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ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/21/2022 12:36 PM Revision 1

JOB DESCRIPTION

fYNOP Monthly Surface Water

JOB NUMBER

410-103501-1

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

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Definitions/Glossary

Client: Groundwater Sciences Corporation
Job ID: 410-103501-1
Project/Site: fYNOP Monthly Surface Water

Qualifiers

GC/MS VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
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

REVISION

The report being provided is a revision of the original report sent on 11/11/2022. The report (revision 1) is being revised due to final report still says preliminary watermark.

Report revision history

Receipt
The samples were received on 10/27/2022 3:34 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C

GC/MS VOA
Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-314355 recovered above the upper control limit for Bromoform. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D_LL: The following analyte(s) recovered outside control limits for the LCS associated with 410-314355:Carbon disulfide . This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

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

Detection Summary

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

Job ID: 410-103501-1

Client Sample ID: HD-COD-SW-6-0/1-0 — Lab Sample ID: 410-103501-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J	5.0	1.0	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-7-0/1-0 — Lab Sample ID: 410-103501-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.7	J	5.0	1.0	ug/L	1		8260D	Total/NA
Chloroform	0.093	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.18	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.20	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-8-0/1-0 — Lab Sample ID: 410-103501-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.4	J	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.19	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.70		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.20	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-9-0/1-0 — Lab Sample ID: 410-103501-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.7	J	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.15	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.28	J	0.50	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-13-0/1-0 — Lab Sample ID: 410-103501-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.10	J	0.50	0.080	ug/L	1		8260D	Total/NA
Acetone	1.6	J	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.21	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.2		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.23	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-15-0/1-0 — Lab Sample ID: 410-103501-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.40	J	0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.15	J	0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.18	J	0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.35	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.3		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	5.5		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	1.6		0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-16-0/1-0 — Lab Sample ID: 410-103501-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.13	J	0.50	0.080	ug/L	1		8260D	Total/NA
Acetone	1.5	J	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.22	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.8		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.22	J	0.50	0.080	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 410-103501-1

Client Sample ID: HD-COD-SW-17-0/1-0 — Lab Sample ID: 410-103501-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	6.2		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	1.2		0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.51		0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.31	J	0.50	0.090	ug/L	1		8260D	Total/NA
Chloromethane	0.11	J	0.50	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	3.0		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	3.7		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	71		5.0	2.0	ug/L	10		8260D	Total/NA

Client Sample ID: HD-COD-SW-26-0/1-0 — Lab Sample ID: 410-103501-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.12	J	0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.49	J	0.50	0.090	ug/L	1		8260D	Total/NA
Tetrachloroethene	3.1		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.16	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-27-0/1-0 — Lab Sample ID: 410-103501-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.5	J	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.23	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.56		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.24	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-28-0/1-0 — Lab Sample ID: 410-103501-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.8	J	5.0	1.0	ug/L	1		8260D	Total/NA
Carbon disulfide	0.11	J *+ cn	1.0	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.17	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.26	J	0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.17	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-29-0/1-0 — Lab Sample ID: 410-103501-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.5	J	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.18	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.49	J	0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.19	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-QC1-0/1-1 — Lab Sample ID: 410-103501-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	6.4		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	1.2		0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.53		0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.31	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	3.0		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	3.8		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	68		5.0	2.0	ug/L	10		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 410-103501-1

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

Lab Sample ID: 410-103501-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.9	J	5.0	1.0	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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

Date Collected: 10/27/22 10:20
Date Received: 10/27/22 15:34

Lab Sample ID: 410-103501-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			11/06/22 13:25	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 13:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			11/06/22 13:25	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 13:25	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			11/06/22 13:25	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 13:25	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			11/06/22 13:25	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			11/06/22 13:25	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			11/06/22 13:25	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			11/06/22 13:25	1
2-Hexanone	ND		5.0	0.10	ug/L			11/06/22 13:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			11/06/22 13:25	1
Acetone	**1.3**	**J**	5.0	1.0	ug/L			11/06/22 13:25	1
Benzene	ND		0.50	0.10	ug/L			11/06/22 13:25	1
Bromochloromethane	ND		0.50	0.080	ug/L			11/06/22 13:25	1
Bromodichloromethane	ND		0.50	0.080	ug/L			11/06/22 13:25	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			11/06/22 13:25	1
Bromomethane	ND		0.50	0.10	ug/L			11/06/22 13:25	1
Carbon disulfide	ND	*+	1.0	0.10	ug/L			11/06/22 13:25	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			11/06/22 13:25	1
Chlorobenzene	ND		0.50	0.070	ug/L			11/06/22 13:25	1
Chloroethane	ND		0.50	0.10	ug/L			11/06/22 13:25	1
Chloroform	ND		0.50	0.090	ug/L			11/06/22 13:25	1
Chloromethane	ND		0.50	0.10	ug/L			11/06/22 13:25	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			11/06/22 13:25	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			11/06/22 13:25	1
Dibromochloromethane	ND		0.50	0.080	ug/L			11/06/22 13:25	1
Ethylbenzene	ND		0.50	0.080	ug/L			11/06/22 13:25	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			11/06/22 13:25	1
Methylene Chloride	ND		0.50	0.10	ug/L			11/06/22 13:25	1
Styrene	ND		0.50	0.070	ug/L			11/06/22 13:25	1
Tetrachloroethene	ND		0.50	0.20	ug/L			11/06/22 13:25	1
Toluene	ND		0.50	0.080	ug/L			11/06/22 13:25	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 13:25	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			11/06/22 13:25	1
Trichloroethene	ND		0.50	0.080	ug/L			11/06/22 13:25	1
Vinyl chloride	ND		0.50	0.10	ug/L			11/06/22 13:25	1
Xylenes, Total	ND		1.0	0.070	ug/L			11/06/22 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*11/06/22 13:25*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/06/22 13:25*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*11/06/22 13:25*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*11/06/22 13:25*	*1*

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

Date Collected: 10/27/22 11:00
Date Received: 10/27/22 15:34

Lab Sample ID: 410-103501-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			11/06/22 13:47	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 13:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			11/06/22 13:47	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 13:47	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			11/06/22 13:47	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 13:47	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			11/06/22 13:47	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			11/06/22 13:47	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			11/06/22 13:47	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			11/06/22 13:47	1
2-Hexanone	ND		5.0	0.10	ug/L			11/06/22 13:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			11/06/22 13:47	1
Acetone	**1.7**	**J**	5.0	1.0	ug/L			11/06/22 13:47	1
Benzene	ND		0.50	0.10	ug/L			11/06/22 13:47	1
Bromochloromethane	ND		0.50	0.080	ug/L			11/06/22 13:47	1
Bromodichloromethane	ND		0.50	0.080	ug/L			11/06/22 13:47	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			11/06/22 13:47	1
Bromomethane	ND		0.50	0.10	ug/L			11/06/22 13:47	1
Carbon disulfide	ND	*+	1.0	0.10	ug/L			11/06/22 13:47	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			11/06/22 13:47	1
Chlorobenzene	ND		0.50	0.070	ug/L			11/06/22 13:47	1
Chloroethane	ND		0.50	0.10	ug/L			11/06/22 13:47	1
Chloroform	**0.093**	**J**	0.50	0.090	ug/L			11/06/22 13:47	1
Chloromethane	ND		0.50	0.10	ug/L			11/06/22 13:47	1
cis-1,2-Dichloroethene	**0.18**	**J**	0.50	0.080	ug/L			11/06/22 13:47	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			11/06/22 13:47	1
Dibromochloromethane	ND		0.50	0.080	ug/L			11/06/22 13:47	1
Ethylbenzene	ND		0.50	0.080	ug/L			11/06/22 13:47	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			11/06/22 13:47	1
Methylene Chloride	ND		0.50	0.10	ug/L			11/06/22 13:47	1
Styrene	ND		0.50	0.070	ug/L			11/06/22 13:47	1
Tetrachloroethene	ND		0.50	0.20	ug/L			11/06/22 13:47	1
Toluene	ND		0.50	0.080	ug/L			11/06/22 13:47	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 13:47	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			11/06/22 13:47	1
Trichloroethene	**0.20**	**J**	0.50	0.080	ug/L			11/06/22 13:47	1
Vinyl chloride	ND		0.50	0.10	ug/L			11/06/22 13:47	1
Xylenes, Total	ND		1.0	0.070	ug/L			11/06/22 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*11/06/22 13:47*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/06/22 13:47*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*11/06/22 13:47*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*11/06/22 13:47*	*1*

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

Date Collected: 10/27/22 09:15
Date Received: 10/27/22 15:34

Lab Sample ID: 410-103501-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			11/06/22 14:09	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 14:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			11/06/22 14:09	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 14:09	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			11/06/22 14:09	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 14:09	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			11/06/22 14:09	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			11/06/22 14:09	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			11/06/22 14:09	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			11/06/22 14:09	1
2-Hexanone	ND		5.0	0.10	ug/L			11/06/22 14:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			11/06/22 14:09	1
Acetone	**1.4**	**J**	5.0	1.0	ug/L			11/06/22 14:09	1
Benzene	ND		0.50	0.10	ug/L			11/06/22 14:09	1
Bromochloromethane	ND		0.50	0.080	ug/L			11/06/22 14:09	1
Bromodichloromethane	ND		0.50	0.080	ug/L			11/06/22 14:09	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			11/06/22 14:09	1
Bromomethane	ND		0.50	0.10	ug/L			11/06/22 14:09	1
Carbon disulfide	ND	*+	1.0	0.10	ug/L			11/06/22 14:09	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			11/06/22 14:09	1
Chlorobenzene	ND		0.50	0.070	ug/L			11/06/22 14:09	1
Chloroethane	ND		0.50	0.10	ug/L			11/06/22 14:09	1
Chloroform	ND		0.50	0.090	ug/L			11/06/22 14:09	1
Chloromethane	ND		0.50	0.10	ug/L			11/06/22 14:09	1
cis-1,2-Dichloroethene	**0.19**	**J**	0.50	0.080	ug/L			11/06/22 14:09	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			11/06/22 14:09	1
Dibromochloromethane	ND		0.50	0.080	ug/L			11/06/22 14:09	1
Ethylbenzene	ND		0.50	0.080	ug/L			11/06/22 14:09	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			11/06/22 14:09	1
Methylene Chloride	ND		0.50	0.10	ug/L			11/06/22 14:09	1
Styrene	ND		0.50	0.070	ug/L			11/06/22 14:09	1
Tetrachloroethene	**0.70**		0.50	0.20	ug/L			11/06/22 14:09	1
Toluene	ND		0.50	0.080	ug/L			11/06/22 14:09	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 14:09	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			11/06/22 14:09	1
Trichloroethene	**0.20**	**J**	0.50	0.080	ug/L			11/06/22 14:09	1
Vinyl chloride	ND		0.50	0.10	ug/L			11/06/22 14:09	1
Xylenes, Total	ND		1.0	0.070	ug/L			11/06/22 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*11/06/22 14:09*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/06/22 14:09*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*11/06/22 14:09*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*11/06/22 14:09*	*1*

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

Date Collected: 10/27/22 12:40
Date Received: 10/27/22 15:34

Lab Sample ID: 410-103501-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			11/06/22 14:31	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 14:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			11/06/22 14:31	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 14:31	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			11/06/22 14:31	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 14:31	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			11/06/22 14:31	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			11/06/22 14:31	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			11/06/22 14:31	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			11/06/22 14:31	1
2-Hexanone	ND		5.0	0.10	ug/L			11/06/22 14:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			11/06/22 14:31	1
Acetone	**2.7**	**J**	5.0	1.0	ug/L			11/06/22 14:31	1
Benzene	ND		0.50	0.10	ug/L			11/06/22 14:31	1
Bromochloromethane	ND		0.50	0.080	ug/L			11/06/22 14:31	1
Bromodichloromethane	ND		0.50	0.080	ug/L			11/06/22 14:31	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			11/06/22 14:31	1
Bromomethane	ND		0.50	0.10	ug/L			11/06/22 14:31	1
Carbon disulfide	ND	*+	1.0	0.10	ug/L			11/06/22 14:31	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			11/06/22 14:31	1
Chlorobenzene	ND		0.50	0.070	ug/L			11/06/22 14:31	1
Chloroethane	ND		0.50	0.10	ug/L			11/06/22 14:31	1
Chloroform	ND		0.50	0.090	ug/L			11/06/22 14:31	1
Chloromethane	ND		0.50	0.10	ug/L			11/06/22 14:31	1
cis-1,2-Dichloroethene	**0.15**	**J**	0.50	0.080	ug/L			11/06/22 14:31	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			11/06/22 14:31	1
Dibromochloromethane	ND		0.50	0.080	ug/L			11/06/22 14:31	1
Ethylbenzene	ND		0.50	0.080	ug/L			11/06/22 14:31	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			11/06/22 14:31	1
Methylene Chloride	ND		0.50	0.10	ug/L			11/06/22 14:31	1
Styrene	ND		0.50	0.070	ug/L			11/06/22 14:31	1
Tetrachloroethene	**0.28**	**J**	0.50	0.20	ug/L			11/06/22 14:31	1
Toluene	ND		0.50	0.080	ug/L			11/06/22 14:31	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 14:31	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			11/06/22 14:31	1
Trichloroethene	ND		0.50	0.080	ug/L			11/06/22 14:31	1
Vinyl chloride	ND		0.50	0.10	ug/L			11/06/22 14:31	1
Xylenes, Total	ND		1.0	0.070	ug/L			11/06/22 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*11/06/22 14:31*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/06/22 14:31*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*11/06/22 14:31*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*11/06/22 14:31*	*1*

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

Date Collected: 10/27/22 09:30
Date Received: 10/27/22 15:34

Lab Sample ID: 410-103501-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			11/06/22 14:53	1
1,1,1-Trichloroethane	**0.10**	**J**	0.50	0.080	ug/L			11/06/22 14:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			11/06/22 14:53	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 14:53	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			11/06/22 14:53	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 14:53	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			11/06/22 14:53	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			11/06/22 14:53	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			11/06/22 14:53	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			11/06/22 14:53	1
2-Hexanone	ND		5.0	0.10	ug/L			11/06/22 14:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			11/06/22 14:53	1
Acetone	**1.6**	**J**	5.0	1.0	ug/L			11/06/22 14:53	1
Benzene	ND		0.50	0.10	ug/L			11/06/22 14:53	1
Bromochloromethane	ND		0.50	0.080	ug/L			11/06/22 14:53	1
Bromodichloromethane	ND		0.50	0.080	ug/L			11/06/22 14:53	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			11/06/22 14:53	1
Bromomethane	ND		0.50	0.10	ug/L			11/06/22 14:53	1
Carbon disulfide	ND	*+	1.0	0.10	ug/L			11/06/22 14:53	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			11/06/22 14:53	1
Chlorobenzene	ND		0.50	0.070	ug/L			11/06/22 14:53	1
Chloroethane	ND		0.50	0.10	ug/L			11/06/22 14:53	1
Chloroform	ND		0.50	0.090	ug/L			11/06/22 14:53	1
Chloromethane	ND		0.50	0.10	ug/L			11/06/22 14:53	1
cis-1,2-Dichloroethene	**0.21**	**J**	0.50	0.080	ug/L			11/06/22 14:53	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			11/06/22 14:53	1
Dibromochloromethane	ND		0.50	0.080	ug/L			11/06/22 14:53	1
Ethylbenzene	ND		0.50	0.080	ug/L			11/06/22 14:53	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			11/06/22 14:53	1
Methylene Chloride	ND		0.50	0.10	ug/L			11/06/22 14:53	1
Styrene	ND		0.50	0.070	ug/L			11/06/22 14:53	1
Tetrachloroethene	**1.2**		0.50	0.20	ug/L			11/06/22 14:53	1
Toluene	ND		0.50	0.080	ug/L			11/06/22 14:53	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 14:53	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			11/06/22 14:53	1
Trichloroethene	**0.23**	**J**	0.50	0.080	ug/L			11/06/22 14:53	1
Vinyl chloride	ND		0.50	0.10	ug/L			11/06/22 14:53	1
Xylenes, Total	ND		1.0	0.070	ug/L			11/06/22 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*11/06/22 14:53*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/06/22 14:53*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*11/06/22 14:53*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*11/06/22 14:53*	*1*

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

Date Collected: 10/27/22 11:25
Date Received: 10/27/22 15:34

Lab Sample ID: 410-103501-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			11/06/22 15:15	1
1,1,1-Trichloroethane	**0.40**	**J**	0.50	0.080	ug/L			11/06/22 15:15	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			11/06/22 15:15	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 15:15	1
1,1-Dichloroethane	**0.15**	**J**	0.50	0.10	ug/L			11/06/22 15:15	1
1,1-Dichloroethene	**0.18**	**J**	0.50	0.10	ug/L			11/06/22 15:15	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			11/06/22 15:15	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			11/06/22 15:15	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			11/06/22 15:15	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			11/06/22 15:15	1
2-Hexanone	ND		5.0	0.10	ug/L			11/06/22 15:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			11/06/22 15:15	1
Acetone	ND		5.0	1.0	ug/L			11/06/22 15:15	1
Benzene	ND		0.50	0.10	ug/L			11/06/22 15:15	1
Bromochloromethane	ND		0.50	0.080	ug/L			11/06/22 15:15	1
Bromodichloromethane	ND		0.50	0.080	ug/L			11/06/22 15:15	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			11/06/22 15:15	1
Bromomethane	ND		0.50	0.10	ug/L			11/06/22 15:15	1
Carbon disulfide	ND	FH *+	1.0	0.10	ug/L			11/06/22 15:15	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			11/06/22 15:15	1
Chlorobenzene	ND		0.50	0.070	ug/L			11/06/22 15:15	1
Chloroethane	ND		0.50	0.10	ug/L			11/06/22 15:15	1
Chloroform	**0.35**	**J**	0.50	0.090	ug/L			11/06/22 15:15	1
Chloromethane	ND		0.50	0.10	ug/L			11/06/22 15:15	1
cis-1,2-Dichloroethene	**2.3**		0.50	0.080	ug/L			11/06/22 15:15	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			11/06/22 15:15	1
Dibromochloromethane	ND		0.50	0.080	ug/L			11/06/22 15:15	1
Ethylbenzene	ND		0.50	0.080	ug/L			11/06/22 15:15	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			11/06/22 15:15	1
Methylene Chloride	ND		0.50	0.10	ug/L			11/06/22 15:15	1
Styrene	ND		0.50	0.070	ug/L			11/06/22 15:15	1
Tetrachloroethene	**5.5**		0.50	0.20	ug/L			11/06/22 15:15	1
Toluene	ND		0.50	0.080	ug/L			11/06/22 15:15	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 15:15	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			11/06/22 15:15	1
Trichloroethene	**1.6**		0.50	0.080	ug/L			11/06/22 15:15	1
Vinyl chloride	ND		0.50	0.10	ug/L			11/06/22 15:15	1
Xylenes, Total	ND		1.0	0.070	ug/L			11/06/22 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*11/06/22 15:15*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/06/22 15:15*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*11/06/22 15:15*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*11/06/22 15:15*	*1*

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

Date Collected: 10/27/22 09:50
Date Received: 10/27/22 15:34

Lab Sample ID: 410-103501-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			11/06/22 16:21	1
1,1,1-Trichloroethane	**0.13**	**J**	0.50	0.080	ug/L			11/06/22 16:21	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			11/06/22 16:21	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 16:21	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			11/06/22 16:21	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 16:21	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			11/06/22 16:21	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			11/06/22 16:21	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			11/06/22 16:21	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			11/06/22 16:21	1
2-Hexanone	ND		5.0	0.10	ug/L			11/06/22 16:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			11/06/22 16:21	1
Acetone	**1.5**	**J**	5.0	1.0	ug/L			11/06/22 16:21	1
Benzene	ND		0.50	0.10	ug/L			11/06/22 16:21	1
Bromochloromethane	ND		0.50	0.080	ug/L			11/06/22 16:21	1
Bromodichloromethane	ND		0.50	0.080	ug/L			11/06/22 16:21	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			11/06/22 16:21	1
Bromomethane	ND		0.50	0.10	ug/L			11/06/22 16:21	1
Carbon disulfide	ND	*+	1.0	0.10	ug/L			11/06/22 16:21	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			11/06/22 16:21	1
Chlorobenzene	ND		0.50	0.070	ug/L			11/06/22 16:21	1
Chloroethane	ND		0.50	0.10	ug/L			11/06/22 16:21	1
Chloroform	ND		0.50	0.090	ug/L			11/06/22 16:21	1
Chloromethane	ND		0.50	0.10	ug/L			11/06/22 16:21	1
cis-1,2-Dichloroethene	**0.22**	**J**	0.50	0.080	ug/L			11/06/22 16:21	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			11/06/22 16:21	1
Dibromochloromethane	ND		0.50	0.080	ug/L			11/06/22 16:21	1
Ethylbenzene	ND		0.50	0.080	ug/L			11/06/22 16:21	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			11/06/22 16:21	1
Methylene Chloride	ND		0.50	0.10	ug/L			11/06/22 16:21	1
Styrene	ND		0.50	0.070	ug/L			11/06/22 16:21	1
Tetrachloroethene	**1.8**		0.50	0.20	ug/L			11/06/22 16:21	1
Toluene	ND		0.50	0.080	ug/L			11/06/22 16:21	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 16:21	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			11/06/22 16:21	1
Trichloroethene	**0.22**	**J**	0.50	0.080	ug/L			11/06/22 16:21	1
Vinyl chloride	ND		0.50	0.10	ug/L			11/06/22 16:21	1
Xylenes, Total	ND		1.0	0.070	ug/L			11/06/22 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*11/06/22 16:21*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/06/22 16:21*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*11/06/22 16:21*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*11/06/22 16:21*	*1*

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

Date Collected: 10/27/22 09:55
Date Received: 10/27/22 15:34

Lab Sample ID: 410-103501-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			11/06/22 16:43	1
1,1,1-Trichloroethane	**6.2**		0.50	0.080	ug/L			11/06/22 16:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			11/06/22 16:43	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 16:43	1
1,1-Dichloroethane	**1.2**		0.50	0.10	ug/L			11/06/22 16:43	1
1,1-Dichloroethene	**0.51**		0.50	0.10	ug/L			11/06/22 16:43	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			11/06/22 16:43	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			11/06/22 16:43	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			11/06/22 16:43	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			11/06/22 16:43	1
2-Hexanone	ND		5.0	0.10	ug/L			11/06/22 16:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			11/06/22 16:43	1
Acetone	ND		5.0	1.0	ug/L			11/06/22 16:43	1
Benzene	ND		0.50	0.10	ug/L			11/06/22 16:43	1
Bromochloromethane	ND		0.50	0.080	ug/L			11/06/22 16:43	1
Bromodichloromethane	ND		0.50	0.080	ug/L			11/06/22 16:43	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			11/06/22 16:43	1
Bromomethane	ND		0.50	0.10	ug/L			11/06/22 16:43	1
Carbon disulfide	ND	*+	1.0	0.10	ug/L			11/06/22 16:43	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			11/06/22 16:43	1
Chlorobenzene	ND		0.50	0.070	ug/L			11/06/22 16:43	1
Chloroethane	ND		0.50	0.10	ug/L			11/06/22 16:43	1
Chloroform	**0.31**	**J**	0.50	0.090	ug/L			11/06/22 16:43	1
Chloromethane	**0.11**	**J**	0.50	0.10	ug/L			11/06/22 16:43	1
cis-1,2-Dichloroethene	**3.0**		0.50	0.080	ug/L			11/06/22 16:43	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			11/06/22 16:43	1
Dibromochloromethane	ND		0.50	0.080	ug/L			11/06/22 16:43	1
Ethylbenzene	ND		0.50	0.080	ug/L			11/06/22 16:43	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			11/06/22 16:43	1
Methylene Chloride	ND		0.50	0.10	ug/L			11/06/22 16:43	1
Styrene	ND		0.50	0.070	ug/L			11/06/22 16:43	1
Toluene	ND		0.50	0.080	ug/L			11/06/22 16:43	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 16:43	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			11/06/22 16:43	1
Trichloroethene	**3.7**		0.50	0.080	ug/L			11/06/22 16:43	1
Vinyl chloride	ND		0.50	0.10	ug/L			11/06/22 16:43	1
Xylenes, Total	ND		1.0	0.070	ug/L			11/06/22 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*11/06/22 16:43*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/06/22 16:43*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*11/06/22 16:43*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*11/06/22 16:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**71**		5.0	2.0	ug/L			11/08/22 18:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*11/08/22 18:24*	*10*

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

Lab Sample ID: 410-103501-8

Date Collected: 10/27/22 09:55
Matrix: Water
Date Received: 10/27/22 15:34

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*11/08/22 18:24*	*10*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*11/08/22 18:24*	*10*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/08/22 18:24*	*10*

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

Lab Sample ID: 410-103501-9

Date Collected: 10/27/22 10:40
Matrix: Water
Date Received: 10/27/22 15:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			11/06/22 17:05	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 17:05	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			11/06/22 17:05	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 17:05	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			11/06/22 17:05	1
1,1-Dichloroethene	**0.12**	**J**	0.50	0.10	ug/L			11/06/22 17:05	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			11/06/22 17:05	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			11/06/22 17:05	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			11/06/22 17:05	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			11/06/22 17:05	1
2-Hexanone	ND		5.0	0.10	ug/L			11/06/22 17:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			11/06/22 17:05	1
Acetone	ND		5.0	1.0	ug/L			11/06/22 17:05	1
Benzene	ND		0.50	0.10	ug/L			11/06/22 17:05	1
Bromochloromethane	ND		0.50	0.080	ug/L			11/06/22 17:05	1
Bromodichloromethane	ND		0.50	0.080	ug/L			11/06/22 17:05	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			11/06/22 17:05	1
Bromomethane	ND		0.50	0.10	ug/L			11/06/22 17:05	1
Carbon disulfide	ND	*+	1.0	0.10	ug/L			11/06/22 17:05	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			11/06/22 17:05	1
Chlorobenzene	ND		0.50	0.070	ug/L			11/06/22 17:05	1
Chloroethane	ND		0.50	0.10	ug/L			11/06/22 17:05	1
Chloroform	**0.49**	**J**	0.50	0.090	ug/L			11/06/22 17:05	1
Chloromethane	ND		0.50	0.10	ug/L			11/06/22 17:05	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			11/06/22 17:05	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			11/06/22 17:05	1
Dibromochloromethane	ND		0.50	0.080	ug/L			11/06/22 17:05	1
Ethylbenzene	ND		0.50	0.080	ug/L			11/06/22 17:05	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			11/06/22 17:05	1
Methylene Chloride	ND		0.50	0.10	ug/L			11/06/22 17:05	1
Styrene	ND		0.50	0.070	ug/L			11/06/22 17:05	1
Tetrachloroethene	**3.1**		0.50	0.20	ug/L			11/06/22 17:05	1
Toluene	ND		0.50	0.080	ug/L			11/06/22 17:05	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 17:05	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			11/06/22 17:05	1
Trichloroethene	**0.16**	**J**	0.50	0.080	ug/L			11/06/22 17:05	1
Vinyl chloride	ND		0.50	0.10	ug/L			11/06/22 17:05	1
Xylenes, Total	ND		1.0	0.070	ug/L			11/06/22 17:05	1

Client Sample ID: HD-COD-SW-26-0/1-0
Lab Sample ID: 410-103501-9

Date Collected: 10/27/22 10:40
Matrix: Water
Date Received: 10/27/22 15:34

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		11/06/22 17:05	1
4-Bromofluorobenzene (Surr)	96		80 - 120		11/06/22 17:05	1
Dibromofluoromethane (Surr)	103		80 - 120		11/06/22 17:05	1
Toluene-d8 (Surr)	100		80 - 120		11/06/22 17:05	1

Client Sample ID: HD-COD-SW-27-0/1-0
Lab Sample ID: 410-103501-10

Date Collected: 10/27/22 11:10
Matrix: Water
Date Received: 10/27/22 15:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			11/06/22 17:27	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 17:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			11/06/22 17:27	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 17:27	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			11/06/22 17:27	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 17:27	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			11/06/22 17:27	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			11/06/22 17:27	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			11/06/22 17:27	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			11/06/22 17:27	1
2-Hexanone	ND		5.0	0.10	ug/L			11/06/22 17:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			11/06/22 17:27	1
Acetone	**2.5**	**J**	5.0	1.0	ug/L			11/06/22 17:27	1
Benzene	ND		0.50	0.10	ug/L			11/06/22 17:27	1
Bromochloromethane	ND		0.50	0.080	ug/L			11/06/22 17:27	1
Bromodichloromethane	ND		0.50	0.080	ug/L			11/06/22 17:27	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			11/06/22 17:27	1
Bromomethane	ND		0.50	0.10	ug/L			11/06/22 17:27	1
Carbon disulfide	ND	*+	1.0	0.10	ug/L			11/06/22 17:27	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			11/06/22 17:27	1
Chlorobenzene	ND		0.50	0.070	ug/L			11/06/22 17:27	1
Chloroethane	ND		0.50	0.10	ug/L			11/06/22 17:27	1
Chloroform	ND		0.50	0.090	ug/L			11/06/22 17:27	1
Chloromethane	ND		0.50	0.10	ug/L			11/06/22 17:27	1
cis-1,2-Dichloroethene	**0.23**	**J**	0.50	0.080	ug/L			11/06/22 17:27	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			11/06/22 17:27	1
Dibromochloromethane	ND		0.50	0.080	ug/L			11/06/22 17:27	1
Ethylbenzene	ND		0.50	0.080	ug/L			11/06/22 17:27	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			11/06/22 17:27	1
Methylene Chloride	ND		0.50	0.10	ug/L			11/06/22 17:27	1
Styrene	ND		0.50	0.070	ug/L			11/06/22 17:27	1
Tetrachloroethene	**0.56**		0.50	0.20	ug/L			11/06/22 17:27	1
Toluene	ND		0.50	0.080	ug/L			11/06/22 17:27	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 17:27	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			11/06/22 17:27	1
Trichloroethene	**0.24**	**J**	0.50	0.080	ug/L			11/06/22 17:27	1
Vinyl chloride	ND		0.50	0.10	ug/L			11/06/22 17:27	1
Xylenes, Total	ND		1.0	0.070	ug/L			11/06/22 17:27	1

Client Sample ID: HD-COD-SW-27-0/1-0
Lab Sample ID: 410-103501-10

Date Collected: 10/27/22 11:10
Matrix: Water
Date Received: 10/27/22 15:34

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		11/06/22 17:27	1
4-Bromofluorobenzene (Surr)	96		80 - 120		11/06/22 17:27	1
Dibromofluoromethane (Surr)	103		80 - 120		11/06/22 17:27	1
Toluene-d8 (Surr)	101		80 - 120		11/06/22 17:27	1

Client Sample ID: HD-COD-SW-28-0/1-0
Lab Sample ID: 410-103501-11

Date Collected: 10/27/22 13:00
Matrix: Water
Date Received: 10/27/22 15:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			11/06/22 17:49	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 17:49	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			11/06/22 17:49	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 17:49	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			11/06/22 17:49	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 17:49	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			11/06/22 17:49	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			11/06/22 17:49	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			11/06/22 17:49	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			11/06/22 17:49	1
2-Hexanone	ND		5.0	0.10	ug/L			11/06/22 17:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			11/06/22 17:49	1
Acetone	**2.8**	**J**	5.0	1.0	ug/L			11/06/22 17:49	1
Benzene	ND		0.50	0.10	ug/L			11/06/22 17:49	1
Bromochloromethane	ND		0.50	0.080	ug/L			11/06/22 17:49	1
Bromodichloromethane	ND		0.50	0.080	ug/L			11/06/22 17:49	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			11/06/22 17:49	1
Bromomethane	ND		0.50	0.10	ug/L			11/06/22 17:49	1
Carbon disulfide	**0.11**	**J *+ cn**	1.0	0.10	ug/L			11/06/22 17:49	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			11/06/22 17:49	1
Chlorobenzene	ND		0.50	0.070	ug/L			11/06/22 17:49	1
Chloroethane	ND		0.50	0.10	ug/L			11/06/22 17:49	1
Chloroform	ND		0.50	0.090	ug/L			11/06/22 17:49	1
Chloromethane	ND		0.50	0.10	ug/L			11/06/22 17:49	1
cis-1,2-Dichloroethene	**0.17**	**J**	0.50	0.080	ug/L			11/06/22 17:49	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			11/06/22 17:49	1
Dibromochloromethane	ND		0.50	0.080	ug/L			11/06/22 17:49	1
Ethylbenzene	ND		0.50	0.080	ug/L			11/06/22 17:49	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			11/06/22 17:49	1
Methylene Chloride	ND		0.50	0.10	ug/L			11/06/22 17:49	1
Styrene	ND		0.50	0.070	ug/L			11/06/22 17:49	1
Tetrachloroethene	**0.26**	**J**	0.50	0.20	ug/L			11/06/22 17:49	1
Toluene	ND		0.50	0.080	ug/L			11/06/22 17:49	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 17:49	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			11/06/22 17:49	1
Trichloroethene	**0.17**	**J**	0.50	0.080	ug/L			11/06/22 17:49	1
Vinyl chloride	ND		0.50	0.10	ug/L			11/06/22 17:49	1
Xylenes, Total	ND		1.0	0.070	ug/L			11/06/22 17:49	1

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

Lab Sample ID: 410-103501-11

Date Collected: 10/27/22 13:00
Matrix: Water
Date Received: 10/27/22 15:34

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*11/06/22 17:49*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/06/22 17:49*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*11/06/22 17:49*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*11/06/22 17:49*	*1*

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

Lab Sample ID: 410-103501-12

Date Collected: 10/27/22 09:00
Matrix: Water
Date Received: 10/27/22 15:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			11/06/22 18:11	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 18:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			11/06/22 18:11	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 18:11	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			11/06/22 18:11	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 18:11	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			11/06/22 18:11	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			11/06/22 18:11	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			11/06/22 18:11	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			11/06/22 18:11	1
2-Hexanone	ND		5.0	0.10	ug/L			11/06/22 18:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			11/06/22 18:11	1
Acetone	**1.5**	**J**	5.0	1.0	ug/L			11/06/22 18:11	1
Benzene	ND		0.50	0.10	ug/L			11/06/22 18:11	1
Bromochloromethane	ND		0.50	0.080	ug/L			11/06/22 18:11	1
Bromodichloromethane	ND		0.50	0.080	ug/L			11/06/22 18:11	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			11/06/22 18:11	1
Bromomethane	ND		0.50	0.10	ug/L			11/06/22 18:11	1
Carbon disulfide	ND	*+	1.0	0.10	ug/L			11/06/22 18:11	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			11/06/22 18:11	1
Chlorobenzene	ND		0.50	0.070	ug/L			11/06/22 18:11	1
Chloroethane	ND		0.50	0.10	ug/L			11/06/22 18:11	1
Chloroform	ND		0.50	0.090	ug/L			11/06/22 18:11	1
Chloromethane	ND		0.50	0.10	ug/L			11/06/22 18:11	1
cis-1,2-Dichloroethene	**0.18**	**J**	0.50	0.080	ug/L			11/06/22 18:11	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			11/06/22 18:11	1
Dibromochloromethane	ND		0.50	0.080	ug/L			11/06/22 18:11	1
Ethylbenzene	ND		0.50	0.080	ug/L			11/06/22 18:11	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			11/06/22 18:11	1
Methylene Chloride	ND		0.50	0.10	ug/L			11/06/22 18:11	1
Styrene	ND		0.50	0.070	ug/L			11/06/22 18:11	1
Tetrachloroethene	**0.49**	**J**	0.50	0.20	ug/L			11/06/22 18:11	1
Toluene	ND		0.50	0.080	ug/L			11/06/22 18:11	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 18:11	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			11/06/22 18:11	1
Trichloroethene	**0.19**	**J**	0.50	0.080	ug/L			11/06/22 18:11	1
Vinyl chloride	ND		0.50	0.10	ug/L			11/06/22 18:11	1
Xylenes, Total	ND		1.0	0.070	ug/L			11/06/22 18:11	1

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

Lab Sample ID: 410-103501-12

Date Collected: 10/27/22 09:00
Matrix: Water
Date Received: 10/27/22 15:34

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		11/06/22 18:11	1
4-Bromofluorobenzene (Surr)	96		80 - 120		11/06/22 18:11	1
Dibromofluoromethane (Surr)	104		80 - 120		11/06/22 18:11	1
Toluene-d8 (Surr)	101		80 - 120		11/06/22 18:11	1

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

Lab Sample ID: 410-103501-13

Date Collected: 10/27/22 10:05
Matrix: Water
Date Received: 10/27/22 15:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			11/06/22 18:33	1
1,1,1-Trichloroethane	**6.4**		0.50	0.080	ug/L			11/06/22 18:33	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			11/06/22 18:33	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 18:33	1
1,1-Dichloroethane	**1.2**		0.50	0.10	ug/L			11/06/22 18:33	1
1,1-Dichloroethene	**0.53**		0.50	0.10	ug/L			11/06/22 18:33	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			11/06/22 18:33	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			11/06/22 18:33	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			11/06/22 18:33	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			11/06/22 18:33	1
2-Hexanone	ND		5.0	0.10	ug/L			11/06/22 18:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			11/06/22 18:33	1
Acetone	ND		5.0	1.0	ug/L			11/06/22 18:33	1
Benzene	ND		0.50	0.10	ug/L			11/06/22 18:33	1
Bromochloromethane	ND		0.50	0.080	ug/L			11/06/22 18:33	1
Bromodichloromethane	ND		0.50	0.080	ug/L			11/06/22 18:33	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			11/06/22 18:33	1
Bromomethane	ND		0.50	0.10	ug/L			11/06/22 18:33	1
Carbon disulfide	ND	*+	1.0	0.10	ug/L			11/06/22 18:33	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			11/06/22 18:33	1
Chlorobenzene	ND		0.50	0.070	ug/L			11/06/22 18:33	1
Chloroethane	ND		0.50	0.10	ug/L			11/06/22 18:33	1
Chloroform	**0.31**	**J**	0.50	0.090	ug/L			11/06/22 18:33	1
Chloromethane	ND		0.50	0.10	ug/L			11/06/22 18:33	1
cis-1,2-Dichloroethene	**3.0**		0.50	0.080	ug/L			11/06/22 18:33	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			11/06/22 18:33	1
Dibromochloromethane	ND		0.50	0.080	ug/L			11/06/22 18:33	1
Ethylbenzene	ND		0.50	0.080	ug/L			11/06/22 18:33	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			11/06/22 18:33	1
Methylene Chloride	ND		0.50	0.10	ug/L			11/06/22 18:33	1
Styrene	ND		0.50	0.070	ug/L			11/06/22 18:33	1
Toluene	ND		0.50	0.080	ug/L			11/06/22 18:33	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 18:33	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			11/06/22 18:33	1
Trichloroethene	**3.8**		0.50	0.080	ug/L			11/06/22 18:33	1
Vinyl chloride	ND		0.50	0.10	ug/L			11/06/22 18:33	1
Xylenes, Total	ND		1.0	0.070	ug/L			11/06/22 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		11/06/22 18:33	1

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

Date Collected: 10/27/22 10:05
Date Received: 10/27/22 15:34

Lab Sample ID: 410-103501-13

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/06/22 18:33*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*11/06/22 18:33*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*11/06/22 18:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**68**		5.0	2.0	ug/L			11/08/22 18:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*11/08/22 18:45*	*10*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/08/22 18:45*	*10*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*11/08/22 18:45*	*10*
Toluene-d8 (Surr)	*98*		*80 - 120*		*11/08/22 18:45*	*10*

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

Date Collected: 10/27/22 00:00
Date Received: 10/27/22 15:34

Lab Sample ID: 410-103501-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			11/06/22 13:03	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 13:03	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			11/06/22 13:03	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 13:03	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			11/06/22 13:03	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 13:03	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			11/06/22 13:03	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			11/06/22 13:03	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			11/06/22 13:03	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			11/06/22 13:03	1
2-Hexanone	ND		5.0	0.10	ug/L			11/06/22 13:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			11/06/22 13:03	1
Acetone	**1.9**	**J**	5.0	1.0	ug/L			11/06/22 13:03	1
Benzene	ND		0.50	0.10	ug/L			11/06/22 13:03	1
Bromochloromethane	ND		0.50	0.080	ug/L			11/06/22 13:03	1
Bromodichloromethane	ND		0.50	0.080	ug/L			11/06/22 13:03	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			11/06/22 13:03	1
Bromomethane	ND		0.50	0.10	ug/L			11/06/22 13:03	1
Carbon disulfide	ND	*+	1.0	0.10	ug/L			11/06/22 13:03	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			11/06/22 13:03	1
Chlorobenzene	ND		0.50	0.070	ug/L			11/06/22 13:03	1
Chloroethane	ND		0.50	0.10	ug/L			11/06/22 13:03	1
Chloroform	ND		0.50	0.090	ug/L			11/06/22 13:03	1
Chloromethane	ND		0.50	0.10	ug/L			11/06/22 13:03	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			11/06/22 13:03	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			11/06/22 13:03	1
Dibromochloromethane	ND		0.50	0.080	ug/L			11/06/22 13:03	1
Ethylbenzene	ND		0.50	0.080	ug/L			11/06/22 13:03	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			11/06/22 13:03	1
Methylene Chloride	ND		0.50	0.10	ug/L			11/06/22 13:03	1

Client Sample ID: HD-QC1-0/1-2
Date Collected: 10/27/22 00:00
Date Received: 10/27/22 15:34

Lab Sample ID: 410-103501-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.50	0.070	ug/L			11/06/22 13:03	1
Tetrachloroethene	ND		0.50	0.20	ug/L			11/06/22 13:03	1
Toluene	ND		0.50	0.080	ug/L			11/06/22 13:03	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 13:03	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			11/06/22 13:03	1
Trichloroethene	ND		0.50	0.080	ug/L			11/06/22 13:03	1
Vinyl chloride	ND		0.50	0.10	ug/L			11/06/22 13:03	1
Xylenes, Total	ND		1.0	0.070	ug/L			11/06/22 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*11/06/22 13:03*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/06/22 13:03*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*11/06/22 13:03*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*11/06/22 13:03*	*1*

Default Detection Limits

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

Job ID: 410-103501-1

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

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

Surrogate Summary

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

Job ID: 410-103501-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-103501-1	HD-COD-SW-6-0/1-0	104	96	103	101
410-103501-2	HD-COD-SW-7-0/1-0	106	96	103	102
410-103501-3	HD-COD-SW-8-0/1-0	106	96	104	102
410-103501-4	HD-COD-SW-9-0/1-0	105	96	103	102
410-103501-5	HD-COD-SW-13-0/1-0	106	96	104	101
410-103501-6	HD-COD-SW-15-0/1-0	105	95	103	101
410-103501-6 MS	HD-COD-SW-15-0/1-0MS	102	100	101	102
410-103501-6 MSD	HD-COD-SW-15-0/1-0MSD	101	101	100	102
410-103501-7	HD-COD-SW-16-0/1-0	106	96	103	100
410-103501-8	HD-COD-SW-17-0/1-0	107	95	104	98
410-103501-8 - DL	HD-COD-SW-17-0/1-0	103	94	97	96
410-103501-9	HD-COD-SW-26-0/1-0	106	96	103	100
410-103501-10	HD-COD-SW-27-0/1-0	107	96	103	101
410-103501-11	HD-COD-SW-28-0/1-0	107	95	103	102
410-103501-12	HD-COD-SW-29-0/1-0	105	96	104	101
410-103501-13	HD-QC1-0/1-1	105	95	104	98
410-103501-13 - DL	HD-QC1-0/1-1	107	95	100	98
410-103501-14	HD-QC1-0/1-2	107	96	102	100
LCS 410-314355/4	Lab Control Sample	103	99	100	102
LCS 410-315144/5	Lab Control Sample	104	97	96	99
LCSD 410-315144/6	Lab Control Sample Dup	106	97	99	99
MB 410-314355/6	Method Blank	105	96	103	101
MB 410-315144/10	Method Blank	105	94	98	97

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 410-314355/6
Matrix: Water
Analysis Batch: 314355

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			11/06/22 12:37	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 12:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			11/06/22 12:37	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			11/06/22 12:37	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			11/06/22 12:37	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 12:37	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			11/06/22 12:37	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			11/06/22 12:37	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			11/06/22 12:37	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			11/06/22 12:37	1
2-Hexanone	ND		5.0	0.10	ug/L			11/06/22 12:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			11/06/22 12:37	1
Acetone	ND		5.0	1.0	ug/L			11/06/22 12:37	1
Benzene	ND		0.50	0.10	ug/L			11/06/22 12:37	1
Bromochloromethane	ND		0.50	0.080	ug/L			11/06/22 12:37	1
Bromodichloromethane	ND		0.50	0.080	ug/L			11/06/22 12:37	1
Bromoform	ND		1.0	0.30	ug/L			11/06/22 12:37	1
Bromomethane	ND		0.50	0.10	ug/L			11/06/22 12:37	1
Carbon disulfide	ND		1.0	0.10	ug/L			11/06/22 12:37	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			11/06/22 12:37	1
Chlorobenzene	ND		0.50	0.070	ug/L			11/06/22 12:37	1
Chloroethane	ND		0.50	0.10	ug/L			11/06/22 12:37	1
Chloroform	ND		0.50	0.090	ug/L			11/06/22 12:37	1
Chloromethane	ND		0.50	0.10	ug/L			11/06/22 12:37	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			11/06/22 12:37	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			11/06/22 12:37	1
Dibromochloromethane	ND		0.50	0.080	ug/L			11/06/22 12:37	1
Ethylbenzene	ND		0.50	0.080	ug/L			11/06/22 12:37	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			11/06/22 12:37	1
Methylene Chloride	ND		0.50	0.10	ug/L			11/06/22 12:37	1
Styrene	ND		0.50	0.070	ug/L			11/06/22 12:37	1
Tetrachloroethene	ND		0.50	0.20	ug/L			11/06/22 12:37	1
Toluene	ND		0.50	0.080	ug/L			11/06/22 12:37	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			11/06/22 12:37	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			11/06/22 12:37	1
Trichloroethene	ND		0.50	0.080	ug/L			11/06/22 12:37	1
Vinyl chloride	ND		0.50	0.10	ug/L			11/06/22 12:37	1
Xylenes, Total	ND		1.0	0.070	ug/L			11/06/22 12:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*11/06/22 12:37*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/06/22 12:37*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*11/06/22 12:37*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*11/06/22 12:37*	*1*

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

Lab Sample ID: LCS 410-314355/4
Matrix: Water
Analysis Batch: 314355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	5.00	5.46		ug/L		109	71 - 134
1,1,1-Trichloroethane	5.00	5.13		ug/L		103	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.44		ug/L		109	75 - 123
1,1,2-Trichloroethane	5.00	5.29		ug/L		106	80 - 120
1,1-Dichloroethane	5.00	5.08		ug/L		102	74 - 120
1,1-Dichloroethene	5.00	5.11		ug/L		102	80 - 131
1,2-Dibromoethane (EDB)	5.00	5.09		ug/L		102	80 - 120
1,2-Dichloroethane	5.00	4.69		ug/L		94	69 - 122
1,2-Dichloropropane	5.00	5.29		ug/L		106	80 - 120
2-Butanone (MEK)	62.5	65.5		ug/L		105	59 - 141
2-Hexanone	62.5	62.8		ug/L		100	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	62.4		ug/L		100	55 - 140
Acetone	62.5	60.4		ug/L		97	60 - 146
Benzene	5.00	5.18		ug/L		104	80 - 120
Bromochloromethane	5.00	5.16		ug/L		103	80 - 120
Bromodichloromethane	5.00	5.49		ug/L		110	73 - 124
Bromoform	5.00	6.68		ug/L		134	49 - 144
Bromomethane	5.00	4.18		ug/L		84	60 - 136
Carbon disulfide	5.00	6.80	*+	ug/L		136	67 - 130
Carbon tetrachloride	5.00	5.42		ug/L		108	64 - 141
Chlorobenzene	5.00	4.96		ug/L		99	80 - 120
Chloroethane	5.00	4.60		ug/L		92	63 - 120
Chloroform	5.00	5.08		ug/L		102	80 - 120
Chloromethane	5.00	4.63		ug/L		93	56 - 124
cis-1,2-Dichloroethene	5.00	5.19		ug/L		104	80 - 122
cis-1,3-Dichloropropene	5.00	5.30		ug/L		106	67 - 121
Dibromochloromethane	5.00	5.91		ug/L		118	64 - 138
Ethylbenzene	5.00	5.07		ug/L		101	80 - 120
Methyl tert-butyl ether	5.00	5.06		ug/L		101	69 - 120
Methylene Chloride	5.00	5.23		ug/L		105	80 - 120
Styrene	5.00	4.94		ug/L		99	80 - 120
Tetrachloroethene	5.00	4.86		ug/L		97	80 - 120
Toluene	5.00	5.08		ug/L		102	80 - 120
trans-1,2-Dichloroethene	5.00	5.02		ug/L		100	80 - 122
trans-1,3-Dichloropropene	5.00	5.76		ug/L		115	61 - 129
Trichloroethene	5.00	4.88		ug/L		98	80 - 120
Vinyl chloride	5.00	4.42		ug/L		88	60 - 125
Xylenes, Total	15.0	15.2		ug/L		101	80 - 120

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

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

Lab Sample ID: 410-103501-6 MS
Matrix: Water
Analysis Batch: 314355

Client Sample ID: HD-COD-SW-15-0/1-0MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		5.00	6.08		ug/L		122	71 - 134
1,1,1-Trichloroethane	0.40	J	5.00	6.33		ug/L		118	78 - 126
1,1,2,2-Tetrachloroethane	ND		5.00	5.74		ug/L		115	75 - 123
1,1,2-Trichloroethane	ND		5.00	5.77		ug/L		115	80 - 120
1,1-Dichloroethane	0.15	J	5.00	5.88		ug/L		114	74 - 120
1,1-Dichloroethene	0.18	J	5.00	6.35		ug/L		123	80 - 131
1,2-Dibromoethane (EDB)	ND		5.00	5.57		ug/L		111	80 - 120
1,2-Dichloroethane	ND		5.00	5.32		ug/L		106	69 - 122
1,2-Dichloropropane	ND		5.00	5.96		ug/L		119	80 - 120
2-Butanone (MEK)	ND		62.6	64.4		ug/L		103	59 - 141
2-Hexanone	ND		62.6	61.2		ug/L		98	52 - 140
4-Methyl-2-pentanone (MIBK)	ND		62.6	60.5		ug/L		97	55 - 140
Acetone	ND		62.6	66.7		ug/L		107	60 - 146
Benzene	ND		5.00	5.89		ug/L		118	80 - 120
Bromochloromethane	ND		5.00	5.69		ug/L		114	80 - 120
Bromodichloromethane	ND		5.00	6.15		ug/L		123	73 - 124
Bromoform	ND	^c cn	5.00	6.98		ug/L		140	49 - 144
Bromomethane	ND		5.00	4.64		ug/L		93	60 - 136
Carbon disulfide	ND	FH *+	5.00	8.15	FH	ug/L		163	67 - 130
Carbon tetrachloride	ND		5.00	6.34		ug/L		127	64 - 141
Chlorobenzene	ND		5.00	5.61		ug/L		112	80 - 120
Chloroethane	ND		5.00	5.22		ug/L		104	63 - 120
Chloroform	0.35	J	5.00	6.03		ug/L		113	80 - 120
Chloromethane	ND		5.00	5.18		ug/L		104	80 - 120
cis-1,2-Dichloroethene	2.3		5.00	8.30		ug/L		120	80 - 122
cis-1,3-Dichloropropene	ND		5.00	5.78		ug/L		116	67 - 121
Dibromochloromethane	ND		5.00	6.44		ug/L		129	64 - 138
Ethylbenzene	ND		5.00	5.82		ug/L		116	80 - 120
Methyl tert-butyl ether	ND		5.00	5.56		ug/L		111	69 - 120
Methylene Chloride	ND		5.00	5.99		ug/L		120	80 - 120
Styrene	ND		5.00	5.60		ug/L		112	80 - 120
Tetrachloroethene	5.5		5.00	11.1		ug/L		112	80 - 120
Toluene	ND		5.00	5.81		ug/L		116	80 - 120
trans-1,2-Dichloroethene	ND		5.00	5.84		ug/L		117	80 - 122
trans-1,3-Dichloropropene	ND		5.00	6.24		ug/L		125	61 - 129
Trichloroethene	1.6		5.00	7.32		ug/L		113	80 - 120
Vinyl chloride	ND		5.00	5.07		ug/L		101	60 - 125
Xylenes, Total	ND		15.0	17.1		ug/L		114	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*

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

Lab Sample ID: 410-103501-6 MSD
Matrix: Water
Analysis Batch: 314355

Client Sample ID: HD-COD-SW-15-0/1-0MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		5.00	6.03		ug/L		120	71 - 134	1	30
1,1,1-Trichloroethane	0.40	J	5.00	6.21		ug/L		116	78 - 126	2	30
1,1,2,2-Tetrachloroethane	ND		5.00	5.66		ug/L		113	75 - 123	1	30
1,1,2-Trichloroethane	ND		5.00	5.67		ug/L		113	80 - 120	2	30
1,1-Dichloroethane	0.15	J	5.00	5.90		ug/L		115	74 - 120	0	30
1,1-Dichloroethene	0.18	J	5.00	6.19		ug/L		120	80 - 131	3	30
1,2-Dibromoethane (EDB)	ND		5.00	5.53		ug/L		110	80 - 120	1	30
1,2-Dichloroethane	ND		5.00	5.11		ug/L		102	69 - 122	4	30
1,2-Dichloropropane	ND		5.00	5.81		ug/L		116	80 - 120	2	30
2-Butanone (MEK)	ND		62.6	70.7		ug/L		113	59 - 141	9	30
2-Hexanone	ND		62.6	65.7		ug/L		105	52 - 140	7	30
4-Methyl-2-pentanone (MIBK)	ND		62.6	65.2		ug/L		104	55 - 140	8	30
Acetone	ND		62.6	71.7		ug/L		115	60 - 146	7	30
Benzene	ND		5.00	5.81		ug/L		116	80 - 120	1	30
Bromochloromethane	ND		5.00	5.69		ug/L		114	80 - 120	0	30
Bromodichloromethane	ND		5.00	6.01		ug/L		120	73 - 124	2	30
Bromoform	ND	^c cn	5.00	6.97		ug/L		139	49 - 144	0	30
Bromomethane	ND		5.00	4.70		ug/L		94	60 - 136	1	30
Carbon disulfide	ND	FH *+	5.00	7.97	FH	ug/L		159	67 - 130	2	30
Carbon tetrachloride	ND		5.00	6.24		ug/L		125	64 - 141	1	30
Chlorobenzene	ND		5.00	5.50		ug/L		110	80 - 120	2	30
Chloroethane	ND		5.00	5.26		ug/L		105	63 - 120	1	30
Chloroform	0.35	J	5.00	6.00		ug/L		113	80 - 120	1	30
Chloromethane	ND		5.00	5.17		ug/L		103	80 - 120	0	30
cis-1,2-Dichloroethene	2.3		5.00	8.24		ug/L		118	80 - 122	1	30
cis-1,3-Dichloropropene	ND		5.00	5.68		ug/L		114	67 - 121	2	30
Dibromochloromethane	ND		5.00	6.33		ug/L		126	64 - 138	2	30
Ethylbenzene	ND		5.00	5.72		ug/L		114	80 - 120	2	30
Methyl tert-butyl ether	ND		5.00	5.57		ug/L		111	69 - 120	0	30
Methylene Chloride	ND		5.00	5.86		ug/L		117	80 - 120	2	30
Styrene	ND		5.00	5.48		ug/L		110	80 - 120	2	30
Tetrachloroethene	5.5		5.00	11.0		ug/L		111	80 - 120	1	30
Toluene	ND		5.00	5.72		ug/L		114	80 - 120	2	30
trans-1,2-Dichloroethene	ND		5.00	5.71		ug/L		114	80 - 122	2	30
trans-1,3-Dichloropropene	ND		5.00	6.11		ug/L		122	61 - 129	2	30
Trichloroethene	1.6		5.00	7.20		ug/L		111	80 - 120	2	30
Vinyl chloride	ND		5.00	5.03		ug/L		101	60 - 125	1	30
Xylenes, Total	ND		15.0	16.8		ug/L		112	80 - 120	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*

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

Lab Sample ID: MB 410-315144/10
Matrix: Water
Analysis Batch: 315144

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			11/08/22 13:48	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			11/08/22 13:48	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			11/08/22 13:48	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			11/08/22 13:48	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			11/08/22 13:48	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			11/08/22 13:48	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			11/08/22 13:48	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			11/08/22 13:48	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			11/08/22 13:48	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			11/08/22 13:48	1
2-Hexanone	ND		5.0	0.10	ug/L			11/08/22 13:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			11/08/22 13:48	1
Acetone	ND		5.0	1.0	ug/L			11/08/22 13:48	1
Benzene	ND		0.50	0.10	ug/L			11/08/22 13:48	1
Bromochloromethane	ND		0.50	0.080	ug/L			11/08/22 13:48	1
Bromodichloromethane	ND		0.50	0.080	ug/L			11/08/22 13:48	1
Bromoform	ND		1.0	0.30	ug/L			11/08/22 13:48	1
Bromomethane	ND		0.50	0.10	ug/L			11/08/22 13:48	1
Carbon disulfide	ND		1.0	0.10	ug/L			11/08/22 13:48	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			11/08/22 13:48	1
Chlorobenzene	ND		0.50	0.070	ug/L			11/08/22 13:48	1
Chloroethane	ND		0.50	0.10	ug/L			11/08/22 13:48	1
Chloroform	ND		0.50	0.090	ug/L			11/08/22 13:48	1
Chloromethane	ND		0.50	0.10	ug/L			11/08/22 13:48	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			11/08/22 13:48	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			11/08/22 13:48	1
Dibromochloromethane	ND		0.50	0.080	ug/L			11/08/22 13:48	1
Ethylbenzene	ND		0.50	0.080	ug/L			11/08/22 13:48	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			11/08/22 13:48	1
Methylene Chloride	ND		0.50	0.10	ug/L			11/08/22 13:48	1
Styrene	ND		0.50	0.070	ug/L			11/08/22 13:48	1
Tetrachloroethene	ND		0.50	0.20	ug/L			11/08/22 13:48	1
Toluene	ND		0.50	0.080	ug/L			11/08/22 13:48	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			11/08/22 13:48	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			11/08/22 13:48	1
Trichloroethene	ND		0.50	0.080	ug/L			11/08/22 13:48	1
Vinyl chloride	ND		0.50	0.10	ug/L			11/08/22 13:48	1
Xylenes, Total	ND		1.0	0.070	ug/L			11/08/22 13:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*11/08/22 13:48*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*11/08/22 13:48*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*11/08/22 13:48*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/08/22 13:48*	*1*

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

Lab Sample ID: LCS 410-315144/5
Matrix: Water
Analysis Batch: 315144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	5.00	5.04		ug/L		101	71 - 134
1,1,1-Trichloroethane	5.00	4.70		ug/L		94	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.76		ug/L		115	75 - 123
1,1,2-Trichloroethane	5.00	5.48		ug/L		110	80 - 120
1,1-Dichloroethane	5.00	4.79		ug/L		96	74 - 120
1,1-Dichloroethene	5.00	4.92		ug/L		98	80 - 131
1,2-Dibromoethane (EDB)	5.00	5.26		ug/L		105	80 - 120
1,2-Dichloroethane	5.00	4.62		ug/L		92	69 - 122
1,2-Dichloropropane	5.00	5.27		ug/L		105	80 - 120
2-Butanone (MEK)	62.5	43.2		ug/L		69	59 - 141
2-Hexanone	62.5	42.5		ug/L		68	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	40.4		ug/L		65	55 - 140
Acetone	62.5	42.9		ug/L		69	60 - 146
Benzene	5.00	5.16		ug/L		103	80 - 120
Bromochloromethane	5.00	5.08		ug/L		102	80 - 120
Bromodichloromethane	5.00	5.19		ug/L		104	73 - 124
Bromoform	5.00	6.20		ug/L		124	49 - 144
Bromomethane	5.00	4.27		ug/L		85	60 - 136
Carbon disulfide	5.00	4.88		ug/L		98	67 - 130
Carbon tetrachloride	5.00	4.78		ug/L		96	64 - 141
Chlorobenzene	5.00	5.03		ug/L		101	80 - 120
Chloroethane	5.00	4.30		ug/L		86	63 - 120
Chloroform	5.00	4.86		ug/L		97	80 - 120
Chloromethane	5.00	4.22		ug/L		84	56 - 124
cis-1,2-Dichloroethene	5.00	5.16		ug/L		103	80 - 122
cis-1,3-Dichloropropene	5.00	4.91		ug/L		98	67 - 121
Dibromochloromethane	5.00	5.48		ug/L		110	64 - 138
Ethylbenzene	5.00	5.07		ug/L		101	80 - 120
Methyl tert-butyl ether	5.00	5.08		ug/L		102	69 - 120
Methylene Chloride	5.00	5.02		ug/L		100	80 - 120
Styrene	5.00	5.32		ug/L		106	80 - 120
Tetrachloroethene	5.00	4.81		ug/L		96	80 - 120
Toluene	5.00	5.06		ug/L		101	80 - 120
trans-1,2-Dichloroethene	5.00	4.85		ug/L		97	80 - 122
trans-1,3-Dichloropropene	5.00	5.17		ug/L		103	61 - 129
Trichloroethene	5.00	4.91		ug/L		98	80 - 120
Vinyl chloride	5.00	4.23		ug/L		85	60 - 125
Xylenes, Total	15.0	15.1		ug/L		101	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

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

Lab Sample ID: LCSD 410-315144/6
Matrix: Water
Analysis Batch: 315144

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			5.00	4.99		ug/L		100	71 - 134	1	30
1,1,1-Trichloroethane			5.00	4.73		ug/L		95	78 - 126	1	30
1,1,2,2-Tetrachloroethane			5.00	5.61		ug/L		112	75 - 123	3	30
1,1,2-Trichloroethane			5.00	5.39		ug/L		108	80 - 120	2	30
1,1-Dichloroethane			5.00	4.81		ug/L		96	74 - 120	0	30
1,1-Dichloroethene			5.00	4.89		ug/L		98	80 - 131	1	30
1,2-Dibromoethane (EDB)			5.00	5.21		ug/L		104	80 - 120	1	30
1,2-Dichloroethane			5.00	4.72		ug/L		94	69 - 122	2	30
1,2-Dichloropropane			5.00	5.23		ug/L		105	80 - 120	1	30
2-Butanone (MEK)			62.5	43.8		ug/L		70	59 - 141	1	30
2-Hexanone			62.5	43.3		ug/L		69	52 - 140	2	30
4-Methyl-2-pentanone (MIBK)			62.5	41.4		ug/L		66	55 - 140	2	30
Acetone			62.5	42.8		ug/L		69	60 - 146	0	30
Benzene			5.00	5.18		ug/L		104	80 - 120	0	30
Bromochloromethane			5.00	5.20		ug/L		104	80 - 120	2	30
Bromodichloromethane			5.00	5.18		ug/L		104	73 - 124	0	30
Bromoform			5.00	6.19		ug/L		124	49 - 144	0	30
Bromomethane			5.00	4.37		ug/L		87	60 - 136	2	30
Carbon disulfide			5.00	4.87		ug/L		97	67 - 130	0	30
Carbon tetrachloride			5.00	4.84		ug/L		97	64 - 141	1	30
Chlorobenzene			5.00	5.02		ug/L		100	80 - 120	0	30
Chloroethane			5.00	4.27		ug/L		85	63 - 120	1	30
Chloroform			5.00	4.89		ug/L		98	80 - 120	0	30
Chloromethane			5.00	4.20		ug/L		84	56 - 124	0	30
cis-1,2-Dichloroethene			5.00	5.15		ug/L		103	80 - 122	0	30
cis-1,3-Dichloropropene			5.00	5.01		ug/L		100	67 - 121	2	30
Dibromochloromethane			5.00	5.51		ug/L		110	64 - 138	0	30
Ethylbenzene			5.00	5.06		ug/L		101	80 - 120	0	30
Methyl tert-butyl ether			5.00	5.13		ug/L		103	69 - 120	1	30
Methylene Chloride			5.00	5.04		ug/L		101	80 - 120	0	30
Styrene			5.00	5.32		ug/L		106	80 - 120	0	30
Tetrachloroethene			5.00	4.77		ug/L		95	80 - 120	1	30
Toluene			5.00	5.09		ug/L		102	80 - 120	0	30
trans-1,2-Dichloroethene			5.00	4.84		ug/L		97	80 - 122	0	30
trans-1,3-Dichloropropene			5.00	5.20		ug/L		104	61 - 129	1	30
Trichloroethene			5.00	4.83		ug/L		97	80 - 120	2	30
Vinyl chloride			5.00	4.23		ug/L		85	60 - 125	0	30
Xylenes, Total			15.0	15.2		ug/L		101	80 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

QC Association Summary

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

Job ID: 410-103501-1

GC/MS VOA

Analysis Batch: 314355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103501-1	HD-COD-SW-6-0/1-0	Total/NA	Water	8260D	
410-103501-2	HD-COD-SW-7-0/1-0	Total/NA	Water	8260D	
410-103501-3	HD-COD-SW-8-0/1-0	Total/NA	Water	8260D	
410-103501-4	HD-COD-SW-9-0/1-0	Total/NA	Water	8260D	
410-103501-5	HD-COD-SW-13-0/1-0	Total/NA	Water	8260D	
410-103501-6	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	
410-103501-7	HD-COD-SW-16-0/1-0	Total/NA	Water	8260D	
410-103501-8	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-103501-9	HD-COD-SW-26-0/1-0	Total/NA	Water	8260D	
410-103501-10	HD-COD-SW-27-0/1-0	Total/NA	Water	8260D	
410-103501-11	HD-COD-SW-28-0/1-0	Total/NA	Water	8260D	
410-103501-12	HD-COD-SW-29-0/1-0	Total/NA	Water	8260D	
410-103501-13	HD-QC1-0/1-1	Total/NA	Water	8260D	
410-103501-14	HD-QC1-0/1-2	Total/NA	Water	8260D	
MB 410-314355/6	Method Blank	Total/NA	Water	8260D	
LCS 410-314355/4	Lab Control Sample	Total/NA	Water	8260D	
410-103501-6 MS	HD-COD-SW-15-0/1-0MS	Total/NA	Water	8260D	
410-103501-6 MSD	HD-COD-SW-15-0/1-0MSD	Total/NA	Water	8260D	

Analysis Batch: 315144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-103501-8 - DL	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-103501-13 - DL	HD-QC1-0/1-1	Total/NA	Water	8260D	
MB 410-315144/10	Method Blank	Total/NA	Water	8260D	
LCS 410-315144/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-315144/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 410-103501-1

Client Sample ID: HD-COD-SW-6-0/1-0
Lab Sample ID: 410-103501-1
Date Collected: 10/27/22 10:20
Matrix: Water
Date Received: 10/27/22 15:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	314355	USEJ	ELLE	11/06/22 13:25

Client Sample ID: HD-COD-SW-7-0/1-0
Lab Sample ID: 410-103501-2
Date Collected: 10/27/22 11:00
Matrix: Water
Date Received: 10/27/22 15:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	314355	USEJ	ELLE	11/06/22 13:47

Client Sample ID: HD-COD-SW-8-0/1-0
Lab Sample ID: 410-103501-3
Date Collected: 10/27/22 09:15
Matrix: Water
Date Received: 10/27/22 15:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	314355	USEJ	ELLE	11/06/22 14:09

Client Sample ID: HD-COD-SW-9-0/1-0
Lab Sample ID: 410-103501-4
Date Collected: 10/27/22 12:40
Matrix: Water
Date Received: 10/27/22 15:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	314355	USEJ	ELLE	11/06/22 14:31

Client Sample ID: HD-COD-SW-13-0/1-0
Lab Sample ID: 410-103501-5
Date Collected: 10/27/22 09:30
Matrix: Water
Date Received: 10/27/22 15:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	314355	USEJ	ELLE	11/06/22 14:53

Client Sample ID: HD-COD-SW-15-0/1-0
Lab Sample ID: 410-103501-6
Date Collected: 10/27/22 11:25
Matrix: Water
Date Received: 10/27/22 15:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	314355	USEJ	ELLE	11/06/22 15:15

Client Sample ID: HD-COD-SW-16-0/1-0
Lab Sample ID: 410-103501-7
Date Collected: 10/27/22 09:50
Matrix: Water
Date Received: 10/27/22 15:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	314355	USEJ	ELLE	11/06/22 16:21

Client Sample ID: HD-COD-SW-17-0/1-0
Lab Sample ID: 410-103501-8
Date Collected: 10/27/22 09:55
Matrix: Water
Date Received: 10/27/22 15:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	314355	USEJ	ELLE	11/06/22 16:43
Total/NA	Analysis	8260D	DL	10	315144	DVW2	ELLE	11/08/22 18:24

Client Sample ID: HD-COD-SW-26-0/1-0
Lab Sample ID: 410-103501-9
Date Collected: 10/27/22 10:40
Matrix: Water
Date Received: 10/27/22 15:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	314355	USEJ	ELLE	11/06/22 17:05

Client Sample ID: HD-COD-SW-27-0/1-0
Lab Sample ID: 410-103501-10
Date Collected: 10/27/22 11:10
Matrix: Water
Date Received: 10/27/22 15:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	314355	USEJ	ELLE	11/06/22 17:27

Client Sample ID: HD-COD-SW-28-0/1-0
Lab Sample ID: 410-103501-11
Date Collected: 10/27/22 13:00
Matrix: Water
Date Received: 10/27/22 15:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	314355	USEJ	ELLE	11/06/22 17:49

Client Sample ID: HD-COD-SW-29-0/1-0
Lab Sample ID: 410-103501-12
Date Collected: 10/27/22 09:00
Matrix: Water
Date Received: 10/27/22 15:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	314355	USEJ	ELLE	11/06/22 18:11

Client Sample ID: HD-QC1-0/1-1
Lab Sample ID: 410-103501-13
Date Collected: 10/27/22 10:05
Matrix: Water
Date Received: 10/27/22 15:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	314355	USEJ	ELLE	11/06/22 18:33
Total/NA	Analysis	8260D	DL	10	315144	DVW2	ELLE	11/08/22 18:45

Client Sample ID: HD-QC1-0/1-2
Lab Sample ID: 410-103501-14
Date Collected: 10/27/22 00:00
Matrix: Water
Date Received: 10/27/22 15:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	314355	USEJ	ELLE	11/06/22 13:03

Laboratory References:

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

Accreditation/Certification Summary

Client: Groundwater Sciences Corporation
Job ID: 410-103501-1
Project/Site: fYNOP Monthly Surface Water

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	11-09-22

Method Summary

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

Job ID: 410-103501-1

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

Protocol References:

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

Laboratory References:

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

Sample Summary

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

Job ID: 410-103501-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-103501-1	HD-COD-SW-6-0/1-0	Water	10/27/22 10:20	10/27/22 15:34
410-103501-2	HD-COD-SW-7-0/1-0	Water	10/27/22 11:00	10/27/22 15:34
410-103501-3	HD-COD-SW-8-0/1-0	Water	10/27/22 09:15	10/27/22 15:34
410-103501-4	HD-COD-SW-9-0/1-0	Water	10/27/22 12:40	10/27/22 15:34
410-103501-5	HD-COD-SW-13-0/1-0	Water	10/27/22 09:30	10/27/22 15:34
410-103501-6	HD-COD-SW-15-0/1-0	Water	10/27/22 11:25	10/27/22 15:34
410-103501-7	HD-COD-SW-16-0/1-0	Water	10/27/22 09:50	10/27/22 15:34
410-103501-8	HD-COD-SW-17-0/1-0	Water	10/27/22 09:55	10/27/22 15:34
410-103501-9	HD-COD-SW-26-0/1-0	Water	10/27/22 10:40	10/27/22 15:34
410-103501-10	HD-COD-SW-27-0/1-0	Water	10/27/22 11:10	10/27/22 15:34
410-103501-11	HD-COD-SW-28-0/1-0	Water	10/27/22 13:00	10/27/22 15:34
410-103501-12	HD-COD-SW-29-0/1-0	Water	10/27/22 09:00	10/27/22 15:34
410-103501-13	HD-QC1-0/1-1	Water	10/27/22 10:05	10/27/22 15:34
410-103501-14	HD-QC1-0/1-2	Water	10/27/22 00:00	10/27/22 15:34

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-103501-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 286414

Lab Sample ID: IC 410-286414/13 Client Sample ID:

Date Analyzed: 08/16/22 17:26 Lab File ID: GG16X12.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.22	Incomplete Integration	DVW2	08/17/22 11:31
Ethyl ether	3.14	Incomplete Integration	DVW2	08/17/22 11:31
Acetone	3.49	Incomplete Integration	DVW2	08/17/22 11:31
Carbon disulfide	3.71	Incomplete Integration	DVW2	08/17/22 11:31
Methyl acetate	3.88	Incomplete Integration	DVW2	08/17/22 11:32
1,1-Dichloroethane	5.14	Incomplete Integration	DVW2	08/17/22 11:32
1,4-Dioxane	8.56	Incomplete Integration	DVW2	08/17/22 11:32
Bromodichloromethane	8.73	Incomplete Integration	DVW2	08/17/22 11:32
2-Nitropropane	9.00	Incomplete Integration	DVW2	08/17/22 11:32

Lab Sample ID: IC 410-286414/14 Client Sample ID:

Date Analyzed: 08/16/22 17:48 Lab File ID: GG16X13.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.22	Incomplete Integration	DVW2	08/17/22 11:33
Methyl acetate	3.87	Incomplete Integration	DVW2	08/17/22 11:34
t-Butyl alcohol	4.26	Incomplete Integration	DVW2	08/17/22 11:34
Propionitrile	6.04	Incomplete Integration	DVW2	08/17/22 11:34
1,4-Dioxane	8.52	Incomplete Integration	DVW2	08/17/22 11:35

Lab Sample ID: IC 410-286414/15 Client Sample ID:

Date Analyzed: 08/16/22 18:10 Lab File ID: GG16X14.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.22	Incomplete Integration	DVW2	08/17/22 11:36
Acetone	3.47	Incomplete Integration	DVW2	08/17/22 11:36
1,4-Dioxane	8.52	Incomplete Integration	DVW2	08/17/22 11:37

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-103501-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 286414

Lab Sample ID: IC 410-286414/16 Client Sample ID:

Date Analyzed: 08/16/22 18:32 Lab File ID: GG16X15.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.48	Incomplete Integration	DVW2	08/17/22 11:38
Methylcyclohexane	8.35	Incomplete Integration	DVW2	08/17/22 11:39
1,4-Dioxane	8.51	Incomplete Integration	DVW2	08/17/22 11:39

Lab Sample ID: IC 410-286414/17 Client Sample ID:

Date Analyzed: 08/16/22 18:54 Lab File ID: GG16X16.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol-d10 (IS)	4.13	Incomplete Integration	DVW2	08/17/22 11:41

Lab Sample ID: ICIS 410-286414/18 Client Sample ID:

Date Analyzed: 08/16/22 19:17 Lab File ID: GG16X17.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.46	Incomplete Integration	DVW2	08/17/22 11:42
Methyl acetate	3.86	Incomplete Integration	DVW2	08/17/22 11:43
t-Butyl alcohol-d10 (IS)	4.11	Incomplete Integration	DVW2	08/17/22 11:43

Lab Sample ID: IC 410-286414/19 Client Sample ID:

Date Analyzed: 08/16/22 19:38 Lab File ID: GG16X18.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.86	Incomplete Integration	DVW2	08/17/22 11:45
t-Butyl alcohol-d10 (IS)	4.15	Incomplete Integration	DVW2	08/17/22 11:45

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-103501-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 286414

Lab Sample ID: ICV 410-286414/21 Client Sample ID:

Date Analyzed: 08/16/22 20:22 Lab File ID: GG16X20.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.52	Incomplete Integration	DVW2	08/17/22 11:46

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-103501-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 314355

Lab Sample ID: 410-103501-1 Client Sample ID: HD-COD-SW-6-0/1-0

Date Analyzed: 11/06/22 13:25 Lab File ID: GN06X07.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane-d4 (Surr)	7.13	Incomplete Integration	DVW2	11/07/22 17:19
Carbon disulfide		Invalid Compound ID	DVW2	11/07/22 17:19

Lab Sample ID: 410-103501-5 Client Sample ID: HD-COD-SW-13-0/1-0

Date Analyzed: 11/06/22 14:53 Lab File ID: GN06X11.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroform	6.47	Peak assignment corrected	DVW2	11/07/22 17:22
Trichloroethene	8.06	Peak assignment corrected	DVW2	11/07/22 17:22

Lab Sample ID: 410-103501-6 Client Sample ID: HD-COD-SW-15-0/1-0

Date Analyzed: 11/06/22 15:15 Lab File ID: GN06X12.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethane	5.13	Peak assignment corrected	DVW2	11/07/22 17:23
Carbon tetrachloride	6.89	Incomplete Integration	DVW2	11/07/22 17:24

Lab Sample ID: 410-103501-6 MS Client Sample ID:

Date Analyzed: 11/06/22 15:37 Lab File ID: GN06X13.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol-d10 (IS)	4.13	Incomplete Integration	DVW2	11/07/22 17:28

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-103501-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 314355

Lab Sample ID: 410-103501-7 Client Sample ID: HD-COD-SW-16-0/1-0

Date Analyzed: 11/06/22 16:21 Lab File ID: GN06X15.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.71	Incomplete Integration	USEJ	11/07/22 21:11

Lab Sample ID: 410-103501-9 Client Sample ID: HD-COD-SW-26-0/1-0

Date Analyzed: 11/06/22 17:05 Lab File ID: GN06X17.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	8.05	Incomplete Integration	USEJ	11/07/22 21:14

Lab Sample ID: 410-103501-11 Client Sample ID: HD-COD-SW-28-0/1-0

Date Analyzed: 11/06/22 17:49 Lab File ID: GN06X19.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.71	Incomplete Integration	USEJ	11/07/22 21:15
cis-1,2-Dichloroethene	5.98	Missed Peak	USEJ	11/07/22 21:15

Lab Sample ID: 410-103501-13 Client Sample ID: HD-QC1-0/1-1

Date Analyzed: 11/06/22 18:33 Lab File ID: GN06X21.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloroethane		Invalid Compound ID	USEJ	11/07/22 22:03

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-103501-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 305355

Lab Sample ID: IC 410-305355/12 Client Sample ID:

Date Analyzed: 10/11/22 18:14 Lab File ID: IC11X11.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.93	Incomplete Integration	DVW2	10/12/22 10:40
t-Butyl alcohol-d10 (IS)	4.16	Split Peak	UKEK	10/13/22 09:13
1,4-Dioxane	8.52	Incomplete Integration	DVW2	10/12/22 10:42
tert-Butylbenzene	12.66	Split Peak	UKEK	10/13/22 09:43

Lab Sample ID: ICIS 410-305355/13 Client Sample ID:

Date Analyzed: 10/11/22 18:35 Lab File ID: IC11X12.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.51	Incomplete Integration	DVW2	10/12/22 10:43
Methyl acetate	3.93	Incomplete Integration	DVW2	10/12/22 10:44
t-Butyl alcohol-d10 (IS)	4.14	Split Peak	UKEK	10/13/22 09:14
1,4-Dioxane	8.52	Incomplete Integration	DVW2	10/12/22 10:44
tert-Butylbenzene	12.66	Split Peak	UKEK	10/13/22 09:42

Lab Sample ID: IC 410-305355/14 Client Sample ID:

Date Analyzed: 10/11/22 18:56 Lab File ID: IC11X13.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.93	Incomplete Integration	DVW2	10/12/22 10:45
t-Butyl alcohol-d10 (IS)	4.15	Split Peak	UKEK	10/13/22 09:15
Propionitrile	6.09	Incomplete Integration	DVW2	10/12/22 10:46
1,4-Dioxane	8.53	Incomplete Integration	DVW2	10/12/22 10:46
tert-Butylbenzene	12.66	Split Peak	UKEK	10/13/22 09:42

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-103501-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 305355

Lab Sample ID: IC 410-305355/15 Client Sample ID:

Date Analyzed: 10/11/22 19:16 Lab File ID: IC11X14.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.93	Incomplete Integration	DVW2	10/12/22 10:47
t-Butyl alcohol-d10 (IS)	4.15	Split Peak	UKEK	10/13/22 09:15
1,4-Dioxane	8.54	Incomplete Integration	UKEK	10/13/22 09:34
tert-Butylbenzene	12.66	Split Peak	UKEK	10/13/22 09:42

Lab Sample ID: IC 410-305355/16 Client Sample ID:

Date Analyzed: 10/11/22 19:38 Lab File ID: IC11X15.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.93	Incomplete Integration	DVW2	10/12/22 10:59
t-Butyl alcohol-d10 (IS)	4.15	Split Peak	UKEK	10/13/22 09:17
Acrylonitrile	4.50	Incomplete Integration	DVW2	10/12/22 11:00
Propionitrile	6.10	Incomplete Integration	DVW2	10/12/22 11:00
tert-Butylbenzene	12.66	Split Peak	UKEK	10/13/22 09:41

Lab Sample ID: IC 410-305355/17 Client Sample ID:

Date Analyzed: 10/11/22 19:59 Lab File ID: IC11X16.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol-d10 (IS)	4.17	Split Peak	UKEK	10/13/22 09:19
tert-Butylbenzene	12.66	Split Peak	UKEK	10/13/22 09:41

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-103501-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 305355

Lab Sample ID: IC 410-305355/18 Client Sample ID:

Date Analyzed: 10/11/22 20:20 Lab File ID: IC11X17.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.24	Incomplete Integration	DVW2	10/12/22 11:02
Methyl acetate	3.97	Incomplete Integration	DVW2	10/12/22 11:03
t-Butyl alcohol-d10 (IS)	4.15	Incomplete Integration	DVW2	10/12/22 11:03
Isobutyl alcohol	7.12	Incomplete Integration	DVW2	10/12/22 11:03
Styrene	11.68	Incomplete Integration	DVW2	10/12/22 11:04
1,1,2,2-Tetrachloroethane	12.21	Incomplete Integration	DVW2	10/12/22 11:04
tert-Butylbenzene	12.66	Split Peak	UKEK	10/13/22 09:43

Lab Sample ID: ICV 410-305355/19 Client Sample ID:

Date Analyzed: 10/11/22 20:41 Lab File ID: IC11X18.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
tert-Butylbenzene	12.66	Split Peak	UKEK	10/13/22 09:46

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_29_826ISS_00037	02/02/23	08/02/22	Methanol, Lot EB679	10 mL	MSV_8260_SS_00715	1 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
					MSV_Cus826_IS_00473	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
.MSV_8260_SS_00715	03/31/25		Restek, Lot A0183565		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.MSV_Cus826_IS_00473	04/30/25		Restek, Lot A0184225		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_29_826ISS_00039	05/01/23	11/01/22	Methanol, Lot EB679	10 mL	MSV_Cus826_IS_00508	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
.MSV_Cus826_IS_00508	05/01/23		Restek, Lot A0184225		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_29_826ISS_00039	05/01/23	11/01/22	Methanol, Lot EB679	10 mL	MSV_8260_SS_00786	1 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
.MSV_8260_SS_00786	05/01/23		Restek, Lot A0183565		(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_VOC#1_00068	09/13/22	08/14/22	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00082	1 mL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							Benzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Methylene Chloride	40 ug/mL
							Styrene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00081	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00081	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_00082	04/30/24		Restek, Lot A0171815		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
.MSV_M_MIX2SEC_00081	04/30/24		Restek, Lot A0171837		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00081	01/31/24		Restek, Lot A0178490		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LCS_VOC#1_00077	11/08/22	10/09/22	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00093	1 mL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							Benzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Methylene Chloride	40 ug/mL
							Styrene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00091	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00091	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_00093	04/30/25		Restek, Lot A0184354		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
.MSV_M_MIX2SEC_00091	04/30/25		Restek, Lot A0184412		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00091	01/31/24		Restek, Lot A0178490		(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_00080	11/29/22	10/30/22	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00096	1 mL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							Benzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Methylene Chloride	40 ug/mL
							Styrene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00094	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00094	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_00096	04/30/25		Restek, Lot A0184354		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
.MSV_M_MIX2SEC_00094	04/30/25		Restek, Lot A0184412		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00094	11/30/24		Restek, Lot A0178490		(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_00081	12/06/22	11/06/22	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00098	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 Env Job No.: 410-103501-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							Benzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Methylene Chloride	40 ug/mL
							Styrene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00095	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00093	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_00098	04/30/25		Restek, Lot A0184354		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	1000 ug/mL
							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_00095	04/30/25		Restek, Lot A0184412		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00093	01/31/24		Restek, Lot A0178490		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LL_#1_826_00052	09/11/22	08/15/22	Methanol, Lot EB679	1 mL	MSV_CCV_VOC#1_00083	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,4-Dioxane	2500 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							2-Nitropropane	250 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Acrylonitrile	125 ug/mL
							Benzyl chloride	50 ug/mL
							Carbon disulfide	50 ug/mL
							Cyclohexane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropyl ether	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl acetate	50 ug/mL
							Methyl methacrylate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							n-Butanol	4375 ug/mL
							n-Heptane	50 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
							Tetrahydrofuran	250 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_CCV_VOC#3_00084	200 uL	Acrolein	2499.94 ug/mL
							2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					MSV_V_VOA2_00153	150 uL	1,4-Dioxane	2500 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	4375 ug/mL
							Propionitrile	1000 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
.MSV_CCV_VOC#1_00083	09/13/22	08/14/22	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00082	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00081	1 mL	1,1,2-Trichloro-1,2,2-trifluoroethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Chloro-1,3-butadiene	1000 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							2-Nitropropane	5000 ug/mL
							3-Chloro-1-propene	1000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzyl chloride	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL
							Hexane	1000 ug/mL
							Iodomethane	1000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl ether	1000 ug/mL
							Methacrylonitrile	2500 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							n-Butanol	12500 ug/mL
							n-Heptane	1000 ug/mL
							Propionitrile	5000 ug/mL
							Tert-amyl methyl ether	1000 ug/mL
							Tert-butyl ethyl ether	1000 ug/mL
							Tetrahydrofuran	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_MegaMIX#1_00082	09/13/22		Restek, Lot A0171634		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trimethylbenzene	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL
							2-Chlorotoluene	5000 ug/mL
							4-Chlorotoluene	5000 ug/mL
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00081	09/13/22		Restek, Lot A0173454		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2,3-Trimethylbenzene	5000 ug/mL
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							2-Nitropropane	25000 ug/mL
							3-Chloro-1-propene	5000 ug/mL
							Acrylonitrile	12500 ug/mL
							Benzyl chloride	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Hexane	5000 ug/mL
							Iodomethane	5000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl ether	5000 ug/mL
							Methacrylonitrile	12500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
							n-Butanol	62500 ug/mL
							n-Heptane	5000 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	5000 ug/mL
							Tetrahydrofuran	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
.MSV_CCV_VOC#3_00084	09/11/22	08/14/22	Methanol, Lot EB679	5 mL	MSV_CCV_ACR_00005	0.5 mL	Acrolein	12499.7 ug/mL
					MSV_V_Ketones_00079	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_00005	09/11/22	07/13/22	Methanol, Lot EB679	10 mL	MSV_VACR_STK_00027	9.205 mL	Acrolein	124997 ug/mL
...MSV_VACR_STK_00027	09/11/22	07/13/22	Methanol, Lot EB679	10 mL	MSV_ACROLEIN_00020	1.457 g	Acrolein	135792 ug/mL
....MSV_ACROLEIN_00020	02/28/23		Chem Service, Lot 12926800		(Purchased Reagent)		Acrolein	0.932 g/g
..MSV_V_Ketones_00079	01/31/24		Restek, Lot A0174287		(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 Env Job No.: 410-103501-1

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_VOA2_00153	09/13/22	08/14/22	Methanol, Lot EB679	5 mL	MSV_V#2B_00282	1 mL	1,4-Dioxane	12500 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Methacrylonitrile	2500 ug/mL
							n-Butanol	25000 ug/mL
							Propionitrile	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_V#2B_00282	04/30/24		Restek, Lot A0184378		(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Methacrylonitrile	12500 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_LL_#1_826_00056	11/08/22	10/11/22	Methanol, Lot EB679	1 mL	MSV_CCV_VOC#1_00092	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,4-Dioxane	2500 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							2-Nitropropane	250 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Acrylonitrile	125 ug/mL
							Benzyl chloride	50 ug/mL
							Carbon disulfide	50 ug/mL
							Cyclohexane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropyl ether	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl acetate	50 ug/mL
							Methyl methacrylate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							n-Butanol	4375 ug/mL
							n-Heptane	50 ug/mL
							Propionitrile	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1

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	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
							Tetrahydrofuran	250 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_CCV_VOC#3_00092	200 uL	Acrolein	2500.04 ug/mL
							2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					MSV_V_VOA2_00161	150 uL	1,4-Dioxane	2500 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	4375 ug/mL
							Propionitrile	1000 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
.MSV_CCV_VOC#1_00092	11/08/22	10/09/22	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00092	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00089	1 mL	1,1,2-Trichloro-1,2,2-trifluoroethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Chloro-1,3-butadiene	1000 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							2-Nitropropane	5000 ug/mL
							3-Chloro-1-propene	1000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzyl chloride	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL
							Hexane	1000 ug/mL
							Iodomethane	1000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl ether	1000 ug/mL
							Methacrylonitrile	2500 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							n-Butanol	12500 ug/mL
							n-Heptane	1000 ug/mL
							Propionitrile	5000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00092	11/08/22		Restek, Lot A0171634		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trimethylbenzene	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL
							2-Chlorotoluene	5000 ug/mL
							4-Chlorotoluene	5000 ug/mL
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00089	11/08/22	Restek, Lot A0173454			(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2,3-Trimethylbenzene	5000 ug/mL
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							2-Nitropropane	25000 ug/mL
							3-Chloro-1-propene	5000 ug/mL
							Acrylonitrile	12500 ug/mL
							Benzyl chloride	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Hexane	5000 ug/mL
							Iodomethane	5000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl ether	5000 ug/mL
							Methacrylonitrile	12500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
							n-Butanol	62500 ug/mL
							n-Heptane	5000 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	5000 ug/mL
							Tetrahydrofuran	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
.MSV_CCV_VOC#3_00092	11/08/22	10/09/22	Methanol, Lot EB679	5 mL	MSV_CCV_ACR_00006	0.5 mL	Acrolein	12500.2 ug/mL
					MSV_V_Ketones_00087	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_00006	11/10/22	09/11/22	Methanol, Lot EB679	10 mL	MSV_VACR_STK_00028	9.232 mL	Acrolein	125002 ug/mL
...MSV_VACR_STK_00028	11/10/22	09/11/22	Methanol, Lot EB679	10 mL	MSV_ACROLEIN_00022	1.4528 g	Acrolein	135401 ug/mL
....MSV_ACROLEIN_00022	02/28/23	Chem Service, Lot 12926800			(Purchased Reagent)		Acrolein	0.932 g/g

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MSV_V_Ketones_00087	01/31/24		Restek, Lot A0174287		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.MSV_V_VOA2_00161	11/08/22	10/09/22	Methanol, Lot EB679	5 mL	MSV_V#2B_00290	1 mL	1,4-Dioxane	12500 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Methacrylonitrile	2500 ug/mL
							n-Butanol	25000 ug/mL
							Propionitrile	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_V#2B_00290	04/30/24		Restek, Lot A0184378		(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Methacrylonitrile	12500 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_LL_#1_826_00058	11/10/22	10/25/22	Methanol, Lot EB679	1 mL	MSV_CCV_VOC#1_00094	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Carbon disulfide	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSV_CCV_VOC#3_00094	200 uL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
.MSV_CCV_VOC#1_00094	11/22/22	10/23/22	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00094	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00091	1 mL	Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
..MSV_MegaMIX#1_00094	11/22/22		Restek, Lot A0171634		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							Benzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Methylene Chloride	5000 ug/mL
							Styrene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00091	11/22/22	Restek, Lot A0173454			(Purchased Reagent)		Carbon disulfide	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
.MSV_CCV_VOC#3_00094	11/10/22	10/23/22	Methanol, Lot EB679	5 mL	MSV_V_Ketones_00089	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_00089	01/31/25	Restek, Lot A0180742			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LL_#2_826_00056	09/07/22	08/16/22	Methanol, Lot EB679	1 mL	MSV_CCV_EE_00003	50 uL	Ethyl ether	50.0143 ug/mL
					MSV_V_PentaCL_00020	10 uL	Pentachloroethane	50 ug/mL
.MSV_CCV_EE_00003	11/20/22	05/20/22	Methanol, Lot EB679	100 mL	MSV_EE_MISCSK_00010	1.73 mL	Ethyl ether	1000.29 ug/mL
..MSV_EE_MISCSK_00010	11/20/22	05/20/22	Methanol, Lot EB679	10 mL	MSV_EE_Neat_00007	0.5782 g	Ethyl ether	57820 ug/mL
...MSV_EE_Neat_00007	12/31/25	Chem Service, Lot 12123300			(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_PentaCL_00020	09/07/22	Restek, Lot A0171341			(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_LL_#2_826_00060	10/27/22	10/11/22	Methanol, Lot EB679	1 mL	MSV_CCV_EE_00003	50 uL	Ethyl ether	50.0143 ug/mL
					MSV_V_PentaCL_00023	10 uL	Pentachloroethane	50 ug/mL
.MSV_CCV_EE_00003	11/20/22	05/20/22	Methanol, Lot EB679	100 mL	MSV_EE_MISCSK_00010	1.73 mL	Ethyl ether	1000.29 ug/mL
..MSV_EE_MISCSK_00010	11/20/22	05/20/22	Methanol, Lot EB679	10 mL	MSV_EE_Neat_00007	0.5782 g	Ethyl ether	57820 ug/mL
...MSV_EE_Neat_00007	12/31/25	Chem Service, Lot 12123300			(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_PentaCL_00023	10/27/22	Restek, Lot A0171341			(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_LL_GAS826_00108	08/22/22	08/15/22	Methanol, Lot EB679	1 mL	MSV_CCV_GASES_00250	25 uL	1,2-Dichloro-1,1,2-trifluoroethane	50 ug/mL
							Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00250	08/22/22	Restek, Lot A0172364			(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL
							Bromomethane	2000 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LL_GAS826_00116	10/18/22	10/11/22	Methanol, Lot EB679	1 mL	MSV_CCV_GASES_00339	25 uL	1,2-Dichloro-1,1,2-trifluoroethane	50 ug/mL
							Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00339	10/18/22		Restek, Lot A0184815		(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL
							Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LL_GAS826_00120	11/08/22	11/01/22	Methanol, Lot EB679	1 mL	MSV_CCV_GASES_00296	25 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00296	11/08/22		Restek, Lot A0184815		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LLcentISS_00005	11/30/22	05/30/22	Methanol, Lot EB679	50 mL	MSV_8260_SS_00668	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_00451	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_00668	11/30/22		Restek, Lot A0183565		(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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV_Cus826_IS_00451	11/30/22		Restek, Lot A0179696		(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_QC_Gas826_00095	08/21/22	08/15/22	Methanol, Lot EB679	1 mL	MSV_QC_2K_GAS_00103	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00103	08/21/22		Restek, Lot A0172021		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_QC_Gas826_00104	10/16/22	10/10/22	Methanol, Lot EB679	1 mL	MSV_QC_2K_GAS_00112	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00112	10/16/22		Restek, Lot A0172021		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_QC_Gas826_00107	11/06/22	10/30/22	Methanol, Lot EB679	1 mL	MSV_QC_2K_GAS_00115	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00115	11/06/22		Restek, Lot A0172021		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_QC_Gas826_00108	11/13/22	11/07/22	Methanol, Lot EB679	1 mL	MSV_QC_2K_GAS_00116	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00116	11/13/22		Restek, Lot A0172021		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_V_BFB_00008							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Xylenes, Total	
					MSV_VBFB_STK_00008	0.128 mL	BFB	49.8125 ug/mL
.MSV_VBFB_STK_00008	12/27/22	06/27/22	Methanol, Lot EB679	10 mL	MSV_4BFB_NEAT_00008	0.9729 g	BFB	97290 ug/mL
..MSV_4BFB_NEAT_00008	02/28/25		Chem Service, Lot 13233000		(Purchased Reagent)		BFB	1 g/g

Reagent

MSV_ACROLEIN_00020

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

CERTIFICATE OF ANALYSIS

Acrolein

CATALOG NUMBER	RPN-11030-1G
LOT NUMBER	12926800
DATE CERTIFIED	02/03/22
EXPIRATION DATE	02/28/23
CAS NUMBER	107-02-8
MOLECULAR FORMULA	C3H4O
MOLECULAR WEIGHT	56.06
STORAGE	Refrigerator storage (2 - 8 °C)
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.
NOTES	Contains water and hydroquinone as an inhibitor.

Analytical Test	Value
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
% PURITY (GC/TCD)	93.2
% WATER (KARL FISCHER)	2.2

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

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info@chemservice.com • www.chemservice.com

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

Certified By:

Mary Beth O'Donnell
CSM/TC

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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\2022 DATA\0222\SIG2022990.D

Sample name: Acrolein

Instrument:	GC 1	**Sample type:**	Sample
Injection date:	2/3/2022 2:54:32 PM	**Location:**	Vial 1
Acq. method:	GASBOMB_TCD.M	**Injection volume:**	1.0uL
Column name:	DB-624 (30m x 0.53mm x 3.0um)		

Signal: TCD2 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
2.600	BB	0.0362	14.5715	6.2387	4.5336
2.902	BB	0.0314	7.2404	3.5582	2.2527
4.046	BB	0.0349	299.5987	134.6697	93.2137
		Sum	321.4106		

Reagent

MSV_CCV_GASES_00250

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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.:** A0172364

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, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,001.0 µg/mL	+/- 15.5104 µg/mL	Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/- 112.6642 µg/mL	Unstressed
	Purity 99%		+/- 115.2788 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,000.2 µg/mL	+/- 19.3792 µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/- 113.2161 µg/mL	Unstressed
	Purity 99%		+/- 115.8161 µg/mL	Stressed
3	Vinyl chloride	2,003.2 µg/mL	+/- 20.1104 µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/- 113.5093 µg/mL	Unstressed
	Purity 99%		+/- 116.1105 µg/mL	Stressed
4	1,3-Butadiene	1,999.6 µg/mL	+/- 14.5225 µg/mL	Gravimetric
	CAS # 106-99-0 (Lot 00019375)		+/- 112.4545 µg/mL	Unstressed
	Purity 99%		+/- 115.0702 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,002.8 µg/mL	+/- 14.8201 µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/- 112.6669 µg/mL	Unstressed
	Purity 99%		+/- 115.2859 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,001.0 µg/mL	+/- 14.9955 µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/- 112.5912 µg/mL	Unstressed
	Purity 99%		+/- 115.2073 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 11.6282 µg/mL	Gravimetric
	CAS # 75-43-4 (Lot 11778600)		+/- 112.1380 µg/mL	Unstressed
	Purity 99%		+/- 114.7619 µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCJ8658)			+/-	112.1380	µg/mL	Unstressed
	Purity 99%				+/-	114.7619	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,000.2	µg/mL	+/-	17.2773	µg/mL	Gravimetric
	CAS # 354-23-4	(Lot Q9B-64)			+/-	112.8726	µg/mL	Unstressed
	Purity 99%				+/-	115.4802	µg/mL	Stressed

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

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

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

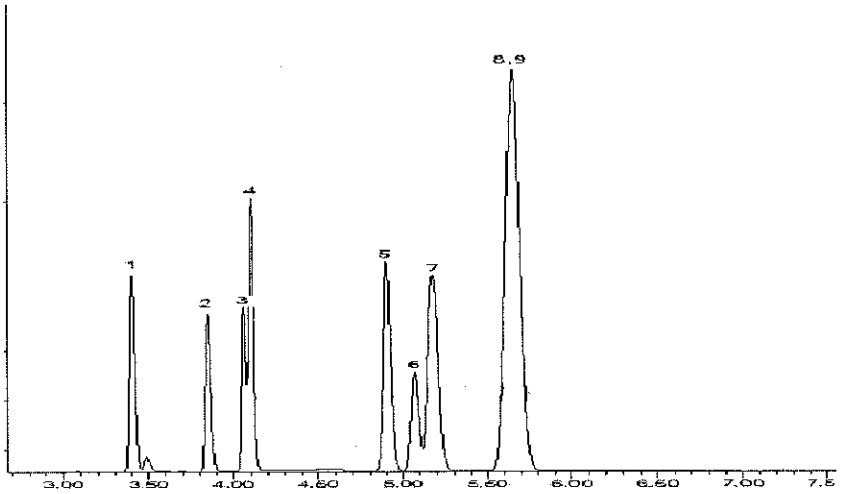
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Tom Suckar - Mix Technician

Date Mixed: 13-May-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 17-May-2021

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_CCV_GASES_00296

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577488 **Lot No.:** A0184815

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, 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)	2,008.5 µg/mL	+/- 16.4522	µg/mL	Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/- 113.2099	µg/mL	Unstressed
	Purity 99%		+/- 115.8314	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,017.9 µg/mL	+/- 17.1593	µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/- 113.8303	µg/mL	Unstressed
	Purity 99%		+/- 116.4619	µg/mL	Stressed
3	Vinyl chloride	2,023.8 µg/mL	+/- 20.0801	µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/- 114.6342	µg/mL	Unstressed
	Purity 99%		+/- 117.2631	µg/mL	Stressed
4	1,3-Butadiene	2,021.2 µg/mL	+/- 16.5562	µg/mL	Gravimetric
	CAS # 106-99-0 (Lot 00019375)		+/- 113.9252	µg/mL	Unstressed
	Purity 99%		+/- 116.5633	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,003.9 µg/mL	+/- 16.6513	µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/- 112.9858	µg/mL	Unstressed
	Purity 99%		+/- 115.6006	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,024.9 µg/mL	+/- 16.7845	µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/- 114.1621	µg/mL	Unstressed
	Purity 99%		+/- 116.8044	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 11.6550	µg/mL	Gravimetric
	CAS # 75-43-4 (Lot 12841600)		+/- 112.1408	µg/mL	Unstressed
	Purity 99%		+/- 114.7646	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,015.0	µg/mL	+/-	11.7425	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCL8411)			+/-	112.9819	µg/mL	Unstressed
	Purity 99%				+/-	115.6254	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,002.3	µg/mL	+/-	20.4087	µg/mL	Gravimetric
	CAS # 354-23-4	(Lot Q9B-64)			+/-	113.5126	µg/mL	Unstressed
	Purity 99%				+/-	116.1114	µg/mL	Stressed

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

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

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

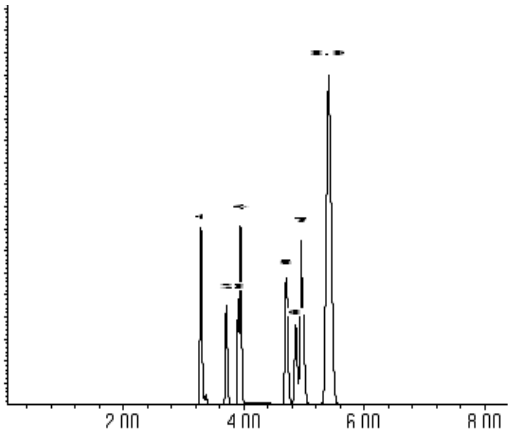
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.

Miranda Kline - Operations Technician I

Date Mixed: 03-May-2022 **Balance:** B707717271

Christie Mills - Operations Technician II

Date Passed: 09-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577488 **Lot No.:** A0184815

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, 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)	2,008.5 µg/mL	+/- 16.4522 µg/mL	Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/- 113.2099 µg/mL	Unstressed
	Purity 99%		+/- 115.8314 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,017.9 µg/mL	+/- 17.1593 µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/- 113.8303 µg/mL	Unstressed
	Purity 99%		+/- 116.4619 µg/mL	Stressed
3	Vinyl chloride	2,023.8 µg/mL	+/- 20.0801 µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/- 114.6342 µg/mL	Unstressed
	Purity 99%		+/- 117.2631 µg/mL	Stressed
4	1,3-Butadiene	2,021.2 µg/mL	+/- 16.5562 µg/mL	Gravimetric
	CAS # 106-99-0 (Lot 00019375)		+/- 113.9252 µg/mL	Unstressed
	Purity 99%		+/- 116.5633 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,003.9 µg/mL	+/- 16.6513 µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/- 112.9858 µg/mL	Unstressed
	Purity 99%		+/- 115.6006 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,024.9 µg/mL	+/- 16.7845 µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/- 114.1621 µg/mL	Unstressed
	Purity 99%		+/- 116.8044 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 11.6550 µg/mL	Gravimetric
	CAS # 75-43-4 (Lot 12841600)		+/- 112.1408 µg/mL	Unstressed
	Purity 99%		+/- 114.7646 µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,015.0	µg/mL	+/-	11.7425	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCL8411)			+/-	112.9819	µg/mL	Unstressed
	Purity 99%				+/-	115.6254	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,002.3	µg/mL	+/-	20.4087	µg/mL	Gravimetric
	CAS # 354-23-4	(Lot Q9B-64)			+/-	113.5126	µg/mL	Unstressed
	Purity 99%				+/-	116.1114	µg/mL	Stressed

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

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

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

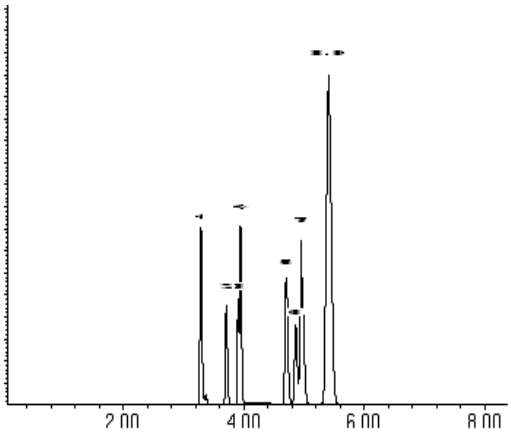
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.

Miranda Kline - Operations Technician I

Date Mixed: 03-May-2022 **Balance:** B707717271

Christie Mills - Operations Technician II

Date Passed: 09-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_Cus826_IS_00451

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 558267 **Lot No.:** A0179696

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 : December 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Methyl-2-propanol-d10	12,510.0 µg/mL	+/- 73.4157 µg/mL	Gravimetric
	CAS # 53001-22-2 (Lot PR-29961)		+/- 268.0265 µg/mL	Unstressed
	Purity 99%		+/- 275.8078 µg/mL	Stressed
2	Fluorobenzene	2,502.0 µg/mL	+/- 14.8611 µg/mL	Gravimetric
	CAS # 462-06-6 (Lot BCBZ5549)		+/- 53.6543 µg/mL	Unstressed
	Purity 99%		+/- 55.2092 µg/mL	Stressed
3	Chlorobenzene-d5	2,512.0 µg/mL	+/- 14.9205 µg/mL	Gravimetric
	CAS # 3114-55-4 (Lot PR-29571)		+/- 53.8688 µg/mL	Unstressed
	Purity 99%		+/- 55.4299 µg/mL	Stressed
4	1,4-Dichlorobenzene-d4	2,512.0 µg/mL	+/- 14.9205 µg/mL	Gravimetric
	CAS # 3855-82-1 (Lot PR-30447)		+/- 53.8688 µg/mL	Unstressed
	Purity 99%		+/- 55.4299 µg/mL	Stressed

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

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

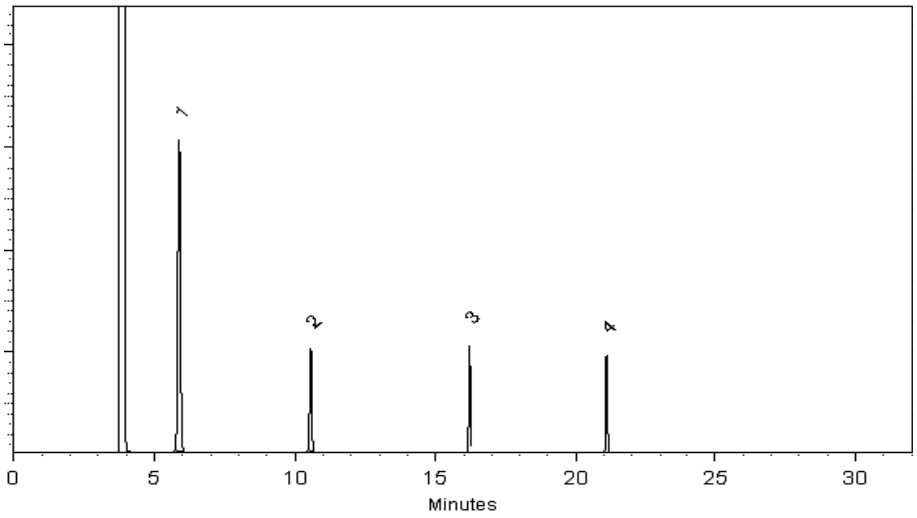
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Russ Bookhamer - Operations Technician I

Date Mixed: 17-Dec-2021 **Balance:** B442140311

Clara Windle - Operations Technician I

Date Passed: 28-Dec-2021

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_EE_Neat_00007

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

CERTIFICATE OF ANALYSIS

Ethyl ether

CATALOG NUMBER	N-11897-1G
LOT NUMBER	12123300
DATE CERTIFIED	12/04/20
EXPIRATION DATE	12/31/25
CAS NUMBER	60-29-7
MOLECULAR FORMULA	C4H10O
MOLECULAR WEIGHT	74.12
STORAGE	Refrigerator storage (2 - 8 °C)
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

Analytical Test	Value
% PURITY (GC/TCD)	99.5

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

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

COA Form
Revision 3 (3/2015)

PJLA Testing
Accreditation #63520

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CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2020 DATA\1220\SIG2022771.D

Sample name: Ethylether

Instrument: GC 1
Injection date: 12/4/2020 10:52:03 AM
Acq. method: TCD SCREEN.M
Column name: DB-624 (30m x 0.53mm x 3.0um)

Sample type: Sample
Location: Vial 21
Injection volume: 1.0uL

Signal: TCD2 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
1.206	BB	0.0364	16.2548	6.6698	0.0305
1.560	BB	0.0278	55.8996	29.9782	0.1049
1.892	BB	0.0328	64.6527	28.1084	0.1214
2.224	BB	0.0347	9.6188	4.3673	0.0181
2.545	BB S	0.0880	53125.6797	7942.5742	99.7251
		Sum	53272.1055		

PJLA Testing

Reagent

MSV_M_MIX1SEC_00082

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577493 **Lot No.:** A0171815

Description : Custom VOC MegaMix®.SEC #1 Standard

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

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

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-Dichloroethene	1,003.8 µg/mL	+/- 7.1628 µg/mL	Gravimetric
	CAS # 75-35-4.SEC (Lot 9201700)		+/- 56.4323 µg/mL	Unstressed
	Purity 99%		+/- 57.7457 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	1,001.8 µg/mL	+/- 7.1486 µg/mL	Gravimetric
	CAS # 75-09-2.SEC (Lot FGM02)		+/- 56.3199 µg/mL	Unstressed
	Purity 99%		+/- 57.6306 µg/mL	Stressed
3	trans-1,2-Dichloroethene	1,000.3 µg/mL	+/- 7.1382 µg/mL	Gravimetric
	CAS # 156-60-5.SEC (Lot TS5UB)		+/- 56.2383 µg/mL	Unstressed
	Purity 99%		+/- 57.5472 µg/mL	Stressed
4	1,1-Dichloroethane	1,002.0 µg/mL	+/- 7.1503 µg/mL	Gravimetric
	CAS # 75-34-3.SEC (Lot 7482000)		+/- 56.3339 µg/mL	Unstressed
	Purity 99%		+/- 57.6450 µg/mL	Stressed
5	2,2-Dichloropropane	1,000.0 µg/mL	+/- 7.1026 µg/mL	Gravimetric
	CAS # 594-20-7.SEC (Lot I7E8E)		+/- 56.2188 µg/mL	Unstressed
	Purity 98%		+/- 57.5274 µg/mL	Stressed
6	cis-1,2-Dichloroethene	1,000.1 µg/mL	+/- 7.1028 µg/mL	Gravimetric
	CAS # 156-59-2.SEC (Lot YZO5O)		+/- 56.2207 µg/mL	Unstressed
	Purity 99%		+/- 57.5294 µg/mL	Stressed
7	Chloroform	1,000.8 µg/mL	+/- 7.1414 µg/mL	Gravimetric
	CAS # 67-66-3.SEC (Lot 1297547)		+/- 56.2636 µg/mL	Unstressed
	Purity 99%		+/- 57.5731 µg/mL	Stressed

8	Bromochloromethane		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 8529200)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
9	1,1,1-trichloroethane		1,000.3	µg/mL	+/-	7.1383	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	56.2391	µg/mL	Unstressed
	Purity 98%				+/-	57.5479	µg/mL	Stressed
10	1,1-Dichloropropene		1,002.5	µg/mL	+/-	7.1204	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 8541600)			+/-	56.3597	µg/mL	Unstressed
	Purity 95%				+/-	57.6716	µg/mL	Stressed
11	Carbon tetrachloride		1,000.8	µg/mL	+/-	7.1414	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	56.2636	µg/mL	Unstressed
	Purity 99%				+/-	57.5731	µg/mL	Stressed
12	1,2-Dichloroethane		1,000.6	µg/mL	+/-	7.1407	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot 00016165)			+/-	56.2576	µg/mL	Unstressed
	Purity 99%				+/-	57.5669	µg/mL	Stressed
13	Benzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
14	Trichloroethene		1,000.9	µg/mL	+/-	7.1423	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	56.2708	µg/mL	Unstressed
	Purity 99%				+/-	57.5804	µg/mL	Stressed
15	1,2-Dichloropropane		1,000.1	µg/mL	+/-	7.1371	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)			+/-	56.2293	µg/mL	Unstressed
	Purity 99%				+/-	57.5380	µg/mL	Stressed
16	Bromodichloromethane		1,000.8	µg/mL	+/-	7.1418	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)			+/-	56.2662	µg/mL	Unstressed
	Purity 99%				+/-	57.5757	µg/mL	Stressed
17	Dibromomethane		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot MOKKJ)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
18	cis-1,3-Dichloropropene		1,000.9	µg/mL	+/-	7.1425	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/-	56.2723	µg/mL	Unstressed
	Purity 98%				+/-	57.5819	µg/mL	Stressed
19	Toluene		1,000.0	µg/mL	+/-	7.1026	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	56.2193	µg/mL	Unstressed
	Purity 99%				+/-	57.5279	µg/mL	Stressed
20	trans-1,3-Dichloropropene		1,002.1	µg/mL	+/-	7.1513	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	56.3417	µg/mL	Unstressed
	Purity 96%				+/-	57.6530	µg/mL	Stressed
21	1,1,2-Trichloroethane		1,001.3	µg/mL	+/-	7.1450	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)			+/-	56.2917	µg/mL	Unstressed
	Purity 99%				+/-	57.6018	µg/mL	Stressed
22	1,3-Dichloropropane		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
23	Tetrachloroethene		1,000.2	µg/mL	+/-	7.1378	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	56.2350	µg/mL	Unstressed
	Purity 99%				+/-	57.5437	µg/mL	Stressed

24	Dibromochloromethane		1,000.5	µg/mL	+/-	7.1396	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)			+/-	56.2489	µg/mL	Unstressed
	Purity 97%				+/-	57.5580	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		1,000.1	µg/mL	+/-	7.1032	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 7511900)			+/-	56.2235	µg/mL	Unstressed
	Purity 99%				+/-	57.5322	µg/mL	Stressed
26	Chlorobenzene		1,001.4	µg/mL	+/-	7.1460	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	56.2995	µg/mL	Unstressed
	Purity 99%				+/-	57.6098	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		1,000.1	µg/mL	+/-	7.1032	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)			+/-	56.2235	µg/mL	Unstressed
	Purity 99%				+/-	57.5322	µg/mL	Stressed
28	Ethylbenzene		1,000.2	µg/mL	+/-	7.1035	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)			+/-	56.2263	µg/mL	Unstressed
	Purity 99%				+/-	57.5351	µg/mL	Stressed
29	m-Xylene		1,000.2	µg/mL	+/-	7.1035	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot 7ZV6F)			+/-	56.2263	µg/mL	Unstressed
	Purity 99%				+/-	57.5351	µg/mL	Stressed
30	p-Xylene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot D6UOA)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
31	o-Xylene		1,000.1	µg/mL	+/-	7.1028	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)			+/-	56.2207	µg/mL	Unstressed
	Purity 99%				+/-	57.5294	µg/mL	Stressed
32	Styrene		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
33	Isopropylbenzene (cumene)		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot JN4EC)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
34	Bromoform		1,001.7	µg/mL	+/-	7.1485	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 9170700)			+/-	56.3193	µg/mL	Unstressed
	Purity 99%				+/-	57.6300	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		1,001.6	µg/mL	+/-	7.1478	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot BCCB0724)			+/-	56.3139	µg/mL	Unstressed
	Purity 98%				+/-	57.6245	µg/mL	Stressed
36	1,2,3-Trichloropropane		1,000.0	µg/mL	+/-	7.1026	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)			+/-	56.2193	µg/mL	Unstressed
	Purity 99%				+/-	57.5279	µg/mL	Stressed
37	n-Propylbenzene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
38	Bromobenzene		1,000.2	µg/mL	+/-	7.1034	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 8DKWJ)			+/-	56.2256	µg/mL	Unstressed
	Purity 99%				+/-	57.5344	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		1,000.1	µg/mL	+/-	7.1028	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot TOOOF)			+/-	56.2207	µg/mL	Unstressed
	Purity 99%				+/-	57.5294	µg/mL	Stressed

40	2-Chlorotoluene		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot BRHPM)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
41	4-Chlorotoluene		1,000.1	µg/mL	+/-	7.1030	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot S5SKD)			+/-	56.2221	µg/mL	Unstressed
	Purity 99%				+/-	57.5308	µg/mL	Stressed
42	tert-Butylbenzene		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
44	sec-Butylbenzene		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot O4HRF)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
45	4-Isopropyltoluene (p-cymene)		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 8380000)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
46	1,3-Dichlorobenzene		1,000.1	µg/mL	+/-	7.1365	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	56.2251	µg/mL	Unstressed
	Purity 99%				+/-	57.5337	µg/mL	Stressed
47	1,4-Dichlorobenzene		1,002.5	µg/mL	+/-	7.1538	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot YWKDC-MK)			+/-	56.3612	µg/mL	Unstressed
	Purity 99%				+/-	57.6729	µg/mL	Stressed
48	n-Butylbenzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
49	1,2-Dichlorobenzene		1,001.6	µg/mL	+/-	7.1475	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	56.3114	µg/mL	Unstressed
	Purity 99%				+/-	57.6220	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot Q135-105)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot IGLFA)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
52	Hexachlorobutadiene		1,000.8	µg/mL	+/-	7.1079	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 8532700)			+/-	56.2614	µg/mL	Unstressed
	Purity 97%				+/-	57.5709	µg/mL	Stressed
53	Naphthalene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot SKZ5N)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		1,000.7	µg/mL	+/-	7.1076	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/-	56.2588	µg/mL	Unstressed
	Purity 98%				+/-	57.5683	µg/mL	Stressed

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

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

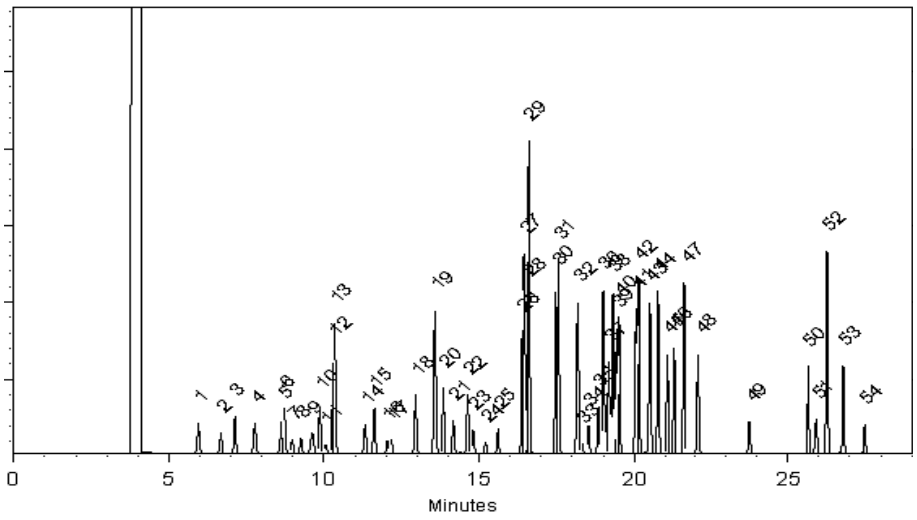
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Bradley Meyer - Mix Technician

Date Mixed: 28-Apr-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 30-Apr-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX1SEC_00093

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577493 **Lot No.:** A0184354

Description : Custom VOC MegaMix®.SEC #1 Standard

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

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

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

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-Dichloroethene	1,003.8 µg/mL	+/- 9.9833 µg/mL	Gravimetric
	CAS # 75-35-4.SEC (Lot 9201700)		+/- 56.8592 µg/mL	Unstressed
	Purity 99%		+/- 58.1629 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	1,001.8 µg/mL	+/- 9.9634 µg/mL	Gravimetric
	CAS # 75-09-2.SEC (Lot FGM02)		+/- 56.7459 µg/mL	Unstressed
	Purity 99%		+/- 58.0470 µg/mL	Stressed
3	trans-1,2-Dichloroethene	1,000.3 µg/mL	+/- 9.9490 µg/mL	Gravimetric
	CAS # 156-60-5.SEC (Lot TS5UB)		+/- 56.6637 µg/mL	Unstressed
	Purity 99%		+/- 57.9630 µg/mL	Stressed
4	1,1-Dichloroethane	1,002.0 µg/mL	+/- 9.9659 µg/mL	Gravimetric
	CAS # 75-34-3.SEC (Lot 7482000)		+/- 56.7600 µg/mL	Unstressed
	Purity 99%		+/- 58.0615 µg/mL	Stressed
5	2,2-Dichloropropane	1,000.0 µg/mL	+/- 9.9222 µg/mL	Gravimetric
	CAS # 594-20-7.SEC (Lot I7E8E)		+/- 56.6441 µg/mL	Unstressed
	Purity 98%		+/- 57.9431 µg/mL	Stressed
6	cis-1,2-Dichloroethene	1,000.1 µg/mL	+/- 9.9225 µg/mL	Gravimetric
	CAS # 156-59-2.SEC (Lot YZO5O)		+/- 56.6460 µg/mL	Unstressed
	Purity 99%		+/- 57.9451 µg/mL	Stressed
7	Chloroform	1,000.8 µg/mL	+/- 9.9535 µg/mL	Gravimetric
	CAS # 67-66-3.SEC (Lot 1297547)		+/- 56.6892 µg/mL	Unstressed
	Purity 99%		+/- 57.9891 µg/mL	Stressed

8	Bromochloromethane		1,000.1	µg/mL	+/-	9.9231	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 8529200)			+/-	56.6496	µg/mL	Unstressed
	Purity 99%				+/-	57.9487	µg/mL	Stressed
9	1,1,1-trichloroethane		1,000.3	µg/mL	+/-	9.9491	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	56.6645	µg/mL	Unstressed
	Purity 98%				+/-	57.9637	µg/mL	Stressed
10	1,1-Dichloropropene		1,002.5	µg/mL	+/-	9.9470	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 8541600)			+/-	56.7861	µg/mL	Unstressed
	Purity 95%				+/-	58.0883	µg/mL	Stressed
11	Carbon tetrachloride		1,000.8	µg/mL	+/-	9.9535	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	56.6892	µg/mL	Unstressed
	Purity 99%				+/-	57.9891	µg/mL	Stressed
12	1,2-Dichloroethane		1,000.6	µg/mL	+/-	9.9524	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot 00016165)			+/-	56.6831	µg/mL	Unstressed
	Purity 99%				+/-	57.9828	µg/mL	Stressed
13	Benzene		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
14	Trichloroethene		1,000.9	µg/mL	+/-	9.9548	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	56.6965	µg/mL	Unstressed
	Purity 99%				+/-	57.9965	µg/mL	Stressed
15	1,2-Dichloropropane		1,000.1	µg/mL	+/-	9.9474	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)			+/-	56.6547	µg/mL	Unstressed
	Purity 99%				+/-	57.9537	µg/mL	Stressed
16	Bromodichloromethane		1,000.8	µg/mL	+/-	9.9539	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)			+/-	56.6918	µg/mL	Unstressed
	Purity 99%				+/-	57.9917	µg/mL	Stressed
17	Dibromomethane		1,000.1	µg/mL	+/-	9.9231	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot MOKKJ)			+/-	56.6496	µg/mL	Unstressed
	Purity 99%				+/-	57.9487	µg/mL	Stressed
18	cis-1,3-Dichloropropene		1,000.9	µg/mL	+/-	9.9550	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/-	56.6979	µg/mL	Unstressed
	Purity 98%				+/-	57.9980	µg/mL	Stressed
19	Toluene		1,000.0	µg/mL	+/-	9.9222	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	56.6446	µg/mL	Unstressed
	Purity 99%				+/-	57.9436	µg/mL	Stressed
20	trans-1,3-Dichloropropene		1,002.1	µg/mL	+/-	9.9673	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	56.7679	µg/mL	Unstressed
	Purity 96%				+/-	58.0696	µg/mL	Stressed
21	1,1,2-Trichloroethane		1,001.3	µg/mL	+/-	9.9585	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)			+/-	56.7176	µg/mL	Unstressed
	Purity 99%				+/-	58.0180	µg/mL	Stressed
22	1,3-Dichloropropane		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
23	Tetrachloroethene		1,000.2	µg/mL	+/-	9.9484	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	56.6603	µg/mL	Unstressed
	Purity 99%				+/-	57.9595	µg/mL	Stressed

24	Dibromochloromethane		1,000.5	µg/mL	+/-	9.9509	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)			+/-	56.6743	µg/mL	Unstressed
	Purity 97%				+/-	57.9738	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		1,000.1	µg/mL	+/-	9.9230	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 7511900)			+/-	56.6489	µg/mL	Unstressed
	Purity 99%				+/-	57.9480	µg/mL	Stressed
26	Chlorobenzene		1,001.4	µg/mL	+/-	9.9598	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	56.7253	µg/mL	Unstressed
	Purity 99%				+/-	58.0260	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		1,000.1	µg/mL	+/-	9.9230	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)			+/-	56.6489	µg/mL	Unstressed
	Purity 99%				+/-	57.9480	µg/mL	Stressed
28	Ethylbenzene		1,000.2	µg/mL	+/-	9.9235	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)			+/-	56.6517	µg/mL	Unstressed
	Purity 99%				+/-	57.9509	µg/mL	Stressed
29	m-Xylene		1,000.2	µg/mL	+/-	9.9235	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot 7ZV6F)			+/-	56.6517	µg/mL	Unstressed
	Purity 99%				+/-	57.9509	µg/mL	Stressed
30	p-Xylene		1,000.1	µg/mL	+/-	9.9224	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot D6UOA)			+/-	56.6453	µg/mL	Unstressed
	Purity 99%				+/-	57.9444	µg/mL	Stressed
31	o-Xylene		1,000.1	µg/mL	+/-	9.9225	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)			+/-	56.6460	µg/mL	Unstressed
	Purity 99%				+/-	57.9451	µg/mL	Stressed
32	Styrene		1,000.1	µg/mL	+/-	9.9231	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)			+/-	56.6496	µg/mL	Unstressed
	Purity 99%				+/-	57.9487	µg/mL	Stressed
33	Isopropylbenzene (cumene)		1,000.0	µg/mL	+/-	9.9220	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot JN4EC)			+/-	56.6432	µg/mL	Unstressed
	Purity 99%				+/-	57.9422	µg/mL	Stressed
34	Bromoform		1,001.7	µg/mL	+/-	9.9633	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 9170700)			+/-	56.7453	µg/mL	Unstressed
	Purity 99%				+/-	58.0464	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		1,001.6	µg/mL	+/-	9.9624	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot BCCB0724)			+/-	56.7398	µg/mL	Unstressed
	Purity 98%				+/-	58.0408	µg/mL	Stressed
36	1,2,3-Trichloropropane		1,000.0	µg/mL	+/-	9.9222	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)			+/-	56.6446	µg/mL	Unstressed
	Purity 99%				+/-	57.9436	µg/mL	Stressed
37	n-Propylbenzene		1,000.1	µg/mL	+/-	9.9224	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)			+/-	56.6453	µg/mL	Unstressed
	Purity 99%				+/-	57.9444	µg/mL	Stressed
38	Bromobenzene		1,000.2	µg/mL	+/-	9.9234	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 8DKWJ)			+/-	56.6510	µg/mL	Unstressed
	Purity 99%				+/-	57.9502	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		1,000.1	µg/mL	+/-	9.9225	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot TOOOF)			+/-	56.6460	µg/mL	Unstressed
	Purity 99%				+/-	57.9451	µg/mL	Stressed

40	2-Chlorotoluene		1,000.0	µg/mL	+/-	9.9220	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot BRHPM)			+/-	56.6432	µg/mL	Unstressed
	Purity 99%				+/-	57.9422	µg/mL	Stressed
41	4-Chlorotoluene		1,000.1	µg/mL	+/-	9.9227	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot S5SKD)			+/-	56.6475	µg/mL	Unstressed
	Purity 99%				+/-	57.9465	µg/mL	Stressed
42	tert-Butylbenzene		1,000.1	µg/mL	+/-	9.9226	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	56.6468	µg/mL	Unstressed
	Purity 99%				+/-	57.9458	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
44	sec-Butylbenzene		1,000.1	µg/mL	+/-	9.9226	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot O4HRF)			+/-	56.6468	µg/mL	Unstressed
	Purity 99%				+/-	57.9458	µg/mL	Stressed
45	4-Isopropyltoluene (p-cymene)		1,000.1	µg/mL	+/-	9.9226	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 8380000)			+/-	56.6468	µg/mL	Unstressed
	Purity 99%				+/-	57.9458	µg/mL	Stressed
46	1,3-Dichlorobenzene		1,000.1	µg/mL	+/-	9.9467	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	56.6504	µg/mL	Unstressed
	Purity 99%				+/-	57.9494	µg/mL	Stressed
47	1,4-Dichlorobenzene		1,002.5	µg/mL	+/-	9.9708	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot YWKDC-MK)			+/-	56.7875	µg/mL	Unstressed
	Purity 99%				+/-	58.0896	µg/mL	Stressed
48	n-Butylbenzene		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
49	1,2-Dichlorobenzene		1,001.6	µg/mL	+/-	9.9619	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	56.7374	µg/mL	Unstressed
	Purity 99%				+/-	58.0383	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		1,000.0	µg/mL	+/-	9.9220	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot Q135-105)			+/-	56.6432	µg/mL	Unstressed
	Purity 99%				+/-	57.9422	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		1,000.1	µg/mL	+/-	9.9224	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot IGLFA)			+/-	56.6453	µg/mL	Unstressed
	Purity 99%				+/-	57.9444	µg/mL	Stressed
52	Hexachlorobutadiene		1,000.8	µg/mL	+/-	9.9297	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 8532700)			+/-	56.6870	µg/mL	Unstressed
	Purity 97%				+/-	57.9870	µg/mL	Stressed
53	Naphthalene		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot SKZ5N)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		1,000.7	µg/mL	+/-	9.9292	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/-	56.6844	µg/mL	Unstressed
	Purity 98%				+/-	57.9843	µg/mL	Stressed

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

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

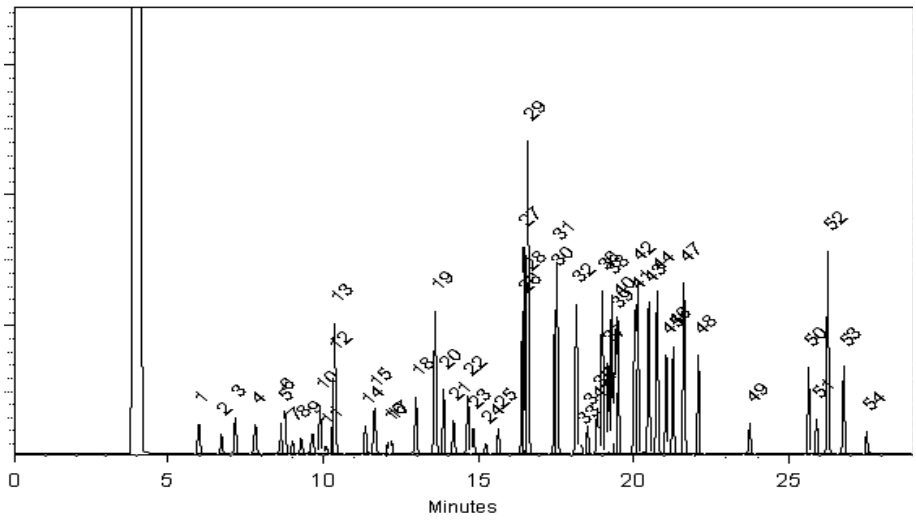
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Katelyn McGinni - Operations Tech I

Date Mixed: 21-Apr-2022 **Balance:** B345965662

Marlina Cowan - Operations Tech I

Date Passed: 27-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX1SEC_00096

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577493 **Lot No.:** A0184354

Description : Custom VOC MegaMix®.SEC #1 Standard

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

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

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

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-Dichloroethene	1,003.8 µg/mL	+/- 9.9833 µg/mL	Gravimetric
	CAS # 75-35-4.SEC (Lot 9201700)		+/- 56.8592 µg/mL	Unstressed
	Purity 99%		+/- 58.1629 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	1,001.8 µg/mL	+/- 9.9634 µg/mL	Gravimetric
	CAS # 75-09-2.SEC (Lot FGM02)		+/- 56.7459 µg/mL	Unstressed
	Purity 99%		+/- 58.0470 µg/mL	Stressed
3	trans-1,2-Dichloroethene	1,000.3 µg/mL	+/- 9.9490 µg/mL	Gravimetric
	CAS # 156-60-5.SEC (Lot TS5UB)		+/- 56.6637 µg/mL	Unstressed
	Purity 99%		+/- 57.9630 µg/mL	Stressed
4	1,1-Dichloroethane	1,002.0 µg/mL	+/- 9.9659 µg/mL	Gravimetric
	CAS # 75-34-3.SEC (Lot 7482000)		+/- 56.7600 µg/mL	Unstressed
	Purity 99%		+/- 58.0615 µg/mL	Stressed
5	2,2-Dichloropropane	1,000.0 µg/mL	+/- 9.9222 µg/mL	Gravimetric
	CAS # 594-20-7.SEC (Lot I7E8E)		+/- 56.6441 µg/mL	Unstressed
	Purity 98%		+/- 57.9431 µg/mL	Stressed
6	cis-1,2-Dichloroethene	1,000.1 µg/mL	+/- 9.9225 µg/mL	Gravimetric
	CAS # 156-59-2.SEC (Lot YZO5O)		+/- 56.6460 µg/mL	Unstressed
	Purity 99%		+/- 57.9451 µg/mL	Stressed
7	Chloroform	1,000.8 µg/mL	+/- 9.9535 µg/mL	Gravimetric
	CAS # 67-66-3.SEC (Lot 1297547)		+/- 56.6892 µg/mL	Unstressed
	Purity 99%		+/- 57.9891 µg/mL	Stressed

8	Bromochloromethane		1,000.1	µg/mL	+/-	9.9231	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 8529200)			+/-	56.6496	µg/mL	Unstressed
	Purity 99%				+/-	57.9487	µg/mL	Stressed
9	1,1,1-trichloroethane		1,000.3	µg/mL	+/-	9.9491	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	56.6645	µg/mL	Unstressed
	Purity 98%				+/-	57.9637	µg/mL	Stressed
10	1,1-Dichloropropene		1,002.5	µg/mL	+/-	9.9470	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 8541600)			+/-	56.7861	µg/mL	Unstressed
	Purity 95%				+/-	58.0883	µg/mL	Stressed
11	Carbon tetrachloride		1,000.8	µg/mL	+/-	9.9535	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	56.6892	µg/mL	Unstressed
	Purity 99%				+/-	57.9891	µg/mL	Stressed
12	1,2-Dichloroethane		1,000.6	µg/mL	+/-	9.9524	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot 00016165)			+/-	56.6831	µg/mL	Unstressed
	Purity 99%				+/-	57.9828	µg/mL	Stressed
13	Benzene		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
14	Trichloroethene		1,000.9	µg/mL	+/-	9.9548	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	56.6965	µg/mL	Unstressed
	Purity 99%				+/-	57.9965	µg/mL	Stressed
15	1,2-Dichloropropane		1,000.1	µg/mL	+/-	9.9474	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)			+/-	56.6547	µg/mL	Unstressed
	Purity 99%				+/-	57.9537	µg/mL	Stressed
16	Bromodichloromethane		1,000.8	µg/mL	+/-	9.9539	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)			+/-	56.6918	µg/mL	Unstressed
	Purity 99%				+/-	57.9917	µg/mL	Stressed
17	Dibromomethane		1,000.1	µg/mL	+/-	9.9231	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot MOKKJ)			+/-	56.6496	µg/mL	Unstressed
	Purity 99%				+/-	57.9487	µg/mL	Stressed
18	cis-1,3-Dichloropropene		1,000.9	µg/mL	+/-	9.9550	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/-	56.6979	µg/mL	Unstressed
	Purity 98%				+/-	57.9980	µg/mL	Stressed
19	Toluene		1,000.0	µg/mL	+/-	9.9222	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	56.6446	µg/mL	Unstressed
	Purity 99%				+/-	57.9436	µg/mL	Stressed
20	trans-1,3-Dichloropropene		1,002.1	µg/mL	+/-	9.9673	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	56.7679	µg/mL	Unstressed
	Purity 96%				+/-	58.0696	µg/mL	Stressed
21	1,1,2-Trichloroethane		1,001.3	µg/mL	+/-	9.9585	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)			+/-	56.7176	µg/mL	Unstressed
	Purity 99%				+/-	58.0180	µg/mL	Stressed
22	1,3-Dichloropropane		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
23	Tetrachloroethene		1,000.2	µg/mL	+/-	9.9484	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	56.6603	µg/mL	Unstressed
	Purity 99%				+/-	57.9595	µg/mL	Stressed

24	Dibromochloromethane		1,000.5	µg/mL	+/-	9.9509	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)			+/-	56.6743	µg/mL	Unstressed
	Purity 97%				+/-	57.9738	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		1,000.1	µg/mL	+/-	9.9230	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 7511900)			+/-	56.6489	µg/mL	Unstressed
	Purity 99%				+/-	57.9480	µg/mL	Stressed
26	Chlorobenzene		1,001.4	µg/mL	+/-	9.9598	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	56.7253	µg/mL	Unstressed
	Purity 99%				+/-	58.0260	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		1,000.1	µg/mL	+/-	9.9230	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)			+/-	56.6489	µg/mL	Unstressed
	Purity 99%				+/-	57.9480	µg/mL	Stressed
28	Ethylbenzene		1,000.2	µg/mL	+/-	9.9235	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)			+/-	56.6517	µg/mL	Unstressed
	Purity 99%				+/-	57.9509	µg/mL	Stressed
29	m-Xylene		1,000.2	µg/mL	+/-	9.9235	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot 7ZV6F)			+/-	56.6517	µg/mL	Unstressed
	Purity 99%				+/-	57.9509	µg/mL	Stressed
30	p-Xylene		1,000.1	µg/mL	+/-	9.9224	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot D6UOA)			+/-	56.6453	µg/mL	Unstressed
	Purity 99%				+/-	57.9444	µg/mL	Stressed
31	o-Xylene		1,000.1	µg/mL	+/-	9.9225	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)			+/-	56.6460	µg/mL	Unstressed
	Purity 99%				+/-	57.9451	µg/mL	Stressed
32	Styrene		1,000.1	µg/mL	+/-	9.9231	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)			+/-	56.6496	µg/mL	Unstressed
	Purity 99%				+/-	57.9487	µg/mL	Stressed
33	Isopropylbenzene (cumene)		1,000.0	µg/mL	+/-	9.9220	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot JN4EC)			+/-	56.6432	µg/mL	Unstressed
	Purity 99%				+/-	57.9422	µg/mL	Stressed
34	Bromoform		1,001.7	µg/mL	+/-	9.9633	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 9170700)			+/-	56.7453	µg/mL	Unstressed
	Purity 99%				+/-	58.0464	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		1,001.6	µg/mL	+/-	9.9624	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot BCCB0724)			+/-	56.7398	µg/mL	Unstressed
	Purity 98%				+/-	58.0408	µg/mL	Stressed
36	1,2,3-Trichloropropane		1,000.0	µg/mL	+/-	9.9222	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)			+/-	56.6446	µg/mL	Unstressed
	Purity 99%				+/-	57.9436	µg/mL	Stressed
37	n-Propylbenzene		1,000.1	µg/mL	+/-	9.9224	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)			+/-	56.6453	µg/mL	Unstressed
	Purity 99%				+/-	57.9444	µg/mL	Stressed
38	Bromobenzene		1,000.2	µg/mL	+/-	9.9234	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 8DKWJ)			+/-	56.6510	µg/mL	Unstressed
	Purity 99%				+/-	57.9502	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		1,000.1	µg/mL	+/-	9.9225	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot TOOOF)			+/-	56.6460	µg/mL	Unstressed
	Purity 99%				+/-	57.9451	µg/mL	Stressed

40	2-Chlorotoluene		1,000.0	µg/mL	+/-	9.9220	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot BRHPM)			+/-	56.6432	µg/mL	Unstressed
	Purity 99%				+/-	57.9422	µg/mL	Stressed
41	4-Chlorotoluene		1,000.1	µg/mL	+/-	9.9227	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot S5SKD)			+/-	56.6475	µg/mL	Unstressed
	Purity 99%				+/-	57.9465	µg/mL	Stressed
42	tert-Butylbenzene		1,000.1	µg/mL	+/-	9.9226	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	56.6468	µg/mL	Unstressed
	Purity 99%				+/-	57.9458	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
44	sec-Butylbenzene		1,000.1	µg/mL	+/-	9.9226	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot O4HRF)			+/-	56.6468	µg/mL	Unstressed
	Purity 99%				+/-	57.9458	µg/mL	Stressed
45	4-Isopropyltoluene (p-cymene)		1,000.1	µg/mL	+/-	9.9226	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 8380000)			+/-	56.6468	µg/mL	Unstressed
	Purity 99%				+/-	57.9458	µg/mL	Stressed
46	1,3-Dichlorobenzene		1,000.1	µg/mL	+/-	9.9467	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	56.6504	µg/mL	Unstressed
	Purity 99%				+/-	57.9494	µg/mL	Stressed
47	1,4-Dichlorobenzene		1,002.5	µg/mL	+/-	9.9708	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot YWKDC-MK)			+/-	56.7875	µg/mL	Unstressed
	Purity 99%				+/-	58.0896	µg/mL	Stressed
48	n-Butylbenzene		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
49	1,2-Dichlorobenzene		1,001.6	µg/mL	+/-	9.9619	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	56.7374	µg/mL	Unstressed
	Purity 99%				+/-	58.0383	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		1,000.0	µg/mL	+/-	9.9220	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot Q135-105)			+/-	56.6432	µg/mL	Unstressed
	Purity 99%				+/-	57.9422	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		1,000.1	µg/mL	+/-	9.9224	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot IGLFA)			+/-	56.6453	µg/mL	Unstressed
	Purity 99%				+/-	57.9444	µg/mL	Stressed
52	Hexachlorobutadiene		1,000.8	µg/mL	+/-	9.9297	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 8532700)			+/-	56.6870	µg/mL	Unstressed
	Purity 97%				+/-	57.9870	µg/mL	Stressed
53	Naphthalene		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot SKZ5N)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		1,000.7	µg/mL	+/-	9.9292	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/-	56.6844	µg/mL	Unstressed
	Purity 98%				+/-	57.9843	µg/mL	Stressed

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

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

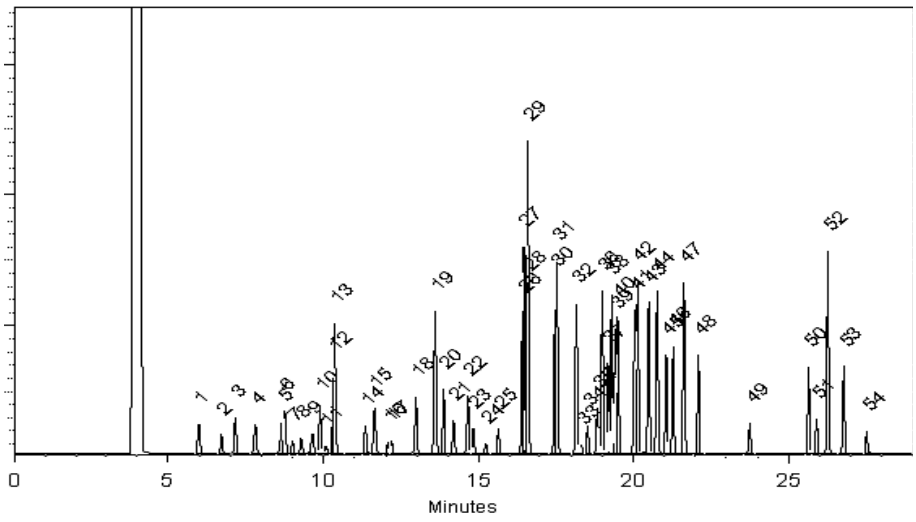
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Katelyn McGinni - Operations Tech I

Date Mixed: 21-Apr-2022 **Balance:** B345965662

Marlina Cowan - Operations Tech I

Date Passed: 27-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX1SEC_00098

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577493 **Lot No.:** A0184354

Description : Custom VOC MegaMix®.SEC #1 Standard

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

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

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

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-Dichloroethene	1,003.8 µg/mL	+/- 9.9833 µg/mL	Gravimetric
	CAS # 75-35-4.SEC (Lot 9201700)		+/- 56.8592 µg/mL	Unstressed
	Purity 99%		+/- 58.1629 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	1,001.8 µg/mL	+/- 9.9634 µg/mL	Gravimetric
	CAS # 75-09-2.SEC (Lot FGM02)		+/- 56.7459 µg/mL	Unstressed
	Purity 99%		+/- 58.0470 µg/mL	Stressed
3	trans-1,2-Dichloroethene	1,000.3 µg/mL	+/- 9.9490 µg/mL	Gravimetric
	CAS # 156-60-5.SEC (Lot TS5UB)		+/- 56.6637 µg/mL	Unstressed
	Purity 99%		+/- 57.9630 µg/mL	Stressed
4	1,1-Dichloroethane	1,002.0 µg/mL	+/- 9.9659 µg/mL	Gravimetric
	CAS # 75-34-3.SEC (Lot 7482000)		+/- 56.7600 µg/mL	Unstressed
	Purity 99%		+/- 58.0615 µg/mL	Stressed
5	2,2-Dichloropropane	1,000.0 µg/mL	+/- 9.9222 µg/mL	Gravimetric
	CAS # 594-20-7.SEC (Lot I7E8E)		+/- 56.6441 µg/mL	Unstressed
	Purity 98%		+/- 57.9431 µg/mL	Stressed
6	cis-1,2-Dichloroethene	1,000.1 µg/mL	+/- 9.9225 µg/mL	Gravimetric
	CAS # 156-59-2.SEC (Lot YZO5O)		+/- 56.6460 µg/mL	Unstressed
	Purity 99%		+/- 57.9451 µg/mL	Stressed
7	Chloroform	1,000.8 µg/mL	+/- 9.9535 µg/mL	Gravimetric
	CAS # 67-66-3.SEC (Lot 1297547)		+/- 56.6892 µg/mL	Unstressed
	Purity 99%		+/- 57.9891 µg/mL	Stressed

8	Bromochloromethane		1,000.1	µg/mL	+/-	9.9231	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 8529200)			+/-	56.6496	µg/mL	Unstressed
	Purity 99%				+/-	57.9487	µg/mL	Stressed
9	1,1,1-trichloroethane		1,000.3	µg/mL	+/-	9.9491	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	56.6645	µg/mL	Unstressed
	Purity 98%				+/-	57.9637	µg/mL	Stressed
10	1,1-Dichloropropene		1,002.5	µg/mL	+/-	9.9470	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 8541600)			+/-	56.7861	µg/mL	Unstressed
	Purity 95%				+/-	58.0883	µg/mL	Stressed
11	Carbon tetrachloride		1,000.8	µg/mL	+/-	9.9535	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	56.6892	µg/mL	Unstressed
	Purity 99%				+/-	57.9891	µg/mL	Stressed
12	1,2-Dichloroethane		1,000.6	µg/mL	+/-	9.9524	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot 00016165)			+/-	56.6831	µg/mL	Unstressed
	Purity 99%				+/-	57.9828	µg/mL	Stressed
13	Benzene		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
14	Trichloroethene		1,000.9	µg/mL	+/-	9.9548	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	56.6965	µg/mL	Unstressed
	Purity 99%				+/-	57.9965	µg/mL	Stressed
15	1,2-Dichloropropane		1,000.1	µg/mL	+/-	9.9474	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)			+/-	56.6547	µg/mL	Unstressed
	Purity 99%				+/-	57.9537	µg/mL	Stressed
16	Bromodichloromethane		1,000.8	µg/mL	+/-	9.9539	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)			+/-	56.6918	µg/mL	Unstressed
	Purity 99%				+/-	57.9917	µg/mL	Stressed
17	Dibromomethane		1,000.1	µg/mL	+/-	9.9231	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot MOKKJ)			+/-	56.6496	µg/mL	Unstressed
	Purity 99%				+/-	57.9487	µg/mL	Stressed
18	cis-1,3-Dichloropropene		1,000.9	µg/mL	+/-	9.9550	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/-	56.6979	µg/mL	Unstressed
	Purity 98%				+/-	57.9980	µg/mL	Stressed
19	Toluene		1,000.0	µg/mL	+/-	9.9222	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	56.6446	µg/mL	Unstressed
	Purity 99%				+/-	57.9436	µg/mL	Stressed
20	trans-1,3-Dichloropropene		1,002.1	µg/mL	+/-	9.9673	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	56.7679	µg/mL	Unstressed
	Purity 96%				+/-	58.0696	µg/mL	Stressed
21	1,1,2-Trichloroethane		1,001.3	µg/mL	+/-	9.9585	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)			+/-	56.7176	µg/mL	Unstressed
	Purity 99%				+/-	58.0180	µg/mL	Stressed
22	1,3-Dichloropropane		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
23	Tetrachloroethene		1,000.2	µg/mL	+/-	9.9484	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	56.6603	µg/mL	Unstressed
	Purity 99%				+/-	57.9595	µg/mL	Stressed

24	Dibromochloromethane		1,000.5	µg/mL	+/-	9.9509	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)			+/-	56.6743	µg/mL	Unstressed
	Purity 97%				+/-	57.9738	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		1,000.1	µg/mL	+/-	9.9230	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 7511900)			+/-	56.6489	µg/mL	Unstressed
	Purity 99%				+/-	57.9480	µg/mL	Stressed
26	Chlorobenzene		1,001.4	µg/mL	+/-	9.9598	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	56.7253	µg/mL	Unstressed
	Purity 99%				+/-	58.0260	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		1,000.1	µg/mL	+/-	9.9230	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)			+/-	56.6489	µg/mL	Unstressed
	Purity 99%				+/-	57.9480	µg/mL	Stressed
28	Ethylbenzene		1,000.2	µg/mL	+/-	9.9235	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)			+/-	56.6517	µg/mL	Unstressed
	Purity 99%				+/-	57.9509	µg/mL	Stressed
29	m-Xylene		1,000.2	µg/mL	+/-	9.9235	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot 7ZV6F)			+/-	56.6517	µg/mL	Unstressed
	Purity 99%				+/-	57.9509	µg/mL	Stressed
30	p-Xylene		1,000.1	µg/mL	+/-	9.9224	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot D6UOA)			+/-	56.6453	µg/mL	Unstressed
	Purity 99%				+/-	57.9444	µg/mL	Stressed
31	o-Xylene		1,000.1	µg/mL	+/-	9.9225	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)			+/-	56.6460	µg/mL	Unstressed
	Purity 99%				+/-	57.9451	µg/mL	Stressed
32	Styrene		1,000.1	µg/mL	+/-	9.9231	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)			+/-	56.6496	µg/mL	Unstressed
	Purity 99%				+/-	57.9487	µg/mL	Stressed
33	Isopropylbenzene (cumene)		1,000.0	µg/mL	+/-	9.9220	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot JN4EC)			+/-	56.6432	µg/mL	Unstressed
	Purity 99%				+/-	57.9422	µg/mL	Stressed
34	Bromoform		1,001.7	µg/mL	+/-	9.9633	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 9170700)			+/-	56.7453	µg/mL	Unstressed
	Purity 99%				+/-	58.0464	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		1,001.6	µg/mL	+/-	9.9624	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot BCCB0724)			+/-	56.7398	µg/mL	Unstressed
	Purity 98%				+/-	58.0408	µg/mL	Stressed
36	1,2,3-Trichloropropane		1,000.0	µg/mL	+/-	9.9222	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)			+/-	56.6446	µg/mL	Unstressed
	Purity 99%				+/-	57.9436	µg/mL	Stressed
37	n-Propylbenzene		1,000.1	µg/mL	+/-	9.9224	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)			+/-	56.6453	µg/mL	Unstressed
	Purity 99%				+/-	57.9444	µg/mL	Stressed
38	Bromobenzene		1,000.2	µg/mL	+/-	9.9234	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 8DKWJ)			+/-	56.6510	µg/mL	Unstressed
	Purity 99%				+/-	57.9502	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		1,000.1	µg/mL	+/-	9.9225	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot TOOOF)			+/-	56.6460	µg/mL	Unstressed
	Purity 99%				+/-	57.9451	µg/mL	Stressed

40	2-Chlorotoluene		1,000.0	µg/mL	+/-	9.9220	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot BRHPM)			+/-	56.6432	µg/mL	Unstressed
	Purity 99%				+/-	57.9422	µg/mL	Stressed
41	4-Chlorotoluene		1,000.1	µg/mL	+/-	9.9227	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot S5SKD)			+/-	56.6475	µg/mL	Unstressed
	Purity 99%				+/-	57.9465	µg/mL	Stressed
42	tert-Butylbenzene		1,000.1	µg/mL	+/-	9.9226	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	56.6468	µg/mL	Unstressed
	Purity 99%				+/-	57.9458	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
44	sec-Butylbenzene		1,000.1	µg/mL	+/-	9.9226	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot O4HRF)			+/-	56.6468	µg/mL	Unstressed
	Purity 99%				+/-	57.9458	µg/mL	Stressed
45	4-Isopropyltoluene (p-cymene)		1,000.1	µg/mL	+/-	9.9226	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 8380000)			+/-	56.6468	µg/mL	Unstressed
	Purity 99%				+/-	57.9458	µg/mL	Stressed
46	1,3-Dichlorobenzene		1,000.1	µg/mL	+/-	9.9467	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	56.6504	µg/mL	Unstressed
	Purity 99%				+/-	57.9494	µg/mL	Stressed
47	1,4-Dichlorobenzene		1,002.5	µg/mL	+/-	9.9708	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot YWKDC-MK)			+/-	56.7875	µg/mL	Unstressed
	Purity 99%				+/-	58.0896	µg/mL	Stressed
48	n-Butylbenzene		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
49	1,2-Dichlorobenzene		1,001.6	µg/mL	+/-	9.9619	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	56.7374	µg/mL	Unstressed
	Purity 99%				+/-	58.0383	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		1,000.0	µg/mL	+/-	9.9220	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot Q135-105)			+/-	56.6432	µg/mL	Unstressed
	Purity 99%				+/-	57.9422	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		1,000.1	µg/mL	+/-	9.9224	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot IGLFA)			+/-	56.6453	µg/mL	Unstressed
	Purity 99%				+/-	57.9444	µg/mL	Stressed
52	Hexachlorobutadiene		1,000.8	µg/mL	+/-	9.9297	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 8532700)			+/-	56.6870	µg/mL	Unstressed
	Purity 97%				+/-	57.9870	µg/mL	Stressed
53	Naphthalene		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot SKZ5N)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		1,000.7	µg/mL	+/-	9.9292	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/-	56.6844	µg/mL	Unstressed
	Purity 98%				+/-	57.9843	µg/mL	Stressed

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

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

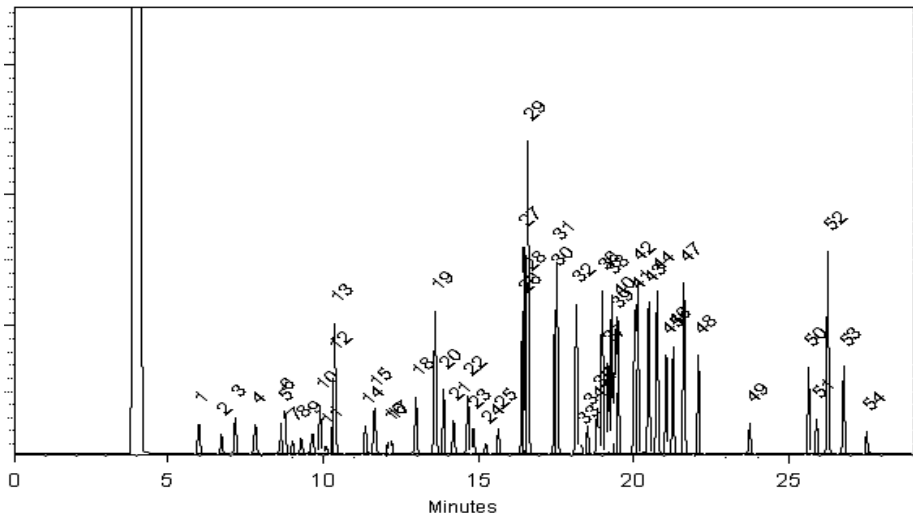
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Katelyn McGinni - Operations Tech I

Date Mixed: 21-Apr-2022 **Balance:** B345965662

Marlina Cowan - Operations Tech I

Date Passed: 27-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX2SEC_00081

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577494 **Lot No.:** A0171837

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, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Pentane (C5)	1,002.0 µg/mL	+/- 5.8803 µg/mL	Gravimetric
	CAS # 109-66-0.SEC (Lot FGH02)		+/- 49.5732 µg/mL	Unstressed
	Purity 99%		+/- 50.8056 µg/mL	Stressed
2	2-Propanol (isopropanol)	7,501.5 µg/mL	+/- 43.9229 µg/mL	Gravimetric
	CAS # 67-63-0.SEC (Lot TFT5I)		+/- 371.1195 µg/mL	Unstressed
	Purity 99%		+/- 380.3459 µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,002.0 µg/mL	+/- 5.8803 µg/mL	Gravimetric
	CAS # 76-13-1.SEC (Lot 18342)		+/- 49.5732 µg/mL	Unstressed
	Purity 99%		+/- 50.8056 µg/mL	Stressed
4	tert-Butanol (TBA)	10,001.0 µg/mL	+/- 58.5581 µg/mL	Gravimetric
	CAS # 75-65-0.SEC (Lot 5REPK)		+/- 494.7765 µg/mL	Unstressed
	Purity 99%		+/- 507.0771 µg/mL	Stressed
5	Methyl acetate	1,002.5 µg/mL	+/- 5.8832 µg/mL	Gravimetric
	CAS # 79-20-9.SEC (Lot YDGVD)		+/- 49.5980 µg/mL	Unstressed
	Purity 99%		+/- 50.8309 µg/mL	Stressed
6	Iodomethane (methyl iodide)	1,001.5 µg/mL	+/- 5.8774 µg/mL	Gravimetric
	CAS # 74-88-4.SEC (Lot Y25A027)		+/- 49.5485 µg/mL	Unstressed
	Purity 99%		+/- 50.7802 µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	1,002.0 µg/mL	+/- 5.8803 µg/mL	Gravimetric
	CAS # 107-05-1.SEC (Lot H3HGC)		+/- 49.5732 µg/mL	Unstressed
	Purity 99%		+/- 50.8056 µg/mL	Stressed

8	Carbon disulfide		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 75-15-0.SEC	(Lot MKBL1376V)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
9	Acrylonitrile		5,000.5	µg/mL	+/-	29.2790	µg/mL	Gravimetric
	CAS # 107-13-1.SEC	(Lot V54AD)			+/-	247.3882	µg/mL	Unstressed
	Purity 99%				+/-	253.5386	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC	(Lot ZHKYA)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
11	n-Hexane (C6)		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot 10188491)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		1,003.0	µg/mL	+/-	5.8862	µg/mL	Gravimetric
	CAS # 108-20-3.SEC	(Lot LL7TN-SH)			+/-	49.6227	µg/mL	Unstressed
	Purity 99%				+/-	50.8563	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210413JLM)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		1,002.1	µg/mL	+/-	5.8806	µg/mL	Gravimetric
	CAS # 637-92-3.SEC	(Lot UCI5B)			+/-	49.5757	µg/mL	Unstressed
	Purity 98%				+/-	50.8081	µg/mL	Stressed
15	Propionitrile		7,501.5	µg/mL	+/-	43.9229	µg/mL	Gravimetric
	CAS # 107-12-0.SEC	(Lot N44LF)			+/-	371.1195	µg/mL	Unstressed
	Purity 99%				+/-	380.3459	µg/mL	Stressed
16	Methacrylonitrile		7,501.5	µg/mL	+/-	43.9229	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012014)			+/-	371.1195	µg/mL	Unstressed
	Purity 99%				+/-	380.3459	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		25,001.0	µg/mL	+/-	146.3864	µg/mL	Gravimetric
	CAS # 78-83-1.SEC	(Lot YNG3K)			+/-	1,236.8670	µg/mL	Unstressed
	Purity 99%				+/-	1,267.6168	µg/mL	Stressed
18	Tetrahydrofuran		5,000.5	µg/mL	+/-	29.2790	µg/mL	Gravimetric
	CAS # 109-99-9.SEC	(Lot 3NYHE)			+/-	247.3882	µg/mL	Unstressed
	Purity 99%				+/-	253.5386	µg/mL	Stressed
19	Cyclohexane		1,000.0	µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	49.4743	µg/mL	Unstressed
	Purity 99%				+/-	50.7042	µg/mL	Stressed
20	1-Butanol		50,004.5	µg/mL	+/-	292.7722	µg/mL	Gravimetric
	CAS # 71-36-3.SEC	(Lot 6B6UL)			+/-	2,473.8558	µg/mL	Unstressed
	Purity 99%				+/-	2,535.3586	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 994-05-8.SEC	(Lot 11010100)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
22	n-Heptane (C7)		1,002.5	µg/mL	+/-	5.8832	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot TFHUC)			+/-	49.5980	µg/mL	Unstressed
	Purity 99%				+/-	50.8309	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		1,000.5	µg/mL	+/-	5.8715	µg/mL	Gravimetric
	CAS # 919-94-8.SEC	(Lot 11370700)			+/-	49.4990	µg/mL	Unstressed
	Purity 99%				+/-	50.7295	µg/mL	Stressed

24	Methylcyclohexane		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot Q02QG)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
25	Methyl methacrylate		1,000.5	µg/mL	+/-	5.8715	µg/mL	Gravimetric
	CAS # 80-62-6.SEC	(Lot G01X021)			+/-	49.4990	µg/mL	Unstressed
	Purity 99%				+/-	50.7295	µg/mL	Stressed
26	1,4-Dioxane		25,004.0	µg/mL	+/-	146.4039	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot KLE2K)			+/-	1,237.0154	µg/mL	Unstressed
	Purity 99%				+/-	1,267.7689	µg/mL	Stressed
27	2-Nitropropane		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 79-46-9.SEC	(Lot F43IA)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
28	Ethyl methacrylate		1,000.0	µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot MLWYK-LS)			+/-	49.4743	µg/mL	Unstressed
	Purity 99%				+/-	50.7042	µg/mL	Stressed
29	1-Chlorohexane		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 544-10-5.SEC	(Lot 8171700)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
30	trans-1,4-Dichloro-2-butene		5,000.4	µg/mL	+/-	29.2781	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot 100700-3)			+/-	247.3808	µg/mL	Unstressed
	Purity 97%				+/-	253.5310	µg/mL	Stressed
31	1,2,3-Trimethylbenzene		1,001.1	µg/mL	+/-	5.8748	µg/mL	Gravimetric
	CAS # 526-73-8.SEC	(Lot 11386600)			+/-	49.5272	µg/mL	Unstressed
	Purity 98%				+/-	50.7584	µg/mL	Stressed
32	1,3-Diethylbenzene		1,003.5	µg/mL	+/-	5.8891	µg/mL	Gravimetric
	CAS # 141-93-5.SEC	(Lot 113566-1)			+/-	49.6474	µg/mL	Unstressed
	Purity 99%				+/-	50.8816	µg/mL	Stressed
33	Benzyl chloride		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 100-44-7.SEC	(Lot H29N03)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
34	1,4-Diethylbenzene		1,002.1	µg/mL	+/-	5.8806	µg/mL	Gravimetric
	CAS # 105-05-5.SEC	(Lot FBQ02)			+/-	49.5757	µg/mL	Unstressed
	Purity 98%				+/-	50.8081	µg/mL	Stressed
35	1,2-Diethylbenzene		1,000.5	µg/mL	+/-	5.8715	µg/mL	Gravimetric
	CAS # 135-01-3.SEC	(Lot BCBF3667V)			+/-	49.4990	µg/mL	Unstressed
	Purity 99%				+/-	50.7295	µg/mL	Stressed
36	1,3,5-Trichlorobenzene		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 108-70-3.SEC	(Lot I28U021)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
37	2-Methylnaphthalene		1,000.0	µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 91-57-6.SEC	(Lot 76023-1)			+/-	49.4743	µg/mL	Unstressed
	Purity 99%				+/-	50.7042	µg/mL	Stressed

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

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

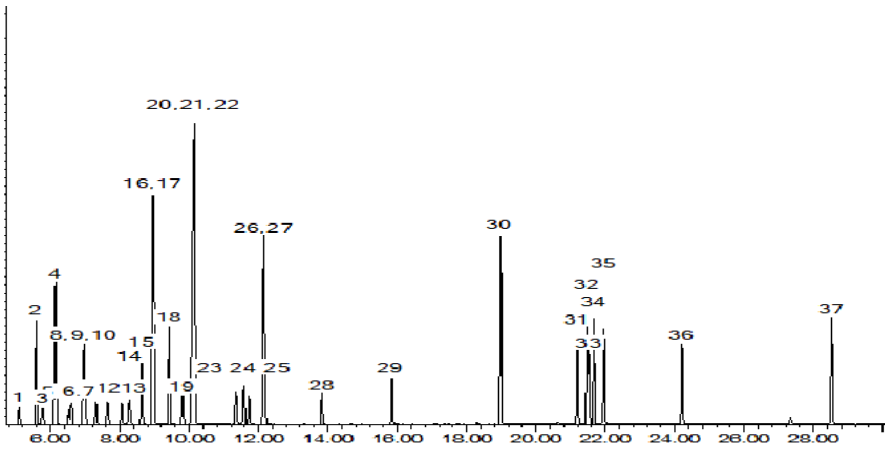
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Date Mixed: 28-Apr-2021 **Balance:** 1128353505

Alexis Shelow - Operations Tech I

Date Passed: 04-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX2SEC_00091

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577494 **Lot No.:** A0184412

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, 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	n-Pentane (C5)	1,008.7 µg/mL	+/- 5.9912	µg/mL	Gravimetric
	CAS # 109-66-0.SEC (Lot FGH02)		+/- 49.9116	µg/mL	Unstressed
	Purity 99%		+/- 51.1520	µg/mL	Stressed
2	2-Propanol (isopropanol)	7,505.3 µg/mL	+/- 43.9454	µg/mL	Gravimetric
	CAS # 67-63-0.SEC (Lot G6HNF)		+/- 371.3091	µg/mL	Unstressed
	Purity 99%		+/- 380.5402	µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,010.0 µg/mL	+/- 5.9991	µg/mL	Gravimetric
	CAS # 76-13-1.SEC (Lot 18342)		+/- 49.9776	µg/mL	Unstressed
	Purity 99%		+/- 51.2196	µg/mL	Stressed
4	tert-Butanol (TBA)	10,043.3 µg/mL	+/- 58.8059	µg/mL	Gravimetric
	CAS # 75-65-0.SEC (Lot ZSJ2O)		+/- 496.8708	µg/mL	Unstressed
	Purity 99%		+/- 509.2235	µg/mL	Stressed
5	Methyl acetate	1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 79-20-9.SEC (Lot UCNEL)		+/- 49.5817	µg/mL	Unstressed
	Purity 99%		+/- 50.8139	µg/mL	Stressed
6	Iodomethane (methyl iodide)	1,003.3 µg/mL	+/- 5.9595	µg/mL	Gravimetric
	CAS # 74-88-4.SEC (Lot Y25A027)		+/- 49.6477	µg/mL	Unstressed
	Purity 99%		+/- 50.8815	µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	1,003.3 µg/mL	+/- 5.9595	µg/mL	Gravimetric
	CAS # 107-05-1.SEC (Lot RD210329)		+/- 49.6477	µg/mL	Unstressed
	Purity 99%		+/- 50.8815	µg/mL	Stressed

8	Carbon disulfide		1,008.7	µg/mL	+/-	5.9912	µg/mL	Gravimetric
	CAS # 75-15-0.SEC	(Lot MKBL1376V)			+/-	49.9116	µg/mL	Unstressed
	Purity 99%				+/-	51.1520	µg/mL	Stressed
9	Acrylonitrile		5,034.7	µg/mL	+/-	29.5462	µg/mL	Gravimetric
	CAS # 107-13-1.SEC	(Lot V54AD)			+/-	249.0865	µg/mL	Unstressed
	Purity 99%				+/-	255.2787	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		1,008.0	µg/mL	+/-	5.9872	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC	(Lot ZHKYA)			+/-	49.8786	µg/mL	Unstressed
	Purity 99%				+/-	51.1182	µg/mL	Stressed
11	n-Hexane (C6)		1,002.7	µg/mL	+/-	5.9555	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot 10188491)			+/-	49.6147	µg/mL	Unstressed
	Purity 99%				+/-	50.8477	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		1,002.7	µg/mL	+/-	5.9555	µg/mL	Gravimetric
	CAS # 108-20-3.SEC	(Lot LL7TN-SH)			+/-	49.6147	µg/mL	Unstressed
	Purity 99%				+/-	50.8477	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		1,006.7	µg/mL	+/-	5.9793	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210927JLM)			+/-	49.8127	µg/mL	Unstressed
	Purity 99%				+/-	51.0506	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		1,004.2	µg/mL	+/-	5.9645	µg/mL	Gravimetric
	CAS # 637-92-3.SEC	(Lot UCI5B)			+/-	49.6893	µg/mL	Unstressed
	Purity 98%				+/-	50.9241	µg/mL	Stressed
15	Propionitrile		7,512.7	µg/mL	+/-	43.9883	µg/mL	Gravimetric
	CAS # 107-12-0.SEC	(Lot PS48O)			+/-	371.6719	µg/mL	Unstressed
	Purity 99%				+/-	380.9121	µg/mL	Stressed
16	Methacrylonitrile		7,502.7	µg/mL	+/-	43.9298	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012020)			+/-	371.1772	µg/mL	Unstressed
	Purity 99%				+/-	380.4050	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		25,034.0	µg/mL	+/-	146.5796	µg/mL	Gravimetric
	CAS # 78-83-1.SEC	(Lot YNG3K)			+/-	1,238.4996	µg/mL	Unstressed
	Purity 99%				+/-	1,269.2900	µg/mL	Stressed
18	Tetrahydrofuran		5,008.7	µg/mL	+/-	29.3937	µg/mL	Gravimetric
	CAS # 109-99-9.SEC	(Lot 3NYHE)			+/-	247.8002	µg/mL	Unstressed
	Purity 99%				+/-	253.9604	µg/mL	Stressed
19	Cyclohexane		1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	49.6807	µg/mL	Unstressed
	Purity 99%				+/-	50.9153	µg/mL	Stressed
20	1-Butanol		50,012.0	µg/mL	+/-	292.8313	µg/mL	Gravimetric
	CAS # 71-36-3.SEC	(Lot RSHAH)			+/-	2,474.2286	µg/mL	Unstressed
	Purity 99%				+/-	2,535.7406	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		1,009.4	µg/mL	+/-	5.9955	µg/mL	Gravimetric
	CAS # 994-05-8.SEC	(Lot 12075100)			+/-	49.9479	µg/mL	Unstressed
	Purity 98%				+/-	51.1892	µg/mL	Stressed
22	n-Heptane (C7)		1,007.3	µg/mL	+/-	5.9833	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot TFHUC)			+/-	49.8456	µg/mL	Unstressed
	Purity 99%				+/-	51.0844	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		1,004.7	µg/mL	+/-	5.9674	µg/mL	Gravimetric
	CAS # 919-94-8.SEC	(Lot 11370700)			+/-	49.7137	µg/mL	Unstressed
	Purity 99%				+/-	50.9491	µg/mL	Stressed

24	Methylcyclohexane		1,005.3	µg/mL	+/-	5.9714	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot Q02QG)			+/-	49.7467	µg/mL	Unstressed
	Purity 99%				+/-	50.9829	µg/mL	Stressed
25	Methyl methacrylate		1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
	CAS # 80-62-6.SEC	(Lot G01X021)			+/-	49.6807	µg/mL	Unstressed
	Purity 99%				+/-	50.9153	µg/mL	Stressed
26	1,4-Dioxane		25,019.3	µg/mL	+/-	146.4937	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot KLE2K)			+/-	1,237.7740	µg/mL	Unstressed
	Purity 99%				+/-	1,268.5463	µg/mL	Stressed
27	2-Nitropropane		1,010.0	µg/mL	+/-	5.9991	µg/mL	Gravimetric
	CAS # 79-46-9.SEC	(Lot F43IA)			+/-	49.9776	µg/mL	Unstressed
	Purity 99%				+/-	51.2196	µg/mL	Stressed
28	Ethyl methacrylate		1,001.3	µg/mL	+/-	5.9476	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot AQSPO)			+/-	49.5487	µg/mL	Unstressed
	Purity 99%				+/-	50.7801	µg/mL	Stressed
29	1-Chlorohexane		1,000.7	µg/mL	+/-	5.9437	µg/mL	Gravimetric
	CAS # 544-10-5.SEC	(Lot 13075400)			+/-	49.5158	µg/mL	Unstressed
	Purity 99%				+/-	50.7463	µg/mL	Stressed
30	trans-1,4-Dichloro-2-butene		5,014.9	µg/mL	+/-	29.4302	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot RD220126S)			+/-	248.1086	µg/mL	Unstressed
	Purity 97%				+/-	254.2764	µg/mL	Stressed
31	1,2,3-Trimethylbenzene		1,003.5	µg/mL	+/-	5.9606	µg/mL	Gravimetric
	CAS # 526-73-8.SEC	(Lot 11386600)			+/-	49.6569	µg/mL	Unstressed
	Purity 98%				+/-	50.8910	µg/mL	Stressed
32	1,3-Diethylbenzene		1,001.3	µg/mL	+/-	5.9476	µg/mL	Gravimetric
	CAS # 141-93-5.SEC	(Lot 113566-1)			+/-	49.5487	µg/mL	Unstressed
	Purity 99%				+/-	50.7801	µg/mL	Stressed
33	Benzyl chloride		1,001.3	µg/mL	+/-	5.9476	µg/mL	Gravimetric
	CAS # 100-44-7.SEC	(Lot H29N03)			+/-	49.5487	µg/mL	Unstressed
	Purity 99%				+/-	50.7801	µg/mL	Stressed
34	1,4-Diethylbenzene		1,001.6	µg/mL	+/-	5.9490	µg/mL	Gravimetric
	CAS # 105-05-5.SEC	(Lot FBQ02)			+/-	49.5600	µg/mL	Unstressed
	Purity 98%				+/-	50.7916	µg/mL	Stressed
35	1,2-Diethylbenzene		1,002.0	µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 135-01-3.SEC	(Lot BCBF3667V)			+/-	49.5817	µg/mL	Unstressed
	Purity 99%				+/-	50.8139	µg/mL	Stressed
36	1,3,5-Trichlorobenzene		1,009.3	µg/mL	+/-	5.9951	µg/mL	Gravimetric
	CAS # 108-70-3.SEC	(Lot I28U021)			+/-	49.9446	µg/mL	Unstressed
	Purity 99%				+/-	51.1858	µg/mL	Stressed
37	2-Methylnaphthalene		1,002.7	µg/mL	+/-	5.9555	µg/mL	Gravimetric
	CAS # 91-57-6.SEC	(Lot 76023-1)			+/-	49.6147	µg/mL	Unstressed
	Purity 99%				+/-	50.8477	µg/mL	Stressed

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

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

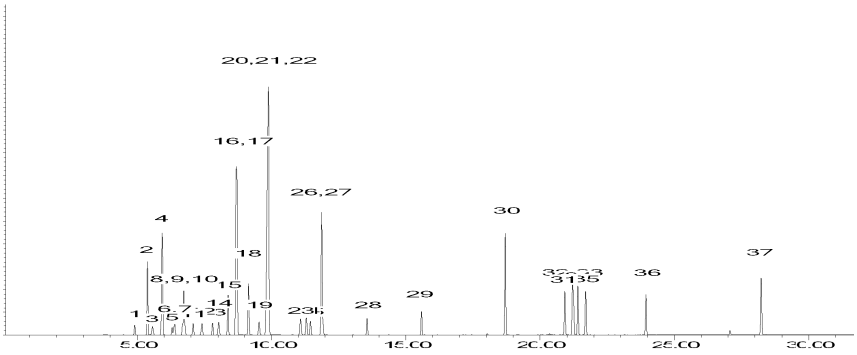
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Lane Kibe - Mix Technician

Date Mixed: 22-Apr-2022 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX2SEC_00094

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577494 **Lot No.:** A0184412

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, 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	n-Pentane (C5)	1,008.7 µg/mL	+/- 5.9912 µg/mL	Gravimetric
	CAS # 109-66-0.SEC (Lot FGH02)		+/- 49.9116 µg/mL	Unstressed
	Purity 99%		+/- 51.1520 µg/mL	Stressed
2	2-Propanol (isopropanol)	7,505.3 µg/mL	+/- 43.9454 µg/mL	Gravimetric
	CAS # 67-63-0.SEC (Lot G6HNF)		+/- 371.3091 µg/mL	Unstressed
	Purity 99%		+/- 380.5402 µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,010.0 µg/mL	+/- 5.9991 µg/mL	Gravimetric
	CAS # 76-13-1.SEC (Lot 18342)		+/- 49.9776 µg/mL	Unstressed
	Purity 99%		+/- 51.2196 µg/mL	Stressed
4	tert-Butanol (TBA)	10,043.3 µg/mL	+/- 58.8059 µg/mL	Gravimetric
	CAS # 75-65-0.SEC (Lot ZSJ2O)		+/- 496.8708 µg/mL	Unstressed
	Purity 99%		+/- 509.2235 µg/mL	Stressed
5	Methyl acetate	1,002.0 µg/mL	+/- 5.9516 µg/mL	Gravimetric
	CAS # 79-20-9.SEC (Lot UCNEL)		+/- 49.5817 µg/mL	Unstressed
	Purity 99%		+/- 50.8139 µg/mL	Stressed
6	Iodomethane (methyl iodide)	1,003.3 µg/mL	+/- 5.9595 µg/mL	Gravimetric
	CAS # 74-88-4.SEC (Lot Y25A027)		+/- 49.6477 µg/mL	Unstressed
	Purity 99%		+/- 50.8815 µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	1,003.3 µg/mL	+/- 5.9595 µg/mL	Gravimetric
	CAS # 107-05-1.SEC (Lot RD210329)		+/- 49.6477 µg/mL	Unstressed
	Purity 99%		+/- 50.8815 µg/mL	Stressed

8	Carbon disulfide		1,008.7	µg/mL	+/-	5.9912	µg/mL	Gravimetric
	CAS # 75-15-0.SEC	(Lot MKBL1376V)			+/-	49.9116	µg/mL	Unstressed
	Purity 99%				+/-	51.1520	µg/mL	Stressed
9	Acrylonitrile		5,034.7	µg/mL	+/-	29.5462	µg/mL	Gravimetric
	CAS # 107-13-1.SEC	(Lot V54AD)			+/-	249.0865	µg/mL	Unstressed
	Purity 99%				+/-	255.2787	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		1,008.0	µg/mL	+/-	5.9872	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC	(Lot ZHKYA)			+/-	49.8786	µg/mL	Unstressed
	Purity 99%				+/-	51.1182	µg/mL	Stressed
11	n-Hexane (C6)		1,002.7	µg/mL	+/-	5.9555	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot 10188491)			+/-	49.6147	µg/mL	Unstressed
	Purity 99%				+/-	50.8477	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		1,002.7	µg/mL	+/-	5.9555	µg/mL	Gravimetric
	CAS # 108-20-3.SEC	(Lot LL7TN-SH)			+/-	49.6147	µg/mL	Unstressed
	Purity 99%				+/-	50.8477	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		1,006.7	µg/mL	+/-	5.9793	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210927JLM)			+/-	49.8127	µg/mL	Unstressed
	Purity 99%				+/-	51.0506	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		1,004.2	µg/mL	+/-	5.9645	µg/mL	Gravimetric
	CAS # 637-92-3.SEC	(Lot UCI5B)			+/-	49.6893	µg/mL	Unstressed
	Purity 98%				+/-	50.9241	µg/mL	Stressed
15	Propionitrile		7,512.7	µg/mL	+/-	43.9883	µg/mL	Gravimetric
	CAS # 107-12-0.SEC	(Lot PS48O)			+/-	371.6719	µg/mL	Unstressed
	Purity 99%				+/-	380.9121	µg/mL	Stressed
16	Methacrylonitrile		7,502.7	µg/mL	+/-	43.9298	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012020)			+/-	371.1772	µg/mL	Unstressed
	Purity 99%				+/-	380.4050	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		25,034.0	µg/mL	+/-	146.5796	µg/mL	Gravimetric
	CAS # 78-83-1.SEC	(Lot YNG3K)			+/-	1,238.4996	µg/mL	Unstressed
	Purity 99%				+/-	1,269.2900	µg/mL	Stressed
18	Tetrahydrofuran		5,008.7	µg/mL	+/-	29.3937	µg/mL	Gravimetric
	CAS # 109-99-9.SEC	(Lot 3NYHE)			+/-	247.8002	µg/mL	Unstressed
	Purity 99%				+/-	253.9604	µg/mL	Stressed
19	Cyclohexane		1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	49.6807	µg/mL	Unstressed
	Purity 99%				+/-	50.9153	µg/mL	Stressed
20	1-Butanol		50,012.0	µg/mL	+/-	292.8313	µg/mL	Gravimetric
	CAS # 71-36-3.SEC	(Lot RSHAH)			+/-	2,474.2286	µg/mL	Unstressed
	Purity 99%				+/-	2,535.7406	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		1,009.4	µg/mL	+/-	5.9955	µg/mL	Gravimetric
	CAS # 994-05-8.SEC	(Lot 12075100)			+/-	49.9479	µg/mL	Unstressed
	Purity 98%				+/-	51.1892	µg/mL	Stressed
22	n-Heptane (C7)		1,007.3	µg/mL	+/-	5.9833	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot TFHUC)			+/-	49.8456	µg/mL	Unstressed
	Purity 99%				+/-	51.0844	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		1,004.7	µg/mL	+/-	5.9674	µg/mL	Gravimetric
	CAS # 919-94-8.SEC	(Lot 11370700)			+/-	49.7137	µg/mL	Unstressed
	Purity 99%				+/-	50.9491	µg/mL	Stressed

24	Methylcyclohexane		1,005.3	µg/mL	+/-	5.9714	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot Q02QG)			+/-	49.7467	µg/mL	Unstressed
	Purity 99%				+/-	50.9829	µg/mL	Stressed
25	Methyl methacrylate		1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
	CAS # 80-62-6.SEC	(Lot G01X021)			+/-	49.6807	µg/mL	Unstressed
	Purity 99%				+/-	50.9153	µg/mL	Stressed
26	1,4-Dioxane		25,019.3	µg/mL	+/-	146.4937	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot KLE2K)			+/-	1,237.7740	µg/mL	Unstressed
	Purity 99%				+/-	1,268.5463	µg/mL	Stressed
27	2-Nitropropane		1,010.0	µg/mL	+/-	5.9991	µg/mL	Gravimetric
	CAS # 79-46-9.SEC	(Lot F43IA)			+/-	49.9776	µg/mL	Unstressed
	Purity 99%				+/-	51.2196	µg/mL	Stressed
28	Ethyl methacrylate		1,001.3	µg/mL	+/-	5.9476	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot AQSPO)			+/-	49.5487	µg/mL	Unstressed
	Purity 99%				+/-	50.7801	µg/mL	Stressed
29	1-Chlorohexane		1,000.7	µg/mL	+/-	5.9437	µg/mL	Gravimetric
	CAS # 544-10-5.SEC	(Lot 13075400)			+/-	49.5158	µg/mL	Unstressed
	Purity 99%				+/-	50.7463	µg/mL	Stressed
30	trans-1,4-Dichloro-2-butene		5,014.9	µg/mL	+/-	29.4302	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot RD220126S)			+/-	248.1086	µg/mL	Unstressed
	Purity 97%				+/-	254.2764	µg/mL	Stressed
31	1,2,3-Trimethylbenzene		1,003.5	µg/mL	+/-	5.9606	µg/mL	Gravimetric
	CAS # 526-73-8.SEC	(Lot 11386600)			+/-	49.6569	µg/mL	Unstressed
	Purity 98%				+/-	50.8910	µg/mL	Stressed
32	1,3-Diethylbenzene		1,001.3	µg/mL	+/-	5.9476	µg/mL	Gravimetric
	CAS # 141-93-5.SEC	(Lot 113566-1)			+/-	49.5487	µg/mL	Unstressed
	Purity 99%				+/-	50.7801	µg/mL	Stressed
33	Benzyl chloride		1,001.3	µg/mL	+/-	5.9476	µg/mL	Gravimetric
	CAS # 100-44-7.SEC	(Lot H29N03)			+/-	49.5487	µg/mL	Unstressed
	Purity 99%				+/-	50.7801	µg/mL	Stressed
34	1,4-Diethylbenzene		1,001.6	µg/mL	+/-	5.9490	µg/mL	Gravimetric
	CAS # 105-05-5.SEC	(Lot FBQ02)			+/-	49.5600	µg/mL	Unstressed
	Purity 98%				+/-	50.7916	µg/mL	Stressed
35	1,2-Diethylbenzene		1,002.0	µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 135-01-3.SEC	(Lot BCBF3667V)			+/-	49.5817	µg/mL	Unstressed
	Purity 99%				+/-	50.8139	µg/mL	Stressed
36	1,3,5-Trichlorobenzene		1,009.3	µg/mL	+/-	5.9951	µg/mL	Gravimetric
	CAS # 108-70-3.SEC	(Lot I28U021)			+/-	49.9446	µg/mL	Unstressed
	Purity 99%				+/-	51.1858	µg/mL	Stressed
37	2-Methylnaphthalene		1,002.7	µg/mL	+/-	5.9555	µg/mL	Gravimetric
	CAS # 91-57-6.SEC	(Lot 76023-1)			+/-	49.6147	µg/mL	Unstressed
	Purity 99%				+/-	50.8477	µg/mL	Stressed

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

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

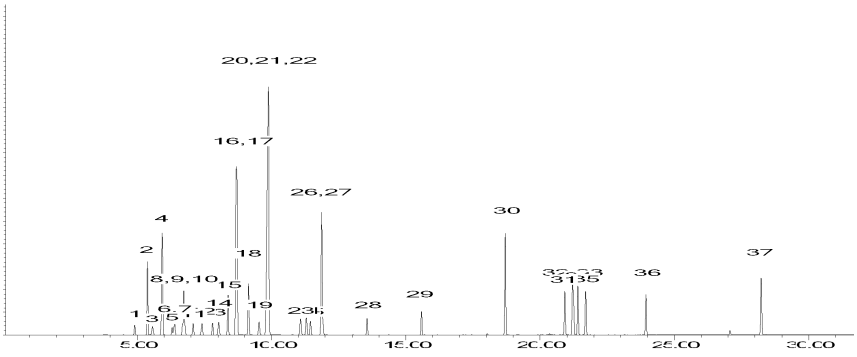
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Lane Kibe - Mix Technician

Date Mixed: 22-Apr-2022 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX2SEC_00095

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577494 **Lot No.:** A0184412

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, 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	n-Pentane (C5)	1,008.7 µg/mL	+/- 5.9912	µg/mL	Gravimetric
	CAS # 109-66-0.SEC (Lot FGH02)		+/- 49.9116	µg/mL	Unstressed
	Purity 99%		+/- 51.1520	µg/mL	Stressed
2	2-Propanol (isopropanol)	7,505.3 µg/mL	+/- 43.9454	µg/mL	Gravimetric
	CAS # 67-63-0.SEC (Lot G6HNF)		+/- 371.3091	µg/mL	Unstressed
	Purity 99%		+/- 380.5402	µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,010.0 µg/mL	+/- 5.9991	µg/mL	Gravimetric
	CAS # 76-13-1.SEC (Lot 18342)		+/- 49.9776	µg/mL	Unstressed
	Purity 99%		+/- 51.2196	µg/mL	Stressed
4	tert-Butanol (TBA)	10,043.3 µg/mL	+/- 58.8059	µg/mL	Gravimetric
	CAS # 75-65-0.SEC (Lot ZSJ2O)		+/- 496.8708	µg/mL	Unstressed
	Purity 99%		+/- 509.2235	µg/mL	Stressed
5	Methyl acetate	1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 79-20-9.SEC (Lot UCNEL)		+/- 49.5817	µg/mL	Unstressed
	Purity 99%		+/- 50.8139	µg/mL	Stressed
6	Iodomethane (methyl iodide)	1,003.3 µg/mL	+/- 5.9595	µg/mL	Gravimetric
	CAS # 74-88-4.SEC (Lot Y25A027)		+/- 49.6477	µg/mL	Unstressed
	Purity 99%		+/- 50.8815	µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	1,003.3 µg/mL	+/- 5.9595	µg/mL	Gravimetric
	CAS # 107-05-1.SEC (Lot RD210329)		+/- 49.6477	µg/mL	Unstressed
	Purity 99%		+/- 50.8815	µg/mL	Stressed

8	Carbon disulfide		1,008.7	µg/mL	+/-	5.9912	µg/mL	Gravimetric
	CAS # 75-15-0.SEC	(Lot MKBL1376V)			+/-	49.9116	µg/mL	Unstressed
	Purity 99%				+/-	51.1520	µg/mL	Stressed
9	Acrylonitrile		5,034.7	µg/mL	+/-	29.5462	µg/mL	Gravimetric
	CAS # 107-13-1.SEC	(Lot V54AD)			+/-	249.0865	µg/mL	Unstressed
	Purity 99%				+/-	255.2787	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		1,008.0	µg/mL	+/-	5.9872	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC	(Lot ZHKYA)			+/-	49.8786	µg/mL	Unstressed
	Purity 99%				+/-	51.1182	µg/mL	Stressed
11	n-Hexane (C6)		1,002.7	µg/mL	+/-	5.9555	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot 10188491)			+/-	49.6147	µg/mL	Unstressed
	Purity 99%				+/-	50.8477	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		1,002.7	µg/mL	+/-	5.9555	µg/mL	Gravimetric
	CAS # 108-20-3.SEC	(Lot LL7TN-SH)			+/-	49.6147	µg/mL	Unstressed
	Purity 99%				+/-	50.8477	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		1,006.7	µg/mL	+/-	5.9793	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210927JLM)			+/-	49.8127	µg/mL	Unstressed
	Purity 99%				+/-	51.0506	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		1,004.2	µg/mL	+/-	5.9645	µg/mL	Gravimetric
	CAS # 637-92-3.SEC	(Lot UCI5B)			+/-	49.6893	µg/mL	Unstressed
	Purity 98%				+/-	50.9241	µg/mL	Stressed
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	CAS # 107-12-0.SEC	(Lot PS48O)			+/-	371.6719	µg/mL	Unstressed
	Purity 99%				+/-	380.9121	µg/mL	Stressed
16	Methacrylonitrile		7,502.7	µg/mL	+/-	43.9298	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012020)			+/-	371.1772	µg/mL	Unstressed
	Purity 99%				+/-	380.4050	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		25,034.0	µg/mL	+/-	146.5796	µg/mL	Gravimetric
	CAS # 78-83-1.SEC	(Lot YNG3K)			+/-	1,238.4996	µg/mL	Unstressed
	Purity 99%				+/-	1,269.2900	µg/mL	Stressed
18	Tetrahydrofuran		5,008.7	µg/mL	+/-	29.3937	µg/mL	Gravimetric
	CAS # 109-99-9.SEC	(Lot 3NYHE)			+/-	247.8002	µg/mL	Unstressed
	Purity 99%				+/-	253.9604	µg/mL	Stressed
19	Cyclohexane		1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	49.6807	µg/mL	Unstressed
	Purity 99%				+/-	50.9153	µg/mL	Stressed
20	1-Butanol		50,012.0	µg/mL	+/-	292.8313	µg/mL	Gravimetric
	CAS # 71-36-3.SEC	(Lot RSHAH)			+/-	2,474.2286	µg/mL	Unstressed
	Purity 99%				+/-	2,535.7406	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		1,009.4	µg/mL	+/-	5.9955	µg/mL	Gravimetric
	CAS # 994-05-8.SEC	(Lot 12075100)			+/-	49.9479	µg/mL	Unstressed
	Purity 98%				+/-	51.1892	µg/mL	Stressed
22	n-Heptane (C7)		1,007.3	µg/mL	+/-	5.9833	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot TFHUC)			+/-	49.8456	µg/mL	Unstressed
	Purity 99%				+/-	51.0844	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		1,004.7	µg/mL	+/-	5.9674	µg/mL	Gravimetric
	CAS # 919-94-8.SEC	(Lot 11370700)			+/-	49.7137	µg/mL	Unstressed
	Purity 99%				+/-	50.9491	µg/mL	Stressed

24	Methylcyclohexane		1,005.3	µg/mL	+/-	5.9714	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot Q02QG)			+/-	49.7467	µg/mL	Unstressed
	Purity 99%				+/-	50.9829	µg/mL	Stressed
25	Methyl methacrylate		1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
	CAS # 80-62-6.SEC	(Lot G01X021)			+/-	49.6807	µg/mL	Unstressed
	Purity 99%				+/-	50.9153	µg/mL	Stressed
26	1,4-Dioxane		25,019.3	µg/mL	+/-	146.4937	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot KLE2K)			+/-	1,237.7740	µg/mL	Unstressed
	Purity 99%				+/-	1,268.5463	µg/mL	Stressed
27	2-Nitropropane		1,010.0	µg/mL	+/-	5.9991	µg/mL	Gravimetric
	CAS # 79-46-9.SEC	(Lot F43IA)			+/-	49.9776	µg/mL	Unstressed
	Purity 99%				+/-	51.2196	µg/mL	Stressed
28	Ethyl methacrylate		1,001.3	µg/mL	+/-	5.9476	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot AQSPO)			+/-	49.5487	µg/mL	Unstressed
	Purity 99%				+/-	50.7801	µg/mL	Stressed
29	1-Chlorohexane		1,000.7	µg/mL	+/-	5.9437	µg/mL	Gravimetric
	CAS # 544-10-5.SEC	(Lot 13075400)			+/-	49.5158	µg/mL	Unstressed
	Purity 99%				+/-	50.7463	µg/mL	Stressed
30	trans-1,4-Dichloro-2-butene		5,014.9	µg/mL	+/-	29.4302	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot RD220126S)			+/-	248.1086	µg/mL	Unstressed
	Purity 97%				+/-	254.2764	µg/mL	Stressed
31	1,2,3-Trimethylbenzene		1,003.5	µg/mL	+/-	5.9606	µg/mL	Gravimetric
	CAS # 526-73-8.SEC	(Lot 11386600)			+/-	49.6569	µg/mL	Unstressed
	Purity 98%				+/-	50.8910	µg/mL	Stressed
32	1,3-Diethylbenzene		1,001.3	µg/mL	+/-	5.9476	µg/mL	Gravimetric
	CAS # 141-93-5.SEC	(Lot 113566-1)			+/-	49.5487	µg/mL	Unstressed
	Purity 99%				+/-	50.7801	µg/mL	Stressed
33	Benzyl chloride		1,001.3	µg/mL	+/-	5.9476	µg/mL	Gravimetric
	CAS # 100-44-7.SEC	(Lot H29N03)			+/-	49.5487	µg/mL	Unstressed
	Purity 99%				+/-	50.7801	µg/mL	Stressed
34	1,4-Diethylbenzene		1,001.6	µg/mL	+/-	5.9490	µg/mL	Gravimetric
	CAS # 105-05-5.SEC	(Lot FBQ02)			+/-	49.5600	µg/mL	Unstressed
	Purity 98%				+/-	50.7916	µg/mL	Stressed
35	1,2-Diethylbenzene		1,002.0	µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 135-01-3.SEC	(Lot BCBF3667V)			+/-	49.5817	µg/mL	Unstressed
	Purity 99%				+/-	50.8139	µg/mL	Stressed
36	1,3,5-Trichlorobenzene		1,009.3	µg/mL	+/-	5.9951	µg/mL	Gravimetric
	CAS # 108-70-3.SEC	(Lot I28U021)			+/-	49.9446	µg/mL	Unstressed
	Purity 99%				+/-	51.1858	µg/mL	Stressed
37	2-Methylnaphthalene		1,002.7	µg/mL	+/-	5.9555	µg/mL	Gravimetric
	CAS # 91-57-6.SEC	(Lot 76023-1)			+/-	49.6147	µg/mL	Unstressed
	Purity 99%				+/-	50.8477	µg/mL	Stressed

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

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

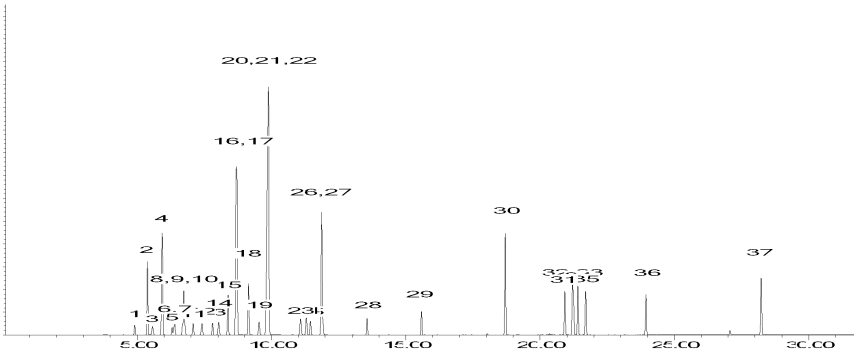
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Lane Kibe - Mix Technician

Date Mixed: 22-Apr-2022 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMIX#1_00082

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577486 **Lot No.:** A0171634

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, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-dichloroethene	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 75-35-4 (Lot SHBK2437)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 75-09-2 (Lot SHBL6169)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
3	trans-1,2-Dichloroethene	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 156-60-5 (Lot MKBH9850V)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
4	1,1-Dichloroethane	5,000.8 µg/mL	+/- 31.7079 µg/mL	Gravimetric
	CAS # 75-34-3 (Lot 580900)		+/- 280.6723 µg/mL	Unstressed
	Purity 99%		+/- 287.2265 µg/mL	Stressed
5	2,2-Dichloropropane	5,000.8 µg/mL	+/- 31.8970 µg/mL	Gravimetric
	CAS # 594-20-7 (Lot RD201111)		+/- 280.6965 µg/mL	Unstressed
	Purity 99%		+/- 287.2503 µg/mL	Stressed
6	cis-1,2-Dichloroethene	5,000.6 µg/mL	+/- 31.8957 µg/mL	Gravimetric
	CAS # 156-59-2 (Lot MKCK1803)		+/- 280.6853 µg/mL	Unstressed
	Purity 99%		+/- 287.2388 µg/mL	Stressed
7	chloroform	5,000.6 µg/mL	+/- 31.7067 µg/mL	Gravimetric
	CAS # 67-66-3 (Lot SHBL6923)		+/- 280.6618 µg/mL	Unstressed
	Purity 99%		+/- 287.2158 µg/mL	Stressed

8	Bromochloromethane		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00008541)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
9	1,1,1-trichloroethane		5,000.1	µg/mL	+/-	31.7041	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	280.6383	µg/mL	Unstressed
	Purity 98%				+/-	287.1917	µg/mL	Stressed
10	1,1-Dichloropropene		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 201106JLM)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
11	carbon tetrachloride		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBJ2110)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
12	1,2-Dichloroethane		5,000.4	µg/mL	+/-	31.7059	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot MKCM8716)			+/-	280.6548	µg/mL	Unstressed
	Purity 99%				+/-	287.2086	µg/mL	Stressed
13	Benzene		5,001.0	µg/mL	+/-	31.8982	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBM3620)			+/-	280.7078	µg/mL	Unstressed
	Purity 99%				+/-	287.2618	µg/mL	Stressed
14	Trichloroethene		5,000.8	µg/mL	+/-	31.7079	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBL5816)			+/-	280.6723	µg/mL	Unstressed
	Purity 99%				+/-	287.2265	µg/mL	Stressed
15	1,2-Dichloropropane		5,001.1	µg/mL	+/-	31.7099	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	280.6899	µg/mL	Unstressed
	Purity 99%				+/-	287.2445	µg/mL	Stressed
16	bromodichloromethane		5,000.2	µg/mL	+/-	31.7043	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCK3742)			+/-	280.6408	µg/mL	Unstressed
	Purity 99%				+/-	287.1942	µg/mL	Stressed
17	Dibromomethane		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10215970)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
18	cis-1,3-Dichloropropene		5,001.9	µg/mL	+/-	31.7154	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot D26147-1217)			+/-	280.7390	µg/mL	Unstressed
	Purity 99%				+/-	287.2947	µg/mL	Stressed
19	Toluene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot SHBM6128)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
20	trans-1,3-Dichloropropene		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot RP201030)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
21	1,1,2-Trichloroethane		5,000.9	µg/mL	+/-	31.7087	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	280.6794	µg/mL	Unstressed
	Purity 99%				+/-	287.2337	µg/mL	Stressed
22	1,3-Dichloropropane		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBC6265)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
23	Tetrachloroethene		5,000.8	µg/mL	+/-	31.7079	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBJ7422)			+/-	280.6723	µg/mL	Unstressed
	Purity 99%				+/-	287.2265	µg/mL	Stressed

24	dibromochloromethane		5,001.1	µg/mL	+/-	31.7099	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCK6472)			+/-	280.6899	µg/mL	Unstressed
	Purity 99%				+/-	287.2445	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBP2268V)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
26	Chlorobenzene		5,000.2	µg/mL	+/-	31.7043	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBL8110)			+/-	280.6408	µg/mL	Unstressed
	Purity 99%				+/-	287.1942	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot GC01)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
28	Ethylbenzene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBL9192)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
29	m-Xylene		5,001.8	µg/mL	+/-	31.9033	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBM4841)			+/-	280.7527	µg/mL	Unstressed
	Purity 99%				+/-	287.3077	µg/mL	Stressed
30	p-Xylene		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBJ7329)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
31	o-Xylene		5,001.8	µg/mL	+/-	31.9035	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBL3963)			+/-	280.7539	µg/mL	Unstressed
	Purity 98%				+/-	287.3090	µg/mL	Stressed
32	Styrene		5,001.7	µg/mL	+/-	31.9027	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKCM3200)			+/-	280.7471	µg/mL	Unstressed
	Purity 99%				+/-	287.3020	µg/mL	Stressed
33	Isopropylbenzene (cumene)		5,001.0	µg/mL	+/-	31.8982	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot P15E008)			+/-	280.7078	µg/mL	Unstressed
	Purity 99%				+/-	287.2618	µg/mL	Stressed
34	bromoform		5,000.4	µg/mL	+/-	31.7055	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBJ4835)			+/-	280.6513	µg/mL	Unstressed
	Purity 99%				+/-	287.2050	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		5,000.4	µg/mL	+/-	31.7059	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	280.6548	µg/mL	Unstressed
	Purity 99%				+/-	287.2086	µg/mL	Stressed
36	1,2,3-Trichloropropane		5,000.0	µg/mL	+/-	31.8918	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot BCBH8722V)			+/-	280.6516	µg/mL	Unstressed
	Purity 99%				+/-	287.2044	µg/mL	Stressed
37	n-Propylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKCM4174)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed
38	Bromobenzene		5,001.1	µg/mL	+/-	31.8989	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot WXBC5147V)			+/-	280.7134	µg/mL	Unstressed
	Purity 99%				+/-	287.2675	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCCD0427)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed

40	2-Chlorotoluene		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKCF5243)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
41	4-Chlorotoluene		5,000.1	µg/mL	+/-	31.8925	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKCC8496)			+/-	280.6572	µg/mL	Unstressed
	Purity 99%				+/-	287.2101	µg/mL	Stressed
42	tert-Butylbenzene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot STBJ1937)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		5,000.6	µg/mL	+/-	31.8960	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot WXBC9428V)			+/-	280.6879	µg/mL	Unstressed
	Purity 98%				+/-	287.2415	µg/mL	Stressed
44	sec-Butylbenzene		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKCN2920)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
45	p-Isopropyltoluene (p-Cymene)		5,001.1	µg/mL	+/-	31.8989	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKCN1411)			+/-	280.7134	µg/mL	Unstressed
	Purity 99%				+/-	287.2675	µg/mL	Stressed
46	1,3-Dichlorobenzene		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBZ7498)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
47	1,4-Dichlorobenzene		5,000.8	µg/mL	+/-	31.7083	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	280.6759	µg/mL	Unstressed
	Purity 99%				+/-	287.2301	µg/mL	Stressed
48	n-Butylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09804AE)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed
49	1,2-Dichlorobenzene		5,000.1	µg/mL	+/-	31.7036	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBK7741)			+/-	280.6338	µg/mL	Unstressed
	Purity 99%				+/-	287.1871	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		5,000.3	µg/mL	+/-	31.8935	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot FBL01)			+/-	280.6658	µg/mL	Unstressed
	Purity 97%				+/-	287.2189	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBJ9215)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
52	Hexachlorobutadiene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot 664800)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
53	Naphthalene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBZ8680V)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		5,000.4	µg/mL	+/-	31.8944	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)			+/-	280.6741	µg/mL	Unstressed
	Purity 99%				+/-	287.2273	µg/mL	Stressed

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

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

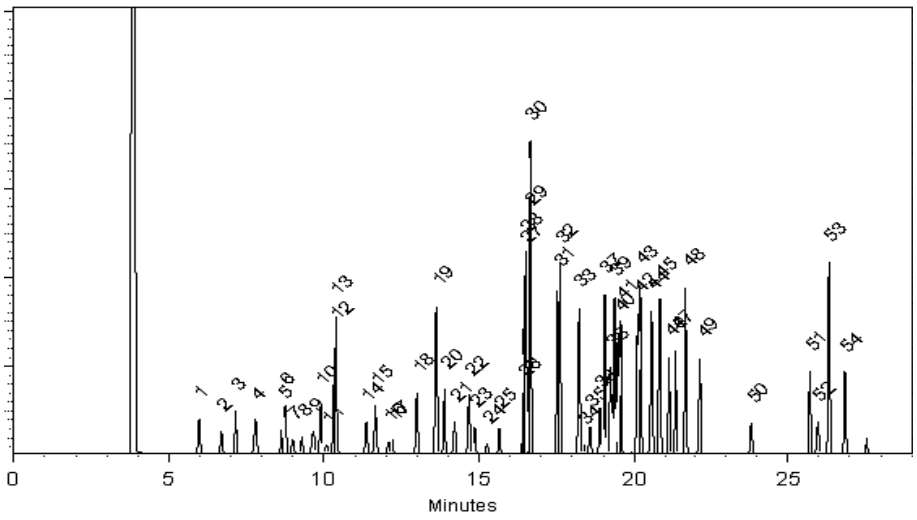
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Walker Workman - Operations Technician I

Date Mixed: 22-Apr-2021 **Balance:** 1128360905

Alexis Shelow - Operations Tech I

Date Passed: 26-Apr-2021

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_MegaMIX#1_00092

RESTEK®
110 Benner Circle
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www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577486 **Lot No.:** A0171634

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, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-dichloroethene	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 75-35-4 (Lot SHBK2437)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 75-09-2 (Lot SHBL6169)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
3	trans-1,2-Dichloroethene	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 156-60-5 (Lot MKBH9850V)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
4	1,1-Dichloroethane	5,000.8 µg/mL	+/- 31.7079 µg/mL	Gravimetric
	CAS # 75-34-3 (Lot 580900)		+/- 280.6723 µg/mL	Unstressed
	Purity 99%		+/- 287.2265 µg/mL	Stressed
5	2,2-Dichloropropane	5,000.8 µg/mL	+/- 31.8970 µg/mL	Gravimetric
	CAS # 594-20-7 (Lot RD201111)		+/- 280.6965 µg/mL	Unstressed
	Purity 99%		+/- 287.2503 µg/mL	Stressed
6	cis-1,2-Dichloroethene	5,000.6 µg/mL	+/- 31.8957 µg/mL	Gravimetric
	CAS # 156-59-2 (Lot MKCK1803)		+/- 280.6853 µg/mL	Unstressed
	Purity 99%		+/- 287.2388 µg/mL	Stressed
7	chloroform	5,000.6 µg/mL	+/- 31.7067 µg/mL	Gravimetric
	CAS # 67-66-3 (Lot SHBL6923)		+/- 280.6618 µg/mL	Unstressed
	Purity 99%		+/- 287.2158 µg/mL	Stressed

8	Bromochloromethane		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00008541)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
9	1,1,1-trichloroethane		5,000.1	µg/mL	+/-	31.7041	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	280.6383	µg/mL	Unstressed
	Purity 98%				+/-	287.1917	µg/mL	Stressed
10	1,1-Dichloropropene		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 201106JLM)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
11	carbon tetrachloride		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBJ2110)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
12	1,2-Dichloroethane		5,000.4	µg/mL	+/-	31.7059	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot MKCM8716)			+/-	280.6548	µg/mL	Unstressed
	Purity 99%				+/-	287.2086	µg/mL	Stressed
13	Benzene		5,001.0	µg/mL	+/-	31.8982	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBM3620)			+/-	280.7078	µg/mL	Unstressed
	Purity 99%				+/-	287.2618	µg/mL	Stressed
14	Trichloroethene		5,000.8	µg/mL	+/-	31.7079	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBL5816)			+/-	280.6723	µg/mL	Unstressed
	Purity 99%				+/-	287.2265	µg/mL	Stressed
15	1,2-Dichloropropane		5,001.1	µg/mL	+/-	31.7099	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	280.6899	µg/mL	Unstressed
	Purity 99%				+/-	287.2445	µg/mL	Stressed
16	bromodichloromethane		5,000.2	µg/mL	+/-	31.7043	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCK3742)			+/-	280.6408	µg/mL	Unstressed
	Purity 99%				+/-	287.1942	µg/mL	Stressed
17	Dibromomethane		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10215970)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
18	cis-1,3-Dichloropropene		5,001.9	µg/mL	+/-	31.7154	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot D26147-1217)			+/-	280.7390	µg/mL	Unstressed
	Purity 99%				+/-	287.2947	µg/mL	Stressed
19	Toluene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot SHBM6128)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
20	trans-1,3-Dichloropropene		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot RP201030)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
21	1,1,2-Trichloroethane		5,000.9	µg/mL	+/-	31.7087	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	280.6794	µg/mL	Unstressed
	Purity 99%				+/-	287.2337	µg/mL	Stressed
22	1,3-Dichloropropane		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBC6265)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
23	Tetrachloroethene		5,000.8	µg/mL	+/-	31.7079	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBJ7422)			+/-	280.6723	µg/mL	Unstressed
	Purity 99%				+/-	287.2265	µg/mL	Stressed

24	dibromochloromethane		5,001.1	µg/mL	+/-	31.7099	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCK6472)			+/-	280.6899	µg/mL	Unstressed
	Purity 99%				+/-	287.2445	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBP2268V)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
26	Chlorobenzene		5,000.2	µg/mL	+/-	31.7043	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBL8110)			+/-	280.6408	µg/mL	Unstressed
	Purity 99%				+/-	287.1942	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot GC01)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
28	Ethylbenzene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBL9192)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
29	m-Xylene		5,001.8	µg/mL	+/-	31.9033	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBM4841)			+/-	280.7527	µg/mL	Unstressed
	Purity 99%				+/-	287.3077	µg/mL	Stressed
30	p-Xylene		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBJ7329)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
31	o-Xylene		5,001.8	µg/mL	+/-	31.9035	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBL3963)			+/-	280.7539	µg/mL	Unstressed
	Purity 98%				+/-	287.3090	µg/mL	Stressed
32	Styrene		5,001.7	µg/mL	+/-	31.9027	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKCM3200)			+/-	280.7471	µg/mL	Unstressed
	Purity 99%				+/-	287.3020	µg/mL	Stressed
33	Isopropylbenzene (cumene)		5,001.0	µg/mL	+/-	31.8982	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot P15E008)			+/-	280.7078	µg/mL	Unstressed
	Purity 99%				+/-	287.2618	µg/mL	Stressed
34	bromoform		5,000.4	µg/mL	+/-	31.7055	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBJ4835)			+/-	280.6513	µg/mL	Unstressed
	Purity 99%				+/-	287.2050	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		5,000.4	µg/mL	+/-	31.7059	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	280.6548	µg/mL	Unstressed
	Purity 99%				+/-	287.2086	µg/mL	Stressed
36	1,2,3-Trichloropropane		5,000.0	µg/mL	+/-	31.8918	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot BCBH8722V)			+/-	280.6516	µg/mL	Unstressed
	Purity 99%				+/-	287.2044	µg/mL	Stressed
37	n-Propylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKCM4174)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed
38	Bromobenzene		5,001.1	µg/mL	+/-	31.8989	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot WXBC5147V)			+/-	280.7134	µg/mL	Unstressed
	Purity 99%				+/-	287.2675	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCCD0427)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed

40	2-Chlorotoluene		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKCF5243)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
41	4-Chlorotoluene		5,000.1	µg/mL	+/-	31.8925	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKCC8496)			+/-	280.6572	µg/mL	Unstressed
	Purity 99%				+/-	287.2101	µg/mL	Stressed
42	tert-Butylbenzene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot STBJ1937)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		5,000.6	µg/mL	+/-	31.8960	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot WXBC9428V)			+/-	280.6879	µg/mL	Unstressed
	Purity 98%				+/-	287.2415	µg/mL	Stressed
44	sec-Butylbenzene		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKCN2920)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
45	p-Isopropyltoluene (p-Cymene)		5,001.1	µg/mL	+/-	31.8989	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKCN1411)			+/-	280.7134	µg/mL	Unstressed
	Purity 99%				+/-	287.2675	µg/mL	Stressed
46	1,3-Dichlorobenzene		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBZ7498)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
47	1,4-Dichlorobenzene		5,000.8	µg/mL	+/-	31.7083	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	280.6759	µg/mL	Unstressed
	Purity 99%				+/-	287.2301	µg/mL	Stressed
48	n-Butylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09804AE)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed
49	1,2-Dichlorobenzene		5,000.1	µg/mL	+/-	31.7036	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBK7741)			+/-	280.6338	µg/mL	Unstressed
	Purity 99%				+/-	287.1871	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		5,000.3	µg/mL	+/-	31.8935	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot FBL01)			+/-	280.6658	µg/mL	Unstressed
	Purity 97%				+/-	287.2189	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBJ9215)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
52	Hexachlorobutadiene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot 664800)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
53	Naphthalene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBZ8680V)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		5,000.4	µg/mL	+/-	31.8944	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)			+/-	280.6741	µg/mL	Unstressed
	Purity 99%				+/-	287.2273	µg/mL	Stressed

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

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

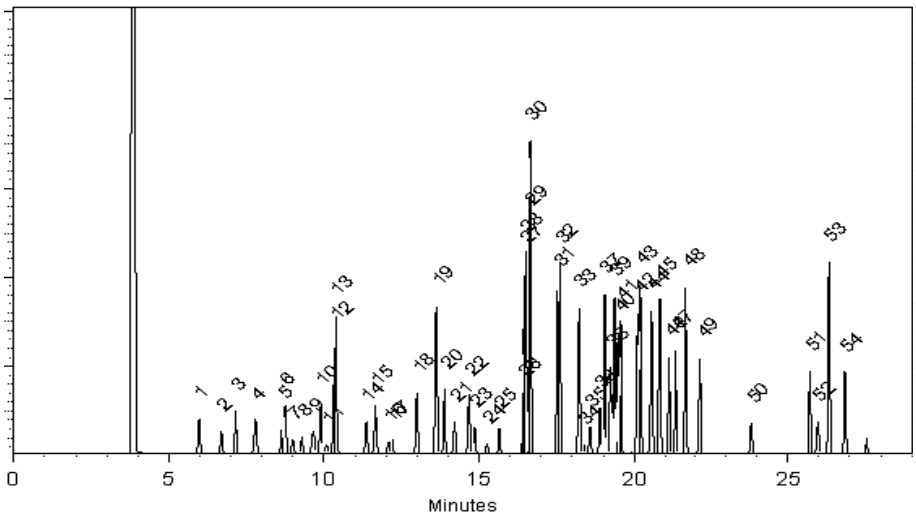
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Walker Workman - Operations Technician I

Date Mixed: 22-Apr-2021 **Balance:** 1128360905

Alexis Shelow - Operations Tech I

Date Passed: 26-Apr-2021

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_MegaMIX#1_00094

RESTEK®
110 Benner Circle
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
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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. : 577486 **Lot No.:** A0171634

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, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-dichloroethene	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 75-35-4 (Lot SHBK2437)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 75-09-2 (Lot SHBL6169)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
3	trans-1,2-Dichloroethene	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 156-60-5 (Lot MKBH9850V)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
4	1,1-Dichloroethane	5,000.8 µg/mL	+/- 31.7079 µg/mL	Gravimetric
	CAS # 75-34-3 (Lot 580900)		+/- 280.6723 µg/mL	Unstressed
	Purity 99%		+/- 287.2265 µg/mL	Stressed
5	2,2-Dichloropropane	5,000.8 µg/mL	+/- 31.8970 µg/mL	Gravimetric
	CAS # 594-20-7 (Lot RD201111)		+/- 280.6965 µg/mL	Unstressed
	Purity 99%		+/- 287.2503 µg/mL	Stressed
6	cis-1,2-Dichloroethene	5,000.6 µg/mL	+/- 31.8957 µg/mL	Gravimetric
	CAS # 156-59-2 (Lot MKCK1803)		+/- 280.6853 µg/mL	Unstressed
	Purity 99%		+/- 287.2388 µg/mL	Stressed
7	chloroform	5,000.6 µg/mL	+/- 31.7067 µg/mL	Gravimetric
	CAS # 67-66-3 (Lot SHBL6923)		+/- 280.6618 µg/mL	Unstressed
	Purity 99%		+/- 287.2158 µg/mL	Stressed

8	Bromochloromethane		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00008541)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
9	1,1,1-trichloroethane		5,000.1	µg/mL	+/-	31.7041	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	280.6383	µg/mL	Unstressed
	Purity 98%				+/-	287.1917	µg/mL	Stressed
10	1,1-Dichloropropene		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 201106JLM)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
11	carbon tetrachloride		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBJ2110)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
12	1,2-Dichloroethane		5,000.4	µg/mL	+/-	31.7059	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot MKCM8716)			+/-	280.6548	µg/mL	Unstressed
	Purity 99%				+/-	287.2086	µg/mL	Stressed
13	Benzene		5,001.0	µg/mL	+/-	31.8982	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBM3620)			+/-	280.7078	µg/mL	Unstressed
	Purity 99%				+/-	287.2618	µg/mL	Stressed
14	Trichloroethene		5,000.8	µg/mL	+/-	31.7079	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBL5816)			+/-	280.6723	µg/mL	Unstressed
	Purity 99%				+/-	287.2265	µg/mL	Stressed
15	1,2-Dichloropropane		5,001.1	µg/mL	+/-	31.7099	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	280.6899	µg/mL	Unstressed
	Purity 99%				+/-	287.2445	µg/mL	Stressed
16	bromodichloromethane		5,000.2	µg/mL	+/-	31.7043	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCK3742)			+/-	280.6408	µg/mL	Unstressed
	Purity 99%				+/-	287.1942	µg/mL	Stressed
17	Dibromomethane		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10215970)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
18	cis-1,3-Dichloropropene		5,001.9	µg/mL	+/-	31.7154	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot D26147-1217)			+/-	280.7390	µg/mL	Unstressed
	Purity 99%				+/-	287.2947	µg/mL	Stressed
19	Toluene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot SHBM6128)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
20	trans-1,3-Dichloropropene		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot RP201030)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
21	1,1,2-Trichloroethane		5,000.9	µg/mL	+/-	31.7087	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	280.6794	µg/mL	Unstressed
	Purity 99%				+/-	287.2337	µg/mL	Stressed
22	1,3-Dichloropropane		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBC6265)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
23	Tetrachloroethene		5,000.8	µg/mL	+/-	31.7079	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBJ7422)			+/-	280.6723	µg/mL	Unstressed
	Purity 99%				+/-	287.2265	µg/mL	Stressed

24	dibromochloromethane		5,001.1	µg/mL	+/-	31.7099	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCK6472)			+/-	280.6899	µg/mL	Unstressed
	Purity 99%				+/-	287.2445	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBP2268V)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
26	Chlorobenzene		5,000.2	µg/mL	+/-	31.7043	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBL8110)			+/-	280.6408	µg/mL	Unstressed
	Purity 99%				+/-	287.1942	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot GC01)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
28	Ethylbenzene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBL9192)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
29	m-Xylene		5,001.8	µg/mL	+/-	31.9033	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBM4841)			+/-	280.7527	µg/mL	Unstressed
	Purity 99%				+/-	287.3077	µg/mL	Stressed
30	p-Xylene		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBJ7329)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
31	o-Xylene		5,001.8	µg/mL	+/-	31.9035	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBL3963)			+/-	280.7539	µg/mL	Unstressed
	Purity 98%				+/-	287.3090	µg/mL	Stressed
32	Styrene		5,001.7	µg/mL	+/-	31.9027	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKCM3200)			+/-	280.7471	µg/mL	Unstressed
	Purity 99%				+/-	287.3020	µg/mL	Stressed
33	Isopropylbenzene (cumene)		5,001.0	µg/mL	+/-	31.8982	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot P15E008)			+/-	280.7078	µg/mL	Unstressed
	Purity 99%				+/-	287.2618	µg/mL	Stressed
34	bromoform		5,000.4	µg/mL	+/-	31.7055	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBJ4835)			+/-	280.6513	µg/mL	Unstressed
	Purity 99%				+/-	287.2050	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		5,000.4	µg/mL	+/-	31.7059	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	280.6548	µg/mL	Unstressed
	Purity 99%				+/-	287.2086	µg/mL	Stressed
36	1,2,3-Trichloropropane		5,000.0	µg/mL	+/-	31.8918	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot BCBH8722V)			+/-	280.6516	µg/mL	Unstressed
	Purity 99%				+/-	287.2044	µg/mL	Stressed
37	n-Propylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKCM4174)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed
38	Bromobenzene		5,001.1	µg/mL	+/-	31.8989	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot WXBC5147V)			+/-	280.7134	µg/mL	Unstressed
	Purity 99%				+/-	287.2675	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCCD0427)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed

40	2-Chlorotoluene		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKCF5243)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
41	4-Chlorotoluene		5,000.1	µg/mL	+/-	31.8925	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKCC8496)			+/-	280.6572	µg/mL	Unstressed
	Purity 99%				+/-	287.2101	µg/mL	Stressed
42	tert-Butylbenzene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot STBJ1937)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		5,000.6	µg/mL	+/-	31.8960	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot WXBC9428V)			+/-	280.6879	µg/mL	Unstressed
	Purity 98%				+/-	287.2415	µg/mL	Stressed
44	sec-Butylbenzene		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKCN2920)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
45	p-Isopropyltoluene (p-Cymene)		5,001.1	µg/mL	+/-	31.8989	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKCN1411)			+/-	280.7134	µg/mL	Unstressed
	Purity 99%				+/-	287.2675	µg/mL	Stressed
46	1,3-Dichlorobenzene		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBZ7498)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
47	1,4-Dichlorobenzene		5,000.8	µg/mL	+/-	31.7083	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	280.6759	µg/mL	Unstressed
	Purity 99%				+/-	287.2301	µg/mL	Stressed
48	n-Butylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09804AE)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed
49	1,2-Dichlorobenzene		5,000.1	µg/mL	+/-	31.7036	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBK7741)			+/-	280.6338	µg/mL	Unstressed
	Purity 99%				+/-	287.1871	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		5,000.3	µg/mL	+/-	31.8935	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot FBL01)			+/-	280.6658	µg/mL	Unstressed
	Purity 97%				+/-	287.2189	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBJ9215)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
52	Hexachlorobutadiene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot 664800)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
53	Naphthalene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBZ8680V)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		5,000.4	µg/mL	+/-	31.8944	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)			+/-	280.6741	µg/mL	Unstressed
	Purity 99%				+/-	287.2273	µg/mL	Stressed

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

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

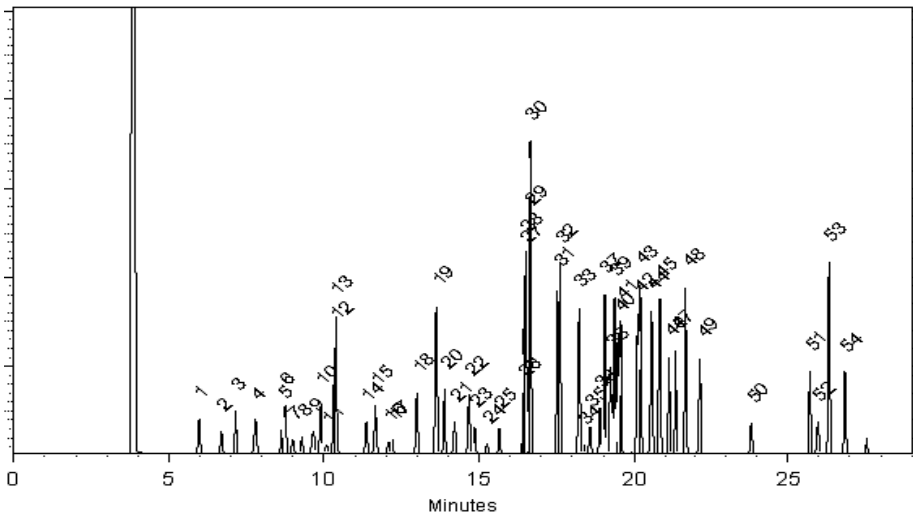
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Walker Workman - Operations Technician I

Date Mixed: 22-Apr-2021 **Balance:** 1128360905

Alexis Shelow - Operations Tech I

Date Passed: 26-Apr-2021

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_MegaMix#2_00081

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577487 **Lot No.:** A0173454

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 : June 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Pentane (C5)	5,000.8 µg/mL	+/- 34.9563 µg/mL	Gravimetric
	CAS # 109-66-0 (Lot SHBM6577)		+/- 248.1404 µg/mL	Unstressed
	Purity 99%		+/- 254.2734 µg/mL	Stressed
2	2-Propanol (isopropanol)	25,000.0 µg/mL	+/- 146.3805 µg/mL	Gravimetric
	CAS # 67-63-0 (Lot SHBH7211)		+/- 1,236.8175 µg/mL	Unstressed
	Purity 99%		+/- 1,267.5661 µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	5,000.0 µg/mL	+/- 34.9505 µg/mL	Gravimetric
	CAS # 76-13-1 (Lot 00016133)		+/- 248.0991 µg/mL	Unstressed
	Purity 99%		+/- 254.2310 µg/mL	Stressed
4	tert-Butanol (TBA)	25,010.0 µg/mL	+/- 146.4390 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot SHBM7694)		+/- 1,237.3122 µg/mL	Unstressed
	Purity 99%		+/- 1,268.0731 µg/mL	Stressed
5	Methyl acetate	5,000.2 µg/mL	+/- 34.9516 µg/mL	Gravimetric
	CAS # 79-20-9 (Lot SHBM1320)		+/- 248.1073 µg/mL	Unstressed
	Purity 99%		+/- 254.2395 µg/mL	Stressed
6	Iodomethane (methyl iodide)	5,001.7 µg/mL	+/- 34.9621 µg/mL	Gravimetric
	CAS # 74-88-4 (Lot RD210503)		+/- 248.1818 µg/mL	Unstressed
	Purity 99%		+/- 254.3157 µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	5,000.7 µg/mL	+/- 34.9551 µg/mL	Gravimetric
	CAS # 107-05-1 (Lot RD210402)		+/- 248.1321 µg/mL	Unstressed
	Purity 99%		+/- 254.2649 µg/mL	Stressed

8	Carbon disulfide		5,004.2	µg/mL	+/-	34.9796	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot N28F701)			+/-	248.3058	µg/mL	Unstressed
	Purity 99%				+/-	254.4428	µg/mL	Stressed
9	Acrylonitrile		12,506.0	µg/mL	+/-	73.2254	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot M25F024)			+/-	618.7056	µg/mL	Unstressed
	Purity 99%				+/-	634.0873	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBM3541)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
11	n-Hexane (C6)		5,000.5	µg/mL	+/-	34.9540	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBL9879)			+/-	248.1239	µg/mL	Unstressed
	Purity 99%				+/-	254.2564	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		5,003.3	µg/mL	+/-	34.9738	µg/mL	Gravimetric
	CAS # 108-20-3	(Lot SHBH1927V)			+/-	248.2645	µg/mL	Unstressed
	Purity 99%				+/-	254.4005	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		5,001.2	µg/mL	+/-	34.9586	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210413JLM)			+/-	248.1570	µg/mL	Unstressed
	Purity 99%				+/-	254.2903	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 637-92-3	(Lot MKCM3774)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
15	Propionitrile		25,006.7	µg/mL	+/-	146.4195	µg/mL	Gravimetric
	CAS # 107-12-0	(Lot BCCC1173)			+/-	1,237.1473	µg/mL	Unstressed
	Purity 99%				+/-	1,267.9041	µg/mL	Stressed
16	Methacrylonitrile		12,500.7	µg/mL	+/-	73.1942	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012020)			+/-	618.4417	µg/mL	Unstressed
	Purity 99%				+/-	633.8168	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,500.7	µg/mL	+/-	365.9551	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBM4836)			+/-	3,092.0767	µg/mL	Unstressed
	Purity 99%				+/-	3,168.9490	µg/mL	Stressed
18	Tetrahydrofuran		25,010.0	µg/mL	+/-	146.4390	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBM8962)			+/-	1,237.3122	µg/mL	Unstressed
	Purity 99%				+/-	1,268.0731	µg/mL	Stressed
19	Cyclohexane		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKCF5831)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
20	1-Butanol		62,504.0	µg/mL	+/-	365.9747	µg/mL	Gravimetric
	CAS # 71-36-3	(Lot SHBM5061)			+/-	3,092.2416	µg/mL	Unstressed
	Purity 99%				+/-	3,169.1180	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 994-05-8	(Lot HMBG7745V)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
22	n-Heptane (C7)		5,002.3	µg/mL	+/-	34.9668	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SHBL9221)			+/-	248.2148	µg/mL	Unstressed
	Purity 99%				+/-	254.3496	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 919-94-8	(Lot 76U3A)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed

24	Methylcyclohexane		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBL0078)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed
25	Methyl methacrylate		5,001.0	µg/mL	+/-	34.9574	µg/mL	Gravimetric
	CAS # 80-62-6	(Lot MKCN3027)			+/-	248.1487	µg/mL	Unstressed
	Purity 99%				+/-	254.2818	µg/mL	Stressed
26	1,4-Dioxane		62,503.3	µg/mL	+/-	365.9708	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBM5092)			+/-	3,092.2086	µg/mL	Unstressed
	Purity 99%				+/-	3,169.0842	µg/mL	Stressed
27	2-Nitropropane		25,000.8	µg/mL	+/-	146.3851	µg/mL	Gravimetric
	CAS # 79-46-9	(Lot BCCB9352)			+/-	1,236.8561	µg/mL	Unstressed
	Purity 97%				+/-	1,267.6056	µg/mL	Stressed
28	Ethyl methacrylate		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 97-63-2	(Lot MKCL0907)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
29	1-Chlorohexane		5,000.0	µg/mL	+/-	34.9502	µg/mL	Gravimetric
	CAS # 544-10-5	(Lot BCBS3368V)			+/-	248.0971	µg/mL	Unstressed
	Purity 98%				+/-	254.2290	µg/mL	Stressed
30	trans-1,4-dichloro-2-butene		12,510.9	µg/mL	+/-	73.2539	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot RD210617)			+/-	618.9463	µg/mL	Unstressed
	Purity 95%				+/-	634.3340	µg/mL	Stressed
31	1,2,3-Trimethylbenzene		5,000.0	µg/mL	+/-	34.9502	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 8776.10-36)			+/-	248.0971	µg/mL	Unstressed
	Purity 98%				+/-	254.2290	µg/mL	Stressed
32	1,3-Diethylbenzene		5,000.9	µg/mL	+/-	34.9570	µg/mL	Gravimetric
	CAS # 141-93-5	(Lot BCBT8967)			+/-	248.1457	µg/mL	Unstressed
	Purity 98%				+/-	254.2788	µg/mL	Stressed
33	Benzyl chloride		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBH2102V)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
34	1,4-Diethylbenzene		5,001.4	µg/mL	+/-	34.9605	µg/mL	Gravimetric
	CAS # 105-05-5	(Lot RLHJK)			+/-	248.1700	µg/mL	Unstressed
	Purity 98%				+/-	254.3037	µg/mL	Stressed
35	1,2-Diethylbenzene		5,000.5	µg/mL	+/-	34.9540	µg/mL	Gravimetric
	CAS # 135-01-3	(Lot ECH2970181)			+/-	248.1239	µg/mL	Unstressed
	Purity 99%				+/-	254.2564	µg/mL	Stressed
36	1,3,5-Trichlorobenzene		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed
37	2-Methylnaphthalene		5,001.0	µg/mL	+/-	34.9574	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot STBG8884)			+/-	248.1487	µg/mL	Unstressed
	Purity 99%				+/-	254.2818	µg/mL	Stressed

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

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

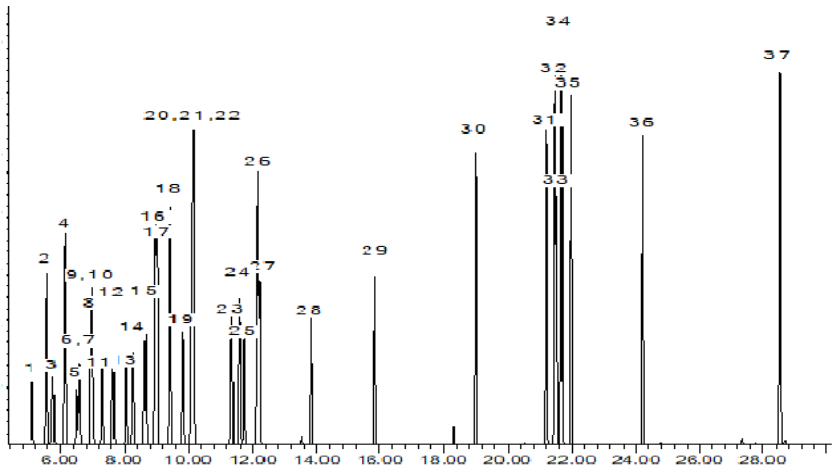
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Russ Bookhamer - Operations Technician I

Date Mixed: 16-Jun-2021 **Balance:** B707717271

Alexis Shelow - Operations Tech I

Date Passed: 30-Jun-2021

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_MegaMix#2_00089

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577487 **Lot No.:** A0173454

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 : June 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Pentane (C5)	5,000.8 µg/mL	+/- 34.9563 µg/mL	Gravimetric
	CAS # 109-66-0 (Lot SHBM6577)		+/- 248.1404 µg/mL	Unstressed
	Purity 99%		+/- 254.2734 µg/mL	Stressed
2	2-Propanol (isopropanol)	25,000.0 µg/mL	+/- 146.3805 µg/mL	Gravimetric
	CAS # 67-63-0 (Lot SHBH7211)		+/- 1,236.8175 µg/mL	Unstressed
	Purity 99%		+/- 1,267.5661 µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	5,000.0 µg/mL	+/- 34.9505 µg/mL	Gravimetric
	CAS # 76-13-1 (Lot 00016133)		+/- 248.0991 µg/mL	Unstressed
	Purity 99%		+/- 254.2310 µg/mL	Stressed
4	tert-Butanol (TBA)	25,010.0 µg/mL	+/- 146.4390 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot SHBM7694)		+/- 1,237.3122 µg/mL	Unstressed
	Purity 99%		+/- 1,268.0731 µg/mL	Stressed
5	Methyl acetate	5,000.2 µg/mL	+/- 34.9516 µg/mL	Gravimetric
	CAS # 79-20-9 (Lot SHBM1320)		+/- 248.1073 µg/mL	Unstressed
	Purity 99%		+/- 254.2395 µg/mL	Stressed
6	Iodomethane (methyl iodide)	5,001.7 µg/mL	+/- 34.9621 µg/mL	Gravimetric
	CAS # 74-88-4 (Lot RD210503)		+/- 248.1818 µg/mL	Unstressed
	Purity 99%		+/- 254.3157 µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	5,000.7 µg/mL	+/- 34.9551 µg/mL	Gravimetric
	CAS # 107-05-1 (Lot RD210402)		+/- 248.1321 µg/mL	Unstressed
	Purity 99%		+/- 254.2649 µg/mL	Stressed

8	Carbon disulfide		5,004.2	µg/mL	+/-	34.9796	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot N28F701)			+/-	248.3058	µg/mL	Unstressed
	Purity 99%				+/-	254.4428	µg/mL	Stressed
9	Acrylonitrile		12,506.0	µg/mL	+/-	73.2254	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot M25F024)			+/-	618.7056	µg/mL	Unstressed
	Purity 99%				+/-	634.0873	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBM3541)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
11	n-Hexane (C6)		5,000.5	µg/mL	+/-	34.9540	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBL9879)			+/-	248.1239	µg/mL	Unstressed
	Purity 99%				+/-	254.2564	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		5,003.3	µg/mL	+/-	34.9738	µg/mL	Gravimetric
	CAS # 108-20-3	(Lot SHBH1927V)			+/-	248.2645	µg/mL	Unstressed
	Purity 99%				+/-	254.4005	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		5,001.2	µg/mL	+/-	34.9586	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210413JLM)			+/-	248.1570	µg/mL	Unstressed
	Purity 99%				+/-	254.2903	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 637-92-3	(Lot MKCM3774)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
15	Propionitrile		25,006.7	µg/mL	+/-	146.4195	µg/mL	Gravimetric
	CAS # 107-12-0	(Lot BCCC1173)			+/-	1,237.1473	µg/mL	Unstressed
	Purity 99%				+/-	1,267.9041	µg/mL	Stressed
16	Methacrylonitrile		12,500.7	µg/mL	+/-	73.1942	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012020)			+/-	618.4417	µg/mL	Unstressed
	Purity 99%				+/-	633.8168	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,500.7	µg/mL	+/-	365.9551	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBM4836)			+/-	3,092.0767	µg/mL	Unstressed
	Purity 99%				+/-	3,168.9490	µg/mL	Stressed
18	Tetrahydrofuran		25,010.0	µg/mL	+/-	146.4390	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBM8962)			+/-	1,237.3122	µg/mL	Unstressed
	Purity 99%				+/-	1,268.0731	µg/mL	Stressed
19	Cyclohexane		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKCF5831)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
20	1-Butanol		62,504.0	µg/mL	+/-	365.9747	µg/mL	Gravimetric
	CAS # 71-36-3	(Lot SHBM5061)			+/-	3,092.2416	µg/mL	Unstressed
	Purity 99%				+/-	3,169.1180	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 994-05-8	(Lot HMBG7745V)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
22	n-Heptane (C7)		5,002.3	µg/mL	+/-	34.9668	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SHBL9221)			+/-	248.2148	µg/mL	Unstressed
	Purity 99%				+/-	254.3496	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 919-94-8	(Lot 76U3A)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed

24	Methylcyclohexane		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBL0078)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed
25	Methyl methacrylate		5,001.0	µg/mL	+/-	34.9574	µg/mL	Gravimetric
	CAS # 80-62-6	(Lot MKCN3027)			+/-	248.1487	µg/mL	Unstressed
	Purity 99%				+/-	254.2818	µg/mL	Stressed
26	1,4-Dioxane		62,503.3	µg/mL	+/-	365.9708	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBM5092)			+/-	3,092.2086	µg/mL	Unstressed
	Purity 99%				+/-	3,169.0842	µg/mL	Stressed
27	2-Nitropropane		25,000.8	µg/mL	+/-	146.3851	µg/mL	Gravimetric
	CAS # 79-46-9	(Lot BCCB9352)			+/-	1,236.8561	µg/mL	Unstressed
	Purity 97%				+/-	1,267.6056	µg/mL	Stressed
28	Ethyl methacrylate		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 97-63-2	(Lot MKCL0907)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
29	1-Chlorohexane		5,000.0	µg/mL	+/-	34.9502	µg/mL	Gravimetric
	CAS # 544-10-5	(Lot BCBS3368V)			+/-	248.0971	µg/mL	Unstressed
	Purity 98%				+/-	254.2290	µg/mL	Stressed
30	trans-1,4-dichloro-2-butene		12,510.9	µg/mL	+/-	73.2539	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot RD210617)			+/-	618.9463	µg/mL	Unstressed
	Purity 95%				+/-	634.3340	µg/mL	Stressed
31	1,2,3-Trimethylbenzene		5,000.0	µg/mL	+/-	34.9502	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 8776.10-36)			+/-	248.0971	µg/mL	Unstressed
	Purity 98%				+/-	254.2290	µg/mL	Stressed
32	1,3-Diethylbenzene		5,000.9	µg/mL	+/-	34.9570	µg/mL	Gravimetric
	CAS # 141-93-5	(Lot BCBT8967)			+/-	248.1457	µg/mL	Unstressed
	Purity 98%				+/-	254.2788	µg/mL	Stressed
33	Benzyl chloride		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBH2102V)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
34	1,4-Diethylbenzene		5,001.4	µg/mL	+/-	34.9605	µg/mL	Gravimetric
	CAS # 105-05-5	(Lot RLHJK)			+/-	248.1700	µg/mL	Unstressed
	Purity 98%				+/-	254.3037	µg/mL	Stressed
35	1,2-Diethylbenzene		5,000.5	µg/mL	+/-	34.9540	µg/mL	Gravimetric
	CAS # 135-01-3	(Lot ECH2970181)			+/-	248.1239	µg/mL	Unstressed
	Purity 99%				+/-	254.2564	µg/mL	Stressed
36	1,3,5-Trichlorobenzene		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed
37	2-Methylnaphthalene		5,001.0	µg/mL	+/-	34.9574	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot STBG8884)			+/-	248.1487	µg/mL	Unstressed
	Purity 99%				+/-	254.2818	µg/mL	Stressed

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

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

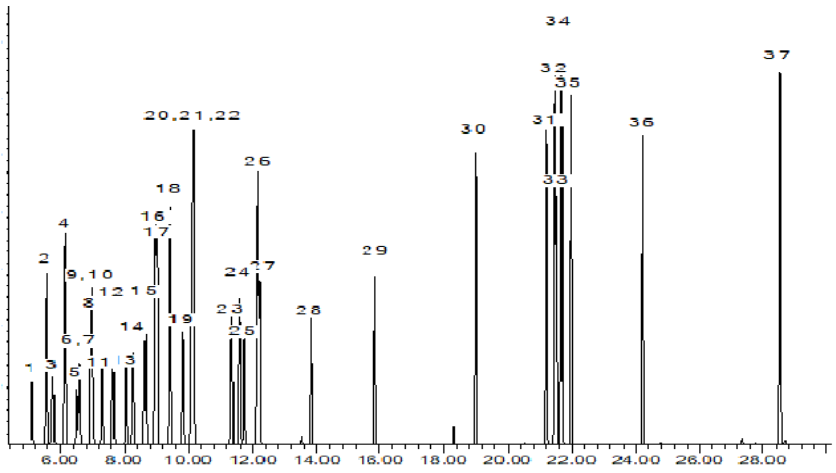
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Russ Bookhamer - Operations Technician I

Date Mixed: 16-Jun-2021 **Balance:** B707717271

Alexis Shelow - Operations Tech I

Date Passed: 30-Jun-2021

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_MegaMix#2_00091

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577487 **Lot No.:** A0173454

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 : June 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Pentane (C5)	5,000.8 µg/mL	+/- 34.9563 µg/mL	Gravimetric
	CAS # 109-66-0 (Lot SHBM6577)		+/- 248.1404 µg/mL	Unstressed
	Purity 99%		+/- 254.2734 µg/mL	Stressed
2	2-Propanol (isopropanol)	25,000.0 µg/mL	+/- 146.3805 µg/mL	Gravimetric
	CAS # 67-63-0 (Lot SHBH7211)		+/- 1,236.8175 µg/mL	Unstressed
	Purity 99%		+/- 1,267.5661 µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	5,000.0 µg/mL	+/- 34.9505 µg/mL	Gravimetric
	CAS # 76-13-1 (Lot 00016133)		+/- 248.0991 µg/mL	Unstressed
	Purity 99%		+/- 254.2310 µg/mL	Stressed
4	tert-Butanol (TBA)	25,010.0 µg/mL	+/- 146.4390 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot SHBM7694)		+/- 1,237.3122 µg/mL	Unstressed
	Purity 99%		+/- 1,268.0731 µg/mL	Stressed
5	Methyl acetate	5,000.2 µg/mL	+/- 34.9516 µg/mL	Gravimetric
	CAS # 79-20-9 (Lot SHBM1320)		+/- 248.1073 µg/mL	Unstressed
	Purity 99%		+/- 254.2395 µg/mL	Stressed
6	Iodomethane (methyl iodide)	5,001.7 µg/mL	+/- 34.9621 µg/mL	Gravimetric
	CAS # 74-88-4 (Lot RD210503)		+/- 248.1818 µg/mL	Unstressed
	Purity 99%		+/- 254.3157 µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	5,000.7 µg/mL	+/- 34.9551 µg/mL	Gravimetric
	CAS # 107-05-1 (Lot RD210402)		+/- 248.1321 µg/mL	Unstressed
	Purity 99%		+/- 254.2649 µg/mL	Stressed

8	Carbon disulfide		5,004.2	µg/mL	+/-	34.9796	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot N28F701)			+/-	248.3058	µg/mL	Unstressed
	Purity 99%				+/-	254.4428	µg/mL	Stressed
9	Acrylonitrile		12,506.0	µg/mL	+/-	73.2254	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot M25F024)			+/-	618.7056	µg/mL	Unstressed
	Purity 99%				+/-	634.0873	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBM3541)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
11	n-Hexane (C6)		5,000.5	µg/mL	+/-	34.9540	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBL9879)			+/-	248.1239	µg/mL	Unstressed
	Purity 99%				+/-	254.2564	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		5,003.3	µg/mL	+/-	34.9738	µg/mL	Gravimetric
	CAS # 108-20-3	(Lot SHBH1927V)			+/-	248.2645	µg/mL	Unstressed
	Purity 99%				+/-	254.4005	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		5,001.2	µg/mL	+/-	34.9586	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210413JLM)			+/-	248.1570	µg/mL	Unstressed
	Purity 99%				+/-	254.2903	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 637-92-3	(Lot MKCM3774)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
15	Propionitrile		25,006.7	µg/mL	+/-	146.4195	µg/mL	Gravimetric
	CAS # 107-12-0	(Lot BCCC1173)			+/-	1,237.1473	µg/mL	Unstressed
	Purity 99%				+/-	1,267.9041	µg/mL	Stressed
16	Methacrylonitrile		12,500.7	µg/mL	+/-	73.1942	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012020)			+/-	618.4417	µg/mL	Unstressed
	Purity 99%				+/-	633.8168	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,500.7	µg/mL	+/-	365.9551	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBM4836)			+/-	3,092.0767	µg/mL	Unstressed
	Purity 99%				+/-	3,168.9490	µg/mL	Stressed
18	Tetrahydrofuran		25,010.0	µg/mL	+/-	146.4390	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBM8962)			+/-	1,237.3122	µg/mL	Unstressed
	Purity 99%				+/-	1,268.0731	µg/mL	Stressed
19	Cyclohexane		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKCF5831)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
20	1-Butanol		62,504.0	µg/mL	+/-	365.9747	µg/mL	Gravimetric
	CAS # 71-36-3	(Lot SHBM5061)			+/-	3,092.2416	µg/mL	Unstressed
	Purity 99%				+/-	3,169.1180	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 994-05-8	(Lot HMBG7745V)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
22	n-Heptane (C7)		5,002.3	µg/mL	+/-	34.9668	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SHBL9221)			+/-	248.2148	µg/mL	Unstressed
	Purity 99%				+/-	254.3496	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 919-94-8	(Lot 76U3A)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed

24	Methylcyclohexane		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBL0078)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed
25	Methyl methacrylate		5,001.0	µg/mL	+/-	34.9574	µg/mL	Gravimetric
	CAS # 80-62-6	(Lot MKCN3027)			+/-	248.1487	µg/mL	Unstressed
	Purity 99%				+/-	254.2818	µg/mL	Stressed
26	1,4-Dioxane		62,503.3	µg/mL	+/-	365.9708	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBM5092)			+/-	3,092.2086	µg/mL	Unstressed
	Purity 99%				+/-	3,169.0842	µg/mL	Stressed
27	2-Nitropropane		25,000.8	µg/mL	+/-	146.3851	µg/mL	Gravimetric
	CAS # 79-46-9	(Lot BCCB9352)			+/-	1,236.8561	µg/mL	Unstressed
	Purity 97%				+/-	1,267.6056	µg/mL	Stressed
28	Ethyl methacrylate		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 97-63-2	(Lot MKCL0907)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
29	1-Chlorohexane		5,000.0	µg/mL	+/-	34.9502	µg/mL	Gravimetric
	CAS # 544-10-5	(Lot BCBS3368V)			+/-	248.0971	µg/mL	Unstressed
	Purity 98%				+/-	254.2290	µg/mL	Stressed
30	trans-1,4-dichloro-2-butene		12,510.9	µg/mL	+/-	73.2539	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot RD210617)			+/-	618.9463	µg/mL	Unstressed
	Purity 95%				+/-	634.3340	µg/mL	Stressed
31	1,2,3-Trimethylbenzene		5,000.0	µg/mL	+/-	34.9502	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 8776.10-36)			+/-	248.0971	µg/mL	Unstressed
	Purity 98%				+/-	254.2290	µg/mL	Stressed
32	1,3-Diethylbenzene		5,000.9	µg/mL	+/-	34.9570	µg/mL	Gravimetric
	CAS # 141-93-5	(Lot BCBT8967)			+/-	248.1457	µg/mL	Unstressed
	Purity 98%				+/-	254.2788	µg/mL	Stressed
33	Benzyl chloride		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBH2102V)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
34	1,4-Diethylbenzene		5,001.4	µg/mL	+/-	34.9605	µg/mL	Gravimetric
	CAS # 105-05-5	(Lot RLHJK)			+/-	248.1700	µg/mL	Unstressed
	Purity 98%				+/-	254.3037	µg/mL	Stressed
35	1,2-Diethylbenzene		5,000.5	µg/mL	+/-	34.9540	µg/mL	Gravimetric
	CAS # 135-01-3	(Lot ECH2970181)			+/-	248.1239	µg/mL	Unstressed
	Purity 99%				+/-	254.2564	µg/mL	Stressed
36	1,3,5-Trichlorobenzene		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed
37	2-Methylnaphthalene		5,001.0	µg/mL	+/-	34.9574	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot STBG8884)			+/-	248.1487	µg/mL	Unstressed
	Purity 99%				+/-	254.2818	µg/mL	Stressed

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

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

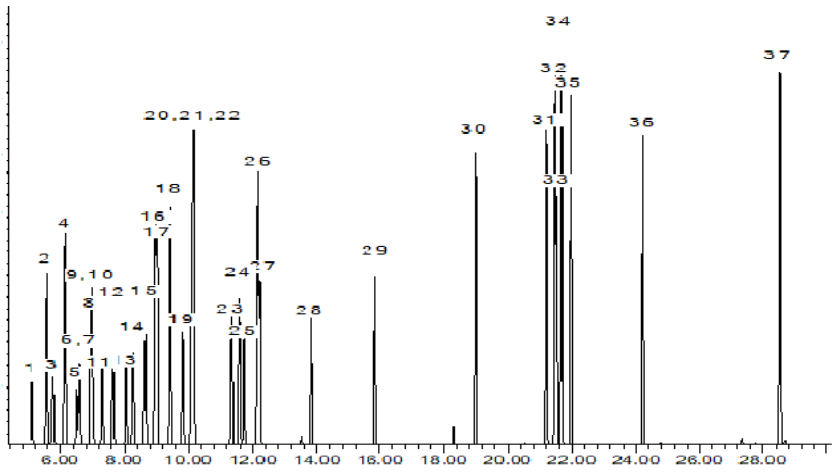
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Russ Bookhamer - Operations Technician I

Date Mixed: 16-Jun-2021 **Balance:** B707717271

Alexis Shelow - Operations Tech I

Date Passed: 30-Jun-2021

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_Q_Ketones_00081

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569721.SEC **Lot No.:** A0178490

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 : November 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1.SEC (Lot S25F025) **Purity** 99%	12,504.0 µg/mL	+/- 73.2137 µg/mL +/- 754.4715 µg/mL +/- 756.2625 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3.SEC (Lot RGZ2A) **Purity** 99%	12,502.0 µg/mL	+/- 73.2020 µg/mL +/- 754.3508 µg/mL +/- 756.1415 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1.SEC (Lot E29T040) **Purity** 99%	12,508.7 µg/mL	+/- 73.2410 µg/mL +/- 754.7530 µg/mL +/- 756.5447 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6.SEC (Lot Y3TUO) **Purity** 99%	12,507.3 µg/mL	+/- 73.2332 µg/mL +/- 754.6726 µg/mL +/- 756.4641 µg/mL	Gravimetric Unstressed Stressed

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

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

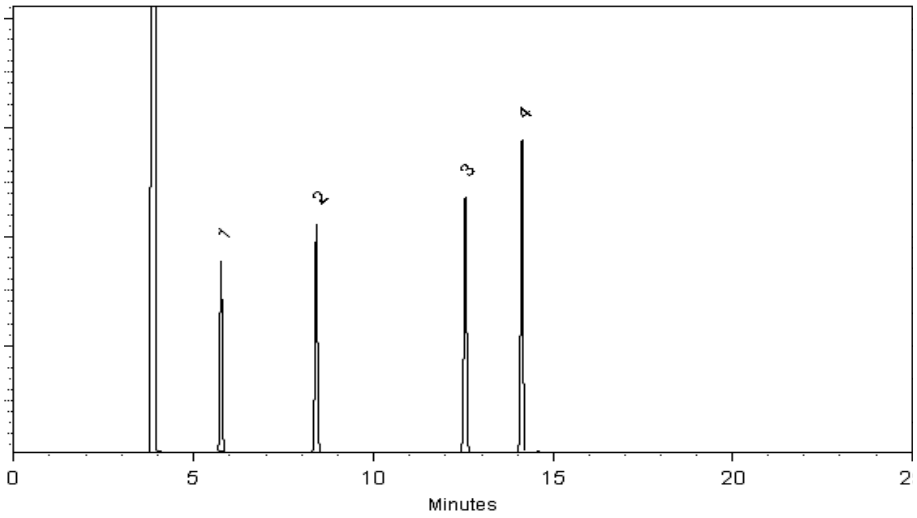
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Jeff Rhoades - Mix Technician

Date Mixed: 15-Nov-2021 **Balance:** 1127510105

Clara Windle - Operations Technician I

Date Passed: 16-Nov-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

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ISO/IEC 17025 Accredited
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Certificate #3222.02

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Catalog No. : 569721.SEC **Lot No.:** A0178490

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 : November 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,504.0 µg/mL	+/- 73.2137 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot S25F025)		+/- 754.4715 µg/mL	Unstressed
	Purity 99%		+/- 756.2625 µg/mL	Stressed
2	2-Butanone (MEK)	12,502.0 µg/mL	+/- 73.2020 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 754.3508 µg/mL	Unstressed
	Purity 99%		+/- 756.1415 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,508.7 µg/mL	+/- 73.2410 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 754.7530 µg/mL	Unstressed
	Purity 99%		+/- 756.5447 µg/mL	Stressed
4	2-Hexanone	12,507.3 µg/mL	+/- 73.2332 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 754.6726 µg/mL	Unstressed
	Purity 99%		+/- 756.4641 µg/mL	Stressed

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

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

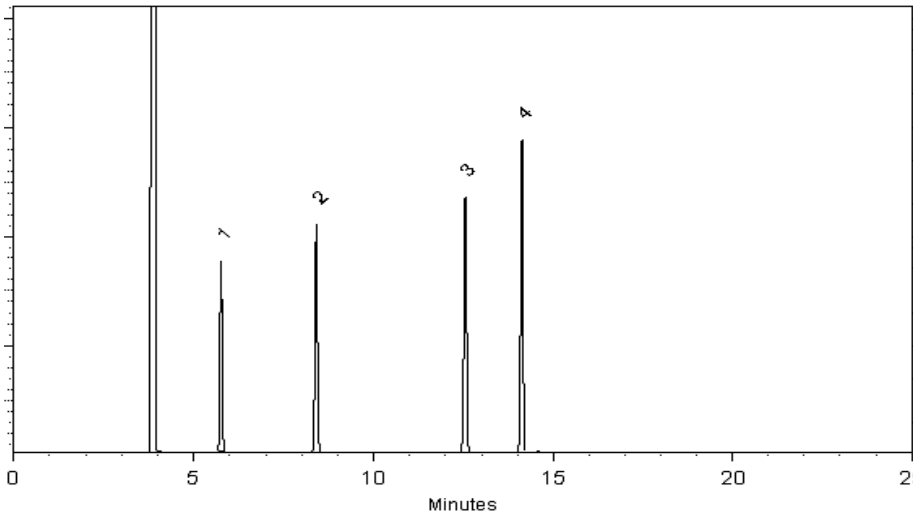
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Jeff Rhoades - Mix Technician

Date Mixed: 15-Nov-2021 **Balance:** 1127510105

Clara Windle - Operations Technician I

Date Passed: 16-Nov-2021

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_Q_Ketones_00093

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

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569721.SEC **Lot No.:** A0178490

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 : November 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,504.0 µg/mL	+/- 73.2137 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot S25F025)		+/- 754.4715 µg/mL	Unstressed
	Purity 99%		+/- 756.2625 µg/mL	Stressed
2	2-Butanone (MEK)	12,502.0 µg/mL	+/- 73.2020 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 754.3508 µg/mL	Unstressed
	Purity 99%		+/- 756.1415 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,508.7 µg/mL	+/- 73.2410 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 754.7530 µg/mL	Unstressed
	Purity 99%		+/- 756.5447 µg/mL	Stressed
4	2-Hexanone	12,507.3 µg/mL	+/- 73.2332 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 754.6726 µg/mL	Unstressed
	Purity 99%		+/- 756.4641 µg/mL	Stressed

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

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

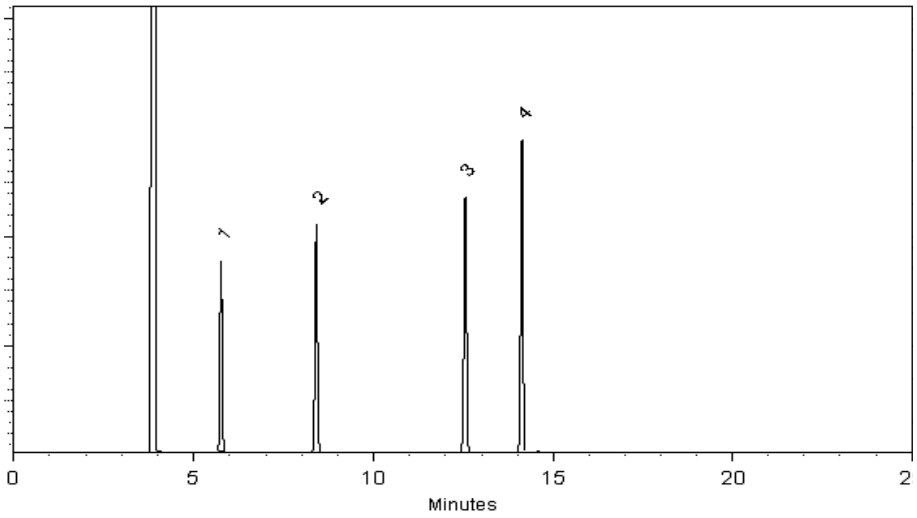
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Jeff Rhoades - Mix Technician

Date Mixed: 15-Nov-2021 **Balance:** 1127510105

Clara Windle - Operations Technician I

Date Passed: 16-Nov-2021

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_Q_Ketones_00094

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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Catalog No. : 569721.SEC **Lot No.:** A0178490

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 : November 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,504.0 µg/mL	+/- 73.2137 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot S25F025)		+/- 754.4715 µg/mL	Unstressed
	Purity 99%		+/- 756.2625 µg/mL	Stressed
2	2-Butanone (MEK)	12,502.0 µg/mL	+/- 73.2020 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 754.3508 µg/mL	Unstressed
	Purity 99%		+/- 756.1415 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,508.7 µg/mL	+/- 73.2410 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 754.7530 µg/mL	Unstressed
	Purity 99%		+/- 756.5447 µg/mL	Stressed
4	2-Hexanone	12,507.3 µg/mL	+/- 73.2332 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 754.6726 µg/mL	Unstressed
	Purity 99%		+/- 756.4641 µg/mL	Stressed

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

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

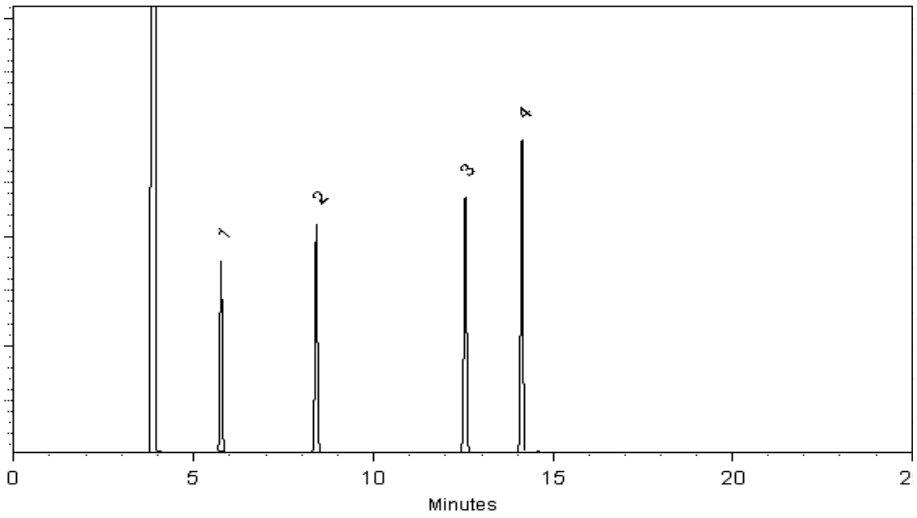
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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Jeff Rhoades - Mix Technician

Date Mixed: 15-Nov-2021 **Balance:** 1127510105

Clara Windle - Operations Technician I

Date Passed: 16-Nov-2021

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_00103

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Certificate #3222.02

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

Catalog No. : 577488.SEC **Lot No.:** A0172021

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, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8.SEC (Lot 26871) **Purity** 99%	2,014.7 µg/mL	+/- 21.3347 µg/mL +/- 114.3626 µg/mL +/- 116.9742 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3.SEC (Lot 18343) **Purity** 99%	2,018.4 µg/mL	+/- 22.6573 µg/mL +/- 114.8157 µg/mL +/- 117.4265 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,011.6 µg/mL	+/- 18.1502 µg/mL +/- 113.6387 µg/mL +/- 116.2584 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0.SEC (Lot 26996) **Purity** 99%	2,020.9 µg/mL	+/- 15.6985 µg/mL +/- 113.7849 µg/mL +/- 116.4253 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9.SEC (Lot 00017022) **Purity** 99%	2,014.3 µg/mL	+/- 52.5641 µg/mL +/- 124.0186 µg/mL +/- 126.4297 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3.SEC (Lot 00004202) **Purity** 99%	2,009.7 µg/mL	+/- 28.6335 µg/mL +/- 115.6738 µg/mL +/- 118.2437 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 * (Lot 10930400) **Purity** 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL +/- 112.1494 µg/mL +/- 114.7730 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,010.6	µg/mL	+/-	32.3019	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)			+/-	116.6827	µg/mL	Unstressed
	Purity 99%				+/-	119.2330	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,020.4	µg/mL	+/-	21.8150	µg/mL	Gravimetric
	CAS # 354-23-4 *	(Lot Q9B-64)			+/-	114.7647	µg/mL	Unstressed
	Purity 99%				+/-	117.3819	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)

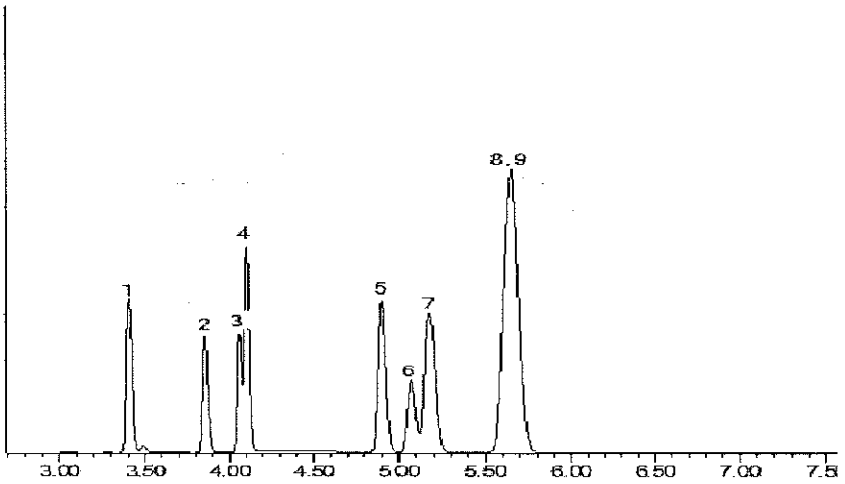
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.

Lane Kibe - Mix Technician

Date Mixed: 04-May-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 17-May-2021

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Catalog No. : 577488.SEC **Lot No.:** A0172021

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, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8.SEC (Lot 26871) **Purity** 99%	2,014.7 µg/mL	+/- 21.3347 µg/mL +/- 114.3626 µg/mL +/- 116.9742 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3.SEC (Lot 18343) **Purity** 99%	2,018.4 µg/mL	+/- 22.6573 µg/mL +/- 114.8157 µg/mL +/- 117.4265 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,011.6 µg/mL	+/- 18.1502 µg/mL +/- 113.6387 µg/mL +/- 116.2584 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0.SEC (Lot 26996) **Purity** 99%	2,020.9 µg/mL	+/- 15.6985 µg/mL +/- 113.7849 µg/mL +/- 116.4253 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9.SEC (Lot 00017022) **Purity** 99%	2,014.3 µg/mL	+/- 52.5641 µg/mL +/- 124.0186 µg/mL +/- 126.4297 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3.SEC (Lot 00004202) **Purity** 99%	2,009.7 µg/mL	+/- 28.6335 µg/mL +/- 115.6738 µg/mL +/- 118.2437 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 * (Lot 10930400) **Purity** 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL +/- 112.1494 µg/mL +/- 114.7730 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,010.6	µg/mL	+/-	32.3019	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)			+/-	116.6827	µg/mL	Unstressed
	Purity 99%				+/-	119.2330	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,020.4	µg/mL	+/-	21.8150	µg/mL	Gravimetric
	CAS # 354-23-4 *	(Lot Q9B-64)			+/-	114.7647	µg/mL	Unstressed
	Purity 99%				+/-	117.3819	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)

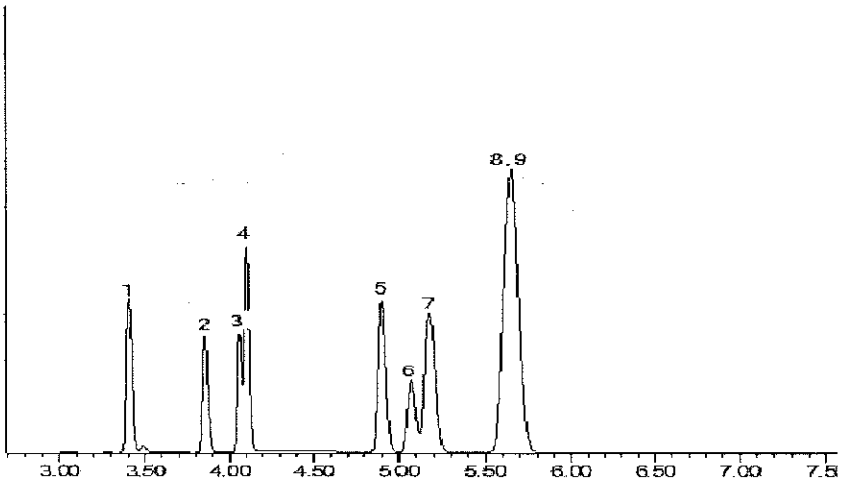
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.

Lane Kibe - Mix Technician

Date Mixed: 04-May-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 17-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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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_00115

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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.SEC **Lot No.:** A0172021

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, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8.SEC (Lot 26871) **Purity** 99%	2,014.7 µg/mL	+/- 21.3347 µg/mL +/- 114.3626 µg/mL +/- 116.9742 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3.SEC (Lot 18343) **Purity** 99%	2,018.4 µg/mL	+/- 22.6573 µg/mL +/- 114.8157 µg/mL +/- 117.4265 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,011.6 µg/mL	+/- 18.1502 µg/mL +/- 113.6387 µg/mL +/- 116.2584 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0.SEC (Lot 26996) **Purity** 99%	2,020.9 µg/mL	+/- 15.6985 µg/mL +/- 113.7849 µg/mL +/- 116.4253 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9.SEC (Lot 00017022) **Purity** 99%	2,014.3 µg/mL	+/- 52.5641 µg/mL +/- 124.0186 µg/mL +/- 126.4297 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3.SEC (Lot 00004202) **Purity** 99%	2,009.7 µg/mL	+/- 28.6335 µg/mL +/- 115.6738 µg/mL +/- 118.2437 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 * (Lot 10930400) **Purity** 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL +/- 112.1494 µg/mL +/- 114.7730 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,010.6	µg/mL	+/-	32.3019	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)			+/-	116.6827	µg/mL	Unstressed
	Purity 99%				+/-	119.2330	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,020.4	µg/mL	+/-	21.8150	µg/mL	Gravimetric
	CAS # 354-23-4 *	(Lot Q9B-64)			+/-	114.7647	µg/mL	Unstressed
	Purity 99%				+/-	117.3819	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)

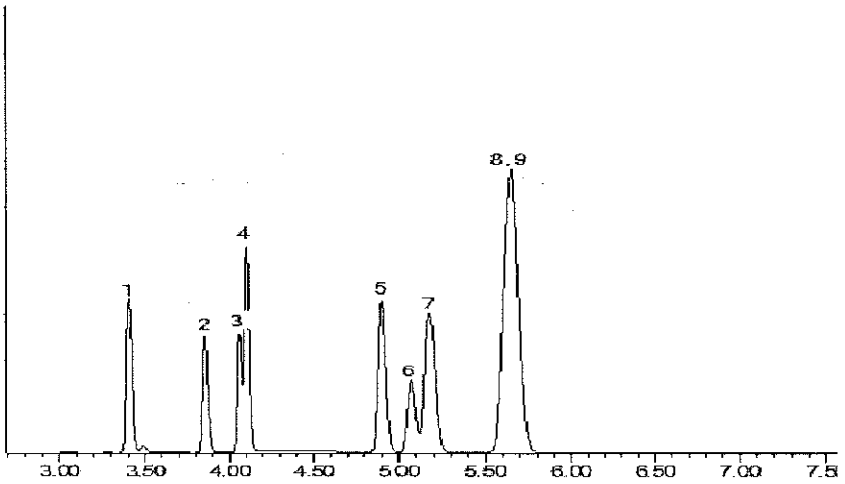
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.

Lane Kibe - Mix Technician

Date Mixed: 04-May-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 17-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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Certificate of Analysis

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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. : 577488.SEC **Lot No.:** A0172021

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, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8.SEC (Lot 26871) **Purity** 99%	2,014.7 µg/mL	+/- 21.3347 µg/mL +/- 114.3626 µg/mL +/- 116.9742 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3.SEC (Lot 18343) **Purity** 99%	2,018.4 µg/mL	+/- 22.6573 µg/mL +/- 114.8157 µg/mL +/- 117.4265 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,011.6 µg/mL	+/- 18.1502 µg/mL +/- 113.6387 µg/mL +/- 116.2584 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0.SEC (Lot 26996) **Purity** 99%	2,020.9 µg/mL	+/- 15.6985 µg/mL +/- 113.7849 µg/mL +/- 116.4253 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9.SEC (Lot 00017022) **Purity** 99%	2,014.3 µg/mL	+/- 52.5641 µg/mL +/- 124.0186 µg/mL +/- 126.4297 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3.SEC (Lot 00004202) **Purity** 99%	2,009.7 µg/mL	+/- 28.6335 µg/mL +/- 115.6738 µg/mL +/- 118.2437 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 * **Purity** 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL +/- 112.1494 µg/mL +/- 114.7730 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,010.6	µg/mL	+/-	32.3019	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)			+/-	116.6827	µg/mL	Unstressed
	Purity 99%				+/-	119.2330	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,020.4	µg/mL	+/-	21.8150	µg/mL	Gravimetric
	CAS # 354-23-4 *	(Lot Q9B-64)			+/-	114.7647	µg/mL	Unstressed
	Purity 99%				+/-	117.3819	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)

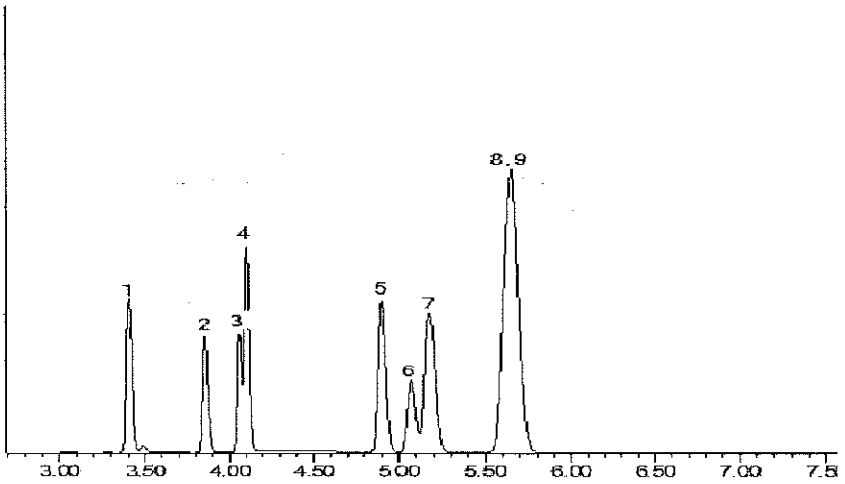
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.

Lane Kibe - Mix Technician

Date Mixed: 04-May-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 17-May-2021

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#2B_00282

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 56734 **Lot No.:** A0184378

Description : Custom V # 2B Standard

Custom V #2B Standard 12,500-125,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

Elution Order	Compound	CAS #	Percent Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Propanol (isopropanol)	67-63-0	99%	25,003.0 µg/mL	+/- 146.3981 µg/mL
2	tert-Butanol (TBA)	75-65-0	99%	25,000.0 µg/mL	+/- 146.3805 µg/mL
3	Propionitrile	107-12-0	99%	25,003.0 µg/mL	+/- 146.3981 µg/mL
4	Methacrylonitrile	126-98-7	99%	12,502.0 µg/mL	+/- 73.2020 µg/mL
5	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	62,503.0 µg/mL	+/- 365.9688 µg/mL
6	1-Butanol	71-36-3	98%	124,982.3 µg/mL	+/- 731.7613 µg/mL
7	1,4-Dioxane	123-91-1	99%	62,530.0 µg/mL	+/- 366.1269 µg/mL
8	trans-1,4-dichloro-2-butene	110-57-6	95%	12,496.3 µg/mL	+/- 73.1686 µg/mL
Solvent:	P&T Methanol	67-56-1	99%		

Specific Reference Material Notes:

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

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

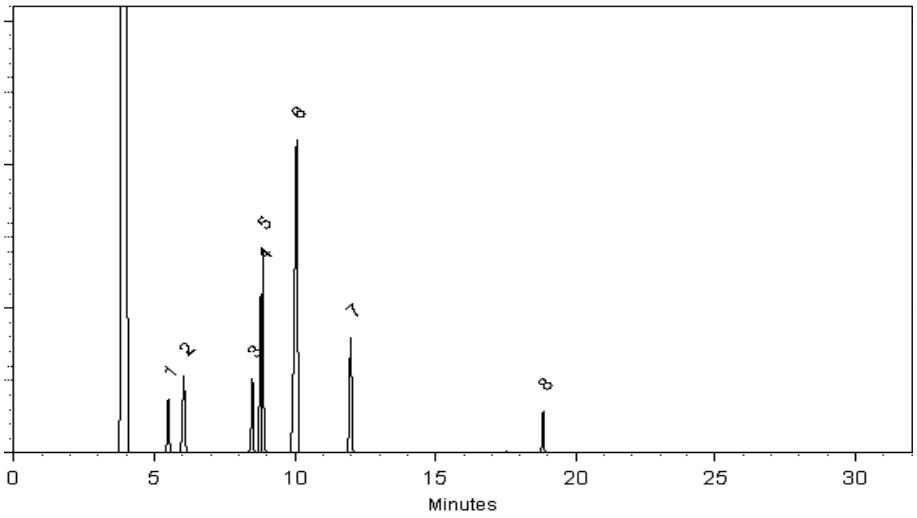
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Josh McCloskey - Operations Technician I

Date Mixed: 21-Apr-2022 **Balance:** B707717271

Christie Mills - Operations Technician II

Date Passed: 27-Apr-2022

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

General Reference Material Notes

Expiration Notes:

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

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/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.

Uncertainty Value Notes:

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V#2B_00290

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 56734 **Lot No.:** A0184378

Description : Custom V # 2B Standard

Custom V #2B Standard 12,500-125,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

Elution Order	Compound	CAS #	Percent Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Propanol (isopropanol)	67-63-0	99%	25,003.0 µg/mL	+/- 146.3981 µg/mL
2	tert-Butanol (TBA)	75-65-0	99%	25,000.0 µg/mL	+/- 146.3805 µg/mL
3	Propionitrile	107-12-0	99%	25,003.0 µg/mL	+/- 146.3981 µg/mL
4	Methacrylonitrile	126-98-7	99%	12,502.0 µg/mL	+/- 73.2020 µg/mL
5	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	62,503.0 µg/mL	+/- 365.9688 µg/mL
6	1-Butanol	71-36-3	98%	124,982.3 µg/mL	+/- 731.7613 µg/mL
7	1,4-Dioxane	123-91-1	99%	62,530.0 µg/mL	+/- 366.1269 µg/mL
8	trans-1,4-dichloro-2-butene	110-57-6	95%	12,496.3 µg/mL	+/- 73.1686 µg/mL
Solvent:	P&T Methanol	67-56-1	99%		

Specific Reference Material Notes:

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

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

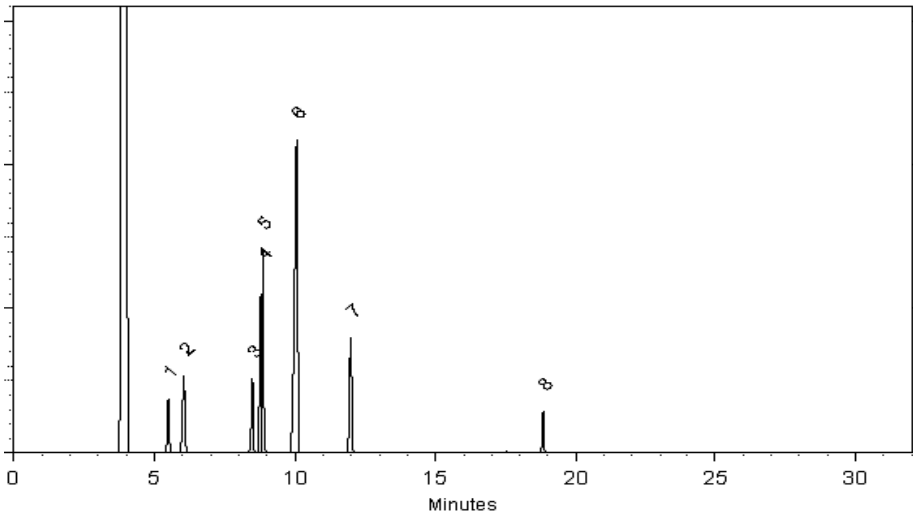
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Josh McCloskey - Operations Technician I

Date Mixed: 21-Apr-2022 **Balance:** B707717271

Christie Mills - Operations Technician II

Date Passed: 27-Apr-2022

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

General Reference Material Notes

Expiration Notes:

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

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/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.

Uncertainty Value Notes:

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_Ketones_00079

110 Benner Circle
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Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

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Reference Material Producer
Certificate #3222.01

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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. : 569721 **Lot No.:** A0174287

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 : July 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone		12,526.4 µg/mL	+/- 73.3448 µg/mL		Gravimetric
	CAS # 67-64-1	(Lot SHBN3661)		+/- 755.8230 µg/mL		Unstressed
	Purity 99%			+/- 757.6173 µg/mL		Stressed
2	2-Butanone (MEK)		12,543.6 µg/mL	+/- 73.4455 µg/mL		Gravimetric
	CAS # 78-93-3	(Lot SHBL5543)		+/- 756.8609 µg/mL		Unstressed
	Purity 99%			+/- 758.6575 µg/mL		Stressed
3	4-Methyl-2-pentanone (MIBK)		12,534.8 µg/mL	+/- 73.3940 µg/mL		Gravimetric
	CAS # 108-10-1	(Lot SHBM7956)		+/- 756.3299 µg/mL		Unstressed
	Purity 99%			+/- 758.1253 µg/mL		Stressed
4	2-Hexanone		12,617.6 µg/mL	+/- 73.8788 µg/mL		Gravimetric
	CAS # 591-78-6	(Lot MKCL1599)		+/- 761.3259 µg/mL		Unstressed
	Purity 99%			+/- 763.1332 µg/mL		Stressed

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

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

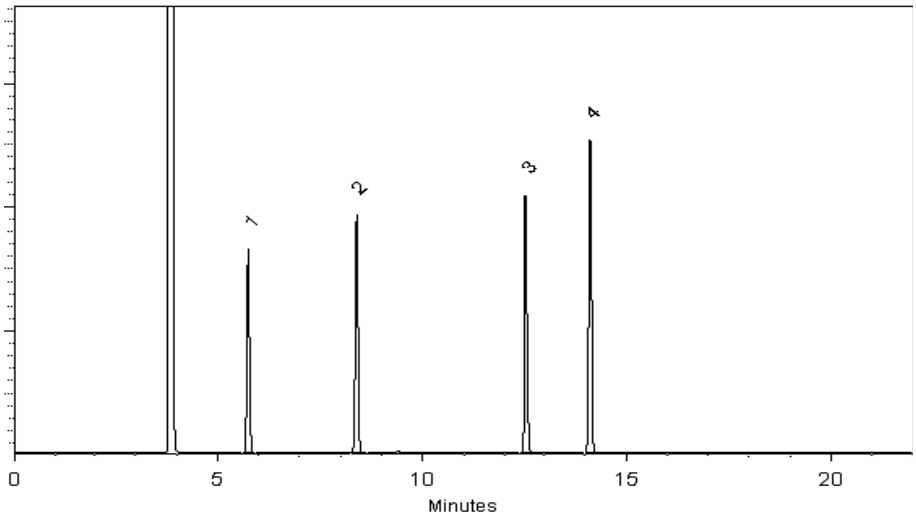
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Sam Moodler - Operations Tech I

Date Mixed: 11-Jul-2021 **Balance:** B707717271

Marlina Cowan - Operations Tech I

Date Passed: 13-Jul-2021

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_Ketones_00087

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569721 **Lot No.:** A0174287

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 : July 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone		12,526.4 µg/mL	+/- 73.3448 µg/mL	Gravimetric
	CAS # 67-64-1	(Lot SHBN3661)		+/- 755.8230 µg/mL	Unstressed
	Purity 99%			+/- 757.6173 µg/mL	Stressed
2	2-Butanone (MEK)		12,543.6 µg/mL	+/- 73.4455 µg/mL	Gravimetric
	CAS # 78-93-3	(Lot SHBL5543)		+/- 756.8609 µg/mL	Unstressed
	Purity 99%			+/- 758.6575 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)		12,534.8 µg/mL	+/- 73.3940 µg/mL	Gravimetric
	CAS # 108-10-1	(Lot SHBM7956)		+/- 756.3299 µg/mL	Unstressed
	Purity 99%			+/- 758.1253 µg/mL	Stressed
4	2-Hexanone		12,617.6 µg/mL	+/- 73.8788 µg/mL	Gravimetric
	CAS # 591-78-6	(Lot MKCL1599)		+/- 761.3259 µg/mL	Unstressed
	Purity 99%			+/- 763.1332 µg/mL	Stressed

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

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

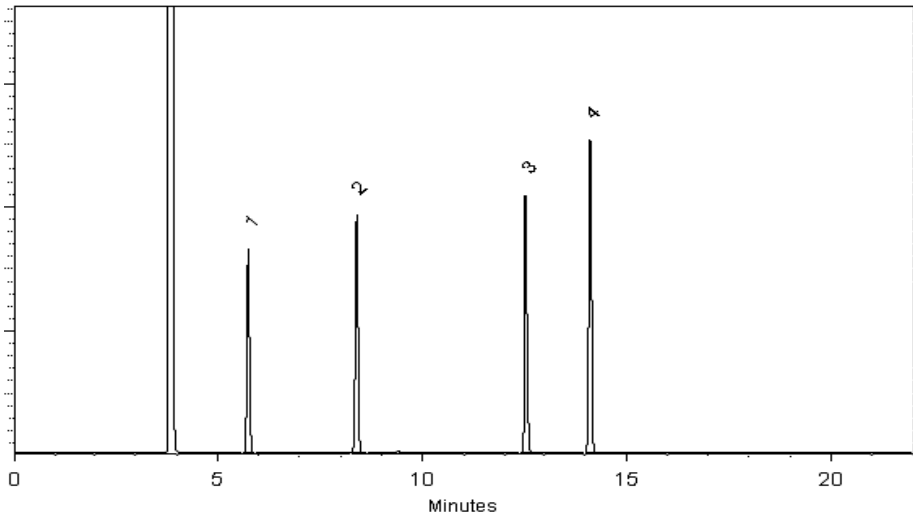
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Sam Moodler - Operations Tech I

Date Mixed: 11-Jul-2021 **Balance:** B707717271

Marlina Cowan - Operations Tech I

Date Passed: 13-Jul-2021

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_Ketones_00089

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Bellefonte, PA 16823-8812
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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. : 569721 **Lot No.:** A0174287

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 : July 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone		12,526.4 µg/mL	+/- 73.3448 µg/mL	Gravimetric
	CAS # 67-64-1	(Lot SHBN3661)		+/- 755.8230 µg/mL	Unstressed
	Purity 99%			+/- 757.6173 µg/mL	Stressed
2	2-Butanone (MEK)		12,543.6 µg/mL	+/- 73.4455 µg/mL	Gravimetric
	CAS # 78-93-3	(Lot SHBL5543)		+/- 756.8609 µg/mL	Unstressed
	Purity 99%			+/- 758.6575 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)		12,534.8 µg/mL	+/- 73.3940 µg/mL	Gravimetric
	CAS # 108-10-1	(Lot SHBM7956)		+/- 756.3299 µg/mL	Unstressed
	Purity 99%			+/- 758.1253 µg/mL	Stressed
4	2-Hexanone		12,617.6 µg/mL	+/- 73.8788 µg/mL	Gravimetric
	CAS # 591-78-6	(Lot MKCL1599)		+/- 761.3259 µg/mL	Unstressed
	Purity 99%			+/- 763.1332 µg/mL	Stressed

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

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

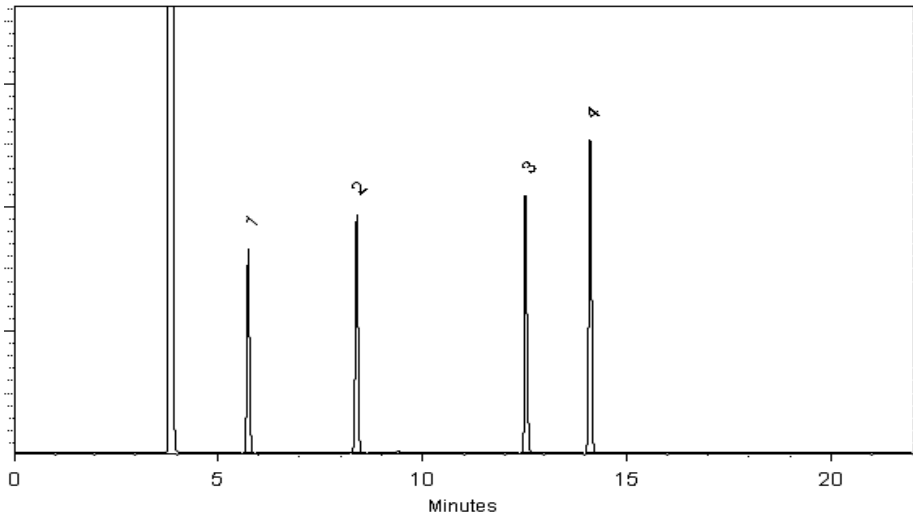
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Sam Moodler - Operations Tech I

Date Mixed: 11-Jul-2021 **Balance:** B707717271

Marlina Cowan - Operations Tech I

Date Passed: 13-Jul-2021

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_PentaCL_00020

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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. : 577491 **Lot No.:** A0171341

Description : Custom Pentachloroethane Standard

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

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

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachloroethane	5,006.0 µg/mL	+/- 29.3780 µg/mL	Gravimetric
	CAS # 76-01-7 (Lot 10518800)		+/- 280.7099 µg/mL	Unstressed
	Purity 99%		+/- 287.2768 µg/mL	Stressed

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

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

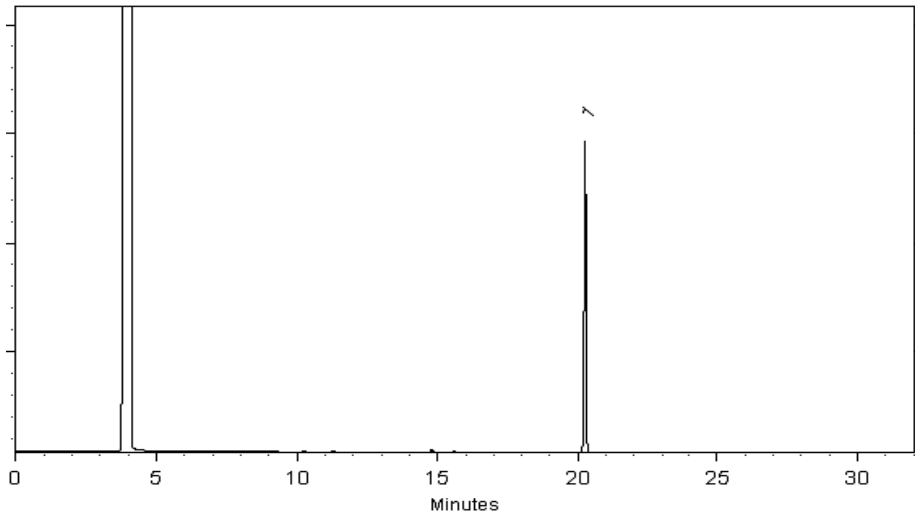
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Jeremy Warefield - Operations Tech I

Date Mixed: 14-Apr-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 19-Apr-2021

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_PentaCL_00023

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Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577491 **Lot No.:** A0171341

Description : Custom Pentachloroethane Standard

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

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

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachloroethane	5,006.0 µg/mL	+/- 29.3780 µg/mL	Gravimetric
	CAS # 76-01-7 (Lot 10518800)		+/- 280.7099 µg/mL	Unstressed
	Purity 99%		+/- 287.2768 µg/mL	Stressed

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

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

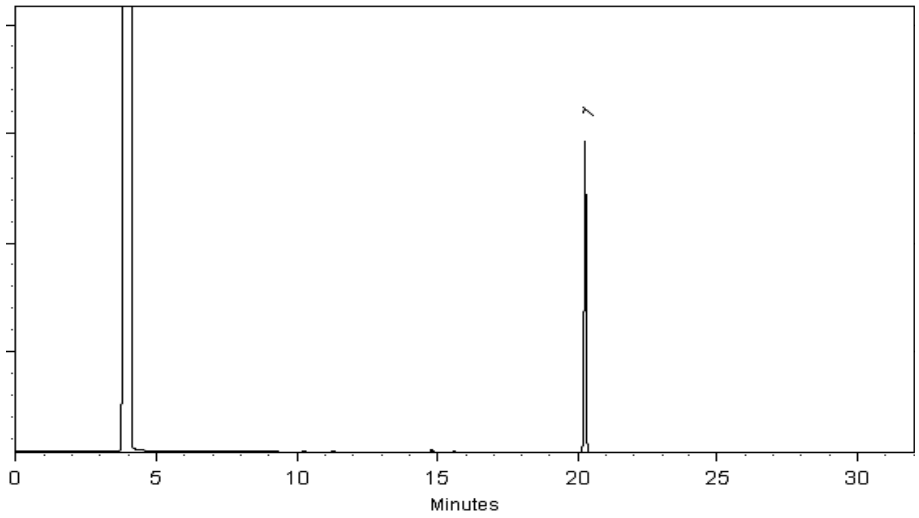
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Jeremy Warefield - Operations Tech I

Date Mixed: 14-Apr-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 19-Apr-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Method 8260D Low Level

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-103501-1

SDG No.:

Matrix: Water Level: Low

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

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
HD-COD-SW-6-0/1-0	410-103501-1	103	104	101	96
HD-COD-SW-7-0/1-0	410-103501-2	103	106	102	96
HD-COD-SW-8-0/1-0	410-103501-3	104	106	102	96
HD-COD-SW-9-0/1-0	410-103501-4	103	105	102	96
HD-COD-SW-13-0/1-0	410-103501-5	104	106	101	96
HD-COD-SW-15-0/1-0	410-103501-6	103	105	101	95
HD-COD-SW-16-0/1-0	410-103501-7	103	106	100	96
HD-COD-SW-17-0/1-0	410-103501-8	104	107	98	95
HD-COD-SW-17-0/1-0 DL	410-103501-8 DL	97	103	96	94
HD-COD-SW-26-0/1-0	410-103501-9	103	106	100	96
HD-COD-SW-27-0/1-0	410-103501-10	103	107	101	96
HD-COD-SW-28-0/1-0	410-103501-11	103	107	102	95
HD-COD-SW-29-0/1-0	410-103501-12	104	105	101	96
HD-QC1-0/1-1	410-103501-13	104	105	98	95
HD-QC1-0/1-1 DL	410-103501-13 DL	100	107	98	95
HD-QC1-0/1-2	410-103501-14	102	107	100	96
	MB 410-314355/6	103	105	101	96
	MB 410-315144/10	98	105	97	94
	LCS 410-314355/4	100	103	102	99
	LCS 410-315144/5	96	104	99	97
	LCSD 410-315144/6	99	106	99	97
HD-COD-SW-15-0/1-0 MS MS	410-103501-6 MS	101	102	102	100
HD-COD-SW-15-0/1-0 MSD MSD	410-103501-6 MSD	100	101	102	101

	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.: 410-103501-1

SDG No.:

Matrix: Water Level: Low Lab File ID: GN06X03.D

Lab ID: LCS 410-314355/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.46	109	71-134	
1,1,1-Trichloroethane	5.00	5.13	103	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.44	109	75-123	
1,1,2-Trichloroethane	5.00	5.29	106	80-120	
1,1-Dichloroethane	5.00	5.08	102	74-120	
1,1-Dichloroethene	5.00	5.11	102	80-131	
1,2-Dibromoethane (EDB)	5.00	5.09	102	80-120	
1,2-Dichloroethane	5.00	4.69	94	69-122	
1,2-Dichloropropane	5.00	5.29	106	80-120	
2-Butanone (MEK)	62.5	65.5	105	59-141	
2-Hexanone	62.5	62.8	100	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	62.4	100	55-140	
Acetone	62.5	60.4	97	60-146	
Benzene	5.00	5.18	104	80-120	
Bromochloromethane	5.00	5.16	103	80-120	
Bromodichloromethane	5.00	5.49	110	73-124	
Bromoform	5.00	6.68	134	49-144	
Bromomethane	5.00	4.18	84	60-136	
Carbon disulfide	5.00	6.80	136	67-130	*+
Carbon tetrachloride	5.00	5.42	108	64-141	
Chlorobenzene	5.00	4.96	99	80-120	
Chloroethane	5.00	4.60	92	63-120	
Chloroform	5.00	5.08	102	80-120	
Chloromethane	5.00	4.63	93	56-124	
cis-1,2-Dichloroethene	5.00	5.19	104	80-122	
cis-1,3-Dichloropropene	5.00	5.30	106	67-121	
Dibromochloromethane	5.00	5.91	118	64-138	
Ethylbenzene	5.00	5.07	101	80-120	
Methyl tert-butyl ether	5.00	5.06	101	69-120	
Methylene Chloride	5.00	5.23	105	80-120	
Styrene	5.00	4.94	99	80-120	
Tetrachloroethene	5.00	4.86	97	80-120	
Toluene	5.00	5.08	102	80-120	
trans-1,2-Dichloroethene	5.00	5.02	100	80-122	
trans-1,3-Dichloropropene	5.00	5.76	115	61-129	
Trichloroethene	5.00	4.88	98	80-120	
Vinyl chloride	5.00	4.42	88	60-125	
Xylenes, Total	15.0	15.2	101	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Matrix: Water Level: Low Lab File ID: IN08X04.D

Lab ID: LCS 410-315144/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.04	101	71-134	
1,1,1-Trichloroethane	5.00	4.70	94	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.76	115	75-123	
1,1,2-Trichloroethane	5.00	5.48	110	80-120	
1,1-Dichloroethane	5.00	4.79	96	74-120	
1,1-Dichloroethene	5.00	4.92	98	80-131	
1,2-Dibromoethane (EDB)	5.00	5.26	105	80-120	
1,2-Dichloroethane	5.00	4.62	92	69-122	
1,2-Dichloropropane	5.00	5.27	105	80-120	
2-Butanone (MEK)	62.5	43.2	69	59-141	
2-Hexanone	62.5	42.5	68	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	40.4	65	55-140	
Acetone	62.5	42.9	69	60-146	
Benzene	5.00	5.16	103	80-120	
Bromochloromethane	5.00	5.08	102	80-120	
Bromodichloromethane	5.00	5.19	104	73-124	
Bromoform	5.00	6.20	124	49-144	
Bromomethane	5.00	4.27	85	60-136	
Carbon disulfide	5.00	4.88	98	67-130	
Carbon tetrachloride	5.00	4.78	96	64-141	
Chlorobenzene	5.00	5.03	101	80-120	
Chloroethane	5.00	4.30	86	63-120	
Chloroform	5.00	4.86	97	80-120	
Chloromethane	5.00	4.22	84	56-124	
cis-1,2-Dichloroethene	5.00	5.16	103	80-122	
cis-1,3-Dichloropropene	5.00	4.91	98	67-121	
Dibromochloromethane	5.00	5.48	110	64-138	
Ethylbenzene	5.00	5.07	101	80-120	
Methyl tert-butyl ether	5.00	5.08	102	69-120	
Methylene Chloride	5.00	5.02	100	80-120	
Styrene	5.00	5.32	106	80-120	
Tetrachloroethene	5.00	4.81	96	80-120	
Toluene	5.00	5.06	101	80-120	
trans-1,2-Dichloroethene	5.00	4.85	97	80-122	
trans-1,3-Dichloropropene	5.00	5.17	103	61-129	
Trichloroethene	5.00	4.91	98	80-120	
Vinyl chloride	5.00	4.23	85	60-125	
Xylenes, Total	15.0	15.1	101	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Matrix: Water Level: Low Lab File ID: IN08X05.D

Lab ID: LCSD 410-315144/6 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	5.00	4.99	100	1	30	71-134	
1,1,1-Trichloroethane	5.00	4.73	95	1	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.61	112	3	30	75-123	
1,1,2-Trichloroethane	5.00	5.39	108	2	30	80-120	
1,1-Dichloroethane	5.00	4.81	96	0	30	74-120	
1,1-Dichloroethene	5.00	4.89	98	1	30	80-131	
1,2-Dibromoethane (EDB)	5.00	5.21	104	1	30	80-120	
1,2-Dichloroethane	5.00	4.72	94	2	30	69-122	
1,2-Dichloropropane	5.00	5.23	105	1	30	80-120	
2-Butanone (MEK)	62.5	43.8	70	1	30	59-141	
2-Hexanone	62.5	43.3	69	2	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	41.4	66	2	30	55-140	
Acetone	62.5	42.8	69	0	30	60-146	
Benzene	5.00	5.18	104	0	30	80-120	
Bromochloromethane	5.00	5.20	104	2	30	80-120	
Bromodichloromethane	5.00	5.18	104	0	30	73-124	
Bromoform	5.00	6.19	124	0	30	49-144	
Bromomethane	5.00	4.37	87	2	30	60-136	
Carbon disulfide	5.00	4.87	97	0	30	67-130	
Carbon tetrachloride	5.00	4.84	97	1	30	64-141	
Chlorobenzene	5.00	5.02	100	0	30	80-120	
Chloroethane	5.00	4.27	85	1	30	63-120	
Chloroform	5.00	4.89	98	0	30	80-120	
Chloromethane	5.00	4.20	84	0	30	56-124	
cis-1,2-Dichloroethene	5.00	5.15	103	0	30	80-122	
cis-1,3-Dichloropropene	5.00	5.01	100	2	30	67-121	
Dibromochloromethane	5.00	5.51	110	0	30	64-138	
Ethylbenzene	5.00	5.06	101	0	30	80-120	
Methyl tert-butyl ether	5.00	5.13	103	1	30	69-120	
Methylene Chloride	5.00	5.04	101	0	30	80-120	
Styrene	5.00	5.32	106	0	30	80-120	
Tetrachloroethene	5.00	4.77	95	1	30	80-120	
Toluene	5.00	5.09	102	0	30	80-120	
trans-1,2-Dichloroethene	5.00	4.84	97	0	30	80-122	
trans-1,3-Dichloropropene	5.00	5.20	104	1	30	61-129	
Trichloroethene	5.00	4.83	97	2	30	80-120	
Vinyl chloride	5.00	4.23	85	0	30	60-125	
Xylenes, Total	15.0	15.2	101	0	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Matrix: Water Level: Low Lab File ID: GN06X13.D

Lab ID: 410-103501-6 MS Client ID: HD-COD-SW-15-0/1-0MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	ND	6.08	122	71-134	
1,1,1-Trichloroethane	5.00	0.40 J	6.33	118	78-126	
1,1,2,2-Tetrachloroethane	5.00	ND	5.74	115	75-123	
1,1,2-Trichloroethane	5.00	ND	5.77	115	80-120	
1,1-Dichloroethane	5.00	0.15 J	5.88	114	74-120	
1,1-Dichloroethene	5.00	0.18 J	6.35	123	80-131	
1,2-Dibromoethane (EDB)	5.00	ND	5.57	111	80-120	
1,2-Dichloroethane	5.00	ND	5.32	106	69-122	
1,2-Dichloropropane	5.00	ND	5.96	119	80-120	
2-Butanone (MEK)	62.6	ND	64.4	103	59-141	
2-Hexanone	62.6	ND	61.2	98	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	ND	60.5	97	55-140	
Acetone	62.6	ND	66.7	107	60-146	
Benzene	5.00	ND	5.89	118	80-120	
Bromochloromethane	5.00	ND	5.69	114	80-120	
Bromodichloromethane	5.00	ND	6.15	123	73-124	
Bromoform	5.00	ND	6.98	140	49-144	
Bromomethane	5.00	ND	4.64	93	60-136	
Carbon disulfide	5.00	ND	8.15	163	67-130	FH
Carbon tetrachloride	5.00	ND	6.34	127	64-141	
Chlorobenzene	5.00	ND	5.61	112	80-120	
Chloroethane	5.00	ND	5.22	104	63-120	
Chloroform	5.00	0.35 J	6.03	113	80-120	
Chloromethane	5.00	ND	5.18	104	80-120	
cis-1,2-Dichloroethene	5.00	2.3	8.30	120	80-122	
cis-1,3-Dichloropropene	5.00	ND	5.78	116	67-121	
Dibromochloromethane	5.00	ND	6.44	129	64-138	
Ethylbenzene	5.00	ND	5.82	116	80-120	
Methyl tert-butyl ether	5.00	ND	5.56	111	69-120	
Methylene Chloride	5.00	ND	5.99	120	80-120	
Styrene	5.00	ND	5.60	112	80-120	
Tetrachloroethene	5.00	5.5	11.1	112	80-120	
Toluene	5.00	ND	5.81	116	80-120	
trans-1,2-Dichloroethene	5.00	ND	5.84	117	80-122	
trans-1,3-Dichloropropene	5.00	ND	6.24	125	61-129	
Trichloroethene	5.00	1.6	7.32	113	80-120	
Vinyl chloride	5.00	ND	5.07	101	60-125	
Xylenes, Total	15.0	ND	17.1	114	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Matrix: Water Level: Low Lab File ID: GN06X14.D

Lab ID: 410-103501-6 MSD Client ID: HD-COD-SW-15-0/1-0MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	6.03	120	1	30	71-134	
1,1,1-Trichloroethane	5.00	6.21	116	2	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.66	113	1	30	75-123	
1,1,2-Trichloroethane	5.00	5.67	113	2	30	80-120	
1,1-Dichloroethane	5.00	5.90	115	0	30	74-120	
1,1-Dichloroethene	5.00	6.19	120	3	30	80-131	
1,2-Dibromoethane (EDB)	5.00	5.53	110	1	30	80-120	
1,2-Dichloroethane	5.00	5.11	102	4	30	69-122	
1,2-Dichloropropane	5.00	5.81	116	2	30	80-120	
2-Butanone (MEK)	62.6	70.7	113	9	30	59-141	
2-Hexanone	62.6	65.7	105	7	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	65.2	104	8	30	55-140	
Acetone	62.6	71.7	115	7	30	60-146	
Benzene	5.00	5.81	116	1	30	80-120	
Bromochloromethane	5.00	5.69	114	0	30	80-120	
Bromodichloromethane	5.00	6.01	120	2	30	73-124	
Bromoform	5.00	6.97	139	0	30	49-144	
Bromomethane	5.00	4.70	94	1	30	60-136	
Carbon disulfide	5.00	7.97	159	2	30	67-130	FH
Carbon tetrachloride	5.00	6.24	125	1	30	64-141	
Chlorobenzene	5.00	5.50	110	2	30	80-120	
Chloroethane	5.00	5.26	105	1	30	63-120	
Chloroform	5.00	6.00	113	1	30	80-120	
Chloromethane	5.00	5.17	103	0	30	80-120	
cis-1,2-Dichloroethene	5.00	8.24	118	1	30	80-122	
cis-1,3-Dichloropropene	5.00	5.68	114	2	30	67-121	
Dibromochloromethane	5.00	6.33	126	2	30	64-138	
Ethylbenzene	5.00	5.72	114	2	30	80-120	
Methyl tert-butyl ether	5.00	5.57	111	0	30	69-120	
Methylene Chloride	5.00	5.86	117	2	30	80-120	
Styrene	5.00	5.48	110	2	30	80-120	
Tetrachloroethene	5.00	11.0	111	1	30	80-120	
Toluene	5.00	5.72	114	2	30	80-120	
trans-1,2-Dichloroethene	5.00	5.71	114	2	30	80-122	
trans-1,3-Dichloropropene	5.00	6.11	122	2	30	61-129	
Trichloroethene	5.00	7.20	111	2	30	80-120	
Vinyl chloride	5.00	5.03	101	1	30	60-125	
Xylenes, Total	15.0	16.8	112	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.: 410-103501-1

SDG No.:

Lab File ID: GN06X05.D Lab Sample ID: MB 410-314355/6

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

Instrument ID: 16334 Date Analyzed: 11/06/2022 12:37

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 410-314355/4	GN06X03.D	11/06/2022 11:53
HD-QC1-0/1-2	410-103501-14	GN06X06.D	11/06/2022 13:03
HD-COD-SW-6-0/1-0	410-103501-1	GN06X07.D	11/06/2022 13:25
HD-COD-SW-7-0/1-0	410-103501-2	GN06X08.D	11/06/2022 13:47
HD-COD-SW-8-0/1-0	410-103501-3	GN06X09.D	11/06/2022 14:09
HD-COD-SW-9-0/1-0	410-103501-4	GN06X10.D	11/06/2022 14:31
HD-COD-SW-13-0/1-0	410-103501-5	GN06X11.D	11/06/2022 14:53
HD-COD-SW-15-0/1-0	410-103501-6	GN06X12.D	11/06/2022 15:15
HD-COD-SW-15-0/1-0MS MS	410-103501-6 MS	GN06X13.D	11/06/2022 15:37
HD-COD-SW-15-0/1-0MSD MSD	410-103501-6 MSD	GN06X14.D	11/06/2022 15:59
HD-COD-SW-16-0/1-0	410-103501-7	GN06X15.D	11/06/2022 16:21
HD-COD-SW-17-0/1-0	410-103501-8	GN06X16.D	11/06/2022 16:43
HD-COD-SW-26-0/1-0	410-103501-9	GN06X17.D	11/06/2022 17:05
HD-COD-SW-27-0/1-0	410-103501-10	GN06X18.D	11/06/2022 17:27
HD-COD-SW-28-0/1-0	410-103501-11	GN06X19.D	11/06/2022 17:49
HD-COD-SW-29-0/1-0	410-103501-12	GN06X20.D	11/06/2022 18:11
HD-QC1-0/1-1	410-103501-13	GN06X21.D	11/06/2022 18:33

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Lab File ID: IN08X09.D Lab Sample ID: MB 410-315144/10

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

Instrument ID: 19930 Date Analyzed: 11/08/2022 13:48

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 410-315144/5	IN08X04.D	11/08/2022 12:01
	LCSD 410-315144/6	IN08X05.D	11/08/2022 12:22
HD-COD-SW-17-0/1-0 DL	410-103501-8 DL	IN08X22.D	11/08/2022 18:24
HD-QC1-0/1-1 DL	410-103501-13 DL	IN08X23.D	11/08/2022 18:45

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-103501-1

SDG No.:

Lab File ID: GG16T01.D BFB Injection Date: 08/16/2022

Instrument ID: 16334 BFB Injection Time: 13:07

Analysis Batch No.: 286414

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.6	
75	30.0 - 60.0 % of mass 95	44.8	
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	96.9	
175	5.0 - 9.0 % of mass 174	7.4	(7.7) 1
176	95.0 - 101.0 % of mass 174	95.5	(98.6) 1
177	5.0 - 9.0 % of mass 176	6.1	(6.4) 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 410-286414/13	GG16X12.D	08/16/2022	17:26
	IC 410-286414/14	GG16X13.D	08/16/2022	17:48
	IC 410-286414/15	GG16X14.D	08/16/2022	18:10
	IC 410-286414/16	GG16X15.D	08/16/2022	18:32
	IC 410-286414/17	GG16X16.D	08/16/2022	18:54
	ICIS 410-286414/18	GG16X17.D	08/16/2022	19:17
	IC 410-286414/19	GG16X18.D	08/16/2022	19:38
	ICV 410-286414/21	GG16X20.D	08/16/2022	20:22

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-103501-1

SDG No.:

Lab File ID: GN06T02.D BFB Injection Date: 11/06/2022

Instrument ID: 16334 BFB Injection Time: 10:54

Analysis Batch No.: 314355

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.1
75	30.0 - 60.0 % of mass 95	46.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.7
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	93.2
175	5.0 - 9.0 % of mass 174	7.4 (7.9) 1
176	95.0 - 101.0 % of mass 174	89.4 (95.9) 1
177	5.0 - 9.0 % of mass 176	5.8 (6.5) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-314355/3	GN06X02.D	11/06/2022	11:30
	LCS 410-314355/4	GN06X03.D	11/06/2022	11:53
	MB 410-314355/6	GN06X05.D	11/06/2022	12:37
HD-QC1-0/1-2	410-103501-14	GN06X06.D	11/06/2022	13:03
HD-COD-SW-6-0/1-0	410-103501-1	GN06X07.D	11/06/2022	13:25
HD-COD-SW-7-0/1-0	410-103501-2	GN06X08.D	11/06/2022	13:47
HD-COD-SW-8-0/1-0	410-103501-3	GN06X09.D	11/06/2022	14:09
HD-COD-SW-9-0/1-0	410-103501-4	GN06X10.D	11/06/2022	14:31
HD-COD-SW-13-0/1-0	410-103501-5	GN06X11.D	11/06/2022	14:53
HD-COD-SW-15-0/1-0	410-103501-6	GN06X12.D	11/06/2022	15:15
HD-COD-SW-15-0/1-0MS MS	410-103501-6 MS	GN06X13.D	11/06/2022	15:37
HD-COD-SW-15-0/1-0MSD MSD	410-103501-6 MSD	GN06X14.D	11/06/2022	15:59
HD-COD-SW-16-0/1-0	410-103501-7	GN06X15.D	11/06/2022	16:21
HD-COD-SW-17-0/1-0	410-103501-8	GN06X16.D	11/06/2022	16:43
HD-COD-SW-26-0/1-0	410-103501-9	GN06X17.D	11/06/2022	17:05
HD-COD-SW-27-0/1-0	410-103501-10	GN06X18.D	11/06/2022	17:27
HD-COD-SW-28-0/1-0	410-103501-11	GN06X19.D	11/06/2022	17:49
HD-COD-SW-29-0/1-0	410-103501-12	GN06X20.D	11/06/2022	18:11
HD-QC1-0/1-1	410-103501-13	GN06X21.D	11/06/2022	18:33

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-103501-1

SDG No.:

Lab File ID: IC11T01.D BFB Injection Date: 10/11/2022

Instrument ID: 19930 BFB Injection Time: 14:28

Analysis Batch No.: 305355

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.3	
75	30.0 - 60.0 % of mass 95	47.6	
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	1.0	(1.1) 1
174	Greater than 50% of mass 95	90.1	
175	5.0 - 9.0 % of mass 174	6.7	(7.5) 1
176	95.0 - 101.0 % of mass 174	87.0	(96.6) 1
177	5.0 - 9.0 % of mass 176	6.0	(6.9) 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 410-305355/12	IC11X11.D	10/11/2022	18:14
	ICIS 410-305355/13	IC11X12.D	10/11/2022	18:35
	IC 410-305355/14	IC11X13.D	10/11/2022	18:56
	IC 410-305355/15	IC11X14.D	10/11/2022	19:16
	IC 410-305355/16	IC11X15.D	10/11/2022	19:38
	IC 410-305355/17	IC11X16.D	10/11/2022	19:59
	IC 410-305355/18	IC11X17.D	10/11/2022	20:20
	ICV 410-305355/19	IC11X18.D	10/11/2022	20:41

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-103501-1

SDG No.:

Lab File ID: IN08T01.D BFB Injection Date: 11/08/2022

Instrument ID: 19930 BFB Injection Time: 10:45

Analysis Batch No.: 315144

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.5	
75	30.0 - 60.0 % of mass 95	45.6	
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	90.6	
175	5.0 - 9.0 % of mass 174	6.7	(7.3) 1
176	95.0 - 101.0 % of mass 174	87.8	(96.9) 1
177	5.0 - 9.0 % of mass 176	5.9	(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 410-315144/3	IN08X02.D	11/08/2022	11:19
	LCS 410-315144/5	IN08X04.D	11/08/2022	12:01
	LCSD 410-315144/6	IN08X05.D	11/08/2022	12:22
	MB 410-315144/10	IN08X09.D	11/08/2022	13:48
HD-COD-SW-17-0/1-0 DL	410-103501-8 DL	IN08X22.D	11/08/2022	18:24
HD-QC1-0/1-1 DL	410-103501-13 DL	IN08X23.D	11/08/2022	18:45

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-103501-1

SDG No.:

Sample No.: ICIS 410-286414/18 Date Analyzed: 08/16/2022 19:17

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

Lab File ID (Standard): GG16X17.D Heated Purge: (Y/N) N

Calibration ID: 41911

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		142576	4.11	2328270	7.56	1837007	11.07
UPPER LIMIT		285152	4.61	4656540	8.06	3674014	11.57
LOWER LIMIT		71288	3.61	1164135	7.06	918504	10.57
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-286414/21		132771	4.12	2350459	7.56	1861581	11.07
CCVIS 410-314355/3		115561	4.14	1875781	7.57	1439011	11.07

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 8260D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-103501-1

SDG No.:

Sample No.: ICIS 410-286414/18 Date Analyzed: 08/16/2022 19:17

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

Lab File ID (Standard): GG16X17.D Heated Purge: (Y/N) N

Calibration ID: 41911

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		1096296	12.96				
UPPER LIMIT		2192592	13.46				
LOWER LIMIT		548148	12.46				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-286414/21		1110282	12.96				
CCVIS 410-314355/3		871469	12.94				

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 8260D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-103501-1

SDG No.:

Sample No.: CCVIS 410-314355/3 Date Analyzed: 11/06/2022 11:30

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

Lab File ID (Standard): GN06X02.D Heated Purge: (Y/N) N

Calibration ID: 41911

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		115561	4.14	1875781	7.57	1439011	11.07
UPPER LIMIT		231122	4.64	3751562	8.07	2878022	11.57
LOWER LIMIT		57781	3.64	937891	7.07	719506	10.57
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-314355/4		121052	4.15	1845608	7.57	1416576	11.07
MB 410-314355/6		127900	4.13	1782930	7.57	1373208	11.07
410-103501-14	HD-QC1-0/1-2	125936	4.14	1775698	7.56	1377698	11.07
410-103501-1	HD-COD-SW-6-0/1-0	125964	4.14	1753278	7.57	1357984	11.07
410-103501-2	HD-COD-SW-7-0/1-0	122335	4.13	1711663	7.57	1326024	11.07
410-103501-3	HD-COD-SW-8-0/1-0	127078	4.14	1750442	7.57	1362190	11.07
410-103501-4	HD-COD-SW-9-0/1-0	112673	4.14	1690270	7.57	1308743	11.07
410-103501-5	HD-COD-SW-13-0/1-0	125250	4.15	1722341	7.57	1340965	11.07
410-103501-6	HD-COD-SW-15-0/1-0	120503	4.14	1662014	7.57	1286117	11.07
410-103501-6 MS	HD-COD-SW-15-0/1-0MS MS	128745	4.13	1797241	7.57	1377524	11.07
410-103501-6 MSD	HD-COD-SW-15-0/1-0MSD MSD	119566	4.15	1821701	7.57	1395606	11.07
410-103501-7	HD-COD-SW-16-0/1-0	129323	4.13	1736500	7.57	1344844	11.07
410-103501-8	HD-COD-SW-17-0/1-0	128229	4.14	1767002	7.57	1399872	11.07
410-103501-9	HD-COD-SW-26-0/1-0	138344	4.15	1745534	7.57	1360701	11.07
410-103501-10	HD-COD-SW-27-0/1-0	143758	4.14	1787045	7.57	1381079	11.07
410-103501-11	HD-COD-SW-28-0/1-0	113161	4.14	1708583	7.57	1330998	11.07
410-103501-12	HD-COD-SW-29-0/1-0	135712	4.15	1753834	7.57	1357160	11.07
410-103501-13	HD-QC1-0/1-1	134366	4.14	1712293	7.57	1351445	11.07

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 8260D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-103501-1

SDG No.:

Sample No.: CCVIS 410-314355/3 Date Analyzed: 11/06/2022 11:30

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

Lab File ID (Standard): GN06X02.D Heated Purge: (Y/N) N

Calibration ID: 41911

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		871469	12.94				
UPPER LIMIT		1742938	13.44				
LOWER LIMIT		435735	12.44				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-314355/4		852457	12.94				
MB 410-314355/6		795991	12.95				
410-103501-14	HD-QC1-0/1-2	805957	12.94				
410-103501-1	HD-COD-SW-6-0/1-0	789558	12.95				
410-103501-2	HD-COD-SW-7-0/1-0	775938	12.94				
410-103501-3	HD-COD-SW-8-0/1-0	805348	12.95				
410-103501-4	HD-COD-SW-9-0/1-0	766699	12.95				
410-103501-5	HD-COD-SW-13-0/1-0	789312	12.95				
410-103501-6	HD-COD-SW-15-0/1-0	748255	12.95				
410-103501-6 MS	HD-COD-SW-15-0/1-0MS MS	836090	12.94				
410-103501-6 MSD	HD-COD-SW-15-0/1-0MSD MSD	845378	12.95				
410-103501-7	HD-COD-SW-16-0/1-0	794263	12.95				
410-103501-8	HD-COD-SW-17-0/1-0	806148	12.95				
410-103501-9	HD-COD-SW-26-0/1-0	791741	12.95				
410-103501-10	HD-COD-SW-27-0/1-0	806052	12.94				
410-103501-11	HD-COD-SW-28-0/1-0	775786	12.94				
410-103501-12	HD-COD-SW-29-0/1-0	800513	12.94				
410-103501-13	HD-QC1-0/1-1	779543	12.94				

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 8260D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-103501-1

SDG No.:

Sample No.: ICIS 410-305355/13 Date Analyzed: 10/11/2022 18:35

Instrument ID: 19930 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): IC11X12.D Heated Purge: (Y/N) N

Calibration ID: 43087

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		130547	4.14	2376313	7.63	1799294	11.10
UPPER LIMIT		261094	4.64	4752626	8.13	3598588	11.60
LOWER LIMIT		65274	3.64	1188157	7.13	899647	10.60
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-305355/19		125892	4.14	2363525	7.63	1797539	11.10
CCVIS 410-315144/3		139320	4.17	1701581	7.64	1323780	11.10

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 8260D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-103501-1

SDG No.:

Sample No.: ICIS 410-305355/13 Date Analyzed: 10/11/2022 18:35

Instrument ID: 19930 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): IC11X12.D Heated Purge: (Y/N) N

Calibration ID: 43087

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		1032219	12.98				
UPPER LIMIT		2064438	13.48				
LOWER LIMIT		516110	12.48				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-305355/19		1044567	12.99				
CCVIS 410-315144/3		784085	12.99				

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 8260D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-103501-1

SDG No.:

Sample No.: CCVIS 410-315144/3 Date Analyzed: 11/08/2022 11:19

Instrument ID: 19930 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): IN08X02.D Heated Purge: (Y/N) N

Calibration ID: 43087

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		139320	4.17	1701581	7.64	1323780	11.10
UPPER LIMIT		278640	4.67	3403162	8.14	2647560	11.60
LOWER LIMIT		69660	3.67	850791	7.14	661890	10.60
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-315144/5		149595	4.18	1682660	7.63	1302882	11.10
LCSD 410-315144/6		153279	4.19	1704218	7.63	1334745	11.10
MB 410-315144/10		137637	4.17	1640925	7.63	1274271	11.10
410-103501-8 DL	HD-COD-SW-17-0/1-0 DL	134804	4.17	1668364	7.63	1294654	11.10
410-103501-13 DL	HD-QC1-0/1-1 DL	140230	4.17	1626646	7.64	1286407	11.10

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 8260D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-103501-1

SDG No.:

Sample No.: CCVIS 410-315144/3 Date Analyzed: 11/08/2022 11:19

Instrument ID: 19930 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): IN08X02.D Heated Purge: (Y/N) N

Calibration ID: 43087

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		784085	12.99				
UPPER LIMIT		1568170	13.49				
LOWER LIMIT		392043	12.49				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-315144/5		753224	12.99				
LCSD 410-315144/6		778781	12.99				
MB 410-315144/10		719211	12.99				
410-103501-8 DL	HD-COD-SW-17-0/1-0 DL	731151	12.99				
410-103501-13 DL	HD-QC1-0/1-1 DL	728219	12.99				

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 8260D

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-6-0/1-0 Lab Sample ID: 410-103501-1

Matrix: Water Lab File ID: GN06X07.D

Analysis Method: 8260D Date Collected: 10/27/2022 10:20

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 13:25

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.3	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND	^c cn	1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND	*+	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-6-0/1-0 Lab Sample ID: 410-103501-1

Matrix: Water Lab File ID: GN06X07.D

Analysis Method: 8260D Date Collected: 10/27/2022 10:20

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 13:25

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X07.D
Lims ID: 410-103501-A-1
Client ID: HD-COD-SW-6-0/1-0
Sample Type: Client
Inject. Date: 06-Nov-2022 13:25:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070453-008
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Nov-2022 17:29:21 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

First Level Reviewer: DVW2 Date: 07-Nov-2022 17:20:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.093	2.087	0.006	96	2766	0.0539	
6 Vinyl chloride	62		2.203				ND	
9 Bromomethane	94		2.526				ND	
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96		3.422				ND	
20 Acetone	43	3.477	3.471	0.006	79	8513	1.33	
23 Carbon disulfide	76		3.708				ND	MU
29 Methylene Chloride	84		4.062				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.141	4.135	0.006	35	125964	50.0	
33 Methyl tert-butyl ether	73		4.458				ND	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63		5.129				ND	
41 2-Butanone (MEK)	43		5.946				ND	
42 cis-1,2-Dichloroethene	96	5.970	5.976	-0.006	78	2199	0.0456	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83		6.458				ND	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	94	447953	10.3	
53 1,1,1-Trichloroethane	97		6.677				ND	
56 Carbon tetrachloride	117		6.891				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.122	0.006	63	96025	10.4	M
60 Benzene	78		7.159				ND	
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.567	0.000	99	1753278	10.0	
68 Trichloroethene	95		8.043				ND	
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	
$ 83 Toluene-d8 (Surr)	98	9.597	9.597	0.000	93	1754667	10.1	
84 Toluene	92	9.671	9.671	0.000	99	3662	0.0311	
85 trans-1,3-Dichloropropene	75		9.939				ND	
106 1,1,2-Trichloroethane	97		10.140				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166		10.231				ND	7
109 2-Hexanone	43		10.366				ND	
111 Chlorodibromomethane	129		10.524				ND	
112 Ethylene Dibromide	107		10.634				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	84	1357984	10.0	
115 Chlorobenzene	112		11.097				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
116 Ethylbenzene	91		11.182				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.298				ND	7
120 o-Xylene	106		11.628				ND	
121 Styrene	104		11.640				ND	
122 Bromoform	173		11.798				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	94	621803	9.61	
127 1,1,2,2-Tetrachloroethane	83		12.176				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.950	12.944	0.006	94	789558	10.0	

QC Flag Legend

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

Reagents:

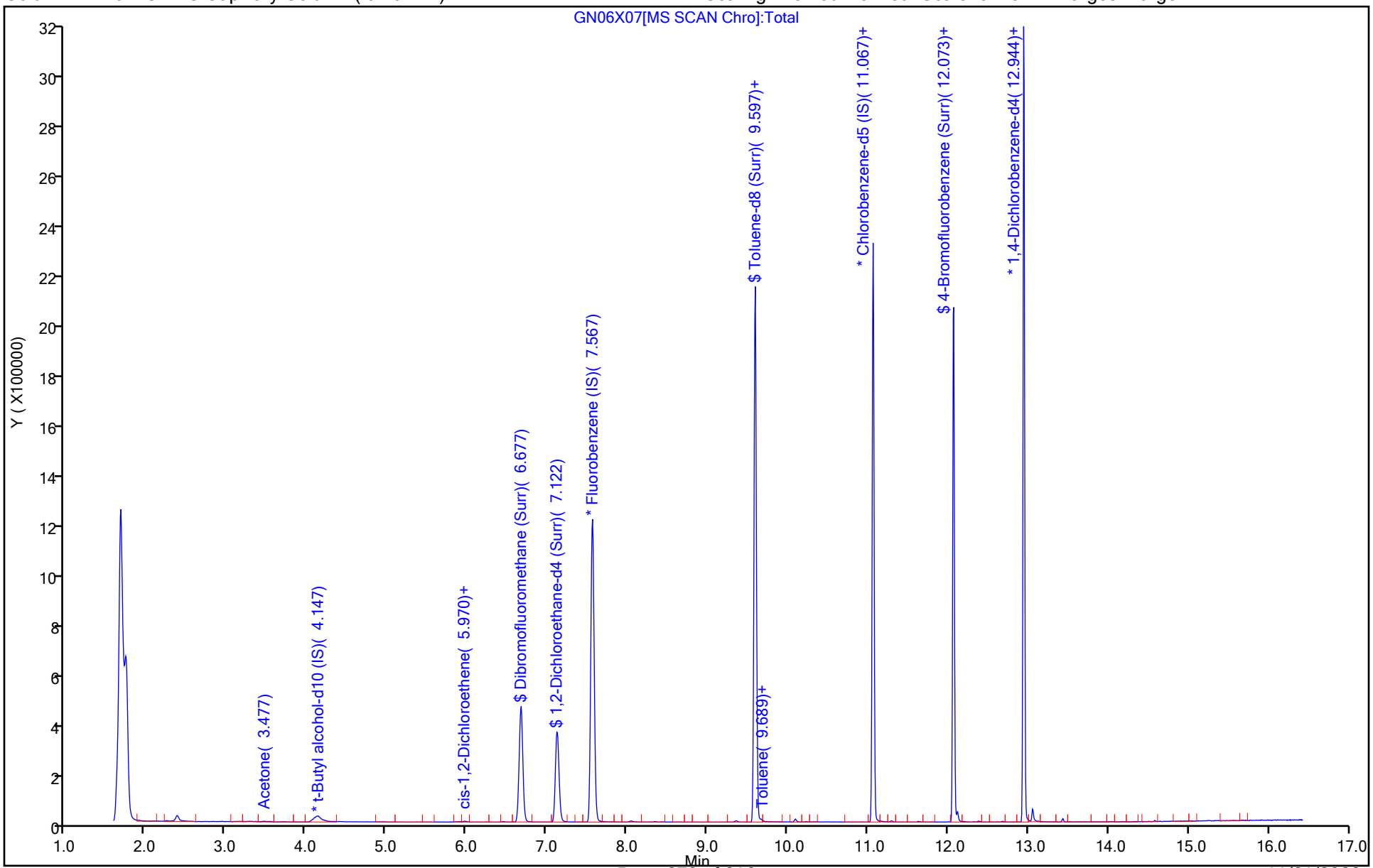
MSV_29_826ISS_00039 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 07-Nov-2022 21:09:58 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X07.D				
Injection Date:	06-Nov-2022 13:25:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-103501-A-1	Lab Sample ID:	410-103501-1	Worklist Smp#:	8
Client ID:	HD-COD-SW-6-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



11/21/2022
12:36 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X07.D				
Lims ID:	410-103501-A-1				
Client ID:	HD-COD-SW-6-0/1-0				
Sample Type:	Client				
Inject. Date:	06-Nov-2022 13:25:30	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0070453-008				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Nov-2022 17:29:21	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1606				

First Level Reviewer: DVW2 Date: 07-Nov-2022 17:20:59

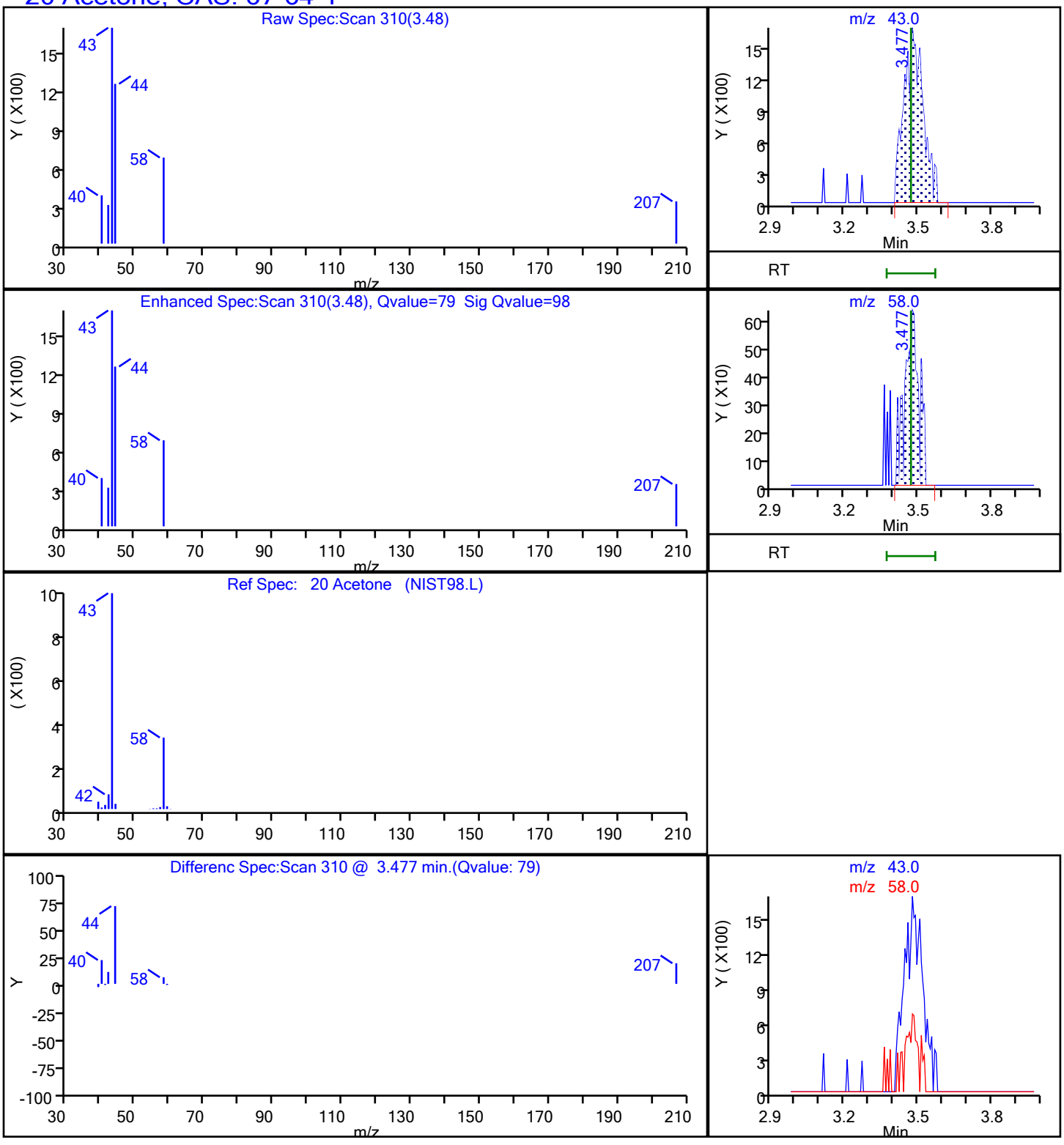
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	102.91
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	103.87
$ 83 Toluene-d8 (Surr)	10.0	10.1	100.90
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.61	96.06

Report Date: 07-Nov-2022 21:09:58 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X07.D				
Injection Date:	06-Nov-2022 13:25:30	Instrument ID:	16334		
Lims ID:	410-103501-A-1	Lab Sample ID:	410-103501-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Acetone, CAS: 67-64-1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

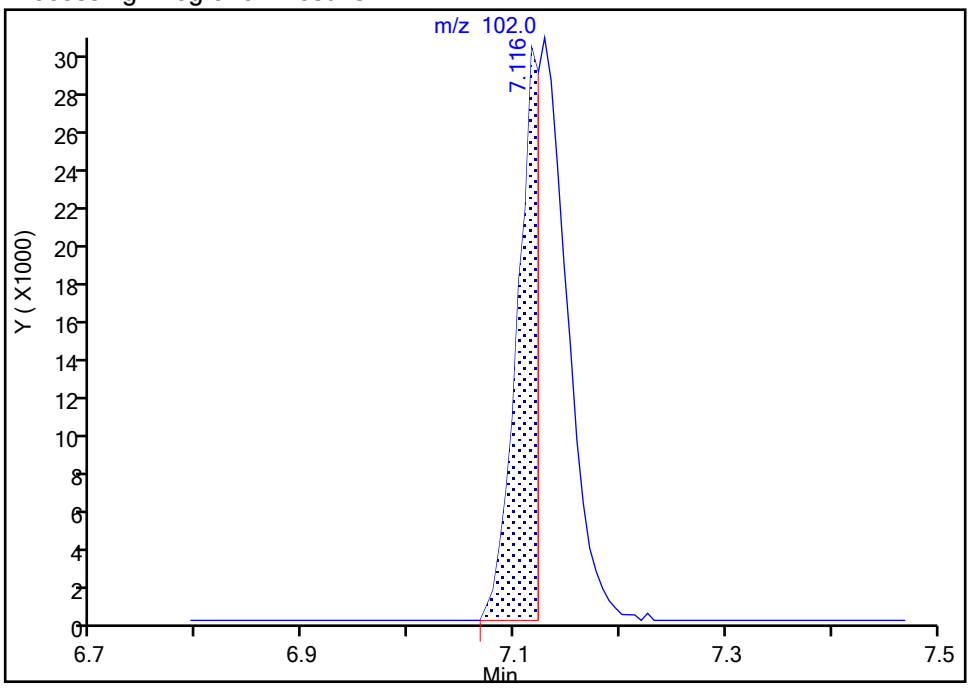
Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X07.D				
Injection Date:	06-Nov-2022 13:25:30	Instrument ID:	16334		
Lims ID:	410-103501-A-1	Lab Sample ID:	410-103501-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

$ 59 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

Signal: 1

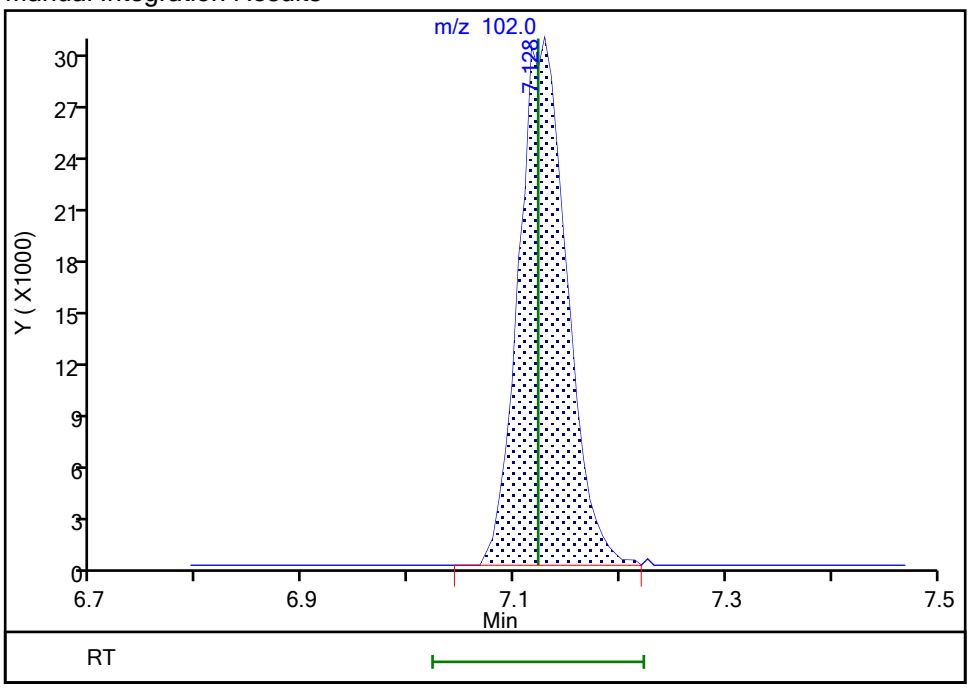
Processing Integration Results

RT: 7.12
Area: 44275
Amount: 4.789234
Amount Units: ug/l



Manual Integration Results

RT: 7.13
Area: 96025
Amount: 10.387041
Amount Units: ug/l



Reviewer: DVW2, 07-Nov-2022 17:19:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

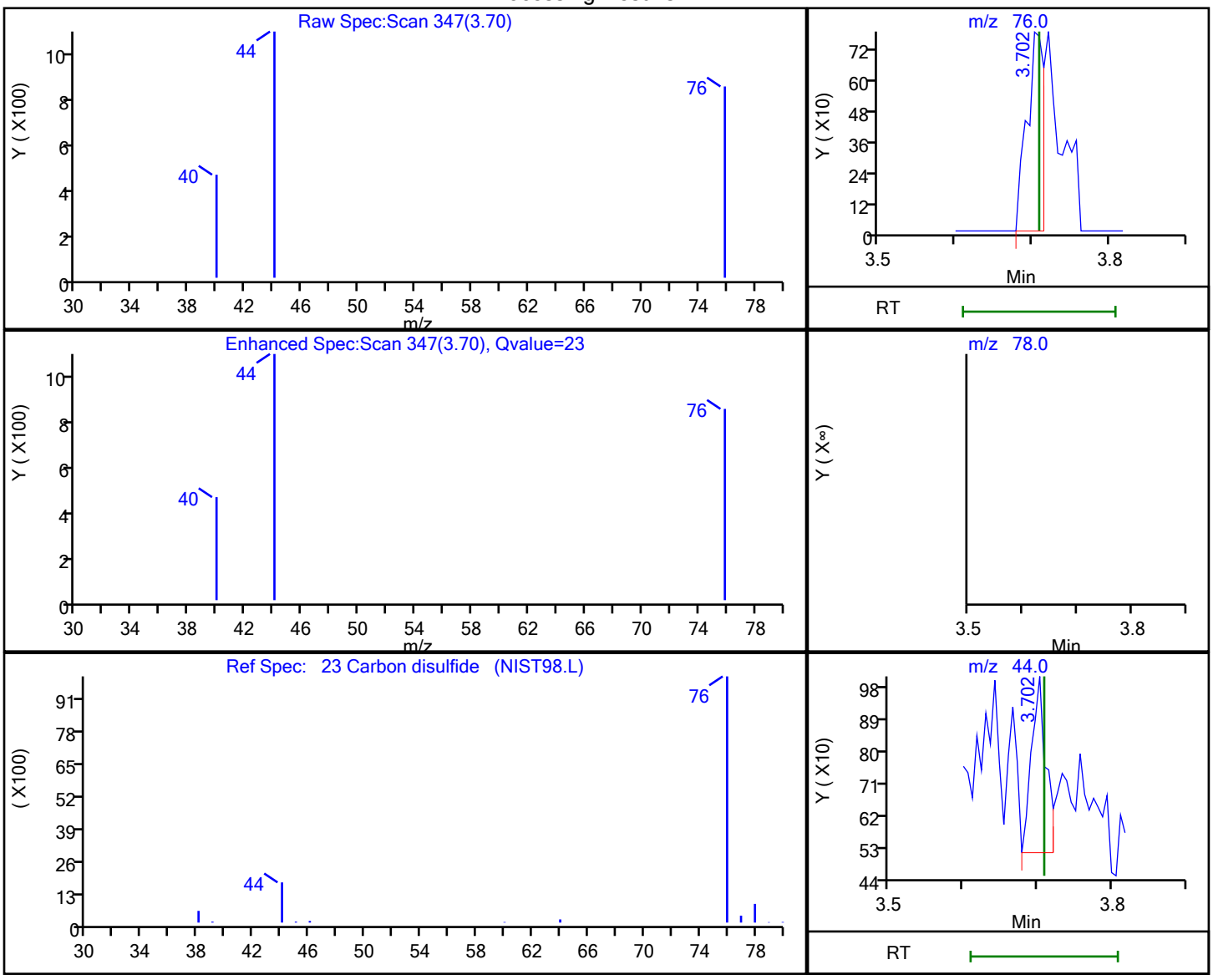
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X07.D				
Injection Date:	06-Nov-2022 13:25:30	Instrument ID:	16334		
Lims ID:	410-103501-A-1	Lab Sample ID:	410-103501-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

23 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
3.70	76.00	1209	0.013123
3.71	78.00	0	
3.70	44.00	678	

Reviewer: DVW2, 07-Nov-2022 17:19:05

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-7-0/1-0 Lab Sample ID: 410-103501-2

Matrix: Water Lab File ID: GN06X08.D

Analysis Method: 8260D Date Collected: 10/27/2022 11:00

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 13:47

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.7	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND	^c cn	1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND	*+	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.093	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.18	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-7-0/1-0 Lab Sample ID: 410-103501-2

Matrix: Water Lab File ID: GN06X08.D

Analysis Method: 8260D Date Collected: 10/27/2022 11:00

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 13:47

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.20	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		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\16334\20221106-70453.b\GN06X08.D
Lims ID: 410-103501-A-2
Client ID: HD-COD-SW-7-0/1-0
Sample Type: Client
Inject. Date: 06-Nov-2022 13:47:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070453-009
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Nov-2022 17:29:21 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

First Level Reviewer: DVW2 Date: 07-Nov-2022 17:21:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.093	2.087	0.006	97	4558	0.0909	
6 Vinyl chloride	62		2.203				ND	7
9 Bromomethane	94		2.526				ND	7
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96		3.422				ND	
20 Acetone	43	3.489	3.471	0.018	99	10714	1.73	
23 Carbon disulfide	76	3.708	3.708	0.000	100	7948	0.0884	
29 Methylene Chloride	84		4.062				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.129	4.135	-0.006	34	122335	50.0	
33 Methyl tert-butyl ether	73		4.458				ND	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63		5.129				ND	
41 2-Butanone (MEK)	43		5.946				ND	
42 cis-1,2-Dichloroethene	96	5.988	5.976	0.012	76	8658	0.1840	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.464	6.458	0.006	89	6959	0.0928	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	94	438788	10.3	
53 1,1,1-Trichloroethane	97		6.677				ND	
56 Carbon tetrachloride	117		6.891				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.122	0.006	63	96044	10.6	
60 Benzene	78		7.159				ND	
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.567	0.000	99	1711663	10.0	
68 Trichloroethene	95	8.049	8.043	0.006	97	9626	0.2012	
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	
$ 83 Toluene-d8 (Surr)	98	9.597	9.597	0.000	93	1725036	10.2	
84 Toluene	92	9.671	9.671	0.000	97	5043	0.0438	
85 trans-1,3-Dichloropropene	75		9.939				ND	
106 1,1,2-Trichloroethane	97		10.140				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.225	10.231	-0.006	94	4529	0.0782	
109 2-Hexanone	43		10.366				ND	
111 Chlorodibromomethane	129		10.524				ND	
112 Ethylene Dibromide	107		10.634				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	84	1326024	10.0	
115 Chlorobenzene	112		11.097				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
116 Ethylbenzene	91		11.182				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.298				ND	7
120 o-Xylene	106		11.628				ND	7
121 Styrene	104		11.640				ND	
122 Bromoform	173		11.798				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.073	12.066	0.006	95	607918	9.62	
127 1,1,2,2-Tetrachloroethane	83		12.176				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	94	775938	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

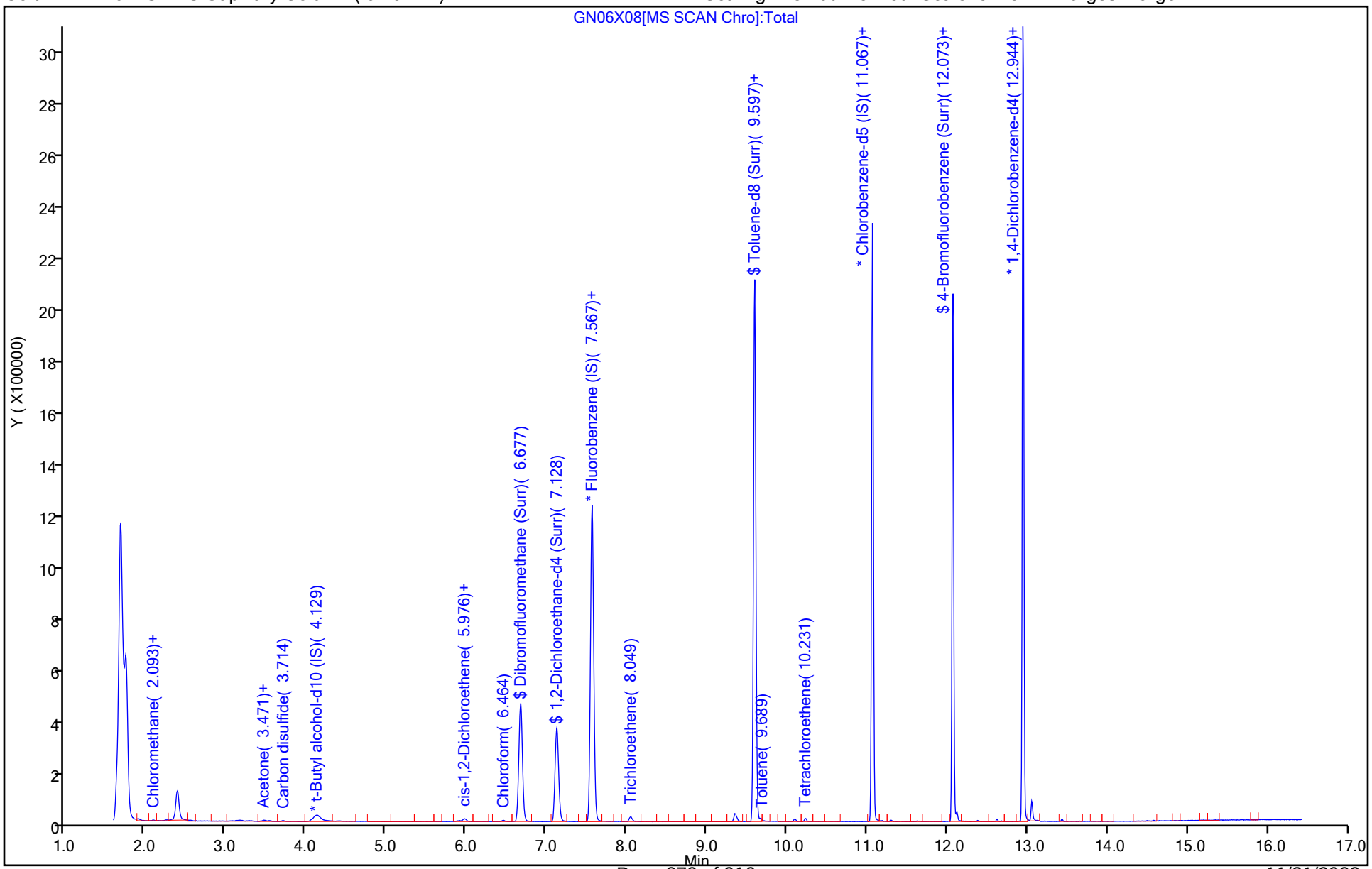
MSV_29_826ISS_00039 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 07-Nov-2022 21:10:00 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X08.D				
Injection Date:	06-Nov-2022 13:47:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-103501-A-2	Lab Sample ID:	410-103501-2	Worklist Smp#:	9
Client ID:	HD-COD-SW-7-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



11/21/2022
12:36 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X08.D				
Lims ID:	410-103501-A-2				
Client ID:	HD-COD-SW-7-0/1-0				
Sample Type:	Client				
Inject. Date:	06-Nov-2022 13:47:30	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0070453-009				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Nov-2022 17:29:21	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1606				

First Level Reviewer: DVW2 Date: 07-Nov-2022 17:21:18

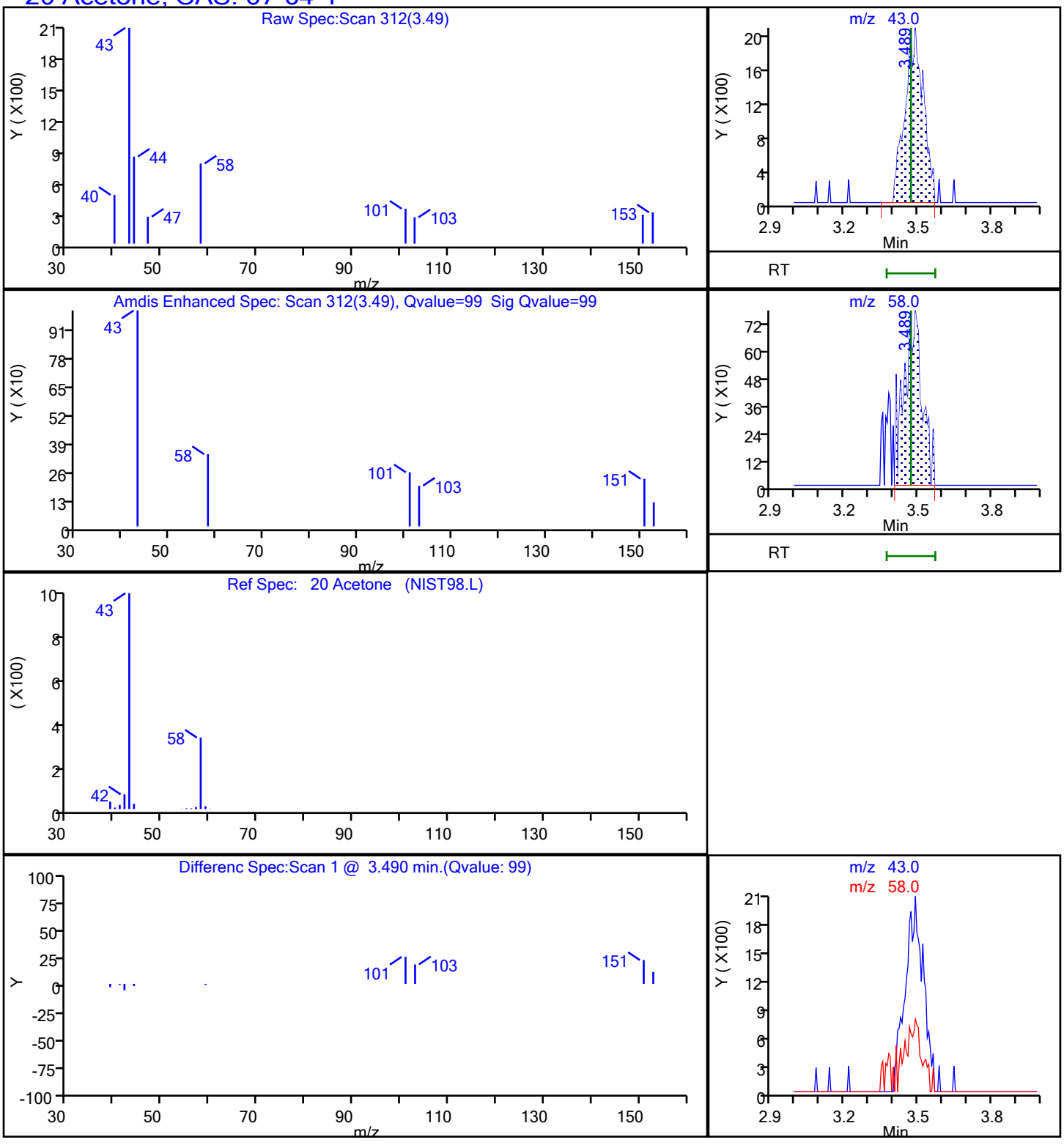
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	103.26
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	106.42
$ 83 Toluene-d8 (Surr)	10.0	10.2	101.58
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.62	96.18

Report Date: 07-Nov-2022 21:10:00 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X08.D				
Injection Date:	06-Nov-2022 13:47:30	Instrument ID:	16334		
Lims ID:	410-103501-A-2	Lab Sample ID:	410-103501-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

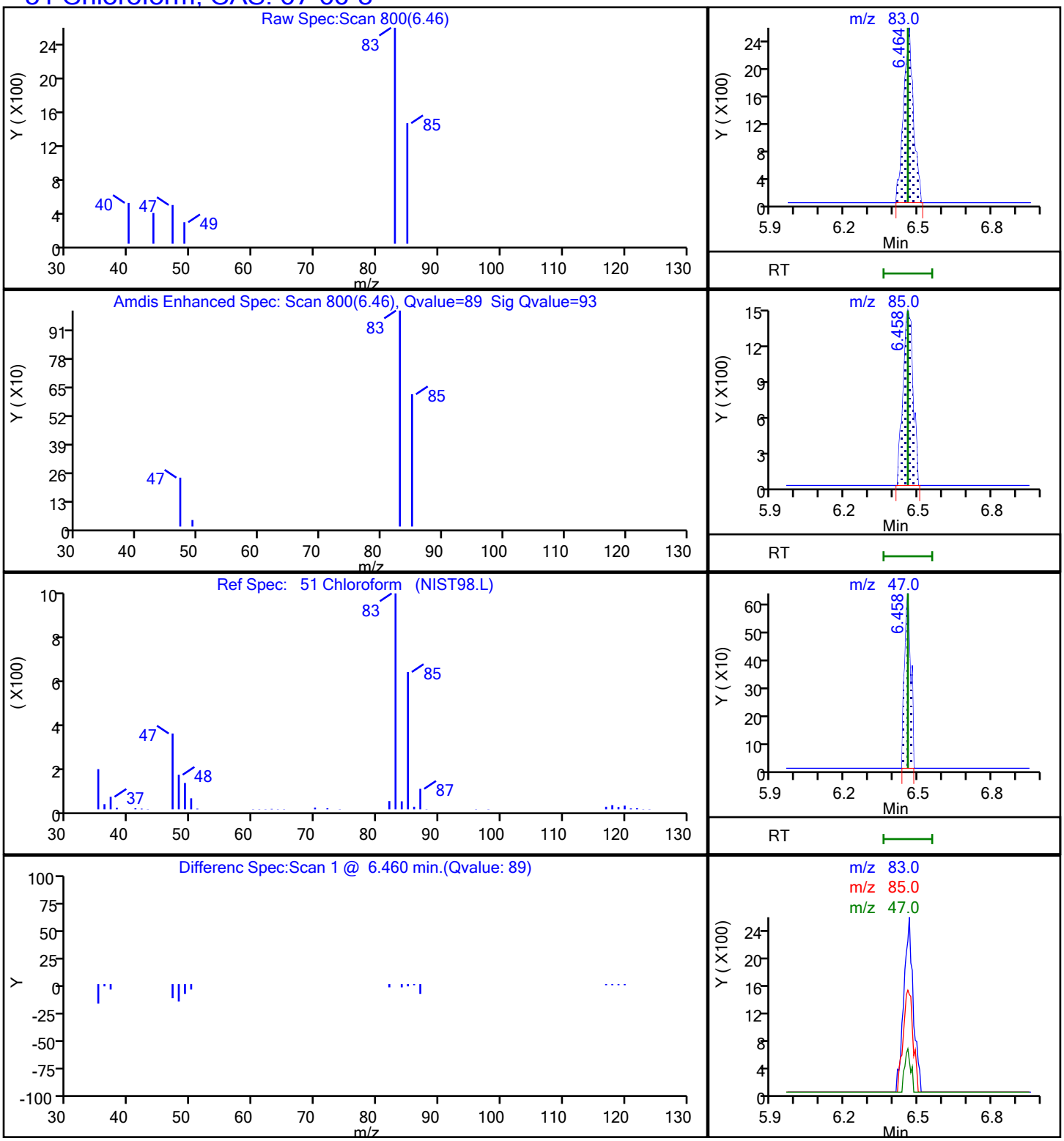
20 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X08.D				
Injection Date:	06-Nov-2022 13:47:30	Instrument ID:	16334		
Lims ID:	410-103501-A-2	Lab Sample ID:	410-103501-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

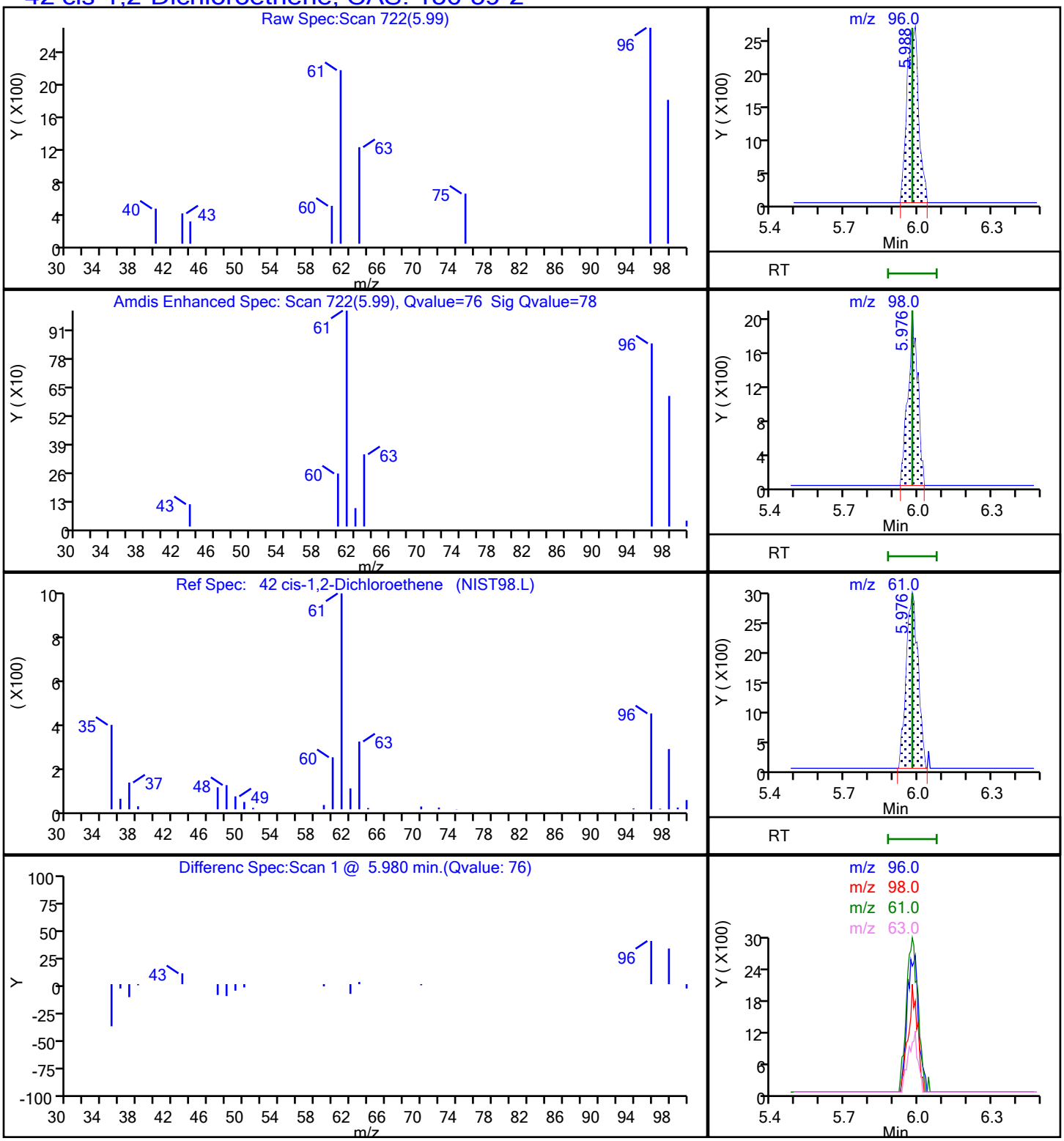
51 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X08.D				
Injection Date:	06-Nov-2022 13:47:30	Instrument ID:	16334		
Lims ID:	410-103501-A-2	Lab Sample ID:	410-103501-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

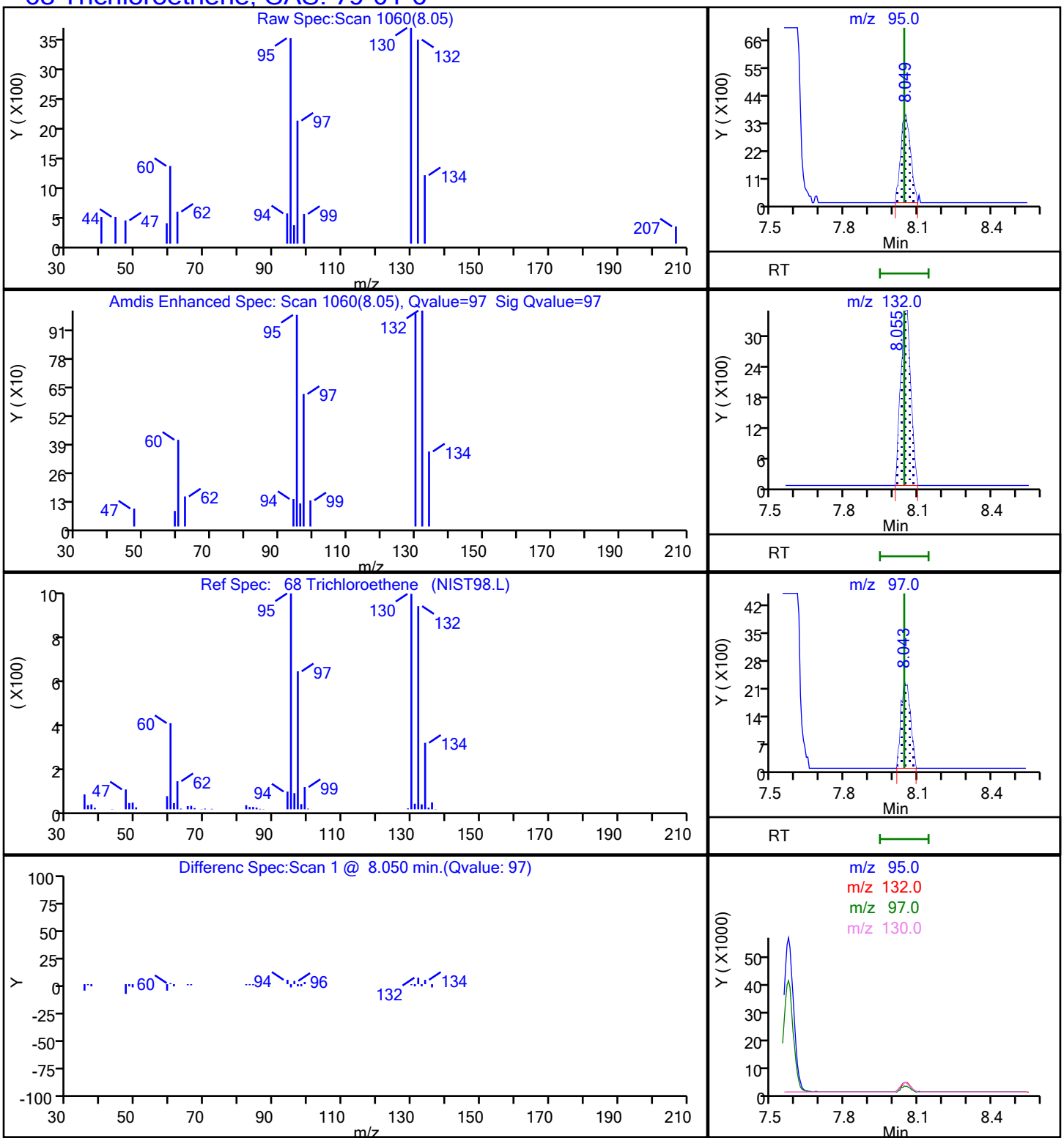
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X08.D				
Injection Date:	06-Nov-2022 13:47:30	Instrument ID:	16334		
Lims ID:	410-103501-A-2	Lab Sample ID:	410-103501-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-8-0/1-0 Lab Sample ID: 410-103501-3

Matrix: Water Lab File ID: GN06X09.D

Analysis Method: 8260D Date Collected: 10/27/2022 09:15

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 14:09

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.4	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND	^c cn	1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND	*+	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.19	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.70		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-8-0/1-0 Lab Sample ID: 410-103501-3

Matrix: Water Lab File ID: GN06X09.D

Analysis Method: 8260D Date Collected: 10/27/2022 09:15

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 14:09

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.20	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X09.D
Lims ID: 410-103501-A-3
Client ID: HD-COD-SW-8-0/1-0
Sample Type: Client
Inject. Date: 06-Nov-2022 14:09:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070453-010
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Nov-2022 17:29:21 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

First Level Reviewer: DVW2 Date: 07-Nov-2022 17:21:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.087				ND	
6 Vinyl chloride	62		2.203				ND	
9 Bromomethane	94		2.526				ND	
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96		3.422				ND	
20 Acetone	43	3.495	3.471	0.024	70	9064	1.41	
23 Carbon disulfide	76	3.714	3.708	0.006	47	3566	0.0388	
29 Methylene Chloride	84		4.062				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.141	4.135	0.006	34	127078	50.0	
33 Methyl tert-butyl ether	73		4.458				ND	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63		5.129				ND	
41 2-Butanone (MEK)	43		5.946				ND	
42 cis-1,2-Dichloroethene	96	5.976	5.976	0.000	78	9349	0.1943	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.476	6.458	0.018	21	4731	0.0617	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	94	449908	10.4	
53 1,1,1-Trichloroethane	97	6.696	6.677	0.019	60	3641	0.0544	
56 Carbon tetrachloride	117		6.891				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.122	0.006	63	97382	10.6	
60 Benzene	78		7.159				ND	
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.567	0.000	99	1750442	10.0	
68 Trichloroethene	95	8.055	8.043	0.012	95	9679	0.1978	
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	
$ 83 Toluene-d8 (Surr)	98	9.597	9.597	0.000	93	1771626	10.2	
84 Toluene	92	9.664	9.671	-0.007	95	4332	0.0367	
85 trans-1,3-Dichloropropene	75		9.939				ND	
106 1,1,2-Trichloroethane	97		10.140				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.231	10.231	0.000	96	41727	0.7012	
109 2-Hexanone	43		10.366				ND	
111 Chlorodibromomethane	129		10.524				ND	
112 Ethylene Dibromide	107		10.634				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	84	1362190	10.0	
115 Chlorobenzene	112		11.097				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
116 Ethylbenzene	91		11.182				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.298				ND	7
120 o-Xylene	106		11.628				ND	
121 Styrene	104		11.640				ND	
122 Bromoform	173		11.798				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.073	12.066	0.007	97	625551	9.63	
127 1,1,2,2-Tetrachloroethane	83		12.176				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.950	12.944	0.006	93	805348	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

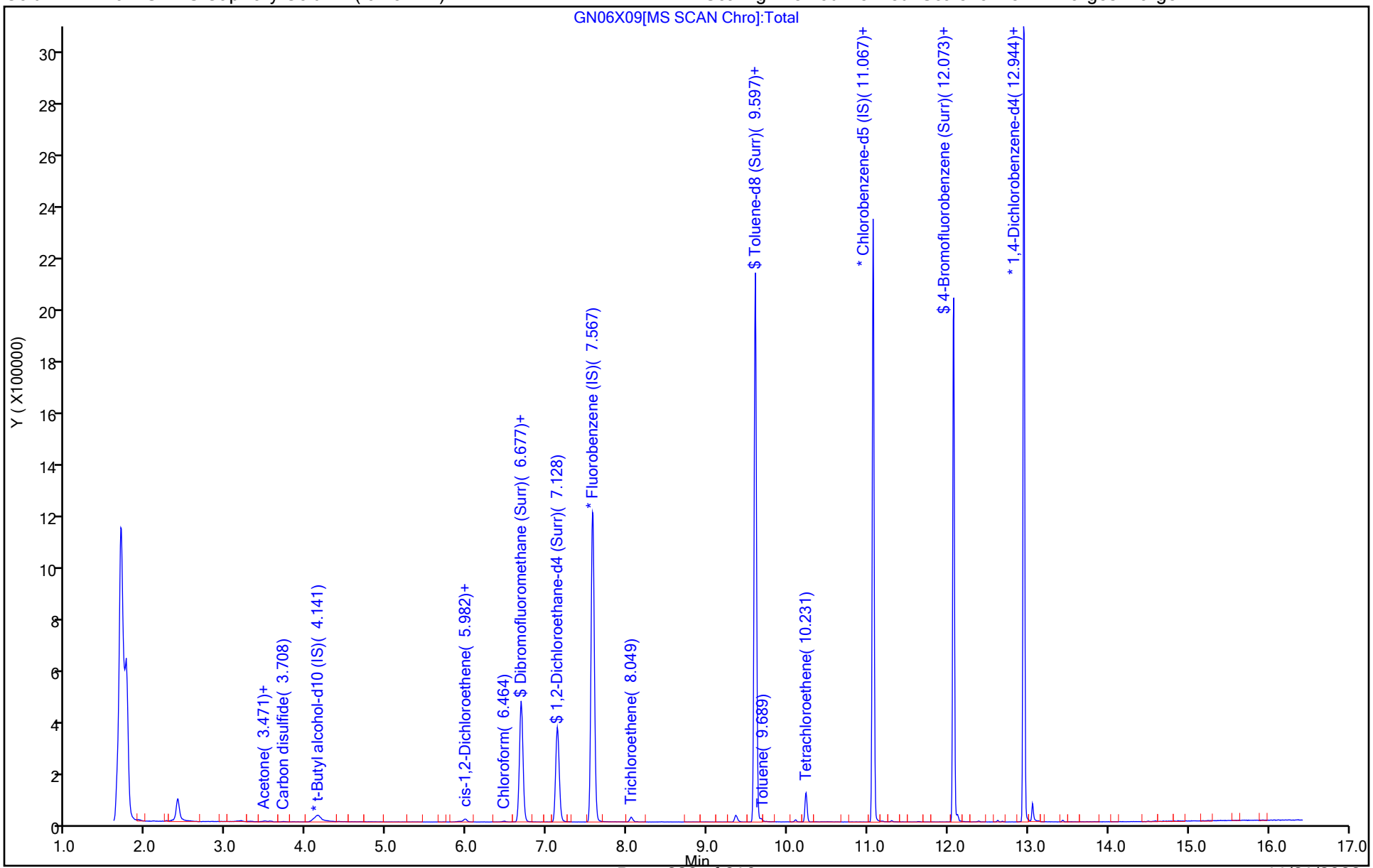
MSV_29_826ISS_00039 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 07-Nov-2022 21:10:01 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X09.D				
Injection Date:	06-Nov-2022 14:09:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-103501-A-3	Lab Sample ID:	410-103501-3	Worklist Smp#:	10
Client ID:	HD-COD-SW-8-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X09.D				
Lims ID:	410-103501-A-3				
Client ID:	HD-COD-SW-8-0/1-0				
Sample Type:	Client				
Inject. Date:	06-Nov-2022 14:09:30	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0070453-010				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Nov-2022 17:29:21	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1606				

First Level Reviewer: DVW2 Date: 07-Nov-2022 17:21:39

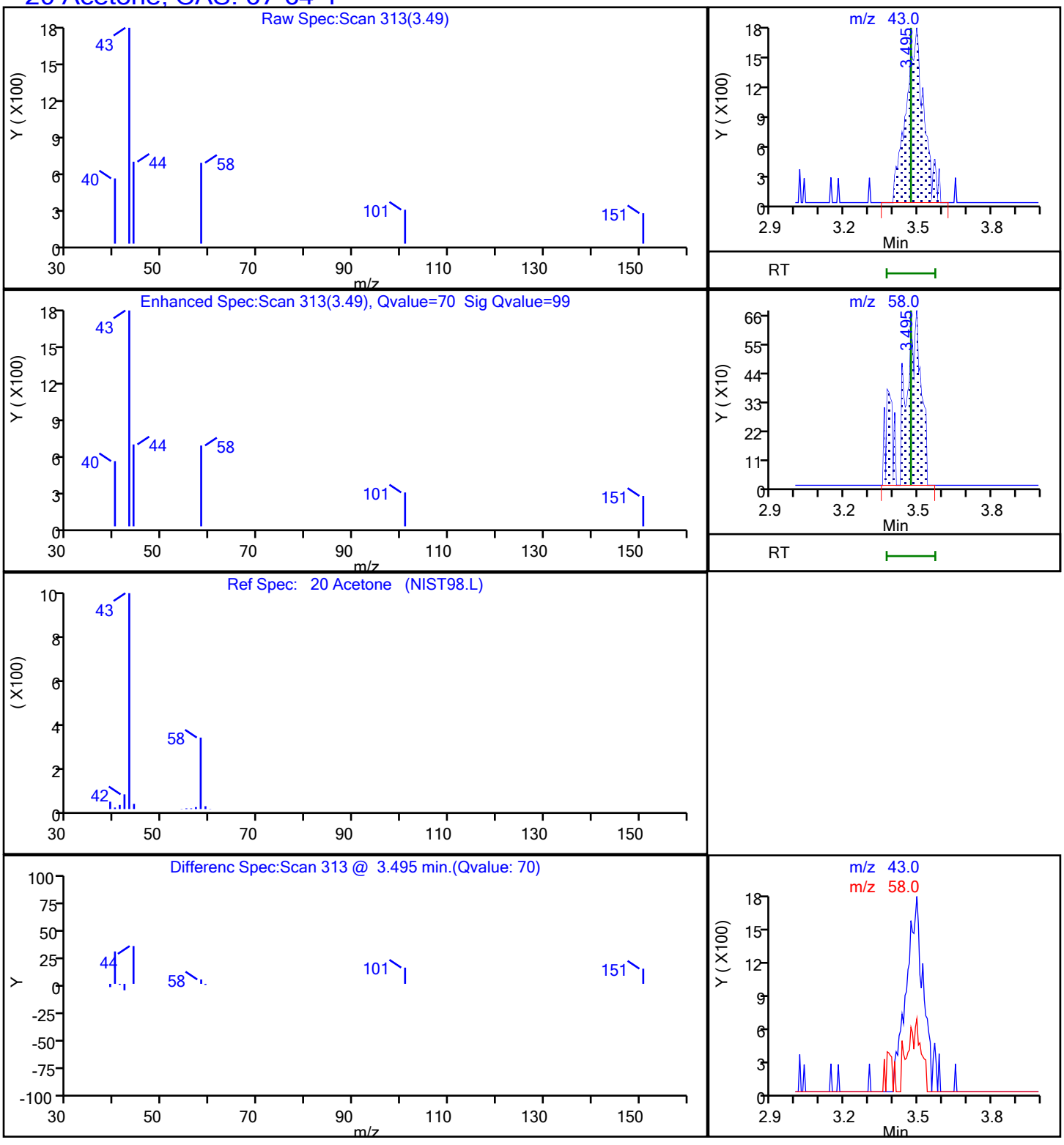
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.4	103.53
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.51
$ 83 Toluene-d8 (Surr)	10.0	10.2	101.56
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.63	96.34

Report Date: 07-Nov-2022 21:10:01 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X09.D				
Injection Date:	06-Nov-2022 14:09:30	Instrument ID:	16334		
Lims ID:	410-103501-A-3	Lab Sample ID:	410-103501-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Acetone, CAS: 67-64-1



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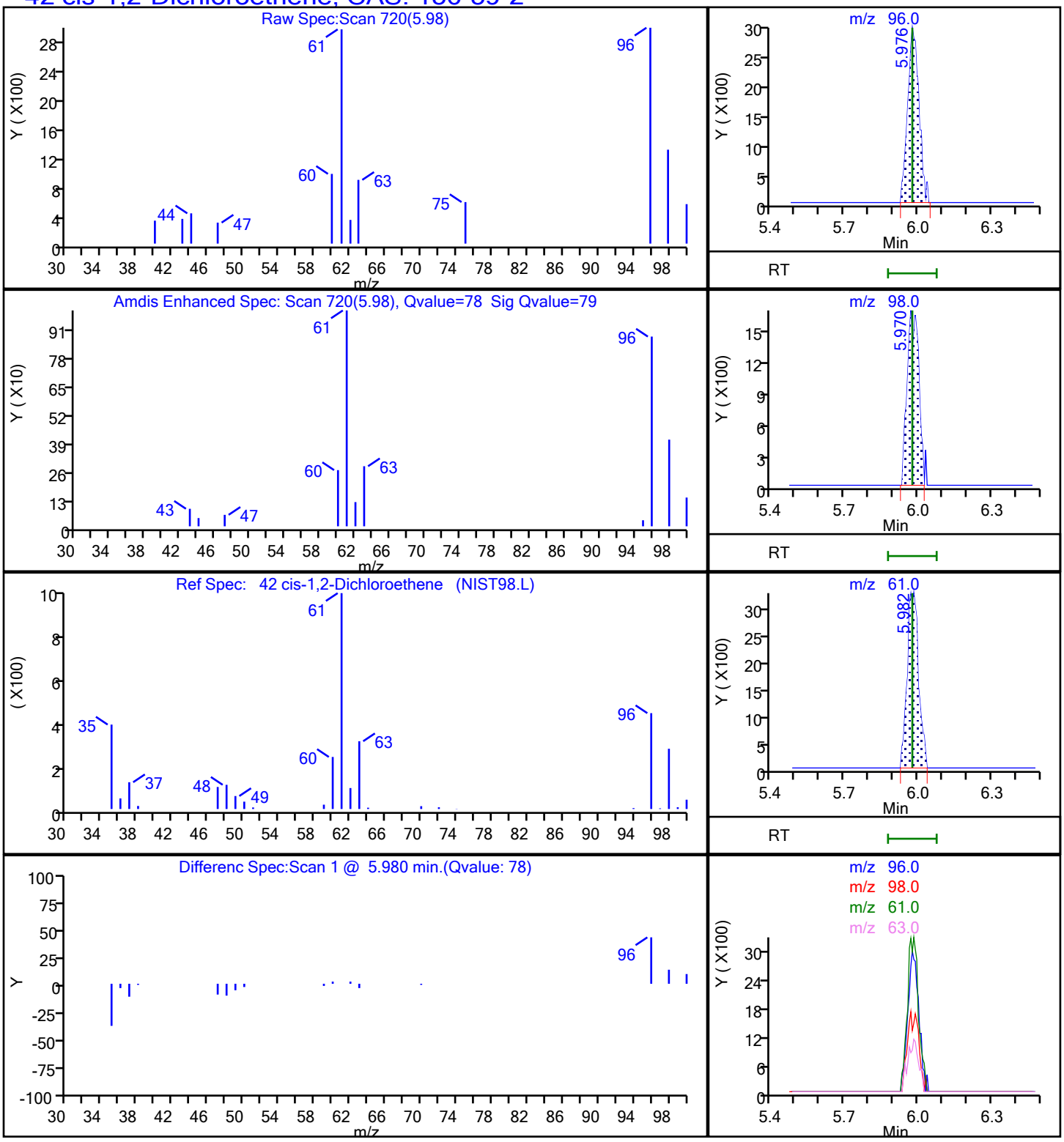
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X09.D				
Injection Date:	06-Nov-2022 14:09:30	Instrument ID:	16334		
Lims ID:	410-103501-A-3	Lab Sample ID:	410-103501-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

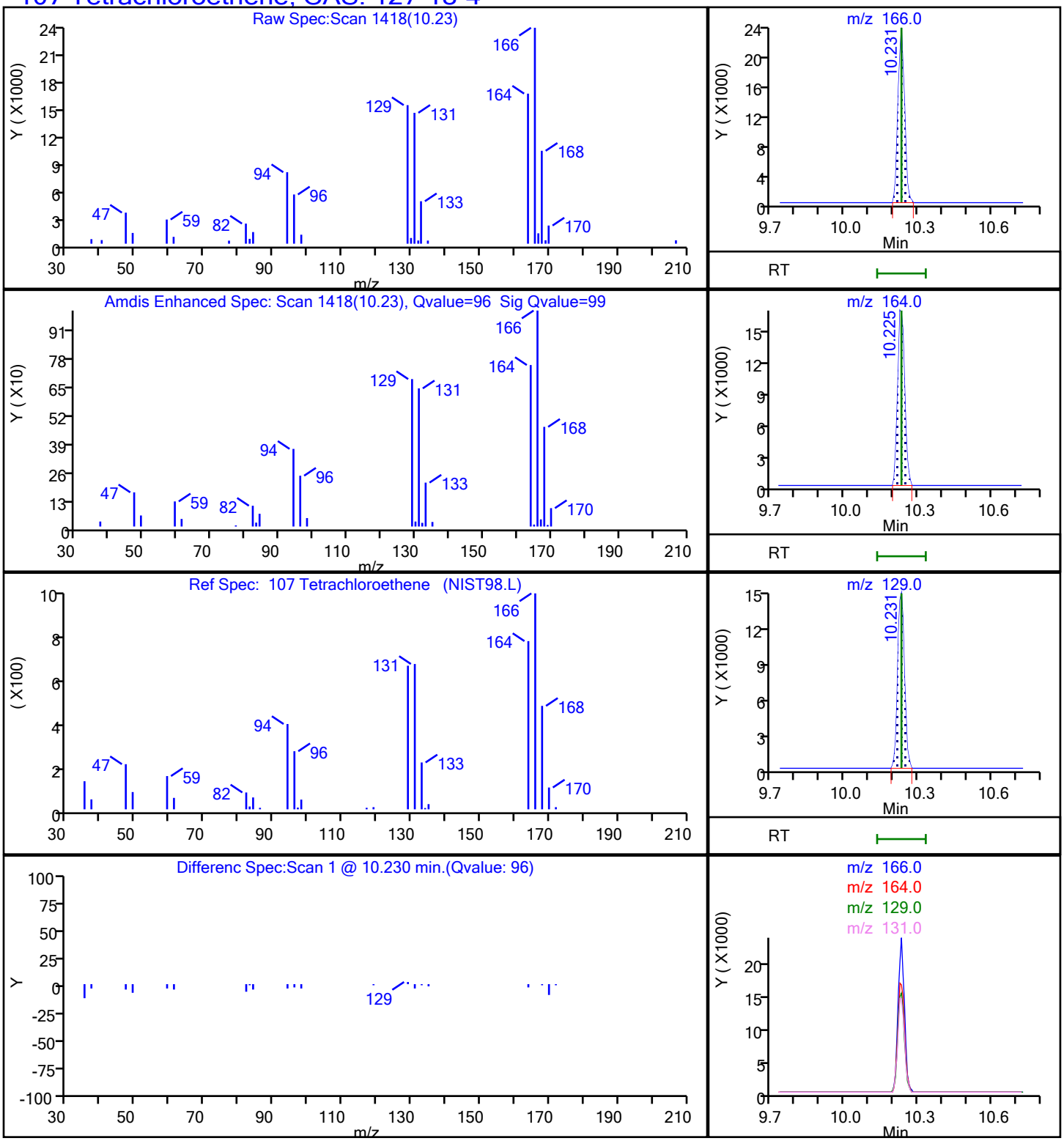
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X09.D				
Injection Date:	06-Nov-2022 14:09:30	Instrument ID:	16334		
Lims ID:	410-103501-A-3	Lab Sample ID:	410-103501-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

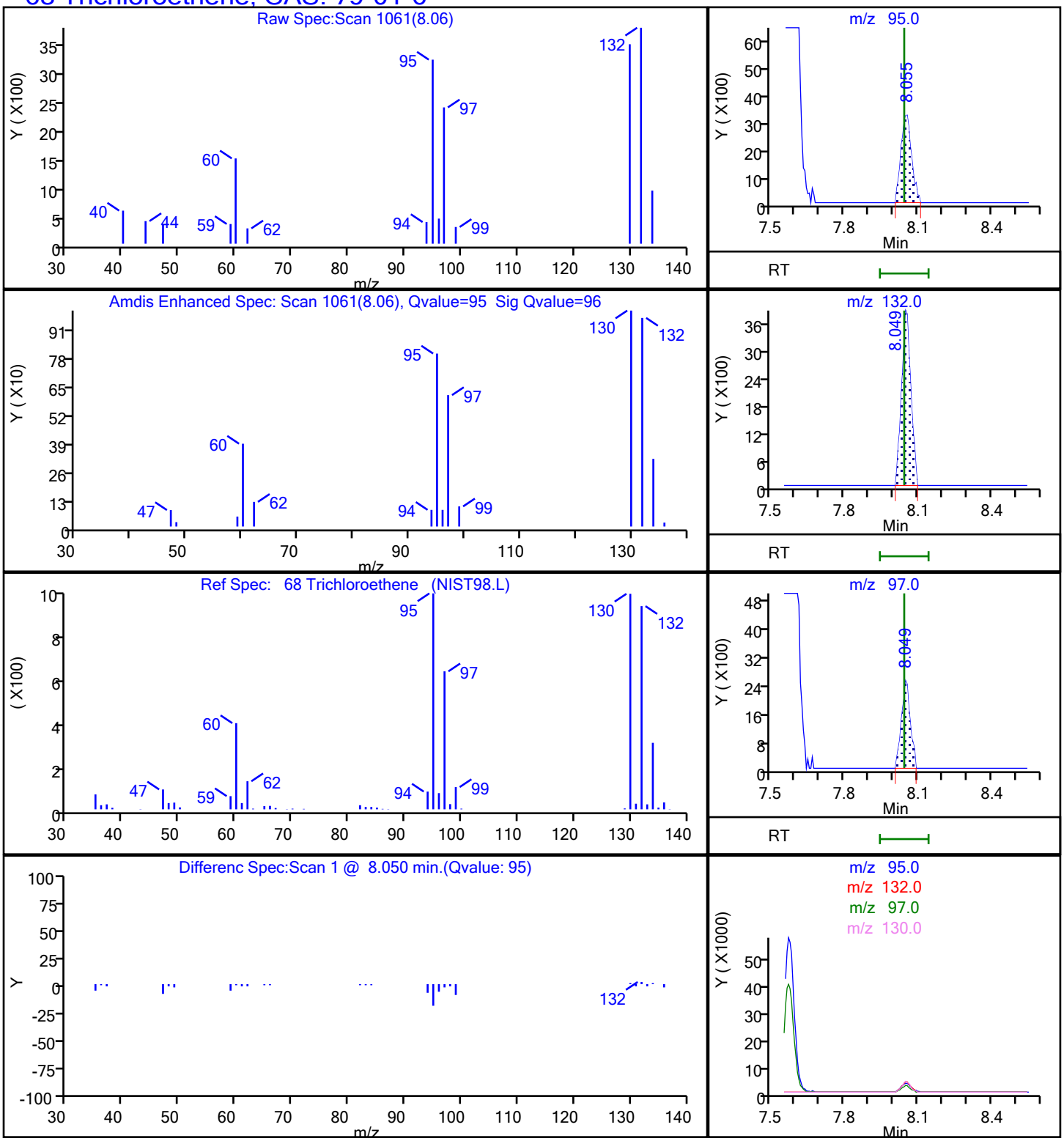
107 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X09.D				
Injection Date:	06-Nov-2022 14:09:30	Instrument ID:	16334		
Lims ID:	410-103501-A-3	Lab Sample ID:	410-103501-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-9-0/1-0 Lab Sample ID: 410-103501-4

Matrix: Water Lab File ID: GN06X10.D

Analysis Method: 8260D Date Collected: 10/27/2022 12:40

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 14:31

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.7	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND	^c cn	1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND	*+	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.15	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.28	J	0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-9-0/1-0 Lab Sample ID: 410-103501-4

Matrix: Water Lab File ID: GN06X10.D

Analysis Method: 8260D Date Collected: 10/27/2022 12:40

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 14:31

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		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\16334\20221106-70453.b\GN06X10.D
Lims ID: 410-103501-A-4
Client ID: HD-COD-SW-9-0/1-0
Sample Type: Client
Inject. Date: 06-Nov-2022 14:31:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070453-011
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Nov-2022 17:29:21 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

First Level Reviewer: DVW2 Date: 07-Nov-2022 17:22:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.093	2.087	0.006	95	3516	0.0710	
6 Vinyl chloride	62		2.203				ND	
9 Bromomethane	94		2.526				ND	
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96		3.422				ND	
20 Acetone	43	3.483	3.471	0.012	95	15578	2.73	
23 Carbon disulfide	76	3.715	3.708	0.007	99	5935	0.0668	
29 Methylene Chloride	84		4.062				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.141	4.135	0.006	34	112673	50.0	
33 Methyl tert-butyl ether	73		4.458				ND	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63		5.129				ND	
41 2-Butanone (MEK)	43		5.946				ND	
42 cis-1,2-Dichloroethene	96	5.976	5.976	0.000	77	6780	0.1459	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.470	6.458	0.012	90	6460	0.0873	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	94	433039	10.3	
53 1,1,1-Trichloroethane	97		6.677				ND	7
56 Carbon tetrachloride	117		6.891				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.135	7.122	0.013	63	93391	10.5	
60 Benzene	78		7.159				ND	
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.567	0.000	99	1690270	10.0	
68 Trichloroethene	95		8.043				ND	
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	7
$ 83 Toluene-d8 (Surr)	98	9.598	9.597	0.001	93	1705736	10.2	
84 Toluene	92	9.671	9.671	0.000	99	7700	0.0678	
85 trans-1,3-Dichloropropene	75		9.939				ND	
106 1,1,2-Trichloroethane	97		10.140				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.232	10.231	0.001	97	16293	0.2850	
109 2-Hexanone	43		10.366				ND	
111 Chlorodibromomethane	129		10.524				ND	
112 Ethylene Dibromide	107		10.634				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	84	1308743	10.0	
115 Chlorobenzene	112		11.097				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
116 Ethylbenzene	91		11.182				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.298				ND	7
120 o-Xylene	106		11.628				ND	7
121 Styrene	104		11.640				ND	7
122 Bromoform	173		11.798				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.073	12.066	0.007	95	597232	9.57	
127 1,1,2,2-Tetrachloroethane	83		12.176				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.951	12.944	0.007	94	766699	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

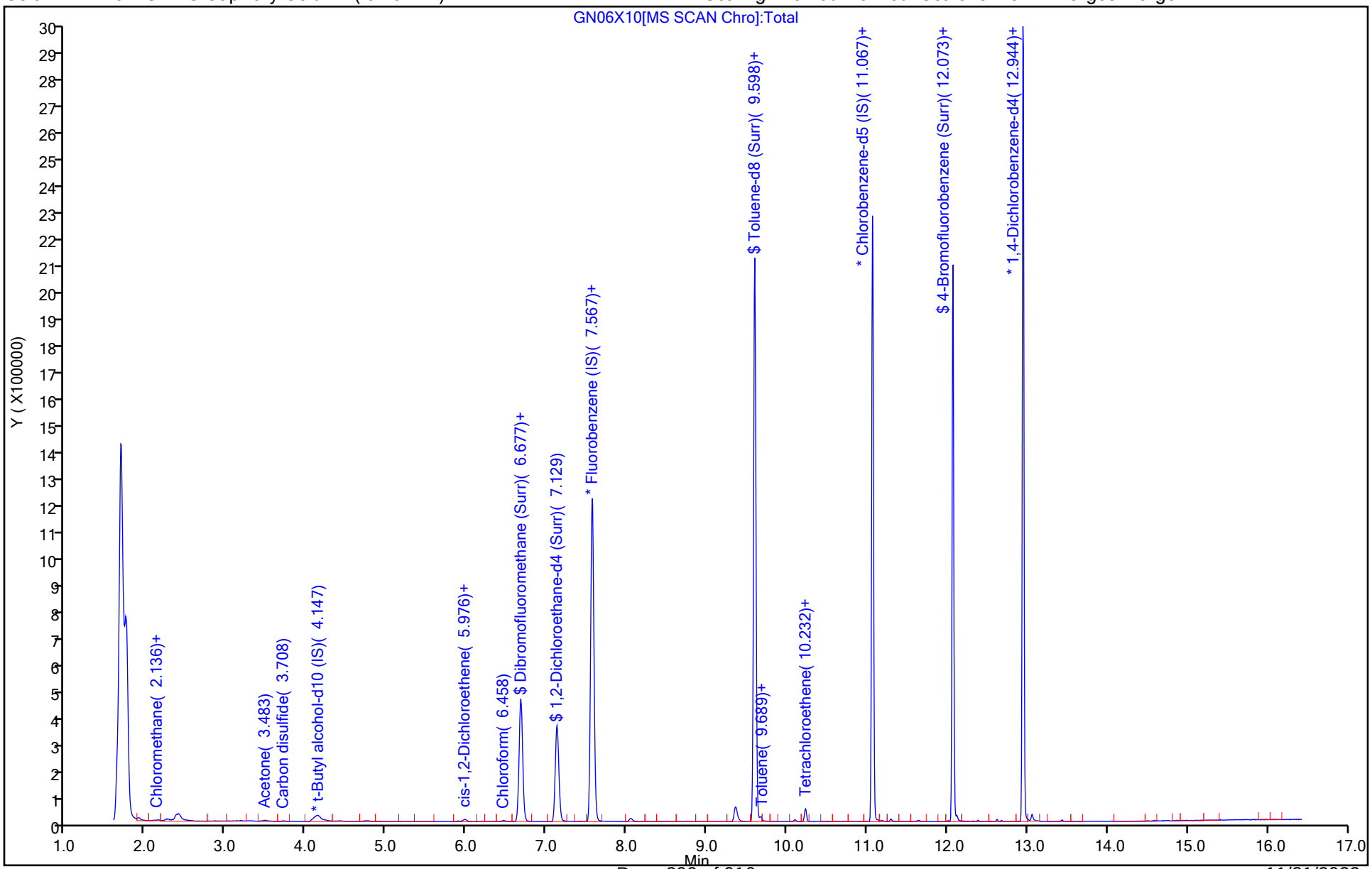
MSV_29_826ISS_00039 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 07-Nov-2022 21:10:02 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X10.D				
Injection Date:	06-Nov-2022 14:31:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-103501-A-4	Lab Sample ID:	410-103501-4	Worklist Smp#:	11
Client ID:	HD-COD-SW-9-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X10.D				
Lims ID:	410-103501-A-4				
Client ID:	HD-COD-SW-9-0/1-0				
Sample Type:	Client				
Inject. Date:	06-Nov-2022 14:31:30	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0070453-011				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Nov-2022 17:29:21	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1606				

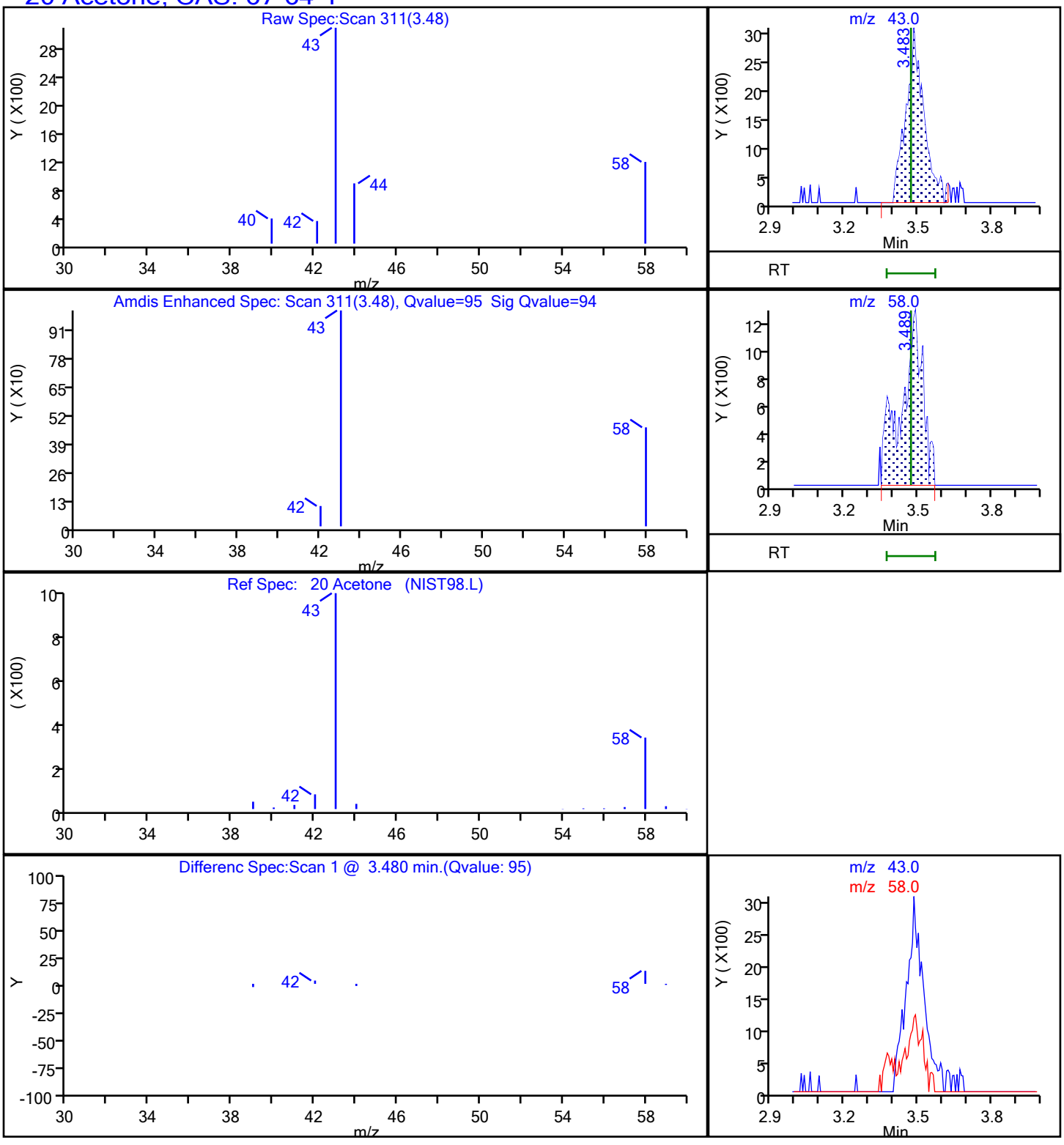
First Level Reviewer: DVW2 Date: 07-Nov-2022 17:22:03

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	103.19
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	104.79
$ 83 Toluene-d8 (Surr)	10.0	10.2	101.77
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.57	95.73

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X10.D				
Injection Date:	06-Nov-2022 14:31:30	Instrument ID:	16334		
Lims ID:	410-103501-A-4	Lab Sample ID:	410-103501-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

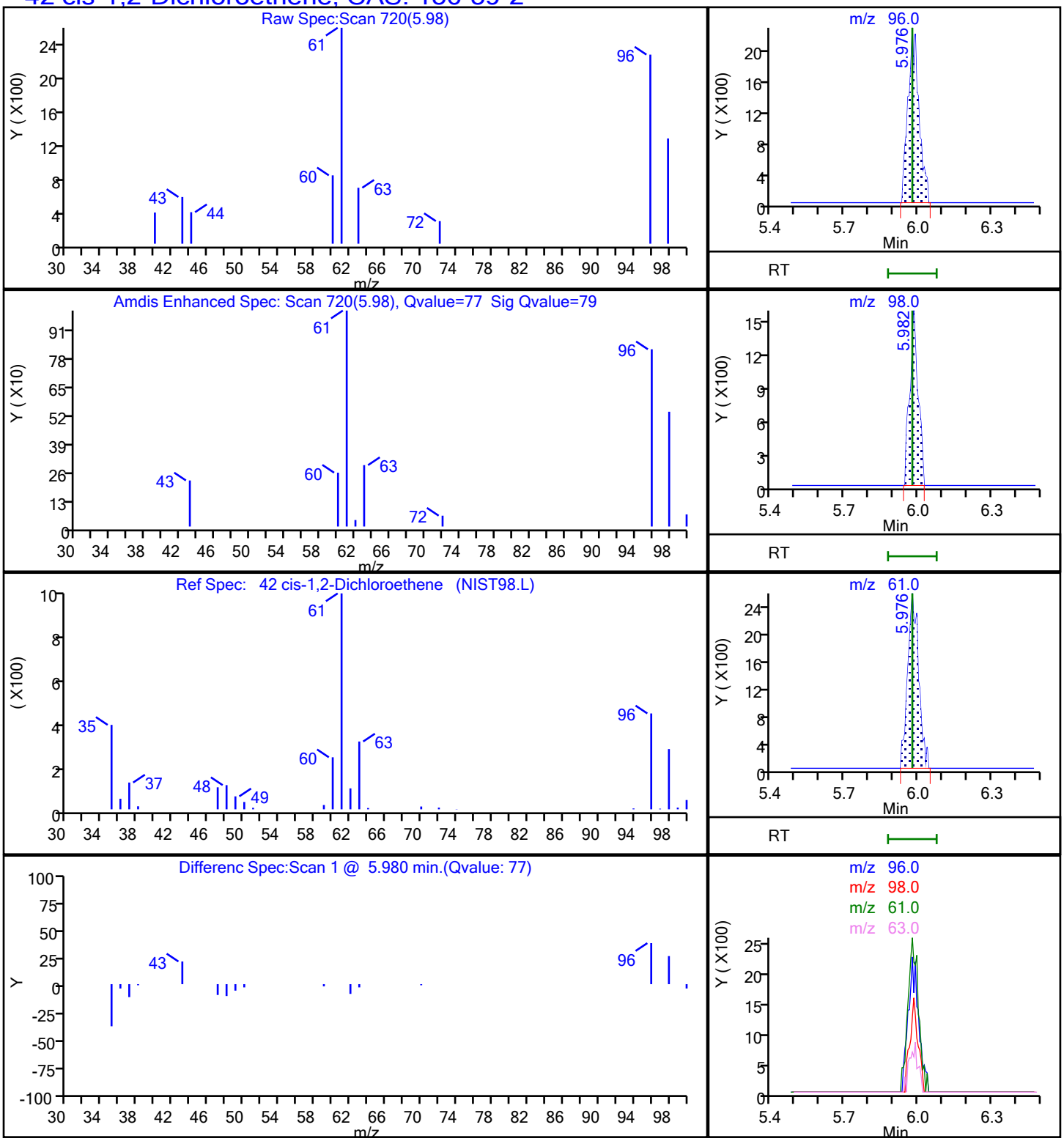
20 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X10.D				
Injection Date:	06-Nov-2022 14:31:30	Instrument ID:	16334		
Lims ID:	410-103501-A-4	Lab Sample ID:	410-103501-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

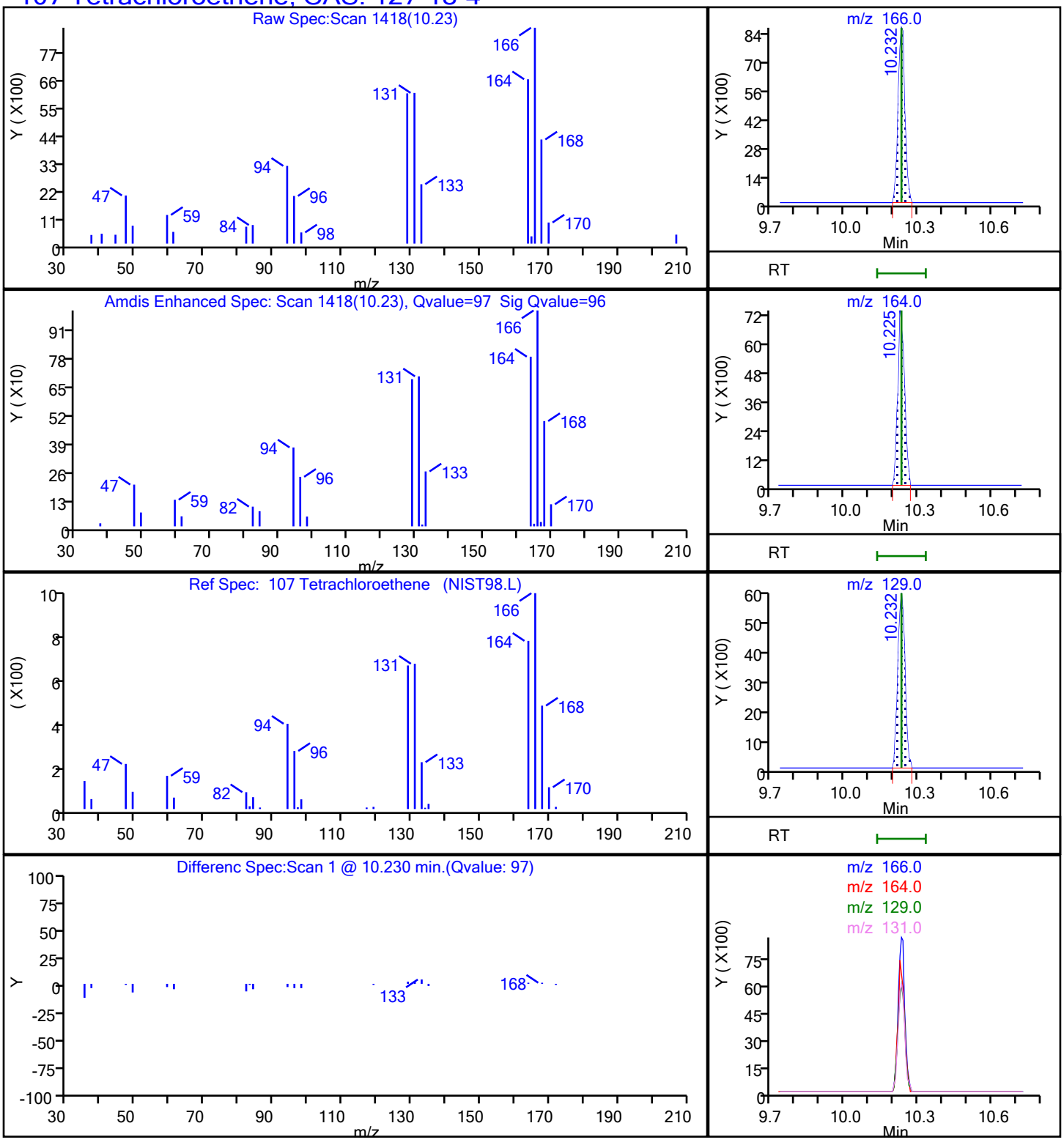
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X10.D				
Injection Date:	06-Nov-2022 14:31:30	Instrument ID:	16334		
Lims ID:	410-103501-A-4	Lab Sample ID:	410-103501-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

107 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-13-0/1-0 Lab Sample ID: 410-103501-5

Matrix: Water Lab File ID: GN06X11.D

Analysis Method: 8260D Date Collected: 10/27/2022 09:30

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 14:53

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	0.10	J	0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.6	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND	^c cn	1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND	*+	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.21	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	1.2		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-13-0/1-0 Lab Sample ID: 410-103501-5

Matrix: Water Lab File ID: GN06X11.D

Analysis Method: 8260D Date Collected: 10/27/2022 09:30

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 14:53

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.23	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X11.D
Lims ID: 410-103501-A-5
Client ID: HD-COD-SW-13-0/1-0
Sample Type: Client
Inject. Date: 06-Nov-2022 14:53:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070453-012
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Nov-2022 17:29:21 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

First Level Reviewer: DVW2 Date: 07-Nov-2022 17:22:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.087				ND	
6 Vinyl chloride	62		2.203				ND	7
9 Bromomethane	94		2.526				ND	7
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96		3.422				ND	7
20 Acetone	43	3.483	3.471	0.012	97	9850	1.55	
23 Carbon disulfide	76	3.714	3.708	0.006	58	4201	0.0464	
29 Methylene Chloride	84		4.062				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.147	4.135	0.012	34	125250	50.0	
33 Methyl tert-butyl ether	73		4.458				ND	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63		5.129				ND	
41 2-Butanone (MEK)	43		5.946				ND	
42 cis-1,2-Dichloroethene	96	5.982	5.976	0.006	77	10172	0.2148	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.470	6.458	0.012	85	4215	0.0559	a
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	94	443727	10.4	
53 1,1,1-Trichloroethane	97	6.683	6.677	0.006	35	6587	0.1001	
56 Carbon tetrachloride	117		6.891				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.134	7.122	0.012	63	96709	10.6	
60 Benzene	78		7.159				ND	
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.567	0.000	99	1722341	10.0	
68 Trichloroethene	95	8.055	8.043	0.012	96	11201	0.2326	a
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	
$ 83 Toluene-d8 (Surr)	98	9.597	9.597	0.000	93	1729491	10.1	
84 Toluene	92	9.670	9.671	-0.001	98	6236	0.0536	
85 trans-1,3-Dichloropropene	75		9.939				ND	
106 1,1,2-Trichloroethane	97		10.140				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.231	10.231	0.000	98	67811	1.16	
109 2-Hexanone	43		10.366				ND	
111 Chlorodibromomethane	129		10.524				ND	
112 Ethylene Dibromide	107		10.634				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	84	1340965	10.0	
115 Chlorobenzene	112		11.097				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
116 Ethylbenzene	91		11.182				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.298				ND	7
120 o-Xylene	106		11.628				ND	7
121 Styrene	104		11.640				ND	
122 Bromoform	173		11.798				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.072	12.066	0.006	94	612500	9.58	
127 1,1,2,2-Tetrachloroethane	83		12.176				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.950	12.944	0.006	93	789312	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

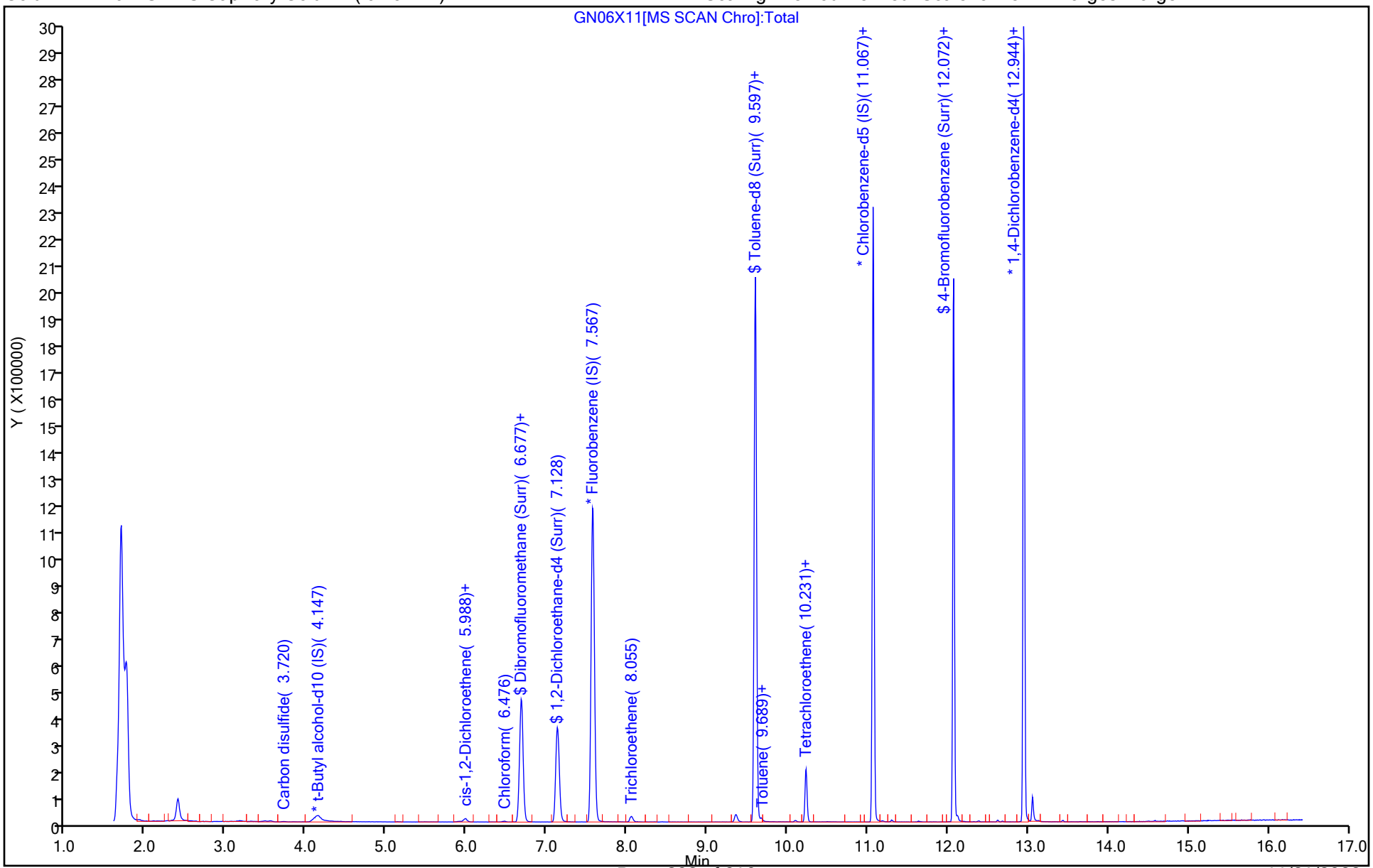
MSV_29_826ISS_00039 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 07-Nov-2022 21:10:04 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X11.D				
Injection Date:	06-Nov-2022 14:53:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-103501-A-5	Lab Sample ID:	410-103501-5	Worklist Smp#:	12
Client ID:	HD-COD-SW-13-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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12:36 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X11.D				
Lims ID:	410-103501-A-5				
Client ID:	HD-COD-SW-13-0/1-0				
Sample Type:	Client				
Inject. Date:	06-Nov-2022 14:53:30	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0070453-012				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Nov-2022 17:29:21	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1606				

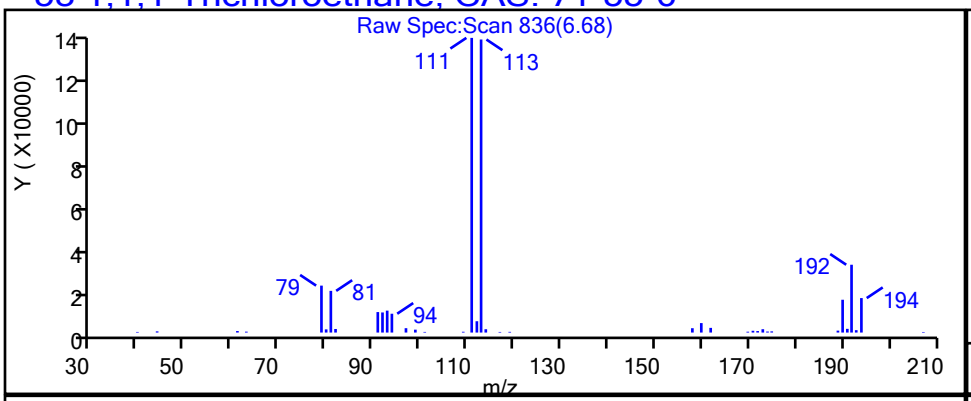
First Level Reviewer: DVW2 Date: 07-Nov-2022 17:22:53

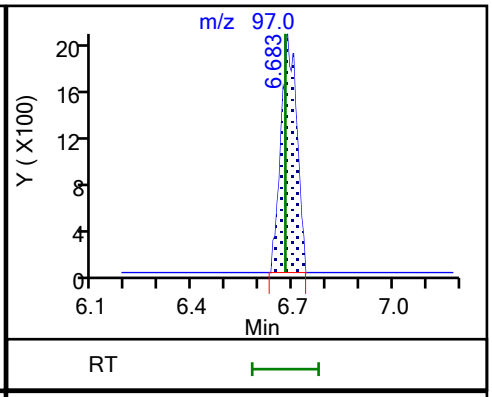
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.4	103.77
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	106.49
$ 83 Toluene-d8 (Surr)	10.0	10.1	100.71
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.58	95.82

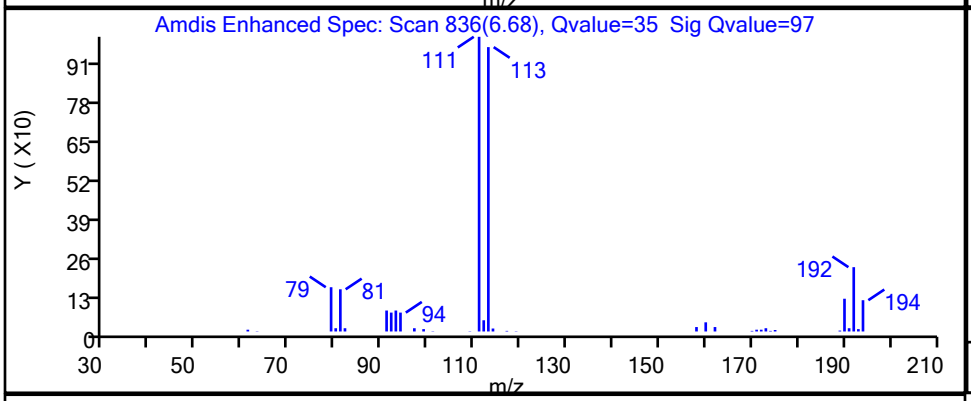
Eurofins Lancaster Laboratories Environment Testing, LLC

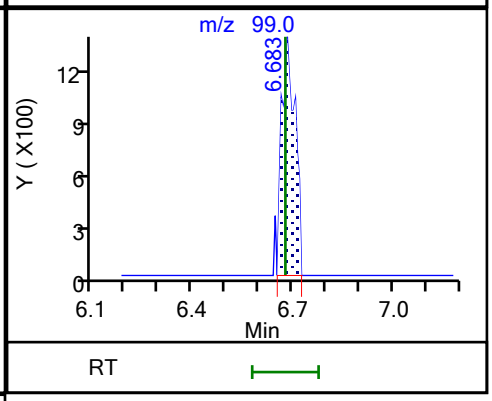
Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X11.D				
Injection Date:	06-Nov-2022 14:53:30	Instrument ID:	16334		
Lims ID:	410-103501-A-5	Lab Sample ID:	410-103501-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

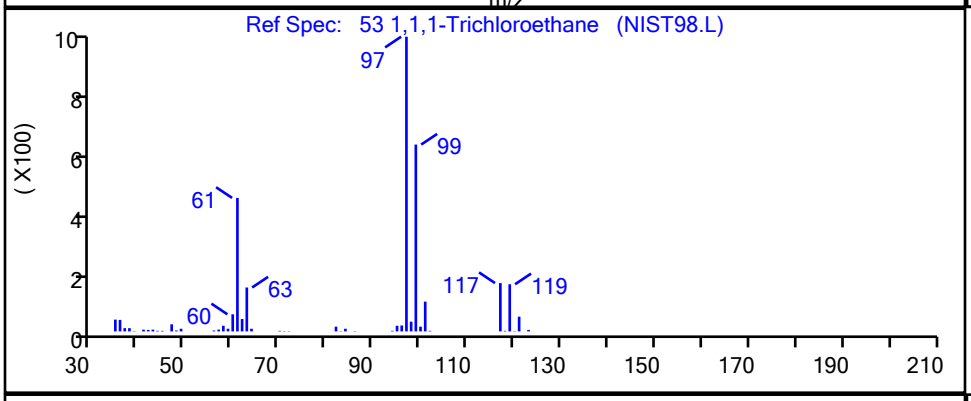
53 1,1,1-Trichloroethane, CAS: 71-55-6

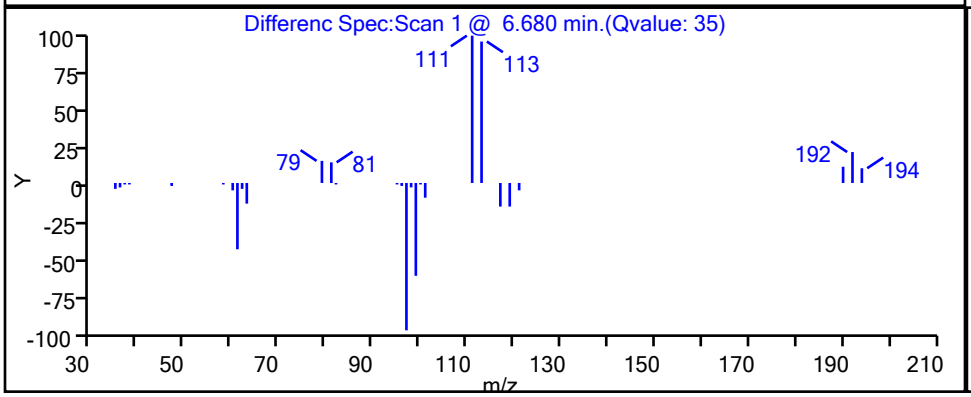


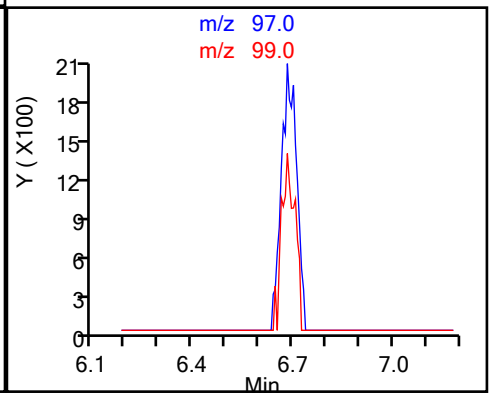








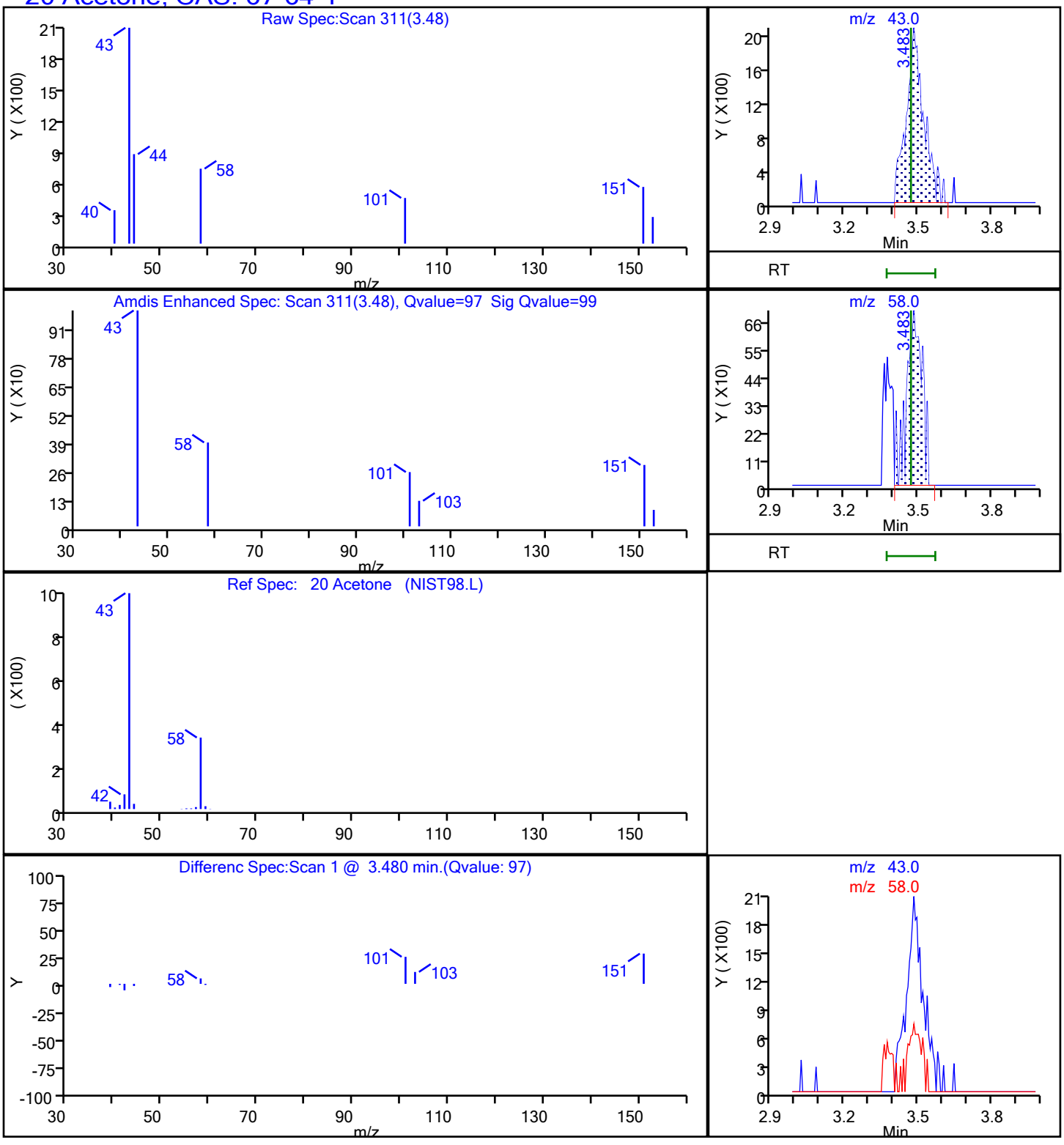




Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X11.D				
Injection Date:	06-Nov-2022 14:53:30	Instrument ID:	16334		
Lims ID:	410-103501-A-5	Lab Sample ID:	410-103501-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Acetone, CAS: 67-64-1

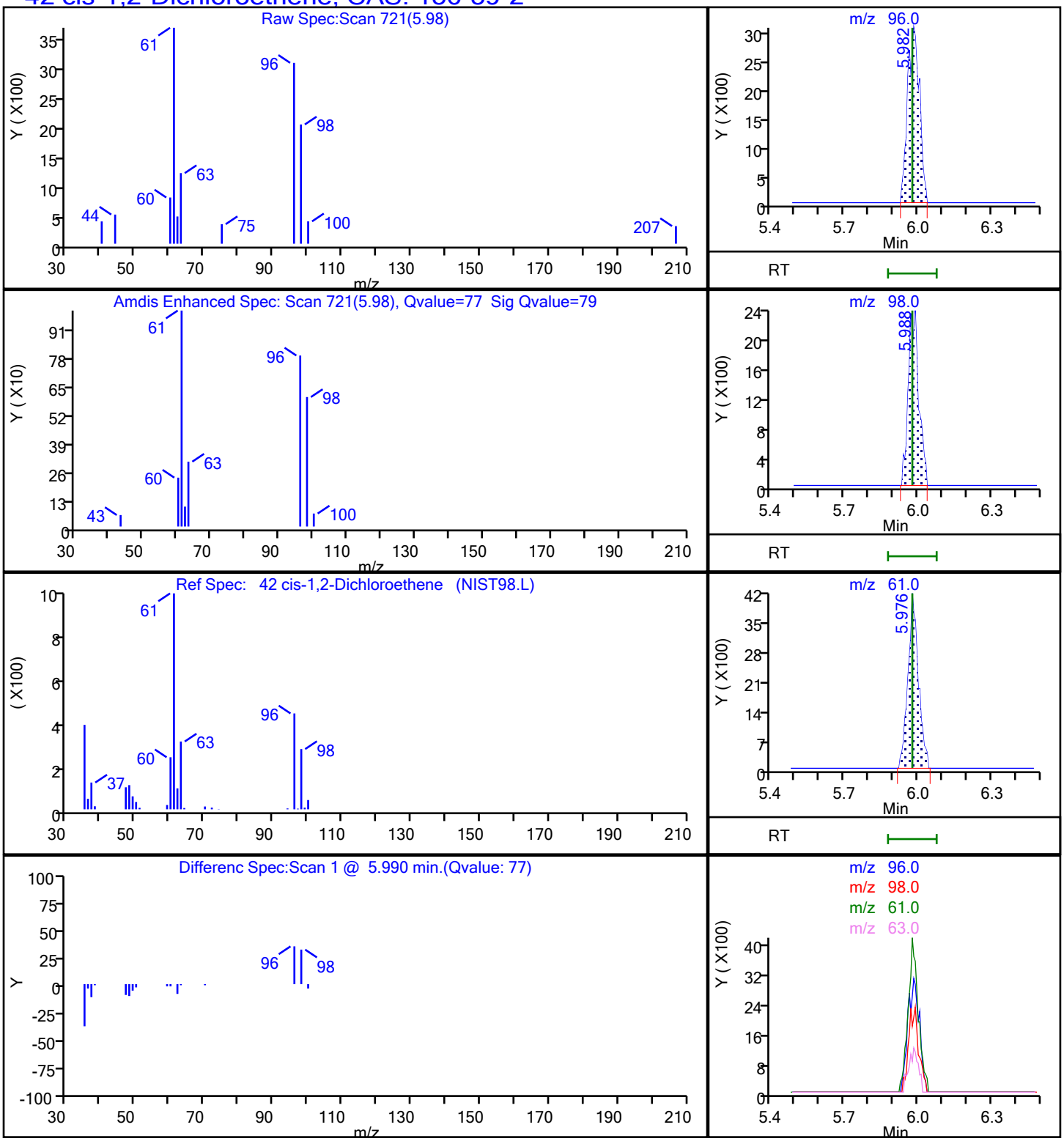


Report Date: 07-Nov-2022 21:10:05 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X11.D				
Injection Date:	06-Nov-2022 14:53:30	Instrument ID:	16334		
Lims ID:	410-103501-A-5	Lab Sample ID:	410-103501-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

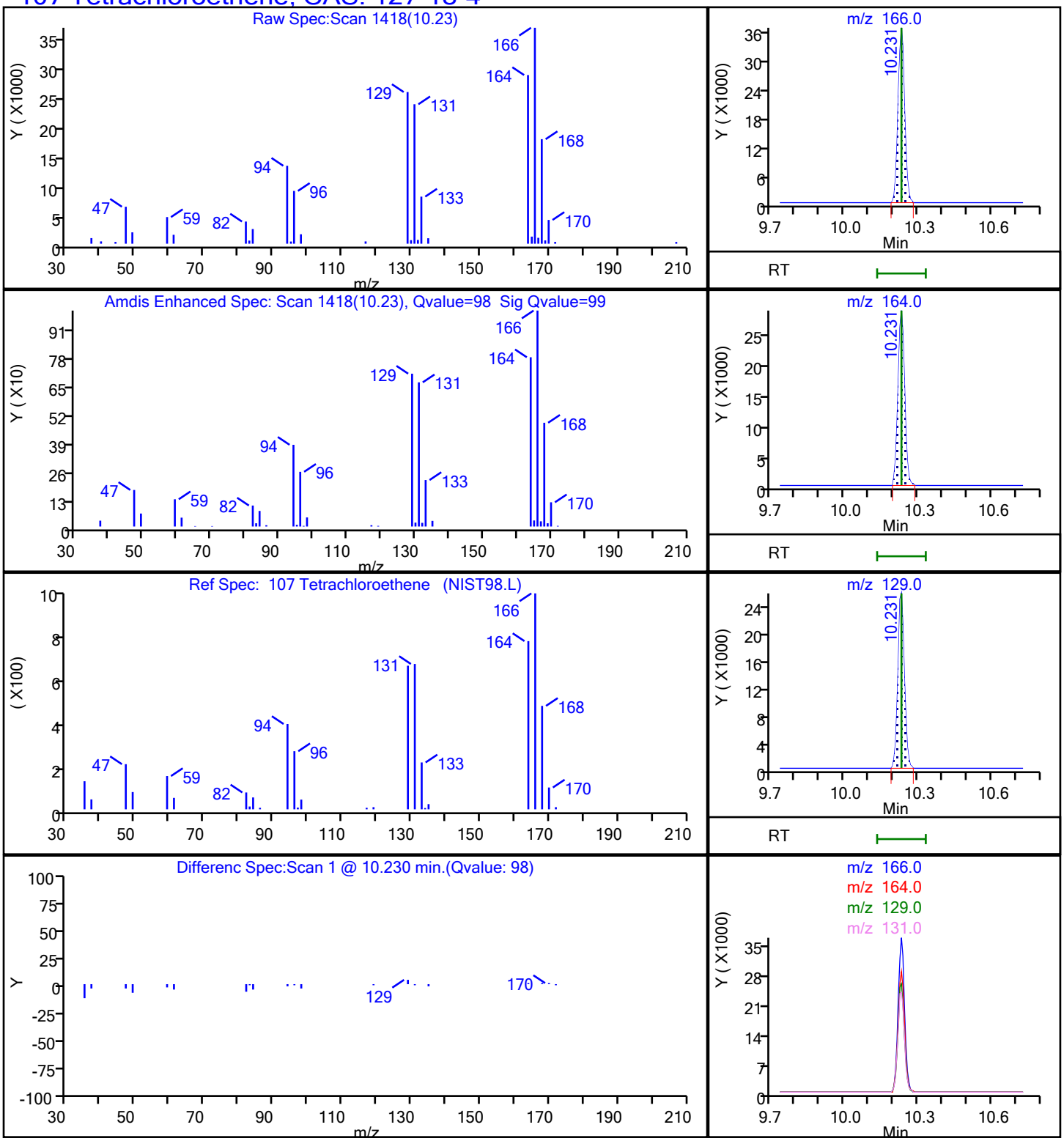


11/21/2022
12:36 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X11.D				
Injection Date:	06-Nov-2022 14:53:30	Instrument ID:	16334		
Lims ID:	410-103501-A-5	Lab Sample ID:	410-103501-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

107 Tetrachloroethene, CAS: 127-18-4

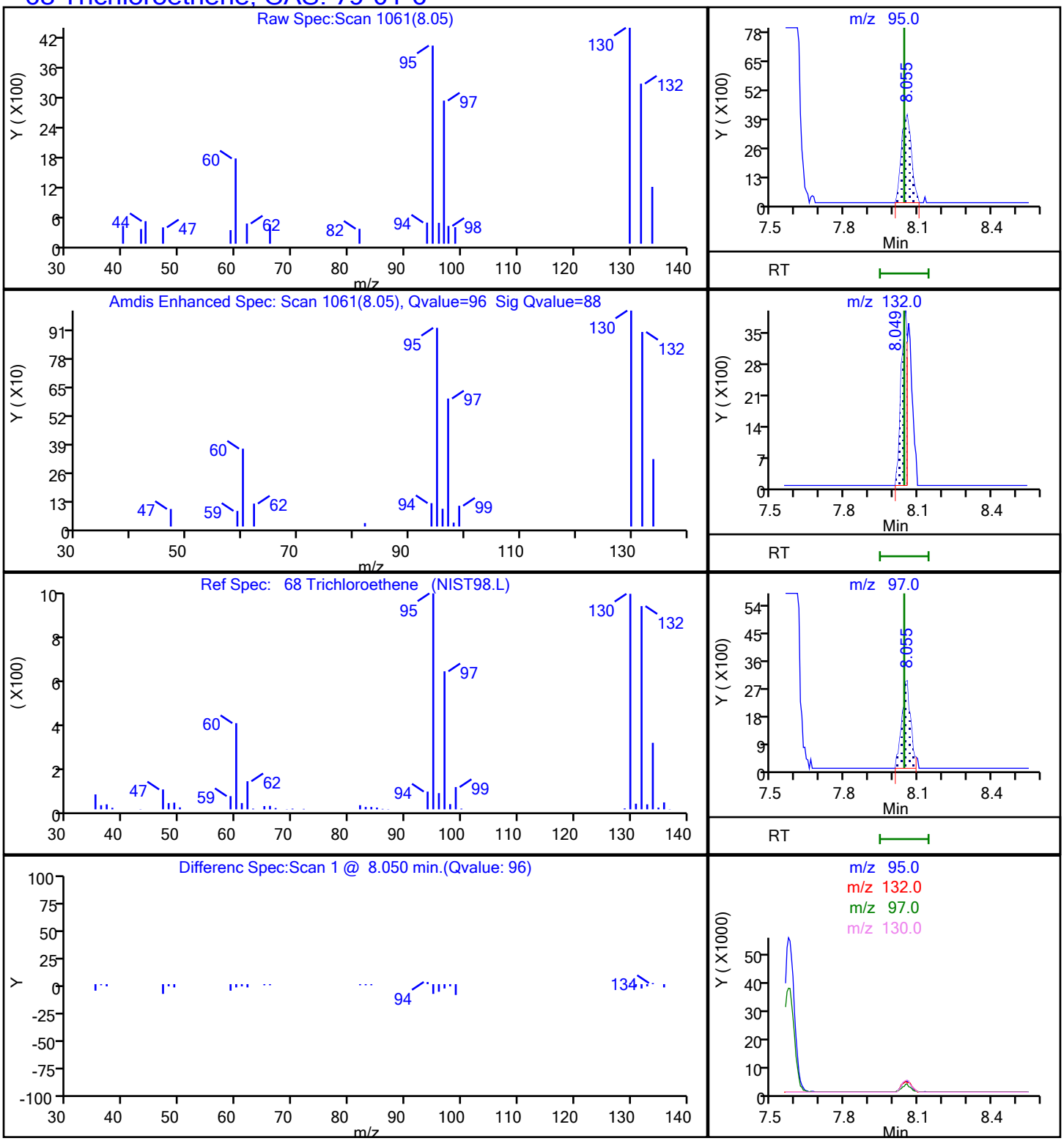


Report Date: 07-Nov-2022 21:10:05 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X11.D				
Injection Date:	06-Nov-2022 14:53:30	Instrument ID:	16334		
Lims ID:	410-103501-A-5	Lab Sample ID:	410-103501-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



11/21/2022
12:36 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

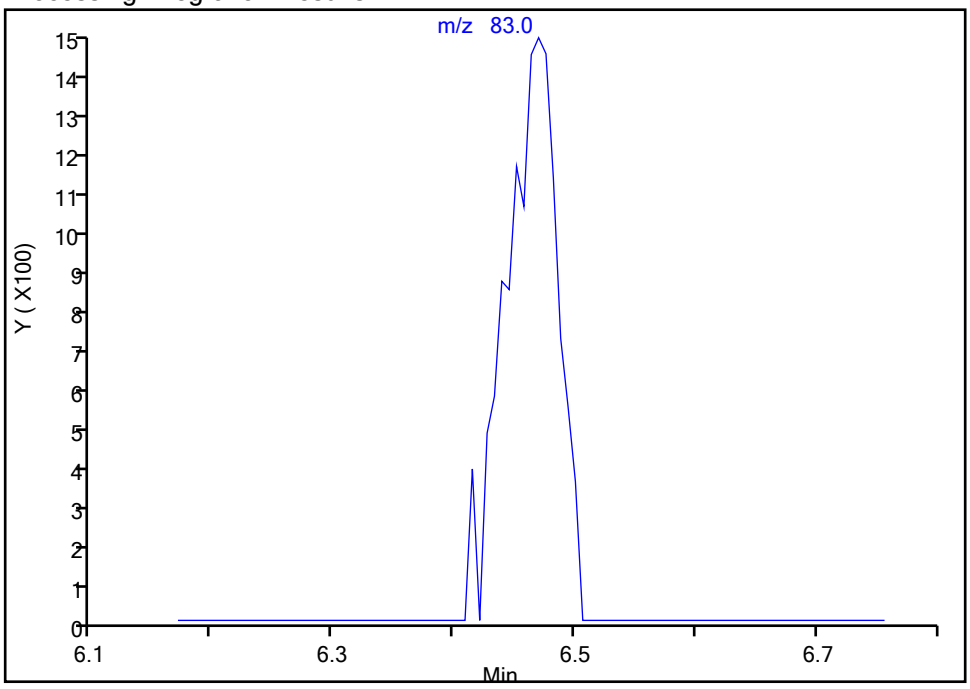
Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X11.D				
Injection Date:	06-Nov-2022 14:53:30	Instrument ID:	16334		
Lims ID:	410-103501-A-5	Lab Sample ID:	410-103501-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

51 Chloroform, CAS: 67-66-3

Signal: 1

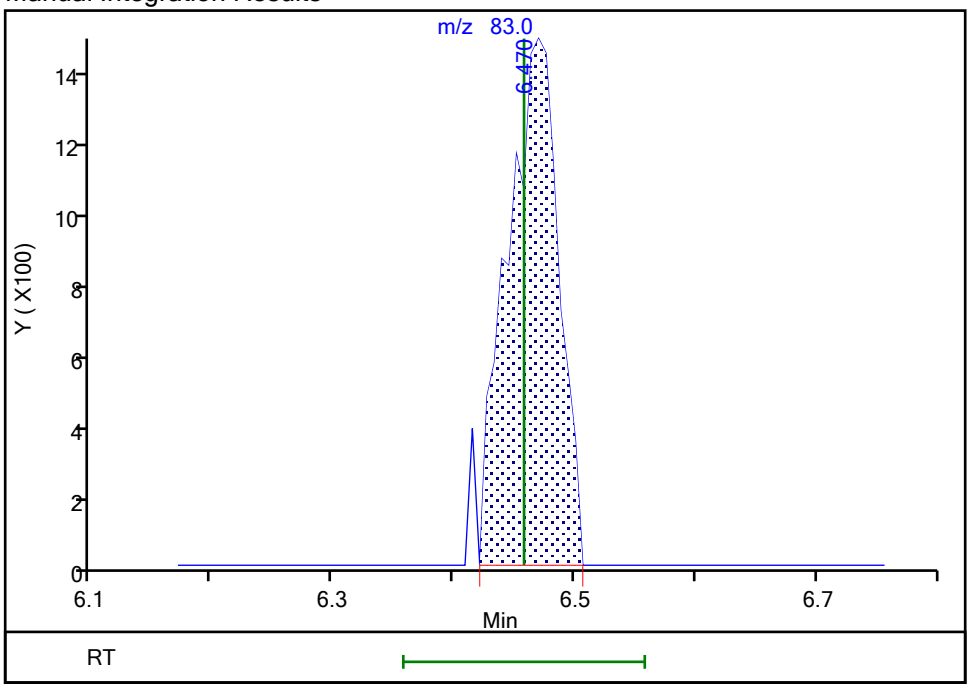
Not Detected
Expected RT: 6.46

Processing Integration Results



Manual Integration Results

RT: 6.47
Area: 4215
Amount: 0.055872
Amount Units: ug/l



Reviewer: DVW2, 07-Nov-2022 17:22:31
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

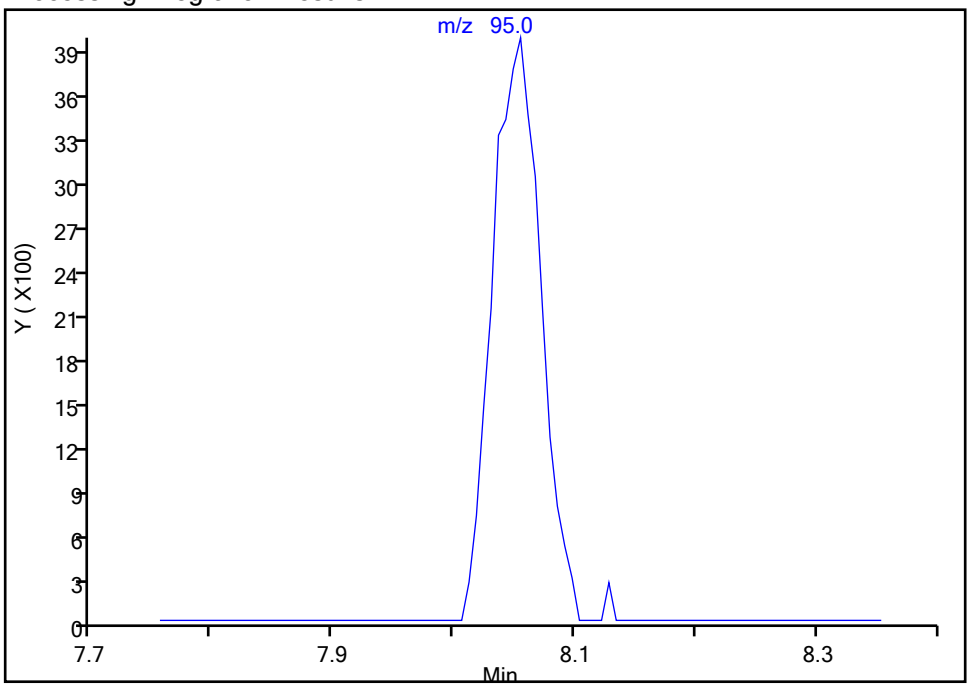
Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X11.D				
Injection Date:	06-Nov-2022 14:53:30	Instrument ID:	16334		
Lims ID:	410-103501-A-5	Lab Sample ID:	410-103501-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6

Signal: 1

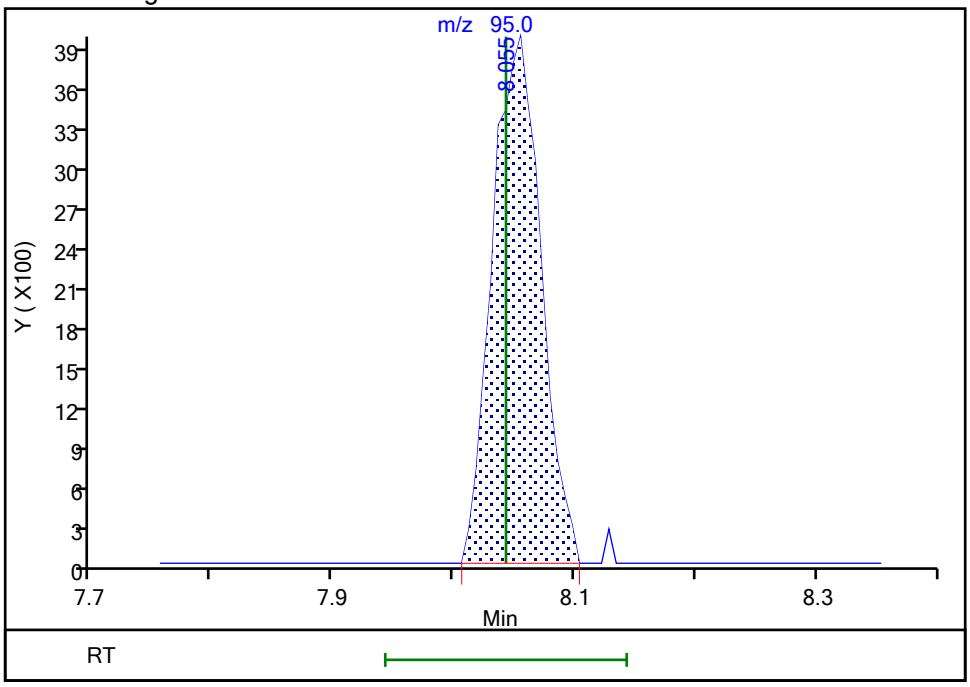
Not Detected
Expected RT: 8.04

Processing Integration Results



Manual Integration Results

RT: 8.05
Area: 11201
Amount: 0.232629
Amount Units: ug/l



Reviewer: DVW2, 07-Nov-2022 17:22:41
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 Lab Sample ID: 410-103501-6

Matrix: Water Lab File ID: GN06X12.D

Analysis Method: 8260D Date Collected: 10/27/2022 11:25

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 15:15

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	0.40	J	0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	0.15	J	0.50	0.10
75-35-4	1,1-Dichloroethene	0.18	J	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND	^c cn	1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND	FH *+	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.35	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	2.3		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	5.5		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 Lab Sample ID: 410-103501-6

Matrix: Water Lab File ID: GN06X12.D

Analysis Method: 8260D Date Collected: 10/27/2022 11:25

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 15:15

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	1.6		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X12.D
Lims ID: 410-103501-A-6
Client ID: HD-COD-SW-15-0/1-0
Sample Type: Client
Inject. Date: 06-Nov-2022 15:15:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070453-013
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Nov-2022 17:29:21 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

First Level Reviewer: DVW2 Date: 07-Nov-2022 17:27:42

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	1 Chlorotrifluoroethene	116		1.867				ND	
	2 Dichlorodifluoromethane	85		1.898				ND	
	3 Chlorodifluoromethane	51		1.916				ND	7
	4 Dimethyl ether	45		1.983				ND	
	5 Chloromethane	50		2.087				ND	
	6 Vinyl chloride	62		2.203				ND	
	7 Butadiene	39		2.215				ND	7
	8 2-Chloro-1,1,1-Trifluoroethane	118		2.294				ND	
	9 Bromomethane	94		2.526				ND	
	10 Chloroethane	64		2.605				ND	
	11 Dichlorofluoromethane	67		2.837				ND	7
	12 Trichlorofluoromethane	101		2.898				ND	
	13 Ethyl ether	59		3.129				ND	
	14 Ethanol	45	3.160	3.190	-0.030	1	239	NC	
T	15 Ethanol TIC	45		3.190				ND	7
	16 1,2-Dichloro-1,1,2-trifluoroetha	67		3.233				ND	
	17 Acrolein	56		3.300				ND	7
	18 1,1-Dichloroethene	96	3.422	3.422	0.000	95	6544	0.1828	
	19 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.471				ND	
	20 Acetone	43	3.495	3.471	0.024	26	4473	0.7322	
	21 Iodomethane	142		3.611				ND	
	22 Ethyl bromide	108		3.635				ND	
	24 Isopropyl alcohol	45		3.702				ND	
	23 Carbon disulfide	76		3.708				ND	7
	25 Methyl acetate	43		3.861				ND	
	26 Acetonitrile	41		3.873				ND	
	27 3-Chloro-1-propene	41		3.885				ND	
T	28 Acetonitrile TIC	41		3.961				ND	
	29 Methylene Chloride	84		4.062				ND	
*	30 t-Butyl alcohol-d10 (IS)	65	4.135	4.135	0.000	35	120503	50.0	
	31 2-Methyl-2-propanol	59		4.245				ND	
	32 Acrylonitrile	53		4.403				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73	4.464	4.458	0.006	81	4616	0.0452	
34 trans-1,2-Dichloroethene	96		4.464				ND	
35 Hexane	57		4.891				ND	
36 Vinyl acetate	43		5.123				ND	
37 1,1-Dichloroethane	63	5.129	5.129	0.000	91	10237	0.1507	a
38 Isopropyl ether	45		5.196				ND	
39 2-Chloro-1,3-butadiene	53		5.245				ND	
40 Tert-butyl ethyl ether	59		5.738				ND	7
41 2-Butanone (MEK)	43		5.946				ND	
42 cis-1,2-Dichloroethene	96	5.976	5.976	0.000	77	105590	2.31	
43 2,2-Dichloropropane	77		5.988				ND	
44 Ethyl acetate	43		6.007				ND	
45 Propionitrile	54		6.037				ND	
46 Methyl acrylate	55		6.141				ND	
S 47 1,2-Dichloroethene, Total	100				0		2.31	
48 Methacrylonitrile	67		6.244				ND	
49 Chlorobromomethane	128		6.299				ND	
50 Tetrahydrofuran	71		6.311				ND	
51 Chloroform	83	6.464	6.458	0.006	92	25781	0.3541	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	94	426466	10.3	
53 1,1,1-Trichloroethane	97	6.683	6.677	0.006	38	25553	0.4023	
54 Cyclohexane	56		6.775				ND	
56 Carbon tetrachloride	117	6.891	6.891	0.000	86	1975	0.0361	M
57 1,1-Dichloropropene	75		6.891				ND	
55 1-Chlorobutane	56		6.940				ND	
58 Isobutyl alcohol	41		7.086				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.122	0.006	63	91790	10.5	
60 Benzene	78		7.159				ND	
61 1,2-Dichloroethane	62		7.226				ND	
62 Isopropyl acetate	43		7.244				ND	
63 Tert-amyl methyl ether	73		7.354				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.567	0.000	99	1662014	10.0	
65 n-Heptane	43		7.580				ND	
66 t-Amyl alcohol	73		7.842				ND	
67 n-Butanol	56		7.976				ND	
68 Trichloroethene	95	8.049	8.043	0.006	97	76490	1.65	
69 Methylcyclohexane	83		8.354				ND	
70 1,2-Dichloropropane	63		8.378				ND	
71 2-ethoxy-2-methyl butane	87		8.390				ND	
72 Methyl methacrylate	69		8.470				ND	
73 Dibromomethane	93		8.488				ND	
74 1,4-Dioxane	88		8.506				ND	
75 n-Propyl acetate	61		8.549				ND	
76 Dichlorobromomethane	83		8.726				ND	
77 2-Nitropropane	41		9.006				ND	
78 2-Chloroethyl vinyl ether	63		9.098				ND	
79 1-Bromo-2-chloroethane	63		9.116				ND	
80 Chloroacetonitrile	75		9.189				ND	U
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	
$ 83 Toluene-d8 (Surr)	98	9.597	9.597	0.000	93	1668101	10.1	
84 Toluene	92	9.671	9.671	0.000	92	3961	0.0355	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75		9.939				ND	
104 Ethyl methacrylate	69		10.000				ND	
T 208 Methyl acrylate TIC	55		10.000				ND	U
T 88 Octamethylcyclotetrasiloxane TIC	281		10.000				ND	U
T 93 2-Chloroethanol TIC	44		10.000				ND	
T 103 Vinyl acetate (TIC)	43		10.000				ND	U
T 91 Decamethylcyclopentasiloxane TIC	73		10.000				ND	U
T 92 Ethylene oxide TIC	44		10.000				ND	
T 89 Epibromohydrin TIC	57		10.000				ND	U
T 87 2,3-Dibromo-1-propanol TIC	57		10.000				ND	
T 90 2-Bromo-3-chloropropene TIC	75		10.000				ND	U
T 97 Isopropyl alcohol TIC	45		10.000				ND	U
T 100 2,3-Dibromopropene TIC	119	10.232	10.000	0.232	1	2405	0.0145	
T 95 Chloroacetaldehyde TIC	50		10.000				ND	U
T 86 3-Chloro-1,2-propanediol TIC	44		10.000				ND	U
T 98 2-Bromoethanol TIC	45		10.000				ND	U
T 99 Epichlorohydrin TIC	57		10.000				ND	
T 94 Nitrobenzene TIC	77		10.000				ND	U
T 101 Vinyl bromide TIC	106		10.000				ND	U
T 102 Hexachloroethane TIC	117		10.000				ND	U
T 96 Monochloroacetic acid TIC	50		10.000				ND	
S 105 1,3-Dichloropropene, Total	100		10.060				ND	7
106 1,1,2-Trichloroethane	97		10.140				ND	
107 Tetrachloroethene	166	10.232	10.231	0.001	97	307938	5.48	
108 1,3-Dichloropropane	76		10.305				ND	
109 2-Hexanone	43		10.366				ND	
110 n-Butyl acetate	43		10.487				ND	
111 Chlorodibromomethane	129		10.524				ND	
112 Ethylene Dibromide	107		10.634				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	84	1286117	10.0	
114 1-Chlorohexane	91		11.079				ND	7
115 Chlorobenzene	112		11.097				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
116 Ethylbenzene	91		11.182				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.298				ND	7
120 o-Xylene	106		11.628				ND	7
121 Styrene	104		11.640				ND	
122 Bromoform	173		11.798				ND	
123 Isopropylbenzene	105		11.926				ND	
124 cis-1,4-Dichloro-2-butene	88		11.987				ND	
125 Cyclohexanone	55		12.018				ND	7
$ 126 4-Bromofluorobenzene (Surr)	95	12.073	12.066	0.007	95	584827	9.54	
127 1,1,2,2-Tetrachloroethane	83		12.176				ND	
128 Bromobenzene	156		12.182				ND	
129 trans-1,4-Dichloro-2-butene	53		12.201				ND	
130 1,2,3-Trichloropropane	110		12.219				ND	
131 N-Propylbenzene	91		12.255				ND	
132 2-Chlorotoluene	126		12.329				ND	
133 1,3,5-Trimethylbenzene	105		12.390				ND	
134 4-Chlorotoluene	126		12.426				ND	
135 tert-Butylbenzene	134		12.633				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
136 Pentachloroethane	167		12.664				ND	
137 1,2,4-Trimethylbenzene	105		12.676				ND	7
138 sec-Butylbenzene	105		12.792				ND	
139 1,3-Dichlorobenzene	146		12.889				ND	
140 4-Isopropyltoluene	119		12.902				ND	7
* 141 1,4-Dichlorobenzene-d4	152	12.950	12.944	0.006	94	748255	10.0	
142 1,4-Dichlorobenzene	146		12.963				ND	
143 1,2,3-Trimethylbenzene	120		12.975				ND	7
144 Benzyl chloride	126		13.042				ND	
145 p-Diethylbenzene	119		13.103				ND	
146 n-Butylbenzene	92		13.188				ND	
147 1,2-Dichlorobenzene	146		13.225				ND	
148 Hexachloroethane	201		13.499				ND	
149 1,2-Dibromo-3-Chloropropane	155		13.761				ND	
150 1,3,5-Trichlorobenzene	180		13.883				ND	
151 1,2,4-Trichlorobenzene	180		14.304				ND	
152 Hexachlorobutadiene	225		14.389				ND	
153 Naphthalene	128		14.487				ND	7
154 1,2,3-Trichlorobenzene	180		14.627				ND	
155 2-Methylnaphthalene	142		15.230				ND	
156 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
164 2-Bromo-1-chloropropane	1		0.000				ND	
165 Dodecane	57		0.000				ND	
207 1,1,2-Trifluoroethane TIC	1		0.000				ND	
157 1,1-Dichloroacetone	1		0.000				ND	
158 tert-Butyl Formate	1		0.000				ND	
159 Methylal	1		0.000				ND	
160 n-Decane	57		0.000				ND	
161 Propene oxide	1		0.000				ND	
162 1-Bromo-3-Chloropropane	1		0.000				ND	
163 1-Chloropropane	1		0.000				ND	
200 Ethyl ether TIC	1		0.000				ND	
201 Freon 115 TIC	1		0.000				ND	
202 Fluoromethane TIC	1		0.000				ND	
203 1,1,1-Trifluoro-2,2-dichloroetha	1		0.000				ND	
204 1,2-Dichlorofluoroethane TIC	1		0.000				ND	
205 1,1,1-Trichloro-2,2,2-trifluoroe	1		0.000				ND	
206 Vinyl Fluoride TIC	1		0.000				ND	
197 Chlorofluoromethane TIC	1		0.000				ND	
198 Dichloro-1,1,2,2-tetrafluoroetha	1		0.000				ND	
199 1-Chloro-1,1-difluoroethane TIC	1		0.000				ND	
166 Pentane	43		2.928				ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

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

Reagents:

MSV_29_826ISS_00039 Amount Added: 1.00 Units: uL Run Reagent

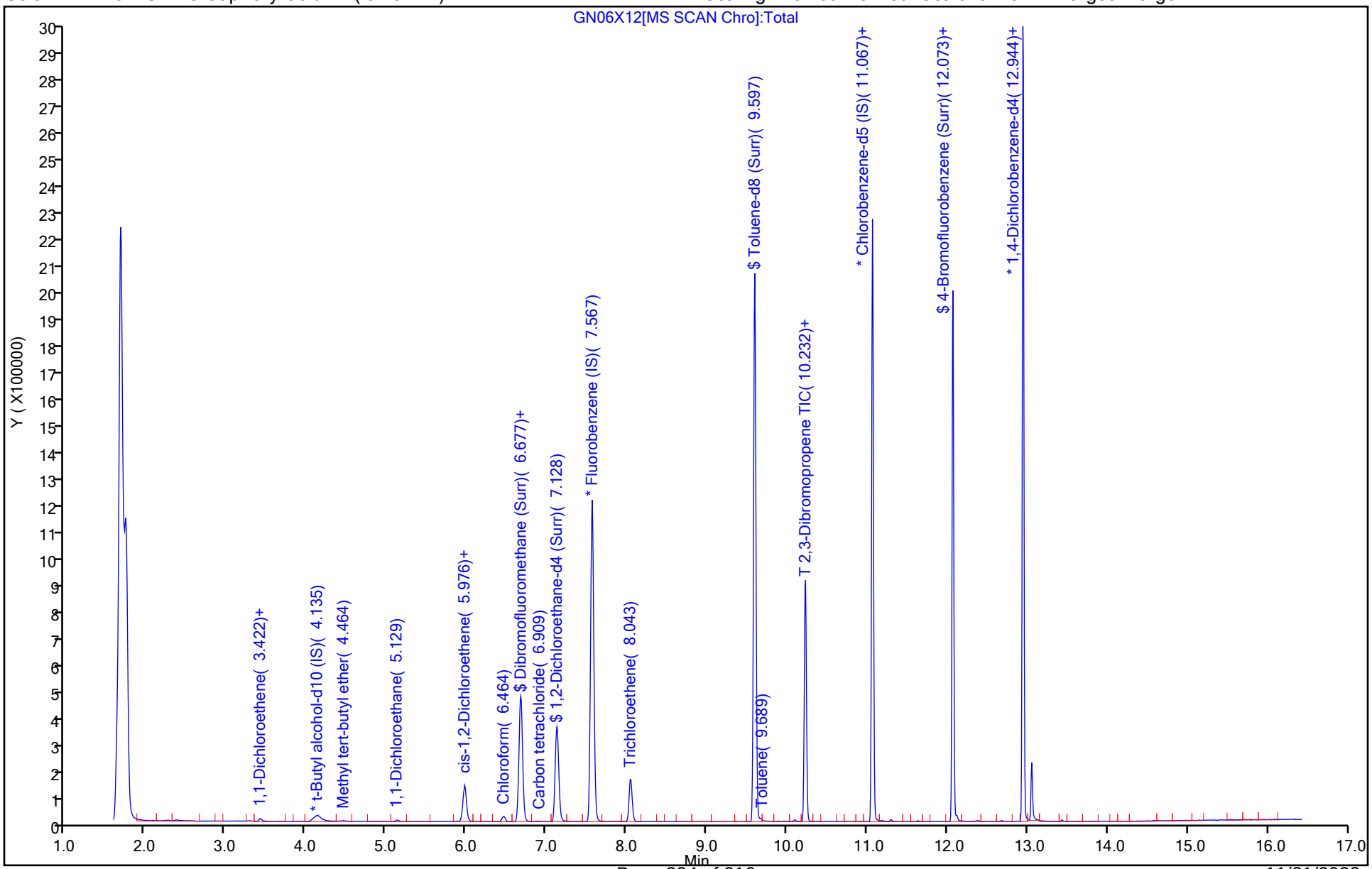
Report Date: 07-Nov-2022 21:10:06 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X12.D

Injection Date:	06-Nov-2022 15:15:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-103501-A-6	Lab Sample ID:	410-103501-6	Worklist Smp#:	13
Client ID:	HD-COD-SW-15-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



11/21/2022
12:36 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X12.D				
Lims ID:	410-103501-A-6				
Client ID:	HD-COD-SW-15-0/1-0				
Sample Type:	Client				
Inject. Date:	06-Nov-2022 15:15:30	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0070453-013				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Nov-2022 17:29:21	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1606				

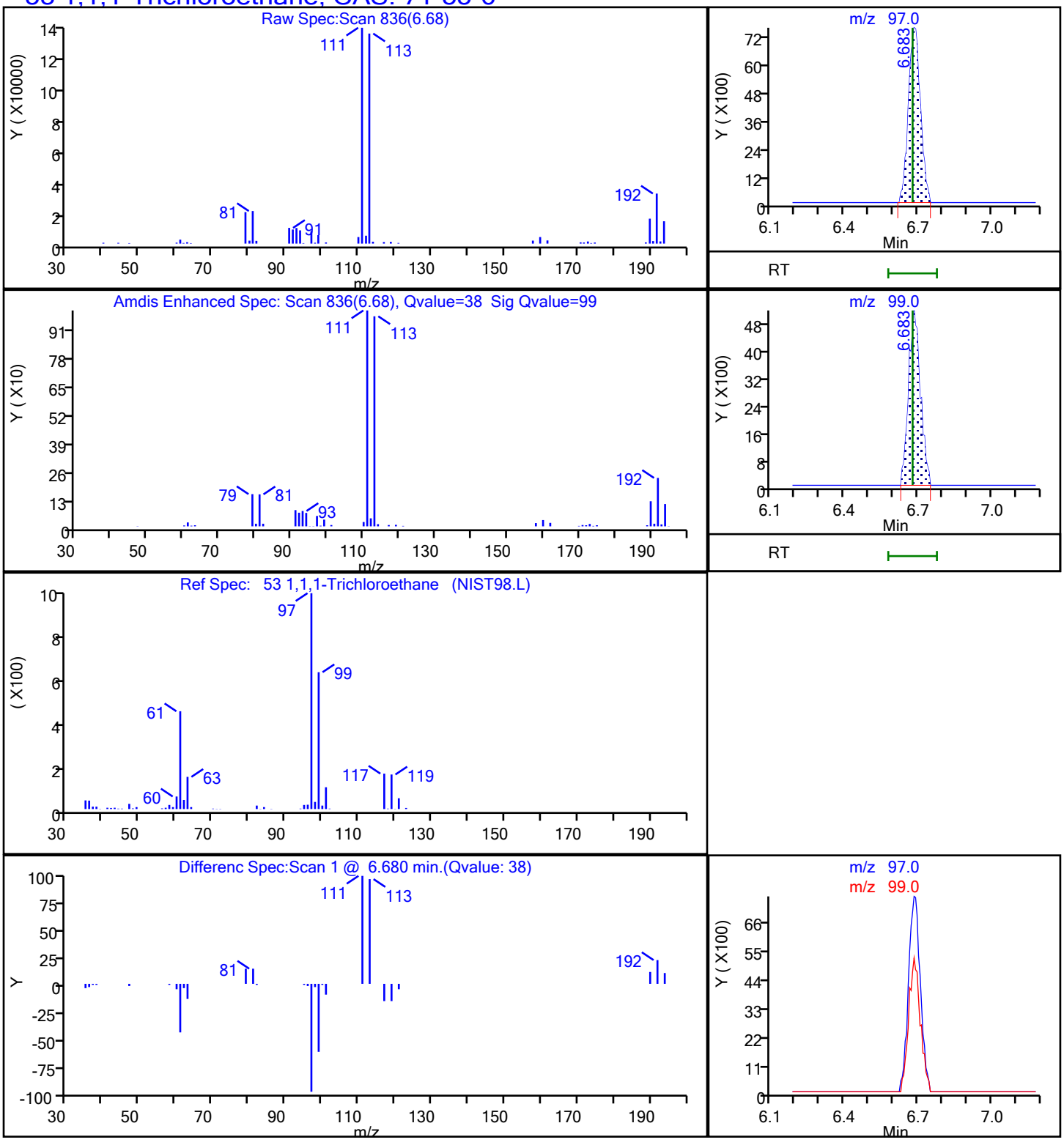
First Level Reviewer: DVW2 Date: 07-Nov-2022 17:27:42

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	103.35
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	104.74
$ 83 Toluene-d8 (Surr)	10.0	10.1	101.28
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.54	95.39

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X12.D				
Injection Date:	06-Nov-2022 15:15:30	Instrument ID:	16334		
Lims ID:	410-103501-A-6	Lab Sample ID:	410-103501-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

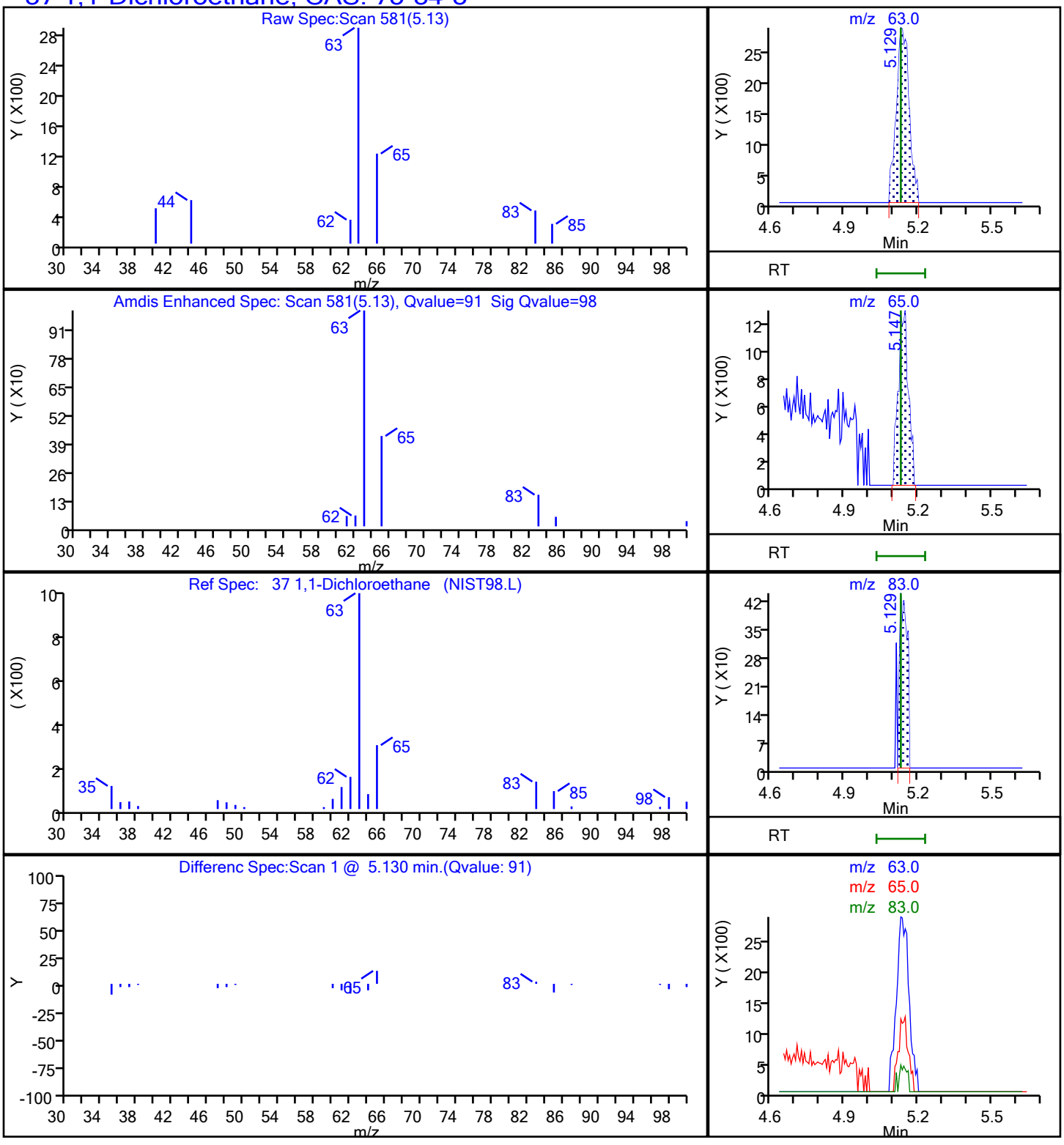
53 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X12.D				
Injection Date:	06-Nov-2022 15:15:30	Instrument ID:	16334		
Lims ID:	410-103501-A-6	Lab Sample ID:	410-103501-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

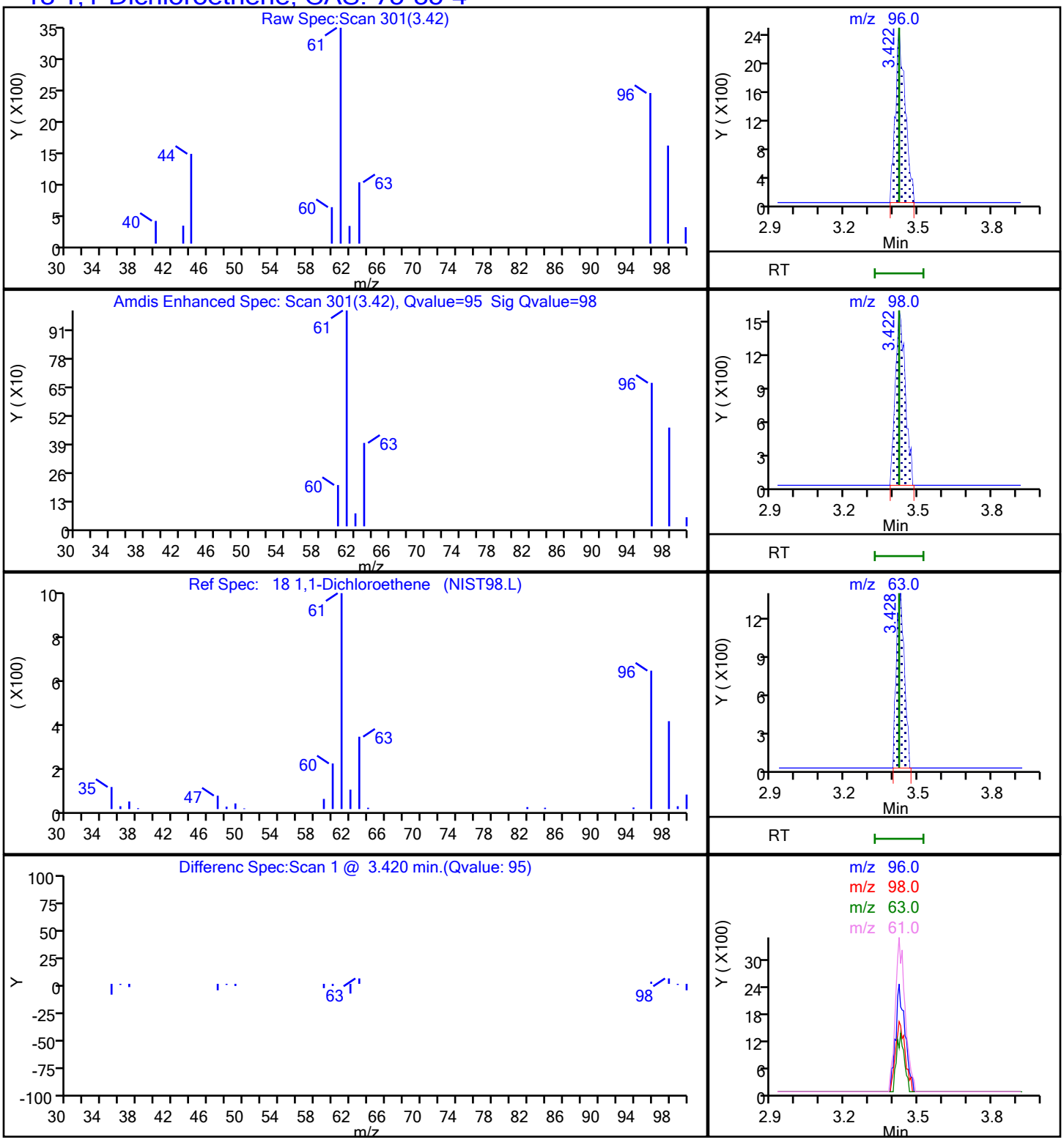
37 1,1-Dichloroethane, CAS: 75-34-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X12.D				
Injection Date:	06-Nov-2022 15:15:30	Instrument ID:	16334		
Lims ID:	410-103501-A-6	Lab Sample ID:	410-103501-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

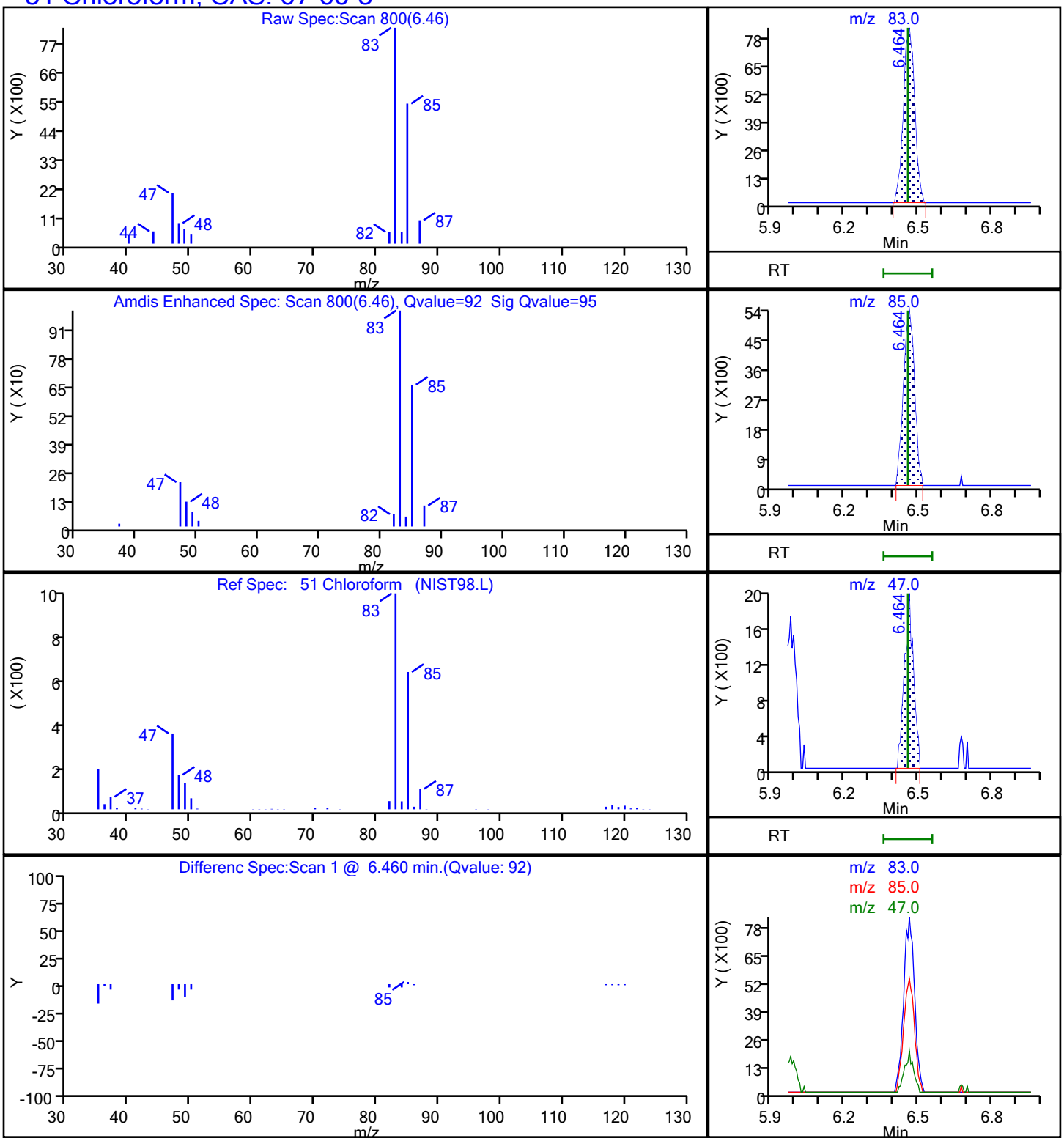
18 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X12.D				
Injection Date:	06-Nov-2022 15:15:30	Instrument ID:	16334		
Lims ID:	410-103501-A-6	Lab Sample ID:	410-103501-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

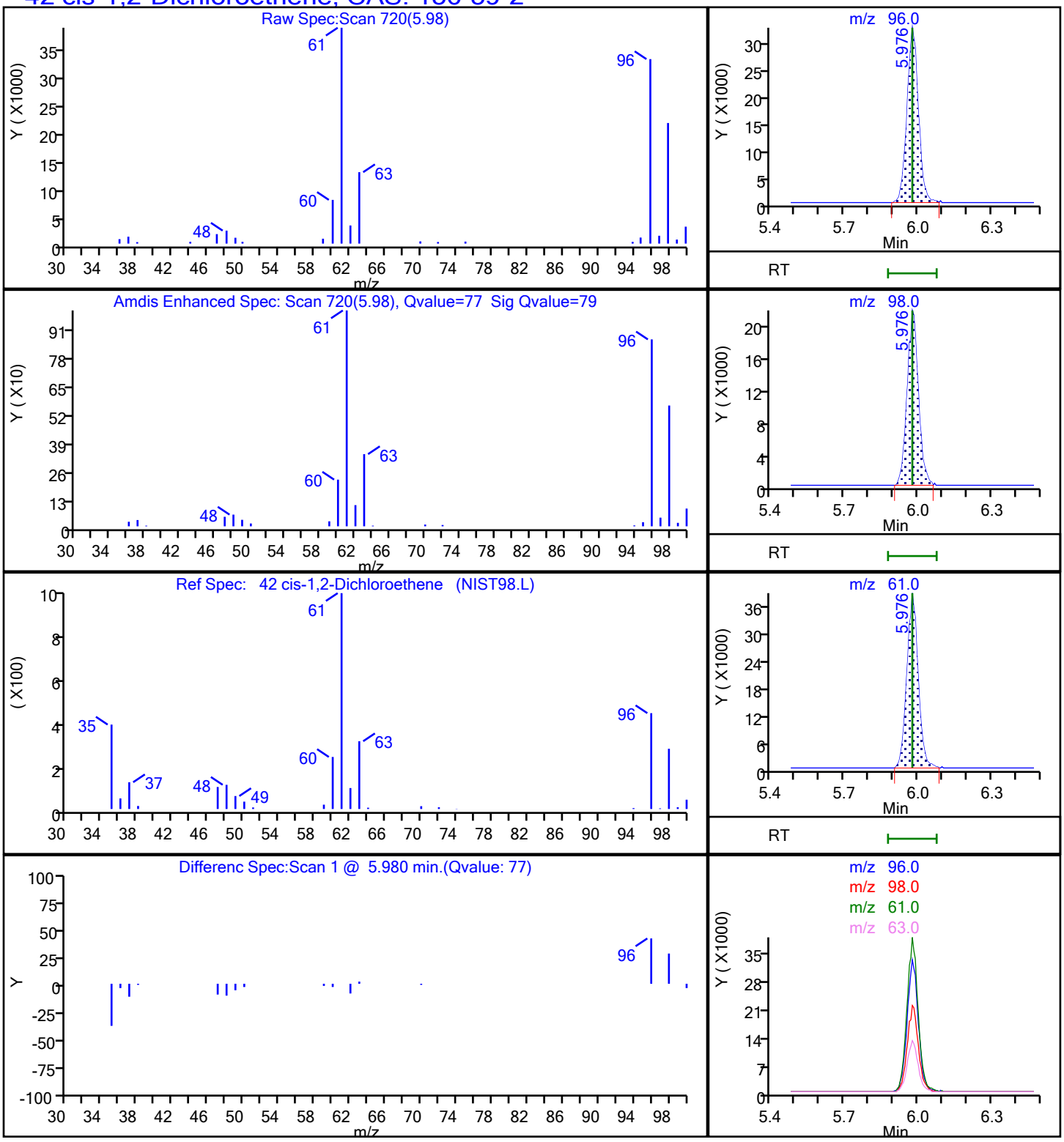
51 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X12.D				
Injection Date:	06-Nov-2022 15:15:30	Instrument ID:	16334		
Lims ID:	410-103501-A-6	Lab Sample ID:	410-103501-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

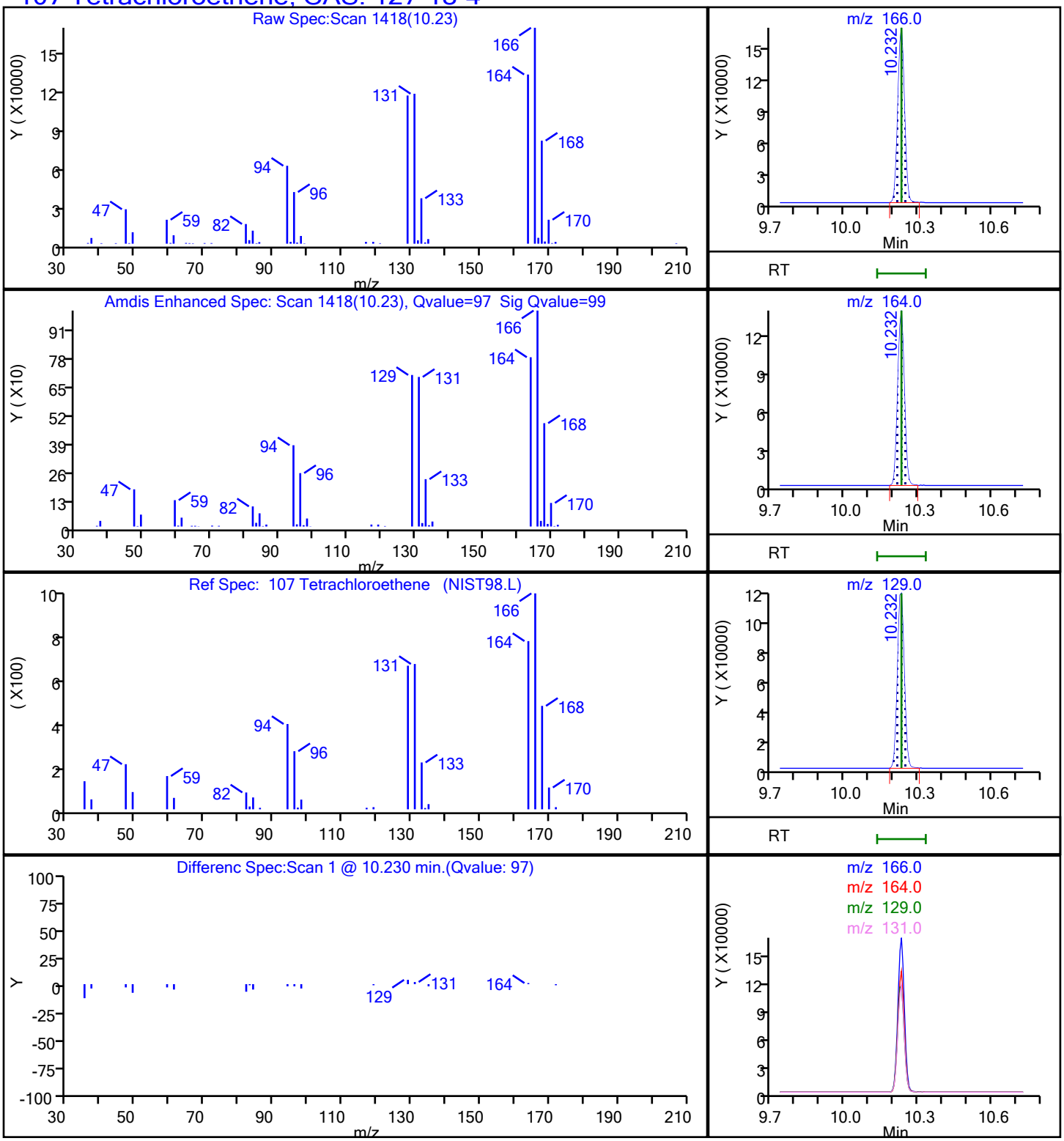
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X12.D				
Injection Date:	06-Nov-2022 15:15:30	Instrument ID:	16334		
Lims ID:	410-103501-A-6	Lab Sample ID:	410-103501-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

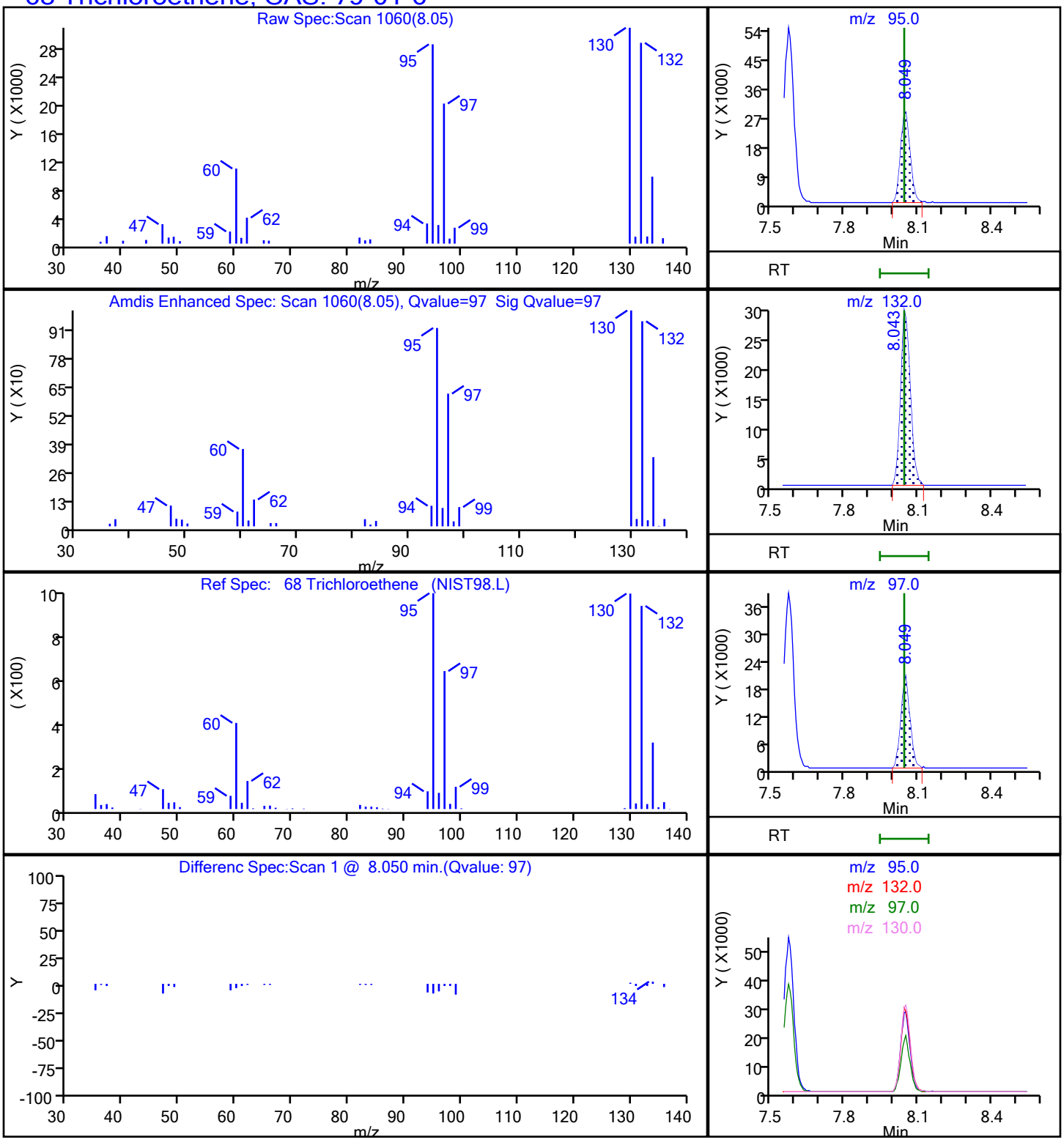
107 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X12.D				
Injection Date:	06-Nov-2022 15:15:30	Instrument ID:	16334		
Lims ID:	410-103501-A-6	Lab Sample ID:	410-103501-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

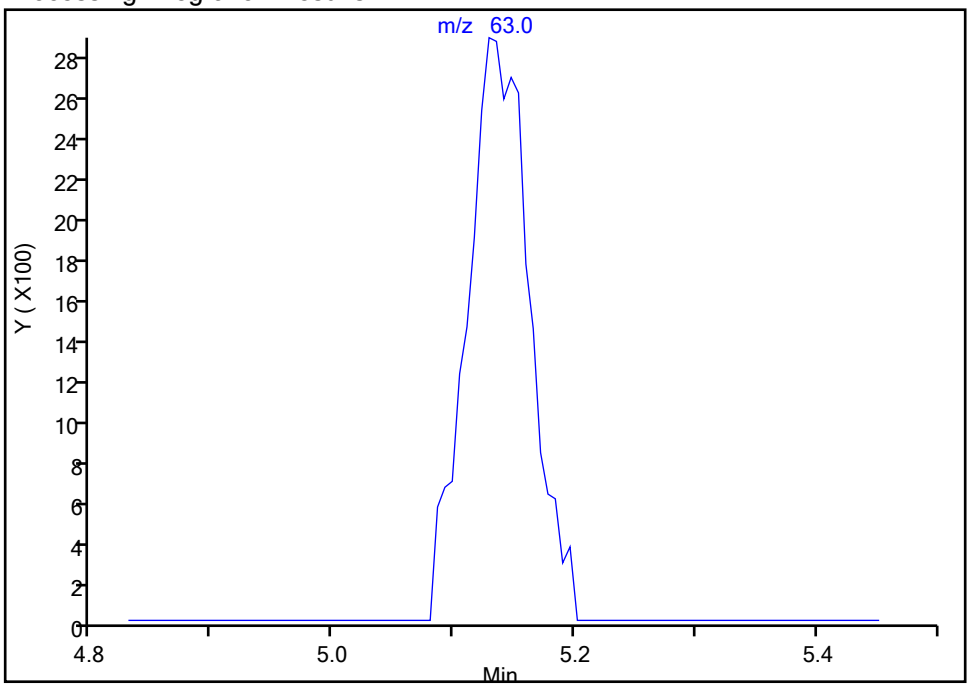
Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X12.D				
Injection Date:	06-Nov-2022 15:15:30	Instrument ID:	16334		
Lims ID:	410-103501-A-6	Lab Sample ID:	410-103501-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

37 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

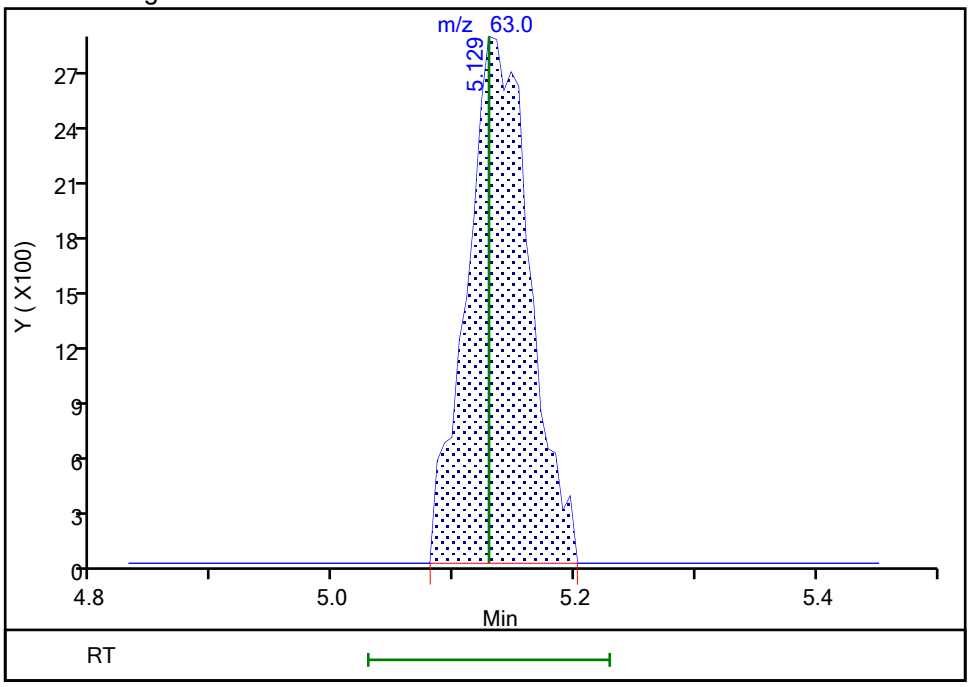
Not Detected
Expected RT: 5.13

Processing Integration Results



Manual Integration Results

RT: 5.13
Area: 10237
Amount: 0.150695
Amount Units: ug/l



Reviewer: DVW2, 07-Nov-2022 17:23:35
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

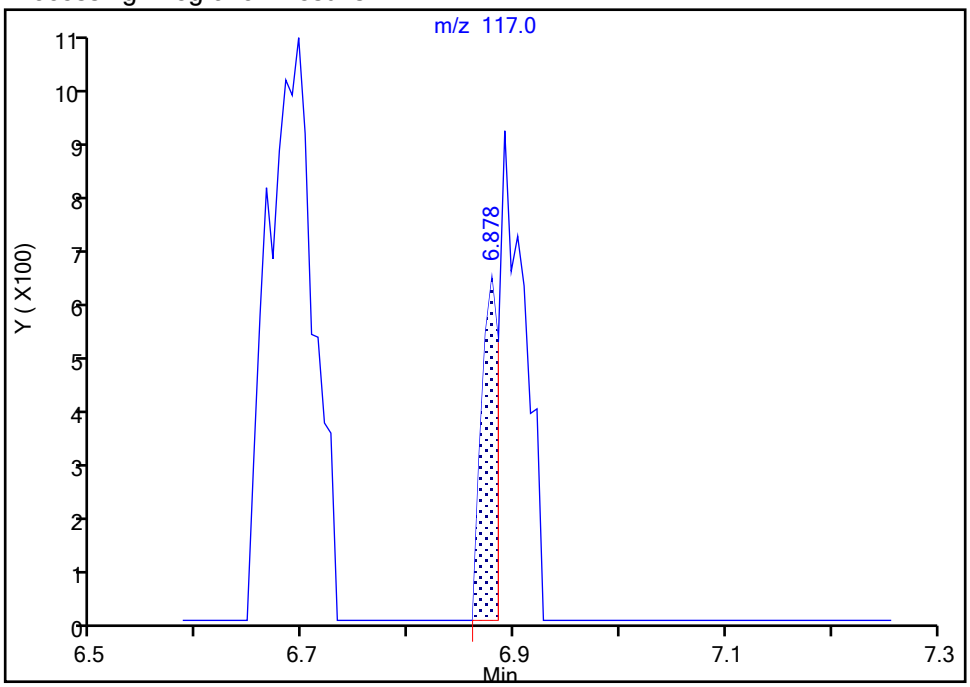
Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X12.D				
Injection Date:	06-Nov-2022 15:15:30	Instrument ID:	16334		
Lims ID:	410-103501-A-6	Lab Sample ID:	410-103501-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

56 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

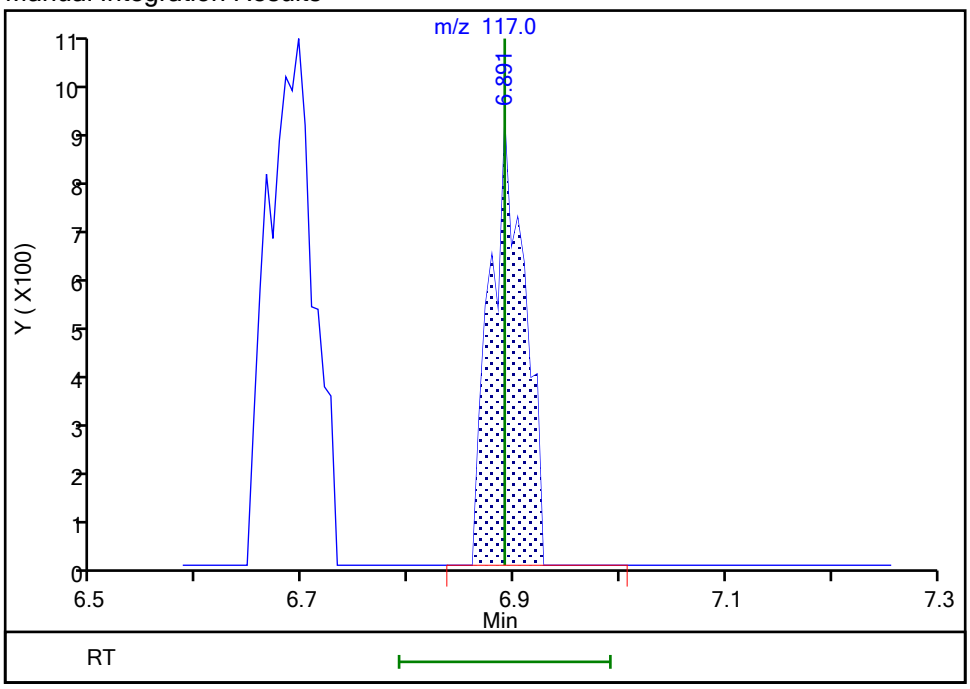
Processing Integration Results

RT: 6.88
Area: 693
Amount: 0.012678
Amount Units: ug/l



Manual Integration Results

RT: 6.89
Area: 1975
Amount: 0.036132
Amount Units: ug/l



Reviewer: DVW2, 07-Nov-2022 17:24:05

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.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0 Lab Sample ID: 410-103501-7

Matrix: Water Lab File ID: GN06X15.D

Analysis Method: 8260D Date Collected: 10/27/2022 09:50

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 16:21

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	0.13	J	0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.5	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND	^c cn	1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND	*+	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.22	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	1.8		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0 Lab Sample ID: 410-103501-7

Matrix: Water Lab File ID: GN06X15.D

Analysis Method: 8260D Date Collected: 10/27/2022 09:50

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 16:21

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.22	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		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\16334\20221106-70453.b\GN06X15.D
Lims ID: 410-103501-A-7
Client ID: HD-COD-SW-16-0/1-0
Sample Type: Client
Inject. Date: 06-Nov-2022 16:21:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070453-016
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Nov-2022 21:15:32 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

First Level Reviewer: USEJ Date: 07-Nov-2022 21:11:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.081	2.087	-0.006	96	4089	0.0804	
6 Vinyl chloride	62		2.203				ND	7
9 Bromomethane	94		2.526				ND	7
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96		3.422				ND	
20 Acetone	43	3.477	3.471	0.006	68	9848	1.50	
23 Carbon disulfide	76	3.708	3.708	0.000	94	5527	0.0606	M
29 Methylene Chloride	84		4.062				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.129	4.135	-0.006	34	129323	50.0	
33 Methyl tert-butyl ether	73		4.458				ND	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63		5.129				ND	
41 2-Butanone (MEK)	43		5.946				ND	
42 cis-1,2-Dichloroethene	96	5.976	5.976	0.000	73	10407	0.2180	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.470	6.458	0.012	81	5207	0.0685	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.671	0.000	94	442180	10.3	
53 1,1,1-Trichloroethane	97	6.684	6.677	0.007	36	8331	0.1255	
56 Carbon tetrachloride	117		6.891				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.129	7.122	0.007	62	96741	10.6	
60 Benzene	78		7.159				ND	
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.567	0.000	99	1736500	10.0	
68 Trichloroethene	95	8.043	8.043	0.000	95	10547	0.2173	
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	
$ 83 Toluene-d8 (Surr)	98	9.598	9.597	0.001	93	1730849	10.0	
84 Toluene	92	9.677	9.671	0.006	97	5213	0.0447	
85 trans-1,3-Dichloropropene	75		9.939				ND	
106 1,1,2-Trichloroethane	97		10.140				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.232	10.231	0.001	97	104704	1.78	
109 2-Hexanone	43		10.366				ND	
111 Chlorodibromomethane	129		10.524				ND	
112 Ethylene Dibromide	107		10.634				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	84	1344844	10.0	
115 Chlorobenzene	112		11.097				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
116 Ethylbenzene	91		11.182				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.298				ND	7
120 o-Xylene	106		11.628				ND	
121 Styrene	104		11.640				ND	7
122 Bromoform	173		11.798				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.073	12.066	0.007	95	616944	9.62	
127 1,1,2,2-Tetrachloroethane	83		12.176				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.951	12.944	0.007	93	794263	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

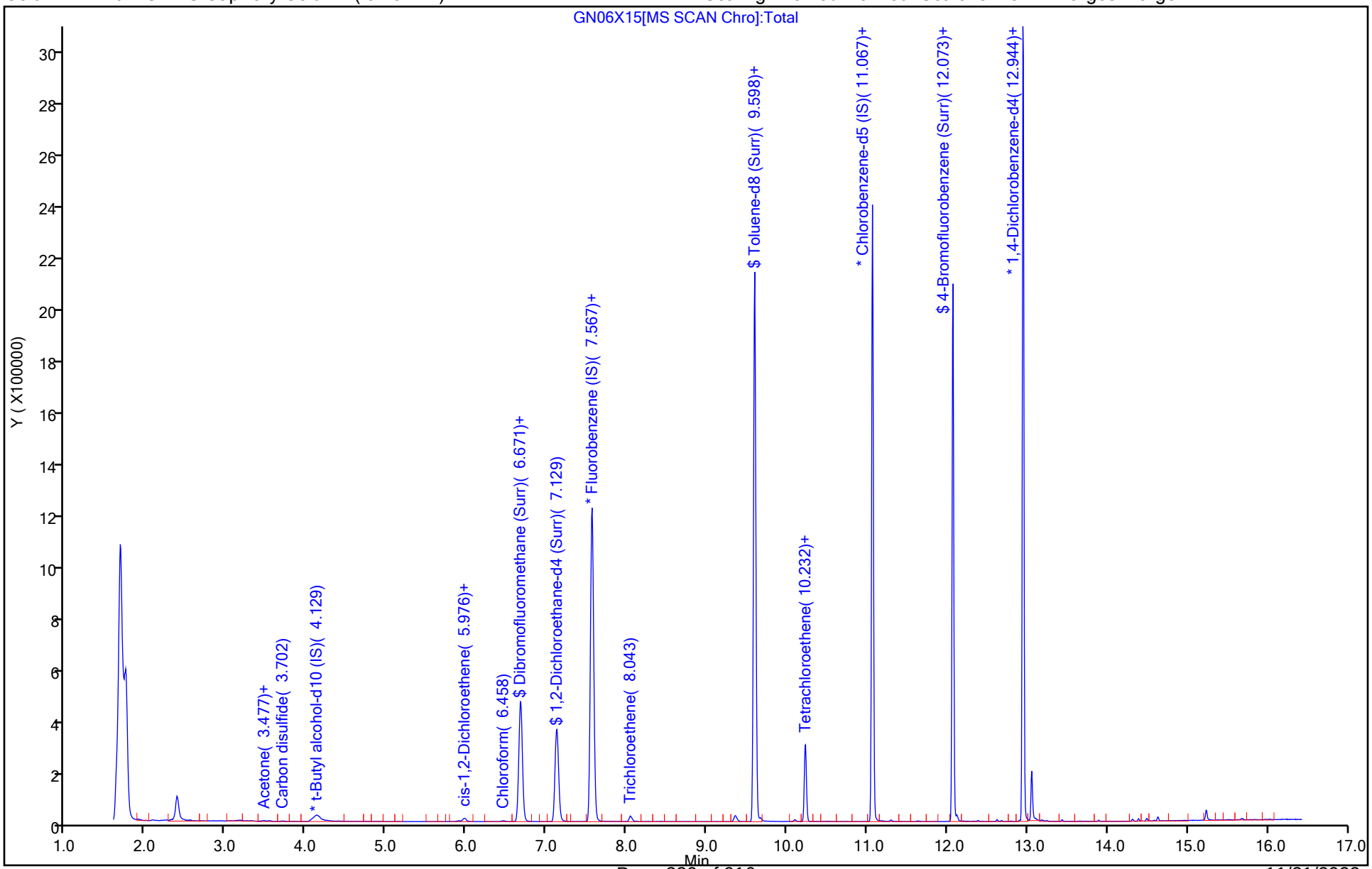
MSV_29_826ISS_00039 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 07-Nov-2022 21:15:54 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X15.D				
Injection Date:	06-Nov-2022 16:21:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-103501-A-7	Lab Sample ID:	410-103501-7	Worklist Smp#:	16
Client ID:	HD-COD-SW-16-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



11/21/2022
12:36 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X15.D				
Lims ID:	410-103501-A-7				
Client ID:	HD-COD-SW-16-0/1-0				
Sample Type:	Client				
Inject. Date:	06-Nov-2022 16:21:30	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0070453-016				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Nov-2022 21:15:32	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1606				

First Level Reviewer: USEJ Date: 07-Nov-2022 21:11:25

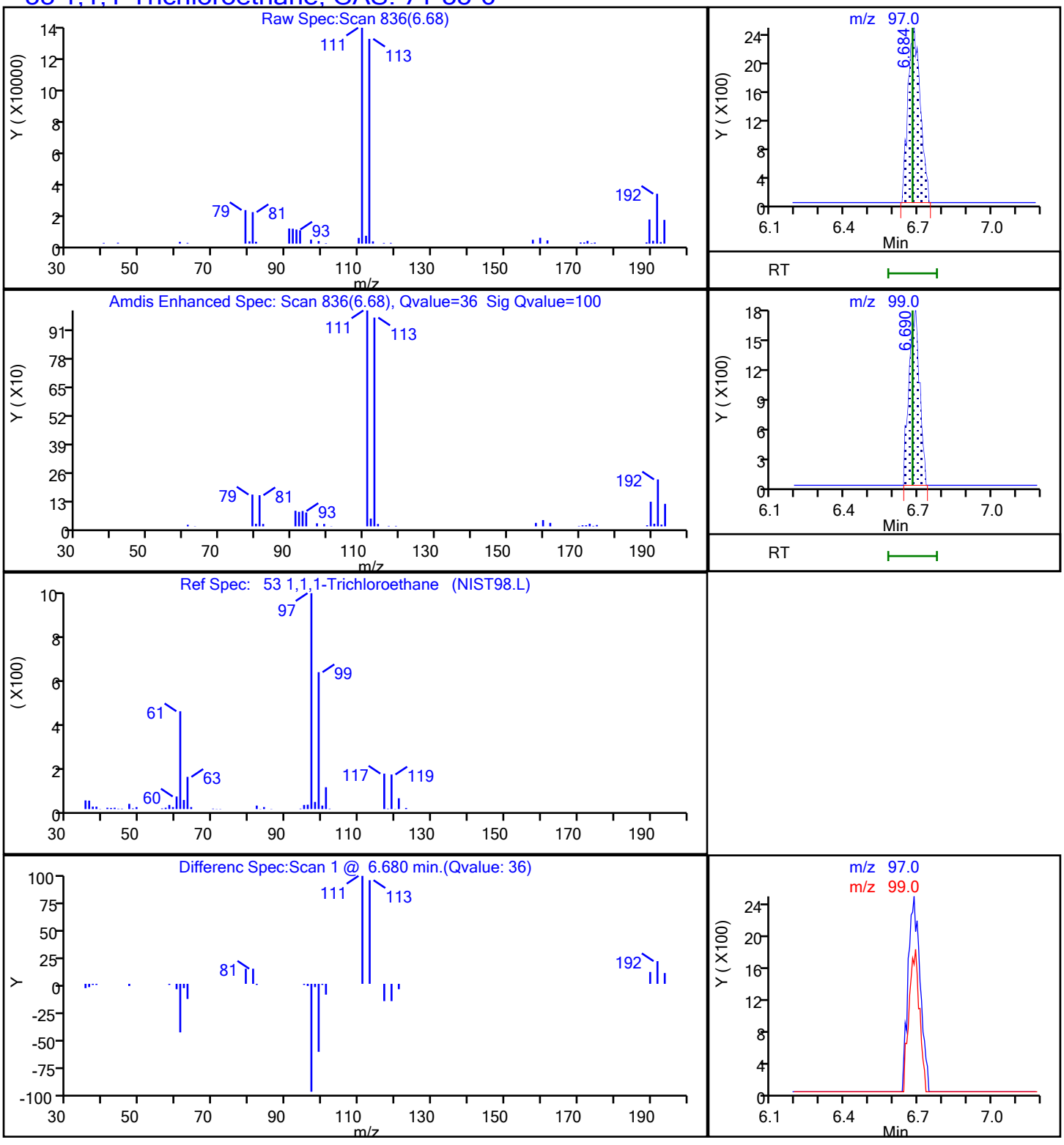
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	102.57
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.66
$ 83 Toluene-d8 (Surr)	10.0	10.0	100.50
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.62	96.24

Report Date: 07-Nov-2022 21:15:54 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X15.D				
Injection Date:	06-Nov-2022 16:21:30	Instrument ID:	16334		
Lims ID:	410-103501-A-7	Lab Sample ID:	410-103501-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

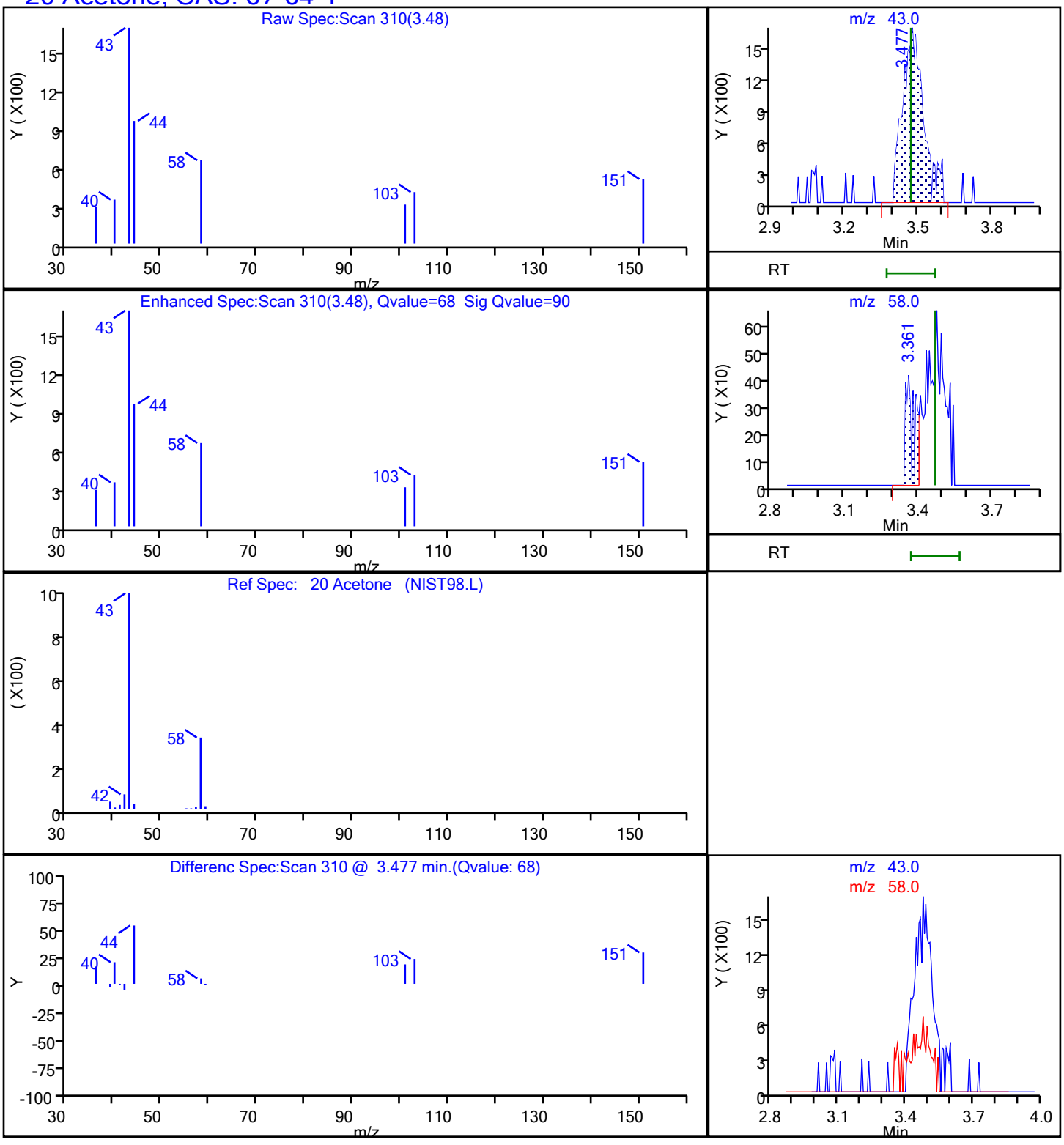
53 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X15.D				
Injection Date:	06-Nov-2022 16:21:30	Instrument ID:	16334		
Lims ID:	410-103501-A-7	Lab Sample ID:	410-103501-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

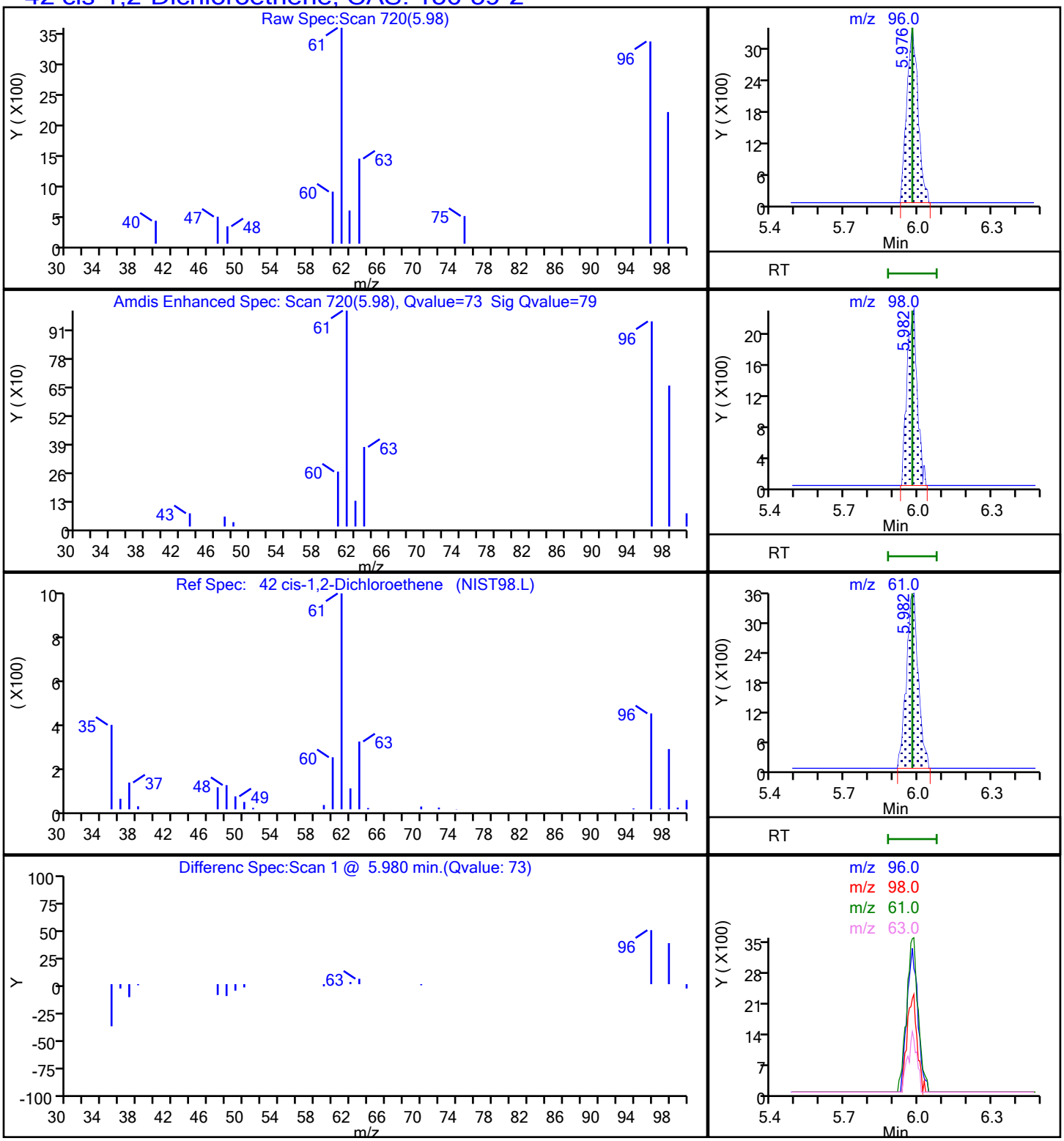
20 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X15.D				
Injection Date:	06-Nov-2022 16:21:30	Instrument ID:	16334		
Lims ID:	410-103501-A-7	Lab Sample ID:	410-103501-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

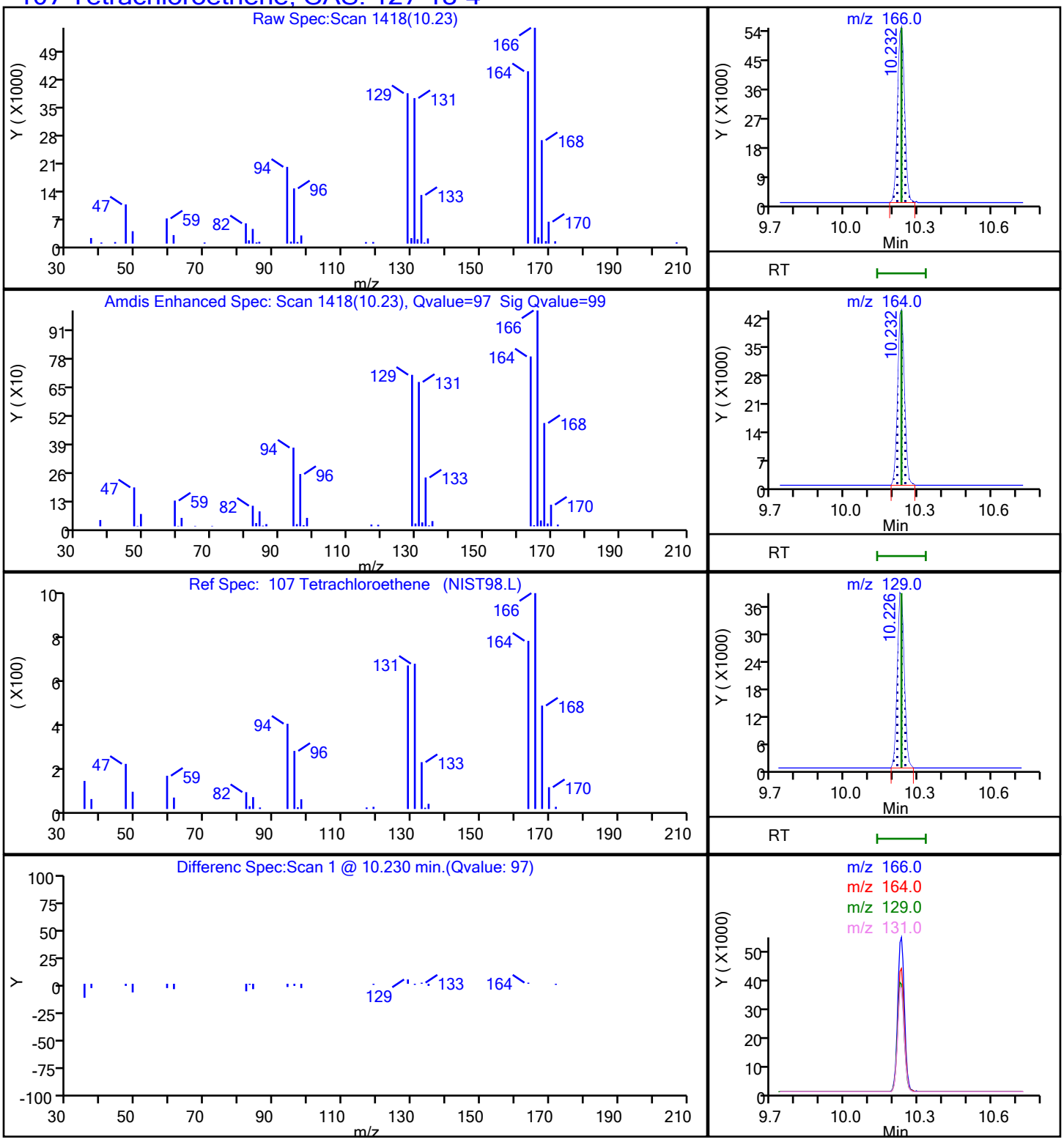
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X15.D				
Injection Date:	06-Nov-2022 16:21:30	Instrument ID:	16334		
Lims ID:	410-103501-A-7	Lab Sample ID:	410-103501-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

107 Tetrachloroethene, CAS: 127-18-4

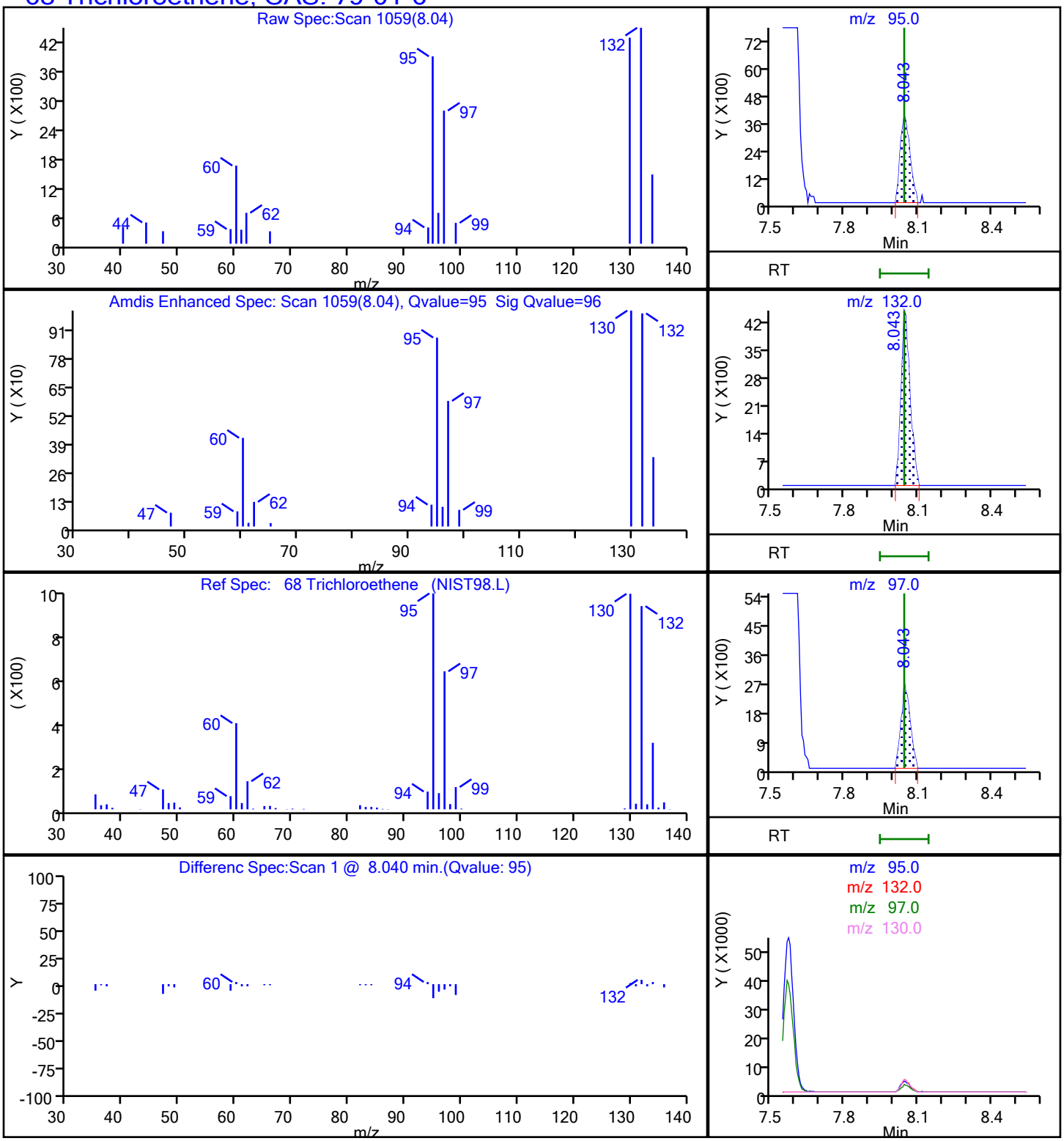


Report Date: 07-Nov-2022 21:15:54 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X15.D				
Injection Date:	06-Nov-2022 16:21:30	Instrument ID:	16334		
Lims ID:	410-103501-A-7	Lab Sample ID:	410-103501-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



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Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

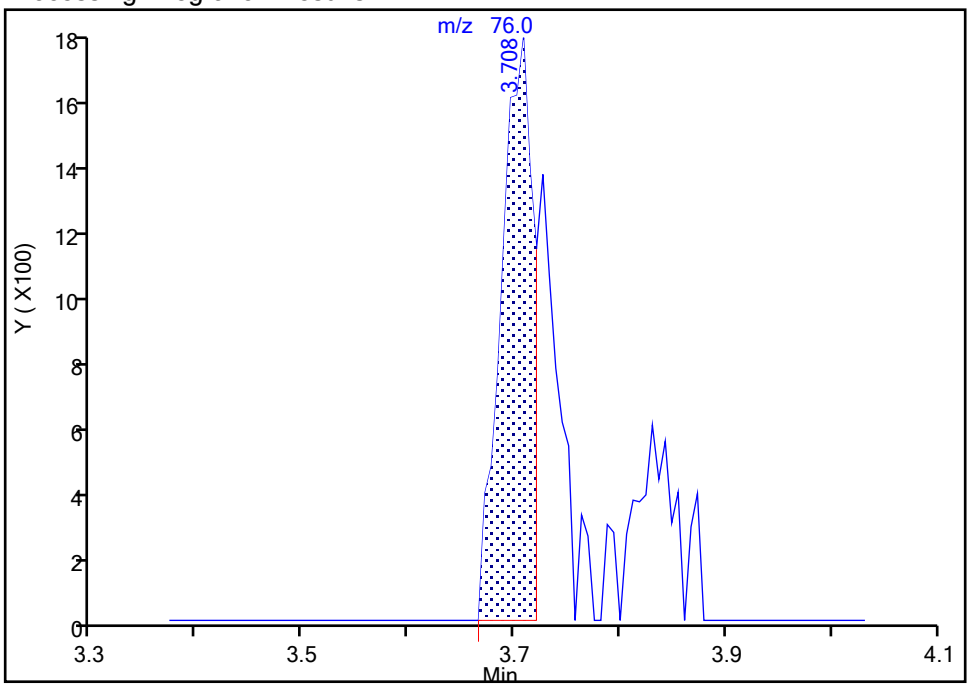
Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X15.D				
Injection Date:	06-Nov-2022 16:21:30	Instrument ID:	16334		
Lims ID:	410-103501-A-7	Lab Sample ID:	410-103501-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

23 Carbon disulfide, CAS: 75-15-0

Signal: 1

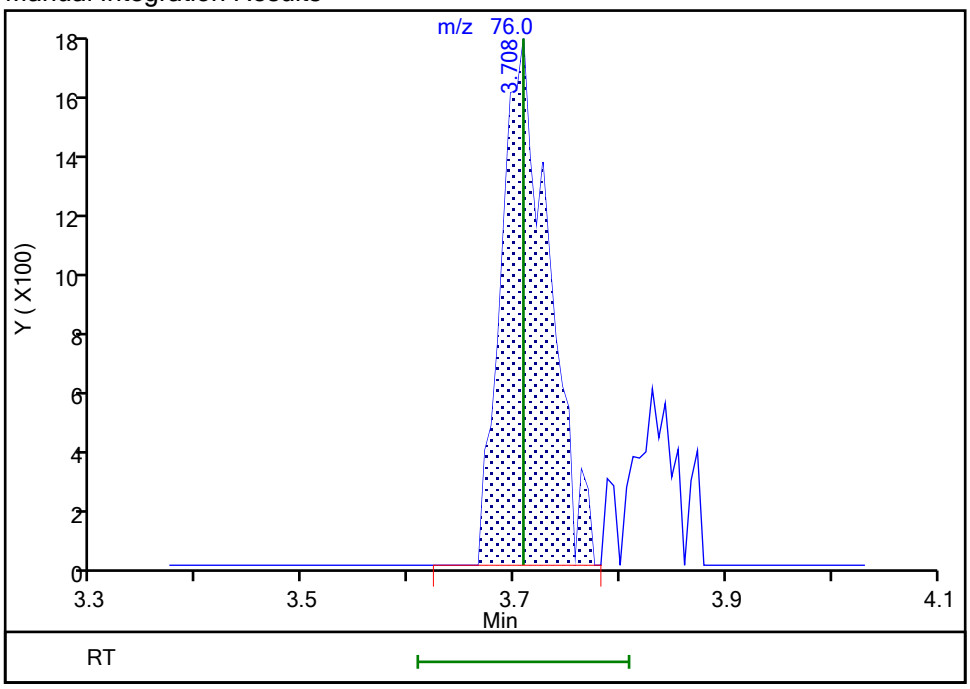
Processing Integration Results

RT: 3.71
Area: 3743
Amount: 0.041020
Amount Units: ug/l



Manual Integration Results

RT: 3.71
Area: 5527
Amount: 0.060572
Amount Units: ug/l



Reviewer: USEJ, 07-Nov-2022 21:11:12
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.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0 Lab Sample ID: 410-103501-8

Matrix: Water Lab File ID: GN06X16.D

Analysis Method: 8260D Date Collected: 10/27/2022 09:55

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 16:43

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	6.2		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	1.2		0.50	0.10
75-35-4	1,1-Dichloroethene	0.51		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND	^c cn	1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND	*+	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.31	J	0.50	0.090
74-87-3	Chloromethane	0.11	J	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	3.0		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0 Lab Sample ID: 410-103501-8

Matrix: Water Lab File ID: GN06X16.D

Analysis Method: 8260D Date Collected: 10/27/2022 09:55

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 16:43

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	3.7		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X16.D
Lims ID: 410-103501-A-8
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 06-Nov-2022 16:43:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070453-017
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Nov-2022 21:15:32 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

First Level Reviewer: USEJ Date: 07-Nov-2022 21:13:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.087	2.087	0.000	96	5626	0.1087	
6 Vinyl chloride	62		2.203				ND	7
9 Bromomethane	94		2.526				ND	7
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96	3.422	3.422	0.000	95	19506	0.5125	
20 Acetone	43	3.477	3.471	0.006	20	3299	0.5075	
23 Carbon disulfide	76		3.708				ND	7
29 Methylene Chloride	84		4.062				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.141	4.135	0.006	42	128229	50.0	
33 Methyl tert-butyl ether	73	4.464	4.458	0.006	83	3997	0.0368	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63	5.135	5.129	0.006	96	83211	1.15	
41 2-Butanone (MEK)	43		5.946				ND	
42 cis-1,2-Dichloroethene	96	5.976	5.976	0.000	78	143657	2.96	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.464	6.458	0.006	91	23637	0.3054	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	94	455936	10.4	
53 1,1,1-Trichloroethane	97	6.683	6.677	0.006	97	415960	6.16	
56 Carbon tetrachloride	117		6.891				ND	7
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.134	7.122	0.012	63	99852	10.7	
60 Benzene	78		7.159				ND	
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.567	0.000	99	1767002	10.0	
68 Trichloroethene	95	8.049	8.043	0.006	97	184232	3.73	
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	
$ 83 Toluene-d8 (Surr)	98	9.597	9.597	0.000	93	1755503	9.79	
84 Toluene	92	9.677	9.671	0.006	97	6114	0.0504	
85 trans-1,3-Dichloropropene	75		9.939				ND	
106 1,1,2-Trichloroethane	97	10.146	10.140	0.006	1	925	0.0259	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.231	10.231	0.000	97	4905963	80.2	E
109 2-Hexanone	43		10.366				ND	
111 Chlorodibromomethane	129		10.524				ND	
112 Ethylene Dibromide	107		10.634				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	84	1399872	10.0	
115 Chlorobenzene	112		11.097				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
116 Ethylbenzene	91		11.182				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.298				ND	7
120 o-Xylene	106		11.628				ND	
121 Styrene	104		11.640				ND	
122 Bromoform	173		11.798				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.072	12.066	0.006	95	635387	9.52	
127 1,1,2,2-Tetrachloroethane	83		12.176				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.950	12.944	0.006	94	806148	10.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Reagents:

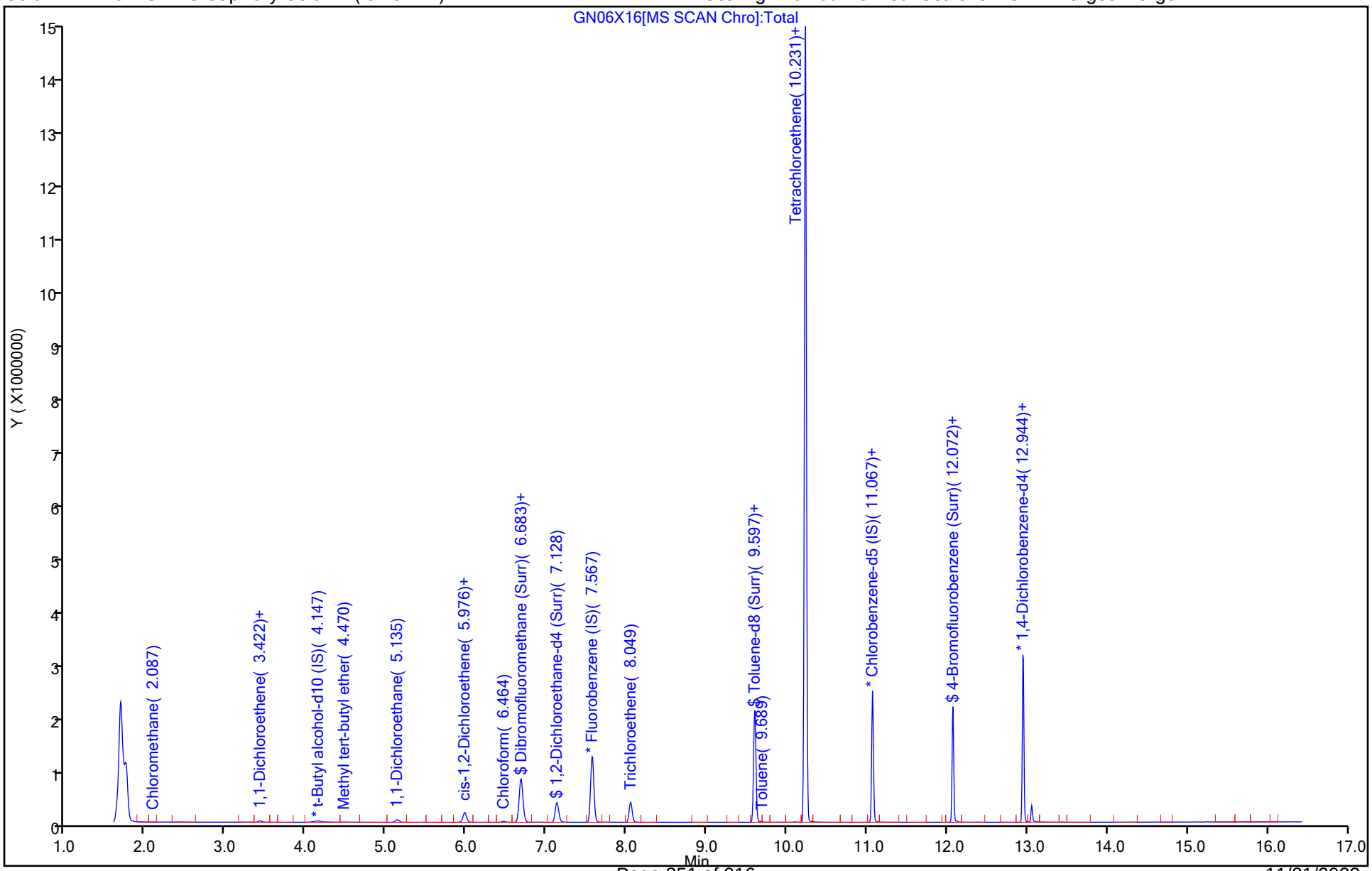
MSV_29_826ISS_00039 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 07-Nov-2022 21:15:57 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X16.D				
Injection Date:	06-Nov-2022 16:43:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-103501-A-8	Lab Sample ID:	410-103501-8	Worklist Smp#:	17
Client ID:	HD-COD-SW-17-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X16.D				
Lims ID:	410-103501-A-8				
Client ID:	HD-COD-SW-17-0/1-0				
Sample Type:	Client				
Inject. Date:	06-Nov-2022 16:43:30	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0070453-017				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Nov-2022 21:15:32	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1606				

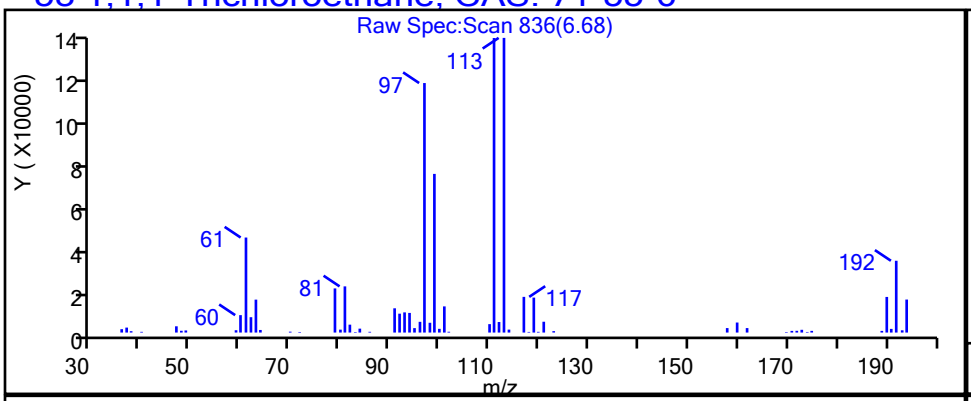
First Level Reviewer: USEJ Date: 07-Nov-2022 21:13:46

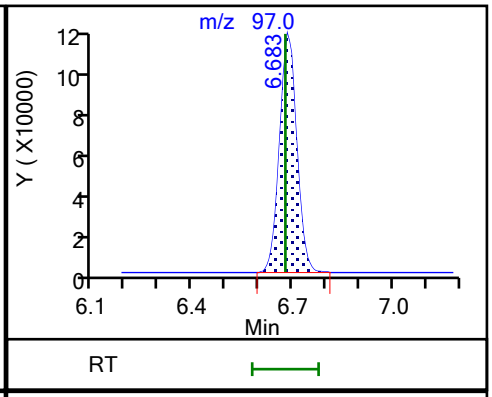
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.4	103.93
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.7	107.17
$ 83 Toluene-d8 (Surr)	10.0	9.79	97.92
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.52	95.22

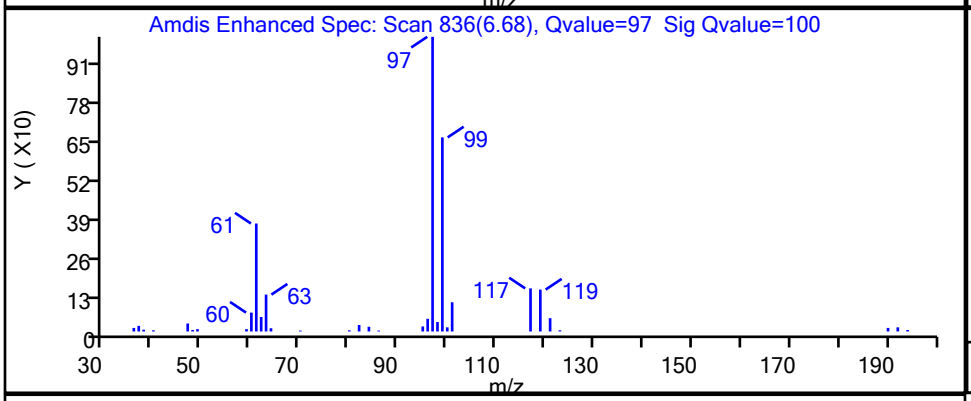
Eurofins Lancaster Laboratories Environment Testing, LLC

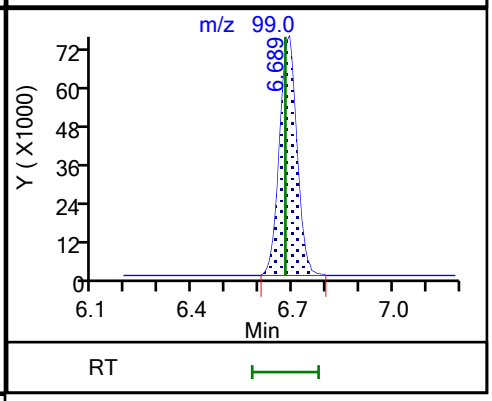
Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X16.D				
Injection Date:	06-Nov-2022 16:43:30	Instrument ID:	16334		
Lims ID:	410-103501-A-8	Lab Sample ID:	410-103501-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

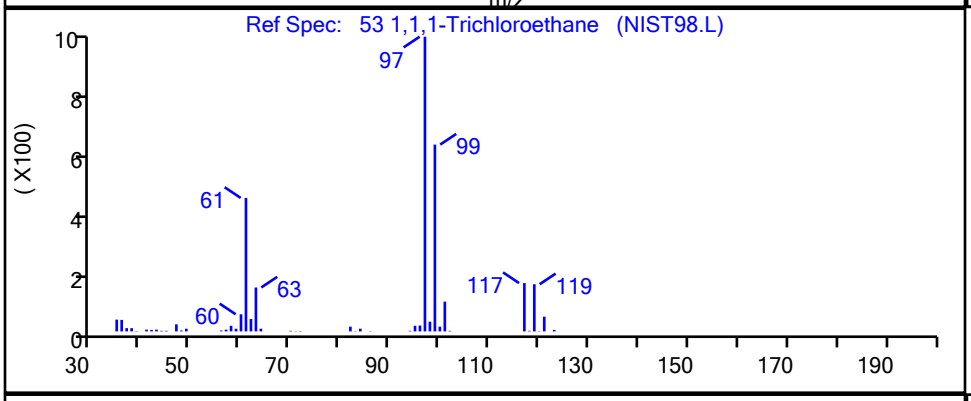
53 1,1,1-Trichloroethane, CAS: 71-55-6

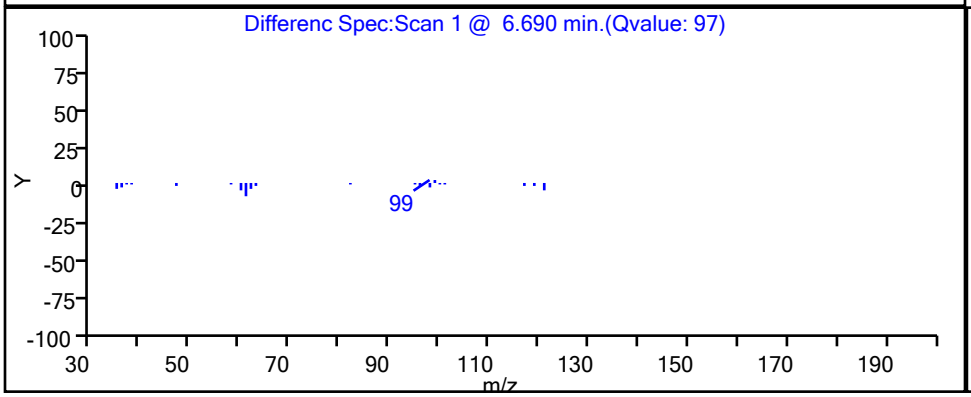


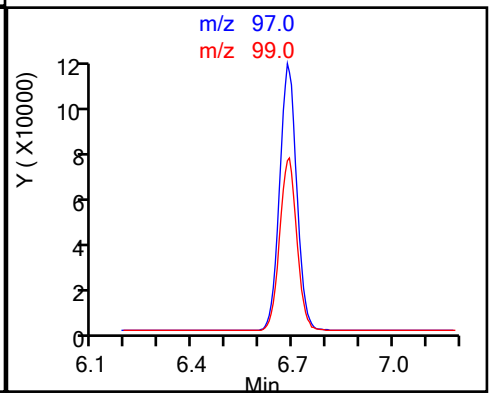








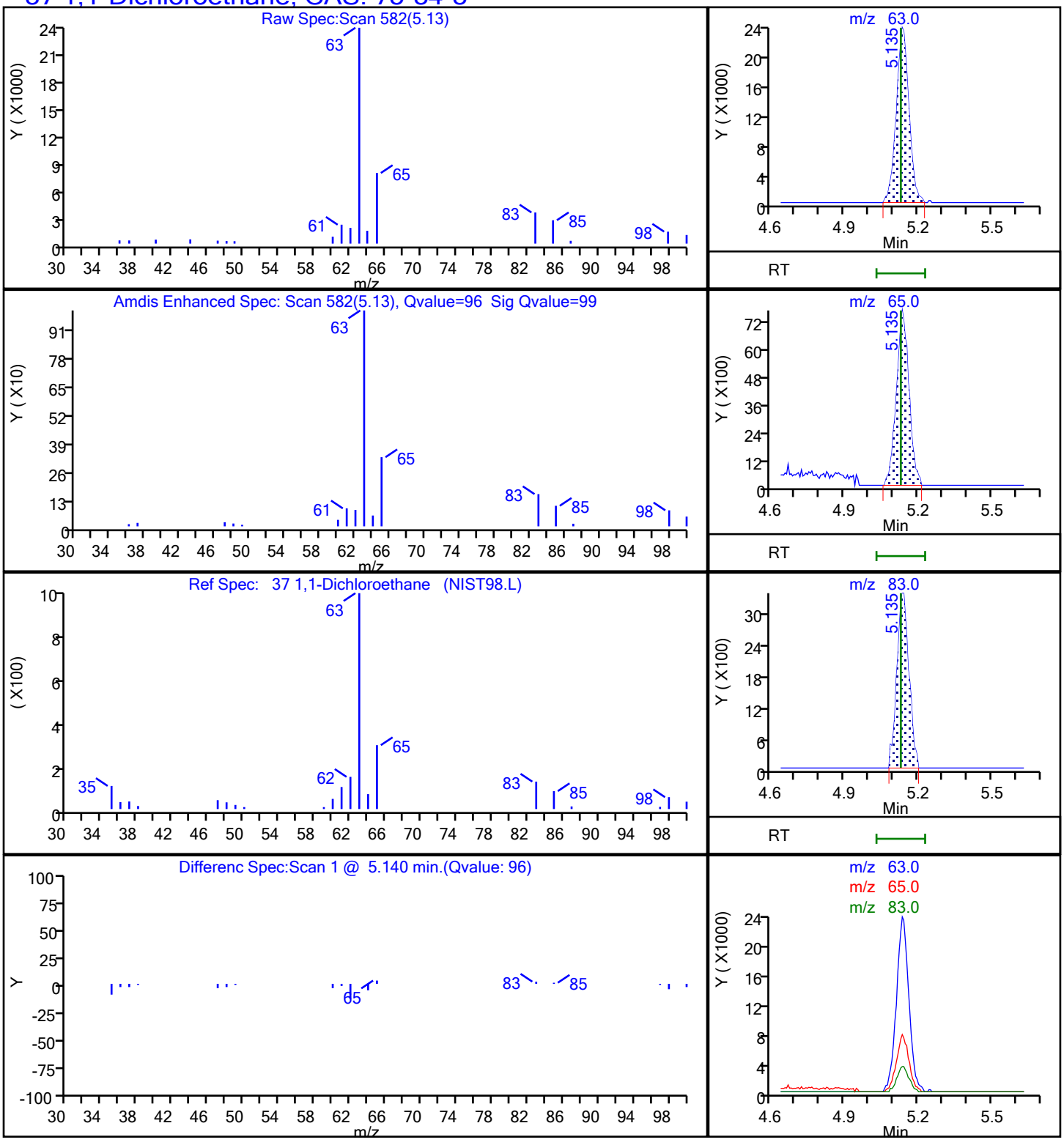




Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X16.D				
Injection Date:	06-Nov-2022 16:43:30	Instrument ID:	16334		
Lims ID:	410-103501-A-8	Lab Sample ID:	410-103501-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

37 1,1-Dichloroethane, CAS: 75-34-3

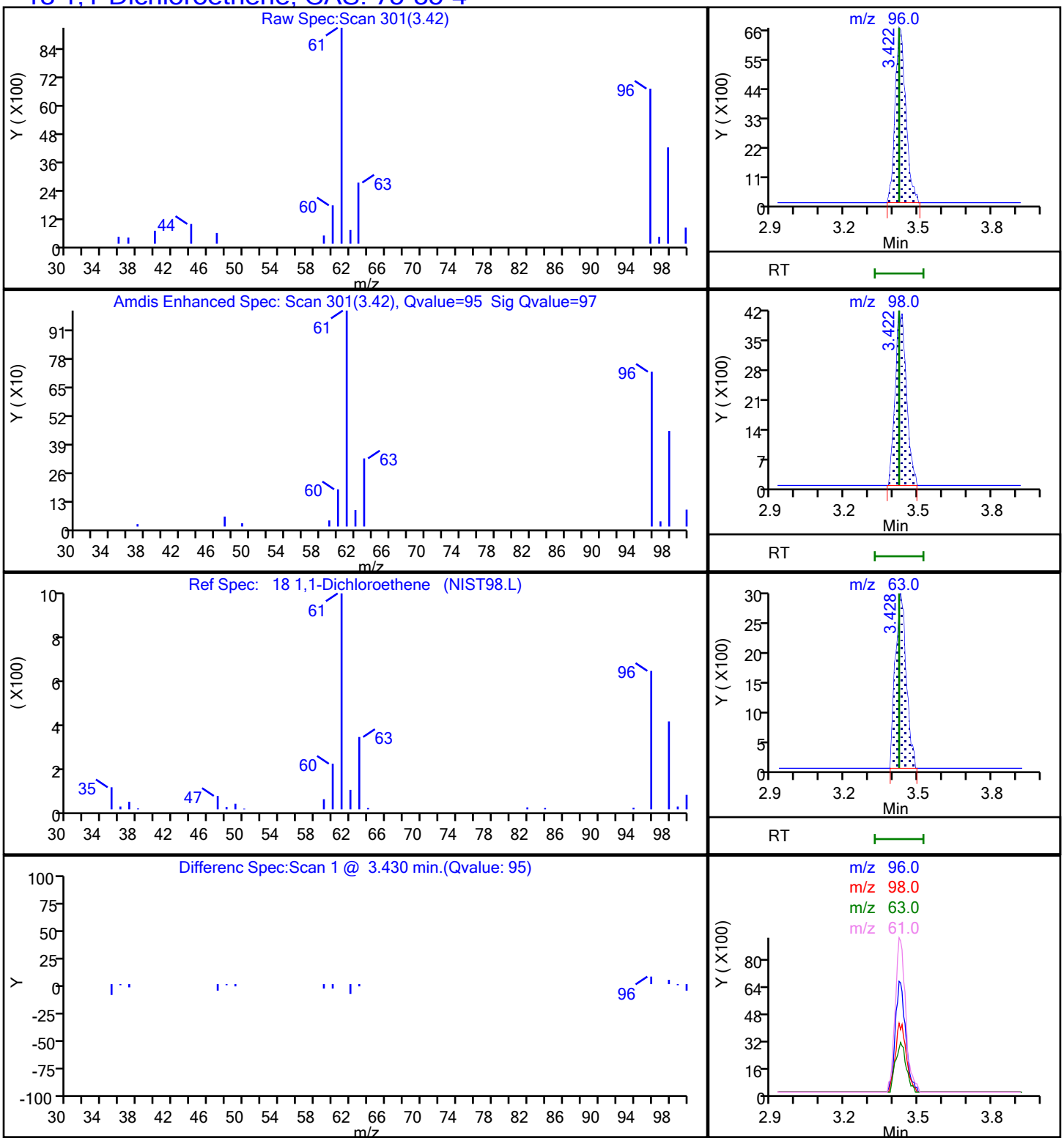


Report Date: 07-Nov-2022 21:15:57 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X16.D				
Injection Date:	06-Nov-2022 16:43:30	Instrument ID:	16334		
Lims ID:	410-103501-A-8	Lab Sample ID:	410-103501-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

18 1,1-Dichloroethene, CAS: 75-35-4



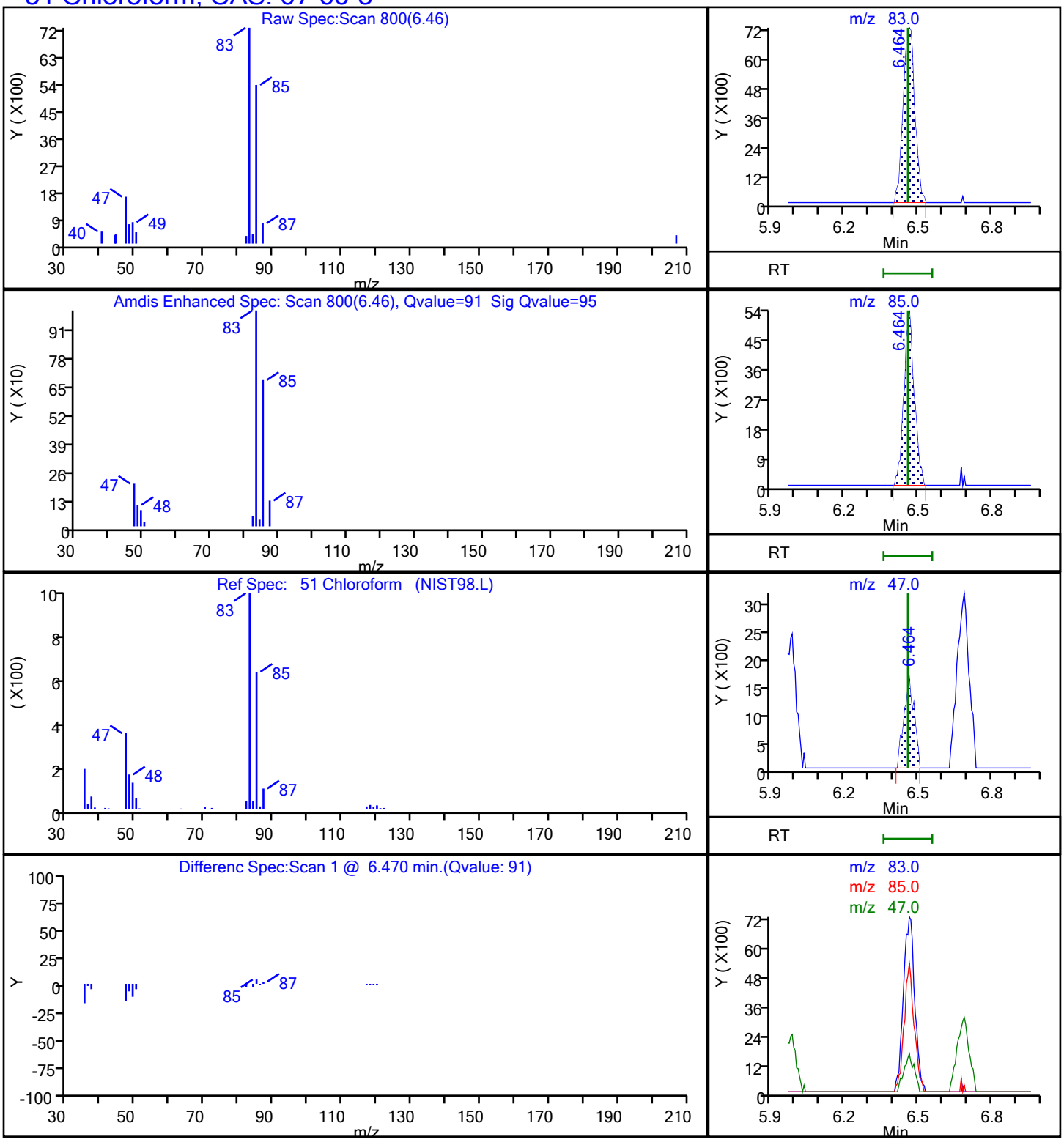
11/21/2022
12:36 PM

Report Date: 07-Nov-2022 21:15:58 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X16.D				
Injection Date:	06-Nov-2022 16:43:30	Instrument ID:	16334		
Lims ID:	410-103501-A-8	Lab Sample ID:	410-103501-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

51 Chloroform, CAS: 67-66-3



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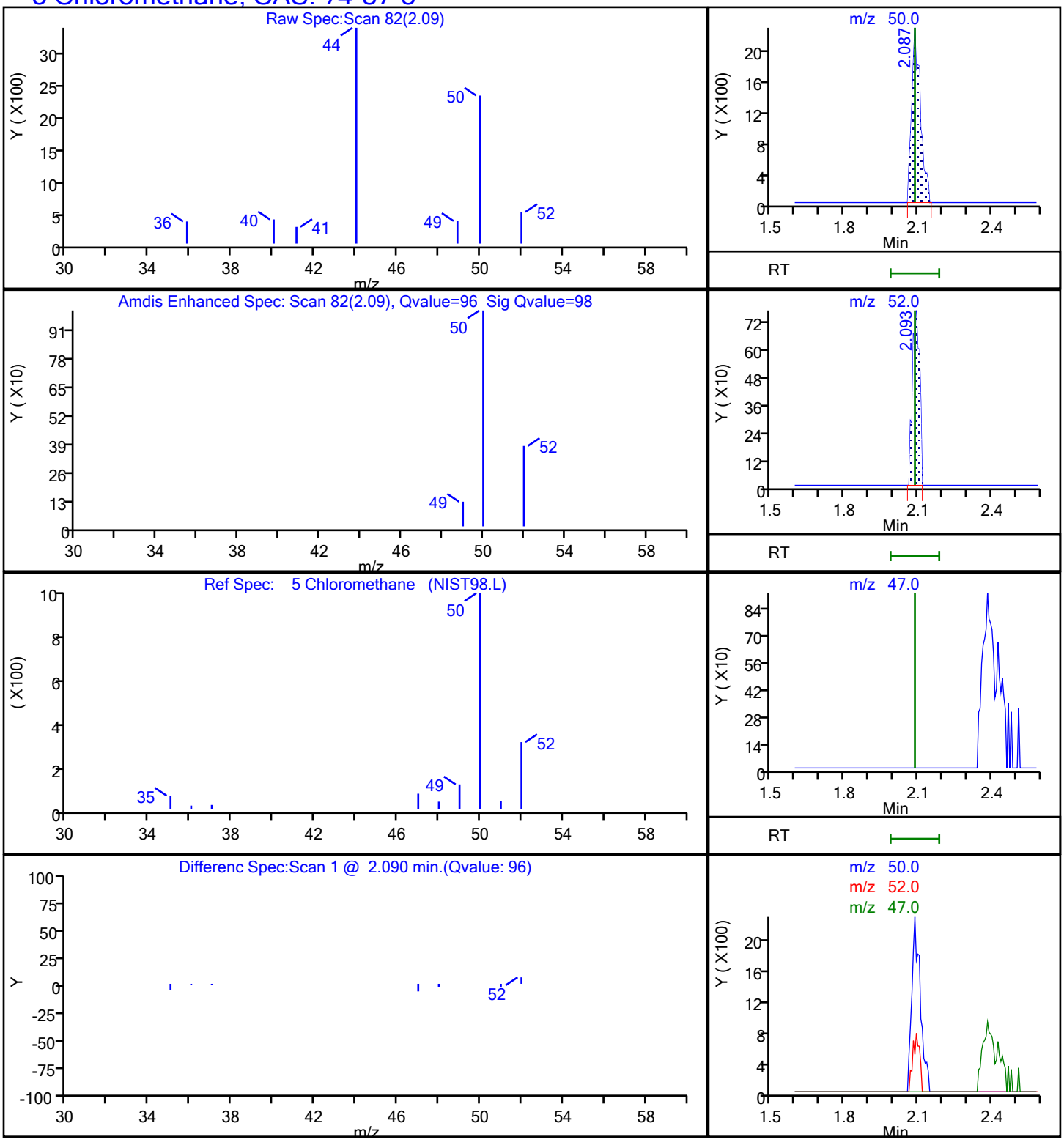
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X16.D				
Injection Date:	06-Nov-2022 16:43:30	Instrument ID:	16334		
Lims ID:	410-103501-A-8	Lab Sample ID:	410-103501-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

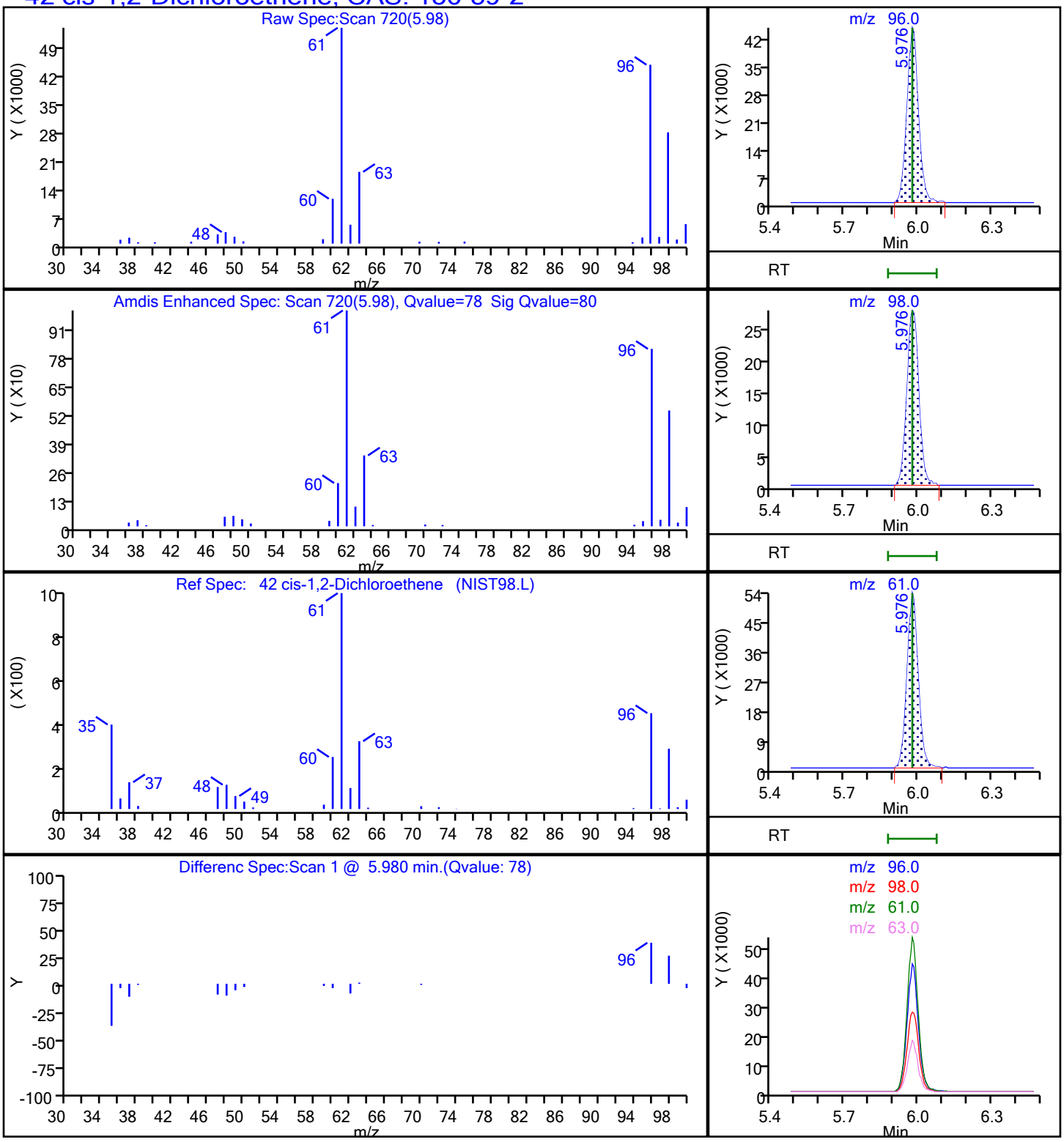
5 Chloromethane, CAS: 74-87-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X16.D				
Injection Date:	06-Nov-2022 16:43:30	Instrument ID:	16334		
Lims ID:	410-103501-A-8	Lab Sample ID:	410-103501-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

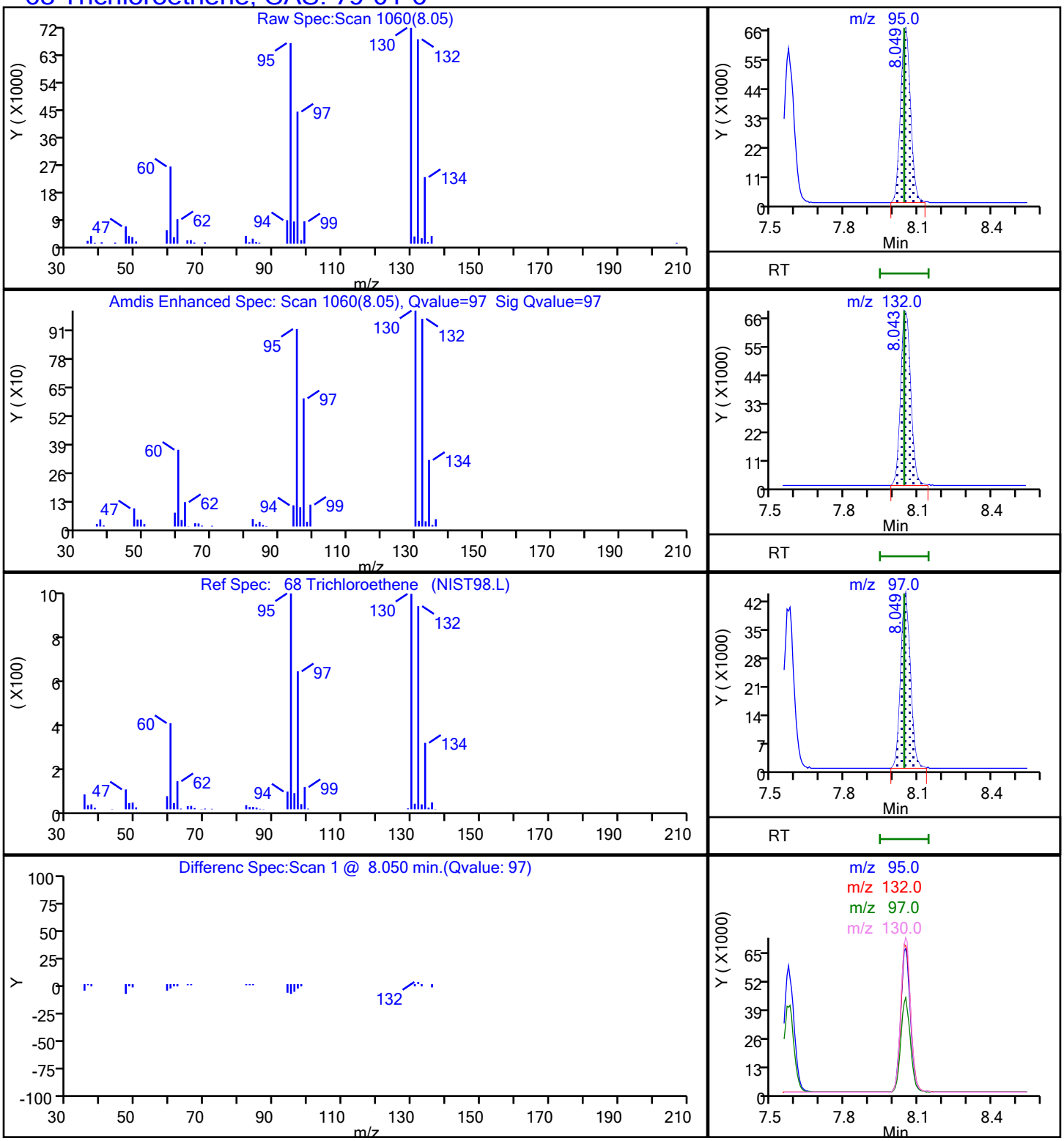


Report Date: 07-Nov-2022 21:15:58 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X16.D				
Injection Date:	06-Nov-2022 16:43:30	Instrument ID:	16334		
Lims ID:	410-103501-A-8	Lab Sample ID:	410-103501-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



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12:36 PM

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0 DL Lab Sample ID: 410-103501-8 DL

Matrix: Water Lab File ID: IN08X22.D

Analysis Method: 8260D Date Collected: 10/27/2022 09:55

Sample wt/vol: 25(mL) Date Analyzed: 11/08/2022 18:24

Soil Aliquot Vol: Dilution Factor: 10

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

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

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

Analysis Batch No.: 315144 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	71		5.0	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		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\19930\20221108-70638.b\IN08X22.D
Lims ID: 410-103501-B-8 DL
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 08-Nov-2022 18:24:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0070638-023
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20221108-70638.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 09-Nov-2022 14:51:17 Calib Date: 11-Oct-2022 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1619

First Level Reviewer: changnoit Date: 09-Nov-2022 14:52:45

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	4 Chloromethane	50		2.129				ND	
	5 Vinyl chloride	62		2.233				ND	
	7 Bromomethane	94		2.568				ND	
	8 Chloroethane	64		2.654				ND	
	15 1,1-Dichloroethene	96	3.501	3.507	-0.006	12	1567	0.0362	
	16 Acetone	43		3.532				ND	7
	20 Carbon disulfide	76		3.800				ND	7
	25 Methylene Chloride	84		4.160				ND	
*	26 t-Butyl alcohol-d10 (IS)	65	4.172	4.166	0.006	98	134804	50.0	
	29 Methyl tert-butyl ether	73		4.562				ND	
	30 trans-1,2-Dichloroethene	96		4.568				ND	
	32 1,1-Dichloroethane	63	5.226	5.226	0.000	91	8302	0.0971	
	38 2-Butanone (MEK)	43		6.019				ND	
	39 cis-1,2-Dichloroethene	96	6.056	6.049	0.007	76	16591	0.3136	
	46 Chlorobromomethane	128		6.379				ND	
	48 Chloroform	83		6.531				ND	7
$	49 Dibromofluoromethane (Surr)	113	6.744	6.751	-0.007	94	409664	9.73	
	50 1,1,1-Trichloroethane	97	6.763	6.757	0.006	96	39198	0.4811	
	54 Carbon tetrachloride	117		6.976				ND	
$	56 1,2-Dichloroethane-d4 (Surr)	102	7.196	7.202	-0.006	98	86244	10.3	
	57 Benzene	78		7.232				ND	
	58 1,2-Dichloroethane	62		7.299				ND	
*	61 Fluorobenzene (IS)	96	7.634	7.635	0.000	99	1668364	10.0	
	64 Trichloroethene	95	8.122	8.110	0.012	97	18568	0.3423	
	66 1,2-Dichloropropane	63		8.439				ND	
	71 Dichlorobromomethane	83		8.787				ND	
	76 cis-1,3-Dichloropropene	75		9.335				ND	
	77 4-Methyl-2-pentanone (MIBK)	43		9.500				ND	
$	78 Toluene-d8 (Surr)	98	9.646	9.646	0.000	93	1640753	9.58	
	79 Toluene	92		9.719				ND	7
	97 trans-1,3-Dichloropropene	75		9.976				ND	
	100 1,1,2-Trichloroethane	97		10.183				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.274	10.274	0.000	98	463085	7.08	
103 2-Hexanone	43		10.396				ND	
105 Chlorodibromomethane	129		10.561				ND	
106 Ethylene Dibromide	107		10.671				ND	
* 107 Chlorobenzene-d5 (IS)	117	11.103	11.103	0.000	84	1294654	10.0	
109 Chlorobenzene	112		11.128				ND	
111 1,1,1,2-Tetrachloroethane	131		11.213				ND	
112 Ethylbenzene	91		11.213				ND	
S 110 Xylenes, Total	106		11.245				ND	7
113 m-Xylene & p-Xylene	106		11.329				ND	7
114 o-Xylene	106		11.658				ND	
115 Styrene	104		11.676				ND	
116 Bromoform	173		11.835				ND	
$ 120 4-Bromofluorobenzene (Surr)	95	12.103	12.103	0.000	94	596167	9.41	
121 1,1,2,2-Tetrachloroethane	83		12.201				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	94	731151	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

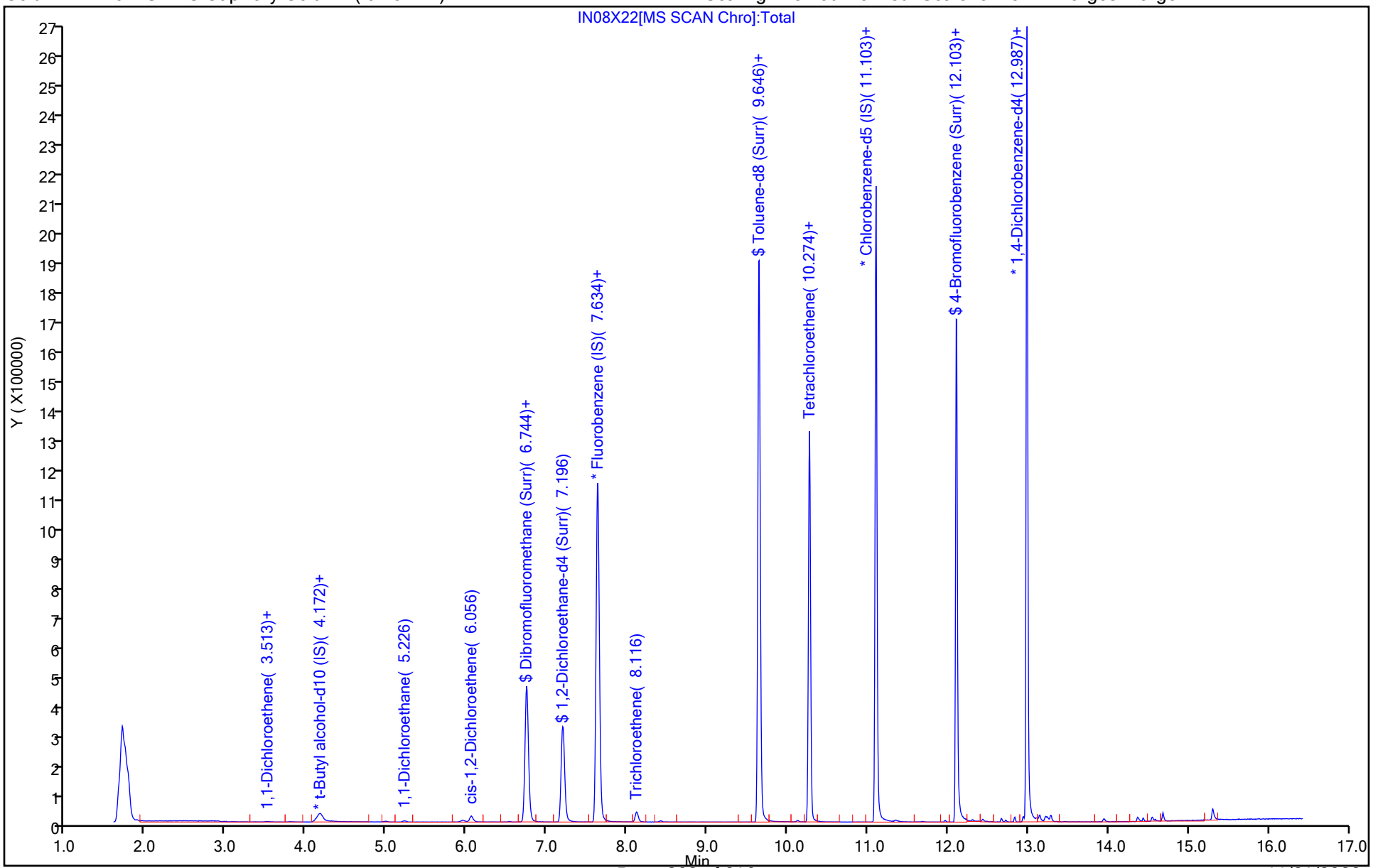
MSV_LLcentISS_00005 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Nov-2022 14:52:45 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08X22.D				
Injection Date:	08-Nov-2022 18:24:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	410-103501-B-8 DL	Lab Sample ID:	410-103501-8	Worklist Smp#:	23
Client ID:	HD-COD-SW-17-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	22
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08X22.D				
Lims ID:	410-103501-B-8 DL				
Client ID:	HD-COD-SW-17-0/1-0				
Sample Type:	Client				
Inject. Date:	08-Nov-2022 18:24:30	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	10.0000		
Sample Info:	410-0070638-023				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20221108-70638.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Nov-2022 14:51:17	Calib Date:	11-Oct-2022 20:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1619				

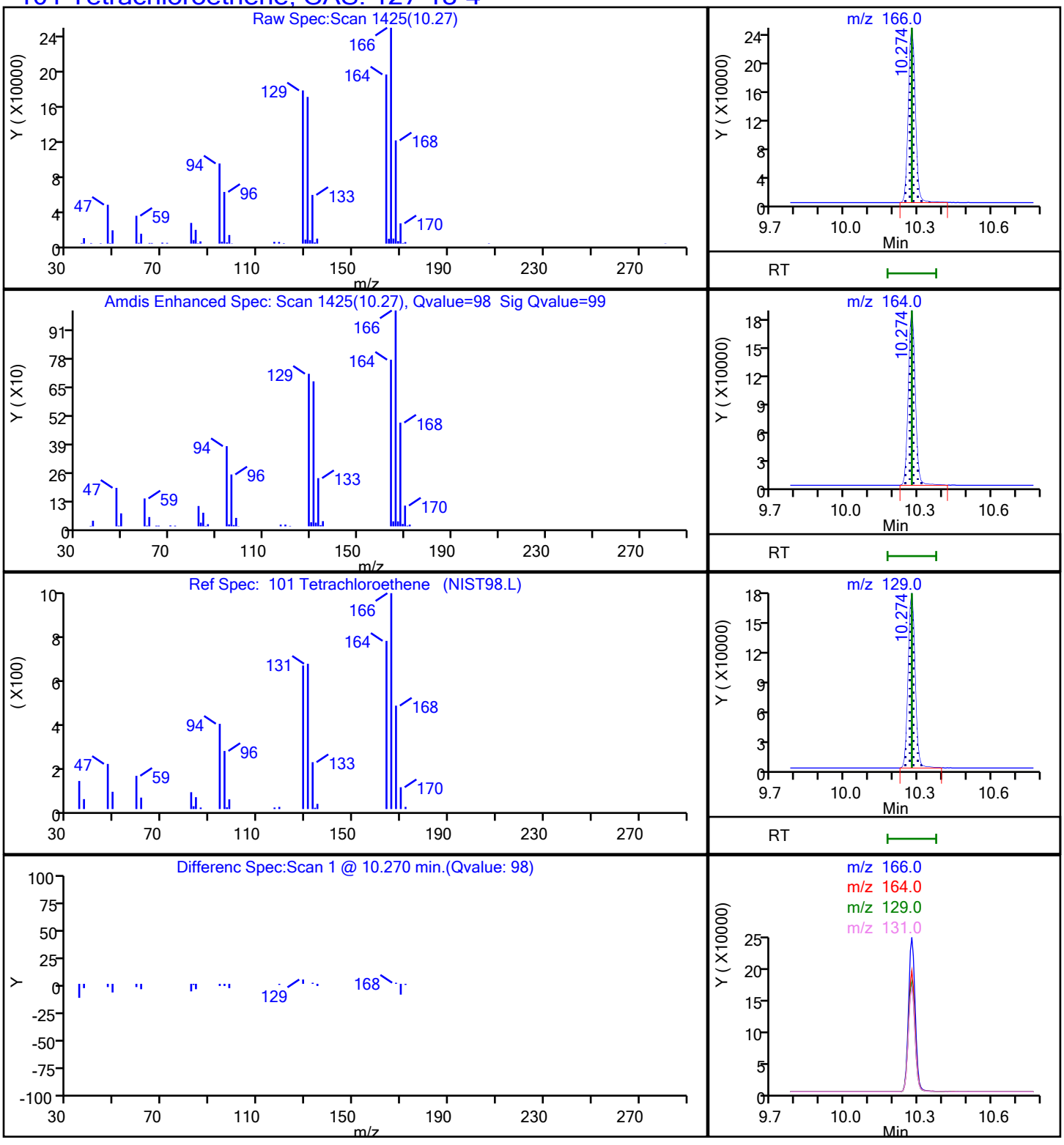
First Level Reviewer: changnoit Date: 09-Nov-2022 14:52:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	9.73	97.31
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.19
$ 78 Toluene-d8 (Surr)	10.0	9.58	95.84
$ 120 4-Bromofluorobenzene (Surr)	10.0	9.41	94.10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08X22.D				
Injection Date:	08-Nov-2022 18:24:30	Instrument ID:	19930		
Lims ID:	410-103501-B-8 DL	Lab Sample ID:	410-103501-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	10.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

101 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-26-0/1-0 Lab Sample ID: 410-103501-9

Matrix: Water Lab File ID: GN06X17.D

Analysis Method: 8260D Date Collected: 10/27/2022 10:40

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 17:05

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	0.12	J	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND	^c cn	1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND	*+	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.49	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	3.1		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-26-0/1-0 Lab Sample ID: 410-103501-9

Matrix: Water Lab File ID: GN06X17.D

Analysis Method: 8260D Date Collected: 10/27/2022 10:40

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 17:05

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.16	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		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\16334\20221106-70453.b\GN06X17.D
Lims ID: 410-103501-A-9
Client ID: HD-COD-SW-26-0/1-0
Sample Type: Client
Inject. Date: 06-Nov-2022 17:05:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070453-018
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Nov-2022 21:15:32 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

First Level Reviewer: USEJ Date: 07-Nov-2022 21:14:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.087				ND	
6 Vinyl chloride	62		2.203				ND	
9 Bromomethane	94		2.526				ND	
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96	3.440	3.422	0.018	95	4371	0.1163	
20 Acetone	43	3.501	3.471	0.030	62	4501	0.6417	
23 Carbon disulfide	76		3.708				ND	7
29 Methylene Chloride	84		4.062				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.153	4.135	0.018	34	138344	50.0	
33 Methyl tert-butyl ether	73		4.458				ND	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63		5.129				ND	
41 2-Butanone (MEK)	43		5.946				ND	
42 cis-1,2-Dichloroethene	96		5.976				ND	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.458	6.458	0.000	92	37633	0.4922	
$ 52 Dibromofluoromethane (Surr)	113	6.683	6.671	0.012	94	448487	10.3	
53 1,1,1-Trichloroethane	97	6.689	6.677	0.012	35	2263	0.0339	
56 Carbon tetrachloride	117		6.891				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.135	7.122	0.013	63	97872	10.6	
60 Benzene	78		7.159				ND	
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.573	7.567	0.006	99	1745534	10.0	
68 Trichloroethene	95	8.049	8.043	0.006	95	7660	0.1570	M
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	7
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	
$ 83 Toluene-d8 (Surr)	98	9.597	9.597	0.000	93	1739736	9.98	
84 Toluene	92	9.677	9.671	0.006	98	3478	0.0295	
85 trans-1,3-Dichloropropene	75		9.939				ND	
106 1,1,2-Trichloroethane	97		10.140				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.231	10.231	0.000	96	183224	3.08	
109 2-Hexanone	43		10.366				ND	
111 Chlorodibromomethane	129		10.524				ND	
112 Ethylene Dibromide	107		10.634				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	84	1360701	10.0	
115 Chlorobenzene	112		11.097				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
116 Ethylbenzene	91		11.182				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.298				ND	7
120 o-Xylene	106		11.628				ND	7
121 Styrene	104		11.640				ND	
122 Bromoform	173		11.798				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.073	12.066	0.007	95	623807	9.62	
127 1,1,2,2-Tetrachloroethane	83		12.176				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.950	12.944	0.006	94	791741	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

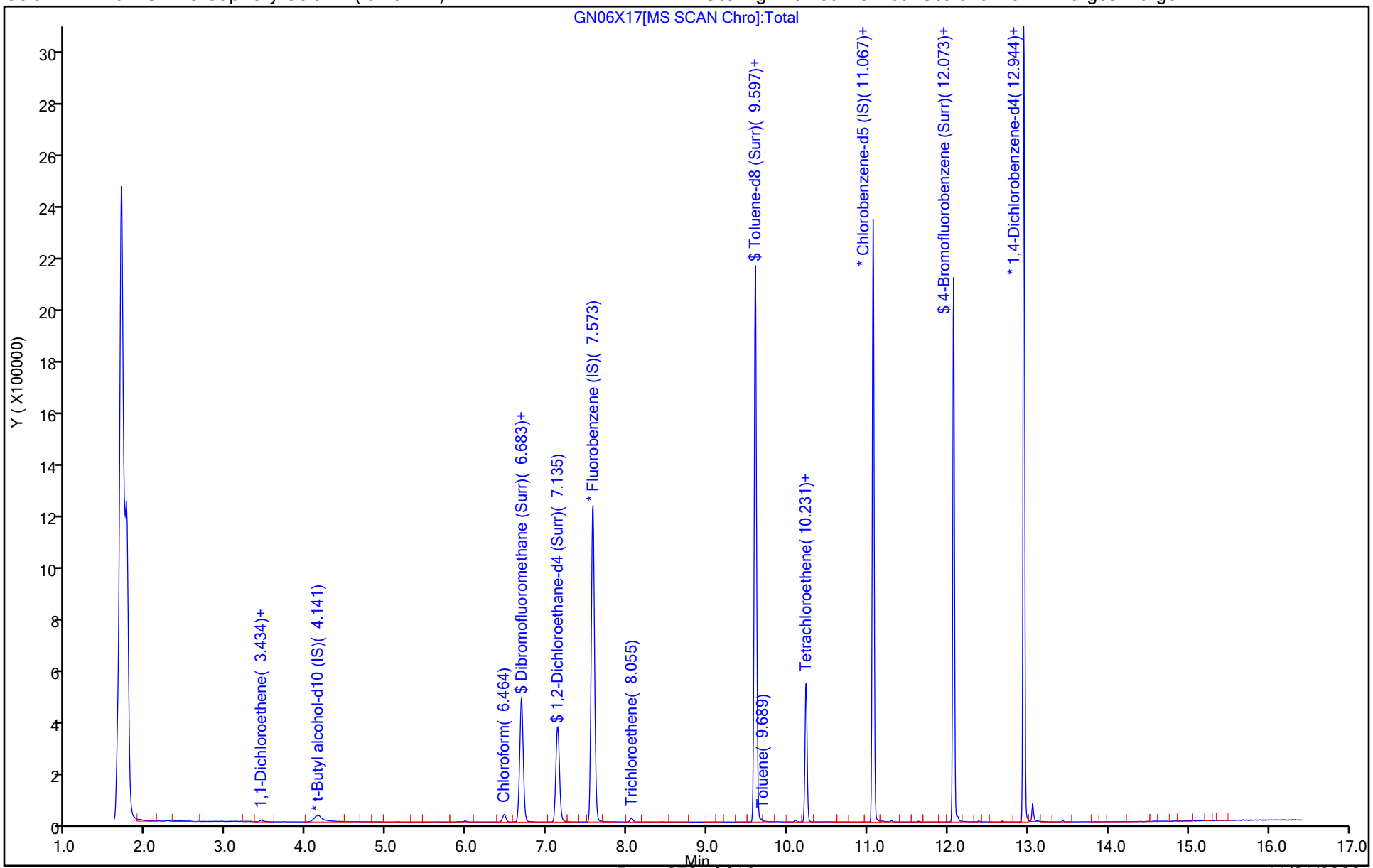
MSV_29_826ISS_00039 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 07-Nov-2022 21:16:01 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X17.D				
Injection Date:	06-Nov-2022 17:05:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-103501-A-9	Lab Sample ID:	410-103501-9	Worklist Smp#:	18
Client ID:	HD-COD-SW-26-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



11/21/2022
12:36 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X17.D				
Lims ID:	410-103501-A-9				
Client ID:	HD-COD-SW-26-0/1-0				
Sample Type:	Client				
Inject. Date:	06-Nov-2022 17:05:30	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0070453-018				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Nov-2022 21:15:32	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1606				

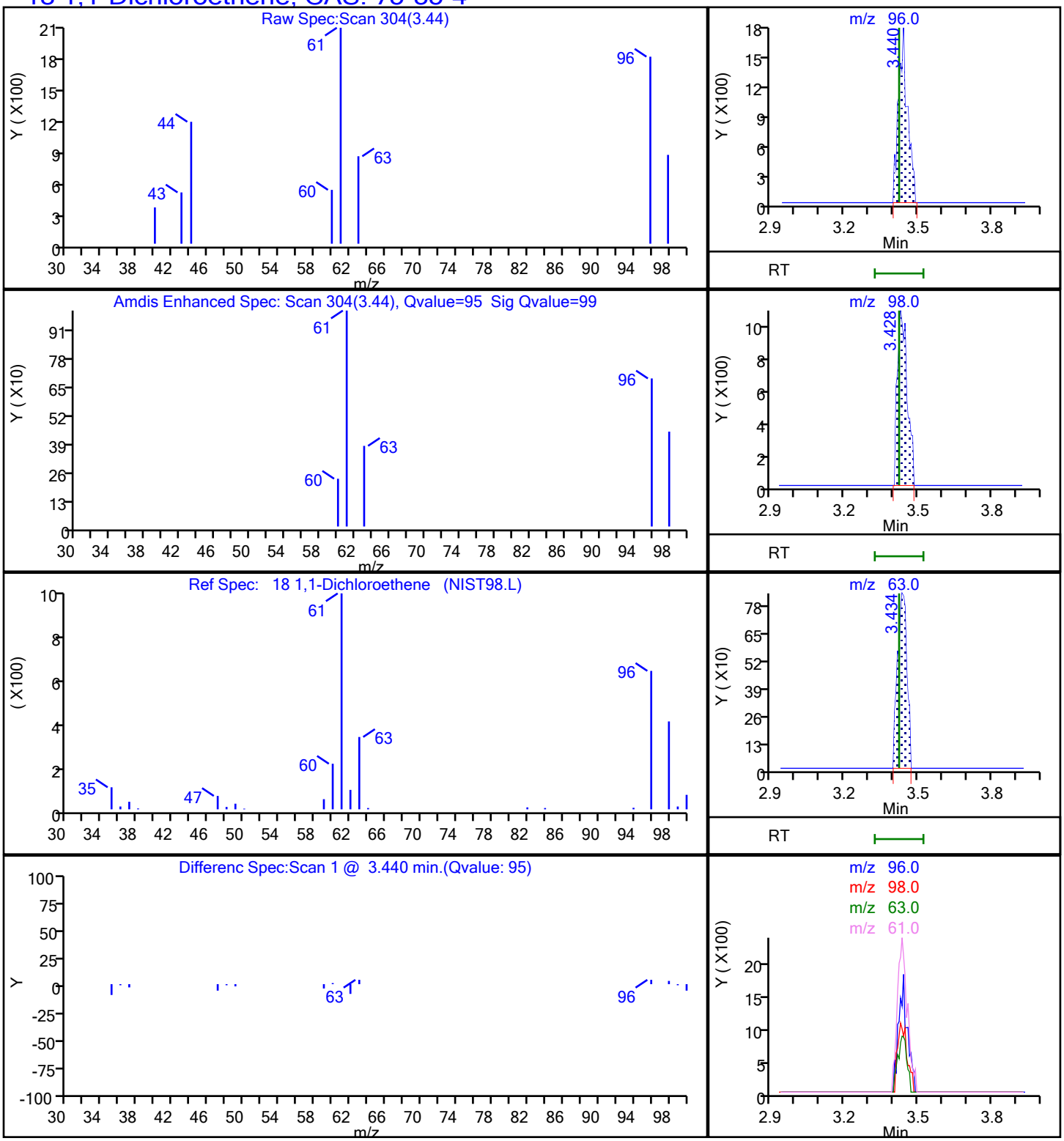
First Level Reviewer: USEJ Date: 07-Nov-2022 21:14:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	103.49
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	106.34
$ 83 Toluene-d8 (Surr)	10.0	9.98	99.84
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.62	96.18

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X17.D				
Injection Date:	06-Nov-2022 17:05:30	Instrument ID:	16334		
Lims ID:	410-103501-A-9	Lab Sample ID:	410-103501-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

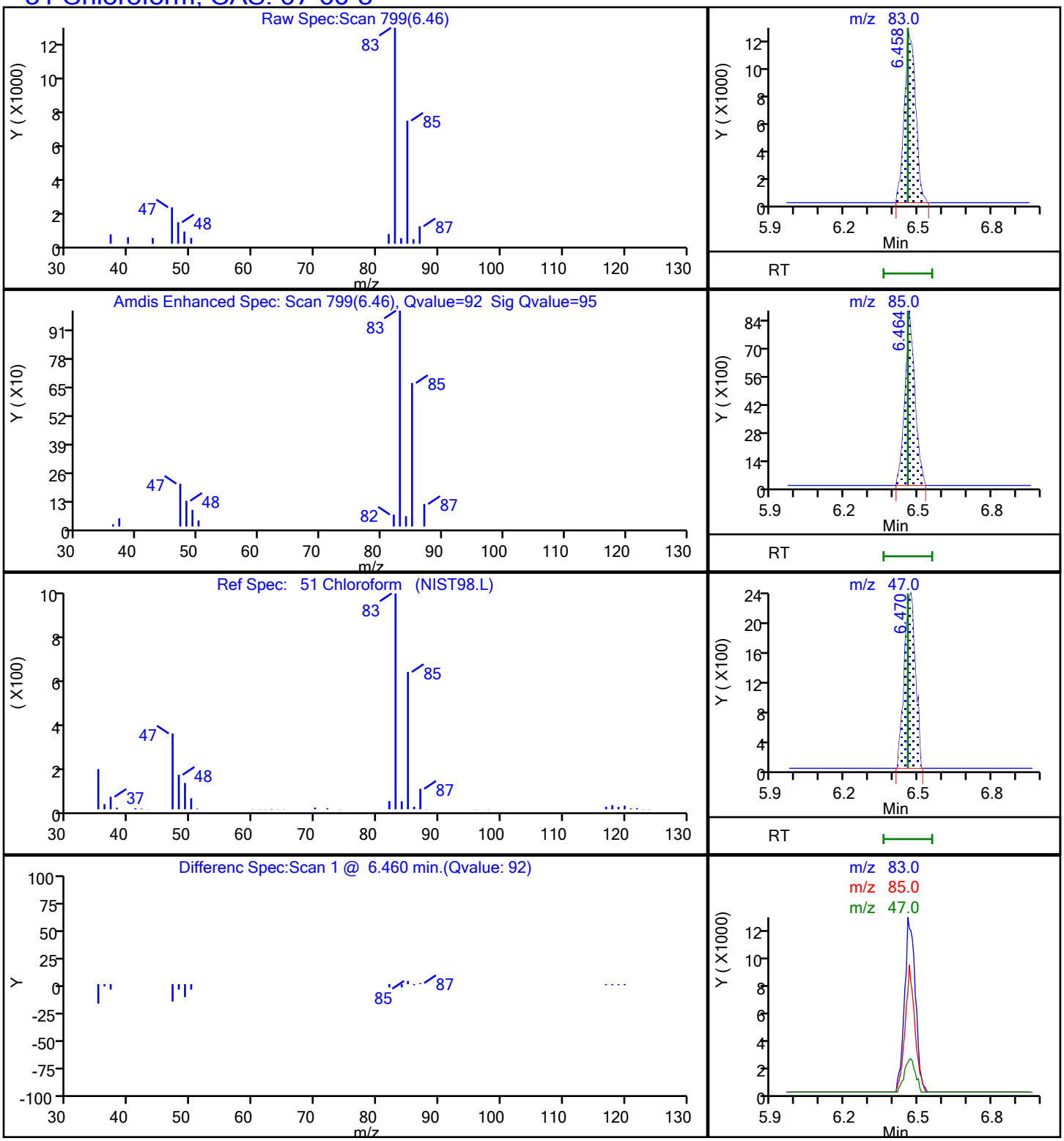
18 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X17.D				
Injection Date:	06-Nov-2022 17:05:30	Instrument ID:	16334		
Lims ID:	410-103501-A-9	Lab Sample ID:	410-103501-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

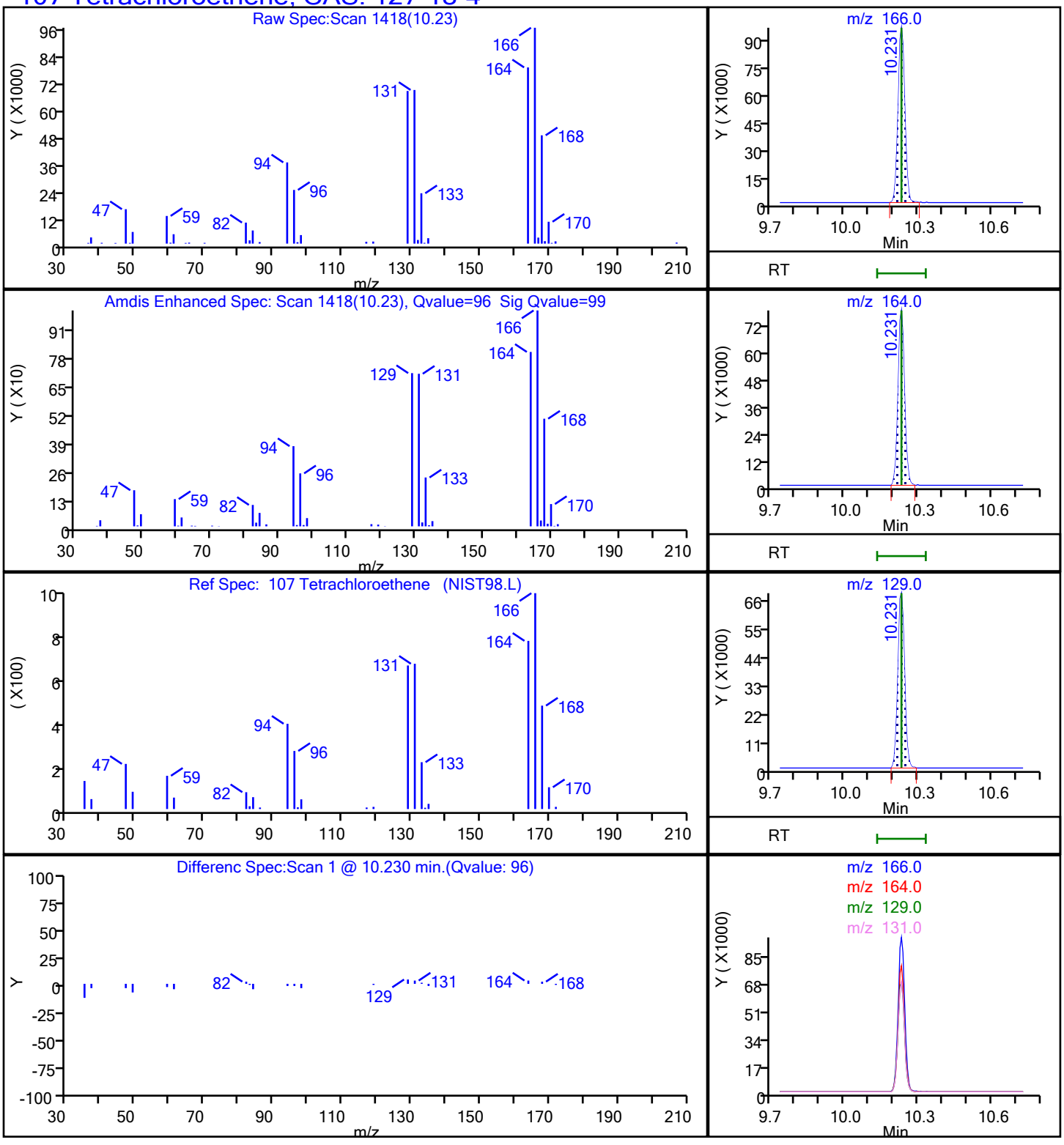
51 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X17.D				
Injection Date:	06-Nov-2022 17:05:30	Instrument ID:	16334		
Lims ID:	410-103501-A-9	Lab Sample ID:	410-103501-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

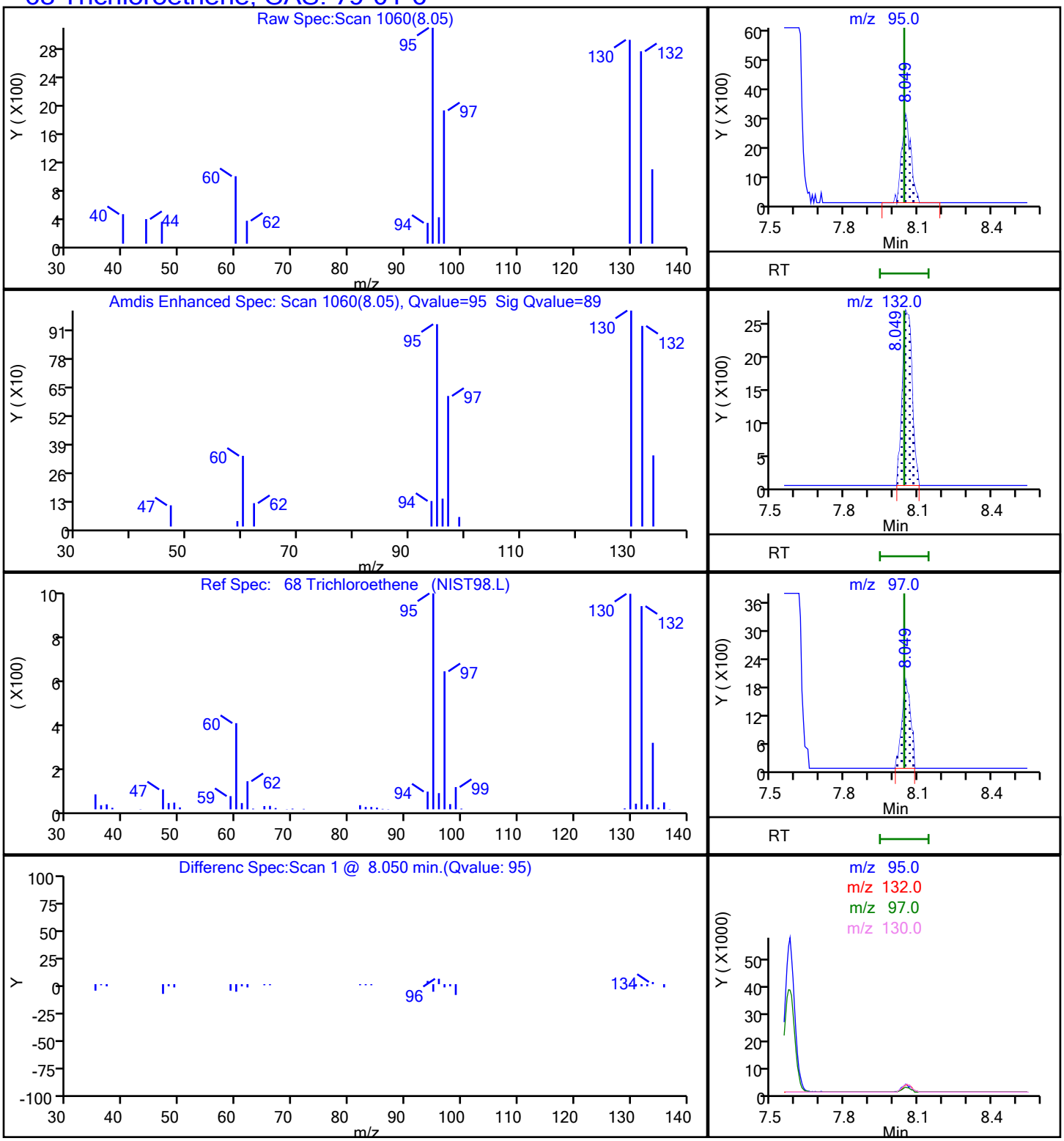
107 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X17.D				
Injection Date:	06-Nov-2022 17:05:30	Instrument ID:	16334		
Lims ID:	410-103501-A-9	Lab Sample ID:	410-103501-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

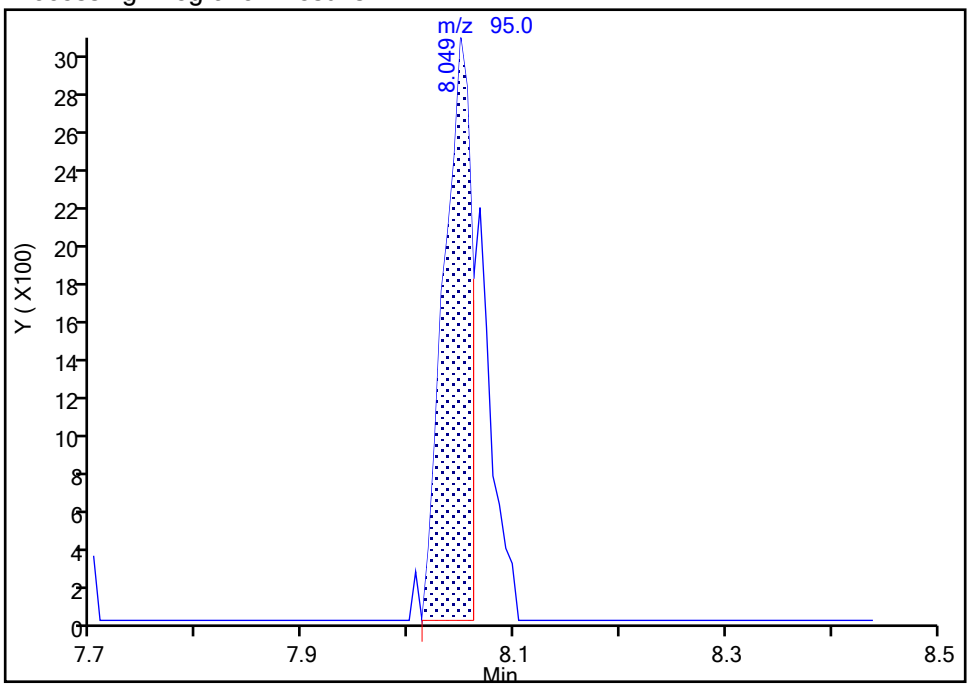
Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X17.D				
Injection Date:	06-Nov-2022 17:05:30	Instrument ID:	16334		
Lims ID:	410-103501-A-9	Lab Sample ID:	410-103501-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6

Signal: 1

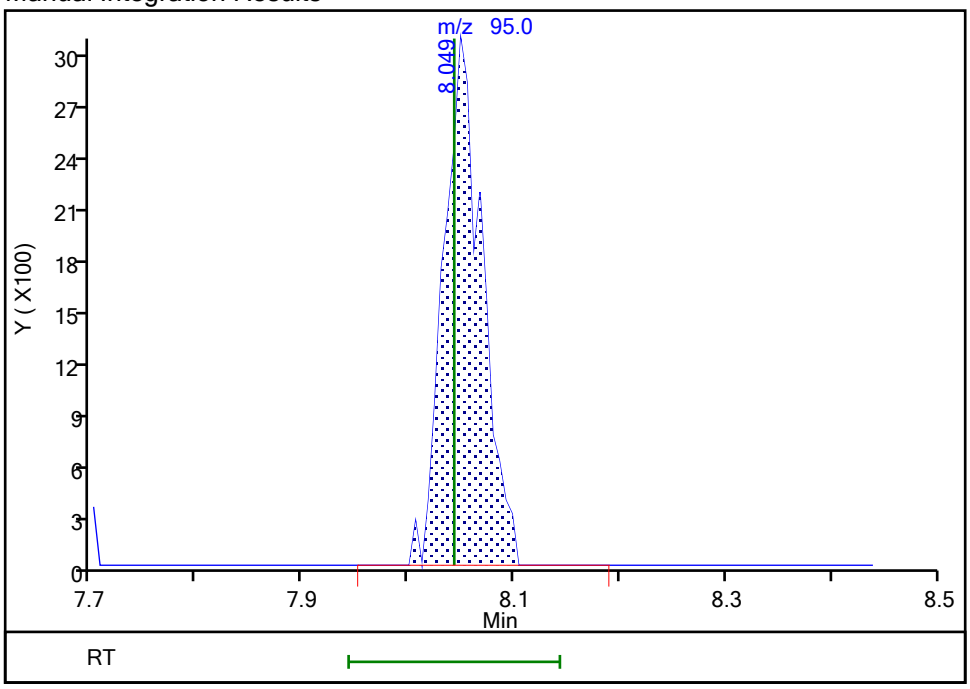
Processing Integration Results

RT: 8.05
Area: 5491
Amount: 0.112525
Amount Units: ug/l



Manual Integration Results

RT: 8.05
Area: 7660
Amount: 0.156973
Amount Units: ug/l



Reviewer: USEJ, 07-Nov-2022 21:14:24

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.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-27-0/1-0 Lab Sample ID: 410-103501-10

Matrix: Water Lab File ID: GN06X18.D

Analysis Method: 8260D Date Collected: 10/27/2022 11:10

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 17:27

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.5	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND	^c cn	1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND	*+	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.23	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.56		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-27-0/1-0 Lab Sample ID: 410-103501-10

Matrix: Water Lab File ID: GN06X18.D

Analysis Method: 8260D Date Collected: 10/27/2022 11:10

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 17:27

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.24	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X18.D
Lims ID: 410-103501-A-10
Client ID: HD-COD-SW-27-0/1-0
Sample Type: Client
Inject. Date: 06-Nov-2022 17:27:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070453-019
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Nov-2022 21:15:32 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

First Level Reviewer: USEJ Date: 07-Nov-2022 21:14:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.087				ND	
6 Vinyl chloride	62		2.203				ND	
9 Bromomethane	94		2.526				ND	
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96		3.422				ND	
20 Acetone	43	3.483	3.471	0.012	100	18359	2.52	
23 Carbon disulfide	76	3.715	3.708	0.007	98	8839	0.0941	
29 Methylene Chloride	84		4.062				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.135	4.135	0.000	34	143758	50.0	
33 Methyl tert-butyl ether	73		4.458				ND	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63		5.129				ND	
41 2-Butanone (MEK)	43		5.946				ND	
42 cis-1,2-Dichloroethene	96	5.982	5.976	0.006	73	11341	0.2308	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83		6.458				ND	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	94	456327	10.3	
53 1,1,1-Trichloroethane	97		6.677				ND	7
56 Carbon tetrachloride	117		6.891				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.129	7.122	0.007	63	101261	10.7	
60 Benzene	78		7.159				ND	
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.567	0.000	99	1787045	10.0	
68 Trichloroethene	95	8.043	8.043	0.000	95	12228	0.2448	
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	
$ 83 Toluene-d8 (Surr)	98	9.598	9.597	0.001	93	1785740	10.1	
84 Toluene	92	9.677	9.671	0.006	98	3880	0.0324	
85 trans-1,3-Dichloropropene	75		9.939				ND	
106 1,1,2-Trichloroethane	97		10.140				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.232	10.231	0.001	97	34083	0.5649	
109 2-Hexanone	43		10.366				ND	
111 Chlorodibromomethane	129		10.524				ND	
112 Ethylene Dibromide	107		10.634				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	84	1381079	10.0	
115 Chlorobenzene	112		11.097				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
116 Ethylbenzene	91		11.182				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.298				ND	7
120 o-Xylene	106		11.628				ND	7
121 Styrene	104		11.640				ND	
122 Bromoform	173		11.798				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.073	12.066	0.007	96	631056	9.59	
127 1,1,2,2-Tetrachloroethane	83		12.176				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	94	806052	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

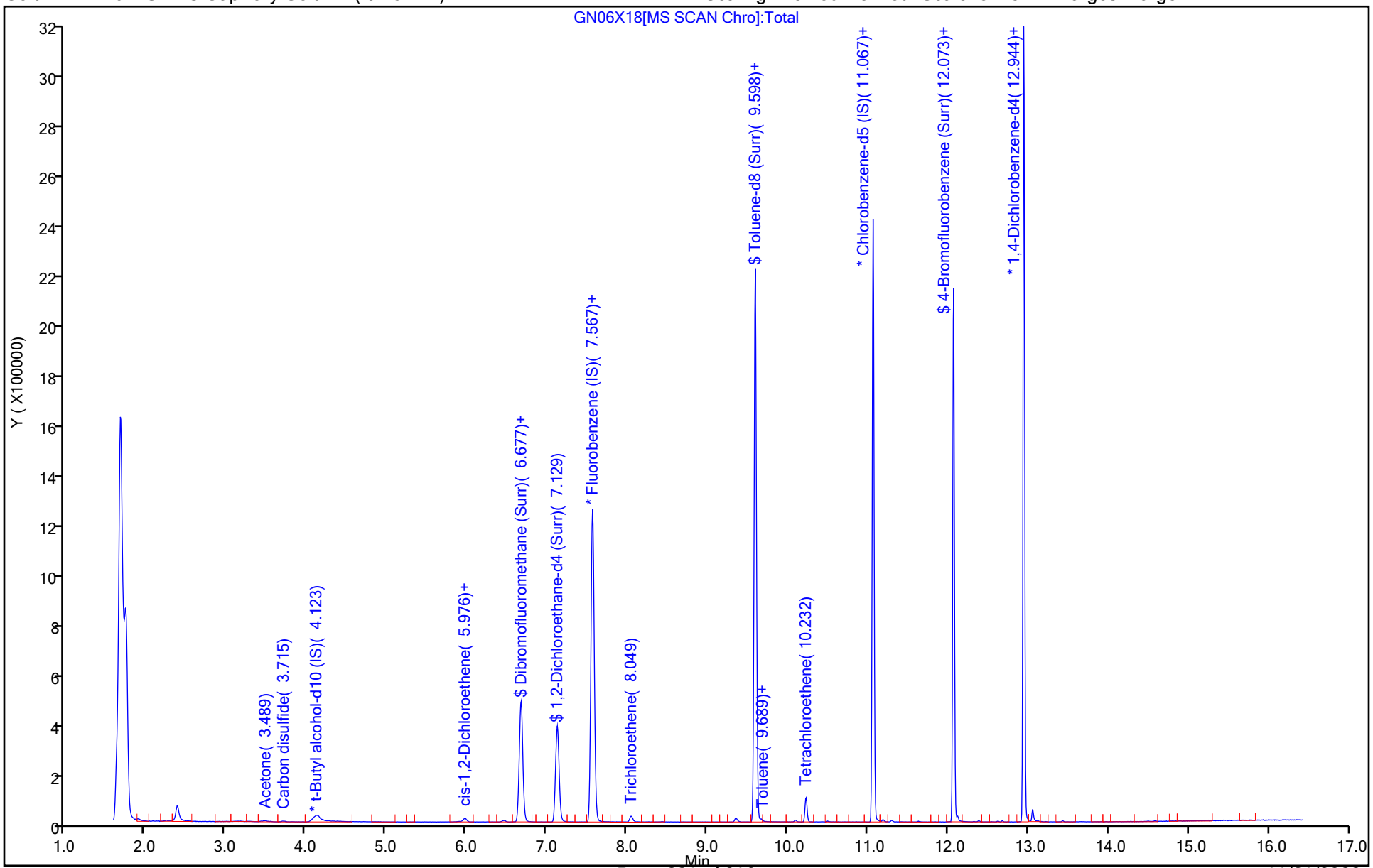
MSV_29_826ISS_00039 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 07-Nov-2022 21:16:02 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X18.D				
Injection Date:	06-Nov-2022 17:27:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-103501-A-10	Lab Sample ID:	410-103501-10	Worklist Smp#:	19
Client ID:	HD-COD-SW-27-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X18.D				
Lims ID:	410-103501-A-10				
Client ID:	HD-COD-SW-27-0/1-0				
Sample Type:	Client				
Inject. Date:	06-Nov-2022 17:27:30	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0070453-019				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Nov-2022 21:15:32	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1606				

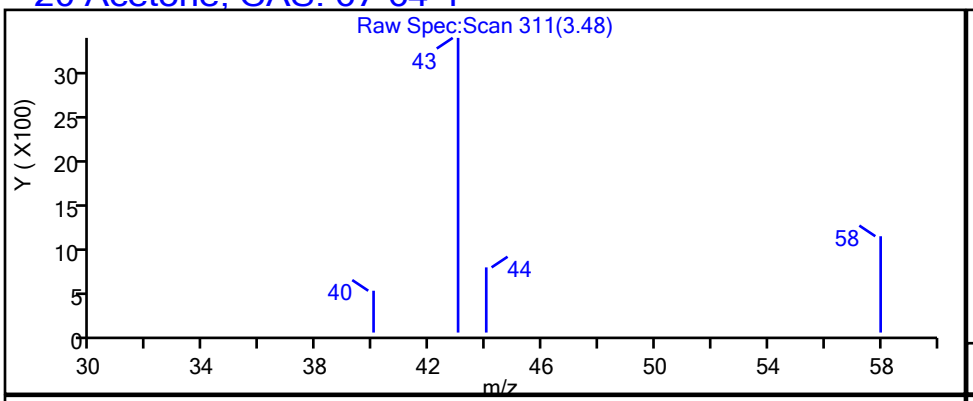
First Level Reviewer: USEJ Date: 07-Nov-2022 21:14:56

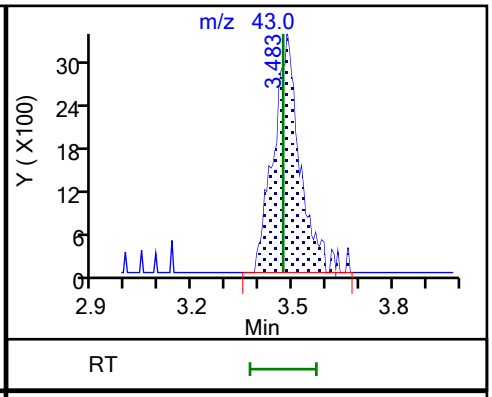
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	102.85
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.7	107.46
$ 83 Toluene-d8 (Surr)	10.0	10.1	100.97
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.59	95.86

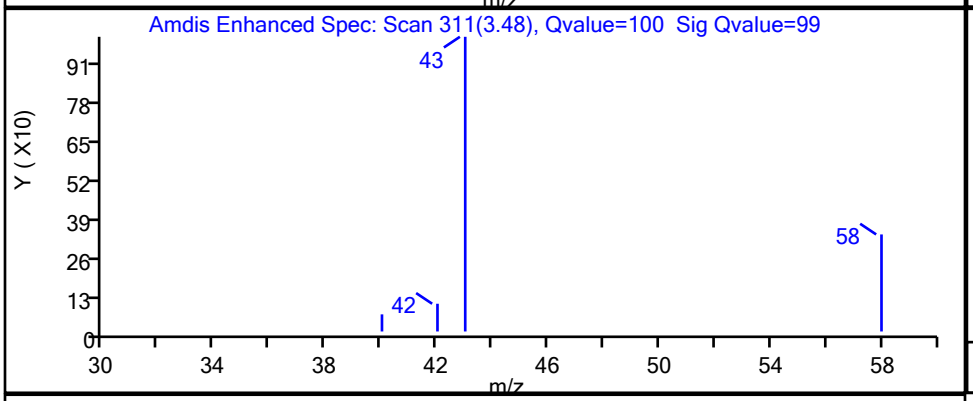
Eurofins Lancaster Laboratories Environment Testing, LLC

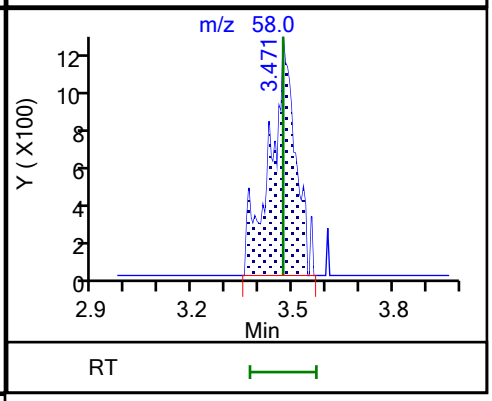
Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X18.D				
Injection Date:	06-Nov-2022 17:27:30	Instrument ID:	16334		
Lims ID:	410-103501-A-10	Lab Sample ID:	410-103501-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

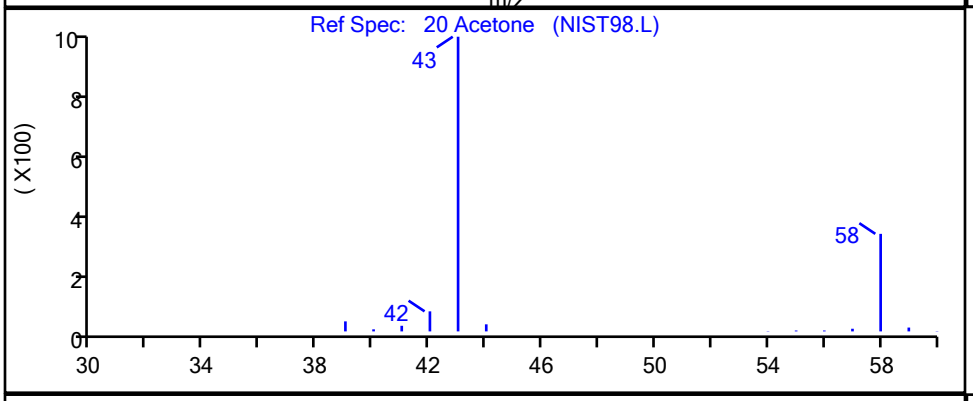
20 Acetone, CAS: 67-64-1

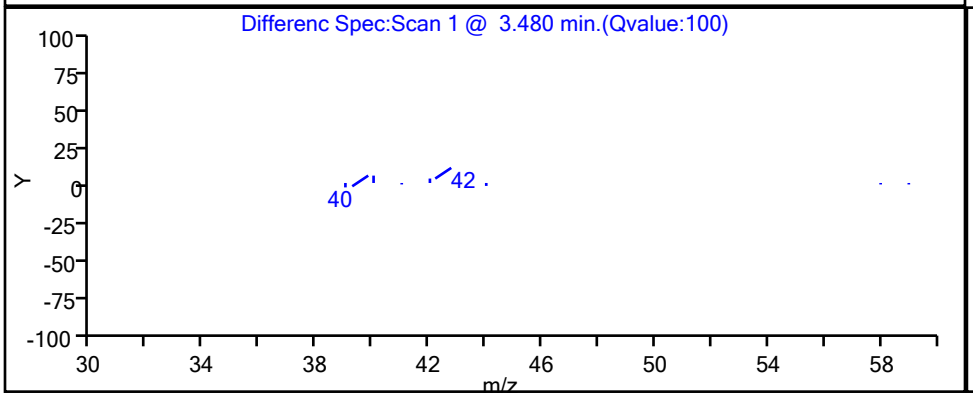


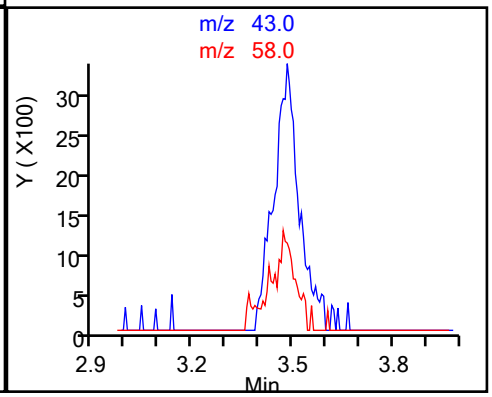








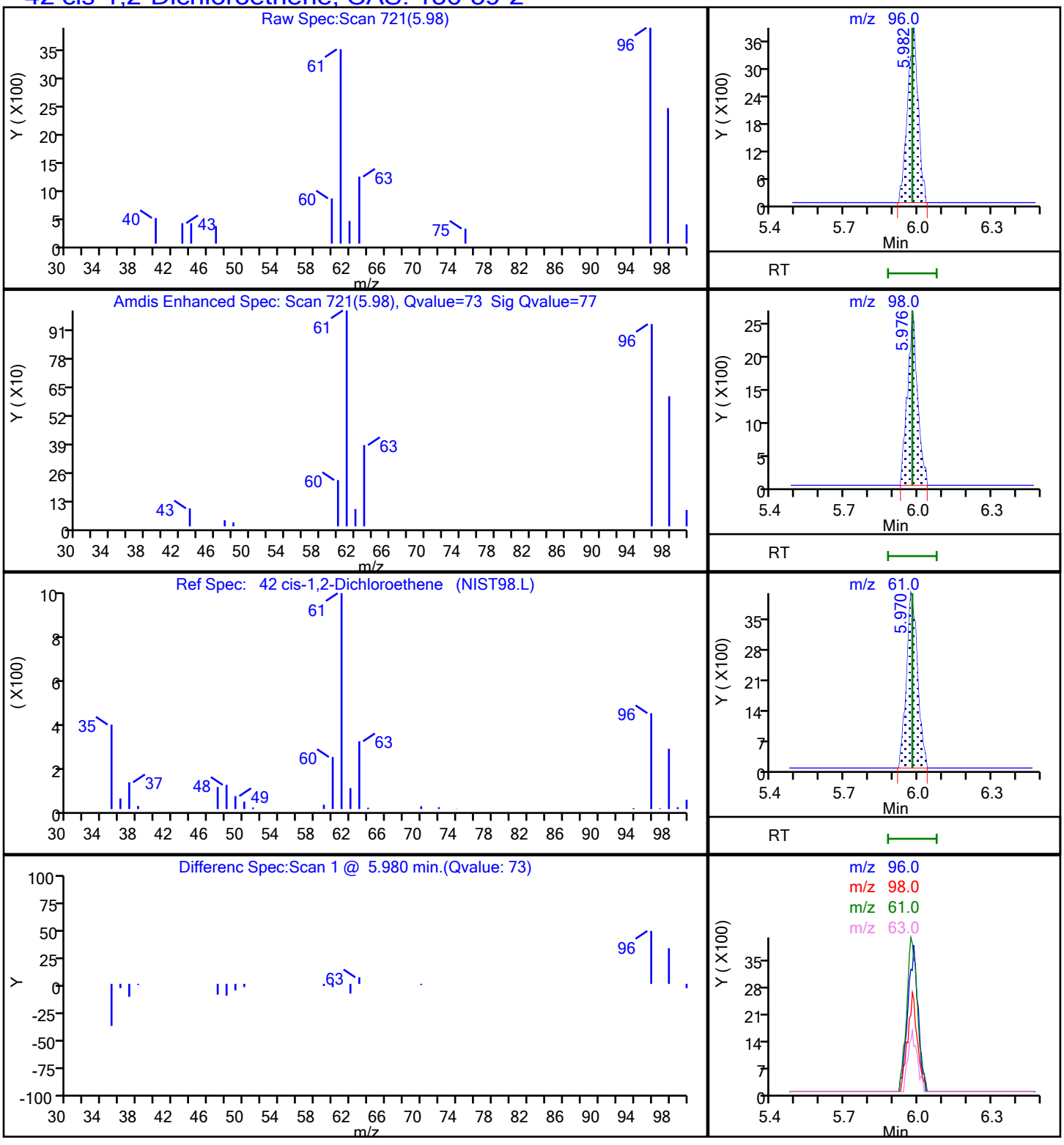




Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X18.D				
Injection Date:	06-Nov-2022 17:27:30	Instrument ID:	16334		
Lims ID:	410-103501-A-10	Lab Sample ID:	410-103501-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

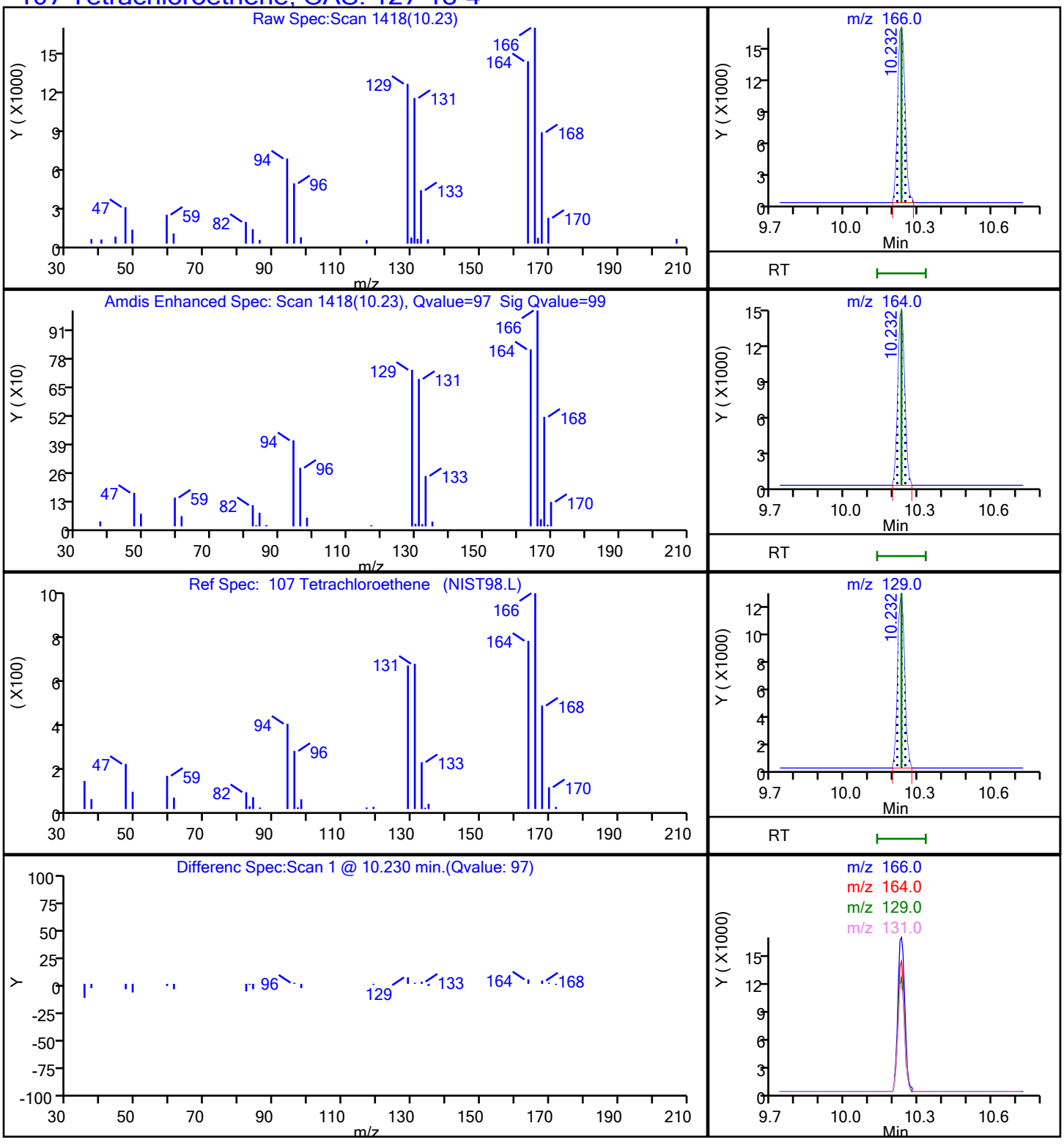


Report Date: 07-Nov-2022 21:16:02 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X18.D				
Injection Date:	06-Nov-2022 17:27:30	Instrument ID:	16334		
Lims ID:	410-103501-A-10	Lab Sample ID:	410-103501-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

107 Tetrachloroethene, CAS: 127-18-4



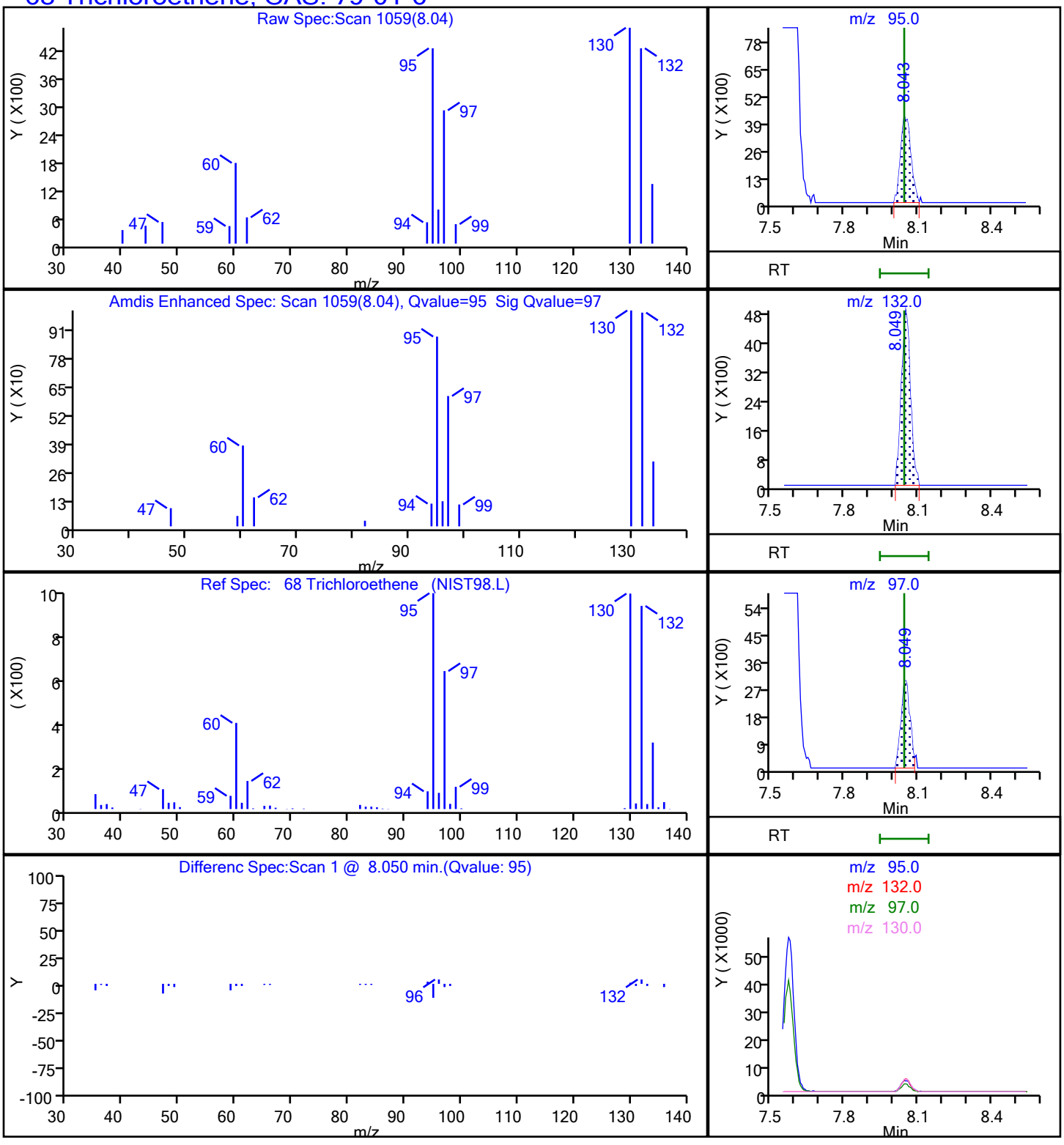
11/21/2022
12:36 PM

Report Date: 07-Nov-2022 21:16:02 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X18.D				
Injection Date:	06-Nov-2022 17:27:30	Instrument ID:	16334		
Lims ID:	410-103501-A-10	Lab Sample ID:	410-103501-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



11/21/2022
12:36 PM

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-28-0/1-0 Lab Sample ID: 410-103501-11

Matrix: Water Lab File ID: GN06X19.D

Analysis Method: 8260D Date Collected: 10/27/2022 13:00

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 17:49

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.8	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND	^c cn	1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	0.11	J *+ cn	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.17	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.26	J	0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-28-0/1-0 Lab Sample ID: 410-103501-11

Matrix: Water Lab File ID: GN06X19.D

Analysis Method: 8260D Date Collected: 10/27/2022 13:00

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 17:49

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.17	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X19.D
Lims ID: 410-103501-A-11
Client ID: HD-COD-SW-28-0/1-0
Sample Type: Client
Inject. Date: 06-Nov-2022 17:49:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070453-020
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Nov-2022 21:15:32 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

First Level Reviewer: USEJ Date: 07-Nov-2022 21:35:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.081	2.087	-0.006	95	4200	0.0839	
6 Vinyl chloride	62		2.203				ND	
9 Bromomethane	94		2.526				ND	7
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96		3.422				ND	
20 Acetone	43	3.489	3.471	0.018	99	16162	2.82	
23 Carbon disulfide	76	3.708	3.708	0.000	98	10019	0.1116	M
29 Methylene Chloride	84		4.062				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.135	4.135	0.000	34	113161	50.0	
33 Methyl tert-butyl ether	73		4.458				ND	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63		5.129				ND	
41 2-Butanone (MEK)	43		5.946				ND	
42 cis-1,2-Dichloroethene	96	5.976	5.976	0.000	0	7956	0.1694	M
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.464	6.458	0.006	89	5768	0.0771	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	94	438739	10.3	
53 1,1,1-Trichloroethane	97		6.677				ND	
56 Carbon tetrachloride	117		6.891				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.122	0.006	62	96078	10.7	
60 Benzene	78		7.159				ND	
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.567	0.000	99	1708583	10.0	
68 Trichloroethene	95	8.055	8.043	0.012	97	7958	0.1666	
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	7
$ 83 Toluene-d8 (Surr)	98	9.597	9.597	0.000	93	1740212	10.2	
84 Toluene	92	9.671	9.671	0.000	99	7434	0.0644	
85 trans-1,3-Dichloropropene	75		9.939				ND	
106 1,1,2-Trichloroethane	97		10.140				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.225	10.231	-0.006	96	15012	0.2582	
109 2-Hexanone	43		10.366				ND	
111 Chlorodibromomethane	129		10.524				ND	
112 Ethylene Dibromide	107		10.634				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	84	1330998	10.0	
115 Chlorobenzene	112		11.097				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
116 Ethylbenzene	91		11.182				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.298				ND	7
120 o-Xylene	106		11.628				ND	7
121 Styrene	104		11.640				ND	
122 Bromoform	173		11.798				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.073	12.066	0.007	96	604015	9.52	
127 1,1,2,2-Tetrachloroethane	83		12.176				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	94	775786	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

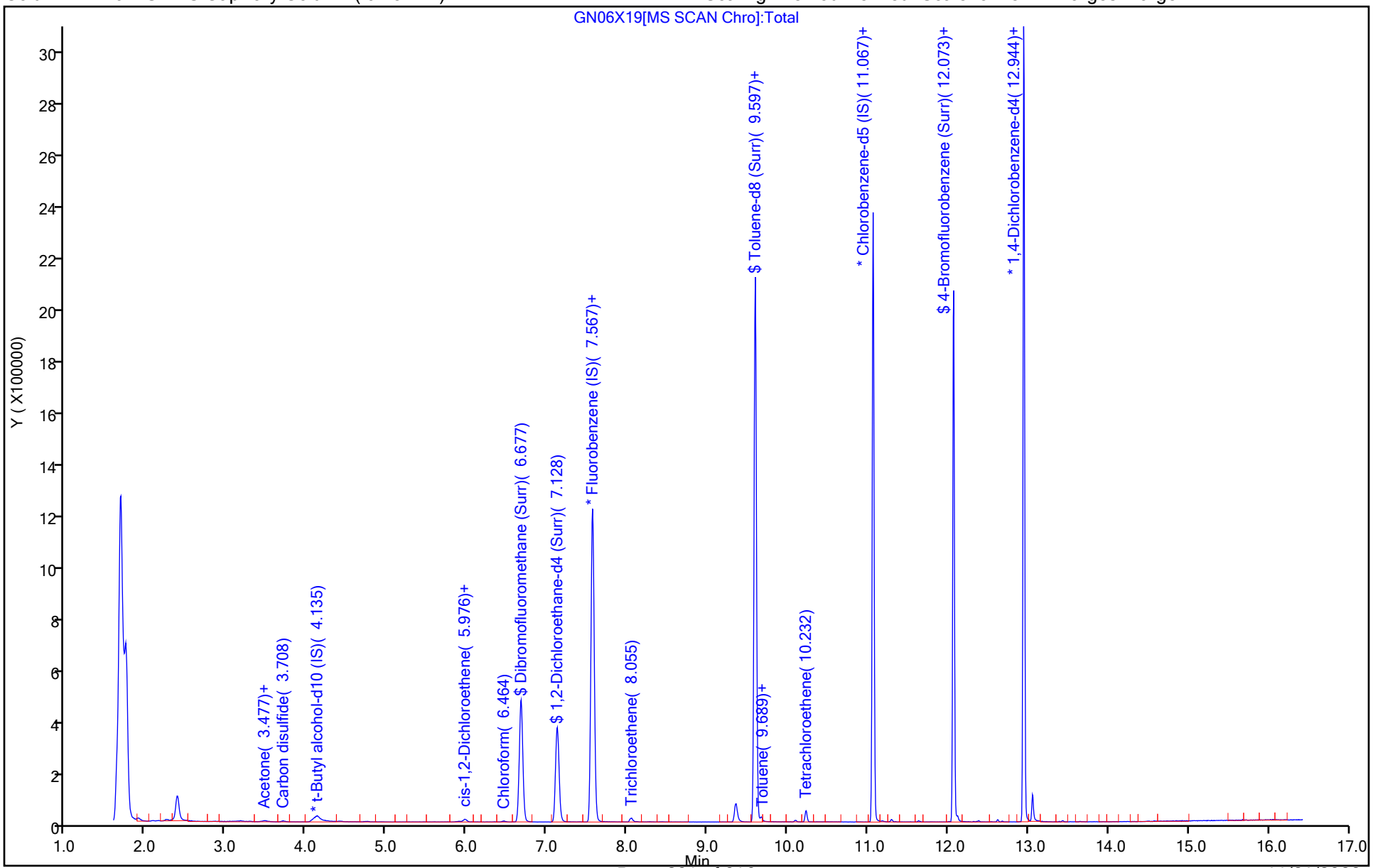
MSV_29_826ISS_00039 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 07-Nov-2022 21:35:29 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X19.D				
Injection Date:	06-Nov-2022 17:49:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-103501-A-11	Lab Sample ID:	410-103501-11	Worklist Smp#:	20
Client ID:	HD-COD-SW-28-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



11/21/2022
12:36 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X19.D				
Lims ID:	410-103501-A-11				
Client ID:	HD-COD-SW-28-0/1-0				
Sample Type:	Client				
Inject. Date:	06-Nov-2022 17:49:30	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0070453-020				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Nov-2022 21:15:32	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1606				

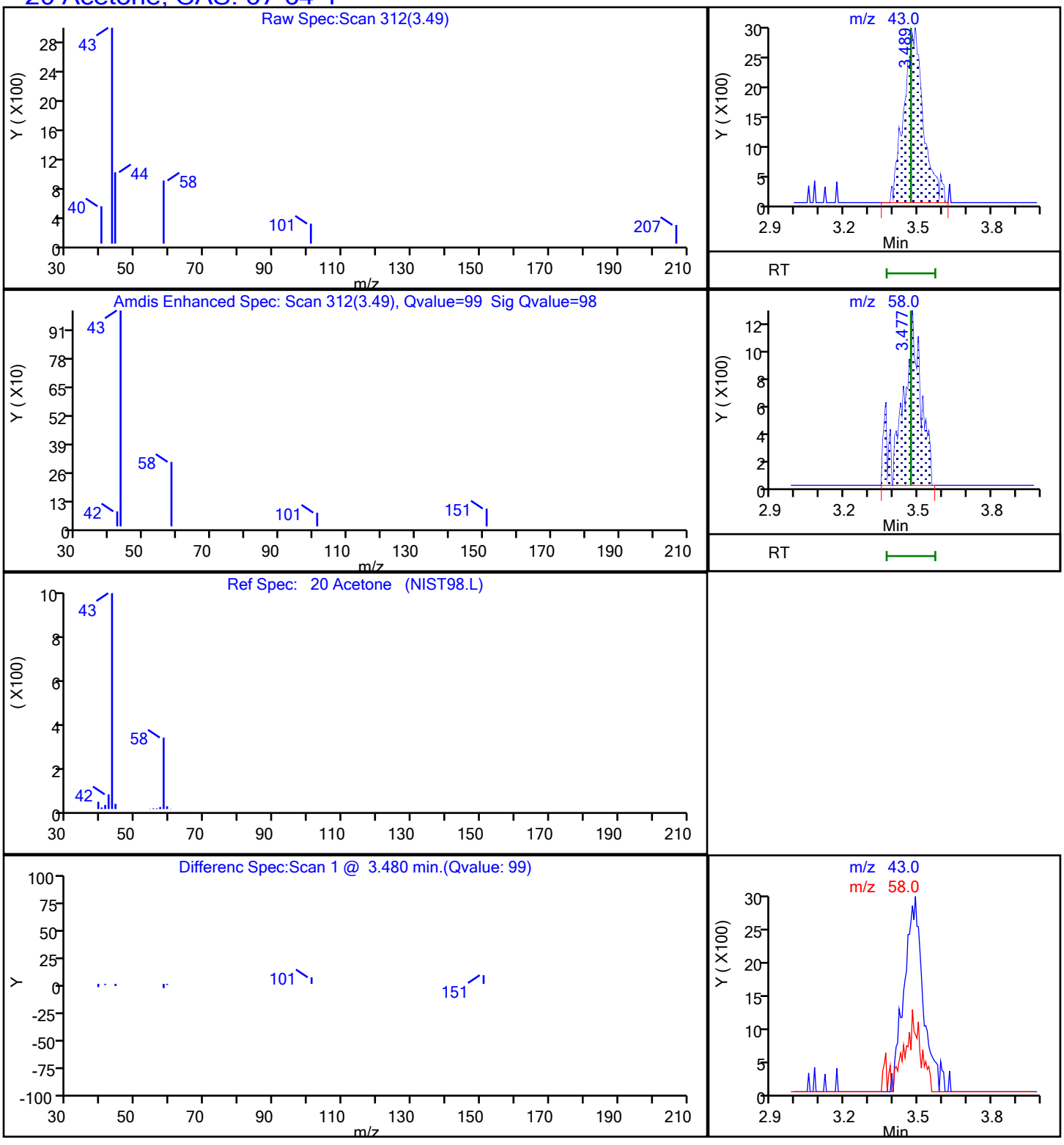
First Level Reviewer: USEJ Date: 07-Nov-2022 21:35:29

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	103.43
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.7	106.65
$ 83 Toluene-d8 (Surr)	10.0	10.2	102.09
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.52	95.20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X19.D				
Injection Date:	06-Nov-2022 17:49:30	Instrument ID:	16334		
Lims ID:	410-103501-A-11	Lab Sample ID:	410-103501-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

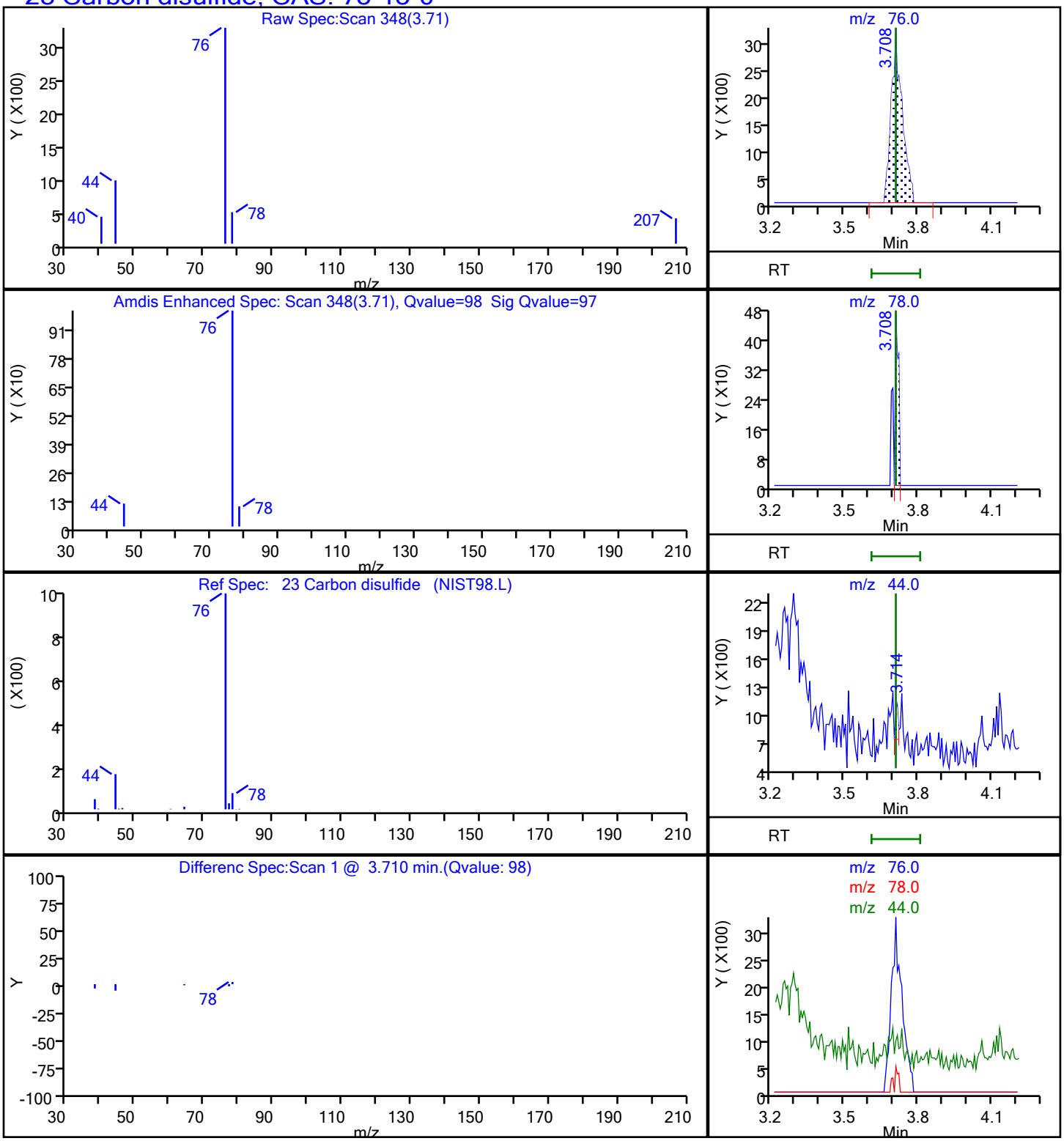
20 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X19.D				
Injection Date:	06-Nov-2022 17:49:30	Instrument ID:	16334		
Lims ID:	410-103501-A-11	Lab Sample ID:	410-103501-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

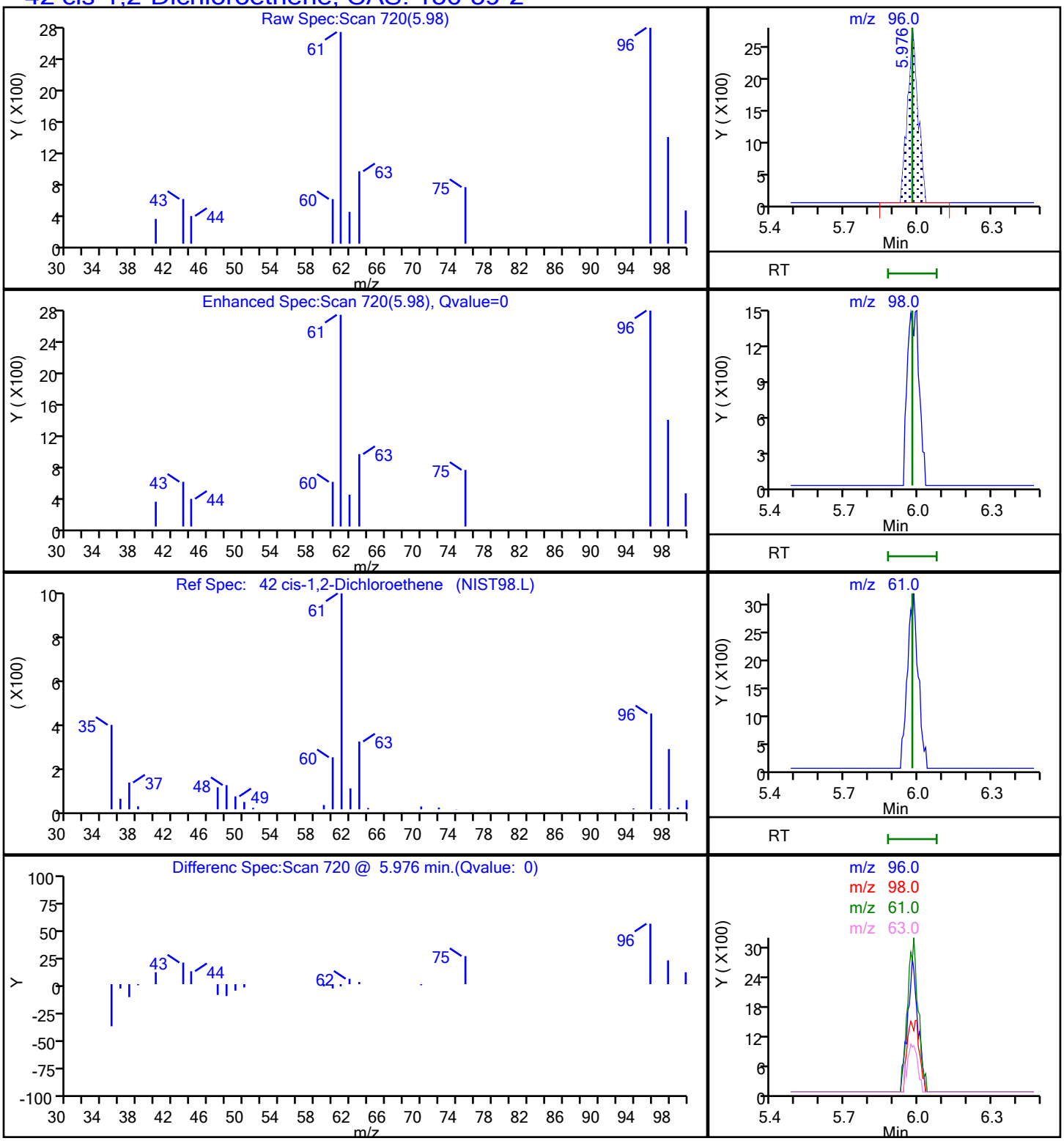
23 Carbon disulfide, CAS: 75-15-0



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X19.D				
Injection Date:	06-Nov-2022 17:49:30	Instrument ID:	16334		
Lims ID:	410-103501-A-11	Lab Sample ID:	410-103501-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

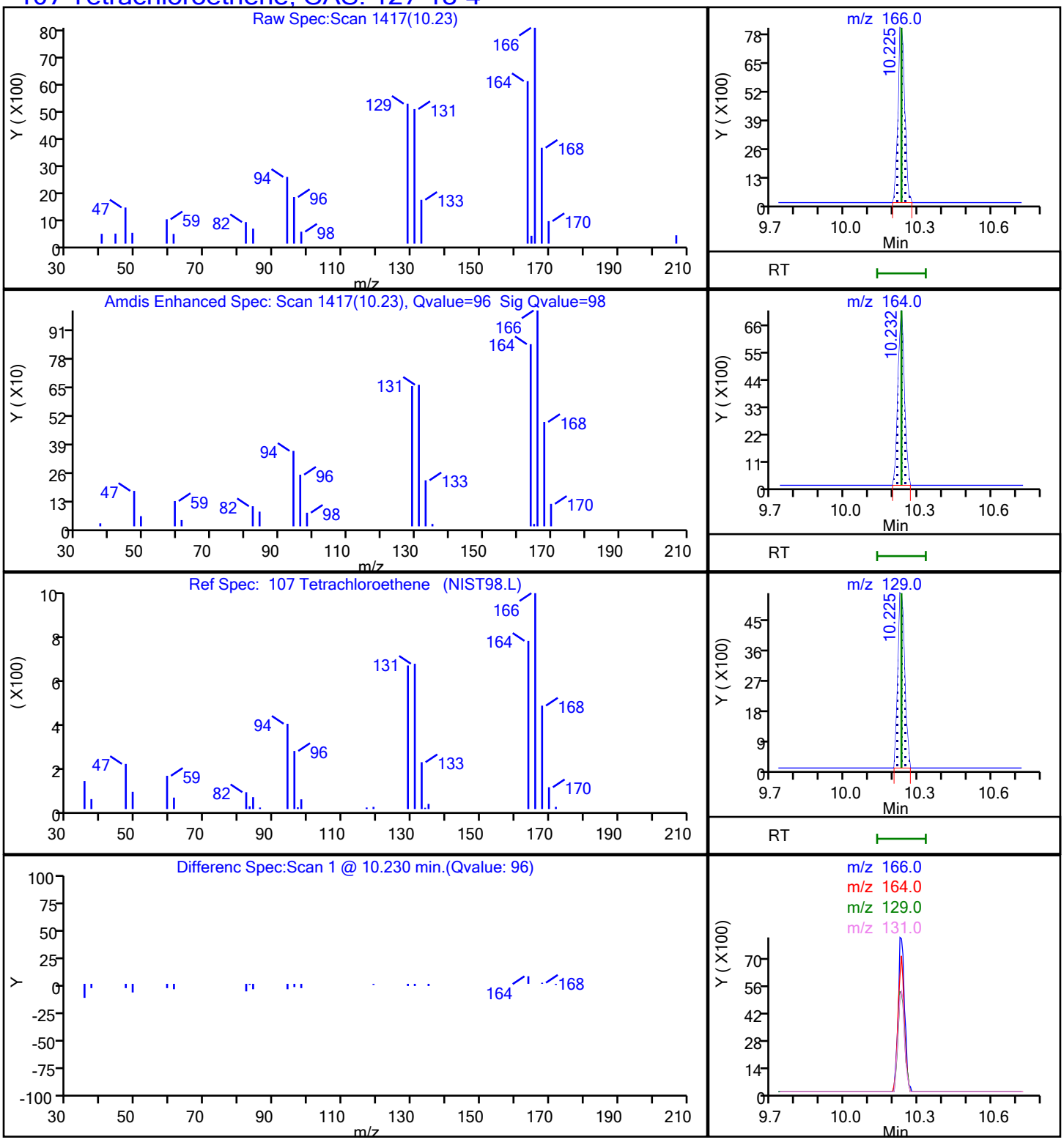
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X19.D				
Injection Date:	06-Nov-2022 17:49:30	Instrument ID:	16334		
Lims ID:	410-103501-A-11	Lab Sample ID:	410-103501-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

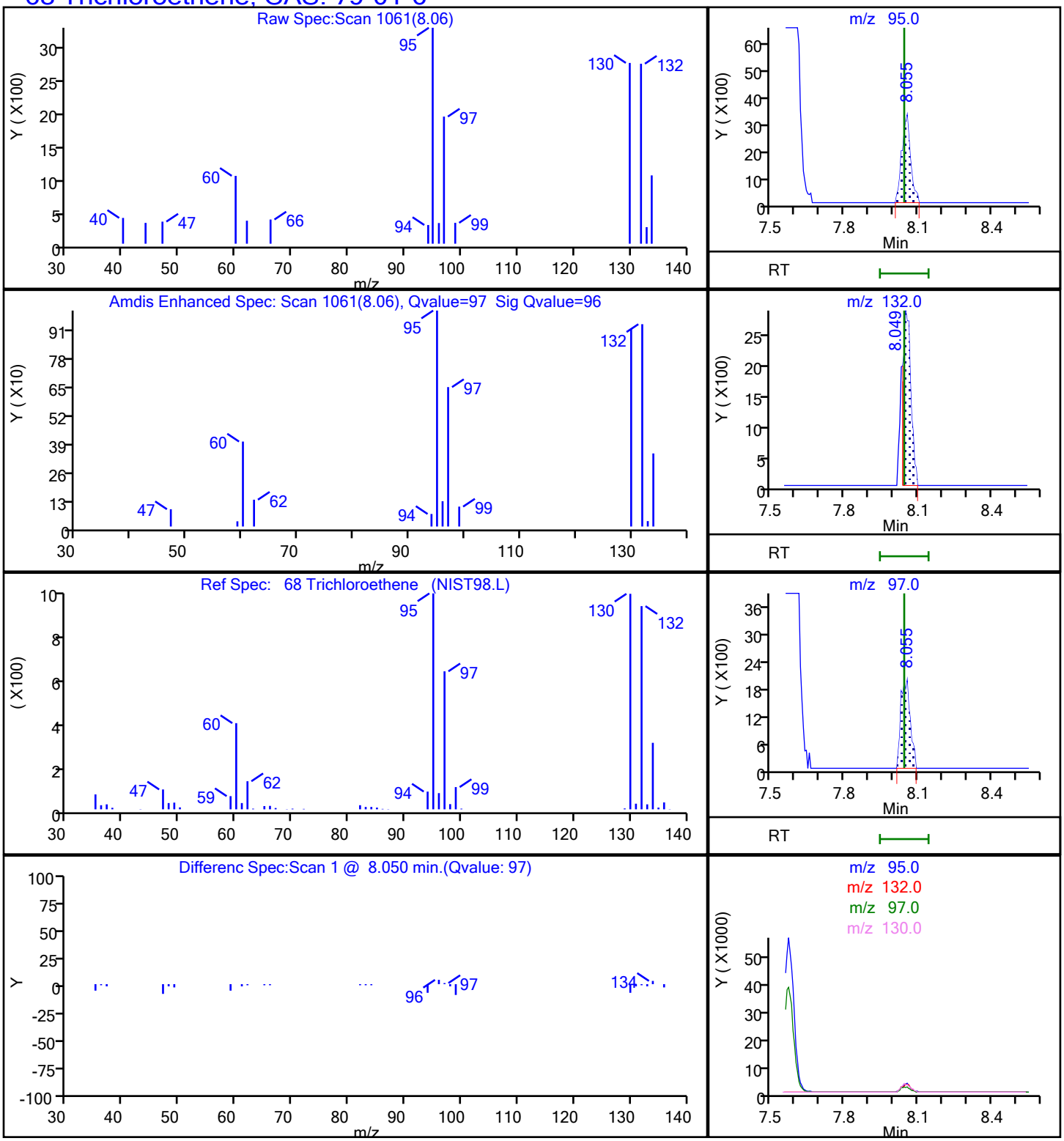
107 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X19.D				
Injection Date:	06-Nov-2022 17:49:30	Instrument ID:	16334		
Lims ID:	410-103501-A-11	Lab Sample ID:	410-103501-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

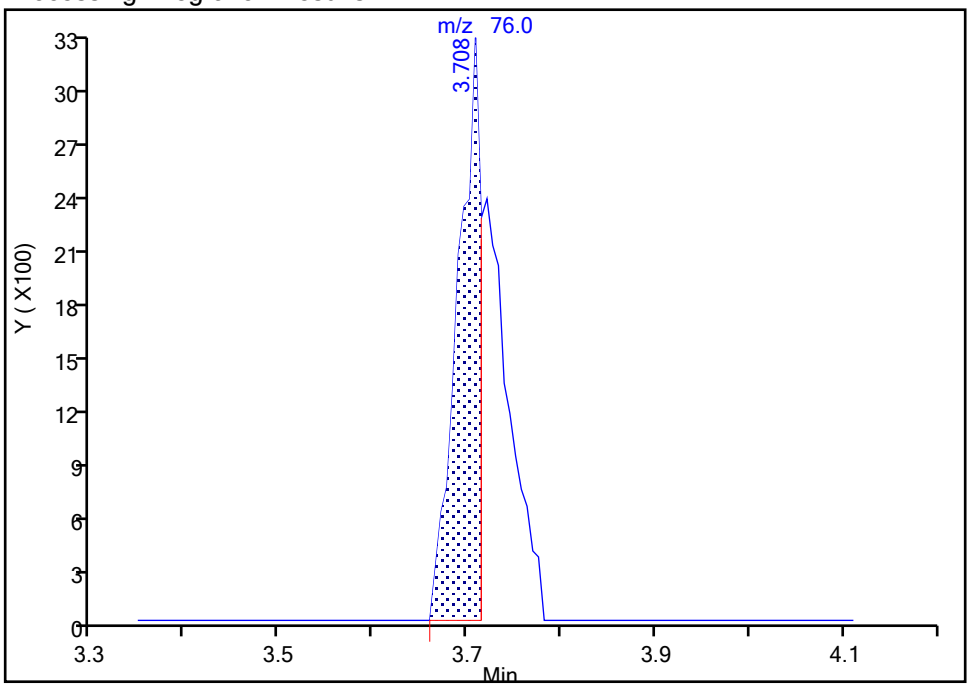
Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X19.D				
Injection Date:	06-Nov-2022 17:49:30	Instrument ID:	16334		
Lims ID:	410-103501-A-11	Lab Sample ID:	410-103501-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

23 Carbon disulfide, CAS: 75-15-0

Signal: 1

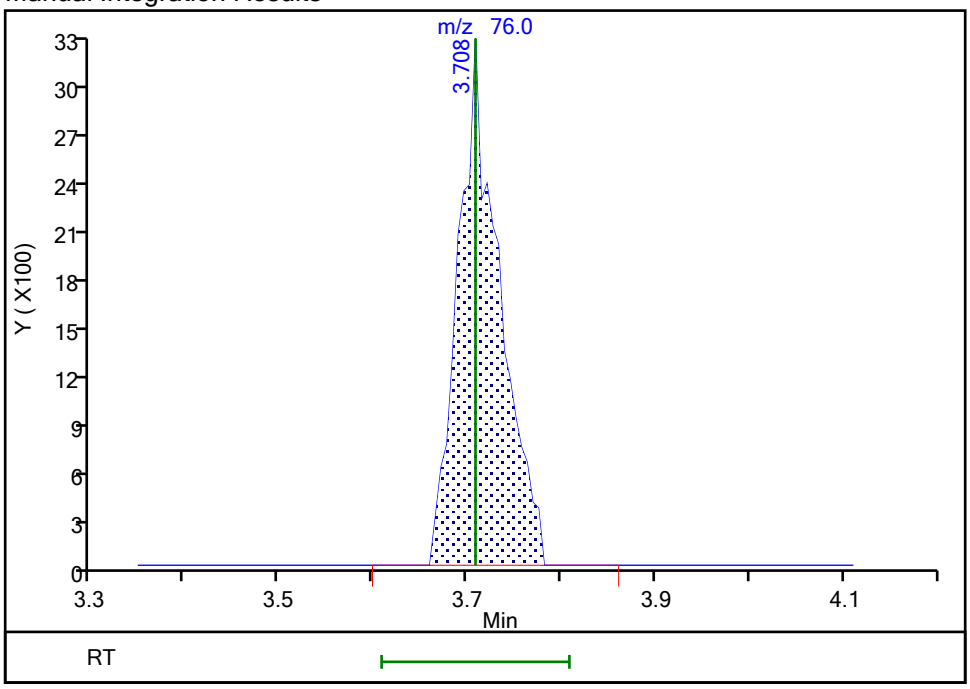
Processing Integration Results

RT: 3.71
Area: 5604
Amount: 0.062419
Amount Units: ug/l



Manual Integration Results

RT: 3.71
Area: 10019
Amount: 0.111594
Amount Units: ug/l



Reviewer: USEJ, 07-Nov-2022 21:15:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

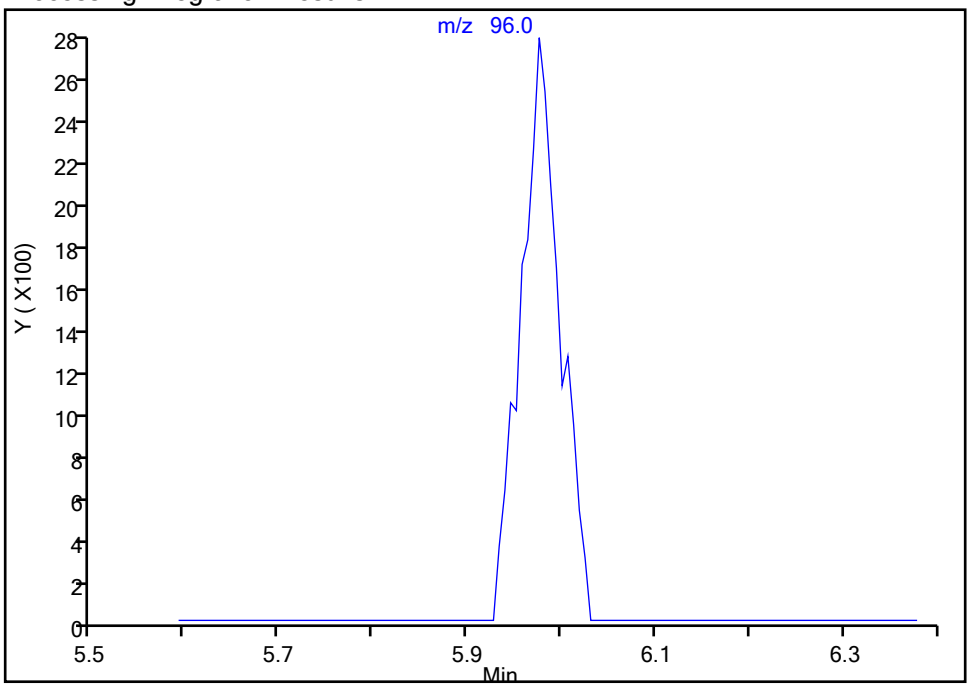
Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X19.D				
Injection Date:	06-Nov-2022 17:49:30	Instrument ID:	16334		
Lims ID:	410-103501-A-11	Lab Sample ID:	410-103501-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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

Signal: 1

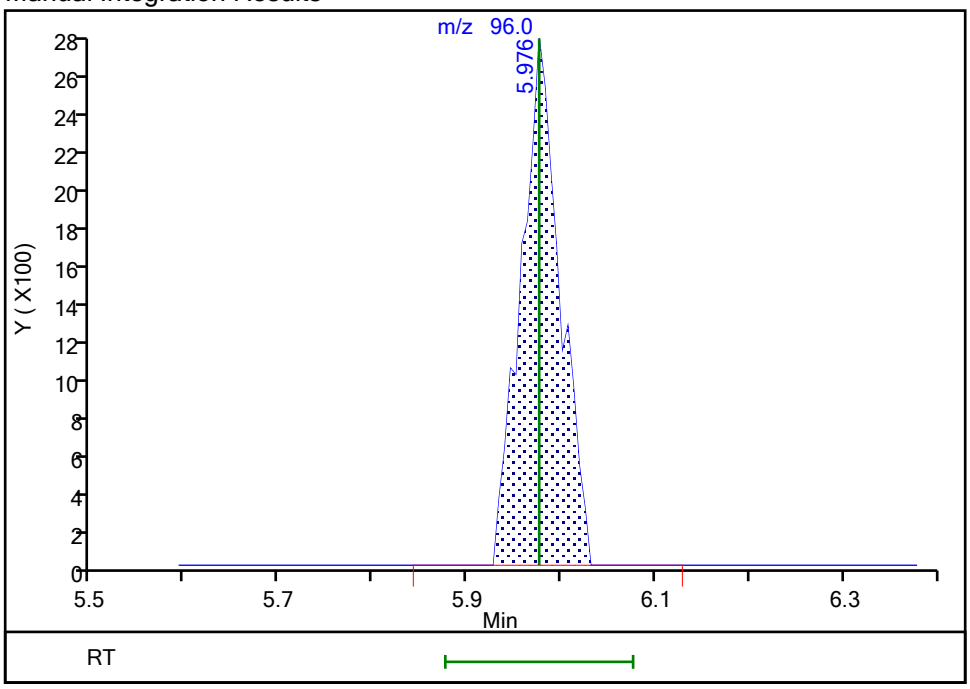
Processing Integration Results

Not Detected
Expected RT: 5.98



Manual Integration Results

RT: 5.98
Area: 7956
Amount: 0.169360
Amount Units: ug/l



Reviewer: USEJ, 07-Nov-2022 21:15:19
Audit Action: Manually Integrated Audit Reason: Missed Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-29-0/1-0 Lab Sample ID: 410-103501-12

Matrix: Water Lab File ID: GN06X20.D

Analysis Method: 8260D Date Collected: 10/27/2022 09:00

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 18:11

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.5	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND	^c cn	1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND	*+	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.18	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.49	J	0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-29-0/1-0 Lab Sample ID: 410-103501-12

Matrix: Water Lab File ID: GN06X20.D

Analysis Method: 8260D Date Collected: 10/27/2022 09:00

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 18:11

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.19	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X20.D
Lims ID: 410-103501-A-12
Client ID: HD-COD-SW-29-0/1-0
Sample Type: Client
Inject. Date: 06-Nov-2022 18:11:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070453-021
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Nov-2022 21:38:18 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	5 Chloromethane	50	2.093	2.087	0.006	86	2543	0.0495	
	6 Vinyl chloride	62		2.203				ND	
	9 Bromomethane	94		2.526				ND	7
	10 Chloroethane	64		2.605				ND	
	18 1,1-Dichloroethene	96		3.422				ND	
	20 Acetone	43	3.495	3.471	0.024	96	10205	1.48	
	23 Carbon disulfide	76		3.708				ND	7
	29 Methylene Chloride	84		4.062				ND	
*	30 t-Butyl alcohol-d10 (IS)	65	4.147	4.135	0.012	34	135712	50.0	
	33 Methyl tert-butyl ether	73		4.458				ND	
	34 trans-1,2-Dichloroethene	96		4.464				ND	
	37 1,1-Dichloroethane	63		5.129				ND	
	41 2-Butanone (MEK)	43		5.946				ND	
	42 cis-1,2-Dichloroethene	96	5.982	5.976	0.006	76	8740	0.1812	
	49 Chlorobromomethane	128		6.299				ND	
	51 Chloroform	83	6.470	6.458	0.012	87	5734	0.0746	
$	52 Dibromofluoromethane (Surr)	113	6.683	6.671	0.012	88	451663	10.4	
	53 1,1,1-Trichloroethane	97	6.683	6.677	0.006	42	2378	0.0355	
	56 Carbon tetrachloride	117		6.891				ND	
$	59 1,2-Dichloroethane-d4 (Surr)	102	7.134	7.122	0.012	63	96780	10.5	
	60 Benzene	78		7.159				ND	
	61 1,2-Dichloroethane	62		7.226				ND	
*	64 Fluorobenzene (IS)	96	7.573	7.567	0.006	99	1753834	10.0	
	68 Trichloroethene	95	8.049	8.043	0.006	95	9116	0.1859	
	70 1,2-Dichloropropane	63		8.378				ND	
	76 Dichlorobromomethane	83		8.726				ND	
	81 cis-1,3-Dichloropropene	75		9.280				ND	
	82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	
$	83 Toluene-d8 (Surr)	98	9.597	9.597	0.000	93	1764009	10.1	
	84 Toluene	92	9.677	9.671	0.006	97	4758	0.0404	
	85 trans-1,3-Dichloropropene	75		9.939				ND	
	106 1,1,2-Trichloroethane	97		10.140				ND	
	107 Tetrachloroethene	166	10.231	10.231	0.000	97	29256	0.4934	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
109 2-Hexanone	43		10.366				ND	
111 Chlorodibromomethane	129		10.524				ND	
112 Ethylene Dibromide	107		10.634				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	84	1357160	10.0	
115 Chlorobenzene	112		11.097				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
116 Ethylbenzene	91		11.182				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.298				ND	7
120 o-Xylene	106		11.628				ND	
121 Styrene	104		11.640				ND	
122 Bromoform	173		11.798				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	94	622813	9.63	
127 1,1,2,2-Tetrachloroethane	83		12.176				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	94	800513	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

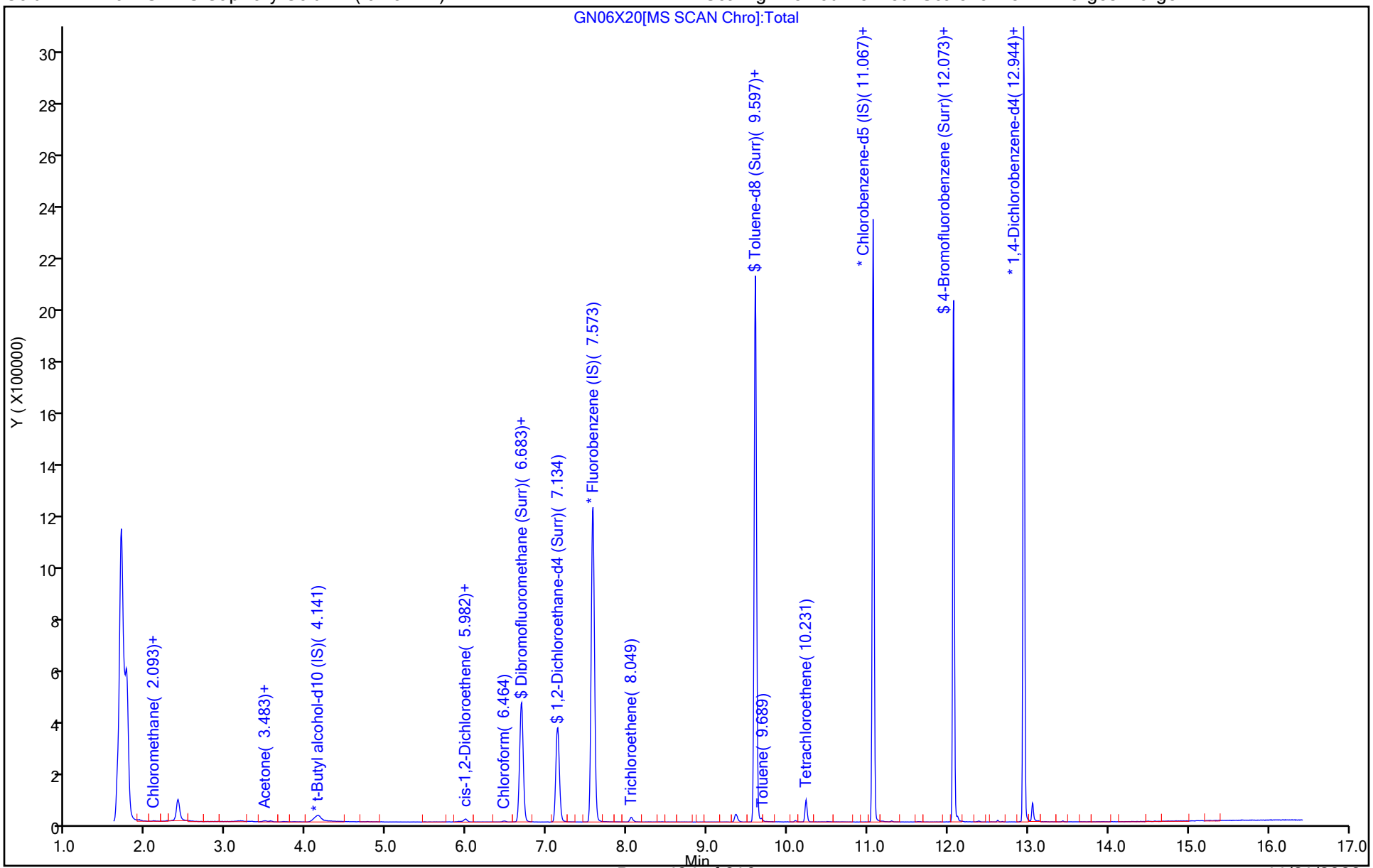
MSV_29_826ISS_00039 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 07-Nov-2022 21:38:51 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X20.D				
Injection Date:	06-Nov-2022 18:11:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-103501-A-12	Lab Sample ID:	410-103501-12	Worklist Smp#:	21
Client ID:	HD-COD-SW-29-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



11/21/2022
12:36 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X20.D
Lims ID: 410-103501-A-12
Client ID: HD-COD-SW-29-0/1-0
Sample Type: Client
Inject. Date: 06-Nov-2022 18:11:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070453-021
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Nov-2022 21:38:18 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

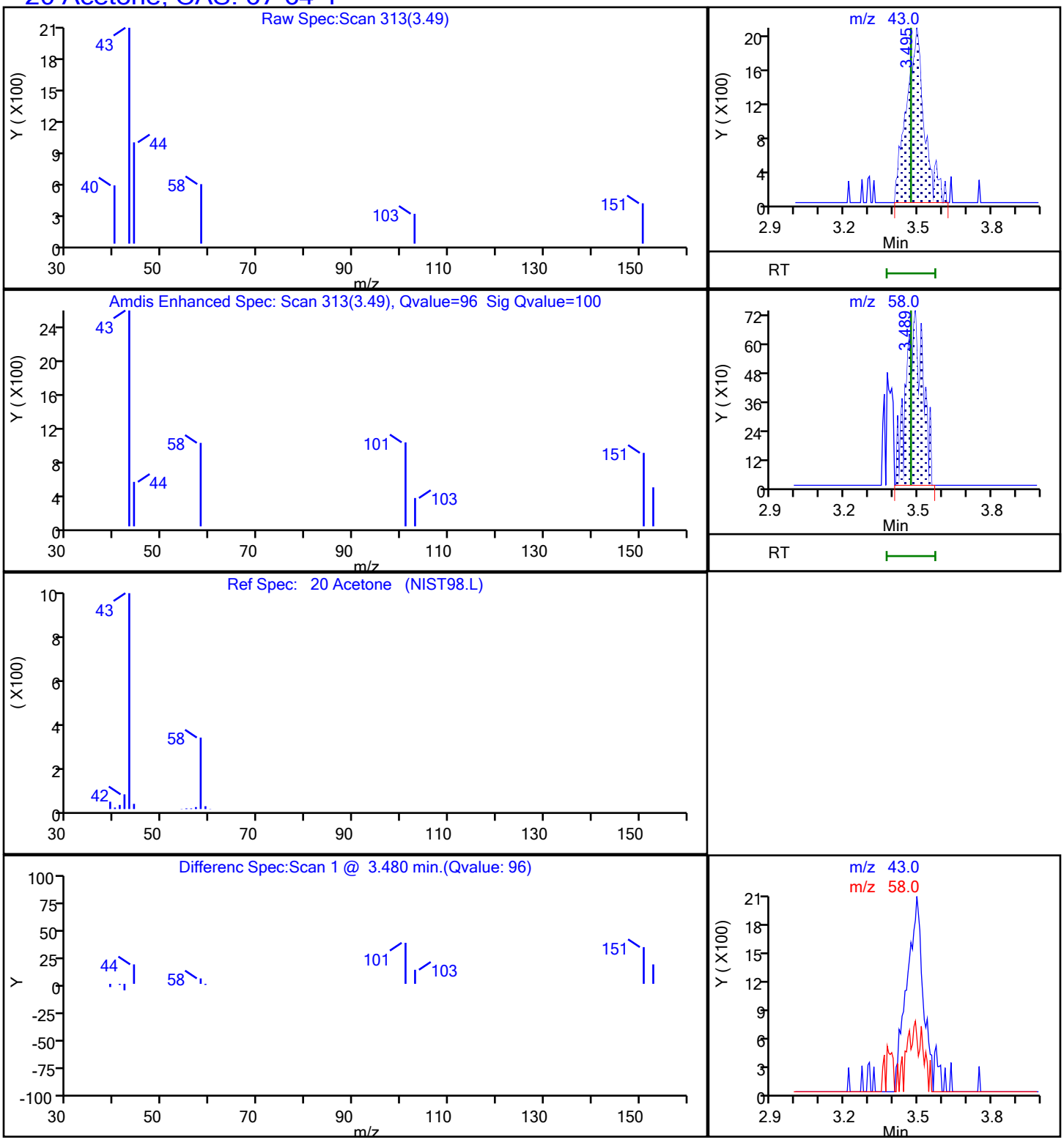
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.4	103.73
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	104.65
$ 83 Toluene-d8 (Surr)	10.0	10.1	101.50
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.63	96.27

Report Date: 07-Nov-2022 21:38:52 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X20.D				
Injection Date:	06-Nov-2022 18:11:30	Instrument ID:	16334		
Lims ID:	410-103501-A-12	Lab Sample ID:	410-103501-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X20.D				
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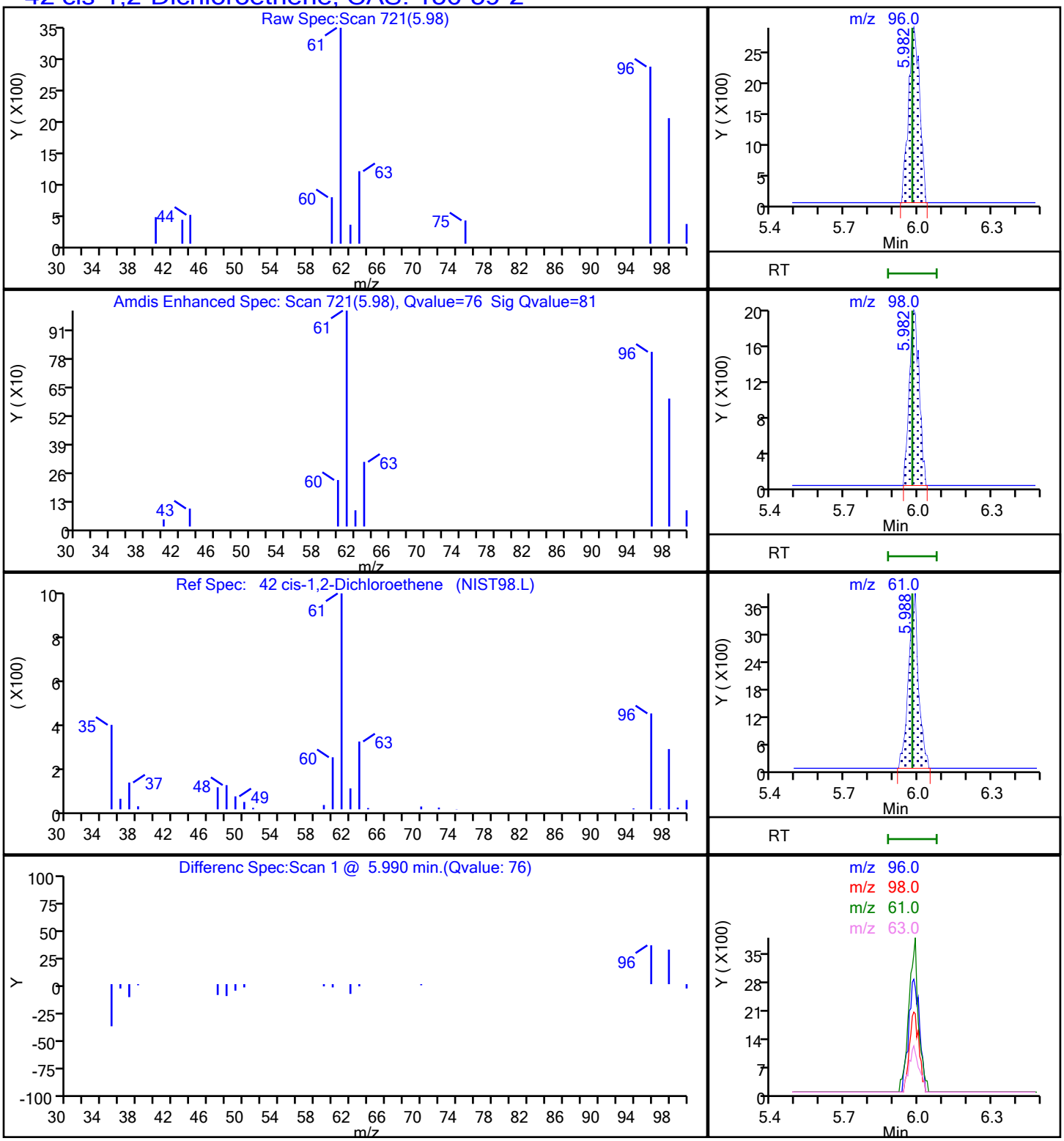
Lims ID:	410-103501-A-12	Lab Sample ID:	410-103501-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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



Report Date: 07-Nov-2022 21:38:54 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

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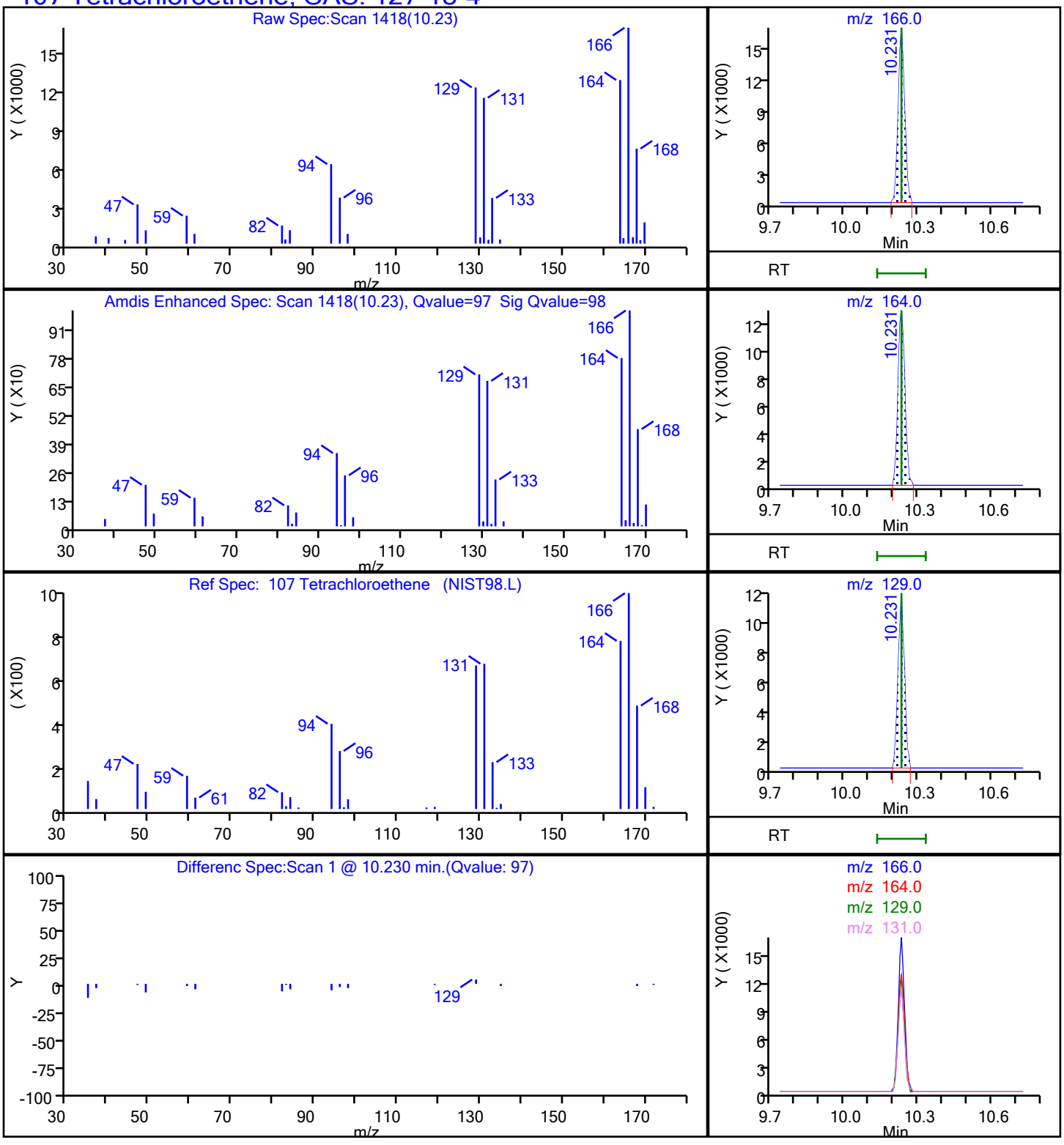
Injection Date:	06-Nov-2022 18:11:30	Instrument ID:	16334		
Lims ID:	410-103501-A-12	Lab Sample ID:	410-103501-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

107 Tetrachloroethene, CAS: 127-18-4



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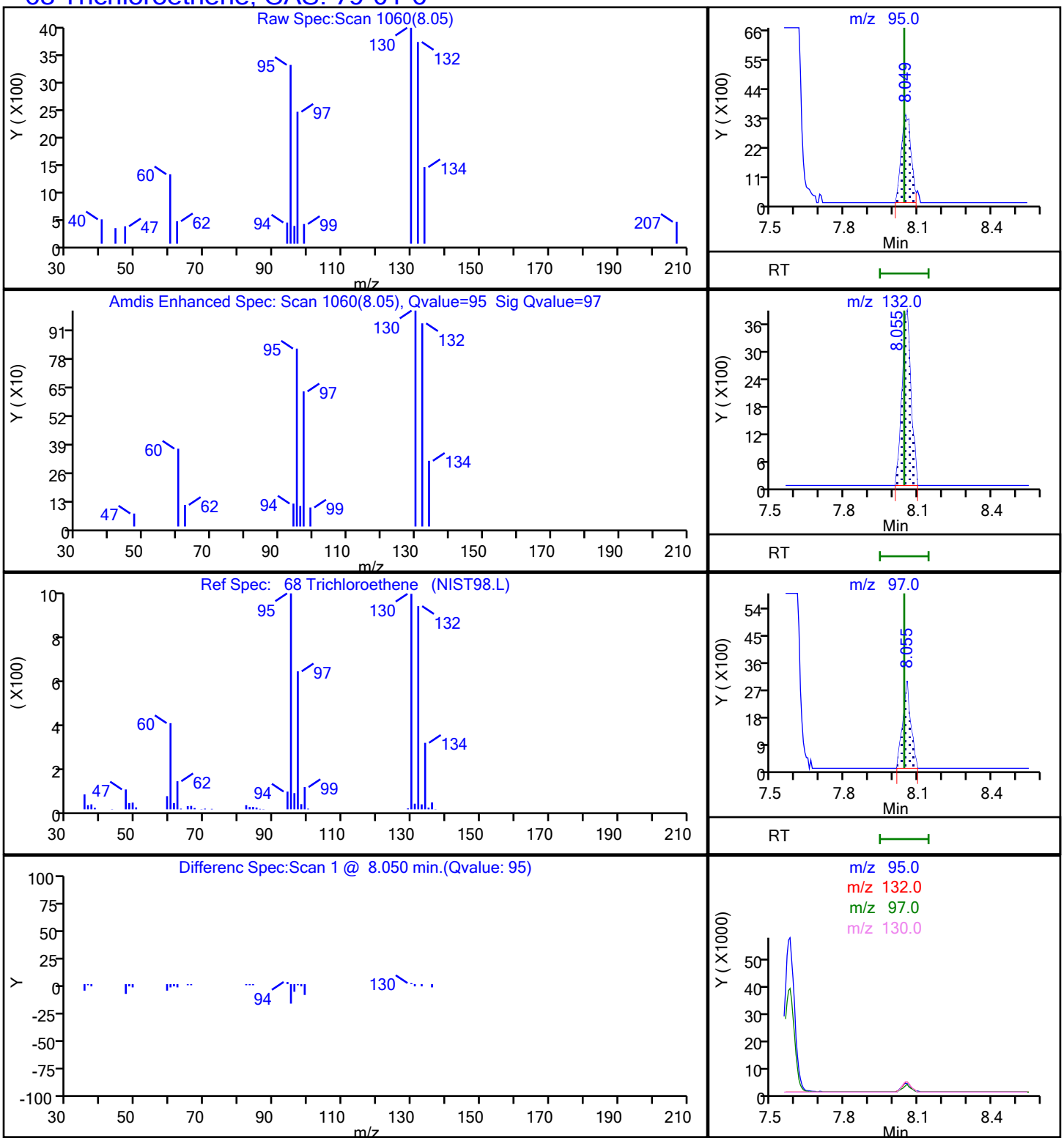
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X20.D				
Injection Date:	06-Nov-2022 18:11:30	Instrument ID:	16334		
Lims ID:	410-103501-A-12	Lab Sample ID:	410-103501-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1 Lab Sample ID: 410-103501-13

Matrix: Water Lab File ID: GN06X21.D

Analysis Method: 8260D Date Collected: 10/27/2022 10:05

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 18:33

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	6.4		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	1.2		0.50	0.10
75-35-4	1,1-Dichloroethene	0.53		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND	^c cn	1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND	*+	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.31	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	3.0		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1 Lab Sample ID: 410-103501-13

Matrix: Water Lab File ID: GN06X21.D

Analysis Method: 8260D Date Collected: 10/27/2022 10:05

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 18:33

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	3.8		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X21.D
Lims ID: 410-103501-A-13
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 06-Nov-2022 18:33:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070453-022
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Nov-2022 22:03:35 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

First Level Reviewer: USEJ Date: 07-Nov-2022 21:35:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.087				ND	
6 Vinyl chloride	62		2.203				ND	7
9 Bromomethane	94		2.526				ND	
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96	3.422	3.422	0.000	95	19473	0.5280	
20 Acetone	43		3.471				ND	7
23 Carbon disulfide	76		3.708				ND	7
29 Methylene Chloride	84		4.062				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.135	4.135	0.000	35	134366	50.0	
33 Methyl tert-butyl ether	73	4.440	4.458	-0.018	78	3706	0.0352	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63	5.141	5.129	0.012	96	83637	1.20	
41 2-Butanone (MEK)	43		5.946				ND	
42 cis-1,2-Dichloroethene	96	5.976	5.976	0.000	78	139932	2.97	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.458	6.458	0.000	92	23035	0.3071	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	94	440395	10.4	
53 1,1,1-Trichloroethane	97	6.683	6.677	0.006	97	418896	6.40	
56 Carbon tetrachloride	117		6.891				ND	7
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.122	0.006	62	94626	10.5	
60 Benzene	78		7.159				ND	
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.567	0.000	99	1712293	10.0	
68 Trichloroethene	95	8.043	8.043	0.000	96	183448	3.83	
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	
$ 83 Toluene-d8 (Surr)	98	9.597	9.597	0.000	93	1695005	9.79	
84 Toluene	92	9.670	9.671	-0.001	98	5261	0.0449	
85 trans-1,3-Dichloropropene	75		9.939				ND	
106 1,1,2-Trichloroethane	97		10.140				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.231	10.231	0.000	97	5028747	85.2	E
109 2-Hexanone	43		10.366				ND	
111 Chlorodibromomethane	129		10.524				ND	
112 Ethylene Dibromide	107		10.634				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	84	1351445	10.0	
115 Chlorobenzene	112		11.097				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
116 Ethylbenzene	91		11.182				ND	
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.298				ND	7
120 o-Xylene	106		11.628				ND	
121 Styrene	104		11.640				ND	
122 Bromoform	173		11.798				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.072	12.066	0.006	96	609391	9.46	
127 1,1,2,2-Tetrachloroethane	83		12.176				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	93	779543	10.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

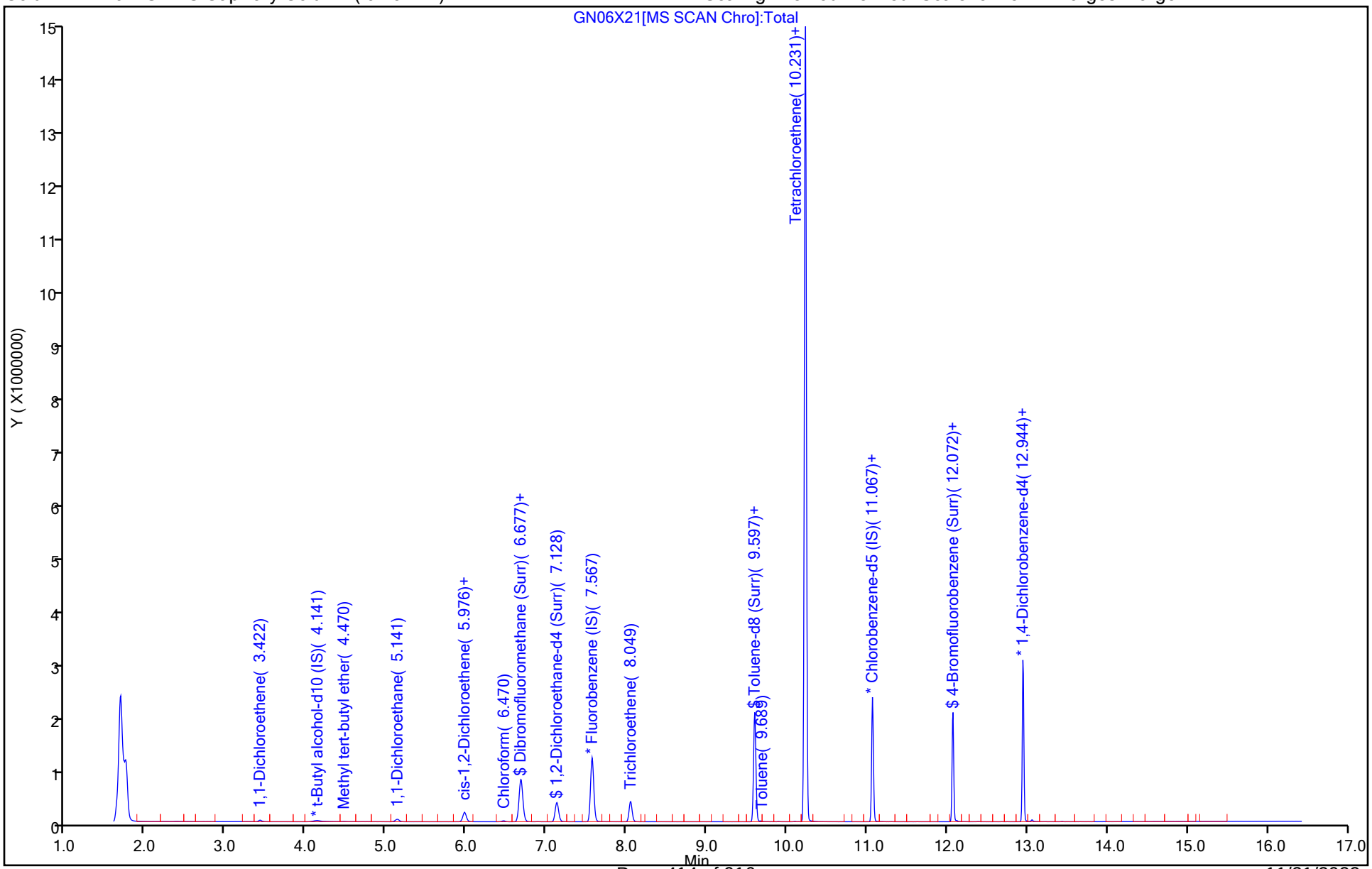
MSV_29_826ISS_00039 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 07-Nov-2022 22:03:44 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X21.D				
Injection Date:	06-Nov-2022 18:33:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-103501-A-13	Lab Sample ID:	410-103501-13	Worklist Smp#:	22
Client ID:	HD-QC1-0/1-1				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X21.D				
Lims ID:	410-103501-A-13				
Client ID:	HD-QC1-0/1-1				
Sample Type:	Client				
Inject. Date:	06-Nov-2022 18:33:30	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0070453-022				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Nov-2022 22:03:35	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1606				

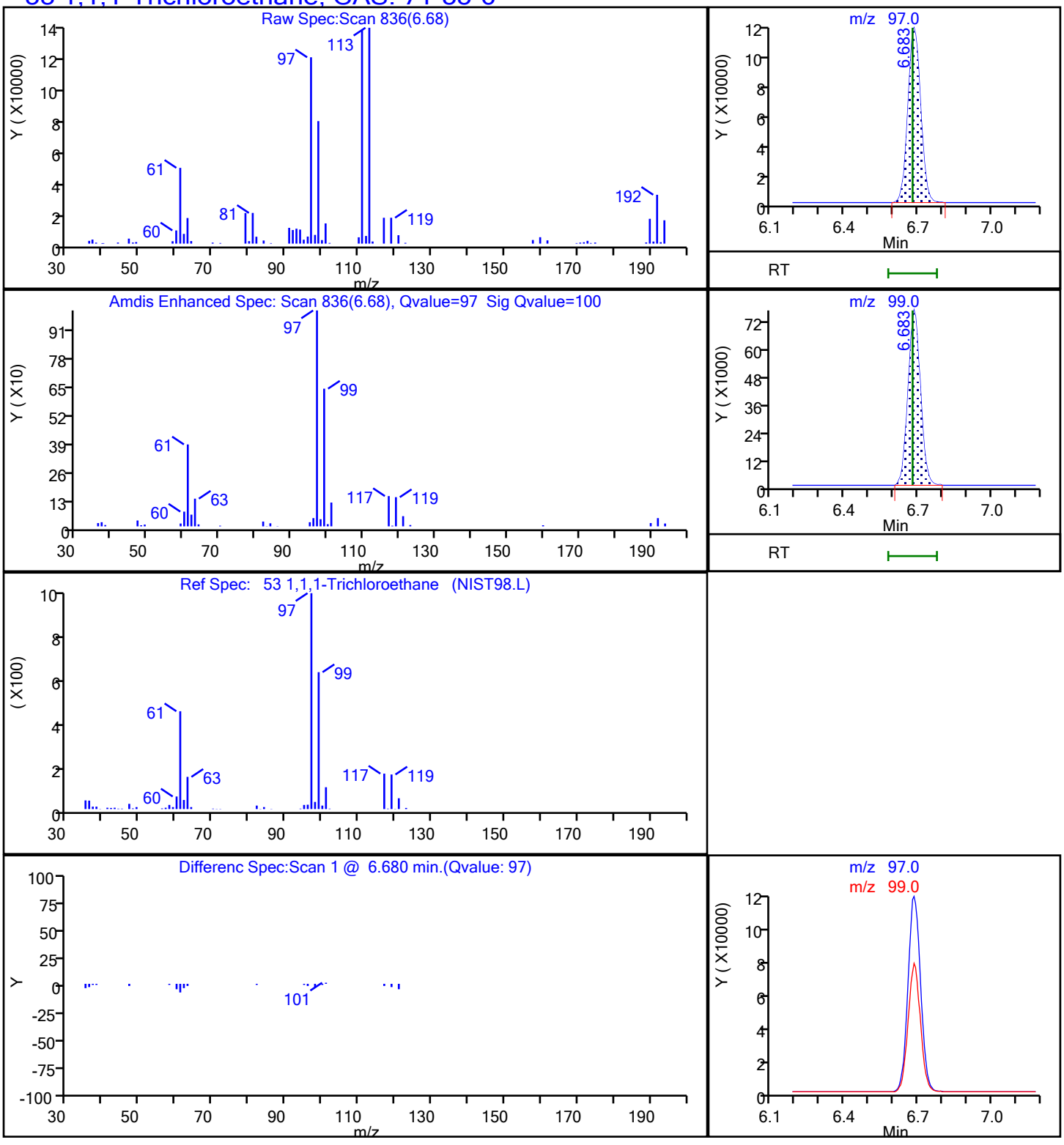
First Level Reviewer: USEJ Date: 07-Nov-2022 21:35:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.4	103.60
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	104.81
$ 83 Toluene-d8 (Surr)	10.0	9.79	97.94
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.46	94.60

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X21.D				
Injection Date:	06-Nov-2022 18:33:30	Instrument ID:	16334		
Lims ID:	410-103501-A-13	Lab Sample ID:	410-103501-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

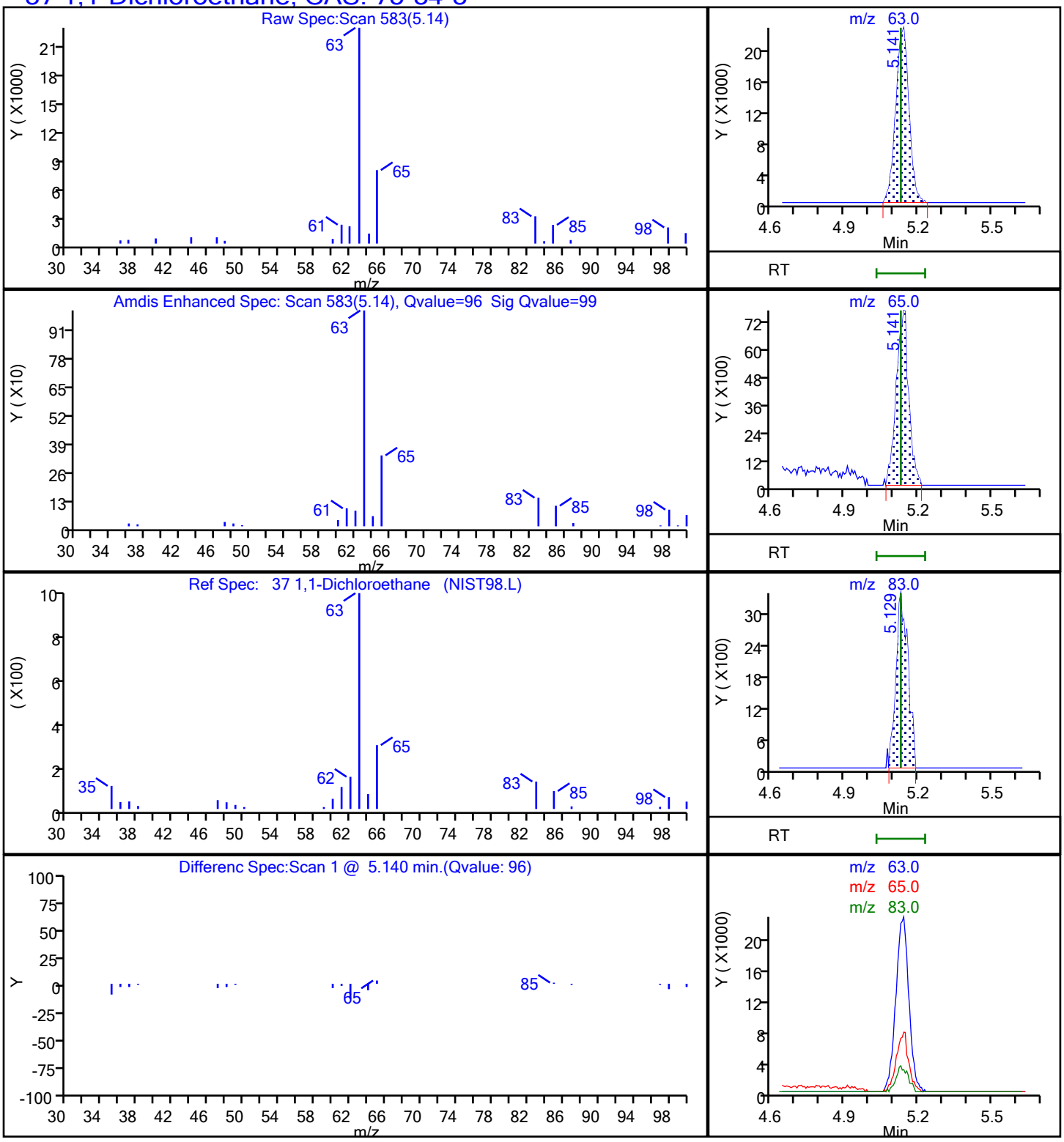
53 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X21.D				
Injection Date:	06-Nov-2022 18:33:30	Instrument ID:	16334		
Lims ID:	410-103501-A-13	Lab Sample ID:	410-103501-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

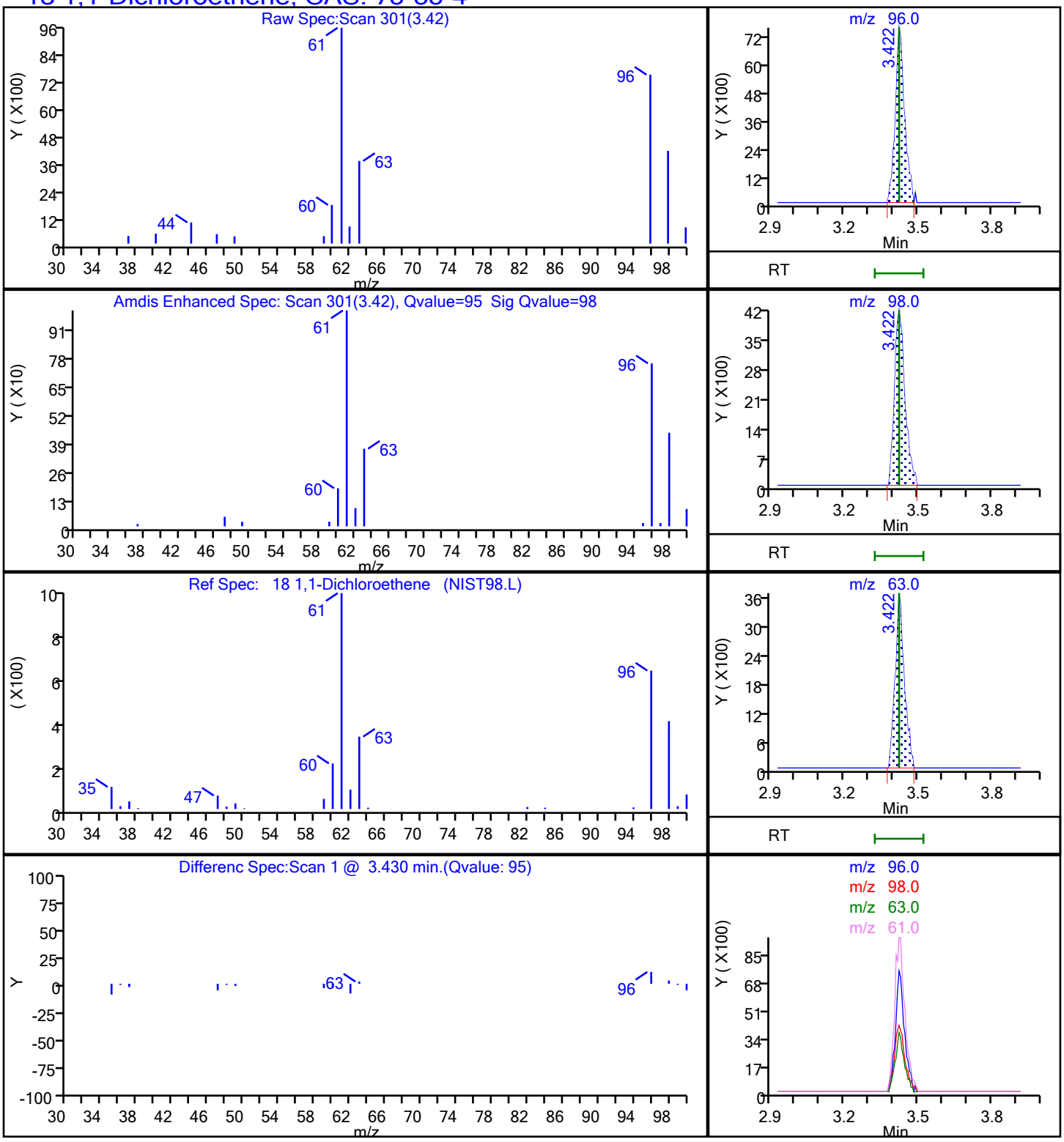
37 1,1-Dichloroethane, CAS: 75-34-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X21.D				
Injection Date:	06-Nov-2022 18:33:30	Instrument ID:	16334		
Lims ID:	410-103501-A-13	Lab Sample ID:	410-103501-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

18 1,1-Dichloroethene, CAS: 75-35-4

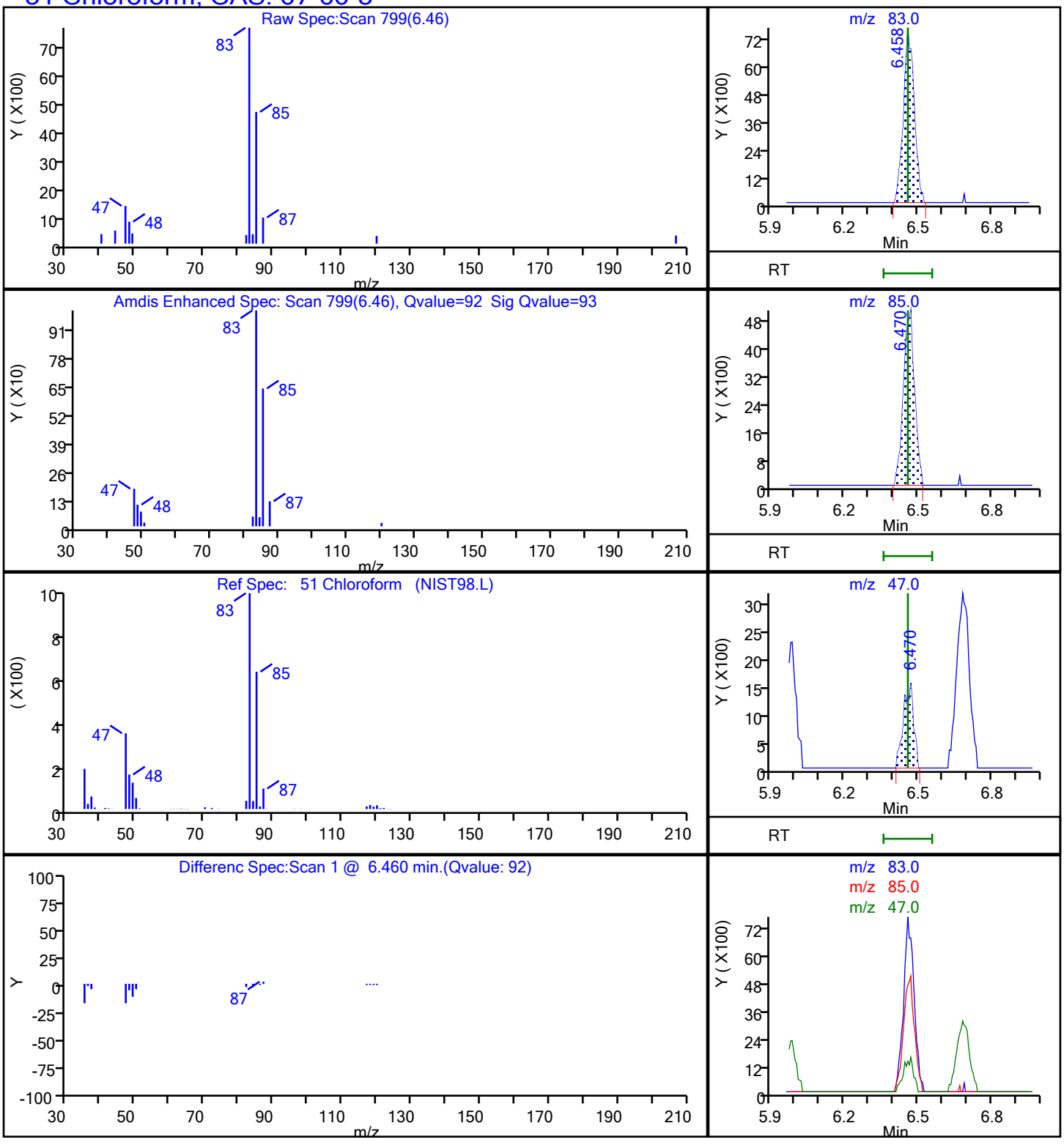


Report Date: 07-Nov-2022 22:03:44 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X21.D				
Injection Date:	06-Nov-2022 18:33:30	Instrument ID:	16334		
Lims ID:	410-103501-A-13	Lab Sample ID:	410-103501-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

51 Chloroform, CAS: 67-66-3



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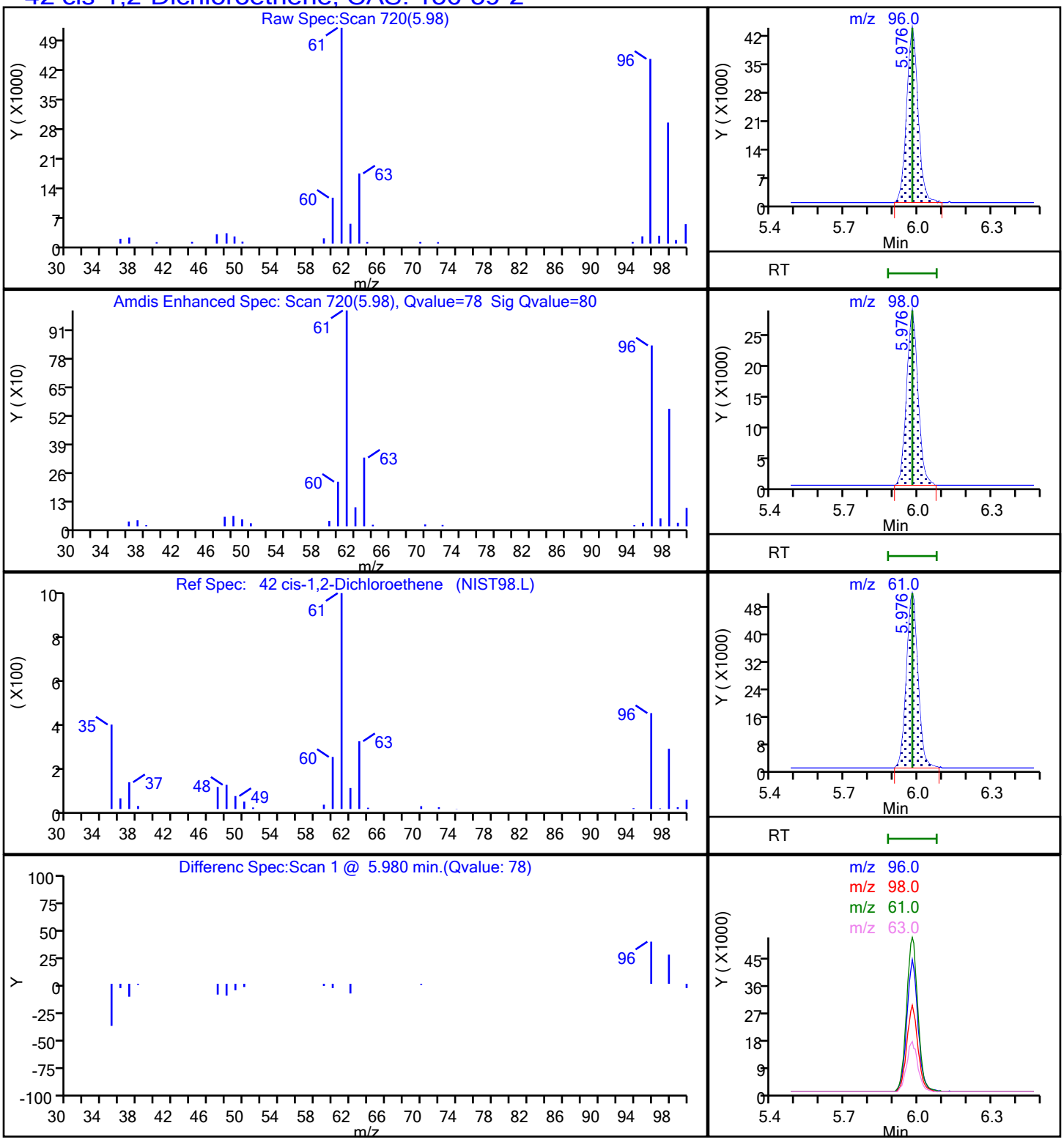
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X21.D				
Injection Date:	06-Nov-2022 18:33:30	Instrument ID:	16334		
Lims ID:	410-103501-A-13	Lab Sample ID:	410-103501-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

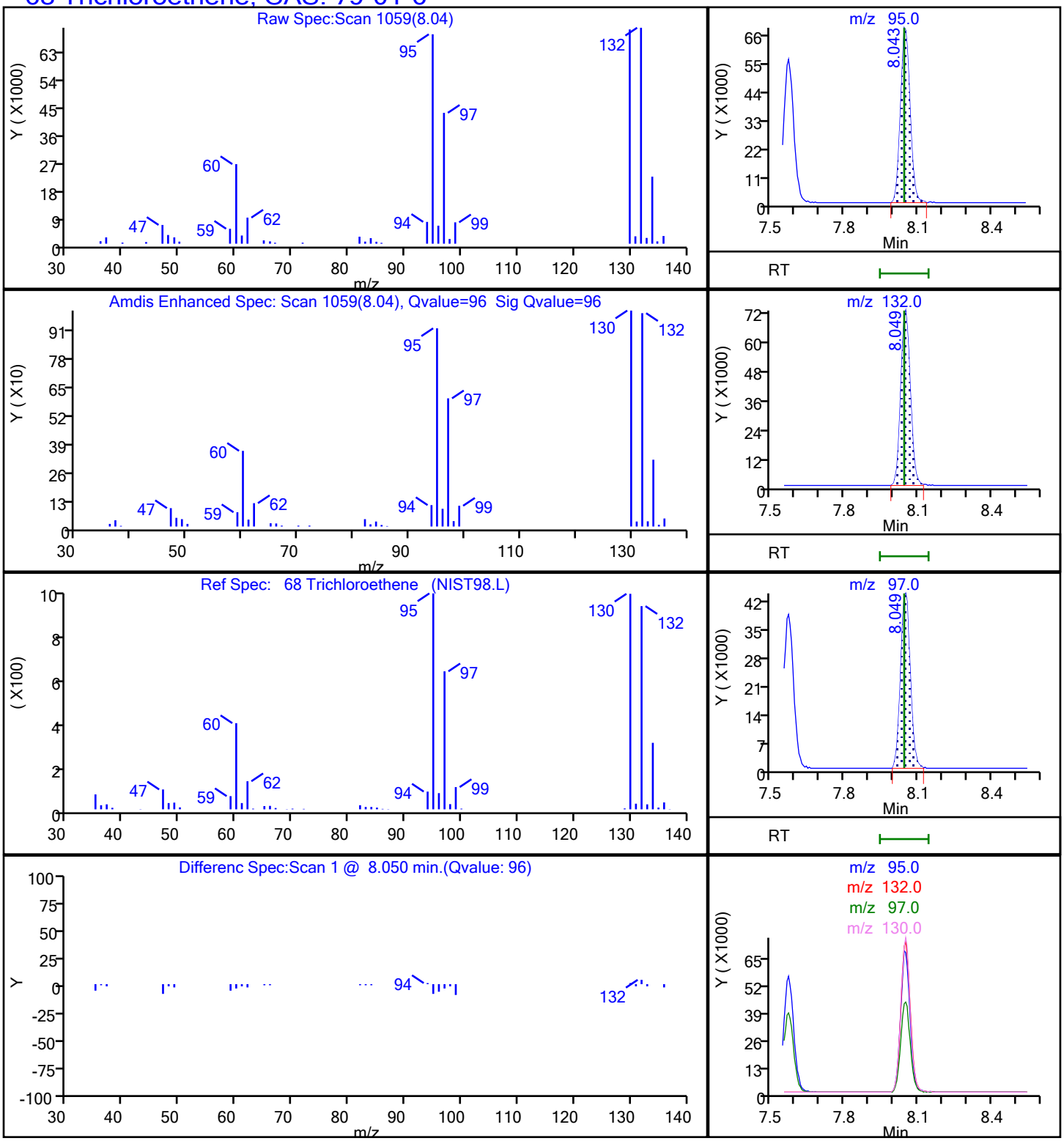
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X21.D				
Injection Date:	06-Nov-2022 18:33:30	Instrument ID:	16334		
Lims ID:	410-103501-A-13	Lab Sample ID:	410-103501-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



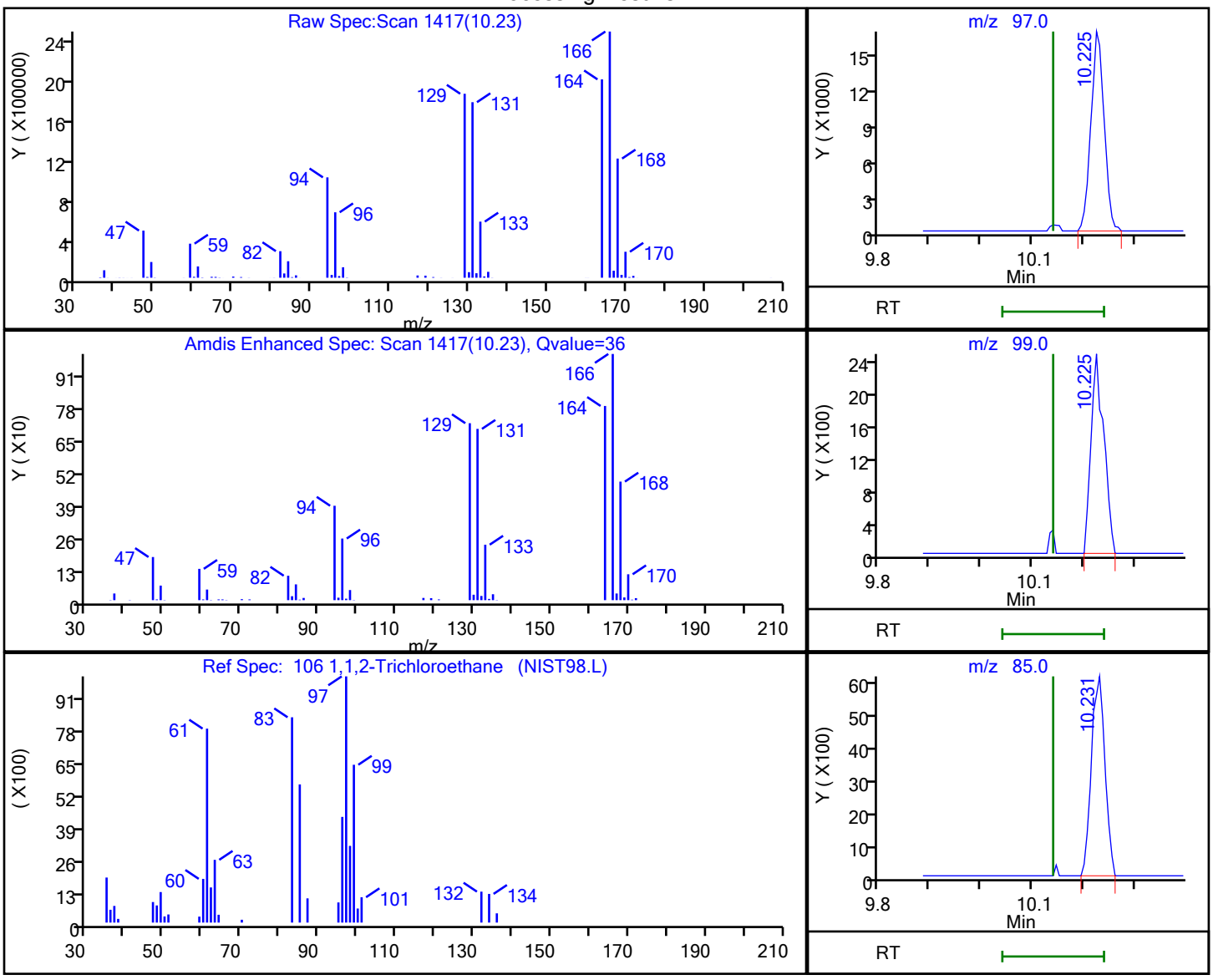
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X21.D				
Injection Date:	06-Nov-2022 18:33:30	Instrument ID:	16334		
Lims ID:	410-103501-A-13	Lab Sample ID:	410-103501-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

106 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
10.23	97.00	29937	0.868317
10.23	99.00	4341	
10.23	85.00	11486	
10.23	83.00	81867	

Reviewer: USEJ, 07-Nov-2022 22:03:27

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1 DL Lab Sample ID: 410-103501-13 DL

Matrix: Water Lab File ID: IN08X23.D

Analysis Method: 8260D Date Collected: 10/27/2022 10:05

Sample wt/vol: 25(mL) Date Analyzed: 11/08/2022 18:45

Soil Aliquot Vol: Dilution Factor: 10

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

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

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

Analysis Batch No.: 315144 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	68		5.0	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08X23.D
Lims ID: 410-103501-B-13 DL
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 08-Nov-2022 18:45:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0070638-024
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20221108-70638.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 09-Nov-2022 14:51:17 Calib Date: 11-Oct-2022 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1619

First Level Reviewer: changnoit Date: 09-Nov-2022 14:53:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.129				ND	
5 Vinyl chloride	62		2.233				ND	
7 Bromomethane	94		2.568				ND	
8 Chloroethane	64		2.654				ND	
15 1,1-Dichloroethene	96	3.507	3.507	0.000	6	1718	0.0408	
16 Acetone	43		3.532				ND	7
20 Carbon disulfide	76		3.800				ND	7
25 Methylene Chloride	84		4.160				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	4.166	4.166	0.000	98	140230	50.0	
29 Methyl tert-butyl ether	73		4.562				ND	
30 trans-1,2-Dichloroethene	96		4.568				ND	
32 1,1-Dichloroethane	63	5.233	5.226	0.007	92	7292	0.0875	
38 2-Butanone (MEK)	43		6.019				ND	7
39 cis-1,2-Dichloroethene	96	6.062	6.049	0.013	76	15532	0.3011	
46 Chlorobromomethane	128		6.379				ND	
48 Chloroform	83		6.531				ND	7
$ 49 Dibromofluoromethane (Surr)	113	6.751	6.751	0.000	94	409830	9.98	
50 1,1,1-Trichloroethane	97	6.769	6.757	0.012	98	37738	0.4750	
54 Carbon tetrachloride	117		6.976				ND	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.196	7.202	-0.006	97	87316	10.7	
57 Benzene	78		7.232				ND	
58 1,2-Dichloroethane	62		7.299				ND	
* 61 Fluorobenzene (IS)	96	7.635	7.635	0.001	99	1626646	10.0	
64 Trichloroethene	95	8.116	8.110	0.006	95	17775	0.3360	
66 1,2-Dichloropropane	63		8.439				ND	
71 Dichlorobromomethane	83		8.787				ND	
76 cis-1,3-Dichloropropene	75		9.335				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.500				ND	
$ 78 Toluene-d8 (Surr)	98	9.646	9.646	0.000	93	1660039	9.76	
79 Toluene	92		9.719				ND	7
97 trans-1,3-Dichloropropene	75		9.976				ND	
100 1,1,2-Trichloroethane	97		10.183				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.274	10.274	0.000	97	442800	6.81	
103 2-Hexanone	43		10.396				ND	
105 Chlorodibromomethane	129		10.561				ND	
106 Ethylene Dibromide	107		10.671				ND	
* 107 Chlorobenzene-d5 (IS)	117	11.103	11.103	0.000	84	1286407	10.0	
109 Chlorobenzene	112		11.128				ND	
111 1,1,1,2-Tetrachloroethane	131		11.213				ND	
112 Ethylbenzene	91		11.213				ND	
S 110 Xylenes, Total	106		11.245				ND	7
113 m-Xylene & p-Xylene	106		11.329				ND	
114 o-Xylene	106		11.658				ND	
115 Styrene	104		11.676				ND	
116 Bromoform	173		11.835				ND	
$ 120 4-Bromofluorobenzene (Surr)	95	12.103	12.103	0.000	93	595767	9.46	
121 1,1,2,2-Tetrachloroethane	83		12.201				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	94	728219	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

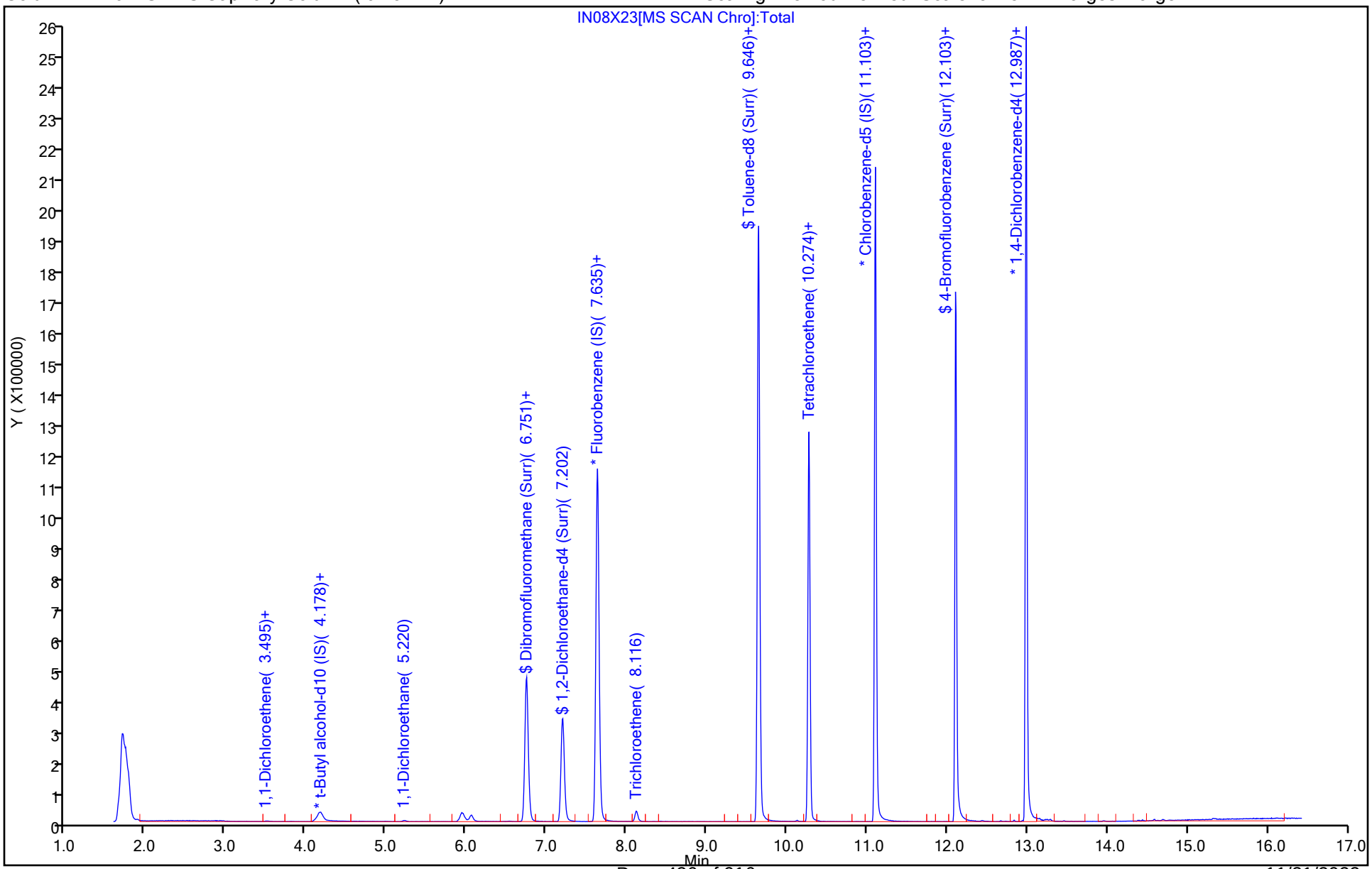
MSV_LLcentISS_00005 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Nov-2022 14:53:11 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08X23.D				
Injection Date:	08-Nov-2022 18:45:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	410-103501-B-13 DL	Lab Sample ID:	410-103501-13	Worklist Smp#:	24
Client ID:	HD-QC1-0/1-1				
Purge Vol:	25.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	23
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08X23.D				
Lims ID:	410-103501-B-13 DL				
Client ID:	HD-QC1-0/1-1				
Sample Type:	Client				
Inject. Date:	08-Nov-2022 18:45:30	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	10.0000		
Sample Info:	410-0070638-024				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20221108-70638.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Nov-2022 14:51:17	Calib Date:	11-Oct-2022 20:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1619				

First Level Reviewer: changnoit Date: 09-Nov-2022 14:53:11

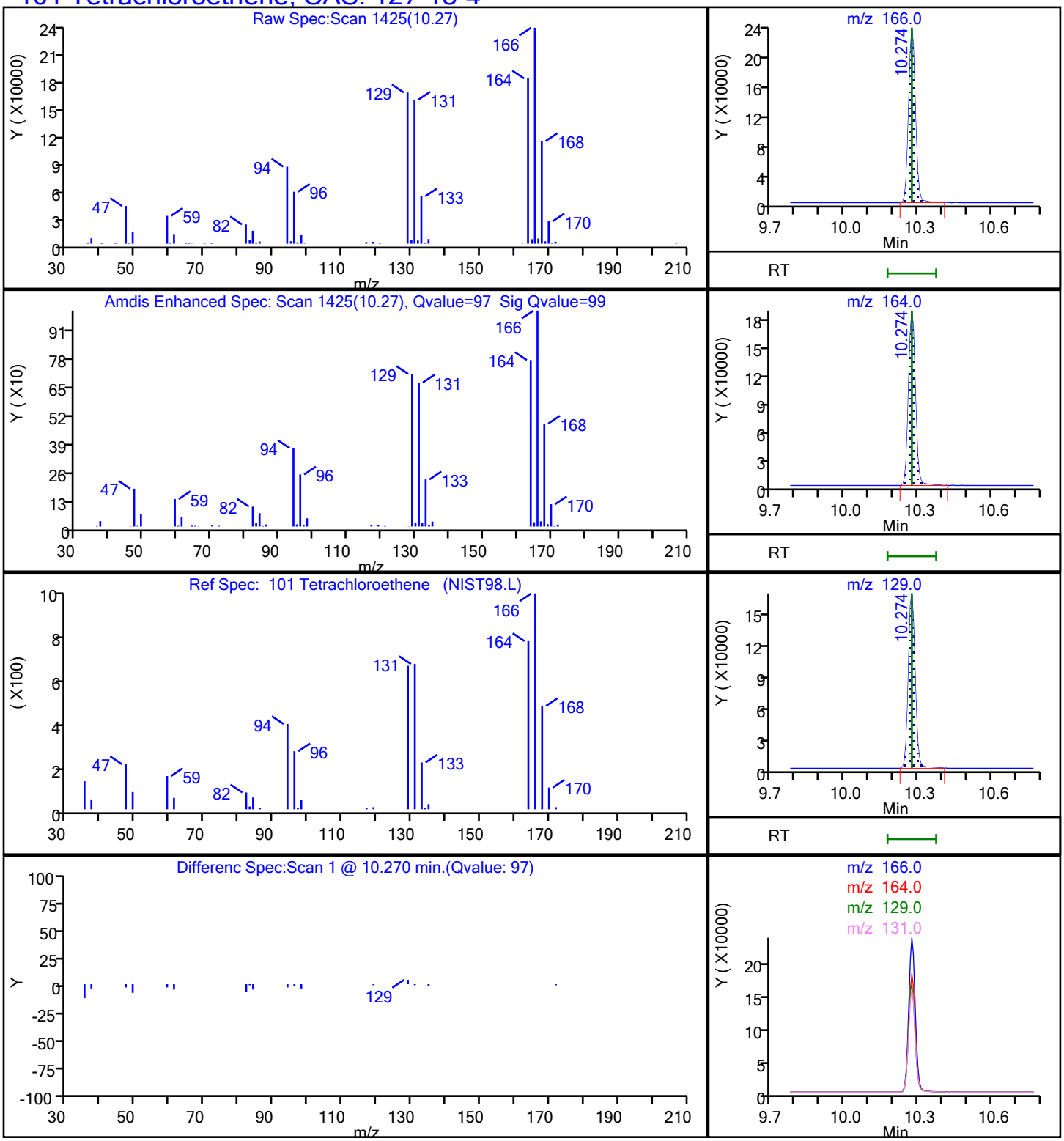
Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	9.98	99.84
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.7	107.15
$ 78 Toluene-d8 (Surr)	10.0	9.76	97.59
$ 120 4-Bromofluorobenzene (Surr)	10.0	9.46	94.64

Report Date: 09-Nov-2022 14:53:12 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08X23.D				
Injection Date:	08-Nov-2022 18:45:30	Instrument ID:	19930		
Lims ID:	410-103501-B-13 DL	Lab Sample ID:	410-103501-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	10.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

101 Tetrachloroethene, CAS: 127-18-4



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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-QC1-0/1-2 Lab Sample ID: 410-103501-14

Matrix: Water Lab File ID: GN06X06.D

Analysis Method: 8260D Date Collected: 10/27/2022 00:00

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 13:03

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.9	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND	^c cn	1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND	*+	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-QC1-0/1-2 Lab Sample ID: 410-103501-14

Matrix: Water Lab File ID: GN06X06.D

Analysis Method: 8260D Date Collected: 10/27/2022 00:00

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 13:03

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X06.D
Lims ID: 410-103501-A-14
Client ID: HD-QC1-0/1-2
Sample Type: Client
Inject. Date: 06-Nov-2022 13:03:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070453-007
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Nov-2022 17:29:21 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

First Level Reviewer: DVW2 Date: 07-Nov-2022 17:18:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.087	2.087	0.000	1	1765	0.0339	
6 Vinyl chloride	62		2.203				ND	
9 Bromomethane	94		2.526				ND	
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96		3.422				ND	
20 Acetone	43	3.471	3.471	0.000	99	12090	1.89	
23 Carbon disulfide	76		3.708				ND	7
29 Methylene Chloride	84		4.062				ND	7
* 30 t-Butyl alcohol-d10 (IS)	65	4.135	4.135	0.000	34	125936	50.0	
33 Methyl tert-butyl ether	73		4.458				ND	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63		5.129				ND	
41 2-Butanone (MEK)	43		5.946				ND	
42 cis-1,2-Dichloroethene	96		5.976				ND	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.452	6.458	-0.006	88	3927	0.0505	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.671	0.000	93	451433	10.2	
53 1,1,1-Trichloroethane	97		6.677				ND	
56 Carbon tetrachloride	117		6.891				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.122	7.122	0.000	63	100638	10.7	
60 Benzene	78		7.159				ND	
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.561	7.567	-0.006	99	1775698	10.0	
68 Trichloroethene	95		8.043				ND	
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	
$ 83 Toluene-d8 (Surr)	98	9.591	9.597	-0.006	93	1769233	10.0	
84 Toluene	92	9.671	9.671	0.000	96	6981	0.0584	
85 trans-1,3-Dichloropropene	75		9.939				ND	
106 1,1,2-Trichloroethane	97		10.140				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166		10.231				ND	
109 2-Hexanone	43		10.366				ND	7
111 Chlorodibromomethane	129		10.524				ND	
112 Ethylene Dibromide	107		10.634				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	84	1377698	10.0	
115 Chlorobenzene	112		11.097				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
116 Ethylbenzene	91		11.182				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.298				ND	7
120 o-Xylene	106		11.628				ND	7
121 Styrene	104		11.640				ND	
122 Bromoform	173		11.798				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	94	628451	9.57	
127 1,1,2,2-Tetrachloroethane	83		12.176				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	94	805957	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

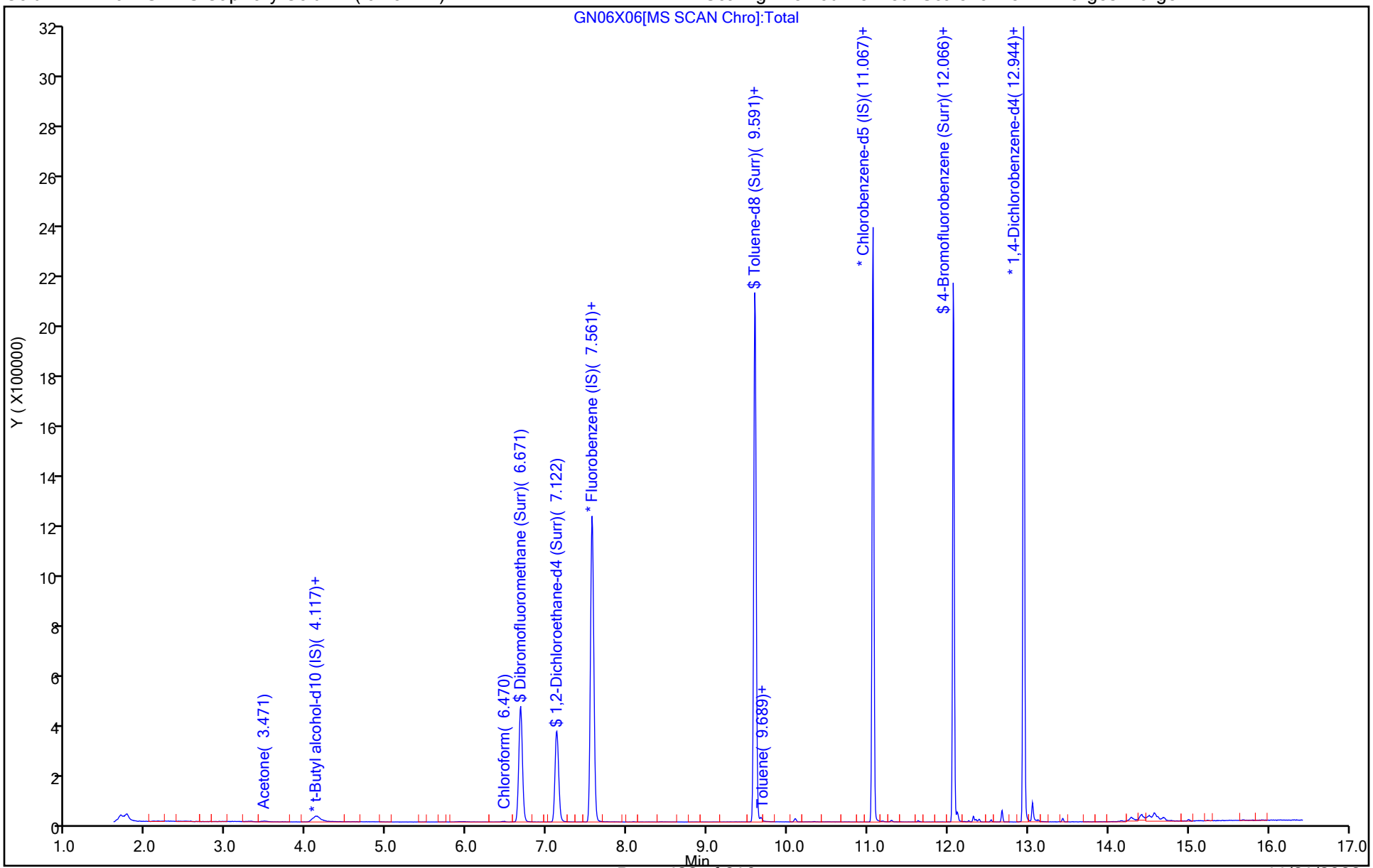
MSV_29_826ISS_00039 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 07-Nov-2022 21:09:56 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X06.D				
Injection Date:	06-Nov-2022 13:03:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-103501-A-14	Lab Sample ID:	410-103501-14	Worklist Smp#:	7
Client ID:	HD-QC1-0/1-2				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



11/21/2022
12:36 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X06.D				
Lims ID:	410-103501-A-14				
Client ID:	HD-QC1-0/1-2				
Sample Type:	Client				
Inject. Date:	06-Nov-2022 13:03:30	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0070453-007				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Nov-2022 17:29:21	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1606				

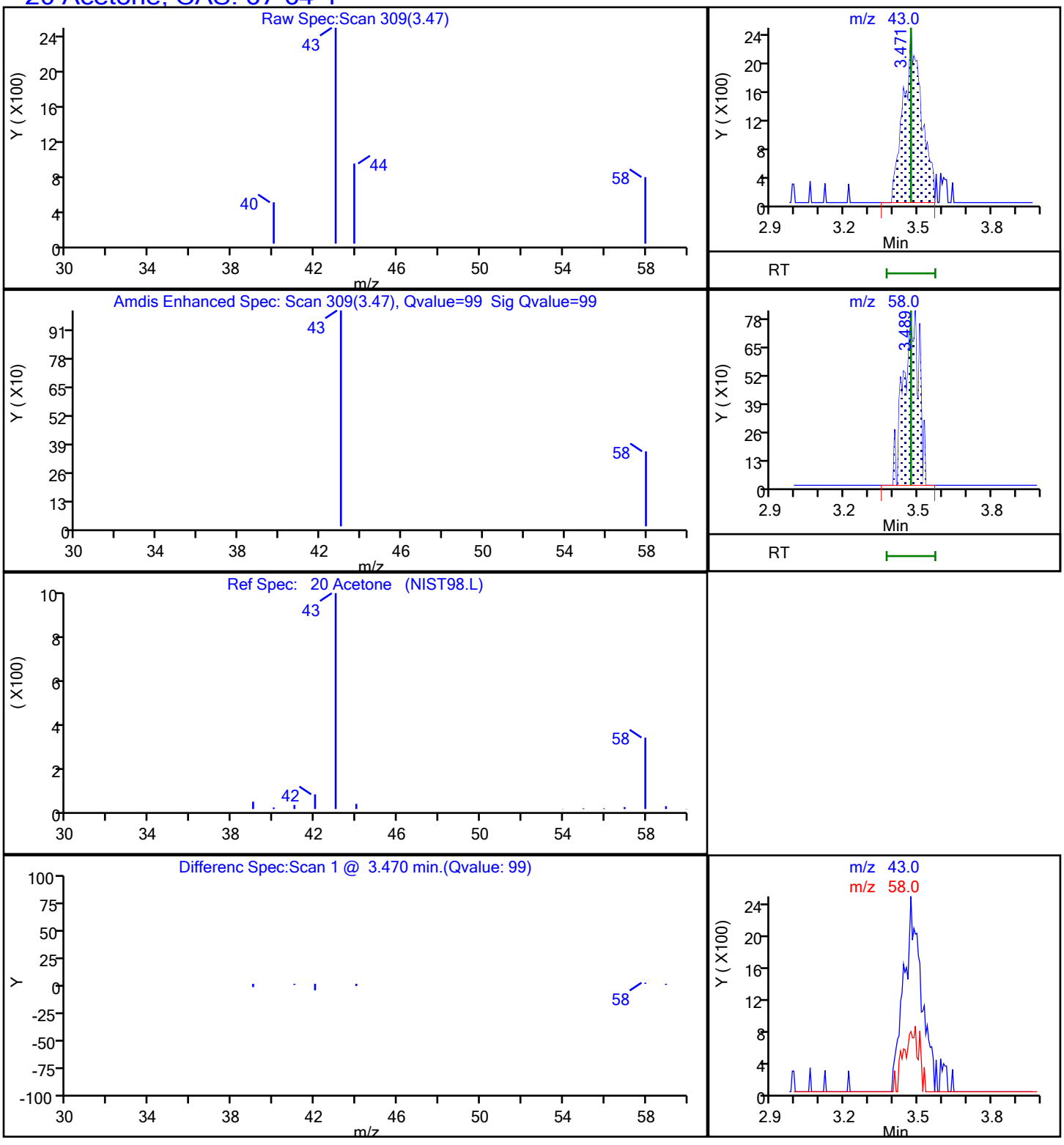
First Level Reviewer: DVW2 Date: 07-Nov-2022 17:18:44

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.2	102.40
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.7	107.49
$ 83 Toluene-d8 (Surr)	10.0	10.0	100.28
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.57	95.70

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X06.D				
Injection Date:	06-Nov-2022 13:03:30	Instrument ID:	16334		
Lims ID:	410-103501-A-14	Lab Sample ID:	410-103501-14		
Client ID:	HD-QC1-0/1-2				
Operator ID:	knk41612	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Acetone, CAS: 67-64-1



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-286414/13	GG16X12.D
Level 2	IC 410-286414/14	GG16X13.D
Level 3	IC 410-286414/15	GG16X14.D
Level 4	IC 410-286414/16	GG16X15.D
Level 5	IC 410-286414/17	GG16X16.D
Level 6	ICIS 410-286414/18	GG16X17.D
Level 7	IC 410-286414/19	GG16X18.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	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	0.2457 0.2333	0.2679 0.2376	0.2913	0.2716	0.2695	Ave		0.2596			0.1000	8.2		20.0			
Chloromethane	0.3010 0.2680	0.3209 0.2557	0.3202	0.3015	0.2825	Ave		0.2928			0.1000	8.6		20.0			
Vinyl chloride	0.2750 0.2798	0.3136 0.2769	0.3400	0.3113	0.2981	Ave		0.2992			0.1000	8.1		20.0			
1,3-Butadiene	0.3962 0.2361	0.2987 0.2316	0.2963	0.2712	0.2617	Ave		0.2845				19.6		20.0			
Bromomethane	0.2261 0.2243	0.2483 0.2244	0.2546	0.2408	0.2343	Ave		0.2361			0.1000	5.2		20.0			
Chloroethane	0.1711 0.1694	0.1824 0.1694	0.1965	0.1836	0.1764	Ave		0.1784			0.1000	5.6		20.0			
Dichlorofluoromethane	0.4293 0.4078	0.4569 0.4009	0.4800	0.4495	0.4294	Ave		0.4362			0.1000	6.4		20.0			
Trichlorofluoromethane	0.3753 0.3790	0.4358 0.3852	0.4475	0.4330	0.4236	Ave		0.4114			0.1000	7.4		20.0			
Ethyl ether	0.1833 0.1897	0.1994 0.1892	0.1984	0.1939	0.1823	Ave		0.1909				3.5		20.0			
Freon 123a	0.3032 0.2609	0.3088 0.2619	0.3227	0.2915	0.2851	Ave		0.2906				8.0		20.0			
Acrolein	2.6239 2.1232	2.3576 2.1818	2.1655	2.5762	2.1491	Ave		2.3110				9.2		20.0			
1,1-Dichloroethene	0.2157 0.2028	0.2147 0.2103	0.2350	0.2161	0.2133	Ave		0.2154			0.1000	4.5		20.0			
Freon 113	0.2086 0.1914	0.2084 0.1997	0.2322	0.2167	0.2127	Ave		0.2100			0.1000	6.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetone	3.4778 2.1455	2.5760 2.2092	2.4701	2.6493	2.2166	Ave		2.5349			0.1000	18.1		20.0			
Methyl iodide	0.4106 0.3938	0.4131 0.3949	0.4284	0.4138	0.4002	Ave		0.4078				3.0		20.0			
Carbon disulfide	0.4919 0.5411	0.4859 0.5815	0.5418	0.5089	0.5272	Ave		0.5255			0.1000	6.3		20.0			
Methyl acetate	10.313 6.2877	9.3831 6.9017	6.8543	8.4020	6.8845	Ave		7.8609			0.1000	19.4		20.0			
Allyl chloride	0.3032 0.2813	0.2953 0.2871	0.3053	0.2818	0.2808	Ave		0.2907				3.6		20.0			
Methylene Chloride	0.2445 0.2293	0.2399 0.2317	0.2458	0.2471	0.2324	Ave		0.2387			0.1000	3.1		20.0			
t-Butyl alcohol	0.9975 0.7912	1.0123 0.7800	0.8639	0.9552	0.8038	Ave		0.8863				11.3		20.0			
Acrylonitrile	3.2430 3.1698	3.2122 3.2622	3.2828	4.0348	3.3342	Ave		3.3627				8.9		20.0			
Methyl tert-butyl ether	0.6462 0.5929	0.6119 0.5920	0.6317	0.6281	0.6000	Ave		0.6147			0.1000	3.4		20.0			
trans-1,2-Dichloroethene	0.2496 0.2428	0.2524 0.2450	0.2698	0.2577	0.2438	Ave		0.2516			0.1000	3.8		20.0			
n-Hexane	0.2811 0.2487	0.2748 0.2591	0.3013	0.2783	0.2787	Ave		0.2746				6.1		20.0			
1,1-Dichloroethane	0.4064 0.3951	0.4071 0.4018	0.4350	0.4119	0.4039	Ave		0.4087			0.2000	3.1		20.0			
di-Isopropyl ether	0.6760 0.6619	0.6788 0.6625	0.7011	0.6879	0.6647	Ave		0.6761				2.2		20.0			
2-Chloro-1,3-butadiene	0.3164 0.3173	0.3198 0.3220	0.3513	0.3301	0.3202	Ave		0.3253				3.8		20.0			
Ethyl t-butyl ether	0.7048 0.6794	0.7045 0.6779	0.7128	0.7086	0.6813	Ave		0.6956				2.2		20.0			
2-Butanone (MEK)	5.5023 4.6054	5.1446 4.6640	5.0361	5.4656	4.6368	Ave		5.0078			0.1000	7.7		20.0			
cis-1,2-Dichloroethene	0.2744 0.2657	0.2693 0.2699	0.2949	0.2793	0.2711	Ave		0.2749			0.1000	3.6		20.0			
2,2-Dichloropropane	0.3257 0.3224	0.3174 0.3286	0.3642	0.3296	0.3262	Ave		0.3306				4.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	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								
Propionitrile	1.1974 1.1438	1.2290 1.1642	1.1852	1.2956	1.0910	Ave		1.1866				5.5		20.0			
Methacrylonitrile	5.5175 5.0373	5.2919 5.2107	5.1311	6.0603	5.1499	Ave		5.3427				6.6		20.0			
Bromochloromethane	0.1284 0.1297	0.1306 0.1313	0.1342	0.1370	0.1307	Ave		0.1317				2.2		20.0			
Tetrahydrofuran	1.5483 1.3898	1.5357 1.4131	1.4452	1.6678	1.4061	Ave		1.4866				6.8		20.0			
Chloroform	0.4259 0.4271	0.4441 0.4282	0.4655	0.4460	0.4292	Ave		0.4380			0.2000	3.4		20.0			
1,1,1-Trichloroethane	0.3682 0.3772	0.3765 0.3819	0.4083	0.3826	0.3803	Ave		0.3821			0.1000	3.3		20.0			
Cyclohexane	0.3514 0.3240	0.3424 0.3362	0.3762	0.3534	0.3486	Ave		0.3475			0.1000	4.7		20.0			
Carbon tetrachloride	0.3098 0.3271	0.3130 0.3404	0.3520	0.3295	0.3303	Ave		0.3289			0.1000	4.5		20.0			
1,1-Dichloropropene	0.3344 0.3239	0.3391 0.3275	0.3783	0.3436	0.3302	Ave		0.3396				5.4		20.0			
Isobutyl alcohol	0.0040 0.0035	0.0035 0.0035	0.0036	0.0035	0.0036	Ave		0.0036				5.3		20.0			
Benzene	1.0137 0.9691	1.0044 0.9700	1.0664	1.0122	0.9747	Ave		1.0015			0.5000	3.5		20.0			
1,2-Dichloroethane	0.3028 0.2669	0.2991 0.2702	0.2930	0.2949	0.2719	Ave		0.2855			0.1000	5.3		20.0			
t-Amyl methyl ether	0.6645 0.6467	0.6622 0.6516	0.6741	0.6704	0.6463	Ave		0.6594				1.7		20.0			
n-Heptane	0.3036 0.2605	0.2903 0.2677	0.3149	0.2897	0.2831	Ave		0.2871				6.6		20.0			
n-Butanol	0.1974 0.2718	0.2570 0.2795	0.2579	0.2757	0.2709	Ave		0.2586				10.9		20.0			
Trichloroethene	0.2822 0.2691	0.2774 0.2738	0.3033	0.2802	0.2709	Ave		0.2796			0.2000	4.1		20.0			
Methylcyclohexane	0.4045 0.3915	0.3997 0.4088	0.4542	0.4293	0.4252	Ave		0.4162			0.1000	5.2		20.0			
1,2-Dichloropropane	0.2360 0.2409	0.2485 0.2430	0.2562	0.2467	0.2429	Ave		0.2449			0.1000	2.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	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								
Methyl methacrylate	9.4928 10.459	10.168 10.755	9.6380	11.724	10.611	Ave		10.407				7.2		20.0			
Dibromomethane	0.1349 0.1326	0.1299 0.1339	0.1400	0.1379	0.1318	Ave		0.1344				2.6		20.0			
1,4-Dioxane	0.0084 0.0576	0.0363 0.0532	0.0586	0.0549	0.0578	Lin2	-0.503	0.0594			0.0050				0.9920		0.9900
Bromodichloromethane	0.2777 0.3038	0.2789 0.3132	0.2991	0.2924	0.2949	Ave		0.2943			0.2000	4.4		20.0			
2-Nitropropane	2.2316 2.4388	2.1338 2.6914	2.0614	2.4994	2.3243	Ave		2.3401				9.4		20.0			
cis-1,3-Dichloropropene	0.3279 0.3901	0.3438 0.3988	0.3562	0.3731	0.3797	Ave		0.3671			0.2000	7.0		20.0			
4-Methyl-2-pentanone (MIBK)	13.414 12.675	13.132 12.621	12.971	14.741	12.720	Ave		13.182			0.1000	5.6		20.0			
Toluene	0.8603 0.8405	0.8617 0.8434	0.9414	0.8781	0.8467	Ave		0.8674			0.4000	4.0		20.0			
trans-1,3-Dichloropropene	0.3451 0.4212	0.3423 0.4346	0.3711	0.3901	0.4004	Ave		0.3864			0.1000	9.2		20.0			
Ethyl methacrylate	0.3178 0.3541	0.3039 0.3583	0.3247	0.3373	0.3335	Ave		0.3328				5.8		20.0			
1,1,2-Trichloroethane	0.2596 0.2488	0.2551 0.2487	0.2682	0.2560	0.2494	Ave		0.2551			0.1000	2.8		20.0			
Tetrachloroethene	0.4436 0.4166	0.4329 0.4188	0.4833	0.4359	0.4269	Ave		0.4369			0.2000	5.2		20.0			
1,3-Dichloropropane	0.4134 0.4111	0.4179 0.4133	0.4361	0.4240	0.4140	Ave		0.4185				2.1		20.0			
2-Hexanone	8.9214 9.6179	9.4983 9.6918	9.4755	10.658	9.4019	Ave		9.6093			0.1000	5.5		20.0			
Dibromochloromethane	0.2258 0.3074	0.2493 0.3246	0.2752	0.2842	0.2866	Ave		0.2790				12.0		20.0			
1,2-Dibromoethane (EDB)	0.2447 0.2523	0.2417 0.2531	0.2589	0.2567	0.2507	Ave		0.2511			0.1000	2.5		20.0			
1-Chlorohexane	0.5490 0.4480	0.4868 0.4594	0.5262	0.4744	0.4594	Ave		0.4862				7.8		20.0			
Chlorobenzene	1.0482 1.0083	1.0601 1.0055	1.1566	1.0573	1.0132	Ave		1.0499			0.5000	5.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	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								
1,1,1,2-Tetrachloroethane	0.2938 0.3519	0.3212 0.3637	0.3419	0.3427	0.3438	Ave		0.3370				6.8		20.0			
Ethylbenzene	1.6784 1.6334	1.6670 1.6426	1.8094	1.6932	1.6472	Ave		1.6816			0.1000	3.6		20.0			
m&p-Xylene	0.6469 0.6636	0.6606 0.6717	0.7412	0.6842	0.6627	Ave		0.6759			0.1000	4.6		20.0			
o-Xylene	0.6588 0.6598	0.6540 0.6672	0.7102	0.6763	0.6606	Ave		0.6696			0.3000	2.9		20.0			
Styrene	1.0568 1.1343	1.0818 1.1457	1.2498	1.1465	1.1246	Ave		1.1342			0.3000	5.4		20.0			
Bromoform	0.1170 0.1861	0.1199 0.2036	0.1523	0.1536	0.1668	Ave		0.1570			0.1000	20.3	*	20.0			
Isopropylbenzene	1.6553 1.6820	1.6901 1.6850	1.8459	1.7215	1.7026	Ave		1.7118			0.1000	3.7		20.0			
1,1,2,2-Tetrachloroethane	0.5362 0.5348	0.5068 0.5294	0.5612	0.5429	0.5278	Ave		0.5342			0.3000	3.1		20.0			
Bromobenzene	0.7422 0.7469	0.7508 0.7407	0.8801	0.7780	0.7496	Ave		0.7697				6.5		20.0			
trans-1,4-Dichloro-2-butene	4.1093 5.1577	4.4104 5.3912	4.6035	5.3346	4.9205	Ave		4.8467				10.1		20.0			
1,2,3-Trichloropropane	0.1557 0.1524	0.1486 0.1521	0.1630	0.1531	0.1490	Ave		0.1534				3.2		20.0			
N-Propylbenzene	3.3134 3.2595	3.3169 3.2002	3.7553	3.3749	3.3206	Ave		3.3630				5.4		20.0			
2-Chlorotoluene	0.7494 0.7128	0.7310 0.7169	0.8148	0.7280	0.7237	Ave		0.7395				4.8		20.0			
1,3,5-Trimethylbenzene	2.4462 2.4797	2.4910 2.4712	2.7107	2.5334	2.5017	Ave		2.5191				3.5		20.0			
4-Chlorotoluene	0.7402 0.7391	0.7448 0.7436	0.9316	0.7592	0.7517	Ave		0.7729				9.1		20.0			
tert-Butylbenzene	0.5675 0.5876	0.5700 0.5499	0.6245	0.5593	0.6048	Ave		0.5805				4.6		20.0			
Pentachloroethane	0.3155 0.4701	0.3711 0.4858	0.4066	0.4193	0.4393	Ave		0.4154				14.1		20.0			
1,2,4-Trimethylbenzene	2.4618 2.5720	2.5342 2.5672	2.8300	2.6244	2.5763	Ave		2.5951				4.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	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								
sec-Butylbenzene	3.0209 3.0995	3.0817 3.0692	3.5161	3.1802	3.1487	Ave		3.1595				5.2		20.0			
1,3-Dichlorobenzene	1.5442 1.5232	1.5453 1.5246	1.8960	1.5646	1.5295	Ave		1.5896			0.6000	8.5		20.0			
p-Isopropyltoluene	2.7640 2.8429	2.7684 2.8386	3.1775	2.9138	2.8617	Ave		2.8810				4.9		20.0			
1,4-Dichlorobenzene	1.6405 1.5530	1.6011 1.5446	2.1605	1.5914	1.5595	Ave		1.6644			0.5000	13.3		20.0			
1,2,3-Trimethylbenzene	1.1622 1.1557	1.2054 1.1712	1.2839	1.1941	1.1676	Ave		1.1914				3.7		20.0			
Benzyl chloride	0.1168 0.2030	0.1277 0.2213	0.1528	0.1677	0.1857	Lin1	-0.036	0.2132							0.9950		0.9900
n-Butylbenzene	1.3860 1.3654	1.3448 1.3744	1.6035	1.3852	1.3906	Ave		1.4071				6.3		20.0			
1,2-Dichlorobenzene	1.4594 1.4234	1.4457 1.4307	1.7714	1.4790	1.4319	Ave		1.4916			0.4000	8.4		20.0			
1,2-Dibromo-3-Chloropropane	0.0658 0.0888	0.0624 0.0903	0.0820	0.0794	0.0820	Ave		0.0787			0.0500	13.6		20.0			
1,3,5-Trichlorobenzene	1.2395 1.2312	1.2450 1.2236	1.5527	1.2483	1.2304	Ave		1.2815				9.4		20.0			
1,2,4-Trichlorobenzene	1.1208 1.1481	1.0886 1.1425	1.6215	1.1511	1.1395	Ave		1.2017			0.2000	15.5		20.0			
Hexachlorobutadiene	0.5384 0.5484	0.5610 0.5478	0.6878	0.5522	0.5513	Ave		0.5695				9.2		20.0			
Naphthalene	1.8901 2.0290	1.8524 2.0047	2.5023	1.9831	1.9750	Ave		2.0338				10.6		20.0			
1,2,3-Trichlorobenzene	1.0098 1.0256	0.9910 1.0107	1.3766	1.0111	1.0095	Ave		1.0621				13.1		20.0			
Dibromofluoromethane (Surr)	0.2463 0.2469	0.2483 0.2506	0.2474	0.2505	0.2479	Ave		0.2483				0.7		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0544 0.0519	0.0530 0.0521	0.0525	0.0529	0.0523	Ave		0.0527				1.6		20.0			
Toluene-d8 (Surr)	1.2730 1.2819	1.2824 1.2832	1.2802	1.2839	1.2798	Ave		1.2806				0.3		20.0			
4-Bromofluorobenzene (Surr)	0.4749 0.4773	0.4762 0.4769	0.4759	0.4777	0.4778	Ave		0.4767				0.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-286414/13	GG16X12.D
Level 2	IC 410-286414/14	GG16X13.D
Level 3	IC 410-286414/15	GG16X14.D
Level 4	IC 410-286414/16	GG16X15.D
Level 5	IC 410-286414/17	GG16X16.D
Level 6	ICIS 410-286414/18	GG16X17.D
Level 7	IC 410-286414/19	GG16X18.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	10833 543104	29864 1418980	64970	121942	309456	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	13270 623926	35763 1527322	71408	135367	324413	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	12126 651365	34951 1653785	75827	139755	342332	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	17469 549707	33291 1383220	66066	121727	300502	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	9970 522151	27671 1340018	56777	108098	269090	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	7546 394390	20330 1011950	43829	82418	202614	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	18929 949402	50922 2394155	107037	201792	493140	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	16549 882397	48579 2300799	99801	194398	486482	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	8083 441887	22237 1130526	44254	87075	209424	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 123a	FB	Ave	13369 607384	34418 1564197	71956	130855	327426	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd 10	Ave	69888 3027113	151628 7837578	296541	643594	1523859	10.00 500	25.0 1250	50.0	100.0	250
1,1-Dichloroethene	FB	Ave	9511 472163	23932 1255687	52396	96997	245013	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 113	FB	Ave	9199 445620	23226 1192898	51784	97302	244299	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Acetone	TBAd10	Ave	18527 611780	33136 1587280	67653	132378	314354	2.00 100	5.00 250	10.0	20.0	50.0
Methyl iodide	FB	Ave	18105 916804	46041 2358489	95536	185762	459604	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon disulfide	FB	Ave	21688 1259914	54155 3472934	120809	228472	605450	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd10	Ave	5494 179295	12070 495870	18773	41982	97635	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	13371 654957	32910 1714730	68077	126514	322428	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	10782 533973	26736 1383829	54805	110925	266839	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd10	Ave	10628 451212	26043 1120844	47324	95457	227979	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd10	Ave	4319 225968	10330 585945	22478	50401	118213	0.500 25.0	1.25 62.5	2.50	5.00	12.5
Methyl tert-butyl ether	FB	Ave	28492 1380419	68201 3535898	140874	281948	689081	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	11005 565209	28136 1463454	60166	115672	280004	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	12394 578952	30635 1547621	67189	124939	320065	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	17921 919788	45372 2399785	96997	184918	463810	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	29808 1541107	75661 3956491	156342	308794	763339	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	13953 738815	35647 1923095	78331	148170	367689	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	31075 1581755	78529 4048605	158948	318098	782406	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone (MEK)	TBAd10	Ave	29312	66177	137933	273098	657590	2.00	5.00	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 Env Job No.: 410-103501-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

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
			1313238	3350978				100	250			
cis-1,2-Dichloroethene	FB	Ave	12099 618550	30021 1611946	65758	125389	311354	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	14359 750727	35373 1962445	81208	147961	374656	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Propionitrile	TBAd 10	Ave	12758 652308	31618 1672892	64922	129473	309435	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd 10	Ave	29393 1436385	68072 3743786	140534	302812	730347	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	5663 302068	14558 784323	29925	61518	150087	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd 10	Ave	4124 198158	9877 507621	19791	41668	99709	1.00 50.0	2.50 125	5.00	10.0	25.0
Chloroform	FB	Ave	18779 994318	49500 2557412	103813	200225	492942	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	16235 878121	41961 2280597	91058	171777	436738	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	15495 754352	38165 2007902	83885	158669	400341	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	13659 761646	34892 2033131	78504	147932	379275	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	14746 754145	37795 1956120	84366	154228	379228	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	FB	Ave	8806 402616	19769 1033218	39678	77842	207990	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	44699 2256270	111956 5793032	237804	454392	1119385	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	13351 621312	33333 1613440	65349	132376	312259	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	29301 1505621	73806 3891489	150323	300963	742232	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	13386 606617	32359 1598920	70226	130073	325135	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

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
n-Butanol	TBAd10	Ave	9201 678077	28924 1757161	61810	120549	336181	17.5 875	43.8 2188	87.5	175	438
Trichloroethene	FB	Ave	12445 626486	30922 1634955	67641	125798	311065	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	17837 911479	44548 2441489	101289	192698	488253	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	10406 560993	27694 1450984	57142	110737	278961	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl methacrylate	TBAd10	Ave	5057 298228	13080 772725	26397	58583	150481	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromomethane	FB	Ave	5946 308678	14481 799889	31212	61890	151360	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBAd10	Lin2	225 82057	2333 191177	8023	13711	40992	10.0 500	25.0 1250	50.0	100	250
Bromodichloromethane	FB	Ave	12244 707245	31086 1870494	66707	131278	338682	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBAd10	Ave	5944 347717	13724 966836	28229	62444	164814	1.00 50.0	2.50 125	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	14460 908206	38315 2381867	79430	167481	436053	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone (MIBK)	TBAd10	Ave	71460 3614306	168921 9067989	355253	736571	1803882	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd5	Ave	29966 1543929	75624 3979367	166283	310469	768926	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd5	Ave	12020 773723	30039 2050452	65556	137931	363656	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd5	Ave	11070 650478	26673 1690447	57347	119274	302877	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,1,2-Trichloroethane	CBZd 5	Ave	9043 457075	22386 1173341	47367	90526	226496	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd 5	Ave	15452 765371	37991 1975922	85370	154129	387678	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd 5	Ave	14400 755285	36673 1950083	77024	149909	375996	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBAd 10	Ave	47526 2742555	122181 6963294	259520	532561	1333367	2.00 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd 5	Ave	7866 564766	21881 1531577	48615	100469	260325	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane (EDB)	CBZd 5	Ave	8523 463425	21212 1193896	45733	90775	227669	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd 5	Ave	19124 822913	42721 2167500	92947	167744	417226	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chlorobenzene	CBZd 5	Ave	36514 1852203	93034 4743809	204292	373854	920189	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd 5	Ave	10235 646499	28190 1716072	60398	121181	312197	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd 5	Ave	58464 3000498	146301 7749772	319592	598666	1495963	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd 5	Ave	45066 2438249	115958 6338596	261822	483843	1203658	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd 5	Ave	22948 1212115	57392 3147850	125445	239128	599982	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

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
Styrene	CBZd 5	Ave	36813 2083651	94941 5405404	220754	405386	1021299	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd 5	Ave	4074 341791	10522 960530	26899	54321	151523	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd 5	Ave	57659 3089905	148324 7949878	326045	608693	1546232	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	11082 586290	26537 1506637	58969	114734	283824	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd 4	Ave	15338 818805	39314 2107684	92485	164416	403102	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	TBAd 10	Ave	21891 1470724	56733 3873432	126083	266551	697816	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	3217 167099	7781 432760	17133	32366	80131	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd 4	Ave	68475 3573339	173695 9106742	394622	713265	1785725	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd 4	Ave	15487 781491	38278 2040219	85619	153864	389174	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd 4	Ave	50554 2718476	130441 7032261	284846	535420	1345338	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd 4	Ave	15297 810236	39001 2115951	97891	160453	404234	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd 4	Ave	11728 644132	29851 1564947	65628	118213	325244	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

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
Pentachloroethane	DCBd 4	Ave	6521 515383	19435 1382400	42730	88614	236231	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd 4	Ave	50876 2819726	132706 7305524	297385	554653	1385450	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd 4	Ave	62431 3397918	161376 8733955	369489	672099	1693291	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichlorobenzene	DCBd 4	Ave	31913 1669850	80921 4338435	199241	330665	822505	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd 4	Ave	57121 3116611	144968 8077811	333901	615806	1538963	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd 4	Ave	33904 1702506	83845 4395359	227035	336330	838636	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd 4	Ave	24019 1267015	63120 3332795	134921	252371	627888	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd 4	Lin1	2414 222558	6688 629836	16060	35450	99881	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd 4	Ave	28644 1496880	70421 3911257	168500	292758	747850	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd 4	Ave	30160 1560520	75705 4071402	186141	312578	770054	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1359 97321	3270 256886	8619	16770	44123	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd 4	Ave	25616 1349753	65196 3481934	163162	263813	661659	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2,4-Trichlorobenzene	DCBd 4	Ave	23162 1258666	57005 3251198	170397	243272	612781	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd 4	Ave	11127 601182	29376 1558972	72272	116692	296487	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd 4	Ave	39062 2224425	97004 5704671	262955	419110	1062115	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd 4	Ave	20869 1124358	51896 2876206	144662	213681	542883	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	542956 574786	553438 598690	551657	562381	569458	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	119857 120860	118255 124380	117134	118676	120145	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd 5	Ave	2217229 2354853	2250850 2421715	2261224	2269767	2324549	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	827194 876789	835927 899968	840581	844497	867829	10.0 10.0	10.0 10.0	10.0	10.0	10.0

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-286414/13	GG16X12.D
Level 2	IC 410-286414/14	GG16X13.D
Level 3	IC 410-286414/15	GG16X14.D
Level 4	IC 410-286414/16	GG16X15.D
Level 5	IC 410-286414/17	GG16X16.D
Level 6	ICIS 410-286414/18	GG16X17.D
Level 7	IC 410-286414/19	GG16X18.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	-5.3 -8.5	3.2	12.2	4.7	3.8	-10.1	50 30	30	30	30	30	30
Chloromethane	2.8 -12.7	9.6	9.4	3.0	-3.5	-8.5	50 30	30	30	30	30	30
Vinyl chloride	-8.1 -7.5	4.8	13.6	4.0	-0.4	-6.5	50 30	30	30	30	30	30
1,3-Butadiene	39.2 -18.6	5.0	4.1	-4.7	-8.0	-17.0	50 30	30	30	30	30	30
Bromomethane	-4.2 -5.0	5.1	7.8	2.0	-0.8	-5.0	50 30	30	30	30	30	30
Chloroethane	-4.1 -5.0	2.2	10.2	2.9	-1.1	-5.1	50 30	30	30	30	30	30
Dichlorofluoromethane	-1.6 -8.1	4.7	10.0	3.0	-1.6	-6.5	50 30	30	30	30	30	30
Trichlorofluoromethane	-8.8 -6.4	5.9	8.8	5.3	3.0	-7.9	50 30	30	30	30	30	30
Ethyl ether	-4.0 -0.9	4.5	3.9	1.6	-4.5	-0.6	50 30	30	30	30	30	30
Freon 123a	4.3 -9.9	6.3	11.0	0.3	-1.9	-10.2	50 30	30	30	30	30	30
Acrolein	13.5 -5.6	2.0	-6.3	11.5	-7.0	-8.1	50 30	30	30	30	30	30
1,1-Dichloroethene	0.1 -2.4	-0.3	9.1	0.3	-1.0	-5.9	50 30	30	30	30	30	30
Freon 113	-0.6 -4.9	-0.8	10.6	3.2	1.3	-8.8	50 30	30	30	30	30	30
Acetone	37.2 -12.8	1.6	-2.6	4.5	-12.6	-15.4	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 Env Job No.: 410-103501-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Methyl iodide	0.7 -3.2	1.3	5.0	1.5	-1.9	-3.4	50 30	30	30	30	30	30
Carbon disulfide	-6.4 10.7	-7.5	3.1	-3.1	0.3	3.0	50 30	30	30	30	30	30
Methyl acetate	31.2 -12.2	19.4	-12.8	6.9	-12.4	-20.0	50 30	30	30	30	30	30
Allyl chloride	4.3 -1.2	1.6	5.0	-3.0	-3.4	-3.2	50 30	30	30	30	30	30
Methylene Chloride	2.5 -2.9	0.5	3.0	3.5	-2.6	-3.9	50 30	30	30	30	30	30
t-Butyl alcohol	12.6 -12.0	14.2	-2.5	7.8	-9.3	-10.7	50 30	30	30	30	30	30
Acrylonitrile	-3.6 -3.0	-4.5	-2.4	20.0	-0.8	-5.7	50 30	30	30	30	30	30
Methyl tert-butyl ether	5.1 -3.7	-0.5	2.8	2.2	-2.4	-3.5	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-0.8 -2.6	0.3	7.2	2.4	-3.1	-3.5	50 30	30	30	30	30	30
n-Hexane	2.4 -5.6	0.1	9.7	1.4	1.5	-9.4	50 30	30	30	30	30	30
1,1-Dichloroethane	-0.6 -1.7	-0.4	6.4	0.8	-1.2	-3.3	50 30	30	30	30	30	30
di-Isopropyl ether	0.0 -2.0	0.4	3.7	1.7	-1.7	-2.1	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-2.7 -1.0	-1.7	8.0	1.5	-1.6	-2.5	50 30	30	30	30	30	30
Ethyl t-butyl ether	1.3 -2.5	1.3	2.5	1.9	-2.1	-2.3	50 30	30	30	30	30	30
2-Butanone (MEK)	9.9 -6.9	2.7	0.6	9.1	-7.4	-8.0	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-0.2 -1.8	-2.0	7.3	1.6	-1.4	-3.4	50 30	30	30	30	30	30
2,2-Dichloropropane	-1.5 -0.6	-4.0	10.2	-0.3	-1.3	-2.5	50 30	30	30	30	30	30
Propionitrile	0.9 -1.9	3.6	-0.1	9.2	-8.1	-3.6	50 30	30	30	30	30	30
Methacrylonitrile	3.3 -2.5	-1.0	-4.0	13.4	-3.6	-5.7	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

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
Bromochloromethane	-2.5 -0.3	-0.8	1.9	4.0	-0.8	-1.5	50 30	30	30	30	30	30
Tetrahydrofuran	4.2 -4.9	3.3	-2.8	12.2	-5.4	-6.5	50 30	30	30	30	30	30
Chloroform	-2.8 -2.2	1.4	6.3	1.8	-2.0	-2.5	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-3.6 -0.1	-1.5	6.9	0.1	-0.5	-1.3	50 30	30	30	30	30	30
Cyclohexane	1.1 -3.2	-1.5	8.3	1.7	0.3	-6.8	50 30	30	30	30	30	30
Carbon tetrachloride	-5.8 3.5	-4.8	7.0	0.2	0.4	-0.5	50 30	30	30	30	30	30
1,1-Dichloropropene	-1.5 -3.5	-0.1	11.4	1.2	-2.8	-4.6	50 30	30	30	30	30	30
Isobutyl alcohol	11.4 -3.5	-1.1	-0.8	-3.3	1.0	-3.6	50 30	30	30	30	30	30
Benzene	1.2 -3.1	0.3	6.5	1.1	-2.7	-3.2	50 30	30	30	30	30	30
1,2-Dichloroethane	6.0 -5.4	4.7	2.6	3.3	-4.8	-6.5	50 30	30	30	30	30	30
t-Amyl methyl ether	0.8 -1.2	0.4	2.2	1.7	-2.0	-1.9	50 30	30	30	30	30	30
n-Heptane	5.7 -6.8	1.1	9.7	0.9	-1.4	-9.3	50 30	30	30	30	30	30
n-Butanol	-23.7 8.1	-0.6	-0.3	6.6	4.8	5.1	50 30	30	30	30	30	30
Trichloroethene	1.0 -2.1	-0.8	8.5	0.2	-3.1	-3.7	50 30	30	30	30	30	30
Methylcyclohexane	-2.8 -1.8	-4.0	9.1	3.1	2.2	-5.9	50 30	30	30	30	30	30
1,2-Dichloropropane	-3.6 -0.8	1.5	4.6	0.7	-0.8	-1.6	50 30	30	30	30	30	30
Methyl methacrylate	-8.8 3.3	-2.3	-7.4	12.7	2.0	0.5	50 30	30	30	30	30	30
Dibromomethane	0.3 -0.4	-3.3	4.1	2.6	-1.9	-1.4	50 30	30	30	30	30	30
1,4-Dioxane	-1.1 -9.7	-5.0	15.6	0.9	0.7	-1.4	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

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
Bromodichloromethane	-5.6 6.4	-5.2	1.6	-0.6	0.2	3.2	50 30	30	30	30	30	30
2-Nitropropane	-4.6 15.0	-8.8	-11.9	6.8	-0.7	4.2	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-10.7 8.6	-6.4	-3.0	1.6	3.4	6.3	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	1.8 -4.3	-0.4	-1.6	11.8	-3.5	-3.8	50 30	30	30	30	30	30
Toluene	-0.8 -2.8	-0.7	8.5	1.2	-2.4	-3.1	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-10.7 12.5	-11.4	-3.9	1.0	3.6	9.0	50 30	30	30	30	30	30
Ethyl methacrylate	-4.5 7.7	-8.7	-2.4	1.4	0.2	6.4	50 30	30	30	30	30	30
1,1,2-Trichloroethane	1.8 -2.5	0.0	5.1	0.4	-2.2	-2.5	50 30	30	30	30	30	30
Tetrachloroethene	1.5 -4.1	-0.9	10.6	-0.2	-2.3	-4.6	50 30	30	30	30	30	30
1,3-Dichloropropane	-1.2 -1.2	-0.2	4.2	1.3	-1.1	-1.8	50 30	30	30	30	30	30
2-Hexanone	-7.2 0.9	-1.2	-1.4	10.9	-2.2	0.1	50 30	30	30	30	30	30
Dibromochloromethane	-19.1 16.3	-10.6	-1.4	1.8	2.7	10.2	50 30	30	30	30	30	30
1,2-Dibromoethane (EDB)	-2.6 0.8	-3.8	3.1	2.2	-0.2	0.4	50 30	30	30	30	30	30
1-Chlorohexane	12.9 -5.5	0.1	8.2	-2.4	-5.5	-7.9	50 30	30	30	30	30	30
Chlorobenzene	-0.2 -4.2	1.0	10.2	0.7	-3.5	-4.0	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-12.8 7.9	-4.7	1.5	1.7	2.0	4.4	50 30	30	30	30	30	30
Ethylbenzene	-0.2 -2.3	-0.9	7.6	0.7	-2.0	-2.9	50 30	30	30	30	30	30
m&p-Xylene	-4.3 -0.6	-2.3	9.7	1.2	-1.9	-1.8	50 30	30	30	30	30	30
o-Xylene	-1.6 -0.4	-2.3	6.1	1.0	-1.3	-1.5	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 Env Job No.: 410-103501-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

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
Styrene	-6.8 1.0	-4.6	10.2	1.1	-0.9	0.0	50 30	30	30	30	30	30
Bromoform	-25.5 29.6	-23.7	-3.0	-2.2	6.2	18.5	50 30	30	30	30	30	30
Isopropylbenzene	-3.3 -1.6	-1.3	7.8	0.6	-0.5	-1.7	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	0.4 -0.9	-5.1	5.1	1.6	-1.2	0.1	50 30	30	30	30	30	30
Bromobenzene	-3.6 -3.8	-2.5	14.3	1.1	-2.6	-3.0	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-15.2 11.2	-9.0	-5.0	10.1	1.5	6.4	50 30	30	30	30	30	30
1,2,3-Trichloropropane	1.5 -0.9	-3.1	6.3	-0.2	-2.9	-0.7	50 30	30	30	30	30	30
N-Propylbenzene	-1.5 -4.8	-1.4	11.7	0.4	-1.3	-3.1	50 30	30	30	30	30	30
2-Chlorotoluene	1.3 -3.1	-1.2	10.2	-1.6	-2.1	-3.6	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-2.9 -1.9	-1.1	7.6	0.6	-0.7	-1.6	50 30	30	30	30	30	30
4-Chlorotoluene	-4.2 -3.8	-3.6	20.5	-1.8	-2.7	-4.4	50 30	30	30	30	30	30
tert-Butylbenzene	-2.2 -5.3	-1.8	7.6	-3.6	4.2	1.2	50 30	30	30	30	30	30
Pentachloroethane	-24.0 16.9	-10.7	-2.1	0.9	5.7	13.2	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-5.1 -1.1	-2.3	9.0	1.1	-0.7	-0.9	50 30	30	30	30	30	30
sec-Butylbenzene	-4.4 -2.9	-2.5	11.3	0.7	-0.3	-1.9	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-2.9 -4.1	-2.8	19.3	-1.6	-3.8	-4.2	50 30	30	30	30	30	30
p-Isopropyltoluene	-4.1 -1.5	-3.9	10.3	1.1	-0.7	-1.3	50 30	30	30	30	30	30
1,4-Dichlorobenzene	-1.4 -7.2	-3.8	29.8	-4.4	-6.3	-6.7	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-2.5 -1.7	1.2	7.8	0.2	-2.0	-3.0	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 286414

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/16/2022 17:26 Calibration End Date: 08/16/2022 19:38 Calibration ID: 41911

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
Benzyl chloride	39.0 4.5	-6.4	-11.5	-12.9	-9.5	-3.1	50 30	30	30	30	30	30
n-Butylbenzene	-1.5 -2.3	-4.4	14.0	-1.6	-1.2	-3.0	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-2.2 -4.1	-3.1	18.8	-0.8	-4.0	-4.6	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-16.4 14.8	-20.6	4.3	0.9	4.3	12.8	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-3.3 -4.5	-2.8	21.2	-2.6	-4.0	-3.9	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-6.7 -4.9	-9.4	34.9 *	-4.2	-5.2	-4.5	50 30	30	30	30	30	30
Hexachlorobutadiene	-5.5 -3.8	-1.5	20.8	-3.1	-3.2	-3.7	50 30	30	30	30	30	30
Naphthalene	-7.1 -1.4	-8.9	23.0	-2.5	-2.9	-0.2	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-4.9 -4.8	-6.7	29.6	-4.8	-4.9	-3.4	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-0.8 0.9	0.0	-0.4	0.9	-0.1	-0.6	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	3.1 -1.3	0.6	-0.4	0.3	-0.8	-1.6	50 30	30	30	30	30	30
Toluene-d8 (Surr)	-0.6 0.2	0.1	0.0	0.3	-0.1	0.1	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-0.4 0.0	-0.1	-0.2	0.2	0.2	0.1	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X12.D
Lims ID: IC std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 16-Aug-2022 17:26:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-013
Misc. Info.: IC STD1
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:48:25 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 17-Aug-2022 11:33:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.898	1.892	0.006	98	10833	0.2000	0.1893	
5 Chloromethane	50	2.093	2.087	0.006	97	13270	0.2000	0.2056	
6 Vinyl chloride	62	2.209	2.202	0.007	97	12126	0.2000	0.1838	
7 Butadiene	39	2.215	2.215	0.000	92	17469	0.2000	0.2785	M
9 Bromomethane	94	2.538	2.526	0.012	90	9970	0.2000	0.1915	
10 Chloroethane	64	2.605	2.599	0.006	99	7546	0.2000	0.1918	
11 Dichlorofluoromethane	67	2.855	2.836	0.019	96	18929	0.2000	0.1968	
12 Trichlorofluoromethane	101	2.910	2.904	0.006	92	16549	0.2000	0.1825	
13 Ethyl ether	59	3.135	3.123	0.012	85	8083	0.2001	0.1921	M
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.227	3.221	0.006	90	13369	0.2000	0.2087	
17 Acrolein	56	3.300	3.288	0.012	98	69888	10.0	11.4	
18 1,1-Dichloroethene	96	3.428	3.416	0.012	97	9511	0.2000	0.2003	
20 Acetone	43	3.489	3.458	0.031	72	18527	2.00	2.74	M
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.465	3.464	0.000	86	9199	0.2000	0.1987	
21 Iodomethane	142	3.623	3.605	0.018	98	18105	0.2000	0.2014	
22 Ethyl bromide	108	3.635	3.629	0.006	94	8307	0.2000	0.1905	
24 Isopropyl alcohol	45	3.721	3.690	0.031	29	6073	4.00	4.98	
23 Carbon disulfide	76	3.714	3.702	0.012	98	21688	0.2000	0.1872	M
25 Methyl acetate	43	3.879	3.855	0.024	27	5494	0.2000	0.2624	M
27 3-Chloro-1-propene	41	3.879	3.873	0.006	85	13371	0.2000	0.2086	
29 Methylene Chloride	84	4.068	4.056	0.012	88	10782	0.2000	0.2049	
* 30 t-Butyl alcohol-d10 (IS)	65	4.153	4.141	0.012	62	133180	50.0	50.0	
31 2-Methyl-2-propanol	59	4.306	4.245	0.061	28	10628	4.00	4.50	
32 Acrylonitrile	53	4.416	4.391	0.025	27	4319	0.5000	0.4822	
33 Methyl tert-butyl ether	73	4.452	4.446	0.006	91	28492	0.2000	0.2102	
34 trans-1,2-Dichloroethene	96	4.464	4.458	0.006	96	11005	0.2000	0.1984	
35 Hexane	57	4.885	4.885	0.000	89	12394	0.2000	0.2047	
37 1,1-Dichloroethane	63	5.135	5.123	0.012	41	17921	0.2000	0.1989	M
38 Isopropyl ether	45	5.190	5.184	0.006	92	29808	0.2000	0.2000	
39 2-Chloro-1,3-butadiene	53	5.245	5.232	0.013	89	13953	0.2000	0.1946	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.726	5.720	0.006	96	31075	0.2000	0.2026	
41 2-Butanone (MEK)	43	5.946	5.933	0.013	99	29312	2.00	2.20	
42 cis-1,2-Dichloroethene	96	5.964	5.964	0.000	78	12099	0.2000	0.1996	
43 2,2-Dichloropropane	77	5.988	5.976	0.012	58	14359	0.2000	0.1970	
45 Propionitrile	54	6.055	6.025	0.030	96	12758	4.00	4.04	
S 47 1,2-Dichloroethene, Total	100				0			0.3980	
48 Methacrylonitrile	67	6.257	6.238	0.019	90	29393	2.00	2.07	
49 Chlorobromomethane	128	6.299	6.293	0.006	80	5663	0.2000	0.1950	
50 Tetrahydrofuran	71	6.324	6.299	0.025	73	4124	1.00	1.04	
51 Chloroform	83	6.452	6.452	0.000	92	18779	0.2000	0.1945	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.665	0.006	94	542956	10.0	9.92	
53 1,1,1-Trichloroethane	97	6.671	6.671	0.000	36	16235	0.2000	0.1927	
54 Cyclohexane	56	6.769	6.769	0.000	89	15495	0.2000	0.2023	
56 Carbon tetrachloride	117	6.885	6.884	0.001	83	13659	0.2000	0.1884	
57 1,1-Dichloropropene	75	6.891	6.891	0.000	94	14746	0.2000	0.1970	
58 Isobutyl alcohol	41	7.104	7.073	0.031	89	8806	10.0	11.1	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.122	7.116	0.006	91	119857	10.0	10.3	
60 Benzene	78	7.153	7.153	0.000	95	44699	0.2000	0.2024	
61 1,2-Dichloroethane	62	7.232	7.220	0.012	97	13351	0.2000	0.2121	
63 Tert-amyl methyl ether	73	7.354	7.348	0.006	97	29301	0.2000	0.2016	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2204666	10.0	10.0	
65 n-Heptane	43	7.573	7.573	0.000	36	13386	0.2000	0.2115	
67 n-Butanol	56	7.994	7.970	0.024	96	9201	17.5	13.4	
68 Trichloroethene	95	8.049	8.043	0.006	93	12445	0.2000	0.2019	
69 Methylcyclohexane	83	8.342	8.341	0.001	89	17837	0.2000	0.1944	
70 1,2-Dichloropropane	63	8.372	8.372	0.000	89	10406	0.2000	0.1927	
71 2-ethoxy-2-methyl butane	87	8.396	8.390	0.006	92	16788	0.2000	0.1943	
72 Methyl methacrylate	69	8.482	8.463	0.019	84	5057	0.2000	0.1824	
73 Dibromomethane	93	8.488	8.482	0.006	92	5946	0.2000	0.2006	
74 1,4-Dioxane	88	8.561	8.512	0.049	1	225	10.0	9.89	M
76 Dichlorobromomethane	83	8.732	8.726	0.006	98	12244	0.2000	0.1887	M
77 2-Nitropropane	41	9.000	9.000	0.000	96	5944	1.00	0.9536	M
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	94	10774	0.2000	0.1842	
81 cis-1,3-Dichloropropene	75	9.274	9.280	-0.006	96	14460	0.2000	0.1787	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	96	71460	2.00	2.04	
$ 83 Toluene-d8 (Surr)	98	9.597	9.591	0.006	93	2217229	10.0	9.94	
84 Toluene	92	9.677	9.671	0.007	98	29966	0.2000	0.1983	
85 trans-1,3-Dichloropropene	75	9.945	9.939	0.006	91	12020	0.2000	0.1786	
104 Ethyl methacrylate	69	10.006	10.006	0.000	85	11070	0.2000	0.1910	
S 105 1,3-Dichloropropene, Total	100				0			0.3573	
106 1,1,2-Trichloroethane	97	10.146	10.146	0.000	89	9043	0.2000	0.2035	
107 Tetrachloroethene	166	10.231	10.231	0.000	96	15452	0.2000	0.2031	
108 1,3-Dichloropropane	76	10.305	10.311	-0.006	89	14400	0.2000	0.1975	
109 2-Hexanone	43	10.372	10.365	0.007	95	47526	2.00	1.86	
111 Chlorodibromomethane	129	10.524	10.524	0.000	88	7866	0.2000	0.1619	
112 Ethylene Dibromide	107	10.634	10.634	0.000	97	8523	0.2000	0.1948	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1741668	10.0	10.0	
114 1-Chlorohexane	91	11.085	11.085	0.000	92	19124	0.2000	0.2259	
115 Chlorobenzene	112	11.097	11.097	0.000	96	36514	0.2000	0.1997	
117 1,1,1,2-Tetrachloroethane	131	11.183	11.182	0.001	89	10235	0.2000	0.1744	
116 Ethylbenzene	91	11.189	11.189	0.001	98	58464	0.2000	0.1996	
S 118 Xylenes, Total	106				0			0.5796	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 m-Xylene & p-Xylene	106	11.304	11.304	0.000	100	45066	0.4000	0.3829	
120 o-Xylene	106	11.634	11.634	0.000	95	22948	0.2000	0.1968	
121 Styrene	104	11.652	11.652	0.000	94	36813	0.2000	0.1864	
122 Bromoform	173	11.810	11.804	0.006	95	4074	0.2000	0.1490	
123 Isopropylbenzene	105	11.938	11.938	0.000	95	57659	0.2000	0.1934	
$ 126 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	94	827194	10.0	9.96	
127 1,1,2,2-Tetrachloroethane	83	12.188	12.188	0.000	93	11082	0.2000	0.2008	
128 Bromobenzene	156	12.195	12.194	0.000	90	15338	0.2000	0.1928	
129 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	85	21891	2.00	1.70	
130 1,2,3-Trichloropropane	110	12.231	12.231	0.000	81	3217	0.2000	0.2029	
131 N-Propylbenzene	91	12.268	12.268	0.000	98	68475	0.2000	0.1970	
132 2-Chlorotoluene	126	12.341	12.341	0.000	97	15487	0.2000	0.2027	
133 1,3,5-Trimethylbenzene	105	12.402	12.402	0.000	93	50554	0.2000	0.1942	
134 4-Chlorotoluene	126	12.438	12.438	0.000	96	15297	0.2000	0.1915	
135 tert-Butylbenzene	134	12.646	12.646	0.000	92	11728	0.2000	0.1955	
136 Pentachloroethane	167	12.676	12.676	0.000	73	6521	0.2000	0.1519	
137 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	96	50876	0.2000	0.1897	
138 sec-Butylbenzene	105	12.810	12.810	0.000	94	62431	0.2000	0.1912	
139 1,3-Dichlorobenzene	146	12.908	12.908	0.000	97	31913	0.2000	0.1943	
140 4-Isopropyltoluene	119	12.914	12.920	-0.006	97	57121	0.2000	0.1919	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	94	1033318	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.981	12.981	0.000	95	33904	0.2000	0.1971	
143 1,2,3-Trimethylbenzene	120	12.993	12.993	0.000	97	24019	0.2000	0.1951	
144 Benzyl chloride	126	13.060	13.060	0.000	98	2414	0.2000	0.2780	
145 p-Diethylbenzene	119	13.121	13.121	0.000	91	32778	0.2000	0.1850	
146 n-Butylbenzene	92	13.213	13.206	0.007	97	28644	0.2000	0.1970	
147 1,2-Dichlorobenzene	146	13.243	13.243	0.000	99	30160	0.2000	0.1957	
149 1,2-Dibromo-3-Chloropropane	155	13.786	13.786	0.000	84	1359	0.2000	0.1672	
150 1,3,5-Trichlorobenzene	180	13.908	13.907	0.001	98	25616	0.2000	0.1934	
151 1,2,4-Trichlorobenzene	180	14.334	14.328	0.006	93	23162	0.2000	0.1865	
152 Hexachlorobutadiene	225	14.414	14.413	0.001	96	11127	0.2000	0.1891	
153 Naphthalene	128	14.511	14.511	0.000	97	39062	0.2000	0.1859	
154 1,2,3-Trichlorobenzene	180	14.657	14.651	0.006	96	20869	0.2000	0.1902	
155 2-Methylnaphthalene	142	15.267	15.261	0.006	92	21856	0.2000	0.1885	
166 Pentane	43	2.922	2.916	0.006	90	10860	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00052	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00108	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00056	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00037	Amount Added:	1.00	Units: uL	Run Reagent

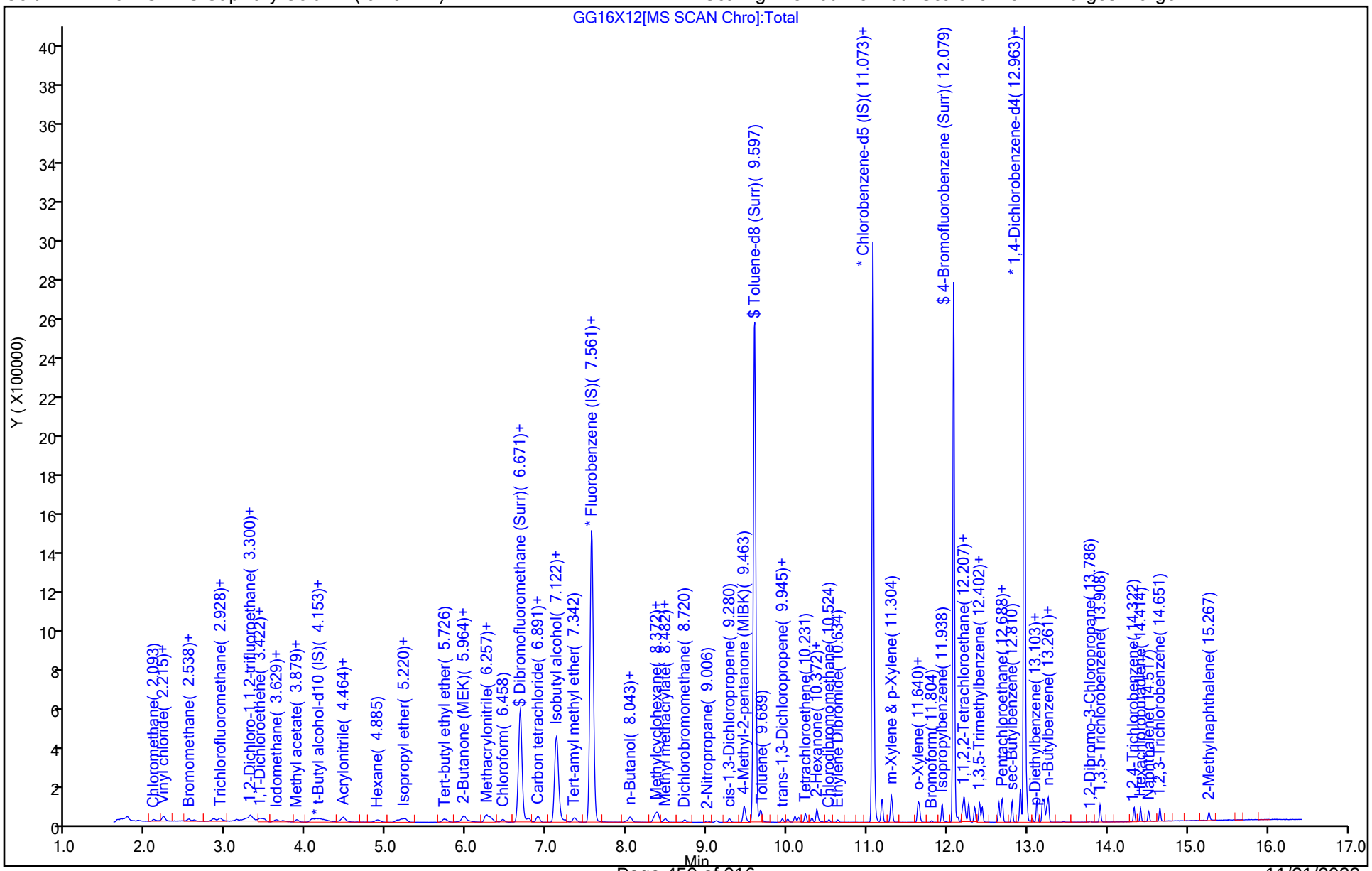
Report Date: 30-Aug-2022 10:48:25 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X12.D

Injection Date:	16-Aug-2022 17:26:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std1			Worklist Smp#:	13
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



11/21/2022
12:36 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

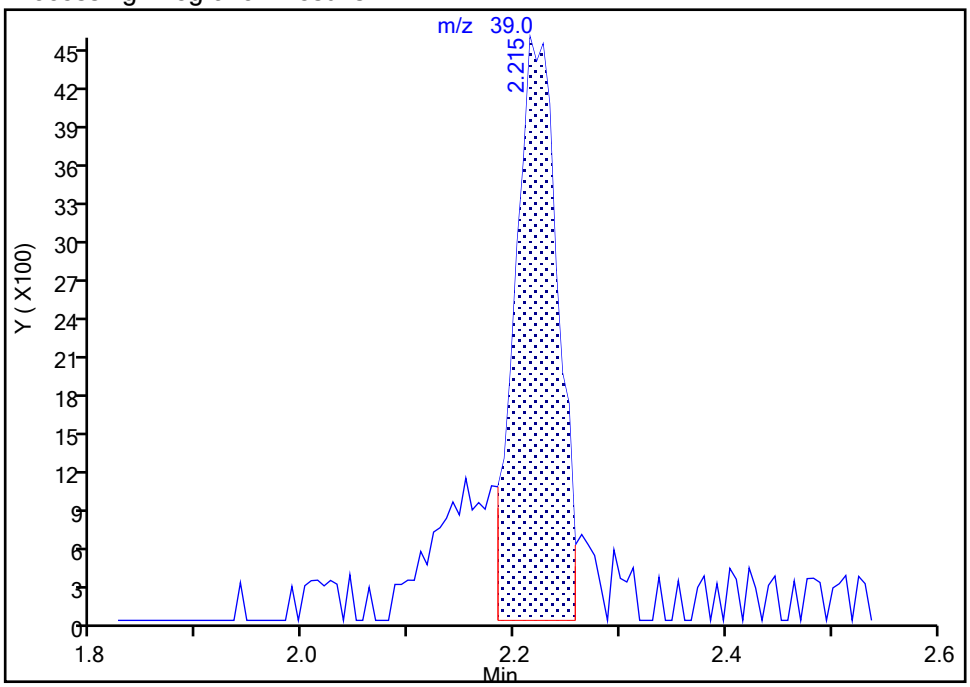
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X12.D				
Injection Date:	16-Aug-2022 17:26:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

7 Butadiene, CAS: 106-99-0

Signal: 1

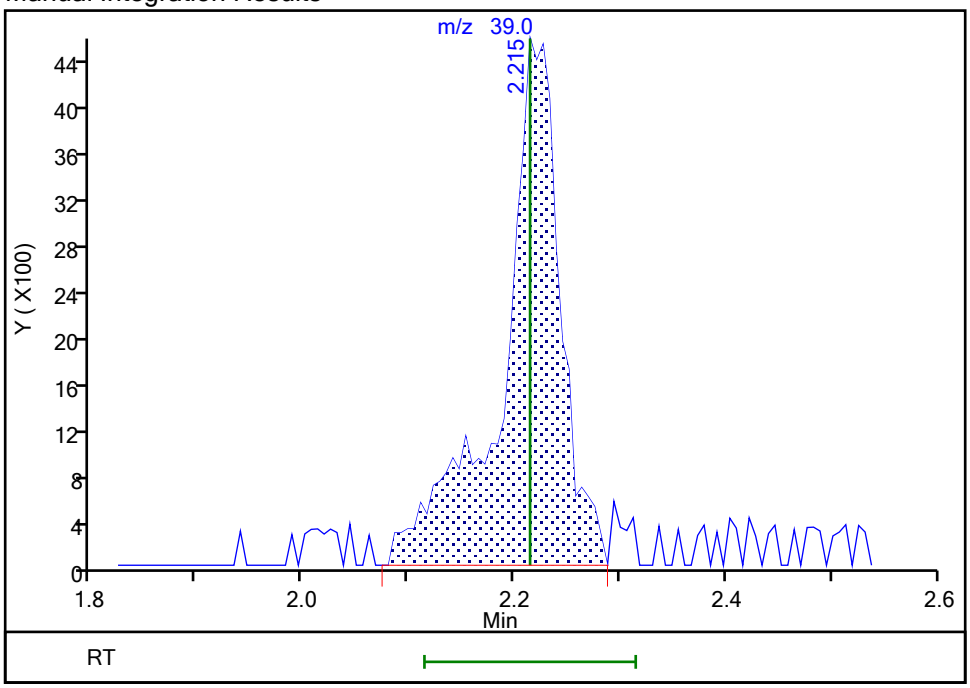
Processing Integration Results

RT: 2.21
Area: 12773
Amount: 0.218355
Amount Units: ug/l



Manual Integration Results

RT: 2.21
Area: 17469
Amount: 0.278490
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:31:24

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

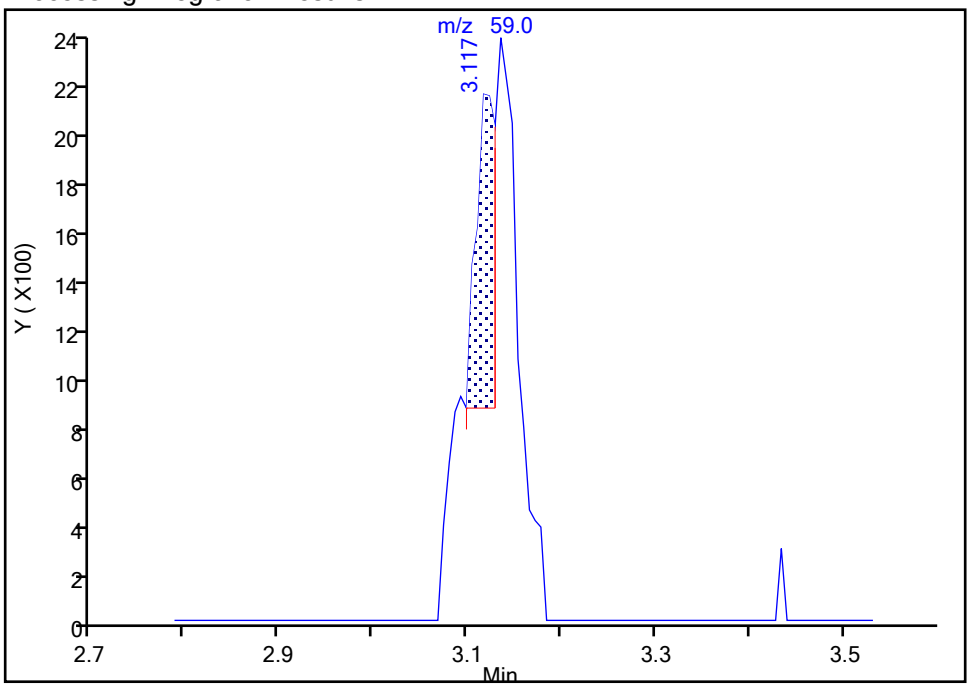
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X12.D				
Injection Date:	16-Aug-2022 17:26:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

13 Ethyl ether, CAS: 60-29-7

Signal: 1

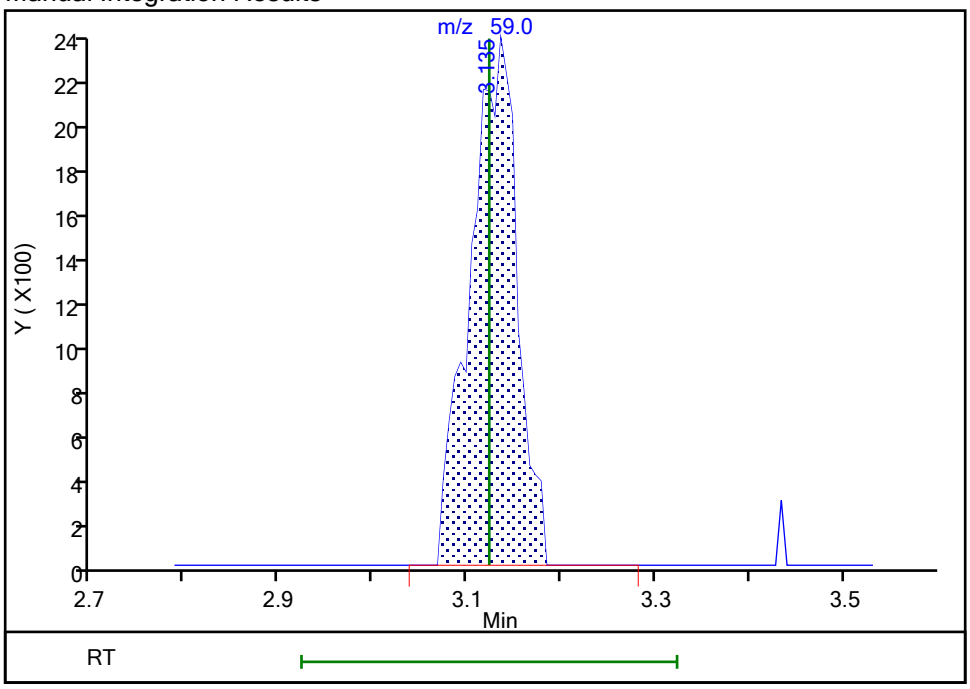
Processing Integration Results

RT: 3.12
Area: 1789
Amount: 0.127516
Amount Units: ug/l



Manual Integration Results

RT: 3.14
Area: 8083
Amount: 0.192054
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:31:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

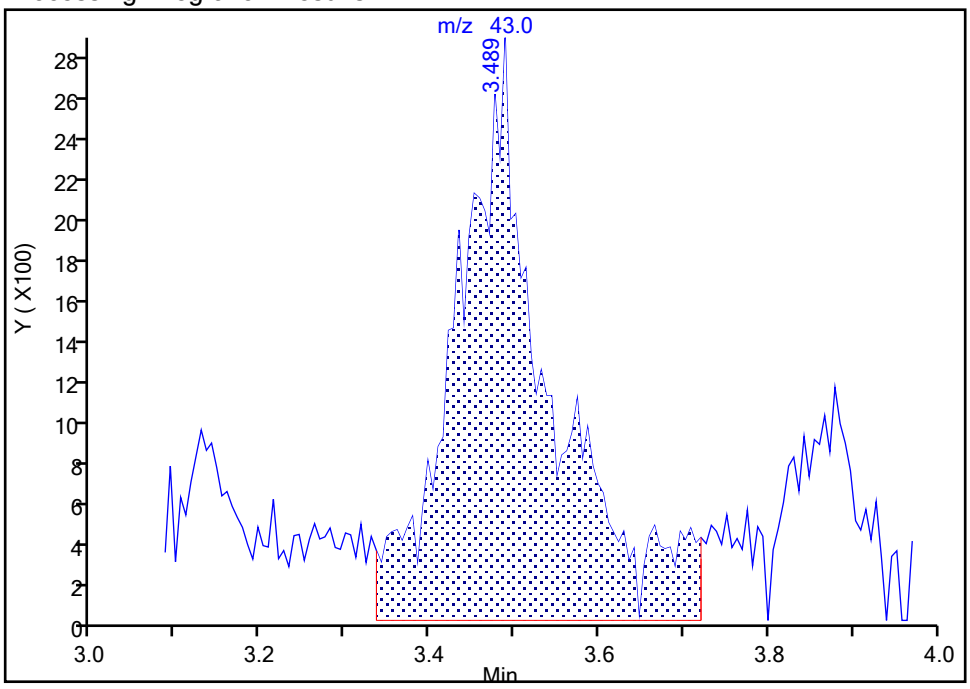
Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X12.D
Injection Date: 16-Aug-2022 17:26:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

20 Acetone, CAS: 67-64-1

Signal: 1

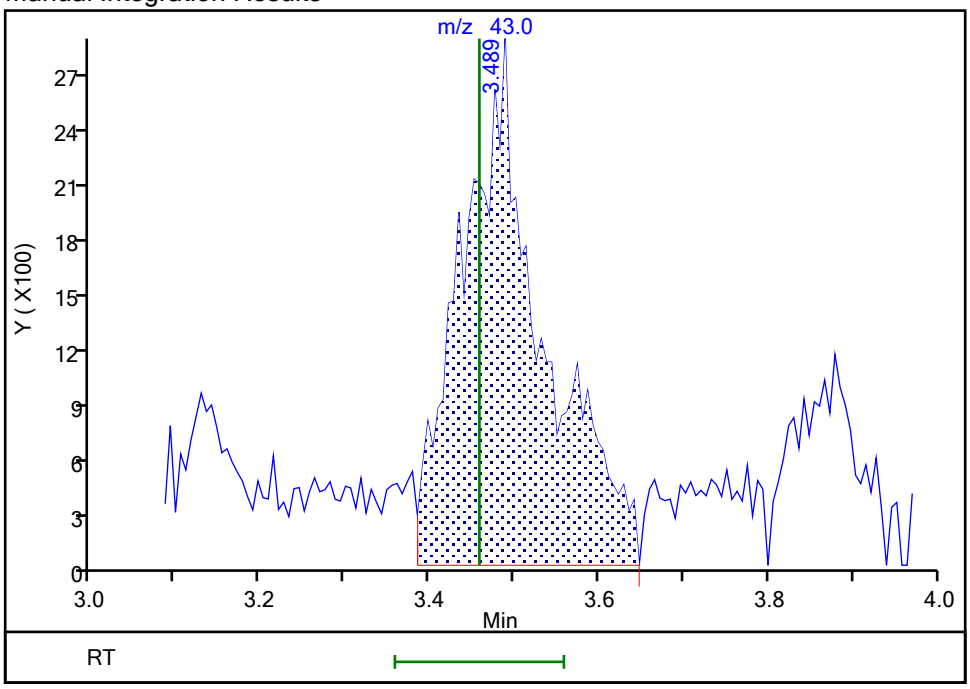
Processing Integration Results

RT: 3.49
Area: 21335
Amount: 3.130359
Amount Units: ug/l



Manual Integration Results

RT: 3.49
Area: 18527
Amount: 2.743915
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:31:46
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

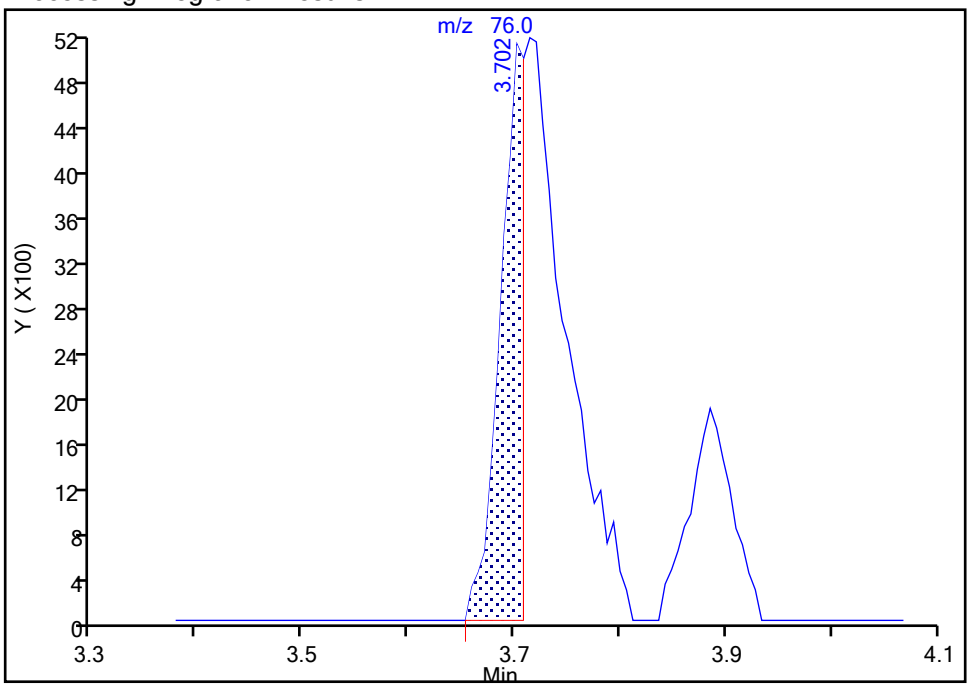
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X12.D				
Injection Date:	16-Aug-2022 17:26:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

23 Carbon disulfide, CAS: 75-15-0

Signal: 1

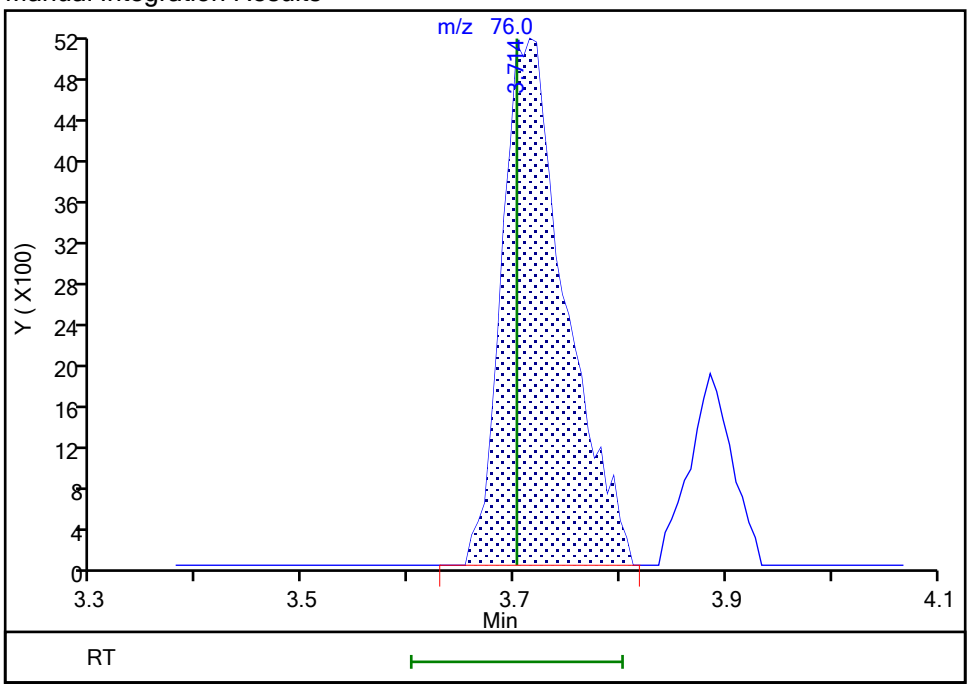
Processing Integration Results

RT: 3.70
Area: 8291
Amount: 0.190775
Amount Units: ug/l



Manual Integration Results

RT: 3.71
Area: 21688
Amount: 0.187211
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:31:55

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

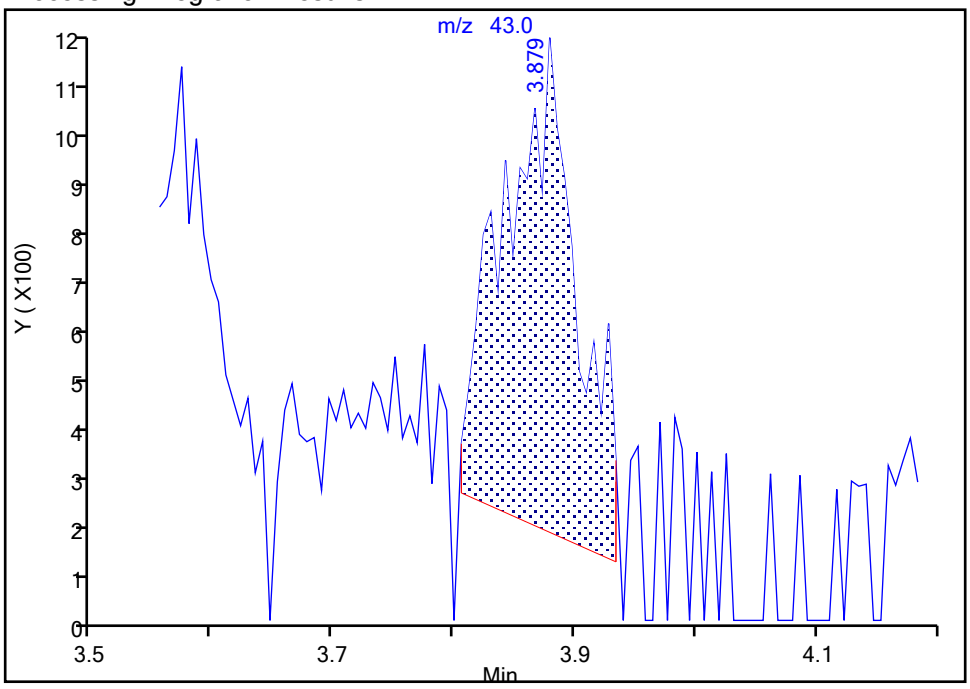
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X12.D				
Injection Date:	16-Aug-2022 17:26:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Methyl acetate, CAS: 79-20-9

Signal: 1

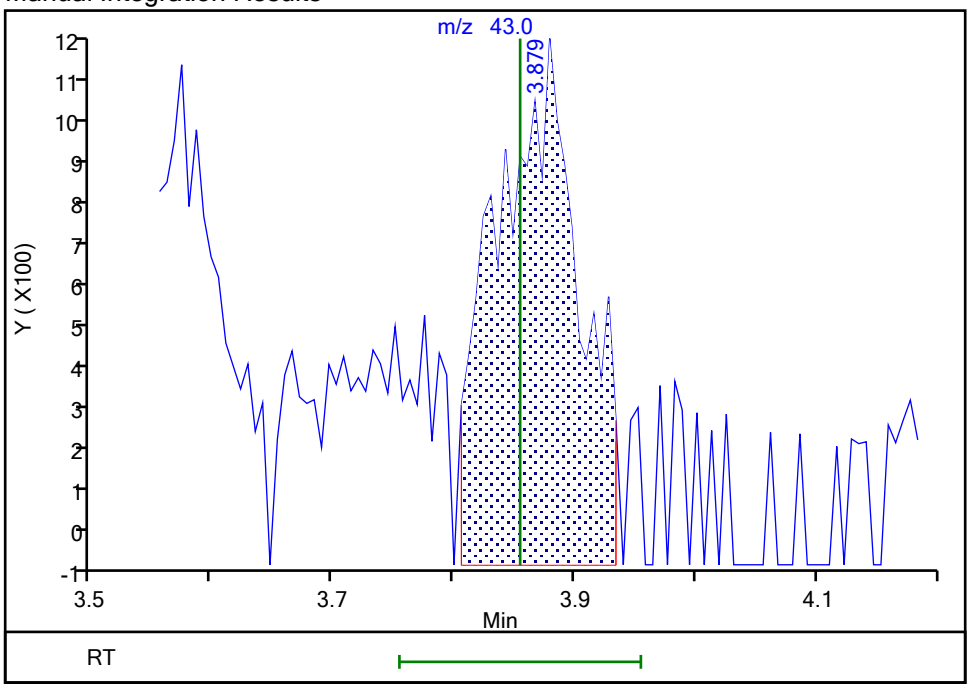
Processing Integration Results

RT: 3.88
Area: 4042
Amount: 0.202587
Amount Units: ug/l



Manual Integration Results

RT: 3.88
Area: 5494
Amount: 0.262389
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:32:06
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

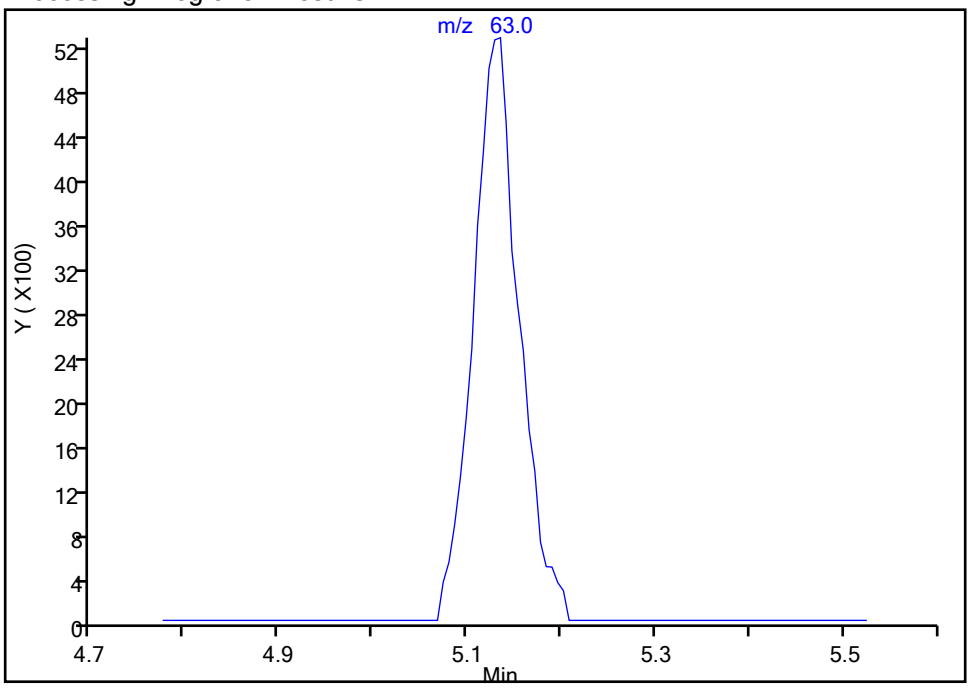
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X12.D				
Injection Date:	16-Aug-2022 17:26:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

37 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

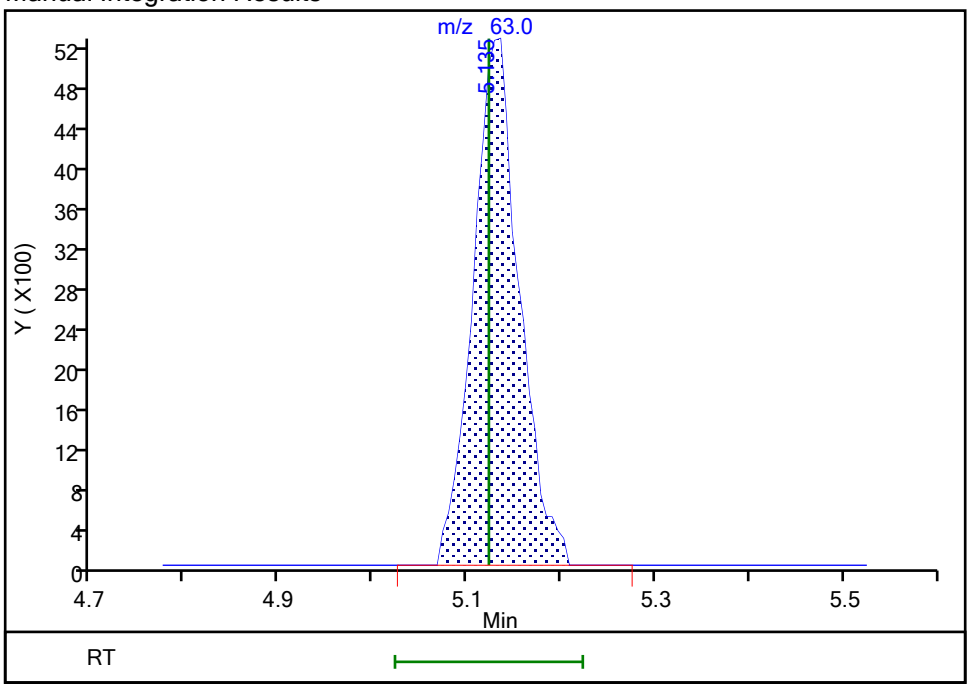
Not Detected
Expected RT: 5.12

Processing Integration Results



Manual Integration Results

RT: 5.13
Area: 17921
Amount: 0.198875
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:32:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

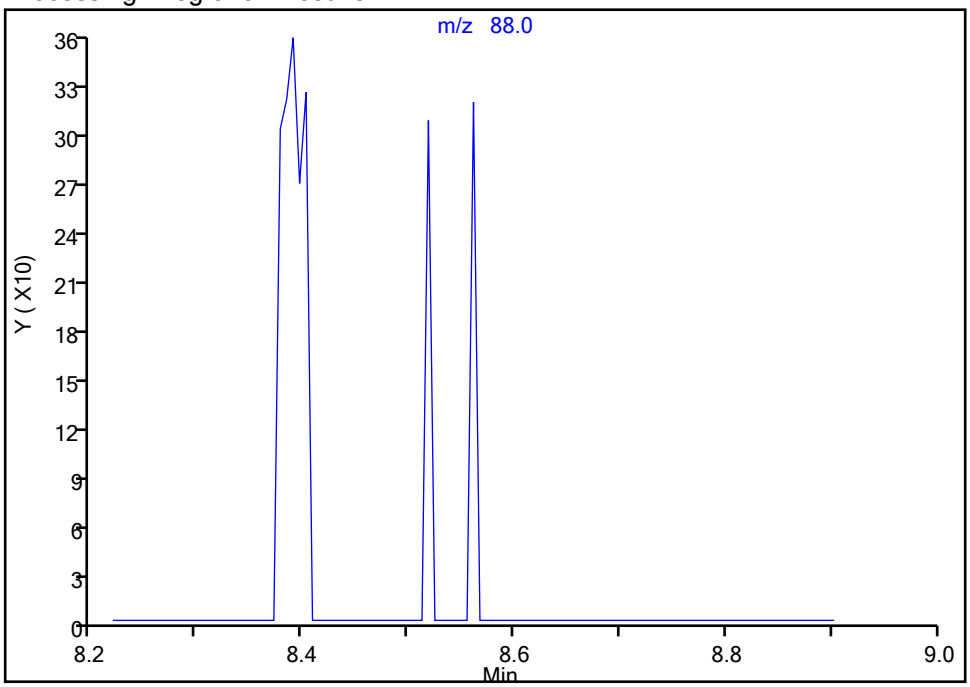
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X12.D				
Injection Date:	16-Aug-2022 17:26:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

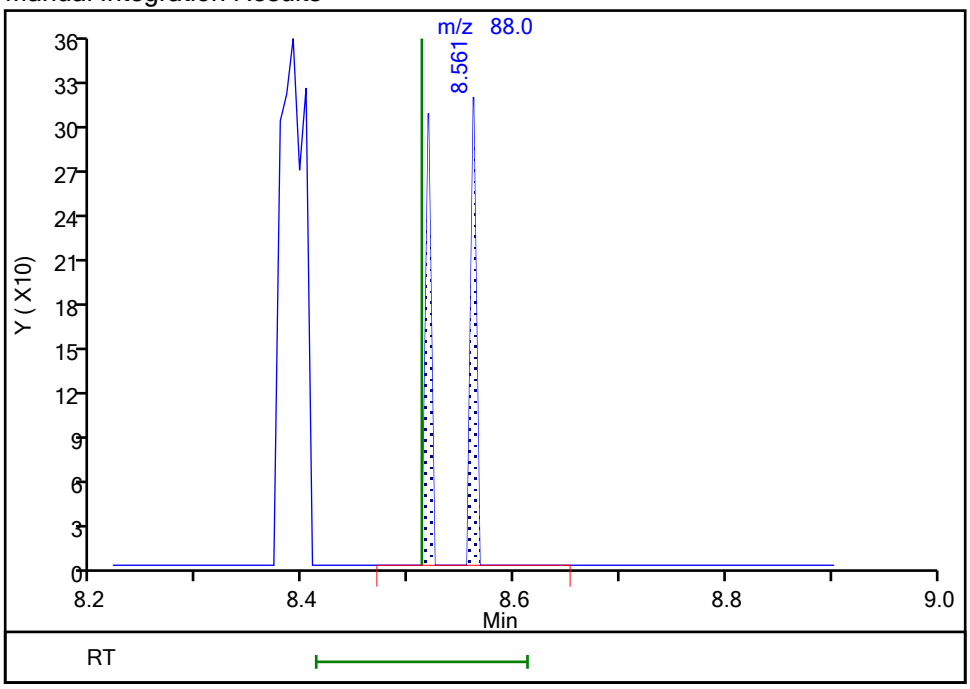
Not Detected
Expected RT: 8.51

Processing Integration Results



Manual Integration Results

RT: 8.56
Area: 225
Amount: 9.888496
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:32:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

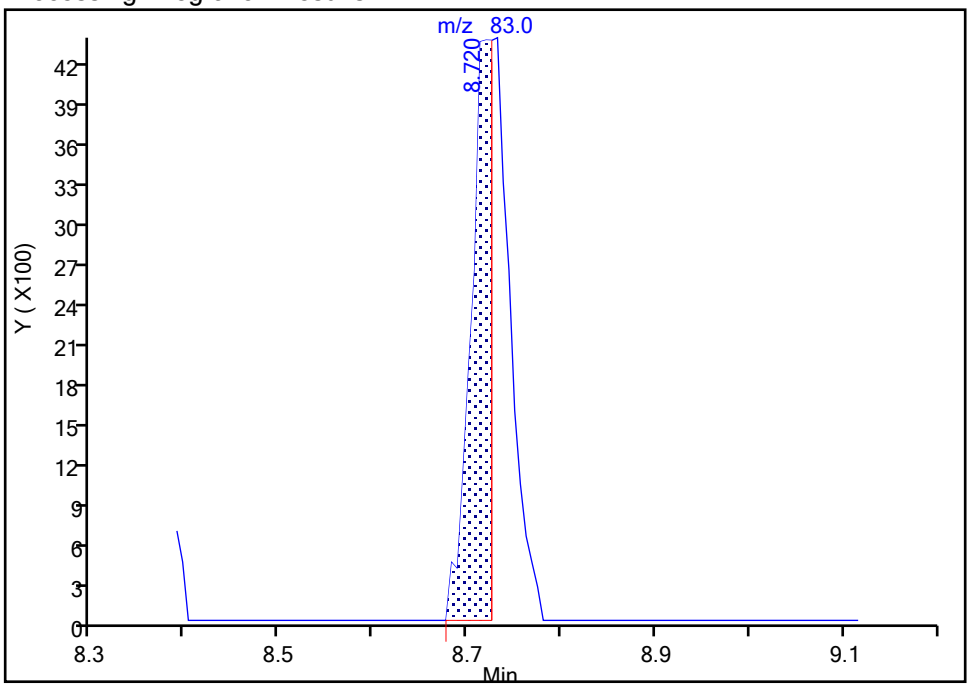
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X12.D				
Injection Date:	16-Aug-2022 17:26:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

76 Dichlorobromomethane, CAS: 75-27-4

Signal: 1

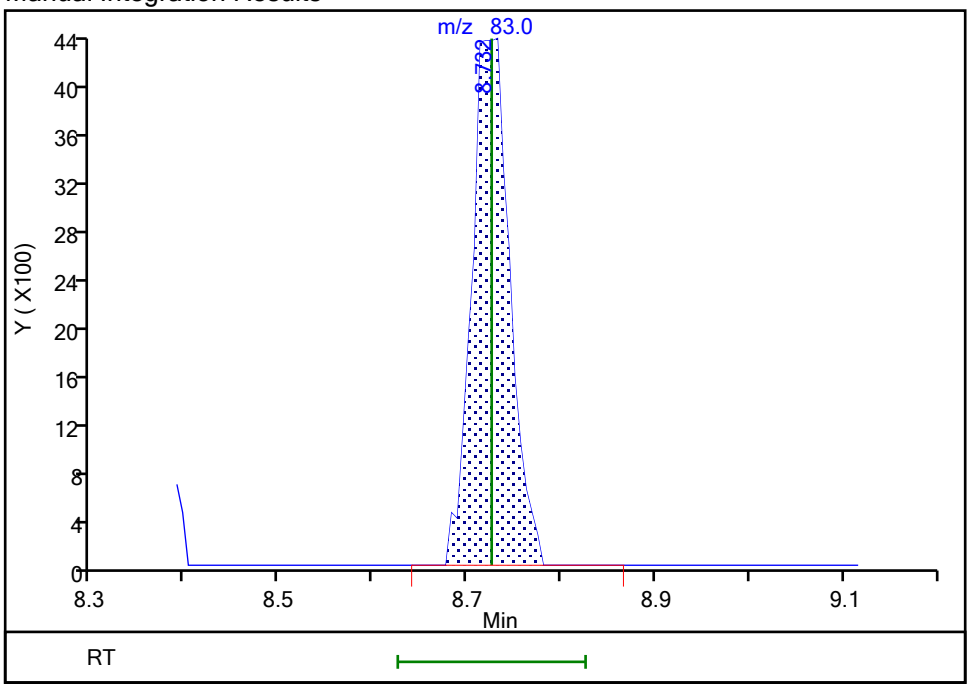
Processing Integration Results

RT: 8.72
Area: 7087
Amount: 0.115806
Amount Units: ug/l



Manual Integration Results

RT: 8.73
Area: 12244
Amount: 0.188715
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:32:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

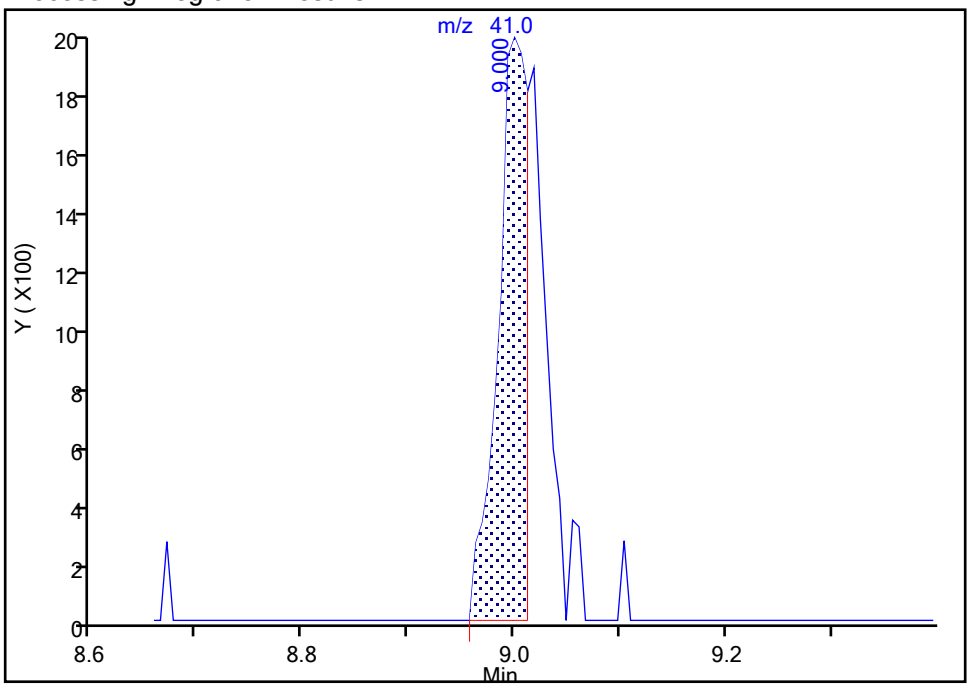
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X12.D				
Injection Date:	16-Aug-2022 17:26:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

77 2-Nitropropane, CAS: 79-46-9

Signal: 1

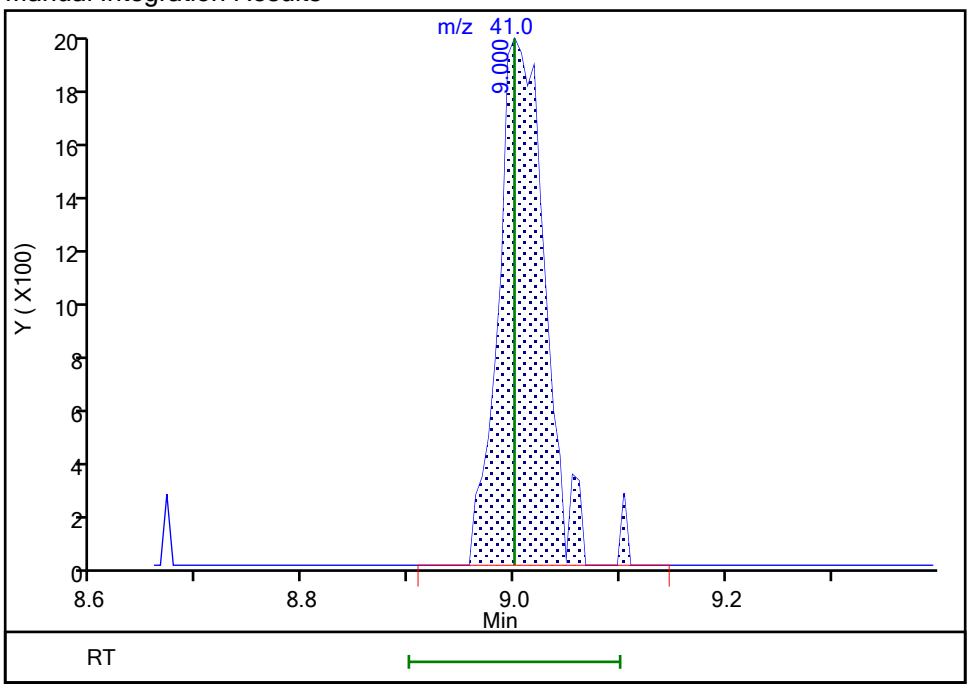
Processing Integration Results

RT: 9.00
Area: 3764
Amount: 1.019331
Amount Units: ug/l



Manual Integration Results

RT: 9.00
Area: 5944
Amount: 0.953626
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:32:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X13.D
Lims ID: IC std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 16-Aug-2022 17:48:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-014
Misc. Info.: IC STD2
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:48:30 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 17-Aug-2022 11:35:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.910	1.892	0.018	97	29864	0.5000	0.5161	
5 Chloromethane	50	2.093	2.087	0.006	99	35763	0.5000	0.5479	
6 Vinyl chloride	62	2.209	2.202	0.007	97	34951	0.5000	0.5239	
7 Butadiene	39	2.221	2.215	0.006	91	33291	0.5000	0.5249	M
9 Bromomethane	94	2.538	2.526	0.012	91	27671	0.5000	0.5257	
10 Chloroethane	64	2.611	2.599	0.012	98	20330	0.5000	0.5111	
11 Dichlorofluoromethane	67	2.843	2.836	0.007	95	50922	0.5000	0.5236	
12 Trichlorofluoromethane	101	2.916	2.904	0.012	71	48579	0.5000	0.5297	
13 Ethyl ether	59	3.135	3.123	0.012	88	22237	0.5001	0.5225	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.227	3.221	0.006	89	34418	0.5000	0.5313	
17 Acrolein	56	3.306	3.288	0.018	99	151628	25.0	25.5	
18 1,1-Dichloroethene	96	3.428	3.416	0.012	97	23932	0.5000	0.4984	
20 Acetone	43	3.477	3.458	0.019	89	33136	5.00	5.08	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.477	3.464	0.013	91	23226	0.5000	0.4962	
21 Iodomethane	142	3.611	3.605	0.006	99	46041	0.5000	0.5064	
22 Ethyl bromide	108	3.635	3.629	0.006	98	23129	0.4999	0.5246	
24 Isopropyl alcohol	45	3.714	3.690	0.024	27	12266	10.0	9.96	
23 Carbon disulfide	76	3.714	3.702	0.012	99	54155	0.5000	0.4623	
25 Methyl acetate	43	3.873	3.855	0.018	24	12070	0.5000	0.5968	M
27 3-Chloro-1-propene	41	3.885	3.873	0.012	88	32910	0.5000	0.5079	
29 Methylene Chloride	84	4.062	4.056	0.006	94	26736	0.5000	0.5025	
* 30 t-Butyl alcohol-d10 (IS)	65	4.141	4.141	0.000	63	128635	50.0	50.0	
31 2-Methyl-2-propanol	59	4.257	4.245	0.012	95	26043	10.0	11.4	M
32 Acrylonitrile	53	4.428	4.391	0.037	98	10330	1.25	1.19	
33 Methyl tert-butyl ether	73	4.458	4.446	0.012	94	68201	0.5000	0.4977	
34 trans-1,2-Dichloroethene	96	4.464	4.458	0.006	96	28136	0.5000	0.5017	
35 Hexane	57	4.897	4.885	0.012	91	30635	0.5000	0.5005	
37 1,1-Dichloroethane	63	5.135	5.123	0.012	95	45372	0.5000	0.4980	
38 Isopropyl ether	45	5.190	5.184	0.006	93	75661	0.5000	0.5020	
39 2-Chloro-1,3-butadiene	53	5.245	5.232	0.013	91	35647	0.5000	0.4916	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.726	5.720	0.006	96	78529	0.5000	0.5064	
41 2-Butanone (MEK)	43	5.952	5.933	0.019	99	66177	5.00	5.14	
42 cis-1,2-Dichloroethene	96	5.976	5.964	0.012	80	30021	0.5000	0.4898	
43 2,2-Dichloropropane	77	5.988	5.976	0.012	74	35373	0.5000	0.4800	
45 Propionitrile	54	6.037	6.025	0.012	98	31618	10.0	10.4	M
S 47 1,2-Dichloroethene, Total	100				0			0.99	
48 Methacrylonitrile	67	6.244	6.238	0.006	90	68072	5.00	4.95	
49 Chlorobromomethane	128	6.299	6.293	0.006	89	14558	0.5000	0.4958	
50 Tetrahydrofuran	71	6.311	6.299	0.012	67	9877	2.50	2.58	
51 Chloroform	83	6.452	6.452	0.000	93	49500	0.5000	0.5070	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.665	0.006	94	553438	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.683	6.671	0.012	40	41961	0.5000	0.4926	
54 Cyclohexane	56	6.775	6.769	0.006	88	38165	0.5000	0.4927	
56 Carbon tetrachloride	117	6.885	6.884	0.001	82	34892	0.5000	0.4759	
57 1,1-Dichloropropene	75	6.897	6.891	0.006	96	37795	0.5000	0.4993	
58 Isobutyl alcohol	41	7.092	7.073	0.019	96	19769	25.0	24.7	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.122	7.116	0.006	79	118255	10.0	10.1	
60 Benzene	78	7.153	7.153	0.000	92	111956	0.5000	0.5015	
61 1,2-Dichloroethane	62	7.226	7.220	0.006	97	33333	0.5000	0.5237	
63 Tert-amyl methyl ether	73	7.348	7.348	0.000	98	73806	0.5000	0.5021	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2229222	10.0	10.0	
65 n-Heptane	43	7.580	7.573	0.007	37	32359	0.5000	0.5055	
67 n-Butanol	56	7.988	7.970	0.018	88	28924	43.8	43.5	
68 Trichloroethene	95	8.043	8.043	0.000	97	30922	0.5000	0.4962	
69 Methylcyclohexane	83	8.354	8.341	0.013	89	44548	0.5000	0.4802	
70 1,2-Dichloropropane	63	8.384	8.372	0.012	76	27694	0.5000	0.5073	
71 2-ethoxy-2-methyl butane	87	8.390	8.390	0.000	94	43310	0.5000	0.4956	
72 Methyl methacrylate	69	8.470	8.463	0.007	82	13080	0.5000	0.4885	
73 Dibromomethane	93	8.488	8.482	0.006	91	14481	0.5000	0.4833	
74 1,4-Dioxane	88	8.518	8.512	0.006	1	2333	25.0	23.7	M
76 Dichlorobromomethane	83	8.726	8.726	0.000	99	31086	0.5000	0.4738	
77 2-Nitropropane	41	9.000	9.000	0.000	96	13724	2.50	2.28	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	98	29690	0.5000	0.5021	
81 cis-1,3-Dichloropropene	75	9.286	9.280	0.006	96	38315	0.5000	0.4682	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	96	168921	5.00	4.98	
$ 83 Toluene-d8 (Surr)	98	9.597	9.591	0.006	93	2250850	10.0	10.0	
84 Toluene	92	9.677	9.671	0.007	98	75624	0.5000	0.4967	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	92	30039	0.5000	0.4429	
104 Ethyl methacrylate	69	10.006	10.006	0.000	87	26673	0.5000	0.4566	
S 105 1,3-Dichloropropene, Total	100				0			0.9111	
106 1,1,2-Trichloroethane	97	10.146	10.146	0.000	89	22386	0.5000	0.4999	
107 Tetrachloroethene	166	10.231	10.231	0.000	98	37991	0.5000	0.4954	
108 1,3-Dichloropropane	76	10.311	10.311	0.000	90	36673	0.5000	0.4992	
109 2-Hexanone	43	10.372	10.365	0.007	96	122181	5.00	4.94	
111 Chlorodibromomethane	129	10.524	10.524	0.000	88	21881	0.5000	0.4468	
112 Ethylene Dibromide	107	10.634	10.634	0.000	100	21212	0.5000	0.4812	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1755239	10.0	10.0	
114 1-Chlorohexane	91	11.085	11.085	0.000	92	42721	0.5000	0.5006	
115 Chlorobenzene	112	11.097	11.097	0.000	96	93034	0.5000	0.5048	
117 1,1,1,2-Tetrachloroethane	131	11.182	11.182	0.000	92	28190	0.5000	0.4765	
116 Ethylbenzene	91	11.189	11.189	0.001	98	146301	0.5000	0.4957	
S 118 Xylenes, Total	106				0			1.47	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 m-Xylene & p-Xylene	106	11.304	11.304	0.000	100	115958	1.00	0.9775	
120 o-Xylene	106	11.634	11.634	0.000	95	57392	0.5000	0.4883	
121 Styrene	104	11.652	11.652	0.000	95	94941	0.5000	0.4769	
122 Bromoform	173	11.810	11.804	0.006	97	10522	0.5000	0.3817	
123 Isopropylbenzene	105	11.938	11.938	0.000	95	148324	0.5000	0.4937	
$ 126 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	94	835927	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.182	12.188	-0.006	95	26537	0.5000	0.4744	
128 Bromobenzene	156	12.194	12.194	0.000	91	39314	0.5000	0.4877	
129 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	88	56733	5.00	4.55	
130 1,2,3-Trichloropropane	110	12.231	12.231	0.000	81	7781	0.5000	0.4843	
131 N-Propylbenzene	91	12.268	12.268	0.000	98	173695	0.5000	0.4932	
132 2-Chlorotoluene	126	12.341	12.341	0.000	98	38278	0.5000	0.4942	
133 1,3,5-Trimethylbenzene	105	12.402	12.402	0.000	94	130441	0.5000	0.4944	
134 4-Chlorotoluene	126	12.438	12.438	0.000	97	39001	0.5000	0.4818	
135 tert-Butylbenzene	134	12.646	12.646	0.000	91	29851	0.5000	0.4910	
136 Pentachloroethane	167	12.676	12.676	0.000	78	19435	0.5000	0.4467	
137 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	96	132706	0.5000	0.4883	
138 sec-Butylbenzene	105	12.810	12.810	0.000	94	161376	0.5000	0.4877	
139 1,3-Dichlorobenzene	146	12.908	12.908	0.000	98	80921	0.5000	0.4861	
140 4-Isopropyltoluene	119	12.920	12.920	0.000	97	144968	0.5000	0.4805	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	93	1047319	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.981	12.981	0.000	96	83845	0.5000	0.4810	
143 1,2,3-Trimethylbenzene	120	12.993	12.993	0.000	97	63120	0.5000	0.5058	
144 Benzyl chloride	126	13.060	13.060	0.000	98	6688	0.5000	0.4679	
145 p-Diethylbenzene	119	13.115	13.121	-0.006	91	86878	0.5000	0.4838	
146 n-Butylbenzene	92	13.206	13.206	0.000	97	70421	0.5000	0.4778	
147 1,2-Dichlorobenzene	146	13.243	13.243	0.000	98	75705	0.5000	0.4846	
149 1,2-Dibromo-3-Chloropropane	155	13.786	13.786	0.000	86	3270	0.5000	0.3969	
150 1,3,5-Trichlorobenzene	180	13.908	13.907	0.001	98	65196	0.5000	0.4858	
151 1,2,4-Trichlorobenzene	180	14.334	14.328	0.006	94	57005	0.5000	0.4529	
152 Hexachlorobutadiene	225	14.414	14.413	0.001	95	29376	0.5000	0.4925	
153 Naphthalene	128	14.511	14.511	0.000	97	97004	0.5000	0.4554	
154 1,2,3-Trichlorobenzene	180	14.651	14.651	0.000	97	51896	0.5000	0.4666	
155 2-Methylnaphthalene	142	15.267	15.261	0.006	92	56001	0.5000	0.4334	
166 Pentane	43	2.928	2.916	0.012	95	34005	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00052	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00108	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00056	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00037	Amount Added:	1.00	Units: uL	Run Reagent

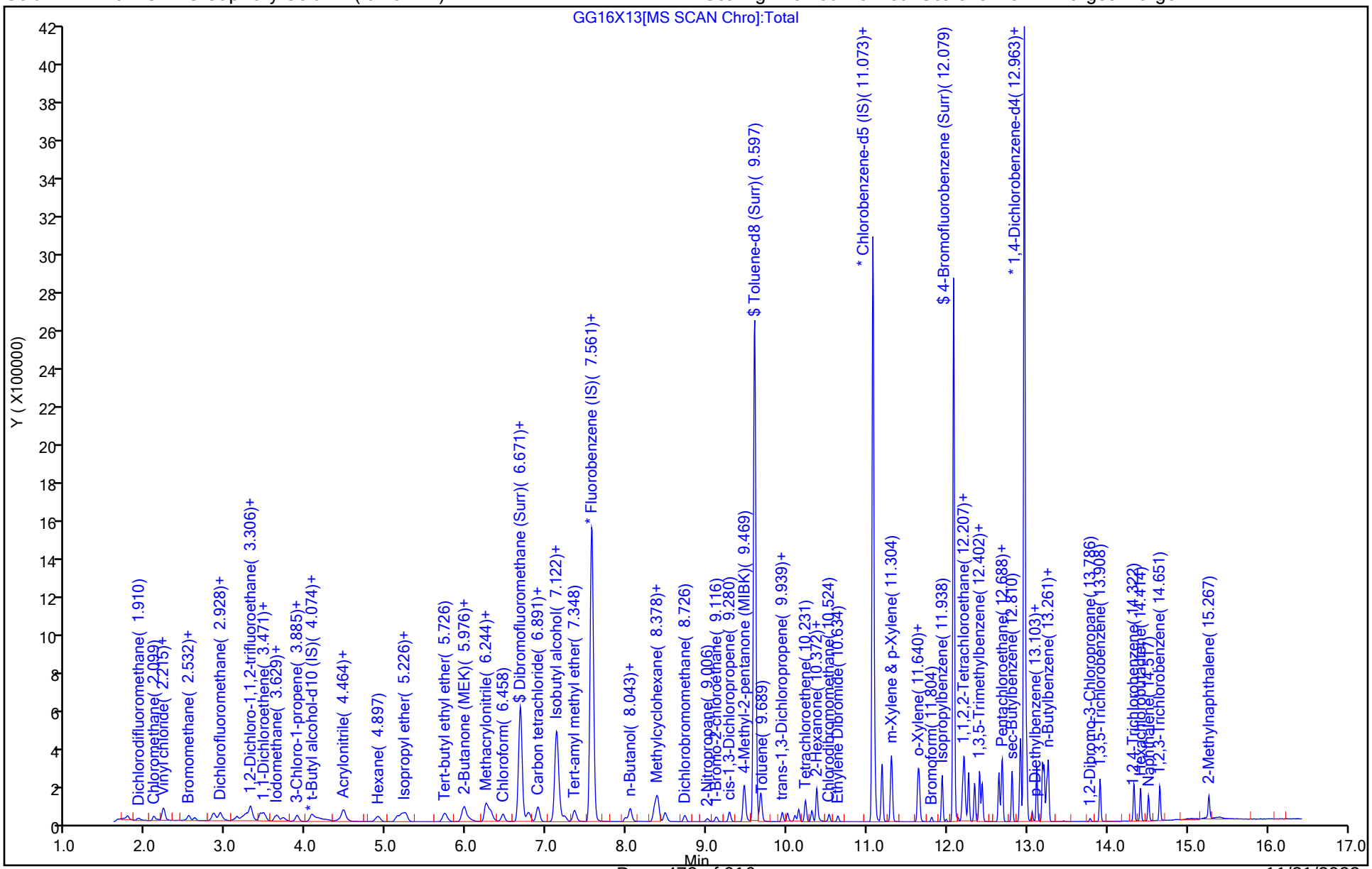
Report Date: 30-Aug-2022 10:48:31 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X13.D

Injection Date:	16-Aug-2022 17:48:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std2			Worklist Smp#:	14
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



11/21/2022
12:36 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

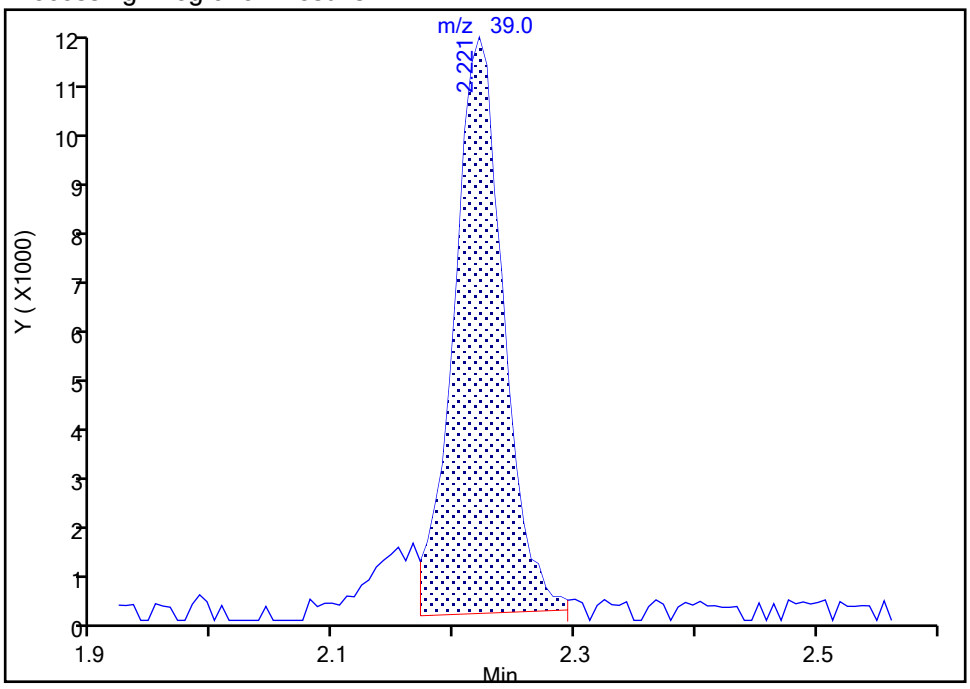
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X13.D				
Injection Date:	16-Aug-2022 17:48:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

7 Butadiene, CAS: 106-99-0

Signal: 1

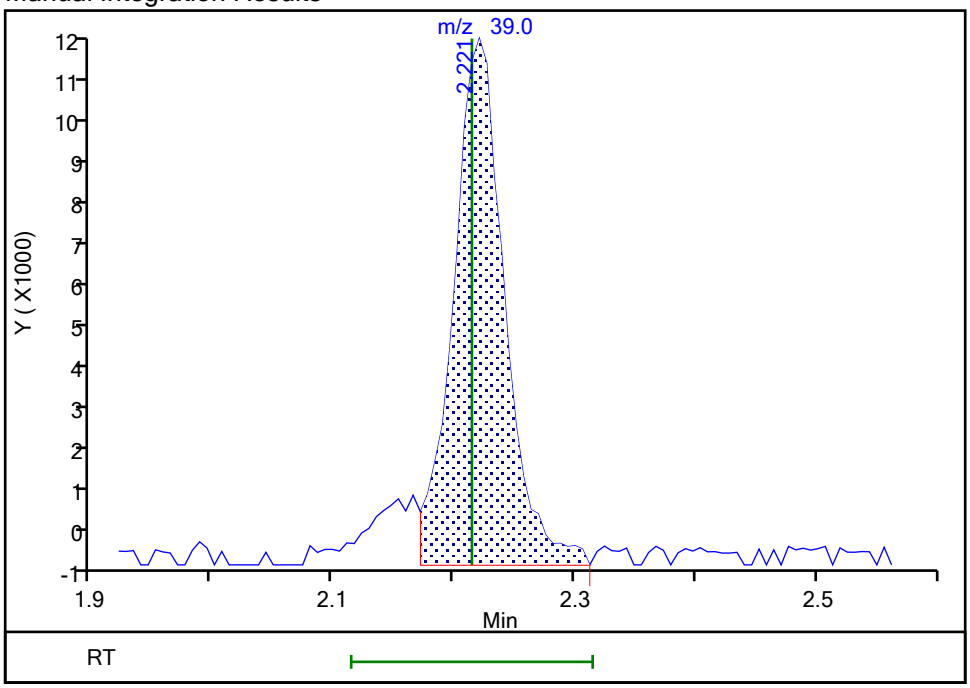
Processing Integration Results

RT: 2.22
Area: 31835
Amount: 0.509037
Amount Units: ug/l



Manual Integration Results

RT: 2.22
Area: 33291
Amount: 0.524877
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:33:43
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

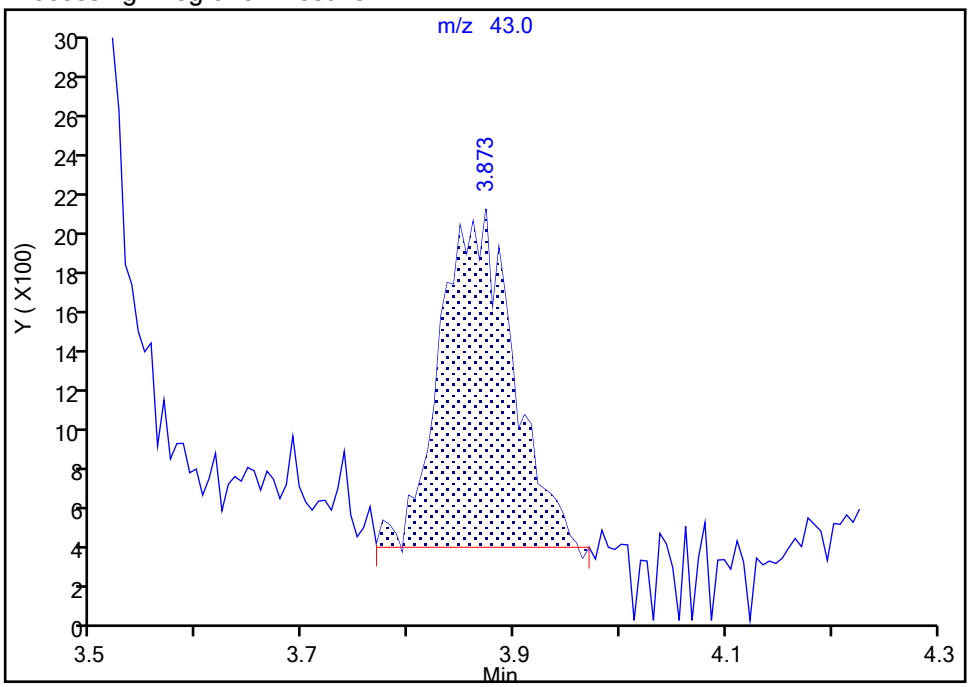
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X13.D				
Injection Date:	16-Aug-2022 17:48:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Methyl acetate, CAS: 79-20-9

Signal: 1

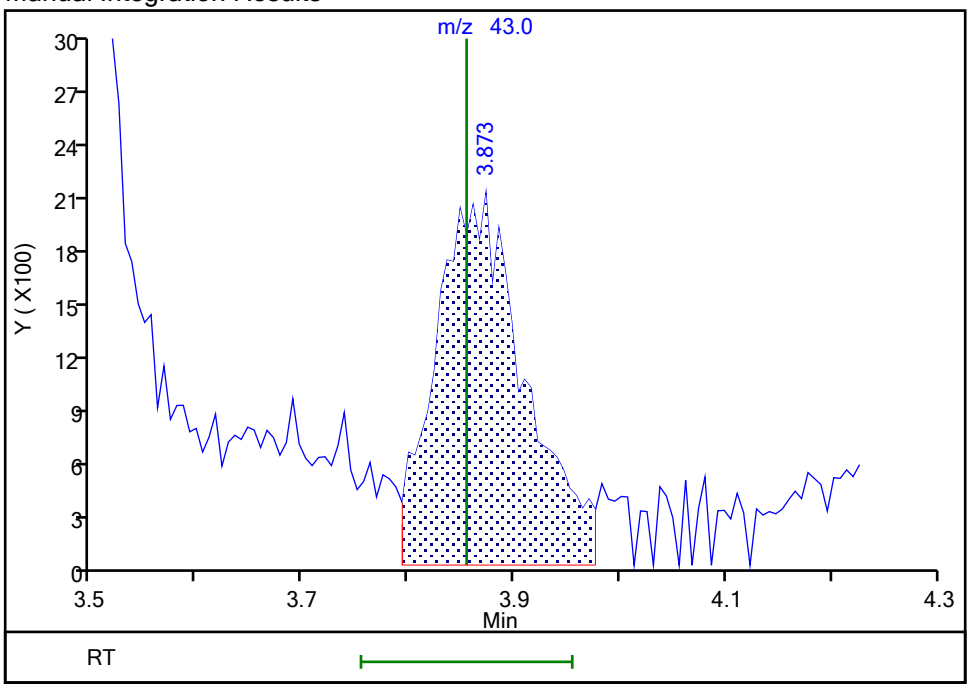
Processing Integration Results

RT: 3.87
Area: 8074
Amount: 0.398268
Amount Units: ug/l



Manual Integration Results

RT: 3.87
Area: 12070
Amount: 0.596822
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:34:36
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

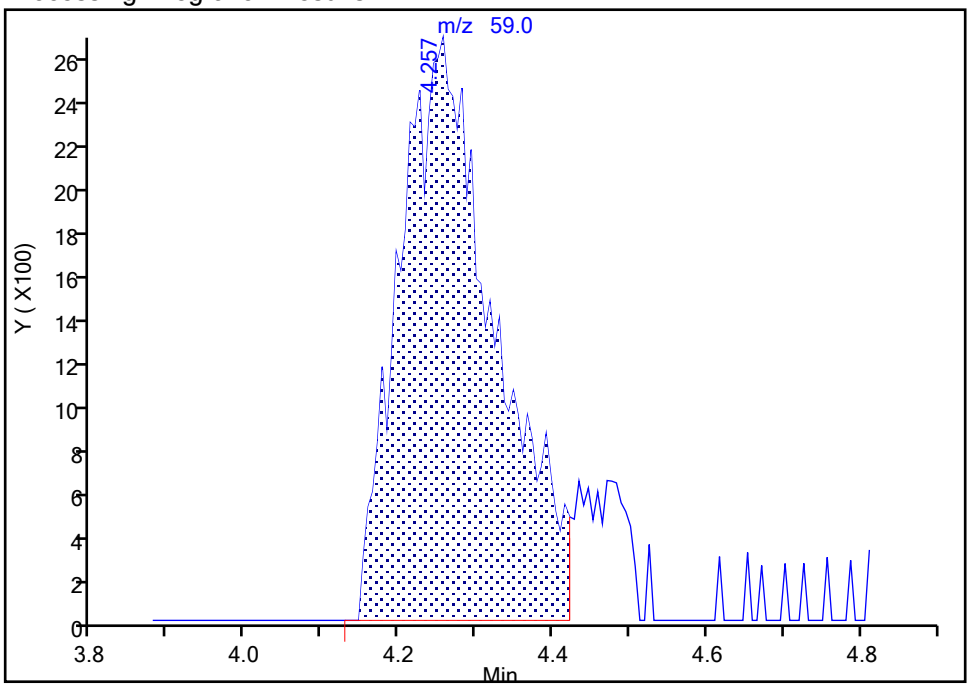
Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X13.D
Injection Date: 16-Aug-2022 17:48:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

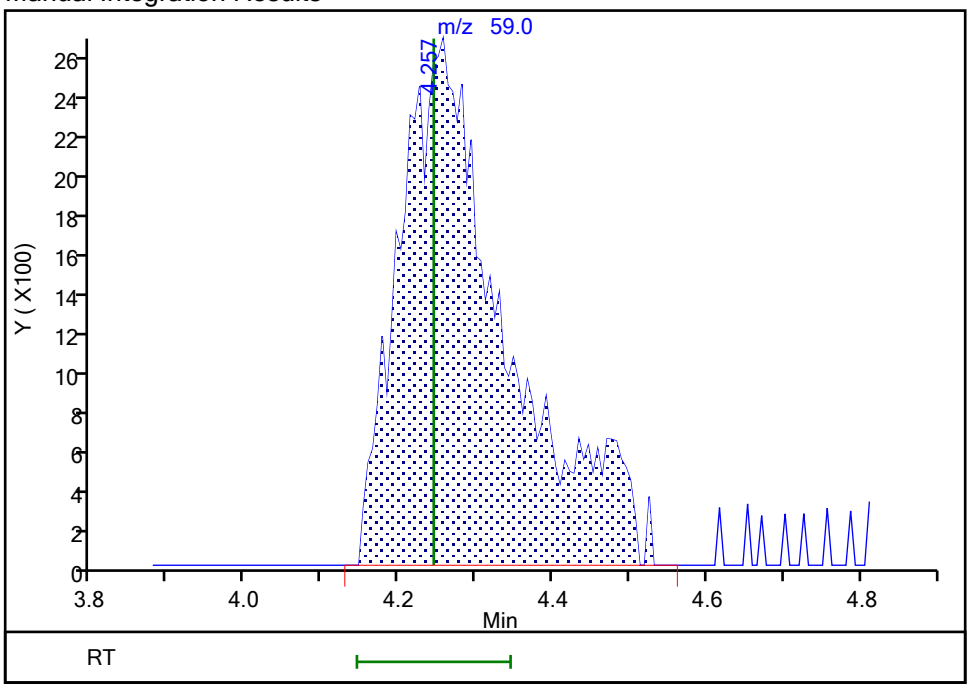
Processing Integration Results

RT: 4.26
Area: 23199
Amount: 10.086383
Amount Units: ug/l



Manual Integration Results

RT: 4.26
Area: 26043
Amount: 11.421802
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:34:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

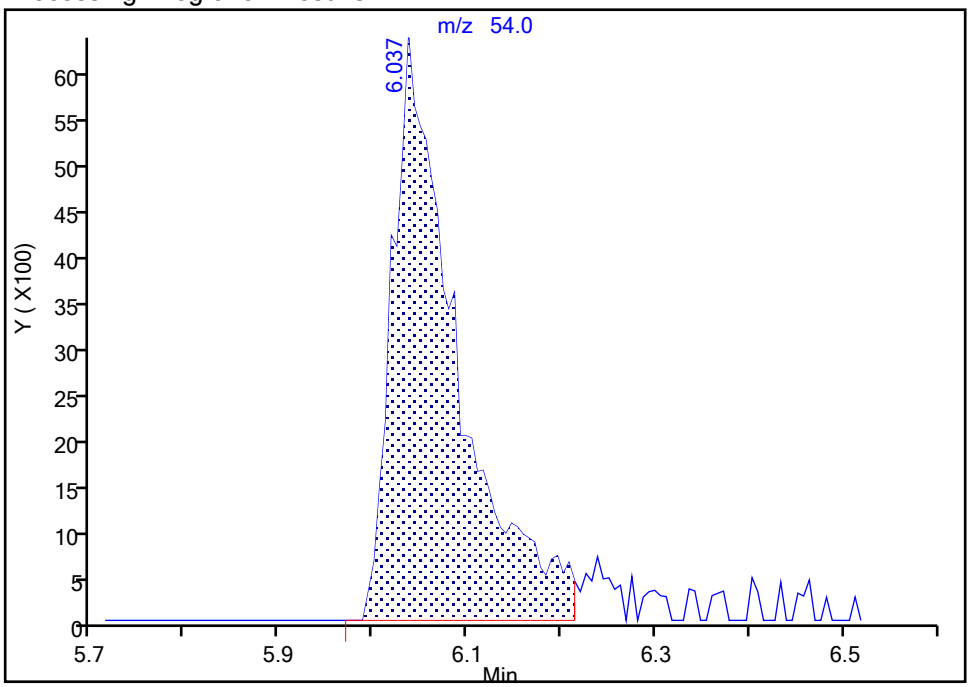
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X13.D				
Injection Date:	16-Aug-2022 17:48:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

45 Propionitrile, CAS: 107-12-0

Signal: 1

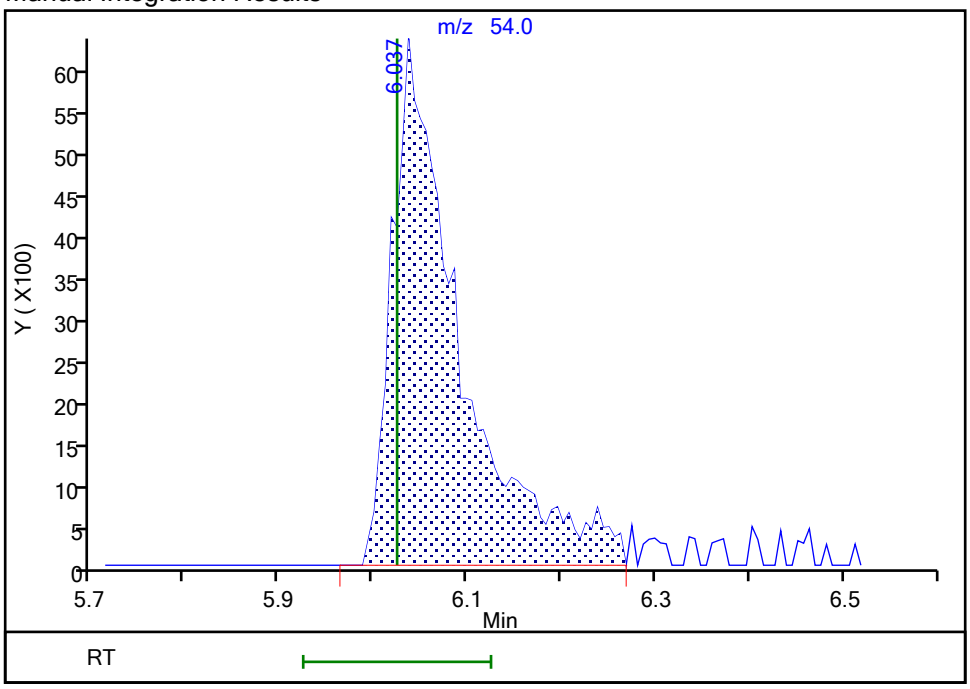
Processing Integration Results

RT: 6.04
Area: 30308
Amount: 9.713761
Amount Units: ug/l



Manual Integration Results

RT: 6.04
Area: 31618
Amount: 10.357229
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:34:57

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

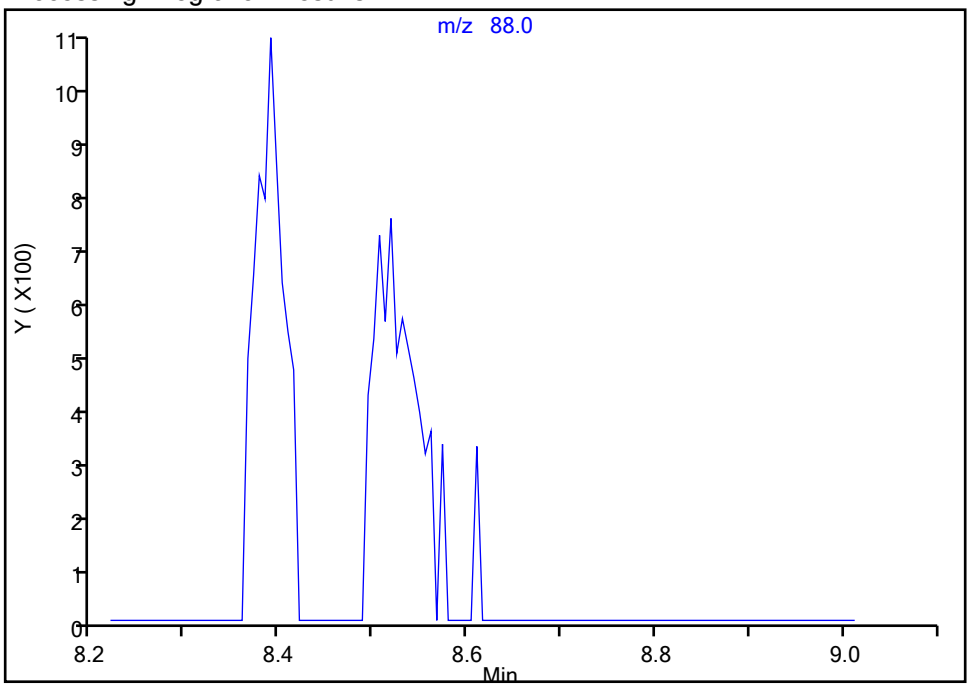
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X13.D				
Injection Date:	16-Aug-2022 17:48:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

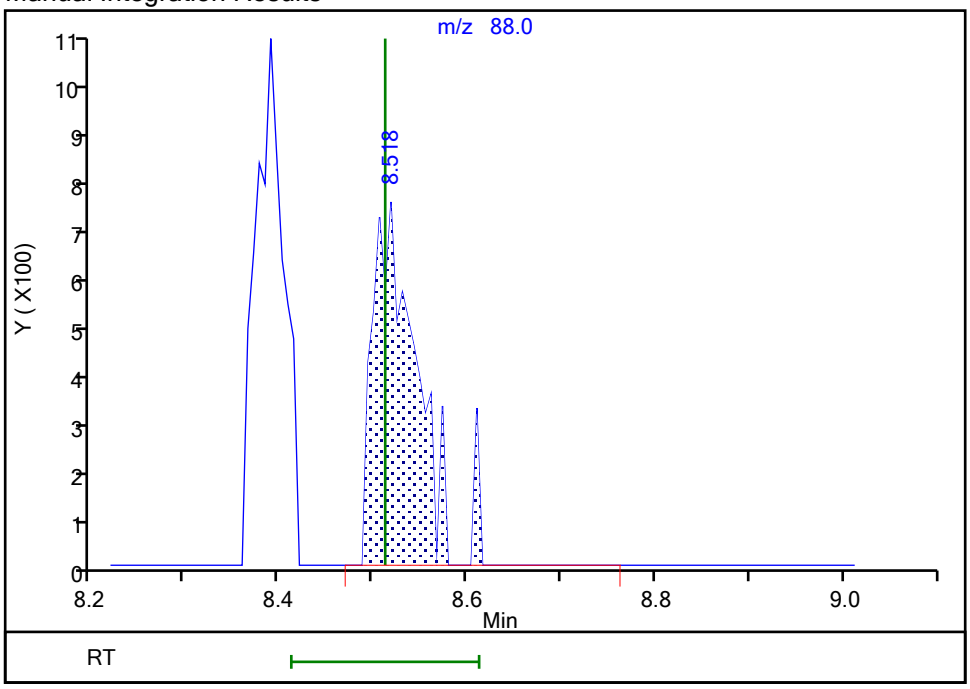
Not Detected
Expected RT: 8.51

Processing Integration Results



Manual Integration Results

RT: 8.52
Area: 2333
Amount: 23.738210
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:35:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X14.D
Lims ID: IC std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 16-Aug-2022 18:10:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-015
Misc. Info.: IC STD3
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:48:35 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 17-Aug-2022 11:38:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.898	1.892	0.006	98	64970	1.00	1.12	
5 Chloromethane	50	2.099	2.087	0.012	99	71408	1.00	1.09	
6 Vinyl chloride	62	2.209	2.202	0.007	97	75827	1.00	1.14	
7 Butadiene	39	2.221	2.215	0.006	90	66066	1.00	1.04	M
9 Bromomethane	94	2.538	2.526	0.012	91	56777	1.00	1.08	
10 Chloroethane	64	2.611	2.599	0.012	99	43829	1.00	1.10	
11 Dichlorofluoromethane	67	2.843	2.836	0.007	97	107037	1.00	1.10	
12 Trichlorofluoromethane	101	2.916	2.904	0.012	95	99801	1.00	1.09	
13 Ethyl ether	59	3.135	3.123	0.012	90	44254	1.00	1.04	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.233	3.221	0.012	88	71956	1.00	1.11	
17 Acrolein	56	3.300	3.288	0.012	98	296541	50.0	46.9	
18 1,1-Dichloroethene	96	3.428	3.416	0.012	96	52396	1.00	1.09	
20 Acetone	43	3.471	3.458	0.013	87	67653	10.0	9.74	M
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.465	3.464	0.001	90	51784	1.00	1.11	
21 Iodomethane	142	3.617	3.605	0.012	98	95536	1.00	1.05	
22 Ethyl bromide	108	3.641	3.629	0.012	97	45609	1.00	1.03	
24 Isopropyl alcohol	45	3.678	3.690	-0.012	26	25166	20.0	20.4	M
23 Carbon disulfide	76	3.709	3.702	0.006	99	120809	1.00	1.03	
25 Methyl acetate	43	3.861	3.855	0.006	57	18773	1.00	0.8719	
27 3-Chloro-1-propene	41	3.891	3.873	0.018	89	68077	1.00	1.05	
29 Methylene Chloride	84	4.062	4.056	0.006	87	54805	1.00	1.03	
* 30 t-Butyl alcohol-d10 (IS)	65	4.123	4.141	-0.018	59	136943	50.0	50.0	
31 2-Methyl-2-propanol	59	4.251	4.245	0.006	99	47324	20.0	19.5	
32 Acrylonitrile	53	4.416	4.391	0.025	92	22478	2.50	2.44	
33 Methyl tert-butyl ether	73	4.458	4.446	0.012	93	140874	1.00	1.03	
34 trans-1,2-Dichloroethene	96	4.464	4.458	0.006	96	60166	1.00	1.07	
35 Hexane	57	4.891	4.885	0.006	91	67189	1.00	1.10	
37 1,1-Dichloroethane	63	5.135	5.123	0.012	96	96997	1.00	1.06	
38 Isopropyl ether	45	5.190	5.184	0.006	93	156342	1.00	1.04	
39 2-Chloro-1,3-butadiene	53	5.245	5.232	0.013	91	78331	1.00	1.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.726	5.720	0.006	97	158948	1.00	1.02	
41 2-Butanone (MEK)	43	5.946	5.933	0.013	99	137933	10.0	10.1	
42 cis-1,2-Dichloroethene	96	5.970	5.964	0.006	80	65758	1.00	1.07	
43 2,2-Dichloropropane	77	5.989	5.976	0.013	87	81208	1.00	1.10	
45 Propionitrile	54	6.037	6.025	0.012	98	64922	20.0	20.0	
S 47 1,2-Dichloroethene, Total	100				0			2.14	
48 Methacrylonitrile	67	6.245	6.238	0.007	91	140534	10.0	9.60	
49 Chlorobromomethane	128	6.299	6.293	0.006	86	29925	1.00	1.02	
50 Tetrahydrofuran	71	6.312	6.299	0.013	66	19791	5.00	4.86	
51 Chloroform	83	6.452	6.452	0.000	93	103813	1.00	1.06	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.665	0.006	94	551657	10.0	9.96	
53 1,1,1-Trichloroethane	97	6.677	6.671	0.006	42	91058	1.00	1.07	
54 Cyclohexane	56	6.769	6.769	0.000	88	83885	1.00	1.08	
56 Carbon tetrachloride	117	6.885	6.884	0.001	81	78504	1.00	1.07	
57 1,1-Dichloropropene	75	6.897	6.891	0.006	96	84366	1.00	1.11	
58 Isobutyl alcohol	41	7.092	7.073	0.019	88	39678	50.0	49.6	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.129	7.116	0.013	81	117134	10.0	9.96	
60 Benzene	78	7.153	7.153	0.000	95	237804	1.00	1.06	
61 1,2-Dichloroethane	62	7.226	7.220	0.006	98	65349	1.00	1.03	
63 Tert-amyl methyl ether	73	7.348	7.348	0.000	99	150323	1.00	1.02	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2229967	10.0	10.0	
65 n-Heptane	43	7.580	7.573	0.007	92	70226	1.00	1.10	
67 n-Butanol	56	7.976	7.970	0.006	90	61810	87.5	87.3	
68 Trichloroethene	95	8.043	8.043	0.000	95	67641	1.00	1.09	
69 Methylcyclohexane	83	8.348	8.341	0.007	90	101289	1.00	1.09	
70 1,2-Dichloropropane	63	8.372	8.372	0.000	97	57142	1.00	1.05	
71 2-ethoxy-2-methyl butane	87	8.391	8.390	0.001	94	89269	1.00	1.02	
72 Methyl methacrylate	69	8.464	8.463	0.001	88	26397	1.00	0.9261	
73 Dibromomethane	93	8.488	8.482	0.006	92	31212	1.00	1.04	
74 1,4-Dioxane	88	8.519	8.512	0.007	74	8023	50.0	57.8	M
76 Dichlorobromomethane	83	8.726	8.726	0.000	98	66707	1.00	1.02	
77 2-Nitropropane	41	9.006	9.000	0.006	97	28229	5.00	4.40	
79 1-Bromo-2-chloroethane	63	9.122	9.116	0.006	98	60702	1.00	1.03	
81 cis-1,3-Dichloropropene	75	9.281	9.280	0.001	96	79430	1.00	0.9703	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	96	355253	10.0	9.84	
$ 83 Toluene-d8 (Surr)	98	9.598	9.591	0.007	93	2261224	10.0	10.0	
84 Toluene	92	9.671	9.671	0.001	99	166283	1.00	1.09	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	92	65556	1.00	0.9605	
104 Ethyl methacrylate	69	10.006	10.006	0.000	87	57347	1.00	0.9756	
S 105 1,3-Dichloropropene, Total	100				0			1.93	
106 1,1,2-Trichloroethane	97	10.146	10.146	0.000	90	47367	1.00	1.05	
107 Tetrachloroethene	166	10.232	10.231	0.001	97	85370	1.00	1.11	
108 1,3-Dichloropropane	76	10.311	10.311	0.000	89	77024	1.00	1.04	
109 2-Hexanone	43	10.372	10.365	0.007	96	259520	10.0	9.86	
111 Chlorodibromomethane	129	10.524	10.524	0.000	89	48615	1.00	0.9864	
112 Ethylene Dibromide	107	10.634	10.634	0.000	99	45733	1.00	1.03	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1766319	10.0	10.0	
114 1-Chlorohexane	91	11.085	11.085	0.000	94	92947	1.00	1.08	
115 Chlorobenzene	112	11.097	11.097	0.000	97	204292	1.00	1.10	
117 1,1,1,2-Tetrachloroethane	131	11.183	11.182	0.001	95	60398	1.00	1.01	
116 Ethylbenzene	91	11.189	11.189	0.001	98	319592	1.00	1.08	
S 118 Xylenes, Total	106				0			3.25	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 m-Xylene & p-Xylene	106	11.305	11.304	0.001	100	261822	2.00	2.19	
120 o-Xylene	106	11.634	11.634	0.000	95	125445	1.00	1.06	
121 Styrene	104	11.652	11.652	0.000	95	220754	1.00	1.10	
122 Bromoform	173	11.804	11.804	0.000	98	26899	1.00	0.9698	
123 Isopropylbenzene	105	11.939	11.938	0.001	95	326045	1.00	1.08	
$ 126 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	94	840581	10.0	9.98	
127 1,1,2,2-Tetrachloroethane	83	12.182	12.188	-0.006	95	58969	1.00	1.05	
128 Bromobenzene	156	12.195	12.194	0.001	91	92485	1.00	1.14	
129 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	93	126083	10.0	9.50	
130 1,2,3-Trichloropropane	110	12.231	12.231	0.000	81	17133	1.00	1.06	
131 N-Propylbenzene	91	12.268	12.268	0.000	99	394622	1.00	1.12	
132 2-Chlorotoluene	126	12.341	12.341	0.000	97	85619	1.00	1.10	
133 1,3,5-Trimethylbenzene	105	12.402	12.402	0.000	94	284846	1.00	1.08	
134 4-Chlorotoluene	126	12.439	12.438	0.000	97	97891	1.00	1.21	
135 tert-Butylbenzene	134	12.646	12.646	0.000	92	65628	1.00	1.08	
136 Pentachloroethane	167	12.676	12.676	0.000	89	42730	1.00	0.9789	
137 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	96	297385	1.00	1.09	
138 sec-Butylbenzene	105	12.810	12.810	0.000	94	369489	1.00	1.11	
139 1,3-Dichlorobenzene	146	12.908	12.908	0.000	99	199241	1.00	1.19	
140 4-Isopropyltoluene	119	12.920	12.920	0.000	97	333901	1.00	1.10	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	93	1050836	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.981	12.981	0.000	96	227035	1.00	1.30	
143 1,2,3-Trimethylbenzene	120	12.993	12.993	0.000	98	134921	1.00	1.08	
144 Benzyl chloride	126	13.060	13.060	0.000	98	16060	1.00	0.8851	
145 p-Diethylbenzene	119	13.115	13.121	-0.006	92	201053	1.00	1.12	
146 n-Butylbenzene	92	13.207	13.206	0.001	97	168500	1.00	1.14	
147 1,2-Dichlorobenzene	146	13.243	13.243	0.000	99	186141	1.00	1.19	
149 1,2-Dibromo-3-Chloropropane	155	13.786	13.786	0.000	88	8619	1.00	1.04	
150 1,3,5-Trichlorobenzene	180	13.908	13.907	0.001	98	163162	1.00	1.21	
151 1,2,4-Trichlorobenzene	180	14.328	14.328	0.000	94	170397	1.00	1.35	
152 Hexachlorobutadiene	225	14.414	14.413	0.001	96	72272	1.00	1.21	
153 Naphthalene	128	14.511	14.511	0.000	96	262955	1.00	1.23	
154 1,2,3-Trichlorobenzene	180	14.651	14.651	0.000	96	144662	1.00	1.30	
155 2-Methylnaphthalene	142	15.267	15.261	0.006	94	176161	1.00	1.30	
166 Pentane	43	2.934	2.916	0.018	98	68584	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00052	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00108	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00056	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00037	Amount Added:	1.00	Units: uL	Run Reagent

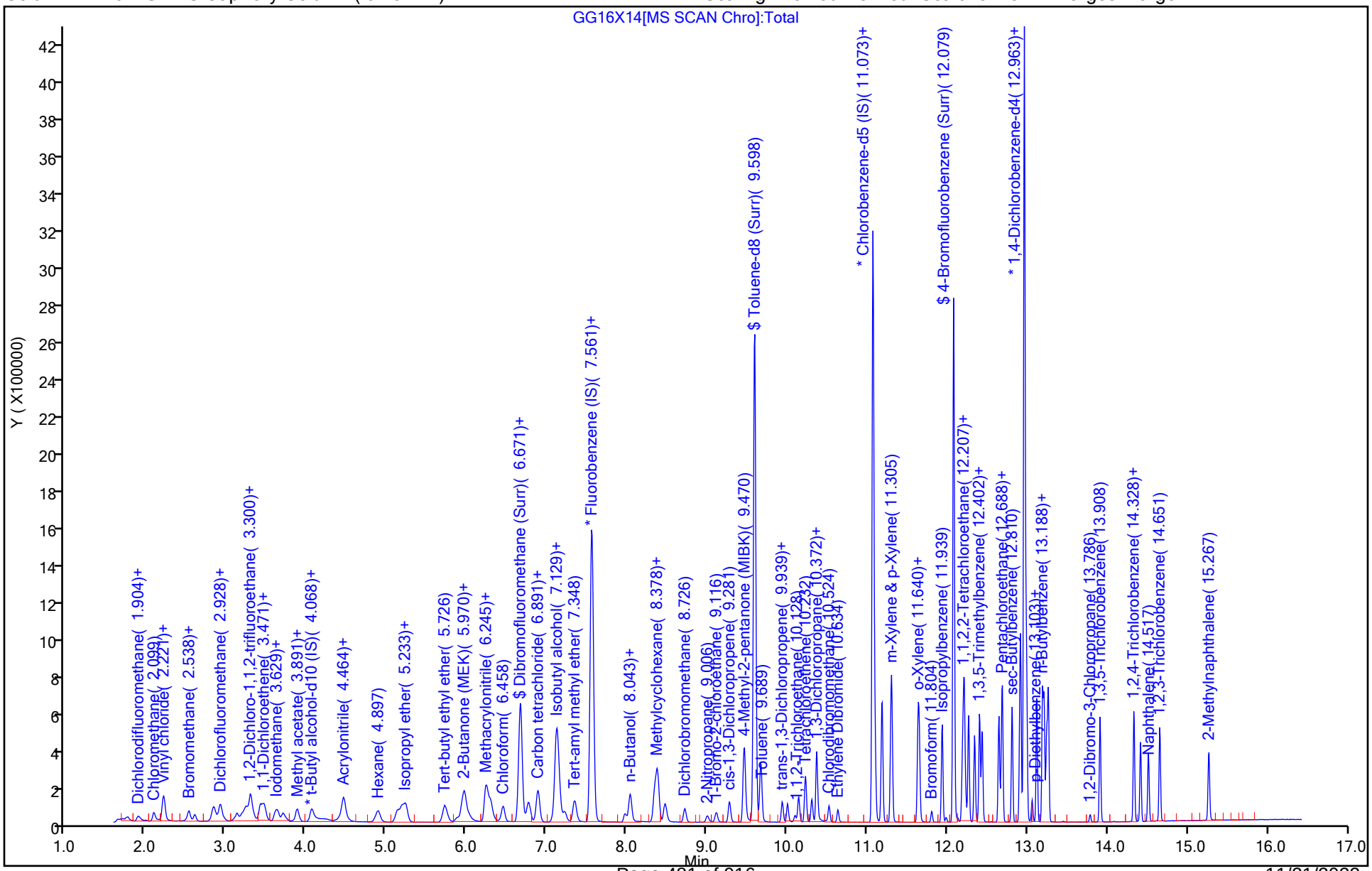
Report Date: 30-Aug-2022 10:48:36 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X14.D

Injection Date:	16-Aug-2022 18:10:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std3			Worklist Smp#:	15
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

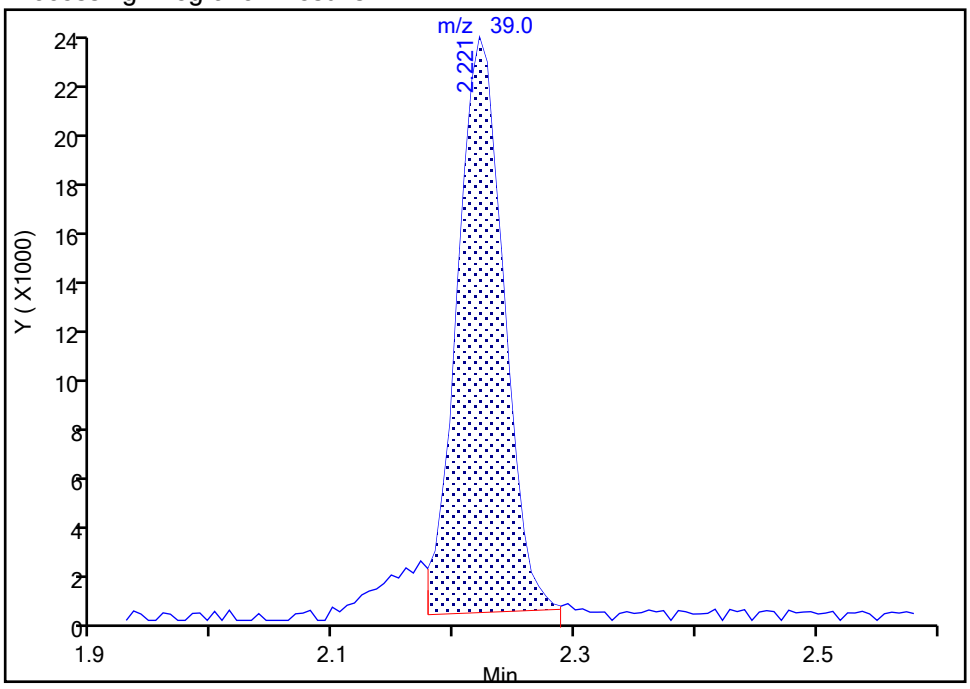
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X14.D				
Injection Date:	16-Aug-2022 18:10:30	Instrument ID:	16334		
Lims ID:	IC std3				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

7 Butadiene, CAS: 106-99-0

Signal: 1

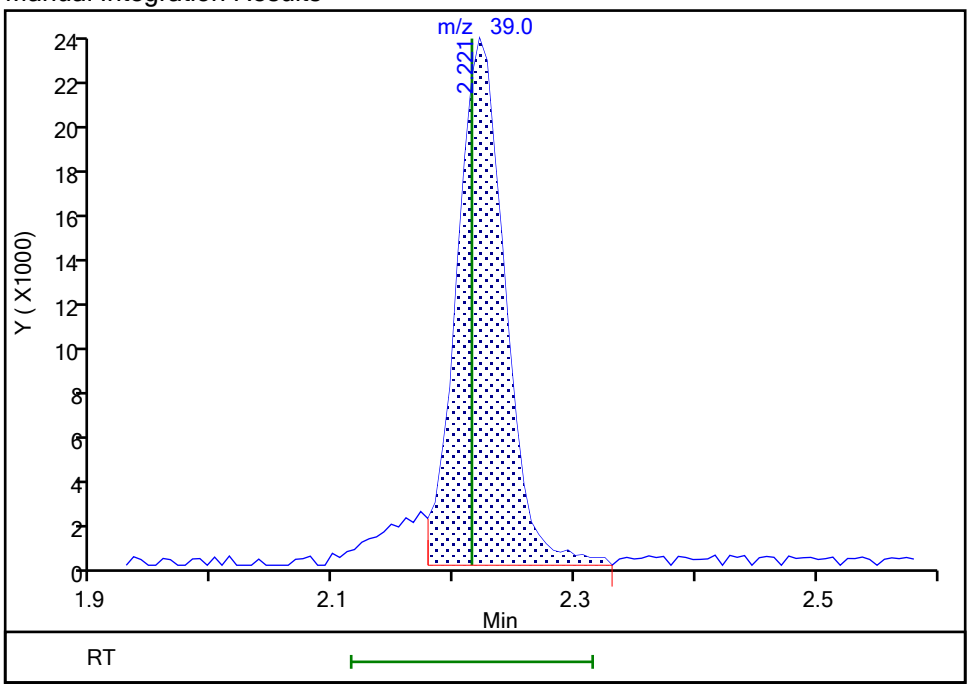
Processing Integration Results

RT: 2.22
Area: 62770
Amount: 0.996718
Amount Units: ug/l



Manual Integration Results

RT: 2.22
Area: 66066
Amount: 1.041270
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:36:21
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

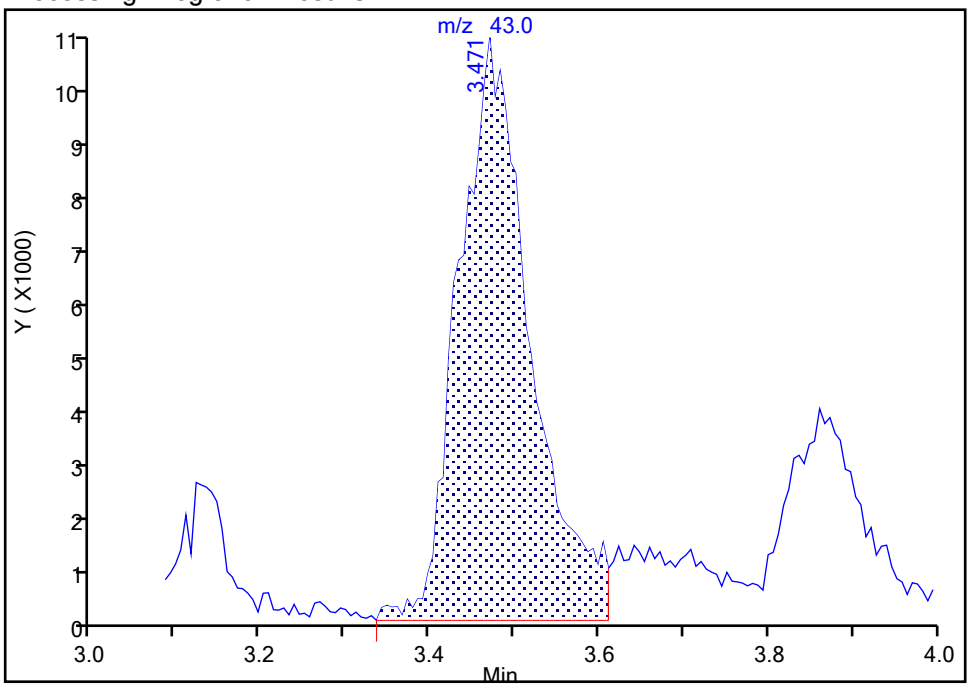
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X14.D				
Injection Date:	16-Aug-2022 18:10:30	Instrument ID:	16334		
Lims ID:	IC std3				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Acetone, CAS: 67-64-1

Signal: 1

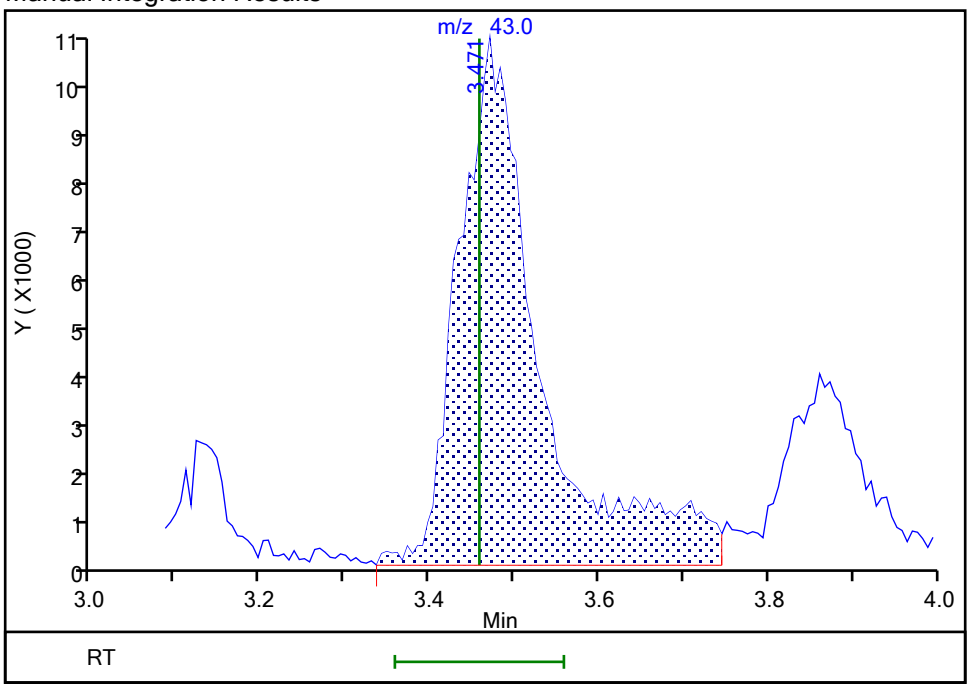
Processing Integration Results

RT: 3.47
Area: 59249
Amount: 8.710722
Amount Units: ug/l



Manual Integration Results

RT: 3.47
Area: 67653
Amount: 9.744325
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:36:51
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

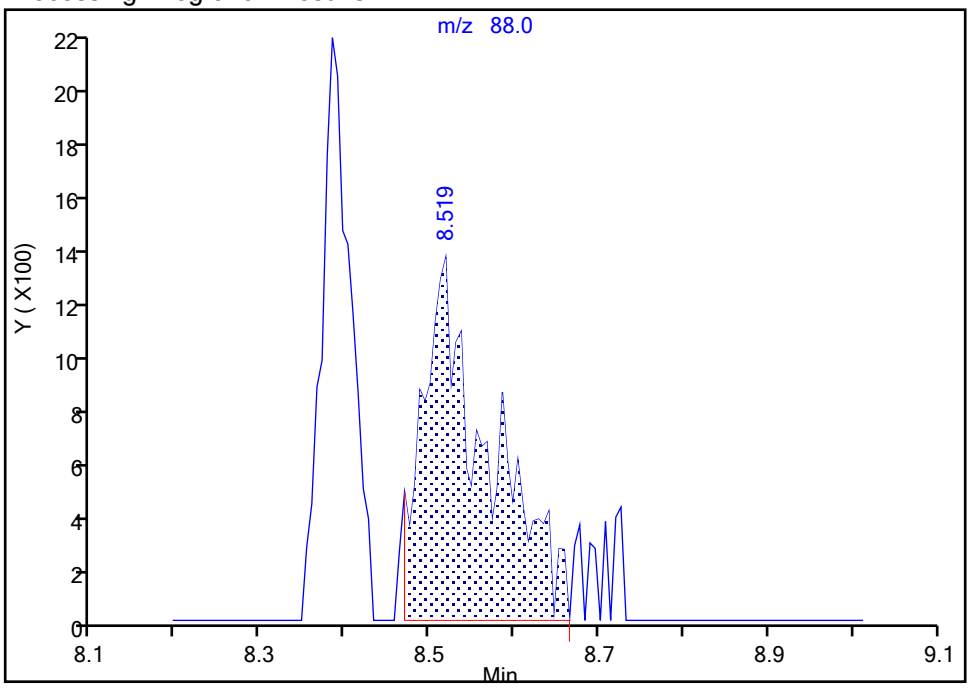
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X14.D				
Injection Date:	16-Aug-2022 18:10:30	Instrument ID:	16334		
Lims ID:	IC std3				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

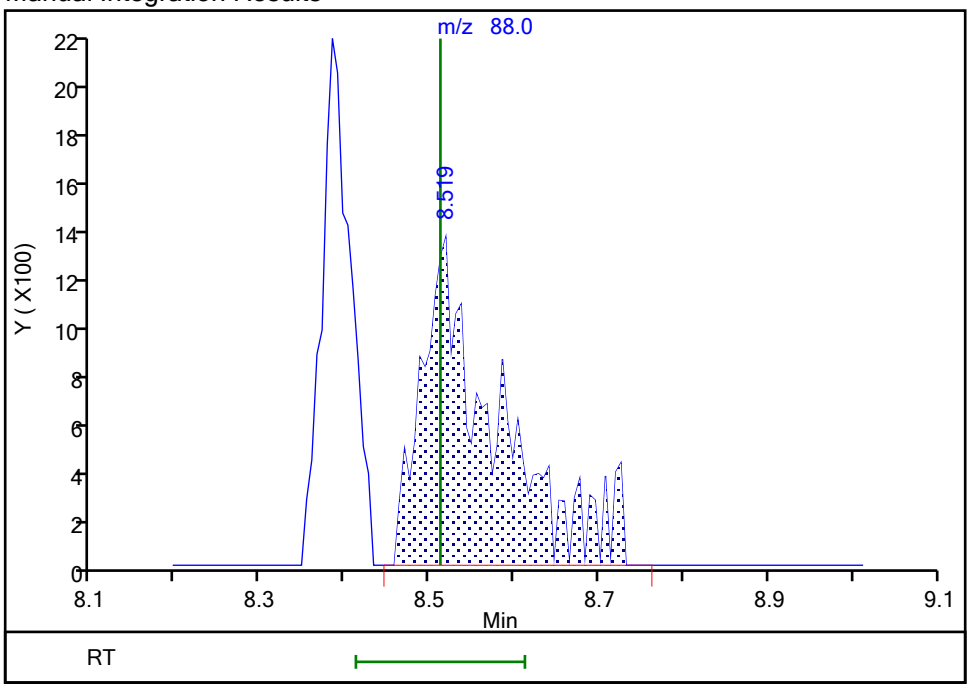
Processing Integration Results

RT: 8.52
Area: 7082
Amount: 57.397799
Amount Units: ug/l



Manual Integration Results

RT: 8.52
Area: 8023
Amount: 57.799962
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:37:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X15.D
Lims ID: IC std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 16-Aug-2022 18:32:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-016
Misc. Info.: IC STD4
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:48:41 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 17-Aug-2022 11:40:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.904	1.904	0.000	99	121942	2.00	2.09	
5 Chloromethane	50	2.099	2.099	0.000	99	135367	2.00	2.06	
6 Vinyl chloride	62	2.209	2.209	0.000	98	139755	2.00	2.08	
7 Butadiene	39	2.221	2.221	0.000	93	121727	2.00	1.91	
9 Bromomethane	94	2.532	2.532	0.000	90	108098	2.00	2.04	
10 Chloroethane	64	2.605	2.605	0.000	99	82418	2.00	2.06	
11 Dichlorofluoromethane	67	2.843	2.843	0.000	97	201792	2.00	2.06	
12 Trichlorofluoromethane	101	2.910	2.910	0.000	95	194398	2.00	2.11	
13 Ethyl ether	59	3.135	3.135	0.000	89	87075	2.00	2.03	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.227	3.227	0.000	91	130855	2.00	2.01	
17 Acrolein	56	3.306	3.306	0.000	99	643594	100.0	111.5	
18 1,1-Dichloroethene	96	3.434	3.434	0.000	97	96997	2.00	2.01	
20 Acetone	43	3.477	3.477	0.000	77	132378	20.0	20.9	M
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.477	3.477	0.000	89	97302	2.00	2.06	
21 Iodomethane	142	3.611	3.611	0.000	98	185762	2.00	2.03	
22 Ethyl bromide	108	3.641	3.641	0.000	98	89188	2.00	2.01	
24 Isopropyl alcohol	45	3.708	3.708	0.000	26	45850	40.0	37.0	
23 Carbon disulfide	76	3.714	3.714	0.000	99	228472	2.00	1.94	
25 Methyl acetate	43	3.867	3.867	0.000	45	41982	2.00	2.14	
27 3-Chloro-1-propene	41	3.885	3.885	0.000	89	126514	2.00	1.94	
29 Methylene Chloride	84	4.068	4.068	0.000	86	110925	2.00	2.07	
* 30 t-Butyl alcohol-d10 (IS)	65	4.117	4.117	0.000	61	124917	50.0	50.0	
31 2-Methyl-2-propanol	59	4.233	4.233	0.000	97	95457	40.0	43.1	
32 Acrylonitrile	53	4.403	4.403	0.000	98	50401	5.00	6.00	
33 Methyl tert-butyl ether	73	4.458	4.458	0.000	89	281948	2.00	2.04	
34 trans-1,2-Dichloroethene	96	4.470	4.470	0.000	97	115672	2.00	2.05	
35 Hexane	57	4.891	4.891	0.000	91	124939	2.00	2.03	
37 1,1-Dichloroethane	63	5.135	5.135	0.000	96	184918	2.00	2.02	
38 Isopropyl ether	45	5.202	5.202	0.000	93	308794	2.00	2.03	
39 2-Chloro-1,3-butadiene	53	5.245	5.245	0.000	90	148170	2.00	2.03	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.726	5.726	0.000	97	318098	2.00	2.04	
41 2-Butanone (MEK)	43	5.946	5.946	0.000	99	273098	20.0	21.8	
42 cis-1,2-Dichloroethene	96	5.970	5.970	0.000	80	125389	2.00	2.03	
43 2,2-Dichloropropane	77	5.988	5.988	0.000	87	147961	2.00	1.99	
45 Propionitrile	54	6.037	6.037	0.000	98	129473	40.0	43.7	
S 47 1,2-Dichloroethene, Total	100				0			4.08	
48 Methacrylonitrile	67	6.244	6.244	0.000	90	302812	20.0	22.7	
49 Chlorobromomethane	128	6.305	6.305	0.000	86	61518	2.00	2.08	
50 Tetrahydrofuran	71	6.311	6.311	0.000	70	41668	10.0	11.2	
51 Chloroform	83	6.458	6.458	0.000	93	200225	2.00	2.04	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.671	0.000	94	562381	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.683	6.683	0.000	98	171777	2.00	2.00	
54 Cyclohexane	56	6.775	6.775	0.000	88	158669	2.00	2.03	
56 Carbon tetrachloride	117	6.884	6.884	0.000	84	147932	2.00	2.00	
57 1,1-Dichloropropene	75	6.897	6.897	0.000	96	154228	2.00	2.02	
58 Isobutyl alcohol	41	7.086	7.086	0.000	90	77842	100.0	96.7	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.122	7.122	0.000	79	118676	10.0	10.0	
60 Benzene	78	7.159	7.159	0.000	96	454392	2.00	2.02	
61 1,2-Dichloroethane	62	7.220	7.220	0.000	98	132376	2.00	2.07	
63 Tert-amyl methyl ether	73	7.348	7.348	0.000	98	300963	2.00	2.03	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2244586	10.0	10.0	
65 n-Heptane	43	7.573	7.573	0.000	87	130073	2.00	2.02	
67 n-Butanol	56	7.982	7.982	0.000	88	120549	175.0	186.6	
68 Trichloroethene	95	8.043	8.043	0.000	96	125798	2.00	2.00	
69 Methylcyclohexane	83	8.348	8.348	0.000	88	192698	2.00	2.06	M
70 1,2-Dichloropropane	63	8.372	8.372	0.000	95	110737	2.00	2.01	
71 2-ethoxy-2-methyl butane	87	8.384	8.384	0.000	96	177346	2.00	2.02	
72 Methyl methacrylate	69	8.470	8.470	0.000	87	58583	2.00	2.25	
73 Dibromomethane	93	8.482	8.482	0.000	92	61890	2.00	2.05	
74 1,4-Dioxane	88	8.512	8.512	0.000	28	13711	100.0	100.9	M
76 Dichlorobromomethane	83	8.726	8.726	0.000	99	131278	2.00	1.99	
77 2-Nitropropane	41	9.000	9.000	0.000	99	62444	10.0	10.7	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	98	122662	2.00	2.06	
81 cis-1,3-Dichloropropene	75	9.280	9.280	0.000	96	167481	2.00	2.03	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	96	736571	20.0	22.4	
$ 83 Toluene-d8 (Surr)	98	9.597	9.597	0.000	93	2269767	10.0	10.0	
84 Toluene	92	9.677	9.677	0.000	98	310469	2.00	2.02	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	92	137931	2.00	2.02	
104 Ethyl methacrylate	69	10.006	10.006	0.000	88	119274	2.00	2.03	
S 105 1,3-Dichloropropene, Total	100				0			4.05	
106 1,1,2-Trichloroethane	97	10.146	10.146	0.000	90	90526	2.00	2.01	
107 Tetrachloroethene	166	10.231	10.231	0.000	97	154129	2.00	2.00	
108 1,3-Dichloropropane	76	10.311	10.311	0.000	89	149909	2.00	2.03	
109 2-Hexanone	43	10.372	10.372	0.000	96	532561	20.0	22.2	
111 Chlorodibromomethane	129	10.524	10.524	0.000	89	100469	2.00	2.04	
112 Ethylene Dibromide	107	10.634	10.634	0.000	99	90775	2.00	2.04	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1767884	10.0	10.0	
114 1-Chlorohexane	91	11.085	11.085	0.000	95	167744	2.00	1.95	
115 Chlorobenzene	112	11.097	11.097	0.000	97	373854	2.00	2.01	
117 1,1,1,2-Tetrachloroethane	131	11.182	11.182	0.000	94	121181	2.00	2.03	
116 Ethylbenzene	91	11.188	11.188	0.000	98	598666	2.00	2.01	
S 118 Xylenes, Total	106				0			6.07	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 m-Xylene & p-Xylene	106	11.304	11.304	0.000	100	483843	4.00	4.05	
120 o-Xylene	106	11.634	11.634	0.000	96	239128	2.00	2.02	
121 Styrene	104	11.652	11.652	0.000	95	405386	2.00	2.02	
122 Bromoform	173	11.804	11.804	0.000	97	54321	2.00	1.96	
123 Isopropylbenzene	105	11.938	11.938	0.000	95	608693	2.00	2.01	
$ 126 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	94	844497	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.188	12.188	0.000	94	114734	2.00	2.03	
128 Bromobenzene	156	12.194	12.194	0.000	93	164416	2.00	2.02	
129 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	94	266551	20.0	22.0	
130 1,2,3-Trichloropropane	110	12.231	12.231	0.000	82	32366	2.00	2.00	
131 N-Propylbenzene	91	12.268	12.268	0.000	98	713265	2.00	2.01	
132 2-Chlorotoluene	126	12.341	12.341	0.000	98	153864	2.00	1.97	
133 1,3,5-Trimethylbenzene	105	12.402	12.402	0.000	94	535420	2.00	2.01	
134 4-Chlorotoluene	126	12.438	12.438	0.000	96	160453	2.00	1.96	
135 tert-Butylbenzene	134	12.646	12.646	0.000	92	118213	2.00	1.93	
136 Pentachloroethane	167	12.676	12.676	0.000	87	88614	2.00	2.02	
137 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	96	554653	2.00	2.02	
138 sec-Butylbenzene	105	12.810	12.810	0.000	94	672099	2.00	2.01	
139 1,3-Dichlorobenzene	146	12.908	12.908	0.000	99	330665	2.00	1.97	
140 4-Isopropyltoluene	119	12.920	12.920	0.000	97	615806	2.00	2.02	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	94	1056705	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.981	12.981	0.000	96	336330	2.00	1.91	
143 1,2,3-Trimethylbenzene	120	12.993	12.993	0.000	98	252371	2.00	2.00	
144 Benzyl chloride	126	13.060	13.060	0.000	98	35450	2.00	1.74	
145 p-Diethylbenzene	119	13.121	13.121	0.000	93	363783	2.00	2.01	
146 n-Butylbenzene	92	13.206	13.206	0.000	97	292758	2.00	1.97	
147 1,2-Dichlorobenzene	146	13.243	13.243	0.000	99	312578	2.00	1.98	
149 1,2-Dibromo-3-Chloropropane	155	13.786	13.786	0.000	89	16770	2.00	2.02	
150 1,3,5-Trichlorobenzene	180	13.907	13.907	0.000	98	263813	2.00	1.95	
151 1,2,4-Trichlorobenzene	180	14.328	14.328	0.000	94	243272	2.00	1.92	
152 Hexachlorobutadiene	225	14.413	14.413	0.000	96	116692	2.00	1.94	
153 Naphthalene	128	14.511	14.511	0.000	96	419110	2.00	1.95	
154 1,2,3-Trichlorobenzene	180	14.651	14.651	0.000	96	213681	2.00	1.90	
155 2-Methylnaphthalene	142	15.267	15.267	0.000	93	255287	2.00	1.86	
166 Pentane	43	2.928	2.928	0.000	96	125413	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00052	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00108	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00056	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00037	Amount Added:	1.00	Units: uL	Run Reagent

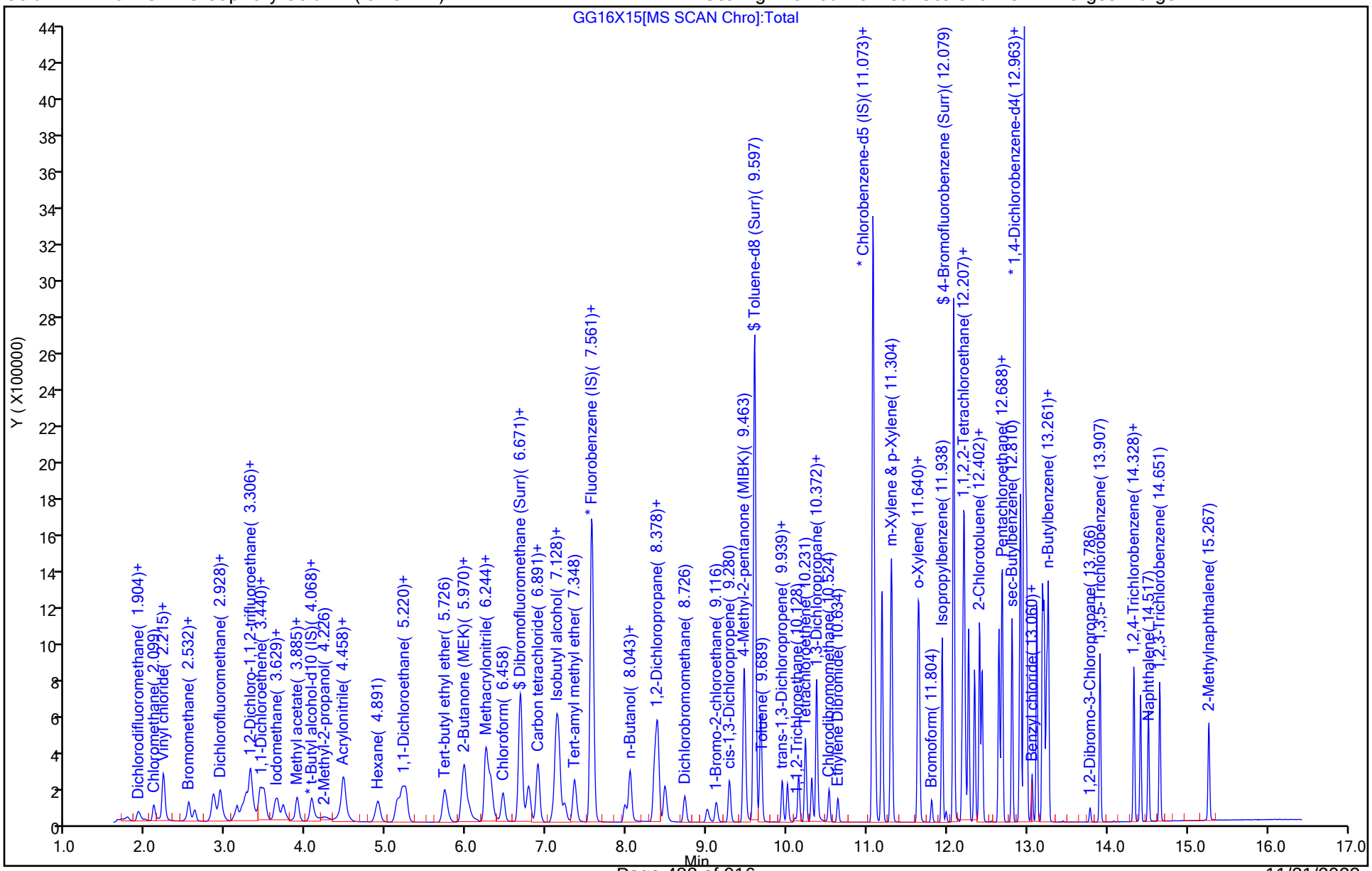
Report Date: 30-Aug-2022 10:48:42 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X15.D

Injection Date:	16-Aug-2022 18:32:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std4			Worklist Smp#:	16
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



11/21/2022
12:36 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

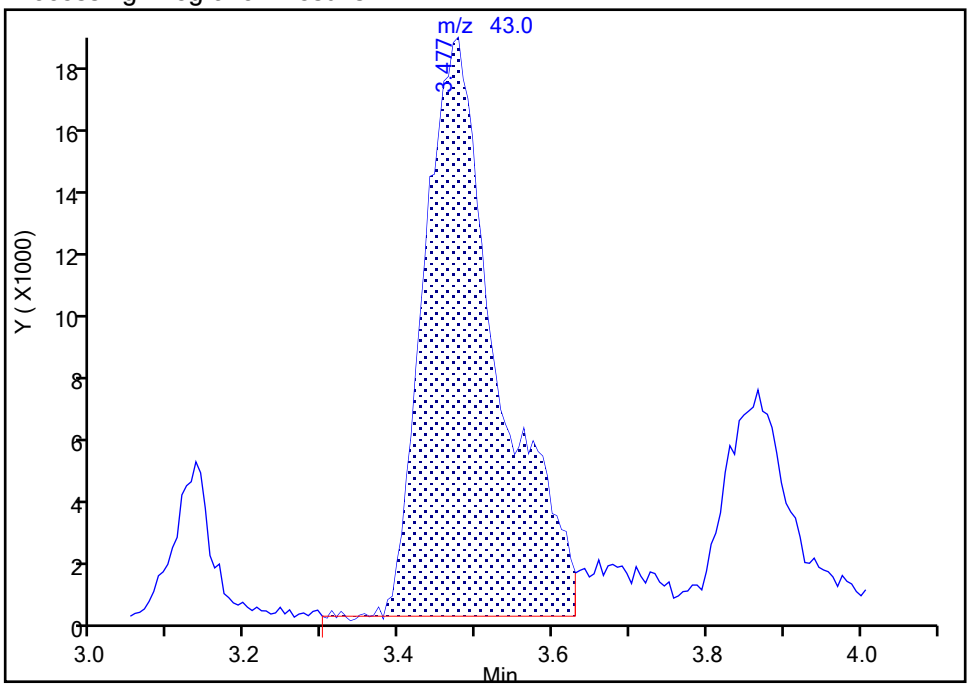
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X15.D				
Injection Date:	16-Aug-2022 18:32:30	Instrument ID:	16334		
Lims ID:	IC std4				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Acetone, CAS: 67-64-1

Signal: 1

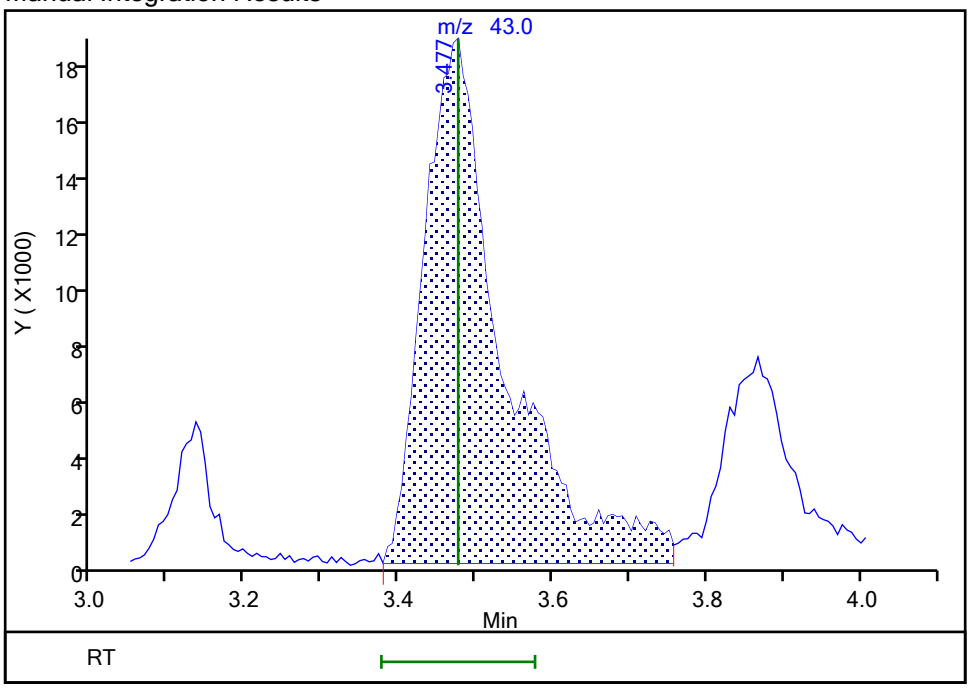
Processing Integration Results

RT: 3.48
Area: 120806
Amount: 19.132919
Amount Units: ug/l



Manual Integration Results

RT: 3.48
Area: 132378
Amount: 20.902527
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:38:59
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

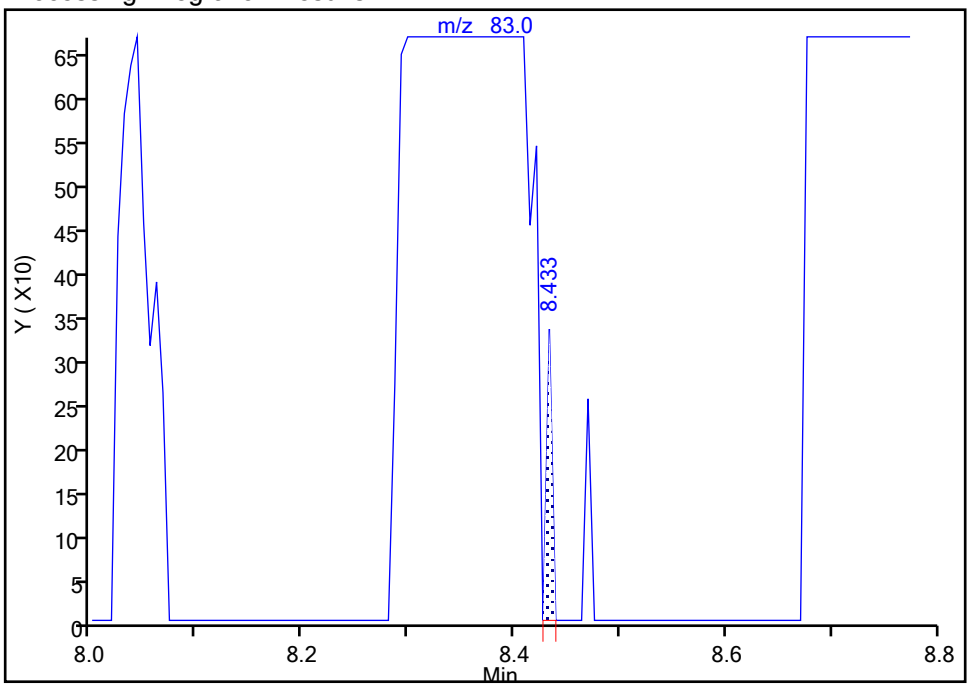
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X15.D				
Injection Date:	16-Aug-2022 18:32:30	Instrument ID:	16334		
Lims ID:	IC std4				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

69 Methylcyclohexane, CAS: 108-87-2

Signal: 1

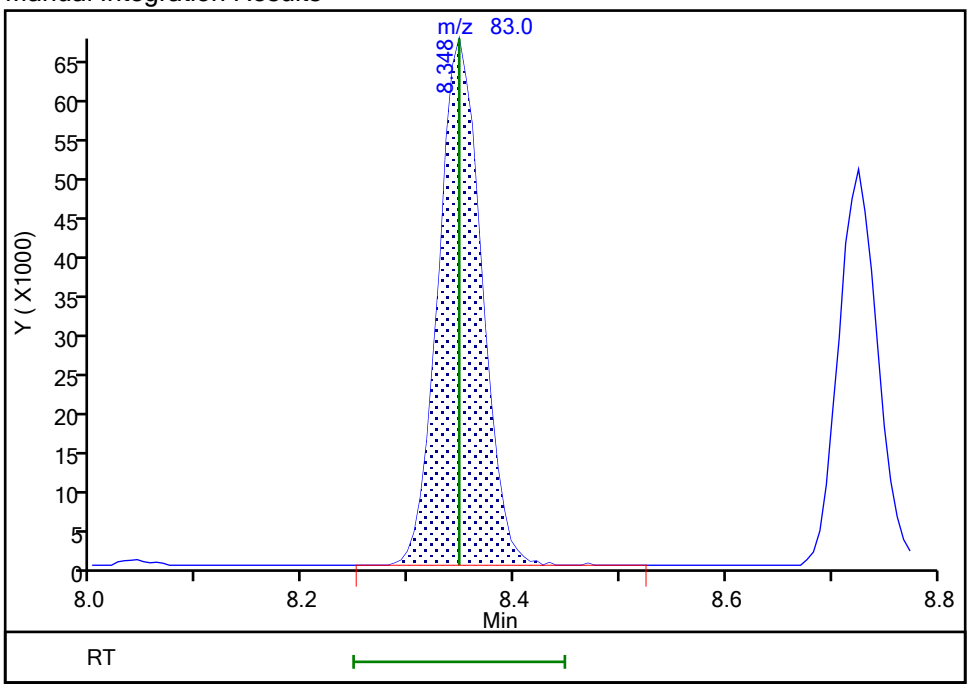
Processing Integration Results

RT: 8.43
Area: 122
Amount: 0.001532
Amount Units: ug/l



Manual Integration Results

RT: 8.35
Area: 192698
Amount: 2.062920
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:39:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

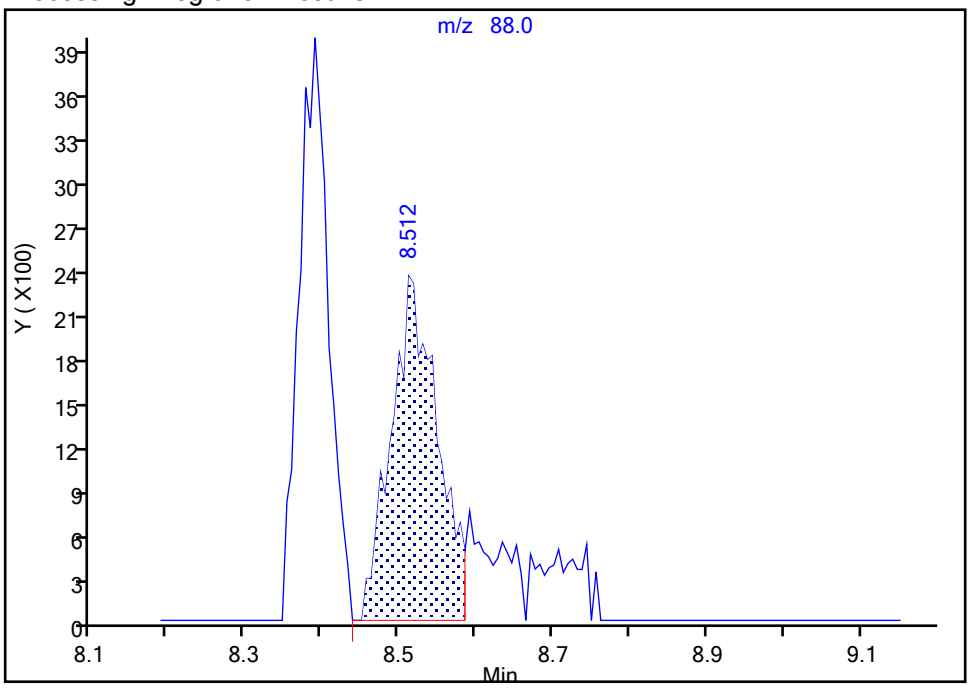
Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X15.D
Injection Date: 16-Aug-2022 18:32:30 Instrument ID: 16334
Lims ID: IC std4
Client ID:
Operator ID: knk41612 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

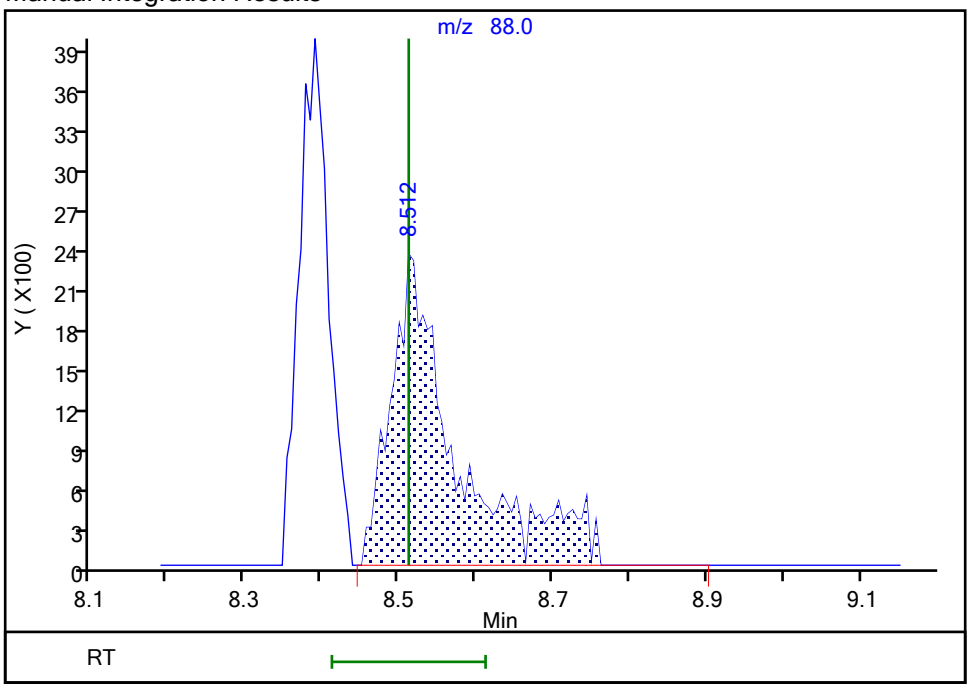
Processing Integration Results

RT: 8.51
Area: 9681
Amount: 84.181392
Amount Units: ug/l



Manual Integration Results

RT: 8.51
Area: 13711
Amount: 100.8926
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:39:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X16.D
Lims ID: IC std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 16-Aug-2022 18:54:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-017
Misc. Info.: IC STD5
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:48:48 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 17-Aug-2022 11:42:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.898	1.904	-0.006	99	309456	5.00	5.19	
5 Chloromethane	50	2.093	2.099	-0.006	99	324413	5.00	4.82	
6 Vinyl chloride	62	2.209	2.209	0.000	98	342332	5.00	4.98	
7 Butadiene	39	2.221	2.221	0.000	93	300502	5.00	4.60	
9 Bromomethane	94	2.532	2.532	0.000	90	269090	5.00	4.96	
10 Chloroethane	64	2.605	2.605	0.000	100	202614	5.00	4.94	
11 Dichlorofluoromethane	67	2.843	2.843	0.000	97	493140	5.00	4.92	
12 Trichlorofluoromethane	101	2.910	2.910	0.000	98	486482	5.00	5.15	
13 Ethyl ether	59	3.129	3.135	-0.006	89	209424	5.00	4.78	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.227	3.227	0.000	91	327426	5.00	4.91	
17 Acrolein	56	3.300	3.306	-0.006	99	1523859	250.0	232.5	
18 1,1-Dichloroethene	96	3.428	3.434	-0.006	96	245013	5.00	4.95	
20 Acetone	43	3.477	3.477	0.000	100	314354	50.0	43.7	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.465	3.477	-0.012	90	244299	5.00	5.07	
21 Iodomethane	142	3.611	3.611	0.000	99	459604	5.00	4.91	
22 Ethyl bromide	108	3.641	3.641	0.000	98	222658	5.00	4.90	
24 Isopropyl alcohol	45	3.684	3.708	-0.024	98	126180	100.0	99.4	M
23 Carbon disulfide	76	3.708	3.714	-0.006	99	605450	5.00	5.02	
25 Methyl acetate	43	3.861	3.867	-0.006	96	97635	5.00	4.38	
27 3-Chloro-1-propene	41	3.885	3.885	0.000	89	322428	5.00	4.83	
29 Methylene Chloride	84	4.062	4.068	-0.006	88	266839	5.00	4.87	
* 30 t-Butyl alcohol-d10 (IS)	65	4.129	4.117	0.012	59	141819	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.257	4.233	0.024	99	227979	100.0	90.7	
32 Acrylonitrile	53	4.403	4.403	0.000	96	118213	12.5	12.4	
33 Methyl tert-butyl ether	73	4.458	4.458	0.000	95	689081	5.00	4.88	
34 trans-1,2-Dichloroethene	96	4.464	4.470	-0.006	98	280004	5.00	4.85	
35 Hexane	57	4.891	4.891	0.000	92	320065	5.00	5.08	
37 1,1-Dichloroethane	63	5.129	5.135	-0.006	96	463810	5.00	4.94	
38 Isopropyl ether	45	5.196	5.202	-0.006	93	763339	5.00	4.92	
39 2-Chloro-1,3-butadiene	53	5.239	5.245	-0.006	90	367689	5.00	4.92	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.726	5.726	0.000	97	782406	5.00	4.90	
41 2-Butanone (MEK)	43	5.940	5.946	-0.006	99	657590	50.0	46.3	
42 cis-1,2-Dichloroethene	96	5.970	5.970	0.000	79	311354	5.00	4.93	
43 2,2-Dichloropropane	77	5.976	5.988	-0.012	86	374656	5.00	4.93	
45 Propionitrile	54	6.031	6.037	-0.006	98	309435	100.0	91.9	
S 47 1,2-Dichloroethene, Total	100				0			9.78	
48 Methacrylonitrile	67	6.238	6.244	-0.006	89	730347	50.0	48.2	
49 Chlorobromomethane	128	6.299	6.305	-0.006	86	150087	5.00	4.96	
50 Tetrahydrofuran	71	6.312	6.311	0.001	87	99709	25.0	23.6	
51 Chloroform	83	6.458	6.458	0.000	92	492942	5.00	4.90	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.671	0.000	94	569458	10.0	9.99	
53 1,1,1-Trichloroethane	97	6.677	6.683	-0.006	98	436738	5.00	4.98	
54 Cyclohexane	56	6.769	6.775	-0.006	88	400341	5.00	5.02	
56 Carbon tetrachloride	117	6.891	6.884	0.007	97	379275	5.00	5.02	
57 1,1-Dichloropropene	75	6.891	6.897	-0.006	98	379228	5.00	4.86	
58 Isobutyl alcohol	41	7.086	7.086	0.000	93	207990	250.0	252.5	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.116	7.122	-0.006	94	120145	10.0	9.92	
60 Benzene	78	7.153	7.159	-0.006	97	1119385	5.00	4.87	
61 1,2-Dichloroethane	62	7.226	7.220	0.006	98	312259	5.00	4.76	
63 Tert-amyl methyl ether	73	7.348	7.348	0.000	99	742232	5.00	4.90	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2296832	10.0	10.0	
65 n-Heptane	43	7.580	7.573	0.007	88	325135	5.00	4.93	
67 n-Butanol	56	7.976	7.982	-0.006	88	336181	437.5	458.3	
68 Trichloroethene	95	8.043	8.043	0.000	96	311065	5.00	4.84	
69 Methylcyclohexane	83	8.348	8.348	0.000	89	488253	5.00	5.11	
70 1,2-Dichloropropane	63	8.372	8.372	0.000	96	278961	5.00	4.96	
71 2-ethoxy-2-methyl butane	87	8.390	8.384	0.006	96	446248	5.00	4.96	
72 Methyl methacrylate	69	8.470	8.470	0.000	89	150481	5.00	5.10	
73 Dibromomethane	93	8.482	8.482	0.000	93	151360	5.00	4.90	
74 1,4-Dioxane	88	8.512	8.512	0.000	77	40992	250.0	251.9	
76 Dichlorobromomethane	83	8.726	8.726	0.000	99	338682	5.00	5.01	
77 2-Nitropropane	41	9.006	9.000	0.006	99	164814	25.0	24.8	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	98	302891	5.00	4.97	
81 cis-1,3-Dichloropropene	75	9.281	9.280	0.001	96	436053	5.00	5.17	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	95	1803882	50.0	48.2	
$ 83 Toluene-d8 (Surr)	98	9.598	9.597	0.001	93	2324549	10.0	10.0	
84 Toluene	92	9.671	9.677	-0.006	98	768926	5.00	4.88	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	92	363656	5.00	5.18	
104 Ethyl methacrylate	69	10.006	10.006	0.000	88	302877	5.00	5.01	
S 105 1,3-Dichloropropene, Total	100				0			10.4	
106 1,1,2-Trichloroethane	97	10.146	10.146	0.000	90	226496	5.00	4.89	
107 Tetrachloroethene	166	10.232	10.231	0.001	98	387678	5.00	4.89	
108 1,3-Dichloropropane	76	10.311	10.311	0.000	88	375996	5.00	4.95	
109 2-Hexanone	43	10.366	10.372	-0.006	96	1333367	50.0	48.9	
111 Chlorodibromomethane	129	10.524	10.524	0.000	90	260325	5.00	5.14	
112 Ethylene Dibromide	107	10.634	10.634	0.000	99	227669	5.00	4.99	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1816359	10.0	10.0	
114 1-Chlorohexane	91	11.085	11.085	0.000	94	417226	5.00	4.72	
115 Chlorobenzene	112	11.097	11.097	0.000	97	920189	5.00	4.83	
117 1,1,1,2-Tetrachloroethane	131	11.183	11.182	0.001	95	312197	5.00	5.10	
116 Ethylbenzene	91	11.189	11.188	0.001	98	1495963	5.00	4.90	
S 118 Xylenes, Total	106				0			14.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 m-Xylene & p-Xylene	106	11.305	11.304	0.001	100	1203658	10.0	9.81	
120 o-Xylene	106	11.634	11.634	0.000	96	599982	5.00	4.93	
121 Styrene	104	11.652	11.652	0.000	95	1021299	5.00	4.96	
122 Bromoform	173	11.804	11.804	0.000	98	151523	5.00	5.31	
123 Isopropylbenzene	105	11.939	11.938	0.001	95	1546232	5.00	4.97	
$ 126 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	94	867829	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.182	12.188	-0.006	93	283824	5.00	4.94	
128 Bromobenzene	156	12.195	12.194	0.001	95	403102	5.00	4.87	
129 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	92	697816	50.0	50.8	
130 1,2,3-Trichloropropane	110	12.231	12.231	0.000	81	80131	5.00	4.86	
131 N-Propylbenzene	91	12.268	12.268	0.000	98	1785725	5.00	4.94	
132 2-Chlorotoluene	126	12.341	12.341	0.000	97	389174	5.00	4.89	
133 1,3,5-Trimethylbenzene	105	12.402	12.402	0.000	94	1345338	5.00	4.97	
134 4-Chlorotoluene	126	12.432	12.438	-0.006	97	404234	5.00	4.86	
135 tert-Butylbenzene	134	12.646	12.646	0.000	92	325244	5.00	5.21	
136 Pentachloroethane	167	12.676	12.676	0.000	89	236231	5.00	5.29	
137 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	96	1385450	5.00	4.96	
138 sec-Butylbenzene	105	12.810	12.810	0.000	94	1693291	5.00	4.98	
139 1,3-Dichlorobenzene	146	12.908	12.908	0.000	99	822505	5.00	4.81	
140 4-Isopropyltoluene	119	12.920	12.920	0.000	97	1538963	5.00	4.97	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	93	1075545	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.981	12.981	0.000	96	838636	5.00	4.68	
143 1,2,3-Trimethylbenzene	120	12.993	12.993	0.000	98	627888	5.00	4.90	
144 Benzyl chloride	126	13.060	13.060	0.000	98	99881	5.00	4.52	
145 p-Diethylbenzene	119	13.115	13.121	-0.006	92	922469	5.00	5.00	
146 n-Butylbenzene	92	13.207	13.206	0.001	97	747850	5.00	4.94	
147 1,2-Dichlorobenzene	146	13.243	13.243	0.000	99	770054	5.00	4.80	
149 1,2-Dibromo-3-Chloropropane	155	13.786	13.786	0.000	91	44123	5.00	5.21	
150 1,3,5-Trichlorobenzene	180	13.908	13.907	0.001	98	661659	5.00	4.80	
151 1,2,4-Trichlorobenzene	180	14.328	14.328	0.000	94	612781	5.00	4.74	
152 Hexachlorobutadiene	225	14.414	14.413	0.001	96	296487	5.00	4.84	
153 Naphthalene	128	14.511	14.511	0.000	96	1062115	5.00	4.86	
154 1,2,3-Trichlorobenzene	180	14.651	14.651	0.000	96	542883	5.00	4.75	
155 2-Methylnaphthalene	142	15.267	15.267	0.000	92	672244	5.00	4.77	
166 Pentane	43	2.928	2.928	0.000	96	317982	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00052	Amount Added:	5.00	Units: uL	
MSV_LL_GAS826_00108	Amount Added:	5.00	Units: uL	
MSV_LL_#2_826_00056	Amount Added:	5.00	Units: uL	
MSV_29_826ISS_00037	Amount Added:	1.00	Units: uL	Run Reagent

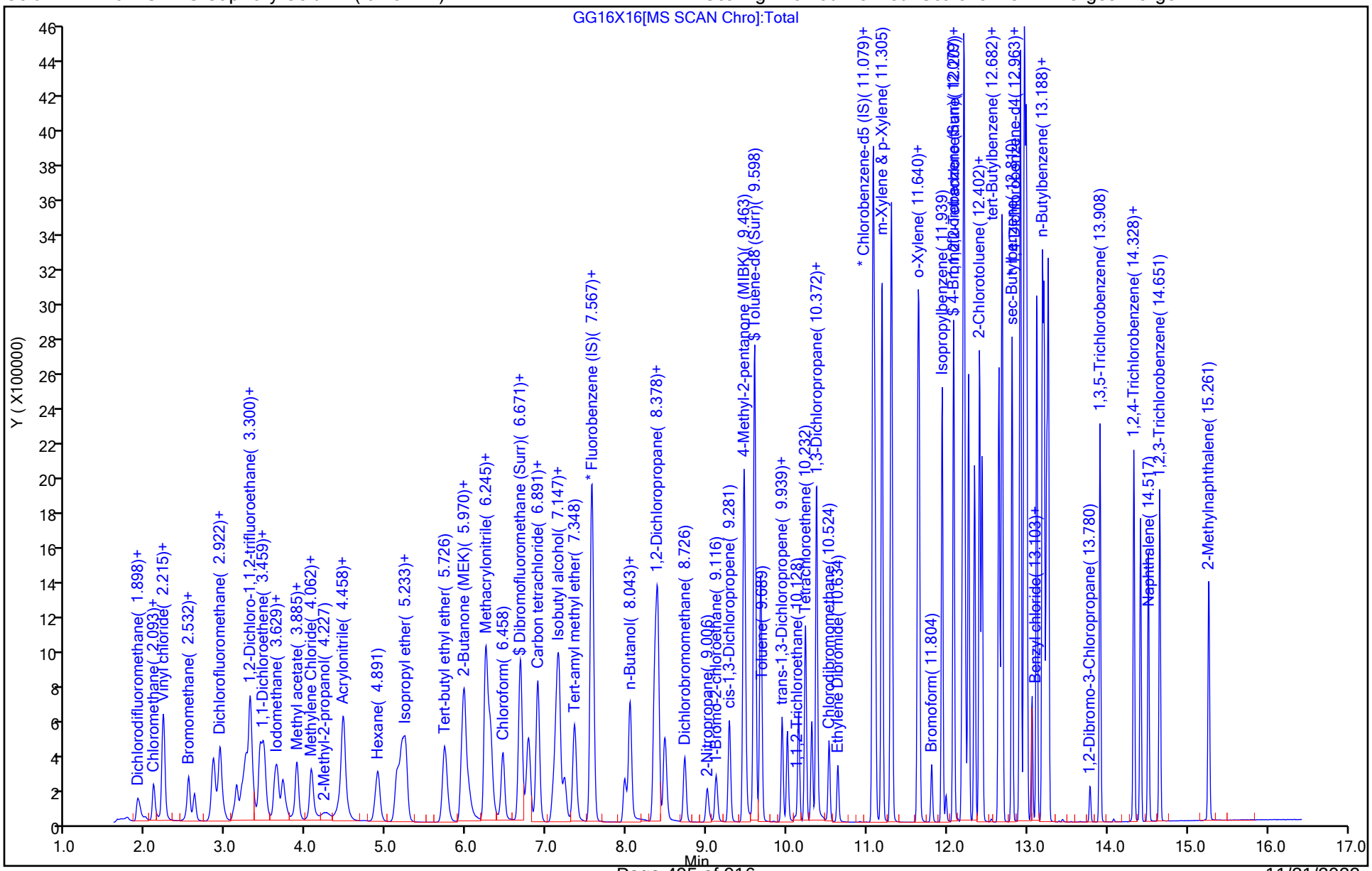
Report Date: 30-Aug-2022 10:48:49 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X16.D

Injection Date:	16-Aug-2022 18:54:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std5			Worklist Smp#:	17
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



11/21/2022
12:36 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

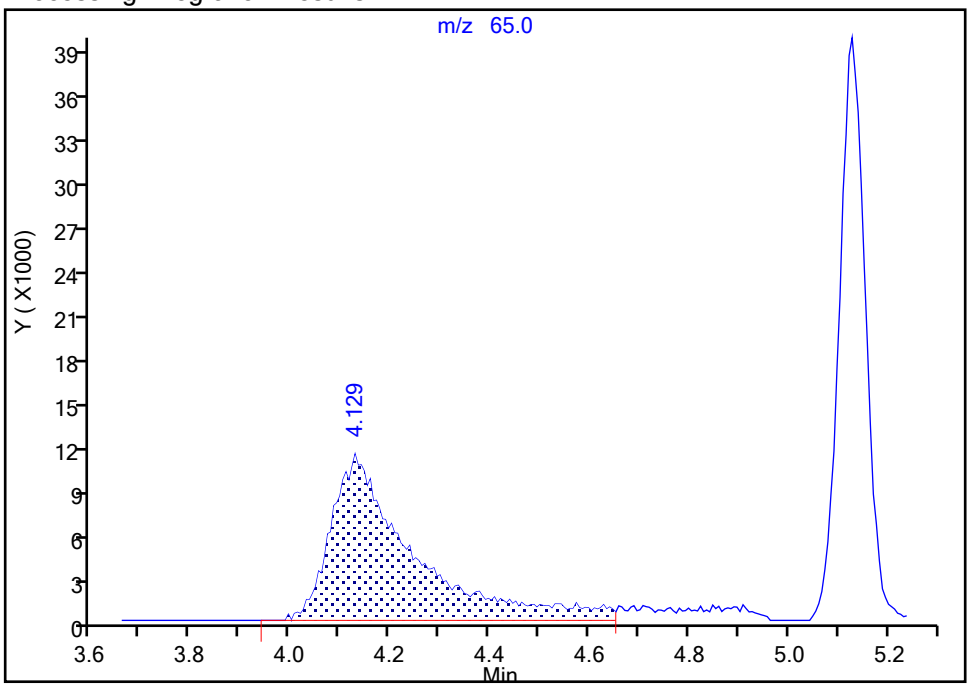
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X16.D				
Injection Date:	16-Aug-2022 18:54:30	Instrument ID:	16334		
Lims ID:	IC std5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

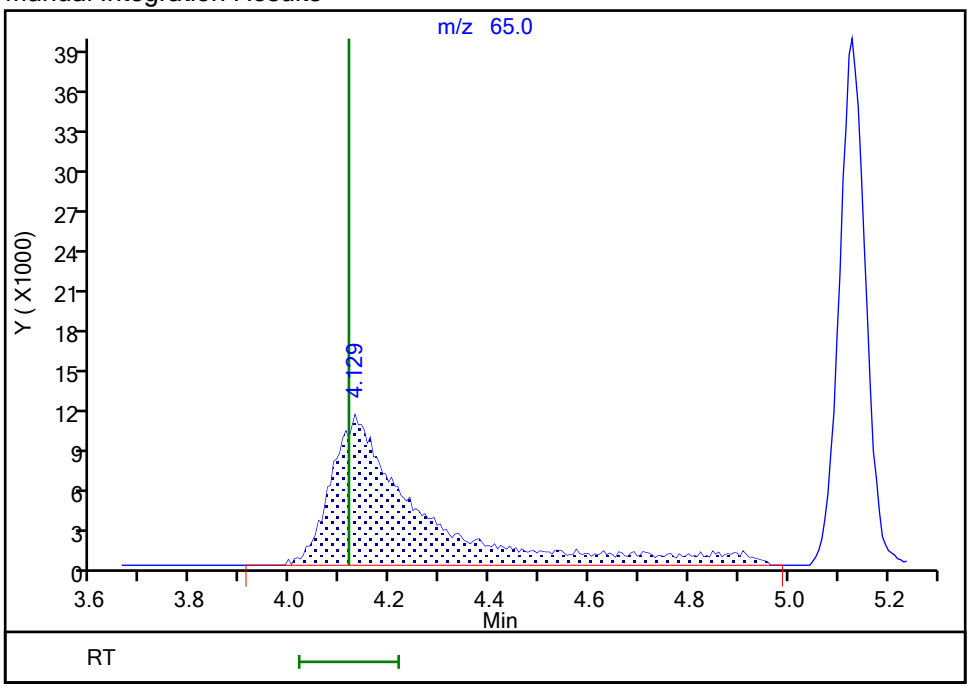
Processing Integration Results

RT: 4.13
Area: 128428
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.13
Area: 141819
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:41:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X17.D
Lims ID: ICIS std6
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 16-Aug-2022 19:17:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-018
Misc. Info.: ICIS STD6
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:48:54 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 17-Aug-2022 08:51:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.892	1.892	0.000	99	543104	10.0	8.99	
5 Chloromethane	50	2.087	2.087	0.000	99	623926	10.0	9.15	
6 Vinyl chloride	62	2.202	2.202	0.000	98	651365	10.0	9.35	
7 Butadiene	39	2.215	2.215	0.000	90	549707	10.0	8.30	
9 Bromomethane	94	2.526	2.526	0.000	90	522151	10.0	9.50	
10 Chloroethane	64	2.599	2.599	0.000	99	394390	10.0	9.49	
11 Dichlorofluoromethane	67	2.836	2.836	0.000	97	949402	10.0	9.35	
12 Trichlorofluoromethane	101	2.904	2.904	0.000	98	882397	10.0	9.21	
13 Ethyl ether	59	3.123	3.123	0.000	89	441887	10.0	9.94	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.221	3.221	0.000	89	607384	10.0	8.98	
17 Acrolein	56	3.288	3.288	0.000	99	3027113	500.0	459.4	
18 1,1-Dichloroethene	96	3.416	3.416	0.000	97	472163	10.0	9.41	
20 Acetone	43	3.458	3.458	0.000	91	611780	100.0	84.6	M
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.464	3.464	0.000	90	445620	10.0	9.12	
21 Iodomethane	142	3.605	3.605	0.000	99	916804	10.0	9.66	
22 Ethyl bromide	108	3.629	3.629	0.000	98	455305	10.0	9.89	
24 Isopropyl alcohol	45	3.690	3.690	0.000	100	252460	200.0	196.2	M
23 Carbon disulfide	76	3.702	3.702	0.000	99	1259914	10.0	10.3	
25 Methyl acetate	43	3.855	3.855	0.000	97	179295	10.0	8.00	M
27 3-Chloro-1-propene	41	3.873	3.873	0.000	90	654957	10.0	9.68	
29 Methylene Chloride	84	4.056	4.056	0.000	88	533973	10.0	9.61	
* 30 t-Butyl alcohol-d10 (IS)	65	4.111	4.111	0.000	62	142576	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.245	4.245	0.000	99	451212	200.0	178.5	
32 Acrylonitrile	53	4.391	4.391	0.000	99	225968	25.0	23.6	
33 Methyl tert-butyl ether	73	4.446	4.446	0.000	94	1380419	10.0	9.65	
34 trans-1,2-Dichloroethene	96	4.458	4.458	0.000	97	565209	10.0	9.65	
35 Hexane	57	4.885	4.885	0.000	91	578952	10.0	9.06	
37 1,1-Dichloroethane	63	5.123	5.123	0.000	96	919788	10.0	9.67	
38 Isopropyl ether	45	5.184	5.184	0.000	93	1541107	10.0	9.79	
39 2-Chloro-1,3-butadiene	53	5.232	5.232	0.000	90	738815	10.0	9.75	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.720	5.720	0.000	97	1581755	10.0	9.77	
41 2-Butanone (MEK)	43	5.933	5.933	0.000	99	1313238	100.0	92.0	
42 cis-1,2-Dichloroethene	96	5.964	5.964	0.000	80	618550	10.0	9.66	
43 2,2-Dichloropropane	77	5.976	5.976	0.000	86	750727	10.0	9.75	
45 Propionitrile	54	6.025	6.025	0.000	99	652308	200.0	192.8	
48 Methacrylonitrile	67	6.238	6.238	0.000	90	1436385	100.0	94.3	
49 Chlorobromomethane	128	6.293	6.293	0.000	87	302068	10.0	9.85	
50 Tetrahydrofuran	71	6.299	6.299	0.000	88	198158	50.0	46.7	
51 Chloroform	83	6.452	6.452	0.000	93	994318	10.0	9.75	
$ 52 Dibromofluoromethane (Surr)	113	6.665	6.665	0.000	94	574786	10.0	9.94	
53 1,1,1-Trichloroethane	97	6.671	6.671	0.000	98	878121	10.0	9.87	
54 Cyclohexane	56	6.769	6.769	0.000	88	754352	10.0	9.32	
56 Carbon tetrachloride	117	6.884	6.884	0.000	97	761646	10.0	9.95	
57 1,1-Dichloropropene	75	6.891	6.891	0.000	98	754145	10.0	9.54	
58 Isobutyl alcohol	41	7.073	7.073	0.000	93	402616	500.0	482.1	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.116	7.116	0.000	83	120860	10.0	9.84	
60 Benzene	78	7.153	7.153	0.000	96	2256270	10.0	9.68	
61 1,2-Dichloroethane	62	7.220	7.220	0.000	98	621312	10.0	9.35	
63 Tert-amyl methyl ether	73	7.348	7.348	0.000	99	1505621	10.0	9.81	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2328270	10.0	10.0	
65 n-Heptane	43	7.573	7.573	0.000	89	606617	10.0	9.07	
67 n-Butanol	56	7.970	7.970	0.000	88	678077	875.0	919.6	
68 Trichloroethene	95	8.043	8.043	0.000	96	626486	10.0	9.63	
69 Methylcyclohexane	83	8.341	8.341	0.000	88	911479	10.0	9.41	
70 1,2-Dichloropropane	63	8.372	8.372	0.000	97	560993	10.0	9.84	
71 2-ethoxy-2-methyl butane	87	8.390	8.390	0.000	97	912824	10.0	10.0	
72 Methyl methacrylate	69	8.463	8.463	0.000	89	298228	10.0	10.0	
73 Dibromomethane	93	8.482	8.482	0.000	94	308678	10.0	9.86	
74 1,4-Dioxane	88	8.512	8.512	0.000	85	82057	500.0	493.1	
76 Dichlorobromomethane	83	8.726	8.726	0.000	99	707245	10.0	10.3	
77 2-Nitropropane	41	9.000	9.000	0.000	99	347717	50.0	52.1	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	98	624555	10.0	10.1	
81 cis-1,3-Dichloropropene	75	9.280	9.280	0.000	96	908206	10.0	10.6	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	95	3614306	100.0	96.2	
$ 83 Toluene-d8 (Surr)	98	9.591	9.591	0.000	93	2354853	10.0	10.0	
84 Toluene	92	9.671	9.671	0.000	98	1543929	10.0	9.69	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	91	773723	10.0	10.9	
104 Ethyl methacrylate	69	10.006	10.006	0.000	88	650478	10.0	10.6	
106 1,1,2-Trichloroethane	97	10.146	10.146	0.000	90	457075	10.0	9.75	
107 Tetrachloroethene	166	10.231	10.231	0.000	98	765371	10.0	9.54	
108 1,3-Dichloropropane	76	10.311	10.311	0.000	88	755285	10.0	9.82	
109 2-Hexanone	43	10.365	10.365	0.000	95	2742555	100.0	100.1	
111 Chlorodibromomethane	129	10.524	10.524	0.000	89	564766	10.0	11.0	
112 Ethylene Dibromide	107	10.634	10.634	0.000	98	463425	10.0	10.0	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	85	1837007	10.0	10.0	
114 1-Chlorohexane	91	11.085	11.085	0.000	94	822913	10.0	9.21	
115 Chlorobenzene	112	11.097	11.097	0.000	97	1852203	10.0	9.60	
117 1,1,1,2-Tetrachloroethane	131	11.182	11.182	0.000	96	646499	10.0	10.4	
116 Ethylbenzene	91	11.189	11.189	0.000	98	3000498	10.0	9.71	
119 m-Xylene & p-Xylene	106	11.304	11.304	0.000	100	2438249	20.0	19.6	
120 o-Xylene	106	11.634	11.634	0.000	96	1212115	10.0	9.85	
121 Styrene	104	11.652	11.652	0.000	95	2083651	10.0	10.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
122 Bromoform	173	11.804	11.804	0.000	98	341791	10.0	11.8	
123 Isopropylbenzene	105	11.938	11.938	0.000	95	3089905	10.0	9.83	
$ 126 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	94	876789	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.188	12.188	0.000	93	586290	10.0	10.0	
128 Bromobenzene	156	12.194	12.194	0.000	94	818805	10.0	9.70	
129 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	92	1470724	100.0	106.4	
130 1,2,3-Trichloropropane	110	12.231	12.231	0.000	81	167099	10.0	9.93	
131 N-Propylbenzene	91	12.268	12.268	0.000	98	3573339	10.0	9.69	
132 2-Chlorotoluene	126	12.341	12.341	0.000	97	781491	10.0	9.64	
133 1,3,5-Trimethylbenzene	105	12.402	12.402	0.000	94	2718476	10.0	9.84	
134 4-Chlorotoluene	126	12.438	12.438	0.000	96	810236	10.0	9.56	
135 tert-Butylbenzene	134	12.646	12.646	0.000	92	644132	10.0	10.1	
136 Pentachloroethane	167	12.676	12.676	0.000	92	515383	10.0	11.3	
137 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	96	2819726	10.0	9.91	
138 sec-Butylbenzene	105	12.810	12.810	0.000	94	3397918	10.0	9.81	
139 1,3-Dichlorobenzene	146	12.908	12.908	0.000	99	1669850	10.0	9.58	
140 4-Isopropyltoluene	119	12.920	12.920	0.000	97	3116611	10.0	9.87	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	93	1096296	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.981	12.981	0.000	96	1702506	10.0	9.33	
143 1,2,3-Trimethylbenzene	120	12.993	12.993	0.000	99	1267015	10.0	9.70	
144 Benzyl chloride	126	13.060	13.060	0.000	98	222558	10.0	9.69	
145 p-Diethylbenzene	119	13.121	13.121	0.000	92	1864979	10.0	9.92	
146 n-Butylbenzene	92	13.206	13.206	0.000	97	1496880	10.0	9.70	
147 1,2-Dichlorobenzene	146	13.243	13.243	0.000	99	1560520	10.0	9.54	
149 1,2-Dibromo-3-Chloropropane	155	13.786	13.786	0.000	91	97321	10.0	11.3	
150 1,3,5-Trichlorobenzene	180	13.907	13.907	0.000	98	1349753	10.0	9.61	
151 1,2,4-Trichlorobenzene	180	14.328	14.328	0.000	94	1258666	10.0	9.55	
152 Hexachlorobutadiene	225	14.413	14.413	0.000	96	601182	10.0	9.63	
153 Naphthalene	128	14.511	14.511	0.000	96	2224425	10.0	9.98	
154 1,2,3-Trichlorobenzene	180	14.651	14.651	0.000	96	1124358	10.0	9.66	
155 2-Methylnaphthalene	142	15.261	15.261	0.000	94	1449950	10.0	10.1	
166 Pentane	43	2.916	2.916	0.000	96	578292	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00052	Amount Added: 10.00	Units: uL	
MSV_LL_GAS826_00108	Amount Added: 10.00	Units: uL	
MSV_LL_#2_826_00056	Amount Added: 10.00	Units: uL	
MSV_29_826ISS_00037	Amount Added: 1.00	Units: uL	Run Reagent

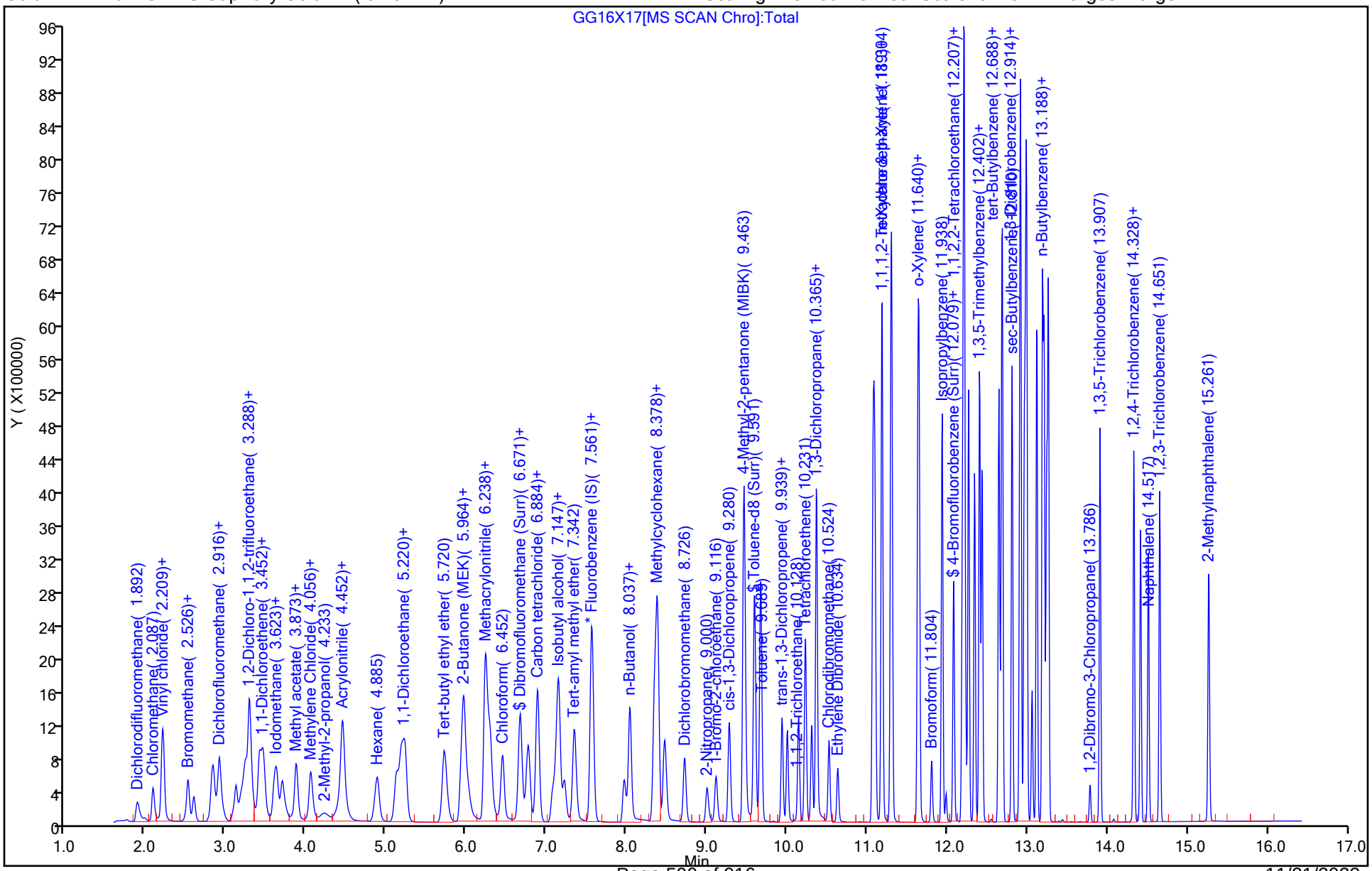
Report Date: 30-Aug-2022 10:48:55 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X17.D

Injection Date:	16-Aug-2022 19:17:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	ICIS std6			Worklist Smp#:	18
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

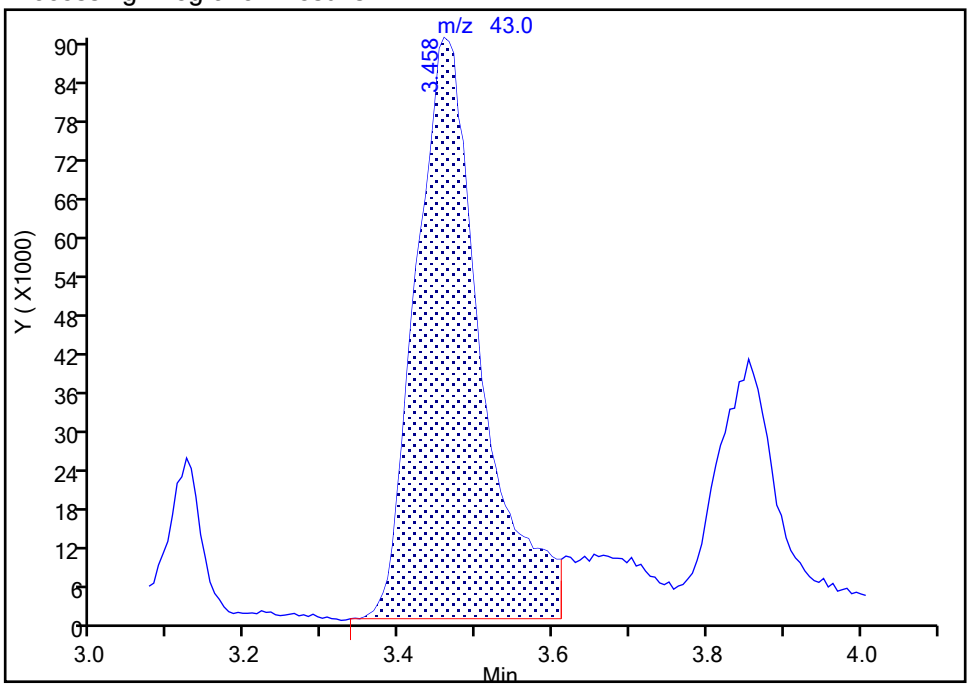
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X17.D				
Injection Date:	16-Aug-2022 19:17:30	Instrument ID:	16334		
Lims ID:	ICIS std6				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Acetone, CAS: 67-64-1

Signal: 1

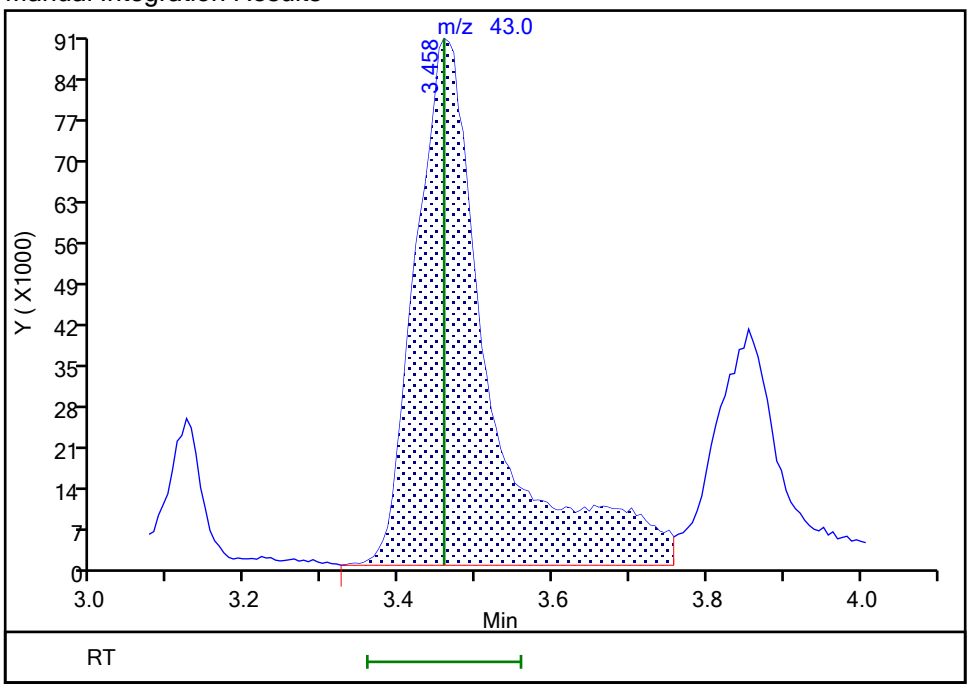
Processing Integration Results

RT: 3.46
Area: 532302
Amount: 74.545257
Amount Units: ug/l



Manual Integration Results

RT: 3.46
Area: 611780
Amount: 84.635656
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:42:49
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

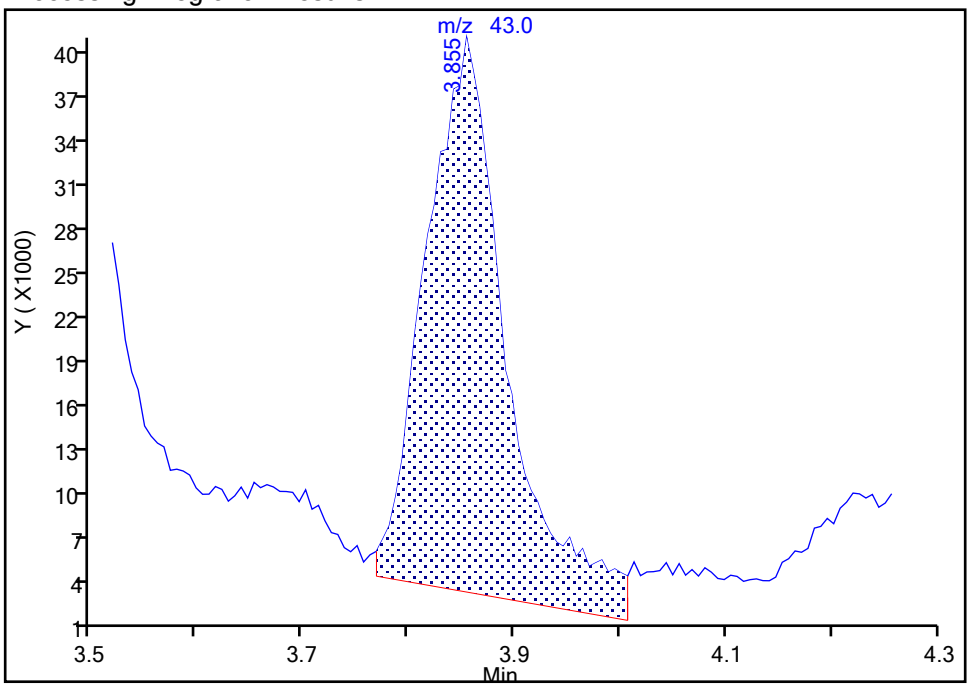
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X17.D				
Injection Date:	16-Aug-2022 19:17:30	Instrument ID:	16334		
Lims ID:	ICIS std6				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Methyl acetate, CAS: 79-20-9

Signal: 1

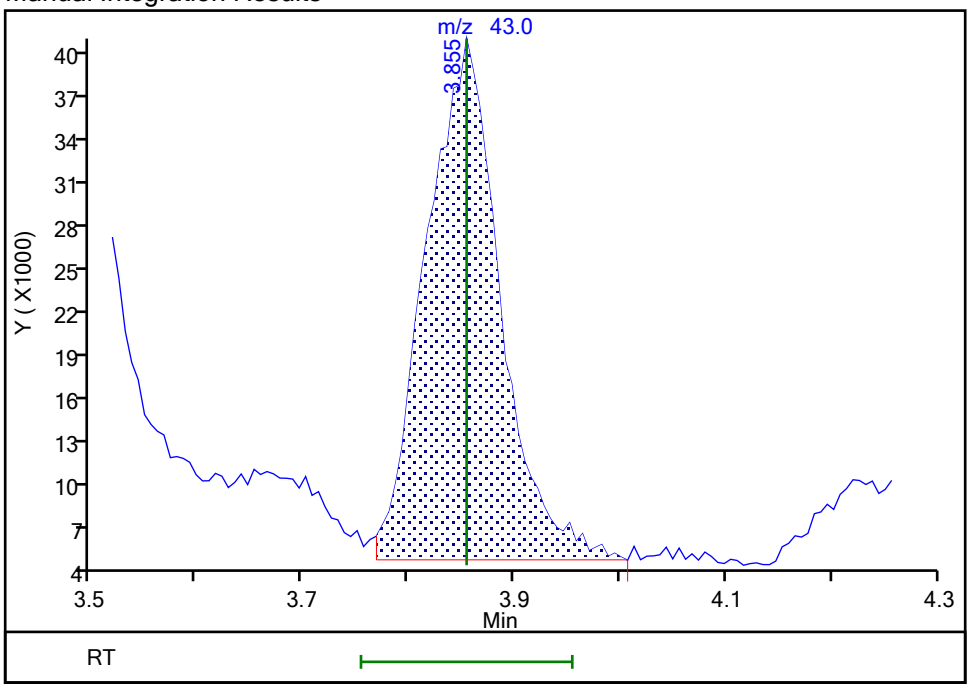
Processing Integration Results

RT: 3.85
Area: 201688
Amount: 8.683090
Amount Units: ug/l



Manual Integration Results

RT: 3.85
Area: 179295
Amount: 7.998684
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:43:32

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

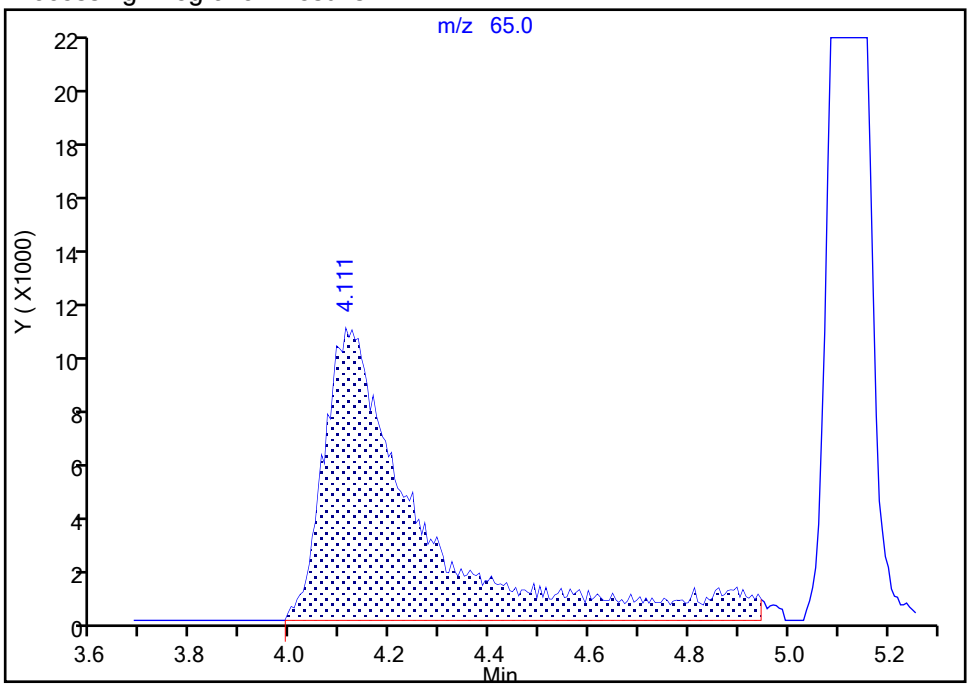
Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X17.D
Injection Date: 16-Aug-2022 19:17:30 Instrument ID: 16334
Lims ID: ICIS std6
Client ID:
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

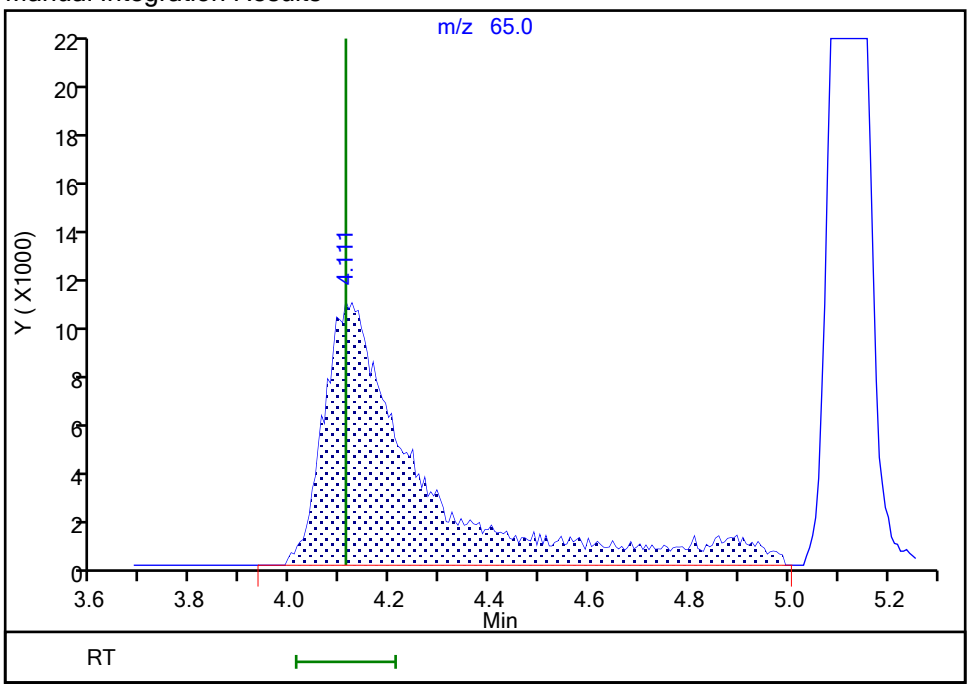
Processing Integration Results

RT: 4.11
Area: 141267
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.11
Area: 142576
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:43:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D
Lims ID: IC std7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 16-Aug-2022 19:38:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-019
Misc. Info.: IC STD7
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:49:00 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 17-Aug-2022 11:46:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.898	1.892	0.006	99	1418980	25.0	22.9	
5 Chloromethane	50	2.093	2.087	0.006	99	1527322	25.0	21.8	
6 Vinyl chloride	62	2.203	2.202	0.001	98	1653785	25.0	23.1	
7 Butadiene	39	2.215	2.215	0.000	93	1383220	25.0	20.4	
9 Bromomethane	94	2.526	2.526	0.000	90	1340018	25.0	23.8	
10 Chloroethane	64	2.605	2.599	0.006	100	1011950	25.0	23.7	
11 Dichlorofluoromethane	67	2.837	2.836	0.001	97	2394155	25.0	23.0	
12 Trichlorofluoromethane	101	2.904	2.904	0.000	98	2300799	25.0	23.4	
13 Ethyl ether	59	3.123	3.123	0.000	89	1130526	25.0	24.8	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.227	3.221	0.006	89	1564197	25.0	22.5	
17 Acrolein	56	3.294	3.288	0.006	100	7837578	1250.0	1180.1	
18 1,1-Dichloroethene	96	3.422	3.416	0.006	96	1255687	25.0	24.4	
20 Acetone	43	3.465	3.458	0.007	100	1587280	250.0	217.9	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.471	3.464	0.007	90	1192898	25.0	23.8	
21 Iodomethane	142	3.605	3.605	0.000	98	2358489	25.0	24.2	
22 Ethyl bromide	108	3.635	3.629	0.006	98	1168692	25.0	24.7	
24 Isopropyl alcohol	45	3.708	3.690	0.018	29	553111	500.0	419.0	
23 Carbon disulfide	76	3.702	3.702	0.000	99	3472934	25.0	27.7	
25 Methyl acetate	43	3.855	3.855	0.000	96	495870	25.0	21.9	M
27 3-Chloro-1-propene	41	3.879	3.873	0.006	90	1714730	25.0	24.7	
29 Methylene Chloride	84	4.062	4.056	0.006	87	1383829	25.0	24.3	
* 30 t-Butyl alcohol-d10 (IS)	65	4.147	4.111	0.036	72	143695	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.257	4.245	0.012	99	1120844	500.0	440.1	
32 Acrylonitrile	53	4.391	4.391	0.000	98	585945	62.5	60.6	
33 Methyl tert-butyl ether	73	4.452	4.446	0.006	94	3535898	25.0	24.1	
34 trans-1,2-Dichloroethene	96	4.458	4.458	0.000	97	1463454	25.0	24.3	
35 Hexane	57	4.885	4.885	0.000	92	1547621	25.0	23.6	
37 1,1-Dichloroethane	63	5.129	5.123	0.006	96	2399785	25.0	24.6	
38 Isopropyl ether	45	5.190	5.184	0.006	93	3956491	25.0	24.5	
39 2-Chloro-1,3-butadiene	53	5.239	5.232	0.007	91	1923095	25.0	24.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.726	5.720	0.006	97	4048605	25.0	24.4	
41 2-Butanone (MEK)	43	5.940	5.933	0.007	99	3350978	250.0	232.8	
42 cis-1,2-Dichloroethene	96	5.964	5.964	0.000	80	1611946	25.0	24.5	
43 2,2-Dichloropropane	77	5.982	5.976	0.006	88	1962445	25.0	24.8	
45 Propionitrile	54	6.037	6.025	0.012	99	1672892	500.0	490.6	
S 47 1,2-Dichloroethene, Total	100				0			48.9	
48 Methacrylonitrile	67	6.245	6.238	0.006	93	3743786	250.0	243.8	
49 Chlorobromomethane	128	6.299	6.293	0.006	86	784323	25.0	24.9	
50 Tetrahydrofuran	71	6.312	6.299	0.013	75	507621	125.0	118.8	
51 Chloroform	83	6.452	6.452	0.000	92	2557412	25.0	24.4	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.665	0.006	94	598690	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.677	6.671	0.006	98	2280597	25.0	25.0	
54 Cyclohexane	56	6.775	6.769	0.006	88	2007902	25.0	24.2	
56 Carbon tetrachloride	117	6.885	6.884	0.001	96	2033131	25.0	25.9	
57 1,1-Dichloropropene	75	6.891	6.891	0.000	96	1956120	25.0	24.1	
58 Isobutyl alcohol	41	7.086	7.073	0.013	94	1033218	1250.0	1205.8	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.116	0.012	92	124380	10.0	9.87	
60 Benzene	78	7.153	7.153	0.000	96	5793032	25.0	24.2	
61 1,2-Dichloroethane	62	7.226	7.220	0.006	98	1613440	25.0	23.7	
63 Tert-amyl methyl ether	73	7.348	7.348	0.000	98	3891489	25.0	24.7	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2388919	10.0	10.0	
65 n-Heptane	43	7.574	7.573	0.001	88	1598920	25.0	23.3	
67 n-Butanol	56	7.976	7.970	0.006	87	1757161	2187.5	2364.4	
68 Trichloroethene	95	8.043	8.043	0.000	96	1634955	25.0	24.5	
69 Methylcyclohexane	83	8.348	8.341	0.007	89	2441489	25.0	24.6	
70 1,2-Dichloropropane	63	8.378	8.372	0.006	93	1450984	25.0	24.8	
71 2-ethoxy-2-methyl butane	87	8.390	8.390	0.000	96	2380841	25.0	25.4	
72 Methyl methacrylate	69	8.464	8.463	0.001	88	772725	25.0	25.8	
73 Dibromomethane	93	8.482	8.482	0.000	93	799889	25.0	24.9	
74 1,4-Dioxane	88	8.512	8.512	0.000	84	191177	1250.0	1128.8	
76 Dichlorobromomethane	83	8.726	8.726	0.000	99	1870494	25.0	26.6	
77 2-Nitropropane	41	9.006	9.000	0.006	98	966836	125.0	143.8	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	98	1603431	25.0	25.3	
81 cis-1,3-Dichloropropene	75	9.280	9.280	0.000	97	2381867	25.0	27.2	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	95	9067989	250.0	239.4	
$ 83 Toluene-d8 (Surr)	98	9.598	9.591	0.007	93	2421715	10.0	10.0	
84 Toluene	92	9.677	9.671	0.007	98	3979367	25.0	24.3	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	91	2050452	25.0	28.1	
104 Ethyl methacrylate	69	10.006	10.006	0.000	88	1690447	25.0	26.9	
S 105 1,3-Dichloropropene, Total	100				0			55.3	
106 1,1,2-Trichloroethane	97	10.146	10.146	0.000	90	1173341	25.0	24.4	
107 Tetrachloroethene	166	10.232	10.231	0.001	98	1975922	25.0	24.0	
108 1,3-Dichloropropane	76	10.311	10.311	0.000	88	1950083	25.0	24.7	
109 2-Hexanone	43	10.372	10.365	0.007	94	6963294	250.0	252.1	
111 Chlorodibromomethane	129	10.524	10.524	0.000	89	1531577	25.0	29.1	
112 Ethylene Dibromide	107	10.634	10.634	0.000	99	1193896	25.0	25.2	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1887193	10.0	10.0	
114 1-Chlorohexane	91	11.085	11.085	0.000	93	2167500	25.0	23.6	
115 Chlorobenzene	112	11.097	11.097	0.000	98	4743809	25.0	23.9	
117 1,1,1,2-Tetrachloroethane	131	11.183	11.182	0.001	96	1716072	25.0	27.0	
116 Ethylbenzene	91	11.189	11.189	0.001	98	7749772	25.0	24.4	
S 118 Xylenes, Total	106				0			74.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 m-Xylene & p-Xylene	106	11.304	11.304	0.000	99	6338596	50.0	49.7	
120 o-Xylene	106	11.634	11.634	0.000	95	3147850	25.0	24.9	
121 Styrene	104	11.652	11.652	0.000	94	5405404	25.0	25.3	
122 Bromoform	173	11.804	11.804	0.000	98	960530	25.0	32.4	
123 Isopropylbenzene	105	11.939	11.938	0.000	95	7949878	25.0	24.6	
$ 126 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	95	899968	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.188	12.188	0.000	93	1506637	25.0	24.8	
128 Bromobenzene	156	12.195	12.194	0.001	94	2107684	25.0	24.1	
129 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	91	3873432	250.0	278.1	
130 1,2,3-Trichloropropane	110	12.231	12.231	0.000	80	432760	25.0	24.8	
131 N-Propylbenzene	91	12.268	12.268	0.000	98	9106742	25.0	23.8	
132 2-Chlorotoluene	126	12.341	12.341	0.000	98	2040219	25.0	24.2	
133 1,3,5-Trimethylbenzene	105	12.402	12.402	0.000	95	7032261	25.0	24.5	
134 4-Chlorotoluene	126	12.438	12.438	0.000	96	2115951	25.0	24.1	
135 tert-Butylbenzene	134	12.646	12.646	0.000	92	1564947	25.0	23.7	
136 Pentachloroethane	167	12.676	12.676	0.000	91	1382400	25.0	29.2	
137 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	96	7305524	25.0	24.7	
138 sec-Butylbenzene	105	12.810	12.810	0.000	94	8733955	25.0	24.3	
139 1,3-Dichlorobenzene	146	12.908	12.908	0.000	98	4338435	25.0	24.0	
140 4-Isopropyltoluene	119	12.920	12.920	0.000	97	8077811	25.0	24.6	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	92	1138282	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.981	12.981	0.000	95	4395359	25.0	23.2	
143 1,2,3-Trimethylbenzene	120	12.993	12.993	0.000	98	3332795	25.0	24.6	
144 Benzyl chloride	126	13.060	13.060	0.000	98	629836	25.0	26.1	
145 p-Diethylbenzene	119	13.121	13.121	0.000	92	4853558	25.0	24.9	
146 n-Butylbenzene	92	13.207	13.206	0.001	97	3911257	25.0	24.4	
147 1,2-Dichlorobenzene	146	13.243	13.243	0.000	99	4071402	25.0	24.0	
149 1,2-Dibromo-3-Chloropropane	155	13.786	13.786	0.000	92	256886	25.0	28.7	
150 1,3,5-Trichlorobenzene	180	13.908	13.907	0.001	98	3481934	25.0	23.9	
151 1,2,4-Trichlorobenzene	180	14.328	14.328	0.000	94	3251198	25.0	23.8	
152 Hexachlorobutadiene	225	14.414	14.413	0.001	96	1558972	25.0	24.0	
153 Naphthalene	128	14.511	14.511	0.000	97	5704671	25.0	24.6	
154 1,2,3-Trichlorobenzene	180	14.651	14.651	0.000	96	2876206	25.0	23.8	
155 2-Methylnaphthalene	142	15.267	15.261	0.006	93	3765795	25.0	25.1	
166 Pentane	43	2.922	2.916	0.006	96	1542367	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00052	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00108	Amount Added: 25.00	Units: uL	
MSV_LL_#2_826_00056	Amount Added: 25.00	Units: uL	
MSV_29_826ISS_00037	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 30-Aug-2022 10:49:01 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Injection Date: 16-Aug-2022 19:38:30 Instrument ID: 16334 Operator ID: knk41612

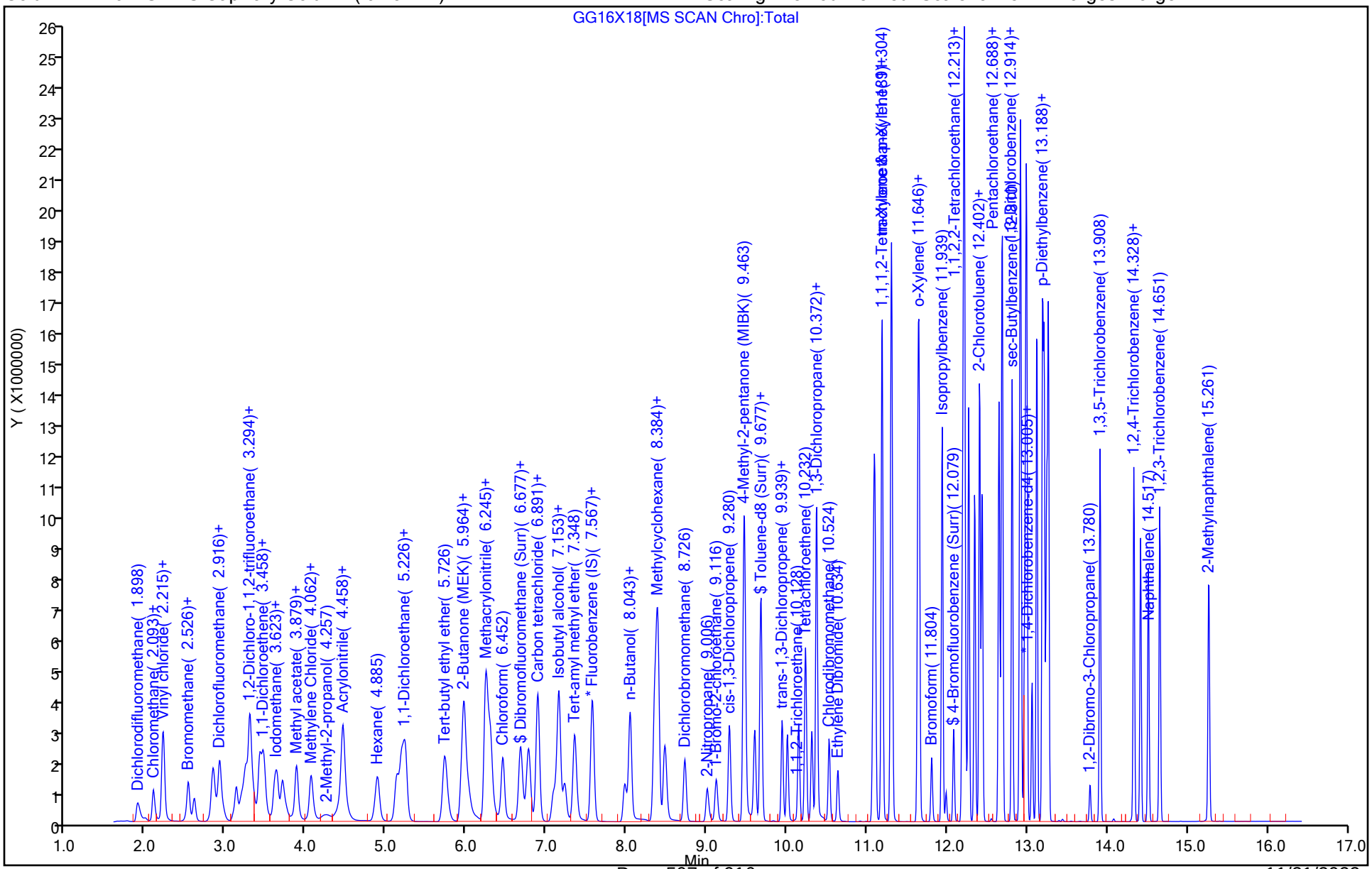
Lims ID: IC std7 Worklist Smp#: 19

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 18

Method: MSV_16334_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

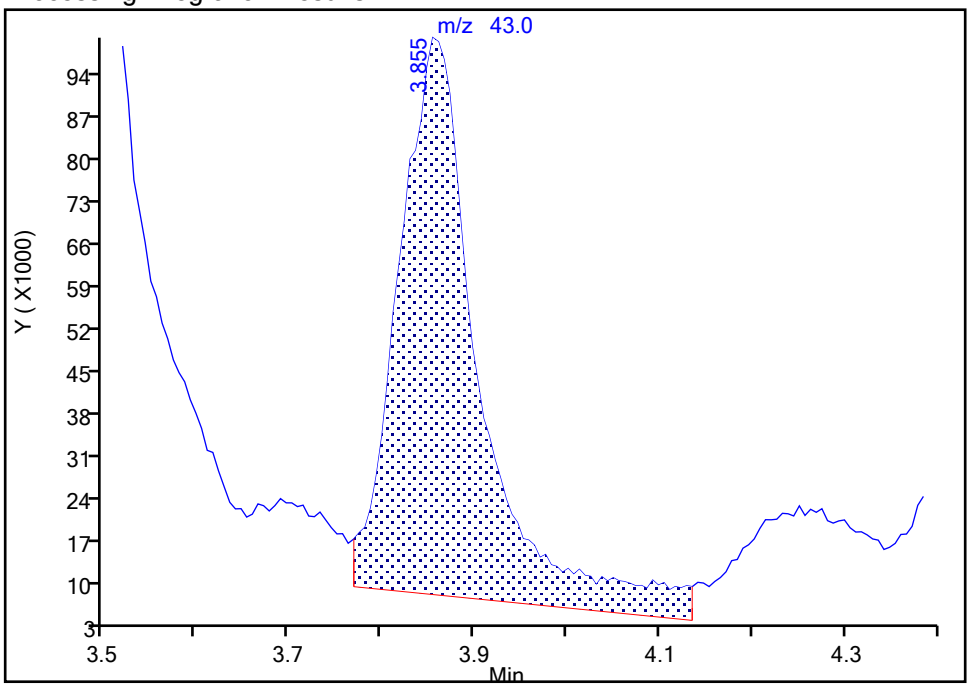
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Injection Date:	16-Aug-2022 19:38:30	Instrument ID:	16334		
Lims ID:	IC std7				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Methyl acetate, CAS: 79-20-9

Signal: 1

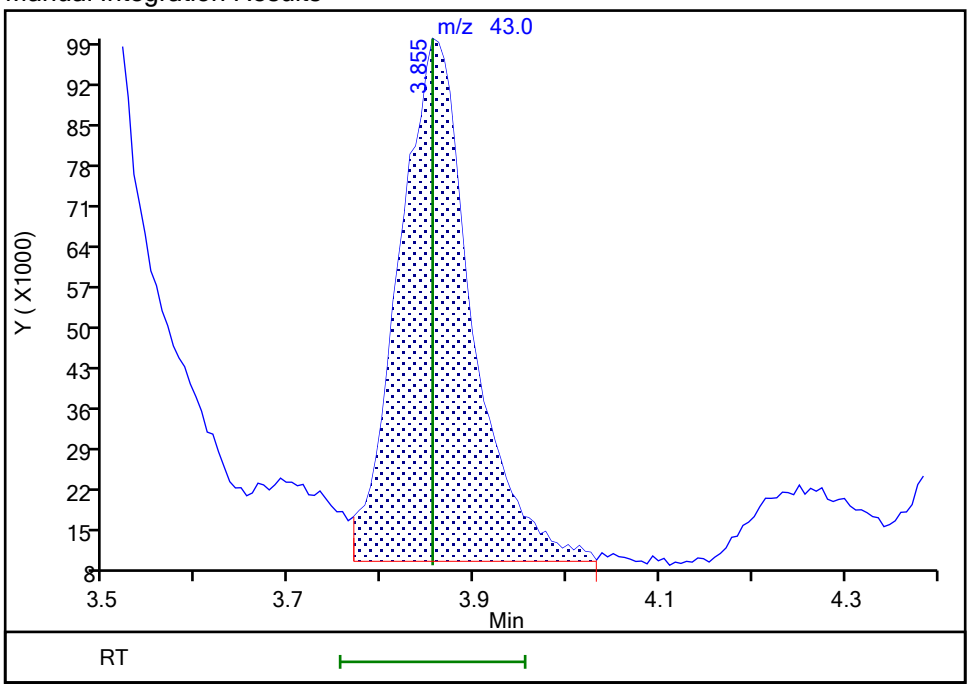
Processing Integration Results

RT: 3.85
Area: 562827
Amount: 26.460467
Amount Units: ug/l



Manual Integration Results

RT: 3.85
Area: 495870
Amount: 21.949416
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:45:04
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

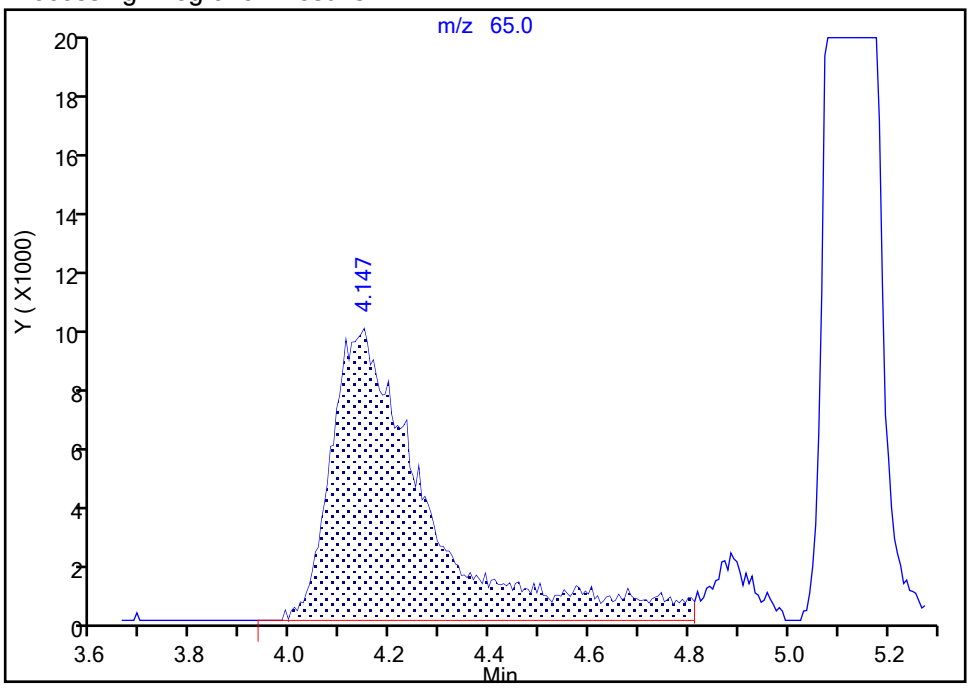
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Injection Date:	16-Aug-2022 19:38:30	Instrument ID:	16334		
Lims ID:	IC std7				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

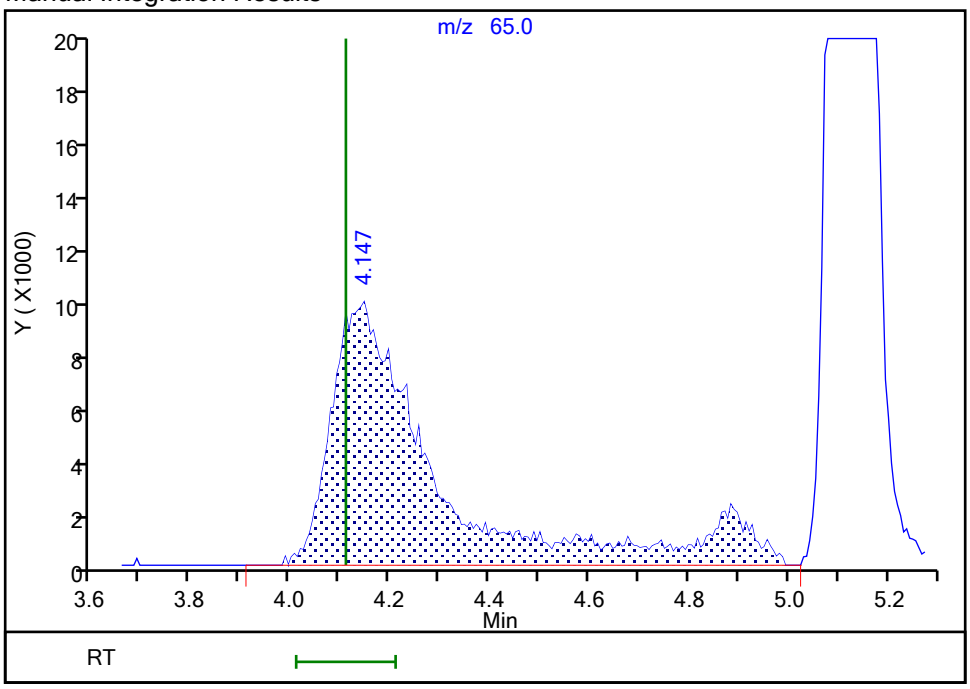
Processing Integration Results

RT: 4.15
Area: 131305
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.15
Area: 143695
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:45:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

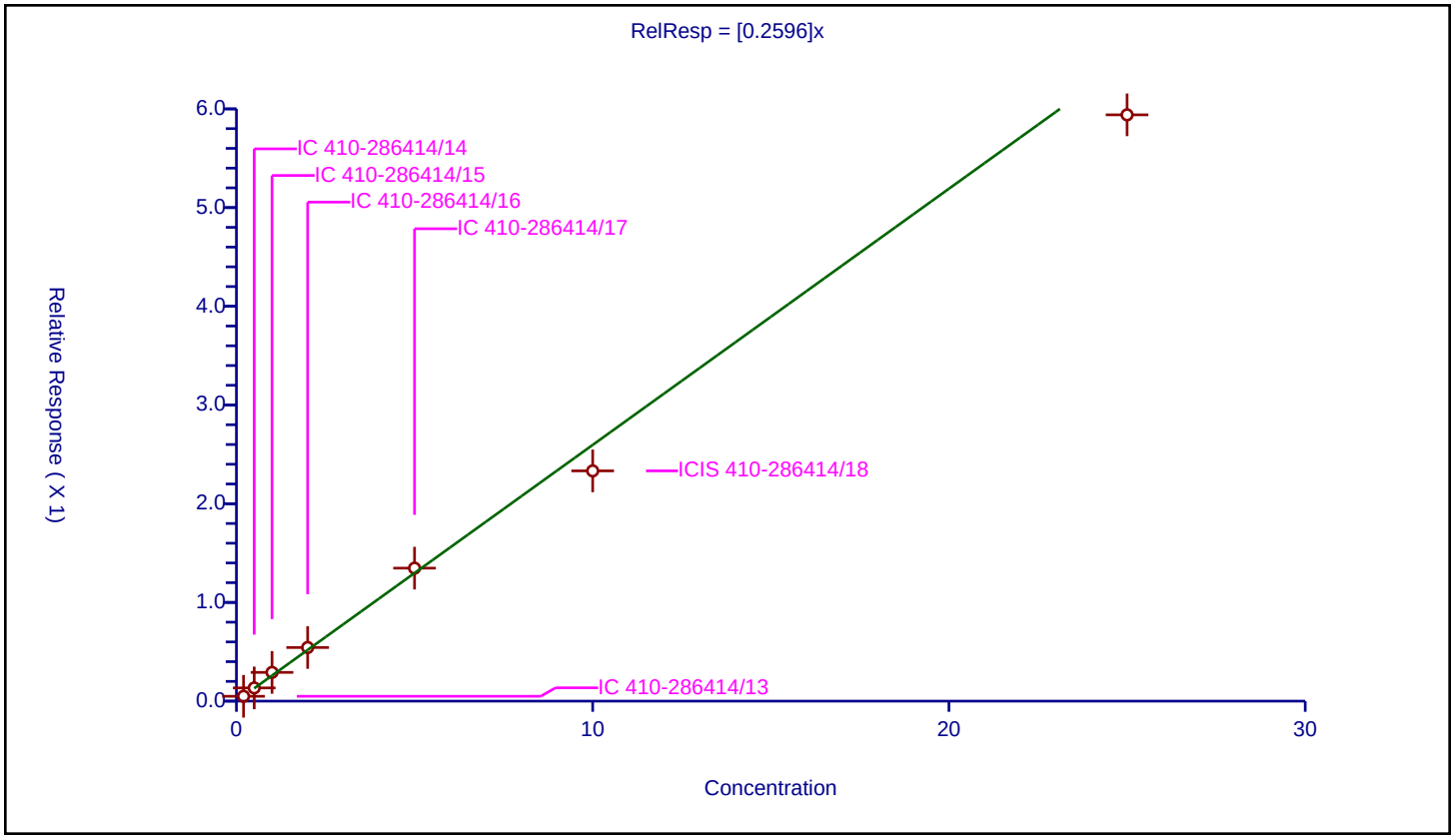
Curve Coefficients

Intercept:	0
Slope:	0.2596

Error Coefficients

Standard Error:	636000
Relative Standard Error:	8.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.049137	10.0	2204666.0	0.245683	Y
2	IC 410-286414/14	0.5	0.133966	10.0	2229222.0	0.267932	Y
3	IC 410-286414/15	1.0	0.29135	10.0	2229967.0	0.29135	Y
4	IC 410-286414/16	2.0	0.543272	10.0	2244586.0	0.271636	Y
5	IC 410-286414/17	5.0	1.347317	10.0	2296832.0	0.269463	Y
6	ICIS 410-286414/18	10.0	2.33265	10.0	2328270.0	0.233265	Y
7	IC 410-286414/19	25.0	5.939841	10.0	2388919.0	0.237594	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

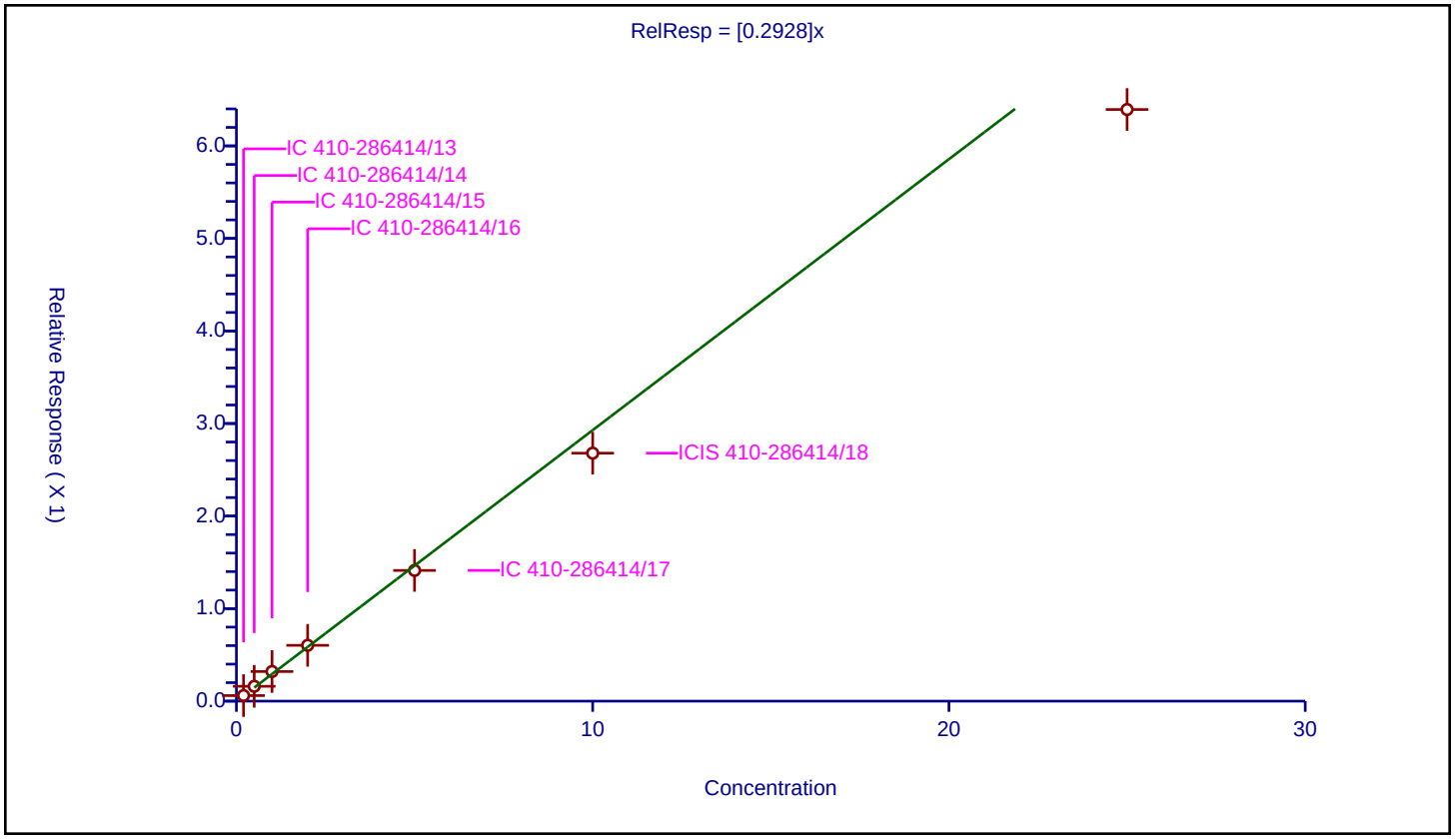
Curve Coefficients

Intercept:	0
Slope:	0.2928

Error Coefficients

Standard Error:	689000
Relative Standard Error:	8.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.060191	10.0	2204666.0	0.300953	Y
2	IC 410-286414/14	0.5	0.160428	10.0	2229222.0	0.320856	Y
3	IC 410-286414/15	1.0	0.32022	10.0	2229967.0	0.32022	Y
4	IC 410-286414/16	2.0	0.603082	10.0	2244586.0	0.301541	Y
5	IC 410-286414/17	5.0	1.412437	10.0	2296832.0	0.282487	Y
6	ICIS 410-286414/18	10.0	2.679784	10.0	2328270.0	0.267978	Y
7	IC 410-286414/19	25.0	6.39336	10.0	2388919.0	0.255734	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

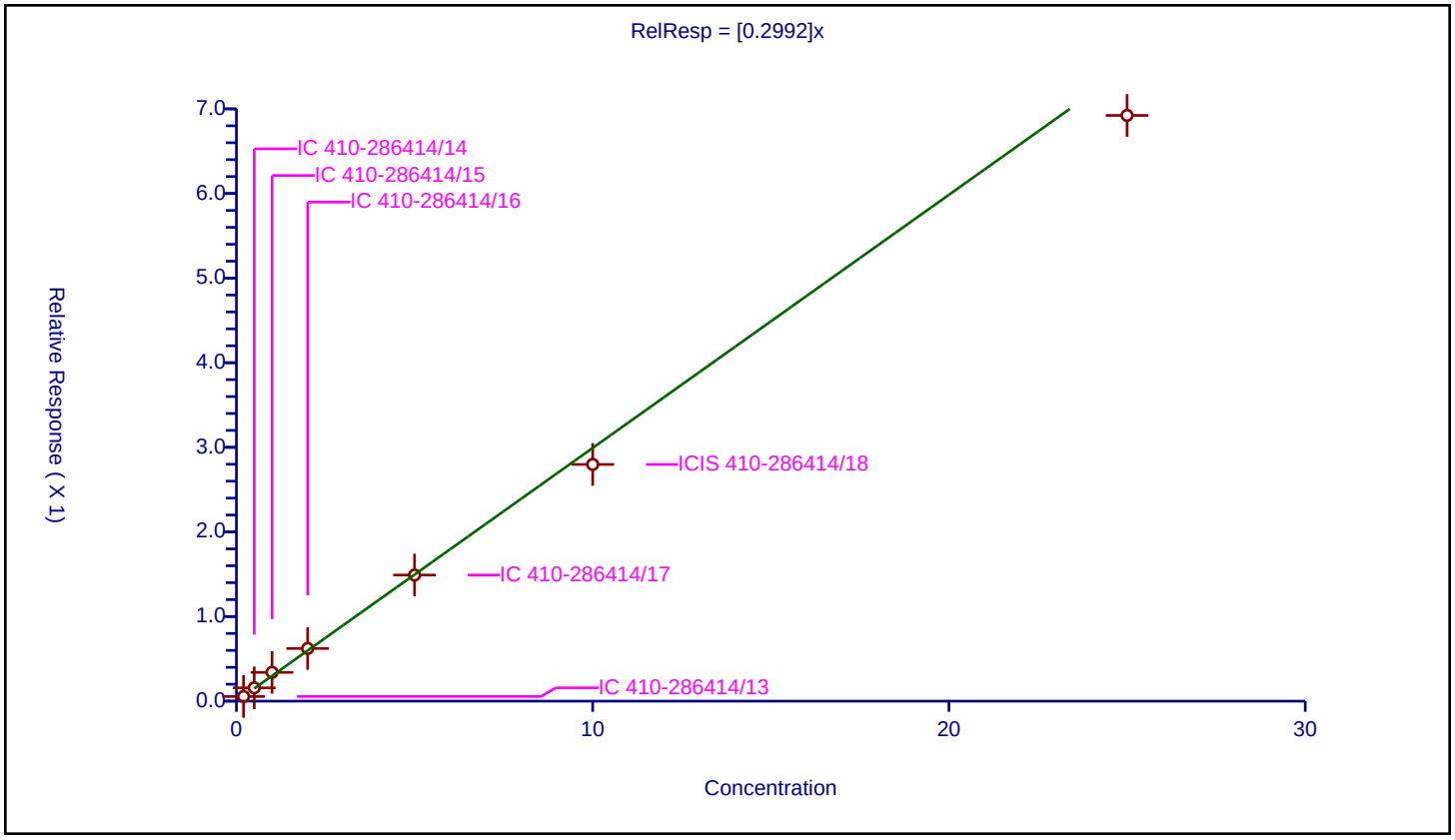
Curve Coefficients

Intercept:	0
Slope:	0.2992

Error Coefficients

Standard Error:	742000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.055002	10.0	2204666.0	0.275008	Y
2	IC 410-286414/14	0.5	0.156786	10.0	2229222.0	0.313571	Y
3	IC 410-286414/15	1.0	0.340036	10.0	2229967.0	0.340036	Y
4	IC 410-286414/16	2.0	0.622632	10.0	2244586.0	0.311316	Y
5	IC 410-286414/17	5.0	1.490453	10.0	2296832.0	0.298091	Y
6	ICIS 410-286414/18	10.0	2.797635	10.0	2328270.0	0.279764	Y
7	IC 410-286414/19	25.0	6.922734	10.0	2388919.0	0.276909	Y



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Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

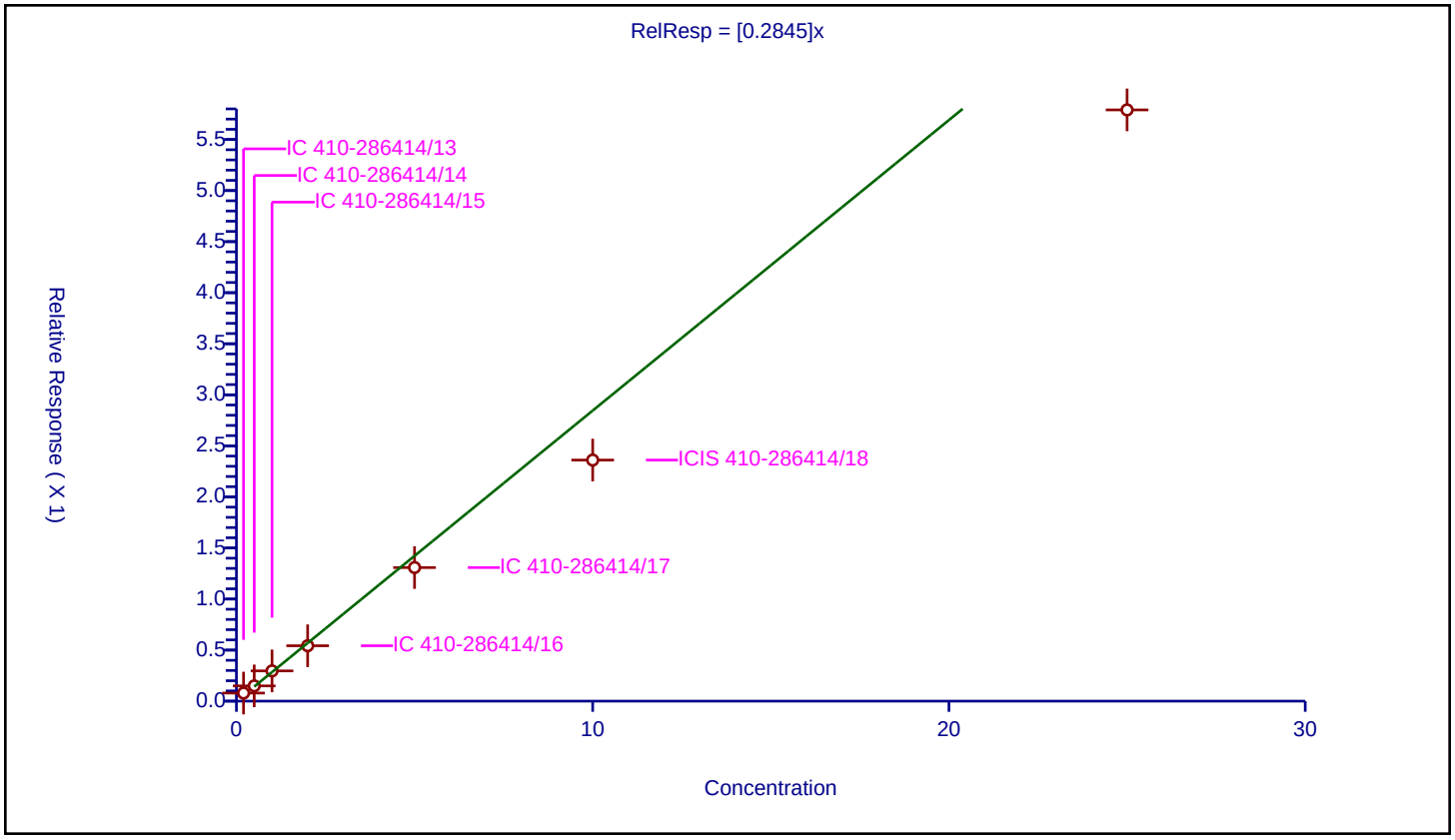
Curve Coefficients

Intercept:	0
Slope:	0.2845

Error Coefficients

Standard Error:	623000
Relative Standard Error:	19.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.931

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.079236	10.0	2204666.0	0.396182	Y
2	IC 410-286414/14	0.5	0.149339	10.0	2229222.0	0.298678	Y
3	IC 410-286414/15	1.0	0.296264	10.0	2229967.0	0.296264	Y
4	IC 410-286414/16	2.0	0.542314	10.0	2244586.0	0.271157	Y
5	IC 410-286414/17	5.0	1.308333	10.0	2296832.0	0.261667	Y
6	ICIS 410-286414/18	10.0	2.361011	10.0	2328270.0	0.236101	Y
7	IC 410-286414/19	25.0	5.79015	10.0	2388919.0	0.231606	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

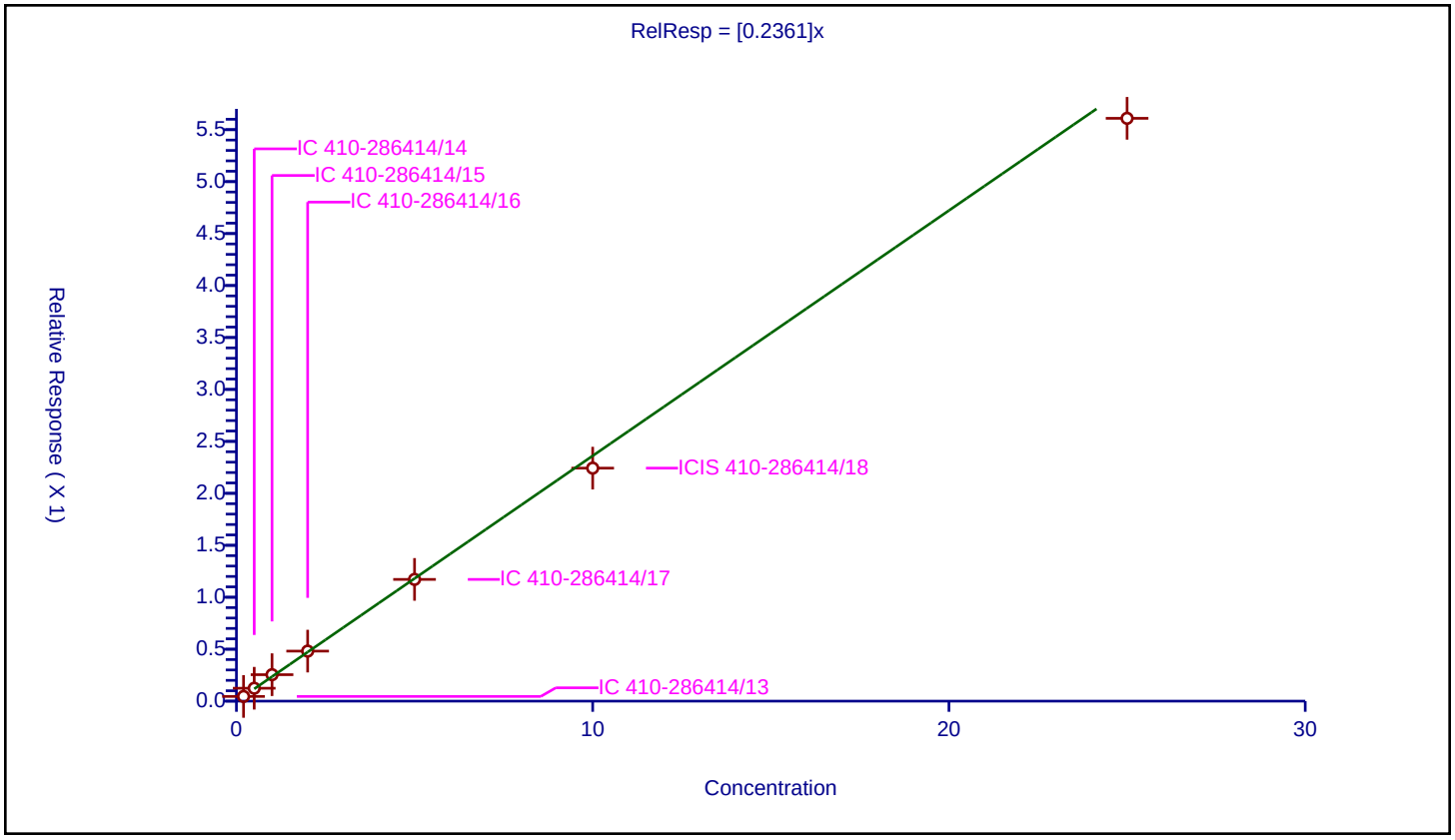
Curve Coefficients

Intercept:	0
Slope:	0.2361

Error Coefficients

Standard Error:	600000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.045222	10.0	2204666.0	0.226111	Y
2	IC 410-286414/14	0.5	0.124129	10.0	2229222.0	0.248257	Y
3	IC 410-286414/15	1.0	0.254609	10.0	2229967.0	0.254609	Y
4	IC 410-286414/16	2.0	0.481594	10.0	2244586.0	0.240797	Y
5	IC 410-286414/17	5.0	1.17157	10.0	2296832.0	0.234314	Y
6	ICIS 410-286414/18	10.0	2.242657	10.0	2328270.0	0.224266	Y
7	IC 410-286414/19	25.0	5.609307	10.0	2388919.0	0.224372	Y



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Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

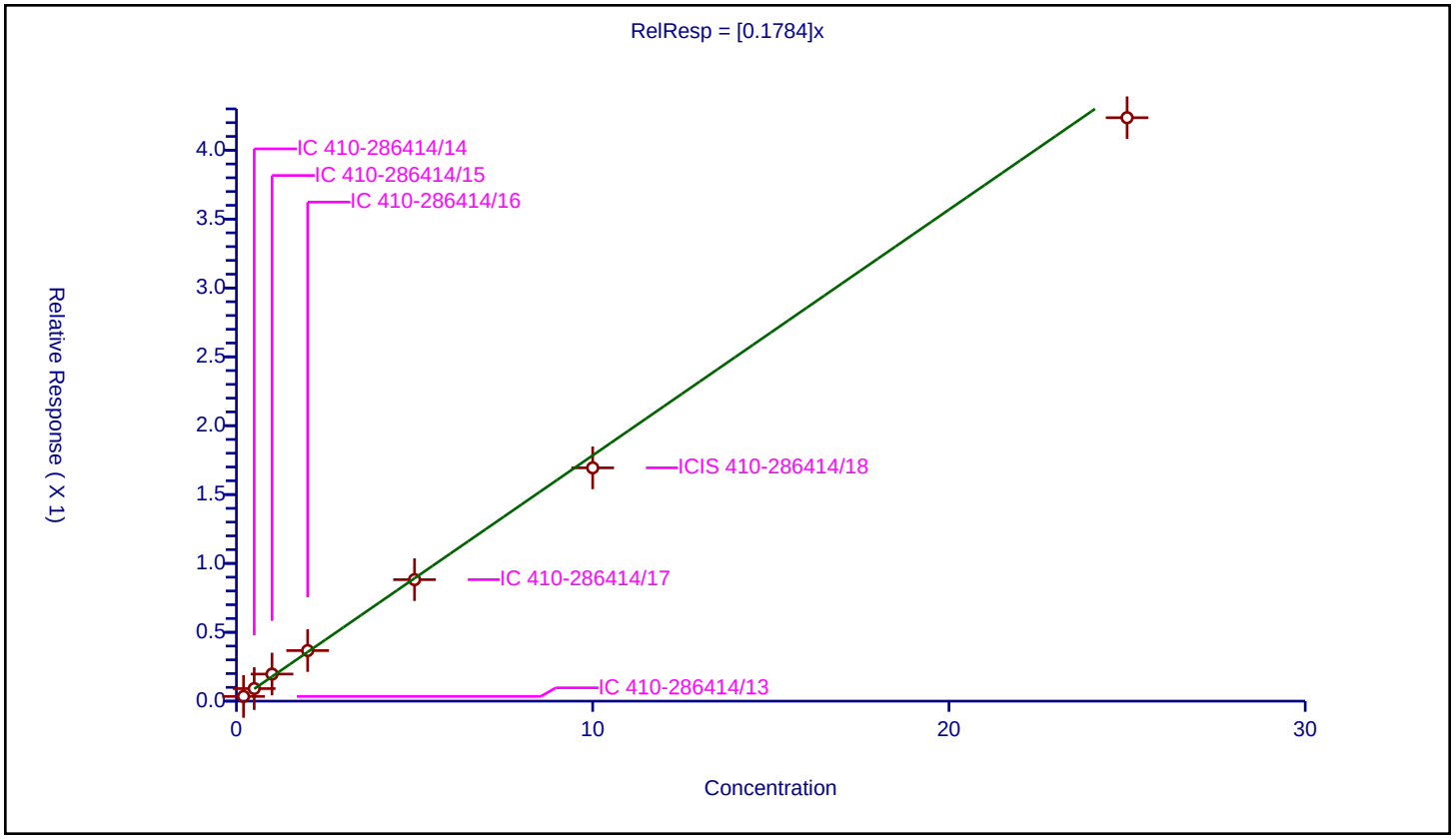
Curve Coefficients

Intercept:	0
Slope:	0.1784

Error Coefficients

Standard Error:	453000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.034227	10.0	2204666.0	0.171137	Y
2	IC 410-286414/14	0.5	0.091198	10.0	2229222.0	0.182395	Y
3	IC 410-286414/15	1.0	0.196546	10.0	2229967.0	0.196546	Y
4	IC 410-286414/16	2.0	0.367186	10.0	2244586.0	0.183593	Y
5	IC 410-286414/17	5.0	0.882145	10.0	2296832.0	0.176429	Y
6	ICIS 410-286414/18	10.0	1.693919	10.0	2328270.0	0.169392	Y
7	IC 410-286414/19	25.0	4.236016	10.0	2388919.0	0.169441	Y



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Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

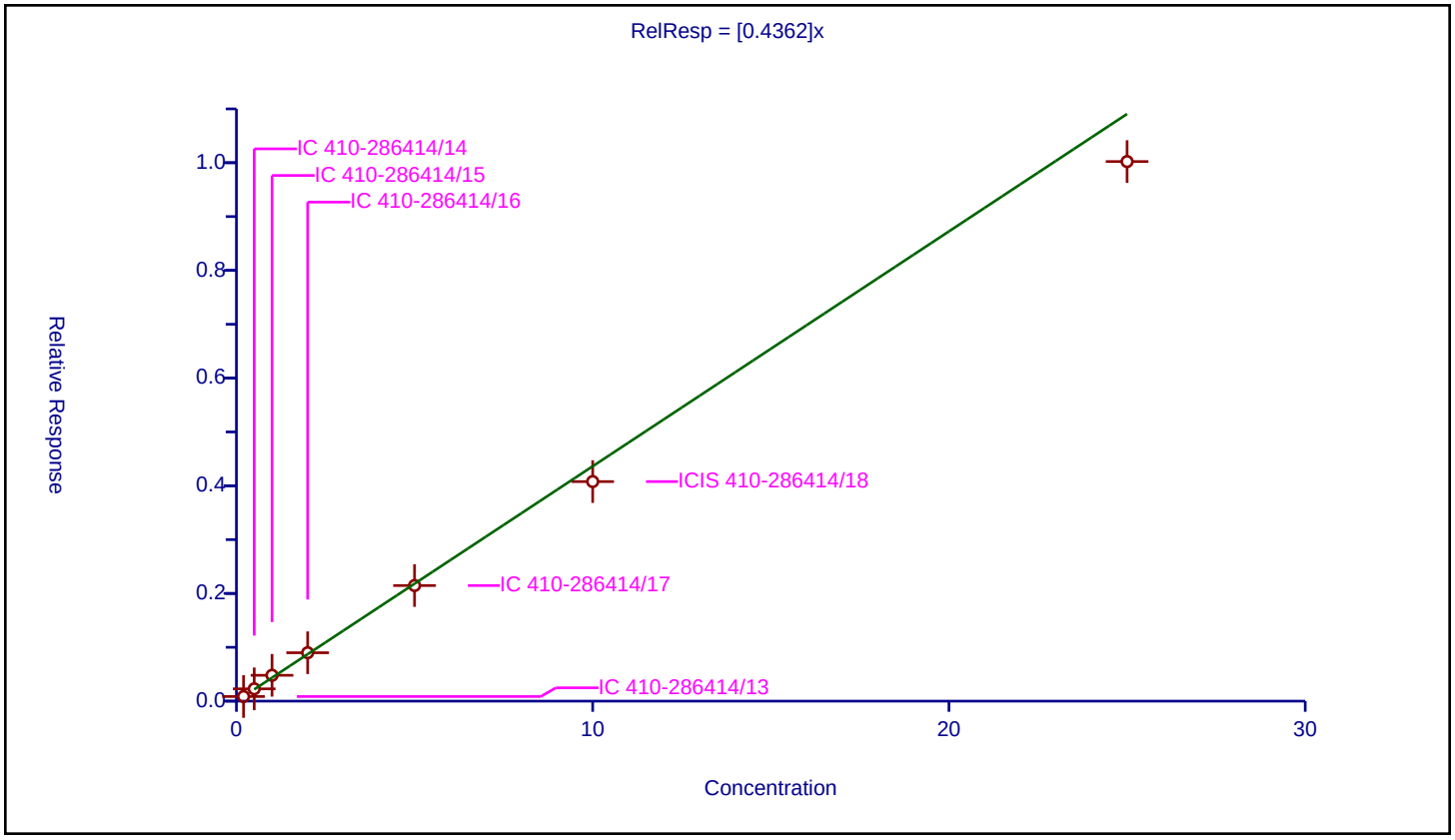
Curve Coefficients

Intercept:	0
Slope:	0.4362

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.085859	10.0	2204666.0	0.429294	Y
2	IC 410-286414/14	0.5	0.228429	10.0	2229222.0	0.456859	Y
3	IC 410-286414/15	1.0	0.479994	10.0	2229967.0	0.479994	Y
4	IC 410-286414/16	2.0	0.899017	10.0	2244586.0	0.449508	Y
5	IC 410-286414/17	5.0	2.147044	10.0	2296832.0	0.429409	Y
6	ICIS 410-286414/18	10.0	4.077714	10.0	2328270.0	0.407771	Y
7	IC 410-286414/19	25.0	10.021918	10.0	2388919.0	0.400877	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

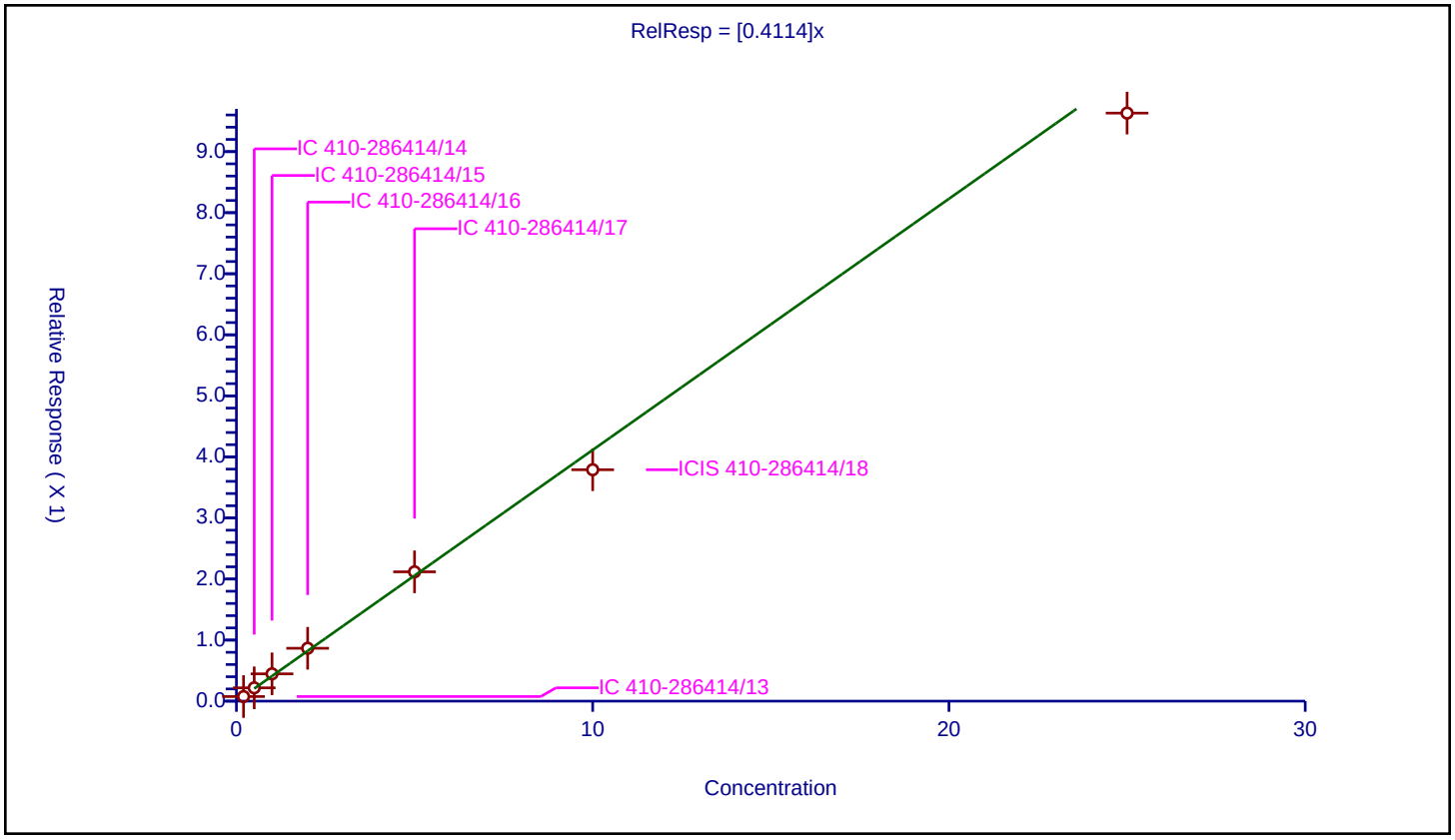
Curve Coefficients

Intercept:	0
Slope:	0.4114

Error Coefficients

Standard Error:	1030000
Relative Standard Error:	7.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.075064	10.0	2204666.0	0.375318	Y
2	IC 410-286414/14	0.5	0.217919	10.0	2229222.0	0.435838	Y
3	IC 410-286414/15	1.0	0.447545	10.0	2229967.0	0.447545	Y
4	IC 410-286414/16	2.0	0.866075	10.0	2244586.0	0.433038	Y
5	IC 410-286414/17	5.0	2.118057	10.0	2296832.0	0.423611	Y
6	ICIS 410-286414/18	10.0	3.789926	10.0	2328270.0	0.378993	Y
7	IC 410-286414/19	25.0	9.63113	10.0	2388919.0	0.385245	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

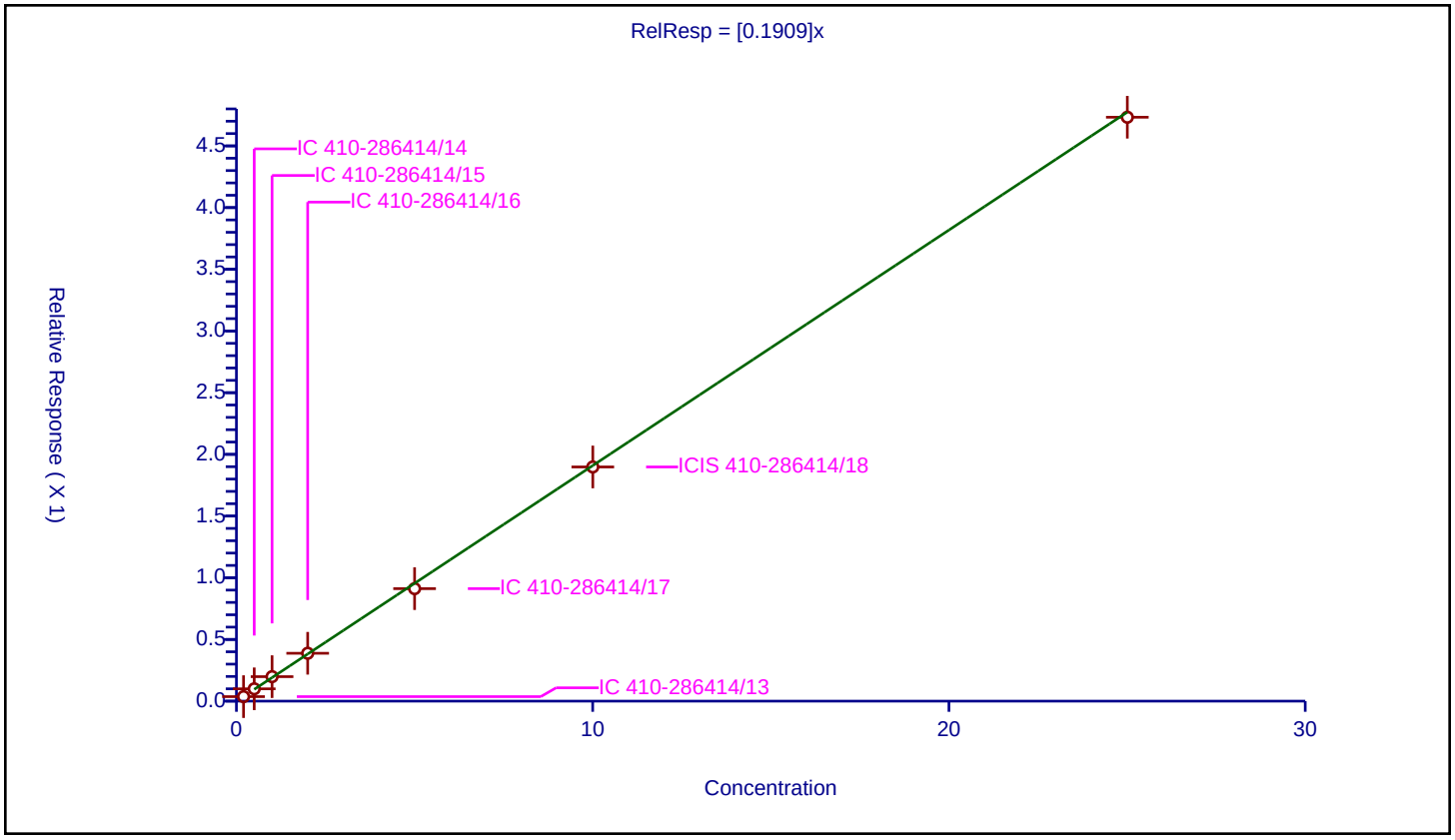
Curve Coefficients

Intercept:	0
Slope:	0.1909

Error Coefficients

Standard Error:	505000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.200057	0.036663	10.0	2204666.0	0.183263	Y
2	IC 410-286414/14	0.500143	0.099752	10.0	2229222.0	0.199448	Y
3	IC 410-286414/15	1.000286	0.198451	10.0	2229967.0	0.198395	Y
4	IC 410-286414/16	2.000572	0.387933	10.0	2244586.0	0.193911	Y
5	IC 410-286414/17	5.00143	0.911795	10.0	2296832.0	0.182307	Y
6	ICIS 410-286414/18	10.00286	1.89792	10.0	2328270.0	0.189738	Y
7	IC 410-286414/19	25.00715	4.732375	10.0	2388919.0	0.189241	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

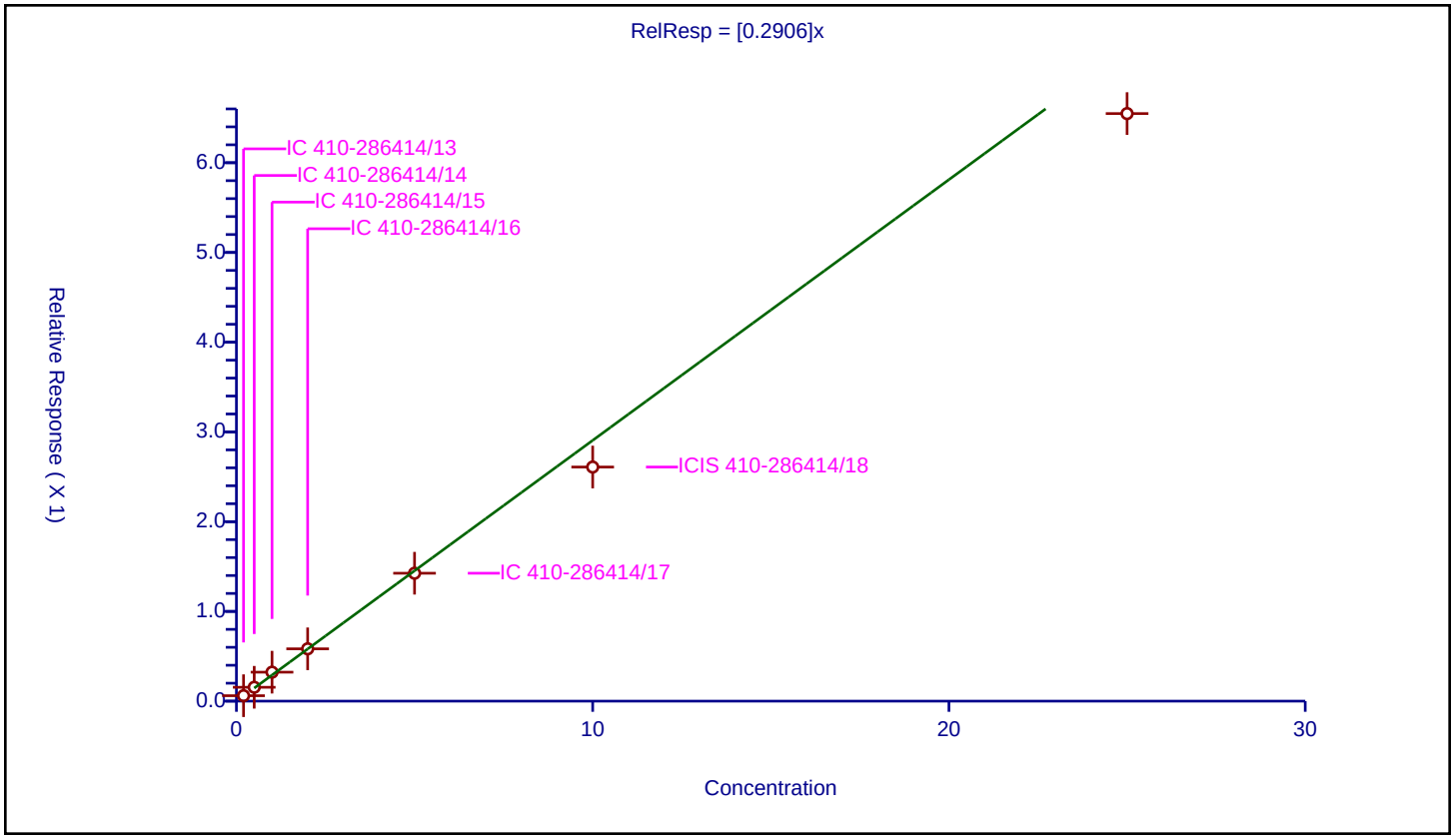
Curve Coefficients

Intercept:	0
Slope:	0.2906

Error Coefficients

Standard Error:	701000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.06064	10.0	2204666.0	0.303198	Y
2	IC 410-286414/14	0.5	0.154395	10.0	2229222.0	0.308789	Y
3	IC 410-286414/15	1.0	0.322677	10.0	2229967.0	0.322677	Y
4	IC 410-286414/16	2.0	0.582981	10.0	2244586.0	0.29149	Y
5	IC 410-286414/17	5.0	1.425555	10.0	2296832.0	0.285111	Y
6	ICIS 410-286414/18	10.0	2.608735	10.0	2328270.0	0.260874	Y
7	IC 410-286414/19	25.0	6.547719	10.0	2388919.0	0.261909	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

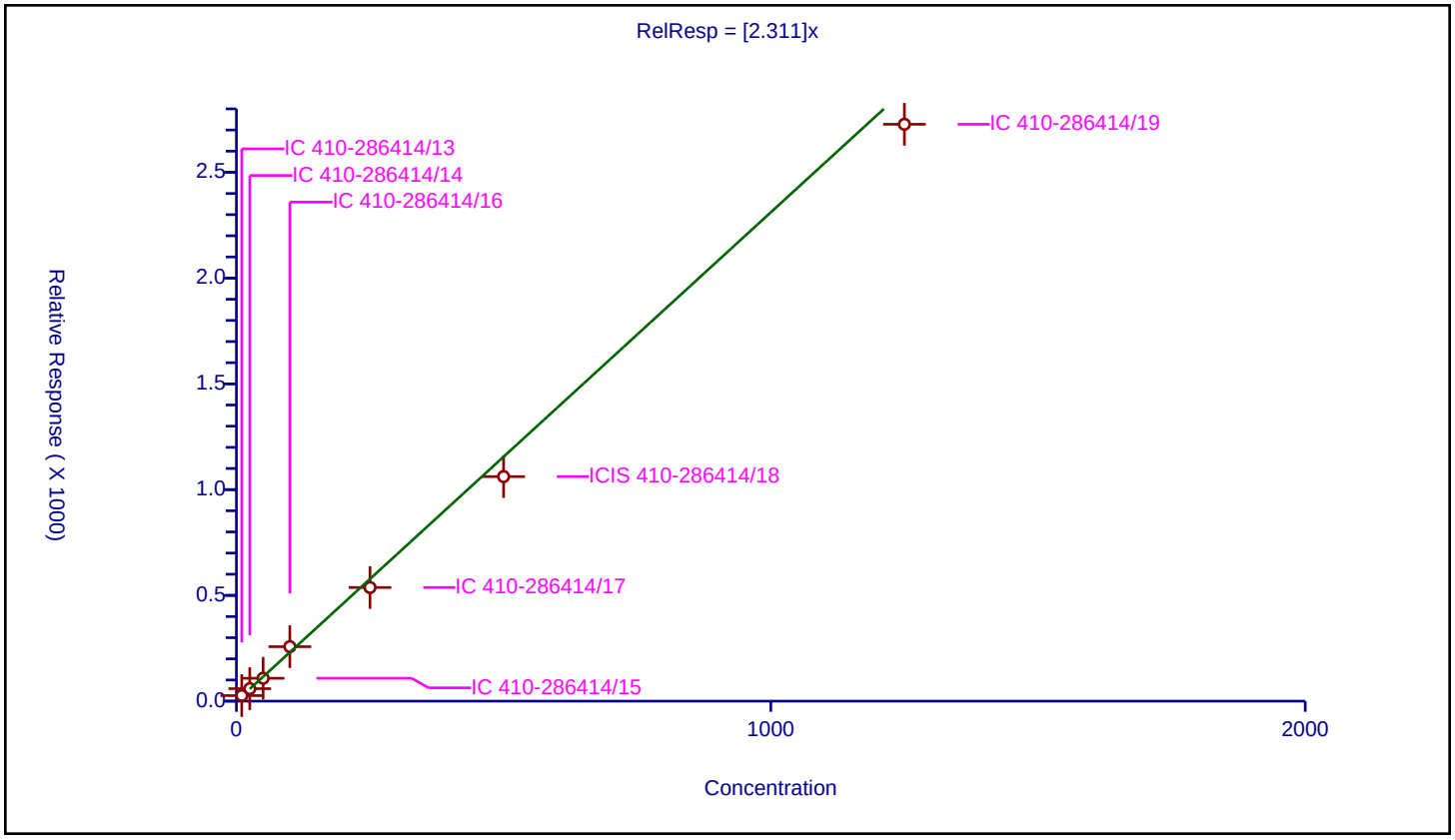
Curve Coefficients

Intercept:	0
Slope:	2.311

Error Coefficients

Standard Error:	3500000
Relative Standard Error:	9.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	9.999752	26.238174	50.0	133180.0	2.623882	Y
2	IC 410-286414/14	24.999381	58.937303	50.0	128635.0	2.357551	Y
3	IC 410-286414/15	49.998762	108.27169	50.0	136943.0	2.165487	Y
4	IC 410-286414/16	99.997523	257.608652	50.0	124917.0	2.57615	Y
5	IC 410-286414/17	249.993808	537.254881	50.0	141819.0	2.149073	Y
6	ICIS 410-286414/18	499.987617	1061.578737	50.0	142576.0	2.12321	Y
7	IC 410-286414/19	1249.969042	2727.157521	50.0	143695.0	2.18178	Y



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Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

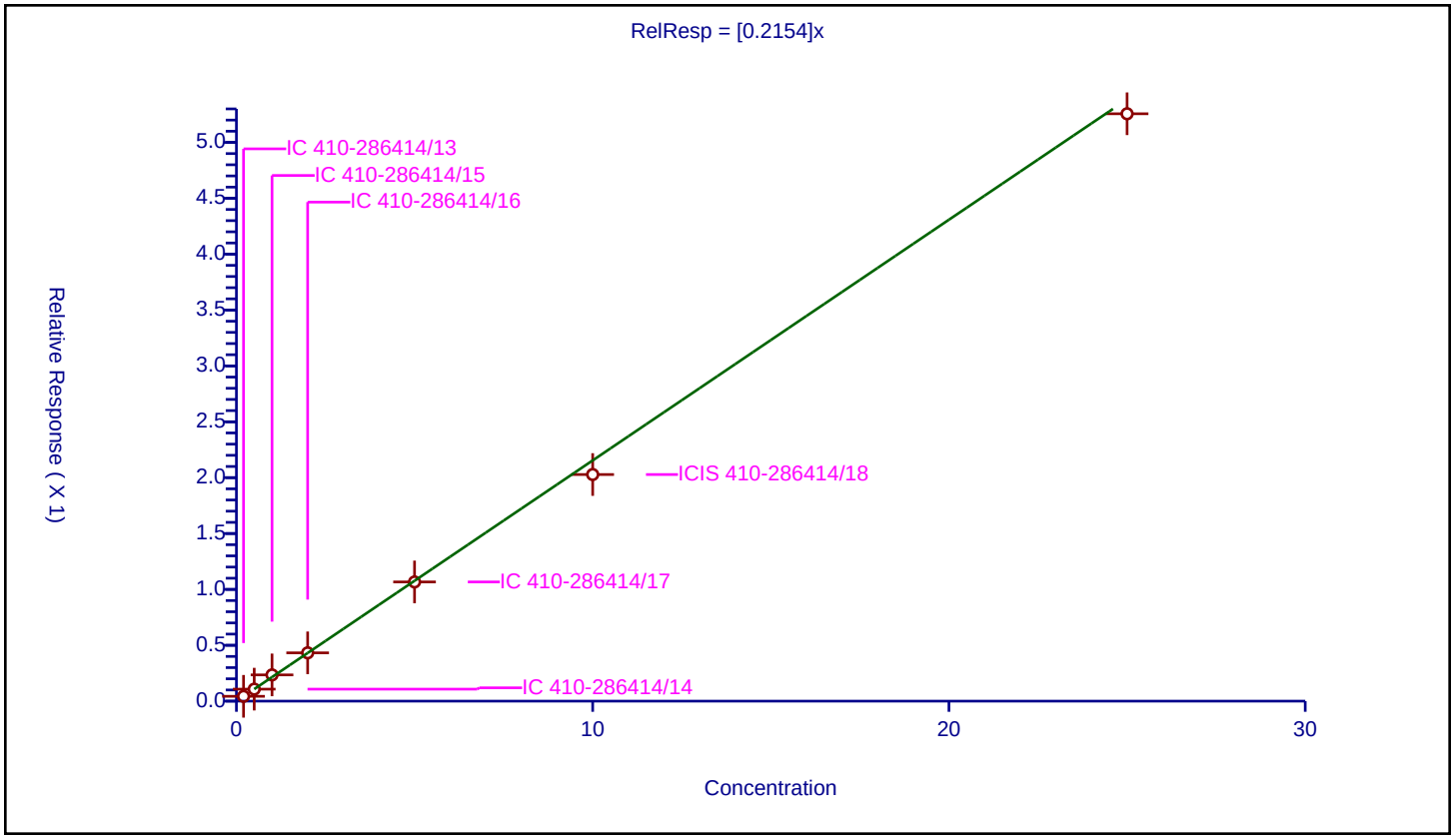
Curve Coefficients

Intercept:	0
Slope:	0.2154

Error Coefficients

Standard Error:	559000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.04314	10.0	2204666.0	0.215702	Y
2	IC 410-286414/14	0.5	0.107356	10.0	2229222.0	0.214712	Y
3	IC 410-286414/15	1.0	0.234963	10.0	2229967.0	0.234963	Y
4	IC 410-286414/16	2.0	0.432138	10.0	2244586.0	0.216069	Y
5	IC 410-286414/17	5.0	1.066743	10.0	2296832.0	0.213349	Y
6	ICIS 410-286414/18	10.0	2.027956	10.0	2328270.0	0.202796	Y
7	IC 410-286414/19	25.0	5.256298	10.0	2388919.0	0.210252	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

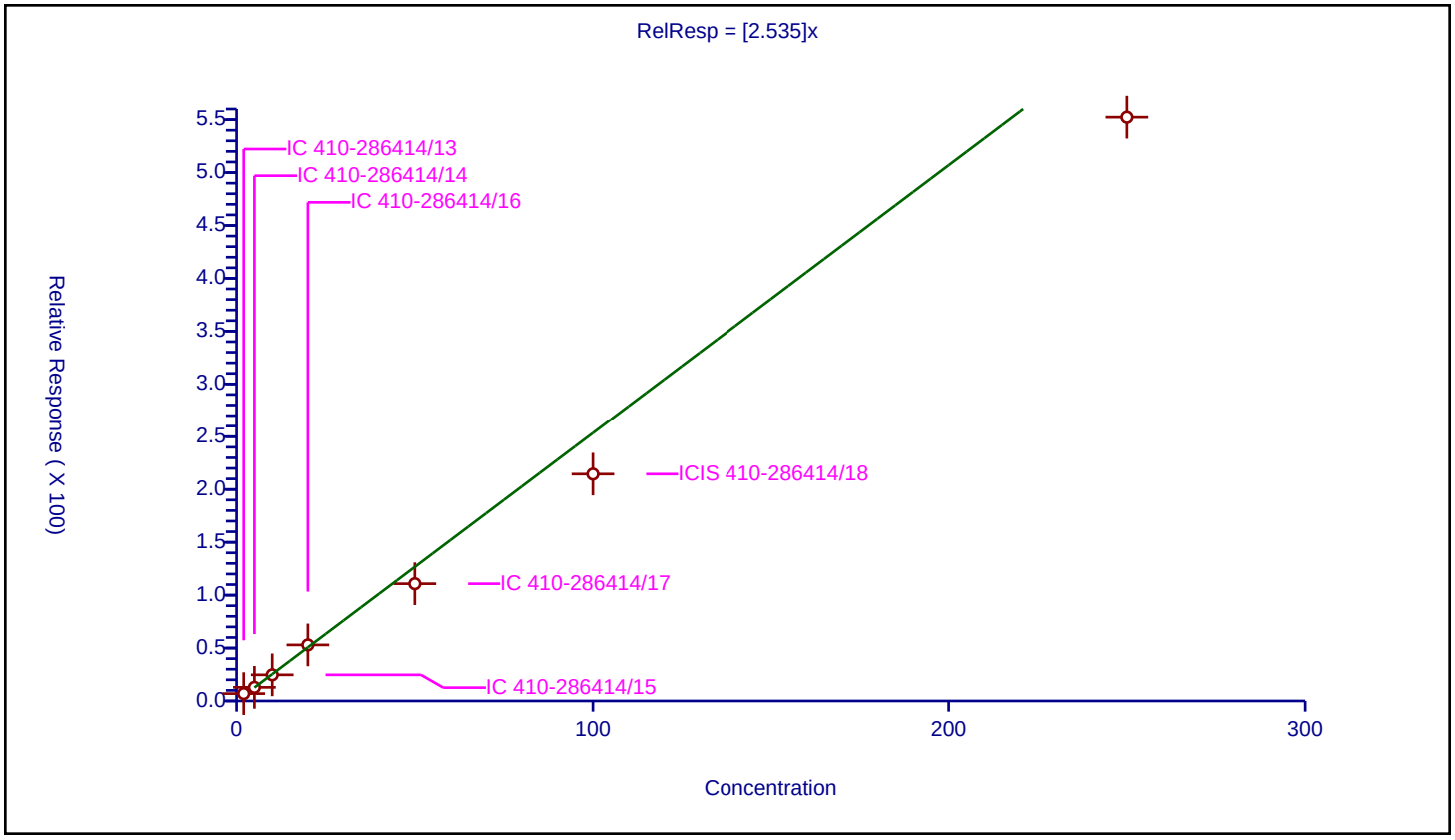
Curve Coefficients

Intercept:	0
Slope:	2.535

Error Coefficients

Standard Error:	709000
Relative Standard Error:	18.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.943

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	2.0	6.955624	50.0	133180.0	3.477812	Y
2	IC 410-286414/14	5.0	12.879854	50.0	128635.0	2.575971	Y
3	IC 410-286414/15	10.0	24.701153	50.0	136943.0	2.470115	Y
4	IC 410-286414/16	20.0	52.986383	50.0	124917.0	2.649319	Y
5	IC 410-286414/17	50.0	110.829296	50.0	141819.0	2.216586	Y
6	ICIS 410-286414/18	100.0	214.545225	50.0	142576.0	2.145452	Y
7	IC 410-286414/19	250.0	552.308709	50.0	143695.0	2.209235	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

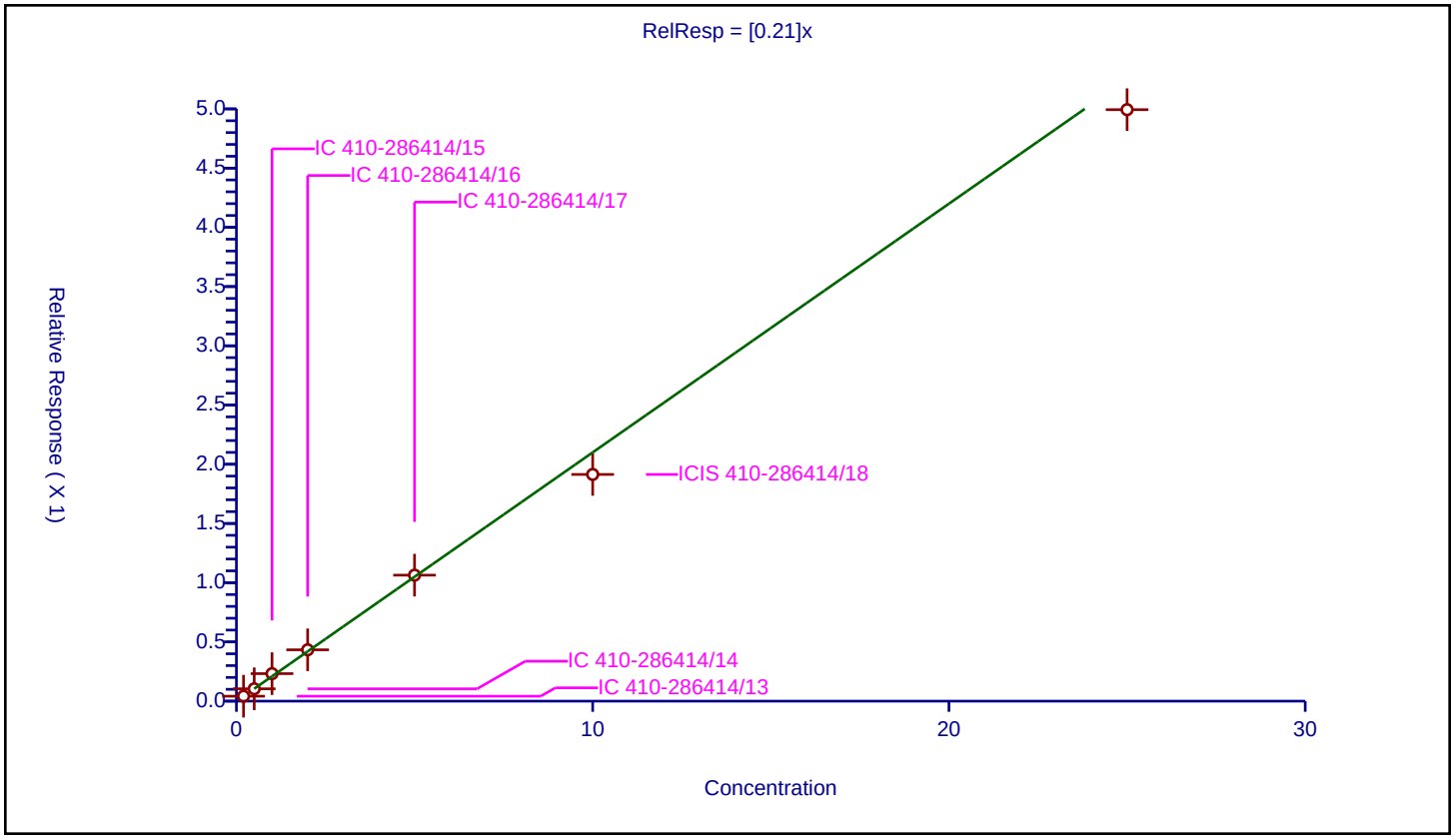
Curve Coefficients

Intercept:	0
Slope:	0.21

Error Coefficients

Standard Error:	531000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.041725	10.0	2204666.0	0.208626	Y
2	IC 410-286414/14	0.5	0.104189	10.0	2229222.0	0.208378	Y
3	IC 410-286414/15	1.0	0.232219	10.0	2229967.0	0.232219	Y
4	IC 410-286414/16	2.0	0.433496	10.0	2244586.0	0.216748	Y
5	IC 410-286414/17	5.0	1.063635	10.0	2296832.0	0.212727	Y
6	ICIS 410-286414/18	10.0	1.913953	10.0	2328270.0	0.191395	Y
7	IC 410-286414/19	25.0	4.993464	10.0	2388919.0	0.199739	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

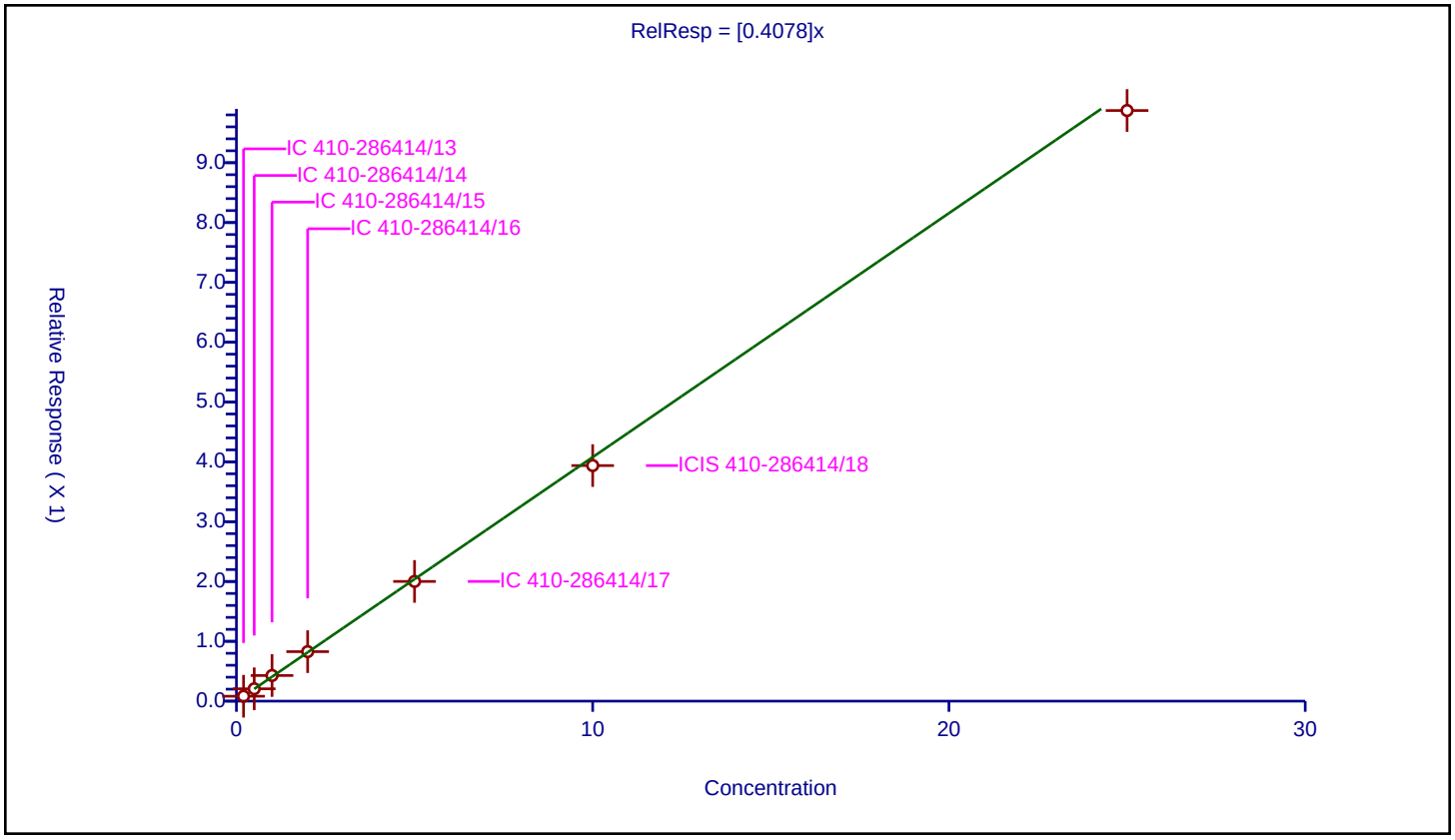
Curve Coefficients

Intercept:	0
Slope:	0.4078

Error Coefficients

Standard Error:	1050000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.082121	10.0	2204666.0	0.410606	Y
2	IC 410-286414/14	0.5	0.206534	10.0	2229222.0	0.413068	Y
3	IC 410-286414/15	1.0	0.428419	10.0	2229967.0	0.428419	Y
4	IC 410-286414/16	2.0	0.8276	10.0	2244586.0	0.4138	Y
5	IC 410-286414/17	5.0	2.001034	10.0	2296832.0	0.400207	Y
6	ICIS 410-286414/18	10.0	3.937705	10.0	2328270.0	0.39377	Y
7	IC 410-286414/19	25.0	9.87262	10.0	2388919.0	0.394905	Y



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Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

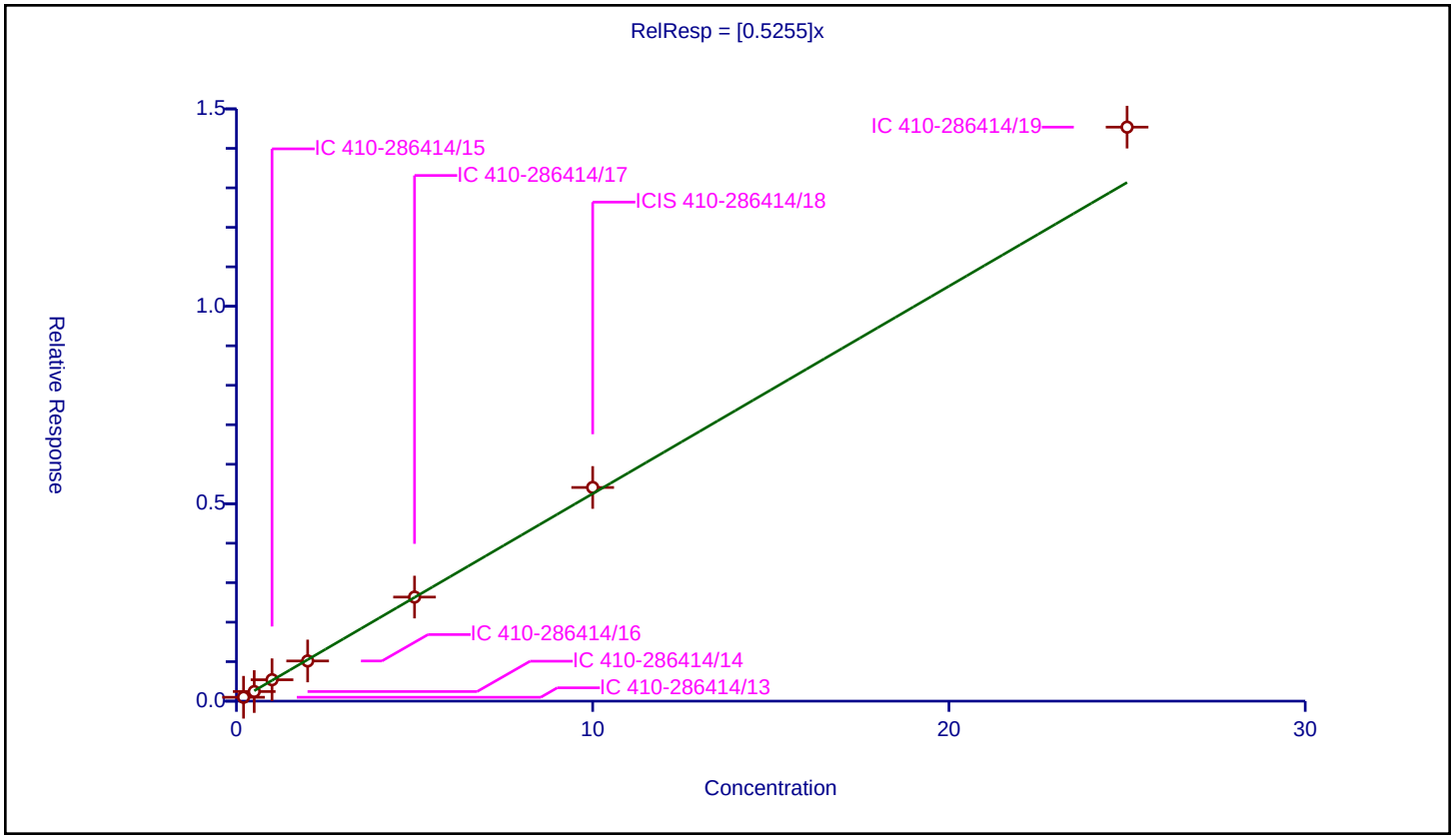
Curve Coefficients

Intercept:	0
Slope:	0.5255

Error Coefficients

Standard Error:	1530000
Relative Standard Error:	6.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.098373	10.0	2204666.0	0.491866	Y
2	IC 410-286414/14	0.5	0.242932	10.0	2229222.0	0.485865	Y
3	IC 410-286414/15	1.0	0.541752	10.0	2229967.0	0.541752	Y
4	IC 410-286414/16	2.0	1.01788	10.0	2244586.0	0.50894	Y
5	IC 410-286414/17	5.0	2.636022	10.0	2296832.0	0.527204	Y
6	ICIS 410-286414/18	10.0	5.411374	10.0	2328270.0	0.541137	Y
7	IC 410-286414/19	25.0	14.53768	10.0	2388919.0	0.581507	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

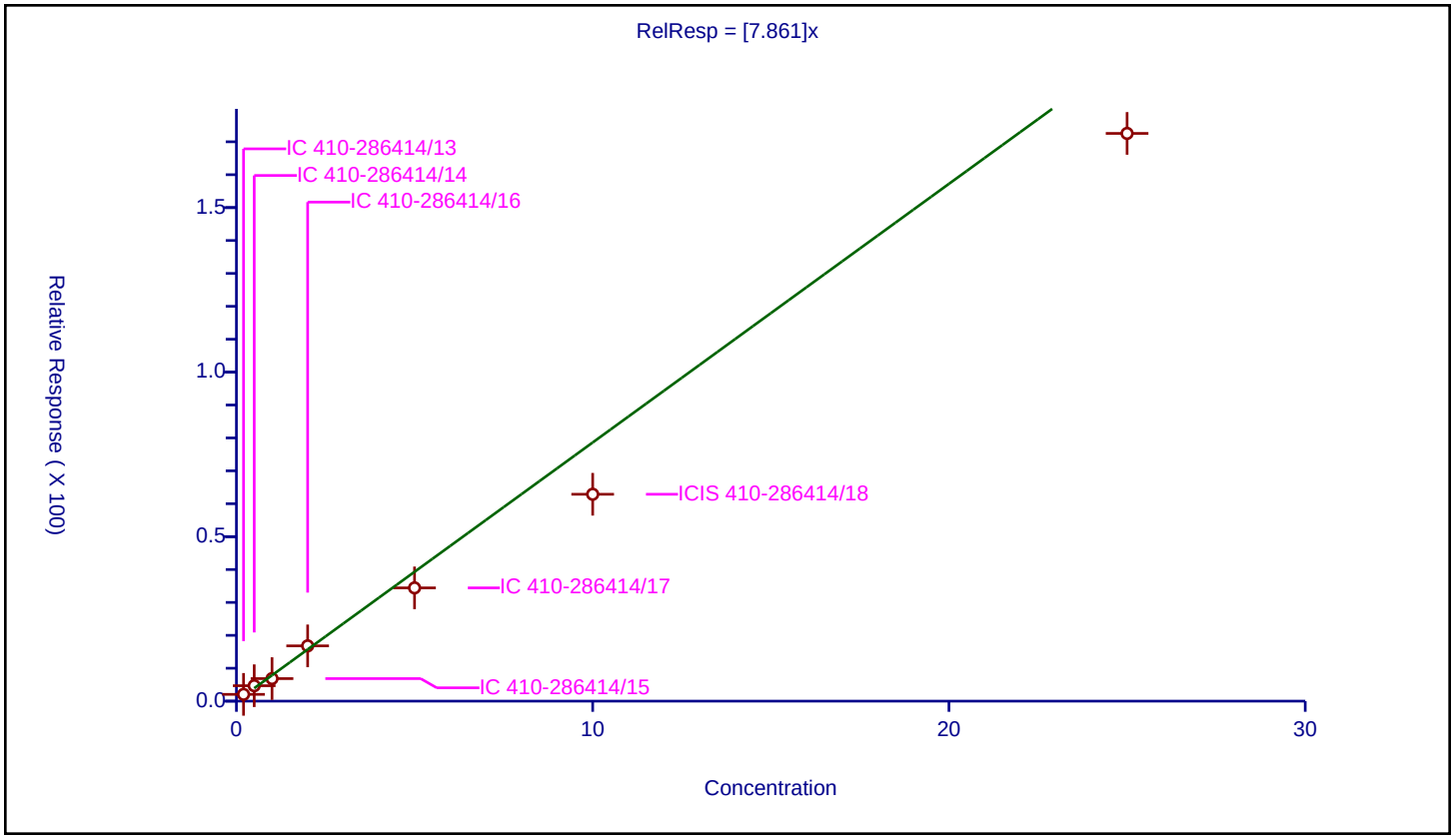
Curve Coefficients

Intercept:	0
Slope:	7.861

Error Coefficients

Standard Error:	220000
Relative Standard Error:	19.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.935

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	2.062622	50.0	133180.0	10.31311	Y
2	IC 410-286414/14	0.5	4.691569	50.0	128635.0	9.383138	Y
3	IC 410-286414/15	1.0	6.854312	50.0	136943.0	6.854312	Y
4	IC 410-286414/16	2.0	16.803958	50.0	124917.0	8.401979	Y
5	IC 410-286414/17	5.0	34.422398	50.0	141819.0	6.88448	Y
6	ICIS 410-286414/18	10.0	62.876992	50.0	142576.0	6.287699	Y
7	IC 410-286414/19	25.0	172.542538	50.0	143695.0	6.901702	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

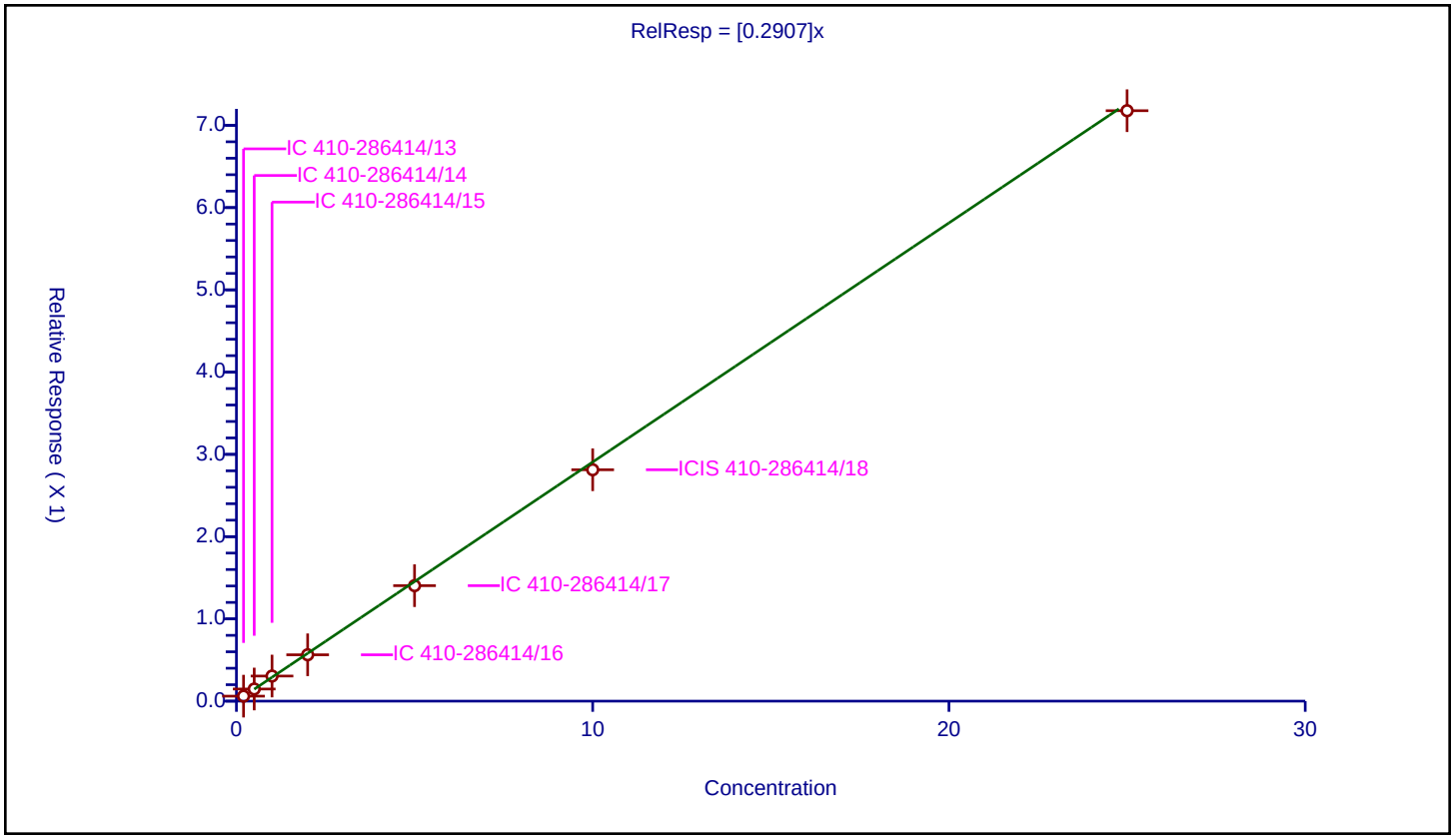
Curve Coefficients

Intercept:	0
Slope:	0.2907

Error Coefficients

Standard Error:	763000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.060649	10.0	2204666.0	0.303243	Y
2	IC 410-286414/14	0.5	0.14763	10.0	2229222.0	0.29526	Y
3	IC 410-286414/15	1.0	0.305283	10.0	2229967.0	0.305283	Y
4	IC 410-286414/16	2.0	0.563641	10.0	2244586.0	0.28182	Y
5	IC 410-286414/17	5.0	1.403794	10.0	2296832.0	0.280759	Y
6	ICIS 410-286414/18	10.0	2.813063	10.0	2328270.0	0.281306	Y
7	IC 410-286414/19	25.0	7.177849	10.0	2388919.0	0.287114	Y



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Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

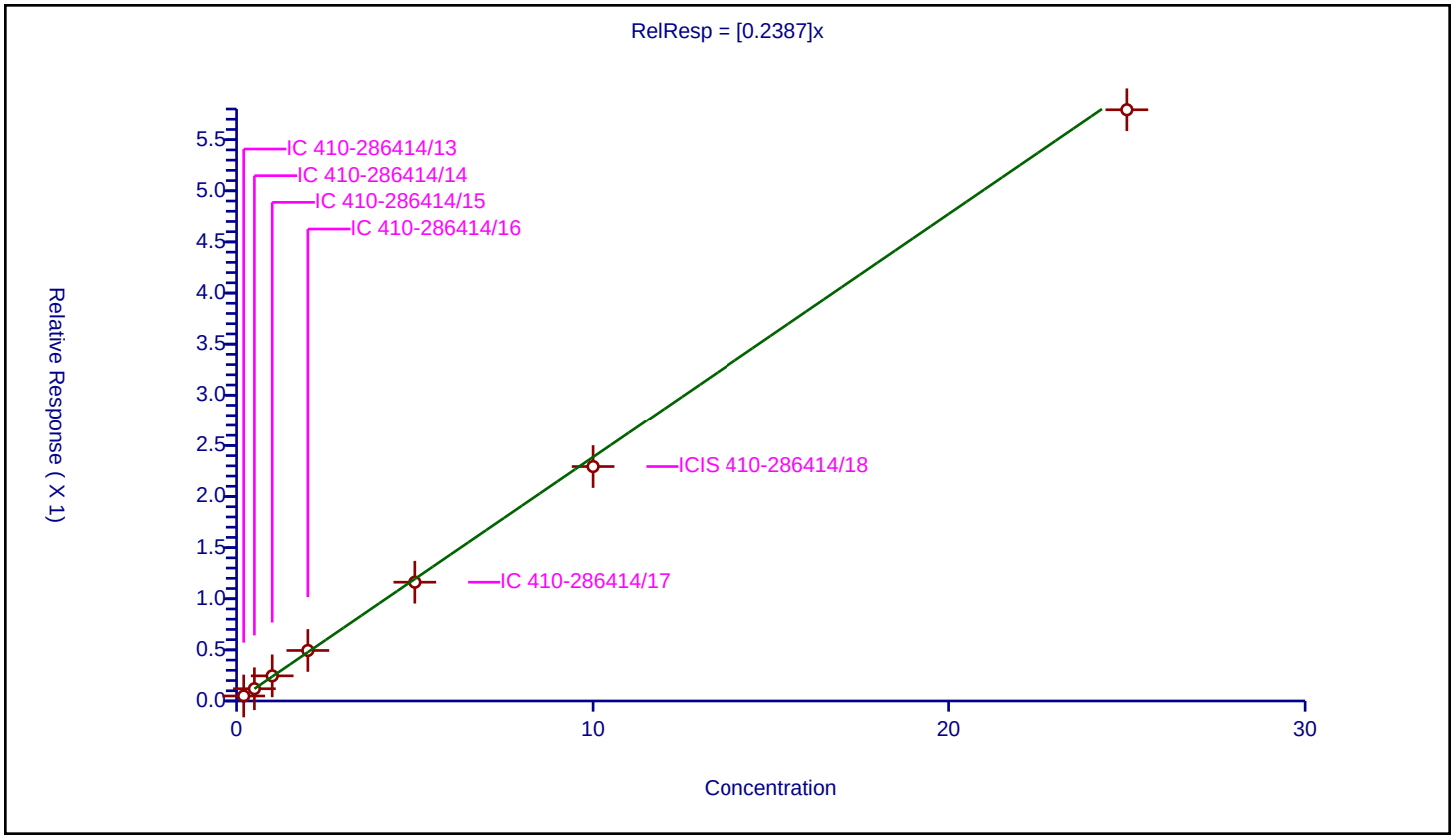
Curve Coefficients

Intercept:	0
Slope:	0.2387

Error Coefficients

Standard Error:	617000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.048905	10.0	2204666.0	0.244527	Y
2	IC 410-286414/14	0.5	0.119934	10.0	2229222.0	0.239868	Y
3	IC 410-286414/15	1.0	0.245766	10.0	2229967.0	0.245766	Y
4	IC 410-286414/16	2.0	0.494189	10.0	2244586.0	0.247095	Y
5	IC 410-286414/17	5.0	1.16177	10.0	2296832.0	0.232354	Y
6	ICIS 410-286414/18	10.0	2.293432	10.0	2328270.0	0.229343	Y
7	IC 410-286414/19	25.0	5.7927	10.0	2388919.0	0.231708	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

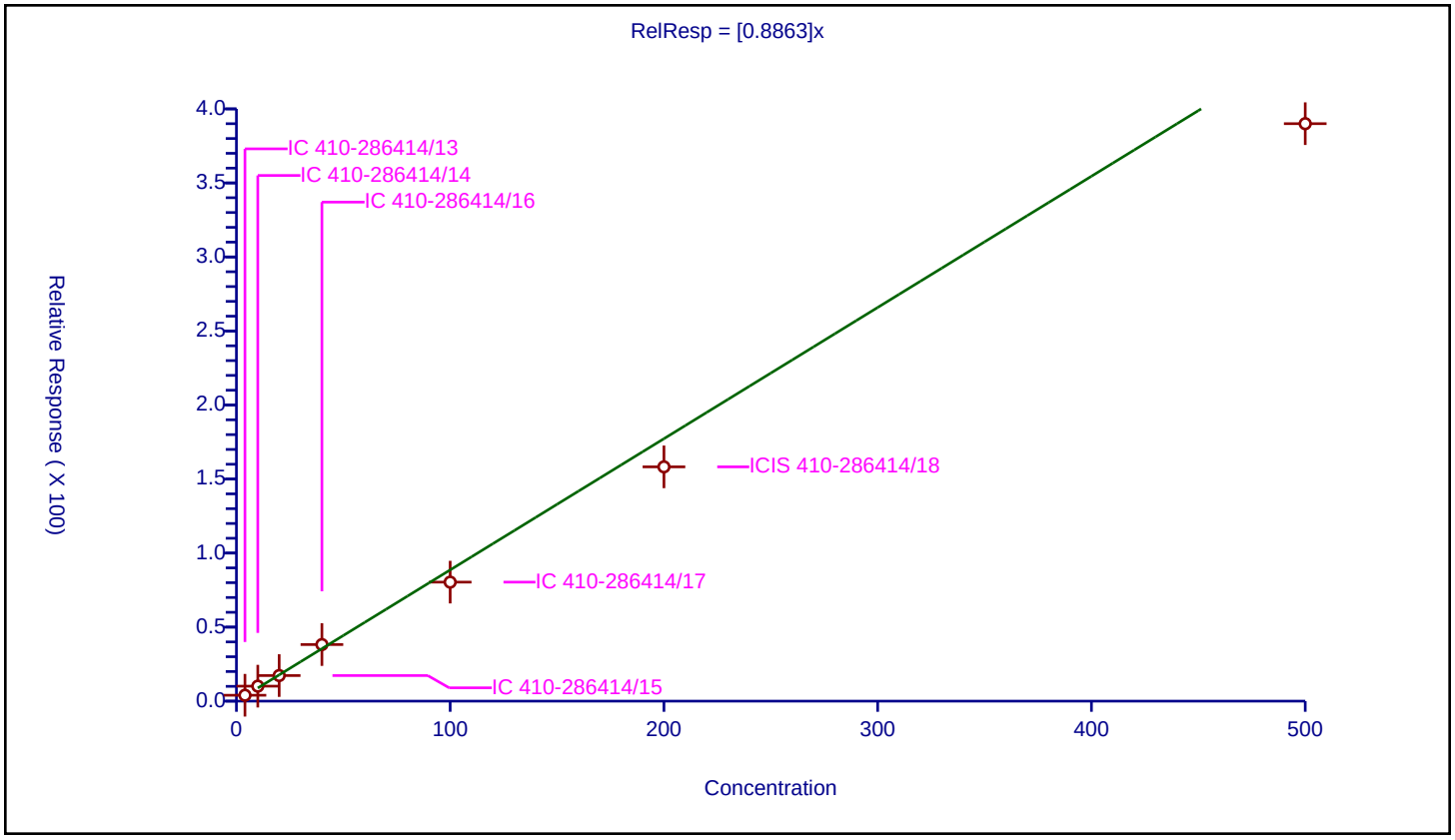
Curve Coefficients

Intercept:	0
Slope:	0.8863

Error Coefficients

Standard Error:	504000
Relative Standard Error:	11.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	4.0	3.990089	50.0	133180.0	0.997522	Y
2	IC 410-286414/14	10.0	10.122828	50.0	128635.0	1.012283	Y
3	IC 410-286414/15	20.0	17.278722	50.0	136943.0	0.863936	Y
4	IC 410-286414/16	40.0	38.20817	50.0	124917.0	0.955204	Y
5	IC 410-286414/17	100.0	80.376748	50.0	141819.0	0.803767	Y
6	ICIS 410-286414/18	200.0	158.235608	50.0	142576.0	0.791178	Y
7	IC 410-286414/19	500.0	390.008003	50.0	143695.0	0.780016	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

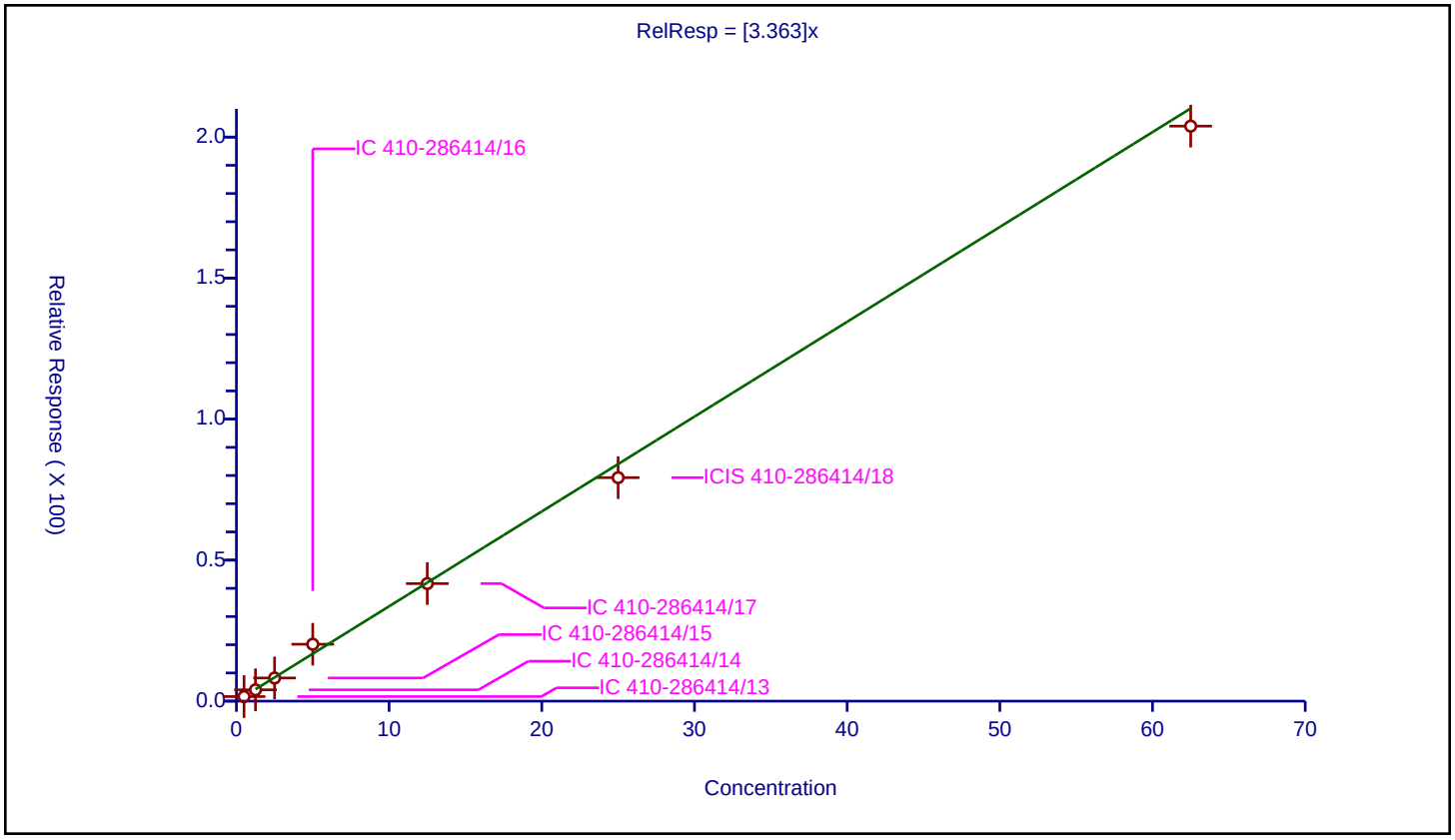
Curve Coefficients

Intercept:	0
Slope:	3.363

Error Coefficients

Standard Error:	262000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.5	1.62149	50.0	133180.0	3.242979	Y
2	IC 410-286414/14	1.25	4.015237	50.0	128635.0	3.21219	Y
3	IC 410-286414/15	2.5	8.207064	50.0	136943.0	3.282826	Y
4	IC 410-286414/16	5.0	20.173795	50.0	124917.0	4.034759	Y
5	IC 410-286414/17	12.5	41.67742	50.0	141819.0	3.334194	Y
6	ICIS 410-286414/18	25.0	79.244754	50.0	142576.0	3.16979	Y
7	IC 410-286414/19	62.5	203.884965	50.0	143695.0	3.262159	Y



Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

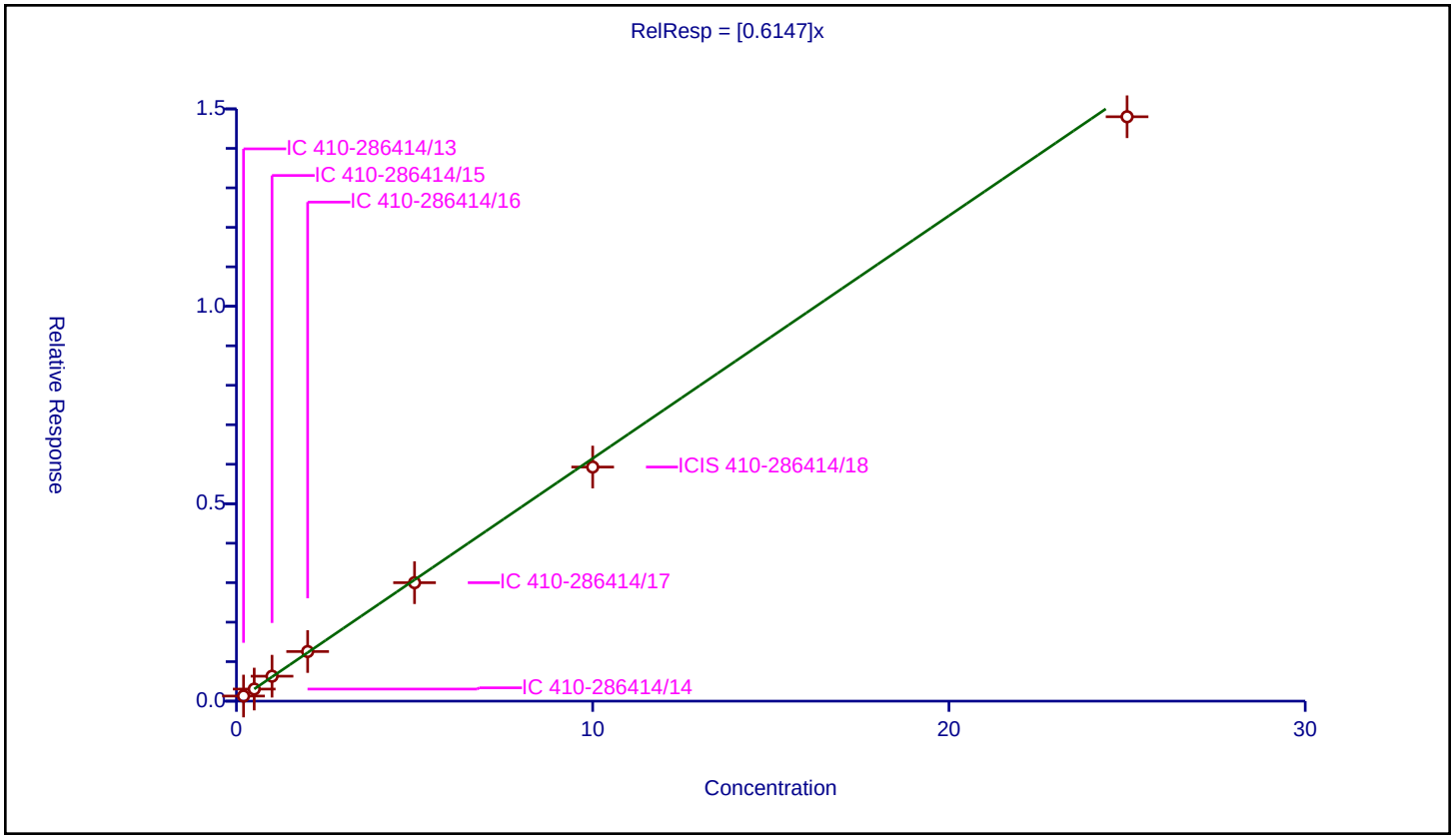
Curve Coefficients

Intercept:	0
Slope:	0.6147

Error Coefficients

Standard Error:	1580000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.129235	10.0	2204666.0	0.646175	Y
2	IC 410-286414/14	0.5	0.305941	10.0	2229222.0	0.611882	Y
3	IC 410-286414/15	1.0	0.631731	10.0	2229967.0	0.631731	Y
4	IC 410-286414/16	2.0	1.256125	10.0	2244586.0	0.628062	Y
5	IC 410-286414/17	5.0	3.000137	10.0	2296832.0	0.600027	Y
6	ICIS 410-286414/18	10.0	5.928947	10.0	2328270.0	0.592895	Y
7	IC 410-286414/19	25.0	14.801247	10.0	2388919.0	0.59205	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

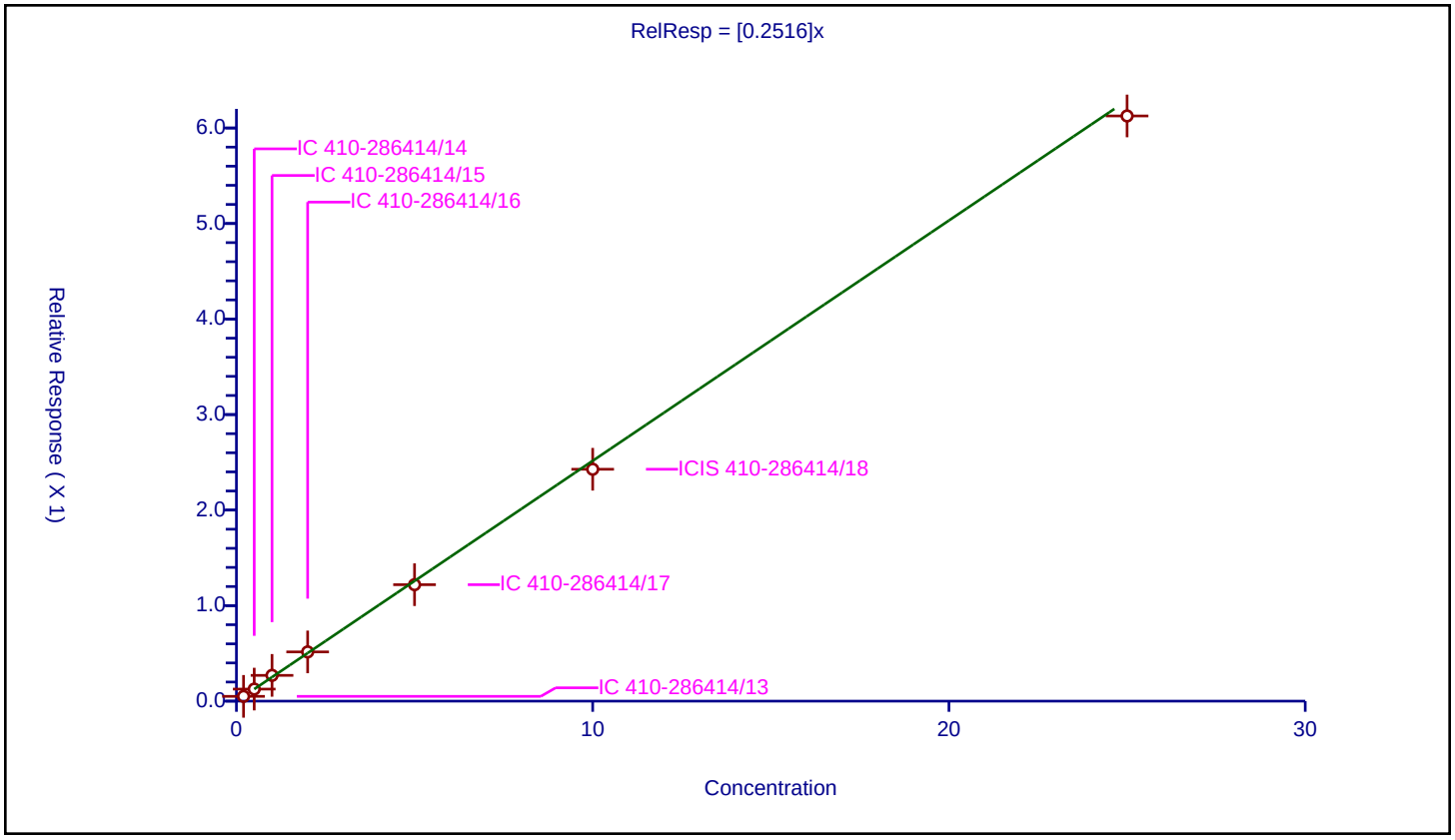
Curve Coefficients

Intercept:	0
Slope:	0.2516

Error Coefficients

Standard Error:	653000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.049917	10.0	2204666.0	0.249584	Y
2	IC 410-286414/14	0.5	0.126214	10.0	2229222.0	0.252429	Y
3	IC 410-286414/15	1.0	0.269807	10.0	2229967.0	0.269807	Y
4	IC 410-286414/16	2.0	0.515338	10.0	2244586.0	0.257669	Y
5	IC 410-286414/17	5.0	1.219088	10.0	2296832.0	0.243818	Y
6	ICIS 410-286414/18	10.0	2.427592	10.0	2328270.0	0.242759	Y
7	IC 410-286414/19	25.0	6.126009	10.0	2388919.0	0.24504	Y



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Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

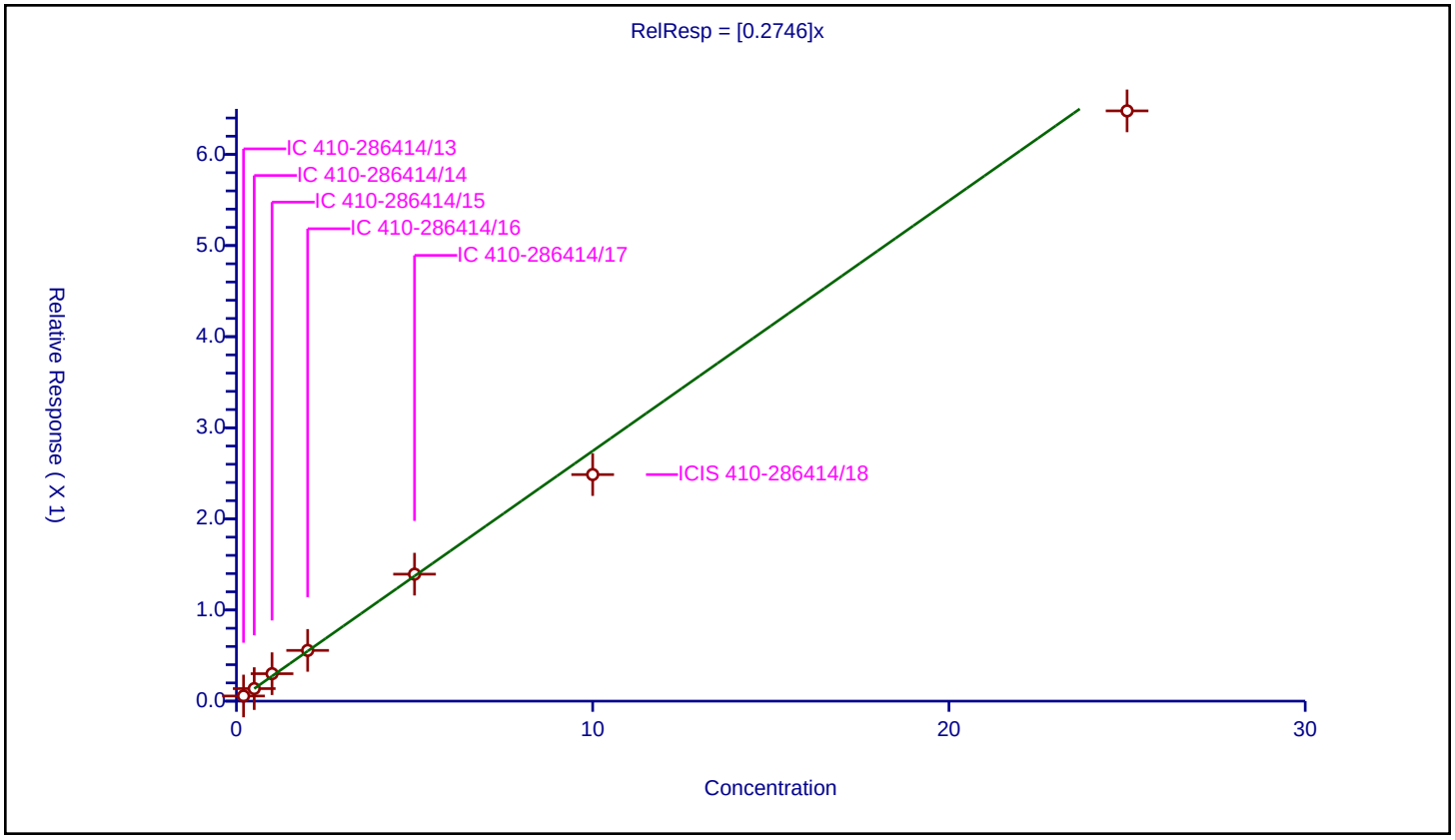
Curve Coefficients

Intercept:	0
Slope:	0.2746

Error Coefficients

Standard Error:	690000
Relative Standard Error:	6.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.056217	10.0	2204666.0	0.281086	Y
2	IC 410-286414/14	0.5	0.137425	10.0	2229222.0	0.274849	Y
3	IC 410-286414/15	1.0	0.3013	10.0	2229967.0	0.3013	Y
4	IC 410-286414/16	2.0	0.556624	10.0	2244586.0	0.278312	Y
5	IC 410-286414/17	5.0	1.393506	10.0	2296832.0	0.278701	Y
6	ICIS 410-286414/18	10.0	2.486619	10.0	2328270.0	0.248662	Y
7	IC 410-286414/19	25.0	6.478332	10.0	2388919.0	0.259133	Y



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Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

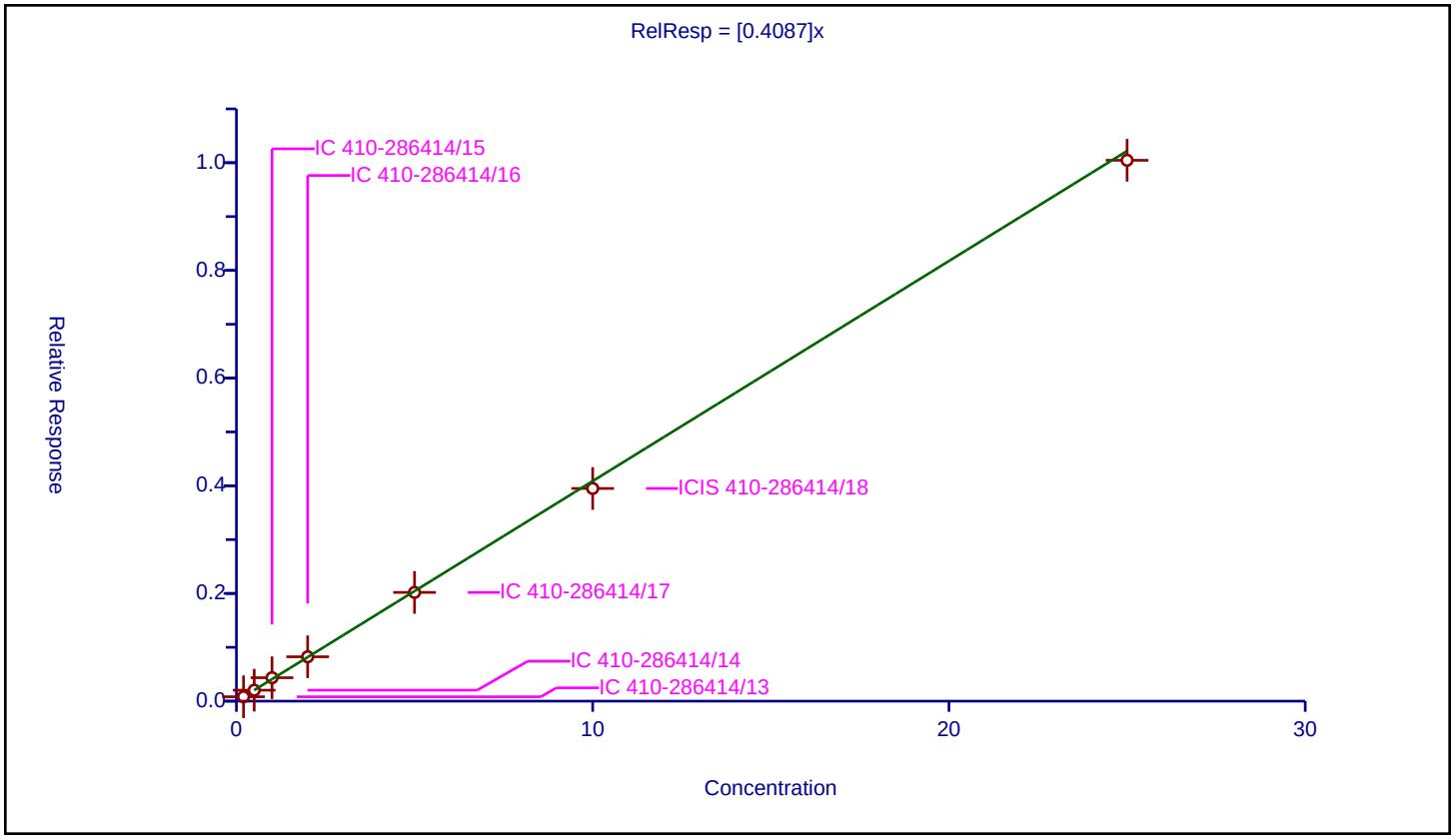
Curve Coefficients

Intercept:	0
Slope:	0.4087

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.081287	10.0	2204666.0	0.406433	Y
2	IC 410-286414/14	0.5	0.203533	10.0	2229222.0	0.407066	Y
3	IC 410-286414/15	1.0	0.434971	10.0	2229967.0	0.434971	Y
4	IC 410-286414/16	2.0	0.82384	10.0	2244586.0	0.41192	Y
5	IC 410-286414/17	5.0	2.019347	10.0	2296832.0	0.403869	Y
6	ICIS 410-286414/18	10.0	3.950521	10.0	2328270.0	0.395052	Y
7	IC 410-286414/19	25.0	10.045485	10.0	2388919.0	0.401819	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

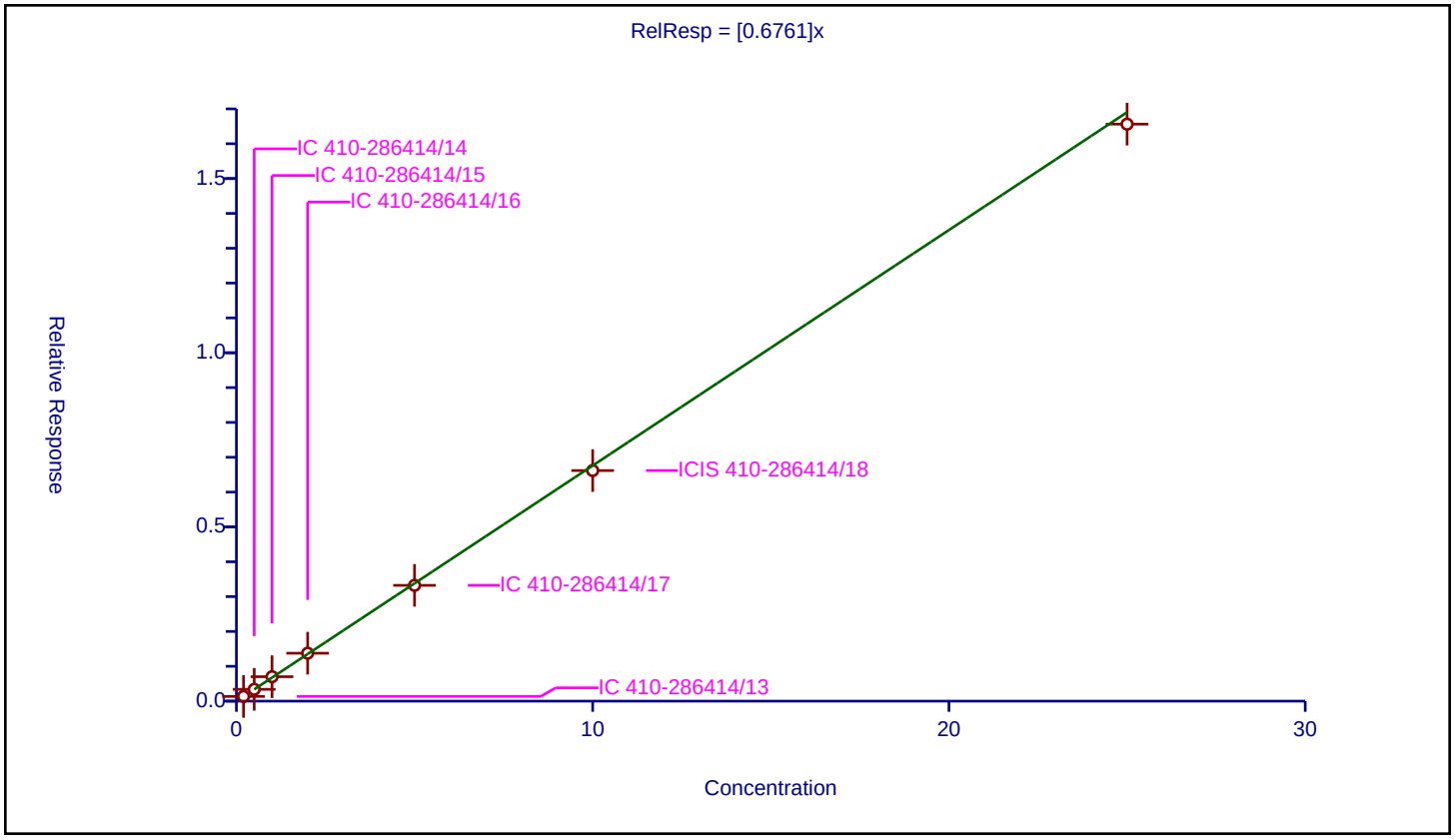
Curve Coefficients

Intercept:	0
Slope:	0.6761

Error Coefficients

Standard Error:	1770000
Relative Standard Error:	2.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.135204	10.0	2204666.0	0.676021	Y
2	IC 410-286414/14	0.5	0.339405	10.0	2229222.0	0.678811	Y
3	IC 410-286414/15	1.0	0.701096	10.0	2229967.0	0.701096	Y
4	IC 410-286414/16	2.0	1.375728	10.0	2244586.0	0.687864	Y
5	IC 410-286414/17	5.0	3.323443	10.0	2296832.0	0.664689	Y
6	ICIS 410-286414/18	10.0	6.619108	10.0	2328270.0	0.661911	Y
7	IC 410-286414/19	25.0	16.561847	10.0	2388919.0	0.662474	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

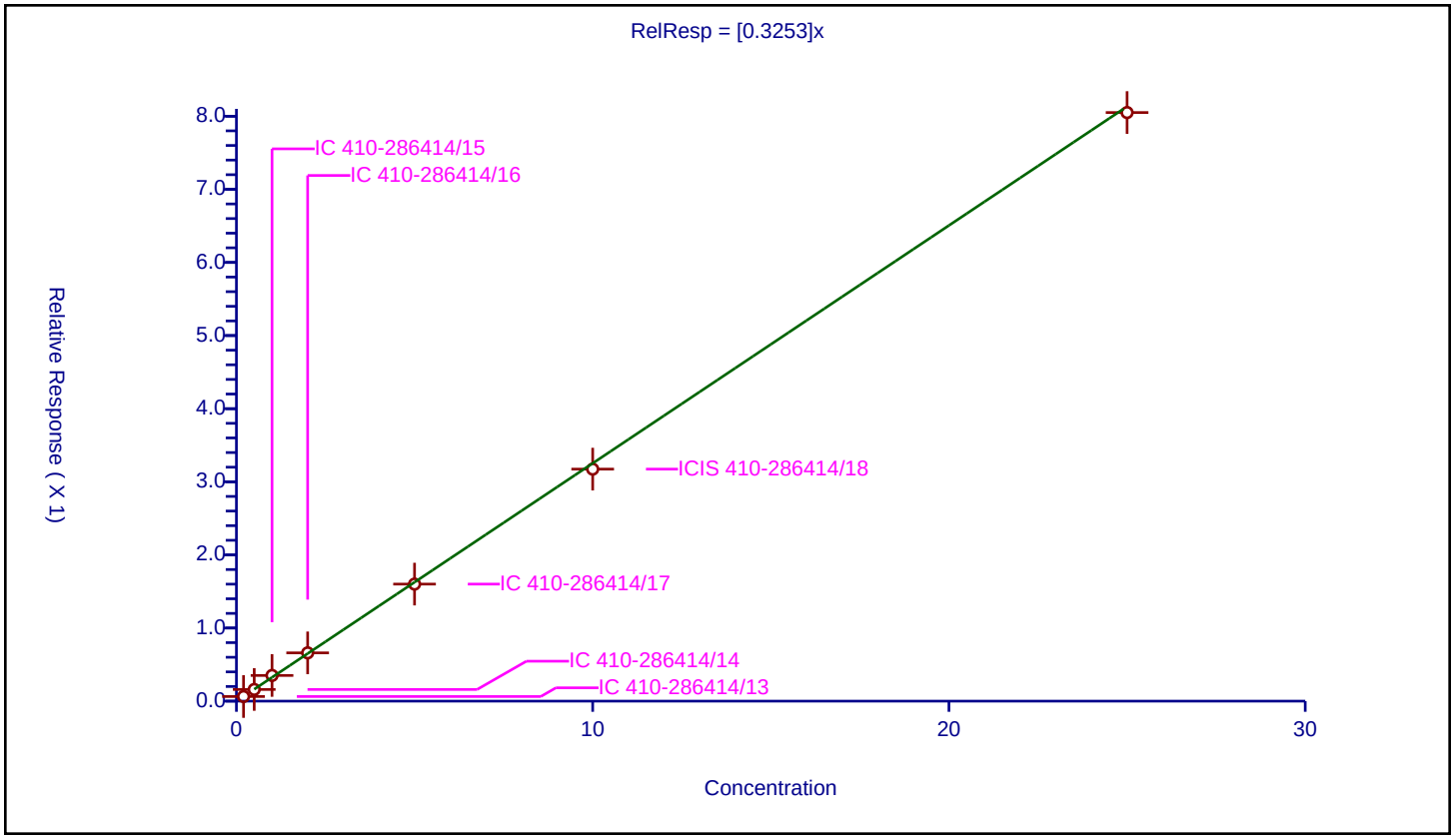
Curve Coefficients

Intercept:	0
Slope:	0.3253

Error Coefficients

Standard Error:	857000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.063288	10.0	2204666.0	0.316442	Y
2	IC 410-286414/14	0.5	0.159908	10.0	2229222.0	0.319816	Y
3	IC 410-286414/15	1.0	0.351265	10.0	2229967.0	0.351265	Y
4	IC 410-286414/16	2.0	0.660122	10.0	2244586.0	0.330061	Y
5	IC 410-286414/17	5.0	1.600853	10.0	2296832.0	0.320171	Y
6	ICIS 410-286414/18	10.0	3.173236	10.0	2328270.0	0.317324	Y
7	IC 410-286414/19	25.0	8.050064	10.0	2388919.0	0.322003	Y



Calibration / Tert-butyl ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

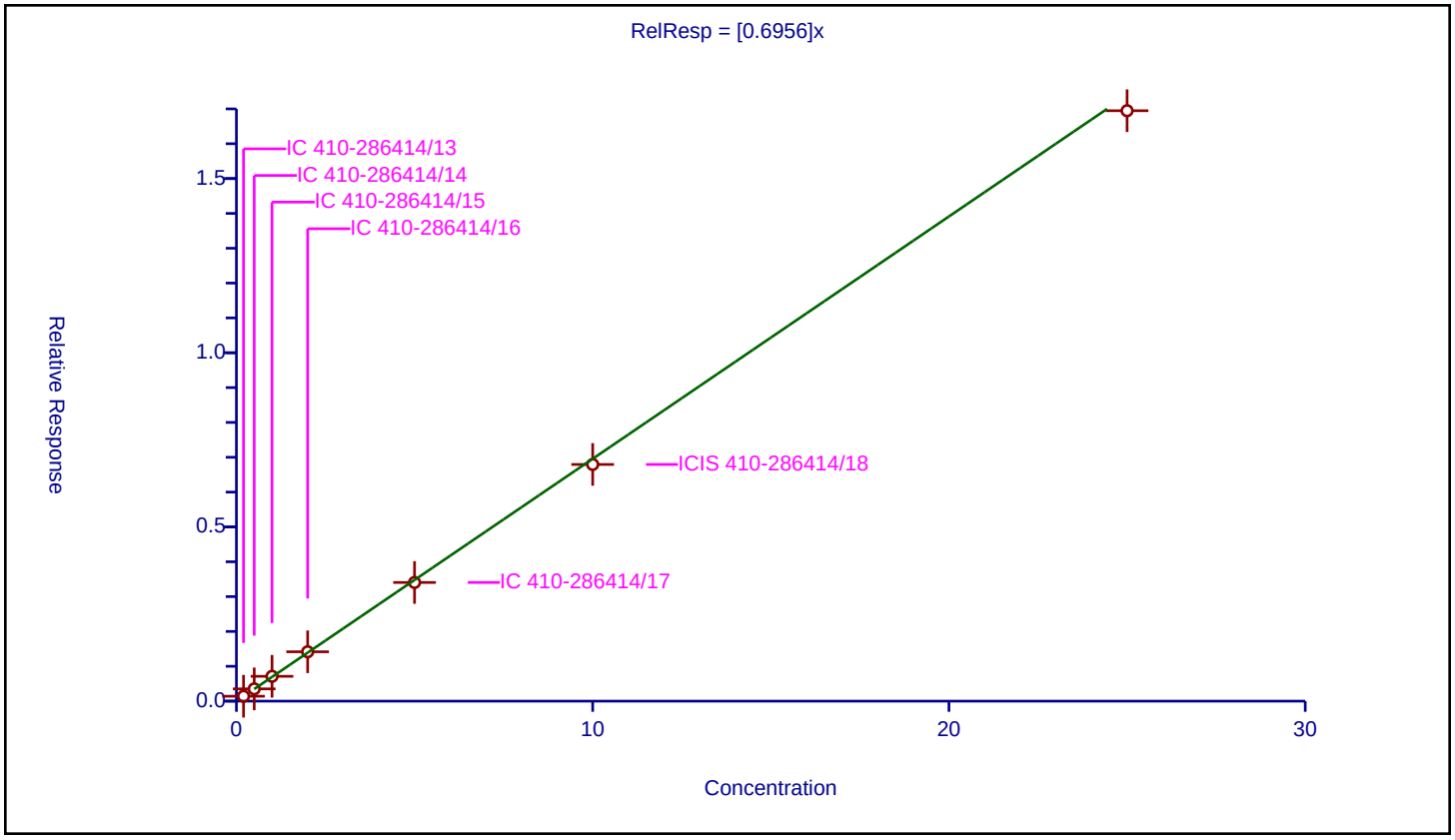
Curve Coefficients

Intercept:	0
Slope:	0.6956

Error Coefficients

Standard Error:	1810000
Relative Standard Error:	2.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.140951	10.0	2204666.0	0.704755	Y
2	IC 410-286414/14	0.5	0.352271	10.0	2229222.0	0.704542	Y
3	IC 410-286414/15	1.0	0.712782	10.0	2229967.0	0.712782	Y
4	IC 410-286414/16	2.0	1.417179	10.0	2244586.0	0.708589	Y
5	IC 410-286414/17	5.0	3.406457	10.0	2296832.0	0.681291	Y
6	ICIS 410-286414/18	10.0	6.793692	10.0	2328270.0	0.679369	Y
7	IC 410-286414/19	25.0	16.947435	10.0	2388919.0	0.677897	Y



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Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

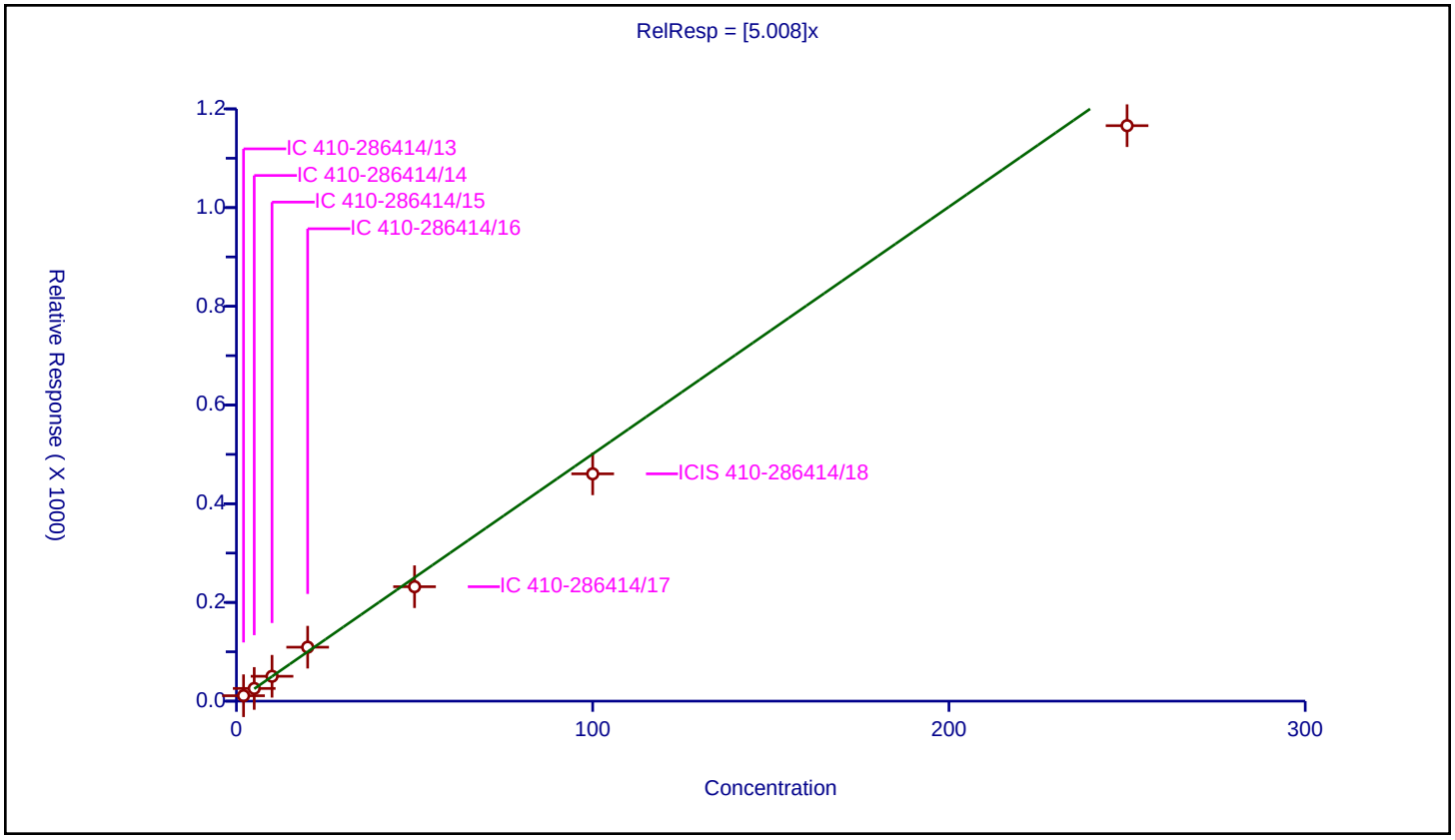
Curve Coefficients

Intercept:	0
Slope:	5.008

Error Coefficients

Standard Error:	1500000
Relative Standard Error:	7.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	2.0	11.004655	50.0	133180.0	5.502328	Y
2	IC 410-286414/14	5.0	25.722782	50.0	128635.0	5.144556	Y
3	IC 410-286414/15	10.0	50.361464	50.0	136943.0	5.036146	Y
4	IC 410-286414/16	20.0	109.311783	50.0	124917.0	5.465589	Y
5	IC 410-286414/17	50.0	231.841291	50.0	141819.0	4.636826	Y
6	ICIS 410-286414/18	100.0	460.539642	50.0	142576.0	4.605396	Y
7	IC 410-286414/19	250.0	1166.003688	50.0	143695.0	4.664015	Y



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Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

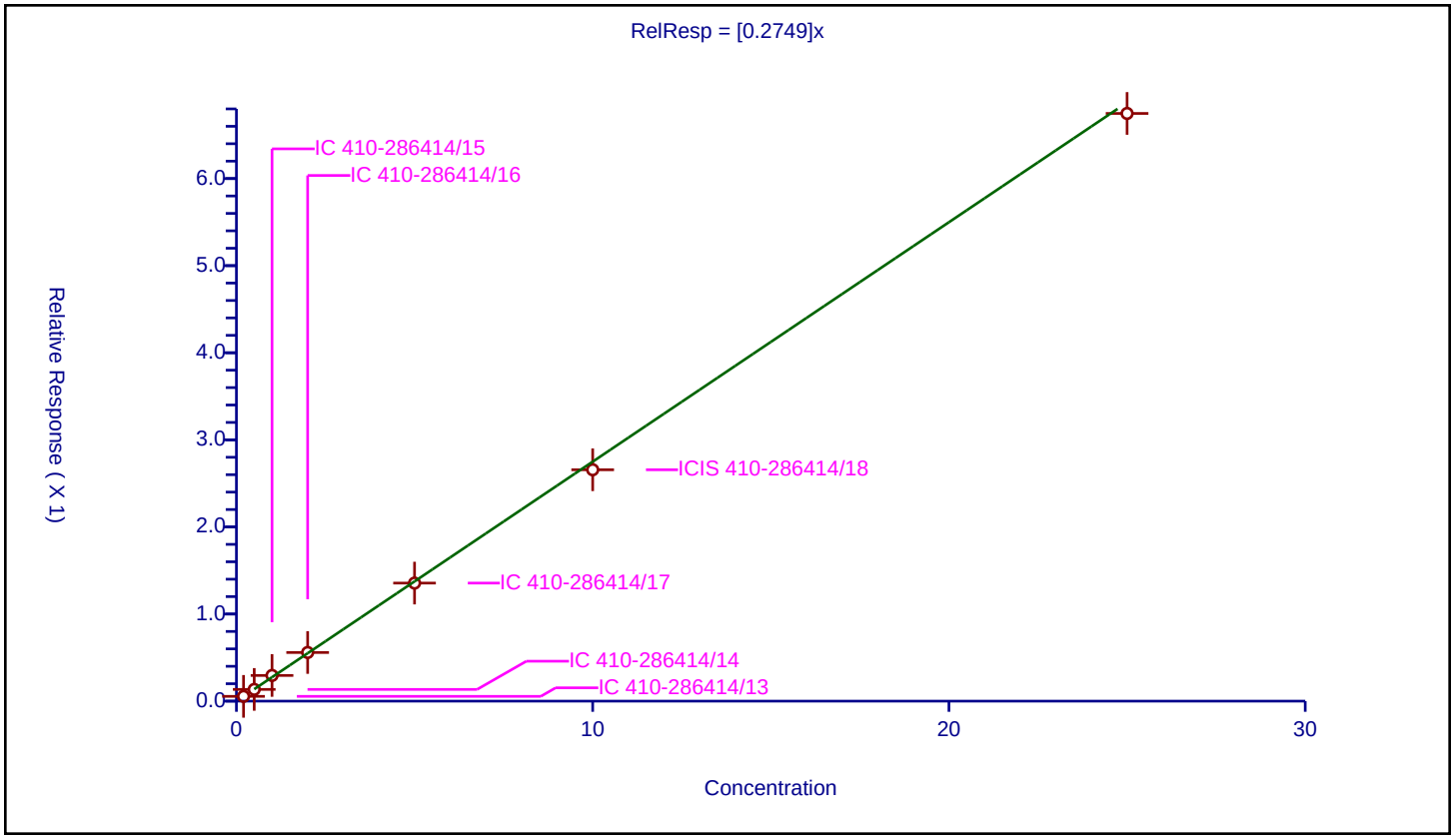
Curve Coefficients

Intercept:	0
Slope:	0.2749

Error Coefficients

Standard Error:	719000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.054879	10.0	2204666.0	0.274395	Y
2	IC 410-286414/14	0.5	0.13467	10.0	2229222.0	0.269341	Y
3	IC 410-286414/15	1.0	0.294883	10.0	2229967.0	0.294883	Y
4	IC 410-286414/16	2.0	0.558629	10.0	2244586.0	0.279314	Y
5	IC 410-286414/17	5.0	1.35558	10.0	2296832.0	0.271116	Y
6	ICIS 410-286414/18	10.0	2.656694	10.0	2328270.0	0.265669	Y
7	IC 410-286414/19	25.0	6.747596	10.0	2388919.0	0.269904	Y



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Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

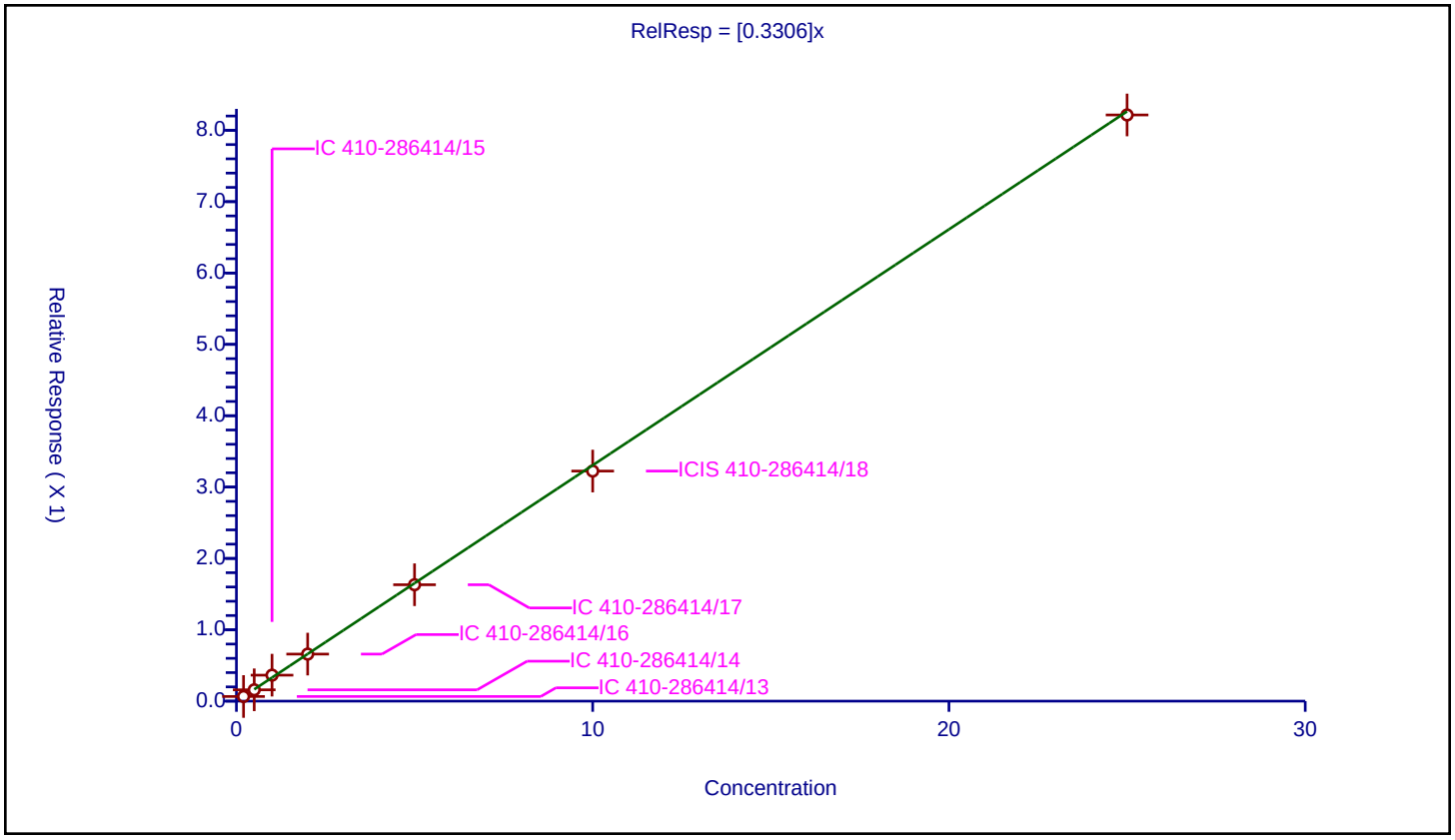
Curve Coefficients

Intercept:	0
Slope:	0.3306

Error Coefficients

Standard Error:	874000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.06513	10.0	2204666.0	0.32565	Y
2	IC 410-286414/14	0.5	0.158679	10.0	2229222.0	0.317357	Y
3	IC 410-286414/15	1.0	0.364167	10.0	2229967.0	0.364167	Y
4	IC 410-286414/16	2.0	0.659191	10.0	2244586.0	0.329595	Y
5	IC 410-286414/17	5.0	1.631186	10.0	2296832.0	0.326237	Y
6	ICIS 410-286414/18	10.0	3.224398	10.0	2328270.0	0.32244	Y
7	IC 410-286414/19	25.0	8.214783	10.0	2388919.0	0.328591	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

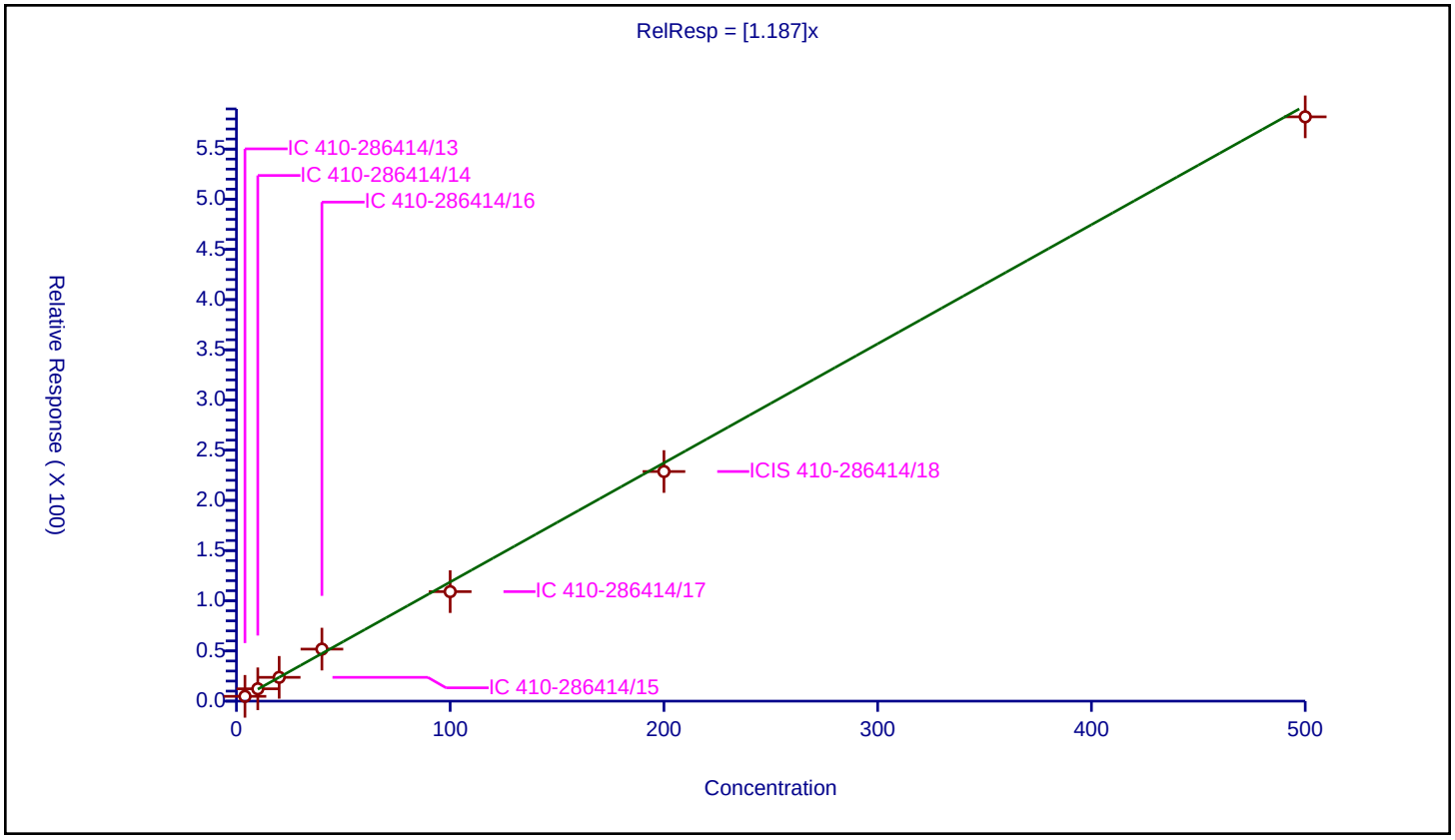
Curve Coefficients

Intercept:	0
Slope:	1.187

Error Coefficients

Standard Error:	746000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	4.0	4.789758	50.0	133180.0	1.19744	Y
2	IC 410-286414/14	10.0	12.289812	50.0	128635.0	1.228981	Y
3	IC 410-286414/15	20.0	23.704023	50.0	136943.0	1.185201	Y
4	IC 410-286414/16	40.0	51.823611	50.0	124917.0	1.29559	Y
5	IC 410-286414/17	100.0	109.095044	50.0	141819.0	1.09095	Y
6	ICIS 410-286414/18	200.0	228.757996	50.0	142576.0	1.14379	Y
7	IC 410-286414/19	500.0	582.098194	50.0	143695.0	1.164196	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

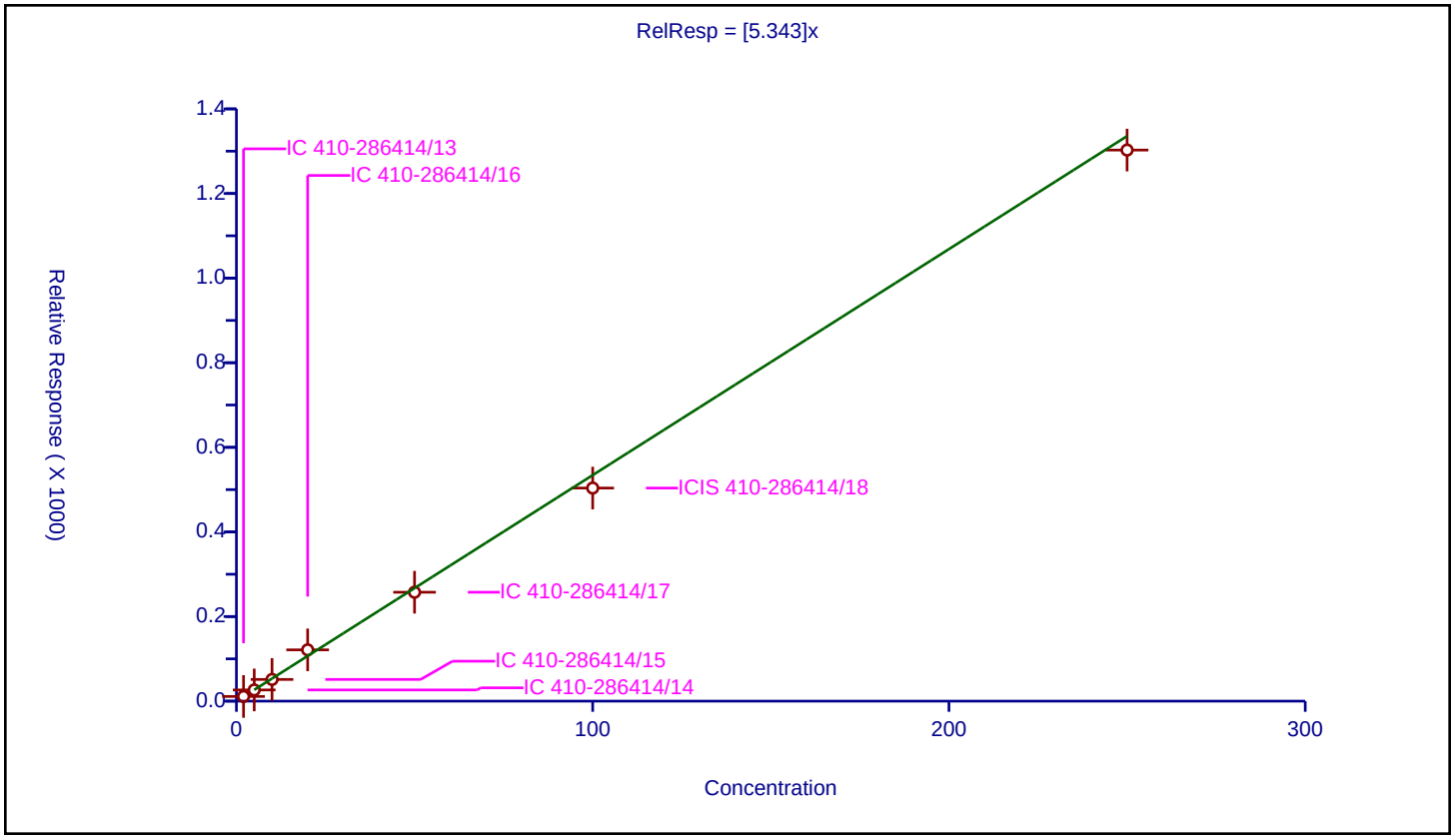
Curve Coefficients

Intercept:	0
Slope:	5.343

Error Coefficients

Standard Error:	1670000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	2.0	11.035065	50.0	133180.0	5.517533	Y
2	IC 410-286414/14	5.0	26.459362	50.0	128635.0	5.291872	Y
3	IC 410-286414/15	10.0	51.311129	50.0	136943.0	5.131113	Y
4	IC 410-286414/16	20.0	121.20528	50.0	124917.0	6.060264	Y
5	IC 410-286414/17	50.0	257.492649	50.0	141819.0	5.149853	Y
6	ICIS 410-286414/18	100.0	503.726083	50.0	142576.0	5.037261	Y
7	IC 410-286414/19	250.0	1302.684853	50.0	143695.0	5.210739	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

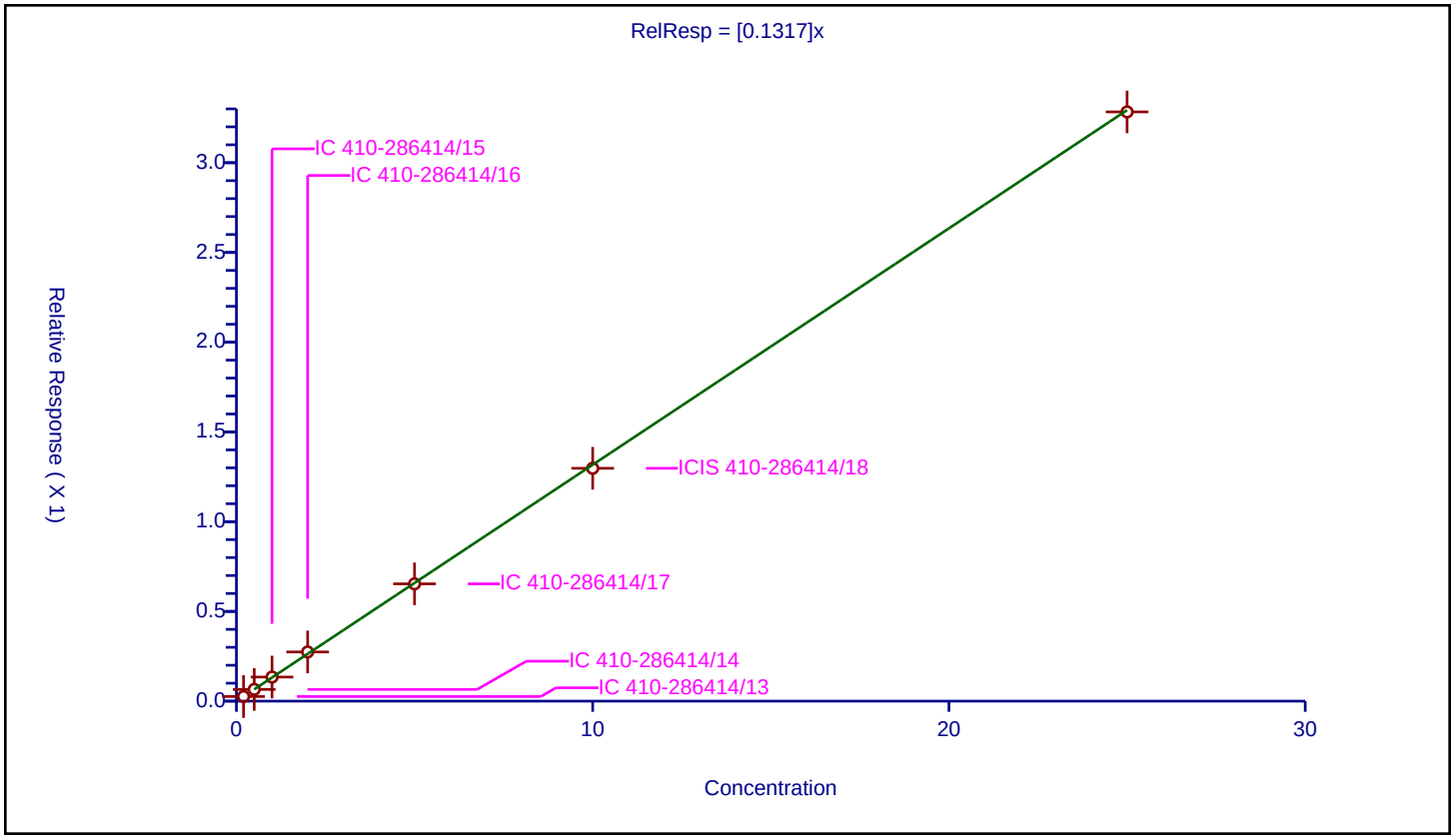
Curve Coefficients

Intercept:	0
Slope:	0.1317

Error Coefficients

Standard Error:	350000
Relative Standard Error:	2.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.025686	10.0	2204666.0	0.128432	Y
2	IC 410-286414/14	0.5	0.065305	10.0	2229222.0	0.130611	Y
3	IC 410-286414/15	1.0	0.134195	10.0	2229967.0	0.134195	Y
4	IC 410-286414/16	2.0	0.274073	10.0	2244586.0	0.137036	Y
5	IC 410-286414/17	5.0	0.653452	10.0	2296832.0	0.13069	Y
6	ICIS 410-286414/18	10.0	1.297392	10.0	2328270.0	0.129739	Y
7	IC 410-286414/19	25.0	3.283171	10.0	2388919.0	0.131327	Y



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Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

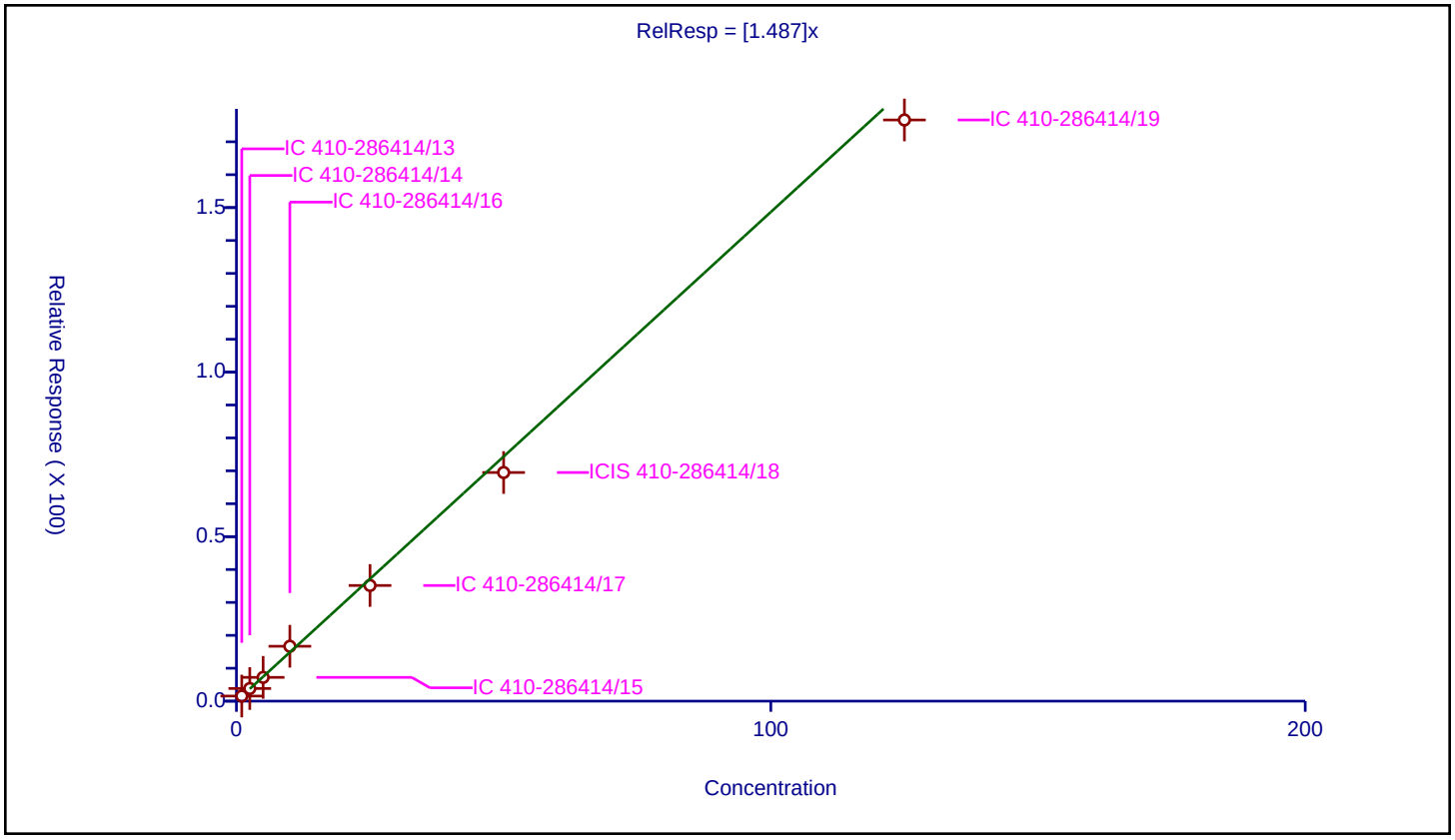
Curve Coefficients

Intercept:	0
Slope:	1.487

Error Coefficients

Standard Error:	227000
Relative Standard Error:	6.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	1.0	1.548281	50.0	133180.0	1.548281	Y
2	IC 410-286414/14	2.5	3.839157	50.0	128635.0	1.535663	Y
3	IC 410-286414/15	5.0	7.225999	50.0	136943.0	1.4452	Y
4	IC 410-286414/16	10.0	16.678274	50.0	124917.0	1.667827	Y
5	IC 410-286414/17	25.0	35.153611	50.0	141819.0	1.406144	Y
6	ICIS 410-286414/18	50.0	69.49206	50.0	142576.0	1.389841	Y
7	IC 410-286414/19	125.0	176.631407	50.0	143695.0	1.413051	Y



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Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

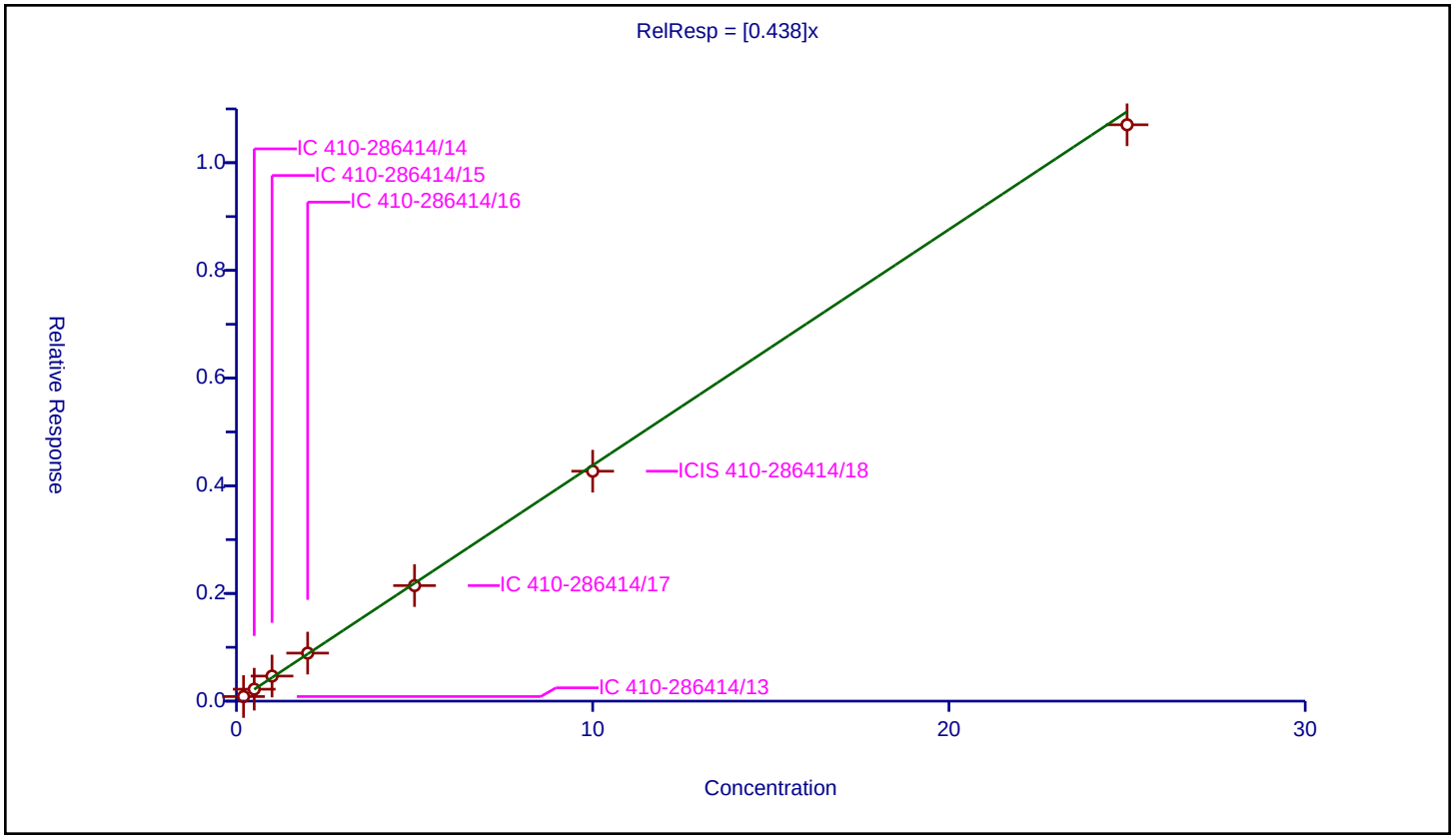
Curve Coefficients

Intercept:	0
Slope:	0.438

Error Coefficients

Standard Error:	1140000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.085178	10.0	2204666.0	0.425892	Y
2	IC 410-286414/14	0.5	0.222051	10.0	2229222.0	0.444101	Y
3	IC 410-286414/15	1.0	0.465536	10.0	2229967.0	0.465536	Y
4	IC 410-286414/16	2.0	0.892035	10.0	2244586.0	0.446018	Y
5	IC 410-286414/17	5.0	2.146182	10.0	2296832.0	0.429236	Y
6	ICIS 410-286414/18	10.0	4.27063	10.0	2328270.0	0.427063	Y
7	IC 410-286414/19	25.0	10.705311	10.0	2388919.0	0.428212	Y



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Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

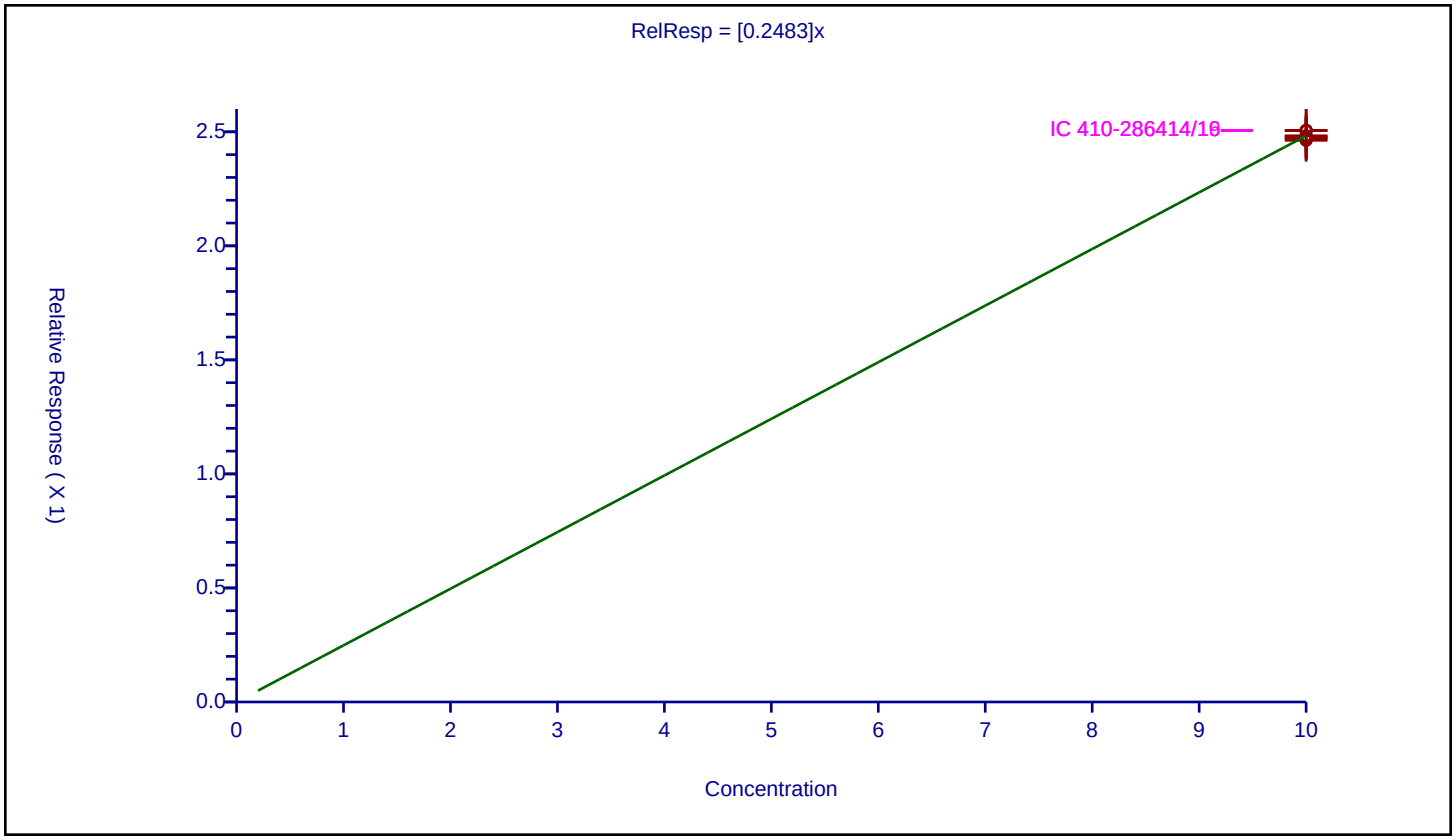
Curve Coefficients

Intercept:	0
Slope:	0.2483

Error Coefficients

Standard Error:	610000
Relative Standard Error:	0.7
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	10.0	2.462759	10.0	2204666.0	0.246276	Y
2	IC 410-286414/14	10.0	2.482651	10.0	2229222.0	0.248265	Y
3	IC 410-286414/15	10.0	2.473835	10.0	2229967.0	0.247383	Y
4	IC 410-286414/16	10.0	2.5055	10.0	2244586.0	0.25055	Y
5	IC 410-286414/17	10.0	2.479319	10.0	2296832.0	0.247932	Y
6	ICIS 410-286414/18	10.0	2.468726	10.0	2328270.0	0.246873	Y
7	IC 410-286414/19	10.0	2.506113	10.0	2388919.0	0.250611	Y



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Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

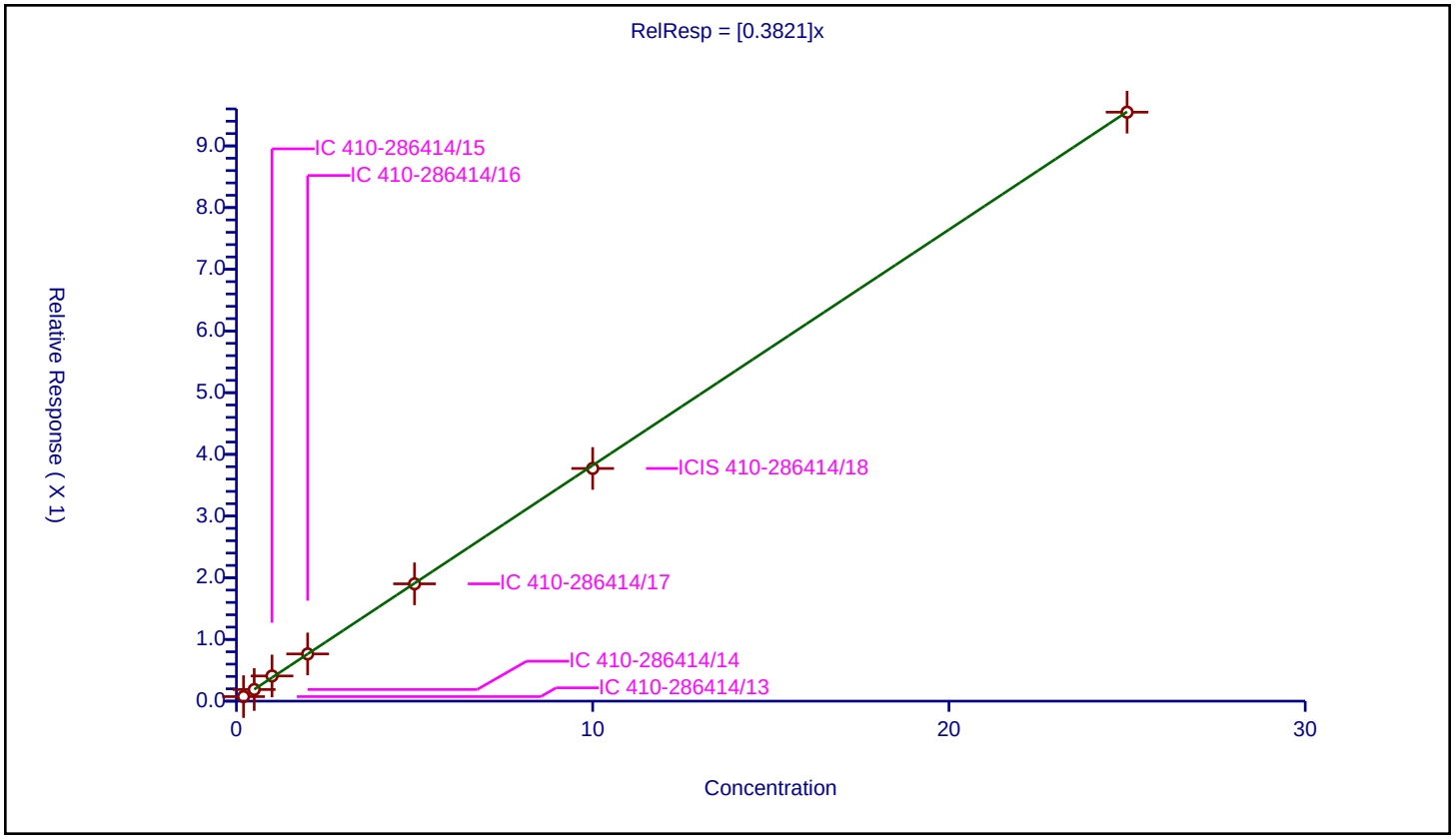
Curve Coefficients

Intercept:	0
Slope:	0.3821

Error Coefficients

Standard Error:	1020000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.073639	10.0	2204666.0	0.368196	Y
2	IC 410-286414/14	0.5	0.188232	10.0	2229222.0	0.376463	Y
3	IC 410-286414/15	1.0	0.408338	10.0	2229967.0	0.408338	Y
4	IC 410-286414/16	2.0	0.765295	10.0	2244586.0	0.382647	Y
5	IC 410-286414/17	5.0	1.90148	10.0	2296832.0	0.380296	Y
6	ICIS 410-286414/18	10.0	3.77156	10.0	2328270.0	0.377156	Y
7	IC 410-286414/19	25.0	9.546565	10.0	2388919.0	0.381863	Y



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Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

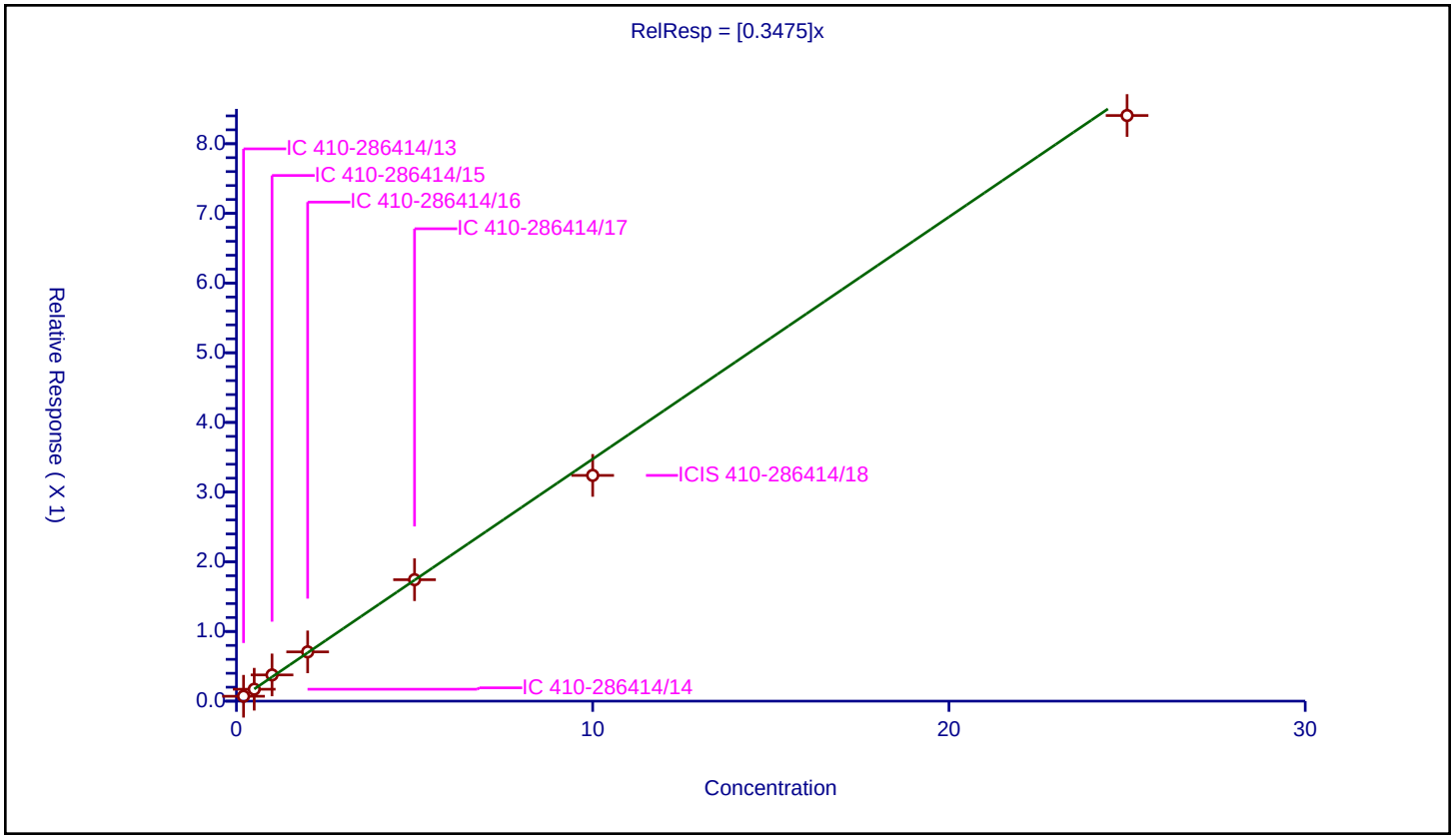
Curve Coefficients

Intercept:	0
Slope:	0.3475

Error Coefficients

Standard Error:	894000
Relative Standard Error:	4.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.070283	10.0	2204666.0	0.351414	Y
2	IC 410-286414/14	0.5	0.171203	10.0	2229222.0	0.342406	Y
3	IC 410-286414/15	1.0	0.376171	10.0	2229967.0	0.376171	Y
4	IC 410-286414/16	2.0	0.706897	10.0	2244586.0	0.353448	Y
5	IC 410-286414/17	5.0	1.743014	10.0	2296832.0	0.348603	Y
6	ICIS 410-286414/18	10.0	3.239968	10.0	2328270.0	0.323997	Y
7	IC 410-286414/19	25.0	8.405065	10.0	2388919.0	0.336203	Y



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Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

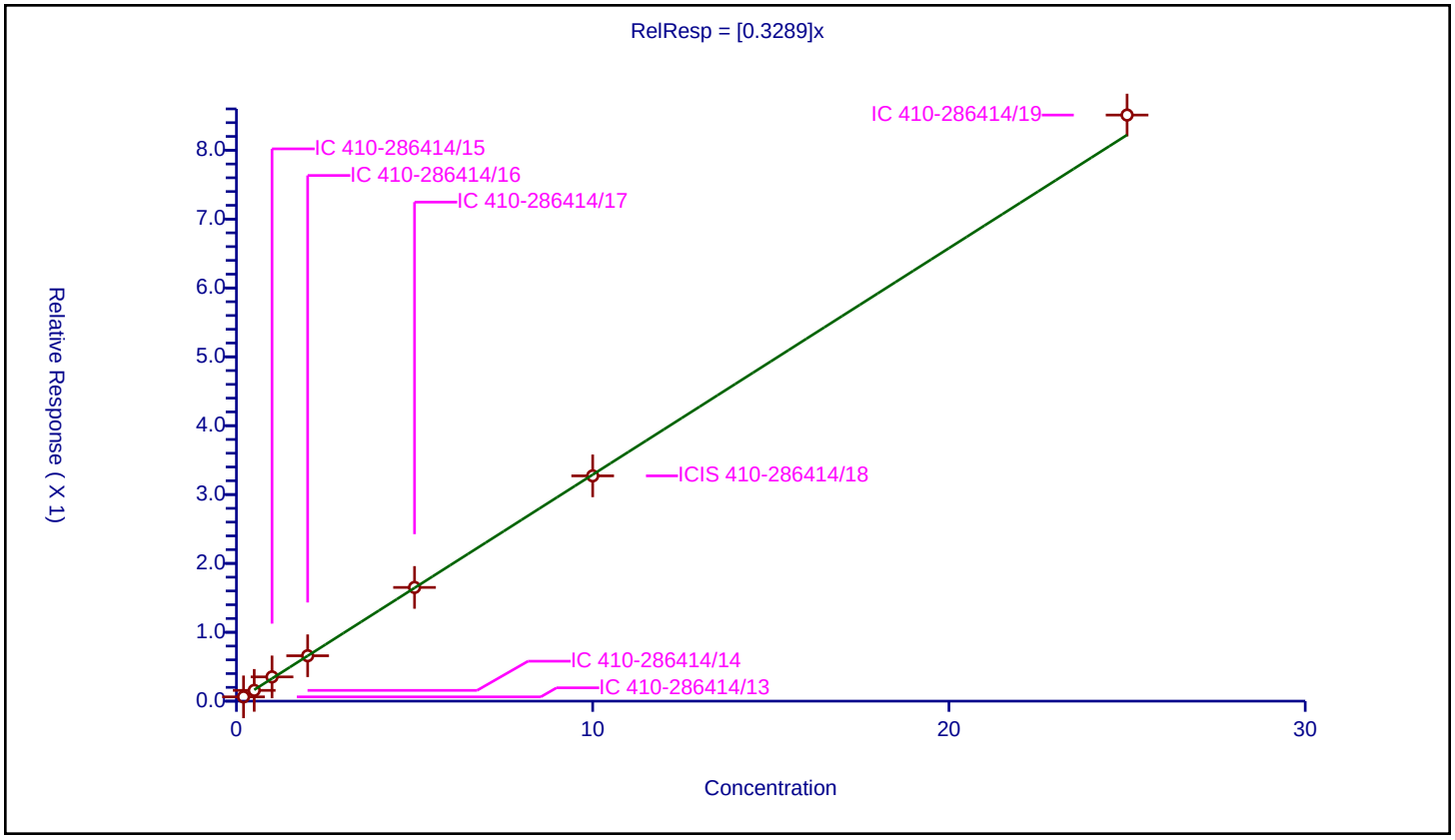
Curve Coefficients

Intercept:	0
Slope:	0.3289

Error Coefficients

Standard Error:	902000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.061955	10.0	2204666.0	0.309775	Y
2	IC 410-286414/14	0.5	0.156521	10.0	2229222.0	0.313042	Y
3	IC 410-286414/15	1.0	0.352041	10.0	2229967.0	0.352041	Y
4	IC 410-286414/16	2.0	0.659061	10.0	2244586.0	0.329531	Y
5	IC 410-286414/17	5.0	1.651296	10.0	2296832.0	0.330259	Y
6	ICIS 410-286414/18	10.0	3.271296	10.0	2328270.0	0.32713	Y
7	IC 410-286414/19	25.0	8.510674	10.0	2388919.0	0.340427	Y



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Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

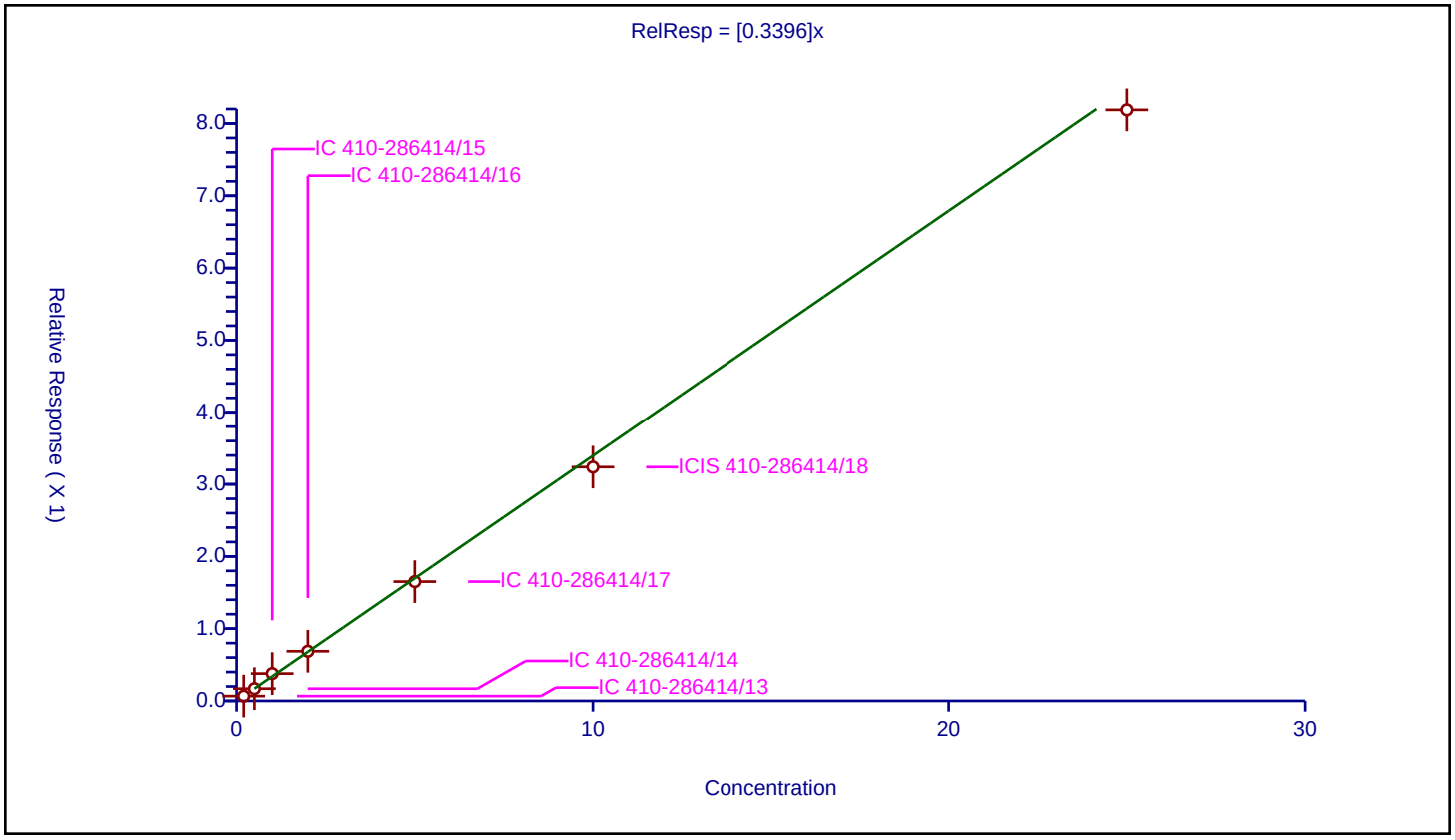
Curve Coefficients

Intercept:	0
Slope:	0.3396

Error Coefficients

Standard Error:	873000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.066885	10.0	2204666.0	0.334427	Y
2	IC 410-286414/14	0.5	0.169543	10.0	2229222.0	0.339087	Y
3	IC 410-286414/15	1.0	0.378328	10.0	2229967.0	0.378328	Y
4	IC 410-286414/16	2.0	0.687111	10.0	2244586.0	0.343556	Y
5	IC 410-286414/17	5.0	1.651092	10.0	2296832.0	0.330218	Y
6	ICIS 410-286414/18	10.0	3.239079	10.0	2328270.0	0.323908	Y
7	IC 410-286414/19	25.0	8.188306	10.0	2388919.0	0.327532	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

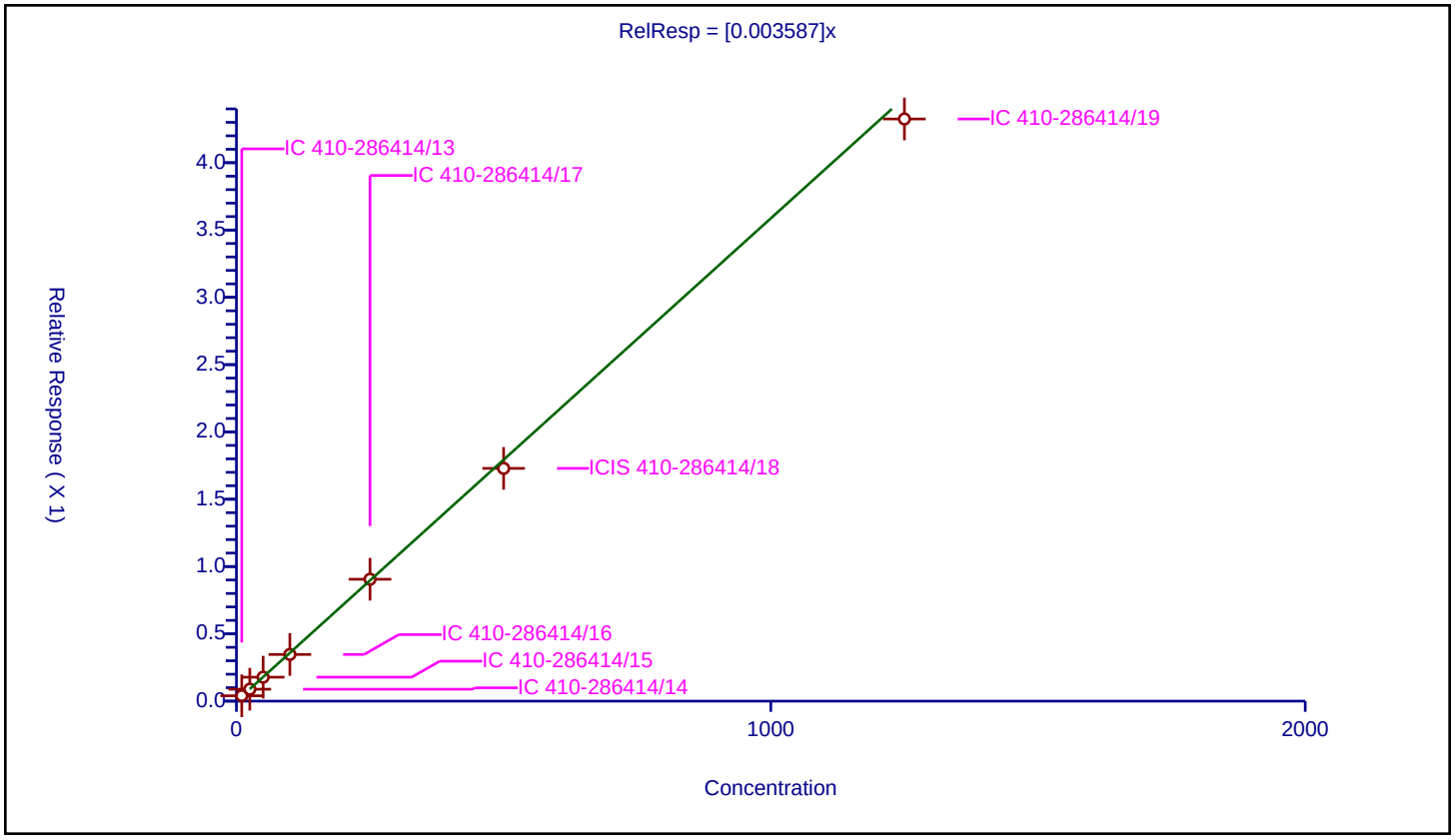
Curve Coefficients

Intercept:	0
Slope:	0.003587

Error Coefficients

Standard Error:	462000
Relative Standard Error:	5.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	10.0	0.039943	10.0	2204666.0	0.003994	Y
2	IC 410-286414/14	25.0	0.088681	10.0	2229222.0	0.003547	Y
3	IC 410-286414/15	50.0	0.177931	10.0	2229967.0	0.003559	Y
4	IC 410-286414/16	100.0	0.346799	10.0	2244586.0	0.003468	Y
5	IC 410-286414/17	250.0	0.905552	10.0	2296832.0	0.003622	Y
6	ICIS 410-286414/18	500.0	1.72925	10.0	2328270.0	0.003458	Y
7	IC 410-286414/19	1250.0	4.325044	10.0	2388919.0	0.00346	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

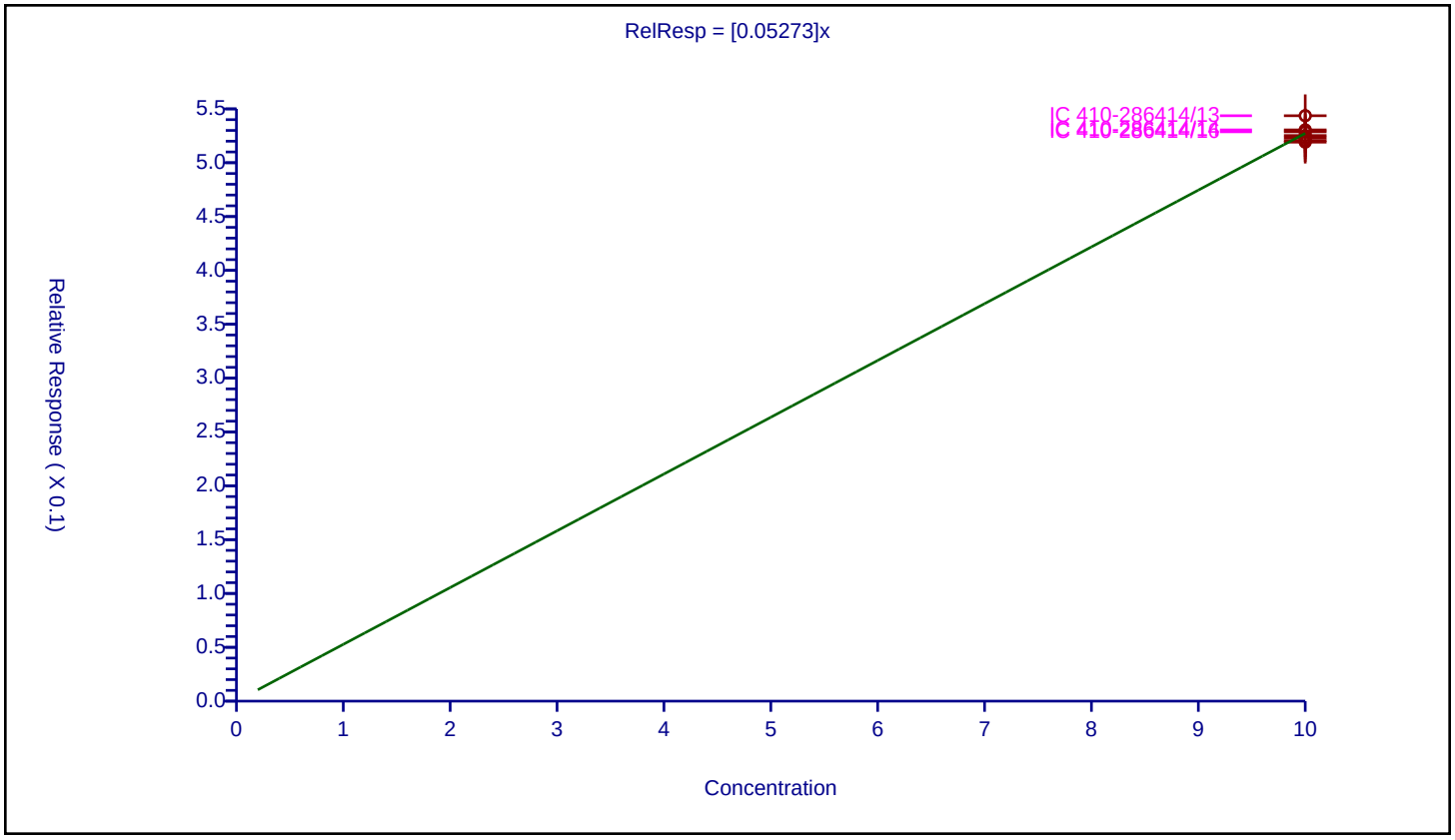
Curve Coefficients

Intercept:	0
Slope:	0.05273

Error Coefficients

Standard Error:	130000
Relative Standard Error:	1.6
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	10.0	0.543652	10.0	2204666.0	0.054365	Y
2	IC 410-286414/14	10.0	0.530477	10.0	2229222.0	0.053048	Y
3	IC 410-286414/15	10.0	0.525272	10.0	2229967.0	0.052527	Y
4	IC 410-286414/16	10.0	0.528721	10.0	2244586.0	0.052872	Y
5	IC 410-286414/17	10.0	0.52309	10.0	2296832.0	0.052309	Y
6	ICIS 410-286414/18	10.0	0.519098	10.0	2328270.0	0.05191	Y
7	IC 410-286414/19	10.0	0.520654	10.0	2388919.0	0.052065	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

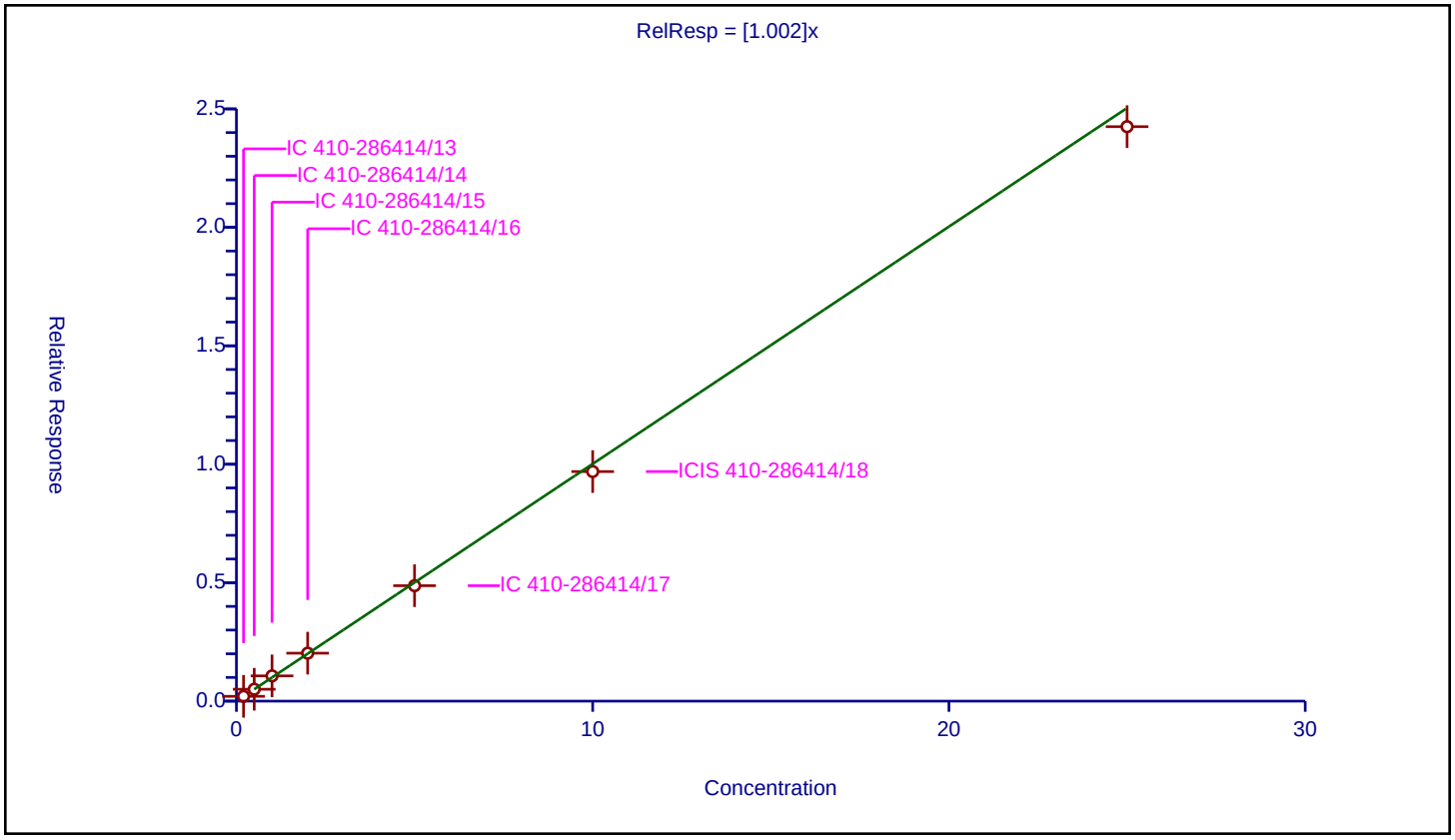
Curve Coefficients

Intercept:	0
Slope:	1.002

Error Coefficients

Standard Error:	2590000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.202747	10.0	2204666.0	1.013736	Y
2	IC 410-286414/14	0.5	0.50222	10.0	2229222.0	1.00444	Y
3	IC 410-286414/15	1.0	1.066401	10.0	2229967.0	1.066401	Y
4	IC 410-286414/16	2.0	2.024391	10.0	2244586.0	1.012196	Y
5	IC 410-286414/17	5.0	4.873604	10.0	2296832.0	0.974721	Y
6	ICIS 410-286414/18	10.0	9.690758	10.0	2328270.0	0.969076	Y
7	IC 410-286414/19	25.0	24.249596	10.0	2388919.0	0.969984	Y



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Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

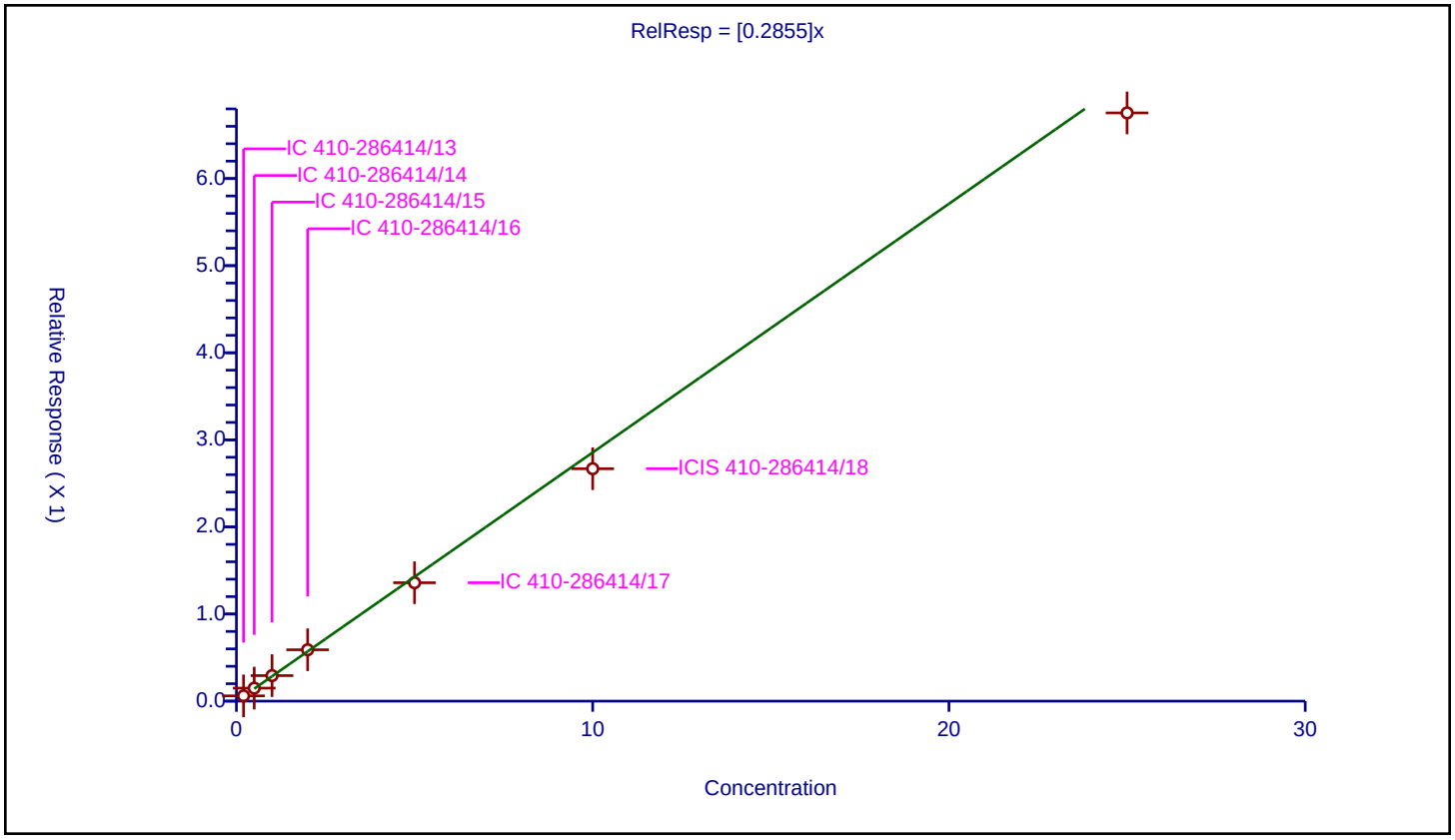
Curve Coefficients

Intercept:	0
Slope:	0.2855

Error Coefficients

Standard Error:	720000
Relative Standard Error:	5.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.060558	10.0	2204666.0	0.30279	Y
2	IC 410-286414/14	0.5	0.149528	10.0	2229222.0	0.299055	Y
3	IC 410-286414/15	1.0	0.293049	10.0	2229967.0	0.293049	Y
4	IC 410-286414/16	2.0	0.589757	10.0	2244586.0	0.294878	Y
5	IC 410-286414/17	5.0	1.35952	10.0	2296832.0	0.271904	Y
6	ICIS 410-286414/18	10.0	2.668556	10.0	2328270.0	0.266856	Y
7	IC 410-286414/19	25.0	6.75385	10.0	2388919.0	0.270154	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

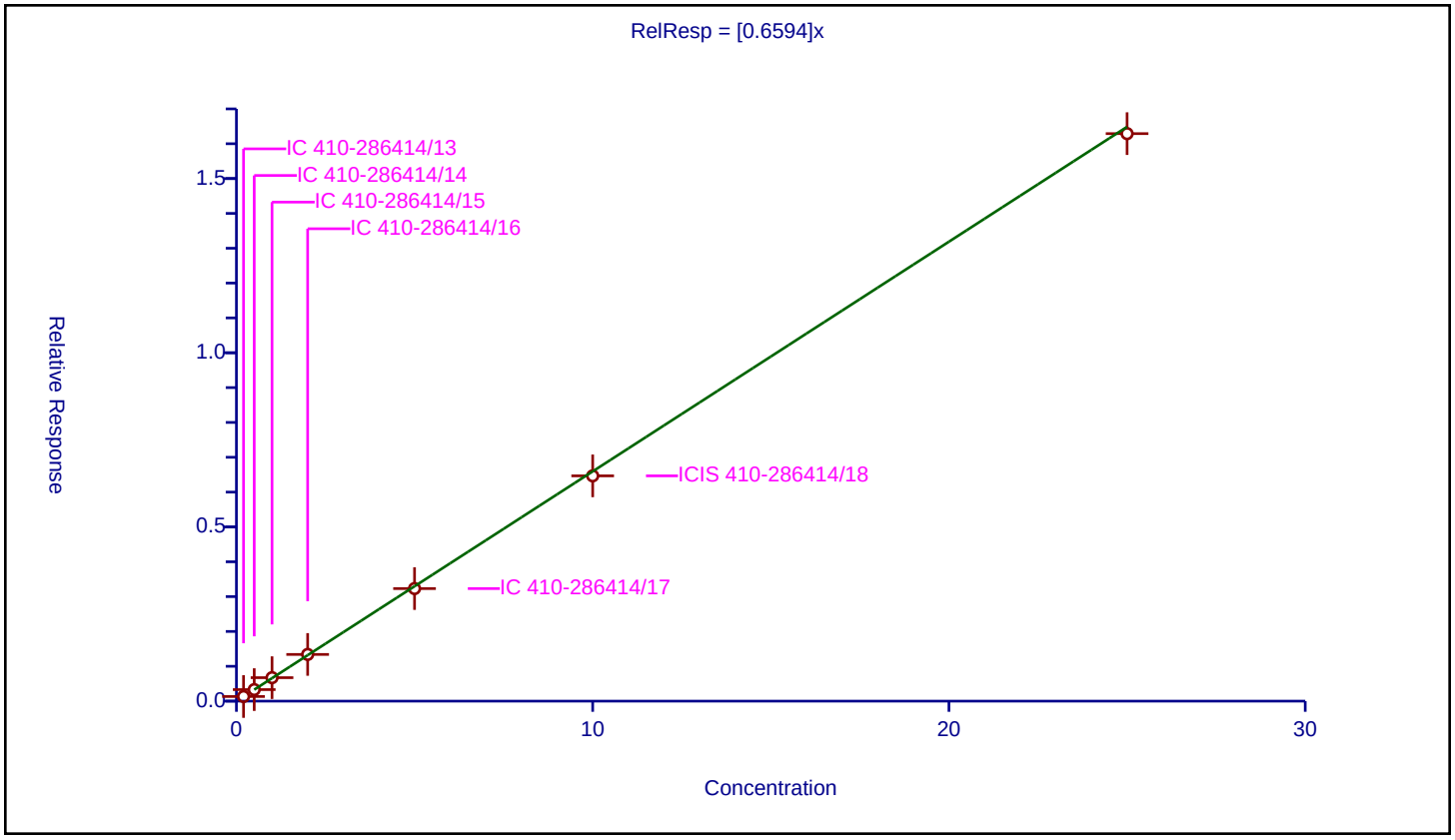
Curve Coefficients

Intercept:	0
Slope:	0.6594

Error Coefficients

Standard Error:	1740000
Relative Standard Error:	1.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.132904	10.0	2204666.0	0.664522	Y
2	IC 410-286414/14	0.5	0.331084	10.0	2229222.0	0.662168	Y
3	IC 410-286414/15	1.0	0.674104	10.0	2229967.0	0.674104	Y
4	IC 410-286414/16	2.0	1.34084	10.0	2244586.0	0.67042	Y
5	IC 410-286414/17	5.0	3.231547	10.0	2296832.0	0.646309	Y
6	ICIS 410-286414/18	10.0	6.466694	10.0	2328270.0	0.646669	Y
7	IC 410-286414/19	25.0	16.289749	10.0	2388919.0	0.65159	Y



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Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

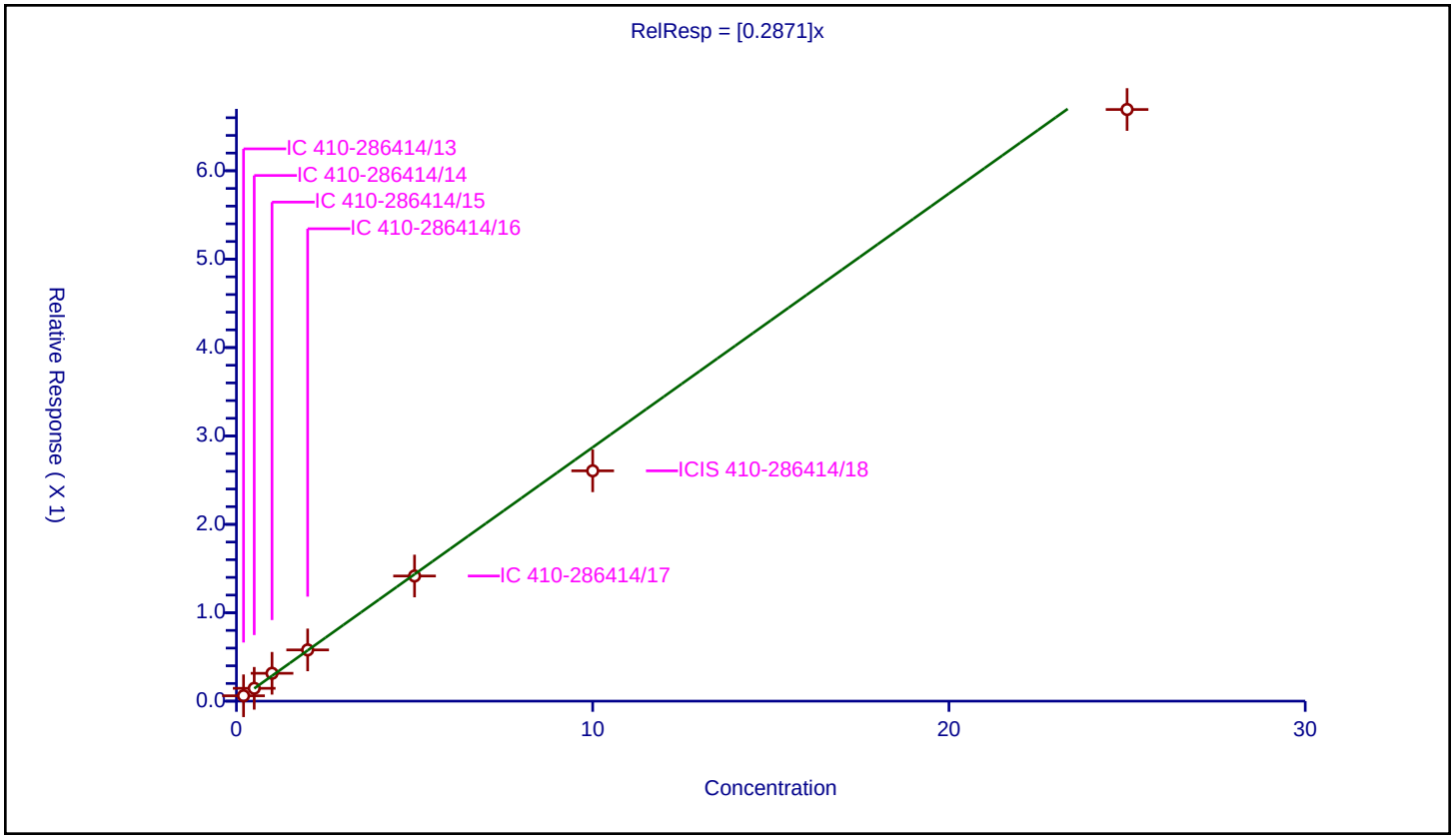
Curve Coefficients

Intercept:	0
Slope:	0.2871

Error Coefficients

Standard Error:	713000
Relative Standard Error:	6.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.060717	10.0	2204666.0	0.303583	Y
2	IC 410-286414/14	0.5	0.145158	10.0	2229222.0	0.290317	Y
3	IC 410-286414/15	1.0	0.314919	10.0	2229967.0	0.314919	Y
4	IC 410-286414/16	2.0	0.579497	10.0	2244586.0	0.289748	Y
5	IC 410-286414/17	5.0	1.41558	10.0	2296832.0	0.283116	Y
6	ICIS 410-286414/18	10.0	2.605441	10.0	2328270.0	0.260544	Y
7	IC 410-286414/19	25.0	6.693069	10.0	2388919.0	0.267723	Y



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Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

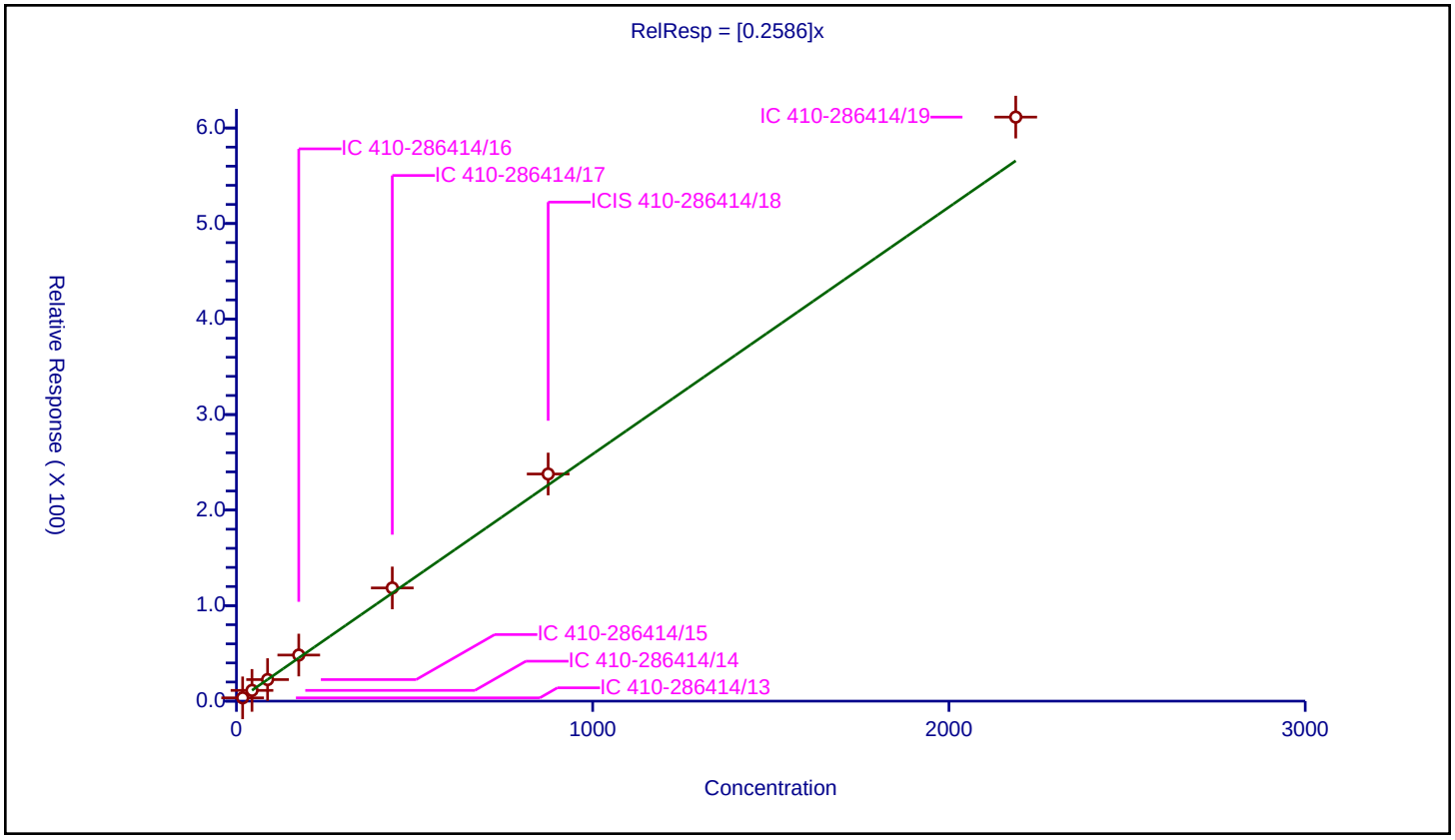
Curve Coefficients

Intercept:	0
Slope:	0.2586

Error Coefficients

Standard Error:	783000
Relative Standard Error:	10.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	17.5	3.454347	50.0	133180.0	0.197391	Y
2	IC 410-286414/14	43.75	11.242663	50.0	128635.0	0.256975	Y
3	IC 410-286414/15	87.5	22.567784	50.0	136943.0	0.257918	Y
4	IC 410-286414/16	175.0	48.251639	50.0	124917.0	0.275724	Y
5	IC 410-286414/17	437.5	118.524669	50.0	141819.0	0.270914	Y
6	ICIS 410-286414/18	875.0	237.79493	50.0	142576.0	0.271766	Y
7	IC 410-286414/19	2187.5	611.42037	50.0	143695.0	0.279506	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

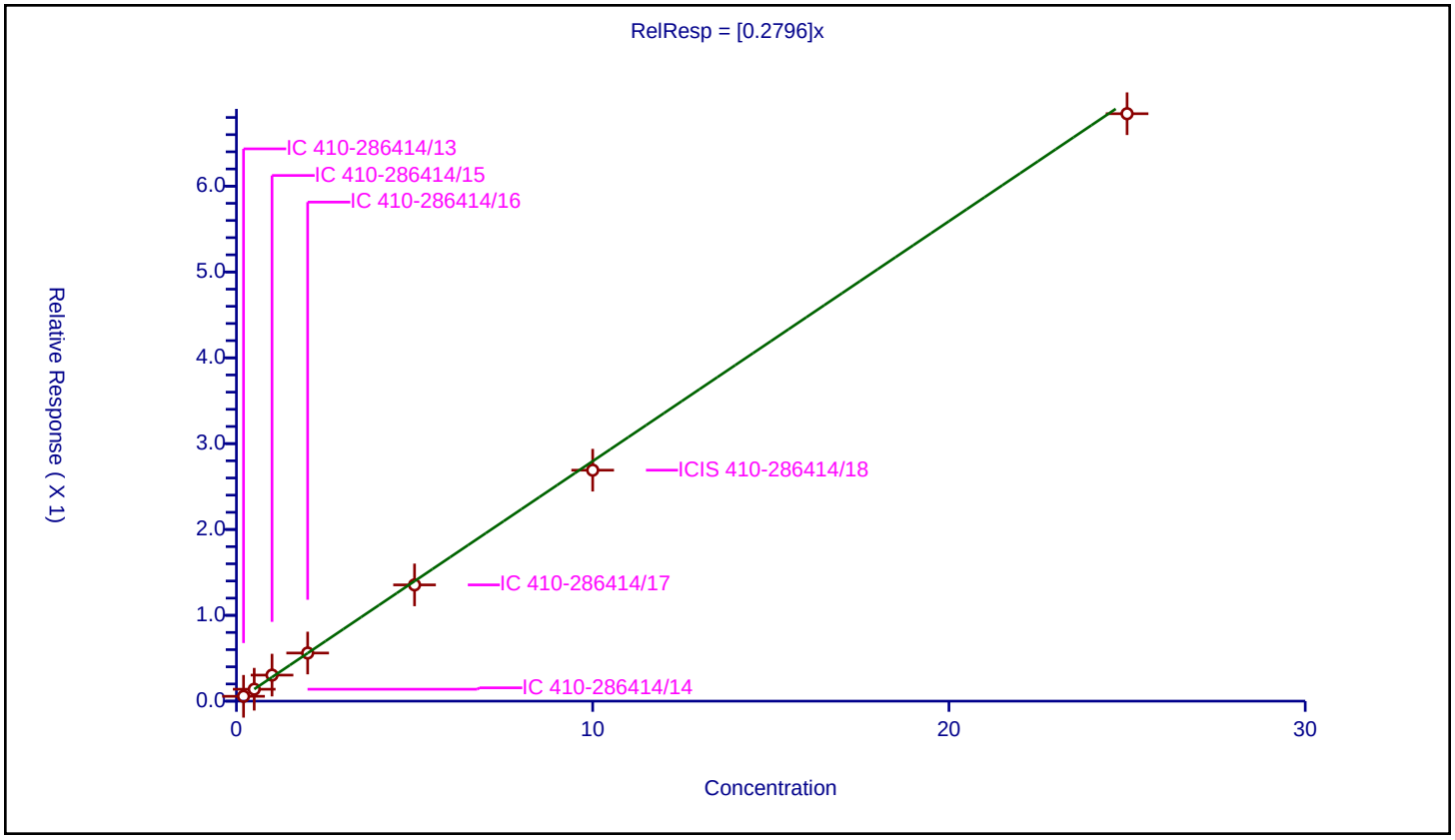
Curve Coefficients

Intercept:	0
Slope:	0.2796

Error Coefficients

Standard Error:	728000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.056448	10.0	2204666.0	0.282242	Y
2	IC 410-286414/14	0.5	0.138712	10.0	2229222.0	0.277424	Y
3	IC 410-286414/15	1.0	0.303327	10.0	2229967.0	0.303327	Y
4	IC 410-286414/16	2.0	0.560451	10.0	2244586.0	0.280225	Y
5	IC 410-286414/17	5.0	1.354322	10.0	2296832.0	0.270864	Y
6	ICIS 410-286414/18	10.0	2.690779	10.0	2328270.0	0.269078	Y
7	IC 410-286414/19	25.0	6.843911	10.0	2388919.0	0.273756	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

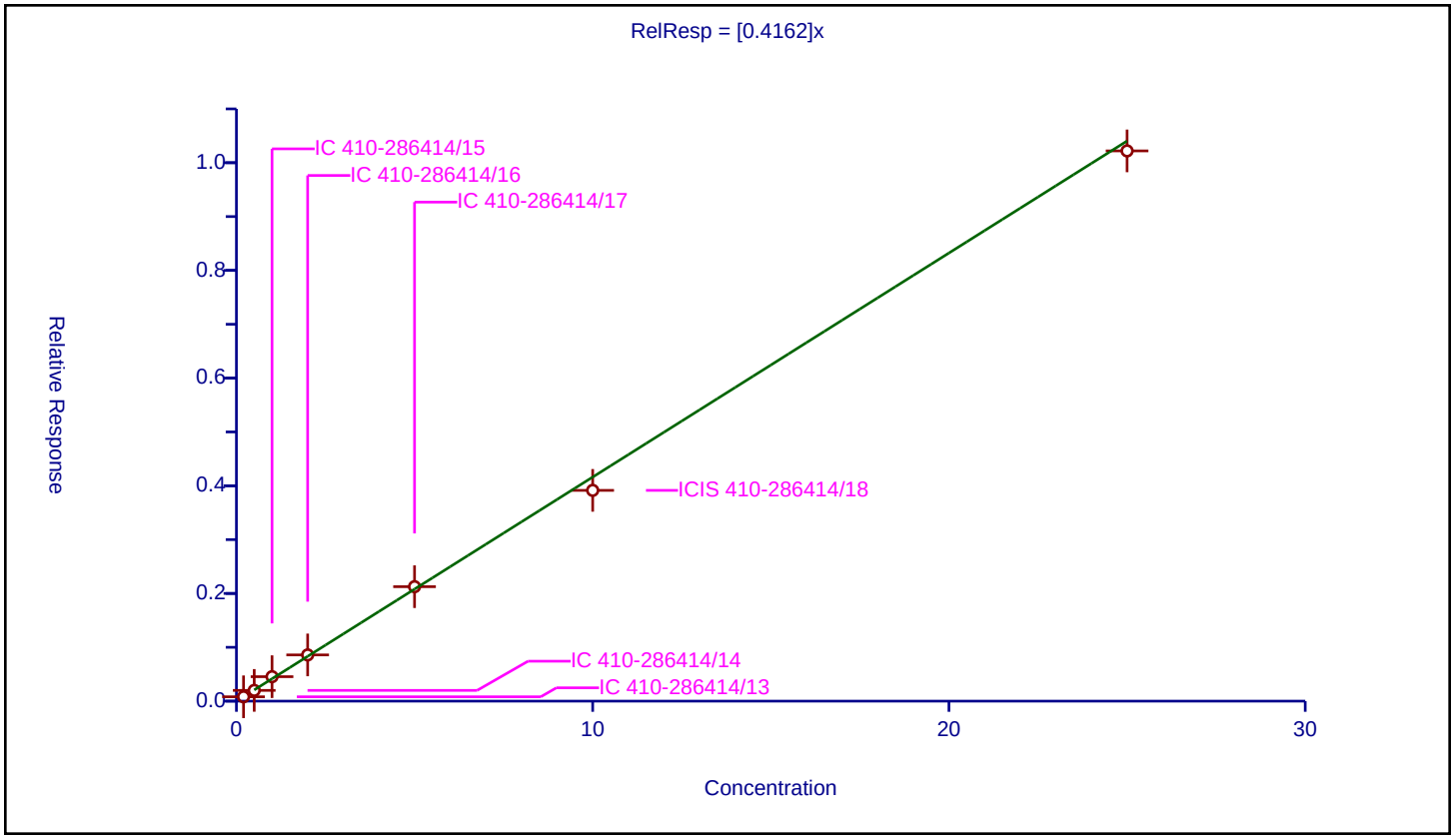
Curve Coefficients

Intercept:	0
Slope:	0.4162

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	5.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.080906	10.0	2204666.0	0.404528	Y
2	IC 410-286414/14	0.5	0.199837	10.0	2229222.0	0.399673	Y
3	IC 410-286414/15	1.0	0.454217	10.0	2229967.0	0.454217	Y
4	IC 410-286414/16	2.0	0.858501	10.0	2244586.0	0.429251	Y
5	IC 410-286414/17	5.0	2.125767	10.0	2296832.0	0.425153	Y
6	ICIS 410-286414/18	10.0	3.914834	10.0	2328270.0	0.391483	Y
7	IC 410-286414/19	25.0	10.220058	10.0	2388919.0	0.408802	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

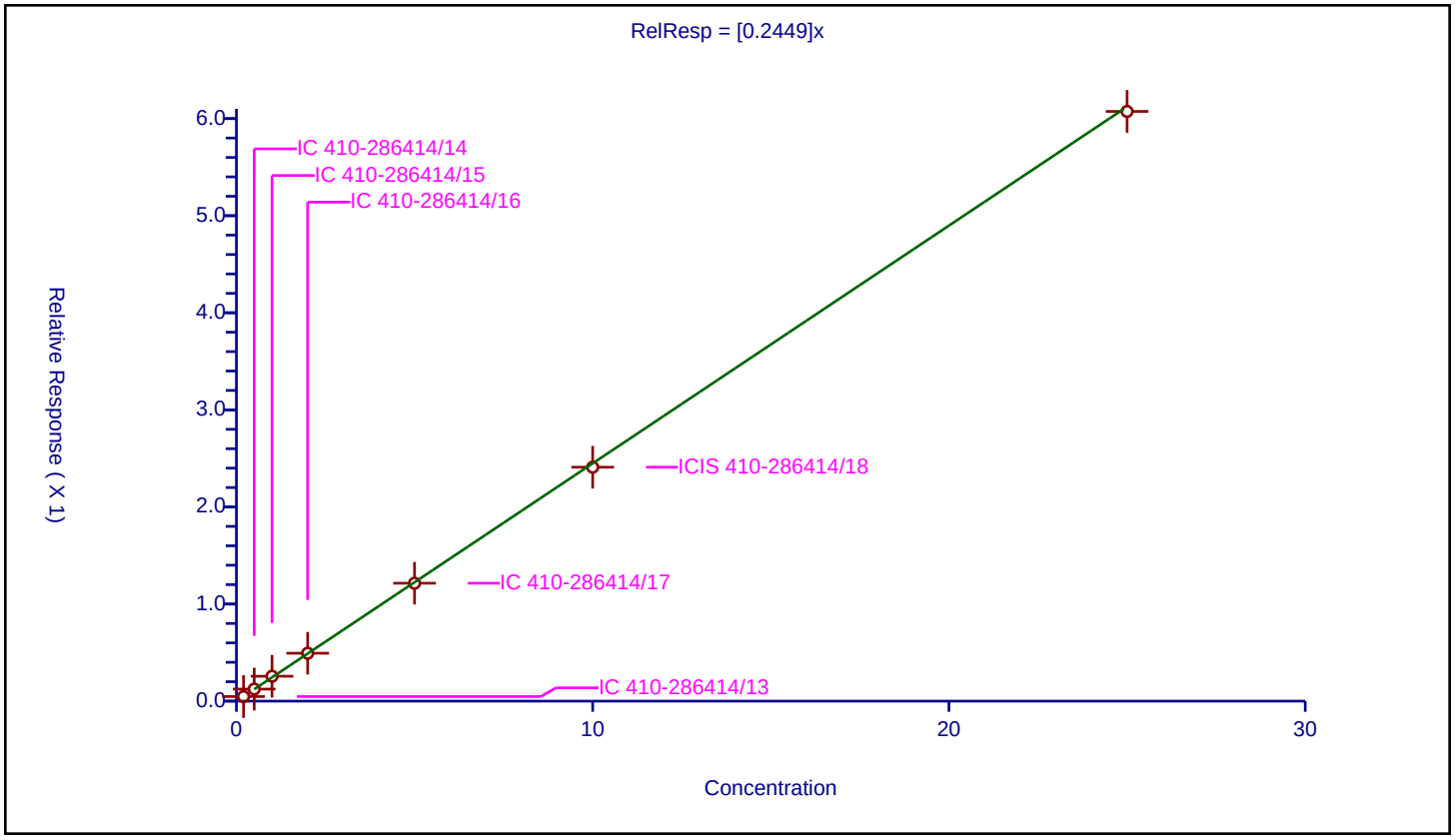
Curve Coefficients

Intercept:	0
Slope:	0.2449

Error Coefficients

Standard Error:	647000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.0472	10.0	2204666.0	0.235999	Y
2	IC 410-286414/14	0.5	0.124232	10.0	2229222.0	0.248463	Y
3	IC 410-286414/15	1.0	0.256246	10.0	2229967.0	0.256246	Y
4	IC 410-286414/16	2.0	0.493352	10.0	2244586.0	0.246676	Y
5	IC 410-286414/17	5.0	1.214547	10.0	2296832.0	0.242909	Y
6	ICIS 410-286414/18	10.0	2.409484	10.0	2328270.0	0.240948	Y
7	IC 410-286414/19	25.0	6.07381	10.0	2388919.0	0.242952	Y



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Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

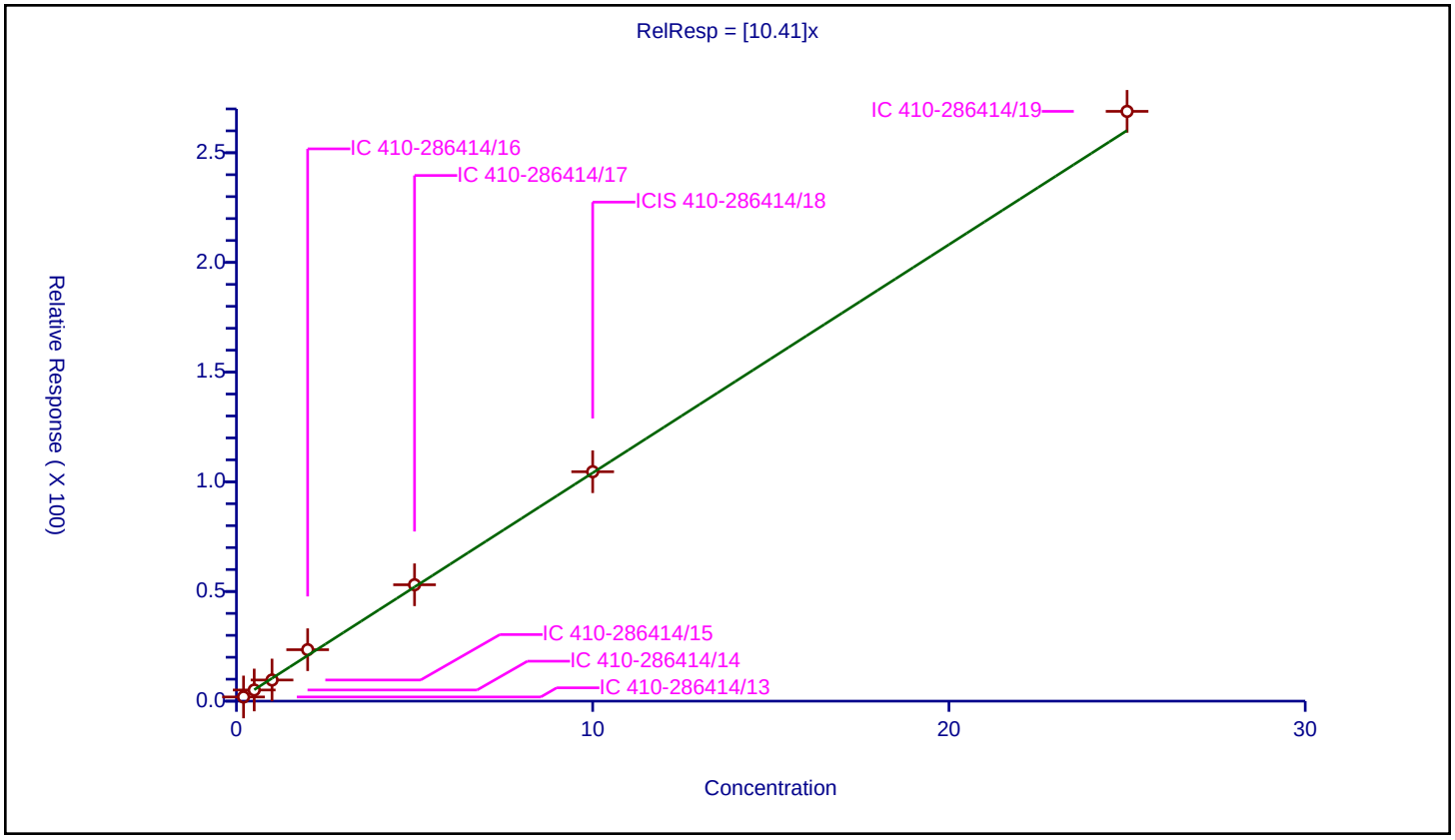
Curve Coefficients

Intercept:	0
Slope:	10.41

Error Coefficients

Standard Error:	345000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	1.898558	50.0	133180.0	9.492792	Y
2	IC 410-286414/14	0.5	5.084153	50.0	128635.0	10.168306	Y
3	IC 410-286414/15	1.0	9.637952	50.0	136943.0	9.637952	Y
4	IC 410-286414/16	2.0	23.44877	50.0	124917.0	11.724385	Y
5	IC 410-286414/17	5.0	53.053893	50.0	141819.0	10.610779	Y
6	ICIS 410-286414/18	10.0	104.585625	50.0	142576.0	10.458562	Y
7	IC 410-286414/19	25.0	268.876788	50.0	143695.0	10.755072	Y



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Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

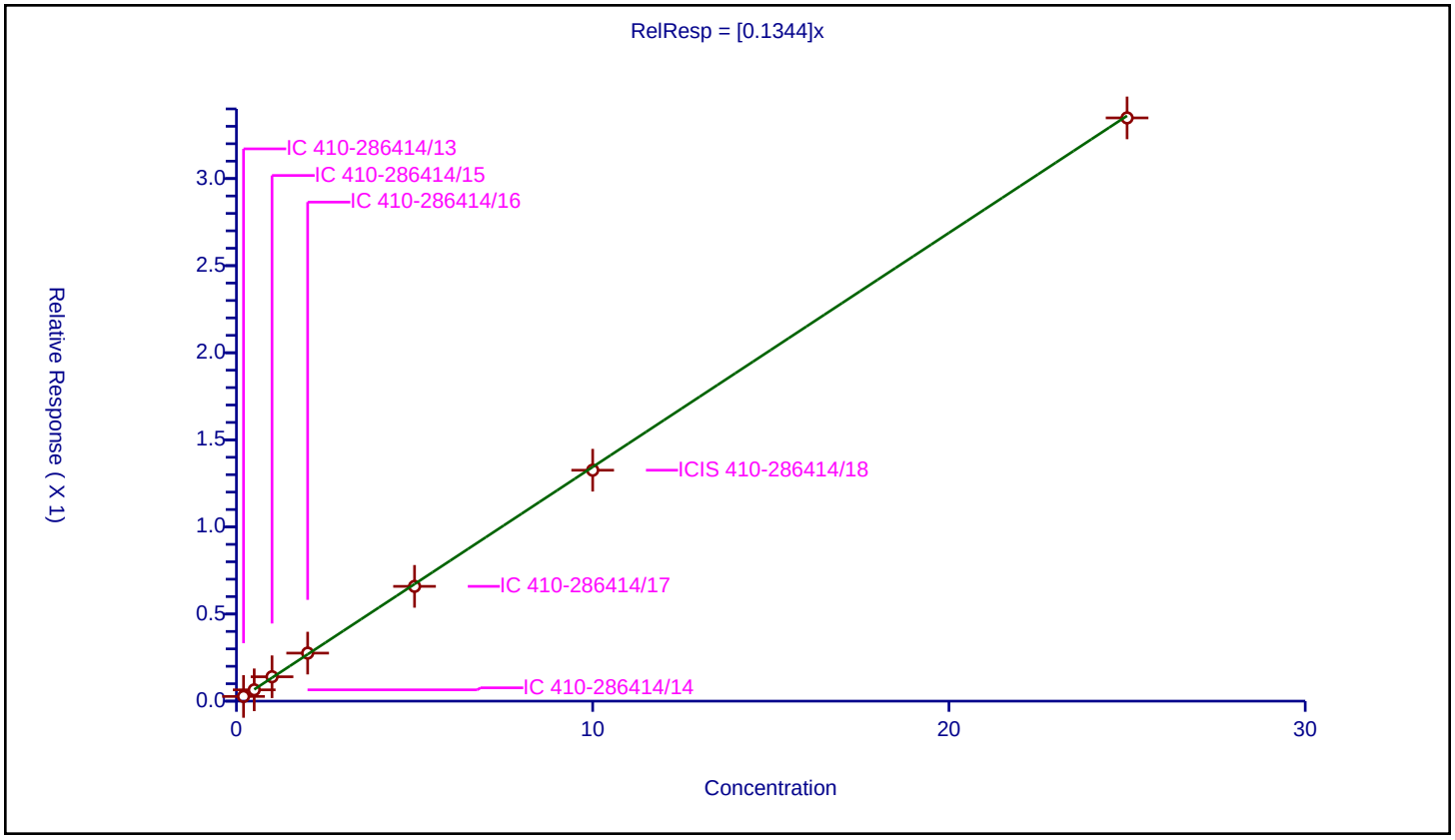
Curve Coefficients

Intercept:	0
Slope:	0.1344

Error Coefficients

Standard Error:	357000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.02697	10.0	2204666.0	0.13485	Y
2	IC 410-286414/14	0.5	0.06496	10.0	2229222.0	0.12992	Y
3	IC 410-286414/15	1.0	0.139966	10.0	2229967.0	0.139966	Y
4	IC 410-286414/16	2.0	0.27573	10.0	2244586.0	0.137865	Y
5	IC 410-286414/17	5.0	0.658995	10.0	2296832.0	0.131799	Y
6	ICIS 410-286414/18	10.0	1.325783	10.0	2328270.0	0.132578	Y
7	IC 410-286414/19	25.0	3.34833	10.0	2388919.0	0.133933	Y



Calibration / 1,4-Dioxane

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

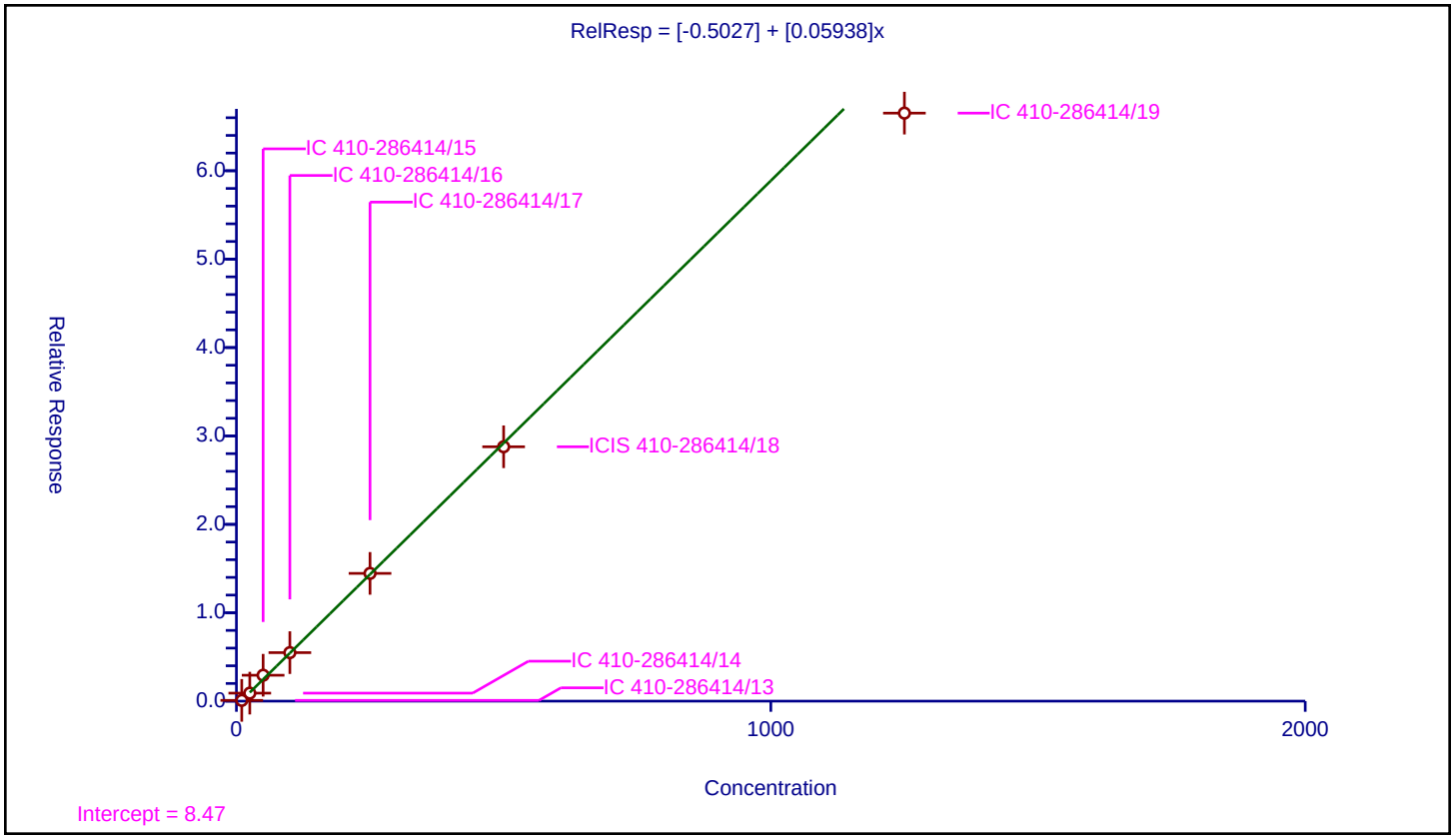
Curve Coefficients

Intercept:	-0.5027
Slope:	0.05938

Error Coefficients

Standard Error:	95100
Relative Standard Error:	8.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	10.0	0.084472	50.0	133180.0	0.008447	Y
2	IC 410-286414/14	25.0	0.906829	50.0	128635.0	0.036273	Y
3	IC 410-286414/15	50.0	2.929321	50.0	136943.0	0.058586	Y
4	IC 410-286414/16	100.0	5.488044	50.0	124917.0	0.05488	Y
5	IC 410-286414/17	250.0	14.452224	50.0	141819.0	0.057809	Y
6	ICIS 410-286414/18	500.0	28.776582	50.0	142576.0	0.057553	Y
7	IC 410-286414/19	1250.0	66.5218	50.0	143695.0	0.053217	Y



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Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

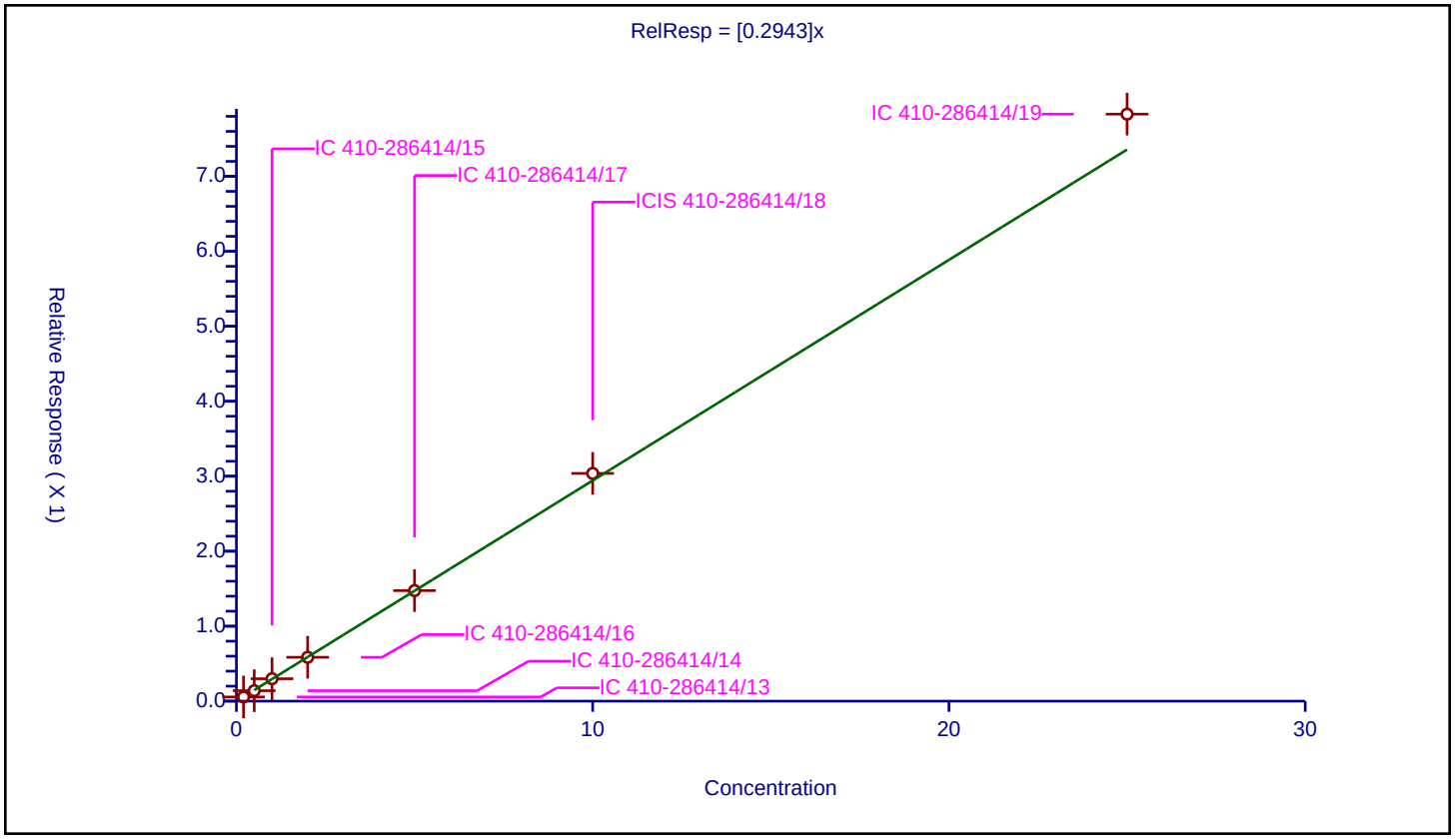
Curve Coefficients

Intercept:	0
Slope:	0.2943

Error Coefficients

Standard Error:	830000
Relative Standard Error:	4.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.055537	10.0	2204666.0	0.277684	Y
2	IC 410-286414/14	0.5	0.139448	10.0	2229222.0	0.278896	Y
3	IC 410-286414/15	1.0	0.299139	10.0	2229967.0	0.299139	Y
4	IC 410-286414/16	2.0	0.584865	10.0	2244586.0	0.292433	Y
5	IC 410-286414/17	5.0	1.474561	10.0	2296832.0	0.294912	Y
6	ICIS 410-286414/18	10.0	3.037642	10.0	2328270.0	0.303764	Y
7	IC 410-286414/19	25.0	7.829876	10.0	2388919.0	0.313195	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

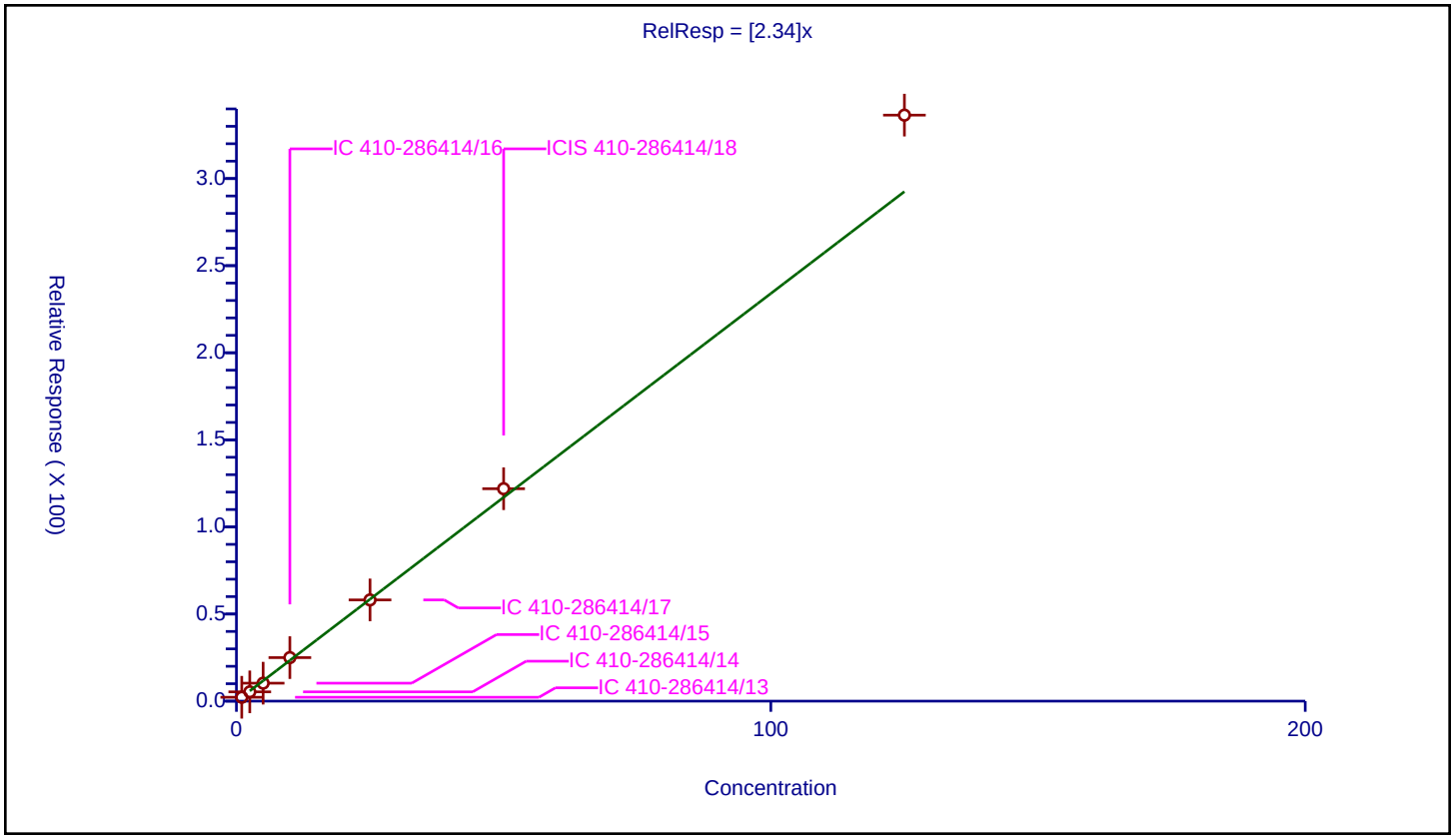
Curve Coefficients

Intercept:	0
Slope:	2.34

Error Coefficients

Standard Error:	426000
Relative Standard Error:	9.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	1.0	2.231566	50.0	133180.0	2.231566	Y
2	IC 410-286414/14	2.5	5.334474	50.0	128635.0	2.133789	Y
3	IC 410-286414/15	5.0	10.306843	50.0	136943.0	2.061369	Y
4	IC 410-286414/16	10.0	24.994196	50.0	124917.0	2.49942	Y
5	IC 410-286414/17	25.0	58.107165	50.0	141819.0	2.324287	Y
6	ICIS 410-286414/18	50.0	121.94093	50.0	142576.0	2.438819	Y
7	IC 410-286414/19	125.0	336.4195	50.0	143695.0	2.691356	Y



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Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

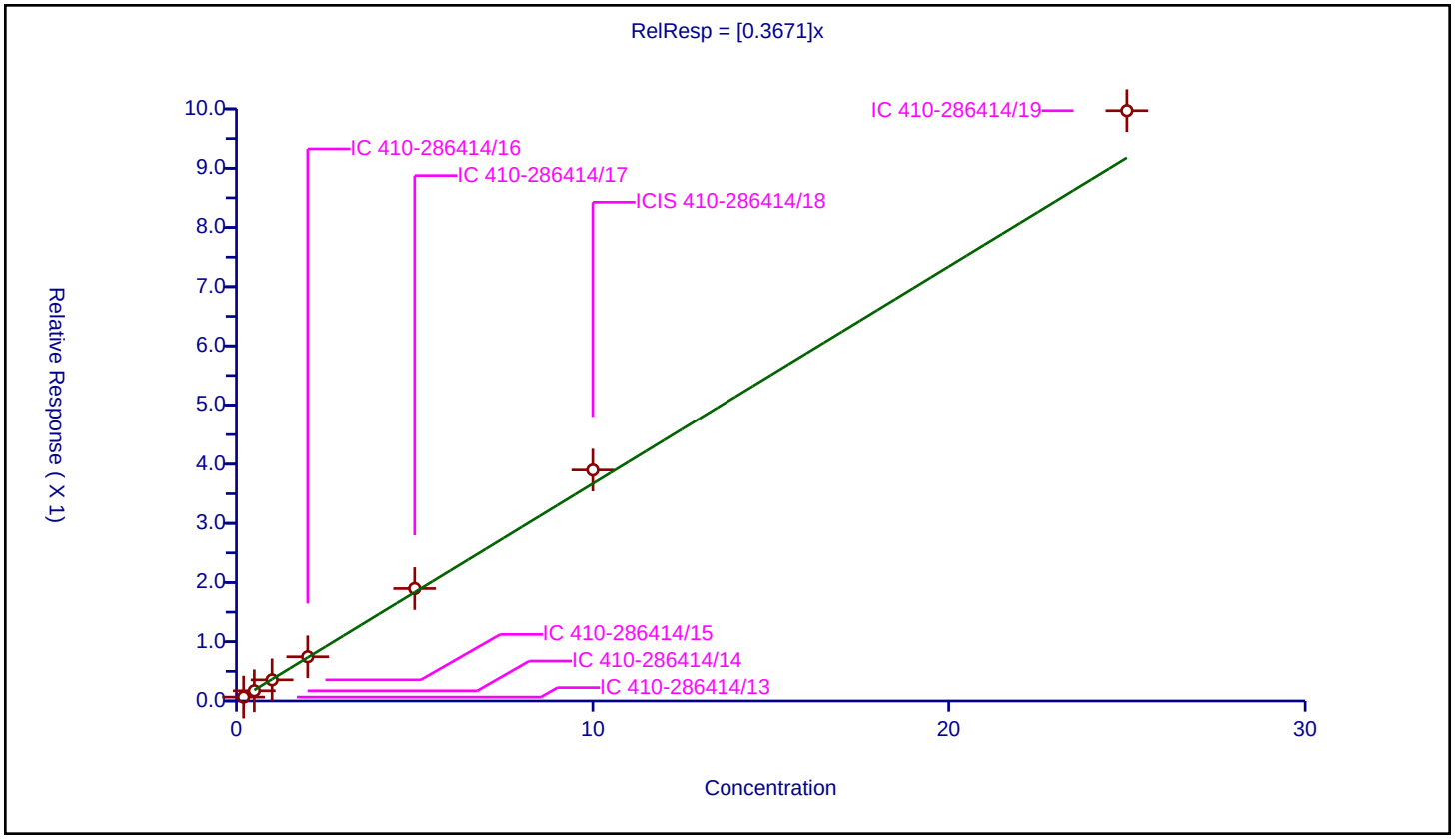
Curve Coefficients

Intercept:	0
Slope:	0.3671

Error Coefficients

Standard Error:	1060000
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.065588	10.0	2204666.0	0.327941	Y
2	IC 410-286414/14	0.5	0.171876	10.0	2229222.0	0.343752	Y
3	IC 410-286414/15	1.0	0.356194	10.0	2229967.0	0.356194	Y
4	IC 410-286414/16	2.0	0.746155	10.0	2244586.0	0.373078	Y
5	IC 410-286414/17	5.0	1.898498	10.0	2296832.0	0.3797	Y
6	ICIS 410-286414/18	10.0	3.900776	10.0	2328270.0	0.390078	Y
7	IC 410-286414/19	25.0	9.97048	10.0	2388919.0	0.398819	Y



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Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

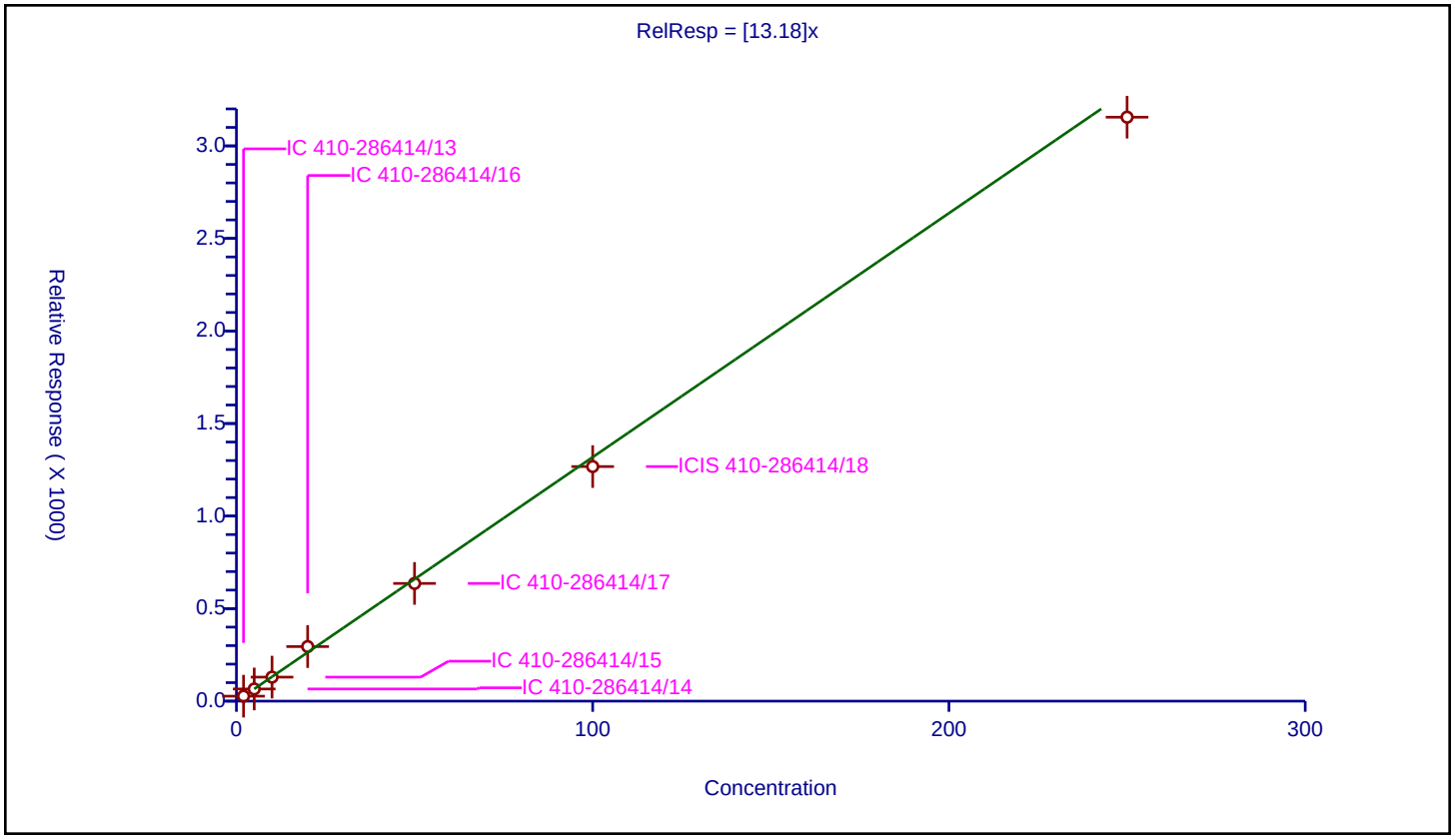
Curve Coefficients

Intercept:	0
Slope:	13.18

Error Coefficients

Standard Error:	4070000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	2.0	26.828353	50.0	133180.0	13.414176	Y
2	IC 410-286414/14	5.0	65.659035	50.0	128635.0	13.131807	Y
3	IC 410-286414/15	10.0	129.708346	50.0	136943.0	12.970835	Y
4	IC 410-286414/16	20.0	294.824163	50.0	124917.0	14.741208	Y
5	IC 410-286414/17	50.0	635.980369	50.0	141819.0	12.719607	Y
6	ICIS 410-286414/18	100.0	1267.501543	50.0	142576.0	12.675015	Y
7	IC 410-286414/19	250.0	3155.290372	50.0	143695.0	12.621161	Y



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Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

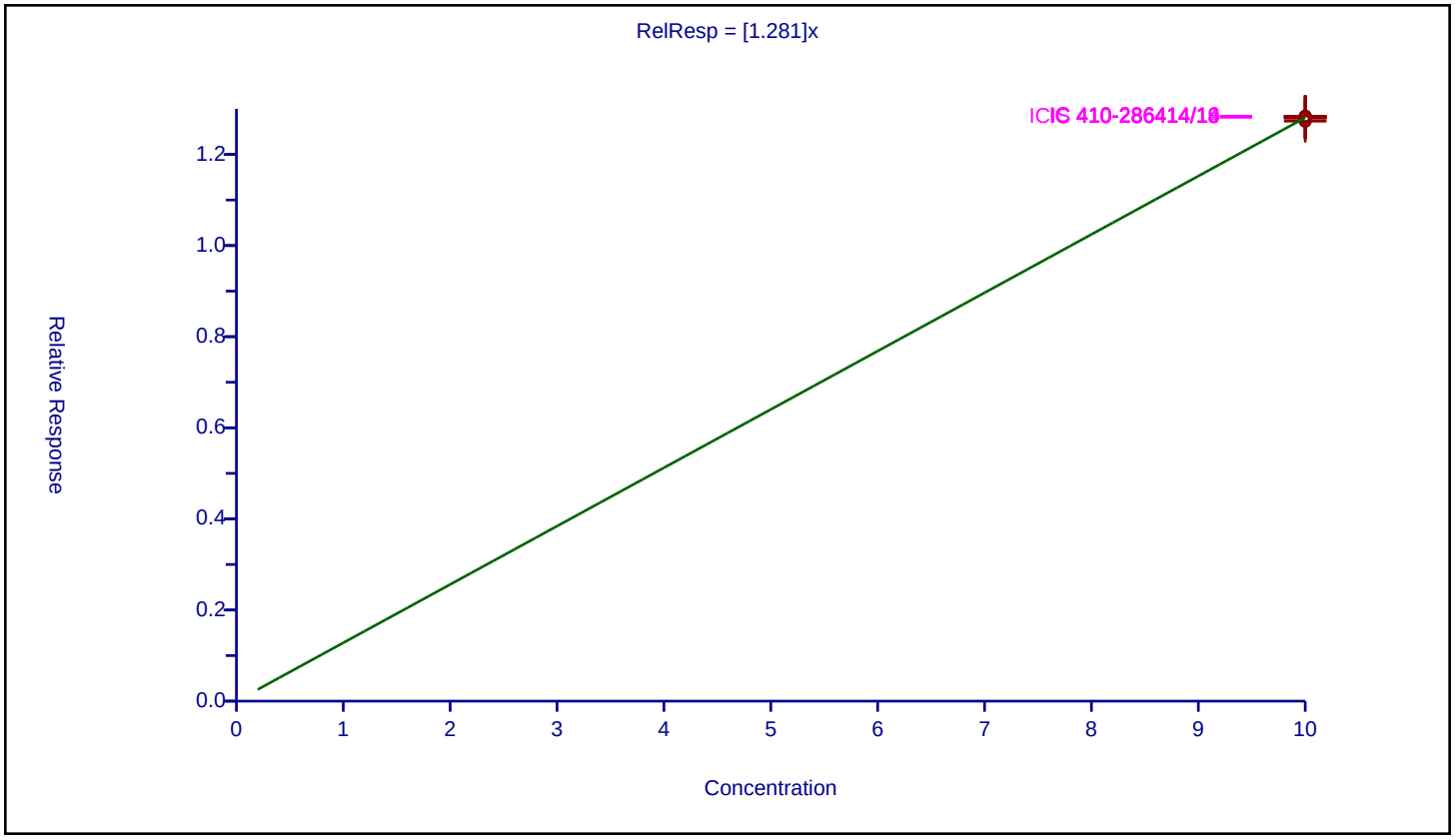
Curve Coefficients

Intercept:	0
Slope:	1.281

Error Coefficients

Standard Error:	2490000
Relative Standard Error:	0.3
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	10.0	12.730492	10.0	1741668.0	1.273049	Y
2	IC 410-286414/14	10.0	12.82361	10.0	1755239.0	1.282361	Y
3	IC 410-286414/15	10.0	12.8019	10.0	1766319.0	1.28019	Y
4	IC 410-286414/16	10.0	12.838891	10.0	1767884.0	1.283889	Y
5	IC 410-286414/17	10.0	12.79785	10.0	1816359.0	1.279785	Y
6	ICIS 410-286414/18	10.0	12.818966	10.0	1837007.0	1.281897	Y
7	IC 410-286414/19	10.0	12.832365	10.0	1887193.0	1.283237	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

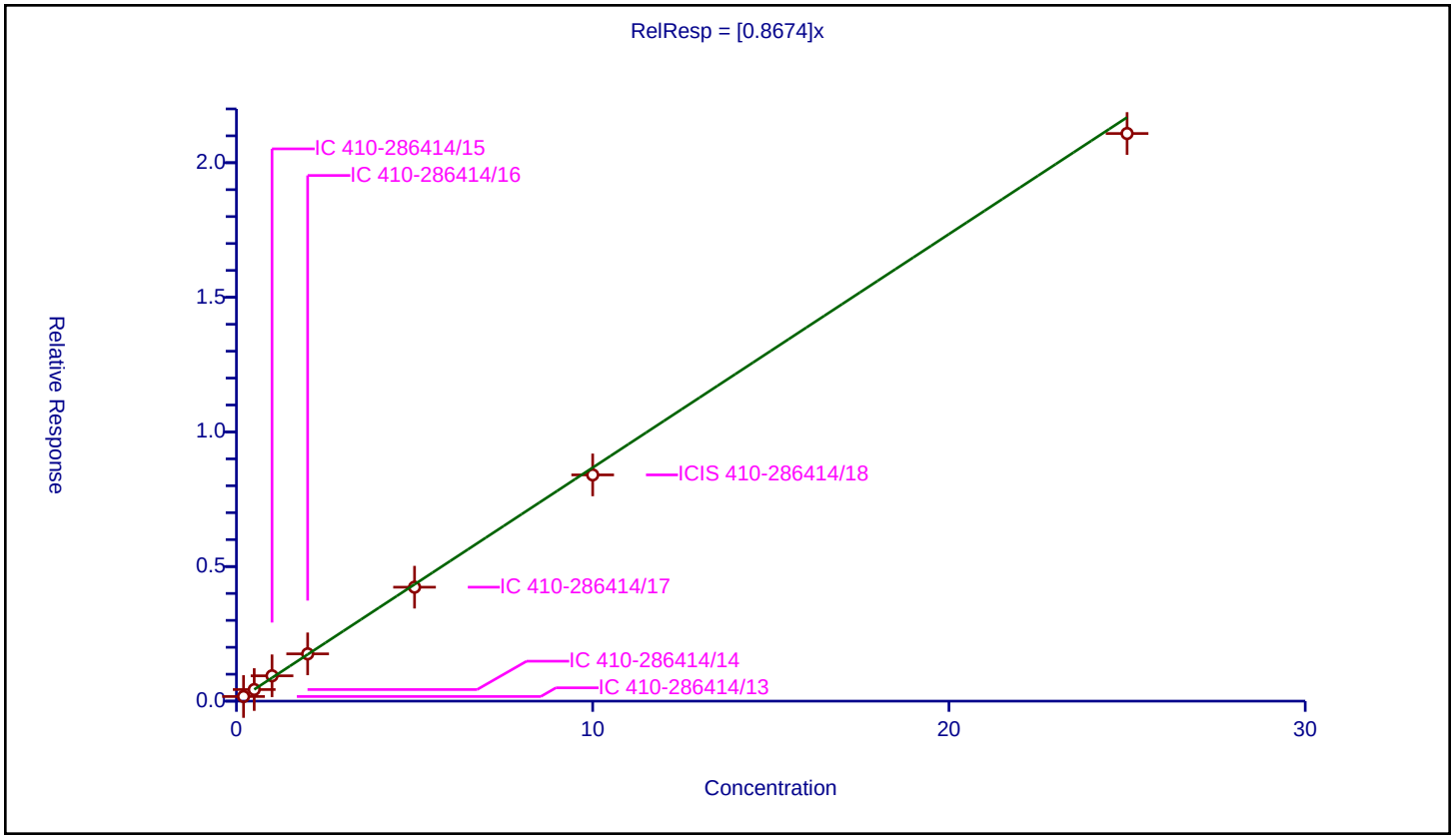
Curve Coefficients

Intercept:	0
Slope:	0.8674

Error Coefficients

Standard Error:	1780000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.172053	10.0	1741668.0	0.860267	Y
2	IC 410-286414/14	0.5	0.430847	10.0	1755239.0	0.861695	Y
3	IC 410-286414/15	1.0	0.94141	10.0	1766319.0	0.94141	Y
4	IC 410-286414/16	2.0	1.756162	10.0	1767884.0	0.878081	Y
5	IC 410-286414/17	5.0	4.233337	10.0	1816359.0	0.846667	Y
6	ICIS 410-286414/18	10.0	8.40459	10.0	1837007.0	0.840459	Y
7	IC 410-286414/19	25.0	21.086169	10.0	1887193.0	0.843447	Y



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Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

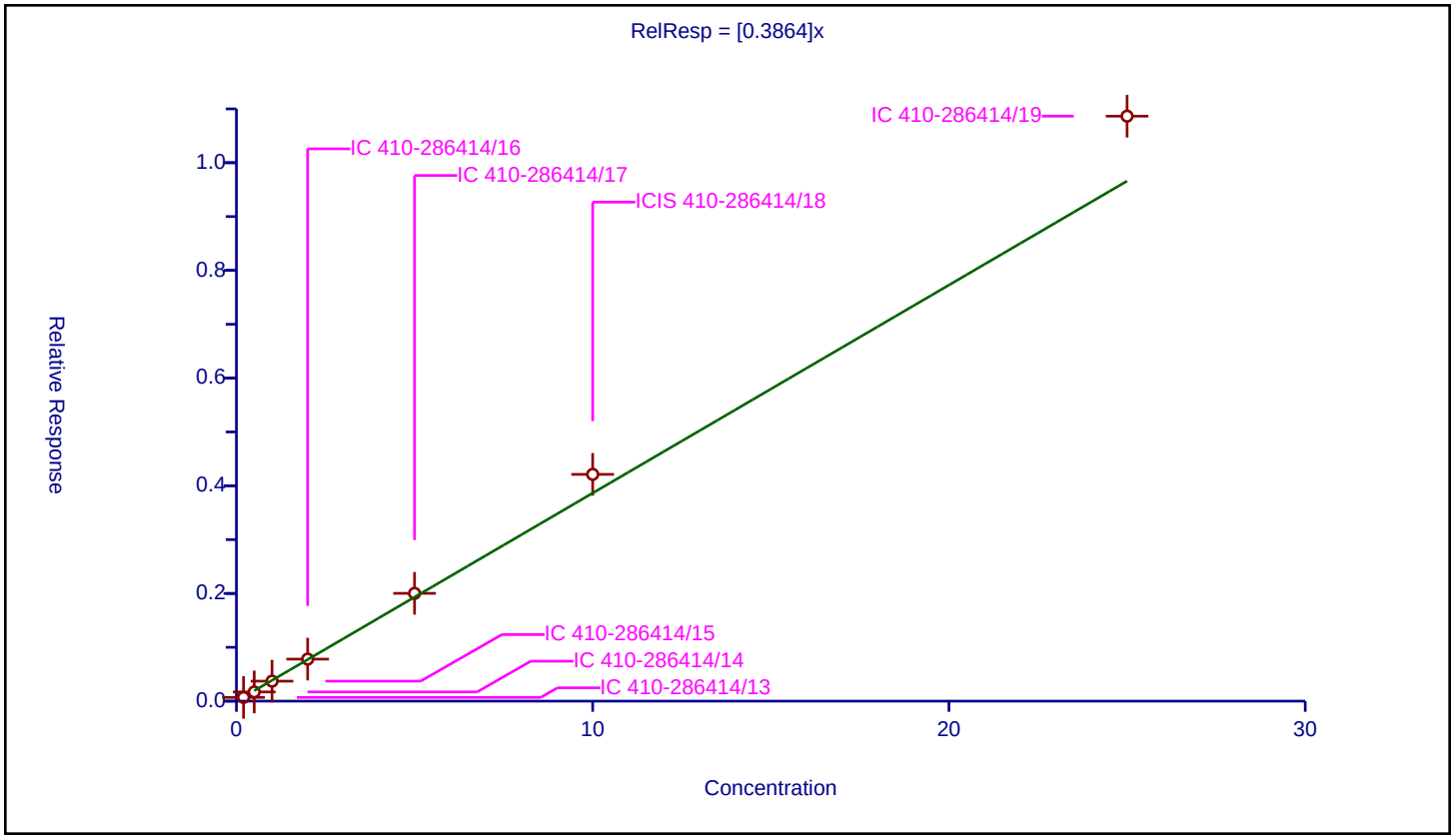
Curve Coefficients

Intercept:	0
Slope:	0.3864

Error Coefficients

Standard Error:	909000
Relative Standard Error:	9.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.069014	10.0	1741668.0	0.345072	Y
2	IC 410-286414/14	0.5	0.171139	10.0	1755239.0	0.342278	Y
3	IC 410-286414/15	1.0	0.371145	10.0	1766319.0	0.371145	Y
4	IC 410-286414/16	2.0	0.780204	10.0	1767884.0	0.390102	Y
5	IC 410-286414/17	5.0	2.002115	10.0	1816359.0	0.400423	Y
6	ICIS 410-286414/18	10.0	4.211867	10.0	1837007.0	0.421187	Y
7	IC 410-286414/19	25.0	10.865089	10.0	1887193.0	0.434604	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

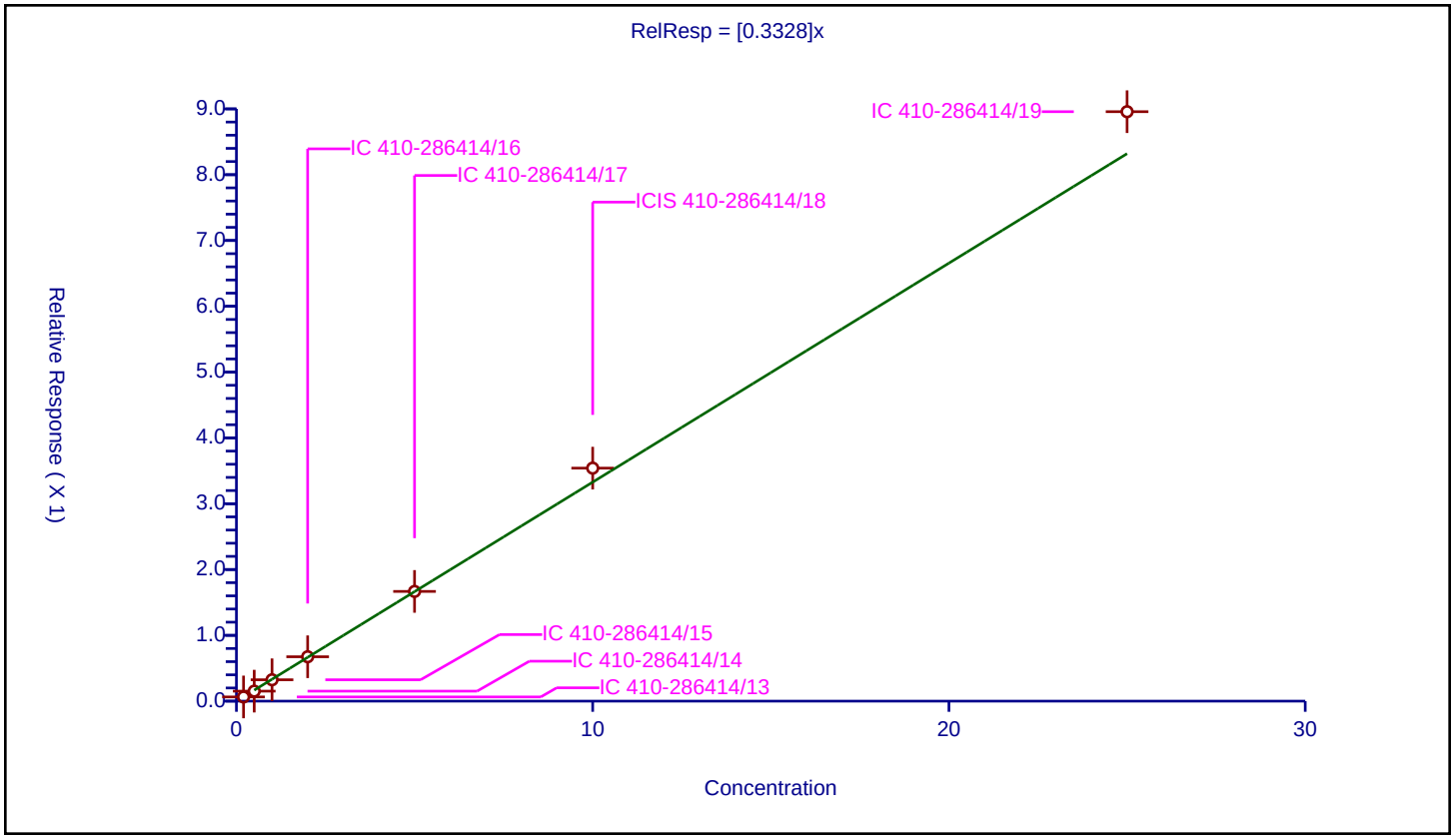
Curve Coefficients

Intercept:	0
Slope:	0.3328

Error Coefficients

Standard Error:	752000
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.06356	10.0	1741668.0	0.317799	Y
2	IC 410-286414/14	0.5	0.151962	10.0	1755239.0	0.303924	Y
3	IC 410-286414/15	1.0	0.32467	10.0	1766319.0	0.32467	Y
4	IC 410-286414/16	2.0	0.674671	10.0	1767884.0	0.337335	Y
5	IC 410-286414/17	5.0	1.667495	10.0	1816359.0	0.333499	Y
6	ICIS 410-286414/18	10.0	3.540966	10.0	1837007.0	0.354097	Y
7	IC 410-286414/19	25.0	8.957468	10.0	1887193.0	0.358299	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

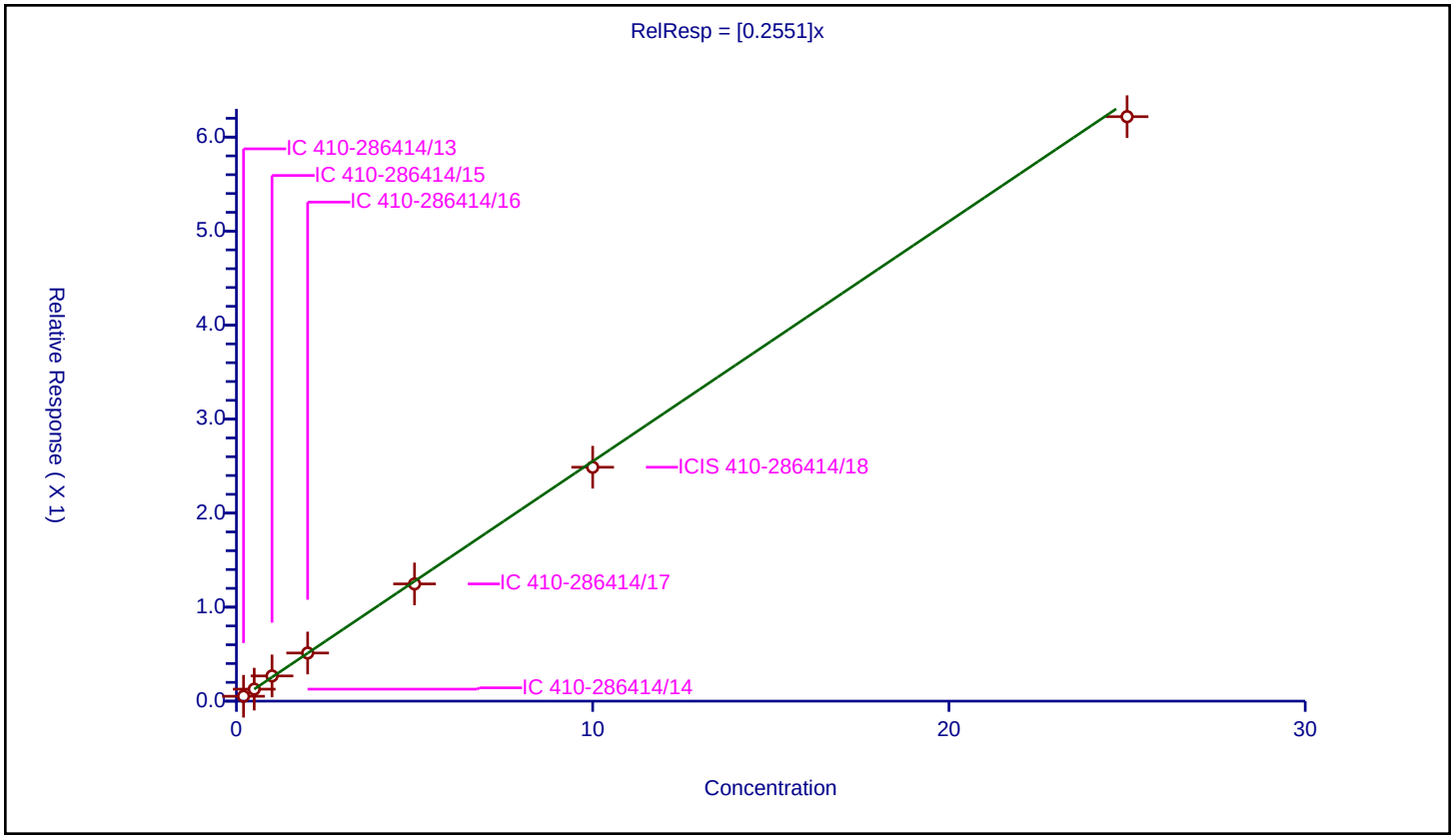
Curve Coefficients

Intercept:	0
Slope:	0.2551

Error Coefficients

Standard Error:	524000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.051921	10.0	1741668.0	0.259607	Y
2	IC 410-286414/14	0.5	0.127538	10.0	1755239.0	0.255076	Y
3	IC 410-286414/15	1.0	0.268168	10.0	1766319.0	0.268168	Y
4	IC 410-286414/16	2.0	0.512058	10.0	1767884.0	0.256029	Y
5	IC 410-286414/17	5.0	1.246978	10.0	1816359.0	0.249396	Y
6	ICIS 410-286414/18	10.0	2.488151	10.0	1837007.0	0.248815	Y
7	IC 410-286414/19	25.0	6.217387	10.0	1887193.0	0.248695	Y



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Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

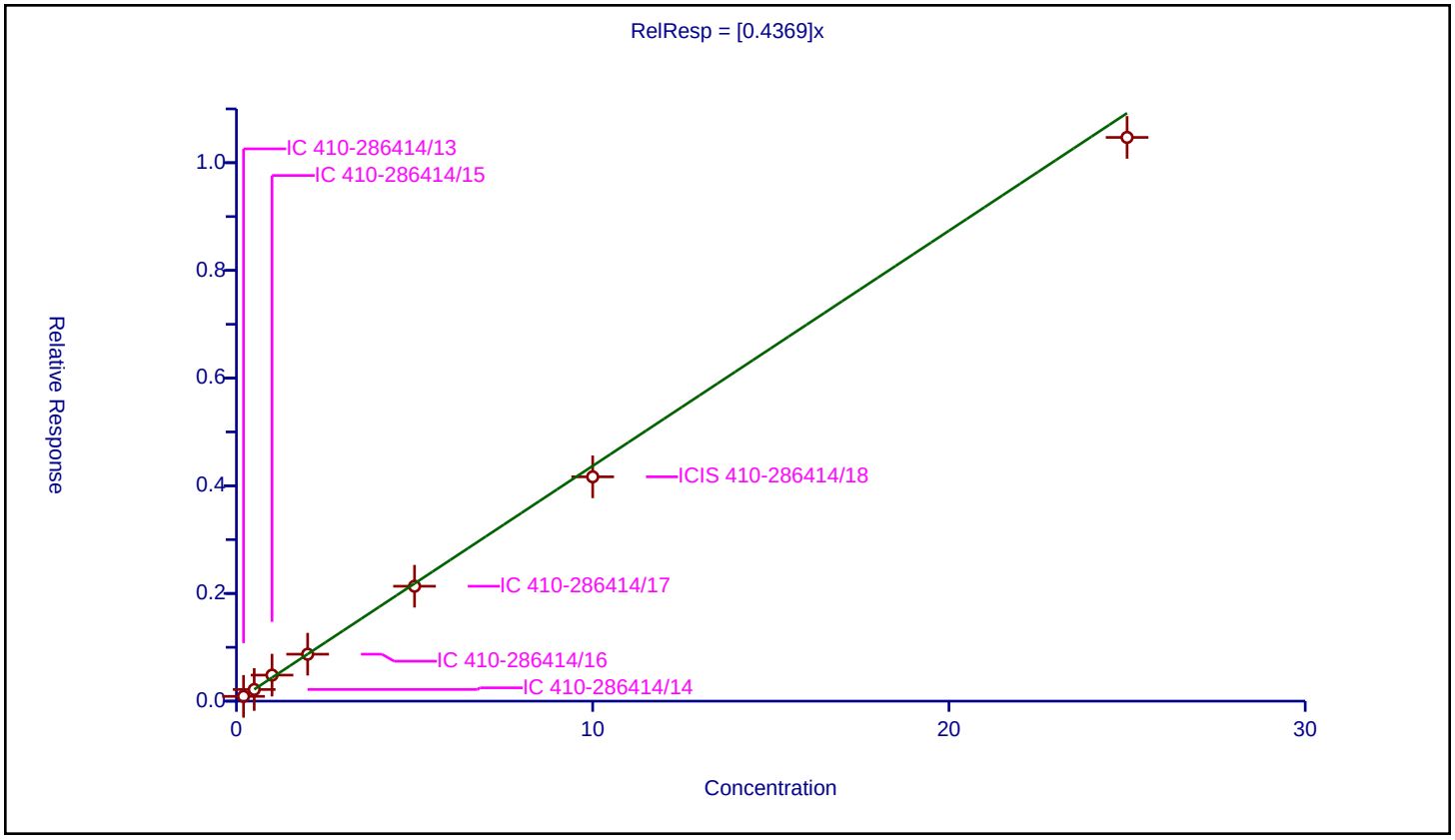
Curve Coefficients

Intercept:	0
Slope:	0.4369

Error Coefficients

Standard Error:	883000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.08872	10.0	1741668.0	0.443598	Y
2	IC 410-286414/14	0.5	0.216443	10.0	1755239.0	0.432887	Y
3	IC 410-286414/15	1.0	0.483322	10.0	1766319.0	0.483322	Y
4	IC 410-286414/16	2.0	0.871828	10.0	1767884.0	0.435914	Y
5	IC 410-286414/17	5.0	2.134369	10.0	1816359.0	0.426874	Y
6	ICIS 410-286414/18	10.0	4.166402	10.0	1837007.0	0.41664	Y
7	IC 410-286414/19	25.0	10.470164	10.0	1887193.0	0.418807	Y



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Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

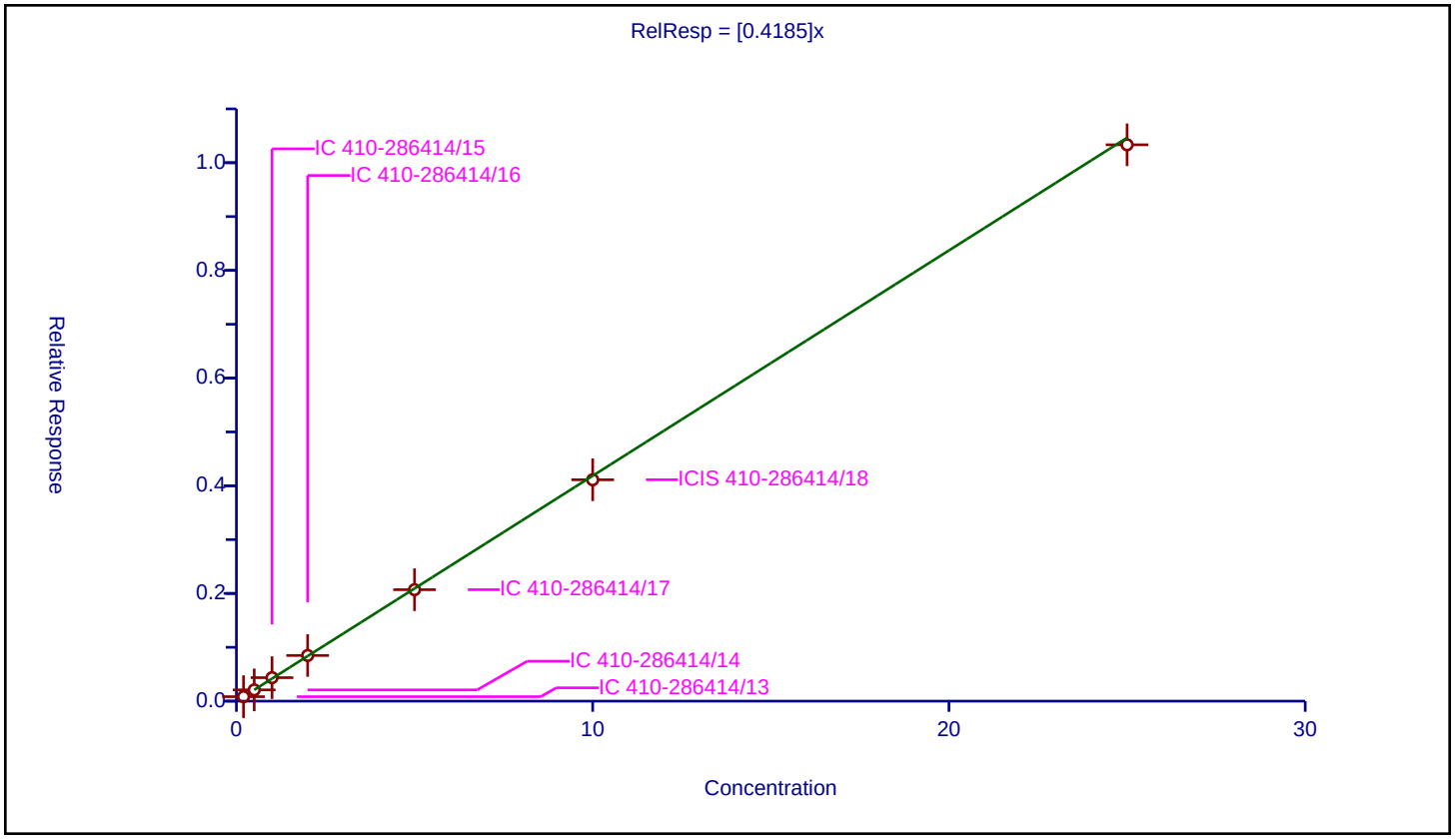
Curve Coefficients

Intercept:	0
Slope:	0.4185

Error Coefficients

Standard Error:	870000
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.082679	10.0	1741668.0	0.413397	Y
2	IC 410-286414/14	0.5	0.208935	10.0	1755239.0	0.417869	Y
3	IC 410-286414/15	1.0	0.436071	10.0	1766319.0	0.436071	Y
4	IC 410-286414/16	2.0	0.847957	10.0	1767884.0	0.423979	Y
5	IC 410-286414/17	5.0	2.070053	10.0	1816359.0	0.414011	Y
6	ICIS 410-286414/18	10.0	4.111498	10.0	1837007.0	0.41115	Y
7	IC 410-286414/19	25.0	10.333246	10.0	1887193.0	0.41333	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

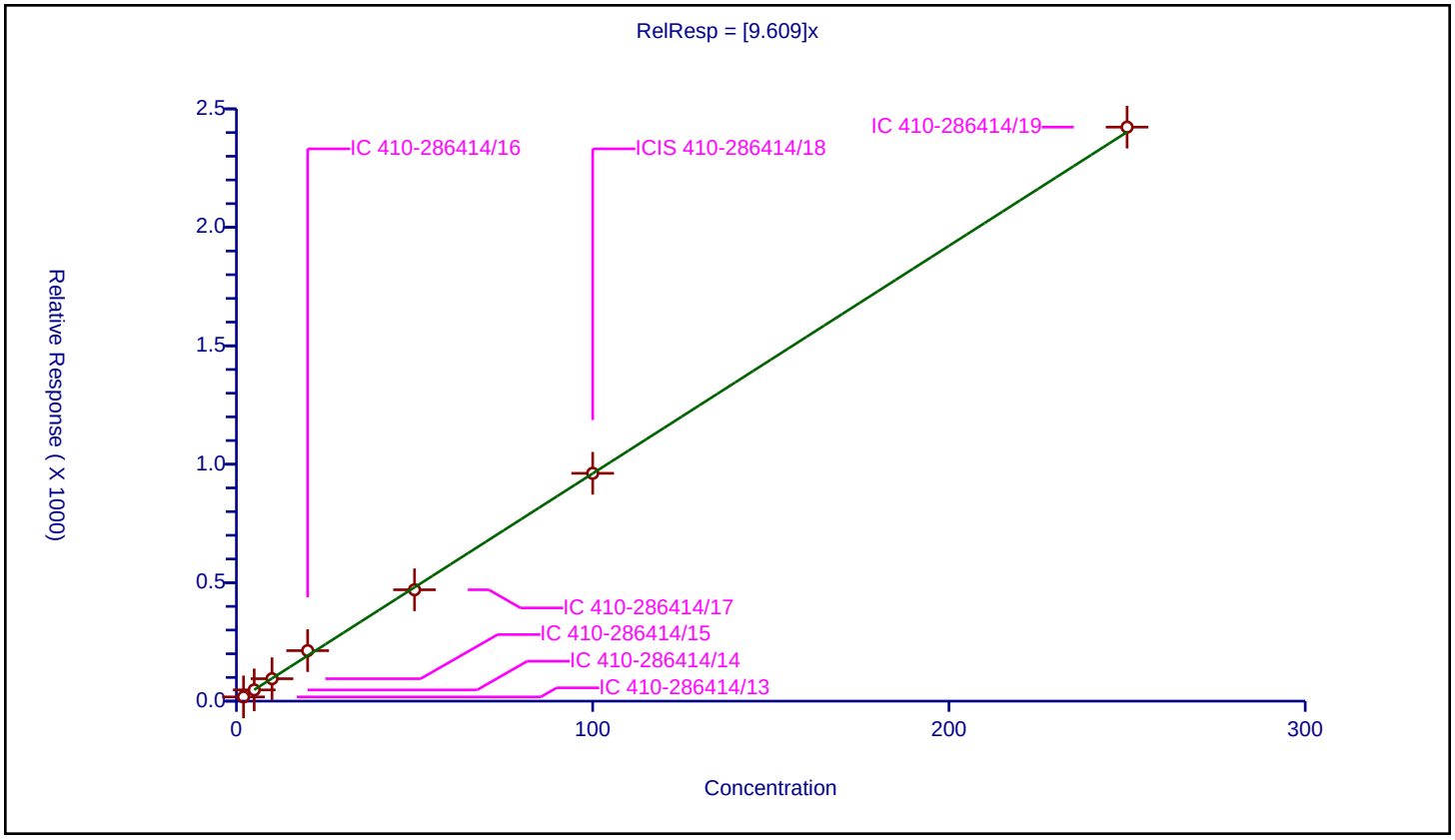
Curve Coefficients

Intercept:	0
Slope:	9.609

Error Coefficients

Standard Error:	3110000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	2.0	17.842769	50.0	133180.0	8.921385	Y
2	IC 410-286414/14	5.0	47.491351	50.0	128635.0	9.49827	Y
3	IC 410-286414/15	10.0	94.754752	50.0	136943.0	9.475475	Y
4	IC 410-286414/16	20.0	213.165942	50.0	124917.0	10.658297	Y
5	IC 410-286414/17	50.0	470.094628	50.0	141819.0	9.401893	Y
6	ICIS 410-286414/18	100.0	961.787047	50.0	142576.0	9.61787	Y
7	IC 410-286414/19	250.0	2422.942343	50.0	143695.0	9.691769	Y



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Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

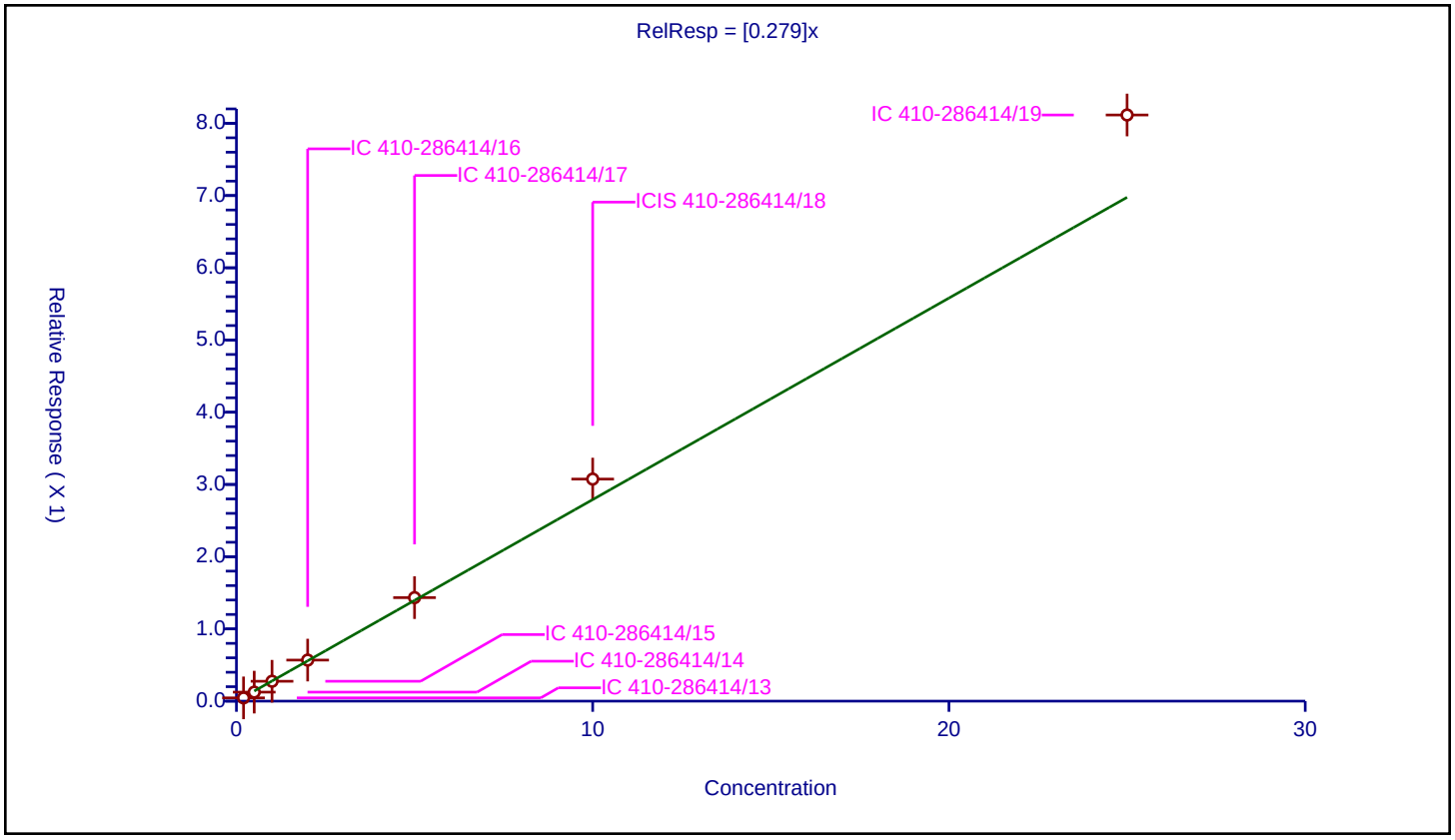
Curve Coefficients

Intercept:	0
Slope:	0.279

Error Coefficients

Standard Error:	676000
Relative Standard Error:	12.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.045164	10.0	1741668.0	0.225818	Y
2	IC 410-286414/14	0.5	0.124661	10.0	1755239.0	0.249322	Y
3	IC 410-286414/15	1.0	0.275233	10.0	1766319.0	0.275233	Y
4	IC 410-286414/16	2.0	0.568301	10.0	1767884.0	0.28415	Y
5	IC 410-286414/17	5.0	1.433224	10.0	1816359.0	0.286645	Y
6	ICIS 410-286414/18	10.0	3.074381	10.0	1837007.0	0.307438	Y
7	IC 410-286414/19	25.0	8.115635	10.0	1887193.0	0.324625	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

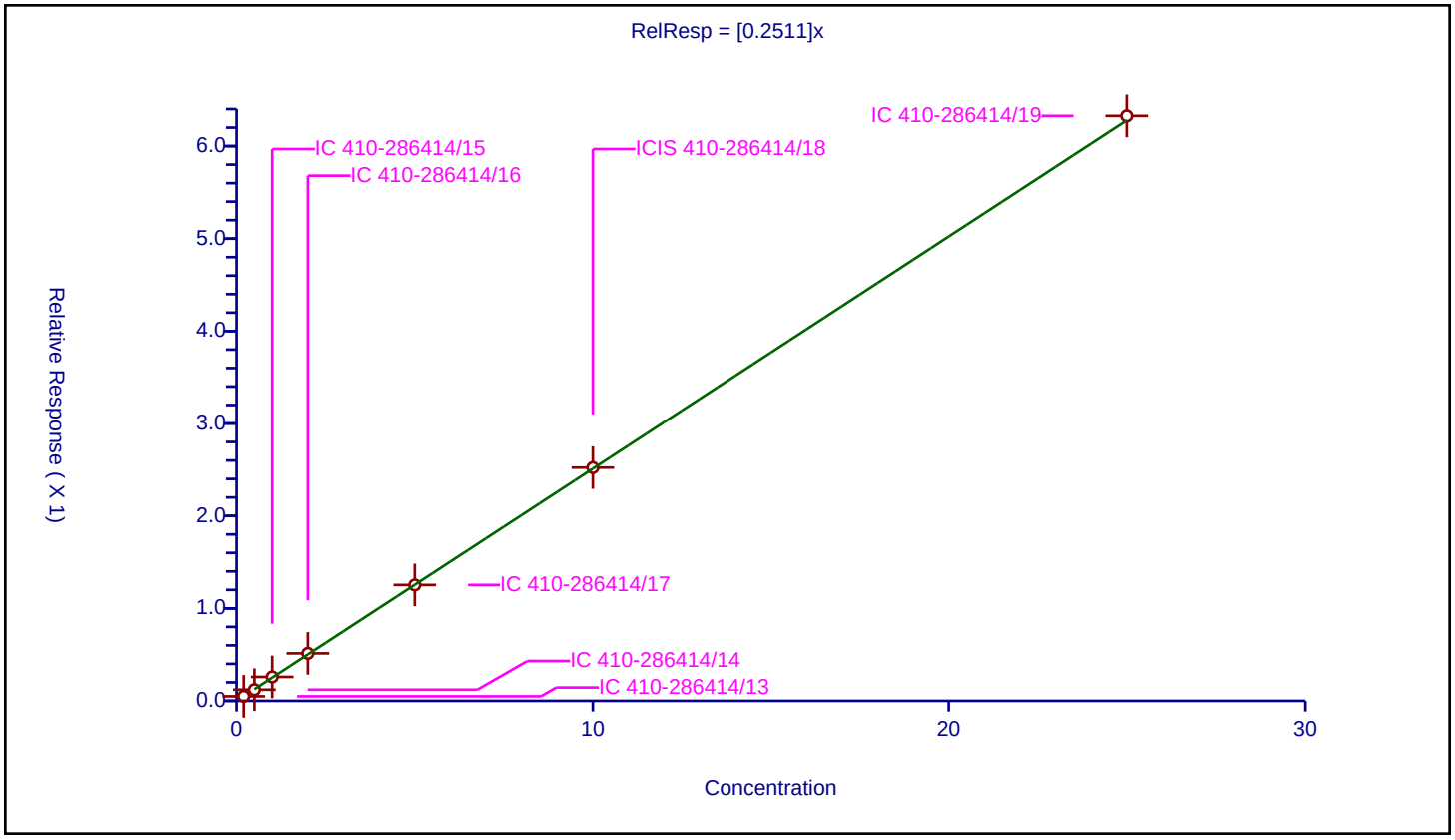
Curve Coefficients

Intercept:	0
Slope:	0.2511

Error Coefficients

Standard Error:	533000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.048936	10.0	1741668.0	0.244679	Y
2	IC 410-286414/14	0.5	0.12085	10.0	1755239.0	0.241699	Y
3	IC 410-286414/15	1.0	0.258917	10.0	1766319.0	0.258917	Y
4	IC 410-286414/16	2.0	0.513467	10.0	1767884.0	0.256733	Y
5	IC 410-286414/17	5.0	1.253436	10.0	1816359.0	0.250687	Y
6	ICIS 410-286414/18	10.0	2.522718	10.0	1837007.0	0.252272	Y
7	IC 410-286414/19	25.0	6.326306	10.0	1887193.0	0.253052	Y



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Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

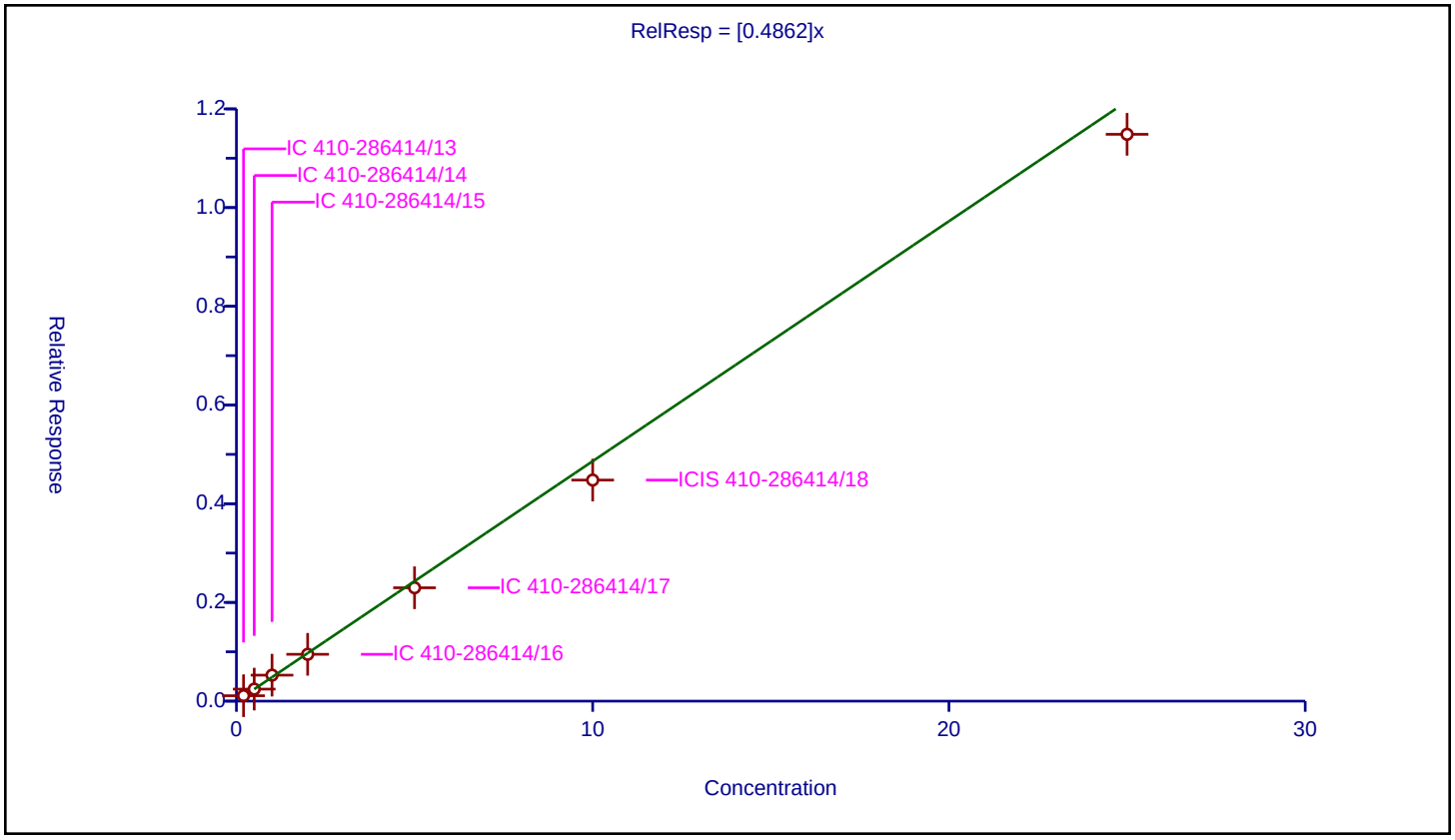
Curve Coefficients

Intercept:	0
Slope:	0.4862

Error Coefficients

Standard Error:	965000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.109803	10.0	1741668.0	0.549014	Y
2	IC 410-286414/14	0.5	0.243391	10.0	1755239.0	0.486783	Y
3	IC 410-286414/15	1.0	0.526219	10.0	1766319.0	0.526219	Y
4	IC 410-286414/16	2.0	0.948841	10.0	1767884.0	0.47442	Y
5	IC 410-286414/17	5.0	2.297046	10.0	1816359.0	0.459409	Y
6	ICIS 410-286414/18	10.0	4.47964	10.0	1837007.0	0.447964	Y
7	IC 410-286414/19	25.0	11.485312	10.0	1887193.0	0.459412	Y



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Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

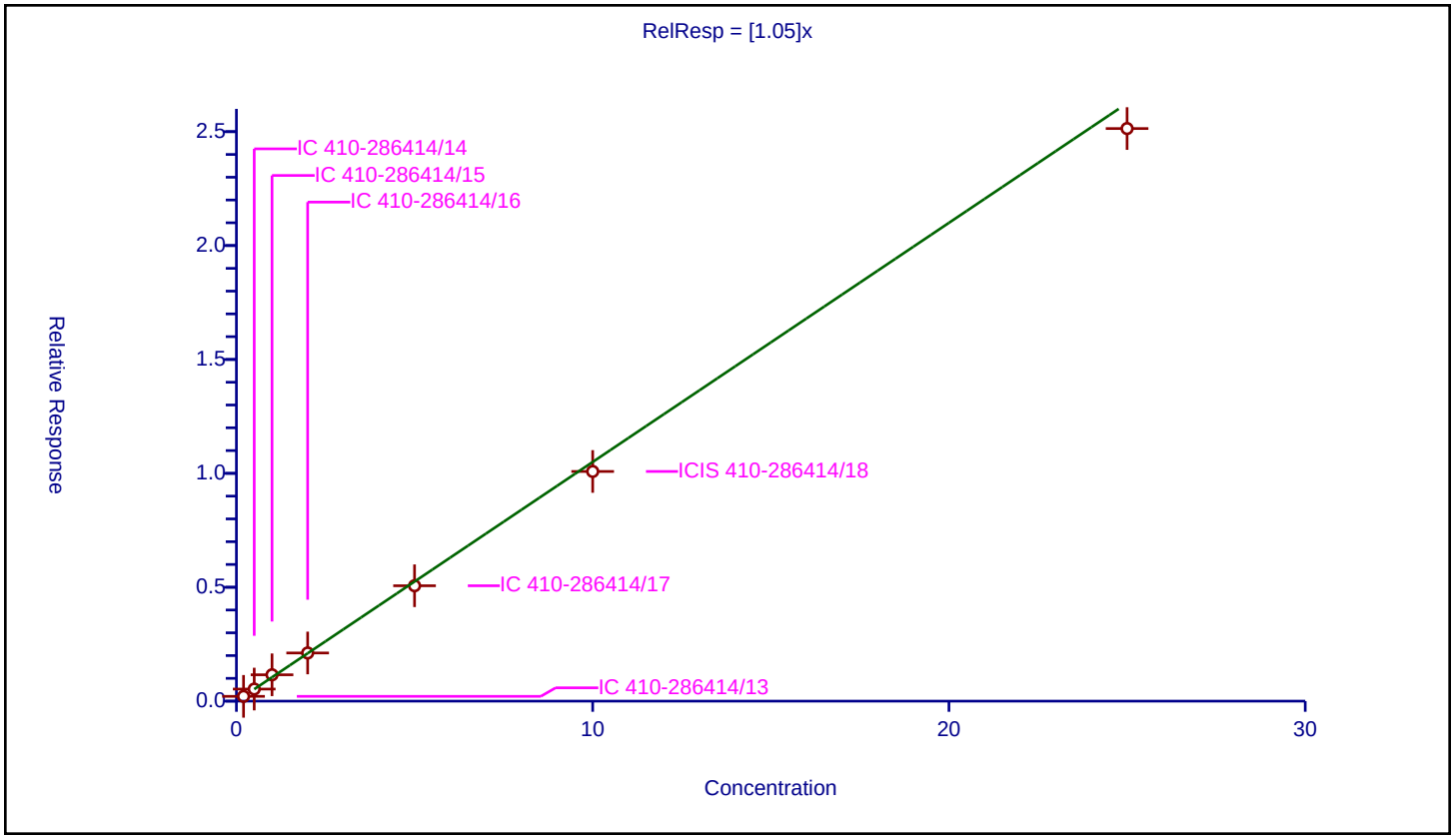
Curve Coefficients

Intercept:	0
Slope:	1.05

Error Coefficients

Standard Error:	2120000
Relative Standard Error:	5.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.20965	10.0	1741668.0	1.048248	Y
2	IC 410-286414/14	0.5	0.530036	10.0	1755239.0	1.060072	Y
3	IC 410-286414/15	1.0	1.156597	10.0	1766319.0	1.156597	Y
4	IC 410-286414/16	2.0	2.114698	10.0	1767884.0	1.057349	Y
5	IC 410-286414/17	5.0	5.066119	10.0	1816359.0	1.013224	Y
6	ICIS 410-286414/18	10.0	10.082722	10.0	1837007.0	1.008272	Y
7	IC 410-286414/19	25.0	25.136851	10.0	1887193.0	1.005474	Y



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Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

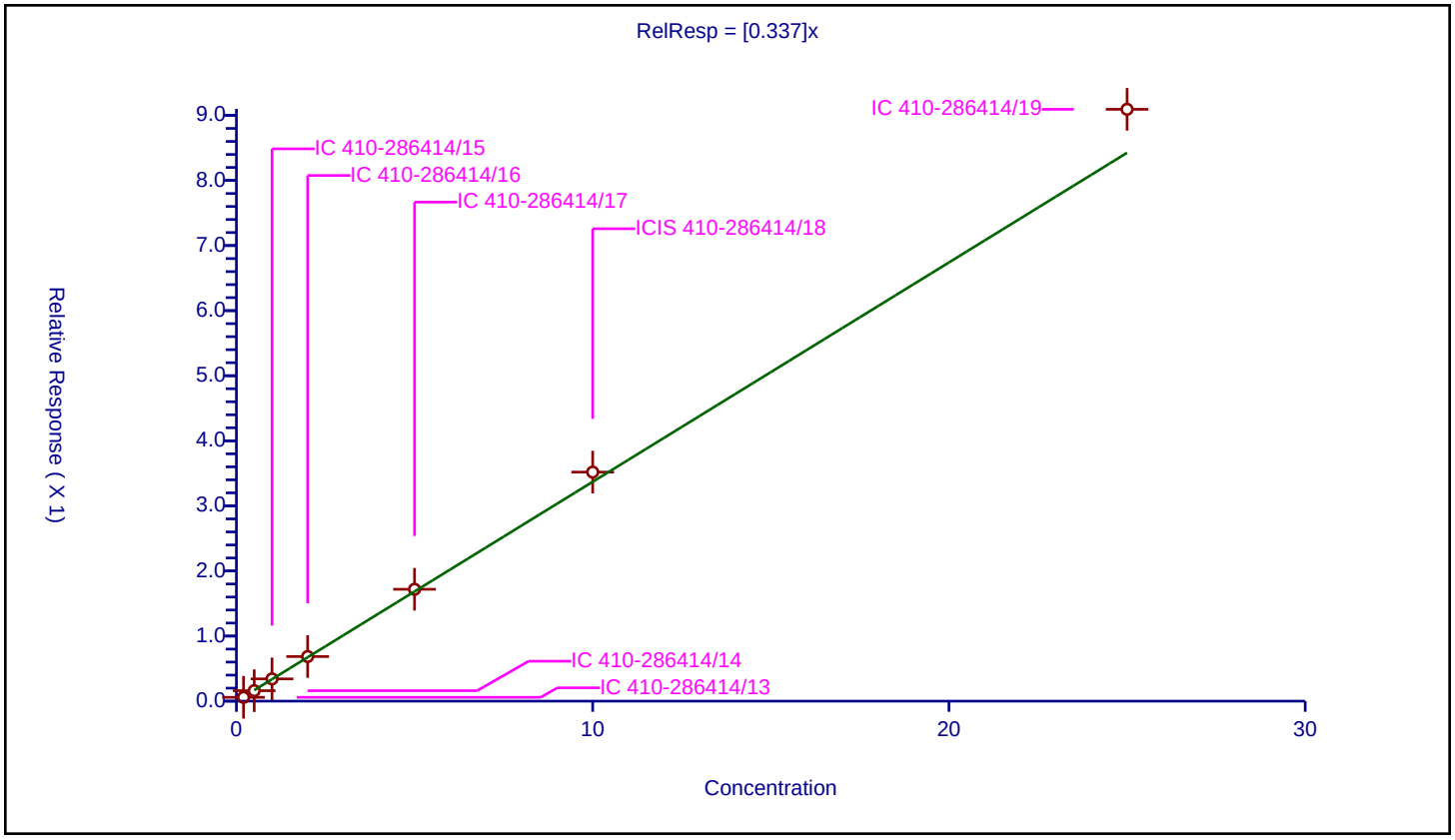
Curve Coefficients

Intercept:	0
Slope:	0.337

Error Coefficients

Standard Error:	762000
Relative Standard Error:	6.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.058766	10.0	1741668.0	0.293828	Y
2	IC 410-286414/14	0.5	0.160605	10.0	1755239.0	0.32121	Y
3	IC 410-286414/15	1.0	0.341943	10.0	1766319.0	0.341943	Y
4	IC 410-286414/16	2.0	0.685458	10.0	1767884.0	0.342729	Y
5	IC 410-286414/17	5.0	1.718807	10.0	1816359.0	0.343761	Y
6	ICIS 410-286414/18	10.0	3.519306	10.0	1837007.0	0.351931	Y
7	IC 410-286414/19	25.0	9.093251	10.0	1887193.0	0.36373	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

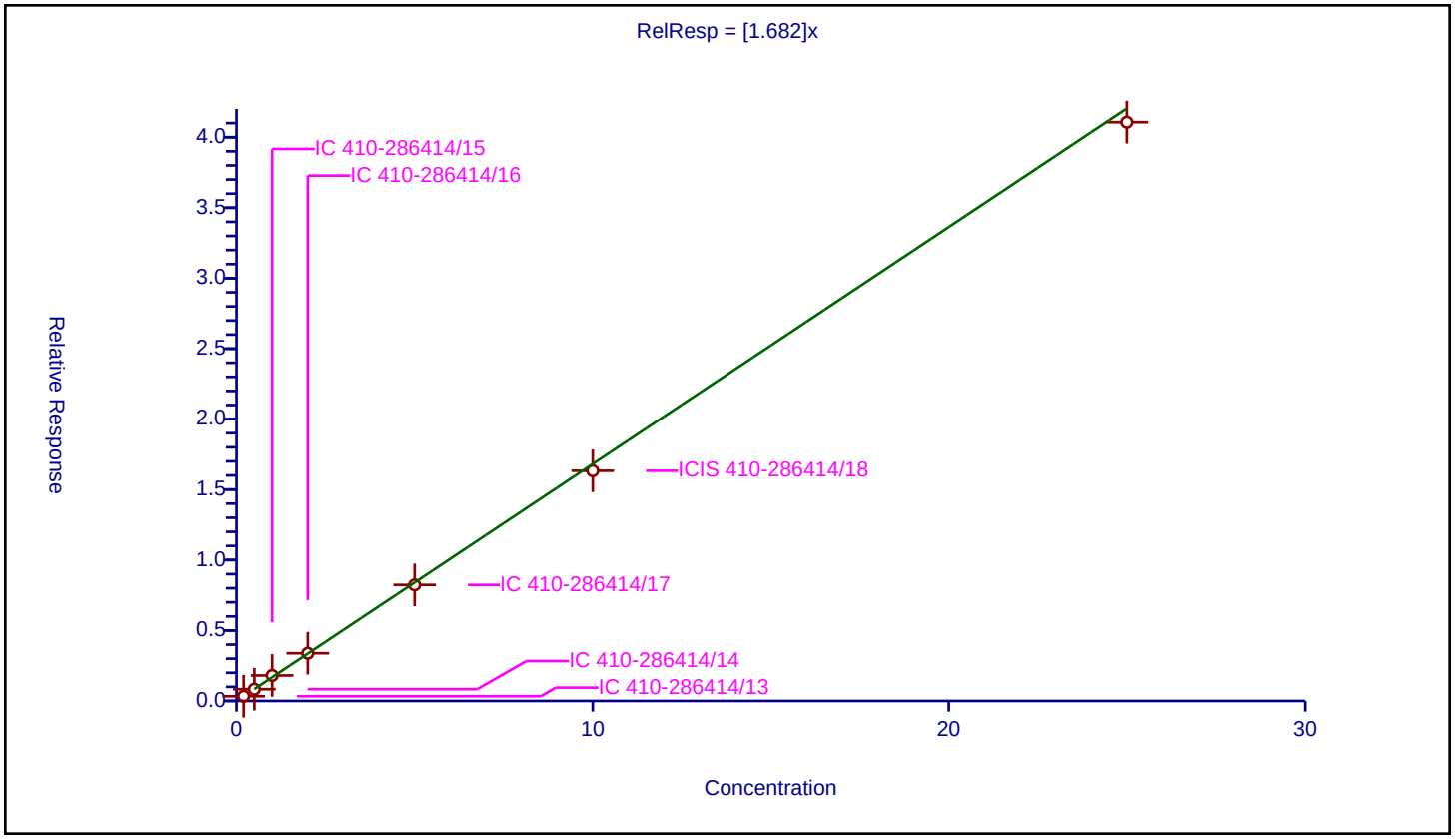
Curve Coefficients

Intercept:	0
Slope:	1.682

Error Coefficients

Standard Error:	3460000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.335678	10.0	1741668.0	1.678391	Y
2	IC 410-286414/14	0.5	0.83351	10.0	1755239.0	1.667021	Y
3	IC 410-286414/15	1.0	1.809367	10.0	1766319.0	1.809367	Y
4	IC 410-286414/16	2.0	3.386342	10.0	1767884.0	1.693171	Y
5	IC 410-286414/17	5.0	8.236054	10.0	1816359.0	1.647211	Y
6	ICIS 410-286414/18	10.0	16.333623	10.0	1837007.0	1.633362	Y
7	IC 410-286414/19	25.0	41.065074	10.0	1887193.0	1.642603	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

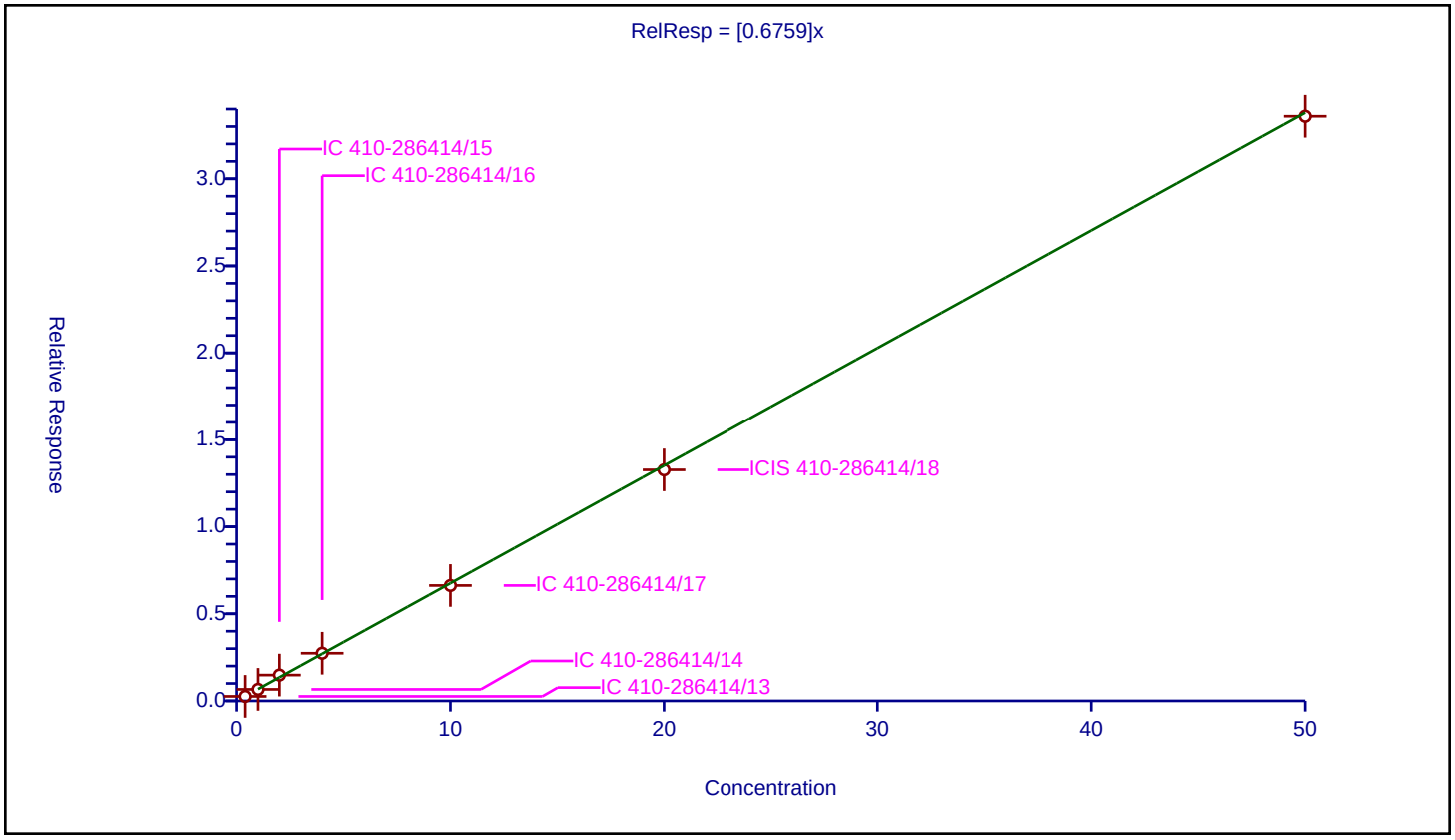
Curve Coefficients

Intercept:	0
Slope:	0.6759

Error Coefficients

Standard Error:	2830000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.4	0.258752	10.0	1741668.0	0.64688	Y
2	IC 410-286414/14	1.0	0.660639	10.0	1755239.0	0.660639	Y
3	IC 410-286414/15	2.0	1.482303	10.0	1766319.0	0.741152	Y
4	IC 410-286414/16	4.0	2.736848	10.0	1767884.0	0.684212	Y
5	IC 410-286414/17	10.0	6.626763	10.0	1816359.0	0.662676	Y
6	ICIS 410-286414/18	20.0	13.272943	10.0	1837007.0	0.663647	Y
7	IC 410-286414/19	50.0	33.587429	10.0	1887193.0	0.671749	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

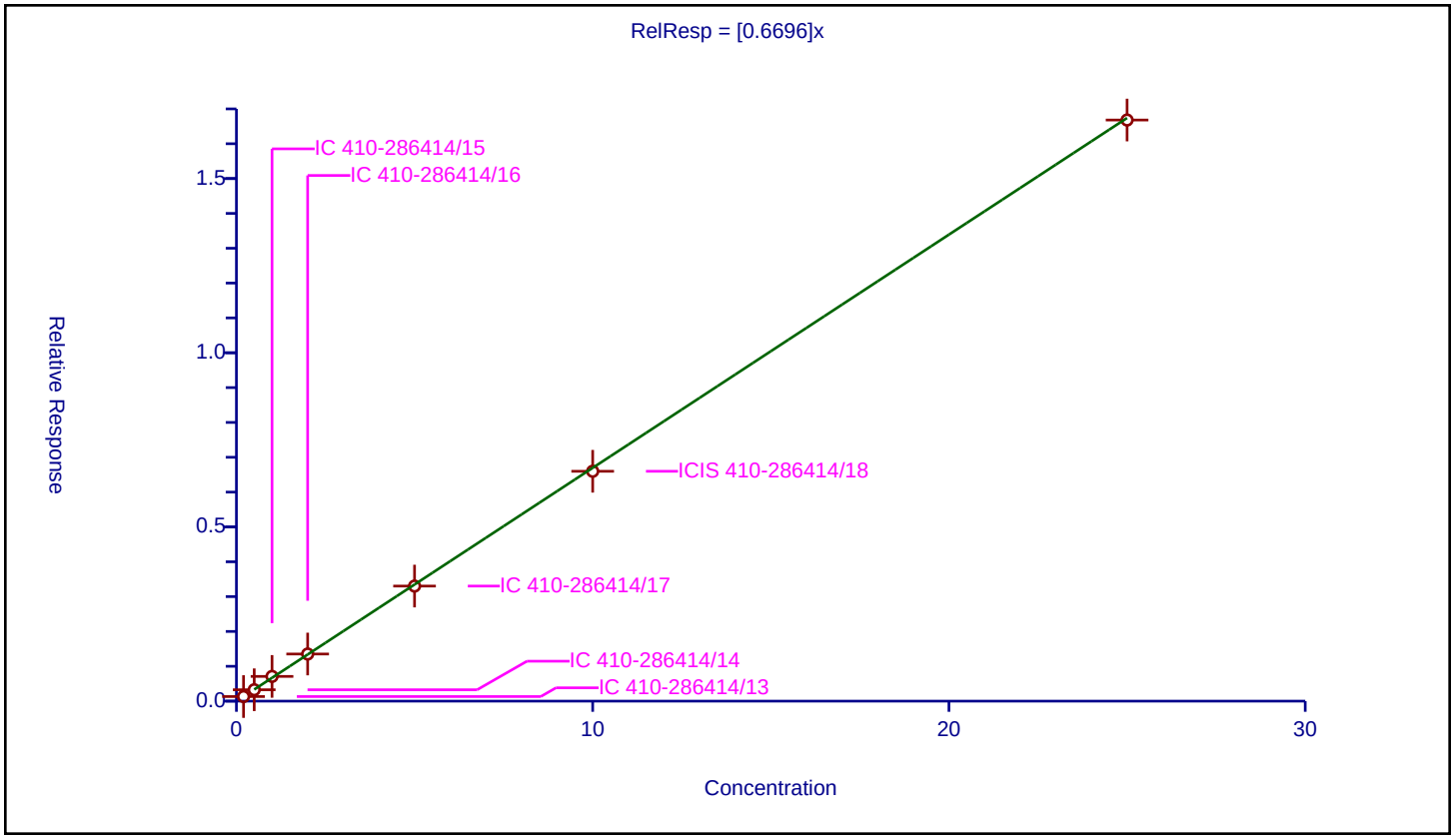
Curve Coefficients

Intercept:	0
Slope:	0.6696

Error Coefficients

Standard Error:	1400000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.131759	10.0	1741668.0	0.658794	Y
2	IC 410-286414/14	0.5	0.326975	10.0	1755239.0	0.653951	Y
3	IC 410-286414/15	1.0	0.710206	10.0	1766319.0	0.710206	Y
4	IC 410-286414/16	2.0	1.352623	10.0	1767884.0	0.676311	Y
5	IC 410-286414/17	5.0	3.303213	10.0	1816359.0	0.660643	Y
6	ICIS 410-286414/18	10.0	6.598315	10.0	1837007.0	0.659831	Y
7	IC 410-286414/19	25.0	16.680064	10.0	1887193.0	0.667203	Y



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Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

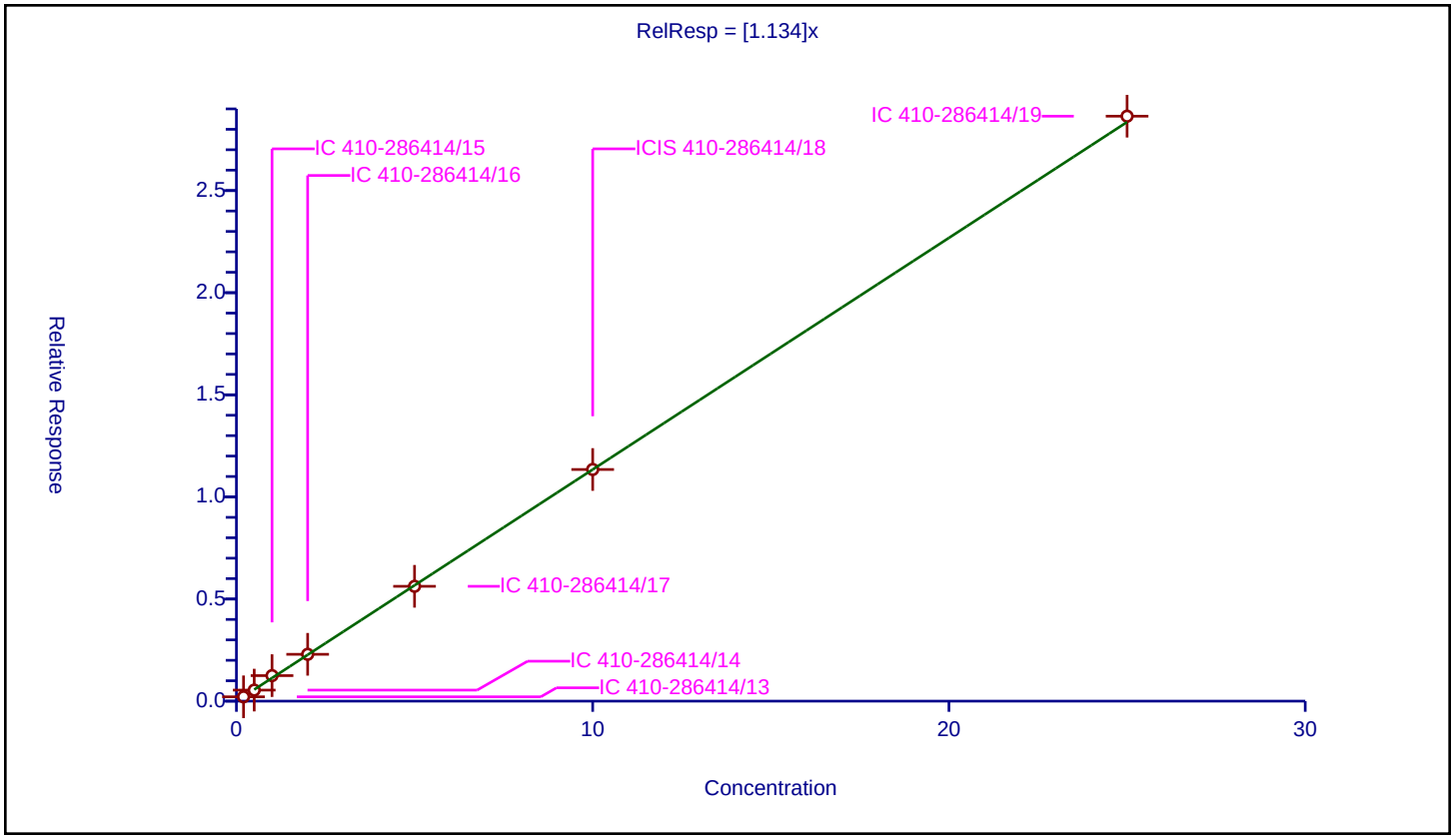
Curve Coefficients

Intercept:	0
Slope:	1.134

Error Coefficients

Standard Error:	2410000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.211366	10.0	1741668.0	1.056832	Y
2	IC 410-286414/14	0.5	0.540901	10.0	1755239.0	1.081801	Y
3	IC 410-286414/15	1.0	1.249797	10.0	1766319.0	1.249797	Y
4	IC 410-286414/16	2.0	2.293058	10.0	1767884.0	1.146529	Y
5	IC 410-286414/17	5.0	5.622782	10.0	1816359.0	1.124556	Y
6	ICIS 410-286414/18	10.0	11.342641	10.0	1837007.0	1.134264	Y
7	IC 410-286414/19	25.0	28.642561	10.0	1887193.0	1.145702	Y



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Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

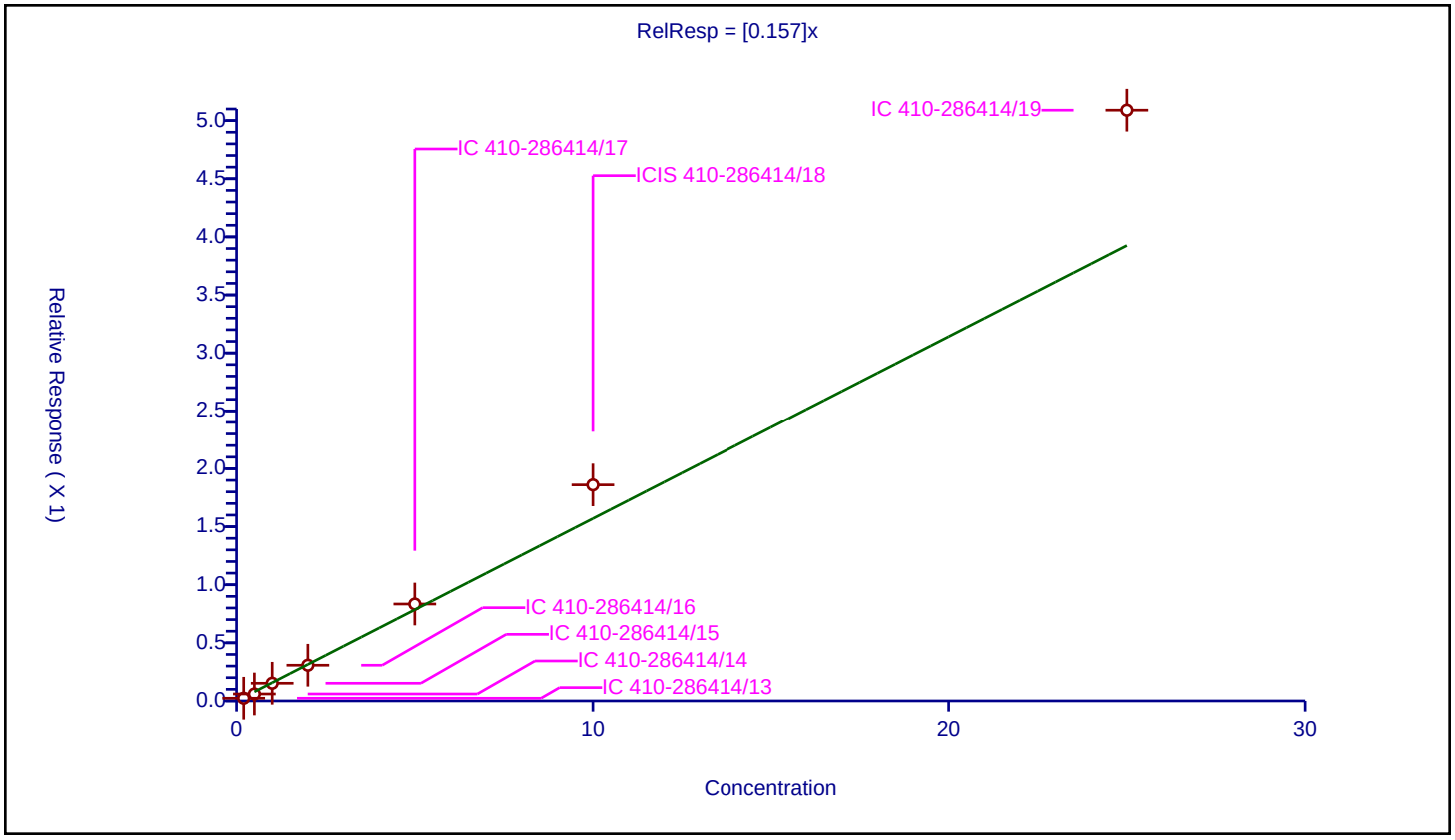
Curve Coefficients

Intercept:	0
Slope:	0.157

Error Coefficients

Standard Error:	422000
Relative Standard Error:	20.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.956

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.023391	10.0	1741668.0	0.116957	Y
2	IC 410-286414/14	0.5	0.059946	10.0	1755239.0	0.119893	Y
3	IC 410-286414/15	1.0	0.152288	10.0	1766319.0	0.152288	Y
4	IC 410-286414/16	2.0	0.307266	10.0	1767884.0	0.153633	Y
5	IC 410-286414/17	5.0	0.834213	10.0	1816359.0	0.166843	Y
6	ICIS 410-286414/18	10.0	1.860586	10.0	1837007.0	0.186059	Y
7	IC 410-286414/19	25.0	5.089729	10.0	1887193.0	0.203589	Y



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Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

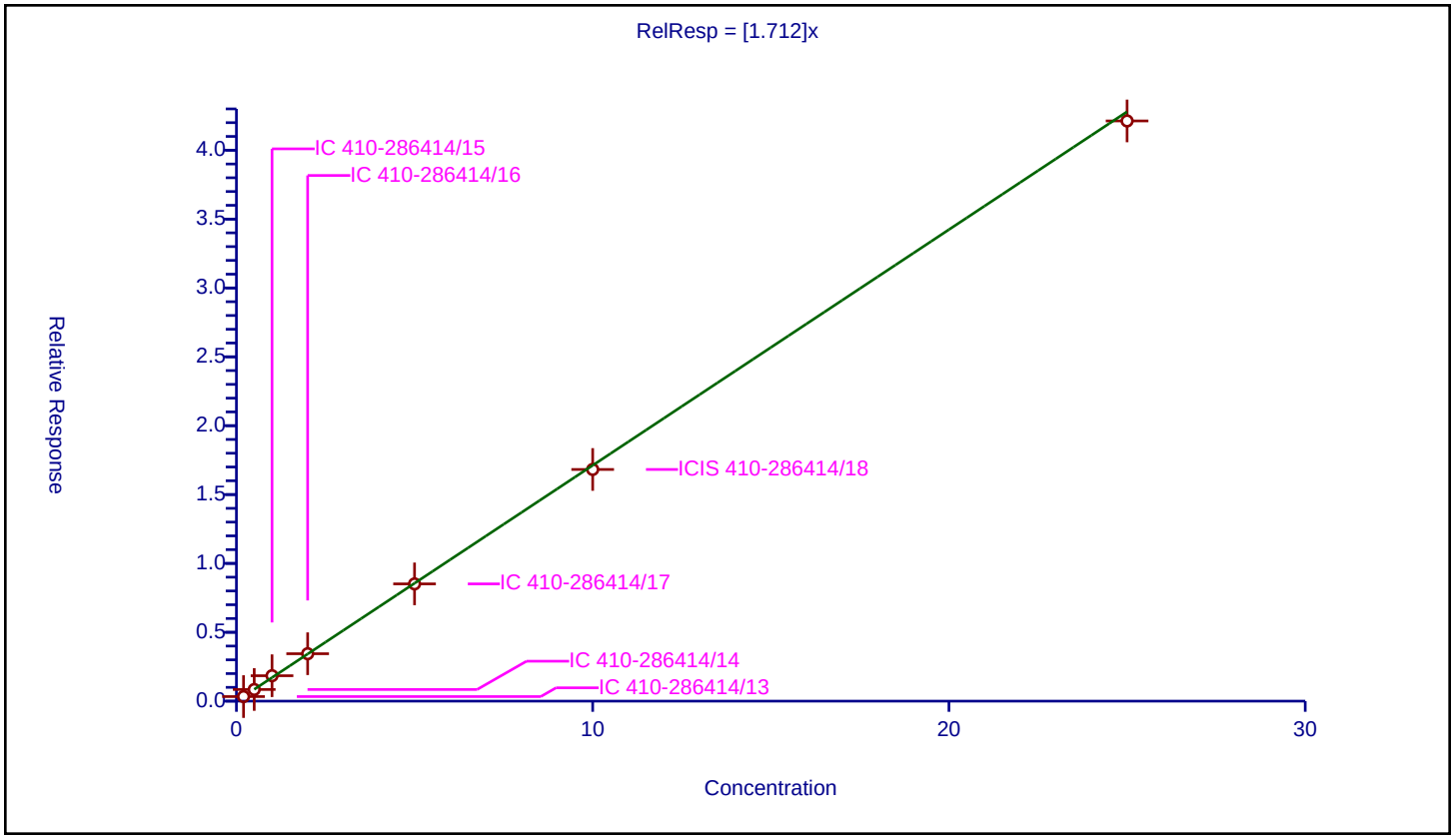
Curve Coefficients

Intercept:	0
Slope:	1.712

Error Coefficients

Standard Error:	3550000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.331056	10.0	1741668.0	1.655281	Y
2	IC 410-286414/14	0.5	0.845036	10.0	1755239.0	1.690072	Y
3	IC 410-286414/15	1.0	1.845901	10.0	1766319.0	1.845901	Y
4	IC 410-286414/16	2.0	3.44306	10.0	1767884.0	1.72153	Y
5	IC 410-286414/17	5.0	8.512811	10.0	1816359.0	1.702562	Y
6	ICIS 410-286414/18	10.0	16.820322	10.0	1837007.0	1.682032	Y
7	IC 410-286414/19	25.0	42.125411	10.0	1887193.0	1.685016	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

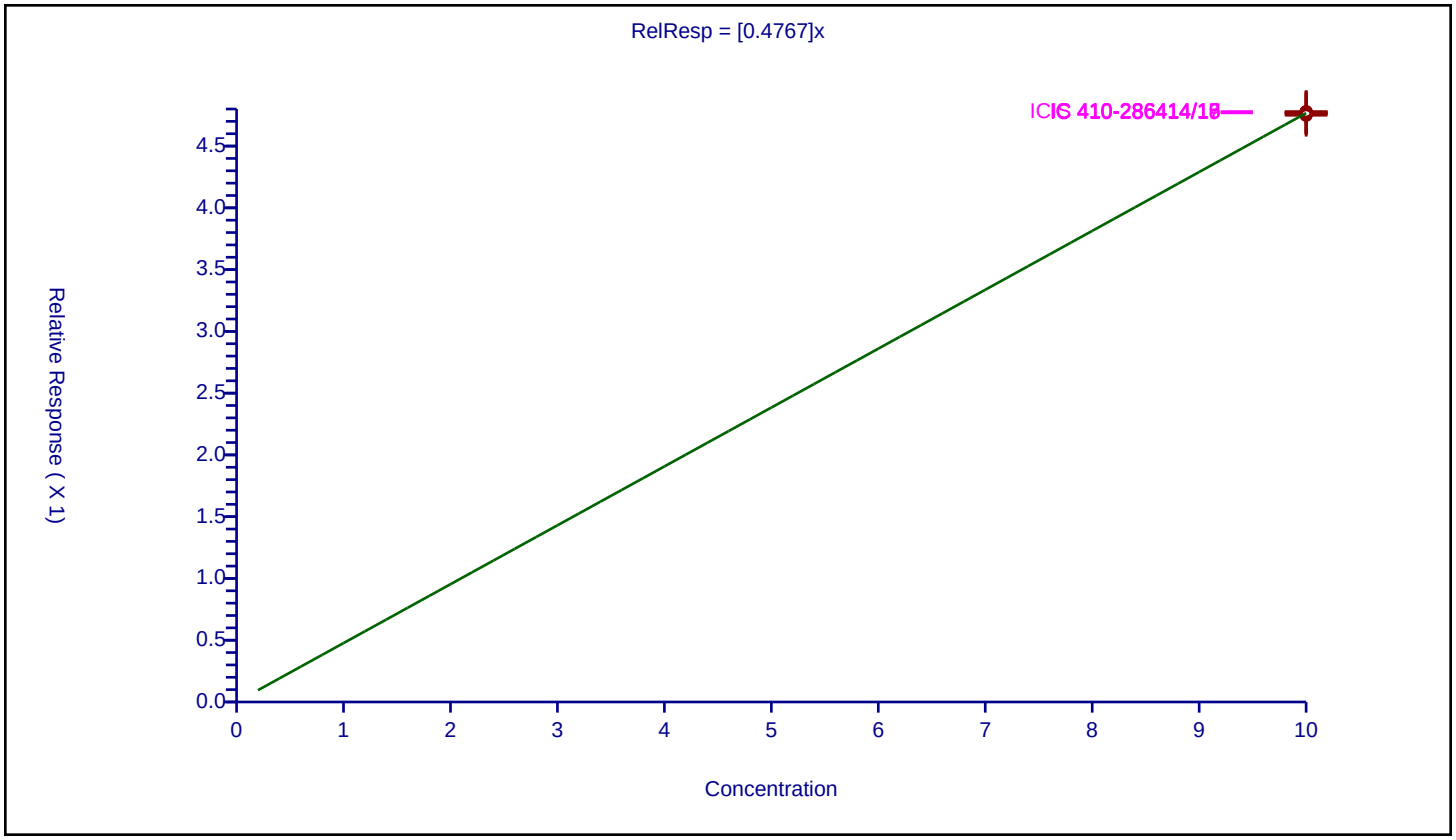
Curve Coefficients

Intercept:	0
Slope:	0.4767

Error Coefficients

Standard Error:	925000
Relative Standard Error:	0.2
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	10.0	4.749436	10.0	1741668.0	0.474944	Y
2	IC 410-286414/14	10.0	4.762468	10.0	1755239.0	0.476247	Y
3	IC 410-286414/15	10.0	4.758942	10.0	1766319.0	0.475894	Y
4	IC 410-286414/16	10.0	4.77688	10.0	1767884.0	0.477688	Y
5	IC 410-286414/17	10.0	4.77785	10.0	1816359.0	0.477785	Y
6	ICIS 410-286414/18	10.0	4.772921	10.0	1837007.0	0.477292	Y
7	IC 410-286414/19	10.0	4.768818	10.0	1887193.0	0.476882	Y



Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

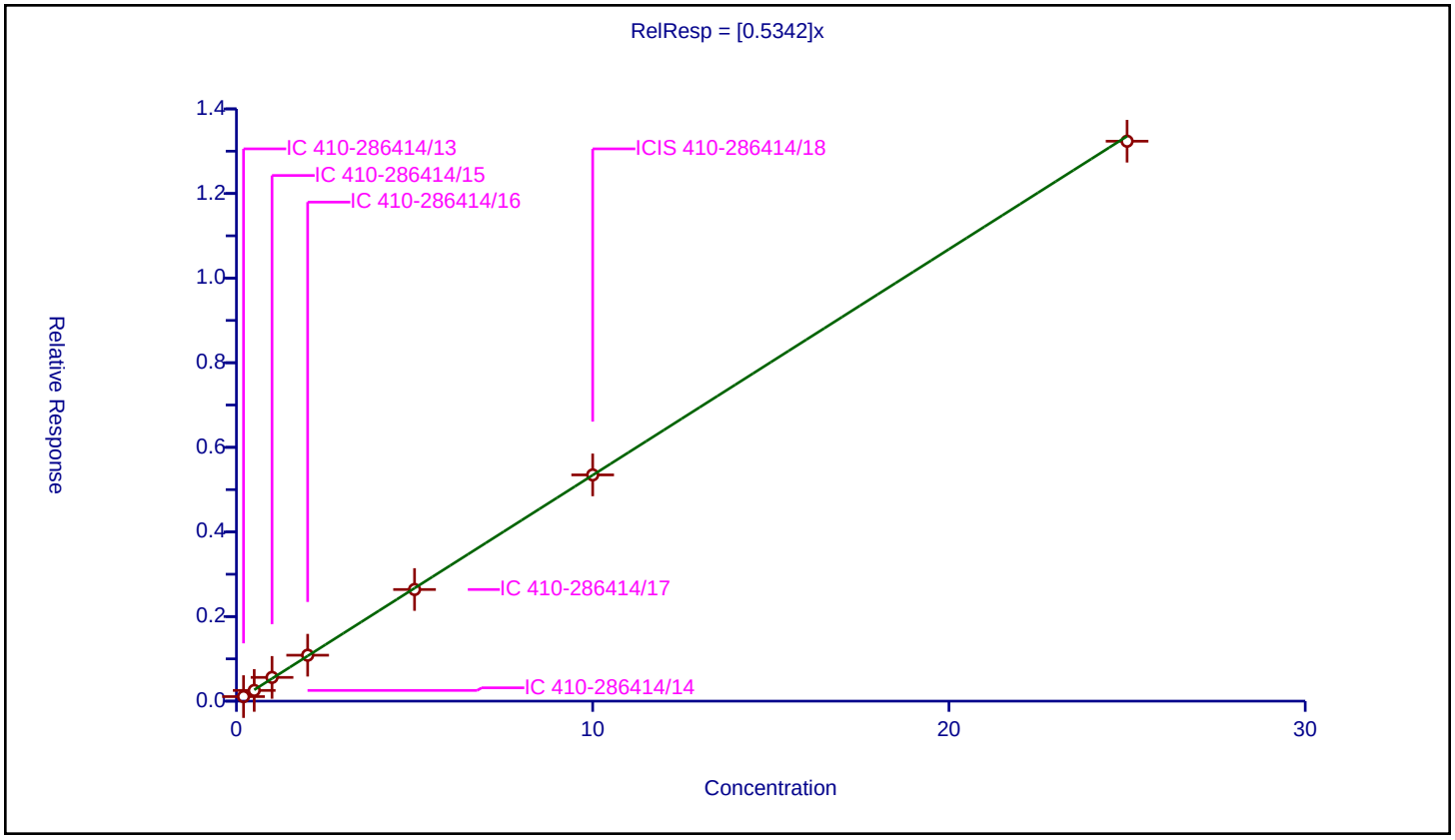
Curve Coefficients

Intercept:	0
Slope:	0.5342

Error Coefficients

Standard Error:	672000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.107247	10.0	1033318.0	0.536234	Y
2	IC 410-286414/14	0.5	0.25338	10.0	1047319.0	0.506761	Y
3	IC 410-286414/15	1.0	0.561163	10.0	1050836.0	0.561163	Y
4	IC 410-286414/16	2.0	1.085771	10.0	1056705.0	0.542886	Y
5	IC 410-286414/17	5.0	2.638885	10.0	1075545.0	0.527777	Y
6	ICIS 410-286414/18	10.0	5.347917	10.0	1096296.0	0.534792	Y
7	IC 410-286414/19	25.0	13.236061	10.0	1138282.0	0.529442	Y



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Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

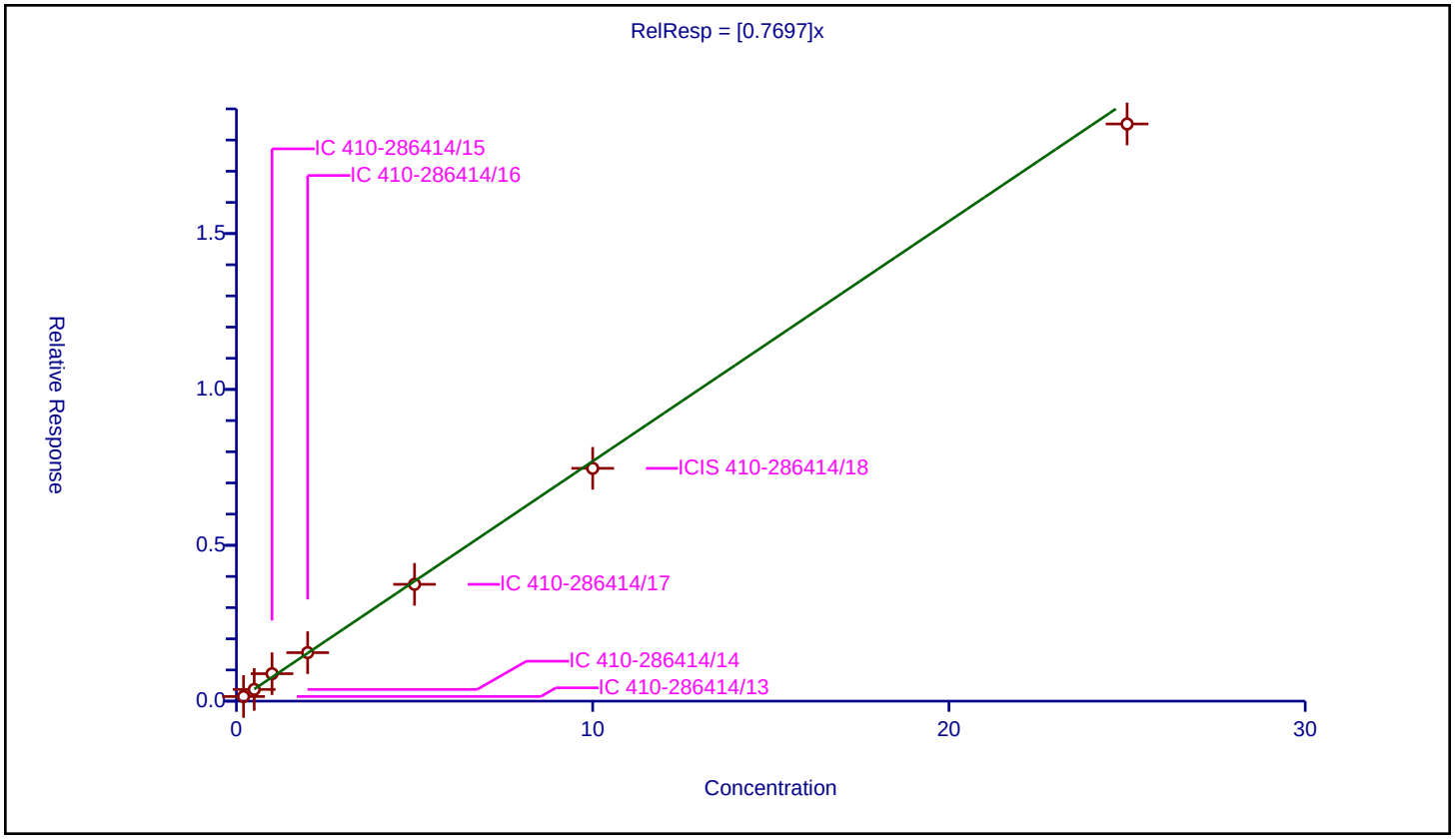
Curve Coefficients

Intercept:	0
Slope:	0.7697

Error Coefficients

Standard Error:	941000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.148434	10.0	1033318.0	0.742172	Y
2	IC 410-286414/14	0.5	0.375378	10.0	1047319.0	0.750755	Y
3	IC 410-286414/15	1.0	0.880109	10.0	1050836.0	0.880109	Y
4	IC 410-286414/16	2.0	1.555931	10.0	1056705.0	0.777965	Y
5	IC 410-286414/17	5.0	3.747886	10.0	1075545.0	0.749577	Y
6	ICIS 410-286414/18	10.0	7.468831	10.0	1096296.0	0.746883	Y
7	IC 410-286414/19	25.0	18.516361	10.0	1138282.0	0.740654	Y



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Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

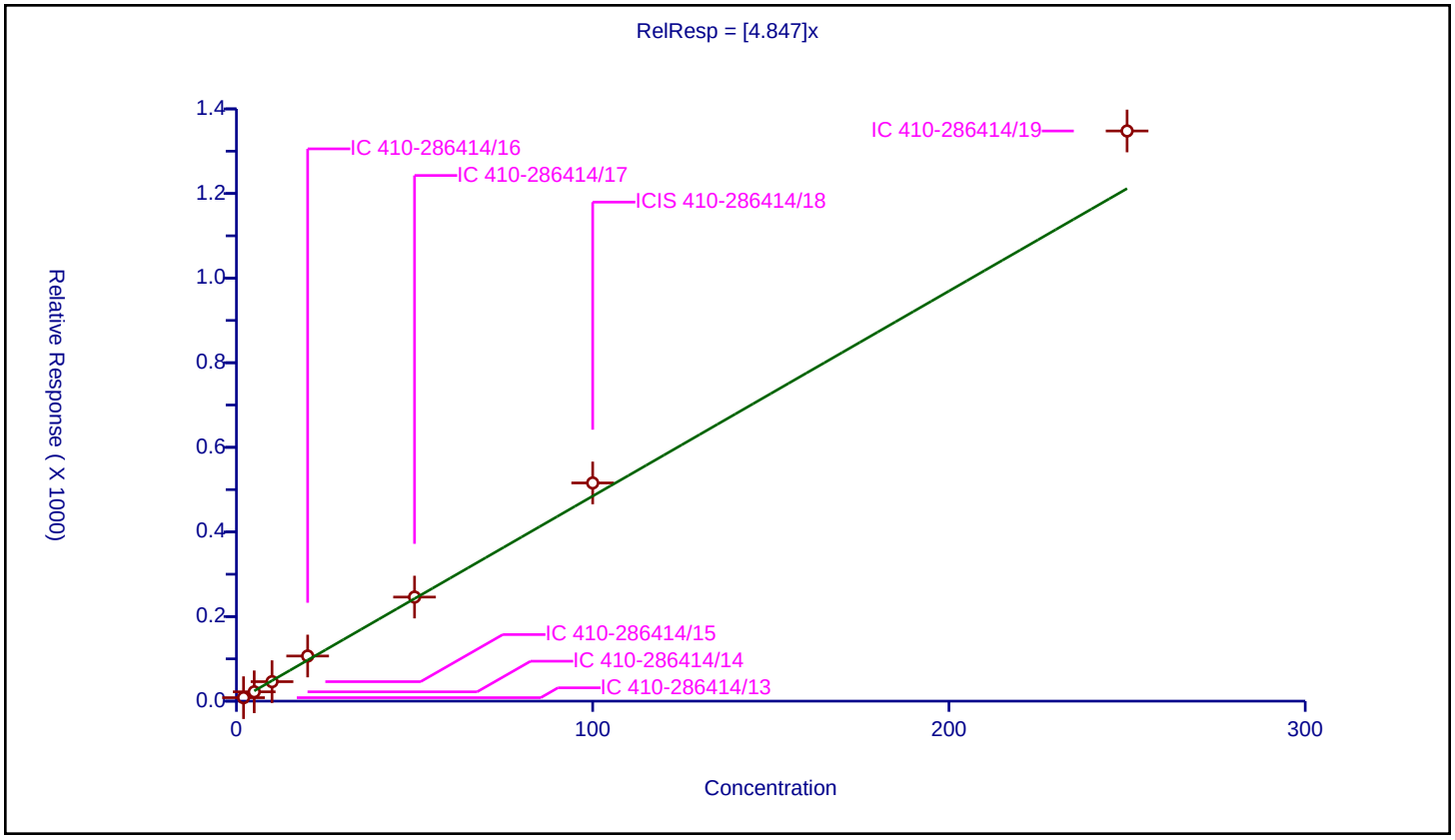
Curve Coefficients

Intercept:	0
Slope:	4.847

Error Coefficients

Standard Error:	1720000
Relative Standard Error:	10.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	2.0	8.218576	50.0	133180.0	4.109288	Y
2	IC 410-286414/14	5.0	22.05193	50.0	128635.0	4.410386	Y
3	IC 410-286414/15	10.0	46.034847	50.0	136943.0	4.603485	Y
4	IC 410-286414/16	20.0	106.691243	50.0	124917.0	5.334562	Y
5	IC 410-286414/17	50.0	246.023452	50.0	141819.0	4.920469	Y
6	ICIS 410-286414/18	100.0	515.768432	50.0	142576.0	5.157684	Y
7	IC 410-286414/19	250.0	1347.796374	50.0	143695.0	5.391185	Y



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Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

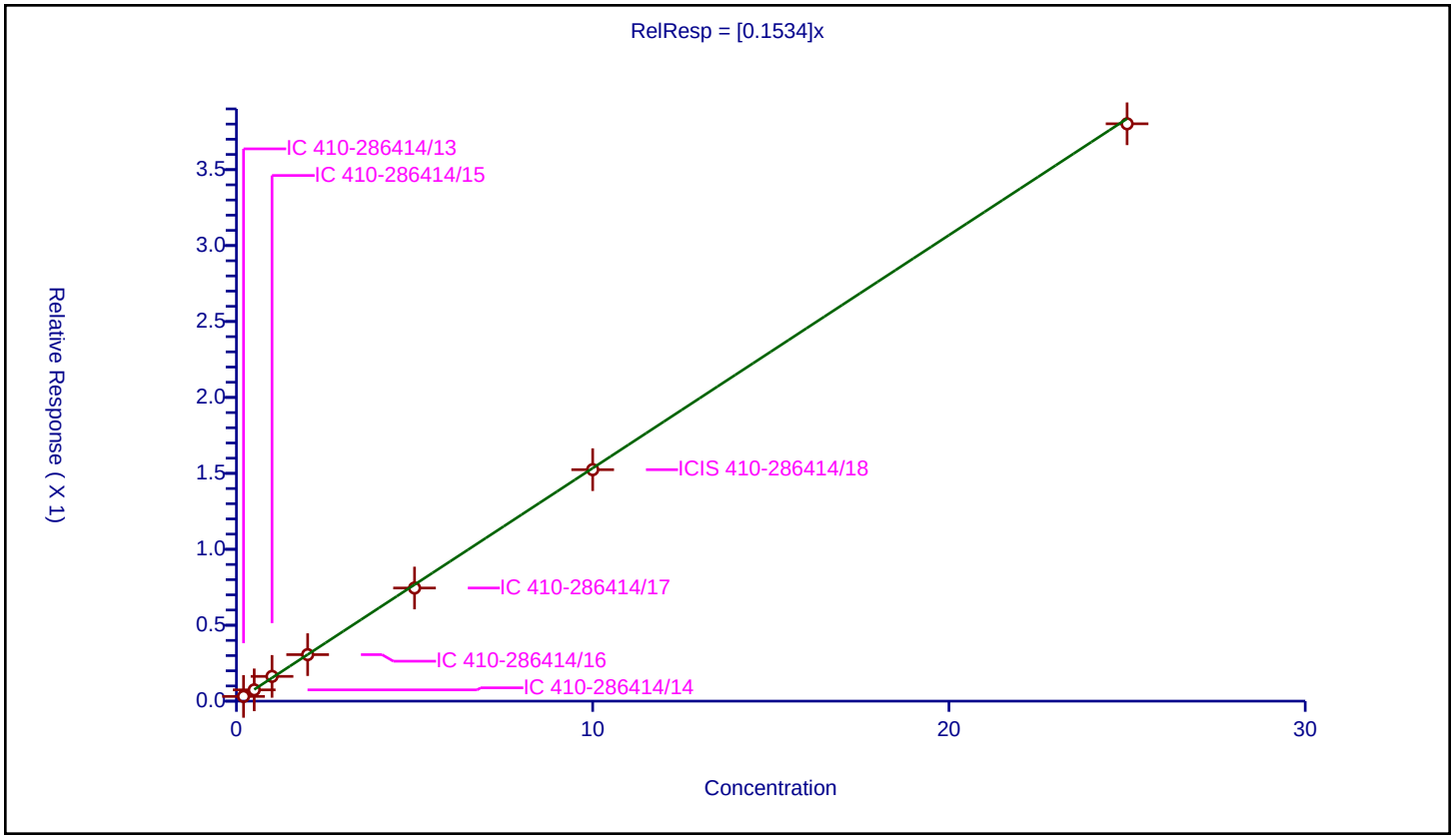
Curve Coefficients

Intercept:	0
Slope:	0.1534

Error Coefficients

Standard Error:	193000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.031133	10.0	1033318.0	0.155664	Y
2	IC 410-286414/14	0.5	0.074294	10.0	1047319.0	0.148589	Y
3	IC 410-286414/15	1.0	0.163042	10.0	1050836.0	0.163042	Y
4	IC 410-286414/16	2.0	0.306292	10.0	1056705.0	0.153146	Y
5	IC 410-286414/17	5.0	0.745027	10.0	1075545.0	0.149005	Y
6	ICIS 410-286414/18	10.0	1.524214	10.0	1096296.0	0.152421	Y
7	IC 410-286414/19	25.0	3.80187	10.0	1138282.0	0.152075	Y



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Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

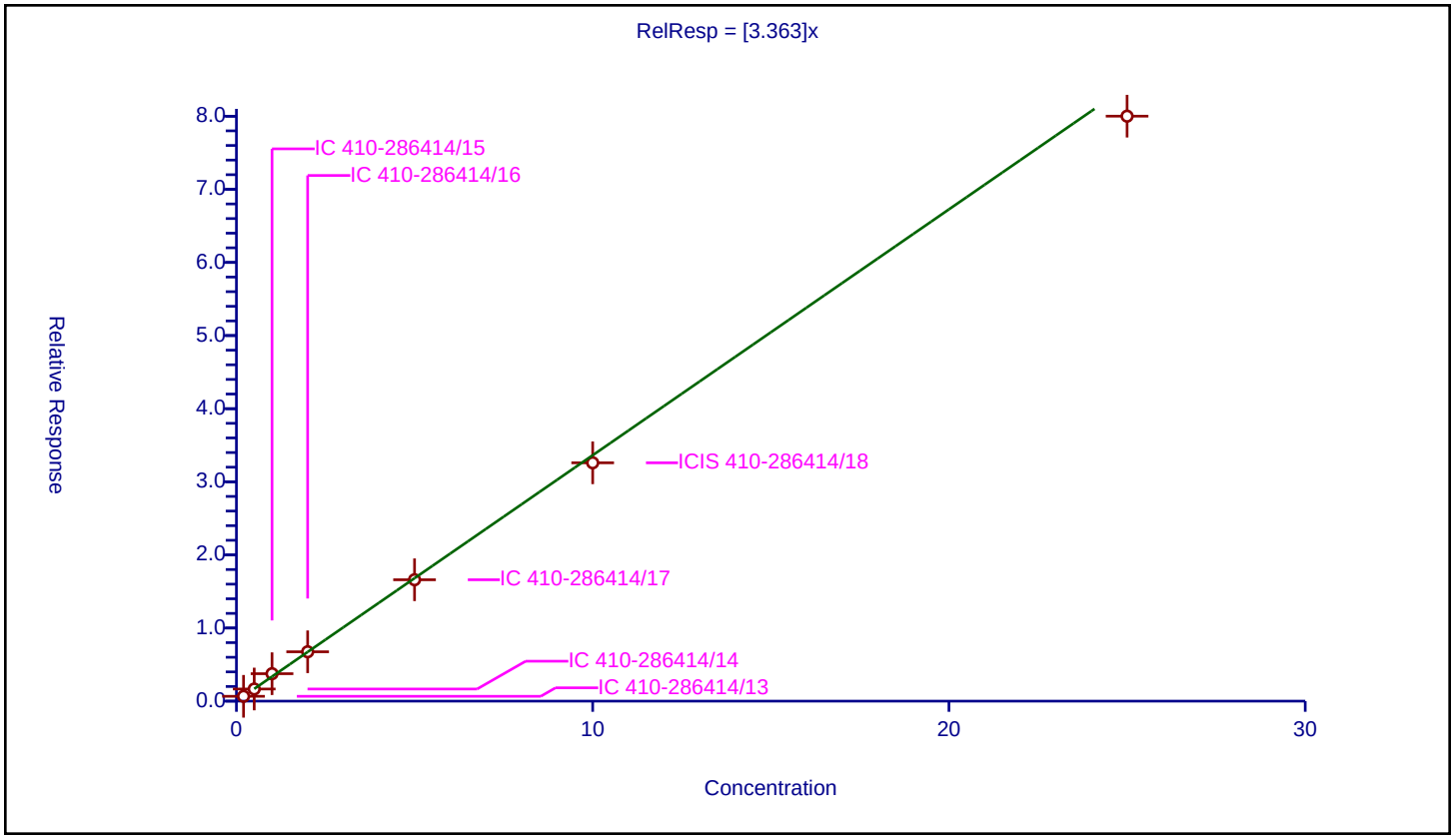
Curve Coefficients

Intercept:	0
Slope:	3.363

Error Coefficients

Standard Error:	4070000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.662671	10.0	1033318.0	3.313356	Y
2	IC 410-286414/14	0.5	1.658473	10.0	1047319.0	3.316945	Y
3	IC 410-286414/15	1.0	3.755315	10.0	1050836.0	3.755315	Y
4	IC 410-286414/16	2.0	6.749897	10.0	1056705.0	3.374949	Y
5	IC 410-286414/17	5.0	16.602978	10.0	1075545.0	3.320596	Y
6	ICIS 410-286414/18	10.0	32.594655	10.0	1096296.0	3.259466	Y
7	IC 410-286414/19	25.0	80.00427	10.0	1138282.0	3.200171	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

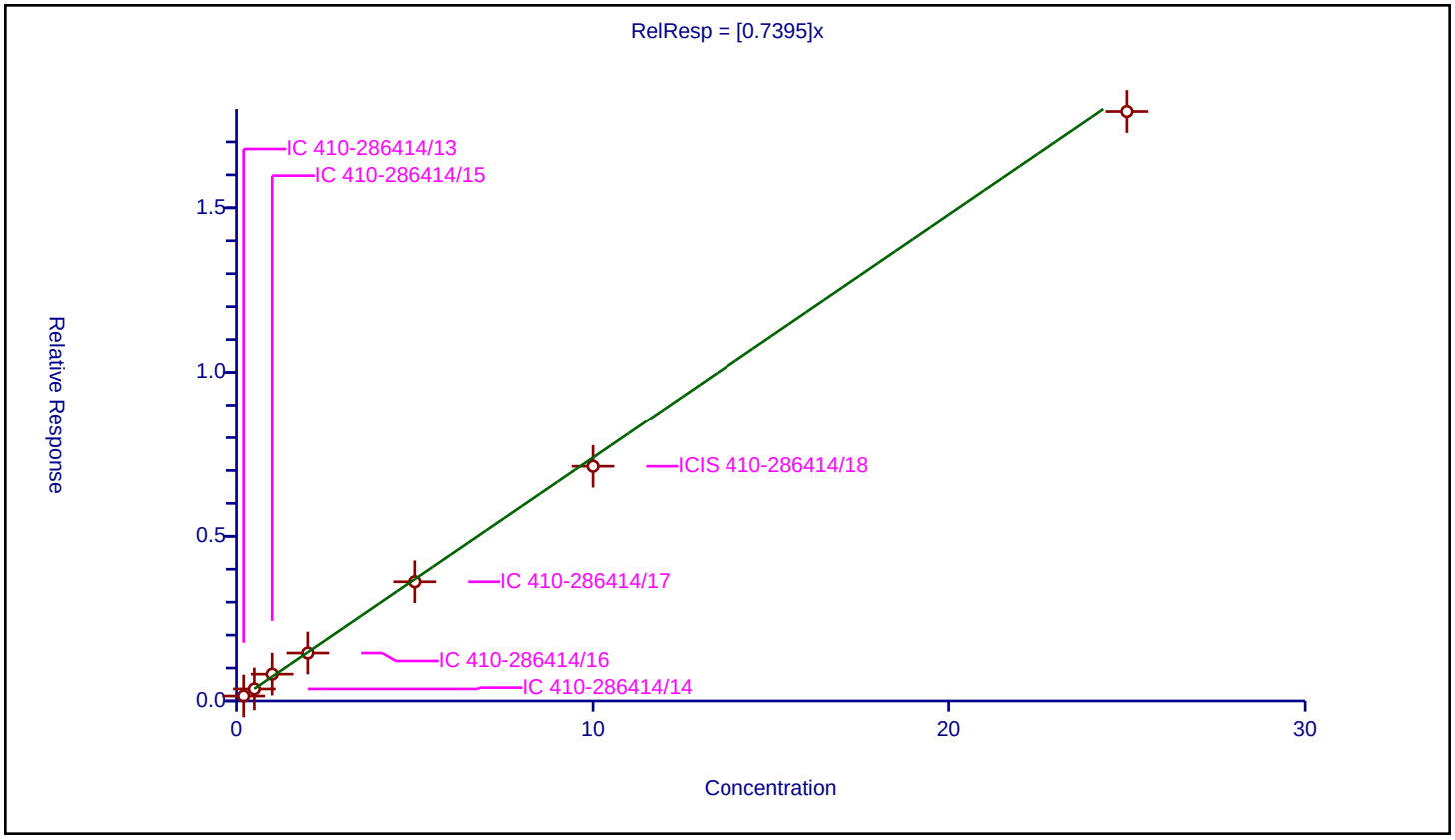
Curve Coefficients

Intercept:	0
Slope:	0.7395

Error Coefficients

Standard Error:	909000
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.149876	10.0	1033318.0	0.749382	Y
2	IC 410-286414/14	0.5	0.365486	10.0	1047319.0	0.730971	Y
3	IC 410-286414/15	1.0	0.81477	10.0	1050836.0	0.81477	Y
4	IC 410-286414/16	2.0	1.456073	10.0	1056705.0	0.728037	Y
5	IC 410-286414/17	5.0	3.618389	10.0	1075545.0	0.723678	Y
6	ICIS 410-286414/18	10.0	7.128467	10.0	1096296.0	0.712847	Y
7	IC 410-286414/19	25.0	17.923669	10.0	1138282.0	0.716947	Y



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Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

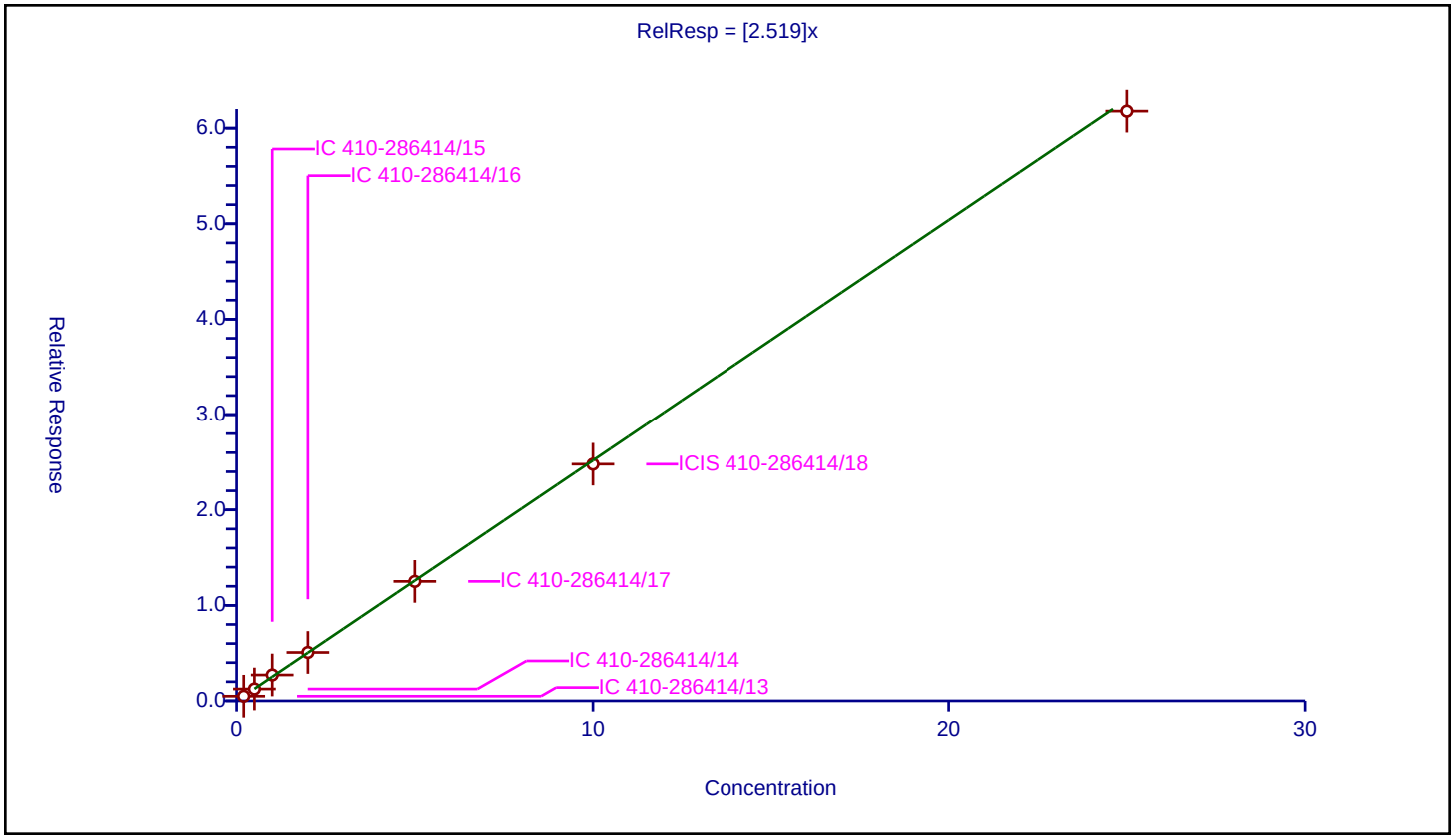
Curve Coefficients

Intercept:	0
Slope:	2.519

Error Coefficients

Standard Error:	3140000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.48924	10.0	1033318.0	2.446198	Y
2	IC 410-286414/14	0.5	1.245475	10.0	1047319.0	2.490951	Y
3	IC 410-286414/15	1.0	2.710661	10.0	1050836.0	2.710661	Y
4	IC 410-286414/16	2.0	5.066882	10.0	1056705.0	2.533441	Y
5	IC 410-286414/17	5.0	12.508431	10.0	1075545.0	2.501686	Y
6	ICIS 410-286414/18	10.0	24.796916	10.0	1096296.0	2.479692	Y
7	IC 410-286414/19	25.0	61.779603	10.0	1138282.0	2.471184	Y



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Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

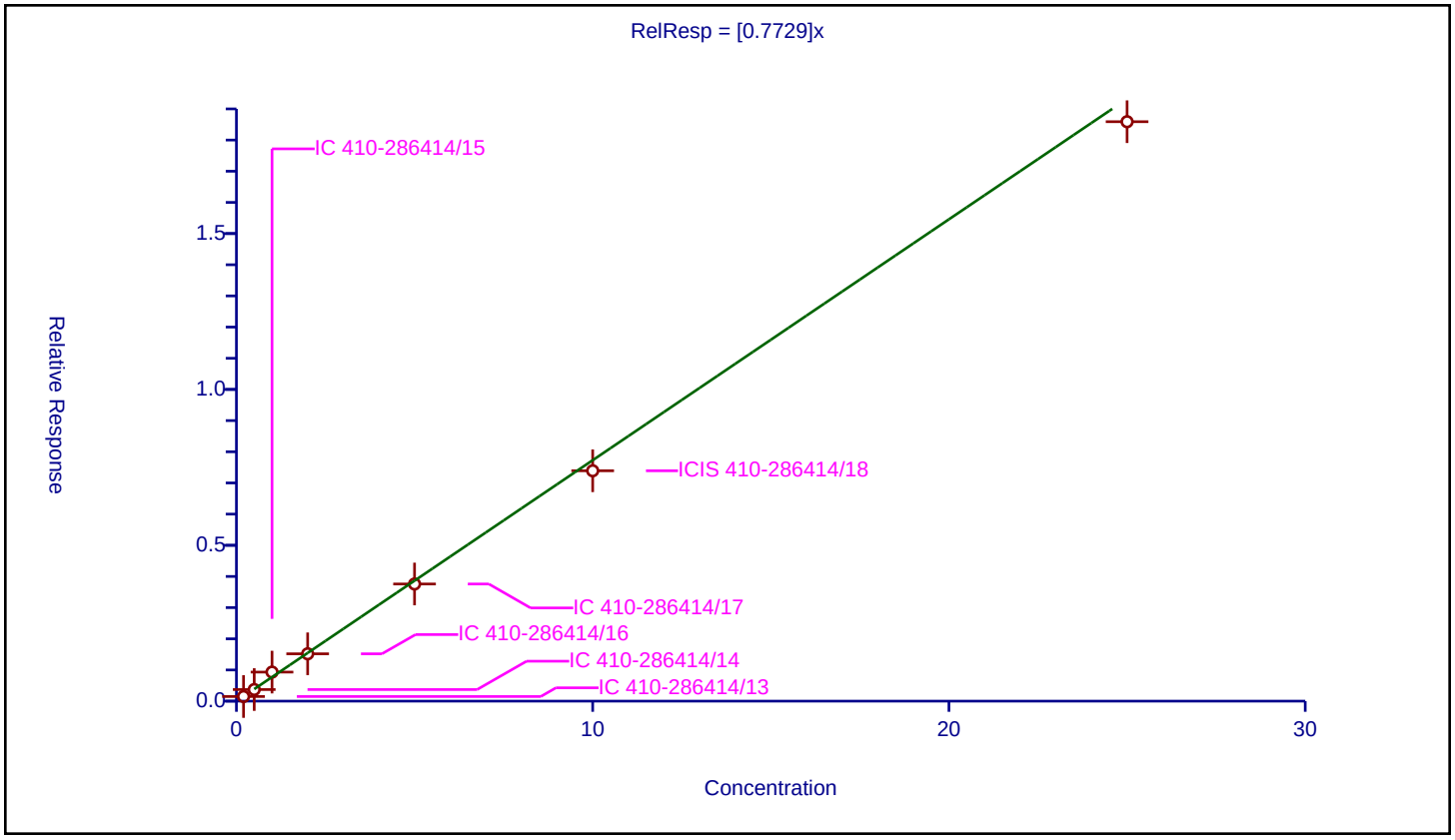
Curve Coefficients

Intercept:	0
Slope:	0.7729

Error Coefficients

Standard Error:	943000
Relative Standard Error:	9.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.148038	10.0	1033318.0	0.740188	Y
2	IC 410-286414/14	0.5	0.372389	10.0	1047319.0	0.744778	Y
3	IC 410-286414/15	1.0	0.931554	10.0	1050836.0	0.931554	Y
4	IC 410-286414/16	2.0	1.518428	10.0	1056705.0	0.759214	Y
5	IC 410-286414/17	5.0	3.758411	10.0	1075545.0	0.751682	Y
6	ICIS 410-286414/18	10.0	7.390668	10.0	1096296.0	0.739067	Y
7	IC 410-286414/19	25.0	18.588988	10.0	1138282.0	0.74356	Y



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Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

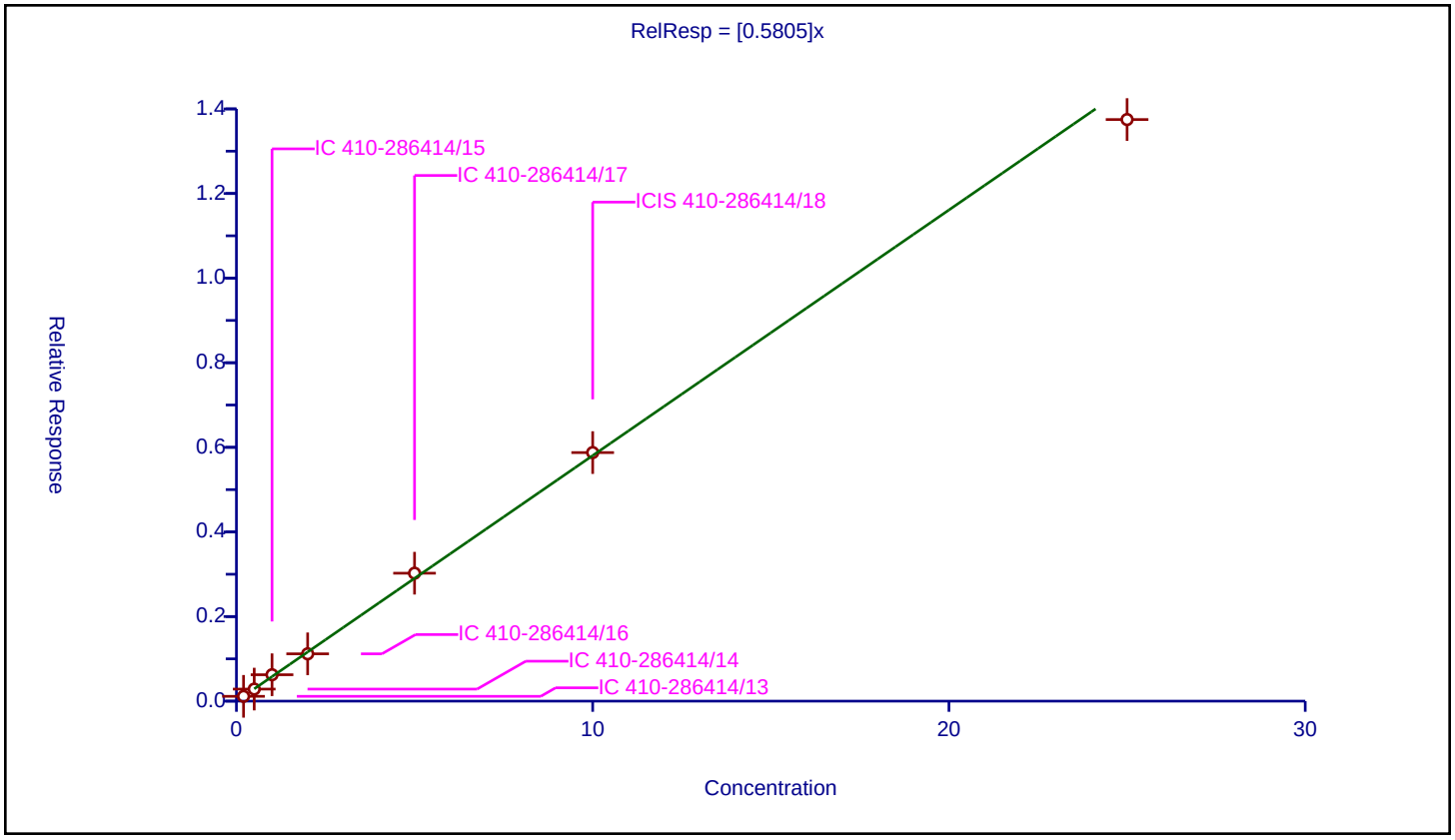
Curve Coefficients

Intercept:	0
Slope:	0.5805

Error Coefficients

Standard Error:	706000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.113498	10.0	1033318.0	0.567492	Y
2	IC 410-286414/14	0.5	0.285023	10.0	1047319.0	0.570046	Y
3	IC 410-286414/15	1.0	0.624531	10.0	1050836.0	0.624531	Y
4	IC 410-286414/16	2.0	1.118694	10.0	1056705.0	0.559347	Y
5	IC 410-286414/17	5.0	3.023992	10.0	1075545.0	0.604798	Y
6	ICIS 410-286414/18	10.0	5.87553	10.0	1096296.0	0.587553	Y
7	IC 410-286414/19	25.0	13.748324	10.0	1138282.0	0.549933	Y



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Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

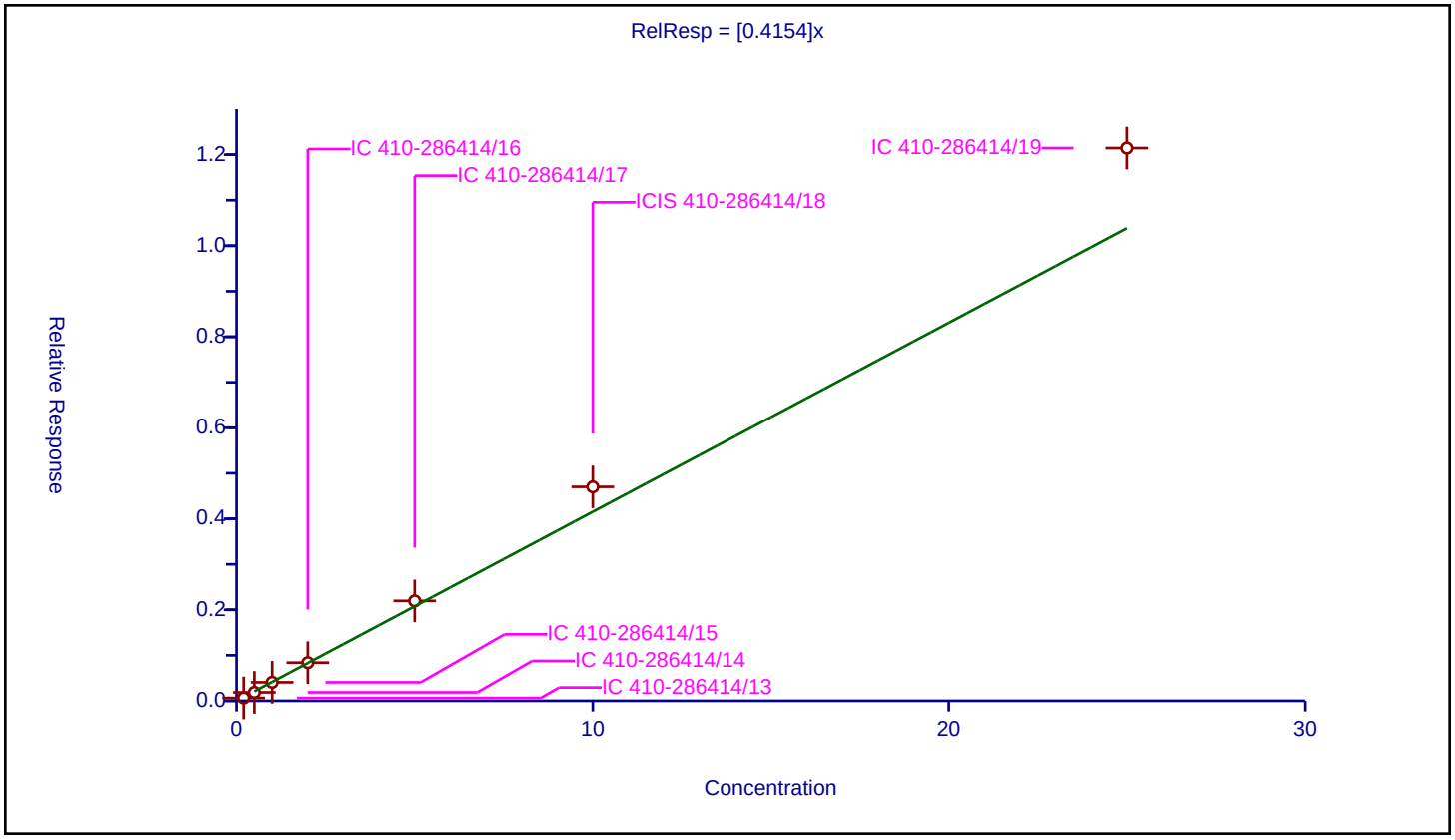
Curve Coefficients

Intercept:	0
Slope:	0.4154

Error Coefficients

Standard Error:	611000
Relative Standard Error:	14.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.063107	10.0	1033318.0	0.315537	Y
2	IC 410-286414/14	0.5	0.185569	10.0	1047319.0	0.371138	Y
3	IC 410-286414/15	1.0	0.406629	10.0	1050836.0	0.406629	Y
4	IC 410-286414/16	2.0	0.838588	10.0	1056705.0	0.419294	Y
5	IC 410-286414/17	5.0	2.196384	10.0	1075545.0	0.439277	Y
6	ICIS 410-286414/18	10.0	4.70113	10.0	1096296.0	0.470113	Y
7	IC 410-286414/19	25.0	12.144618	10.0	1138282.0	0.485785	Y



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Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

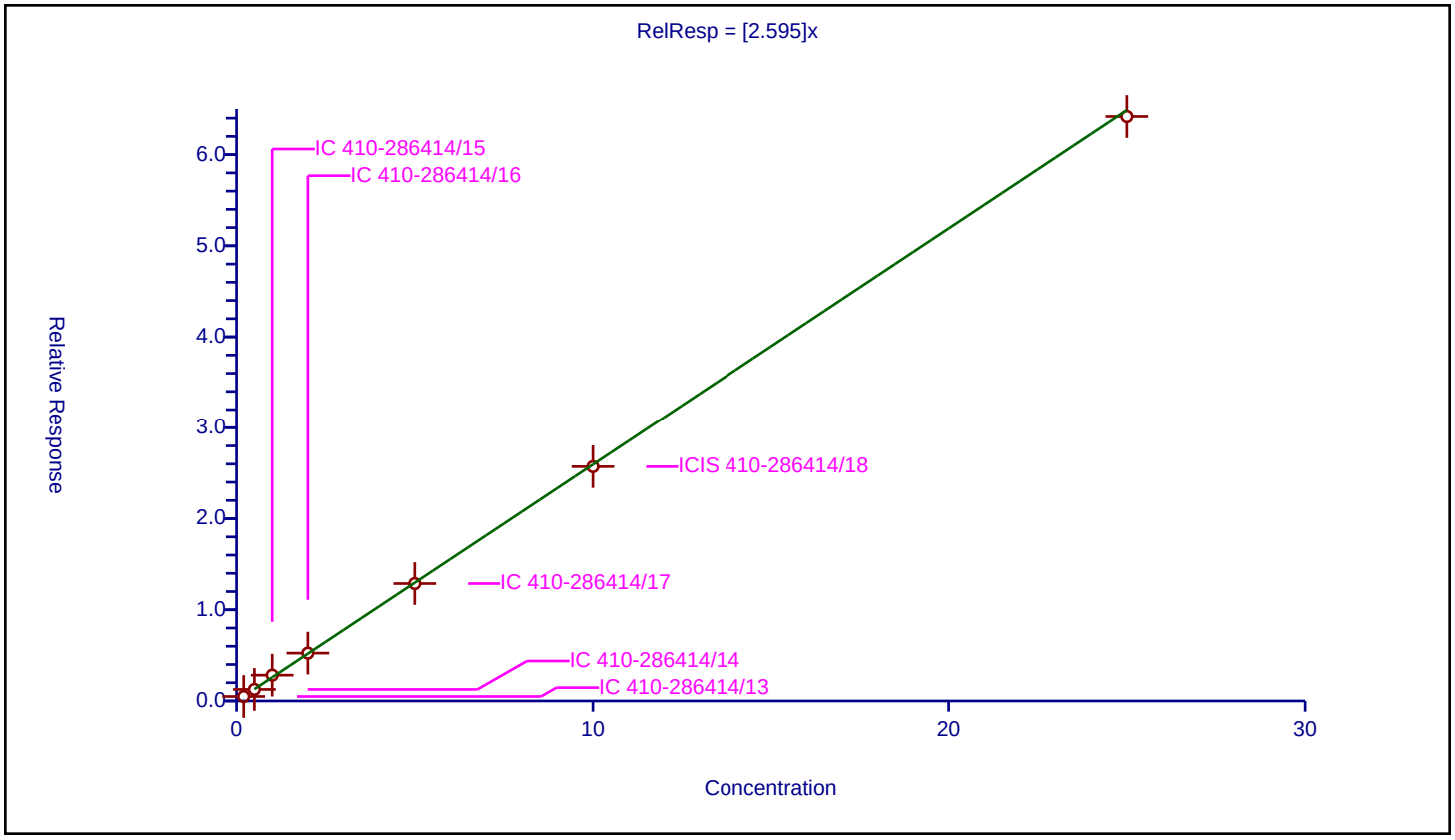
Curve Coefficients

Intercept:	0
Slope:	2.595

Error Coefficients

Standard Error:	3260000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.492356	10.0	1033318.0	2.461778	Y
2	IC 410-286414/14	0.5	1.267102	10.0	1047319.0	2.534204	Y
3	IC 410-286414/15	1.0	2.829985	10.0	1050836.0	2.829985	Y
4	IC 410-286414/16	2.0	5.248892	10.0	1056705.0	2.624446	Y
5	IC 410-286414/17	5.0	12.881376	10.0	1075545.0	2.576275	Y
6	ICIS 410-286414/18	10.0	25.720481	10.0	1096296.0	2.572048	Y
7	IC 410-286414/19	25.0	64.180265	10.0	1138282.0	2.567211	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

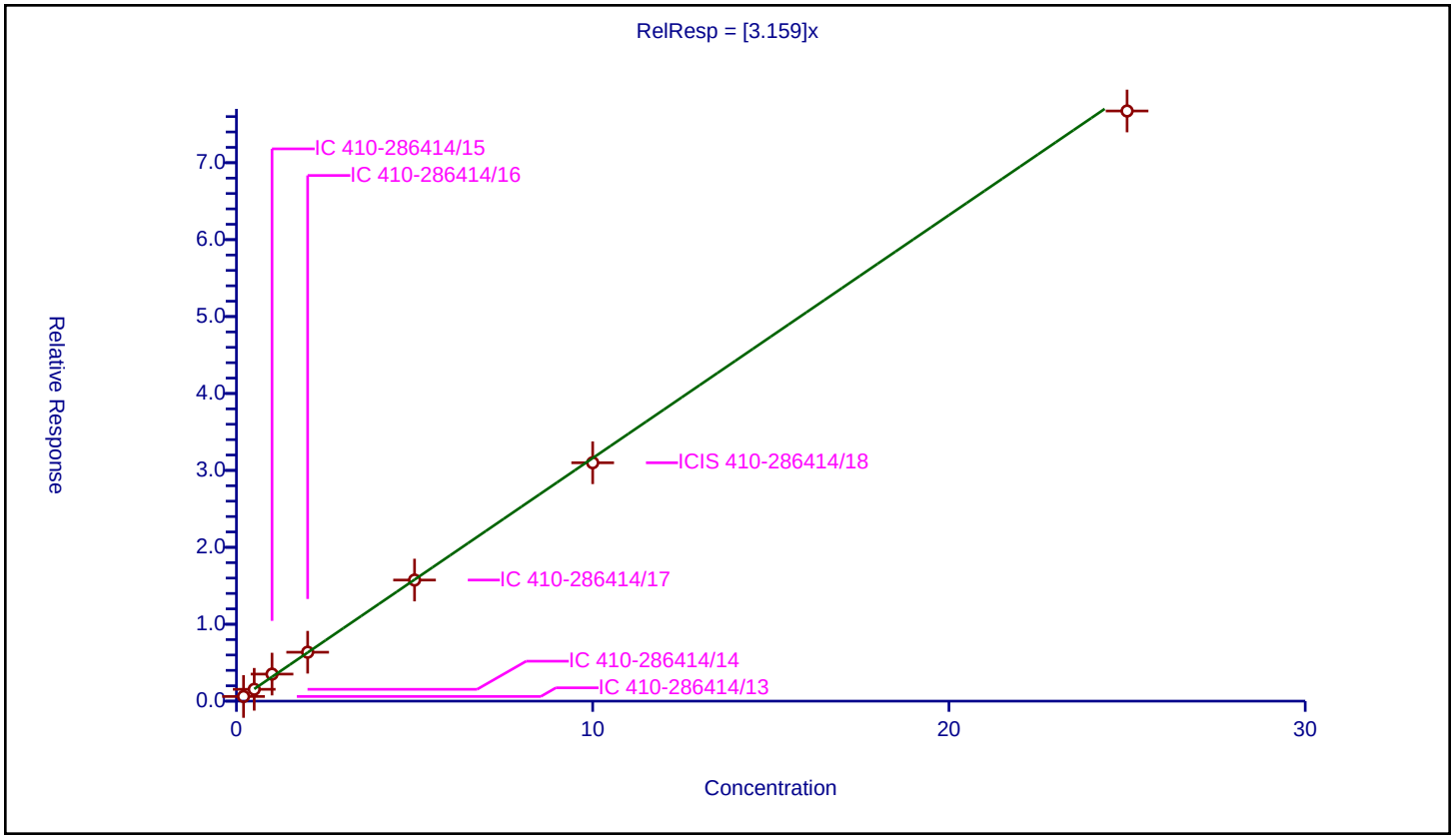
Curve Coefficients

Intercept:	0
Slope:	3.159

Error Coefficients

Standard Error:	3900000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.60418	10.0	1033318.0	3.0209	Y
2	IC 410-286414/14	0.5	1.540849	10.0	1047319.0	3.081697	Y
3	IC 410-286414/15	1.0	3.516143	10.0	1050836.0	3.516143	Y
4	IC 410-286414/16	2.0	6.360328	10.0	1056705.0	3.180164	Y
5	IC 410-286414/17	5.0	15.743563	10.0	1075545.0	3.148713	Y
6	ICIS 410-286414/18	10.0	30.994531	10.0	1096296.0	3.099453	Y
7	IC 410-286414/19	25.0	76.729273	10.0	1138282.0	3.069171	Y



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Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

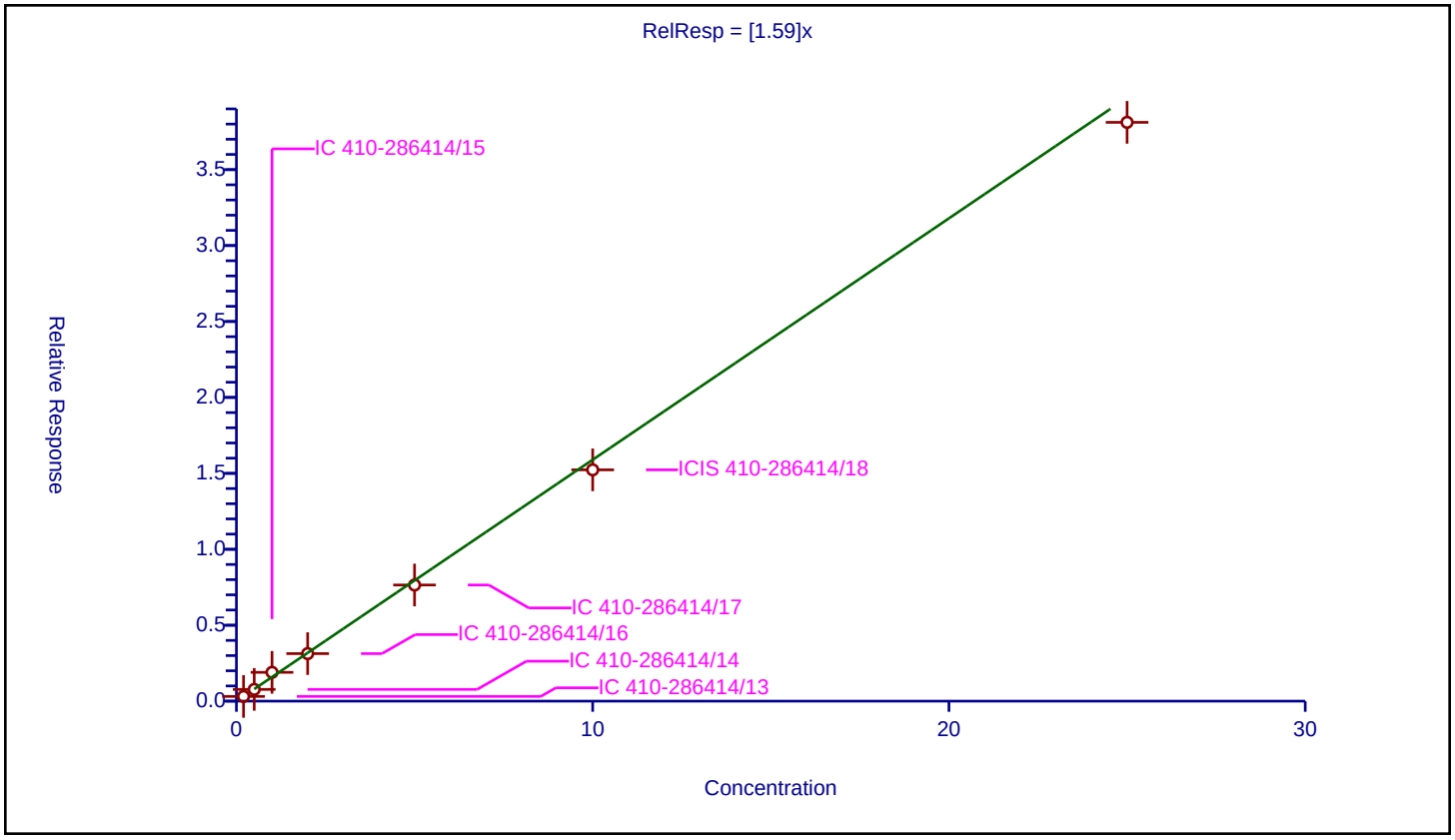
Curve Coefficients

Intercept:	0
Slope:	1.59

Error Coefficients

Standard Error:	1930000
Relative Standard Error:	8.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.30884	10.0	1033318.0	1.5442	Y
2	IC 410-286414/14	0.5	0.772649	10.0	1047319.0	1.545298	Y
3	IC 410-286414/15	1.0	1.896024	10.0	1050836.0	1.896024	Y
4	IC 410-286414/16	2.0	3.129208	10.0	1056705.0	1.564604	Y
5	IC 410-286414/17	5.0	7.647332	10.0	1075545.0	1.529466	Y
6	ICIS 410-286414/18	10.0	15.231744	10.0	1096296.0	1.523174	Y
7	IC 410-286414/19	25.0	38.113886	10.0	1138282.0	1.524555	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

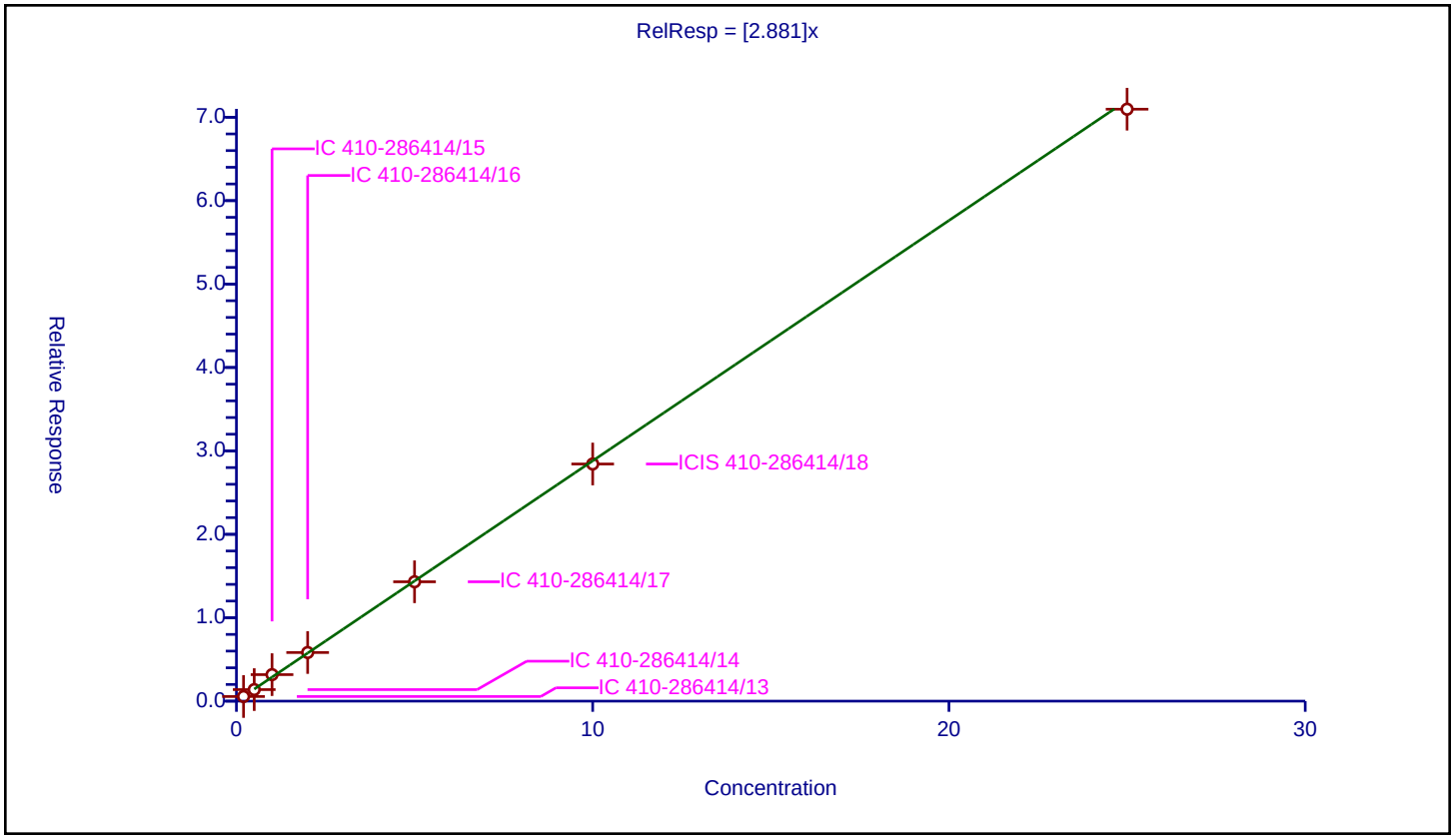
Curve Coefficients

Intercept:	0
Slope:	2.881

Error Coefficients

Standard Error:	3600000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.552792	10.0	1033318.0	2.76396	Y
2	IC 410-286414/14	0.5	1.384182	10.0	1047319.0	2.768364	Y
3	IC 410-286414/15	1.0	3.17748	10.0	1050836.0	3.17748	Y
4	IC 410-286414/16	2.0	5.827606	10.0	1056705.0	2.913803	Y
5	IC 410-286414/17	5.0	14.308681	10.0	1075545.0	2.861736	Y
6	ICIS 410-286414/18	10.0	28.428554	10.0	1096296.0	2.842855	Y
7	IC 410-286414/19	25.0	70.964937	10.0	1138282.0	2.838597	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

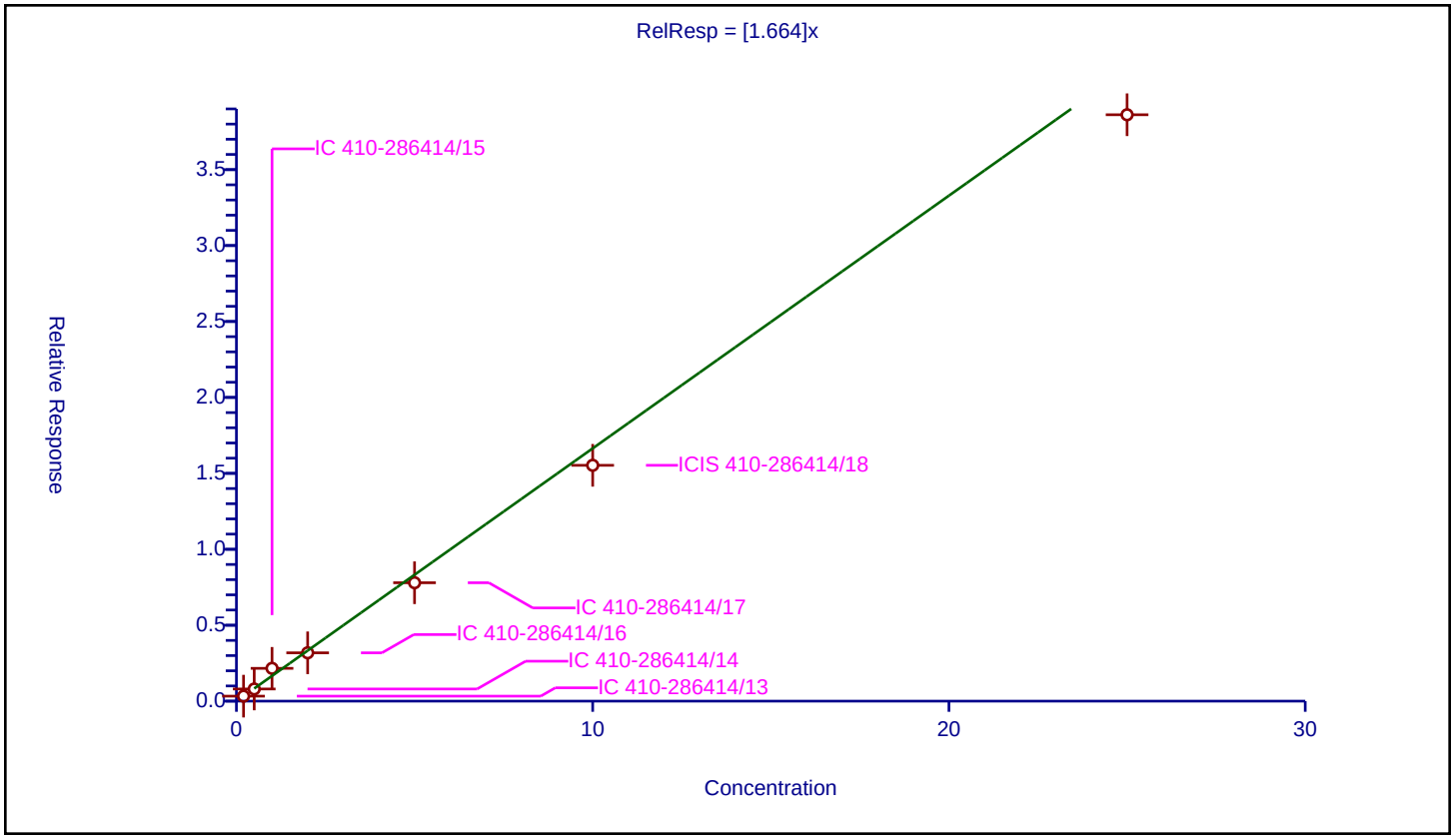
Curve Coefficients

Intercept:	0
Slope:	1.664

Error Coefficients

Standard Error:	1960000
Relative Standard Error:	13.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.328108	10.0	1033318.0	1.64054	Y
2	IC 410-286414/14	0.5	0.800568	10.0	1047319.0	1.601136	Y
3	IC 410-286414/15	1.0	2.160518	10.0	1050836.0	2.160518	Y
4	IC 410-286414/16	2.0	3.182818	10.0	1056705.0	1.591409	Y
5	IC 410-286414/17	5.0	7.797312	10.0	1075545.0	1.559462	Y
6	ICIS 410-286414/18	10.0	15.52962	10.0	1096296.0	1.552962	Y
7	IC 410-286414/19	25.0	38.613973	10.0	1138282.0	1.544559	Y



Calibration / 1,2,3-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

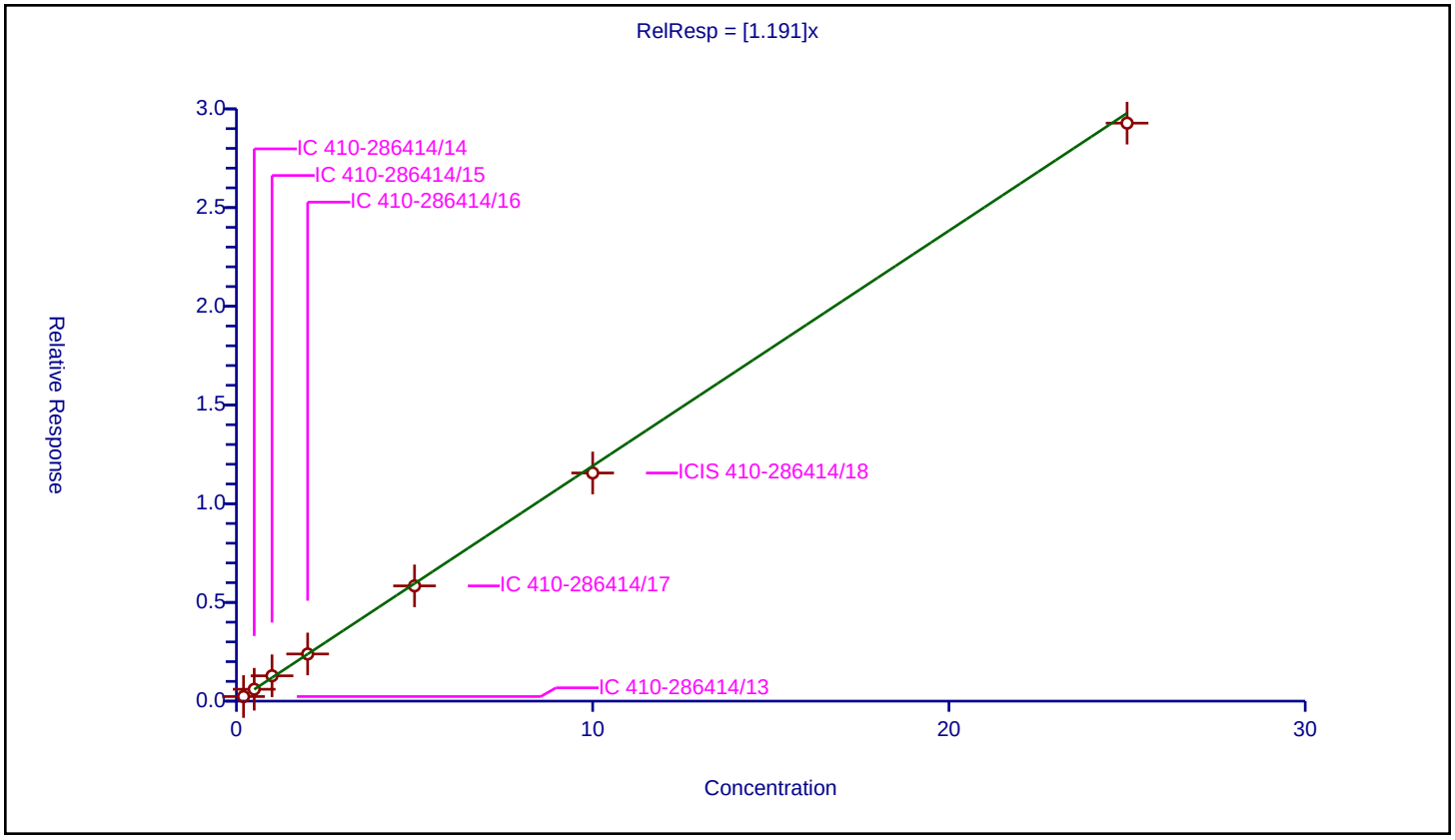
Curve Coefficients

Intercept:	0
Slope:	1.191

Error Coefficients

Standard Error:	1480000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.232445	10.0	1033318.0	1.162227	Y
2	IC 410-286414/14	0.5	0.602682	10.0	1047319.0	1.205363	Y
3	IC 410-286414/15	1.0	1.28394	10.0	1050836.0	1.28394	Y
4	IC 410-286414/16	2.0	2.388282	10.0	1056705.0	1.194141	Y
5	IC 410-286414/17	5.0	5.837859	10.0	1075545.0	1.167572	Y
6	ICIS 410-286414/18	10.0	11.557235	10.0	1096296.0	1.155723	Y
7	IC 410-286414/19	25.0	29.279168	10.0	1138282.0	1.171167	Y



Calibration / Benzyl chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

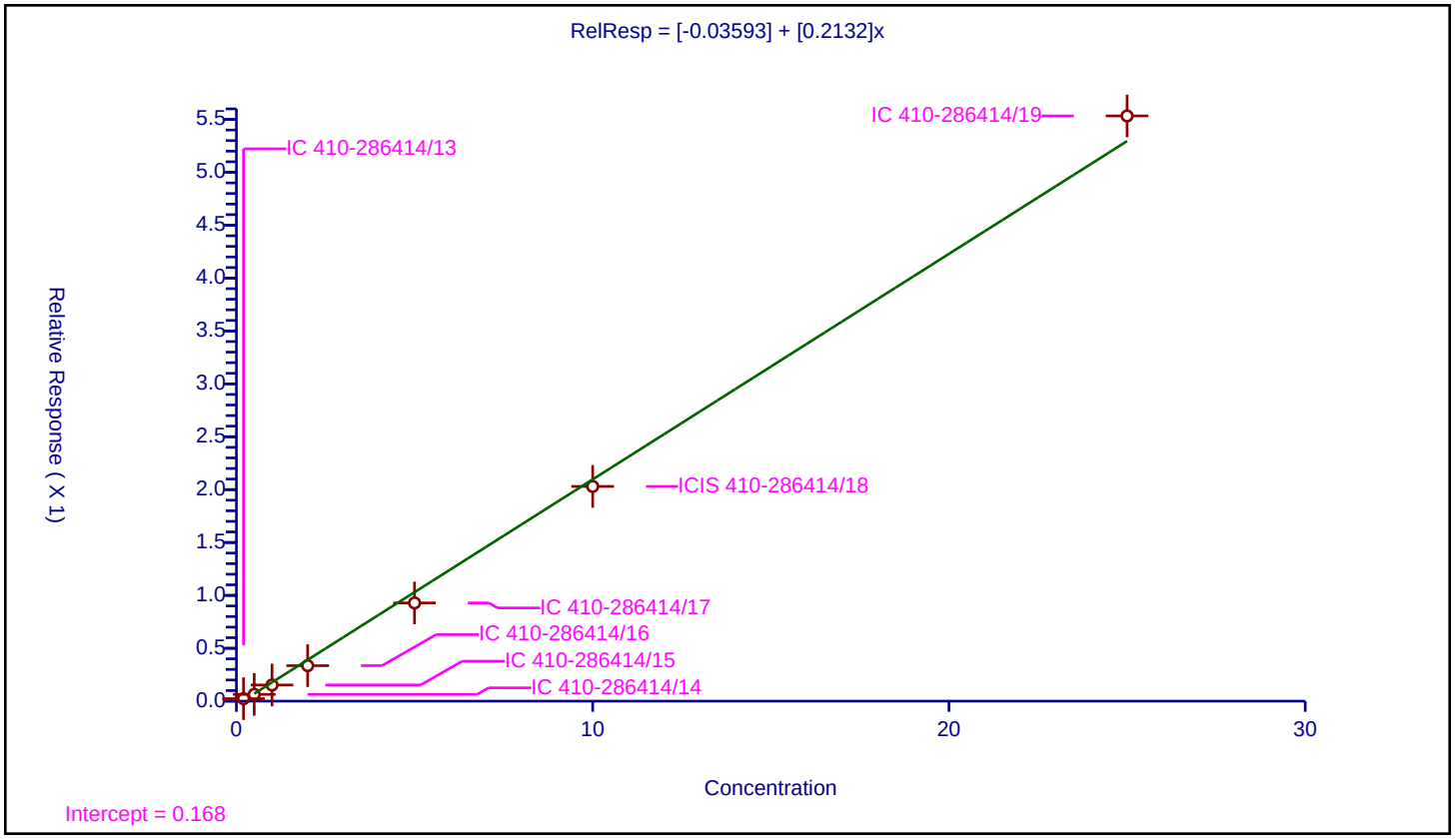
Curve Coefficients

Intercept:	-0.03593
Slope:	0.2132

Error Coefficients

Standard Error:	303000
Relative Standard Error:	19.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.023362	10.0	1033318.0	0.116808	Y
2	IC 410-286414/14	0.5	0.063858	10.0	1047319.0	0.127717	Y
3	IC 410-286414/15	1.0	0.152831	10.0	1050836.0	0.152831	Y
4	IC 410-286414/16	2.0	0.335477	10.0	1056705.0	0.167738	Y
5	IC 410-286414/17	5.0	0.928655	10.0	1075545.0	0.185731	Y
6	ICIS 410-286414/18	10.0	2.03009	10.0	1096296.0	0.203009	Y
7	IC 410-286414/19	25.0	5.533216	10.0	1138282.0	0.221329	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

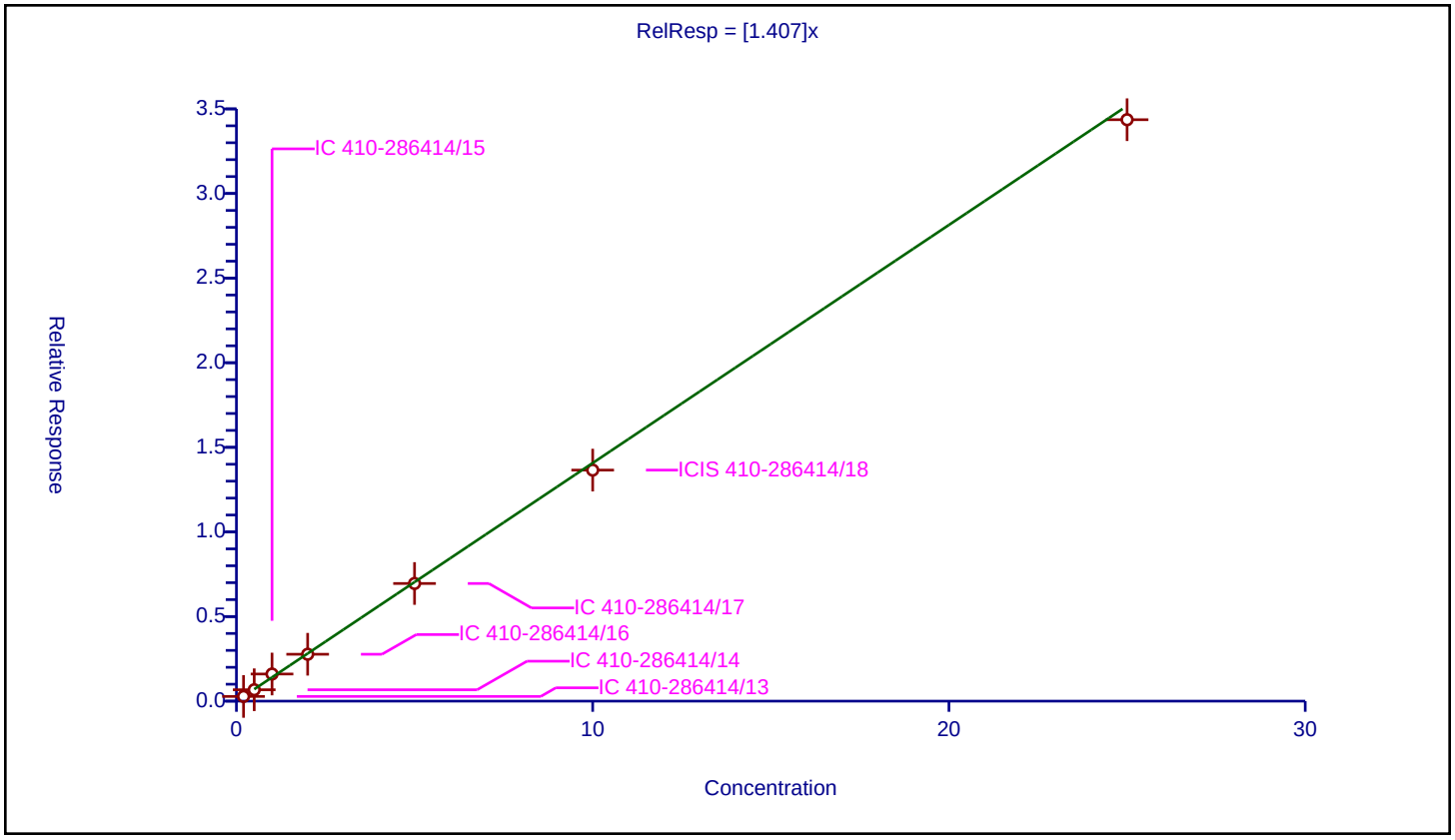
Curve Coefficients

Intercept:	0
Slope:	1.407

Error Coefficients

Standard Error:	1740000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.277204	10.0	1033318.0	1.386021	Y
2	IC 410-286414/14	0.5	0.672393	10.0	1047319.0	1.344786	Y
3	IC 410-286414/15	1.0	1.603485	10.0	1050836.0	1.603485	Y
4	IC 410-286414/16	2.0	2.77048	10.0	1056705.0	1.38524	Y
5	IC 410-286414/17	5.0	6.953219	10.0	1075545.0	1.390644	Y
6	ICIS 410-286414/18	10.0	13.653977	10.0	1096296.0	1.365398	Y
7	IC 410-286414/19	25.0	34.361055	10.0	1138282.0	1.374442	Y



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Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

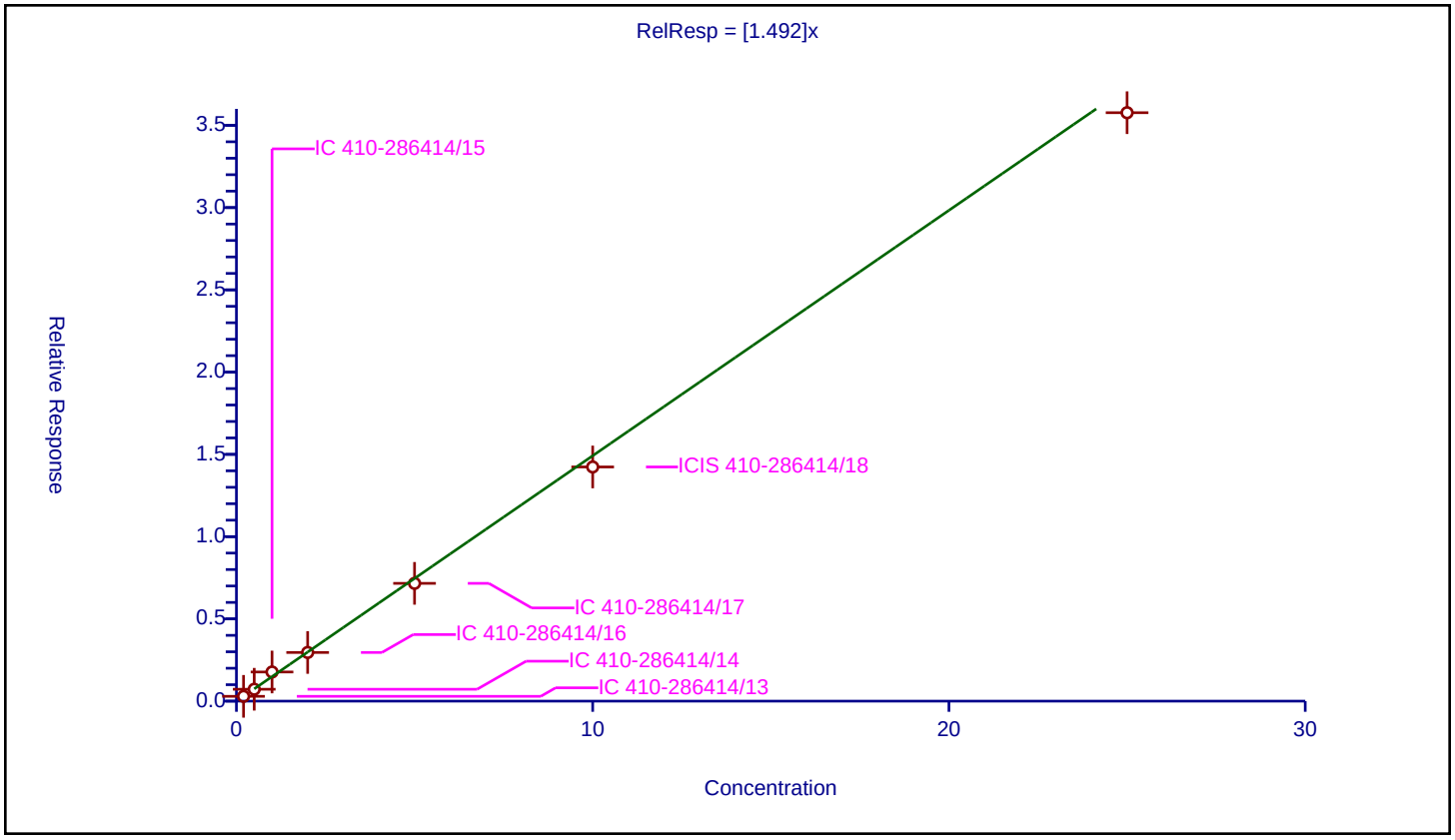
Curve Coefficients

Intercept:	0
Slope:	1.492

Error Coefficients

Standard Error:	1810000
Relative Standard Error:	8.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.291875	10.0	1033318.0	1.459376	Y
2	IC 410-286414/14	0.5	0.722846	10.0	1047319.0	1.445691	Y
3	IC 410-286414/15	1.0	1.771361	10.0	1050836.0	1.771361	Y
4	IC 410-286414/16	2.0	2.958044	10.0	1056705.0	1.479022	Y
5	IC 410-286414/17	5.0	7.159663	10.0	1075545.0	1.431933	Y
6	ICIS 410-286414/18	10.0	14.234477	10.0	1096296.0	1.423448	Y
7	IC 410-286414/19	25.0	35.767956	10.0	1138282.0	1.430718	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

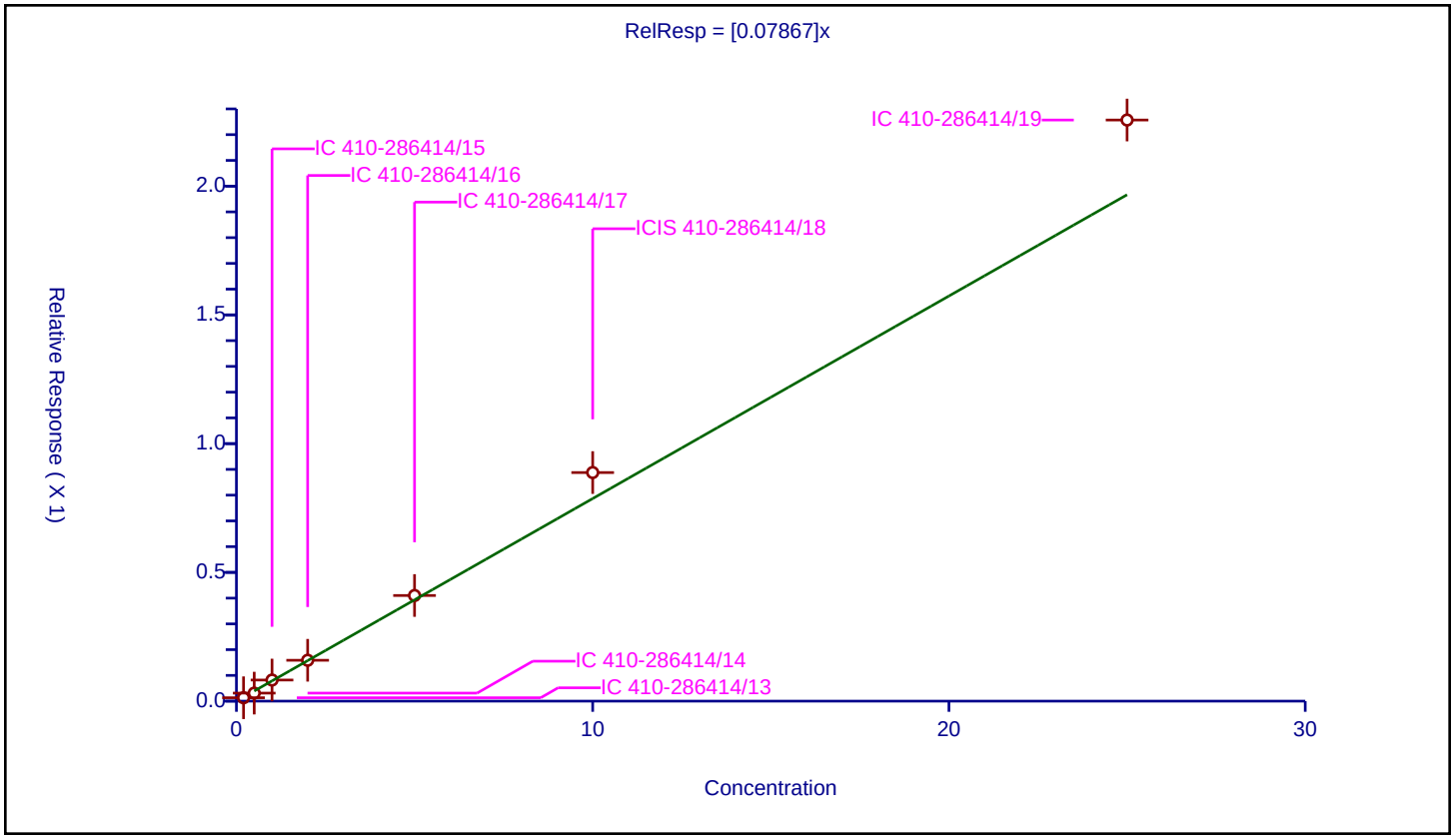
Curve Coefficients

Intercept:	0
Slope:	0.07867

Error Coefficients

Standard Error:	114000
Relative Standard Error:	13.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.013152	10.0	1033318.0	0.065759	Y
2	IC 410-286414/14	0.5	0.031223	10.0	1047319.0	0.062445	Y
3	IC 410-286414/15	1.0	0.08202	10.0	1050836.0	0.08202	Y
4	IC 410-286414/16	2.0	0.158701	10.0	1056705.0	0.07935	Y
5	IC 410-286414/17	5.0	0.410239	10.0	1075545.0	0.082048	Y
6	ICIS 410-286414/18	10.0	0.887726	10.0	1096296.0	0.088773	Y
7	IC 410-286414/19	25.0	2.256787	10.0	1138282.0	0.090271	Y



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Calibration / 1,3,5-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

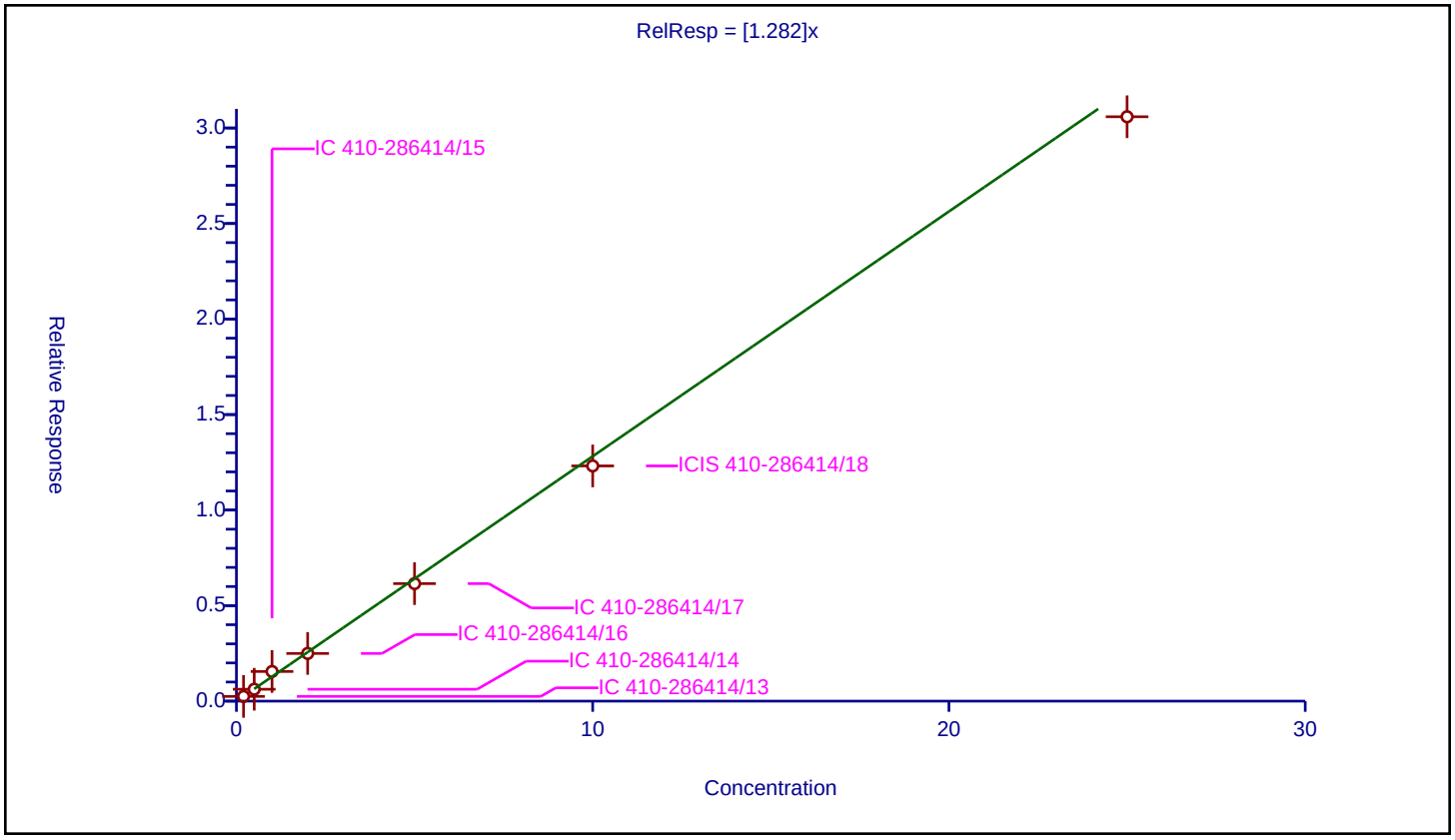
Curve Coefficients

Intercept:	0
Slope:	1.282

Error Coefficients

Standard Error:	1550000
Relative Standard Error:	9.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.2479	10.0	1033318.0	1.239502	Y
2	IC 410-286414/14	0.5	0.622504	10.0	1047319.0	1.245007	Y
3	IC 410-286414/15	1.0	1.552688	10.0	1050836.0	1.552688	Y
4	IC 410-286414/16	2.0	2.496562	10.0	1056705.0	1.248281	Y
5	IC 410-286414/17	5.0	6.151849	10.0	1075545.0	1.23037	Y
6	ICIS 410-286414/18	10.0	12.311939	10.0	1096296.0	1.231194	Y
7	IC 410-286414/19	25.0	30.589379	10.0	1138282.0	1.223575	Y



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Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

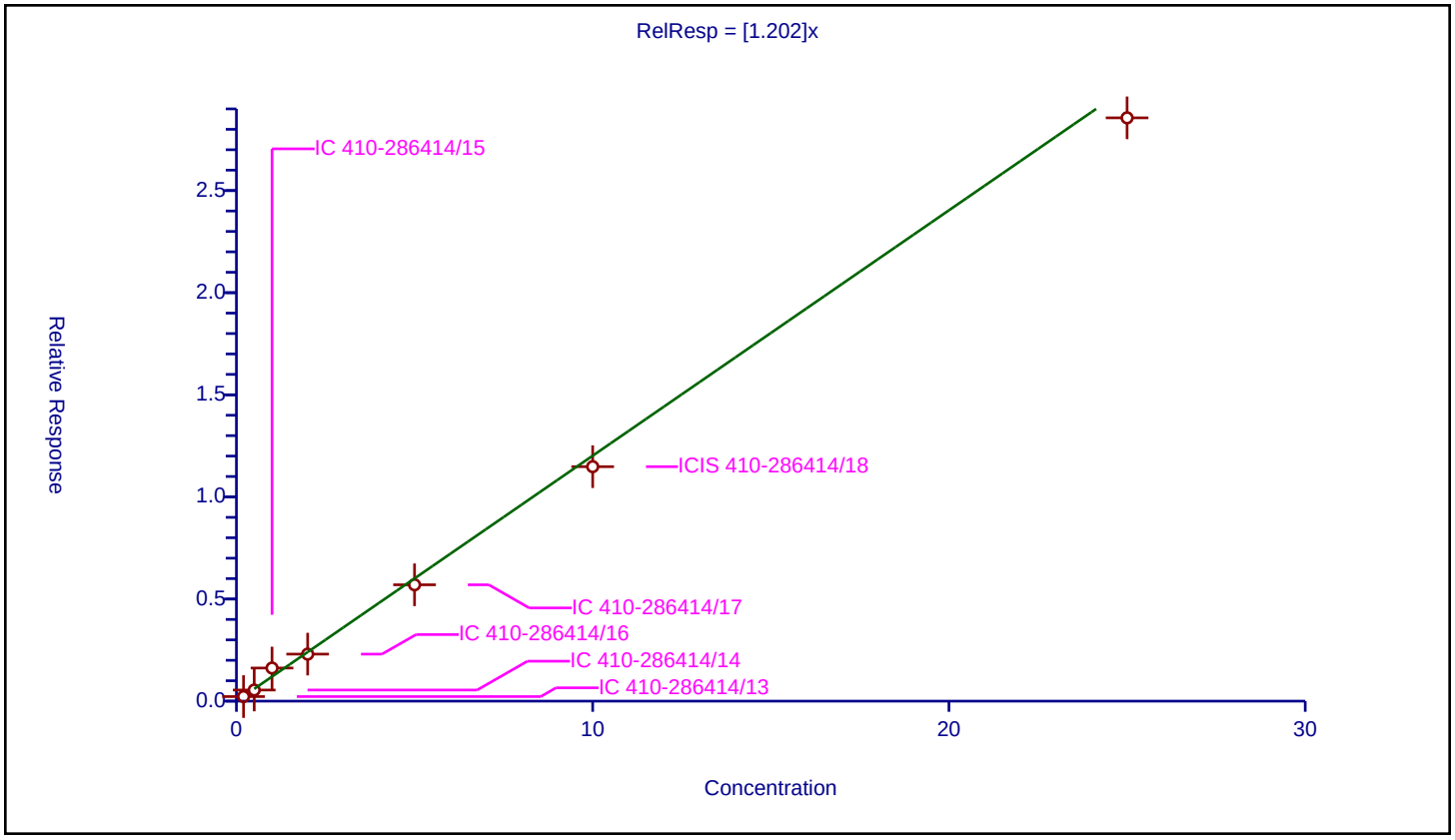
Curve Coefficients

Intercept:	0
Slope:	1.202

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	15.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.969

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.224152	10.0	1033318.0	1.120759	Y
2	IC 410-286414/14	0.5	0.544295	10.0	1047319.0	1.088589	Y
3	IC 410-286414/15	1.0	1.621538	10.0	1050836.0	1.621538	Y
4	IC 410-286414/16	2.0	2.302175	10.0	1056705.0	1.151088	Y
5	IC 410-286414/17	5.0	5.6974	10.0	1075545.0	1.13948	Y
6	ICIS 410-286414/18	10.0	11.481078	10.0	1096296.0	1.148108	Y
7	IC 410-286414/19	25.0	28.562325	10.0	1138282.0	1.142493	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

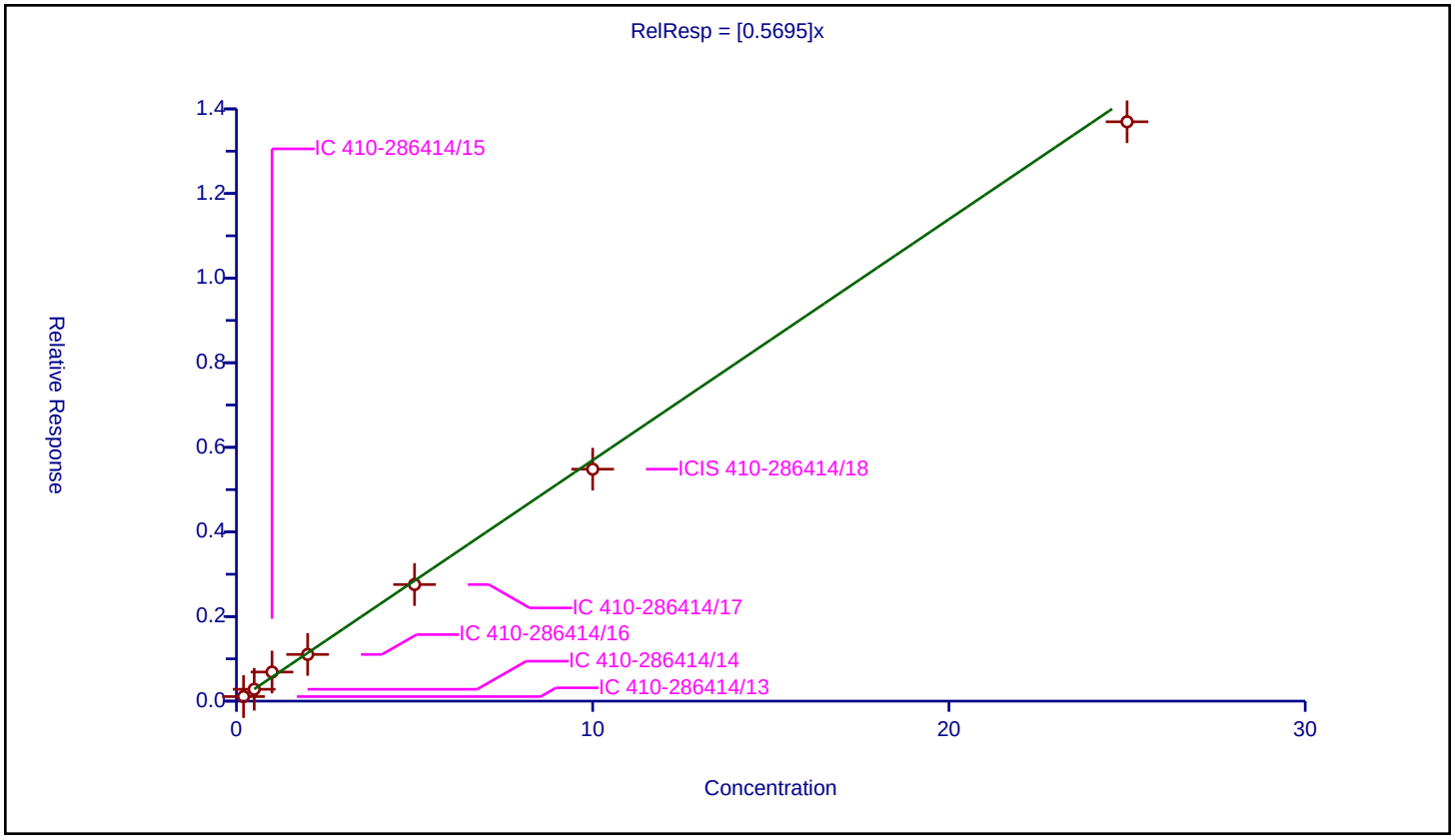
Curve Coefficients

Intercept:	0
Slope:	0.5695

Error Coefficients

Standard Error:	695000
Relative Standard Error:	9.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.107682	10.0	1033318.0	0.538411	Y
2	IC 410-286414/14	0.5	0.280488	10.0	1047319.0	0.560975	Y
3	IC 410-286414/15	1.0	0.687757	10.0	1050836.0	0.687757	Y
4	IC 410-286414/16	2.0	1.104301	10.0	1056705.0	0.55215	Y
5	IC 410-286414/17	5.0	2.756621	10.0	1075545.0	0.551324	Y
6	ICIS 410-286414/18	10.0	5.483756	10.0	1096296.0	0.548376	Y
7	IC 410-286414/19	25.0	13.695833	10.0	1138282.0	0.547833	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

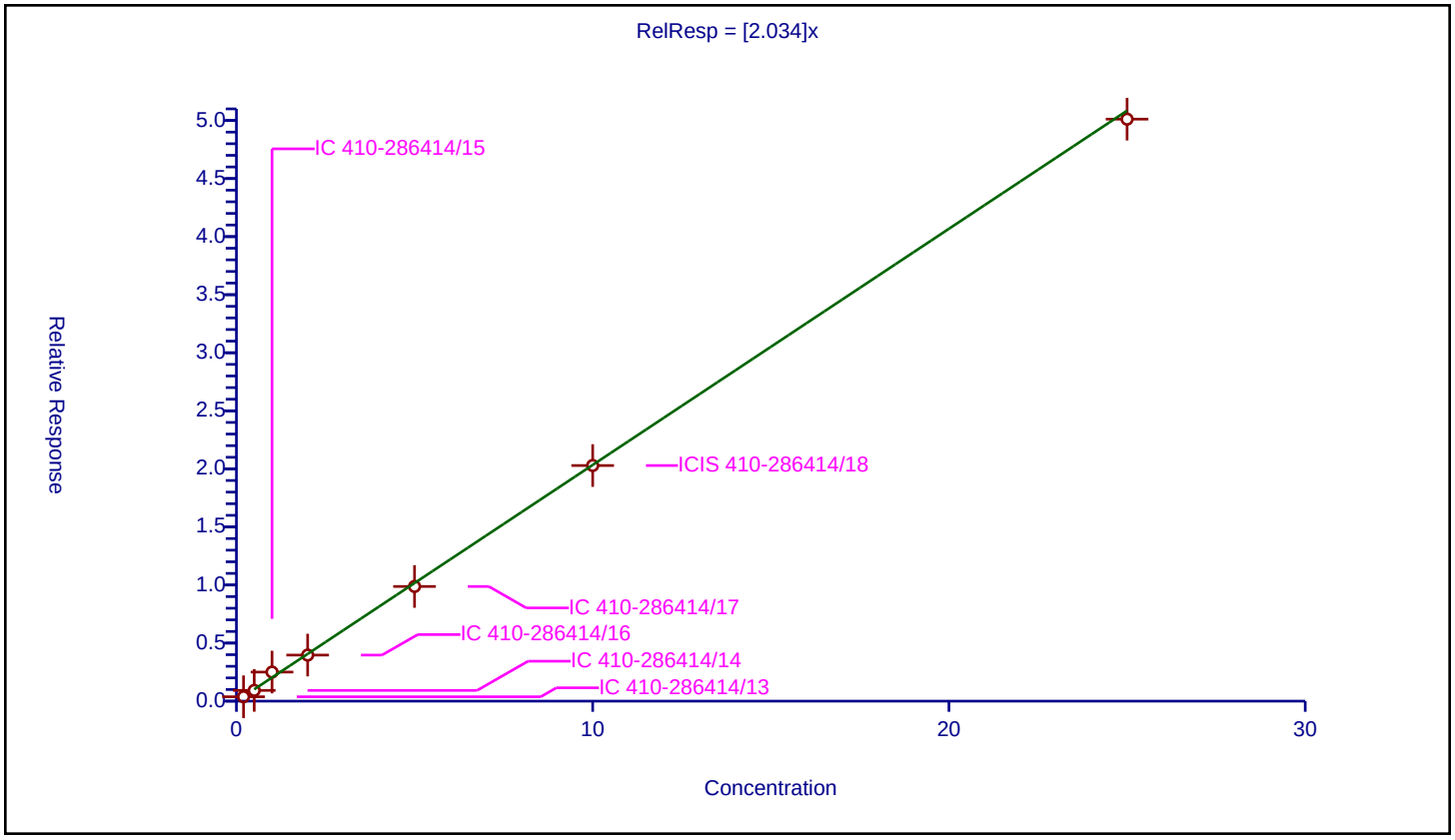
Curve Coefficients

Intercept:	0
Slope:	2.034

Error Coefficients

Standard Error:	2550000
Relative Standard Error:	10.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.378025	10.0	1033318.0	1.890125	Y
2	IC 410-286414/14	0.5	0.926213	10.0	1047319.0	1.852425	Y
3	IC 410-286414/15	1.0	2.502341	10.0	1050836.0	2.502341	Y
4	IC 410-286414/16	2.0	3.966197	10.0	1056705.0	1.983098	Y
5	IC 410-286414/17	5.0	9.875133	10.0	1075545.0	1.975027	Y
6	ICIS 410-286414/18	10.0	20.290369	10.0	1096296.0	2.029037	Y
7	IC 410-286414/19	25.0	50.1165	10.0	1138282.0	2.00466	Y



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Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

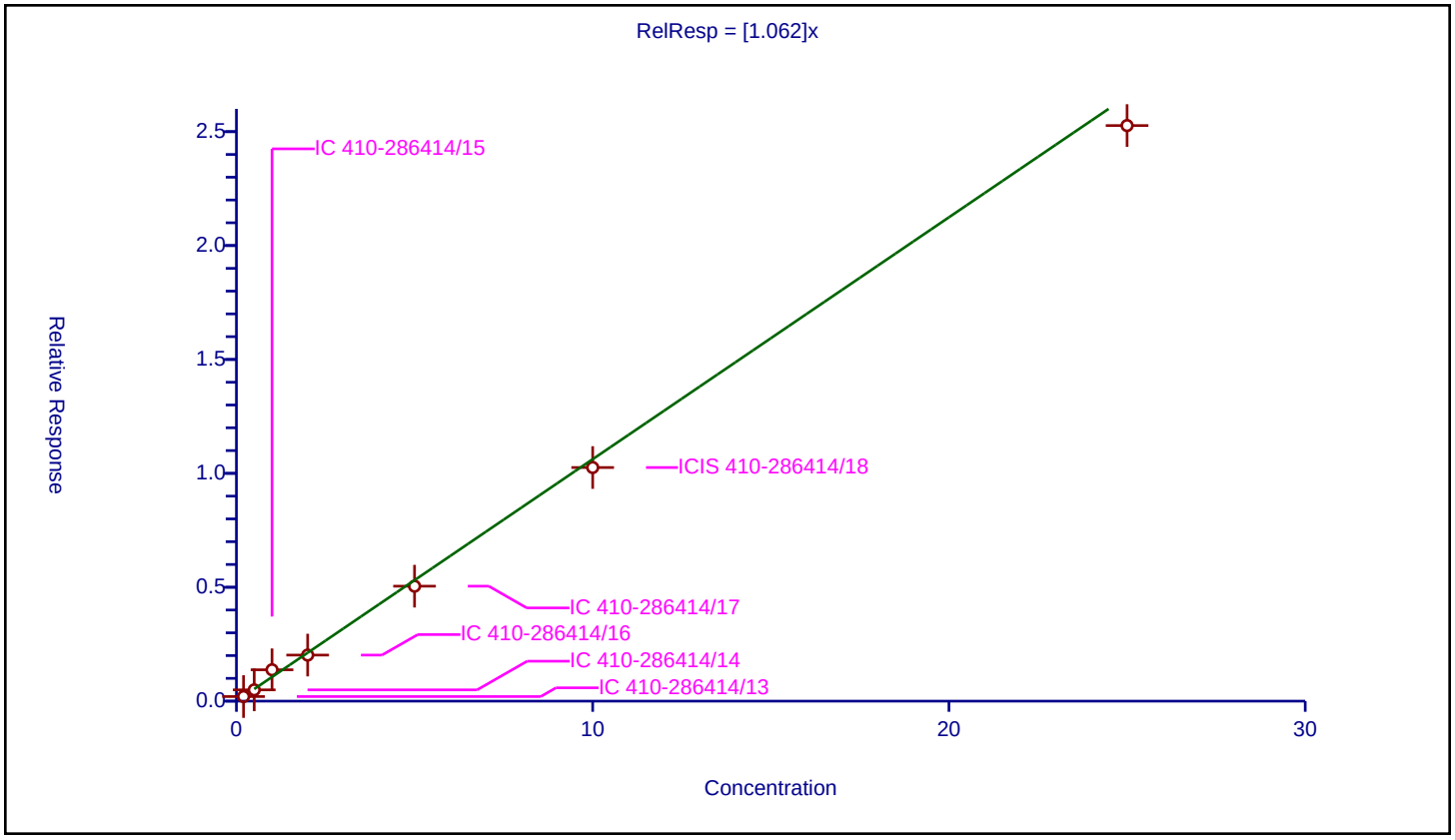
Curve Coefficients

Intercept:	0
Slope:	1.062

Error Coefficients

Standard Error:	1280000
Relative Standard Error:	13.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-286414/13	0.2	0.201961	10.0	1033318.0	1.009805	Y
2	IC 410-286414/14	0.5	0.495513	10.0	1047319.0	0.991026	Y
3	IC 410-286414/15	1.0	1.376637	10.0	1050836.0	1.376637	Y
4	IC 410-286414/16	2.0	2.022144	10.0	1056705.0	1.011072	Y
5	IC 410-286414/17	5.0	5.047515	10.0	1075545.0	1.009503	Y
6	ICIS 410-286414/18	10.0	10.255971	10.0	1096296.0	1.025597	Y
7	IC 410-286414/19	25.0	25.267956	10.0	1138282.0	1.010718	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 305355

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2022 18:14 Calibration End Date: 10/11/2022 20:20 Calibration ID: 43087

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-305355/18	IC11X17.D
Level 2	IC 410-305355/17	IC11X16.D
Level 3	IC 410-305355/16	IC11X15.D
Level 4	IC 410-305355/15	IC11X14.D
Level 5	IC 410-305355/14	IC11X13.D
Level 6	ICIS 410-305355/13	IC11X12.D
Level 7	IC 410-305355/12	IC11X11.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	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	0.3766 0.4582	0.3637 0.4307	0.4193	0.4531	0.4022	Ave		0.4148			0.1000	8.7		20.0			
Chloromethane	0.4409 0.4075	0.4137 0.3917	0.4240	0.4335	0.3700	Ave		0.4116			0.1000	6.0		20.0			
Vinyl chloride	0.4093 0.4186	0.3905 0.3968	0.3981	0.4260	0.3839	Ave		0.4033			0.1000	3.8		20.0			
1,3-Butadiene	0.4386 0.3517	0.3462 0.3286	0.3461	0.3518	0.3244	Ave		0.3554				10.8		20.0			
Bromomethane	0.2949 0.2859	0.2822 0.2718	0.2940	0.2959	0.2648	Ave		0.2842			0.1000	4.3		20.0			
Chloroethane	0.2447 0.2452	0.2446 0.2341	0.2451	0.2469	0.2228	Ave		0.2405			0.1000	3.7		20.0			
Dichlorofluoromethane	0.5750 0.5721	0.5602 0.5457	0.5775	0.5832	0.5259	Ave		0.5628			0.1000	3.6		20.0			
Trichlorofluoromethane	0.5350 0.5978	0.5254 0.5654	0.5856	0.6039	0.5409	Ave		0.5649			0.1000	5.6		20.0			
Ethyl ether	0.1987 0.2002	0.2096 0.1978	0.2081	0.2087	0.1908	Ave		0.2020				3.5		20.0			
Freon 123a	0.3394 0.3563	0.3343 0.3408	0.3486	0.3634	0.3259	Ave		0.3441				3.8		20.0			
Acrolein	2.7878 2.8805	2.8884 3.2300	2.9736	2.6502	2.6399	Ave		2.8643				7.1		20.0			
1,1-Dichloroethene	0.2827 0.2573	0.2621 0.2497	0.2714	0.2445	0.2465	Ave		0.2592			0.1000	5.4		20.0			
Acetone	4.1559 3.1454	3.4784 2.9745	3.4676	2.9695	2.7058	Ave		3.2710			0.1000	14.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 305355

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2022 18:14 Calibration End Date: 10/11/2022 20:20 Calibration ID: 43087

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Freon 113	0.2552 0.2647	0.2450 0.2543	0.2617	0.2377	0.2492	Ave		0.2525			0.1000	3.7		20.0			
Methyl iodide	0.4963 0.4707	0.4774 0.4616	0.4956	0.4603	0.4543	Ave		0.4737				3.6		20.0			
Carbon disulfide	0.7253 0.6371	0.6412 0.6211	0.6669	0.6093	0.6132	Ave		0.6449			0.1000	6.3		20.0			
Methyl acetate	12.077 8.4166	11.191 8.9793	8.8585	8.0179	7.5394	Ave		9.2970			0.1000	18.2		20.0			
Allyl chloride	0.3926 0.3693	0.3682 0.3696	0.3876	0.3625	0.3523	Ave		0.3717				3.8		20.0			
Methylene Chloride	0.2868 0.2696	0.2771 0.2622	0.2841	0.2704	0.2611	Ave		0.2730			0.1000	3.7		20.0			
t-Butyl alcohol	1.0178 1.1871	1.1554 0.9047	1.1291	1.0598	0.9928	Ave		1.0638				9.4		20.0			
Acrylonitrile	3.4060 4.4174	4.0708 4.6701	4.3390	4.1527	4.0608	Ave		4.1595				9.5		20.0			
Methyl tertiary butyl ether	0.6701 0.6467	0.6539 0.6295	0.6748	0.6642	0.6341	Ave		0.6533			0.1000	2.7		20.0			
trans-1,2-Dichloroethene	0.3083 0.2854	0.2860 0.2795	0.2987	0.2767	0.2754	Ave		0.2871			0.1000	4.2		20.0			
n-Hexane	0.3939 0.3909	0.3556 0.3650	0.3818	0.3460	0.3593	Ave		0.3704				5.0		20.0			
1,1-Dichloroethane	0.5305 0.5140	0.5200 0.5033	0.5198	0.5001	0.4990	Ave		0.5124			0.2000	2.3		20.0			
di-Isopropyl ether	0.8063 0.7886	0.7880 0.7688	0.8049	0.7899	0.7565	Ave		0.7861				2.3		20.0			
2-Chloro-1,3-butadiene	0.4143 0.4185	0.3947 0.4103	0.4181	0.3912	0.3948	Ave		0.4060				2.9		20.0			
Ethyl t-butyl ether	0.8774 0.7845	0.8074 0.7557	0.8246	0.8069	0.7632	Ave		0.8028				5.1		20.0			
2-Butanone	6.0450 5.8950	5.8295 6.6491	5.8886	5.6915	5.4832	Ave		5.9260			0.1000	6.2		20.0			
cis-1,2-Dichloroethene	0.3336 0.3155	0.3219 0.3094	0.3280	0.3070	0.3044	Ave		0.3171			0.1000	3.5		20.0			
2,2-Dichloropropane	0.5073 0.4555	0.4494 0.4456	0.4782	0.4448	0.4407	Ave		0.4602				5.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 305355

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2022 18:14 Calibration End Date: 10/11/2022 20:20 Calibration ID: 43087

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	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								
Propionitrile	1.2840 1.5585	1.5083 1.7129	1.6821	1.6405	1.5526	Ave		1.5627				9.2		20.0			
Methacrylonitrile	6.0831 6.3486	6.3944 7.2565	6.3881	6.0692	6.0983	Ave		6.3769				6.5		20.0			
Bromochloromethane	0.1429 0.1398	0.1451 0.1371	0.1431	0.1398	0.1353	Ave		0.1404				2.5		20.0			
Tetrahydrofuran	1.5417 1.7836	1.7305 2.0065	1.7790	1.6966	1.6697	Ave		1.7439				8.1		20.0			
Chloroform	0.5321 0.5148	0.5189 0.5050	0.5286	0.5063	0.4957	Ave		0.5145			0.2000	2.6		20.0			
1,1,1-Trichloroethane	0.4950 0.4931	0.4962 0.4823	0.5087	0.4697	0.4734	Ave		0.4884			0.1000	2.8		20.0			
Cyclohexane	0.4759 0.4722	0.4410 0.4527	0.4626	0.4218	0.4381	Ave		0.4520			0.1000	4.3		20.0			
1,1-Dichloropropene	0.4238 0.4167	0.4097 0.4079	0.4191	0.3916	0.3943	Ave		0.4090				3.0		20.0			
Carbon tetrachloride	0.4353 0.4386	0.4130 0.4320	0.4329	0.4095	0.4146	Ave		0.4252			0.1000	2.9		20.0			
Isobutyl alcohol	0.3878 0.3817	0.4025 0.3016	0.3933	0.3535	0.3447	Ave		0.3664				9.7		20.0			
Benzene	1.2327 1.1747	1.2044 1.1587	1.2271	1.1577	1.1373	Ave		1.1847			0.5000	3.1		20.0			
1,2-Dichloroethane	0.3352 0.3185	0.3360 0.3041	0.3253	0.3223	0.3062	Ave		0.3211			0.1000	3.9		20.0			
t-Amyl methyl ether	0.7474 0.7438	0.7310 0.7175	0.7618	0.7556	0.7225	Ave		0.7400				2.3		20.0			
n-Heptane	0.4651 0.3796	0.3915 0.3601	0.3918	0.3571	0.3578	Ave		0.3861				9.8		20.0			
n-Butanol	0.2262 0.3810	0.2971 0.2900	0.3075	0.3212	0.3494	Ave		0.3104				15.7		20.0			
Trichloroethene	0.3554 0.3265	0.3191 0.3212	0.3308	0.3111	0.3123	Ave		0.3252			0.2000	4.6		20.0			
Methylcyclohexane	0.5466 0.5520	0.5117 0.5213	0.5350	0.5007	0.5133	Ave		0.5258			0.1000	3.7		20.0			
1,2-Dichloropropane	0.2930 0.2913	0.2807 0.2890	0.2932	0.2820	0.2785	Ave		0.2868			0.1000	2.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 305355

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2022 18:14 Calibration End Date: 10/11/2022 20:20 Calibration ID: 43087

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	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								
Methyl methacrylate	8.4172 12.745	10.180 14.731	11.666	11.401	11.839	Ave		11.569				17.1		20.0			
1,4-Dioxane	+++++ 0.1109	0.0716 +++++	0.1017	0.1062	0.1120	Ave		0.1005			0.0050	16.6		20.0			
Dibromomethane	0.1425 0.1453	0.1432 0.1431	0.1453	0.1446	0.1397	Ave		0.1434				1.4		20.0			
Bromodichloromethane	0.3345 0.3671	0.3314 0.3674	0.3558	0.3512	0.3460	Ave		0.3505			0.2000	4.1		20.0			
2-Nitropropane	3.2169 3.6083	3.3879 4.1741	3.4578	3.4264	3.3580	Ave		3.5185				8.9		20.0			
cis-1,3-Dichloropropene	0.4251 0.4569	0.4125 0.4564	0.4371	0.4397	0.4300	Ave		0.4368			0.2000	3.7		20.0			
4-Methyl-2-pentanone	14.276 15.950	15.047 17.682	15.404	15.695	15.328	Ave		15.626			0.1000	6.7		20.0			
Toluene	1.0751 1.0436	1.0596 1.0201	1.0790	1.0075	0.9877	Ave		1.0389			0.4000	3.4		20.0			
trans-1,3-Dichloropropene	0.4202 0.5016	0.4326 0.4989	0.4669	0.4801	0.4665	Ave		0.4667			0.1000	6.6		20.0			
Ethyl methacrylate	0.3045 0.3950	0.3442 0.3884	0.3623	0.3863	0.3709	Ave		0.3645				8.7		20.0			
1,1,2-Trichloroethane	0.2672 0.2754	0.2834 0.2682	0.2847	0.2765	0.2633	Ave		0.2741			0.1000	3.0		20.0			
Tetrachloroethene	0.5105 0.5072	0.5217 0.4978	0.5236	0.4903	0.4863	Ave		0.5053			0.2000	2.9		20.0			
1,3-Dichloropropane	0.4423 0.4642	0.4685 0.4538	0.4732	0.4683	0.4450	Ave		0.4593				2.7		20.0			
2-Hexanone	9.5023 11.058	10.420 12.393	11.111	11.164	10.918	Ave		10.938			0.1000	8.0		20.0			
Dibromochloromethane	0.2711 0.3525	0.2893 0.3569	0.3251	0.3349	0.3266	Ave		0.3223				9.8		20.0			
1,2-Dibromoethane	0.2551 0.2717	0.2593 0.2661	0.2724	0.2720	0.2602	Ave		0.2652			0.1000	2.7		20.0			
1-Chlorohexane	0.6801 0.5939	0.6016 0.5750	0.6052	0.5510	0.5606	Ave		0.5954				7.2		20.0			
Chlorobenzene	1.2094 1.1549	1.1842 1.1150	1.2015	1.1418	1.0986	Ave		1.1579			0.5000	3.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 305355

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2022 18:14 Calibration End Date: 10/11/2022 20:20 Calibration ID: 43087

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	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								
1,1,1,2-Tetrachloroethane	0.4011 0.4147	0.3869 0.4091	0.4084	0.4026	0.3885	Ave		0.4016				2.6		20.0			
Ethylbenzene	2.0216 2.0063	2.0338 1.9481	2.0605	1.9357	1.9230	Ave		1.9899			0.1000	2.7		20.0			
m&p-Xylene	0.7974 0.7982	0.7959 0.7821	0.8287	0.7747	0.7635	Ave		0.7915			0.1000	2.6		20.0			
o-Xylene	0.7874 0.7852	0.7777 0.7701	0.7945	0.7517	0.7450	Ave		0.7731			0.3000	2.4		20.0			
Styrene	1.1717 1.2870	1.1805 1.2470	1.2447	1.2028	1.2043	Ave		1.2197			0.3000	3.4		20.0			
Bromoform	+++++ 0.2029	0.1343 0.2111	0.1603	0.1723	0.1814	Ave		0.1770			0.1000	15.9		20.0			
Isopropylbenzene	2.0158 2.0745	2.0202 1.9800	2.1095	1.9834	1.9560	Ave		2.0199			0.1000	2.7		20.0			
1,1,2,2-Tetrachloroethane	0.5593 0.5975	0.5662 0.5769	0.5973	0.5960	0.5711	Ave		0.5806			0.3000	2.8		20.0			
Bromobenzene	0.8555 0.8376	0.7944 0.8115	0.8435	0.8091	0.8101	Ave		0.8231				2.7		20.0			
trans-1,4-Dichloro-2-butene	4.9661 6.1089	5.4513 7.0921	5.7016	5.6635	5.8370	Ave		5.8315				11.3		20.0			
1,2,3-Trichloropropane	0.1503 0.1673	0.1644 0.1597	0.1670	0.1692	0.1607	Ave		0.1627				4.0		20.0			
N-Propylbenzene	3.8037 4.1933	3.8302 3.9321	4.0402	3.8247	3.9208	Ave		3.9350				3.6		20.0			
2-Chlorotoluene	0.8116 0.8460	0.8337 0.8232	0.8568	0.8091	0.8153	Ave		0.8280				2.2		20.0			
1,3,5-Trimethylbenzene	2.8910 3.0176	2.8731 2.8839	2.9708	2.8481	2.8722	Ave		2.9081				2.1		20.0			
4-Chlorotoluene	0.8285 0.8645	0.8374 0.8374	0.8807	0.8247	0.8288	Ave		0.8431				2.5		20.0			
tert-Butylbenzene	0.6834 0.6728	0.6248 0.6431	0.6655	0.6226	0.6356	Ave		0.6497				3.7		20.0			
Pentachloroethane	0.4675 0.5584	0.5040 0.5632	0.5311	0.5289	0.5094	Ave		0.5232				6.3		20.0			
1,2,4-Trimethylbenzene	2.7637 3.0803	2.8735 2.9472	3.0304	2.8781	2.9087	Ave		2.9260				3.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 305355

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2022 18:14 Calibration End Date: 10/11/2022 20:20 Calibration ID: 43087

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	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								
sec-Butylbenzene	3.6166 3.8422	3.6313 3.5612	3.7960	3.5992	3.6651	Ave		3.6731				2.9		20.0			
1,3-Dichlorobenzene	1.6108 1.6718	1.5510 1.6185	1.6373	1.5806	1.5841	Ave		1.6077			0.6000	2.5		20.0			
p-Isopropyltoluene	3.0991 3.3783	3.1426 3.1715	3.3096	3.1219	3.2110	Ave		3.2048				3.2		20.0			
1,4-Dichlorobenzene	1.7317 1.6821	1.6827 1.6250	1.7312	1.6673	1.6310	Ave		1.6787			0.5000	2.5		20.0			
1,2,3-Trimethylbenzene	1.3087 1.3243	1.2745 1.2899	1.3322	1.2449	1.2583	Ave		1.2904				2.6		20.0			
Benzyl chloride	0.1895 0.2592	0.2000 0.2614	0.2283	0.2406	0.2363	Ave		0.2308				11.9		20.0			
n-Butylbenzene	1.3408 1.6020	1.4068 1.5397	1.5166	1.4360	1.5055	Ave		1.4782				6.0		20.0			
1,2-Dichlorobenzene	1.4680 1.5226	1.4984 1.4646	1.5533	1.5103	1.4662	Ave		1.4976			0.4000	2.3		20.0			
1,2-Dibromo-3-Chloropropane	0.0492 0.0936	0.0695 0.0917	0.0819	0.0918	0.0887	Ave		0.0809			0.0500	20.1	*	20.0			
1,3,5-Trichlorobenzene	1.1027 1.2201	1.1126 1.1634	1.1739	1.1402	1.1396	Ave		1.1504				3.5		20.0			
1,2,4-Trichlorobenzene	0.9549 1.0582	0.9276 0.9990	1.0091	0.9896	0.9936	Ave		0.9903			0.2000	4.2		20.0			
Hexachlorobutadiene	0.5808 0.4136	0.4683 0.3966	0.4339	0.3983	0.3894	Ave		0.4401				15.4		20.0			
Naphthalene	1.7550 1.9557	1.7461 1.7823	1.8566	1.8985	1.8421	Ave		1.8338				4.2		20.0			
1,2,3-Trichlorobenzene	0.8524 0.9052	0.8014 0.8260	0.8581	0.8793	0.8528	Ave		0.8536				4.0		20.0			
Dibromofluoromethane (Surr)	0.2516 0.2516	0.2528 0.2528	0.2511	0.2539	0.2525	Ave		0.2523				0.4		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0506 0.0498	0.0504 0.0499	0.0490	0.0512	0.0497	Ave		0.0501				1.4		20.0			
Toluene-d8 (Surr)	1.3137 1.3210	1.3452 1.3170	1.3256	1.3232	1.3102	Ave		1.3223				0.9		20.0			
4-Bromofluorobenzene (Surr)	0.4873 0.4876	0.4979 0.4912	0.4872	0.4881	0.4862	Ave		0.4894				0.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 305355

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2022 18:14 Calibration End Date: 10/11/2022 20:20 Calibration ID: 43087

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-305355/18	IC11X17.D
Level 2	IC 410-305355/17	IC11X16.D
Level 3	IC 410-305355/16	IC11X15.D
Level 4	IC 410-305355/15	IC11X14.D
Level 5	IC 410-305355/14	IC11X13.D
Level 6	ICIS 410-305355/13	IC11X12.D
Level 7	IC 410-305355/12	IC11X11.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	17758 1088757	43653 2590445	100008	211839	475200	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	20794 968250	49658 2356307	101136	202649	437178	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	19303 994736	46876 2386928	94970	199158	453546	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	20685 835863	41551 1976691	82547	164482	383313	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	13908 679401	33869 1634775	70129	138352	312867	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	11540 582722	29359 1408113	58473	115411	263229	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	27116 1359602	67245 3282376	137757	272638	621288	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	25232 1420556	63061 3401247	139688	282318	639018	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	9371 475761	25166 1190052	49662	97591	225496	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 123a	FB	Ave	16008 846626	40128 2050214	83165	169898	385055	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd 10	Ave	71194 3760453	184358 9228687	385797	718210	1722162	10.0 500	25.0 1250	50.0	100	250
1,1-Dichloroethene	FB	Ave	13331 611344	31463 1501991	64735	114306	291169	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBAd 10	Ave	21226	44402	89976	160947	353027	2.00	5.00	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 Env Job No.: 410-103501-1 Analy Batch No.: 305355

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2022 18:14 Calibration End Date: 10/11/2022 20:20 Calibration ID: 43087

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
			821258	1699734				100	250			
Freon 113	FB	Ave	12034 628943	29413 1529783	62429	111106	294443	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl iodide	FB	Ave	23403 1118472	57297 2776704	118224	215186	536749	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon disulfide	FB	Ave	34204 1513858	76962 3735829	159085	284878	724398	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd 10	Ave	6168 219752	14285 513104	22986	43457	98366	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	18515 877583	44193 2223337	92449	169467	416198	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	13524 640719	33261 1577187	67758	126398	308501	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd 10	Ave	10397 619915	29497 1033911	58597	114882	259068	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd 10	Ave	4349 288338	12991 667159	28147	56269	132451	0.500 25.0	1.25 62.5	2.50	5.00	12.5
Methyl tertiary butyl ether	FB	Ave	31600 1536750	78492 3786515	160964	310528	749157	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	14540 678102	34333 1681104	71252	129375	325368	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	18578 928929	42682 2195821	91070	161782	424459	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	25018 1221378	62421 3027324	123991	233800	589490	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	38022 1873857	94585 4624412	192010	369290	893697	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	19538 994403	47371 2467911	99725	182912	466435	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	41376 1864120	96906 4545405	196688	377218	901650	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone	TBAd 10	Ave	30874	74413	152798	308481	715391	2.00	5.00	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 Env Job No.: 410-103501-1 Analy Batch No.: 305355

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2022 18:14 Calibration End Date: 10/11/2022 20:20 Calibration ID: 43087

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
			1539156	3799473				100	250			
cis-1,2-Dichloroethene	FB	Ave	15733 749685	38634 1861147	78233	143507	359657	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	23924 1082366	53941 2680454	114063	207943	520639	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Propionitrile	TBAd 10	Ave	13116 813823	38506 1957645	87294	177834	405125	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd 10	Ave	31069 1657591	81625 4146569	165759	328953	795642	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	6738 332310	17417 824498	34135	65350	159879	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd 10	Ave	3937 232842	11045 573296	23081	45979	108920	1.00 50.0	2.50 125	5.00	10.0	25.0
Chloroform	FB	Ave	25093 1223371	62280 3037712	126080	236686	585579	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	23345 1171840	59561 2901332	121353	219585	559346	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	22441 1122071	52929 2722964	110342	197202	517580	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	19986 990218	49176 2453813	99965	183085	465871	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	20530 1042308	49572 2598851	103270	191460	489809	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	TBAd 10	Ave	9902 498261	25689 861594	51025	95808	224842	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	58133 2791547	144562 6969547	292711	541230	1343683	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	15809 756847	40331 1829070	77603	150689	361707	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	35247 1767474	87743 4316192	181727	353262	853632	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	21932	46992	93458	166936	422701	0.200	0.500	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 305355

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2022 18:14 Calibration End Date: 10/11/2022 20:20 Calibration ID: 43087

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
			902015	2165820				10.0	25.0			
n-Butanol	TBAd10	Ave	10110 870356	33183 1450157	69824	152320	398922	17.5 875	43.8 2188	87.5	175	438
Trichloroethene	FB	Ave	16758 775913	38299 1932042	78903	145422	368952	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	25775 1311829	61420 3135856	127627	234094	606377	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	13819 692262	33696 1738327	69942	131844	329049	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl methacrylate	TBAd10	Ave	4299 332758	12995 841771	30272	61794	154464	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBAd10	Ave	+++++ 144755	4571 +++++	13190	28783	73049	+++++ 500	25.0 +++++	50.0	100	250
Dibromomethane	FB	Ave	6718 345235	17187 860542	34651	67593	165082	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromodichloromethane	FB	Ave	15774 872328	39777 2210226	84864	164184	408735	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBAd10	Ave	8215 471048	21623 1192613	44862	92855	219060	1.00 50.0	2.50 125	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	20047 1085699	49512 2745438	104274	205568	508053	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone	TBAd10	Ave	72913 4164390	192071 10104306	399709	850672	1999817	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd5	Ave	38549 1877696	94625 4675418	192803	356328	893032	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd5	Ave	15067 902559	38630 2286620	83430	169812	421763	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd5	Ave	10917	30737	64731	136636	335364	0.200	0.500	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 305355

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2022 18:14 Calibration End Date: 10/11/2022 20:20 Calibration ID: 43087

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
			710674	1780360				10.0	25.0			
1,1,2-Trichloroethane	CBZd 5	Ave	9581 495464	25306 1229331	50879	97810	238069	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd 5	Ave	18305 912520	46594 2281446	93556	173393	439676	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd 5	Ave	15859 835268	41841 2080054	84552	165619	402399	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBAd 10	Ave	48532 2887216	133008 7081740	288315	605068	1424449	2.00 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd 5	Ave	9721 634222	25835 1635958	58081	118438	295273	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane	CBZd 5	Ave	9146 488821	23155 1219457	48677	96208	235238	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd 5	Ave	24386 1068623	53724 2635582	108142	194890	506909	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chlorobenzene	CBZd 5	Ave	43364 2078018	105752 5110830	214691	403823	993344	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd 5	Ave	14380 746105	34552 1875168	72967	142404	351291	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd 5	Ave	72484 3609928	181630 8929220	368171	684633	1738765	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd 5	Ave	57178 2872246	142159 7169940	296136	547993	1380604	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd 5	Ave	28232	69451	141966	265847	673564	0.200	0.500	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 305355

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2022 18:14 Calibration End Date: 10/11/2022 20:20 Calibration ID: 43087

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
			1412748	3529958				10.0	25.0			
Styrene	CBZd 5	Ave	42011 2315767	105428 5715430	222395	425417	1088899	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd 5	Ave	+++++ 365112	11991 967708	28638	60932	163979	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd 5	Ave	72277 3732709	180414 9075481	376923	701503	1768605	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	11618 616795	30010 1540901	62085	122761	292819	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd 4	Ave	17771 864592	42111 2167424	87683	166652	415344	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	TBAd 10	Ave	25364 1594996	69586 4052614	147944	306963	761543	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	3122 172686	8712 426513	17360	34855	82389	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd 4	Ave	79014 4328424	203024 10502523	419977	787760	2010174	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd 4	Ave	16860 873270	44193 2198626	89068	166654	417985	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd 4	Ave	60054 3114854	152293 7702723	308820	586604	1472528	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd 4	Ave	17210 892382	44389 2236761	91544	169851	424908	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd 4	Ave	14196	33119	69180	128232	325843	0.200	0.500	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 305355

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2022 18:14 Calibration End Date: 10/11/2022 20:20 Calibration ID: 43087

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
			694441	1717742				10.0	25.0			
Pentachloroethane	DCBd 4	Ave	9711 576350	26713 1504349	55209	108930	261182	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd 4	Ave	57410 3179495	152314 7871844	315012	592785	1491242	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd 4	Ave	75128 3965960	192485 9511733	394594	741309	1879056	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichlorobenzene	DCBd 4	Ave	33460 1725713	82215 4322957	170194	325559	812136	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd 4	Ave	64377 3487099	166578 8470824	344034	643013	1646230	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd 4	Ave	35973 1736319	89195 4340319	179958	343406	836175	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd 4	Ave	27186 1367014	67555 3445380	138480	256402	645139	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd 4	Ave	3937 267570	10599 698097	23737	49556	121172	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd 4	Ave	27853 1653584	74571 4112553	157650	295762	771830	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd 4	Ave	30495 1571672	79424 3911894	161467	311063	751702	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1022 96647	3685 244984	8511	18899	45471	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd 4	Ave	22906	58974	122028	234852	584276	0.200	0.500	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 305355

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2022 18:14 Calibration End Date: 10/11/2022 20:20 Calibration ID: 43087

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
			1259448	3107462				10.0	25.0			
1,2,4-Trichlorobenzene	DCBd 4	Ave	19837 1092319	49170 2668280	104900	203818	509384	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd 4	Ave	12064 426955	24825 1059332	45100	82029	199616	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd 4	Ave	36456 2018712	92556 4760380	192998	391035	944426	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd 4	Ave	17706 934336	42478 2206117	89200	181113	437204	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	593289 597804	606969 608190	599058	593528	596716	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	119355 118306	121053 120061	116912	119687	117524	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd 5	Ave	2355050 2376955	2402640 2414542	2368639	2340027	2369343	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	873517 877399	889298 900624	870545	863153	879228	10.0 10.0	10.0 10.0	10.0	10.0	10.0

Curve Type Legend
Ave = Average ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 305355

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2022 18:14 Calibration End Date: 10/11/2022 20:20 Calibration ID: 43087

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-305355/18	IC11X17.D
Level 2	IC 410-305355/17	IC11X16.D
Level 3	IC 410-305355/16	IC11X15.D
Level 4	IC 410-305355/15	IC11X14.D
Level 5	IC 410-305355/14	IC11X13.D
Level 6	ICIS 410-305355/13	IC11X12.D
Level 7	IC 410-305355/12	IC11X11.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	-9.2 3.8	-12.3	1.1	9.2	-3.0	10.5	50 30	30	30	30	30	30
Chloromethane	7.1 -4.8	0.5	3.0	5.3	-10.1	-1.0	50 30	30	30	30	30	30
Vinyl chloride	1.5 -1.6	-3.2	-1.3	5.6	-4.8	3.8	50 30	30	30	30	30	30
1,3-Butadiene	23.4 -7.5	-2.6	-2.6	-1.0	-8.7	-1.0	50 30	30	30	30	30	30
Bromomethane	3.8 -4.4	-0.7	3.4	4.1	-6.8	0.6	50 30	30	30	30	30	30
Chloroethane	1.8 -2.7	1.7	1.9	2.6	-7.4	2.0	50 30	30	30	30	30	30
Dichlorofluoromethane	2.2 -3.0	-0.5	2.6	3.6	-6.6	1.7	50 30	30	30	30	30	30
Trichlorofluoromethane	-5.3 0.1	-7.0	3.7	6.9	-4.2	5.8	50 30	30	30	30	30	30
Ethyl ether	-1.6 -2.1	3.8	3.0	3.3	-5.5	-0.9	50 30	30	30	30	30	30
Freon 123a	-1.4 -1.0	-2.8	1.3	5.6	-5.3	3.5	50 30	30	30	30	30	30
Acrolein	-2.7 12.8	0.8	3.8	-7.5	-7.8	0.6	50 30	30	30	30	30	30
1,1-Dichloroethene	9.1 -3.6	1.1	4.7	-5.7	-4.9	-0.7	50 30	30	30	30	30	30
Acetone	27.1 -9.1	6.3	6.0	-9.2	-17.3	-3.8	50 30	30	30	30	30	30
Freon 113	1.0 0.7	-3.0	3.6	-5.9	-1.3	4.8	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 Env Job No.: 410-103501-1 Analy Batch No.: 305355

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2022 18:14 Calibration End Date: 10/11/2022 20:20 Calibration ID: 43087

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Methyl iodide	4.8 -2.6	0.8	4.6	-2.8	-4.1	-0.6	50 30	30	30	30	30	30
Carbon disulfide	12.5 -3.7	-0.6	3.4	-5.5	-4.9	-1.2	50 30	30	30	30	30	30
Methyl acetate	29.9 -3.4	20.4	-4.7	-13.8	-18.9	-9.5	50 30	30	30	30	30	30
Allyl chloride	5.6 -0.6	-1.0	4.3	-2.5	-5.2	-0.7	50 30	30	30	30	30	30
Methylene Chloride	5.0 -4.0	1.5	4.0	-1.0	-4.4	-1.2	50 30	30	30	30	30	30
t-Butyl alcohol	-4.3 -15.0	8.6	6.1	-0.4	-6.7	11.6	50 30	30	30	30	30	30
Acrylonitrile	-18.1 12.3	-2.1	4.3	-0.2	-2.4	6.2	50 30	30	30	30	30	30
Methyl tertiary butyl ether	2.6 -3.6	0.1	3.3	1.7	-2.9	-1.0	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	7.4 -2.7	-0.4	4.0	-3.6	-4.1	-0.6	50 30	30	30	30	30	30
n-Hexane	6.4 -1.4	-4.0	3.1	-6.6	-3.0	5.5	50 30	30	30	30	30	30
1,1-Dichloroethane	3.5 -1.8	1.5	1.4	-2.4	-2.6	0.3	50 30	30	30	30	30	30
di-Isopropyl ether	2.6 -2.2	0.2	2.4	0.5	-3.8	0.3	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	2.1 1.1	-2.8	3.0	-3.6	-2.8	3.1	50 30	30	30	30	30	30
Ethyl t-butyl ether	9.3 -5.9	0.6	2.7	0.5	-4.9	-2.3	50 30	30	30	30	30	30
2-Butanone	2.0 12.2	-1.6	-0.6	-4.0	-7.5	-0.5	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	5.2 -2.4	1.5	3.4	-3.2	-4.0	-0.5	50 30	30	30	30	30	30
2,2-Dichloropropane	10.2 -3.2	-2.3	3.9	-3.4	-4.2	-1.0	50 30	30	30	30	30	30
Propionitrile	-17.8 9.6	-3.5	7.6	5.0	-0.6	-0.3	50 30	30	30	30	30	30
Methacrylonitrile	-4.6 13.8	0.3	0.2	-4.8	-4.4	-0.4	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 Env Job No.: 410-103501-1 Analy Batch No.: 305355

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2022 18:14 Calibration End Date: 10/11/2022 20:20 Calibration ID: 43087

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
Bromochloromethane	1.7 -2.4	3.3	1.9	-0.5	-3.6	-0.4	50 30	30	30	30	30	30
Tetrahydrofuran	-11.6 15.1	-0.8	2.0	-2.7	-4.3	2.3	50 30	30	30	30	30	30
Chloroform	3.4 -1.8	0.9	2.7	-1.6	-3.7	0.1	50 30	30	30	30	30	30
1,1,1-Trichloroethane	1.4 -1.2	1.6	4.2	-3.8	-3.1	1.0	50 30	30	30	30	30	30
Cyclohexane	5.3 0.1	-2.4	2.3	-6.7	-3.1	4.5	50 30	30	30	30	30	30
1,1-Dichloropropene	3.6 -0.3	0.2	2.5	-4.3	-3.6	1.9	50 30	30	30	30	30	30
Carbon tetrachloride	2.4 1.6	-2.9	1.8	-3.7	-2.5	3.2	50 30	30	30	30	30	30
Isobutyl alcohol	5.8 -17.7	9.8	7.3	-3.5	-5.9	4.2	50 30	30	30	30	30	30
Benzene	4.1 -2.2	1.7	3.6	-2.3	-4.0	-0.8	50 30	30	30	30	30	30
1,2-Dichloroethane	4.4 -5.3	4.6	1.3	0.4	-4.6	-0.8	50 30	30	30	30	30	30
t-Amyl methyl ether	1.0 -3.0	-1.2	3.0	2.1	-2.4	0.5	50 30	30	30	30	30	30
n-Heptane	20.4 -6.8	1.4	1.5	-7.5	-7.3	-1.7	50 30	30	30	30	30	30
n-Butanol	-27.1 -6.5	-4.3	-0.9	3.5	12.6	22.8	50 30	30	30	30	30	30
Trichloroethene	9.3 -1.2	-1.9	1.7	-4.3	-4.0	0.4	50 30	30	30	30	30	30
Methylcyclohexane	3.9 -0.9	-2.7	1.8	-4.8	-2.4	5.0	50 30	30	30	30	30	30
1,2-Dichloropropane	2.2 0.8	-2.1	2.2	-1.7	-2.9	1.6	50 30	30	30	30	30	30
Methyl methacrylate	-27.2 27.3	-12.0	0.8	-1.4	2.3	10.2	50 30	30	30	30	30	30
1,4-Dioxane	+++++ +++++	-28.7	1.2	5.7	11.5	10.4		50	30	30	30	30
Dibromomethane	-0.6 -0.2	-0.1	1.3	0.8	-2.5	1.3	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 Env Job No.: 410-103501-1 Analy Batch No.: 305355

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2022 18:14 Calibration End Date: 10/11/2022 20:20 Calibration ID: 43087

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
Bromodichloromethane	-4.6 4.8	-5.4	1.5	0.2	-1.3	4.7	50 30	30	30	30	30	30
2-Nitropropane	-8.6 18.6	-3.7	-1.7	-2.6	-4.6	2.6	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-2.7 4.5	-5.6	0.1	0.7	-1.6	4.6	50 30	30	30	30	30	30
4-Methyl-2-pentanone	-8.6 13.2	-3.7	-1.4	0.4	-1.9	2.1	50 30	30	30	30	30	30
Toluene	3.5 -1.8	2.0	3.9	-3.0	-4.9	0.4	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-10.0 6.9	-7.3	0.1	2.9	0.0	7.5	50 30	30	30	30	30	30
Ethyl methacrylate	-16.5 6.6	-5.6	-0.6	6.0	1.8	8.4	50 30	30	30	30	30	30
1,1,2-Trichloroethane	-2.5 -2.2	3.4	3.9	0.9	-3.9	0.5	50 30	30	30	30	30	30
Tetrachloroethene	1.0 -1.5	3.2	3.6	-3.0	-3.8	0.4	50 30	30	30	30	30	30
1,3-Dichloropropane	-3.7 -1.2	2.0	3.0	1.9	-3.1	1.1	50 30	30	30	30	30	30
2-Hexanone	-13.1 13.3	-4.7	1.6	2.1	-0.2	1.1	50 30	30	30	30	30	30
Dibromochloromethane	-15.9 10.7	-10.3	0.8	3.9	1.3	9.4	50 30	30	30	30	30	30
1,2-Dibromoethane	-3.8 0.3	-2.2	2.7	2.6	-1.9	2.4	50 30	30	30	30	30	30
1-Chlorohexane	14.2 -3.4	1.0	1.7	-7.4	-5.8	-0.2	50 30	30	30	30	30	30
Chlorobenzene	4.4 -3.7	2.3	3.8	-1.4	-5.1	-0.3	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-0.1 1.9	-3.7	1.7	0.3	-3.3	3.3	50 30	30	30	30	30	30
Ethylbenzene	1.6 -2.1	2.2	3.5	-2.7	-3.4	0.8	50 30	30	30	30	30	30
m&p-Xylene	0.7 -1.2	0.6	4.7	-2.1	-3.5	0.8	50 30	30	30	30	30	30
o-Xylene	1.9 -0.4	0.6	2.8	-2.8	-3.6	1.6	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 305355

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2022 18:14 Calibration End Date: 10/11/2022 20:20 Calibration ID: 43087

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
Styrene	-3.9 2.2	-3.2	2.0	-1.4	-1.3	5.5	50 30	30	30	30	30	30
Bromoform	+++++ 19.3	-24.2	-9.5	-2.7	2.4	14.6	 30	50	30	30	30	30
Isopropylbenzene	-0.2 -2.0	0.0	4.4	-1.8	-3.2	2.7	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-3.7 -0.6	-2.5	2.9	2.7	-1.6	2.9	50 30	30	30	30	30	30
Bromobenzene	3.9 -1.4	-3.5	2.5	-1.7	-1.6	1.8	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-14.8 21.6	-6.5	-2.2	-2.9	0.1	4.8	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-7.6 -1.8	1.0	2.7	4.0	-1.2	2.9	50 30	30	30	30	30	30
N-Propylbenzene	-3.3 -0.1	-2.7	2.7	-2.8	-0.4	6.6	50 30	30	30	30	30	30
2-Chlorotoluene	-2.0 -0.6	0.7	3.5	-2.3	-1.5	2.2	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-0.6 -0.8	-1.2	2.2	-2.1	-1.2	3.8	50 30	30	30	30	30	30
4-Chlorotoluene	-1.7 -0.7	-0.7	4.4	-2.2	-1.7	2.5	50 30	30	30	30	30	30
tert-Butylbenzene	5.2 -1.0	-3.8	2.4	-4.2	-2.2	3.6	50 30	30	30	30	30	30
Pentachloroethane	-10.7 7.6	-3.7	1.5	1.1	-2.6	6.7	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-5.5 0.7	-1.8	3.6	-1.6	-0.6	5.3	50 30	30	30	30	30	30
sec-Butylbenzene	-1.5 -3.0	-1.1	3.3	-2.0	-0.2	4.6	50 30	30	30	30	30	30
1,3-Dichlorobenzene	0.2 0.7	-3.5	1.8	-1.7	-1.5	4.0	50 30	30	30	30	30	30
p-Isopropyltoluene	-3.3 -1.0	-1.9	3.3	-2.6	0.2	5.4	50 30	30	30	30	30	30
1,4-Dichlorobenzene	3.2 -3.2	0.2	3.1	-0.7	-2.8	0.2	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	1.4 0.0	-1.2	3.2	-3.5	-2.5	2.6	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-103501-1 Analy Batch No.: 305355

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2022 18:14 Calibration End Date: 10/11/2022 20:20 Calibration ID: 43087

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
Benzyl chloride	-17.9 13.3	-13.4	-1.0	4.3	2.4	12.3	50 30	30	30	30	30	30
n-Butylbenzene	-9.3 4.2	-4.8	2.6	-2.9	1.8	8.4	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-2.0 -2.2	0.1	3.7	0.8	-2.1	1.7	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-39.2 13.4	-14.1	1.2	13.4	9.6	15.7	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-4.1 1.1	-3.3	2.0	-0.9	-0.9	6.1	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-3.6 0.9	-6.3	1.9	-0.1	0.3	6.9	50 30	30	30	30	30	30
Hexachlorobutadiene	32.0 -9.9	6.4	-1.4	-9.5	-11.5	-6.0	50 30	30	30	30	30	30
Naphthalene	-4.3 -2.8	-4.8	1.2	3.5	0.5	6.6	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-0.1 -3.2	-6.1	0.5	3.0	-0.1	6.0	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-0.3 0.2	0.2	-0.5	0.6	0.1	-0.3	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	1.0 -0.4	0.7	-2.2	2.2	-0.7	-0.6	50 30	30	30	30	30	30
Toluene-d8 (Surr)	-0.7 -0.4	1.7	0.3	0.1	-0.9	-0.1	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-0.4 0.4	1.7	-0.4	-0.3	-0.6	-0.4	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X11.D
Lims ID: IC std7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 11-Oct-2022 18:14:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0068441-012
Misc. Info.: IC STD7
Operator ID: knk41612 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 13-Oct-2022 11:35:08 Calib Date: 11-Oct-2022 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1621

First Level Reviewer: DVW2 Date: 12-Oct-2022 10:42:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.928	1.916	0.012	99	2590445	25.0	26.0	
4 Chloromethane	50	2.123	2.111	0.012	99	2356307	25.0	23.8	
5 Vinyl chloride	62	2.233	2.227	0.006	98	2386928	25.0	24.6	
6 Butadiene	39	2.245	2.233	0.012	89	1976691	25.0	23.1	
7 Bromomethane	94	2.568	2.556	0.012	91	1634775	25.0	23.9	
8 Chloroethane	64	2.654	2.641	0.013	100	1408113	25.0	24.3	
9 Dichlorofluoromethane	67	2.885	2.873	0.012	97	3282376	25.0	24.2	
10 Trichlorofluoromethane	101	2.952	2.940	0.012	98	3401247	25.0	25.0	
11 Ethyl ether	59	3.190	3.178	0.012	89	1190052	25.0	24.5	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.282	3.269	0.013	92	2050214	25.0	24.8	
14 Acrolein	56	3.355	3.343	0.013	99	9228687	1250.0	1409.6	
15 1,1-Dichloroethene	96	3.495	3.489	0.006	98	1501991	25.0	24.1	
16 Acetone	43	3.519	3.513	0.006	100	1699734	250.0	227.3	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.544	3.531	0.013	91	1529783	25.0	25.2	
18 Iodomethane	142	3.690	3.678	0.012	99	2776704	25.0	24.4	
19 Ethyl bromide	108	3.721	3.702	0.019	99	1398495	25.0	25.0	
20 Carbon disulfide	76	3.800	3.781	0.019	99	3735829	25.0	24.1	
23 Methyl acetate	43	3.934	3.928	0.006	97	513104	25.0	24.1	M
24 3-Chloro-1-propene	41	3.964	3.958	0.006	90	2223337	25.0	24.9	
25 Methylene Chloride	84	4.153	4.141	0.012	90	1577187	25.0	24.0	
* 26 t-Butyl alcohol-d10 (IS)	65	4.159	4.165	-0.006	34	114286	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.275	4.275	0.000	100	1033911	500.0	425.2	
28 Acrylonitrile	53	4.483	4.476	0.007	99	667159	62.5	70.2	
29 Methyl tert-butyl ether	73	4.556	4.550	0.006	94	3786515	25.0	24.1	
30 trans-1,2-Dichloroethene	96	4.568	4.556	0.012	99	1681104	25.0	24.3	
31 Hexane	57	4.989	4.982	0.007	91	2195821	25.0	24.6	
32 1,1-Dichloroethane	63	5.220	5.214	0.006	96	3027324	25.0	24.6	
35 Isopropyl ether	45	5.281	5.275	0.006	94	4624412	25.0	24.4	
36 2-Chloro-1,3-butadiene	53	5.330	5.324	0.006	91	2467911	25.0	25.3	
37 Tert-butyl ethyl ether	59	5.818	5.805	0.013	97	4545405	25.0	23.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2-Butanone (MEK)	43	6.013	6.001	0.012	99	3799473	250.0	280.5	
39 cis-1,2-Dichloroethene	96	6.055	6.043	0.012	82	1861147	25.0	24.4	
40 2,2-Dichloropropane	77	6.068	6.055	0.013	87	2680454	25.0	24.2	
43 Propionitrile	54	6.092	6.086	0.006	99	1957645	500.0	548.1	
S 41 1,2-Dichloroethene, Total	100				0			48.7	
45 Methacrylonitrile	67	6.318	6.305	0.013	90	4146569	250.0	284.5	
46 Chlorobromomethane	128	6.385	6.372	0.013	89	824498	25.0	24.4	
47 Tetrahydrofuran	71	6.391	6.391	0.000	77	573296	125.0	143.8	
48 Chloroform	83	6.537	6.525	0.012	93	3037712	25.0	24.5	
$ 49 Dibromofluoromethane (Surr)	113	6.750	6.738	0.012	94	608190	10.0	10.0	
50 1,1,1-Trichloroethane	97	6.763	6.756	0.007	98	2901332	25.0	24.7	
51 Cyclohexane	56	6.866	6.854	0.012	89	2722964	25.0	25.0	
53 1,1-Dichloropropene	75	6.970	6.964	0.006	98	2453813	25.0	24.9	
54 Carbon tetrachloride	117	6.976	6.970	0.006	96	2598851	25.0	25.4	
55 Isobutyl alcohol	41	7.110	7.110	0.000	94	861594	1250.0	1028.7	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.202	7.189	0.013	99	120061	10.0	9.96	
57 Benzene	78	7.232	7.226	0.006	96	6969547	25.0	24.5	
58 1,2-Dichloroethane	62	7.299	7.293	0.006	98	1829070	25.0	23.7	
60 Tert-amyl methyl ether	73	7.421	7.415	0.006	99	4316192	25.0	24.2	
* 61 Fluorobenzene (IS)	96	7.634	7.628	0.006	99	2406079	10.0	10.0	
62 n-Heptane	43	7.647	7.640	0.007	89	2165820	25.0	23.3	
63 n-Butanol	56	7.988	7.988	0.000	87	1450157	2187.5	2044.3	
64 Trichloroethene	95	8.110	8.110	0.000	97	1932042	25.0	24.7	
65 Methylcyclohexane	83	8.421	8.415	0.006	92	3135856	25.0	24.8	
66 1,2-Dichloropropane	63	8.439	8.433	0.006	97	1738327	25.0	25.2	
67 Methyl methacrylate	69	8.524	8.518	0.006	89	841771	25.0	31.8	
68 1,4-Dioxane	88	8.524	8.524	0.000	29	129439	1250.0	563.6	M
69 Dibromomethane	93	8.555	8.549	0.006	94	860542	25.0	24.9	
71 Dichlorobromomethane	83	8.787	8.780	0.007	100	2210226	25.0	26.2	
72 2-Nitropropane	41	9.049	9.043	0.006	97	1192613	125.0	148.3	
75 1-Bromo-2-chloroethane	63	9.177	9.177	0.000	98	1766395	25.0	25.6	
76 cis-1,3-Dichloropropene	75	9.335	9.329	0.006	97	2745438	25.0	26.1	
77 4-Methyl-2-pentanone (MIBK)	43	9.500	9.500	0.000	95	10104306	250.0	282.9	
$ 78 Toluene-d8 (Surr)	98	9.646	9.640	0.006	93	2414542	10.0	9.96	
79 Toluene	92	9.719	9.719	0.000	98	4675418	25.0	24.5	
97 trans-1,3-Dichloropropene	75	9.975	9.975	0.000	92	2286620	25.0	26.7	
99 Ethyl methacrylate	69	10.036	10.036	0.000	88	1780360	25.0	26.6	
S 98 1,3-Dichloropropene, Total	100				0			52.8	
100 1,1,2-Trichloroethane	97	10.183	10.183	0.000	91	1229331	25.0	24.5	
101 Tetrachloroethene	166	10.274	10.274	0.000	98	2281446	25.0	24.6	
102 1,3-Dichloropropane	76	10.341	10.341	0.000	89	2080054	25.0	24.7	
103 2-Hexanone	43	10.390	10.390	0.000	95	7081740	250.0	283.3	
105 Chlorodibromomethane	129	10.561	10.561	0.000	90	1635958	25.0	27.7	
106 Ethylene Dibromide	107	10.670	10.670	0.000	98	1219457	25.0	25.1	
* 107 Chlorobenzene-d5 (IS)	117	11.103	11.103	0.000	85	1833406	10.0	10.0	
108 1-Chlorohexane	91	11.109	11.109	0.000	96	2635582	25.0	24.1	
109 Chlorobenzene	112	11.128	11.128	0.000	95	5110830	25.0	24.1	
112 Ethylbenzene	91	11.213	11.213	0.000	98	8929220	25.0	24.5	
111 1,1,1,2-Tetrachloroethane	131	11.213	11.213	0.000	96	1875168	25.0	25.5	
S 110 Xylenes, Total	106				0			74.3	
113 m-Xylene & p-Xylene	106	11.329	11.329	0.000	99	7169940	50.0	49.4	
114 o-Xylene	106	11.658	11.658	0.000	96	3529958	25.0	24.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Styrene	104	11.676	11.676	0.000	94	5715430	25.0	25.6	
116 Bromoform	173	11.835	11.835	0.000	98	967708	25.0	29.8	
117 Isopropylbenzene	105	11.957	11.957	0.000	96	9075481	25.0	24.5	
$ 120 4-Bromofluorobenzene (Surr)	95	12.103	12.103	0.000	92	900624	10.0	10.0	
121 1,1,2,2-Tetrachloroethane	83	12.201	12.201	0.000	93	1540901	25.0	24.8	
122 Bromobenzene	156	12.219	12.219	0.000	97	2167424	25.0	24.6	
123 trans-1,4-Dichloro-2-butene	53	12.231	12.225	0.006	92	4052614	250.0	304.0	
124 1,2,3-Trichloropropane	110	12.249	12.249	0.000	81	426513	25.0	24.5	
125 N-Propylbenzene	91	12.286	12.286	0.000	98	10502523	25.0	25.0	
126 2-Chlorotoluene	126	12.365	12.365	0.000	97	2198626	25.0	24.9	
127 1,3,5-Trimethylbenzene	105	12.426	12.420	0.006	94	7702723	25.0	24.8	
128 4-Chlorotoluene	126	12.457	12.457	0.000	97	2236761	25.0	24.8	
129 tert-Butylbenzene	134	12.664	12.664	0.000	93	1717742	25.0	24.7	M
130 Pentachloroethane	167	12.701	12.700	0.000	94	1504349	25.0	26.9	
131 1,2,4-Trimethylbenzene	105	12.707	12.707	0.000	97	7871844	25.0	25.2	
132 sec-Butylbenzene	105	12.829	12.828	0.001	94	9511733	25.0	24.2	
133 1,3-Dichlorobenzene	146	12.926	12.926	0.000	98	4322957	25.0	25.2	
134 4-Isopropyltoluene	119	12.938	12.938	0.000	96	8470824	25.0	24.7	
* 135 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	93	1068377	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.999	12.999	0.000	95	4340319	25.0	24.2	
137 1,2,3-Trimethylbenzene	120	13.011	13.011	0.000	98	3445380	25.0	25.0	
138 Benzyl chloride	126	13.078	13.078	0.000	98	698097	25.0	28.3	
139 n-Butylbenzene	92	13.225	13.225	0.000	97	4112553	25.0	26.0	
140 1,2-Dichlorobenzene	146	13.261	13.261	0.000	98	3911894	25.0	24.4	
142 1,2-Dibromo-3-Chloropropane	155	13.804	13.804	0.000	90	244984	25.0	28.3	
143 1,3,5-Trichlorobenzene	180	13.932	13.932	0.000	98	3107462	25.0	25.3	
144 1,2,4-Trichlorobenzene	180	14.353	14.353	0.000	94	2668280	25.0	25.2	
145 Hexachlorobutadiene	225	14.432	14.432	0.000	97	1059332	25.0	22.5	
146 Naphthalene	128	14.529	14.529	0.000	97	4760380	25.0	24.3	
147 1,2,3-Trichlorobenzene	180	14.676	14.676	0.000	96	2206117	25.0	24.2	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
165 Isopropyl alcohol	45		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00056	Amount Added: 25.00	Units: uL	
MSV_LL_#2_826_00060	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00116	Amount Added: 25.00	Units: uL	
MSV_LLcentISS_00005	Amount Added: 5.00	Units: uL	Run Reagent

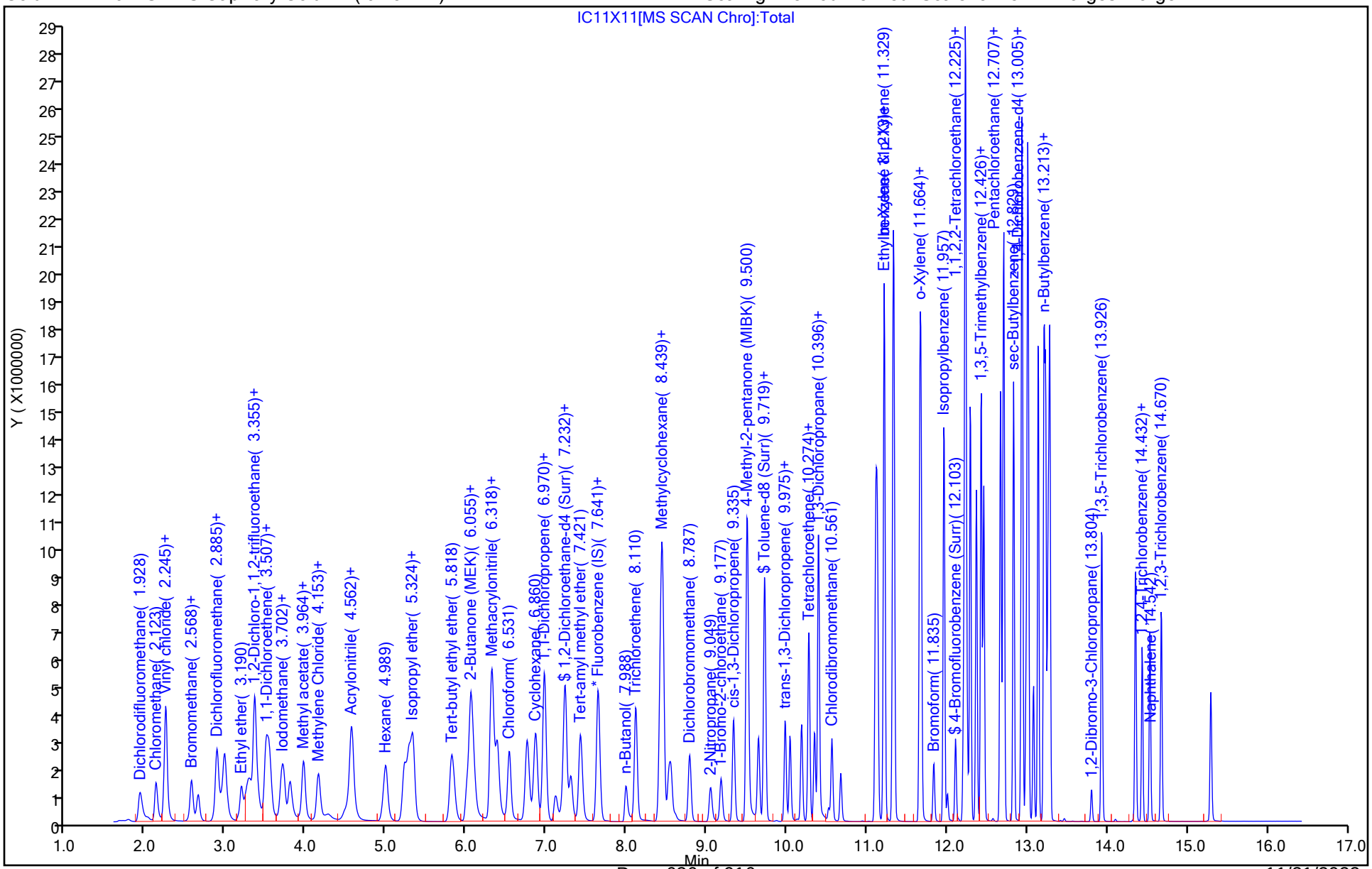
Report Date: 13-Oct-2022 11:35:10 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X11.D

Injection Date:	11-Oct-2022 18:14:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	IC std7			Worklist Smp#:	12
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

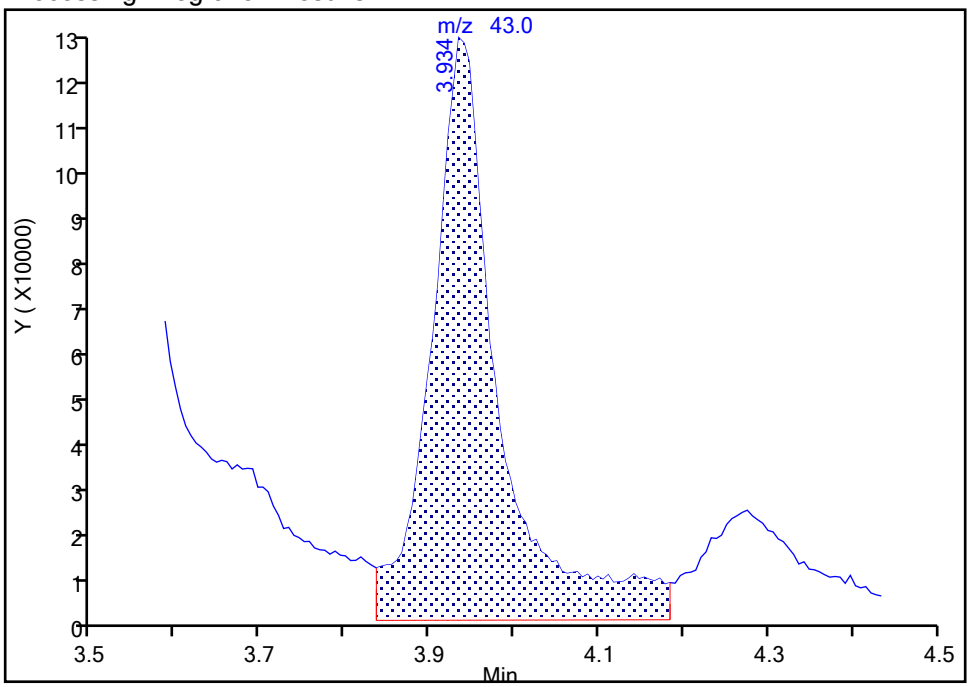
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X11.D				
Injection Date:	11-Oct-2022 18:14:30	Instrument ID:	19930		
Lims ID:	IC std7				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

23 Methyl acetate, CAS: 79-20-9

Signal: 1

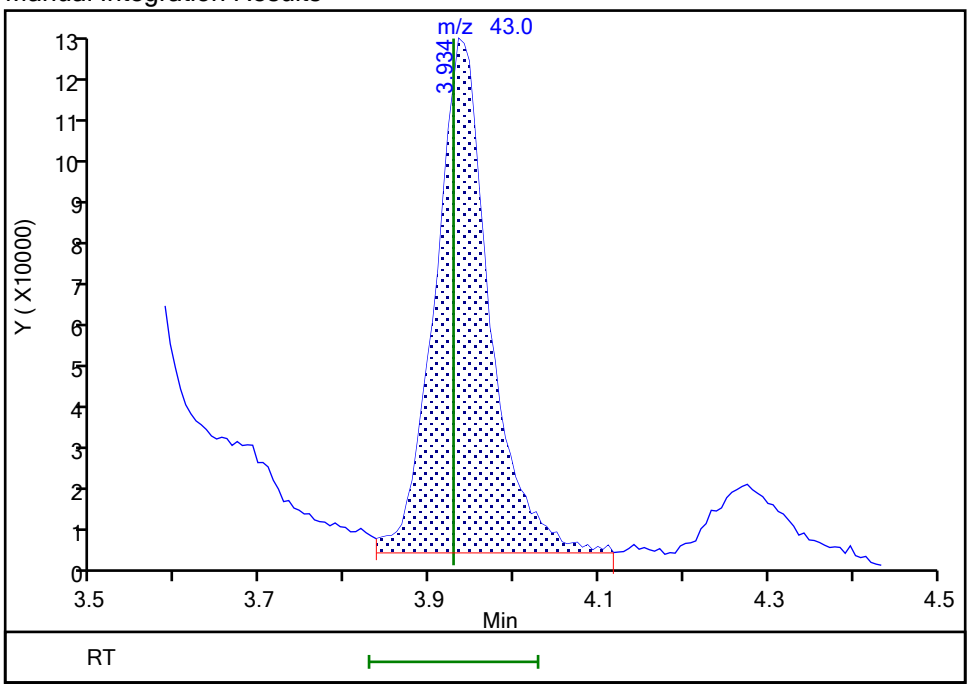
Processing Integration Results

RT: 3.93
Area: 681522
Amount: 26.771465
Amount Units: ug/l



Manual Integration Results

RT: 3.93
Area: 513104
Amount: 24.145674
Amount Units: ug/l



Reviewer: DVW2, 12-Oct-2022 10:40:36
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

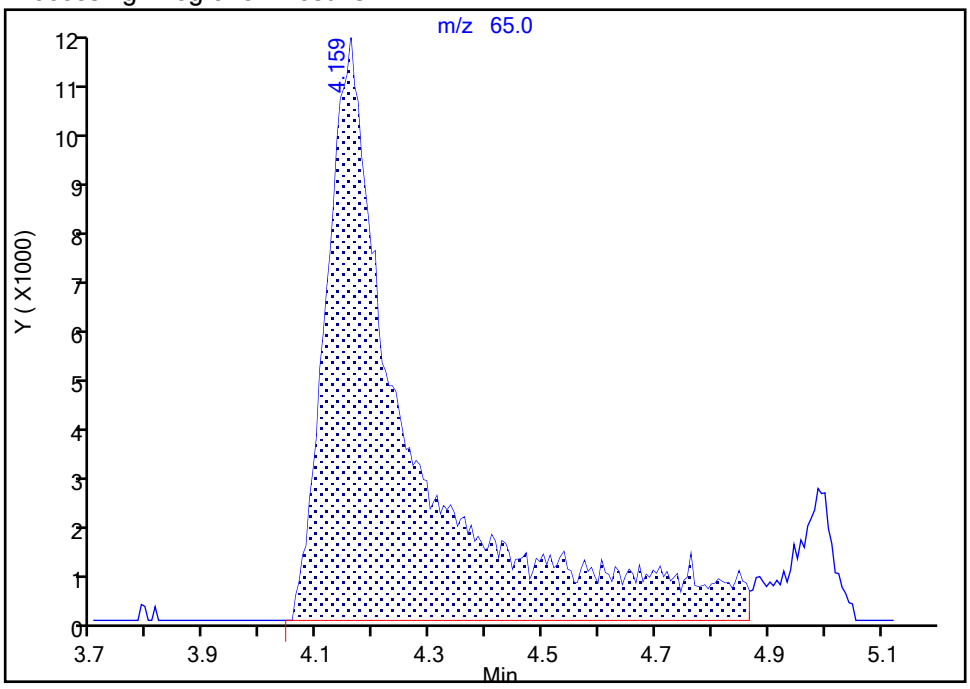
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X11.D				
Injection Date:	11-Oct-2022 18:14:30	Instrument ID:	19930		
Lims ID:	IC std7				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

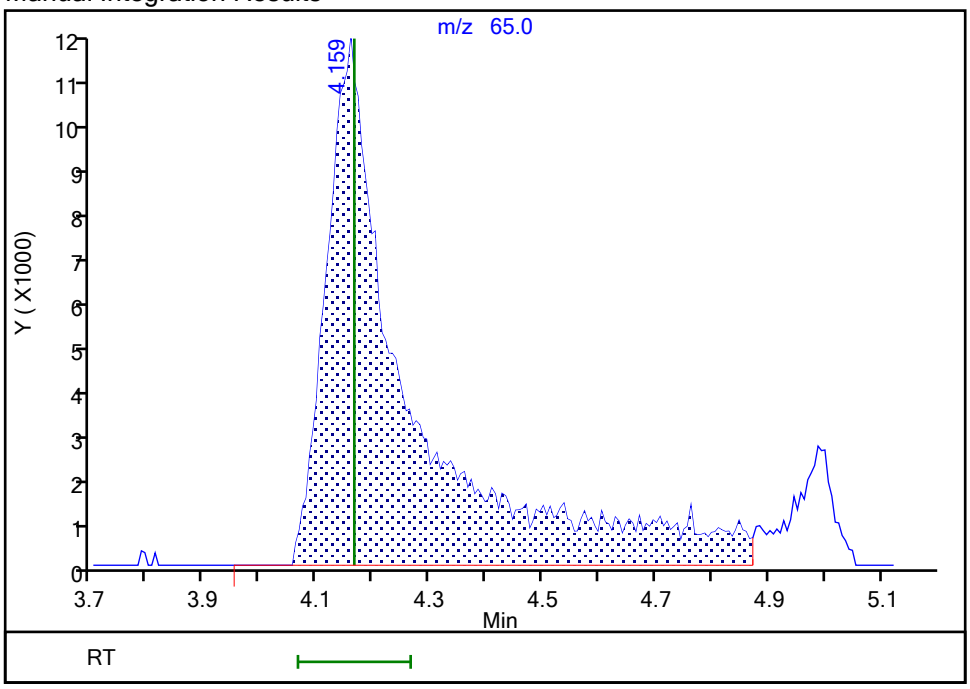
Processing Integration Results

RT: 4.16
Area: 114078
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.16
Area: 114286
Amount: 50.000000
Amount Units: ug/l



Reviewer: UKEK, 13-Oct-2022 09:13:55
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

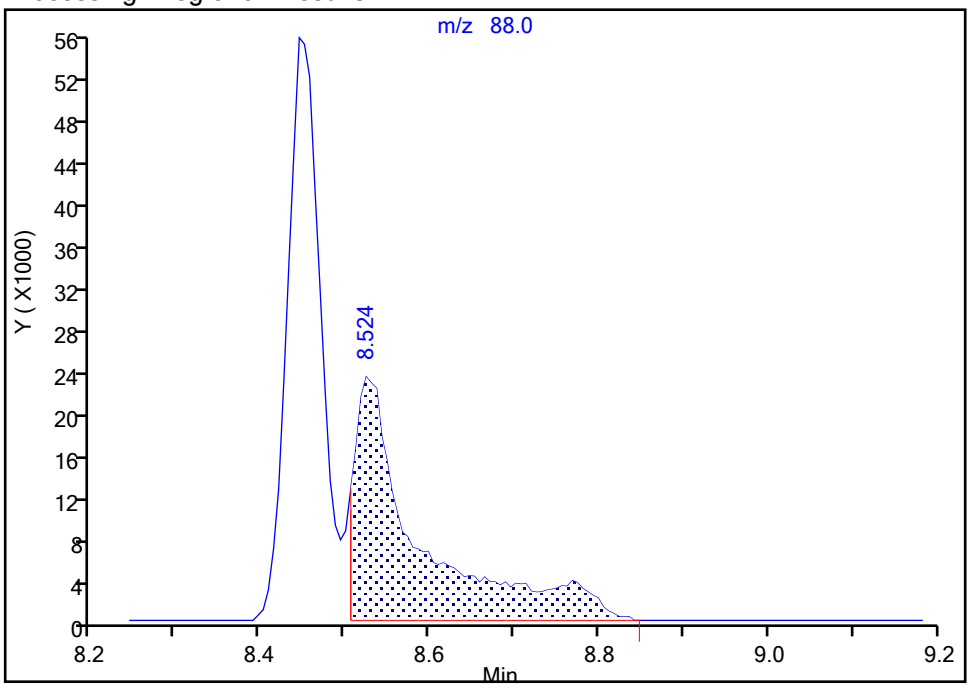
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X11.D				
Injection Date:	11-Oct-2022 18:14:30	Instrument ID:	19930		
Lims ID:	IC std7				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

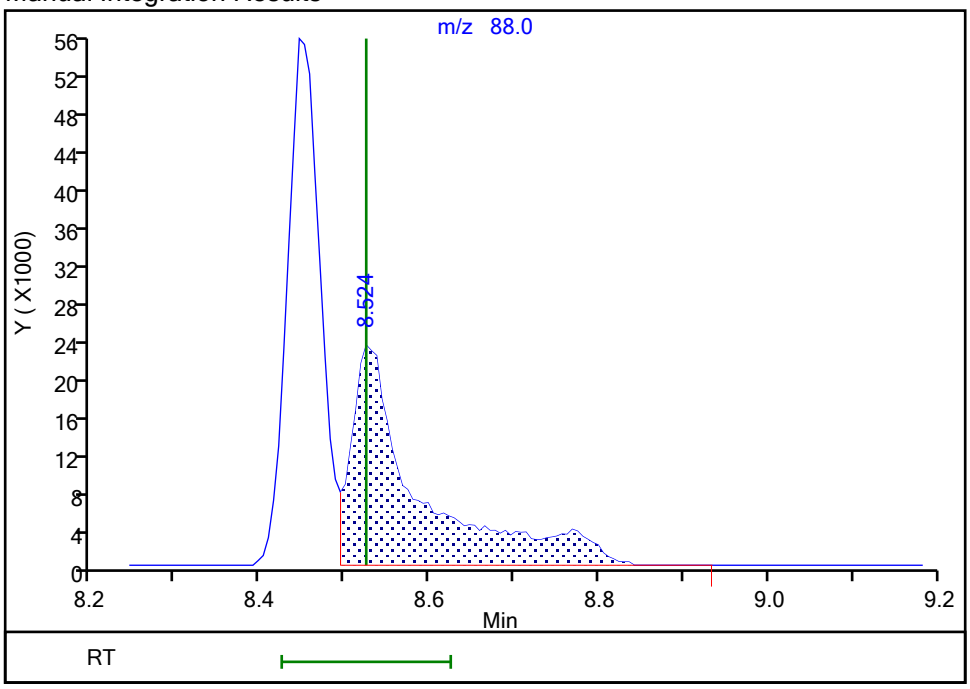
Processing Integration Results

RT: 8.52
Area: 123558
Amount: 601.4048
Amount Units: ug/l



Manual Integration Results

RT: 8.52
Area: 129439
Amount: 563.6390
Amount Units: ug/l



Reviewer: DVW2, 12-Oct-2022 10:42:30
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

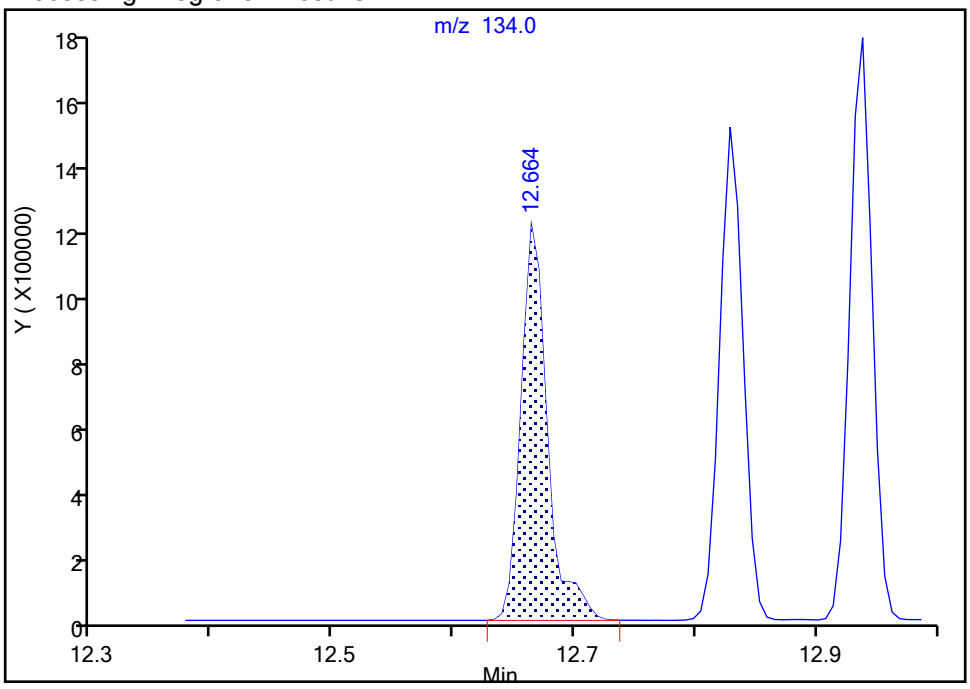
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X11.D				
Injection Date:	11-Oct-2022 18:14:30	Instrument ID:	19930		
Lims ID:	IC std7				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

129 tert-Butylbenzene, CAS: 98-06-6

Signal: 1

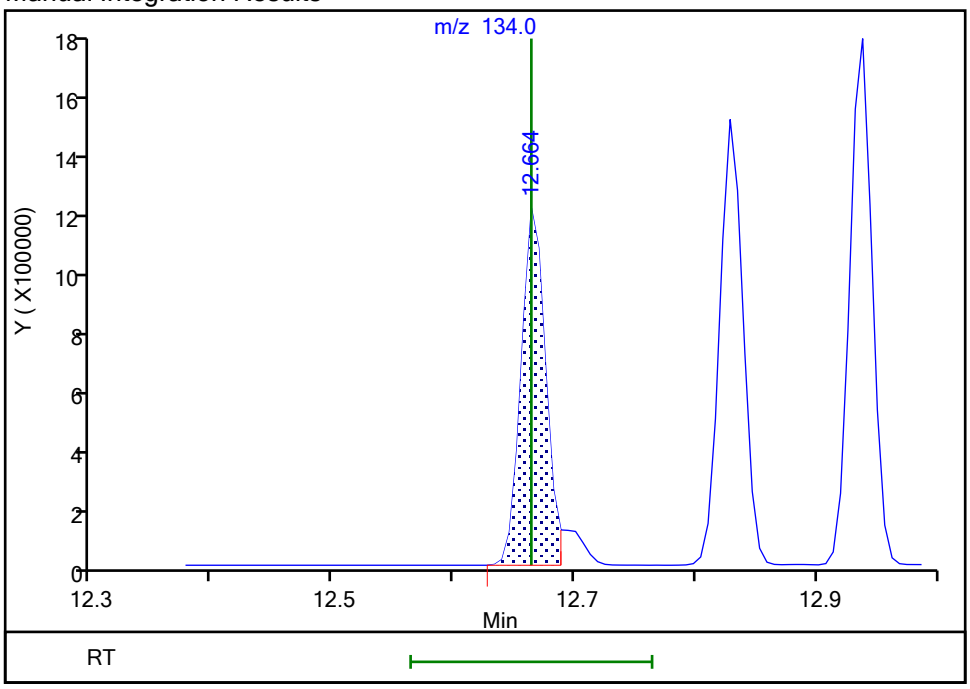
Processing Integration Results

RT: 12.66
Area: 1850595
Amount: 26.183598
Amount Units: ug/l



Manual Integration Results

RT: 12.66
Area: 1717742
Amount: 24.747742
Amount Units: ug/l



Reviewer: UKEK, 13-Oct-2022 09:43:13
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X12.D
Lims ID: ICIS - LG
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 11-Oct-2022 18:35:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0068441-013
Misc. Info.: ICIS - LG
Operator ID: knk41612 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 13-Oct-2022 11:35:16 Calib Date: 11-Oct-2022 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1621

First Level Reviewer: DVW2 Date: 12-Oct-2022 10:45:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.916	1.916	0.000	99	1088757	10.0	11.0	
4 Chloromethane	50	2.111	2.111	0.000	99	968250	10.0	9.90	
5 Vinyl chloride	62	2.227	2.227	0.000	98	994736	10.0	10.4	
6 Butadiene	39	2.233	2.233	0.000	92	835863	10.0	9.90	
7 Bromomethane	94	2.556	2.556	0.000	91	679401	10.0	10.1	
8 Chloroethane	64	2.641	2.641	0.000	100	582722	10.0	10.2	
9 Dichlorofluoromethane	67	2.873	2.873	0.000	97	1359602	10.0	10.2	
10 Trichlorofluoromethane	101	2.940	2.940	0.000	98	1420556	10.0	10.6	
11 Ethyl ether	59	3.178	3.178	0.000	90	475761	10.0	9.91	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.269	3.269	0.000	91	846626	10.0	10.4	
14 Acrolein	56	3.343	3.343	0.000	99	3760453	500.0	502.8	
15 1,1-Dichloroethene	96	3.489	3.489	0.000	98	611344	10.0	9.93	
16 Acetone	43	3.513	3.513	0.000	100	821258	100.0	96.2	M
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.531	3.531	0.000	91	628943	10.0	10.5	
18 Iodomethane	142	3.678	3.678	0.000	99	1118472	10.0	9.94	
19 Ethyl bromide	108	3.702	3.702	0.000	98	556611	10.0	10.1	
20 Carbon disulfide	76	3.781	3.781	0.000	99	1513858	10.0	9.88	
23 Methyl acetate	43	3.928	3.928	0.000	96	219752	10.0	9.05	M
24 3-Chloro-1-propene	41	3.958	3.958	0.000	90	877583	10.0	9.93	
25 Methylene Chloride	84	4.141	4.141	0.000	89	640719	10.0	9.88	
* 26 t-Butyl alcohol-d10 (IS)	65	4.141	4.141	0.000	79	130547	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.275	4.275	0.000	100	619915	200.0	223.2	
28 Acrylonitrile	53	4.476	4.476	0.000	98	288338	25.0	26.5	
29 Methyl tert-butyl ether	73	4.550	4.550	0.000	94	1536750	10.0	9.90	
30 trans-1,2-Dichloroethene	96	4.556	4.556	0.000	99	678102	10.0	9.94	
31 Hexane	57	4.982	4.982	0.000	91	928929	10.0	10.6	
32 1,1-Dichloroethane	63	5.214	5.214	0.000	96	1221378	10.0	10.0	
35 Isopropyl ether	45	5.275	5.275	0.000	93	1873857	10.0	10.0	
36 2-Chloro-1,3-butadiene	53	5.324	5.324	0.000	91	994403	10.0	10.3	
37 Tert-butyl ethyl ether	59	5.805	5.805	0.000	97	1864120	10.0	9.77	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2-Butanone (MEK)	43	6.001	6.001	0.000	99	1539156	100.0	99.5	
39 cis-1,2-Dichloroethene	96	6.043	6.043	0.000	82	749685	10.0	9.95	
40 2,2-Dichloropropane	77	6.055	6.055	0.000	87	1082366	10.0	9.90	
43 Propionitrile	54	6.086	6.086	0.000	98	813823	200.0	199.5	
45 Methacrylonitrile	67	6.305	6.305	0.000	92	1657591	100.0	99.6	
46 Chlorobromomethane	128	6.372	6.372	0.000	89	332310	10.0	9.96	
47 Tetrahydrofuran	71	6.391	6.391	0.000	75	232842	50.0	51.1	
48 Chloroform	83	6.525	6.525	0.000	93	1223371	10.0	10.0	
$ 49 Dibromofluoromethane (Surr)	113	6.738	6.738	0.000	94	597804	10.0	9.97	
50 1,1,1-Trichloroethane	97	6.756	6.756	0.000	98	1171840	10.0	10.1	
51 Cyclohexane	56	6.854	6.854	0.000	89	1122071	10.0	10.4	
53 1,1-Dichloropropene	75	6.964	6.964	0.000	97	990218	10.0	10.2	
54 Carbon tetrachloride	117	6.970	6.970	0.000	96	1042308	10.0	10.3	
55 Isobutyl alcohol	41	7.110	7.110	0.000	95	498261	500.0	520.8	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.189	7.189	0.000	99	118306	10.0	9.94	
57 Benzene	78	7.226	7.226	0.000	96	2791547	10.0	9.92	
58 1,2-Dichloroethane	62	7.293	7.293	0.000	98	756847	10.0	9.92	
60 Tert-amyl methyl ether	73	7.415	7.415	0.000	99	1767474	10.0	10.1	
* 61 Fluorobenzene (IS)	96	7.628	7.628	0.000	99	2376313	10.0	10.0	
62 n-Heptane	43	7.640	7.640	0.000	90	902015	10.0	9.83	
63 n-Butanol	56	7.988	7.988	0.000	86	870356	875.0	1074.1	
64 Trichloroethene	95	8.110	8.110	0.000	97	775913	10.0	10.0	
65 Methylcyclohexane	83	8.415	8.415	0.000	92	1311829	10.0	10.5	
66 1,2-Dichloropropane	63	8.433	8.433	0.000	88	692262	10.0	10.2	
67 Methyl methacrylate	69	8.518	8.518	0.000	88	332758	10.0	11.0	
68 1,4-Dioxane	88	8.524	8.524	0.000	34	144755	500.0	551.8	M
69 Dibromomethane	93	8.549	8.549	0.000	94	345235	10.0	10.1	
71 Dichlorobromomethane	83	8.780	8.780	0.000	99	872328	10.0	10.5	
72 2-Nitropropane	41	9.043	9.043	0.000	98	471048	50.0	51.3	
75 1-Bromo-2-chloroethane	63	9.177	9.177	0.000	99	689198	10.0	10.1	
76 cis-1,3-Dichloropropene	75	9.329	9.329	0.000	97	1085699	10.0	10.5	
77 4-Methyl-2-pentanone (MIBK)	43	9.500	9.500	0.000	95	4164390	100.0	102.1	
$ 78 Toluene-d8 (Surr)	98	9.640	9.640	0.000	93	2376955	10.0	10.0	
79 Toluene	92	9.719	9.719	0.000	98	1877696	10.0	10.0	
97 trans-1,3-Dichloropropene	75	9.975	9.975	0.000	92	902559	10.0	10.7	
99 Ethyl methacrylate	69	10.036	10.036	0.000	88	710674	10.0	10.8	
100 1,1,2-Trichloroethane	97	10.183	10.183	0.000	91	495464	10.0	10.0	
101 Tetrachloroethene	166	10.274	10.274	0.000	98	912520	10.0	10.0	
102 1,3-Dichloropropane	76	10.341	10.341	0.000	89	835268	10.0	10.1	
103 2-Hexanone	43	10.390	10.390	0.000	95	2887216	100.0	101.1	
105 Chlorodibromomethane	129	10.561	10.561	0.000	89	634222	10.0	10.9	
106 Ethylene Dibromide	107	10.670	10.670	0.000	98	488821	10.0	10.2	
* 107 Chlorobenzene-d5 (IS)	117	11.103	11.103	0.000	85	1799294	10.0	10.0	
108 1-Chlorohexane	91	11.109	11.109	0.000	95	1068623	10.0	9.98	
109 Chlorobenzene	112	11.128	11.128	0.000	96	2078018	10.0	9.97	
112 Ethylbenzene	91	11.213	11.213	0.000	98	3609928	10.0	10.1	
111 1,1,1,2-Tetrachloroethane	131	11.213	11.213	0.000	96	746105	10.0	10.3	
113 m-Xylene & p-Xylene	106	11.329	11.329	0.000	100	2872246	20.0	20.2	
114 o-Xylene	106	11.658	11.658	0.000	96	1412748	10.0	10.2	
115 Styrene	104	11.676	11.676	0.000	95	2315767	10.0	10.6	
116 Bromoform	173	11.835	11.835	0.000	98	365112	10.0	11.5	
117 Isopropylbenzene	105	11.957	11.957	0.000	96	3732709	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
$ 120 4-Bromofluorobenzene (Surr)	95	12.103	12.103	0.000	92	877399	10.0	9.96	
121 1,1,2,2-Tetrachloroethane	83	12.201	12.201	0.000	93	616795	10.0	10.3	
122 Bromobenzene	156	12.219	12.219	0.000	97	864592	10.0	10.2	
123 trans-1,4-Dichloro-2-butene	53	12.225	12.225	0.000	92	1594996	100.0	104.8	
124 1,2,3-Trichloropropane	110	12.249	12.249	0.000	81	172686	10.0	10.3	
125 N-Propylbenzene	91	12.286	12.286	0.000	99	4328424	10.0	10.7	
126 2-Chlorotoluene	126	12.365	12.365	0.000	97	873270	10.0	10.2	
127 1,3,5-Trimethylbenzene	105	12.420	12.420	0.000	94	3114854	10.0	10.4	
128 4-Chlorotoluene	126	12.457	12.457	0.000	97	892382	10.0	10.3	
129 tert-Butylbenzene	134	12.664	12.664	0.000	92	694441	10.0	10.4	M
130 Pentachloroethane	167	12.700	12.700	0.000	92	576350	10.0	10.7	
131 1,2,4-Trimethylbenzene	105	12.707	12.707	0.000	97	3179495	10.0	10.5	
132 sec-Butylbenzene	105	12.828	12.828	0.000	94	3965960	10.0	10.5	
133 1,3-Dichlorobenzene	146	12.926	12.926	0.000	98	1725713	10.0	10.4	
134 4-Isopropyltoluene	119	12.938	12.938	0.000	97	3487099	10.0	10.5	
* 135 1,4-Dichlorobenzene-d4	152	12.981	12.981	0.000	94	1032219	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.999	12.999	0.000	94	1736319	10.0	10.0	
137 1,2,3-Trimethylbenzene	120	13.011	13.011	0.000	98	1367014	10.0	10.3	
138 Benzyl chloride	126	13.078	13.078	0.000	98	267570	10.0	11.2	
139 n-Butylbenzene	92	13.225	13.225	0.000	96	1653584	10.0	10.8	
140 1,2-Dichlorobenzene	146	13.261	13.261	0.000	99	1571672	10.0	10.2	
142 1,2-Dibromo-3-Chloropropane	155	13.804	13.804	0.000	89	96647	10.0	11.6	
143 1,3,5-Trichlorobenzene	180	13.932	13.932	0.000	98	1259448	10.0	10.6	
144 1,2,4-Trichlorobenzene	180	14.353	14.353	0.000	94	1092319	10.0	10.7	
145 Hexachlorobutadiene	225	14.432	14.432	0.000	96	426955	10.0	9.40	
146 Naphthalene	128	14.529	14.529	0.000	97	2018712	10.0	10.7	
147 1,2,3-Trichlorobenzene	180	14.676	14.676	0.000	96	934336	10.0	10.6	
161 Pentane	43		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
165 Isopropyl alcohol	45		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00056	Amount Added: 10.00	Units: uL	
MSV_LL_#2_826_00060	Amount Added: 10.00	Units: uL	
MSV_LL_GAS826_00116	Amount Added: 10.00	Units: uL	
MSV_LLcentISS_00005	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 13-Oct-2022 11:35:16 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X12.D

Injection Date: 11-Oct-2022 18:35:30 Instrument ID: 19930 Operator ID: knk41612

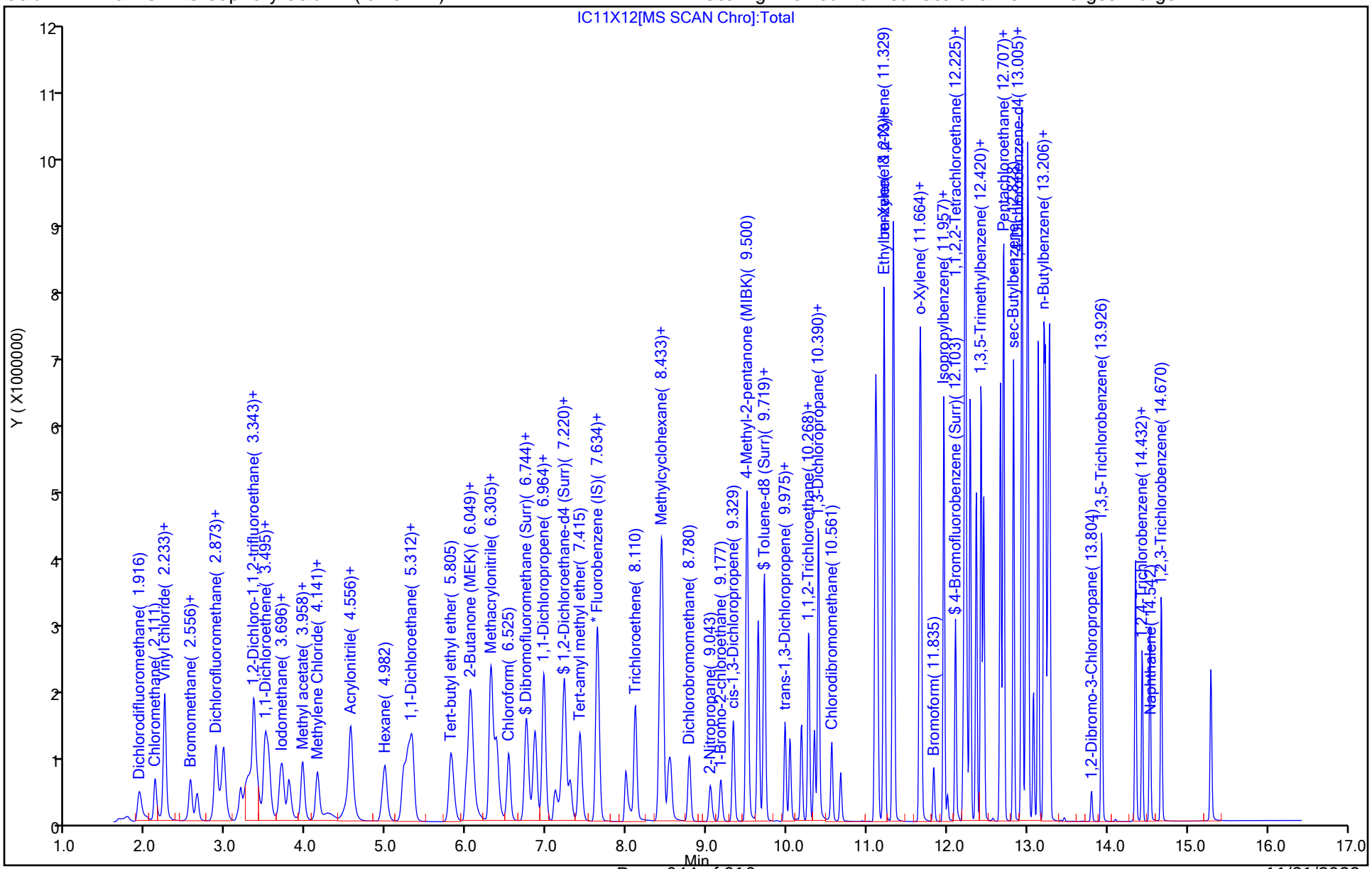
Lims ID: ICIS - LG Worklist Smp#: 13

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

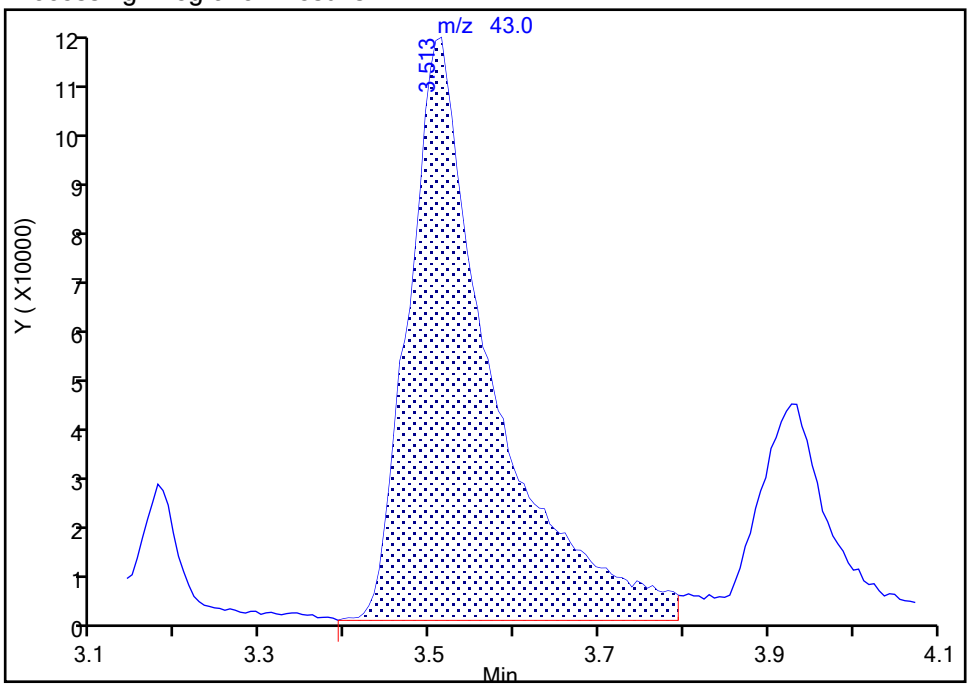
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X12.D				
Injection Date:	11-Oct-2022 18:35:30	Instrument ID:	19930		
Lims ID:	ICIS - LG				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

16 Acetone, CAS: 67-64-1

Signal: 1

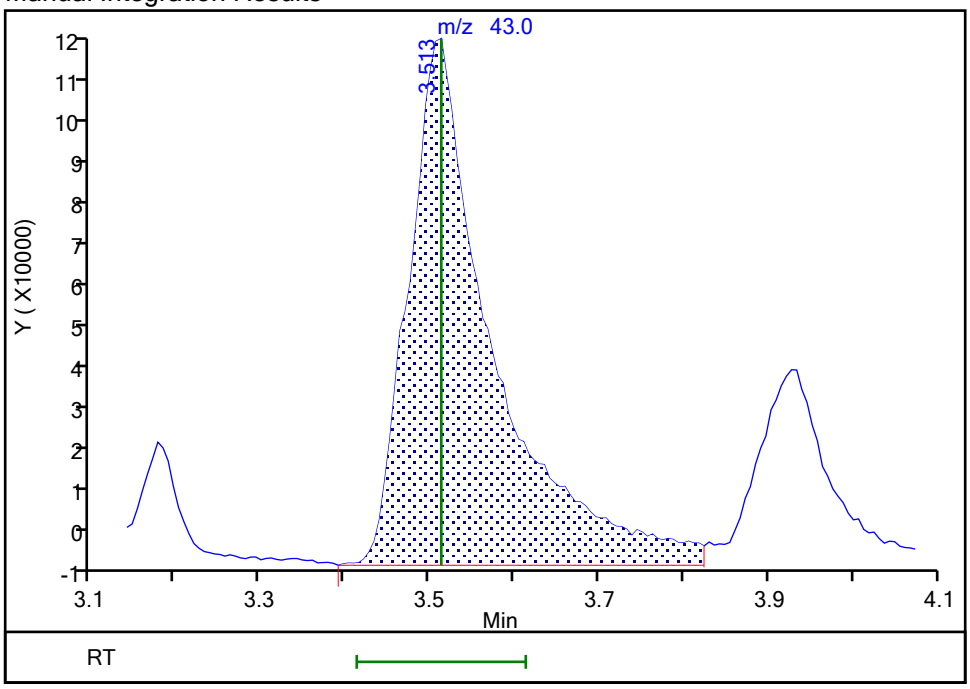
Processing Integration Results

RT: 3.51
Area: 812208
Amount: 97.822071
Amount Units: ug/l



Manual Integration Results

RT: 3.51
Area: 821258
Amount: 96.160838
Amount Units: ug/l



Reviewer: DVW2, 12-Oct-2022 10:43:32
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

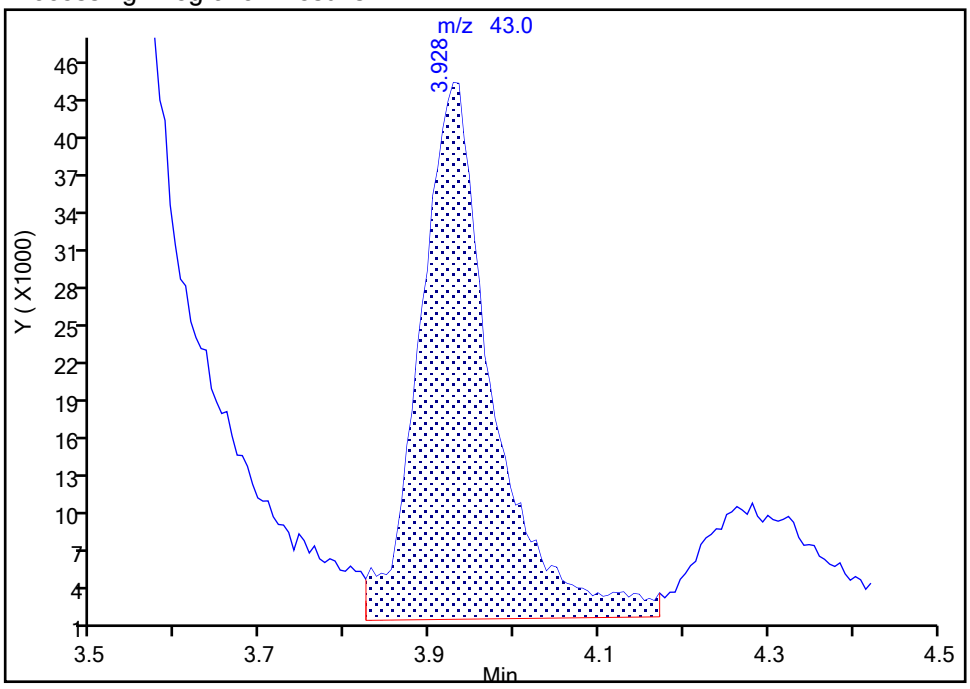
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X12.D				
Injection Date:	11-Oct-2022 18:35:30	Instrument ID:	19930		
Lims ID:	ICIS - LG				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

23 Methyl acetate, CAS: 79-20-9

Signal: 1

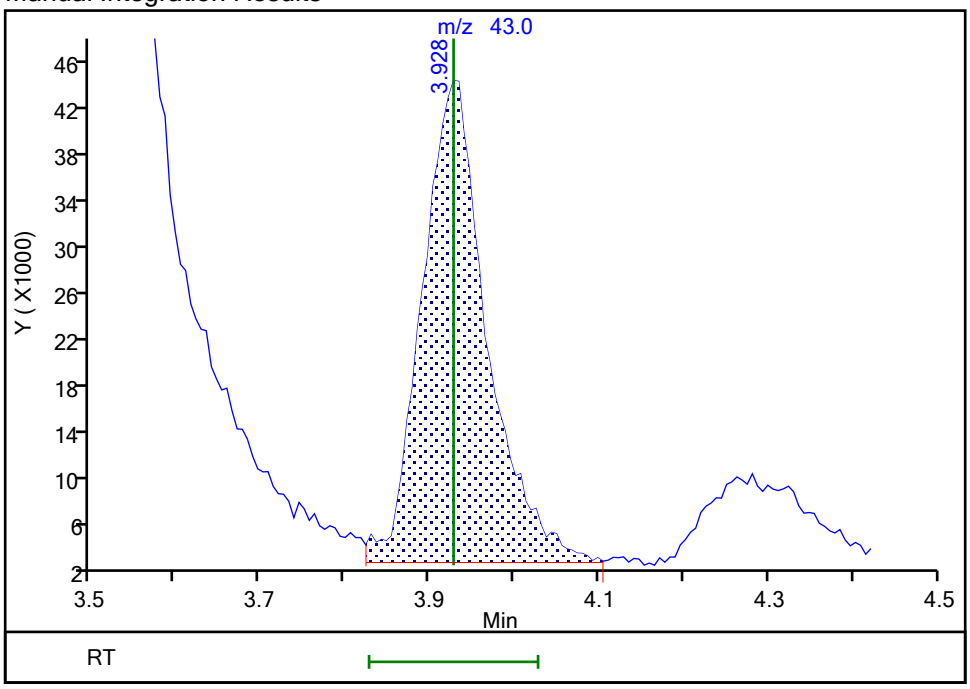
Processing Integration Results

RT: 3.93
Area: 255276
Amount: 11.100656
Amount Units: ug/l



Manual Integration Results

RT: 3.93
Area: 219752
Amount: 9.053008
Amount Units: ug/l



Reviewer: DVW2, 12-Oct-2022 10:44:05
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

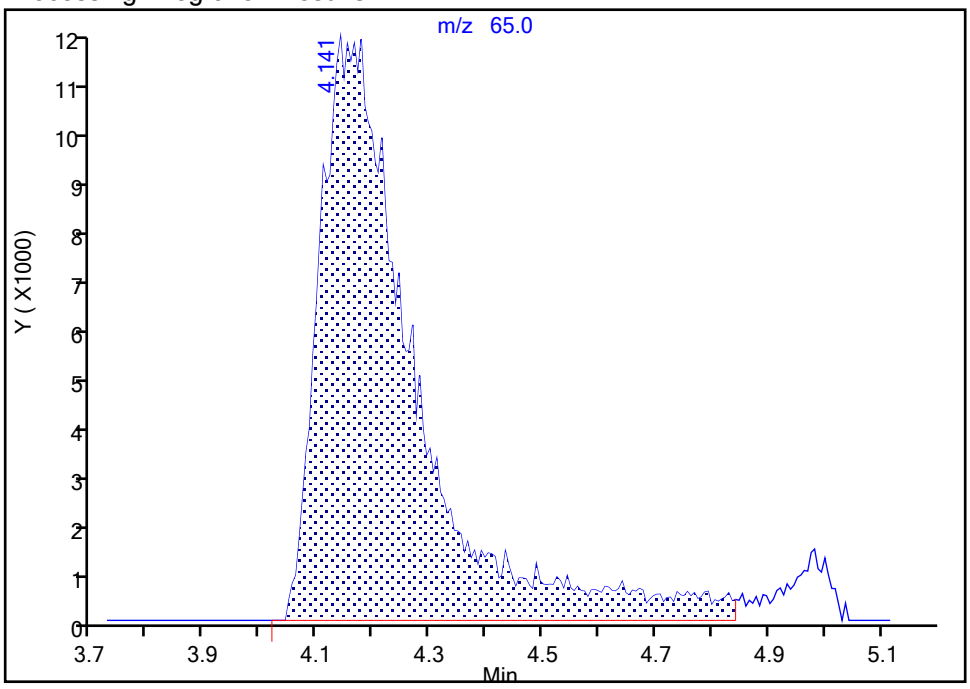
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X12.D				
Injection Date:	11-Oct-2022 18:35:30	Instrument ID:	19930		
Lims ID:	ICIS - LG				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

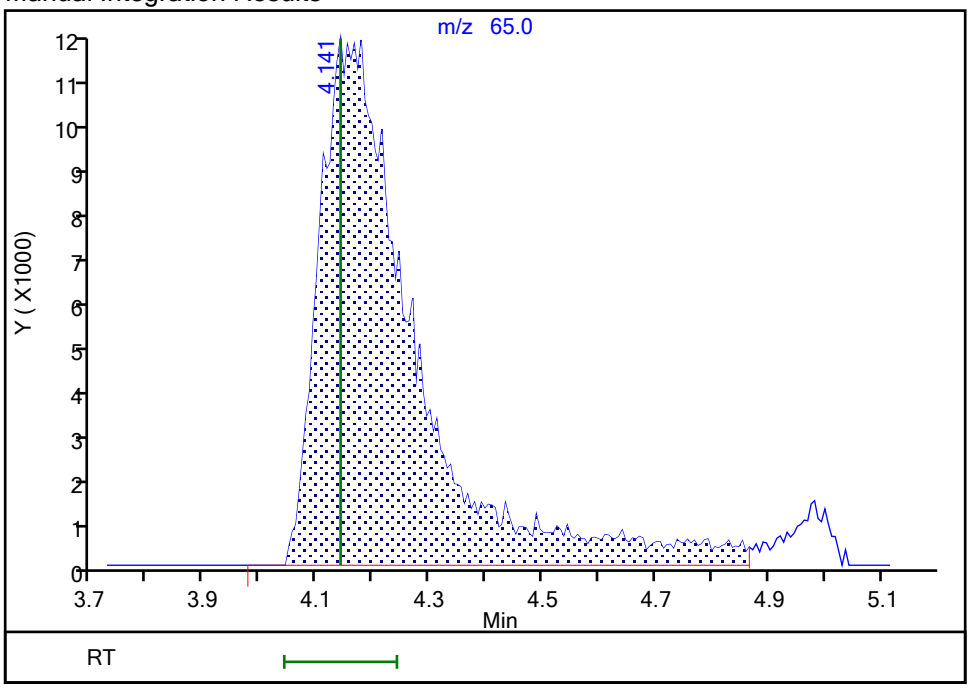
Processing Integration Results

RT: 4.14
Area: 129981
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.14
Area: 130547
Amount: 50.000000
Amount Units: ug/l



Reviewer: UKEK, 13-Oct-2022 09:14:26
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

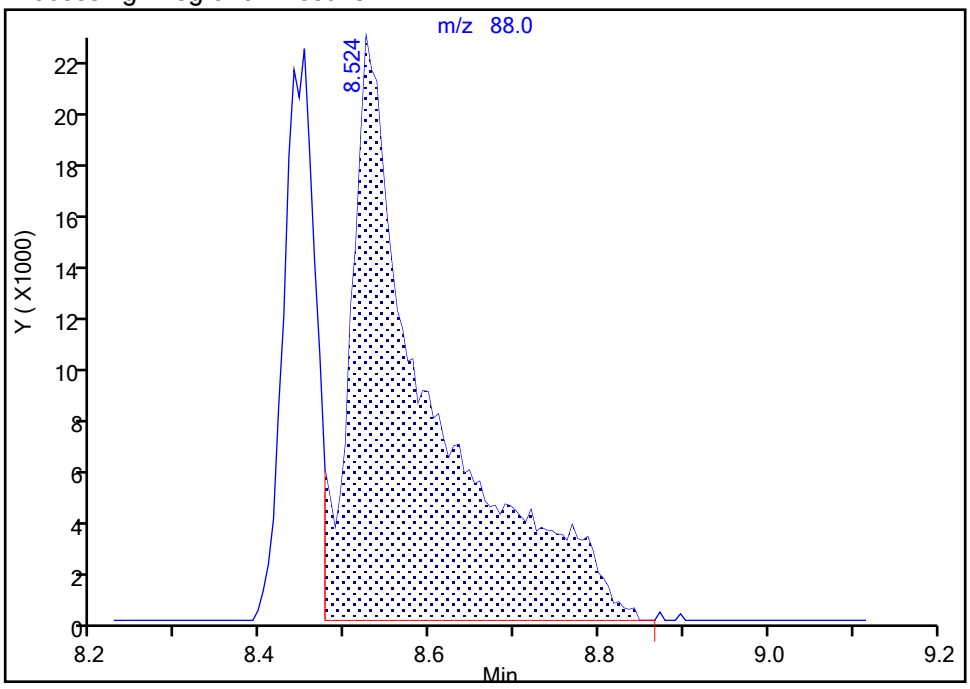
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X12.D				
Injection Date:	11-Oct-2022 18:35:30	Instrument ID:	19930		
Lims ID:	ICIS - LG				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

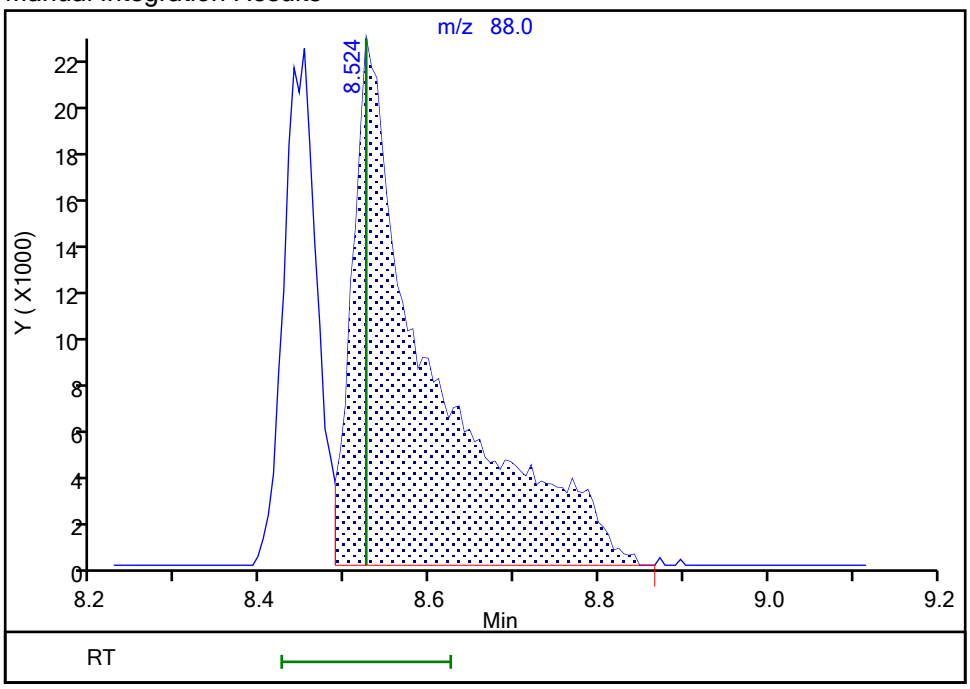
Processing Integration Results

RT: 8.52
Area: 148607
Amount: 672.1950
Amount Units: ug/l



Manual Integration Results

RT: 8.52
Area: 144755
Amount: 551.8176
Amount Units: ug/l



Reviewer: DVW2, 12-Oct-2022 10:44:41

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

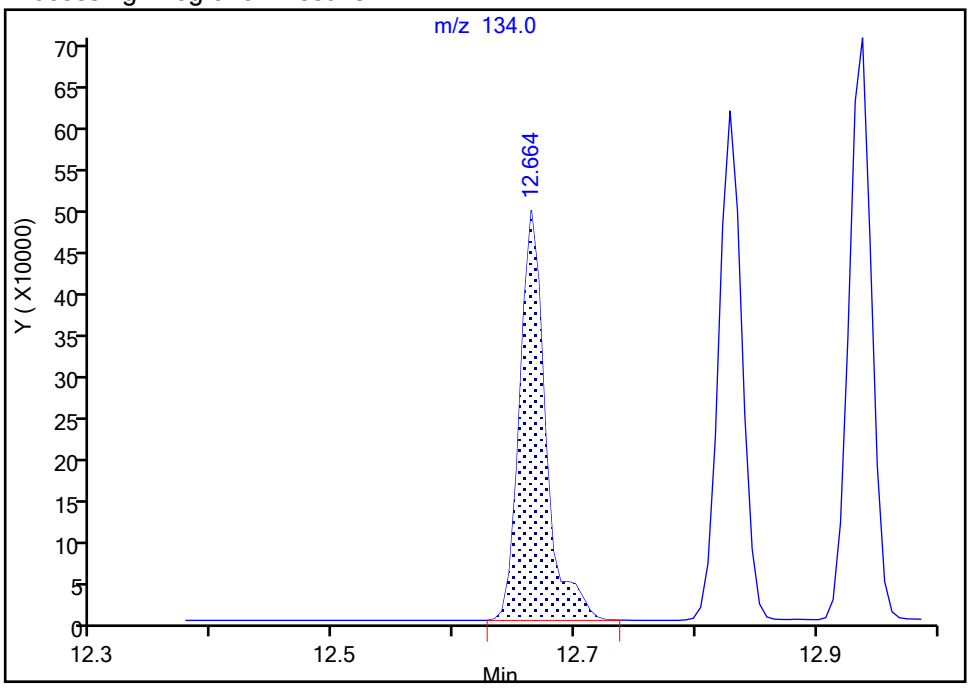
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X12.D				
Injection Date:	11-Oct-2022 18:35:30	Instrument ID:	19930		
Lims ID:	ICIS - LG				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

129 tert-Butylbenzene, CAS: 98-06-6

Signal: 1

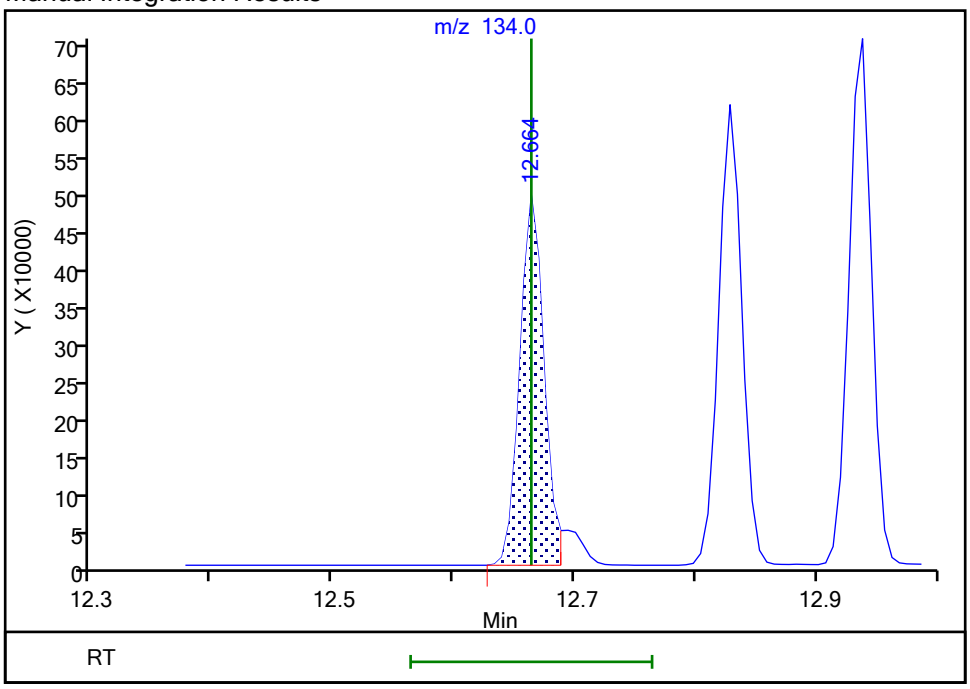
Processing Integration Results

RT: 12.66
Area: 744605
Amount: 10.791022
Amount Units: ug/l



Manual Integration Results

RT: 12.66
Area: 694441
Amount: 10.355372
Amount Units: ug/l



Reviewer: UKEK, 13-Oct-2022 09:42:47
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X13.D
Lims ID: IC std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 11-Oct-2022 18:56:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0068441-014
Misc. Info.: IC STD5
Operator ID: knk41612 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 13-Oct-2022 11:35:22 Calib Date: 11-Oct-2022 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1621

First Level Reviewer: DVW2 Date: 12-Oct-2022 10:47:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.916	1.916	0.000	99	475200	5.00	4.85	
4 Chloromethane	50	2.111	2.111	0.000	99	437178	5.00	4.49	
5 Vinyl chloride	62	2.221	2.227	-0.006	98	453546	5.00	4.76	
6 Butadiene	39	2.239	2.233	0.006	92	383313	5.00	4.57	
7 Bromomethane	94	2.556	2.556	0.000	92	312867	5.00	4.66	
8 Chloroethane	64	2.635	2.641	-0.006	100	263229	5.00	4.63	
9 Dichlorofluoromethane	67	2.873	2.873	0.000	97	621288	5.00	4.67	
10 Trichlorofluoromethane	101	2.934	2.940	-0.006	98	639018	5.00	4.79	
11 Ethyl ether	59	3.178	3.178	0.000	89	225496	5.00	4.73	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.263	3.269	-0.006	90	385055	5.00	4.74	
14 Acrolein	56	3.349	3.343	0.007	99	1722162	250.0	230.4	
15 1,1-Dichloroethene	96	3.489	3.489	0.000	98	291169	5.00	4.75	
16 Acetone	43	3.513	3.513	0.000	99	353027	50.0	41.4	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.526	3.531	-0.005	92	294443	5.00	4.93	
18 Iodomethane	142	3.678	3.678	0.000	99	536749	5.00	4.80	
19 Ethyl bromide	108	3.708	3.702	0.006	99	259340	5.00	4.73	
20 Carbon disulfide	76	3.788	3.781	0.007	99	724398	5.00	4.75	
23 Methyl acetate	43	3.928	3.928	0.000	97	98366	5.00	4.05	M
24 3-Chloro-1-propene	41	3.958	3.958	0.000	90	416198	5.00	4.74	
25 Methylene Chloride	84	4.141	4.141	0.000	90	308501	5.00	4.78	
* 26 t-Butyl alcohol-d10 (IS)	65	4.147	4.141	0.006	95	130469	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.263	4.275	-0.012	100	259068	100.0	93.3	
28 Acrylonitrile	53	4.470	4.476	-0.006	97	132451	12.5	12.2	
29 Methyl tert-butyl ether	73	4.544	4.550	-0.006	94	749157	5.00	4.85	
30 trans-1,2-Dichloroethene	96	4.556	4.556	0.000	99	325368	5.00	4.80	
31 Hexane	57	4.976	4.982	-0.006	91	424459	5.00	4.85	
32 1,1-Dichloroethane	63	5.214	5.214	0.000	96	589490	5.00	4.87	
35 Isopropyl ether	45	5.275	5.275	0.000	93	893697	5.00	4.81	
36 2-Chloro-1,3-butadiene	53	5.324	5.324	0.000	91	466435	5.00	4.86	
37 Tert-butyl ethyl ether	59	5.812	5.805	0.007	97	901650	5.00	4.75	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2-Butanone (MEK)	43	6.001	6.001	0.000	99	715391	50.0	46.3	
39 cis-1,2-Dichloroethene	96	6.043	6.043	0.000	82	359657	5.00	4.80	
40 2,2-Dichloropropane	77	6.062	6.055	0.007	87	520639	5.00	4.79	
43 Propionitrile	54	6.092	6.086	0.006	99	405125	100.0	99.4	M
S 41 1,2-Dichloroethene, Total	100				0			9.60	
45 Methacrylonitrile	67	6.305	6.305	0.000	90	795642	50.0	47.8	
46 Chlorobromomethane	128	6.373	6.372	0.001	89	159879	5.00	4.82	
47 Tetrahydrofuran	71	6.385	6.391	-0.006	74	108920	25.0	23.9	
48 Chloroform	83	6.525	6.525	0.000	93	585579	5.00	4.82	
$ 49 Dibromofluoromethane (Surr)	113	6.738	6.738	0.000	93	596716	10.0	10.0	
50 1,1,1-Trichloroethane	97	6.757	6.756	0.001	98	559346	5.00	4.85	
51 Cyclohexane	56	6.854	6.854	0.000	89	517580	5.00	4.85	
53 1,1-Dichloropropene	75	6.964	6.964	0.000	95	465871	5.00	4.82	
54 Carbon tetrachloride	117	6.970	6.970	0.000	96	489809	5.00	4.88	
55 Isobutyl alcohol	41	7.110	7.110	0.000	95	224842	250.0	235.2	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.183	7.189	-0.006	99	117524	10.0	9.93	
57 Benzene	78	7.226	7.226	0.000	96	1343683	5.00	4.80	
58 1,2-Dichloroethane	62	7.293	7.293	0.000	98	361707	5.00	4.77	
60 Tert-amyl methyl ether	73	7.415	7.415	0.000	99	853632	5.00	4.88	
* 61 Fluorobenzene (IS)	96	7.628	7.628	0.000	99	2362863	10.0	10.0	
62 n-Heptane	43	7.641	7.640	0.001	90	422701	5.00	4.63	
63 n-Butanol	56	7.994	7.988	0.006	87	398922	437.5	492.6	
64 Trichloroethene	95	8.104	8.110	-0.006	97	368952	5.00	4.80	
65 Methylcyclohexane	83	8.415	8.415	0.000	91	606377	5.00	4.88	
66 1,2-Dichloropropane	63	8.433	8.433	0.000	88	329049	5.00	4.86	
67 Methyl methacrylate	69	8.525	8.518	0.007	86	154464	5.00	5.12	
68 1,4-Dioxane	88	8.531	8.524	0.007	34	73049	250.0	278.6	M
69 Dibromomethane	93	8.549	8.549	0.000	94	165082	5.00	4.87	
71 Dichlorobromomethane	83	8.781	8.780	0.001	99	408735	5.00	4.94	
72 2-Nitropropane	41	9.043	9.043	0.000	99	219060	25.0	23.9	
75 1-Bromo-2-chloroethane	63	9.177	9.177	0.000	98	320770	5.00	4.73	
76 cis-1,3-Dichloropropene	75	9.329	9.329	0.000	97	508053	5.00	4.92	
77 4-Methyl-2-pentanone (MIBK)	43	9.500	9.500	0.000	95	1999817	50.0	49.0	
$ 78 Toluene-d8 (Surr)	98	9.640	9.640	0.000	93	2369343	10.0	9.91	
79 Toluene	92	9.719	9.719	0.000	98	893032	5.00	4.75	
97 trans-1,3-Dichloropropene	75	9.975	9.975	0.000	92	421763	5.00	5.00	
99 Ethyl methacrylate	69	10.036	10.036	0.000	88	335364	5.00	5.09	
S 98 1,3-Dichloropropene, Total	100				0			9.92	
100 1,1,2-Trichloroethane	97	10.183	10.183	0.000	91	238069	5.00	4.80	
101 Tetrachloroethene	166	10.274	10.274	0.000	98	439676	5.00	4.81	
102 1,3-Dichloropropane	76	10.341	10.341	0.000	89	402399	5.00	4.84	
103 2-Hexanone	43	10.396	10.390	0.006	96	1424449	50.0	49.9	
105 Chlorodibromomethane	129	10.561	10.561	0.000	90	295273	5.00	5.07	
106 Ethylene Dibromide	107	10.670	10.670	0.000	98	235238	5.00	4.90	
* 107 Chlorobenzene-d5 (IS)	117	11.103	11.103	0.000	85	1808345	10.0	10.0	
108 1-Chlorohexane	91	11.109	11.109	0.000	95	506909	5.00	4.71	
109 Chlorobenzene	112	11.128	11.128	0.000	95	993344	5.00	4.74	
112 Ethylbenzene	91	11.213	11.213	0.000	98	1738765	5.00	4.83	
111 1,1,1,2-Tetrachloroethane	131	11.213	11.213	0.000	96	351291	5.00	4.84	
S 110 Xylenes, Total	106				0			14.5	
113 m-Xylene & p-Xylene	106	11.329	11.329	0.000	100	1380604	10.0	9.65	
114 o-Xylene	106	11.658	11.658	0.000	96	673564	5.00	4.82	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Styrene	104	11.676	11.676	0.000	95	1088899	5.00	4.94	
116 Bromoform	173	11.835	11.835	0.000	98	163979	5.00	5.12	
117 Isopropylbenzene	105	11.957	11.957	0.000	96	1768605	5.00	4.84	
$ 120 4-Bromofluorobenzene (Surr)	95	12.103	12.103	0.000	92	879228	10.0	9.94	
121 1,1,2,2-Tetrachloroethane	83	12.201	12.201	0.000	93	292819	5.00	4.92	
122 Bromobenzene	156	12.219	12.219	0.000	97	415344	5.00	4.92	
123 trans-1,4-Dichloro-2-butene	53	12.225	12.225	0.000	93	761543	50.0	50.0	
124 1,2,3-Trichloropropane	110	12.249	12.249	0.000	80	82389	5.00	4.94	
125 N-Propylbenzene	91	12.286	12.286	0.000	99	2010174	5.00	4.98	
126 2-Chlorotoluene	126	12.365	12.365	0.000	97	417985	5.00	4.92	
127 1,3,5-Trimethylbenzene	105	12.426	12.420	0.006	94	1472528	5.00	4.94	
128 4-Chlorotoluene	126	12.457	12.457	0.000	97	424908	5.00	4.91	
129 tert-Butylbenzene	134	12.664	12.664	0.000	92	325843	5.00	4.89	M
130 Pentachloroethane	167	12.701	12.700	0.001	92	261182	5.00	4.87	
131 1,2,4-Trimethylbenzene	105	12.707	12.707	0.000	97	1491242	5.00	4.97	
132 sec-Butylbenzene	105	12.829	12.828	0.001	94	1879056	5.00	4.99	
133 1,3-Dichlorobenzene	146	12.932	12.926	0.006	98	812136	5.00	4.93	
134 4-Isopropyltoluene	119	12.938	12.938	0.000	97	1646230	5.00	5.01	
* 135 1,4-Dichlorobenzene-d4	152	12.981	12.981	0.000	95	1025380	10.0	10.0	
136 1,4-Dichlorobenzene	146	13.005	12.999	0.006	95	836175	5.00	4.86	
137 1,2,3-Trimethylbenzene	120	13.011	13.011	0.000	98	645139	5.00	4.88	
138 Benzyl chloride	126	13.079	13.078	0.001	98	121172	5.00	5.12	
139 n-Butylbenzene	92	13.225	13.225	0.000	97	771830	5.00	5.09	
140 1,2-Dichlorobenzene	146	13.261	13.261	0.000	99	751702	5.00	4.90	
142 1,2-Dibromo-3-Chloropropane	155	13.804	13.804	0.000	87	45471	5.00	5.48	
143 1,3,5-Trichlorobenzene	180	13.932	13.932	0.000	98	584276	5.00	4.95	
144 1,2,4-Trichlorobenzene	180	14.353	14.353	0.000	94	509384	5.00	5.02	
145 Hexachlorobutadiene	225	14.432	14.432	0.000	97	199616	5.00	4.42	
146 Naphthalene	128	14.529	14.529	0.000	97	944426	5.00	5.02	
147 1,2,3-Trichlorobenzene	180	14.676	14.676	0.000	96	437204	5.00	5.00	
161 Pentane	43		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
165 Isopropyl alcohol	45		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00056	Amount Added:	5.00	Units: uL	
MSV_LL_#2_826_00060	Amount Added:	5.00	Units: uL	
MSV_LL_GAS826_00116	Amount Added:	5.00	Units: uL	
MSV_LLcentISS_00005	Amount Added:	5.00	Units: uL	Run Reagent

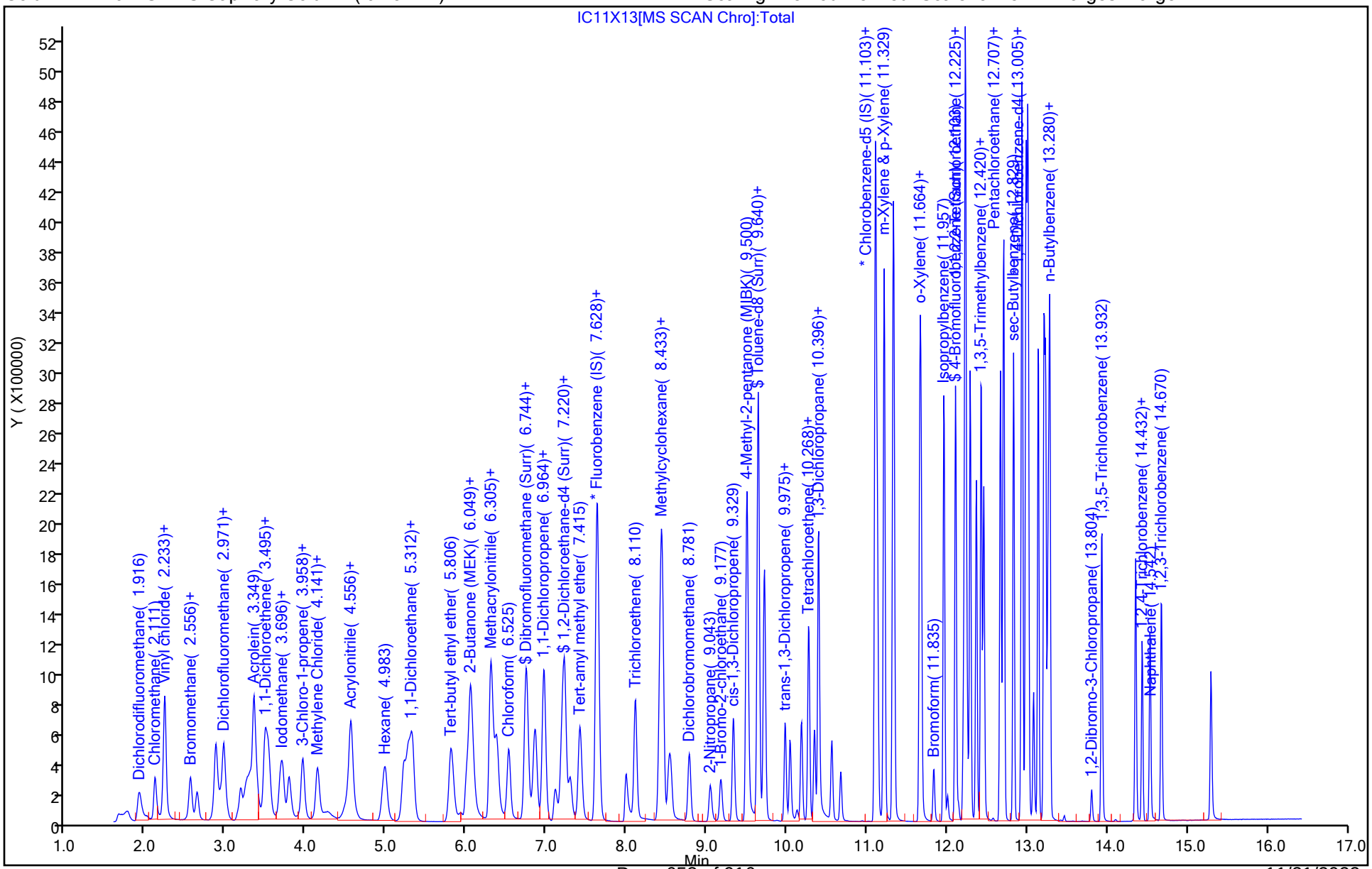
Report Date: 13-Oct-2022 11:35:23 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X13.D

Injection Date:	11-Oct-2022 18:56:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	IC std5			Worklist Smp#:	14
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

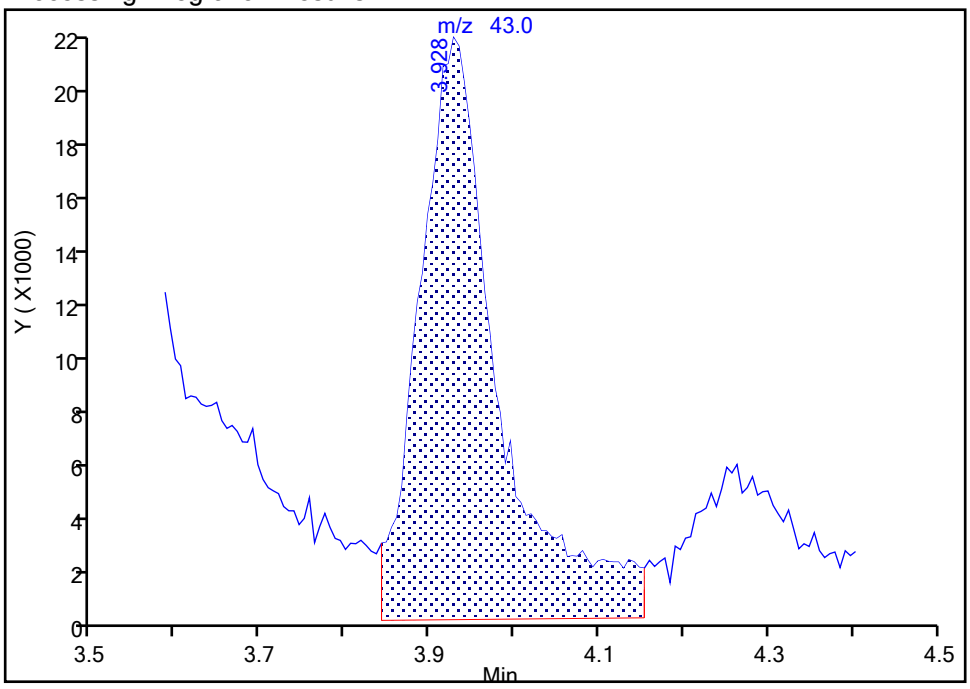
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X13.D				
Injection Date:	11-Oct-2022 18:56:30	Instrument ID:	19930		
Lims ID:	IC std5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

23 Methyl acetate, CAS: 79-20-9

Signal: 1

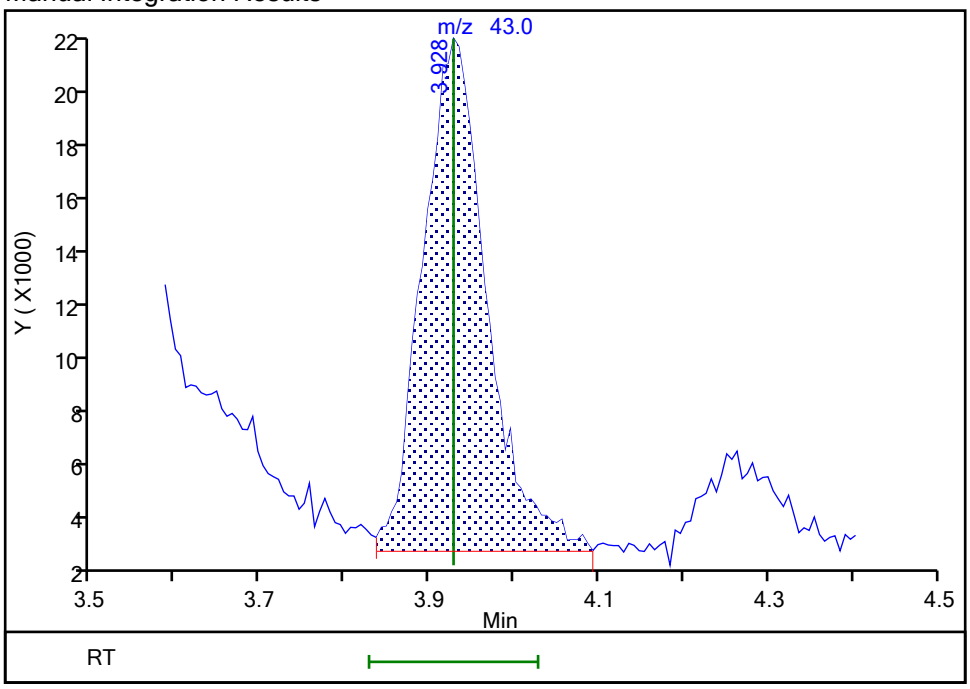
Processing Integration Results

RT: 3.93
Area: 132898
Amount: 5.856915
Amount Units: ug/l



Manual Integration Results

RT: 3.93
Area: 98366
Amount: 4.054755
Amount Units: ug/l



Reviewer: DVW2, 12-Oct-2022 10:45:53
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

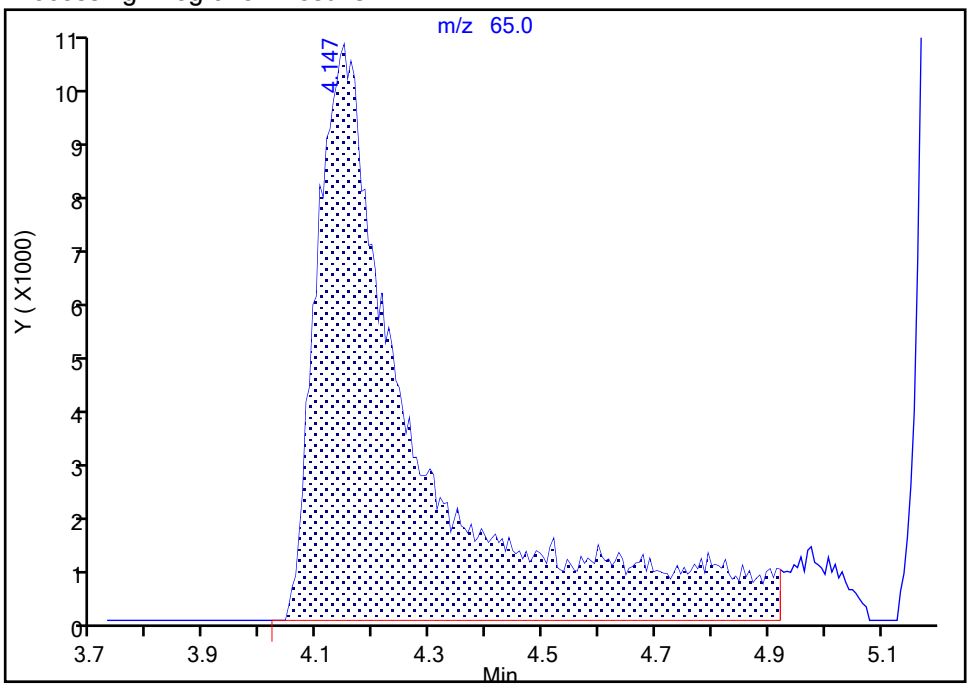
Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X13.D
Injection Date: 11-Oct-2022 18:56:30 Instrument ID: 19930
Lims ID: IC std5
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

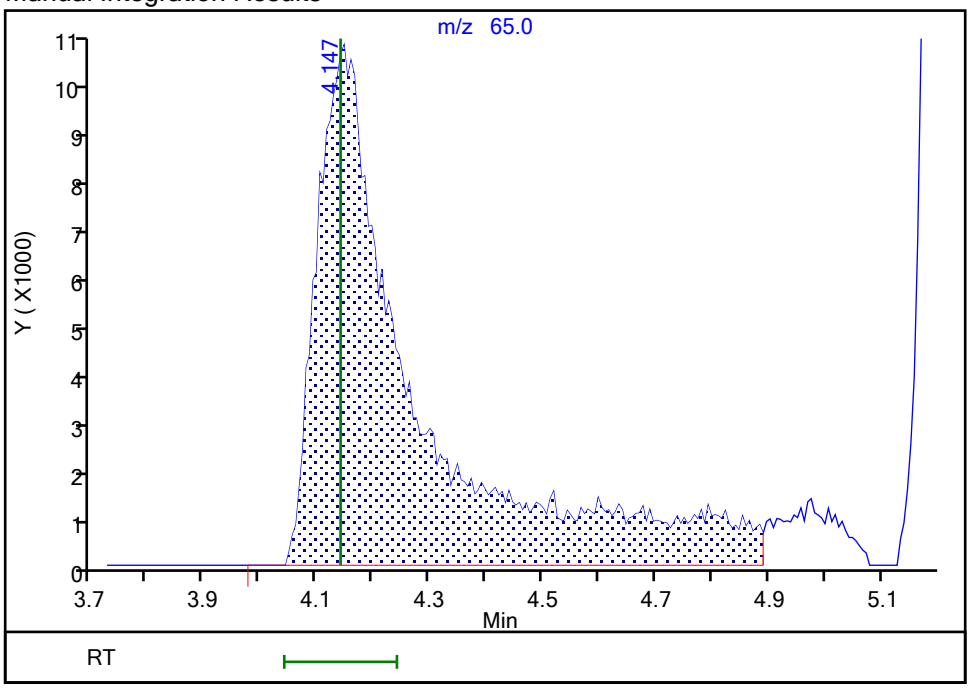
Processing Integration Results

RT: 4.15
Area: 132130
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.15
Area: 130469
Amount: 50.000000
Amount Units: ug/l



Reviewer: UKEK, 13-Oct-2022 09:15:26
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

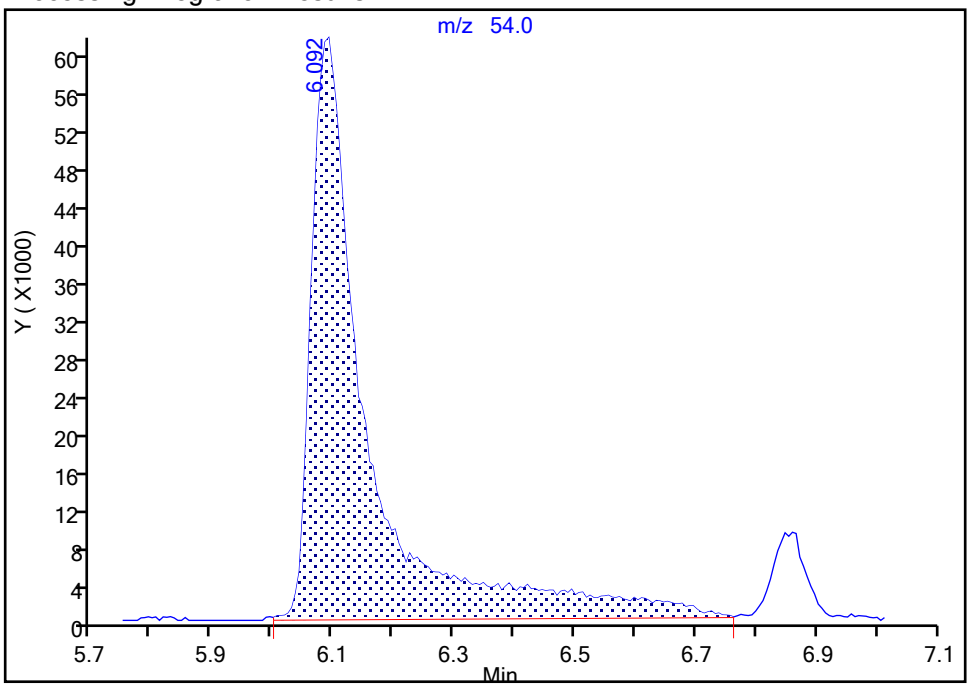
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X13.D				
Injection Date:	11-Oct-2022 18:56:30	Instrument ID:	19930		
Lims ID:	IC std5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

43 Propionitrile, CAS: 107-12-0

Signal: 1

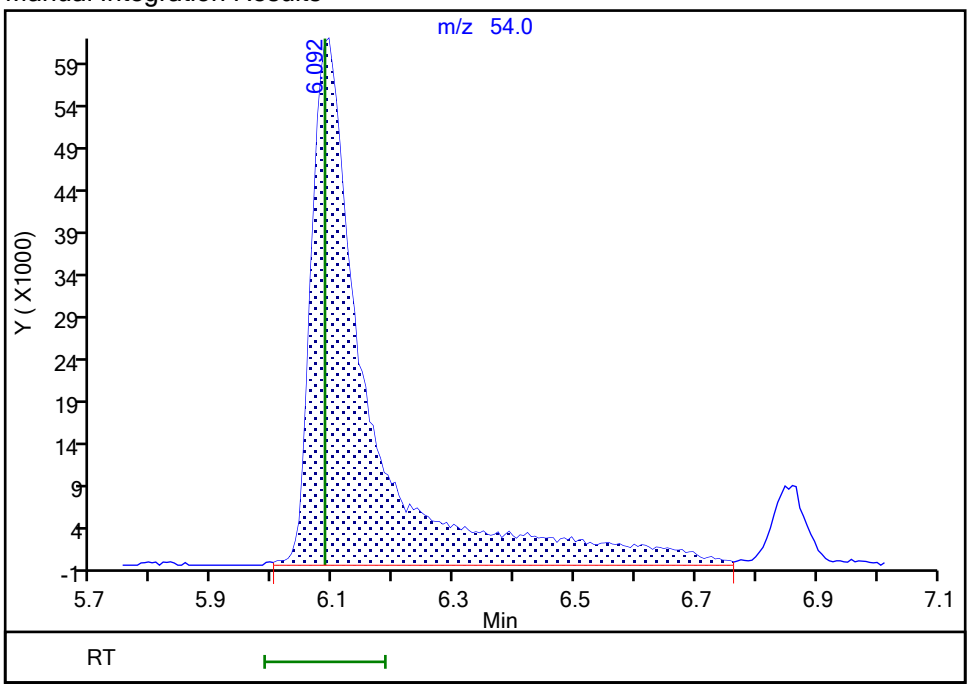
Processing Integration Results

RT: 6.09
Area: 397705
Amount: 95.520403
Amount Units: ug/l



Manual Integration Results

RT: 6.09
Area: 405125
Amount: 99.351814
Amount Units: ug/l



Reviewer: DVW2, 12-Oct-2022 10:46:20
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

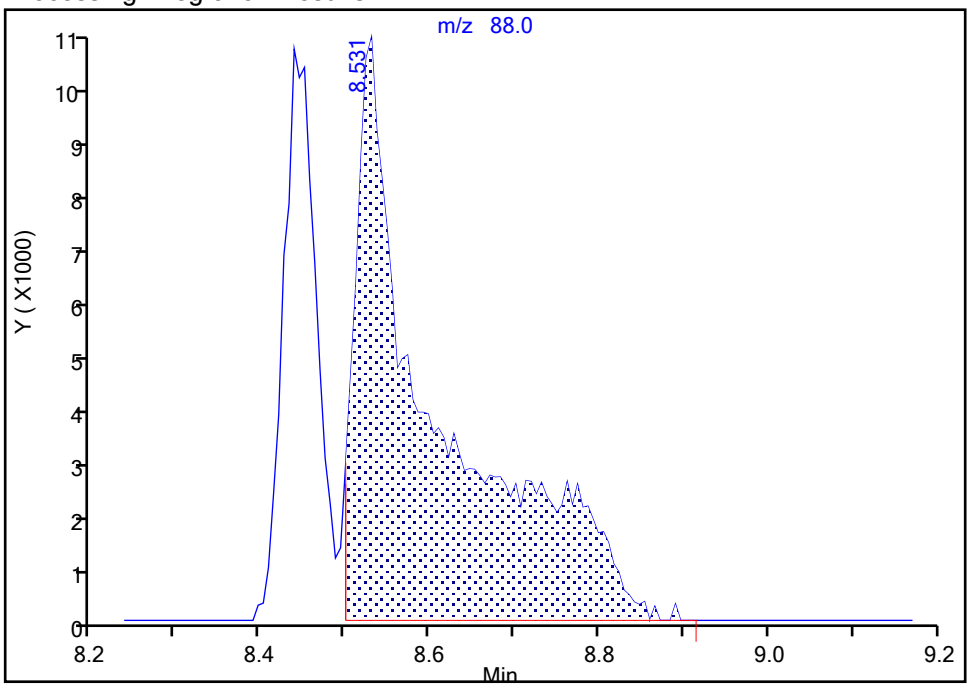
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X13.D				
Injection Date:	11-Oct-2022 18:56:30	Instrument ID:	19930		
Lims ID:	IC std5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

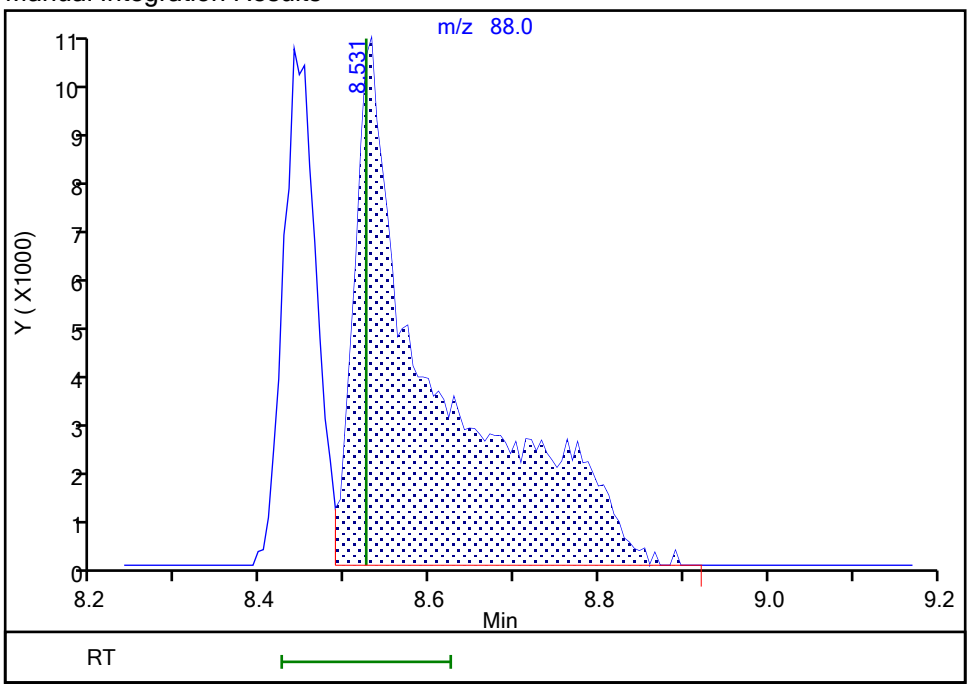
Processing Integration Results

RT: 8.53
Area: 72131
Amount: 325.0904
Amount Units: ug/l



Manual Integration Results

RT: 8.53
Area: 73049
Amount: 278.6351
Amount Units: ug/l



Reviewer: DVW2, 12-Oct-2022 10:46:41
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

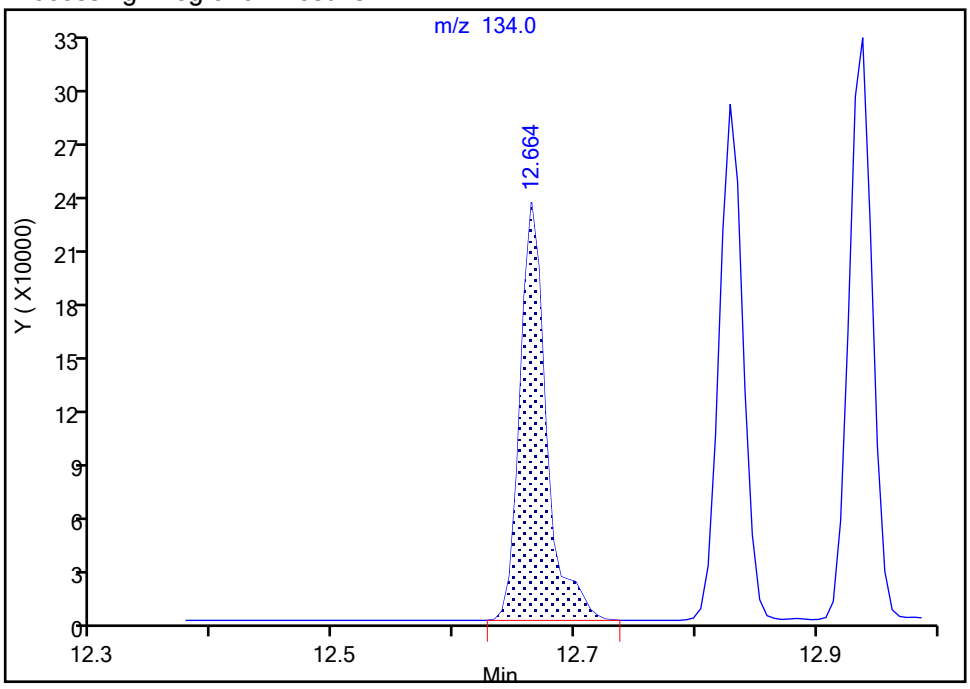
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X13.D				
Injection Date:	11-Oct-2022 18:56:30	Instrument ID:	19930		
Lims ID:	IC std5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

129 tert-Butylbenzene, CAS: 98-06-6

Signal: 1

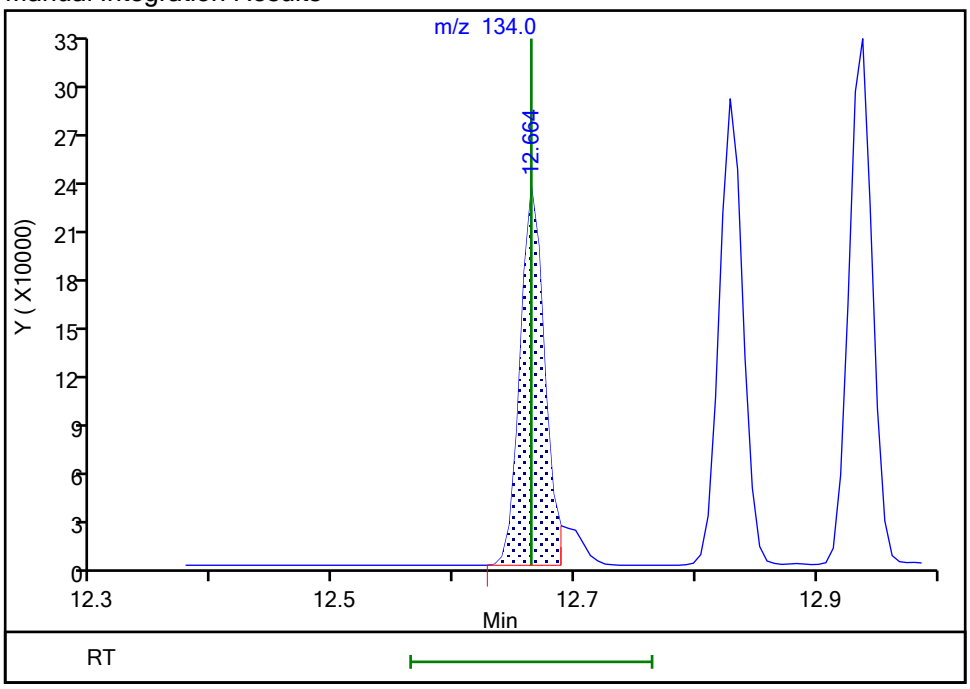
Processing Integration Results

RT: 12.66
Area: 350458
Amount: 5.060884
Amount Units: ug/l



Manual Integration Results

RT: 12.66
Area: 325843
Amount: 4.891316
Amount Units: ug/l



Reviewer: UKEK, 13-Oct-2022 09:42:27
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X14.D
Lims ID: IC std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 11-Oct-2022 19:16:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0068441-015
Misc. Info.: IC STD4
Operator ID: knk41612 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 13-Oct-2022 11:35:28 Calib Date: 11-Oct-2022 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1621

First Level Reviewer: DVW2 Date: 12-Oct-2022 10:48:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.922	1.916	0.006	99	211839	2.00	2.18	
4 Chloromethane	50	2.117	2.111	0.006	99	202649	2.00	2.11	
5 Vinyl chloride	62	2.227	2.227	0.000	97	199158	2.00	2.11	
6 Butadiene	39	2.239	2.233	0.006	92	164482	2.00	1.98	
7 Bromomethane	94	2.556	2.556	0.000	90	138352	2.00	2.08	
8 Chloroethane	64	2.648	2.641	0.007	99	115411	2.00	2.05	
9 Dichlorofluoromethane	67	2.873	2.873	0.000	97	272638	2.00	2.07	
10 Trichlorofluoromethane	101	2.885	2.940	-0.055	98	282318	2.00	2.14	
11 Ethyl ether	59	3.190	3.178	0.012	89	97591	2.00	2.07	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.269	3.269	0.000	91	169898	2.00	2.11	
14 Acrolein	56	3.355	3.343	0.013	99	718210	100.0	92.5	
15 1,1-Dichloroethene	96	3.489	3.489	0.000	98	114306	2.00	1.89	
16 Acetone	43	3.513	3.513	0.000	99	160947	20.0	18.2	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.532	3.531	0.001	91	111106	2.00	1.88	
18 Iodomethane	142	3.684	3.678	0.006	99	215186	2.00	1.94	
19 Ethyl bromide	108	3.714	3.702	0.012	98	112313	2.00	2.07	
20 Carbon disulfide	76	3.794	3.781	0.013	99	284878	2.00	1.89	
23 Methyl acetate	43	3.934	3.928	0.006	95	43457	2.00	1.72	M
24 3-Chloro-1-propene	41	3.964	3.958	0.006	89	169467	2.00	1.95	
25 Methylene Chloride	84	4.141	4.141	0.000	90	126398	2.00	1.98	
* 26 t-Butyl alcohol-d10 (IS)	65	4.153	4.141	0.012	95	135500	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.288	4.275	0.013	99	114882	40.0	39.8	
28 Acrylonitrile	53	4.495	4.476	0.019	96	56269	5.00	4.99	
29 Methyl tert-butyl ether	73	4.550	4.550	0.000	94	310528	2.00	2.03	
30 trans-1,2-Dichloroethene	96	4.568	4.556	0.012	99	129375	2.00	1.93	
31 Hexane	57	4.983	4.982	0.001	91	161782	2.00	1.87	
32 1,1-Dichloroethane	63	5.220	5.214	0.006	96	233800	2.00	1.95	
35 Isopropyl ether	45	5.281	5.275	0.006	93	369290	2.00	2.01	
36 2-Chloro-1,3-butadiene	53	5.330	5.324	0.006	90	182912	2.00	1.93	
37 Tert-butyl ethyl ether	59	5.806	5.805	0.001	97	377218	2.00	2.01	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2-Butanone (MEK)	43	6.007	6.001	0.006	99	308481	20.0	19.2	
39 cis-1,2-Dichloroethene	96	6.049	6.043	0.006	82	143507	2.00	1.94	
40 2,2-Dichloropropane	77	6.062	6.055	0.007	87	207943	2.00	1.93	
43 Propionitrile	54	6.086	6.086	0.000	98	177834	40.0	42.0	
S 41 1,2-Dichloroethene, Total	100				0			3.86	
45 Methacrylonitrile	67	6.305	6.305	0.000	90	328953	20.0	19.0	
46 Chlorobromomethane	128	6.385	6.372	0.013	88	65350	2.00	1.99	
47 Tetrahydrofuran	71	6.379	6.391	-0.012	74	45979	10.0	9.73	
48 Chloroform	83	6.531	6.525	0.006	93	236686	2.00	1.97	
$ 49 Dibromofluoromethane (Surr)	113	6.744	6.738	0.006	94	593528	10.0	10.1	
50 1,1,1-Trichloroethane	97	6.757	6.756	0.001	98	219585	2.00	1.92	
51 Cyclohexane	56	6.860	6.854	0.006	88	197202	2.00	1.87	
53 1,1-Dichloropropene	75	6.970	6.964	0.006	97	183085	2.00	1.91	
54 Carbon tetrachloride	117	6.970	6.970	0.000	97	191460	2.00	1.93	
55 Isobutyl alcohol	41	7.116	7.110	0.006	94	95808	100.0	96.5	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.189	7.189	0.000	99	119687	10.0	10.2	
57 Benzene	78	7.226	7.226	0.000	96	541230	2.00	1.95	
58 1,2-Dichloroethane	62	7.299	7.293	0.006	98	150689	2.00	2.01	
60 Tert-amyl methyl ether	73	7.421	7.415	0.006	99	353262	2.00	2.04	
* 61 Fluorobenzene (IS)	96	7.628	7.628	0.000	99	2337590	10.0	10.0	
62 n-Heptane	43	7.641	7.640	0.001	88	166936	2.00	1.85	
63 n-Butanol	56	8.006	7.988	0.018	87	152320	175.0	181.1	
64 Trichloroethene	95	8.110	8.110	0.000	98	145422	2.00	1.91	
65 Methylcyclohexane	83	8.415	8.415	0.000	92	234094	2.00	1.90	
66 1,2-Dichloropropane	63	8.439	8.433	0.006	96	131844	2.00	1.97	
67 Methyl methacrylate	69	8.525	8.518	0.006	87	61794	2.00	1.97	
68 1,4-Dioxane	88	8.543	8.524	0.019	33	28783	100.0	105.7	M
69 Dibromomethane	93	8.549	8.549	0.000	93	67593	2.00	2.02	
71 Dichlorobromomethane	83	8.781	8.780	0.001	99	164184	2.00	2.00	
72 2-Nitropropane	41	9.049	9.043	0.006	99	92855	10.0	9.74	
75 1-Bromo-2-chloroethane	63	9.177	9.177	0.000	98	137989	2.00	2.06	
76 cis-1,3-Dichloropropene	75	9.329	9.329	0.000	97	205568	2.00	2.01	
77 4-Methyl-2-pentanone (MIBK)	43	9.500	9.500	0.000	95	850672	20.0	20.1	
$ 78 Toluene-d8 (Surr)	98	9.640	9.640	0.000	93	2340027	10.0	10.0	
79 Toluene	92	9.719	9.719	0.000	98	356328	2.00	1.94	
97 trans-1,3-Dichloropropene	75	9.982	9.975	0.007	92	169812	2.00	2.06	
99 Ethyl methacrylate	69	10.043	10.036	0.006	88	136636	2.00	2.12	
S 98 1,3-Dichloropropene, Total	100				0			4.07	
100 1,1,2-Trichloroethane	97	10.183	10.183	0.000	91	97810	2.00	2.02	
101 Tetrachloroethene	166	10.274	10.274	0.000	98	173393	2.00	1.94	
102 1,3-Dichloropropane	76	10.347	10.341	0.006	89	165619	2.00	2.04	
103 2-Hexanone	43	10.396	10.390	0.006	95	605068	20.0	20.4	
105 Chlorodibromomethane	129	10.561	10.561	0.000	89	118438	2.00	2.08	
106 Ethylene Dibromide	107	10.670	10.670	0.000	97	96208	2.00	2.05	
* 107 Chlorobenzene-d5 (IS)	117	11.103	11.103	0.000	86	1768404	10.0	10.0	
108 1-Chlorohexane	91	11.109	11.109	0.000	96	194890	2.00	1.85	
109 Chlorobenzene	112	11.128	11.128	0.000	97	403823	2.00	1.97	
112 Ethylbenzene	91	11.213	11.213	0.000	98	684633	2.00	1.95	
111 1,1,1,2-Tetrachloroethane	131	11.213	11.213	0.000	95	142404	2.00	2.01	
S 110 Xylenes, Total	106				0			5.86	
113 m-Xylene & p-Xylene	106	11.329	11.329	0.000	100	547993	4.00	3.92	
114 o-Xylene	106	11.658	11.658	0.000	96	265847	2.00	1.94	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Styrene	104	11.676	11.676	0.000	95	425417	2.00	1.97	
116 Bromoform	173	11.835	11.835	0.000	97	60932	2.00	1.95	
117 Isopropylbenzene	105	11.957	11.957	0.000	95	701503	2.00	1.96	
$ 120 4-Bromofluorobenzene (Surr)	95	12.103	12.103	0.000	93	863153	10.0	9.97	
121 1,1,2,2-Tetrachloroethane	83	12.201	12.201	0.000	93	122761	2.00	2.05	
122 Bromobenzene	156	12.219	12.219	0.000	96	166652	2.00	1.97	
123 trans-1,4-Dichloro-2-butene	53	12.231	12.225	0.006	93	306963	20.0	19.4	
124 1,2,3-Trichloropropane	110	12.249	12.249	0.000	79	34855	2.00	2.08	
125 N-Propylbenzene	91	12.286	12.286	0.000	99	787760	2.00	1.94	
126 2-Chlorotoluene	126	12.365	12.365	0.000	97	166654	2.00	1.95	
127 1,3,5-Trimethylbenzene	105	12.426	12.420	0.006	94	586604	2.00	1.96	
128 4-Chlorotoluene	126	12.457	12.457	0.000	97	169851	2.00	1.96	
129 tert-Butylbenzene	134	12.664	12.664	0.000	92	128232	2.00	1.92	M
130 Pentachloroethane	167	12.701	12.700	0.001	90	108930	2.00	2.02	
131 1,2,4-Trimethylbenzene	105	12.707	12.707	0.000	97	592785	2.00	1.97	
132 sec-Butylbenzene	105	12.829	12.828	0.001	94	741309	2.00	1.96	
133 1,3-Dichlorobenzene	146	12.932	12.926	0.006	98	325559	2.00	1.97	
134 4-Isopropyltoluene	119	12.938	12.938	0.000	97	643013	2.00	1.95	
* 135 1,4-Dichlorobenzene-d4	152	12.987	12.981	0.006	94	1029827	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.999	12.999	0.000	96	343406	2.00	1.99	
137 1,2,3-Trimethylbenzene	120	13.011	13.011	0.000	98	256402	2.00	1.93	
138 Benzyl chloride	126	13.078	13.078	0.000	98	49556	2.00	2.09	
139 n-Butylbenzene	92	13.225	13.225	0.000	96	295762	2.00	1.94	
140 1,2-Dichlorobenzene	146	13.261	13.261	0.000	99	311063	2.00	2.02	
142 1,2-Dibromo-3-Chloropropane	155	13.804	13.804	0.000	88	18899	2.00	2.27	
143 1,3,5-Trichlorobenzene	180	13.932	13.932	0.000	98	234852	2.00	1.98	
144 1,2,4-Trichlorobenzene	180	14.353	14.353	0.000	94	203818	2.00	2.00	
145 Hexachlorobutadiene	225	14.432	14.432	0.000	96	82029	2.00	1.81	
146 Naphthalene	128	14.536	14.529	0.007	97	391035	2.00	2.07	
147 1,2,3-Trichlorobenzene	180	14.676	14.676	0.000	96	181113	2.00	2.06	
161 Pentane	43		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
165 Isopropyl alcohol	45		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00056	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00060	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00116	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 13-Oct-2022 11:35:29 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X14.D

Injection Date: 11-Oct-2022 19:16:30 Instrument ID: 19930 Operator ID: knk41612

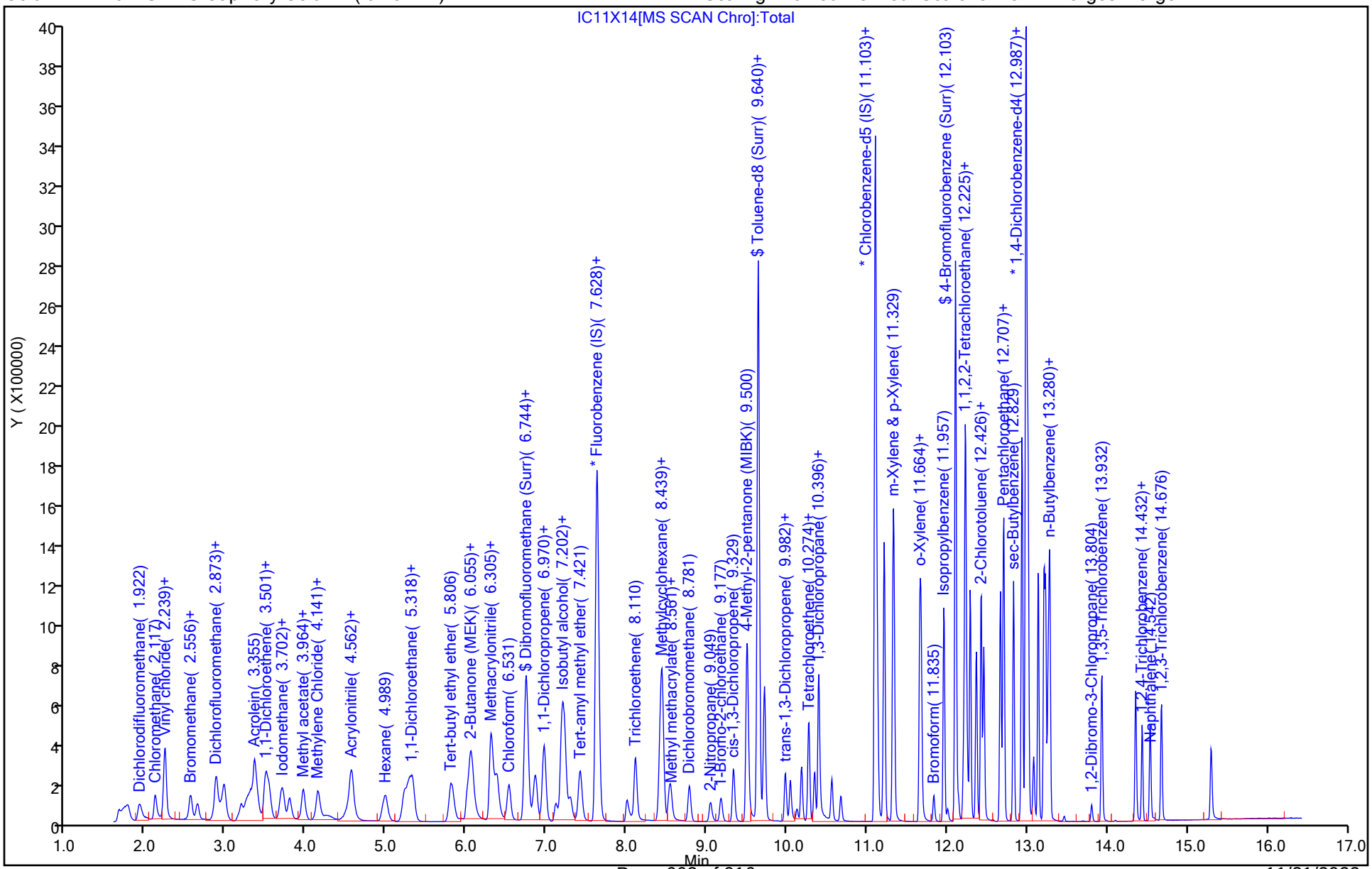
Lims ID: IC std4 Worklist Smp#: 15

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 14

Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

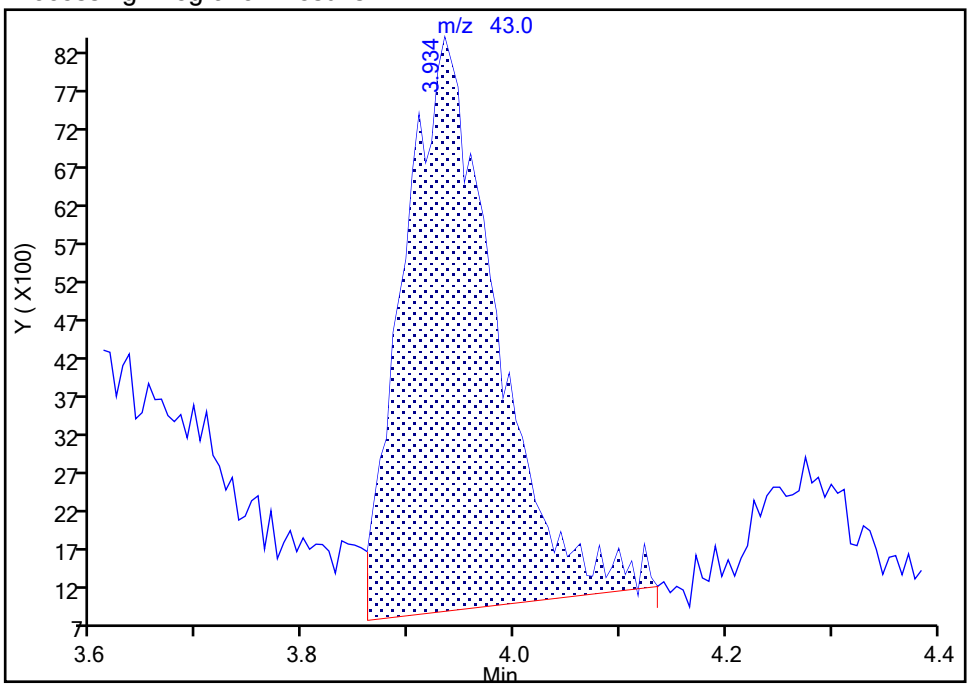
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X14.D				
Injection Date:	11-Oct-2022 19:16:30	Instrument ID:	19930		
Lims ID:	IC std4				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

23 Methyl acetate, CAS: 79-20-9

Signal: 1

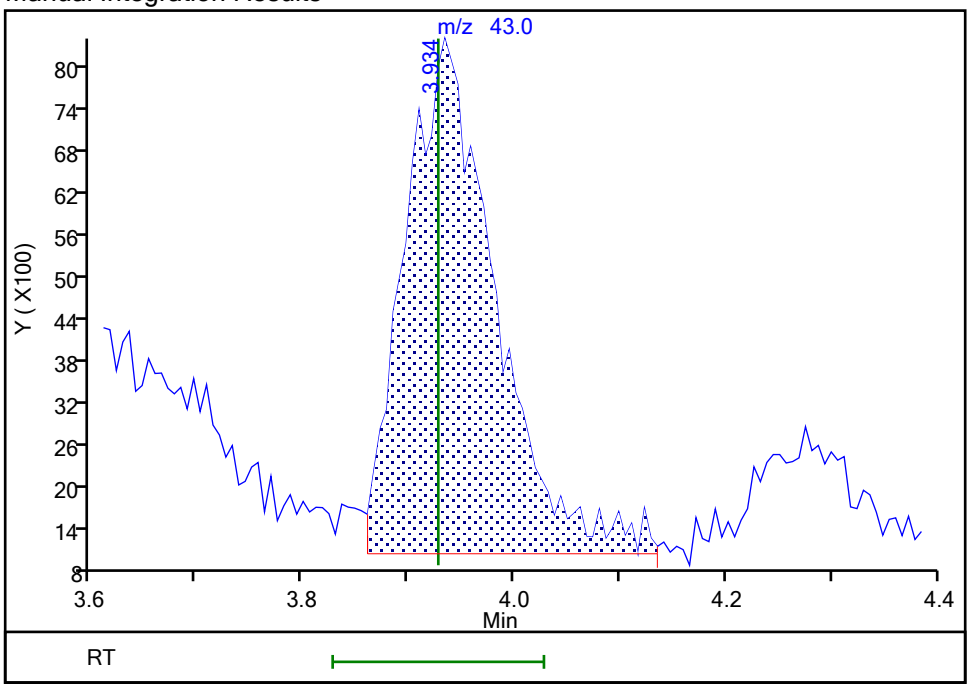
Processing Integration Results

RT: 3.93
Area: 45442
Amount: 2.028239
Amount Units: ug/l



Manual Integration Results

RT: 3.93
Area: 43457
Amount: 1.724834
Amount Units: ug/l



Reviewer: DVW2, 12-Oct-2022 10:47:49
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

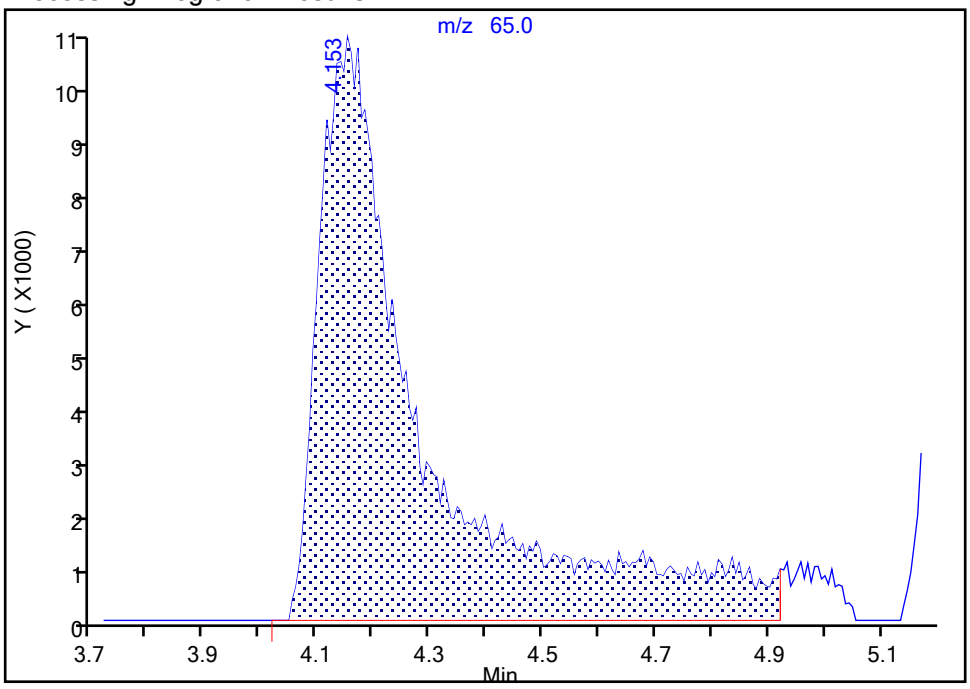
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X14.D				
Injection Date:	11-Oct-2022 19:16:30	Instrument ID:	19930		
Lims ID:	IC std4				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

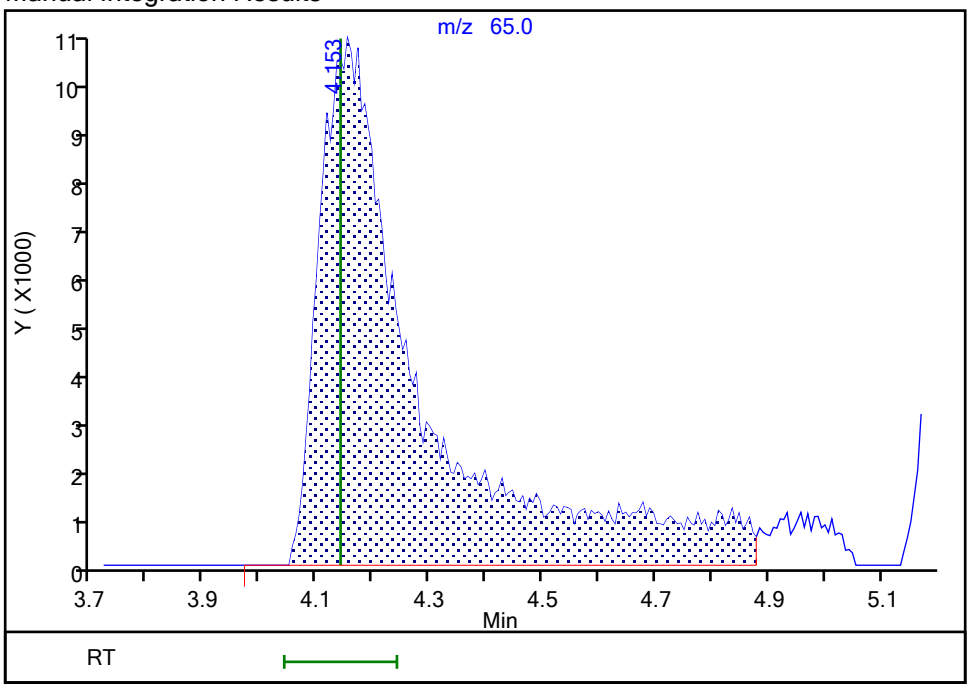
Processing Integration Results

RT: 4.15
Area: 137397
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.15
Area: 135500
Amount: 50.000000
Amount Units: ug/l



Reviewer: UKEK, 13-Oct-2022 09:15:56
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

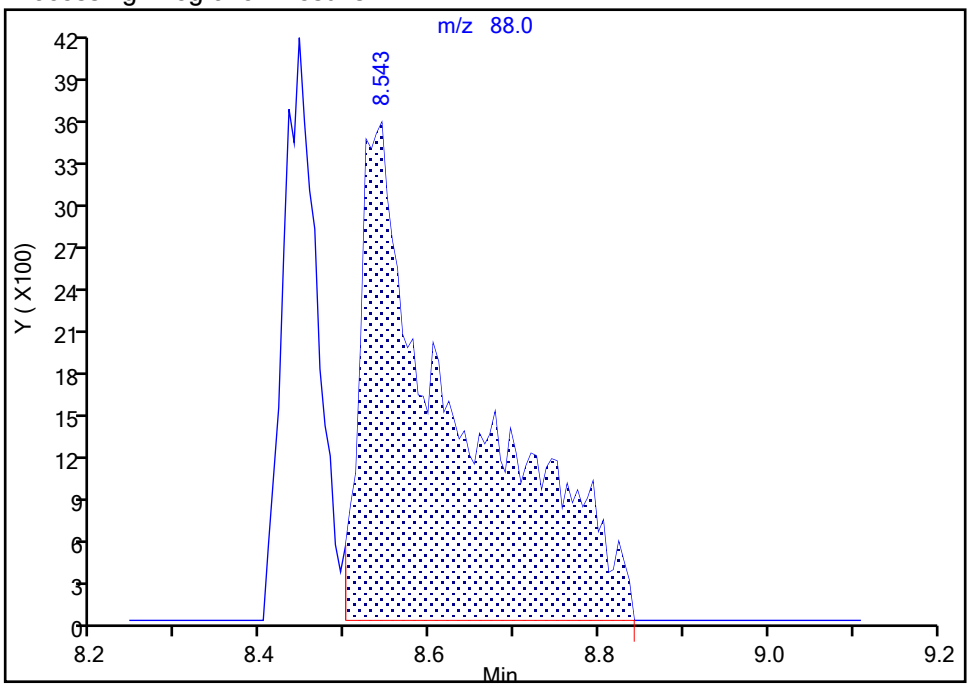
Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X14.D
Injection Date: 11-Oct-2022 19:16:30 Instrument ID: 19930
Lims ID: IC std4
Client ID:
Operator ID: knk41612 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

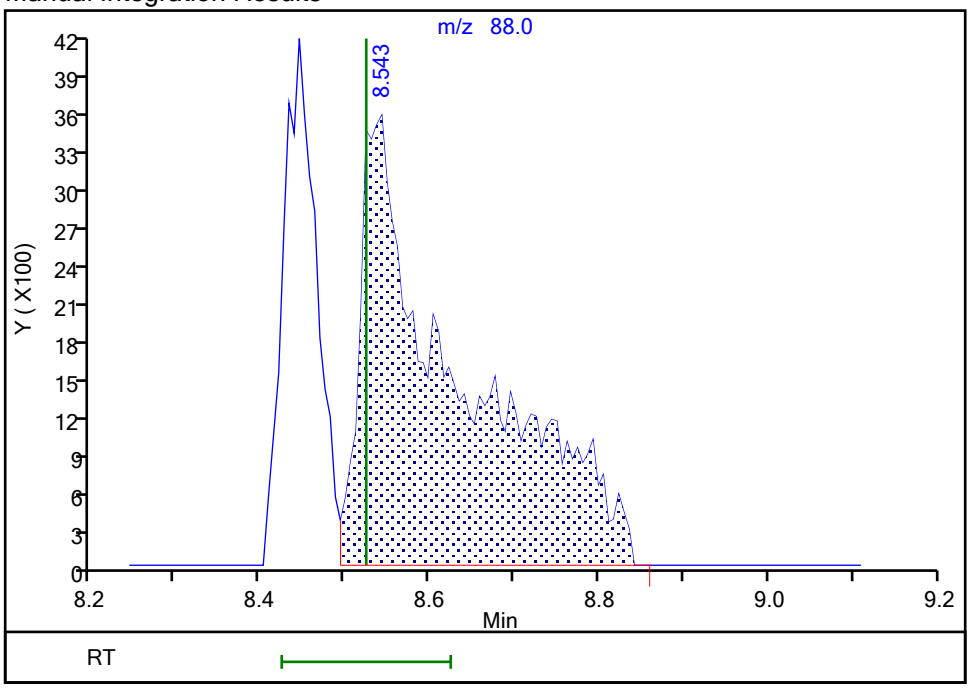
Processing Integration Results

RT: 8.54
Area: 28657
Amount: 98.522105
Amount Units: ug/l



Manual Integration Results

RT: 8.54
Area: 28783
Amount: 105.7123
Amount Units: ug/l



Reviewer: UKEK, 13-Oct-2022 09:34:09
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

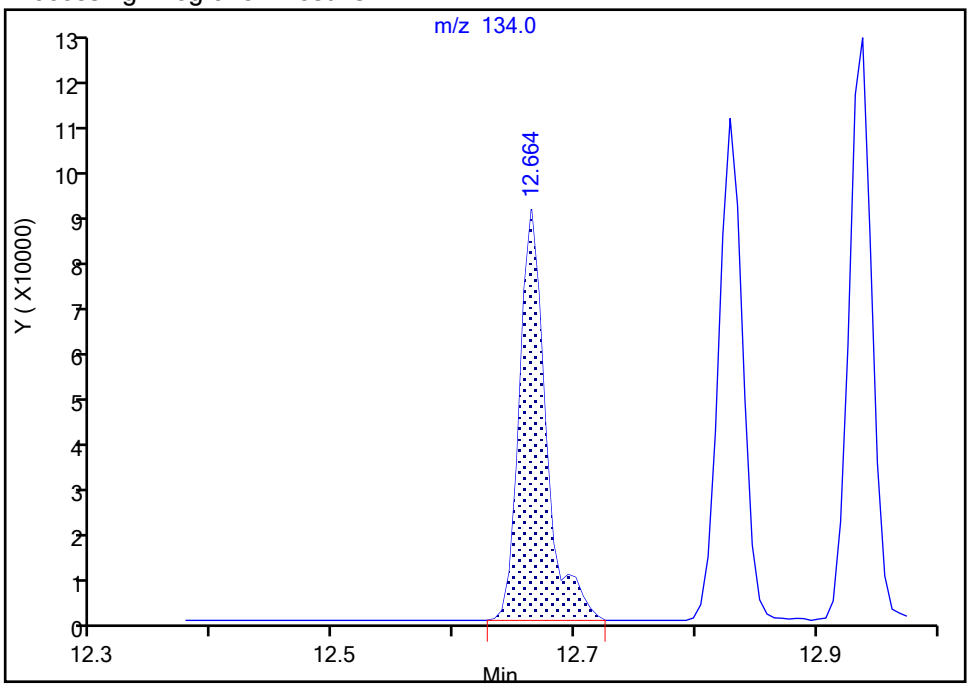
Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X14.D
Injection Date: 11-Oct-2022 19:16:30 Instrument ID: 19930
Lims ID: IC std4
Client ID:
Operator ID: knk41612 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

129 tert-Butylbenzene, CAS: 98-06-6

Signal: 1

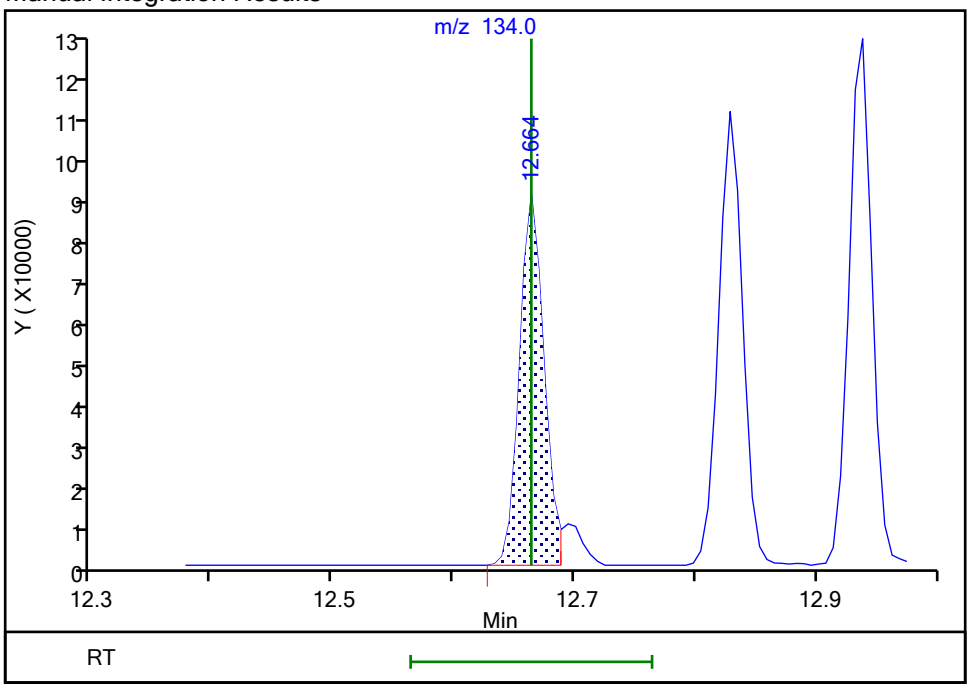
Processing Integration Results

RT: 12.66
Area: 138693
Amount: 1.972988
Amount Units: ug/l



Manual Integration Results

RT: 12.66
Area: 128232
Amount: 1.916613
Amount Units: ug/l



Reviewer: UKEK, 13-Oct-2022 09:42:00
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X15.D
Lims ID: IC std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-Oct-2022 19:38:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0068441-016
Misc. Info.: IC STD3
Operator ID: knk41612 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 13-Oct-2022 11:35:35 Calib Date: 11-Oct-2022 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1621

First Level Reviewer: DVW2 Date: 12-Oct-2022 11:01:06

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Dichlorodifluoromethane	85	1.916	1.916	0.000	99	100008	1.00	1.01	
4	Chloromethane	50	2.117	2.111	0.006	99	101136	1.00	1.03	
5	Vinyl chloride	62	2.227	2.227	0.000	98	94970	1.00	0.9871	
6	Butadiene	39	2.239	2.233	0.006	92	82547	1.00	0.9738	
7	Bromomethane	94	2.562	2.556	0.006	90	70129	1.00	1.03	
8	Chloroethane	64	2.648	2.641	0.007	100	58473	1.00	1.02	
9	Dichlorofluoromethane	67	2.873	2.873	0.000	97	137757	1.00	1.03	
10	Trichlorofluoromethane	101	2.885	2.940	-0.055	97	139688	1.00	1.04	
11	Ethyl ether	59	3.184	3.178	0.006	90	49662	1.00	1.03	
13	1,2-Dichloro-1,1,2-trifluoroetha	67	3.269	3.269	0.000	91	83165	1.00	1.01	
14	Acrolein	56	3.355	3.343	0.013	99	385797	50.0	51.9	
15	1,1-Dichloroethene	96	3.489	3.489	0.000	98	64735	1.00	1.05	
16	Acetone	43	3.519	3.513	0.006	92	89976	10.0	10.6	
17	1,1,2-Trichloro-1,2,2-trifluoroe	101	3.538	3.531	0.007	92	62429	1.00	1.04	
18	Iodomethane	142	3.684	3.678	0.006	99	118224	1.00	1.05	
19	Ethyl bromide	108	3.714	3.702	0.012	99	58824	1.00	1.07	
20	Carbon disulfide	76	3.794	3.781	0.013	99	159085	1.00	1.03	
23	Methyl acetate	43	3.934	3.928	0.006	24	22986	1.00	0.9528	M
24	3-Chloro-1-propene	41	3.964	3.958	0.006	90	92449	1.00	1.04	
25	Methylene Chloride	84	4.147	4.141	0.006	89	67758	1.00	1.04	
* 26	t-Butyl alcohol-d10 (IS)	65	4.153	4.141	0.012	41	129740	50.0	50.0	M
27	2-Methyl-2-propanol	59	4.269	4.275	-0.006	99	58597	20.0	21.2	
28	Acrylonitrile	53	4.501	4.476	0.025	95	28147	2.50	2.61	M
29	Methyl tert-butyl ether	73	4.550	4.550	0.000	95	160964	1.00	1.03	
30	trans-1,2-Dichloroethene	96	4.562	4.556	0.006	98	71252	1.00	1.04	
31	Hexane	57	4.989	4.982	0.007	91	91070	1.00	1.03	
32	1,1-Dichloroethane	63	5.220	5.214	0.006	96	123991	1.00	1.01	
35	Isopropyl ether	45	5.275	5.275	0.000	98	192010	1.00	1.02	
36	2-Chloro-1,3-butadiene	53	5.330	5.324	0.006	91	99725	1.00	1.03	
37	Tert-butyl ethyl ether	59	5.812	5.805	0.007	97	196688	1.00	1.03	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2-Butanone (MEK)	43	6.019	6.001	0.018	99	152798	10.0	9.94	
39 cis-1,2-Dichloroethene	96	6.055	6.043	0.012	81	78233	1.00	1.03	
40 2,2-Dichloropropane	77	6.062	6.055	0.007	85	114063	1.00	1.04	
43 Propionitrile	54	6.104	6.086	0.018	98	87294	20.0	21.5	M
S 41 1,2-Dichloroethene, Total	100				0			2.07	
45 Methacrylonitrile	67	6.318	6.305	0.013	90	165759	10.0	10.0	
46 Chlorobromomethane	128	6.385	6.372	0.013	86	34135	1.00	1.02	
47 Tetrahydrofuran	71	6.385	6.391	-0.006	75	23081	5.00	5.10	
48 Chloroform	83	6.531	6.525	0.006	93	126080	1.00	1.03	
$ 49 Dibromofluoromethane (Surr)	113	6.744	6.738	0.006	94	599058	10.0	9.95	
50 1,1,1-Trichloroethane	97	6.757	6.756	0.001	98	121353	1.00	1.04	
51 Cyclohexane	56	6.854	6.854	0.000	89	110342	1.00	1.02	
53 1,1-Dichloropropene	75	6.964	6.964	0.000	94	99965	1.00	1.02	
54 Carbon tetrachloride	117	6.970	6.970	0.000	89	103270	1.00	1.02	
55 Isobutyl alcohol	41	7.122	7.110	0.012	95	51025	50.0	53.7	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.195	7.189	0.006	99	116912	10.0	9.78	
57 Benzene	78	7.226	7.226	0.000	94	292711	1.00	1.04	
58 1,2-Dichloroethane	62	7.293	7.293	0.000	98	77603	1.00	1.01	
60 Tert-amyl methyl ether	73	7.415	7.415	0.000	99	181727	1.00	1.03	
* 61 Fluorobenzene (IS)	96	7.628	7.628	0.000	99	2385384	10.0	10.0	
62 n-Heptane	43	7.641	7.640	0.000	90	93458	1.00	1.01	
63 n-Butanol	56	8.012	7.988	0.024	88	69824	87.5	86.7	
64 Trichloroethene	95	8.110	8.110	0.000	97	78903	1.00	1.02	
65 Methylcyclohexane	83	8.421	8.415	0.006	91	127627	1.00	1.02	
66 1,2-Dichloropropane	63	8.433	8.433	0.000	93	69942	1.00	1.02	
67 Methyl methacrylate	69	8.531	8.518	0.013	86	30272	1.00	1.01	
68 1,4-Dioxane	88	8.537	8.524	0.013	36	13190	50.0	50.6	
69 Dibromomethane	93	8.549	8.549	0.000	93	34651	1.00	1.01	
71 Dichlorobromomethane	83	8.781	8.780	0.001	99	84864	1.00	1.02	
72 2-Nitropropane	41	9.049	9.043	0.006	97	44862	5.00	4.91	
75 1-Bromo-2-chloroethane	63	9.177	9.177	0.000	98	71170	1.00	1.04	
76 cis-1,3-Dichloropropene	75	9.335	9.329	0.006	96	104274	1.00	1.00	
77 4-Methyl-2-pentanone (MIBK)	43	9.500	9.500	0.000	96	399709	10.0	9.86	
$ 78 Toluene-d8 (Surr)	98	9.640	9.640	0.000	93	2368639	10.0	10.0	
79 Toluene	92	9.719	9.719	0.000	98	192803	1.00	1.04	
97 trans-1,3-Dichloropropene	75	9.982	9.975	0.007	92	83430	1.00	1.00	
99 Ethyl methacrylate	69	10.042	10.036	0.006	88	64731	1.00	0.99	
S 98 1,3-Dichloropropene, Total	100				0			2.00	
100 1,1,2-Trichloroethane	97	10.183	10.183	0.000	90	50879	1.00	1.04	
101 Tetrachloroethene	166	10.274	10.274	0.000	98	93556	1.00	1.04	
102 1,3-Dichloropropane	76	10.347	10.341	0.006	89	84552	1.00	1.03	
103 2-Hexanone	43	10.402	10.390	0.012	96	288315	10.0	10.2	
105 Chlorodibromomethane	129	10.561	10.561	0.000	90	58081	1.00	1.01	
106 Ethylene Dibromide	107	10.670	10.670	0.000	98	48677	1.00	1.03	
* 107 Chlorobenzene-d5 (IS)	117	11.103	11.103	0.000	85	1786805	10.0	10.0	
108 1-Chlorohexane	91	11.109	11.109	0.000	94	108142	1.00	1.02	
109 Chlorobenzene	112	11.128	11.128	0.000	97	214691	1.00	1.04	
112 Ethylbenzene	91	11.213	11.213	0.000	98	368171	1.00	1.04	
111 1,1,1,2-Tetrachloroethane	131	11.213	11.213	0.000	96	72967	1.00	1.02	
S 110 Xylenes, Total	106				0			3.12	
113 m-Xylene & p-Xylene	106	11.329	11.329	0.000	100	296136	2.00	2.09	
114 o-Xylene	106	11.658	11.658	0.000	96	141966	1.00	1.03	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Styrene	104	11.676	11.676	0.000	95	222395	1.00	1.02	
116 Bromoform	173	11.835	11.835	0.000	97	28638	1.00	0.9053	
117 Isopropylbenzene	105	11.957	11.957	0.000	95	376923	1.00	1.04	
$ 120 4-Bromofluorobenzene (Surr)	95	12.103	12.103	0.000	93	870545	10.0	9.96	
121 1,1,2,2-Tetrachloroethane	83	12.201	12.201	0.000	94	62085	1.00	1.03	
122 Bromobenzene	156	12.219	12.219	0.000	96	87683	1.00	1.02	
123 trans-1,4-Dichloro-2-butene	53	12.231	12.225	0.006	94	147944	10.0	9.78	
124 1,2,3-Trichloropropane	110	12.249	12.249	0.000	79	17360	1.00	1.03	
125 N-Propylbenzene	91	12.286	12.286	0.000	99	419977	1.00	1.03	
126 2-Chlorotoluene	126	12.365	12.365	0.000	97	89068	1.00	1.03	
127 1,3,5-Trimethylbenzene	105	12.426	12.420	0.006	94	308820	1.00	1.02	
128 4-Chlorotoluene	126	12.457	12.457	0.000	98	91544	1.00	1.04	
129 tert-Butylbenzene	134	12.664	12.664	0.000	93	69180	1.00	1.02	M
130 Pentachloroethane	167	12.701	12.700	0.000	78	55209	1.00	1.02	
131 1,2,4-Trimethylbenzene	105	12.707	12.707	0.000	97	315012	1.00	1.04	
132 sec-Butylbenzene	105	12.829	12.828	0.001	94	394594	1.00	1.03	
133 1,3-Dichlorobenzene	146	12.932	12.926	0.006	98	170194	1.00	1.02	
134 4-Isopropyltoluene	119	12.938	12.938	0.000	97	344034	1.00	1.03	
* 135 1,4-Dichlorobenzene-d4	152	12.987	12.981	0.006	94	1039504	10.0	10.0	
136 1,4-Dichlorobenzene	146	13.005	12.999	0.006	95	179958	1.00	1.03	
137 1,2,3-Trimethylbenzene	120	13.011	13.011	0.000	98	138480	1.00	1.03	
138 Benzyl chloride	126	13.085	13.078	0.007	98	23737	1.00	0.9895	
139 n-Butylbenzene	92	13.231	13.225	0.006	97	157650	1.00	1.03	
140 1,2-Dichlorobenzene	146	13.261	13.261	0.000	98	161467	1.00	1.04	
142 1,2-Dibromo-3-Chloropropane	155	13.804	13.804	0.000	87	8511	1.00	1.01	
143 1,3,5-Trichlorobenzene	180	13.932	13.932	0.000	98	122028	1.00	1.02	
144 1,2,4-Trichlorobenzene	180	14.353	14.353	0.000	94	104900	1.00	1.02	
145 Hexachlorobutadiene	225	14.432	14.432	0.000	97	45100	1.00	0.9858	
146 Naphthalene	128	14.536	14.529	0.007	97	192998	1.00	1.01	
147 1,2,3-Trichlorobenzene	180	14.676	14.676	0.000	95	89200	1.00	1.01	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	
165 Isopropyl alcohol	45		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

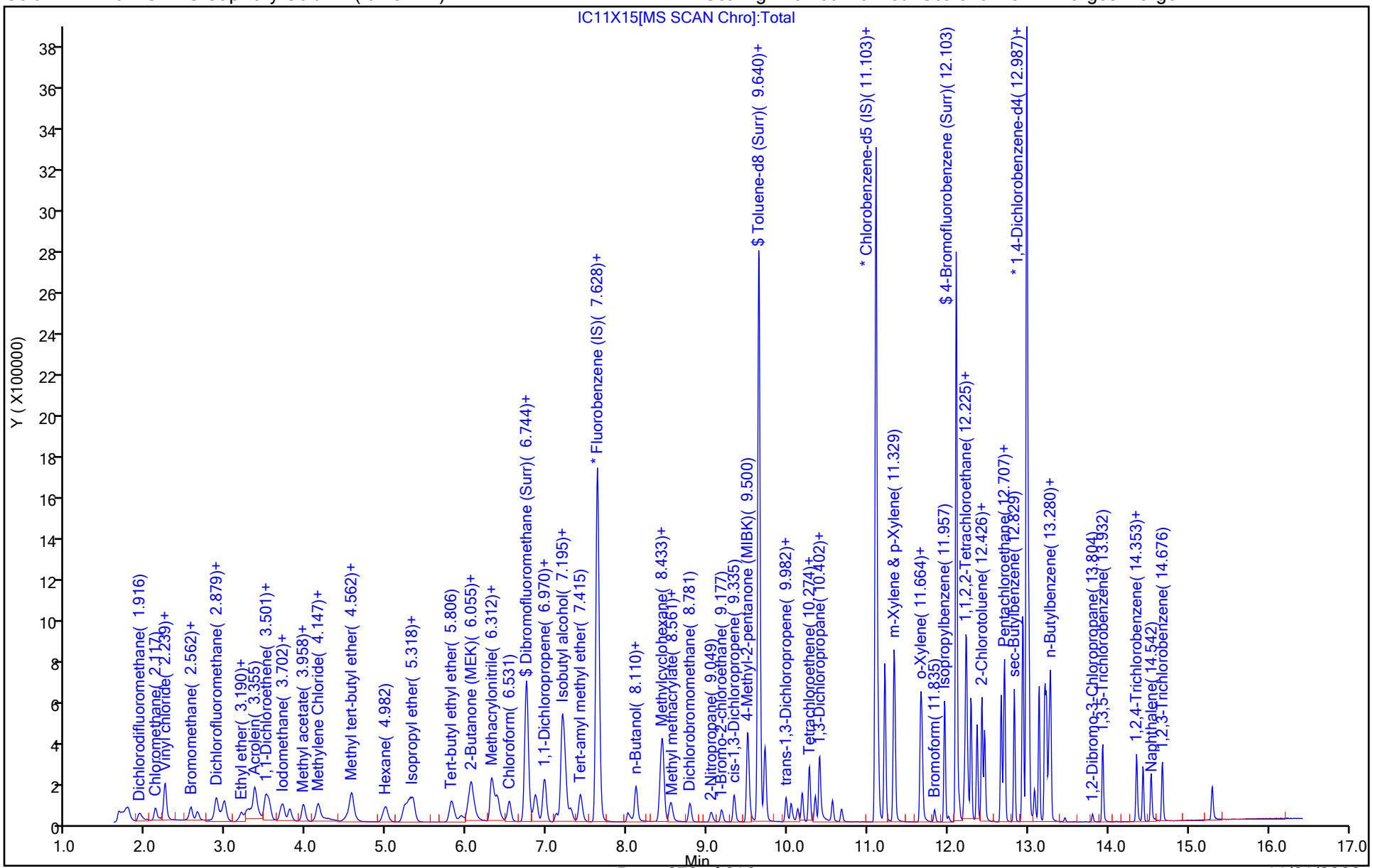
MSV_LL_#1_826_00056	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00060	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00116	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 13-Oct-2022 11:35:36 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X15.D				
Injection Date:	11-Oct-2022 19:38:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	IC std3			Worklist Smp#:	16
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



11/21/2022
12:36 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

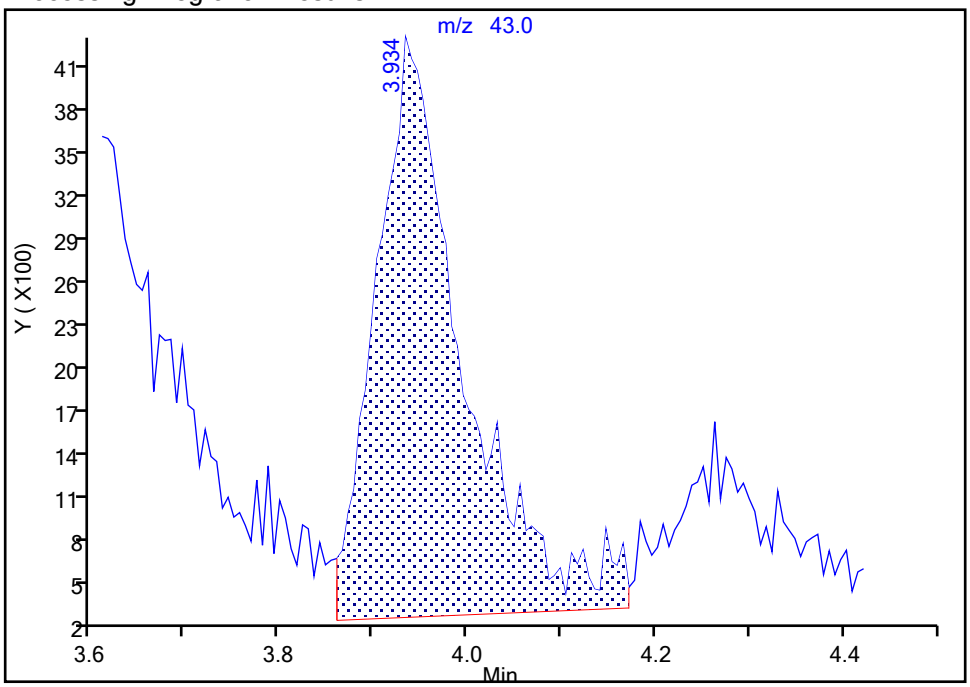
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X15.D				
Injection Date:	11-Oct-2022 19:38:30	Instrument ID:	19930		
Lims ID:	IC std3				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

23 Methyl acetate, CAS: 79-20-9

Signal: 1

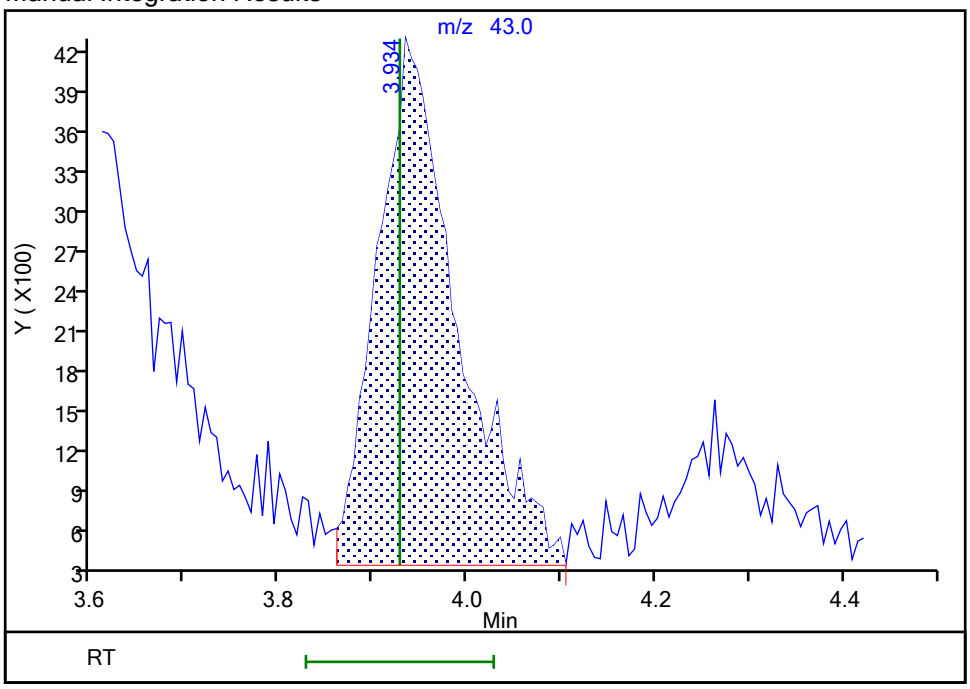
Processing Integration Results

RT: 3.93
Area: 26082
Amount: 1.200516
Amount Units: ug/l



Manual Integration Results

RT: 3.93
Area: 22986
Amount: 0.952832
Amount Units: ug/l



Reviewer: DVW2, 12-Oct-2022 10:59:52
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

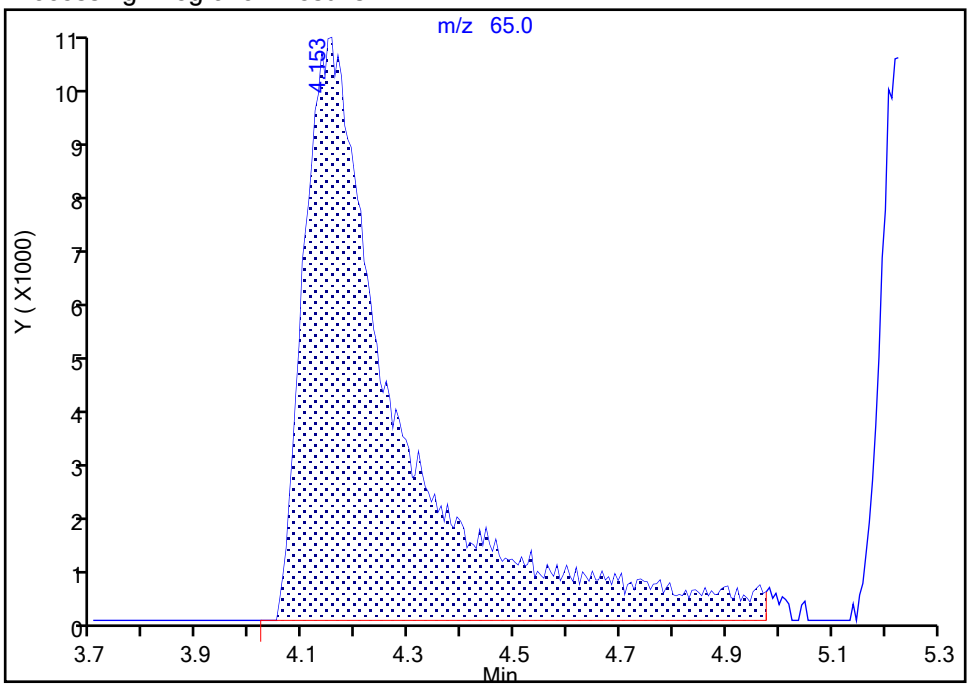
Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X15.D
Injection Date: 11-Oct-2022 19:38:30 Instrument ID: 19930
Lims ID: IC std3
Client ID:
Operator ID: knk41612 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

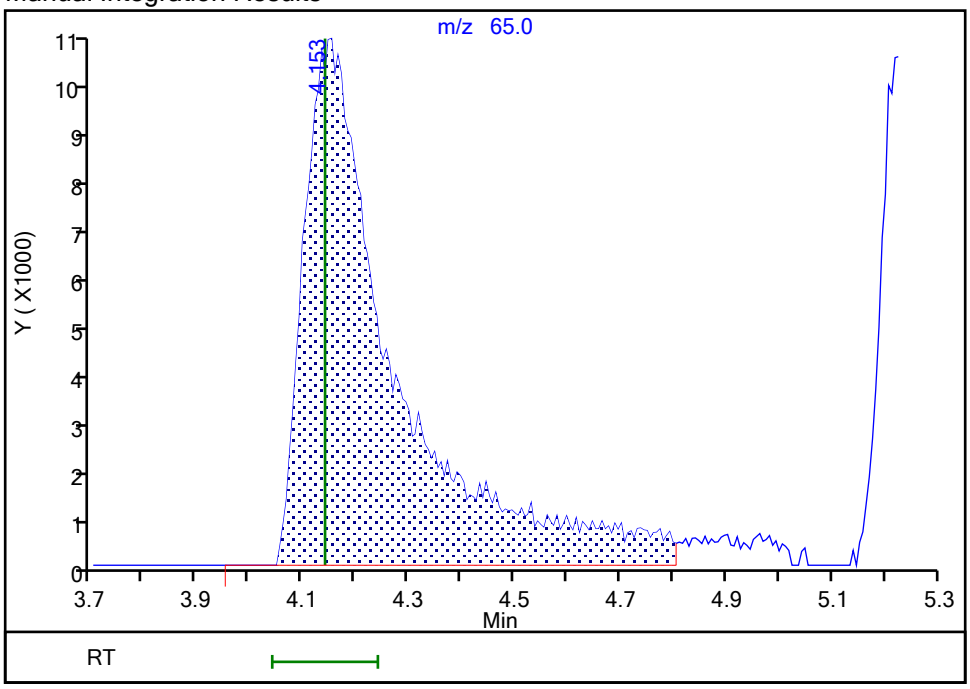
Processing Integration Results

RT: 4.15
Area: 134850
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.15
Area: 129740
Amount: 50.000000
Amount Units: ug/l



Reviewer: UKEK, 13-Oct-2022 09:17:51
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

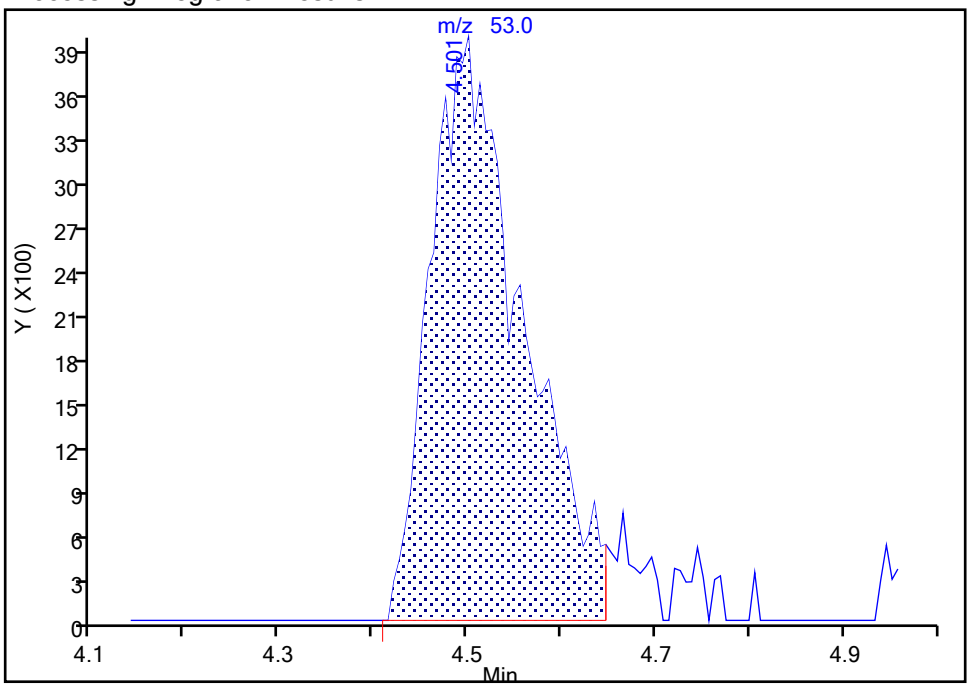
Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X15.D
Injection Date: 11-Oct-2022 19:38:30 Instrument ID: 19930
Lims ID: IC std3
Client ID:
Operator ID: knk41612 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

28 Acrylonitrile, CAS: 107-13-1

Signal: 1

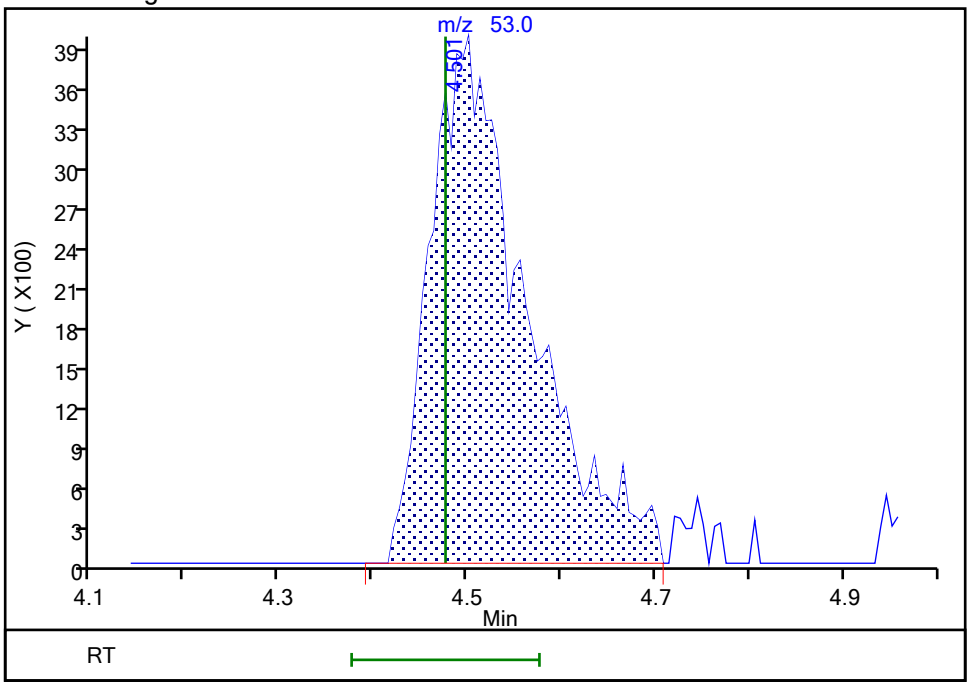
Processing Integration Results

RT: 4.50
Area: 26801
Amount: 2.506101
Amount Units: ug/l



Manual Integration Results

RT: 4.50
Area: 28147
Amount: 2.607851
Amount Units: ug/l



Reviewer: DVW2, 12-Oct-2022 11:00:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

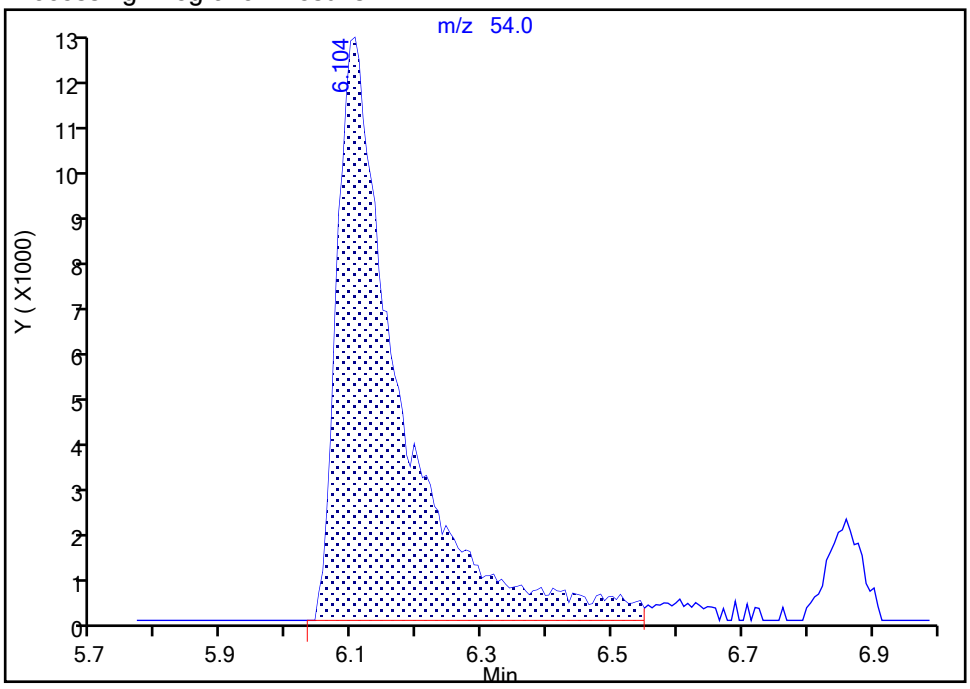
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X15.D				
Injection Date:	11-Oct-2022 19:38:30	Instrument ID:	19930		
Lims ID:	IC std3				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

43 Propionitrile, CAS: 107-12-0

Signal: 1

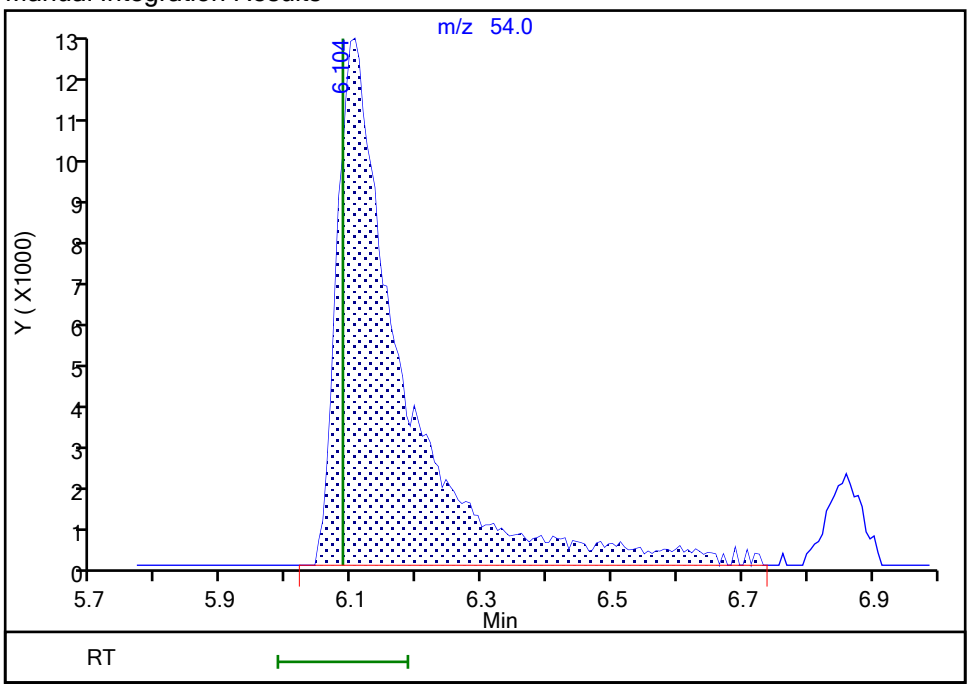
Processing Integration Results

RT: 6.10
Area: 84558
Amount: 20.995173
Amount Units: ug/l



Manual Integration Results

RT: 6.10
Area: 87294
Amount: 21.528045
Amount Units: ug/l



Reviewer: DVW2, 12-Oct-2022 11:00:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

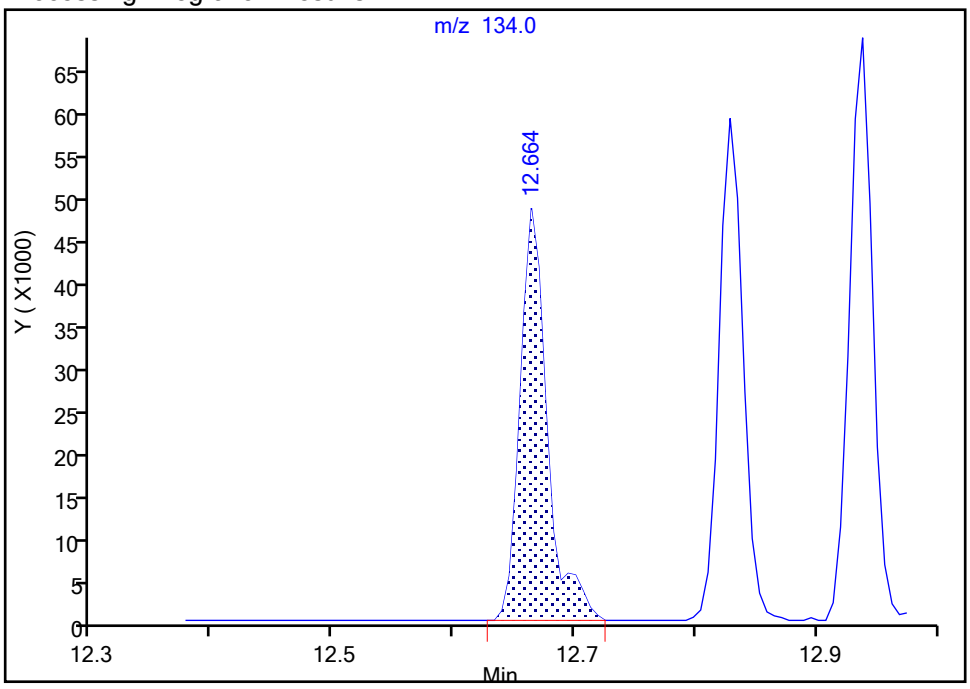
Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X15.D
Injection Date: 11-Oct-2022 19:38:30 Instrument ID: 19930
Lims ID: IC std3
Client ID:
Operator ID: knk41612 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

129 tert-Butylbenzene, CAS: 98-06-6

Signal: 1

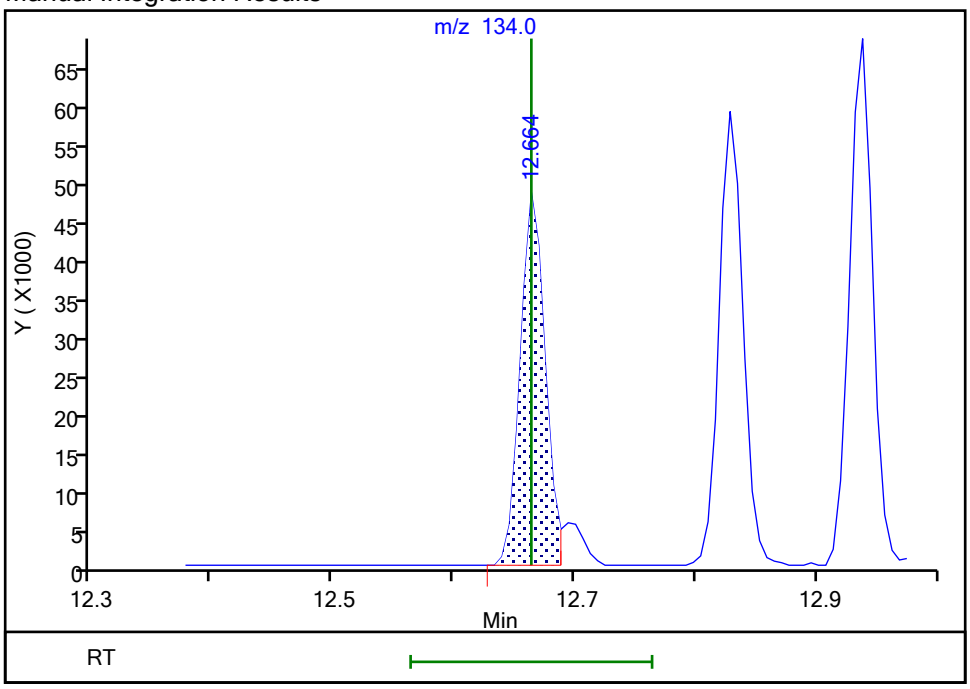
Processing Integration Results

RT: 12.66
Area: 75180
Amount: 1.046877
Amount Units: ug/l



Manual Integration Results

RT: 12.66
Area: 69180
Amount: 1.024369
Amount Units: ug/l



Reviewer: UKEK, 13-Oct-2022 09:41:39
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X16.D
Lims ID: IC std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-Oct-2022 19:59:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0068441-017
Misc. Info.: IC STD2
Operator ID: knk41612 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 13-Oct-2022 11:35:41 Calib Date: 11-Oct-2022 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1621

First Level Reviewer: DVW2 Date: 12-Oct-2022 11:02:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.922	1.916	0.006	99	43653	0.5000	0.4384	
4 Chloromethane	50	2.123	2.111	0.012	99	49658	0.5000	0.5026	
5 Vinyl chloride	62	2.233	2.227	0.006	97	46876	0.5000	0.4841	
6 Butadiene	39	2.251	2.233	0.018	91	41551	0.5000	0.4871	
7 Bromomethane	94	2.562	2.556	0.006	92	33869	0.5000	0.4964	
8 Chloroethane	64	2.654	2.641	0.013	99	29359	0.5000	0.5085	
9 Dichlorofluoromethane	67	2.879	2.873	0.006	97	67245	0.5000	0.4977	
10 Trichlorofluoromethane	101	2.952	2.940	0.012	90	63061	0.5000	0.4651	
11 Ethyl ether	59	3.190	3.178	0.012	90	25166	0.5001	0.5190	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.269	3.269	0.000	89	40128	0.5000	0.4858	
14 Acrolein	56	3.361	3.343	0.019	98	184358	25.0	25.2	
15 1,1-Dichloroethene	96	3.495	3.489	0.006	98	31463	0.5000	0.5057	
16 Acetone	43	3.526	3.513	0.013	93	44402	5.00	5.32	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.550	3.531	0.019	89	29413	0.5000	0.4852	
18 Iodomethane	142	3.690	3.678	0.012	99	57297	0.5000	0.5038	
19 Ethyl bromide	108	3.727	3.702	0.025	98	29959	0.4999	0.5412	
20 Carbon disulfide	76	3.800	3.781	0.019	99	76962	0.5000	0.4972	
23 Methyl acetate	43	3.958	3.928	0.030	24	14285	0.5000	0.6018	
24 3-Chloro-1-propene	41	3.971	3.958	0.013	89	44193	0.5000	0.4952	
25 Methylene Chloride	84	4.153	4.141	0.012	88	33261	0.5000	0.5075	
* 26 t-Butyl alcohol-d10 (IS)	65	4.166	4.141	0.025	71	127650	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.288	4.275	0.013	97	29497	10.0	10.9	
28 Acrylonitrile	53	4.507	4.476	0.031	91	12991	1.25	1.22	
29 Methyl tert-butyl ether	73	4.556	4.550	0.006	94	78492	0.5000	0.5005	
30 trans-1,2-Dichloroethene	96	4.568	4.556	0.012	99	34333	0.5000	0.4981	
31 Hexane	57	4.995	4.982	0.013	92	42682	0.5000	0.4801	
32 1,1-Dichloroethane	63	5.226	5.214	0.012	96	62421	0.5000	0.5075	
35 Isopropyl ether	45	5.287	5.275	0.012	93	94585	0.5000	0.5012	
36 2-Chloro-1,3-butadiene	53	5.336	5.324	0.012	91	47371	0.5000	0.4861	
37 Tert-butyl ethyl ether	59	5.812	5.805	0.007	97	96906	0.5000	0.5029	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2-Butanone (MEK)	43	6.025	6.001	0.024	98	74413	5.00	4.92	
39 cis-1,2-Dichloroethene	96	6.062	6.043	0.019	81	38634	0.5000	0.5075	
40 2,2-Dichloropropane	77	6.080	6.055	0.025	88	53941	0.5000	0.4883	
43 Propionitrile	54	6.116	6.086	0.030	97	38506	10.0	9.65	
S 41 1,2-Dichloroethene, Total	100				0			1.01	
45 Methacrylonitrile	67	6.330	6.305	0.025	91	81625	5.00	5.01	
46 Chlorobromomethane	128	6.379	6.372	0.007	91	17417	0.5000	0.5166	
47 Tetrahydrofuran	71	6.397	6.391	0.006	77	11045	2.50	2.48	
48 Chloroform	83	6.537	6.525	0.012	93	62280	0.5000	0.5043	
$ 49 Dibromofluoromethane (Surr)	113	6.744	6.738	0.006	94	606969	10.0	10.0	
50 1,1,1-Trichloroethane	97	6.757	6.756	0.001	98	59561	0.5000	0.5080	
51 Cyclohexane	56	6.860	6.854	0.006	88	52929	0.5000	0.4878	
53 1,1-Dichloropropene	75	6.970	6.964	0.006	95	49176	0.5000	0.5008	
54 Carbon tetrachloride	117	6.976	6.970	0.006	89	49572	0.5000	0.4857	
55 Isobutyl alcohol	41	7.116	7.110	0.006	93	25689	25.0	27.5	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.196	7.189	0.007	99	121053	10.0	10.1	
57 Benzene	78	7.232	7.226	0.006	95	144562	0.5000	0.5083	
58 1,2-Dichloroethane	62	7.293	7.293	0.000	96	40331	0.5000	0.5232	
60 Tert-amyl methyl ether	73	7.421	7.415	0.006	99	87743	0.5000	0.4940	
* 61 Fluorobenzene (IS)	96	7.628	7.628	0.000	99	2400580	10.0	10.0	
62 n-Heptane	43	7.641	7.640	0.001	37	46992	0.5000	0.5070	
63 n-Butanol	56	8.025	7.988	0.037	84	33183	43.8	41.9	
64 Trichloroethene	95	8.116	8.110	0.006	97	38299	0.5000	0.4906	
65 Methylcyclohexane	83	8.421	8.415	0.006	91	61420	0.5000	0.4866	
66 1,2-Dichloropropane	63	8.439	8.433	0.006	93	33696	0.5000	0.4894	
67 Methyl methacrylate	69	8.537	8.518	0.019	91	12995	0.5000	0.4400	
68 1,4-Dioxane	88	8.537	8.524	0.013	36	4571	25.0	17.8	
69 Dibromomethane	93	8.549	8.549	0.000	95	17187	0.5000	0.4994	
71 Dichlorobromomethane	83	8.787	8.780	0.007	99	39777	0.5000	0.4728	
72 2-Nitropropane	41	9.049	9.043	0.006	99	21623	2.50	2.41	
75 1-Bromo-2-chloroethane	63	9.177	9.177	0.000	98	34349	0.5000	0.4984	
76 cis-1,3-Dichloropropene	75	9.335	9.329	0.006	96	49512	0.5000	0.4722	
77 4-Methyl-2-pentanone (MIBK)	43	9.506	9.500	0.006	95	192071	5.00	4.81	
$ 78 Toluene-d8 (Surr)	98	9.640	9.640	0.000	93	2402640	10.0	10.2	
79 Toluene	92	9.719	9.719	0.000	98	94625	0.5000	0.5099	
97 trans-1,3-Dichloropropene	75	9.988	9.975	0.013	92	38630	0.5000	0.4634	
99 Ethyl methacrylate	69	10.049	10.036	0.013	88	30737	0.5000	0.4721	
S 98 1,3-Dichloropropene, Total	100				0			0.9356	
100 1,1,2-Trichloroethane	97	10.183	10.183	0.000	91	25306	0.5000	0.5169	
101 Tetrachloroethene	166	10.274	10.274	0.000	97	46594	0.5000	0.5162	
102 1,3-Dichloropropane	76	10.347	10.341	0.006	89	41841	0.5000	0.5100	
103 2-Hexanone	43	10.402	10.390	0.012	96	133008	5.00	4.76	
105 Chlorodibromomethane	129	10.561	10.561	0.000	90	25835	0.5000	0.4487	
106 Ethylene Dibromide	107	10.677	10.670	0.007	98	23155	0.5000	0.4888	
* 107 Chlorobenzene-d5 (IS)	117	11.103	11.103	0.000	85	1786094	10.0	10.0	
108 1-Chlorohexane	91	11.116	11.109	0.007	94	53724	0.5000	0.5052	
109 Chlorobenzene	112	11.128	11.128	0.000	96	105752	0.5000	0.5113	
112 Ethylbenzene	91	11.219	11.213	0.006	98	181630	0.5000	0.5110	
111 1,1,1,2-Tetrachloroethane	131	11.213	11.213	0.000	94	34552	0.5000	0.4817	
S 110 Xylenes, Total	106				0			1.51	
113 m-Xylene & p-Xylene	106	11.335	11.329	0.006	100	142159	1.00	1.01	
114 o-Xylene	106	11.658	11.658	0.000	97	69451	0.5000	0.5030	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Styrene	104	11.676	11.676	0.000	94	105428	0.5000	0.4839	
116 Bromoform	173	11.835	11.835	0.000	96	11991	0.5000	0.3792	
117 Isopropylbenzene	105	11.963	11.957	0.006	96	180414	0.5000	0.5001	
$ 120 4-Bromofluorobenzene (Surr)	95	12.103	12.103	0.000	93	889298	10.0	10.2	
121 1,1,2,2-Tetrachloroethane	83	12.207	12.201	0.006	95	30010	0.5000	0.4875	
122 Bromobenzene	156	12.225	12.219	0.006	95	42111	0.5000	0.4826	
123 trans-1,4-Dichloro-2-butene	53	12.231	12.225	0.006	92	69586	5.00	4.67	
124 1,2,3-Trichloropropane	110	12.249	12.249	0.000	78	8712	0.5000	0.5052	
125 N-Propylbenzene	91	12.286	12.286	0.000	99	203024	0.5000	0.4867	
126 2-Chlorotoluene	126	12.365	12.365	0.000	97	44193	0.5000	0.5035	
127 1,3,5-Trimethylbenzene	105	12.426	12.420	0.006	95	152293	0.5000	0.4940	
128 4-Chlorotoluene	126	12.463	12.457	0.006	97	44389	0.5000	0.4966	
129 tert-Butylbenzene	134	12.664	12.664	0.000	92	33119	0.5000	0.4809	M
130 Pentachloroethane	167	12.701	12.700	0.001	78	26713	0.5000	0.4816	
131 1,2,4-Trimethylbenzene	105	12.707	12.707	0.000	97	152314	0.5000	0.4910	
132 sec-Butylbenzene	105	12.829	12.828	0.001	94	192485	0.5000	0.4943	
133 1,3-Dichlorobenzene	146	12.932	12.926	0.006	98	82215	0.5000	0.4824	
134 4-Isopropyltoluene	119	12.938	12.938	0.000	97	166578	0.5000	0.4903	
* 135 1,4-Dichlorobenzene-d4	152	12.987	12.981	0.006	94	1060130	10.0	10.0	
136 1,4-Dichlorobenzene	146	13.005	12.999	0.006	95	89195	0.5000	0.5012	
137 1,2,3-Trimethylbenzene	120	13.011	13.011	0.000	97	67555	0.5000	0.4938	
138 Benzyl chloride	126	13.079	13.078	0.001	98	10599	0.5000	0.4332	
139 n-Butylbenzene	92	13.231	13.225	0.006	97	74571	0.5000	0.4759	
140 1,2-Dichlorobenzene	146	13.261	13.261	0.000	98	79424	0.5000	0.5003	
142 1,2-Dibromo-3-Chloropropane	155	13.804	13.804	0.000	87	3685	0.5000	0.4296	
143 1,3,5-Trichlorobenzene	180	13.932	13.932	0.000	97	58974	0.5000	0.4836	
144 1,2,4-Trichlorobenzene	180	14.353	14.353	0.000	94	49170	0.5000	0.4684	
145 Hexachlorobutadiene	225	14.432	14.432	0.000	96	24825	0.5000	0.5321	
146 Naphthalene	128	14.536	14.529	0.007	97	92556	0.5000	0.4761	
147 1,2,3-Trichlorobenzene	180	14.676	14.676	0.000	95	42478	0.5000	0.4694	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
165 Isopropyl alcohol	45		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00056	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00060	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00116	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 13-Oct-2022 11:35:42 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X16.D

Injection Date: 11-Oct-2022 19:59:30 Instrument ID: 19930 Operator ID: knk41612

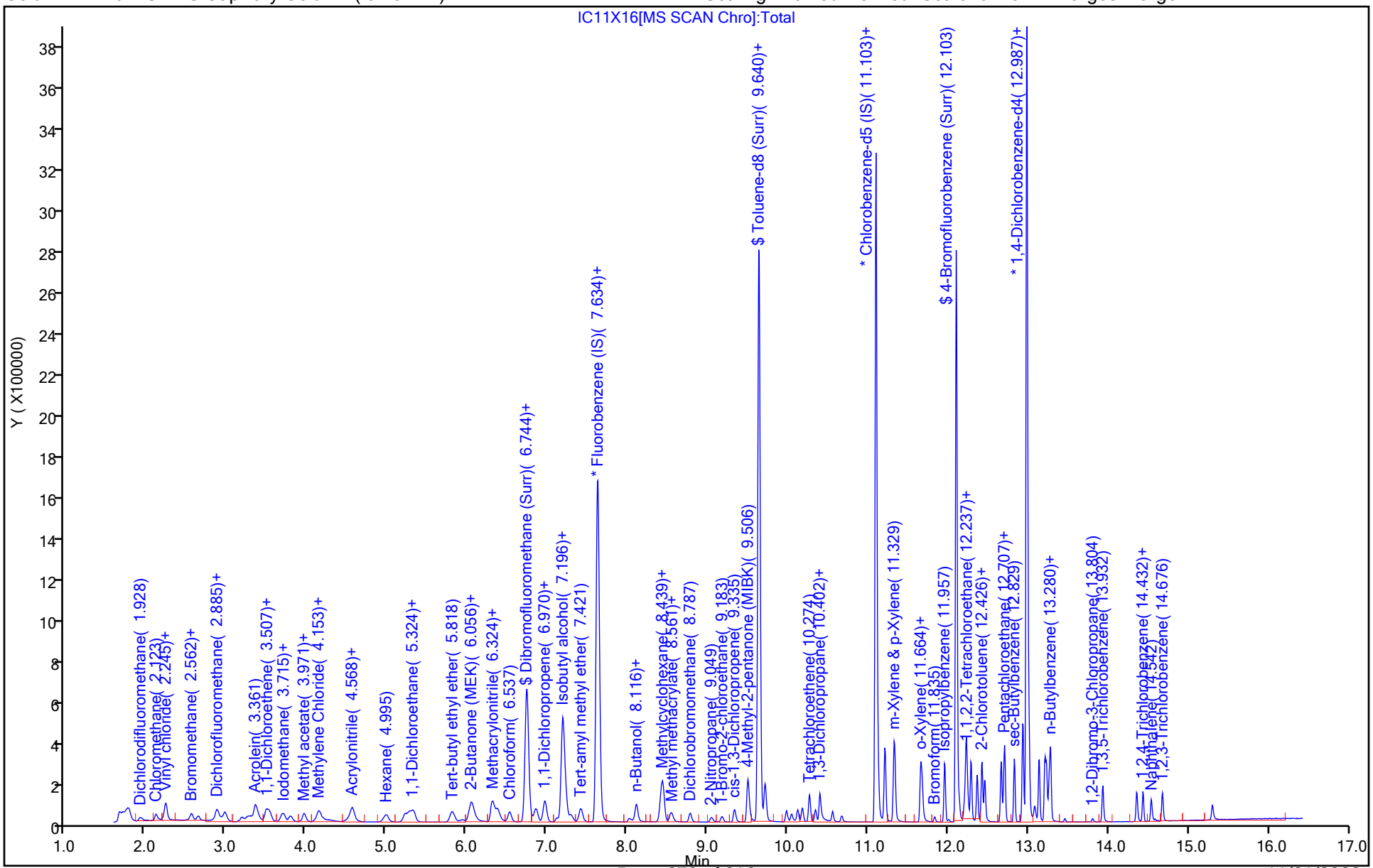
Lims ID: IC std2 Worklist Smp#: 17

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 16

Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

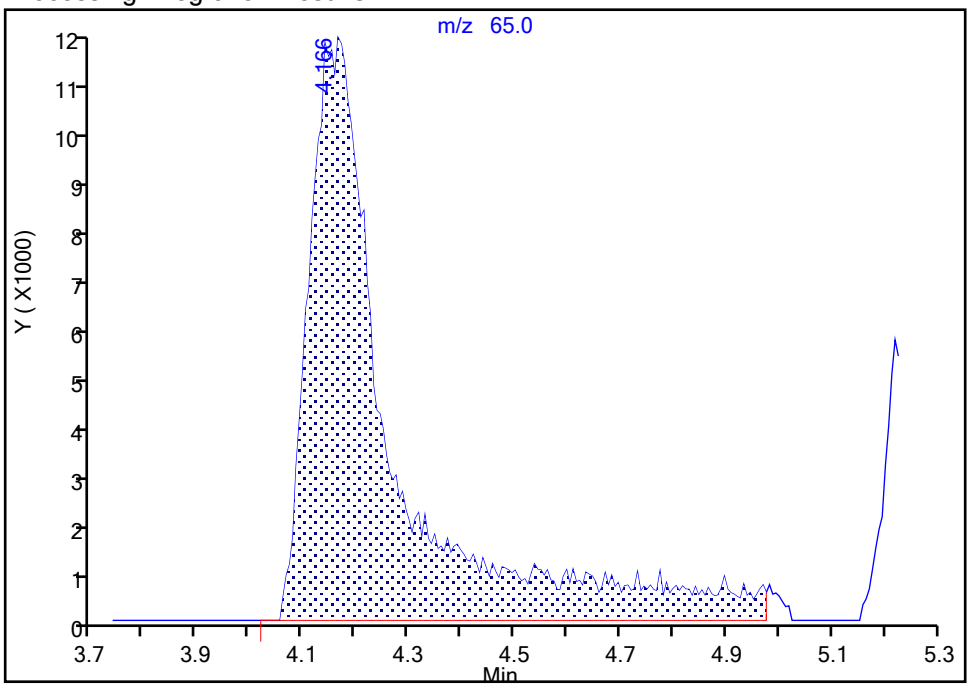
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X16.D				
Injection Date:	11-Oct-2022 19:59:30	Instrument ID:	19930		
Lims ID:	IC std2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

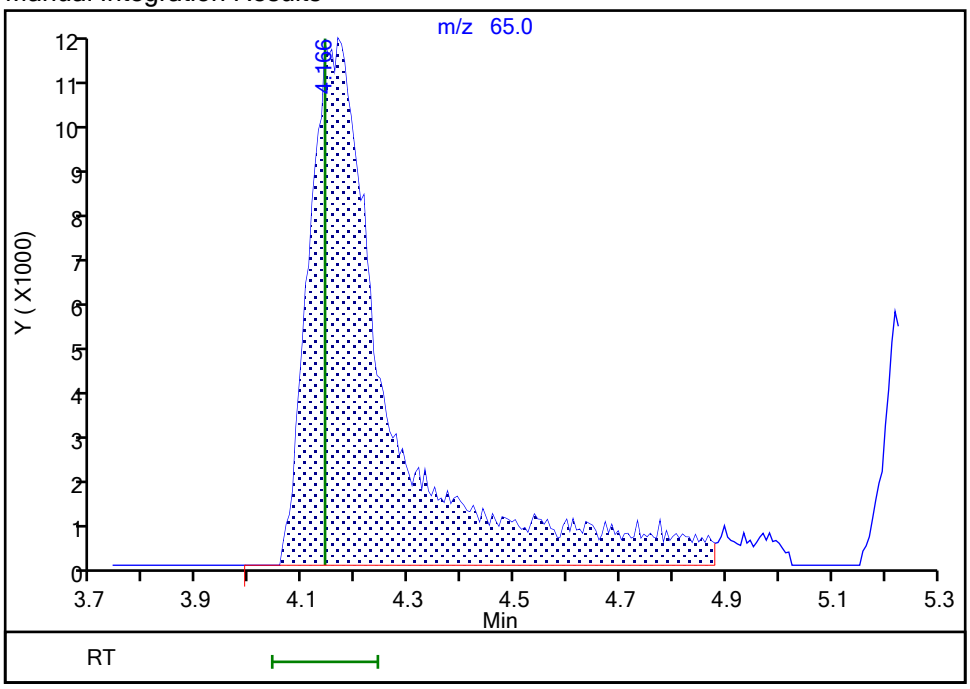
Processing Integration Results

RT: 4.17
Area: 131097
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.17
Area: 127650
Amount: 50.000000
Amount Units: ug/l



Reviewer: UKEK, 13-Oct-2022 09:19:01
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

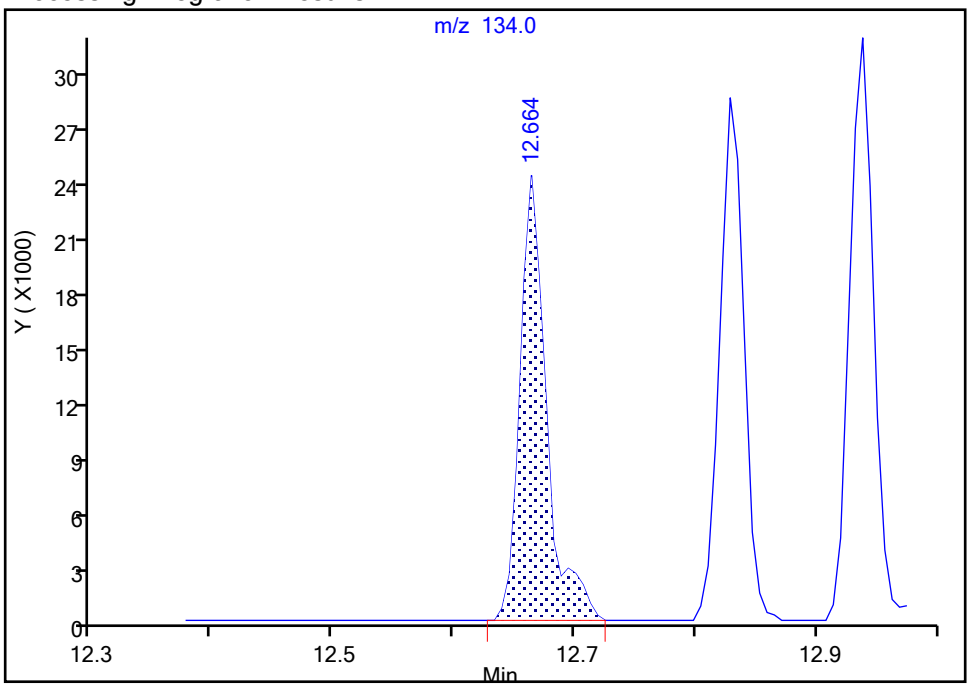
Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X16.D
Injection Date: 11-Oct-2022 19:59:30 Instrument ID: 19930
Lims ID: IC std2
Client ID:
Operator ID: knk41612 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

129 tert-Butylbenzene, CAS: 98-06-6

Signal: 1

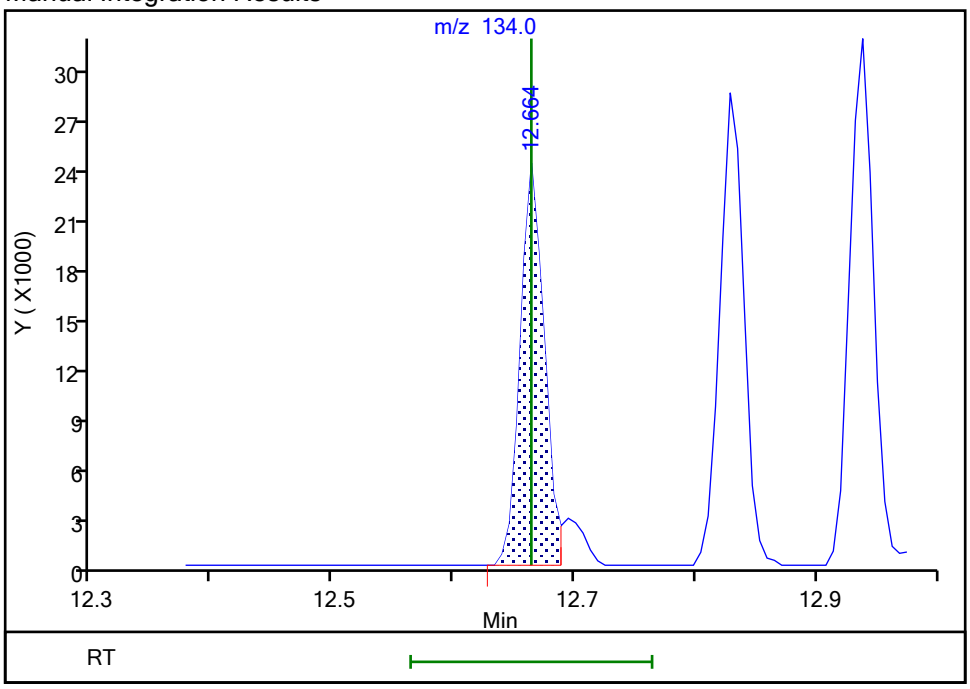
Processing Integration Results

RT: 12.66
Area: 36180
Amount: 0.488173
Amount Units: ug/l



Manual Integration Results

RT: 12.66
Area: 33119
Amount: 0.480862
Amount Units: ug/l



Reviewer: UKEK, 13-Oct-2022 09:41:18
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D
Lims ID: IC std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-Oct-2022 20:20:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0068441-018
Misc. Info.: IC STD1
Operator ID: knk41612 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 13-Oct-2022 11:35:47 Calib Date: 11-Oct-2022 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1621

First Level Reviewer: DVW2 Date: 12-Oct-2022 11:04:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.916	1.916	0.000	98	17758	0.2000	0.1816	
4 Chloromethane	50	2.117	2.111	0.006	99	20794	0.2000	0.2142	
5 Vinyl chloride	62	2.227	2.227	0.000	97	19303	0.2000	0.2030	
6 Butadiene	39	2.239	2.233	0.006	92	20685	0.2000	0.2469	M
7 Bromomethane	94	2.562	2.556	0.006	91	13908	0.2000	0.2075	
8 Chloroethane	64	2.642	2.641	0.001	98	11540	0.2000	0.2035	
9 Dichlorofluoromethane	67	2.879	2.873	0.006	97	27116	0.2000	0.2043	
10 Trichlorofluoromethane	101	2.952	2.940	0.012	91	25232	0.2000	0.1894	
11 Ethyl ether	59	3.190	3.178	0.012	88	9371	0.2001	0.1968	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.282	3.269	0.013	88	16008	0.2000	0.1973	
14 Acrolein	56	3.361	3.343	0.019	100	71194	10.0	9.73	
15 1,1-Dichloroethene	96	3.495	3.489	0.006	96	13331	0.2000	0.2182	
16 Acetone	43	3.525	3.513	0.012	80	21226	2.00	2.54	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.532	3.531	0.001	78	12034	0.2000	0.2021	
18 Iodomethane	142	3.678	3.678	0.000	99	23403	0.2000	0.2095	
19 Ethyl bromide	108	3.708	3.702	0.006	97	10731	0.2000	0.2001	
20 Carbon disulfide	76	3.788	3.781	0.007	99	34204	0.2000	0.2249	
23 Methyl acetate	43	3.971	3.928	0.043	23	6168	0.2000	0.2598	M
24 3-Chloro-1-propene	41	3.964	3.958	0.006	88	18515	0.2000	0.2112	
25 Methylene Chloride	84	4.160	4.141	0.019	69	13524	0.2000	0.2101	
* 26 t-Butyl alcohol-d10 (IS)	65	4.153	4.141	0.012	98	127685	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.288	4.275	0.013	32	10397	4.00	3.83	
28 Acrylonitrile	53	4.501	4.476	0.025	25	4349	0.5000	0.4094	
29 Methyl tert-butyl ether	73	4.537	4.550	-0.013	94	31600	0.2000	0.2051	
30 trans-1,2-Dichloroethene	96	4.562	4.556	0.006	98	14540	0.2000	0.2147	
31 Hexane	57	4.976	4.982	-0.006	91	18578	0.2000	0.2127	
32 1,1-Dichloroethane	63	5.226	5.214	0.012	95	25018	0.2000	0.2071	
35 Isopropyl ether	45	5.281	5.275	0.006	92	38022	0.2000	0.2051	
36 2-Chloro-1,3-butadiene	53	5.336	5.324	0.012	91	19538	0.2000	0.2041	
37 Tert-butyl ethyl ether	59	5.806	5.805	0.001	97	41376	0.2000	0.2186	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2-Butanone (MEK)	43	6.031	6.001	0.030	97	30874	2.00	2.04	
39 cis-1,2-Dichloroethene	96	6.055	6.043	0.012	81	15733	0.2000	0.2104	
40 2,2-Dichloropropane	77	6.068	6.055	0.013	73	23924	0.2000	0.2205	
43 Propionitrile	54	6.123	6.086	0.037	97	13116	4.00	3.29	
S 41 1,2-Dichloroethene, Total	100				0			0.4252	
45 Methacrylonitrile	67	6.318	6.305	0.013	90	31069	2.00	1.91	
46 Chlorobromomethane	128	6.385	6.372	0.013	86	6738	0.2000	0.2035	
47 Tetrahydrofuran	71	6.391	6.391	0.000	72	3937	1.00	0.8840	
48 Chloroform	83	6.537	6.525	0.012	92	25093	0.2000	0.2069	
$ 49 Dibromofluoromethane (Surr)	113	6.744	6.738	0.006	94	593289	10.0	9.97	
50 1,1,1-Trichloroethane	97	6.757	6.756	0.001	73	23345	0.2000	0.2027	
51 Cyclohexane	56	6.854	6.854	0.000	89	22441	0.2000	0.2105	
53 1,1-Dichloropropene	75	6.964	6.964	0.000	92	19986	0.2000	0.2072	
54 Carbon tetrachloride	117	6.976	6.970	0.006	93	20530	0.2000	0.2048	
55 Isobutyl alcohol	41	7.122	7.110	0.012	94	9902	10.0	10.6	M
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.195	7.189	0.006	99	119355	10.0	10.1	
57 Benzene	78	7.226	7.226	0.000	92	58133	0.2000	0.2081	
58 1,2-Dichloroethane	62	7.299	7.293	0.006	96	15809	0.2000	0.2088	
60 Tert-amyl methyl ether	73	7.421	7.415	0.006	98	35247	0.2000	0.2020	
* 61 Fluorobenzene (IS)	96	7.628	7.628	0.000	99	2357937	10.0	10.0	
62 n-Heptane	43	7.641	7.640	0.001	36	21932	0.2000	0.2409	
63 n-Butanol	56	8.043	7.988	0.055	79	10110	17.5	12.8	
64 Trichloroethene	95	8.116	8.110	0.006	97	16758	0.2000	0.2186	
65 Methylcyclohexane	83	8.421	8.415	0.006	91	25775	0.2000	0.2079	
66 1,2-Dichloropropane	63	8.445	8.433	0.012	74	13819	0.2000	0.2043	
67 Methyl methacrylate	69	8.549	8.518	0.031	72	4299	0.2000	0.1455	
68 1,4-Dioxane	88	8.549	8.524	0.025	39	840	10.0	3.27	
69 Dibromomethane	93	8.555	8.549	0.006	93	6718	0.2000	0.1987	
71 Dichlorobromomethane	83	8.781	8.780	0.001	98	15774	0.2000	0.1909	
72 2-Nitropropane	41	9.049	9.043	0.006	97	8215	1.00	0.9143	
75 1-Bromo-2-chloroethane	63	9.183	9.177	0.006	97	12954	0.2000	0.1914	
76 cis-1,3-Dichloropropene	75	9.341	9.329	0.012	96	20047	0.2000	0.1946	
77 4-Methyl-2-pentanone (MIBK)	43	9.506	9.500	0.006	95	72913	2.00	1.83	
$ 78 Toluene-d8 (Surr)	98	9.640	9.640	0.000	93	2355050	10.0	9.93	
79 Toluene	92	9.719	9.719	0.000	99	38549	0.2000	0.2070	
97 trans-1,3-Dichloropropene	75	9.988	9.975	0.013	94	15067	0.2000	0.1801	
99 Ethyl methacrylate	69	10.061	10.036	0.025	85	10917	0.2000	0.1671	
S 98 1,3-Dichloropropene, Total	100				0			0.3747	
100 1,1,2-Trichloroethane	97	10.189	10.183	0.006	90	9581	0.2000	0.1950	
101 Tetrachloroethene	166	10.274	10.274	0.000	97	18305	0.2000	0.2021	
102 1,3-Dichloropropane	76	10.347	10.341	0.006	90	15859	0.2000	0.1926	
103 2-Hexanone	43	10.414	10.390	0.024	96	48532	2.00	1.74	
105 Chlorodibromomethane	129	10.561	10.561	0.000	89	9721	0.2000	0.1682	
106 Ethylene Dibromide	107	10.677	10.670	0.007	96	9146	0.2000	0.1923	
* 107 Chlorobenzene-d5 (IS)	117	11.103	11.103	0.000	85	1792731	10.0	10.0	
108 1-Chlorohexane	91	11.115	11.109	0.006	87	24386	0.2000	0.2285	
109 Chlorobenzene	112	11.128	11.128	0.000	97	43364	0.2000	0.2089	
112 Ethylbenzene	91	11.219	11.213	0.006	98	72484	0.2000	0.2032	
111 1,1,1,2-Tetrachloroethane	131	11.207	11.213	-0.006	43	14380	0.2000	0.1997	
S 110 Xylenes, Total	106				0			0.6067	
113 m-Xylene & p-Xylene	106	11.335	11.329	0.006	100	57178	0.4000	0.4030	
114 o-Xylene	106	11.664	11.658	0.006	95	28232	0.2000	0.2037	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Styrene	104	11.682	11.676	0.006	89	42011	0.2000	0.1921	M
116 Bromoform	173	11.841	11.835	0.006	94	3985	0.2000	0.1256	
117 Isopropylbenzene	105	11.963	11.957	0.006	95	72277	0.2000	0.1996	
$ 120 4-Bromofluorobenzene (Surr)	95	12.103	12.103	0.000	93	873517	10.0	9.96	
121 1,1,2,2-Tetrachloroethane	83	12.207	12.201	0.006	73	11618	0.2000	0.1927	M
122 Bromobenzene	156	12.219	12.219	0.000	92	17771	0.2000	0.2079	
123 trans-1,4-Dichloro-2-butene	53	12.237	12.225	0.012	92	25364	2.00	1.70	
124 1,2,3-Trichloropropane	110	12.249	12.249	0.000	75	3122	0.2000	0.1848	
125 N-Propylbenzene	91	12.292	12.286	0.006	98	79014	0.2000	0.1933	
126 2-Chlorotoluene	126	12.371	12.365	0.006	97	16860	0.2000	0.1961	
127 1,3,5-Trimethylbenzene	105	12.426	12.420	0.006	94	60054	0.2000	0.1988	
128 4-Chlorotoluene	126	12.463	12.457	0.006	96	17210	0.2000	0.1965	
129 tert-Butylbenzene	134	12.664	12.664	0.000	92	14196	0.2000	0.2104	M
130 Pentachloroethane	167	12.694	12.700	-0.006	75	9711	0.2000	0.1787	
131 1,2,4-Trimethylbenzene	105	12.713	12.707	0.006	97	57410	0.2000	0.1889	
132 sec-Butylbenzene	105	12.829	12.828	0.001	94	75128	0.2000	0.1969	
133 1,3-Dichlorobenzene	146	12.932	12.926	0.006	98	33460	0.2000	0.2004	
134 4-Isopropyltoluene	119	12.938	12.938	0.000	96	64377	0.2000	0.1934	
* 135 1,4-Dichlorobenzene-d4	152	12.987	12.981	0.006	94	1038646	10.0	10.0	
136 1,4-Dichlorobenzene	146	13.005	12.999	0.006	92	35973	0.2000	0.2063	
137 1,2,3-Trimethylbenzene	120	13.011	13.011	0.000	98	27186	0.2000	0.2028	
138 Benzyl chloride	126	13.091	13.078	0.013	98	3937	0.2000	0.1643	
139 n-Butylbenzene	92	13.231	13.225	0.006	97	27853	0.2000	0.1814	
140 1,2-Dichlorobenzene	146	13.267	13.261	0.006	97	30495	0.2000	0.1960	
142 1,2-Dibromo-3-Chloropropane	155	13.804	13.804	0.000	81	1022	0.2000	0.1216	
143 1,3,5-Trichlorobenzene	180	13.938	13.932	0.006	97	22906	0.2000	0.1917	
144 1,2,4-Trichlorobenzene	180	14.359	14.353	0.006	94	19837	0.2000	0.1929	
145 Hexachlorobutadiene	225	14.432	14.432	0.000	97	12064	0.2000	0.2639	
146 Naphthalene	128	14.542	14.529	0.013	97	36456	0.2000	0.1914	
147 1,2,3-Trichlorobenzene	180	14.682	14.676	0.006	96	17706	0.2000	0.1997	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
165 Isopropyl alcohol	45		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00056	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00060	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00116	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00005	Amount Added:	5.00	Units: uL	Run Reagent

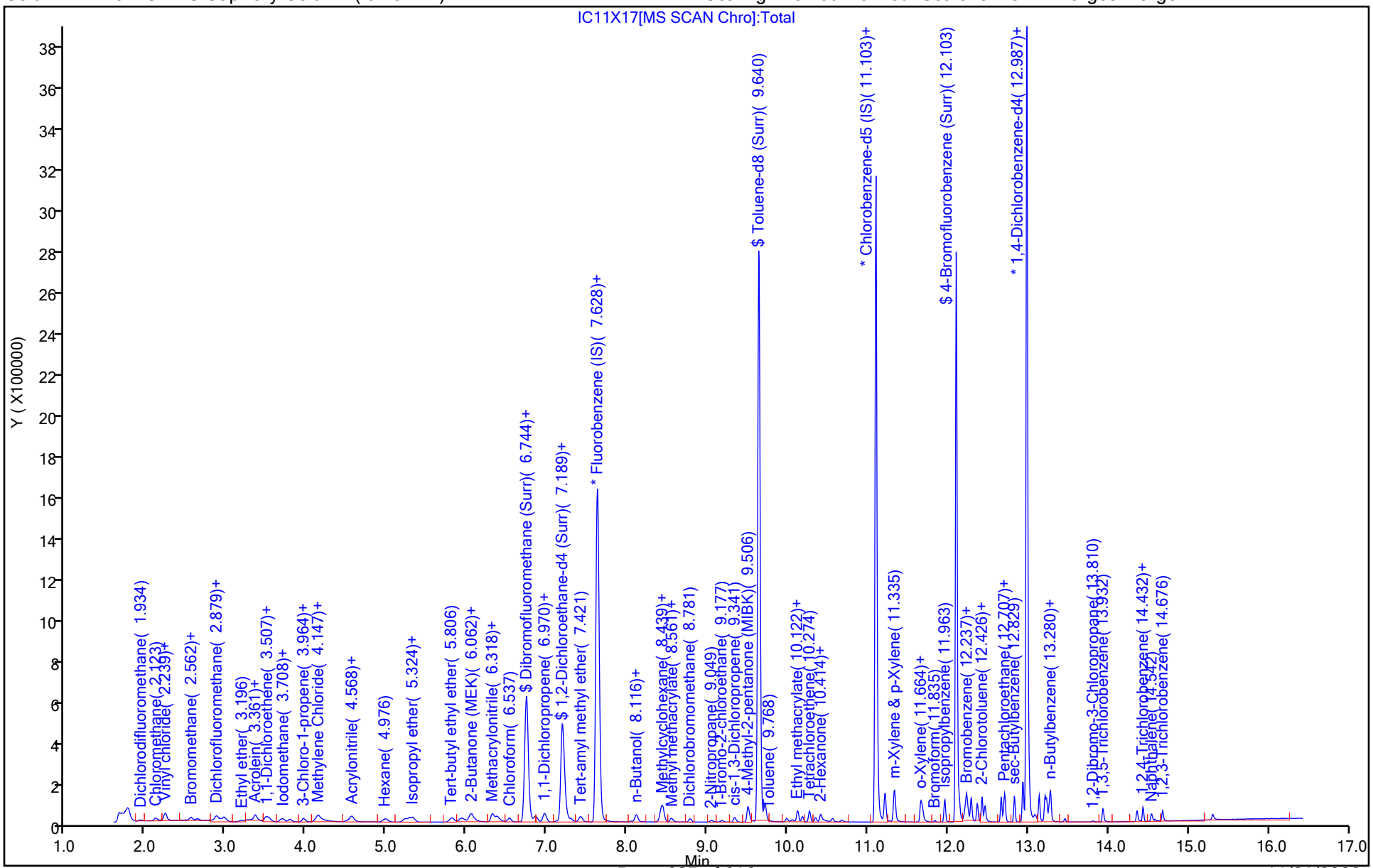
Report Date: 13-Oct-2022 11:35:48 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D

Injection Date:	11-Oct-2022 20:20:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	IC std1			Worklist Smp#:	18
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

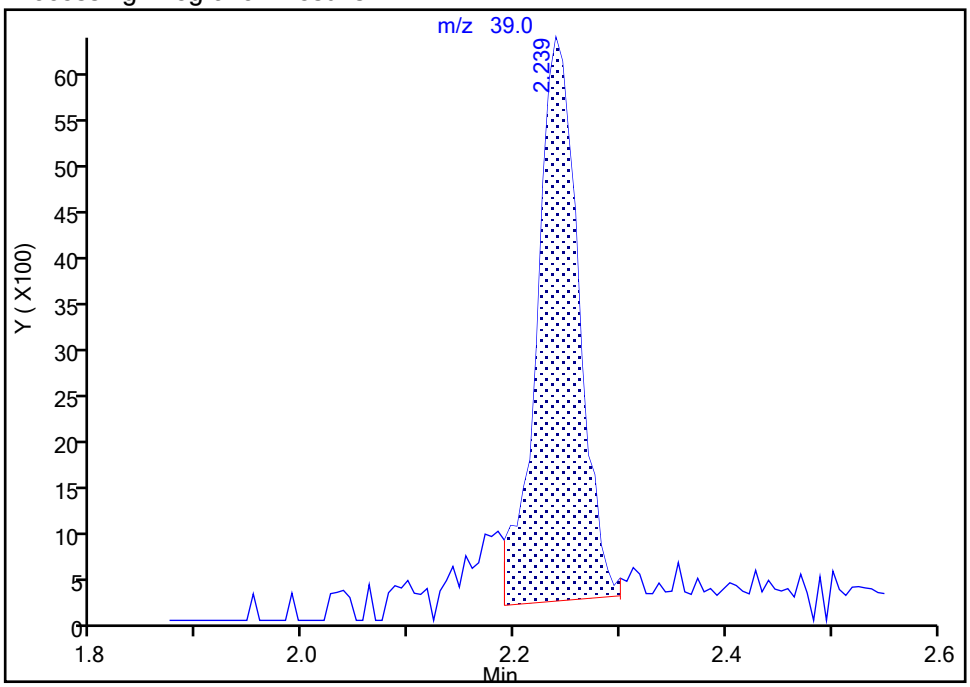
Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D
Injection Date: 11-Oct-2022 20:20:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

6 Butadiene, CAS: 106-99-0

Signal: 1

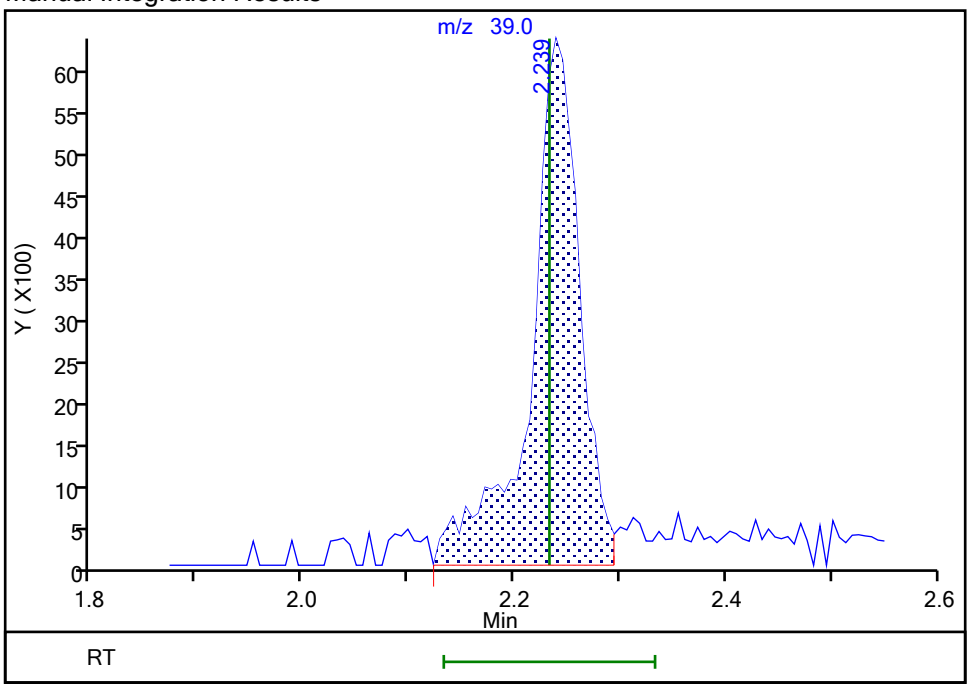
Processing Integration Results

RT: 2.24
Area: 17000
Amount: 0.209467
Amount Units: ug/l



Manual Integration Results

RT: 2.24
Area: 20685
Amount: 0.246866
Amount Units: ug/l



Reviewer: DVW2, 12-Oct-2022 11:02:44
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

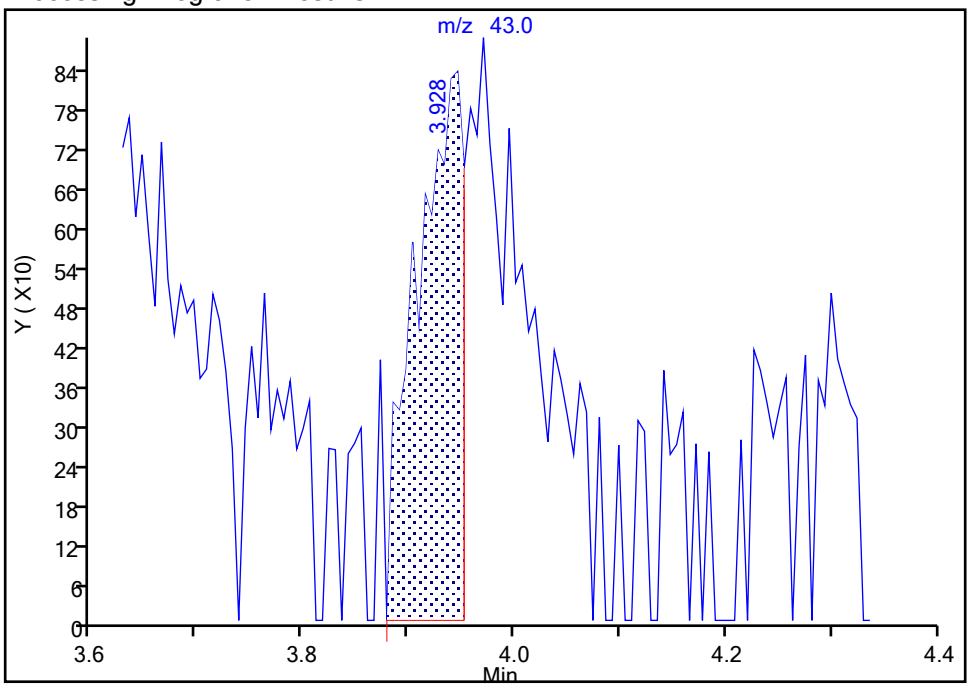
Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D
Injection Date: 11-Oct-2022 20:20:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

23 Methyl acetate, CAS: 79-20-9

Signal: 1

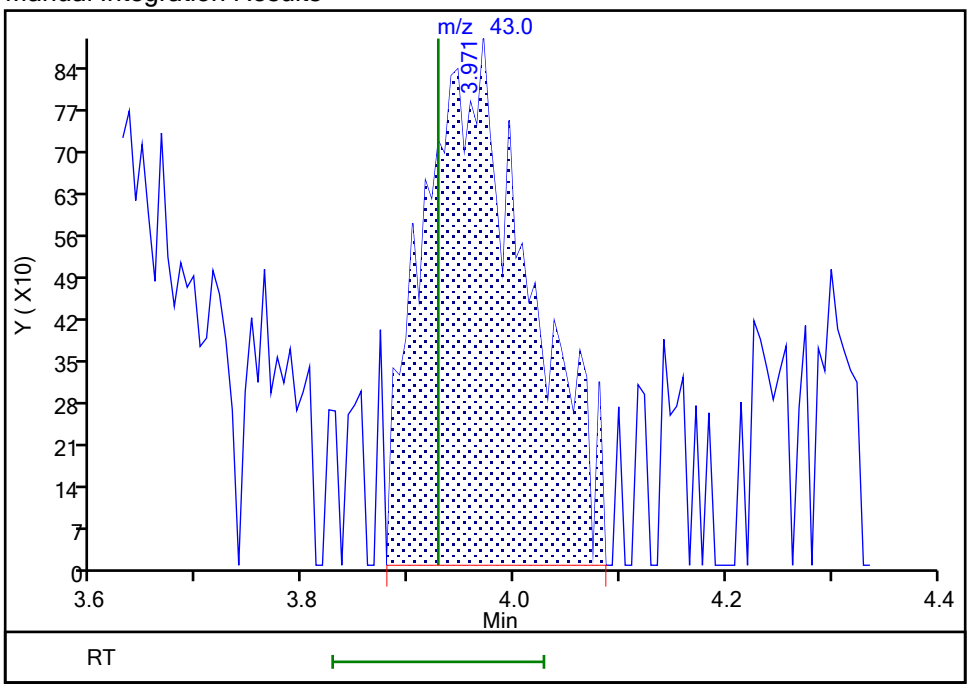
Processing Integration Results

RT: 3.93
Area: 2565
Amount: 0.129825
Amount Units: ug/l



Manual Integration Results

RT: 3.97
Area: 6168
Amount: 0.259795
Amount Units: ug/l



Reviewer: DVW2, 12-Oct-2022 11:03:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

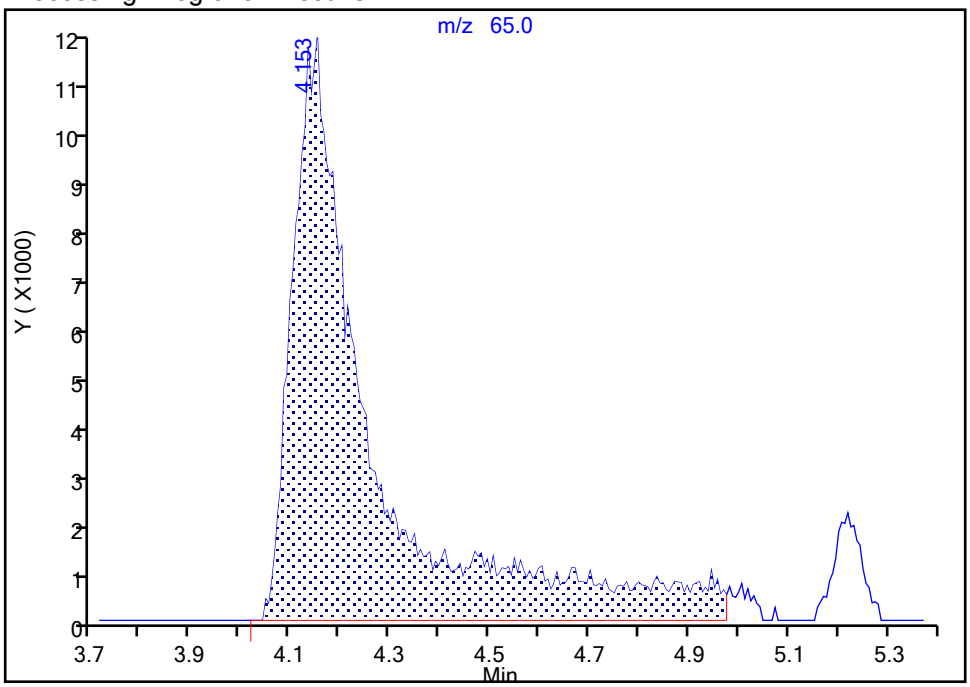
Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D
Injection Date: 11-Oct-2022 20:20:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

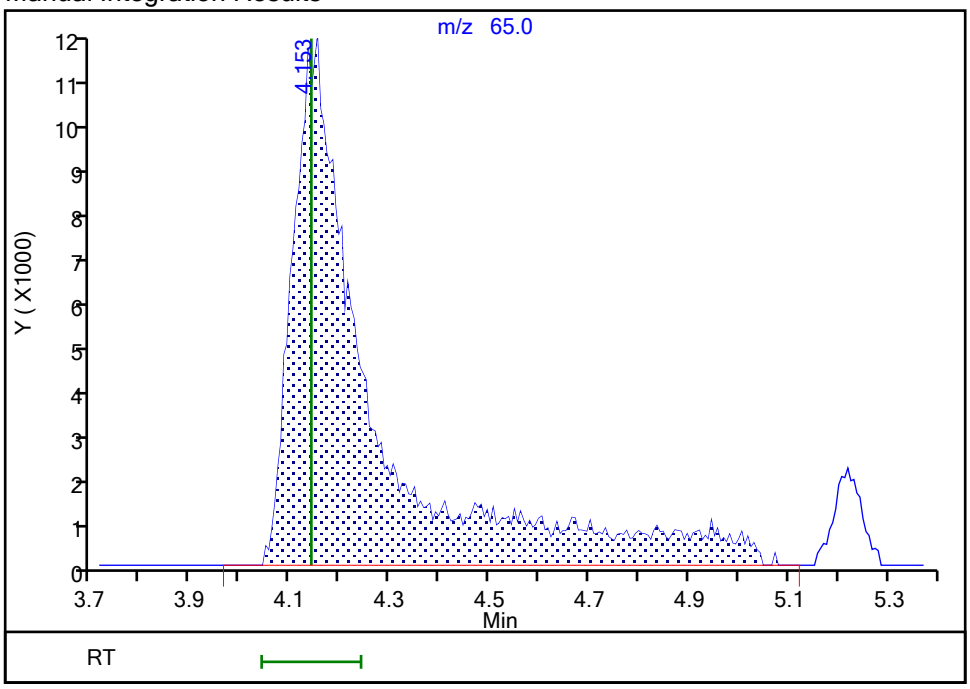
Processing Integration Results

RT: 4.15
Area: 125594
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.15
Area: 127685
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 12-Oct-2022 11:03:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

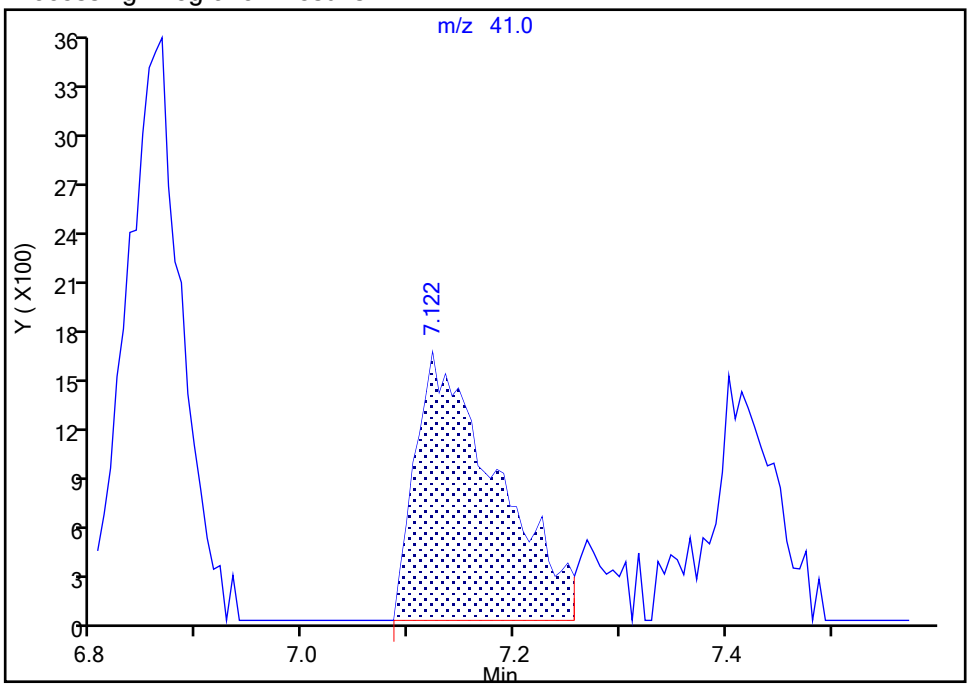
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D				
Injection Date:	11-Oct-2022 20:20:30	Instrument ID:	19930		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

55 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

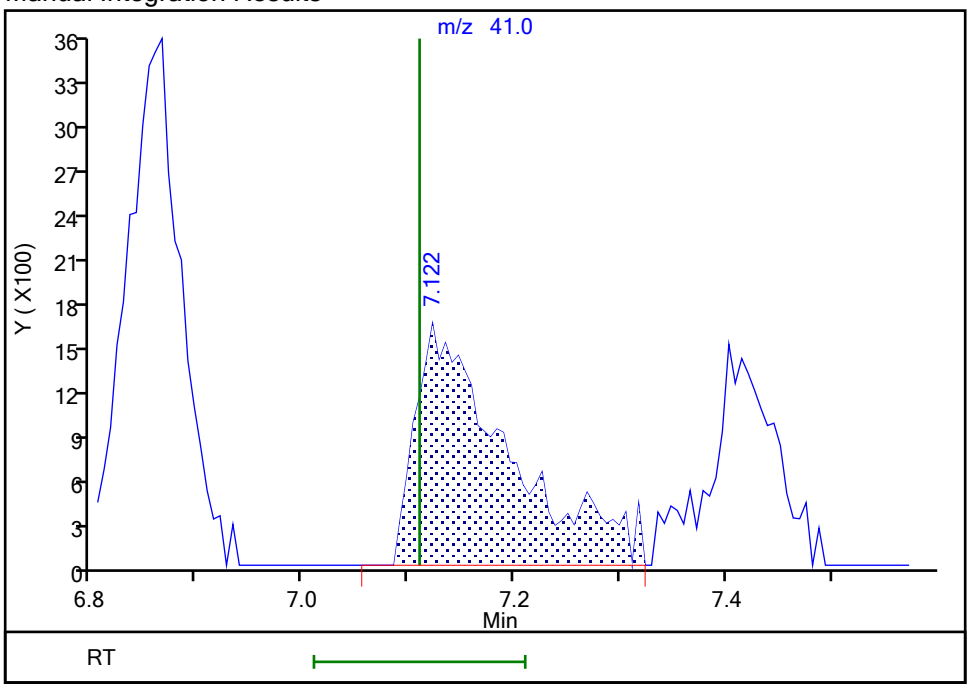
Processing Integration Results

RT: 7.12
Area: 8715
Amount: 9.974675
Amount Units: ug/l



Manual Integration Results

RT: 7.12
Area: 9902
Amount: 10.582066
Amount Units: ug/l



Reviewer: DVW2, 12-Oct-2022 11:03:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

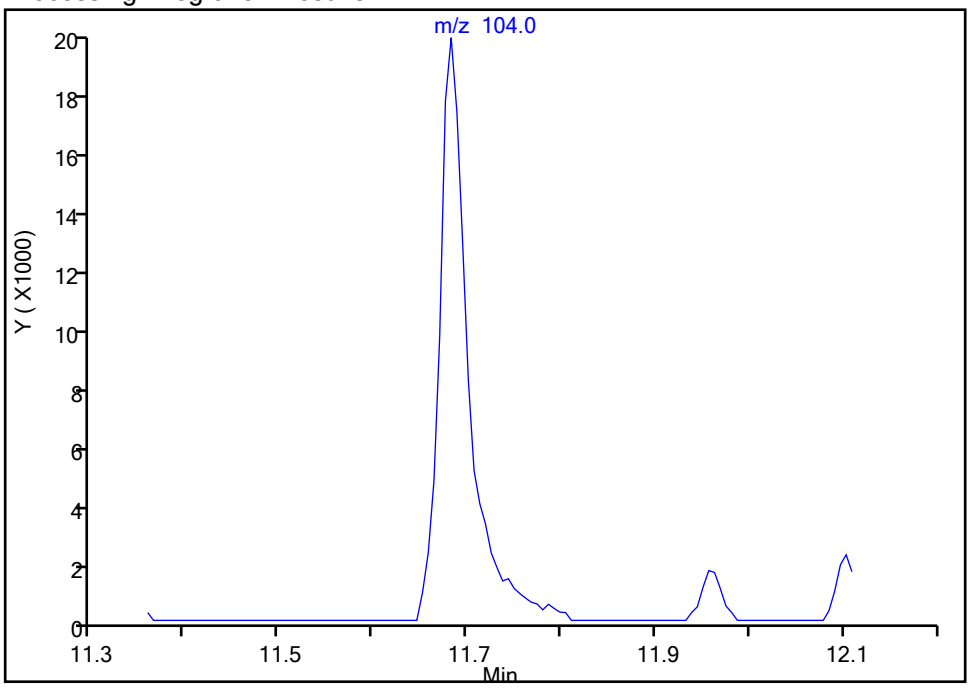
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D				
Injection Date:	11-Oct-2022 20:20:30	Instrument ID:	19930		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

115 Styrene, CAS: 100-42-5

Signal: 1

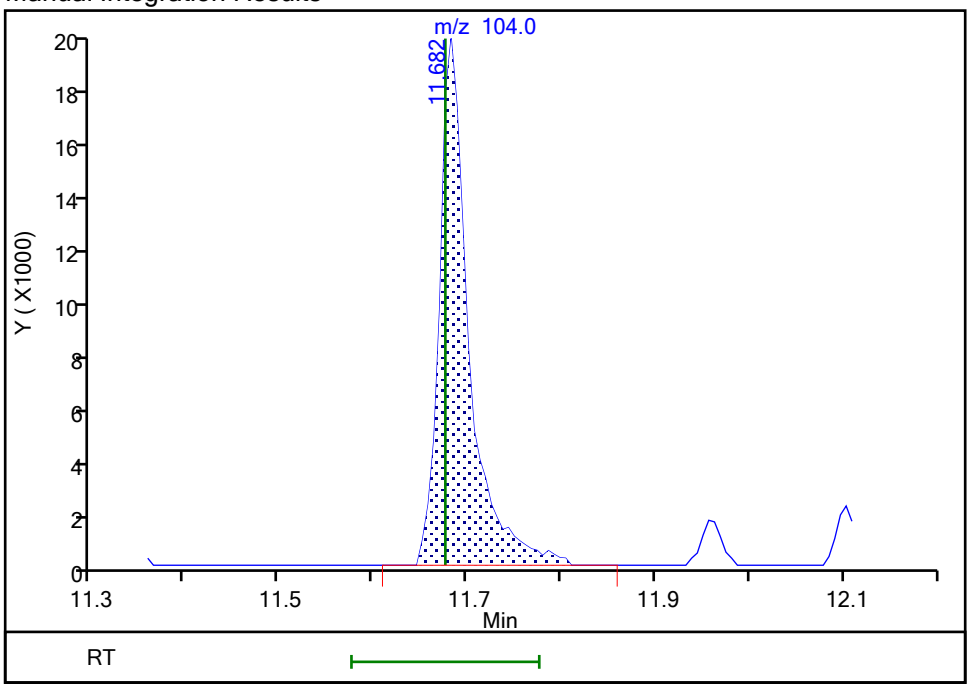
Not Detected
Expected RT: 11.68

Processing Integration Results



Manual Integration Results

RT: 11.68
Area: 42011
Amount: 0.192127
Amount Units: ug/l



Reviewer: DVW2, 12-Oct-2022 11:04:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

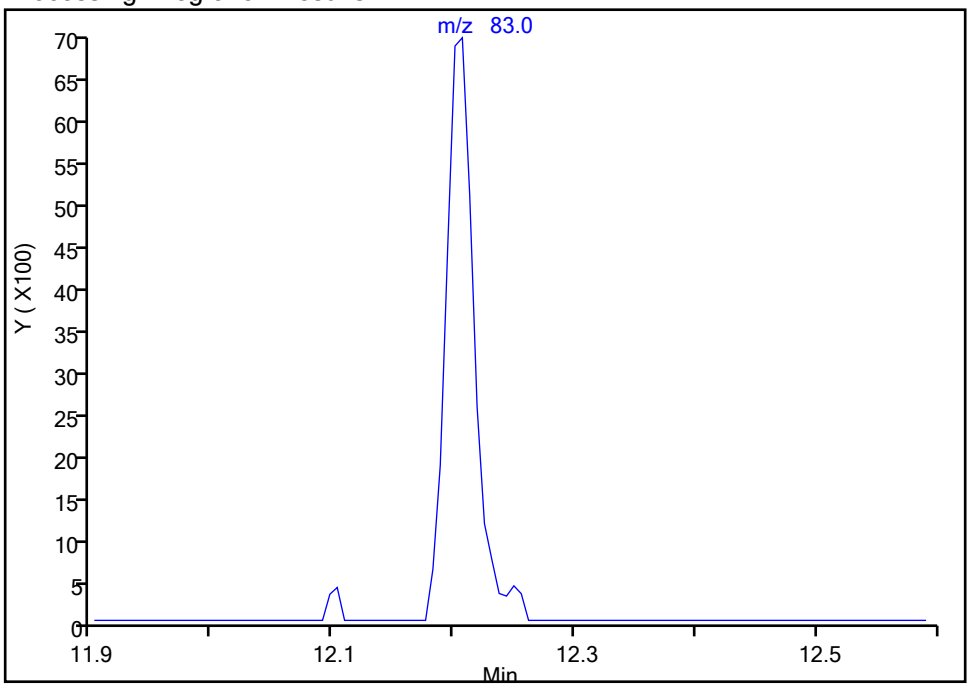
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D				
Injection Date:	11-Oct-2022 20:20:30	Instrument ID:	19930		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

121 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 1

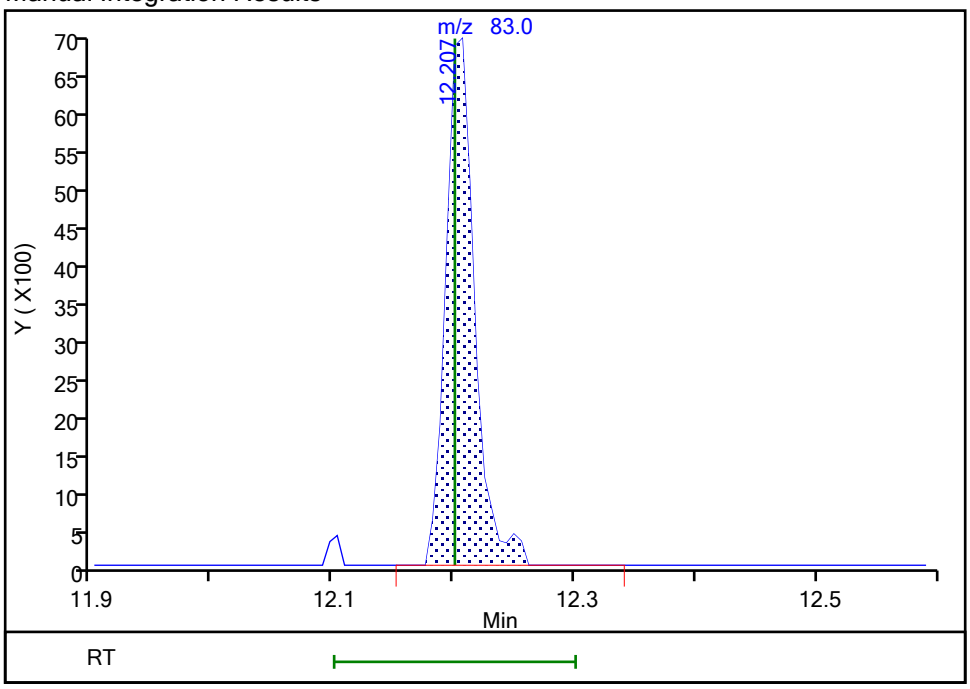
Not Detected
Expected RT: 12.20

Processing Integration Results



Manual Integration Results

RT: 12.21
Area: 11618
Amount: 0.192652
Amount Units: ug/l



Reviewer: DVW2, 12-Oct-2022 11:04:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

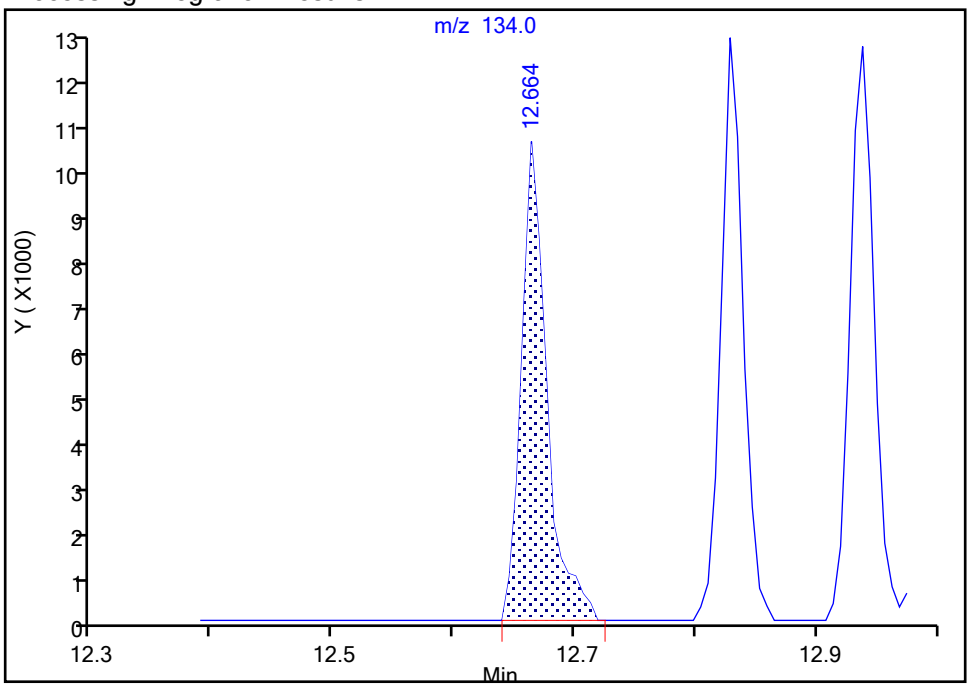
Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D
Injection Date: 11-Oct-2022 20:20:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

129 tert-Butylbenzene, CAS: 98-06-6

Signal: 1

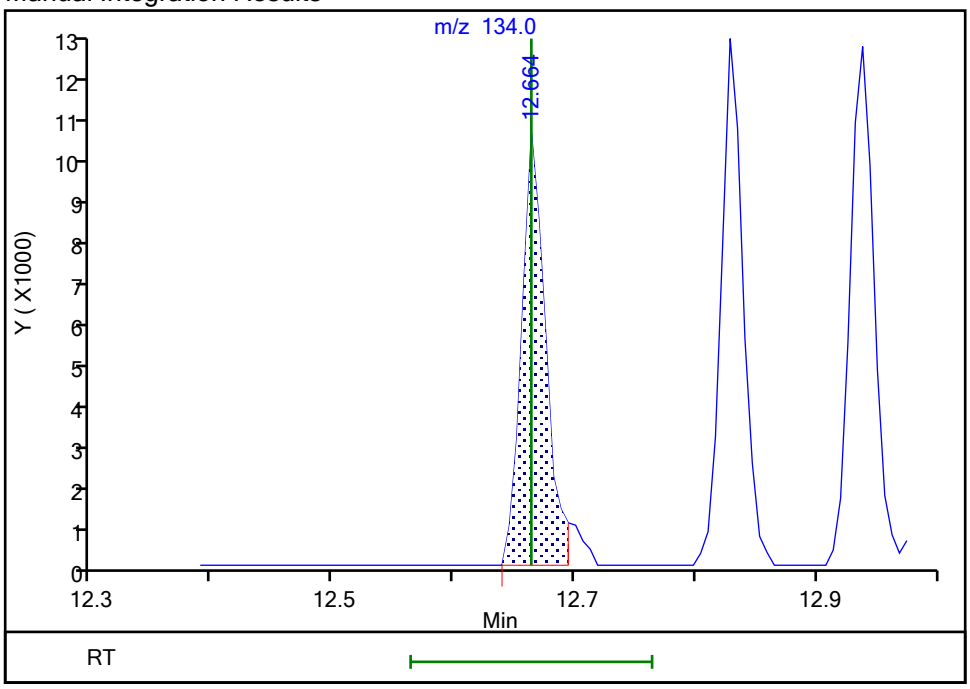
Processing Integration Results

RT: 12.66
Area: 14888
Amount: 0.219029
Amount Units: ug/l



Manual Integration Results

RT: 12.66
Area: 14196
Amount: 0.210378
Amount Units: ug/l



Reviewer: UKEK, 13-Oct-2022 09:43:44
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

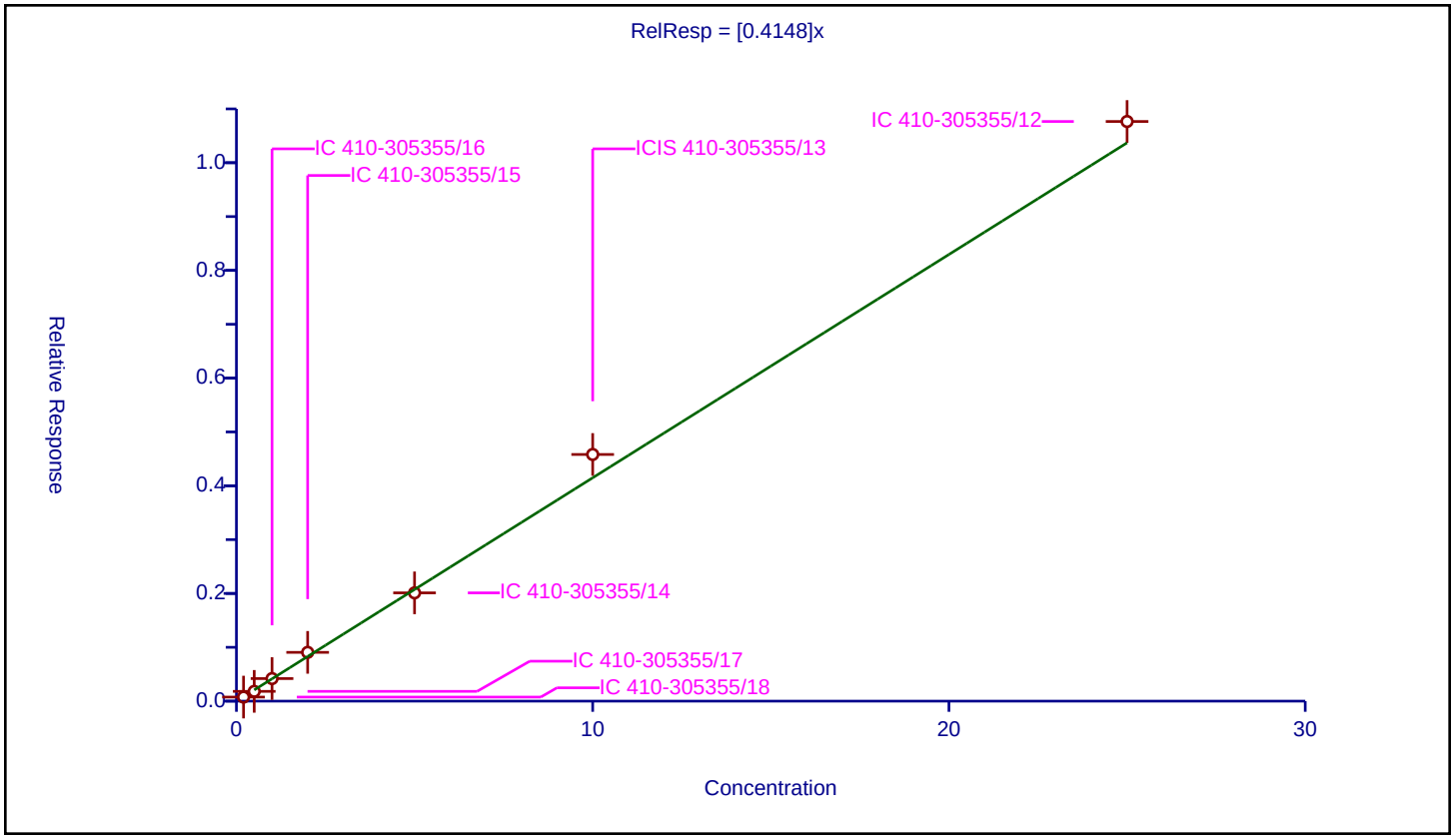
Curve Coefficients

Intercept:	0
Slope:	0.4148

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	8.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.075312	10.0	2357937.0	0.376558	Y
2	IC 410-305355/17	0.5	0.181844	10.0	2400580.0	0.363687	Y
3	IC 410-305355/16	1.0	0.419253	10.0	2385384.0	0.419253	Y
4	IC 410-305355/15	2.0	0.906228	10.0	2337590.0	0.453114	Y
5	IC 410-305355/14	5.0	2.01112	10.0	2362863.0	0.402224	Y
6	ICIS 410-305355/13	10.0	4.581707	10.0	2376313.0	0.458171	Y
7	IC 410-305355/12	25.0	10.766251	10.0	2406079.0	0.43065	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

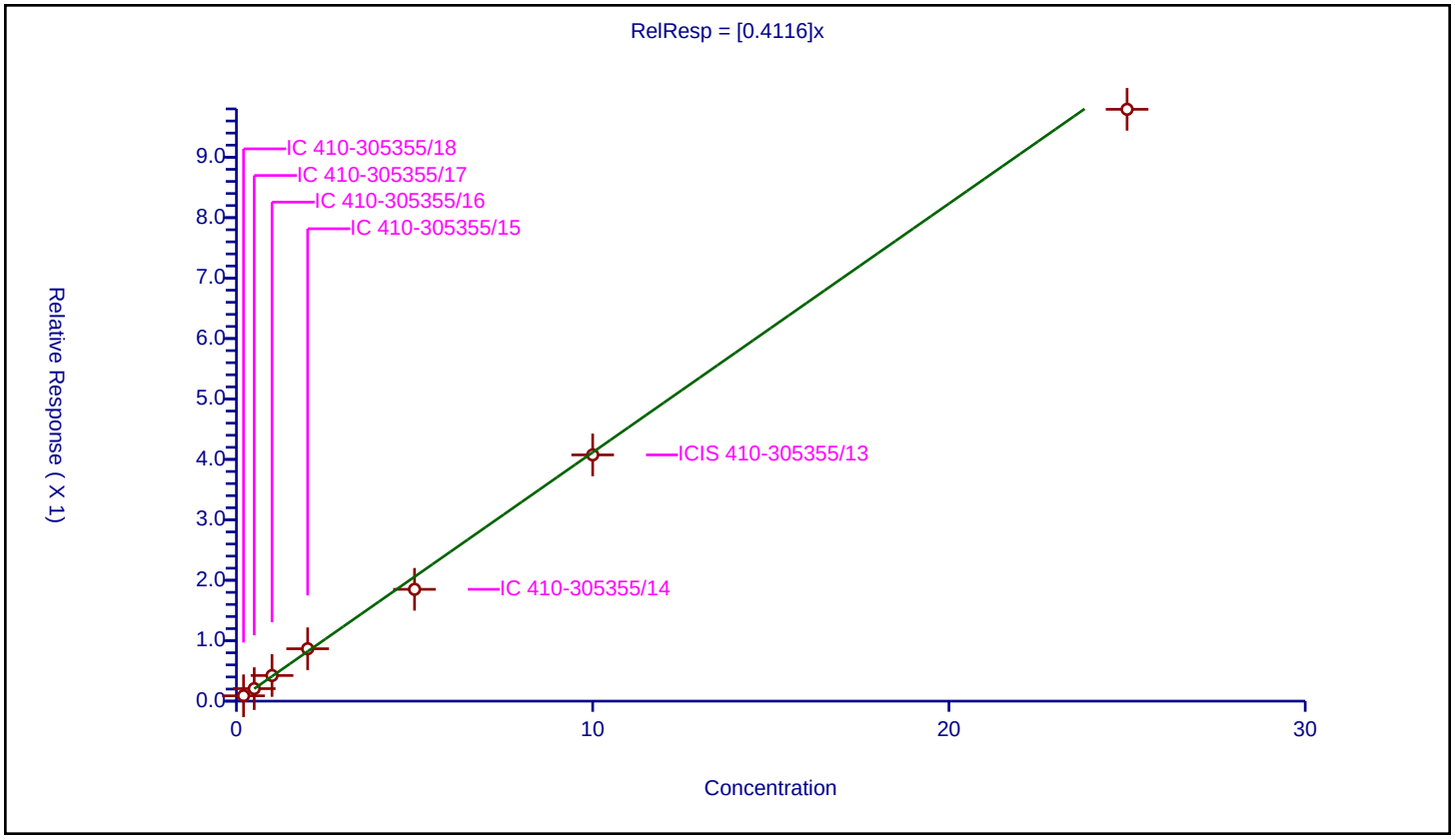
Curve Coefficients

Intercept:	0
Slope:	0.4116

Error Coefficients

Standard Error:	1060000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.088187	10.0	2357937.0	0.440936	Y
2	IC 410-305355/17	0.5	0.206858	10.0	2400580.0	0.413717	Y
3	IC 410-305355/16	1.0	0.423982	10.0	2385384.0	0.423982	Y
4	IC 410-305355/15	2.0	0.866914	10.0	2337590.0	0.433457	Y
5	IC 410-305355/14	5.0	1.850205	10.0	2362863.0	0.370041	Y
6	ICIS 410-305355/13	10.0	4.07459	10.0	2376313.0	0.407459	Y
7	IC 410-305355/12	25.0	9.793141	10.0	2406079.0	0.391726	Y



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Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

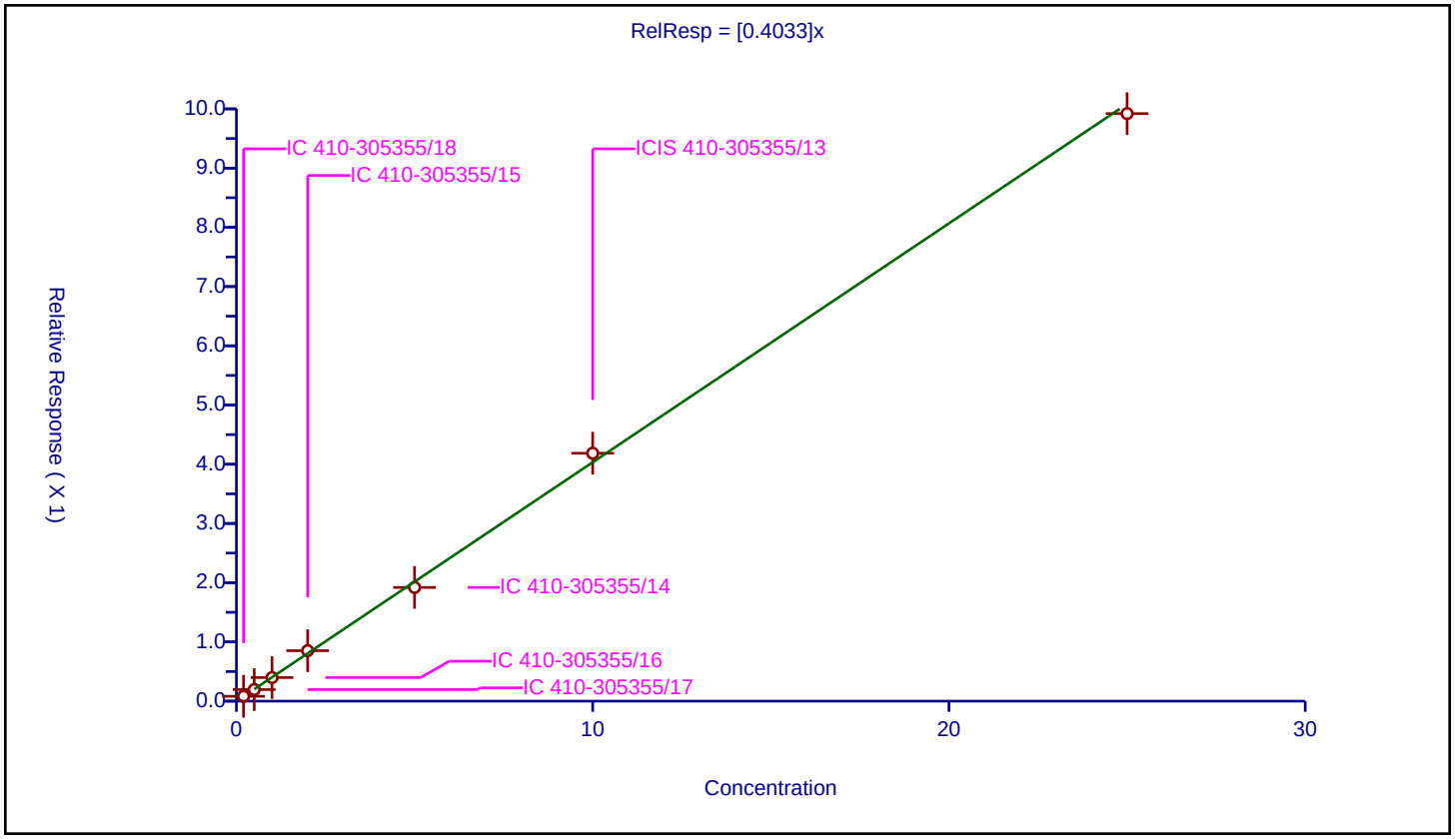
Curve Coefficients

Intercept:	0
Slope:	0.4033

Error Coefficients

Standard Error:	1080000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.081864	10.0	2357937.0	0.40932	Y
2	IC 410-305355/17	0.5	0.195269	10.0	2400580.0	0.390539	Y
3	IC 410-305355/16	1.0	0.398133	10.0	2385384.0	0.398133	Y
4	IC 410-305355/15	2.0	0.85198	10.0	2337590.0	0.42599	Y
5	IC 410-305355/14	5.0	1.919476	10.0	2362863.0	0.383895	Y
6	ICIS 410-305355/13	10.0	4.186048	10.0	2376313.0	0.418605	Y
7	IC 410-305355/12	25.0	9.920406	10.0	2406079.0	0.396816	Y



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Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

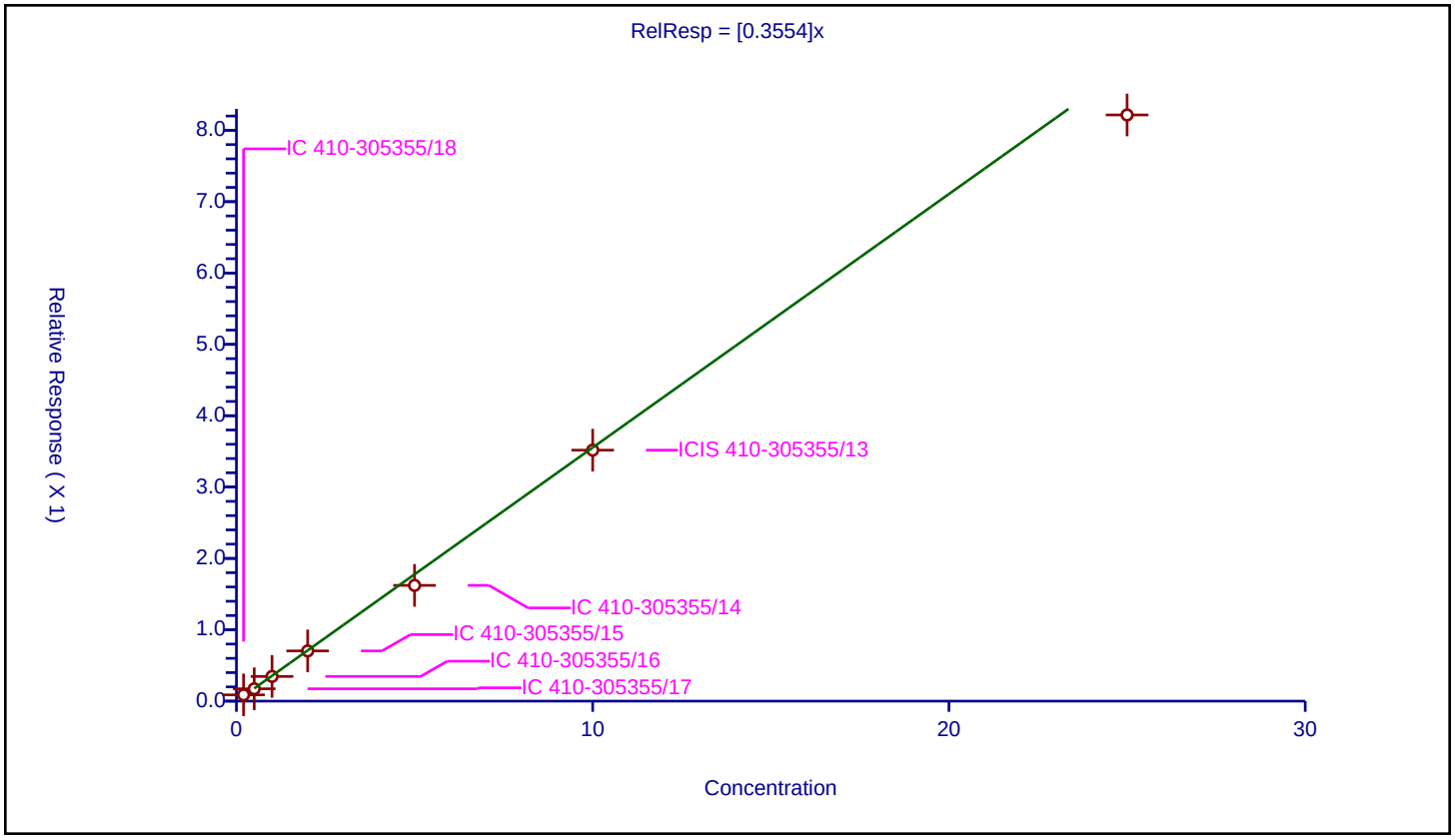
Curve Coefficients

Intercept:	0
Slope:	0.3554

Error Coefficients

Standard Error:	893000
Relative Standard Error:	10.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.087725	10.0	2357937.0	0.438625	Y
2	IC 410-305355/17	0.5	0.173087	10.0	2400580.0	0.346175	Y
3	IC 410-305355/16	1.0	0.346053	10.0	2385384.0	0.346053	Y
4	IC 410-305355/15	2.0	0.703639	10.0	2337590.0	0.35182	Y
5	IC 410-305355/14	5.0	1.62224	10.0	2362863.0	0.324448	Y
6	ICIS 410-305355/13	10.0	3.517479	10.0	2376313.0	0.351748	Y
7	IC 410-305355/12	25.0	8.215404	10.0	2406079.0	0.328616	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

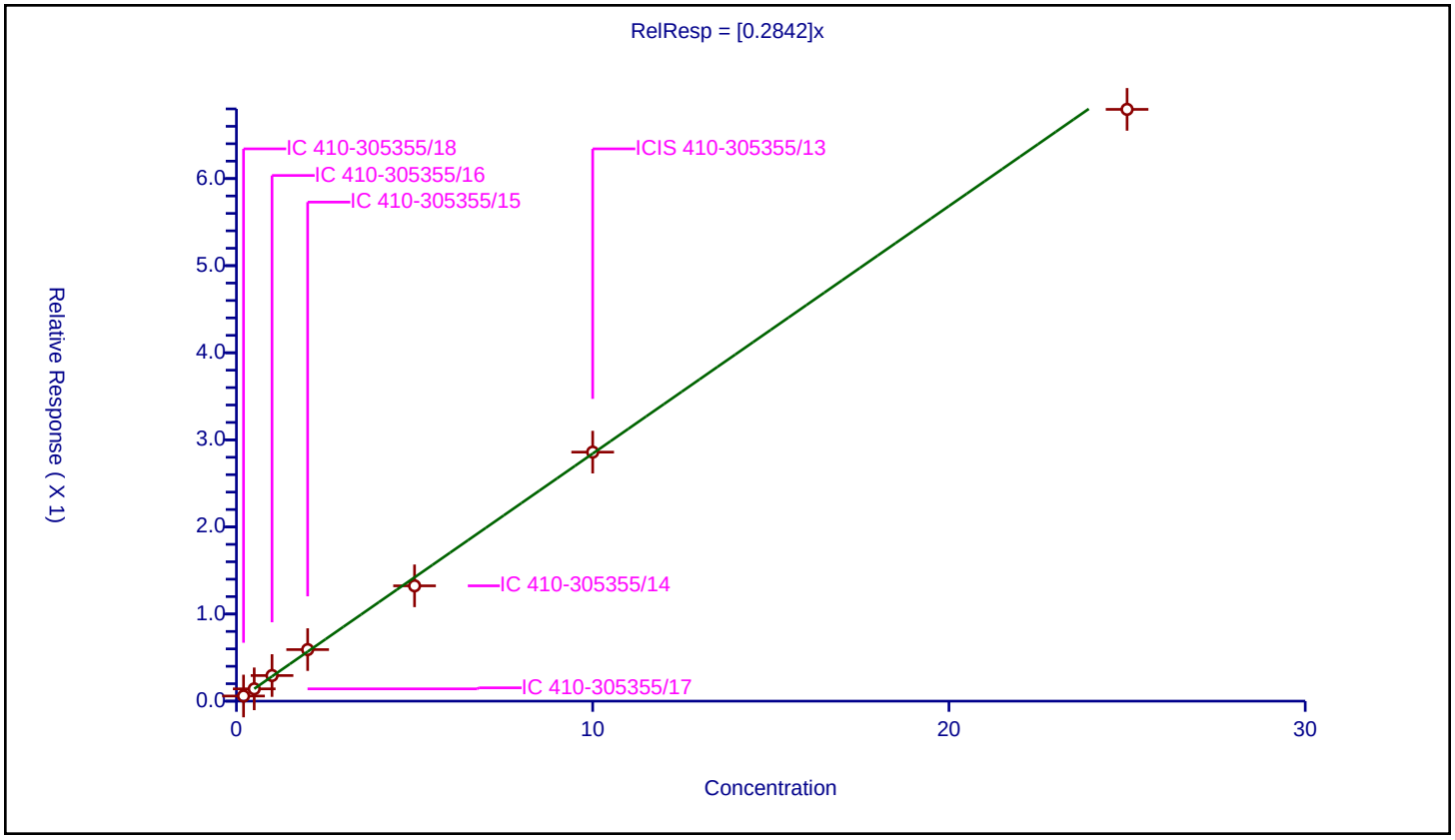
Curve Coefficients

Intercept:	0
Slope:	0.2842

Error Coefficients

Standard Error:	737000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.058984	10.0	2357937.0	0.294919	Y
2	IC 410-305355/17	0.5	0.141087	10.0	2400580.0	0.282173	Y
3	IC 410-305355/16	1.0	0.293995	10.0	2385384.0	0.293995	Y
4	IC 410-305355/15	2.0	0.591857	10.0	2337590.0	0.295929	Y
5	IC 410-305355/14	5.0	1.324101	10.0	2362863.0	0.26482	Y
6	ICIS 410-305355/13	10.0	2.859055	10.0	2376313.0	0.285906	Y
7	IC 410-305355/12	25.0	6.794353	10.0	2406079.0	0.271774	Y



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Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

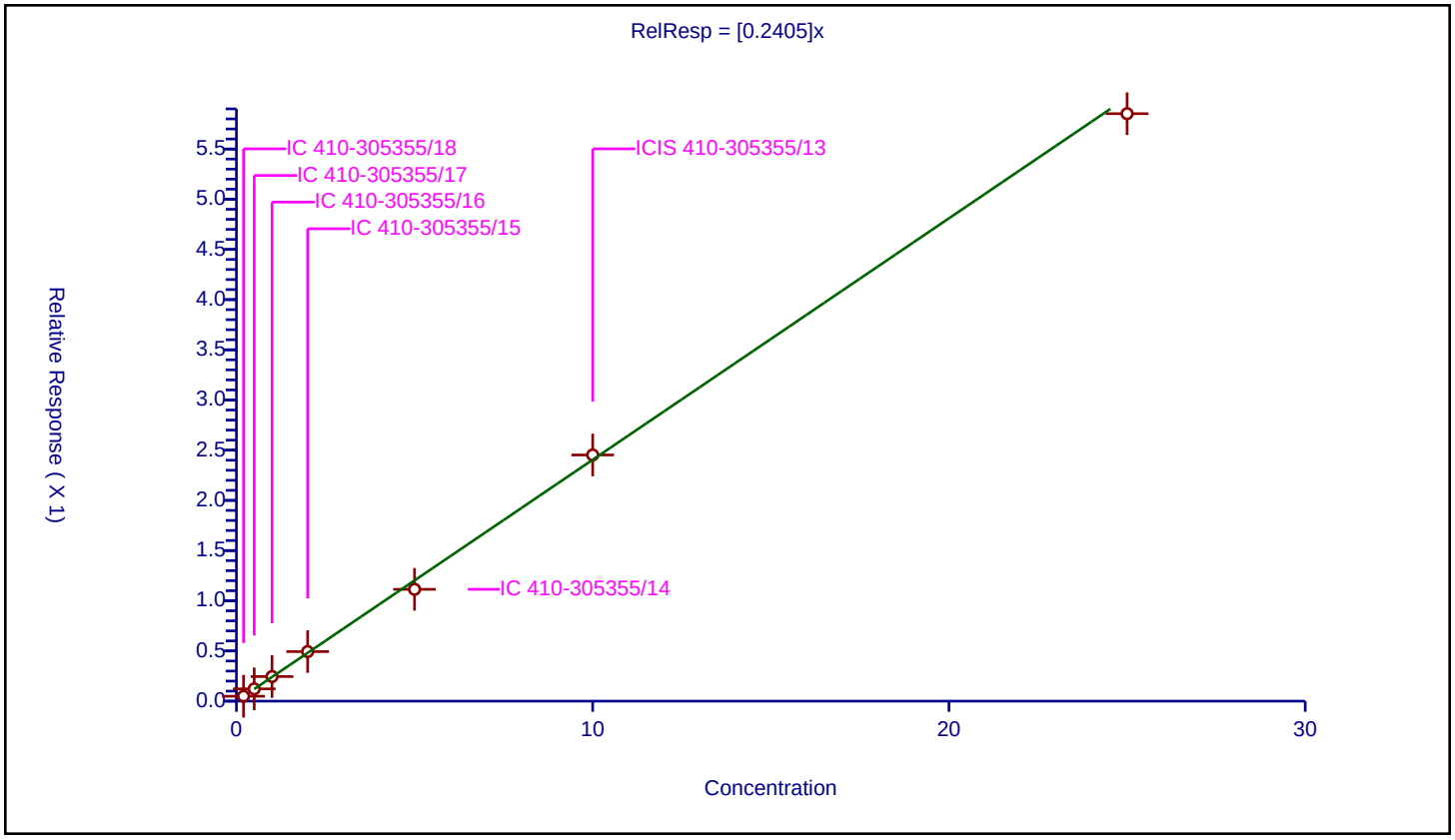
Curve Coefficients

Intercept:	0
Slope:	0.2405

Error Coefficients

Standard Error:	634000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.048941	10.0	2357937.0	0.244705	Y
2	IC 410-305355/17	0.5	0.1223	10.0	2400580.0	0.244599	Y
3	IC 410-305355/16	1.0	0.24513	10.0	2385384.0	0.24513	Y
4	IC 410-305355/15	2.0	0.493718	10.0	2337590.0	0.246859	Y
5	IC 410-305355/14	5.0	1.114026	10.0	2362863.0	0.222805	Y
6	ICIS 410-305355/13	10.0	2.452211	10.0	2376313.0	0.245221	Y
7	IC 410-305355/12	25.0	5.852314	10.0	2406079.0	0.234093	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

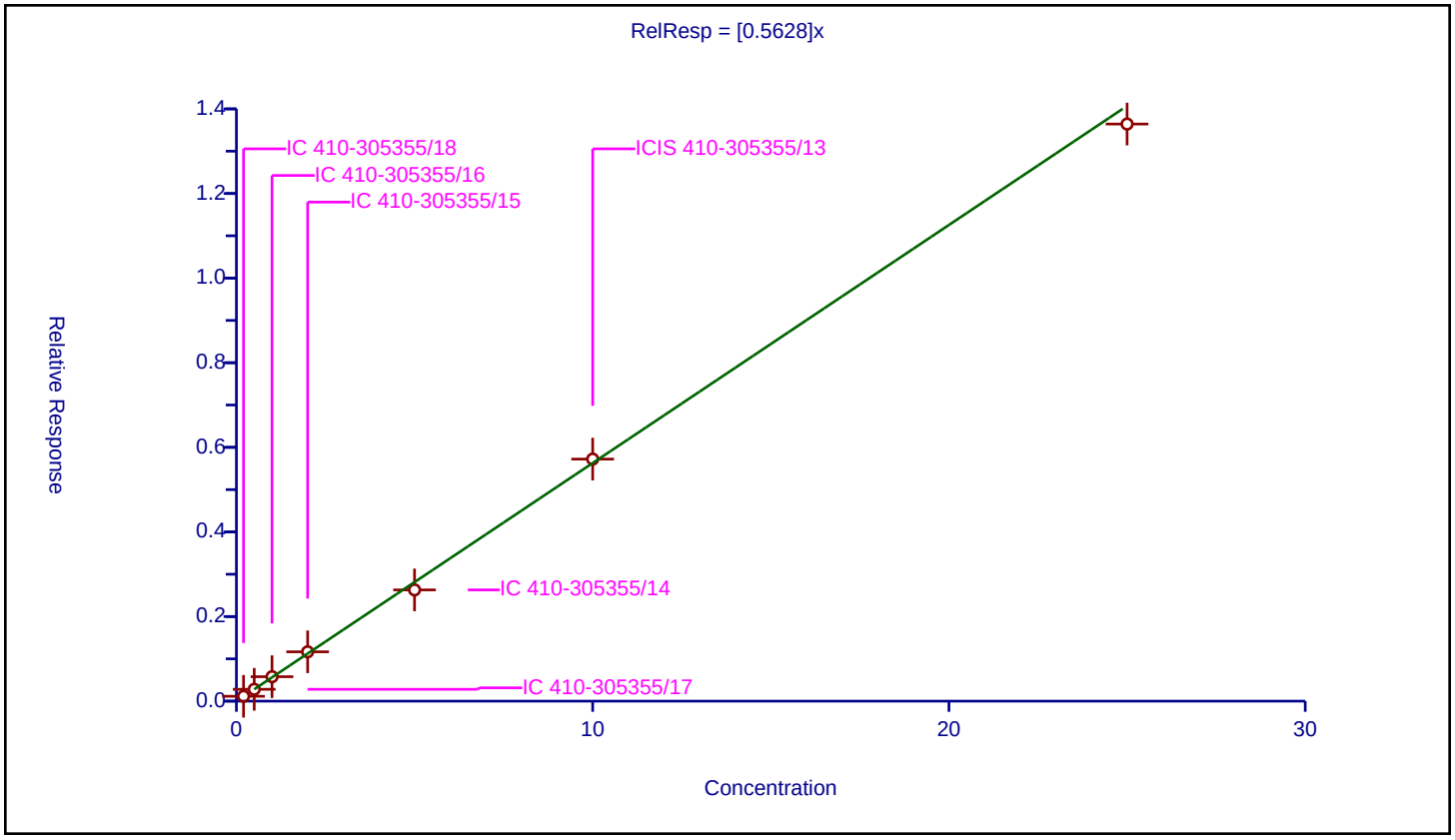
Curve Coefficients

Intercept:	0
Slope:	0.5628

Error Coefficients

Standard Error:	1480000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.114999	10.0	2357937.0	0.574994	Y
2	IC 410-305355/17	0.5	0.28012	10.0	2400580.0	0.56024	Y
3	IC 410-305355/16	1.0	0.577505	10.0	2385384.0	0.577505	Y
4	IC 410-305355/15	2.0	1.166321	10.0	2337590.0	0.58316	Y
5	IC 410-305355/14	5.0	2.629386	10.0	2362863.0	0.525877	Y
6	ICIS 410-305355/13	10.0	5.721477	10.0	2376313.0	0.572148	Y
7	IC 410-305355/12	25.0	13.642013	10.0	2406079.0	0.545681	Y



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Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

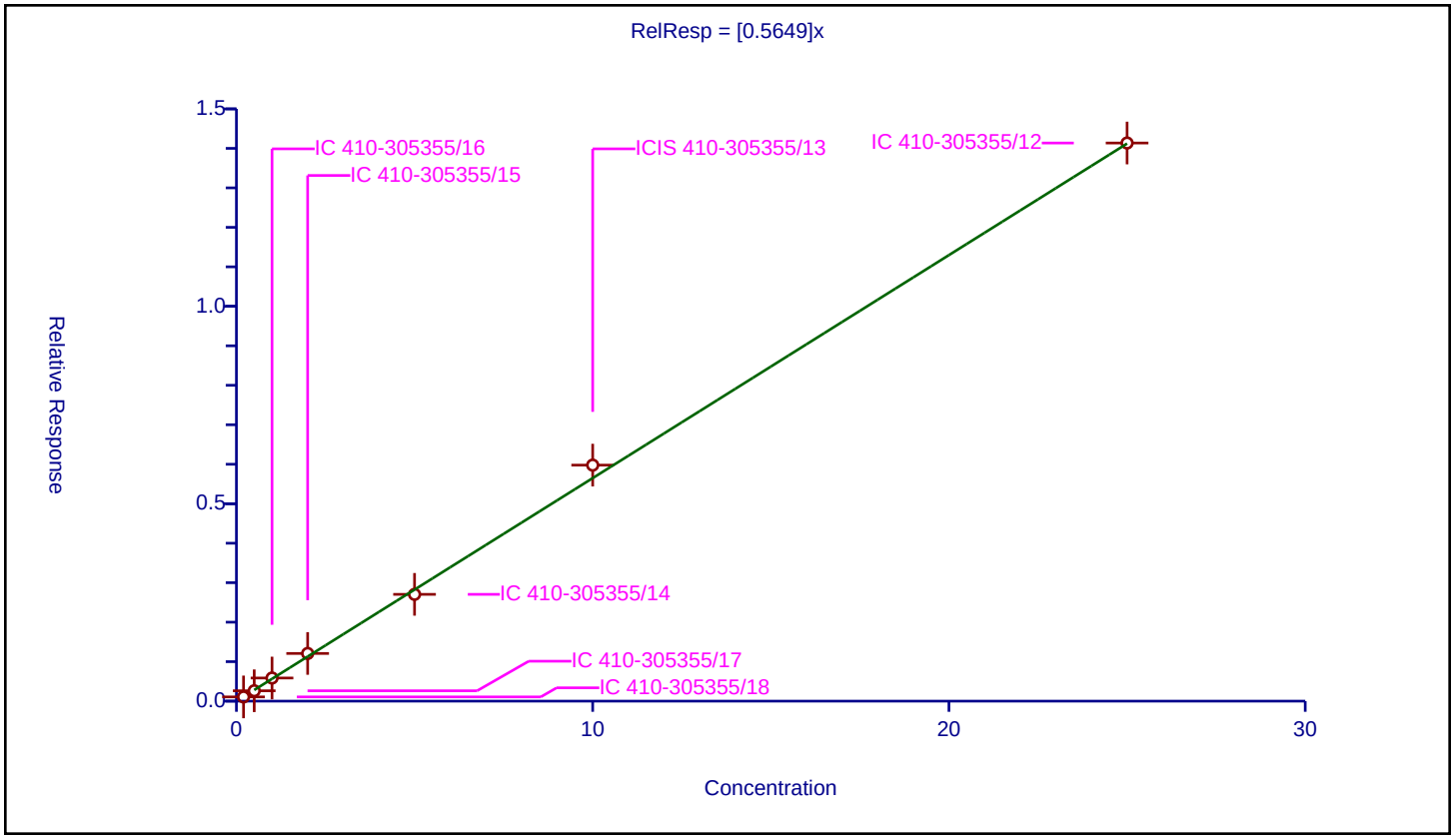
Curve Coefficients

Intercept:	0
Slope:	0.5649

Error Coefficients

Standard Error:	1530000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.107009	10.0	2357937.0	0.535044	Y
2	IC 410-305355/17	0.5	0.262691	10.0	2400580.0	0.525381	Y
3	IC 410-305355/16	1.0	0.5856	10.0	2385384.0	0.5856	Y
4	IC 410-305355/15	2.0	1.207731	10.0	2337590.0	0.603866	Y
5	IC 410-305355/14	5.0	2.704423	10.0	2362863.0	0.540885	Y
6	ICIS 410-305355/13	10.0	5.977984	10.0	2376313.0	0.597798	Y
7	IC 410-305355/12	25.0	14.136057	10.0	2406079.0	0.565442	Y



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Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

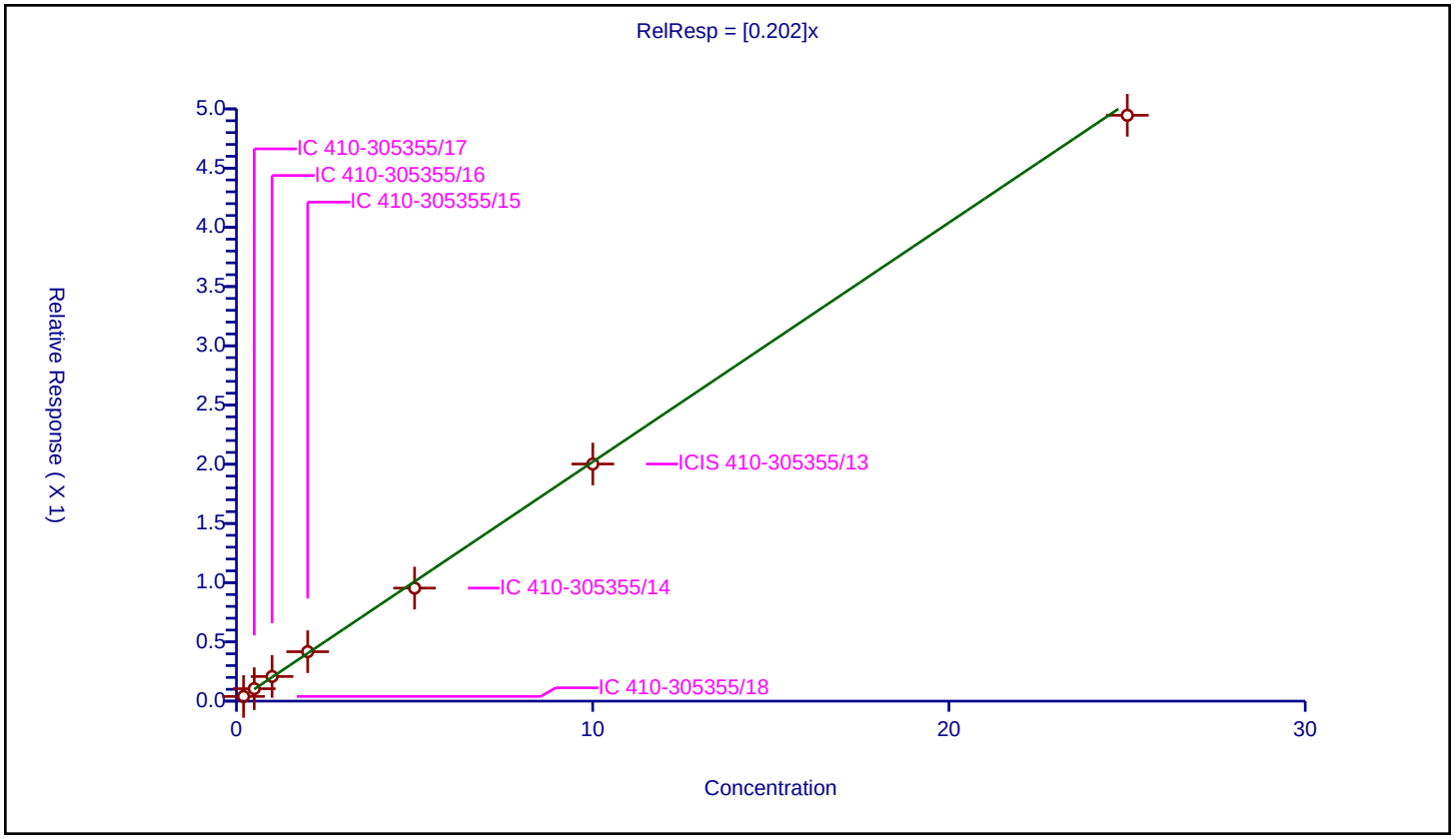
Curve Coefficients

Intercept:	0
Slope:	0.202

Error Coefficients

Standard Error:	533000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.200057	0.039742	10.0	2357937.0	0.198655	Y
2	IC 410-305355/17	0.500143	0.104833	10.0	2400580.0	0.209606	Y
3	IC 410-305355/16	1.000286	0.208193	10.0	2385384.0	0.208133	Y
4	IC 410-305355/15	2.000572	0.417486	10.0	2337590.0	0.208683	Y
5	IC 410-305355/14	5.00143	0.954334	10.0	2362863.0	0.190812	Y
6	ICIS 410-305355/13	10.00286	2.002097	10.0	2376313.0	0.200152	Y
7	IC 410-305355/12	25.00715	4.946022	10.0	2406079.0	0.197784	Y



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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

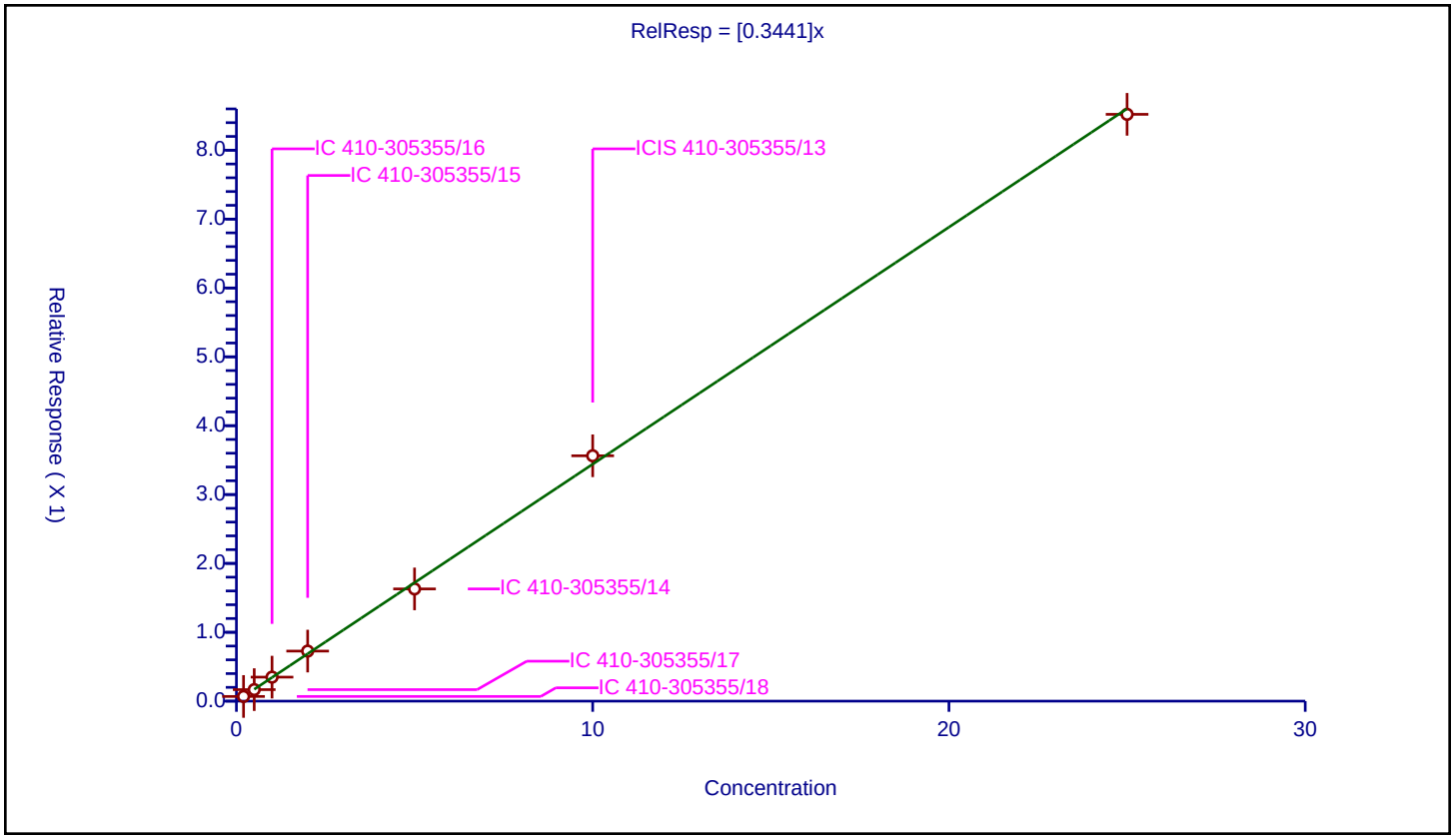
Curve Coefficients

Intercept:	0
Slope:	0.3441

Error Coefficients

Standard Error:	922000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.06789	10.0	2357937.0	0.339449	Y
2	IC 410-305355/17	0.5	0.16716	10.0	2400580.0	0.334319	Y
3	IC 410-305355/16	1.0	0.348644	10.0	2385384.0	0.348644	Y
4	IC 410-305355/15	2.0	0.726808	10.0	2337590.0	0.363404	Y
5	IC 410-305355/14	5.0	1.629612	10.0	2362863.0	0.325922	Y
6	ICIS 410-305355/13	10.0	3.562771	10.0	2376313.0	0.356277	Y
7	IC 410-305355/12	25.0	8.520975	10.0	2406079.0	0.340839	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

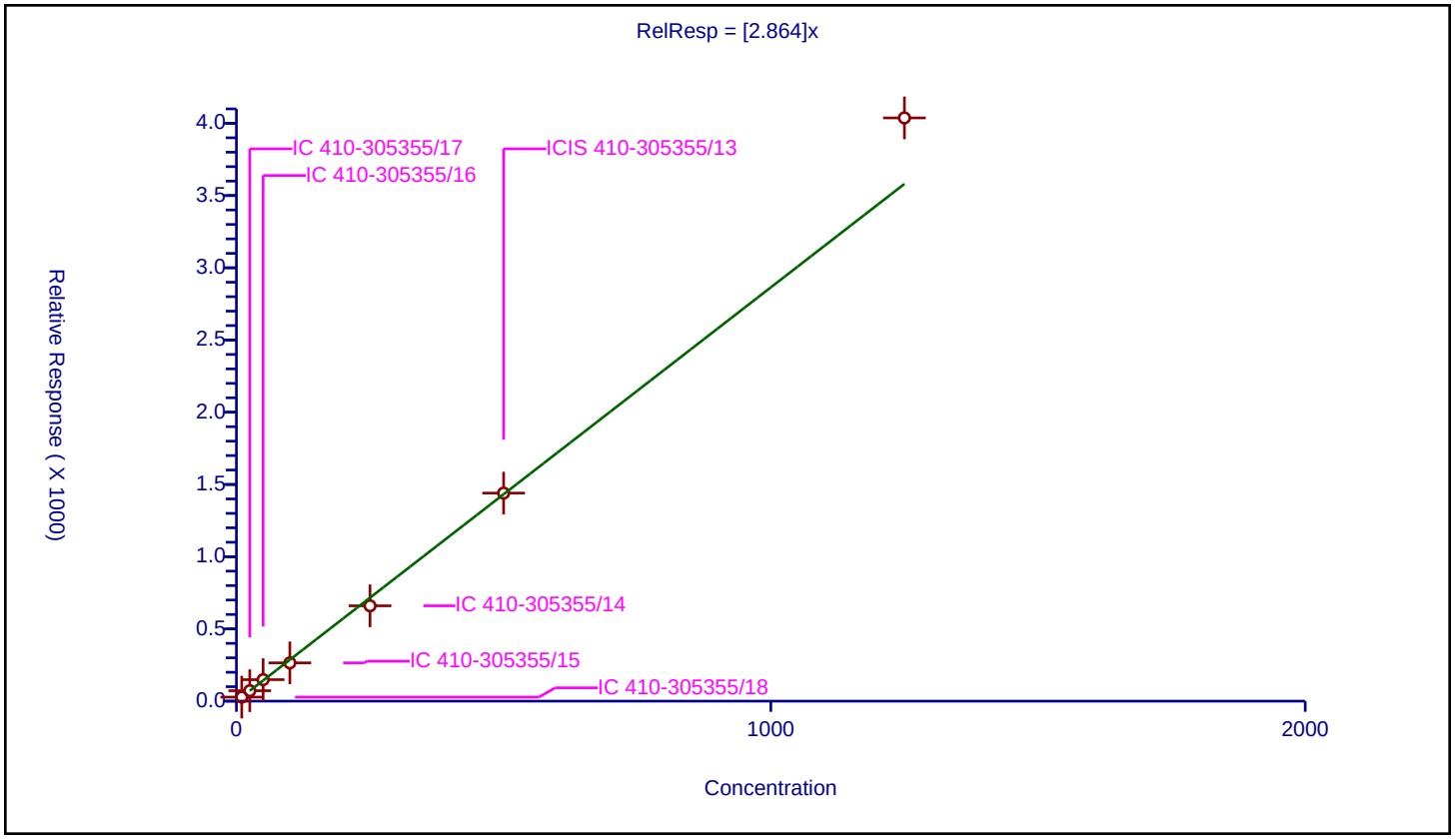
Curve Coefficients

Intercept:	0
Slope:	2.864

Error Coefficients

Standard Error:	4140000
Relative Standard Error:	7.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	10.000173	27.878764	50.0	127685.0	2.787828	Y
2	IC 410-305355/17	25.000433	72.212299	50.0	127650.0	2.888442	Y
3	IC 410-305355/16	50.000867	148.680823	50.0	129740.0	2.973565	Y
4	IC 410-305355/15	100.001733	265.02214	50.0	135500.0	2.650175	Y
5	IC 410-305355/14	250.004333	659.988963	50.0	130469.0	2.63991	Y
6	ICIS 410-305355/13	500.008665	1440.267873	50.0	130547.0	2.880486	Y
7	IC 410-305355/12	1250.021663	4037.540469	50.0	114286.0	3.229976	Y



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Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

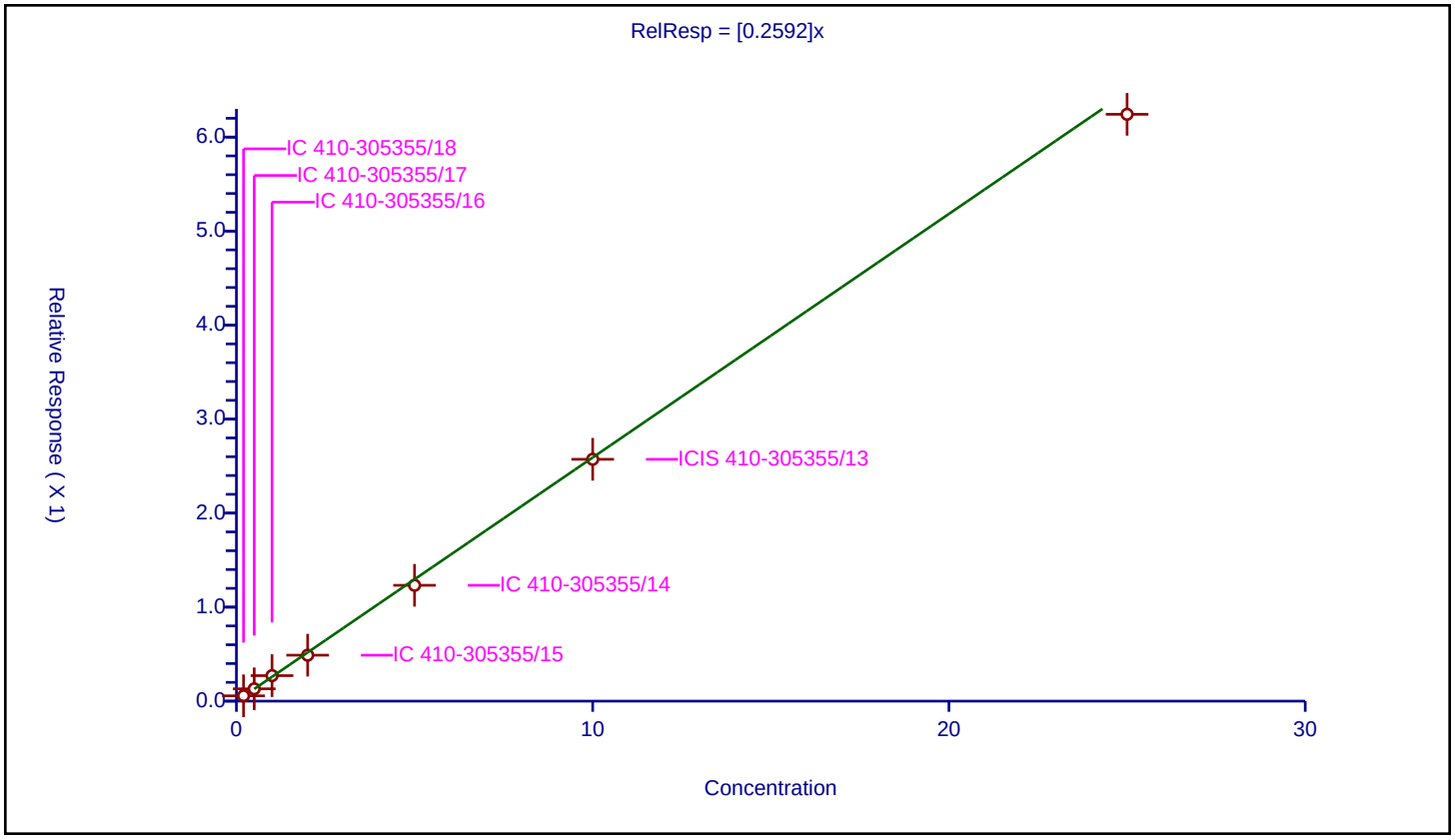
Curve Coefficients

Intercept:	0
Slope:	0.2592

Error Coefficients

Standard Error:	675000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.056537	10.0	2357937.0	0.282684	Y
2	IC 410-305355/17	0.5	0.131064	10.0	2400580.0	0.262128	Y
3	IC 410-305355/16	1.0	0.271382	10.0	2385384.0	0.271382	Y
4	IC 410-305355/15	2.0	0.488991	10.0	2337590.0	0.244495	Y
5	IC 410-305355/14	5.0	1.232272	10.0	2362863.0	0.246454	Y
6	ICIS 410-305355/13	10.0	2.572658	10.0	2376313.0	0.257266	Y
7	IC 410-305355/12	25.0	6.242484	10.0	2406079.0	0.249699	Y



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Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

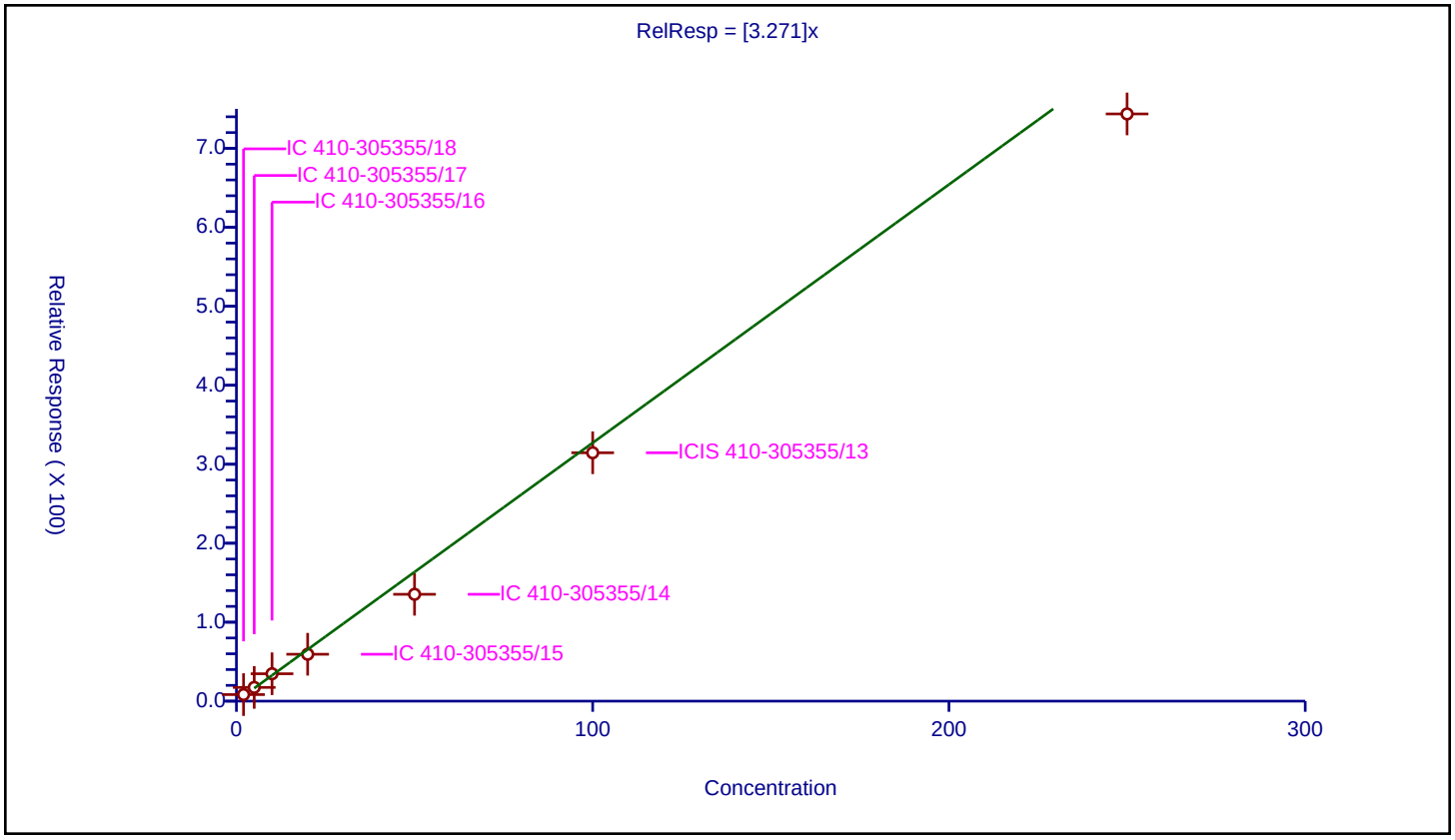
Curve Coefficients

Intercept:	0
Slope:	3.271

Error Coefficients

Standard Error:	788000
Relative Standard Error:	14.7
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.965

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	2.0	8.311861	50.0	127685.0	4.155931	Y
2	IC 410-305355/17	5.0	17.392088	50.0	127650.0	3.478418	Y
3	IC 410-305355/16	10.0	34.675505	50.0	129740.0	3.46755	Y
4	IC 410-305355/15	20.0	59.390037	50.0	135500.0	2.969502	Y
5	IC 410-305355/14	50.0	135.291525	50.0	130469.0	2.705831	Y
6	ICIS 410-305355/13	100.0	314.544953	50.0	130547.0	3.14545	Y
7	IC 410-305355/12	250.0	743.631766	50.0	114286.0	2.974527	Y



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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

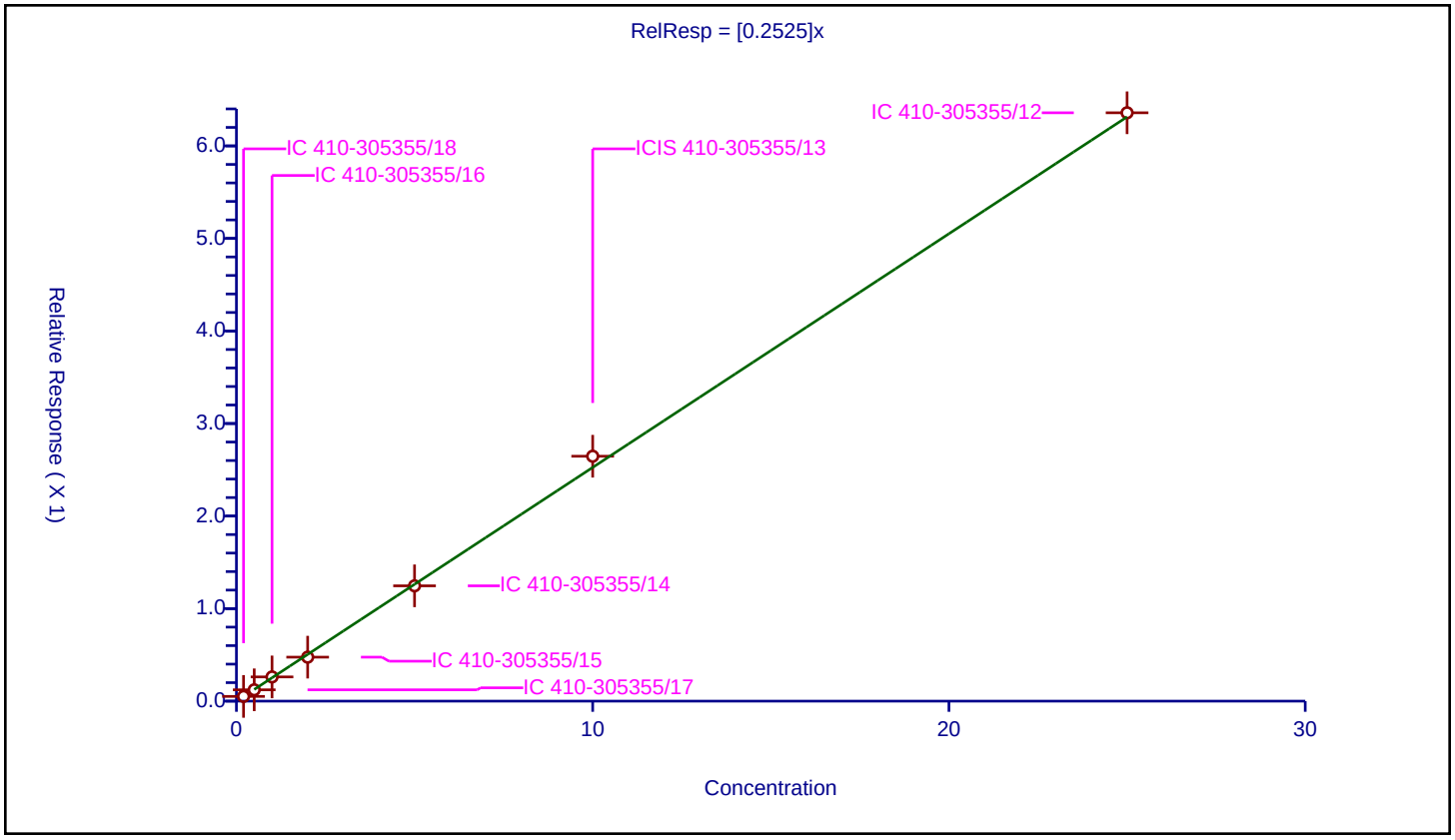
Curve Coefficients

Intercept:	0
Slope:	0.2525

Error Coefficients

Standard Error:	688000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.051036	10.0	2357937.0	0.255181	Y
2	IC 410-305355/17	0.5	0.122525	10.0	2400580.0	0.245049	Y
3	IC 410-305355/16	1.0	0.261715	10.0	2385384.0	0.261715	Y
4	IC 410-305355/15	2.0	0.475301	10.0	2337590.0	0.237651	Y
5	IC 410-305355/14	5.0	1.246128	10.0	2362863.0	0.249226	Y
6	ICIS 410-305355/13	10.0	2.646718	10.0	2376313.0	0.264672	Y
7	IC 410-305355/12	25.0	6.357992	10.0	2406079.0	0.25432	Y



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Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

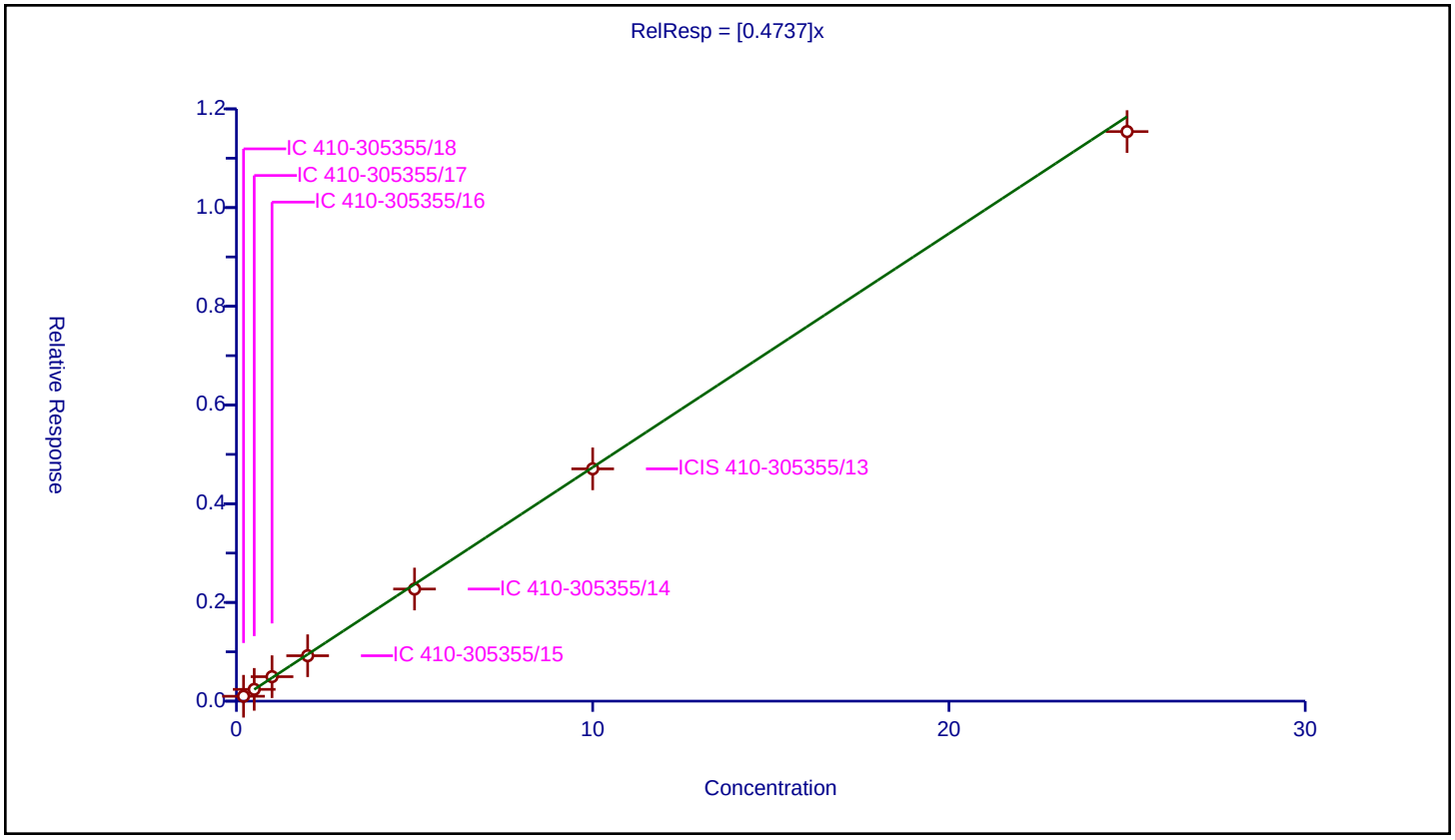
Curve Coefficients

Intercept:	0
Slope:	0.4737

Error Coefficients

Standard Error:	1250000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.099252	10.0	2357937.0	0.49626	Y
2	IC 410-305355/17	0.5	0.23868	10.0	2400580.0	0.47736	Y
3	IC 410-305355/16	1.0	0.495618	10.0	2385384.0	0.495618	Y
4	IC 410-305355/15	2.0	0.920546	10.0	2337590.0	0.460273	Y
5	IC 410-305355/14	5.0	2.271604	10.0	2362863.0	0.454321	Y
6	ICIS 410-305355/13	10.0	4.706754	10.0	2376313.0	0.470675	Y
7	IC 410-305355/12	25.0	11.540369	10.0	2406079.0	0.461615	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

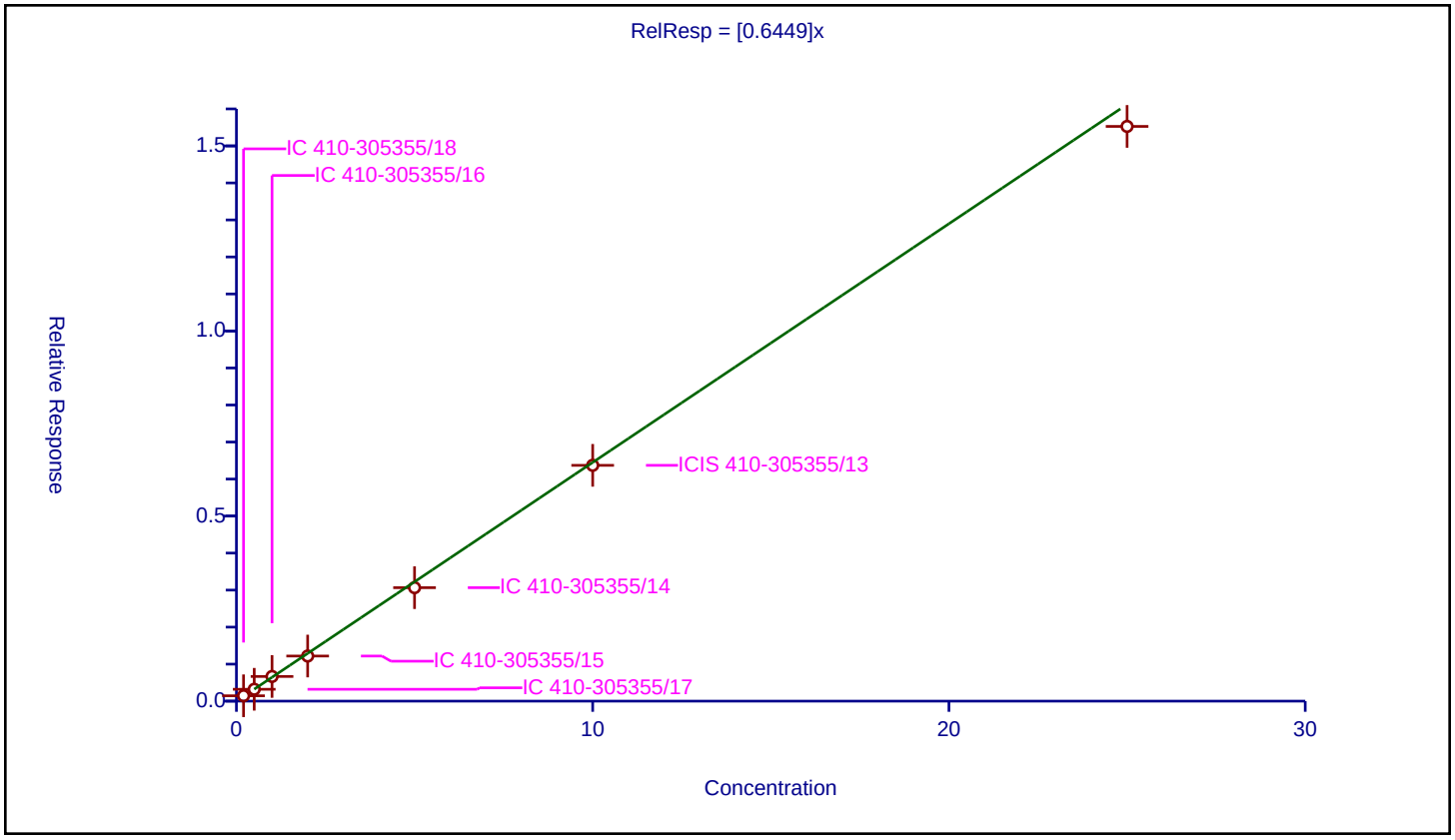
Curve Coefficients

Intercept:	0
Slope:	0.6449

Error Coefficients

Standard Error:	1680000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.145059	10.0	2357937.0	0.725295	Y
2	IC 410-305355/17	0.5	0.320598	10.0	2400580.0	0.641195	Y
3	IC 410-305355/16	1.0	0.666916	10.0	2385384.0	0.666916	Y
4	IC 410-305355/15	2.0	1.218682	10.0	2337590.0	0.609341	Y
5	IC 410-305355/14	5.0	3.065764	10.0	2362863.0	0.613153	Y
6	ICIS 410-305355/13	10.0	6.370617	10.0	2376313.0	0.637062	Y
7	IC 410-305355/12	25.0	15.526627	10.0	2406079.0	0.621065	Y



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Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

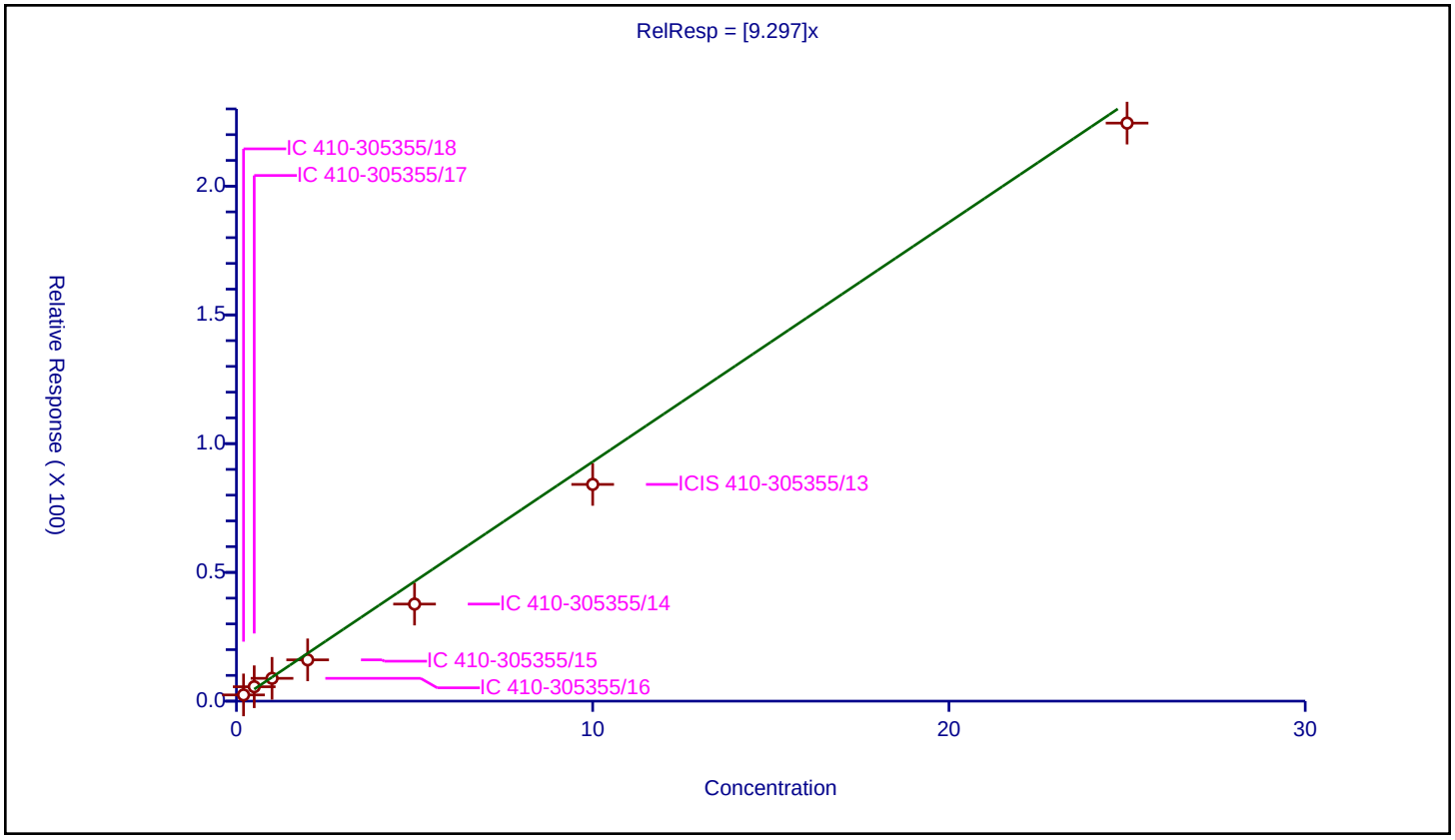
Curve Coefficients

Intercept:	0
Slope:	9.297

Error Coefficients

Standard Error:	232000
Relative Standard Error:	18.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.944

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	2.415319	50.0	127685.0	12.076595	Y
2	IC 410-305355/17	0.5	5.595378	50.0	127650.0	11.190756	Y
3	IC 410-305355/16	1.0	8.858486	50.0	129740.0	8.858486	Y
4	IC 410-305355/15	2.0	16.035793	50.0	135500.0	8.017897	Y
5	IC 410-305355/14	5.0	37.697077	50.0	130469.0	7.539415	Y
6	ICIS 410-305355/13	10.0	84.165856	50.0	130547.0	8.416586	Y
7	IC 410-305355/12	25.0	224.482439	50.0	114286.0	8.979298	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

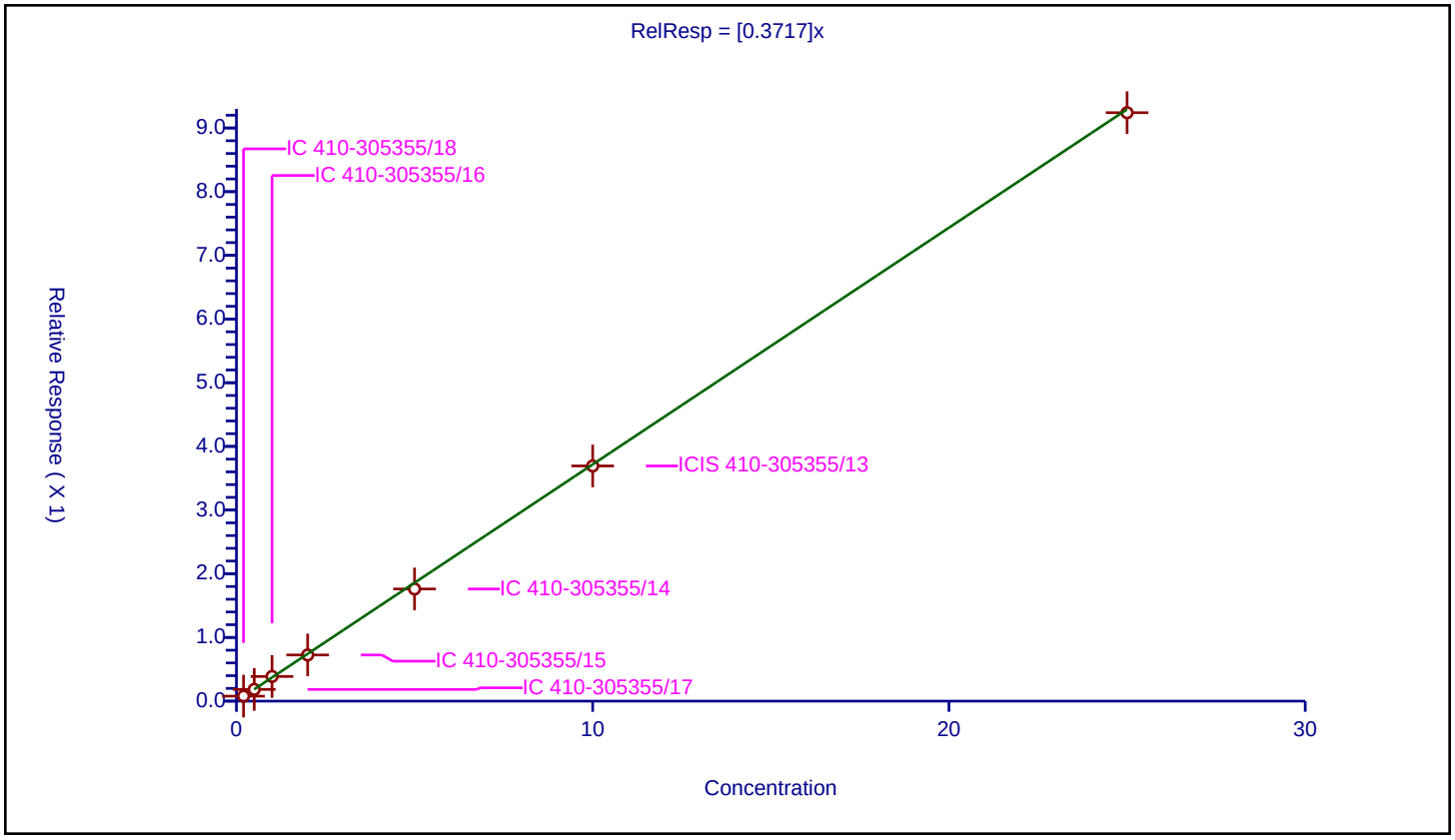
Curve Coefficients

Intercept:	0
Slope:	0.3717

Error Coefficients

Standard Error:	994000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.078522	10.0	2357937.0	0.39261	Y
2	IC 410-305355/17	0.5	0.184093	10.0	2400580.0	0.368186	Y
3	IC 410-305355/16	1.0	0.387564	10.0	2385384.0	0.387564	Y
4	IC 410-305355/15	2.0	0.724965	10.0	2337590.0	0.362482	Y
5	IC 410-305355/14	5.0	1.761414	10.0	2362863.0	0.352283	Y
6	ICIS 410-305355/13	10.0	3.693045	10.0	2376313.0	0.369304	Y
7	IC 410-305355/12	25.0	9.240499	10.0	2406079.0	0.36962	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

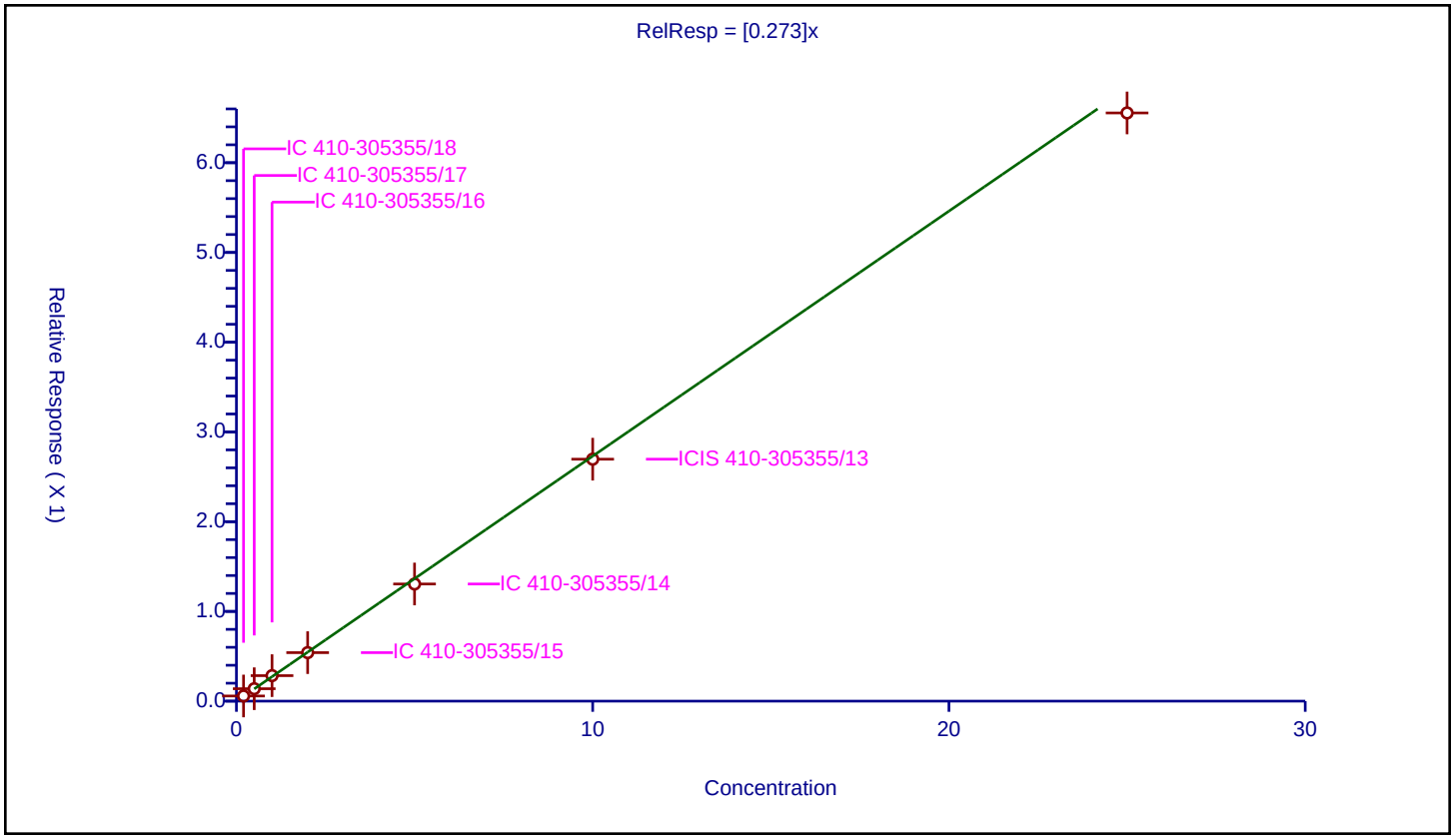
Curve Coefficients

Intercept:	0
Slope:	0.273

Error Coefficients

Standard Error:	709000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.057355	10.0	2357937.0	0.286776	Y
2	IC 410-305355/17	0.5	0.138554	10.0	2400580.0	0.277108	Y
3	IC 410-305355/16	1.0	0.284055	10.0	2385384.0	0.284055	Y
4	IC 410-305355/15	2.0	0.540719	10.0	2337590.0	0.27036	Y
5	IC 410-305355/14	5.0	1.305624	10.0	2362863.0	0.261125	Y
6	ICIS 410-305355/13	10.0	2.696274	10.0	2376313.0	0.269627	Y
7	IC 410-305355/12	25.0	6.555009	10.0	2406079.0	0.2622	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

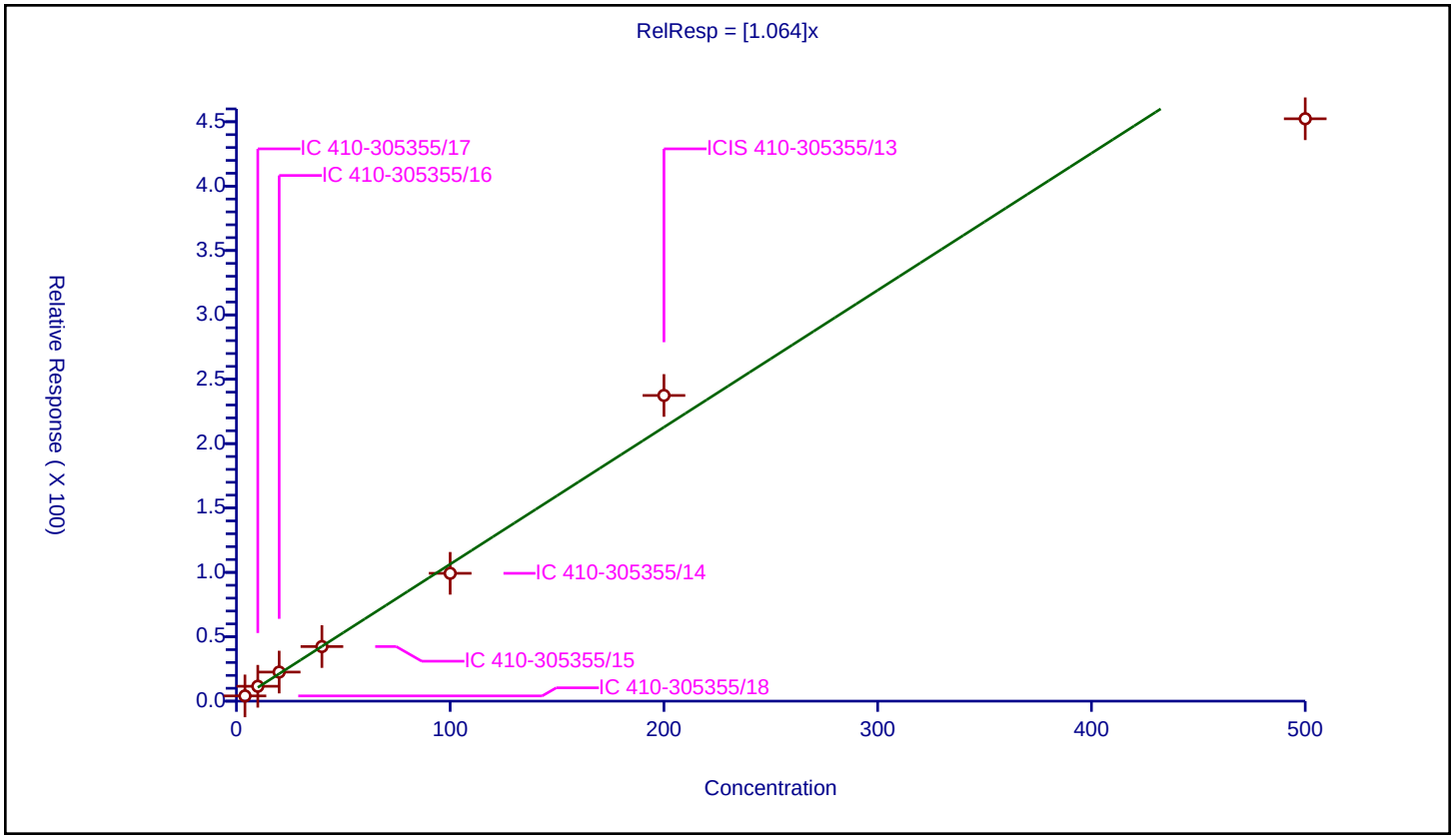
Curve Coefficients

Intercept:	0
Slope:	1.064

Error Coefficients

Standard Error:	506000
Relative Standard Error:	9.4
Correlation Coefficient:	0.964
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	4.0	4.071347	50.0	127685.0	1.017837	Y
2	IC 410-305355/17	10.0	11.553858	50.0	127650.0	1.155386	Y
3	IC 410-305355/16	20.0	22.582473	50.0	129740.0	1.129124	Y
4	IC 410-305355/15	40.0	42.391882	50.0	135500.0	1.059797	Y
5	IC 410-305355/14	100.0	99.283355	50.0	130469.0	0.992834	Y
6	ICIS 410-305355/13	200.0	237.429815	50.0	130547.0	1.187149	Y
7	IC 410-305355/12	500.0	452.334932	50.0	114286.0	0.90467	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

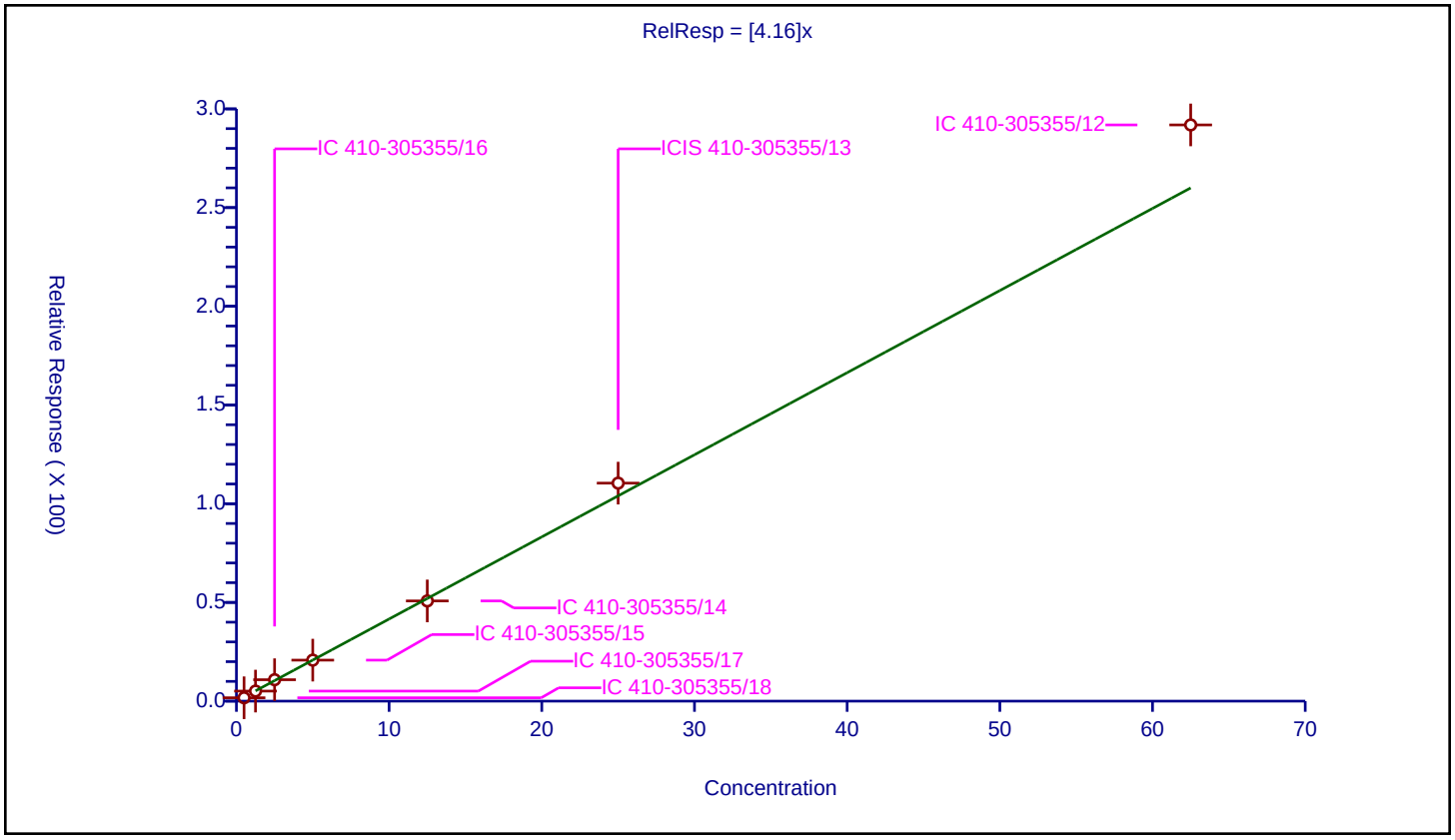
Curve Coefficients

Intercept:	0
Slope:	4.16

Error Coefficients

Standard Error:	303000
Relative Standard Error:	9.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.5	1.703019	50.0	127685.0	3.406038	Y
2	IC 410-305355/17	1.25	5.088523	50.0	127650.0	4.070819	Y
3	IC 410-305355/16	2.5	10.847464	50.0	129740.0	4.338986	Y
4	IC 410-305355/15	5.0	20.763469	50.0	135500.0	4.152694	Y
5	IC 410-305355/14	12.5	50.759567	50.0	130469.0	4.060765	Y
6	ICIS 410-305355/13	25.0	110.434556	50.0	130547.0	4.417382	Y
7	IC 410-305355/12	62.5	291.881333	50.0	114286.0	4.670101	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

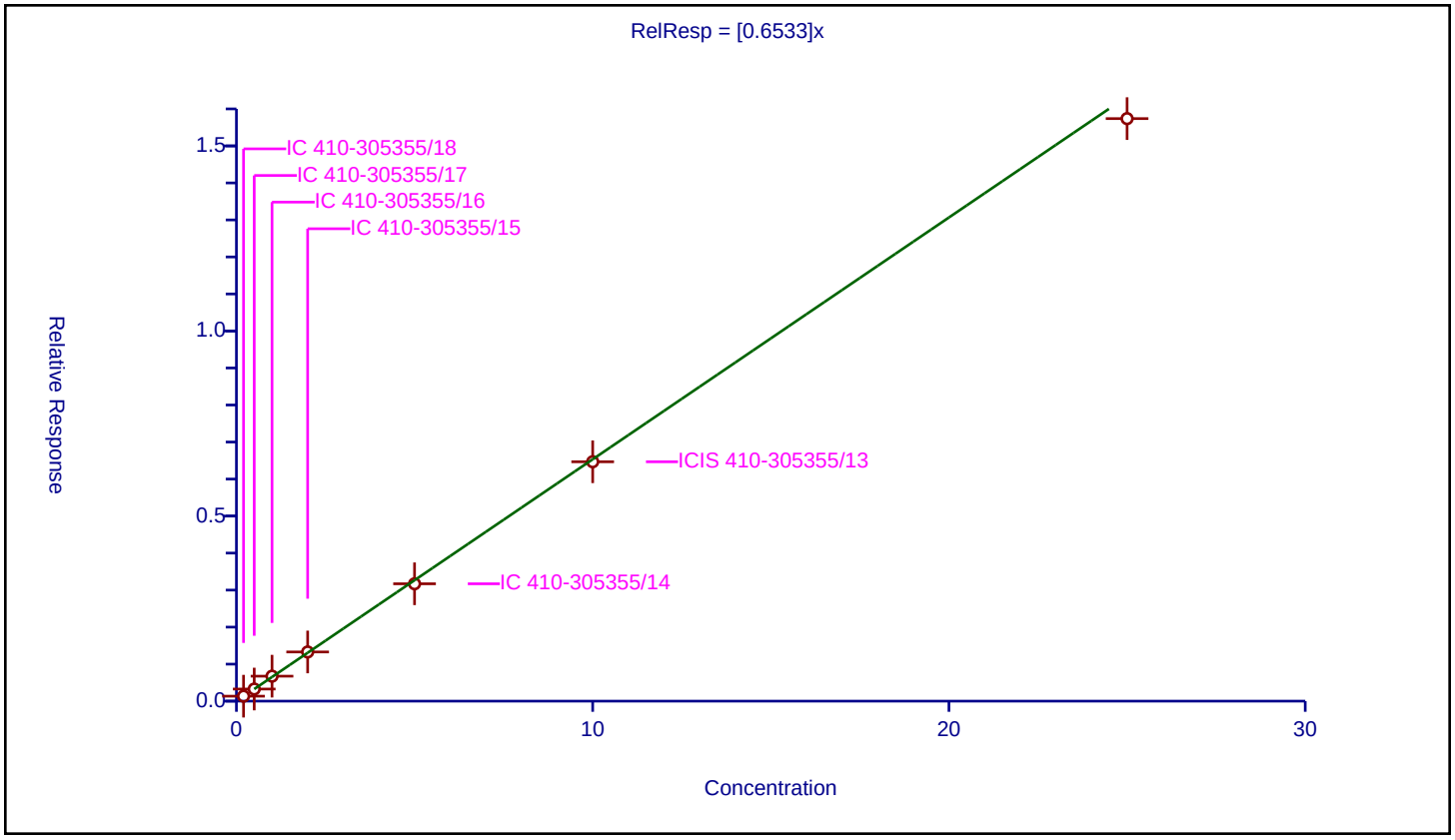
Curve Coefficients

Intercept:	0
Slope:	0.6533

Error Coefficients

Standard Error:	1700000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.134015	10.0	2357937.0	0.670077	Y
2	IC 410-305355/17	0.5	0.326971	10.0	2400580.0	0.653942	Y
3	IC 410-305355/16	1.0	0.674793	10.0	2385384.0	0.674793	Y
4	IC 410-305355/15	2.0	1.328411	10.0	2337590.0	0.664205	Y
5	IC 410-305355/14	5.0	3.170548	10.0	2362863.0	0.63411	Y
6	ICIS 410-305355/13	10.0	6.466951	10.0	2376313.0	0.646695	Y
7	IC 410-305355/12	25.0	15.737285	10.0	2406079.0	0.629491	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

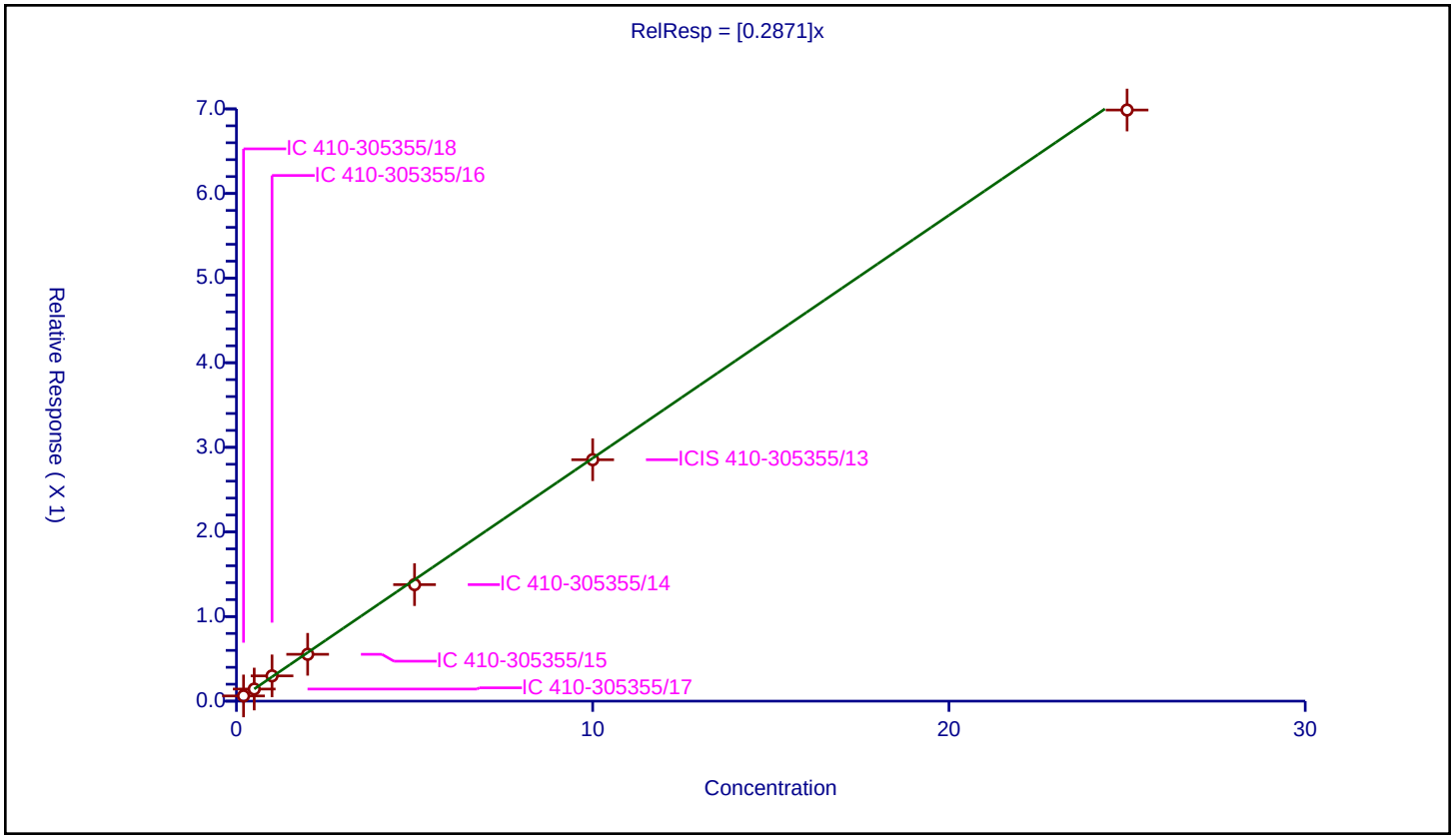
Curve Coefficients

Intercept:	0
Slope:	0.2871

Error Coefficients

Standard Error:	754000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.061664	10.0	2357937.0	0.30832	Y
2	IC 410-305355/17	0.5	0.14302	10.0	2400580.0	0.286039	Y
3	IC 410-305355/16	1.0	0.298702	10.0	2385384.0	0.298702	Y
4	IC 410-305355/15	2.0	0.553455	10.0	2337590.0	0.276727	Y
5	IC 410-305355/14	5.0	1.377007	10.0	2362863.0	0.275401	Y
6	ICIS 410-305355/13	10.0	2.853589	10.0	2376313.0	0.285359	Y
7	IC 410-305355/12	25.0	6.986903	10.0	2406079.0	0.279476	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

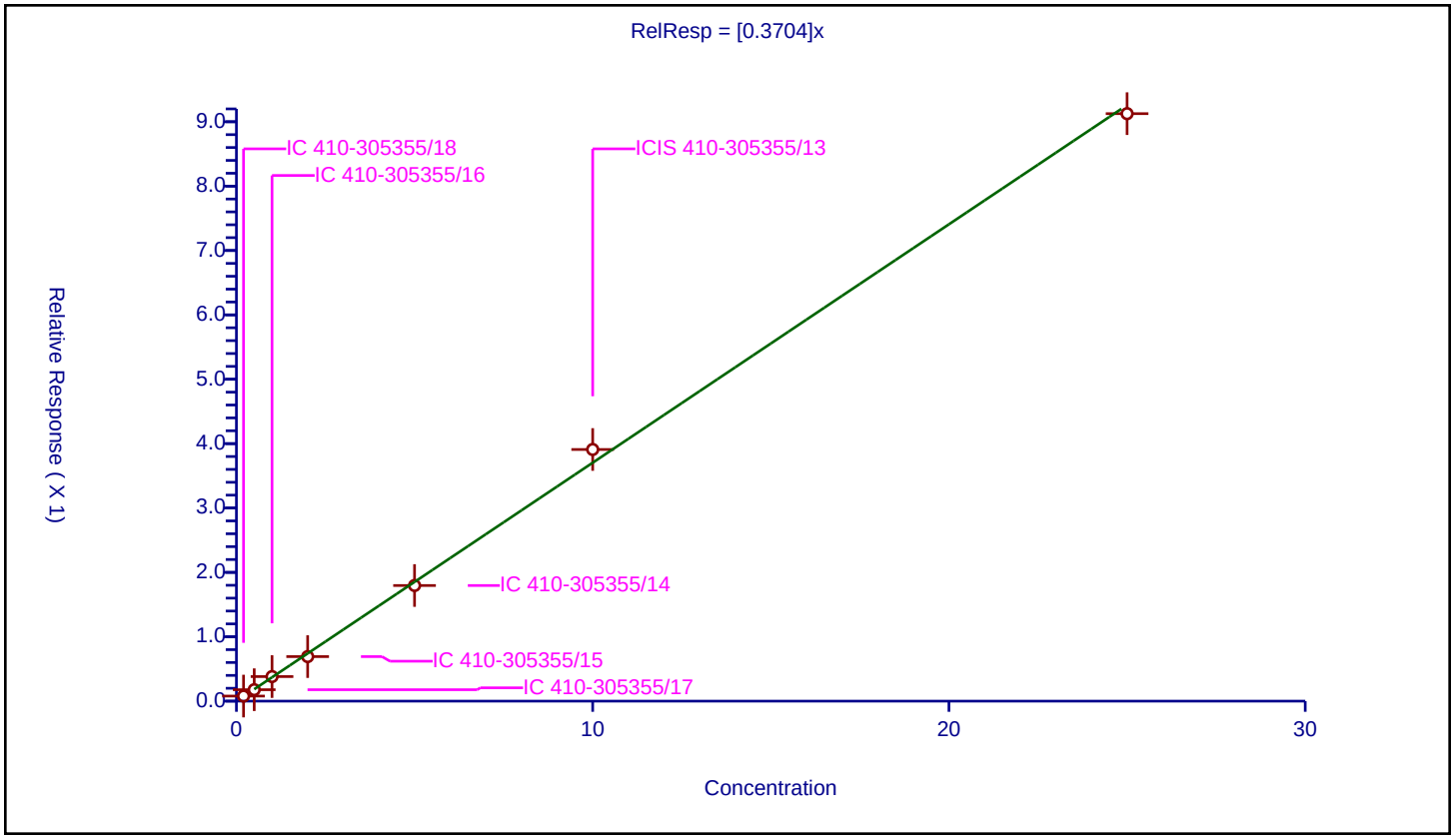
Curve Coefficients

Intercept:	0
Slope:	0.3704

Error Coefficients

Standard Error:	992000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.078789	10.0	2357937.0	0.393946	Y
2	IC 410-305355/17	0.5	0.177799	10.0	2400580.0	0.355597	Y
3	IC 410-305355/16	1.0	0.381783	10.0	2385384.0	0.381783	Y
4	IC 410-305355/15	2.0	0.692089	10.0	2337590.0	0.346044	Y
5	IC 410-305355/14	5.0	1.796376	10.0	2362863.0	0.359275	Y
6	ICIS 410-305355/13	10.0	3.909119	10.0	2376313.0	0.390912	Y
7	IC 410-305355/12	25.0	9.126138	10.0	2406079.0	0.365046	Y



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Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

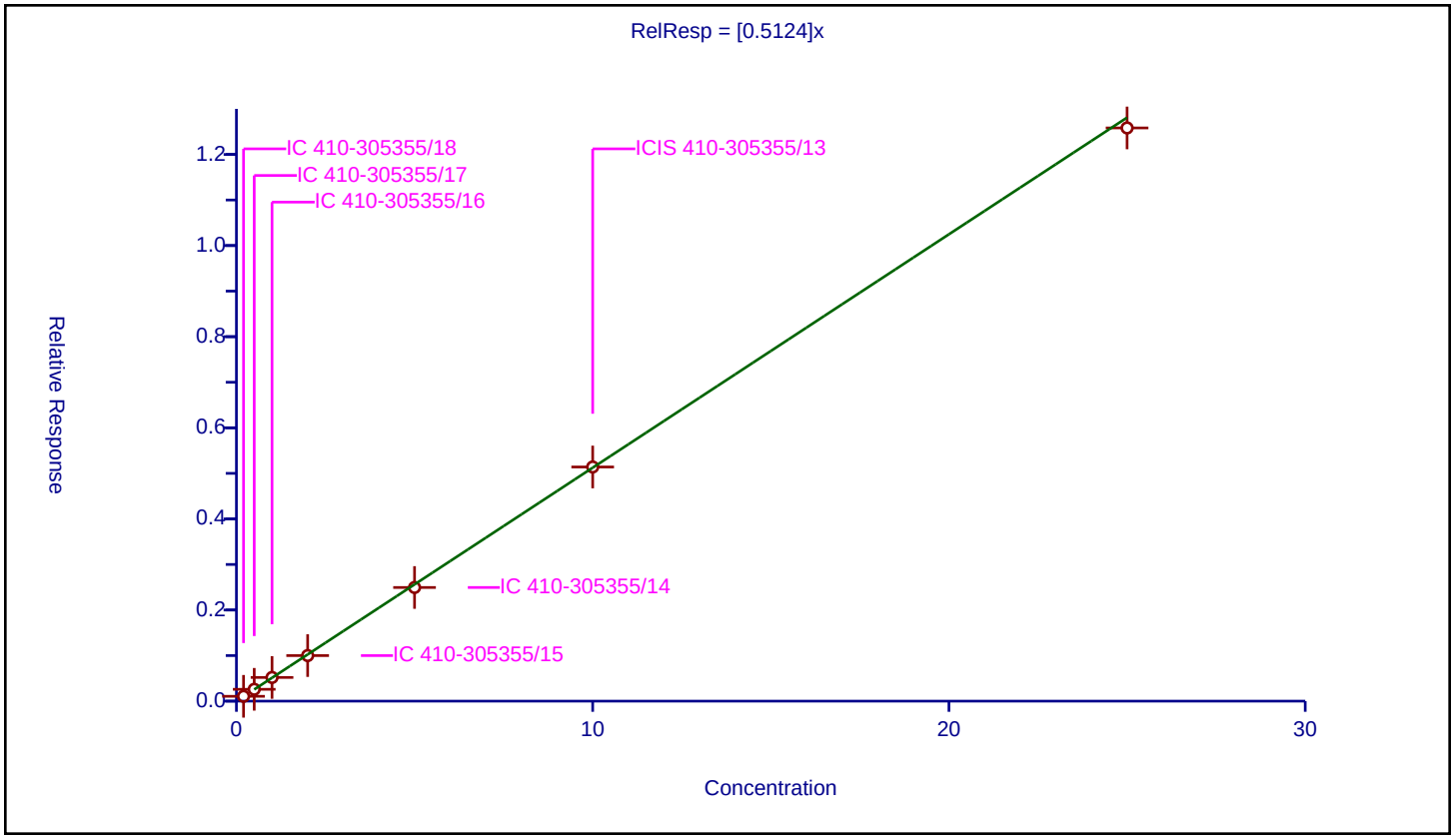
Curve Coefficients

Intercept:	0
Slope:	0.5124

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.106101	10.0	2357937.0	0.530506	Y
2	IC 410-305355/17	0.5	0.260025	10.0	2400580.0	0.520049	Y
3	IC 410-305355/16	1.0	0.519795	10.0	2385384.0	0.519795	Y
4	IC 410-305355/15	2.0	1.000175	10.0	2337590.0	0.500088	Y
5	IC 410-305355/14	5.0	2.494812	10.0	2362863.0	0.498962	Y
6	ICIS 410-305355/13	10.0	5.139803	10.0	2376313.0	0.51398	Y
7	IC 410-305355/12	25.0	12.581981	10.0	2406079.0	0.503279	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

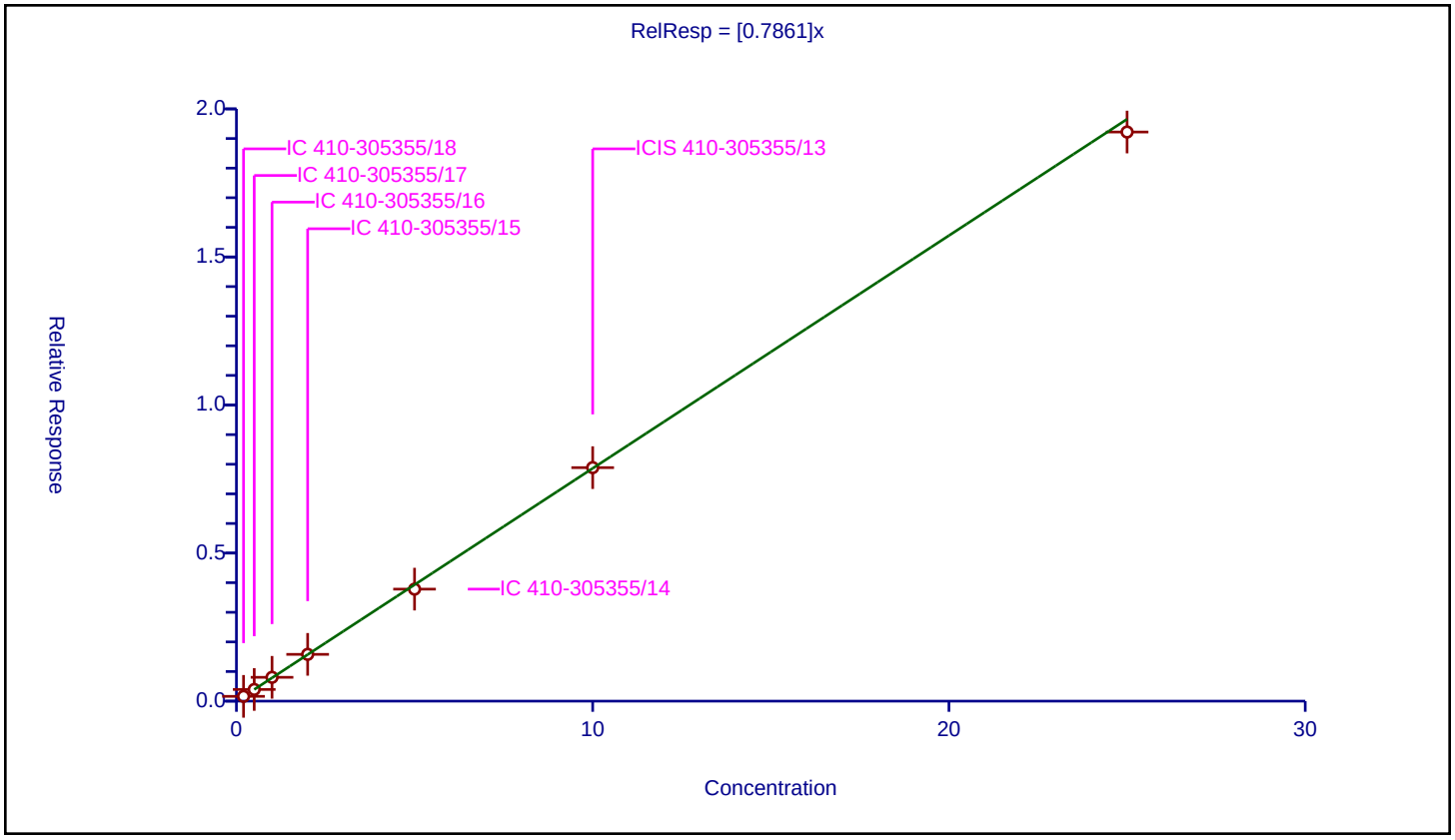
Curve Coefficients

Intercept:	0
Slope:	0.7861

Error Coefficients

Standard Error:	2080000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.161251	10.0	2357937.0	0.806256	Y
2	IC 410-305355/17	0.5	0.394009	10.0	2400580.0	0.788018	Y
3	IC 410-305355/16	1.0	0.804944	10.0	2385384.0	0.804944	Y
4	IC 410-305355/15	2.0	1.579789	10.0	2337590.0	0.789895	Y
5	IC 410-305355/14	5.0	3.782263	10.0	2362863.0	0.756453	Y
6	ICIS 410-305355/13	10.0	7.885565	10.0	2376313.0	0.788556	Y
7	IC 410-305355/12	25.0	19.219701	10.0	2406079.0	0.768788	Y



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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

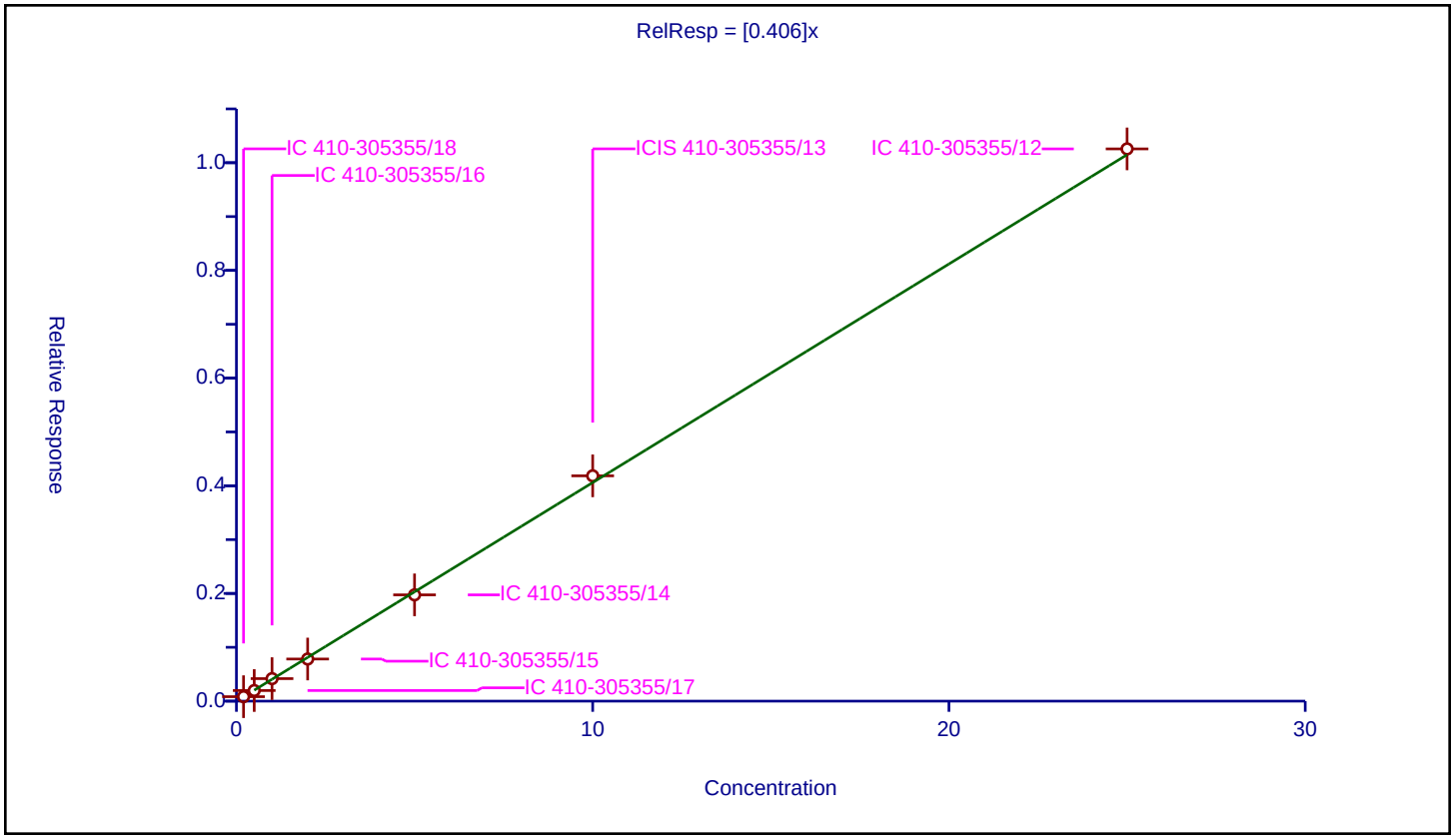
Curve Coefficients

Intercept:	0
Slope:	0.406

Error Coefficients

Standard Error:	1110000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.082861	10.0	2357937.0	0.414303	Y
2	IC 410-305355/17	0.5	0.197331	10.0	2400580.0	0.394663	Y
3	IC 410-305355/16	1.0	0.418067	10.0	2385384.0	0.418067	Y
4	IC 410-305355/15	2.0	0.782481	10.0	2337590.0	0.391241	Y
5	IC 410-305355/14	5.0	1.974025	10.0	2362863.0	0.394805	Y
6	ICIS 410-305355/13	10.0	4.184647	10.0	2376313.0	0.418465	Y
7	IC 410-305355/12	25.0	10.256982	10.0	2406079.0	0.410279	Y



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Calibration / Tert-butyl ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

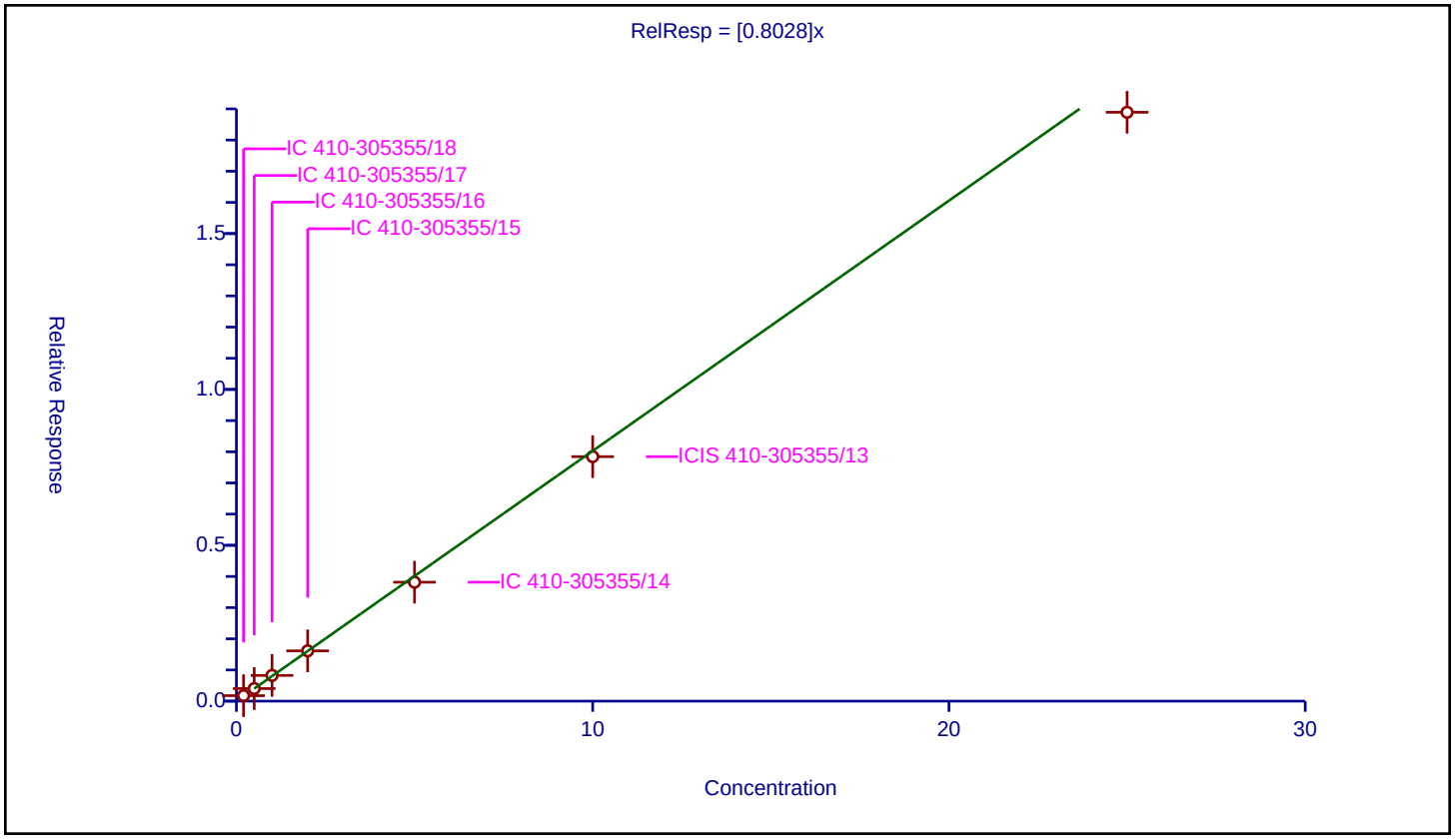
Curve Coefficients

Intercept:	0
Slope:	0.8028

Error Coefficients

Standard Error:	2050000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.175475	10.0	2357937.0	0.877377	Y
2	IC 410-305355/17	0.5	0.403677	10.0	2400580.0	0.807355	Y
3	IC 410-305355/16	1.0	0.824555	10.0	2385384.0	0.824555	Y
4	IC 410-305355/15	2.0	1.613705	10.0	2337590.0	0.806852	Y
5	IC 410-305355/14	5.0	3.815922	10.0	2362863.0	0.763184	Y
6	ICIS 410-305355/13	10.0	7.844589	10.0	2376313.0	0.784459	Y
7	IC 410-305355/12	25.0	18.891337	10.0	2406079.0	0.755653	Y



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Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

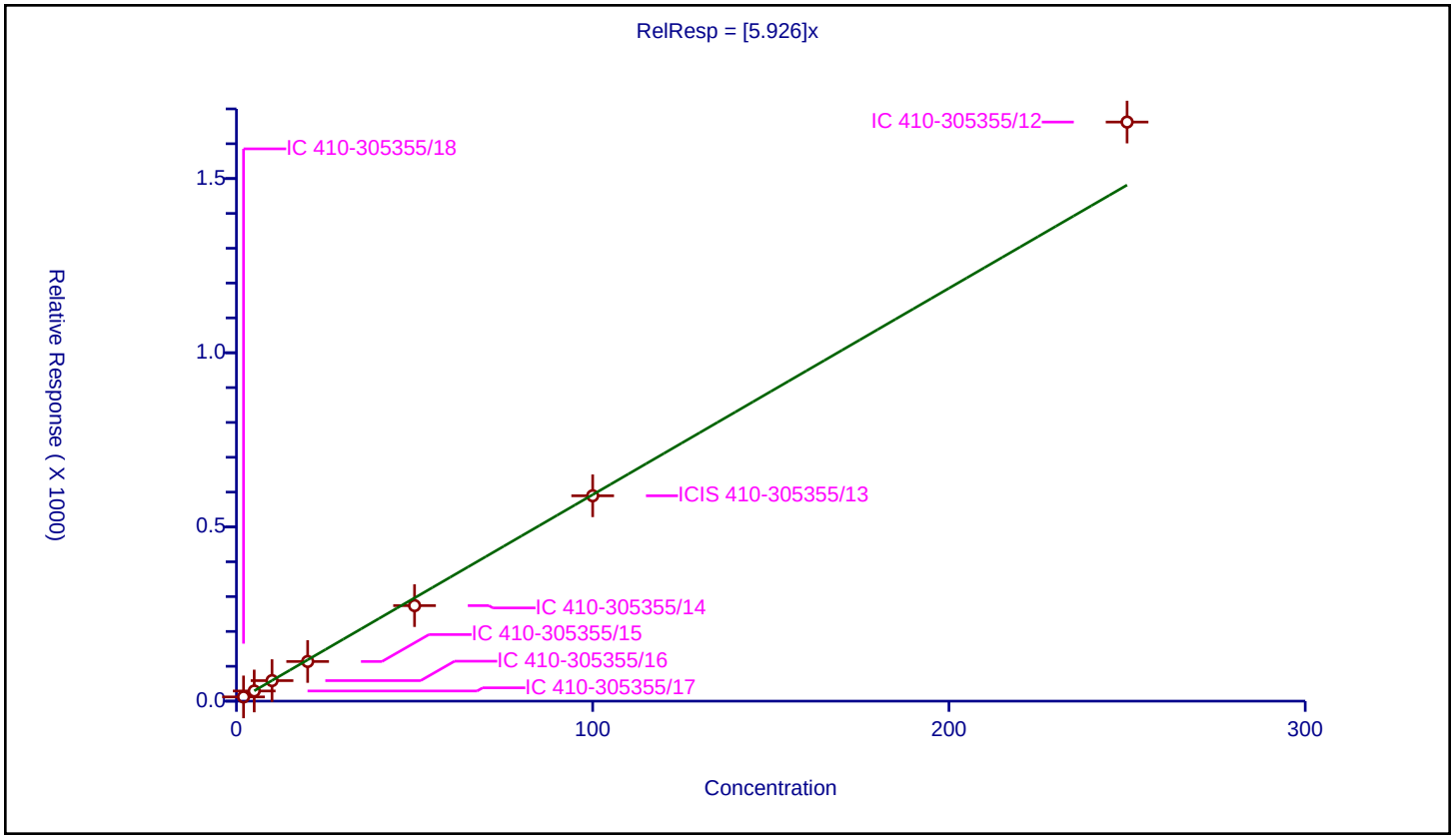
Curve Coefficients

Intercept:	0
Slope:	5.926

Error Coefficients

Standard Error:	1700000
Relative Standard Error:	6.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	2.0	12.089909	50.0	127685.0	6.044954	Y
2	IC 410-305355/17	5.0	29.147278	50.0	127650.0	5.829456	Y
3	IC 410-305355/16	10.0	58.886234	50.0	129740.0	5.888623	Y
4	IC 410-305355/15	20.0	113.830627	50.0	135500.0	5.691531	Y
5	IC 410-305355/14	50.0	274.161295	50.0	130469.0	5.483226	Y
6	ICIS 410-305355/13	100.0	589.502631	50.0	130547.0	5.895026	Y
7	IC 410-305355/12	250.0	1662.265282	50.0	114286.0	6.649061	Y



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Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

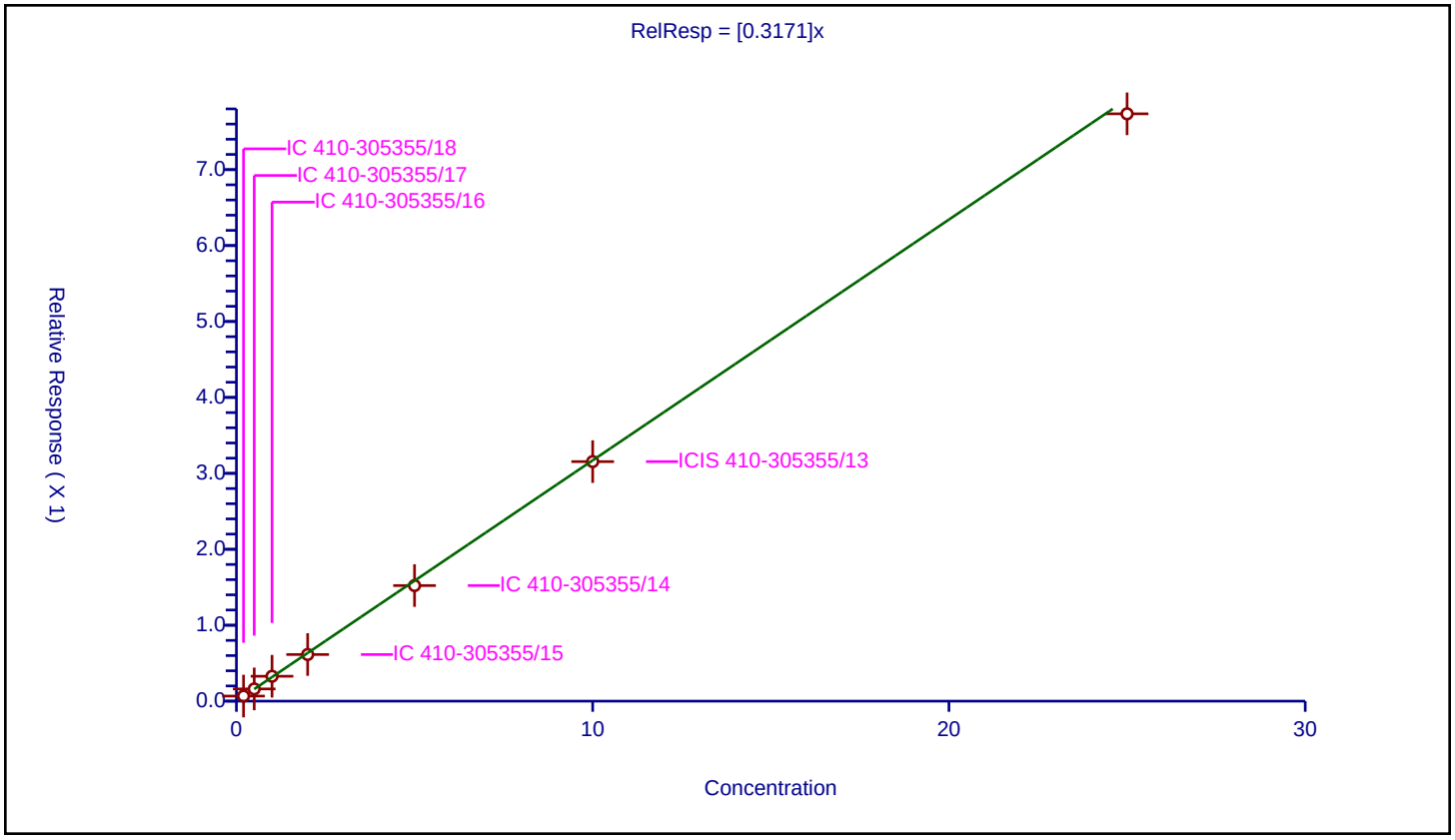
Curve Coefficients

Intercept:	0
Slope:	0.3171

Error Coefficients

Standard Error:	835000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.066724	10.0	2357937.0	0.333618	Y
2	IC 410-305355/17	0.5	0.160936	10.0	2400580.0	0.321872	Y
3	IC 410-305355/16	1.0	0.327968	10.0	2385384.0	0.327968	Y
4	IC 410-305355/15	2.0	0.61391	10.0	2337590.0	0.306955	Y
5	IC 410-305355/14	5.0	1.522124	10.0	2362863.0	0.304425	Y
6	ICIS 410-305355/13	10.0	3.154824	10.0	2376313.0	0.315482	Y
7	IC 410-305355/12	25.0	7.735187	10.0	2406079.0	0.309407	Y



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Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

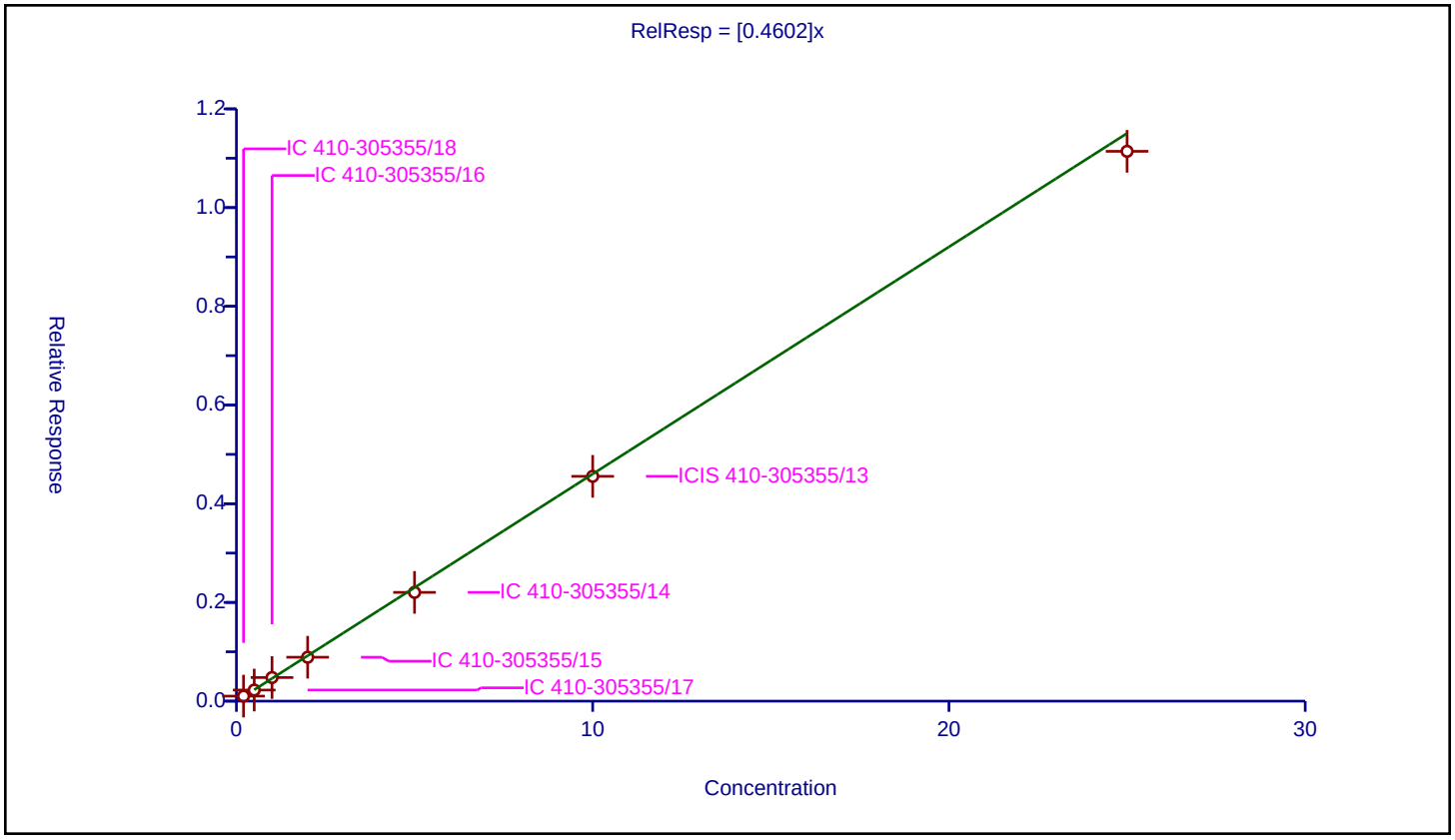
Curve Coefficients

Intercept:	0
Slope:	0.4602

Error Coefficients

Standard Error:	1200000
Relative Standard Error:	5.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.101462	10.0	2357937.0	0.507308	Y
2	IC 410-305355/17	0.5	0.2247	10.0	2400580.0	0.4494	Y
3	IC 410-305355/16	1.0	0.478175	10.0	2385384.0	0.478175	Y
4	IC 410-305355/15	2.0	0.889561	10.0	2337590.0	0.444781	Y
5	IC 410-305355/14	5.0	2.203424	10.0	2362863.0	0.440685	Y
6	ICIS 410-305355/13	10.0	4.554812	10.0	2376313.0	0.455481	Y
7	IC 410-305355/12	25.0	11.140341	10.0	2406079.0	0.445614	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

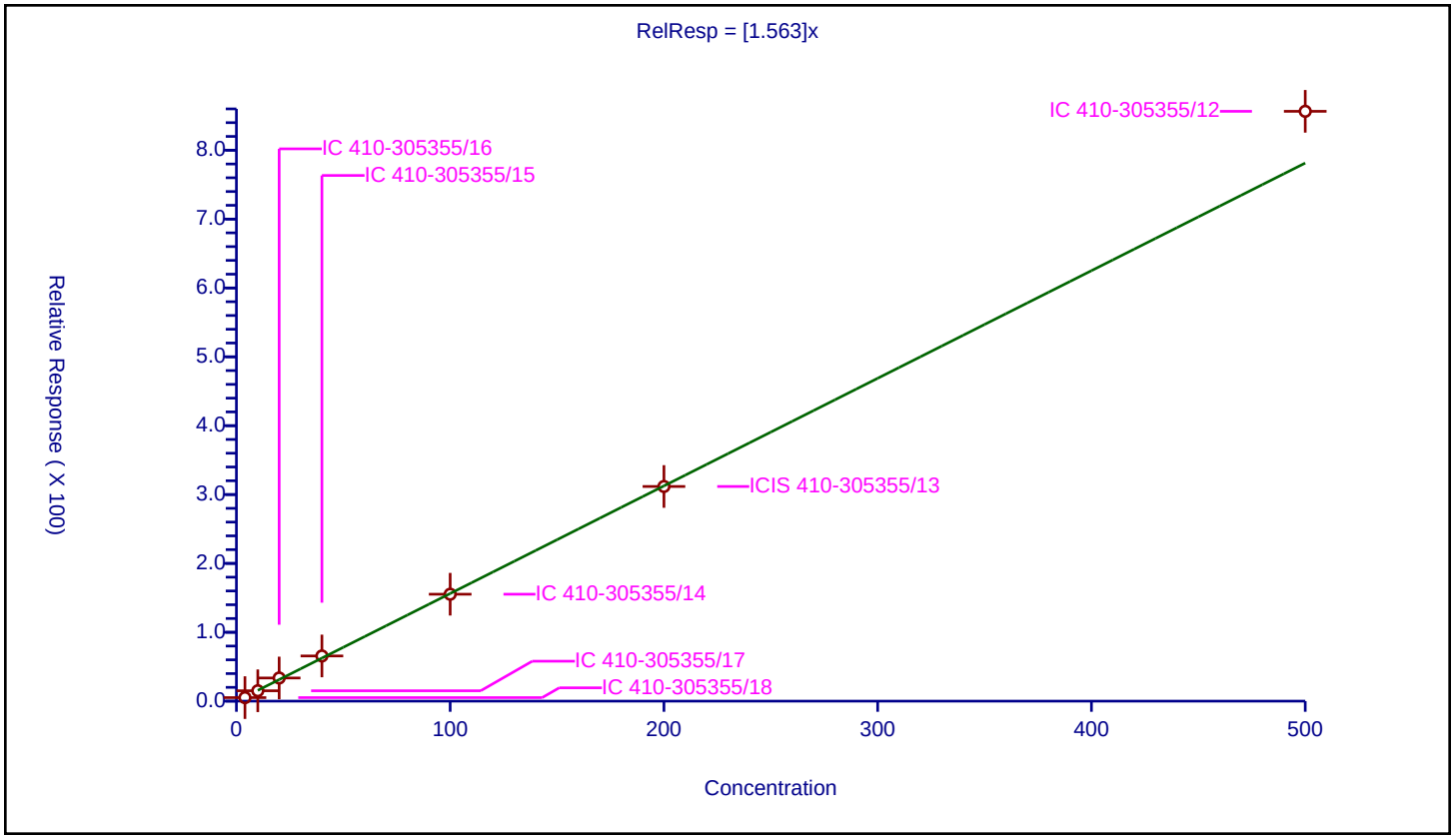
Curve Coefficients

Intercept:	0
Slope:	1.563

Error Coefficients

Standard Error:	885000
Relative Standard Error:	9.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	4.0	5.136077	50.0	127685.0	1.284019	Y
2	IC 410-305355/17	10.0	15.082648	50.0	127650.0	1.508265	Y
3	IC 410-305355/16	20.0	33.641899	50.0	129740.0	1.682095	Y
4	IC 410-305355/15	40.0	65.621402	50.0	135500.0	1.640535	Y
5	IC 410-305355/14	100.0	155.257188	50.0	130469.0	1.552572	Y
6	ICIS 410-305355/13	200.0	311.69732	50.0	130547.0	1.558487	Y
7	IC 410-305355/12	500.0	856.467546	50.0	114286.0	1.712935	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

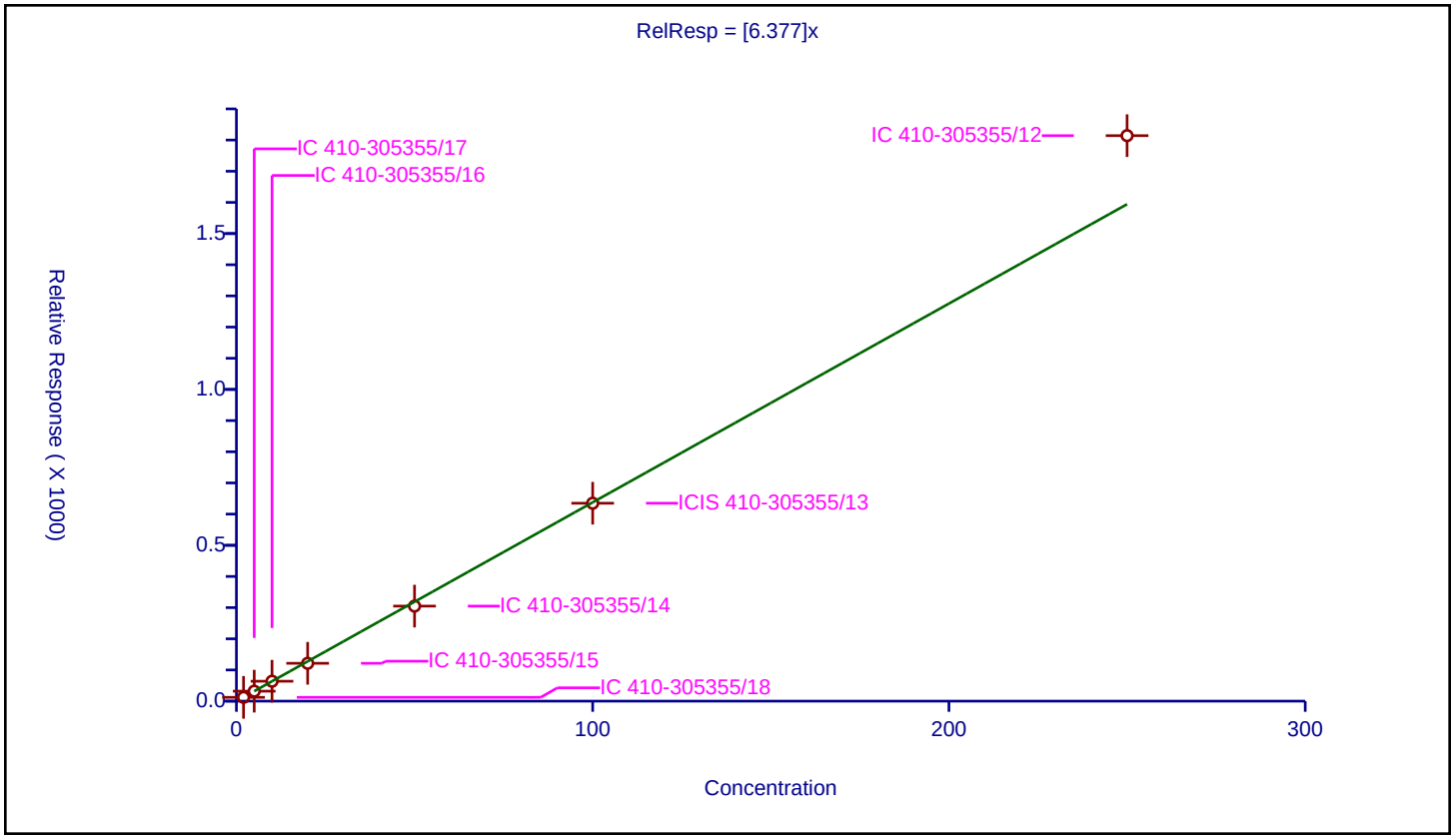
Curve Coefficients

Intercept:	0
Slope:	6.377

Error Coefficients

Standard Error:	1860000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	2.0	12.166269	50.0	127685.0	6.083134	Y
2	IC 410-305355/17	5.0	31.97219	50.0	127650.0	6.394438	Y
3	IC 410-305355/16	10.0	63.881224	50.0	129740.0	6.388122	Y
4	IC 410-305355/15	20.0	121.384871	50.0	135500.0	6.069244	Y
5	IC 410-305355/14	50.0	304.91611	50.0	130469.0	6.098322	Y
6	ICIS 410-305355/13	100.0	634.863689	50.0	130547.0	6.348637	Y
7	IC 410-305355/12	250.0	1814.119402	50.0	114286.0	7.256478	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

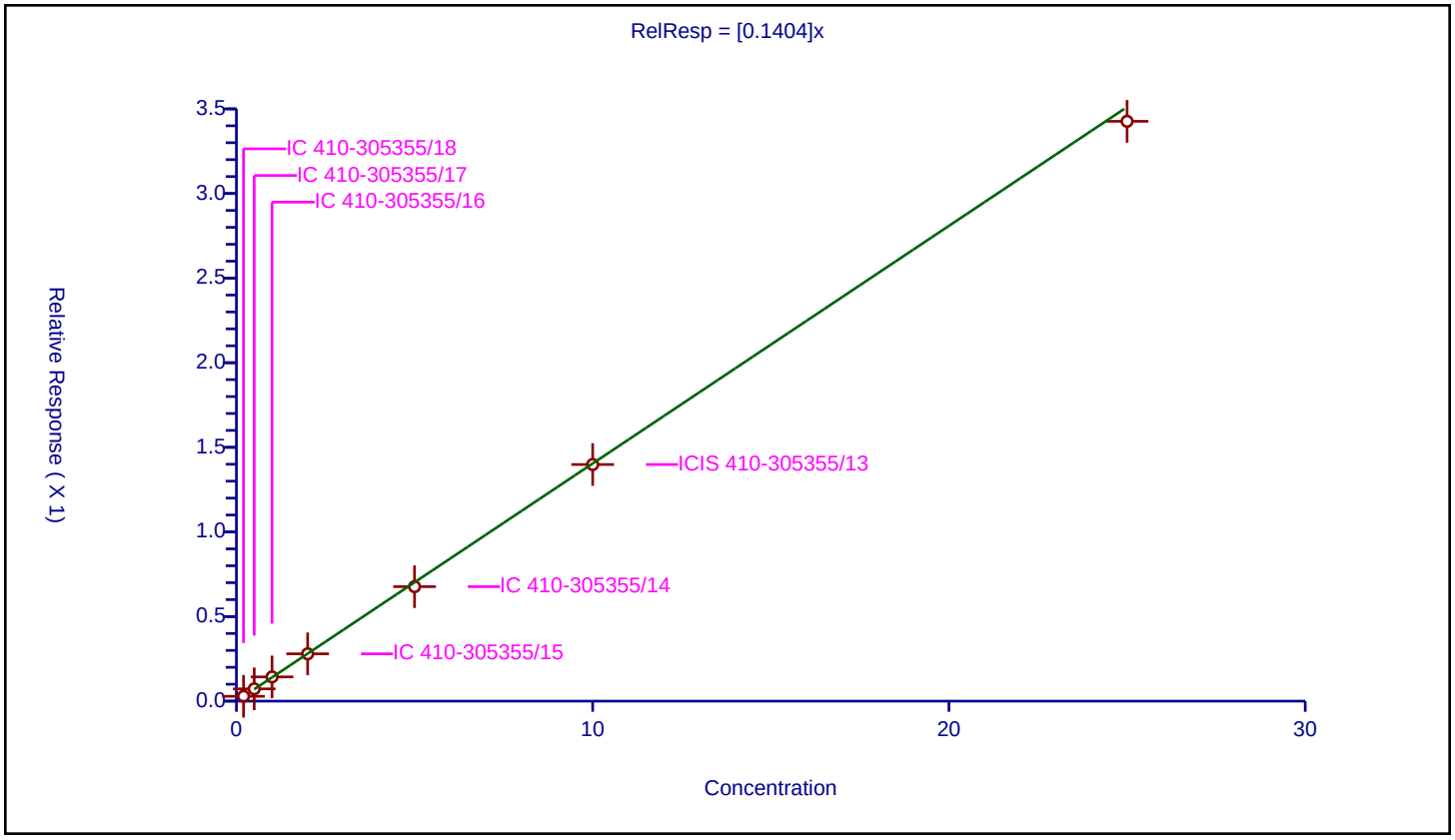
Curve Coefficients

Intercept:	0
Slope:	0.1404

Error Coefficients

Standard Error:	370000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.028576	10.0	2357937.0	0.142879	Y
2	IC 410-305355/17	0.5	0.072553	10.0	2400580.0	0.145107	Y
3	IC 410-305355/16	1.0	0.143101	10.0	2385384.0	0.143101	Y
4	IC 410-305355/15	2.0	0.279561	10.0	2337590.0	0.139781	Y
5	IC 410-305355/14	5.0	0.676633	10.0	2362863.0	0.135327	Y
6	ICIS 410-305355/13	10.0	1.398427	10.0	2376313.0	0.139843	Y
7	IC 410-305355/12	25.0	3.426729	10.0	2406079.0	0.137069	Y



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Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

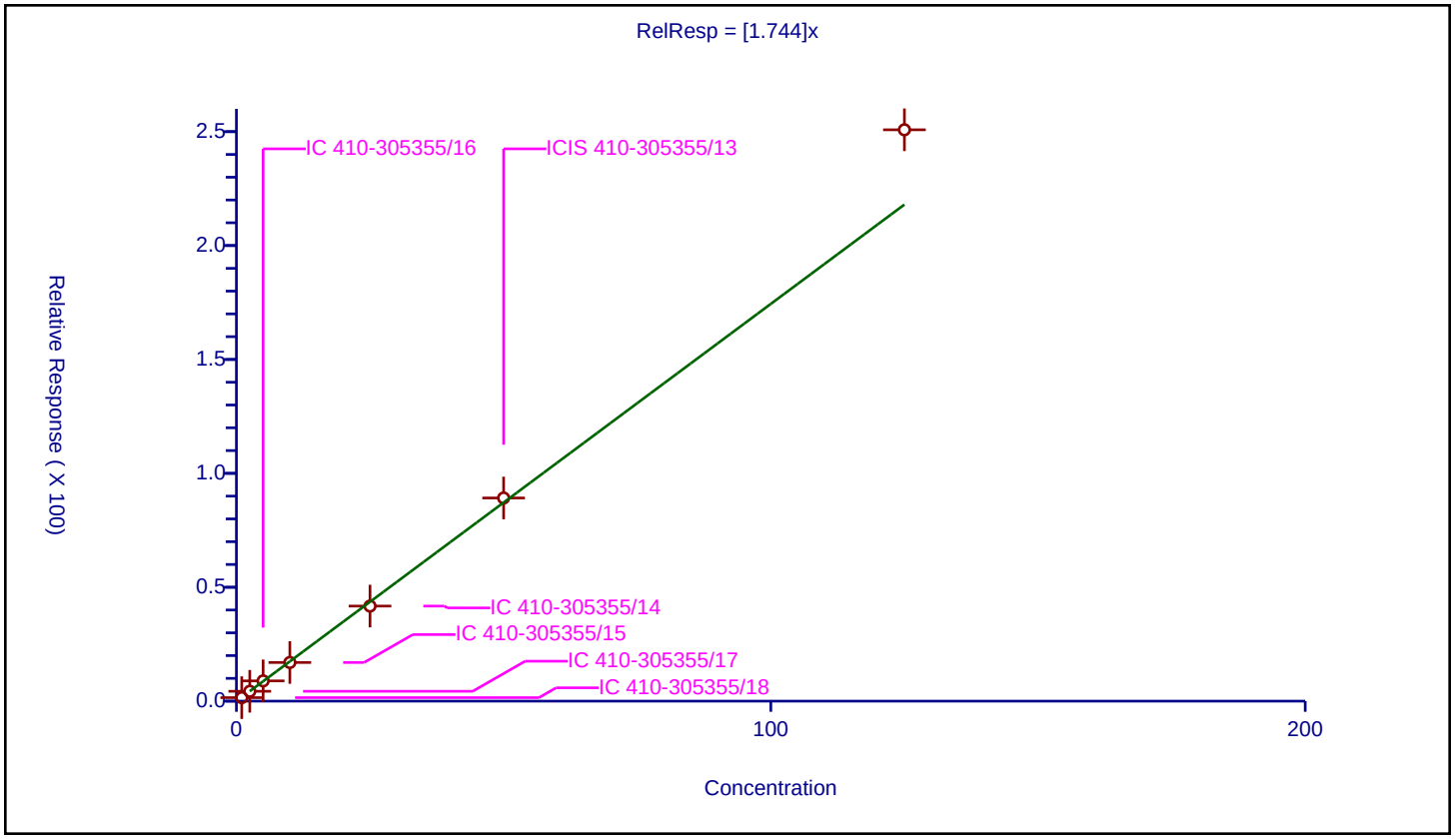
Curve Coefficients

Intercept:	0
Slope:	1.744

Error Coefficients

Standard Error:	257000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	1.0	1.541685	50.0	127685.0	1.541685	Y
2	IC 410-305355/17	2.5	4.326283	50.0	127650.0	1.730513	Y
3	IC 410-305355/16	5.0	8.895098	50.0	129740.0	1.77902	Y
4	IC 410-305355/15	10.0	16.966421	50.0	135500.0	1.696642	Y
5	IC 410-305355/14	25.0	41.741716	50.0	130469.0	1.669669	Y
6	ICIS 410-305355/13	50.0	89.179376	50.0	130547.0	1.783588	Y
7	IC 410-305355/12	125.0	250.816373	50.0	114286.0	2.006531	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

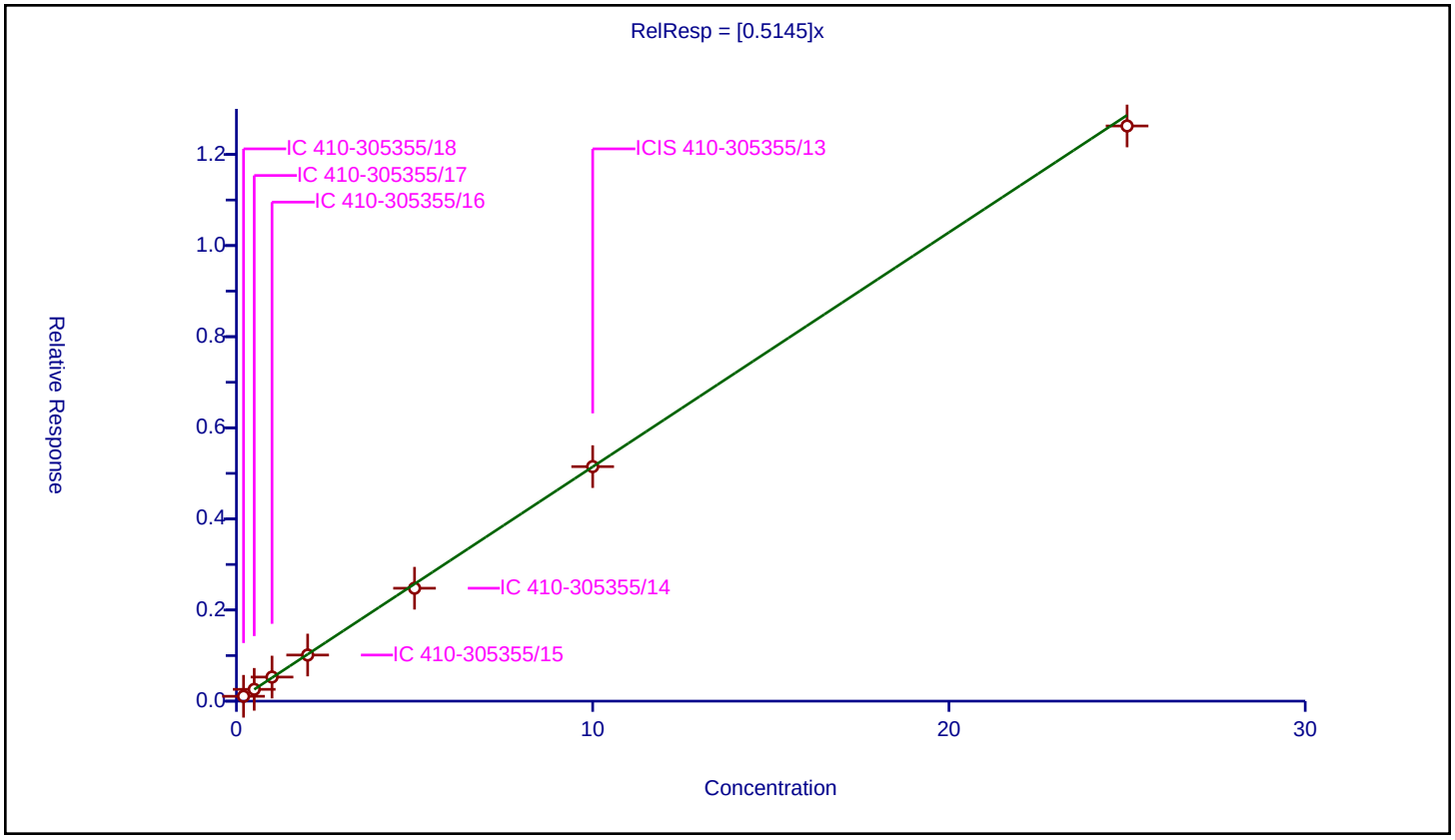
Curve Coefficients

Intercept:	0
Slope:	0.5145

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.106419	10.0	2357937.0	0.532096	Y
2	IC 410-305355/17	0.5	0.259437	10.0	2400580.0	0.518875	Y
3	IC 410-305355/16	1.0	0.528552	10.0	2385384.0	0.528552	Y
4	IC 410-305355/15	2.0	1.012521	10.0	2337590.0	0.506261	Y
5	IC 410-305355/14	5.0	2.47826	10.0	2362863.0	0.495652	Y
6	ICIS 410-305355/13	10.0	5.14819	10.0	2376313.0	0.514819	Y
7	IC 410-305355/12	25.0	12.625155	10.0	2406079.0	0.505006	Y



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Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

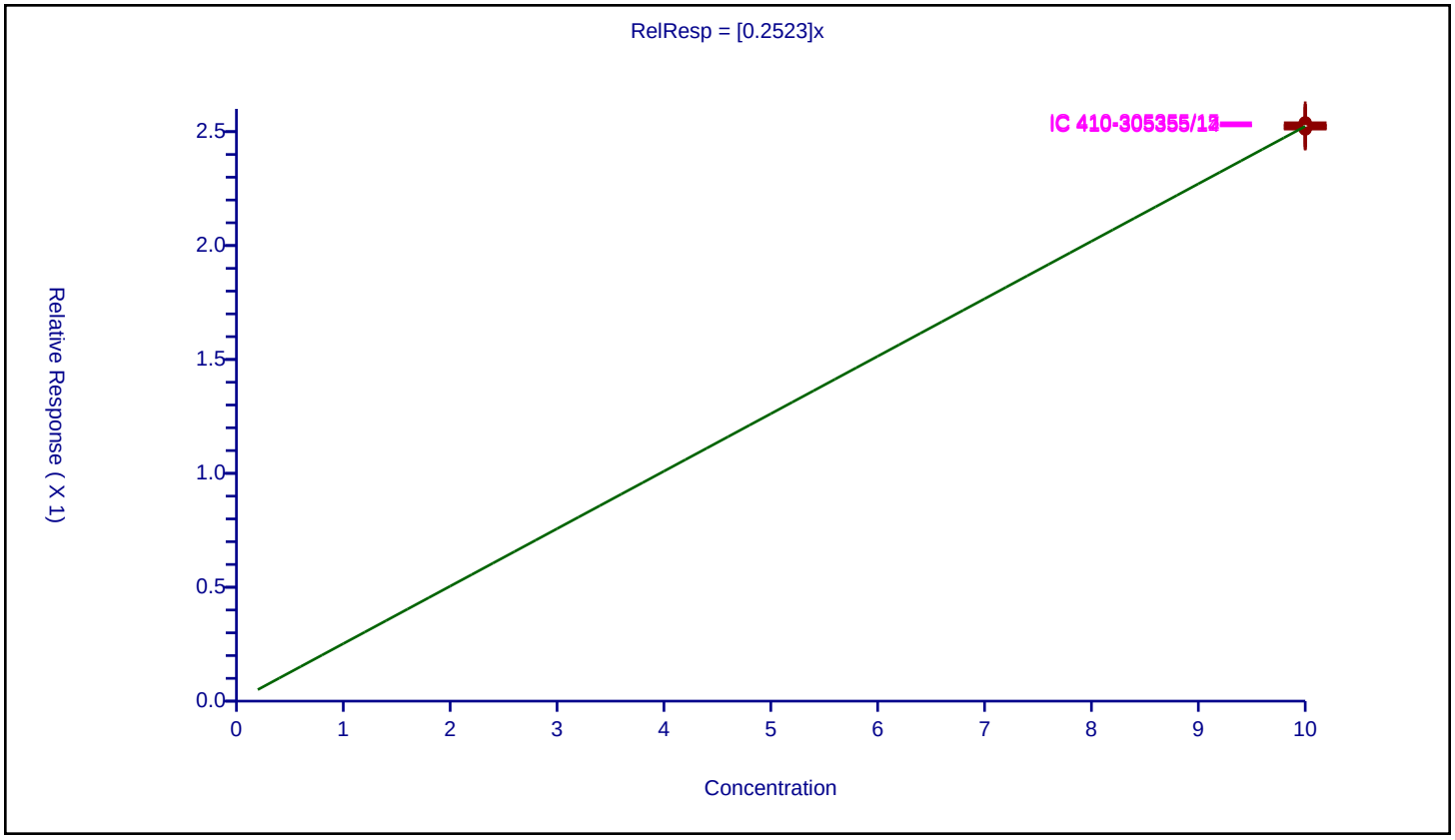
Curve Coefficients

Intercept:	0
Slope:	0.2523

Error Coefficients

Standard Error:	647000
Relative Standard Error:	0.4
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/12	10.0	2.527722	10.0	2406079.0	0.252772	Y
2	ICIS 410-305355/13	10.0	2.515679	10.0	2376313.0	0.251568	Y
3	IC 410-305355/14	10.0	2.525394	10.0	2362863.0	0.252539	Y
4	IC 410-305355/15	10.0	2.539059	10.0	2337590.0	0.253906	Y
5	IC 410-305355/16	10.0	2.511369	10.0	2385384.0	0.251137	Y
6	IC 410-305355/17	10.0	2.528426	10.0	2400580.0	0.252843	Y
7	IC 410-305355/18	10.0	2.516136	10.0	2357937.0	0.251614	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

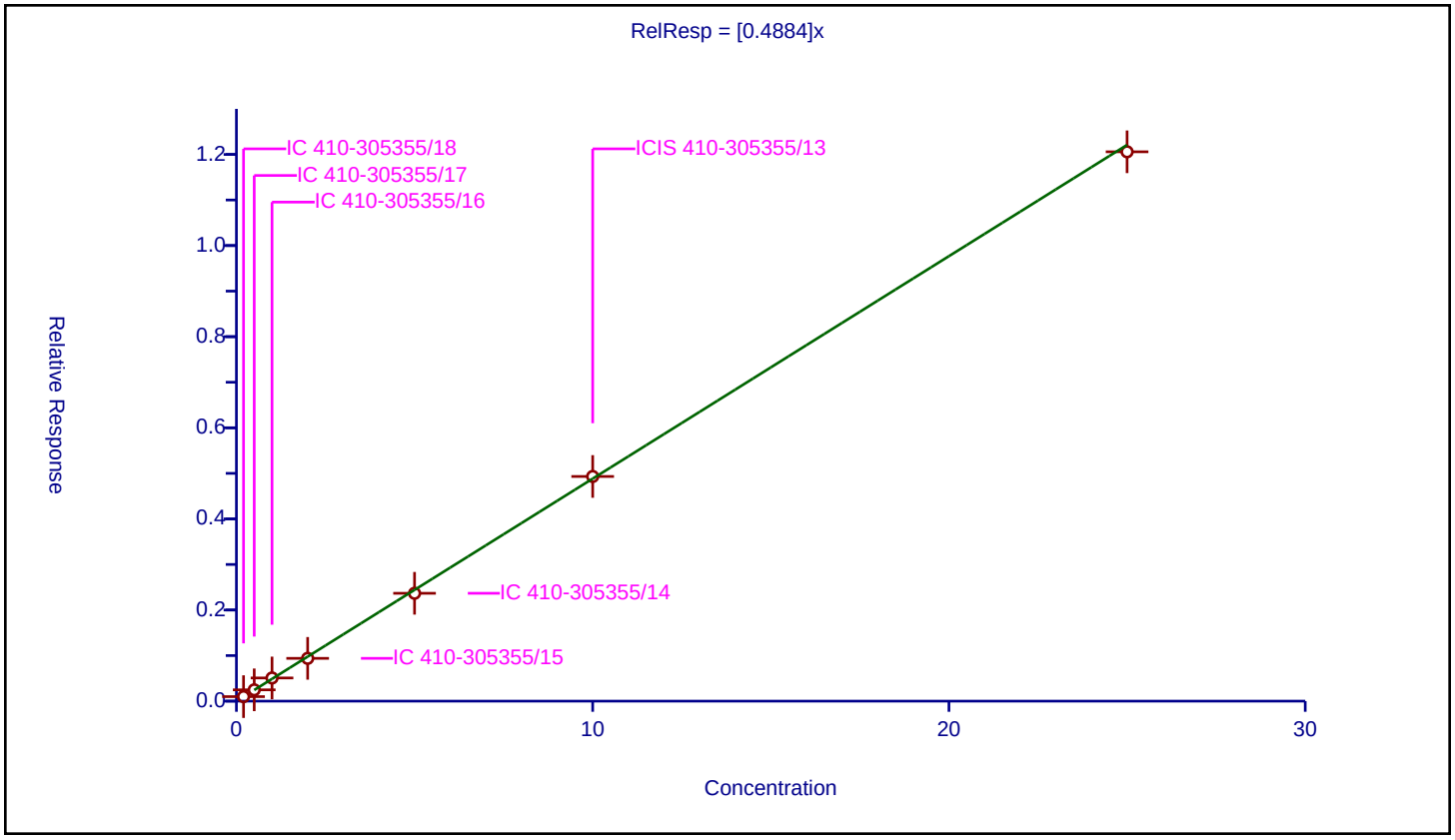
Curve Coefficients

Intercept:	0
Slope:	0.4884

Error Coefficients

Standard Error:	1300000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.099006	10.0	2357937.0	0.49503	Y
2	IC 410-305355/17	0.5	0.248111	10.0	2400580.0	0.496222	Y
3	IC 410-305355/16	1.0	0.508736	10.0	2385384.0	0.508736	Y
4	IC 410-305355/15	2.0	0.939365	10.0	2337590.0	0.469682	Y
5	IC 410-305355/14	5.0	2.367238	10.0	2362863.0	0.473448	Y
6	ICIS 410-305355/13	10.0	4.931337	10.0	2376313.0	0.493134	Y
7	IC 410-305355/12	25.0	12.058341	10.0	2406079.0	0.482334	Y



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Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

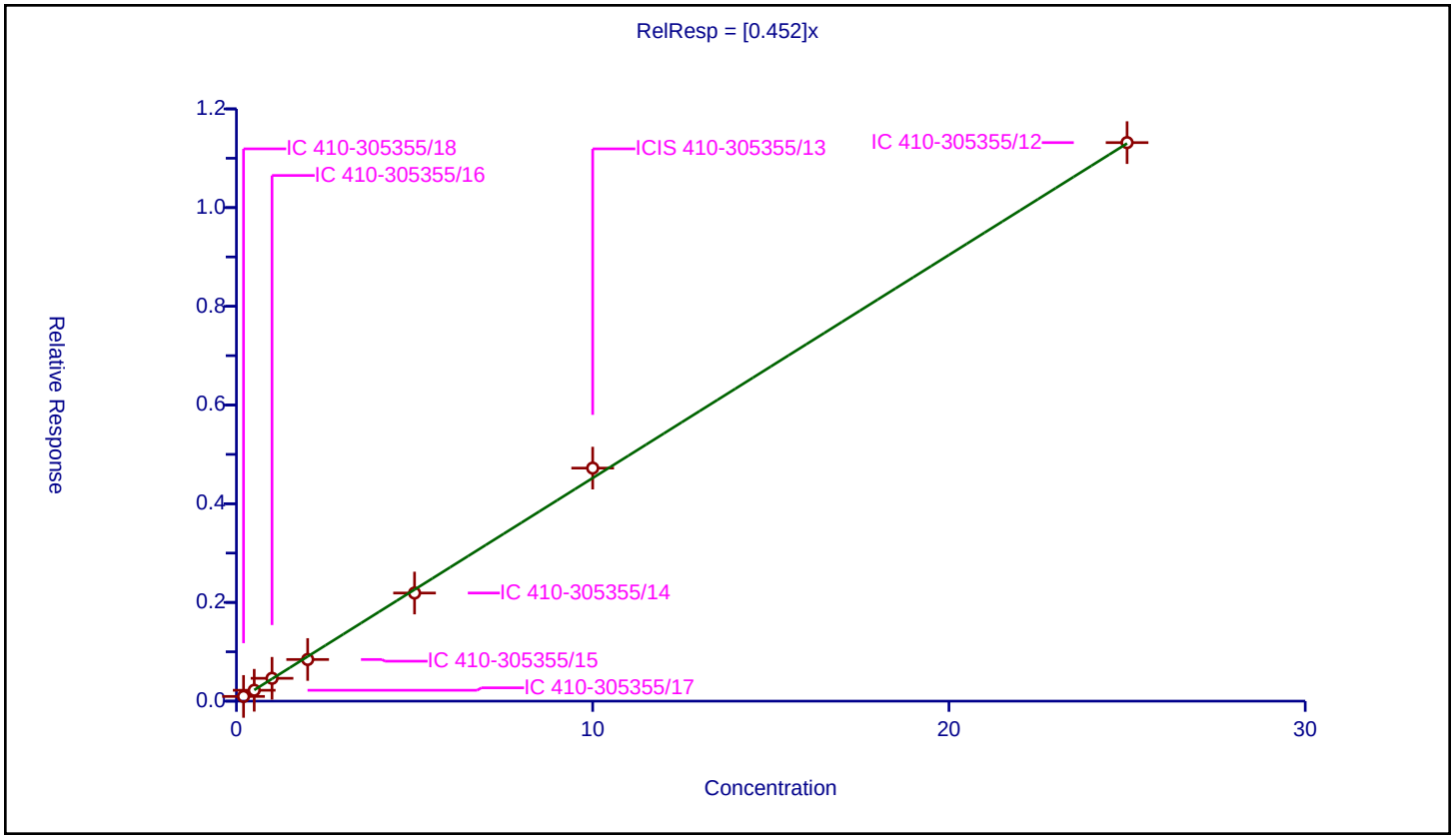
Curve Coefficients

Intercept:	0
Slope:	0.452

Error Coefficients

Standard Error:	1220000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.095172	10.0	2357937.0	0.475861	Y
2	IC 410-305355/17	0.5	0.220484	10.0	2400580.0	0.440968	Y
3	IC 410-305355/16	1.0	0.462575	10.0	2385384.0	0.462575	Y
4	IC 410-305355/15	2.0	0.843612	10.0	2337590.0	0.421806	Y
5	IC 410-305355/14	5.0	2.190478	10.0	2362863.0	0.438096	Y
6	ICIS 410-305355/13	10.0	4.721899	10.0	2376313.0	0.47219	Y
7	IC 410-305355/12	25.0	11.317018	10.0	2406079.0	0.452681	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

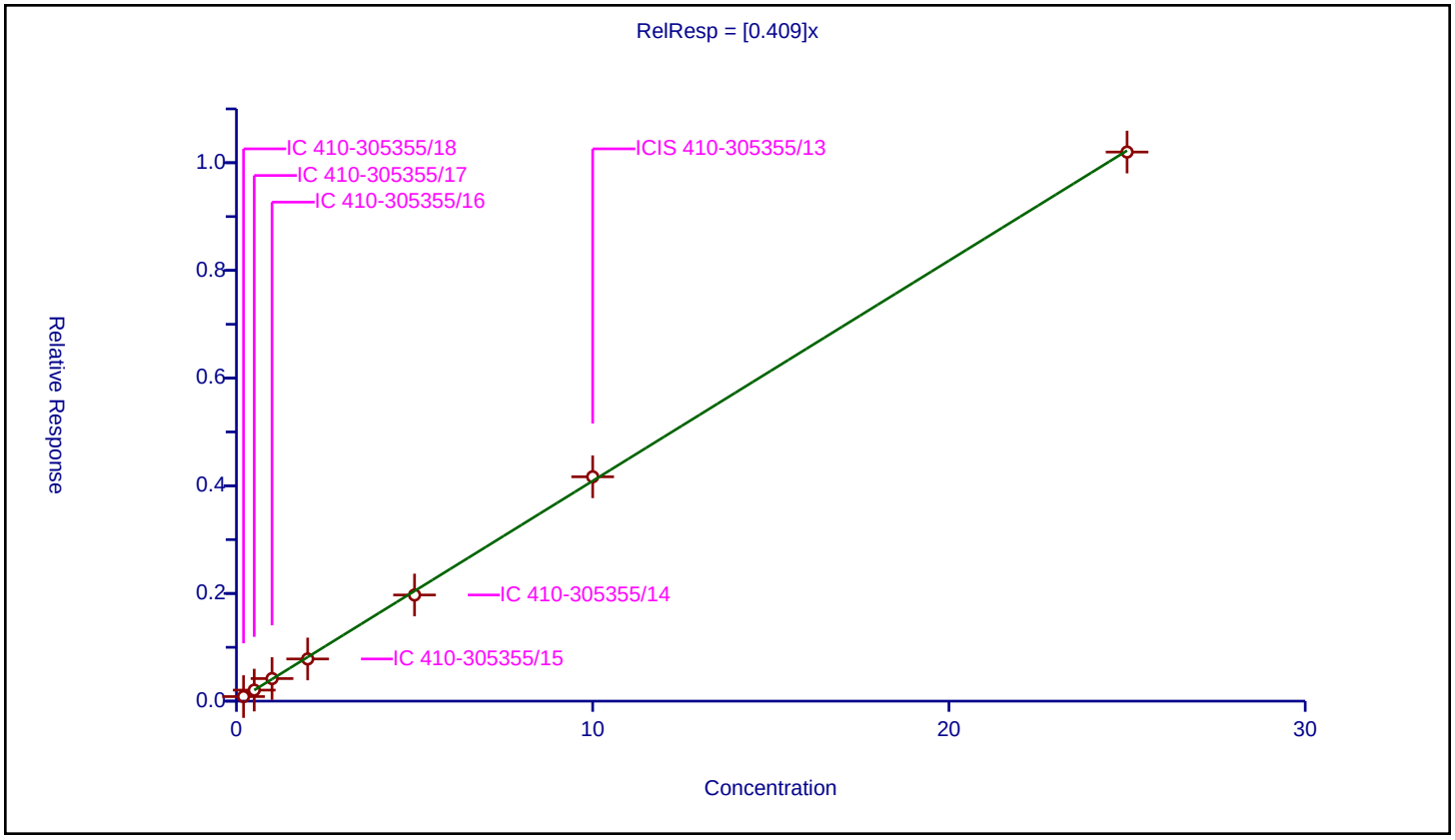
Curve Coefficients

Intercept:	0
Slope:	0.409

Error Coefficients

Standard Error:	1100000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.084761	10.0	2357937.0	0.423803	Y
2	IC 410-305355/17	0.5	0.20485	10.0	2400580.0	0.409701	Y
3	IC 410-305355/16	1.0	0.419073	10.0	2385384.0	0.419073	Y
4	IC 410-305355/15	2.0	0.783221	10.0	2337590.0	0.391611	Y
5	IC 410-305355/14	5.0	1.971638	10.0	2362863.0	0.394328	Y
6	ICIS 410-305355/13	10.0	4.167035	10.0	2376313.0	0.416704	Y
7	IC 410-305355/12	25.0	10.198389	10.0	2406079.0	0.407936	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

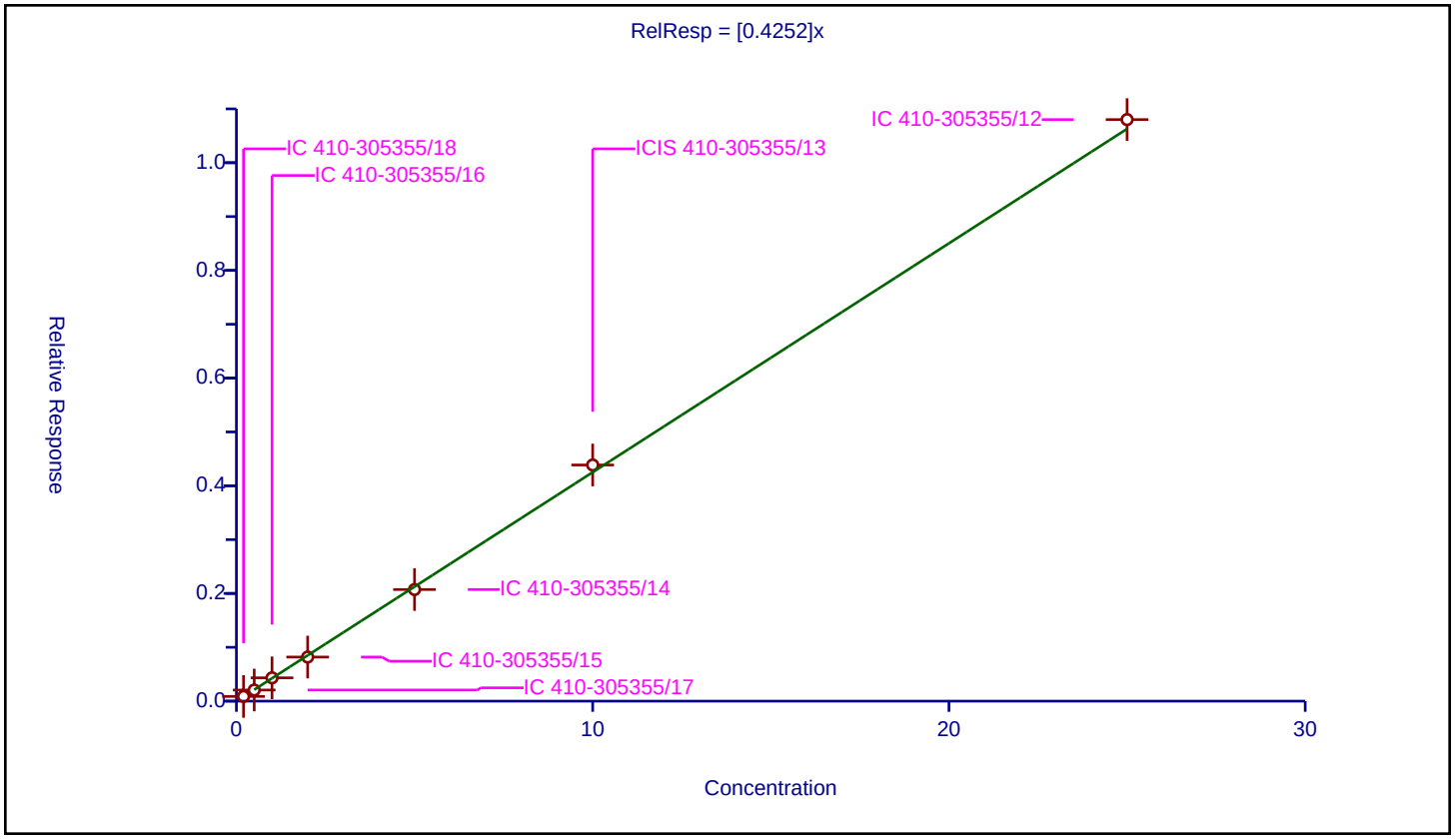
Curve Coefficients

Intercept:	0
Slope:	0.4252

Error Coefficients

Standard Error:	1160000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.087068	10.0	2357937.0	0.435338	Y
2	IC 410-305355/17	0.5	0.2065	10.0	2400580.0	0.413	Y
3	IC 410-305355/16	1.0	0.432928	10.0	2385384.0	0.432928	Y
4	IC 410-305355/15	2.0	0.819049	10.0	2337590.0	0.409524	Y
5	IC 410-305355/14	5.0	2.072947	10.0	2362863.0	0.414589	Y
6	ICIS 410-305355/13	10.0	4.38624	10.0	2376313.0	0.438624	Y
7	IC 410-305355/12	25.0	10.801187	10.0	2406079.0	0.432047	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

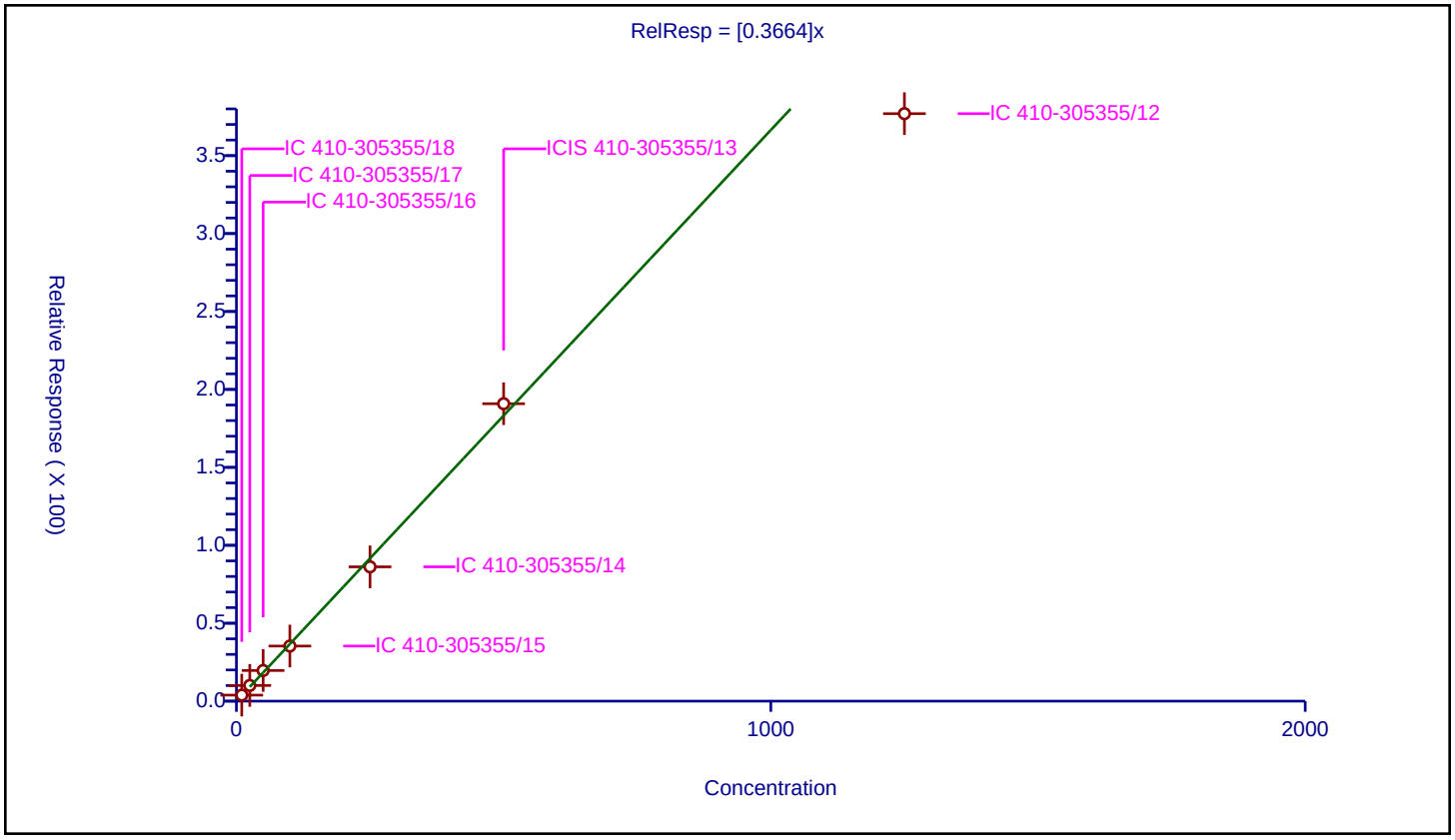
Curve Coefficients

Intercept:	0
Slope:	0.3664

Error Coefficients

Standard Error:	419000
Relative Standard Error:	9.7
Correlation Coefficient:	0.971
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	10.0	3.877511	50.0	127685.0	0.387751	Y
2	IC 410-305355/17	25.0	10.06228	50.0	127650.0	0.402491	Y
3	IC 410-305355/16	50.0	19.664329	50.0	129740.0	0.393287	Y
4	IC 410-305355/15	100.0	35.353506	50.0	135500.0	0.353535	Y
5	IC 410-305355/14	250.0	86.166829	50.0	130469.0	0.344667	Y
6	ICIS 410-305355/13	500.0	190.835868	50.0	130547.0	0.381672	Y
7	IC 410-305355/12	1250.0	376.946433	50.0	114286.0	0.301557	Y



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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

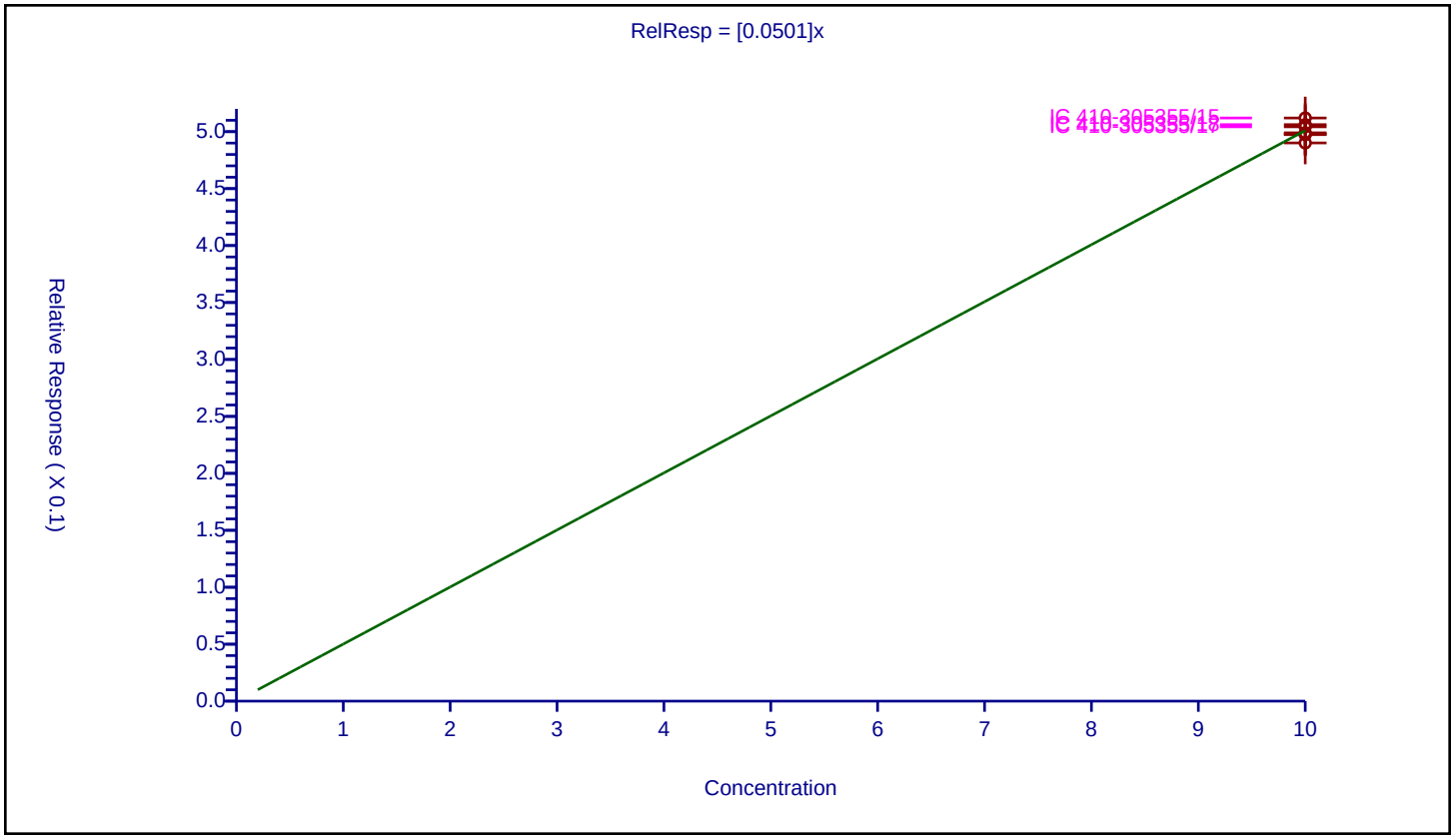
Curve Coefficients

Intercept:	0
Slope:	0.0501

Error Coefficients

Standard Error:	129000
Relative Standard Error:	1.4
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/12	10.0	0.49899	10.0	2406079.0	0.049899	Y
2	ICIS 410-305355/13	10.0	0.497855	10.0	2376313.0	0.049786	Y
3	IC 410-305355/14	10.0	0.49738	10.0	2362863.0	0.049738	Y
4	IC 410-305355/15	10.0	0.51201	10.0	2337590.0	0.051201	Y
5	IC 410-305355/16	10.0	0.490118	10.0	2385384.0	0.049012	Y
6	IC 410-305355/17	10.0	0.504266	10.0	2400580.0	0.050427	Y
7	IC 410-305355/18	10.0	0.506184	10.0	2357937.0	0.050618	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

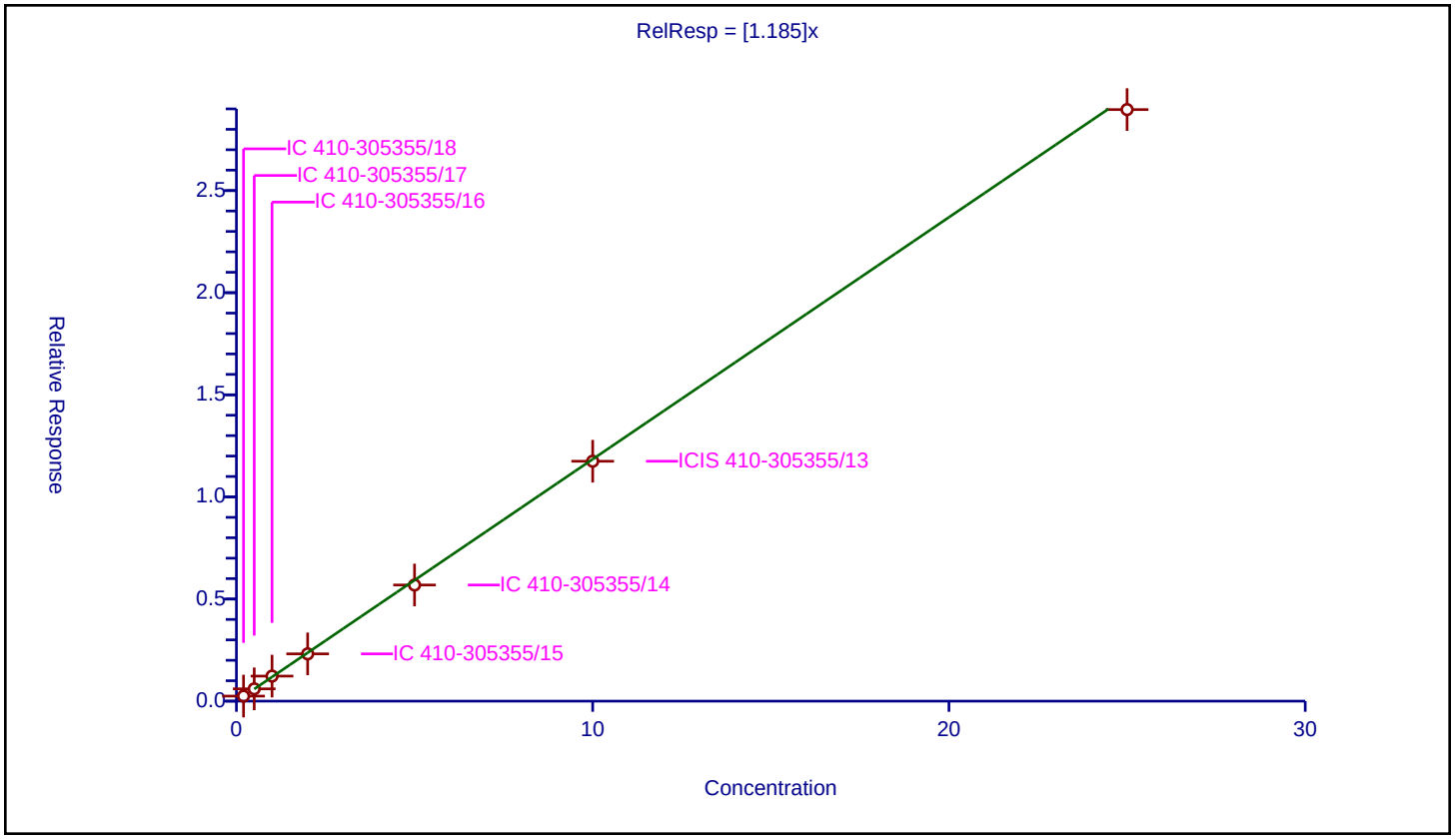
Curve Coefficients

Intercept:	0
Slope:	1.185

Error Coefficients

Standard Error:	3120000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.246542	10.0	2357937.0	1.232709	Y
2	IC 410-305355/17	0.5	0.602196	10.0	2400580.0	1.204392	Y
3	IC 410-305355/16	1.0	1.227102	10.0	2385384.0	1.227102	Y
4	IC 410-305355/15	2.0	2.315333	10.0	2337590.0	1.157667	Y
5	IC 410-305355/14	5.0	5.686673	10.0	2362863.0	1.137335	Y
6	ICIS 410-305355/13	10.0	11.747388	10.0	2376313.0	1.174739	Y
7	IC 410-305355/12	25.0	28.96641	10.0	2406079.0	1.158656	Y



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Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

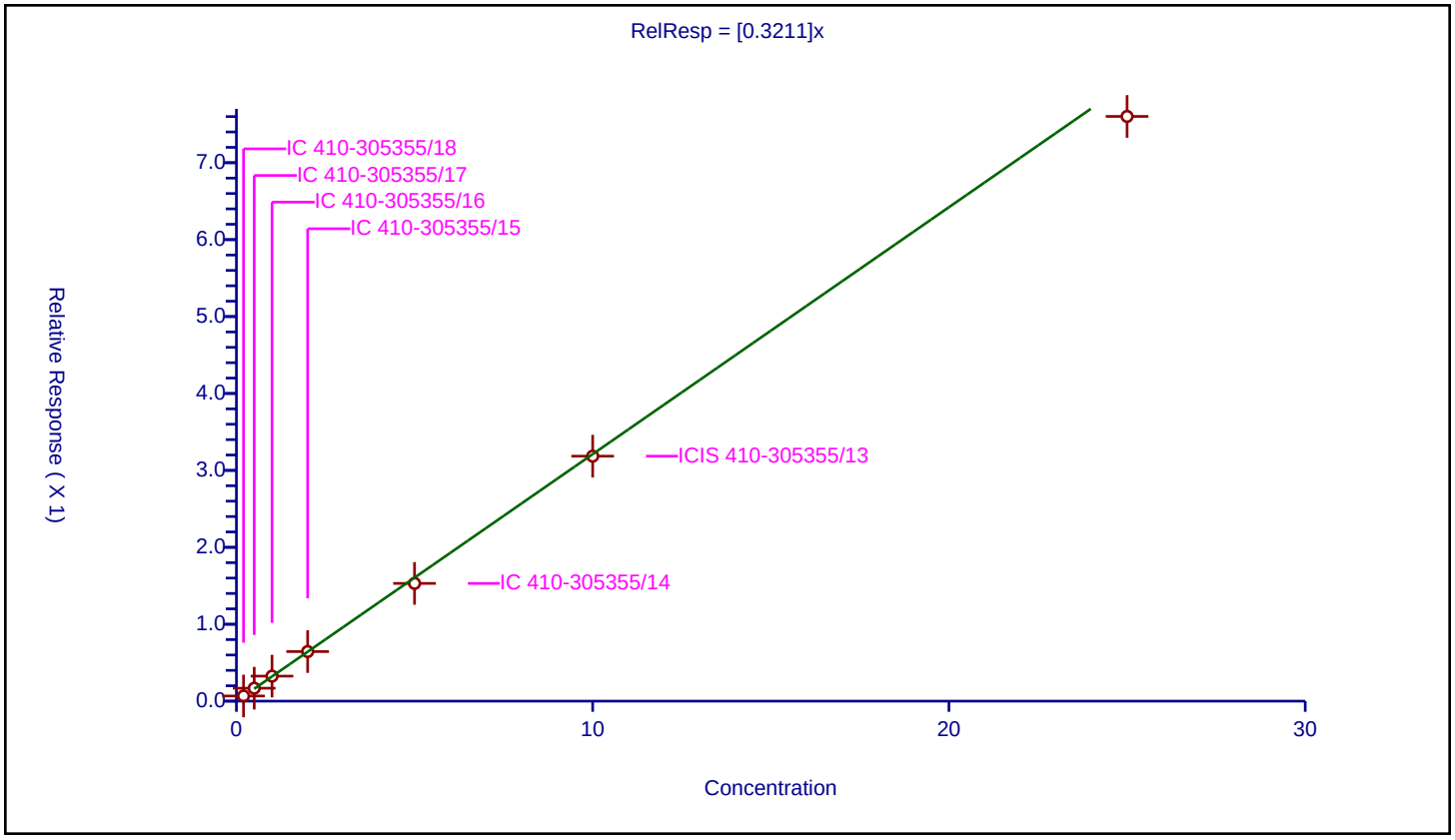
Curve Coefficients

Intercept:	0
Slope:	0.3211

Error Coefficients

Standard Error:	825000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.067046	10.0	2357937.0	0.335229	Y
2	IC 410-305355/17	0.5	0.168005	10.0	2400580.0	0.33601	Y
3	IC 410-305355/16	1.0	0.325327	10.0	2385384.0	0.325327	Y
4	IC 410-305355/15	2.0	0.644634	10.0	2337590.0	0.322317	Y
5	IC 410-305355/14	5.0	1.5308	10.0	2362863.0	0.30616	Y
6	ICIS 410-305355/13	10.0	3.184963	10.0	2376313.0	0.318496	Y
7	IC 410-305355/12	25.0	7.60187	10.0	2406079.0	0.304075	Y



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Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

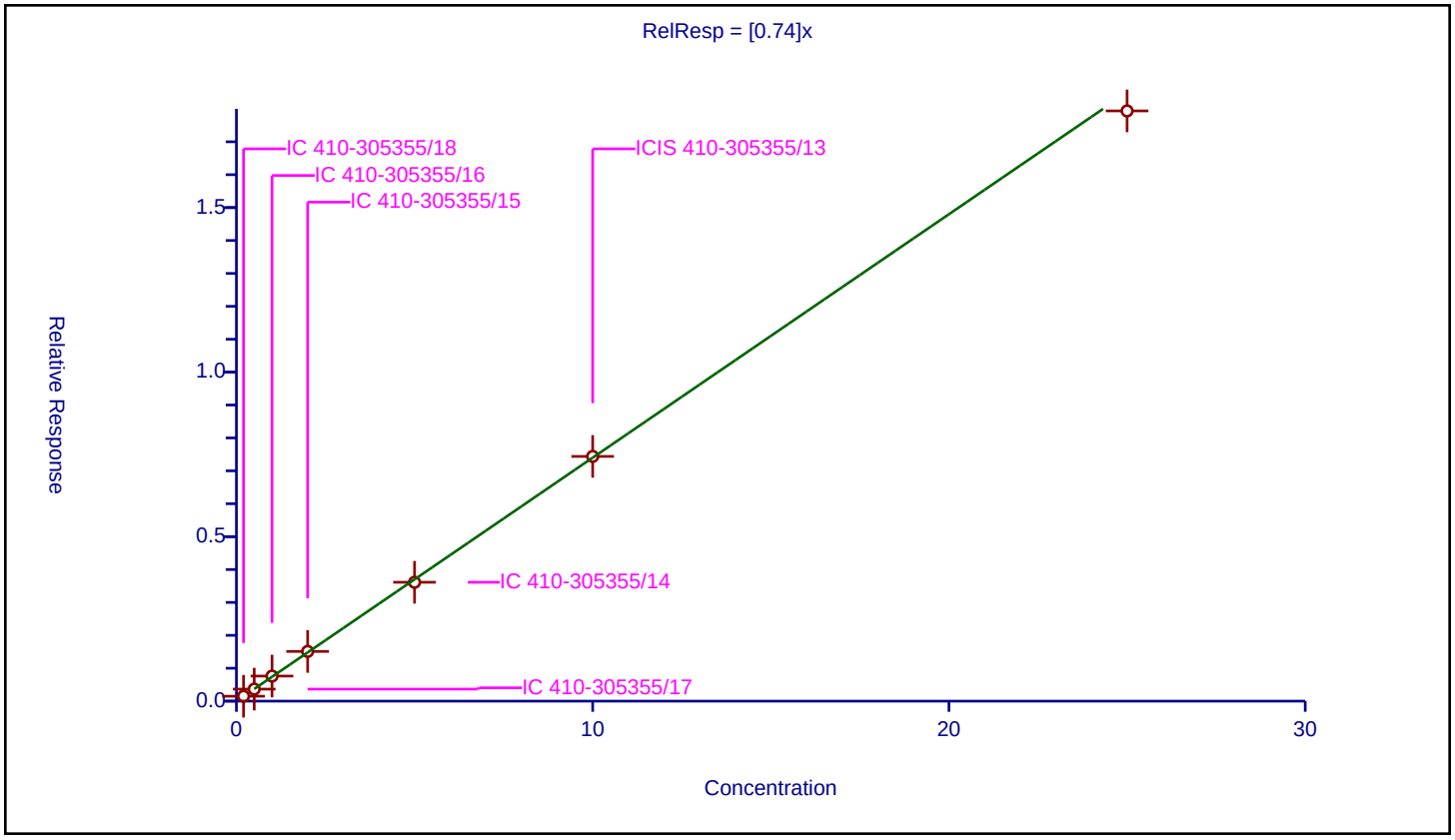
Curve Coefficients

Intercept:	0
Slope:	0.74

Error Coefficients

Standard Error:	1940000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.149482	10.0	2357937.0	0.747412	Y
2	IC 410-305355/17	0.5	0.365508	10.0	2400580.0	0.731015	Y
3	IC 410-305355/16	1.0	0.761835	10.0	2385384.0	0.761835	Y
4	IC 410-305355/15	2.0	1.511223	10.0	2337590.0	0.755612	Y
5	IC 410-305355/14	5.0	3.612702	10.0	2362863.0	0.72254	Y
6	ICIS 410-305355/13	10.0	7.437884	10.0	2376313.0	0.743788	Y
7	IC 410-305355/12	25.0	17.938696	10.0	2406079.0	0.717548	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

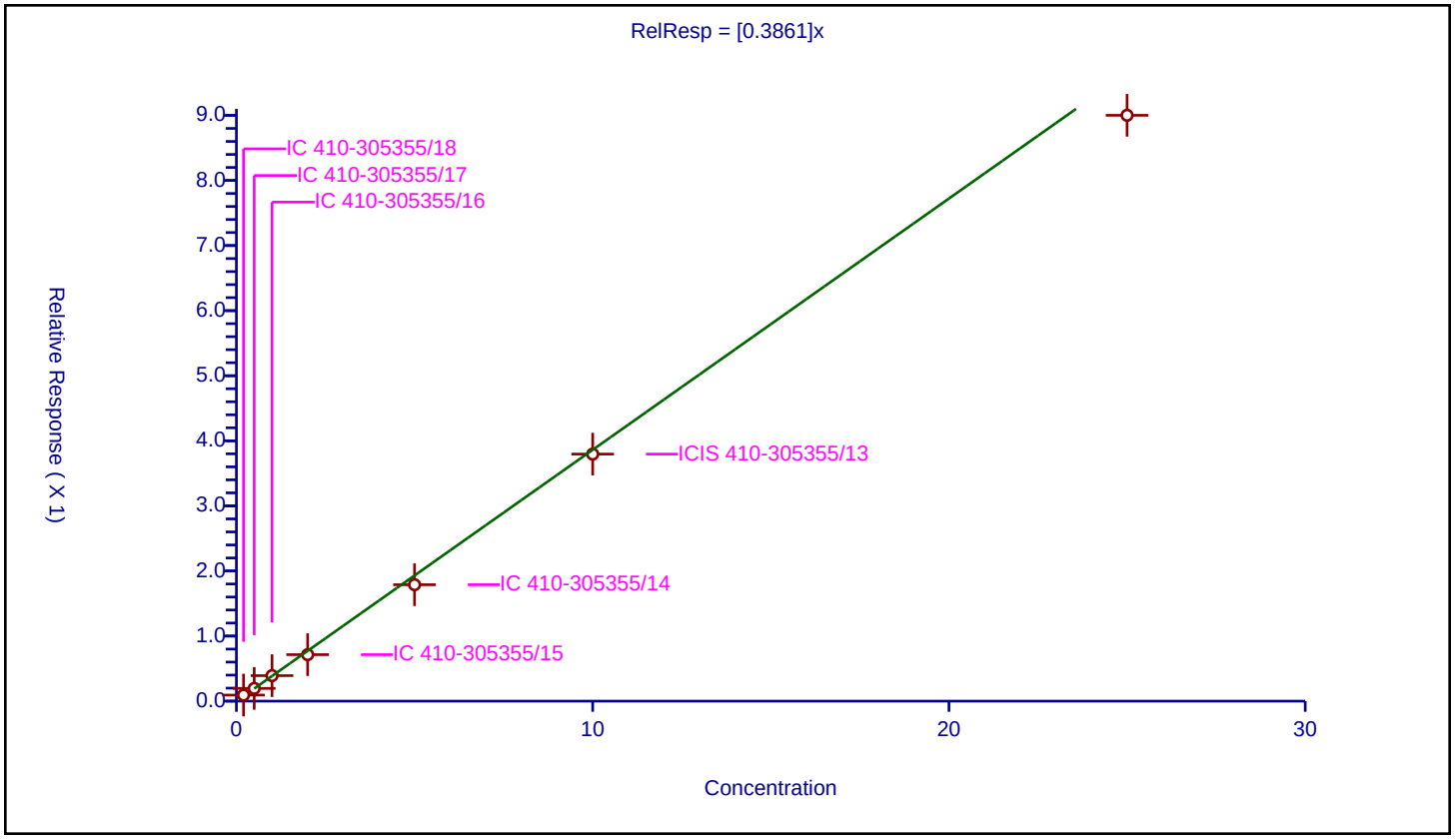
Curve Coefficients

Intercept:	0
Slope:	0.3861

Error Coefficients

Standard Error:	977000
Relative Standard Error:	9.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.093014	10.0	2357937.0	0.465068	Y
2	IC 410-305355/17	0.5	0.195753	10.0	2400580.0	0.391505	Y
3	IC 410-305355/16	1.0	0.391794	10.0	2385384.0	0.391794	Y
4	IC 410-305355/15	2.0	0.714137	10.0	2337590.0	0.357069	Y
5	IC 410-305355/14	5.0	1.788936	10.0	2362863.0	0.357787	Y
6	ICIS 410-305355/13	10.0	3.795859	10.0	2376313.0	0.379586	Y
7	IC 410-305355/12	25.0	9.00145	10.0	2406079.0	0.360058	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

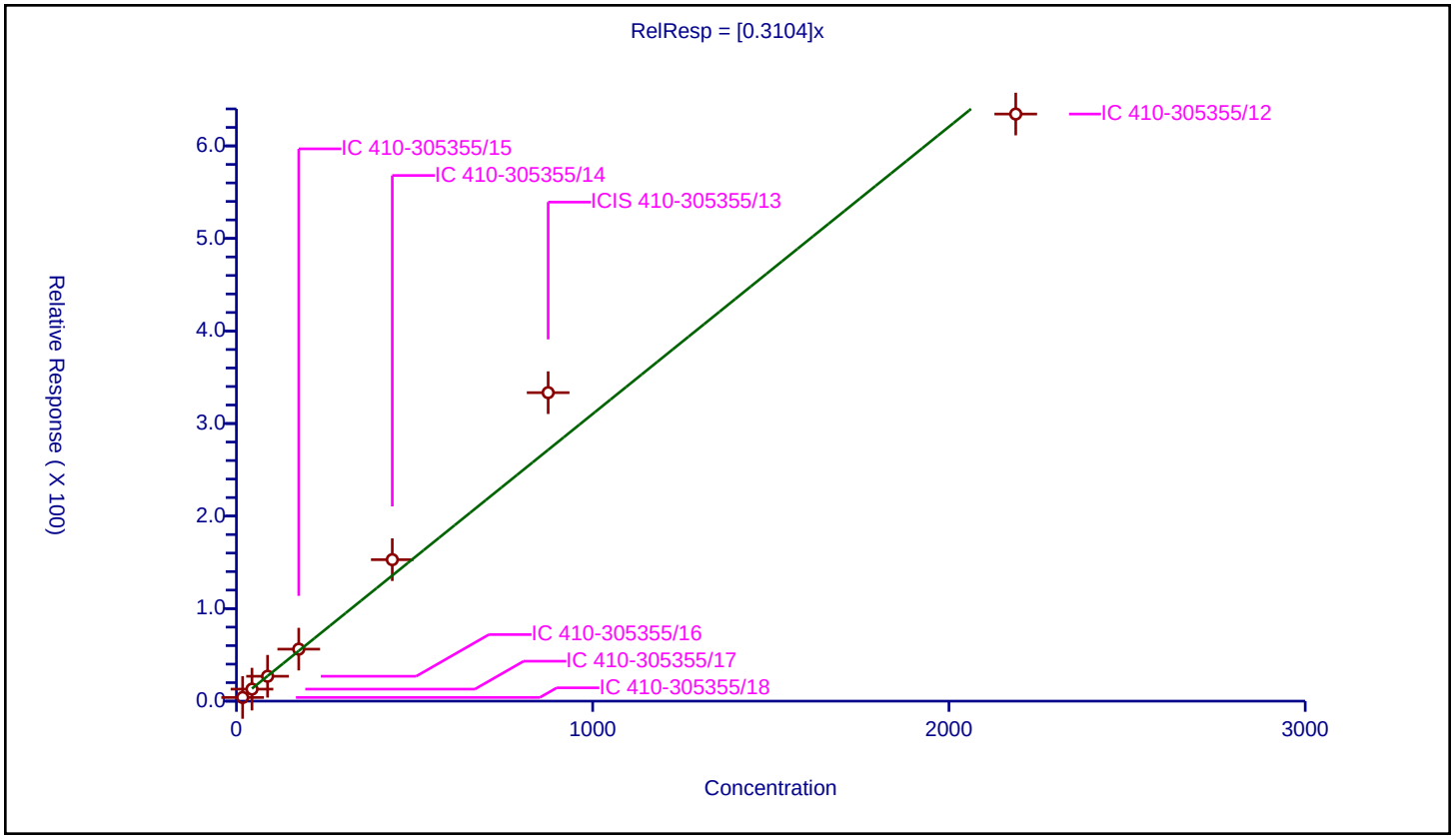
Curve Coefficients

Intercept:	0
Slope:	0.3104

Error Coefficients

Standard Error:	713000
Relative Standard Error:	15.7
Correlation Coefficient:	0.962
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	17.5	3.958962	50.0	127685.0	0.226226	Y
2	IC 410-305355/17	43.75	12.99765	50.0	127650.0	0.297089	Y
3	IC 410-305355/16	87.5	26.909203	50.0	129740.0	0.307534	Y
4	IC 410-305355/15	175.0	56.206642	50.0	135500.0	0.321181	Y
5	IC 410-305355/14	437.5	152.879994	50.0	130469.0	0.34944	Y
6	ICIS 410-305355/13	875.0	333.349675	50.0	130547.0	0.380971	Y
7	IC 410-305355/12	2187.5	634.442101	50.0	114286.0	0.290031	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

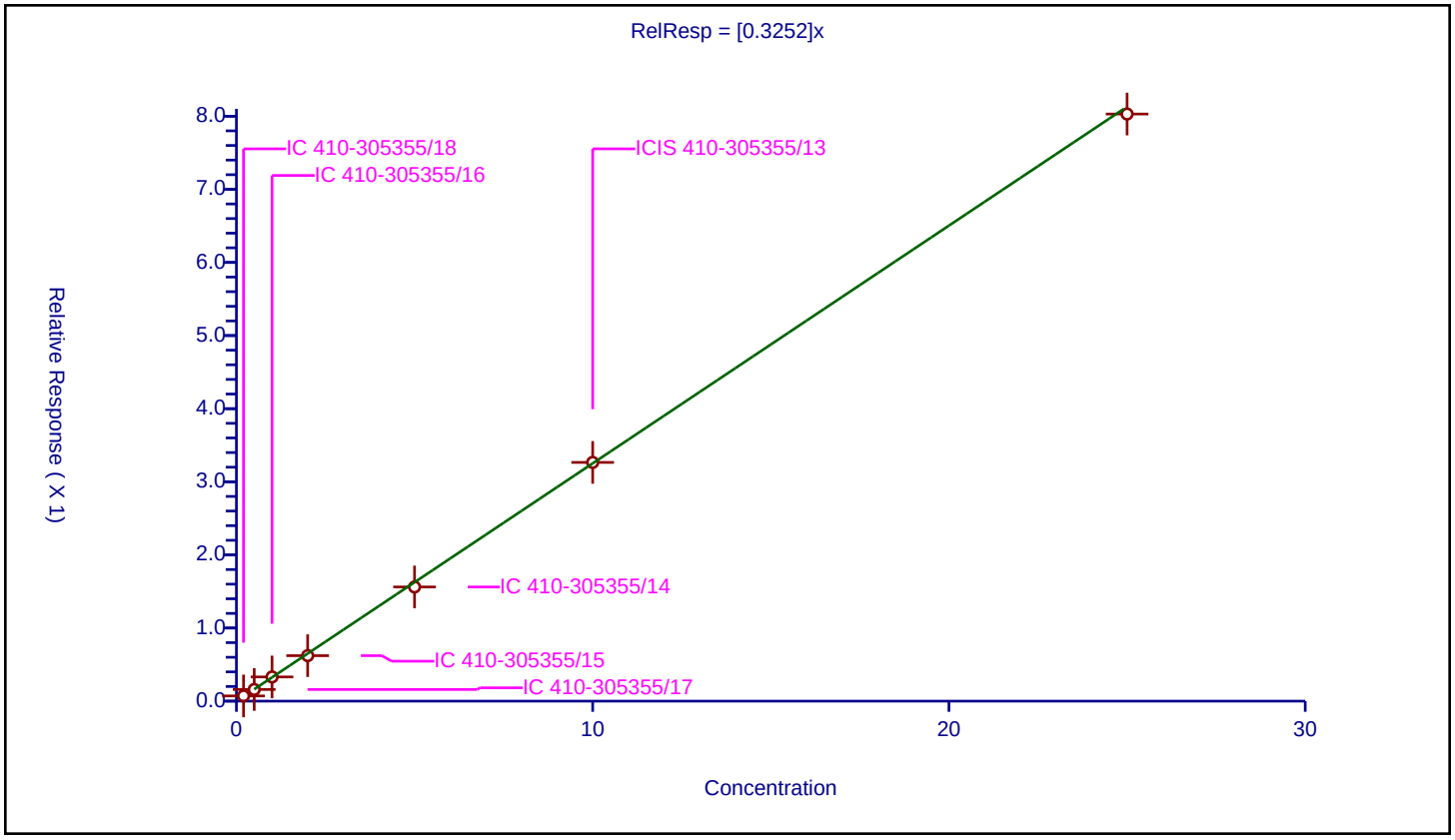
Curve Coefficients

Intercept:	0
Slope:	0.3252

Error Coefficients

Standard Error:	866000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.071071	10.0	2357937.0	0.355353	Y
2	IC 410-305355/17	0.5	0.159541	10.0	2400580.0	0.319081	Y
3	IC 410-305355/16	1.0	0.330777	10.0	2385384.0	0.330777	Y
4	IC 410-305355/15	2.0	0.622102	10.0	2337590.0	0.311051	Y
5	IC 410-305355/14	5.0	1.561462	10.0	2362863.0	0.312292	Y
6	ICIS 410-305355/13	10.0	3.265197	10.0	2376313.0	0.32652	Y
7	IC 410-305355/12	25.0	8.029836	10.0	2406079.0	0.321193	Y



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Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

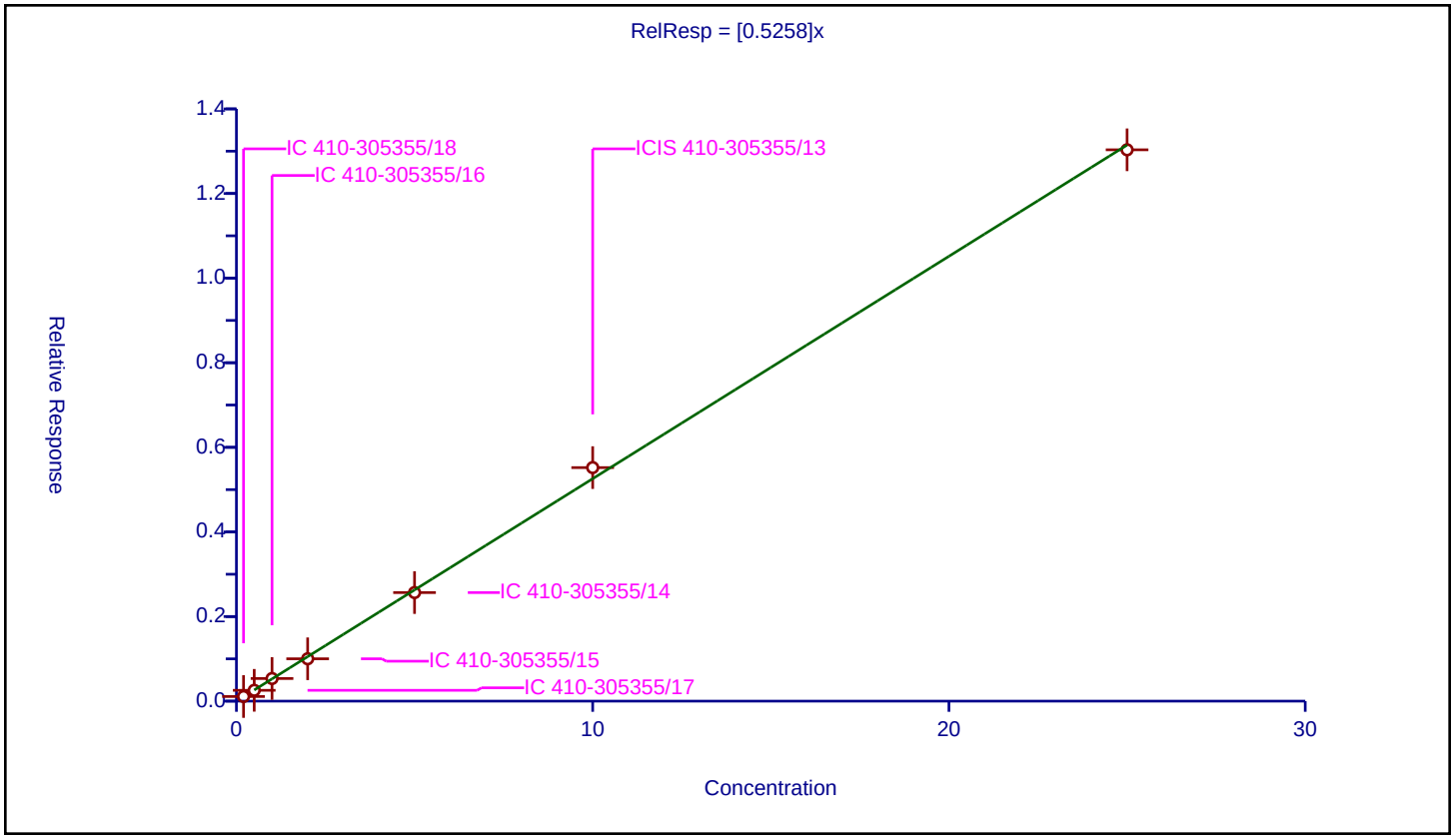
Curve Coefficients

Intercept:	0
Slope:	0.5258

Error Coefficients

Standard Error:	1410000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.109312	10.0	2357937.0	0.546558	Y
2	IC 410-305355/17	0.5	0.255855	10.0	2400580.0	0.51171	Y
3	IC 410-305355/16	1.0	0.535038	10.0	2385384.0	0.535038	Y
4	IC 410-305355/15	2.0	1.001433	10.0	2337590.0	0.500717	Y
5	IC 410-305355/14	5.0	2.566281	10.0	2362863.0	0.513256	Y
6	ICIS 410-305355/13	10.0	5.520439	10.0	2376313.0	0.552044	Y
7	IC 410-305355/12	25.0	13.033055	10.0	2406079.0	0.521322	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

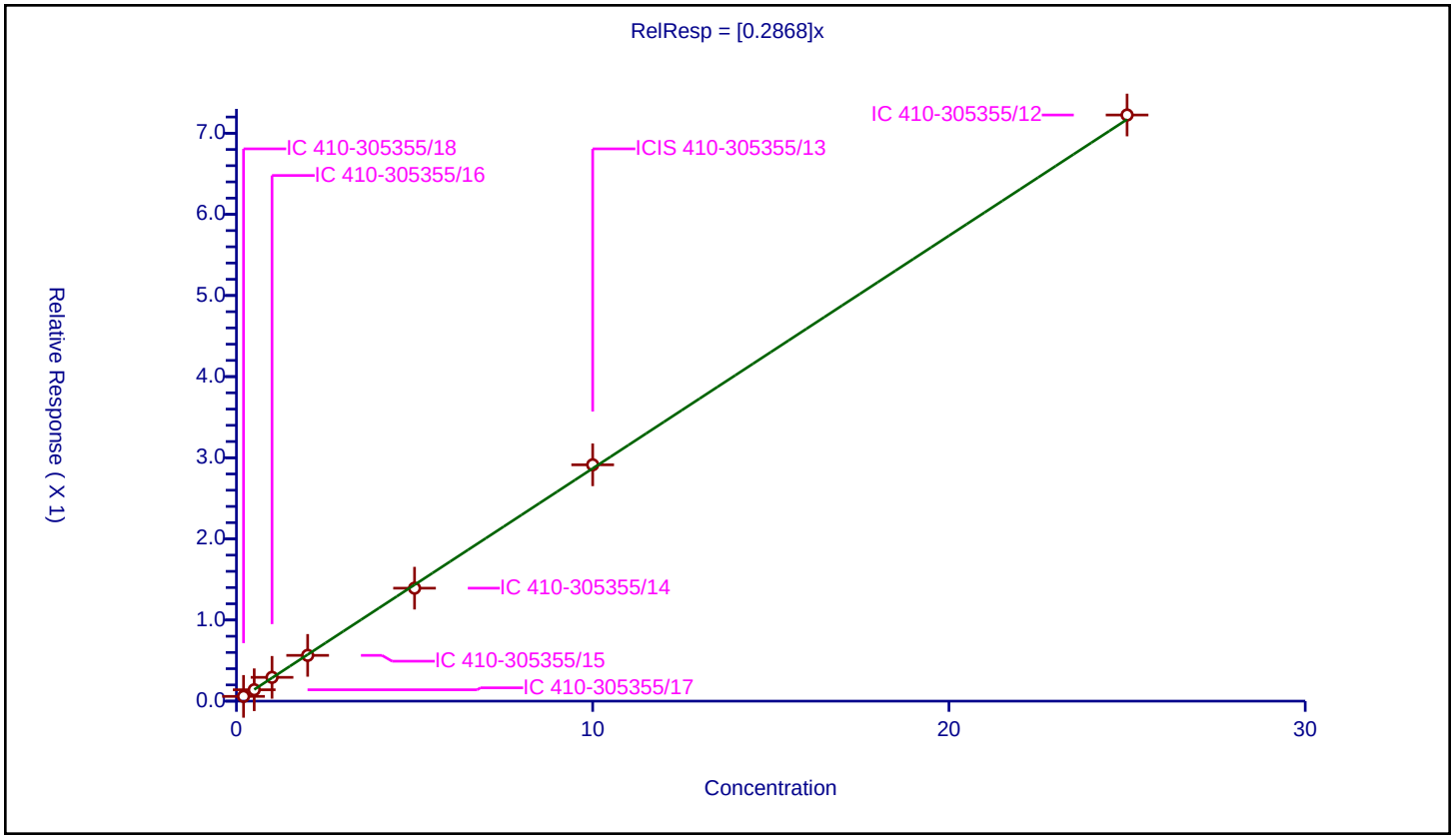
Curve Coefficients

Intercept:	0
Slope:	0.2868

Error Coefficients

Standard Error:	778000
Relative Standard Error:	2.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.058606	10.0	2357937.0	0.293032	Y
2	IC 410-305355/17	0.5	0.140366	10.0	2400580.0	0.280732	Y
3	IC 410-305355/16	1.0	0.293211	10.0	2385384.0	0.293211	Y
4	IC 410-305355/15	2.0	0.564017	10.0	2337590.0	0.282008	Y
5	IC 410-305355/14	5.0	1.392586	10.0	2362863.0	0.278517	Y
6	ICIS 410-305355/13	10.0	2.913177	10.0	2376313.0	0.291318	Y
7	IC 410-305355/12	25.0	7.22473	10.0	2406079.0	0.288989	Y



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Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

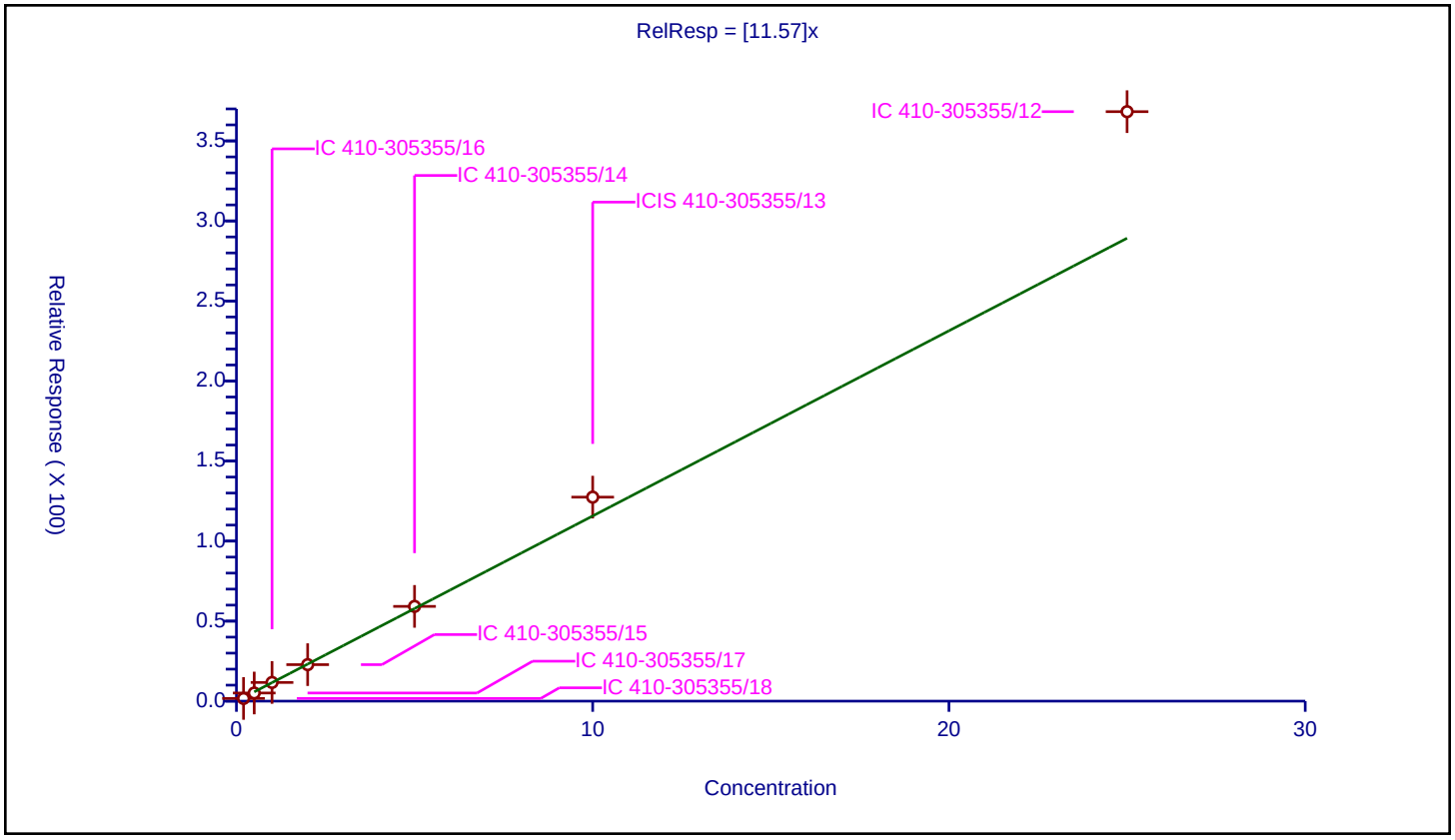
Curve Coefficients

Intercept:	0
Slope:	11.57

Error Coefficients

Standard Error:	376000
Relative Standard Error:	17.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.968

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	1.68344	50.0	127685.0	8.417199	Y
2	IC 410-305355/17	0.5	5.09009	50.0	127650.0	10.18018	Y
3	IC 410-305355/16	1.0	11.66641	50.0	129740.0	11.66641	Y
4	IC 410-305355/15	2.0	22.802214	50.0	135500.0	11.401107	Y
5	IC 410-305355/14	5.0	59.195671	50.0	130469.0	11.839134	Y
6	ICIS 410-305355/13	10.0	127.447586	50.0	130547.0	12.744759	Y
7	IC 410-305355/12	25.0	368.273892	50.0	114286.0	14.730956	Y



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Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

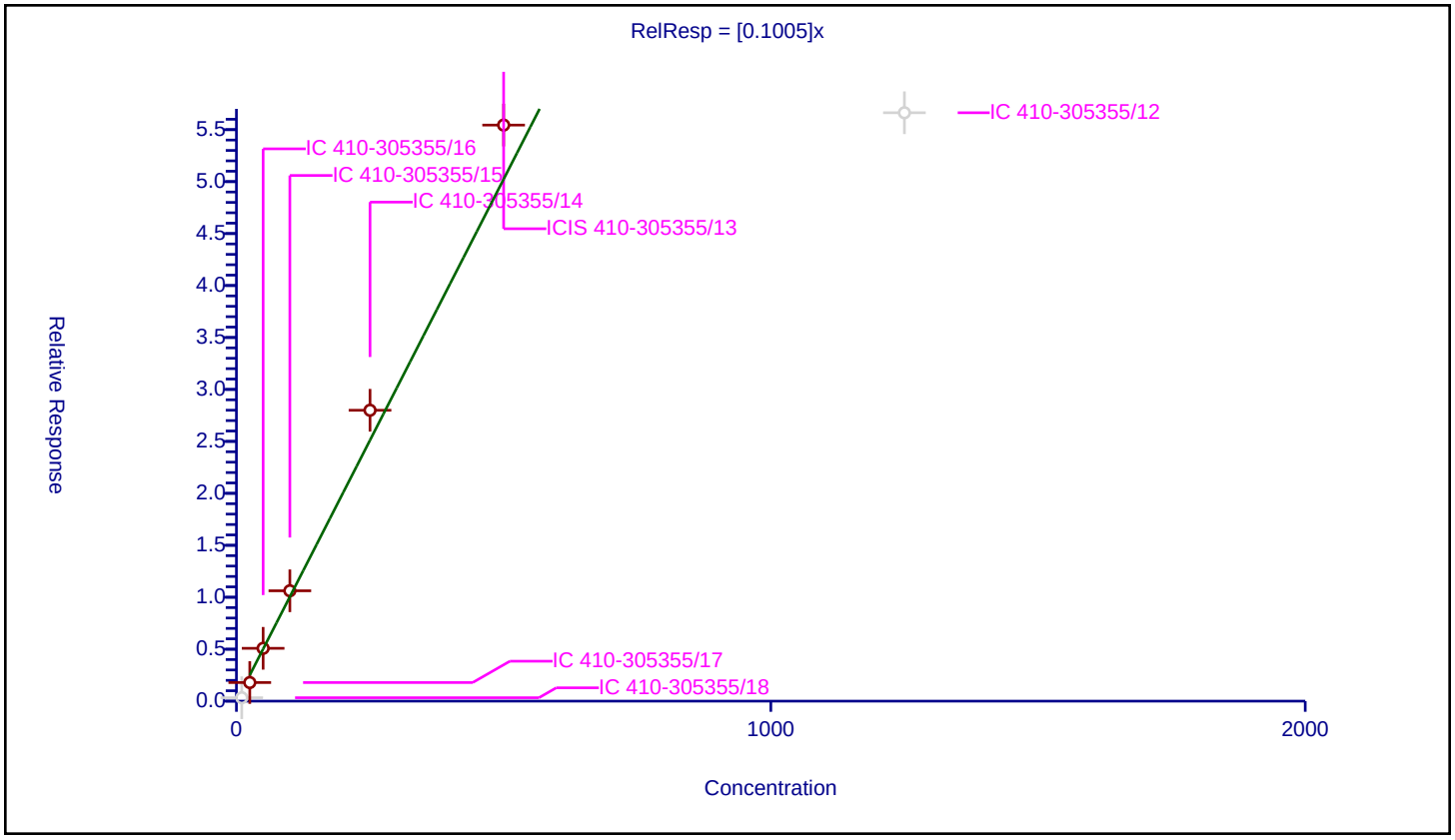
Curve Coefficients

Intercept:	0
Slope:	0.1005

Error Coefficients

Standard Error:	82600
Relative Standard Error:	16.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.964

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	10.0	0.328934	50.0	127685.0	0.032893	N
2	IC 410-305355/17	25.0	1.790443	50.0	127650.0	0.071618	Y
3	IC 410-305355/16	50.0	5.083243	50.0	129740.0	0.101665	Y
4	IC 410-305355/15	100.0	10.621033	50.0	135500.0	0.10621	Y
5	IC 410-305355/14	250.0	27.994773	50.0	130469.0	0.111979	Y
6	ICIS 410-305355/13	500.0	55.441718	50.0	130547.0	0.110883	Y
7	IC 410-305355/12	1250.0	56.629421	50.0	114286.0	0.045304	N



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

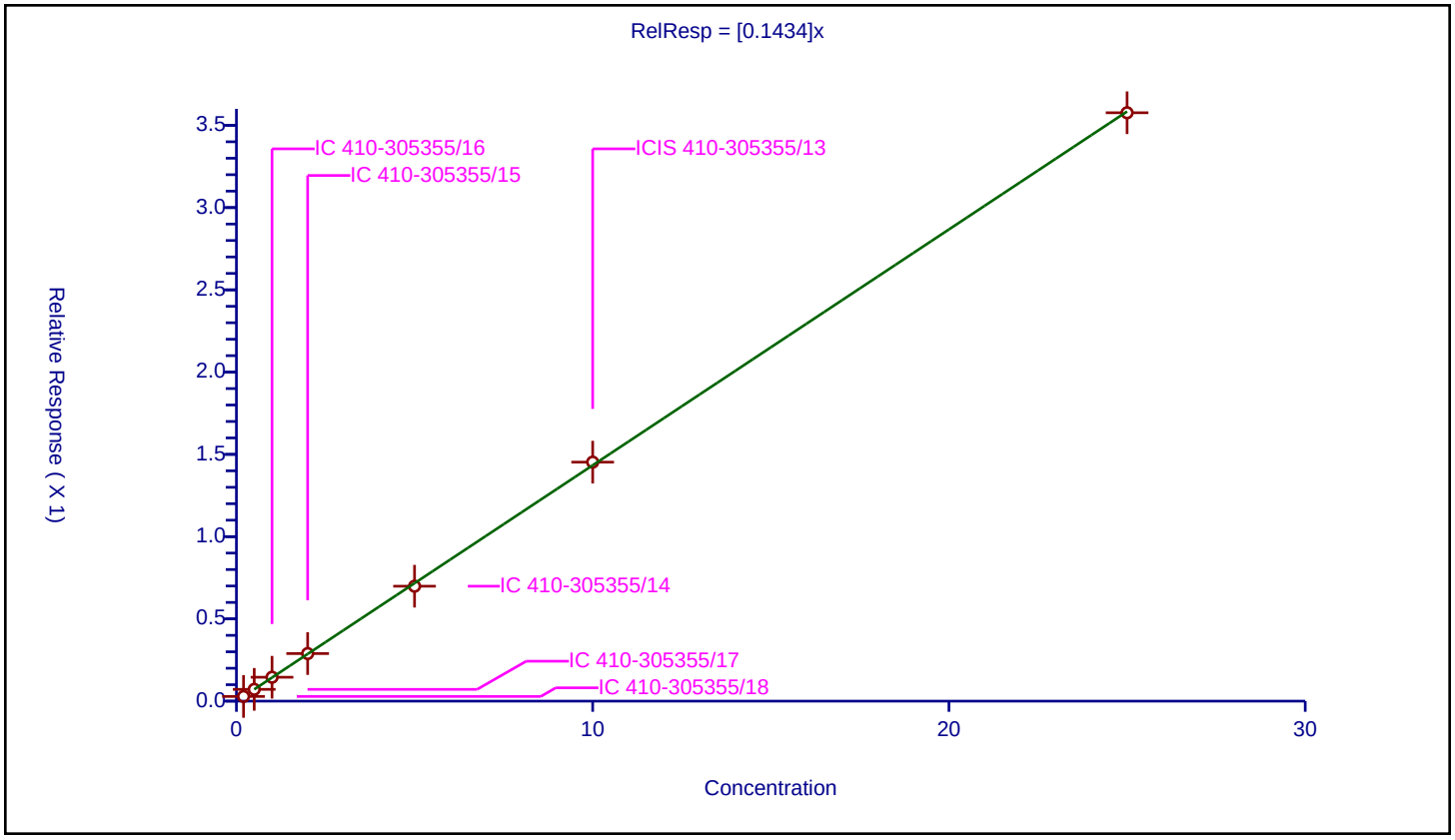
Curve Coefficients

Intercept:	0
Slope:	0.1434

Error Coefficients

Standard Error:	386000
Relative Standard Error:	1.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.028491	10.0	2357937.0	0.142455	Y
2	IC 410-305355/17	0.5	0.071595	10.0	2400580.0	0.14319	Y
3	IC 410-305355/16	1.0	0.145264	10.0	2385384.0	0.145264	Y
4	IC 410-305355/15	2.0	0.289157	10.0	2337590.0	0.144578	Y
5	IC 410-305355/14	5.0	0.698652	10.0	2362863.0	0.13973	Y
6	ICIS 410-305355/13	10.0	1.452818	10.0	2376313.0	0.145282	Y
7	IC 410-305355/12	25.0	3.576533	10.0	2406079.0	0.143061	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

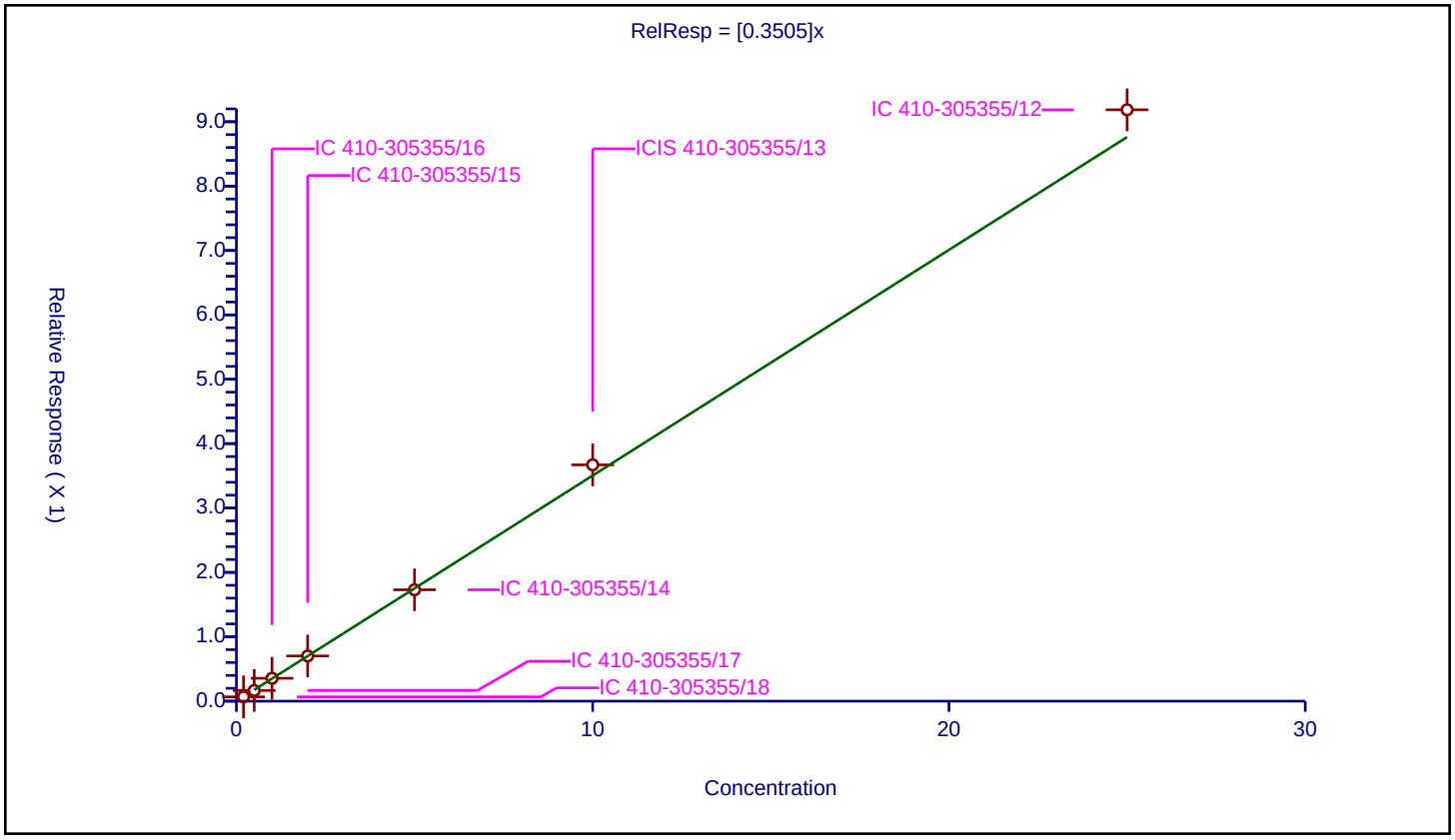
Curve Coefficients

Intercept:	0
Slope:	0.3505

Error Coefficients

Standard Error:	987000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.066897	10.0	2357937.0	0.334487	Y
2	IC 410-305355/17	0.5	0.165697	10.0	2400580.0	0.331395	Y
3	IC 410-305355/16	1.0	0.355767	10.0	2385384.0	0.355767	Y
4	IC 410-305355/15	2.0	0.702364	10.0	2337590.0	0.351182	Y
5	IC 410-305355/14	5.0	1.729829	10.0	2362863.0	0.345966	Y
6	ICIS 410-305355/13	10.0	3.670931	10.0	2376313.0	0.367093	Y
7	IC 410-305355/12	25.0	9.186008	10.0	2406079.0	0.36744	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

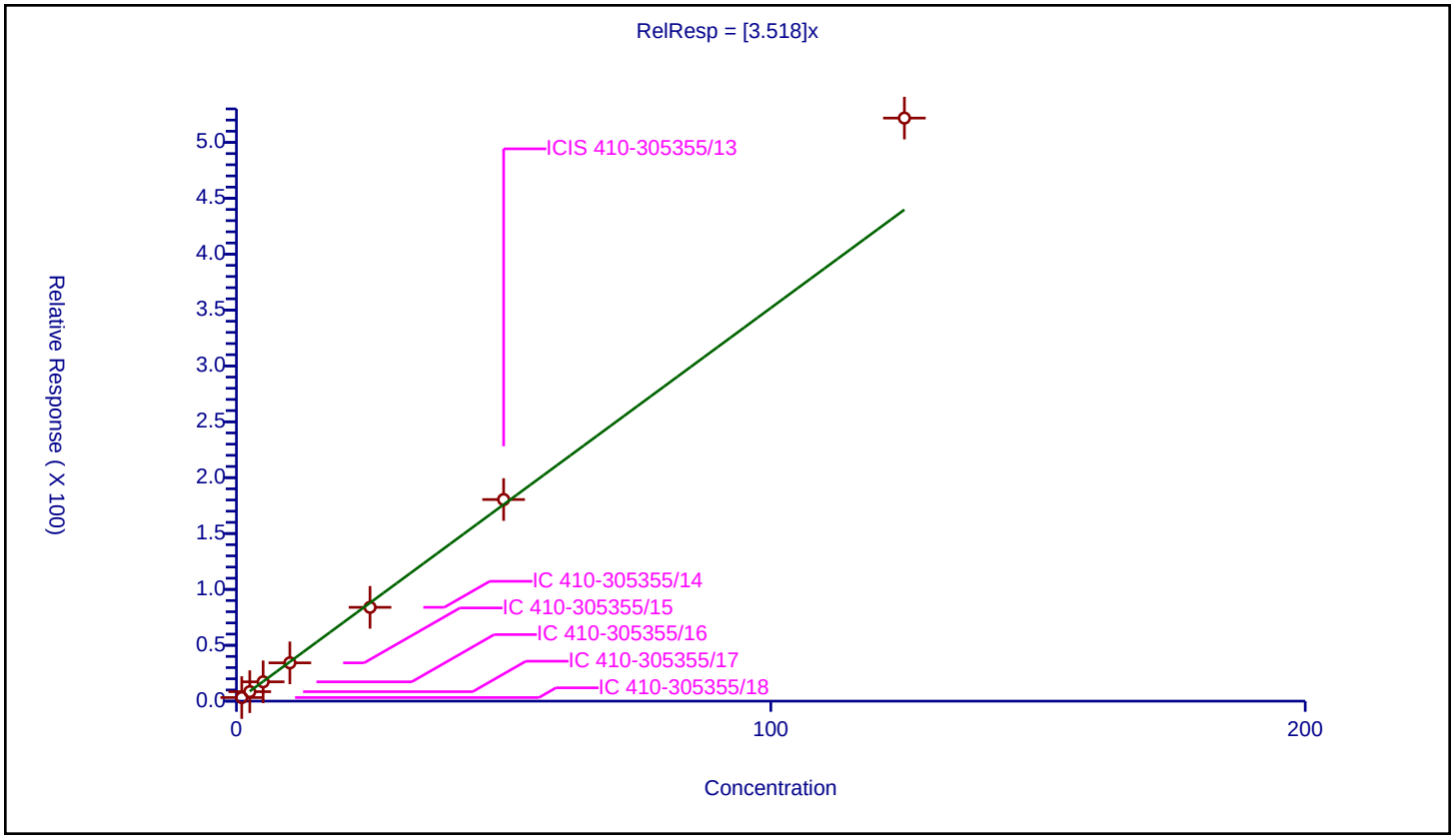
Curve Coefficients

Intercept:	0
Slope:	3.518

Error Coefficients

Standard Error:	533000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	1.0	3.216901	50.0	127685.0	3.216901	Y
2	IC 410-305355/17	2.5	8.469644	50.0	127650.0	3.387857	Y
3	IC 410-305355/16	5.0	17.289194	50.0	129740.0	3.457839	Y
4	IC 410-305355/15	10.0	34.263838	50.0	135500.0	3.426384	Y
5	IC 410-305355/14	25.0	83.950977	50.0	130469.0	3.358039	Y
6	ICIS 410-305355/13	50.0	180.413185	50.0	130547.0	3.608264	Y
7	IC 410-305355/12	125.0	521.766883	50.0	114286.0	4.174135	Y



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Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

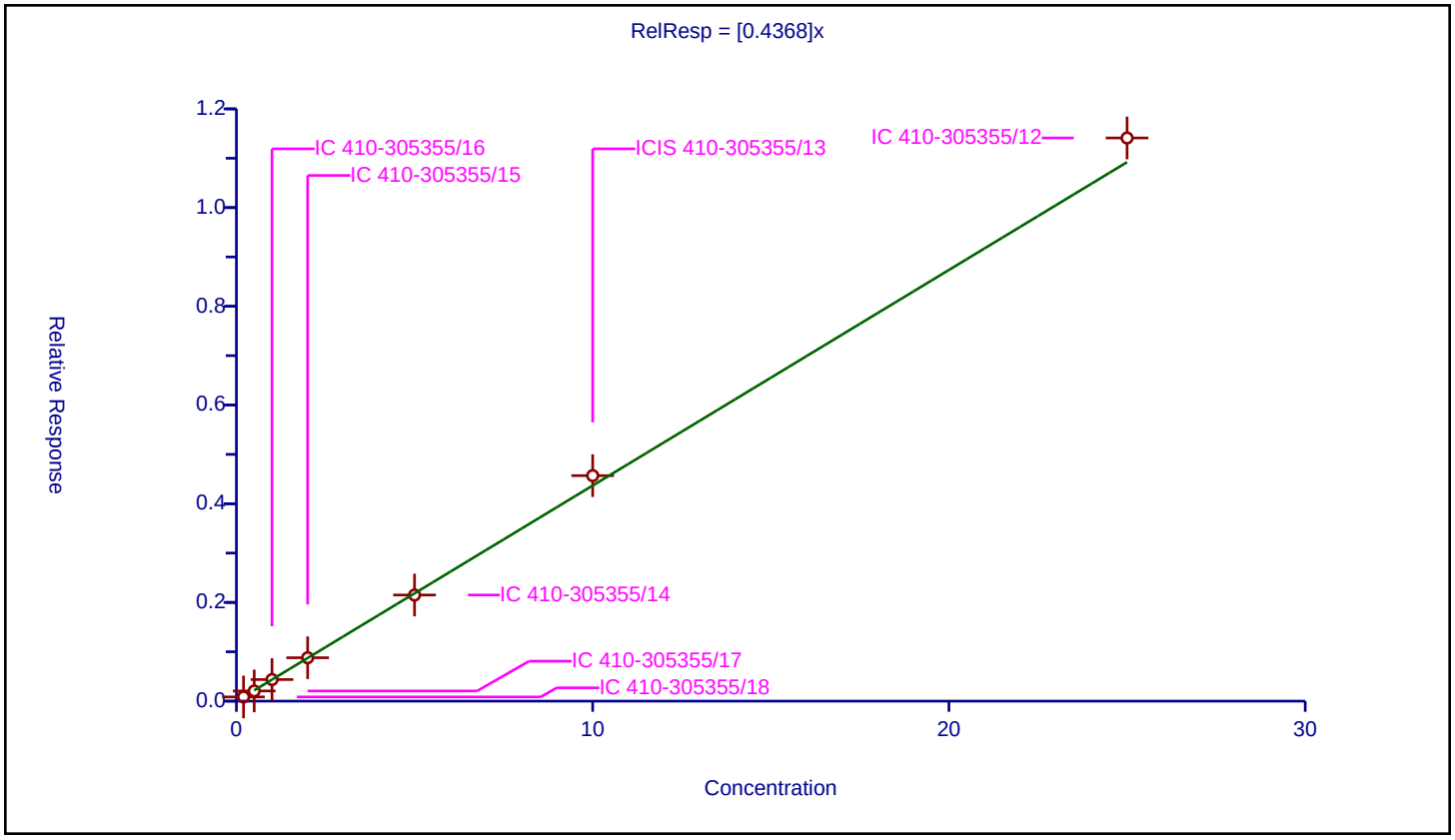
Curve Coefficients

Intercept:	0
Slope:	0.4368

Error Coefficients

Standard Error:	1230000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.085019	10.0	2357937.0	0.425096	Y
2	IC 410-305355/17	0.5	0.20625	10.0	2400580.0	0.4125	Y
3	IC 410-305355/16	1.0	0.437137	10.0	2385384.0	0.437137	Y
4	IC 410-305355/15	2.0	0.879401	10.0	2337590.0	0.439701	Y
5	IC 410-305355/14	5.0	2.150159	10.0	2362863.0	0.430032	Y
6	ICIS 410-305355/13	10.0	4.568838	10.0	2376313.0	0.456884	Y
7	IC 410-305355/12	25.0	11.410423	10.0	2406079.0	0.456417	Y



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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

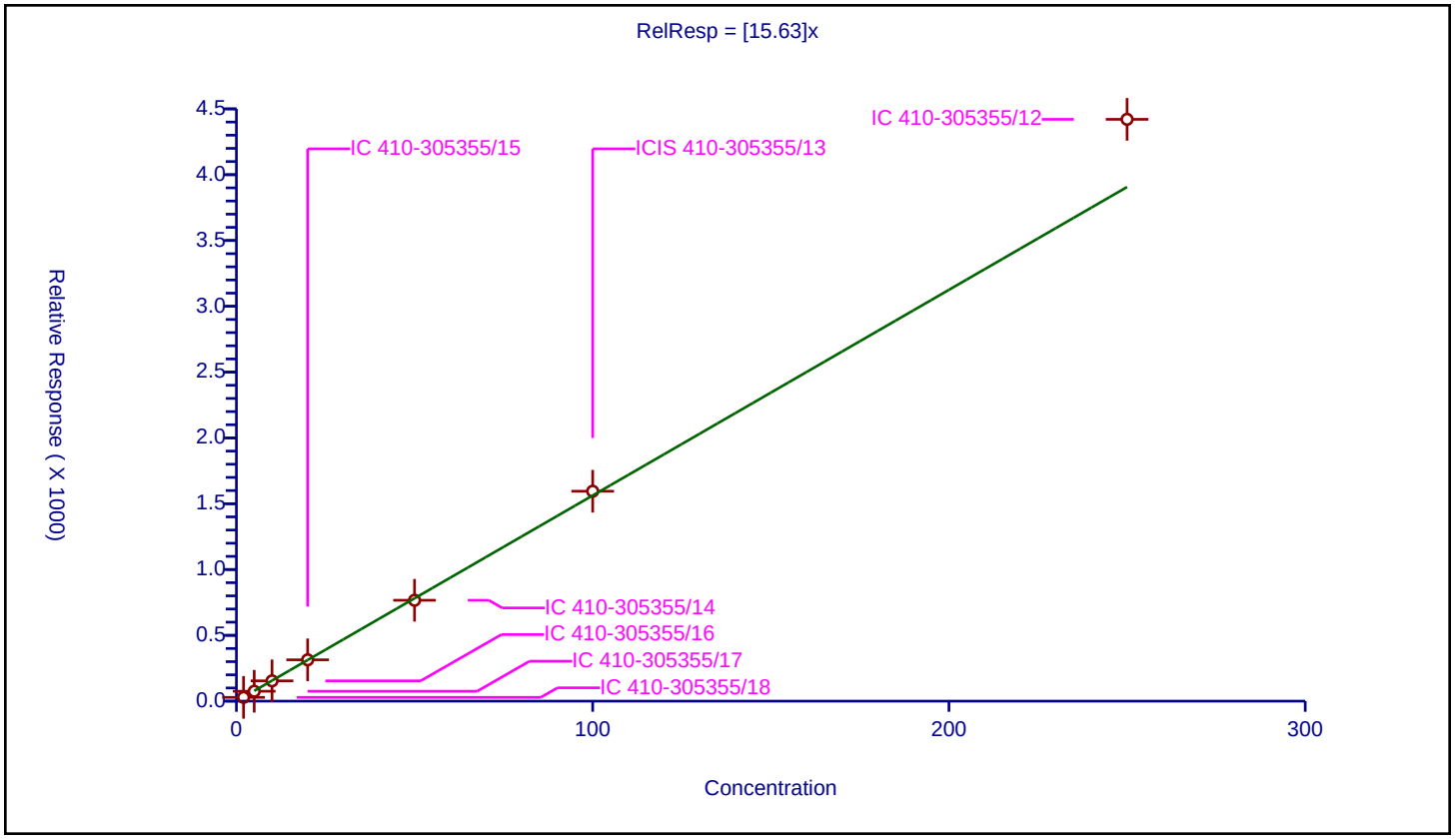
Curve Coefficients

Intercept:	0
Slope:	15.63

Error Coefficients

Standard Error:	4550000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	2.0	28.551905	50.0	127685.0	14.275953	Y
2	IC 410-305355/17	5.0	75.233451	50.0	127650.0	15.04669	Y
3	IC 410-305355/16	10.0	154.042315	50.0	129740.0	15.404232	Y
4	IC 410-305355/15	20.0	313.901107	50.0	135500.0	15.695055	Y
5	IC 410-305355/14	50.0	766.395466	50.0	130469.0	15.327909	Y
6	ICIS 410-305355/13	100.0	1594.977288	50.0	130547.0	15.949773	Y
7	IC 410-305355/12	250.0	4420.622823	50.0	114286.0	17.682491	Y



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Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

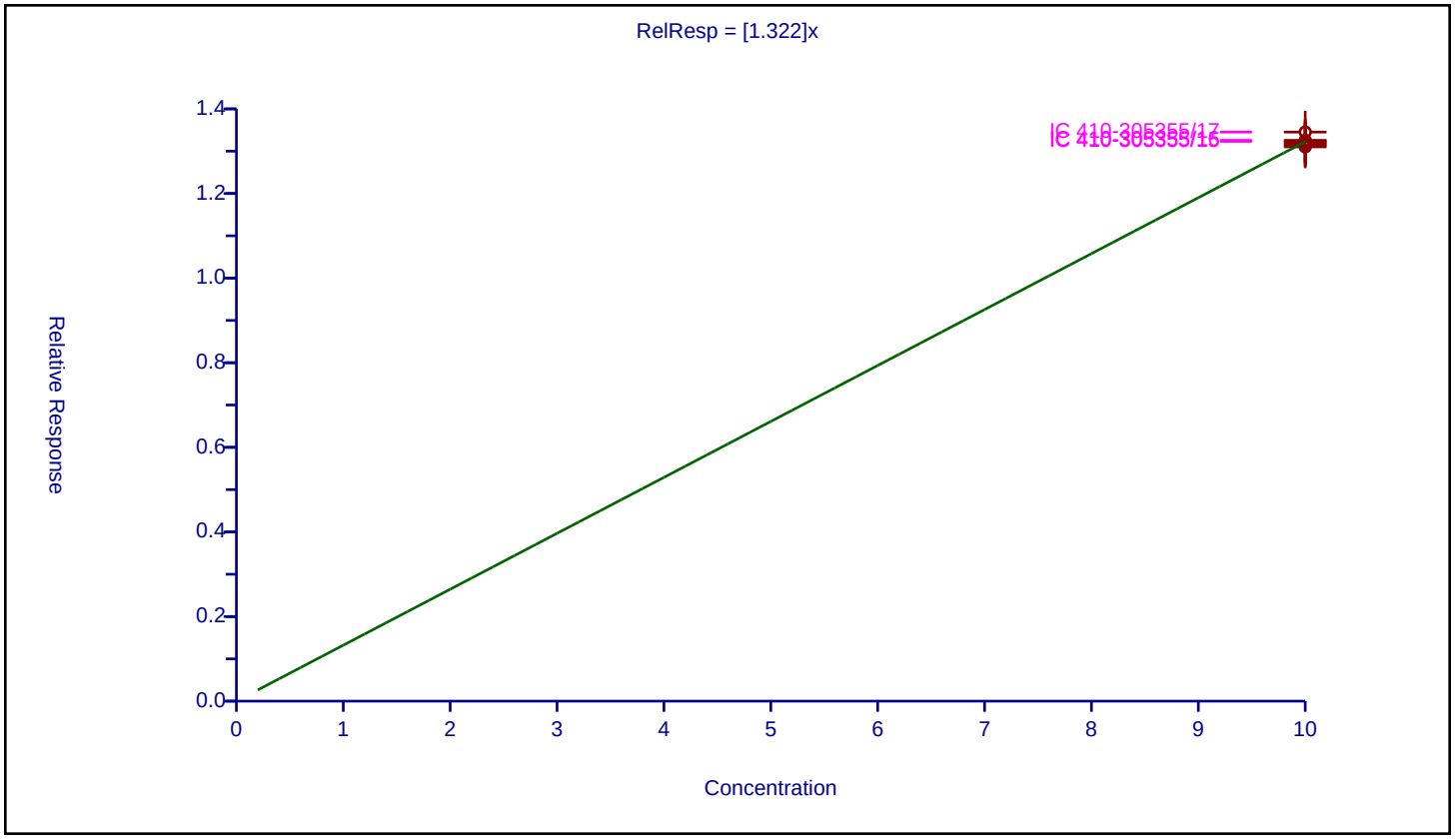
Curve Coefficients

Intercept:	0
Slope:	1.322

Error Coefficients

Standard Error:	2570000
Relative Standard Error:	0.9
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/12	10.0	13.169707	10.0	1833406.0	1.316971	Y
2	ICIS 410-305355/13	10.0	13.210487	10.0	1799294.0	1.321049	Y
3	IC 410-305355/14	10.0	13.102273	10.0	1808345.0	1.310227	Y
4	IC 410-305355/15	10.0	13.232423	10.0	1768404.0	1.323242	Y
5	IC 410-305355/16	10.0	13.256281	10.0	1786805.0	1.325628	Y
6	IC 410-305355/17	10.0	13.451924	10.0	1786094.0	1.345192	Y
7	IC 410-305355/18	10.0	13.136661	10.0	1792731.0	1.313666	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

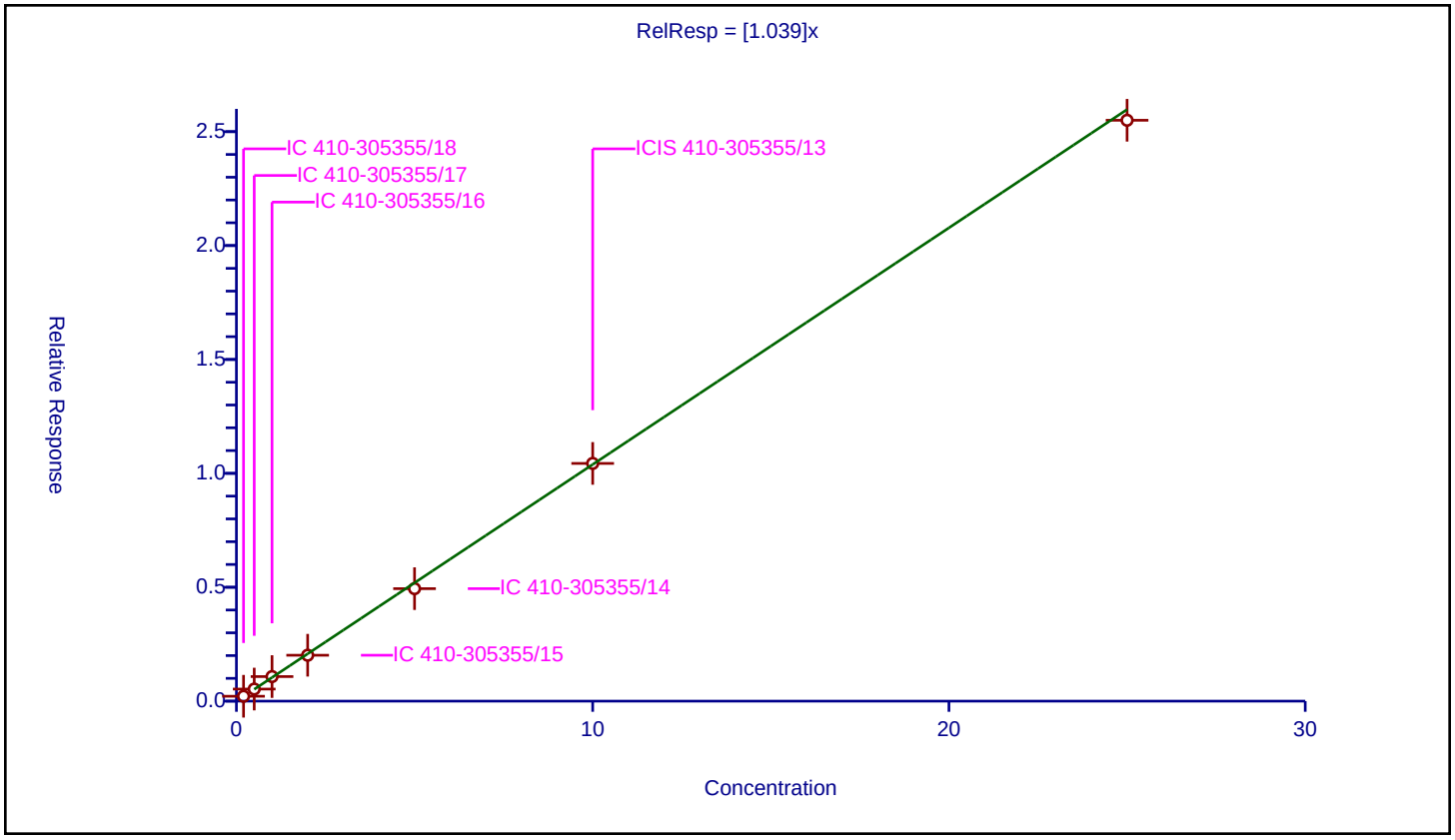
Curve Coefficients

Intercept:	0
Slope:	1.039

Error Coefficients

Standard Error:	2100000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.215029	10.0	1792731.0	1.075147	Y
2	IC 410-305355/17	0.5	0.529787	10.0	1786094.0	1.059575	Y
3	IC 410-305355/16	1.0	1.079038	10.0	1786805.0	1.079038	Y
4	IC 410-305355/15	2.0	2.014969	10.0	1768404.0	1.007485	Y
5	IC 410-305355/14	5.0	4.938394	10.0	1808345.0	0.987679	Y
6	ICIS 410-305355/13	10.0	10.435738	10.0	1799294.0	1.043574	Y
7	IC 410-305355/12	25.0	25.501269	10.0	1833406.0	1.020051	Y



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Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

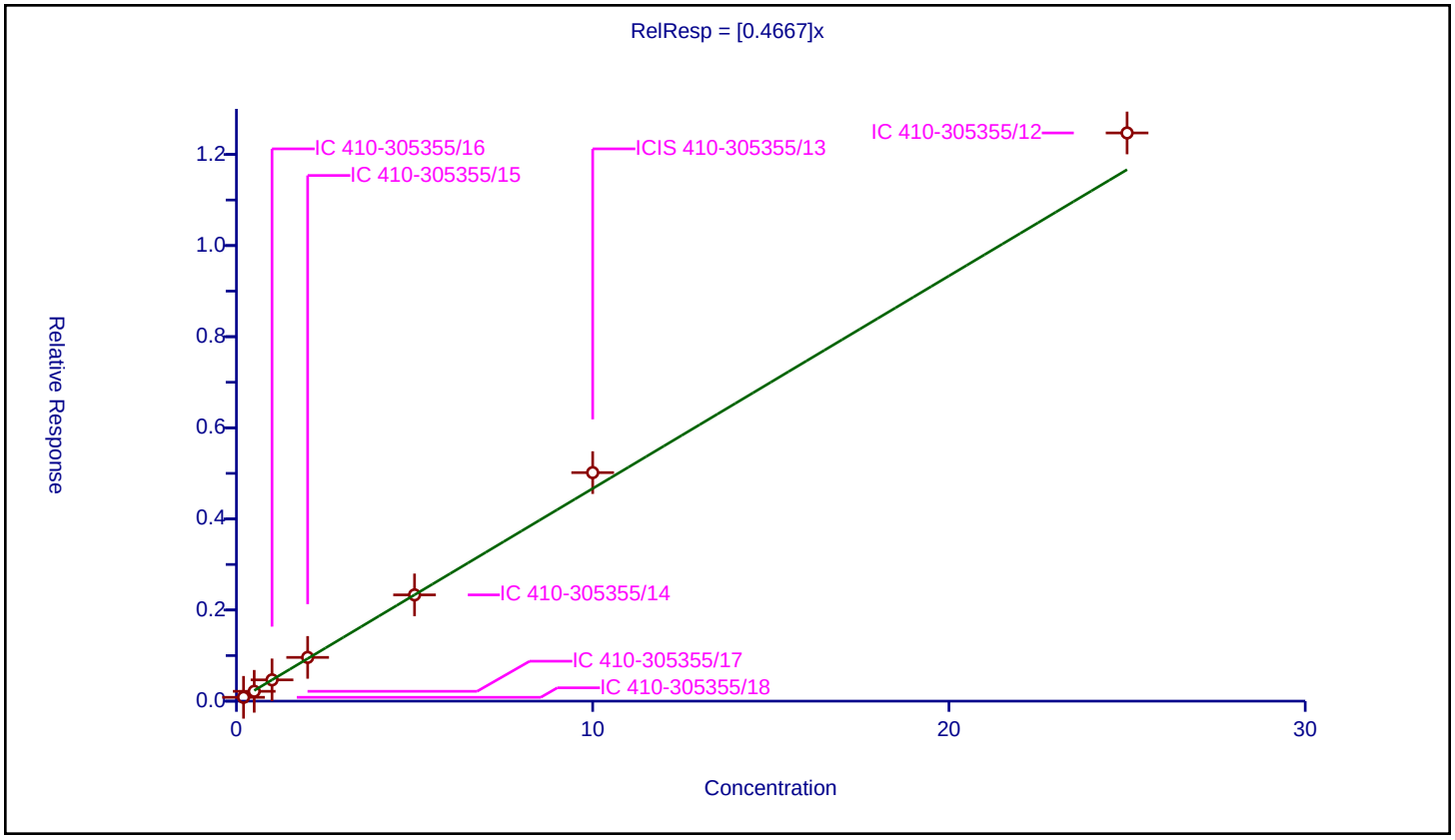
Curve Coefficients

Intercept:	0
Slope:	0.4667

Error Coefficients

Standard Error:	1020000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.084045	10.0	1792731.0	0.420225	Y
2	IC 410-305355/17	0.5	0.216282	10.0	1786094.0	0.432564	Y
3	IC 410-305355/16	1.0	0.466923	10.0	1786805.0	0.466923	Y
4	IC 410-305355/15	2.0	0.960256	10.0	1768404.0	0.480128	Y
5	IC 410-305355/14	5.0	2.332315	10.0	1808345.0	0.466463	Y
6	ICIS 410-305355/13	10.0	5.016184	10.0	1799294.0	0.501618	Y
7	IC 410-305355/12	25.0	12.471978	10.0	1833406.0	0.498879	Y



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Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

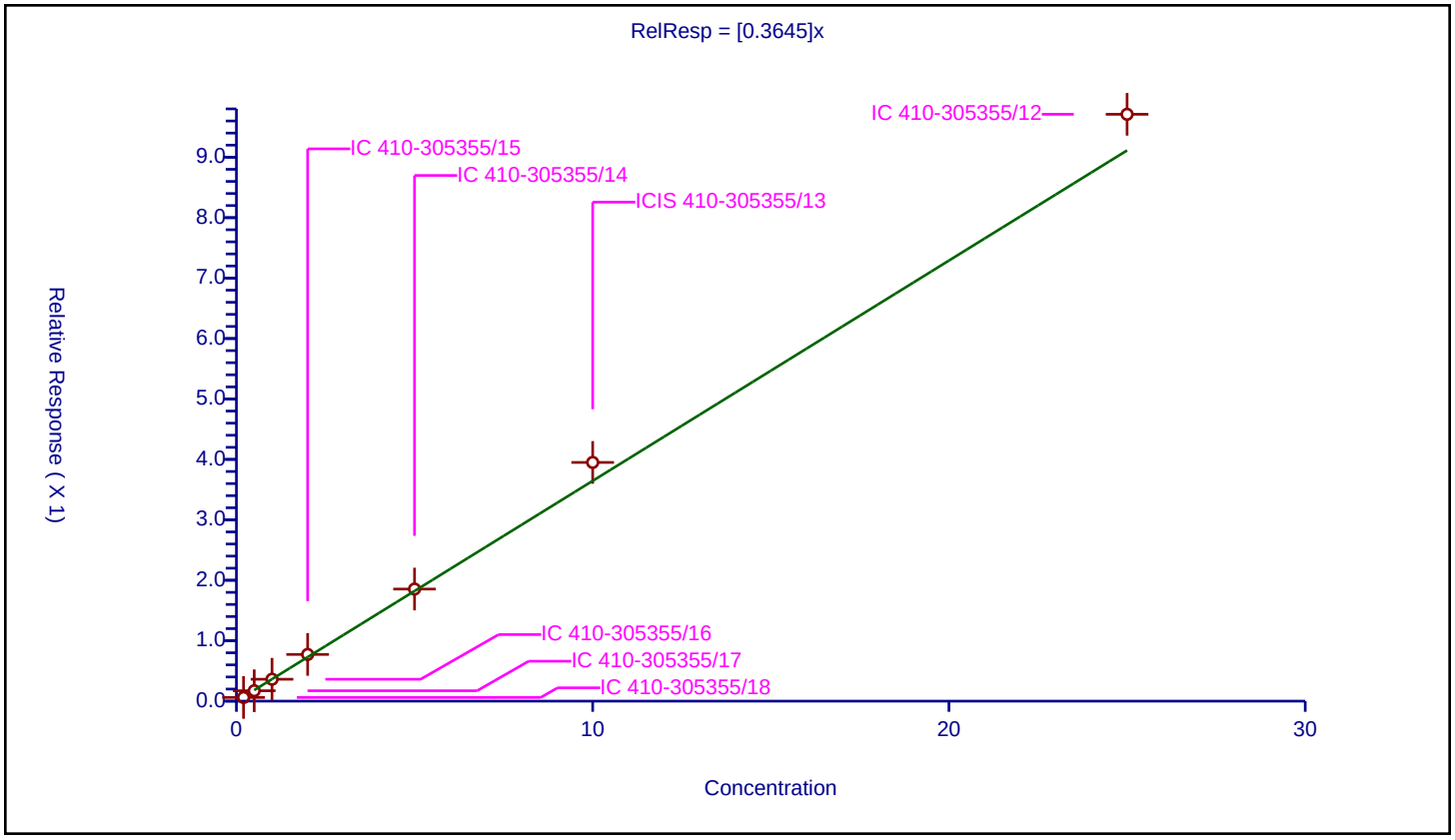
Curve Coefficients

Intercept:	0
Slope:	0.3645

Error Coefficients

Standard Error:	797000
Relative Standard Error:	8.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.060896	10.0	1792731.0	0.30448	Y
2	IC 410-305355/17	0.5	0.172091	10.0	1786094.0	0.344181	Y
3	IC 410-305355/16	1.0	0.362272	10.0	1786805.0	0.362272	Y
4	IC 410-305355/15	2.0	0.772651	10.0	1768404.0	0.386326	Y
5	IC 410-305355/14	5.0	1.854536	10.0	1808345.0	0.370907	Y
6	ICIS 410-305355/13	10.0	3.949738	10.0	1799294.0	0.394974	Y
7	IC 410-305355/12	25.0	9.71067	10.0	1833406.0	0.388427	Y



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Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

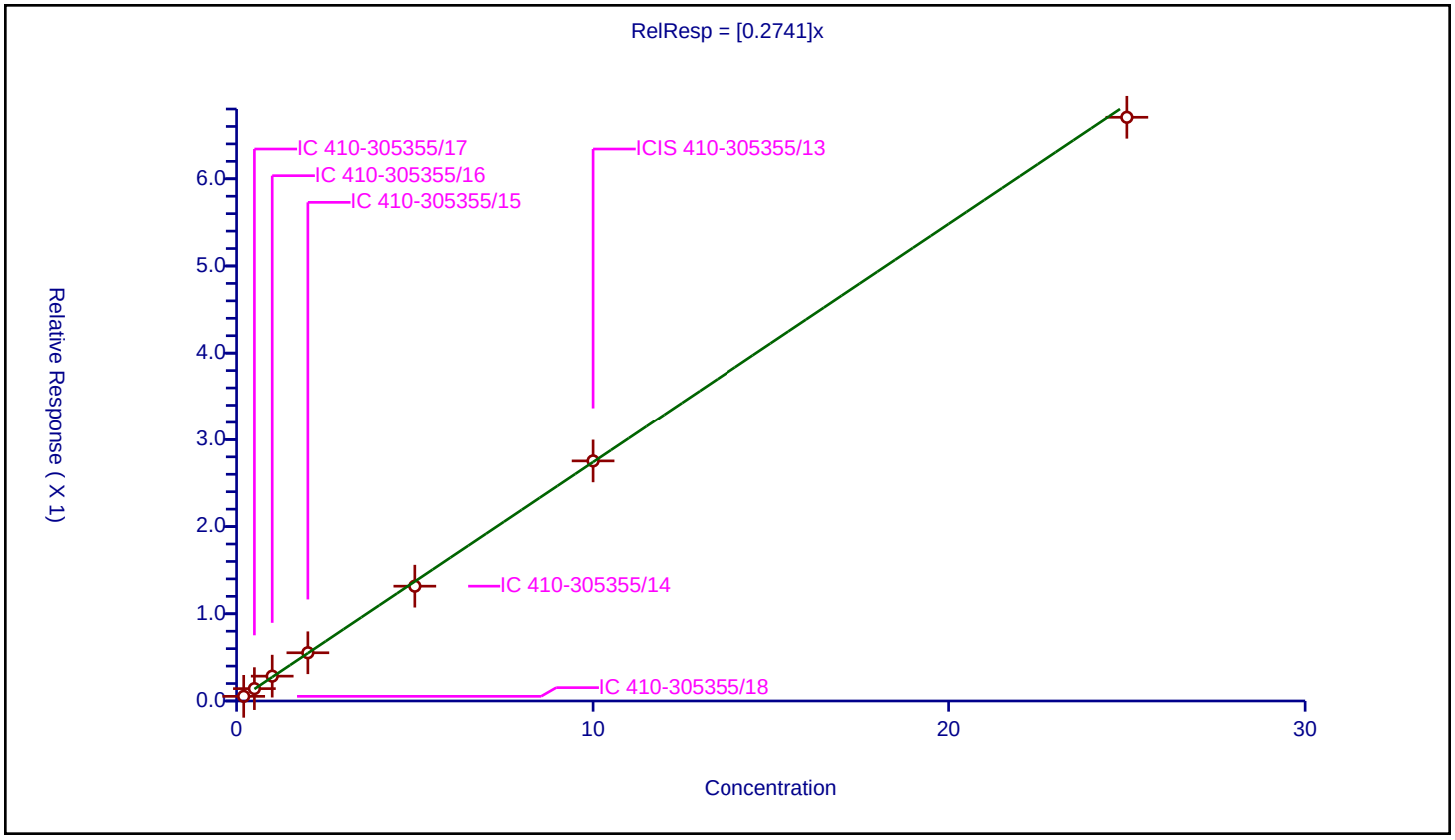
Curve Coefficients

Intercept:	0
Slope:	0.2741

Error Coefficients

Standard Error:	552000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.053444	10.0	1792731.0	0.267218	Y
2	IC 410-305355/17	0.5	0.141683	10.0	1786094.0	0.283367	Y
3	IC 410-305355/16	1.0	0.284748	10.0	1786805.0	0.284748	Y
4	IC 410-305355/15	2.0	0.553098	10.0	1768404.0	0.276549	Y
5	IC 410-305355/14	5.0	1.316502	10.0	1808345.0	0.2633	Y
6	ICIS 410-305355/13	10.0	2.753658	10.0	1799294.0	0.275366	Y
7	IC 410-305355/12	25.0	6.705176	10.0	1833406.0	0.268207	Y



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Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

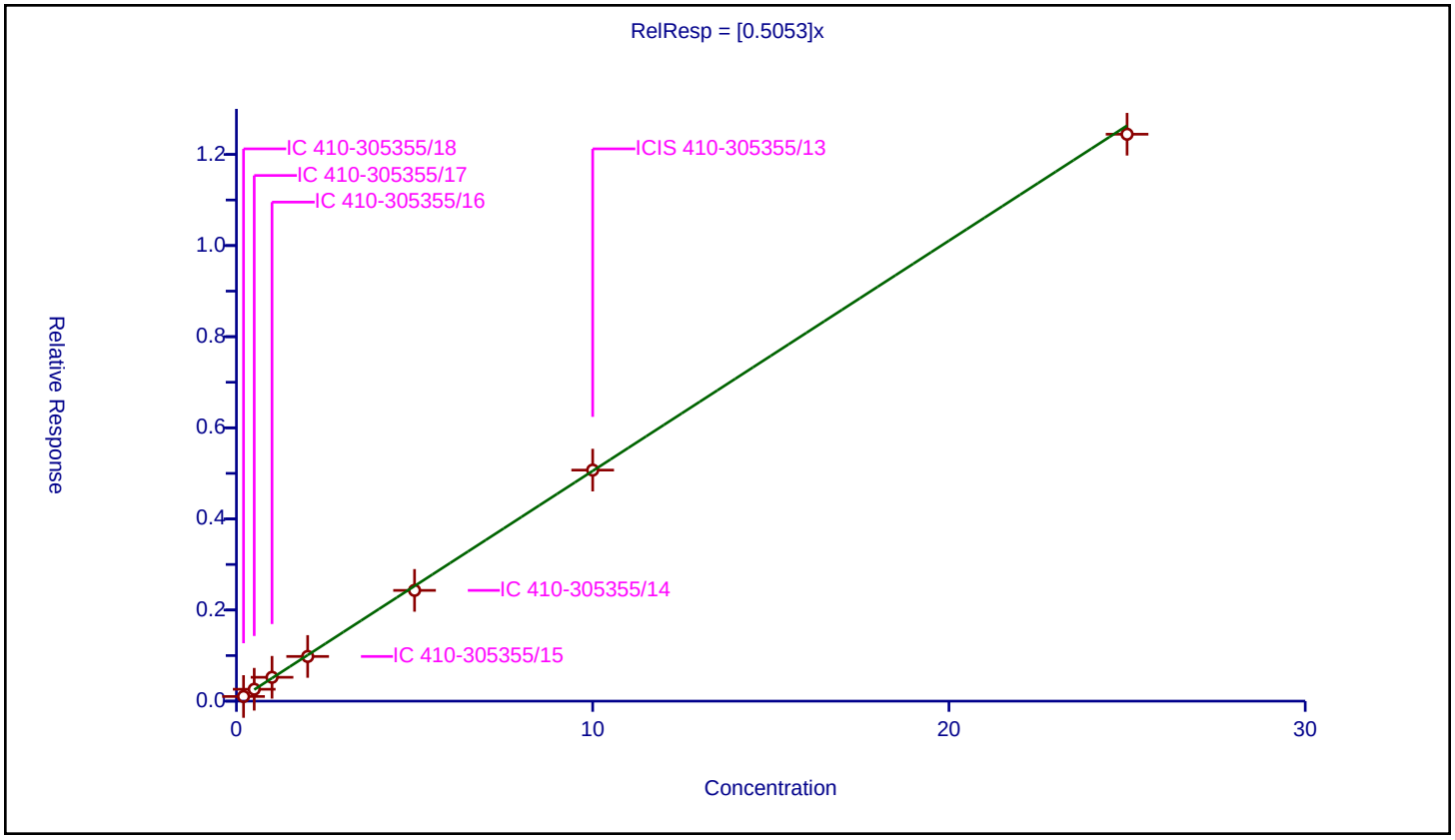
Curve Coefficients

Intercept:	0
Slope:	0.5053

Error Coefficients

Standard Error:	1020000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.102107	10.0	1792731.0	0.510534	Y
2	IC 410-305355/17	0.5	0.260871	10.0	1786094.0	0.521742	Y
3	IC 410-305355/16	1.0	0.523594	10.0	1786805.0	0.523594	Y
4	IC 410-305355/15	2.0	0.980506	10.0	1768404.0	0.490253	Y
5	IC 410-305355/14	5.0	2.431372	10.0	1808345.0	0.486274	Y
6	ICIS 410-305355/13	10.0	5.071545	10.0	1799294.0	0.507154	Y
7	IC 410-305355/12	25.0	12.443758	10.0	1833406.0	0.49775	Y



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Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

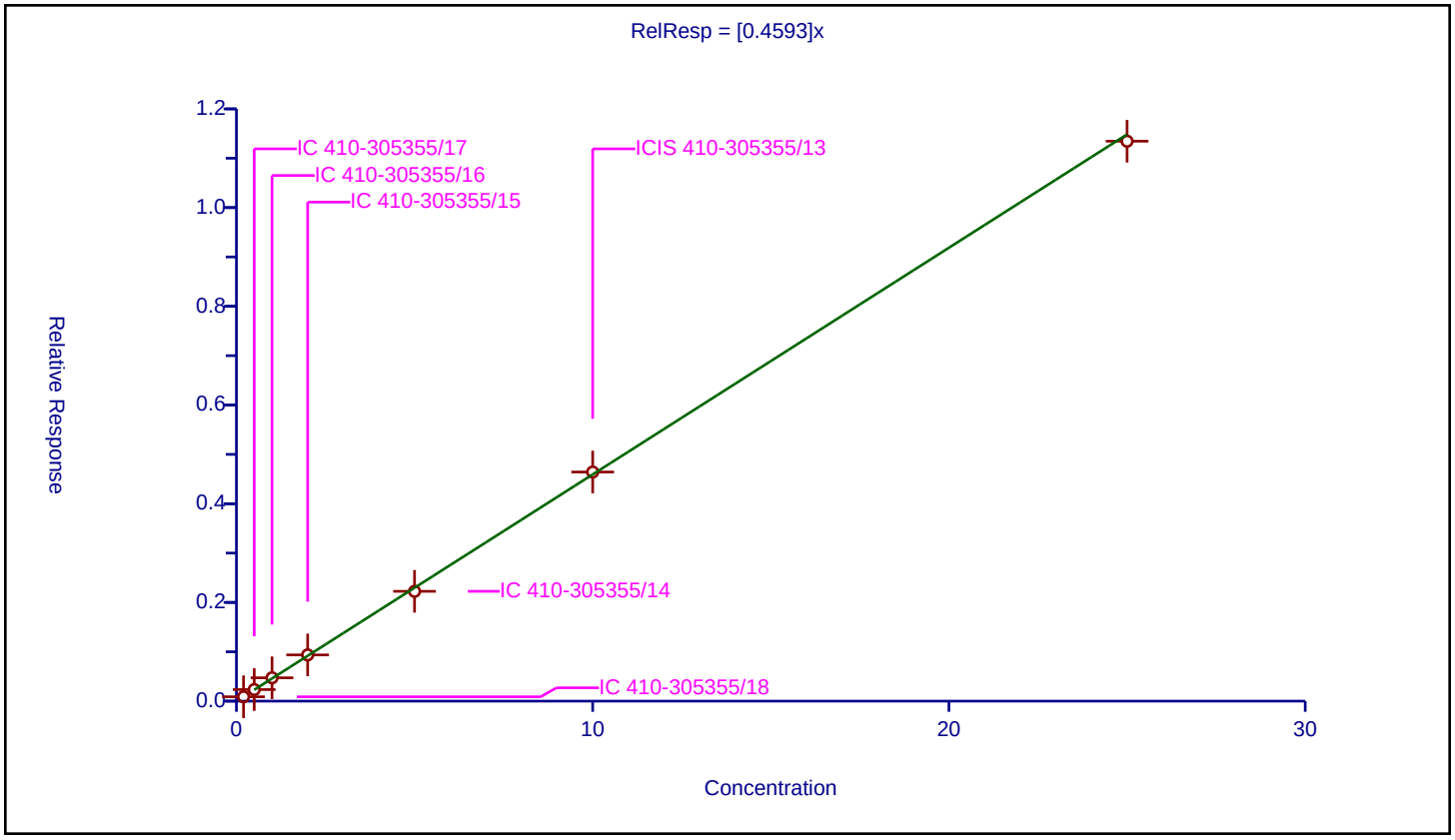
Curve Coefficients

Intercept:	0
Slope:	0.4593

Error Coefficients

Standard Error:	933000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.088463	10.0	1792731.0	0.442314	Y
2	IC 410-305355/17	0.5	0.23426	10.0	1786094.0	0.46852	Y
3	IC 410-305355/16	1.0	0.473202	10.0	1786805.0	0.473202	Y
4	IC 410-305355/15	2.0	0.936545	10.0	1768404.0	0.468273	Y
5	IC 410-305355/14	5.0	2.225234	10.0	1808345.0	0.445047	Y
6	ICIS 410-305355/13	10.0	4.642199	10.0	1799294.0	0.46422	Y
7	IC 410-305355/12	25.0	11.345299	10.0	1833406.0	0.453812	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

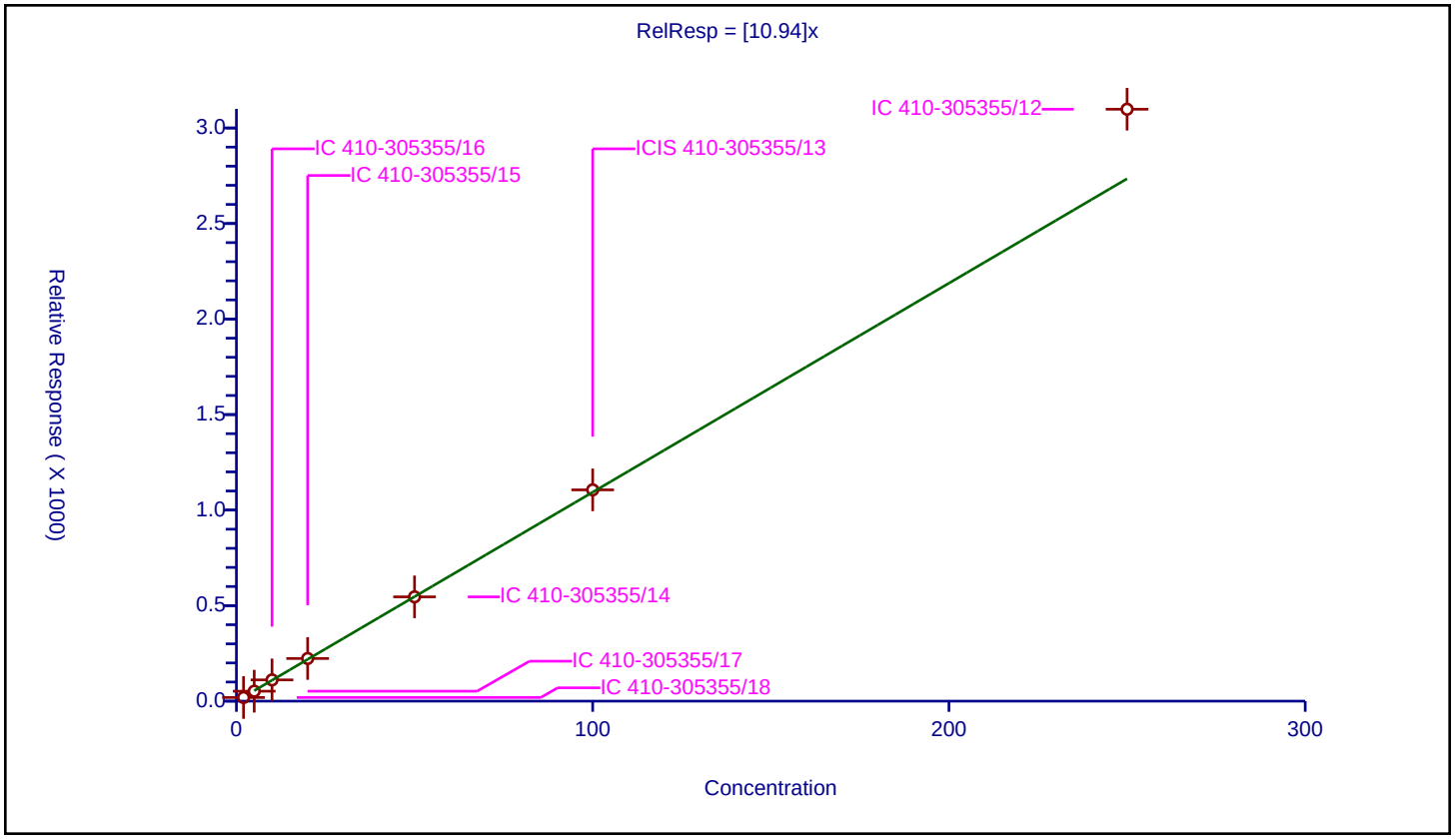
Curve Coefficients

Intercept:	0
Slope:	10.94

Error Coefficients

Standard Error:	3190000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	2.0	19.004582	50.0	127685.0	9.502291	Y
2	IC 410-305355/17	5.0	52.098707	50.0	127650.0	10.419741	Y
3	IC 410-305355/16	10.0	111.11261	50.0	129740.0	11.111261	Y
4	IC 410-305355/15	20.0	223.272325	50.0	135500.0	11.163616	Y
5	IC 410-305355/14	50.0	545.895577	50.0	130469.0	10.917912	Y
6	ICIS 410-305355/13	100.0	1105.814764	50.0	130547.0	11.058148	Y
7	IC 410-305355/12	250.0	3098.253504	50.0	114286.0	12.393014	Y



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Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

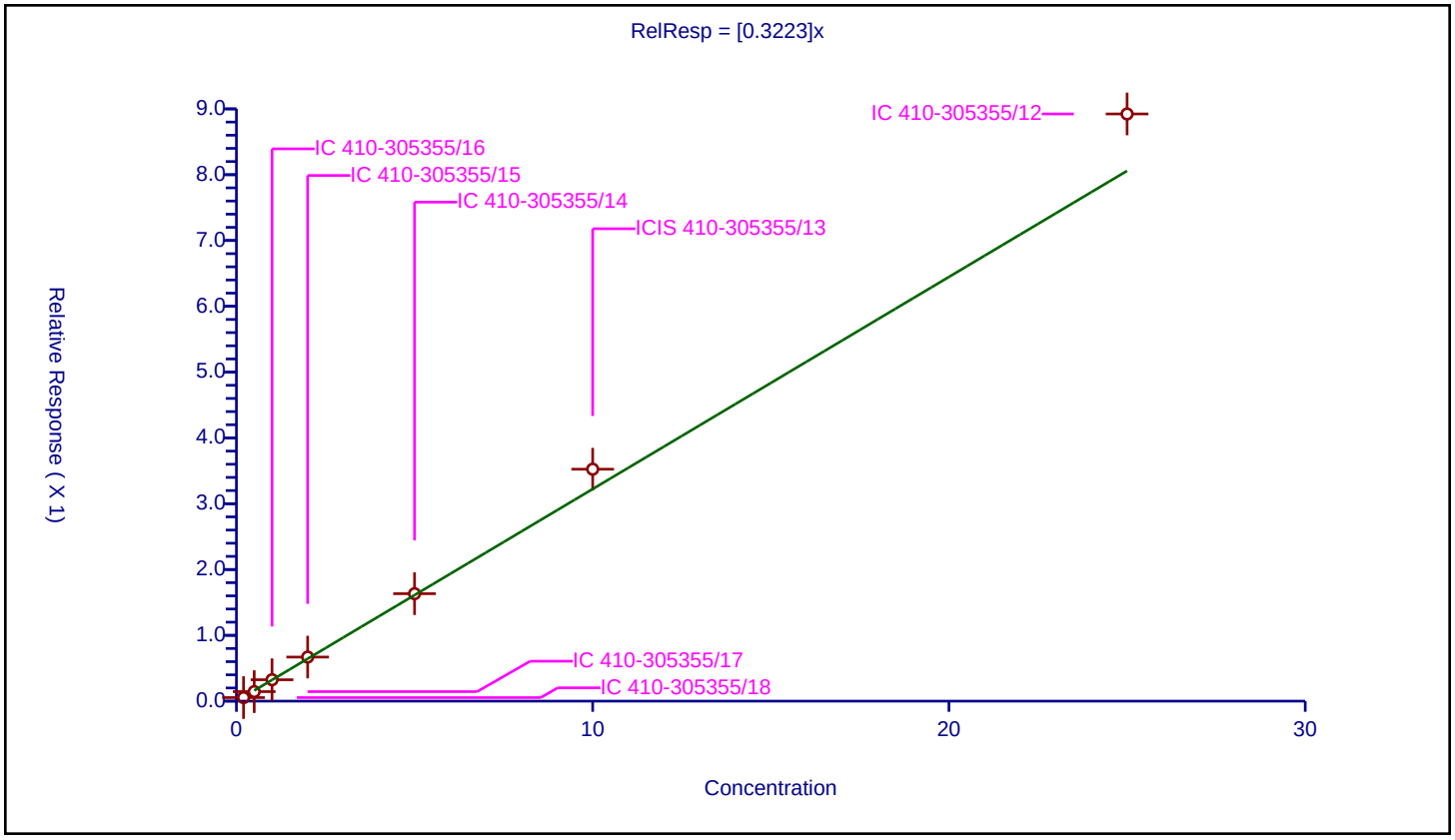
Curve Coefficients

Intercept:	0
Slope:	0.3223

Error Coefficients

Standard Error:	728000
Relative Standard Error:	9.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.054225	10.0	1792731.0	0.271123	Y
2	IC 410-305355/17	0.5	0.144645	10.0	1786094.0	0.28929	Y
3	IC 410-305355/16	1.0	0.325055	10.0	1786805.0	0.325055	Y
4	IC 410-305355/15	2.0	0.669745	10.0	1768404.0	0.334873	Y
5	IC 410-305355/14	5.0	1.632836	10.0	1808345.0	0.326567	Y
6	ICIS 410-305355/13	10.0	3.524838	10.0	1799294.0	0.352484	Y
7	IC 410-305355/12	25.0	8.923054	10.0	1833406.0	0.356922	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

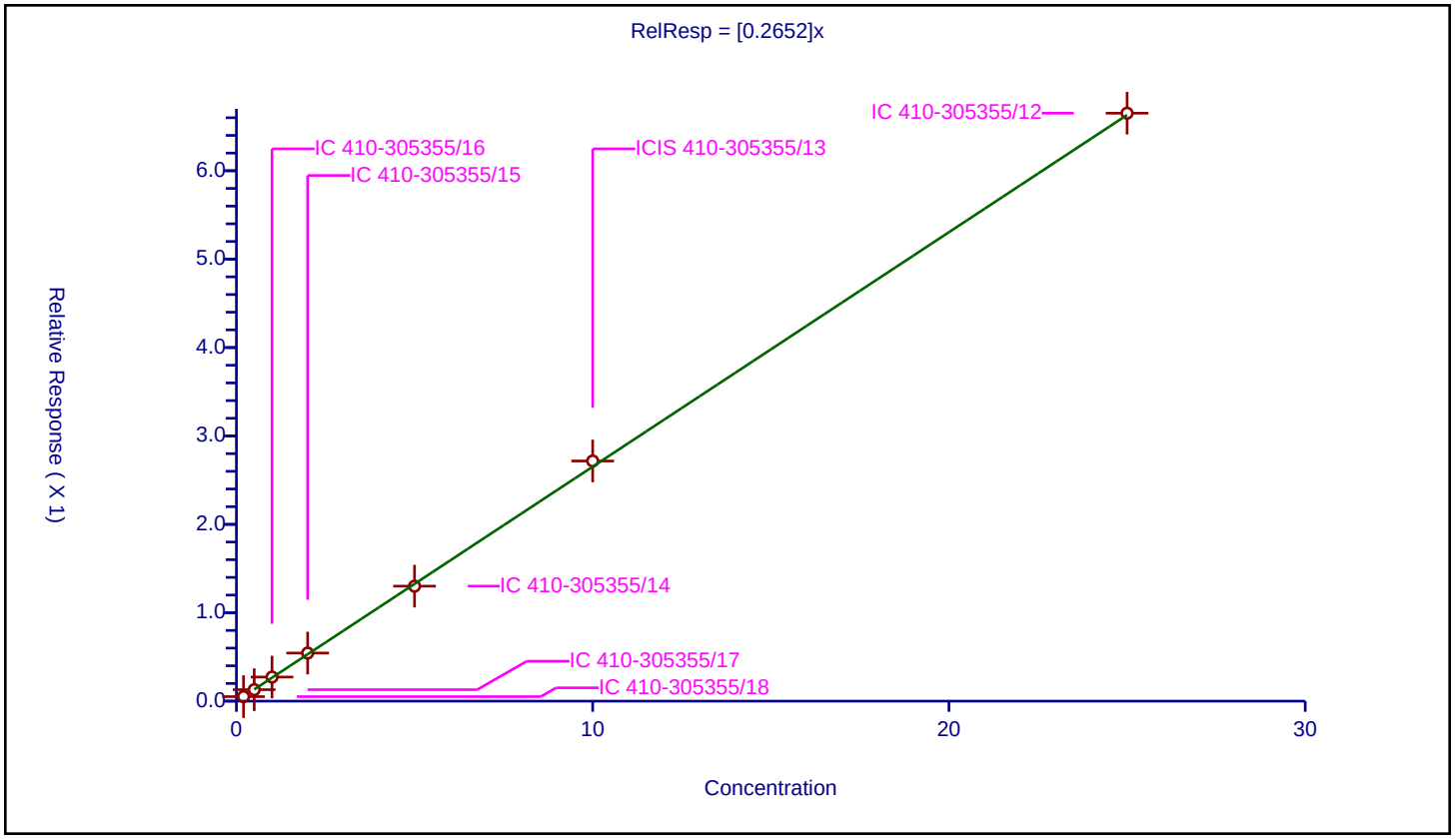
Curve Coefficients

Intercept:	0
Slope:	0.2652

Error Coefficients

Standard Error:	547000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.051017	10.0	1792731.0	0.255086	Y
2	IC 410-305355/17	0.5	0.12964	10.0	1786094.0	0.259281	Y
3	IC 410-305355/16	1.0	0.272425	10.0	1786805.0	0.272425	Y
4	IC 410-305355/15	2.0	0.544039	10.0	1768404.0	0.272019	Y
5	IC 410-305355/14	5.0	1.300847	10.0	1808345.0	0.260169	Y
6	ICIS 410-305355/13	10.0	2.716738	10.0	1799294.0	0.271674	Y
7	IC 410-305355/12	25.0	6.65132	10.0	1833406.0	0.266053	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

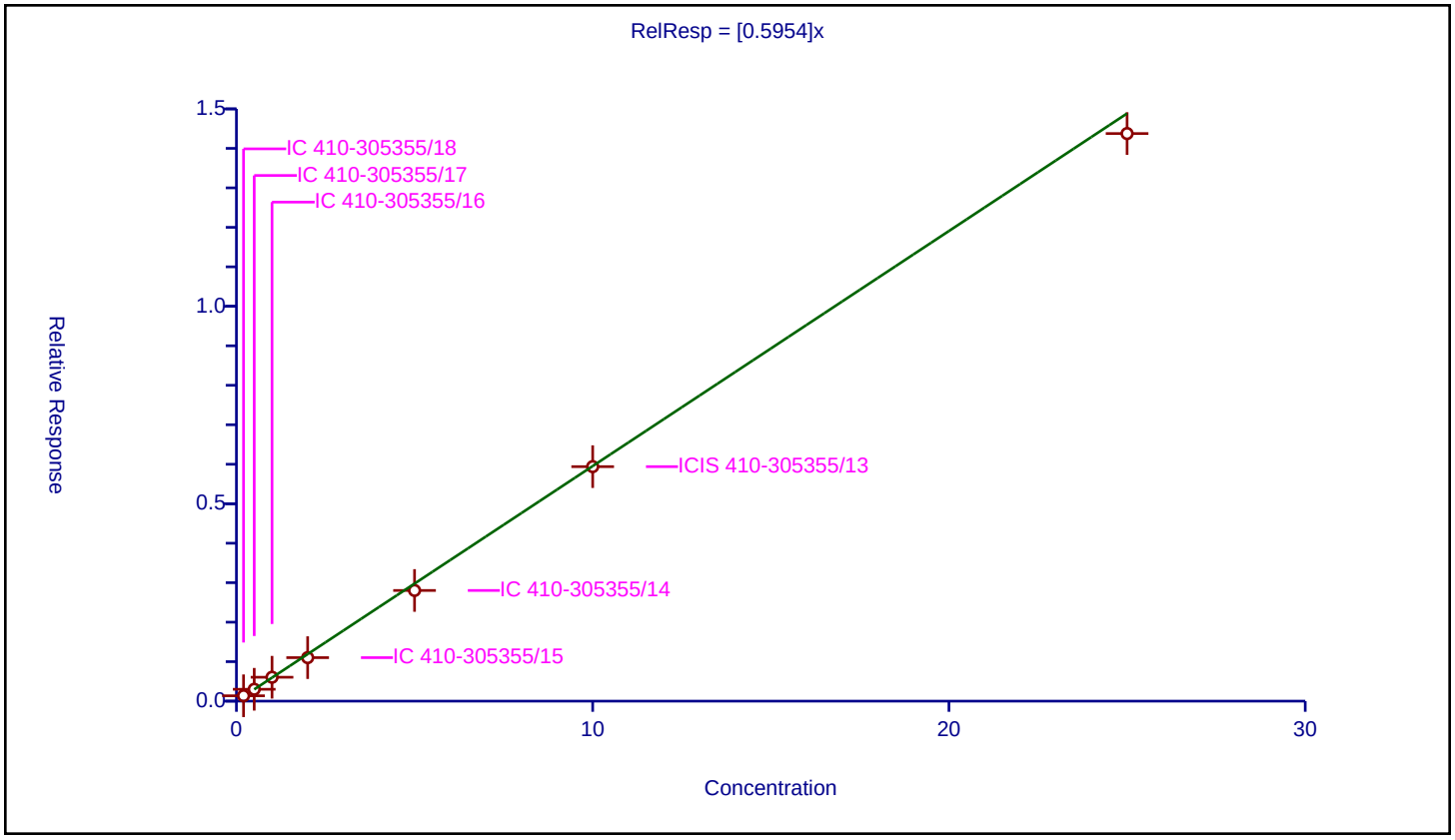
Curve Coefficients

Intercept:	0
Slope:	0.5954

Error Coefficients

Standard Error:	1180000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.136027	10.0	1792731.0	0.680136	Y
2	IC 410-305355/17	0.5	0.30079	10.0	1786094.0	0.601581	Y
3	IC 410-305355/16	1.0	0.605226	10.0	1786805.0	0.605226	Y
4	IC 410-305355/15	2.0	1.102067	10.0	1768404.0	0.551034	Y
5	IC 410-305355/14	5.0	2.803165	10.0	1808345.0	0.560633	Y
6	ICIS 410-305355/13	10.0	5.939124	10.0	1799294.0	0.593912	Y
7	IC 410-305355/12	25.0	14.375332	10.0	1833406.0	0.575013	Y



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Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

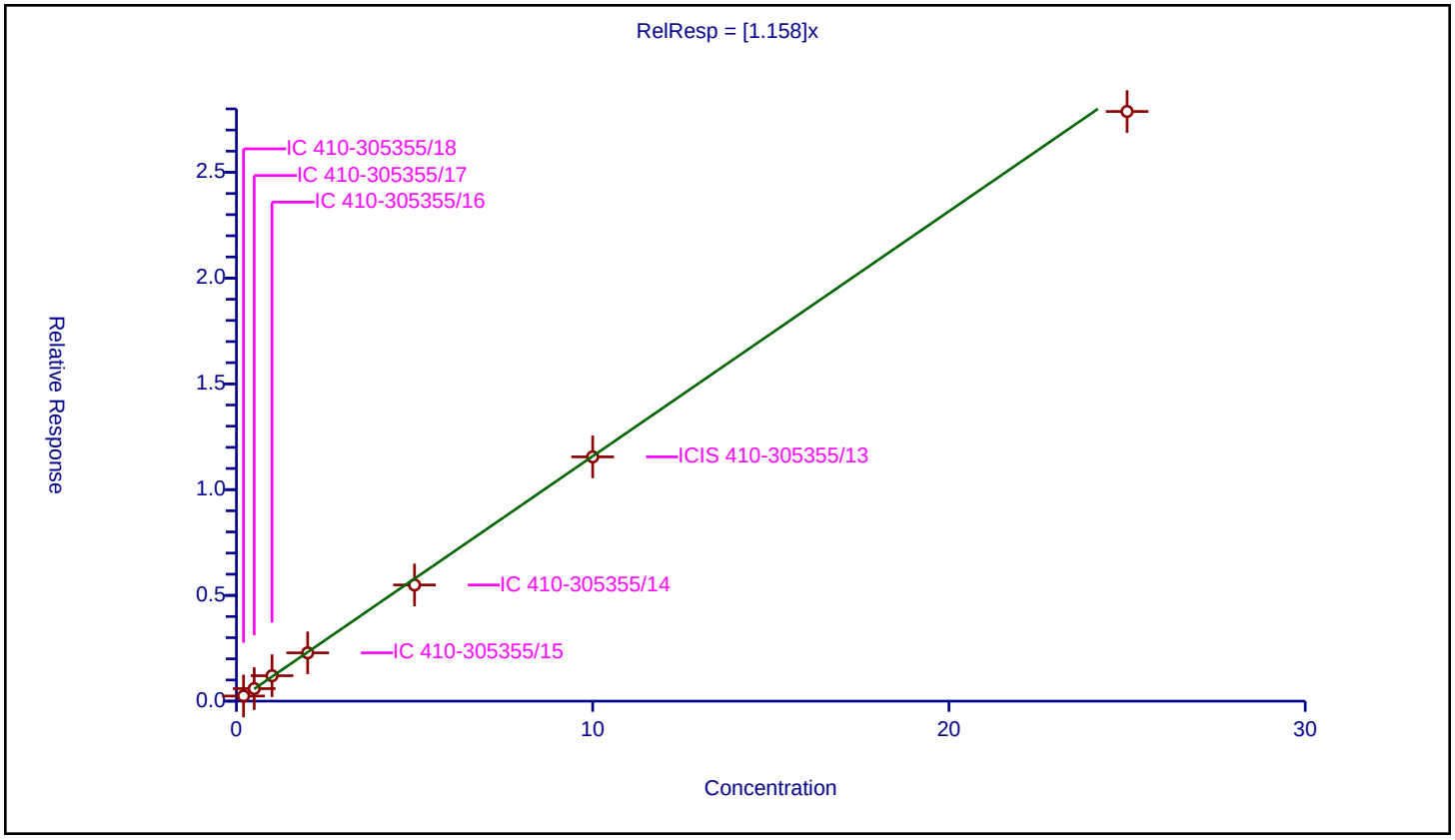
Curve Coefficients

Intercept:	0
Slope:	1.158

Error Coefficients

Standard Error:	2300000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.241888	10.0	1792731.0	1.20944	Y
2	IC 410-305355/17	0.5	0.592085	10.0	1786094.0	1.184171	Y
3	IC 410-305355/16	1.0	1.201536	10.0	1786805.0	1.201536	Y
4	IC 410-305355/15	2.0	2.283545	10.0	1768404.0	1.141772	Y
5	IC 410-305355/14	5.0	5.493111	10.0	1808345.0	1.098622	Y
6	ICIS 410-305355/13	10.0	11.549074	10.0	1799294.0	1.154907	Y
7	IC 410-305355/12	25.0	27.87615	10.0	1833406.0	1.115046	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

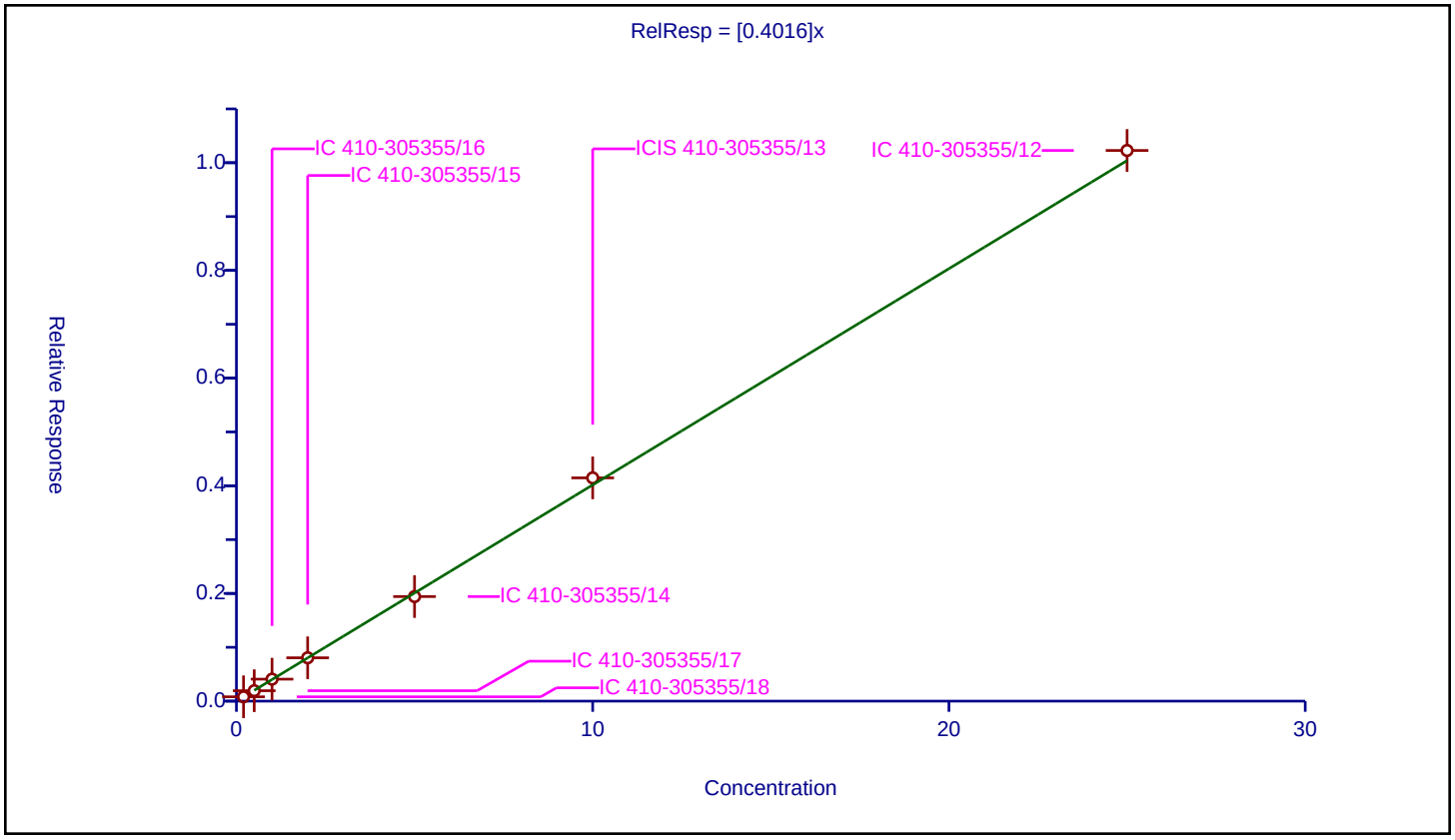
Curve Coefficients

Intercept:	0
Slope:	0.4016

Error Coefficients

Standard Error:	839000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.080213	10.0	1792731.0	0.401064	Y
2	IC 410-305355/17	0.5	0.19345	10.0	1786094.0	0.3869	Y
3	IC 410-305355/16	1.0	0.408366	10.0	1786805.0	0.408366	Y
4	IC 410-305355/15	2.0	0.805268	10.0	1768404.0	0.402634	Y
5	IC 410-305355/14	5.0	1.942611	10.0	1808345.0	0.388522	Y
6	ICIS 410-305355/13	10.0	4.146654	10.0	1799294.0	0.414665	Y
7	IC 410-305355/12	25.0	10.227784	10.0	1833406.0	0.409111	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

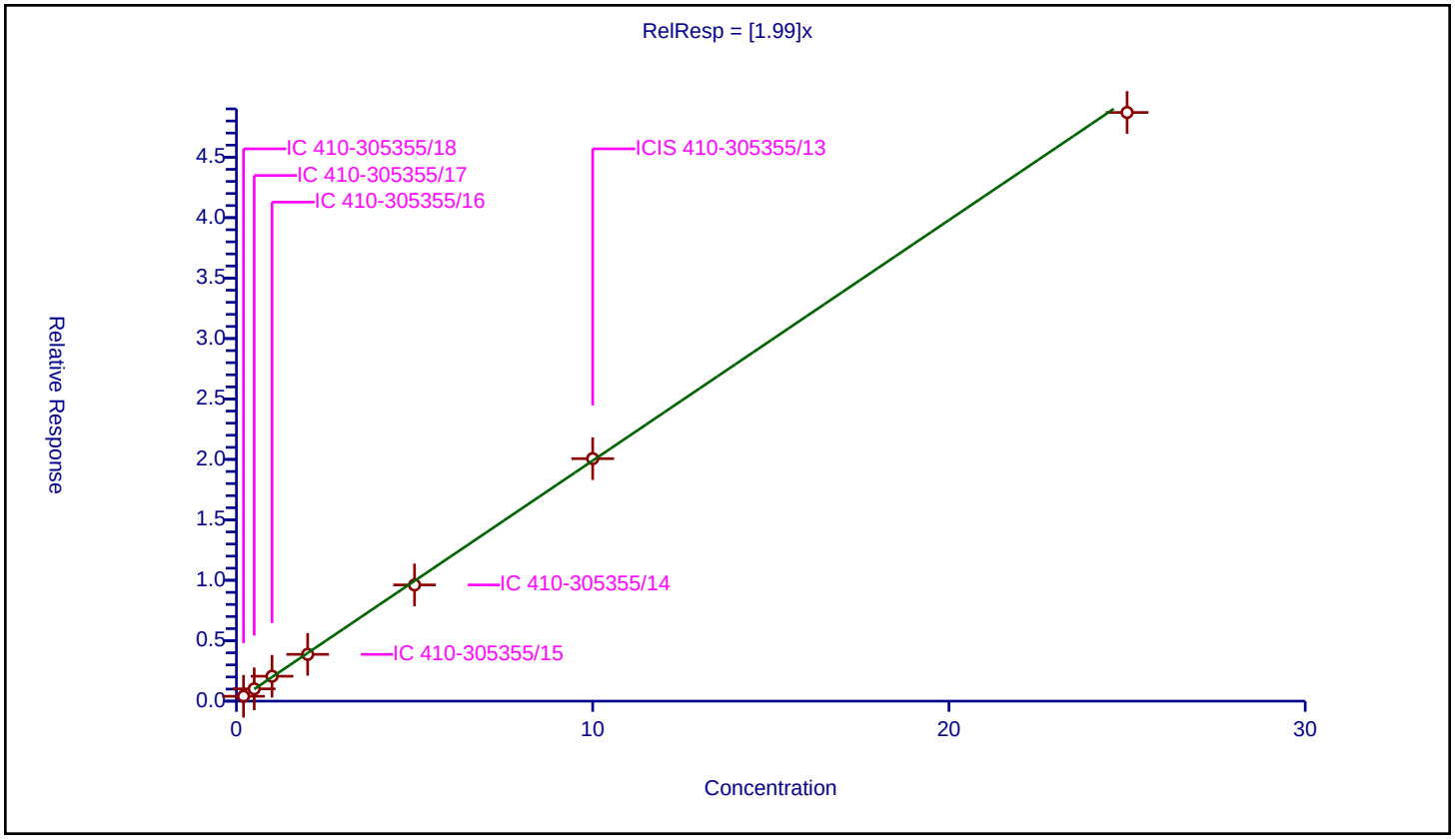
Curve Coefficients

Intercept:	0
Slope:	1.99

Error Coefficients

Standard Error:	4010000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.404322	10.0	1792731.0	2.021608	Y
2	IC 410-305355/17	0.5	1.016912	10.0	1786094.0	2.033824	Y
3	IC 410-305355/16	1.0	2.060499	10.0	1786805.0	2.060499	Y
4	IC 410-305355/15	2.0	3.871474	10.0	1768404.0	1.935737	Y
5	IC 410-305355/14	5.0	9.615228	10.0	1808345.0	1.923046	Y
6	ICIS 410-305355/13	10.0	20.063025	10.0	1799294.0	2.006302	Y
7	IC 410-305355/12	25.0	48.702906	10.0	1833406.0	1.948116	Y



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Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

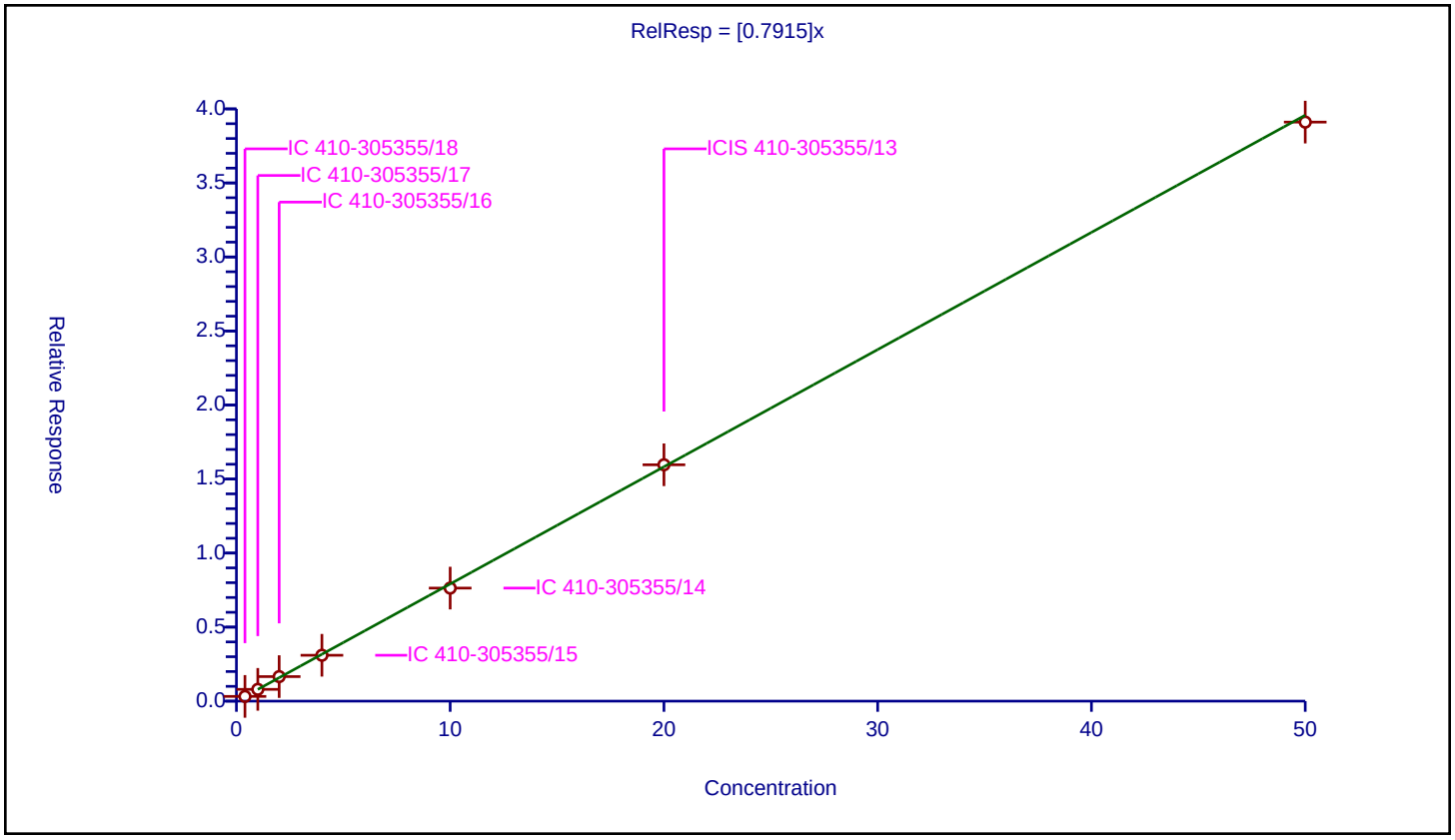
Curve Coefficients

Intercept:	0
Slope:	0.7915

Error Coefficients

Standard Error:	3210000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.4	0.318944	10.0	1792731.0	0.797359	Y
2	IC 410-305355/17	1.0	0.795921	10.0	1786094.0	0.795921	Y
3	IC 410-305355/16	2.0	1.657349	10.0	1786805.0	0.828675	Y
4	IC 410-305355/15	4.0	3.0988	10.0	1768404.0	0.7747	Y
5	IC 410-305355/14	10.0	7.634627	10.0	1808345.0	0.763463	Y
6	ICIS 410-305355/13	20.0	15.963183	10.0	1799294.0	0.798159	Y
7	IC 410-305355/12	50.0	39.107214	10.0	1833406.0	0.782144	Y



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Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

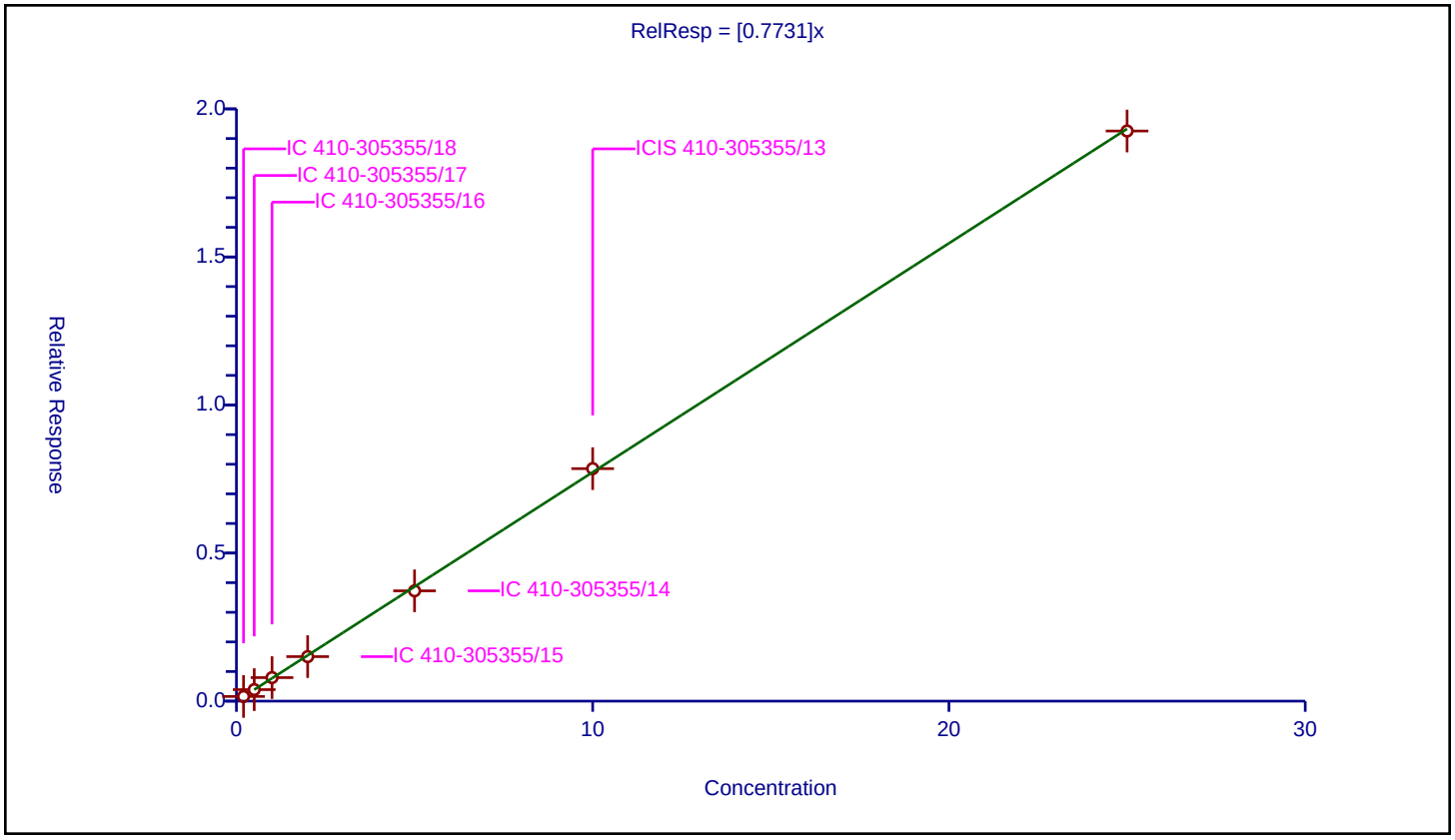
Curve Coefficients

Intercept:	0
Slope:	0.7731

Error Coefficients

Standard Error:	1580000
Relative Standard Error:	2.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.15748	10.0	1792731.0	0.787402	Y
2	IC 410-305355/17	0.5	0.388843	10.0	1786094.0	0.777686	Y
3	IC 410-305355/16	1.0	0.794524	10.0	1786805.0	0.794524	Y
4	IC 410-305355/15	2.0	1.503316	10.0	1768404.0	0.751658	Y
5	IC 410-305355/14	5.0	3.724754	10.0	1808345.0	0.744951	Y
6	ICIS 410-305355/13	10.0	7.85168	10.0	1799294.0	0.785168	Y
7	IC 410-305355/12	25.0	19.253553	10.0	1833406.0	0.770142	Y



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Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

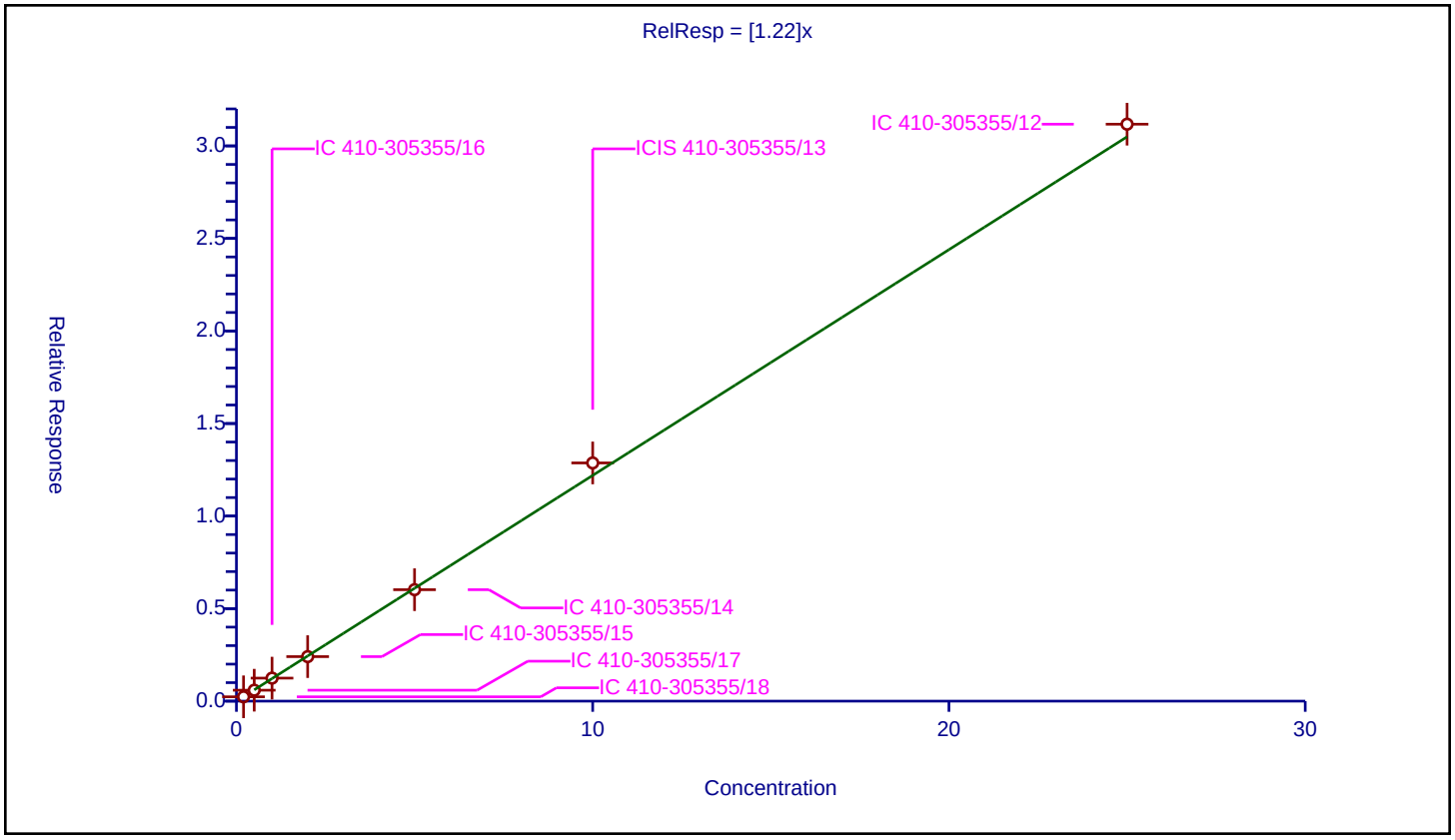
Curve Coefficients

Intercept:	0
Slope:	1.22

Error Coefficients

Standard Error:	2560000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.234341	10.0	1792731.0	1.171704	Y
2	IC 410-305355/17	0.5	0.590271	10.0	1786094.0	1.180543	Y
3	IC 410-305355/16	1.0	1.244652	10.0	1786805.0	1.244652	Y
4	IC 410-305355/15	2.0	2.405655	10.0	1768404.0	1.202828	Y
5	IC 410-305355/14	5.0	6.021522	10.0	1808345.0	1.204304	Y
6	ICIS 410-305355/13	10.0	12.87042	10.0	1799294.0	1.287042	Y
7	IC 410-305355/12	25.0	31.173837	10.0	1833406.0	1.246953	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

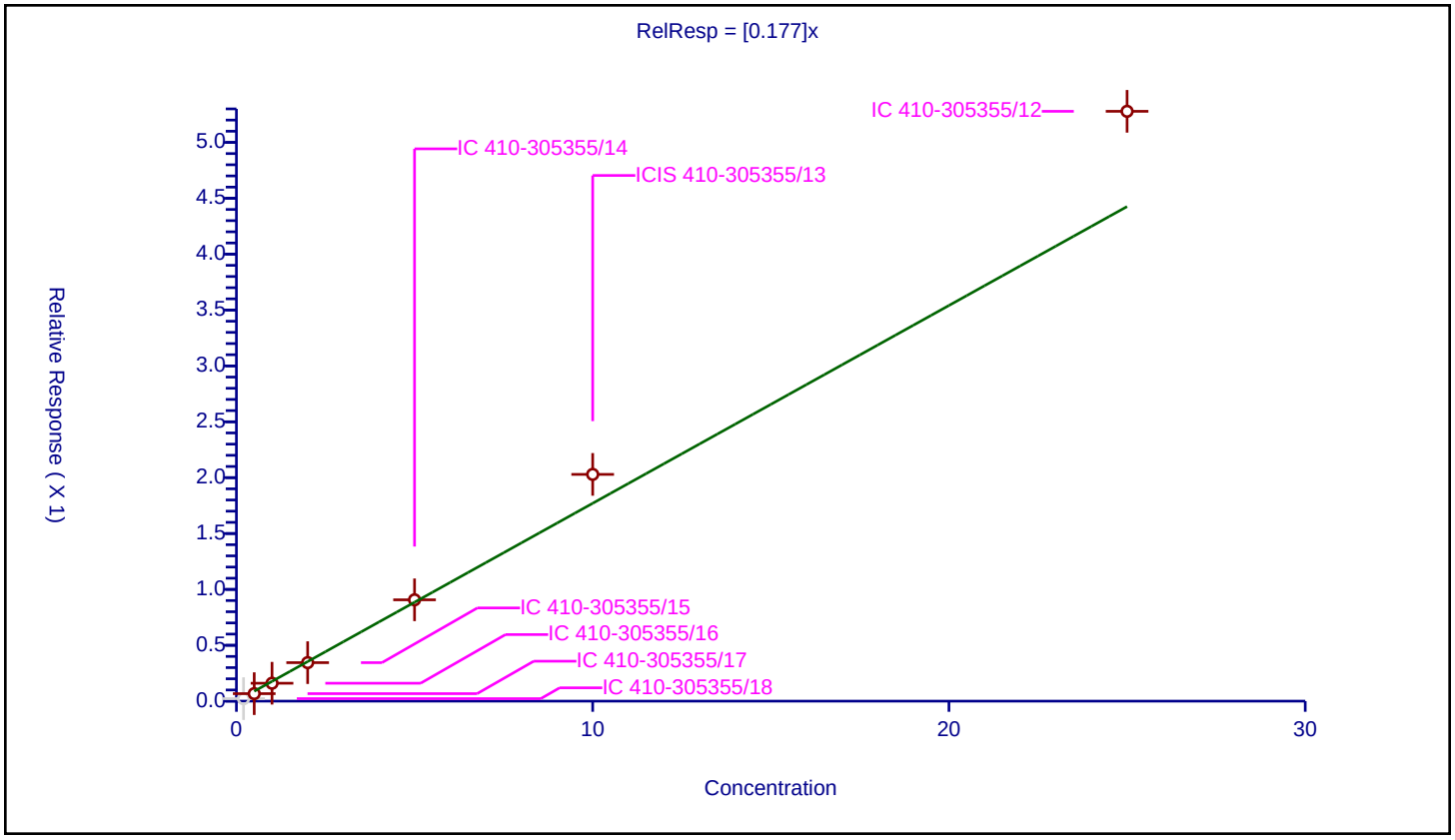
Curve Coefficients

Intercept:	0
Slope:	0.177

Error Coefficients

Standard Error:	469000
Relative Standard Error:	15.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.969

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.022229	10.0	1792731.0	0.111143	N
2	IC 410-305355/17	0.5	0.067135	10.0	1786094.0	0.134271	Y
3	IC 410-305355/16	1.0	0.160275	10.0	1786805.0	0.160275	Y
4	IC 410-305355/15	2.0	0.344559	10.0	1768404.0	0.17228	Y
5	IC 410-305355/14	5.0	0.90679	10.0	1808345.0	0.181358	Y
6	ICIS 410-305355/13	10.0	2.029196	10.0	1799294.0	0.20292	Y
7	IC 410-305355/12	25.0	5.278198	10.0	1833406.0	0.211128	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

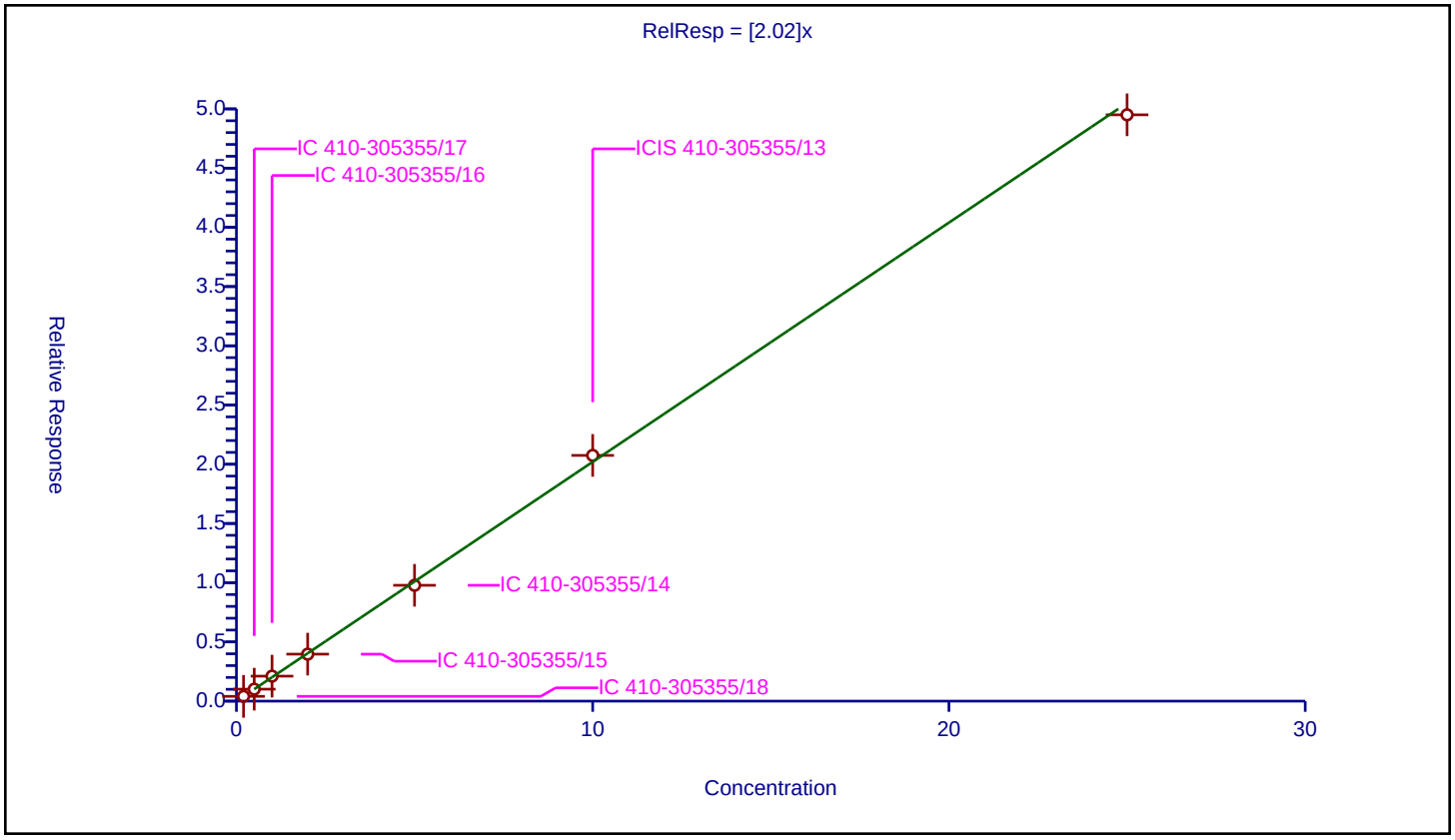
Curve Coefficients

Intercept:	0
Slope:	2.02

Error Coefficients

Standard Error:	4080000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.403167	10.0	1792731.0	2.015835	Y
2	IC 410-305355/17	0.5	1.010104	10.0	1786094.0	2.020207	Y
3	IC 410-305355/16	1.0	2.10948	10.0	1786805.0	2.10948	Y
4	IC 410-305355/15	2.0	3.966871	10.0	1768404.0	1.983435	Y
5	IC 410-305355/14	5.0	9.780241	10.0	1808345.0	1.956048	Y
6	ICIS 410-305355/13	10.0	20.745409	10.0	1799294.0	2.074541	Y
7	IC 410-305355/12	25.0	49.500662	10.0	1833406.0	1.980026	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

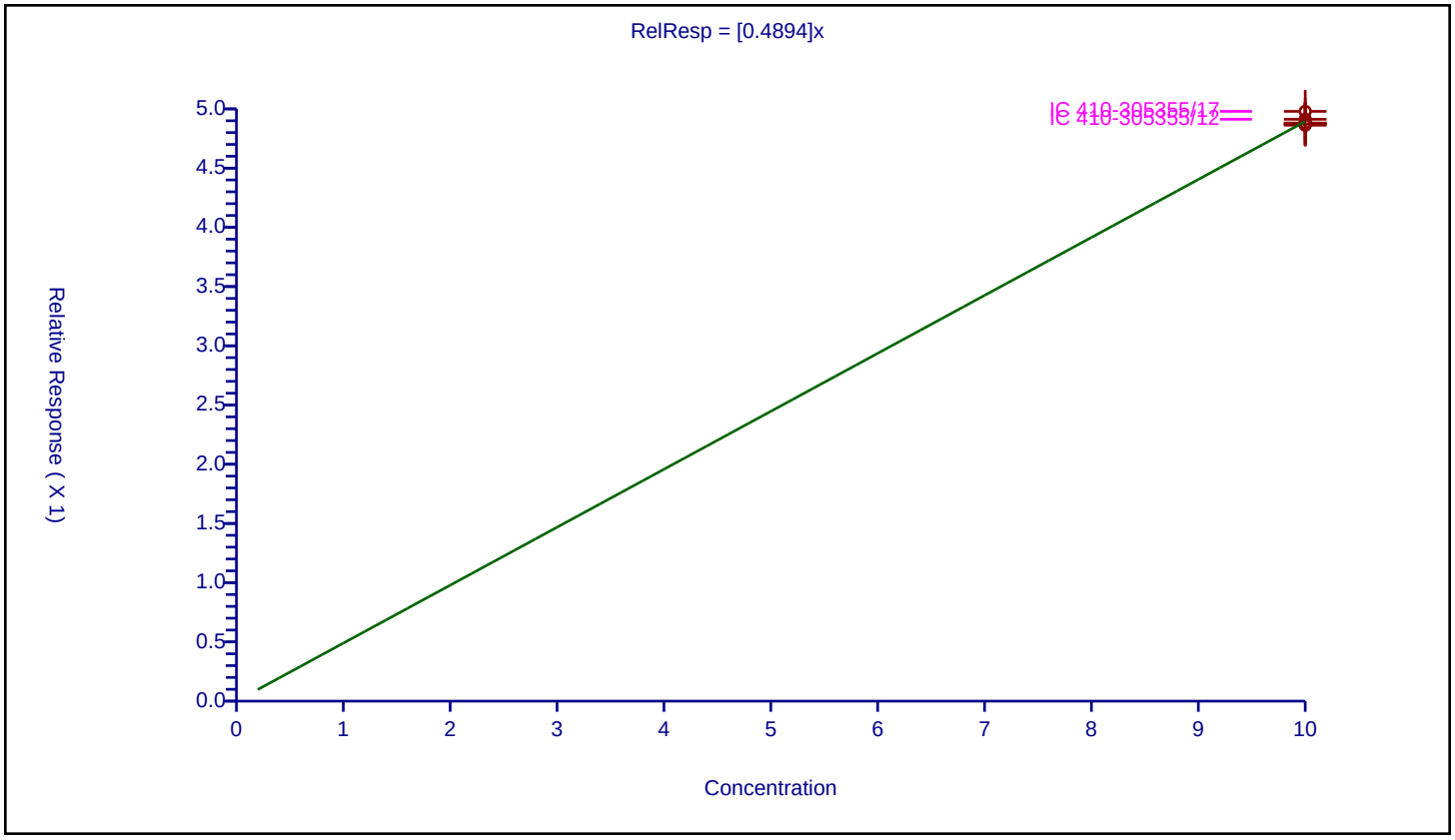
Curve Coefficients

Intercept:	0
Slope:	0.4894

Error Coefficients

Standard Error:	950000
Relative Standard Error:	0.8
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/12	10.0	4.9123	10.0	1833406.0	0.49123	Y
2	ICIS 410-305355/13	10.0	4.876352	10.0	1799294.0	0.487635	Y
3	IC 410-305355/14	10.0	4.862059	10.0	1808345.0	0.486206	Y
4	IC 410-305355/15	10.0	4.880972	10.0	1768404.0	0.488097	Y
5	IC 410-305355/16	10.0	4.872076	10.0	1786805.0	0.487208	Y
6	IC 410-305355/17	10.0	4.97901	10.0	1786094.0	0.497901	Y
7	IC 410-305355/18	10.0	4.872549	10.0	1792731.0	0.487255	Y



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Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

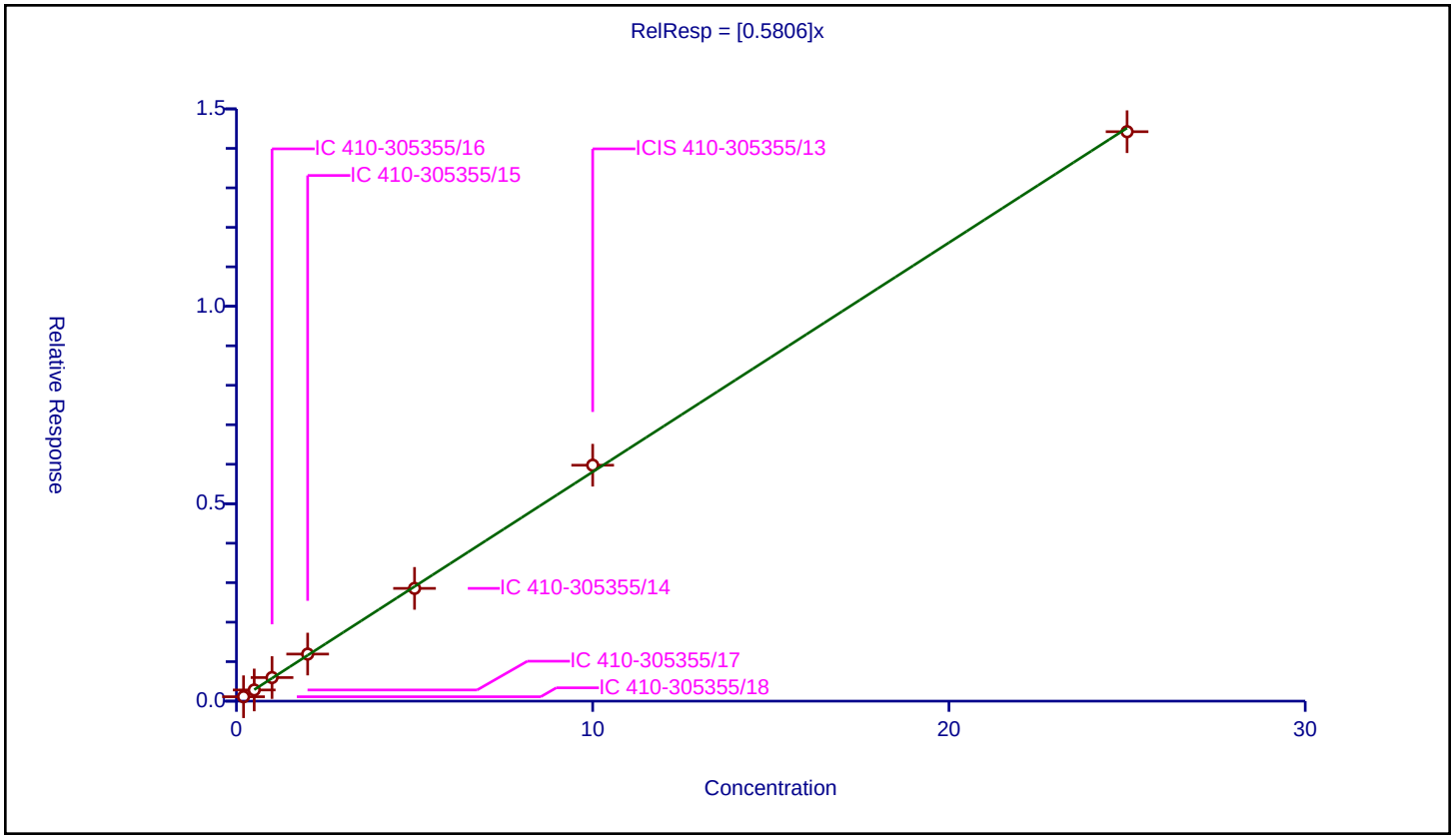
Curve Coefficients

Intercept:	0
Slope:	0.5806

Error Coefficients

Standard Error:	690000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.111857	10.0	1038646.0	0.559286	Y
2	IC 410-305355/17	0.5	0.283078	10.0	1060130.0	0.566157	Y
3	IC 410-305355/16	1.0	0.597256	10.0	1039504.0	0.597256	Y
4	IC 410-305355/15	2.0	1.192055	10.0	1029827.0	0.596027	Y
5	IC 410-305355/14	5.0	2.855712	10.0	1025380.0	0.571142	Y
6	ICIS 410-305355/13	10.0	5.975428	10.0	1032219.0	0.597543	Y
7	IC 410-305355/12	25.0	14.422821	10.0	1068377.0	0.576913	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

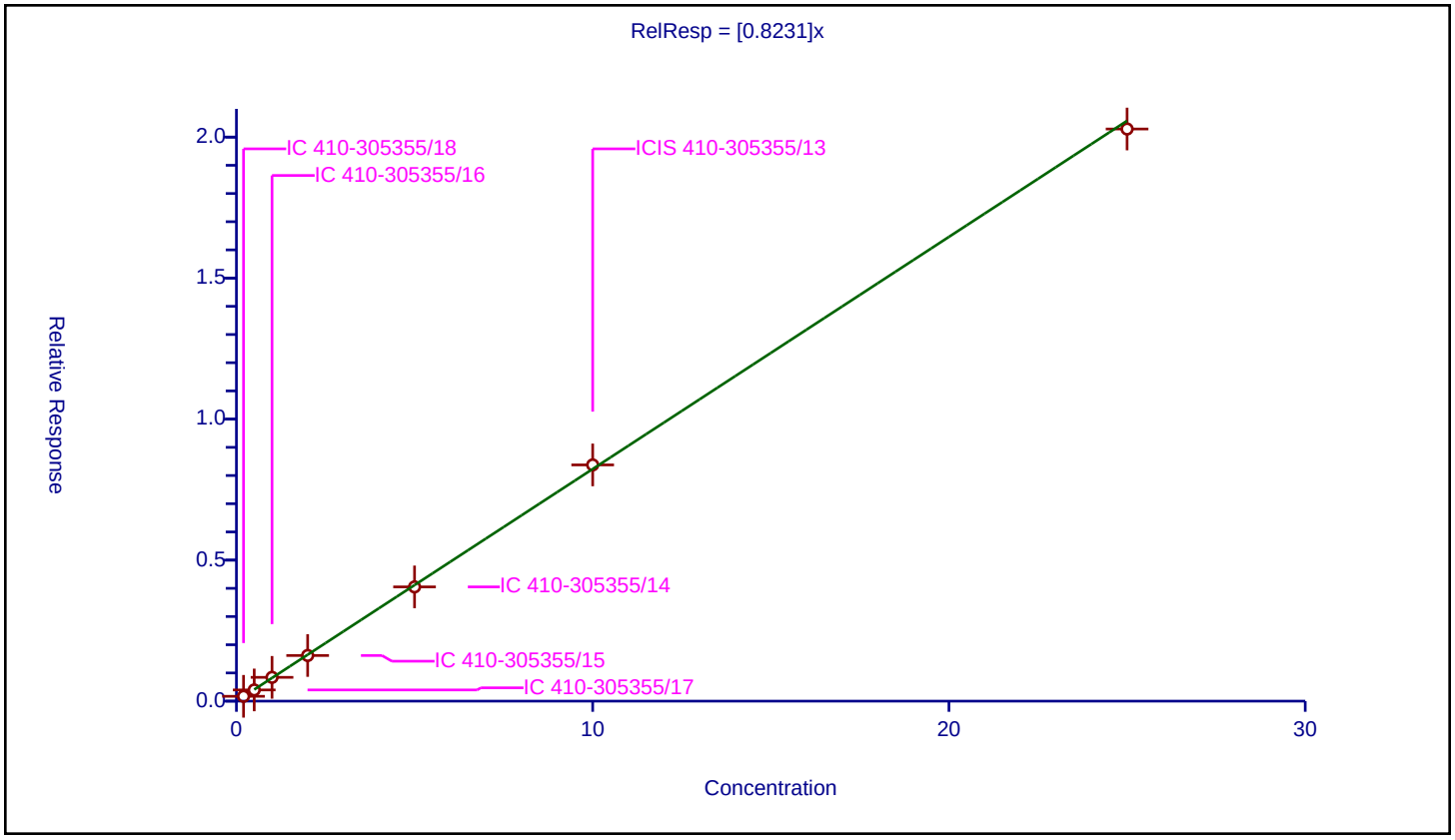
Curve Coefficients

Intercept:	0
Slope:	0.8231

Error Coefficients

Standard Error:	971000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.171098	10.0	1038646.0	0.855489	Y
2	IC 410-305355/17	0.5	0.397225	10.0	1060130.0	0.79445	Y
3	IC 410-305355/16	1.0	0.843508	10.0	1039504.0	0.843508	Y
4	IC 410-305355/15	2.0	1.618252	10.0	1029827.0	0.809126	Y
5	IC 410-305355/14	5.0	4.050635	10.0	1025380.0	0.810127	Y
6	ICIS 410-305355/13	10.0	8.376052	10.0	1032219.0	0.837605	Y
7	IC 410-305355/12	25.0	20.287071	10.0	1068377.0	0.811483	Y



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Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

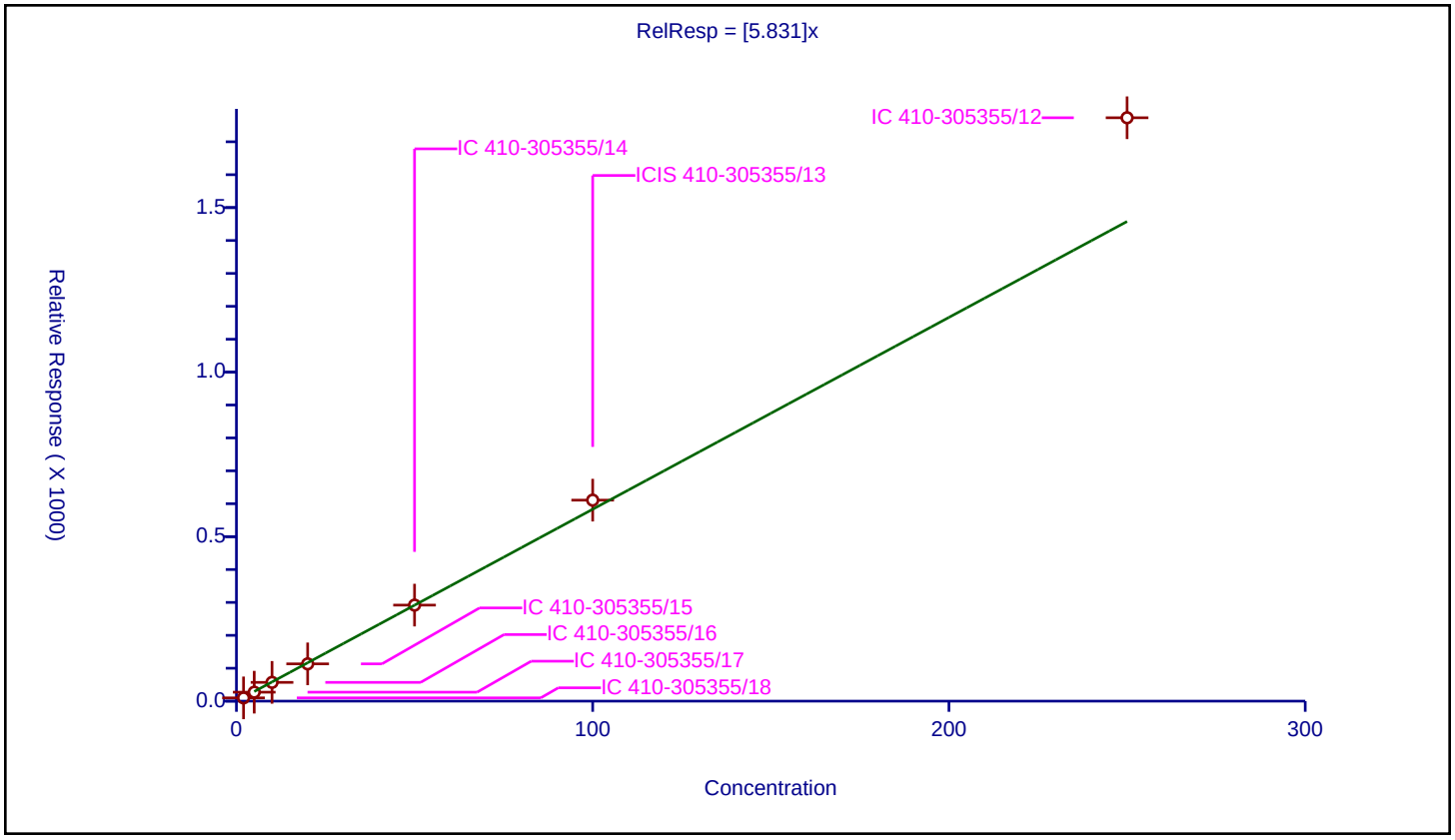
Curve Coefficients

Intercept:	0
Slope:	5.831

Error Coefficients

Standard Error:	1810000
Relative Standard Error:	11.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	2.0	9.932255	50.0	127685.0	4.966128	Y
2	IC 410-305355/17	5.0	27.256561	50.0	127650.0	5.451312	Y
3	IC 410-305355/16	10.0	57.01557	50.0	129740.0	5.701557	Y
4	IC 410-305355/15	20.0	113.27048	50.0	135500.0	5.663524	Y
5	IC 410-305355/14	50.0	291.848255	50.0	130469.0	5.836965	Y
6	ICIS 410-305355/13	100.0	610.889565	50.0	130547.0	6.108896	Y
7	IC 410-305355/12	250.0	1773.014192	50.0	114286.0	7.092057	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

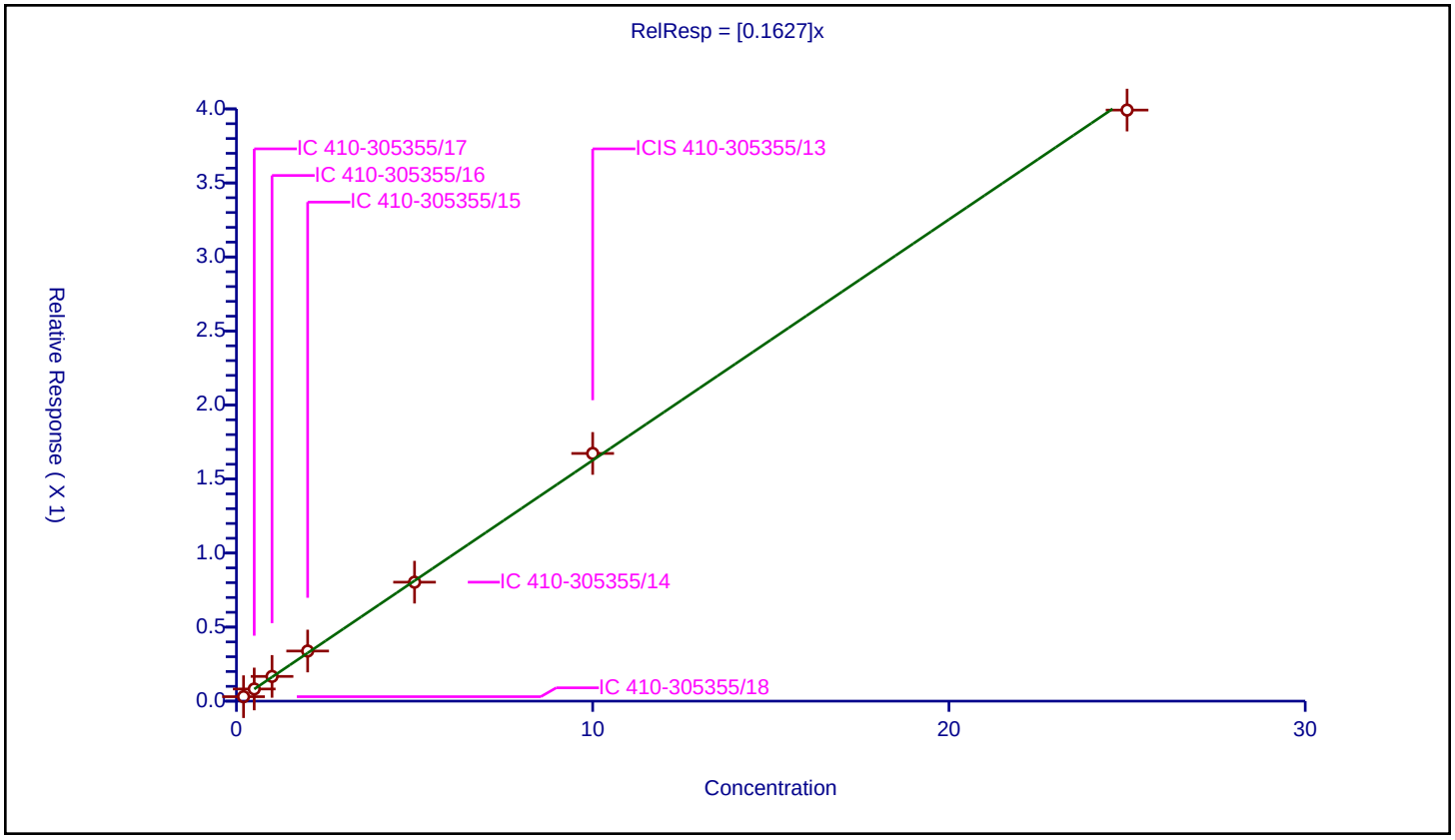
Curve Coefficients

Intercept:	0
Slope:	0.1627

Error Coefficients

Standard Error:	192000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.030058	10.0	1038646.0	0.150292	Y
2	IC 410-305355/17	0.5	0.082179	10.0	1060130.0	0.164357	Y
3	IC 410-305355/16	1.0	0.167003	10.0	1039504.0	0.167003	Y
4	IC 410-305355/15	2.0	0.338455	10.0	1029827.0	0.169227	Y
5	IC 410-305355/14	5.0	0.803497	10.0	1025380.0	0.160699	Y
6	ICIS 410-305355/13	10.0	1.672959	10.0	1032219.0	0.167296	Y
7	IC 410-305355/12	25.0	3.992158	10.0	1068377.0	0.159686	Y



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Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

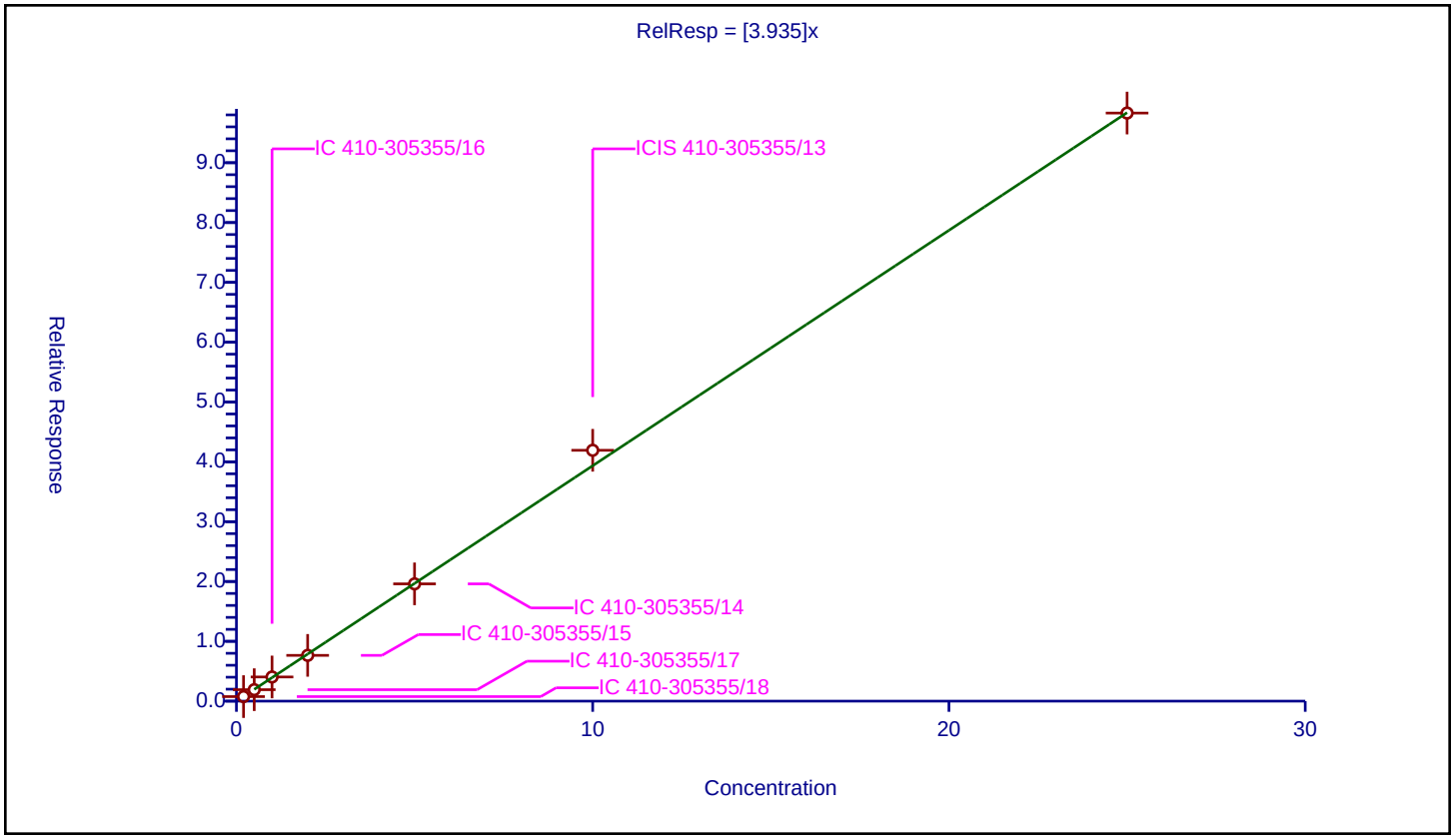
Curve Coefficients

Intercept:	0
Slope:	3.935

Error Coefficients

Standard Error:	4720000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.76074	10.0	1038646.0	3.803702	Y
2	IC 410-305355/17	0.5	1.915086	10.0	1060130.0	3.830172	Y
3	IC 410-305355/16	1.0	4.040167	10.0	1039504.0	4.040167	Y
4	IC 410-305355/15	2.0	7.64944	10.0	1029827.0	3.82472	Y
5	IC 410-305355/14	5.0	19.604186	10.0	1025380.0	3.920837	Y
6	ICIS 410-305355/13	10.0	41.933194	10.0	1032219.0	4.193319	Y
7	IC 410-305355/12	25.0	98.30353	10.0	1068377.0	3.932141	Y



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Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

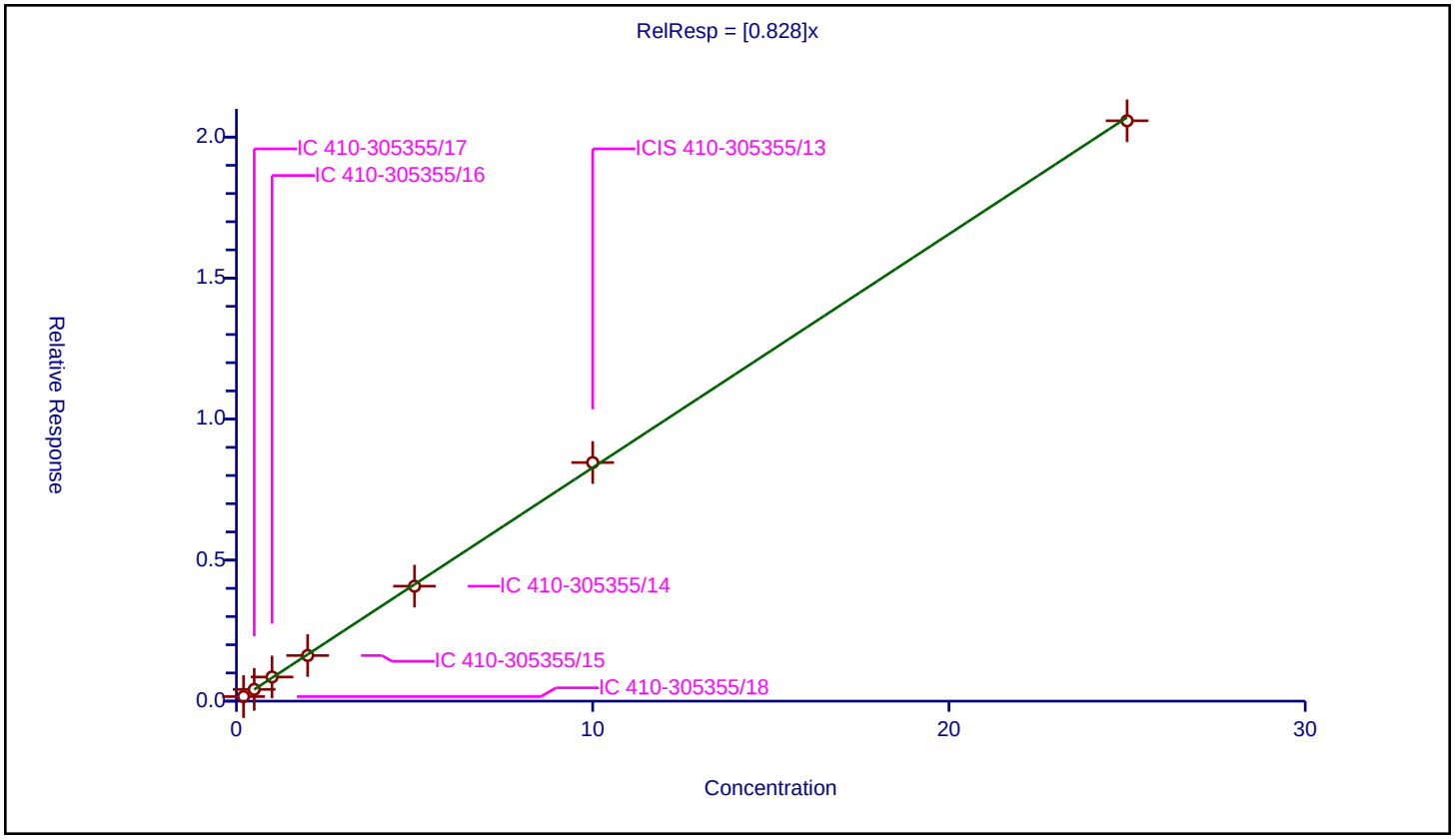
Curve Coefficients

Intercept:	0
Slope:	0.828

Error Coefficients

Standard Error:	984000
Relative Standard Error:	2.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.162327	10.0	1038646.0	0.811634	Y
2	IC 410-305355/17	0.5	0.416864	10.0	1060130.0	0.833728	Y
3	IC 410-305355/16	1.0	0.856832	10.0	1039504.0	0.856832	Y
4	IC 410-305355/15	2.0	1.618272	10.0	1029827.0	0.809136	Y
5	IC 410-305355/14	5.0	4.076391	10.0	1025380.0	0.815278	Y
6	ICIS 410-305355/13	10.0	8.460123	10.0	1032219.0	0.846012	Y
7	IC 410-305355/12	25.0	20.579121	10.0	1068377.0	0.823165	Y



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Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

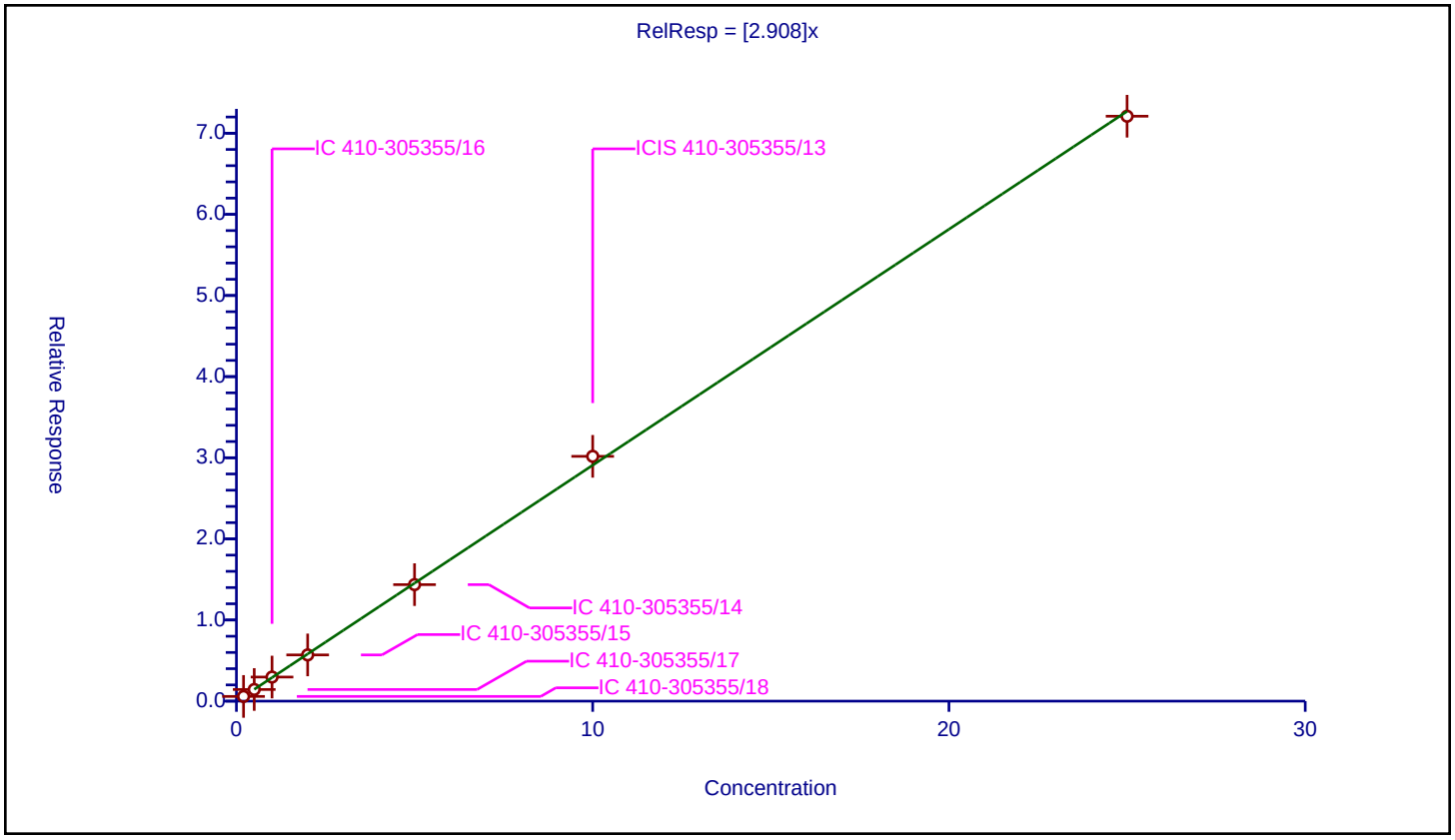
Curve Coefficients

Intercept:	0
Slope:	2.908

Error Coefficients

Standard Error:	3460000
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.578195	10.0	1038646.0	2.890975	Y
2	IC 410-305355/17	0.5	1.43655	10.0	1060130.0	2.8731	Y
3	IC 410-305355/16	1.0	2.97084	10.0	1039504.0	2.97084	Y
4	IC 410-305355/15	2.0	5.696141	10.0	1029827.0	2.848071	Y
5	IC 410-305355/14	5.0	14.360803	10.0	1025380.0	2.872161	Y
6	ICIS 410-305355/13	10.0	30.17629	10.0	1032219.0	3.017629	Y
7	IC 410-305355/12	25.0	72.097424	10.0	1068377.0	2.883897	Y



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Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

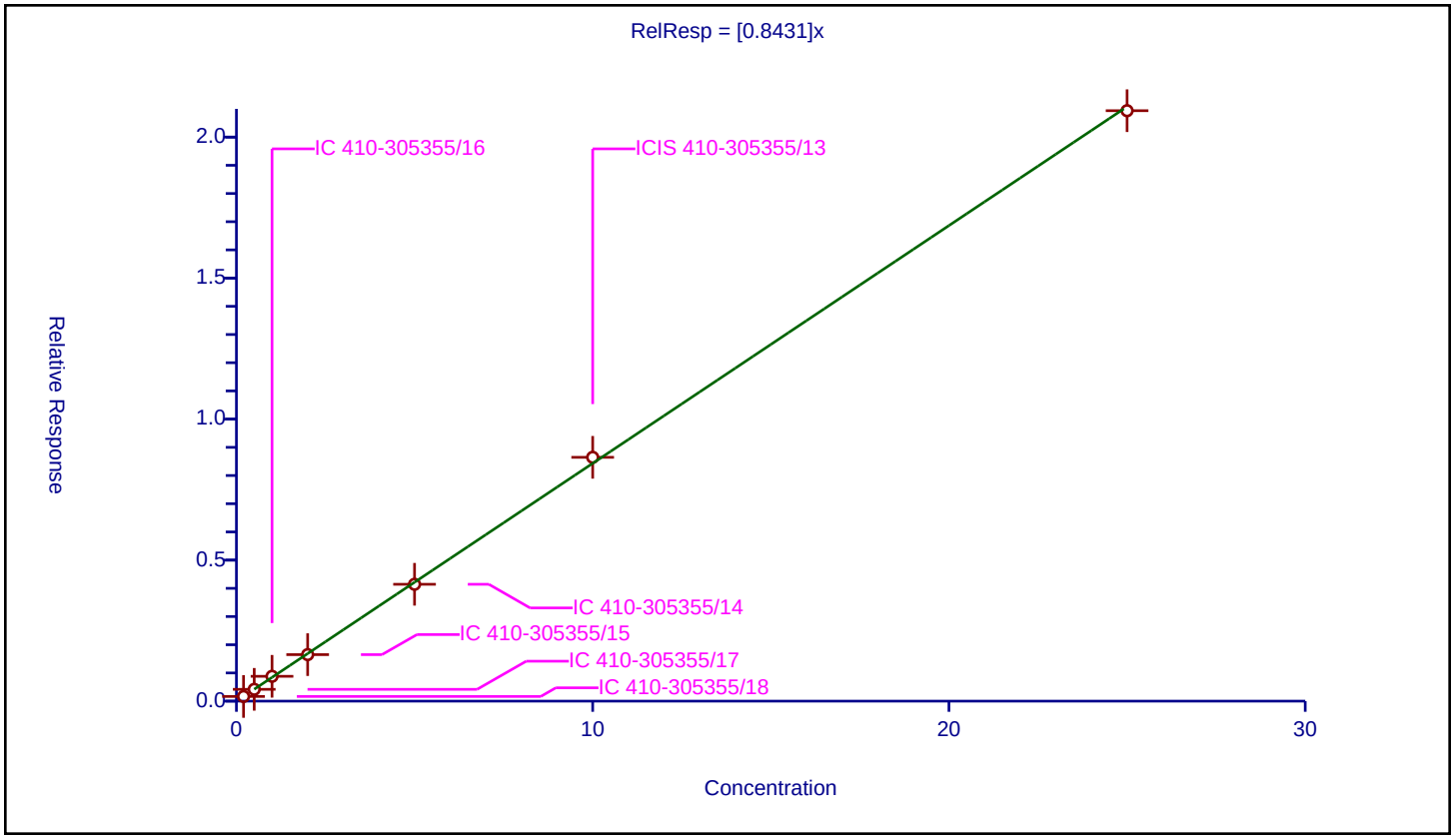
Curve Coefficients

Intercept:	0
Slope:	0.8431

Error Coefficients

Standard Error:	1000000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.165696	10.0	1038646.0	0.828482	Y
2	IC 410-305355/17	0.5	0.418713	10.0	1060130.0	0.837426	Y
3	IC 410-305355/16	1.0	0.880651	10.0	1039504.0	0.880651	Y
4	IC 410-305355/15	2.0	1.649316	10.0	1029827.0	0.824658	Y
5	IC 410-305355/14	5.0	4.143908	10.0	1025380.0	0.828782	Y
6	ICIS 410-305355/13	10.0	8.645278	10.0	1032219.0	0.864528	Y
7	IC 410-305355/12	25.0	20.936065	10.0	1068377.0	0.837443	Y



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Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

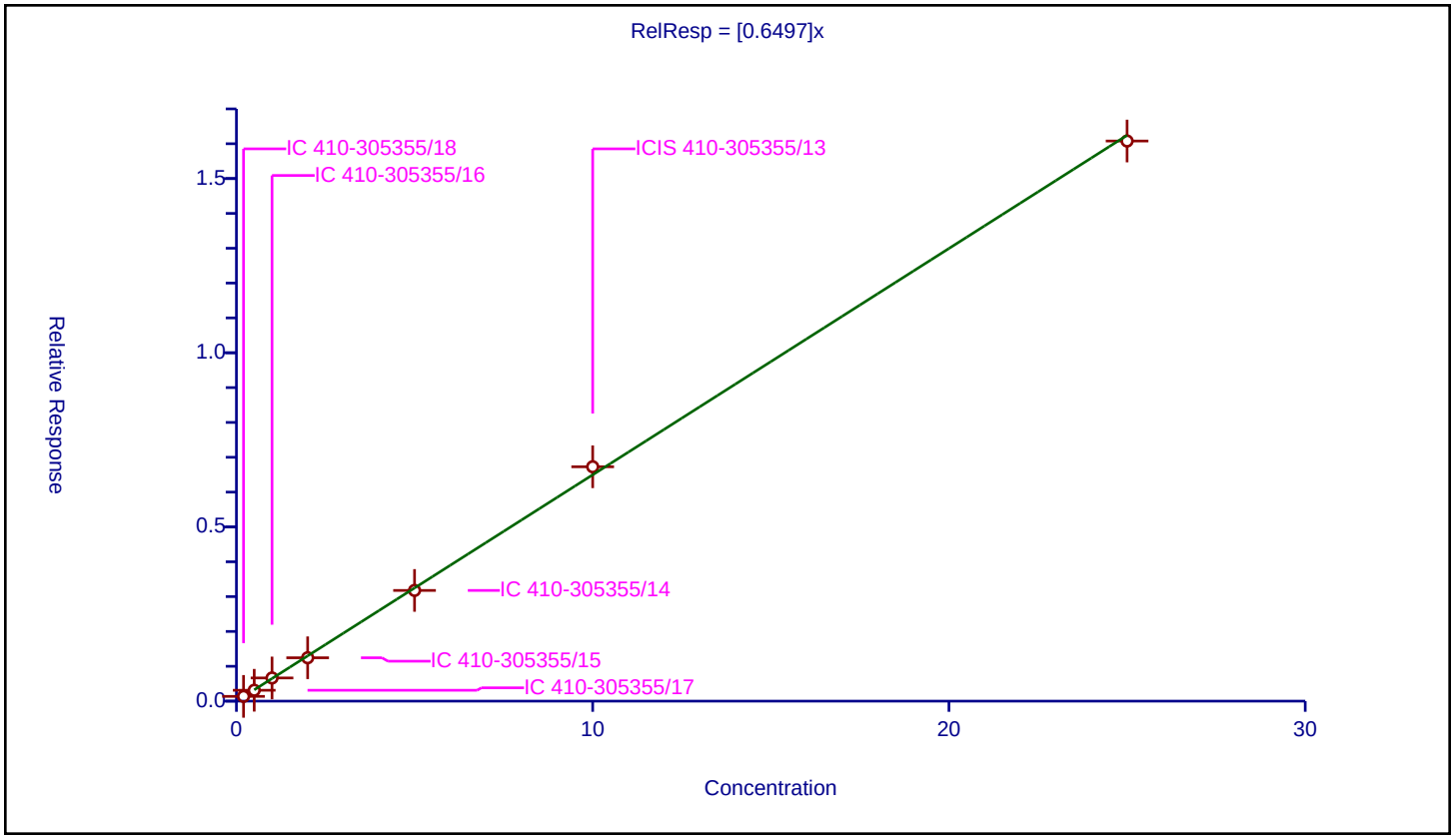
Curve Coefficients

Intercept:	0
Slope:	0.6497

Error Coefficients

Standard Error:	770000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.136678	10.0	1038646.0	0.68339	Y
2	IC 410-305355/17	0.5	0.312405	10.0	1060130.0	0.62481	Y
3	IC 410-305355/16	1.0	0.66551	10.0	1039504.0	0.66551	Y
4	IC 410-305355/15	2.0	1.24518	10.0	1029827.0	0.62259	Y
5	IC 410-305355/14	5.0	3.177778	10.0	1025380.0	0.635556	Y
6	ICIS 410-305355/13	10.0	6.727652	10.0	1032219.0	0.672765	Y
7	IC 410-305355/12	25.0	16.078051	10.0	1068377.0	0.643122	Y



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Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

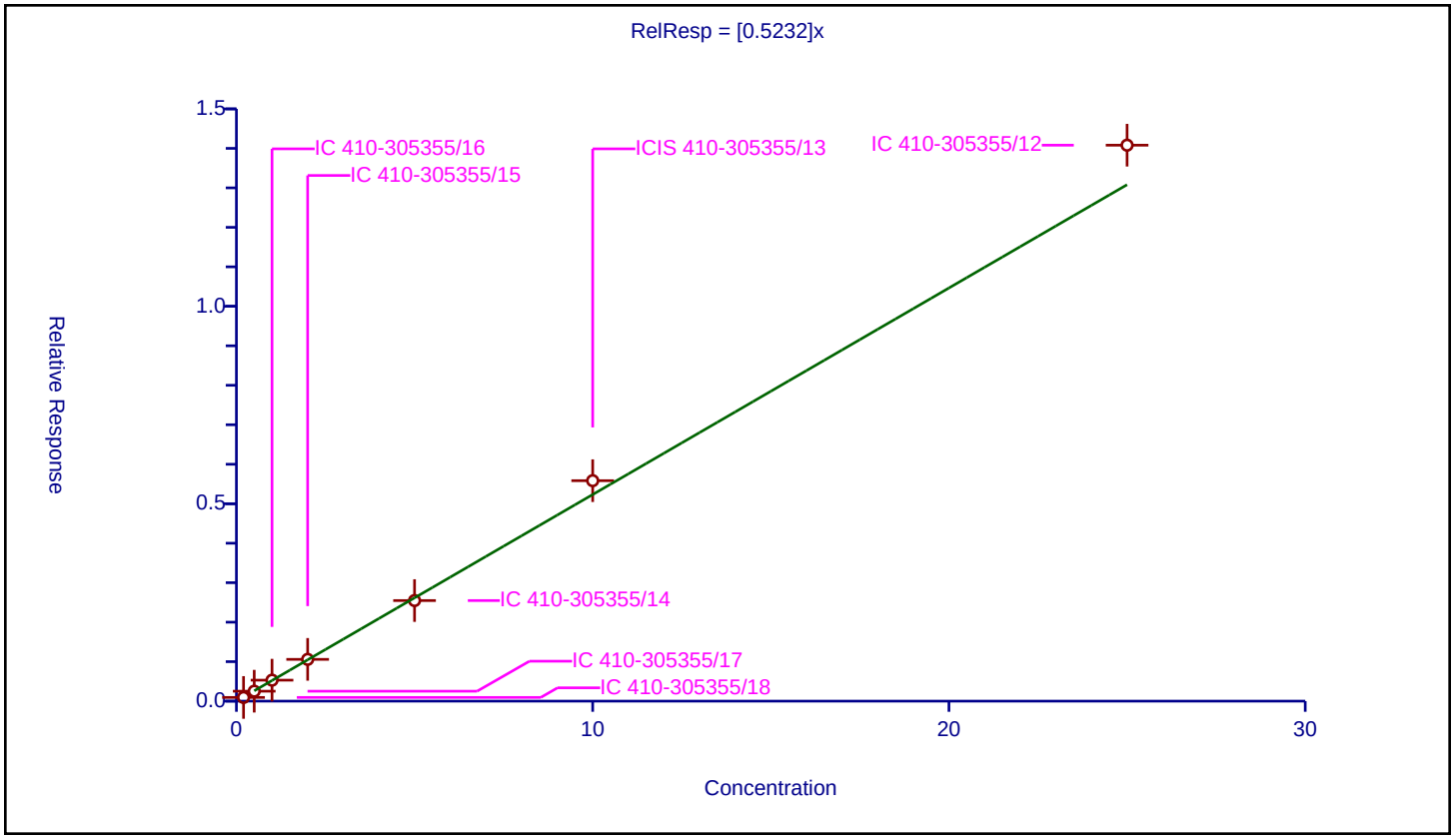
Curve Coefficients

Intercept:	0
Slope:	0.5232

Error Coefficients

Standard Error:	668000
Relative Standard Error:	6.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.093497	10.0	1038646.0	0.467484	Y
2	IC 410-305355/17	0.5	0.251979	10.0	1060130.0	0.503957	Y
3	IC 410-305355/16	1.0	0.531109	10.0	1039504.0	0.531109	Y
4	IC 410-305355/15	2.0	1.05775	10.0	1029827.0	0.528875	Y
5	IC 410-305355/14	5.0	2.547173	10.0	1025380.0	0.509435	Y
6	ICIS 410-305355/13	10.0	5.583602	10.0	1032219.0	0.55836	Y
7	IC 410-305355/12	25.0	14.080694	10.0	1068377.0	0.563228	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

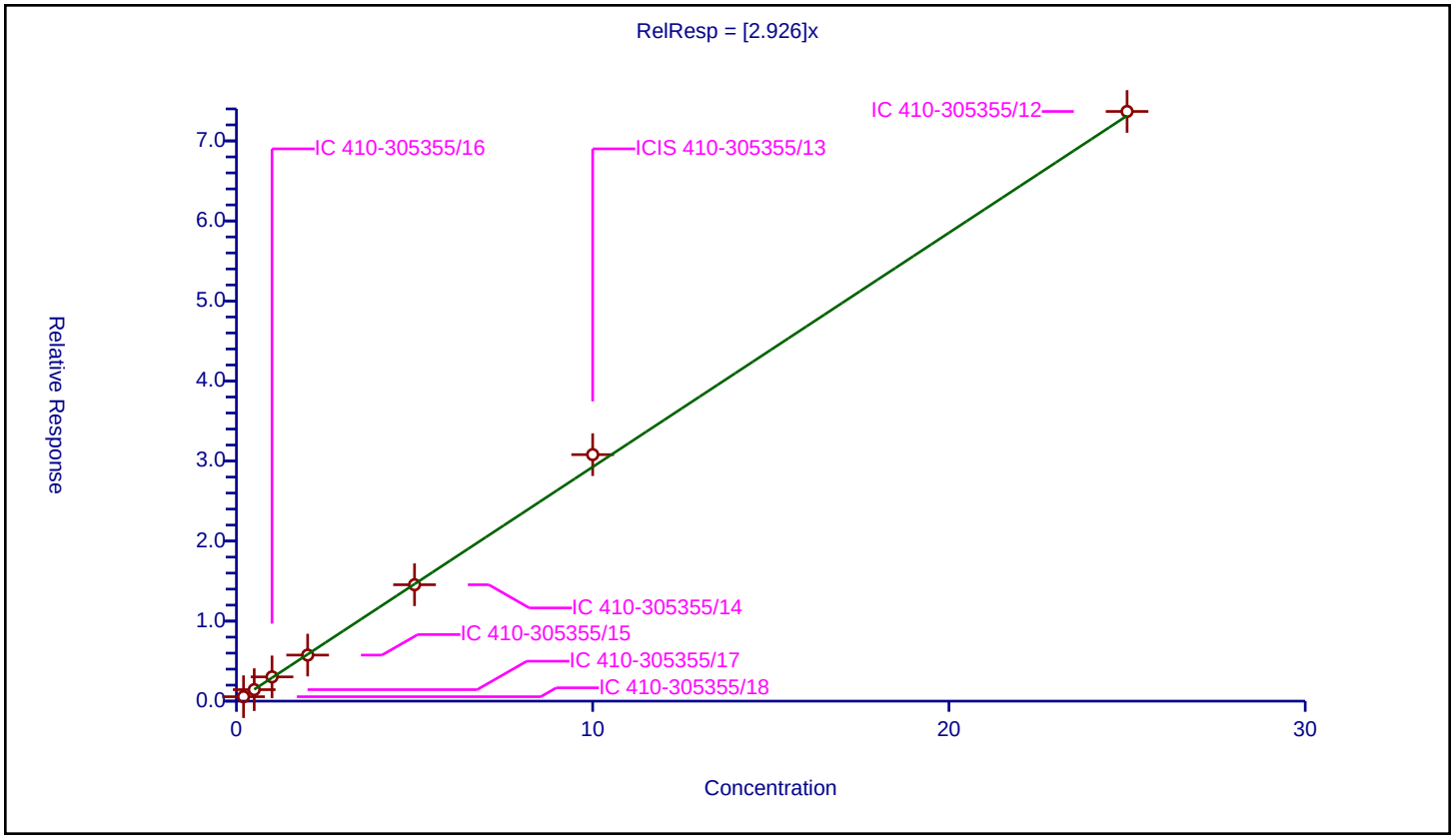
Curve Coefficients

Intercept:	0
Slope:	2.926

Error Coefficients

Standard Error:	3530000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.552739	10.0	1038646.0	2.763694	Y
2	IC 410-305355/17	0.5	1.436748	10.0	1060130.0	2.873497	Y
3	IC 410-305355/16	1.0	3.030407	10.0	1039504.0	3.030407	Y
4	IC 410-305355/15	2.0	5.756161	10.0	1029827.0	2.87808	Y
5	IC 410-305355/14	5.0	14.543311	10.0	1025380.0	2.908662	Y
6	ICIS 410-305355/13	10.0	30.802523	10.0	1032219.0	3.080252	Y
7	IC 410-305355/12	25.0	73.680396	10.0	1068377.0	2.947216	Y



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Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

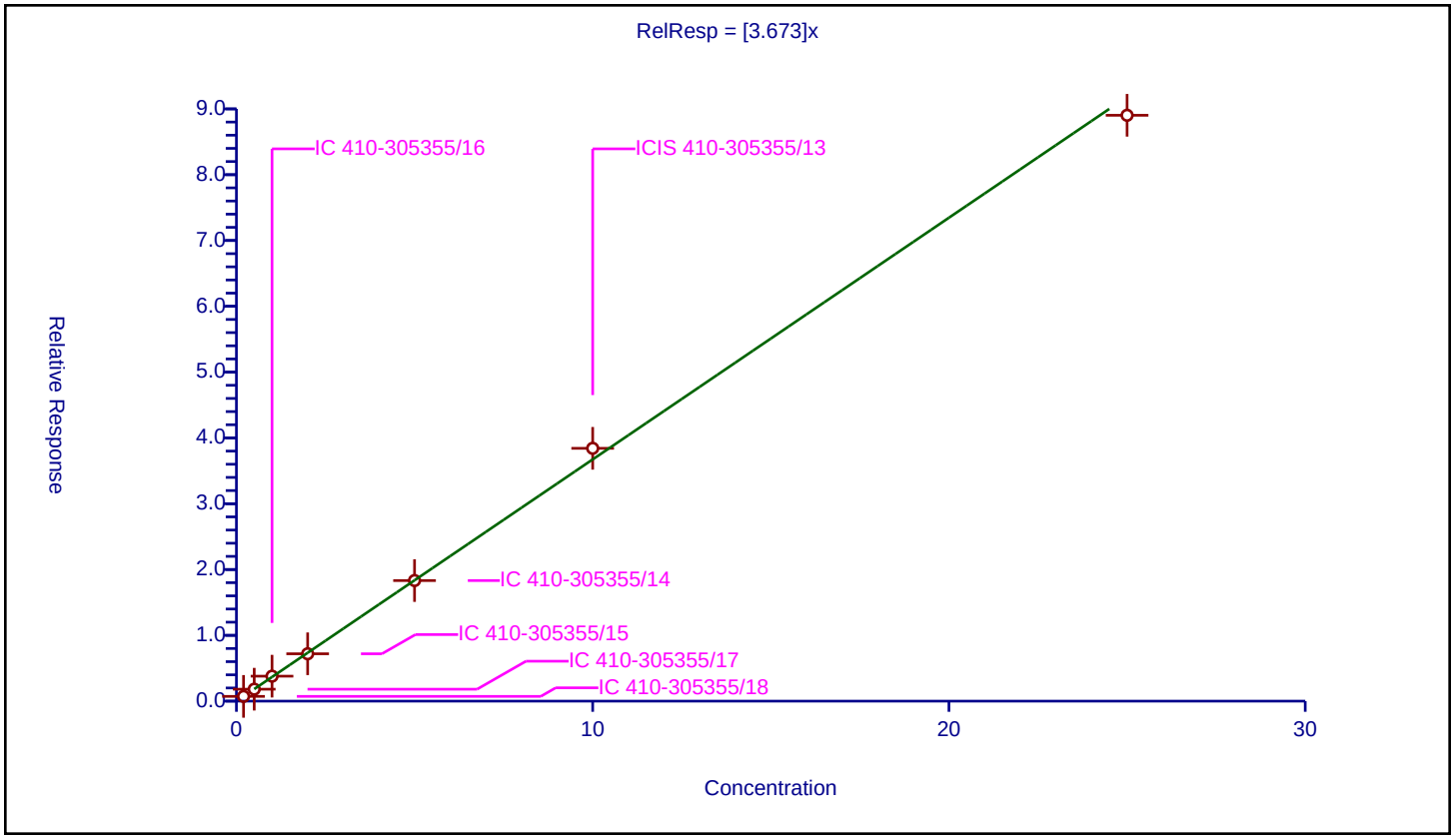
Curve Coefficients

Intercept:	0
Slope:	3.673

Error Coefficients

Standard Error:	4290000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.723326	10.0	1038646.0	3.616632	Y
2	IC 410-305355/17	0.5	1.815674	10.0	1060130.0	3.631347	Y
3	IC 410-305355/16	1.0	3.795983	10.0	1039504.0	3.795983	Y
4	IC 410-305355/15	2.0	7.198384	10.0	1029827.0	3.599192	Y
5	IC 410-305355/14	5.0	18.32546	10.0	1025380.0	3.665092	Y
6	ICIS 410-305355/13	10.0	38.421692	10.0	1032219.0	3.842169	Y
7	IC 410-305355/12	25.0	89.029743	10.0	1068377.0	3.56119	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

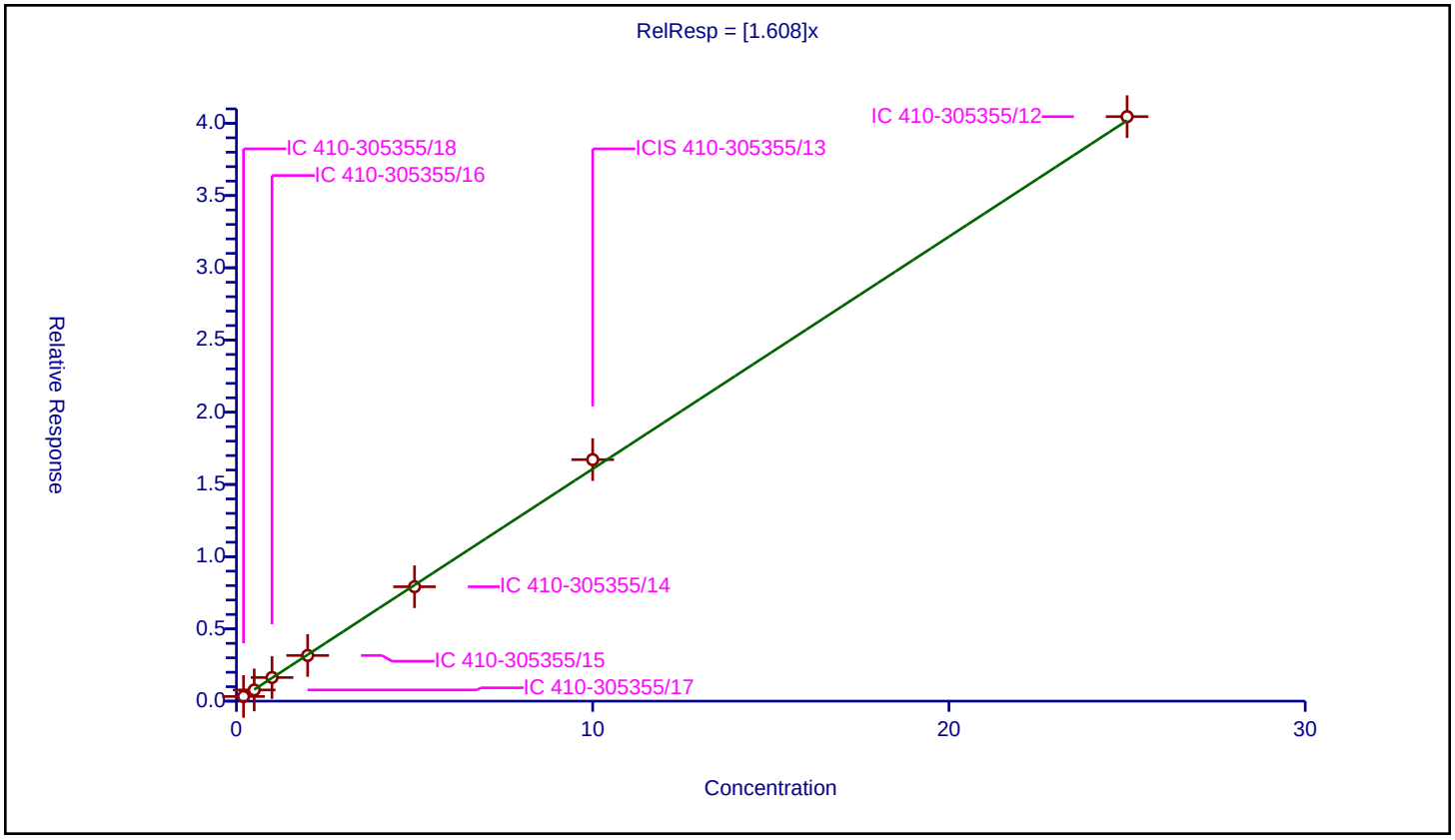
Curve Coefficients

Intercept:	0
Slope:	1.608

Error Coefficients

Standard Error:	1940000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.32215	10.0	1038646.0	1.610751	Y
2	IC 410-305355/17	0.5	0.775518	10.0	1060130.0	1.551036	Y
3	IC 410-305355/16	1.0	1.637262	10.0	1039504.0	1.637262	Y
4	IC 410-305355/15	2.0	3.161298	10.0	1029827.0	1.580649	Y
5	IC 410-305355/14	5.0	7.920342	10.0	1025380.0	1.584068	Y
6	ICIS 410-305355/13	10.0	16.718477	10.0	1032219.0	1.671848	Y
7	IC 410-305355/12	25.0	40.462842	10.0	1068377.0	1.618514	Y



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Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

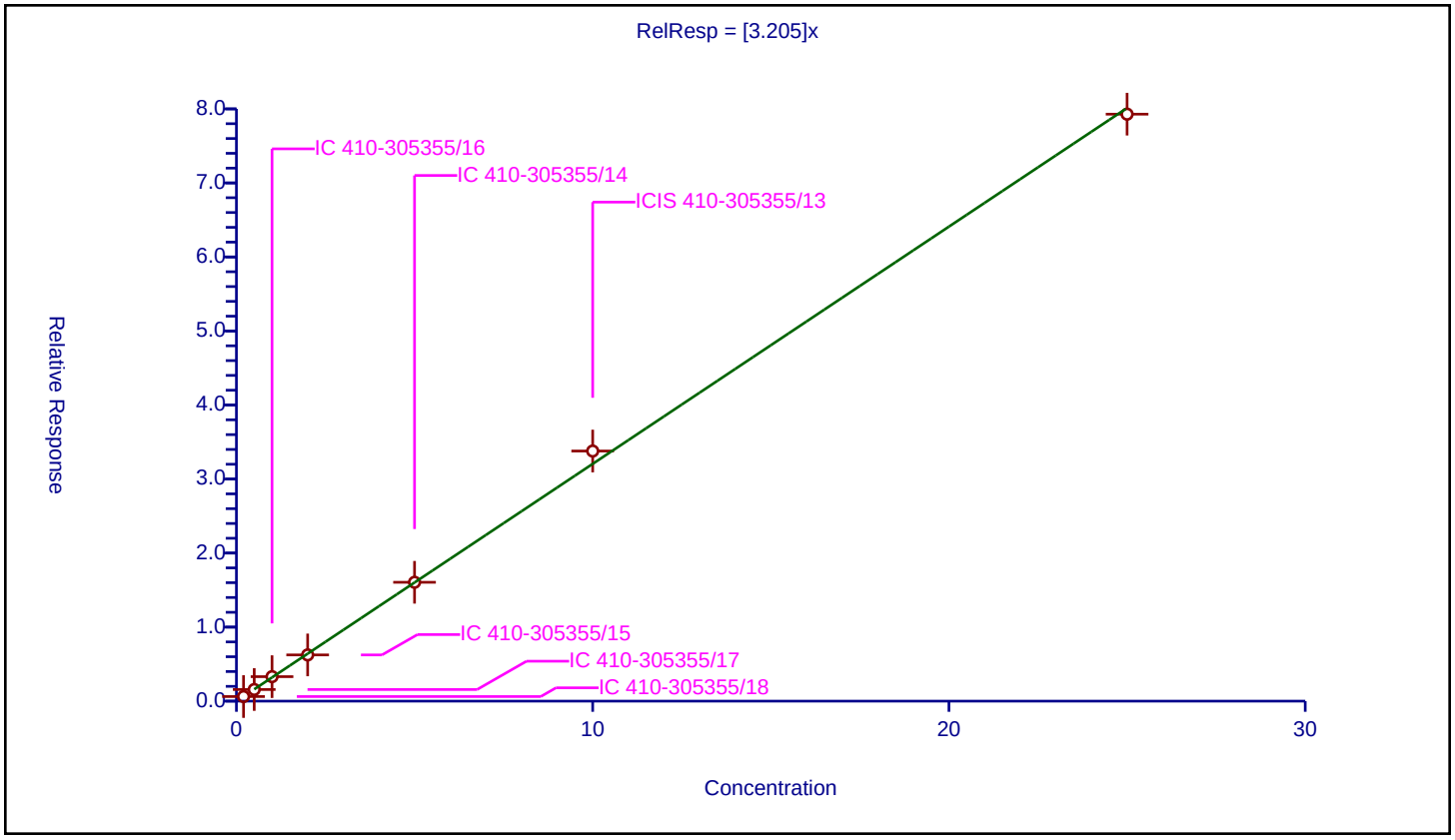
Curve Coefficients

Intercept:	0
Slope:	3.205

Error Coefficients

Standard Error:	3810000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.619817	10.0	1038646.0	3.099083	Y
2	IC 410-305355/17	0.5	1.571298	10.0	1060130.0	3.142596	Y
3	IC 410-305355/16	1.0	3.309598	10.0	1039504.0	3.309598	Y
4	IC 410-305355/15	2.0	6.243893	10.0	1029827.0	3.121947	Y
5	IC 410-305355/14	5.0	16.054828	10.0	1025380.0	3.210966	Y
6	ICIS 410-305355/13	10.0	33.78255	10.0	1032219.0	3.378255	Y
7	IC 410-305355/12	25.0	79.286844	10.0	1068377.0	3.171474	Y



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Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

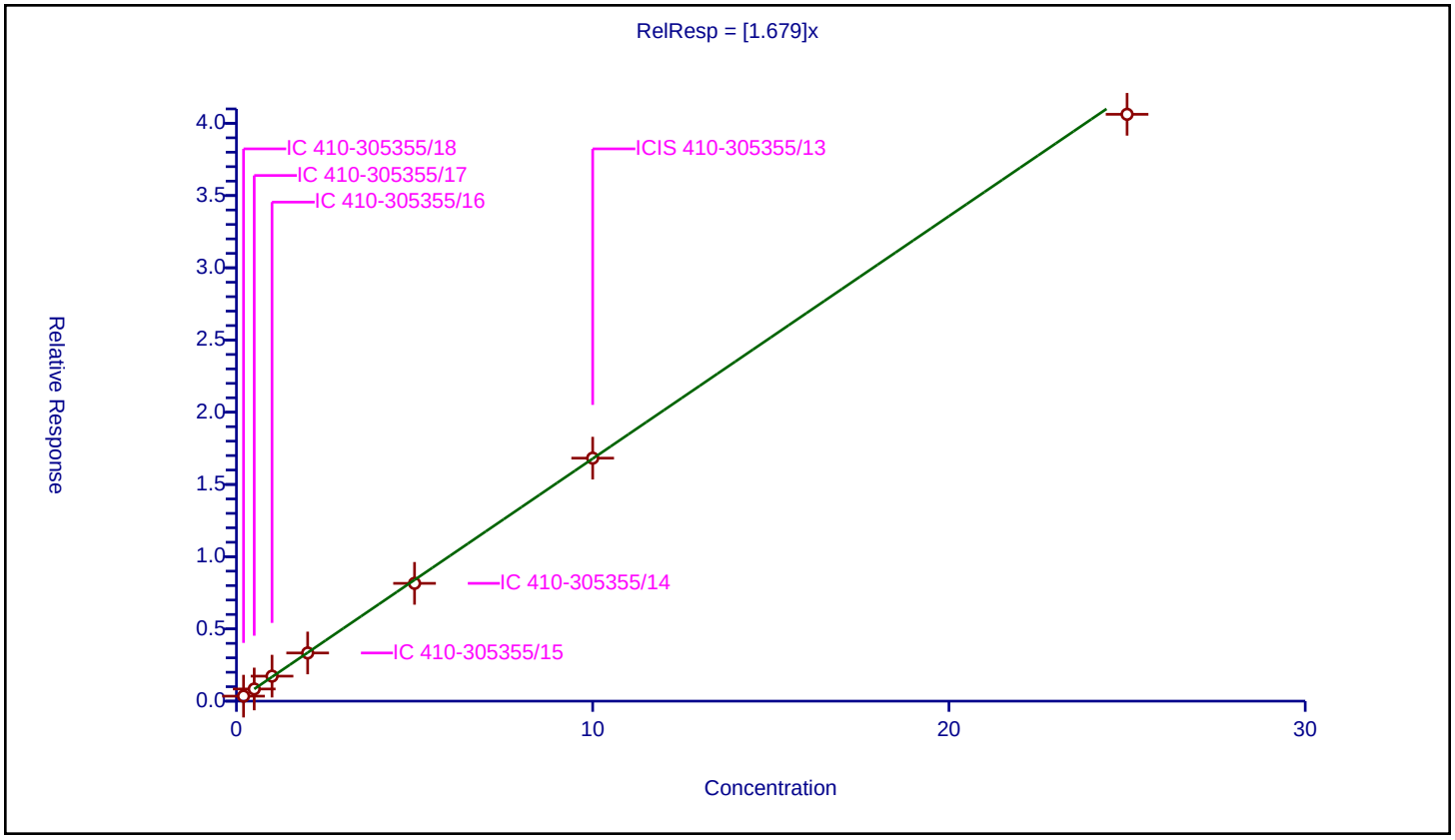
Curve Coefficients

Intercept:	0
Slope:	1.679

Error Coefficients

Standard Error:	1950000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.346345	10.0	1038646.0	1.731726	Y
2	IC 410-305355/17	0.5	0.841359	10.0	1060130.0	1.682718	Y
3	IC 410-305355/16	1.0	1.731191	10.0	1039504.0	1.731191	Y
4	IC 410-305355/15	2.0	3.334599	10.0	1029827.0	1.667299	Y
5	IC 410-305355/14	5.0	8.154782	10.0	1025380.0	1.630956	Y
6	ICIS 410-305355/13	10.0	16.821227	10.0	1032219.0	1.682123	Y
7	IC 410-305355/12	25.0	40.62535	10.0	1068377.0	1.625014	Y



Calibration / 1,2,3-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

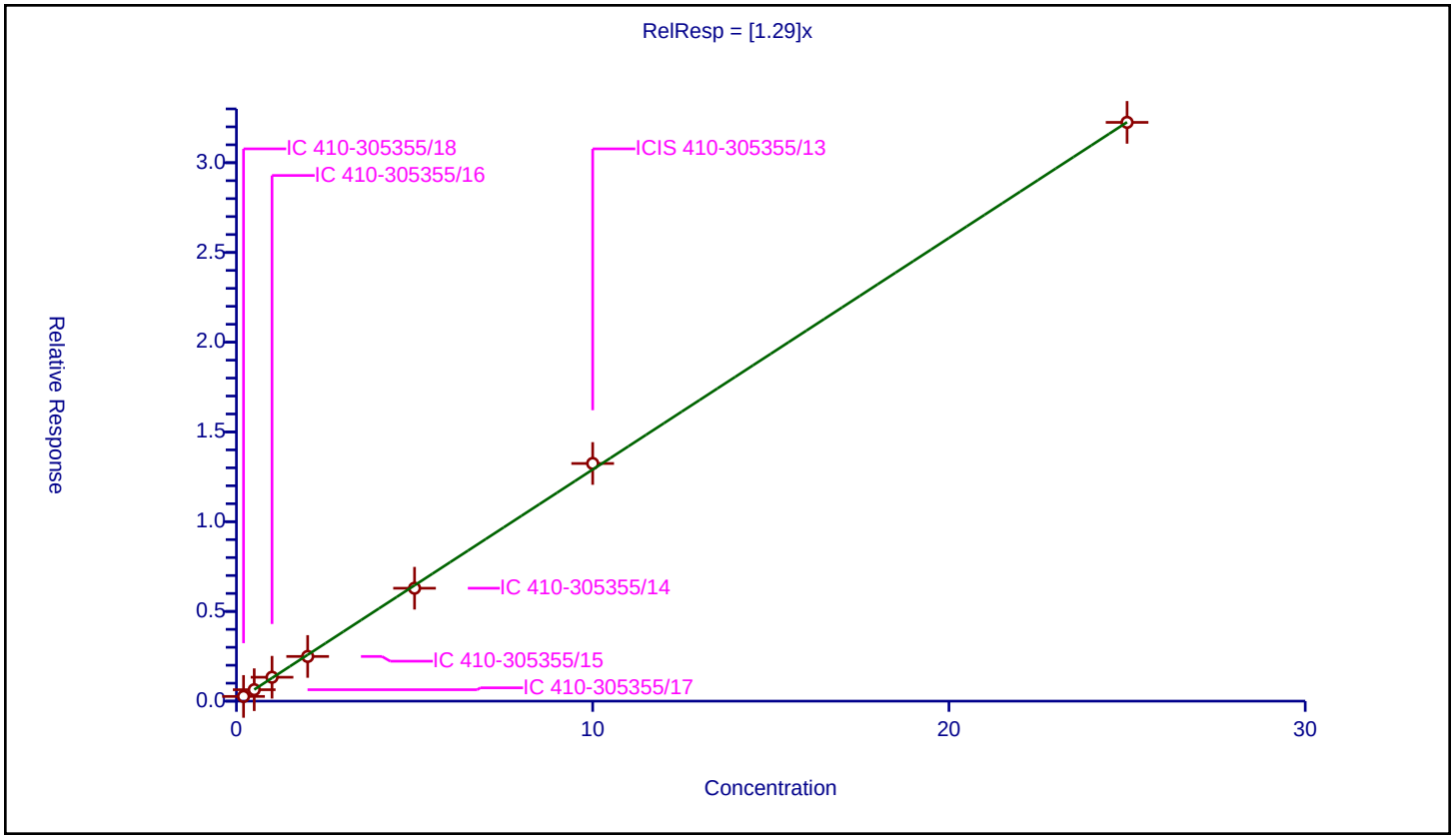
Curve Coefficients

Intercept:	0
Slope:	1.29

Error Coefficients

Standard Error:	1540000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.261745	10.0	1038646.0	1.308723	Y
2	IC 410-305355/17	0.5	0.637233	10.0	1060130.0	1.274466	Y
3	IC 410-305355/16	1.0	1.332174	10.0	1039504.0	1.332174	Y
4	IC 410-305355/15	2.0	2.489758	10.0	1029827.0	1.244879	Y
5	IC 410-305355/14	5.0	6.291706	10.0	1025380.0	1.258341	Y
6	ICIS 410-305355/13	10.0	13.243449	10.0	1032219.0	1.324345	Y
7	IC 410-305355/12	25.0	32.248729	10.0	1068377.0	1.289949	Y



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Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

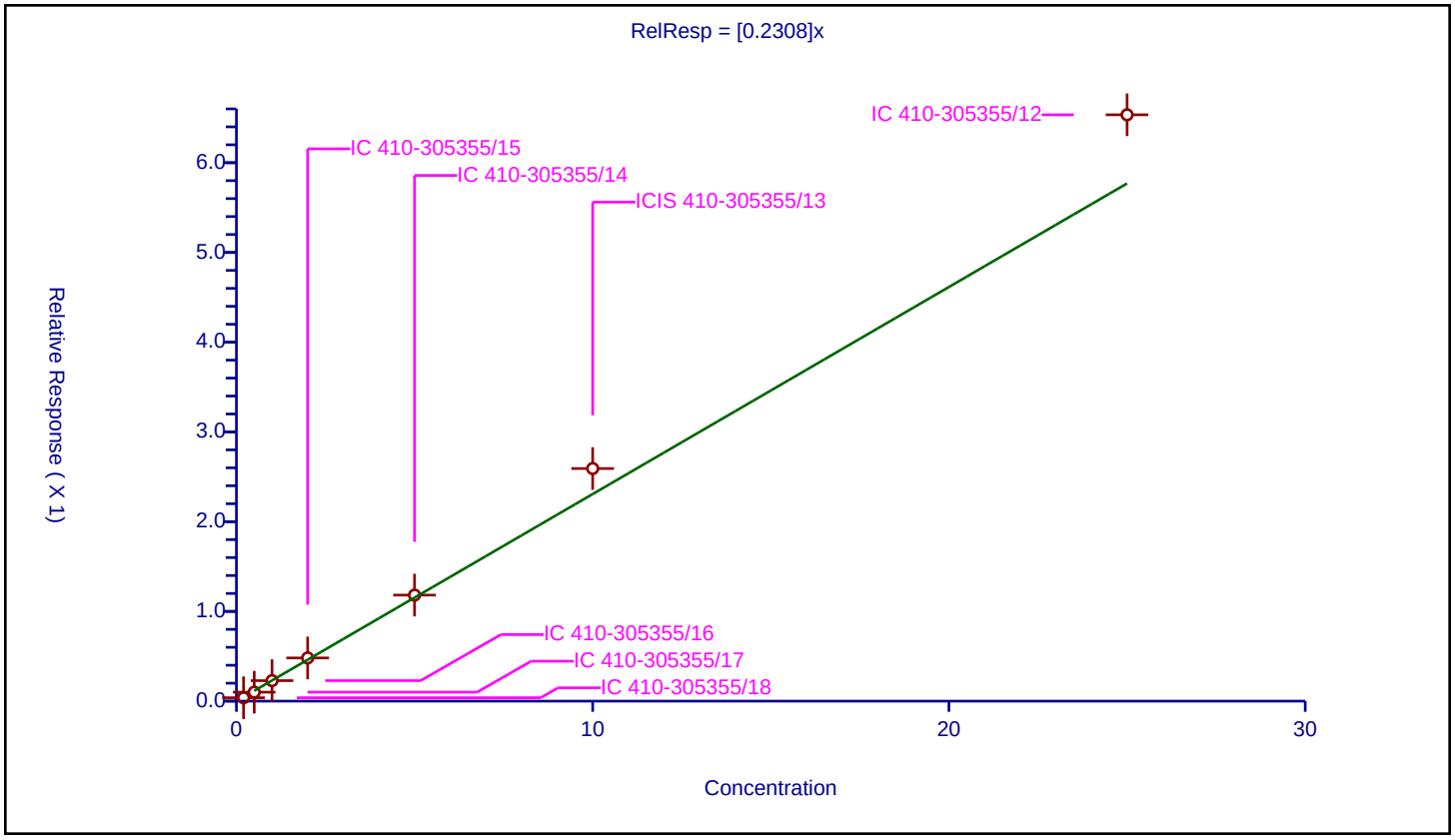
Curve Coefficients

Intercept:	0
Slope:	0.2308

Error Coefficients

Standard Error:	310000
Relative Standard Error:	11.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.037905	10.0	1038646.0	0.189526	Y
2	IC 410-305355/17	0.5	0.099978	10.0	1060130.0	0.199957	Y
3	IC 410-305355/16	1.0	0.228349	10.0	1039504.0	0.228349	Y
4	IC 410-305355/15	2.0	0.481207	10.0	1029827.0	0.240604	Y
5	IC 410-305355/14	5.0	1.181728	10.0	1025380.0	0.236346	Y
6	ICIS 410-305355/13	10.0	2.592182	10.0	1032219.0	0.259218	Y
7	IC 410-305355/12	25.0	6.534182	10.0	1068377.0	0.261367	Y



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Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

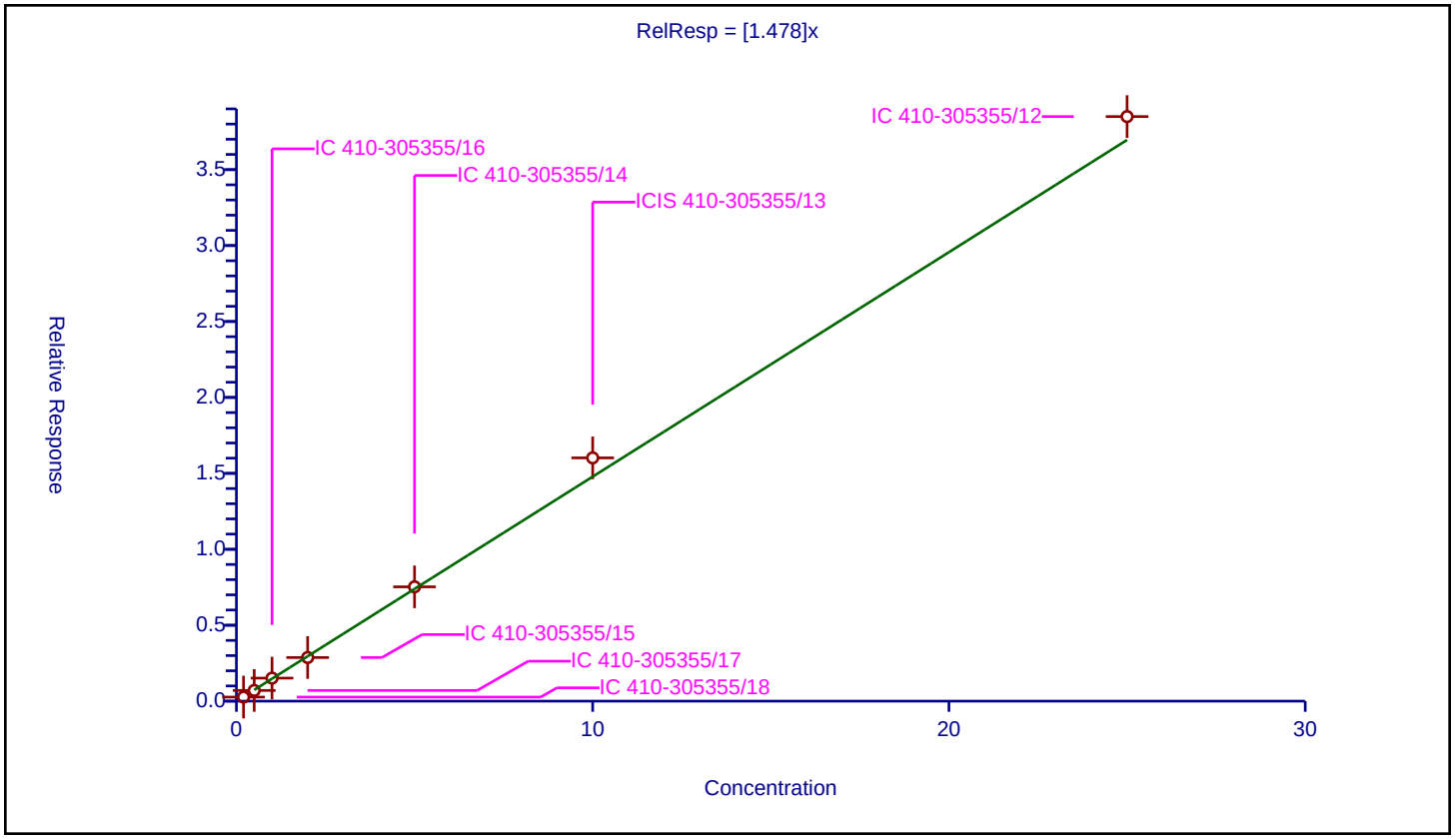
Curve Coefficients

Intercept:	0
Slope:	1.478

Error Coefficients

Standard Error:	1840000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.268166	10.0	1038646.0	1.340832	Y
2	IC 410-305355/17	0.5	0.703414	10.0	1060130.0	1.406827	Y
3	IC 410-305355/16	1.0	1.516589	10.0	1039504.0	1.516589	Y
4	IC 410-305355/15	2.0	2.871958	10.0	1029827.0	1.435979	Y
5	IC 410-305355/14	5.0	7.527258	10.0	1025380.0	1.505452	Y
6	ICIS 410-305355/13	10.0	16.019701	10.0	1032219.0	1.60197	Y
7	IC 410-305355/12	25.0	38.493463	10.0	1068377.0	1.539739	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

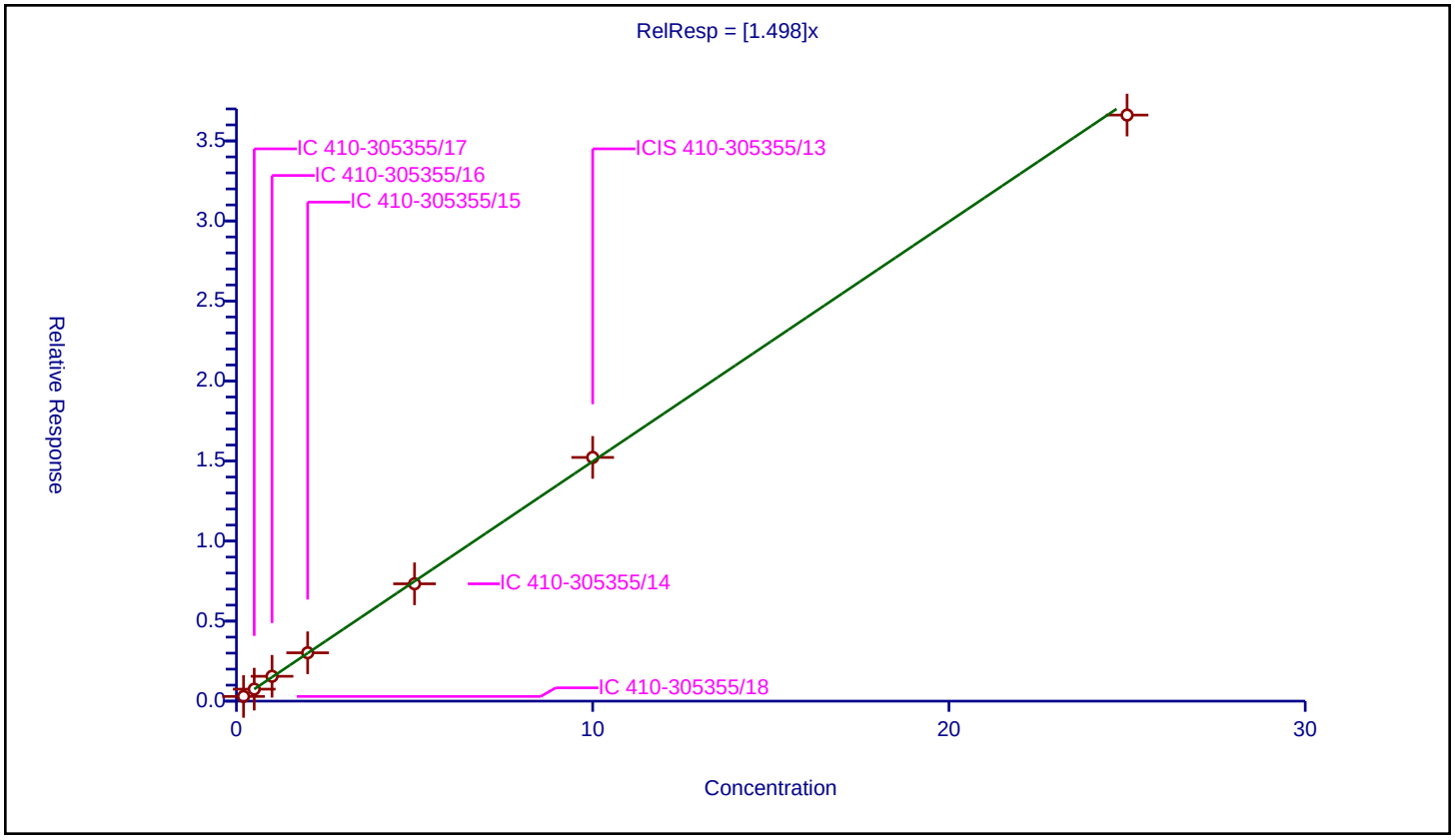
Curve Coefficients

Intercept:	0
Slope:	1.498

Error Coefficients

Standard Error:	1750000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.293603	10.0	1038646.0	1.468017	Y
2	IC 410-305355/17	0.5	0.749191	10.0	1060130.0	1.498382	Y
3	IC 410-305355/16	1.0	1.553308	10.0	1039504.0	1.553308	Y
4	IC 410-305355/15	2.0	3.020536	10.0	1029827.0	1.510268	Y
5	IC 410-305355/14	5.0	7.33096	10.0	1025380.0	1.466192	Y
6	ICIS 410-305355/13	10.0	15.226149	10.0	1032219.0	1.522615	Y
7	IC 410-305355/12	25.0	36.615296	10.0	1068377.0	1.464612	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

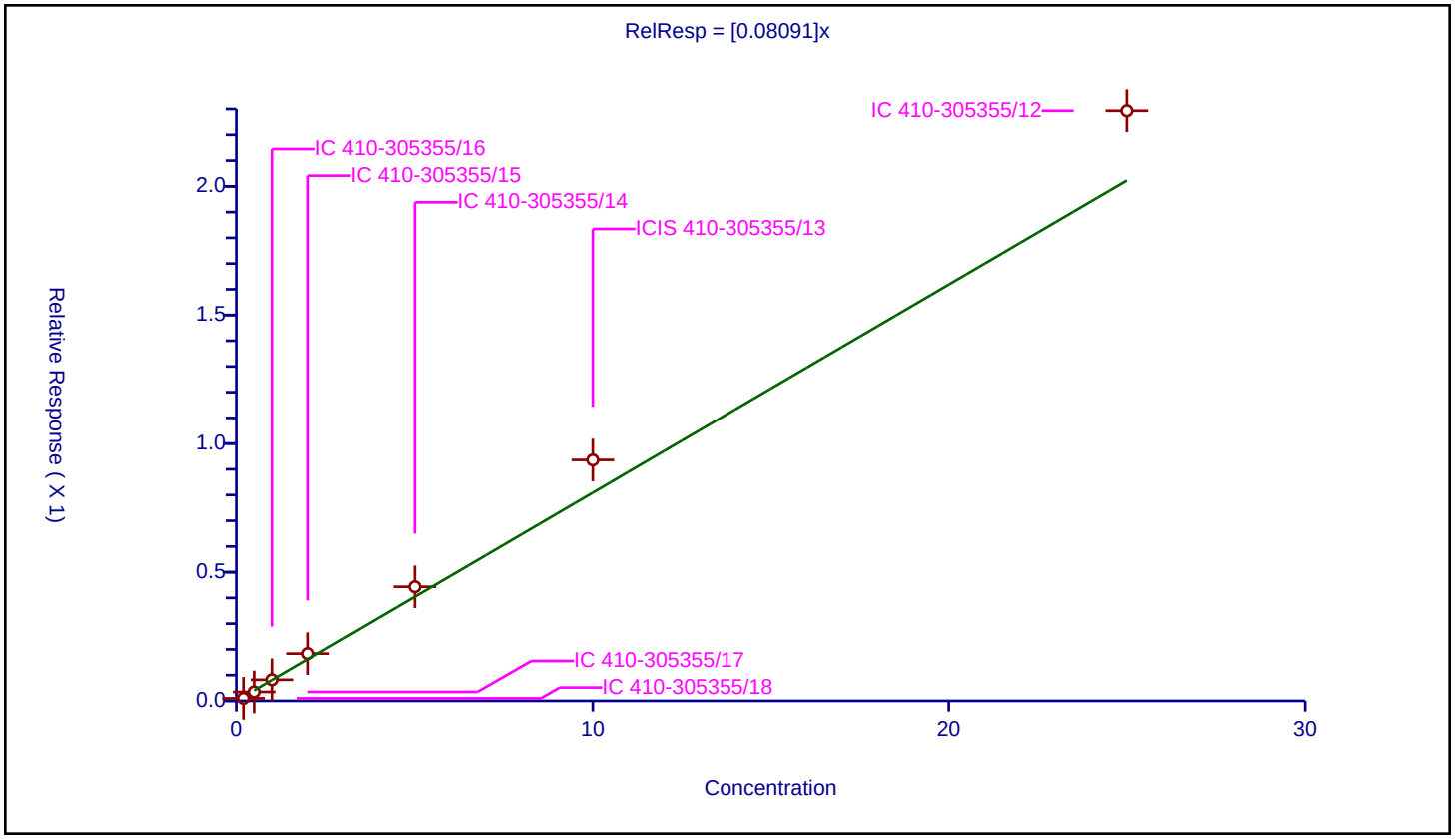
Curve Coefficients

Intercept:	0
Slope:	0.08091

Error Coefficients

Standard Error:	109000
Relative Standard Error:	20.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.958

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.00984	10.0	1038646.0	0.049199	Y
2	IC 410-305355/17	0.5	0.03476	10.0	1060130.0	0.06952	Y
3	IC 410-305355/16	1.0	0.081876	10.0	1039504.0	0.081876	Y
4	IC 410-305355/15	2.0	0.183516	10.0	1029827.0	0.091758	Y
5	IC 410-305355/14	5.0	0.443455	10.0	1025380.0	0.088691	Y
6	ICIS 410-305355/13	10.0	0.936303	10.0	1032219.0	0.09363	Y
7	IC 410-305355/12	25.0	2.293048	10.0	1068377.0	0.091722	Y



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Calibration / 1,3,5-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

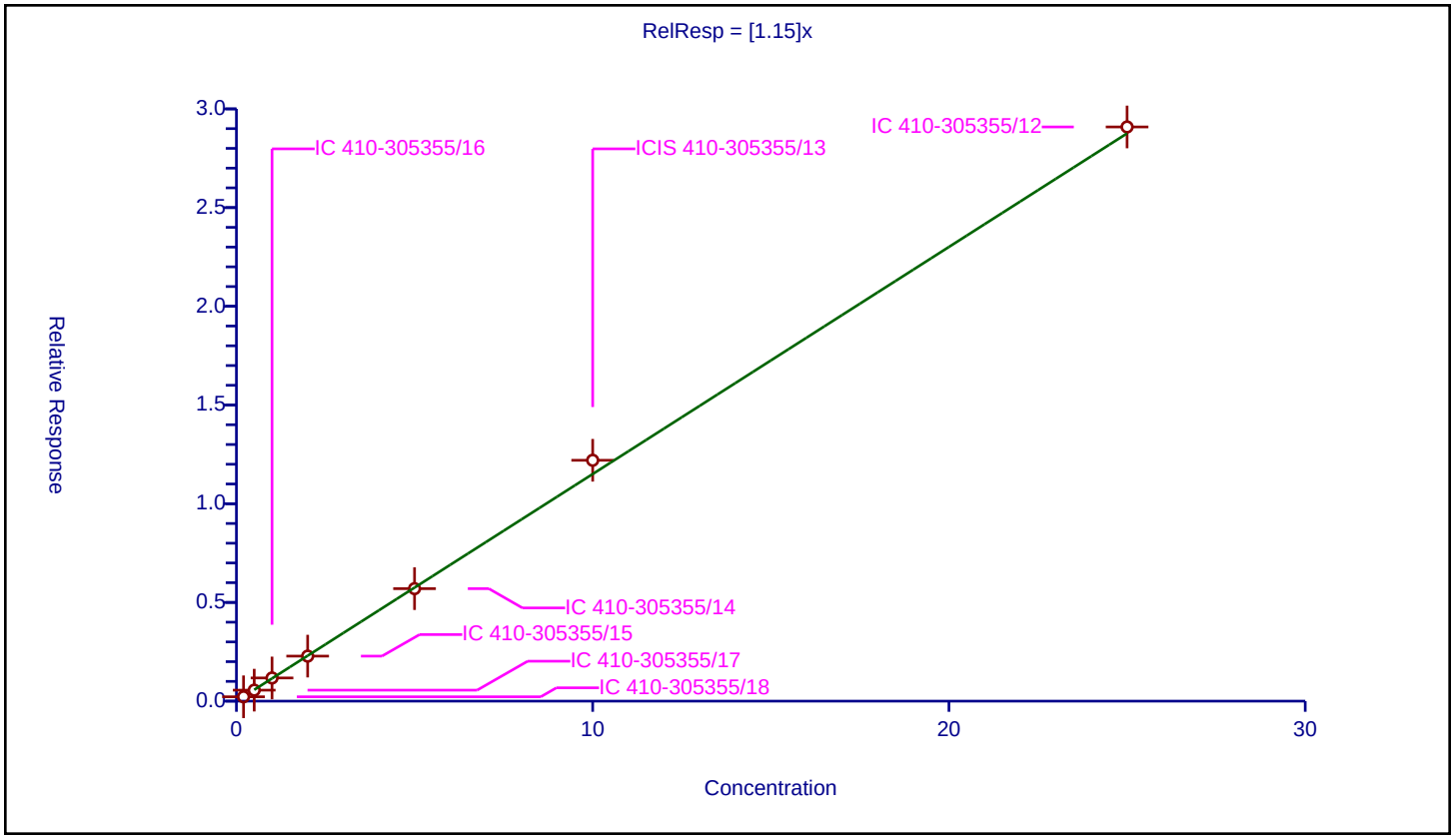
Curve Coefficients

Intercept:	0
Slope:	1.15

Error Coefficients

Standard Error:	1390000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.220537	10.0	1038646.0	1.102686	Y
2	IC 410-305355/17	0.5	0.55629	10.0	1060130.0	1.112581	Y
3	IC 410-305355/16	1.0	1.173906	10.0	1039504.0	1.173906	Y
4	IC 410-305355/15	2.0	2.2805	10.0	1029827.0	1.14025	Y
5	IC 410-305355/14	5.0	5.698141	10.0	1025380.0	1.139628	Y
6	ICIS 410-305355/13	10.0	12.201364	10.0	1032219.0	1.220136	Y
7	IC 410-305355/12	25.0	29.085819	10.0	1068377.0	1.163433	Y



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Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

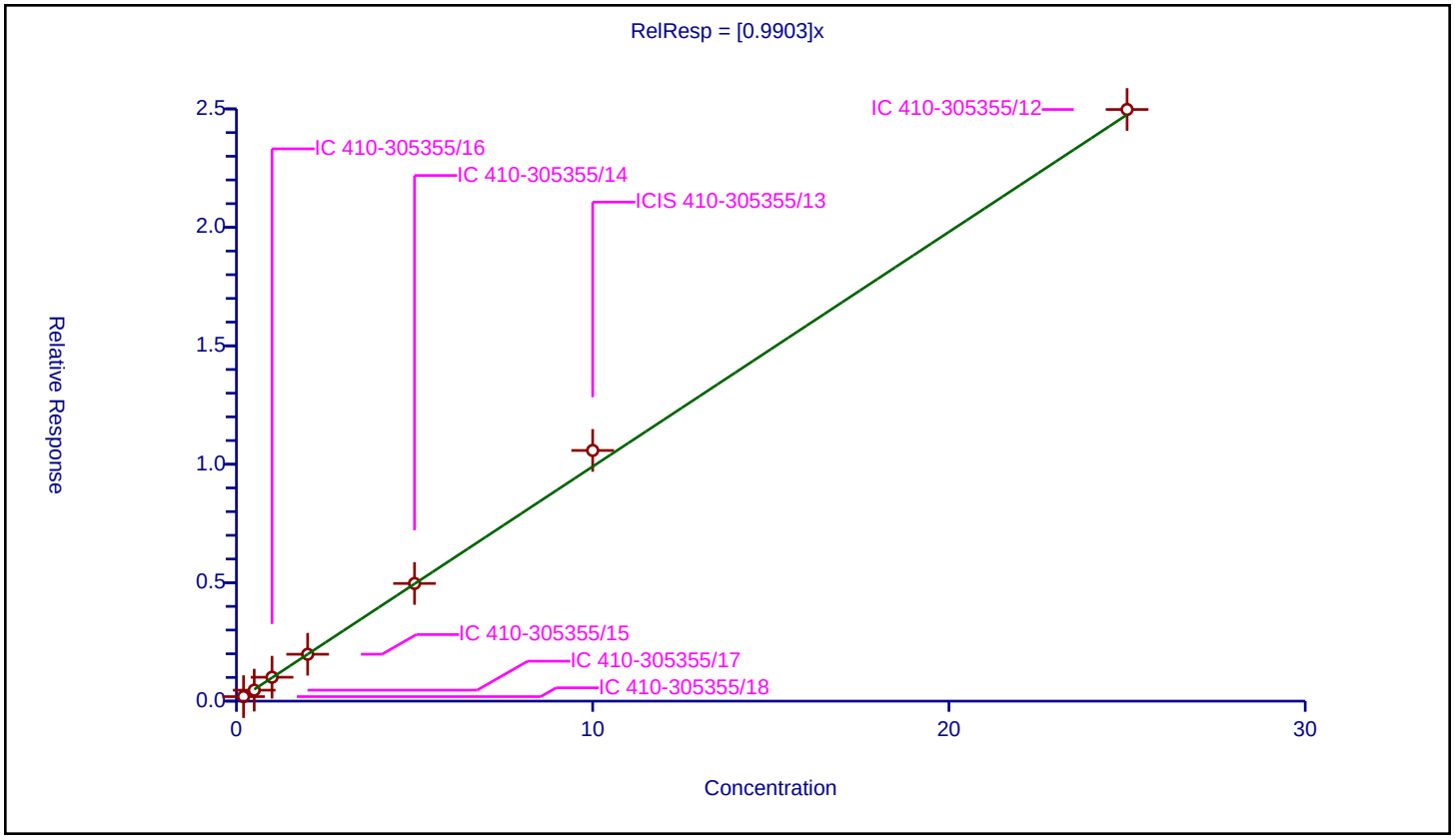
Curve Coefficients

Intercept:	0
Slope:	0.9903

Error Coefficients

Standard Error:	1200000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.190989	10.0	1038646.0	0.954945	Y
2	IC 410-305355/17	0.5	0.463811	10.0	1060130.0	0.927622	Y
3	IC 410-305355/16	1.0	1.009135	10.0	1039504.0	1.009135	Y
4	IC 410-305355/15	2.0	1.979148	10.0	1029827.0	0.989574	Y
5	IC 410-305355/14	5.0	4.967758	10.0	1025380.0	0.993552	Y
6	ICIS 410-305355/13	10.0	10.582241	10.0	1032219.0	1.058224	Y
7	IC 410-305355/12	25.0	24.975079	10.0	1068377.0	0.999003	Y



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Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

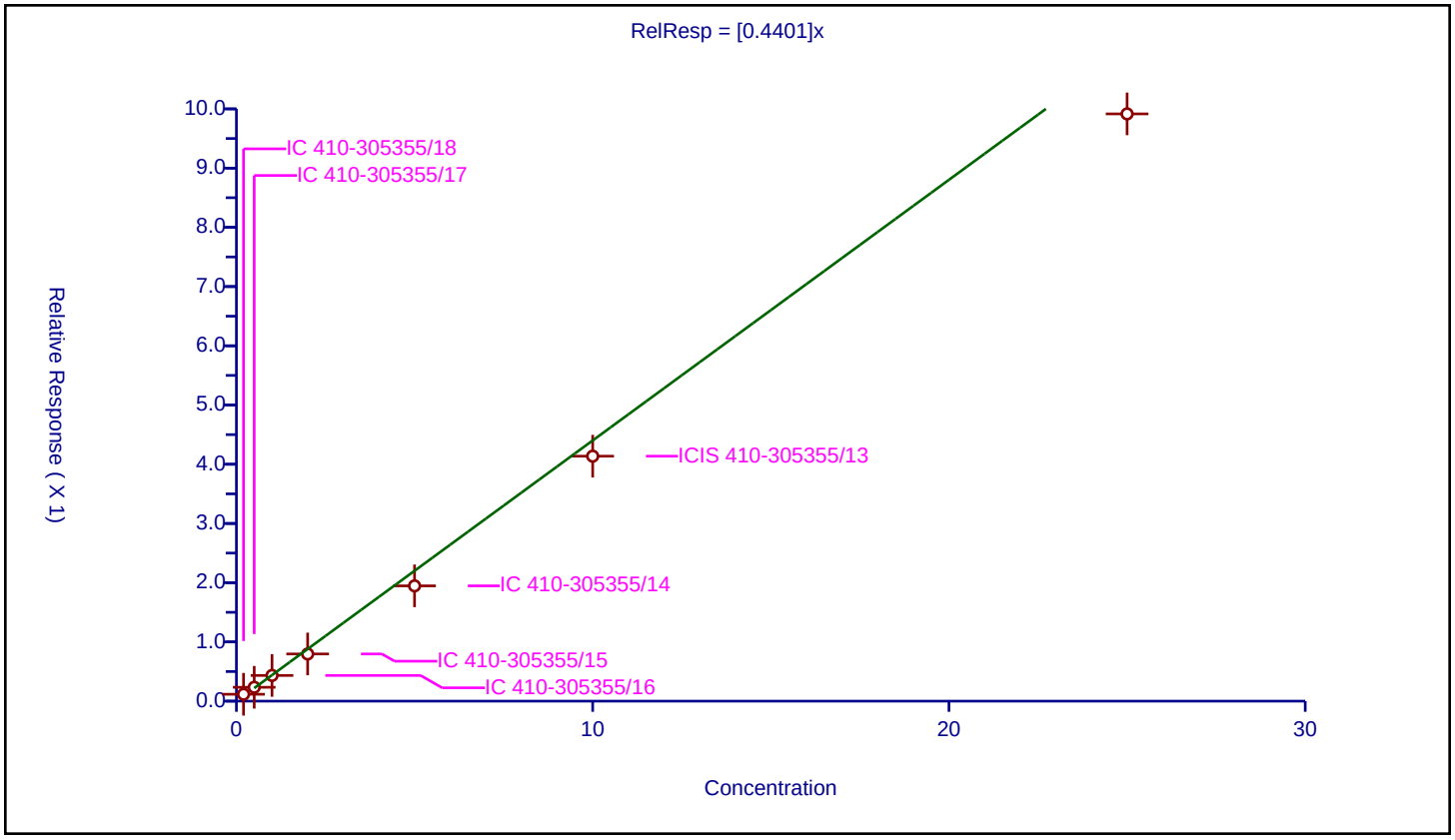
Curve Coefficients

Intercept:	0
Slope:	0.4401

Error Coefficients

Standard Error:	475000
Relative Standard Error:	15.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.960

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.116151	10.0	1038646.0	0.580756	Y
2	IC 410-305355/17	0.5	0.234169	10.0	1060130.0	0.468339	Y
3	IC 410-305355/16	1.0	0.433861	10.0	1039504.0	0.433861	Y
4	IC 410-305355/15	2.0	0.796532	10.0	1029827.0	0.398266	Y
5	IC 410-305355/14	5.0	1.946751	10.0	1025380.0	0.38935	Y
6	ICIS 410-305355/13	10.0	4.136283	10.0	1032219.0	0.413628	Y
7	IC 410-305355/12	25.0	9.915339	10.0	1068377.0	0.396614	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

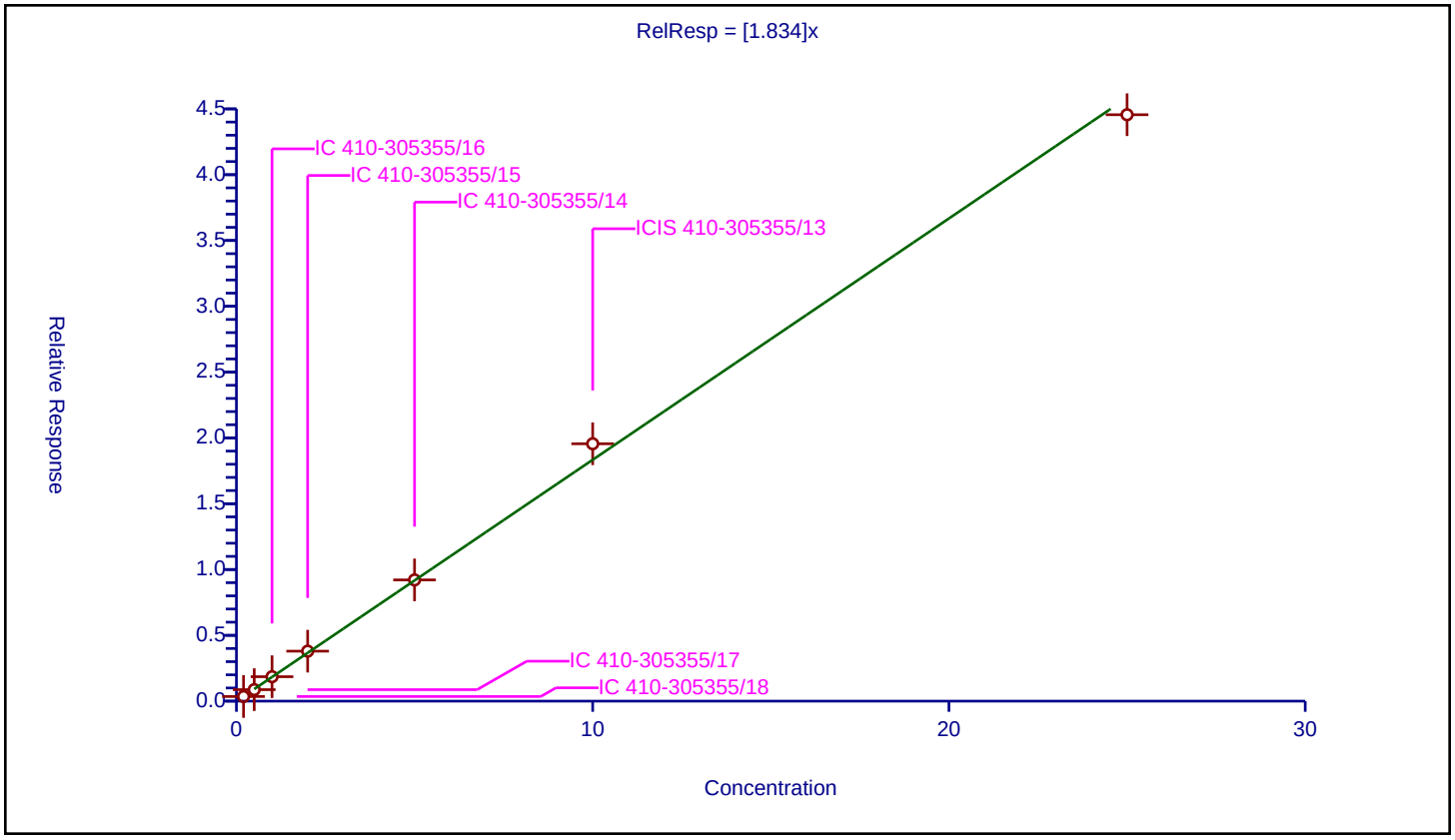
Curve Coefficients

Intercept:	0
Slope:	1.834

Error Coefficients

Standard Error:	2150000
Relative Standard Error:	4.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.350995	10.0	1038646.0	1.754977	Y
2	IC 410-305355/17	0.5	0.873063	10.0	1060130.0	1.746125	Y
3	IC 410-305355/16	1.0	1.856635	10.0	1039504.0	1.856635	Y
4	IC 410-305355/15	2.0	3.797094	10.0	1029827.0	1.898547	Y
5	IC 410-305355/14	5.0	9.210498	10.0	1025380.0	1.8421	Y
6	ICIS 410-305355/13	10.0	19.557013	10.0	1032219.0	1.955701	Y
7	IC 410-305355/12	25.0	44.557118	10.0	1068377.0	1.782285	Y



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Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

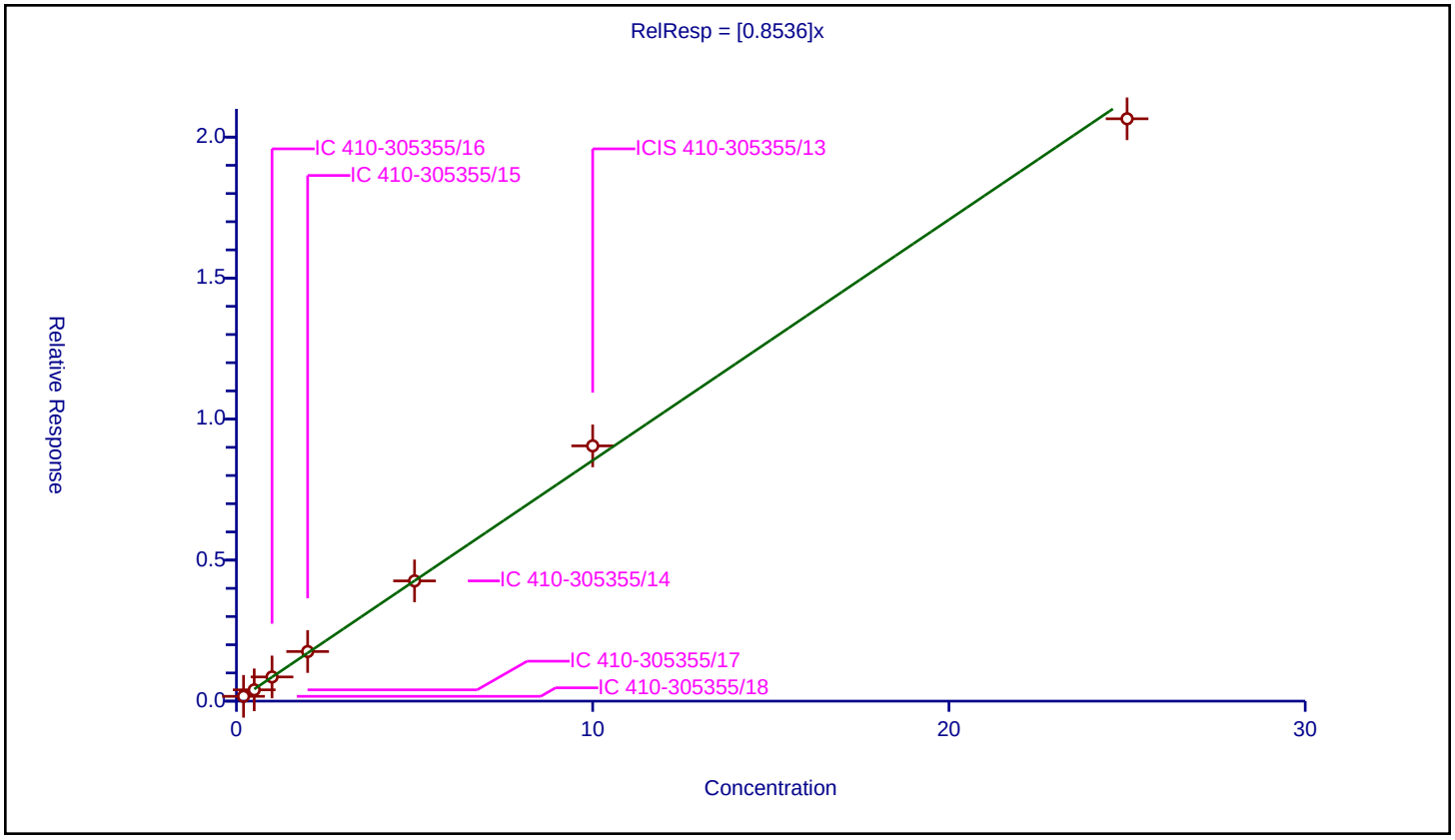
Curve Coefficients

Intercept:	0
Slope:	0.8536

Error Coefficients

Standard Error:	998000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-305355/18	0.2	0.170472	10.0	1038646.0	0.85236	Y
2	IC 410-305355/17	0.5	0.400687	10.0	1060130.0	0.801373	Y
3	IC 410-305355/16	1.0	0.858102	10.0	1039504.0	0.858102	Y
4	IC 410-305355/15	2.0	1.758674	10.0	1029827.0	0.879337	Y
5	IC 410-305355/14	5.0	4.263824	10.0	1025380.0	0.852765	Y
6	ICIS 410-305355/13	10.0	9.051723	10.0	1032219.0	0.905172	Y
7	IC 410-305355/12	25.0	20.649237	10.0	1068377.0	0.825969	Y



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FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-103501-1

SDG No.:

Lab Sample ID: ICV 410-286414/21 Calibration Date: 08/16/2022 20:22

Instrument ID: 16334 Calib Start Date: 08/16/2022 17:26

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/16/2022 19:38

Lab File ID: GG16X20.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	0.2596	0.2619	0.1000	5.04	5.00	0.9	30.0
Chloromethane	Ave	0.2928	0.2624	0.1000	4.48	5.00	-10.4	30.0
Vinyl chloride	Ave	0.2992	0.2820	0.1000	4.71	5.00	-5.8	30.0
1,3-Butadiene	Ave	0.2845	0.2407		4.23	5.00	-15.4	30.0
Bromomethane	Ave	0.2361	0.2205	0.1000	4.67	5.00	-6.6	30.0
Chloroethane	Ave	0.1784	0.1689	0.1000	4.73	5.00	-5.3	30.0
Dichlorofluoromethane	Ave	0.4362	0.4183		4.79	5.00	-4.1	30.0
Trichlorofluoromethane	Ave	0.4114	0.3973	0.1000	4.83	5.00	-3.4	30.0
Pentane	None					5.00		30.0
Ethyl ether	Ave	0.1909	0.1892		4.94	4.98	-0.9	30.0
Freon 123a	Ave	0.2906	0.2656		4.57	5.00	-8.6	30.0
Acrolein	Ave	2.311	2.358		38.2	37.5	2.0	30.0
1,1-Dichloroethene	Ave	0.2154	0.2171	0.1000	5.04	5.00	0.8	30.0
Acetone	Ave	2.535	2.365	0.1000	58.3	62.5	-6.7	30.0
Freon 113	Ave	0.2100	0.2267	0.1000	5.40	5.00	8.0	30.0
Methyl iodide	Ave	0.4078	0.4238		5.20	5.00	3.9	30.0
Ethyl bromide	Ave	0.1978	0.1727		4.27	4.89	-12.7	30.0
Carbon disulfide	Ave	0.5255	0.6002	0.1000	5.71	5.00	14.2	30.0
Methyl acetate	Ave	7.861	7.210	0.1000	4.59	5.00	-8.3	30.0
Allyl chloride	Ave	0.2907	0.2968		5.10	5.00	2.1	30.0
Methylene Chloride	Ave	0.2387	0.2326	0.1000	4.87	5.00	-2.5	30.0
t-Butyl alcohol	Ave	0.8863	0.8949		50.5	50.0	1.0	30.0
Acrylonitrile	Ave	3.363	3.691		27.4	25.0	9.8	30.0
Methyl tert-butyl ether	Ave	0.6147	0.6020	0.1000	4.90	5.00	-2.1	30.0
trans-1,2-Dichloroethene	Ave	0.2516	0.2404	0.1000	4.78	5.00	-4.5	30.0
n-Hexane	Ave	0.2746	0.2771		5.05	5.00	0.9	30.0
1,1-Dichloroethane	Ave	0.4087	0.3886	0.2000	4.75	5.00	-4.9	30.0
di-Isopropyl ether	Ave	0.6761	0.6647		4.92	5.00	-1.7	30.0
2-Chloro-1,3-butadiene	Ave	0.3253	0.3376		5.19	5.00	3.8	30.0
Ethyl t-butyl ether	Ave	0.6956	0.7019		5.04	5.00	0.9	30.0
2-Butanone (MEK)	Ave	5.008	5.156	0.1000	64.4	62.5	3.0	30.0
cis-1,2-Dichloroethene	Ave	0.2749	0.2751	0.1000	5.00	5.00	0.0	30.0
2,2-Dichloropropane	Ave	0.3306	0.3330		5.04	5.00	0.7	30.0
Propionitrile	Ave	1.187	1.133		35.8	37.5	-4.5	30.0
Methacrylonitrile	Ave	5.343	5.541		38.9	37.5	3.7	30.0
Bromochloromethane	Ave	0.1317	0.1318		5.00	5.00	0.0	30.0
Tetrahydrofuran	Ave	1.487	1.599		26.9	25.0	7.6	30.0
Chloroform	Ave	0.4380	0.4236	0.2000	4.84	5.00	-3.3	30.0
1,1,1-Trichloroethane	Ave	0.3821	0.3761	0.1000	4.92	5.00	-1.6	30.0
Cyclohexane	Ave	0.3475	0.3480	0.1000	5.01	5.00	0.2	30.0
1,1-Dichloropropene	Ave	0.3396	0.3298		4.86	5.00	-2.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-103501-1

SDG No.:

Lab Sample ID: ICV 410-286414/21 Calibration Date: 08/16/2022 20:22

Instrument ID: 16334 Calib Start Date: 08/16/2022 17:26

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/16/2022 19:38

Lab File ID: GG16X20.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon tetrachloride	Ave	0.3289	0.3311	0.1000	5.03	5.00	0.7	30.0
Isobutyl alcohol	Ave	0.0036	0.0034		118	125	-5.6	30.0
Benzene	Ave	1.002	0.9679	0.5000	4.83	5.00	-3.4	30.0
1,2-Dichloroethane	Ave	0.2855	0.2659	0.1000	4.66	5.00	-6.9	30.0
t-Amyl methyl ether	Ave	0.6594	0.6520		4.94	5.00	-1.1	30.0
n-Heptane	Ave	0.2871	0.2886		5.03	5.00	0.5	30.0
n-Butanol	Ave	0.2586	0.2738		265	250	5.9	30.0
Trichloroethene	Ave	0.2796	0.2693	0.2000	4.82	5.00	-3.7	30.0
Methylcyclohexane	Ave	0.4162	0.4253	0.1000	5.11	5.00	2.2	30.0
1,2-Dichloropropane	Ave	0.2449	0.2364	0.1000	4.83	5.00	-3.5	30.0
Methyl methacrylate	Ave	10.41	10.96		5.27	5.00	5.3	30.0
Dibromomethane	Ave	0.1344	0.1307		4.86	5.00	-2.8	30.0
1,4-Dioxane	Lin2		0.0557	0.0050	126	125	0.6	30.0
Bromodichloromethane	Ave	0.2943	0.2974	0.2000	5.05	5.00	1.1	30.0
2-Nitropropane	Ave	2.340	2.234		4.77	5.00	-4.5	30.0
1-Bromo-2-chloroethane	Ave	0.2652	0.2581		4.87	5.00	-2.7	30.0
cis-1,3-Dichloropropene	Ave	0.3671	0.3656	0.2000	4.98	5.00	-0.4	30.0
4-Methyl-2-pentanone (MIBK)	Ave	13.18	13.65	0.1000	64.7	62.5	3.6	30.0
Toluene	Ave	0.8674	0.8290	0.4000	4.78	5.00	-4.4	30.0
trans-1,3-Dichloropropene	Ave	0.3864	0.4020	0.1000	5.20	5.00	4.0	30.0
Ethyl methacrylate	Ave	0.3328	0.3458		5.19	5.00	3.9	30.0
1,1,2-Trichloroethane	Ave	0.2551	0.2462	0.1000	4.83	5.00	-3.5	30.0
Tetrachloroethene	Ave	0.4369	0.4251	0.2000	4.87	5.00	-2.7	30.0
1,3-Dichloropropane	Ave	0.4185	0.4041		4.83	5.00	-3.4	30.0
2-Hexanone	Ave	9.609	10.34	0.1000	67.2	62.5	7.6	30.0
Dibromochloromethane	Ave	0.2790	0.2904		5.20	5.00	4.1	30.0
1,2-Dibromoethane (EDB)	Ave	0.2511	0.2447	0.1000	4.87	5.00	-2.6	30.0
1-Chlorohexane	Ave	0.4862	0.4615		4.75	5.00	-5.1	30.0
Chlorobenzene	Ave	1.050	0.996	0.5000	4.75	5.00	-5.1	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3370	0.3374		5.01	5.00	0.1	30.0
Ethylbenzene	Ave	1.682	1.628	0.1000	4.84	5.00	-3.2	30.0
m&p-Xylene	Ave	0.6759	0.6591	0.1000	9.75	10.0	-2.5	30.0
o-Xylene	Ave	0.6696	0.6479	0.3000	4.84	5.00	-3.2	30.0
Styrene	Ave	1.134	1.107	0.3000	4.88	5.00	-2.4	30.0
Bromoform	Ave	0.1570	0.1703	0.1000	5.42	5.00	8.4	30.0
Isopropylbenzene	Ave	1.712	1.696	0.1000	4.95	5.00	-0.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5342	0.5202	0.3000	4.87	5.00	-2.6	30.0
Bromobenzene	Ave	0.7697	0.7509		4.88	5.00	-2.4	30.0
trans-1,4-Dichloro-2-butene	Ave	4.847	5.279		27.2	25.0	8.9	30.0
1,2,3-Trichloropropane	Ave	0.1534	0.1490		4.86	5.00	-2.9	30.0
N-Propylbenzene	Ave	3.363	3.241		4.82	5.00	-3.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-103501-1

SDG No.:

Lab Sample ID: ICV 410-286414/21 Calibration Date: 08/16/2022 20:22

Instrument ID: 16334 Calib Start Date: 08/16/2022 17:26

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/16/2022 19:38

Lab File ID: GG16X20.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
2-Chlorotoluene	Ave	0.7395	0.7057		4.77	5.00	-4.6	30.0
1,3,5-Trimethylbenzene	Ave	2.519	2.430		4.82	5.00	-3.5	30.0
4-Chlorotoluene	Ave	0.7729	0.7353		4.76	5.00	-4.9	30.0
tert-Butylbenzene	Ave	0.5805	0.5420		4.67	5.00	-6.6	30.0
Pentachloroethane	Ave	0.4154	0.4496		5.41	5.00	8.2	30.0
1,2,4-Trimethylbenzene	Ave	2.595	2.516		4.85	5.00	-3.0	30.0
sec-Butylbenzene	Ave	3.159	3.154		4.99	5.00	-0.2	30.0
1,3-Dichlorobenzene	Ave	1.590	1.493	0.6000	4.70	5.00	-6.1	30.0
p-Isopropyltoluene	Ave	2.881	2.837		4.92	5.00	-1.5	30.0
1,4-Dichlorobenzene	Ave	1.664	1.537	0.5000	4.62	5.00	-7.7	30.0
1,2,3-Trimethylbenzene	Ave	1.191	1.149		4.82	5.00	-3.5	30.0
Benzyl chloride	Lin1		0.1805		4.40	5.00	-12.0	30.0
n-Butylbenzene	Ave	1.407	1.346		4.78	5.00	-4.4	30.0
1,2-Dichlorobenzene	Ave	1.492	1.397	0.4000	4.68	5.00	-6.3	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0787	0.0768	0.0500	4.88	5.00	-2.4	30.0
1,3,5-Trichlorobenzene	Ave	1.282	1.230		4.80	5.00	-4.0	30.0
1,2,4-Trichlorobenzene	Ave	1.202	1.122	0.2000	4.67	5.00	-6.6	30.0
Hexachlorobutadiene	Ave	0.5695	0.5612		4.93	5.00	-1.5	30.0
Naphthalene	Ave	2.034	1.907		4.69	5.00	-6.2	30.0
1,2,3-Trichlorobenzene	Ave	1.062	1.001		4.71	5.00	-5.8	30.0
Dibromofluoromethane (Surr)	Ave	0.2483	0.2512		10.1	10.0	1.2	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0527	0.0526		9.98	10.0	-0.2	30.0
Toluene-d8 (Surr)	Ave	1.281	1.282		10.0	10.0	0.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4767	0.4785		10.0	10.0	0.4	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X20.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 16-Aug-2022 20:22:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064243-021
Misc. Info.: ICV
Operator ID: knk41612 Instrument ID: 16334
Sublist:

Method: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 30-Aug-2022 10:58:17 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 17-Aug-2022 11:50:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.892	1.892	0.000	99	307761	5.00	5.04	
5 Chloromethane	50	2.087	2.087	0.000	99	308422	5.00	4.48	
6 Vinyl chloride	62	2.203	2.202	0.001	98	331418	5.00	4.71	
7 Butadiene	39	2.209	2.215	-0.006	93	282851	5.00	4.23	
9 Bromomethane	94	2.520	2.526	-0.006	90	259137	5.00	4.67	
10 Chloroethane	64	2.599	2.599	0.000	99	198479	5.00	4.73	
11 Dichlorofluoromethane	67	2.837	2.836	0.001	97	491576	5.00	4.79	
12 Trichlorofluoromethane	101	2.898	2.904	-0.006	96	466899	5.00	4.83	
13 Ethyl ether	59	3.123	3.123	0.000	89	221726	4.98	4.94	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.215	3.221	-0.006	90	312094	5.00	4.57	
17 Acrolein	56	3.294	3.288	0.006	99	234718	37.5	38.2	
18 1,1-Dichloroethene	96	3.416	3.416	0.000	97	255181	5.00	5.04	
20 Acetone	43	3.465	3.458	0.007	85	392587	62.5	58.3	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.465	3.464	0.001	91	266412	5.00	5.40	
21 Iodomethane	142	3.599	3.605	-0.006	98	498058	5.00	5.20	
22 Ethyl bromide	108	3.635	3.629	0.006	98	198307	4.89	4.27	
24 Isopropyl alcohol	45	3.690	3.690	0.000	30	44454	37.5	34.2	
23 Carbon disulfide	76	3.702	3.702	0.000	99	705397	5.00	5.71	
25 Methyl acetate	43	3.861	3.855	0.006	40	95732	5.00	4.59	
27 3-Chloro-1-propene	41	3.873	3.873	0.000	91	348751	5.00	5.10	
29 Methylene Chloride	84	4.056	4.056	0.000	88	273356	5.00	4.87	
* 30 t-Butyl alcohol-d10 (IS)	65	4.123	4.111	0.012	59	132771	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.245	4.245	0.000	99	118811	50.0	50.5	
32 Acrylonitrile	53	4.403	4.391	0.012	98	245044	25.0	27.4	
33 Methyl tert-butyl ether	73	4.446	4.446	0.000	89	707491	5.00	4.90	
34 trans-1,2-Dichloroethene	96	4.458	4.458	0.000	97	282507	5.00	4.78	
35 Hexane	57	4.885	4.885	0.000	92	325649	5.00	5.05	
37 1,1-Dichloroethane	63	5.123	5.123	0.000	96	456730	5.00	4.75	
38 Isopropyl ether	45	5.190	5.184	0.006	93	781214	5.00	4.92	
39 2-Chloro-1,3-butadiene	53	5.233	5.232	0.001	90	396778	5.00	5.19	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.726	5.720	0.006	97	824842	5.00	5.04	
41 2-Butanone (MEK)	43	5.934	5.933	0.001	99	855767	62.5	64.4	
42 cis-1,2-Dichloroethene	96	5.964	5.964	0.000	80	323301	5.00	5.00	
43 2,2-Dichloropropane	77	5.982	5.976	0.006	86	391351	5.00	5.04	
45 Propionitrile	54	6.037	6.025	0.012	99	112818	37.5	35.8	
48 Methacrylonitrile	67	6.232	6.238	-0.006	90	551714	37.5	38.9	
49 Chlorobromomethane	128	6.293	6.293	0.000	86	154844	5.00	5.00	
50 Tetrahydrofuran	71	6.306	6.299	0.007	85	106182	25.0	26.9	
51 Chloroform	83	6.446	6.452	-0.006	93	497805	5.00	4.84	
$ 52 Dibromofluoromethane (Surr)	113	6.665	6.665	0.000	94	590378	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.677	6.671	0.006	98	442027	5.00	4.92	
54 Cyclohexane	56	6.769	6.769	0.000	88	409009	5.00	5.01	
56 Carbon tetrachloride	117	6.885	6.884	0.001	97	389158	5.00	5.03	
57 1,1-Dichloropropene	75	6.885	6.891	-0.006	96	387591	5.00	4.86	
58 Isobutyl alcohol	41	7.086	7.073	0.013	91	99512	125.0	118.0	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.116	7.116	0.000	94	123699	10.0	9.98	
60 Benzene	78	7.147	7.153	-0.006	96	1137519	5.00	4.83	
61 1,2-Dichloroethane	62	7.220	7.220	0.000	98	312510	5.00	4.66	
63 Tert-amyl methyl ether	73	7.348	7.348	0.000	99	766290	5.00	4.94	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2350459	10.0	10.0	
65 n-Heptane	43	7.574	7.573	0.001	90	339225	5.00	5.03	
67 n-Butanol	56	7.976	7.970	0.006	87	181781	250.0	264.7	
68 Trichloroethene	95	8.037	8.043	-0.006	96	316512	5.00	4.82	
69 Methylcyclohexane	83	8.342	8.341	0.001	91	499858	5.00	5.11	
70 1,2-Dichloropropane	63	8.372	8.372	0.000	91	277833	5.00	4.83	
71 2-ethoxy-2-methyl butane	87	8.384	8.390	-0.006	95	458374	5.00	4.97	
72 Methyl methacrylate	69	8.464	8.463	0.001	88	145562	5.00	5.27	
73 Dibromomethane	93	8.482	8.482	0.000	93	153569	5.00	4.86	
74 1,4-Dioxane	88	8.519	8.512	0.007	75	18487	125.0	125.7	M
76 Dichlorobromomethane	83	8.720	8.726	-0.006	99	349554	5.00	5.05	
77 2-Nitropropane	41	9.000	9.000	0.000	99	29662	5.00	4.77	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	98	303348	5.00	4.87	
81 cis-1,3-Dichloropropene	75	9.281	9.280	0.001	97	429717	5.00	4.98	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	96	2265574	62.5	64.7	
$ 83 Toluene-d8 (Surr)	98	9.591	9.591	0.000	93	2385812	10.0	10.0	
84 Toluene	92	9.671	9.671	0.001	98	771618	5.00	4.78	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	92	374183	5.00	5.20	
104 Ethyl methacrylate	69	10.006	10.006	0.000	88	321821	5.00	5.19	
106 1,1,2-Trichloroethane	97	10.146	10.146	0.000	91	229187	5.00	4.83	
107 Tetrachloroethene	166	10.232	10.231	0.001	97	395687	5.00	4.87	
108 1,3-Dichloropropane	76	10.311	10.311	0.000	88	376142	5.00	4.83	
109 2-Hexanone	43	10.366	10.365	0.001	95	1715735	62.5	67.2	
111 Chlorodibromomethane	129	10.524	10.524	0.000	89	270329	5.00	5.20	
112 Ethylene Dibromide	107	10.634	10.634	0.000	98	227735	5.00	4.87	
* 113 Chlorobenzene-d5 (IS)	117	11.073	11.073	0.000	84	1861581	10.0	10.0	
114 1-Chlorohexane	91	11.085	11.085	0.000	94	429543	5.00	4.75	
115 Chlorobenzene	112	11.097	11.097	0.000	96	927506	5.00	4.75	
117 1,1,1,2-Tetrachloroethane	131	11.183	11.182	0.001	95	314073	5.00	5.01	
116 Ethylbenzene	91	11.189	11.189	0.001	98	1515158	5.00	4.84	
119 m-Xylene & p-Xylene	106	11.305	11.304	0.001	100	1227054	10.0	9.75	
120 o-Xylene	106	11.634	11.634	0.000	96	603021	5.00	4.84	
121 Styrene	104	11.652	11.652	0.000	94	1030067	5.00	4.88	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
122 Bromoform	173	11.804	11.804	0.000	98	158473	5.00	5.42	
123 Isopropylbenzene	105	11.939	11.938	0.001	95	1578173	5.00	4.95	
$ 126 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	94	890713	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.182	12.188	-0.006	94	288804	5.00	4.87	
128 Bromobenzene	156	12.195	12.194	0.001	94	416846	5.00	4.88	
129 trans-1,4-Dichloro-2-butene	53	12.207	12.213	-0.006	93	350468	25.0	27.2	
130 1,2,3-Trichloropropane	110	12.231	12.231	0.000	83	82700	5.00	4.86	
131 N-Propylbenzene	91	12.268	12.268	0.000	98	1799402	5.00	4.82	
132 2-Chlorotoluene	126	12.341	12.341	0.000	97	391783	5.00	4.77	
133 1,3,5-Trimethylbenzene	105	12.402	12.402	0.000	94	1349009	5.00	4.82	
134 4-Chlorotoluene	126	12.438	12.438	0.000	96	408191	5.00	4.76	
135 tert-Butylbenzene	134	12.646	12.646	0.000	92	300913	5.00	4.67	
136 Pentachloroethane	167	12.676	12.676	0.000	91	249612	5.00	5.41	
137 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	96	1396929	5.00	4.85	
138 sec-Butylbenzene	105	12.810	12.810	0.000	93	1750858	5.00	4.99	
139 1,3-Dichlorobenzene	146	12.908	12.908	0.000	99	828712	5.00	4.70	
140 4-Isopropyltoluene	119	12.914	12.920	-0.006	97	1574703	5.00	4.92	
* 141 1,4-Dichlorobenzene-d4	152	12.963	12.963	0.000	93	1110282	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.981	12.981	0.000	95	853063	5.00	4.62	
143 1,2,3-Trimethylbenzene	120	12.993	12.993	0.000	98	637988	5.00	4.82	
144 Benzyl chloride	126	13.060	13.060	0.000	98	100226	5.00	4.40	
145 p-Diethylbenzene	119	13.115	13.121	-0.006	92	933769	5.00	4.91	
146 n-Butylbenzene	92	13.207	13.206	0.001	97	747142	5.00	4.78	
147 1,2-Dichlorobenzene	146	13.243	13.243	0.000	99	775495	5.00	4.68	
149 1,2-Dibromo-3-Chloropropane	155	13.786	13.786	0.000	90	42627	5.00	4.88	
150 1,3,5-Trichlorobenzene	180	13.908	13.907	0.001	98	682932	5.00	4.80	
151 1,2,4-Trichlorobenzene	180	14.328	14.328	0.000	94	623059	5.00	4.67	
152 Hexachlorobutadiene	225	14.414	14.413	0.001	96	311571	5.00	4.93	
153 Naphthalene	128	14.511	14.511	0.000	97	1058669	5.00	4.69	
154 1,2,3-Trichlorobenzene	180	14.651	14.651	0.000	96	555591	5.00	4.71	
155 2-Methylnaphthalene	142	15.267	15.261	0.006	92	704869	5.00	4.84	
166 Pentane	43	2.916	2.916	0.000	97	356365	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_Penta_00018	Amount Added:	12.50	Units: uL	
MSV_LCS_VOC#1_00068	Amount Added:	12.50	Units: uL	
LCS_ETBR_00003	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00095	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00071	Amount Added:	12.50	Units: uL	
MSV_LCS_EE_00003	Amount Added:	12.50	Units: uL	
MSV_29_826ISS_00037	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 30-Aug-2022 10:58:22 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X20.D

Injection Date: 16-Aug-2022 20:22:30 Instrument ID: 16334 Operator ID: knk41612

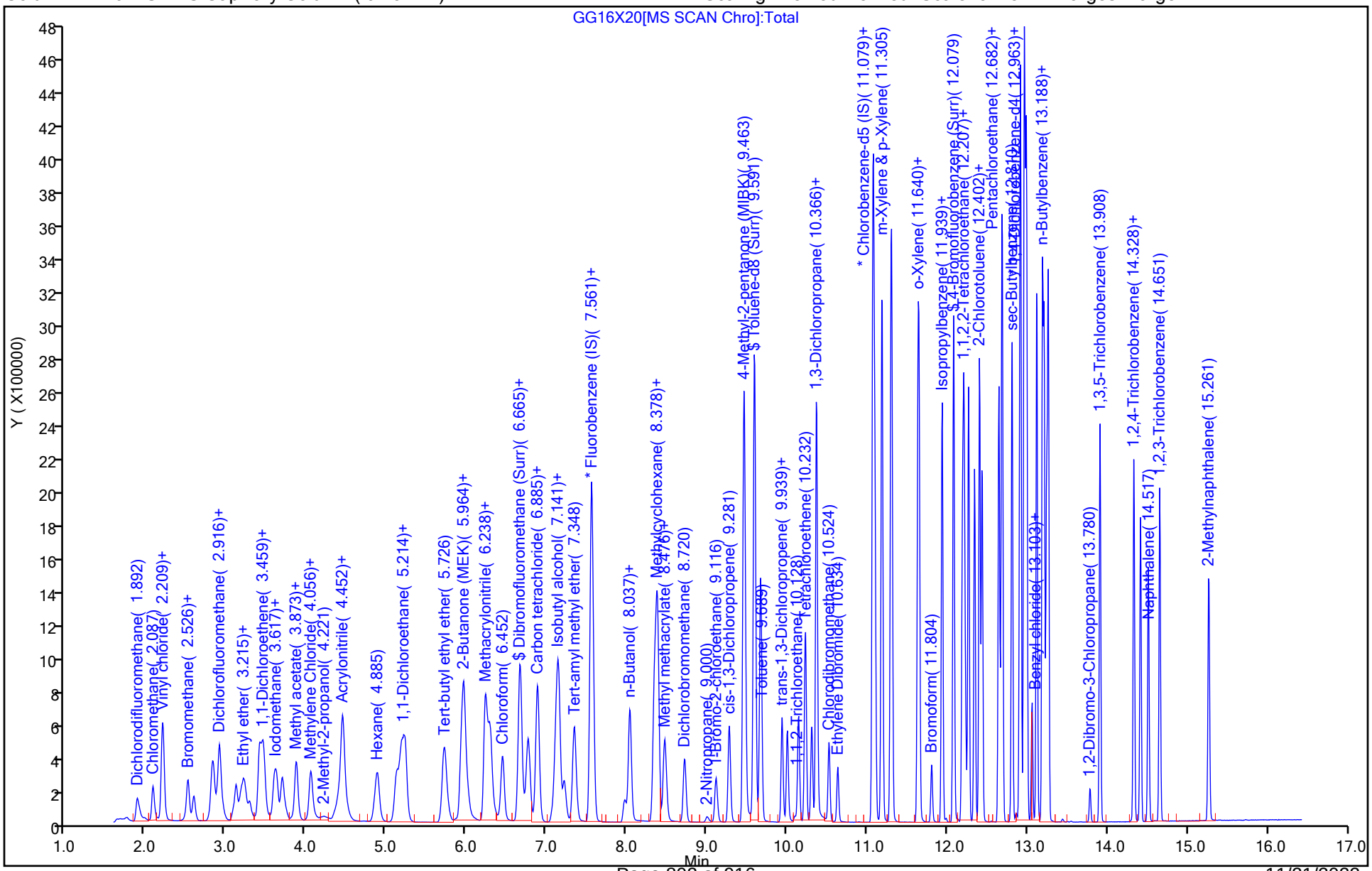
Lims ID: ICV Worklist Smp#: 21

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 20

Method: MSV_16334_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

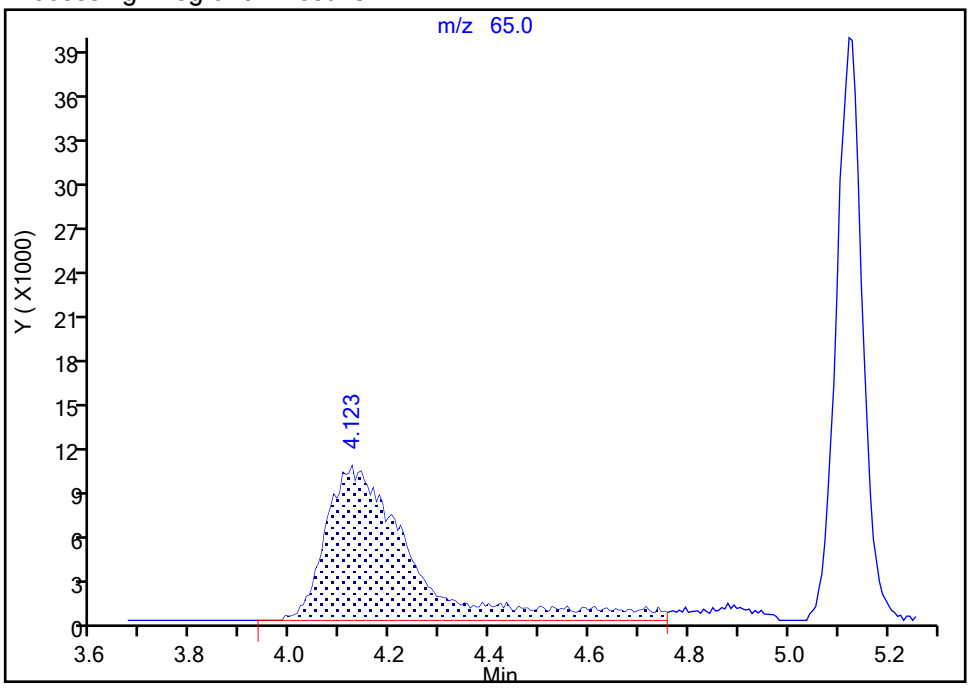
Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X20.D
Injection Date: 16-Aug-2022 20:22:30 Instrument ID: 16334
Lims ID: ICV
Client ID:
Operator ID: knk41612 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

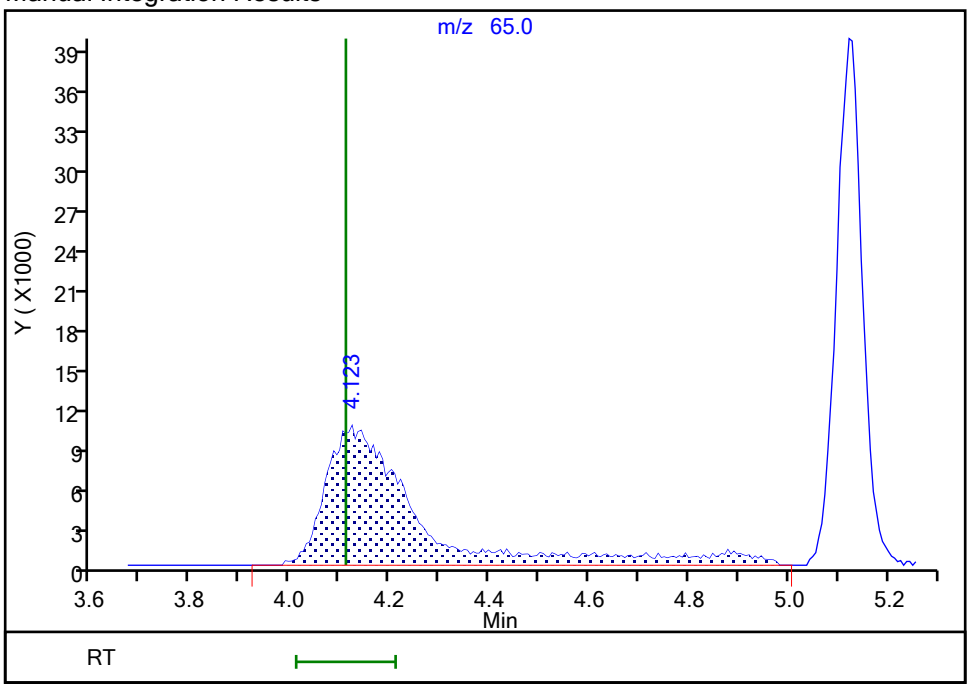
Processing Integration Results

RT: 4.12
Area: 124171
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.12
Area: 132771
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:46:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

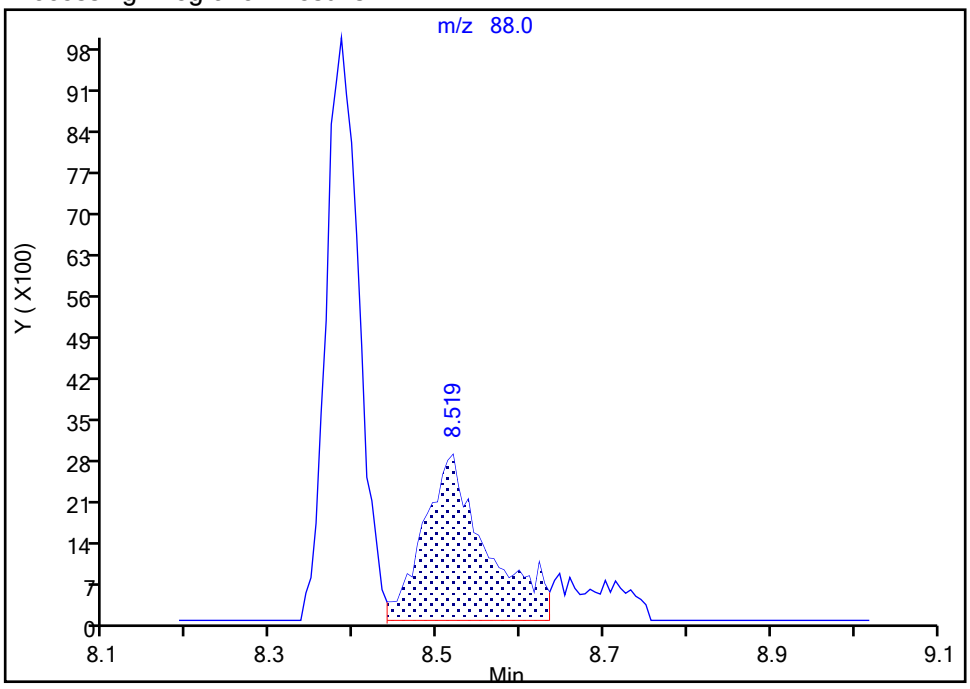
Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X20.D				
Injection Date:	16-Aug-2022 20:22:30	Instrument ID:	16334		
Lims ID:	ICV				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

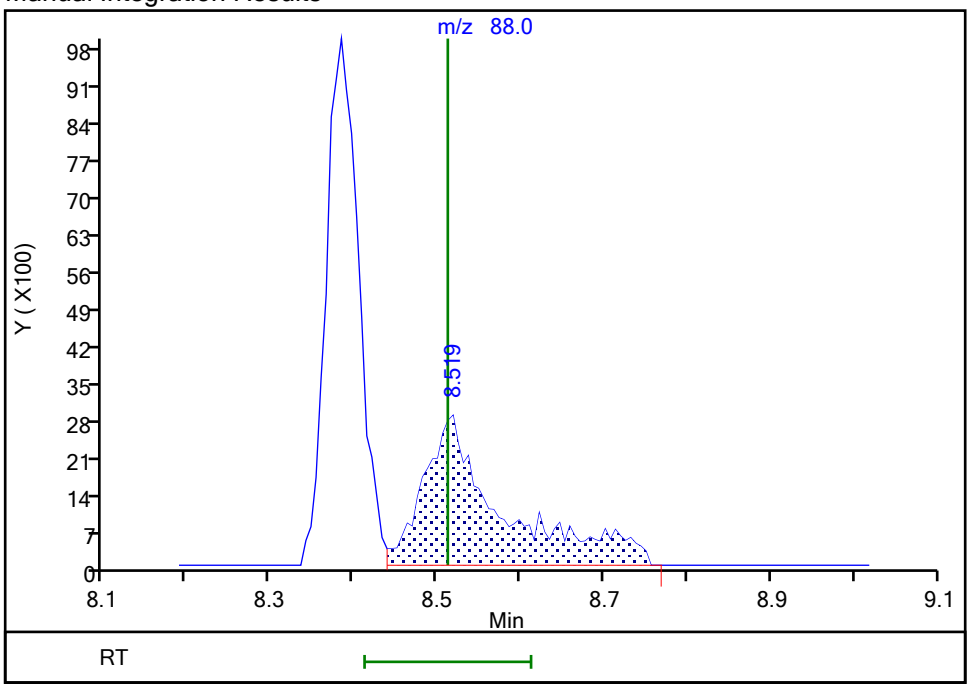
Processing Integration Results

RT: 8.52
Area: 14846
Amount: 119.7668
Amount Units: ug/l



Manual Integration Results

RT: 8.52
Area: 18487
Amount: 125.7160
Amount Units: ug/l



Reviewer: DVW2, 17-Aug-2022 11:46:59

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-103501-1

SDG No.:

Lab Sample ID: CCVIS 410-314355/3 Calibration Date: 11/06/2022 11:30

Instrument ID: 16334 Calib Start Date: 08/16/2022 17:26

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/16/2022 19:38

Lab File ID: GN06X02.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	0.2596	0.2944	0.1000	11.3	10.0	13.4	20.0
Chloromethane	Ave	0.2928	0.3113	0.1000	10.6	10.0	6.3	20.0
Vinyl chloride	Ave	0.2992	0.2841	0.1000	9.49	10.0	-5.1	20.0
1,3-Butadiene	Ave	0.2845	0.3518		12.4	10.0	23.7*	20.0
Bromomethane	Ave	0.2361	0.2102	0.1000	8.90	10.0	-11.0	20.0
Chloroethane	Ave	0.1784	0.1716	0.1000	9.62	10.0	-3.8	20.0
Dichlorofluoromethane	Ave	0.4362	0.4011		9.19	10.0	-8.1	20.0
Trichlorofluoromethane	Ave	0.4114	0.4163	0.1000	10.1	10.0	1.2	20.0
Pentane	None					10.0		20.0
Ethyl ether	Ave	0.1909	0.1928		10.1	10.0	1.0	20.0
Freon 123a	Ave	0.2906	0.2547		8.77	10.0	-12.3	20.0
Acrolein	Ave	2.311	2.089		452	500	-9.6	20.0
1,1-Dichloroethene	Ave	0.2154	0.1908	0.1000	8.86	10.0	-11.4	20.0
Acetone	Ave	2.535	2.589	0.1000	102	100	2.1	20.0
Freon 113	Ave	0.2100	0.1924	0.1000	9.16	10.0	-8.4	20.0
Methyl iodide	Ave	0.4078	0.3543		8.69	10.0	-13.1	20.0
Ethyl bromide	Ave	0.1978	0.1961		9.91	10.0	-0.8	20.0
Carbon disulfide	Ave	0.5255	0.6028	0.1000	11.5	10.0	14.7	20.0
Methyl acetate	Ave	7.861	7.877	0.1000	10.0	10.0	0.2	20.0
Allyl chloride	Ave	0.2907	0.2712		9.33	10.0	-6.7	20.0
Methylene Chloride	Ave	0.2387	0.2247	0.1000	9.42	10.0	-5.8	20.0
t-Butyl alcohol	Ave	0.8863	0.8892		201	200	0.3	20.0
Acrylonitrile	Ave	3.363	3.816		28.4	25.0	13.5	20.0
Methyl tert-butyl ether	Ave	0.6147	0.5686	0.1000	9.25	10.0	-7.5	20.0
trans-1,2-Dichloroethene	Ave	0.2516	0.2281	0.1000	9.07	10.0	-9.3	20.0
n-Hexane	Ave	0.2746	0.2616		9.53	10.0	-4.7	20.0
1,1-Dichloroethane	Ave	0.4087	0.3829	0.2000	9.37	10.0	-6.3	20.0
di-Isopropyl ether	Ave	0.6761	0.6428		9.51	10.0	-4.9	20.0
2-Chloro-1,3-butadiene	Ave	0.3253	0.2984		9.17	10.0	-8.3	20.0
Ethyl t-butyl ether	Ave	0.6956	0.6346		9.12	10.0	-8.8	20.0
2-Butanone (MEK)	Ave	5.008	5.104	0.1000	102	100	1.9	20.0
cis-1,2-Dichloroethene	Ave	0.2749	0.2553	0.1000	9.29	10.0	-7.1	20.0
2,2-Dichloropropane	Ave	0.3306	0.3245		9.81	10.0	-1.9	20.0
Propionitrile	Ave	1.187	1.384		233	200	16.7	20.0
Methacrylonitrile	Ave	5.343	5.417		101	100	1.4	20.0
Bromochloromethane	Ave	0.1317	0.1204		9.14	10.0	-8.6	20.0
Tetrahydrofuran	Ave	1.487	1.558		52.4	50.0	4.8	20.0
Chloroform	Ave	0.4380	0.4043	0.2000	9.23	10.0	-7.7	20.0
1,1,1-Trichloroethane	Ave	0.3821	0.3541	0.1000	9.27	10.0	-7.3	20.0
Cyclohexane	Ave	0.3475	0.3219	0.1000	9.26	10.0	-7.4	20.0
1,1-Dichloropropene	Ave	0.3396	0.3080		9.07	10.0	-9.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-103501-1

SDG No.:

Lab Sample ID: CCVIS 410-314355/3 Calibration Date: 11/06/2022 11:30

Instrument ID: 16334 Calib Start Date: 08/16/2022 17:26

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/16/2022 19:38

Lab File ID: GN06X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon tetrachloride	Ave	0.3289	0.3203	0.1000	9.74	10.0	-2.6	20.0
Isobutyl alcohol	Ave	0.0036	0.0039		549	500	9.8	20.0
Benzene	Ave	1.002	0.9349	0.5000	9.33	10.0	-6.7	20.0
1,2-Dichloroethane	Ave	0.2855	0.2450	0.1000	8.58	10.0	-14.2	20.0
t-Amyl methyl ether	Ave	0.6594	0.6083		9.22	10.0	-7.8	20.0
n-Heptane	Ave	0.2871	0.2773		9.66	10.0	-3.4	20.0
n-Butanol	Ave	0.2586	0.3219		1090	875	24.5*	20.0
Trichloroethene	Ave	0.2796	0.2524	0.2000	9.03	10.0	-9.7	20.0
Methylcyclohexane	Ave	0.4162	0.3864	0.1000	9.29	10.0	-7.1	20.0
1,2-Dichloropropane	Ave	0.2449	0.2372	0.1000	9.68	10.0	-3.2	20.0
Methyl methacrylate	Ave	10.41	10.09		9.70	10.0	-3.0	20.0
Dibromomethane	Ave	0.1344	0.1271		9.45	10.0	-5.5	20.0
1,4-Dioxane	Lin2		0.0439	0.0050	378	500	-24.4*	20.0
Bromodichloromethane	Ave	0.2943	0.2935	0.2000	9.97	10.0	-0.3	20.0
2-Nitropropane	Ave	2.340	2.553		54.5	50.0	9.1	20.0
1-Bromo-2-chloroethane	Ave	0.2652	0.2727		10.3	10.0	2.8	20.0
cis-1,3-Dichloropropene	Ave	0.3671	0.3726	0.2000	10.2	10.0	1.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	13.18	12.70	0.1000	96.4	100	-3.6	20.0
Toluene	Ave	0.8674	0.7971	0.4000	9.19	10.0	-8.1	20.0
trans-1,3-Dichloropropene	Ave	0.3864	0.4114	0.1000	10.6	10.0	6.5	20.0
Ethyl methacrylate	Ave	0.3328	0.3319		9.97	10.0	-0.3	20.0
1,1,2-Trichloroethane	Ave	0.2551	0.2459	0.1000	9.64	10.0	-3.6	20.0
Tetrachloroethene	Ave	0.4369	0.3873	0.2000	8.87	10.0	-11.3	20.0
1,3-Dichloropropane	Ave	0.4185	0.4063		9.71	10.0	-2.9	20.0
2-Hexanone	Ave	9.609	9.278	0.1000	96.6	100	-3.4	20.0
Dibromochloromethane	Ave	0.2790	0.3060		11.0	10.0	9.7	20.0
1,2-Dibromoethane (EDB)	Ave	0.2511	0.2343	0.1000	9.33	10.0	-6.7	20.0
1-Chlorohexane	Ave	0.4862	0.4379		9.01	10.0	-9.9	20.0
Chlorobenzene	Ave	1.050	0.9547	0.5000	9.09	10.0	-9.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3370	0.3354		9.95	10.0	-0.5	20.0
Ethylbenzene	Ave	1.682	1.568	0.1000	9.32	10.0	-6.8	20.0
m&p-Xylene	Ave	0.6759	0.6290	0.1000	18.6	20.0	-6.9	20.0
o-Xylene	Ave	0.6696	0.6138	0.3000	9.17	10.0	-8.3	20.0
Styrene	Ave	1.134	1.040	0.3000	9.17	10.0	-8.3	20.0
Bromoform	Ave	0.1570	0.1936	0.1000	12.3	10.0	23.3*	20.0
Isopropylbenzene	Ave	1.712	1.579	0.1000	9.23	10.0	-7.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5342	0.5281	0.3000	9.89	10.0	-1.1	20.0
Bromobenzene	Ave	0.7697	0.6779		8.81	10.0	-11.9	20.0
trans-1,4-Dichloro-2-butene	Ave	4.847	4.013		82.8	100	-17.2	20.0
1,2,3-Trichloropropane	Ave	0.1534	0.1453		9.47	10.0	-5.3	20.0
N-Propylbenzene	Ave	3.363	3.117		9.27	10.0	-7.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-103501-1

SDG No.:

Lab Sample ID: CCVIS 410-314355/3 Calibration Date: 11/06/2022 11:30

Instrument ID: 16334 Calib Start Date: 08/16/2022 17:26

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/16/2022 19:38

Lab File ID: GN06X02.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
2-Chlorotoluene	Ave	0.7395	0.6587		8.91	10.0	-10.9	20.0
1,3,5-Trimethylbenzene	Ave	2.519	2.304		9.15	10.0	-8.5	20.0
4-Chlorotoluene	Ave	0.7729	0.6934		8.97	10.0	-10.3	20.0
tert-Butylbenzene	Ave	0.5805	0.5093		8.77	10.0	-12.3	20.0
Pentachloroethane	Ave	0.4154	0.4562		11.0	10.0	9.8	20.0
1,2,4-Trimethylbenzene	Ave	2.595	2.393		9.22	10.0	-7.8	20.0
sec-Butylbenzene	Ave	3.159	2.877		9.11	10.0	-8.9	20.0
1,3-Dichlorobenzene	Ave	1.590	1.420	0.6000	8.94	10.0	-10.6	20.0
p-Isopropyltoluene	Ave	2.881	2.643		9.18	10.0	-8.2	20.0
1,4-Dichlorobenzene	Ave	1.664	1.440	0.5000	8.65	10.0	-13.5	20.0
1,2,3-Trimethylbenzene	Ave	1.191	1.084		9.10	10.0	-9.0	20.0
Benzyl chloride	Lin1		0.2316		11.0	10.0	10.3	20.0
n-Butylbenzene	Ave	1.407	1.305		9.27	10.0	-7.3	20.0
1,2-Dichlorobenzene	Ave	1.492	1.318	0.4000	8.84	10.0	-11.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0787	0.0810	0.0500	10.3	10.0	2.9	20.0
1,3,5-Trichlorobenzene	Ave	1.282	1.152		8.99	10.0	-10.1	20.0
1,2,4-Trichlorobenzene	Ave	1.202	1.042	0.2000	8.67	10.0	-13.3	20.0
Hexachlorobutadiene	Ave	0.5695	0.5370		9.43	10.0	-5.7	20.0
Naphthalene	Ave	2.034	1.742		8.56	10.0	-14.4	20.0
1,2,3-Trichlorobenzene	Ave	1.062	0.9056		8.53	10.0	-14.7	20.0
Dibromofluoromethane (Surr)	Ave	0.2483	0.2497		10.1	10.0	0.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0527	0.0537		10.2	10.0	1.8	20.0
Toluene-d8 (Surr)	Ave	1.281	1.311		10.2	10.0	2.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4767	0.4734		9.93	10.0	-0.7	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X02.D
Lims ID: CCVIS VSTD10
Client ID:
Sample Type: CCVIS
Inject. Date: 06-Nov-2022 11:30:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070453-003
Misc. Info.: CCVIS VSTD10
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Nov-2022 15:38:17 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1613

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.898	1.898	0.000	99	552171	10.0	11.3	
5 Chloromethane	50	2.087	2.087	0.000	98	583975	10.0	10.6	
6 Vinyl chloride	62	2.203	2.203	0.000	98	532930	10.0	9.49	
7 Butadiene	39	2.215	2.215	0.000	89	659964	10.0	12.4	
9 Bromomethane	94	2.526	2.526	0.000	91	394204	10.0	8.90	
10 Chloroethane	64	2.605	2.605	0.000	100	321896	10.0	9.62	
11 Dichlorofluoromethane	67	2.837	2.837	0.000	97	752283	10.0	9.19	
12 Trichlorofluoromethane	101	2.898	2.898	0.000	98	780890	10.0	10.1	
13 Ethyl ether	59	3.129	3.129	0.000	91	361844	10.0	10.1	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.233	3.233	0.000	93	477808	10.0	8.77	
17 Acrolein	56	3.300	3.300	0.000	100	2413851	500.0	451.9	
18 1,1-Dichloroethene	96	3.422	3.422	0.000	97	357935	10.0	8.86	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.471	3.471	0.000	90	360903	10.0	9.16	
20 Acetone	43	3.471	3.471	0.000	99	598275	100.0	102.1	
21 Iodomethane	142	3.611	3.611	0.000	99	664597	10.0	8.69	
22 Ethyl bromide	108	3.635	3.635	0.000	98	367835	10.0	9.91	
24 Isopropyl alcohol	45	3.702	3.702	0.000	99	199924	200.0	192.9	
23 Carbon disulfide	76	3.708	3.708	0.000	99	1130631	10.0	11.5	
25 Methyl acetate	43	3.861	3.861	0.000	96	182057	10.0	10.0	
27 3-Chloro-1-propene	41	3.885	3.885	0.000	91	508753	10.0	9.33	
29 Methylene Chloride	84	4.062	4.062	0.000	88	421555	10.0	9.42	
* 30 t-Butyl alcohol-d10 (IS)	65	4.135	4.135	0.000	86	115561	50.0	50.0	
31 2-Methyl-2-propanol	59	4.245	4.245	0.000	99	411046	200.0	200.7	
32 Acrylonitrile	53	4.403	4.403	0.000	98	220519	25.0	28.4	
33 Methyl tert-butyl ether	73	4.458	4.458	0.000	92	1066624	10.0	9.25	
34 trans-1,2-Dichloroethene	96	4.464	4.464	0.000	98	427947	10.0	9.07	
35 Hexane	57	4.891	4.891	0.000	90	490654	10.0	9.53	
37 1,1-Dichloroethane	63	5.129	5.129	0.000	96	718287	10.0	9.37	
38 Isopropyl ether	45	5.196	5.196	0.000	93	1205803	10.0	9.51	
39 2-Chloro-1,3-butadiene	53	5.245	5.245	0.000	89	559655	10.0	9.17	
40 Tert-butyl ethyl ether	59	5.738	5.738	0.000	97	1190418	10.0	9.12	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.946	5.946	0.000	99	1179594	100.0	101.9	
42 cis-1,2-Dichloroethene	96	5.976	5.976	0.000	80	478884	10.0	9.29	
43 2,2-Dichloropropane	77	5.988	5.988	0.000	87	608598	10.0	9.81	
45 Propionitrile	54	6.037	6.037	0.000	99	639902	200.0	233.3	
48 Methacrylonitrile	67	6.244	6.244	0.000	89	1252056	100.0	101.4	
49 Chlorobromomethane	128	6.299	6.299	0.000	86	225875	10.0	9.14	
50 Tetrahydrofuran	71	6.311	6.311	0.000	86	179987	50.0	52.4	
51 Chloroform	83	6.458	6.458	0.000	92	758463	10.0	9.23	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.671	0.000	94	468335	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.677	6.677	0.000	97	664185	10.0	9.27	
54 Cyclohexane	56	6.775	6.775	0.000	88	603758	10.0	9.26	
56 Carbon tetrachloride	117	6.891	6.891	0.000	96	600885	10.0	9.74	
57 1,1-Dichloropropene	75	6.891	6.891	0.000	98	577687	10.0	9.07	
58 Isobutyl alcohol	41	7.086	7.086	0.000	93	369289	500.0	548.9	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.122	7.122	0.000	91	100680	10.0	10.2	
60 Benzene	78	7.159	7.159	0.000	96	1753603	10.0	9.33	
61 1,2-Dichloroethane	62	7.226	7.226	0.000	97	459593	10.0	8.58	
63 Tert-amyl methyl ether	73	7.354	7.354	0.000	99	1140982	10.0	9.22	
* 64 Fluorobenzene (IS)	96	7.567	7.567	0.000	99	1875781	10.0	10.0	
65 n-Heptane	43	7.580	7.580	0.000	89	520212	10.0	9.66	
67 n-Butanol	56	7.976	7.976	0.000	87	651071	875.0	1089.3	
68 Trichloroethene	95	8.043	8.043	0.000	96	473525	10.0	9.03	
69 Methylcyclohexane	83	8.354	8.354	0.000	91	724866	10.0	9.29	
70 1,2-Dichloropropane	63	8.378	8.378	0.000	92	444870	10.0	9.68	
71 2-ethoxy-2-methyl butane	87	8.390	8.390	0.000	94	670235	10.0	9.12	
72 Methyl methacrylate	69	8.470	8.470	0.000	89	233190	10.0	9.70	
73 Dibromomethane	93	8.488	8.488	0.000	93	238388	10.0	9.45	
74 1,4-Dioxane	88	8.506	8.506	0.000	91	50742	500.0	378.2	
76 Dichlorobromomethane	83	8.726	8.726	0.000	99	550484	10.0	9.97	
77 2-Nitropropane	41	9.006	9.006	0.000	99	294984	50.0	54.5	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	99	511607	10.0	10.3	
81 cis-1,3-Dichloropropene	75	9.280	9.280	0.000	97	698927	10.0	10.2	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	95	2936023	100.0	96.4	
$ 83 Toluene-d8 (Surr)	98	9.597	9.597	0.000	93	1886851	10.0	10.2	
84 Toluene	92	9.671	9.671	0.000	98	1147087	10.0	9.19	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	91	592039	10.0	10.6	
104 Ethyl methacrylate	69	10.000	10.000	0.000	88	477619	10.0	9.97	
106 1,1,2-Trichloroethane	97	10.140	10.140	0.000	90	353912	10.0	9.64	
107 Tetrachloroethene	166	10.231	10.231	0.000	97	557302	10.0	8.87	
108 1,3-Dichloropropane	76	10.305	10.305	0.000	87	584624	10.0	9.71	
109 2-Hexanone	43	10.366	10.366	0.000	95	2144320	100.0	96.6	
111 Chlorodibromomethane	129	10.524	10.524	0.000	89	440409	10.0	11.0	
112 Ethylene Dibromide	107	10.634	10.634	0.000	99	337106	10.0	9.33	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	85	1439011	10.0	10.0	
114 1-Chlorohexane	91	11.079	11.079	0.000	94	630094	10.0	9.01	
115 Chlorobenzene	112	11.097	11.097	0.000	96	1373770	10.0	9.09	
117 1,1,1,2-Tetrachloroethane	131	11.176	11.176	0.000	95	482574	10.0	9.95	
116 Ethylbenzene	91	11.182	11.182	0.000	98	2256117	10.0	9.32	
119 m-Xylene & p-Xylene	106	11.298	11.298	0.000	89	1810158	20.0	18.6	
120 o-Xylene	106	11.628	11.628	0.000	96	883303	10.0	9.17	
121 Styrene	104	11.640	11.640	0.000	94	1496061	10.0	9.17	
122 Bromoform	173	11.798	11.798	0.000	98	278590	10.0	12.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
123 Isopropylbenzene	105	11.926	11.926	0.000	95	2272903	10.0	9.23	
$ 126 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	95	681245	10.0	9.93	
127 1,1,2,2-Tetrachloroethane	83	12.176	12.176	0.000	93	460206	10.0	9.89	
128 Bromobenzene	156	12.182	12.182	0.000	96	590748	10.0	8.81	
129 trans-1,4-Dichloro-2-butene	53	12.201	12.201	0.000	90	927450	100.0	82.8	
130 1,2,3-Trichloropropane	110	12.219	12.219	0.000	81	126605	10.0	9.47	
131 N-Propylbenzene	91	12.255	12.255	0.000	98	2716758	10.0	9.27	
132 2-Chlorotoluene	126	12.329	12.329	0.000	97	574061	10.0	8.91	
133 1,3,5-Trimethylbenzene	105	12.390	12.390	0.000	95	2007724	10.0	9.15	
134 4-Chlorotoluene	126	12.426	12.426	0.000	96	604267	10.0	8.97	
135 tert-Butylbenzene	134	12.633	12.633	0.000	92	443818	10.0	8.77	
136 Pentachloroethane	167	12.664	12.664	0.000	94	397528	10.0	11.0	
137 1,2,4-Trimethylbenzene	105	12.676	12.676	0.000	97	2085094	10.0	9.22	
138 sec-Butylbenzene	105	12.792	12.792	0.000	94	2507596	10.0	9.11	
139 1,3-Dichlorobenzene	146	12.889	12.889	0.000	99	1237909	10.0	8.94	
140 4-Isopropyltoluene	119	12.902	12.902	0.000	97	2303563	10.0	9.18	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	94	871469	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.963	12.963	0.000	95	1255180	10.0	8.65	
143 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	98	944985	10.0	9.10	
144 Benzyl chloride	126	13.042	13.042	0.000	98	201791	10.0	11.0	
145 p-Diethylbenzene	119	13.103	13.103	0.000	93	1402994	10.0	9.39	
146 n-Butylbenzene	92	13.188	13.188	0.000	97	1136952	10.0	9.27	
147 1,2-Dichlorobenzene	146	13.225	13.225	0.000	99	1148603	10.0	8.84	
149 1,2-Dibromo-3-Chloropropane	155	13.761	13.761	0.000	90	70567	10.0	10.3	
150 1,3,5-Trichlorobenzene	180	13.883	13.883	0.000	98	1004347	10.0	8.99	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	908430	10.0	8.67	
152 Hexachlorobutadiene	225	14.389	14.389	0.000	96	468012	10.0	9.43	
153 Naphthalene	128	14.487	14.487	0.000	97	1517787	10.0	8.56	
154 1,2,3-Trichlorobenzene	180	14.627	14.627	0.000	96	789197	10.0	8.53	
155 2-Methylnaphthalene	142	15.230	15.230	0.000	92	831899	10.0	7.26	
166 Pentane	43	2.928	2.928	0.000	97	478620	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MSV_LL_#1_826_00058	Amount Added: 20.00	Units: uL	
MSV_LL_GAS826_00120	Amount Added: 20.00	Units: uL	
MSV_LL_#2_826_00062	Amount Added: 20.00	Units: uL	
MSV_29_826ISS_00039	Amount Added: 1.00	Units: uL	Run Reagent

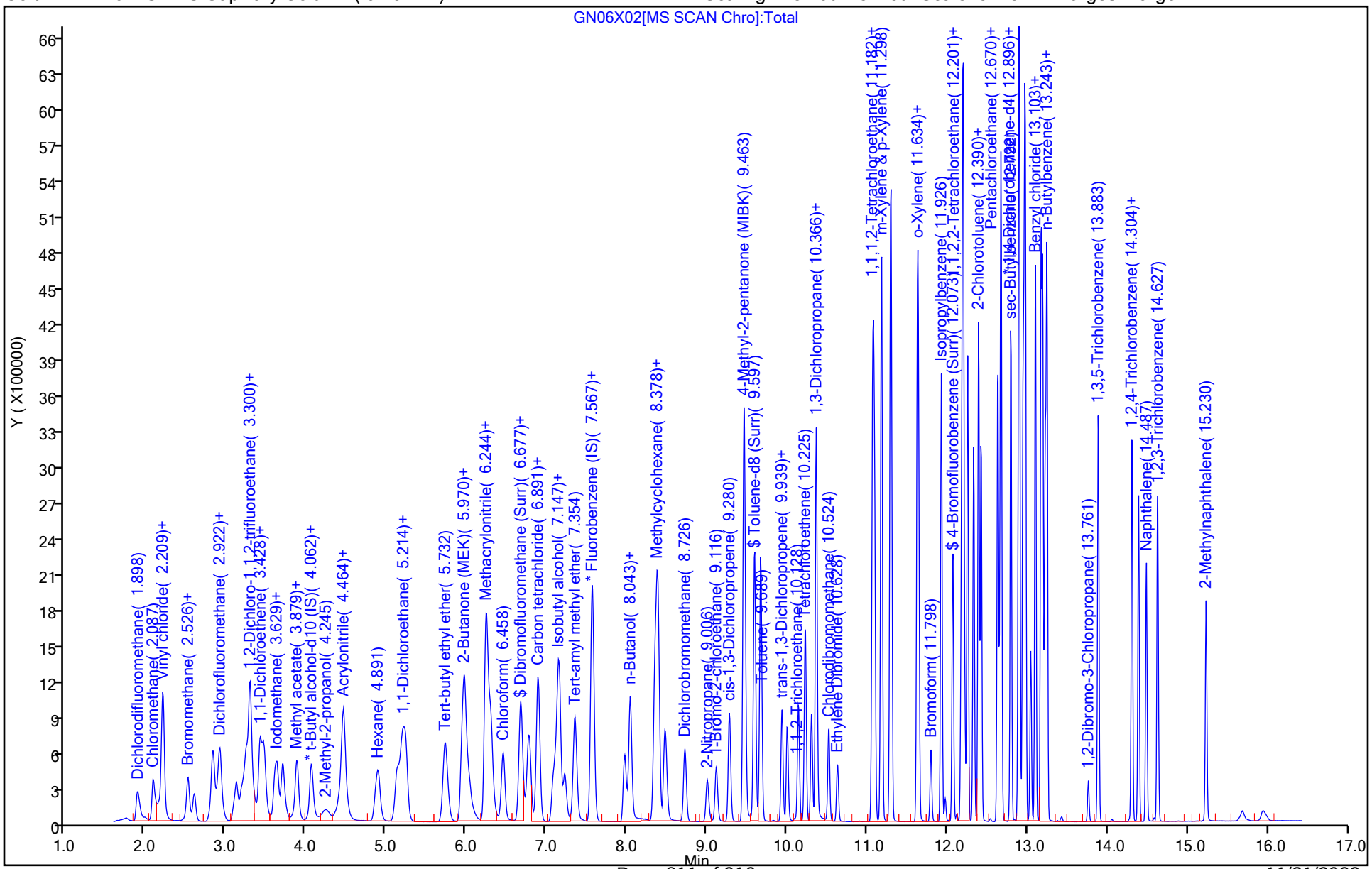
Report Date: 06-Nov-2022 15:38:18 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X02.D

Injection Date:	06-Nov-2022 11:30:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	CCVIS VSTD10			Worklist Smp#:	3
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-103501-1

SDG No.:

Lab Sample ID: ICV 410-305355/19 Calibration Date: 10/11/2022 20:41

Instrument ID: 19930 Calib Start Date: 10/11/2022 18:14

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 10/11/2022 20:20

Lab File ID: IC11X18.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	0.4148	0.3030	0.1000	3.65	5.00	-27.0	30.0
Chloromethane	Ave	0.4116	0.3261	0.1000	3.96	5.00	-20.8	30.0
Vinyl chloride	Ave	0.4033	0.3350	0.1000	4.15	5.00	-16.9	30.0
1,3-Butadiene	Ave	0.3554	0.2854		4.02	5.00	-19.7	30.0
Bromomethane	Ave	0.2842	0.2447	0.1000	4.31	5.00	-13.9	30.0
Chloroethane	Ave	0.2405	0.2052	0.1000	4.27	5.00	-14.7	30.0
Dichlorofluoromethane	Ave	0.5628	0.5103		4.53	5.00	-9.3	30.0
Trichlorofluoromethane	Ave	0.5649	0.4435	0.1000	3.93	5.00	-21.5	30.0
Ethyl ether	Ave	0.2020	0.1680		4.15	4.98	-16.8	30.0
Freon 123a	Ave	0.3441	0.3117		4.53	5.00	-9.4	30.0
Acrolein	Ave	2.864	2.576		33.7	37.5	-10.1	30.0
1,1-Dichloroethene	Ave	0.2592	0.2516	0.1000	4.85	5.00	-2.9	30.0
Acetone	Ave	3.271	2.741	0.1000	52.4	62.5	-16.2	30.0
Freon 113	Ave	0.2525	0.2596	0.1000	5.14	5.00	2.8	30.0
Methyl iodide	Ave	0.4737	0.4758		5.02	5.00	0.4	30.0
Ethyl bromide	Lin		0.1628		3.43	4.89	-29.9	30.0
Carbon disulfide	Ave	0.6449	0.6262	0.1000	4.86	5.00	-2.9	30.0
Methyl acetate	Ave	9.297	10.13	0.1000	5.45	5.00	9.0	30.0
Allyl chloride	Ave	0.3717	0.3710		4.99	5.00	-0.2	30.0
Methylene Chloride	Ave	0.2730	0.2678	0.1000	4.90	5.00	-1.9	30.0
t-Butyl alcohol	Ave	1.064	0.9215		43.3	50.0	-13.4	30.0
Acrylonitrile	Ave	4.160	4.394		26.4	25.0	5.6	30.0
Methyl tertiary butyl ether	Ave	0.6533	0.6590	0.1000	5.04	5.00	0.9	30.0
trans-1,2-Dichloroethene	Ave	0.2871	0.2714	0.1000	4.73	5.00	-5.5	30.0
n-Hexane	Ave	0.3704	0.3413		4.61	5.00	-7.9	30.0
1,1-Dichloroethane	Ave	0.5124	0.4895	0.2000	4.78	5.00	-4.5	30.0
di-Isopropyl ether	Ave	0.7861	0.7703		4.90	5.00	-2.0	30.0
2-Chloro-1,3-butadiene	Ave	0.4060	0.4145		5.10	5.00	2.1	30.0
Ethyl t-butyl ether	Ave	0.8028	0.7934		4.94	5.00	-1.2	30.0
2-Butanone	Ave	5.926	5.722	0.1000	60.4	62.5	-3.4	30.0
cis-1,2-Dichloroethene	Ave	0.3171	0.3194	0.1000	5.04	5.00	0.7	30.0
2,2-Dichloropropane	Ave	0.4602	0.4434		4.82	5.00	-3.7	30.0
Propionitrile	Ave	1.563	1.395		33.5	37.5	-10.7	30.0
Methacrylonitrile	Ave	6.377	6.375		37.5	37.5	-0.0	30.0
Bromochloromethane	Ave	0.1404	0.1393		4.96	5.00	-0.8	30.0
Tetrahydrofuran	Ave	1.744	1.829		26.2	25.0	4.9	30.0
Chloroform	Ave	0.5145	0.5059	0.2000	4.92	5.00	-1.7	30.0
1,1,1-Trichloroethane	Ave	0.4884	0.4721	0.1000	4.83	5.00	-3.3	30.0
Cyclohexane	Ave	0.4520	0.4395	0.1000	4.86	5.00	-2.8	30.0
1,1-Dichloropropene	Ave	0.4090	0.3980		4.87	5.00	-2.7	30.0
Carbon tetrachloride	Ave	0.4252	0.4144	0.1000	4.87	5.00	-2.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-103501-1

SDG No.:

Lab Sample ID: ICV 410-305355/19 Calibration Date: 10/11/2022 20:41

Instrument ID: 19930 Calib Start Date: 10/11/2022 18:14

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 10/11/2022 20:20

Lab File ID: IC11X18.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
Isobutyl alcohol	Ave	0.3664	0.3113		106	125	-15.1	30.0
Benzene	Ave	1.185	1.154	0.5000	4.87	5.00	-2.6	30.0
1,2-Dichloroethane	Ave	0.3211	0.3158	0.1000	4.92	5.00	-1.6	30.0
t-Amyl methyl ether	Ave	0.7400	0.7569		5.11	5.00	2.3	30.0
n-Heptane	Ave	0.3861	0.3158		4.09	5.00	-18.2	30.0
n-Butanol	Ave	0.3104	0.2606		210	250	-16.0	30.0
Trichloroethene	Ave	0.3252	0.3095	0.2000	4.76	5.00	-4.8	30.0
Methylcyclohexane	Ave	0.5258	0.4915	0.1000	4.67	5.00	-6.5	30.0
1,2-Dichloropropane	Ave	0.2868	0.2812	0.1000	4.90	5.00	-2.0	30.0
Methyl methacrylate	Ave	11.57	12.37		5.35	5.00	6.9	30.0
1,4-Dioxane	Ave	0.1005	0.0525	0.0050	65.3	125	-47.7*	30.0
Dibromomethane	Ave	0.1434	0.1417		4.94	5.00	-1.2	30.0
Bromodichloromethane	Ave	0.3505	0.3556	0.2000	5.07	5.00	1.5	30.0
2-Nitropropane	Ave	3.518	3.313		4.71	5.00	-5.8	30.0
1-Bromo-2-chloroethane	Ave	0.2871	0.2759		4.81	5.00	-3.9	30.0
cis-1,3-Dichloropropene	Ave	0.4368	0.4272	0.2000	4.89	5.00	-2.2	30.0
4-Methyl-2-pentanone	Ave	15.63	15.65	0.1000	62.6	62.5	0.2	30.0
Toluene	Ave	1.039	1.007	0.4000	4.85	5.00	-3.1	30.0
trans-1,3-Dichloropropene	Ave	0.4667	0.4832	0.1000	5.18	5.00	3.5	30.0
Ethyl methacrylate	Ave	0.3645	0.3808		5.22	5.00	4.5	30.0
1,1,2-Trichloroethane	Ave	0.2741	0.2706	0.1000	4.94	5.00	-1.3	30.0
Tetrachloroethene	Ave	0.5053	0.4917	0.2000	4.87	5.00	-2.7	30.0
1,3-Dichloropropane	Ave	0.4593	0.4599		5.01	5.00	0.1	30.0
2-Hexanone	Ave	10.94	11.05	0.1000	63.1	62.5	1.0	30.0
Dibromochloromethane	Ave	0.3223	0.3267		5.07	5.00	1.3	30.0
1,2-Dibromoethane	Ave	0.2652	0.2619	0.1000	4.94	5.00	-1.3	30.0
1-Chlorohexane	Ave	0.5954	0.5478		4.60	5.00	-8.0	30.0
Chlorobenzene	Ave	1.158	1.121	0.5000	4.84	5.00	-3.2	30.0
1,1,1,2-Tetrachloroethane	Ave	0.4016	0.4000		4.98	5.00	-0.4	30.0
Ethylbenzene	Ave	1.990	1.947	0.1000	4.89	5.00	-2.1	30.0
m&p-Xylene	Ave	0.7915	0.7797	0.1000	9.85	10.0	-1.5	30.0
o-Xylene	Ave	0.7731	0.7499	0.3000	4.85	5.00	-3.0	30.0
Styrene	Ave	1.220	1.233	0.3000	5.06	5.00	1.1	30.0
Bromoform	Ave	0.1770	0.1792	0.1000	5.06	5.00	1.2	30.0
Isopropylbenzene	Ave	2.020	2.011	0.1000	4.98	5.00	-0.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5806	0.5829	0.3000	5.02	5.00	0.4	30.0
Bromobenzene	Ave	0.8231	0.8250		5.01	5.00	0.2	30.0
trans-1,4-Dichloro-2-butene	Ave	5.831	5.768		24.7	25.0	-1.1	30.0
1,2,3-Trichloropropane	Ave	0.1627	0.1621		4.98	5.00	-0.4	30.0
N-Propylbenzene	Ave	3.935	3.875		4.92	5.00	-1.5	30.0
2-Chlorotoluene	Ave	0.8280	0.8076		4.88	5.00	-2.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-103501-1

SDG No.:

Lab Sample ID: ICV 410-305355/19 Calibration Date: 10/11/2022 20:41

Instrument ID: 19930 Calib Start Date: 10/11/2022 18:14

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 10/11/2022 20:20

Lab File ID: IC11X18.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
1,3,5-Trimethylbenzene	Ave	2.908	2.818		4.84	5.00	-3.1	30.0
4-Chlorotoluene	Ave	0.8431	0.8271		4.91	5.00	-1.9	30.0
tert-Butylbenzene	Ave	0.6497	0.6226		4.79	5.00	-4.2	30.0
Pentachloroethane	Ave	0.5232	0.5176		4.95	5.00	-1.1	30.0
1,2,4-Trimethylbenzene	Ave	2.926	2.855		4.88	5.00	-2.4	30.0
sec-Butylbenzene	Ave	3.673	3.604		4.91	5.00	-1.9	30.0
1,3-Dichlorobenzene	Ave	1.608	1.561	0.6000	4.85	5.00	-2.9	30.0
p-Isopropyltoluene	Ave	3.205	3.122		4.87	5.00	-2.6	30.0
1,4-Dichlorobenzene	Ave	1.679	1.615	0.5000	4.81	5.00	-3.8	30.0
1,2,3-Trimethylbenzene	Ave	1.290	1.253		4.86	5.00	-2.9	30.0
Benzyl chloride	Ave	0.2308	0.2245		4.87	5.00	-2.7	30.0
n-Butylbenzene	Ave	1.478	1.400		4.73	5.00	-5.3	30.0
1,2-Dichlorobenzene	Ave	1.498	1.444	0.4000	4.82	5.00	-3.6	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0809	0.0804	0.0500	4.97	5.00	-0.7	30.0
1,3,5-Trichlorobenzene	Ave	1.150	1.079		4.69	5.00	-6.2	30.0
1,2,4-Trichlorobenzene	Ave	0.9903	0.9264	0.2000	4.68	5.00	-6.5	30.0
Hexachlorobutadiene	Ave	0.4401	0.3729		4.24	5.00	-15.3	30.0
Naphthalene	Ave	1.834	1.724		4.70	5.00	-6.0	30.0
1,2,3-Trichlorobenzene	Ave	0.8536	0.7841		4.59	5.00	-8.1	30.0
2-ethoxy-2-methyl butane	None					5.00		30.0
2-Methylnaphthalene	None					5.00		30.0
Isopropyl alcohol	None					37.5		30.0
p-Diethylbenzene	None					5.00		30.0
Pentane	None					5.00		30.0
Dibromofluoromethane (Surr)	Ave	0.2523	0.2543		10.1	10.0	0.8	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0501	0.0499		9.96	10.0	-0.4	30.0
Toluene-d8 (Surr)	Ave	1.322	1.322		10.0	10.0	-0.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4894	0.4889		9.99	10.0	-0.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X18.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 11-Oct-2022 20:41:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0068441-019
Misc. Info.: ICV LG
Operator ID: knk41612 Instrument ID: 19930
Sublist:

Method: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 13-Oct-2022 11:34:44 Calib Date: 11-Oct-2022 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1621

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Dichlorodifluoromethane	85	1.916	1.916	0.000	99	358030	5.00	3.65	
4	Chloromethane	50	2.117	2.111	0.006	99	385379	5.00	3.96	
5	Vinyl chloride	62	2.227	2.227	0.000	98	395889	5.00	4.15	
6	Butadiene	39	2.239	2.233	0.006	92	337227	5.00	4.02	
7	Bromomethane	94	2.562	2.556	0.006	91	289206	5.00	4.31	
8	Chloroethane	64	2.642	2.641	0.001	100	242482	5.00	4.27	
9	Dichlorofluoromethane	67	2.873	2.873	0.000	97	602996	5.00	4.53	
10	Trichlorofluoromethane	101	2.940	2.940	0.000	97	524107	5.00	3.93	
11	Ethyl ether	59	3.184	3.178	0.006	90	197971	4.98	4.15	
13	1,2-Dichloro-1,1,2-trifluoroetha	67	3.269	3.269	0.000	90	368335	5.00	4.53	
14	Acrolein	56	3.355	3.343	0.013	97	243201	37.5	33.7	
15	1,1-Dichloroethene	96	3.489	3.489	0.000	98	297324	5.00	4.85	
16	Acetone	43	3.513	3.513	0.000	100	431360	62.5	52.4	
17	1,1,2-Trichloro-1,2,2-trifluoroe	101	3.532	3.531	0.001	91	306832	5.00	5.14	
18	Iodomethane	142	3.684	3.678	0.006	99	562312	5.00	5.02	
19	Ethyl bromide	108	3.708	3.702	0.006	98	187997	4.89	3.43	
20	Carbon disulfide	76	3.788	3.781	0.007	99	740003	5.00	4.86	
23	Methyl acetate	43	3.940	3.928	0.012	96	127547	5.00	5.45	
24	3-Chloro-1-propene	41	3.958	3.958	0.000	89	438463	5.00	4.99	
25	Methylene Chloride	84	4.141	4.141	0.000	89	316511	5.00	4.90	
* 26	t-Butyl alcohol-d10 (IS)	65	4.135	4.141	-0.006	35	125892	50.0	50.0	M
27	2-Methyl-2-propanol	59	4.275	4.275	0.000	99	116011	50.0	43.3	
28	Acrylonitrile	53	4.477	4.476	0.000	98	276559	25.0	26.4	
29	Methyl tert-butyl ether	73	4.550	4.550	0.000	94	778787	5.00	5.04	
30	trans-1,2-Dichloroethene	96	4.568	4.556	0.012	99	320747	5.00	4.73	
31	Hexane	57	4.989	4.982	0.007	91	403298	5.00	4.61	
32	1,1-Dichloroethane	63	5.220	5.214	0.006	96	578528	5.00	4.78	
35	Isopropyl ether	45	5.275	5.275	0.000	93	910306	5.00	4.90	
36	2-Chloro-1,3-butadiene	53	5.330	5.324	0.006	91	489809	5.00	5.10	
37	Tert-butyl ethyl ether	59	5.812	5.805	0.007	97	937582	5.00	4.94	
38	2-Butanone (MEK)	43	6.007	6.001	0.006	99	900466	62.5	60.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	6.049	6.043	0.006	82	377453	5.00	5.04	
40 2,2-Dichloropropane	77	6.068	6.055	0.013	89	524000	5.00	4.82	
43 Propionitrile	54	6.098	6.086	0.012	99	131711	37.5	33.5	
45 Methacrylonitrile	67	6.312	6.305	0.007	90	601879	37.5	37.5	
46 Chlorobromomethane	128	6.379	6.372	0.007	89	164609	5.00	4.96	
47 Tetrahydrofuran	71	6.385	6.391	-0.006	75	115114	25.0	26.2	
48 Chloroform	83	6.531	6.525	0.006	93	597833	5.00	4.92	
$ 49 Dibromofluoromethane (Surr)	113	6.744	6.738	0.006	94	600957	10.0	10.1	
50 1,1,1-Trichloroethane	97	6.757	6.756	0.001	98	557870	5.00	4.83	
51 Cyclohexane	56	6.854	6.854	0.000	88	519412	5.00	4.86	
53 1,1-Dichloropropene	75	6.970	6.964	0.006	95	470361	5.00	4.87	
54 Carbon tetrachloride	117	6.970	6.970	0.000	89	489709	5.00	4.87	
55 Isobutyl alcohol	41	7.116	7.110	0.006	93	97966	125.0	106.2	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.189	7.189	0.000	99	117979	10.0	9.96	
57 Benzene	78	7.226	7.226	0.000	97	1364093	5.00	4.87	
58 1,2-Dichloroethane	62	7.293	7.293	0.000	98	373200	5.00	4.92	
60 Tert-amyl methyl ether	73	7.415	7.415	0.000	99	894474	5.00	5.11	
* 61 Fluorobenzene (IS)	96	7.628	7.628	0.000	98	2363525	10.0	10.0	
62 n-Heptane	43	7.641	7.640	0.001	90	373228	5.00	4.09	
63 n-Butanol	56	8.000	7.988	0.012	86	164007	250.0	209.9	
64 Trichloroethene	95	8.110	8.110	0.000	97	365747	5.00	4.76	
65 Methylcyclohexane	83	8.415	8.415	0.000	92	580805	5.00	4.67	
66 1,2-Dichloropropane	63	8.439	8.433	0.006	84	332260	5.00	4.90	
67 Methyl methacrylate	69	8.525	8.518	0.006	88	155695	5.00	5.35	
68 1,4-Dioxane	88	8.531	8.524	0.007	29	16524	125.0	65.3	
69 Dibromomethane	93	8.549	8.549	0.000	93	167436	5.00	4.94	
71 Dichlorobromomethane	83	8.781	8.780	0.001	99	420214	5.00	5.07	
72 2-Nitropropane	41	9.049	9.043	0.006	99	41710	5.00	4.71	
75 1-Bromo-2-chloroethane	63	9.177	9.177	0.000	99	326103	5.00	4.81	
76 cis-1,3-Dichloropropene	75	9.329	9.329	0.000	96	504825	5.00	4.89	
77 4-Methyl-2-pentanone (MIBK)	43	9.500	9.500	0.000	95	2463288	62.5	62.6	
$ 78 Toluene-d8 (Surr)	98	9.640	9.640	0.000	93	2376157	10.0	10.0	
79 Toluene	92	9.719	9.719	0.000	98	905236	5.00	4.85	
97 trans-1,3-Dichloropropene	75	9.975	9.975	0.000	92	434282	5.00	5.18	
99 Ethyl methacrylate	69	10.042	10.036	0.006	88	342213	5.00	5.22	
100 1,1,2-Trichloroethane	97	10.183	10.183	0.000	91	243212	5.00	4.94	
101 Tetrachloroethene	166	10.274	10.274	0.000	98	441939	5.00	4.87	
102 1,3-Dichloropropane	76	10.341	10.341	0.000	89	413306	5.00	5.01	
103 2-Hexanone	43	10.396	10.390	0.006	95	1738283	62.5	63.1	
105 Chlorodibromomethane	129	10.561	10.561	0.000	90	293585	5.00	5.07	
106 Ethylene Dibromide	107	10.670	10.670	0.000	99	235375	5.00	4.94	
* 107 Chlorobenzene-d5 (IS)	117	11.103	11.103	0.000	86	1797539	10.0	10.0	
108 1-Chlorohexane	91	11.109	11.109	0.000	96	492386	5.00	4.60	
109 Chlorobenzene	112	11.128	11.128	0.000	95	1007588	5.00	4.84	
112 Ethylbenzene	91	11.213	11.213	0.000	98	1750170	5.00	4.89	
111 1,1,1,2-Tetrachloroethane	131	11.213	11.213	0.000	95	359484	5.00	4.98	
113 m-Xylene & p-Xylene	106	11.329	11.329	0.000	100	1401558	10.0	9.85	
114 o-Xylene	106	11.658	11.658	0.000	96	674027	5.00	4.85	
115 Styrene	104	11.676	11.676	0.000	95	1108593	5.00	5.06	
116 Bromoform	173	11.835	11.835	0.000	98	161069	5.00	5.06	
117 Isopropylbenzene	105	11.957	11.957	0.000	96	1807016	5.00	4.98	
$ 120 4-Bromofluorobenzene (Surr)	95	12.103	12.103	0.000	93	878859	10.0	10.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
121 1,1,2,2-Tetrachloroethane	83	12.201	12.201	0.000	94	304451	5.00	5.02	
122 Bromobenzene	156	12.219	12.219	0.000	96	430891	5.00	5.01	
123 trans-1,4-Dichloro-2-butene	53	12.225	12.225	0.000	92	363061	25.0	24.7	
124 1,2,3-Trichloropropane	110	12.249	12.249	0.000	82	84647	5.00	4.98	
125 N-Propylbenzene	91	12.286	12.286	0.000	99	2023608	5.00	4.92	
126 2-Chlorotoluene	126	12.365	12.365	0.000	97	421810	5.00	4.88	
127 1,3,5-Trimethylbenzene	105	12.420	12.420	0.000	94	1471636	5.00	4.84	
128 4-Chlorotoluene	126	12.457	12.457	0.000	97	432001	5.00	4.91	
129 tert-Butylbenzene	134	12.664	12.664	0.000	92	325187	5.00	4.79	M
130 Pentachloroethane	167	12.701	12.700	0.001	92	270358	5.00	4.95	
131 1,2,4-Trimethylbenzene	105	12.707	12.707	0.000	97	1490980	5.00	4.88	
132 sec-Butylbenzene	105	12.829	12.828	0.001	94	1882562	5.00	4.91	
133 1,3-Dichlorobenzene	146	12.932	12.926	0.006	98	815093	5.00	4.85	
134 4-Isopropyltoluene	119	12.938	12.938	0.000	97	1630786	5.00	4.87	
* 135 1,4-Dichlorobenzene-d4	152	12.987	12.981	0.006	94	1044567	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.999	12.999	0.000	95	843235	5.00	4.81	
137 1,2,3-Trimethylbenzene	120	13.011	13.011	0.000	98	654650	5.00	4.86	
138 Benzyl chloride	126	13.078	13.078	0.000	98	117278	5.00	4.87	
139 n-Butylbenzene	92	13.225	13.225	0.000	97	731061	5.00	4.73	
140 1,2-Dichlorobenzene	146	13.261	13.261	0.000	98	754398	5.00	4.82	
142 1,2-Dibromo-3-Chloropropane	155	13.804	13.804	0.000	88	41977	5.00	4.97	
143 1,3,5-Trichlorobenzene	180	13.932	13.932	0.000	98	563532	5.00	4.69	
144 1,2,4-Trichlorobenzene	180	14.353	14.353	0.000	94	483851	5.00	4.68	
145 Hexachlorobutadiene	225	14.432	14.432	0.000	96	194773	5.00	4.24	
146 Naphthalene	128	14.536	14.529	0.007	97	900492	5.00	4.70	
147 1,2,3-Trichlorobenzene	180	14.676	14.676	0.000	96	409517	5.00	4.59	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
165 Isopropyl alcohol	45		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00077	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00079	Amount Added:	12.50	Units: uL	
LCS_ETBR_00003	Amount Added:	12.50	Units: uL	
MSV_LCS_EE_00003	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00104	Amount Added:	12.50	Units: uL	
MSV_LCS_Penta_00020	Amount Added:	12.50	Units: uL	
MSV_LLcentISS_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 13-Oct-2022 11:34:45 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X18.D

Injection Date: 11-Oct-2022 20:41:30 Instrument ID: 19930 Operator ID: knk41612

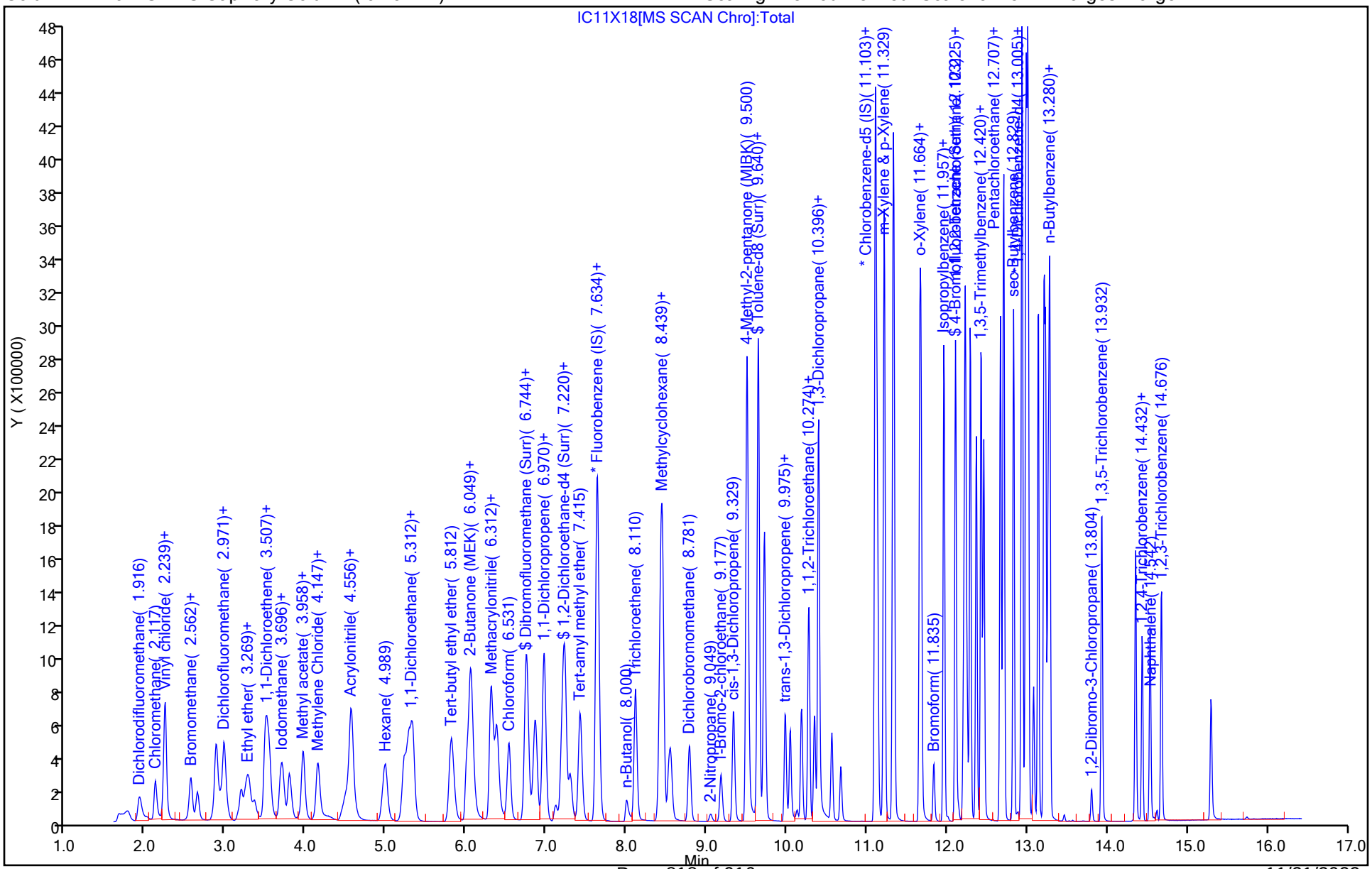
Lims ID: ICV Worklist Smp#: 19

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 18

Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

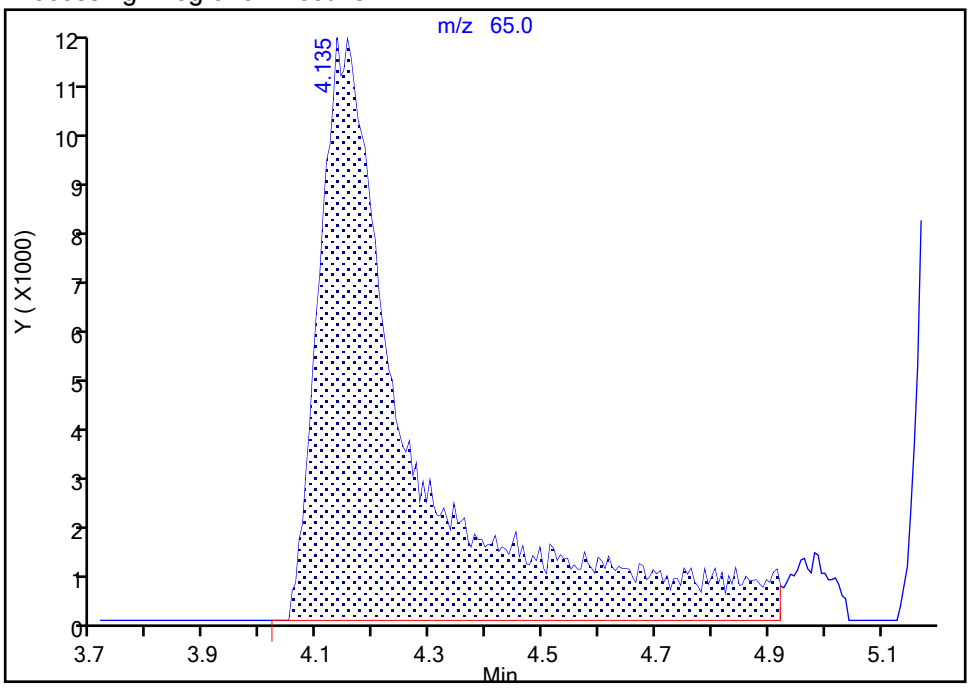
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X18.D				
Injection Date:	11-Oct-2022 20:41:30	Instrument ID:	19930		
Lims ID:	ICV				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

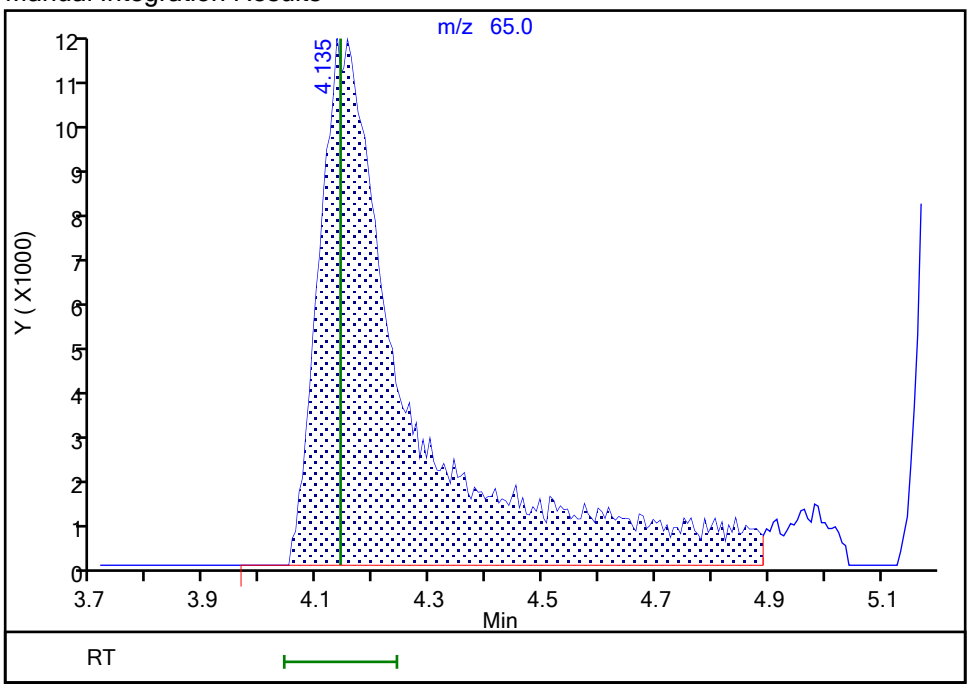
Processing Integration Results

RT: 4.14
Area: 127352
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.14
Area: 125892
Amount: 50.000000
Amount Units: ug/l



Reviewer: UKEK, 13-Oct-2022 09:20:44
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

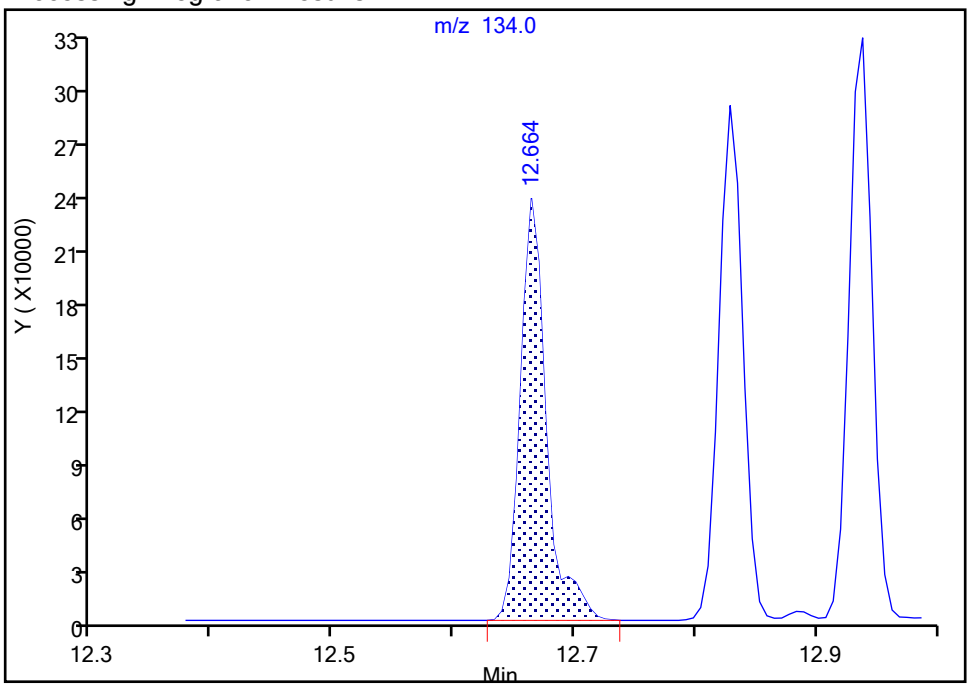
Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X18.D				
Injection Date:	11-Oct-2022 20:41:30	Instrument ID:	19930		
Lims ID:	ICV				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

129 tert-Butylbenzene, CAS: 98-06-6

Signal: 1

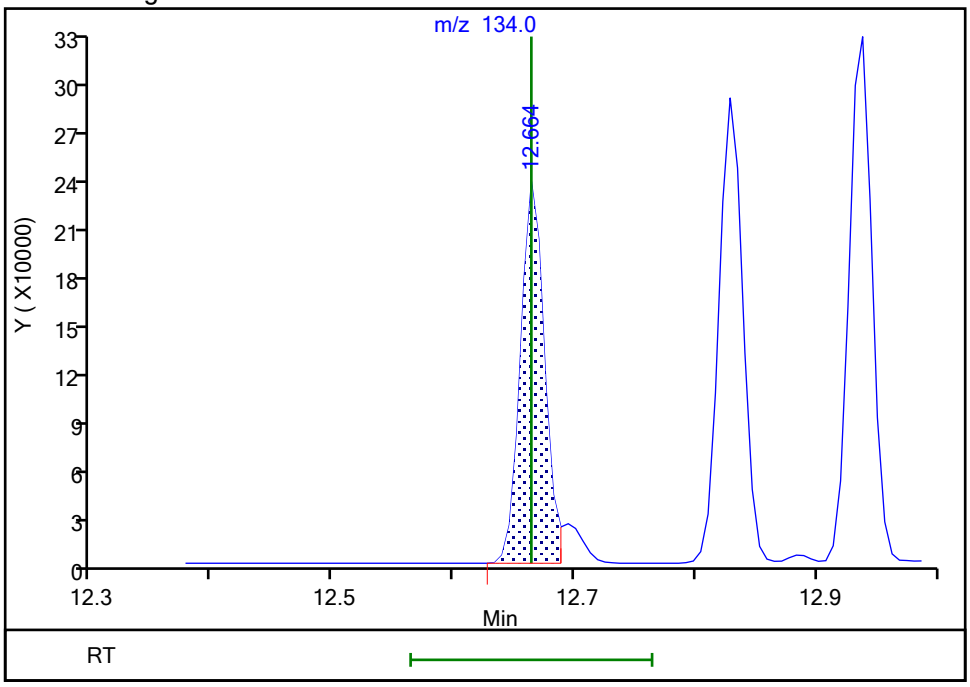
Processing Integration Results

RT: 12.66
Area: 350404
Amount: 5.163390
Amount Units: ug/l



Manual Integration Results

RT: 12.66
Area: 325187
Amount: 4.791804
Amount Units: ug/l



Reviewer: UKEK, 13-Oct-2022 09:46:56
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-103501-1

SDG No.:

Lab Sample ID: CCVIS 410-315144/3 Calibration Date: 11/08/2022 11:19

Instrument ID: 19930 Calib Start Date: 10/11/2022 18:14

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 10/11/2022 20:20

Lab File ID: IN08X02.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	0.4148	0.3597	0.1000	8.67	10.0	-13.3	20.0
Chloromethane	Ave	0.4116	0.3417	0.1000	8.30	10.0	-17.0	20.0
Vinyl chloride	Ave	0.4033	0.3456	0.1000	8.57	10.0	-14.3	20.0
1,3-Butadiene	Ave	0.3554	0.3541		9.96	10.0	-0.4	20.0
Bromomethane	Ave	0.2842	0.2445	0.1000	8.60	10.0	-14.0	20.0
Chloroethane	Ave	0.2405	0.2031	0.1000	8.45	10.0	-15.5	20.0
Dichlorofluoromethane	Ave	0.5628	0.4863		8.64	10.0	-13.6	20.0
Trichlorofluoromethane	Ave	0.5649	0.5005	0.1000	8.86	10.0	-11.4	20.0
Ethyl ether	Ave	0.2020	0.2138		10.6	10.0	5.8	20.0
Freon 123a	Ave	0.3441	0.3277		9.52	10.0	-4.8	20.0
Acrolein	Ave	2.864	1.954		341	500	-31.8*	20.0
1,1-Dichloroethene	Ave	0.2592	0.2422	0.1000	9.34	10.0	-6.6	20.0
Acetone	Ave	3.271	2.303	0.1000	70.4	100	-29.6*	20.0
Freon 113	Ave	0.2525	0.2405	0.1000	9.52	10.0	-4.8	20.0
Methyl iodide	Ave	0.4737	0.4293		9.06	10.0	-9.4	20.0
Ethyl bromide	Lin		0.2318		9.97	10.0	-0.3	20.0
Carbon disulfide	Ave	0.6449	0.5907	0.1000	9.16	10.0	-8.4	20.0
Methyl acetate	Ave	9.297	7.624	0.1000	8.20	10.0	-18.0	20.0
Allyl chloride	Ave	0.3717	0.3384		9.10	10.0	-9.0	20.0
Methylene Chloride	Ave	0.2730	0.2628	0.1000	9.62	10.0	-3.8	20.0
t-Butyl alcohol	Ave	1.064	0.9091		171	200	-14.5	20.0
Acrylonitrile	Ave	4.160	3.456		20.8	25.0	-16.9	20.0
Methyl tertiary butyl ether	Ave	0.6533	0.6451	0.1000	9.87	10.0	-1.3	20.0
trans-1,2-Dichloroethene	Ave	0.2871	0.2714	0.1000	9.45	10.0	-5.5	20.0
n-Hexane	Ave	0.3704	0.3515		9.49	10.0	-5.1	20.0
1,1-Dichloroethane	Ave	0.5124	0.4837	0.2000	9.44	10.0	-5.6	20.0
di-Isopropyl ether	Ave	0.7861	0.7425		9.44	10.0	-5.6	20.0
2-Chloro-1,3-butadiene	Ave	0.4060	0.3712		9.14	10.0	-8.6	20.0
Ethyl t-butyl ether	Ave	0.8028	0.7361		9.17	10.0	-8.3	20.0
2-Butanone	Ave	5.926	4.260	0.1000	71.9	100	-28.1*	20.0
cis-1,2-Dichloroethene	Ave	0.3171	0.3079	0.1000	9.71	10.0	-2.9	20.0
2,2-Dichloropropane	Ave	0.4602	0.3980		8.65	10.0	-13.5	20.0
Propionitrile	Ave	1.563	1.308		167	200	-16.3	20.0
Methacrylonitrile	Ave	6.377	4.596		72.1	100	-27.9*	20.0
Bromochloromethane	Ave	0.1404	0.1354		9.64	10.0	-3.6	20.0
Tetrahydrofuran	Ave	1.744	1.379		39.5	50.0	-20.9*	20.0
Chloroform	Ave	0.5145	0.4874	0.2000	9.47	10.0	-5.3	20.0
1,1,1-Trichloroethane	Ave	0.4884	0.4433	0.1000	9.08	10.0	-9.2	20.0
Cyclohexane	Ave	0.4520	0.4376	0.1000	9.68	10.0	-3.2	20.0
1,1-Dichloropropene	Ave	0.4090	0.3854		9.42	10.0	-5.8	20.0
Carbon tetrachloride	Ave	0.4252	0.3940	0.1000	9.27	10.0	-7.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-103501-1

SDG No.:

Lab Sample ID: CCVIS 410-315144/3 Calibration Date: 11/08/2022 11:19

Instrument ID: 19930 Calib Start Date: 10/11/2022 18:14

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 10/11/2022 20:20

Lab File ID: IN08X02.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
Isobutyl alcohol	Ave	0.3664	0.3288		449	500	-10.3	20.0
Benzene	Ave	1.185	1.172	0.5000	9.89	10.0	-1.1	20.0
1,2-Dichloroethane	Ave	0.3211	0.2985	0.1000	9.30	10.0	-7.0	20.0
t-Amyl methyl ether	Ave	0.7400	0.7243		9.79	10.0	-2.1	20.0
n-Heptane	Ave	0.3861	0.3502		9.07	10.0	-9.3	20.0
n-Butanol	Ave	0.3104	0.3258		918	875	5.0	20.0
Trichloroethene	Ave	0.3252	0.3119	0.2000	9.59	10.0	-4.1	20.0
Methylcyclohexane	Ave	0.5258	0.5133	0.1000	9.76	10.0	-2.4	20.0
1,2-Dichloropropane	Ave	0.2868	0.2952	0.1000	10.3	10.0	2.9	20.0
1,4-Dioxane	Ave	0.1005	0.0780	0.0050	388	500	-22.3*	20.0
Methyl methacrylate	Ave	11.57	8.924		7.71	10.0	-22.9*	20.0
Dibromomethane	Ave	0.1434	0.1440		10.0	10.0	0.4	20.0
Bromodichloromethane	Ave	0.3505	0.3534	0.2000	10.1	10.0	0.8	20.0
2-Nitropropane	Ave	3.518	2.301		32.7	50.0	-34.6*	20.0
1-Bromo-2-chloroethane	Ave	0.2871	0.2998		10.4	10.0	4.4	20.0
cis-1,3-Dichloropropene	Ave	0.4368	0.4343	0.2000	9.94	10.0	-0.6	20.0
4-Methyl-2-pentanone	Ave	15.63	10.58	0.1000	67.7	100	-32.3*	20.0
Toluene	Ave	1.039	1.002	0.4000	9.65	10.0	-3.5	20.0
trans-1,3-Dichloropropene	Ave	0.4667	0.4666	0.1000	10.0	10.0	-0.0	20.0
Ethyl methacrylate	Ave	0.3645	0.3771		10.3	10.0	3.4	20.0
1,1,2-Trichloroethane	Ave	0.2741	0.2769	0.1000	10.1	10.0	1.0	20.0
Tetrachloroethene	Ave	0.5053	0.4719	0.2000	9.34	10.0	-6.6	20.0
1,3-Dichloropropane	Ave	0.4593	0.4535		9.87	10.0	-1.3	20.0
2-Hexanone	Ave	10.94	7.591	0.1000	69.4	100	-30.6*	20.0
Dibromochloromethane	Ave	0.3223	0.3439		10.7	10.0	6.7	20.0
1,2-Dibromoethane	Ave	0.2652	0.2668	0.1000	10.1	10.0	0.6	20.0
1-Chlorohexane	Ave	0.5954	0.5471		9.19	10.0	-8.1	20.0
Chlorobenzene	Ave	1.158	1.113	0.5000	9.61	10.0	-3.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4016	0.3820		9.51	10.0	-4.9	20.0
Ethylbenzene	Ave	1.990	1.935	0.1000	9.72	10.0	-2.8	20.0
m&p-Xylene	Ave	0.7915	0.7665	0.1000	19.4	20.0	-3.2	20.0
o-Xylene	Ave	0.7731	0.7416	0.3000	9.59	10.0	-4.1	20.0
Styrene	Ave	1.220	1.254	0.3000	10.3	10.0	2.8	20.0
Bromoform	Ave	0.1770	0.2175	0.1000	12.3	10.0	22.9*	20.0
Isopropylbenzene	Ave	2.020	1.961	0.1000	9.71	10.0	-2.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5806	0.6088	0.3000	10.5	10.0	4.9	20.0
Bromobenzene	Ave	0.8231	0.7917		9.62	10.0	-3.8	20.0
trans-1,4-Dichloro-2-butene	Ave	5.831	3.666		62.9	100	-37.1*	20.0
1,2,3-Trichloropropane	Ave	0.1627	0.1659		10.2	10.0	2.0	20.0
N-Propylbenzene	Ave	3.935	3.894		9.90	10.0	-1.0	20.0
2-Chlorotoluene	Ave	0.8280	0.7798		9.42	10.0	-5.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-103501-1

SDG No.:

Lab Sample ID: CCVIS 410-315144/3 Calibration Date: 11/08/2022 11:19

Instrument ID: 19930 Calib Start Date: 10/11/2022 18:14

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 10/11/2022 20:20

Lab File ID: IN08X02.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
1,3,5-Trimethylbenzene	Ave	2.908	2.830		9.73	10.0	-2.7	20.0
4-Chlorotoluene	Ave	0.8431	0.8085		9.59	10.0	-4.1	20.0
tert-Butylbenzene	Ave	0.6497	0.6594		10.1	10.0	1.5	20.0
Pentachloroethane	Ave	0.5232	0.5098		9.74	10.0	-2.6	20.0
1,2,4-Trimethylbenzene	Ave	2.926	2.894		9.89	10.0	-1.1	20.0
sec-Butylbenzene	Ave	3.673	3.599		9.80	10.0	-2.0	20.0
1,3-Dichlorobenzene	Ave	1.608	1.589	0.6000	9.88	10.0	-1.2	20.0
p-Isopropyltoluene	Ave	3.205	3.136		9.79	10.0	-2.1	20.0
1,4-Dichlorobenzene	Ave	1.679	1.616	0.5000	9.63	10.0	-3.7	20.0
1,2,3-Trimethylbenzene	Ave	1.290	1.259		9.76	10.0	-2.4	20.0
Benzyl chloride	Ave	0.2308	0.2558		11.1	10.0	10.8	20.0
n-Butylbenzene	Ave	1.478	1.512		10.2	10.0	2.3	20.0
1,2-Dichlorobenzene	Ave	1.498	1.462	0.4000	9.76	10.0	-2.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0809	0.0931	0.0500	11.5	10.0	15.1	20.0
1,3,5-Trichlorobenzene	Ave	1.150	1.102		9.58	10.0	-4.2	20.0
1,2,4-Trichlorobenzene	Ave	0.9903	0.9225	0.2000	9.32	10.0	-6.8	20.0
Hexachlorobutadiene	Ave	0.4401	0.3591		8.16	10.0	-18.4	20.0
Naphthalene	Ave	1.834	1.724		9.40	10.0	-6.0	20.0
1,2,3-Trichlorobenzene	Ave	0.8536	0.7728		9.05	10.0	-9.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2523	0.2433		9.64	10.0	-3.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0501	0.0526		10.5	10.0	5.0	20.0
Toluene-d8 (Surr)	Ave	1.322	1.294		9.79	10.0	-2.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4894	0.4778		9.76	10.0	-2.4	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08X02.D
Lims ID: CCVIS VSTD10
Client ID:
Sample Type: CCVIS
Inject. Date: 08-Nov-2022 11:19:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070638-003
Misc. Info.: CCVIS VSTD10
Operator ID: knk41612 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20221108-70638.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 09-Nov-2022 14:36:27 Calib Date: 11-Oct-2022 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1619

First Level Reviewer: changnoit Date: 09-Nov-2022 14:36:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.928	1.928	0.000	99	612033	10.0	8.67	
4 Chloromethane	50	2.129	2.129	0.000	99	581373	10.0	8.30	
5 Vinyl chloride	62	2.233	2.233	0.000	98	587983	10.0	8.57	
6 Butadiene	39	2.251	2.251	0.000	89	602498	10.0	9.96	
7 Bromomethane	94	2.568	2.568	0.000	90	416092	10.0	8.60	
8 Chloroethane	64	2.654	2.654	0.000	99	345596	10.0	8.45	
9 Dichlorofluoromethane	67	2.885	2.885	0.000	97	827559	10.0	8.64	
10 Trichlorofluoromethane	101	2.959	2.959	0.000	97	851654	10.0	8.86	
11 Ethyl ether	59	3.190	3.190	0.000	89	363832	10.0	10.6	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.282	3.282	0.000	91	557597	10.0	9.52	
14 Acrolein	56	3.361	3.361	0.000	100	2721960	500.0	341.0	
15 1,1-Dichloroethene	96	3.507	3.507	0.000	97	412038	10.0	9.34	
16 Acetone	43	3.532	3.532	0.000	100	641588	100.0	70.4	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.544	3.544	0.000	90	409173	10.0	9.52	
18 Iodomethane	142	3.696	3.696	0.000	98	730451	10.0	9.06	
19 Ethyl bromide	108	3.727	3.727	0.000	98	394262	10.0	9.97	
20 Carbon disulfide	76	3.800	3.800	0.000	98	1005069	10.0	9.16	
23 Methyl acetate	43	3.946	3.946	0.000	96	212426	10.0	8.20	
24 3-Chloro-1-propene	41	3.971	3.971	0.000	93	575861	10.0	9.10	
25 Methylene Chloride	84	4.160	4.160	0.000	89	447165	10.0	9.62	
* 26 t-Butyl alcohol-d10 (IS)	65	4.166	4.166	0.000	35	139320	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.288	4.288	0.000	100	506635	200.0	170.9	
28 Acrylonitrile	53	4.483	4.483	0.000	99	240777	25.0	20.8	
29 Methyl tert-butyl ether	73	4.562	4.562	0.000	94	1097760	10.0	9.87	
30 trans-1,2-Dichloroethene	96	4.568	4.568	0.000	99	461849	10.0	9.45	
31 Hexane	57	4.995	4.995	0.000	90	598185	10.0	9.49	
32 1,1-Dichloroethane	63	5.226	5.226	0.000	96	823127	10.0	9.44	
35 Isopropyl ether	45	5.281	5.281	0.000	93	1263346	10.0	9.44	
36 2-Chloro-1,3-butadiene	53	5.330	5.330	0.000	89	631701	10.0	9.14	
37 Tert-butyl ethyl ether	59	5.818	5.818	0.000	97	1252486	10.0	9.17	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2-Butanone (MEK)	43	6.019	6.019	0.000	98	1186946	100.0	71.9	
39 cis-1,2-Dichloroethene	96	6.049	6.049	0.000	80	523877	10.0	9.71	
40 2,2-Dichloropropane	77	6.068	6.068	0.000	86	677293	10.0	8.65	
43 Propionitrile	54	6.104	6.104	0.000	99	729099	200.0	167.4	
45 Methacrylonitrile	67	6.324	6.324	0.000	91	1280625	100.0	72.1	
46 Chlorobromomethane	128	6.379	6.379	0.000	90	230377	10.0	9.64	
47 Tetrahydrofuran	71	6.397	6.397	0.000	80	192081	50.0	39.5	
48 Chloroform	83	6.531	6.531	0.000	93	829387	10.0	9.47	
$ 49 Dibromofluoromethane (Surr)	113	6.751	6.751	0.000	94	413973	10.0	9.64	
50 1,1,1-Trichloroethane	97	6.757	6.757	0.000	98	754356	10.0	9.08	
51 Cyclohexane	56	6.860	6.860	0.000	88	744603	10.0	9.68	
53 1,1-Dichloropropene	75	6.970	6.970	0.000	97	655753	10.0	9.42	
54 Carbon tetrachloride	117	6.976	6.976	0.000	97	670473	10.0	9.27	
55 Isobutyl alcohol	41	7.116	7.116	0.000	95	458083	500.0	448.7	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.202	7.202	0.000	97	89537	10.0	10.5	
57 Benzene	78	7.232	7.232	0.000	95	1994605	10.0	9.89	
58 1,2-Dichloroethane	62	7.299	7.299	0.000	97	507932	10.0	9.30	
60 Tert-amyl methyl ether	73	7.421	7.421	0.000	99	1232501	10.0	9.79	
* 61 Fluorobenzene (IS)	96	7.635	7.635	0.000	99	1701581	10.0	10.0	
62 n-Heptane	43	7.647	7.647	0.000	90	595943	10.0	9.07	
63 n-Butanol	56	7.994	7.994	0.000	85	794243	875.0	918.4	
64 Trichloroethene	95	8.110	8.110	0.000	97	530643	10.0	9.59	
65 Methylcyclohexane	83	8.421	8.421	0.000	92	873353	10.0	9.76	
66 1,2-Dichloropropane	63	8.439	8.439	0.000	97	502264	10.0	10.3	
67 Methyl methacrylate	69	8.525	8.525	0.000	86	248662	10.0	7.71	
68 1,4-Dioxane	88	8.525	8.525	0.000	38	108705	500.0	388.3	
69 Dibromomethane	93	8.549	8.549	0.000	93	245045	10.0	10.0	
71 Dichlorobromomethane	83	8.787	8.787	0.000	99	601400	10.0	10.1	
72 2-Nitropropane	41	9.049	9.049	0.000	98	320597	50.0	32.7	
75 1-Bromo-2-chloroethane	63	9.177	9.177	0.000	98	510073	10.0	10.4	
76 cis-1,3-Dichloropropene	75	9.335	9.335	0.000	98	739009	10.0	9.94	
77 4-Methyl-2-pentanone (MIBK)	43	9.500	9.500	0.000	94	2946848	100.0	67.7	
$ 78 Toluene-d8 (Surr)	98	9.646	9.646	0.000	93	1713054	10.0	9.79	
79 Toluene	92	9.719	9.719	0.000	99	1326919	10.0	9.65	
97 trans-1,3-Dichloropropene	75	9.976	9.976	0.000	90	617620	10.0	10.0	
99 Ethyl methacrylate	69	10.036	10.036	0.000	88	499148	10.0	10.3	
100 1,1,2-Trichloroethane	97	10.183	10.183	0.000	90	366512	10.0	10.1	
101 Tetrachloroethene	166	10.274	10.274	0.000	98	624678	10.0	9.34	
102 1,3-Dichloropropane	76	10.341	10.341	0.000	87	600365	10.0	9.87	
103 2-Hexanone	43	10.396	10.396	0.000	94	2115100	100.0	69.4	
105 Chlorodibromomethane	129	10.561	10.561	0.000	89	455278	10.0	10.7	
106 Ethylene Dibromide	107	10.671	10.671	0.000	99	353231	10.0	10.1	
* 107 Chlorobenzene-d5 (IS)	117	11.103	11.103	0.000	84	1323780	10.0	10.0	
108 1-Chlorohexane	91	11.109	11.109	0.000	95	724306	10.0	9.19	
109 Chlorobenzene	112	11.128	11.128	0.000	96	1472956	10.0	9.61	
111 1,1,1,2-Tetrachloroethane	131	11.213	11.213	0.000	97	505724	10.0	9.51	
112 Ethylbenzene	91	11.213	11.213	0.000	98	2561207	10.0	9.72	
113 m-Xylene & p-Xylene	106	11.329	11.329	0.000	100	2029289	20.0	19.4	
114 o-Xylene	106	11.658	11.658	0.000	96	981763	10.0	9.59	
115 Styrene	104	11.676	11.676	0.000	95	1660205	10.0	10.3	
116 Bromoform	173	11.835	11.835	0.000	98	287943	10.0	12.3	
117 Isopropylbenzene	105	11.957	11.957	0.000	95	2596498	10.0	9.71	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 120 4-Bromofluorobenzene (Surr)	95	12.103	12.103	0.000	94	632447	10.0	9.76	
121 1,1,2,2-Tetrachloroethane	83	12.201	12.201	0.000	92	477376	10.0	10.5	
122 Bromobenzene	156	12.219	12.219	0.000	97	620787	10.0	9.62	
123 trans-1,4-Dichloro-2-butene	53	12.225	12.225	0.000	91	1021535	100.0	62.9	
124 1,2,3-Trichloropropane	110	12.249	12.249	0.000	81	130071	10.0	10.2	
125 N-Propylbenzene	91	12.286	12.286	0.000	99	3053208	10.0	9.90	
126 2-Chlorotoluene	126	12.365	12.365	0.000	97	611406	10.0	9.42	
127 1,3,5-Trimethylbenzene	105	12.426	12.426	0.000	94	2218586	10.0	9.73	
128 4-Chlorotoluene	126	12.457	12.457	0.000	97	633924	10.0	9.59	
129 tert-Butylbenzene	134	12.664	12.664	0.000	92	517016	10.0	10.1	
130 Pentachloroethane	167	12.701	12.701	0.000	93	399713	10.0	9.74	
131 1,2,4-Trimethylbenzene	105	12.707	12.707	0.000	96	2268801	10.0	9.89	
132 sec-Butylbenzene	105	12.829	12.829	0.000	94	2821967	10.0	9.80	
133 1,3-Dichlorobenzene	146	12.932	12.932	0.000	98	1246078	10.0	9.88	
134 4-Isopropyltoluene	119	12.938	12.938	0.000	97	2459276	10.0	9.79	
* 135 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	93	784085	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.999	12.999	0.000	95	1267005	10.0	9.63	
137 1,2,3-Trimethylbenzene	120	13.012	13.012	0.000	98	987555	10.0	9.76	
138 Benzyl chloride	126	13.079	13.079	0.000	98	200572	10.0	11.1	
139 n-Butylbenzene	92	13.231	13.231	0.000	96	1185192	10.0	10.2	
140 1,2-Dichlorobenzene	146	13.261	13.261	0.000	99	1146110	10.0	9.76	
142 1,2-Dibromo-3-Chloropropane	155	13.804	13.804	0.000	90	73037	10.0	11.5	
143 1,3,5-Trichlorobenzene	180	13.932	13.932	0.000	98	863823	10.0	9.58	
144 1,2,4-Trichlorobenzene	180	14.353	14.353	0.000	94	723301	10.0	9.32	
145 Hexachlorobutadiene	225	14.432	14.432	0.000	96	281536	10.0	8.16	
146 Naphthalene	128	14.536	14.536	0.000	97	1351499	10.0	9.40	
147 1,2,3-Trichlorobenzene	180	14.676	14.676	0.000	96	605919	10.0	9.05	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
165 Isopropyl alcohol	45		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

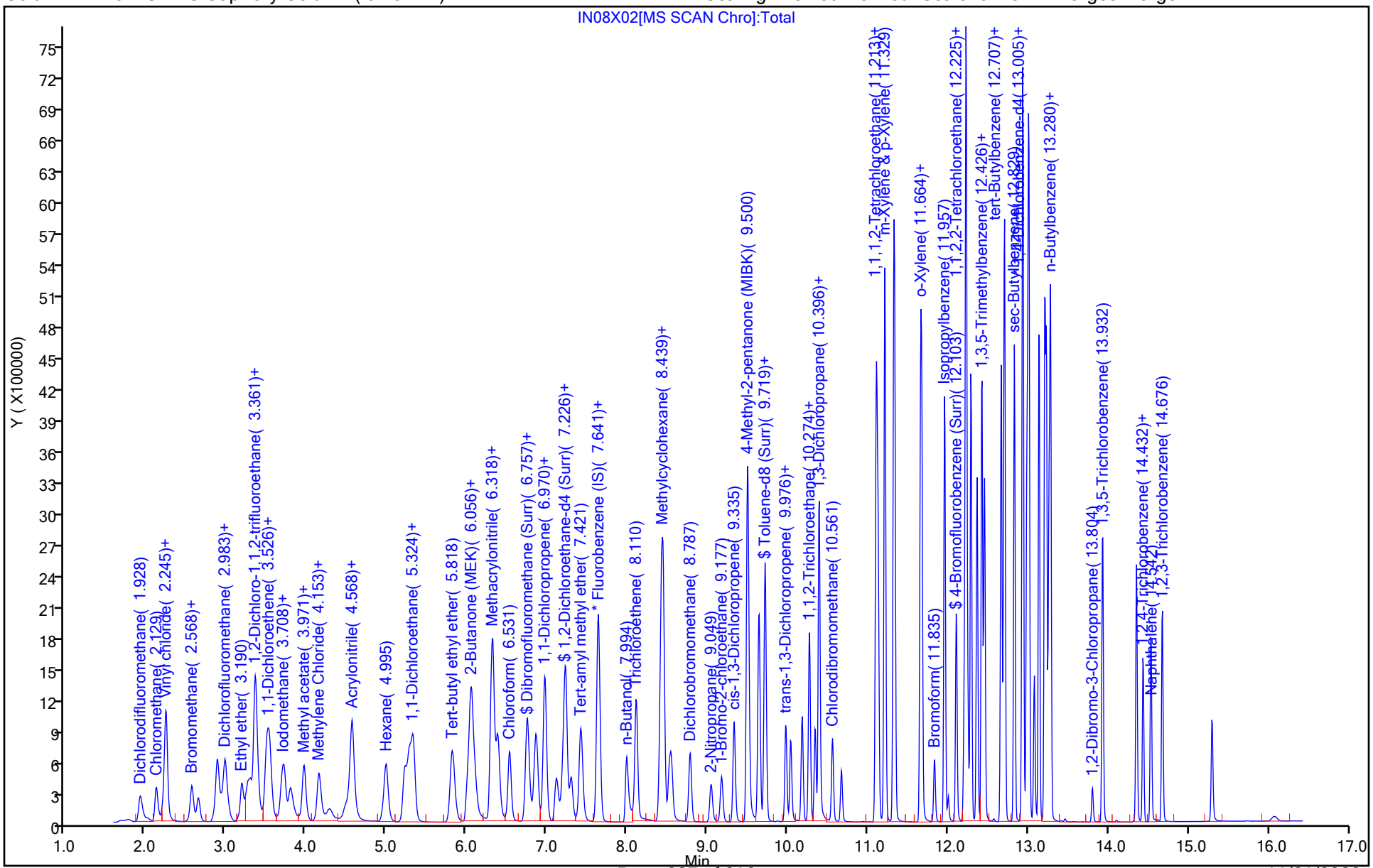
MSV_LL_#2_826_00061	Amount Added: 20.00	Units: uL	
MSV_LL_#1_826_00058	Amount Added: 20.00	Units: uL	
MSV_LL_GAS826_00120	Amount Added: 20.00	Units: uL	
MSV_LLcentISS_00005	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 09-Nov-2022 14:36:28 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08X02.D				
Injection Date:	08-Nov-2022 11:19:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	CCVIS VSTD10			Worklist Smp#:	3
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

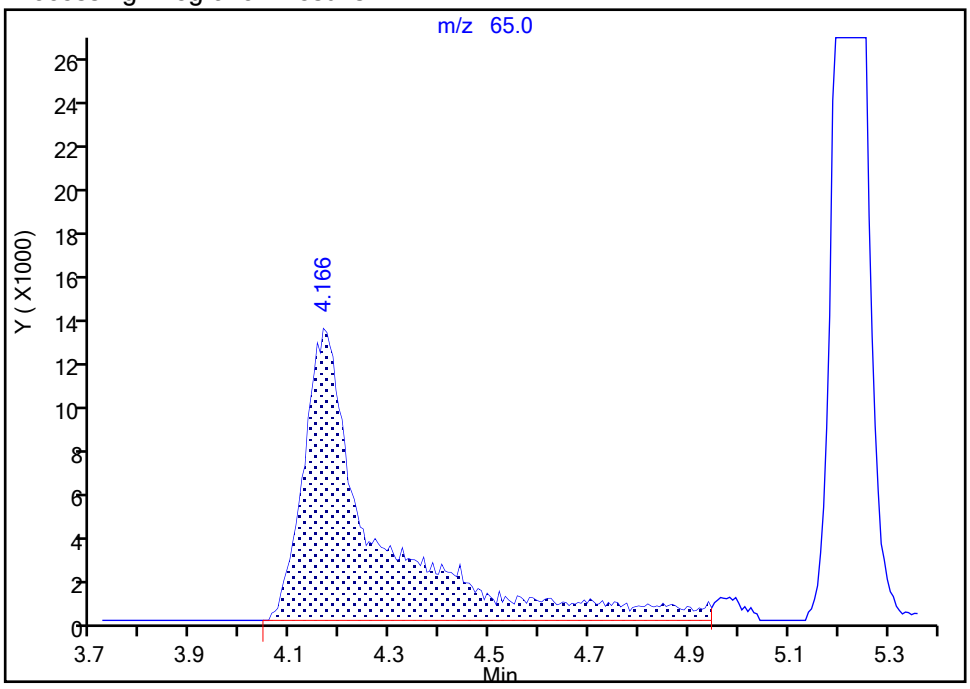
Data File:	\\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08X02.D				
Injection Date:	08-Nov-2022 11:19:30	Instrument ID:	19930		
Lims ID:	CCVIS VSTD10				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

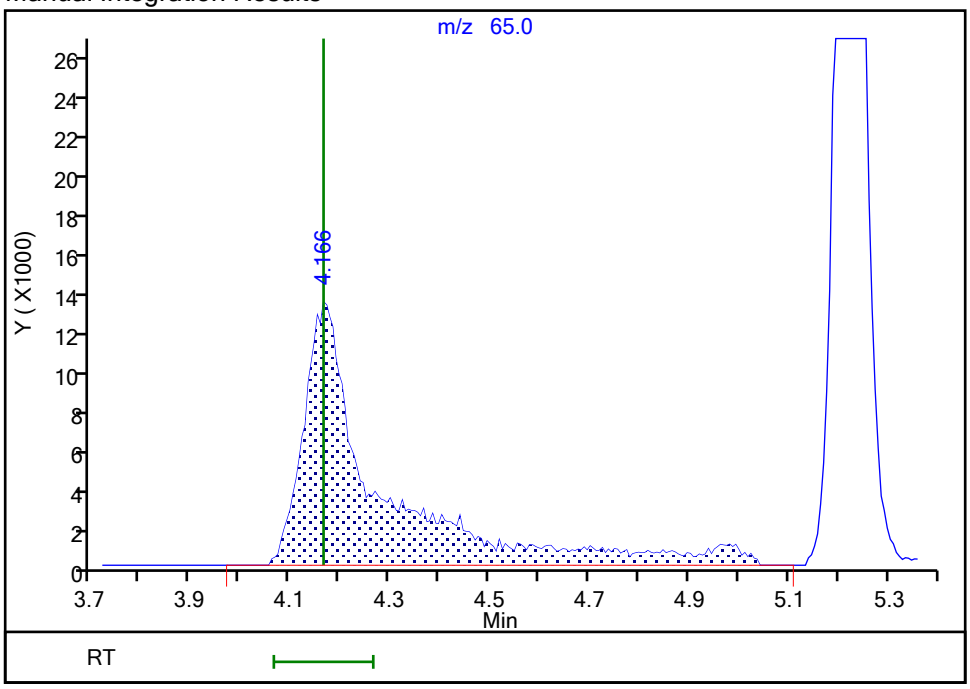
Processing Integration Results

RT: 4.17
Area: 135165
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.17
Area: 139320
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 08-Nov-2022 12:13:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16T01.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	16-Aug-2022 13:07:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0064243-001				
Misc. Info.:	BFB				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	30-Aug-2022 10:58:17	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1639				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 167 BFB	95	5.127	5.127	0.000	0	221756	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

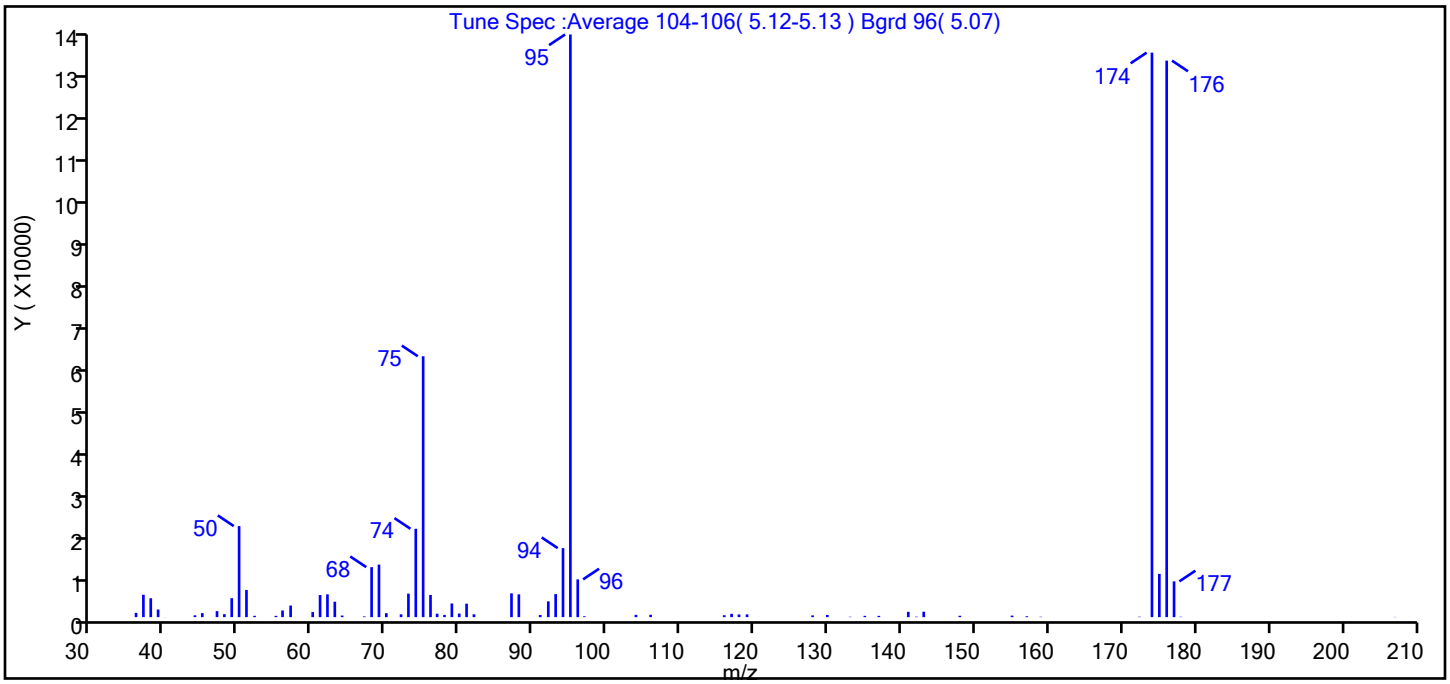
MSV_V_BFB_00008 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16T01.D				
Injection Date:	16-Aug-2022 13:07:30	Instrument ID:	16334		
Lims ID:	bfb				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Tune Method:	BFB Method 8260				

$ 167 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.6
75	30 to 60% of m/z 95	44.8
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	96.9
175	5 to 9% of m/z 174	7.4 (7.7)
176	Greater than 95% but less than 101% of m/z 174	95.5 (98.6)
177	5 to 9% of m/z 176	6.1 (6.4)

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16T01.D\MSV_16334_25mL.rslt\spectra.d
Injection Date: 16-Aug-2022 13:07:30
Spectrum: Tune Spec :Average 104-106(5.12-5.13) Bgrd 96(5.07)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 70

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	971	62.00	5167	87.00	5399	135.00	297
37.00	5082	63.00	3498	88.00	5173	137.00	296
38.00	4289	64.00	361	91.00	486	141.00	1209
39.00	1733	67.00	162	92.00	3581	142.00	110
40.00	24	68.00	11339	93.00	5229	143.00	1229
44.00	414	69.00	11920	94.00	15654	148.00	313
45.00	913	70.00	902	95.00	132160	155.00	351
47.00	1370	72.00	643	96.00	8562	157.00	205
48.00	677	73.00	5331	97.00	197	159.00	88
49.00	4300	74.00	20040	104.00	517	172.00	99
50.00	20656	75.00	59176	106.00	538	174.00	128040
51.00	6158	76.00	5033	116.00	437	175.00	9813
52.00	305	77.00	782	117.00	759	176.00	126224
55.00	295	78.00	504	118.00	610	177.00	8116
56.00	1511	79.00	3102	119.00	626	178.00	87
57.00	2637	80.00	820	128.00	402	207.00	47
60.00	1159	81.00	3054	130.00	495		
61.00	5004	82.00	644	133.00	88		

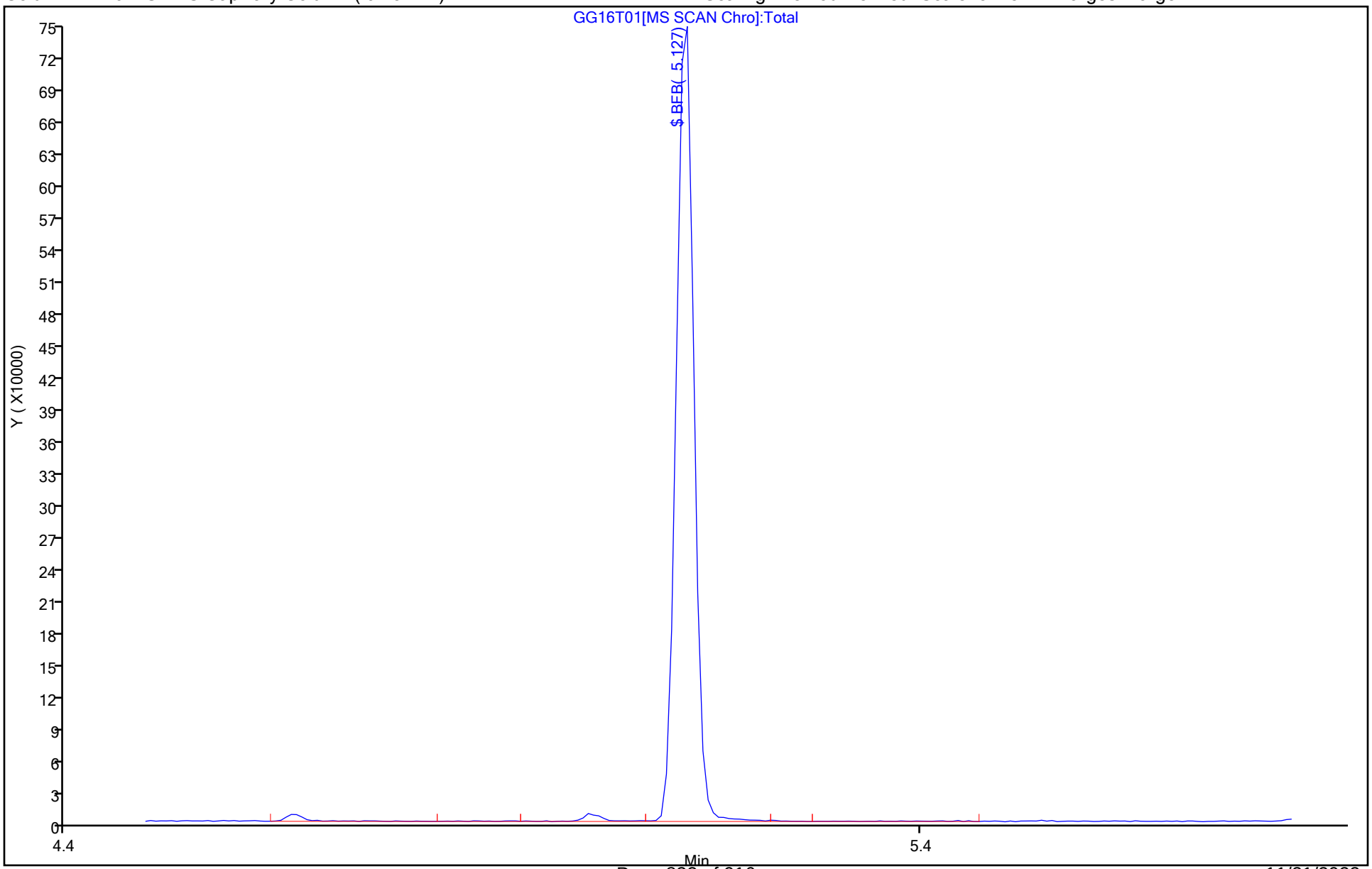
Report Date: 30-Aug-2022 10:58:17 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16T01.D

Injection Date:	16-Aug-2022 13:07:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



11/21/2022
12:36 PM

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06T02.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	06-Nov-2022 10:54:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0070453-001				
Misc. Info.:	BFB				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Nov-2022 15:38:29	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1613				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 167 BFB	95	5.115	5.115	0.000	0	240944	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

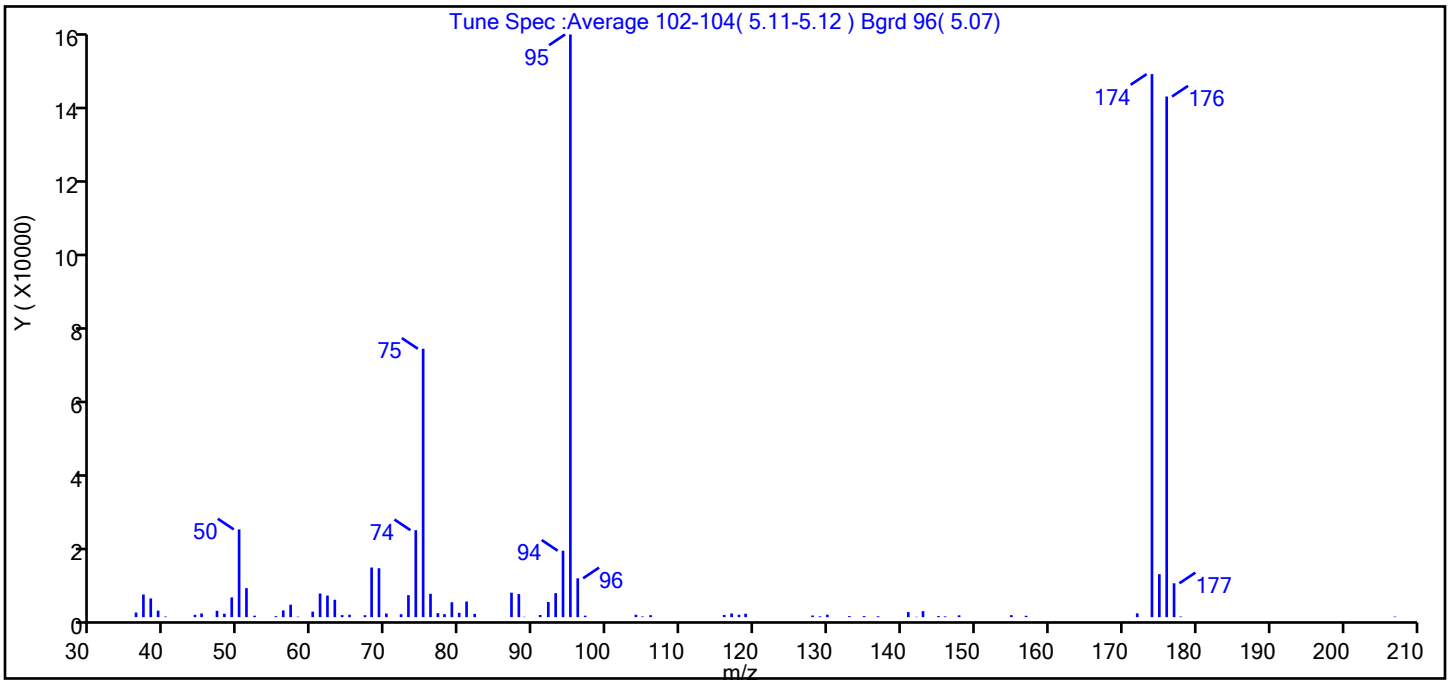
MSV_V_BFB_00008 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06T02.D
Injection Date: 06-Nov-2022 10:54:30 Instrument ID: 16334
Lims ID: BFB
Client ID:
Operator ID: knk41612 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 167 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.1
75	30 to 60% of m/z 95	46.1
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	93.2
175	5 to 9% of m/z 174	7.4 (7.9)
176	Greater than 95% but less than 101% of m/z 174	89.4 (95.9)
177	5 to 9% of m/z 176	5.8 (6.5)

Data File: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06T02.D\MSV_16334_25mL.rslt\spectra.d
Injection Date: 06-Nov-2022 10:54:30
Spectrum: Tune Spec :Average 102-104(5.11-5.12) Bgrd 96(5.07)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 76

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1207	62.00	5616	87.00	6353	130.00	637
37.00	5883	63.00	4521	88.00	5998	133.00	272
38.00	4857	64.00	539	89.00	92	135.00	278
39.00	1696	65.00	622	91.00	555	137.00	228
40.00	168	67.00	501	92.00	3939	141.00	1311
44.00	600	68.00	12900	93.00	6238	142.00	90
45.00	965	69.00	12711	94.00	17272	143.00	1566
47.00	1658	70.00	940	95.00	151488	145.00	283
48.00	891	72.00	769	96.00	10104	146.00	192
49.00	5119	73.00	5719	97.00	385	148.00	474
50.00	22808	74.00	22608	104.00	618	155.00	520
51.00	7539	75.00	69784	105.00	172	157.00	358
52.00	382	76.00	6069	106.00	517	172.00	982
55.00	256	77.00	1044	116.00	557	174.00	141184
56.00	1747	78.00	783	117.00	955	175.00	11174
57.00	3237	79.00	3877	118.00	617	176.00	135360
58.00	135	80.00	1123	119.00	889	177.00	8804
60.00	1429	81.00	4055	128.00	425	178.00	157
61.00	6147	82.00	848	129.00	205	207.00	143

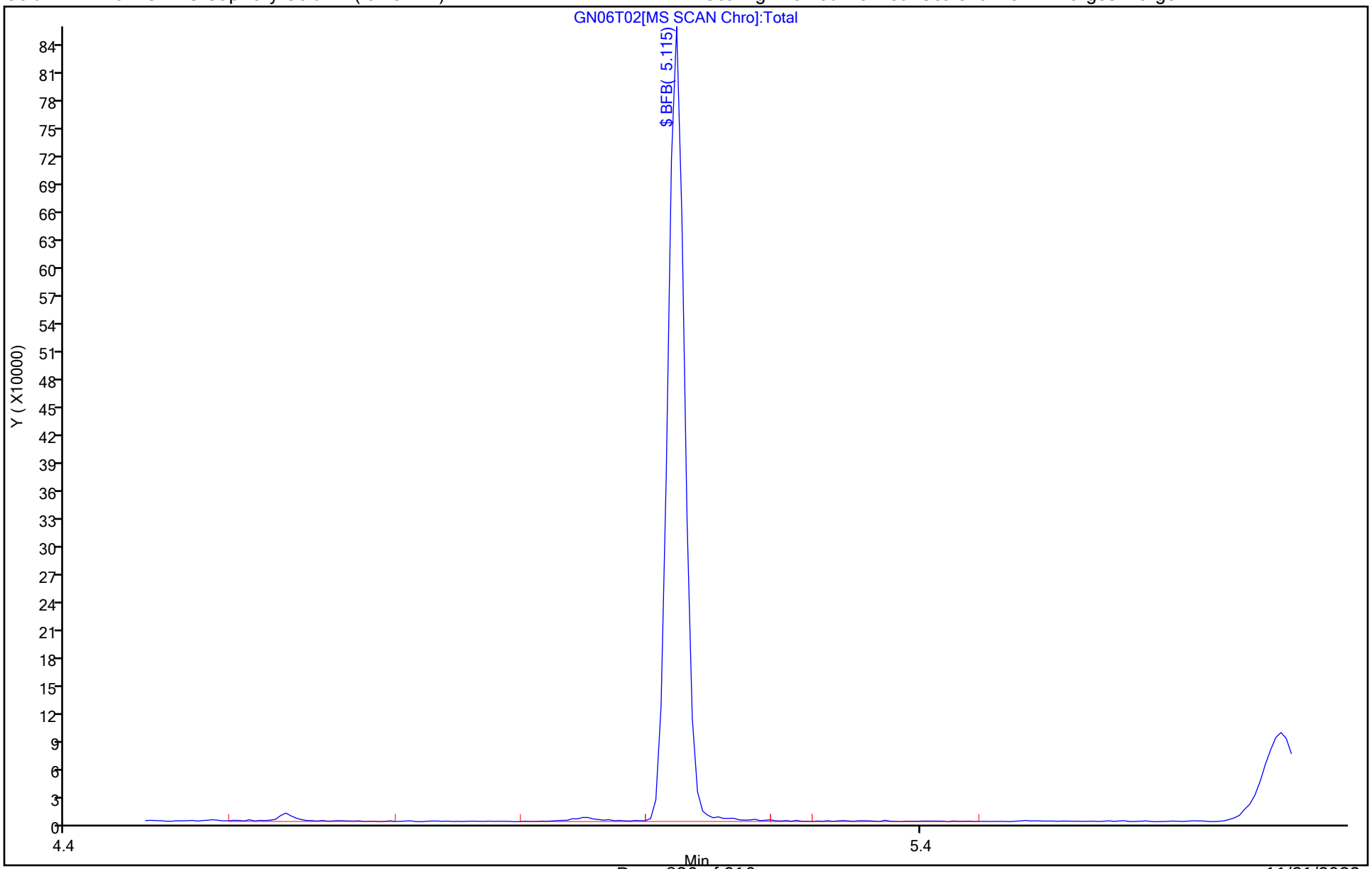
Report Date: 06-Nov-2022 15:38:29 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06T02.D

Injection Date:	06-Nov-2022 10:54:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11T01.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	11-Oct-2022 14:28:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0068441-001				
Misc. Info.:	BFB				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	12-Oct-2022 12:43:58	Calib Date:	11-Oct-2022 20:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1603				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 167 BFB	95	5.123	5.123	0.000	0	324386	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

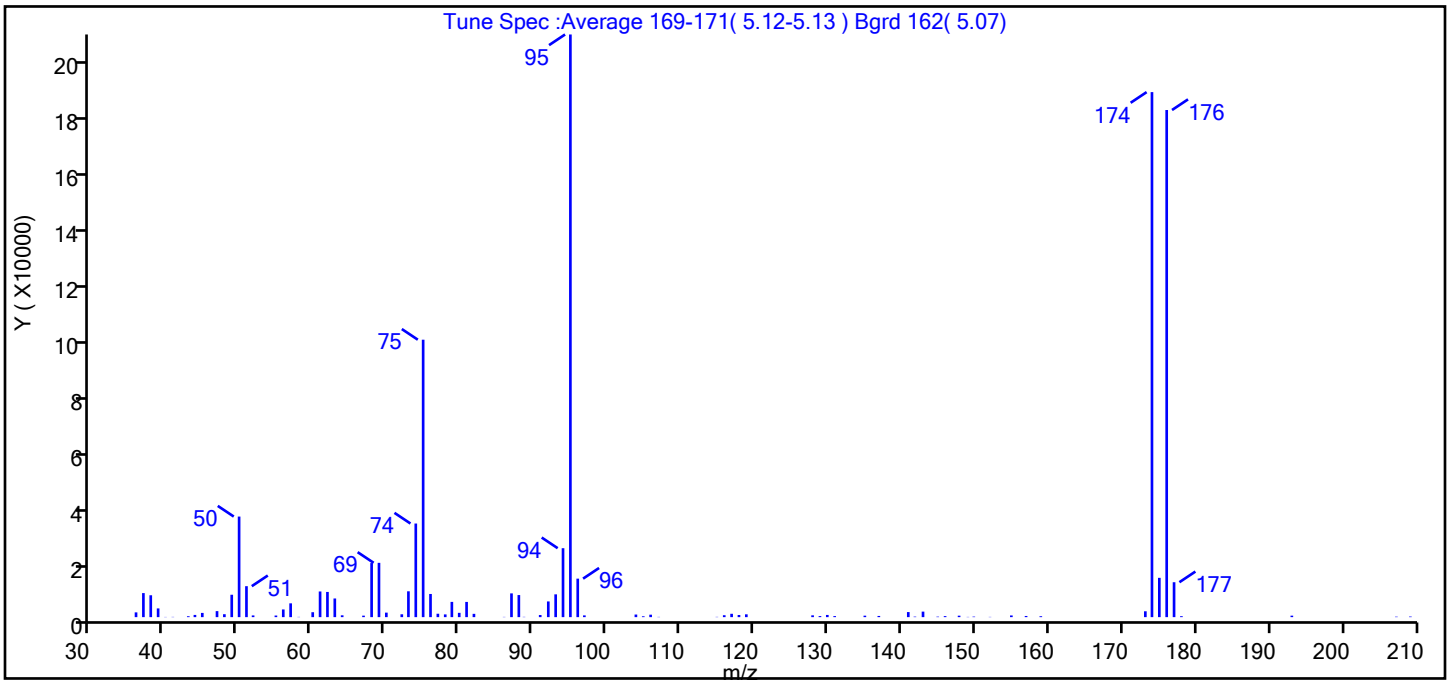
MSV_V_BFB_00008 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11T01.D				
Injection Date:	11-Oct-2022 14:28:30	Instrument ID:	19930		
Lims ID:	bfb				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Tune Method:	BFB Method 8260				

$ 167 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.3
75	30 to 60% of m/z 95	47.6
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	1.0 (1.1)
174	50 to 120% of m/z 95	90.1
175	5 to 9% of m/z 174	6.7 (7.5)
176	Greater than 95% but less than 101% of m/z 174	87.0 (96.6)
177	5 to 9% of m/z 176	6.0 (6.9)

Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11T01.D\8260 25ml HP31.rslt\spectra.d
Injection Date: 11-Oct-2022 14:28:30
Spectrum: Tune Spec :Average 169-171(5.12-5.13) Bgrd 162(5.07)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 86

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1707	63.00	6673	92.00	5616	142.00	183
37.00	8598	64.00	657	93.00	8151	143.00	1976
38.00	7823	67.00	534	94.00	24648	145.00	177
39.00	3121	68.00	19336	95.00	208320	146.00	366
40.00	72	69.00	19416	96.00	13763	148.00	522
41.00	89	70.00	1613	97.00	628	149.00	83
43.00	322	72.00	1025	104.00	932	150.00	190
44.00	793	73.00	9241	105.00	303	152.00	88
45.00	1511	74.00	33472	106.00	880	155.00	604
47.00	2153	75.00	99192	107.00	87	157.00	416
48.00	1050	76.00	8284	115.00	96	159.00	325
49.00	8007	77.00	1222	116.00	688	173.00	2096
50.00	35960	78.00	980	117.00	1199	174.00	187712
51.00	11072	79.00	5454	118.00	768	175.00	14051
52.00	614	80.00	1542	119.00	1009	176.00	181312
55.00	576	81.00	5441	128.00	648	177.00	12485
56.00	2751	82.00	1182	129.00	378	178.00	335
57.00	4937	86.00	85	130.00	784	193.00	531
58.00	87	87.00	8494	131.00	373	207.00	167
60.00	1762	88.00	7893	135.00	525	209.00	209
61.00	9177	89.00	99	137.00	426		
62.00	9010	91.00	756	141.00	1812		

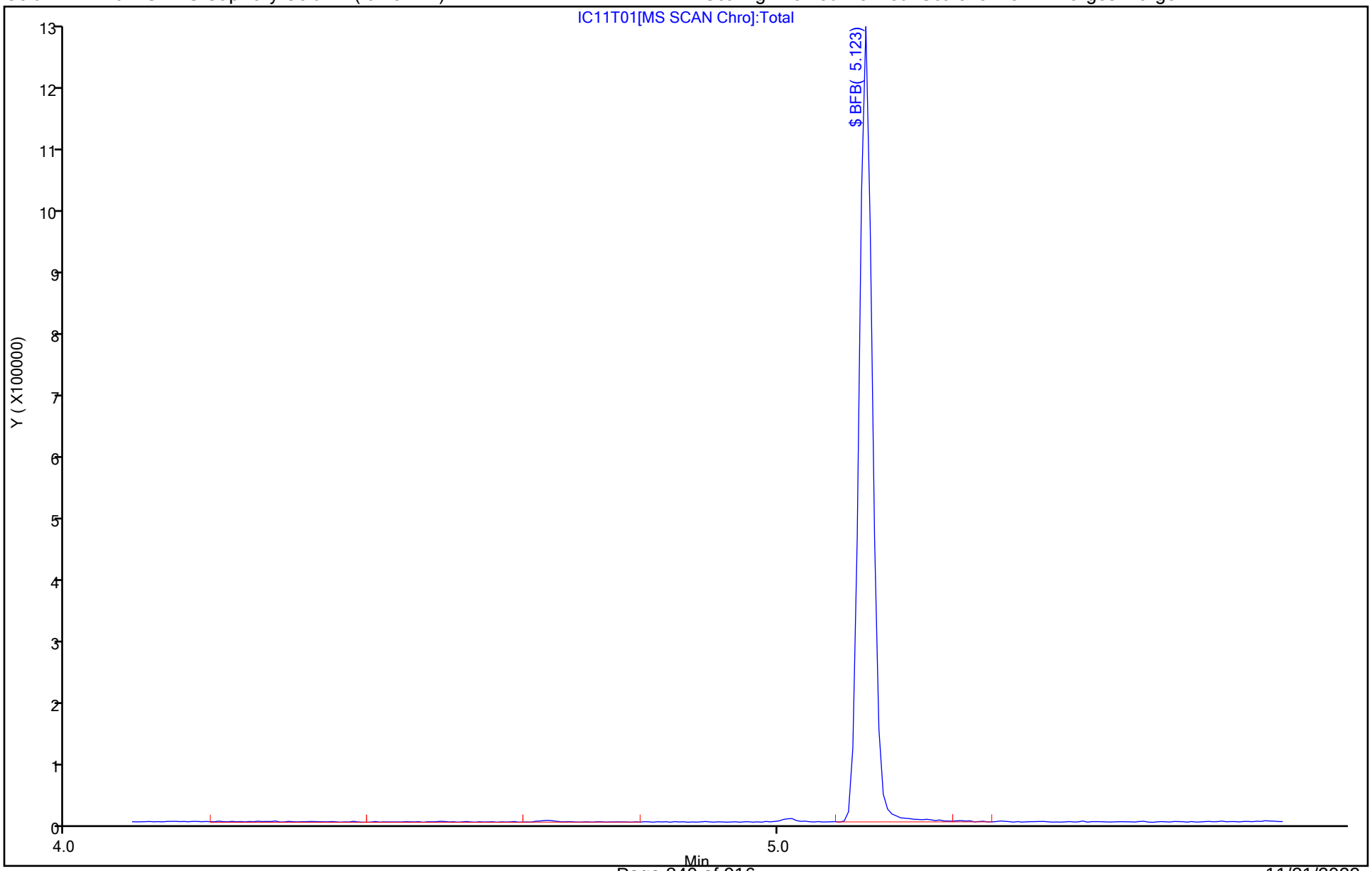
Report Date: 12-Oct-2022 12:43:58 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11T01.D

Injection Date:	11-Oct-2022 14:28:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



11/21/2022
12:36 PM

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08T01.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	08-Nov-2022 10:45:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0070638-001				
Misc. Info.:	BFB				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20221108-70638.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Nov-2022 14:35:52	Calib Date:	11-Oct-2022 20:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1619				
First Level Reviewer: changnoit		Date:	09-Nov-2022 14:35:52		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 167 BFB	95	5.123	5.123	0.000	0	256322	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

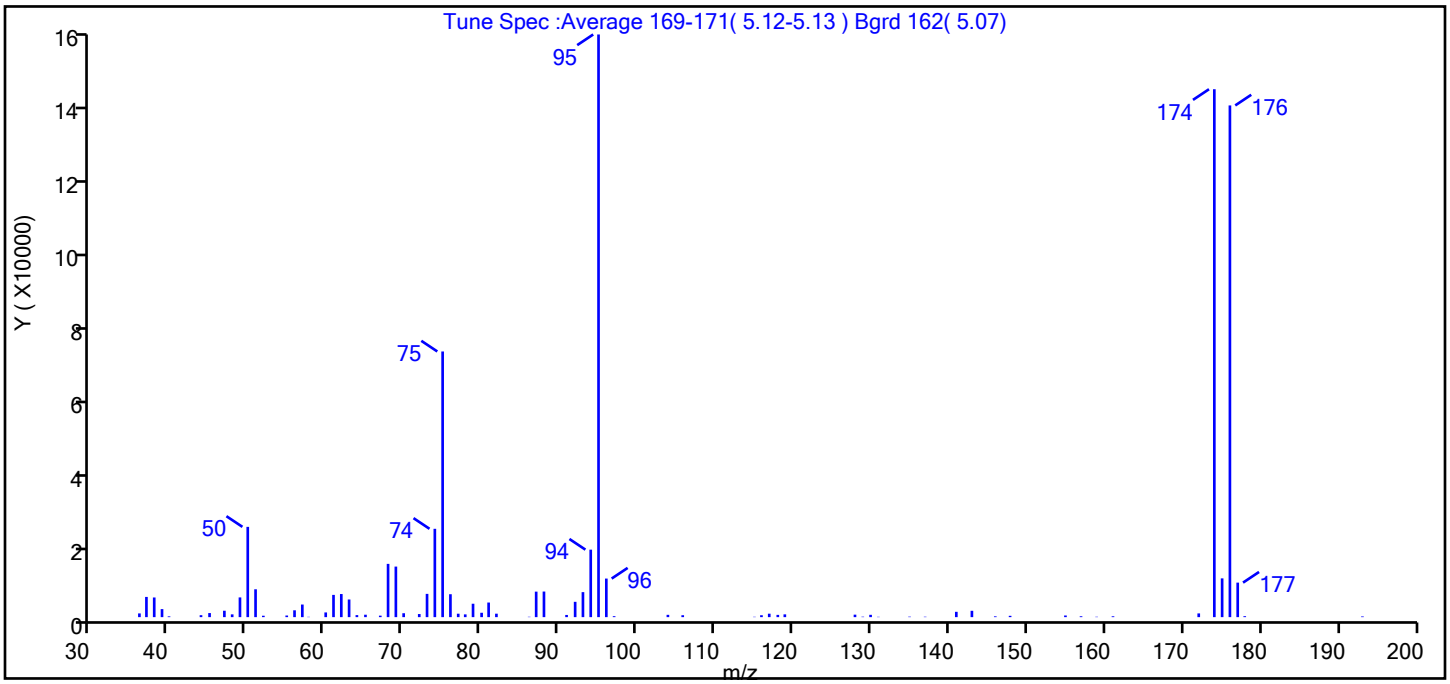
MSV_V_BFB_00008 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08T01.D				
Injection Date:	08-Nov-2022 10:45:30	Instrument ID:	19930		
Lims ID:	BFB				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Tune Method:	BFB Method 8260				

$ 167 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.5
75	30 to 60% of m/z 95	45.6
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	90.6
175	5 to 9% of m/z 174	6.7 (7.3)
176	Greater than 95% but less than 101% of m/z 174	87.8 (96.9)
177	5 to 9% of m/z 176	5.9 (6.7)

Data File: \\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08T01.D\8260 25ml HP31.rslt\spectra.d
Injection Date: 08-Nov-2022 10:45:30
Spectrum: Tune Spec :Average 169-171(5.12-5.13) Bgrd 162(5.07)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 76

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1016	62.00	6295	86.00	100	130.00	635
37.00	5508	63.00	4811	87.00	6949	131.00	88
38.00	5356	64.00	553	88.00	6974	135.00	133
39.00	2188	65.00	661	91.00	597	137.00	114
40.00	211	67.00	405	92.00	4174	141.00	1452
44.00	533	68.00	14511	93.00	6810	143.00	1730
45.00	1112	69.00	13772	94.00	18384	146.00	216
47.00	1747	70.00	1066	95.00	158720	148.00	361
48.00	757	72.00	846	96.00	10507	155.00	450
49.00	5373	73.00	6338	97.00	256	157.00	238
50.00	24592	74.00	24064	104.00	631	159.00	105
51.00	7591	75.00	72368	106.00	524	161.00	232
52.00	384	76.00	6245	115.00	96	172.00	1017
55.00	443	77.00	939	116.00	521	174.00	143808
56.00	1864	78.00	753	117.00	939	175.00	10561
57.00	3437	79.00	3654	118.00	616	176.00	139392
58.00	85	80.00	1192	119.00	759	177.00	9403
60.00	1283	81.00	3979	128.00	677	178.00	258
61.00	6063	82.00	944	129.00	124	193.00	187

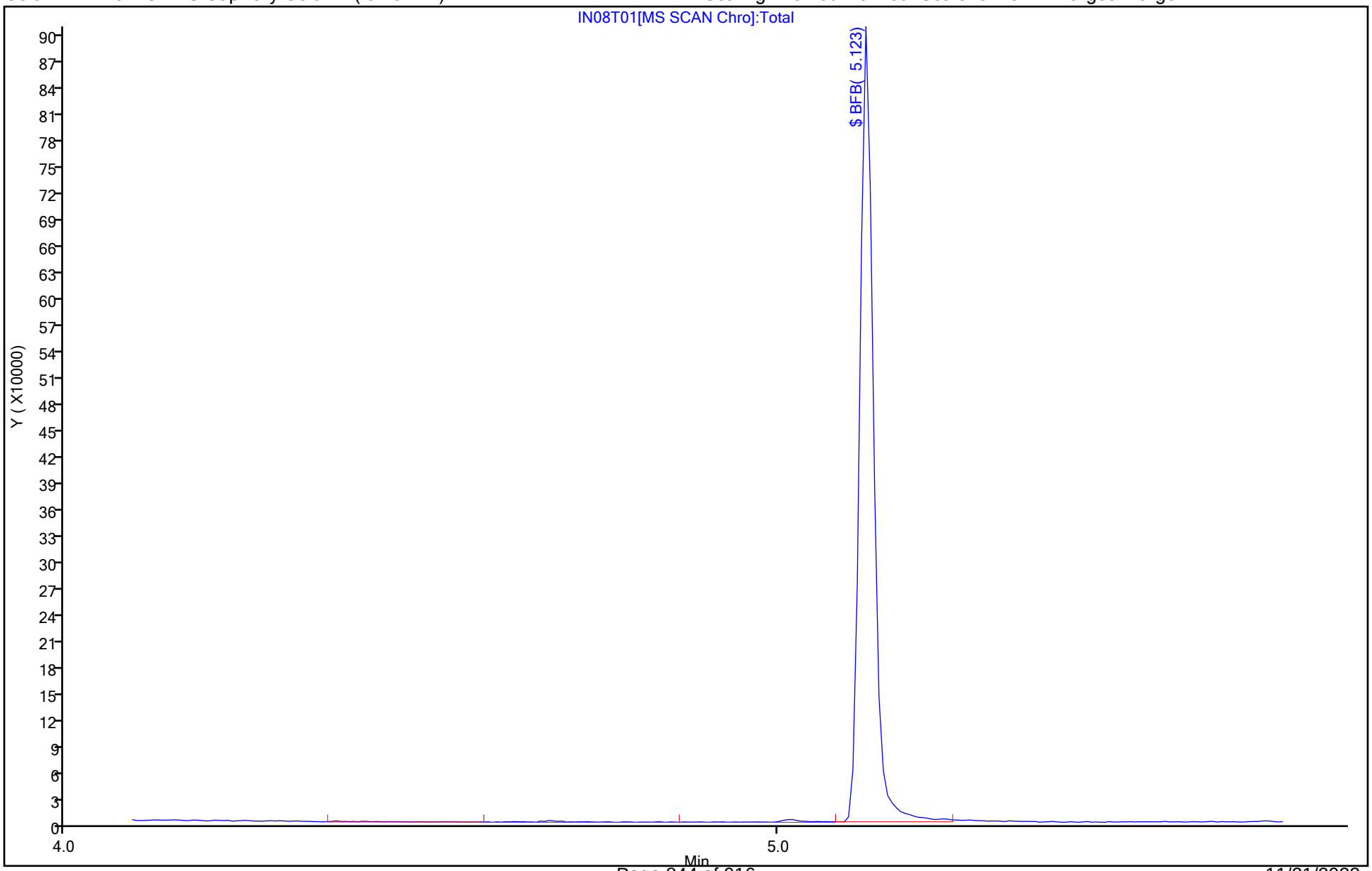
Report Date: 09-Nov-2022 14:35:52 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08T01.D

Injection Date:	08-Nov-2022 10:45:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



11/21/2022
12:36 PM

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-314355/6

Matrix: Water Lab File ID: GN06X05.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 12:37

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-314355/6

Matrix: Water Lab File ID: GN06X05.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 12:37

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 06-Nov-2022 12:37:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070453-006
Misc. Info.: MB
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Nov-2022 15:38:17 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1613

First Level Reviewer: DVW2 Date: 06-Nov-2022 15:36:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.867					ND	
2 Dichlorodifluoromethane	85		1.898					ND	
3 Chlorodifluoromethane	51		1.916					ND	
4 Dimethyl ether	45		1.983					ND	
5 Chloromethane	50		2.087					ND	
6 Vinyl chloride	62		2.203					ND	
7 Butadiene	39		2.215					ND	7
8 2-Chloro-1,1,1-Trifluoroethane	118		2.294					ND	
9 Bromomethane	94		2.526					ND	
10 Chloroethane	64		2.605					ND	
11 Dichlorofluoromethane	67		2.837					ND	
12 Trichlorofluoromethane	101		2.898					ND	
13 Ethyl ether	59		3.129					ND	
14 Ethanol	45		3.190					ND	
16 1,2-Dichloro-1,1,2-trifluoroetha	67		3.233					ND	
17 Acrolein	56		3.300					ND	7
18 1,1-Dichloroethene	96		3.422					ND	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.471					ND	
20 Acetone	43		3.471					ND	7
21 Iodomethane	142		3.611					ND	
22 Ethyl bromide	108		3.635					ND	
24 Isopropyl alcohol	45		3.702					ND	
23 Carbon disulfide	76		3.708					ND	
25 Methyl acetate	43		3.861					ND	
26 Acetonitrile	41		3.873					ND	
27 3-Chloro-1-propene	41		3.885					ND	
29 Methylene Chloride	84		4.062					ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.129	4.135	-0.006	35	127900	50.0	50.0	
31 2-Methyl-2-propanol	59		4.245					ND	
32 Acrylonitrile	53		4.403					ND	
33 Methyl tert-butyl ether	73		4.458					ND	

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
	34 trans-1,2-Dichloroethene	96		4.464				ND		
	35 Hexane	57		4.891				ND		
	36 Vinyl acetate	43		5.123				ND		
	37 1,1-Dichloroethane	63		5.129				ND		
	38 Isopropyl ether	45		5.196				ND		
	39 2-Chloro-1,3-butadiene	53		5.245				ND		
	40 Tert-butyl ethyl ether	59		5.738				ND		
	41 2-Butanone (MEK)	43		5.946				ND		
	42 cis-1,2-Dichloroethene	96		5.976				ND		
	43 2,2-Dichloropropane	77		5.988				ND		7
	44 Ethyl acetate	43		6.007				ND		
	45 Propionitrile	54		6.037				ND		
	46 Methyl acrylate	55		6.141				ND		
S	47 1,2-Dichloroethene, Total	100		6.155				ND		7
	48 Methacrylonitrile	67		6.244				ND		
	49 Chlorobromomethane	128		6.299				ND		
	50 Tetrahydrofuran	71		6.311				ND		
	51 Chloroform	83		6.458				ND		
$	52 Dibromofluoromethane (Surr)	113	6.671	6.671	0.000	94	453822	10.0	10.3	
	53 1,1,1-Trichloroethane	97		6.677				ND		
	54 Cyclohexane	56		6.775				ND		
	56 Carbon tetrachloride	117		6.891				ND		
	57 1,1-Dichloropropene	75		6.891				ND		
	55 1-Chlorobutane	56		6.940				ND		
	58 Isobutyl alcohol	41		7.086				ND		
$	59 1,2-Dichloroethane-d4 (Surr)	102	7.129	7.122	0.007	63	98251	10.0	10.5	
	60 Benzene	78		7.159				ND		
	61 1,2-Dichloroethane	62		7.226				ND		
	62 Isopropyl acetate	43		7.244				ND		
	63 Tert-amyl methyl ether	73		7.354				ND		
*	64 Fluorobenzene (IS)	96	7.568	7.567	0.001	99	1782930	10.0	10.0	
	65 n-Heptane	43		7.580				ND		
	66 t-Amyl alcohol	73		7.842				ND		
	67 n-Butanol	56		7.976				ND		
	68 Trichloroethene	95		8.043				ND		
	69 Methylcyclohexane	83		8.354				ND		
	70 1,2-Dichloropropane	63		8.378				ND		
	71 2-ethoxy-2-methyl butane	87		8.390				ND		
	72 Methyl methacrylate	69		8.470				ND		
	73 Dibromomethane	93		8.488				ND		
	74 1,4-Dioxane	88		8.506				ND		
	75 n-Propyl acetate	61		8.549				ND		
	76 Dichlorobromomethane	83		8.726				ND		
	77 2-Nitropropane	41		9.006				ND		
	78 2-Chloroethyl vinyl ether	63		9.098				ND		
	79 1-Bromo-2-chloroethane	63		9.116				ND		
	80 Chloroacetonitrile	75		9.189				ND		
	81 cis-1,3-Dichloropropene	75		9.280				ND		
	82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND		
$	83 Toluene-d8 (Surr)	98	9.598	9.597	0.001	93	1784069	10.0	10.1	
	84 Toluene	92		9.671				ND		
	85 trans-1,3-Dichloropropene	75		9.939				ND		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 Ethyl methacrylate	69		10.000					ND	
S 105 1,3-Dichloropropene, Total	100		10.060					ND	7
106 1,1,2-Trichloroethane	97		10.140					ND	
107 Tetrachloroethene	166		10.231					ND	
108 1,3-Dichloropropane	76		10.305					ND	
109 2-Hexanone	43		10.366					ND	
110 n-Butyl acetate	43		10.487					ND	
111 Chlorodibromomethane	129		10.524					ND	
112 Ethylene Dibromide	107		10.634					ND	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	84	1373208	10.0	10.0	
114 1-Chlorohexane	91		11.079					ND	7
115 Chlorobenzene	112		11.097					ND	
117 1,1,1,2-Tetrachloroethane	131		11.176					ND	
116 Ethylbenzene	91		11.182					ND	
S 118 Xylenes, Total	106		11.245					ND	7
119 m-Xylene & p-Xylene	106		11.298					ND	
120 o-Xylene	106		11.628					ND	
121 Styrene	104		11.640					ND	
122 Bromoform	173		11.798					ND	
123 Isopropylbenzene	105		11.926					ND	
124 cis-1,4-Dichloro-2-butene	88		11.987					ND	
125 Cyclohexanone	55		12.018					ND	7
$ 126 4-Bromofluorobenzene (Surr)	95	12.067	12.066	0.001	94	629067	10.0	9.61	
127 1,1,2,2-Tetrachloroethane	83		12.176					ND	
128 Bromobenzene	156		12.182					ND	
129 trans-1,4-Dichloro-2-butene	53		12.201					ND	
130 1,2,3-Trichloropropane	110		12.219					ND	
131 N-Propylbenzene	91		12.255					ND	
132 2-Chlorotoluene	126		12.329					ND	
133 1,3,5-Trimethylbenzene	105		12.390					ND	
134 4-Chlorotoluene	126		12.426					ND	
135 tert-Butylbenzene	134		12.633					ND	
136 Pentachloroethane	167		12.664					ND	
137 1,2,4-Trimethylbenzene	105		12.676					ND	
138 sec-Butylbenzene	105		12.792					ND	
139 1,3-Dichlorobenzene	146		12.889					ND	7
140 4-Isopropyltoluene	119		12.902					ND	
* 141 1,4-Dichlorobenzene-d4	152	12.945	12.944	0.000	94	795991	10.0	10.0	
142 1,4-Dichlorobenzene	146		12.963					ND	7
143 1,2,3-Trimethylbenzene	120		12.975					ND	7
144 Benzyl chloride	126		13.042					ND	
145 p-Diethylbenzene	119		13.103					ND	
146 n-Butylbenzene	92		13.188					ND	
147 1,2-Dichlorobenzene	146		13.225					ND	
148 Hexachloroethane	201		13.499					ND	
149 1,2-Dibromo-3-Chloropropane	155		13.761					ND	
150 1,3,5-Trichlorobenzene	180		13.883					ND	7
151 1,2,4-Trichlorobenzene	180		14.304					ND	
152 Hexachlorobutadiene	225		14.389					ND	
153 Naphthalene	128		14.487					ND	7
154 1,2,3-Trichlorobenzene	180		14.627					ND	
155 2-Methylnaphthalene	142	15.243	15.230	0.013	85	3206		0.0587	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
156 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
162 1-Bromo-3-Chloropropane	1		0.000					ND	
163 1-Chloropropane	1		0.000					ND	
164 2-Bromo-1-chloropropane	1		0.000					ND	
165 Dodecane	57		0.000					ND	
207 1,1,2-Trifluoroethane TIC	1		0.000					ND	
157 1,1-Dichloroacetone	1		0.000					ND	
158 tert-Butyl Formate	1		0.000					ND	
159 Methylal	1		0.000					ND	
160 n-Decane	57		0.000					ND	
161 Propene oxide	1		0.000					ND	
202 Fluoromethane TIC	1		0.000					ND	
203 1,1,1-Trifluoro-2,2-dichloroetha	1		0.000					ND	
204 1,2-Dichlorofluoroethane TIC	1		0.000					ND	
205 1,1,1-Trichloro-2,2,2-trifluoroe	1		0.000					ND	
206 Vinyl Fluoride TIC	1		0.000					ND	
197 Chlorofluoromethane TIC	1		0.000					ND	
198 Dichloro-1,1,2,2-tetrafluoroetha	1		0.000					ND	
199 1-Chloro-1,1-difluoroethane TIC	1		0.000					ND	
200 Ethyl ether TIC	1		0.000					ND	
201 Freon 115 TIC	1		0.000					ND	
166 Pentane	43		2.928					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_29_826ISS_00039 Amount Added: 1.00 Units: uL Run Reagent

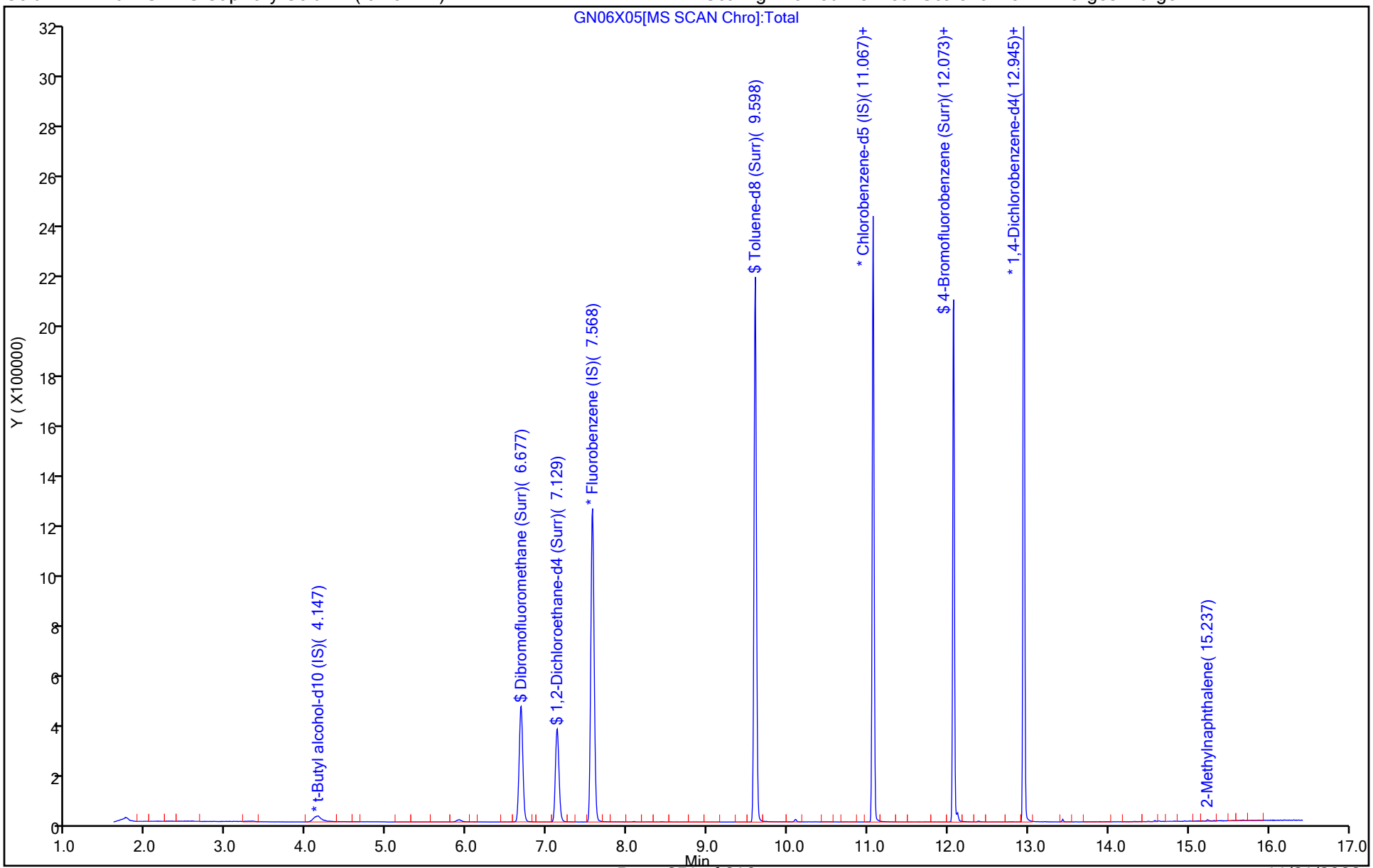
Report Date: 06-Nov-2022 15:38:27 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X05.D

Injection Date:	06-Nov-2022 12:37:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



11/21/2022
12:36 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X05.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	06-Nov-2022 12:37:30	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0070453-006				
Misc. Info.:	MB				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Nov-2022 15:38:17	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1613				

First Level Reviewer: DVW2 Date: 06-Nov-2022 15:36:42

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	102.52
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	104.51
$ 83 Toluene-d8 (Surr)	10.0	10.1	101.45
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.61	96.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-315144/10

Matrix: Water Lab File ID: IN08X09.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 11/08/2022 13:48

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 315144 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-315144/10

Matrix: Water Lab File ID: IN08X09.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 11/08/2022 13:48

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 315144 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08X09.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 08-Nov-2022 13:48:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070638-010
Misc. Info.: MB
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20221108-70638.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 09-Nov-2022 14:36:37 Calib Date: 11-Oct-2022 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1619

First Level Reviewer: DVW2 Date: 08-Nov-2022 14:08:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.928					ND	
2 Chlorodifluoromethane	51		1.946					ND	
3 Dimethyl ether	45		2.013					ND	
4 Chloromethane	50		2.129					ND	
5 Vinyl chloride	62		2.233					ND	
6 Butadiene	39		2.251					ND	
7 Bromomethane	94		2.568					ND	
8 Chloroethane	64		2.654					ND	
9 Dichlorofluoromethane	67		2.885					ND	
10 Trichlorofluoromethane	101		2.959					ND	
11 Ethyl ether	59		3.190					ND	
13 1,2-Dichloro-1,1,2-trifluoroetha	67		3.282					ND	
14 Acrolein	56		3.361					ND	
15 1,1-Dichloroethene	96		3.507					ND	
16 Acetone	43		3.532					ND	7
17 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.544					ND	
18 Iodomethane	142		3.696					ND	
19 Ethyl bromide	108		3.727					ND	
20 Carbon disulfide	76		3.800					ND	
21 Acetonitrile	41		3.897					ND	
23 Methyl acetate	43		3.946					ND	
24 3-Chloro-1-propene	41		3.971					ND	
25 Methylene Chloride	84		4.160					ND	
* 26 t-Butyl alcohol-d10 (IS)	65	4.172	4.166	0.006	98	137637	50.0	50.0	
27 2-Methyl-2-propanol	59		4.288					ND	
28 Acrylonitrile	53		4.483					ND	
29 Methyl tert-butyl ether	73		4.562					ND	
30 trans-1,2-Dichloroethene	96		4.568					ND	
31 Hexane	57		4.995					ND	
33 Vinyl acetate	43		5.214					ND	
32 1,1-Dichloroethane	63		5.226					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Isopropyl ether	45		5.281					ND	
36 2-Chloro-1,3-butadiene	53		5.330					ND	
37 Tert-butyl ethyl ether	59		5.818					ND	
38 2-Butanone (MEK)	43		6.019					ND	
39 cis-1,2-Dichloroethene	96		6.049					ND	
40 2,2-Dichloropropane	77		6.068					ND	
42 Ethyl acetate	43		6.086					ND	
43 Propionitrile	54		6.104					ND	
S 41 1,2-Dichloroethene, Total	100		6.155					ND	7
44 Methyl acrylate	55		6.220					ND	
45 Methacrylonitrile	67		6.324					ND	
46 Chlorobromomethane	128		6.379					ND	
47 Tetrahydrofuran	71		6.397					ND	
48 Chloroform	83		6.531					ND	
$ 49 Dibromofluoromethane (Surr)	113	6.744	6.751	-0.007	94	405241	10.0	9.79	
50 1,1,1-Trichloroethane	97		6.757					ND	
51 Cyclohexane	56		6.860					ND	
53 1,1-Dichloropropene	75		6.970					ND	
54 Carbon tetrachloride	117		6.976					ND	
52 1-Chlorobutane	56		7.019					ND	
55 Isobutyl alcohol	41		7.116					ND	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.196	7.202	-0.006	97	86386	10.0	10.5	
57 Benzene	78		7.232					ND	
58 1,2-Dichloroethane	62		7.299					ND	
59 Isopropyl acetate	43		7.305					ND	
60 Tert-amyl methyl ether	73		7.421					ND	
* 61 Fluorobenzene (IS)	96	7.628	7.635	-0.006	99	1640925	10.0	10.0	
62 n-Heptane	43		7.647					ND	7
63 n-Butanol	56		7.994					ND	
64 Trichloroethene	95		8.110					ND	
65 Methylcyclohexane	83		8.421					ND	
66 1,2-Dichloropropane	63		8.439					ND	
67 Methyl methacrylate	69		8.525					ND	
68 1,4-Dioxane	88		8.525					ND	
69 Dibromomethane	93		8.549					ND	
70 n-Propyl acetate	43		8.604					ND	
71 Dichlorobromomethane	83		8.787					ND	
72 2-Nitropropane	41		9.049					ND	
73 2-Chloroethyl vinyl ether	63		9.152					ND	
75 1-Bromo-2-chloroethane	63		9.177					ND	
74 Chloroacetonitrile	75		9.226					ND	
76 cis-1,3-Dichloropropene	75		9.335					ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.500					ND	
$ 78 Toluene-d8 (Surr)	98	9.640	9.646	-0.006	93	1640072	10.0	9.73	
79 Toluene	92		9.719					ND	
97 trans-1,3-Dichloropropene	75		9.976					ND	
99 Ethyl methacrylate	69		10.036					ND	
S 98 1,3-Dichloropropene, Total	100		10.060					ND	7
100 1,1,2-Trichloroethane	97		10.183					ND	
101 Tetrachloroethene	166		10.274					ND	
102 1,3-Dichloropropane	76		10.341					ND	
103 2-Hexanone	43		10.396					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 n-Butyl acetate	43		10.518				ND		
105 Chlorodibromomethane	129		10.561				ND		
106 Ethylene Dibromide	107		10.671				ND		
* 107 Chlorobenzene-d5 (IS)	117	11.103	11.103	0.000	84	1274271	10.0	10.0	
108 1-Chlorohexane	91		11.109				ND		7
109 Chlorobenzene	112		11.128				ND		
111 1,1,1,2-Tetrachloroethane	131		11.213				ND		
112 Ethylbenzene	91		11.213				ND		
S 110 Xylenes, Total	106		11.245				ND		7
113 m-Xylene & p-Xylene	106		11.329				ND		
114 o-Xylene	106		11.658				ND		
115 Styrene	104		11.676				ND		
116 Bromoform	173		11.835				ND		
117 Isopropylbenzene	105		11.957				ND		
118 cis-1,4-Dichloro-2-butene	88		12.005				ND		
119 Cyclohexanone	55		12.036				ND		
$ 120 4-Bromofluorobenzene (Surr)	95	12.103	12.103	0.000	94	585141	10.0	9.38	
121 1,1,2,2-Tetrachloroethane	83		12.201				ND		
122 Bromobenzene	156		12.219				ND		
123 trans-1,4-Dichloro-2-butene	53		12.225				ND		
124 1,2,3-Trichloropropane	110		12.249				ND		
125 N-Propylbenzene	91		12.286				ND		
126 2-Chlorotoluene	126		12.365				ND		
127 1,3,5-Trimethylbenzene	105		12.426				ND		
128 4-Chlorotoluene	126		12.457				ND		
129 tert-Butylbenzene	134		12.664				ND		
130 Pentachloroethane	167		12.701				ND		
131 1,2,4-Trimethylbenzene	105		12.707				ND		
132 sec-Butylbenzene	105		12.829				ND		
133 1,3-Dichlorobenzene	146		12.932				ND		
134 4-Isopropyltoluene	119		12.938				ND		
* 135 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	94	719211	10.0	10.0	
136 1,4-Dichlorobenzene	146		12.999				ND		7
137 1,2,3-Trimethylbenzene	120		13.012				ND		7
138 Benzyl chloride	126		13.079				ND		
139 n-Butylbenzene	92		13.231				ND		
140 1,2-Dichlorobenzene	146		13.261				ND		
141 Hexachloroethane	117		13.542				ND		
142 1,2-Dibromo-3-Chloropropane	155		13.804				ND		
143 1,3,5-Trichlorobenzene	180		13.932				ND		7
144 1,2,4-Trichlorobenzene	180		14.353				ND		
145 Hexachlorobutadiene	225		14.432				ND		7
146 Naphthalene	128		14.536				ND		7
147 1,2,3-Trichlorobenzene	180		14.676				ND		
148 Dodecane	57		0.000				ND		
223 1,1,2-Trifluoroethane TIC	1		0.000				ND		
161 Pentane	43		0.000				ND		
149 2-Chloro-1,1,1-Trifluoroethane	1		0.000				ND		
150 2-ethoxy-2-methyl butane	1		0.000				ND		
151 1,1-Dichloroacetone	1		0.000				ND		
152 n-Decane	57		0.000				ND		
153 1-Bromo-3-Chloropropane	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
154 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
155 2-Methylnaphthalene	142		0.000					ND	
156 p-Diethylbenzene	1		0.000					ND	
157 t-Amyl alcohol	1		0.000					ND	
158 Methylal	1		0.000					ND	
159 tert-Butyl Formate	1		0.000					ND	
160 2-Bromo-1-chloropropane	1		0.000					ND	
162 Chlorotrifluoroethene	1		0.000					ND	
222 Vinyl Fluoride TIC	1		0.000					ND	
164 1-Chloropropane	1		0.000					ND	
165 Isopropyl alcohol	45		0.000					ND	
213 Chlorofluoromethane TIC	1		0.000					ND	
214 Dichloro-1,1,2,2-tetrafluoretha	1		0.000					ND	
215 1-Chloro-1,1-difluoroethane TIC	1		0.000					ND	
216 Ethyl ether TIC	1		0.000					ND	
217 Freon 115 TIC	1		0.000					ND	
218 Fluoromethane TIC	1		0.000					ND	
219 1,1,1-Trifluoro-2,2-dichloroetha	1		0.000					ND	
220 1,2-Dichlorofluoroethane TIC	1		0.000					ND	
221 1,1,1-Trichloro-2,2,2-trifluoroe	1		0.000					ND	
163 Propene oxide	1		0.000					ND	
166 Ethanol	45		3.269					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

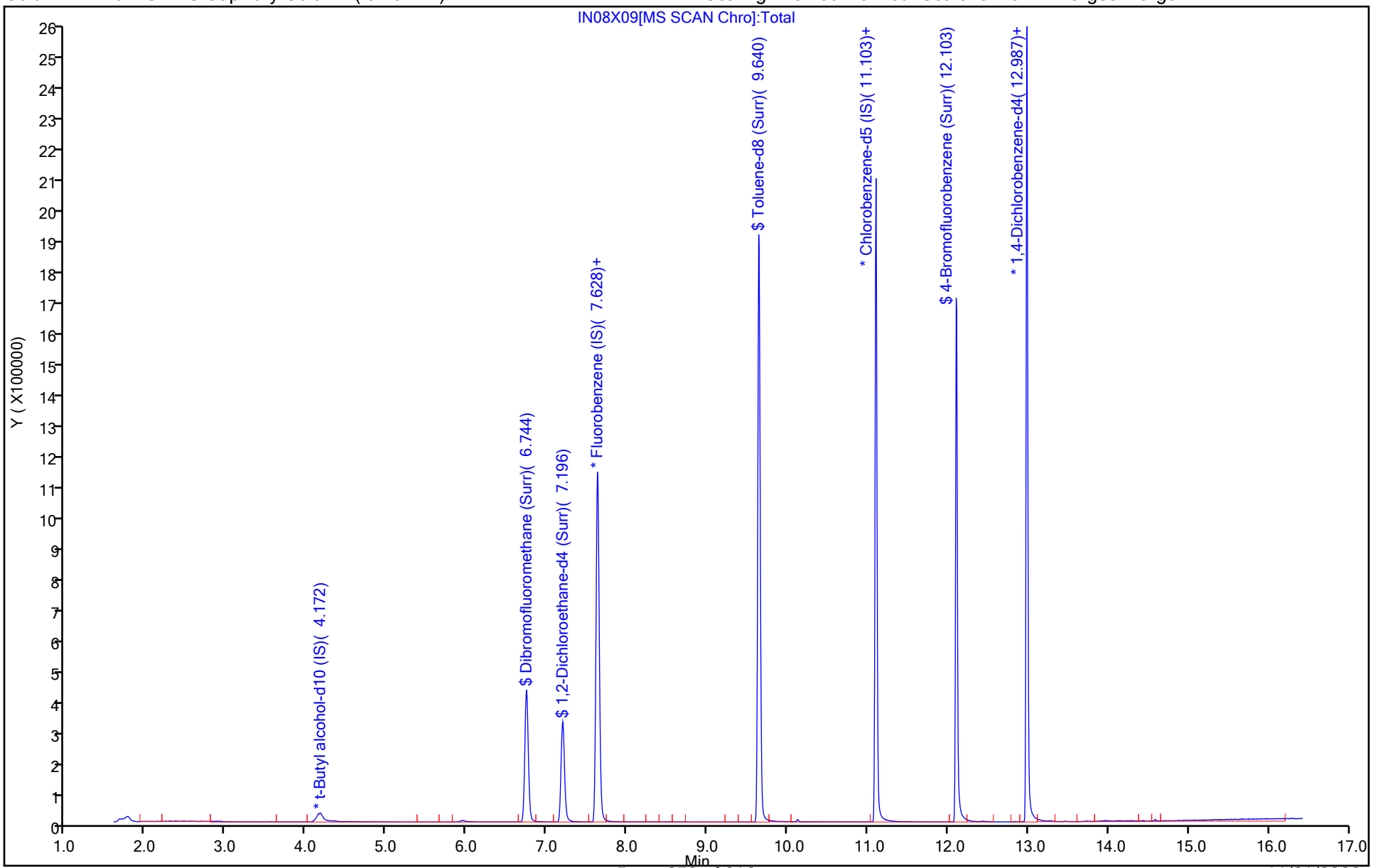
MSV_LLcentISS_00005 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Nov-2022 14:40:29 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08X09.D				
Injection Date:	08-Nov-2022 13:48:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	MB			Worklist Smp#:	10
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



11/21/2022
12:36 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08X09.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 08-Nov-2022 13:48:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070638-010
Misc. Info.: MB
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20221108-70638.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 09-Nov-2022 14:36:37 Calib Date: 11-Oct-2022 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1619

First Level Reviewer: DVW2 Date: 08-Nov-2022 14:08:56

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	9.79	97.87
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.09
$ 78 Toluene-d8 (Surr)	10.0	9.73	97.34
$ 120 4-Bromofluorobenzene (Surr)	10.0	9.38	93.84

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-314355/4

Matrix: Water Lab File ID: GN06X03.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 11:53

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.46		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.13		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.44		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.29		0.50	0.080
75-34-3	1,1-Dichloroethane	5.08		0.50	0.10
75-35-4	1,1-Dichloroethene	5.11		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.09		0.50	0.080
107-06-2	1,2-Dichloroethane	4.69		0.50	0.070
78-87-5	1,2-Dichloropropane	5.29		0.50	0.10
78-93-3	2-Butanone (MEK)	65.5		5.0	1.0
591-78-6	2-Hexanone	62.8		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	62.4		5.0	1.0
67-64-1	Acetone	60.4		5.0	1.0
71-43-2	Benzene	5.18		0.50	0.10
74-97-5	Bromochloromethane	5.16		0.50	0.080
75-27-4	Bromodichloromethane	5.49		0.50	0.080
75-25-2	Bromoform	6.68		1.0	0.30
74-83-9	Bromomethane	4.18		0.50	0.10
75-15-0	Carbon disulfide	6.80		1.0	0.10
56-23-5	Carbon tetrachloride	5.42		0.50	0.10
108-90-7	Chlorobenzene	4.96		0.50	0.070
75-00-3	Chloroethane	4.60		0.50	0.10
67-66-3	Chloroform	5.08		0.50	0.090
74-87-3	Chloromethane	4.63		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	5.19		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.30		0.50	0.10
124-48-1	Dibromochloromethane	5.91		0.50	0.080
100-41-4	Ethylbenzene	5.07		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.06		0.50	0.080
75-09-2	Methylene Chloride	5.23		0.50	0.10
100-42-5	Styrene	4.94		0.50	0.070
127-18-4	Tetrachloroethene	4.86		0.50	0.20
108-88-3	Toluene	5.08		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-314355/4

Matrix: Water Lab File ID: GN06X03.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 11:53

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.02		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.76		0.50	0.080
79-01-6	Trichloroethene	4.88		0.50	0.080
75-01-4	Vinyl chloride	4.42		0.50	0.10
1330-20-7	Xylenes, Total	15.2		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		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\16334\20221106-70453.b\GN06X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 06-Nov-2022 11:53:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070453-004
Misc. Info.: LCS
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Nov-2022 15:38:17 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1613

First Level Reviewer: DVW2 Date: 06-Nov-2022 12:32:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.898	1.898	0.000	99	189587	5.00	3.96	
5 Chloromethane	50	2.093	2.087	0.006	99	250374	5.00	4.63	
6 Vinyl chloride	62	2.209	2.203	0.006	98	244112	5.00	4.42	
7 Butadiene	39	2.215	2.215	0.000	92	278863	5.00	5.31	
9 Bromomethane	94	2.526	2.526	0.000	91	181996	5.00	4.18	
10 Chloroethane	64	2.611	2.605	0.006	100	151401	5.00	4.60	
11 Dichlorofluoromethane	67	2.843	2.837	0.006	97	376583	5.00	4.68	
12 Trichlorofluoromethane	101	2.904	2.898	0.006	98	350036	5.00	4.61	
13 Ethyl ether	59	3.129	3.129	0.000	90	176206	4.98	5.00	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.227	3.233	-0.006	95	240282	5.00	4.48	
17 Acrolein	56	3.306	3.300	0.006	100	195463	37.5	34.9	
18 1,1-Dichloroethene	96	3.428	3.422	0.006	96	203257	5.00	5.11	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.471	3.471	0.000	89	212579	5.00	5.49	
20 Acetone	43	3.477	3.471	0.006	100	370611	62.5	60.4	
21 Iodomethane	142	3.611	3.611	0.000	99	379347	5.00	5.04	
22 Ethyl bromide	108		3.635				ND	ND	
24 Isopropyl alcohol	45	3.702	3.702	0.000	96	40878	37.5	40.1	
23 Carbon disulfide	76	3.714	3.708	0.006	99	659671	5.00	6.80	
25 Methyl acetate	43	3.855	3.861	-0.006	98	90100	5.00	4.73	
27 3-Chloro-1-propene	41	3.891	3.885	0.006	93	283275	5.00	5.28	
29 Methylene Chloride	84	4.068	4.062	0.006	89	230187	5.00	5.23	
* 30 t-Butyl alcohol-d10 (IS)	65	4.147	4.135	0.012	86	121052	50.0	50.0	
31 2-Methyl-2-propanol	59	4.263	4.245	0.018	99	117740	50.0	54.9	
32 Acrylonitrile	53	4.409	4.403	0.006	99	233285	25.0	28.7	
33 Methyl tert-butyl ether	73	4.458	4.458	0.000	94	574373	5.00	5.06	
34 trans-1,2-Dichloroethene	96	4.470	4.464	0.006	98	232888	5.00	5.02	
35 Hexane	57	4.897	4.891	0.006	90	275846	5.00	5.44	
37 1,1-Dichloroethane	63	5.141	5.129	0.012	96	383063	5.00	5.08	
38 Isopropyl ether	45	5.196	5.196	0.000	93	644854	5.00	5.17	
39 2-Chloro-1,3-butadiene	53	5.245	5.245	0.000	89	306938	5.00	5.11	
40 Tert-butyl ethyl ether	59	5.732	5.738	-0.006	97	649409	5.00	5.06	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.946	5.946	0.000	99	794544	62.5	65.5	
42 cis-1,2-Dichloroethene	96	5.976	5.976	0.000	81	263376	5.00	5.19	
43 2,2-Dichloropropane	77	5.988	5.988	0.000	85	347534	5.00	5.70	
45 Propionitrile	54	6.043	6.037	0.006	98	121979	37.5	42.5	
48 Methacrylonitrile	67	6.251	6.244	0.007	89	499472	37.5	38.6	
49 Chlorobromomethane	128	6.299	6.299	0.000	86	125519	5.00	5.16	
50 Tetrahydrofuran	71	6.312	6.311	0.001	77	100048	25.0	27.8	
51 Chloroform	83	6.464	6.458	0.006	92	410887	5.00	5.08	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.671	0.000	94	458692	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.690	6.677	0.013	97	361915	5.00	5.13	
54 Cyclohexane	56	6.781	6.775	0.006	88	339052	5.00	5.29	
56 Carbon tetrachloride	117	6.897	6.891	0.006	96	329113	5.00	5.42	
57 1,1-Dichloropropene	75	6.897	6.891	0.006	97	317913	5.00	5.07	
58 Isobutyl alcohol	41	7.092	7.086	0.006	93	99303	125.0	150.0	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.122	0.006	89	99921	10.0	10.3	
60 Benzene	78	7.153	7.159	-0.006	97	957417	5.00	5.18	
61 1,2-Dichloroethane	62	7.232	7.226	0.006	97	247145	5.00	4.69	
63 Tert-amyl methyl ether	73	7.354	7.354	0.000	99	630822	5.00	5.18	
* 64 Fluorobenzene (IS)	96	7.567	7.567	0.000	99	1845608	10.0	10.0	
65 n-Heptane	43	7.580	7.580	0.000	90	288936	5.00	5.45	
67 n-Butanol	56	7.982	7.976	0.006	87	197258	250.0	315.1	
68 Trichloroethene	95	8.049	8.043	0.006	96	251785	5.00	4.88	
69 Methylcyclohexane	83	8.354	8.354	0.000	91	396291	5.00	5.16	
70 1,2-Dichloropropane	63	8.378	8.378	0.000	97	238950	5.00	5.29	
71 2-ethoxy-2-methyl butane	87	8.397	8.390	0.006	96	358341	5.00	4.95	
72 Methyl methacrylate	69	8.470	8.470	0.000	88	126696	5.00	5.03	
73 Dibromomethane	93	8.488	8.488	0.000	94	128772	5.00	5.19	
74 1,4-Dioxane	88	8.500	8.506	-0.006	81	21899	125.0	160.8	
76 Dichlorobromomethane	83	8.726	8.726	0.000	99	298320	5.00	5.49	
77 2-Nitropropane	41	9.012	9.006	0.006	99	30318	5.00	5.35	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	99	247622	5.00	5.06	
81 cis-1,3-Dichloropropene	75	9.280	9.280	0.000	97	358795	5.00	5.30	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	95	1990057	62.5	62.4	
$ 83 Toluene-d8 (Surr)	98	9.597	9.597	0.000	93	1857674	10.0	10.2	
84 Toluene	92	9.677	9.671	0.006	98	624548	5.00	5.08	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	91	315513	5.00	5.76	
104 Ethyl methacrylate	69	10.006	10.000	0.006	87	250951	5.00	5.32	
106 1,1,2-Trichloroethane	97	10.146	10.140	0.006	90	191345	5.00	5.29	
107 Tetrachloroethene	166	10.225	10.231	-0.006	97	300593	5.00	4.86	
108 1,3-Dichloropropane	76	10.311	10.305	0.006	88	311998	5.00	5.26	
109 2-Hexanone	43	10.366	10.366	0.000	95	1460056	62.5	62.8	
111 Chlorodibromomethane	129	10.524	10.524	0.000	89	233779	5.00	5.91	
112 Ethylene Dibromide	107	10.634	10.634	0.000	98	180919	5.00	5.09	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	84	1416576	10.0	10.0	
114 1-Chlorohexane	91	11.079	11.079	0.000	95	332534	5.00	4.83	
115 Chlorobenzene	112	11.091	11.097	-0.006	96	737454	5.00	4.96	
117 1,1,1,2-Tetrachloroethane	131	11.176	11.176	0.000	96	260483	5.00	5.46	
116 Ethylbenzene	91	11.183	11.182	0.001	98	1208776	5.00	5.07	
119 m-Xylene & p-Xylene	106	11.298	11.298	0.000	89	974347	10.0	10.2	
120 o-Xylene	106	11.628	11.628	0.000	95	470700	5.00	4.96	
121 Styrene	104	11.640	11.640	0.000	95	793935	5.00	4.94	
122 Bromoform	173	11.798	11.798	0.000	98	148664	5.00	6.68	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
123 Isopropylbenzene	105	11.926	11.926	0.000	95	1221692	5.00	5.04	
$ 126 4-Bromofluorobenzene (Surr)	95	12.067	12.066	0.001	94	671309	10.0	9.94	
127 1,1,2,2-Tetrachloroethane	83	12.176	12.176	0.000	94	247712	5.00	5.44	
128 Bromobenzene	156	12.188	12.182	0.006	95	332874	5.00	5.07	
129 trans-1,4-Dichloro-2-butene	53	12.201	12.201	0.000	90	226962	25.0	19.3	
130 1,2,3-Trichloropropane	110	12.219	12.219	0.000	82	68143	5.00	5.21	
131 N-Propylbenzene	91	12.256	12.255	0.001	99	1455797	5.00	5.08	
132 2-Chlorotoluene	126	12.329	12.329	0.000	97	309359	5.00	4.91	
133 1,3,5-Trimethylbenzene	105	12.390	12.390	0.000	94	1059992	5.00	4.94	
134 4-Chlorotoluene	126	12.426	12.426	0.000	96	326826	5.00	4.96	
135 tert-Butylbenzene	134	12.633	12.633	0.000	92	232438	5.00	4.70	
137 1,2,4-Trimethylbenzene	105	12.676	12.676	0.000	97	1107072	5.00	5.00	
138 sec-Butylbenzene	105	12.792	12.792	0.000	94	1369123	5.00	5.08	
139 1,3-Dichlorobenzene	146	12.890	12.889	0.001	98	657315	5.00	4.85	
140 4-Isopropyltoluene	119	12.902	12.902	0.000	97	1260216	5.00	5.13	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	93	852457	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.963	12.963	0.000	95	681303	5.00	4.80	
143 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	98	505614	5.00	4.98	
144 Benzyl chloride	126	13.042	13.042	0.000	98	103089	5.00	5.84	
145 p-Diethylbenzene	119	13.103	13.103	0.000	93	738553	5.00	5.05	
146 n-Butylbenzene	92	13.194	13.188	0.006	94	601225	5.00	5.01	
147 1,2-Dichlorobenzene	146	13.225	13.225	0.000	99	624719	5.00	4.91	
149 1,2-Dibromo-3-Chloropropane	155	13.761	13.761	0.000	89	35860	5.00	5.35	
150 1,3,5-Trichlorobenzene	180	13.889	13.883	0.006	98	559334	5.00	5.12	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	501435	5.00	4.89	
152 Hexachlorobutadiene	225	14.389	14.389	0.000	96	256234	5.00	5.28	
153 Naphthalene	128	14.487	14.487	0.000	97	832424	5.00	4.80	
154 1,2,3-Trichlorobenzene	180	14.627	14.627	0.000	96	459947	5.00	5.08	
155 2-Methylnaphthalene	142	15.231	15.230	0.001	92	534329	5.00	4.78	
166 Pentane	43	2.928	2.928	0.000	97	282539	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

Reagents:

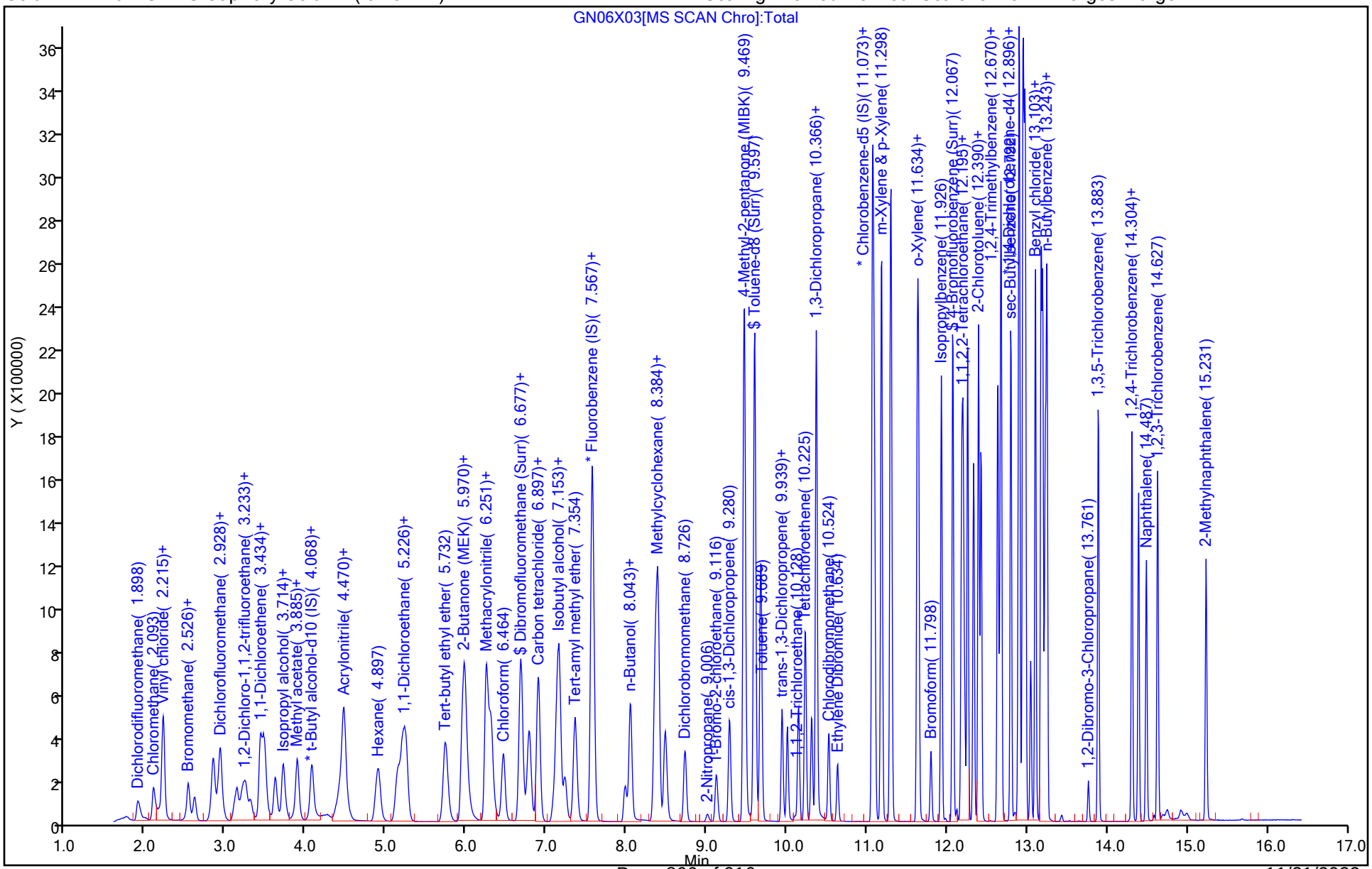
MSV_LCS_VOC#1_00080	Amount Added: 12.50	Units: uL	
MSV_QC_Gas826_00107	Amount Added: 12.50	Units: uL	
MSV_LCS_EE_00003	Amount Added: 12.50	Units: uL	
LCS_ETBR_00003	Amount Added: 12.50	Units: uL	
MSV_LCS_ACROL_00082	Amount Added: 12.50	Units: uL	
MSV_29_826ISS_00039	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 06-Nov-2022 15:38:21 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X03.D				
Injection Date:	06-Nov-2022 11:53:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X03.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	06-Nov-2022 11:53:30	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0070453-004				
Misc. Info.:	LCS				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Nov-2022 15:38:17	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1613				
First Level Reviewer: DVW2		Date:	06-Nov-2022 12:32:18		

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.0	100.11
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	102.68
$ 83 Toluene-d8 (Surr)	10.0	10.2	102.40
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.94	99.42

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-315144/5

Matrix: Water Lab File ID: IN08X04.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 11/08/2022 12:01

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 315144 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.04		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.70		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.76		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.48		0.50	0.080
75-34-3	1,1-Dichloroethane	4.79		0.50	0.10
75-35-4	1,1-Dichloroethene	4.92		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.26		0.50	0.080
107-06-2	1,2-Dichloroethane	4.62		0.50	0.070
78-87-5	1,2-Dichloropropane	5.27		0.50	0.10
78-93-3	2-Butanone (MEK)	43.2		5.0	1.0
591-78-6	2-Hexanone	42.5		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	40.4		5.0	1.0
67-64-1	Acetone	42.9		5.0	1.0
71-43-2	Benzene	5.16		0.50	0.10
74-97-5	Bromochloromethane	5.08		0.50	0.080
75-27-4	Bromodichloromethane	5.19		0.50	0.080
75-25-2	Bromoform	6.20		1.0	0.30
74-83-9	Bromomethane	4.27		0.50	0.10
75-15-0	Carbon disulfide	4.88		1.0	0.10
56-23-5	Carbon tetrachloride	4.78		0.50	0.10
108-90-7	Chlorobenzene	5.03		0.50	0.070
75-00-3	Chloroethane	4.30		0.50	0.10
67-66-3	Chloroform	4.86		0.50	0.090
74-87-3	Chloromethane	4.22		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	5.16		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.91		0.50	0.10
124-48-1	Dibromochloromethane	5.48		0.50	0.080
100-41-4	Ethylbenzene	5.07		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.08		0.50	0.080
75-09-2	Methylene Chloride	5.02		0.50	0.10
100-42-5	Styrene	5.32		0.50	0.070
127-18-4	Tetrachloroethene	4.81		0.50	0.20
108-88-3	Toluene	5.06		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-315144/5

Matrix: Water Lab File ID: IN08X04.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 11/08/2022 12:01

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 315144 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	4.85		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.17		0.50	0.080
79-01-6	Trichloroethene	4.91		0.50	0.080
75-01-4	Vinyl chloride	4.23		0.50	0.10
1330-20-7	Xylenes, Total	15.1		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08X04.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 08-Nov-2022 12:01:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070638-005
Misc. Info.: LCS
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20221108-70638.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 09-Nov-2022 14:36:37 Calib Date: 11-Oct-2022 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1619

First Level Reviewer: DVW2 Date: 08-Nov-2022 12:52:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.928	1.928	0.000	99	285352	5.00	4.09	
4 Chloromethane	50	2.123	2.129	-0.006	99	292049	5.00	4.22	
5 Vinyl chloride	62	2.233	2.233	0.000	98	286804	5.00	4.23	
6 Butadiene	39	2.251	2.251	0.000	88	269465	5.00	4.51	
7 Bromomethane	94	2.568	2.568	0.000	90	204262	5.00	4.27	
8 Chloroethane	64	2.647	2.654	-0.007	99	174065	5.00	4.30	
9 Dichlorofluoromethane	67	2.885	2.885	0.000	97	416186	5.00	4.39	
10 Trichlorofluoromethane	101	2.952	2.959	-0.007	97	388747	5.00	4.09	
11 Ethyl ether	59	3.196	3.190	0.006	90	168724	4.98	4.96	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.281	3.282	-0.001	92	277615	5.00	4.79	
14 Acrolein	56	3.367	3.361	0.006	98	195855	37.5	22.9	
15 1,1-Dichloroethene	96	3.501	3.507	-0.006	97	214492	5.00	4.92	
16 Acetone	43	3.531	3.532	-0.001	100	419744	62.5	42.9	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.538	3.544	-0.006	90	214693	5.00	5.05	
18 Iodomethane	142	3.696	3.696	0.000	98	378936	5.00	4.75	
20 Carbon disulfide	76	3.800	3.800	0.000	98	529478	5.00	4.88	
23 Methyl acetate	43	3.946	3.946	0.000	96	90734	5.00	3.26	
24 3-Chloro-1-propene	41	3.970	3.971	-0.001	92	299045	5.00	4.78	
25 Methylene Chloride	84	4.153	4.160	-0.007	89	230635	5.00	5.02	
* 26 t-Butyl alcohol-d10 (IS)	65	4.184	4.166	0.018	97	149595	50.0	50.0	
27 2-Methyl-2-propanol	59	4.306	4.288	0.018	99	163094	50.0	51.2	
28 Acrylonitrile	53	4.489	4.483	0.006	100	242028	25.0	19.4	
29 Methyl tert-butyl ether	73	4.562	4.562	0.000	88	558053	5.00	5.08	
30 trans-1,2-Dichloroethene	96	4.568	4.568	0.000	99	234480	5.00	4.85	
31 Hexane	57	4.988	4.995	-0.007	90	306158	5.00	4.91	
32 1,1-Dichloroethane	63	5.226	5.226	0.000	96	413001	5.00	4.79	
35 Isopropyl ether	45	5.287	5.281	0.006	93	638477	5.00	4.83	
36 2-Chloro-1,3-butadiene	53	5.336	5.330	0.006	89	324223	5.00	4.75	
37 Tert-butyl ethyl ether	59	5.818	5.818	0.000	97	647357	5.00	4.79	
38 2-Butanone (MEK)	43	6.025	6.019	0.006	98	765966	62.5	43.2	
39 cis-1,2-Dichloroethene	96	6.055	6.049	0.006	80	275567	5.00	5.16	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2,2-Dichloropropane	77	6.068	6.068	0.000	85	356409	5.00	4.60	
43 Propionitrile	54	6.116	6.104	0.012	98	136699	37.5	29.2	
45 Methacrylonitrile	67	6.324	6.324	0.000	88	489337	37.5	25.6	
46 Chlorobromomethane	128	6.385	6.379	0.006	87	120045	5.00	5.08	
47 Tetrahydrofuran	71	6.397	6.397	0.000	82	100050	25.0	19.2	
48 Chloroform	83	6.537	6.531	0.006	92	421119	5.00	4.86	
$ 49 Dibromofluoromethane (Surr)	113	6.750	6.751	-0.001	94	409237	10.0	9.64	
50 1,1,1-Trichloroethane	97	6.763	6.757	0.006	98	386257	5.00	4.70	
51 Cyclohexane	56	6.860	6.860	0.000	88	380794	5.00	5.01	
53 1,1-Dichloropropene	75	6.976	6.970	0.006	97	338967	5.00	4.93	
54 Carbon tetrachloride	117	6.970	6.976	-0.006	96	342211	5.00	4.78	
55 Isobutyl alcohol	41	7.128	7.116	0.012	94	130534	125.0	119.1	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.201	7.202	-0.001	98	88025	10.0	10.4	
57 Benzene	78	7.232	7.232	0.000	96	1028130	5.00	5.16	
58 1,2-Dichloroethane	62	7.305	7.299	0.006	97	249559	5.00	4.62	
60 Tert-amyl methyl ether	73	7.421	7.421	0.000	99	637857	5.00	5.12	
* 61 Fluorobenzene (IS)	96	7.634	7.635	0.000	99	1682660	10.0	10.0	
62 n-Heptane	43	7.646	7.647	-0.001	90	299307	5.00	4.61	
63 n-Butanol	56	8.006	7.994	0.012	86	236226	250.0	254.4	
64 Trichloroethene	95	8.116	8.110	0.006	98	268664	5.00	4.91	
65 Methylcyclohexane	83	8.421	8.421	0.000	94	434191	5.00	4.91	
66 1,2-Dichloropropane	63	8.439	8.439	0.000	85	254351	5.00	5.27	
67 Methyl methacrylate	69	8.530	8.525	0.005	86	120970	5.00	3.50	
68 1,4-Dioxane	88	8.543	8.525	0.018	33	32995	125.0	109.8	
69 Dibromomethane	93	8.555	8.549	0.006	93	124813	5.00	5.17	
71 Dichlorobromomethane	83	8.787	8.787	0.000	99	306140	5.00	5.19	
72 2-Nitropropane	41	9.055	9.049	0.006	99	31644	5.00	3.01	
75 1-Bromo-2-chloroethane	63	9.183	9.177	0.006	98	236449	5.00	4.89	
76 cis-1,3-Dichloropropene	75	9.335	9.335	0.000	97	360645	5.00	4.91	
77 4-Methyl-2-pentanone (MIBK)	43	9.506	9.500	0.006	94	1887218	62.5	40.4	
$ 78 Toluene-d8 (Surr)	98	9.646	9.646	0.000	93	1700441	10.0	9.87	
79 Toluene	92	9.719	9.719	0.000	98	685205	5.00	5.06	
97 trans-1,3-Dichloropropene	75	9.981	9.976	0.005	90	314268	5.00	5.17	
99 Ethyl methacrylate	69	10.042	10.036	0.006	88	249731	5.00	5.26	
100 1,1,2-Trichloroethane	97	10.183	10.183	0.000	90	195593	5.00	5.48	
101 Tetrachloroethene	166	10.274	10.274	0.000	98	316924	5.00	4.81	
102 1,3-Dichloropropane	76	10.347	10.341	0.006	88	319040	5.00	5.33	
103 2-Hexanone	43	10.396	10.396	0.000	94	1392074	62.5	42.5	
105 Chlorodibromomethane	129	10.561	10.561	0.000	90	230241	5.00	5.48	
106 Ethylene Dibromide	107	10.676	10.671	0.006	99	181636	5.00	5.26	
* 107 Chlorobenzene-d5 (IS)	117	11.103	11.103	0.000	84	1302882	10.0	10.0	
108 1-Chlorohexane	91	11.109	11.109	0.000	96	356789	5.00	4.60	
109 Chlorobenzene	112	11.128	11.128	0.000	96	758726	5.00	5.03	
111 1,1,1,2-Tetrachloroethane	131	11.213	11.213	0.000	96	263503	5.00	5.04	
112 Ethylbenzene	91	11.213	11.213	0.000	98	1315215	5.00	5.07	
113 m-Xylene & p-Xylene	106	11.329	11.329	0.000	100	1056845	10.0	10.2	
114 o-Xylene	106	11.658	11.658	0.000	96	495889	5.00	4.92	
115 Styrene	104	11.676	11.676	0.000	94	845432	5.00	5.32	
116 Bromoform	173	11.835	11.835	0.000	98	143079	5.00	6.20	
117 Isopropylbenzene	105	11.963	11.957	0.006	95	1350011	5.00	5.13	
$ 120 4-Bromofluorobenzene (Surr)	95	12.103	12.103	0.000	94	615631	10.0	9.66	
121 1,1,2,2-Tetrachloroethane	83	12.200	12.201	-0.001	93	251907	5.00	5.76	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
122 Bromobenzene	156	12.219	12.219	0.000	95	330022	5.00	5.32	
123 trans-1,4-Dichloro-2-butene	53	12.231	12.225	0.006	91	248204	25.0	14.2	
124 1,2,3-Trichloropropane	110	12.249	12.249	0.000	81	67815	5.00	5.54	
125 N-Propylbenzene	91	12.286	12.286	0.000	99	1553476	5.00	5.24	
126 2-Chlorotoluene	126	12.365	12.365	0.000	97	313744	5.00	5.03	
127 1,3,5-Trimethylbenzene	105	12.426	12.426	0.000	94	1122570	5.00	5.12	
128 4-Chlorotoluene	126	12.457	12.457	0.000	97	329008	5.00	5.18	
129 tert-Butylbenzene	134	12.664	12.664	0.000	92	239805	5.00	4.90	
130 Pentachloroethane	167	12.700	12.701	-0.001	35	1870	5.00	0.0475	
131 1,2,4-Trimethylbenzene	105	12.706	12.707	-0.001	97	1145424	5.00	5.20	
132 sec-Butylbenzene	105	12.828	12.829	-0.001	94	1472414	5.00	5.32	
133 1,3-Dichlorobenzene	146	12.932	12.932	0.000	98	640823	5.00	5.29	
134 4-Isopropyltoluene	119	12.938	12.938	0.000	97	1279334	5.00	5.30	
* 135 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	94	753224	10.0	10.0	
136 1,4-Dichlorobenzene	146	13.005	12.999	0.006	95	662560	5.00	5.24	
137 1,2,3-Trimethylbenzene	120	13.011	13.012	-0.001	98	500826	5.00	5.15	
138 Benzyl chloride	126	13.078	13.079	-0.001	98	95059	5.00	5.47	
139 n-Butylbenzene	92	13.231	13.231	0.000	96	586030	5.00	5.26	
140 1,2-Dichlorobenzene	146	13.261	13.261	0.000	99	598435	5.00	5.31	
142 1,2-Dibromo-3-Chloropropane	155	13.804	13.804	0.000	89	37391	5.00	6.14	
143 1,3,5-Trichlorobenzene	180	13.932	13.932	0.000	98	445839	5.00	5.15	
144 1,2,4-Trichlorobenzene	180	14.353	14.353	-0.001	94	379592	5.00	5.09	
145 Hexachlorobutadiene	225	14.438	14.432	0.006	96	149022	5.00	4.50	
146 Naphthalene	128	14.535	14.536	-0.001	97	706364	5.00	5.11	
147 1,2,3-Trichlorobenzene	180	14.676	14.676	0.000	96	323573	5.00	5.03	
161 Pentane	43		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
165 Isopropyl alcohol	45		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MSV_LCS_VOC#1_00081	Amount Added: 12.50	Units: uL	
MSV_LCS_ACROL_00083	Amount Added: 12.50	Units: uL	
MSV_LCS_EE_00003	Amount Added: 12.50	Units: uL	
MSV_QC_Gas826_00108	Amount Added: 12.50	Units: uL	
MSV_LCS_Penta_00021	Amount Added: 12.50	Units: uL	
MSV_LLcentISS_00005	Amount Added: 5.00	Units: uL	Run Reagent

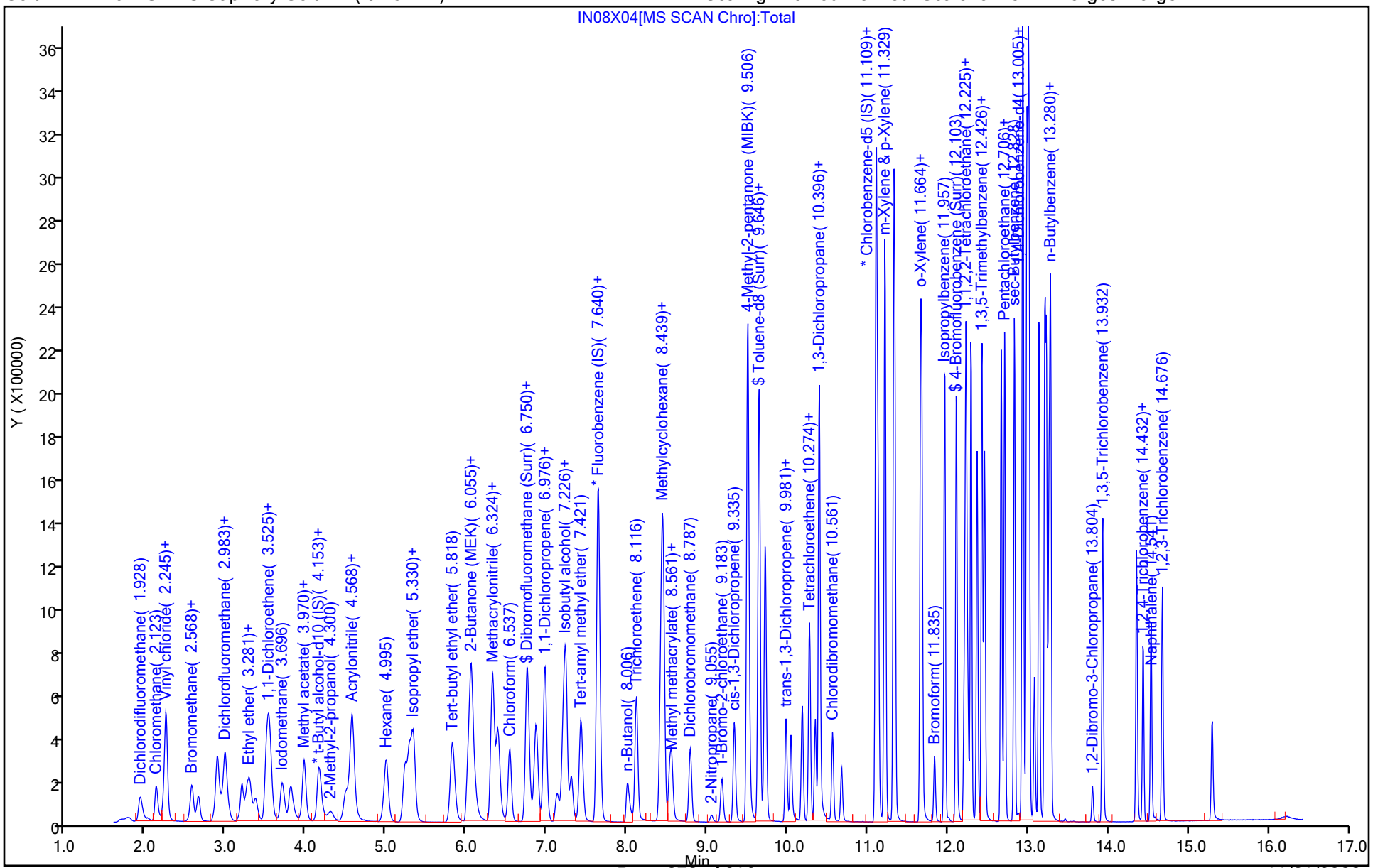
Report Date: 09-Nov-2022 14:37:42 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08X04.D

Injection Date:	08-Nov-2022 12:01:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08X04.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	08-Nov-2022 12:01:30	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0070638-005				
Misc. Info.:	LCS				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20221108-70638.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Nov-2022 14:36:37	Calib Date:	11-Oct-2022 20:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1619				

First Level Reviewer: DVW2 Date: 08-Nov-2022 12:52:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	9.64	96.38
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.42
$ 78 Toluene-d8 (Surr)	10.0	9.87	98.70
$ 120 4-Bromofluorobenzene (Surr)	10.0	9.66	96.56

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-315144/6

Matrix: Water Lab File ID: IN08X05.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 11/08/2022 12:22

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 315144 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.99		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.73		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.61		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.39		0.50	0.080
75-34-3	1,1-Dichloroethane	4.81		0.50	0.10
75-35-4	1,1-Dichloroethene	4.89		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.21		0.50	0.080
107-06-2	1,2-Dichloroethane	4.72		0.50	0.070
78-87-5	1,2-Dichloropropane	5.23		0.50	0.10
78-93-3	2-Butanone (MEK)	43.8		5.0	1.0
591-78-6	2-Hexanone	43.3		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	41.4		5.0	1.0
67-64-1	Acetone	42.8		5.0	1.0
71-43-2	Benzene	5.18		0.50	0.10
74-97-5	Bromochloromethane	5.20		0.50	0.080
75-27-4	Bromodichloromethane	5.18		0.50	0.080
75-25-2	Bromoform	6.19		1.0	0.30
74-83-9	Bromomethane	4.37		0.50	0.10
75-15-0	Carbon disulfide	4.87		1.0	0.10
56-23-5	Carbon tetrachloride	4.84		0.50	0.10
108-90-7	Chlorobenzene	5.02		0.50	0.070
75-00-3	Chloroethane	4.27		0.50	0.10
67-66-3	Chloroform	4.89		0.50	0.090
74-87-3	Chloromethane	4.20		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	5.15		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.01		0.50	0.10
124-48-1	Dibromochloromethane	5.51		0.50	0.080
100-41-4	Ethylbenzene	5.06		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.13		0.50	0.080
75-09-2	Methylene Chloride	5.04		0.50	0.10
100-42-5	Styrene	5.32		0.50	0.070
127-18-4	Tetrachloroethene	4.77		0.50	0.20
108-88-3	Toluene	5.09		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-315144/6

Matrix: Water Lab File ID: IN08X05.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 11/08/2022 12:22

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 315144 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	4.84		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.20		0.50	0.080
79-01-6	Trichloroethene	4.83		0.50	0.080
75-01-4	Vinyl chloride	4.23		0.50	0.10
1330-20-7	Xylenes, Total	15.2		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08X05.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 08-Nov-2022 12:22:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070638-006
Misc. Info.: LCSD
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20221108-70638.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 09-Nov-2022 14:36:37 Calib Date: 11-Oct-2022 20:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1619

First Level Reviewer: DVW2 Date: 08-Nov-2022 12:51:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.928	1.928	0.000	99	288586	5.00	4.08	
4 Chloromethane	50	2.129	2.129	0.000	99	294767	5.00	4.20	
5 Vinyl chloride	62	2.239	2.233	0.006	98	290901	5.00	4.23	
6 Butadiene	39	2.251	2.251	0.000	88	279519	5.00	4.62	
7 Bromomethane	94	2.574	2.568	0.006	91	211733	5.00	4.37	
8 Chloroethane	64	2.654	2.654	0.000	99	174973	5.00	4.27	
9 Dichlorofluoromethane	67	2.891	2.885	0.006	97	415850	5.00	4.34	
10 Trichlorofluoromethane	101	2.958	2.959	-0.001	97	384734	5.00	4.00	
11 Ethyl ether	59	3.196	3.190	0.006	89	170688	4.98	4.96	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.281	3.282	-0.001	91	282172	5.00	4.81	
14 Acrolein	56	3.367	3.361	0.006	99	201316	37.5	22.9	
15 1,1-Dichloroethene	96	3.507	3.507	0.000	97	216059	5.00	4.89	
16 Acetone	43	3.531	3.532	-0.001	100	429636	62.5	42.8	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.544	3.544	0.000	89	217901	5.00	5.06	
18 Iodomethane	142	3.702	3.696	0.006	99	383489	5.00	4.75	
20 Carbon disulfide	76	3.812	3.800	0.012	99	534995	5.00	4.87	
23 Methyl acetate	43	3.952	3.946	0.006	96	96877	5.00	3.40	
24 3-Chloro-1-propene	41	3.970	3.971	-0.001	92	309814	5.00	4.89	
25 Methylene Chloride	84	4.159	4.160	-0.001	90	234664	5.00	5.04	
* 26 t-Butyl alcohol-d10 (IS)	65	4.190	4.166	0.024	96	153279	50.0	50.0	
27 2-Methyl-2-propanol	59	4.300	4.288	0.012	99	170911	50.0	52.4	
28 Acrylonitrile	53	4.495	4.483	0.012	99	248308	25.0	19.5	
29 Methyl tert-butyl ether	73	4.568	4.562	0.006	95	571574	5.00	5.13	
30 trans-1,2-Dichloroethene	96	4.574	4.568	0.006	98	236947	5.00	4.84	
31 Hexane	57	5.001	4.995	0.006	89	320146	5.00	5.07	
32 1,1-Dichloroethane	63	5.226	5.226	0.000	96	420262	5.00	4.81	
35 Isopropyl ether	45	5.287	5.281	0.006	93	647171	5.00	4.83	
36 2-Chloro-1,3-butadiene	53	5.336	5.330	0.006	89	332324	5.00	4.80	
37 Tert-butyl ethyl ether	59	5.824	5.818	0.006	97	663972	5.00	4.85	
38 2-Butanone (MEK)	43	6.025	6.019	0.006	98	795374	62.5	43.8	
39 cis-1,2-Dichloroethene	96	6.061	6.049	0.012	81	278545	5.00	5.15	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2,2-Dichloropropane	77	6.074	6.068	0.006	86	368661	5.00	4.70	
43 Propionitrile	54	6.116	6.104	0.012	99	142119	37.5	29.7	
45 Methacrylonitrile	67	6.324	6.324	0.000	89	502817	37.5	25.7	
46 Chlorobromomethane	128	6.385	6.379	0.006	91	124424	5.00	5.20	
47 Tetrahydrofuran	71	6.403	6.397	0.006	82	102924	25.0	19.3	
48 Chloroform	83	6.537	6.531	0.006	92	428372	5.00	4.89	
$ 49 Dibromofluoromethane (Surr)	113	6.750	6.751	-0.001	94	424881	10.0	9.88	
50 1,1,1-Trichloroethane	97	6.763	6.757	0.006	98	393416	5.00	4.73	
51 Cyclohexane	56	6.866	6.860	0.006	88	388575	5.00	5.04	
53 1,1-Dichloropropene	75	6.976	6.970	0.006	97	348024	5.00	4.99	
54 Carbon tetrachloride	117	6.976	6.976	0.000	82	350503	5.00	4.84	
55 Isobutyl alcohol	41	7.128	7.116	0.012	94	132730	125.0	118.2	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.201	7.202	-0.001	98	90690	10.0	10.6	
57 Benzene	78	7.232	7.232	0.000	96	1045166	5.00	5.18	
58 1,2-Dichloroethane	62	7.305	7.299	0.006	97	258374	5.00	4.72	
60 Tert-amyl methyl ether	73	7.421	7.421	0.000	99	652291	5.00	5.17	
* 61 Fluorobenzene (IS)	96	7.634	7.635	0.000	99	1704218	10.0	10.0	
62 n-Heptane	43	7.653	7.647	0.006	94	304212	5.00	4.62	
63 n-Butanol	56	8.006	7.994	0.012	85	236641	250.0	248.7	
64 Trichloroethene	95	8.116	8.110	0.006	97	267492	5.00	4.83	
65 Methylcyclohexane	83	8.421	8.421	0.000	93	444207	5.00	4.96	
66 1,2-Dichloropropane	63	8.445	8.439	0.006	85	255559	5.00	5.23	
67 Methyl methacrylate	69	8.530	8.525	0.005	87	122584	5.00	3.46	
68 1,4-Dioxane	88	8.530	8.525	0.005	35	31285	125.0	101.6	
69 Dibromomethane	93	8.555	8.549	0.006	94	125921	5.00	5.15	
71 Dichlorobromomethane	83	8.787	8.787	0.000	99	309260	5.00	5.18	
72 2-Nitropropane	41	9.049	9.049	0.000	97	33886	5.00	3.14	
75 1-Bromo-2-chloroethane	63	9.183	9.177	0.006	98	243996	5.00	4.99	
76 cis-1,3-Dichloropropene	75	9.335	9.335	0.000	98	373338	5.00	5.01	
77 4-Methyl-2-pentanone (MIBK)	43	9.506	9.500	0.006	94	1981895	62.5	41.4	
$ 78 Toluene-d8 (Surr)	98	9.646	9.646	0.000	93	1753970	10.0	9.94	
79 Toluene	92	9.719	9.719	0.000	99	705405	5.00	5.09	
97 trans-1,3-Dichloropropene	75	9.981	9.976	0.005	90	323957	5.00	5.20	
99 Ethyl methacrylate	69	10.042	10.036	0.006	88	263084	5.00	5.41	
100 1,1,2-Trichloroethane	97	10.183	10.183	0.000	90	197227	5.00	5.39	
101 Tetrachloroethene	166	10.274	10.274	0.000	97	322041	5.00	4.77	
102 1,3-Dichloropropane	76	10.347	10.341	0.006	87	322772	5.00	5.26	
103 2-Hexanone	43	10.396	10.396	0.000	94	1452929	62.5	43.3	
105 Chlorodibromomethane	129	10.561	10.561	0.000	90	236917	5.00	5.51	
106 Ethylene Dibromide	107	10.676	10.671	0.006	99	184570	5.00	5.21	
* 107 Chlorobenzene-d5 (IS)	117	11.103	11.103	0.000	84	1334745	10.0	10.0	
108 1-Chlorohexane	91	11.115	11.109	0.006	95	370251	5.00	4.66	
109 Chlorobenzene	112	11.128	11.128	0.000	96	775425	5.00	5.02	
111 1,1,1,2-Tetrachloroethane	131	11.213	11.213	0.000	95	267463	5.00	4.99	
112 Ethylbenzene	91	11.213	11.213	0.000	98	1343322	5.00	5.06	
113 m-Xylene & p-Xylene	106	11.329	11.329	0.000	100	1080232	10.0	10.2	
114 o-Xylene	106	11.658	11.658	0.000	96	515079	5.00	4.99	
115 Styrene	104	11.676	11.676	0.000	94	866139	5.00	5.32	
116 Bromoform	173	11.835	11.835	0.000	98	146357	5.00	6.19	
117 Isopropylbenzene	105	11.963	11.957	0.006	95	1375418	5.00	5.10	
$ 120 4-Bromofluorobenzene (Surr)	95	12.103	12.103	0.000	94	634343	10.0	9.71	
121 1,1,2,2-Tetrachloroethane	83	12.200	12.201	-0.001	94	253528	5.00	5.61	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
122 Bromobenzene	156	12.219	12.219	0.000	95	335450	5.00	5.23	
123 trans-1,4-Dichloro-2-butene	53	12.231	12.225	0.006	91	254690	25.0	14.2	
124 1,2,3-Trichloropropane	110	12.249	12.249	0.000	82	68835	5.00	5.43	
125 N-Propylbenzene	91	12.286	12.286	0.000	99	1606220	5.00	5.24	
126 2-Chlorotoluene	126	12.365	12.365	0.000	97	318982	5.00	4.95	
127 1,3,5-Trimethylbenzene	105	12.426	12.426	0.000	94	1146126	5.00	5.06	
128 4-Chlorotoluene	126	12.457	12.457	0.000	97	333437	5.00	5.08	
129 tert-Butylbenzene	134	12.664	12.664	0.000	92	243011	5.00	4.80	
130 Pentachloroethane	167	12.694	12.701	-0.007	35	2029	5.00	0.0498	
131 1,2,4-Trimethylbenzene	105	12.706	12.707	-0.001	97	1161903	5.00	5.10	
132 sec-Butylbenzene	105	12.828	12.829	-0.001	94	1487575	5.00	5.20	
133 1,3-Dichlorobenzene	146	12.932	12.932	0.000	99	643173	5.00	5.14	
134 4-Isopropyltoluene	119	12.938	12.938	0.000	97	1291367	5.00	5.17	
* 135 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	93	778781	10.0	10.0	
136 1,4-Dichlorobenzene	146	13.005	12.999	0.006	95	661203	5.00	5.06	
137 1,2,3-Trimethylbenzene	120	13.011	13.012	-0.001	98	504036	5.00	5.02	
138 Benzyl chloride	126	13.078	13.079	-0.001	98	99884	5.00	5.56	
139 n-Butylbenzene	92	13.231	13.231	0.000	97	604694	5.00	5.25	
140 1,2-Dichlorobenzene	146	13.261	13.261	0.000	99	611264	5.00	5.24	
142 1,2-Dibromo-3-Chloropropane	155	13.804	13.804	0.000	89	38189	5.00	6.06	
143 1,3,5-Trichlorobenzene	180	13.932	13.932	0.000	98	452354	5.00	5.05	
144 1,2,4-Trichlorobenzene	180	14.353	14.353	-0.001	94	393360	5.00	5.10	
145 Hexachlorobutadiene	225	14.438	14.432	0.006	96	152454	5.00	4.45	
146 Naphthalene	128	14.535	14.536	-0.001	97	759971	5.00	5.32	
147 1,2,3-Trichlorobenzene	180	14.676	14.676	0.000	96	342225	5.00	5.15	
161 Pentane	43		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
165 Isopropyl alcohol	45		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MSV_LCS_VOC#1_00081	Amount Added: 12.50	Units: uL	
MSV_LCS_ACROL_00083	Amount Added: 12.50	Units: uL	
MSV_LCS_EE_00003	Amount Added: 12.50	Units: uL	
MSV_QC_Gas826_00108	Amount Added: 12.50	Units: uL	
MSV_LCS_Penta_00021	Amount Added: 12.50	Units: uL	
MSV_LLcentISS_00005	Amount Added: 5.00	Units: uL	Run Reagent

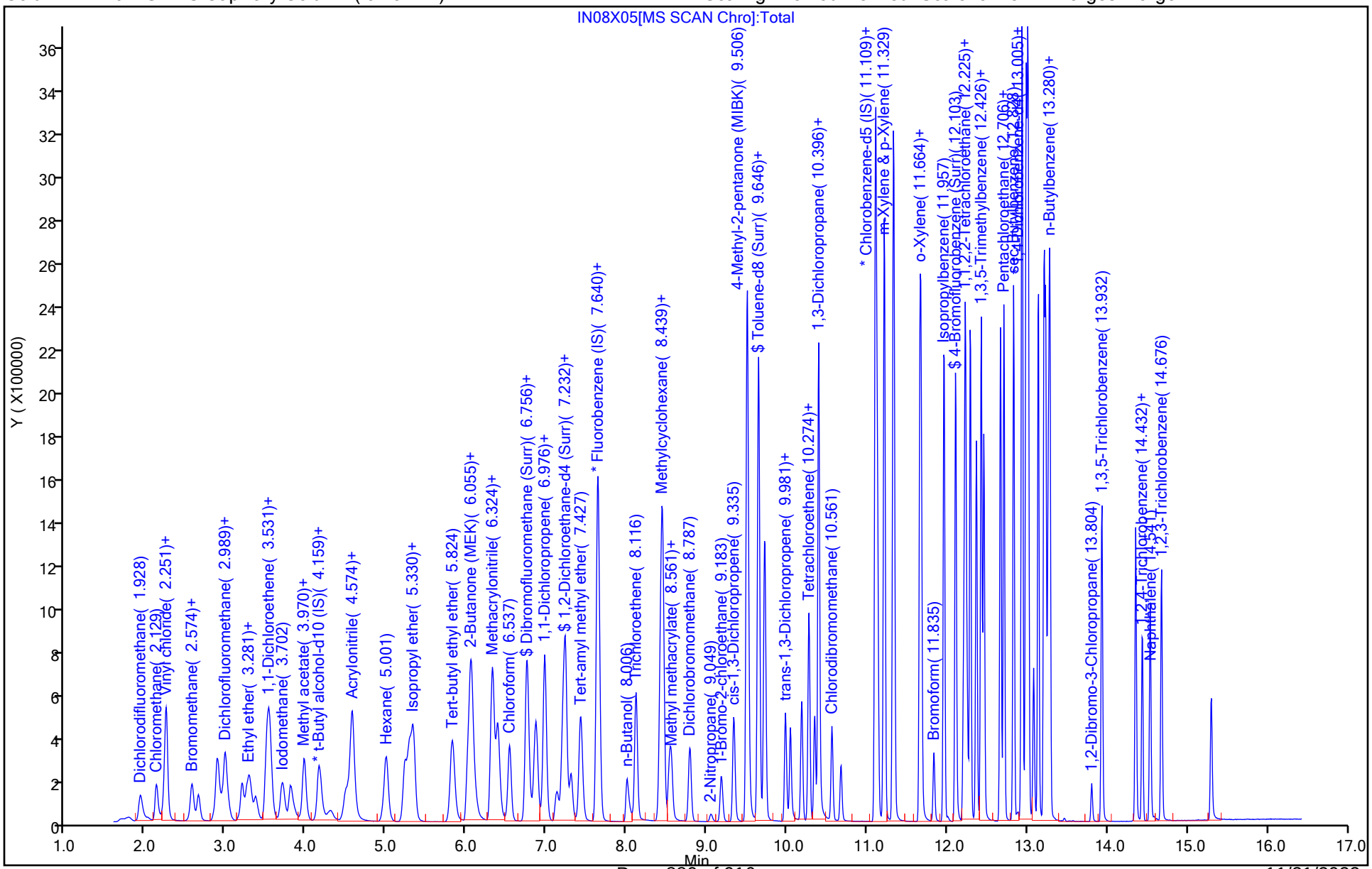
Report Date: 09-Nov-2022 14:38:34 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08X05.D

Injection Date:	08-Nov-2022 12:22:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	LCSD			Worklist Smp#:	6
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20221108-70638.b\IN08X05.D				
Lims ID:	LCSD				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	08-Nov-2022 12:22:30	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0070638-006				
Misc. Info.:	LCSD				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20221108-70638.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Nov-2022 14:36:37	Calib Date:	11-Oct-2022 20:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20221011-68441.b\IC11X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1619				

First Level Reviewer: DVW2 Date: 08-Nov-2022 12:51:49

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	10.0	9.88	98.80
$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	106.22
$ 78 Toluene-d8 (Surr)	10.0	9.94	99.38
$ 120 4-Bromofluorobenzene (Surr)	10.0	9.71	97.12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0MS MS Lab Sample ID: 410-103501-6 MS

Matrix: Water Lab File ID: GN06X13.D

Analysis Method: 8260D Date Collected: 10/27/2022 11:25

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 15:37

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	6.08		0.50	0.070
71-55-6	1,1,1-Trichloroethane	6.33		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.74		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.77		0.50	0.080
75-34-3	1,1-Dichloroethane	5.88		0.50	0.10
75-35-4	1,1-Dichloroethene	6.35		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.57		0.50	0.080
107-06-2	1,2-Dichloroethane	5.32		0.50	0.070
78-87-5	1,2-Dichloropropane	5.96		0.50	0.10
78-93-3	2-Butanone (MEK)	64.4		5.0	1.0
591-78-6	2-Hexanone	61.2		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	60.5		5.0	1.0
67-64-1	Acetone	66.7		5.0	1.0
71-43-2	Benzene	5.89		0.50	0.10
74-97-5	Bromochloromethane	5.69		0.50	0.080
75-27-4	Bromodichloromethane	6.15		0.50	0.080
75-25-2	Bromoform	6.98		1.0	0.30
74-83-9	Bromomethane	4.64		0.50	0.10
75-15-0	Carbon disulfide	8.15		1.0	0.10
56-23-5	Carbon tetrachloride	6.34		0.50	0.10
108-90-7	Chlorobenzene	5.61		0.50	0.070
75-00-3	Chloroethane	5.22		0.50	0.10
67-66-3	Chloroform	6.03		0.50	0.090
74-87-3	Chloromethane	5.18		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	8.30		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.78		0.50	0.10
124-48-1	Dibromochloromethane	6.44		0.50	0.080
100-41-4	Ethylbenzene	5.82		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.56		0.50	0.080
75-09-2	Methylene Chloride	5.99		0.50	0.10
100-42-5	Styrene	5.60		0.50	0.070
127-18-4	Tetrachloroethene	11.1		0.50	0.20
108-88-3	Toluene	5.81		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0MS MS Lab Sample ID: 410-103501-6 MS

Matrix: Water Lab File ID: GN06X13.D

Analysis Method: 8260D Date Collected: 10/27/2022 11:25

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 15:37

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.84		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	6.24		0.50	0.080
79-01-6	Trichloroethene	7.32		0.50	0.080
75-01-4	Vinyl chloride	5.07		0.50	0.10
1330-20-7	Xylenes, Total	17.1		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X13.D
Lims ID: 410-103501-A-6 MS
Client ID: HD-COD-SW-15-0/1-0MS
Sample Type: MS
Inject. Date: 06-Nov-2022 15:37:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070453-014
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Nov-2022 17:29:21 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

First Level Reviewer: DVW2 Date: 07-Nov-2022 17:29:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.892	1.898	-0.006	99	211957	5.00	4.54	
5 Chloromethane	50	2.087	2.087	0.000	99	272627	5.00	5.18	
6 Vinyl chloride	62	2.203	2.203	0.000	98	272743	5.00	5.07	
7 Butadiene	39	2.215	2.215	0.000	93	295205	5.00	5.77	
9 Bromomethane	94	2.526	2.526	0.000	91	197004	5.00	4.64	
10 Chloroethane	64	2.599	2.605	-0.006	99	167493	5.00	5.22	
11 Dichlorofluoromethane	67	2.837	2.837	0.000	97	418854	5.00	5.34	
12 Trichlorofluoromethane	101	2.898	2.898	0.000	96	404874	5.00	5.48	
13 Ethyl ether	59	3.129	3.129	0.000	90	188390	4.99	5.49	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.227	3.233	-0.006	90	276699	5.00	5.30	
17 Acrolein	56	3.300	3.300	0.000	99	207031	37.5	34.8	
18 1,1-Dichloroethene	96	3.422	3.422	0.000	96	245973	5.00	6.35	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.465	3.471	-0.006	90	262724	5.00	6.96	
20 Acetone	43	3.477	3.471	0.006	100	435547	62.6	66.7	
21 Iodomethane	142	3.605	3.611	-0.006	99	425399	5.00	5.80	
24 Isopropyl alcohol	45	3.696	3.702	-0.006	96	43097	37.5	43.4	
23 Carbon disulfide	76	3.708	3.708	0.000	99	769816	5.00	8.15	
25 Methyl acetate	43	3.861	3.861	0.000	50	97042	5.00	4.79	
27 3-Chloro-1-propene	41	3.885	3.885	0.000	91	319122	5.00	6.11	
29 Methylene Chloride	84	4.062	4.062	0.000	88	256797	5.00	5.99	
* 30 t-Butyl alcohol-d10 (IS)	65	4.129	4.135	-0.006	86	128745	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.251	4.245	0.006	99	117830	50.0	51.6	
32 Acrylonitrile	53	4.416	4.403	0.013	97	248202	25.0	28.7	
33 Methyl tert-butyl ether	73	4.458	4.458	0.000	92	614687	5.00	5.56	
34 trans-1,2-Dichloroethene	96	4.464	4.464	0.000	99	263854	5.00	5.84	
35 Hexane	57	4.891	4.891	0.000	91	341264	5.00	6.92	
37 1,1-Dichloroethane	63	5.135	5.129	0.006	96	431661	5.00	5.88	
38 Isopropyl ether	45	5.196	5.196	0.000	95	692877	5.00	5.70	
39 2-Chloro-1,3-butadiene	53	5.245	5.245	0.000	90	355224	5.00	6.08	
40 Tert-butyl ethyl ether	59	5.732	5.738	-0.006	96	676511	5.00	5.41	
41 2-Butanone (MEK)	43	5.946	5.946	0.000	99	830869	62.6	64.4	
42 cis-1,2-Dichloroethene	96	5.976	5.976	0.000	81	410003	5.00	8.30	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 2,2-Dichloropropane	77	5.988	5.988	0.000	85	390488	5.00	6.57	
45 Propionitrile	54	6.049	6.037	0.012	98	136410	37.5	44.6	
48 Methacrylonitrile	67	6.244	6.244	0.000	89	530871	37.5	38.6	
49 Chlorobromomethane	128	6.305	6.299	0.006	90	134740	5.00	5.69	
50 Tetrahydrofuran	71	6.305	6.311	-0.006	86	103156	25.0	26.9	
51 Chloroform	83	6.464	6.458	0.006	92	474697	5.00	6.03	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	94	449398	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.683	6.677	0.006	97	434617	5.00	6.33	
54 Cyclohexane	56	6.781	6.775	0.006	88	414956	5.00	6.64	
56 Carbon tetrachloride	117	6.891	6.891	0.000	97	374541	5.00	6.34	
57 1,1-Dichloropropene	75	6.897	6.891	0.006	98	364042	5.00	5.96	
58 Isobutyl alcohol	41	7.092	7.086	0.006	94	108480	125.1	168.3	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.135	7.122	0.013	91	96998	10.0	10.2	
60 Benzene	78	7.159	7.159	0.000	96	1059299	5.00	5.89	
61 1,2-Dichloroethane	62	7.232	7.226	0.006	98	272935	5.00	5.32	
63 Tert-amyl methyl ether	73	7.354	7.354	0.000	99	658840	5.00	5.56	
* 64 Fluorobenzene (IS)	96	7.567	7.567	0.000	99	1797241	10.0	10.0	
65 n-Heptane	43	7.580	7.580	0.000	91	354353	5.00	6.87	
67 n-Butanol	56	7.976	7.976	0.000	88	194954	250.2	292.8	
68 Trichloroethene	95	8.049	8.043	0.006	97	367643	5.00	7.32	
69 Methylcyclohexane	83	8.354	8.354	0.000	89	488142	5.00	6.53	
70 1,2-Dichloropropane	63	8.378	8.378	0.000	96	262242	5.00	5.96	
71 2-ethoxy-2-methyl butane	87	8.397	8.390	0.006	96	384617	5.00	5.46	
72 Methyl methacrylate	69	8.470	8.470	0.000	86	128973	5.00	4.81	
73 Dibromomethane	93	8.488	8.488	0.000	94	138295	5.00	5.72	
74 1,4-Dioxane	88	8.512	8.506	0.006	31	22064	125.1	152.8	
76 Dichlorobromomethane	83	8.726	8.726	0.000	99	325305	5.00	6.15	
77 2-Nitropropane	41	9.006	9.006	0.000	97	30923	5.00	5.13	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	98	259733	5.00	5.45	
81 cis-1,3-Dichloropropene	75	9.287	9.280	0.007	97	381378	5.00	5.78	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	96	2052177	62.6	60.5	
$ 83 Toluene-d8 (Surr)	98	9.597	9.597	0.000	93	1807172	10.0	10.2	
84 Toluene	92	9.671	9.671	0.000	98	693943	5.00	5.81	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	91	332370	5.00	6.24	
104 Ethyl methacrylate	69	10.006	10.000	0.006	88	259857	5.00	5.67	
106 1,1,2-Trichloroethane	97	10.146	10.140	0.006	90	202872	5.00	5.77	
107 Tetrachloroethene	166	10.232	10.231	0.001	97	668017	5.00	11.1	
108 1,3-Dichloropropane	76	10.311	10.305	0.006	88	336366	5.00	5.83	
109 2-Hexanone	43	10.366	10.366	0.000	95	1515332	62.6	61.2	
111 Chlorodibromomethane	129	10.524	10.524	0.000	89	247516	5.00	6.44	
112 Ethylene Dibromide	107	10.634	10.634	0.000	98	192695	5.00	5.57	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	84	1377524	10.0	10.0	
114 1-Chlorohexane	91	11.079	11.079	0.000	95	381822	5.00	5.70	
115 Chlorobenzene	112	11.091	11.097	-0.006	96	812002	5.00	5.61	
117 1,1,1,2-Tetrachloroethane	131	11.176	11.176	0.000	95	282375	5.00	6.08	
116 Ethylbenzene	91	11.183	11.182	0.001	98	1348817	5.00	5.82	
119 m-Xylene & p-Xylene	106	11.298	11.298	0.000	89	1076511	10.0	11.6	
120 o-Xylene	106	11.628	11.628	0.000	96	510291	5.00	5.53	
121 Styrene	104	11.646	11.640	0.006	95	874253	5.00	5.60	
122 Bromoform	173	11.798	11.798	0.000	97	151070	5.00	6.98	
123 Isopropylbenzene	105	11.926	11.926	0.000	95	1356422	5.00	5.75	
$ 126 4-Bromofluorobenzene (Surr)	95	12.067	12.066	0.001	94	653927	10.0	9.96	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
127 1,1,2,2-Tetrachloroethane	83	12.176	12.176	0.000	94	256293	5.00	5.74	
128 Bromobenzene	156	12.188	12.182	0.006	95	358226	5.00	5.57	
129 trans-1,4-Dichloro-2-butene	53	12.201	12.201	0.000	93	239504	25.0	19.2	
130 1,2,3-Trichloropropane	110	12.219	12.219	0.000	82	72068	5.00	5.62	
131 N-Propylbenzene	91	12.256	12.255	0.001	99	1628784	5.00	5.79	
132 2-Chlorotoluene	126	12.329	12.329	0.000	97	339195	5.00	5.49	
133 1,3,5-Trimethylbenzene	105	12.390	12.390	0.000	95	1173097	5.00	5.57	
134 4-Chlorotoluene	126	12.426	12.426	0.000	96	356018	5.00	5.51	
135 tert-Butylbenzene	134	12.633	12.633	0.000	92	259301	5.00	5.34	
136 Pentachloroethane	167	12.664	12.664	0.000	92	210904	5.00	6.07	
137 1,2,4-Trimethylbenzene	105	12.676	12.676	0.000	96	1228750	5.00	5.66	
138 sec-Butylbenzene	105	12.798	12.792	0.006	94	1541850	5.00	5.84	
139 1,3-Dichlorobenzene	146	12.896	12.889	0.007	99	701394	5.00	5.28	
140 4-Isopropyltoluene	119	12.902	12.902	0.000	97	1389620	5.00	5.77	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	94	836090	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.963	12.963	0.000	95	729330	5.00	5.24	
143 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	98	550028	5.00	5.52	
144 Benzyl chloride	126	13.042	13.042	0.000	98	106928	5.00	6.17	
145 p-Diethylbenzene	119	13.103	13.103	0.000	92	809062	5.00	5.64	
146 n-Butylbenzene	92	13.194	13.188	0.006	97	684473	5.00	5.82	
147 1,2-Dichlorobenzene	146	13.225	13.225	0.000	99	664441	5.00	5.33	
149 1,2-Dibromo-3-Chloropropane	155	13.761	13.761	0.000	89	38609	5.00	5.87	
150 1,3,5-Trichlorobenzene	180	13.883	13.883	0.000	97	586833	5.00	5.48	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	514531	5.00	5.12	
152 Hexachlorobutadiene	225	14.389	14.389	0.000	96	288432	5.00	6.06	
153 Naphthalene	128	14.487	14.487	0.000	97	827741	5.00	4.87	
154 1,2,3-Trichlorobenzene	180	14.627	14.627	0.000	95	452769	5.00	5.10	
155 2-Methylnaphthalene	142	15.231	15.230	0.001	91	432672	5.00	3.95	
166 Pentane	43	2.922	2.928	-0.006	96	356761	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

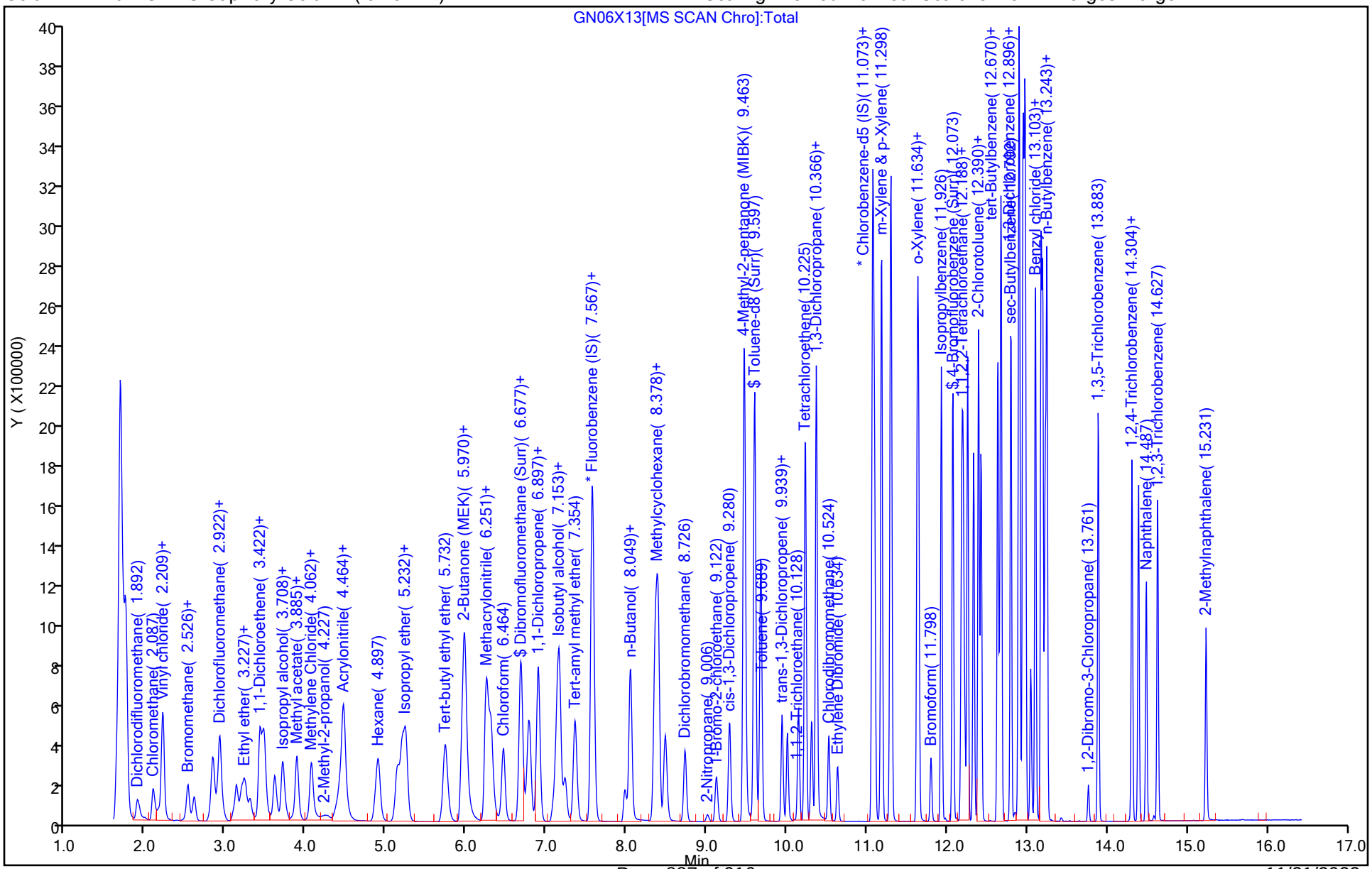
MSV_LCS_EE_00003	Amount Added:	5.38	Units: uL	
MSV_QC_Gas826_00107	Amount Added:	5.38	Units: uL	
MSV_LCS_VOC#1_00080	Amount Added:	5.38	Units: uL	
MSV_LCS_Penta_00021	Amount Added:	5.38	Units: uL	
MSV_LCS_ACROL_00082	Amount Added:	5.38	Units: uL	
MSV_29_826ISS_00039	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 07-Nov-2022 21:10:11 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X13.D				
Injection Date:	06-Nov-2022 15:37:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-103501-A-6 MS			Worklist Smp#:	14
Client ID:	HD-COD-SW-15-0/1-0MS				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X13.D				
Lims ID:	410-103501-A-6 MS				
Client ID:	HD-COD-SW-15-0/1-0MS				
Sample Type:	MS				
Inject. Date:	06-Nov-2022 15:37:30	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0070453-014				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Nov-2022 17:29:21	Calib Date:	16-Aug-2022 19:38:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1606				

First Level Reviewer: DVW2 Date: 07-Nov-2022 17:29:21

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.1	100.72
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.36
$ 83 Toluene-d8 (Surr)	10.0	10.2	102.44
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.96	99.59

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

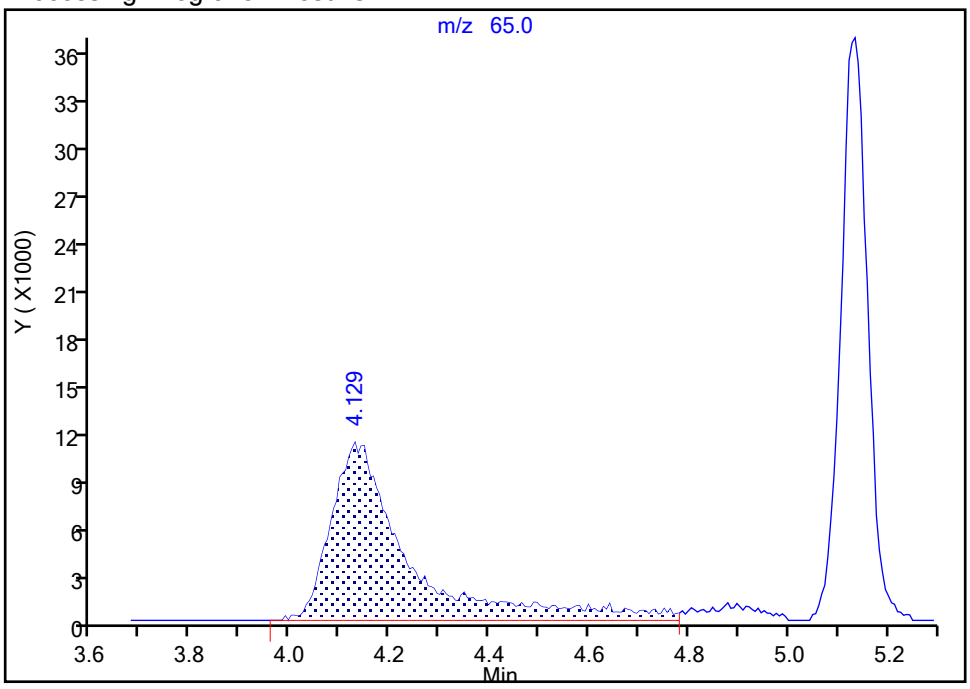
Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X13.D				
Injection Date:	06-Nov-2022 15:37:30	Instrument ID:	16334		
Lims ID:	410-103501-A-6 MS				
Client ID:	HD-COD-SW-15-0/1-0MS				
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

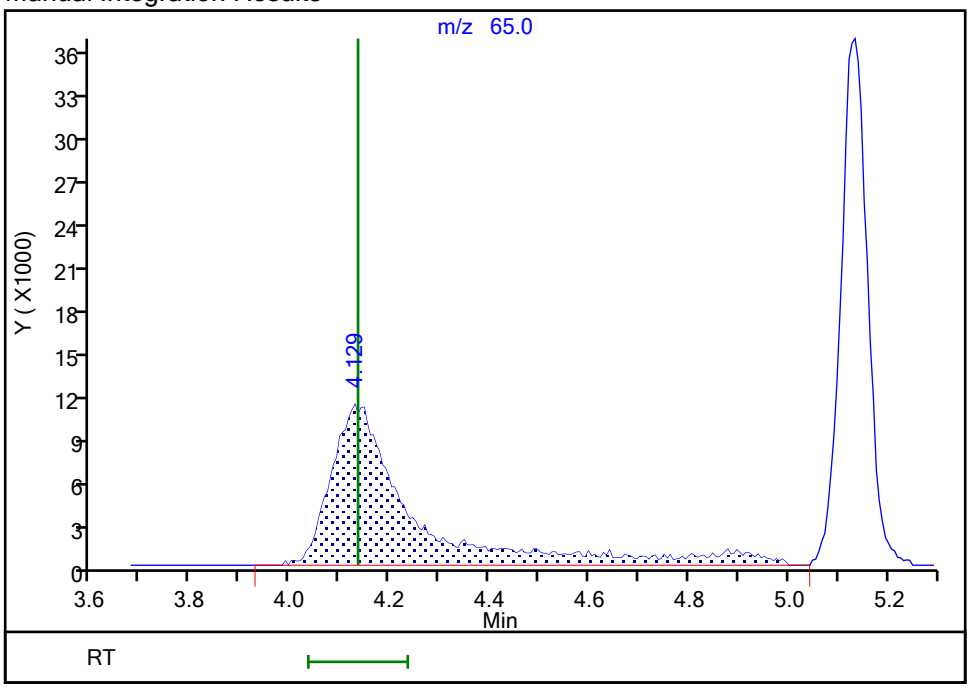
Processing Integration Results

RT: 4.13
Area: 120552
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.13
Area: 128745
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 07-Nov-2022 17:28:18

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.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0MSD MSD Lab Sample ID: 410-103501-6 MSD

Matrix: Water Lab File ID: GN06X14.D

Analysis Method: 8260D Date Collected: 10/27/2022 11:25

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 15:59

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	6.03		0.50	0.070
71-55-6	1,1,1-Trichloroethane	6.21		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.66		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.67		0.50	0.080
75-34-3	1,1-Dichloroethane	5.90		0.50	0.10
75-35-4	1,1-Dichloroethene	6.19		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.53		0.50	0.080
107-06-2	1,2-Dichloroethane	5.11		0.50	0.070
78-87-5	1,2-Dichloropropane	5.81		0.50	0.10
78-93-3	2-Butanone (MEK)	70.7		5.0	1.0
591-78-6	2-Hexanone	65.7		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	65.2		5.0	1.0
67-64-1	Acetone	71.7		5.0	1.0
71-43-2	Benzene	5.81		0.50	0.10
74-97-5	Bromochloromethane	5.69		0.50	0.080
75-27-4	Bromodichloromethane	6.01		0.50	0.080
75-25-2	Bromoform	6.97		1.0	0.30
74-83-9	Bromomethane	4.70		0.50	0.10
75-15-0	Carbon disulfide	7.97		1.0	0.10
56-23-5	Carbon tetrachloride	6.24		0.50	0.10
108-90-7	Chlorobenzene	5.50		0.50	0.070
75-00-3	Chloroethane	5.26		0.50	0.10
67-66-3	Chloroform	6.00		0.50	0.090
74-87-3	Chloromethane	5.17		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	8.24		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.68		0.50	0.10
124-48-1	Dibromochloromethane	6.33		0.50	0.080
100-41-4	Ethylbenzene	5.72		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.57		0.50	0.080
75-09-2	Methylene Chloride	5.86		0.50	0.10
100-42-5	Styrene	5.48		0.50	0.070
127-18-4	Tetrachloroethene	11.0		0.50	0.20
108-88-3	Toluene	5.72		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-103501-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0MSD MSD Lab Sample ID: 410-103501-6 MSD

Matrix: Water Lab File ID: GN06X14.D

Analysis Method: 8260D Date Collected: 10/27/2022 11:25

Sample wt/vol: 25(mL) Date Analyzed: 11/06/2022 15:59

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 314355 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.71		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	6.11		0.50	0.080
79-01-6	Trichloroethene	7.20		0.50	0.080
75-01-4	Vinyl chloride	5.03		0.50	0.10
1330-20-7	Xylenes, Total	16.8		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		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\16334\20221106-70453.b\GN06X14.D
Lims ID: 410-103501-A-6 MSD
Client ID: HD-COD-SW-15-0/1-0MSD
Sample Type: MSD
Inject. Date: 06-Nov-2022 15:59:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070453-015
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Nov-2022 17:29:21 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.904	1.898	0.006	99	226885	5.00	4.80	
5 Chloromethane	50	2.099	2.087	0.012	99	275550	5.00	5.17	
6 Vinyl chloride	62	2.209	2.203	0.006	98	274258	5.00	5.03	
7 Butadiene	39	2.221	2.215	0.006	92	315263	5.00	6.08	
9 Bromomethane	94	2.532	2.526	0.006	91	202341	5.00	4.70	
10 Chloroethane	64	2.611	2.605	0.006	99	171096	5.00	5.26	
11 Dichlorofluoromethane	67	2.849	2.837	0.012	97	421501	5.00	5.30	
12 Trichlorofluoromethane	101	2.910	2.898	0.012	97	412362	5.00	5.50	
13 Ethyl ether	59	3.141	3.129	0.012	90	190734	4.99	5.48	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.233	3.233	0.000	91	282615	5.00	5.34	
17 Acrolein	56	3.312	3.300	0.012	100	211774	37.5	38.3	
18 1,1-Dichloroethene	96	3.434	3.422	0.012	97	242739	5.00	6.19	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.477	3.471	0.006	91	264196	5.00	6.91	
20 Acetone	43	3.489	3.471	0.018	100	434935	62.6	71.7	
21 Iodomethane	142	3.617	3.611	0.006	99	425870	5.00	5.73	
24 Isopropyl alcohol	45	3.702	3.702	0.000	95	47339	37.5	47.0	
23 Carbon disulfide	76	3.721	3.708	0.012	99	762976	5.00	7.97	
25 Methyl acetate	43	3.879	3.861	0.018	43	101376	5.00	5.39	
27 3-Chloro-1-propene	41	3.891	3.885	0.006	91	321511	5.00	6.07	
29 Methylene Chloride	84	4.074	4.062	0.012	88	254818	5.00	5.86	
* 30 t-Butyl alcohol-d10 (IS)	65	4.153	4.135	0.018	86	119566	50.0	50.0	
31 2-Methyl-2-propanol	59	4.257	4.245	0.012	100	121196	50.0	57.2	
32 Acrylonitrile	53	4.422	4.403	0.019	99	259957	25.0	32.3	
33 Methyl tert-butyl ether	73	4.470	4.458	0.012	92	624139	5.00	5.57	
34 trans-1,2-Dichloroethene	96	4.476	4.464	0.012	98	261850	5.00	5.71	
35 Hexane	57	4.903	4.891	0.012	90	345315	5.00	6.90	
37 1,1-Dichloroethane	63	5.141	5.129	0.012	96	439023	5.00	5.90	
38 Isopropyl ether	45	5.208	5.196	0.012	93	692953	5.00	5.63	
39 2-Chloro-1,3-butadiene	53	5.257	5.245	0.012	89	355257	5.00	5.99	
40 Tert-butyl ethyl ether	59	5.744	5.738	0.006	97	686717	5.00	5.42	
41 2-Butanone (MEK)	43	5.952	5.946	0.006	99	846652	62.6	70.7	
42 cis-1,2-Dichloroethene	96	5.976	5.976	0.000	79	412544	5.00	8.24	
43 2,2-Dichloropropane	77	5.994	5.988	0.006	85	387983	5.00	6.44	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
45 Propionitrile	54	6.049	6.037	0.012	98	132846	37.5	46.8	
48 Methacrylonitrile	67	6.263	6.244	0.019	89	527470	37.5	41.3	
49 Chlorobromomethane	128	6.311	6.299	0.012	87	136602	5.00	5.69	
50 Tetrahydrofuran	71	6.324	6.311	0.013	84	105059	25.0	29.6	
51 Chloroform	83	6.464	6.458	0.006	92	478494	5.00	6.00	
$ 52 Dibromofluoromethane (Surr)	113	6.683	6.671	0.012	94	452496	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.696	6.677	0.019	97	432388	5.00	6.21	
54 Cyclohexane	56	6.787	6.775	0.012	87	413793	5.00	6.54	
56 Carbon tetrachloride	117	6.897	6.891	0.006	97	374151	5.00	6.24	
57 1,1-Dichloropropene	75	6.903	6.891	0.012	98	355968	5.00	5.75	
58 Isobutyl alcohol	41	7.098	7.086	0.012	92	105888	125.1	162.0	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.134	7.122	0.012	88	97429	10.0	10.1	
60 Benzene	78	7.165	7.159	0.006	96	1060338	5.00	5.81	
61 1,2-Dichloroethane	62	7.238	7.226	0.012	97	265755	5.00	5.11	
63 Tert-amyl methyl ether	73	7.360	7.354	0.006	99	659610	5.00	5.49	
* 64 Fluorobenzene (IS)	96	7.573	7.567	0.006	99	1821701	10.0	10.0	
65 n-Heptane	43	7.586	7.580	0.006	90	355550	5.00	6.80	
67 n-Butanol	56	7.982	7.976	0.006	88	200801	250.2	324.7	
68 Trichloroethene	95	8.049	8.043	0.006	96	366659	5.00	7.20	
69 Methylcyclohexane	83	8.360	8.354	0.006	92	487341	5.00	6.43	
70 1,2-Dichloropropane	63	8.384	8.378	0.006	93	259377	5.00	5.81	
71 2-ethoxy-2-methyl butane	87	8.396	8.390	0.006	95	385021	5.00	5.39	
72 Methyl methacrylate	69	8.476	8.470	0.006	86	126330	5.00	5.08	
73 Dibromomethane	93	8.488	8.488	0.000	92	136903	5.00	5.59	
74 1,4-Dioxane	88	8.512	8.506	0.006	29	8395	125.1	67.6	
76 Dichlorobromomethane	83	8.732	8.726	0.006	99	322057	5.00	6.01	
77 2-Nitropropane	41	9.012	9.006	0.006	98	31771	5.00	5.68	
79 1-Bromo-2-chloroethane	63	9.122	9.116	0.006	99	266093	5.00	5.51	
81 cis-1,3-Dichloropropene	75	9.286	9.280	0.006	97	380039	5.00	5.68	
82 4-Methyl-2-pentanone (MIBK)	43	9.469	9.463	0.006	95	2055904	62.6	65.2	
$ 83 Toluene-d8 (Surr)	98	9.597	9.597	0.000	93	1828644	10.0	10.2	
84 Toluene	92	9.677	9.671	0.006	98	692225	5.00	5.72	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	91	329373	5.00	6.11	
104 Ethyl methacrylate	69	10.006	10.000	0.006	87	264494	5.00	5.69	
106 1,1,2-Trichloroethane	97	10.146	10.140	0.006	90	201942	5.00	5.67	
107 Tetrachloroethene	166	10.231	10.231	0.000	97	673110	5.00	11.0	
108 1,3-Dichloropropane	76	10.311	10.305	0.006	87	333221	5.00	5.70	
109 2-Hexanone	43	10.366	10.366	0.000	95	1509935	62.6	65.7	
111 Chlorodibromomethane	129	10.524	10.524	0.000	90	246497	5.00	6.33	
112 Ethylene Dibromide	107	10.634	10.634	0.000	99	193810	5.00	5.53	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	84	1395606	10.0	10.0	
114 1-Chlorohexane	91	11.079	11.079	0.000	94	381297	5.00	5.62	
115 Chlorobenzene	112	11.097	11.097	0.000	96	805371	5.00	5.50	
117 1,1,1,2-Tetrachloroethane	131	11.176	11.176	0.000	95	283455	5.00	6.03	
116 Ethylbenzene	91	11.182	11.182	0.000	98	1342618	5.00	5.72	
119 m-Xylene & p-Xylene	106	11.298	11.298	0.000	89	1066522	10.0	11.3	
120 o-Xylene	106	11.627	11.628	-0.001	95	509865	5.00	5.46	
121 Styrene	104	11.646	11.640	0.006	95	867946	5.00	5.48	
122 Bromoform	173	11.798	11.798	0.000	97	152712	5.00	6.97	
123 Isopropylbenzene	105	11.926	11.926	0.000	95	1356835	5.00	5.68	
$ 126 4-Bromofluorobenzene (Surr)	95	12.073	12.066	0.007	95	668629	10.0	10.1	
127 1,1,2,2-Tetrachloroethane	83	12.176	12.176	0.000	94	255430	5.00	5.66	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
128 Bromobenzene	156	12.182	12.182	0.000	95	352701	5.00	5.42	
129 trans-1,4-Dichloro-2-butene	53	12.201	12.201	0.000	92	236621	25.0	20.4	
130 1,2,3-Trichloropropane	110	12.219	12.219	0.000	82	70251	5.00	5.42	
131 N-Propylbenzene	91	12.255	12.255	0.000	99	1612448	5.00	5.67	
132 2-Chlorotoluene	126	12.329	12.329	0.000	97	337335	5.00	5.40	
133 1,3,5-Trimethylbenzene	105	12.390	12.390	0.000	94	1161586	5.00	5.45	
134 4-Chlorotoluene	126	12.426	12.426	0.000	96	352161	5.00	5.39	
135 tert-Butylbenzene	134	12.633	12.633	0.000	92	257700	5.00	5.25	
136 Pentachloroethane	167	12.664	12.664	0.000	91	210818	5.00	6.00	
137 1,2,4-Trimethylbenzene	105	12.676	12.676	0.000	96	1218977	5.00	5.56	
138 sec-Butylbenzene	105	12.798	12.792	0.006	94	1532511	5.00	5.74	
139 1,3-Dichlorobenzene	146	12.889	12.889	0.000	99	712516	5.00	5.30	
140 4-Isopropyltoluene	119	12.902	12.902	0.000	97	1381582	5.00	5.67	
* 141 1,4-Dichlorobenzene-d4	152	12.950	12.944	0.006	92	845378	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.963	12.963	0.000	95	730496	5.00	5.19	
143 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	98	546560	5.00	5.43	
144 Benzyl chloride	126	13.042	13.042	0.000	98	108344	5.00	6.18	
145 p-Diethylbenzene	119	13.103	13.103	0.000	92	806191	5.00	5.56	
146 n-Butylbenzene	92	13.194	13.188	0.006	95	671250	5.00	5.64	
147 1,2-Dichlorobenzene	146	13.225	13.225	0.000	99	665221	5.00	5.28	
149 1,2-Dibromo-3-Chloropropane	155	13.761	13.761	0.000	90	37696	5.00	5.67	
150 1,3,5-Trichlorobenzene	180	13.889	13.883	0.006	98	588248	5.00	5.43	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	516943	5.00	5.09	
152 Hexachlorobutadiene	225	14.389	14.389	0.000	96	289162	5.00	6.01	
153 Naphthalene	128	14.487	14.487	0.000	97	855223	5.00	4.97	
154 1,2,3-Trichlorobenzene	180	14.627	14.627	0.000	95	466007	5.00	5.19	
155 2-Methylnaphthalene	142	15.230	15.230	0.000	92	485022	5.00	4.38	
166 Pentane	43	2.934	2.928	0.006	96	356493	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

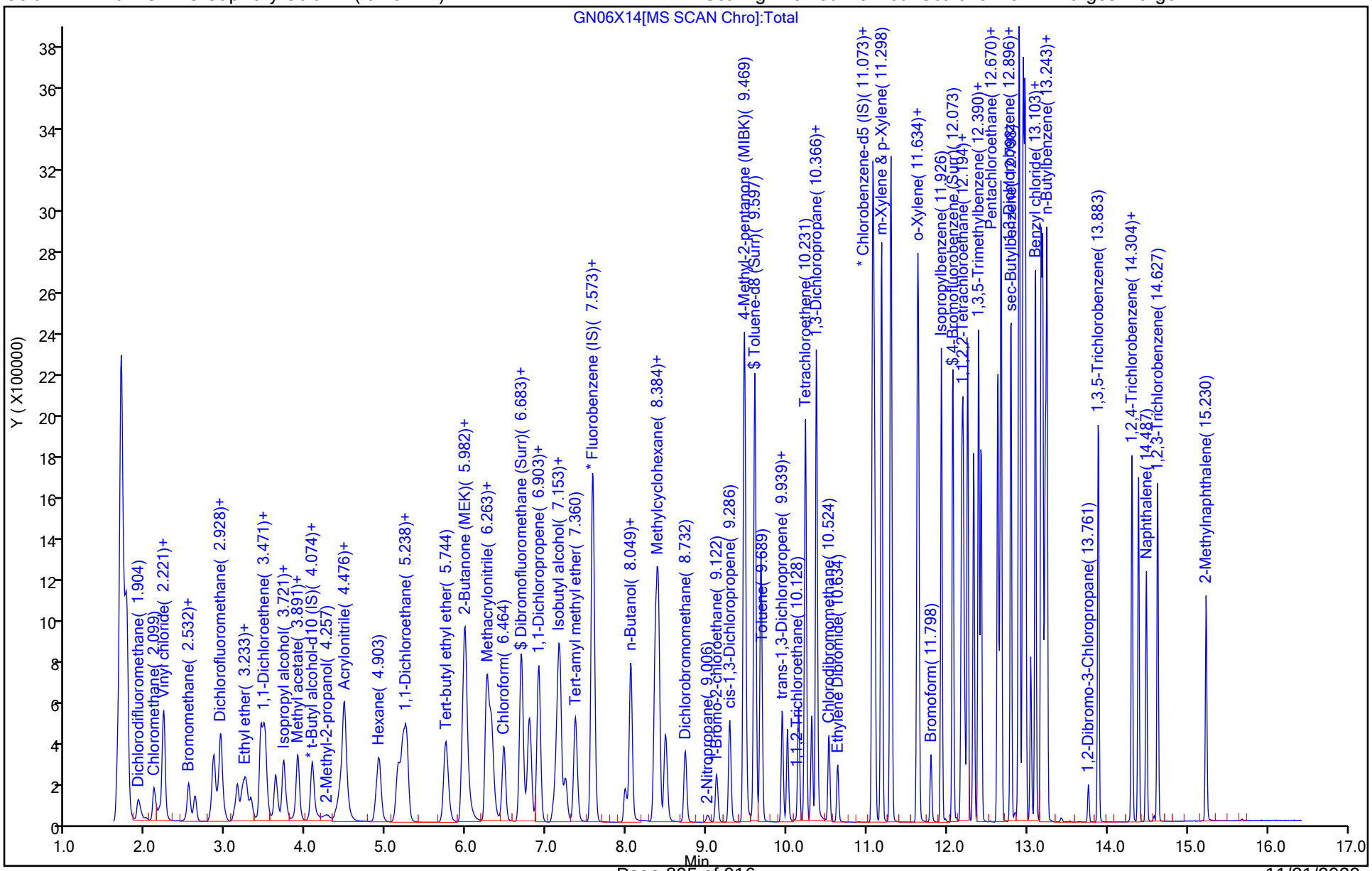
MSV_LCS_EE_00003	Amount Added:	5.38	Units: uL	
MSV_QC_Gas826_00107	Amount Added:	5.38	Units: uL	
MSV_LCS_VOC#1_00080	Amount Added:	5.38	Units: uL	
MSV_LCS_Penta_00021	Amount Added:	5.38	Units: uL	
MSV_LCS_ACROL_00082	Amount Added:	5.38	Units: uL	
MSV_29_826ISS_00039	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 07-Nov-2022 21:10:14 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X14.D				
Injection Date:	06-Nov-2022 15:59:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-103501-A-6 MSD			Worklist Smp#:	15
Client ID:	HD-COD-SW-15-0/1-0MSD				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\GN06X14.D
Lims ID: 410-103501-A-6 MSD
Client ID: HD-COD-SW-15-0/1-0MSD
Sample Type: MSD
Inject. Date: 06-Nov-2022 15:59:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0070453-015
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20221106-70453.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Nov-2022 17:29:21 Calib Date: 16-Aug-2022 19:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220816-64243.b\GG16X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1606

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.0	100.05
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	101.43
$ 83 Toluene-d8 (Surr)	10.0	10.2	102.32
$ 126 4-Bromofluorobenzene (Surr)	10.0	10.1	100.51

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-103501-1

SDG No.:

Instrument ID: 16334 Start Date: 08/16/2022 13:07

Analysis Batch Number: 286414 End Date: 08/16/2022 20:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-286414/1		08/16/2022 13:07	1	GG16T01.D	R-624SilMS 30m 0.25(mm)
IC 410-286414/3		08/16/2022 13:45	1		R-624SilMS 30m 0.25(mm)
IC 410-286414/4		08/16/2022 14:07	1		R-624SilMS 30m 0.25(mm)
IC 410-286414/5		08/16/2022 14:29	1		R-624SilMS 30m 0.25(mm)
IC 410-286414/6		08/16/2022 14:51	1		R-624SilMS 30m 0.25(mm)
IC 410-286414/7		08/16/2022 15:13	1		R-624SilMS 30m 0.25(mm)
IC 410-286414/8		08/16/2022 15:35	1		R-624SilMS 30m 0.25(mm)
IC 410-286414/9		08/16/2022 15:58	1		R-624SilMS 30m 0.25(mm)
ICV 410-286414/11		08/16/2022 16:42	1		R-624SilMS 30m 0.25(mm)
IC 410-286414/13		08/16/2022 17:26	1	GG16X12.D	R-624SilMS 30m 0.25(mm)
IC 410-286414/14		08/16/2022 17:48	1	GG16X13.D	R-624SilMS 30m 0.25(mm)
IC 410-286414/15		08/16/2022 18:10	1	GG16X14.D	R-624SilMS 30m 0.25(mm)
IC 410-286414/16		08/16/2022 18:32	1	GG16X15.D	R-624SilMS 30m 0.25(mm)
IC 410-286414/17		08/16/2022 18:54	1	GG16X16.D	R-624SilMS 30m 0.25(mm)
ICIS 410-286414/18		08/16/2022 19:17	1	GG16X17.D	R-624SilMS 30m 0.25(mm)
IC 410-286414/19		08/16/2022 19:38	1	GG16X18.D	R-624SilMS 30m 0.25(mm)
ICV 410-286414/21		08/16/2022 20:22	1	GG16X20.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-103501-1

SDG No.:

Instrument ID: 19930 Start Date: 10/11/2022 14:28

Analysis Batch Number: 305355 End Date: 10/11/2022 20:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-305355/1		10/11/2022 14:28	1	IC11T01.D	R-624SilMS 30m 0.25(mm)
IC 410-305355/3		10/11/2022 15:03	1		R-624SilMS 30m 0.25(mm)
IC 410-305355/4		10/11/2022 15:24	1		R-624SilMS 30m 0.25(mm)
IC 410-305355/5		10/11/2022 15:45	1		R-624SilMS 30m 0.25(mm)
IC 410-305355/6		10/11/2022 16:06	1		R-624SilMS 30m 0.25(mm)
IC 410-305355/7		10/11/2022 16:27	1		R-624SilMS 30m 0.25(mm)
IC 410-305355/8		10/11/2022 16:48	1		R-624SilMS 30m 0.25(mm)
IC 410-305355/9		10/11/2022 17:10	1		R-624SilMS 30m 0.25(mm)
ICV 410-305355/10		10/11/2022 17:31	1		R-624SilMS 30m 0.25(mm)
IC 410-305355/12		10/11/2022 18:14	1	IC11X11.D	R-624SilMS 30m 0.25(mm)
ICIS 410-305355/13		10/11/2022 18:35	1	IC11X12.D	R-624SilMS 30m 0.25(mm)
IC 410-305355/14		10/11/2022 18:56	1	IC11X13.D	R-624SilMS 30m 0.25(mm)
IC 410-305355/15		10/11/2022 19:16	1	IC11X14.D	R-624SilMS 30m 0.25(mm)
IC 410-305355/16		10/11/2022 19:38	1	IC11X15.D	R-624SilMS 30m 0.25(mm)
IC 410-305355/17		10/11/2022 19:59	1	IC11X16.D	R-624SilMS 30m 0.25(mm)
IC 410-305355/18		10/11/2022 20:20	1	IC11X17.D	R-624SilMS 30m 0.25(mm)
ICV 410-305355/19		10/11/2022 20:41	1	IC11X18.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-103501-1

SDG No.:

Instrument ID: 16334 Start Date: 11/06/2022 10:54

Analysis Batch Number: 314355 End Date: 11/06/2022 22:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-314355/1		11/06/2022 10:54	1	GN06T02.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-314355/3		11/06/2022 11:30	1	GN06X02.D	R-624SilMS 30m 0.25(mm)
LCS 410-314355/4		11/06/2022 11:53	1	GN06X03.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		11/06/2022 12:15	1		R-624SilMS 30m 0.25(mm)
MB 410-314355/6		11/06/2022 12:37	1	GN06X05.D	R-624SilMS 30m 0.25(mm)
410-103501-14	HD-QC1-0/1-2	11/06/2022 13:03	1	GN06X06.D	R-624SilMS 30m 0.25(mm)
410-103501-1	HD-COD-SW-6-0/1-0	11/06/2022 13:25	1	GN06X07.D	R-624SilMS 30m 0.25(mm)
410-103501-2	HD-COD-SW-7-0/1-0	11/06/2022 13:47	1	GN06X08.D	R-624SilMS 30m 0.25(mm)
410-103501-3	HD-COD-SW-8-0/1-0	11/06/2022 14:09	1	GN06X09.D	R-624SilMS 30m 0.25(mm)
410-103501-4	HD-COD-SW-9-0/1-0	11/06/2022 14:31	1	GN06X10.D	R-624SilMS 30m 0.25(mm)
410-103501-5	HD-COD-SW-13-0/1-0	11/06/2022 14:53	1	GN06X11.D	R-624SilMS 30m 0.25(mm)
410-103501-6	HD-COD-SW-15-0/1-0	11/06/2022 15:15	1	GN06X12.D	R-624SilMS 30m 0.25(mm)
410-103501-6 MS	HD-COD-SW-15-0/1-0MS MS	11/06/2022 15:37	1	GN06X13.D	R-624SilMS 30m 0.25(mm)
410-103501-6 MSD	HD-COD-SW-15-0/1-0MSD MSD	11/06/2022 15:59	1	GN06X14.D	R-624SilMS 30m 0.25(mm)
410-103501-7	HD-COD-SW-16-0/1-0	11/06/2022 16:21	1	GN06X15.D	R-624SilMS 30m 0.25(mm)
410-103501-8	HD-COD-SW-17-0/1-0	11/06/2022 16:43	1	GN06X16.D	R-624SilMS 30m 0.25(mm)
410-103501-9	HD-COD-SW-26-0/1-0	11/06/2022 17:05	1	GN06X17.D	R-624SilMS 30m 0.25(mm)
410-103501-10	HD-COD-SW-27-0/1-0	11/06/2022 17:27	1	GN06X18.D	R-624SilMS 30m 0.25(mm)
410-103501-11	HD-COD-SW-28-0/1-0	11/06/2022 17:49	1	GN06X19.D	R-624SilMS 30m 0.25(mm)
410-103501-12	HD-COD-SW-29-0/1-0	11/06/2022 18:11	1	GN06X20.D	R-624SilMS 30m 0.25(mm)
410-103501-13	HD-QC1-0/1-1	11/06/2022 18:33	1	GN06X21.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		11/06/2022 18:55	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/06/2022 19:17	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/06/2022 19:39	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/06/2022 20:01	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/06/2022 20:23	5		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/06/2022 20:45	50		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/06/2022 21:07	5		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/06/2022 21:29	50		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/06/2022 21:52	5		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/06/2022 22:14	50		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-103501-1

SDG No.:

Instrument ID: 19930 Start Date: 11/08/2022 10:45

Analysis Batch Number: 315144 End Date: 11/08/2022 22:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-315144/1		11/08/2022 10:45	1	IN08T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-315144/3		11/08/2022 11:19	1	IN08X02.D	R-624SilMS 30m 0.25(mm)
CCV 410-315144/4		11/08/2022 11:40	1		R-624SilMS 30m 0.25(mm)
LCS 410-315144/5		11/08/2022 12:01	1	IN08X04.D	R-624SilMS 30m 0.25(mm)
LCSD 410-315144/6		11/08/2022 12:22	1	IN08X05.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 12:44	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 13:05	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 13:26	1		R-624SilMS 30m 0.25(mm)
MB 410-315144/10		11/08/2022 13:48	1	IN08X09.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 14:09	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 14:30	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 14:52	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 15:13	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 15:34	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 15:55	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 16:16	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 16:37	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 16:59	5		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 17:20	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 17:41	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 18:02	1		R-624SilMS 30m 0.25(mm)
410-103501-8 DL	HD-COD-SW-17-0/1-0 DL	11/08/2022 18:24	10	IN08X22.D	R-624SilMS 30m 0.25(mm)
410-103501-13 DL	HD-QC1-0/1-1 DL	11/08/2022 18:45	10	IN08X23.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 19:06	5		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 19:27	2		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 19:48	20		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 20:10	2		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 20:31	20		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 20:53	2		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 21:14	20		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 21:35	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 21:56	25		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 22:17	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		11/08/2022 22:39	10		R-624SilMS 30m 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-103501-1

SDG No.:

Batch Number: 286414 Batch Start Date: 08/16/22 13:07 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	LCS_ETBR 00003	MSV_29_826ISS 00037	MSV_LCS_ACROL 00071
BFB 410-286414/1		8260D		1 uL	1 uL				
IC 410-286414/13		8260D		25 mL	25 mL	2656		1 uL	
IC 410-286414/14		8260D		25 mL	25 mL	2656		1 uL	
IC 410-286414/15		8260D		25 mL	25 mL	2656		1 uL	
IC 410-286414/16		8260D		25 mL	25 mL	2656		1 uL	
IC 410-286414/17		8260D		25 mL	25 mL	2656		1 uL	
ICIS 410-286414/18		8260D		25 mL	25 mL	2656		1 uL	
IC 410-286414/19		8260D		25 mL	25 mL	2656		1 uL	
ICV 410-286414/21		8260D		25 mL	25 mL	2656	12.5 uL	1 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_EE 00003	MSV_LCS_Penta 00018	MSV_LCS_VOC#1 00068	MSV_LL_#1_826 00052	MSV_LL_#2_826 00056	MSV_LL_GAS826 00108
BFB 410-286414/1		8260D							
IC 410-286414/13		8260D					2 uL	2 uL	2 uL
IC 410-286414/14		8260D					2 uL	2 uL	2 uL
IC 410-286414/15		8260D					2 uL	2 uL	2 uL
IC 410-286414/16		8260D					2 uL	2 uL	2 uL
IC 410-286414/17		8260D					5 uL	5 uL	5 uL
ICIS 410-286414/18		8260D					10 uL	10 uL	10 uL
IC 410-286414/19		8260D					25 uL	25 uL	25 uL
ICV 410-286414/21		8260D		12.5 uL	12.5 uL	12.5 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-103501-1

SDG No.:

Batch Number: 286414 Batch Start Date: 08/16/22 13:07 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_QC_Gas826 00095	MSV_V_BFB 00008				
BFB 410-286414/1		8260D			1 uL				
IC 410-286414/13		8260D							
IC 410-286414/14		8260D							
IC 410-286414/15		8260D							
IC 410-286414/16		8260D							
IC 410-286414/17		8260D							
ICIS 410-286414/18		8260D							
IC 410-286414/19		8260D							
ICV 410-286414/21		8260D		12.5 uL					

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-103501-1

SDG No.:

Batch Number: 305355 Batch Start Date: 10/11/22 14:28 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	LCS_ETBR 00003	MSV_LCS_ACROL 00079	MSV_LCS_EE 00003
BFB 410-305355/1		8260D		1 uL	1 uL				
IC 410-305355/12		8260D		25 mL	25 mL	2660			
ICIS 410-305355/13		8260D		25 mL	25 mL	2660			
IC 410-305355/14		8260D		25 mL	25 mL	2660			
IC 410-305355/15		8260D		25 mL	25 mL	2660			
IC 410-305355/16		8260D		25 mL	25 mL	2660			
IC 410-305355/17		8260D		25 mL	25 mL	2660			
IC 410-305355/18		8260D		25 mL	25 mL	2660			
ICV 410-305355/19		8260D		25 mL	25 mL	2660	12.5 uL	12.5 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_Penta 00020	MSV_LCS_VOC#1 00077	MSV_LL_#1_826 00056	MSV_LL_#2_826 00060	MSV_LL_GAS826 00116	MSV_LLcentISS 00005
BFB 410-305355/1		8260D							
IC 410-305355/12		8260D				25 uL	25 uL	25 uL	5 uL
ICIS 410-305355/13		8260D				10 uL	10 uL	10 uL	5 uL
IC 410-305355/14		8260D				5 uL	5 uL	5 uL	5 uL
IC 410-305355/15		8260D				2 uL	2 uL	2 uL	5 uL
IC 410-305355/16		8260D				2 uL	2 uL	2 uL	5 uL
IC 410-305355/17		8260D				2 uL	2 uL	2 uL	5 uL
IC 410-305355/18		8260D				2 uL	2 uL	2 uL	5 uL
ICV 410-305355/19		8260D		12.5 uL	12.5 uL				5 uL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-103501-1

SDG No.:

Batch Number: 305355 Batch Start Date: 10/11/22 14:28 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_QC_Gas826 00104	MSV_V_BFB 00008				
BFB 410-305355/1		8260D			1 uL				
IC 410-305355/12		8260D							
ICIS 410-305355/13		8260D							
IC 410-305355/14		8260D							
IC 410-305355/15		8260D							
IC 410-305355/16		8260D							
IC 410-305355/17		8260D							
IC 410-305355/18		8260D							
ICV 410-305355/19		8260D		12.5 uL					

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-103501-1

SDG No.:

Batch Number: 314355 Batch Start Date: 11/06/22 10:54 Batch Analyst: Johnson, Sara E

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-314355/1		8260D		1 uL	1 uL				
CCVIS 410-314355/3		8260D		25 mL	25 mL				2663
LCS 410-314355/4		8260D		25 mL	25 mL				2663
MB 410-314355/6		8260D		25 mL	25 mL				2663
410-103501-A-14	HD-QC1-0/1-2	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-103501-A-1	HD-COD-SW-6-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-103501-A-2	HD-COD-SW-7-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-103501-A-3	HD-COD-SW-8-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-103501-A-4	HD-COD-SW-9-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-103501-A-5	HD-COD-SW-13-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-103501-A-6	HD-COD-SW-15-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-103501-A-6 MS	HD-COD-SW-15-0/1-0MS	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-103501-A-6 MSD	HD-COD-SW-15-0/1-0MSD	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-103501-A-7	HD-COD-SW-16-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-103501-A-8	HD-COD-SW-17-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-103501-A-9	HD-COD-SW-26-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-103501-A-10	HD-COD-SW-27-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-103501-A-11	HD-COD-SW-28-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-103501-A-12	HD-COD-SW-29-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-103501-A-13	HD-QC1-0/1-1	8260D	T	25 mL	25 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCS_ETBR 00003	MSV_29_826ISS 00039	MSV_LCS_ACROL 00082	MSV_LCS_EE 00003	MSV_LCS_Penta 00021	MSV_LCS_VOC#1 00080

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 Laboratorie Job No.: 410-103501-1

SDG No.:

Batch Number: 314355 Batch Start Date: 11/06/22 10:54 Batch Analyst: Johnson, Sara E

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCS_ETBR 00003	MSV_29_826ISS 00039	MSV_LCS_ACROL 00082	MSV_LCS_EE 00003	MSV_LCS_Penta 00021	MSV_LCS_VOC#1 00080
BFB 410-314355/1		8260D							
CCVIS 410-314355/3		8260D			1 uL				
LCS 410-314355/4		8260D		12.5 uL	1 uL	12.5 uL	12.5 uL		12.5 uL
MB 410-314355/6		8260D			1 uL				
410-103501-A-14	HD-QC1-0/1-2	8260D	T		1 uL				
410-103501-A-1	HD-COD-SW-6-0/1-0	8260D	T		1 uL				
410-103501-A-2	HD-COD-SW-7-0/1-0	8260D	T		1 uL				
410-103501-A-3	HD-COD-SW-8-0/1-0	8260D	T		1 uL				
410-103501-A-4	HD-COD-SW-9-0/1-0	8260D	T		1 uL				
410-103501-A-5	HD-COD-SW-13-0/1-0	8260D	T		1 uL				
410-103501-A-6	HD-COD-SW-15-0/1-0	8260D	T		1 uL				
410-103501-A-6 MS	HD-COD-SW-15-0/1-0MS	8260D	T		1 uL	5.38 uL	5.38 uL	5.38 uL	5.38 uL
410-103501-A-6 MSD	HD-COD-SW-15-0/1-0MSD	8260D	T		1 uL	5.38 uL	5.38 uL	5.38 uL	5.38 uL
410-103501-A-7	HD-COD-SW-16-0/1-0	8260D	T		1 uL				
410-103501-A-8	HD-COD-SW-17-0/1-0	8260D	T		1 uL				
410-103501-A-9	HD-COD-SW-26-0/1-0	8260D	T		1 uL				
410-103501-A-10	HD-COD-SW-27-0/1-0	8260D	T		1 uL				
410-103501-A-11	HD-COD-SW-28-0/1-0	8260D	T		1 uL				
410-103501-A-12	HD-COD-SW-29-0/1-0	8260D	T		1 uL				
410-103501-A-13	HD-QC1-0/1-1	8260D	T		1 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_#1_826 00058	MSV_LL_#2_826 00062	MSV_LL_GAS826 00120	MSV_QC_Gas826 00107	MSV_V_BFB 00008	

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 Laboratorie Job No.: 410-103501-1

SDG No.:

Batch Number: 314355 Batch Start Date: 11/06/22 10:54 Batch Analyst: Johnson, Sara E

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_#1_826 00058	MSV_LL_#2_826 00062	MSV_LL_GAS826 00120	MSV_QC_Gas826 00107	MSV_V_BFB 00008	
BFB 410-314355/1		8260D						1 uL	
CCVIS 410-314355/3		8260D		20 uL	20 uL	20 uL			
LCS 410-314355/4		8260D					12.5 uL		
MB 410-314355/6		8260D							
410-103501-A-14	HD-QC1-0/1-2	8260D	T						
410-103501-A-1	HD-COD-SW-6-0/1-0	8260D	T						
410-103501-A-2	HD-COD-SW-7-0/1-0	8260D	T						
410-103501-A-3	HD-COD-SW-8-0/1-0	8260D	T						
410-103501-A-4	HD-COD-SW-9-0/1-0	8260D	T						
410-103501-A-5	HD-COD-SW-13-0/1-0	8260D	T						
410-103501-A-6	HD-COD-SW-15-0/1-0	8260D	T						
410-103501-A-6 MS	HD-COD-SW-15-0/1-0MS	8260D	T				5.38 uL		
410-103501-A-6 MSD	HD-COD-SW-15-0/1-0MSD	8260D	T				5.38 uL		
410-103501-A-7	HD-COD-SW-16-0/1-0	8260D	T						
410-103501-A-8	HD-COD-SW-17-0/1-0	8260D	T						
410-103501-A-9	HD-COD-SW-26-0/1-0	8260D	T						
410-103501-A-10	HD-COD-SW-27-0/1-0	8260D	T						
410-103501-A-11	HD-COD-SW-28-0/1-0	8260D	T						
410-103501-A-12	HD-COD-SW-29-0/1-0	8260D	T						
410-103501-A-13	HD-QC1-0/1-1	8260D	T						

Batch Notes	

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 Laboratorie Job No.: 410-103501-1

SDG No.:

Batch Number: 314355 Batch Start Date: 11/06/22 10:54 Batch Analyst: Johnson, Sara E

Batch Method: 8260D Batch End Date:

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-103501-1

SDG No.:

Batch Number: 315144 Batch Start Date: 11/08/22 10:45 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-315144/1		8260D		1 uL	1 uL				
CCVIS 410-315144/3		8260D		25 mL	25 mL				2663
LCS 410-315144/5		8260D		25 mL	25 mL				2663
LCSD 410-315144/6		8260D		25 mL	25 mL				2663
MB 410-315144/10		8260D		25 mL	25 mL				2663
410-103501-B-8	HD-COD-SW-17-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	2663
410-103501-B-13	HD-QC1-0/1-1	8260D	T	25 mL	25 mL	<2 SU	N	N	2663

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_ACROL 00083	MSV_LCS_EE 00003	MSV_LCS_Penta 00021	MSV_LCS_VOC#1 00081	MSV_LL_#1_826 00058	MSV_LL_#2_826 00061
BFB 410-315144/1		8260D							
CCVIS 410-315144/3		8260D						20 uL	20 uL
LCS 410-315144/5		8260D		12.5 uL	12.5 uL	12.5 uL	12.5 uL		
LCSD 410-315144/6		8260D		12.5 uL	12.5 uL	12.5 uL	12.5 uL		
MB 410-315144/10		8260D							
410-103501-B-8	HD-COD-SW-17-0/1-0	8260D	T						
410-103501-B-13	HD-QC1-0/1-1	8260D	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_GAS826 00120	MSV_LLcentISS 00005	MSV_QC_Gas826 00108	MSV_V_BFB 00008		
BFB 410-315144/1		8260D					1 uL		
CCVIS 410-315144/3		8260D		20 uL	5 uL				
LCS 410-315144/5		8260D			5 uL	12.5 uL			
LCSD 410-315144/6		8260D			5 uL	12.5 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-103501-1

SDG No.:

Batch Number: 315144 Batch Start Date: 11/08/22 10:45 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_GAS826 00120	MSV_LLcentISS 00005	MSV_QC_Gas826 00108	MSV_V_BFB 00008		
MB 410-315144/10		8260D			5 uL				
410-103501-B-8	HD-COD-SW-17-0/1 -0	8260D	T		5 uL				
410-103501-B-13	HD-QC1-0/1-1	8260D	T		5 uL				

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

410-103501 Chain of Custody

Environmental Analysis Request/Chain of Custody

370472
HARRISBURG PA

pg. 1 of 2

Acct. # _____ Group # _____ Sample # _____

Client:	Groundwater Sciences Corporation		
Project Name/#:	fYNOP Monthly Surface Water	Site ID #:	fYNOP, York PA
Project Manager:	Chris O'Neil	P.O. #:	10012.49
Sampler:	Casey Littlefield / Jason Fritz	PWSID #:	N/A
Phone #:	(717) 901-8176 / (717) 756-1246	Quote #:	
State where samples were collected: York, PA		For Compliance: Yes ☐ No ☑	

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil ☐ Sediment ☐ Tissue ☐	Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☑	Other:	Total # of Containers	Analyses Requested: Aqueous VOCs via 8260D (low level - 25 ml purge)	Preservation Codes: H
HD-COD-SW-6-0/1-0	10/27/22	1020	X			X		3	X	
HD-COD-SW-7-0/1-0		1100	X			X		3	X	
HD-COD-SW-8-0/1-0		0915	X			X		3	X	
HD-COD-SW-9-0/1-0		1240	X			X		3	X	
HD-COD-SW-13-0/1-0		0930	X			X		3	X	
HD-COD-SW-15-0/1-0		1125	X			X		3	X	
HD-COD-SW-15-0/1-0 MS		1125	X			X		3	X	
HD-COD-SW-15-0/1-0 MSD		1125	X			X		3	X	
HD-COD-SW-16-0/1-0		0950	X			X		3	X	
HD-COD-SW-17-0/1-0		0955	X			X		3	X	

For Lab Use Only
SF #: _____
SCR #: _____

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
O = Other

Remarks

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: ON-FILE

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category	☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: _ CLP Like Deliverables, Project Specific Analyte List

Relinquished by:	Date	Time	Received by:	Date	Time
	10/27/22	1355		10/27/22	1355
	10/27/22	14:30		10/27/22	14:30
	10/27/22	15:34			
Relinquished by Commercial Carrier:			Temperature upon receipt 3.1 °C		

UPS _____ FedEx _____ Other _____

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7045 0216

Environmental Analysis Request/Chain of Custody

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Acct # _____ Group # _____ Sample # 570472

HARRISBURG PA

Client:	Groundwater Sciences Corporation		
Project Name/#:	fYNOP Monthly Surface Water	Site ID #:	fYNOP, York PA
Project Manager:	Chris O'Neil	P.O. #:	10012.49
Sampler:	Casey Littlefield / Jason Fritz	PWSID #:	N/A
Phone #:	(717) 901-8176 / (717) 756-1246	Quote #:	
State where samples were collected: York, PA		For Compliance: Yes ☐ No ☑	

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil ☐ Sediment ☐ Tissue ☐	Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☑	Other: Trip Blank	Total # of Containers	Analyses Requested: Aqueous VOCs via 8260D (low level - 25 ml purge)	Preservation Codes: H	Remarks
HD-COD-SW-26-0/1-0	10/27/22	1040	X			X		3	X		
HD-COD-SW-27-0/1-0		1170	X			X		3	X		
HD-COD-SW-28-0/1-0		1300	X			X		3	X		
HD-COD-SW-29-0/1-0		0900	X			X		3	X		
HD-QC1-0/1-1		1005	X			X		3	X		
HD-QC1-0/1-2		—	X				X	2	X		Trip Blank

For Lab Use Only

SF #: _____

SCR #: _____

Preservation Codes

H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☒ Phone ☐

E-mail Address: ON - FILE

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category	☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: _____ CLP Like Deliverables, Project Specific Analyte List

	Relinquished by:	Date	Time	Received by:	Date	Time
1		10/27/22	1355		10/27/22	1355
2		10/27/22	14:30		10/27/22	14:30
3		10/27/22	15:34			
4						
5					10/27/22	1534

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 3.1 °C

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-103501-1

Login Number: 103501
List Number: 1
Creator: Jeremiah, Cory T

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-103501-1

Login Number: 103501
List Number: 2
Creator: Metzger, Katherine A

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

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

Authorization

Generated
11/21/2022 12:36 PM
Revision 1

Authorized for release by
Marrissa C Williams, Project Manager
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717 556-7246