ANALYTICAL REPORT

Job Number: 410-45147-1

Job Description: fYNOP Monthly Surface Water

For:
Groundwater Sciences Corporation
2601 Market Place Street, Suite 310
Harrisburg, PA 17110-9307

Attention: Christopher O'Neil

Approved for release.
Marrissa C Williams
Project Manager
7/11/2021 9:08 PM

Marrissa C Williams, Project Manager
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07/11/2021

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.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^c	CCV Recovery is outside acceptance limits.
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

Job Narrative
410-45147-1

Receipt
The samples were received on 6/25/2021 4:02 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -0.2°C

GC/MS VOA
Method 8260D_LL: The following analyte(s) recovered outside control limits for the LCS/LCSD associated with analytical batch 410-145209: Chloromethane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-145209 recovered above the upper control limit for 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone (MIBK), Chloromethane and Vinyl chloride. Non-detections of the affected analytes are reported. Any detections are considered estimated.

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

Detection Summary

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

Job ID: 410-45147-1

Client Sample ID: HD-COD-SW-6-0/1-0 — Lab Sample ID: 410-45147-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.9	J	5.0	0.90	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.088	J	0.50	0.050	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-7-0/1-0 — Lab Sample ID: 410-45147-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.4	J	5.0	0.90	ug/L	1		8260D	Total/NA
Chloroform	0.10	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.11	J	0.50	0.050	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.076	J	0.50	0.060	ug/L	1		8260D	Total/NA
Trichloroethene	0.094	J	0.50	0.060	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-8-0/1-0 — Lab Sample ID: 410-45147-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.2	J	5.0	0.90	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.12	J	0.50	0.050	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-9-0/1-0 — Lab Sample ID: 410-45147-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	2.3	J ^c	5.0	0.60	ug/L	1		8260D	Total/NA
Acetone	6.3		5.0	0.90	ug/L	1		8260D	Total/NA
Carbon disulfide	0.064	J	1.0	0.060	ug/L	1		8260D	Total/NA
Chloroform	0.10	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.11	J	0.50	0.050	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.085	J	0.50	0.060	ug/L	1		8260D	Total/NA
Toluene	0.15	J	0.50	0.070	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-13-0/1-0 — Lab Sample ID: 410-45147-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.9	J	5.0	0.90	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.13	J	0.50	0.050	ug/L	1		8260D	Total/NA
Trichloroethene	0.10	J	0.50	0.060	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-15-0/1-0 — Lab Sample ID: 410-45147-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.11	J	0.50	0.060	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.090	J	0.50	0.060	ug/L	1		8260D	Total/NA
Chloroform	0.30	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.66		0.50	0.050	ug/L	1		8260D	Total/NA
Methyl tert-butyl ether	0.050	J	0.50	0.050	ug/L	1		8260D	Total/NA
Tetrachloroethene	2.2		0.50	0.060	ug/L	1		8260D	Total/NA
Trichloroethene	0.80		0.50	0.060	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-16-0/1-0 — Lab Sample ID: 410-45147-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.0	J	5.0	0.90	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: 410-45147-1

Client Sample ID: HD-COD-SW-17-0/1-0 — Lab Sample ID: 410-45147-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.12	J	0.50	0.060	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.085	J	0.50	0.060	ug/L	1		8260D	Total/NA
Acetone	1.1	J	5.0	0.90	ug/L	1		8260D	Total/NA
Chloroform	0.28	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.81		0.50	0.050	ug/L	1		8260D	Total/NA
Tetrachloroethene	3.5		0.50	0.060	ug/L	1		8260D	Total/NA
Trichloroethene	1.1		0.50	0.060	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-26-0/1-0 — Lab Sample ID: 410-45147-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.16	J	0.50	0.060	ug/L	1		8260D	Total/NA
Acetone	1.0	J	5.0	0.90	ug/L	1		8260D	Total/NA
Chloroform	0.60		0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.080	J	0.50	0.050	ug/L	1		8260D	Total/NA
Tetrachloroethene	3.2		0.50	0.060	ug/L	1		8260D	Total/NA
Trichloroethene	0.16	J	0.50	0.060	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-27-0/1-0 — Lab Sample ID: 410-45147-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.9	J	5.0	0.90	ug/L	1		8260D	Total/NA
Chloromethane	0.063	J *+ ^c	0.50	0.060	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.11	J	0.50	0.050	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-28-0/1-0 — Lab Sample ID: 410-45147-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.7	J	5.0	0.90	ug/L	1		8260D	Total/NA
Chloroform	0.093	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.073	J	0.50	0.050	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.096	J	0.50	0.060	ug/L	1		8260D	Total/NA
Toluene	0.11	J	0.50	0.070	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-29-0/1-0 — Lab Sample ID: 410-45147-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.4	J	5.0	0.90	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.13	J	0.50	0.050	ug/L	1		8260D	Total/NA
Trichloroethene	0.11	J	0.50	0.060	ug/L	1		8260D	Total/NA

Client Sample ID: HD-QC1-0/1-1 — Lab Sample ID: 410-45147-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.13	J	0.50	0.060	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.10	J	0.50	0.060	ug/L	1		8260D	Total/NA
Chloroform	0.29	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.83		0.50	0.050	ug/L	1		8260D	Total/NA
Tetrachloroethene	3.5		0.50	0.060	ug/L	1		8260D	Total/NA
Trichloroethene	1.3		0.50	0.060	ug/L	1		8260D	Total/NA

Client Sample ID: HD-QC1-0/1-2 — Lab Sample ID: 410-45147-14

No Detections.

This Detection Summary does not include radiochemical test results.

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

Date Collected: 06/24/21 10:55
Date Received: 06/25/21 16:02

Lab Sample ID: 410-45147-1

Matrix: Water

Method: 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			07/06/21 18:02	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			07/06/21 18:02	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/06/21 18:02	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			07/06/21 18:02	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			07/06/21 18:02	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			07/06/21 18:02	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			07/06/21 18:02	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			07/06/21 18:02	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			07/06/21 18:02	1
2-Butanone (MEK)	ND	^c	5.0	0.60	ug/L			07/06/21 18:02	1
2-Hexanone	ND	^c	5.0	0.60	ug/L			07/06/21 18:02	1
4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70	ug/L			07/06/21 18:02	1
Acetone	**1.9**	**J**	5.0	0.90	ug/L			07/06/21 18:02	1
Benzene	ND		0.50	0.050	ug/L			07/06/21 18:02	1
Bromochloromethane	ND		0.50	0.050	ug/L			07/06/21 18:02	1
Bromodichloromethane	ND		0.50	0.050	ug/L			07/06/21 18:02	1
Bromoform	ND		1.0	0.30	ug/L			07/06/21 18:02	1
Bromomethane	ND		0.50	0.070	ug/L			07/06/21 18:02	1
Carbon disulfide	ND		1.0	0.060	ug/L			07/06/21 18:02	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			07/06/21 18:02	1
Chlorobenzene	ND		0.50	0.060	ug/L			07/06/21 18:02	1
Chloroethane	ND		0.50	0.070	ug/L			07/06/21 18:02	1
Chloroform	ND		0.50	0.090	ug/L			07/06/21 18:02	1
Chloromethane	ND	*+ ^c	0.50	0.060	ug/L			07/06/21 18:02	1
cis-1,2-Dichloroethene	**0.088**	**J**	0.50	0.050	ug/L			07/06/21 18:02	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			07/06/21 18:02	1
Dibromochloromethane	ND		0.50	0.070	ug/L			07/06/21 18:02	1
Ethylbenzene	ND		0.50	0.060	ug/L			07/06/21 18:02	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			07/06/21 18:02	1
Methylene Chloride	ND		0.50	0.070	ug/L			07/06/21 18:02	1
Styrene	ND		0.50	0.050	ug/L			07/06/21 18:02	1
Tetrachloroethene	ND		0.50	0.060	ug/L			07/06/21 18:02	1
Toluene	ND		0.50	0.070	ug/L			07/06/21 18:02	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			07/06/21 18:02	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			07/06/21 18:02	1
Trichloroethene	ND		0.50	0.060	ug/L			07/06/21 18:02	1
Vinyl chloride	ND	*+ ^c	0.50	0.10	ug/L			07/06/21 18:02	1
Xylenes, Total	ND		1.0	0.15	ug/L			07/06/21 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*07/06/21 18:02*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*07/06/21 18:02*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*07/06/21 18:02*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*07/06/21 18:02*	*1*

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

Date Collected: 06/24/21 11:20
Date Received: 06/25/21 16:02

Lab Sample ID: 410-45147-2

Matrix: Water

Method: 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			07/06/21 18:25	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			07/06/21 18:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/06/21 18:25	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			07/06/21 18:25	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			07/06/21 18:25	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			07/06/21 18:25	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			07/06/21 18:25	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			07/06/21 18:25	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			07/06/21 18:25	1
2-Butanone (MEK)	ND	^c	5.0	0.60	ug/L			07/06/21 18:25	1
2-Hexanone	ND	^c	5.0	0.60	ug/L			07/06/21 18:25	1
4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70	ug/L			07/06/21 18:25	1
Acetone	**2.4**	**J**	5.0	0.90	ug/L			07/06/21 18:25	1
Benzene	ND		0.50	0.050	ug/L			07/06/21 18:25	1
Bromochloromethane	ND		0.50	0.050	ug/L			07/06/21 18:25	1
Bromodichloromethane	ND		0.50	0.050	ug/L			07/06/21 18:25	1
Bromoform	ND		1.0	0.30	ug/L			07/06/21 18:25	1
Bromomethane	ND		0.50	0.070	ug/L			07/06/21 18:25	1
Carbon disulfide	ND		1.0	0.060	ug/L			07/06/21 18:25	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			07/06/21 18:25	1
Chlorobenzene	ND		0.50	0.060	ug/L			07/06/21 18:25	1
Chloroethane	ND		0.50	0.070	ug/L			07/06/21 18:25	1
Chloroform	**0.10**	**J**	0.50	0.090	ug/L			07/06/21 18:25	1
Chloromethane	ND	*+ ^c	0.50	0.060	ug/L			07/06/21 18:25	1
cis-1,2-Dichloroethene	**0.11**	**J**	0.50	0.050	ug/L			07/06/21 18:25	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			07/06/21 18:25	1
Dibromochloromethane	ND		0.50	0.070	ug/L			07/06/21 18:25	1
Ethylbenzene	ND		0.50	0.060	ug/L			07/06/21 18:25	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			07/06/21 18:25	1
Methylene Chloride	ND		0.50	0.070	ug/L			07/06/21 18:25	1
Styrene	ND		0.50	0.050	ug/L			07/06/21 18:25	1
Tetrachloroethene	**0.076**	**J**	0.50	0.060	ug/L			07/06/21 18:25	1
Toluene	ND		0.50	0.070	ug/L			07/06/21 18:25	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			07/06/21 18:25	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			07/06/21 18:25	1
Trichloroethene	**0.094**	**J**	0.50	0.060	ug/L			07/06/21 18:25	1
Vinyl chloride	ND	*+ ^c	0.50	0.10	ug/L			07/06/21 18:25	1
Xylenes, Total	ND		1.0	0.15	ug/L			07/06/21 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*07/06/21 18:25*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*07/06/21 18:25*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*07/06/21 18:25*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*07/06/21 18:25*	*1*

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

Date Collected: 06/24/21 09:25
Date Received: 06/25/21 16:02

Lab Sample ID: 410-45147-3

Matrix: Water

Method: 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			07/06/21 18:47	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			07/06/21 18:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/06/21 18:47	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			07/06/21 18:47	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			07/06/21 18:47	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			07/06/21 18:47	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			07/06/21 18:47	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			07/06/21 18:47	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			07/06/21 18:47	1
2-Butanone (MEK)	ND	^c	5.0	0.60	ug/L			07/06/21 18:47	1
2-Hexanone	ND	^c	5.0	0.60	ug/L			07/06/21 18:47	1
4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70	ug/L			07/06/21 18:47	1
Acetone	**2.2**	**J**	5.0	0.90	ug/L			07/06/21 18:47	1
Benzene	ND		0.50	0.050	ug/L			07/06/21 18:47	1
Bromochloromethane	ND		0.50	0.050	ug/L			07/06/21 18:47	1
Bromodichloromethane	ND		0.50	0.050	ug/L			07/06/21 18:47	1
Bromoform	ND		1.0	0.30	ug/L			07/06/21 18:47	1
Bromomethane	ND		0.50	0.070	ug/L			07/06/21 18:47	1
Carbon disulfide	ND		1.0	0.060	ug/L			07/06/21 18:47	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			07/06/21 18:47	1
Chlorobenzene	ND		0.50	0.060	ug/L			07/06/21 18:47	1
Chloroethane	ND		0.50	0.070	ug/L			07/06/21 18:47	1
Chloroform	ND		0.50	0.090	ug/L			07/06/21 18:47	1
Chloromethane	ND	*+ ^c	0.50	0.060	ug/L			07/06/21 18:47	1
cis-1,2-Dichloroethene	**0.12**	**J**	0.50	0.050	ug/L			07/06/21 18:47	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			07/06/21 18:47	1
Dibromochloromethane	ND		0.50	0.070	ug/L			07/06/21 18:47	1
Ethylbenzene	ND		0.50	0.060	ug/L			07/06/21 18:47	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			07/06/21 18:47	1
Methylene Chloride	ND		0.50	0.070	ug/L			07/06/21 18:47	1
Styrene	ND		0.50	0.050	ug/L			07/06/21 18:47	1
Tetrachloroethene	ND		0.50	0.060	ug/L			07/06/21 18:47	1
Toluene	ND		0.50	0.070	ug/L			07/06/21 18:47	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			07/06/21 18:47	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			07/06/21 18:47	1
Trichloroethene	ND		0.50	0.060	ug/L			07/06/21 18:47	1
Vinyl chloride	ND	*+ ^c	0.50	0.10	ug/L			07/06/21 18:47	1
Xylenes, Total	ND		1.0	0.15	ug/L			07/06/21 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*07/06/21 18:47*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*07/06/21 18:47*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*07/06/21 18:47*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/06/21 18:47*	*1*

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

Date Collected: 06/24/21 12:30
Date Received: 06/25/21 16:02

Lab Sample ID: 410-45147-4

Matrix: Water

Method: 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			07/06/21 19:09	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			07/06/21 19:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/06/21 19:09	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			07/06/21 19:09	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			07/06/21 19:09	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			07/06/21 19:09	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			07/06/21 19:09	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			07/06/21 19:09	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			07/06/21 19:09	1
2-Butanone (MEK)	**2.3**	**J ^c**	5.0	0.60	ug/L			07/06/21 19:09	1
2-Hexanone	ND	^c	5.0	0.60	ug/L			07/06/21 19:09	1
4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70	ug/L			07/06/21 19:09	1
Acetone	**6.3**		5.0	0.90	ug/L			07/06/21 19:09	1
Benzene	ND		0.50	0.050	ug/L			07/06/21 19:09	1
Bromochloromethane	ND		0.50	0.050	ug/L			07/06/21 19:09	1
Bromodichloromethane	ND		0.50	0.050	ug/L			07/06/21 19:09	1
Bromoform	ND		1.0	0.30	ug/L			07/06/21 19:09	1
Bromomethane	ND		0.50	0.070	ug/L			07/06/21 19:09	1
Carbon disulfide	**0.064**	**J**	1.0	0.060	ug/L			07/06/21 19:09	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			07/06/21 19:09	1
Chlorobenzene	ND		0.50	0.060	ug/L			07/06/21 19:09	1
Chloroethane	ND		0.50	0.070	ug/L			07/06/21 19:09	1
Chloroform	**0.10**	**J**	0.50	0.090	ug/L			07/06/21 19:09	1
Chloromethane	ND	*+ ^c	0.50	0.060	ug/L			07/06/21 19:09	1
cis-1,2-Dichloroethene	**0.11**	**J**	0.50	0.050	ug/L			07/06/21 19:09	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			07/06/21 19:09	1
Dibromochloromethane	ND		0.50	0.070	ug/L			07/06/21 19:09	1
Ethylbenzene	ND		0.50	0.060	ug/L			07/06/21 19:09	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			07/06/21 19:09	1
Methylene Chloride	ND		0.50	0.070	ug/L			07/06/21 19:09	1
Styrene	ND		0.50	0.050	ug/L			07/06/21 19:09	1
Tetrachloroethene	**0.085**	**J**	0.50	0.060	ug/L			07/06/21 19:09	1
Toluene	**0.15**	**J**	0.50	0.070	ug/L			07/06/21 19:09	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			07/06/21 19:09	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			07/06/21 19:09	1
Trichloroethene	ND		0.50	0.060	ug/L			07/06/21 19:09	1
Vinyl chloride	ND	*+ ^c	0.50	0.10	ug/L			07/06/21 19:09	1
Xylenes, Total	ND		1.0	0.15	ug/L			07/06/21 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*07/06/21 19:09*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*07/06/21 19:09*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*07/06/21 19:09*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/06/21 19:09*	*1*

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

Date Collected: 06/24/21 09:40
Date Received: 06/25/21 16:02

Lab Sample ID: 410-45147-5

Matrix: Water

Method: 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			07/06/21 19:32	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			07/06/21 19:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/06/21 19:32	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			07/06/21 19:32	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			07/06/21 19:32	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			07/06/21 19:32	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			07/06/21 19:32	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			07/06/21 19:32	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			07/06/21 19:32	1
2-Butanone (MEK)	ND	^c	5.0	0.60	ug/L			07/06/21 19:32	1
2-Hexanone	ND	^c	5.0	0.60	ug/L			07/06/21 19:32	1
4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70	ug/L			07/06/21 19:32	1
Acetone	**1.9**	**J**	5.0	0.90	ug/L			07/06/21 19:32	1
Benzene	ND		0.50	0.050	ug/L			07/06/21 19:32	1
Bromochloromethane	ND		0.50	0.050	ug/L			07/06/21 19:32	1
Bromodichloromethane	ND		0.50	0.050	ug/L			07/06/21 19:32	1
Bromoform	ND		1.0	0.30	ug/L			07/06/21 19:32	1
Bromomethane	ND		0.50	0.070	ug/L			07/06/21 19:32	1
Carbon disulfide	ND		1.0	0.060	ug/L			07/06/21 19:32	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			07/06/21 19:32	1
Chlorobenzene	ND		0.50	0.060	ug/L			07/06/21 19:32	1
Chloroethane	ND		0.50	0.070	ug/L			07/06/21 19:32	1
Chloroform	ND		0.50	0.090	ug/L			07/06/21 19:32	1
Chloromethane	ND	*+ ^c	0.50	0.060	ug/L			07/06/21 19:32	1
cis-1,2-Dichloroethene	**0.13**	**J**	0.50	0.050	ug/L			07/06/21 19:32	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			07/06/21 19:32	1
Dibromochloromethane	ND		0.50	0.070	ug/L			07/06/21 19:32	1
Ethylbenzene	ND		0.50	0.060	ug/L			07/06/21 19:32	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			07/06/21 19:32	1
Methylene Chloride	ND		0.50	0.070	ug/L			07/06/21 19:32	1
Styrene	ND		0.50	0.050	ug/L			07/06/21 19:32	1
Tetrachloroethene	ND		0.50	0.060	ug/L			07/06/21 19:32	1
Toluene	ND		0.50	0.070	ug/L			07/06/21 19:32	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			07/06/21 19:32	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			07/06/21 19:32	1
Trichloroethene	**0.10**	**J**	0.50	0.060	ug/L			07/06/21 19:32	1
Vinyl chloride	ND	*+ ^c	0.50	0.10	ug/L			07/06/21 19:32	1
Xylenes, Total	ND		1.0	0.15	ug/L			07/06/21 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*07/06/21 19:32*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*07/06/21 19:32*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*07/06/21 19:32*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/06/21 19:32*	*1*

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

Date Collected: 06/24/21 11:40
Date Received: 06/25/21 16:02

Lab Sample ID: 410-45147-6

Matrix: Water

Method: 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			07/06/21 13:35	1
1,1,1-Trichloroethane	**0.11**	**J**	0.50	0.060	ug/L			07/06/21 13:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/06/21 13:35	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			07/06/21 13:35	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			07/06/21 13:35	1
1,1-Dichloroethene	**0.090**	**J**	0.50	0.060	ug/L			07/06/21 13:35	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			07/06/21 13:35	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			07/06/21 13:35	1
1,2-Dichloropropane	ND	FH	0.50	0.060	ug/L			07/06/21 13:35	1
2-Butanone (MEK)	ND	^c FH	5.0	0.60	ug/L			07/06/21 13:35	1
2-Hexanone	ND	^c FH	5.0	0.60	ug/L			07/06/21 13:35	1
4-Methyl-2-pentanone (MIBK)	ND	^c FH	5.0	0.70	ug/L			07/06/21 13:35	1
Acetone	ND		5.0	0.90	ug/L			07/06/21 13:35	1
Benzene	ND		0.50	0.050	ug/L			07/06/21 13:35	1
Bromochloromethane	ND		0.50	0.050	ug/L			07/06/21 13:35	1
Bromodichloromethane	ND		0.50	0.050	ug/L			07/06/21 13:35	1
Bromoform	ND		1.0	0.30	ug/L			07/06/21 13:35	1
Bromomethane	ND		0.50	0.070	ug/L			07/06/21 13:35	1
Carbon disulfide	ND	FH	1.0	0.060	ug/L			07/06/21 13:35	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			07/06/21 13:35	1
Chlorobenzene	ND		0.50	0.060	ug/L			07/06/21 13:35	1
Chloroethane	ND	FH	0.50	0.070	ug/L			07/06/21 13:35	1
Chloroform	**0.30**	**J**	0.50	0.090	ug/L			07/06/21 13:35	1
Chloromethane	ND	*+ ^c FH	0.50	0.060	ug/L			07/06/21 13:35	1
cis-1,2-Dichloroethene	**0.66**		0.50	0.050	ug/L			07/06/21 13:35	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			07/06/21 13:35	1
Dibromochloromethane	ND		0.50	0.070	ug/L			07/06/21 13:35	1
Ethylbenzene	ND		0.50	0.060	ug/L			07/06/21 13:35	1
Methyl tert-butyl ether	**0.050**	**J**	0.50	0.050	ug/L			07/06/21 13:35	1
Methylene Chloride	ND		0.50	0.070	ug/L			07/06/21 13:35	1
Styrene	ND		0.50	0.050	ug/L			07/06/21 13:35	1
Tetrachloroethene	**2.2**		0.50	0.060	ug/L			07/06/21 13:35	1
Toluene	ND		0.50	0.070	ug/L			07/06/21 13:35	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			07/06/21 13:35	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			07/06/21 13:35	1
Trichloroethene	**0.80**		0.50	0.060	ug/L			07/06/21 13:35	1
Vinyl chloride	ND	*+ ^c FH	0.50	0.10	ug/L			07/06/21 13:35	1
Xylenes, Total	ND		1.0	0.15	ug/L			07/06/21 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*07/06/21 13:35*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*07/06/21 13:35*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*07/06/21 13:35*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/06/21 13:35*	*1*

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

Date Collected: 06/24/21 09:55
Date Received: 06/25/21 16:02

Lab Sample ID: 410-45147-7

Matrix: Water

Method: 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			07/06/21 19:54	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			07/06/21 19:54	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/06/21 19:54	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			07/06/21 19:54	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			07/06/21 19:54	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			07/06/21 19:54	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			07/06/21 19:54	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			07/06/21 19:54	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			07/06/21 19:54	1
2-Butanone (MEK)	ND	^c	5.0	0.60	ug/L			07/06/21 19:54	1
2-Hexanone	ND	^c	5.0	0.60	ug/L			07/06/21 19:54	1
4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70	ug/L			07/06/21 19:54	1
Acetone	**2.0**	**J**	5.0	0.90	ug/L			07/06/21 19:54	1
Benzene	ND		0.50	0.050	ug/L			07/06/21 19:54	1
Bromochloromethane	ND		0.50	0.050	ug/L			07/06/21 19:54	1
Bromodichloromethane	ND		0.50	0.050	ug/L			07/06/21 19:54	1
Bromoform	ND		1.0	0.30	ug/L			07/06/21 19:54	1
Bromomethane	ND		0.50	0.070	ug/L			07/06/21 19:54	1
Carbon disulfide	ND		1.0	0.060	ug/L			07/06/21 19:54	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			07/06/21 19:54	1
Chlorobenzene	ND		0.50	0.060	ug/L			07/06/21 19:54	1
Chloroethane	ND		0.50	0.070	ug/L			07/06/21 19:54	1
Chloroform	ND		0.50	0.090	ug/L			07/06/21 19:54	1
Chloromethane	ND	*+ ^c	0.50	0.060	ug/L			07/06/21 19:54	1
cis-1,2-Dichloroethene	ND		0.50	0.050	ug/L			07/06/21 19:54	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			07/06/21 19:54	1
Dibromochloromethane	ND		0.50	0.070	ug/L			07/06/21 19:54	1
Ethylbenzene	ND		0.50	0.060	ug/L			07/06/21 19:54	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			07/06/21 19:54	1
Methylene Chloride	ND		0.50	0.070	ug/L			07/06/21 19:54	1
Styrene	ND		0.50	0.050	ug/L			07/06/21 19:54	1
Tetrachloroethene	ND		0.50	0.060	ug/L			07/06/21 19:54	1
Toluene	ND		0.50	0.070	ug/L			07/06/21 19:54	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			07/06/21 19:54	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			07/06/21 19:54	1
Trichloroethene	ND		0.50	0.060	ug/L			07/06/21 19:54	1
Vinyl chloride	ND	*+ ^c	0.50	0.10	ug/L			07/06/21 19:54	1
Xylenes, Total	ND		1.0	0.15	ug/L			07/06/21 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*07/06/21 19:54*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*07/06/21 19:54*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*07/06/21 19:54*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*07/06/21 19:54*	*1*

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

Date Collected: 06/24/21 10:05
Date Received: 06/25/21 16:02

Lab Sample ID: 410-45147-8

Matrix: Water

Method: 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			07/06/21 20:16	1
1,1,1-Trichloroethane	**0.12**	**J**	0.50	0.060	ug/L			07/06/21 20:16	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/06/21 20:16	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			07/06/21 20:16	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			07/06/21 20:16	1
1,1-Dichloroethene	**0.085**	**J**	0.50	0.060	ug/L			07/06/21 20:16	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			07/06/21 20:16	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			07/06/21 20:16	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			07/06/21 20:16	1
2-Butanone (MEK)	ND	^c	5.0	0.60	ug/L			07/06/21 20:16	1
2-Hexanone	ND	^c	5.0	0.60	ug/L			07/06/21 20:16	1
4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70	ug/L			07/06/21 20:16	1
Acetone	**1.1**	**J**	5.0	0.90	ug/L			07/06/21 20:16	1
Benzene	ND		0.50	0.050	ug/L			07/06/21 20:16	1
Bromochloromethane	ND		0.50	0.050	ug/L			07/06/21 20:16	1
Bromodichloromethane	ND		0.50	0.050	ug/L			07/06/21 20:16	1
Bromoform	ND		1.0	0.30	ug/L			07/06/21 20:16	1
Bromomethane	ND		0.50	0.070	ug/L			07/06/21 20:16	1
Carbon disulfide	ND		1.0	0.060	ug/L			07/06/21 20:16	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			07/06/21 20:16	1
Chlorobenzene	ND		0.50	0.060	ug/L			07/06/21 20:16	1
Chloroethane	ND		0.50	0.070	ug/L			07/06/21 20:16	1
Chloroform	**0.28**	**J**	0.50	0.090	ug/L			07/06/21 20:16	1
Chloromethane	ND	^c *+	0.50	0.060	ug/L			07/06/21 20:16	1
cis-1,2-Dichloroethene	**0.81**		0.50	0.050	ug/L			07/06/21 20:16	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			07/06/21 20:16	1
Dibromochloromethane	ND		0.50	0.070	ug/L			07/06/21 20:16	1
Ethylbenzene	ND		0.50	0.060	ug/L			07/06/21 20:16	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			07/06/21 20:16	1
Methylene Chloride	ND		0.50	0.070	ug/L			07/06/21 20:16	1
Styrene	ND		0.50	0.050	ug/L			07/06/21 20:16	1
Tetrachloroethene	**3.5**		0.50	0.060	ug/L			07/06/21 20:16	1
Toluene	ND		0.50	0.070	ug/L			07/06/21 20:16	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			07/06/21 20:16	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			07/06/21 20:16	1
Trichloroethene	**1.1**		0.50	0.060	ug/L			07/06/21 20:16	1
Vinyl chloride	ND	^c *+	0.50	0.10	ug/L			07/06/21 20:16	1
Xylenes, Total	ND		1.0	0.15	ug/L			07/06/21 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*07/06/21 20:16*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*07/06/21 20:16*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*07/06/21 20:16*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/06/21 20:16*	*1*

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

Date Collected: 06/24/21 11:10
Date Received: 06/25/21 16:02

Lab Sample ID: 410-45147-9

Matrix: Water

Method: 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			07/06/21 20:38	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			07/06/21 20:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/06/21 20:38	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			07/06/21 20:38	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			07/06/21 20:38	1
1,1-Dichloroethene	**0.16**	**J**	0.50	0.060	ug/L			07/06/21 20:38	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			07/06/21 20:38	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			07/06/21 20:38	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			07/06/21 20:38	1
2-Butanone (MEK)	ND	^c	5.0	0.60	ug/L			07/06/21 20:38	1
2-Hexanone	ND	^c	5.0	0.60	ug/L			07/06/21 20:38	1
4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70	ug/L			07/06/21 20:38	1
Acetone	**1.0**	**J**	5.0	0.90	ug/L			07/06/21 20:38	1
Benzene	ND		0.50	0.050	ug/L			07/06/21 20:38	1
Bromochloromethane	ND		0.50	0.050	ug/L			07/06/21 20:38	1
Bromodichloromethane	ND		0.50	0.050	ug/L			07/06/21 20:38	1
Bromoform	ND		1.0	0.30	ug/L			07/06/21 20:38	1
Bromomethane	ND		0.50	0.070	ug/L			07/06/21 20:38	1
Carbon disulfide	ND		1.0	0.060	ug/L			07/06/21 20:38	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			07/06/21 20:38	1
Chlorobenzene	ND		0.50	0.060	ug/L			07/06/21 20:38	1
Chloroethane	ND		0.50	0.070	ug/L			07/06/21 20:38	1
Chloroform	**0.60**		0.50	0.090	ug/L			07/06/21 20:38	1
Chloromethane	ND	*+ ^c	0.50	0.060	ug/L			07/06/21 20:38	1
cis-1,2-Dichloroethene	**0.080**	**J**	0.50	0.050	ug/L			07/06/21 20:38	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			07/06/21 20:38	1
Dibromochloromethane	ND		0.50	0.070	ug/L			07/06/21 20:38	1
Ethylbenzene	ND		0.50	0.060	ug/L			07/06/21 20:38	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			07/06/21 20:38	1
Methylene Chloride	ND		0.50	0.070	ug/L			07/06/21 20:38	1
Styrene	ND		0.50	0.050	ug/L			07/06/21 20:38	1
Tetrachloroethene	**3.2**		0.50	0.060	ug/L			07/06/21 20:38	1
Toluene	ND		0.50	0.070	ug/L			07/06/21 20:38	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			07/06/21 20:38	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			07/06/21 20:38	1
Trichloroethene	**0.16**	**J**	0.50	0.060	ug/L			07/06/21 20:38	1
Vinyl chloride	ND	*+ ^c	0.50	0.10	ug/L			07/06/21 20:38	1
Xylenes, Total	ND		1.0	0.15	ug/L			07/06/21 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*07/06/21 20:38*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*07/06/21 20:38*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*07/06/21 20:38*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/06/21 20:38*	*1*

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

Date Collected: 06/24/21 11:30
Date Received: 06/25/21 16:02

Lab Sample ID: 410-45147-10

Matrix: Water

Method: 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			07/06/21 21:00	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			07/06/21 21:00	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/06/21 21:00	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			07/06/21 21:00	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			07/06/21 21:00	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			07/06/21 21:00	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			07/06/21 21:00	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			07/06/21 21:00	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			07/06/21 21:00	1
2-Butanone (MEK)	ND	^c	5.0	0.60	ug/L			07/06/21 21:00	1
2-Hexanone	ND	^c	5.0	0.60	ug/L			07/06/21 21:00	1
4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70	ug/L			07/06/21 21:00	1
Acetone	**2.9**	**J**	5.0	0.90	ug/L			07/06/21 21:00	1
Benzene	ND		0.50	0.050	ug/L			07/06/21 21:00	1
Bromochloromethane	ND		0.50	0.050	ug/L			07/06/21 21:00	1
Bromodichloromethane	ND		0.50	0.050	ug/L			07/06/21 21:00	1
Bromoform	ND		1.0	0.30	ug/L			07/06/21 21:00	1
Bromomethane	ND		0.50	0.070	ug/L			07/06/21 21:00	1
Carbon disulfide	ND		1.0	0.060	ug/L			07/06/21 21:00	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			07/06/21 21:00	1
Chlorobenzene	ND		0.50	0.060	ug/L			07/06/21 21:00	1
Chloroethane	ND		0.50	0.070	ug/L			07/06/21 21:00	1
Chloroform	ND		0.50	0.090	ug/L			07/06/21 21:00	1
Chloromethane	**0.063**	**J *+ ^c**	0.50	0.060	ug/L			07/06/21 21:00	1
cis-1,2-Dichloroethene	**0.11**	**J**	0.50	0.050	ug/L			07/06/21 21:00	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			07/06/21 21:00	1
Dibromochloromethane	ND		0.50	0.070	ug/L			07/06/21 21:00	1
Ethylbenzene	ND		0.50	0.060	ug/L			07/06/21 21:00	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			07/06/21 21:00	1
Methylene Chloride	ND		0.50	0.070	ug/L			07/06/21 21:00	1
Styrene	ND		0.50	0.050	ug/L			07/06/21 21:00	1
Tetrachloroethene	ND		0.50	0.060	ug/L			07/06/21 21:00	1
Toluene	ND		0.50	0.070	ug/L			07/06/21 21:00	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			07/06/21 21:00	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			07/06/21 21:00	1
Trichloroethene	ND		0.50	0.060	ug/L			07/06/21 21:00	1
Vinyl chloride	ND	*+ ^c	0.50	0.10	ug/L			07/06/21 21:00	1
Xylenes, Total	ND		1.0	0.15	ug/L			07/06/21 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*07/06/21 21:00*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*07/06/21 21:00*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*07/06/21 21:00*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/06/21 21:00*	*1*

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

Date Collected: 06/24/21 12:45
Date Received: 06/25/21 16:02

Lab Sample ID: 410-45147-11

Matrix: Water

Method: 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			07/07/21 18:53	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			07/07/21 18:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/07/21 18:53	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			07/07/21 18:53	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			07/07/21 18:53	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			07/07/21 18:53	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			07/07/21 18:53	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			07/07/21 18:53	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			07/07/21 18:53	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			07/07/21 18:53	1
2-Hexanone	ND		5.0	0.60	ug/L			07/07/21 18:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			07/07/21 18:53	1
Acetone	**1.7**	**J**	5.0	0.90	ug/L			07/07/21 18:53	1
Benzene	ND		0.50	0.050	ug/L			07/07/21 18:53	1
Bromochloromethane	ND		0.50	0.050	ug/L			07/07/21 18:53	1
Bromodichloromethane	ND		0.50	0.050	ug/L			07/07/21 18:53	1
Bromoform	ND		1.0	0.30	ug/L			07/07/21 18:53	1
Bromomethane	ND		0.50	0.070	ug/L			07/07/21 18:53	1
Carbon disulfide	ND		1.0	0.060	ug/L			07/07/21 18:53	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			07/07/21 18:53	1
Chlorobenzene	ND		0.50	0.060	ug/L			07/07/21 18:53	1
Chloroethane	ND		0.50	0.070	ug/L			07/07/21 18:53	1
Chloroform	**0.093**	**J**	0.50	0.090	ug/L			07/07/21 18:53	1
Chloromethane	ND		0.50	0.060	ug/L			07/07/21 18:53	1
cis-1,2-Dichloroethene	**0.073**	**J**	0.50	0.050	ug/L			07/07/21 18:53	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			07/07/21 18:53	1
Dibromochloromethane	ND		0.50	0.070	ug/L			07/07/21 18:53	1
Ethylbenzene	ND		0.50	0.060	ug/L			07/07/21 18:53	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			07/07/21 18:53	1
Methylene Chloride	ND		0.50	0.070	ug/L			07/07/21 18:53	1
Styrene	ND		0.50	0.050	ug/L			07/07/21 18:53	1
Tetrachloroethene	**0.096**	**J**	0.50	0.060	ug/L			07/07/21 18:53	1
Toluene	**0.11**	**J**	0.50	0.070	ug/L			07/07/21 18:53	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			07/07/21 18:53	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			07/07/21 18:53	1
Trichloroethene	ND		0.50	0.060	ug/L			07/07/21 18:53	1
Vinyl chloride	ND		0.50	0.10	ug/L			07/07/21 18:53	1
Xylenes, Total	ND		1.0	0.15	ug/L			07/07/21 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*07/07/21 18:53*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*07/07/21 18:53*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*07/07/21 18:53*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/07/21 18:53*	*1*

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

Date Collected: 06/24/21 09:10
Date Received: 06/25/21 16:02

Lab Sample ID: 410-45147-12

Matrix: Water

Method: 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			07/07/21 19:13	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			07/07/21 19:13	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/07/21 19:13	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			07/07/21 19:13	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			07/07/21 19:13	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			07/07/21 19:13	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			07/07/21 19:13	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			07/07/21 19:13	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			07/07/21 19:13	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			07/07/21 19:13	1
2-Hexanone	ND		5.0	0.60	ug/L			07/07/21 19:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			07/07/21 19:13	1
Acetone	**1.4**	**J**	5.0	0.90	ug/L			07/07/21 19:13	1
Benzene	ND		0.50	0.050	ug/L			07/07/21 19:13	1
Bromochloromethane	ND		0.50	0.050	ug/L			07/07/21 19:13	1
Bromodichloromethane	ND		0.50	0.050	ug/L			07/07/21 19:13	1
Bromoform	ND		1.0	0.30	ug/L			07/07/21 19:13	1
Bromomethane	ND		0.50	0.070	ug/L			07/07/21 19:13	1
Carbon disulfide	ND		1.0	0.060	ug/L			07/07/21 19:13	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			07/07/21 19:13	1
Chlorobenzene	ND		0.50	0.060	ug/L			07/07/21 19:13	1
Chloroethane	ND		0.50	0.070	ug/L			07/07/21 19:13	1
Chloroform	ND		0.50	0.090	ug/L			07/07/21 19:13	1
Chloromethane	ND		0.50	0.060	ug/L			07/07/21 19:13	1
cis-1,2-Dichloroethene	**0.13**	**J**	0.50	0.050	ug/L			07/07/21 19:13	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			07/07/21 19:13	1
Dibromochloromethane	ND		0.50	0.070	ug/L			07/07/21 19:13	1
Ethylbenzene	ND		0.50	0.060	ug/L			07/07/21 19:13	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			07/07/21 19:13	1
Methylene Chloride	ND		0.50	0.070	ug/L			07/07/21 19:13	1
Styrene	ND		0.50	0.050	ug/L			07/07/21 19:13	1
Tetrachloroethene	ND		0.50	0.060	ug/L			07/07/21 19:13	1
Toluene	ND		0.50	0.070	ug/L			07/07/21 19:13	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			07/07/21 19:13	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			07/07/21 19:13	1
Trichloroethene	**0.11**	**J**	0.50	0.060	ug/L			07/07/21 19:13	1
Vinyl chloride	ND		0.50	0.10	ug/L			07/07/21 19:13	1
Xylenes, Total	ND		1.0	0.15	ug/L			07/07/21 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*07/07/21 19:13*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*07/07/21 19:13*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*07/07/21 19:13*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*07/07/21 19:13*	*1*

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

Date Collected: 06/24/21 12:00
Date Received: 06/25/21 16:02

Lab Sample ID: 410-45147-13

Matrix: Water

Method: 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			07/07/21 19:34	1
1,1,1-Trichloroethane	**0.13**	**J**	0.50	0.060	ug/L			07/07/21 19:34	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/07/21 19:34	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			07/07/21 19:34	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			07/07/21 19:34	1
1,1-Dichloroethene	**0.10**	**J**	0.50	0.060	ug/L			07/07/21 19:34	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			07/07/21 19:34	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			07/07/21 19:34	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			07/07/21 19:34	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			07/07/21 19:34	1
2-Hexanone	ND		5.0	0.60	ug/L			07/07/21 19:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			07/07/21 19:34	1
Acetone	ND		5.0	0.90	ug/L			07/07/21 19:34	1
Benzene	ND		0.50	0.050	ug/L			07/07/21 19:34	1
Bromochloromethane	ND		0.50	0.050	ug/L			07/07/21 19:34	1
Bromodichloromethane	ND		0.50	0.050	ug/L			07/07/21 19:34	1
Bromoform	ND		1.0	0.30	ug/L			07/07/21 19:34	1
Bromomethane	ND		0.50	0.070	ug/L			07/07/21 19:34	1
Carbon disulfide	ND		1.0	0.060	ug/L			07/07/21 19:34	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			07/07/21 19:34	1
Chlorobenzene	ND		0.50	0.060	ug/L			07/07/21 19:34	1
Chloroethane	ND		0.50	0.070	ug/L			07/07/21 19:34	1
Chloroform	**0.29**	**J**	0.50	0.090	ug/L			07/07/21 19:34	1
Chloromethane	ND		0.50	0.060	ug/L			07/07/21 19:34	1
cis-1,2-Dichloroethene	**0.83**		0.50	0.050	ug/L			07/07/21 19:34	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			07/07/21 19:34	1
Dibromochloromethane	ND		0.50	0.070	ug/L			07/07/21 19:34	1
Ethylbenzene	ND		0.50	0.060	ug/L			07/07/21 19:34	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			07/07/21 19:34	1
Methylene Chloride	ND		0.50	0.070	ug/L			07/07/21 19:34	1
Styrene	ND		0.50	0.050	ug/L			07/07/21 19:34	1
Tetrachloroethene	**3.5**		0.50	0.060	ug/L			07/07/21 19:34	1
Toluene	ND		0.50	0.070	ug/L			07/07/21 19:34	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			07/07/21 19:34	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			07/07/21 19:34	1
Trichloroethene	**1.3**		0.50	0.060	ug/L			07/07/21 19:34	1
Vinyl chloride	ND		0.50	0.10	ug/L			07/07/21 19:34	1
Xylenes, Total	ND		1.0	0.15	ug/L			07/07/21 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*07/07/21 19:34*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*07/07/21 19:34*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*07/07/21 19:34*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*07/07/21 19:34*	*1*

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

Date Collected: 06/24/21 00:00
Date Received: 06/25/21 16:02

Lab Sample ID: 410-45147-14

Matrix: Water

Method: 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			07/07/21 11:38	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			07/07/21 11:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/07/21 11:38	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			07/07/21 11:38	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			07/07/21 11:38	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			07/07/21 11:38	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			07/07/21 11:38	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			07/07/21 11:38	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			07/07/21 11:38	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			07/07/21 11:38	1
2-Hexanone	ND		5.0	0.60	ug/L			07/07/21 11:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			07/07/21 11:38	1
Acetone	ND		5.0	0.90	ug/L			07/07/21 11:38	1
Benzene	ND		0.50	0.050	ug/L			07/07/21 11:38	1
Bromochloromethane	ND		0.50	0.050	ug/L			07/07/21 11:38	1
Bromodichloromethane	ND		0.50	0.050	ug/L			07/07/21 11:38	1
Bromoform	ND		1.0	0.30	ug/L			07/07/21 11:38	1
Bromomethane	ND		0.50	0.070	ug/L			07/07/21 11:38	1
Carbon disulfide	ND		1.0	0.060	ug/L			07/07/21 11:38	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			07/07/21 11:38	1
Chlorobenzene	ND		0.50	0.060	ug/L			07/07/21 11:38	1
Chloroethane	ND		0.50	0.070	ug/L			07/07/21 11:38	1
Chloroform	ND		0.50	0.090	ug/L			07/07/21 11:38	1
Chloromethane	ND		0.50	0.060	ug/L			07/07/21 11:38	1
cis-1,2-Dichloroethene	ND		0.50	0.050	ug/L			07/07/21 11:38	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			07/07/21 11:38	1
Dibromochloromethane	ND		0.50	0.070	ug/L			07/07/21 11:38	1
Ethylbenzene	ND		0.50	0.060	ug/L			07/07/21 11:38	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			07/07/21 11:38	1
Methylene Chloride	ND		0.50	0.070	ug/L			07/07/21 11:38	1
Styrene	ND		0.50	0.050	ug/L			07/07/21 11:38	1
Tetrachloroethene	ND		0.50	0.060	ug/L			07/07/21 11:38	1
Toluene	ND		0.50	0.070	ug/L			07/07/21 11:38	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			07/07/21 11:38	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			07/07/21 11:38	1
Trichloroethene	ND		0.50	0.060	ug/L			07/07/21 11:38	1
Vinyl chloride	ND		0.50	0.10	ug/L			07/07/21 11:38	1
Xylenes, Total	ND		1.0	0.15	ug/L			07/07/21 11:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*07/07/21 11:38*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*07/07/21 11:38*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*07/07/21 11:38*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*07/07/21 11:38*	*1*

Default Detection Limits

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

Job ID: 410-45147-1

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	0.060	ug/L
1,1,2,2-Tetrachloroethane	0.50	0.070	ug/L
1,1,2-Trichloroethane	0.50	0.060	ug/L
1,1-Dichloroethane	0.50	0.070	ug/L
1,1-Dichloroethene	0.50	0.060	ug/L
1,2-Dibromoethane (EDB)	0.50	0.060	ug/L
1,2-Dichloroethane	0.50	0.050	ug/L
1,2-Dichloropropane	0.50	0.060	ug/L
2-Butanone (MEK)	5.0	0.60	ug/L
2-Hexanone	5.0	0.60	ug/L
4-Methyl-2-pentanone (MIBK)	5.0	0.70	ug/L
Acetone	5.0	0.90	ug/L
Benzene	0.50	0.050	ug/L
Bromochloromethane	0.50	0.050	ug/L
Bromodichloromethane	0.50	0.050	ug/L
Bromoform	1.0	0.30	ug/L
Bromomethane	0.50	0.070	ug/L
Carbon disulfide	1.0	0.060	ug/L
Carbon tetrachloride	0.50	0.070	ug/L
Chlorobenzene	0.50	0.060	ug/L
Chloroethane	0.50	0.070	ug/L
Chloroform	0.50	0.090	ug/L
Chloromethane	0.50	0.060	ug/L
cis-1,2-Dichloroethene	0.50	0.050	ug/L
cis-1,3-Dichloropropene	0.50	0.050	ug/L
Dibromochloromethane	0.50	0.070	ug/L
Ethylbenzene	0.50	0.060	ug/L
Methyl tert-butyl ether	0.50	0.050	ug/L
Methylene Chloride	0.50	0.070	ug/L
Styrene	0.50	0.050	ug/L
Tetrachloroethene	0.50	0.060	ug/L
Toluene	0.50	0.070	ug/L
trans-1,2-Dichloroethene	0.50	0.060	ug/L
trans-1,3-Dichloropropene	0.50	0.060	ug/L
Trichloroethene	0.50	0.060	ug/L
Vinyl chloride	0.50	0.10	ug/L
Xylenes, Total	1.0	0.15	ug/L

Surrogate Summary

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

Job ID: 410-45147-1

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)
410-45147-1	HD-COD-SW-6-0/1-0	103	97	98	101
410-45147-2	HD-COD-SW-7-0/1-0	104	97	99	101
410-45147-3	HD-COD-SW-8-0/1-0	102	97	99	100
410-45147-4	HD-COD-SW-9-0/1-0	103	96	98	99
410-45147-5	HD-COD-SW-13-0/1-0	102	97	99	100
410-45147-6	HD-COD-SW-15-0/1-0	100	98	99	100
410-45147-6 MS	HD-COD-SW-15-0/1-0	102	99	98	101
410-45147-6 MSD	HD-COD-SW-15-0/1-0	102	101	98	101
410-45147-7	HD-COD-SW-16-0/1-0	104	97	98	101
410-45147-8	HD-COD-SW-17-0/1-0	104	96	100	100
410-45147-9	HD-COD-SW-26-0/1-0	102	96	99	98
410-45147-10	HD-COD-SW-27-0/1-0	104	96	100	100
410-45147-11	HD-COD-SW-28-0/1-0	103	98	104	93
410-45147-12	HD-COD-SW-29-0/1-0	103	97	105	94
410-45147-13	HD-QC1-0/1-1	102	97	105	94
410-45147-14	HD-QC1-0/1-2	102	99	105	95
LCS 410-145209/4	Lab Control Sample	103	99	98	101
LCS 410-145644/4	Lab Control Sample	100	99	106	96
LCSD 410-145209/5	Lab Control Sample Dup	102	100	97	101
LCSD 410-145644/5	Lab Control Sample Dup	102	99	104	96
MB 410-145209/7	Method Blank	102	99	97	101
MB 410-145644/7	Method Blank	100	98	104	95

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 410-145209/7
Matrix: Water
Analysis Batch: 145209

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			07/06/21 11:43	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			07/06/21 11:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/06/21 11:43	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			07/06/21 11:43	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			07/06/21 11:43	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			07/06/21 11:43	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			07/06/21 11:43	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			07/06/21 11:43	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			07/06/21 11:43	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			07/06/21 11:43	1
2-Hexanone	ND		5.0	0.60	ug/L			07/06/21 11:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			07/06/21 11:43	1
Acetone	ND		5.0	0.90	ug/L			07/06/21 11:43	1
Benzene	ND		0.50	0.050	ug/L			07/06/21 11:43	1
Bromochloromethane	ND		0.50	0.050	ug/L			07/06/21 11:43	1
Bromodichloromethane	ND		0.50	0.050	ug/L			07/06/21 11:43	1
Bromoform	ND		1.0	0.30	ug/L			07/06/21 11:43	1
Bromomethane	ND		0.50	0.070	ug/L			07/06/21 11:43	1
Carbon disulfide	ND		1.0	0.060	ug/L			07/06/21 11:43	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			07/06/21 11:43	1
Chlorobenzene	ND		0.50	0.060	ug/L			07/06/21 11:43	1
Chloroethane	ND		0.50	0.070	ug/L			07/06/21 11:43	1
Chloroform	ND		0.50	0.090	ug/L			07/06/21 11:43	1
Chloromethane	ND		0.50	0.060	ug/L			07/06/21 11:43	1
cis-1,2-Dichloroethene	ND		0.50	0.050	ug/L			07/06/21 11:43	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			07/06/21 11:43	1
Dibromochloromethane	ND		0.50	0.070	ug/L			07/06/21 11:43	1
Ethylbenzene	ND		0.50	0.060	ug/L			07/06/21 11:43	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			07/06/21 11:43	1
Methylene Chloride	ND		0.50	0.070	ug/L			07/06/21 11:43	1
Styrene	ND		0.50	0.050	ug/L			07/06/21 11:43	1
Tetrachloroethene	ND		0.50	0.060	ug/L			07/06/21 11:43	1
Toluene	ND		0.50	0.070	ug/L			07/06/21 11:43	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			07/06/21 11:43	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			07/06/21 11:43	1
Trichloroethene	ND		0.50	0.060	ug/L			07/06/21 11:43	1
Vinyl chloride	ND		0.50	0.10	ug/L			07/06/21 11:43	1
Xylenes, Total	ND		1.0	0.15	ug/L			07/06/21 11:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*07/06/21 11:43*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*07/06/21 11:43*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*07/06/21 11:43*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*07/06/21 11:43*	*1*

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

Lab Sample ID: LCS 410-145209/4
Matrix: Water
Analysis Batch: 145209

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.00	4.95		ug/L		99	71 - 134
1,1,1-Trichloroethane	5.00	5.04		ug/L		101	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.21		ug/L		104	75 - 123
1,1,2-Trichloroethane	5.00	5.24		ug/L		105	80 - 120
1,1-Dichloroethane	5.00	5.44		ug/L		109	74 - 120
1,1-Dichloroethene	5.00	5.45		ug/L		109	80 - 131
1,2-Dibromoethane (EDB)	5.00	5.04		ug/L		101	80 - 120
1,2-Dichloroethane	5.00	5.09		ug/L		102	69 - 122
1,2-Dichloropropane	5.00	5.74		ug/L		115	80 - 120
2-Butanone (MEK)	62.5	84.7		ug/L		136	59 - 141
2-Hexanone	62.5	82.8		ug/L		132	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	82.3		ug/L		132	55 - 140
Acetone	62.5	60.7		ug/L		97	60 - 146
Benzene	5.00	5.41		ug/L		108	80 - 120
Bromochloromethane	5.00	5.01		ug/L		100	80 - 120
Bromodichloromethane	5.00	5.40		ug/L		108	73 - 124
Bromoform	5.00	5.49		ug/L		110	49 - 144
Bromomethane	5.00	5.42		ug/L		108	60 - 136
Carbon disulfide	5.00	5.79		ug/L		116	67 - 130
Carbon tetrachloride	5.00	4.98		ug/L		100	64 - 141
Chlorobenzene	5.00	5.02		ug/L		100	80 - 120
Chloroethane	5.00	5.64		ug/L		113	63 - 120
Chloroform	5.00	5.20		ug/L		104	80 - 120
Chloromethane	5.00	6.76	*+	ug/L		135	56 - 124
cis-1,2-Dichloroethene	5.00	5.22		ug/L		104	80 - 122
cis-1,3-Dichloropropene	5.00	5.39		ug/L		108	67 - 121
Dibromochloromethane	5.00	5.35		ug/L		107	64 - 138
Ethylbenzene	5.00	5.22		ug/L		104	80 - 120
Methyl tert-butyl ether	5.00	5.10		ug/L		102	69 - 120
Methylene Chloride	5.00	5.53		ug/L		111	80 - 120
Styrene	5.00	5.21		ug/L		104	80 - 120
Tetrachloroethene	5.00	4.90		ug/L		98	80 - 120
Toluene	5.00	5.18		ug/L		104	80 - 120
trans-1,2-Dichloroethene	5.00	5.26		ug/L		105	80 - 122
trans-1,3-Dichloropropene	5.00	5.49		ug/L		110	61 - 129
Trichloroethene	5.00	5.15		ug/L		103	80 - 120
Vinyl chloride	5.00	6.71	*+	ug/L		134	60 - 125
Xylenes, Total	15.0	15.5		ug/L		103	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

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

Lab Sample ID: LCSD 410-145209/5
Matrix: Water
Analysis Batch: 145209

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	5.00		ug/L		100	71 - 134	1	30
1,1,1-Trichloroethane			5.00	5.01		ug/L		100	78 - 126	0	30
1,1,2,2-Tetrachloroethane			5.00	5.20		ug/L		104	75 - 123	0	30
1,1,2-Trichloroethane			5.00	5.23		ug/L		105	80 - 120	0	30
1,1-Dichloroethane			5.00	5.33		ug/L		107	74 - 120	2	30
1,1-Dichloroethene			5.00	5.44		ug/L		109	80 - 131	0	30
1,2-Dibromoethane (EDB)			5.00	5.04		ug/L		101	80 - 120	0	30
1,2-Dichloroethane			5.00	5.02		ug/L		100	69 - 122	1	30
1,2-Dichloropropane			5.00	5.63		ug/L		113	80 - 120	2	30
2-Butanone (MEK)			62.5	87.1		ug/L		139	59 - 141	3	30
2-Hexanone			62.5	86.4		ug/L		138	52 - 140	4	30
4-Methyl-2-pentanone (MIBK)			62.5	86.7		ug/L		139	55 - 140	5	30
Acetone			62.5	60.5		ug/L		97	60 - 146	0	30
Benzene			5.00	5.30		ug/L		106	80 - 120	2	30
Bromochloromethane			5.00	5.01		ug/L		100	80 - 120	0	30
Bromodichloromethane			5.00	5.36		ug/L		107	73 - 124	1	30
Bromoform			5.00	5.41		ug/L		108	49 - 144	2	30
Bromomethane			5.00	5.25		ug/L		105	60 - 136	3	30
Carbon disulfide			5.00	5.78		ug/L		116	67 - 130	0	30
Carbon tetrachloride			5.00	5.03		ug/L		101	64 - 141	1	30
Chlorobenzene			5.00	4.97		ug/L		99	80 - 120	1	30
Chloroethane			5.00	5.46		ug/L		109	63 - 120	3	30
Chloroform			5.00	5.18		ug/L		104	80 - 120	0	30
Chloromethane			5.00	6.66	*+	ug/L		133	56 - 124	2	30
cis-1,2-Dichloroethene			5.00	5.22		ug/L		104	80 - 122	0	30
cis-1,3-Dichloropropene			5.00	5.39		ug/L		108	67 - 121	0	30
Dibromochloromethane			5.00	5.37		ug/L		107	64 - 138	0	30
Ethylbenzene			5.00	5.20		ug/L		104	80 - 120	0	30
Methyl tert-butyl ether			5.00	5.04		ug/L		101	69 - 120	1	30
Methylene Chloride			5.00	5.42		ug/L		108	80 - 120	2	30
Styrene			5.00	5.15		ug/L		103	80 - 120	1	30
Tetrachloroethene			5.00	4.88		ug/L		98	80 - 120	1	30
Toluene			5.00	5.12		ug/L		102	80 - 120	1	30
trans-1,2-Dichloroethene			5.00	5.18		ug/L		104	80 - 122	2	30
trans-1,3-Dichloropropene			5.00	5.51		ug/L		110	61 - 129	0	30
Trichloroethene			5.00	5.06		ug/L		101	80 - 120	2	30
Vinyl chloride			5.00	6.50	*+	ug/L		130	60 - 125	3	30
Xylenes, Total			15.0	15.4		ug/L		103	80 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

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

Lab Sample ID: 410-45147-6 MS
Matrix: Water
Analysis Batch: 145209

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		5.00	5.19		ug/L		104	71 - 134
1,1,1-Trichloroethane	0.11	J	5.00	5.61		ug/L		110	78 - 126
1,1,2,2-Tetrachloroethane	ND		5.00	5.32		ug/L		106	75 - 123
1,1,2-Trichloroethane	ND		5.00	5.33		ug/L		106	80 - 120
1,1-Dichloroethane	ND		5.00	5.85		ug/L		117	74 - 120
1,1-Dichloroethene	0.090	J	5.00	6.16		ug/L		121	80 - 131
1,2-Dibromoethane (EDB)	ND		5.00	5.17		ug/L		103	80 - 120
1,2-Dichloroethane	ND		5.00	5.19		ug/L		104	69 - 122
1,2-Dichloropropane	ND	FH	5.00	5.94		ug/L		119	80 - 120
2-Butanone (MEK)	ND	^c FH	62.6	90.9	FH	ug/L		145	59 - 141
2-Hexanone	ND	^c FH	62.6	88.7	FH	ug/L		142	52 - 140
4-Methyl-2-pentanone (MIBK)	ND	^c FH	62.6	88.9	FH	ug/L		142	55 - 140
Acetone	ND		62.6	61.5		ug/L		98	60 - 146
Benzene	ND		5.00	5.82		ug/L		116	80 - 120
Bromochloromethane	ND		5.00	5.13		ug/L		103	80 - 120
Bromodichloromethane	ND		5.00	5.60		ug/L		112	73 - 124
Bromoform	ND		5.00	5.49		ug/L		110	49 - 144
Bromomethane	ND		5.00	5.86		ug/L		117	60 - 136
Carbon disulfide	ND	FH	5.00	6.46		ug/L		129	67 - 130
Carbon tetrachloride	ND		5.00	5.61		ug/L		112	64 - 141
Chlorobenzene	ND		5.00	5.35		ug/L		107	80 - 120
Chloroethane	ND	FH	5.00	6.16	FH	ug/L		123	63 - 120
Chloroform	0.30	J	5.00	5.82		ug/L		110	80 - 120
Chloromethane	ND	*+ ^c FH	5.00	7.44	FH	ug/L		149	80 - 120
cis-1,2-Dichloroethene	0.66		5.00	6.25		ug/L		112	80 - 122
cis-1,3-Dichloropropene	ND		5.00	5.60		ug/L		112	67 - 121
Dibromochloromethane	ND		5.00	5.50		ug/L		110	64 - 138
Ethylbenzene	ND		5.00	5.60		ug/L		112	80 - 120
Methyl tert-butyl ether	0.050	J	5.00	5.25		ug/L		105	69 - 120
Methylene Chloride	ND		5.00	5.86		ug/L		117	80 - 120
Styrene	ND		5.00	5.42		ug/L		108	80 - 120
Tetrachloroethene	2.2		5.00	7.48		ug/L		106	80 - 120
Toluene	ND		5.00	5.41		ug/L		108	80 - 120
trans-1,2-Dichloroethene	ND		5.00	5.75		ug/L		115	80 - 122
trans-1,3-Dichloropropene	ND		5.00	5.60		ug/L		112	61 - 129
Trichloroethene	0.80		5.00	6.37		ug/L		111	80 - 120
Vinyl chloride	ND	*+ ^c FH	5.00	7.41	FH	ug/L		148	60 - 125
Xylenes, Total	ND		15.0	16.6		ug/L		110	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

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

Lab Sample ID: 410-45147-6 MSD
Matrix: Water
Analysis Batch: 145209

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		5.00	5.28		ug/L		105	71 - 134	2	30
1,1,1-Trichloroethane	0.11	J	5.00	5.72		ug/L		112	78 - 126	2	30
1,1,2,2-Tetrachloroethane	ND		5.00	5.33		ug/L		107	75 - 123	0	30
1,1,2-Trichloroethane	ND		5.00	5.54		ug/L		111	80 - 120	4	30
1,1-Dichloroethane	ND		5.00	6.01		ug/L		120	74 - 120	3	30
1,1-Dichloroethene	0.090	J	5.00	6.37		ug/L		125	80 - 131	3	30
1,2-Dibromoethane (EDB)	ND		5.00	5.39		ug/L		108	80 - 120	4	30
1,2-Dichloroethane	ND		5.00	5.13		ug/L		103	69 - 122	1	30
1,2-Dichloropropane	ND	FH	5.00	6.09	FH	ug/L		122	80 - 120	2	30
2-Butanone (MEK)	ND	^c FH	62.6	81.3		ug/L		130	59 - 141	11	30
2-Hexanone	ND	^c FH	62.6	78.5		ug/L		126	52 - 140	12	30
4-Methyl-2-pentanone (MIBK)	ND	^c FH	62.6	78.7		ug/L		126	55 - 140	12	30
Acetone	ND		62.6	78.0		ug/L		125	60 - 146	24	30
Benzene	ND		5.00	5.90		ug/L		118	80 - 120	1	30
Bromochloromethane	ND		5.00	5.29		ug/L		106	80 - 120	3	30
Bromodichloromethane	ND		5.00	5.72		ug/L		114	73 - 124	2	30
Bromoform	ND		5.00	5.54		ug/L		111	49 - 144	1	30
Bromomethane	ND		5.00	5.82		ug/L		116	60 - 136	1	30
Carbon disulfide	ND	FH	5.00	6.61	FH	ug/L		132	67 - 130	2	30
Carbon tetrachloride	ND		5.00	5.68		ug/L		113	64 - 141	1	30
Chlorobenzene	ND		5.00	5.49		ug/L		110	80 - 120	3	30
Chloroethane	ND	FH	5.00	6.09	FH	ug/L		122	63 - 120	1	30
Chloroform	0.30	J	5.00	5.89		ug/L		112	80 - 120	1	30
Chloromethane	ND	*+ ^c FH	5.00	7.31	FH	ug/L		146	80 - 120	2	30
cis-1,2-Dichloroethene	0.66		5.00	6.37		ug/L		114	80 - 122	2	30
cis-1,3-Dichloropropene	ND		5.00	5.73		ug/L		114	67 - 121	2	30
Dibromochloromethane	ND		5.00	5.70		ug/L		114	64 - 138	4	30
Ethylbenzene	ND		5.00	5.73		ug/L		114	80 - 120	2	30
Methyl tert-butyl ether	0.050	J	5.00	5.37		ug/L		107	69 - 120	2	30
Methylene Chloride	ND		5.00	5.92		ug/L		118	80 - 120	1	30
Styrene	ND		5.00	5.52		ug/L		110	80 - 120	2	30
Tetrachloroethene	2.2		5.00	7.67		ug/L		110	80 - 120	2	30
Toluene	ND		5.00	5.62		ug/L		112	80 - 120	4	30
trans-1,2-Dichloroethene	ND		5.00	5.79		ug/L		116	80 - 122	1	30
trans-1,3-Dichloropropene	ND		5.00	5.76		ug/L		115	61 - 129	3	30
Trichloroethene	0.80		5.00	6.44		ug/L		113	80 - 120	1	30
Vinyl chloride	ND	*+ ^c FH	5.00	7.43	FH	ug/L		148	60 - 125	0	30
Xylenes, Total	ND		15.0	16.9		ug/L		112	80 - 120	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

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

Lab Sample ID: MB 410-145644/7
Matrix: Water
Analysis Batch: 145644

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			07/07/21 10:36	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			07/07/21 10:36	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/07/21 10:36	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			07/07/21 10:36	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			07/07/21 10:36	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			07/07/21 10:36	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			07/07/21 10:36	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			07/07/21 10:36	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			07/07/21 10:36	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			07/07/21 10:36	1
2-Hexanone	ND		5.0	0.60	ug/L			07/07/21 10:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			07/07/21 10:36	1
Acetone	ND		5.0	0.90	ug/L			07/07/21 10:36	1
Benzene	ND		0.50	0.050	ug/L			07/07/21 10:36	1
Bromochloromethane	ND		0.50	0.050	ug/L			07/07/21 10:36	1
Bromodichloromethane	ND		0.50	0.050	ug/L			07/07/21 10:36	1
Bromoform	ND		1.0	0.30	ug/L			07/07/21 10:36	1
Bromomethane	ND		0.50	0.070	ug/L			07/07/21 10:36	1
Carbon disulfide	ND		1.0	0.060	ug/L			07/07/21 10:36	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			07/07/21 10:36	1
Chlorobenzene	ND		0.50	0.060	ug/L			07/07/21 10:36	1
Chloroethane	ND		0.50	0.070	ug/L			07/07/21 10:36	1
Chloroform	ND		0.50	0.090	ug/L			07/07/21 10:36	1
Chloromethane	ND		0.50	0.060	ug/L			07/07/21 10:36	1
cis-1,2-Dichloroethene	ND		0.50	0.050	ug/L			07/07/21 10:36	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			07/07/21 10:36	1
Dibromochloromethane	ND		0.50	0.070	ug/L			07/07/21 10:36	1
Ethylbenzene	ND		0.50	0.060	ug/L			07/07/21 10:36	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			07/07/21 10:36	1
Methylene Chloride	ND		0.50	0.070	ug/L			07/07/21 10:36	1
Styrene	ND		0.50	0.050	ug/L			07/07/21 10:36	1
Tetrachloroethene	ND		0.50	0.060	ug/L			07/07/21 10:36	1
Toluene	ND		0.50	0.070	ug/L			07/07/21 10:36	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			07/07/21 10:36	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			07/07/21 10:36	1
Trichloroethene	ND		0.50	0.060	ug/L			07/07/21 10:36	1
Vinyl chloride	ND		0.50	0.10	ug/L			07/07/21 10:36	1
Xylenes, Total	ND		1.0	0.15	ug/L			07/07/21 10:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*07/07/21 10:36*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*07/07/21 10:36*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*07/07/21 10:36*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*07/07/21 10:36*	*1*

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

Lab Sample ID: LCS 410-145644/4
Matrix: Water
Analysis Batch: 145644

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	5.07		ug/L		101	71 - 134
1,1,1-Trichloroethane	5.00	5.34		ug/L		107	78 - 126
1,1,2,2-Tetrachloroethane	5.00	4.87		ug/L		97	75 - 123
1,1,2-Trichloroethane	5.00	5.17		ug/L		103	80 - 120
1,1-Dichloroethane	5.00	5.12		ug/L		102	74 - 120
1,1-Dichloroethene	5.00	5.34		ug/L		107	80 - 131
1,2-Dibromoethane (EDB)	5.00	5.07		ug/L		101	80 - 120
1,2-Dichloroethane	5.00	5.33		ug/L		107	69 - 122
1,2-Dichloropropane	5.00	5.25		ug/L		105	80 - 120
2-Butanone (MEK)	62.5	53.6		ug/L		86	59 - 141
2-Hexanone	62.5	56.0		ug/L		90	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	54.0		ug/L		86	55 - 140
Acetone	62.5	46.4		ug/L		74	60 - 146
Benzene	5.00	5.26		ug/L		105	80 - 120
Bromochloromethane	5.00	5.68		ug/L		114	80 - 120
Bromodichloromethane	5.00	5.51		ug/L		110	73 - 124
Bromoform	5.00	5.49		ug/L		110	49 - 144
Bromomethane	5.00	5.00		ug/L		100	60 - 136
Carbon disulfide	5.00	5.01		ug/L		100	67 - 130
Carbon tetrachloride	5.00	5.46		ug/L		109	64 - 141
Chlorobenzene	5.00	4.98		ug/L		100	80 - 120
Chloroethane	5.00	4.85		ug/L		97	63 - 120
Chloroform	5.00	5.35		ug/L		107	80 - 120
Chloromethane	5.00	4.90		ug/L		98	56 - 124
cis-1,2-Dichloroethene	5.00	5.35		ug/L		107	80 - 122
cis-1,3-Dichloropropene	5.00	5.28		ug/L		106	67 - 121
Dibromochloromethane	5.00	5.08		ug/L		102	64 - 138
Ethylbenzene	5.00	4.92		ug/L		98	80 - 120
Methyl tert-butyl ether	5.00	5.04		ug/L		101	69 - 120
Methylene Chloride	5.00	5.34		ug/L		107	80 - 120
Styrene	5.00	5.14		ug/L		103	80 - 120
Tetrachloroethene	5.00	4.91		ug/L		98	80 - 120
Toluene	5.00	4.82		ug/L		96	80 - 120
trans-1,2-Dichloroethene	5.00	5.27		ug/L		105	80 - 122
trans-1,3-Dichloropropene	5.00	5.18		ug/L		104	61 - 129
Trichloroethene	5.00	5.22		ug/L		104	80 - 120
Vinyl chloride	5.00	4.83		ug/L		97	60 - 125
Xylenes, Total	15.0	15.1		ug/L		101	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*

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

Lab Sample ID: LCSD 410-145644/5
Matrix: Water
Analysis Batch: 145644

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	5.07		ug/L		101	71 - 134	0	30
1,1,1-Trichloroethane			5.00	5.17		ug/L		103	78 - 126	3	30
1,1,2,2-Tetrachloroethane			5.00	4.82		ug/L		96	75 - 123	1	30
1,1,2-Trichloroethane			5.00	5.10		ug/L		102	80 - 120	1	30
1,1-Dichloroethane			5.00	5.14		ug/L		103	74 - 120	0	30
1,1-Dichloroethene			5.00	5.22		ug/L		104	80 - 131	2	30
1,2-Dibromoethane (EDB)			5.00	5.00		ug/L		100	80 - 120	1	30
1,2-Dichloroethane			5.00	5.36		ug/L		107	69 - 122	0	30
1,2-Dichloropropane			5.00	5.14		ug/L		103	80 - 120	2	30
2-Butanone (MEK)			62.5	60.0		ug/L		96	59 - 141	11	30
2-Hexanone			62.5	61.5		ug/L		98	52 - 140	9	30
4-Methyl-2-pentanone (MIBK)			62.5	58.5		ug/L		94	55 - 140	8	30
Acetone			62.5	50.2		ug/L		80	60 - 146	8	30
Benzene			5.00	5.19		ug/L		104	80 - 120	1	30
Bromochloromethane			5.00	5.67		ug/L		113	80 - 120	0	30
Bromodichloromethane			5.00	5.47		ug/L		109	73 - 124	1	30
Bromoform			5.00	5.35		ug/L		107	49 - 144	2	30
Bromomethane			5.00	4.84		ug/L		97	60 - 136	3	30
Carbon disulfide			5.00	4.96		ug/L		99	67 - 130	1	30
Carbon tetrachloride			5.00	5.32		ug/L		106	64 - 141	3	30
Chlorobenzene			5.00	4.95		ug/L		99	80 - 120	1	30
Chloroethane			5.00	4.78		ug/L		96	63 - 120	1	30
Chloroform			5.00	5.28		ug/L		106	80 - 120	1	30
Chloromethane			5.00	4.78		ug/L		96	56 - 124	3	30
cis-1,2-Dichloroethene			5.00	5.32		ug/L		106	80 - 122	1	30
cis-1,3-Dichloropropene			5.00	5.23		ug/L		105	67 - 121	1	30
Dibromochloromethane			5.00	5.08		ug/L		102	64 - 138	0	30
Ethylbenzene			5.00	4.94		ug/L		99	80 - 120	0	30
Methyl tert-butyl ether			5.00	5.06		ug/L		101	69 - 120	0	30
Methylene Chloride			5.00	5.37		ug/L		107	80 - 120	1	30
Styrene			5.00	5.09		ug/L		102	80 - 120	1	30
Tetrachloroethene			5.00	4.92		ug/L		98	80 - 120	0	30
Toluene			5.00	4.86		ug/L		97	80 - 120	1	30
trans-1,2-Dichloroethene			5.00	5.11		ug/L		102	80 - 122	3	30
trans-1,3-Dichloropropene			5.00	5.03		ug/L		101	61 - 129	3	30
Trichloroethene			5.00	5.29		ug/L		106	80 - 120	1	30
Vinyl chloride			5.00	4.73		ug/L		95	60 - 125	2	30
Xylenes, Total			15.0	15.1		ug/L		100	80 - 120	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*

QC Association Summary

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

Job ID: 410-45147-1

GC/MS VOA

Analysis Batch: 145209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45147-1	HD-COD-SW-6-0/1-0	Total/NA	Water	8260D	
410-45147-2	HD-COD-SW-7-0/1-0	Total/NA	Water	8260D	
410-45147-3	HD-COD-SW-8-0/1-0	Total/NA	Water	8260D	
410-45147-4	HD-COD-SW-9-0/1-0	Total/NA	Water	8260D	
410-45147-5	HD-COD-SW-13-0/1-0	Total/NA	Water	8260D	
410-45147-6	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	
410-45147-7	HD-COD-SW-16-0/1-0	Total/NA	Water	8260D	
410-45147-8	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-45147-9	HD-COD-SW-26-0/1-0	Total/NA	Water	8260D	
410-45147-10	HD-COD-SW-27-0/1-0	Total/NA	Water	8260D	
MB 410-145209/7	Method Blank	Total/NA	Water	8260D	
LCS 410-145209/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-145209/5	Lab Control Sample Dup	Total/NA	Water	8260D	
410-45147-6 MS	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	
410-45147-6 MSD	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	

Analysis Batch: 145644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45147-11	HD-COD-SW-28-0/1-0	Total/NA	Water	8260D	
410-45147-12	HD-COD-SW-29-0/1-0	Total/NA	Water	8260D	
410-45147-13	HD-QC1-0/1-1	Total/NA	Water	8260D	
410-45147-14	HD-QC1-0/1-2	Total/NA	Water	8260D	
MB 410-145644/7	Method Blank	Total/NA	Water	8260D	
LCS 410-145644/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-145644/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Client Sample ID: HD-COD-SW-6-0/1-0
Lab Sample ID: 410-45147-1
Date Collected: 06/24/21 10:55
Matrix: Water
Date Received: 06/25/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	145209	07/06/21 18:02	LCW8	ELLE

Client Sample ID: HD-COD-SW-7-0/1-0
Lab Sample ID: 410-45147-2
Date Collected: 06/24/21 11:20
Matrix: Water
Date Received: 06/25/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	145209	07/06/21 18:25	LCW8	ELLE

Client Sample ID: HD-COD-SW-8-0/1-0
Lab Sample ID: 410-45147-3
Date Collected: 06/24/21 09:25
Matrix: Water
Date Received: 06/25/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	145209	07/06/21 18:47	LCW8	ELLE

Client Sample ID: HD-COD-SW-9-0/1-0
Lab Sample ID: 410-45147-4
Date Collected: 06/24/21 12:30
Matrix: Water
Date Received: 06/25/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	145209	07/06/21 19:09	LCW8	ELLE

Client Sample ID: HD-COD-SW-13-0/1-0
Lab Sample ID: 410-45147-5
Date Collected: 06/24/21 09:40
Matrix: Water
Date Received: 06/25/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	145209	07/06/21 19:32	LCW8	ELLE

Client Sample ID: HD-COD-SW-15-0/1-0
Lab Sample ID: 410-45147-6
Date Collected: 06/24/21 11:40
Matrix: Water
Date Received: 06/25/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	145209	07/06/21 13:35	LCW8	ELLE

Client Sample ID: HD-COD-SW-16-0/1-0
Lab Sample ID: 410-45147-7
Date Collected: 06/24/21 09:55
Matrix: Water
Date Received: 06/25/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	145209	07/06/21 19:54	LCW8	ELLE

Client Sample ID: HD-COD-SW-17-0/1-0
Lab Sample ID: 410-45147-8
Date Collected: 06/24/21 10:05
Matrix: Water
Date Received: 06/25/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	145209	07/06/21 20:16	LCW8	ELLE

Client Sample ID: HD-COD-SW-26-0/1-0
Lab Sample ID: 410-45147-9
Date Collected: 06/24/21 11:10
Matrix: Water
Date Received: 06/25/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	145209	07/06/21 20:38	LCW8	ELLE

Client Sample ID: HD-COD-SW-27-0/1-0
Lab Sample ID: 410-45147-10
Date Collected: 06/24/21 11:30
Matrix: Water
Date Received: 06/25/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	145209	07/06/21 21:00	LCW8	ELLE

Client Sample ID: HD-COD-SW-28-0/1-0
Lab Sample ID: 410-45147-11
Date Collected: 06/24/21 12:45
Matrix: Water
Date Received: 06/25/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	145644	07/07/21 18:53	J5QQ	ELLE

Client Sample ID: HD-COD-SW-29-0/1-0
Lab Sample ID: 410-45147-12
Date Collected: 06/24/21 09:10
Matrix: Water
Date Received: 06/25/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	145644	07/07/21 19:13	J5QQ	ELLE

Client Sample ID: HD-QC1-0/1-1
Lab Sample ID: 410-45147-13
Date Collected: 06/24/21 12:00
Matrix: Water
Date Received: 06/25/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	145644	07/07/21 19:34	J5QQ	ELLE

Client Sample ID: HD-QC1-0/1-2
Lab Sample ID: 410-45147-14
Date Collected: 06/24/21 00:00
Matrix: Water
Date Received: 06/25/21 16:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	145644	07/07/21 11:38	J5QQ	ELLE

Laboratory References:

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

Accreditation/Certification Summary

Client: Groundwater Sciences Corporation
Job ID: 410-45147-1
Project/Site: fYNOP Monthly Surface Water

Laboratory: Eurofins Lancaster Laboratories Env, LLC

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

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

Method Summary

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

Job ID: 410-45147-1

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 Env, 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: 410-45147-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-45147-1	HD-COD-SW-6-0/1-0	Water	06/24/21 10:55	06/25/21 16:02	
410-45147-2	HD-COD-SW-7-0/1-0	Water	06/24/21 11:20	06/25/21 16:02	
410-45147-3	HD-COD-SW-8-0/1-0	Water	06/24/21 09:25	06/25/21 16:02	
410-45147-4	HD-COD-SW-9-0/1-0	Water	06/24/21 12:30	06/25/21 16:02	
410-45147-5	HD-COD-SW-13-0/1-0	Water	06/24/21 09:40	06/25/21 16:02	
410-45147-6	HD-COD-SW-15-0/1-0	Water	06/24/21 11:40	06/25/21 16:02	
410-45147-7	HD-COD-SW-16-0/1-0	Water	06/24/21 09:55	06/25/21 16:02	
410-45147-8	HD-COD-SW-17-0/1-0	Water	06/24/21 10:05	06/25/21 16:02	
410-45147-9	HD-COD-SW-26-0/1-0	Water	06/24/21 11:10	06/25/21 16:02	
410-45147-10	HD-COD-SW-27-0/1-0	Water	06/24/21 11:30	06/25/21 16:02	
410-45147-11	HD-COD-SW-28-0/1-0	Water	06/24/21 12:45	06/25/21 16:02	
410-45147-12	HD-COD-SW-29-0/1-0	Water	06/24/21 09:10	06/25/21 16:02	
410-45147-13	HD-QC1-0/1-1	Water	06/24/21 12:00	06/25/21 16:02	
410-45147-14	HD-QC1-0/1-2	Water	06/24/21 00:00	06/25/21 16:02	

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-45147-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 102081

Lab Sample ID: IC 410-102081/12 Client Sample ID:

Date Analyzed: 03/11/21 19:26 Lab File ID: CM11X12.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.82	Baseline	knouses	03/23/21 12:19
1,4-Dioxane	8.44	Incomplete Integration	knouses	03/23/21 12:07

Lab Sample ID: ICIS 410-102081/13 Client Sample ID:

Date Analyzed: 03/11/21 19:49 Lab File ID: CM11X13.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.42	Incomplete Integration	spositok	03/23/21 16:34
Methyl acetate	3.81	Incomplete Integration	spositok	03/23/21 16:37

Lab Sample ID: IC 410-102081/14 Client Sample ID:

Date Analyzed: 03/11/21 20:11 Lab File ID: CM11X14.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.42	Incomplete Integration	knouses	03/12/21 09:09
Methyl acetate	3.81	Baseline	knouses	03/12/21 09:10
t-Butyl alcohol	4.14	Incomplete Integration	knouses	03/12/21 09:10
Isobutyl alcohol	7.02	Incomplete Integration	knouses	03/12/21 09:11
1,2-Dichloroethane	7.18	Incomplete Integration	knouses	03/12/21 09:11
n-Heptane	7.53	Baseline	knouses	03/12/21 09:12
1,4-Dioxane	8.45	Incomplete Integration	knouses	03/23/21 12:01

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-45147-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 102081

Lab Sample ID: IC 410-102081/15 Client Sample ID:

Date Analyzed: 03/11/21 20:33 Lab File ID: CM11X15.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.07	Incomplete Integration	knouses	03/12/21 09:15
Trichlorofluoromethane	2.86	Incomplete Integration	knouses	03/12/21 09:15
Acetone	3.42	Incomplete Integration	knouses	03/12/21 09:16
Methyl acetate	3.82	Baseline	knouses	03/23/21 12:22
Isobutyl alcohol	7.03	Incomplete Integration	knouses	03/12/21 09:18
1,2-Dichloroethane	7.17	Incomplete Integration	knouses	03/12/21 09:18
n-Butanol	7.93	Incomplete Integration	knouses	03/12/21 09:19
1,4-Dioxane	8.48	Incomplete Integration	knouses	03/23/21 12:00

Lab Sample ID: IC 410-102081/16 Client Sample ID:

Date Analyzed: 03/11/21 20:55 Lab File ID: CM11X16.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.09	Incomplete Integration	knouses	03/12/21 09:21
1,3-Butadiene	2.19	Baseline	knouses	03/12/21 09:21
Acetone	3.43	Incomplete Integration	knouses	03/12/21 09:22
Methyl acetate	3.84	Baseline	knouses	03/23/21 12:23
1,2-Dichloroethane	7.18	Incomplete Integration	knouses	03/12/21 09:24
1,4-Dioxane	8.46	Incomplete Integration	knouses	03/12/21 09:25
2-Nitropropane	8.98	Incomplete Integration	knouses	03/12/21 09:26

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-45147-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 102081

Lab Sample ID: IC 410-102081/17 Client Sample ID:

Date Analyzed: 03/11/21 21:18 Lab File ID: CM11X17.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.18	Baseline	knouses	03/12/21 12:10
Vinyl chloride	2.18	Incomplete Integration	knouses	03/12/21 12:12
Bromomethane	2.50	Incomplete Integration	knouses	03/12/21 12:12
Acetone	3.42	Incomplete Integration	knouses	03/12/21 09:35
Methyl acetate	3.82	Baseline	knouses	03/23/21 12:25
2-Butanone (MEK)	5.89	Incomplete Integration	knouses	03/12/21 09:38
Methacrylonitrile	6.20	Missed Peak	knouses	03/12/21 09:39
1,4-Dioxane	8.44	Incomplete Integration	knouses	03/12/21 09:40
2-Hexanone	10.36	Incomplete Integration	knouses	03/12/21 09:46
1,2-Dibromoethane (EDB)	10.62	Incomplete Integration	knouses	03/12/21 09:46
1,2-Dibromo-3-Chloropropane	13.81	Incomplete Integration	knouses	03/12/21 09:46

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-45147-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 102081

Lab Sample ID: IC 410-102081/18 Client Sample ID:

Date Analyzed: 03/11/21 21:40 Lab File ID: CM11X18.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.18	Incomplete Integration	knouses	03/12/21 10:46
Acetone	3.42	Incomplete Integration	knouses	03/12/21 11:47
Allyl chloride	3.82	Incomplete Integration	knouses	03/12/21 11:52
Methyl acetate	3.82	Baseline	knouses	03/23/21 12:27
Methylene Chloride	4.01	Incomplete Integration	knouses	03/12/21 10:48
t-Butyl alcohol	4.14	Incomplete Integration	knouses	03/12/21 10:48
Ethyl t-butyl ether	5.67	Incomplete Integration	knouses	03/12/21 11:53
2-Butanone (MEK)	5.90	Incomplete Integration	knouses	03/12/21 11:53
2,2-Dichloropropane	5.93	Missed Peak	knouses	03/12/21 10:49
Propionitrile	6.01	Incomplete Integration	knouses	03/12/21 11:54
Methacrylonitrile	6.21	Incomplete Integration	knouses	03/12/21 10:50
Tetrahydrofuran	6.28	Missed Peak	knouses	03/12/21 10:50
Isobutyl alcohol	7.04	Incomplete Integration	knouses	03/12/21 10:51
1,2-Dichloroethane	7.18	Incomplete Integration	knouses	03/12/21 12:00
t-Amyl methyl ether	7.31	Incomplete Integration	knouses	03/12/21 12:01
n-Heptane	7.52	Incomplete Integration	knouses	03/12/21 12:02
n-Butanol	7.95	Incomplete Integration	knouses	03/12/21 12:02
1,4-Dioxane	8.45	Incomplete Integration	knouses	03/12/21 10:52
Methyl methacrylate	8.46	Incomplete Integration	knouses	03/12/21 12:03
2-Nitropropane	8.98	Incomplete Integration	knouses	03/12/21 10:52
cis-1,3-Dichloropropene	9.26	Incomplete Integration	knouses	03/12/21 12:03
trans-1,3-Dichloropropene	9.92	Incomplete Integration	knouses	03/12/21 10:52
Ethyl methacrylate	9.99	Incomplete Integration	knouses	03/12/21 10:53
1,1,2-Trichloroethane	10.13	Incomplete Integration	knouses	03/12/21 12:03
1,3-Dichloropropane	10.29	Incomplete Integration	knouses	03/12/21 12:04
2-Hexanone	10.37	Incomplete Integration	knouses	03/12/21 12:06
Styrene	11.65	Incomplete Integration	knouses	03/12/21 12:07
tert-Butylbenzene	12.65	Incomplete Integration	knouses	03/12/21 10:53
n-Butylbenzene	13.23	Incomplete Integration	knouses	03/12/21 10:54
1,3,5-Trichlorobenzene	13.94	Incomplete Integration	knouses	03/12/21 12:08

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-45147-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 102081

Lab Sample ID: IC 410-102081/18 Client Sample ID:

Date Analyzed: 03/11/21 21:40 Lab File ID: CM11X18.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,4-Trichlorobenzene	14.37	Incomplete Integration	knouses	03/12/21 12:08
Naphthalene	14.55	Incomplete Integration	knouses	03/12/21 10:54
1,2,3-Trichlorobenzene	14.69	Incomplete Integration	knouses	03/12/21 12:08

Lab Sample ID: ICV 410-102081/19 Client Sample ID:

Date Analyzed: 03/11/21 22:02 Lab File ID: CM11X19.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.43	Incomplete Integration	spositok	03/23/21 16:50
Methyl acetate	3.81	Baseline	knouses	03/23/21 12:28
1,4-Dioxane	8.44	Incomplete Integration	knouses	03/12/21 10:57

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-45147-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 145209

Lab Sample ID: CCVIS 410-145209/3 Client Sample ID:

Date Analyzed: 07/06/21 10:14 Lab File ID: CL06X02.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.87	Incomplete Integration	knouses	07/06/21 10:43
Methyl acetate	3.79	Incomplete Integration	knouses	07/06/21 11:20
t-Butyl alcohol	4.15	Incomplete Integration	knouses	07/06/21 10:43

Lab Sample ID: 410-45147-6 Client Sample ID: HD-COD-SW-15-0/1-0

Date Analyzed: 07/06/21 13:35 Lab File ID: CL06X11.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1-Trichloroethane	6.60	Peak assignment corrected	innoonk	07/07/21 12:46

Lab Sample ID: 410-45147-1 Client Sample ID: HD-COD-SW-6-0/1-0

Date Analyzed: 07/06/21 18:02 Lab File ID: CL06X23.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.07	Invalid Compound ID	beckerk	07/06/21 22:54

Lab Sample ID: 410-45147-4 Client Sample ID: HD-COD-SW-9-0/1-0

Date Analyzed: 07/06/21 19:09 Lab File ID: CL06X26.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.68	Incomplete Integration	beckerk	07/06/21 22:55
2-Butanone (MEK)	5.91	Peak assignment corrected	innoonk	07/07/21 12:49

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-45147-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 145209

Lab Sample ID: 410-45147-5 Client Sample ID: HD-COD-SW-13-0/1-0

Date Analyzed: 07/06/21 19:32 Lab File ID: CL06X27.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.97	Incomplete Integration	innoonk	07/07/21 12:49
Benzene		Invalid Compound ID	innoonk	07/07/21 12:50

Lab Sample ID: 410-45147-8 Client Sample ID: HD-COD-SW-17-0/1-0

Date Analyzed: 07/06/21 20:16 Lab File ID: CL06X29.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1-Trichloroethane	6.59	Peak assignment corrected	innoonk	07/07/21 13:09

Lab Sample ID: 410-45147-9 Client Sample ID: HD-COD-SW-26-0/1-0

Date Analyzed: 07/06/21 20:38 Lab File ID: CL06X30.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	beckerk	07/06/21 22:56

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-45147-1

SDG No.:

Instrument ID: 19094 Analysis Batch Number: 143886

Lab Sample ID: IC 410-143886/9 Client Sample ID:

Date Analyzed: 06/30/21 17:04 Lab File ID: HU30I06.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methoxymethane	2.07	Incomplete Integration	campbellme	07/01/21 00:11
2-Chloroethyl vinyl ether	9.29	Incomplete Integration	campbellme	07/01/21 00:08
cis-1,4-Dichloro-2-butene	12.13	Incomplete Integration	campbellme	07/01/21 00:08

Lab Sample ID: IC 410-143886/10 Client Sample ID:

Date Analyzed: 06/30/21 17:25 Lab File ID: HU30I07.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methoxymethane	2.08	Incomplete Integration	campbellme	07/01/21 00:11
Vinyl acetate	5.35	Incomplete Integration	campbellme	07/01/21 00:09
2-Chloroethyl vinyl ether	9.78	Incomplete Integration	campbellme	07/01/21 00:10

Lab Sample ID: IC 410-143886/14 Client Sample ID:

Date Analyzed: 06/30/21 18:47 Lab File ID: HU30I11.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.62	Incomplete Integration	campbellme	07/01/21 00:52
1,4-Dioxane	8.67	Incomplete Integration	campbellme	07/01/21 00:42

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-45147-1

SDG No.:

Instrument ID: 19094 Analysis Batch Number: 143886

Lab Sample ID: ICIS 410-143886/15 Client Sample ID:

Date Analyzed: 06/30/21 19:08 Lab File ID: HU30I12.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane	7.43	Incomplete Integration	campbellme	07/01/21 00:40
1,4-Dioxane	8.67	Incomplete Integration	campbellme	07/01/21 00:40

Lab Sample ID: IC 410-143886/16 Client Sample ID:

Date Analyzed: 06/30/21 19:29 Lab File ID: HU30I13.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.62	Incomplete Integration	campbellme	07/01/21 00:52
1,4-Dioxane	8.68	Incomplete Integration	campbellme	07/01/21 00:43

Lab Sample ID: IC 410-143886/17 Client Sample ID:

Date Analyzed: 06/30/21 19:49 Lab File ID: HU30I14.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	2.01	Incomplete Integration	campbellme	07/01/21 00:44
Acetone	3.61	Incomplete Integration	campbellme	07/01/21 00:51
Acrylonitrile	4.62	Incomplete Integration	campbellme	07/01/21 00:44
1,4-Dioxane	8.67	Incomplete Integration	campbellme	07/01/21 00:44

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-45147-1

SDG No.:

Instrument ID: 19094 Analysis Batch Number: 143886

Lab Sample ID: IC 410-143886/18 Client Sample ID:

Date Analyzed: 06/30/21 20:10 Lab File ID: HU30I15.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	2.31	Incomplete Integration	campbellme	07/01/21 00:45
Acrolein	3.45	Incomplete Integration	campbellme	07/01/21 00:45
Acetone	3.62	Incomplete Integration	campbellme	07/01/21 00:45
t-Butyl alcohol	4.37	Incomplete Integration	campbellme	07/01/21 00:46

Lab Sample ID: IC 410-143886/19 Client Sample ID:

Date Analyzed: 06/30/21 20:31 Lab File ID: HU30I16.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	2.32	Incomplete Integration	campbellme	07/01/21 00:47
Acetone	3.62	Incomplete Integration	campbellme	07/01/21 00:47
t-Butyl alcohol	4.39	Incomplete Integration	campbellme	07/01/21 00:47
Acrylonitrile	4.62	Incomplete Integration	campbellme	07/01/21 00:47
Propionitrile	6.23	Incomplete Integration	campbellme	07/01/21 00:47
Isobutyl alcohol	7.24	Incomplete Integration	campbellme	07/01/21 00:48
1,4-Dioxane	8.68	Incomplete Integration	campbellme	07/01/21 00:48

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-45147-1

SDG No.:

Instrument ID: 19094 Analysis Batch Number: 143886

Lab Sample ID: IC 410-143886/20 Client Sample ID:

Date Analyzed: 06/30/21 20:52 Lab File ID: HU30I17.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	2.01	Incomplete Integration	campbellme	07/01/21 00:48
Chloromethane	2.20	Incomplete Integration	campbellme	07/01/21 00:48
Vinyl chloride	2.32	Incomplete Integration	campbellme	07/01/21 00:48
Acrolein	3.46	Incomplete Integration	campbellme	07/01/21 00:49
Carbon disulfide	3.93	Incomplete Integration	campbellme	07/01/21 00:49
t-Butyl alcohol	4.39	Incomplete Integration	campbellme	07/01/21 00:49
Acrylonitrile	4.64	Incomplete Integration	campbellme	07/01/21 00:49
Propionitrile	6.24	Incomplete Integration	campbellme	07/01/21 00:49
1,4-Dioxane	8.67	Incomplete Integration	campbellme	07/01/21 00:49
2-Nitropropane	9.20	Incomplete Integration	campbellme	07/01/21 00:50

Lab Sample ID: ICV 410-143886/21 Client Sample ID:

Date Analyzed: 06/30/21 21:12 Lab File ID: HU30V11.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrolein	3.45	Incomplete Integration	campbellme	07/01/21 01:02
Acetone	3.62	Incomplete Integration	campbellme	07/01/21 01:03
1,4-Dioxane	8.67	Incomplete Integration	campbellme	07/01/21 01:03

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-45147-1

SDG No.:

Instrument ID: 19094 Analysis Batch Number: 145644

Lab Sample ID: CCVIS 410-145644/3 Client Sample ID:

Date Analyzed: 07/07/21 09:13 Lab File ID: HL07X02.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	4.04	Baseline	knouses	07/07/21 09:55
t-Butyl alcohol	4.37	Incomplete Integration	knouses	07/07/21 09:55
n-Butanol	8.11	Incomplete Integration	knouses	07/07/21 09:56
1,4-Dioxane	8.67	Incomplete Integration	knouses	07/07/21 09:56

Lab Sample ID: LCSD 410-145644/5 Client Sample ID:

Date Analyzed: 07/07/21 09:54 Lab File ID: HL07X04.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.93	Incomplete Integration	knouses	07/07/21 10:24

Lab Sample ID: 410-45147-11 Client Sample ID: HD-COD-SW-28-0/1-0

Date Analyzed: 07/07/21 18:53 Lab File ID: HL07X30.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.63	Split Peak	beckerk	07/07/21 20:08
2-Butanone (MEK)	6.15	Split Peak	beckerk	07/07/21 20:08
cis-1,2-Dichloroethene	6.17	Split Peak	beckerk	07/07/21 20:08

Lab Sample ID: 410-45147-12 Client Sample ID: HD-COD-SW-29-0/1-0

Date Analyzed: 07/07/21 19:13 Lab File ID: HL07X31.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.62	Split Peak	beckerk	07/07/21 20:08

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45147-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_DME_00028	07/01/21	Absolute Standards, Inc, Lot 081920			(Purchased Reagent)		Dimethyl ether	1000 ug/mL
MSV_HP25_ISSS_00023	05/31/21	02/08/21	Methanol, Lot DZ644	10 mL	MSV_8260_SS_00293	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_00179	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_00293	03/31/22	Restek, Lot A0146938			(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_00179	05/31/21	Restek, Lot A0138205			(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_HP25_ISSS_00029	12/03/21	06/03/21	Methanol, Lot DZ644	10 mL	MSV_Cus826_IS_00318	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_00318	05/31/23	Restek, Lot A0160586			(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_HP25_ISSS_00029	12/03/21	06/03/21	Methanol, Lot DZ644	10 mL	MSV_8260_SS_00462	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_00462	08/31/23	Restek, Lot A0163445			(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_00007	07/28/21	06/28/21	Methanol, Lot DZ644	25 mL	MSV_M_MIX1SEC_00009	1 mL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							Benzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45147-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Methylene Chloride	40 ug/mL
							Styrene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00009	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00010	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_00009	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_00009	04/30/24		Restek, Lot A0171837		(Purchased Reagent)		Carbon disulfide	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45147-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00010	01/31/24		Restek, Lot A0167987		(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_00008	08/05/21	07/06/21	Methanol, Lot DZ644	25 mL	MSV_M_MIX1SEC_00010	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_00010	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00011	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_00010	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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45147-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00010	04/30/24		Restek, Lot A0171837		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00011	01/31/24		Restek, Lot A0167987		(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_00004	07/14/21	06/14/21	Methanol, Lot DZ644	1 mL	MSV_CCV_VOC#1_00005	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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45147-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Carbon disulfide	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
					MSV_CCV_VOC#3_00005	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_00005	07/14/21	06/14/21	Methanol, Lot DZ644	5 mL	MSV_MegaMIX#1_00005	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_00005	1 mL	Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
..MSV_MegaMIX#1_00005	07/14/21		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

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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		
							Benzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Methylene Chloride	5000 ug/mL
							Styrene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00005	07/14/21		Restek, Lot A0172089		(Purchased Reagent)		Carbon disulfide	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
.MSV_CCV_VOC#3_00005	07/14/21	06/14/21	Methanol, Lot DZ644	5 mL	MSV_V_Ketones_00005	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_00005	01/31/24		Restek, Lot A0168313		(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_00006	07/24/21	06/28/21	Methanol, Lot DZ644	1 mL	MSV_CCV_VOC#1_00007	50 uL	Ethyl methacrylate	50.0022 ug/mL
							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

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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		
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,4-Dioxane	2500 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							2-Nitropropane	250 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Acrylonitrile	125 ug/mL
							Benzyl chloride	50 ug/mL
							Carbon disulfide	50 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexane	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropyl ether	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl acetate	50 ug/mL
							Methyl methacrylate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							n-Butanol	4375 ug/mL
							n-Heptane	50 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
							Tetrahydrofuran	250 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_CCV_VOC#3_00007	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
							Acrolein	2500.02 ug/mL
					MSV_V_VOA2_00093	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_00007	07/28/21	06/28/21	Methanol, Lot DZ644	5 mL	MSV_EM_Work_00001	1 mL	Ethyl methacrylate	1000.04 ug/mL
					MSV_MegaMIX#1_00007	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

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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		
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00007	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

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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		
							Cyclohexane	1000 ug/mL
							Hexane	1000 ug/mL
							Iodomethane	1000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl ether	1000 ug/mL
							Methacrylonitrile	2500 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							n-Butanol	12500 ug/mL
							n-Heptane	1000 ug/mL
							Propionitrile	5000 ug/mL
							Tert-amyl methyl ether	1000 ug/mL
							Tert-butyl ethyl ether	1000 ug/mL
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_EM_Work_00001	11/24/21	05/24/21	Methanol, Lot DZ644	50 mL	MSV_EthylM_St_00001	4.938 mL	Ethyl methacrylate	5000.22 ug/mL
...MSV_EthylM_St_00001	11/24/21	05/24/21	Methanol, Lot DZ644	10 mL	MSV_EthylMeth_00001	0.5063 g	Ethyl methacrylate	50630 ug/mL
....MSV_EthylMeth_00001	01/31/23	Chem Service, Lot 11325900			(Purchased Reagent)		Ethyl methacrylate	1 g/g
..MSV_MegaMIX#1_00007	04/30/24	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

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00007	05/31/24		Restek, Lot A0172089		(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
							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

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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		
							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_00007	07/24/21	06/28/21	Methanol, Lot DZ644	5 mL	MSV_V_Ketones_00007	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_VACR_00017	0.5 mL	Acrolein	12500.1 ug/mL
..MSV_V_Ketones_00007	01/31/24	Restek, Lot A0168313			(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_VACR_00017	07/24/21	05/25/21	Methanol, Lot DZ644	10 mL	MSV_VACR_STK_00019	9.254 mL	Acrolein	125001 ug/mL
...MSV_VACR_STK_00019	07/24/21	05/25/21	Methanol, Lot DZ644	10 mL	MSV_ACROLEIN_00012	1.4416 g	Acrolein	135078 ug/mL
....MSV_ACROLEIN_00012	09/30/21	Chem Service, Lot 10804400			(Purchased Reagent)		Acrolein	0.937 g/g
.MSV_V_VOA2_00093	07/28/21	06/28/21	Methanol, Lot DZ644	5 mL	MSV_V#2B_00223	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_00223	04/30/22	Restek, Lot A0159694			(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_#2_826_00007	07/07/21	06/28/21	Methanol, Lot DZ644	1 mL	MSV_V_EE_00005	50 uL	Ethyl ether	50.0035 ug/mL
					MSV_V_PentaCL_00002	10 uL	Pentachloroethane	50 ug/mL
.MSV_V_EE_00005	10/14/21	04/14/21	Methanol, Lot DZ644	100 mL	MSV_EE_MISCSK_00006	1.989 mL	Ethyl ether	1000.07 ug/mL
..MSV_EE_MISCSK_00006	10/14/21	04/14/21	Methanol, Lot DZ644	10 mL	MSV_EE_Neat_00005	0.5028 g	Ethyl ether	50280 ug/mL
...MSV_EE_Neat_00005	11/30/21	Chem Service, Lot 11028800			(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_PentaCL_00002	07/18/21	Restek, Lot A0171341			(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_LL_GAS826_00010	07/05/21	06/28/21	Methanol, Lot DZ644	1 mL	MSV_CCV_GASES_00026	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

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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		
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00026	07/05/21		Restek, Lot A0172364		(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_00011	07/13/21	07/06/21	Methanol, Lot DZ644	1 mL	MSV_CCV_GASES_00031	25 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00031	07/13/21		Restek, Lot A0172364		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LLcentISO_00001	11/25/21	05/25/21	Methanol, Lot DZ644	50 mL	MSV_Cus826_IS_00310	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5 (IS)	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							t-Butyl alcohol-d10 (IS)	250 ug/mL
.MSV_Cus826_IS_00310	05/31/23		Restek, Lot A0160586		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_LLcentISS_00001	11/25/21	05/25/21	Methanol, Lot DZ644	50 mL	MSV_8260_SS_00366	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_00310	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_00366	03/31/22		Restek, Lot A0146938		(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_00310	05/31/23		Restek, Lot A0160586		(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_Q_QVOA1_00071	03/31/21	03/08/21	Methanol, Lot DZ644	25 mL	MSV_Q#1B_00089	1 mL	1,1,1,2-Tetrachloroethane	40 mg/L
							1,1,1-Trichloroethane	40 mg/L
							1,1,2,2-Tetrachloroethane	40 mg/L

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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		
							1,1,2-Trichloroethane	40 mg/L
							1,1-Dichloroethane	40 mg/L
							1,1-Dichloroethene	40 mg/L
							1,2-Dibromoethane (EDB)	40 mg/L
							1,2-Dichloroethane	40 mg/L
							1,2-Dichloropropane	40 mg/L
							Benzene	40 mg/L
							Bromodichloromethane	40 mg/L
							Bromoform	40 mg/L
							Carbon tetrachloride	40 mg/L
							Chlorobenzene	40 mg/L
							Chloroform	40 mg/L
							cis-1,2-Dichloroethene	40 mg/L
							cis-1,3-Dichloropropene	40 mg/L
							Dibromochloromethane	40 mg/L
							Ethylbenzene	40 mg/L
							Methylene Chloride	40 mg/L
							Styrene	40 mg/L
							Tetrachloroethene	40 mg/L
							Toluene	40 mg/L
							trans-1,2-Dichloroethene	40 mg/L
							trans-1,3-Dichloropropene	40 mg/L
							Trichloroethene	40 mg/L
					MSV_Q#3B_00079	1 mL	2-Butanone (MEK)	300 mg/L
							2-Hexanone	200 mg/L
							4-Methyl-2-pentanone (MIBK)	200 mg/L
							Acetone	300 mg/L
					MSV_Q#4C_00086	1 mL	Carbon disulfide	40 mg/L
							Methyl tert-butyl ether	40 mg/L
.MSV_Q#1B_00089	04/30/22		Restek, Lot A0165522		(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
							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

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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		
							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_Q#3B_00079	09/30/21		Restek, Lot A0158722		(Purchased Reagent)		2-Butanone (MEK)	7500 ug/mL
							2-Hexanone	5000 ug/mL
							4-Methyl-2-pentanone (MIBK)	5000 ug/mL
							Acetone	7500 ug/mL
.MSV_Q#4C_00086	03/31/21		Restek, Lot A0158704		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
MSV_Q_QVOA6_00069	04/07/21	03/08/21	Methanol, Lot DZ644	25 mL	MSV_QCS#6Std_00085	1 mL	Bromochloromethane	40 ug/mL
.MSV_QCS#6Std_00085	09/30/21		Restek, Lot A0158906		(Purchased Reagent)		Bromochloromethane	1000 ug/mL
MSV_QC_Gas826_00010	07/05/21	06/28/21	Methanol, Lot DZ644	1 mL	MSV_QC_2K_GAS_00012	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00012	07/05/21		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_00011	07/13/21	07/06/21	Methanol, Lot DZ644	1 mL	MSV_QC_2K_GAS_00014	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00014	07/13/21		Restek, Lot A0172021		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_QGAS_826_00114	03/18/21	03/11/21	Methanol, Lot DZ644	1 mL	MSV_502QGas_00154	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_502QGas_00154	03/18/21		Restek, Lot A0155823		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_RV1_826_00041	03/31/21	03/08/21	Methanol, Lot DZ644	1 mL	MSV_V#1B_00146	10 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

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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		
							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-Trichlorobenzene	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
							1-Chlorohexane	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
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					MSV_V#2B_00197	10 uL	1,4-Dioxane	2500 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		
							2-Methyl-2-propanol	1000 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	5000 ug/mL
							Propionitrile	1000 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_V#4C_00126	10 uL	1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,2-Dichloro-1,1,2-trifluoroethane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							Benzyl chloride	50 ug/mL
							Butadiene	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
							Isopropyl ether	50 ug/mL
							Methyl methacrylate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							n-Heptane	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
					MSV_V_VOA2_00074	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	5000 ug/mL
							Propionitrile	1000 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_V_VOA3_00072	100 uL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							2-Nitropropane	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
							Acrylonitrile	250 ug/mL
							Tetrahydrofuran	500 ug/mL
							Acrolein	2499.89 ug/mL
.MSV_V#1B_00146	03/31/23		Restek, Lot A0158586		(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

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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		
							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-Trichlorobenzene	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
							1-Chlorohexane	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
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
.MSV_V#2B_00197	04/07/21		Restek, Lot A0159694		(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 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		
							Methacrylonitrile	12500 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
.MSV_V#4C_00126	03/31/21		Restek, Lot A0158660		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2-Dichloro-1,1,2-trifluoroethane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL
							Benzyl chloride	5000 ug/mL
							Butadiene	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
							Isopropyl ether	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
							n-Heptane	5000 ug/mL
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	5000 ug/mL
.MSV_V_VOA2_00074	04/07/21	03/08/21	Methanol, Lot DZ644	5 mL	MSV_V#2B_00198	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_00198	04/07/21		Restek, Lot A0159694		(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_V_VOA3_00072	04/07/21	03/08/21	Methanol, Lot DZ644	5 mL	MSV_V#3B_00085	1 mL	2-Butanone (MEK)	5000 ug/mL
							2-Hexanone	5000 ug/mL
							2-Nitropropane	5000 ug/mL
							4-Methyl-2-pentanone (MIBK)	5000 ug/mL
							Acetone	5000 ug/mL
							Acrylonitrile	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
					MSV_VACR_00015	1 mL	Acrolein	24998.9 ug/mL
..MSV_V#3B_00085	04/07/21		Restek, Lot A0158677		(Purchased Reagent)		2-Butanone (MEK)	25000 ug/mL
							2-Hexanone	25000 ug/mL
							2-Nitropropane	25000 ug/mL
							4-Methyl-2-pentanone (MIBK)	25000 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		
							Acetone	25000 ug/mL
							Acrylonitrile	12500 ug/mL
							Tetrahydrofuran	25000 ug/mL
..MSV_VACR_00015	04/11/21	02/10/21	Methanol, Lot DZ644	10 mL	MSV_VACR_STK_00017	9.135 mL	Acrolein	124994 ug/mL
...MSV_VACR_STK_00017	04/11/21	02/10/21	Methanol, Lot DZ644	10 mL	MSV_ACROLEIN_00010	1.4603 g	Acrolein	136830 ug/mL
....MSV_ACROLEIN_00010	09/30/21	Chem Service, Lot 10804400			(Purchased Reagent)		Acrolein	0.937 g/g
MSV_RV4_826_00047	03/24/21	03/11/21	Methanol, Lot DZ644	1 mL	MSV_V_EE_00004	50 uL	Ethyl ether	50.0108 ug/mL
					MSV_V_VOA6_00078	50 uL	1,2,3-Trimethylbenzene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Methyl acetate	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Pentachloroethane	50 ug/mL
.MSV_V_EE_00004	04/21/21	10/21/20	Methanol, Lot DX212	100 mL	MSV_EE_MISCSK_00005	1.434 mL	Ethyl ether	1000.22 ug/mL
..MSV_EE_MISCSK_00005	04/21/21	10/21/20	Methanol, Lot DX212	10 mL	MSV_EE_Neat_00003	0.6975 g	Ethyl ether	69750 ug/mL
...MSV_EE_Neat_00003	11/30/21	Chem Service, Lot 7967000			(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_VOA6_00078	04/07/21	03/08/21	Methanol, Lot DZ644	5 mL	MSV_V#6_00062	1 mL	1,2,3-Trimethylbenzene	1000 ug/mL
							3-Chloro-1-propene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Methyl acetate	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							Pentachloroethane	1000 ug/mL
..MSV_V#6_00062	04/07/21	Restek, Lot A0158625			(Purchased Reagent)		1,2,3-Trimethylbenzene	5000 ug/mL
							3-Chloro-1-propene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Methyl acetate	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
							Pentachloroethane	5000 ug/mL
MSV_RV4GAS826_00118	03/18/21	03/11/21	Methanol, Lot DZ644	1 mL	MSV_DCFM_00035	25 uL	Dichlorofluoromethane	50 ug/mL
					MSV_V_Gas_00216	25 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_DCFM_00035	03/24/21	AccuStandard, Lot 220101035			(Purchased Reagent)		Dichlorofluoromethane	2000 ug/mL
.MSV_V_Gas_00216	03/18/21	Restek, Lot A0159812			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_V_BFB_00004							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Xylenes, Total	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45147-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSV_VBFB_STK_00005	0.124 mL	BFB	49.8282 ug/mL
.MSV_VBFB_STK_00005	07/14/21	01/14/21	Methanol, Lot DZ644	10 mL	MSV_4BFB_NEAT_00004	1.0046 g	BFB	100460 ug/mL
..MSV_4BFB_NEAT_00004	02/28/25	Chem Service, Lot 10727100			(Purchased Reagent)		BFB	1 g/g
MSV_V_BFB_00005							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Xylenes, Total	
					MSV_VBFB_STK_00005	0.124 mL	BFB	49.8282 ug/mL
.MSV_VBFB_STK_00005	07/14/21	01/14/21	Methanol, Lot DZ644	10 mL	MSV_4BFB_NEAT_00004	1.0046 g	BFB	100460 ug/mL
..MSV_4BFB_NEAT_00004	02/28/25	Chem Service, Lot 10727100			(Purchased Reagent)		BFB	1 g/g
MSV_V_SMRV4_00023	07/01/21	06/28/21	Methanol, Lot DZ644	1 mL	MSV_CCV_2CEVE_00007	200 uL	2-Chloroethyl vinyl ether	200 ug/mL
					MSV_VLKB_00005	400 uL	cis-1,4-Dichloro-2-butene	400.225 ug/mL
.MSV_CCV_2CEVE_00007	07/28/21	06/28/21	Methanol, Lot DZ644	5 mL	MSV_V_2CLEVE_00007	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
..MSV_V_2CLEVE_00007	04/30/24	Restek, Lot A0171422			(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
.MSV_VLKB_00005	09/02/21	03/02/21	Methanol, Lot DZ644	50 mL	MSV_Vc14d_STK_00004	1.018 mL	cis-1,4-Dichloro-2-butene	1000.56 ug/mL
..MSV_Vc14d_STK_00004	09/02/21	03/02/21	Methanol, Lot DX644	10 mL	MSV_c14dcb_Nt_00003	0.5173 g	cis-1,4-Dichloro-2-butene	49143.5 ug/mL
...MSV_c14dcb_Nt_00003	08/11/25	Aldrich, Lot SHBH4584V			(Purchased Reagent)		cis-1,4-Dichloro-2-butene	0.95 g/g
MSV_V_VOA5_00025	07/28/21	06/28/21	Methanol, Lot DZ644	10 mL	MSV_V_Acetate_00030	1 mL	Ethyl acetate	200 ug/mL
							Vinyl acetate	200 ug/mL
.MSV_V_Acetate_00030	07/28/21	Restek, Lot A0165179			(Purchased Reagent)		Ethyl acetate	2000 ug/mL
							Vinyl acetate	2000 ug/mL
MSV_VAcet_00007	10/20/21	04/20/21	Methanol, Lot DZ644	100 mL	MSV_Acet_MSTK_00006	2.199 mL	Acetonitrile	4999.65 ug/mL
.MSV_Acet_MSTK_00006	10/20/21	04/20/21	Methanol, Lot DZ644	10 mL	MSV_Acet_00008	2.2736 g	Acetonitrile	227360 ug/mL
..MSV_Acet_00008	04/30/22	Chem Service, Lot 10395900			(Purchased Reagent)		Acetonitrile	1 g/g
MSV_VCYC_00006	08/15/21	02/15/21	50/50 MeOH/Water, Lot DZ644	200 mL	MSV_VCYC_STK_00005	6.278 mL	Cyclohexanone	6250.06 ug/mL
.MSV_VCYC_STK_00005	08/15/21	02/15/21	50/50 MeOH/Water, Lot DZ644	10 mL	MSV_CYC_00004	1.9911 g	Cyclohexanone	199110 ug/mL
..MSV_CYC_00004	05/31/23	Chem Service, Lot 10974900			(Purchased Reagent)		Cyclohexanone	1 g/g

Reagent

MSV_502QGas_00154

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Certificate of Analysis

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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 55669.SEC **Lot No.:** A0155823

Description : Custom 502.2 "Q" Gas Mix

Custom 502.2 "Q" Gas Mix 2,000µg/mL, P&T Methanol, 1mL/ampul

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

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,016.5 µg/mL	+/- 19.3550 µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 26165)		+/- 114.1077 µg/mL	Unstressed
	Purity 99%		+/- 116.7296 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,005.6 µg/mL	+/- 18.7428 µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 113.4037 µg/mL	Unstressed
	Purity 99%		+/- 116.0133 µg/mL	Stressed
3	Vinyl chloride	2,004.4 µg/mL	+/- 15.4000 µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 112.8325 µg/mL	Unstressed
	Purity 99%		+/- 115.4519 µg/mL	Stressed
4	Bromomethane (methyl bromide)	2,022.0 µg/mL	+/- 18.0735 µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot Q119-46)		+/- 114.2018 µg/mL	Unstressed
	Purity 99%		+/- 116.8358 µg/mL	Stressed
5	Chloroethane (ethyl chloride)	2,013.1 µg/mL	+/- 20.5181 µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/- 114.1209 µg/mL	Unstressed
	Purity 99%		+/- 116.7336 µg/mL	Stressed
6	Trichlorofluoromethane (CFC-11)	2,001.1 µg/mL	+/- 17.4531 µg/mL	Gravimetric
	CAS # 75-69-4.SEC (Lot 253600)		+/- 112.9531 µg/mL	Unstressed
	Purity 99%		+/- 115.5613 µg/mL	Stressed

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

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

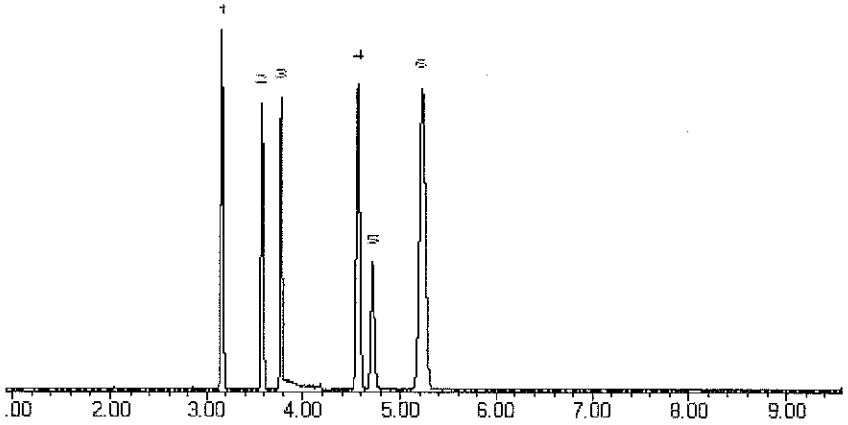
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Lane Kibe - Mix Technician

Date Mixed: 16-Dec-2019 **Balance:** 1127510105

Amanda Miller - Operations Tech-ARM QC

Date Passed: 27-Dec-2019

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

Reagent

MSV_8260_SS_00293

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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. : 55671 **Lot No.:** A0146938

Description : 8260A Surrogate Mix

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

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

Expiration Date : March 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibromofluoromethane		2,505.2 µg/mL	+/- 14.5653	µg/mL	Gravimetric
	CAS # 1868-53-7	(Lot 0012016)		+/- 140.4622	µg/mL	Unstressed
	Purity 99%			+/- 143.7488	µg/mL	Stressed
2	1,2-Dichloroethane-d4		2,517.2 µg/mL	+/- 14.6350	µg/mL	Gravimetric
	CAS # 17060-07-0	(Lot PR-26748)		+/- 141.1350	µg/mL	Unstressed
	Purity 99%			+/- 144.4374	µg/mL	Stressed
3	Toluene-d8		2,507.7 µg/mL	+/- 14.5798	µg/mL	Gravimetric
	CAS # 2037-26-5	(Lot PR-27311)		+/- 140.6024	µg/mL	Unstressed
	Purity 99%			+/- 143.8923	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)		2,507.7 µg/mL	+/- 14.5798	µg/mL	Gravimetric
	CAS # 460-00-4	(Lot 20401KO)		+/- 140.6024	µg/mL	Unstressed
	Purity 99%			+/- 143.8923	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)

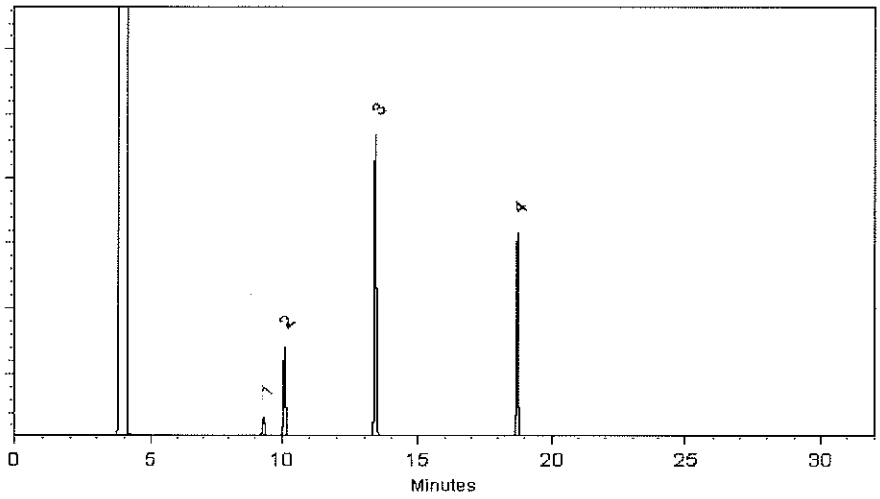
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Maggie Wang
Maggie Wang - Operations Technician I

Date Mixed: 12-Mar-2019 **Balance:** 1128342314

Jennifer J Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 15-Mar-2019

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

Reagent

MSV_8260_SS_00366

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 55671 **Lot No.:** A0146938

Description : 8260A Surrogate Mix

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

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

Expiration Date : March 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibromofluoromethane		2,505.2 µg/mL	+/- 14.5653	µg/mL	Gravimetric
	CAS # 1868-53-7	(Lot 0012016)		+/- 140.4622	µg/mL	Unstressed
	Purity 99%			+/- 143.7488	µg/mL	Stressed
2	1,2-Dichloroethane-d4		2,517.2 µg/mL	+/- 14.6350	µg/mL	Gravimetric
	CAS # 17060-07-0	(Lot PR-26748)		+/- 141.1350	µg/mL	Unstressed
	Purity 99%			+/- 144.4374	µg/mL	Stressed
3	Toluene-d8		2,507.7 µg/mL	+/- 14.5798	µg/mL	Gravimetric
	CAS # 2037-26-5	(Lot PR-27311)		+/- 140.6024	µg/mL	Unstressed
	Purity 99%			+/- 143.8923	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)		2,507.7 µg/mL	+/- 14.5798	µg/mL	Gravimetric
	CAS # 460-00-4	(Lot 20401KO)		+/- 140.6024	µg/mL	Unstressed
	Purity 99%			+/- 143.8923	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)

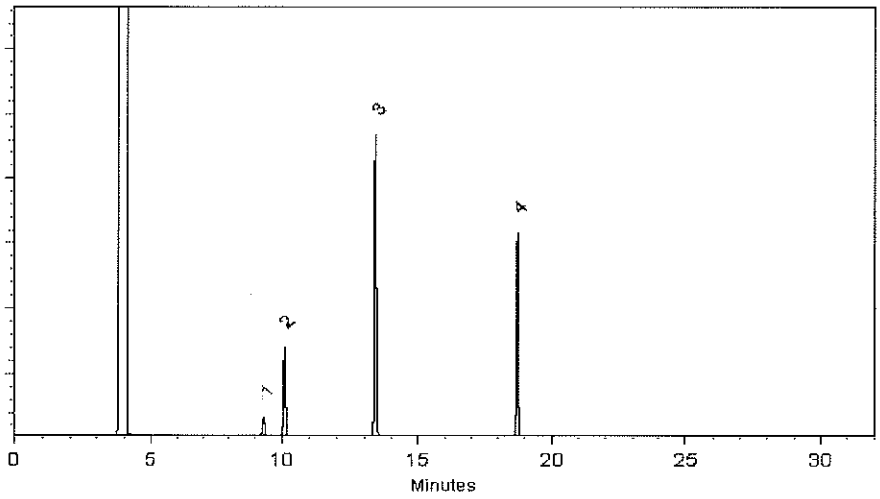
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Maggie Wang
Maggie Wang - Operations Technician I

Date Mixed: 12-Mar-2019 **Balance:** 1128342314

Jennifer J Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 15-Mar-2019

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

Reagent

MSV_8260_SS_00462

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Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 55671 **Lot No.:** A0163445

Description : 8260A Surrogate Mix

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

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

Expiration Date : August 31, 2023 **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	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 0012016) **Purity** 99%	2,510.0 µg/mL	+/- 14.7301 µg/mL +/- 140.7475 µg/mL +/- 144.0401 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot PR-29377) **Purity** 99%	2,520.0 µg/mL	+/- 14.7888 µg/mL +/- 141.3082 µg/mL +/- 144.6140 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot PR-30867) **Purity** 99%	2,518.8 µg/mL	+/- 14.7814 µg/mL +/- 141.2381 µg/mL +/- 144.5422 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KO) **Purity** 99%	2,513.8 µg/mL	+/- 14.7521 µg/mL +/- 140.9577 µg/mL +/- 144.2553 µg/mL	Gravimetric Unstressed Stressed

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

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

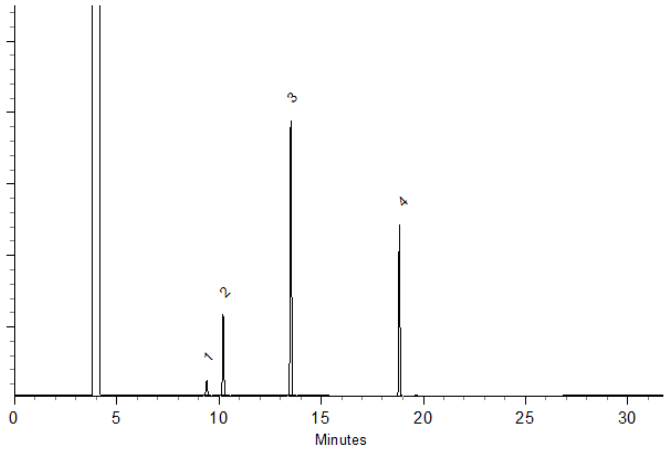
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Cory Meyer - Operations Tech I

Date Mixed: 12-Aug-2020 **Balance:** 1128360905

Justine Albertson - Operations Tech-ARM QC

Date Passed: 17-Aug-2020

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_Acet_00008

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

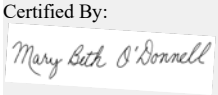
Acetonitrile

CATALOG NUMBER	N-11018-1G
LOT NUMBER	10395900
DATE CERTIFIED	04/07/16
EXPIRATION DATE	04/30/22
CAS NUMBER	75-05-8
MOLECULAR FORMULA	C2H3N
MOLECULAR WEIGHT	41.06
STORAGE	Store at room temperature (20 - 25 °C).
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

Analytical Test	Value
% PURITY (GC/FID)	99.5

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

Certified By:



N-12267-1G Mary Beth O'Donnell
CSM/TC

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

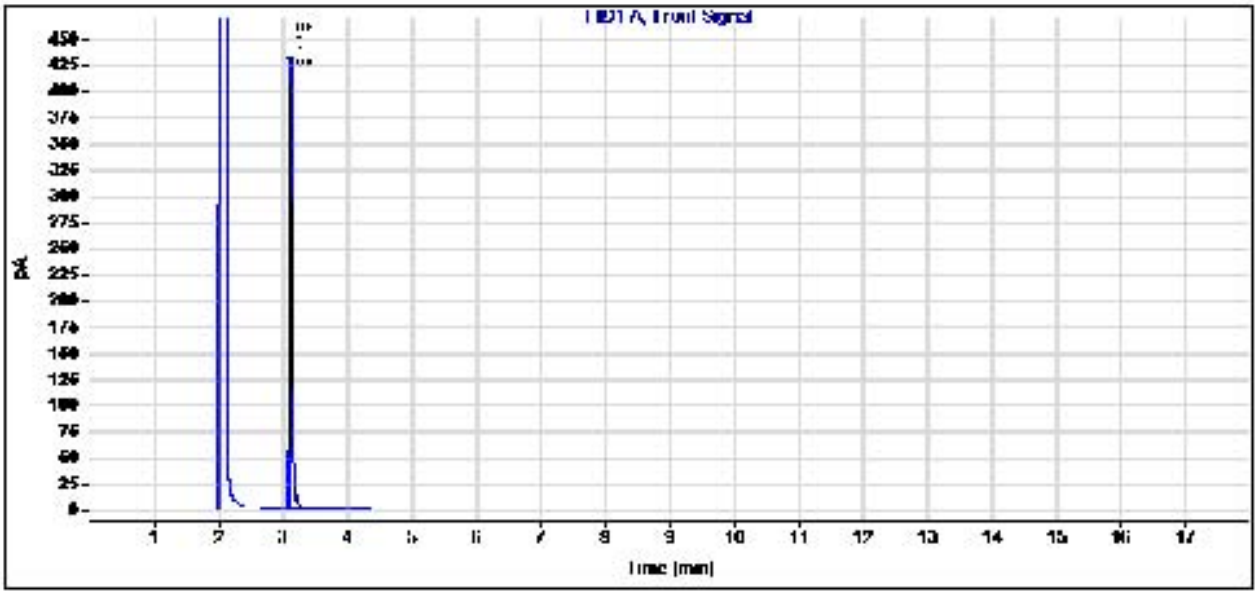
CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\0316\SIG1007540.D

Sample name: Acetonitrile

Instrument:	GC 1	**Sample type:**	Sample
Injection date:	4/6/2016 3:50:09 PM	**Location:**	Vial 1
Acq. method:	MIX1.M	**Injection volume:**	1.0uL
Column name:	DB-624 (30m x 0.53mm x 3.0um)		



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
3.118	BB	0.0357	1013.4056	426.7031	100.0000
		Sum	1013.4056		

Reagent

MSV_ACROLEIN_00012

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	10804400
DATE CERTIFIED	09/30/20
EXPIRATION DATE	09/30/21
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
% PURITY (GC/TCD)	93.7

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

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
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CERTIFICATE OF ANALYSIS

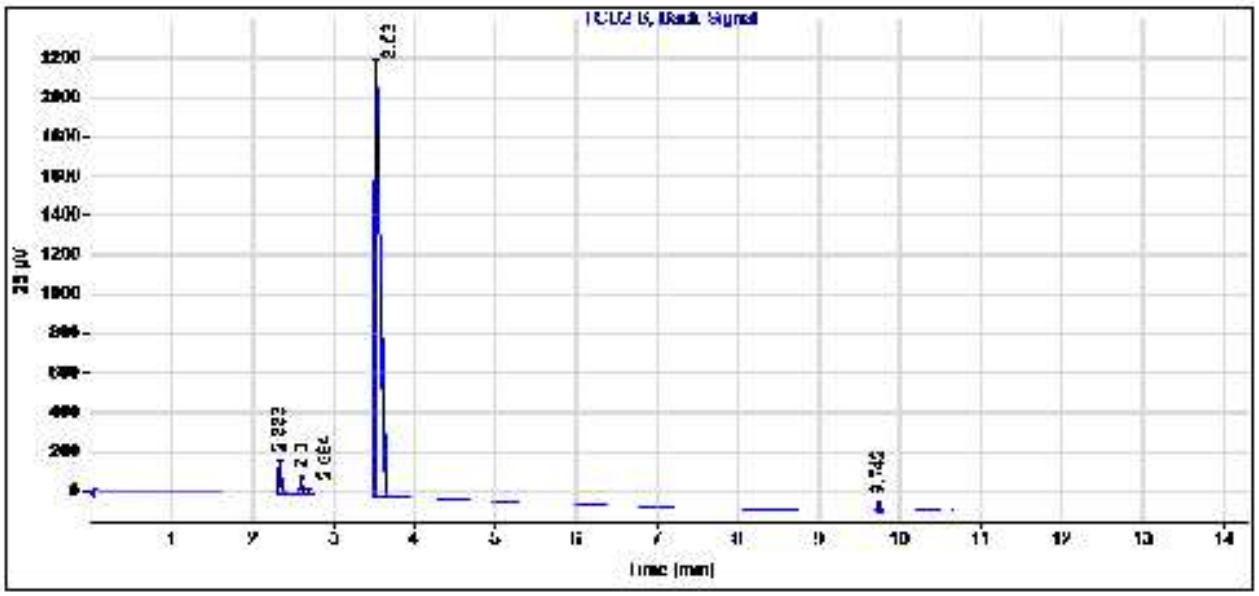
Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2020 DATA\0920\SIG2022755.D

Sample name: Acrolein

Instrument: GC 1
Injection date: 9/30/2020 9:06:04 AM
Acq. method: GASBOMB_TCD.M
Column name: DB-624 (30m x 0.53mm x 3.0um)

Sample type: Blank
Location:
Injection volume: 1.0uL



Signal: TCD2 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
2.333	BB	0.0403	382.4806	147.1463	3.9725
2.600	BV	0.0380	151.1861	63.0647	1.5703
2.684	VB	0.0386	21.2574	8.3698	0.2208
3.530	BB S	0.0570	9029.5508	2193.4321	93.7829
9.742	BB	0.0333	43.6692	20.1758	0.4536
		Sum	9628.1440		

Reagent

MSV_c14dcb_Nt_00003

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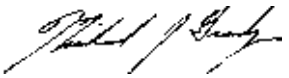
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

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

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

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



Michael Grady, Manager
Quality Control
Sheboygan Falls, WI US

Reagent

MSV_CCV_GASES_00026

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

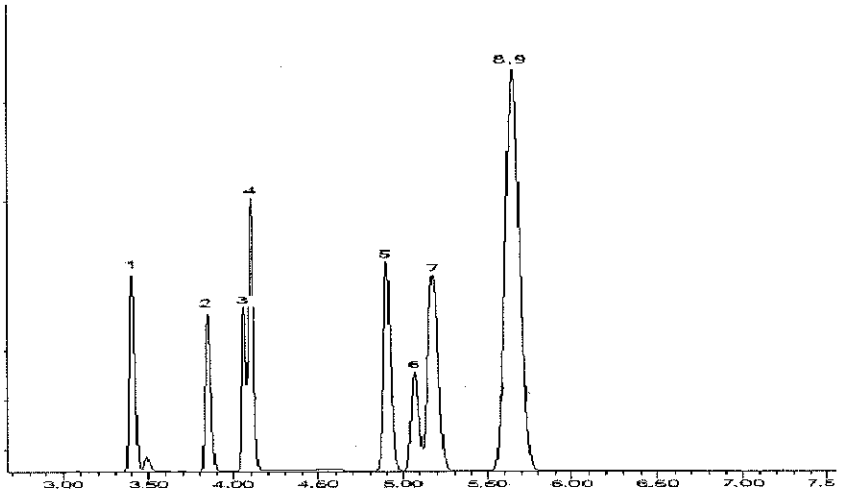
Carrier Gas:
helium-constant flow 2.0 mL/min.

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_00031

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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)

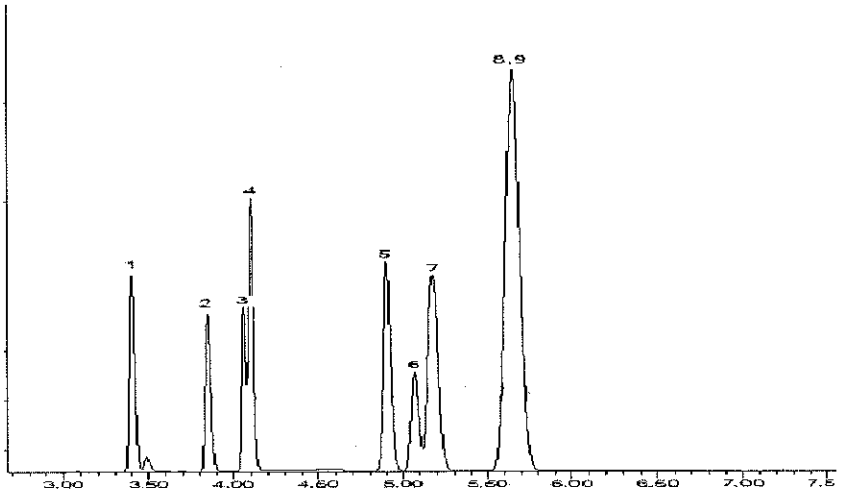
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.

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- 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_00179

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Fax: (814)353-1309

www.restek.com

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. : 558267 **Lot No.:** A0138205

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 : May 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butyl Alcohol-d10		12,613.8	µg/mL	+/- 73.3376	µg/mL	Gravimetric
	CAS # 53001-22-2	(Lot PR-29485)			+/- 270.0624	µg/mL	Unstressed
	Purity 98%				+/- 277.9136	µg/mL	Stressed
2	Fluorobenzene		2,517.8	µg/mL	+/- 14.6387	µg/mL	Gravimetric
	CAS # 462-06-6	(Lot BCBK8171V)			+/- 53.9064	µg/mL	Unstressed
	Purity 99%				+/- 55.4736	µg/mL	Stressed
3	Chlorobenzene-d5		2,518.8	µg/mL	+/- 14.6445	µg/mL	Gravimetric
	CAS # 3114-55-4	(Lot PR-22736)			+/- 53.9278	µg/mL	Unstressed
	Purity 99%				+/- 55.4956	µg/mL	Stressed
4	1,4-Dichlorobenzene-d4		2,511.0	µg/mL	+/- 14.5992	µg/mL	Gravimetric
	CAS # 3855-82-1	(Lot PR-18488)			+/- 53.7608	µg/mL	Unstressed
	Purity 99%				+/- 55.3237	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)

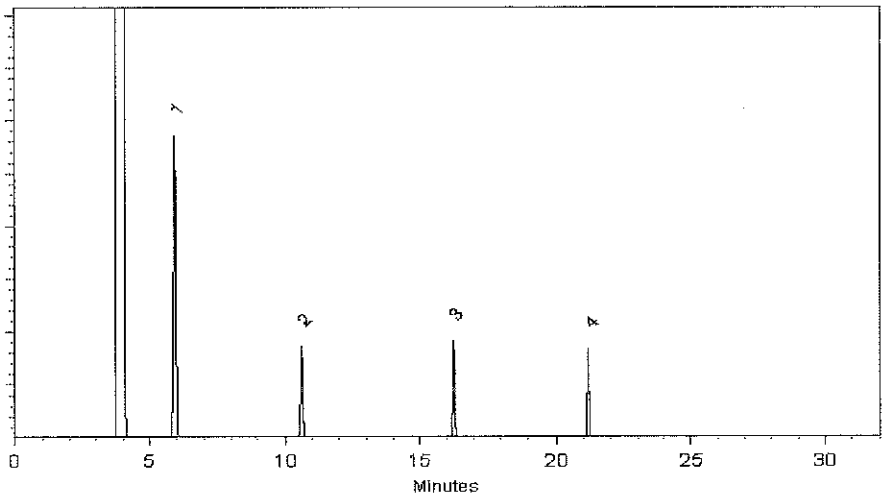
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Tom Suckar - Mix Technician

Date Mixed: 21-May-2018 **Balance:** 1128342314

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 23-May-2018

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

Reagent

MSV_Cus826_IS_00310

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Bellefonte, PA 16823-8812
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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. : 558267 **Lot No.:** A0160586

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 : May 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butyl Alcohol-d10		12,518.0	µg/mL	+/- 73.2956	µg/mL	Gravimetric
	CAS # 53001-22-2	(Lot PR-27803B)			+/- 268.1522	µg/mL	Unstressed
	Purity 99%				+/- 275.9398	µg/mL	Stressed
2	Fluorobenzene		2,506.0	µg/mL	+/- 14.7066	µg/mL	Gravimetric
	CAS # 462-06-6	(Lot BCBZ5549)			+/- 53.6910	µg/mL	Unstressed
	Purity 99%				+/- 55.2497	µg/mL	Stressed
3	Chlorobenzene-d5		2,512.0	µg/mL	+/- 14.7418	µg/mL	Gravimetric
	CAS # 3114-55-4	(Lot PR-29571)			+/- 53.8195	µg/mL	Unstressed
	Purity 99%				+/- 55.3820	µg/mL	Stressed
4	1,4-Dichlorobenzene-d4		2,520.0	µg/mL	+/- 14.7888	µg/mL	Gravimetric
	CAS # 3855-82-1	(Lot PR-30447)			+/- 53.9909	µg/mL	Unstressed
	Purity 99%				+/- 55.5584	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)

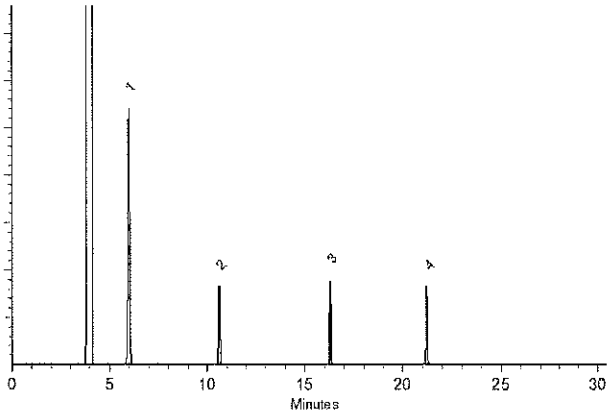
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Kylie Struble - Operations Technician I

Date Mixed: 05-May-2020 **Balance:** B707717271

Justine Albertson - Operations Tech-ARM QC

Date Passed: 06-May-2020

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

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25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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0°C or colder (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:

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Reagent

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
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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. : 558267 **Lot No.:** A0160586

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 : May 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butyl Alcohol-d10		12,518.0 µg/mL		+/- 73.2956	µg/mL	Gravimetric
	CAS # 53001-22-2	(Lot PR-27803B)			+/- 268.1522	µg/mL	Unstressed
	Purity 99%				+/- 275.9398	µg/mL	Stressed
2	Fluorobenzene		2,506.0 µg/mL		+/- 14.7066	µg/mL	Gravimetric
	CAS # 462-06-6	(Lot BCBZ5549)			+/- 53.6910	µg/mL	Unstressed
	Purity 99%				+/- 55.2497	µg/mL	Stressed
3	Chlorobenzene-d5		2,512.0 µg/mL		+/- 14.7418	µg/mL	Gravimetric
	CAS # 3114-55-4	(Lot PR-29571)			+/- 53.8195	µg/mL	Unstressed
	Purity 99%				+/- 55.3820	µg/mL	Stressed
4	1,4-Dichlorobenzene-d4		2,520.0 µg/mL		+/- 14.7888	µg/mL	Gravimetric
	CAS # 3855-82-1	(Lot PR-30447)			+/- 53.9909	µg/mL	Unstressed
	Purity 99%				+/- 55.5584	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)

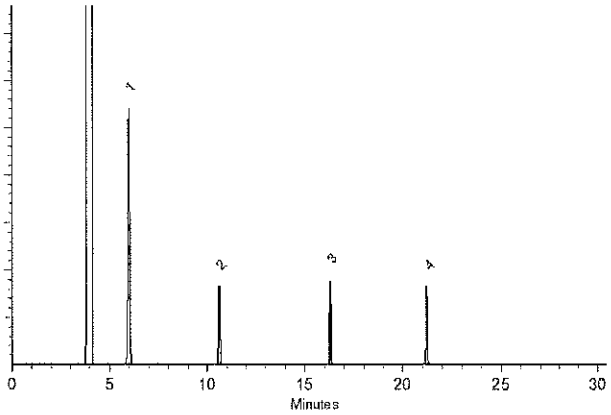
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Kylie Struble - Operations Technician I

Date Mixed: 05-May-2020 **Balance:** B707717271

Justine Albertson - Operations Tech-ARM QC

Date Passed: 06-May-2020

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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- 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:

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Handling Notes:

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

Reagent

MSV_CYC_00004

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

Cyclohexanone

CATALOG NUMBER	N-11531-1G
LOT NUMBER	10974900
DATE CERTIFIED	05/15/18
EXPIRATION DATE	05/31/23
CAS NUMBER	108-94-1
MOLECULAR FORMULA	C6H10O
MOLECULAR WEIGHT	98.16
STORAGE	Store at room temperature (20 - 25 °C).
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

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

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

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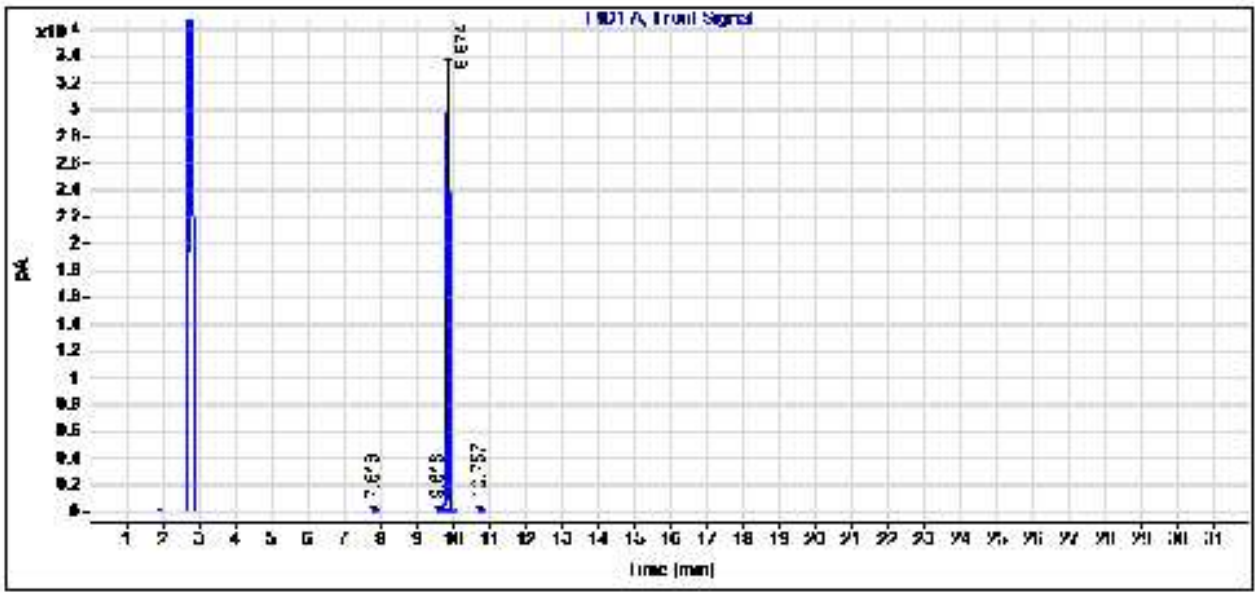
CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2018 DATA\0518\SIG1010143.D

Sample name: N-11531/ACETONE

Instrument:	GC 1	**Sample type:**	Sample
Injection date:	5/15/2018 8:14:17 AM	**Location:**	Vial 1
Acq. method:	MIX1.M	**Injection volume:**	1.0uL
Column name:	DB-624 (30m x 0.53mm x 3.0um)		



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
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9.616	BB	0.0420	22.9558	6.9935	0.0165
9.874	BB S	0.0575	138838.7188	33378.9727	99.9600
10.757	BB	0.0524	20.1641	4.8068	0.0145
		Sum	138894.3173		

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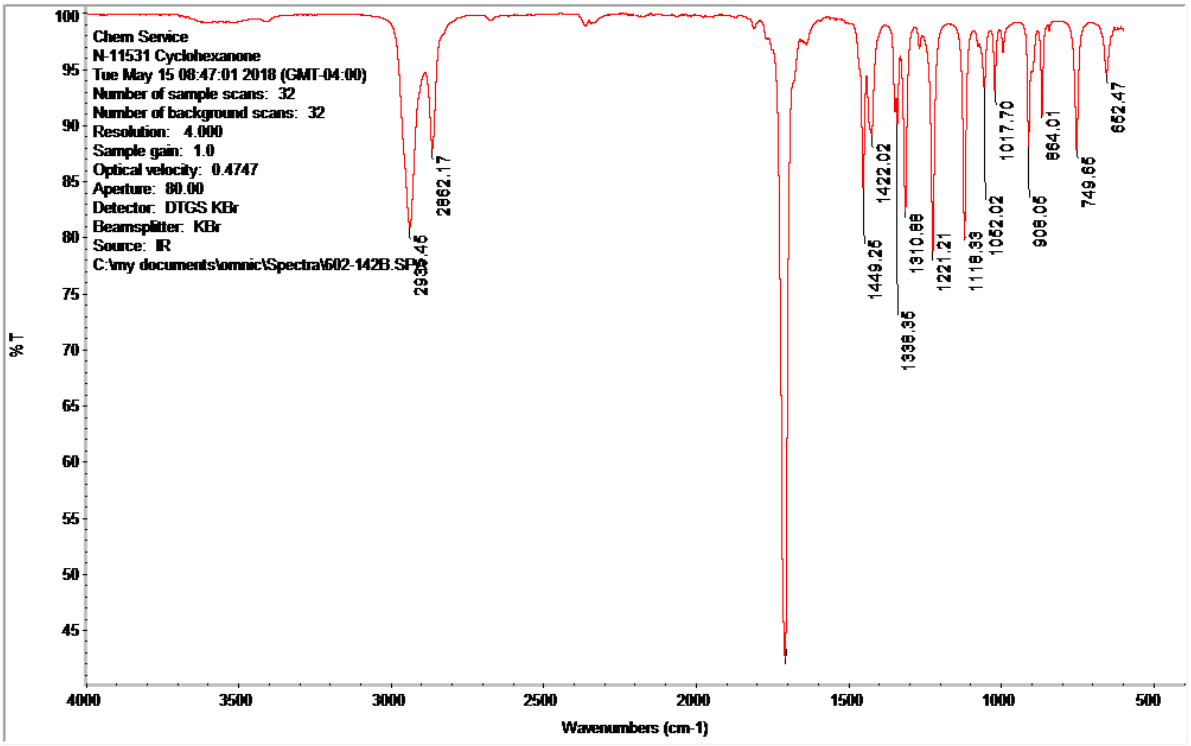
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-11531-1G
Description:	Cyclohexanone
Lot Number:	10974900
Expiration Date:	05/31/23



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

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-11531-1G
Description:	Cyclohexanone
Lot Number:	10974900
Expiration Date:	05/31/23

Reagent

MSV_DCFM_00035

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: M-502-61-10X
Description: Dichlorofluoromethane
Lot: 220101035
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Oct 6, 2020
Expiration: Oct 6, 2030
Sample Size: 1 mL
Components: 1
Storage Condition: Refrig (0-5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1339

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Dichlorofluoromethane	75-43-4	98.0	2006	1966

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

1. **Quality Standards:**

   ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

   ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories ANAB Certificate Number AT-1339

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations Certificate Number 3774

2. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.

3. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.

4. **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5. **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6. **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

Reagent

MSV_DME_00028

CERTIFIED WEIGHT REPORT

Part Number: 72297
Lot Number: 081920
Description: Methyl ether
[Dimethyl ether]
Expiration Date: 081925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 23060

Solvent(s): **Lot#**
Methanol DX932-US

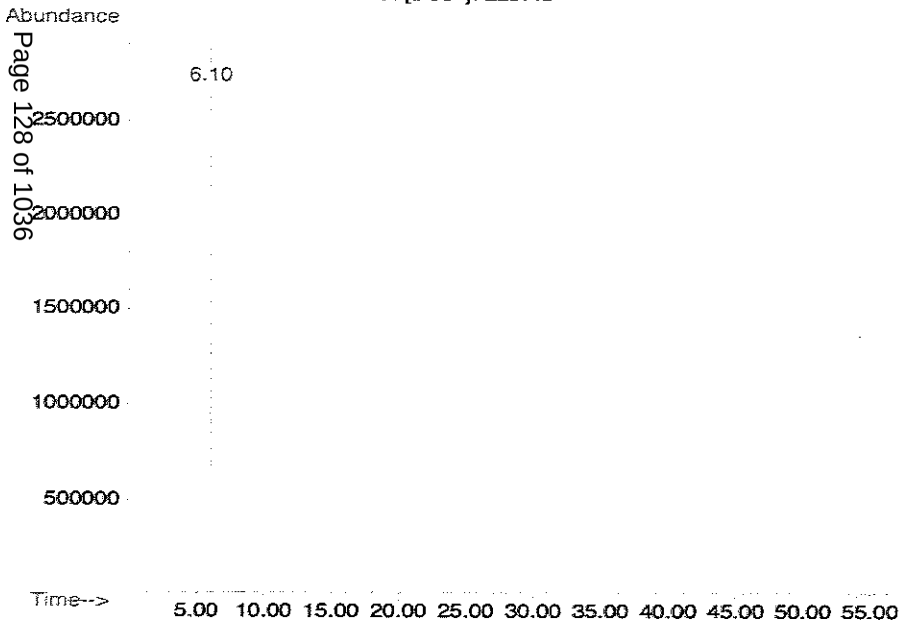
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.012 Flask Uncertainty

	081920
Formulated By: Vincent K. Criscio, Jr.	DATE
	081920
Reviewed By: Pedro L. Rentas	DATE

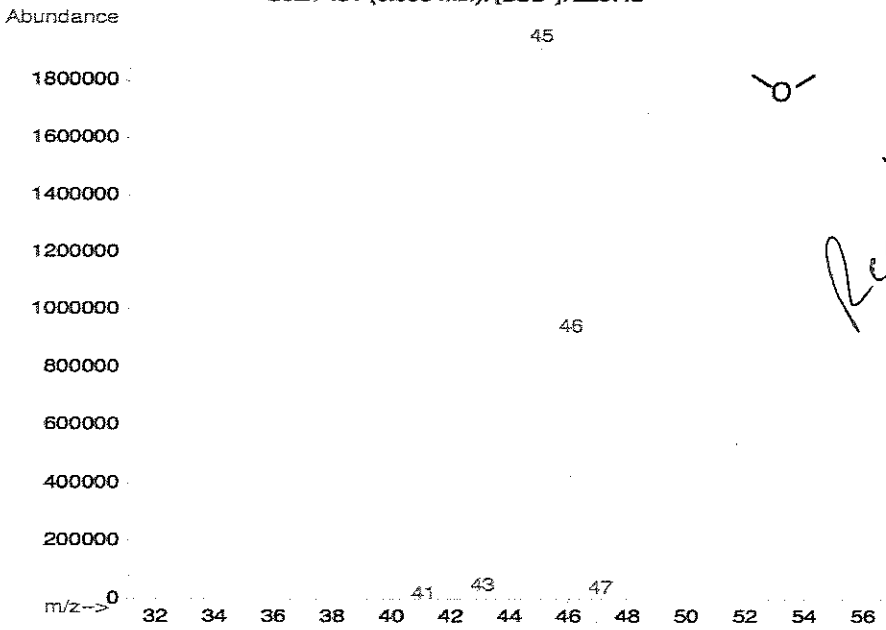
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) µg/mL	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Methyl ether	2297	00225LO	1000	99	0.2	0.10101	0.1020	1009.8	4.2	115-10-6	N/A	N/A

Method: GC6GAS. **Detector:** MSD (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1=35°C (9 min.), Temp. 2=200°C (1 min.), Rate=33°C/min., Injector Temp.=200°C, Detector Temp.=200°C. **Analyst:** Candice Warren.

TIC: [BSB*]72297.D



Scan 461 (6.098 min): [BSB*]72297.D



Rec'd 9/8/2020

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Reagent

MSV_EE_Neat_00003

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

CERTIFICATE OF ANALYSIS

Ethyl ether

CATALOG NUMBER	N-11897-1G
LOT NUMBER	7967000
DATE CERTIFIED	11/16/18
EXPIRATION DATE	11/30/21
CAS NUMBER	60-29-7
MOLECULAR FORMULA	C4H10O
MOLECULAR WEIGHT	74.12
STORAGE	Store under refrigeration.
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.
ISO GUIDE 34 CERTIFIED	[ ]

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

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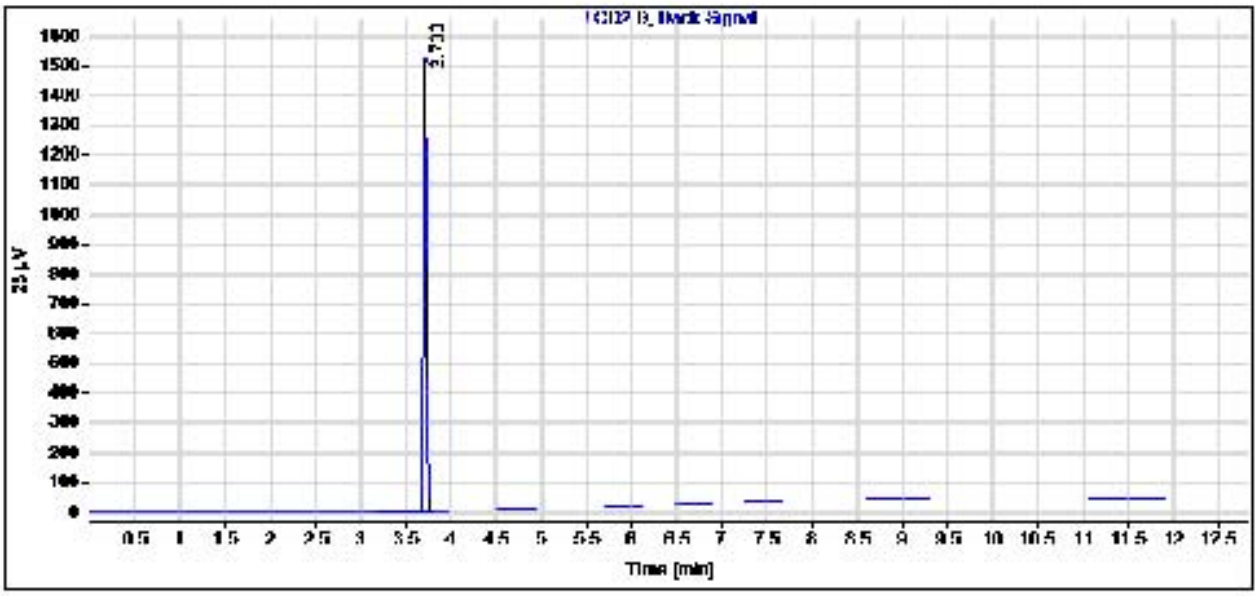
CERTIFICATE OF ANALYSIS

Gas Chromatography / Thermal Conductivity Detector (GC/TCD)

Data file: C:\CHEM32\1\DATA\2018 DATA\1118\SIG2080873.D

Sample name: Ethyl ether

Instrument:	GC 1	**Sample type:**	Sample
Injection date:	11/16/2018 10:06:22 AM	**Location:**	Vial 1
Acq. method:	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%
3.706	BV	0.0361	3473.9382	1497.5255	100.0000
		Sum	3473.9382		

Reagent

MSV_EthylMeth_00001

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CERTIFICATE OF ANALYSIS

Ethyl methacrylate

CATALOG NUMBER	N-11903-1G
LOT NUMBER	11325900
DATE CERTIFIED	01/03/19
EXPIRATION DATE	01/31/23
CAS NUMBER	97-63-2
MOLECULAR FORMULA	C6H10O2
MOLECULAR WEIGHT	114.16
STORAGE	Refrigerator storage (2 - 8 °C)
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

✓ Rec'd 5/21/2021 JMcB

Analytical Test	Value
% PURITY (GC/FID)	99.5

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

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

COA Form
Revision 3 (3/2015)

PJLA Testing

Print Date: 05/20/21

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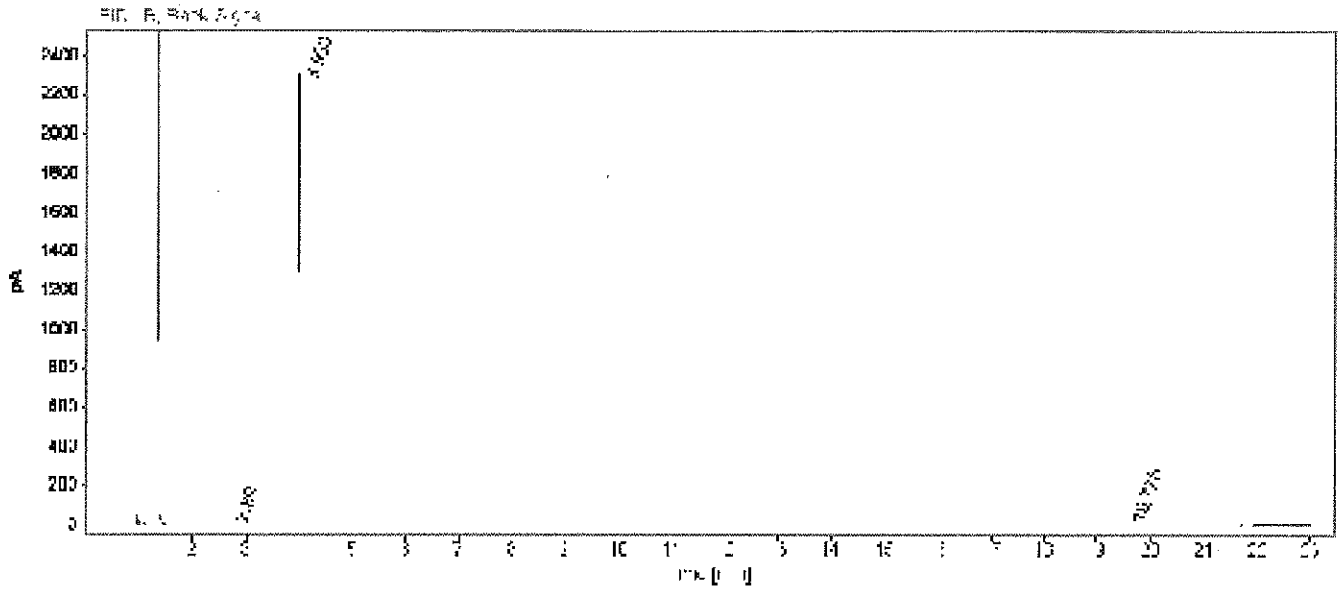
CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file:	C:\CHEM32\1\DATA\2018 DATA\1118\N-11803.D		
Sample name:	ethyl methacrylate		
Description:			
Acq. method:	MIX1.M		
		Location:	201
Instrument:	GC3	**Injection Vol:**	1.000
Injection date:	1/3/2019 7:57:33 AM	**# Of Injections:**	1
Column name:	HP-5ms Ultra Inert	**Diameter** 250.000 **Length** 30.000	**Particle Size** 0.250



Signal: FID1 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
2.890	BB	0.0199	3.0313	2.2234	0.0820
3.983	BB	0.0236	3687.9575	2288.7249	99.8245
19.775	BB	0.0395	3.4535	1.2477	0.0935
		Sum	3694.4423		

PJLA Testing

Reagent

MSV_M_MIX1SEC_00009

RESTEK®
110 Benner Circle
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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)

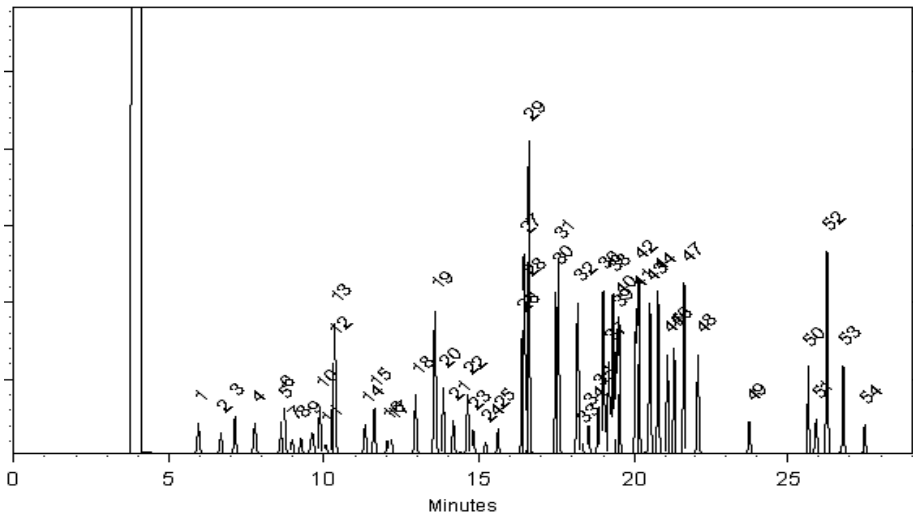
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_00010

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

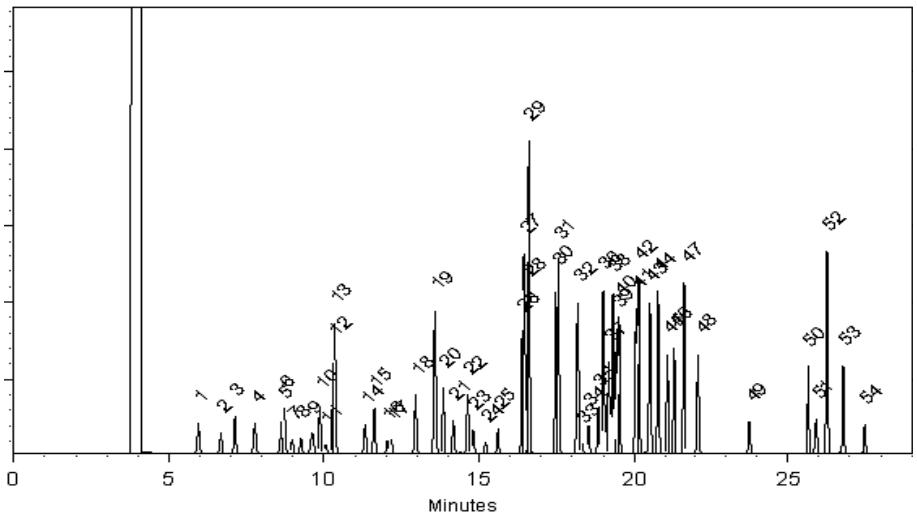
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_MIX2SEC_00009

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

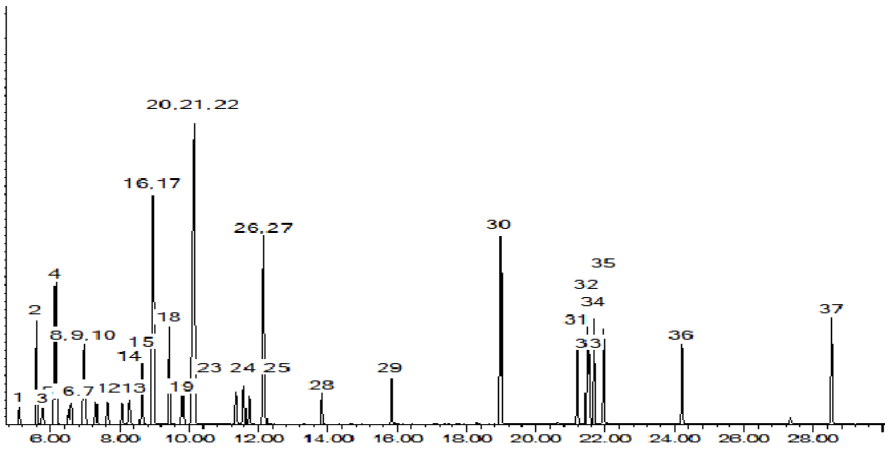
Carrier Gas:
helium-constant pressure 30 psi

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_00010

RESTEK®
110 Benner Circle
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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)

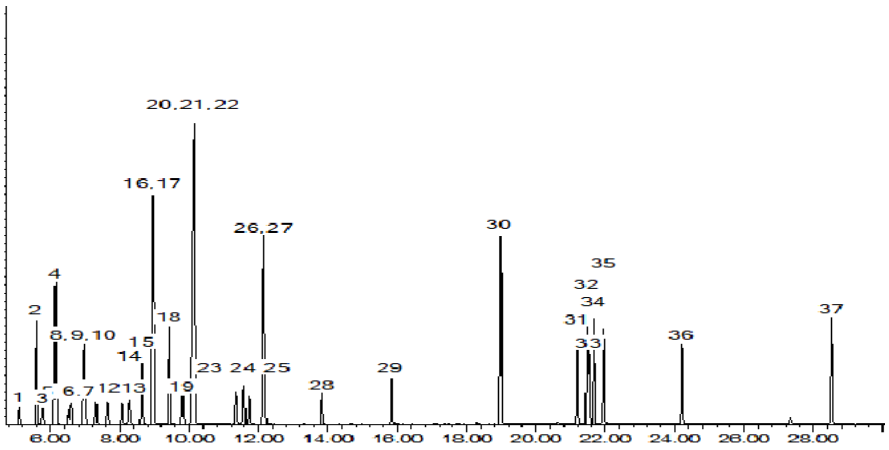
Carrier Gas:
helium-constant pressure 30 psi

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_MegaMIX#1_00005

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. : 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)

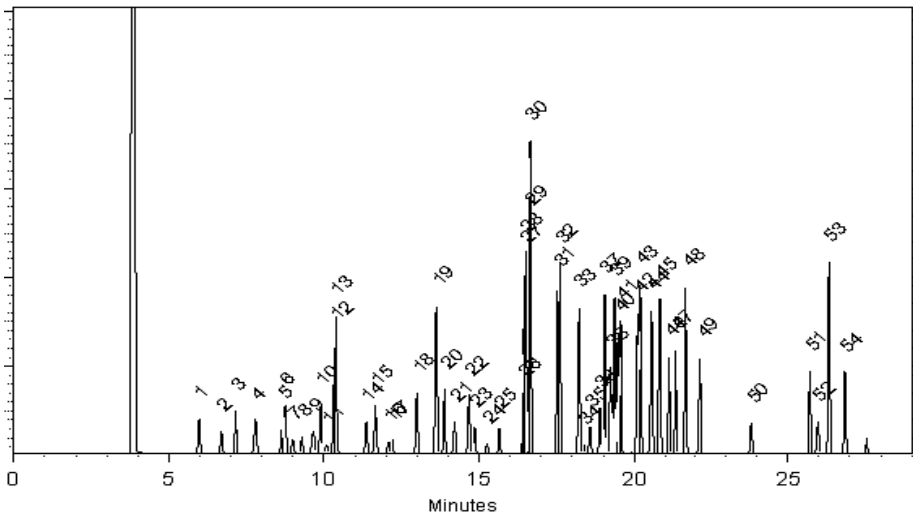
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_00007

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. : 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)

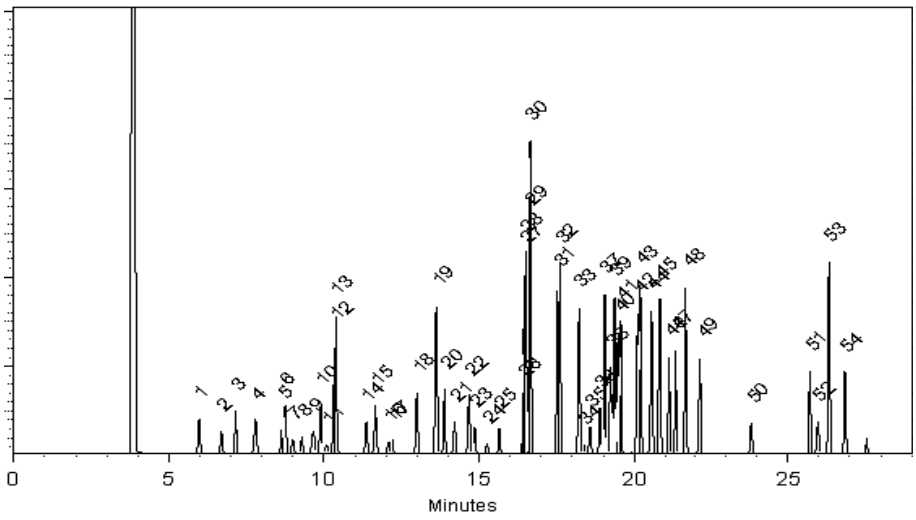
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_00005

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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577487 **Lot No.:** A0172089

Description : Custom VOC MegaMix® #2 Standard

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

X8 5/12/21

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	n-Pentane (C5)		5,015.5	µg/mL	+/- 31.9907	µg/mL	Gravimetric
	CAS # 109-66-0	(Lot SHBM2439)			+/- 248.4545	µg/mL	Unstressed
	Purity 99%				+/- 254.6155	µg/mL	Stressed
2	2-Propanol (isopropanol)		25,058.5	µg/mL	+/- 146.7230	µg/mL	Gravimetric
	CAS # 67-63-0	(Lot SHBM4333)			+/- 1,239.7116	µg/mL	Unstressed
	Purity 99%				+/- 1,270.5322	µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)		5,011.5	µg/mL	+/- 31.9652	µg/mL	Gravimetric
	CAS # 76-13-1	(Lot 00016133)			+/- 248.2564	µg/mL	Unstressed
	Purity 99%				+/- 254.4124	µg/mL	Stressed
4	tert-Butanol (TBA)		25,047.5	µg/mL	+/- 146.6586	µg/mL	Gravimetric
	CAS # 75-65-0	(Lot SHBM7694)			+/- 1,239.1674	µg/mL	Unstressed
	Purity 99%				+/- 1,269.9744	µg/mL	Stressed
5	Methyl acetate		5,006.8	µg/mL	+/- 31.9354	µg/mL	Gravimetric
	CAS # 79-20-9	(Lot SHBK5436)			+/- 248.0252	µg/mL	Unstressed
	Purity 99%				+/- 254.1755	µg/mL	Stressed
6	Iodomethane (methyl iodide)		5,011.2	µg/mL	+/- 31.9631	µg/mL	Gravimetric
	CAS # 74-88-4	(Lot RD210503)			+/- 248.2399	µg/mL	Unstressed
	Purity 99%				+/- 254.3955	µg/mL	Stressed
7	Allyl chloride (3-chloropropene)		5,007.0	µg/mL	+/- 31.9365	µg/mL	Gravimetric
	CAS # 107-05-1	(Lot RD210402)			+/- 248.0335	µg/mL	Unstressed
	Purity 99%				+/- 254.1839	µg/mL	Stressed

8	Carbon disulfide		5,014.7 µg/mL	+/-	31.9854	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot N28F701)		+/-	248.4132	µg/mL	Unstressed
	Purity 99%			+/-	254.5731	µg/mL	Stressed
9	Acrylonitrile		12,548.0 µg/mL	+/-	73.4713	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot M25F024)		+/-	620.7834	µg/mL	Unstressed
	Purity 99%			+/-	636.2168	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		5,010.0 µg/mL	+/-	31.9556	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBM3541)		+/-	248.1821	µg/mL	Unstressed
	Purity 99%			+/-	254.3362	µg/mL	Stressed
11	n-Hexane (C6)		5,009.3 µg/mL	+/-	31.9514	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBL9879)		+/-	248.1490	µg/mL	Unstressed
	Purity 99%			+/-	254.3024	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		5,015.0 µg/mL	+/-	31.9875	µg/mL	Gravimetric
	CAS # 108-20-3	(Lot SHBH1927V)		+/-	248.4298	µg/mL	Unstressed
	Purity 99%			+/-	254.5901	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		5,015.0 µg/mL	+/-	31.9875	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210413JLM)		+/-	248.4298	µg/mL	Unstressed
	Purity 99%			+/-	254.5901	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		5,011.5 µg/mL	+/-	31.9652	µg/mL	Gravimetric
	CAS # 637-92-3	(Lot MKCM3774)		+/-	248.2564	µg/mL	Unstressed
	Purity 99%			+/-	254.4124	µg/mL	Stressed
15	Propionitrile		25,085.0 µg/mL	+/-	146.8782	µg/mL	Gravimetric
	CAS # 107-12-0	(Lot BCBW0865)		+/-	1,241.0227	µg/mL	Unstressed
	Purity 99%			+/-	1,271.8758	µg/mL	Stressed
16	Methacrylonitrile		12,528.0 µg/mL	+/-	73.3542	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012014)		+/-	619.7940	µg/mL	Unstressed
	Purity 99%			+/-	635.2027	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,555.0 µg/mL	+/-	366.2544	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBM4836)		+/-	3,094.7625	µg/mL	Unstressed
	Purity 99%			+/-	3,171.7016	µg/mL	Stressed
18	Tetrahydrofuran		25,050.5 µg/mL	+/-	146.6762	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBM0434)		+/-	1,239.3159	µg/mL	Unstressed
	Purity 99%			+/-	1,270.1266	µg/mL	Stressed
19	Cyclohexane		5,017.5 µg/mL	+/-	32.0035	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKCF5831)		+/-	248.5536	µg/mL	Unstressed
	Purity 99%			+/-	254.7170	µg/mL	Stressed
20	1-Butanol		62,574.0 µg/mL	+/-	366.3656	µg/mL	Gravimetric
	CAS # 71-36-3	(Lot SHBM5061)		+/-	3,095.7025	µg/mL	Unstressed
	Purity 99%			+/-	3,172.6650	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		5,012.5 µg/mL	+/-	31.9716	µg/mL	Gravimetric
	CAS # 994-05-8	(Lot HMBG7745V)		+/-	248.3059	µg/mL	Unstressed
	Purity 99%			+/-	254.4632	µg/mL	Stressed
22	n-Heptane (C7)		5,012.5 µg/mL	+/-	31.9716	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SHBL9221)		+/-	248.3059	µg/mL	Unstressed
	Purity 99%			+/-	254.4632	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		5,012.7 µg/mL	+/-	31.9726	µg/mL	Gravimetric
	CAS # 919-94-8	(Lot 76U3A)		+/-	248.3142	µg/mL	Unstressed
	Purity 99%			+/-	254.4716	µg/mL	Stressed

24	Methylcyclohexane		5,015.2	µg/mL	+/-	31.9886	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBL0078)			+/-	248.4380	µg/mL	Unstressed
	Purity 99%				+/-	254.5985	µg/mL	Stressed
25	Methyl methacrylate		5,016.5	µg/mL	+/-	31.9971	µg/mL	Gravimetric
	CAS # 80-62-6	(Lot MKCN3027)			+/-	248.5041	µg/mL	Unstressed
	Purity 99%				+/-	254.6662	µg/mL	Stressed
26	1,4-Dioxane		62,582.5	µg/mL	+/-	366.4154	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBM5092)			+/-	3,096.1230	µg/mL	Unstressed
	Purity 99%				+/-	3,173.0960	µg/mL	Stressed
27	2-Nitropropane		25,020.2	µg/mL	+/-	146.4987	µg/mL	Gravimetric
	CAS # 79-46-9	(Lot BCCB9352)			+/-	1,237.8158	µg/mL	Unstressed
	Purity 97%				+/-	1,268.5893	µg/mL	Stressed
28	1-Chlorohexane		5,012.5	µg/mL	+/-	31.9718	µg/mL	Gravimetric
	CAS # 544-10-5	(Lot BCBS3368V)			+/-	248.3077	µg/mL	Unstressed
	Purity 98%				+/-	254.4650	µg/mL	Stressed
29	trans-1,4-dichloro-2-butene		12,532.9	µg/mL	+/-	73.3827	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot RD210331)			+/-	620.0352	µg/mL	Unstressed
	Purity 95%				+/-	635.4499	µg/mL	Stressed
30	1,2,3-Trimethylbenzene		5,009.9	µg/mL	+/-	31.9551	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 8776.10-36)			+/-	248.1783	µg/mL	Unstressed
	Purity 98%				+/-	254.3323	µg/mL	Stressed
31	1,3-Diethylbenzene		5,010.6	µg/mL	+/-	31.9593	µg/mL	Gravimetric
	CAS # 141-93-5	(Lot BCBT8967)			+/-	248.2106	µg/mL	Unstressed
	Purity 98%				+/-	254.3655	µg/mL	Stressed
32	Benzyl chloride		5,011.7	µg/mL	+/-	31.9663	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBH2102V)			+/-	248.2646	µg/mL	Unstressed
	Purity 99%				+/-	254.4209	µg/mL	Stressed
33	1,4-Diethylbenzene		5,008.5	µg/mL	+/-	31.9458	µg/mL	Gravimetric
	CAS # 105-05-5	(Lot RLHJK)			+/-	248.1055	µg/mL	Unstressed
	Purity 98%				+/-	254.2577	µg/mL	Stressed
34	1,2-Diethylbenzene		5,010.2	µg/mL	+/-	31.9567	µg/mL	Gravimetric
	CAS # 135-01-3	(Lot ECH2970181)			+/-	248.1903	µg/mL	Unstressed
	Purity 99%				+/-	254.3447	µg/mL	Stressed
35	1,3,5-Trichlorobenzene		5,012.0	µg/mL	+/-	31.9684	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/-	248.2811	µg/mL	Unstressed
	Purity 99%				+/-	254.4378	µg/mL	Stressed
36	2-Methylnaphthalene		5,009.0	µg/mL	+/-	31.9493	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot STBG8884)			+/-	248.1325	µg/mL	Unstressed
	Purity 99%				+/-	254.2855	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)

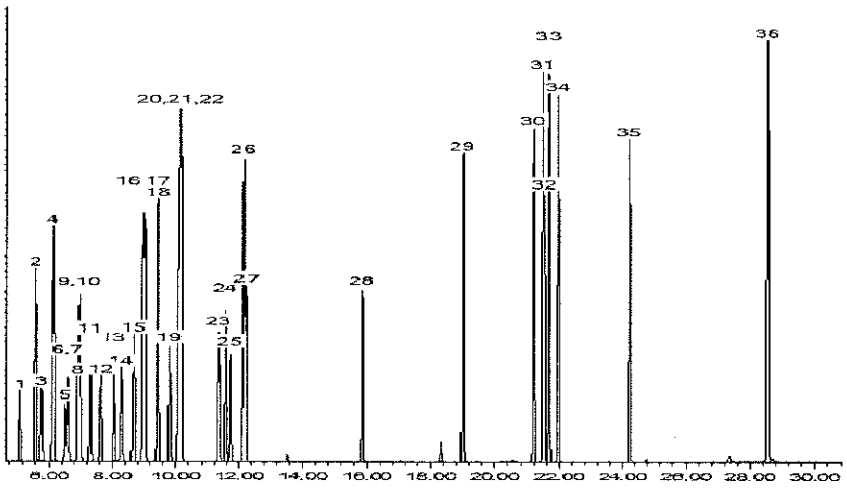
Carrier Gas:
hellum-constant pressure 30 psi

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.

Miranda Kline

Miranda Kline - Operations Technician I

Date Mixed: 05-May-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 11-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_MegaMix#2_00007

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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577487 **Lot No.:** A0172089

Description : Custom VOC MegaMix® #2 Standard

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

X8
5/12/21

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	n-Pentane (C5)	5,015.5 µg/mL	+/- 31.9907 µg/mL	Gravimetric
	CAS # 109-66-0 (Lot SHBM2439)		+/- 248.4545 µg/mL	Unstressed
	Purity 99%		+/- 254.6155 µg/mL	Stressed
2	2-Propanol (isopropanol)	25,058.5 µg/mL	+/- 146.7230 µg/mL	Gravimetric
	CAS # 67-63-0 (Lot SHBM4333)		+/- 1,239.7116 µg/mL	Unstressed
	Purity 99%		+/- 1,270.5322 µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	5,011.5 µg/mL	+/- 31.9652 µg/mL	Gravimetric
	CAS # 76-13-1 (Lot 00016133)		+/- 248.2564 µg/mL	Unstressed
	Purity 99%		+/- 254.4124 µg/mL	Stressed
4	tert-Butanol (TBA)	25,047.5 µg/mL	+/- 146.6586 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot SHBM7694)		+/- 1,239.1674 µg/mL	Unstressed
	Purity 99%		+/- 1,269.9744 µg/mL	Stressed
5	Methyl acetate	5,006.8 µg/mL	+/- 31.9354 µg/mL	Gravimetric
	CAS # 79-20-9 (Lot SHBK5436)		+/- 248.0252 µg/mL	Unstressed
	Purity 99%		+/- 254.1755 µg/mL	Stressed
6	Iodomethane (methyl iodide)	5,011.2 µg/mL	+/- 31.9631 µg/mL	Gravimetric
	CAS # 74-88-4 (Lot RD210503)		+/- 248.2399 µg/mL	Unstressed
	Purity 99%		+/- 254.3955 µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	5,007.0 µg/mL	+/- 31.9365 µg/mL	Gravimetric
	CAS # 107-05-1 (Lot RD210402)		+/- 248.0335 µg/mL	Unstressed
	Purity 99%		+/- 254.1839 µg/mL	Stressed

8	Carbon disulfide		5,014.7 µg/mL	+/-	31.9854	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot N28F701)		+/-	248.4132	µg/mL	Unstressed
	Purity 99%			+/-	254.5731	µg/mL	Stressed
9	Acrylonitrile		12,548.0 µg/mL	+/-	73.4713	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot M25F024)		+/-	620.7834	µg/mL	Unstressed
	Purity 99%			+/-	636.2168	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		5,010.0 µg/mL	+/-	31.9556	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBM3541)		+/-	248.1821	µg/mL	Unstressed
	Purity 99%			+/-	254.3362	µg/mL	Stressed
11	n-Hexane (C6)		5,009.3 µg/mL	+/-	31.9514	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBL9879)		+/-	248.1490	µg/mL	Unstressed
	Purity 99%			+/-	254.3024	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		5,015.0 µg/mL	+/-	31.9875	µg/mL	Gravimetric
	CAS # 108-20-3	(Lot SHBH1927V)		+/-	248.4298	µg/mL	Unstressed
	Purity 99%			+/-	254.5901	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		5,015.0 µg/mL	+/-	31.9875	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210413JLM)		+/-	248.4298	µg/mL	Unstressed
	Purity 99%			+/-	254.5901	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		5,011.5 µg/mL	+/-	31.9652	µg/mL	Gravimetric
	CAS # 637-92-3	(Lot MKCM3774)		+/-	248.2564	µg/mL	Unstressed
	Purity 99%			+/-	254.4124	µg/mL	Stressed
15	Propionitrile		25,085.0 µg/mL	+/-	146.8782	µg/mL	Gravimetric
	CAS # 107-12-0	(Lot BCBW0865)		+/-	1,241.0227	µg/mL	Unstressed
	Purity 99%			+/-	1,271.8758	µg/mL	Stressed
16	Methacrylonitrile		12,528.0 µg/mL	+/-	73.3542	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012014)		+/-	619.7940	µg/mL	Unstressed
	Purity 99%			+/-	635.2027	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,555.0 µg/mL	+/-	366.2544	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBM4836)		+/-	3,094.7625	µg/mL	Unstressed
	Purity 99%			+/-	3,171.7016	µg/mL	Stressed
18	Tetrahydrofuran		25,050.5 µg/mL	+/-	146.6762	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBM0434)		+/-	1,239.3159	µg/mL	Unstressed
	Purity 99%			+/-	1,270.1266	µg/mL	Stressed
19	Cyclohexane		5,017.5 µg/mL	+/-	32.0035	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKCF5831)		+/-	248.5536	µg/mL	Unstressed
	Purity 99%			+/-	254.7170	µg/mL	Stressed
20	1-Butanol		62,574.0 µg/mL	+/-	366.3656	µg/mL	Gravimetric
	CAS # 71-36-3	(Lot SHBM5061)		+/-	3,095.7025	µg/mL	Unstressed
	Purity 99%			+/-	3,172.6650	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		5,012.5 µg/mL	+/-	31.9716	µg/mL	Gravimetric
	CAS # 994-05-8	(Lot HMBG7745V)		+/-	248.3059	µg/mL	Unstressed
	Purity 99%			+/-	254.4632	µg/mL	Stressed
22	n-Heptane (C7)		5,012.5 µg/mL	+/-	31.9716	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SHBL9221)		+/-	248.3059	µg/mL	Unstressed
	Purity 99%			+/-	254.4632	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		5,012.7 µg/mL	+/-	31.9726	µg/mL	Gravimetric
	CAS # 919-94-8	(Lot 76U3A)		+/-	248.3142	µg/mL	Unstressed
	Purity 99%			+/-	254.4716	µg/mL	Stressed

24	Methylcyclohexane		5,015.2	µg/mL	+/-	31.9886	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBL0078)			+/-	248.4380	µg/mL	Unstressed
	Purity 99%				+/-	254.5985	µg/mL	Stressed
25	Methyl methacrylate		5,016.5	µg/mL	+/-	31.9971	µg/mL	Gravimetric
	CAS # 80-62-6	(Lot MKCN3027)			+/-	248.5041	µg/mL	Unstressed
	Purity 99%				+/-	254.6662	µg/mL	Stressed
26	1,4-Dioxane		62,582.5	µg/mL	+/-	366.4154	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBM5092)			+/-	3,096.1230	µg/mL	Unstressed
	Purity 99%				+/-	3,173.0960	µg/mL	Stressed
27	2-Nitropropane		25,020.2	µg/mL	+/-	146.4987	µg/mL	Gravimetric
	CAS # 79-46-9	(Lot BCCB9352)			+/-	1,237.8158	µg/mL	Unstressed
	Purity 97%				+/-	1,268.5893	µg/mL	Stressed
28	1-Chlorohexane		5,012.5	µg/mL	+/-	31.9718	µg/mL	Gravimetric
	CAS # 544-10-5	(Lot BCBS3368V)			+/-	248.3077	µg/mL	Unstressed
	Purity 98%				+/-	254.4650	µg/mL	Stressed
29	trans-1,4-dichloro-2-butene		12,532.9	µg/mL	+/-	73.3827	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot RD210331)			+/-	620.0352	µg/mL	Unstressed
	Purity 95%				+/-	635.4499	µg/mL	Stressed
30	1,2,3-Trimethylbenzene		5,009.9	µg/mL	+/-	31.9551	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 8776.10-36)			+/-	248.1783	µg/mL	Unstressed
	Purity 98%				+/-	254.3323	µg/mL	Stressed
31	1,3-Diethylbenzene		5,010.6	µg/mL	+/-	31.9593	µg/mL	Gravimetric
	CAS # 141-93-5	(Lot BCBT8967)			+/-	248.2106	µg/mL	Unstressed
	Purity 98%				+/-	254.3655	µg/mL	Stressed
32	Benzyl chloride		5,011.7	µg/mL	+/-	31.9663	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBH2102V)			+/-	248.2646	µg/mL	Unstressed
	Purity 99%				+/-	254.4209	µg/mL	Stressed
33	1,4-Diethylbenzene		5,008.5	µg/mL	+/-	31.9458	µg/mL	Gravimetric
	CAS # 105-05-5	(Lot RLHJK)			+/-	248.1055	µg/mL	Unstressed
	Purity 98%				+/-	254.2577	µg/mL	Stressed
34	1,2-Diethylbenzene		5,010.2	µg/mL	+/-	31.9567	µg/mL	Gravimetric
	CAS # 135-01-3	(Lot ECH2970181)			+/-	248.1903	µg/mL	Unstressed
	Purity 99%				+/-	254.3447	µg/mL	Stressed
35	1,3,5-Trichlorobenzene		5,012.0	µg/mL	+/-	31.9684	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/-	248.2811	µg/mL	Unstressed
	Purity 99%				+/-	254.4378	µg/mL	Stressed
36	2-Methylnaphthalene		5,009.0	µg/mL	+/-	31.9493	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot STBG8884)			+/-	248.1325	µg/mL	Unstressed
	Purity 99%				+/-	254.2855	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)

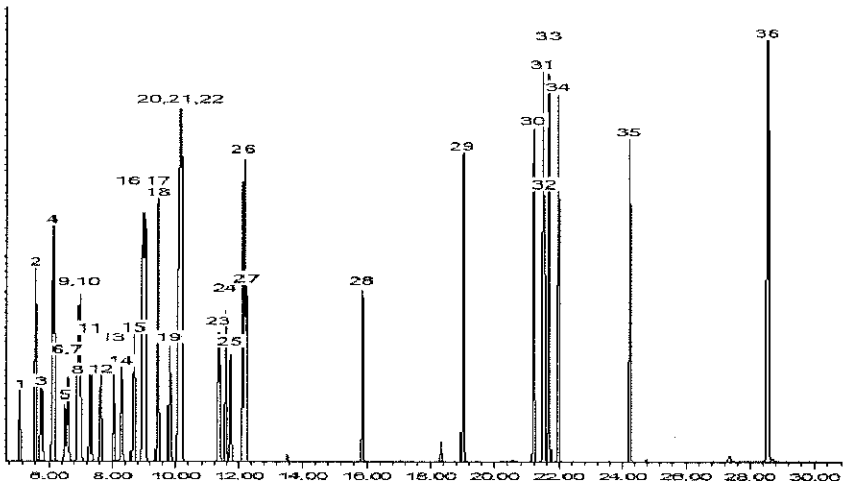
Carrier Gas:
hellum-constant pressure 30 psi

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.

Miranda Kline

Miranda Kline - Operations Technician I

Date Mixed: 05-May-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 11-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_Q#1B_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

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. : 569936-1.SEC **Lot No.:** A0165522

Description : Custom Revised Q #1B Standard

Custom Revised Q #1B Standard 1,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : October 31, 2023 **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	1,003.8 µg/mL	+/- 27.1548	µg/mL	Gravimetric
	CAS # 75-35-4.SEC (Lot 9201700)		+/- 62.2148	µg/mL	Unstressed
	Purity 99%		+/- 63.4085	µg/mL	Stressed
2	Methylene chloride (dichloromethane)	1,001.8 µg/mL	+/- 27.1007	µg/mL	Gravimetric
	CAS # 75-09-2.SEC (Lot FGM02)		+/- 62.0908	µg/mL	Unstressed
	Purity 99%		+/- 63.2822	µg/mL	Stressed
3	trans-1,2-Dichloroethene	1,000.3 µg/mL	+/- 27.0615	µg/mL	Gravimetric
	CAS # 156-60-5.SEC (Lot TS5UB)		+/- 62.0010	µg/mL	Unstressed
	Purity 99%		+/- 63.1906	µg/mL	Stressed
4	1,1-Dichloroethane	1,002.0 µg/mL	+/- 27.1075	µg/mL	Gravimetric
	CAS # 75-34-3.SEC (Lot 7482000)		+/- 62.1063	µg/mL	Unstressed
	Purity 99%		+/- 63.2980	µg/mL	Stressed
5	2,2-Dichloropropane	1,000.0 µg/mL	+/- 7.1361	µg/mL	Gravimetric
	CAS # 594-20-7.SEC (Lot I7E8E)		+/- 56.2215	µg/mL	Unstressed
	Purity 99%		+/- 57.5299	µg/mL	Stressed
6	cis-1,2-Dichloroethene	1,000.2 µg/mL	+/- 7.1372	µg/mL	Gravimetric
	CAS # 156-59-2.SEC (Lot YZO5O)		+/- 56.2305	µg/mL	Unstressed
	Purity 99%		+/- 57.5391	µg/mL	Stressed
7	Chloroform	1,000.8 µg/mL	+/- 27.0736	µg/mL	Gravimetric
	CAS # 67-66-3.SEC (Lot 1297547)		+/- 62.0289	µg/mL	Unstressed
	Purity 99%		+/- 63.2190	µg/mL	Stressed

8	1,1,1-trichloroethane		1,000.3	µg/mL	+/- 27.0618	µg/mL	Gravimetric
	CAS # 71-55-6 *	(Lot 190123CG)			+/- 62.0018	µg/mL	Unstressed
	Purity 98%				+/- 63.1914	µg/mL	Stressed
9	1,1-Dichloropropene		1,000.4	µg/mL	+/- 7.1389	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 556500)			+/- 56.2440	µg/mL	Unstressed
	Purity 99%				+/- 57.5529	µg/mL	Stressed
10	Carbon tetrachloride		1,000.8	µg/mL	+/- 27.0736	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/- 62.0289	µg/mL	Unstressed
	Purity 99%				+/- 63.2190	µg/mL	Stressed
11	1,2-Dichloroethane		1,000.6	µg/mL	+/- 27.0707	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot 00016165)			+/- 62.0222	µg/mL	Unstressed
	Purity 99%				+/- 63.2122	µg/mL	Stressed
12	Benzene		1,000.1	µg/mL	+/- 7.1366	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/- 56.2260	µg/mL	Unstressed
	Purity 99%				+/- 57.5345	µg/mL	Stressed
13	Trichloroethene		1,000.9	µg/mL	+/- 27.0771	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/- 62.0368	µg/mL	Unstressed
	Purity 99%				+/- 63.2271	µg/mL	Stressed
14	1,2-Dichloropropane		1,000.1	µg/mL	+/- 27.0571	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)			+/- 61.9910	µg/mL	Unstressed
	Purity 99%				+/- 63.1805	µg/mL	Stressed
15	Bromodichloromethane		1,000.8	µg/mL	+/- 27.0749	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)			+/- 62.0316	µg/mL	Unstressed
	Purity 99%				+/- 63.2218	µg/mL	Stressed
16	Dibromomethane		1,000.1	µg/mL	+/- 7.1366	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot MOKKJ)			+/- 56.2260	µg/mL	Unstressed
	Purity 99%				+/- 57.5345	µg/mL	Stressed
17	cis-1,3-Dichloropropene		1,000.9	µg/mL	+/- 27.0778	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/- 62.0384	µg/mL	Unstressed
	Purity 98%				+/- 63.2287	µg/mL	Stressed
18	Toluene		1,000.1	µg/mL	+/- 7.1366	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/- 56.2260	µg/mL	Unstressed
	Purity 99%				+/- 57.5345	µg/mL	Stressed
19	trans-1,3-Dichloropropene		1,002.1	µg/mL	+/- 27.1112	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/- 62.1150	µg/mL	Unstressed
	Purity 96%				+/- 63.3068	µg/mL	Stressed
20	1,1,2-Trichloroethane		1,001.3	µg/mL	+/- 27.0872	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)			+/- 62.0598	µg/mL	Unstressed
	Purity 99%				+/- 63.2506	µg/mL	Stressed
21	1,3-Dichloropropane		1,000.1	µg/mL	+/- 7.1366	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot IQCON)			+/- 56.2260	µg/mL	Unstressed
	Purity 99%				+/- 57.5345	µg/mL	Stressed
22	Tetrachloroethene		1,000.2	µg/mL	+/- 27.0598	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/- 61.9972	µg/mL	Unstressed
	Purity 99%				+/- 63.1868	µg/mL	Stressed
23	Dibromochloromethane		1,000.5	µg/mL	+/- 27.0665	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)			+/- 62.0126	µg/mL	Unstressed
	Purity 97%				+/- 63.2024	µg/mL	Stressed

24	1,2-Dibromoethane (EDB)		1,000.3	µg/mL	+/-	7.1384	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 8529900)			+/-	56.2395	µg/mL	Unstressed
	Purity 99%				+/-	57.5483	µg/mL	Stressed
25	1-Chlorohexane		1,002.0	µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 544-10-5.SEC	(Lot 8171700)			+/-	56.1943	µg/mL	Unstressed
	Purity 99%				+/-	57.5086	µg/mL	Stressed
26	Chlorobenzene		1,001.4	µg/mL	+/-	27.0909	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	62.0684	µg/mL	Unstressed
	Purity 99%				+/-	63.2593	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		1,000.5	µg/mL	+/-	7.1395	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot 9366000)			+/-	56.2485	µg/mL	Unstressed
	Purity 99%				+/-	57.5576	µg/mL	Stressed
28	Ethylbenzene		1,000.4	µg/mL	+/-	7.1389	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)			+/-	56.2440	µg/mL	Unstressed
	Purity 99%				+/-	57.5529	µg/mL	Stressed
29	m-Xylene		1,000.3	µg/mL	+/-	7.1384	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot OUKMG-GB)			+/-	56.2395	µg/mL	Unstressed
	Purity 99%				+/-	57.5483	µg/mL	Stressed
30	p-Xylene		1,000.0	µg/mL	+/-	7.1361	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot D6UOA)			+/-	56.2215	µg/mL	Unstressed
	Purity 99%				+/-	57.5299	µg/mL	Stressed
31	o-Xylene		1,000.2	µg/mL	+/-	7.1372	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)			+/-	56.2305	µg/mL	Unstressed
	Purity 99%				+/-	57.5391	µg/mL	Stressed
32	Styrene		1,000.5	µg/mL	+/-	7.1395	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot QGQ7F)			+/-	56.2485	µg/mL	Unstressed
	Purity 99%				+/-	57.5576	µg/mL	Stressed
33	Isopropylbenzene (cumene)		1,000.1	µg/mL	+/-	7.1366	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot WVREC)			+/-	56.2260	µg/mL	Unstressed
	Purity 99%				+/-	57.5345	µg/mL	Stressed
34	Bromoform		1,001.7	µg/mL	+/-	27.1004	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 9170700)			+/-	62.0902	µg/mL	Unstressed
	Purity 99%				+/-	63.2815	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		1,001.6	µg/mL	+/-	27.0978	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot BCCB0724)			+/-	62.0842	µg/mL	Unstressed
	Purity 98%				+/-	63.2754	µg/mL	Stressed
36	1,2,3-Trichloropropane		1,000.0	µg/mL	+/-	7.1361	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)			+/-	56.2215	µg/mL	Unstressed
	Purity 99%				+/-	57.5299	µg/mL	Stressed
37	n-Propylbenzene		1,000.2	µg/mL	+/-	7.1372	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)			+/-	56.2305	µg/mL	Unstressed
	Purity 99%				+/-	57.5391	µg/mL	Stressed
38	Bromobenzene		1,000.1	µg/mL	+/-	7.1366	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 8DKWJ)			+/-	56.2260	µg/mL	Unstressed
	Purity 99%				+/-	57.5345	µg/mL	Stressed
39	1,3,5-Trichlorobenzene		1,002.0	µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 108-70-3.SEC	(Lot I28U021)			+/-	56.1943	µg/mL	Unstressed
	Purity 99%				+/-	57.5086	µg/mL	Stressed

40	2-Chlorotoluene		1,000.1	µg/mL	+/- 7.1366	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot BRHPM)			+/- 56.2260	µg/mL	Unstressed
	Purity 99%				+/- 57.5345	µg/mL	Stressed
41	4-Chlorotoluene		1,000.1	µg/mL	+/- 7.1366	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot S5SKD)			+/- 56.2260	µg/mL	Unstressed
	Purity 99%				+/- 57.5345	µg/mL	Stressed
42	tert-Butylbenzene		1,000.2	µg/mL	+/- 7.1378	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/- 56.2350	µg/mL	Unstressed
	Purity 99%				+/- 57.5437	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		1,000.5	µg/mL	+/- 7.1395	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/- 56.2485	µg/mL	Unstressed
	Purity 99%				+/- 57.5576	µg/mL	Stressed
44	sec-Butylbenzene		1,000.0	µg/mL	+/- 7.1361	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot O4HRF)			+/- 56.2215	µg/mL	Unstressed
	Purity 99%				+/- 57.5299	µg/mL	Stressed
45	4-Isopropyltoluene (p-cymene)		1,000.2	µg/mL	+/- 7.1378	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 6628200)			+/- 56.2350	µg/mL	Unstressed
	Purity 99%				+/- 57.5437	µg/mL	Stressed
46	1,3-Dichlorobenzene		1,000.1	µg/mL	+/- 27.0551	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/- 61.9864	µg/mL	Unstressed
	Purity 99%				+/- 63.1757	µg/mL	Stressed
47	1,4-Dichlorobenzene		1,002.5	µg/mL	+/- 27.1206	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot YWKDC-MK)			+/- 62.1364	µg/mL	Unstressed
	Purity 99%				+/- 63.3286	µg/mL	Stressed
48	n-Butylbenzene		1,000.2	µg/mL	+/- 7.1372	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/- 56.2305	µg/mL	Unstressed
	Purity 99%				+/- 57.5391	µg/mL	Stressed
49	1,2-Dichlorobenzene		1,001.6	µg/mL	+/- 27.0966	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/- 62.0815	µg/mL	Unstressed
	Purity 99%				+/- 63.2727	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		1,000.5	µg/mL	+/- 7.1395	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot Q135-105)			+/- 56.2485	µg/mL	Unstressed
	Purity 99%				+/- 57.5576	µg/mL	Stressed
51	1,3,5-Trimethylbenzene		1,000.2	µg/mL	+/- 7.1372	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot TOOOF)			+/- 56.2305	µg/mL	Unstressed
	Purity 99%				+/- 57.5391	µg/mL	Stressed
52	1,2,4-Trichlorobenzene		1,000.2	µg/mL	+/- 7.1372	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot IGLFA)			+/- 56.2305	µg/mL	Unstressed
	Purity 99%				+/- 57.5391	µg/mL	Stressed
53	Hexachlorobutadiene		1,000.0	µg/mL	+/- 7.1363	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 6878400)			+/- 56.2232	µg/mL	Unstressed
	Purity 97%				+/- 57.5317	µg/mL	Stressed
54	Naphthalene		1,000.4	µg/mL	+/- 7.1389	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot SKZ5N)			+/- 56.2440	µg/mL	Unstressed
	Purity 99%				+/- 57.5529	µg/mL	Stressed
55	1,2,3-Trichlorobenzene		1,000.2	µg/mL	+/- 7.1377	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/- 56.2342	µg/mL	Unstressed
	Purity 98%				+/- 57.5430	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)

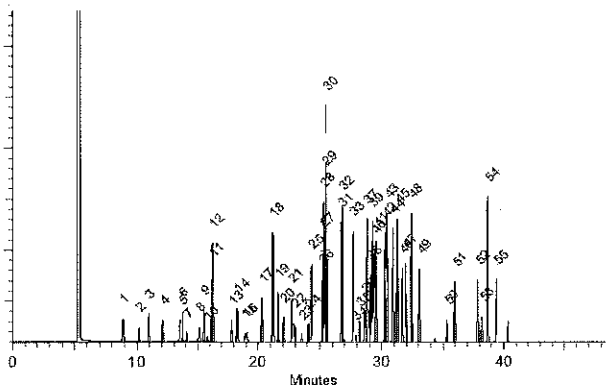
Carrier Gas:
hydrogen-constant pressure 8.0 psi.

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 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.

Michael J Maye

Date Mixed: 20-Oct-2020 **Balance:** 1128342314

Justine Albertson - Operations Tech-ARM QC

Date Passed: 23-Oct-2020

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#3B_00079

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

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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. : 56736.SEC **Lot No.:** A0158722

Description : Custom Q #3B Standard

Custom Q #3B Standard 1,000-7,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

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

Expiration Date : September 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	7,550.0 µg/mL	+/- 44.3076 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot U13B039)		+/- 373.5308 µg/mL	Unstressed
	Purity 99%		+/- 382.8166 µg/mL	Stressed
2	Acrylonitrile	5,003.0 µg/mL	+/- 29.3604 µg/mL	Gravimetric
	CAS # 107-13-1.SEC (Lot CCFKL-GL)		+/- 247.5198 µg/mL	Unstressed
	Purity 99%		+/- 253.6730 µg/mL	Stressed
3	2-Butanone (MEK)	7,517.0 µg/mL	+/- 44.1140 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 371.8982 µg/mL	Unstressed
	Purity 99%		+/- 381.1434 µg/mL	Stressed
4	Tetrahydrofuran	5,023.0 µg/mL	+/- 29.4778 µg/mL	Gravimetric
	CAS # 109-99-9.SEC (Lot 8DAOJ)		+/- 248.5093 µg/mL	Unstressed
	Purity 99%		+/- 254.6871 µg/mL	Stressed
5	2-Nitropropane	1,000.6 µg/mL	+/- 5.9431 µg/mL	Gravimetric
	CAS # 79-46-9.SEC (Lot Y4YWD)		+/- 49.5115 µg/mL	Unstressed
	Purity 98%		+/- 50.7419 µg/mL	Stressed
6	4-Methyl-2-pentanone (MIBK)	5,032.0 µg/mL	+/- 29.5306 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 248.9546 µg/mL	Unstressed
	Purity 99%		+/- 255.1435 µg/mL	Stressed
7	2-Hexanone	5,036.2 µg/mL	+/- 29.5554 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 249.1634 µg/mL	Unstressed
	Purity 98%		+/- 255.3574 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)

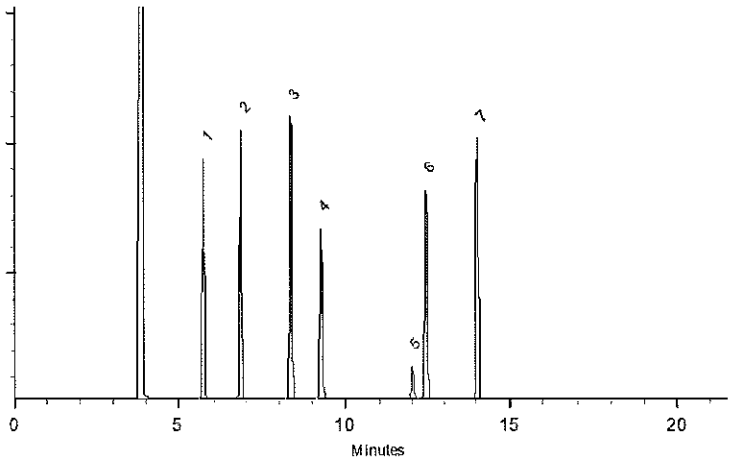
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Brandon Reish - Mix Technician

Date Mixed: 11-Mar-2020 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 19-Mar-2020

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

Reagent

MSV_Q#4C_00086

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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. : 572312.SEC **Lot No.:** A0158704

Description : Custom Q #4C (Rev 3) Standard

Custom Q #4C (Rev 3) Standard 1,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : March 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,3-Butadiene	999.8 µg/mL	+/- 9.3559 µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 24033)		+/- 60.7686 µg/mL	Unstressed
	Purity 99%		+/- 60.9107 µg/mL	Stressed
2	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	998.8 µg/mL	+/- 17.4916 µg/mL	Gravimetric
	CAS # 354-23-4 * (Lot Q9B-64)		+/- 62.4823 µg/mL	Unstressed
	Purity 99%		+/- 62.6203 µg/mL	Stressed
3	n-Pentane (C5)	1,002.5 µg/mL	+/- 5.8832 µg/mL	Gravimetric
	CAS # 109-66-0.SEC (Lot FGH02)		+/- 60.4906 µg/mL	Unstressed
	Purity 99%		+/- 60.6341 µg/mL	Stressed
4	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,003.5 µg/mL	+/- 5.8891 µg/mL	Gravimetric
	CAS # 76-13-1.SEC (Lot 18342)		+/- 60.5509 µg/mL	Unstressed
	Purity 99%		+/- 60.6946 µg/mL	Stressed
5	Iodomethane (methyl iodide)	1,008.0 µg/mL	+/- 5.9155 µg/mL	Gravimetric
	CAS # 74-88-4.SEC (Lot Y25A027)		+/- 60.8224 µg/mL	Unstressed
	Purity 99%		+/- 60.9668 µg/mL	Stressed
6	Carbon disulfide	1,005.0 µg/mL	+/- 5.8979 µg/mL	Gravimetric
	CAS # 75-15-0.SEC (Lot MKBL1376V)		+/- 60.6414 µg/mL	Unstressed
	Purity 99%		+/- 60.7854 µg/mL	Stressed
7	Methyl-tert-butyl ether (MTBE)	1,002.0 µg/mL	+/- 5.8803 µg/mL	Gravimetric
	CAS # 1634-04-4.SEC (Lot ZHKYA)		+/- 60.4604 µg/mL	Unstressed
	Purity 99%		+/- 60.6039 µg/mL	Stressed

8	n-Hexane (C6)		1,002.0	µg/mL	+/-	5.8803	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot 10188491)			+/-	60.4604	µg/mL	Unstressed
	Purity 99%				+/-	60.6039	µg/mL	Stressed
9	Diisopropyl ether (DIPE)		1,003.0	µg/mL	+/-	5.8862	µg/mL	Gravimetric
	CAS # 108-20-3.SEC	(Lot LL7TN-SH)			+/-	60.5207	µg/mL	Unstressed
	Purity 99%				+/-	60.6644	µg/mL	Stressed
10	Chloroprene (2-chloro-1,3-butadiene)		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 126-99-8 *	(Lot 191204JLM)			+/-	60.4302	µg/mL	Unstressed
	Purity 99%				+/-	60.5737	µg/mL	Stressed
11	Ethyl-tert-butyl ether (ETBE)		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 637-92-3.SEC	(Lot MHBJG-QK)			+/-	60.4000	µg/mL	Unstressed
	Purity 99%				+/-	60.5434	µg/mL	Stressed
12	Cyclohexane		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	60.4302	µg/mL	Unstressed
	Purity 99%				+/-	60.5737	µg/mL	Stressed
13	tert-Amyl methyl ether (TAME)		1,006.0	µg/mL	+/-	5.9038	µg/mL	Gravimetric
	CAS # 994-05-8.SEC	(Lot 8471400)			+/-	60.7017	µg/mL	Unstressed
	Purity 99%				+/-	60.8458	µg/mL	Stressed
14	n-Heptane (C7)		1,006.0	µg/mL	+/-	5.9038	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot OGM01)			+/-	60.7017	µg/mL	Unstressed
	Purity 99%				+/-	60.8458	µg/mL	Stressed
15	tert-Amyl ethyl ether (TAEE)		1,006.0	µg/mL	+/-	5.9038	µg/mL	Gravimetric
	CAS # 919-94-8.SEC	(Lot 6455100)			+/-	60.7017	µg/mL	Unstressed
	Purity 99%				+/-	60.8458	µg/mL	Stressed
16	Methyl methacrylate		1,006.0	µg/mL	+/-	5.9038	µg/mL	Gravimetric
	CAS # 80-62-6.SEC	(Lot G01X021)			+/-	60.7017	µg/mL	Unstressed
	Purity 99%				+/-	60.8458	µg/mL	Stressed
17	Ethyl methacrylate		1,004.5	µg/mL	+/-	5.8950	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot MLWYK-LS)			+/-	60.6112	µg/mL	Unstressed
	Purity 99%				+/-	60.7551	µg/mL	Stressed
18	Benzyl chloride		1,003.5	µg/mL	+/-	5.8891	µg/mL	Gravimetric
	CAS # 100-44-7.SEC	(Lot H29N03)			+/-	60.5509	µg/mL	Unstressed
	Purity 99%				+/-	60.6946	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)

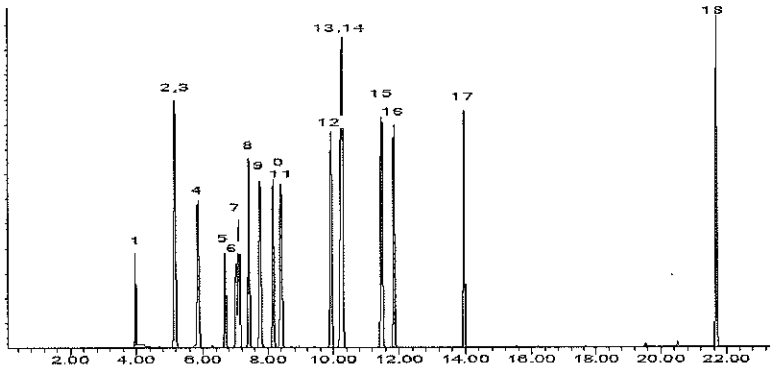
Carrier Gas:
helium-constant pressure 30 psi

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.

Matt Fragassi - Mix Technician

Date Mixed: 11-Mar-2020 **Balance:** 1128342314

Feng-Yun Lo – QC Analyst

Date Passed: 25-Mar-2020

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

Reagent

MSV_Q_Ketones_00010

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

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CERTIFIED REFERENCE MATERIAL

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569721.SEC **Lot No.:** A0167987

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

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

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

Expiration Date : January 31, 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	12,567.5 µg/mL	+/- 73.5855 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot S25F025)		+/- 758.3030 µg/mL	Unstressed
	Purity 99%		+/- 760.1031 µg/mL	Stressed
2	2-Butanone (MEK)	12,553.0 µg/mL	+/- 73.5006 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 757.4280 µg/mL	Unstressed
	Purity 99%		+/- 759.2261 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,563.5 µg/mL	+/- 73.5621 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 758.0616 µg/mL	Unstressed
	Purity 99%		+/- 759.8611 µg/mL	Stressed
4	2-Hexanone	12,527.8 µg/mL	+/- 73.3532 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 755.9093 µg/mL	Unstressed
	Purity 98%		+/- 757.7037 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)

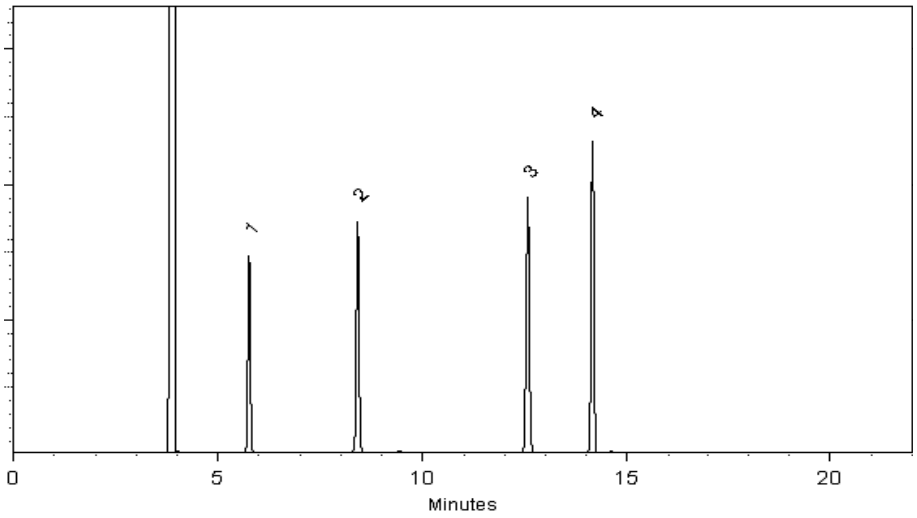
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Cory Meyer - Operations Tech I

Date Mixed: 11-Jan-2021 **Balance:** 1127510105

Marlina Cowan - Operations Tech I

Date Passed: 14-Jan-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:

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Handling Notes:

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Reagent

MSV_Q_Ketones_00011

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CERTIFIED REFERENCE MATERIAL

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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. : 569721.SEC **Lot No.:** A0167987

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

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

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

Expiration Date : January 31, 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	12,567.5 µg/mL	+/- 73.5855 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot S25F025)		+/- 758.3030 µg/mL	Unstressed
	Purity 99%		+/- 760.1031 µg/mL	Stressed
2	2-Butanone (MEK)	12,553.0 µg/mL	+/- 73.5006 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 757.4280 µg/mL	Unstressed
	Purity 99%		+/- 759.2261 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,563.5 µg/mL	+/- 73.5621 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 758.0616 µg/mL	Unstressed
	Purity 99%		+/- 759.8611 µg/mL	Stressed
4	2-Hexanone	12,527.8 µg/mL	+/- 73.3532 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 755.9093 µg/mL	Unstressed
	Purity 98%		+/- 757.7037 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)

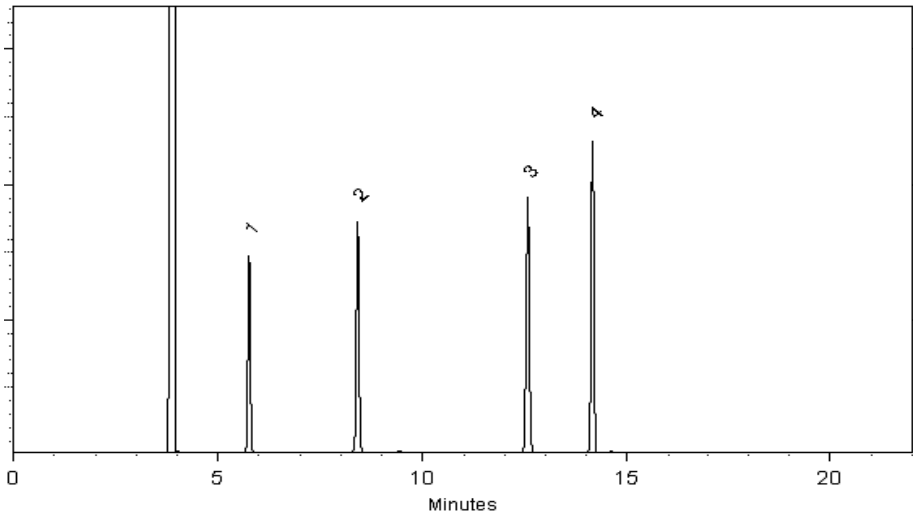
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Cory Meyer - Operations Tech I

Date Mixed: 11-Jan-2021 **Balance:** 1127510105

Marlina Cowan - Operations Tech I

Date Passed: 14-Jan-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.

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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)

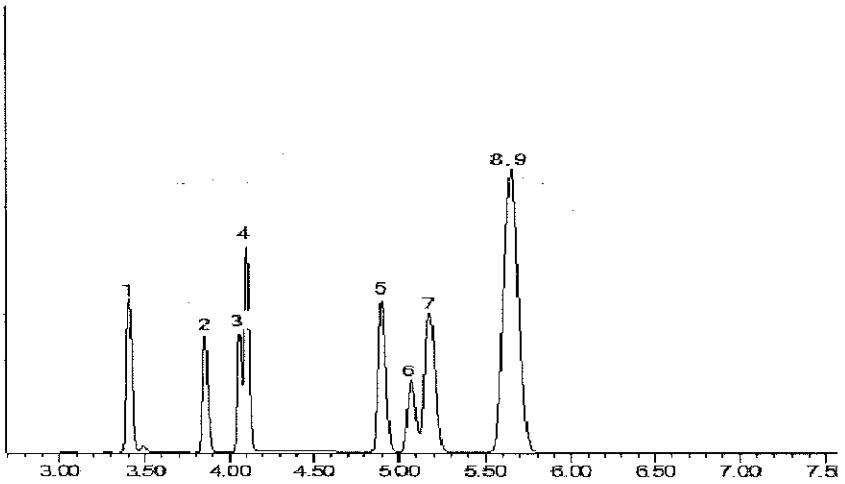
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.

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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577488.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)	2,014.7 µg/mL	+/- 21.3347	µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 26871)		+/- 114.3626	µg/mL	Unstressed
	Purity 99%		+/- 116.9742	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,018.4 µg/mL	+/- 22.6573	µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 114.8157	µg/mL	Unstressed
	Purity 99%		+/- 117.4265	µg/mL	Stressed
3	Vinyl chloride	2,011.6 µg/mL	+/- 18.1502	µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 113.6387	µg/mL	Unstressed
	Purity 99%		+/- 116.2584	µg/mL	Stressed
4	1,3-Butadiene	2,020.9 µg/mL	+/- 15.6985	µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 26996)		+/- 113.7849	µg/mL	Unstressed
	Purity 99%		+/- 116.4253	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,014.3 µg/mL	+/- 52.5641	µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot 00017022)		+/- 124.0186	µg/mL	Unstressed
	Purity 99%		+/- 126.4297	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,009.7 µg/mL	+/- 28.6335	µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/- 115.6738	µg/mL	Unstressed
	Purity 99%		+/- 118.2437	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 11.7371	µg/mL	Gravimetric
	CAS # 75-43-4 * (Lot 10930400)		+/- 112.1494	µg/mL	Unstressed
	Purity 99%		+/- 114.7730	µg/mL	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)

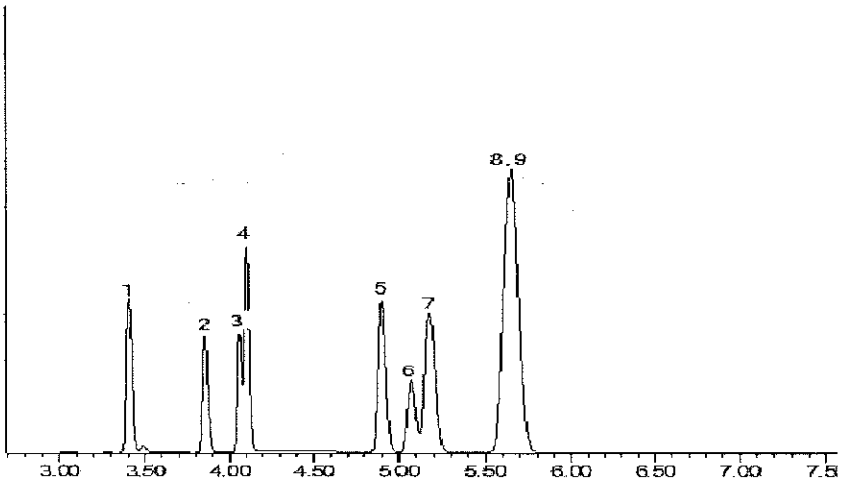
Carrier Gas:
helium-constant flow 2.0 mL/min.

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:

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

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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.

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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. : 558268.SEC **Lot No.:** A0158906

Description : Custom QCS #6 Standard

Custom QCS #6 Standard 1,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : September 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Methyl acetate		1,005.3 µg/mL	+/- 5.9714 µg/mL	Gravimetric
	CAS # 79-20-9.SEC	(Lot 6WOXM-KD)		+/- 60.6685 µg/mL	Unstressed
	Purity 99%			+/- 60.8125 µg/mL	Stressed
2	Allyl chloride (3-chloropropene)		1,001.3 µg/mL	+/- 5.9476 µg/mL	Gravimetric
	CAS # 107-05-1.SEC	(Lot H3HGC)		+/- 60.4271 µg/mL	Unstressed
	Purity 99%			+/- 60.5705 µg/mL	Stressed
3	Bromochloromethane		1,002.0 µg/mL	+/- 5.9516 µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 8529200)		+/- 60.4674 µg/mL	Unstressed
	Purity 99%			+/- 60.6109 µg/mL	Stressed
4	Methylcyclohexane		1,004.7 µg/mL	+/- 5.9674 µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot 24MSD-CD)		+/- 60.6283 µg/mL	Unstressed
	Purity 99%			+/- 60.7722 µg/mL	Stressed
5	Pentachloroethane		1,004.7 µg/mL	+/- 5.9674 µg/mL	Gravimetric
	CAS # 76-01-7.SEC	(Lot 8170200)		+/- 60.6283 µg/mL	Unstressed
	Purity 99%			+/- 60.7722 µg/mL	Stressed
6	1,2,3-Trimethylbenzene		1,004.6 µg/mL	+/- 5.9673 µg/mL	Gravimetric
	CAS # 526-73-8.SEC	(Lot 7110200)		+/- 60.6267 µg/mL	Unstressed
	Purity 92%			+/- 60.7706 µg/mL	Stressed
7	1,3-Diethylbenzene		1,006.0 µg/mL	+/- 5.9753 µg/mL	Gravimetric
	CAS # 141-93-5.SEC	(Lot 113566-1)		+/- 60.7087 µg/mL	Unstressed
	Purity 99%			+/- 60.8528 µg/mL	Stressed

8	1,4-Diethylbenzene		1,006.1 µg/mL	+/-	5.9761	µg/mL	Gravimetric
	CAS # 105-05-5.SEC	(Lot FBQ02)		+/-	60.7168	µg/mL	Unstressed
	Purity 98%			+/-	60.8609	µg/mL	Stressed
9	1,2-Diethylbenzene		1,008.7 µg/mL	+/-	5.9912	µg/mL	Gravimetric
	CAS # 135-01-3.SEC	(Lot BCBF3667V)		+/-	60.8697	µg/mL	Unstressed
	Purity 99%			+/-	61.0141	µg/mL	Stressed
10	2-Methylnaphthalene		1,006.0 µg/mL	+/-	5.9753	µg/mL	Gravimetric
	CAS # 91-57-6.SEC	(Lot 76023-1)		+/-	60.7087	µg/mL	Unstressed
	Purity 99%			+/-	60.8528	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)

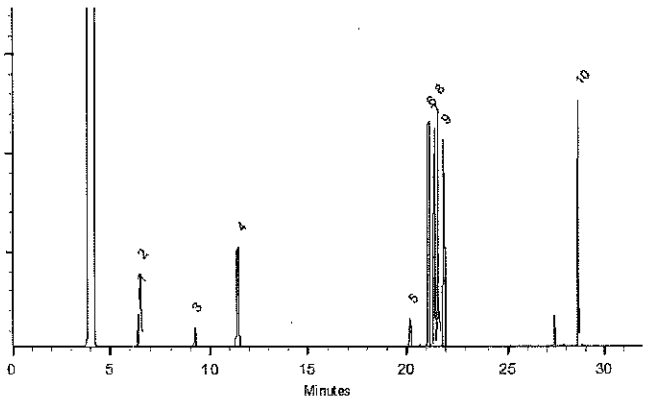
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Dalton Stover - Operations Technician I

Date Mixed: 17-Mar-2020 **Balance:** 1128342314

Feng-Yun Lo - QC Analyst

Date Passed: 20-Mar-2020

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

Reagent

MSV_V#1B_00146

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

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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. : 569936-1 **Lot No.:** A0158586

Description : Custom Revised V #1B Standard

Custom Revised V #1B Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-dichloroethene **CAS #** 75-35-4 (Lot SHBK2437) **Purity** 99%	5,011.4 µg/mL	+/- 31.9644 µg/mL +/- 281.2901 µg/mL +/- 287.8577 µg/mL	Gravimetric Unstressed Stressed
2	Methylene chloride (dichloromethane) **CAS #** 75-09-2 (Lot SHBL3107) **Purity** 99%	5,004.6 µg/mL	+/- 31.9213 µg/mL +/- 280.9112 µg/mL +/- 287.4700 µg/mL	Gravimetric Unstressed Stressed
3	trans-1,2-Dichloroethene **CAS #** 156-60-5 (Lot MKBH9850V) **Purity** 99%	5,017.5 µg/mL	+/- 32.0035 µg/mL +/- 281.6339 µg/mL +/- 288.2096 µg/mL	Gravimetric Unstressed Stressed
4	1,1-Dichloroethane **CAS #** 75-34-3 (Lot 580900) **Purity** 99%	5,020.4 µg/mL	+/- 32.0218 µg/mL +/- 281.7953 µg/mL +/- 288.3747 µg/mL	Gravimetric Unstressed Stressed
5	2,2-Dichloropropane **CAS #** 594-20-7 (Lot BCBT5124) **Purity** 99%	5,050.0 µg/mL	+/- 32.0202 µg/mL +/- 283.4366 µg/mL +/- 290.0553 µg/mL	Gravimetric Unstressed Stressed
6	cis-1,2-Dichloroethene **CAS #** 156-59-2 (Lot MKBX5945V) **Purity** 99%	5,046.5 µg/mL	+/- 31.9980 µg/mL +/- 283.2401 µg/mL +/- 289.8543 µg/mL	Gravimetric Unstressed Stressed
7	chloroform **CAS #** 67-66-3 (Lot SHBJ9076) **Purity** 99%	5,034.3 µg/mL	+/- 32.1103 µg/mL +/- 282.5741 µg/mL +/- 289.1717 µg/mL	Gravimetric Unstressed Stressed

8	1,1,1-trichloroethane		5,001.3	µg/mL	+/-	31.9002	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	280.7250	µg/mL	Unstressed
	Purity 98%				+/-	287.2795	µg/mL	Stressed
9	1,1-Dichloropropene		5,048.9	µg/mL	+/-	32.0131	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 170301JLM)			+/-	283.3734	µg/mL	Unstressed
	Purity 99%				+/-	289.9907	µg/mL	Stressed
10	carbon tetrachloride		5,022.9	µg/mL	+/-	32.0378	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBG8938V)			+/-	281.9356	µg/mL	Unstressed
	Purity 99%				+/-	288.5183	µg/mL	Stressed
11	1,2-Dichloroethane		5,007.9	µg/mL	+/-	31.9421	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot MKCH9948)			+/-	281.0937	µg/mL	Unstressed
	Purity 99%				+/-	287.6567	µg/mL	Stressed
12	Benzene		5,042.9	µg/mL	+/-	31.9750	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBG7317V)			+/-	283.0367	µg/mL	Unstressed
	Purity 99%				+/-	289.6461	µg/mL	Stressed
13	Trichloroethene		5,012.9	µg/mL	+/-	31.9740	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBJ4611)			+/-	281.3743	µg/mL	Unstressed
	Purity 99%				+/-	287.9439	µg/mL	Stressed
14	1,2-Dichloropropane		5,012.6	µg/mL	+/-	31.9724	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	281.3603	µg/mL	Unstressed
	Purity 99%				+/-	287.9295	µg/mL	Stressed
15	bromodichloromethane		5,039.1	µg/mL	+/-	32.1414	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCJ0238)			+/-	282.8477	µg/mL	Unstressed
	Purity 99%				+/-	289.4517	µg/mL	Stressed
16	Dibromomethane		5,047.3	µg/mL	+/-	32.0027	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10201030)			+/-	283.2822	µg/mL	Unstressed
	Purity 99%				+/-	289.8973	µg/mL	Stressed
17	cis-1,3-Dichloropropene		5,015.1	µg/mL	+/-	31.9883	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot 200107JLM)			+/-	281.5006	µg/mL	Unstressed
	Purity 99%				+/-	288.0731	µg/mL	Stressed
18	Toluene		5,031.9	µg/mL	+/-	31.9053	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot SHBH9895)			+/-	282.4193	µg/mL	Unstressed
	Purity 99%				+/-	289.0143	µg/mL	Stressed
19	trans-1,3-Dichloropropene		5,003.8	µg/mL	+/-	31.9158	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot 19420164-D1219)			+/-	280.8621	µg/mL	Unstressed
	Purity 99%				+/-	287.4198	µg/mL	Stressed
20	1,1,2-Trichloroethane		5,015.4	µg/mL	+/-	31.9899	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	281.5146	µg/mL	Unstressed
	Purity 99%				+/-	288.0875	µg/mL	Stressed
21	1,3-Dichloropropane		5,042.4	µg/mL	+/-	31.9718	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBG2162V)			+/-	283.0086	µg/mL	Unstressed
	Purity 99%				+/-	289.6173	µg/mL	Stressed
22	Tetrachloroethene		5,014.3	µg/mL	+/-	31.9827	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBJ7422)			+/-	281.4515	µg/mL	Unstressed
	Purity 99%				+/-	288.0229	µg/mL	Stressed
23	dibromochloromethane		5,016.1	µg/mL	+/-	31.9947	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCK6472)			+/-	281.5567	µg/mL	Unstressed
	Purity 99%				+/-	288.1306	µg/mL	Stressed

24	1,2-Dibromoethane (EDB) **CAS #** 106-93-4 **Purity** 99%	(Lot BCBP2268V)	5,037.4	µg/mL	+/- 31.9401 +/- 282.7280 +/- 289.3302	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	1-Chlorohexane **CAS #** 544-10-5 **Purity** 98%	(Lot BCBS3368V)	5,010.7	µg/mL	+/- 29.3390 +/- 280.9687 +/- 287.5420	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Chlorobenzene **CAS #** 108-90-7 **Purity** 99%	(Lot SHBJ0839)	5,009.0	µg/mL	+/- 31.9493 +/- 281.1568 +/- 287.7213	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6 **Purity** 99%	(Lot MKBS3769V)	5,038.6	µg/mL	+/- 31.9481 +/- 282.7981 +/- 289.4020	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Ethylbenzene **CAS #** 100-41-4 **Purity** 99%	(Lot SHBJ3183)	5,029.3	µg/mL	+/- 31.8886 +/- 282.2719 +/- 288.8635	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	m-Xylene **CAS #** 108-38-3 **Purity** 99%	(Lot SHBH8323)	5,038.4	µg/mL	+/- 31.9465 +/- 282.7841 +/- 289.3876	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	p-Xylene **CAS #** 106-42-3 **Purity** 99%	(Lot SHBJ0052)	5,038.0	µg/mL	+/- 31.9441 +/- 282.7630 +/- 289.3661	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	o-Xylene **CAS #** 95-47-6 **Purity** 99%	(Lot SHBH3432V)	5,046.4	µg/mL	+/- 31.9972 +/- 283.2331 +/- 289.8471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Styrene **CAS #** 100-42-5 **Purity** 99%	(Lot MKBV4061V)	5,047.0	µg/mL	+/- 32.0012 +/- 283.2682 +/- 289.8830	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	Isopropylbenzene (cumene) **CAS #** 98-82-8 **Purity** 99%	(Lot 10185056)	5,035.3	µg/mL	+/- 31.9267 +/- 282.6087 +/- 289.2081	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	bromoform **CAS #** 75-25-2 **Purity** 99%	(Lot SHBJ4835)	5,013.0	µg/mL	+/- 31.9748 +/- 281.3813 +/- 287.9511	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5 **Purity** 99%	(Lot CFA4D)	5,016.0	µg/mL	+/- 31.9939 +/- 281.5497 +/- 288.1234	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	1,2,3-Trichloropropane **CAS #** 96-18-4 **Purity** 99%	(Lot BCBH8722V)	5,033.4	µg/mL	+/- 31.9148 +/- 282.5035 +/- 289.1004	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	n-Propylbenzene **CAS #** 103-65-1 **Purity** 99%	(Lot MKBJ0332V)	5,032.4	µg/mL	+/- 31.9084 +/- 282.4473 +/- 289.0430	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot WXBC5147V)	5,035.5	µg/mL	+/- 31.9282 +/- 282.6227 +/- 289.2225	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBS7648V)	5,029.8	µg/mL	+/- 31.8918 +/- 282.3000 +/- 288.8922	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBW5554V)	5,037.5	µg/mL	+/- 31.9409 +/- 282.7350 +/- 289.3373	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBL7753V)	5,039.1	µg/mL	+/- 31.9512 +/- 282.8262 +/- 289.4307	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot STBD6954V)	5,049.8	µg/mL	+/- 32.0186 +/- 283.4225 +/- 290.0409	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 98%	(Lot MKBJ6229V)	5,046.8	µg/mL	+/- 31.9996 +/- 283.2544 +/- 289.8689	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBR9260V)	5,042.8	µg/mL	+/- 31.9742 +/- 283.0296 +/- 289.6389	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBV3556V)	5,038.4	µg/mL	+/- 31.9465 +/- 282.7841 +/- 289.3876	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBQ7100V)	5,017.6	µg/mL	+/- 32.0043 +/- 281.6409 +/- 288.2167	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS4401V)	5,023.8	µg/mL	+/- 32.0433 +/- 281.9847 +/- 288.5686	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09804AE)	5,024.8	µg/mL	+/- 31.8601 +/- 282.0194 +/- 288.6050	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBG3111V)	5,024.5	µg/mL	+/- 32.0481 +/- 282.0268 +/- 288.6117	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	5,036.4	µg/mL	+/- 31.9338 +/- 282.6718 +/- 289.2727	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	1,3,5-Trichlorobenzene **CAS #** 108-70-3 **Purity** 99%	(Lot 11319AS)	5,034.0	µg/mL	+/- 29.4752 +/- 282.2729 +/- 288.8768	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBJ0905)	5,036.5	µg/mL	+/- 31.9346 +/- 282.6789 +/- 289.2799	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 99%	(Lot J31X013)	5,033.6	µg/mL	+/- 31.9164 +/- 282.5175 +/- 289.1148	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBW2603V)	5,033.6	µg/mL	+/- 31.9164 +/- 282.5175 +/- 289.1148	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	1,2,3-Trichlorobenzene **CAS #** 87-61-6 **Purity** 99%	(Lot MKBS4859V)	5,016.0	µg/mL	+/- 31.8046 +/- 281.5283 +/- 288.1024	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

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

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

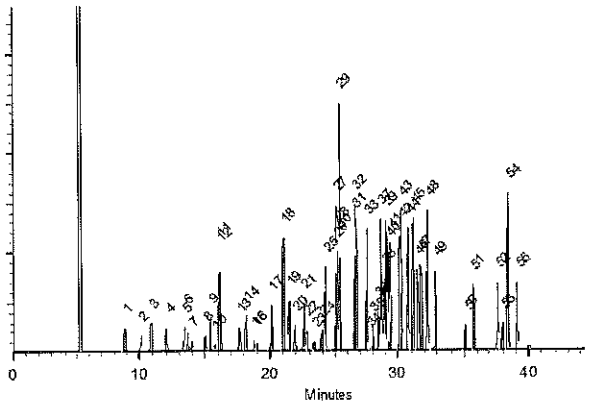
Carrier Gas:
hydrogen-constant pressure 8.0 psi.

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 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.

Cydnei L. Crust - Mix Technician

Date Mixed: 09-Mar-2020 **Balance:** B251644995

Feng-Yun Lo - QC Analyst

Date Passed: 11-Mar-2020

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

Reagent

MSV_V#2B_00197

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

www.restek.com

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 56734 **Lot No.:** A0159694

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, 2022 **Storage:** 0°C or colder

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%	25,019.2 µg/mL	+/- 146.4929 µg/mL
2	tert-Butanol (TBA)	75-65-0	99%	25,022.4 µg/mL	+/- 146.5117 µg/mL
3	Propionitrile	107-12-0	99%	25,020.0 µg/mL	+/- 146.4976 µg/mL
4	Methacrylonitrile	126-98-7	99%	12,533.6 µg/mL	+/- 73.3870 µg/mL
5	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	62,702.0 µg/mL	+/- 367.1151 µg/mL
6	1-Butanol	71-36-3	99%	125,150.0 µg/mL	+/- 732.7430 µg/mL
7	1,4-Dioxane	123-91-1	99%	62,550.0 µg/mL	+/- 366.2251 µg/mL
8	trans-1,4-dichloro-2-butene	110-57-6	95%	12,549.5 µg/mL	+/- 73.4801 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)

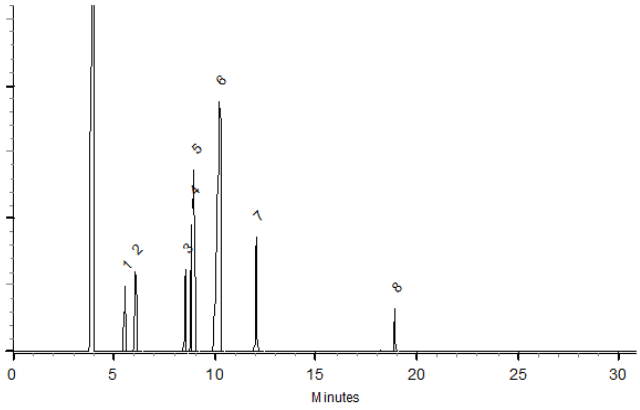
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Clara Windle - Operations Technician I

Date Mixed: 07-Apr-2020 **Balance:** B251644995

Fang-Yun Lo - QC Analyst

Date Passed: 10-Apr-2020

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_00198

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

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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.:** A0159694

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, 2022 **Storage:** 0°C or colder

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%	25,019.2 µg/mL	+/- 146.4929 µg/mL
2	tert-Butanol (TBA)	75-65-0	99%	25,022.4 µg/mL	+/- 146.5117 µg/mL
3	Propionitrile	107-12-0	99%	25,020.0 µg/mL	+/- 146.4976 µg/mL
4	Methacrylonitrile	126-98-7	99%	12,533.6 µg/mL	+/- 73.3870 µg/mL
5	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	62,702.0 µg/mL	+/- 367.1151 µg/mL
6	1-Butanol	71-36-3	99%	125,150.0 µg/mL	+/- 732.7430 µg/mL
7	1,4-Dioxane	123-91-1	99%	62,550.0 µg/mL	+/- 366.2251 µg/mL
8	trans-1,4-dichloro-2-butene	110-57-6	95%	12,549.5 µg/mL	+/- 73.4801 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)

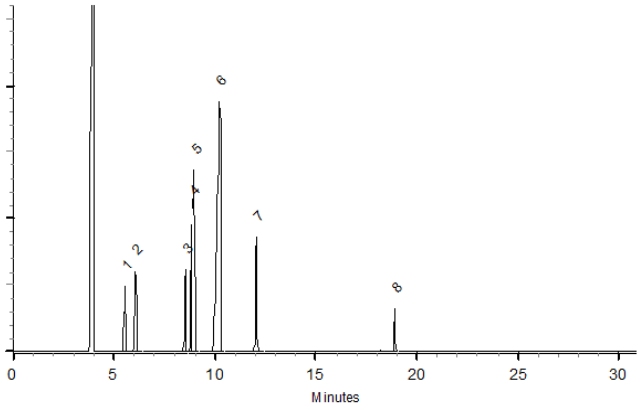
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Clara Windle - Operations Technician I

Date Mixed: 07-Apr-2020 **Balance:** B251644995

Fang-Yun Lo - QC Analyst

Date Passed: 10-Apr-2020

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_00223

110 Benner Circle
Bellefonte, PA 16823-8812
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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.:** A0159694

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, 2022 **Storage:** 0°C or colder

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%	25,019.2 µg/mL	+/- 146.4929 µg/mL
2	tert-Butanol (TBA)	75-65-0	99%	25,022.4 µg/mL	+/- 146.5117 µg/mL
3	Propionitrile	107-12-0	99%	25,020.0 µg/mL	+/- 146.4976 µg/mL
4	Methacrylonitrile	126-98-7	99%	12,533.6 µg/mL	+/- 73.3870 µg/mL
5	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	62,702.0 µg/mL	+/- 367.1151 µg/mL
6	1-Butanol	71-36-3	99%	125,150.0 µg/mL	+/- 732.7430 µg/mL
7	1,4-Dioxane	123-91-1	99%	62,550.0 µg/mL	+/- 366.2251 µg/mL
8	trans-1,4-dichloro-2-butene	110-57-6	95%	12,549.5 µg/mL	+/- 73.4801 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)

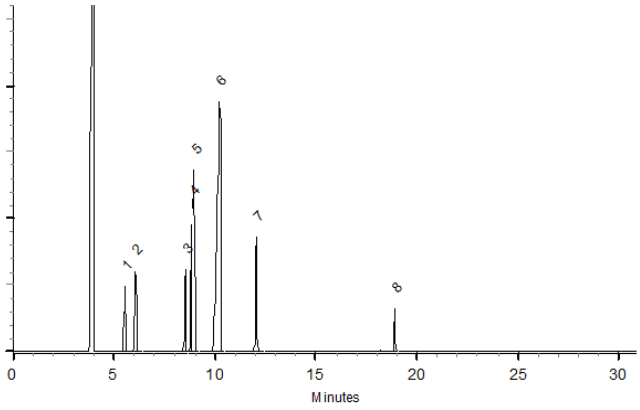
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Clara Windle - Operations Technician I

Date Mixed: 07-Apr-2020 **Balance:** B251644995

Fang-Yun Lo - QC Analyst

Date Passed: 10-Apr-2020

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#3B_00085

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

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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. : 56736 **Lot No.:** A0158677

Description : Custom V # 3B Standard

Custom V #3B Standard 12,500-25,000µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

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

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone		25,001.0 µg/mL	+/- 146.3864 µg/mL	Gravimetric
	CAS # 67-64-1	(Lot MKCK2598)		+/- 1,236.8670 µg/mL	Unstressed
	Purity 99%			+/- 1,267.6168 µg/mL	Stressed
2	Acrylonitrile		12,511.0 µg/mL	+/- 73.2547 µg/mL	Gravimetric
	CAS # 107-13-1	(Lot A0387097)		+/- 618.9529 µg/mL	Unstressed
	Purity 99%			+/- 634.3408 µg/mL	Stressed
3	2-Butanone (MEK)		25,007.0 µg/mL	+/- 146.4215 µg/mL	Gravimetric
	CAS # 78-93-3	(Lot SHBK9603)		+/- 1,237.1638 µg/mL	Unstressed
	Purity 99%			+/- 1,267.9210 µg/mL	Stressed
4	Tetrahydrofuran		25,049.0 µg/mL	+/- 146.6674 µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBK8926)		+/- 1,239.2417 µg/mL	Unstressed
	Purity 99%			+/- 1,270.0505 µg/mL	Stressed
5	2-Nitropropane		24,758.3 µg/mL	+/- 144.9652 µg/mL	Gravimetric
	CAS # 79-46-9	(Lot BCCB9352)		+/- 1,224.8589 µg/mL	Unstressed
	Purity 97%			+/- 1,255.3102 µg/mL	Stressed
6	4-Methyl-2-pentanone (MIBK)		25,014.0 µg/mL	+/- 146.4625 µg/mL	Gravimetric
	CAS # 108-10-1	(Lot SHBL5515)		+/- 1,237.5101 µg/mL	Unstressed
	Purity 99%			+/- 1,268.2759 µg/mL	Stressed
7	2-Hexanone		25,016.0 µg/mL	+/- 146.4742 µg/mL	Gravimetric
	CAS # 591-78-6	(Lot MKCL1599)		+/- 1,237.6091 µg/mL	Unstressed
	Purity 99%			+/- 1,268.3773 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)

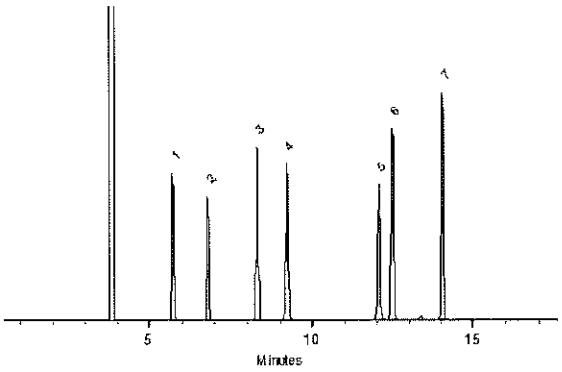
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Kylie Struble - Operations Technician I

Date Mixed: 10-Mar-2020 **Balance:** B251644995

Feng-Yen Lo - QC Analyst

Date Passed: 12-Mar-2020

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

Reagent

MSV_V#4C_00126

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Bellefonte, PA 16823-8812
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Fax: (814)353-1309

www.restek.com

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. : 572312 **Lot No.:** A0158660

Description : Custom V #4C (Rev 3) Standard

Custom V #4C (Rev 3) Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : March 31, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,3-Butadiene	5,002.1 µg/mL	+/- 39.8717 µg/mL	Gravimetric
	CAS # 106-99-0 (Lot SHBK2299)		+/- 303.0271 µg/mL	Unstressed
	Purity 99%		+/- 303.7407 µg/mL	Stressed
2	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	5,001.4 µg/mL	+/- 47.3932 µg/mL	Gravimetric
	CAS # 354-23-4 (Lot Q9B-64)		+/- 304.0702 µg/mL	Unstressed
	Purity 99%		+/- 304.7812 µg/mL	Stressed
3	n-Pentane (C5)	5,025.0 µg/mL	+/- 29.4225 µg/mL	Gravimetric
	CAS # 109-66-0 (Lot SHBL0400)		+/- 303.2005 µg/mL	Unstressed
	Purity 99%		+/- 303.9203 µg/mL	Stressed
4	1,1,2-Trichlorotrifluoroethane (CFC-113)	5,024.0 µg/mL	+/- 29.4166 µg/mL	Gravimetric
	CAS # 76-13-1 (Lot 00016133)		+/- 303.1402 µg/mL	Unstressed
	Purity 99%		+/- 303.8598 µg/mL	Stressed
5	Iodomethane (methyl iodide)	5,035.0 µg/mL	+/- 29.4810 µg/mL	Gravimetric
	CAS # 74-88-4 (Lot D4406-0122JM)		+/- 303.8039 µg/mL	Unstressed
	Purity 99%		+/- 304.5251 µg/mL	Stressed
6	Carbon disulfide	5,046.0 µg/mL	+/- 29.5454 µg/mL	Gravimetric
	CAS # 75-15-0 (Lot U22D706)		+/- 304.4676 µg/mL	Unstressed
	Purity 99%		+/- 305.1904 µg/mL	Stressed
7	Methyl-tert-butyl ether (MTBE)	5,025.0 µg/mL	+/- 29.4225 µg/mL	Gravimetric
	CAS # 1634-04-4 (Lot SHBK4806)		+/- 303.2005 µg/mL	Unstressed
	Purity 99%		+/- 303.9203 µg/mL	Stressed

8	n-Hexane (C6)		5,025.5	µg/mL	+/-	29.4254	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBL0924)			+/-	303.2307	µg/mL	Unstressed
	Purity 99%				+/-	303.9505	µg/mL	Stressed
9	Diisopropyl ether (DIPE)		5,015.0	µg/mL	+/-	29.3639	µg/mL	Gravimetric
	CAS # 108-20-3	(Lot SHBH1927V)			+/-	302.5971	µg/mL	Unstressed
	Purity 99%				+/-	303.3154	µg/mL	Stressed
10	Chloroprene (2-chloro-1,3-butadiene)		5,046.5	µg/mL	+/-	29.5484	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 191204JLM)			+/-	304.4978	µg/mL	Unstressed
	Purity 99%				+/-	305.2206	µg/mL	Stressed
11	Ethyl-tert-butyl ether (ETBE)		5,026.5	µg/mL	+/-	29.4313	µg/mL	Gravimetric
	CAS # 637-92-3	(Lot MKCJ3589)			+/-	303.2910	µg/mL	Unstressed
	Purity 99%				+/-	304.0110	µg/mL	Stressed
12	Cyclohexane		5,028.5	µg/mL	+/-	29.4430	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKCF5831)			+/-	303.4117	µg/mL	Unstressed
	Purity 99%				+/-	304.1319	µg/mL	Stressed
13	tert-Amyl methyl ether (TAME)		5,021.0	µg/mL	+/-	29.3991	µg/mL	Gravimetric
	CAS # 994-05-8	(Lot HMBG6382V)			+/-	302.9592	µg/mL	Unstressed
	Purity 99%				+/-	303.6783	µg/mL	Stressed
14	n-Heptane (C7)		5,044.1	µg/mL	+/-	29.5341	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SHBK8626)			+/-	304.3506	µg/mL	Unstressed
	Purity 98%				+/-	305.0730	µg/mL	Stressed
15	tert-Amyl ethyl ether (TAEE)		5,018.5	µg/mL	+/-	29.3844	µg/mL	Gravimetric
	CAS # 919-94-8	(Lot IKVYB)			+/-	302.8083	µg/mL	Unstressed
	Purity 99%				+/-	303.5271	µg/mL	Stressed
16	Methyl methacrylate		5,028.0	µg/mL	+/-	29.4400	µg/mL	Gravimetric
	CAS # 80-62-6	(Lot MKCG6589)			+/-	303.3815	µg/mL	Unstressed
	Purity 99%				+/-	304.1017	µg/mL	Stressed
17	Ethyl methacrylate		5,043.0	µg/mL	+/-	29.5279	µg/mL	Gravimetric
	CAS # 97-63-2	(Lot SHBF9649V)			+/-	304.2866	µg/mL	Unstressed
	Purity 99%				+/-	305.0089	µg/mL	Stressed
18	Benzyl chloride		5,019.5	µg/mL	+/-	29.3903	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBH2102V)			+/-	302.8686	µg/mL	Unstressed
	Purity 99%				+/-	303.5876	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)

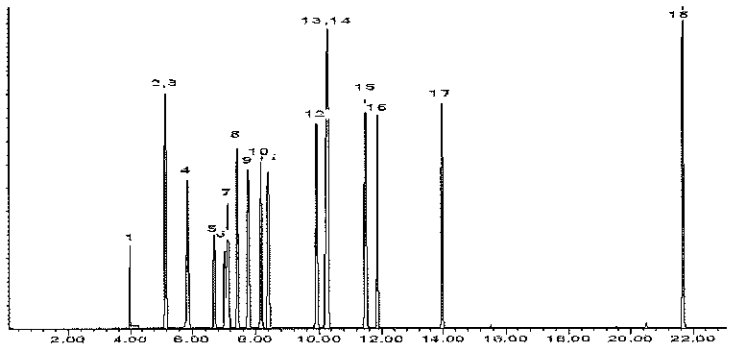
Carrier Gas:
helium-constant pressure 30 psi

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.

Tom Suckar - Mix Technician

Date Mixed: 10-Mar-2020 **Balance:** B707717271

Fang-Yun Lo - QC Analyst

Date Passed: 25-Mar-2020

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

Reagent

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 558268 **Lot No.:** A0158625

Description : Custom CS#6 Standard

Custom CS#6 Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : September 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Methyl acetate		5,039.0 µg/mL	+/- 29.5717	µg/mL	Gravimetric
	CAS # 79-20-9	(Lot SHBK5436)		+/- 304.0518	µg/mL	Unstressed
	Purity 99%			+/- 304.7735	µg/mL	Stressed
2	Allyl chloride (3-chloropropene)		5,046.0 µg/mL	+/- 29.6128	µg/mL	Gravimetric
	CAS # 107-05-1	(Lot 191118KJ)		+/- 304.4742	µg/mL	Unstressed
	Purity 99%			+/- 305.1969	µg/mL	Stressed
3	Bromochloromethane		5,040.1 µg/mL	+/- 29.5784	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00008541)		+/- 304.1206	µg/mL	Unstressed
	Purity 98%			+/- 304.8425	µg/mL	Stressed
4	Methylcyclohexane		5,041.0 µg/mL	+/- 29.5834	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBJ0457)		+/- 304.1725	µg/mL	Unstressed
	Purity 99%			+/- 304.8945	µg/mL	Stressed
5	Pentachloroethane		5,035.0 µg/mL	+/- 29.5482	µg/mL	Gravimetric
	CAS # 76-01-7	(Lot 8866000)		+/- 303.8104	µg/mL	Unstressed
	Purity 99%			+/- 304.5316	µg/mL	Stressed
6	1,2,3-Trimethylbenzene		5,012.0 µg/mL	+/- 29.4132	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 8766.05-14)		+/- 302.4226	µg/mL	Unstressed
	Purity 99%			+/- 303.1405	µg/mL	Stressed
7	1,3-Diethylbenzene		5,041.1 µg/mL	+/- 29.5841	µg/mL	Gravimetric
	CAS # 141-93-5	(Lot BCBT8967)		+/- 304.1797	µg/mL	Unstressed
	Purity 98%			+/- 304.9017	µg/mL	Stressed

8	1,4-Diethylbenzene		5,035.2	µg/mL	+/- 29.5496	µg/mL	Gravimetric
	CAS # 105-05-5	(Lot RLHJK)			+/- 303.8249	µg/mL	Unstressed
	Purity 98%				+/- 304.5461	µg/mL	Stressed
9	1,2-Diethylbenzene		5,011.0	µg/mL	+/- 29.4074	µg/mL	Gravimetric
	CAS # 135-01-3	(Lot ECH2970181)			+/- 302.3623	µg/mL	Unstressed
	Purity 99%				+/- 303.0800	µg/mL	Stressed
10	2-Methylnaphthalene		5,023.7	µg/mL	+/- 29.4818	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot STBG8884)			+/- 303.1274	µg/mL	Unstressed
	Purity 96%				+/- 303.8469	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)

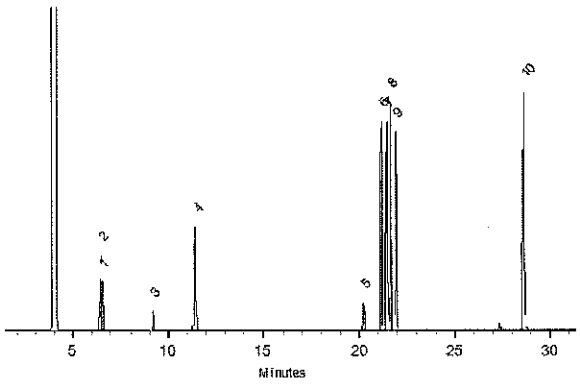
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Tom Suckar - Mix Technician

Date Mixed: 09-Mar-2020 **Balance:** B707717271

Feng-Yue Lu - QC Analyst

Date Passed: 12-Mar-2020

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

Reagent

MSV_V_2CLEVE_00007

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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. : 577492 **Lot No.:** A0171422

Description : Custom 2-CEVE Standard

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

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

Expiration Date : April 30, 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-Chloroethyl vinyl ether	5,010.5 µg/mL	+/- 29.3376 µg/mL	Gravimetric
	CAS # 110-75-8 (Lot MKBS6526V)		+/- 107.3316 µg/mL	Unstressed
	Purity 99%		+/- 110.4487 µg/mL	Stressed

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

Tech Tips:

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

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

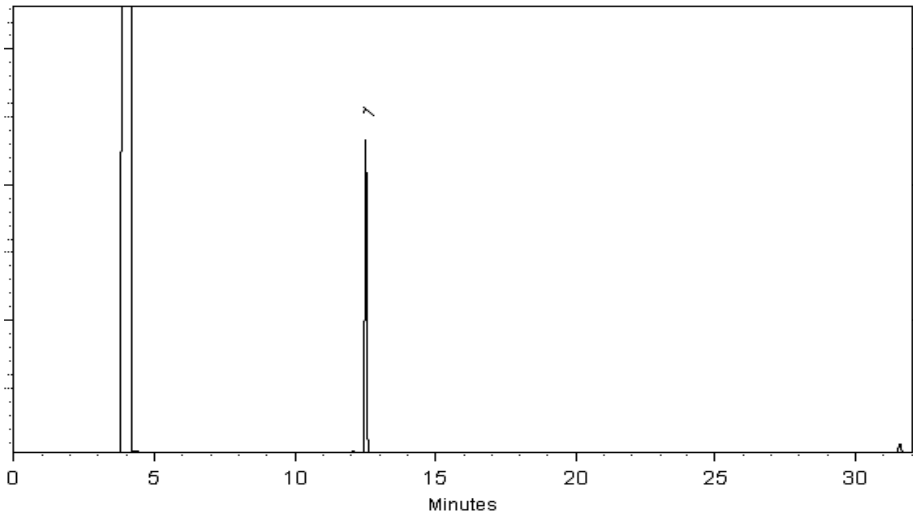
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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: 16-Apr-2021 **Balance:** 1128360905

Marlina Cowan - 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_V_Acetate_00030

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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. : 54590 **Lot No.:** A0165179

Description : Custom V Acetate Standard

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

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

Expiration Date : April 30, 2022 **Storage:** -20°C or colder

Handling: This product is photosensitive. **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	Vinyl acetate	2,012.0 µg/mL	+/- 11.9507 µg/mL	Gravimetric
	CAS # 108-05-4 (Lot RD200601)		+/- 121.4175 µg/mL	Unstressed
	Purity 99%		+/- 121.7056 µg/mL	Stressed
2	Ethyl acetate	2,010.0 µg/mL	+/- 11.9388 µg/mL	Gravimetric
	CAS # 141-78-6 (Lot SHBL1336)		+/- 121.2968 µg/mL	Unstressed
	Purity 99%		+/- 121.5847 µg/mL	Stressed
3	Isopropyl acetate	2,016.0 µg/mL	+/- 11.9744 µg/mL	Gravimetric
	CAS # 108-21-4 (Lot BCBZ4645)		+/- 121.6589 µg/mL	Unstressed
	Purity 99%		+/- 121.9476 µg/mL	Stressed
4	Propyl acetate	2,016.0 µg/mL	+/- 11.9744 µg/mL	Gravimetric
	CAS # 109-60-4 (Lot ZJZVG)		+/- 121.6589 µg/mL	Unstressed
	Purity 99%		+/- 121.9476 µg/mL	Stressed
5	Butyl acetate	2,016.0 µg/mL	+/- 11.9744 µg/mL	Gravimetric
	CAS # 123-86-4 (Lot SHBL9111)		+/- 121.6589 µg/mL	Unstressed
	Purity 99%		+/- 121.9476 µg/mL	Stressed

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

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

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

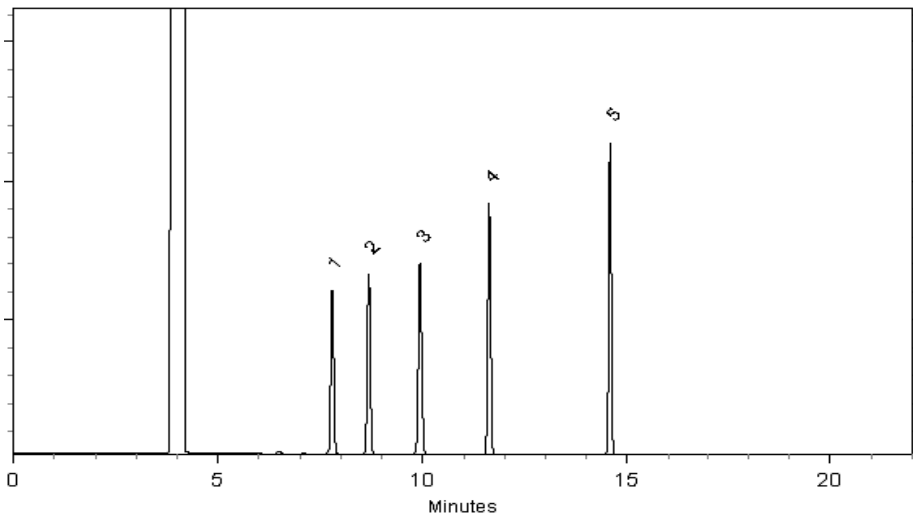
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Tom Suckar - Mix Technician

Date Mixed: 09-Oct-2020 **Balance:** B707717271

Marlina Cowan - Operations Tech I

Date Passed: 20-Oct-2020

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_Gas_00216

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 55669 **Lot No.:** A0159812

Description : Custom 502.2 "V" Gas Mix

Custom 502.2 "V" Gas Mix 2,000µg/mL, P&T Methanol, 1mL/ampul

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

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,005.1 µg/mL	+/- 16.8576 µg/mL	Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/- 113.0809 µg/mL	Unstressed
	Purity 99%		+/- 115.6966 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,003.5 µg/mL	+/- 19.3327 µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/- 113.3884 µg/mL	Unstressed
	Purity 99%		+/- 115.9929 µg/mL	Stressed
3	Vinyl chloride	2,001.1 µg/mL	+/- 18.1213 µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/- 113.0560 µg/mL	Unstressed
	Purity 99%		+/- 115.6619 µg/mL	Stressed
4	Bromomethane (methyl bromide)	1,998.8 µg/mL	+/- 17.7535 µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/- 112.8737 µg/mL	Unstressed
	Purity 99%		+/- 115.4779 µg/mL	Stressed
5	Chloroethane (ethyl chloride)	2,002.3 µg/mL	+/- 17.1357 µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/- 112.9711 µg/mL	Unstressed
	Purity 99%		+/- 115.5821 µg/mL	Stressed
6	Trichlorofluoromethane (CFC-11)	2,020.0 µg/mL	+/- 11.7716 µg/mL	Gravimetric
	CAS # 75-69-4 (Lot 25931)		+/- 113.2622 µg/mL	Unstressed
	Purity 99%		+/- 115.9123 µg/mL	Stressed

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

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

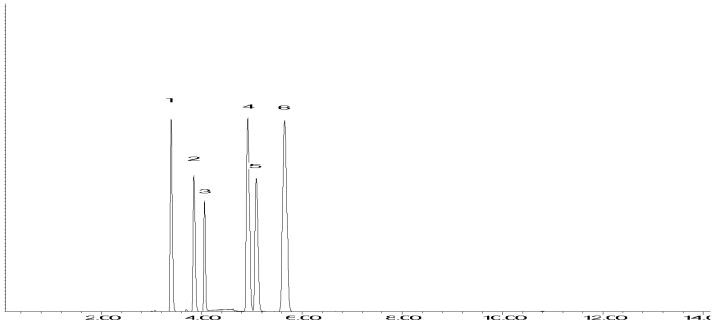
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Tom Suckar - Mix Technician

Date Mixed: 10-Apr-2020 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 06-May-2020

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

Reagent

MSV_V_Ketones_00005

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. : 569721 **Lot No.:** A0168313

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

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

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

Expiration Date : January 31, 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	12,516.4 µg/mL	+/- 73.2863 µg/mL	Gravimetric
	CAS # 67-64-1 (Lot SHBM6699)		+/- 755.2197 µg/mL	Unstressed
	Purity 99%		+/- 757.0124 µg/mL	Stressed
2	2-Butanone (MEK)	12,515.2 µg/mL	+/- 73.2792 µg/mL	Gravimetric
	CAS # 78-93-3 (Lot SHBL6194)		+/- 755.1473 µg/mL	Unstressed
	Purity 99%		+/- 756.9399 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,512.0 µg/mL	+/- 73.2605 µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBM2797)		+/- 754.9542 µg/mL	Unstressed
	Purity 99%		+/- 756.7463 µg/mL	Stressed
4	2-Hexanone	12,504.4 µg/mL	+/- 73.2160 µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKCL1599)		+/- 754.4956 µg/mL	Unstressed
	Purity 99%		+/- 756.2867 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)

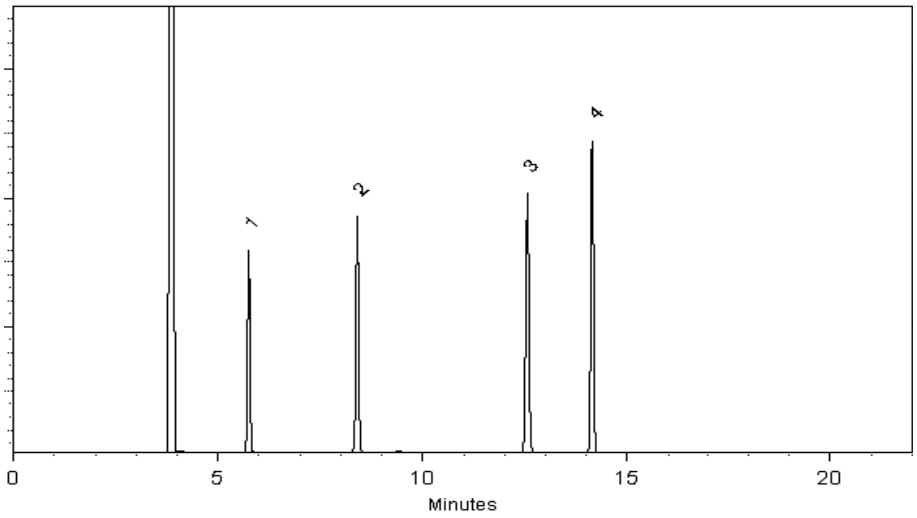
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Cathleen Soltis - Mix Technician

Date Mixed: 20-Jan-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 21-Jan-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_00007

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. : 569721 **Lot No.:** A0168313

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

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

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

Expiration Date : January 31, 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	12,516.4 µg/mL	+/- 73.2863 µg/mL	Gravimetric
	CAS # 67-64-1 (Lot SHBM6699)		+/- 755.2197 µg/mL	Unstressed
	Purity 99%		+/- 757.0124 µg/mL	Stressed
2	2-Butanone (MEK)	12,515.2 µg/mL	+/- 73.2792 µg/mL	Gravimetric
	CAS # 78-93-3 (Lot SHBL6194)		+/- 755.1473 µg/mL	Unstressed
	Purity 99%		+/- 756.9399 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,512.0 µg/mL	+/- 73.2605 µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBM2797)		+/- 754.9542 µg/mL	Unstressed
	Purity 99%		+/- 756.7463 µg/mL	Stressed
4	2-Hexanone	12,504.4 µg/mL	+/- 73.2160 µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKCL1599)		+/- 754.4956 µg/mL	Unstressed
	Purity 99%		+/- 756.2867 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)

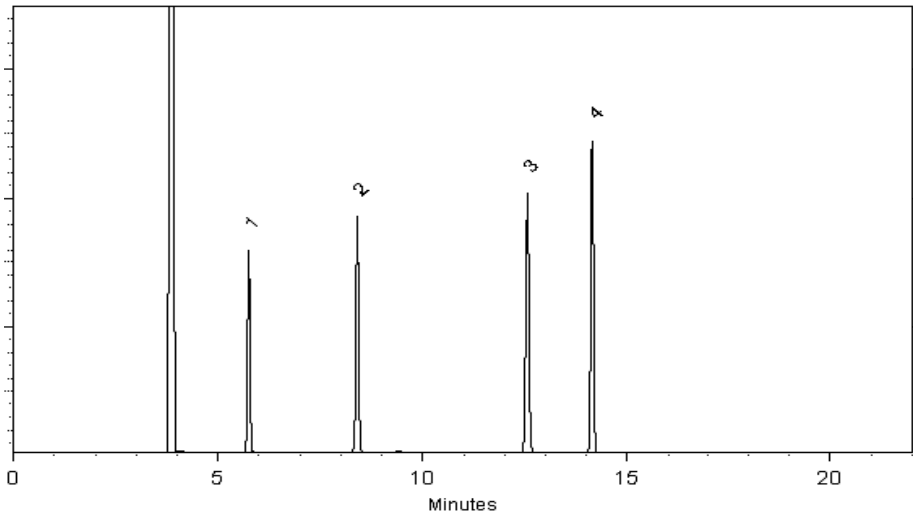
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Cathleen Soltis - Mix Technician

Date Mixed: 20-Jan-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 21-Jan-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:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_PentaCL_00002

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. : 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)

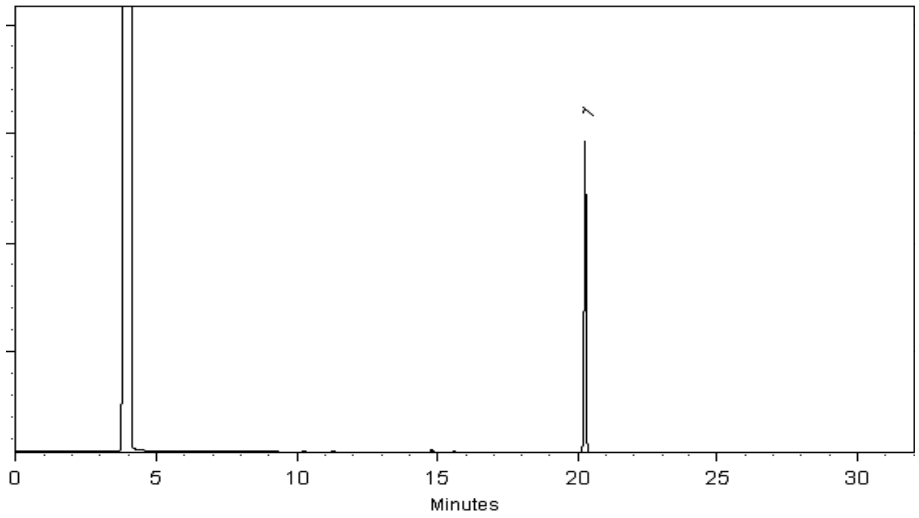
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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:

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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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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.

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.: 410-45147-1

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	410-45147-1	98	103	101	97
HD-COD-SW-7-0/1-0	410-45147-2	99	104	101	97
HD-COD-SW-8-0/1-0	410-45147-3	99	102	100	97
HD-COD-SW-9-0/1-0	410-45147-4	98	103	99	96
HD-COD-SW-13-0/1-0	410-45147-5	99	102	100	97
HD-COD-SW-15-0/1-0	410-45147-6	99	100	100	98
HD-COD-SW-16-0/1-0	410-45147-7	98	104	101	97
HD-COD-SW-17-0/1-0	410-45147-8	100	104	100	96
HD-COD-SW-26-0/1-0	410-45147-9	99	102	98	96
HD-COD-SW-27-0/1-0	410-45147-10	100	104	100	96
HD-COD-SW-28-0/1-0	410-45147-11	104	103	93	98
HD-COD-SW-29-0/1-0	410-45147-12	105	103	94	97
HD-QC1-0/1-1	410-45147-13	105	102	94	97
HD-QC1-0/1-2	410-45147-14	105	102	95	99
	MB 410-145209/7	97	102	101	99
	MB 410-145644/7	104	100	95	98
	LCS 410-145209/4	98	103	101	99
	LCS 410-145644/4	106	100	96	99
	LCSD 410-145209/5	97	102	101	100
	LCSD 410-145644/5	104	102	96	99
HD-COD-SW-15-0/1-0 MS	410-45147-6 MS	98	102	101	99
HD-COD-SW-15-0/1-0 MSD	410-45147-6 MSD	98	102	101	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 Job No.: 410-45147-1

SDG No.:

Matrix: Water Level: Low Lab File ID: CL06X07.D

Lab ID: LCS 410-145209/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	4.95	99	71-134	
1,1,1-Trichloroethane	5.00	5.04	101	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.21	104	75-123	
1,1,2-Trichloroethane	5.00	5.24	105	80-120	
1,1-Dichloroethane	5.00	5.44	109	74-120	
1,1-Dichloroethene	5.00	5.45	109	80-131	
1,2-Dibromoethane (EDB)	5.00	5.04	101	80-120	
1,2-Dichloroethane	5.00	5.09	102	69-122	
1,2-Dichloropropane	5.00	5.74	115	80-120	
2-Butanone (MEK)	62.5	84.7	136	59-141	
2-Hexanone	62.5	82.8	132	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	82.3	132	55-140	
Acetone	62.5	60.7	97	60-146	
Benzene	5.00	5.41	108	80-120	
Bromochloromethane	5.00	5.01	100	80-120	
Bromodichloromethane	5.00	5.40	108	73-124	
Bromoform	5.00	5.49	110	49-144	
Bromomethane	5.00	5.42	108	60-136	
Carbon disulfide	5.00	5.79	116	67-130	
Carbon tetrachloride	5.00	4.98	100	64-141	
Chlorobenzene	5.00	5.02	100	80-120	
Chloroethane	5.00	5.64	113	63-120	
Chloroform	5.00	5.20	104	80-120	
Chloromethane	5.00	6.76	135	56-124	*+
cis-1,2-Dichloroethene	5.00	5.22	104	80-122	
cis-1,3-Dichloropropene	5.00	5.39	108	67-121	
Dibromochloromethane	5.00	5.35	107	64-138	
Ethylbenzene	5.00	5.22	104	80-120	
Methyl tert-butyl ether	5.00	5.10	102	69-120	
Methylene Chloride	5.00	5.53	111	80-120	
Styrene	5.00	5.21	104	80-120	
Tetrachloroethene	5.00	4.90	98	80-120	
Toluene	5.00	5.18	104	80-120	
trans-1,2-Dichloroethene	5.00	5.26	105	80-122	
trans-1,3-Dichloropropene	5.00	5.49	110	61-129	
Trichloroethene	5.00	5.15	103	80-120	
Vinyl chloride	5.00	6.71	134	60-125	*+
Xylenes, Total	15.0	15.5	103	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 Job No.: 410-45147-1

SDG No.:

Matrix: Water Level: Low Lab File ID: HL07X03.D

Lab ID: LCS 410-145644/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.07	101	71-134	
1,1,1-Trichloroethane	5.00	5.34	107	78-126	
1,1,2,2-Tetrachloroethane	5.00	4.87	97	75-123	
1,1,2-Trichloroethane	5.00	5.17	103	80-120	
1,1-Dichloroethane	5.00	5.12	102	74-120	
1,1-Dichloroethene	5.00	5.34	107	80-131	
1,2-Dibromoethane (EDB)	5.00	5.07	101	80-120	
1,2-Dichloroethane	5.00	5.33	107	69-122	
1,2-Dichloropropane	5.00	5.25	105	80-120	
2-Butanone (MEK)	62.5	53.6	86	59-141	
2-Hexanone	62.5	56.0	90	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	54.0	86	55-140	
Acetone	62.5	46.4	74	60-146	
Benzene	5.00	5.26	105	80-120	
Bromochloromethane	5.00	5.68	114	80-120	
Bromodichloromethane	5.00	5.51	110	73-124	
Bromoform	5.00	5.49	110	49-144	
Bromomethane	5.00	5.00	100	60-136	
Carbon disulfide	5.00	5.01	100	67-130	
Carbon tetrachloride	5.00	5.46	109	64-141	
Chlorobenzene	5.00	4.98	100	80-120	
Chloroethane	5.00	4.85	97	63-120	
Chloroform	5.00	5.35	107	80-120	
Chloromethane	5.00	4.90	98	56-124	
cis-1,2-Dichloroethene	5.00	5.35	107	80-122	
cis-1,3-Dichloropropene	5.00	5.28	106	67-121	
Dibromochloromethane	5.00	5.08	102	64-138	
Ethylbenzene	5.00	4.92	98	80-120	
Methyl tert-butyl ether	5.00	5.04	101	69-120	
Methylene Chloride	5.00	5.34	107	80-120	
Styrene	5.00	5.14	103	80-120	
Tetrachloroethene	5.00	4.91	98	80-120	
Toluene	5.00	4.82	96	80-120	
trans-1,2-Dichloroethene	5.00	5.27	105	80-122	
trans-1,3-Dichloropropene	5.00	5.18	104	61-129	
Trichloroethene	5.00	5.22	104	80-120	
Vinyl chloride	5.00	4.83	97	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 Job No.: 410-45147-1

SDG No.:

Matrix: Water Level: Low Lab File ID: CL06X08.D

Lab ID: LCSD 410-145209/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.00	100	1	30	71-134	
1,1,1-Trichloroethane	5.00	5.01	100	0	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.20	104	0	30	75-123	
1,1,2-Trichloroethane	5.00	5.23	105	0	30	80-120	
1,1-Dichloroethane	5.00	5.33	107	2	30	74-120	
1,1-Dichloroethene	5.00	5.44	109	0	30	80-131	
1,2-Dibromoethane (EDB)	5.00	5.04	101	0	30	80-120	
1,2-Dichloroethane	5.00	5.02	100	1	30	69-122	
1,2-Dichloropropane	5.00	5.63	113	2	30	80-120	
2-Butanone (MEK)	62.5	87.1	139	3	30	59-141	
2-Hexanone	62.5	86.4	138	4	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	86.7	139	5	30	55-140	
Acetone	62.5	60.5	97	0	30	60-146	
Benzene	5.00	5.30	106	2	30	80-120	
Bromochloromethane	5.00	5.01	100	0	30	80-120	
Bromodichloromethane	5.00	5.36	107	1	30	73-124	
Bromoform	5.00	5.41	108	2	30	49-144	
Bromomethane	5.00	5.25	105	3	30	60-136	
Carbon disulfide	5.00	5.78	116	0	30	67-130	
Carbon tetrachloride	5.00	5.03	101	1	30	64-141	
Chlorobenzene	5.00	4.97	99	1	30	80-120	
Chloroethane	5.00	5.46	109	3	30	63-120	
Chloroform	5.00	5.18	104	0	30	80-120	
Chloromethane	5.00	6.66	133	2	30	56-124	*+
cis-1,2-Dichloroethene	5.00	5.22	104	0	30	80-122	
cis-1,3-Dichloropropene	5.00	5.39	108	0	30	67-121	
Dibromochloromethane	5.00	5.37	107	0	30	64-138	
Ethylbenzene	5.00	5.20	104	0	30	80-120	
Methyl tert-butyl ether	5.00	5.04	101	1	30	69-120	
Methylene Chloride	5.00	5.42	108	2	30	80-120	
Styrene	5.00	5.15	103	1	30	80-120	
Tetrachloroethene	5.00	4.88	98	1	30	80-120	
Toluene	5.00	5.12	102	1	30	80-120	
trans-1,2-Dichloroethene	5.00	5.18	104	2	30	80-122	
trans-1,3-Dichloropropene	5.00	5.51	110	0	30	61-129	
Trichloroethene	5.00	5.06	101	2	30	80-120	
Vinyl chloride	5.00	6.50	130	3	30	60-125	*+
Xylenes, Total	15.0	15.4	103	1	30	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 Job No.: 410-45147-1

SDG No.:

Matrix: Water Level: Low Lab File ID: HL07X04.D

Lab ID: LCSD 410-145644/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.07	101	0	30	71-134	
1,1,1-Trichloroethane	5.00	5.17	103	3	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	4.82	96	1	30	75-123	
1,1,2-Trichloroethane	5.00	5.10	102	1	30	80-120	
1,1-Dichloroethane	5.00	5.14	103	0	30	74-120	
1,1-Dichloroethene	5.00	5.22	104	2	30	80-131	
1,2-Dibromoethane (EDB)	5.00	5.00	100	1	30	80-120	
1,2-Dichloroethane	5.00	5.36	107	0	30	69-122	
1,2-Dichloropropane	5.00	5.14	103	2	30	80-120	
2-Butanone (MEK)	62.5	60.0	96	11	30	59-141	
2-Hexanone	62.5	61.5	98	9	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	58.5	94	8	30	55-140	
Acetone	62.5	50.2	80	8	30	60-146	
Benzene	5.00	5.19	104	1	30	80-120	
Bromochloromethane	5.00	5.67	113	0	30	80-120	
Bromodichloromethane	5.00	5.47	109	1	30	73-124	
Bromoform	5.00	5.35	107	2	30	49-144	
Bromomethane	5.00	4.84	97	3	30	60-136	
Carbon disulfide	5.00	4.96	99	1	30	67-130	
Carbon tetrachloride	5.00	5.32	106	3	30	64-141	
Chlorobenzene	5.00	4.95	99	1	30	80-120	
Chloroethane	5.00	4.78	96	1	30	63-120	
Chloroform	5.00	5.28	106	1	30	80-120	
Chloromethane	5.00	4.78	96	3	30	56-124	
cis-1,2-Dichloroethene	5.00	5.32	106	1	30	80-122	
cis-1,3-Dichloropropene	5.00	5.23	105	1	30	67-121	
Dibromochloromethane	5.00	5.08	102	0	30	64-138	
Ethylbenzene	5.00	4.94	99	0	30	80-120	
Methyl tert-butyl ether	5.00	5.06	101	0	30	69-120	
Methylene Chloride	5.00	5.37	107	1	30	80-120	
Styrene	5.00	5.09	102	1	30	80-120	
Tetrachloroethene	5.00	4.92	98	0	30	80-120	
Toluene	5.00	4.86	97	1	30	80-120	
trans-1,2-Dichloroethene	5.00	5.11	102	3	30	80-122	
trans-1,3-Dichloropropene	5.00	5.03	101	3	30	61-129	
Trichloroethene	5.00	5.29	106	1	30	80-120	
Vinyl chloride	5.00	4.73	95	2	30	60-125	
Xylenes, Total	15.0	15.1	100	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 Job No.: 410-45147-1

SDG No.:

Matrix: Water Level: Low Lab File ID: CL06X12.D

Lab ID: 410-45147-6 MS Client ID: HD-COD-SW-15-0/1-0 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	ND	5.19	104	71-134	
1,1,1-Trichloroethane	5.00	0.11 J	5.61	110	78-126	
1,1,2,2-Tetrachloroethane	5.00	ND	5.32	106	75-123	
1,1,2-Trichloroethane	5.00	ND	5.33	106	80-120	
1,1-Dichloroethane	5.00	ND	5.85	117	74-120	
1,1-Dichloroethene	5.00	0.090 J	6.16	121	80-131	
1,2-Dibromoethane (EDB)	5.00	ND	5.17	103	80-120	
1,2-Dichloroethane	5.00	ND	5.19	104	69-122	
1,2-Dichloropropane	5.00	ND	5.94	119	80-120	
2-Butanone (MEK)	62.6	ND	90.9	145	59-141	FH
2-Hexanone	62.6	ND	88.7	142	52-140	FH
4-Methyl-2-pentanone (MIBK)	62.6	ND	88.9	142	55-140	FH
Acetone	62.6	ND	61.5	98	60-146	
Benzene	5.00	ND	5.82	116	80-120	
Bromochloromethane	5.00	ND	5.13	103	80-120	
Bromodichloromethane	5.00	ND	5.60	112	73-124	
Bromoform	5.00	ND	5.49	110	49-144	
Bromomethane	5.00	ND	5.86	117	60-136	
Carbon disulfide	5.00	ND	6.46	129	67-130	
Carbon tetrachloride	5.00	ND	5.61	112	64-141	
Chlorobenzene	5.00	ND	5.35	107	80-120	
Chloroethane	5.00	ND	6.16	123	63-120	FH
Chloroform	5.00	0.30 J	5.82	110	80-120	
Chloromethane	5.00	ND	7.44	149	80-120	FH
cis-1,2-Dichloroethene	5.00	0.66	6.25	112	80-122	
cis-1,3-Dichloropropene	5.00	ND	5.60	112	67-121	
Dibromochloromethane	5.00	ND	5.50	110	64-138	
Ethylbenzene	5.00	ND	5.60	112	80-120	
Methyl tert-butyl ether	5.00	0.050 J	5.25	105	69-120	
Methylene Chloride	5.00	ND	5.86	117	80-120	
Styrene	5.00	ND	5.42	108	80-120	
Tetrachloroethene	5.00	2.2	7.48	106	80-120	
Toluene	5.00	ND	5.41	108	80-120	
trans-1,2-Dichloroethene	5.00	ND	5.75	115	80-122	
trans-1,3-Dichloropropene	5.00	ND	5.60	112	61-129	
Trichloroethene	5.00	0.80	6.37	111	80-120	
Vinyl chloride	5.00	ND	7.41	148	60-125	FH
Xylenes, Total	15.0	ND	16.6	110	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 Job No.: 410-45147-1

SDG No.:

Matrix: Water Level: Low Lab File ID: CL06X13.D

Lab ID: 410-45147-6 MSD Client ID: HD-COD-SW-15-0/1-0 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.28	105	2	30	71-134	
1,1,1-Trichloroethane	5.00	5.72	112	2	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.33	107	0	30	75-123	
1,1,2-Trichloroethane	5.00	5.54	111	4	30	80-120	
1,1-Dichloroethane	5.00	6.01	120	3	30	74-120	
1,1-Dichloroethene	5.00	6.37	125	3	30	80-131	
1,2-Dibromoethane (EDB)	5.00	5.39	108	4	30	80-120	
1,2-Dichloroethane	5.00	5.13	103	1	30	69-122	
1,2-Dichloropropane	5.00	6.09	122	2	30	80-120	FH
2-Butanone (MEK)	62.6	81.3	130	11	30	59-141	
2-Hexanone	62.6	78.5	126	12	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	78.7	126	12	30	55-140	
Acetone	62.6	78.0	125	24	30	60-146	
Benzene	5.00	5.90	118	1	30	80-120	
Bromochloromethane	5.00	5.29	106	3	30	80-120	
Bromodichloromethane	5.00	5.72	114	2	30	73-124	
Bromoform	5.00	5.54	111	1	30	49-144	
Bromomethane	5.00	5.82	116	1	30	60-136	
Carbon disulfide	5.00	6.61	132	2	30	67-130	FH
Carbon tetrachloride	5.00	5.68	113	1	30	64-141	
Chlorobenzene	5.00	5.49	110	3	30	80-120	
Chloroethane	5.00	6.09	122	1	30	63-120	FH
Chloroform	5.00	5.89	112	1	30	80-120	
Chloromethane	5.00	7.31	146	2	30	80-120	FH
cis-1,2-Dichloroethene	5.00	6.37	114	2	30	80-122	
cis-1,3-Dichloropropene	5.00	5.73	114	2	30	67-121	
Dibromochloromethane	5.00	5.70	114	4	30	64-138	
Ethylbenzene	5.00	5.73	114	2	30	80-120	
Methyl tert-butyl ether	5.00	5.37	107	2	30	69-120	
Methylene Chloride	5.00	5.92	118	1	30	80-120	
Styrene	5.00	5.52	110	2	30	80-120	
Tetrachloroethene	5.00	7.67	110	2	30	80-120	
Toluene	5.00	5.62	112	4	30	80-120	
trans-1,2-Dichloroethene	5.00	5.79	116	1	30	80-122	
trans-1,3-Dichloropropene	5.00	5.76	115	3	30	61-129	
Trichloroethene	5.00	6.44	113	1	30	80-120	
Vinyl chloride	5.00	7.43	148	0	30	60-125	FH
Xylenes, Total	15.0	16.9	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 Job No.: 410-45147-1

SDG No.:

Lab File ID: CL06X06.D Lab Sample ID: MB 410-145209/7

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

Instrument ID: 10193 Date Analyzed: 07/06/2021 11:43

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 410-145209/4	CL06X07.D	07/06/2021 12:06
	LCSD 410-145209/5	CL06X08.D	07/06/2021 12:28
HD-COD-SW-15-0/1-0	410-45147-6	CL06X11.D	07/06/2021 13:35
HD-COD-SW-15-0/1-0 MS	410-45147-6 MS	CL06X12.D	07/06/2021 13:57
HD-COD-SW-15-0/1-0 MSD	410-45147-6 MSD	CL06X13.D	07/06/2021 14:20
HD-COD-SW-6-0/1-0	410-45147-1	CL06X23.D	07/06/2021 18:02
HD-COD-SW-7-0/1-0	410-45147-2	CL06X24.D	07/06/2021 18:25
HD-COD-SW-8-0/1-0	410-45147-3	CL06X25.D	07/06/2021 18:47
HD-COD-SW-9-0/1-0	410-45147-4	CL06X26.D	07/06/2021 19:09
HD-COD-SW-13-0/1-0	410-45147-5	CL06X27.D	07/06/2021 19:32
HD-COD-SW-16-0/1-0	410-45147-7	CL06X28.D	07/06/2021 19:54
HD-COD-SW-17-0/1-0	410-45147-8	CL06X29.D	07/06/2021 20:16
HD-COD-SW-26-0/1-0	410-45147-9	CL06X30.D	07/06/2021 20:38
HD-COD-SW-27-0/1-0	410-45147-10	CL06X31.D	07/06/2021 21:00

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-45147-1

SDG No.:

Lab File ID: HL07X06.D Lab Sample ID: MB 410-145644/7

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

Instrument ID: 19094 Date Analyzed: 07/07/2021 10:36

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 410-145644/4	HL07X03.D	07/07/2021 09:34
	LCSD 410-145644/5	HL07X04.D	07/07/2021 09:54
HD-QC1-0/1-2	410-45147-14	HL07X09.D	07/07/2021 11:38
HD-COD-SW-28-0/1-0	410-45147-11	HL07X30.D	07/07/2021 18:53
HD-COD-SW-29-0/1-0	410-45147-12	HL07X31.D	07/07/2021 19:13
HD-QC1-0/1-1	410-45147-13	HL07X32.D	07/07/2021 19:34

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Lab File ID: CM11T01.D BFB Injection Date: 03/11/2021

Instrument ID: 10193 BFB Injection Time: 15:00

Analysis Batch No.: 102081

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.3	
75	30.0 - 60.0 % of mass 95	50.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.9	(1.1) 1
174	Greater than 50% of mass 95	79.8	
175	5.0 - 9.0 % of mass 174	5.6	(7.1) 1
176	95.0 - 101.0 % of mass 174	77.3	(96.9) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.7) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 410-102081/12	CM11X12.D	03/11/2021	19:26
	ICIS 410-102081/13	CM11X13.D	03/11/2021	19:49
	IC 410-102081/14	CM11X14.D	03/11/2021	20:11
	IC 410-102081/15	CM11X15.D	03/11/2021	20:33
	IC 410-102081/16	CM11X16.D	03/11/2021	20:55
	IC 410-102081/17	CM11X17.D	03/11/2021	21:18
	IC 410-102081/18	CM11X18.D	03/11/2021	21:40
	ICV 410-102081/19	CM11X19.D	03/11/2021	22:02

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Lab File ID: CL06T01.D BFB Injection Date: 07/06/2021

Instrument ID: 10193 BFB Injection Time: 09:33

Analysis Batch No.: 145209

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.6	
75	30.0 - 60.0 % of mass 95	49.4	
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	1.1	(1.4) 1
174	Greater than 50% of mass 95	80.1	
175	5.0 - 9.0 % of mass 174	6.3	(7.9) 1
176	95.0 - 101.0 % of mass 174	78.5	(98.0) 1
177	5.0 - 9.0 % of mass 176	5.5	(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
	CCVIS 410-145209/3	CL06X02.D	07/06/2021	10:14
	MB 410-145209/7	CL06X06.D	07/06/2021	11:43
	LCS 410-145209/4	CL06X07.D	07/06/2021	12:06
	LCSD 410-145209/5	CL06X08.D	07/06/2021	12:28
HD-COD-SW-15-0/1-0	410-45147-6	CL06X11.D	07/06/2021	13:35
HD-COD-SW-15-0/1-0 MS	410-45147-6 MS	CL06X12.D	07/06/2021	13:57
HD-COD-SW-15-0/1-0 MSD	410-45147-6 MSD	CL06X13.D	07/06/2021	14:20
HD-COD-SW-6-0/1-0	410-45147-1	CL06X23.D	07/06/2021	18:02
HD-COD-SW-7-0/1-0	410-45147-2	CL06X24.D	07/06/2021	18:25
HD-COD-SW-8-0/1-0	410-45147-3	CL06X25.D	07/06/2021	18:47
HD-COD-SW-9-0/1-0	410-45147-4	CL06X26.D	07/06/2021	19:09
HD-COD-SW-13-0/1-0	410-45147-5	CL06X27.D	07/06/2021	19:32
HD-COD-SW-16-0/1-0	410-45147-7	CL06X28.D	07/06/2021	19:54
HD-COD-SW-17-0/1-0	410-45147-8	CL06X29.D	07/06/2021	20:16
HD-COD-SW-26-0/1-0	410-45147-9	CL06X30.D	07/06/2021	20:38
HD-COD-SW-27-0/1-0	410-45147-10	CL06X31.D	07/06/2021	21:00

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Lab File ID: HU30T03.D BFB Injection Date: 06/30/2021

Instrument ID: 19094 BFB Injection Time: 14:20

Analysis Batch No.: 143886

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.1	
75	30.0 - 60.0 % of mass 95	45.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.8	(1.0) 1
174	Greater than 50% of mass 95	79.6	
175	5.0 - 9.0 % of mass 174	6.0	(7.6) 1
176	95.0 - 101.0 % of mass 174	77.3	(97.1) 1
177	5.0 - 9.0 % of mass 176	5.4	(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 410-143886/4	HU30I01.D	06/30/2021	15:20
	IC 410-143886/5	HU30I02.D	06/30/2021	15:41
	IC 410-143886/6	HU30I03.D	06/30/2021	16:02
	IC 410-143886/7	HU30I04.D	06/30/2021	16:22
	IC 410-143886/8	HU30I05.D	06/30/2021	16:43
	IC 410-143886/9	HU30I06.D	06/30/2021	17:04
	IC 410-143886/10	HU30I07.D	06/30/2021	17:25
	IC 410-143886/14	HU30I11.D	06/30/2021	18:47
	ICIS 410-143886/15	HU30I12.D	06/30/2021	19:08
	IC 410-143886/16	HU30I13.D	06/30/2021	19:29
	IC 410-143886/17	HU30I14.D	06/30/2021	19:49
	IC 410-143886/18	HU30I15.D	06/30/2021	20:10
	IC 410-143886/19	HU30I16.D	06/30/2021	20:31
	IC 410-143886/20	HU30I17.D	06/30/2021	20:52
	ICV 410-143886/21	HU30V11.D	06/30/2021	21:12

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Lab File ID: HL07T01.D BFB Injection Date: 07/07/2021

Instrument ID: 19094 BFB Injection Time: 08:36

Analysis Batch No.: 145644

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	45.7	
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	0.6	(0.7) 1
174	Greater than 50% of mass 95	87.9	
175	5.0 - 9.0 % of mass 174	6.3	(7.2) 1
176	95.0 - 101.0 % of mass 174	84.7	(96.4) 1
177	5.0 - 9.0 % of mass 176	5.4	(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
	CCVIS 410-145644/3	HL07X02.D	07/07/2021	9:13
	LCS 410-145644/4	HL07X03.D	07/07/2021	9:34
	LCSD 410-145644/5	HL07X04.D	07/07/2021	9:54
	MB 410-145644/7	HL07X06.D	07/07/2021	10:36
HD-QC1-0/1-2	410-45147-14	HL07X09.D	07/07/2021	11:38
HD-COD-SW-28-0/1-0	410-45147-11	HL07X30.D	07/07/2021	18:53
HD-COD-SW-29-0/1-0	410-45147-12	HL07X31.D	07/07/2021	19:13
HD-QC1-0/1-1	410-45147-13	HL07X32.D	07/07/2021	19:34

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Sample No.: ICIS 410-102081/13 Date Analyzed: 03/11/2021 19:49

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

Lab File ID (Standard): CM11X13.D Heated Purge: (Y/N) N

Calibration ID: 21794

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		195338	4.05	2227977	7.52	1638044	11.06
UPPER LIMIT		390676	4.55	4455954	8.02	3276088	11.56
LOWER LIMIT		97669	3.55	1113989	7.02	819022	10.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-102081/19		163911	4.06	2109844	7.52	1553035	11.06
CCVIS 410-145209/3		167076	4.04	2217290	7.49	1712082	11.04

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.: 410-45147-1

SDG No.:

Sample No.: ICIS 410-102081/13 Date Analyzed: 03/11/2021 19:49

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

Lab File ID (Standard): CM11X13.D Heated Purge: (Y/N) N

Calibration ID: 21794

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		910957	12.97				
UPPER LIMIT		1821914	13.47				
LOWER LIMIT		455479	12.47				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-102081/19		854376	12.97				
CCVIS 410-145209/3		1007053	12.96				

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.: 410-45147-1

SDG No.:

Sample No.: CCVIS 410-145209/3 Date Analyzed: 07/06/2021 10:14

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

Lab File ID (Standard): CL06X02.D Heated Purge: (Y/N) N

Calibration ID: 23074

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		167076	4.04	2217290	7.49	1712082	11.04
UPPER LIMIT		334152	4.54	4434580	7.99	3424164	11.54
LOWER LIMIT		83538	3.54	1108645	6.99	856041	10.54
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-145209/7		147260	4.04	2173456	7.48	1628361	11.04
LCS 410-145209/4		164901	4.01	2196716	7.48	1649699	11.04
LCSD 410-145209/5		155178	4.01	2198996	7.49	1640751	11.04
410-45147-6	HD-COD-SW-15-0/1-0	150656	4.04	2141627	7.49	1612176	11.04
410-45147-6 MS	HD-COD-SW-15-0/1-0 MS	150631	4.03	2184963	7.49	1647469	11.04
410-45147-6 MSD	HD-COD-SW-15-0/1-0 MSD	173618	4.03	2175064	7.49	1627941	11.04
410-45147-1	HD-COD-SW-6-0/1-0	183612	4.00	2160497	7.48	1608502	11.04
410-45147-2	HD-COD-SW-7-0/1-0	192075	4.01	2145788	7.49	1603427	11.04
410-45147-3	HD-COD-SW-8-0/1-0	194401	4.00	2122522	7.48	1597204	11.04
410-45147-4	HD-COD-SW-9-0/1-0	127776	4.05	2163189	7.49	1626318	11.04
410-45147-5	HD-COD-SW-13-0/1-0	158400	4.00	2160025	7.48	1625116	11.04
410-45147-7	HD-COD-SW-16-0/1-0	175781	4.01	2145012	7.49	1595008	11.04
410-45147-8	HD-COD-SW-17-0/1-0	119381	4.07	2092450	7.48	1577092	11.04
410-45147-9	HD-COD-SW-26-0/1-0	135893	4.03	2091209	7.49	1584559	11.04
410-45147-10	HD-COD-SW-27-0/1-0	178771	4.01	2120373	7.49	1601125	11.04

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.: 410-45147-1

SDG No.:

Sample No.: CCVIS 410-145209/3 Date Analyzed: 07/06/2021 10:14

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

Lab File ID (Standard): CL06X02.D Heated Purge: (Y/N) N

Calibration ID: 23074

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		1007053	12.96				
UPPER LIMIT		2014106	13.46				
LOWER LIMIT		503527	12.46				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-145209/7		907110	12.96				
LCS 410-145209/4		943292	12.96				
LCSD 410-145209/5		935979	12.96				
410-45147-6	HD-COD-SW-15-0/1-0	902956	12.96				
410-45147-6 MS	HD-COD-SW-15-0/1-0 MS	935992	12.96				
410-45147-6 MSD	HD-COD-SW-15-0/1-0 MSD	923867	12.96				
410-45147-1	HD-COD-SW-6-0/1-0	898667	12.96				
410-45147-2	HD-COD-SW-7-0/1-0	907688	12.96				
410-45147-3	HD-COD-SW-8-0/1-0	889489	12.96				
410-45147-4	HD-COD-SW-9-0/1-0	896007	12.96				
410-45147-5	HD-COD-SW-13-0/1-0	886082	12.96				
410-45147-7	HD-COD-SW-16-0/1-0	886695	12.96				
410-45147-8	HD-COD-SW-17-0/1-0	872772	12.96				
410-45147-9	HD-COD-SW-26-0/1-0	864302	12.96				
410-45147-10	HD-COD-SW-27-0/1-0	884095	12.96				

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.: 410-45147-1

SDG No.:

Sample No.: ICIS 410-143886/15 Date Analyzed: 06/30/2021 19:08

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

Lab File ID (Standard): HU30I12.D Heated Purge: (Y/N) N

Calibration ID: 28257

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		123880	4.26	2368765	7.77	1741980	11.24
UPPER LIMIT		247760	4.76	4737530	8.27	3483960	11.74
LOWER LIMIT		61940	3.76	1184383	7.27	870990	10.74
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-143886/21		121400	4.25	2305813	7.77	1714728	11.24
CCVIS 410-145644/3		106637	4.25	1796157	7.77	1501425	11.23

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.: 410-45147-1

SDG No.:

Sample No.: ICIS 410-143886/15 Date Analyzed: 06/30/2021 19:08

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

Lab File ID (Standard): HU30I12.D Heated Purge: (Y/N) N

Calibration ID: 28257

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		925399	13.12				
UPPER LIMIT		1850798	13.62				
LOWER LIMIT		462700	12.62				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-143886/21		915426	13.12				
CCVIS 410-145644/3		820082	13.12				

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.: 410-45147-1

SDG No.:

Sample No.: CCVIS 410-145644/3 Date Analyzed: 07/07/2021 09:13

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

Lab File ID (Standard): HL07X02.D Heated Purge: (Y/N) N

Calibration ID: 28257

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		106637	4.25	1796157	7.77	1501425	11.23
UPPER LIMIT		213274	4.75	3592314	8.27	3002850	11.73
LOWER LIMIT		53319	3.75	898079	7.27	750713	10.73
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-145644/4		122955	4.25	1878064	7.77	1512131	11.23
LCSD 410-145644/5		111008	4.26	1897241	7.77	1520524	11.23
MB 410-145644/7		135568	4.25	1828061	7.77	1449416	11.23
410-45147-14	HD-QC1-0/1-2	131931	4.27	1852113	7.77	1481391	11.23
410-45147-11	HD-COD-SW-28-0/1-0	114126	4.29	1805865	7.77	1483333	11.23
410-45147-12	HD-COD-SW-29-0/1-0	102957	4.25	1689620	7.76	1390777	11.23
410-45147-13	HD-QC1-0/1-1	117205	4.25	1665903	7.77	1380390	11.23

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.: 410-45147-1

SDG No.:

Sample No.: CCVIS 410-145644/3 Date Analyzed: 07/07/2021 09:13

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

Lab File ID (Standard): HL07X02.D Heated Purge: (Y/N) N

Calibration ID: 28257

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		820082	13.12				
UPPER LIMIT		1640164	13.62				
LOWER LIMIT		410041	12.62				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-145644/4		827510	13.12				
LCSD 410-145644/5		831191	13.12				
MB 410-145644/7		798899	13.12				
410-45147-14	HD-QC1-0/1-2	806781	13.12				
410-45147-11	HD-COD-SW-28-0/1-0	813887	13.12				
410-45147-12	HD-COD-SW-29-0/1-0	768670	13.12				
410-45147-13	HD-QC1-0/1-1	764662	13.12				

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 E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-6-0/1-0 Lab Sample ID: 410-45147-1

Matrix: Water Lab File ID: CL06X23.D

Analysis Method: 8260D Date Collected: 06/24/2021 10:55

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 18:02

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND	^c	5.0	0.60
591-78-6	2-Hexanone	ND	^c	5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70
67-64-1	Acetone	1.9	J	5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND	*+ ^c	0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.088	J	0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	ND		0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	ND		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-6-0/1-0 Lab Sample ID: 410-45147-1

Matrix: Water Lab File ID: CL06X23.D

Analysis Method: 8260D Date Collected: 06/24/2021 10:55

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 18:02

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND	*+ ^c	0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X23.D
Lims ID: 410-45147-A-1
Client ID: HD-COD-SW-6-0/1-0
Sample Type: Client
Inject. Date: 06-Jul-2021 18:02:30 ALS Bottle#: 23 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033571-018
Misc. Info.: 410-45147-A-1
Operator ID: SRK36897 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 22:57:35 Calib Date: 13-Apr-2021 23:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: beckerk Date: 06-Jul-2021 22:54:44

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	3 Chloromethane	50	2.068	2.081	-0.013	95	2663	0.0378	
	5 Vinyl chloride	62		2.184				ND	7
	6 Bromomethane	94		2.495				ND	7
	7 Chloroethane	64		2.568				ND	7
	14 1,1-Dichloroethene	96		3.373				ND	7
	16 Acetone	43	3.397	3.403	-0.006	94	15890	1.87	
	20 Carbon disulfide	76		3.684				ND	7
	24 Methylene Chloride	84		3.989				ND	7
*	25 t-Butyl alcohol-d10 (IS)	65	4.001	4.044	-0.043	97	183612	50.0	
	28 Methyl tert-butyl ether	73		4.373				ND	7
	29 trans-1,2-Dichloroethene	96		4.379				ND	
	32 1,1-Dichloroethane	63		5.049				ND	
	36 2-Butanone (MEK)	43		5.860				ND	
	37 cis-1,2-Dichloroethene	96	5.879	5.891	-0.012	81	5638	0.0881	
	44 Chlorobromomethane	128		6.226				ND	
	46 Chloroform	83		6.378				ND	
$	47 Dibromofluoromethane (Surr)	113	6.586	6.598	-0.012	93	503415	9.84	
	48 1,1,1-Trichloroethane	97		6.598				ND	
	50 Carbon tetrachloride	117		6.805				ND	
$	53 1,2-Dichloroethane-d4 (Surr)	102	7.049	7.055	-0.006	100	108114	10.3	
	54 Benzene	78		7.080				ND	7
	55 1,2-Dichloroethane	62		7.159				ND	
*	57 Fluorobenzene (IS)	96	7.482	7.494	-0.012	98	2160497	10.0	
	60 Trichloroethene	95		7.976				ND	
	62 1,2-Dichloropropane	63		8.305				ND	
	67 Dichlorobromomethane	83		8.665				ND	7
	72 cis-1,3-Dichloropropene	75		9.225				ND	
	73 4-Methyl-2-pentanone (MIBK)	43		9.414				ND	7
$	74 Toluene-d8 (Surr)	98	9.542	9.542	0.000	95	2174048	10.1	
	75 Toluene	92	9.616	9.622	-0.006	97	7618	0.0485	
	76 trans-1,3-Dichloropropene	75		9.896				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
79 1,1,2-Trichloroethane	97		10.103				ND	
80 Tetrachloroethene	166	10.189	10.189	0.000	93	1859	0.0279	
82 2-Hexanone	43		10.335				ND	7
83 Chlorodibromomethane	129		10.487				ND	
84 Ethylene Dibromide	107		10.597				ND	
* 85 Chlorobenzene-d5 (IS)	117	11.042	11.042	0.000	88	1608502	10.0	
87 Chlorobenzene	112		11.067				ND	
89 1,1,1,2-Tetrachloroethane	131		11.152				ND	
90 Ethylbenzene	91		11.158				ND	7
S 88 Xylenes, Total	106		11.245				ND	7
91 m-Xylene & p-Xylene	106		11.274				ND	7
92 o-Xylene	106		11.609				ND	7
93 Styrene	104		11.627				ND	
94 Bromoform	173		11.786				ND	7
$ 98 4-Bromofluorobenzene (Surr)	95	12.060	12.060	0.000	89	801864	9.73	
99 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 113 1,4-Dichlorobenzene-d4	152	12.956	12.956	0.000	96	898667	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

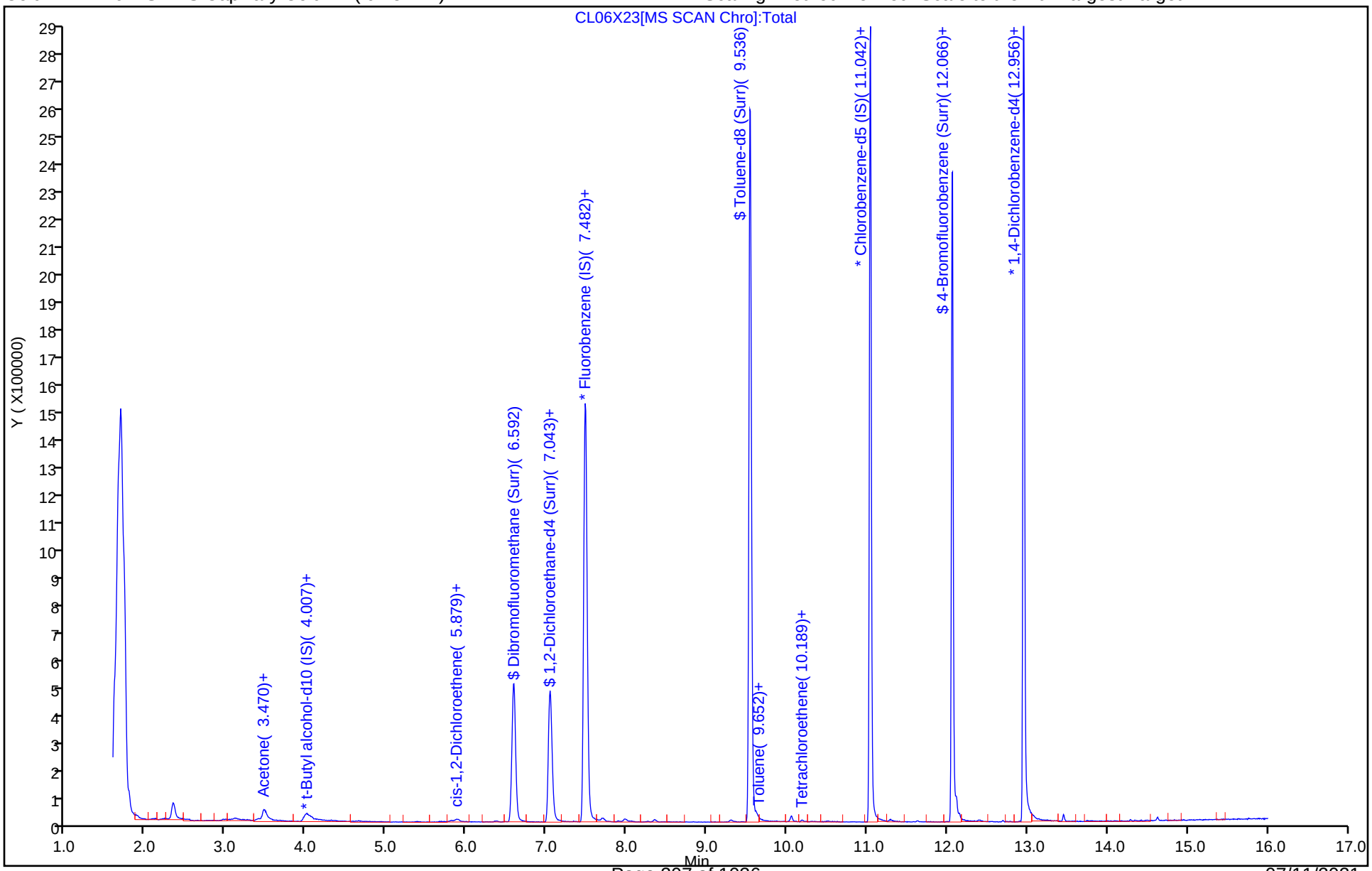
MSV_HP25_ISSS_00029 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 06-Jul-2021 22:57:59 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X23.D				
Injection Date:	06-Jul-2021 18:02:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	410-45147-A-1	Lab Sample ID:	410-45147-1	Worklist Smp#:	18
Client ID:	HD-COD-SW-6-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

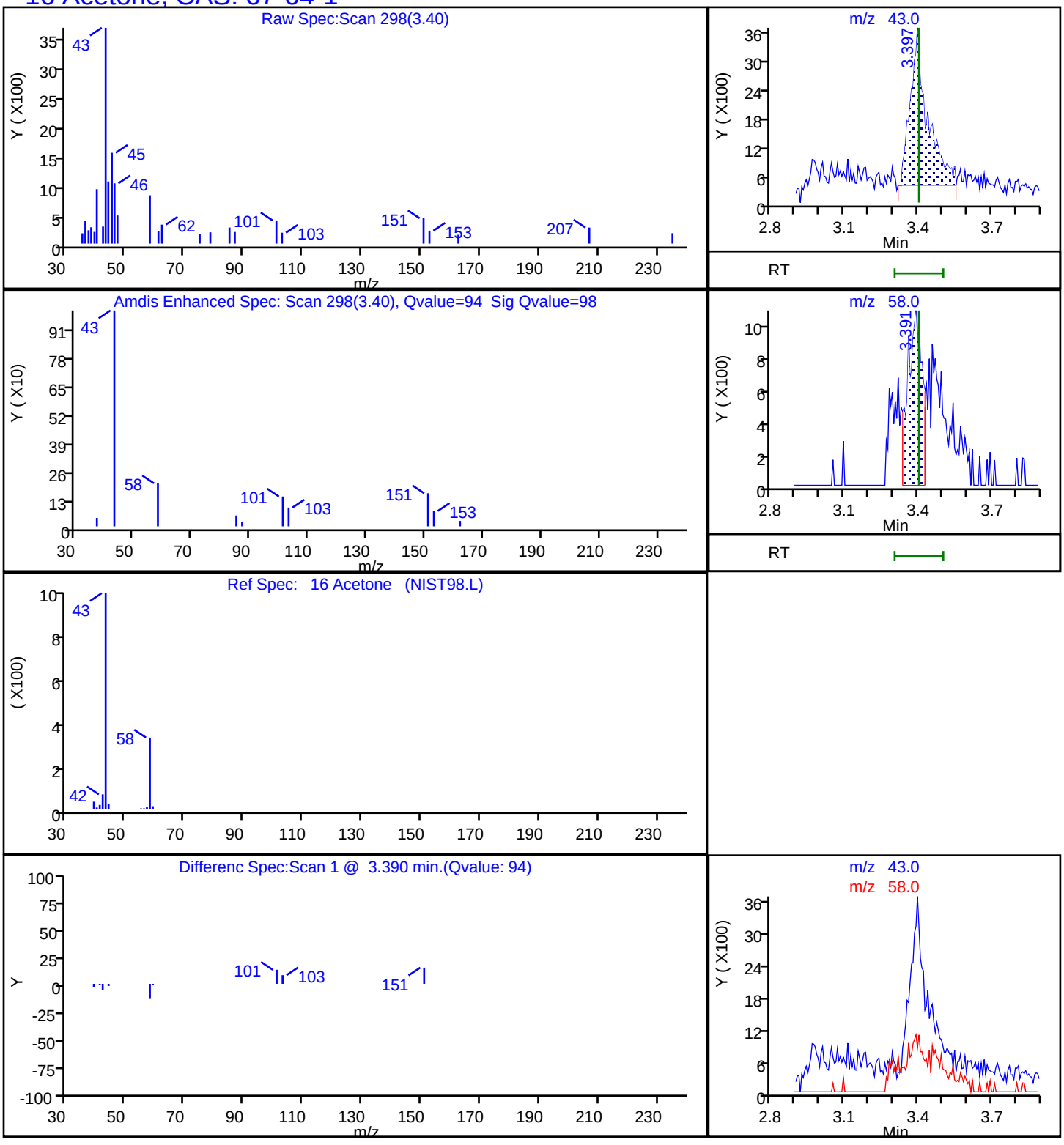
Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X23.D				
Lims ID:	410-45147-A-1				
Client ID:	HD-COD-SW-6-0/1-0				
Sample Type:	Client				
Inject. Date:	06-Jul-2021 18:02:30	ALS Bottle#:	23	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0033571-018				
Misc. Info.:	410-45147-A-1				
Operator ID:	SRK36897	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Jul-2021 22:57:35	Calib Date:	13-Apr-2021 23:14:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1659				
First Level Reviewer: beckerk		Date:	06-Jul-2021 22:54:44		

Compound	Amount Added	Amount Recovered	% Rec.
$ 47 Dibromofluoromethane (Surr)	10.0	9.84	98.41
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	102.62
$ 74 Toluene-d8 (Surr)	10.0	10.1	101.03
$ 98 4-Bromofluorobenzene (Surr)	10.0	9.73	97.30

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X23.D				
Injection Date:	06-Jul-2021 18:02:30	Instrument ID:	10193		
Lims ID:	410-45147-A-1	Lab Sample ID:	410-45147-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	23	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

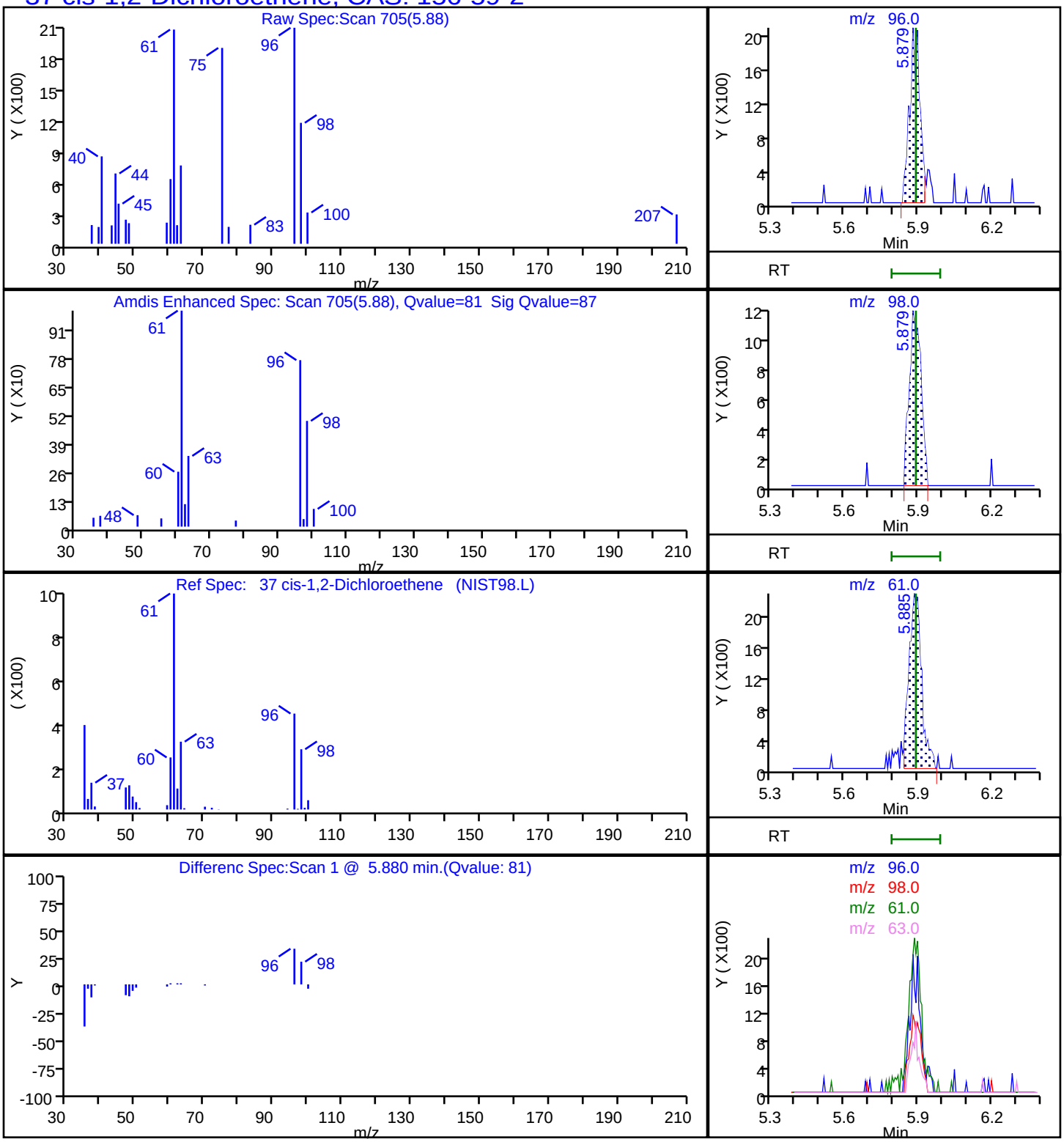
16 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X23.D				
Injection Date:	06-Jul-2021 18:02:30	Instrument ID:	10193		
Lims ID:	410-45147-A-1	Lab Sample ID:	410-45147-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	23	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

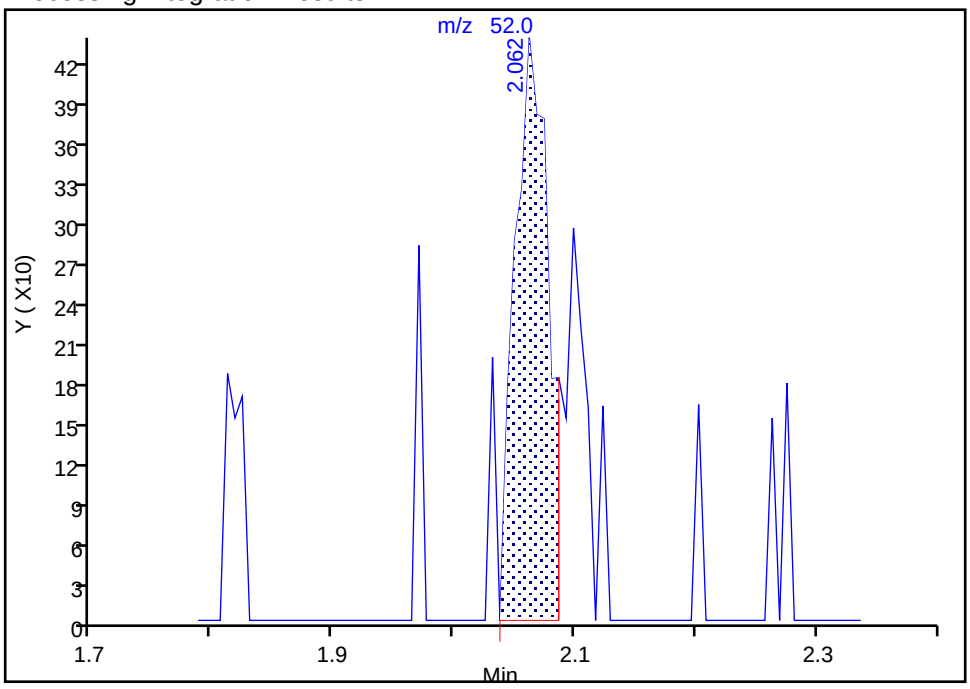
Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X23.D				
Injection Date:	06-Jul-2021 18:02:30	Instrument ID:	10193		
Lims ID:	410-45147-A-1	Lab Sample ID:	410-45147-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	23	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

3 Chloromethane, CAS: 74-87-3

Signal: 2

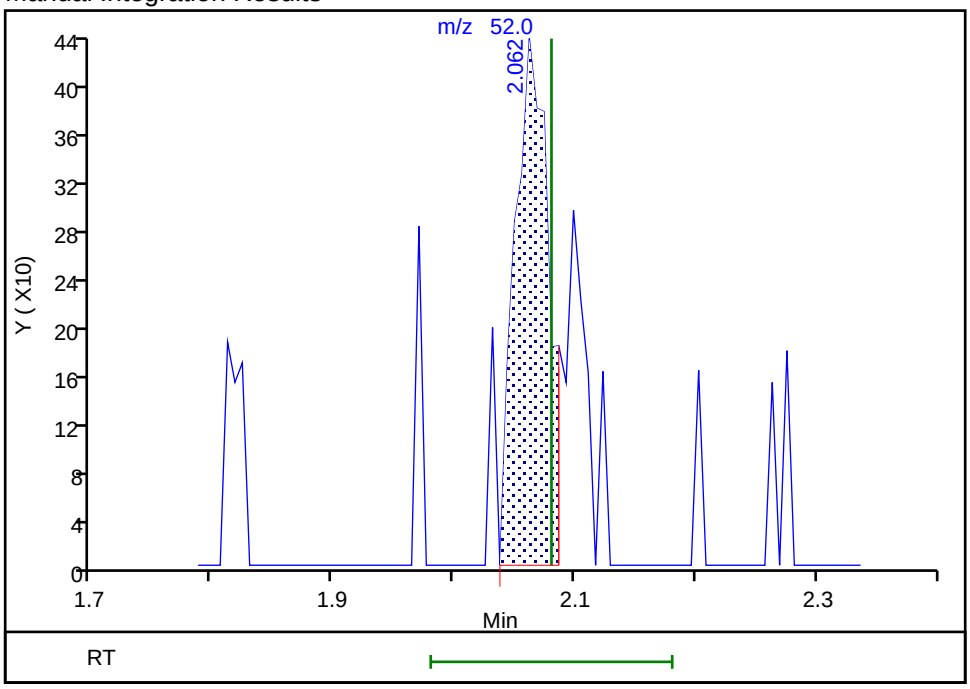
RT: 2.06
Area: 843
Amount: 0.037759
Amount Units: ug/l

Processing Integration Results



Manual Integration Results

RT: 2.06
Area: 843
Amount: 0.037759
Amount Units: ug/l



Reviewer: beckerk, 06-Jul-2021 22:54:27
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

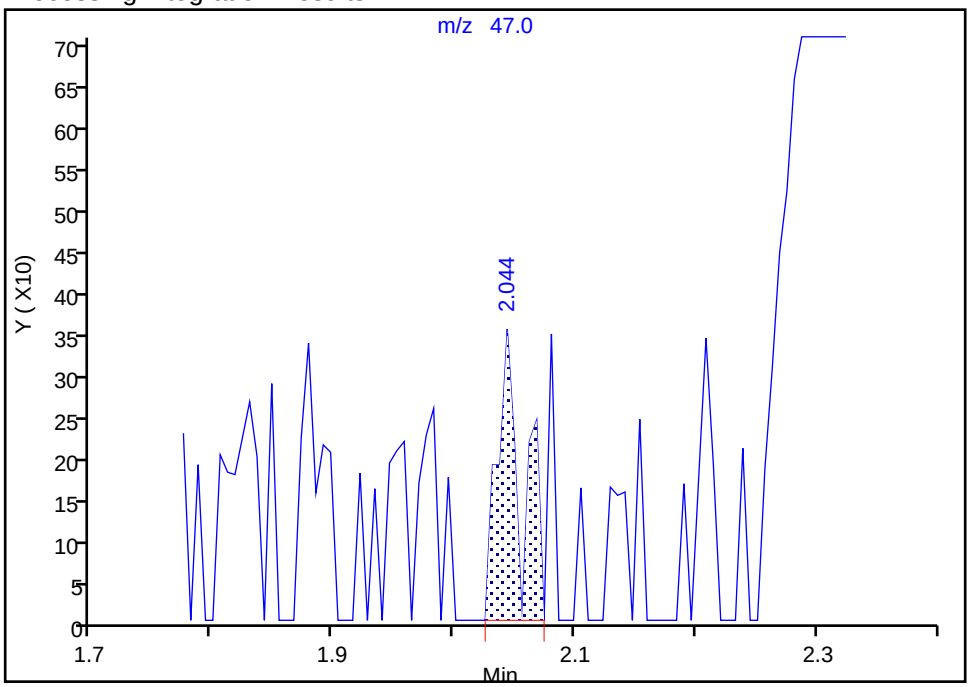
Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X23.D				
Injection Date:	06-Jul-2021 18:02:30	Instrument ID:	10193		
Lims ID:	410-45147-A-1	Lab Sample ID:	410-45147-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	23	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

3 Chloromethane, CAS: 74-87-3

Signal: 3

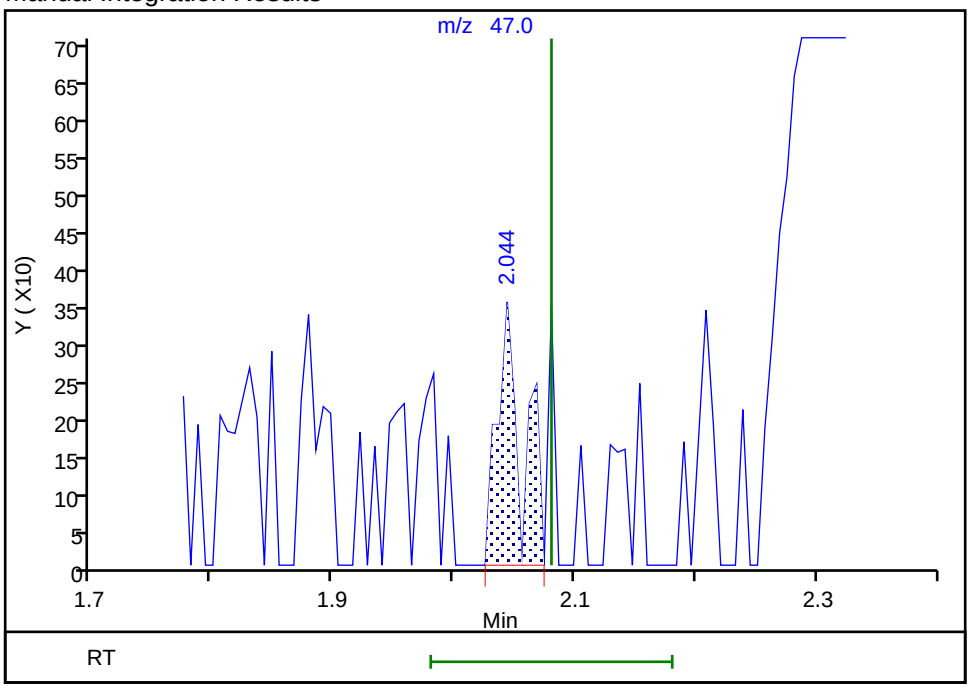
Processing Integration Results

RT: 2.04
Area: 511
Amount: 0.037759
Amount Units: ug/l



Manual Integration Results

RT: 2.04
Area: 511
Amount: 0.037759
Amount Units: ug/l



Reviewer: beckerk, 06-Jul-2021 22:54:27
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-7-0/1-0 Lab Sample ID: 410-45147-2

Matrix: Water Lab File ID: CL06X24.D

Analysis Method: 8260D Date Collected: 06/24/2021 11:20

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 18:25

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND	^c	5.0	0.60
591-78-6	2-Hexanone	ND	^c	5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70
67-64-1	Acetone	2.4	J	5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	0.10	J	0.50	0.090
74-87-3	Chloromethane	ND	*+ ^c	0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.11	J	0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	0.076	J	0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	0.094	J	0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-7-0/1-0 Lab Sample ID: 410-45147-2

Matrix: Water Lab File ID: CL06X24.D

Analysis Method: 8260D Date Collected: 06/24/2021 11:20

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 18:25

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND	*+ ^c	0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

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)	99		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X24.D
Lims ID: 410-45147-A-2
Client ID: HD-COD-SW-7-0/1-0
Sample Type: Client
Inject. Date: 06-Jul-2021 18:25:30 ALS Bottle#: 24 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033571-019
Misc. Info.: 410-45147-A-2
Operator ID: SRK36897 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 22:57:35 Calib Date: 13-Apr-2021 23:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: beckerk Date: 06-Jul-2021 22:54:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
3 Chloromethane	50	2.062	2.081	-0.019	20	3202	0.0457	
5 Vinyl chloride	62		2.184				ND	7
6 Bromomethane	94		2.495				ND	
7 Chloroethane	64		2.568				ND	7
14 1,1-Dichloroethene	96		3.373				ND	
16 Acetone	43	3.391	3.403	-0.012	96	21138	2.38	
20 Carbon disulfide	76		3.684				ND	7
24 Methylene Chloride	84		3.989				ND	7
* 25 t-Butyl alcohol-d10 (IS)	65	4.013	4.044	-0.031	96	192075	50.0	
28 Methyl tert-butyl ether	73		4.373				ND	
29 trans-1,2-Dichloroethene	96		4.379				ND	
32 1,1-Dichloroethane	63		5.049				ND	
36 2-Butanone (MEK)	43		5.860				ND	
37 cis-1,2-Dichloroethene	96	5.891	5.891	0.000	80	7042	0.1108	
44 Chlorobromomethane	128		6.226				ND	
46 Chloroform	83	6.385	6.378	0.007	94	10527	0.1029	
$ 47 Dibromofluoromethane (Surr)	113	6.592	6.598	-0.006	93	502573	9.89	
48 1,1,1-Trichloroethane	97		6.598				ND	
50 Carbon tetrachloride	117		6.805				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.043	7.055	-0.012	100	108729	10.4	
54 Benzene	78		7.080				ND	7
55 1,2-Dichloroethane	62		7.159				ND	
* 57 Fluorobenzene (IS)	96	7.488	7.494	-0.006	98	2145788	10.0	
60 Trichloroethene	95	7.976	7.976	0.000	95	5803	0.0945	
62 1,2-Dichloropropane	63		8.305				ND	
67 Dichlorobromomethane	83		8.665				ND	7
72 cis-1,3-Dichloropropene	75		9.225				ND	
73 4-Methyl-2-pentanone (MIBK)	43		9.414				ND	7
$ 74 Toluene-d8 (Surr)	98	9.543	9.542	0.001	94	2166622	10.1	
75 Toluene	92	9.616	9.622	-0.006	95	6466	0.0413	
76 trans-1,3-Dichloropropene	75		9.896				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
79 1,1,2-Trichloroethane	97		10.103				ND	
80 Tetrachloroethene	166	10.195	10.189	0.006	95	5030	0.0758	
82 2-Hexanone	43		10.335				ND	7
83 Chlorodibromomethane	129		10.487				ND	
84 Ethylene Dibromide	107		10.597				ND	
* 85 Chlorobenzene-d5 (IS)	117	11.042	11.042	0.000	88	1603427	10.0	
87 Chlorobenzene	112		11.067				ND	
89 1,1,1,2-Tetrachloroethane	131		11.152				ND	
90 Ethylbenzene	91		11.158				ND	7
S 88 Xylenes, Total	106		11.245				ND	7
91 m-Xylene & p-Xylene	106		11.274				ND	7
92 o-Xylene	106		11.609				ND	7
93 Styrene	104		11.627				ND	7
94 Bromoform	173		11.786				ND	7
$ 98 4-Bromofluorobenzene (Surr)	95	12.060	12.060	0.000	87	800048	9.74	
99 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 113 1,4-Dichlorobenzene-d4	152	12.957	12.956	0.001	96	907688	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP25_ISSS_00029 Amount Added: 1.00 Units: uL Run Reagent

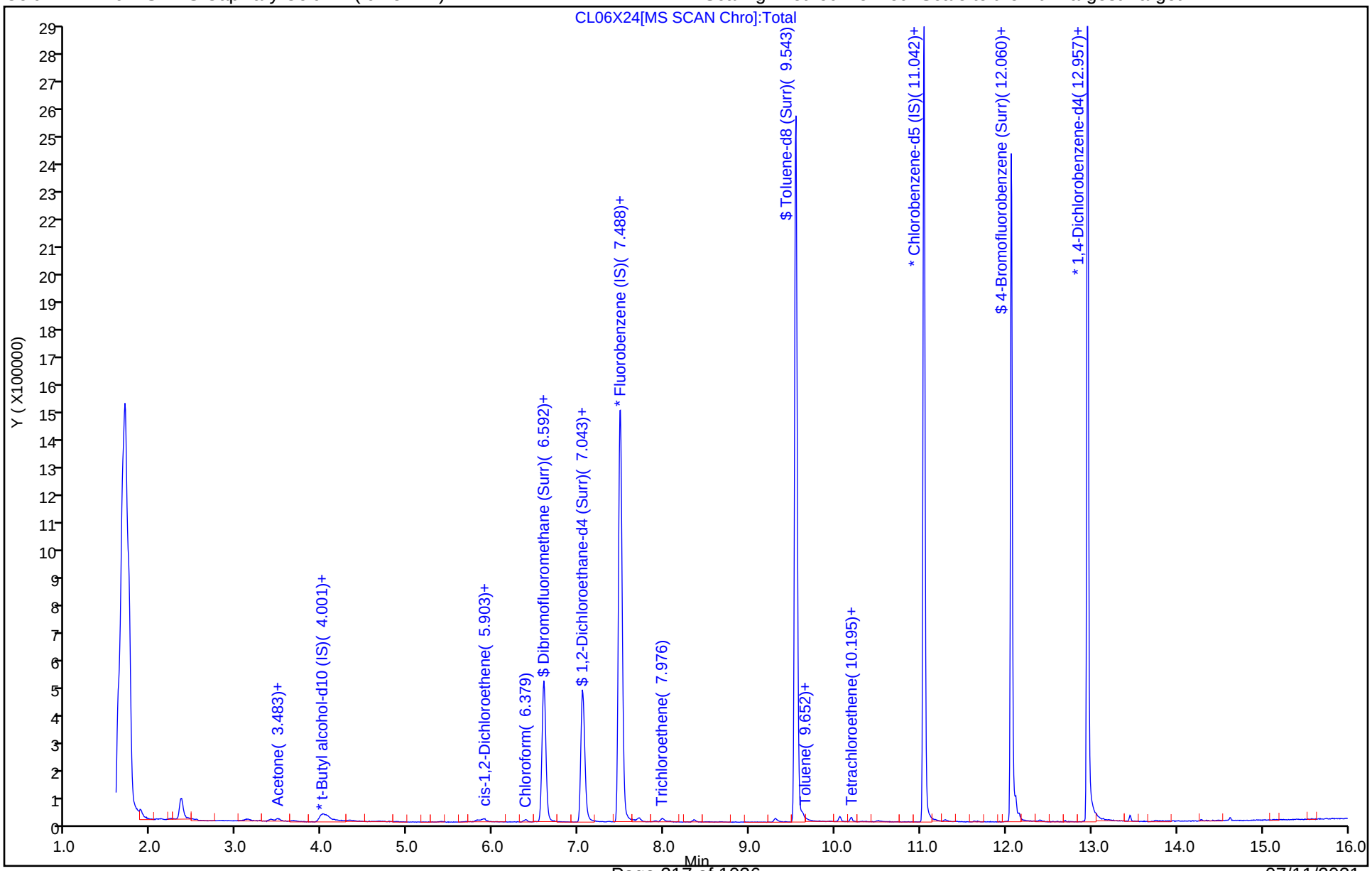
Report Date: 06-Jul-2021 22:58:01 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X24.D

Injection Date:	06-Jul-2021 18:25:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	410-45147-A-2	Lab Sample ID:	410-45147-2	Worklist Smp#:	19
Client ID:	HD-COD-SW-7-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

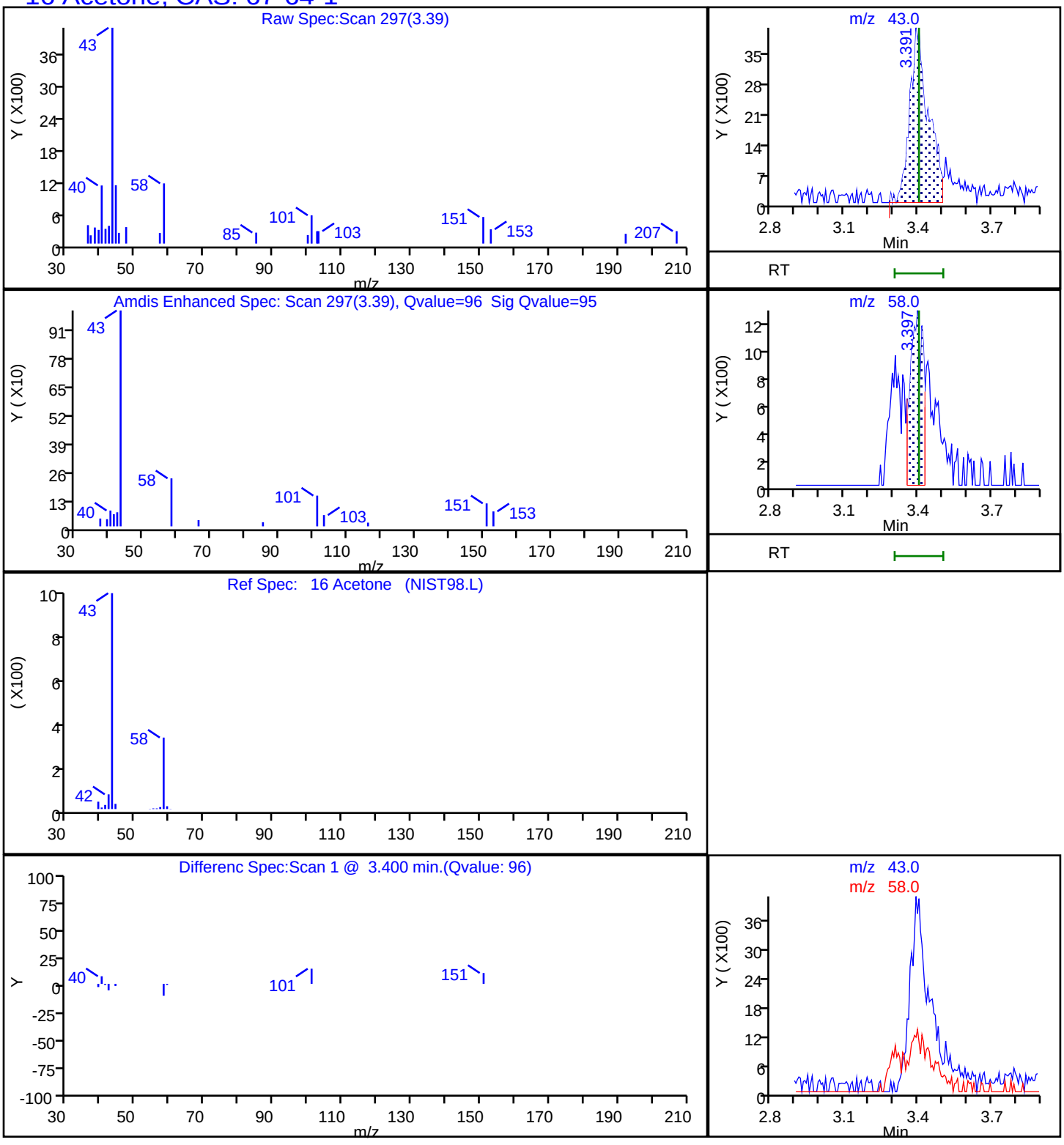
Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X24.D				
Lims ID:	410-45147-A-2				
Client ID:	HD-COD-SW-7-0/1-0				
Sample Type:	Client				
Inject. Date:	06-Jul-2021 18:25:30	ALS Bottle#:	24	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0033571-019				
Misc. Info.:	410-45147-A-2				
Operator ID:	SRK36897	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Jul-2021 22:57:35	Calib Date:	13-Apr-2021 23:14:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1659				
First Level Reviewer: beckerk		Date:	06-Jul-2021 22:54:54		

Compound	Amount Added	Amount Recovered	% Rec.
$ 47 Dibromofluoromethane (Surr)	10.0	9.89	98.92
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	103.91
$ 74 Toluene-d8 (Surr)	10.0	10.1	101.01
$ 98 4-Bromofluorobenzene (Surr)	10.0	9.74	97.38

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X24.D				
Injection Date:	06-Jul-2021 18:25:30	Instrument ID:	10193		
Lims ID:	410-45147-A-2	Lab Sample ID:	410-45147-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	24	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

16 Acetone, CAS: 67-64-1



Report Date: 06-Jul-2021 22:58:01 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X24.D

Injection Date: 06-Jul-2021 18:25:30 Instrument ID: 10193

Lims ID: 410-45147-A-2 Lab Sample ID: 410-45147-2

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

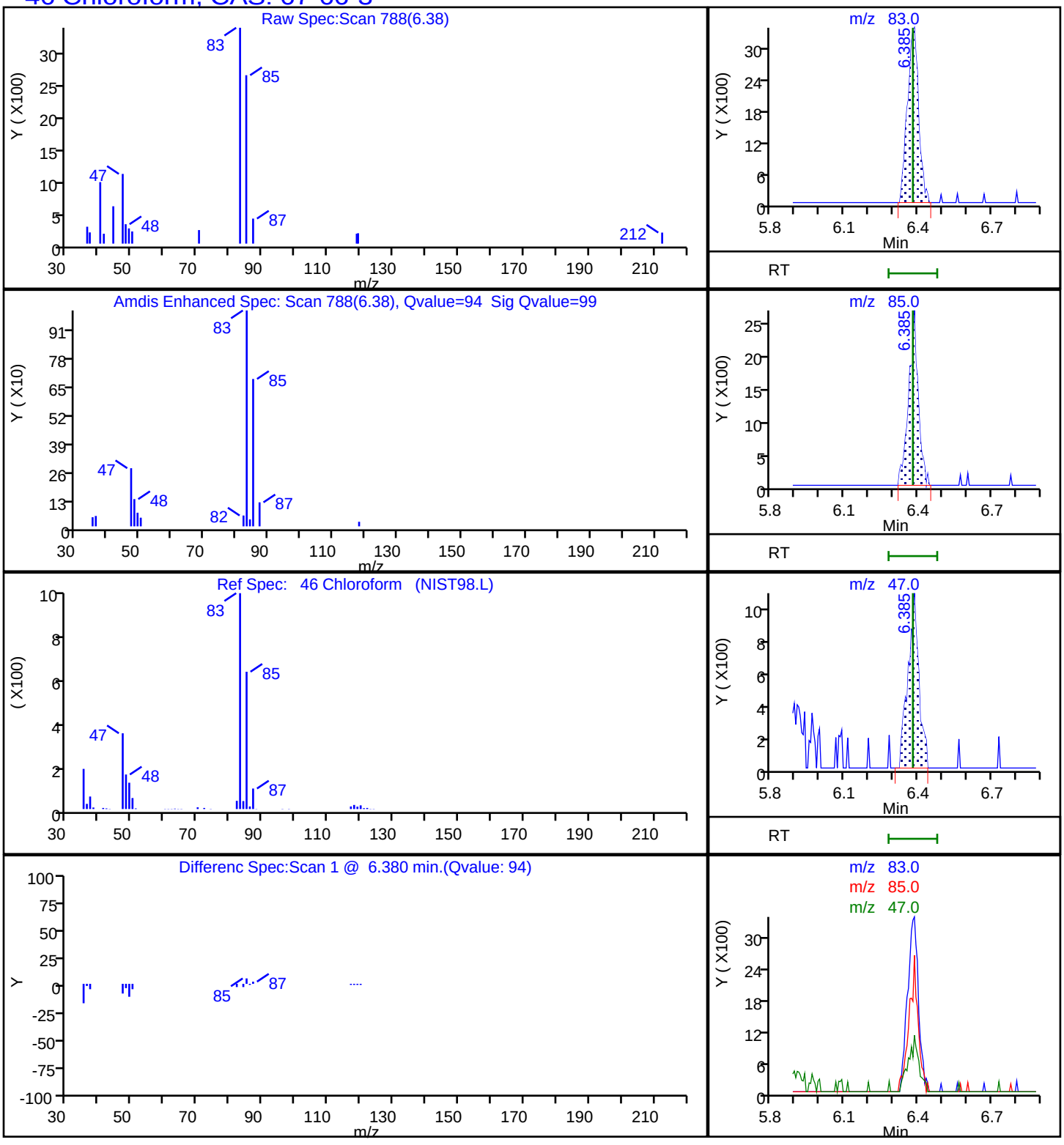
Operator ID: SRK36897 ALS Bottle#: 24 Worklist Smp#: 19

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

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

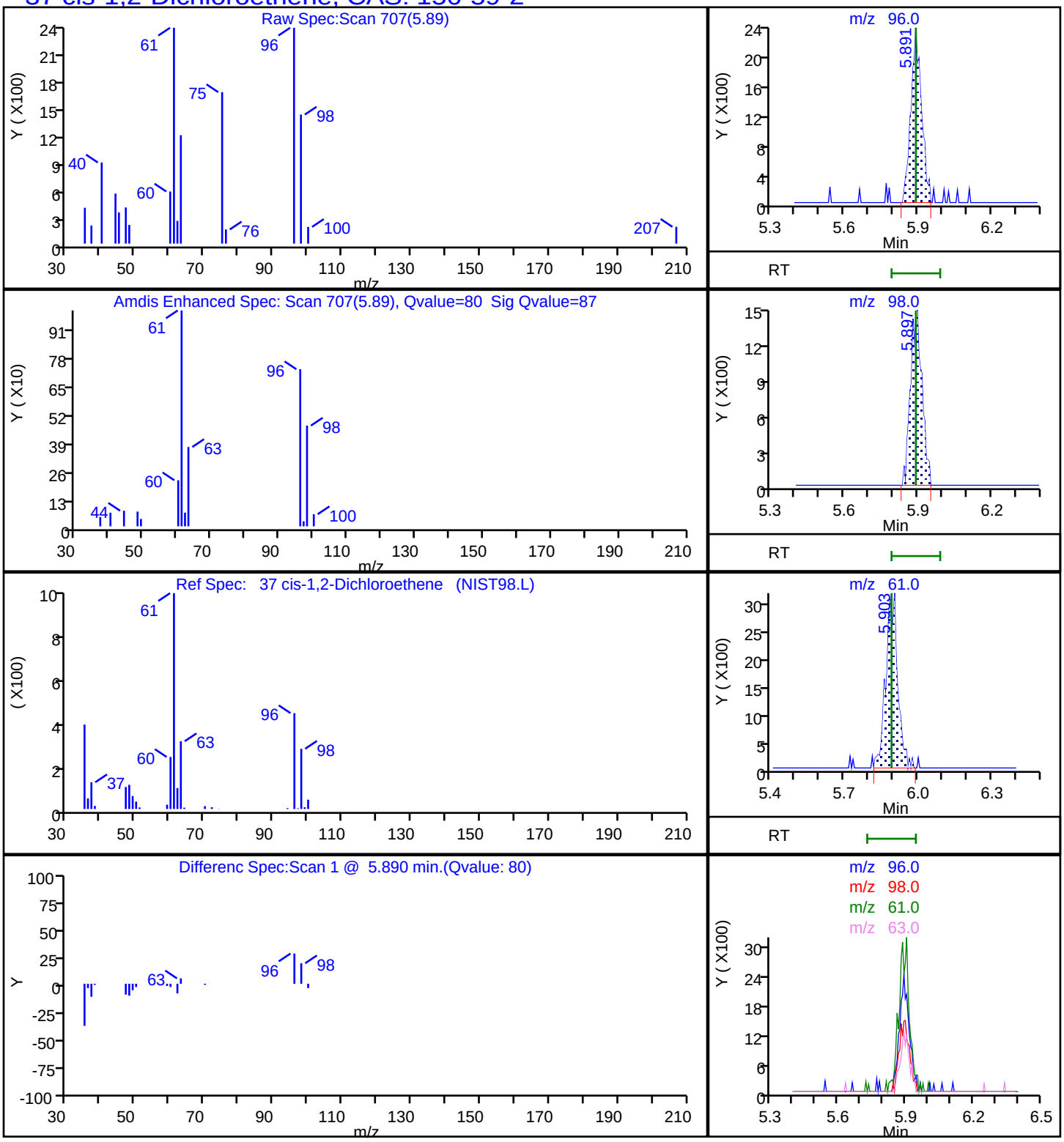
46 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X24.D				
Injection Date:	06-Jul-2021 18:25:30	Instrument ID:	10193		
Lims ID:	410-45147-A-2	Lab Sample ID:	410-45147-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	24	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

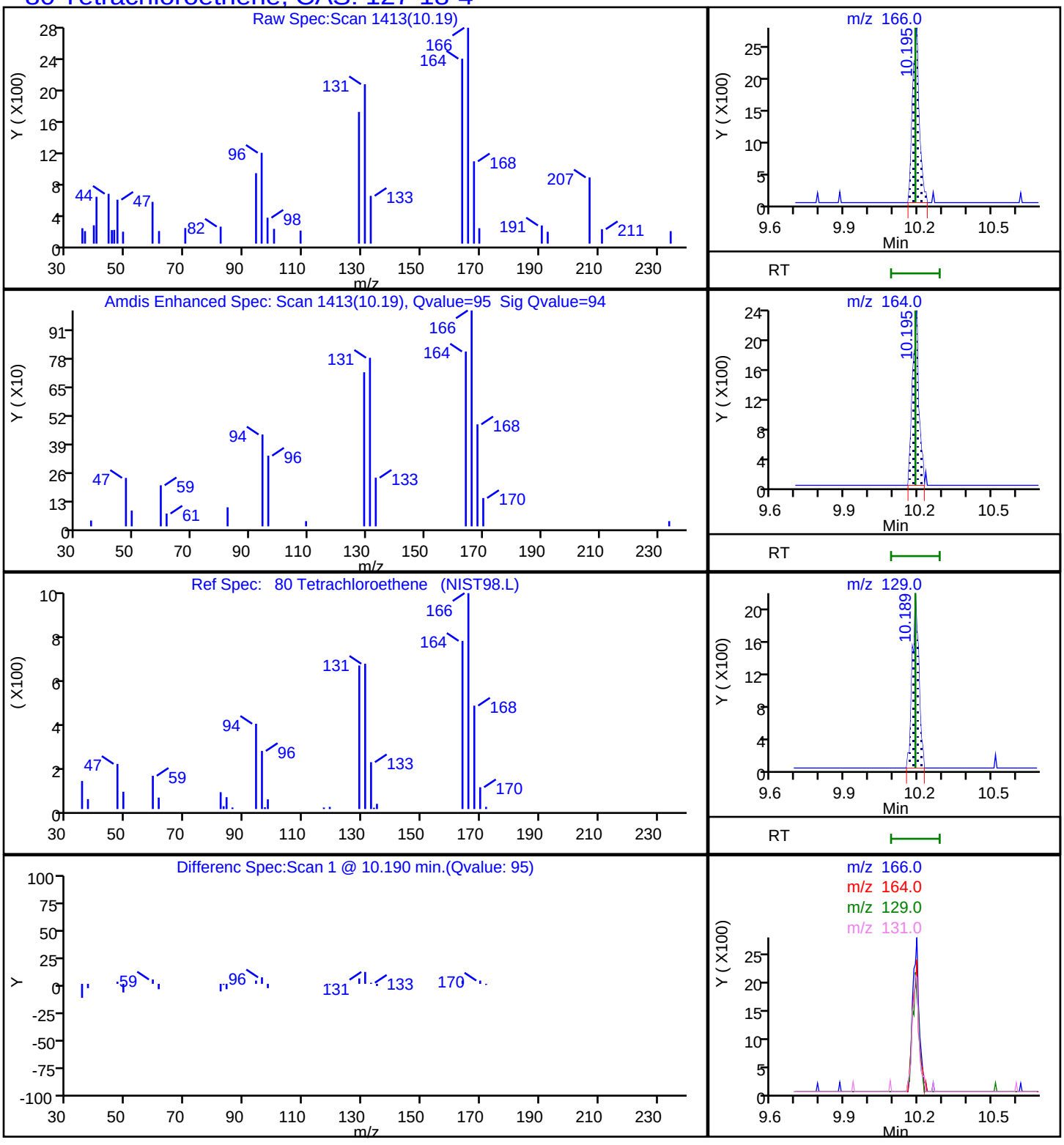
37 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X24.D
Injection Date: 06-Jul-2021 18:25:30 Instrument ID: 10193
Lims ID: 410-45147-A-2 Lab Sample ID: 410-45147-2
Client ID: HD-COD-SW-7-0/1-0
Operator ID: SRK36897 ALS Bottle#: 24 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

80 Tetrachloroethene, CAS: 127-18-4



Report Date: 06-Jul-2021 22:58:01 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X24.D

Injection Date: 06-Jul-2021 18:25:30 Instrument ID: 10193

Lims ID: 410-45147-A-2 Lab Sample ID: 410-45147-2

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

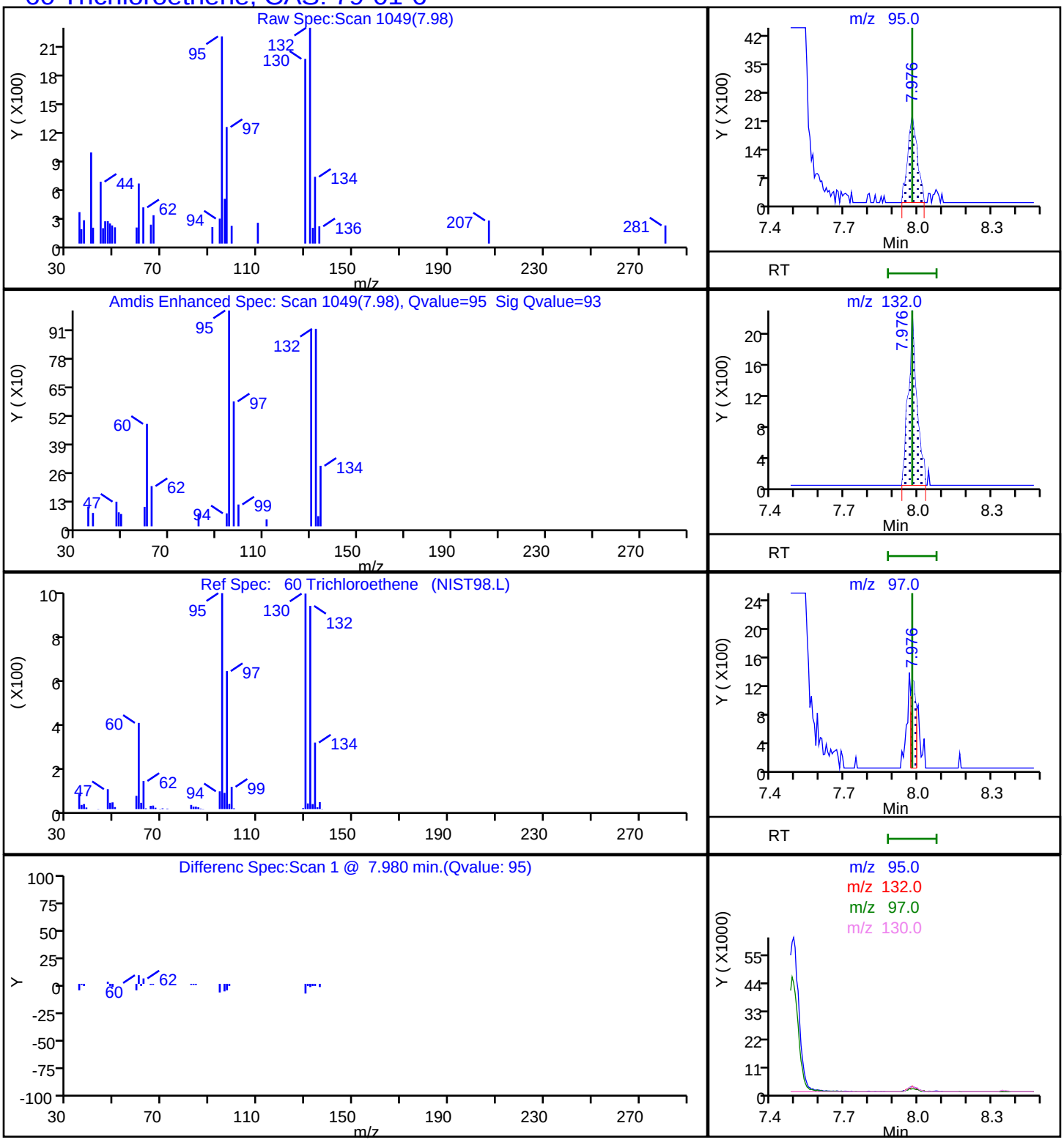
Operator ID: SRK36897 ALS Bottle#: 24 Worklist Smp#: 19

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

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

60 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-8-0/1-0 Lab Sample ID: 410-45147-3

Matrix: Water Lab File ID: CL06X25.D

Analysis Method: 8260D Date Collected: 06/24/2021 09:25

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 18:47

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND	^c	5.0	0.60
591-78-6	2-Hexanone	ND	^c	5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70
67-64-1	Acetone	2.2	J	5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND	*+ ^c	0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.12	J	0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	ND		0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	ND		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-8-0/1-0 Lab Sample ID: 410-45147-3

Matrix: Water Lab File ID: CL06X25.D

Analysis Method: 8260D Date Collected: 06/24/2021 09:25

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 18:47

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND	*+ ^c	0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		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)	100		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X25.D
Lims ID: 410-45147-A-3
Client ID: HD-COD-SW-8-0/1-0
Sample Type: Client
Inject. Date: 06-Jul-2021 18:47:30 ALS Bottle#: 25 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033571-020
Misc. Info.: 410-45147-A-3
Operator ID: SRK36897 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 22:57:35 Calib Date: 13-Apr-2021 23:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: beckerk Date: 06-Jul-2021 22:55:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
3 Chloromethane	50	2.062	2.081	-0.019	94	3500	0.0505	
5 Vinyl chloride	62		2.184				ND	7
6 Bromomethane	94		2.495				ND	
7 Chloroethane	64		2.568				ND	7
14 1,1-Dichloroethene	96		3.373				ND	
16 Acetone	43	3.391	3.403	-0.012	97	19411	2.16	
20 Carbon disulfide	76		3.684				ND	7
24 Methylene Chloride	84		3.989				ND	7
* 25 t-Butyl alcohol-d10 (IS)	65	3.995	4.044	-0.049	95	194401	50.0	
28 Methyl tert-butyl ether	73		4.373				ND	7
29 trans-1,2-Dichloroethene	96		4.379				ND	
32 1,1-Dichloroethane	63		5.049				ND	
36 2-Butanone (MEK)	43		5.860				ND	
37 cis-1,2-Dichloroethene	96	5.885	5.891	-0.006	80	7799	0.1241	
44 Chlorobromomethane	128		6.226				ND	
46 Chloroform	83		6.378				ND	
$ 47 Dibromofluoromethane (Surr)	113	6.586	6.598	-0.012	93	498716	9.92	
48 1,1,1-Trichloroethane	97		6.598				ND	
50 Carbon tetrachloride	117		6.805				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.043	7.055	-0.012	99	106051	10.2	
54 Benzene	78		7.080				ND	7
55 1,2-Dichloroethane	62		7.159				ND	7
* 57 Fluorobenzene (IS)	96	7.482	7.494	-0.012	98	2122522	10.0	
60 Trichloroethene	95		7.976				ND	
62 1,2-Dichloropropane	63		8.305				ND	
67 Dichlorobromomethane	83		8.665				ND	7
72 cis-1,3-Dichloropropene	75		9.225				ND	
73 4-Methyl-2-pentanone (MIBK)	43		9.414				ND	7
$ 74 Toluene-d8 (Surr)	98	9.543	9.542	0.001	94	2141834	10.0	
75 Toluene	92	9.622	9.622	0.000	97	8124	0.0521	
76 trans-1,3-Dichloropropene	75		9.896				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
79 1,1,2-Trichloroethane	97		10.103				ND	
80 Tetrachloroethene	166	10.195	10.189	0.006	93	2862	0.0433	
82 2-Hexanone	43		10.335				ND	7
83 Chlorodibromomethane	129		10.487				ND	
84 Ethylene Dibromide	107		10.597				ND	
* 85 Chlorobenzene-d5 (IS)	117	11.042	11.042	0.000	88	1597204	10.0	
87 Chlorobenzene	112		11.067				ND	
89 1,1,1,2-Tetrachloroethane	131		11.152				ND	
90 Ethylbenzene	91		11.158				ND	7
S 88 Xylenes, Total	106		11.245				ND	7
91 m-Xylene & p-Xylene	106		11.274				ND	7
92 o-Xylene	106		11.609				ND	7
93 Styrene	104		11.627				ND	
94 Bromoform	173		11.786				ND	7
$ 98 4-Bromofluorobenzene (Surr)	95	12.060	12.060	0.000	88	790066	9.65	
99 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 113 1,4-Dichlorobenzene-d4	152	12.957	12.956	0.001	96	889489	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP25_ISSS_00029 Amount Added: 1.00 Units: uL Run Reagent

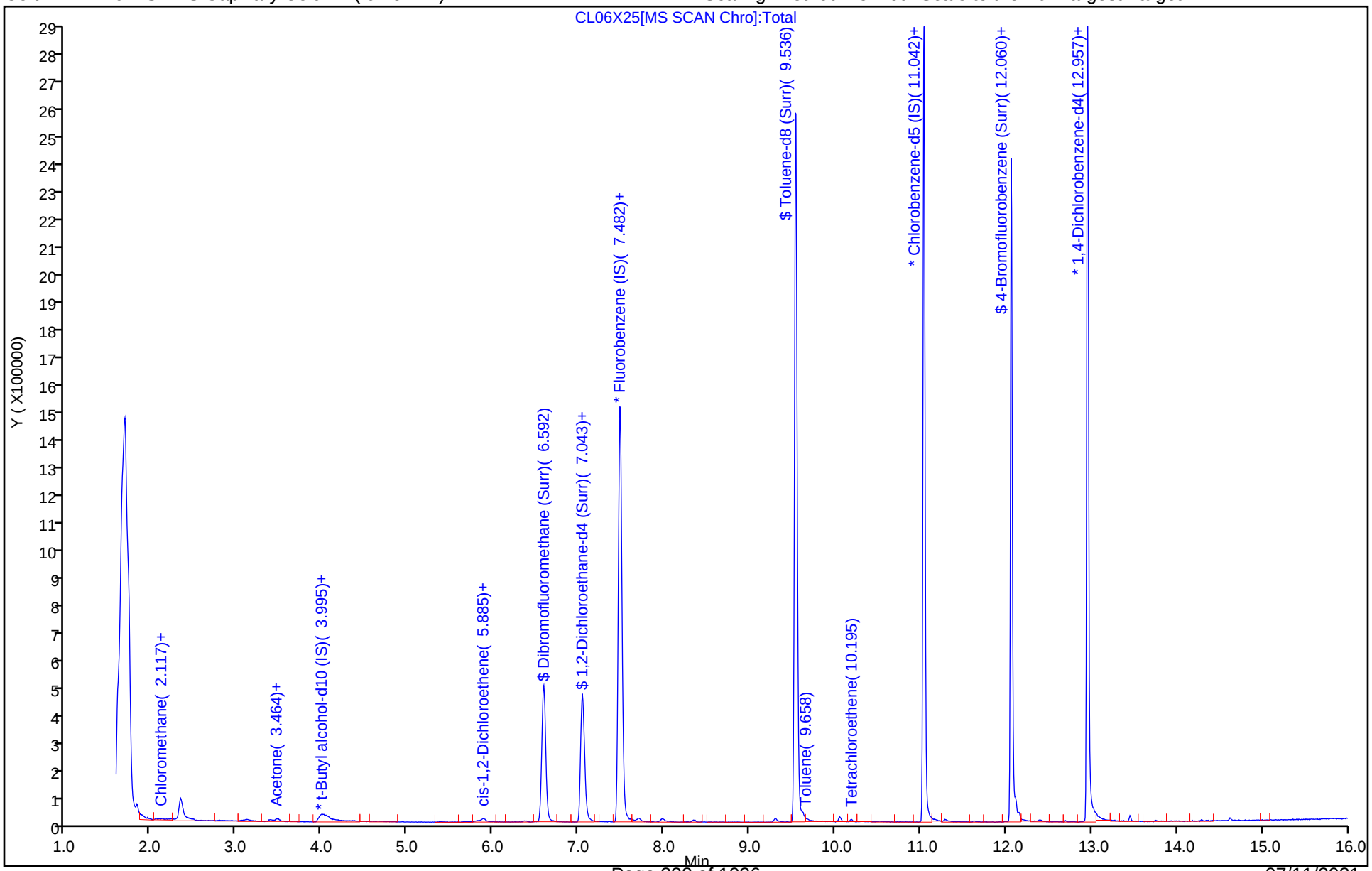
Report Date: 06-Jul-2021 22:58:03 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X25.D

Injection Date:	06-Jul-2021 18:47:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	410-45147-A-3	Lab Sample ID:	410-45147-3	Worklist Smp#:	20
Client ID:	HD-COD-SW-8-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

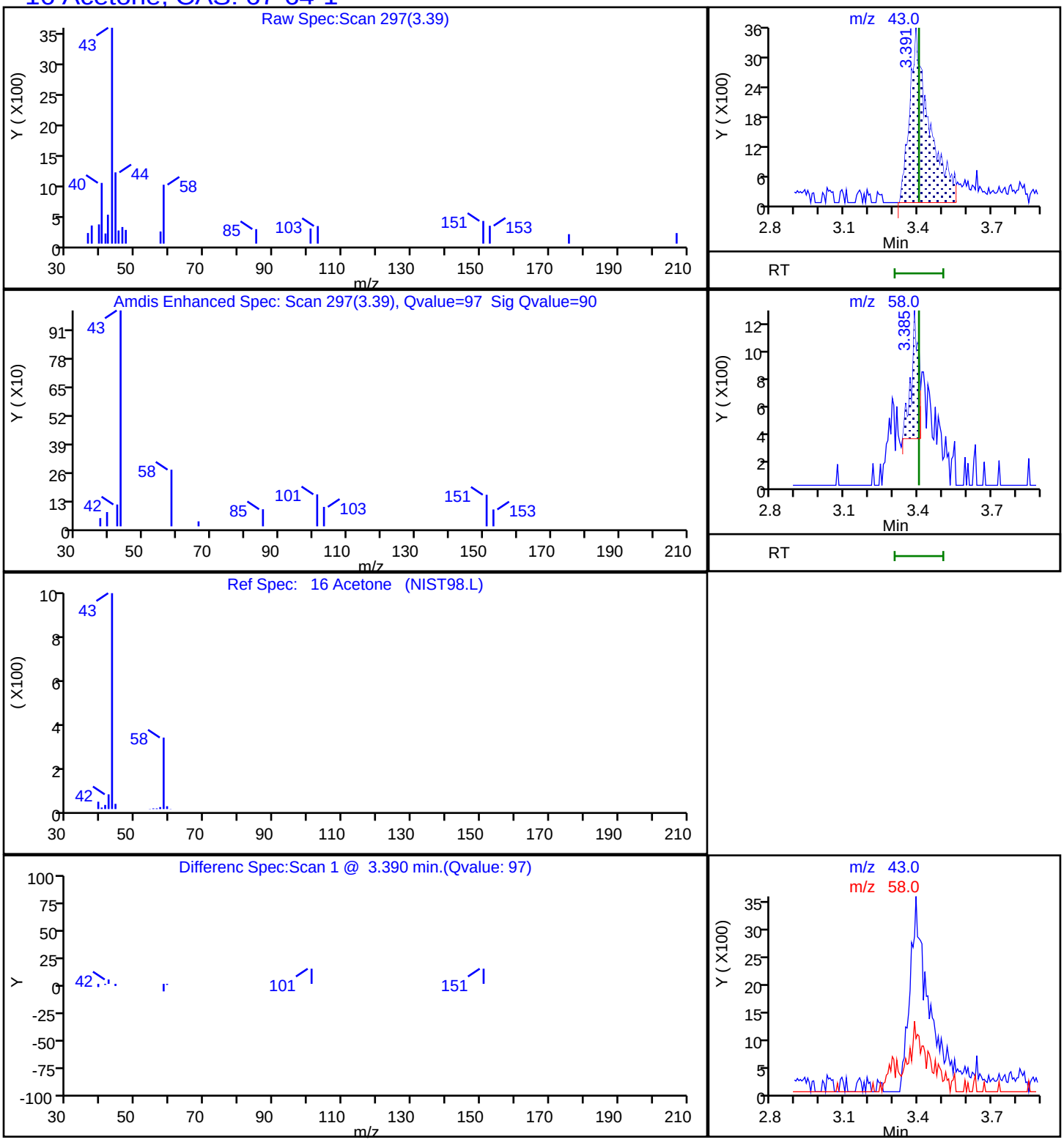
Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X25.D				
Lims ID:	410-45147-A-3				
Client ID:	HD-COD-SW-8-0/1-0				
Sample Type:	Client				
Inject. Date:	06-Jul-2021 18:47:30	ALS Bottle#:	25	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0033571-020				
Misc. Info.:	410-45147-A-3				
Operator ID:	SRK36897	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Jul-2021 22:57:35	Calib Date:	13-Apr-2021 23:14:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1659				
First Level Reviewer: beckerk		Date:	06-Jul-2021 22:55:07		

Compound	Amount Added	Amount Recovered	% Rec.
$ 47 Dibromofluoromethane (Surr)	10.0	9.92	99.24
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.46
$ 74 Toluene-d8 (Surr)	10.0	10.0	100.24
$ 98 4-Bromofluorobenzene (Surr)	10.0	9.65	96.54

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X25.D				
Injection Date:	06-Jul-2021 18:47:30	Instrument ID:	10193		
Lims ID:	410-45147-A-3	Lab Sample ID:	410-45147-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	25	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

16 Acetone, CAS: 67-64-1



Report Date: 06-Jul-2021 22:58:03 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X25.D

Injection Date: 06-Jul-2021 18:47:30 Instrument ID: 10193

Lims ID: 410-45147-A-3 Lab Sample ID: 410-45147-3

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

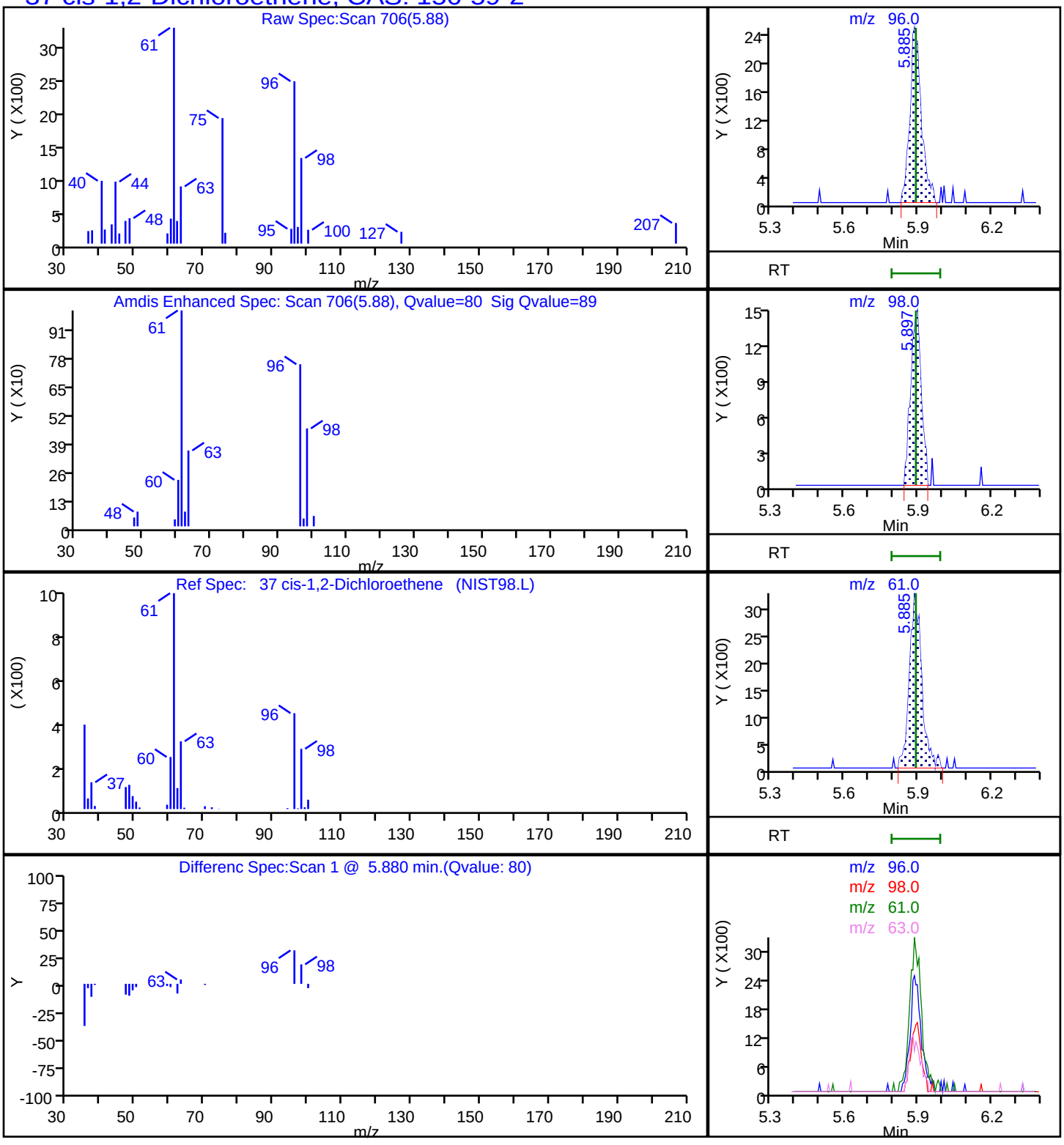
Operator ID: SRK36897 ALS Bottle#: 25 Worklist Smp#: 20

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

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

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



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-9-0/1-0 Lab Sample ID: 410-45147-4

Matrix: Water Lab File ID: CL06X26.D

Analysis Method: 8260D Date Collected: 06/24/2021 12:30

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 19:09

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	2.3	J ^c	5.0	0.60
591-78-6	2-Hexanone	ND	^c	5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70
67-64-1	Acetone	6.3		5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	0.064	J	1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	0.10	J	0.50	0.090
74-87-3	Chloromethane	ND	*+ ^c	0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.11	J	0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	0.085	J	0.50	0.060
108-88-3	Toluene	0.15	J	0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	ND		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-9-0/1-0 Lab Sample ID: 410-45147-4

Matrix: Water Lab File ID: CL06X26.D

Analysis Method: 8260D Date Collected: 06/24/2021 12:30

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 19:09

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND	*+ ^c	0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X26.D
Lims ID: 410-45147-A-4
Client ID: HD-COD-SW-9-0/1-0
Sample Type: Client
Inject. Date: 06-Jul-2021 19:09:30 ALS Bottle#: 26 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033571-021
Misc. Info.: 410-45147-A-4
Operator ID: SRK36897 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2021 12:49:22 Calib Date: 13-Apr-2021 23:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1661

First Level Reviewer: innoonk Date: 07-Jul-2021 12:49:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
3 Chloromethane	50	2.075	2.081	-0.007	13	3498	0.0495	
5 Vinyl chloride	62		2.184				ND	
6 Bromomethane	94		2.495				ND	
7 Chloroethane	64		2.568				ND	7
14 1,1-Dichloroethene	96		3.373				ND	7
16 Acetone	43	3.416	3.403	0.013	93	37444	6.34	
20 Carbon disulfide	76	3.678	3.684	-0.006	94	10850	0.0640	M
24 Methylene Chloride	84		3.989				ND	7
* 25 t-Butyl alcohol-d10 (IS)	65	4.050	4.044	0.006	95	127776	50.0	
28 Methyl tert-butyl ether	73		4.373				ND	7
29 trans-1,2-Dichloroethene	96		4.379				ND	
32 1,1-Dichloroethane	63		5.049				ND	
36 2-Butanone (MEK)	43	5.909	5.860	0.049	97	27010	2.25	a
37 cis-1,2-Dichloroethene	96	5.897	5.891	0.006	78	7099	0.1108	
44 Chlorobromomethane	128		6.226				ND	
46 Chloroform	83	6.385	6.378	0.007	94	10480	0.1016	
$ 47 Dibromofluoromethane (Surr)	113	6.592	6.598	-0.006	93	504491	9.85	
48 1,1,1-Trichloroethane	97		6.598				ND	
50 Carbon tetrachloride	117		6.805				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.043	7.055	-0.012	100	108423	10.3	
54 Benzene	78		7.080				ND	7
55 1,2-Dichloroethane	62		7.159				ND	
* 57 Fluorobenzene (IS)	96	7.488	7.494	-0.006	98	2163189	10.0	
60 Trichloroethene	95		7.976				ND	
62 1,2-Dichloropropane	63		8.305				ND	
67 Dichlorobromomethane	83		8.665				ND	7
72 cis-1,3-Dichloropropene	75		9.225				ND	
73 4-Methyl-2-pentanone (MIBK)	43		9.414				ND	7
$ 74 Toluene-d8 (Surr)	98	9.543	9.542	0.001	94	2159314	9.93	
75 Toluene	92	9.622	9.622	0.000	97	24162	0.1521	
76 trans-1,3-Dichloropropene	75		9.896				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
79 1,1,2-Trichloroethane	97		10.103				ND	
80 Tetrachloroethene	166	10.189	10.189	0.000	95	5719	0.0850	
82 2-Hexanone	43		10.335				ND	7
83 Chlorodibromomethane	129		10.487				ND	
84 Ethylene Dibromide	107		10.597				ND	
* 85 Chlorobenzene-d5 (IS)	117	11.042	11.042	0.000	88	1626318	10.0	
87 Chlorobenzene	112		11.067				ND	
89 1,1,1,2-Tetrachloroethane	131		11.152				ND	
90 Ethylbenzene	91		11.158				ND	7
S 88 Xylenes, Total	106				0		0.1394	
91 m-Xylene & p-Xylene	106	11.280	11.274	0.006	98	11058	0.0920	
92 o-Xylene	106	11.621	11.609	0.012	93	5661	0.0473	
93 Styrene	104		11.627				ND	7
94 Bromoform	173		11.786				ND	
$ 98 4-Bromofluorobenzene (Surr)	95	12.060	12.060	0.000	88	803484	9.64	
99 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 113 1,4-Dichlorobenzene-d4	152	12.957	12.956	0.001	96	896007	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_HP25_ISSS_00029 Amount Added: 1.00 Units: uL Run Reagent

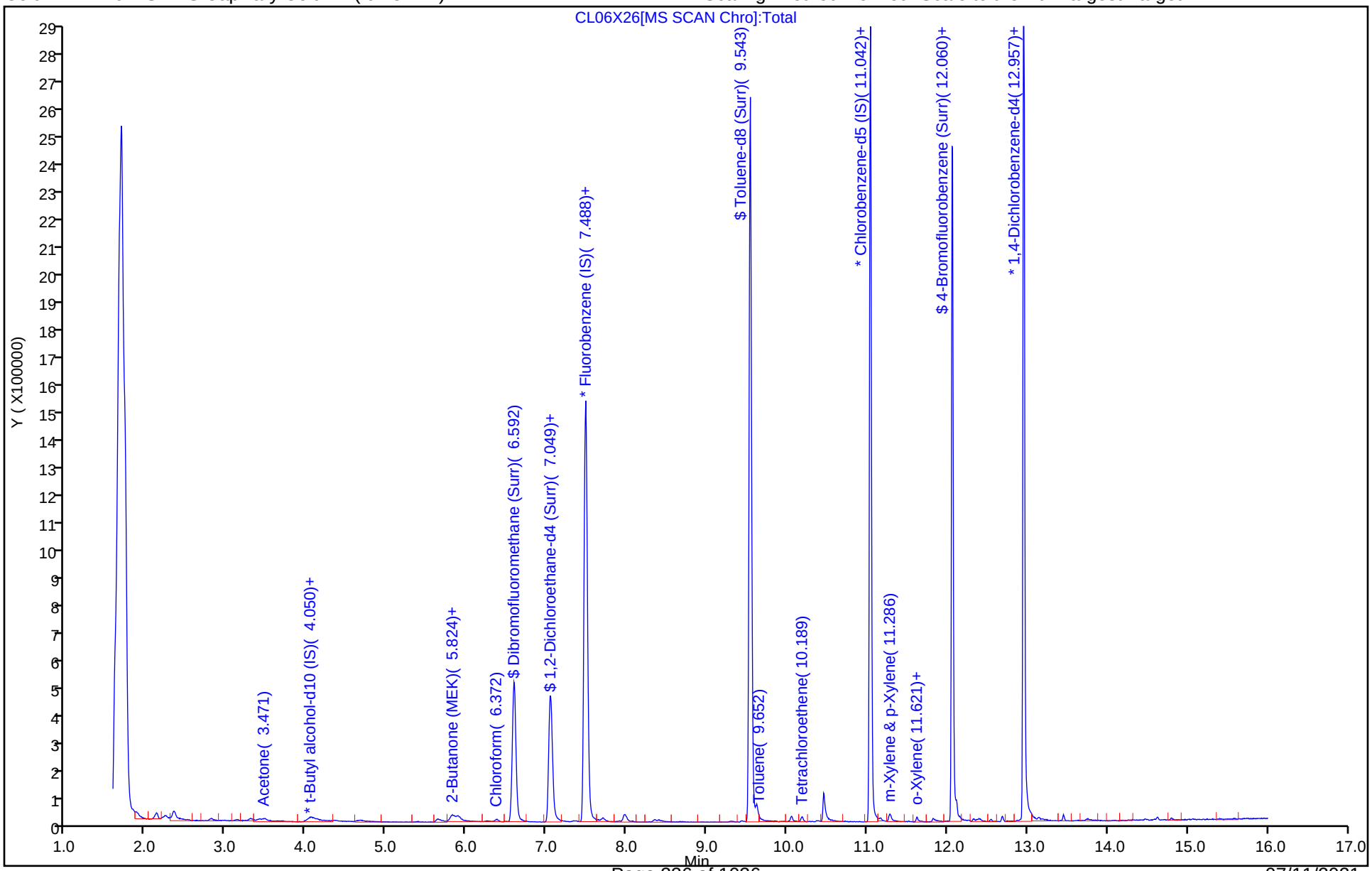
Report Date: 07-Jul-2021 12:49:23 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X26.D

Injection Date:	06-Jul-2021 19:09:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	410-45147-A-4	Lab Sample ID:	410-45147-4	Worklist Smp#:	21
Client ID:	HD-COD-SW-9-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

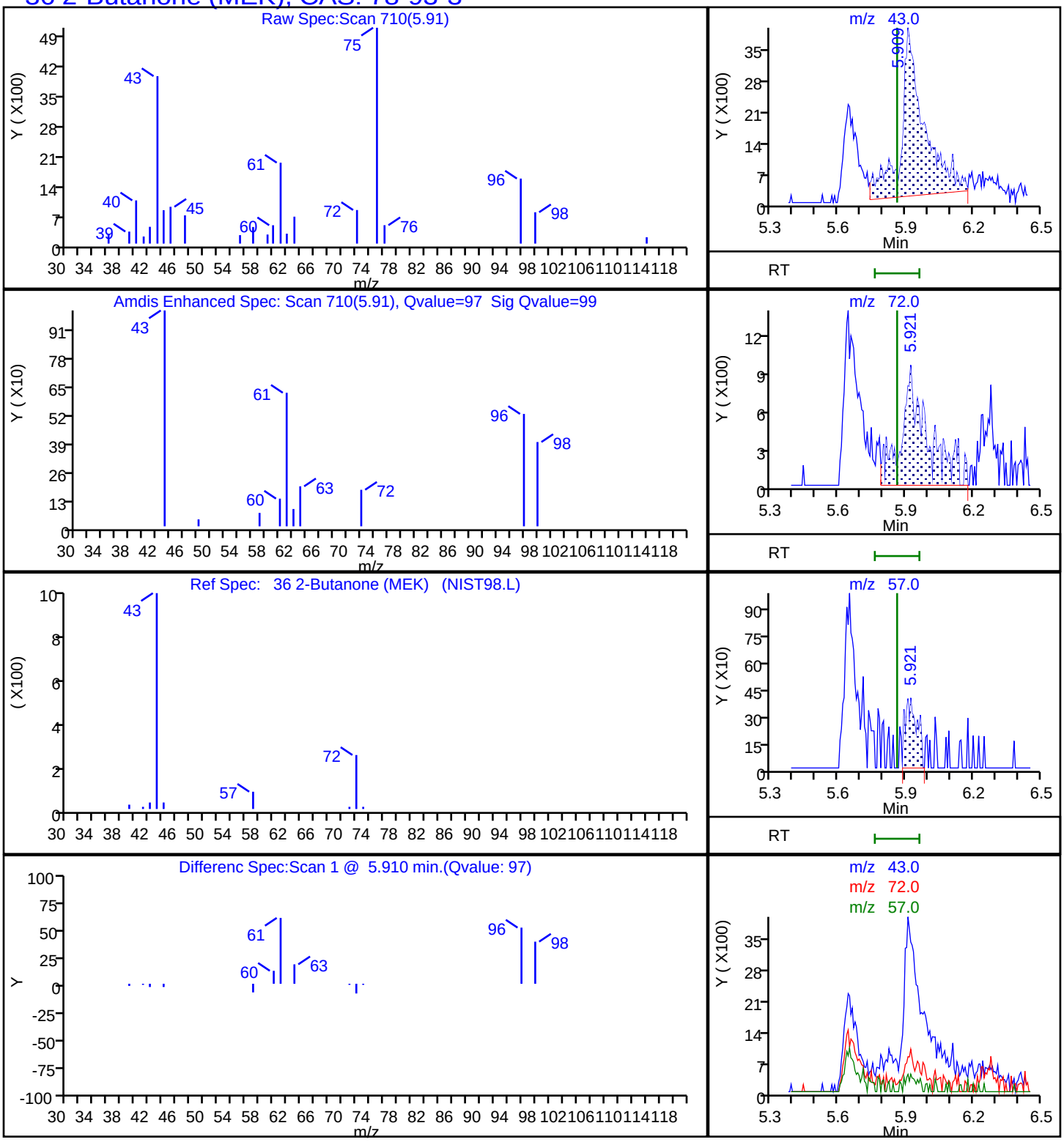
Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X26.D				
Lims ID:	410-45147-A-4				
Client ID:	HD-COD-SW-9-0/1-0				
Sample Type:	Client				
Inject. Date:	06-Jul-2021 19:09:30	ALS Bottle#:	26	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0033571-021				
Misc. Info.:	410-45147-A-4				
Operator ID:	SRK36897	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Jul-2021 12:49:22	Calib Date:	13-Apr-2021 23:14:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1661				
First Level Reviewer: innoonk		Date:	07-Jul-2021 12:49:22		

Compound	Amount Added	Amount Recovered	% Rec.
$ 47 Dibromofluoromethane (Surr)	10.0	9.85	98.50
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	102.78
$ 74 Toluene-d8 (Surr)	10.0	9.93	99.25
$ 98 4-Bromofluorobenzene (Surr)	10.0	9.64	96.42

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X26.D				
Injection Date:	06-Jul-2021 19:09:30	Instrument ID:	10193		
Lims ID:	410-45147-A-4	Lab Sample ID:	410-45147-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	26	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

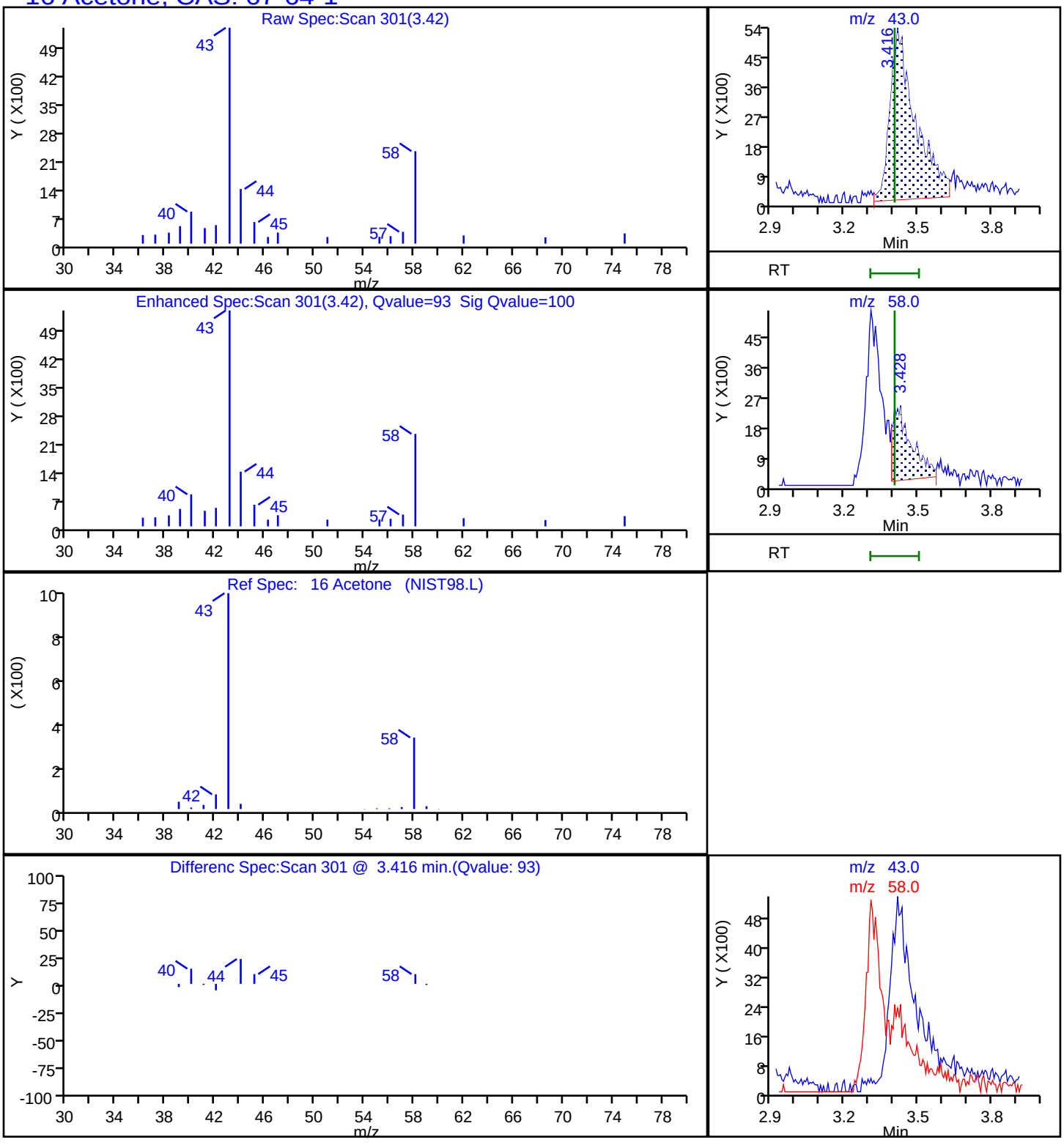
36 2-Butanone (MEK), CAS: 78-93-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X26.D				
Injection Date:	06-Jul-2021 19:09:30	Instrument ID:	10193		
Lims ID:	410-45147-A-4	Lab Sample ID:	410-45147-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	26	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

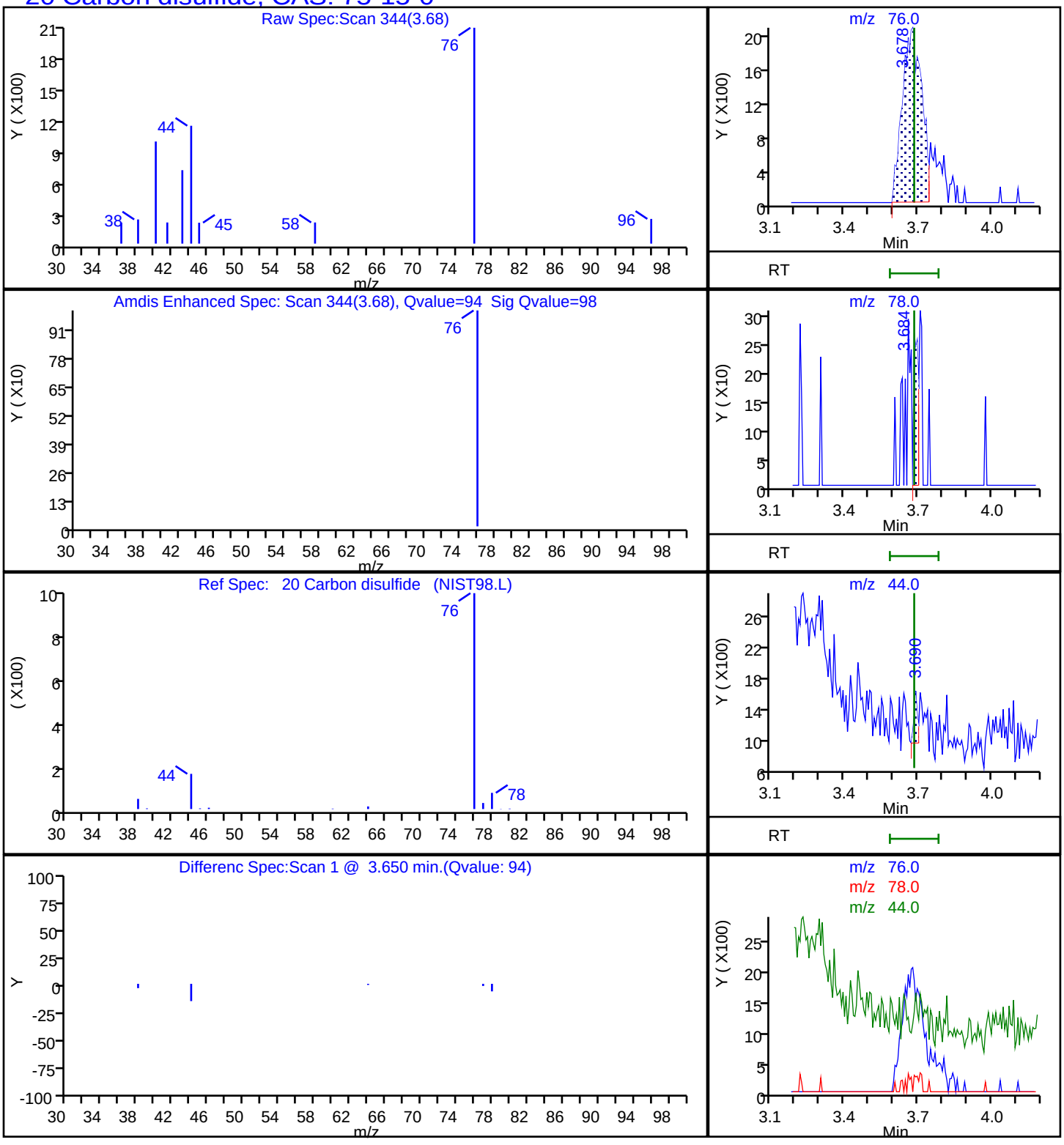
16 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X26.D				
Injection Date:	06-Jul-2021 19:09:30	Instrument ID:	10193		
Lims ID:	410-45147-A-4	Lab Sample ID:	410-45147-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	26	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

20 Carbon disulfide, CAS: 75-15-0



Report Date: 07-Jul-2021 12:49:23 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X26.D

Injection Date: 06-Jul-2021 19:09:30 Instrument ID: 10193

Lims ID: 410-45147-A-4 Lab Sample ID: 410-45147-4

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

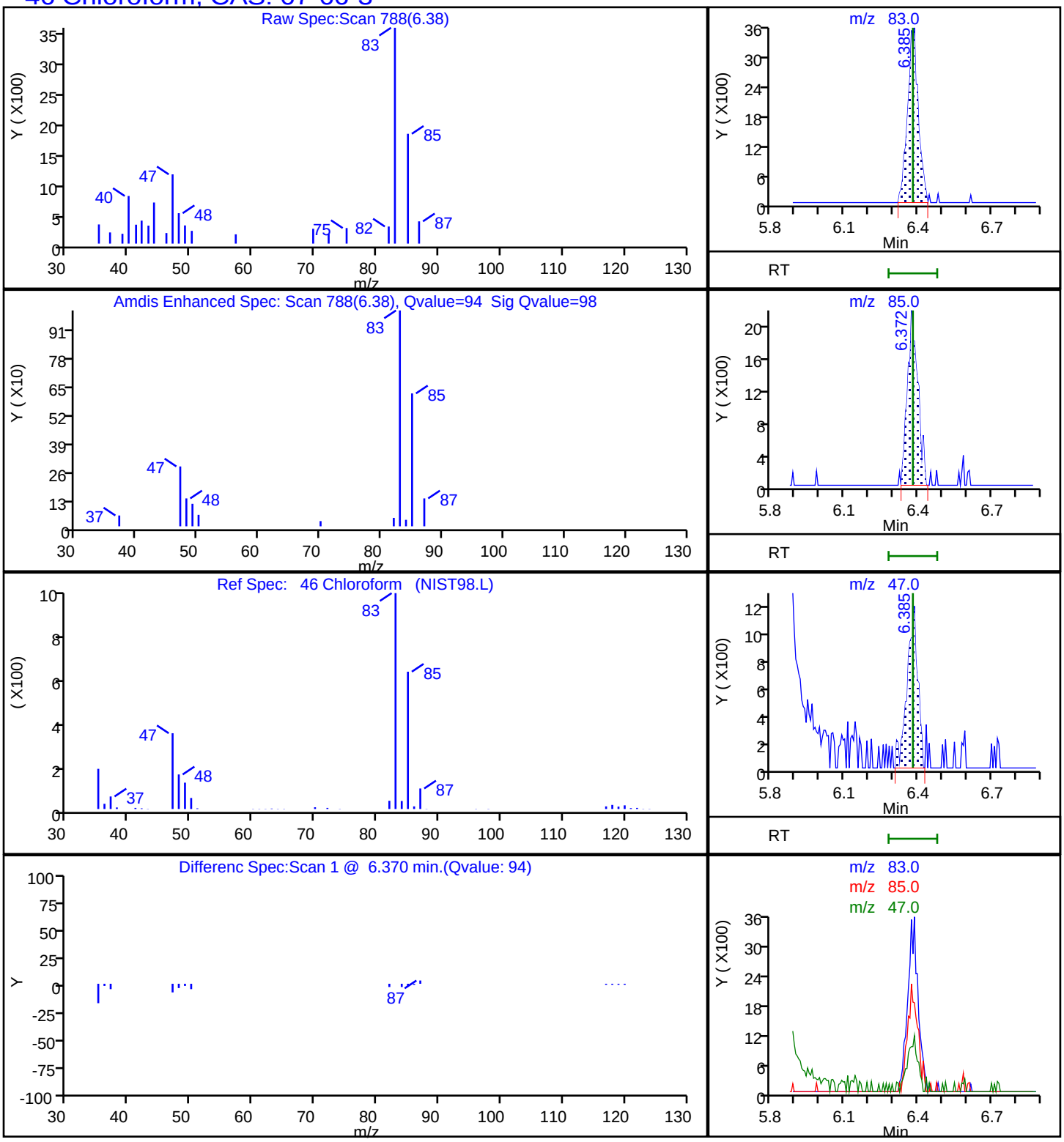
Operator ID: SRK36897 ALS Bottle#: 26 Worklist Smp#: 21

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

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

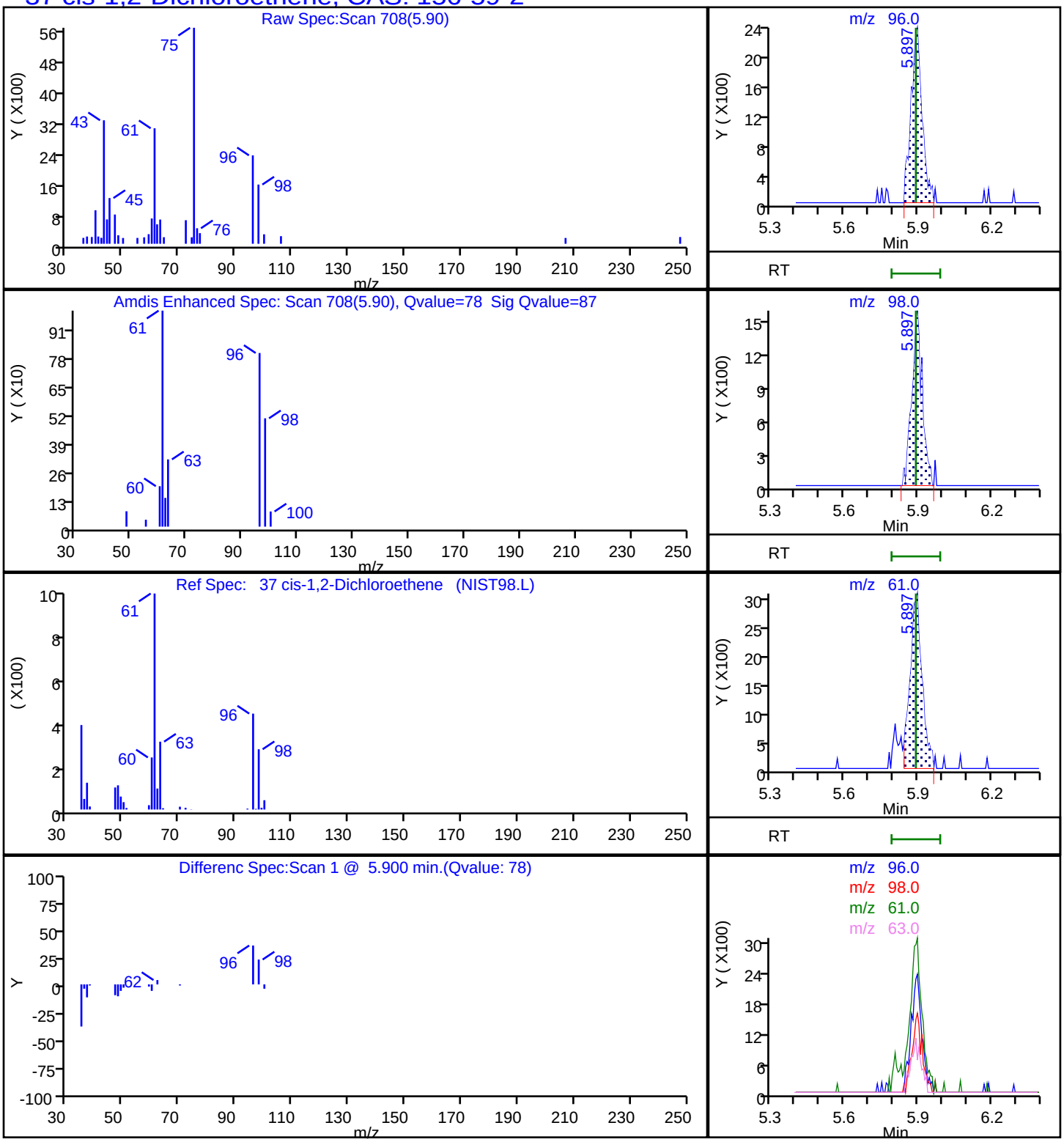
46 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X26.D				
Injection Date:	06-Jul-2021 19:09:30	Instrument ID:	10193		
Lims ID:	410-45147-A-4	Lab Sample ID:	410-45147-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	26	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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



Report Date: 07-Jul-2021 12:49:23 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X26.D

Injection Date: 06-Jul-2021 19:09:30 Instrument ID: 10193

Lims ID: 410-45147-A-4 Lab Sample ID: 410-45147-4

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

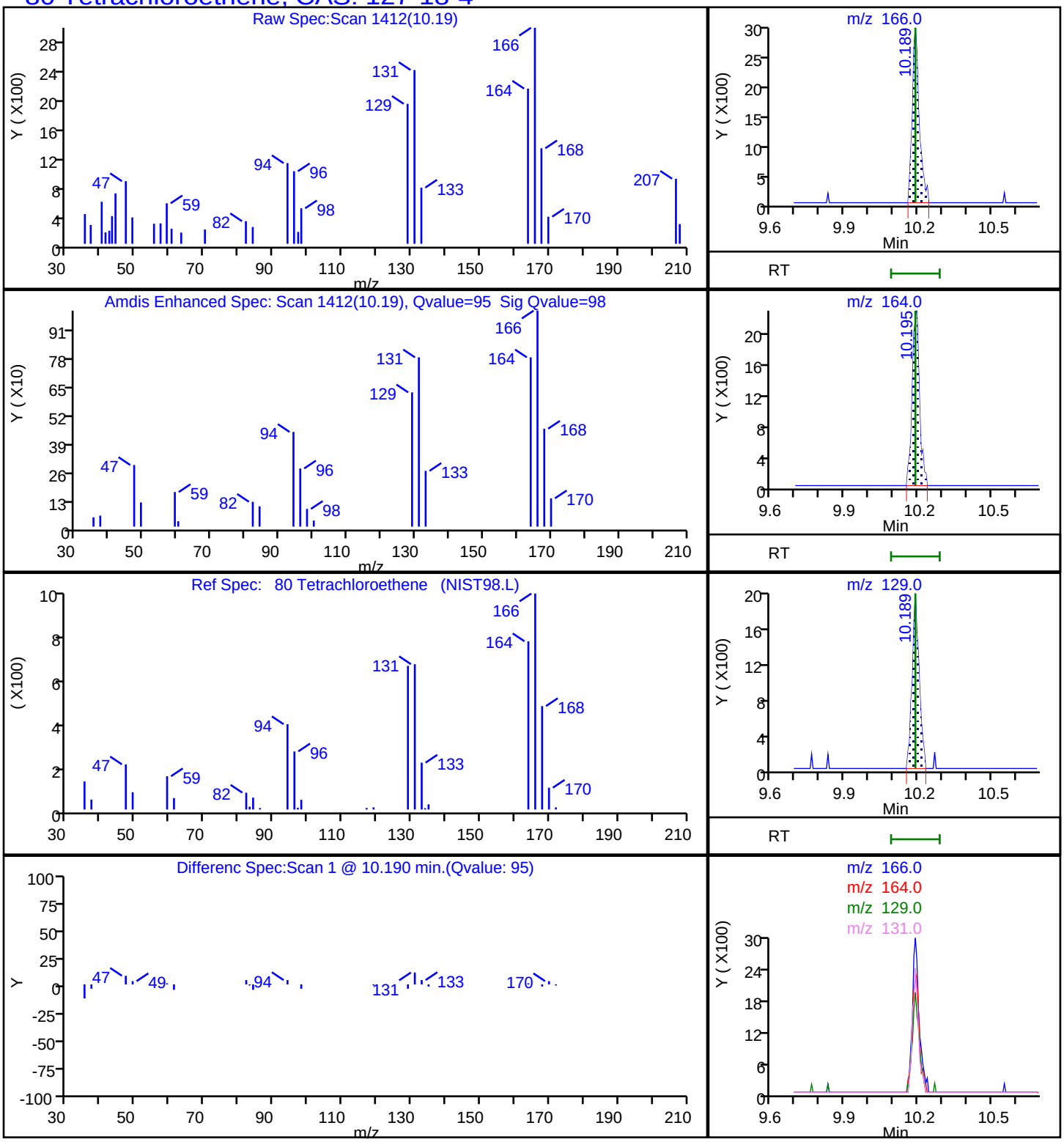
Operator ID: SRK36897 ALS Bottle#: 26 Worklist Smp#: 21

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

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

80 Tetrachloroethene, CAS: 127-18-4



Report Date: 07-Jul-2021 12:49:23 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X26.D

Injection Date: 06-Jul-2021 19:09:30 Instrument ID: 10193

Lims ID: 410-45147-A-4 Lab Sample ID: 410-45147-4

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

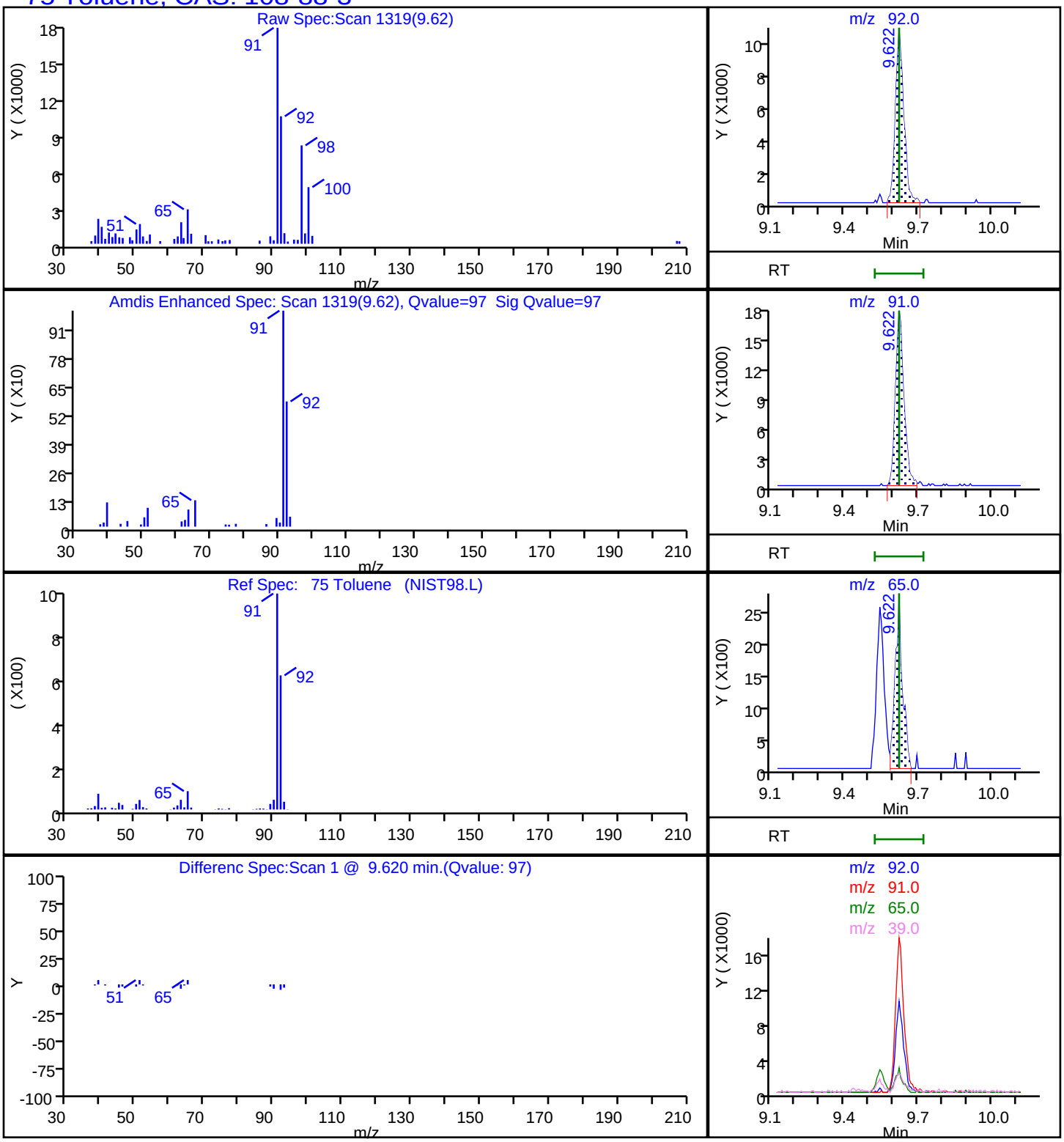
Operator ID: SRK36897 ALS Bottle#: 26 Worklist Smp#: 21

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

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

75 Toluene, CAS: 108-88-3



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

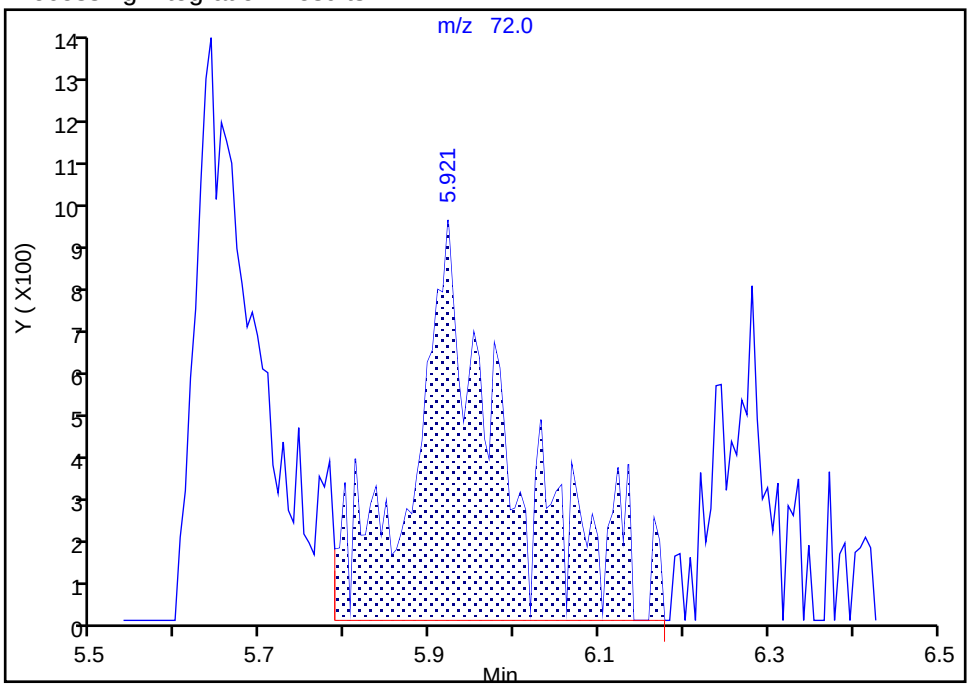
Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X26.D				
Injection Date:	06-Jul-2021 19:09:30	Instrument ID:	10193		
Lims ID:	410-45147-A-4	Lab Sample ID:	410-45147-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	26	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

36 2-Butanone (MEK), CAS: 78-93-3

Signal: 2

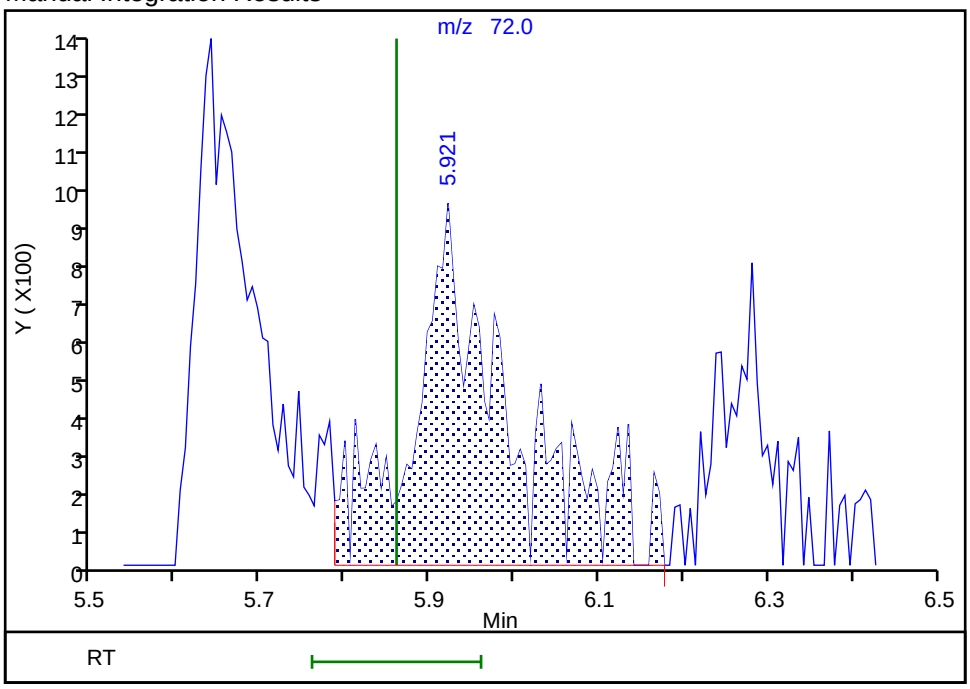
Processing Integration Results

RT: 5.92
Area: 7592
Amount: 2.251783
Amount Units: ug/l



Manual Integration Results

RT: 5.92
Area: 7592
Amount: 2.251783
Amount Units: ug/l



Reviewer: beckerk, 06-Jul-2021 22:55:41

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

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

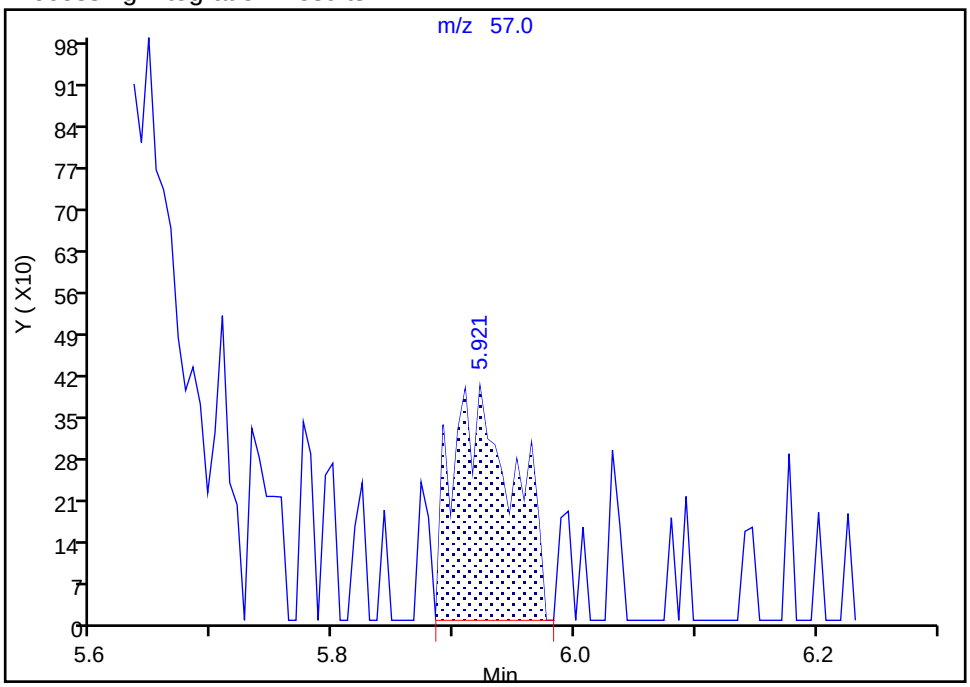
Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X26.D				
Injection Date:	06-Jul-2021 19:09:30	Instrument ID:	10193		
Lims ID:	410-45147-A-4	Lab Sample ID:	410-45147-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	26	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

36 2-Butanone (MEK), CAS: 78-93-3

Signal: 3

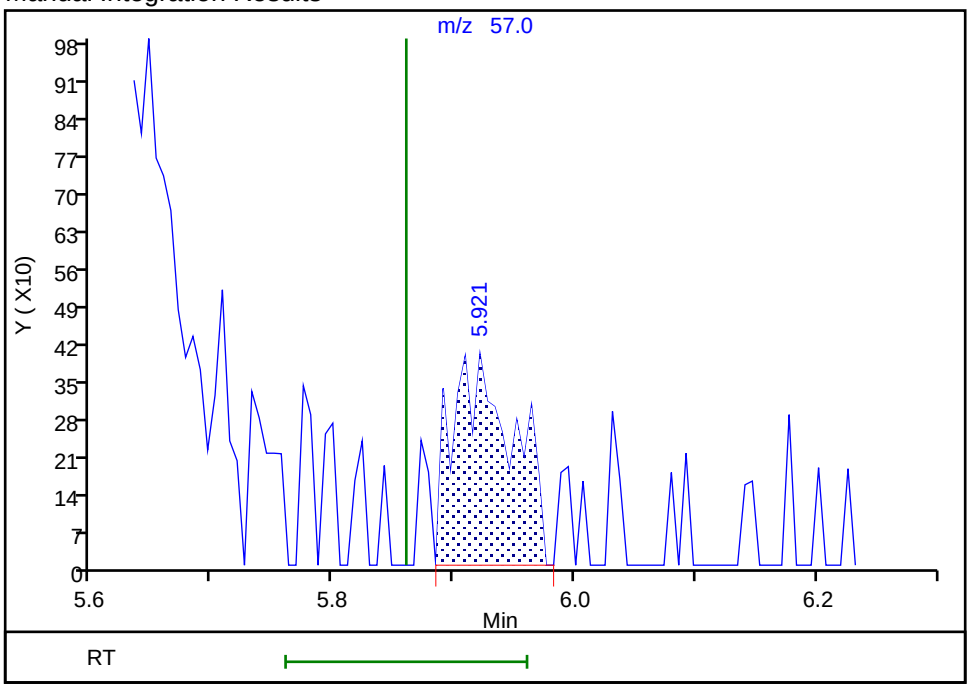
Processing Integration Results

RT: 5.92
Area: 1391
Amount: 2.251783
Amount Units: ug/l



Manual Integration Results

RT: 5.92
Area: 1391
Amount: 2.251783
Amount Units: ug/l



Reviewer: beckerk, 06-Jul-2021 22:55:41
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

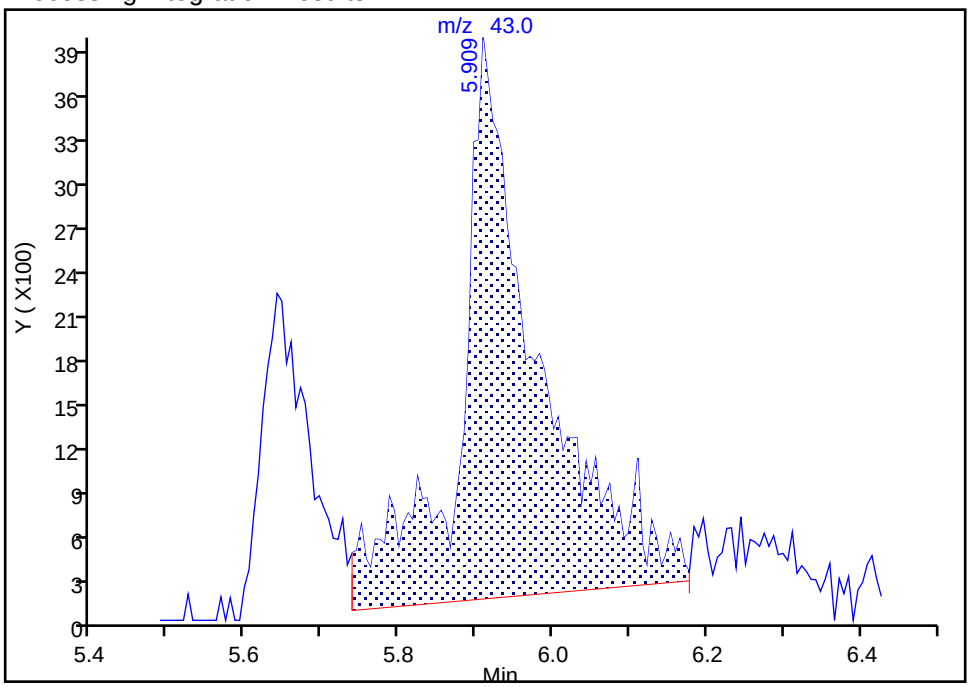
Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X26.D				
Injection Date:	06-Jul-2021 19:09:30	Instrument ID:	10193		
Lims ID:	410-45147-A-4	Lab Sample ID:	410-45147-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	26	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

36 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

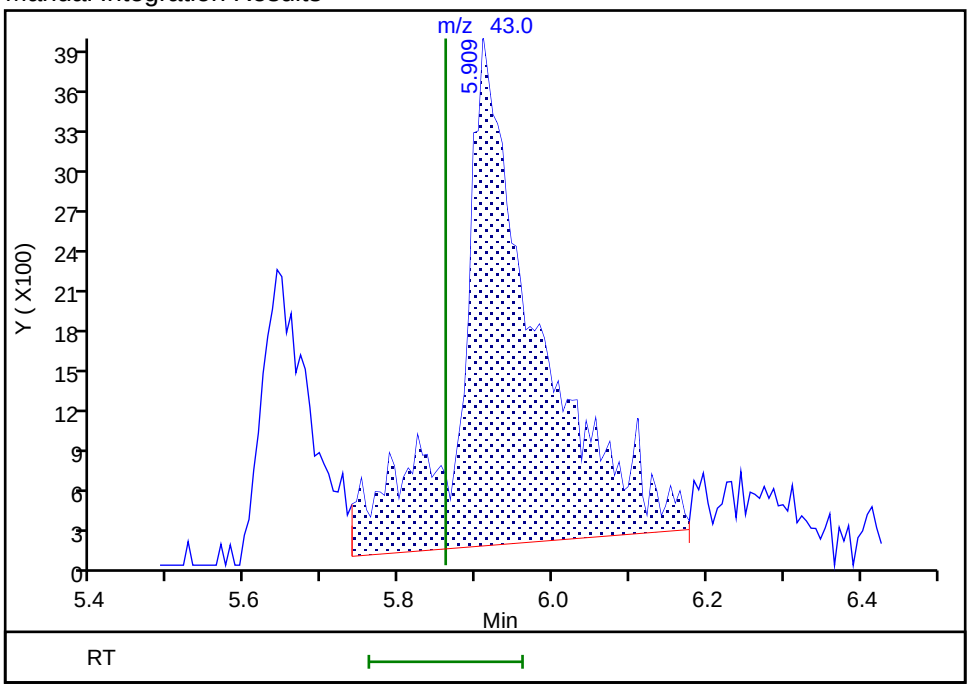
Processing Integration Results

RT: 5.91
Area: 27010
Amount: 2.251783
Amount Units: ug/l



Manual Integration Results

RT: 5.91
Area: 27010
Amount: 2.251783
Amount Units: ug/l



Reviewer: innoonk, 07-Jul-2021 12:49:00
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

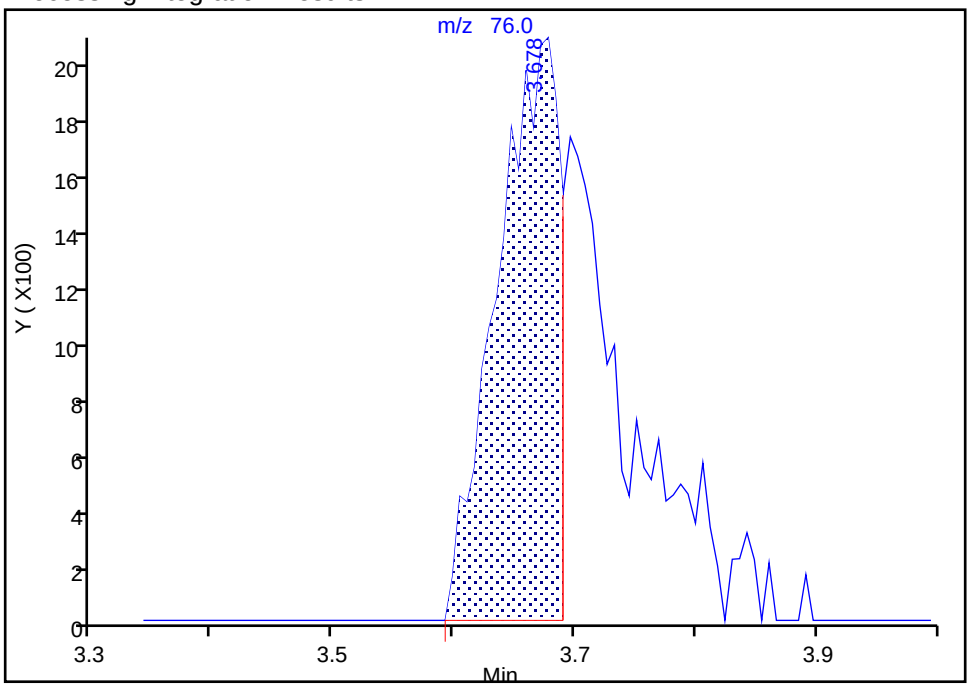
Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X26.D				
Injection Date:	06-Jul-2021 19:09:30	Instrument ID:	10193		
Lims ID:	410-45147-A-4	Lab Sample ID:	410-45147-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	26	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Carbon disulfide, CAS: 75-15-0

Signal: 1

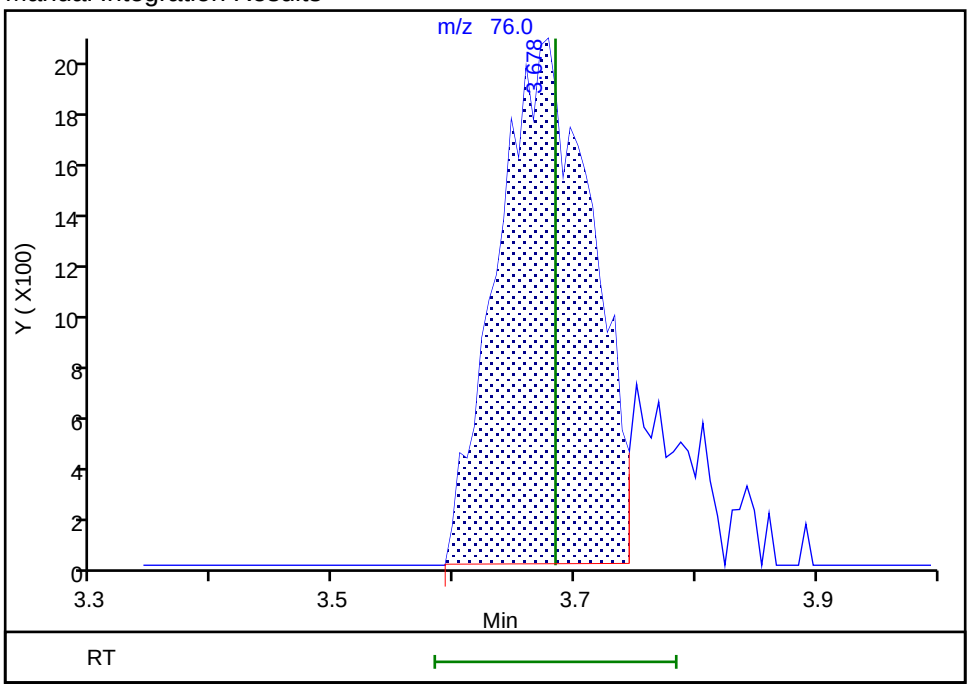
Processing Integration Results

RT: 3.68
Area: 7256
Amount: 0.042806
Amount Units: ug/l



Manual Integration Results

RT: 3.68
Area: 10850
Amount: 0.064008
Amount Units: ug/l



Reviewer: beckerk, 06-Jul-2021 22:55:26
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-13-0/1-0 Lab Sample ID: 410-45147-5

Matrix: Water Lab File ID: CL06X27.D

Analysis Method: 8260D Date Collected: 06/24/2021 09:40

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 19:32

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND	^c	5.0	0.60
591-78-6	2-Hexanone	ND	^c	5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70
67-64-1	Acetone	1.9	J	5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND	*+ ^c	0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.13	J	0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	ND		0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	0.10	J	0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-13-0/1-0 Lab Sample ID: 410-45147-5

Matrix: Water Lab File ID: CL06X27.D

Analysis Method: 8260D Date Collected: 06/24/2021 09:40

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 19:32

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND	*+ ^c	0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		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)	100		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X27.D
Lims ID: 410-45147-A-5
Client ID: HD-COD-SW-13-0/1-0
Sample Type: Client
Inject. Date: 06-Jul-2021 19:32:30 ALS Bottle#: 27 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033571-022
Misc. Info.: 410-45147-A-5
Operator ID: SRK36897 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2021 12:50:14 Calib Date: 13-Apr-2021 23:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1661

First Level Reviewer: beckerk Date: 06-Jul-2021 22:56:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
3 Chloromethane	50	2.062	2.081	-0.019	92	2757	0.0391	
5 Vinyl chloride	62		2.184				ND	7
6 Bromomethane	94		2.495				ND	
7 Chloroethane	64		2.568				ND	7
14 1,1-Dichloroethene	96		3.373				ND	
16 Acetone	43	3.397	3.403	-0.006	80	14092	1.93	
20 Carbon disulfide	76		3.684				ND	7
24 Methylene Chloride	84		3.989				ND	7
* 25 t-Butyl alcohol-d10 (IS)	65	4.001	4.044	-0.043	96	158400	50.0	
28 Methyl tert-butyl ether	73		4.373				ND	
29 trans-1,2-Dichloroethene	96		4.379				ND	
32 1,1-Dichloroethane	63		5.049				ND	
36 2-Butanone (MEK)	43		5.860				ND	
37 cis-1,2-Dichloroethene	96	5.885	5.891	-0.006	82	8043	0.1257	
44 Chlorobromomethane	128		6.226				ND	
46 Chloroform	83	6.385	6.378	0.007	93	5418	0.0526	
$ 47 Dibromofluoromethane (Surr)	113	6.592	6.598	-0.006	93	506289	9.90	
48 1,1,1-Trichloroethane	97		6.598				ND	
50 Carbon tetrachloride	117		6.805				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.043	7.055	-0.012	99	107690	10.2	
54 Benzene	78		7.080				ND	U
55 1,2-Dichloroethane	62		7.159				ND	
* 57 Fluorobenzene (IS)	96	7.482	7.494	-0.012	98	2160025	10.0	
60 Trichloroethene	95	7.970	7.976	-0.006	94	6382	0.1032	M
62 1,2-Dichloropropane	63		8.305				ND	
67 Dichlorobromomethane	83		8.665				ND	7
72 cis-1,3-Dichloropropene	75		9.225				ND	
73 4-Methyl-2-pentanone (MIBK)	43		9.414				ND	7
$ 74 Toluene-d8 (Surr)	98	9.542	9.542	0.000	94	2180106	10.0	
75 Toluene	92	9.628	9.622	0.006	97	7702	0.0485	
76 trans-1,3-Dichloropropene	75		9.896				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
79 1,1,2-Trichloroethane	97		10.103				ND	
80 Tetrachloroethene	166	10.195	10.189	0.006	95	3008	0.0447	
82 2-Hexanone	43		10.335				ND	7
83 Chlorodibromomethane	129		10.487				ND	
84 Ethylene Dibromide	107		10.597				ND	
* 85 Chlorobenzene-d5 (IS)	117	11.042	11.042	0.000	88	1625116	10.0	
87 Chlorobenzene	112		11.067				ND	
89 1,1,1,2-Tetrachloroethane	131		11.152				ND	
90 Ethylbenzene	91		11.158				ND	7
S 88 Xylenes, Total	106		11.245				ND	7
91 m-Xylene & p-Xylene	106		11.274				ND	7
92 o-Xylene	106		11.609				ND	7
93 Styrene	104		11.627				ND	7
94 Bromoform	173		11.786				ND	7
$ 98 4-Bromofluorobenzene (Surr)	95	12.060	12.060	0.000	89	804735	9.66	
99 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 113 1,4-Dichlorobenzene-d4	152	12.956	12.956	0.000	96	886082	10.0	

QC Flag Legend

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

Reagents:

MSV_HP25_ISSS_00029 Amount Added: 1.00 Units: uL Run Reagent

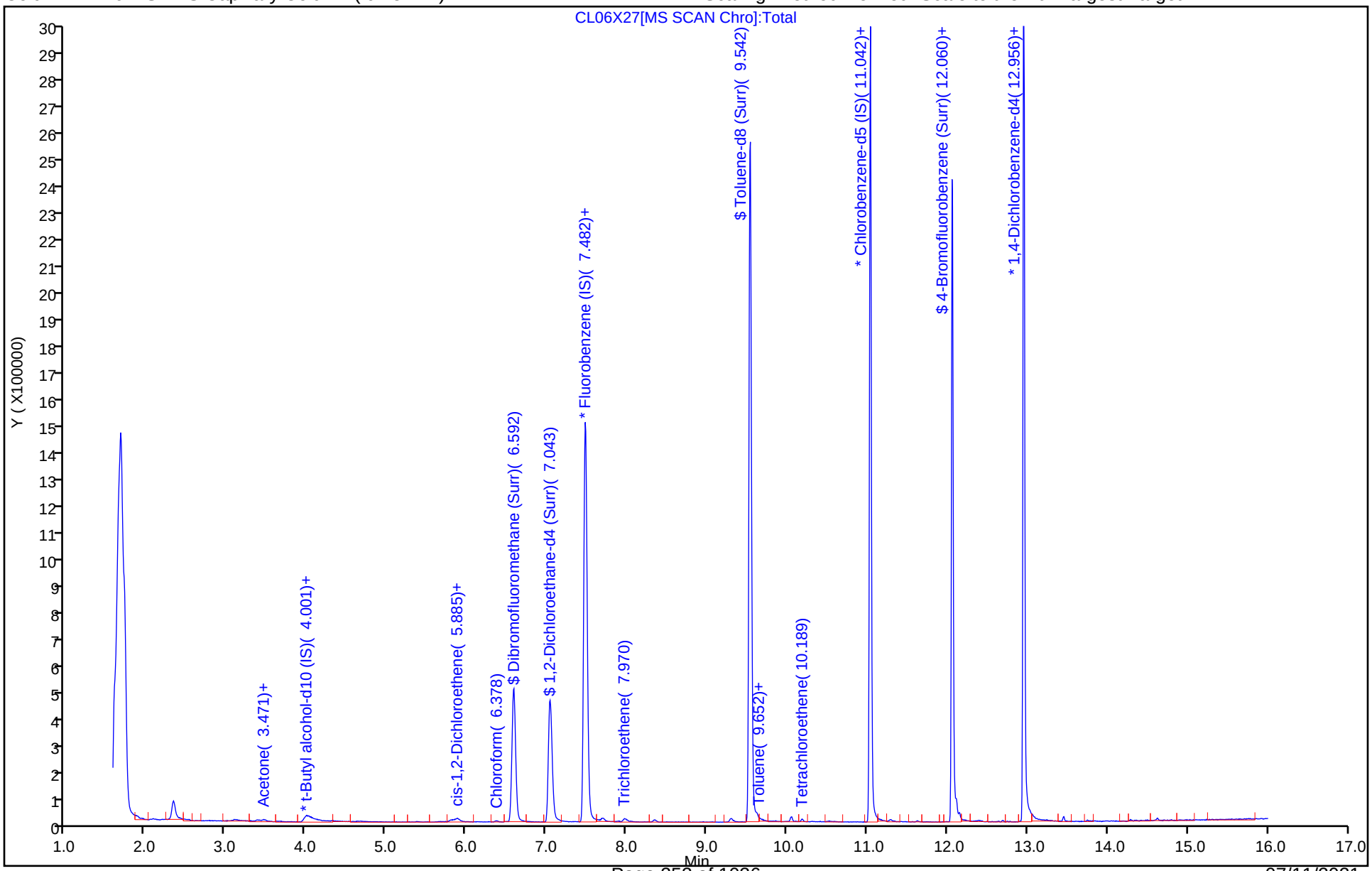
Report Date: 07-Jul-2021 12:50:14 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X27.D

Injection Date:	06-Jul-2021 19:32:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	410-45147-A-5	Lab Sample ID:	410-45147-5	Worklist Smp#:	22
Client ID:	HD-COD-SW-13-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X27.D				
Lims ID:	410-45147-A-5				
Client ID:	HD-COD-SW-13-0/1-0				
Sample Type:	Client				
Inject. Date:	06-Jul-2021 19:32:30	ALS Bottle#:	27	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0033571-022				
Misc. Info.:	410-45147-A-5				
Operator ID:	SRK36897	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Jul-2021 12:50:14	Calib Date:	13-Apr-2021 23:14:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1661				

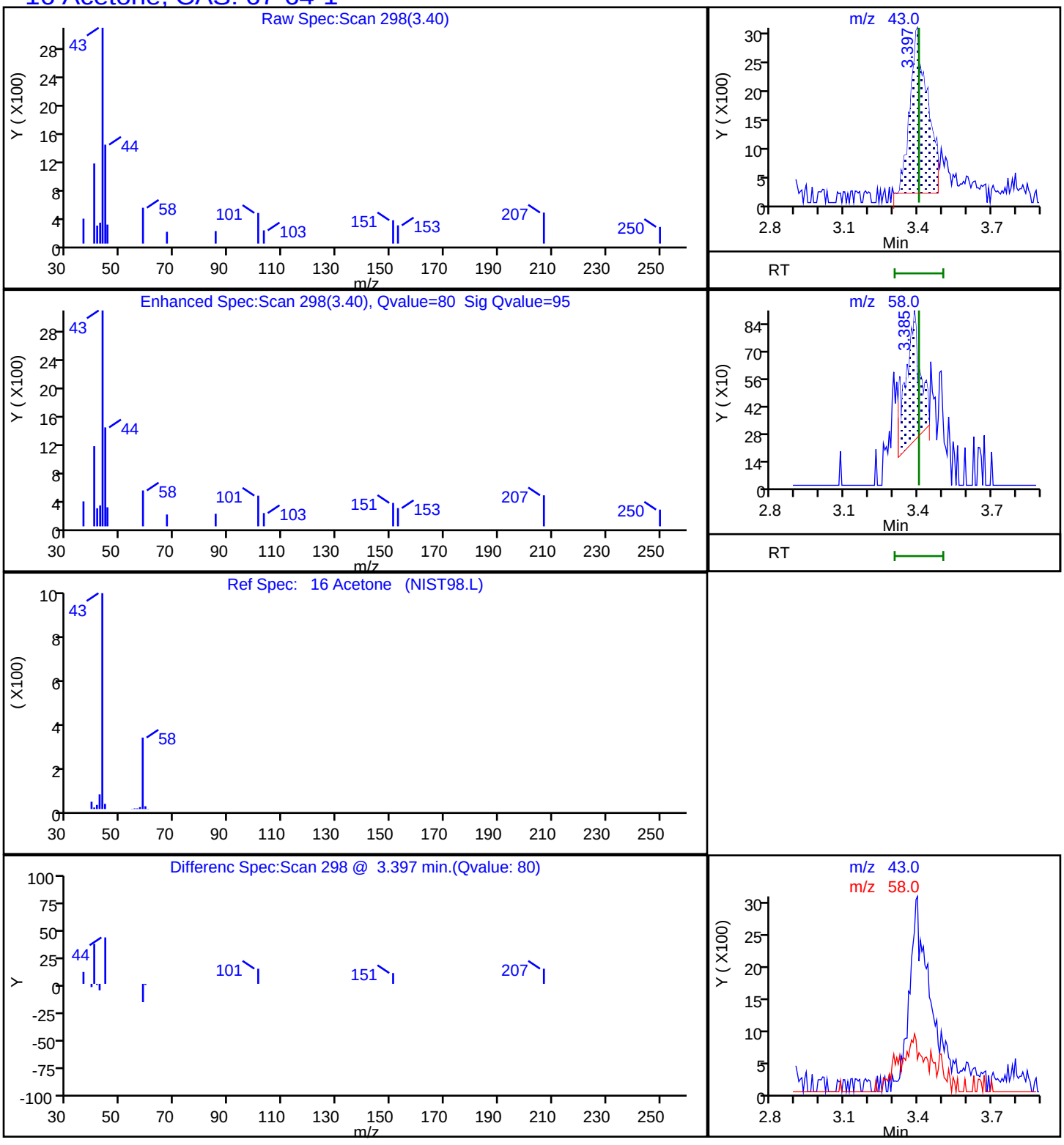
First Level Reviewer: beckerk Date: 06-Jul-2021 22:56:21

Compound	Amount Added	Amount Recovered	% Rec.
$ 47 Dibromofluoromethane (Surr)	10.0	9.90	98.99
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.24
$ 74 Toluene-d8 (Surr)	10.0	10.0	100.28
$ 98 4-Bromofluorobenzene (Surr)	10.0	9.66	96.65

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X27.D				
Injection Date:	06-Jul-2021 19:32:30	Instrument ID:	10193		
Lims ID:	410-45147-A-5	Lab Sample ID:	410-45147-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	27	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

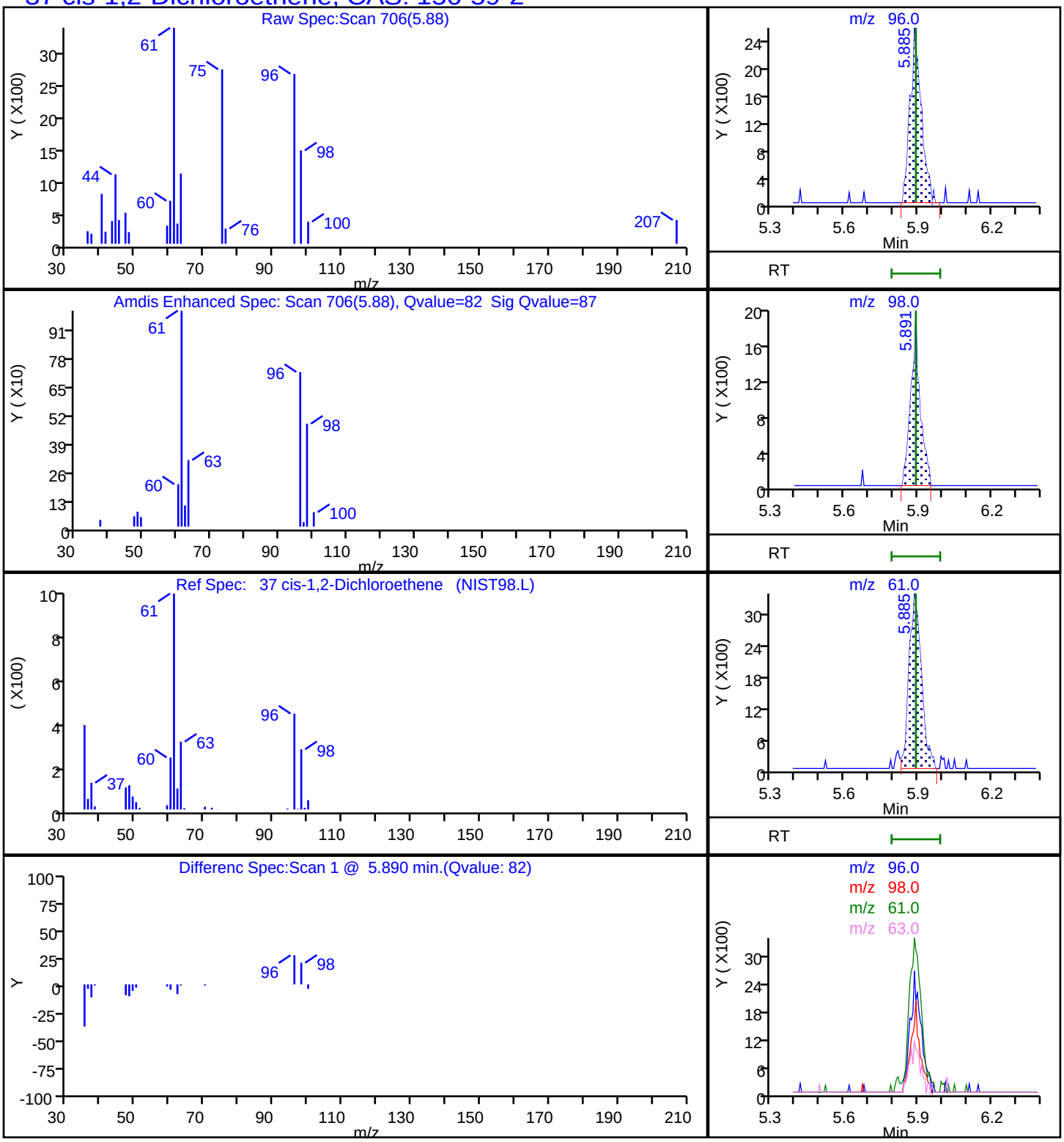
16 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X27.D				
Injection Date:	06-Jul-2021 19:32:30	Instrument ID:	10193		
Lims ID:	410-45147-A-5	Lab Sample ID:	410-45147-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	27	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

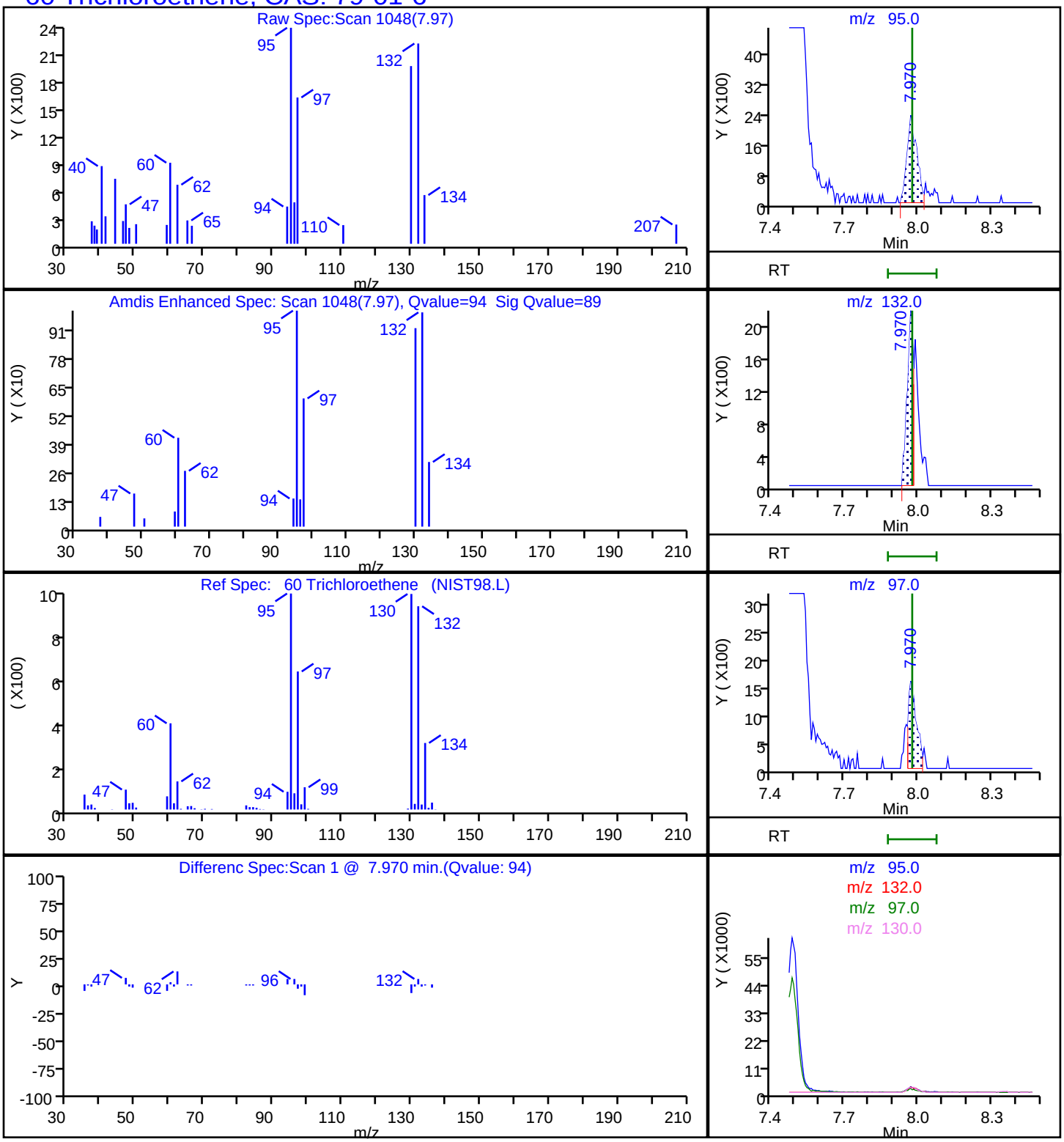
37 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X27.D				
Injection Date:	06-Jul-2021 19:32:30	Instrument ID:	10193		
Lims ID:	410-45147-A-5	Lab Sample ID:	410-45147-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	27	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

60 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

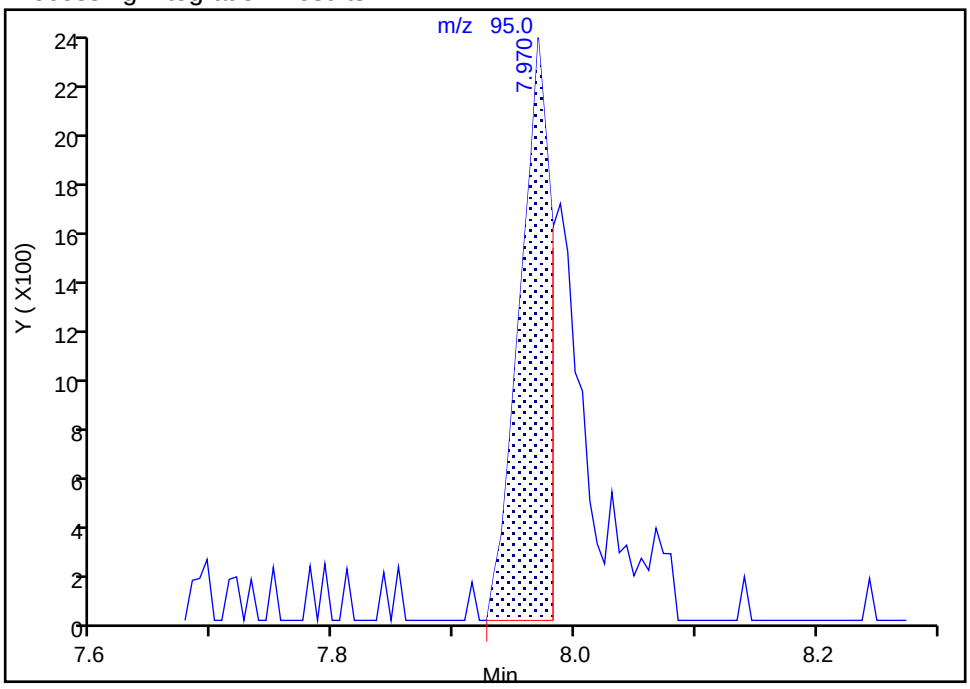
Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X27.D				
Injection Date:	06-Jul-2021 19:32:30	Instrument ID:	10193		
Lims ID:	410-45147-A-5	Lab Sample ID:	410-45147-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	27	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

60 Trichloroethene, CAS: 79-01-6

Signal: 1

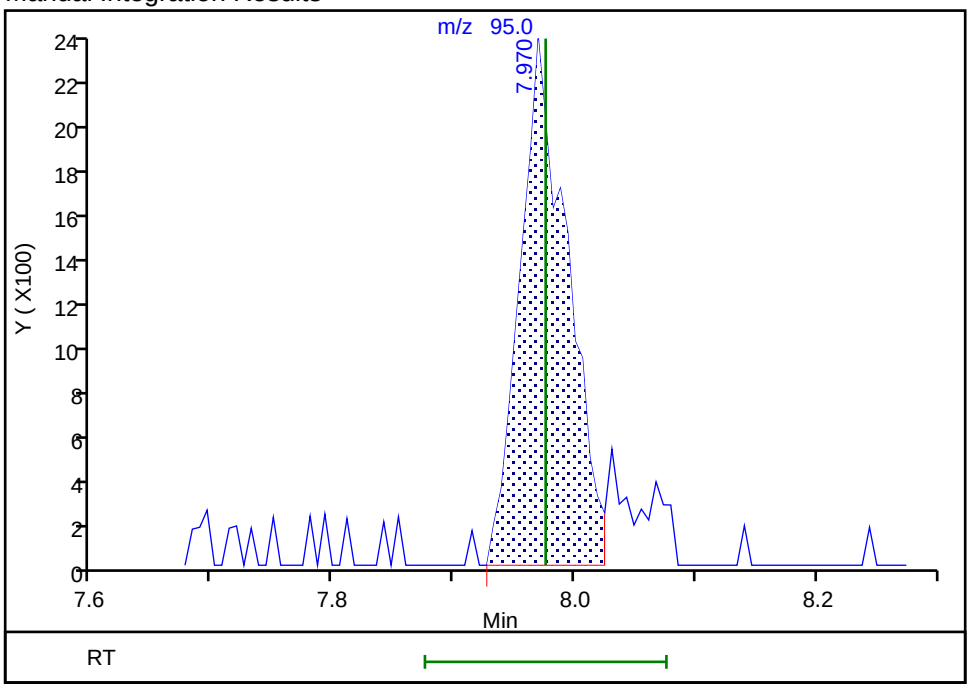
Processing Integration Results

RT: 7.97
Area: 4178
Amount: 0.067575
Amount Units: ug/l



Manual Integration Results

RT: 7.97
Area: 6382
Amount: 0.103222
Amount Units: ug/l



Reviewer: innoonk, 07-Jul-2021 12:49:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 Lab Sample ID: 410-45147-6

Matrix: Water Lab File ID: CL06X11.D

Analysis Method: 8260D Date Collected: 06/24/2021 11:40

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 13:35

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 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	0.11	J	0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	0.090	J	0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND	FH	0.50	0.060
78-93-3	2-Butanone (MEK)	ND	^c FH	5.0	0.60
591-78-6	2-Hexanone	ND	^c FH	5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	^c FH	5.0	0.70
67-64-1	Acetone	ND		5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND	FH	1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND	FH	0.50	0.070
67-66-3	Chloroform	0.30	J	0.50	0.090
74-87-3	Chloromethane	ND	*+ ^c FH	0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.66		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	0.050	J	0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	2.2		0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 Lab Sample ID: 410-45147-6

Matrix: Water Lab File ID: CL06X11.D

Analysis Method: 8260D Date Collected: 06/24/2021 11:40

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 13:35

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	0.80		0.50	0.060
75-01-4	Vinyl chloride	ND	*+ ^c FH	0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X11.D
Lims ID: 410-45147-A-6
Client ID: HD-COD-SW-15-0/1-0
Sample Type: Client
Inject. Date: 06-Jul-2021 13:35:30 ALS Bottle#: 11 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033571-009
Misc. Info.: RB
Operator ID: SRK36897 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2021 12:46:44 Calib Date: 13-Apr-2021 23:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1661

First Level Reviewer: beckerk Date: 06-Jul-2021 22:49:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85		1.885				ND	
1 Chlorodifluoromethane	51		1.898				ND	7
140 Dimethyl ether	45		1.965				ND	
3 Chloromethane	50		2.081				ND	7
4 Butadiene	39		2.184				ND	7
5 Vinyl chloride	62		2.184				ND	7
6 Bromomethane	94		2.495				ND	
7 Chloroethane	64		2.568				ND	
8 Dichlorofluoromethane	67		2.800				ND	7
T 213 Vinyl bromide TIC	106		2.830				ND	
9 Trichlorofluoromethane	101		2.867				ND	
11 Ethyl ether	59		3.074				ND	
T 219 Ethanol TIC	45		3.099				ND	U
12 1,2-Dichloro-1,1,2-trifluoroetha	67		3.178				ND	7
13 Acrolein	56		3.239				ND	7
14 1,1-Dichloroethene	96	3.373	3.373	0.000	89	4429	0.0901	
16 Acetone	43	3.416	3.403	0.013	63	4491	0.6453	
15 112TCTFE	101		3.416				ND	
17 Iodomethane	142		3.556				ND	
18 Isopropyl alcohol	45		3.580				ND	U
19 Ethyl bromide	108		3.580				ND	
20 Carbon disulfide	76		3.684				ND	7
22 Methyl acetate	43		3.788				ND	
21 Acetonitrile	41		3.788				ND	
23 3-Chloro-1-propene	41		3.812				ND	
24 Methylene Chloride	84		3.989				ND	
* 25 t-Butyl alcohol-d10 (IS)	65	4.038	4.044	-0.006	94	150656	50.0	
26 2-Methyl-2-propanol	59		4.153				ND	
27 Acrylonitrile	53		4.324				ND	
28 Methyl tert-butyl ether	73	4.373	4.373	0.000	90	8026	0.0495	
29 trans-1,2-Dichloroethene	96		4.379				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Hexane	57		4.806				ND	
32 1,1-Dichloroethane	63	5.056	5.049	0.007	92	6515	0.0610	
31 Vinyl acetate	43		5.074				ND	7
33 Isopropyl ether	45		5.104				ND	
34 2-Chloro-1,3-butadiene	53		5.159				ND	
35 Tert-butyl ethyl ether	59		5.647				ND	7
36 2-Butanone (MEK)	43		5.860				ND	
37 cis-1,2-Dichloroethene	96	5.897	5.891	0.006	82	42101	0.6639	
38 2,2-Dichloropropane	77		5.903				ND	
39 Ethyl acetate	43		5.952				ND	U
40 Propionitrile	54		5.958				ND	
41 Methyl acrylate	55		6.013				ND	
S 42 1,2-Dichloroethene, Total	100				0		0.6639	
43 Methacrylonitrile	67		6.165				ND	
44 Chlorobromomethane	128		6.226				ND	
45 Tetrahydrofuran	71		6.226				ND	
46 Chloroform	83	6.391	6.378	0.013	94	30376	0.2975	
$ 47 Dibromofluoromethane (Surr)	113	6.598	6.598	0.000	93	499596	9.85	
48 1,1,1-Trichloroethane	97	6.604	6.598	0.006	35	10034	0.1117	a
49 Cyclohexane	56		6.689				ND	
145 1-Chlorobutane	56		6.781				ND	
50 Carbon tetrachloride	117		6.805				ND	7
51 1,1-Dichloropropene	75		6.817				ND	
52 Isobutyl alcohol	41		7.006				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.049	7.055	-0.006	99	104638	10.0	
54 Benzene	78		7.080				ND	7
55 1,2-Dichloroethane	62		7.159				ND	
152 Isopropyl acetate	43		7.195				ND	
56 Tert-amyl methyl ether	73		7.275				ND	
* 57 Fluorobenzene (IS)	96	7.488	7.494	-0.006	98	2141627	10.0	
58 n-Heptane	43		7.500				ND	7
59 n-Butanol	56		7.896				ND	
60 Trichloroethene	95	7.976	7.976	0.000	97	49065	0.8004	
61 Methylcyclohexane	83		8.274				ND	
62 1,2-Dichloropropane	63		8.305				ND	
63 2-ethoxy-2-methyl butane	87		8.323				ND	
64 Methyl methacrylate	69		8.402				ND	
66 Dibromomethane	93		8.421				ND	
65 1,4-Dioxane	88		8.433				ND	
160 n-Propyl acetate	61		8.518				ND	
67 Dichlorobromomethane	83		8.665				ND	
68 2-Nitropropane	41		8.945				ND	7
71 1-Bromo-2-chloroethane	63		9.061				ND	
69 2-Chloroethyl vinyl ether	63		9.061				ND	
70 Chloroacetonitrile	75		9.067				ND	
72 cis-1,3-Dichloropropene	75		9.225				ND	
73 4-Methyl-2-pentanone (MIBK)	43		9.414				ND	7
$ 74 Toluene-d8 (Surr)	98	9.543	9.542	0.001	95	2163504	10.0	
75 Toluene	92	9.628	9.622	0.006	97	4010	0.0255	
76 trans-1,3-Dichloropropene	75		9.896				ND	
78 Ethyl methacrylate	69		9.963				ND	
T 218 3-Chloro-1,2-propanediol TIC	44		10.000				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
T 208 2-Bromoethanol TIC	45		10.000				ND	U
T 209 Monochloroacetic acid TIC	50		10.000				ND	U
T 210 2-Chloroethanol TIC	44		10.000				ND	U
T 211 Epibromohydrin TIC	57		10.000				ND	U
T 212 Chloroacetaldehyde TIC	50		10.000				ND	U
T 217 2,3-Dibromopropene TIC	119		10.000				ND	U
T 214 Epichlorohydrin TIC	57		10.000				ND	U
T 215 2-Bromo-3-chloropropene TIC	75		10.000				ND	U
T 216 Ethylene oxide TIC	44		10.000				ND	U
T 207 2,3-Dibromo-1-propanol TIC	57		10.000				ND	
S 77 1,3-Dichloropropene, Total	100		10.060				ND	7
79 1,1,2-Trichloroethane	97		10.103				ND	
80 Tetrachloroethene	166	10.189	10.189	0.000	96	145153	2.18	
81 1,3-Dichloropropane	76		10.274				ND	
82 2-Hexanone	43		10.335				ND	7
161 n-Butyl acetate	43		10.475				ND	U
83 Chlorodibromomethane	129		10.487				ND	
84 Ethylene Dibromide	107		10.597				ND	
* 85 Chlorobenzene-d5 (IS)	117	11.042	11.042	0.000	88	1612176	10.0	
86 1-Chlorohexane	91		11.054				ND	7
87 Chlorobenzene	112		11.067				ND	
89 1,1,1,2-Tetrachloroethane	131		11.152				ND	
90 Ethylbenzene	91		11.158				ND	7
S 88 Xylenes, Total	106		11.245				ND	7
91 m-Xylene & p-Xylene	106		11.274				ND	7
92 o-Xylene	106		11.609				ND	7
93 Styrene	104		11.627				ND	
94 Bromoform	173		11.786				ND	
95 Isopropylbenzene	105		11.920				ND	
96 cis-1,4-Dichloro-2-butene	88		11.987				ND	U
97 Cyclohexanone	55		12.018				ND	U
$ 98 4-Bromofluorobenzene (Surr)	95	12.066	12.060	0.006	88	805617	9.75	
99 1,1,2,2-Tetrachloroethane	83		12.170				ND	
100 Bromobenzene	156		12.182				ND	
101 trans-1,4-Dichloro-2-butene	53		12.201				ND	
102 1,2,3-Trichloropropane	110		12.219				ND	
103 N-Propylbenzene	91		12.249				ND	7
104 2-Chlorotoluene	126		12.329				ND	
105 1,3,5-Trimethylbenzene	105		12.389				ND	7
106 4-Chlorotoluene	126		12.420				ND	
107 tert-Butylbenzene	134		12.633				ND	
108 Pentachloroethane	167		12.664				ND	
109 1,2,4-Trimethylbenzene	105		12.676				ND	7
110 sec-Butylbenzene	105		12.804				ND	
111 1,3-Dichlorobenzene	146		12.902				ND	7
112 4-Isopropyltoluene	119		12.908				ND	7
* 113 1,4-Dichlorobenzene-d4	152	12.957	12.956	0.001	96	902956	10.0	
114 1,4-Dichlorobenzene	146		12.975				ND	7
115 1,2,3-Trimethylbenzene	120		12.987				ND	7
116 Benzyl chloride	126		13.054				ND	7
119 n-Butylbenzene	92		13.206				ND	
120 1,2-Dichlorobenzene	146		13.237				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
118 p-Diethylbenzene	119		13.261				ND	
122 Hexachloroethane	117		13.444				ND	
123 1,2-Dibromo-3-Chloropropane	155		13.792				ND	
124 1,3,5-Trichlorobenzene	180		13.914				ND	
125 1,2,4-Trichlorobenzene	180		14.340				ND	7
126 Hexachlorobutadiene	225		14.426				ND	
127 Naphthalene	128		14.523				ND	7
128 1,2,3-Trichlorobenzene	180		14.670				ND	
129 2-Methylnaphthalene	142		15.291				ND	U
130 Dodecane	57		0.000				ND	
138 n-Decane	57		0.000				ND	
220 Acetonitrile TIC	1		0.000				ND	
162 Ethanol	45		0.000				ND	
158 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
157 t-Amyl alcohol	1		0.000				ND	
151 Propene oxide	1		0.000				ND	
221 Isopropyl alcohol TIC	1		0.000				ND	
149 Chlorotrifluoroethene	1		0.000				ND	
142 1-Bromo-3-Chloropropane	1		0.000				ND	
136 Methylal	1		0.000				ND	
226 1,1-Dichloroacetone	1		0.000				ND	
133 1-Chloropropane	1		0.000				ND	
131 2-Bromo-1-chloropropane	1		0.000				ND	
159 tert-Butyl Formate	1		0.000				ND	
155 2-Chloro-1,1,1-Trifluoroethane	1		0.000				ND	
222 Vinyl acetate (TIC)	1		0.000				ND	
223 1,3-Dichloro-2-propanol TIC	1		0.000				ND	
224 Propargyl alcohol TIC	1		0.000				ND	
225 Pentane	43		0.000				ND	
227 Pentachloroethane TIC	1		0.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

MSV_HP25_ISSS_00029 Amount Added: 1.00 Units: uL Run Reagent

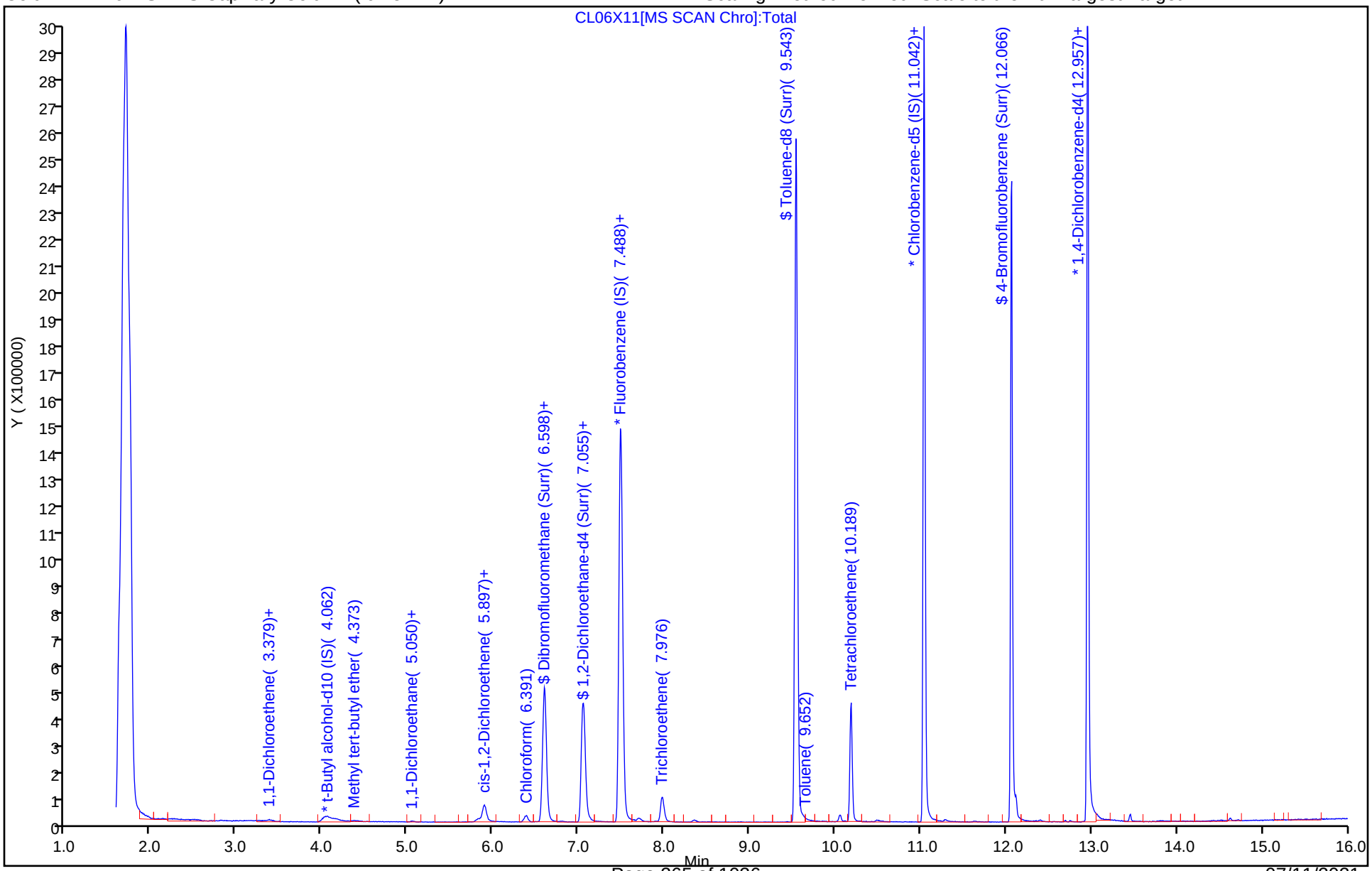
Report Date: 07-Jul-2021 12:46:44 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X11.D

Injection Date:	06-Jul-2021 13:35:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	410-45147-A-6	Lab Sample ID:	410-45147-6	Worklist Smp#:	9
Client ID:	HD-COD-SW-15-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X11.D				
Lims ID:	410-45147-A-6				
Client ID:	HD-COD-SW-15-0/1-0				
Sample Type:	Client				
Inject. Date:	06-Jul-2021 13:35:30	ALS Bottle#:	11	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0033571-009				
Misc. Info.:	RB				
Operator ID:	SRK36897	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Jul-2021 12:46:44	Calib Date:	13-Apr-2021 23:14:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1661				

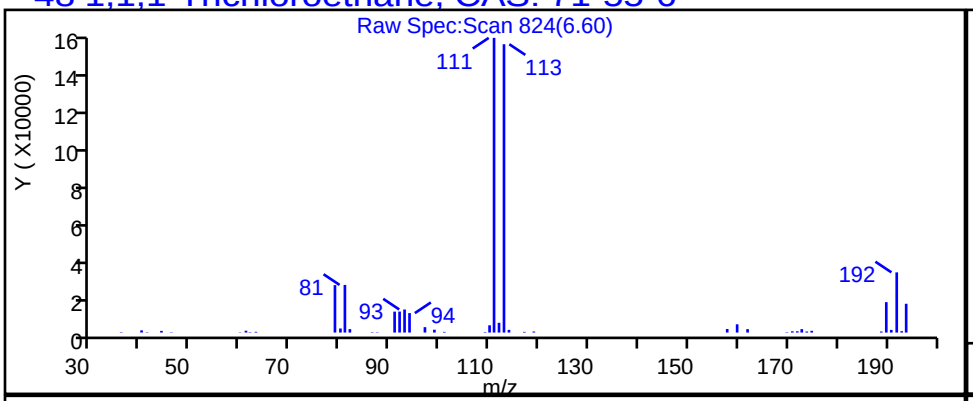
First Level Reviewer: beckerk Date: 06-Jul-2021 22:49:42

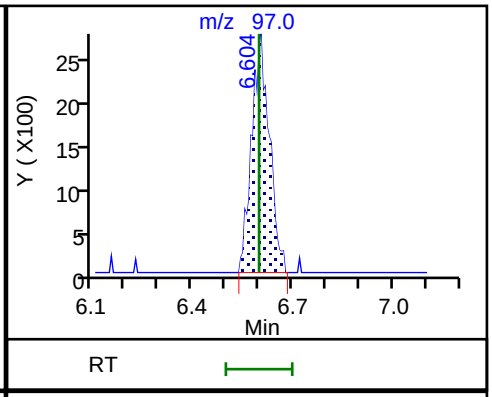
Compound	Amount Added	Amount Recovered	% Rec.
$ 47 Dibromofluoromethane (Surr)	10.0	9.85	98.52
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.0	100.19
$ 74 Toluene-d8 (Surr)	10.0	10.0	100.32
$ 98 4-Bromofluorobenzene (Surr)	10.0	9.75	97.53

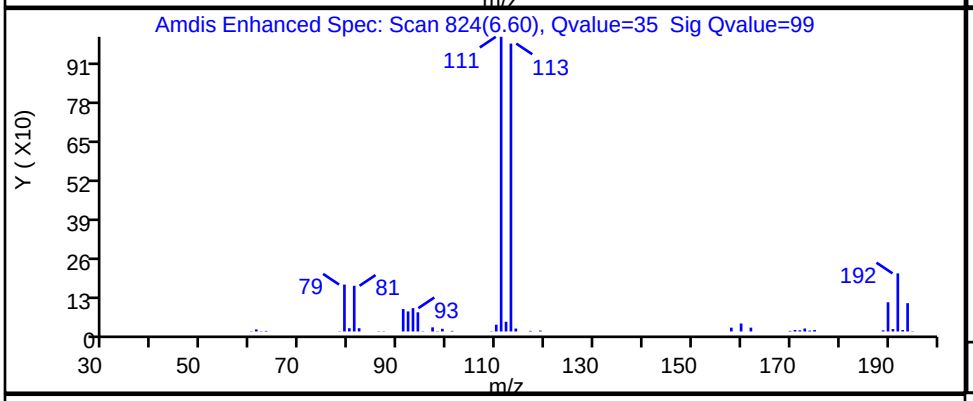
Eurofins Lancaster Laboratories Env, LLC

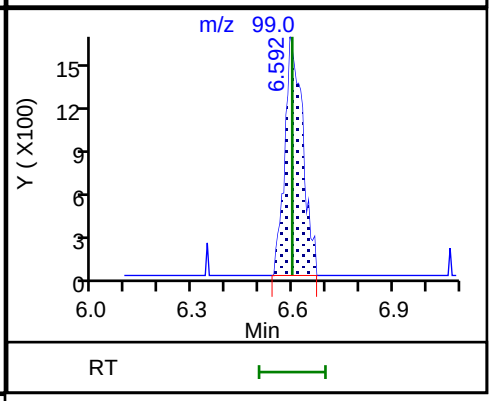
Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X11.D				
Injection Date:	06-Jul-2021 13:35:30	Instrument ID:	10193		
Lims ID:	410-45147-A-6	Lab Sample ID:	410-45147-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	11	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

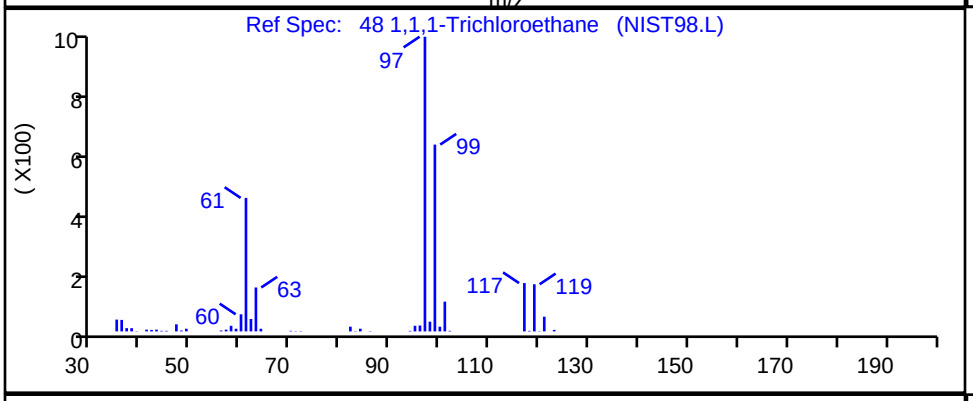
48 1,1,1-Trichloroethane, CAS: 71-55-6

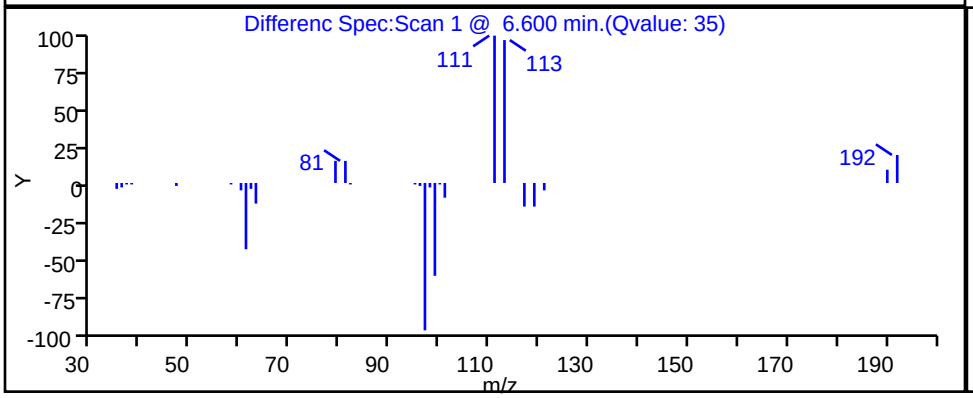


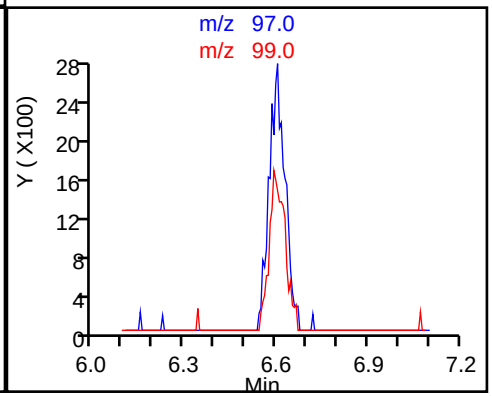












Report Date: 07-Jul-2021 12:46:44 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X11.D

Injection Date: 06-Jul-2021 13:35:30 Instrument ID: 10193

Lims ID: 410-45147-A-6 Lab Sample ID: 410-45147-6

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

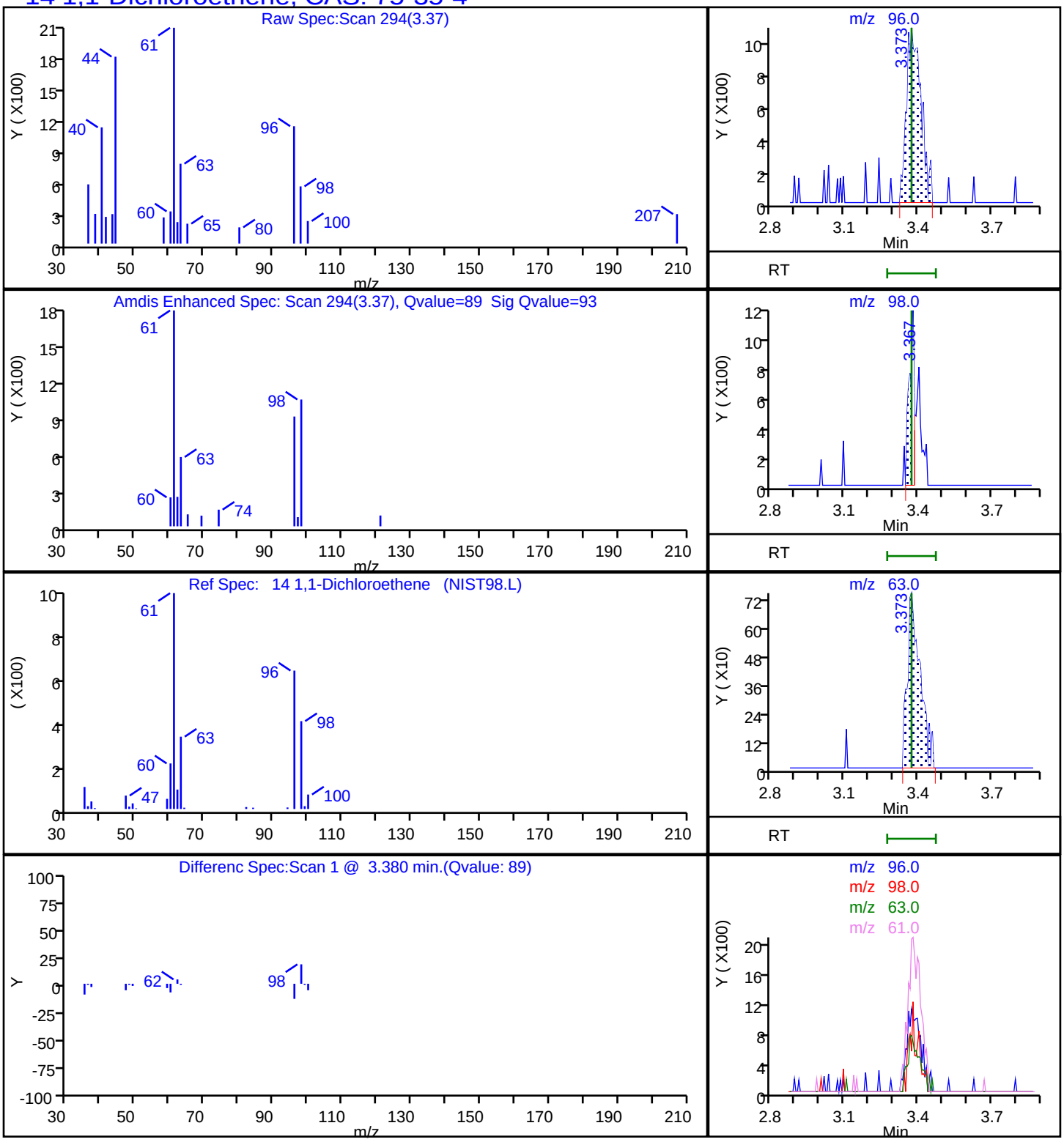
Operator ID: SRK36897 ALS Bottle#: 11 Worklist Smp#: 9

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

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

14 1,1-Dichloroethene, CAS: 75-35-4



Report Date: 07-Jul-2021 12:46:44 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X11.D

Injection Date: 06-Jul-2021 13:35:30 Instrument ID: 10193

Lims ID: 410-45147-A-6 Lab Sample ID: 410-45147-6

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

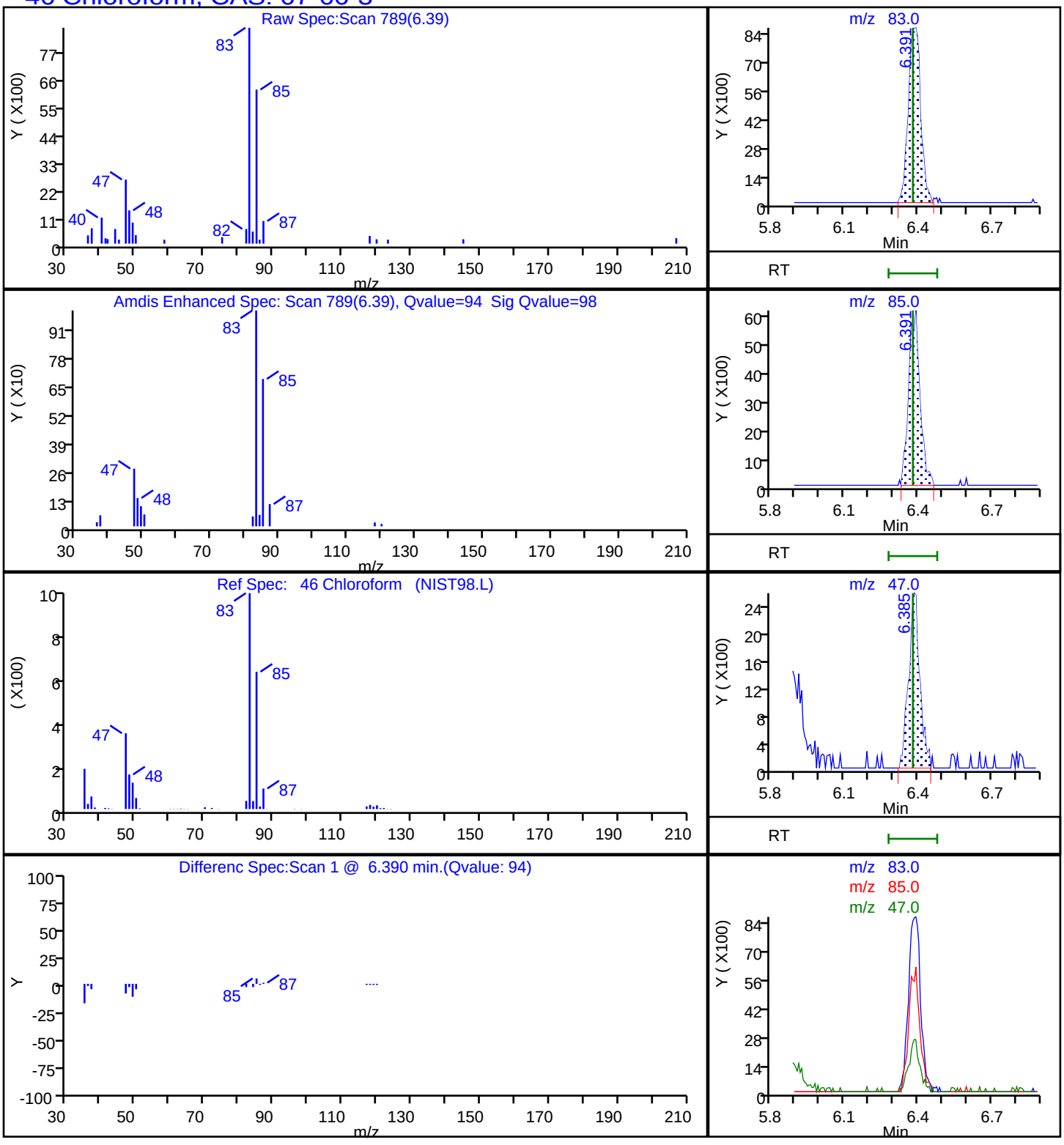
Operator ID: SRK36897 ALS Bottle#: 11 Worklist Smp#: 9

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

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

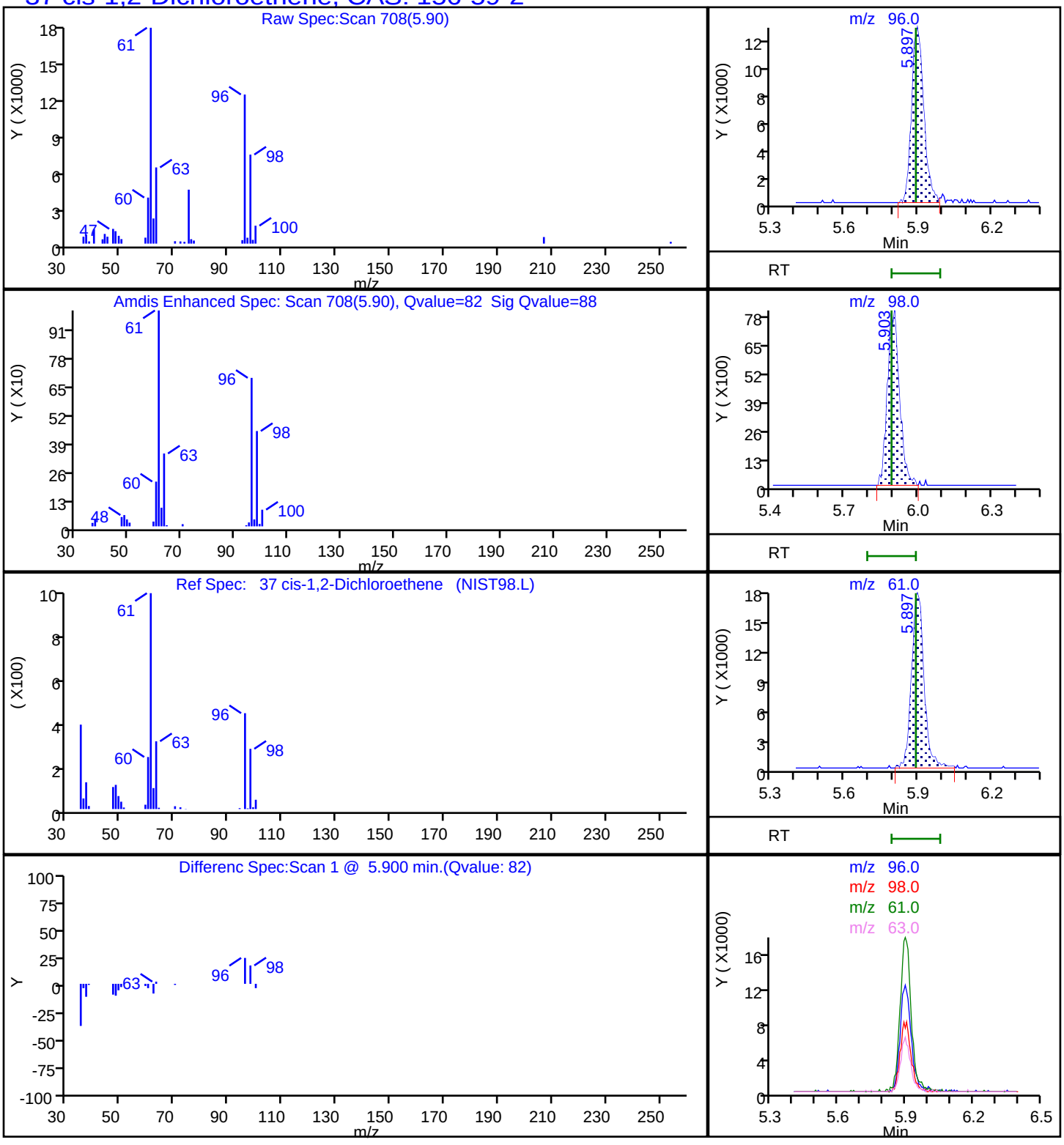
46 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X11.D
Injection Date: 06-Jul-2021 13:35:30 Instrument ID: 10193
Lims ID: 410-45147-A-6 Lab Sample ID: 410-45147-6
Client ID: HD-COD-SW-15-0/1-0
Operator ID: SRK36897 ALS Bottle#: 11 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

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



Report Date: 07-Jul-2021 12:46:44 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X11.D

Injection Date: 06-Jul-2021 13:35:30 Instrument ID: 10193

Lims ID: 410-45147-A-6 Lab Sample ID: 410-45147-6

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

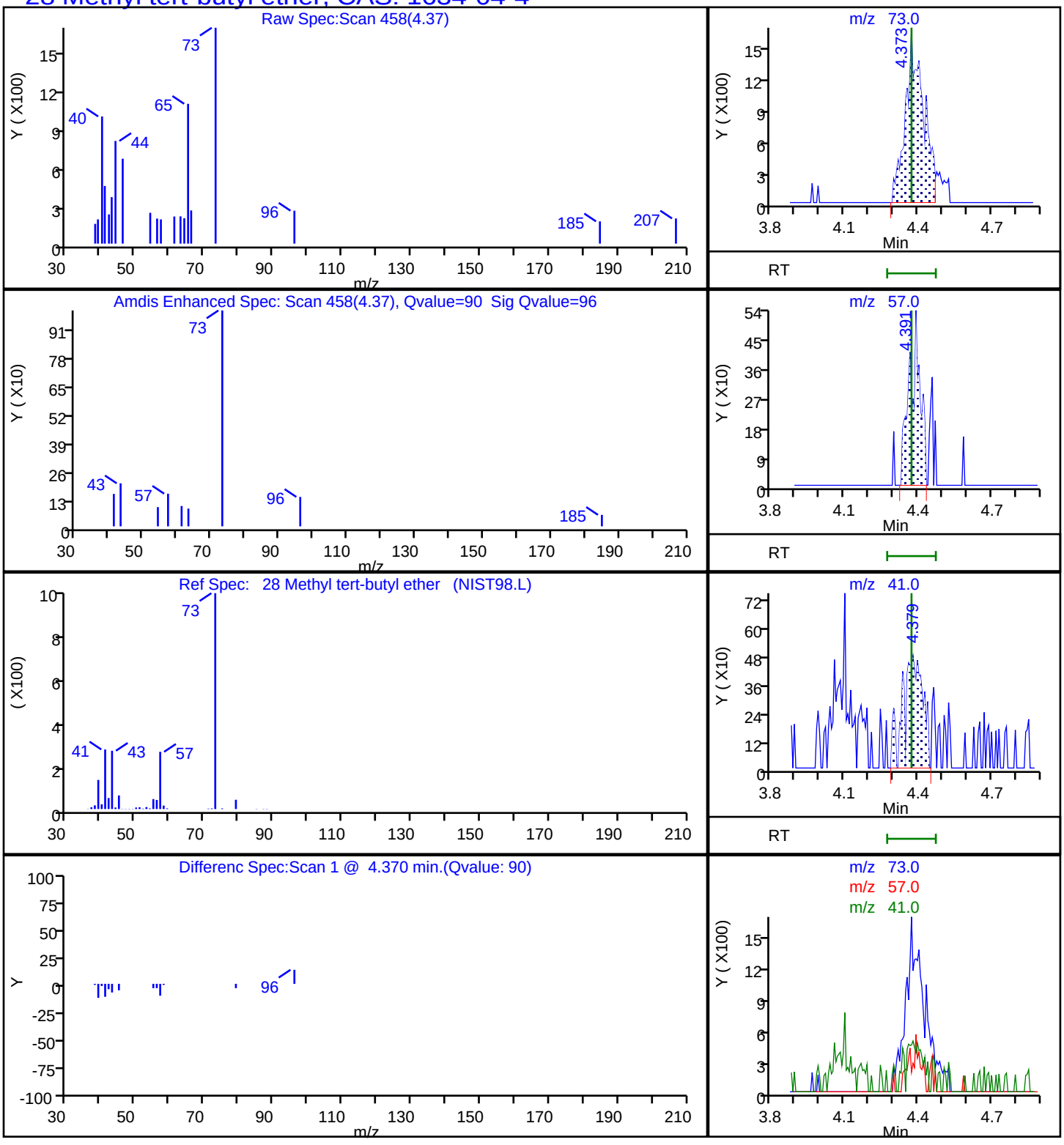
Operator ID: SRK36897 ALS Bottle#: 11 Worklist Smp#: 9

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

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

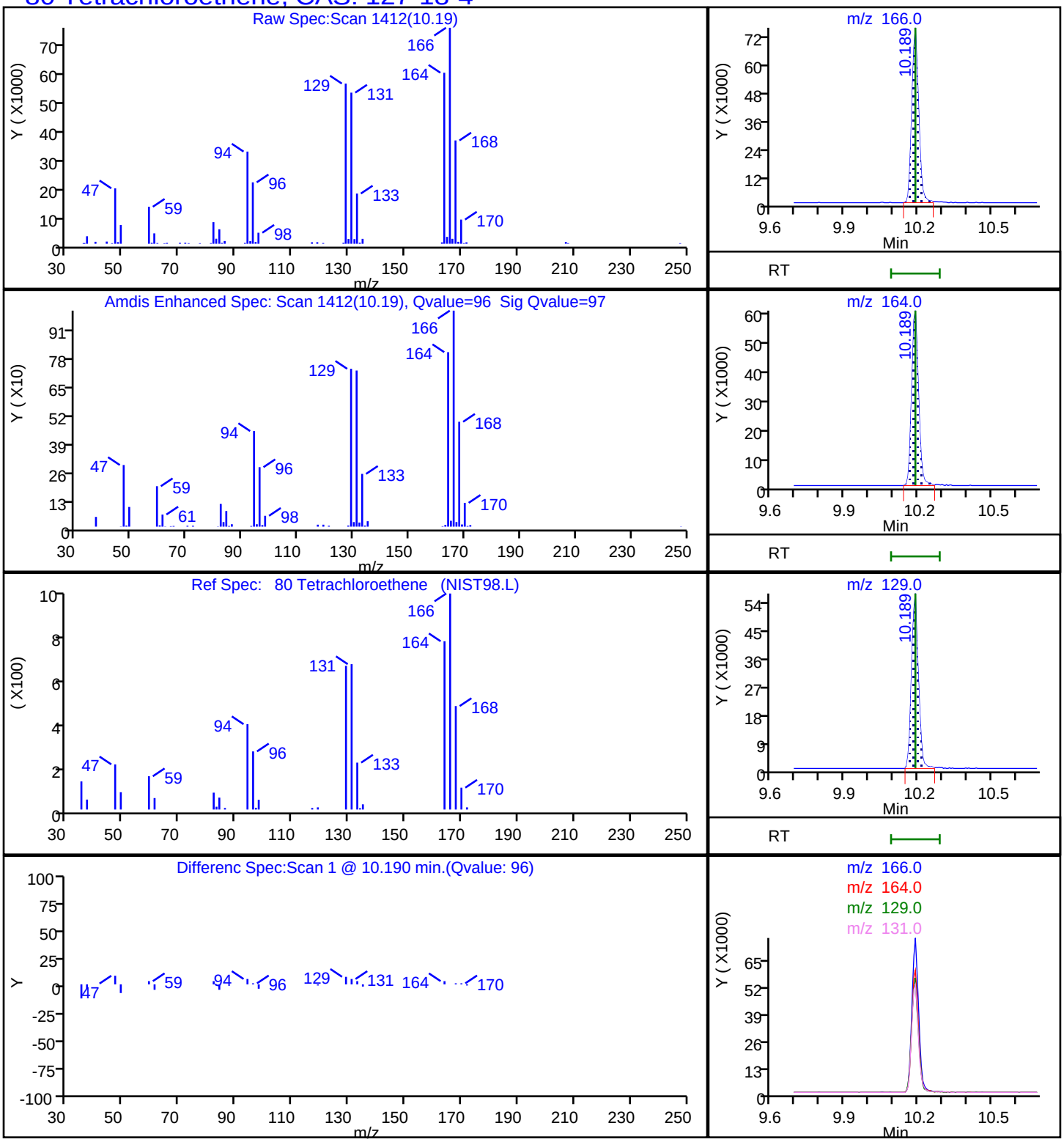
28 Methyl tert-butyl ether, CAS: 1634-04-4



Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X11.D
Injection Date: 06-Jul-2021 13:35:30 Instrument ID: 10193
Lims ID: 410-45147-A-6 Lab Sample ID: 410-45147-6
Client ID: HD-COD-SW-15-0/1-0
Operator ID: SRK36897 ALS Bottle#: 11 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

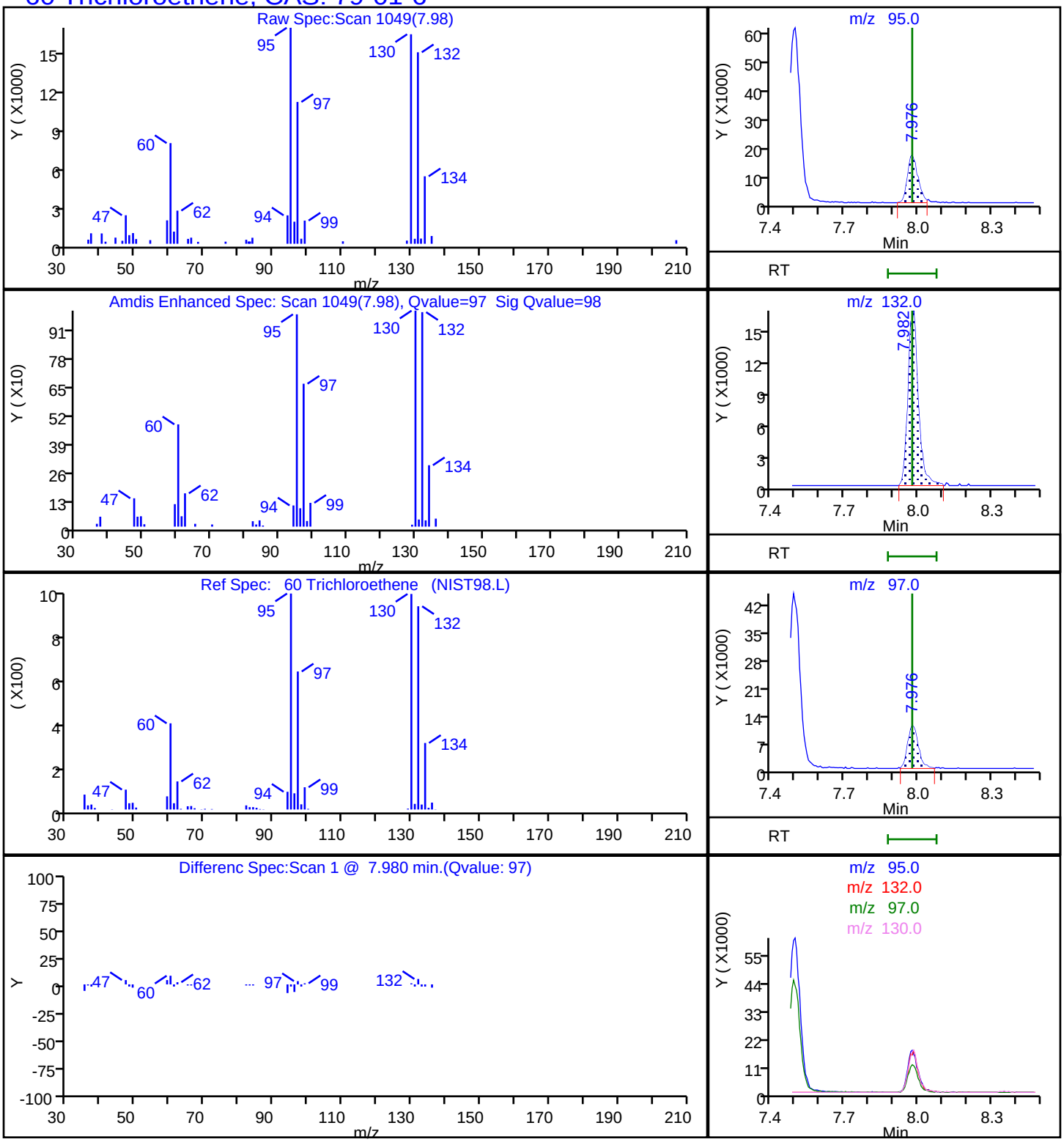
80 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X11.D				
Injection Date:	06-Jul-2021 13:35:30	Instrument ID:	10193		
Lims ID:	410-45147-A-6	Lab Sample ID:	410-45147-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	11	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

60 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

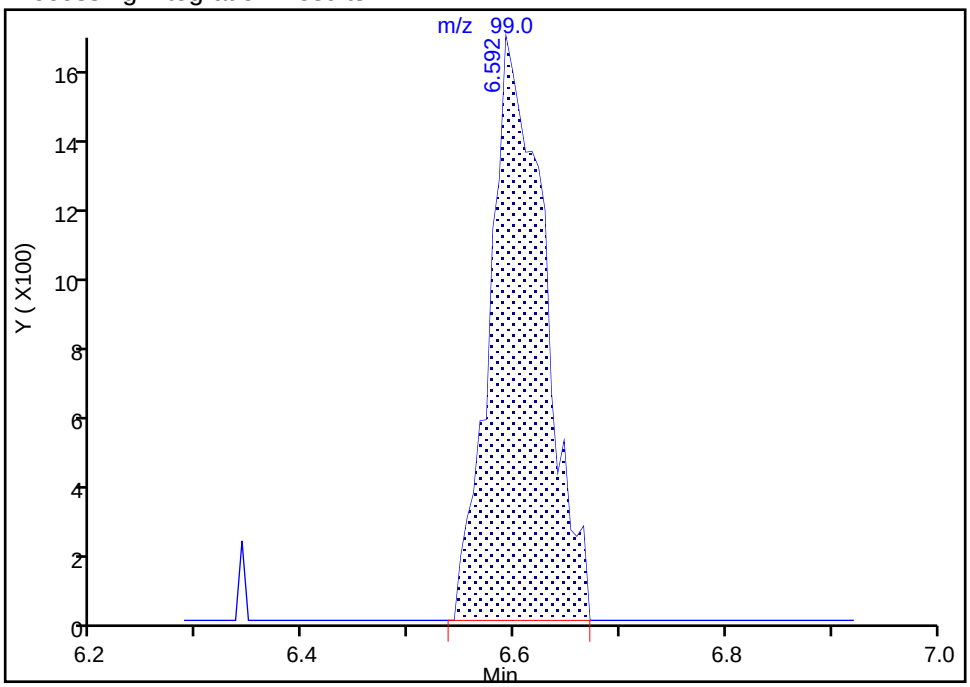
Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X11.D				
Injection Date:	06-Jul-2021 13:35:30	Instrument ID:	10193		
Lims ID:	410-45147-A-6	Lab Sample ID:	410-45147-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	11	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

48 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 2

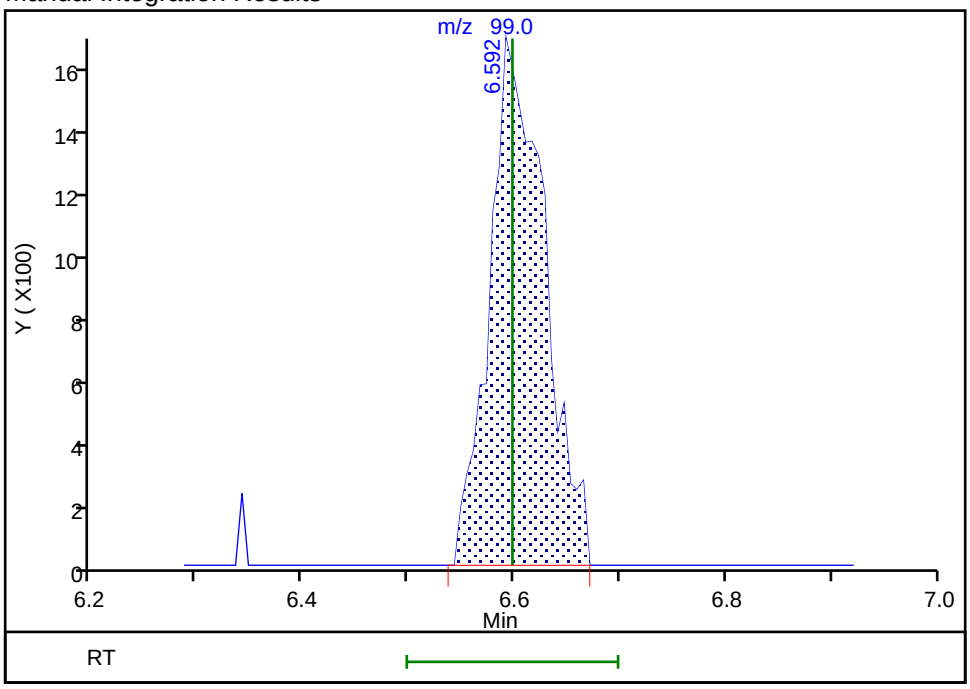
Processing Integration Results

RT: 6.59
Area: 6039
Amount: 0.111688
Amount Units: ug/l



Manual Integration Results

RT: 6.59
Area: 6039
Amount: 0.111688
Amount Units: ug/l



Reviewer: beckerk, 06-Jul-2021 22:49:13
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

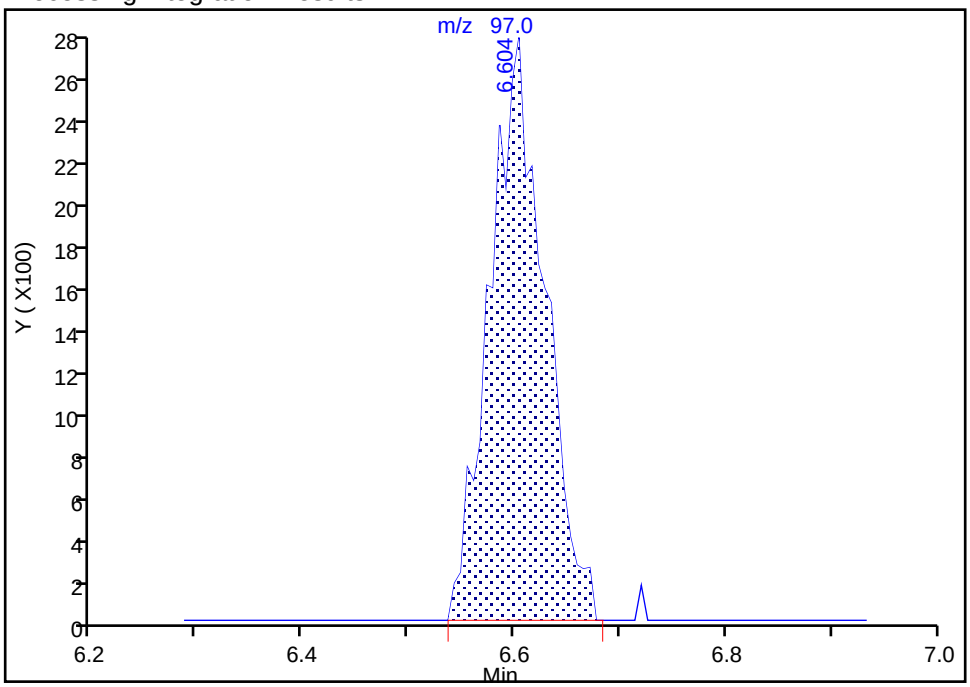
Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X11.D				
Injection Date:	06-Jul-2021 13:35:30	Instrument ID:	10193		
Lims ID:	410-45147-A-6	Lab Sample ID:	410-45147-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	11	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

48 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

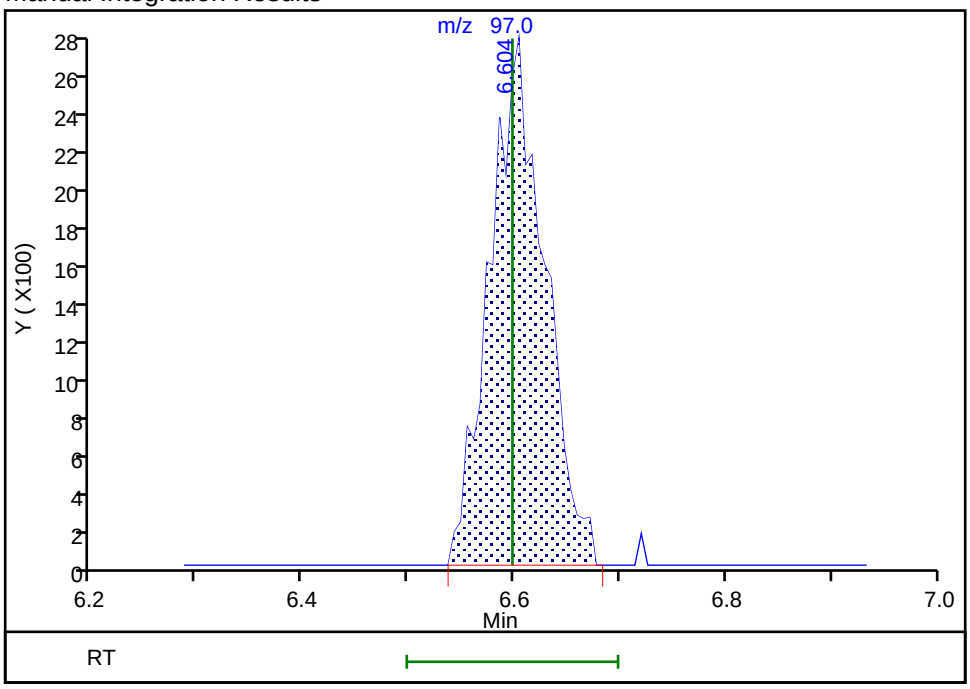
Processing Integration Results

RT: 6.60
Area: 10034
Amount: 0.111688
Amount Units: ug/l



Manual Integration Results

RT: 6.60
Area: 10034
Amount: 0.111688
Amount Units: ug/l



Reviewer: innoonk, 07-Jul-2021 12:46:35
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0 Lab Sample ID: 410-45147-7

Matrix: Water Lab File ID: CL06X28.D

Analysis Method: 8260D Date Collected: 06/24/2021 09:55

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 19:54

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND	^c	5.0	0.60
591-78-6	2-Hexanone	ND	^c	5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70
67-64-1	Acetone	2.0	J	5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND	*+ ^c	0.50	0.060
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	ND		0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	ND		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0 Lab Sample ID: 410-45147-7

Matrix: Water Lab File ID: CL06X28.D

Analysis Method: 8260D Date Collected: 06/24/2021 09:55

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 19:54

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND	*+ ^c	0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

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)	98		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X28.D
Lims ID: 410-45147-A-7
Client ID: HD-COD-SW-16-0/1-0
Sample Type: Client
Inject. Date: 06-Jul-2021 19:54:30 ALS Bottle#: 28 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033571-023
Misc. Info.: 410-45147-A-7
Operator ID: SRK36897 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 22:57:35 Calib Date: 13-Apr-2021 23:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: beckerk Date: 06-Jul-2021 22:56:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
3 Chloromethane	50	2.056	2.081	-0.025	93	3171	0.0453	
5 Vinyl chloride	62		2.184				ND	7
6 Bromomethane	94		2.495				ND	7
7 Chloroethane	64		2.568				ND	7
14 1,1-Dichloroethene	96		3.373				ND	
16 Acetone	43	3.410	3.403	0.007	85	16074	1.98	
20 Carbon disulfide	76		3.684				ND	7
24 Methylene Chloride	84		3.989				ND	7
* 25 t-Butyl alcohol-d10 (IS)	65	4.013	4.044	-0.031	95	175781	50.0	
28 Methyl tert-butyl ether	73		4.373				ND	7
29 trans-1,2-Dichloroethene	96		4.379				ND	
32 1,1-Dichloroethane	63		5.049				ND	
36 2-Butanone (MEK)	43		5.860				ND	
37 cis-1,2-Dichloroethene	96		5.891				ND	
44 Chlorobromomethane	128		6.226				ND	
46 Chloroform	83	6.379	6.378	0.001	89	5651	0.0553	
$ 47 Dibromofluoromethane (Surr)	113	6.598	6.598	0.000	93	497974	9.80	
48 1,1,1-Trichloroethane	97		6.598				ND	
50 Carbon tetrachloride	117		6.805				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.049	7.055	-0.006	99	108581	10.4	
54 Benzene	78		7.080				ND	7
55 1,2-Dichloroethane	62		7.159				ND	
* 57 Fluorobenzene (IS)	96	7.488	7.494	-0.006	98	2145012	10.0	
60 Trichloroethene	95		7.976				ND	
62 1,2-Dichloropropane	63		8.305				ND	
67 Dichlorobromomethane	83		8.665				ND	7
72 cis-1,3-Dichloropropene	75		9.225				ND	
73 4-Methyl-2-pentanone (MIBK)	43		9.414				ND	7
$ 74 Toluene-d8 (Surr)	98	9.543	9.542	0.001	94	2145868	10.1	
75 Toluene	92	9.628	9.622	0.006	98	8643	0.0555	
76 trans-1,3-Dichloropropene	75		9.896				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
79 1,1,2-Trichloroethane	97		10.103				ND	
80 Tetrachloroethene	166	10.183	10.189	-0.006	91	2935	0.0445	
82 2-Hexanone	43		10.335				ND	7
83 Chlorodibromomethane	129		10.487				ND	
84 Ethylene Dibromide	107		10.597				ND	
* 85 Chlorobenzene-d5 (IS)	117	11.042	11.042	0.000	88	1595008	10.0	
87 Chlorobenzene	112		11.067				ND	
89 1,1,1,2-Tetrachloroethane	131		11.152				ND	
90 Ethylbenzene	91		11.158				ND	7
S 88 Xylenes, Total	106		11.245				ND	7
91 m-Xylene & p-Xylene	106		11.274				ND	7
92 o-Xylene	106		11.609				ND	7
93 Styrene	104		11.627				ND	7
94 Bromoform	173		11.786				ND	7
$ 98 4-Bromofluorobenzene (Surr)	95	12.060	12.060	0.000	88	795834	9.74	
99 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 113 1,4-Dichlorobenzene-d4	152	12.957	12.956	0.001	96	886695	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP25_ISSS_00029 Amount Added: 1.00 Units: uL Run Reagent

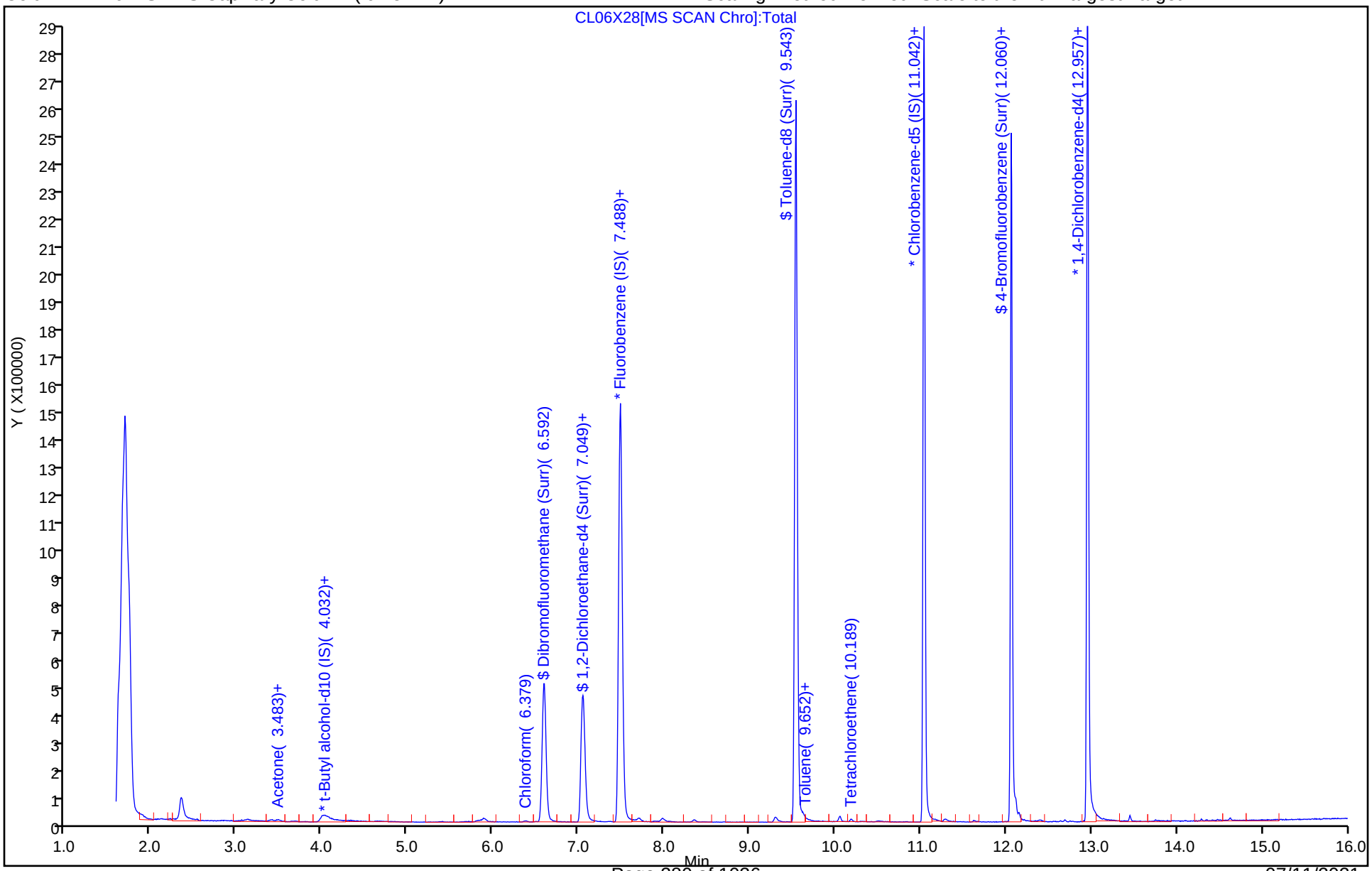
Report Date: 06-Jul-2021 22:58:11 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X28.D

Injection Date:	06-Jul-2021 19:54:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	410-45147-A-7	Lab Sample ID:	410-45147-7	Worklist Smp#:	23
Client ID:	HD-COD-SW-16-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X28.D				
Lims ID:	410-45147-A-7				
Client ID:	HD-COD-SW-16-0/1-0				
Sample Type:	Client				
Inject. Date:	06-Jul-2021 19:54:30	ALS Bottle#:	28	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0033571-023				
Misc. Info.:	410-45147-A-7				
Operator ID:	SRK36897	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Jul-2021 22:57:35	Calib Date:	13-Apr-2021 23:14:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1659				

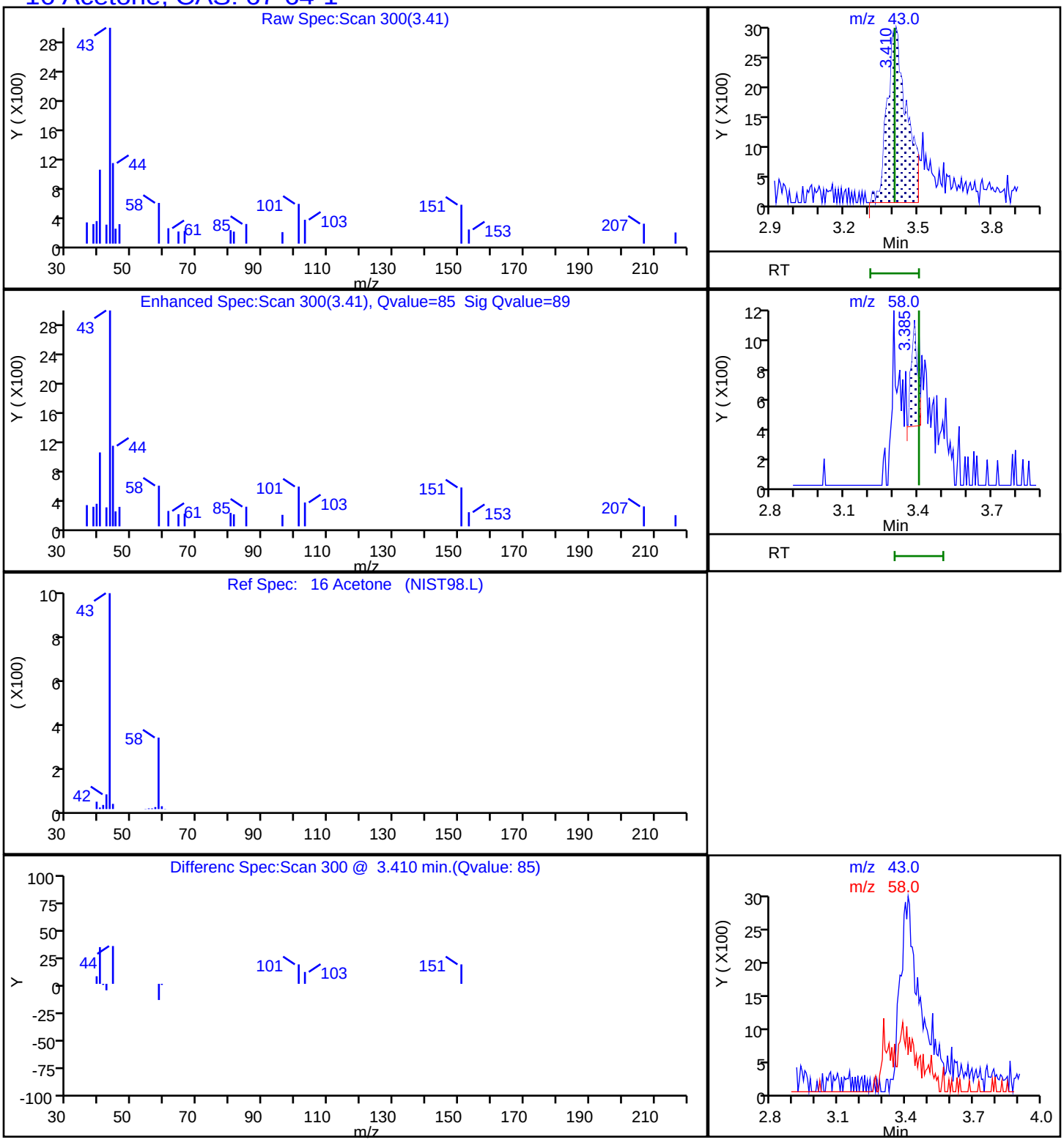
First Level Reviewer: beckerk Date: 06-Jul-2021 22:56:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 47 Dibromofluoromethane (Surr)	10.0	9.80	98.05
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	103.80
$ 74 Toluene-d8 (Surr)	10.0	10.1	100.57
$ 98 4-Bromofluorobenzene (Surr)	10.0	9.74	97.38

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X28.D				
Injection Date:	06-Jul-2021 19:54:30	Instrument ID:	10193		
Lims ID:	410-45147-A-7	Lab Sample ID:	410-45147-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	28	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

16 Acetone, CAS: 67-64-1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0 Lab Sample ID: 410-45147-8

Matrix: Water Lab File ID: CL06X29.D

Analysis Method: 8260D Date Collected: 06/24/2021 10:05

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 20:16

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 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	0.12	J	0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	0.085	J	0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND	^c	5.0	0.60
591-78-6	2-Hexanone	ND	^c	5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70
67-64-1	Acetone	1.1	J	5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	0.28	J	0.50	0.090
74-87-3	Chloromethane	ND	^c *+	0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.81		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	3.5		0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	1.1		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0 Lab Sample ID: 410-45147-8

Matrix: Water Lab File ID: CL06X29.D

Analysis Method: 8260D Date Collected: 06/24/2021 10:05

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 20:16

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND	^c *+	0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

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)	100		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X29.D
Lims ID: 410-45147-A-8
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 06-Jul-2021 20:16:30 ALS Bottle#: 29 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033571-024
Misc. Info.: 410-45147-A-8
Operator ID: SRK36897 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2021 13:09:33 Calib Date: 13-Apr-2021 23:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1661

First Level Reviewer: beckerk Date: 06-Jul-2021 22:56:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
3 Chloromethane	50		2.081				ND	7
5 Vinyl chloride	62		2.184				ND	
6 Bromomethane	94		2.495				ND	
7 Chloroethane	64		2.568				ND	
14 1,1-Dichloroethene	96	3.379	3.373	0.006	95	4094	0.0853	
16 Acetone	43	3.410	3.403	0.007	87	5920	1.07	
20 Carbon disulfide	76		3.684				ND	7
24 Methylene Chloride	84		3.989				ND	7
* 25 t-Butyl alcohol-d10 (IS)	65	4.068	4.044	0.024	95	119381	50.0	
28 Methyl tert-butyl ether	73	4.373	4.373	0.000	86	6729	0.0425	
29 trans-1,2-Dichloroethene	96		4.379				ND	
32 1,1-Dichloroethane	63		5.049				ND	
36 2-Butanone (MEK)	43		5.860				ND	
37 cis-1,2-Dichloroethene	96	5.891	5.891	0.000	81	50397	0.8134	
44 Chlorobromomethane	128		6.226				ND	
46 Chloroform	83	6.372	6.378	-0.006	93	27842	0.2791	
$ 47 Dibromofluoromethane (Surr)	113	6.592	6.598	-0.006	93	493506	9.96	
48 1,1,1-Trichloroethane	97	6.586	6.598	-0.012	35	10137	0.1155	a
50 Carbon tetrachloride	117		6.805				ND	7
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.043	7.055	-0.012	99	106614	10.4	
54 Benzene	78		7.080				ND	7
55 1,2-Dichloroethane	62		7.159				ND	
* 57 Fluorobenzene (IS)	96	7.482	7.494	-0.012	98	2092450	10.0	
60 Trichloroethene	95	7.970	7.976	-0.006	97	67733	1.13	
62 1,2-Dichloropropane	63		8.305				ND	
67 Dichlorobromomethane	83		8.665				ND	7
72 cis-1,3-Dichloropropene	75		9.225				ND	
73 4-Methyl-2-pentanone (MIBK)	43		9.414				ND	7
$ 74 Toluene-d8 (Surr)	98	9.543	9.542	0.000	95	2105260	9.98	
75 Toluene	92		9.622				ND	7
76 trans-1,3-Dichloropropene	75		9.896				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
79 1,1,2-Trichloroethane	97		10.103				ND	7
80 Tetrachloroethene	166	10.189	10.189	0.000	97	226382	3.47	
82 2-Hexanone	43		10.335				ND	
83 Chlorodibromomethane	129		10.487				ND	
84 Ethylene Dibromide	107		10.597				ND	
* 85 Chlorobenzene-d5 (IS)	117	11.042	11.042	0.000	88	1577092	10.0	
87 Chlorobenzene	112		11.067				ND	
89 1,1,1,2-Tetrachloroethane	131		11.152				ND	
90 Ethylbenzene	91		11.158				ND	
S 88 Xylenes, Total	106		11.245				ND	7
91 m-Xylene & p-Xylene	106		11.274				ND	7
92 o-Xylene	106		11.609				ND	7
93 Styrene	104		11.627				ND	
94 Bromoform	173		11.786				ND	
$ 98 4-Bromofluorobenzene (Surr)	95	12.060	12.060	0.000	89	776651	9.61	
99 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 113 1,4-Dichlorobenzene-d4	152	12.956	12.956	0.000	96	872772	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

MSV_HP25_ISSS_00029 Amount Added: 1.00 Units: uL Run Reagent

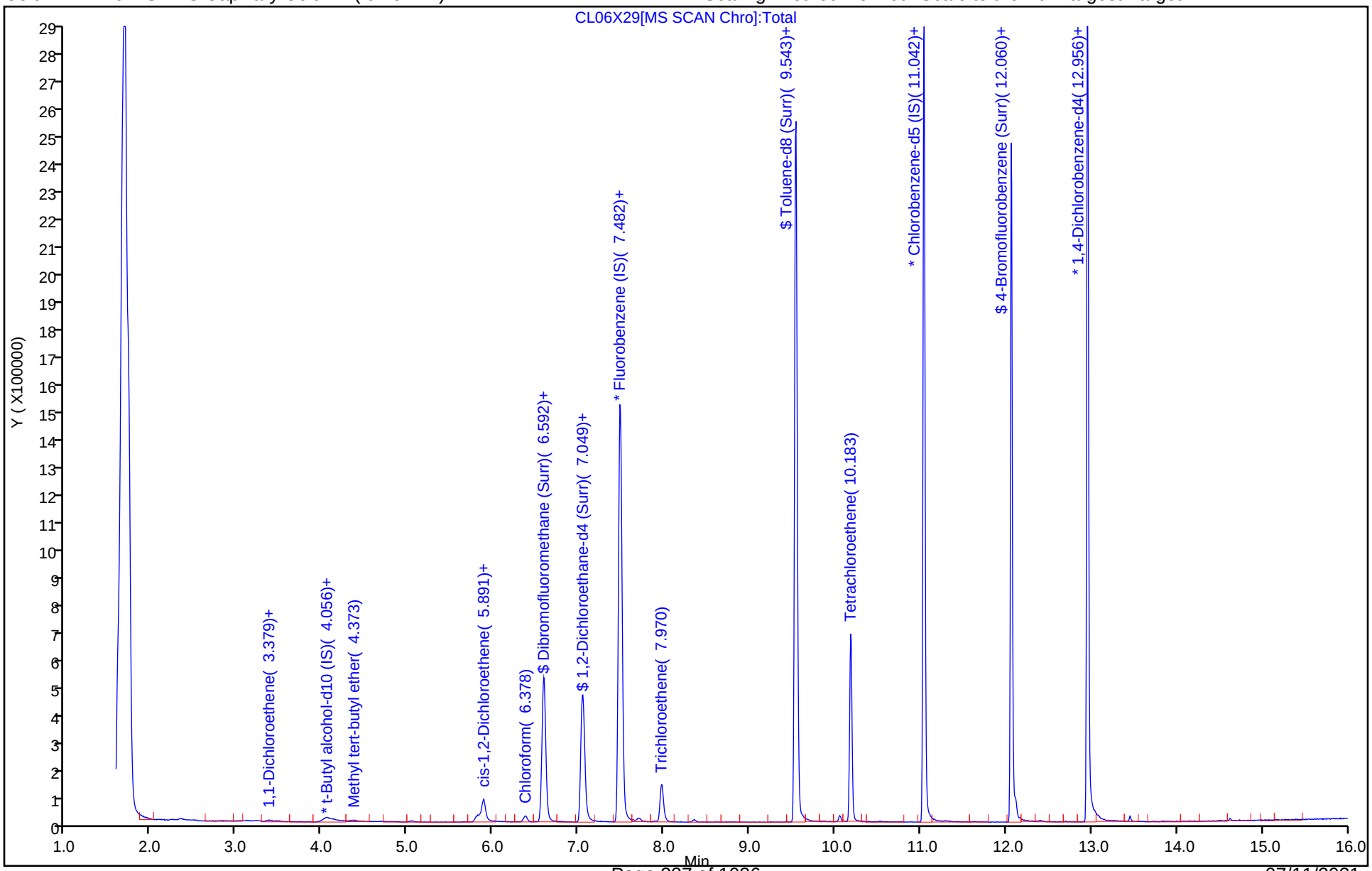
Report Date: 07-Jul-2021 13:09:34 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X29.D

Injection Date:	06-Jul-2021 20:16:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	410-45147-A-8	Lab Sample ID:	410-45147-8	Worklist Smp#:	24
Client ID:	HD-COD-SW-17-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X29.D				
Lims ID:	410-45147-A-8				
Client ID:	HD-COD-SW-17-0/1-0				
Sample Type:	Client				
Inject. Date:	06-Jul-2021 20:16:30	ALS Bottle#:	29	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0033571-024				
Misc. Info.:	410-45147-A-8				
Operator ID:	SRK36897	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Jul-2021 13:09:33	Calib Date:	13-Apr-2021 23:14:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1661				

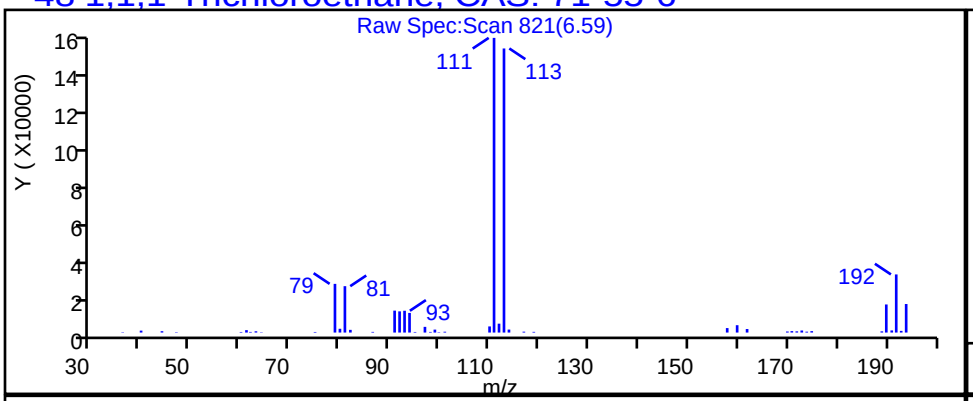
First Level Reviewer: beckerk Date: 06-Jul-2021 22:56:45

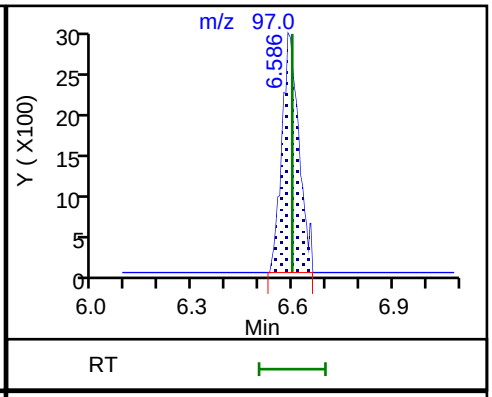
Compound	Amount Added	Amount Recovered	% Rec.
$ 47 Dibromofluoromethane (Surr)	10.0	9.96	99.61
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.48
$ 74 Toluene-d8 (Surr)	10.0	9.98	99.79
$ 98 4-Bromofluorobenzene (Surr)	10.0	9.61	96.11

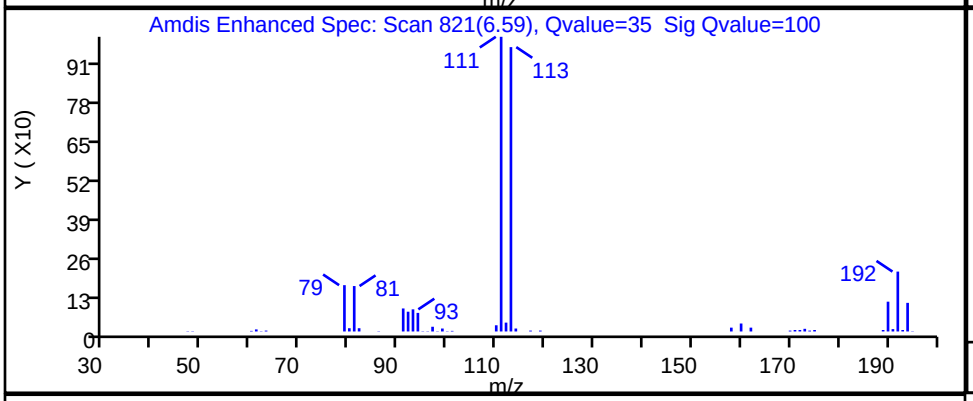
Eurofins Lancaster Laboratories Env, LLC

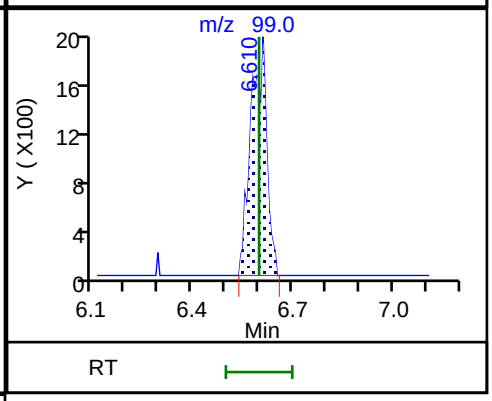
Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X29.D				
Injection Date:	06-Jul-2021 20:16:30	Instrument ID:	10193		
Lims ID:	410-45147-A-8	Lab Sample ID:	410-45147-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	29	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

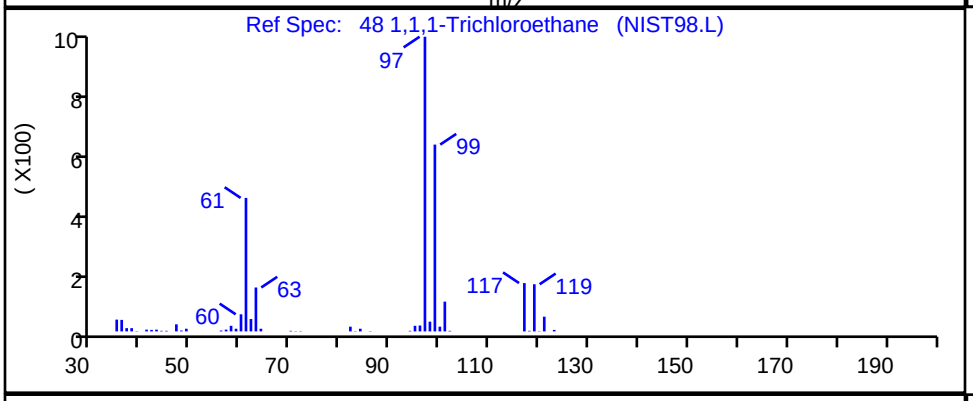
48 1,1,1-Trichloroethane, CAS: 71-55-6

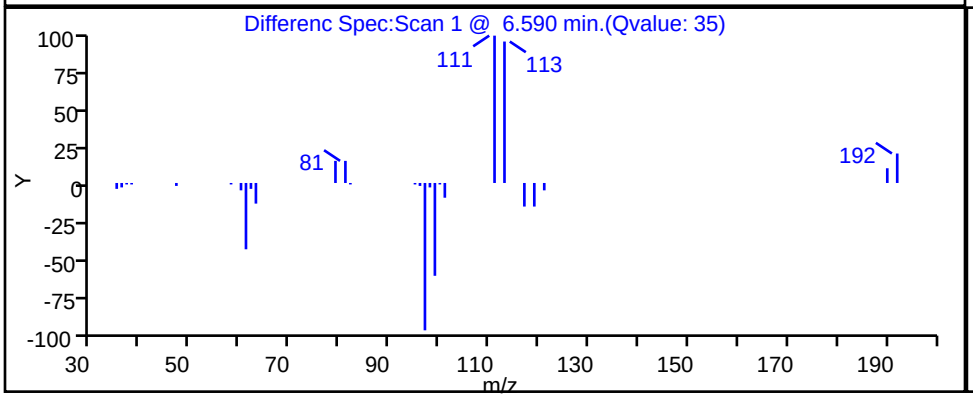


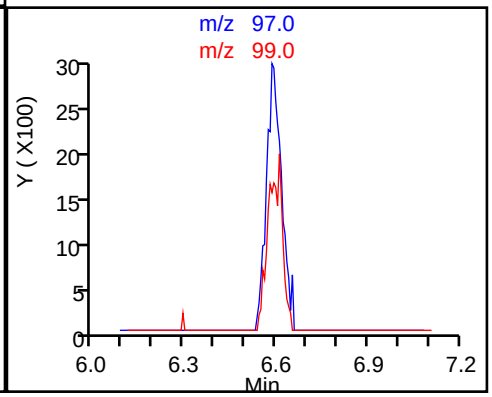












Report Date: 07-Jul-2021 13:09:34 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X29.D

Injection Date: 06-Jul-2021 20:16:30 Instrument ID: 10193

Lims ID: 410-45147-A-8 Lab Sample ID: 410-45147-8

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

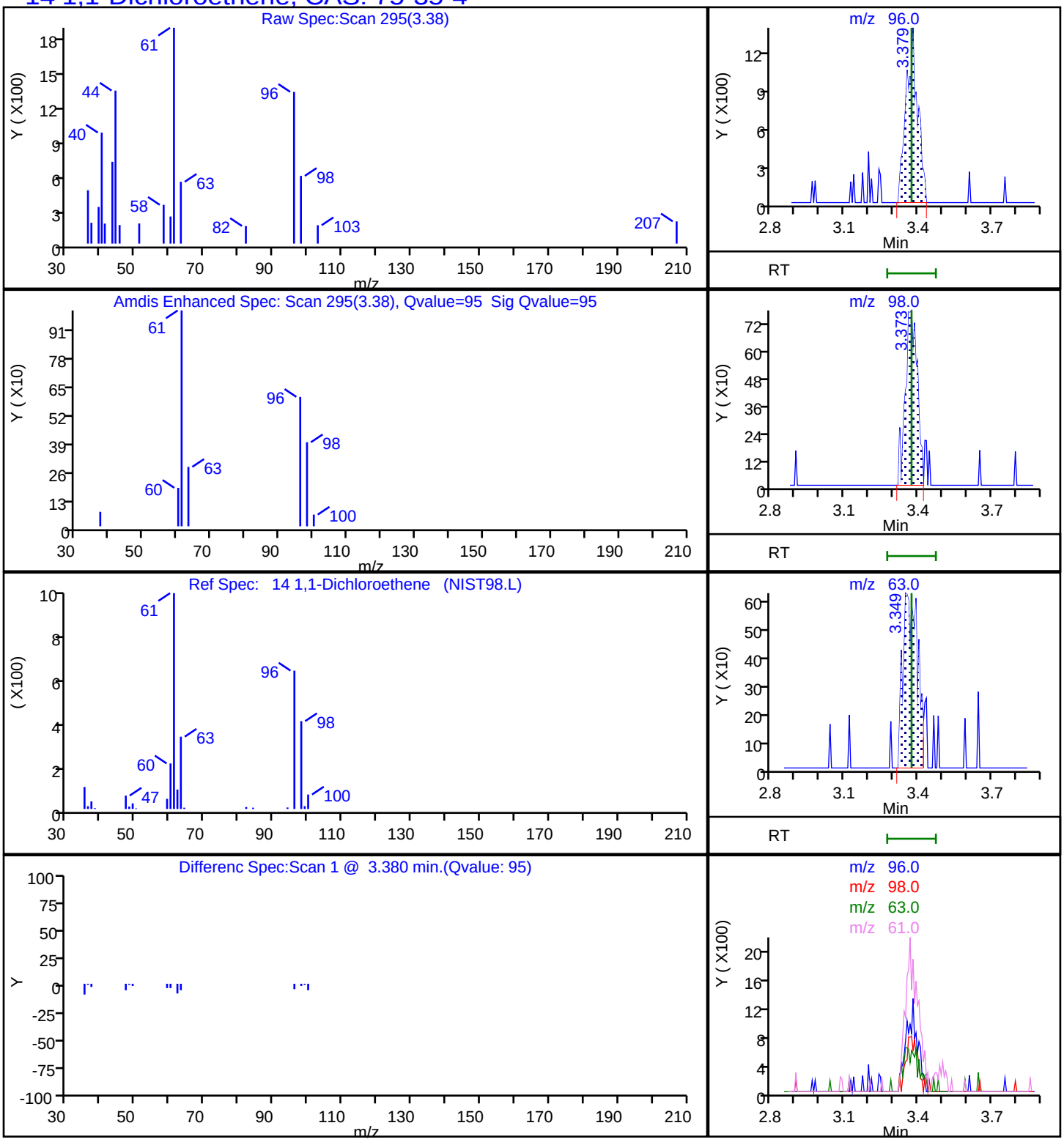
Operator ID: SRK36897 ALS Bottle#: 29 Worklist Smp#: 24

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

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

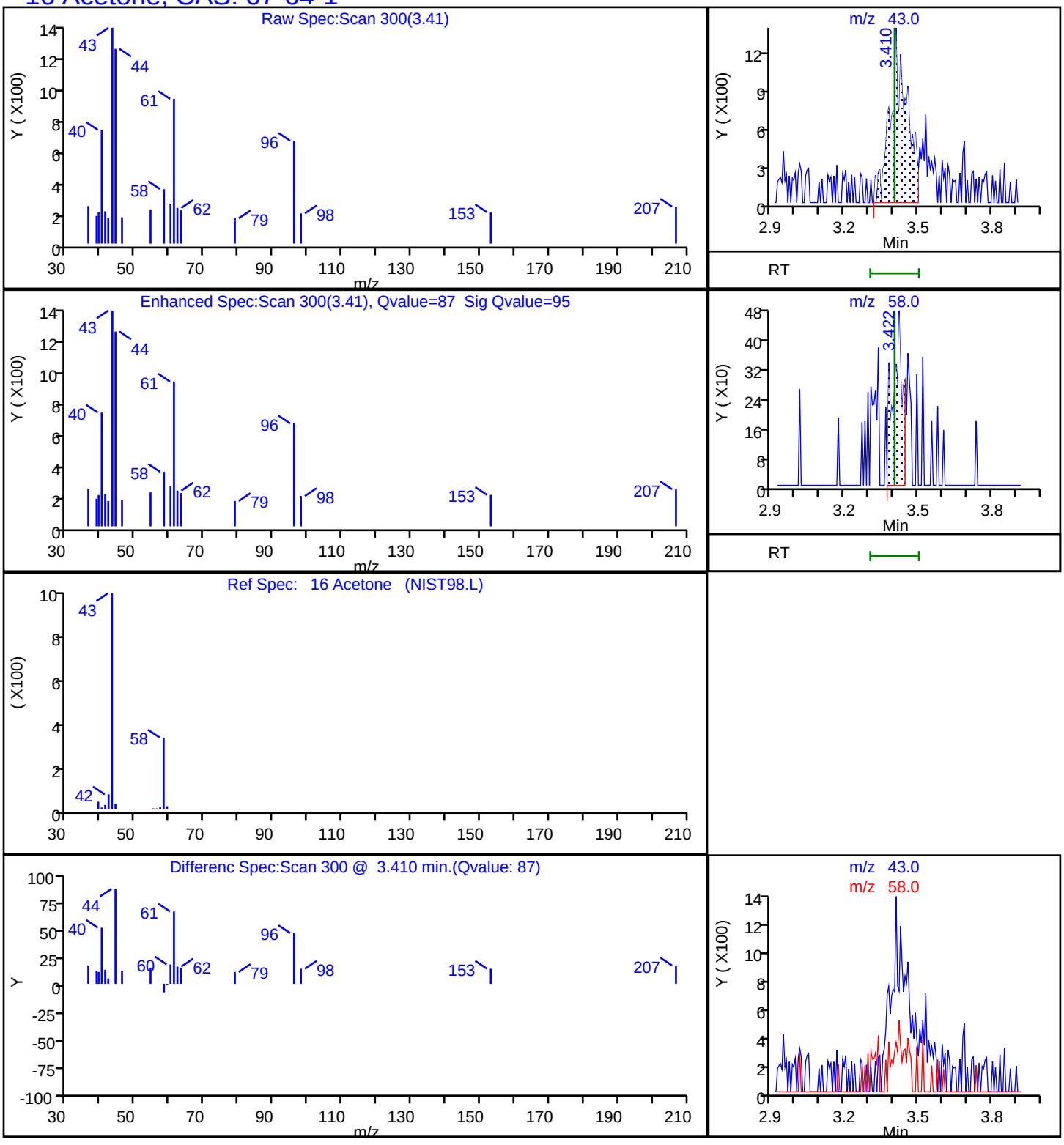
14 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X29.D				
Injection Date:	06-Jul-2021 20:16:30	Instrument ID:	10193		
Lims ID:	410-45147-A-8	Lab Sample ID:	410-45147-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	29	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

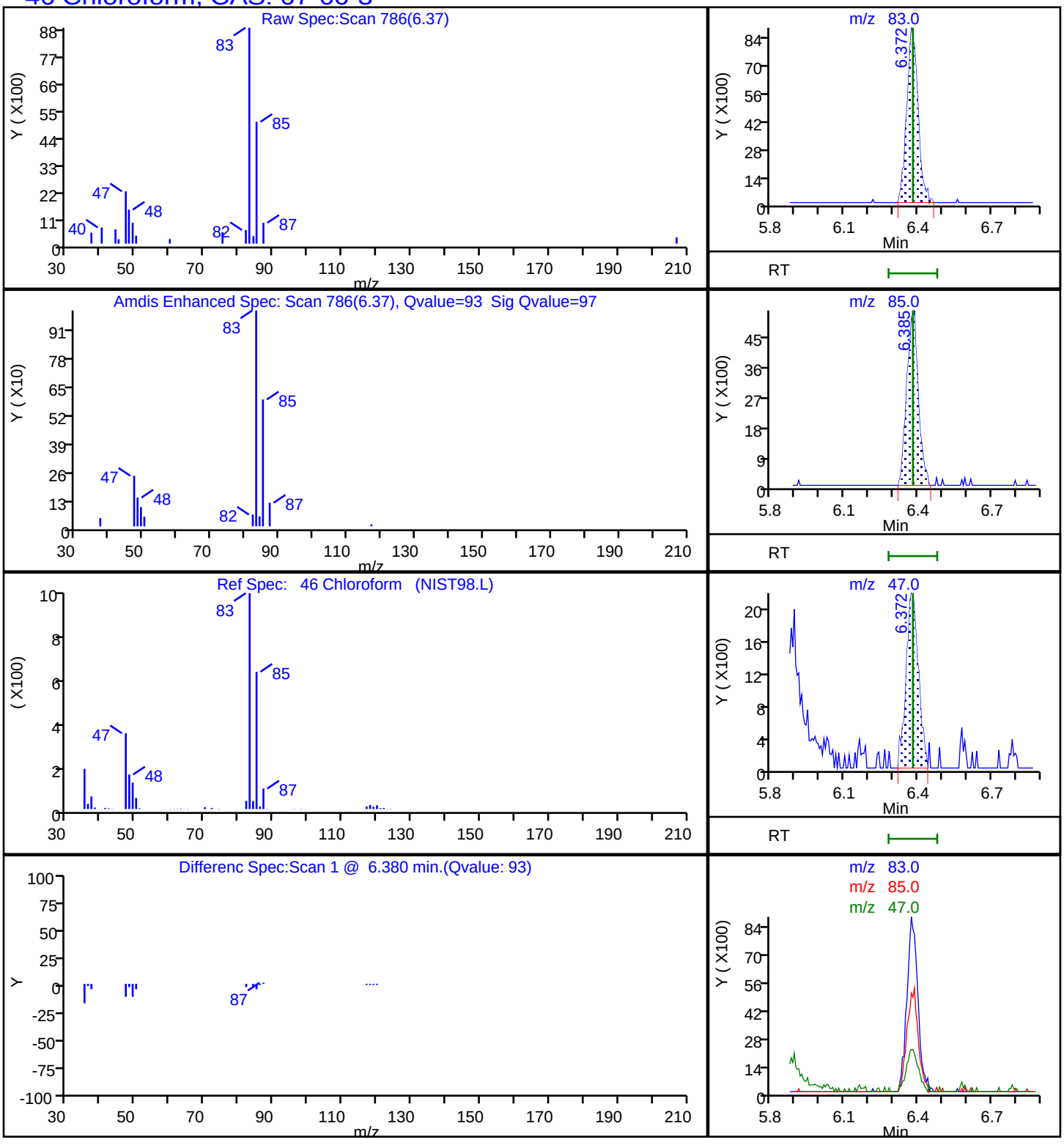
16 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X29.D				
Injection Date:	06-Jul-2021 20:16:30	Instrument ID:	10193		
Lims ID:	410-45147-A-8	Lab Sample ID:	410-45147-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	29	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

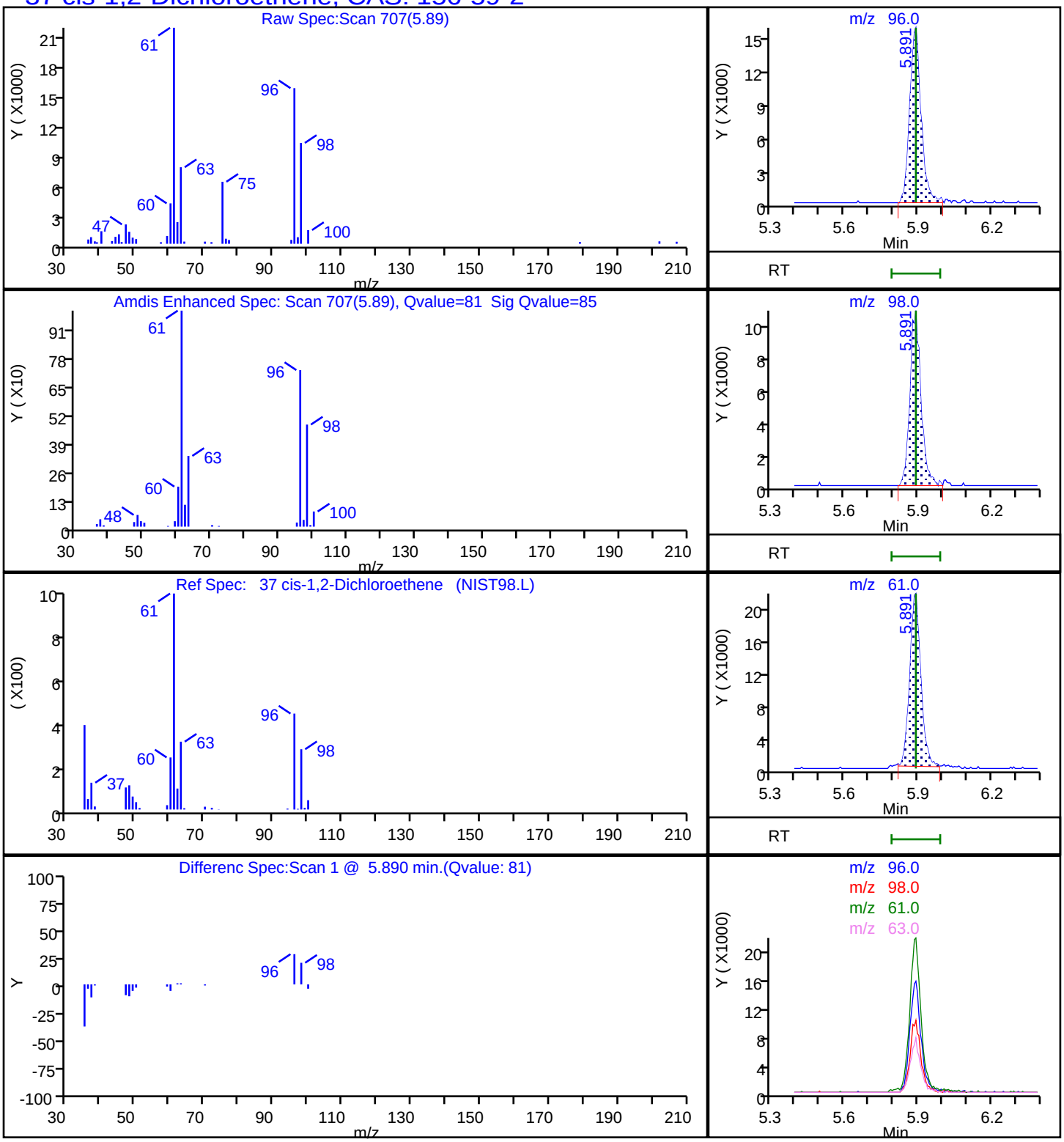
46 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X29.D				
Injection Date:	06-Jul-2021 20:16:30	Instrument ID:	10193		
Lims ID:	410-45147-A-8	Lab Sample ID:	410-45147-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	29	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

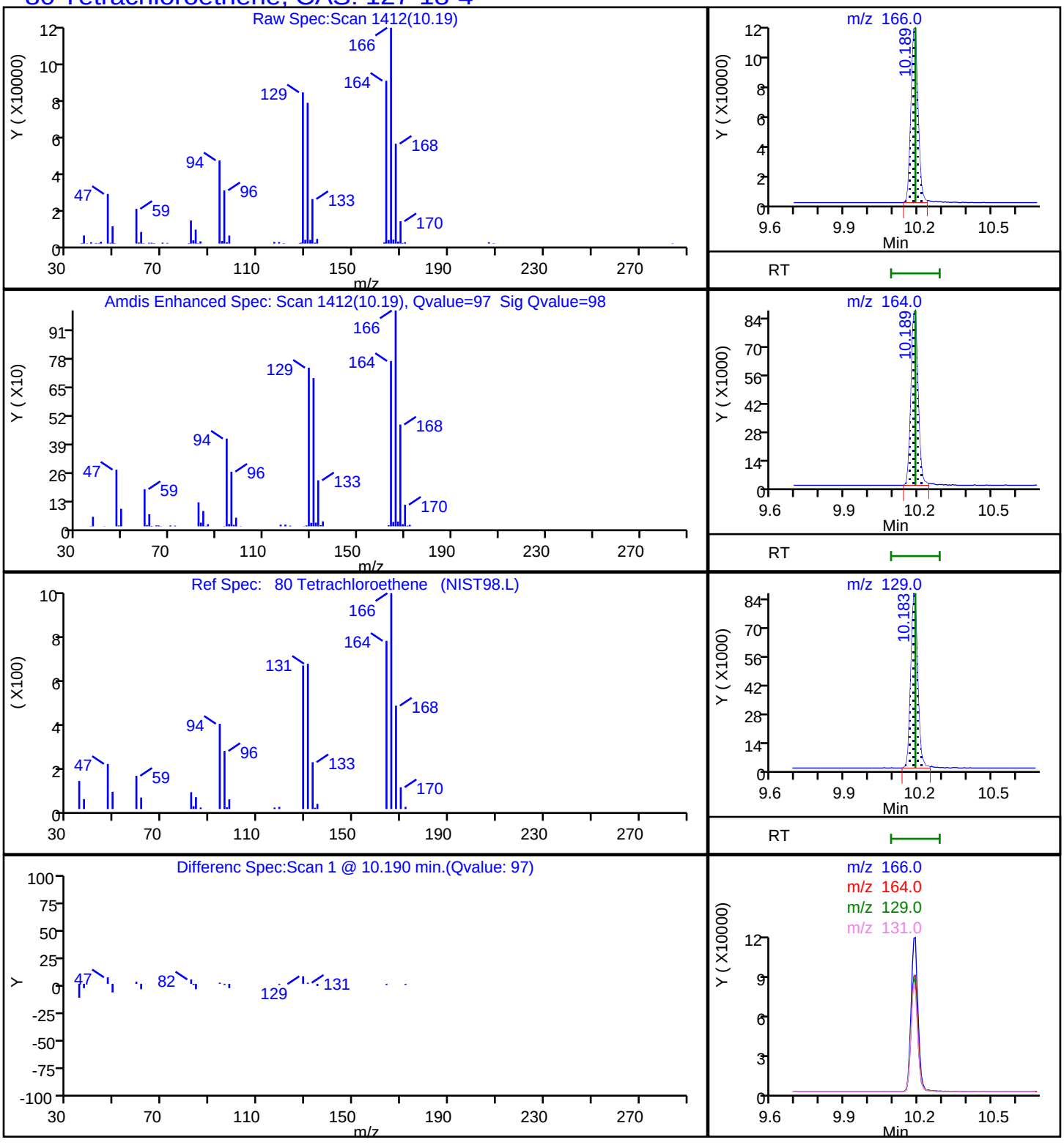
37 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X29.D
Injection Date: 06-Jul-2021 20:16:30 Instrument ID: 10193
Lims ID: 410-45147-A-8 Lab Sample ID: 410-45147-8
Client ID: HD-COD-SW-17-0/1-0
Operator ID: SRK36897 ALS Bottle#: 29 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

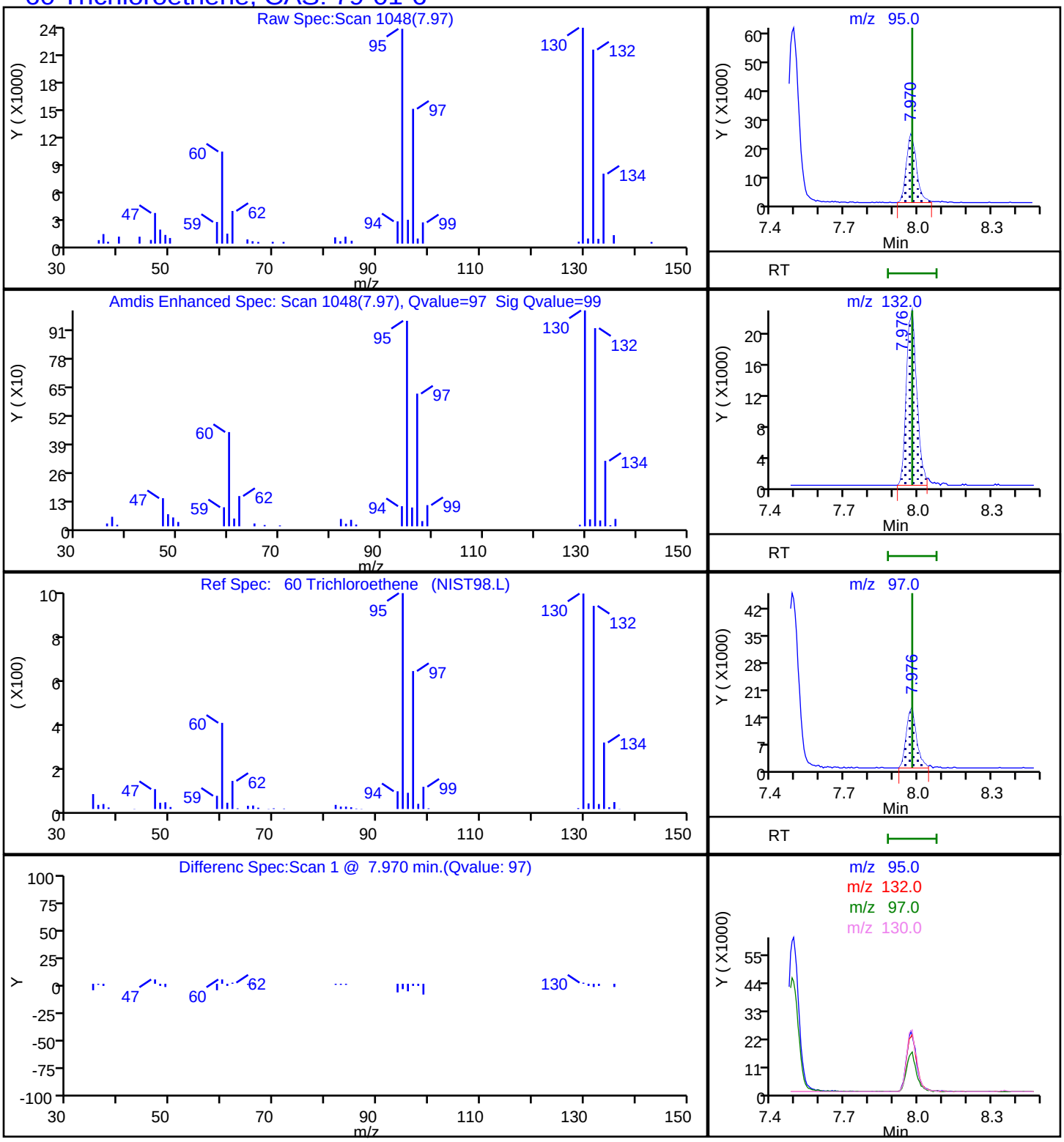
80 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X29.D				
Injection Date:	06-Jul-2021 20:16:30	Instrument ID:	10193		
Lims ID:	410-45147-A-8	Lab Sample ID:	410-45147-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	29	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

60 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

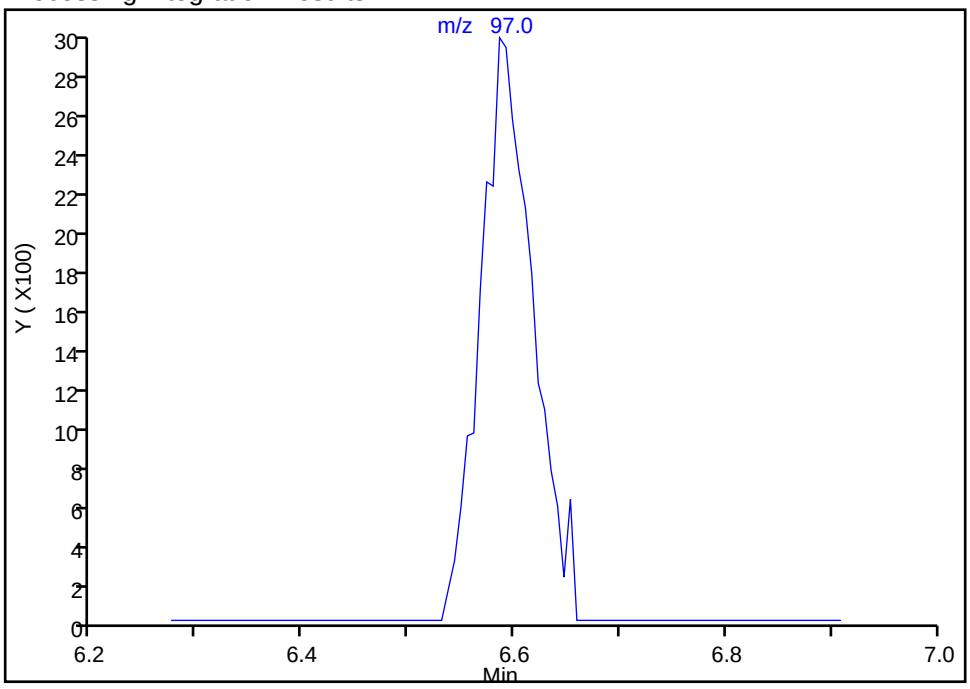
Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X29.D				
Injection Date:	06-Jul-2021 20:16:30	Instrument ID:	10193		
Lims ID:	410-45147-A-8	Lab Sample ID:	410-45147-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	29	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

48 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

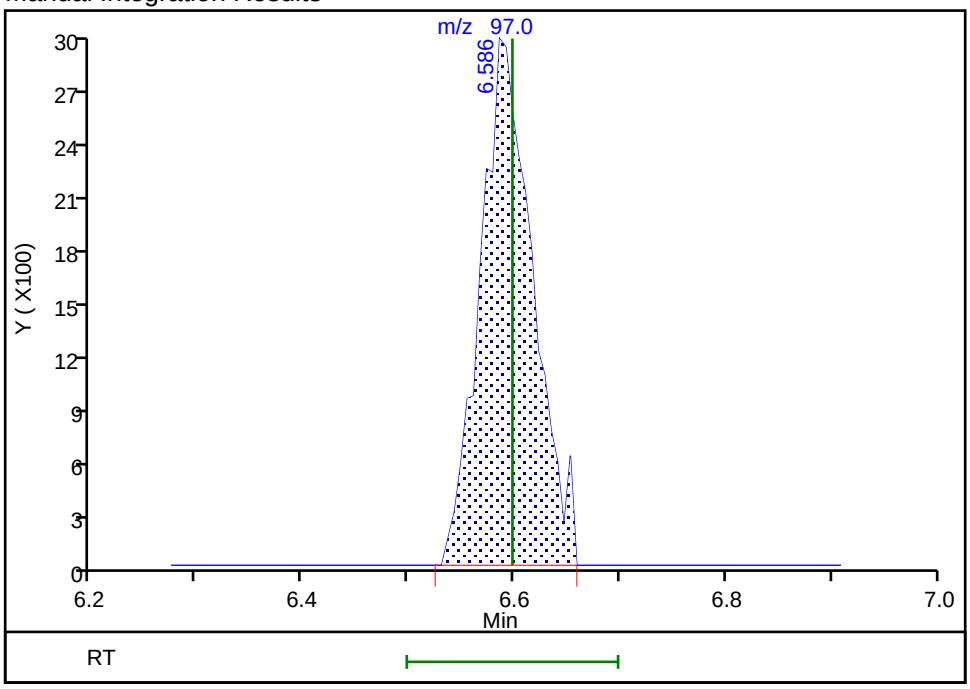
Not Detected
Expected RT: 6.60

Processing Integration Results



RT: 6.59
Area: 10137
Amount: 0.115486
Amount Units: ug/l

Manual Integration Results



Reviewer: innoonk, 07-Jul-2021 13:09:27
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-26-0/1-0 Lab Sample ID: 410-45147-9

Matrix: Water Lab File ID: CL06X30.D

Analysis Method: 8260D Date Collected: 06/24/2021 11:10

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 20:38

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	0.16	J	0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND	^c	5.0	0.60
591-78-6	2-Hexanone	ND	^c	5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70
67-64-1	Acetone	1.0	J	5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	0.60		0.50	0.090
74-87-3	Chloromethane	ND	*+ ^c	0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.080	J	0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	3.2		0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	0.16	J	0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-26-0/1-0 Lab Sample ID: 410-45147-9

Matrix: Water Lab File ID: CL06X30.D

Analysis Method: 8260D Date Collected: 06/24/2021 11:10

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 20:38

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND	*+ ^c	0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X30.D
Lims ID: 410-45147-A-9
Client ID: HD-COD-SW-26-0/1-0
Sample Type: Client
Inject. Date: 06-Jul-2021 20:38:30 ALS Bottle#: 30 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033571-025
Misc. Info.: 410-45147-A-9
Operator ID: SRK36897 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 22:57:35 Calib Date: 13-Apr-2021 23:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: beckerk Date: 06-Jul-2021 22:57:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
3 Chloromethane	50		2.081				ND	7
5 Vinyl chloride	62		2.184				ND	
6 Bromomethane	94		2.495				ND	
7 Chloroethane	64		2.568				ND	7
14 1,1-Dichloroethene	96	3.391	3.373	0.018	95	7781	0.1621	
16 Acetone	43	3.434	3.403	0.031	48	6538	1.04	
20 Carbon disulfide	76		3.684				ND	7
24 Methylene Chloride	84		3.989				ND	7
* 25 t-Butyl alcohol-d10 (IS)	65	4.025	4.044	-0.019	96	135893	50.0	
28 Methyl tert-butyl ether	73		4.373				ND	7
29 trans-1,2-Dichloroethene	96		4.379				ND	
32 1,1-Dichloroethane	63		5.049				ND	
36 2-Butanone (MEK)	43		5.860				ND	
37 cis-1,2-Dichloroethene	96	5.897	5.891	0.006	82	4927	0.0796	
44 Chlorobromomethane	128		6.226				ND	
46 Chloroform	83	6.379	6.378	0.001	94	59774	0.5996	
$ 47 Dibromofluoromethane (Surr)	113	6.598	6.598	0.000	93	490437	9.90	
48 1,1,1-Trichloroethane	97	6.598	6.598	0.000	35	3484	0.0397	
50 Carbon tetrachloride	117		6.805				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.055	7.055	0.000	100	104519	10.2	
54 Benzene	78		7.080				ND	
55 1,2-Dichloroethane	62		7.159				ND	
* 57 Fluorobenzene (IS)	96	7.488	7.494	-0.006	98	2091209	10.0	
60 Trichloroethene	95	7.976	7.976	0.000	94	9573	0.1599	
62 1,2-Dichloropropane	63		8.305				ND	
67 Dichlorobromomethane	83		8.665				ND	7
72 cis-1,3-Dichloropropene	75		9.225				ND	
73 4-Methyl-2-pentanone (MIBK)	43		9.414				ND	7
$ 74 Toluene-d8 (Surr)	98	9.543	9.542	0.001	94	2074785	9.79	
75 Toluene	92	9.628	9.622	0.006	96	5459	0.0353	
76 trans-1,3-Dichloropropene	75		9.896				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
79 1,1,2-Trichloroethane	97		10.103				ND	U
80 Tetrachloroethene	166	10.183	10.189	-0.006	96	210631	3.21	
82 2-Hexanone	43		10.335				ND	7
83 Chlorodibromomethane	129		10.487				ND	
84 Ethylene Dibromide	107		10.597				ND	
* 85 Chlorobenzene-d5 (IS)	117	11.042	11.042	0.000	88	1584559	10.0	
87 Chlorobenzene	112		11.067				ND	
89 1,1,1,2-Tetrachloroethane	131		11.152				ND	
90 Ethylbenzene	91		11.158				ND	7
S 88 Xylenes, Total	106		11.245				ND	7
91 m-Xylene & p-Xylene	106		11.274				ND	7
92 o-Xylene	106		11.609				ND	7
93 Styrene	104		11.627				ND	
94 Bromoform	173		11.786				ND	
$ 98 4-Bromofluorobenzene (Surr)	95	12.060	12.060	0.000	88	775803	9.56	
99 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 113 1,4-Dichlorobenzene-d4	152	12.957	12.956	0.001	96	864302	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

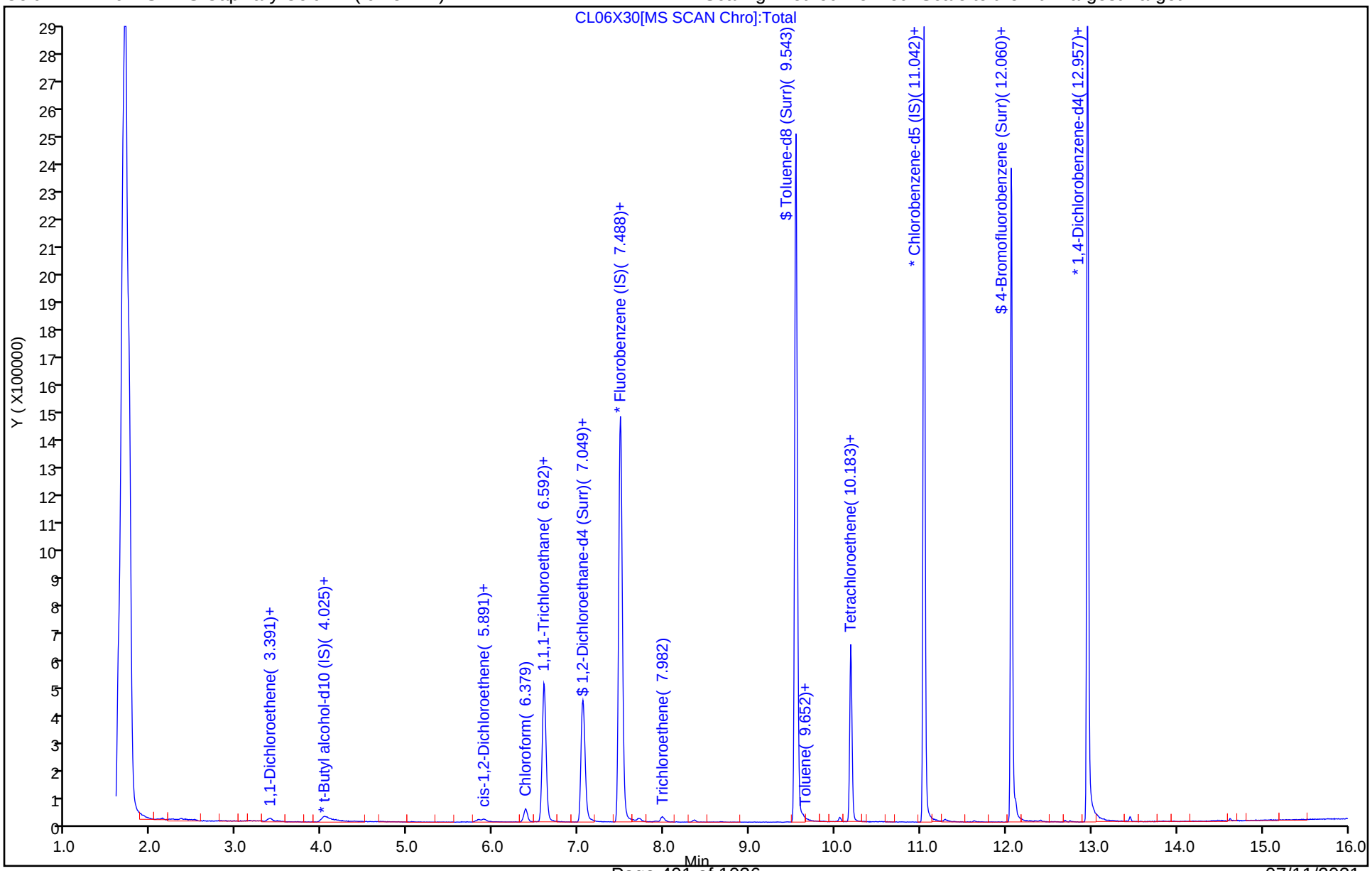
MSV_HP25_ISSS_00029 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 06-Jul-2021 22:58:20 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X30.D				
Injection Date:	06-Jul-2021 20:38:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	410-45147-A-9	Lab Sample ID:	410-45147-9	Worklist Smp#:	25
Client ID:	HD-COD-SW-26-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X30.D				
Lims ID:	410-45147-A-9				
Client ID:	HD-COD-SW-26-0/1-0				
Sample Type:	Client				
Inject. Date:	06-Jul-2021 20:38:30	ALS Bottle#:	30	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0033571-025				
Misc. Info.:	410-45147-A-9				
Operator ID:	SRK36897	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Jul-2021 22:57:35	Calib Date:	13-Apr-2021 23:14:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1659				

First Level Reviewer: beckerk Date: 06-Jul-2021 22:57:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 47 Dibromofluoromethane (Surr)	10.0	9.90	99.05
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.49
$ 74 Toluene-d8 (Surr)	10.0	9.79	97.88
$ 98 4-Bromofluorobenzene (Surr)	10.0	9.56	95.56

Report Date: 06-Jul-2021 22:58:20 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X30.D

Injection Date: 06-Jul-2021 20:38:30 Instrument ID: 10193

Lims ID: 410-45147-A-9 Lab Sample ID: 410-45147-9

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

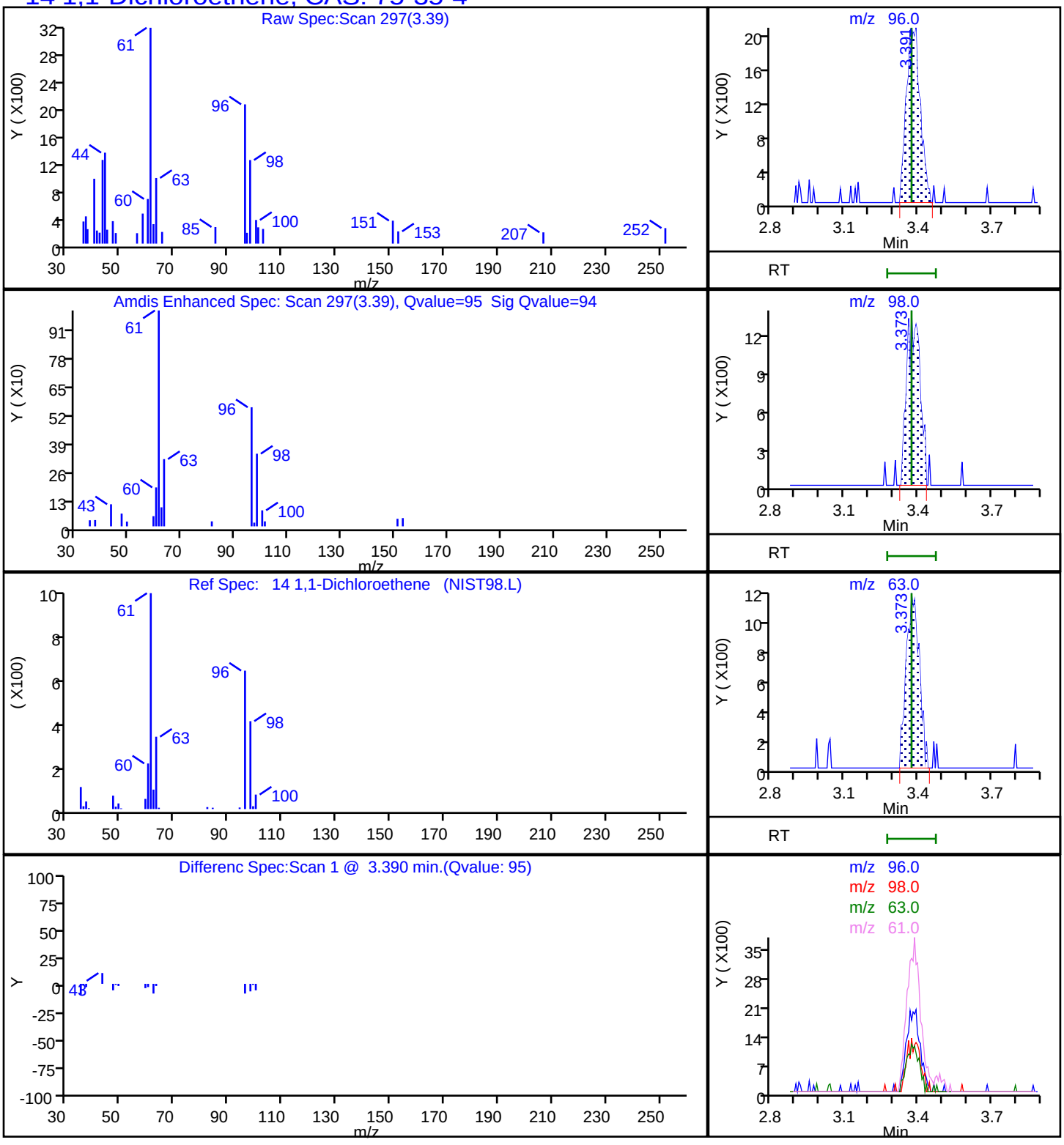
Operator ID: SRK36897 ALS Bottle#: 30 Worklist Smp#: 25

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

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

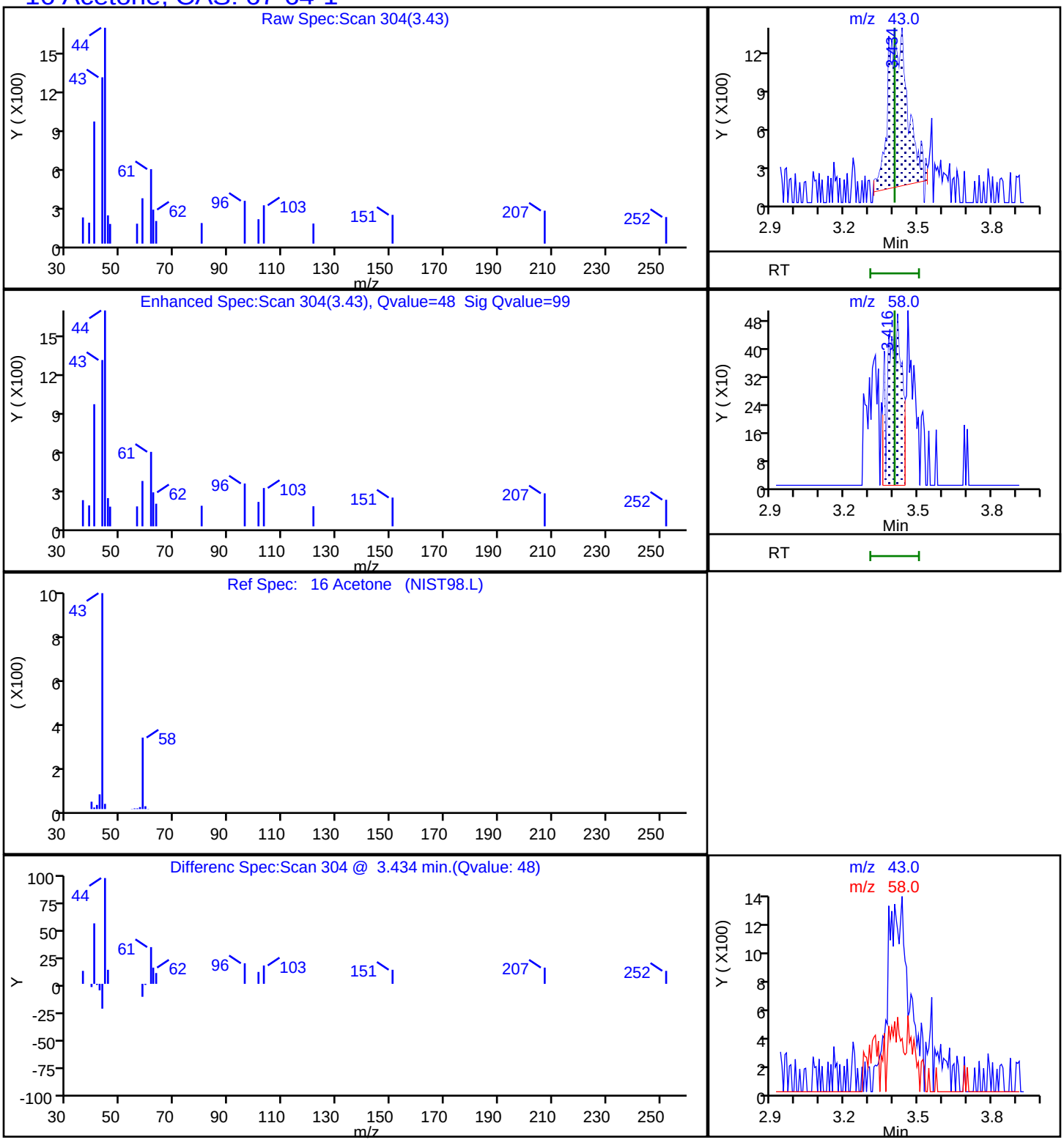
14 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X30.D				
Injection Date:	06-Jul-2021 20:38:30	Instrument ID:	10193		
Lims ID:	410-45147-A-9	Lab Sample ID:	410-45147-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	30	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

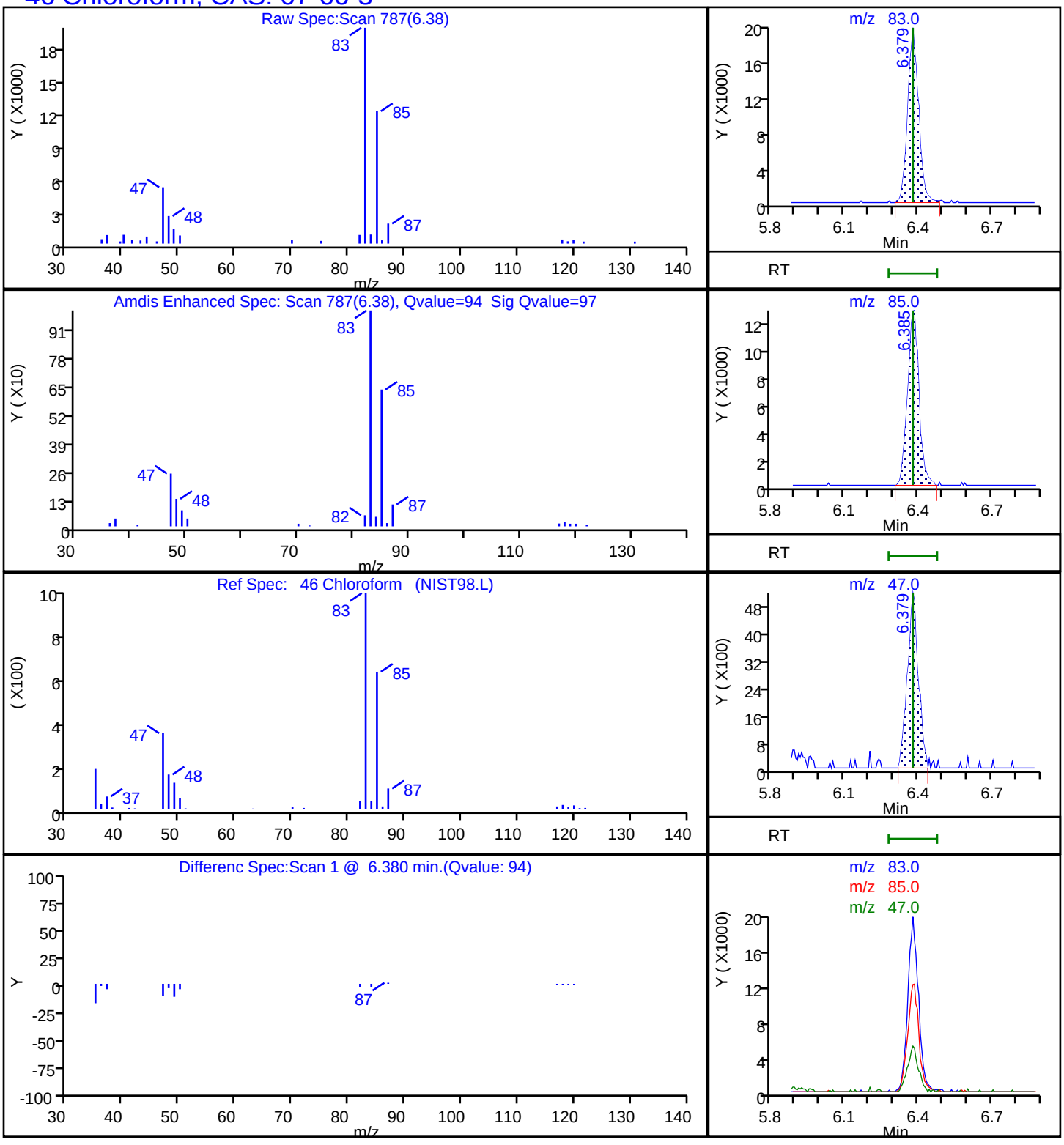
16 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X30.D				
Injection Date:	06-Jul-2021 20:38:30	Instrument ID:	10193		
Lims ID:	410-45147-A-9	Lab Sample ID:	410-45147-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	30	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

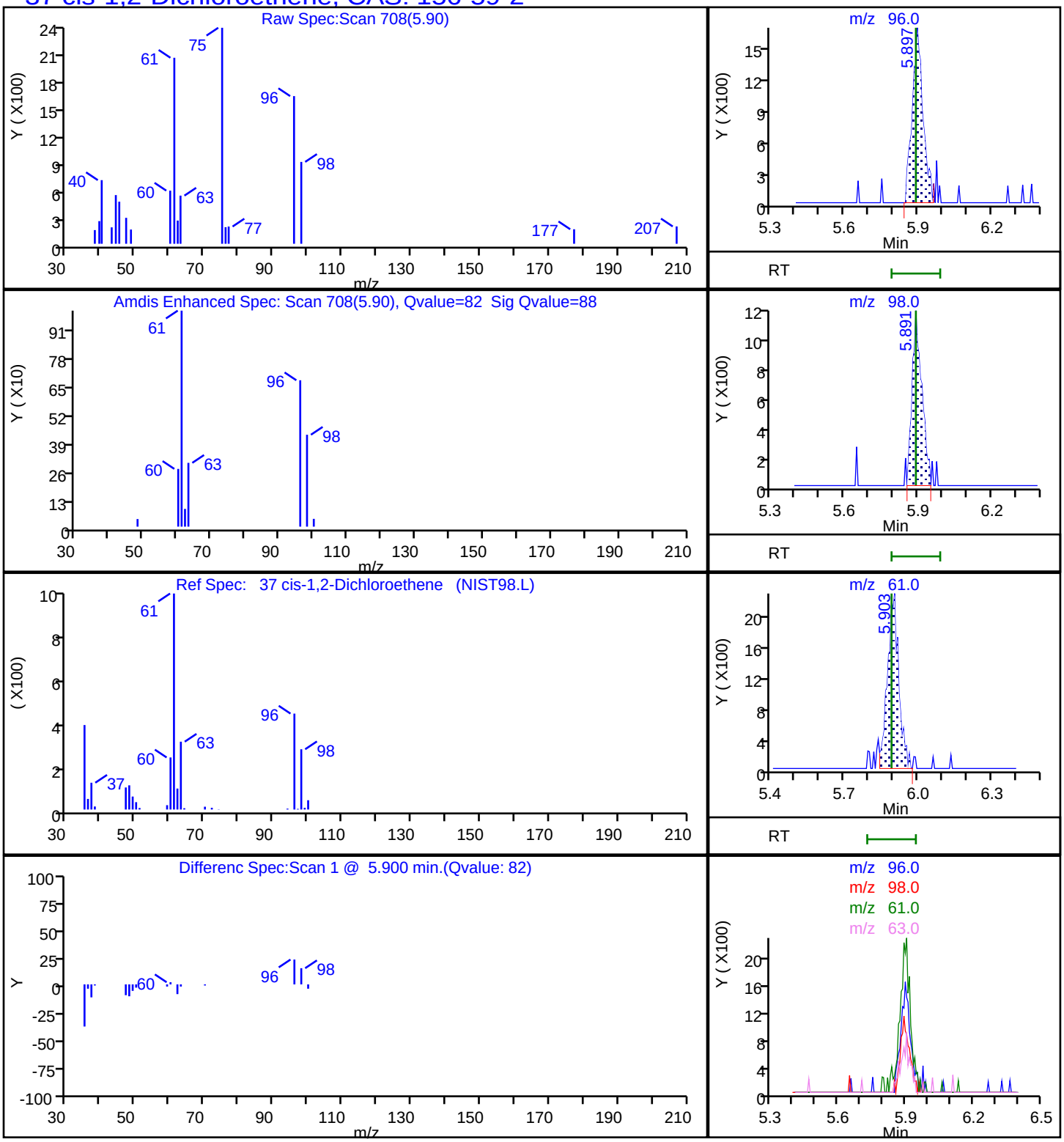
46 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X30.D				
Injection Date:	06-Jul-2021 20:38:30	Instrument ID:	10193		
Lims ID:	410-45147-A-9	Lab Sample ID:	410-45147-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	30	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

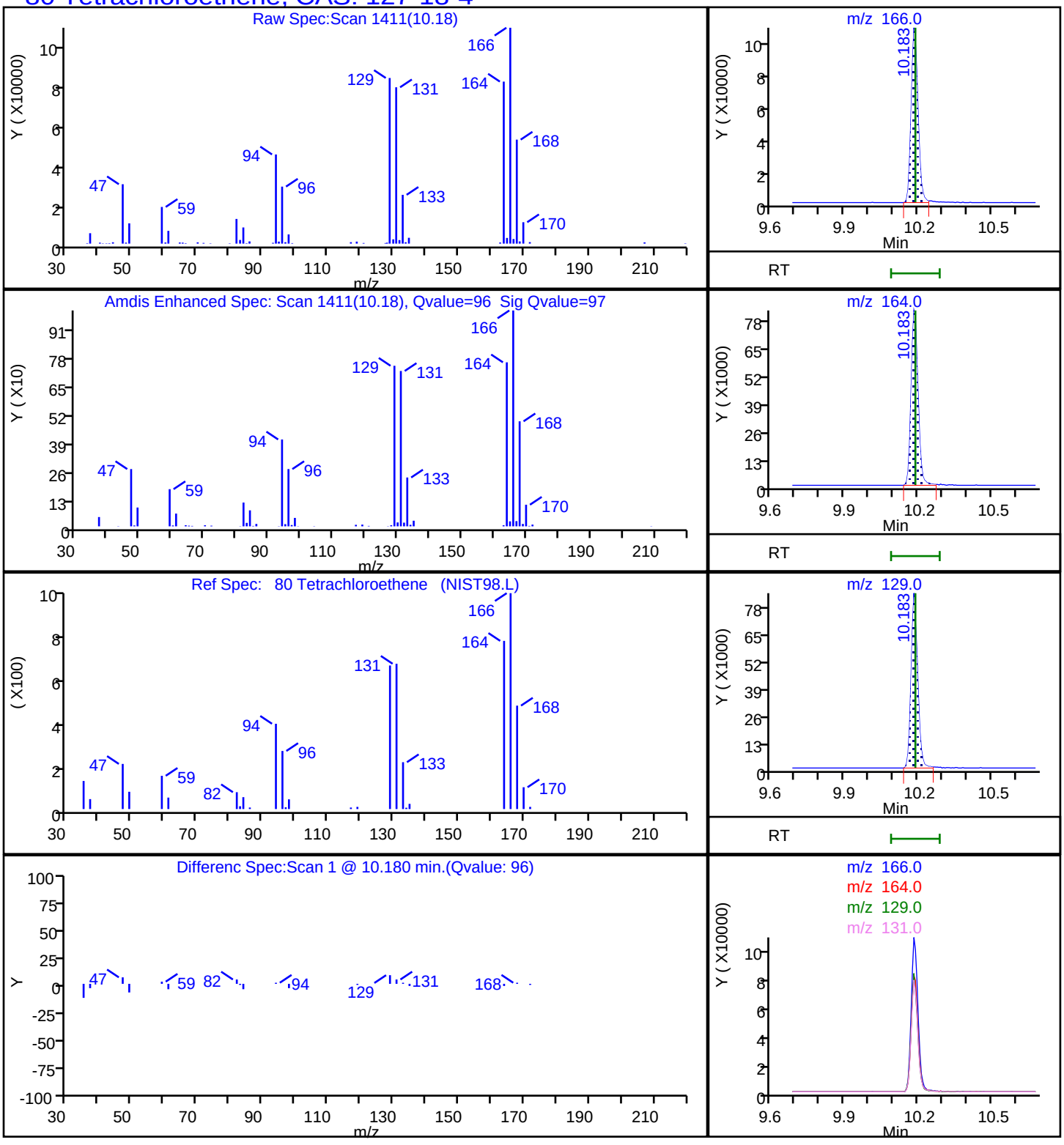
37 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X30.D
Injection Date: 06-Jul-2021 20:38:30 Instrument ID: 10193
Lims ID: 410-45147-A-9 Lab Sample ID: 410-45147-9
Client ID: HD-COD-SW-26-0/1-0
Operator ID: SRK36897 ALS Bottle#: 30 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

80 Tetrachloroethene, CAS: 127-18-4



Report Date: 06-Jul-2021 22:58:21 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X30.D

Injection Date: 06-Jul-2021 20:38:30 Instrument ID: 10193

Lims ID: 410-45147-A-9 Lab Sample ID: 410-45147-9

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

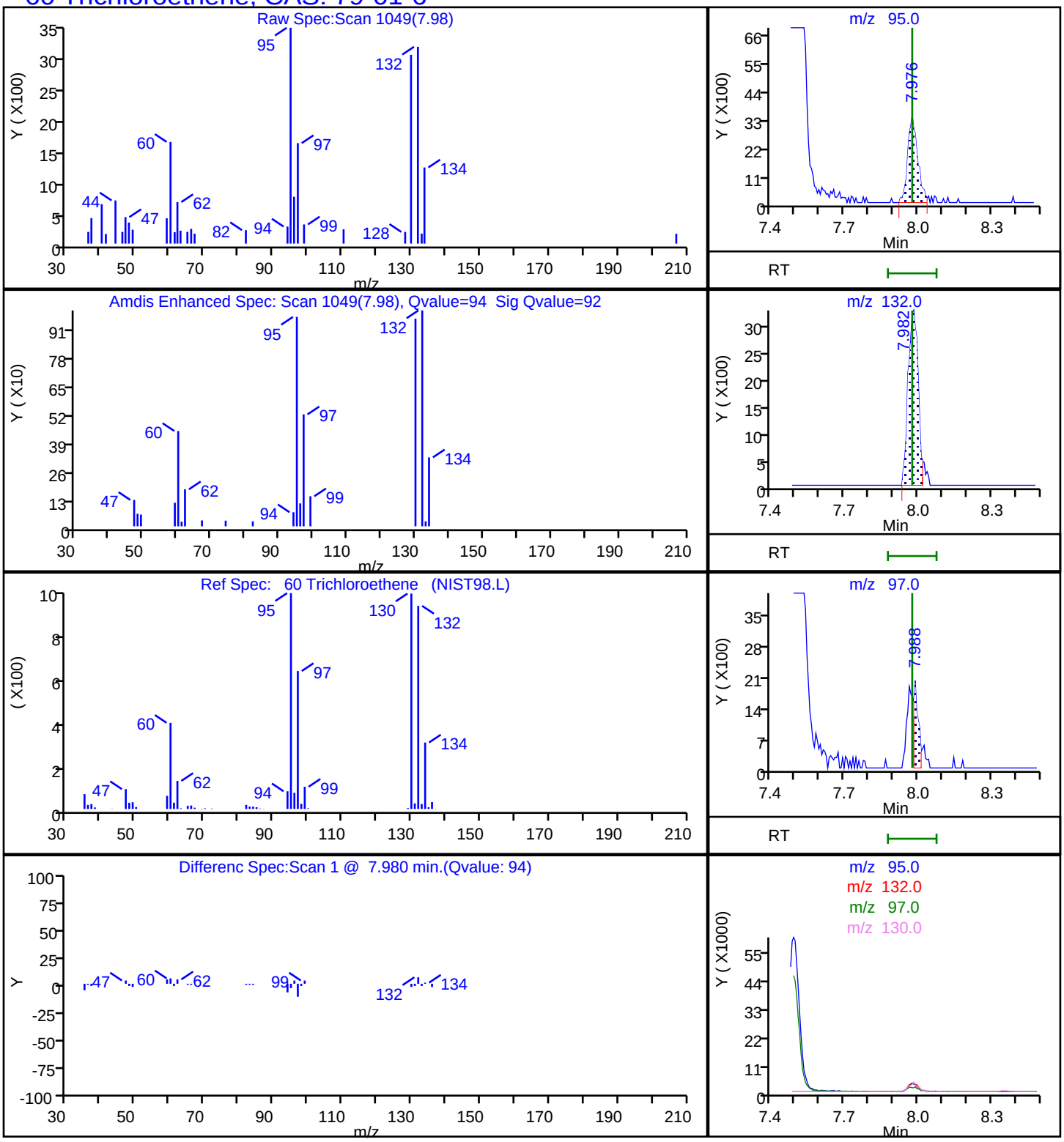
Operator ID: SRK36897 ALS Bottle#: 30 Worklist Smp#: 25

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

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

60 Trichloroethene, CAS: 79-01-6



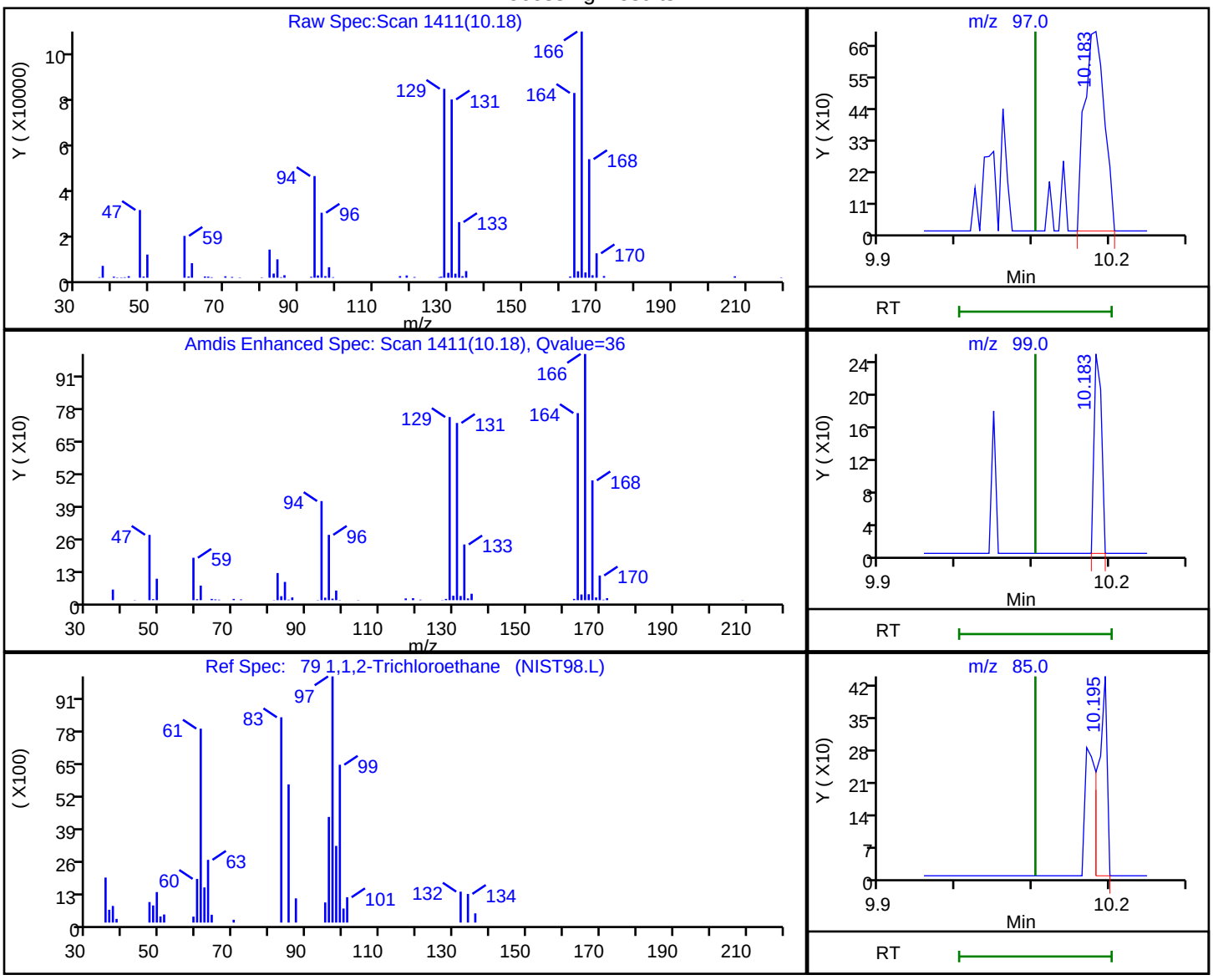
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X30.D				
Injection Date:	06-Jul-2021 20:38:30	Instrument ID:	10193		
Lims ID:	410-45147-A-9	Lab Sample ID:	410-45147-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	30	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

Processing Results



RT	Mass	Response	Amount
10.18	97.00	1275	0.029638
10.18	99.00	163	
10.19	85.00	341	
10.18	83.00	3447	

Reviewer: beckerk, 06-Jul-2021 22:56:56

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-27-0/1-0 Lab Sample ID: 410-45147-10

Matrix: Water Lab File ID: CL06X31.D

Analysis Method: 8260D Date Collected: 06/24/2021 11:30

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 21:00

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND	^c	5.0	0.60
591-78-6	2-Hexanone	ND	^c	5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70
67-64-1	Acetone	2.9	J	5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	0.063	J *+ ^c	0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.11	J	0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	ND		0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-27-0/1-0 Lab Sample ID: 410-45147-10

Matrix: Water Lab File ID: CL06X31.D

Analysis Method: 8260D Date Collected: 06/24/2021 11:30

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 21:00

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.50	0.060
75-01-4	Vinyl chloride	ND	*+ ^c	0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

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)	100		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X31.D
Lims ID: 410-45147-A-10
Client ID: HD-COD-SW-27-0/1-0
Sample Type: Client
Inject. Date: 06-Jul-2021 21:00:30 ALS Bottle#: 31 Worklist Smp#: 29
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033571-029
Misc. Info.: 410-45147-A-10
Operator ID: SRK36897 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 22:57:35 Calib Date: 13-Apr-2021 23:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: beckerk Date: 06-Jul-2021 22:57:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
3 Chloromethane	50	2.081	2.081	0.000	93	4387	0.0634	
5 Vinyl chloride	62		2.184				ND	7
6 Bromomethane	94		2.495				ND	7
7 Chloroethane	64		2.568				ND	7
14 1,1-Dichloroethene	96		3.373				ND	
16 Acetone	43	3.398	3.403	-0.005	97	24042	2.91	
20 Carbon disulfide	76		3.684				ND	7
24 Methylene Chloride	84		3.989				ND	7
* 25 t-Butyl alcohol-d10 (IS)	65	4.007	4.044	-0.037	94	178771	50.0	
28 Methyl tert-butyl ether	73		4.373				ND	7
29 trans-1,2-Dichloroethene	96		4.379				ND	
32 1,1-Dichloroethane	63		5.049				ND	
36 2-Butanone (MEK)	43		5.860				ND	
37 cis-1,2-Dichloroethene	96	5.891	5.891	0.000	83	6995	0.1114	
44 Chlorobromomethane	128		6.226				ND	
46 Chloroform	83	6.379	6.378	0.001	93	7965	0.0788	
$ 47 Dibromofluoromethane (Surr)	113	6.592	6.598	-0.006	93	500368	9.97	
48 1,1,1-Trichloroethane	97		6.598				ND	
50 Carbon tetrachloride	117		6.805				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.049	7.055	-0.006	99	107088	10.4	
54 Benzene	78		7.080				ND	7
55 1,2-Dichloroethane	62		7.159				ND	7
* 57 Fluorobenzene (IS)	96	7.488	7.494	-0.006	98	2120373	10.0	
60 Trichloroethene	95		7.976				ND	
62 1,2-Dichloropropane	63		8.305				ND	
67 Dichlorobromomethane	83		8.665				ND	7
72 cis-1,3-Dichloropropene	75		9.225				ND	
73 4-Methyl-2-pentanone (MIBK)	43		9.414				ND	7
$ 74 Toluene-d8 (Surr)	98	9.543	9.542	0.001	94	2139402	9.99	
75 Toluene	92	9.628	9.622	0.006	99	9259	0.0592	
76 trans-1,3-Dichloropropene	75		9.896				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
79 1,1,2-Trichloroethane	97		10.103				ND	
80 Tetrachloroethene	166	10.195	10.189	0.006	95	3339	0.0504	
82 2-Hexanone	43		10.335				ND	7
83 Chlorodibromomethane	129		10.487				ND	
84 Ethylene Dibromide	107		10.597				ND	
* 85 Chlorobenzene-d5 (IS)	117	11.042	11.042	0.000	87	1601125	10.0	
87 Chlorobenzene	112		11.067				ND	
89 1,1,1,2-Tetrachloroethane	131		11.152				ND	
90 Ethylbenzene	91		11.158				ND	7
S 88 Xylenes, Total	106		11.245				ND	7
91 m-Xylene & p-Xylene	106		11.274				ND	7
92 o-Xylene	106		11.609				ND	7
93 Styrene	104		11.627				ND	7
94 Bromoform	173		11.786				ND	7
$ 98 4-Bromofluorobenzene (Surr)	95	12.061	12.060	0.000	89	785446	9.57	
99 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 113 1,4-Dichlorobenzene-d4	152	12.957	12.956	0.001	96	884095	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP25_ISSS_00029 Amount Added: 1.00 Units: uL Run Reagent

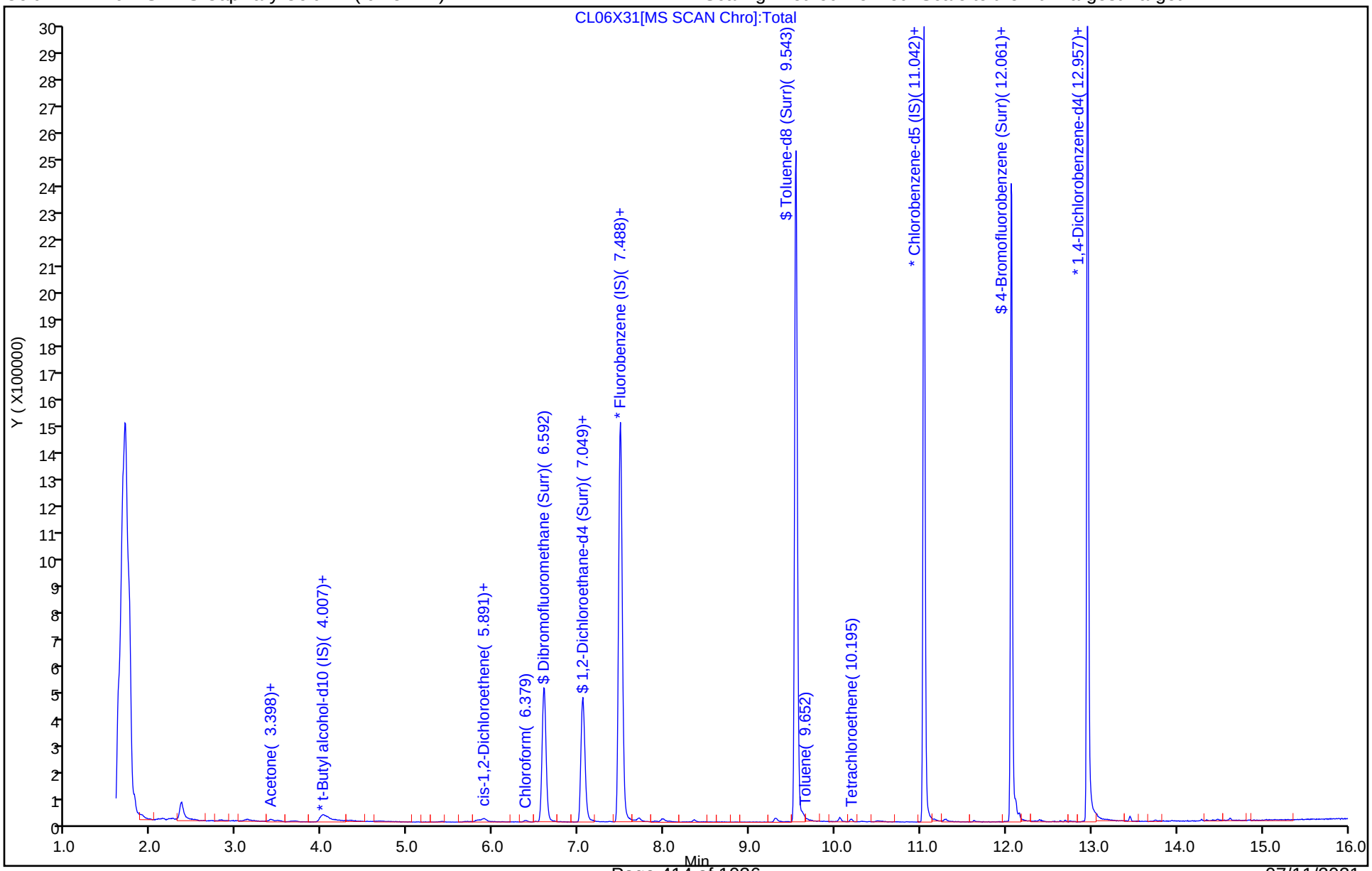
Report Date: 06-Jul-2021 22:58:28 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X31.D

Injection Date:	06-Jul-2021 21:00:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	410-45147-A-10	Lab Sample ID:	410-45147-10	Worklist Smp#:	29
Client ID:	HD-COD-SW-27-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X31.D				
Lims ID:	410-45147-A-10				
Client ID:	HD-COD-SW-27-0/1-0				
Sample Type:	Client				
Inject. Date:	06-Jul-2021 21:00:30	ALS Bottle#:	31	Worklist Smp#:	29
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0033571-029				
Misc. Info.:	410-45147-A-10				
Operator ID:	SRK36897	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Jul-2021 22:57:35	Calib Date:	13-Apr-2021 23:14:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1659				

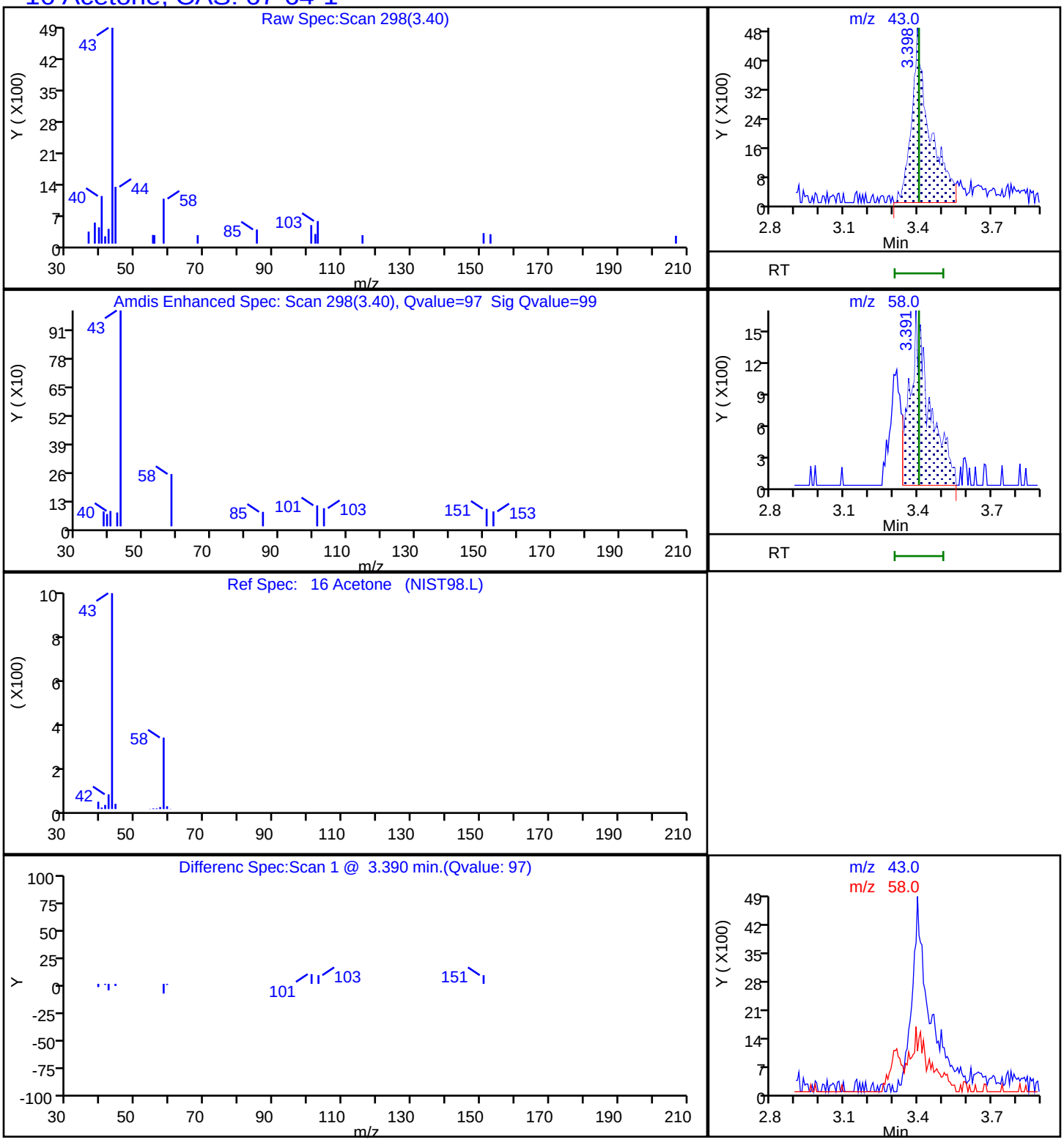
First Level Reviewer: beckerk Date: 06-Jul-2021 22:57:12

Compound	Amount Added	Amount Recovered	% Rec.
$ 47 Dibromofluoromethane (Surr)	10.0	9.97	99.66
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	103.57
$ 74 Toluene-d8 (Surr)	10.0	9.99	99.88
$ 98 4-Bromofluorobenzene (Surr)	10.0	9.57	95.74

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X31.D				
Injection Date:	06-Jul-2021 21:00:30	Instrument ID:	10193		
Lims ID:	410-45147-A-10	Lab Sample ID:	410-45147-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	31	Worklist Smp#:	29
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

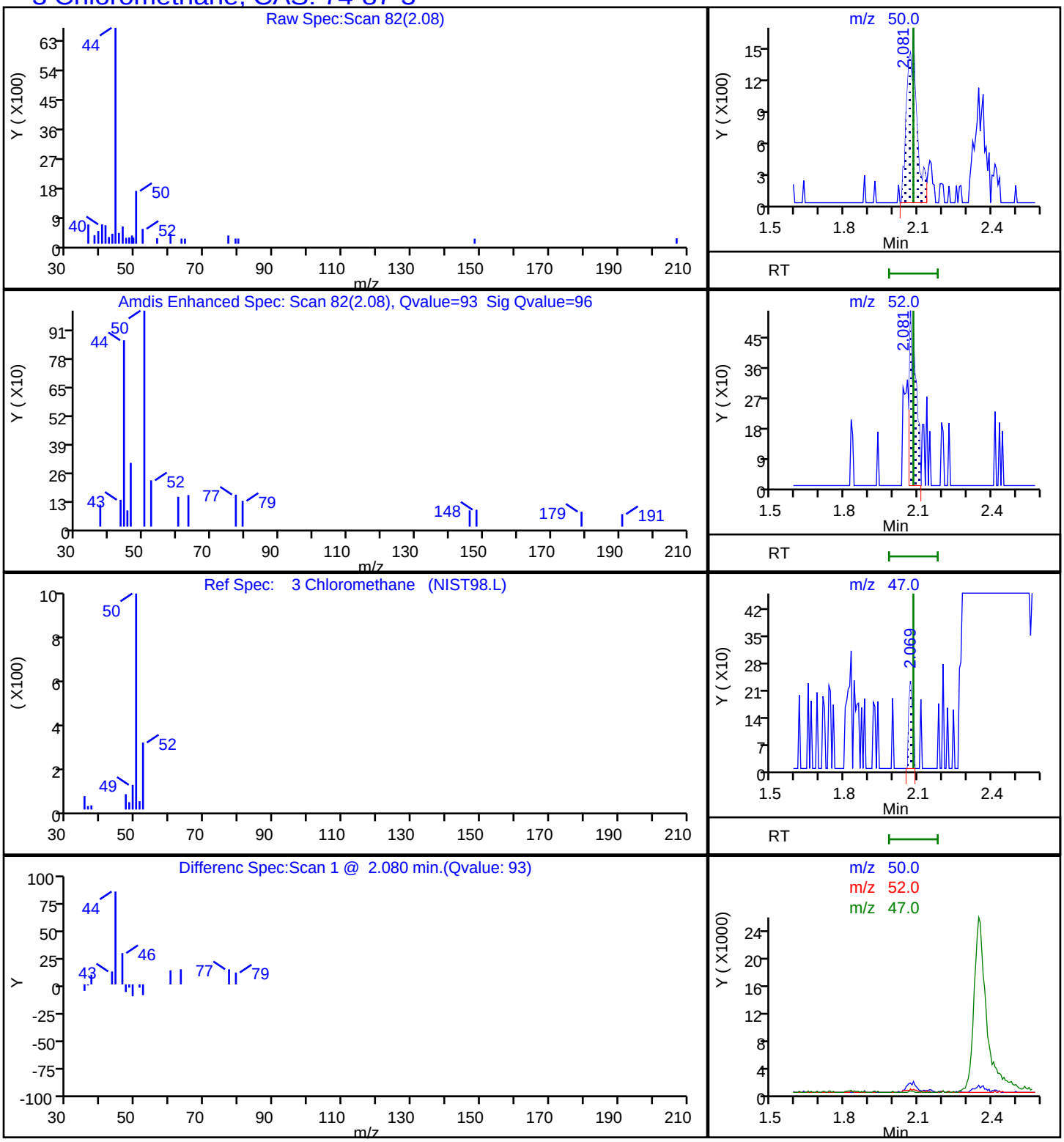
16 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X31.D				
Injection Date:	06-Jul-2021 21:00:30	Instrument ID:	10193		
Lims ID:	410-45147-A-10	Lab Sample ID:	410-45147-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	31	Worklist Smp#:	29
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

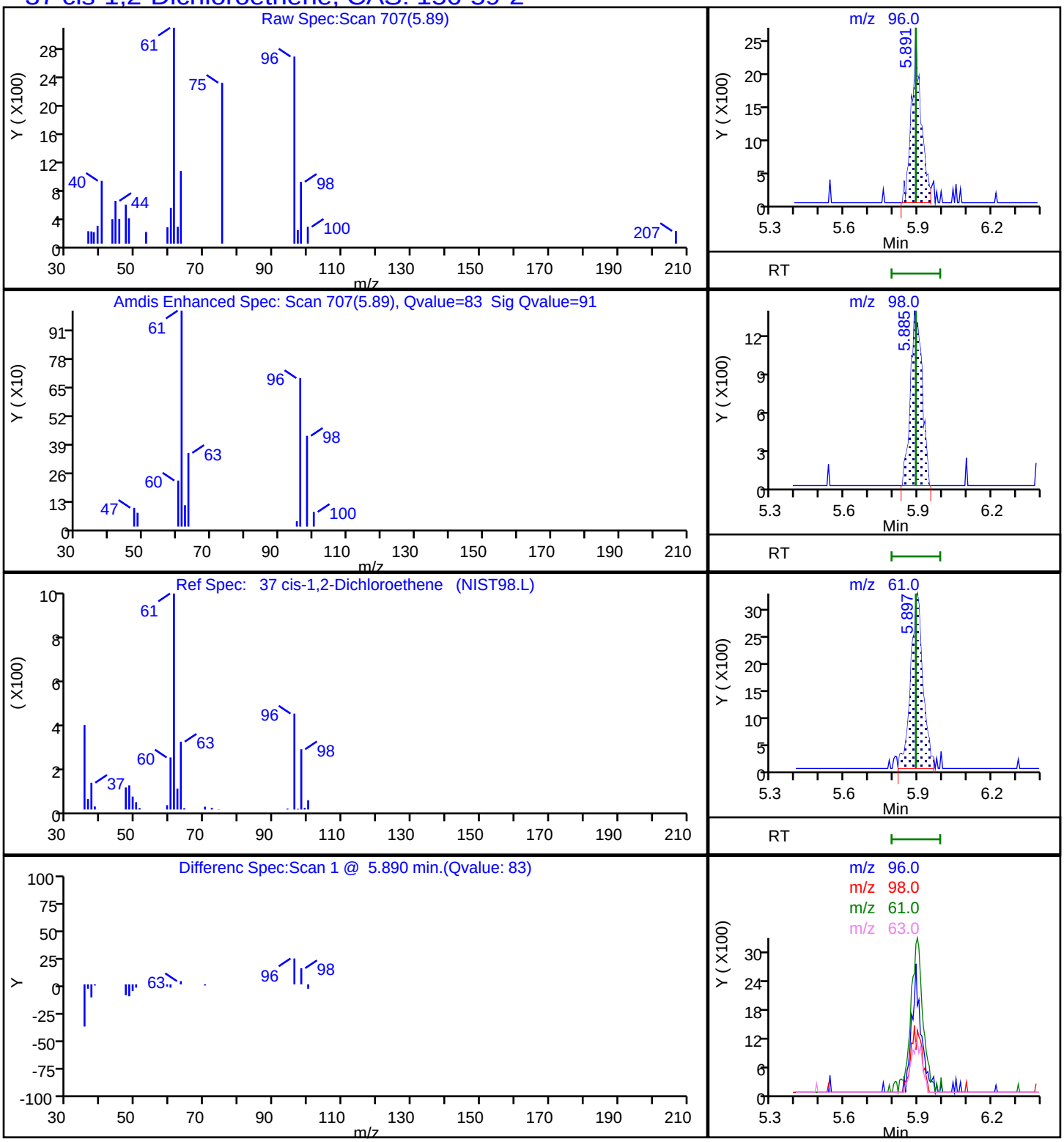
3 Chloromethane, CAS: 74-87-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X31.D				
Injection Date:	06-Jul-2021 21:00:30	Instrument ID:	10193		
Lims ID:	410-45147-A-10	Lab Sample ID:	410-45147-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	31	Worklist Smp#:	29
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-28-0/1-0 Lab Sample ID: 410-45147-11

Matrix: Water Lab File ID: HL07X30.D

Analysis Method: 8260D Date Collected: 06/24/2021 12:45

Sample wt/vol: 25(mL) Date Analyzed: 07/07/2021 18:53

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145644 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND		5.0	0.60
591-78-6	2-Hexanone	ND		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70
67-64-1	Acetone	1.7	J	5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	0.093	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.073	J	0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	0.096	J	0.50	0.060
108-88-3	Toluene	0.11	J	0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	ND		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-28-0/1-0 Lab Sample ID: 410-45147-11

Matrix: Water Lab File ID: HL07X30.D

Analysis Method: 8260D Date Collected: 06/24/2021 12:45

Sample wt/vol: 25(mL) Date Analyzed: 07/07/2021 18:53

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145644 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
2037-26-5	Toluene-d8 (Surr)	93		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X30.D
Lims ID: 410-45147-A-11
Client ID: HD-COD-SW-28-0/1-0
Sample Type: Client
Inject. Date: 07-Jul-2021 18:53:30 ALS Bottle#: 30 Worklist Smp#: 31
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033672-031
Operator ID: SRK36897 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2021 20:09:05 Calib Date: 30-Jun-2021 20:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1619

First Level Reviewer: beckerk Date: 07-Jul-2021 20:08:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
6 Chloromethane	50		2.190				ND	7
7 Vinyl chloride	62		2.312				ND	
9 Bromomethane	94		2.635				ND	
10 Chloroethane	64		2.727				ND	
18 1,1-Dichloroethene	96		3.593				ND	
19 Acetone	43	3.629	3.617	0.012	92	14320	1.71	M
24 Carbon disulfide	76		3.916				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.293	4.245	0.048	91	114126	50.0	
29 Methylene Chloride	84		4.257				ND	
32 Methyl tert-butyl ether	73		4.672				ND	
33 trans-1,2-Dichloroethene	96		4.684				ND	
35 1,1-Dichloroethane	63		5.336				ND	
41 2-Butanone (MEK)	43	6.153	6.123	0.030	97	8130	0.5800	M
42 cis-1,2-Dichloroethene	96	6.165	6.171	-0.006	41	4164	0.0731	M
48 Chlorobromomethane	128		6.507				ND	
50 Chloroform	83	6.647	6.653	-0.006	91	8305	0.0933	
$ 51 Dibromofluoromethane (Surr)	113	6.872	6.866	0.006	94	455490	10.4	
52 1,1,1-Trichloroethane	97		6.885				ND	
56 Carbon tetrachloride	117		7.098				ND	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.336	7.324	0.012	46	91141	10.3	
59 Benzene	78		7.360				ND	7
60 1,2-Dichloroethane	62	7.433	7.433	0.000	1	1629	0.0308	
* 65 Fluorobenzene (IS)	96	7.768	7.769	-0.001	99	1805865	10.0	
67 Trichloroethene	95	8.250	8.250	0.000	92	3052	0.0548	
70 1,2-Dichloropropane	63		8.579				ND	
75 Dichlorobromomethane	83		8.927				ND	
80 cis-1,3-Dichloropropene	75		9.469				ND	
81 4-Methyl-2-pentanone (MIBK)	43		9.640				ND	7
$ 82 Toluene-d8 (Surr)	98	9.780	9.780	0.000	93	1859378	9.33	
83 Toluene	92	9.859	9.854	0.005	99	17180	0.1130	
85 trans-1,3-Dichloropropene	75		10.110				ND	
87 1,1,2-Trichloroethane	97		10.311				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	10.402	10.402	0.000	94	6310	0.0957	
91 2-Hexanone	43		10.524				ND	7
93 Chlorodibromomethane	129		10.689				ND	
94 Ethylene Dibromide	107		10.805				ND	
* 97 Chlorobenzene-d5 (IS)	117	11.231	11.231	0.000	85	1483333	10.0	
S 95 Xylenes, Total	106				0		0.1377	
98 Chlorobenzene	112		11.262				ND	7
99 1,1,1,2-Tetrachloroethane	131		11.341				ND	
100 Ethylbenzene	91		11.347				ND	7
101 m-Xylene & p-Xylene	106	11.463	11.457	0.006	98	10558	0.0962	
102 o-Xylene	106	11.792	11.786	0.006	95	4506	0.0415	
103 Styrene	104		11.804				ND	7
104 Bromoform	173		11.963				ND	
$ 108 4-Bromofluorobenzene (Surr)	95	12.231	12.231	0.000	91	711016	9.78	
109 1,1,2,2-Tetrachloroethane	83		12.329				ND	
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	94	813887	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00001 Amount Added: 5.00 Units: uL Run Reagent

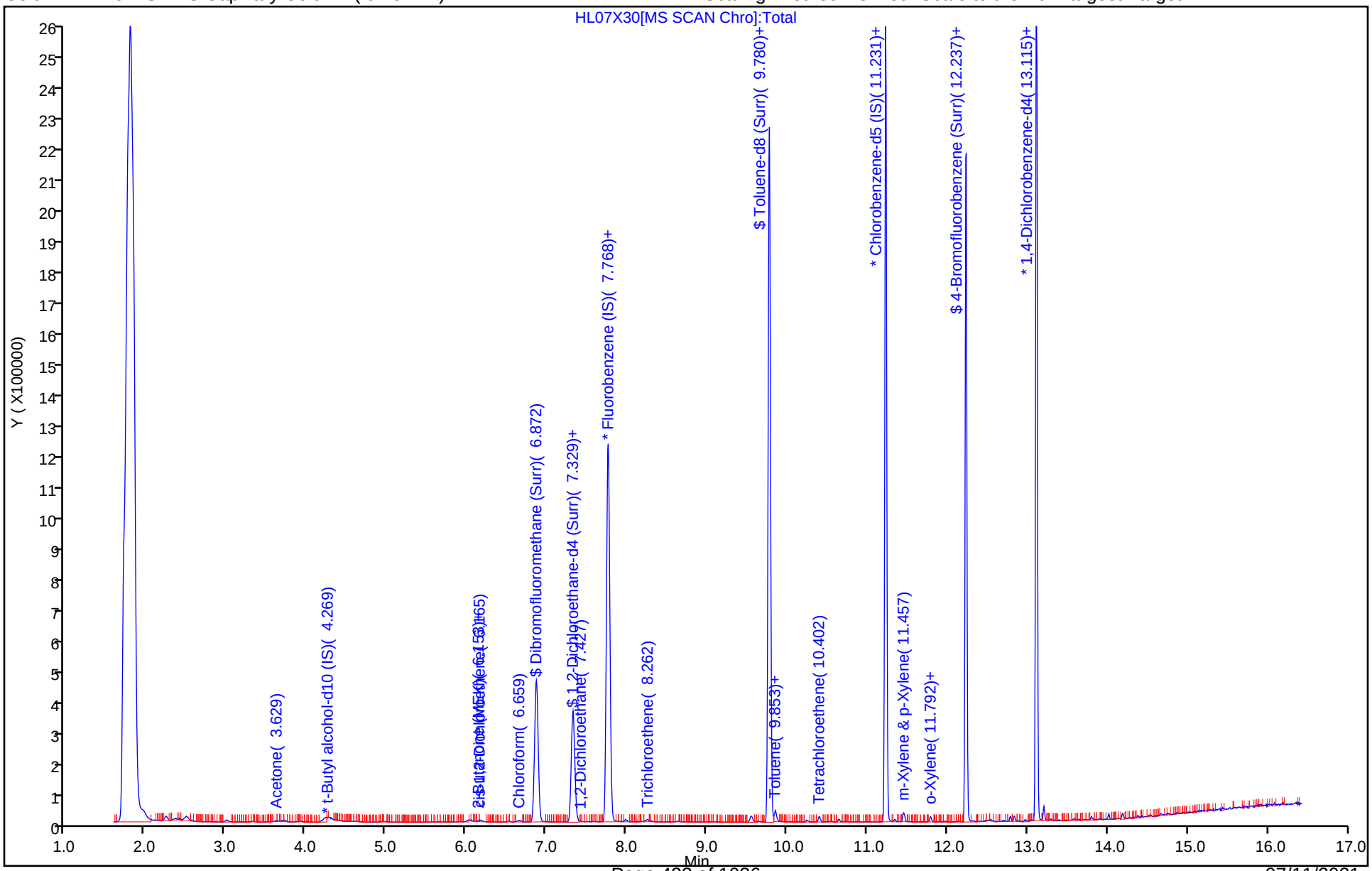
Report Date: 07-Jul-2021 20:10:22 Chrom Revision: 2.3 07-Jul-2021 12:11:26

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X30.D

Injection Date:	07-Jul-2021 18:53:30	Instrument ID:	19094	Operator ID:	SRK36897
Lims ID:	410-45147-A-11	Lab Sample ID:	410-45147-11	Worklist Smp#:	31
Client ID:	HD-COD-SW-28-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X30.D				
Lims ID:	410-45147-A-11				
Client ID:	HD-COD-SW-28-0/1-0				
Sample Type:	Client				
Inject. Date:	07-Jul-2021 18:53:30	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0033672-031				
Operator ID:	SRK36897	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Jul-2021 20:09:05	Calib Date:	30-Jun-2021 20:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1619				

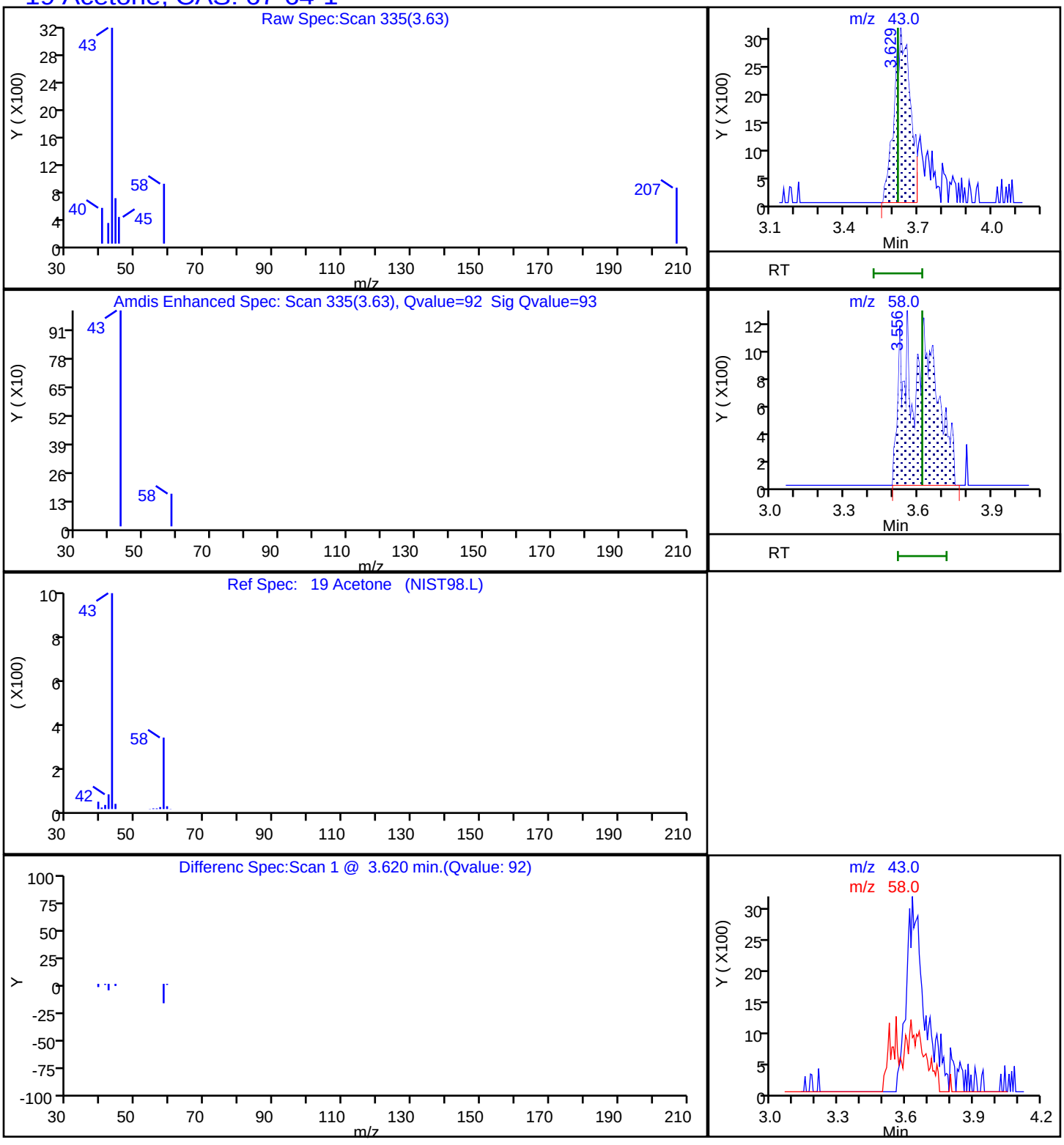
First Level Reviewer: beckerk Date: 07-Jul-2021 20:08:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 51 Dibromofluoromethane (Surr)	10.0	10.4	104.25
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.31
$ 82 Toluene-d8 (Surr)	10.0	9.33	93.29
$ 108 4-Bromofluorobenzene (Surr)	10.0	9.78	97.75

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X30.D				
Injection Date:	07-Jul-2021 18:53:30	Instrument ID:	19094		
Lims ID:	410-45147-A-11	Lab Sample ID:	410-45147-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

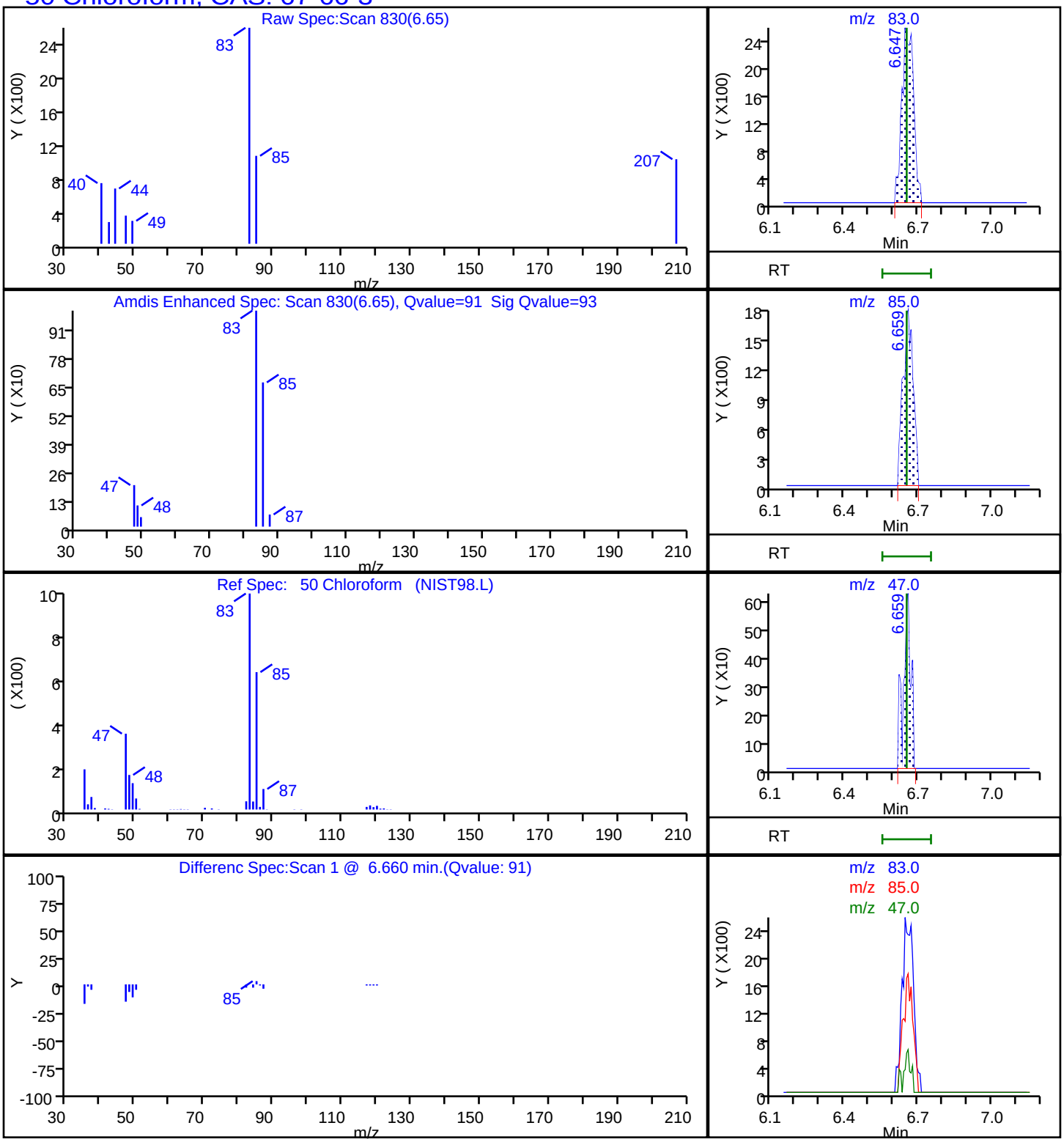
19 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X30.D				
Injection Date:	07-Jul-2021 18:53:30	Instrument ID:	19094		
Lims ID:	410-45147-A-11	Lab Sample ID:	410-45147-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

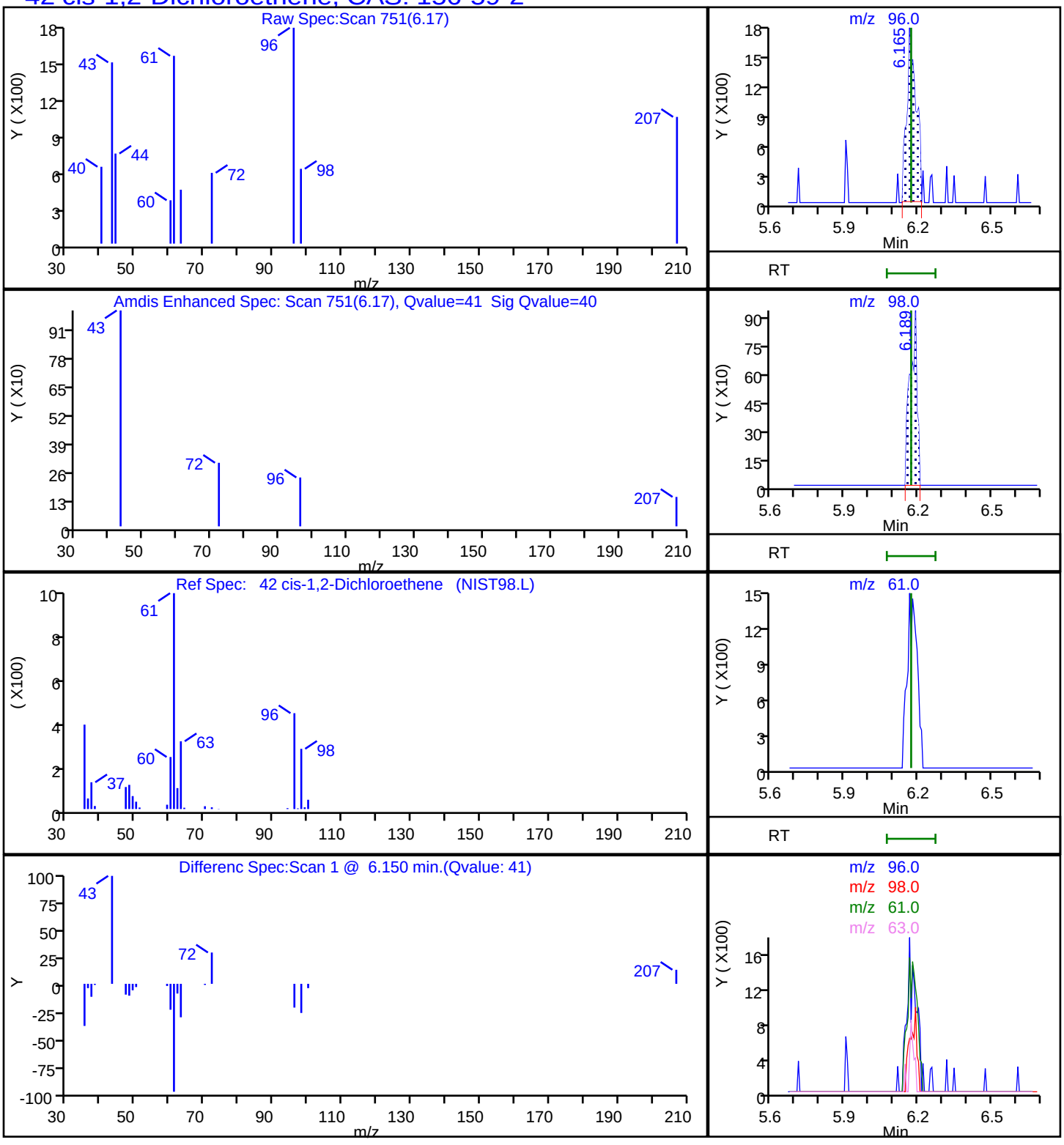
50 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X30.D				
Injection Date:	07-Jul-2021 18:53:30	Instrument ID:	19094		
Lims ID:	410-45147-A-11	Lab Sample ID:	410-45147-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

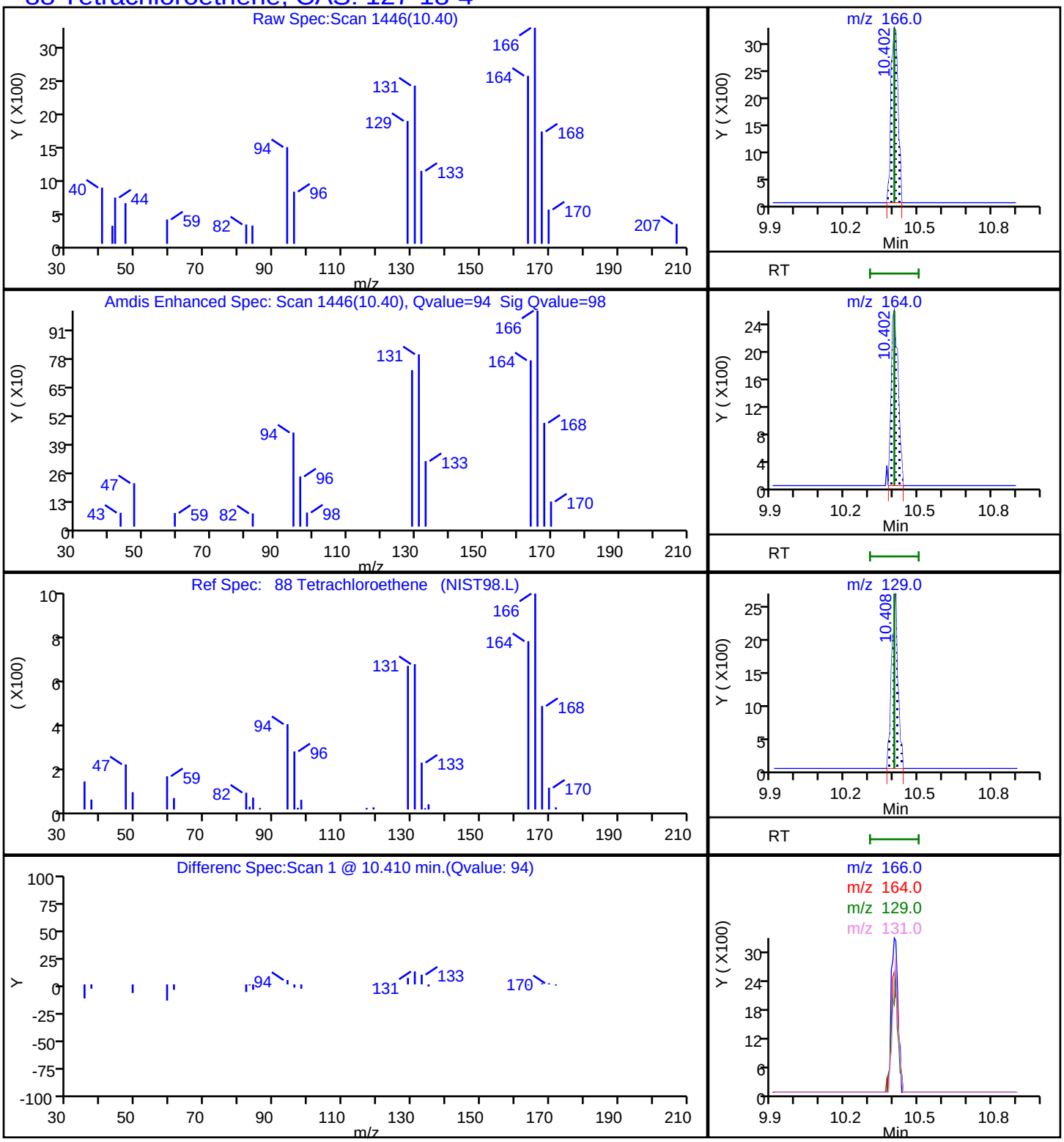
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X30.D				
Injection Date:	07-Jul-2021 18:53:30	Instrument ID:	19094		
Lims ID:	410-45147-A-11	Lab Sample ID:	410-45147-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

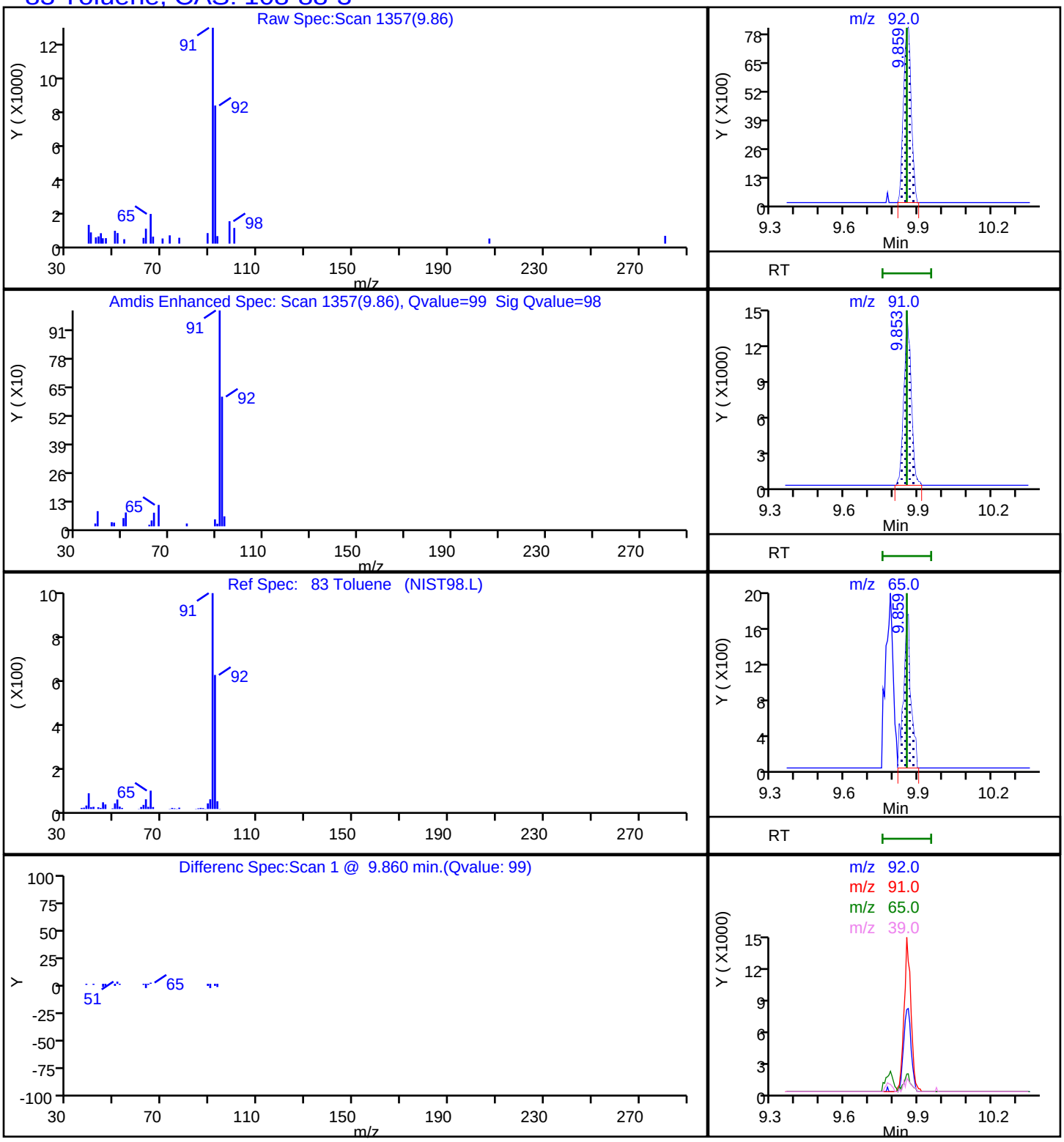
88 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X30.D				
Injection Date:	07-Jul-2021 18:53:30	Instrument ID:	19094		
Lims ID:	410-45147-A-11	Lab Sample ID:	410-45147-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

83 Toluene, CAS: 108-88-3



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

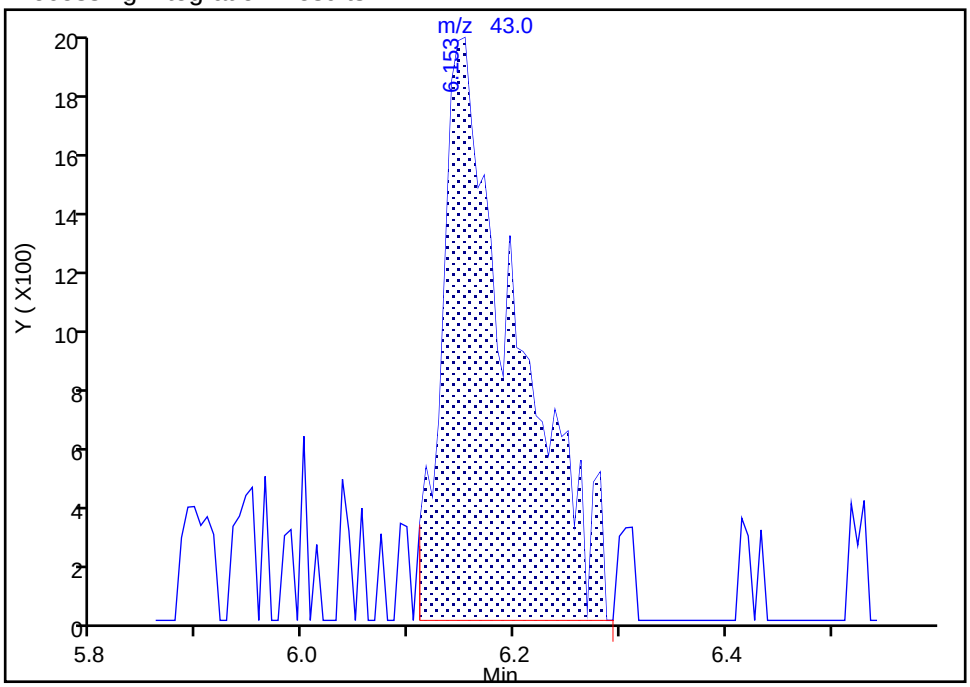
Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X30.D				
Injection Date:	07-Jul-2021 18:53:30	Instrument ID:	19094		
Lims ID:	410-45147-A-11	Lab Sample ID:	410-45147-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

41 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

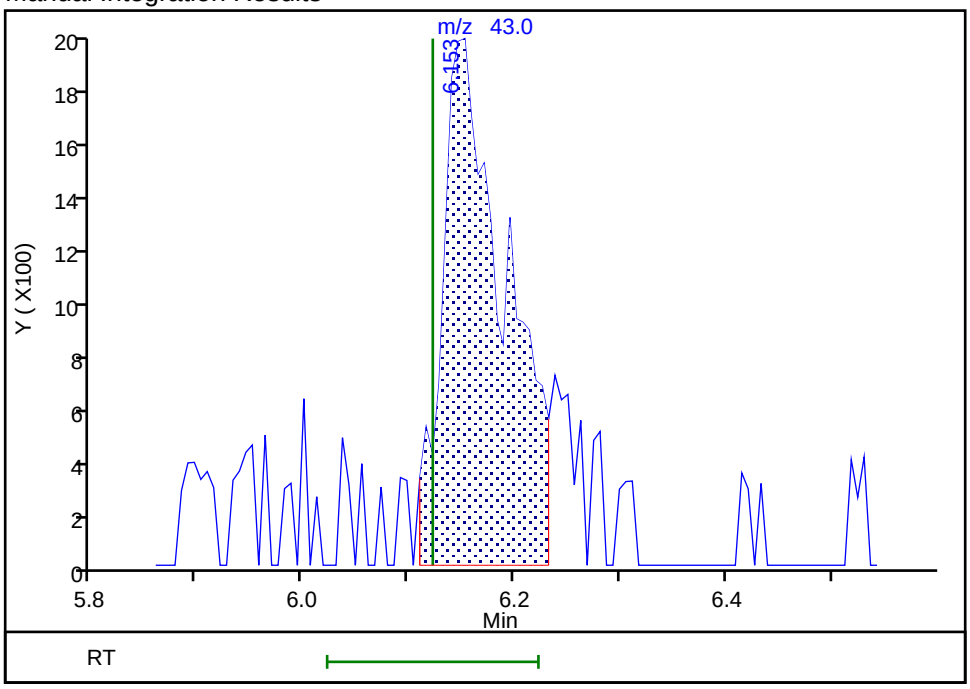
Processing Integration Results

RT: 6.15
Area: 9495
Amount: 0.677370
Amount Units: ug/l



Manual Integration Results

RT: 6.15
Area: 8130
Amount: 0.579992
Amount Units: ug/l



Reviewer: beckerk, 07-Jul-2021 20:08:14
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

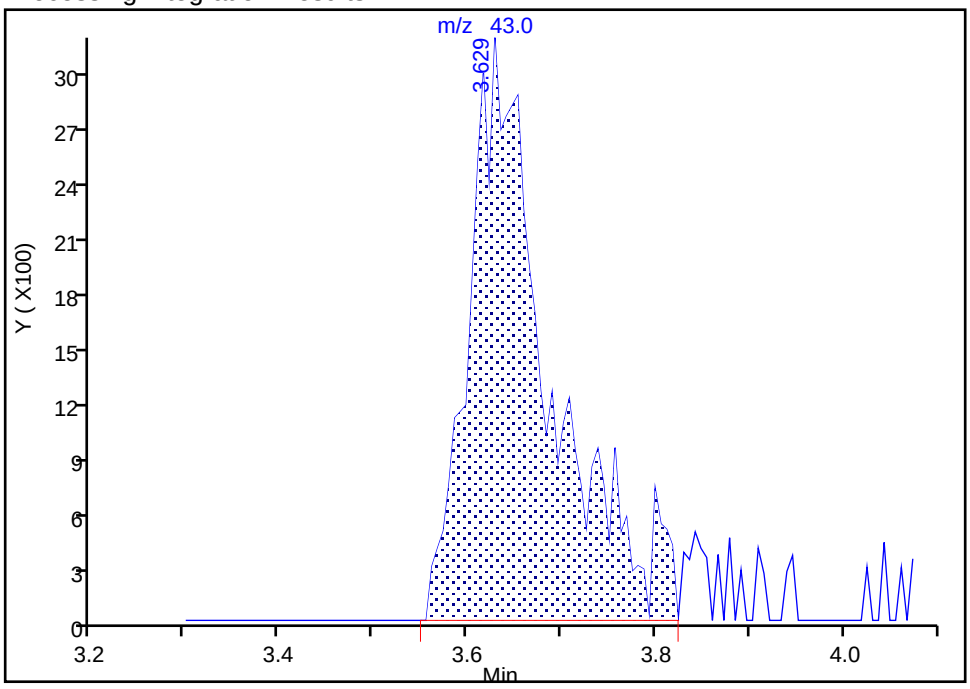
Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X30.D				
Injection Date:	07-Jul-2021 18:53:30	Instrument ID:	19094		
Lims ID:	410-45147-A-11	Lab Sample ID:	410-45147-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

19 Acetone, CAS: 67-64-1

Signal: 1

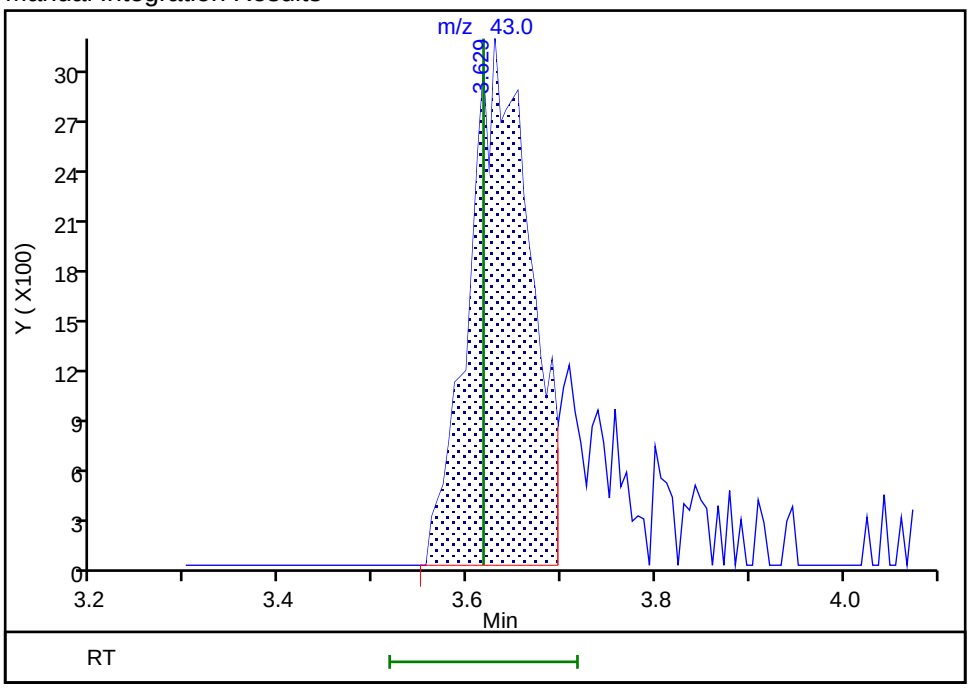
Processing Integration Results

RT: 3.63
Area: 18799
Amount: 2.243493
Amount Units: ug/l



Manual Integration Results

RT: 3.63
Area: 14320
Amount: 1.708965
Amount Units: ug/l



Reviewer: beckerk, 07-Jul-2021 20:08:07
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

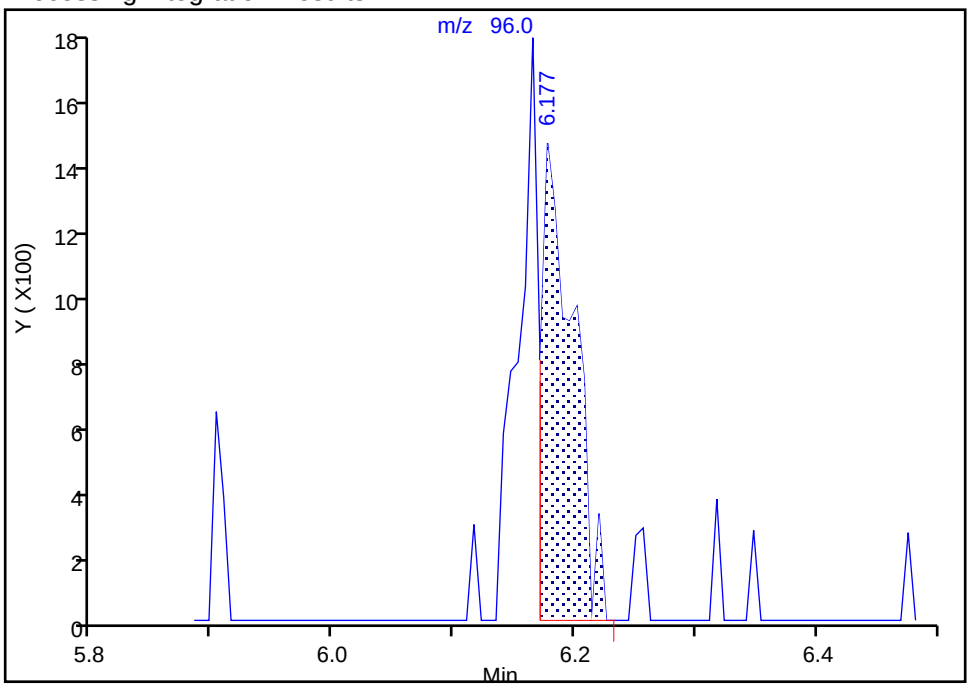
Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X30.D				
Injection Date:	07-Jul-2021 18:53:30	Instrument ID:	19094		
Lims ID:	410-45147-A-11	Lab Sample ID:	410-45147-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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

Signal: 1

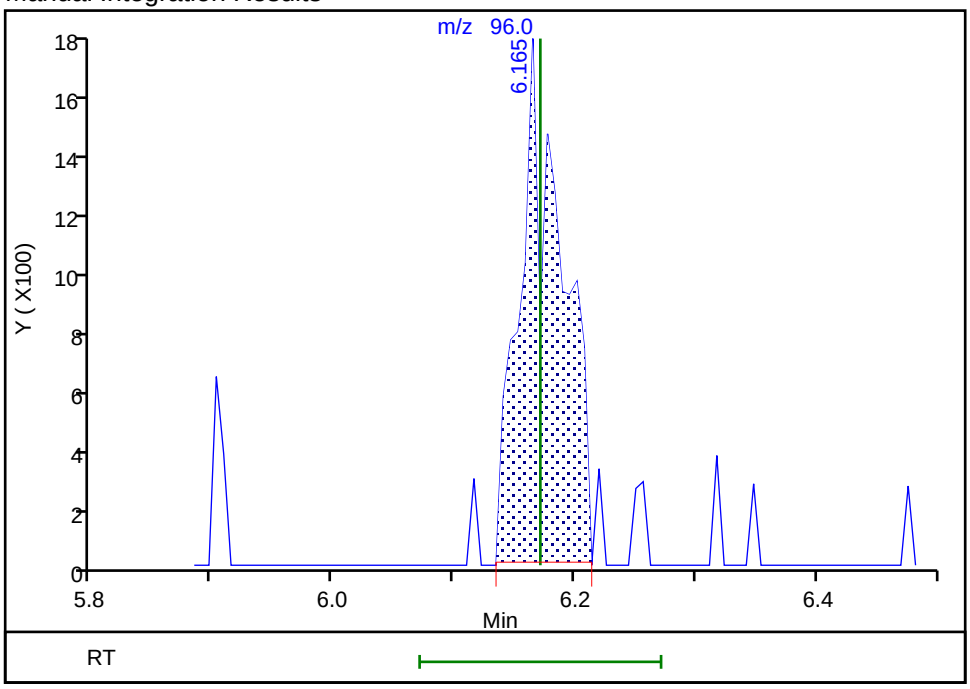
Processing Integration Results

RT: 6.18
Area: 2597
Amount: 0.045616
Amount Units: ug/l



Manual Integration Results

RT: 6.17
Area: 4164
Amount: 0.073141
Amount Units: ug/l



Reviewer: beckerk, 07-Jul-2021 20:08:25

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-29-0/1-0 Lab Sample ID: 410-45147-12

Matrix: Water Lab File ID: HL07X31.D

Analysis Method: 8260D Date Collected: 06/24/2021 09:10

Sample wt/vol: 25(mL) Date Analyzed: 07/07/2021 19:13

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145644 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND		5.0	0.60
591-78-6	2-Hexanone	ND		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70
67-64-1	Acetone	1.4	J	5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.13	J	0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	ND		0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	0.11	J	0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-29-0/1-0 Lab Sample ID: 410-45147-12

Matrix: Water Lab File ID: HL07X31.D

Analysis Method: 8260D Date Collected: 06/24/2021 09:10

Sample wt/vol: 25(mL) Date Analyzed: 07/07/2021 19:13

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145644 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		80-120
2037-26-5	Toluene-d8 (Surr)	94		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X31.D
Lims ID: 410-45147-A-12
Client ID: HD-COD-SW-29-0/1-0
Sample Type: Client
Inject. Date: 07-Jul-2021 19:13:30 ALS Bottle#: 31 Worklist Smp#: 32
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033672-032
Operator ID: SRK36897 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2021 20:09:05 Calib Date: 30-Jun-2021 20:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1619

First Level Reviewer: beckerk Date: 07-Jul-2021 20:09:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
6 Chloromethane	50	2.191	2.190	0.001	8	2334	0.0402	
7 Vinyl chloride	62		2.312				ND	
9 Bromomethane	94		2.635				ND	
10 Chloroethane	64		2.727				ND	
18 1,1-Dichloroethene	96		3.593				ND	
19 Acetone	43	3.623	3.617	0.006	67	10517	1.39	M
24 Carbon disulfide	76		3.916				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.251	4.245	0.006	89	102957	50.0	
29 Methylene Chloride	84		4.257				ND	
32 Methyl tert-butyl ether	73		4.672				ND	
33 trans-1,2-Dichloroethene	96		4.684				ND	
35 1,1-Dichloroethane	63		5.336				ND	
41 2-Butanone (MEK)	43		6.123				ND	7
42 cis-1,2-Dichloroethene	96	6.171	6.171	0.000	74	6863	0.1288	
48 Chlorobromomethane	128		6.507				ND	
50 Chloroform	83	6.653	6.653	0.000	18	4585	0.0550	
$ 51 Dibromofluoromethane (Surr)	113	6.873	6.866	0.007	94	427276	10.5	
52 1,1,1-Trichloroethane	97		6.885				ND	
56 Carbon tetrachloride	117		7.098				ND	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.324	7.324	0.000	47	84955	10.3	
59 Benzene	78		7.360				ND	7
60 1,2-Dichloroethane	62		7.433				ND	7
* 65 Fluorobenzene (IS)	96	7.763	7.769	-0.006	99	1689620	10.0	
67 Trichloroethene	95	8.250	8.250	0.000	95	5630	0.1081	
70 1,2-Dichloropropane	63		8.579				ND	
75 Dichlorobromomethane	83		8.927				ND	
80 cis-1,3-Dichloropropene	75		9.469				ND	
81 4-Methyl-2-pentanone (MIBK)	43		9.640				ND	7
$ 82 Toluene-d8 (Surr)	98	9.781	9.780	0.001	93	1760780	9.42	
83 Toluene	92	9.854	9.854	0.000	94	5812	0.0408	
85 trans-1,3-Dichloropropene	75		10.110				ND	
87 1,1,2-Trichloroethane	97		10.311				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	10.402	10.402	0.000	89	3054	0.0494	
91 2-Hexanone	43		10.524				ND	7
93 Chlorodibromomethane	129		10.689				ND	
94 Ethylene Dibromide	107		10.805				ND	
* 97 Chlorobenzene-d5 (IS)	117	11.231	11.231	0.000	85	1390777	10.0	
S 95 Xylenes, Total	106		11.245				ND	7
98 Chlorobenzene	112		11.262				ND	7
99 1,1,1,2-Tetrachloroethane	131		11.341				ND	
100 Ethylbenzene	91		11.347				ND	7
101 m-Xylene & p-Xylene	106		11.457				ND	7
102 o-Xylene	106		11.786				ND	7
103 Styrene	104		11.804				ND	
104 Bromoform	173		11.963				ND	
$ 108 4-Bromofluorobenzene (Surr)	95	12.231	12.231	0.000	96	664045	9.74	
109 1,1,2,2-Tetrachloroethane	83		12.329				ND	
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	94	768670	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00001 Amount Added: 5.00 Units: uL Run Reagent

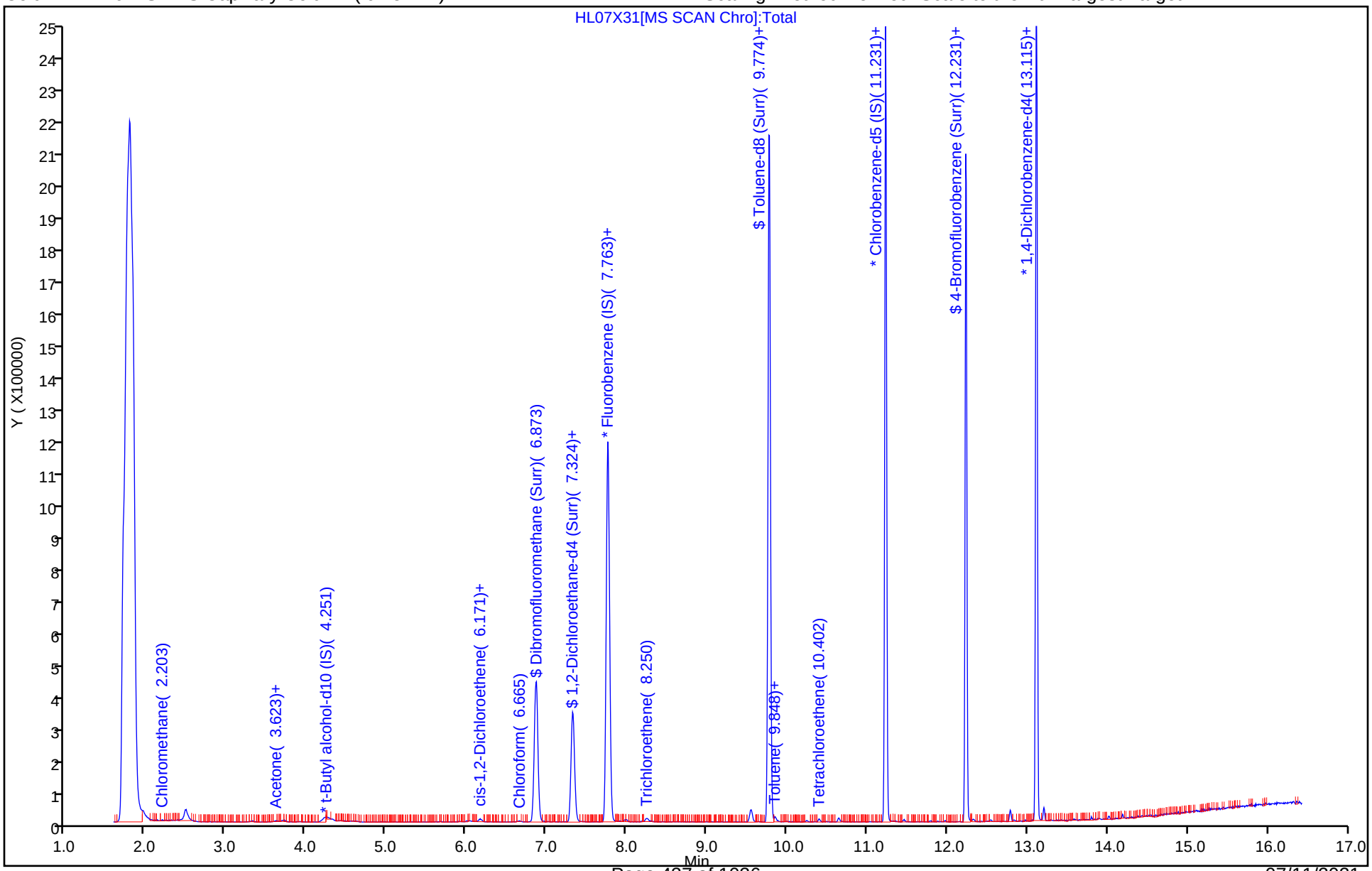
Report Date: 07-Jul-2021 20:10:24 Chrom Revision: 2.3 07-Jul-2021 12:11:26

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X31.D

Injection Date:	07-Jul-2021 19:13:30	Instrument ID:	19094	Operator ID:	SRK36897
Lims ID:	410-45147-A-12	Lab Sample ID:	410-45147-12	Worklist Smp#:	32
Client ID:	HD-COD-SW-29-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X31.D				
Lims ID:	410-45147-A-12				
Client ID:	HD-COD-SW-29-0/1-0				
Sample Type:	Client				
Inject. Date:	07-Jul-2021 19:13:30	ALS Bottle#:	31	Worklist Smp#:	32
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0033672-032				
Operator ID:	SRK36897	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Jul-2021 20:09:05	Calib Date:	30-Jun-2021 20:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1619				

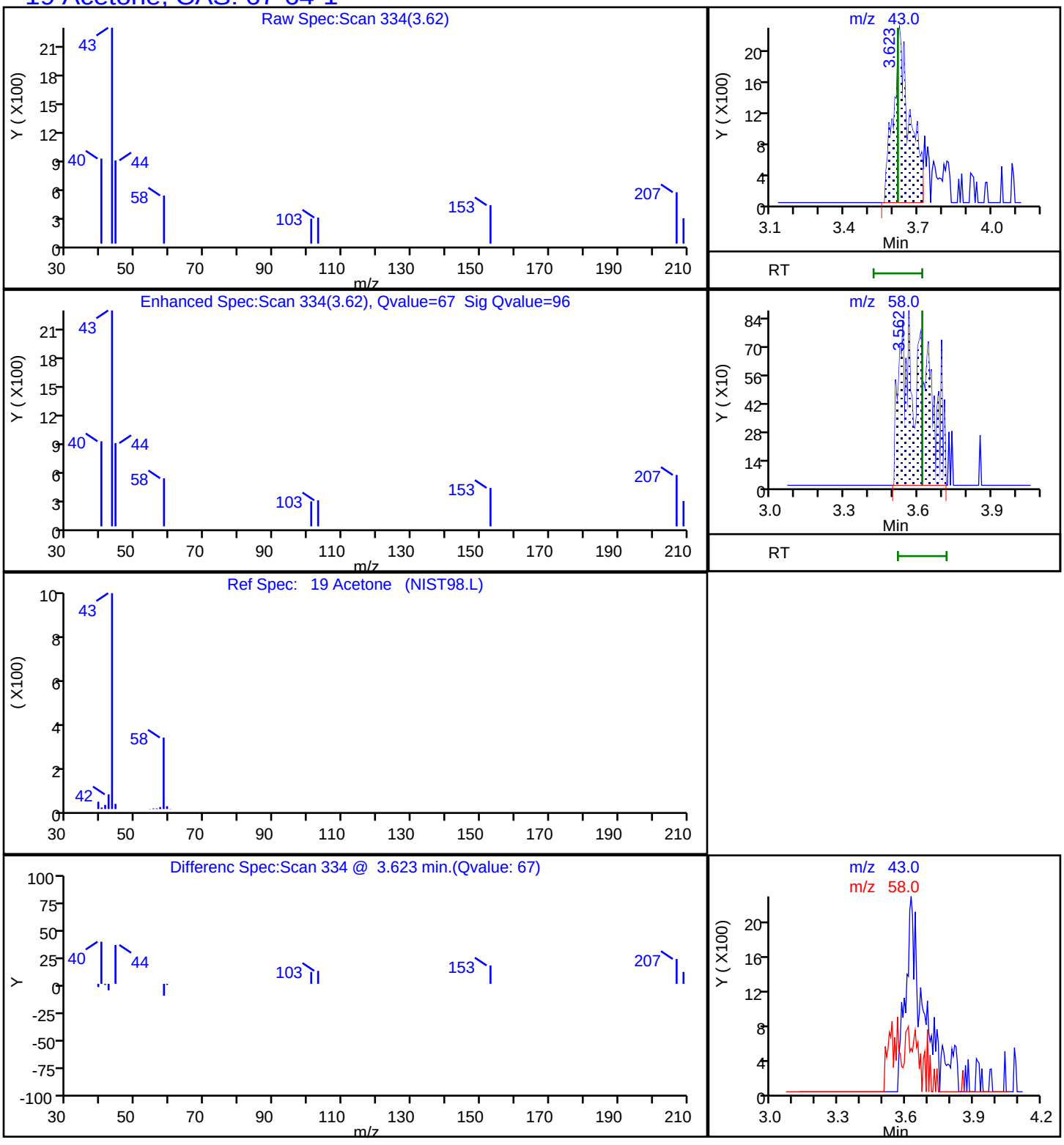
First Level Reviewer: beckerk Date: 07-Jul-2021 20:09:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 51 Dibromofluoromethane (Surr)	10.0	10.5	104.53
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	102.93
$ 82 Toluene-d8 (Surr)	10.0	9.42	94.22
$ 108 4-Bromofluorobenzene (Surr)	10.0	9.74	97.37

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X31.D				
Injection Date:	07-Jul-2021 19:13:30	Instrument ID:	19094		
Lims ID:	410-45147-A-12	Lab Sample ID:	410-45147-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	31	Worklist Smp#:	32
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

19 Acetone, CAS: 67-64-1

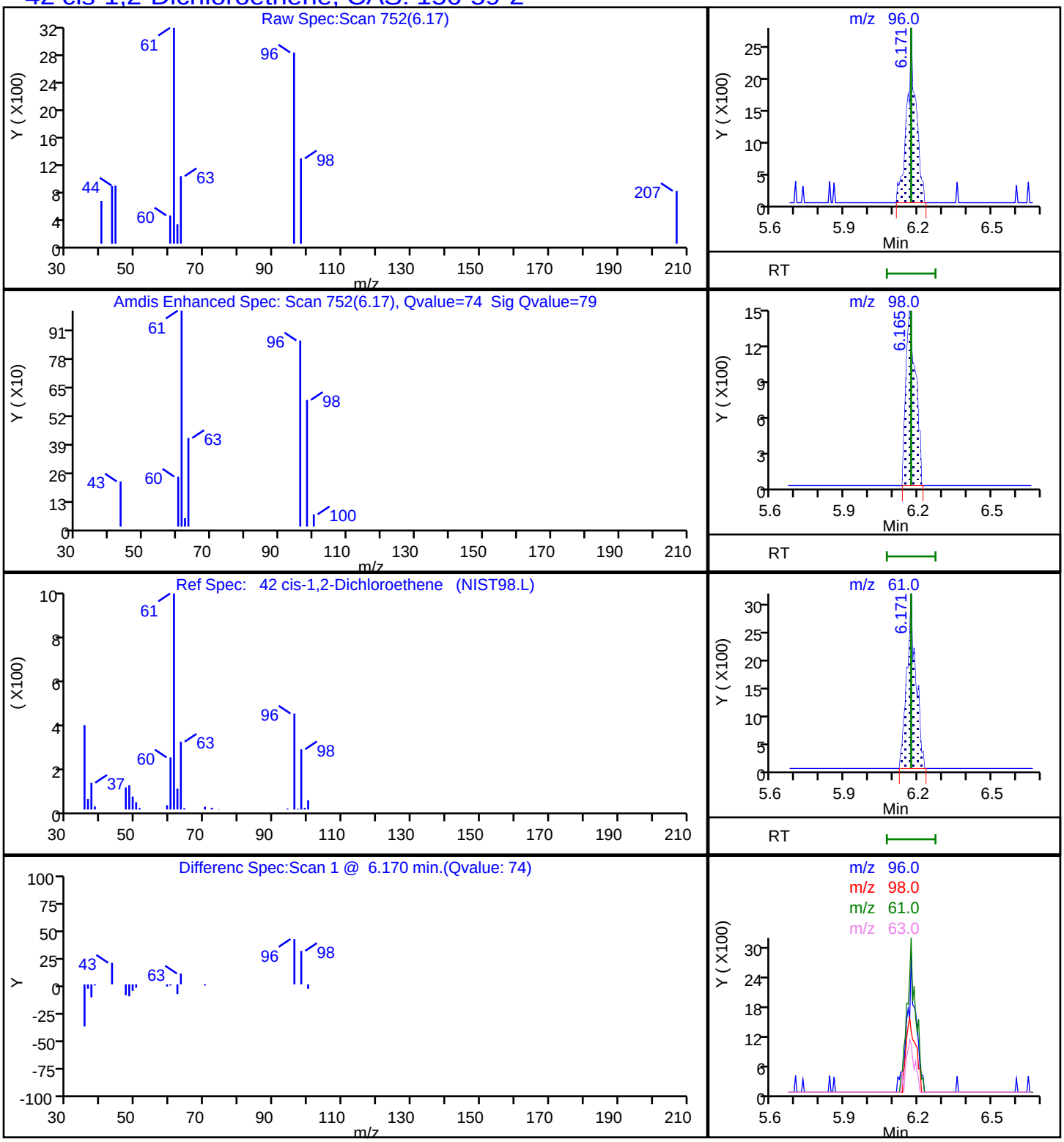


Report Date: 07-Jul-2021 20:10:24 Chrom Revision: 2.3 07-Jul-2021 12:11:26

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X31.D				
Injection Date:	07-Jul-2021 19:13:30	Instrument ID:	19094		
Lims ID:	410-45147-A-12	Lab Sample ID:	410-45147-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	31	Worklist Smp#:	32
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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

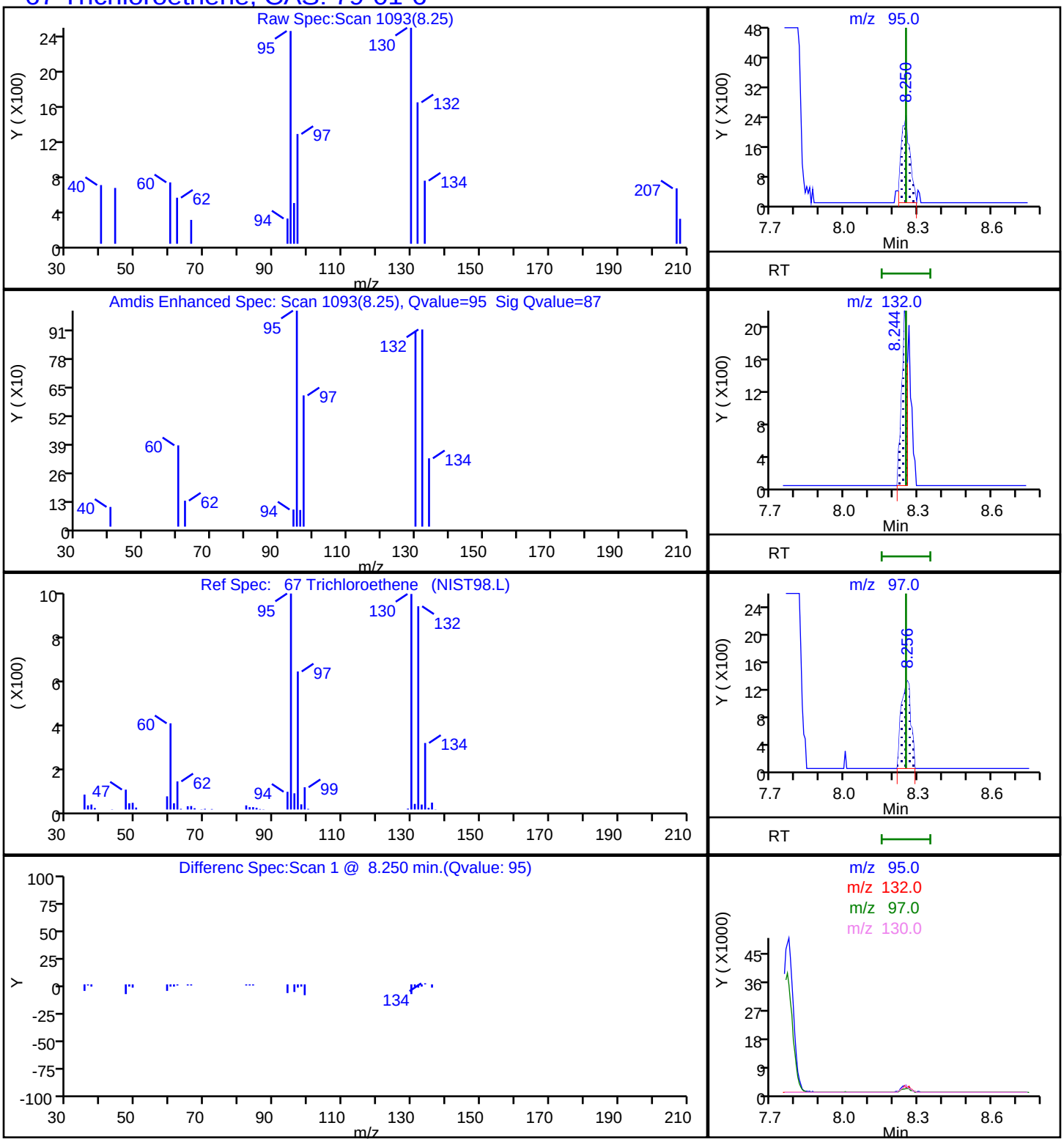


Report Date: 07-Jul-2021 20:10:24 Chrom Revision: 2.3 07-Jul-2021 12:11:26

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X31.D				
Injection Date:	07-Jul-2021 19:13:30	Instrument ID:	19094		
Lims ID:	410-45147-A-12	Lab Sample ID:	410-45147-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	31	Worklist Smp#:	32
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

67 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

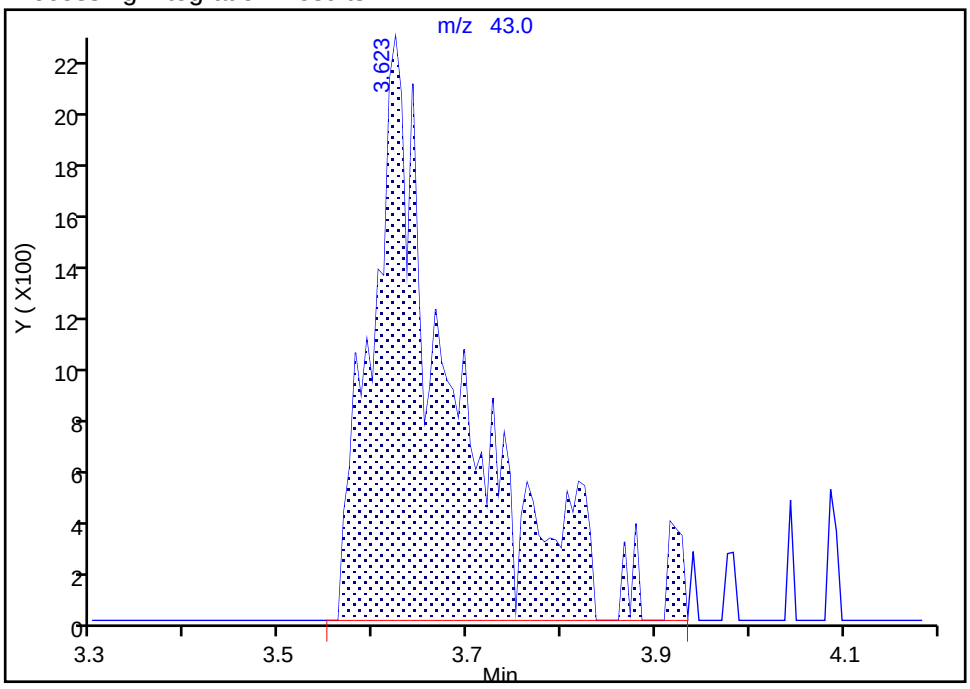
Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X31.D				
Injection Date:	07-Jul-2021 19:13:30	Instrument ID:	19094		
Lims ID:	410-45147-A-12	Lab Sample ID:	410-45147-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	31	Worklist Smp#:	32
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

19 Acetone, CAS: 67-64-1

Signal: 1

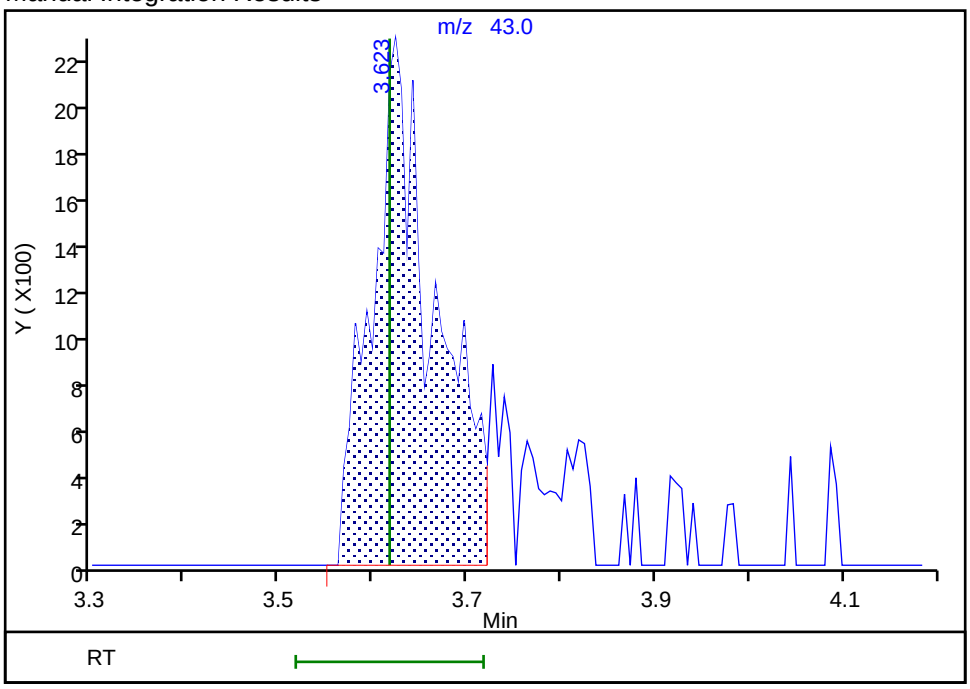
Processing Integration Results

RT: 3.62
Area: 14059
Amount: 1.859830
Amount Units: ug/l



Manual Integration Results

RT: 3.62
Area: 10517
Amount: 1.391267
Amount Units: ug/l



Reviewer: beckerk, 07-Jul-2021 20:08:55

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1 Lab Sample ID: 410-45147-13

Matrix: Water Lab File ID: HL07X32.D

Analysis Method: 8260D Date Collected: 06/24/2021 12:00

Sample wt/vol: 25(mL) Date Analyzed: 07/07/2021 19:34

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145644 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	0.10	J	0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND		5.0	0.60
591-78-6	2-Hexanone	ND		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70
67-64-1	Acetone	ND		5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	0.29	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.83		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	3.5		0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	1.3		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1 Lab Sample ID: 410-45147-13

Matrix: Water Lab File ID: HL07X32.D

Analysis Method: 8260D Date Collected: 06/24/2021 12:00

Sample wt/vol: 25(mL) Date Analyzed: 07/07/2021 19:34

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145644 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		80-120
2037-26-5	Toluene-d8 (Surr)	94		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X32.D
Lims ID: 410-45147-A-13
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 07-Jul-2021 19:34:30 ALS Bottle#: 32 Worklist Smp#: 33
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033672-033
Operator ID: SRK36897 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2021 20:09:05 Calib Date: 30-Jun-2021 20:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1619

First Level Reviewer: beckerk Date: 07-Jul-2021 20:09:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
6 Chloromethane	50		2.190				ND	7
7 Vinyl chloride	62		2.312				ND	
9 Bromomethane	94		2.635				ND	
10 Chloroethane	64		2.727				ND	
18 1,1-Dichloroethene	96	3.593	3.593	0.000	35	4604	0.1045	
19 Acetone	43		3.617				ND	7
24 Carbon disulfide	76		3.916				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.251	4.245	0.006	89	117205	50.0	
29 Methylene Chloride	84		4.257				ND	
32 Methyl tert-butyl ether	73	4.666	4.672	-0.006	1	4640	0.0444	
33 trans-1,2-Dichloroethene	96		4.684				ND	
35 1,1-Dichloroethane	63	5.348	5.336	0.012	1	5966	0.0683	
41 2-Butanone (MEK)	43		6.123				ND	
42 cis-1,2-Dichloroethene	96	6.178	6.171	0.007	79	43715	0.8324	
48 Chlorobromomethane	128		6.507				ND	
50 Chloroform	83	6.647	6.653	-0.006	91	24116	0.2936	
$ 51 Dibromofluoromethane (Surr)	113	6.873	6.866	0.006	93	422355	10.5	
52 1,1,1-Trichloroethane	97	6.879	6.885	-0.006	36	9681	0.1283	
56 Carbon tetrachloride	117		7.098				ND	7
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.324	7.324	0.000	47	83336	10.2	
59 Benzene	78		7.360				ND	7
60 1,2-Dichloroethane	62		7.433				ND	7
* 65 Fluorobenzene (IS)	96	7.769	7.769	0.000	99	1665903	10.0	
67 Trichloroethene	95	8.250	8.250	0.000	97	64323	1.25	
70 1,2-Dichloropropane	63		8.579				ND	
75 Dichlorobromomethane	83		8.927				ND	
80 cis-1,3-Dichloropropene	75		9.469				ND	
81 4-Methyl-2-pentanone (MIBK)	43		9.640				ND	7
$ 82 Toluene-d8 (Surr)	98	9.780	9.780	0.000	93	1741566	9.39	
83 Toluene	92		9.854				ND	7
85 trans-1,3-Dichloropropene	75		10.110				ND	
87 1,1,2-Trichloroethane	97		10.311				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	10.402	10.402	0.000	97	211930	3.45	
91 2-Hexanone	43		10.524				ND	
93 Chlorodibromomethane	129		10.689				ND	
94 Ethylene Dibromide	107		10.805				ND	
* 97 Chlorobenzene-d5 (IS)	117	11.231	11.231	0.000	85	1380390	10.0	
S 95 Xylenes, Total	106		11.245				ND	7
98 Chlorobenzene	112		11.262				ND	7
99 1,1,1,2-Tetrachloroethane	131		11.341				ND	
100 Ethylbenzene	91		11.347				ND	7
101 m-Xylene & p-Xylene	106		11.457				ND	7
102 o-Xylene	106		11.786				ND	7
103 Styrene	104		11.804				ND	
104 Bromoform	173		11.963				ND	
$ 108 4-Bromofluorobenzene (Surr)	95	12.231	12.231	0.000	91	659164	9.74	
109 1,1,2,2-Tetrachloroethane	83		12.329				ND	
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	94	764662	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00001 Amount Added: 5.00 Units: uL Run Reagent

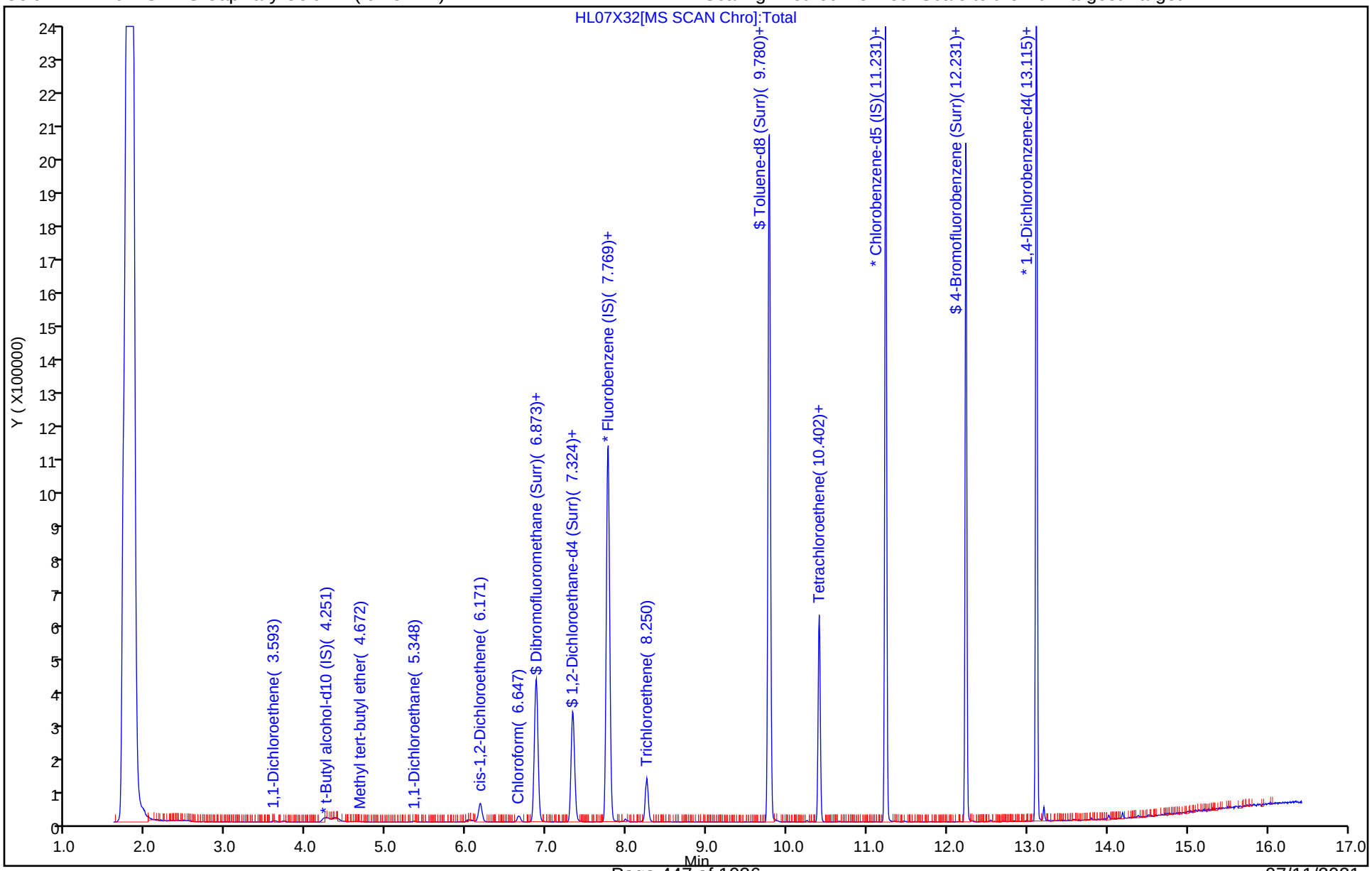
Report Date: 07-Jul-2021 20:10:26 Chrom Revision: 2.3 07-Jul-2021 12:11:26

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X32.D

Injection Date:	07-Jul-2021 19:34:30	Instrument ID:	19094	Operator ID:	SRK36897
Lims ID:	410-45147-A-13	Lab Sample ID:	410-45147-13	Worklist Smp#:	33
Client ID:	HD-QC1-0/1-1				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X32.D				
Lims ID:	410-45147-A-13				
Client ID:	HD-QC1-0/1-1				
Sample Type:	Client				
Inject. Date:	07-Jul-2021 19:34:30	ALS Bottle#:	32	Worklist Smp#:	33
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0033672-033				
Operator ID:	SRK36897	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Jul-2021 20:09:05	Calib Date:	30-Jun-2021 20:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1619				

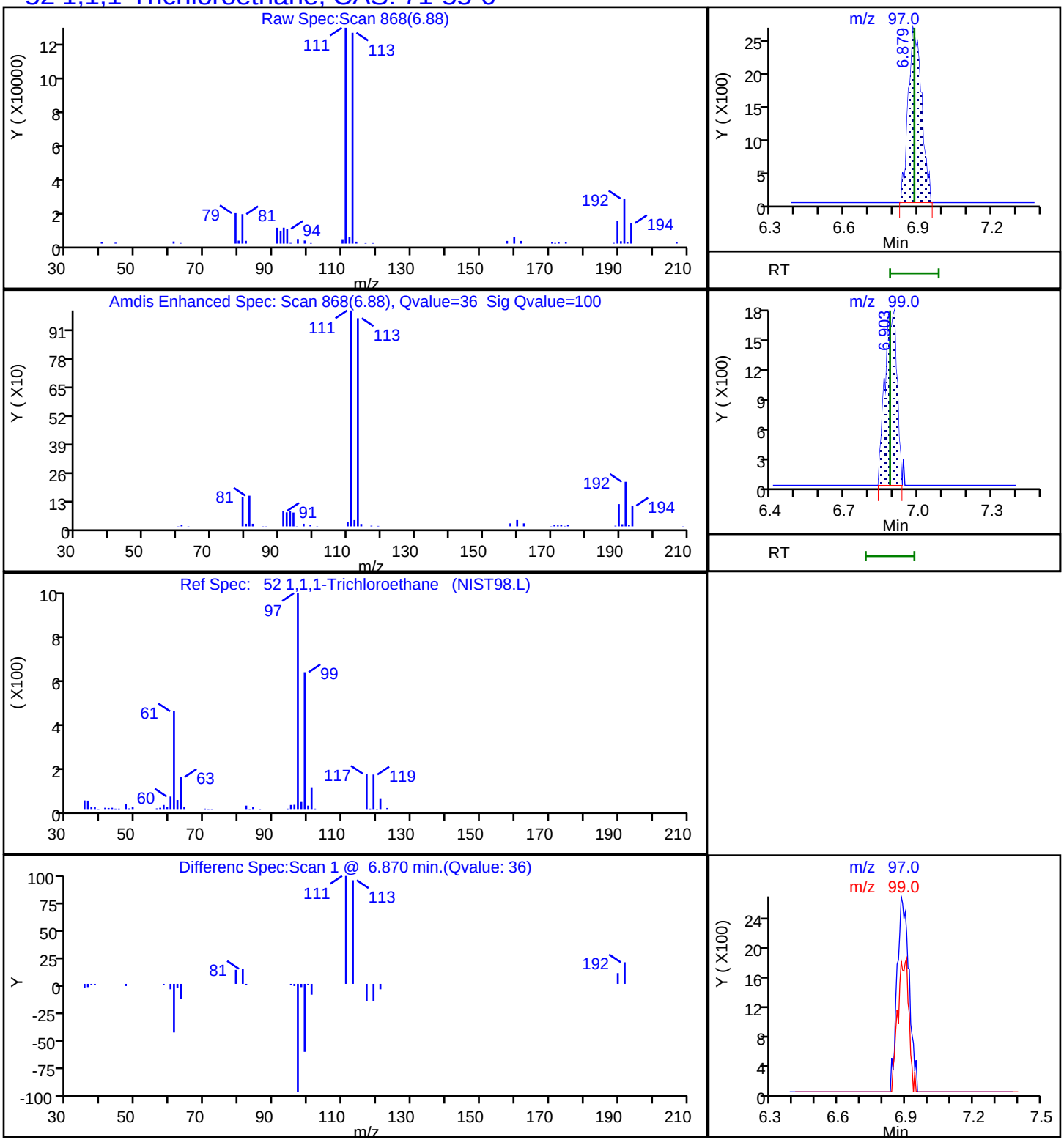
First Level Reviewer: beckerk Date: 07-Jul-2021 20:09:21

Compound	Amount Added	Amount Recovered	% Rec.
$ 51 Dibromofluoromethane (Surr)	10.0	10.5	104.79
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.40
$ 82 Toluene-d8 (Surr)	10.0	9.39	93.89
$ 108 4-Bromofluorobenzene (Surr)	10.0	9.74	97.38

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X32.D				
Injection Date:	07-Jul-2021 19:34:30	Instrument ID:	19094		
Lims ID:	410-45147-A-13	Lab Sample ID:	410-45147-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	SRK36897	ALS Bottle#:	32	Worklist Smp#:	33
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

52 1,1,1-Trichloroethane, CAS: 71-55-6

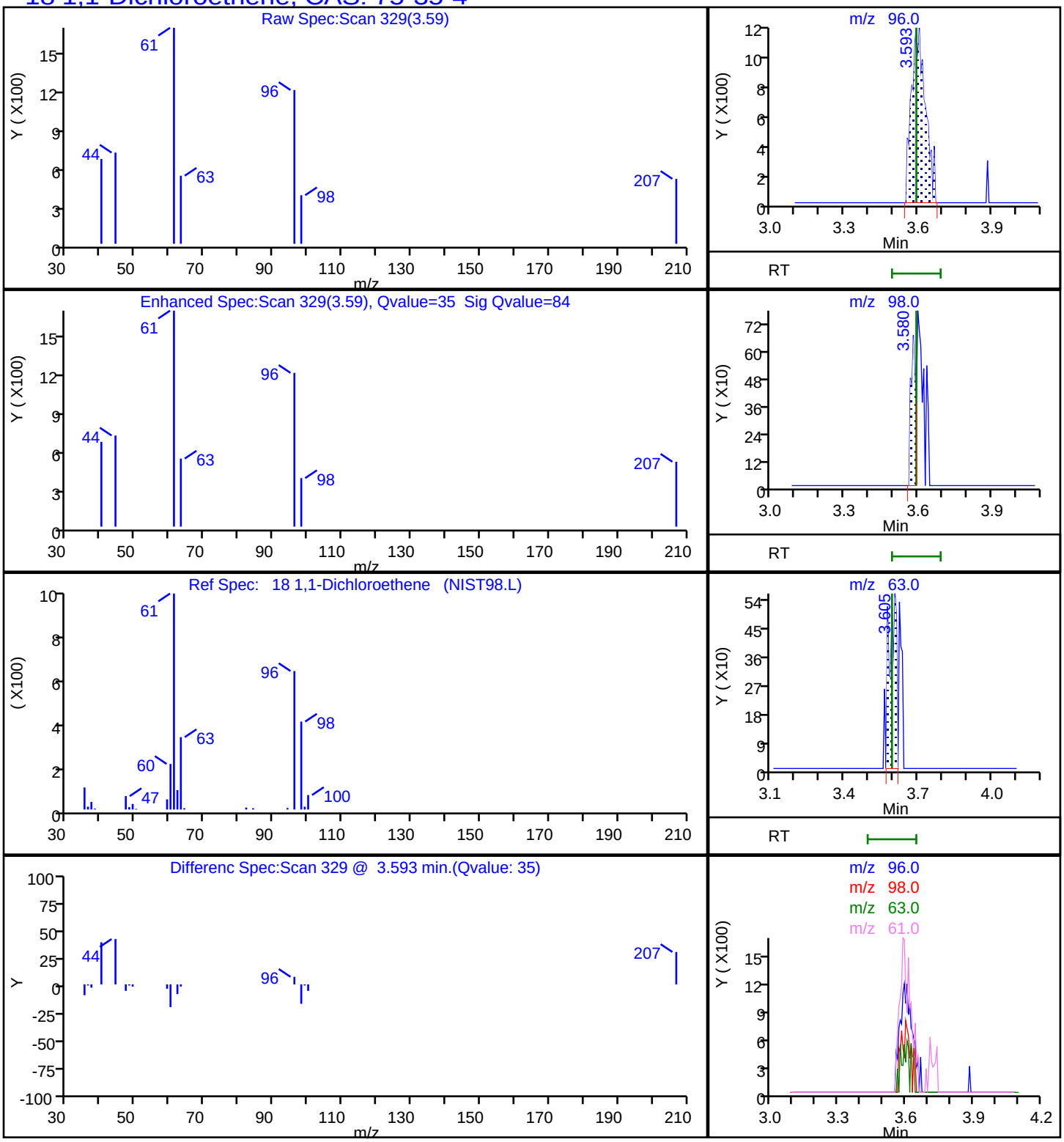


Report Date: 07-Jul-2021 20:10:26 Chrom Revision: 2.3 07-Jul-2021 12:11:26

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X32.D				
Injection Date:	07-Jul-2021 19:34:30	Instrument ID:	19094		
Lims ID:	410-45147-A-13	Lab Sample ID:	410-45147-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	SRK36897	ALS Bottle#:	32	Worklist Smp#:	33
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

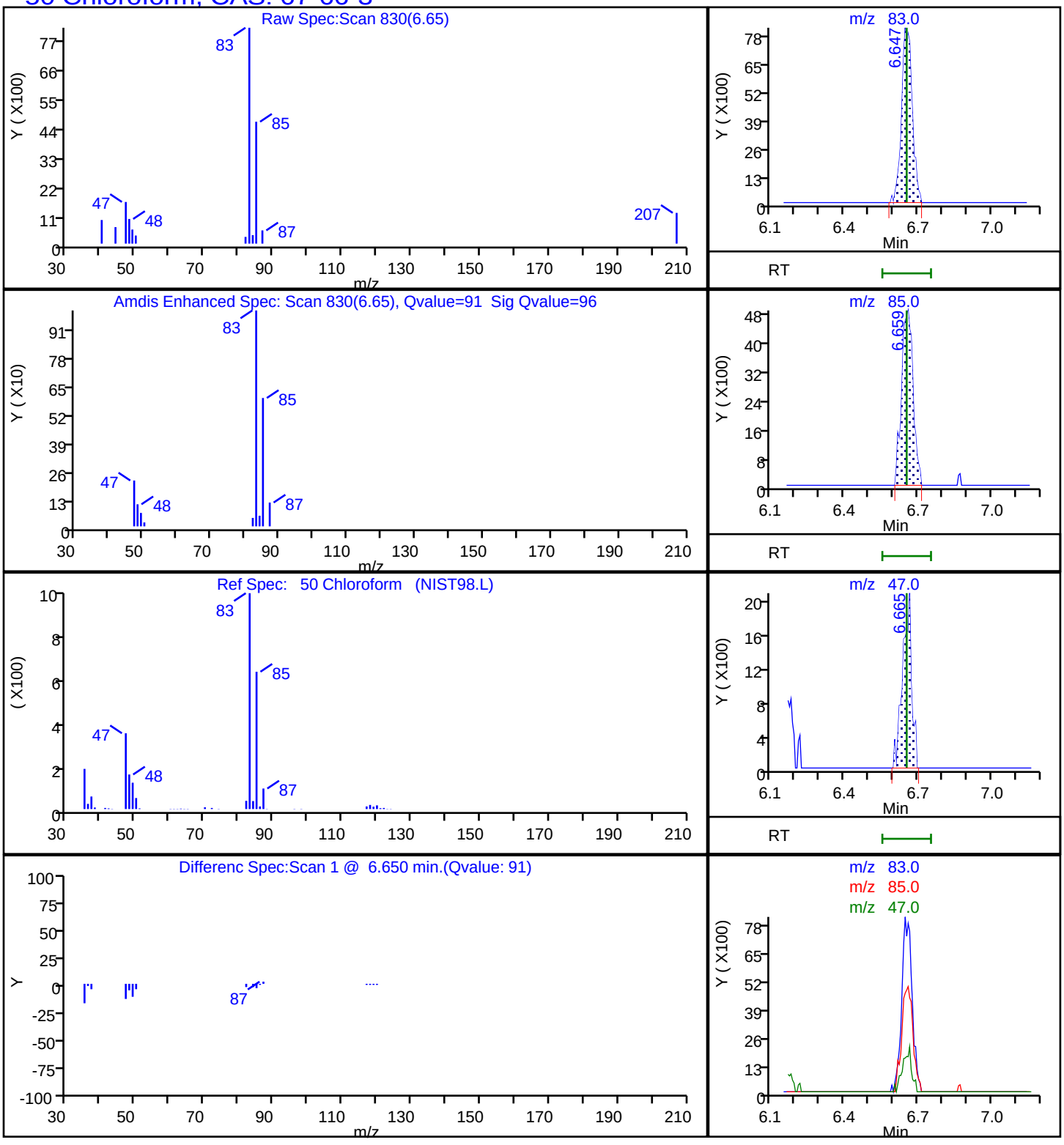
18 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X32.D				
Injection Date:	07-Jul-2021 19:34:30	Instrument ID:	19094		
Lims ID:	410-45147-A-13	Lab Sample ID:	410-45147-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	SRK36897	ALS Bottle#:	32	Worklist Smp#:	33
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

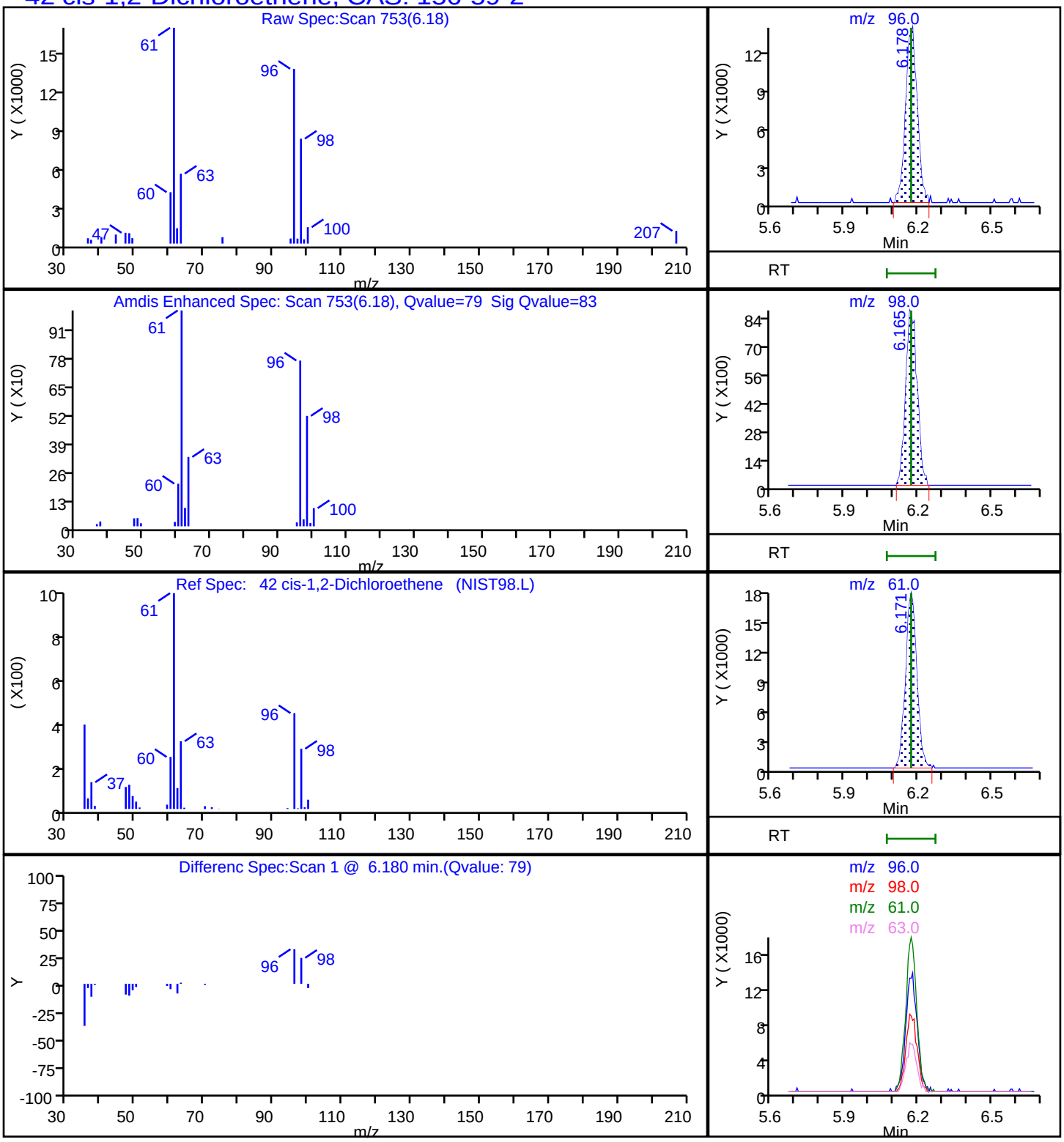
50 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X32.D				
Injection Date:	07-Jul-2021 19:34:30	Instrument ID:	19094		
Lims ID:	410-45147-A-13	Lab Sample ID:	410-45147-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	SRK36897	ALS Bottle#:	32	Worklist Smp#:	33
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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

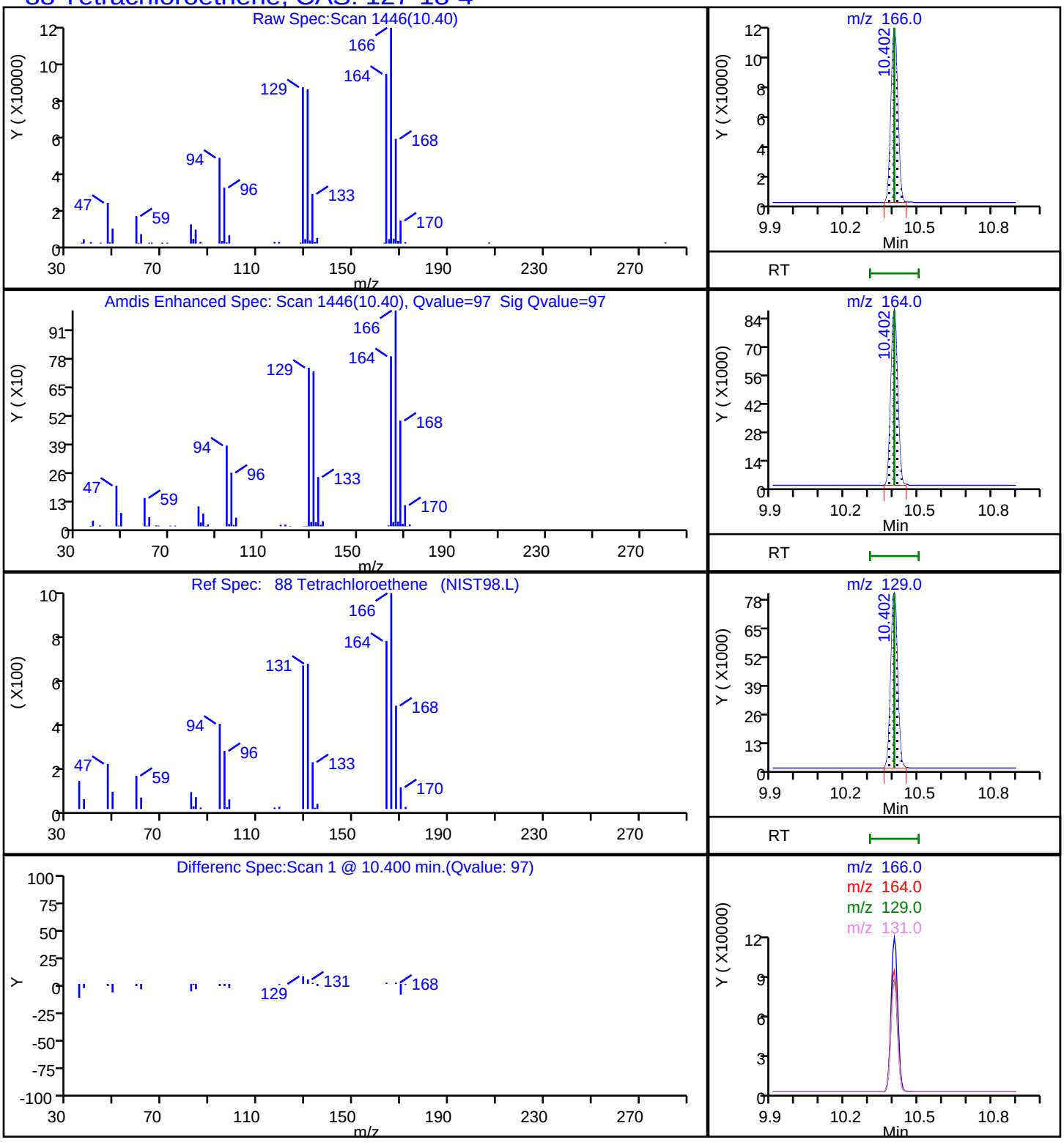


Report Date: 07-Jul-2021 20:10:27 Chrom Revision: 2.3 07-Jul-2021 12:11:26

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X32.D				
Injection Date:	07-Jul-2021 19:34:30	Instrument ID:	19094		
Lims ID:	410-45147-A-13	Lab Sample ID:	410-45147-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	SRK36897	ALS Bottle#:	32	Worklist Smp#:	33
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

88 Tetrachloroethene, CAS: 127-18-4



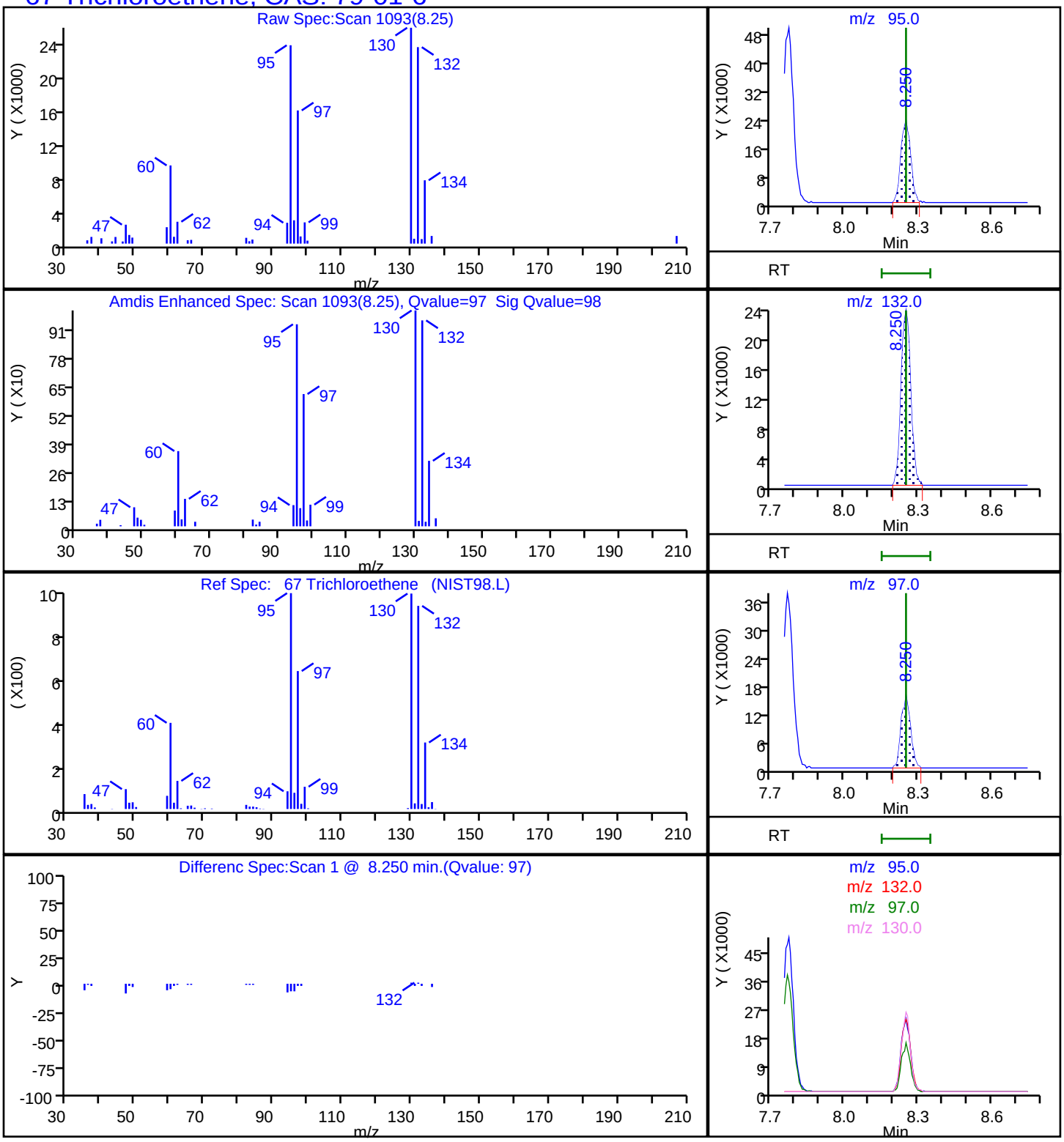
Report Date: 07-Jul-2021 20:10:27 Chrom Revision: 2.3 07-Jul-2021 12:11:26

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X32.D

Injection Date:	07-Jul-2021 19:34:30	Instrument ID:	19094		
Lims ID:	410-45147-A-13	Lab Sample ID:	410-45147-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	SRK36897	ALS Bottle#:	32	Worklist Smp#:	33
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

67 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-QC1-0/1-2 Lab Sample ID: 410-45147-14

Matrix: Water Lab File ID: HL07X09.D

Analysis Method: 8260D Date Collected: 06/24/2021 00:00

Sample wt/vol: 25(mL) Date Analyzed: 07/07/2021 11:38

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145644 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND		5.0	0.60
591-78-6	2-Hexanone	ND		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70
67-64-1	Acetone	ND		5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	ND		0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	ND		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-QC1-0/1-2 Lab Sample ID: 410-45147-14

Matrix: Water Lab File ID: HL07X09.D

Analysis Method: 8260D Date Collected: 06/24/2021 00:00

Sample wt/vol: 25(mL) Date Analyzed: 07/07/2021 11:38

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145644 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X09.D
Lims ID: 410-45147-A-14
Client ID: HD-QC1-0/1-2
Sample Type: Client
Inject. Date: 07-Jul-2021 11:38:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033672-010
Operator ID: SRK36897 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2021 17:04:30 Calib Date: 30-Jun-2021 20:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: knouses Date: 07-Jul-2021 12:25:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
6 Chloromethane	50		2.190				ND	
7 Vinyl chloride	62		2.312				ND	
9 Bromomethane	94		2.635				ND	
10 Chloroethane	64		2.727				ND	
18 1,1-Dichloroethene	96		3.593				ND	
19 Acetone	43		3.617				ND	7
24 Carbon disulfide	76		3.916				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.269	4.245	0.024	91	131931	50.0	
29 Methylene Chloride	84		4.257				ND	7
32 Methyl tert-butyl ether	73		4.672				ND	
33 trans-1,2-Dichloroethene	96		4.684				ND	
35 1,1-Dichloroethane	63		5.336				ND	
41 2-Butanone (MEK)	43		6.123				ND	
42 cis-1,2-Dichloroethene	96		6.171				ND	7
48 Chlorobromomethane	128		6.507				ND	
50 Chloroform	83		6.653				ND	
$ 51 Dibromofluoromethane (Surr)	113	6.872	6.866	0.006	93	470210	10.5	
52 1,1,1-Trichloroethane	97		6.885				ND	
56 Carbon tetrachloride	117		7.098				ND	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.330	7.324	0.006	46	92435	10.2	
59 Benzene	78		7.360				ND	
60 1,2-Dichloroethane	62		7.433				ND	7
* 65 Fluorobenzene (IS)	96	7.768	7.769	-0.001	99	1852113	10.0	
67 Trichloroethene	95		8.250				ND	
70 1,2-Dichloropropane	63		8.579				ND	
75 Dichlorobromomethane	83		8.927				ND	
80 cis-1,3-Dichloropropene	75		9.469				ND	
81 4-Methyl-2-pentanone (MIBK)	43		9.640				ND	
$ 82 Toluene-d8 (Surr)	98	9.780	9.780	0.000	93	1898469	9.54	
83 Toluene	92		9.854				ND	
85 trans-1,3-Dichloropropene	75		10.110				ND	
87 1,1,2-Trichloroethane	97		10.311				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166		10.402				ND	
91 2-Hexanone	43		10.524				ND	
93 Chlorodibromomethane	129		10.689				ND	
94 Ethylene Dibromide	107		10.805				ND	
* 97 Chlorobenzene-d5 (IS)	117	11.231	11.231	0.000	85	1481391	10.0	
S 95 Xylenes, Total	106		11.245				ND	7
98 Chlorobenzene	112		11.262				ND	
99 1,1,1,2-Tetrachloroethane	131		11.341				ND	
100 Ethylbenzene	91		11.347				ND	7
101 m-Xylene & p-Xylene	106		11.457				ND	7
102 o-Xylene	106		11.786				ND	
103 Styrene	104		11.804				ND	
104 Bromoform	173		11.963				ND	
$ 108 4-Bromofluorobenzene (Surr)	95	12.231	12.231	0.000	90	719776	9.91	
109 1,1,2,2-Tetrachloroethane	83		12.329				ND	7
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	95	806781	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00001 Amount Added: 5.00 Units: uL Run Reagent

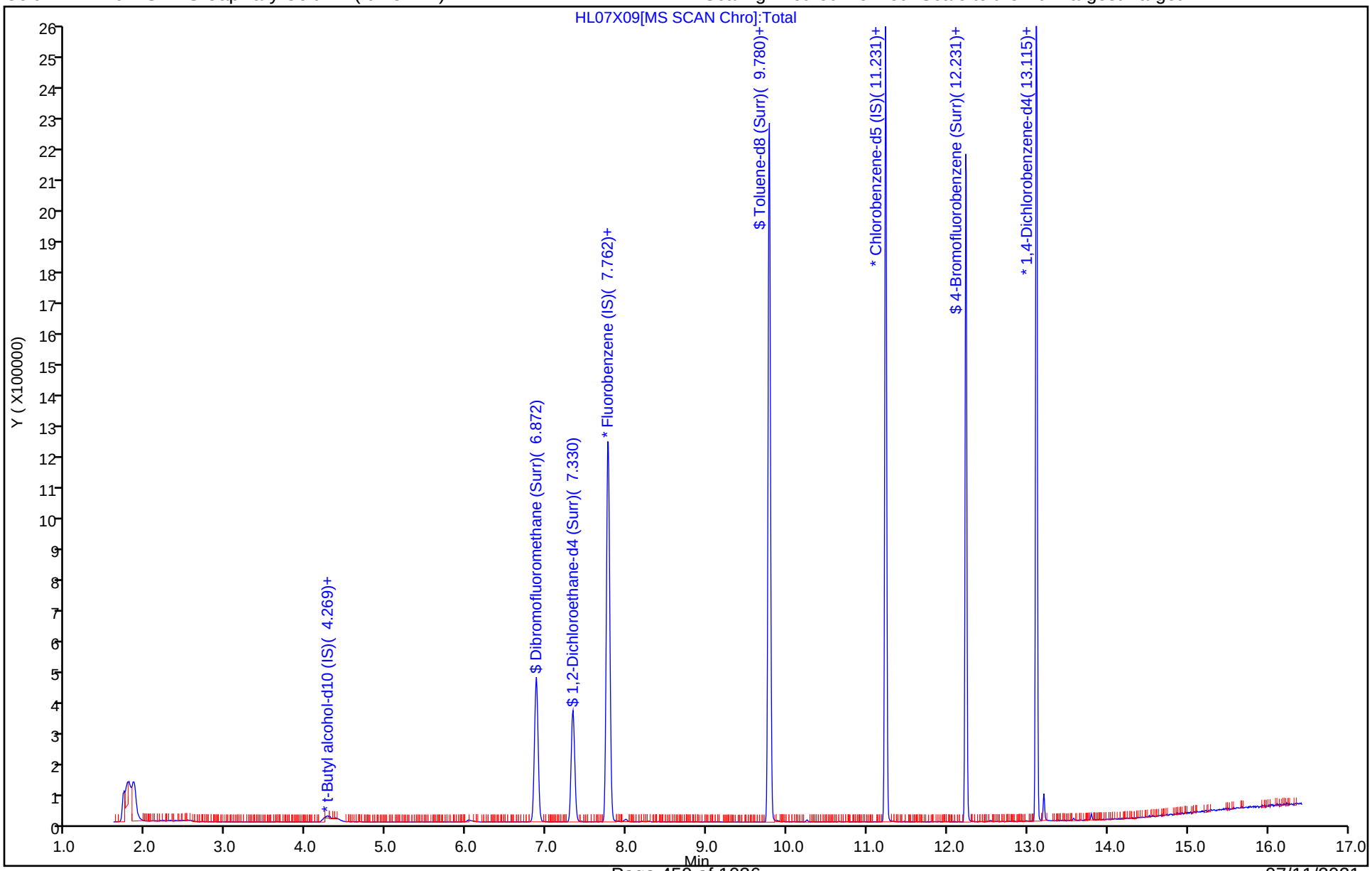
Report Date: 07-Jul-2021 17:05:02 Chrom Revision: 2.3 07-Jul-2021 12:11:26

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X09.D

Injection Date:	07-Jul-2021 11:38:30	Instrument ID:	19094	Operator ID:	SRK36897
Lims ID:	410-45147-A-14	Lab Sample ID:	410-45147-14	Worklist Smp#:	10
Client ID:	HD-QC1-0/1-2				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X09.D				
Lims ID:	410-45147-A-14				
Client ID:	HD-QC1-0/1-2				
Sample Type:	Client				
Inject. Date:	07-Jul-2021 11:38:30	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0033672-010				
Operator ID:	SRK36897	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Jul-2021 17:04:30	Calib Date:	30-Jun-2021 20:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1651				

First Level Reviewer: knouses Date: 07-Jul-2021 12:25:37

Compound	Amount Added	Amount Recovered	% Rec.
$ 51 Dibromofluoromethane (Surr)	10.0	10.5	104.94
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.16
$ 82 Toluene-d8 (Surr)	10.0	9.54	95.37
$ 108 4-Bromofluorobenzene (Surr)	10.0	9.91	99.09

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45147-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-102081/18	CM11X18.D
Level 2	IC 410-102081/17	CM11X17.D
Level 3	IC 410-102081/16	CM11X16.D
Level 4	IC 410-102081/15	CM11X15.D
Level 5	IC 410-102081/14	CM11X14.D
Level 6	ICIS 410-102081/13	CM11X13.D
Level 7	IC 410-102081/12	CM11X12.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	+++++ 0.2868	0.2407 0.2935	0.2474	0.2524	0.2643	Ave		0.2642			0.1000	8.2		20.0			
Chloromethane	0.3752 0.3347	0.3265 0.3251	0.3014	0.3014	0.3209	Ave		0.3264			0.1000	7.6		20.0			
1,3-Butadiene	0.3605 0.3474	0.3846 0.3474	0.3552	0.3624	0.3505	Ave		0.3583				3.6		20.0			
Vinyl chloride	0.2715 0.3238	0.2865 0.3208	0.2894	0.2921	0.3035	Ave		0.2982			0.1000	6.4		20.0			
Bromomethane	0.2388 0.2173	0.2165 0.2137	0.2040	0.1997	0.2113	Ave		0.2145			0.1000	5.8		20.0			
Chloroethane	0.2013 0.2015	0.1898 0.2010	0.1905	0.1844	0.1990	Ave		0.1954			0.1000	3.6		20.0			
Dichlorofluoromethane	0.4792 0.4671	0.4345 0.4641	0.4278	0.4222	0.4565	Ave		0.4502			0.1000	4.9		20.0			
Trichlorofluoromethane	+++++ 0.4374	0.3884 0.4323	0.3891	0.3858	0.4067	Ave		0.4066			0.1000	5.7		20.0			
Ethyl ether	0.2147 0.2317	0.2333 0.2273	0.2054	0.2087	0.2234	Ave		0.2206				5.1		20.0			
Freon 123a	0.2953 0.3157	0.3295 0.3240	0.3245	0.3237	0.3178	Ave		0.3186				3.5		20.0			
Acrolein	1.7897 1.5098	2.0571 2.1489	2.1340	2.0528	2.0064	Ave		1.9570				11.8		20.0			
1,1-Dichloroethene	0.2240 0.2279	0.2369 0.2306	0.2324	0.2287	0.2257	Ave		0.2295			0.1000	1.9		20.0			
Freon 113	0.1993 0.2587	0.2610 0.2626	0.2513	0.2582	0.2576	Ave		0.2498			0.1000	9.0		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.: 410-45147-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

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	2.1036 2.1276	2.3282 2.4595	2.3963	2.3914	2.3604	Ave		2.3096			0.1000	6.0		20.0			
Methyl iodide	0.4418 0.4498	0.4556 0.4514	0.4464	0.4498	0.4439	Ave		0.4484				1.0		20.0			
Carbon disulfide	0.7287 0.8139	0.7827 0.8189	0.7749	0.7767	0.7896	Ave		0.7836			0.1000	3.8		20.0			
Methyl acetate	4.3737 5.4862	4.7356 6.4960	4.5544	4.2722	5.5313	Ave		5.0642			0.1000	16.0		20.0			
Allyl chloride	0.4432 0.4378	0.4408 0.4361	0.3892	0.3896	0.4333	Ave		0.4243				5.7		20.0			
Methylene Chloride	0.2644 0.2571	0.2606 0.2556	0.2548	0.2568	0.2541	Ave		0.2576			0.1000	1.4		20.0			
t-Butyl alcohol	0.8752 0.8020	0.9651 0.9987	1.0057	0.8184	0.7927	Ave		0.8940				10.5		20.0			
Acrylonitrile	2.8111 3.1799	3.3883 3.5101	3.4613	3.1918	3.4262	Ave		3.2812				7.4		20.0			
Methyl tert-butyl ether	0.7385 0.7676	0.7697 0.7540	0.7563	0.7660	0.7475	Ave		0.7571			0.1000	1.5		20.0			
trans-1,2-Dichloroethene	0.2705 0.2612	0.2680 0.2644	0.2582	0.2649	0.2557	Ave		0.2633			0.1000	2.0		20.0			
n-Hexane	0.3485 0.4357	0.4327 0.4427	0.4098	0.4187	0.4250	Ave		0.4162				7.6		20.0			
1,1-Dichloroethane	0.4880 0.5050	0.5021 0.4989	0.5037	0.4957	0.4966	Ave		0.4986			0.2000	1.2		20.0			
di-Isopropyl ether	0.9094 0.9471	0.9427 0.9490	0.9396	0.9502	0.9311	Ave		0.9384				1.5		20.0			
2-Chloro-1,3-butadiene	0.4221 0.4646	0.4495 0.4774	0.4486	0.4476	0.4557	Ave		0.4522				3.8		20.0			
Ethyl t-butyl ether	0.8953 0.9201	0.9166 0.9151	0.9184	0.9197	0.9069	Ave		0.9132				1.0		20.0			
2-Butanone (MEK)	4.5493 4.4436	4.6060 4.9875	4.6974	4.8294	4.7430	Ave		4.6937			0.1000	3.9		20.0			
cis-1,2-Dichloroethene	0.2956 0.2951	0.3061 0.2972	0.2902	0.3007	0.2879	Ave		0.2961			0.1000	2.1		20.0			
2,2-Dichloropropane	0.3821 0.4121	0.4087 0.4199	0.4003	0.4097	0.4018	Ave		0.4049				3.0		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.: 410-45147-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

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	1.1615 1.2455	1.1135 1.3697	1.1352	1.3221	1.3168	Ave		1.2377				8.3		20.0			
Methacrylonitrile	4.4673 4.3334	4.6032 5.0491	4.6880	4.6025	4.6775	Ave		4.6316				4.8		20.0			
Bromochloromethane	0.1280 0.1353	0.1411 0.1341	0.1249	0.1252	0.1323	Ave		0.1316				4.5		20.0			
Tetrahydrofuran	1.2020 1.2950	1.3535 1.4765	1.3624	1.3960	1.3764	Ave		1.3517				6.3		20.0			
Chloroform	0.4716 0.4771	0.4900 0.4812	0.4744	0.4766	0.4662	Ave		0.4767			0.2000	1.6		20.0			
1,1,1-Trichloroethane	0.3890 0.4249	0.4383 0.4347	0.4134	0.4192	0.4170	Ave		0.4195			0.1000	3.9		20.0			
Cyclohexane	0.4367 0.5206	0.5050 0.5344	0.4985	0.5078	0.5070	Ave		0.5014			0.1000	6.2		20.0			
Carbon tetrachloride	0.3005 0.3661	0.3515 0.3788	0.3488	0.3482	0.3563	Ave		0.3500			0.1000	7.0		20.0			
1,1-Dichloropropene	0.3728 0.3967	0.3943 0.4064	0.3833	0.3872	0.3876	Ave		0.3897				2.7		20.0			
Isobutyl alcohol	0.3363 0.3289	0.3164 0.3803	0.3370	0.3019	0.3229	Ave		0.3320				7.4		20.0			
Benzene	1.1006 1.1323	1.1629 1.1485	1.1182	1.1212	1.1222	Ave		1.1294			0.5000	1.8		20.0			
1,2-Dichloroethane	0.3575 0.3307	0.3531 0.3278	0.3264	0.3313	0.3293	Ave		0.3366			0.1000	3.8		20.0			
t-Amyl methyl ether	0.7739 0.8284	0.8269 0.8175	0.8057	0.8183	0.8196	Ave		0.8129				2.3		20.0			
n-Heptane	0.4399 0.4836	0.4562 0.4867	0.4407	0.4431	0.4518	Ave		0.4574				4.3		20.0			
n-Butanol	0.2349 0.3006	0.2657 0.3702	0.2716	0.2524	0.2752	Ave		0.2815				15.6		20.0			
Trichloroethene	0.2727 0.2885	0.2926 0.2951	0.2852	0.2861	0.2835	Ave		0.2862			0.2000	2.5		20.0			
Methylcyclohexane	+++++ 0.5446	0.5161 0.5436	0.4791	0.4632	0.5276	Ave		0.5124			0.1000	6.6		20.0			
1,2-Dichloropropane	0.2808 0.2956	0.2970 0.3025	0.2850	0.2920	0.2900	Ave		0.2918			0.1000	2.5		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.: 410-45147-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

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	8.5666 8.6493	8.8253 11.051	9.3723	9.6958	9.4060	Ave		9.3667				9.1		20.0			
Dibromomethane	0.1287 0.1401	0.1345 0.1399	0.1366	0.1369	0.1373	Ave		0.1363				2.8		20.0			
1,4-Dioxane	+++++ 0.0490	0.0718 0.0735	0.0628	0.0526	0.0522	Ave		0.0603			0.0050	17.6		20.0			
Bromodichloromethane	0.3187 0.3494	0.3315 0.3562	0.3332	0.3373	0.3385	Ave		0.3378			0.2000	3.6		20.0			
2-Nitropropane	3.0227 2.9296	2.6333 3.5570	3.0168	3.1243	3.1422	Ave		3.0608				9.0		20.0			
cis-1,3-Dichloropropene	0.4138 0.4529	0.4239 0.4618	0.4188	0.4442	0.4400	Ave		0.4365			0.2000	4.2		20.0			
4-Methyl-2-pentanone (MIBK)	11.126 12.213	12.449 14.989	12.890	13.367	13.367	Ave		12.914			0.1000	9.3		20.0			
Toluene	0.9483 0.9804	0.9837 1.0093	0.9708	0.9802	0.9627	Ave		0.9765			0.4000	2.0		20.0			
trans-1,3-Dichloropropene	0.4777 0.5209	0.4712 0.5390	0.4785	0.4873	0.5083	Ave		0.4976			0.1000	5.1		20.0			
Ethyl methacrylate	0.3816 0.4530	0.3820 0.4573	0.4079	0.4387	0.4332	Ave		0.4219				7.5		20.0			
1,1,2-Trichloroethane	0.2788 0.2698	0.2771 0.2709	0.2636	0.2752	0.2650	Ave		0.2715			0.1000	2.2		20.0			
Tetrachloroethene	0.3769 0.4172	0.4279 0.4324	0.4073	0.4197	0.4160	Ave		0.4139			0.2000	4.4		20.0			
1,3-Dichloropropane	0.4704 0.4943	0.4847 0.4931	0.4764	0.4884	0.4860	Ave		0.4847				1.8		20.0			
2-Hexanone	9.1578 8.8425	8.9604 10.902	9.1325	9.5103	9.6798	Ave		9.4551			0.1000	7.4		20.0			
Dibromochloromethane	0.2606 0.3332	0.2862 0.3438	0.2875	0.3071	0.3189	Ave		0.3053				9.6		20.0			
1,2-Dibromoethane (EDB)	0.2411 0.2694	0.2601 0.2726	0.2565	0.2669	0.2666	Ave		0.2619			0.1000	4.1		20.0			
1-Chlorohexane	0.5755 0.5570	0.5814 0.5805	0.5423	0.5530	0.5471	Ave		0.5624				2.9		20.0			
Chlorobenzene	1.1039 1.0997	1.1268 1.1255	1.0908	1.0808	1.0810	Ave		1.1012			0.5000	1.7		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.: 410-45147-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

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	0.3450 0.3823	0.3542 0.3963	0.3503	0.3720	0.3716	Ave		0.3674				5.0		20.0			
Ethylbenzene	1.8210 1.9320	1.9020 1.9996	1.8818	1.9030	1.8903	Ave		1.9042			0.1000	2.8		20.0			
m&p-Xylene	0.6924 0.7519	0.7421 0.7747	0.7289	0.7421	0.7394	Ave		0.7388			0.1000	3.4		20.0			
o-Xylene	0.7020 0.7411	0.7364 0.7691	0.7181	0.7455	0.7345	Ave		0.7352			0.3000	2.9		20.0			
Styrene	1.1583 1.2656	1.2148 1.3049	1.1860	1.2297	1.2317	Ave		1.2273			0.3000	4.0		20.0			
Bromoform	0.1422 0.1940	0.1604 0.2036	0.1595	0.1737	0.1815	Ave		0.1736			0.1000	12.3		20.0			
Isopropylbenzene	1.7449 1.9465	1.9163 2.0111	1.8833	1.9162	1.9269	Ave		1.9065			0.1000	4.3		20.0			
1,1,2,2-Tetrachloroethane	0.5823 0.6508	0.6418 0.6497	0.6382	0.6216	0.6393	Ave		0.6320			0.3000	3.8		20.0			
Bromobenzene	0.8547 0.8409	0.8627 0.8544	0.8515	0.8484	0.8425	Ave		0.8507				0.9		20.0			
trans-1,4-Dichloro-2-butene	0.1526 0.1995	0.1751 0.2041	0.1842	0.1880	0.1911	Ave		0.1849				9.3		20.0			
1,2,3-Trichloropropane	0.1594 0.1746	0.1737 0.1703	0.1712	0.1748	0.1713	Ave		0.1708				3.1		20.0			
N-Propylbenzene	3.8559 4.1319	4.2223 4.2515	4.1212	4.0623	4.1745	Ave		4.1171				3.2		20.0			
2-Chlorotoluene	0.8450 0.8478	0.8775 0.8613	0.8397	0.8512	0.8428	Ave		0.8522				1.5		20.0			
1,3,5-Trimethylbenzene	2.8382 3.0501	3.0135 3.1572	3.0190	2.9969	3.0422	Ave		3.0167				3.1		20.0			
4-Chlorotoluene	0.8670 0.8784	0.9375 0.8989	0.8924	0.8849	0.8843	Ave		0.8919				2.5		20.0			
tert-Butylbenzene	0.6441 0.6576	0.6478 0.6768	0.6387	0.6454	0.6542	Ave		0.6521				1.9		20.0			
Pentachloroethane	0.4071 0.5210	0.4617 0.5395	0.4154	0.4370	0.5055	Ave		0.4696				11.3		20.0			
1,2,4-Trimethylbenzene	2.8279 3.1882	3.1600 3.3059	3.0581	3.1365	3.1712	Ave		3.1211				4.8		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
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45147-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

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	3.4504 3.9674	3.8585 4.0784	3.9054	3.8693	3.9338	Ave		3.8662				5.1		20.0			
1,3-Dichlorobenzene	1.6201 1.6859	1.6718 1.7265	1.6948	1.6902	1.6743	Ave		1.6805			0.6000	1.9		20.0			
p-Isopropyltoluene	3.0024 3.4343	3.3569 3.5772	3.3416	3.3747	3.4252	Ave		3.3589				5.2		20.0			
1,4-Dichlorobenzene	1.7319 1.7202	1.7473 1.7495	1.7241	1.7128	1.6992	Ave		1.7264			0.5000	1.0		20.0			
1,2,3-Trimethylbenzene	1.4210 1.4153	1.4358 1.4246	1.3128	1.2867	1.4129	Ave		1.3870				4.4		20.0			
Benzyl chloride	0.1745 0.2722	0.1997 0.2848	0.2191	0.2392	0.2605	Ave		0.2357				17.0		20.0			
n-Butylbenzene	1.6456 1.7625	1.6566 1.8201	1.6724	1.6895	1.7487	Ave		1.7136				3.8		20.0			
1,2-Dichlorobenzene	1.5864 1.5782	1.5916 1.5941	1.5934	1.5706	1.5674	Ave		1.5831			0.4000	0.7		20.0			
1,2-Dibromo-3-Chloropropane	0.0692 0.0985	0.0806 0.0983	0.0844	0.0907	0.0902	Ave		0.0874			0.0500	11.9		20.0			
1,3,5-Trichlorobenzene	1.3585 1.3736	1.4033 1.4118	1.3635	1.3662	1.3753	Ave		1.3789				1.5		20.0			
1,2,4-Trichlorobenzene	1.2097 1.2527	1.2399 1.2568	1.2231	1.2474	1.2426	Ave		1.2389			0.2000	1.4		20.0			
Hexachlorobutadiene	0.5169 0.6110	0.6018 0.6204	0.5963	0.5770	0.5957	Ave		0.5884				5.8		20.0			
Naphthalene	2.1636 2.3099	2.1932 2.2323	2.1713	2.3029	2.2648	Ave		2.2340				2.7		20.0			
1,2,3-Trichlorobenzene	1.1382 1.0983	1.1033 1.0862	1.0888	1.1002	1.0930	Ave		1.1011				1.6		20.0			
Dibromofluoromethane (Surr)	0.2355 0.2387	0.2370 0.2377	0.2362	0.2372	0.2351	Ave		0.2368				0.5		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0486 0.0493	0.0490 0.0480	0.0493	0.0489	0.0483	Ave		0.0488				1.0		20.0			
Toluene-d8 (Surr)	1.3363 1.3424	1.3407 1.3415	1.3256	1.3406	1.3371	Ave		1.3378				0.4		20.0			
4-Bromofluorobenzene (Surr)	0.5107 0.5181	0.5115 0.5143	0.5067	0.5117	0.5137	Ave		0.5124				0.7		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45147-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-102081/18	CM11X18.D
Level 2	IC 410-102081/17	CM11X17.D
Level 3	IC 410-102081/16	CM11X16.D
Level 4	IC 410-102081/15	CM11X15.D
Level 5	IC 410-102081/14	CM11X14.D
Level 6	ICIS 410-102081/13	CM11X13.D
Level 7	IC 410-102081/12	CM11X12.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	+++++ 638910	26325 1652589	54318	111163	294102	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	16127 745676	35701 1830118	66165	132701	357138	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	15497 773897	42056 1956045	77994	159570	390039	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	11671 721419	31326 1805860	63531	128627	337747	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	10263 484085	23670 1202958	44794	87944	235118	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	8651 448998	20758 1131496	41826	81222	221465	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	20597 1040739	47511 2612848	93918	185905	508015	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	+++++ 974568	42470 2433596	85429	169901	452638	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	9230 516266	25522 1279724	45094	91906	248665	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 123a	FB	Ave	12692 703428	36027 1823966	71240	142547	353727	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd 10	Ave	62338 2949165	175965 8359764	353509	710384	1720138	10.00 500	25.0 1250	50.0	100.0	250
1,1-Dichloroethene	FB	Ave	9628 507852	25908 1298230	51031	100690	251228	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 113	FB	Ave	8566 576399	28545 1478508	55171	113688	286674	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.: 410-45147-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

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	14655 831213	39833 1913703	79397	165522	404761	2.00 100	5.00 250	10.0	20.0	50.0
Methyl iodide	FB	Ave	18991 1002107	49816 2541566	98011	198061	494002	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon disulfide	FB	Ave	31322 1813268	85582 4610358	170125	342025	878787	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd10	Ave	3047 214332	8102 505443	15090	29570	94849	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	19050 975407	48201 2455479	85456	171541	482293	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	11365 572783	28496 1438992	55939	113062	282773	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd10	Ave	12195 626623	33022 1554132	66645	113296	271870	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd10	Ave	9792 621154	28985 1365561	57341	110460	293755	1.00 50.0	2.50 125	5.00	10.0	25.0
Methyl tert-butyl ether	FB	Ave	31742 1710267	84164 4245068	166043	337303	831909	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	11628 582033	29304 1488618	56687	116638	284572	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	14981 970731	47320 2492359	89978	184368	473040	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	20975 1125021	54906 2808790	110580	218292	552735	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	39087 2110173	103081 5342831	206284	418436	1036220	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	18141 1035042	49154 2687975	98492	197110	507130	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	38483 2049982	100234 5152143	201628	404995	1009285	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone (MEK)	TBAd10	Ave	31693	78803	155637	334264	813308	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.: 410-45147-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

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
			1736002	3880715				100	250			
cis-1,2-Dichloroethene	FB	Ave	12707 657423	33468 1673100	63722	132404	320444	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	16422 918101	44691 2363941	87880	180432	447147	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Propionitrile	TBAd 10	Ave	16183 973196	38100 2131411	75221	183011	451607	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd 10	Ave	31122 1692968	78755 3928598	155324	318559	802091	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	5501 301517	15433 754935	27419	55137	147269	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd 10	Ave	8374 505929	23156 1148846	45139	96621	236023	2.00 100	5.00 250	10.0	20.0	50.0
Chloroform	FB	Ave	20269 1062972	53577 2709148	104144	209889	518824	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	16721 946677	47924 2447521	90751	184579	464120	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	18772 1159833	55219 3008460	109442	223626	564209	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	12915 815634	38434 2132402	76572	153315	396536	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	16022 883868	43115 2287812	84150	170486	431370	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	TBAd 10	Ave	11714 642545	27067 1479573	55836	104478	276854	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	47305 2522805	127165 6465992	245502	493717	1248937	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	15366 736795	38607 1845635	71667	145889	366485	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	33265 1845644	90424 4602714	176879	360361	912145	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	18909	49882	96761	195123	502833	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.: 410-45147-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

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
			1077491	2739891				10.0	25.0			
n-Butanol	TBAd 10	Ave	16368 1174357	45459 2880806	89995	174724	471831	20.0 1000	50.0 2500	100	200	500
Trichloroethene	FB	Ave	11721 642792	31990 1661655	62611	125981	315510	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	+++++ 1213428	56435 3060627	105184	203974	587148	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	12070 658625	32475 1702805	62574	128598	322727	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl methacrylate	TBAd 10	Ave	5968 337909	15099 859899	31053	67109	161291	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromomethane	FB	Ave	5533 312160	14702 787764	29994	60285	152781	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBAd 10	Ave	+++++ 95813	6141 286043	10402	18216	44758	+++++ 500	25.0 1250	50.0	100	250
Bromodichloromethane	FB	Ave	13700 778515	36245 2005156	73153	148536	376731	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBAd 10	Ave	21058 1144511	45053 2767627	99954	216244	538810	2.00 100	5.00 250	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	17787 1009092	46348 2599891	91944	195611	489649	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone (MIBK)	TBAd 10	Ave	77509 4771407	212989 11662350	427068	925221	2292161	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd 5	Ave	30140 1605937	79287 4165555	157189	318476	789331	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd 5	Ave	15184 853284	37981 2224350	77480	158328	416755	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd 5	Ave	12129	30786	66038	142527	355177	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.: 410-45147-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

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
			742086	1887282				10.0	25.0			
1,1,2-Trichloroethane	CBZd 5	Ave	8862 441913	22332 1117976	42688	89420	217256	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd 5	Ave	11980 683362	34486 1784436	65949	136374	341079	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd 5	Ave	14952 809652	39064 2035100	77132	158670	398453	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBAd 10	Ave	63799 3454536	153300 8482959	302584	658249	1659867	2.00 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd 5	Ave	8282 545778	23068 1418943	46550	99777	261477	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane (EDB)	CBZd 5	Ave	7663 441336	20961 1125164	41539	86725	218598	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd 5	Ave	18290 912423	46860 2395674	87814	179673	448580	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chlorobenzene	CBZd 5	Ave	35087 1801305	90818 4644976	176620	351160	886357	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd 5	Ave	10966 626288	28551 1635507	56719	120869	304715	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd 5	Ave	57877 3164725	153300 8252418	304702	618284	1549862	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd 5	Ave	44013 2463343	119625 6394334	236059	482205	1212550	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd 5	Ave	22311	59355	116267	242196	602252	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.: 410-45147-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

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
			1213911	3174221				10.0	25.0			
Styrene	CBZd 5	Ave	36816 2073083	97913 5385417	192033	399519	1009923	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd 5	Ave	4521 317762	12929 840188	25830	56445	148820	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd 5	Ave	55459 3188415	154456 8299693	304935	622578	1579935	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	10091 592875	27999 1491735	55717	110832	286030	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd 4	Ave	14812 766044	37632 1961825	74343	151266	376924	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	26446 1817706	76366 4687257	160817	335202	854847	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	2762 159063	7579 391011	14947	31166	76620	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd 4	Ave	66820 3763997	184191 9762204	359813	724330	1867683	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd 4	Ave	14644 772351	38280 1977820	73314	151778	377056	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd 4	Ave	49185 2778516	131460 7249442	263579	534368	1361103	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd 4	Ave	15024 800200	40898 2064098	77916	157773	395625	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd 4	Ave	11161	28261	55767	115071	292682	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.: 410-45147-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

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
			599057	1553945				10.0	25.0			
Pentachloroethane	DCBd 4	Ave	7055 474580	20143 1238770	36271	77921	226171	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd 4	Ave	49005 2904330	137851 7590861	266991	559260	1418798	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd 4	Ave	59794 3614098	168319 9364813	340967	689917	1759985	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichlorobenzene	DCBd 4	Ave	28076 1535756	72929 3964367	147971	301375	749097	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd 4	Ave	52030 3128497	146440 8213926	291744	601720	1532453	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd 4	Ave	30013 1567051	76222 4017272	150524	305402	760244	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd 4	Ave	24625 1289256	62634 3271199	114621	229432	632118	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd 4	Ave	3024 247999	8712 654069	19132	42651	116529	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd 4	Ave	28518 1605529	72265 4179344	146017	301250	782387	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd 4	Ave	27492 1437655	69431 3660345	139116	280041	701278	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1199 89706	3514 225774	7365	16170	40377	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd 4	Ave	23542	61216	119040	243600	615322	0.200	0.500	1.00	2.00	5.00

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GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45147-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

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
			1251301	3241837				10.0	25.0			
1,2,4-Trichlorobenzene	DCBd 4	Ave	20963 1141116	54089 2885935	106787	222413	555942	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd 4	Ave	8957 556571	26251 1424579	52061	102890	266521	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd 4	Ave	37493 2104181	95674 5125836	189574	410615	1013305	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd 4	Ave	19725 1000463	48128 2494082	95061	196165	488994	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	506093 531772	518402 535299	518482	522307	523395	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	104513 109786	107097 108178	108133	107636	107522	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd 5	Ave	2123666 2198871	2161262 2214550	2146383	2177829	2192656	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	811561 848690	824527 848962	820392	831177	842387	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.: 410-45147-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-102081/18	CM11X18.D
Level 2	IC 410-102081/17	CM11X17.D
Level 3	IC 410-102081/16	CM11X16.D
Level 4	IC 410-102081/15	CM11X15.D
Level 5	IC 410-102081/14	CM11X14.D
Level 6	ICIS 410-102081/13	CM11X13.D
Level 7	IC 410-102081/12	CM11X12.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	+++++ 11.1	-8.9	-6.4	-4.4	0.0	8.5	30	50	30	30	30	30
Chloromethane	14.9 -0.4	0.0	-7.7	-7.7	-1.7	2.5	50 30	30	30	30	30	30
1,3-Butadiene	0.6 -3.0	7.3	-0.8	1.1	-2.2	-3.1	50 30	30	30	30	30	30
Vinyl chloride	-8.9 7.6	-3.9	-3.0	-2.1	1.8	8.6	50 30	30	30	30	30	30
Bromomethane	11.3 -0.4	0.9	-4.9	-6.9	-1.5	1.3	50 30	30	30	30	30	30
Chloroethane	3.0 2.9	-2.8	-2.5	-5.6	1.9	3.2	50 30	30	30	30	30	30
Dichlorofluoromethane	6.4 3.1	-3.5	-5.0	-6.2	1.4	3.8	50 30	30	30	30	30	30
Trichlorofluoromethane	+++++ 6.3	-4.5	-4.3	-5.1	0.0	7.6	30	50	30	30	30	30
Ethyl ether	-2.7 3.0	5.8	-6.9	-5.4	1.3	5.0	50 30	30	30	30	30	30
Freon 123a	-7.3 1.7	3.4	1.8	1.6	-0.3	-0.9	50 30	30	30	30	30	30
Acrolein	-8.5 9.8	5.1	9.0	4.9	2.5	-22.8	50 30	30	30	30	30	30
1,1-Dichloroethene	-2.4 0.5	3.3	1.3	-0.4	-1.6	-0.7	50 30	30	30	30	30	30
Freon 113	-20.2 5.1	4.5	0.6	3.3	3.1	3.6	50 30	30	30	30	30	30
Acetone	-8.9 6.5	0.8	3.8	3.5	2.2	-7.9	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45147-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

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	-1.5 0.7	1.6	-0.4	0.3	-1.0	0.3	50 30	30	30	30	30	30
Carbon disulfide	-7.0 4.5	-0.1	-1.1	-0.9	0.8	3.9	50 30	30	30	30	30	30
Methyl acetate	-13.6 28.3	-6.5	-10.1	-15.6	9.2	8.3	50 30	30	30	30	30	30
Allyl chloride	4.5 2.8	3.9	-8.3	-8.2	2.1	3.2	50 30	30	30	30	30	30
Methylene Chloride	2.6 -0.8	1.2	-1.1	-0.3	-1.4	-0.2	50 30	30	30	30	30	30
t-Butyl alcohol	-2.1 11.7	8.0	12.5	-8.4	-11.3	-10.3	50 30	30	30	30	30	30
Acrylonitrile	-14.3 7.0	3.3	5.5	-2.7	4.4	-3.1	50 30	30	30	30	30	30
Methyl tert-butyl ether	-2.5 -0.4	1.7	-0.1	1.2	-1.3	1.4	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	2.8 0.4	1.8	-1.9	0.6	-2.9	-0.8	50 30	30	30	30	30	30
n-Hexane	-16.3 6.4	4.0	-1.5	0.6	2.1	4.7	50 30	30	30	30	30	30
1,1-Dichloroethane	-2.1 0.1	0.7	1.0	-0.6	-0.4	1.3	50 30	30	30	30	30	30
di-Isopropyl ether	-3.1 1.1	0.5	0.1	1.3	-0.8	0.9	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-6.7 5.6	-0.6	-0.8	-1.0	0.8	2.7	50 30	30	30	30	30	30
Ethyl t-butyl ether	-2.0 0.2	0.4	0.6	0.7	-0.7	0.8	50 30	30	30	30	30	30
2-Butanone (MEK)	-3.1 6.3	-1.9	0.1	2.9	1.0	-5.3	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-0.2 0.4	3.4	-2.0	1.5	-2.8	-0.4	50 30	30	30	30	30	30
2,2-Dichloropropane	-5.6 3.7	0.9	-1.1	1.2	-0.8	1.8	50 30	30	30	30	30	30
Propionitrile	-6.2 10.7	-10.0	-8.3	6.8	6.4	0.6	50 30	30	30	30	30	30
Methacrylonitrile	-3.5 9.0	-0.6	1.2	-0.6	1.0	-6.4	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.: 410-45147-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

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	-2.7 1.9	7.3	-5.1	-4.8	0.6	2.9	50 30	30	30	30	30	30
Tetrahydrofuran	-11.1 9.2	0.1	0.8	3.3	1.8	-4.2	50 30	30	30	30	30	30
Chloroform	-1.1 0.9	2.8	-0.5	0.0	-2.2	0.1	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-7.3 3.6	4.5	-1.5	-0.1	-0.6	1.3	50 30	30	30	30	30	30
Cyclohexane	-12.9 6.6	0.7	-0.6	1.3	1.1	3.8	50 30	30	30	30	30	30
Carbon tetrachloride	-14.2 8.2	0.4	-0.4	-0.5	1.8	4.6	50 30	30	30	30	30	30
1,1-Dichloropropene	-4.4 4.3	1.2	-1.7	-0.7	-0.6	1.8	50 30	30	30	30	30	30
Isobutyl alcohol	1.3 14.6	-4.7	1.5	-9.1	-2.7	-0.9	50 30	30	30	30	30	30
Benzene	-2.6 1.7	3.0	-1.0	-0.7	-0.6	0.3	50 30	30	30	30	30	30
1,2-Dichloroethane	6.2 -2.6	4.9	-3.0	-1.6	-2.2	-1.7	50 30	30	30	30	30	30
t-Amyl methyl ether	-4.8 0.6	1.7	-0.9	0.7	0.8	1.9	50 30	30	30	30	30	30
n-Heptane	-3.8 6.4	-0.3	-3.7	-3.1	-1.2	5.7	50 30	30	30	30	30	30
n-Butanol	-16.5 31.5 *	-5.6	-3.5	-10.3	-2.3	6.8	50 30	30	30	30	30	30
Trichloroethene	-4.7 3.1	2.2	-0.4	-0.1	-1.0	0.8	50 30	30	30	30	30	30
Methylcyclohexane	+++++ 6.1	0.7	-6.5	-9.6	3.0	6.3	 30	50	30	30	30	30
1,2-Dichloropropane	-3.8 3.6	1.8	-2.3	0.1	-0.6	1.3	50 30	30	30	30	30	30
Methyl methacrylate	-8.5 18.0	-5.8	0.1	3.5	0.4	-7.7	50 30	30	30	30	30	30
Dibromomethane	-5.5 2.7	-1.3	0.2	0.5	0.7	2.8	50 30	30	30	30	30	30
1,4-Dioxane	+++++ 21.9	19.0	4.1	-12.8	-13.5	-18.7	 30	50	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.: 410-45147-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

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	-5.7 5.4	-1.9	-1.4	-0.2	0.2	3.4	50 30	30	30	30	30	30
2-Nitropropane	-1.2 16.2	-14.0	-1.4	2.1	2.7	-4.3	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-5.2 5.8	-2.9	-4.1	1.8	0.8	3.8	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	-13.8 16.1	-3.6	-0.2	3.5	3.5	-5.4	50 30	30	30	30	30	30
Toluene	-2.9 3.4	0.7	-0.6	0.4	-1.4	0.4	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-4.0 8.3	-5.3	-3.8	-2.1	2.2	4.7	50 30	30	30	30	30	30
Ethyl methacrylate	-9.6 8.4	-9.5	-3.3	4.0	2.7	7.4	50 30	30	30	30	30	30
1,1,2-Trichloroethane	2.7 -0.2	2.1	-2.9	1.4	-2.4	-0.6	50 30	30	30	30	30	30
Tetrachloroethene	-8.9 4.5	3.4	-1.6	1.4	0.5	0.8	50 30	30	30	30	30	30
1,3-Dichloropropane	-3.0 1.7	0.0	-1.7	0.7	0.3	2.0	50 30	30	30	30	30	30
2-Hexanone	-3.1 15.3	-5.2	-3.4	0.6	2.4	-6.5	50 30	30	30	30	30	30
Dibromochloromethane	-14.7 12.6	-6.3	-5.8	0.6	4.4	9.1	50 30	30	30	30	30	30
1,2-Dibromoethane (EDB)	-7.9 4.1	-0.7	-2.0	1.9	1.8	2.9	50 30	30	30	30	30	30
1-Chlorohexane	2.3 3.2	3.4	-3.6	-1.7	-2.7	-1.0	50 30	30	30	30	30	30
Chlorobenzene	0.2 2.2	2.3	-0.9	-1.9	-1.8	-0.1	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-6.1 7.9	-3.6	-4.7	1.3	1.2	4.1	50 30	30	30	30	30	30
Ethylbenzene	-4.4 5.0	-0.1	-1.2	-0.1	-0.7	1.5	50 30	30	30	30	30	30
m&p-Xylene	-6.3 4.9	0.4	-1.3	0.4	0.1	1.8	50 30	30	30	30	30	30
o-Xylene	-4.5 4.6	0.2	-2.3	1.4	-0.1	0.8	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.: 410-45147-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

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	-5.6 6.3	-1.0	-3.4	0.2	0.4	3.1	50 30	30	30	30	30	30
Bromoform	-18.0 17.3	-7.6	-8.1	0.1	4.6	11.8	50 30	30	30	30	30	30
Isopropylbenzene	-8.5 5.5	0.5	-1.2	0.5	1.1	2.1	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-7.9 2.8	1.6	1.0	-1.6	1.2	3.0	50 30	30	30	30	30	30
Bromobenzene	0.5 0.4	1.4	0.1	-0.3	-1.0	-1.2	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-17.5 10.4	-5.3	-0.4	1.7	3.3	7.9	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-6.7 -0.3	1.7	0.3	2.4	0.3	2.3	50 30	30	30	30	30	30
N-Propylbenzene	-6.3 3.3	2.6	0.1	-1.3	1.4	0.4	50 30	30	30	30	30	30
2-Chlorotoluene	-0.8 1.1	3.0	-1.5	-0.1	-1.1	-0.5	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-5.9 4.7	-0.1	0.1	-0.7	0.8	1.1	50 30	30	30	30	30	30
4-Chlorotoluene	-2.8 0.8	5.1	0.1	-0.8	-0.9	-1.5	50 30	30	30	30	30	30
tert-Butylbenzene	-1.2 3.8	-0.6	-2.0	-1.0	0.3	0.8	50 30	30	30	30	30	30
Pentachloroethane	-13.3 14.9	-1.7	-11.5	-6.9	7.6	10.9	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-9.4 5.9	1.2	-2.0	0.5	1.6	2.2	50 30	30	30	30	30	30
sec-Butylbenzene	-10.8 5.5	-0.2	1.0	0.1	1.7	2.6	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-3.6 2.7	-0.5	0.9	0.6	-0.4	0.3	50 30	30	30	30	30	30
p-Isopropyltoluene	-10.6 6.5	-0.1	-0.5	0.5	2.0	2.2	50 30	30	30	30	30	30
1,4-Dichlorobenzene	0.3 1.3	1.2	-0.1	-0.8	-1.6	-0.4	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	2.4 2.7	3.5	-5.3	-7.2	1.9	2.0	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.: 410-45147-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

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	-26.0 20.8	-15.3	-7.0	1.5	10.5	15.5	50 30	30	30	30	30	30
n-Butylbenzene	-4.0 6.2	-3.3	-2.4	-1.4	2.0	2.8	50 30	30	30	30	30	30
1,2-Dichlorobenzene	0.2 0.7	0.5	0.7	-0.8	-1.0	-0.3	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-20.8 12.5	-7.8	-3.5	3.8	3.3	12.7	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-1.5 2.4	1.8	-1.1	-0.9	-0.3	-0.4	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-2.4 1.4	0.1	-1.3	0.7	0.3	1.1	50 30	30	30	30	30	30
Hexachlorobutadiene	-12.2 5.4	2.3	1.3	-1.9	1.2	3.8	50 30	30	30	30	30	30
Naphthalene	-3.2 -0.1	-1.8	-2.8	3.1	1.4	3.4	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	3.4 -1.4	0.2	-1.1	-0.1	-0.7	-0.3	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-0.5 0.4	0.1	-0.3	0.2	-0.7	0.8	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	-0.3 -1.5	0.4	1.0	0.2	-0.9	1.0	50 30	30	30	30	30	30
Toluene-d8 (Surr)	-0.1 0.3	0.2	-0.9	0.2	0.0	0.3	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-0.3 0.4	-0.2	-1.1	-0.1	0.3	1.1	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X12.D
Lims ID: IC STD25 Lg
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 11-Mar-2021 19:26:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023820-012
Misc. Info.: IC STD25 LG
Operator ID: SRK36897 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 23-Mar-2021 16:55:31 Calib Date: 11-Mar-2021 21:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1638

First Level Reviewer: knouses Date: 12-Mar-2021 08:55:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.886	1.879	0.007	99	1652589	25.0	27.8	
3 Chloromethane	50	2.081	2.075	0.006	99	1830118	25.0	24.9	
4 Butadiene	39	2.184	2.178	0.006	93	1956045	25.0	24.2	
5 Vinyl chloride	62	2.191	2.184	0.006	98	1805860	25.0	26.9	
6 Bromomethane	94	2.495	2.495	0.000	91	1202958	25.0	24.9	
7 Chloroethane	64	2.575	2.568	0.007	100	1131496	25.0	25.7	
8 Dichlorofluoromethane	67	2.806	2.800	0.006	97	2612848	25.0	25.8	
9 Trichlorofluoromethane	101	2.867	2.861	0.006	98	2433596	25.0	26.6	
11 Ethyl ether	59	3.093	3.087	0.006	93	1279724	25.0	25.8	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.184	3.178	0.006	94	1823966	25.0	25.4	
13 Acrolein	56	3.263	3.257	0.006	99	8359764	1249.9	1372.5	
14 1,1-Dichloroethene	96	3.385	3.379	0.006	96	1298230	25.0	25.1	
15 112TCTFE	101	3.422	3.416	0.006	94	1478508	25.0	26.3	
16 Acetone	43	3.422	3.416	0.006	99	1913703	250.0	266.2	
17 Iodomethane	142	3.574	3.568	0.006	99	2541566	25.0	25.2	
18 Isopropyl alcohol	45	3.587	3.580	0.007	36	942706	500.0	552.2	
19 Ethyl bromide	108	3.599	3.593	0.006	98	1117620	25.0	25.8	
20 Carbon disulfide	76	3.672	3.660	0.012	100	4610358	25.0	26.1	
22 Methyl acetate	43	3.818	3.812	0.006	97	505443	25.0	32.1	M
23 3-Chloro-1-propene	41	3.837	3.830	0.007	90	2455479	25.0	25.7	
24 Methylene Chloride	84	4.019	4.013	0.006	94	1438992	25.0	24.8	
* 25 t-Butyl alcohol-d10 (IS)	65	4.062	4.044	0.018	0	155617	50.0	50.0	
26 2-Methyl-2-propanol	59	4.172	4.160	0.012	99	1554132	500.0	558.6	
27 Acrylonitrile	53	4.355	4.355	0.000	98	1365561	125.0	133.7	
28 Methyl tert-butyl ether	73	4.397	4.397	0.000	96	4245068	25.0	24.9	
29 trans-1,2-Dichloroethene	96	4.410	4.403	0.007	97	1488618	25.0	25.1	
30 Hexane	57	4.830	4.830	0.000	94	2492359	25.0	26.6	
32 1,1-Dichloroethane	63	5.074	5.074	0.000	96	2808790	25.0	25.0	
33 Isopropyl ether	45	5.141	5.129	0.012	93	5342831	25.0	25.3	
34 2-Chloro-1,3-butadiene	53	5.184	5.184	0.000	92	2687975	25.0	26.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Tert-butyl ethyl ether	59	5.678	5.671	0.007	98	5152143	25.0	25.1	
36 2-Butanone (MEK)	43	5.879	5.879	0.000	100	3880715	250.0	265.6	
37 cis-1,2-Dichloroethene	96	5.915	5.915	0.000	84	1673100	25.0	25.1	
38 2,2-Dichloropropane	77	5.934	5.927	0.007	90	2363941	25.0	25.9	
40 Propionitrile	54	5.982	5.982	0.000	99	2131411	500.0	553.3	
S 42 1,2-Dichloroethene, Total	100				0			50.2	
43 Methacrylonitrile	67	6.202	6.196	0.006	94	3928598	250.0	272.5	
44 Chlorobromomethane	128	6.251	6.244	0.007	97	754935	25.0	25.5	
45 Tetrahydrofuran	71	6.263	6.251	0.012	92	1148846	250.0	273.1	
46 Chloroform	83	6.409	6.409	0.000	94	2709148	25.0	25.2	
$ 47 Dibromofluoromethane (Surr)	113	6.623	6.622	0.001	51	535299	10.0	10.0	
48 1,1,1-Trichloroethane	97	6.623	6.622	0.001	99	2447521	25.0	25.9	
49 Cyclohexane	56	6.720	6.714	0.006	92	3008460	25.0	26.6	
50 Carbon tetrachloride	117	6.830	6.830	0.000	97	2132402	25.0	27.1	
51 1,1-Dichloropropene	75	6.842	6.842	0.000	96	2287812	25.0	26.1	
52 Isobutyl alcohol	41	7.019	7.019	0.000	93	1479573	1250.0	1432.0	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.086	7.080	0.006	0	108178	10.0	9.85	
54 Benzene	78	7.110	7.104	0.006	97	6465992	25.0	25.4	
55 1,2-Dichloroethane	62	7.183	7.183	0.000	98	1845635	25.0	24.3	
56 Tert-amyl methyl ether	73	7.305	7.299	0.006	98	4602714	25.0	25.1	
* 57 Fluorobenzene (IS)	96	7.519	7.512	0.007	99	2252002	10.0	10.0	
58 n-Heptane	43	7.525	7.525	0.000	92	2739891	25.0	26.6	
59 n-Butanol	56	7.909	7.915	-0.006	90	2880806	2500.0	3287.8	
60 Trichloroethene	95	8.000	7.994	0.006	98	1661655	25.0	25.8	
61 Methylcyclohexane	83	8.299	8.299	0.000	92	3060627	25.0	26.5	
62 1,2-Dichloropropane	63	8.336	8.329	0.007	95	1702805	25.0	25.9	
63 2-ethoxy-2-methyl butane	87	8.348	8.348	0.000	93	2661718	25.0	26.1	
64 Methyl methacrylate	69	8.427	8.427	0.000	92	859899	25.0	29.5	
65 1,4-Dioxane	88	8.439	8.439	0.000	30	286043	1250.0	1523.3	M
66 Dibromomethane	93	8.445	8.445	0.000	97	787764	25.0	25.7	
67 Dichlorobromomethane	83	8.689	8.689	0.000	99	2005156	25.0	26.4	
68 2-Nitropropane	41	8.970	8.970	0.000	98	2767627	250.0	290.5	
71 1-Bromo-2-chloroethane	63	9.085	9.079	0.006	99	1628300	25.0	26.0	
72 cis-1,3-Dichloropropene	75	9.250	9.244	0.006	94	2599891	25.0	26.4	
73 4-Methyl-2-pentanone (MIBK)	43	9.439	9.433	0.006	97	11662350	250.0	290.2	
$ 74 Toluene-d8 (Surr)	98	9.567	9.567	0.000	94	2214550	10.0	10.0	
75 Toluene	92	9.646	9.640	0.006	98	4165555	25.0	25.8	
76 trans-1,3-Dichloropropene	75	9.915	9.915	0.001	95	2224350	25.0	27.1	
78 Ethyl methacrylate	69	9.982	9.982	0.000	90	1887282	25.0	27.1	
S 77 1,3-Dichloropropene, Total	100				0			53.5	
79 1,1,2-Trichloroethane	97	10.128	10.122	0.006	92	1117976	25.0	24.9	
80 Tetrachloroethene	166	10.207	10.201	0.006	96	1784436	25.0	26.1	
81 1,3-Dichloropropane	76	10.293	10.292	0.001	93	2035100	25.0	25.4	
82 2-Hexanone	43	10.354	10.347	0.007	97	8482959	250.0	288.3	
83 Chlorodibromomethane	129	10.506	10.506	0.000	90	1418943	25.0	28.2	
84 Ethylene Dibromide	107	10.616	10.616	0.000	99	1125164	25.0	26.0	
* 85 Chlorobenzene-d5 (IS)	117	11.061	11.060	0.001	87	1650800	10.0	10.0	
86 1-Chlorohexane	91	11.073	11.073	0.000	98	2395674	25.0	25.8	
87 Chlorobenzene	112	11.085	11.085	0.000	96	4644976	25.0	25.6	
89 1,1,1,2-Tetrachloroethane	131	11.170	11.170	0.000	94	1635507	25.0	27.0	
90 Ethylbenzene	91	11.177	11.176	0.001	98	8252418	25.0	26.3	
S 88 Xylenes, Total	106				0			78.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
91 m-Xylene & p-Xylene	106	11.292	11.292	0.000	99	6394334	50.0	52.4	
92 o-Xylene	106	11.628	11.628	0.000	97	3174221	25.0	26.2	
93 Styrene	104	11.646	11.640	0.006	95	5385417	25.0	26.6	
94 Bromoform	173	11.798	11.798	0.000	96	840188	25.0	29.3	
95 Isopropylbenzene	105	11.933	11.932	0.000	96	8299693	25.0	26.4	
$ 98 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	88	848962	10.0	10.0	
99 1,1,2,2-Tetrachloroethane	83	12.189	12.188	0.001	95	1491735	25.0	25.7	
100 Bromobenzene	156	12.195	12.195	0.000	95	1961825	25.0	25.1	
101 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	96	4687257	250.0	275.9	
102 1,2,3-Trichloropropane	110	12.231	12.231	0.000	80	391011	25.0	24.9	
103 N-Propylbenzene	91	12.268	12.268	0.000	99	9762204	25.0	25.8	
104 2-Chlorotoluene	126	12.341	12.341	0.000	96	1977820	25.0	25.3	
105 1,3,5-Trimethylbenzene	105	12.408	12.402	0.006	94	7249442	25.0	26.2	
106 4-Chlorotoluene	126	12.439	12.438	0.000	98	2064098	25.0	25.2	
107 tert-Butylbenzene	134	12.646	12.646	0.000	93	1553945	25.0	25.9	
108 Pentachloroethane	167	12.682	12.682	0.000	93	1238770	25.0	28.7	
109 1,2,4-Trimethylbenzene	105	12.695	12.688	0.007	97	7590861	25.0	26.5	
110 sec-Butylbenzene	105	12.816	12.816	0.000	95	9364813	25.0	26.4	
111 1,3-Dichlorobenzene	146	12.914	12.914	0.000	97	3964367	25.0	25.7	
112 4-Isopropyltoluene	119	12.926	12.920	0.006	97	8213926	25.0	26.6	
* 113 1,4-Dichlorobenzene-d4	152	12.969	12.969	0.000	98	918475	10.0	10.0	
114 1,4-Dichlorobenzene	146	12.987	12.987	0.000	93	4017272	25.0	25.3	
115 1,2,3-Trimethylbenzene	120	12.999	12.999	0.000	99	3271199	25.0	25.7	
116 Benzyl chloride	126	13.066	13.066	0.000	99	654069	25.0	30.2	
119 n-Butylbenzene	92	13.219	13.219	0.000	97	4179344	25.0	26.6	
120 1,2-Dichlorobenzene	146	13.249	13.249	0.000	97	3660345	25.0	25.2	
118 p-Diethylbenzene	119	13.274	13.274	0.000	86	4135696	25.0	26.2	
123 1,2-Dibromo-3-Chloropropane	155	13.798	13.798	0.000	84	225774	25.0	28.1	
124 1,3,5-Trichlorobenzene	180	13.926	13.926	0.000	97	3241837	25.0	25.6	
125 1,2,4-Trichlorobenzene	180	14.353	14.353	0.000	94	2885935	25.0	25.4	
126 Hexachlorobutadiene	225	14.438	14.432	0.006	98	1424579	25.0	26.4	
127 Naphthalene	128	14.536	14.536	0.000	97	5125836	25.0	25.0	
128 1,2,3-Trichlorobenzene	180	14.682	14.676	0.006	95	2494082	25.0	24.7	
129 2-Methylnaphthalene	142	15.298	15.304	-0.006	92	3416406	25.0	24.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00041	Amount Added: 25.00	Units: uL	
MSV_RV4_826_00047	Amount Added: 25.00	Units: uL	
MSV_RV4GAS826_00118	Amount Added: 25.00	Units: uL	
MSV_HP25_ISSS_00023	Amount Added: 1.00	Units: uL	Run Reagent

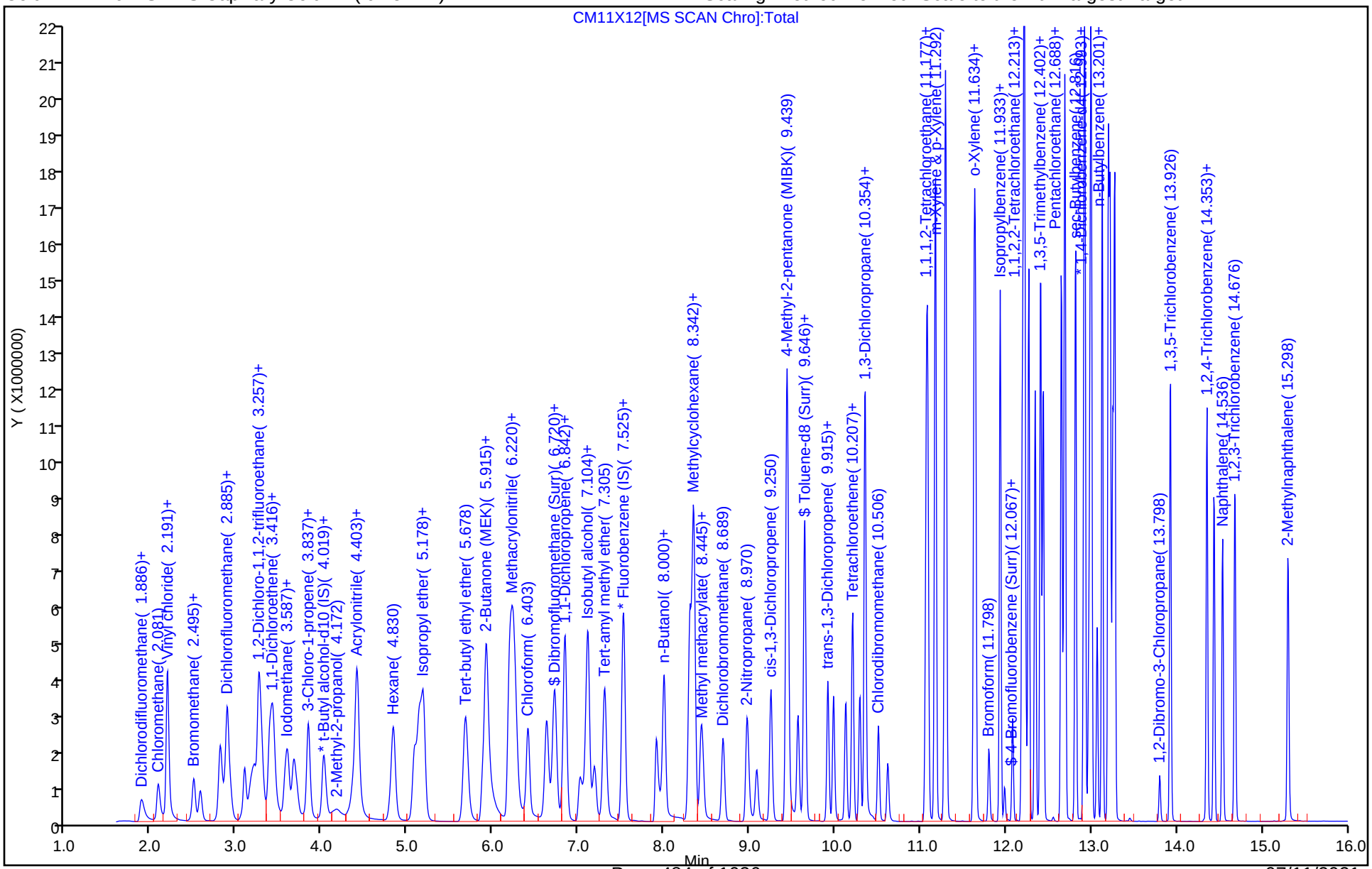
Report Date: 23-Mar-2021 16:55:33 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X12.D

Injection Date:	11-Mar-2021 19:26:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	IC STD25 Lg			Worklist Smp#:	12
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

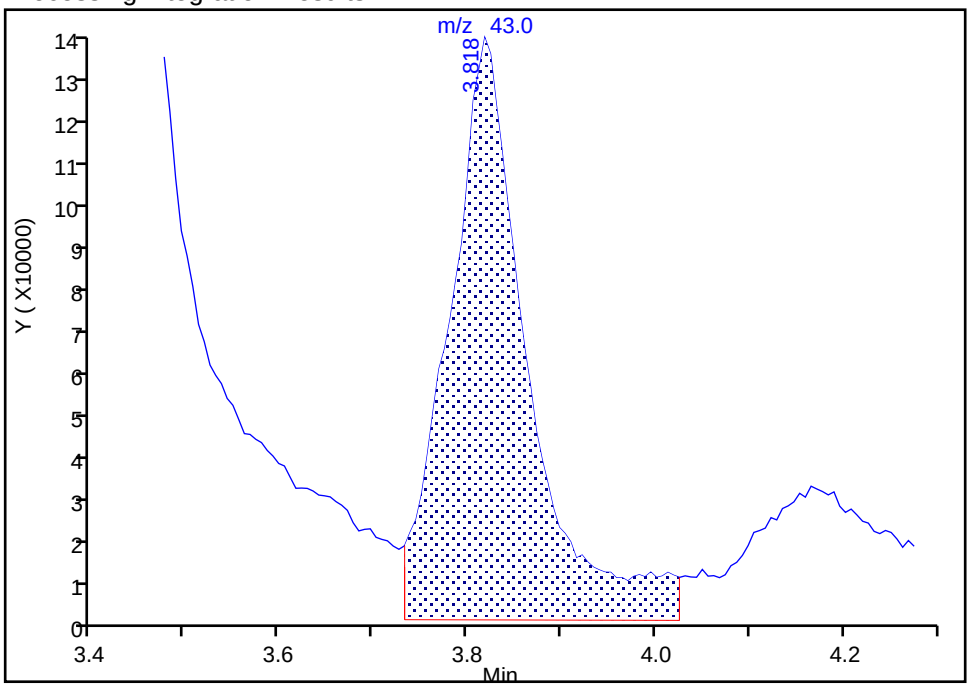
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X12.D				
Injection Date:	11-Mar-2021 19:26:30	Instrument ID:	10193		
Lims ID:	IC STD25 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

22 Methyl acetate, CAS: 79-20-9

Signal: 1

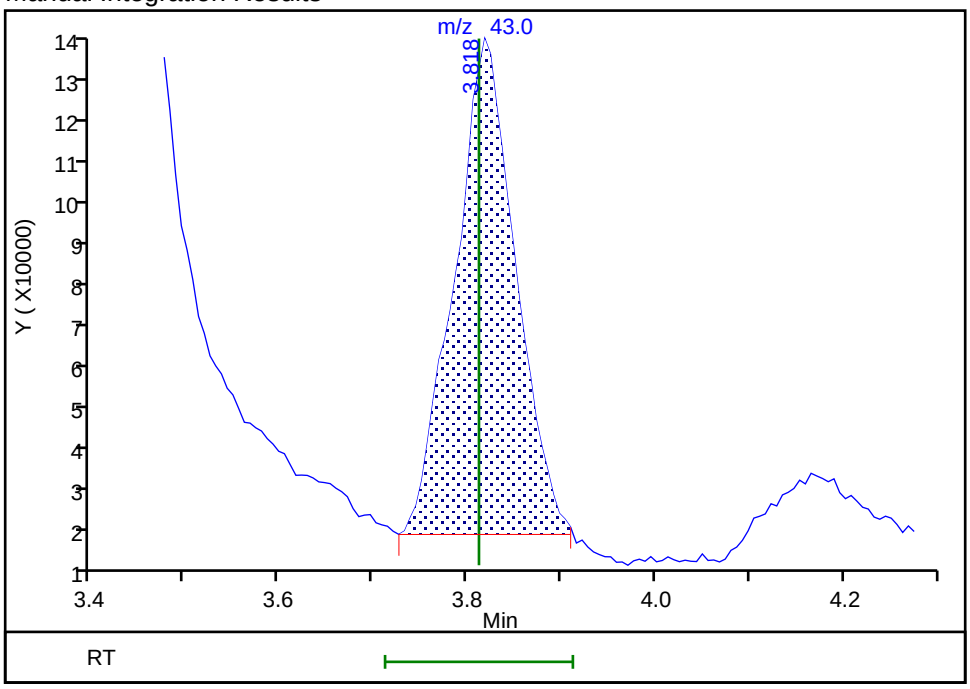
Processing Integration Results

RT: 3.82
Area: 748573
Amount: 27.333555
Amount Units: ug/l



Manual Integration Results

RT: 3.82
Area: 505443
Amount: 32.068131
Amount Units: ug/l



Reviewer: knouses, 23-Mar-2021 12:19:36
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

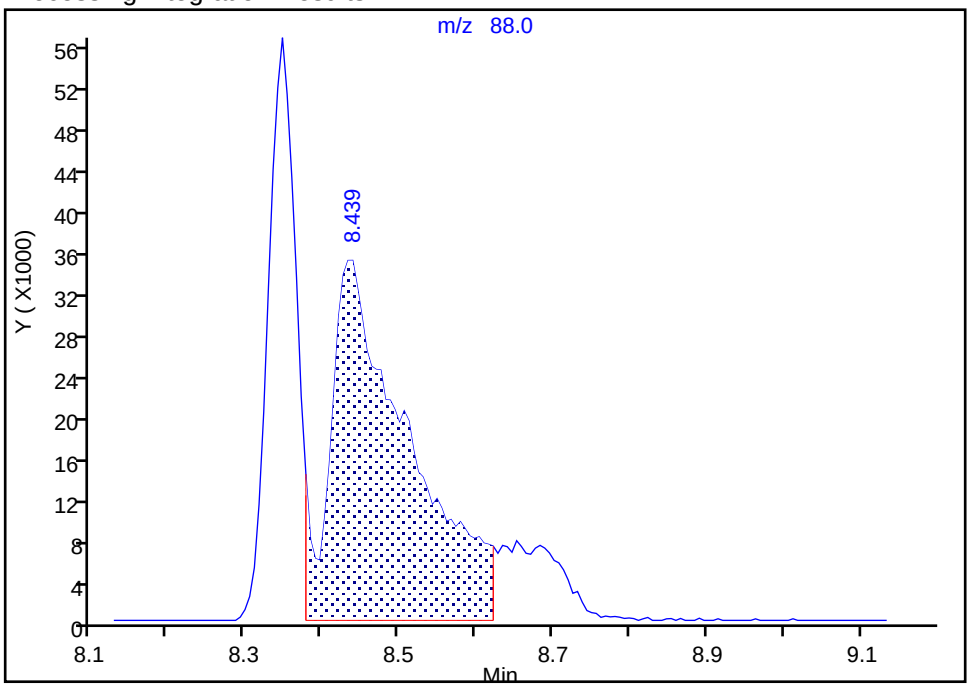
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X12.D				
Injection Date:	11-Mar-2021 19:26:30	Instrument ID:	10193		
Lims ID:	IC STD25 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

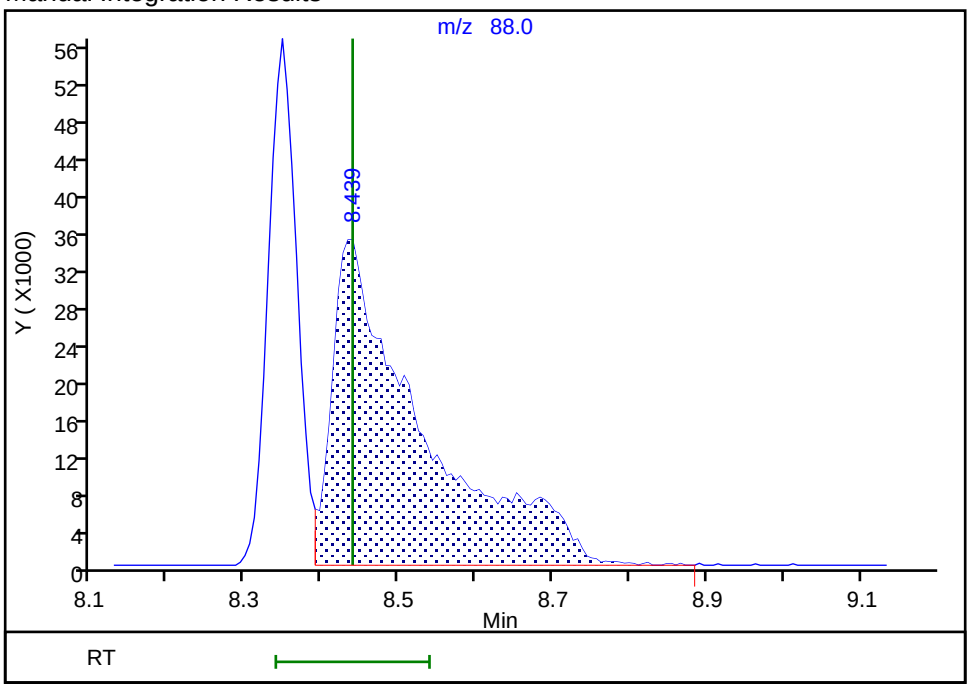
Processing Integration Results

RT: 8.44
Area: 251267
Amount: 1401.3815
Amount Units: ug/l



Manual Integration Results

RT: 8.44
Area: 286043
Amount: 1523.3380
Amount Units: ug/l



Reviewer: knouses, 23-Mar-2021 12:07:35
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X13.D
Lims ID: ICIS STD10 Lg
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 11-Mar-2021 19:49:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023820-013
Misc. Info.: IC STD5 LG
Operator ID: SRK36897 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 23-Mar-2021 16:55:45 Calib Date: 11-Mar-2021 21:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1638

First Level Reviewer: knouses Date: 12-Mar-2021 09:08:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.879	1.879	0.000	99	638910	10.0	10.9	
3 Chloromethane	50	2.075	2.075	0.000	99	745676	10.0	10.3	
4 Butadiene	39	2.178	2.178	0.000	92	773897	10.0	9.69	
5 Vinyl chloride	62	2.184	2.184	0.000	98	721419	10.0	10.9	
6 Bromomethane	94	2.495	2.495	0.000	91	484085	10.0	10.1	
7 Chloroethane	64	2.568	2.568	0.000	100	448998	10.0	10.3	
8 Dichlorofluoromethane	67	2.800	2.800	0.000	97	1040739	10.0	10.4	
9 Trichlorofluoromethane	101	2.861	2.861	0.000	99	974568	10.0	10.8	
11 Ethyl ether	59	3.087	3.087	0.000	93	516266	10.0	10.5	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.178	3.178	0.000	94	703428	10.0	9.91	
13 Acrolein	56	3.257	3.257	0.000	100	2949165	500.0	385.7	
14 1,1-Dichloroethene	96	3.379	3.379	0.000	96	507852	10.0	9.93	
15 112TCTFE	101	3.416	3.416	0.000	93	576399	10.0	10.4	
16 Acetone	43	3.416	3.416	0.000	64	831213	100.0	92.1	M
17 Iodomethane	142	3.568	3.568	0.000	98	1002107	10.0	10.0	
18 Isopropyl alcohol	45	3.580	3.580	0.000	38	422637	200.0	197.2	
19 Ethyl bromide	108	3.593	3.593	0.000	98	445062	10.0	10.4	
20 Carbon disulfide	76	3.660	3.660	0.000	100	1813268	10.0	10.4	
22 Methyl acetate	43	3.812	3.812	0.000	97	214332	10.0	10.8	M
23 3-Chloro-1-propene	41	3.830	3.830	0.000	91	975407	10.0	10.3	
24 Methylene Chloride	84	4.013	4.013	0.000	94	572783	10.0	9.98	
* 25 t-Butyl alcohol-d10 (IS)	65	4.050	4.050	0.000	0	195338	50.0	50.0	
26 2-Methyl-2-propanol	59	4.160	4.160	0.000	100	626623	200.0	179.4	
27 Acrylonitrile	53	4.355	4.355	0.000	98	621154	50.0	48.5	
28 Methyl tert-butyl ether	73	4.397	4.397	0.000	96	1710267	10.0	10.1	
29 trans-1,2-Dichloroethene	96	4.403	4.403	0.000	97	582033	10.0	9.92	
30 Hexane	57	4.830	4.830	0.000	94	970731	10.0	10.5	
32 1,1-Dichloroethane	63	5.074	5.074	0.000	96	1125021	10.0	10.1	
33 Isopropyl ether	45	5.129	5.129	0.000	94	2110173	10.0	10.1	
34 2-Chloro-1,3-butadiene	53	5.184	5.184	0.000	92	1035042	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
35 Tert-butyl ethyl ether	59	5.671	5.671	0.000	98	2049982	10.0	10.1	
36 2-Butanone (MEK)	43	5.879	5.879	0.000	100	1736002	100.0	94.7	
37 cis-1,2-Dichloroethene	96	5.915	5.915	0.000	84	657423	10.0	9.96	
38 2,2-Dichloropropane	77	5.927	5.927	0.000	89	918101	10.0	10.2	
40 Propionitrile	54	5.982	5.982	0.000	99	973196	200.0	201.3	
43 Methacrylonitrile	67	6.196	6.196	0.000	93	1692968	100.0	93.6	
44 Chlorobromomethane	128	6.244	6.244	0.000	96	301517	10.0	10.3	
45 Tetrahydrofuran	71	6.251	6.251	0.000	80	505929	100.0	95.8	
46 Chloroform	83	6.409	6.409	0.000	94	1062972	10.0	10.0	
$ 47 Dibromofluoromethane (Surr)	113	6.622	6.622	0.000	94	531772	10.0	10.1	
48 1,1,1-Trichloroethane	97	6.622	6.622	0.000	99	946677	10.0	10.1	
49 Cyclohexane	56	6.714	6.714	0.000	92	1159833	10.0	10.4	
50 Carbon tetrachloride	117	6.830	6.830	0.000	97	815634	10.0	10.5	
51 1,1-Dichloropropene	75	6.842	6.842	0.000	96	883868	10.0	10.2	
52 Isobutyl alcohol	41	7.019	7.019	0.000	95	642545	500.0	495.4	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.080	7.080	0.000	0	109786	10.0	10.1	
54 Benzene	78	7.104	7.104	0.000	97	2522805	10.0	10.0	
55 1,2-Dichloroethane	62	7.183	7.183	0.000	98	736795	10.0	9.83	
56 Tert-amyl methyl ether	73	7.299	7.299	0.000	98	1845644	10.0	10.2	
* 57 Fluorobenzene (IS)	96	7.519	7.519	0.000	99	2227977	10.0	10.0	
58 n-Heptane	43	7.525	7.525	0.000	95	1077491	10.0	10.6	
59 n-Butanol	56	7.915	7.915	0.000	89	1174357	1000.0	1067.7	
60 Trichloroethene	95	7.994	7.994	0.000	98	642792	10.0	10.1	
61 Methylcyclohexane	83	8.299	8.299	0.000	92	1213428	10.0	10.6	
62 1,2-Dichloropropane	63	8.329	8.329	0.000	94	658625	10.0	10.1	
63 2-ethoxy-2-methyl butane	87	8.348	8.348	0.000	92	1038832	10.0	10.3	
64 Methyl methacrylate	69	8.427	8.427	0.000	92	337909	10.0	9.23	
65 1,4-Dioxane	88	8.439	8.439	0.000	33	95813	500.0	406.5	
66 Dibromomethane	93	8.445	8.445	0.000	97	312160	10.0	10.3	
67 Dichlorobromomethane	83	8.689	8.689	0.000	99	778515	10.0	10.3	
68 2-Nitropropane	41	8.970	8.970	0.000	98	1144511	100.0	95.7	
71 1-Bromo-2-chloroethane	63	9.079	9.079	0.000	99	656800	10.0	10.6	
72 cis-1,3-Dichloropropene	75	9.244	9.244	0.000	96	1009092	10.0	10.4	
73 4-Methyl-2-pentanone (MIBK)	43	9.433	9.433	0.000	97	4771407	100.0	94.6	
$ 74 Toluene-d8 (Surr)	98	9.567	9.567	0.000	94	2198871	10.0	10.0	
75 Toluene	92	9.640	9.640	0.000	98	1605937	10.0	10.0	
76 trans-1,3-Dichloropropene	75	9.915	9.915	0.000	95	853284	10.0	10.5	
78 Ethyl methacrylate	69	9.982	9.982	0.000	90	742086	10.0	10.7	
79 1,1,2-Trichloroethane	97	10.122	10.122	0.000	92	441913	10.0	9.94	
80 Tetrachloroethene	166	10.201	10.201	0.000	96	683362	10.0	10.1	
81 1,3-Dichloropropane	76	10.292	10.292	0.000	93	809652	10.0	10.2	
82 2-Hexanone	43	10.347	10.347	0.000	97	3454536	100.0	93.5	
83 Chlorodibromomethane	129	10.506	10.506	0.000	90	545778	10.0	10.9	
84 Ethylene Dibromide	107	10.616	10.616	0.000	99	441336	10.0	10.3	
* 85 Chlorobenzene-d5 (IS)	117	11.061	11.061	0.000	87	1638044	10.0	10.0	
86 1-Chlorohexane	91	11.073	11.073	0.000	97	912423	10.0	9.90	
87 Chlorobenzene	112	11.085	11.085	0.000	95	1801305	10.0	9.99	
89 1,1,1,2-Tetrachloroethane	131	11.170	11.170	0.000	96	626288	10.0	10.4	
90 Ethylbenzene	91	11.176	11.176	0.000	99	3164725	10.0	10.1	
91 m-Xylene & p-Xylene	106	11.292	11.292	0.000	99	2463343	20.0	20.4	
92 o-Xylene	106	11.628	11.628	0.000	96	1213911	10.0	10.1	
93 Styrene	104	11.640	11.640	0.000	95	2073083	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
94 Bromoform	173	11.798	11.798	0.000	96	317762	10.0	11.2	
95 Isopropylbenzene	105	11.932	11.932	0.000	96	3188415	10.0	10.2	
$ 98 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	89	848690	10.0	10.1	
99 1,1,2,2-Tetrachloroethane	83	12.188	12.188	0.000	93	592875	10.0	10.3	
100 Bromobenzene	156	12.195	12.195	0.000	95	766044	10.0	9.88	
101 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	96	1817706	100.0	107.9	
102 1,2,3-Trichloropropane	110	12.231	12.231	0.000	81	159063	10.0	10.2	
103 N-Propylbenzene	91	12.268	12.268	0.000	99	3763997	10.0	10.0	
104 2-Chlorotoluene	126	12.341	12.341	0.000	96	772351	10.0	9.95	
105 1,3,5-Trimethylbenzene	105	12.402	12.402	0.000	94	2778516	10.0	10.1	
106 4-Chlorotoluene	126	12.438	12.438	0.000	98	800200	10.0	9.85	
107 tert-Butylbenzene	134	12.646	12.646	0.000	93	599057	10.0	10.1	
108 Pentachloroethane	167	12.682	12.682	0.000	90	474580	10.0	11.1	
109 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	97	2904330	10.0	10.2	
110 sec-Butylbenzene	105	12.816	12.816	0.000	94	3614098	10.0	10.3	
111 1,3-Dichlorobenzene	146	12.914	12.914	0.000	98	1535756	10.0	10.0	
112 4-Isopropyltoluene	119	12.920	12.920	0.000	97	3128497	10.0	10.2	
* 113 1,4-Dichlorobenzene-d4	152	12.969	12.969	0.000	95	910957	10.0	10.0	
114 1,4-Dichlorobenzene	146	12.987	12.987	0.000	94	1567051	10.0	9.96	
115 1,2,3-Trimethylbenzene	120	12.999	12.999	0.000	99	1289256	10.0	10.2	
116 Benzyl chloride	126	13.066	13.066	0.000	99	247999	10.0	11.5	
119 n-Butylbenzene	92	13.219	13.219	0.000	97	1605529	10.0	10.3	
120 1,2-Dichlorobenzene	146	13.249	13.249	0.000	97	1437655	10.0	9.97	
118 p-Diethylbenzene	119	13.274	13.274	0.000	86	1608512	10.0	10.3	
123 1,2-Dibromo-3-Chloropropane	155	13.798	13.798	0.000	92	89706	10.0	11.3	
124 1,3,5-Trichlorobenzene	180	13.926	13.926	0.000	97	1251301	10.0	9.96	
125 1,2,4-Trichlorobenzene	180	14.353	14.353	0.000	94	1141116	10.0	10.1	
126 Hexachlorobutadiene	225	14.432	14.432	0.000	98	556571	10.0	10.4	
127 Naphthalene	128	14.536	14.536	0.000	97	2104181	10.0	10.3	
128 1,2,3-Trichlorobenzene	180	14.676	14.676	0.000	95	1000463	10.0	9.97	
129 2-Methylnaphthalene	142	15.304	15.304	0.000	92	1494646	10.0	10.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00041	Amount Added: 10.00	Units: uL	
MSV_RV4_826_00047	Amount Added: 10.00	Units: uL	
MSV_RV4GAS826_00118	Amount Added: 10.00	Units: uL	
MSV_HP25_ISSS_00023	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 23-Mar-2021 16:55:47 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X13.D

Injection Date: 11-Mar-2021 19:49:30 Instrument ID: 10193 Operator ID: SRK36897

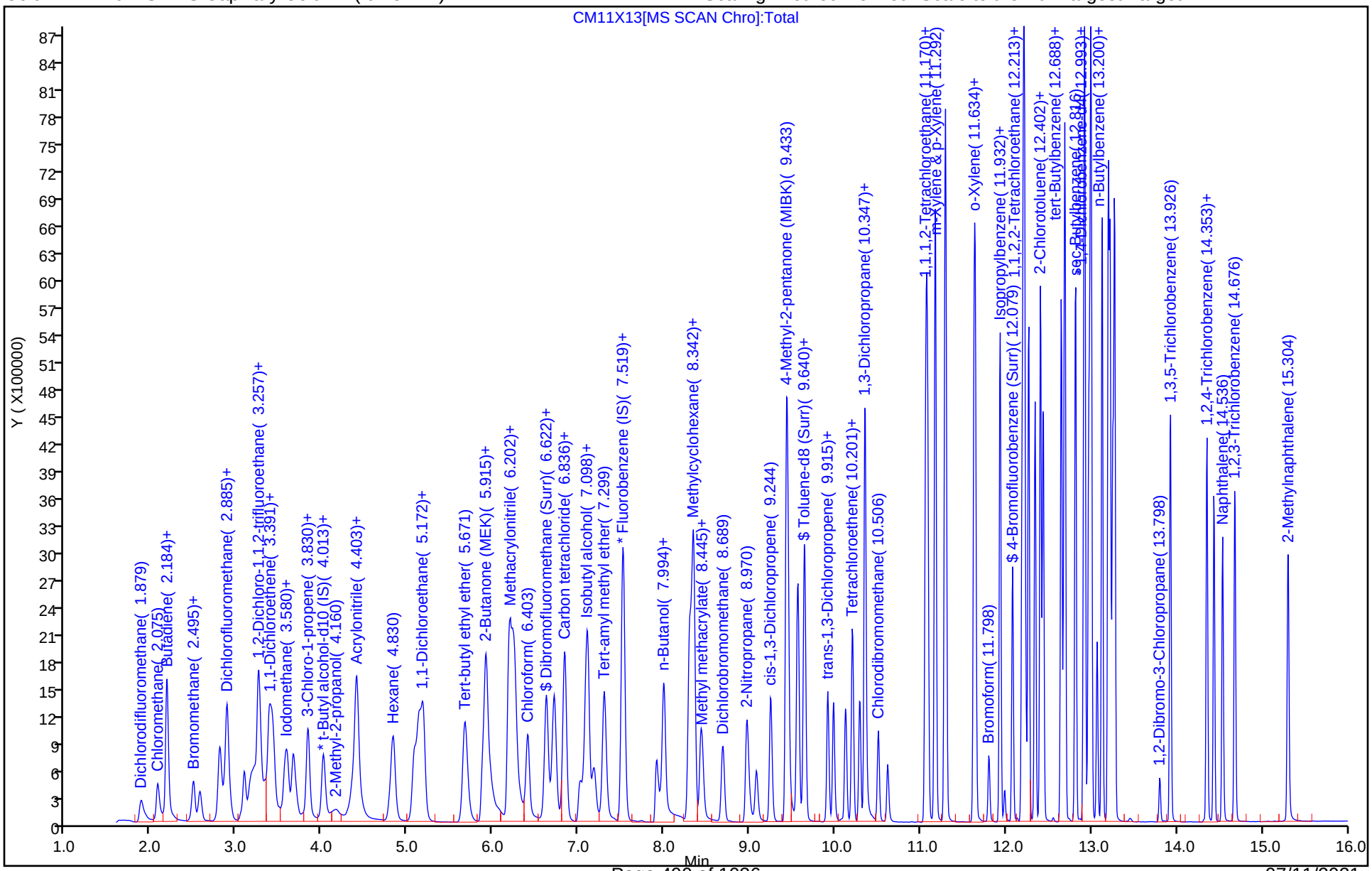
Lims ID: ICIS STD10 Lg Worklist Smp#: 13

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 13

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

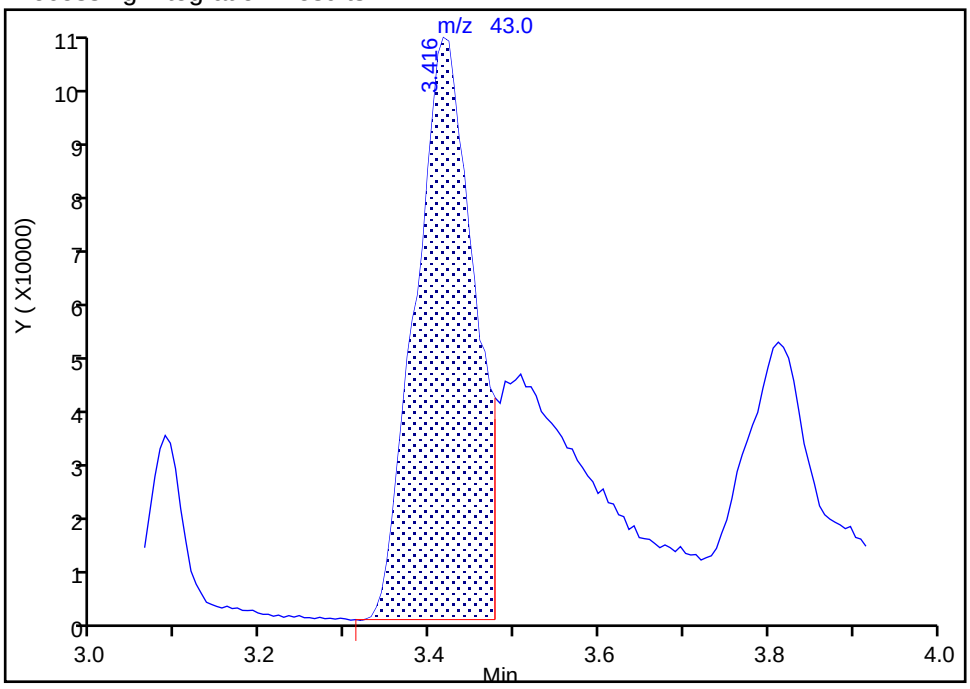
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X13.D
Injection Date: 11-Mar-2021 19:49:30 Instrument ID: 10193
Lims ID: ICIS STD10 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

16 Acetone, CAS: 67-64-1

Signal: 1

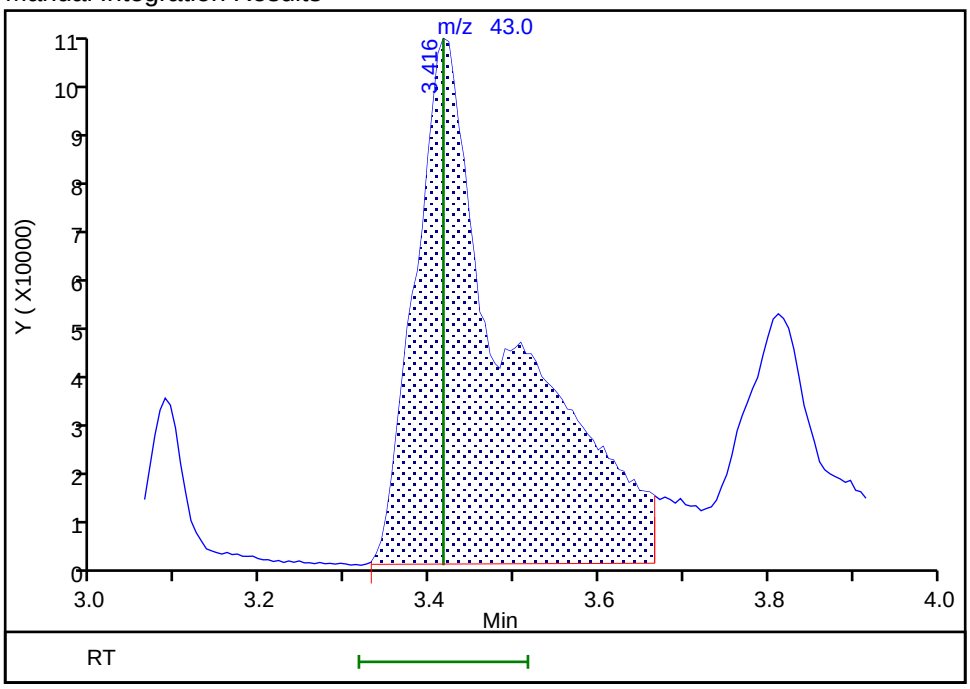
Processing Integration Results

RT: 3.42
Area: 506420
Amount: 59.167734
Amount Units: ug/l



Manual Integration Results

RT: 3.42
Area: 831213
Amount: 92.121100
Amount Units: ug/l



Reviewer: spositok, 23-Mar-2021 16:34:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

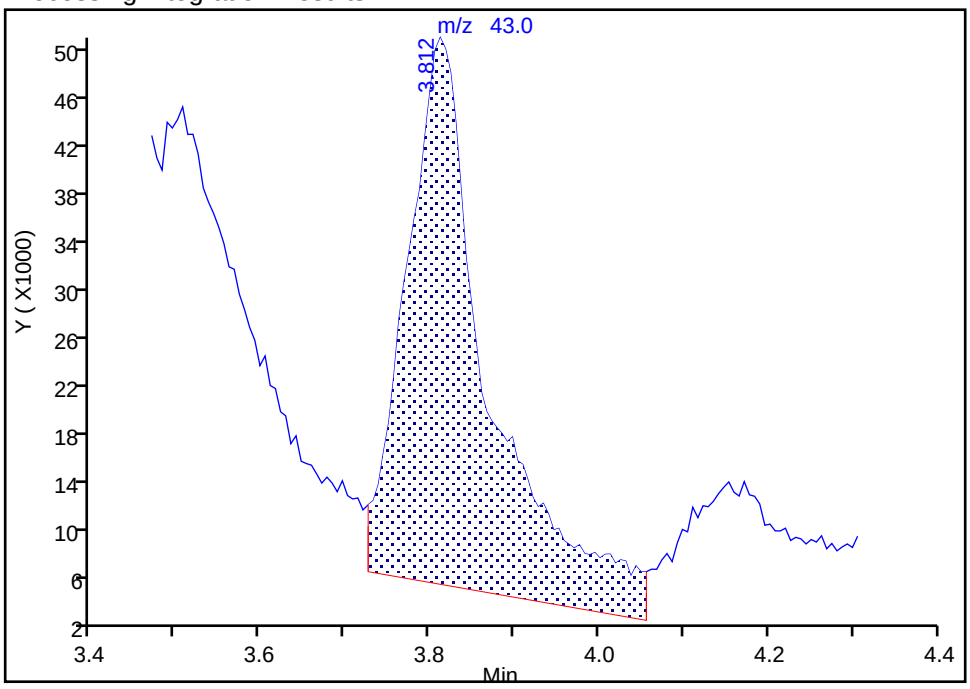
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X13.D				
Injection Date:	11-Mar-2021 19:49:30	Instrument ID:	10193		
Lims ID:	ICIS STD10 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

22 Methyl acetate, CAS: 79-20-9

Signal: 1

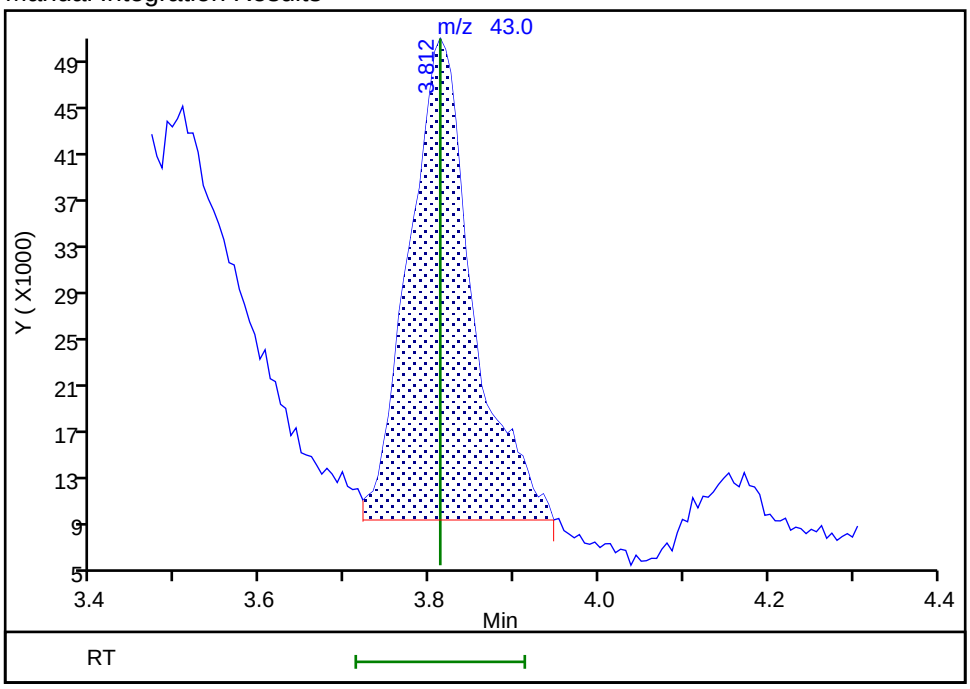
Processing Integration Results

RT: 3.81
Area: 309844
Amount: 10.928972
Amount Units: ug/l



Manual Integration Results

RT: 3.81
Area: 214332
Amount: 10.833250
Amount Units: ug/l



Reviewer: spositok, 23-Mar-2021 16:37:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X14.D
Lims ID: IC STD5 Lg
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 11-Mar-2021 20:11:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023820-014
Misc. Info.: IC STD5 LG
Operator ID: SRK36897 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 23-Mar-2021 16:55:58 Calib Date: 11-Mar-2021 21:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1638

First Level Reviewer: knouses Date: 12-Mar-2021 09:14:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.879	1.879	0.000	99	294102	5.00	5.00	
3 Chloromethane	50	2.068	2.075	-0.007	99	357138	5.00	4.92	
4 Butadiene	39	2.178	2.178	0.000	93	390039	5.00	4.89	
5 Vinyl chloride	62	2.184	2.184	0.000	98	337747	5.00	5.09	
6 Bromomethane	94	2.489	2.495	-0.006	91	235118	5.00	4.93	
7 Chloroethane	64	2.562	2.568	-0.006	100	221465	5.00	5.09	
8 Dichlorofluoromethane	67	2.800	2.800	0.000	97	508015	5.00	5.07	
9 Trichlorofluoromethane	101	2.861	2.861	0.000	98	452638	5.00	5.00	
11 Ethyl ether	59	3.086	3.087	-0.001	93	248665	5.00	5.06	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.172	3.178	-0.006	94	353727	5.00	4.99	
13 Acrolein	56	3.251	3.257	-0.006	99	1720138	250.0	256.3	
14 1,1-Dichloroethene	96	3.379	3.379	0.000	96	251228	5.00	4.92	
15 112TCTFE	101	3.416	3.416	0.000	92	286674	5.00	5.16	
16 Acetone	43	3.416	3.416	0.000	60	404761	50.0	51.1	M
17 Iodomethane	142	3.562	3.568	-0.006	99	494002	5.00	4.95	
18 Isopropyl alcohol	45	3.586	3.580	0.006	29	183530	100.0	97.6	M
19 Ethyl bromide	108	3.586	3.593	-0.007	99	220183	5.00	5.14	
20 Carbon disulfide	76	3.660	3.660	0.000	100	878787	5.00	5.04	
22 Methyl acetate	43	3.812	3.812	0.000	20	94849	5.00	5.46	M
23 3-Chloro-1-propene	41	3.830	3.830	0.000	90	482293	5.00	5.11	
24 Methylene Chloride	84	4.007	4.013	-0.006	94	282773	5.00	4.93	
* 25 t-Butyl alcohol-d10 (IS)	65	4.025	4.050	-0.025	0	171477	50.0	50.0	
26 2-Methyl-2-propanol	59	4.141	4.160	-0.019	99	271870	100.0	88.7	M
27 Acrylonitrile	53	4.348	4.355	-0.007	99	293755	25.0	26.1	
28 Methyl tert-butyl ether	73	4.391	4.397	-0.006	96	831909	5.00	4.94	
29 trans-1,2-Dichloroethene	96	4.403	4.403	0.000	97	284572	5.00	4.86	
30 Hexane	57	4.824	4.830	-0.006	93	473040	5.00	5.11	
32 1,1-Dichloroethane	63	5.068	5.074	-0.006	96	552735	5.00	4.98	
33 Isopropyl ether	45	5.129	5.129	0.000	93	1036220	5.00	4.96	
34 2-Chloro-1,3-butadiene	53	5.178	5.184	-0.006	92	507130	5.00	5.04	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Tert-butyl ethyl ether	59	5.665	5.671	-0.006	98	1009285	5.00	4.97	
36 2-Butanone (MEK)	43	5.879	5.879	0.000	100	813308	50.0	50.5	
37 cis-1,2-Dichloroethene	96	5.915	5.915	0.000	84	320444	5.00	4.86	
38 2,2-Dichloropropane	77	5.921	5.927	-0.006	90	447147	5.00	4.96	
40 Propionitrile	54	5.982	5.982	0.000	99	451607	100.0	106.4	
S 42 1,2-Dichloroethene, Total	100				0			9.72	
43 Methacrylonitrile	67	6.190	6.196	-0.006	93	802091	50.0	50.5	
44 Chlorobromomethane	128	6.244	6.244	0.000	85	147269	5.00	5.03	
45 Tetrahydrofuran	71	6.244	6.251	-0.007	79	236023	50.0	50.9	
46 Chloroform	83	6.403	6.409	-0.006	94	518824	5.00	4.89	
$ 47 Dibromofluoromethane (Surr)	113	6.622	6.622	0.000	93	523395	10.0	9.93	
48 1,1,1-Trichloroethane	97	6.622	6.622	0.000	98	464120	5.00	4.97	
49 Cyclohexane	56	6.714	6.714	0.000	92	564209	5.00	5.06	
50 Carbon tetrachloride	117	6.830	6.830	0.000	96	396536	5.00	5.09	
51 1,1-Dichloropropene	75	6.836	6.842	-0.006	96	431370	5.00	4.97	
52 Isobutyl alcohol	41	7.019	7.019	0.000	94	276854	250.0	243.2	M
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.073	7.080	-0.007	0	107522	10.0	9.91	
54 Benzene	78	7.098	7.104	-0.006	97	1248937	5.00	4.97	
55 1,2-Dichloroethane	62	7.177	7.183	-0.006	97	366485	5.00	4.89	M
56 Tert-amyl methyl ether	73	7.299	7.299	0.000	98	912145	5.00	5.04	
* 57 Fluorobenzene (IS)	96	7.512	7.519	-0.007	99	2225895	10.0	10.0	
58 n-Heptane	43	7.525	7.525	0.000	95	502833	5.00	4.94	M
59 n-Butanol	56	7.921	7.915	0.006	90	471831	500.0	488.7	
60 Trichloroethene	95	7.994	7.994	0.000	98	315510	5.00	4.95	
61 Methylcyclohexane	83	8.299	8.299	0.000	94	587148	5.00	5.15	
62 1,2-Dichloropropane	63	8.335	8.329	0.006	95	322727	5.00	4.97	
63 2-ethoxy-2-methyl butane	87	8.348	8.348	0.000	92	506402	5.00	5.02	
64 Methyl methacrylate	69	8.433	8.427	0.006	91	161291	5.00	5.02	
65 1,4-Dioxane	88	8.451	8.439	0.012	33	44758	250.0	216.3	M
66 Dibromomethane	93	8.445	8.445	0.000	96	152781	5.00	5.04	
67 Dichlorobromomethane	83	8.683	8.689	-0.006	99	376731	5.00	5.01	
68 2-Nitropropane	41	8.969	8.970	-0.001	99	538810	50.0	51.3	
71 1-Bromo-2-chloroethane	63	9.079	9.079	0.000	99	319358	5.00	5.17	
72 cis-1,3-Dichloropropene	75	9.250	9.244	0.006	94	489649	5.00	5.04	
73 4-Methyl-2-pentanone (MIBK)	43	9.439	9.433	0.006	97	2292161	50.0	51.8	
$ 74 Toluene-d8 (Surr)	98	9.561	9.567	-0.006	94	2192656	10.0	10.0	
75 Toluene	92	9.640	9.640	0.000	98	789331	5.00	4.93	
76 trans-1,3-Dichloropropene	75	9.914	9.915	0.000	95	416755	5.00	5.11	
78 Ethyl methacrylate	69	9.981	9.982	-0.001	90	355177	5.00	5.13	
S 77 1,3-Dichloropropene, Total	100				0			10.1	
79 1,1,2-Trichloroethane	97	10.122	10.122	0.000	91	217256	5.00	4.88	
80 Tetrachloroethene	166	10.207	10.201	0.006	96	341079	5.00	5.03	
81 1,3-Dichloropropane	76	10.286	10.292	-0.006	93	398453	5.00	5.01	
82 2-Hexanone	43	10.353	10.347	0.006	97	1659867	50.0	51.2	
83 Chlorodibromomethane	129	10.506	10.506	0.000	90	261477	5.00	5.22	
84 Ethylene Dibromide	107	10.615	10.616	-0.001	98	218598	5.00	5.09	
* 85 Chlorobenzene-d5 (IS)	117	11.061	11.061	0.000	87	1639832	10.0	10.0	
86 1-Chlorohexane	91	11.073	11.073	0.000	98	448580	5.00	4.86	
87 Chlorobenzene	112	11.085	11.085	0.000	95	886357	5.00	4.91	
89 1,1,1,2-Tetrachloroethane	131	11.170	11.170	0.000	95	304715	5.00	5.06	
90 Ethylbenzene	91	11.176	11.176	0.000	98	1549862	5.00	4.96	
S 88 Xylenes, Total	106				0			15.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
91 m-Xylene & p-Xylene	106	11.292	11.292	0.000	99	1212550	10.0	10.0	
92 o-Xylene	106	11.627	11.628	-0.001	96	602252	5.00	5.00	
93 Styrene	104	11.646	11.640	0.006	95	1009923	5.00	5.02	
94 Bromoform	173	11.804	11.798	0.006	96	148820	5.00	5.23	
95 Isopropylbenzene	105	11.932	11.932	0.000	96	1579935	5.00	5.05	
$ 98 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	88	842387	10.0	10.0	
99 1,1,2,2-Tetrachloroethane	83	12.188	12.188	0.000	93	286030	5.00	5.06	
100 Bromobenzene	156	12.194	12.195	-0.001	96	376924	5.00	4.95	
101 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	96	854847	50.0	51.7	
102 1,2,3-Trichloropropane	110	12.231	12.231	0.000	81	76620	5.00	5.01	
103 N-Propylbenzene	91	12.268	12.268	0.000	99	1867683	5.00	5.07	
104 2-Chlorotoluene	126	12.341	12.341	0.000	96	377056	5.00	4.94	
105 1,3,5-Trimethylbenzene	105	12.408	12.402	0.006	94	1361103	5.00	5.04	
106 4-Chlorotoluene	126	12.438	12.438	0.000	98	395625	5.00	4.96	
107 tert-Butylbenzene	134	12.646	12.646	0.000	94	292682	5.00	5.02	
108 Pentachloroethane	167	12.682	12.682	0.000	91	226171	5.00	5.38	
109 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	97	1418798	5.00	5.08	
110 sec-Butylbenzene	105	12.816	12.816	0.000	94	1759985	5.00	5.09	
111 1,3-Dichlorobenzene	146	12.914	12.914	0.000	98	749097	5.00	4.98	
112 4-Isopropyltoluene	119	12.926	12.920	0.006	97	1532453	5.00	5.10	
* 113 1,4-Dichlorobenzene-d4	152	12.969	12.969	0.000	96	894811	10.0	10.0	
114 1,4-Dichlorobenzene	146	12.987	12.987	0.000	94	760244	5.00	4.92	
115 1,2,3-Trimethylbenzene	120	12.999	12.999	0.000	99	632118	5.00	5.09	
116 Benzyl chloride	126	13.066	13.066	0.000	99	116529	5.00	5.52	
119 n-Butylbenzene	92	13.219	13.219	0.000	97	782387	5.00	5.10	
120 1,2-Dichlorobenzene	146	13.249	13.249	0.000	97	701278	5.00	4.95	
118 p-Diethylbenzene	119	13.274	13.274	0.000	87	788150	5.00	5.13	
123 1,2-Dibromo-3-Chloropropane	155	13.804	13.798	0.006	83	40377	5.00	5.16	
124 1,3,5-Trichlorobenzene	180	13.926	13.926	0.000	97	615322	5.00	4.99	
125 1,2,4-Trichlorobenzene	180	14.353	14.353	0.000	94	555942	5.00	5.01	
126 Hexachlorobutadiene	225	14.438	14.432	0.006	98	266521	5.00	5.06	
127 Naphthalene	128	14.535	14.536	-0.001	97	1013305	5.00	5.07	
128 1,2,3-Trichlorobenzene	180	14.682	14.676	0.006	95	488994	5.00	4.96	
129 2-Methylnaphthalene	142	15.304	15.304	0.000	92	718911	5.00	5.20	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00041	Amount Added:	5.00	Units: uL	
MSV_RV4_826_00047	Amount Added:	5.00	Units: uL	
MSV_RV4GAS826_00118	Amount Added:	5.00	Units: uL	
MSV_HP25_ISSS_00023	Amount Added:	1.00	Units: uL	Run Reagent

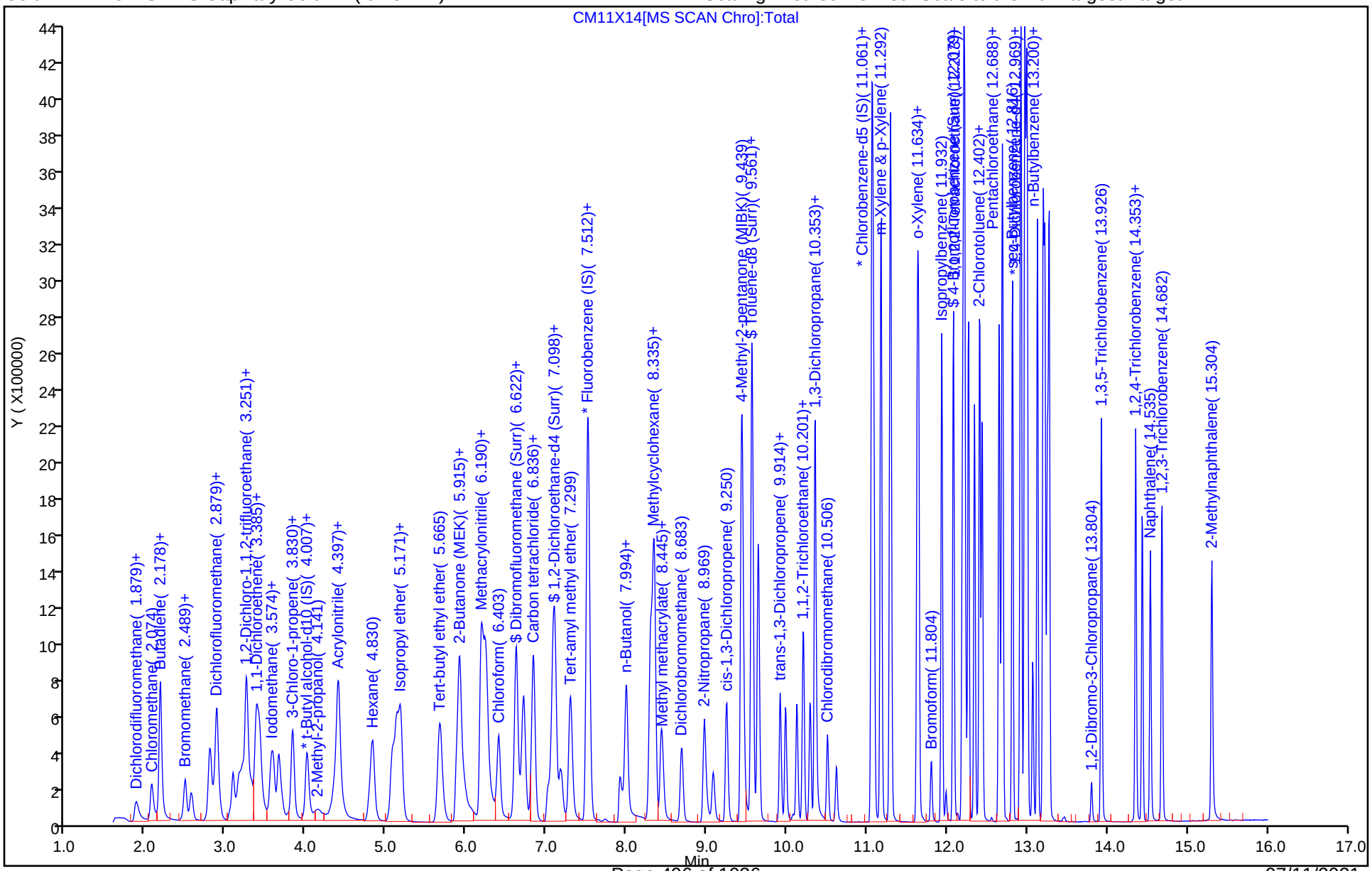
Report Date: 23-Mar-2021 16:56:00 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X14.D

Injection Date:	11-Mar-2021 20:11:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	IC STD5 Lg			Worklist Smp#:	14
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

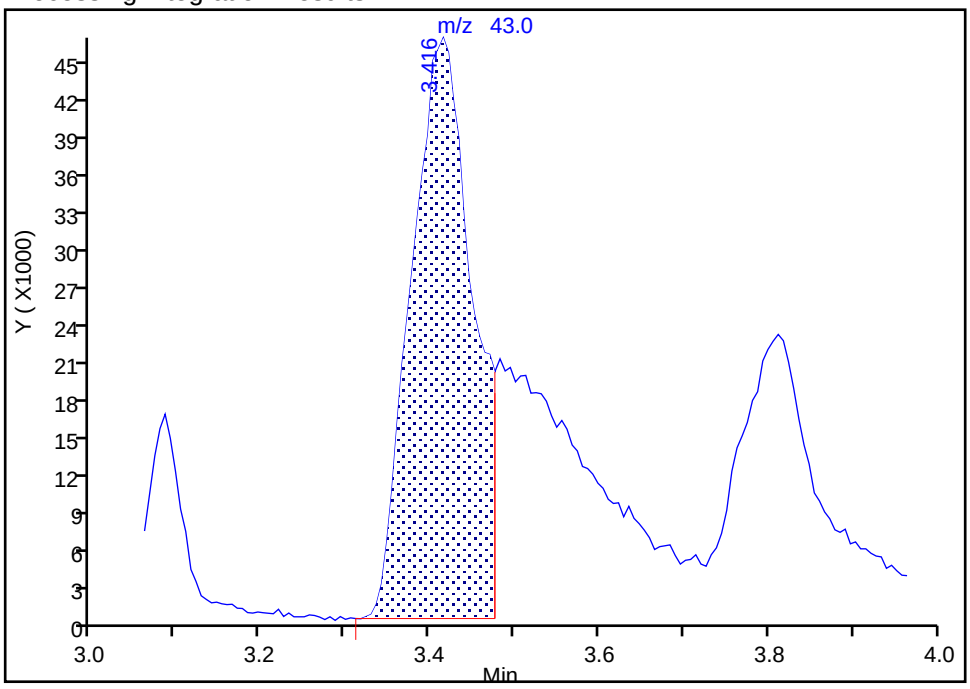
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X14.D
Injection Date: 11-Mar-2021 20:11:30 Instrument ID: 10193
Lims ID: IC STD5 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

16 Acetone, CAS: 67-64-1

Signal: 1

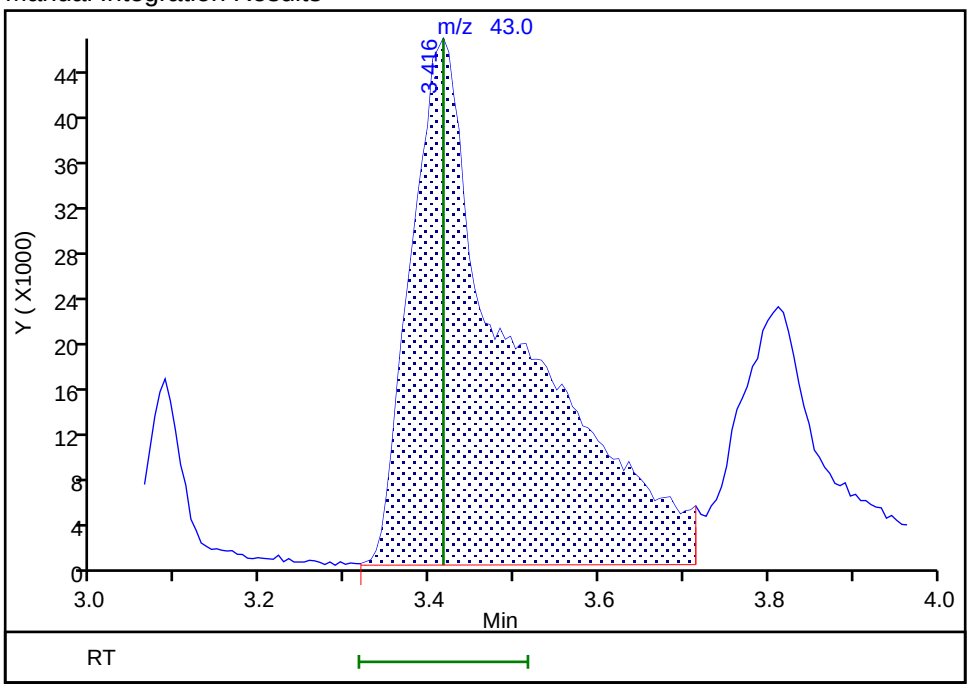
Processing Integration Results

RT: 3.42
Area: 235215
Amount: 34.071842
Amount Units: ug/l



Manual Integration Results

RT: 3.42
Area: 404761
Amount: 51.100636
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:09:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

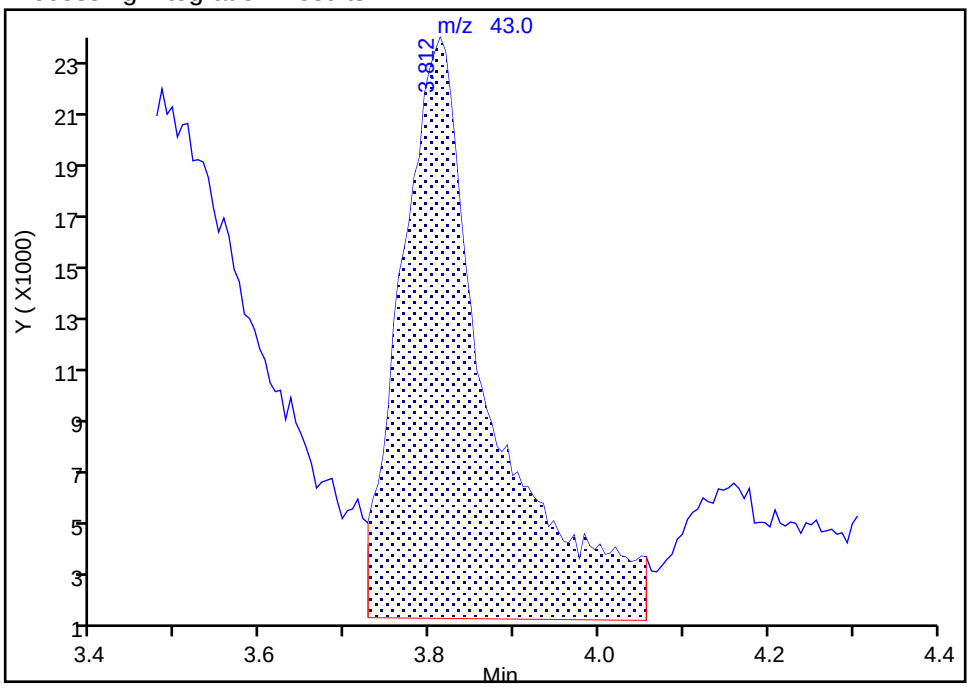
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X14.D				
Injection Date:	11-Mar-2021 20:11:30	Instrument ID:	10193		
Lims ID:	IC STD5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

22 Methyl acetate, CAS: 79-20-9

Signal: 1

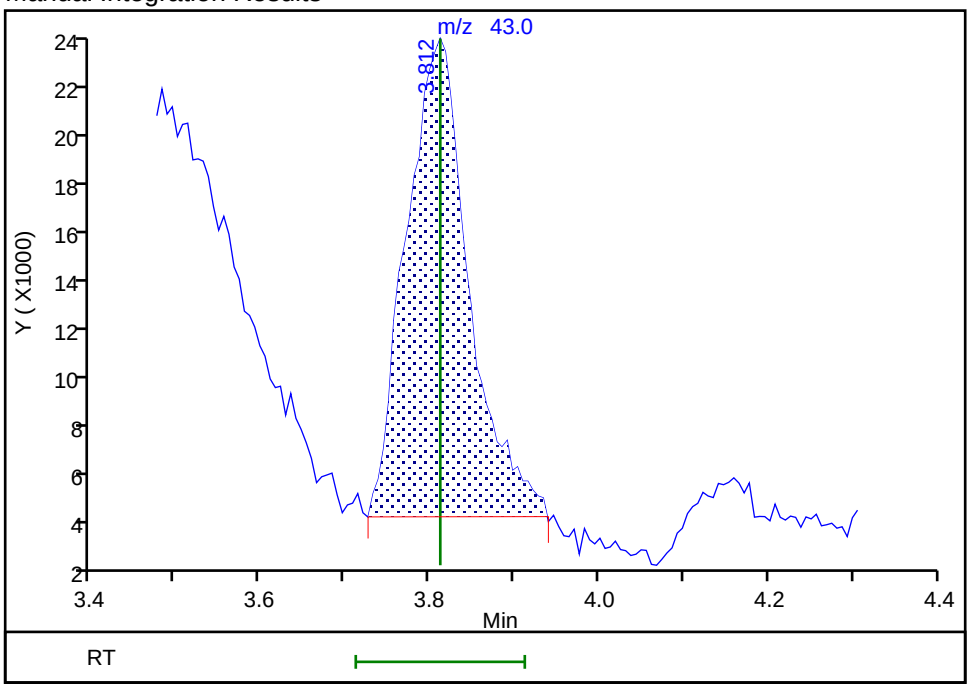
Processing Integration Results

RT: 3.81
Area: 161863
Amount: 5.407211
Amount Units: ug/l



Manual Integration Results

RT: 3.81
Area: 94849
Amount: 5.461166
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:10:16
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

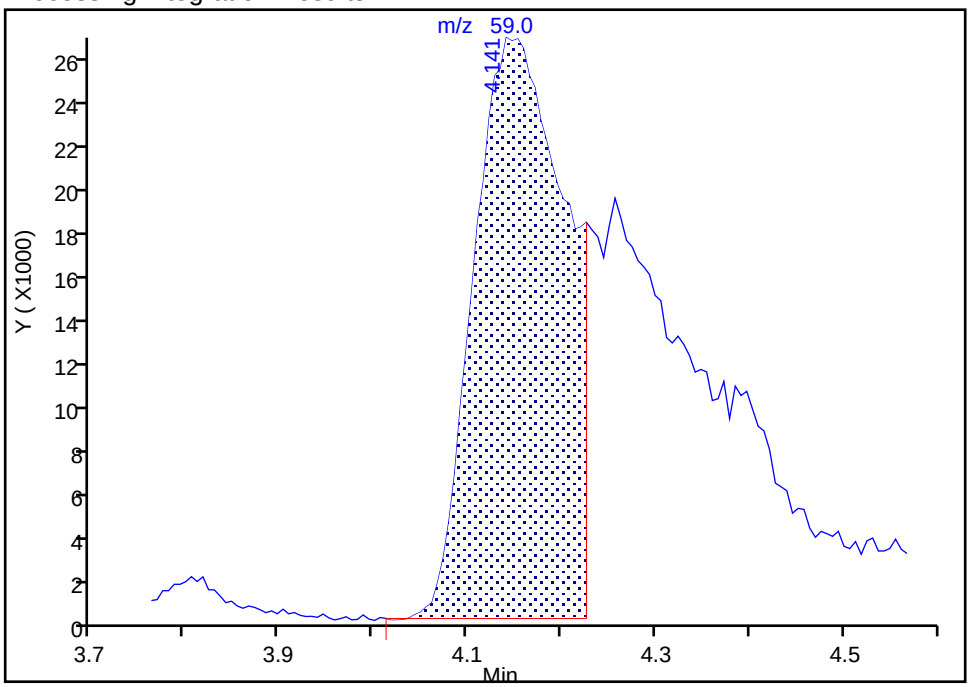
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X14.D
Injection Date: 11-Mar-2021 20:11:30 Instrument ID: 10193
Lims ID: IC STD5 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

26 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

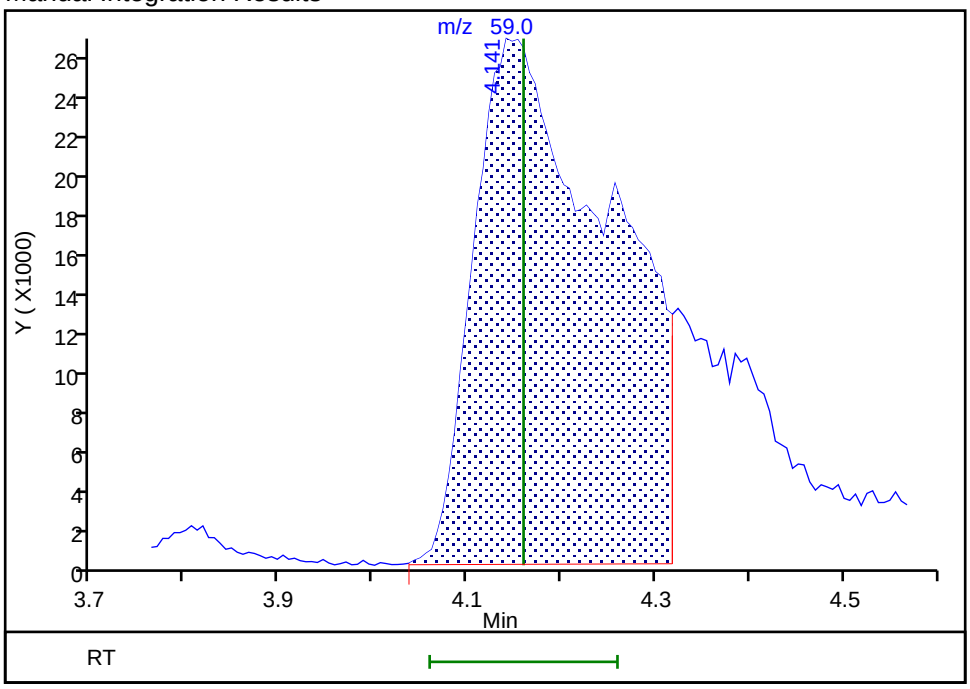
Processing Integration Results

RT: 4.14
Area: 181784
Amount: 77.819315
Amount Units: ug/l



Manual Integration Results

RT: 4.14
Area: 271870
Amount: 88.673993
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:10:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

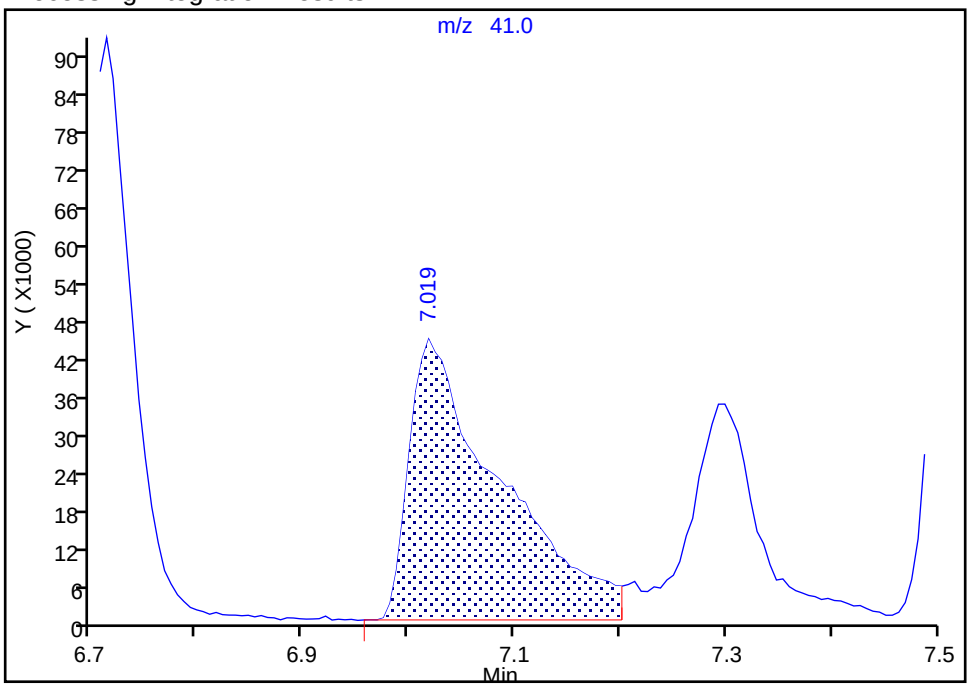
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X14.D				
Injection Date:	11-Mar-2021 20:11:30	Instrument ID:	10193		
Lims ID:	IC STD5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

52 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

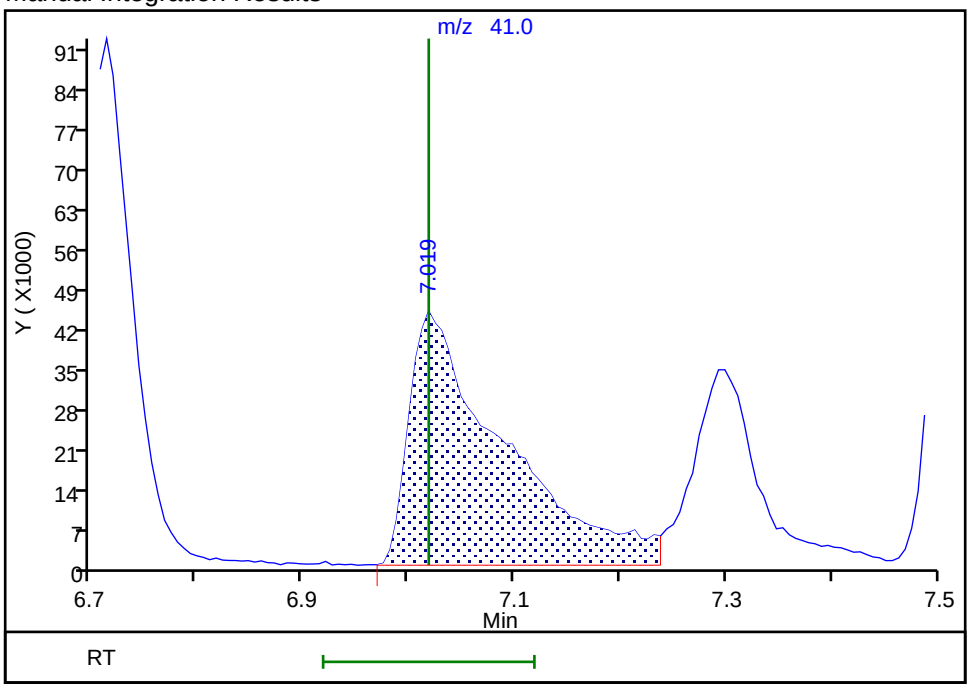
Processing Integration Results

RT: 7.02
Area: 264541
Amount: 228.6949
Amount Units: ug/l



Manual Integration Results

RT: 7.02
Area: 276854
Amount: 243.1722
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:11:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

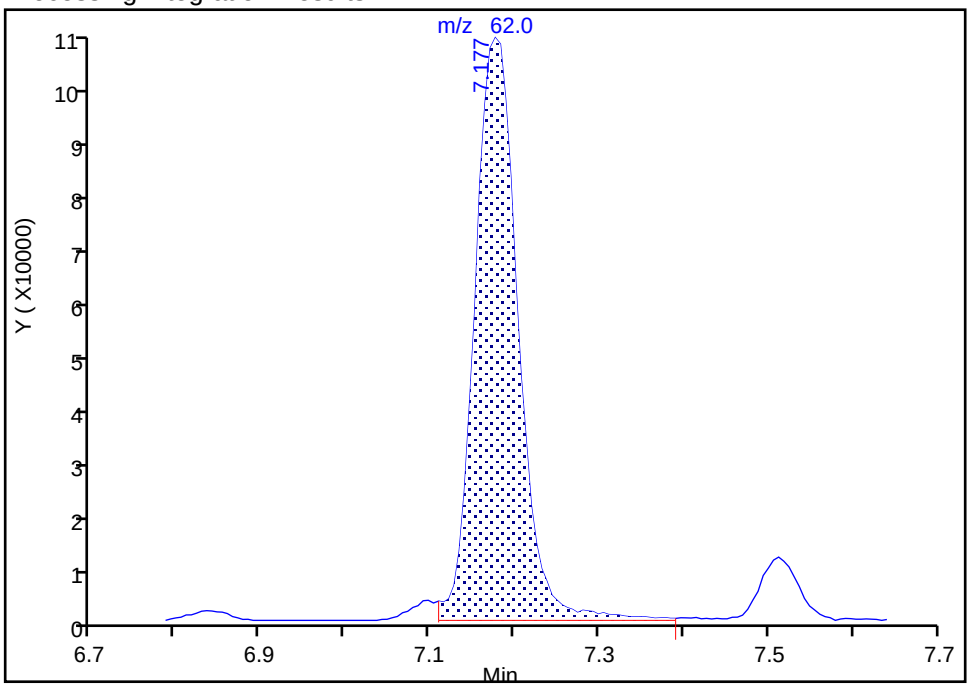
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X14.D				
Injection Date:	11-Mar-2021 20:11:30	Instrument ID:	10193		
Lims ID:	IC STD5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

55 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

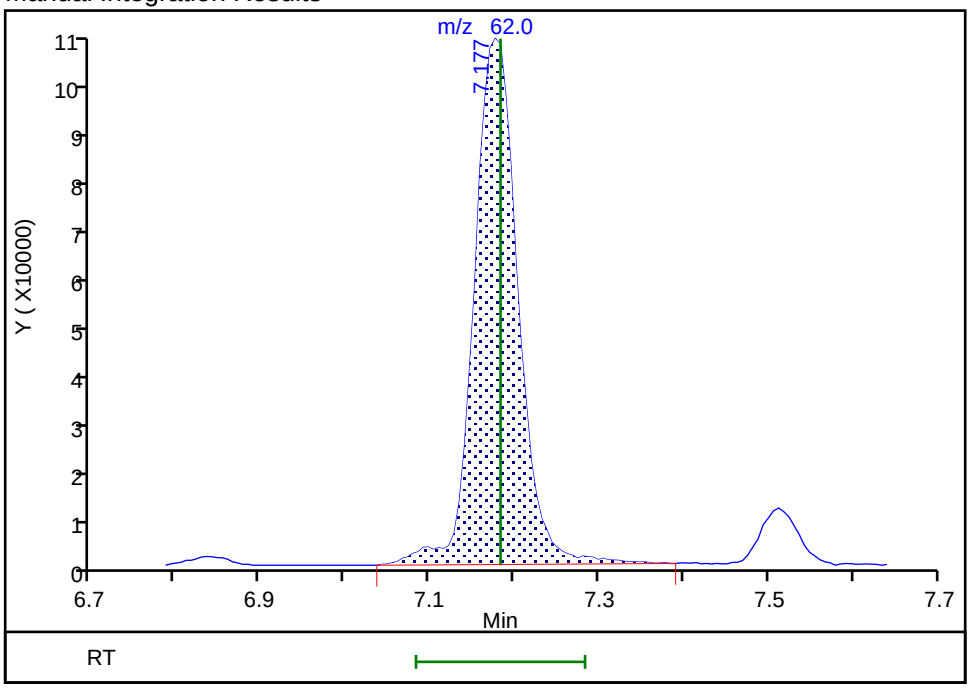
Processing Integration Results

RT: 7.18
Area: 363157
Amount: 4.865798
Amount Units: ug/l



Manual Integration Results

RT: 7.18
Area: 366485
Amount: 4.891659
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:11:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

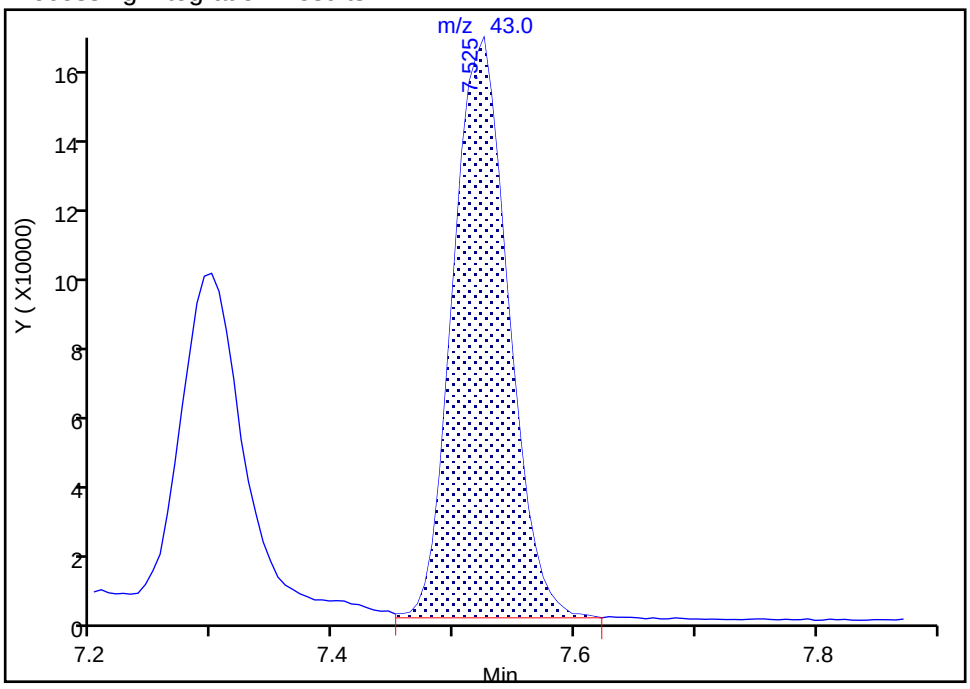
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X14.D				
Injection Date:	11-Mar-2021 20:11:30	Instrument ID:	10193		
Lims ID:	IC STD5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

58 n-Heptane, CAS: 142-82-5

Signal: 1

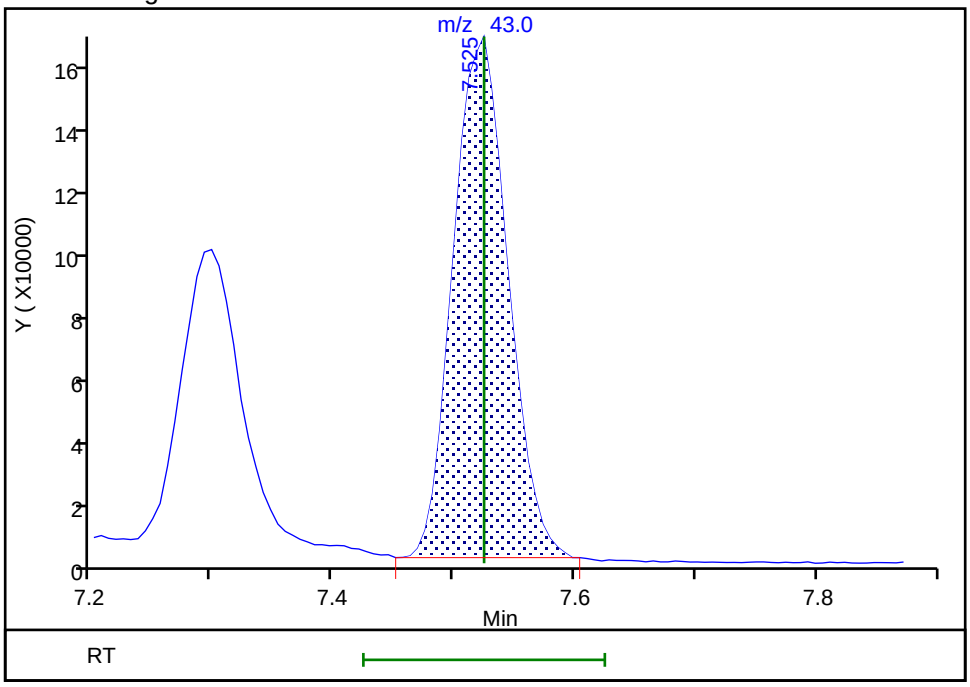
Processing Integration Results

RT: 7.52
Area: 512899
Amount: 5.121732
Amount Units: ug/l



Manual Integration Results

RT: 7.52
Area: 502833
Amount: 4.938499
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:12:33
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

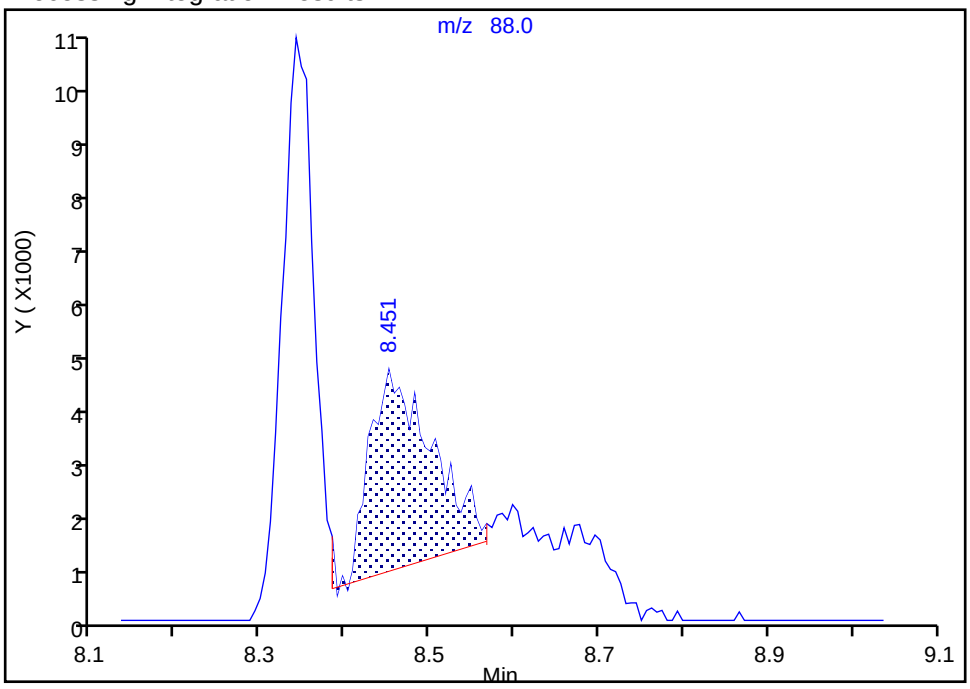
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X14.D				
Injection Date:	11-Mar-2021 20:11:30	Instrument ID:	10193		
Lims ID:	IC STD5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

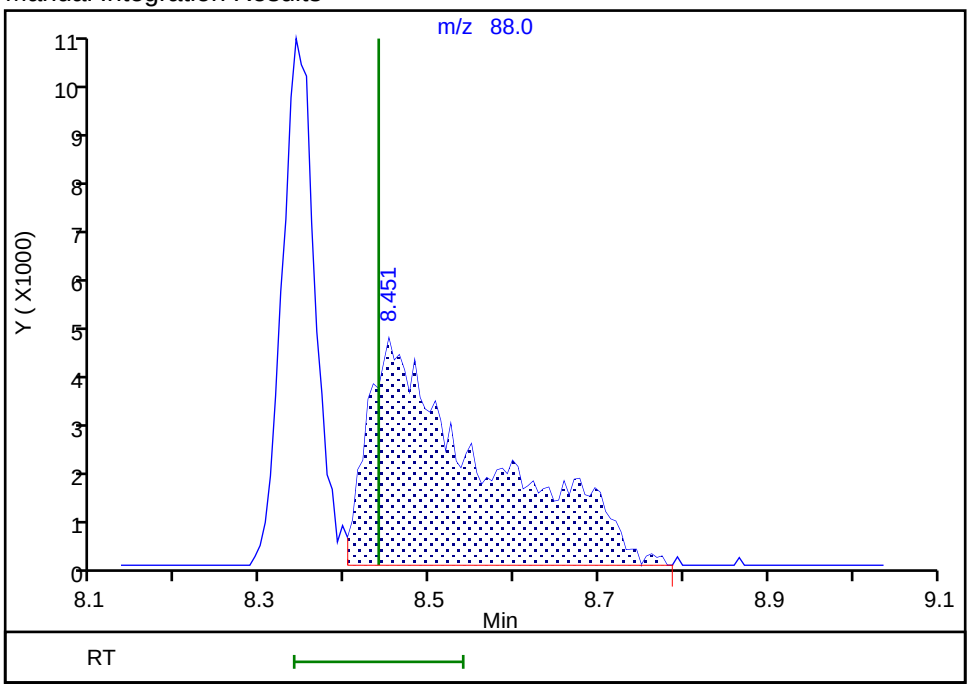
Processing Integration Results

RT: 8.45
Area: 18915
Amount: 136.3588
Amount Units: ug/l



Manual Integration Results

RT: 8.45
Area: 44758
Amount: 216.3151
Amount Units: ug/l



Reviewer: knouses, 23-Mar-2021 12:01:14

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X15.D
Lims ID: IC STD2 Lg
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 11-Mar-2021 20:33:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023820-015
Misc. Info.: IC STD2 LG
Operator ID: SRK36897 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 23-Mar-2021 16:56:12 Calib Date: 11-Mar-2021 21:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1638

First Level Reviewer: knouses Date: 12-Mar-2021 09:20:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.879	1.879	0.000	99	111163	2.00	1.91	
3 Chloromethane	50	2.074	2.074	0.000	99	132701	2.00	1.85	M
4 Butadiene	39	2.178	2.178	0.000	93	159570	2.00	2.02	
5 Vinyl chloride	62	2.184	2.184	0.000	67	128627	2.00	1.96	
6 Bromomethane	94	2.489	2.489	0.000	92	87944	2.00	1.86	
7 Chloroethane	64	2.562	2.562	0.000	99	81222	2.00	1.89	
8 Dichlorofluoromethane	67	2.800	2.800	0.000	97	185905	2.00	1.88	
9 Trichlorofluoromethane	101	2.861	2.861	0.000	97	169901	2.00	1.90	M
11 Ethyl ether	59	3.086	3.086	0.000	91	91906	2.00	1.89	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.172	3.172	0.000	95	142547	2.00	2.03	
13 Acrolein	56	3.257	3.257	0.000	99	710384	100.0	104.9	
14 1,1-Dichloroethene	96	3.379	3.379	0.000	96	100690	2.00	1.99	
15 112TCTFE	101	3.410	3.410	0.000	93	113688	2.00	2.07	
16 Acetone	43	3.416	3.416	0.000	60	165522	20.0	20.7	M
17 Iodomethane	142	3.562	3.562	0.000	99	198061	2.00	2.01	
18 Isopropyl alcohol	45	3.586	3.586	0.000	38	62557	40.0	33.0	
19 Ethyl bromide	108	3.592	3.592	0.000	97	80324	2.00	1.90	
20 Carbon disulfide	76	3.659	3.659	0.000	100	342025	2.00	1.98	
22 Methyl acetate	43	3.824	3.824	0.000	96	29570	2.00	1.69	M
23 3-Chloro-1-propene	41	3.830	3.830	0.000	90	171541	2.00	1.84	
24 Methylene Chloride	84	4.007	4.007	0.000	94	113062	2.00	1.99	
* 25 t-Butyl alcohol-d10 (IS)	65	4.050	4.050	0.000	0	173036	50.0	50.0	
26 2-Methyl-2-propanol	59	4.165	4.165	0.000	99	113296	40.0	36.6	
27 Acrylonitrile	53	4.354	4.354	0.000	99	110460	10.0	9.73	
28 Methyl tert-butyl ether	73	4.391	4.391	0.000	95	337303	2.00	2.02	
29 trans-1,2-Dichloroethene	96	4.403	4.403	0.000	97	116638	2.00	2.01	
30 Hexane	57	4.824	4.824	0.000	94	184368	2.00	2.01	
32 1,1-Dichloroethane	63	5.074	5.074	0.000	96	218292	2.00	1.99	
33 Isopropyl ether	45	5.129	5.129	0.000	94	418436	2.00	2.03	
34 2-Chloro-1,3-butadiene	53	5.184	5.184	0.000	92	197110	2.00	1.98	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Tert-butyl ethyl ether	59	5.665	5.665	0.000	98	404995	2.00	2.01	
36 2-Butanone (MEK)	43	5.885	5.885	0.000	100	334264	20.0	20.6	
37 cis-1,2-Dichloroethene	96	5.915	5.915	0.000	83	132404	2.00	2.03	
38 2,2-Dichloropropane	77	5.921	5.921	0.000	90	180432	2.00	2.02	
40 Propionitrile	54	5.988	5.988	0.000	99	183011	40.0	42.7	
S 42 1,2-Dichloroethene, Total	100				0			4.04	
43 Methacrylonitrile	67	6.189	6.189	0.000	92	318559	20.0	19.9	
44 Chlorobromomethane	128	6.244	6.244	0.000	93	55137	2.00	1.90	
45 Tetrahydrofuran	71	6.250	6.250	0.000	91	96621	20.0	20.7	
46 Chloroform	83	6.403	6.403	0.000	94	209889	2.00	2.00	
$ 47 Dibromofluoromethane (Surr)	113	6.622	6.622	0.000	93	522307	10.0	10.0	
48 1,1,1-Trichloroethane	97	6.622	6.622	0.000	89	184579	2.00	2.00	
49 Cyclohexane	56	6.714	6.714	0.000	93	223626	2.00	2.03	
50 Carbon tetrachloride	117	6.830	6.830	0.000	98	153315	2.00	1.99	
51 1,1-Dichloropropene	75	6.842	6.842	0.000	95	170486	2.00	1.99	
52 Isobutyl alcohol	41	7.031	7.031	0.000	94	104478	100.0	90.9	M
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.080	7.080	0.000	0	107636	10.0	10.0	
54 Benzene	78	7.104	7.104	0.000	95	493717	2.00	1.99	
55 1,2-Dichloroethane	62	7.171	7.171	0.000	97	145889	2.00	1.97	M
56 Tert-amyl methyl ether	73	7.299	7.299	0.000	98	360361	2.00	2.01	
* 57 Fluorobenzene (IS)	96	7.512	7.512	0.000	99	2201773	10.0	10.0	
58 n-Heptane	43	7.525	7.525	0.000	94	195123	2.00	1.94	
59 n-Butanol	56	7.927	7.927	0.000	90	174724	200.0	179.3	M
60 Trichloroethene	95	7.994	7.994	0.000	97	125981	2.00	2.00	
61 Methylcyclohexane	83	8.299	8.299	0.000	93	203974	2.00	1.81	
62 1,2-Dichloropropane	63	8.335	8.335	0.000	95	128598	2.00	2.00	
63 2-ethoxy-2-methyl butane	87	8.342	8.342	0.000	93	202202	2.00	2.03	
64 Methyl methacrylate	69	8.433	8.433	0.000	92	67109	2.00	2.07	
65 1,4-Dioxane	88	8.482	8.482	0.000	30	18216	100.0	87.2	M
66 Dibromomethane	93	8.439	8.439	0.000	98	60285	2.00	2.01	
67 Dichlorobromomethane	83	8.689	8.689	0.000	99	148536	2.00	2.00	
68 2-Nitropropane	41	8.969	8.969	0.000	99	216244	20.0	20.4	
71 1-Bromo-2-chloroethane	63	9.079	9.079	0.000	99	117451	2.00	1.92	
72 cis-1,3-Dichloropropene	75	9.250	9.250	0.000	94	195611	2.00	2.04	
73 4-Methyl-2-pentanone (MIBK)	43	9.433	9.433	0.000	97	925221	20.0	20.7	
$ 74 Toluene-d8 (Surr)	98	9.561	9.561	0.000	94	2177829	10.0	10.0	
75 Toluene	92	9.640	9.640	0.000	98	318476	2.00	2.01	
76 trans-1,3-Dichloropropene	75	9.914	9.914	0.000	95	158328	2.00	1.96	
78 Ethyl methacrylate	69	9.981	9.981	0.000	90	142527	2.00	2.08	
S 77 1,3-Dichloropropene, Total	100				0			3.99	
79 1,1,2-Trichloroethane	97	10.122	10.122	0.000	91	89420	2.00	2.03	
80 Tetrachloroethene	166	10.201	10.201	0.000	96	136374	2.00	2.03	
81 1,3-Dichloropropane	76	10.292	10.292	0.000	93	158670	2.00	2.01	
82 2-Hexanone	43	10.353	10.353	0.000	97	658249	20.0	20.1	
83 Chlorodibromomethane	129	10.506	10.506	0.000	90	99777	2.00	2.01	
84 Ethylene Dibromide	107	10.615	10.615	0.000	98	86725	2.00	2.04	
* 85 Chlorobenzene-d5 (IS)	117	11.060	11.060	0.000	87	1624493	10.0	10.0	
86 1-Chlorohexane	91	11.073	11.073	0.000	98	179673	2.00	1.97	
87 Chlorobenzene	112	11.085	11.085	0.000	95	351160	2.00	1.96	
89 1,1,1,2-Tetrachloroethane	131	11.170	11.170	0.000	93	120869	2.00	2.03	
90 Ethylbenzene	91	11.176	11.176	0.000	99	618284	2.00	2.00	
S 88 Xylenes, Total	106				0			6.05	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
91 m-Xylene & p-Xylene	106	11.292	11.292	0.000	99	482205	4.00	4.02	
92 o-Xylene	106	11.627	11.627	0.000	96	242196	2.00	2.03	
93 Styrene	104	11.646	11.646	0.000	95	399519	2.00	2.00	
94 Bromoform	173	11.804	11.804	0.000	95	56445	2.00	2.00	
95 Isopropylbenzene	105	11.932	11.932	0.000	96	622578	2.00	2.01	
$ 98 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	88	831177	10.0	9.99	
99 1,1,2,2-Tetrachloroethane	83	12.188	12.188	0.000	95	110832	2.00	1.97	
100 Bromobenzene	156	12.194	12.194	0.000	95	151266	2.00	1.99	
101 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	96	335202	20.0	20.3	
102 1,2,3-Trichloropropane	110	12.231	12.231	0.000	80	31166	2.00	2.05	
103 N-Propylbenzene	91	12.268	12.268	0.000	99	724330	2.00	1.97	
104 2-Chlorotoluene	126	12.341	12.341	0.000	96	151778	2.00	2.00	
105 1,3,5-Trimethylbenzene	105	12.408	12.408	0.000	94	534368	2.00	1.99	
106 4-Chlorotoluene	126	12.438	12.438	0.000	98	157773	2.00	1.98	
107 tert-Butylbenzene	134	12.646	12.646	0.000	94	115071	2.00	1.98	
108 Pentachloroethane	167	12.682	12.682	0.000	90	77921	2.00	1.86	
109 1,2,4-Trimethylbenzene	105	12.694	12.694	0.000	98	559260	2.00	2.01	
110 sec-Butylbenzene	105	12.816	12.816	0.000	94	689917	2.00	2.00	
111 1,3-Dichlorobenzene	146	12.914	12.914	0.000	97	301375	2.00	2.01	
112 4-Isopropyltoluene	119	12.926	12.926	0.000	97	601720	2.00	2.01	
* 113 1,4-Dichlorobenzene-d4	152	12.969	12.969	0.000	96	891523	10.0	10.0	
114 1,4-Dichlorobenzene	146	12.987	12.987	0.000	96	305402	2.00	1.98	
115 1,2,3-Trimethylbenzene	120	12.999	12.999	0.000	99	229432	2.00	1.86	
116 Benzyl chloride	126	13.072	13.072	0.000	99	42651	2.00	2.03	
119 n-Butylbenzene	92	13.219	13.219	0.000	98	301250	2.00	1.97	
120 1,2-Dichlorobenzene	146	13.249	13.249	0.000	97	280041	2.00	1.98	
118 p-Diethylbenzene	119	13.273	13.273	0.000	86	283452	2.00	1.85	
123 1,2-Dibromo-3-Chloropropane	155	13.804	13.804	0.000	95	16170	2.00	2.08	
124 1,3,5-Trichlorobenzene	180	13.926	13.926	0.000	97	243600	2.00	1.98	
125 1,2,4-Trichlorobenzene	180	14.353	14.353	0.000	94	222413	2.00	2.01	
126 Hexachlorobutadiene	225	14.438	14.438	0.000	98	102890	2.00	1.96	
127 Naphthalene	128	14.535	14.535	0.000	97	410615	2.00	2.06	
128 1,2,3-Trichlorobenzene	180	14.682	14.682	0.000	95	196165	2.00	2.00	
129 2-Methylnaphthalene	142	15.304	15.304	0.000	92	272634	2.00	1.98	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00041	Amount Added:	2.00	Units: uL	
MSV_RV4_826_00047	Amount Added:	2.00	Units: uL	
MSV_RV4GAS826_00118	Amount Added:	2.00	Units: uL	
MSV_HP25_ISSS_00023	Amount Added:	1.00	Units: uL	Run Reagent

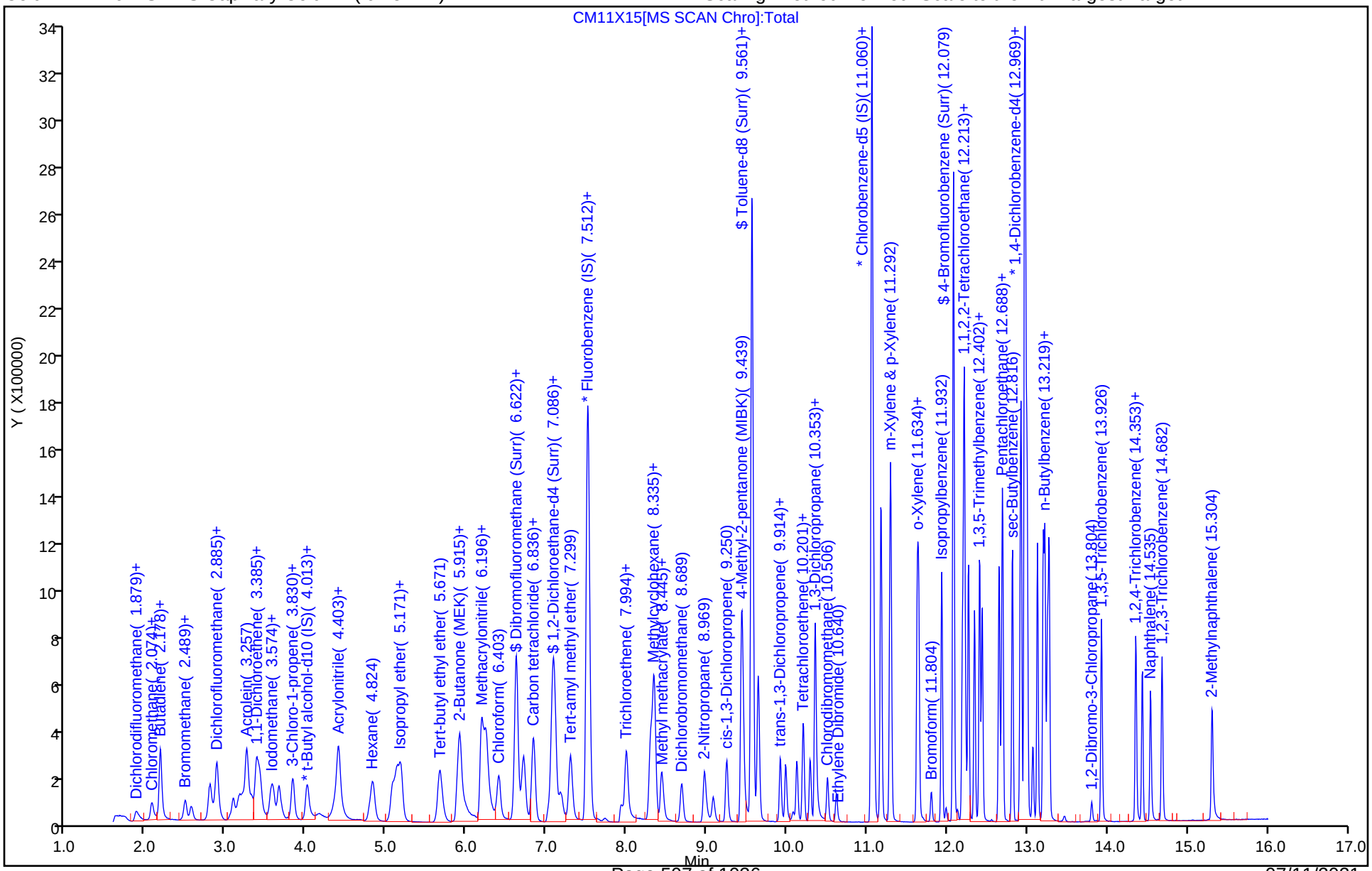
Report Date: 23-Mar-2021 16:56:13 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X15.D

Injection Date:	11-Mar-2021 20:33:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	IC STD2 Lg			Worklist Smp#:	15
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

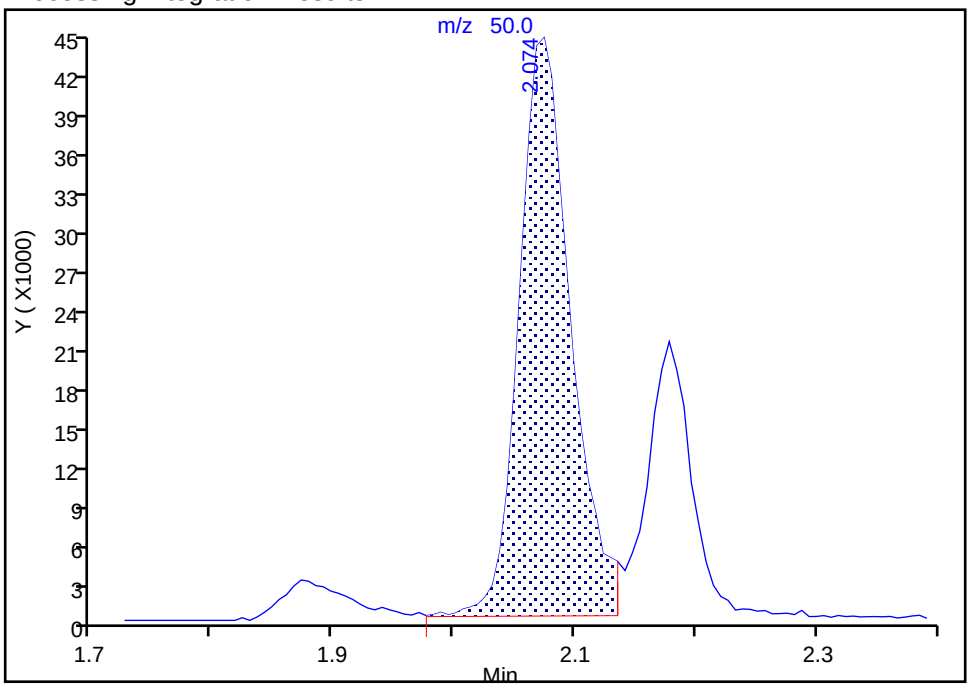
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X15.D				
Injection Date:	11-Mar-2021 20:33:30	Instrument ID:	10193		
Lims ID:	IC STD2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

3 Chloromethane, CAS: 74-87-3

Signal: 1

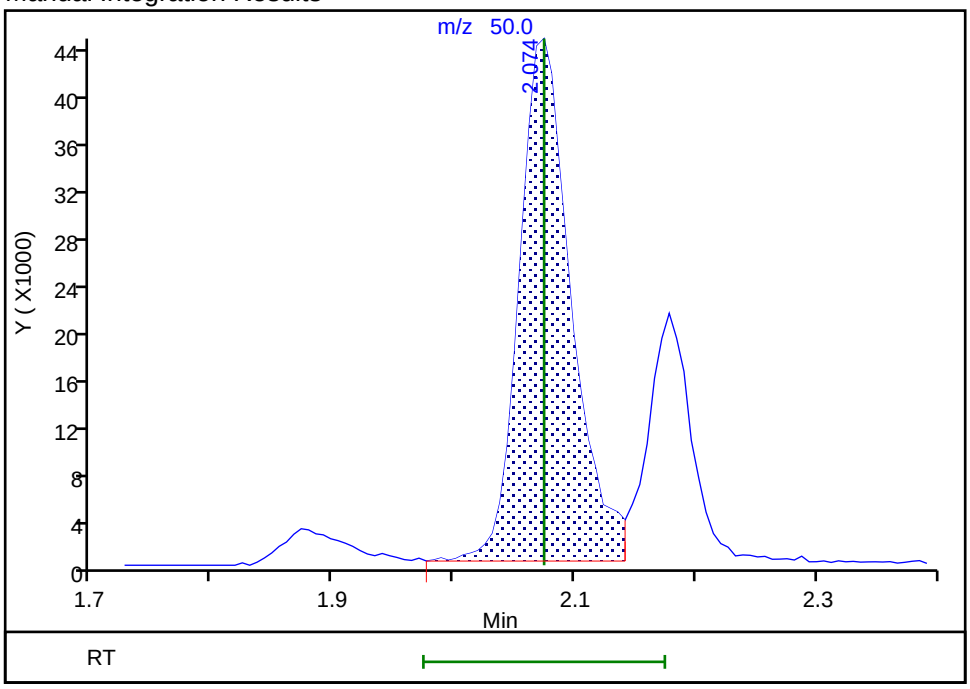
Processing Integration Results

RT: 2.07
Area: 131751
Amount: 1.468549
Amount Units: ug/l



Manual Integration Results

RT: 2.07
Area: 132701
Amount: 1.846308
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:15:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

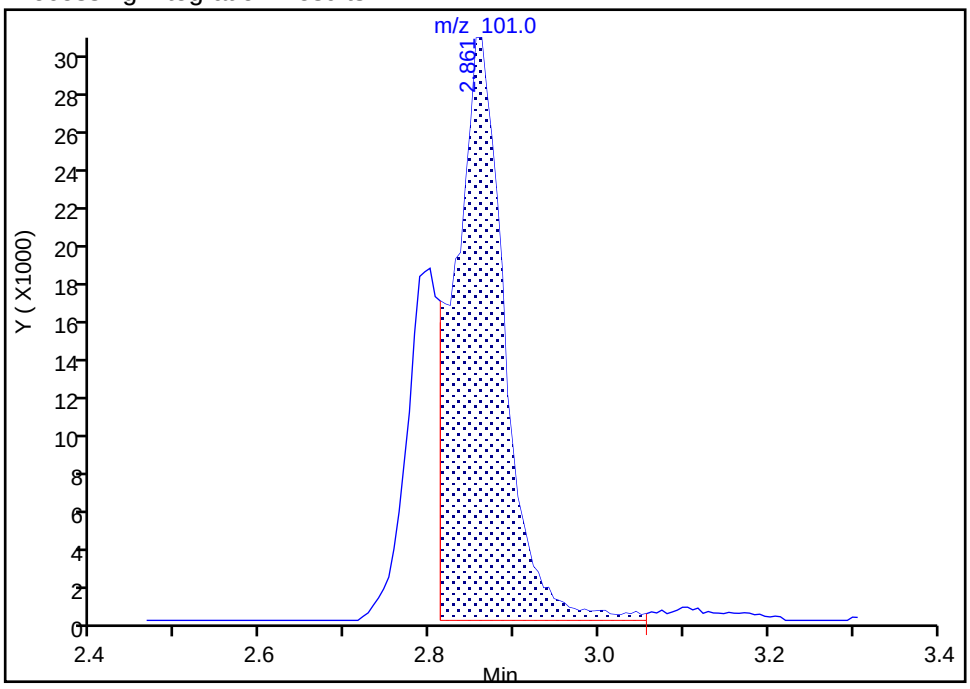
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X15.D				
Injection Date:	11-Mar-2021 20:33:30	Instrument ID:	10193		
Lims ID:	IC STD2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

9 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

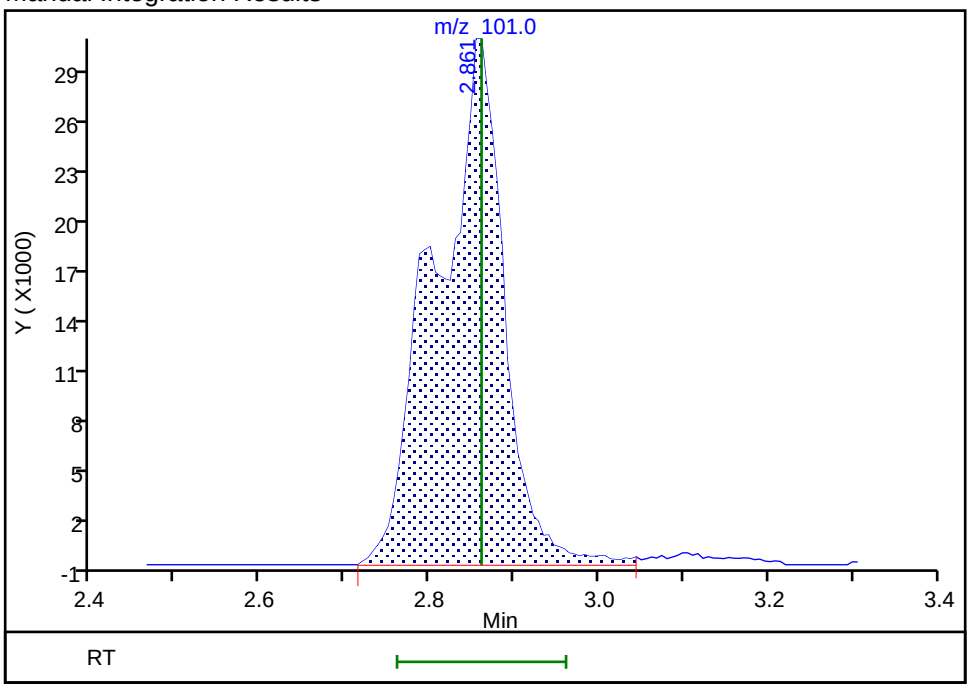
Processing Integration Results

RT: 2.86
Area: 125535
Amount: 1.223527
Amount Units: ug/l



Manual Integration Results

RT: 2.86
Area: 169901
Amount: 1.897737
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:15:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

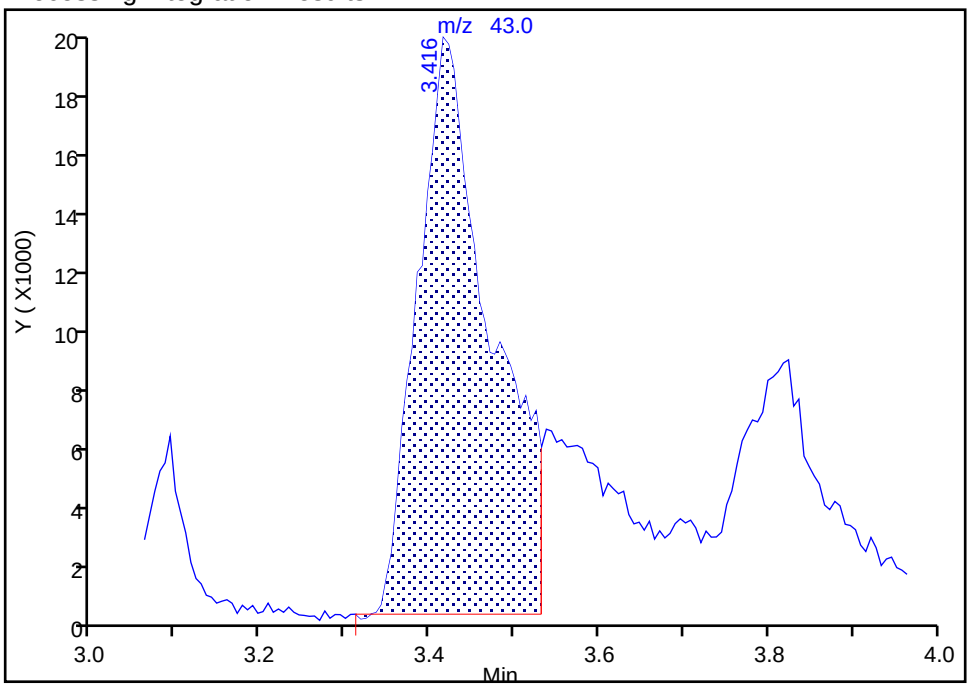
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X15.D				
Injection Date:	11-Mar-2021 20:33:30	Instrument ID:	10193		
Lims ID:	IC STD2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

16 Acetone, CAS: 67-64-1

Signal: 1

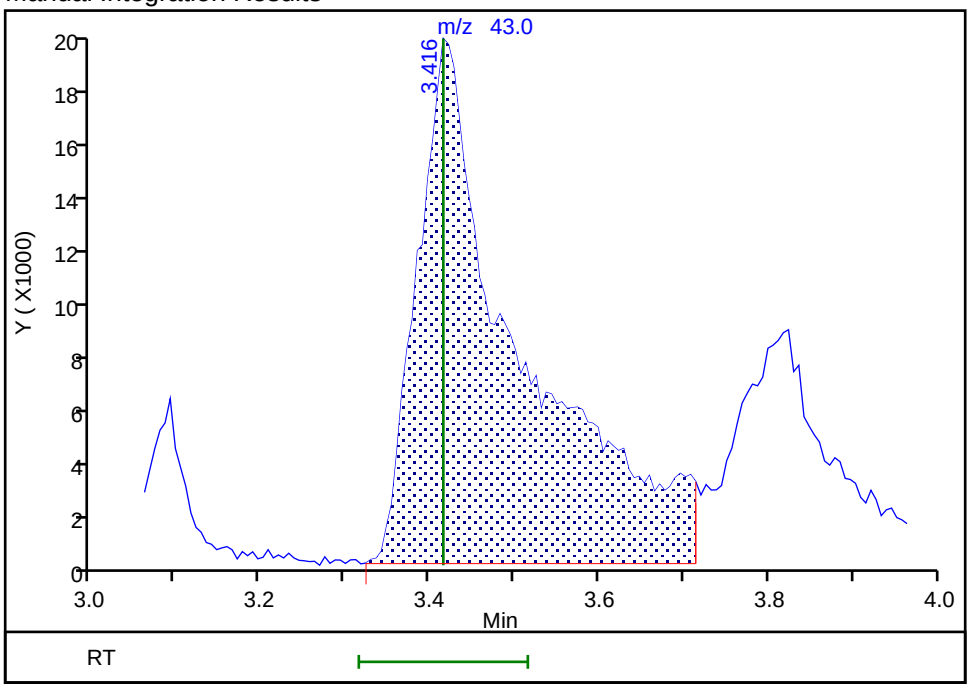
Processing Integration Results

RT: 3.42
Area: 116761
Amount: 16.961657
Amount Units: ug/l



Manual Integration Results

RT: 3.42
Area: 165522
Amount: 20.708697
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:16:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

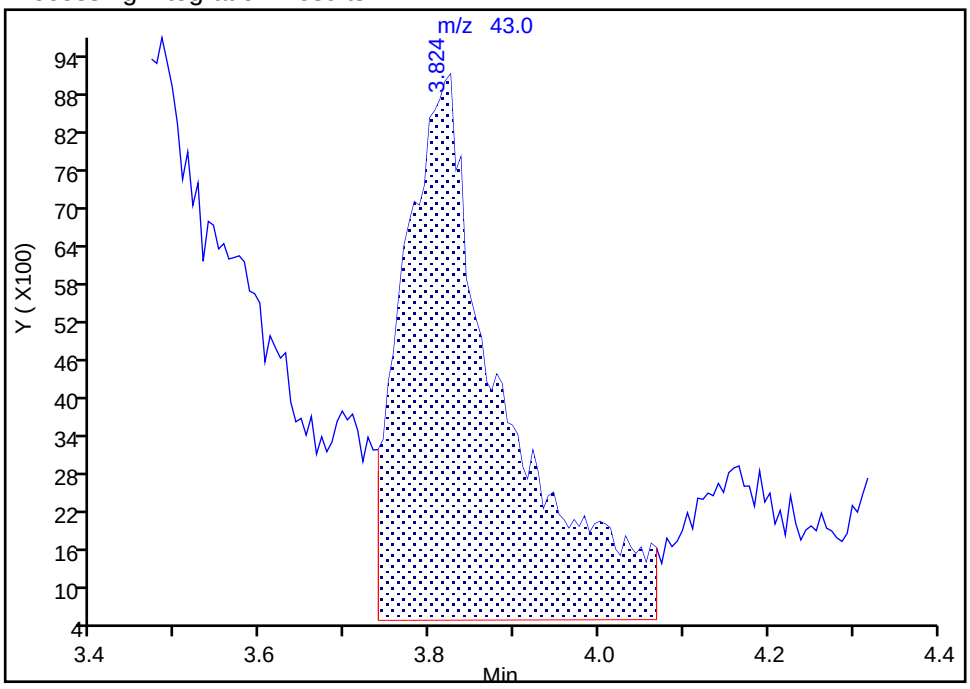
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X15.D				
Injection Date:	11-Mar-2021 20:33:30	Instrument ID:	10193		
Lims ID:	IC STD2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

22 Methyl acetate, CAS: 79-20-9

Signal: 1

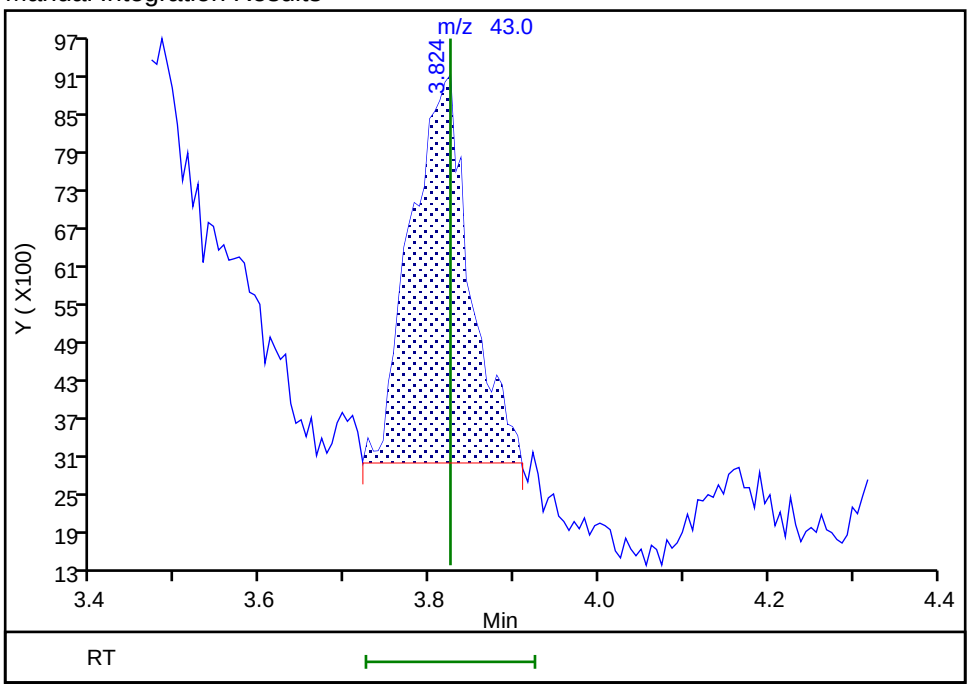
Processing Integration Results

RT: 3.82
Area: 70542
Amount: 2.617640
Amount Units: ug/l



Manual Integration Results

RT: 3.82
Area: 29570
Amount: 1.687226
Amount Units: ug/l



Reviewer: knouses, 23-Mar-2021 12:22:30

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

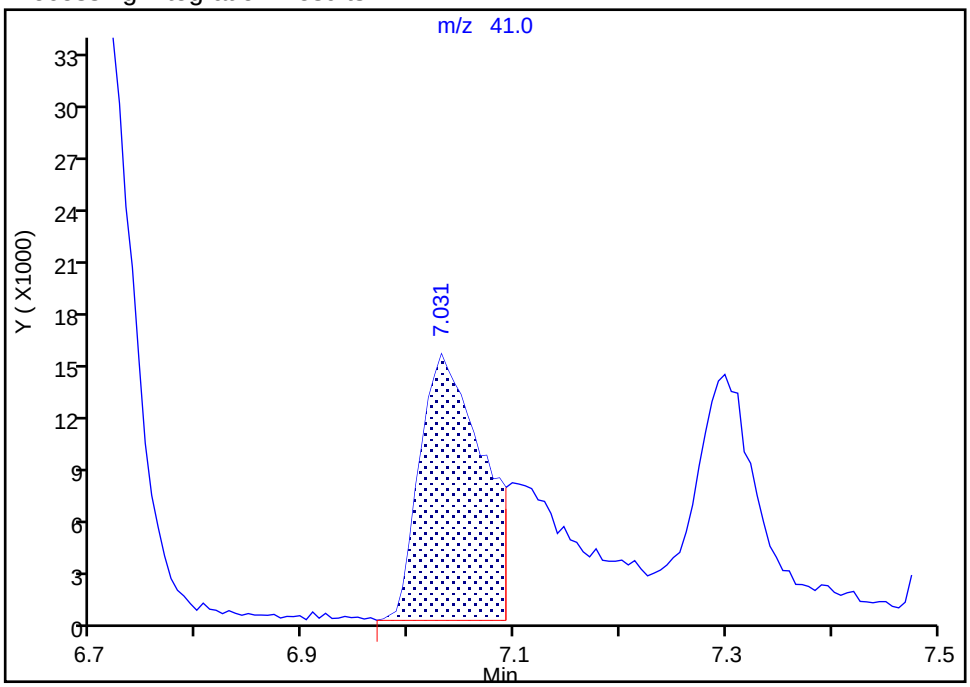
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X15.D				
Injection Date:	11-Mar-2021 20:33:30	Instrument ID:	10193		
Lims ID:	IC STD2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

52 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

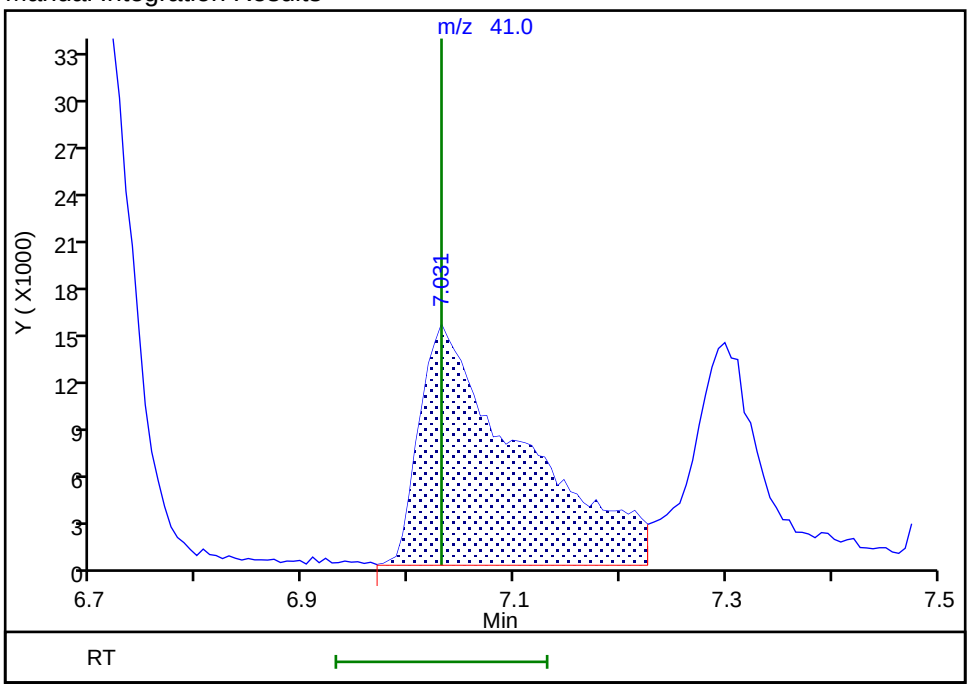
Processing Integration Results

RT: 7.03
Area: 64052
Amount: 73.677688
Amount Units: ug/l



Manual Integration Results

RT: 7.03
Area: 104478
Amount: 90.940516
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:18:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

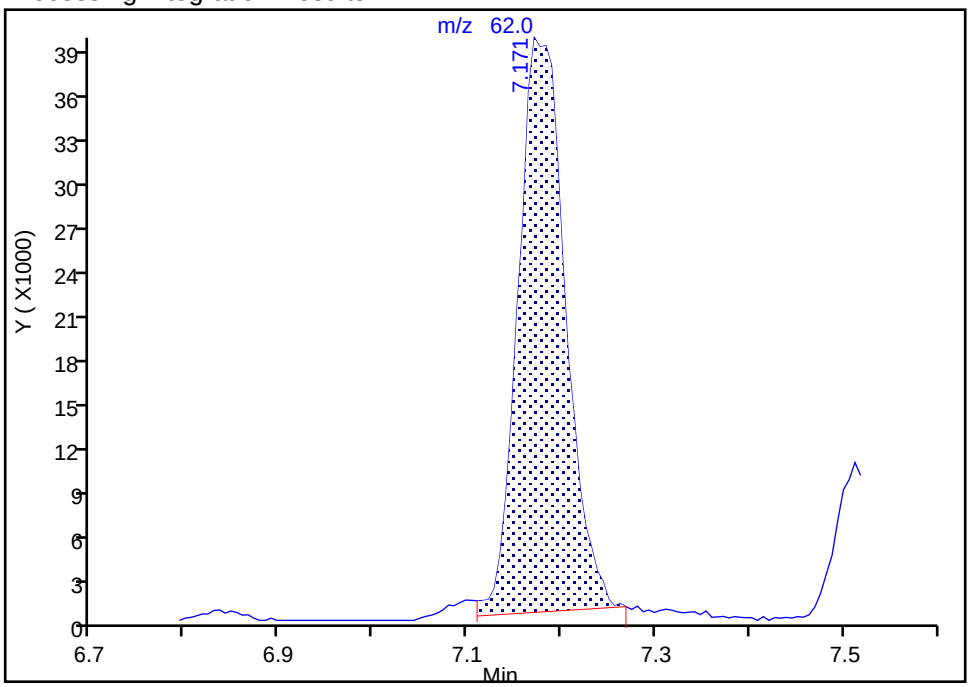
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X15.D
Injection Date: 11-Mar-2021 20:33:30 Instrument ID: 10193
Lims ID: IC STD2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

55 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

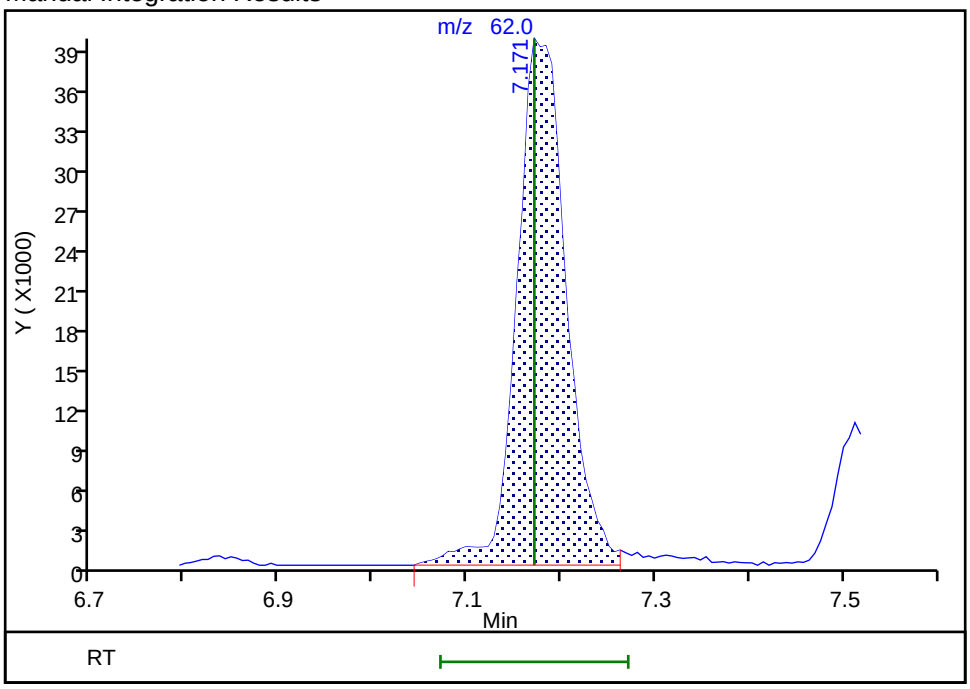
Processing Integration Results

RT: 7.17
Area: 137360
Amount: 1.858229
Amount Units: ug/l



Manual Integration Results

RT: 7.17
Area: 145889
Amount: 1.968587
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:18:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

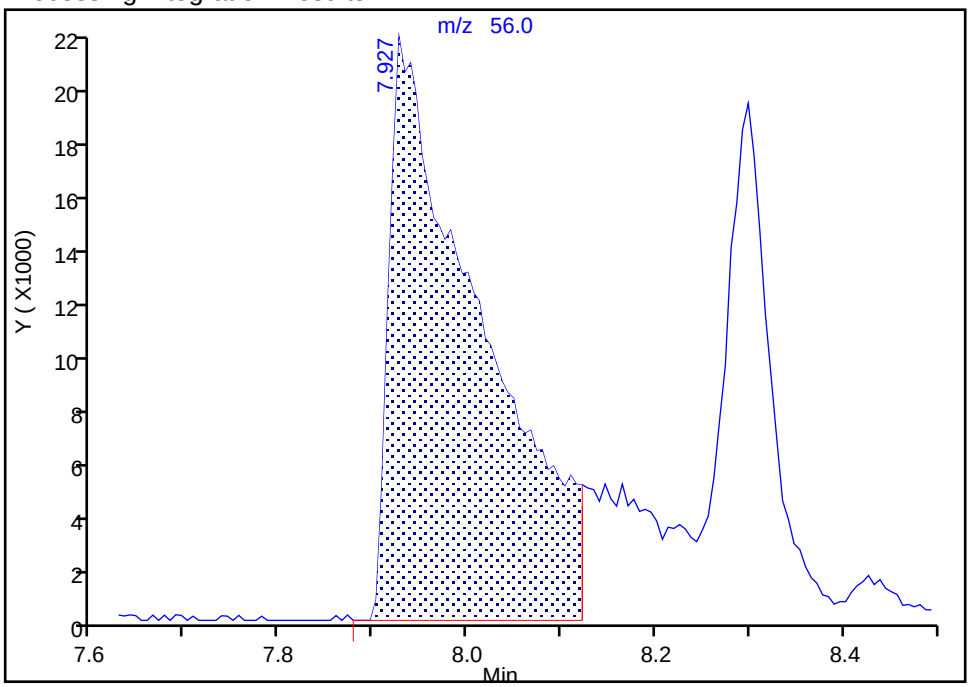
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X15.D				
Injection Date:	11-Mar-2021 20:33:30	Instrument ID:	10193		
Lims ID:	IC STD2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

59 n-Butanol, CAS: 71-36-3

Signal: 1

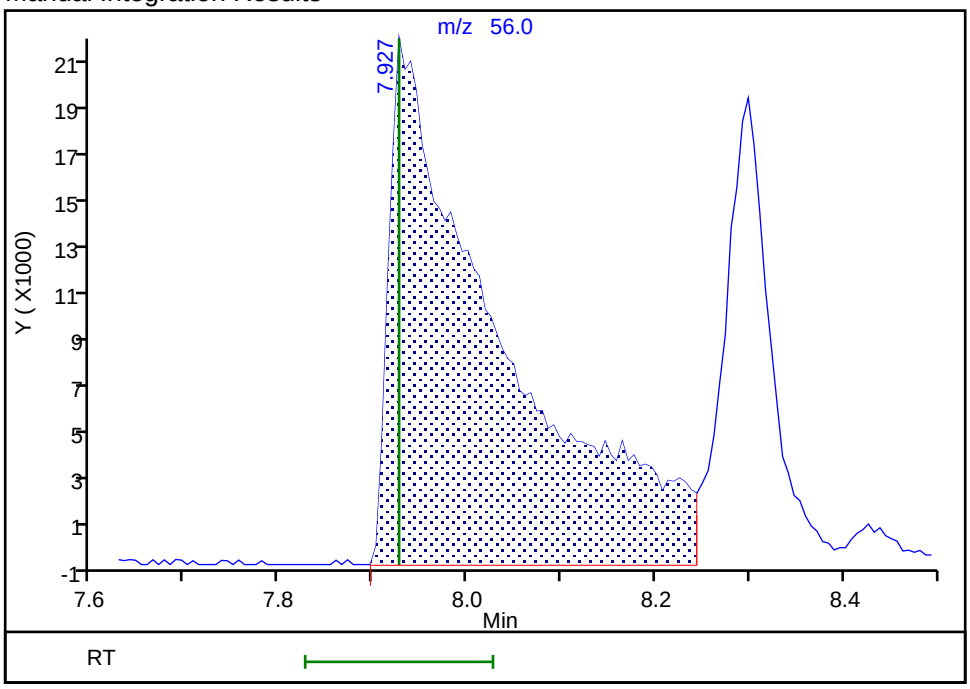
Processing Integration Results

RT: 7.93
Area: 144833
Amount: 179.4919
Amount Units: ug/l



Manual Integration Results

RT: 7.93
Area: 174724
Amount: 179.3333
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:19:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

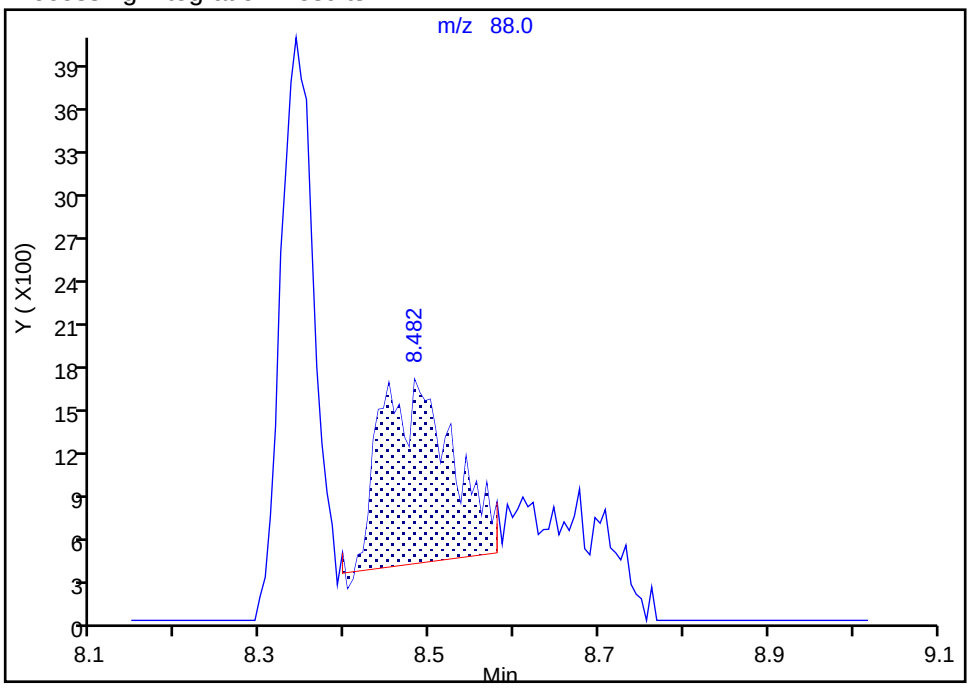
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X15.D
Injection Date: 11-Mar-2021 20:33:30 Instrument ID: 10193
Lims ID: IC STD2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

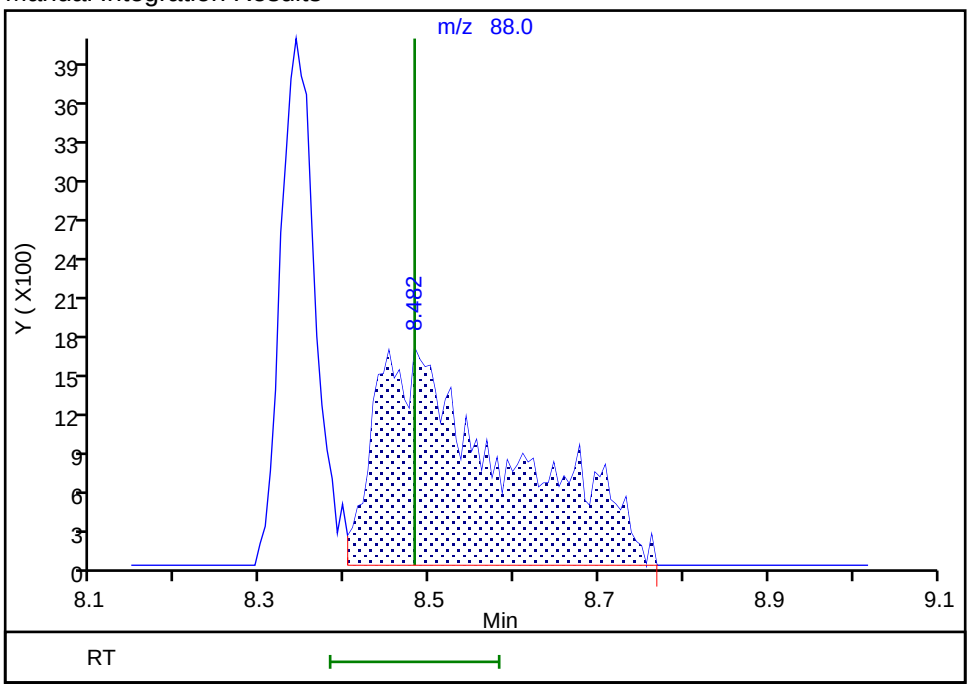
Processing Integration Results

RT: 8.48
Area: 7563
Amount: 49.388293
Amount Units: ug/l



Manual Integration Results

RT: 8.48
Area: 18216
Amount: 87.244596
Amount Units: ug/l



Reviewer: knouses, 23-Mar-2021 12:00:03
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X16.D
Lims ID: IC STD1 Lg
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-Mar-2021 20:55:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023820-016
Misc. Info.: IC STD.5 LG
Operator ID: SRK36897 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 23-Mar-2021 16:56:26 Calib Date: 11-Mar-2021 21:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1638

First Level Reviewer: knouses Date: 12-Mar-2021 09:26:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.886	1.879	0.007	98	54318	1.00	0.9365	
3 Chloromethane	50	2.087	2.074	0.013	99	66165	1.00	0.9232	M
4 Butadiene	39	2.190	2.178	0.012	94	77994	1.00	0.99	M
5 Vinyl chloride	62	2.196	2.184	0.012	69	63531	1.00	0.9704	
6 Bromomethane	94	2.501	2.489	0.012	91	44794	1.00	0.9514	
7 Chloroethane	64	2.574	2.562	0.012	99	41826	1.00	0.9752	
8 Dichlorofluoromethane	67	2.812	2.800	0.012	98	93918	1.00	0.9502	
9 Trichlorofluoromethane	101	2.873	2.861	0.012	97	85429	1.00	0.9570	
11 Ethyl ether	59	3.105	3.086	0.019	92	45094	1.00	0.9310	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.184	3.172	0.012	94	71240	1.00	1.02	
13 Acrolein	56	3.269	3.257	0.012	99	353509	50.0	54.5	
14 1,1-Dichloroethene	96	3.391	3.379	0.012	97	51031	1.00	1.01	
15 112TCTFE	101	3.434	3.410	0.024	92	55171	1.00	1.01	
16 Acetone	43	3.434	3.416	0.018	65	79397	10.0	10.4	M
17 Iodomethane	142	3.580	3.562	0.018	99	98011	1.00	1.00	
18 Isopropyl alcohol	45	3.568	3.586	-0.018	29	31971	20.0	17.6	
19 Ethyl bromide	108	3.605	3.592	0.013	98	39807	1.00	0.9425	
20 Carbon disulfide	76	3.672	3.659	0.013	100	170125	1.00	0.9889	
22 Methyl acetate	43	3.836	3.824	0.012	23	15090	1.00	0.8993	M
23 3-Chloro-1-propene	41	3.849	3.830	0.019	89	85456	1.00	0.9174	
24 Methylene Chloride	84	4.025	4.007	0.018	95	55939	1.00	0.9890	
* 25 t-Butyl alcohol-d10 (IS)	65	4.062	4.050	0.012	0	165663	50.0	50.0	
26 2-Methyl-2-propanol	59	4.172	4.165	0.007	97	66645	20.0	22.5	
27 Acrylonitrile	53	4.373	4.354	0.019	98	57341	5.00	5.27	
28 Methyl tert-butyl ether	73	4.409	4.391	0.018	96	166043	1.00	1.00	
29 trans-1,2-Dichloroethene	96	4.422	4.403	0.019	96	56687	1.00	0.9807	
30 Hexane	57	4.836	4.824	0.012	94	89978	1.00	0.9848	
32 1,1-Dichloroethane	63	5.080	5.074	0.006	96	110580	1.00	1.01	
33 Isopropyl ether	45	5.141	5.129	0.012	93	206284	1.00	1.00	
34 2-Chloro-1,3-butadiene	53	5.190	5.184	0.006	93	98492	1.00	0.99	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Tert-butyl ethyl ether	59	5.671	5.665	0.006	98	201628	1.00	1.01	
36 2-Butanone (MEK)	43	5.891	5.885	0.006	99	155637	10.0	10.0	
37 cis-1,2-Dichloroethene	96	5.927	5.915	0.012	84	63722	1.00	0.9802	
38 2,2-Dichloropropane	77	5.927	5.921	0.006	85	87880	1.00	0.9885	
40 Propionitrile	54	5.988	5.988	0.000	99	75221	20.0	18.3	
S 42 1,2-Dichloroethene, Total	100				0			1.96	
43 Methacrylonitrile	67	6.202	6.189	0.013	93	155324	10.0	10.1	
44 Chlorobromomethane	128	6.263	6.244	0.019	78	27419	1.00	0.9492	
45 Tetrahydrofuran	71	6.251	6.250	0.001	80	45139	10.0	10.1	
46 Chloroform	83	6.415	6.403	0.012	94	104144	1.00	1.00	
$ 47 Dibromofluoromethane (Surr)	113	6.629	6.622	0.007	93	518482	10.0	9.97	
48 1,1,1-Trichloroethane	97	6.629	6.622	0.007	44	90751	1.00	0.9854	
49 Cyclohexane	56	6.714	6.714	0.000	91	109442	1.00	0.99	
50 Carbon tetrachloride	117	6.836	6.830	0.006	97	76572	1.00	1.00	
51 1,1-Dichloropropene	75	6.848	6.842	0.006	96	84150	1.00	0.9835	
52 Isobutyl alcohol	41	7.025	7.031	-0.006	91	55836	50.0	50.8	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.086	7.080	0.006	0	108133	10.0	10.1	
54 Benzene	78	7.110	7.104	0.006	93	245502	1.00	0.99	
55 1,2-Dichloroethane	62	7.183	7.171	0.012	98	71667	1.00	0.9698	M
56 Tert-amyl methyl ether	73	7.305	7.299	0.006	98	176879	1.00	0.99	
* 57 Fluorobenzene (IS)	96	7.519	7.512	0.007	99	2195473	10.0	10.0	
58 n-Heptane	43	7.531	7.525	0.006	90	96761	1.00	0.9635	
59 n-Butanol	56	7.927	7.927	0.000	92	89995	100.0	96.5	
60 Trichloroethene	95	8.000	7.994	0.006	97	62611	1.00	1.00	
61 Methylcyclohexane	83	8.299	8.299	0.000	92	105184	1.00	0.9351	
62 1,2-Dichloropropane	63	8.336	8.335	0.001	95	62574	1.00	0.9766	
63 2-ethoxy-2-methyl butane	87	8.348	8.342	0.006	91	98701	1.00	0.99	
64 Methyl methacrylate	69	8.433	8.433	0.000	94	31053	1.00	1.00	
66 Dibromomethane	93	8.451	8.439	0.012	96	29994	1.00	1.00	
65 1,4-Dioxane	88	8.464	8.482	-0.018	32	10402	50.0	52.0	M
67 Dichlorobromomethane	83	8.689	8.689	0.000	99	73153	1.00	0.9863	
68 2-Nitropropane	41	8.976	8.969	0.007	99	99954	10.0	9.86	M
71 1-Bromo-2-chloroethane	63	9.085	9.079	0.006	99	57317	1.00	0.9404	
72 cis-1,3-Dichloropropene	75	9.250	9.250	0.000	95	91944	1.00	0.9595	
73 4-Methyl-2-pentanone (MIBK)	43	9.439	9.433	0.006	97	427068	10.0	9.98	
$ 74 Toluene-d8 (Surr)	98	9.567	9.561	0.006	94	2146383	10.0	9.91	
75 Toluene	92	9.646	9.640	0.006	98	157189	1.00	0.99	
76 trans-1,3-Dichloropropene	75	9.921	9.914	0.007	95	77480	1.00	0.9617	
78 Ethyl methacrylate	69	9.988	9.981	0.007	89	66038	1.00	0.9666	
S 77 1,3-Dichloropropene, Total	100				0			1.92	
79 1,1,2-Trichloroethane	97	10.128	10.122	0.006	92	42688	1.00	0.9711	
80 Tetrachloroethene	166	10.207	10.201	0.006	96	65949	1.00	0.9840	
81 1,3-Dichloropropane	76	10.292	10.292	0.000	94	77132	1.00	0.9827	
82 2-Hexanone	43	10.353	10.353	0.000	96	302584	10.0	9.66	
83 Chlorodibromomethane	129	10.506	10.506	0.000	90	46550	1.00	0.9416	
84 Ethylene Dibromide	107	10.616	10.615	0.001	98	41539	1.00	0.9795	
* 85 Chlorobenzene-d5 (IS)	117	11.061	11.060	0.001	87	1619173	10.0	10.0	
86 1-Chlorohexane	91	11.073	11.073	0.000	95	87814	1.00	0.9643	
87 Chlorobenzene	112	11.085	11.085	0.000	94	176620	1.00	0.99	
89 1,1,1,2-Tetrachloroethane	131	11.170	11.170	0.000	92	56719	1.00	0.9534	
90 Ethylbenzene	91	11.176	11.176	0.000	98	304702	1.00	0.9882	
S 88 Xylenes, Total	106				0			2.95	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
91 m-Xylene & p-Xylene	106	11.292	11.292	0.000	99	236059	2.00	1.97	
92 o-Xylene	106	11.628	11.627	0.001	97	116267	1.00	0.9766	
93 Styrene	104	11.646	11.646	0.000	95	192033	1.00	0.9664	
94 Bromoform	173	11.804	11.804	0.000	95	25830	1.00	0.9191	
95 Isopropylbenzene	105	11.932	11.932	0.000	96	304935	1.00	0.9878	
$ 98 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	88	820392	10.0	9.89	
99 1,1,2,2-Tetrachloroethane	83	12.188	12.188	0.000	94	55717	1.00	1.01	
100 Bromobenzene	156	12.195	12.194	0.000	96	74343	1.00	1.00	
101 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	96	160817	10.0	9.96	
102 1,2,3-Trichloropropane	110	12.231	12.231	0.000	80	14947	1.00	1.00	
103 N-Propylbenzene	91	12.268	12.268	0.000	99	359813	1.00	1.00	
104 2-Chlorotoluene	126	12.341	12.341	0.000	96	73314	1.00	0.9853	
105 1,3,5-Trimethylbenzene	105	12.408	12.408	0.000	94	263579	1.00	1.00	
106 4-Chlorotoluene	126	12.438	12.438	0.000	98	77916	1.00	1.00	
107 tert-Butylbenzene	134	12.652	12.646	0.006	93	55767	1.00	0.9796	
108 Pentachloroethane	167	12.682	12.682	0.000	88	36271	1.00	0.8846	
109 1,2,4-Trimethylbenzene	105	12.694	12.694	0.000	97	266991	1.00	0.9798	
110 sec-Butylbenzene	105	12.816	12.816	0.000	94	340967	1.00	1.01	
111 1,3-Dichlorobenzene	146	12.914	12.914	0.000	98	147971	1.00	1.01	
112 4-Isopropyltoluene	119	12.926	12.926	0.000	97	291744	1.00	0.99	
* 113 1,4-Dichlorobenzene-d4	152	12.969	12.969	0.000	96	873073	10.0	10.0	
114 1,4-Dichlorobenzene	146	12.987	12.987	0.000	95	150524	1.00	1.00	
115 1,2,3-Trimethylbenzene	120	12.999	12.999	0.000	99	114621	1.00	0.9465	
116 Benzyl chloride	126	13.072	13.072	0.000	99	19132	1.00	0.9296	
119 n-Butylbenzene	92	13.219	13.219	0.000	97	146017	1.00	0.9760	
120 1,2-Dichlorobenzene	146	13.249	13.249	0.000	97	139116	1.00	1.01	
118 p-Diethylbenzene	119	13.274	13.273	0.001	86	141712	1.00	0.9451	
123 1,2-Dibromo-3-Chloropropane	155	13.804	13.804	0.000	83	7365	1.00	0.9651	
124 1,3,5-Trichlorobenzene	180	13.926	13.926	0.000	97	119040	1.00	0.9888	
125 1,2,4-Trichlorobenzene	180	14.359	14.353	0.006	94	106787	1.00	0.9873	
126 Hexachlorobutadiene	225	14.438	14.438	0.000	98	52061	1.00	1.01	
127 Naphthalene	128	14.542	14.535	0.007	97	189574	1.00	0.9720	
128 1,2,3-Trichlorobenzene	180	14.682	14.682	0.000	95	95061	1.00	0.9888	
129 2-Methylnaphthalene	142	15.310	15.304	0.006	92	124496	1.00	0.9223	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00041	Amount Added:	2.00	Units: uL	
MSV_RV4_826_00047	Amount Added:	2.00	Units: uL	
MSV_RV4GAS826_00118	Amount Added:	2.00	Units: uL	
MSV_HP25_ISSS_00023	Amount Added:	1.00	Units: uL	Run Reagent

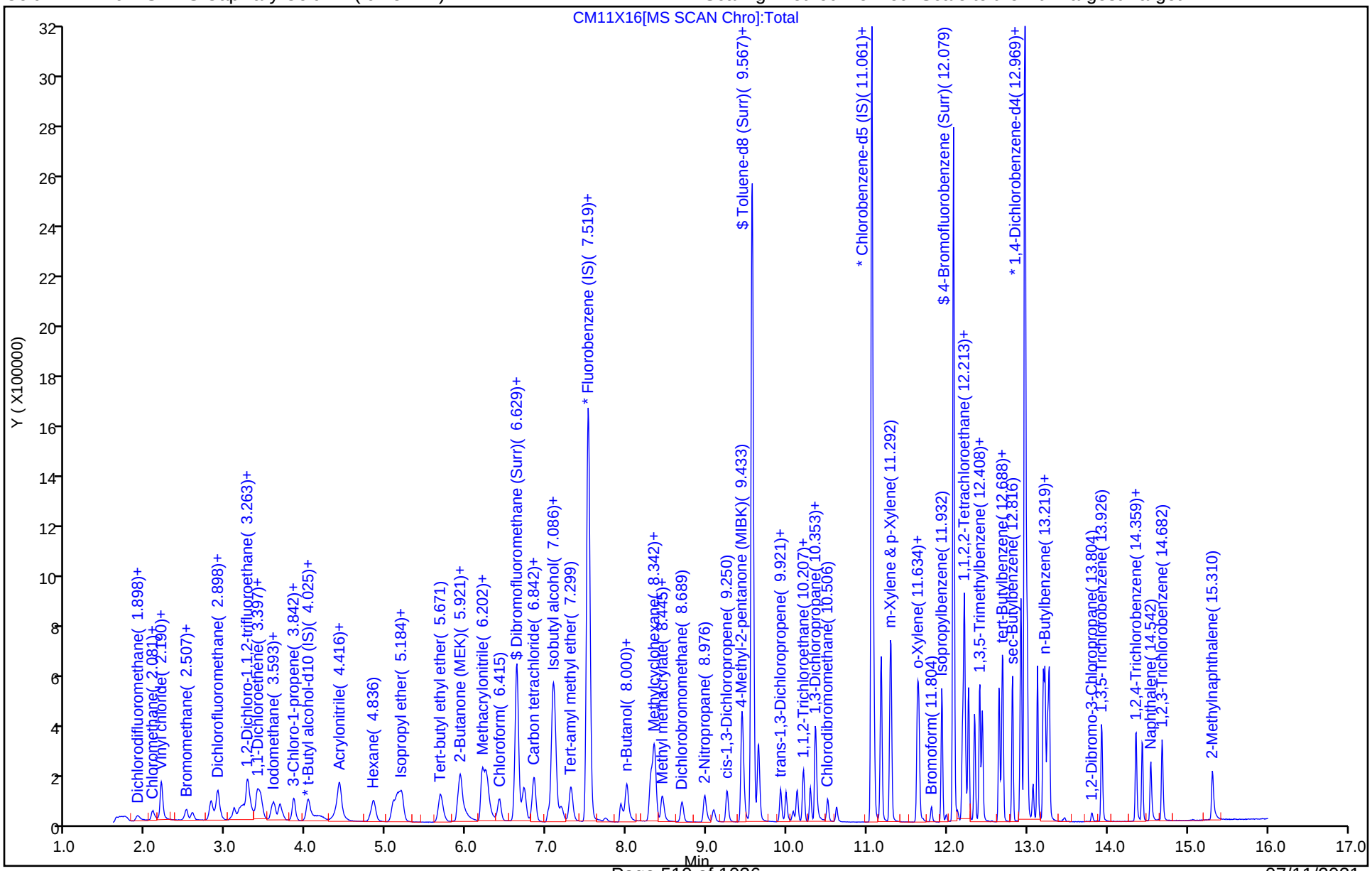
Report Date: 23-Mar-2021 16:56:27 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X16.D

Injection Date:	11-Mar-2021 20:55:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	IC STD1 Lg			Worklist Smp#:	16
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

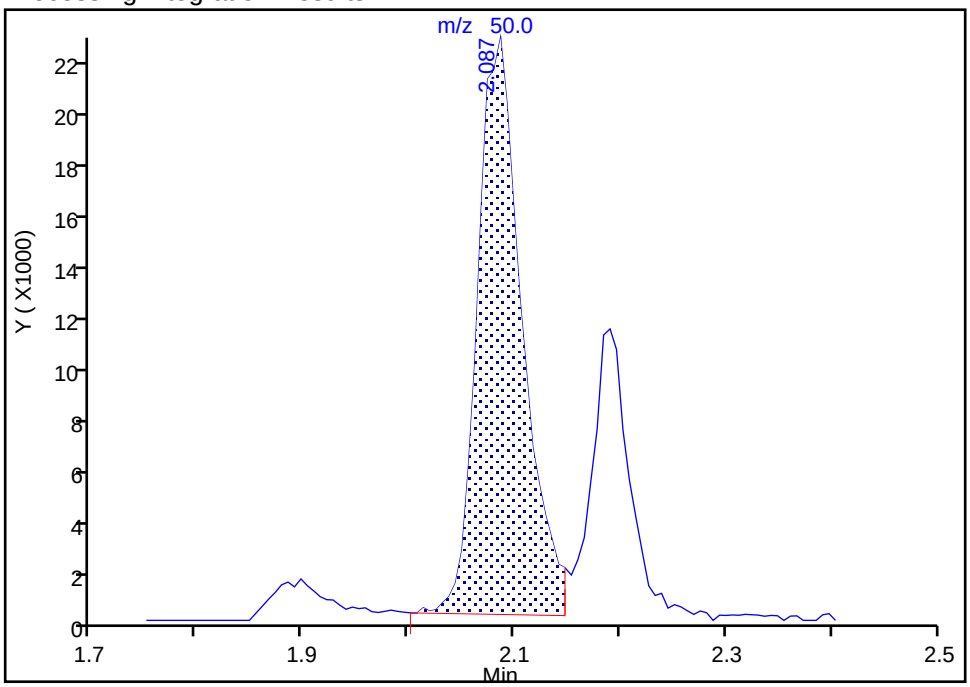
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X16.D				
Injection Date:	11-Mar-2021 20:55:30	Instrument ID:	10193		
Lims ID:	IC STD1 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

3 Chloromethane, CAS: 74-87-3

Signal: 1

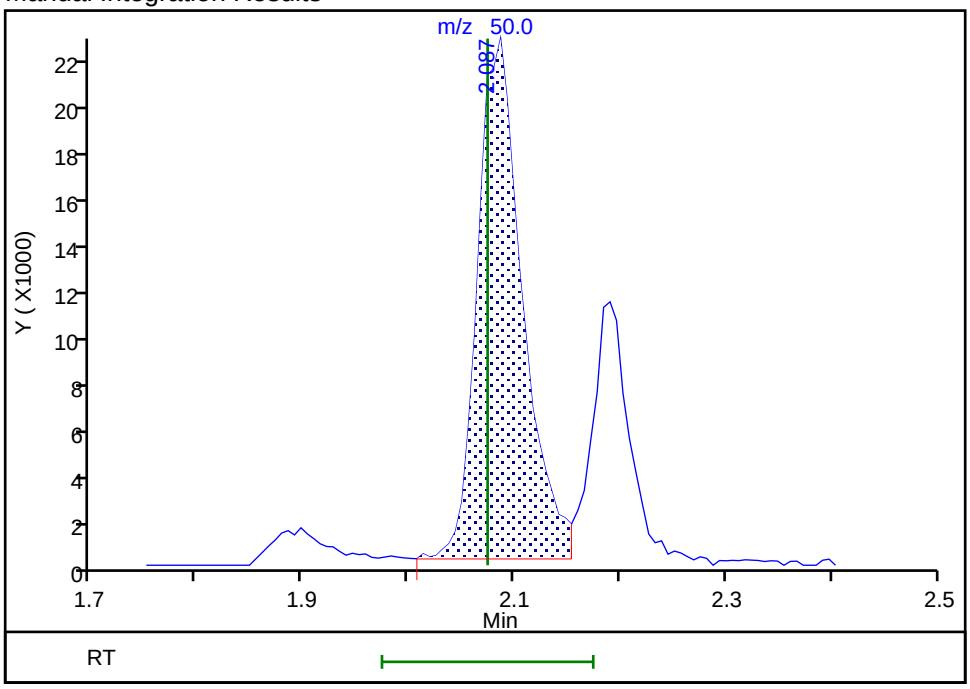
Processing Integration Results

RT: 2.09
Area: 65929
Amount: 0.736284
Amount Units: ug/l



Manual Integration Results

RT: 2.09
Area: 66165
Amount: 0.923215
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:21:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

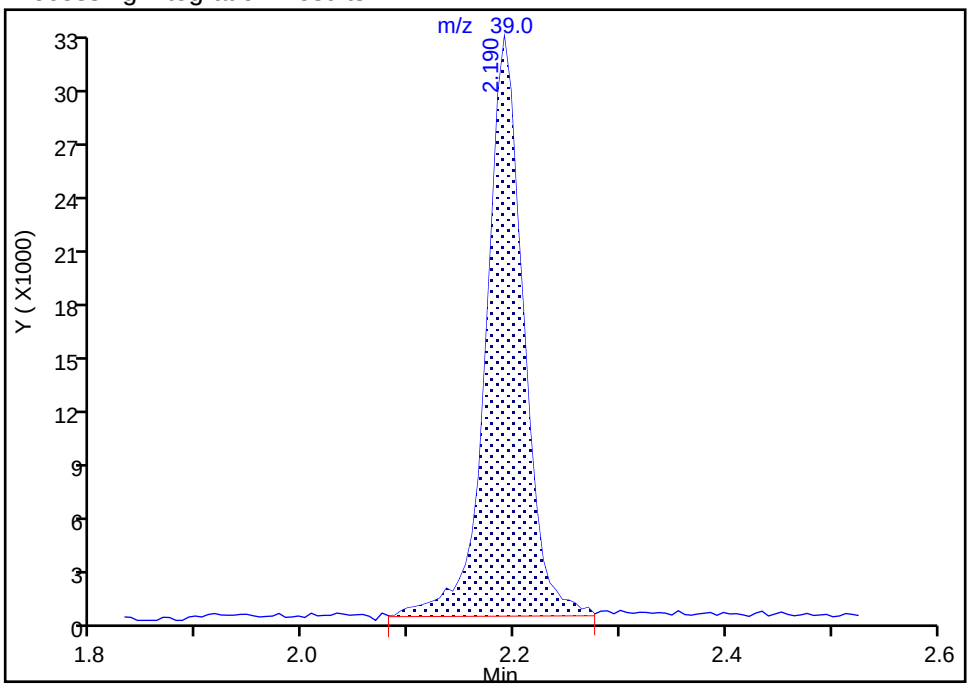
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X16.D
Injection Date: 11-Mar-2021 20:55:30 Instrument ID: 10193
Lims ID: IC STD1 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

4 Butadiene, CAS: 106-99-0

Signal: 1

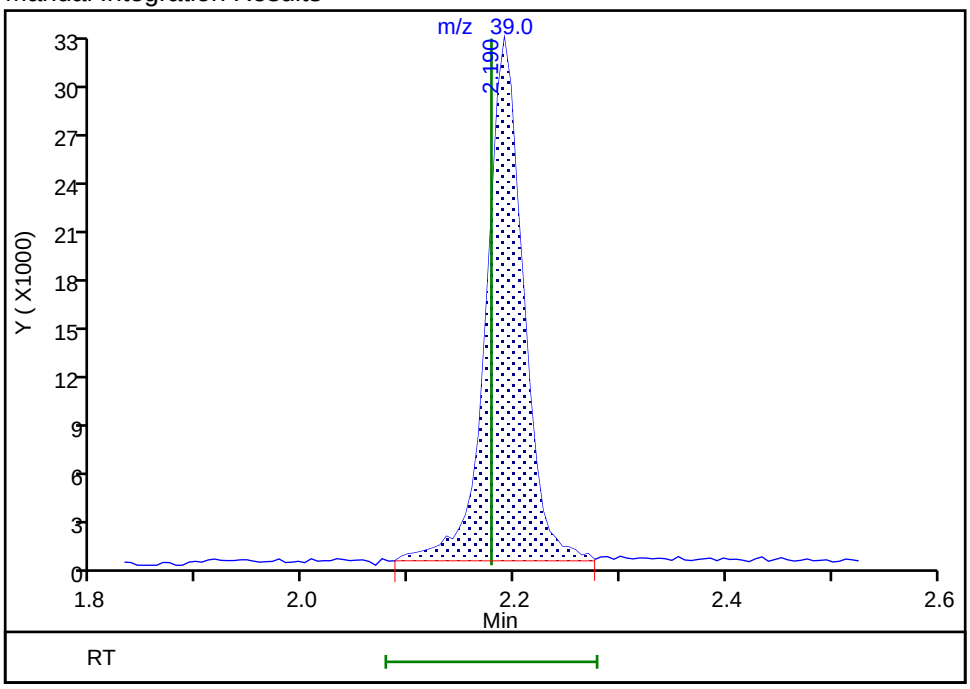
Processing Integration Results

RT: 2.19
Area: 78478
Amount: 1.035009
Amount Units: ug/l



Manual Integration Results

RT: 2.19
Area: 77994
Amount: 0.991524
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:21:57
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

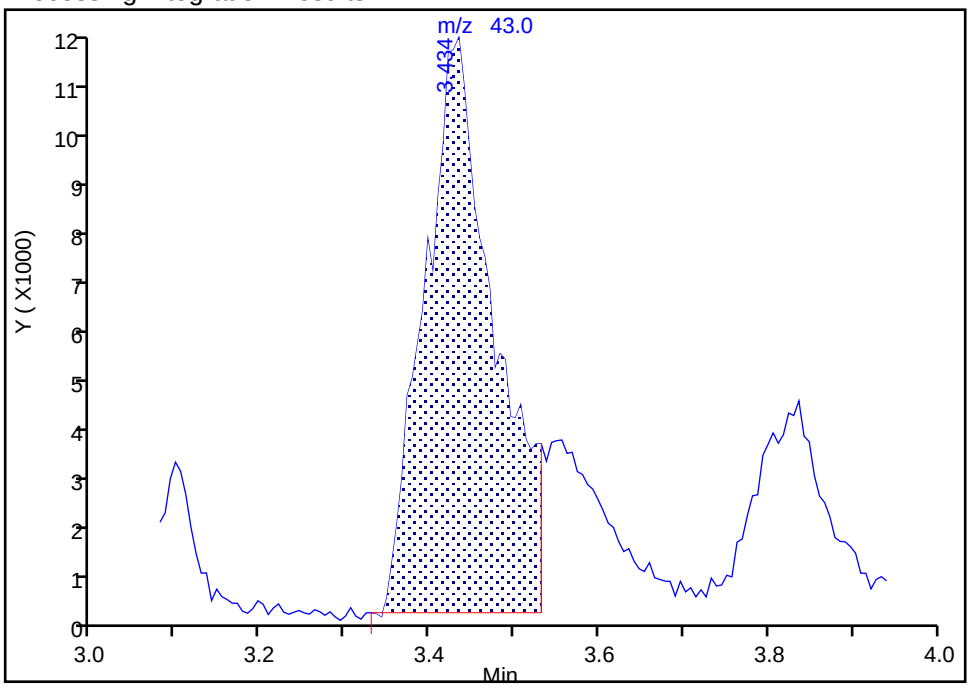
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X16.D				
Injection Date:	11-Mar-2021 20:55:30	Instrument ID:	10193		
Lims ID:	IC STD1 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

16 Acetone, CAS: 67-64-1

Signal: 1

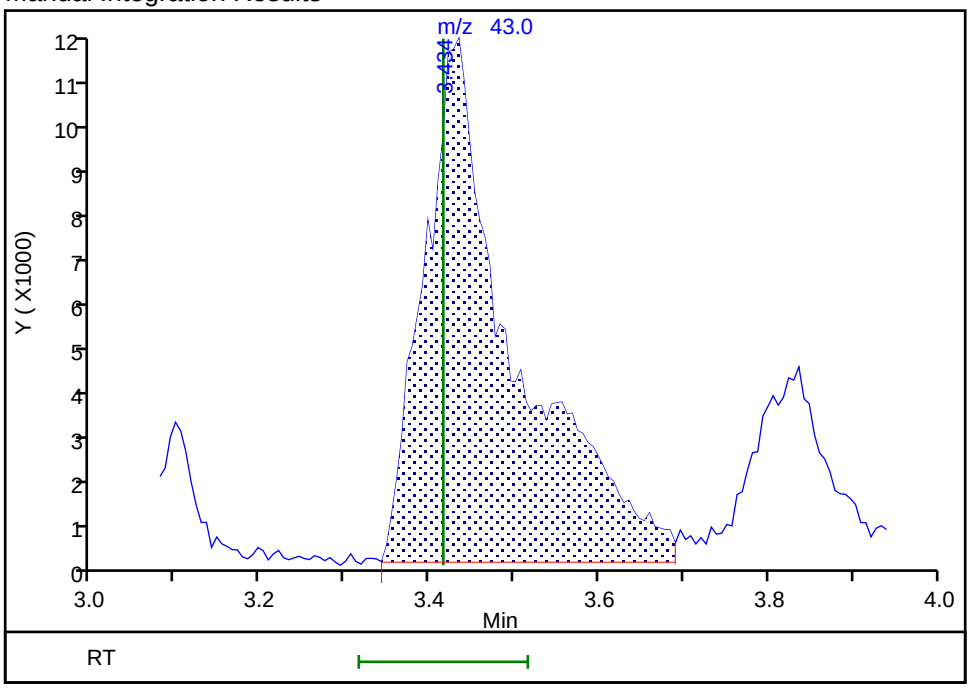
Processing Integration Results

RT: 3.43
Area: 61268
Amount: 8.659206
Amount Units: ug/l



Manual Integration Results

RT: 3.43
Area: 79397
Amount: 10.375573
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:22:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

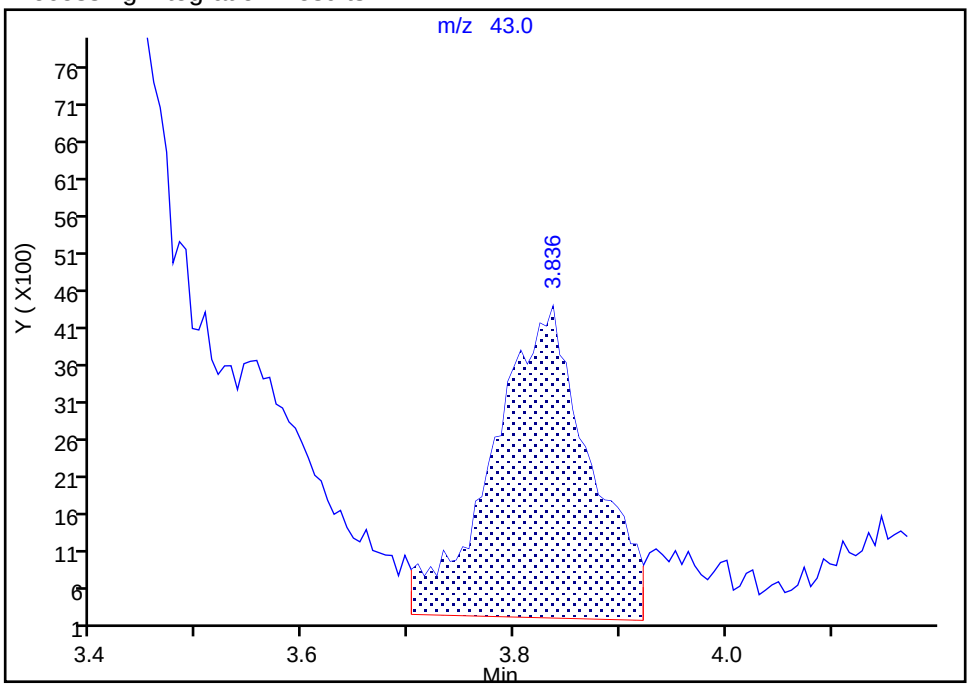
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X16.D				
Injection Date:	11-Mar-2021 20:55:30	Instrument ID:	10193		
Lims ID:	IC STD1 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

22 Methyl acetate, CAS: 79-20-9

Signal: 1

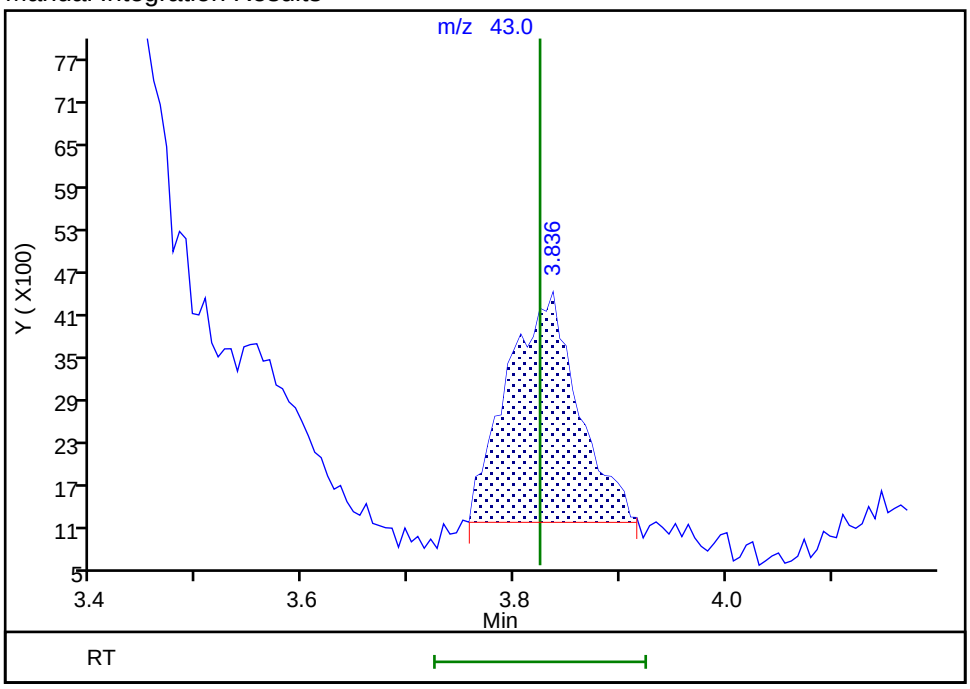
Processing Integration Results

RT: 3.84
Area: 26679
Amount: 1.309079
Amount Units: ug/l



Manual Integration Results

RT: 3.84
Area: 15090
Amount: 0.899337
Amount Units: ug/l



Reviewer: knouses, 23-Mar-2021 12:23:35
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

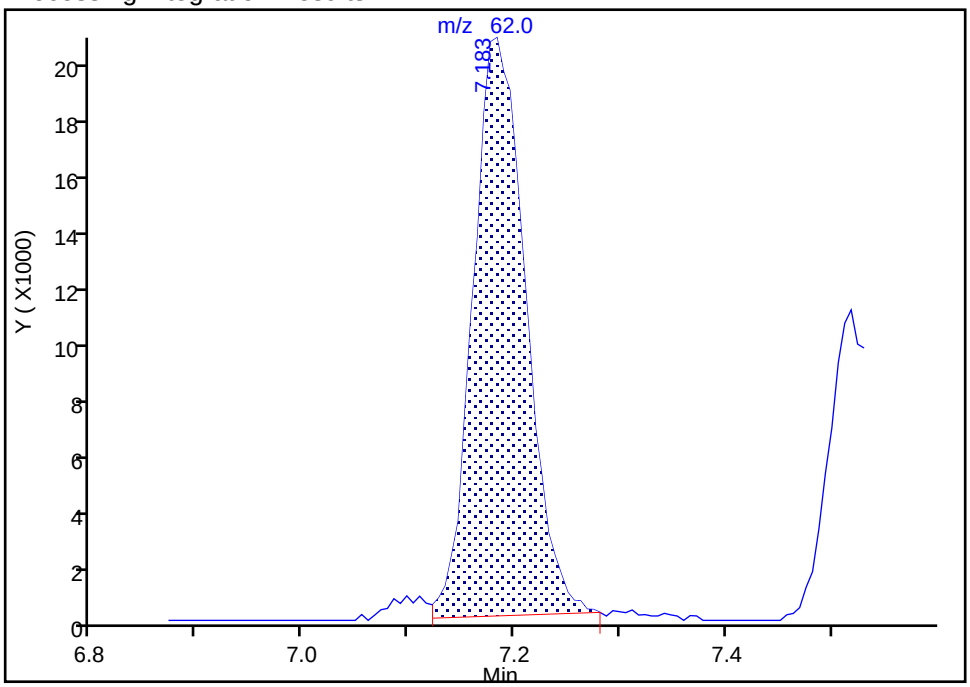
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X16.D				
Injection Date:	11-Mar-2021 20:55:30	Instrument ID:	10193		
Lims ID:	IC STD1 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

55 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

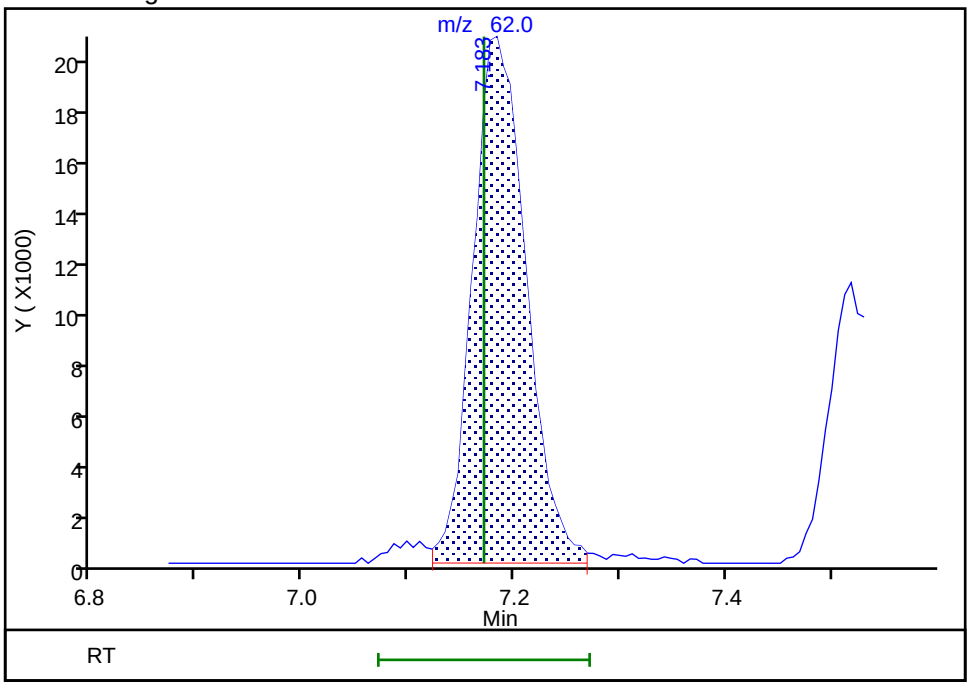
Processing Integration Results

RT: 7.18
Area: 70205
Amount: 0.944684
Amount Units: ug/l



Manual Integration Results

RT: 7.18
Area: 71667
Amount: 0.969830
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:24:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

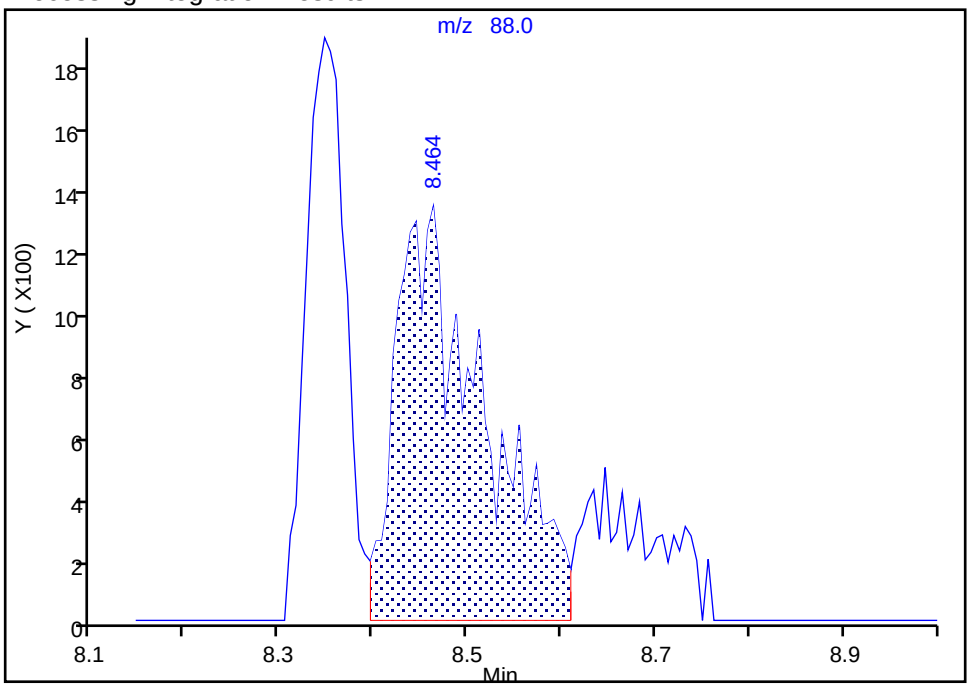
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X16.D				
Injection Date:	11-Mar-2021 20:55:30	Instrument ID:	10193		
Lims ID:	IC STD1 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

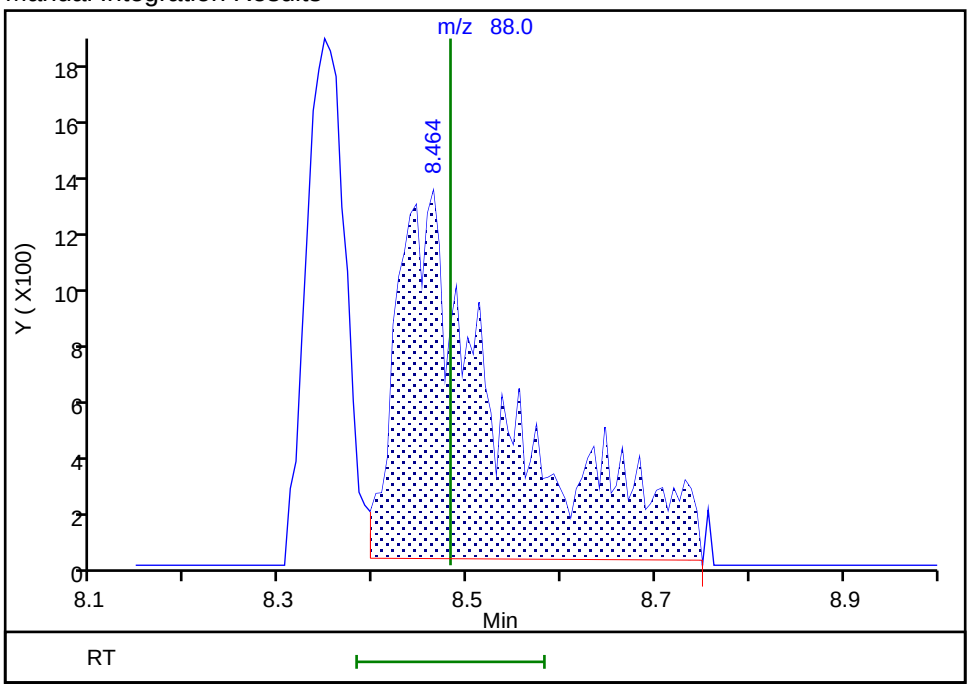
Processing Integration Results

RT: 8.46
Area: 8534
Amount: 55.063158
Amount Units: ug/l



Manual Integration Results

RT: 8.46
Area: 10402
Amount: 52.037127
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:25:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

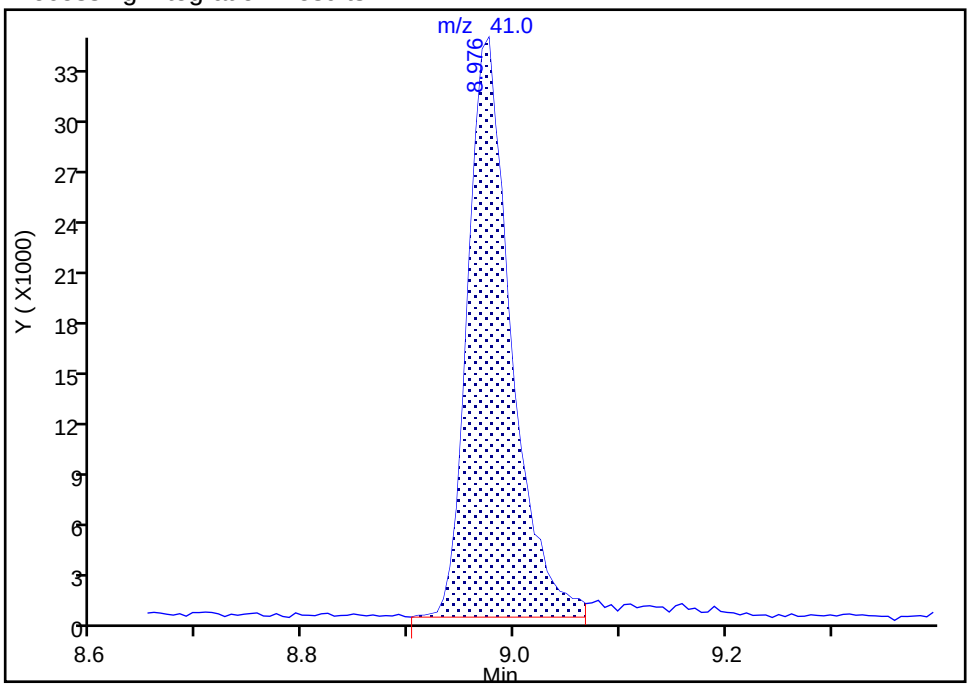
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X16.D				
Injection Date:	11-Mar-2021 20:55:30	Instrument ID:	10193		
Lims ID:	IC STD1 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 2-Nitropropane, CAS: 79-46-9

Signal: 1

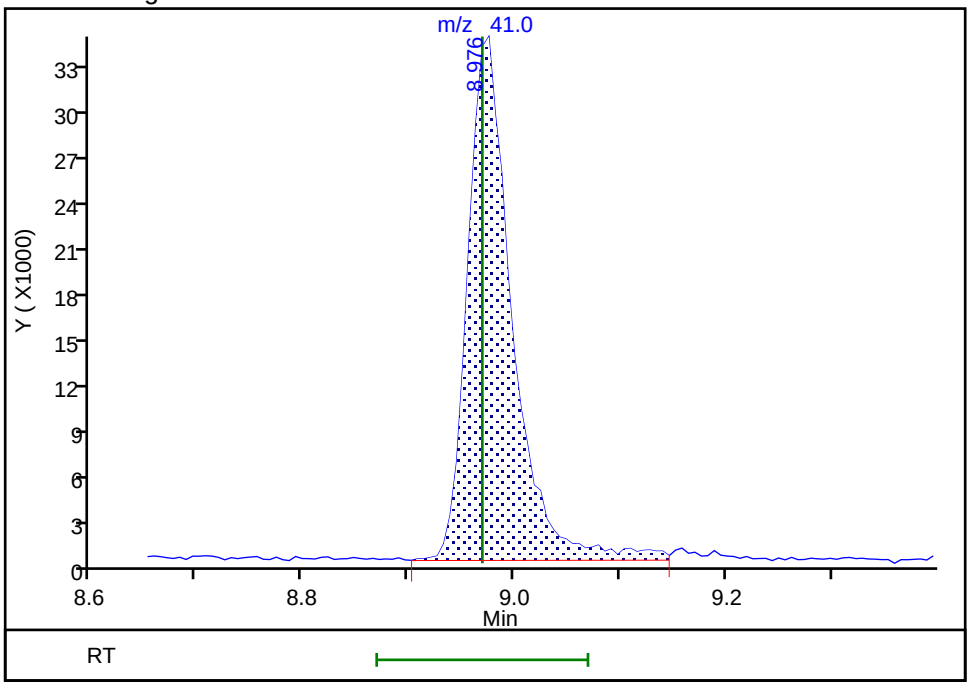
Processing Integration Results

RT: 8.98
Area: 96851
Amount: 9.806250
Amount Units: ug/l



Manual Integration Results

RT: 8.98
Area: 99954
Amount: 9.856110
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:26:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D
Lims ID: IC STD.5 Lg
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-Mar-2021 21:18:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023820-017
Misc. Info.: IC STD.5 LG
Operator ID: SRK36897 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 23-Mar-2021 16:56:39 Calib Date: 11-Mar-2021 21:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1638

First Level Reviewer: knouses Date: 12-Mar-2021 09:43:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.873	1.879	-0.006	99	26325	0.5000	0.4556	
3 Chloromethane	50	2.074	2.074	0.000	98	35701	0.5000	0.5001	
4 Butadiene	39	2.184	2.178	0.006	93	42056	0.5000	0.5367	M
5 Vinyl chloride	62	2.184	2.184	0.000	69	31326	0.5000	0.4803	M
6 Bromomethane	94	2.495	2.489	0.006	91	23670	0.5000	0.5047	M
7 Chloroethane	64	2.568	2.562	0.006	99	20758	0.5000	0.4858	
8 Dichlorofluoromethane	67	2.800	2.800	0.000	97	47511	0.5000	0.4826	
9 Trichlorofluoromethane	101	2.861	2.861	0.000	97	42470	0.5000	0.4776	
11 Ethyl ether	59	3.086	3.086	0.000	92	25522	0.5001	0.5290	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.184	3.172	0.012	94	36027	0.5000	0.5170	
13 Acrolein	56	3.257	3.257	0.000	98	175965	25.0	26.3	
14 1,1-Dichloroethene	96	3.379	3.379	0.000	96	25908	0.5000	0.5163	
15 112TCTFE	101	3.422	3.410	0.012	92	28545	0.5000	0.5225	
16 Acetone	43	3.422	3.416	0.006	77	39833	5.00	5.04	M
17 Iodomethane	142	3.568	3.562	0.006	100	49816	0.5000	0.5080	
18 Isopropyl alcohol	45	3.550	3.586	-0.036	29	21348	10.0	11.4	
19 Ethyl bromide	108	3.592	3.592	0.000	98	22324	0.5002	0.5306	
20 Carbon disulfide	76	3.660	3.659	0.001	99	85582	0.5000	0.4994	
22 Methyl acetate	43	3.818	3.824	-0.006	25	8102	0.5000	0.4676	M
23 3-Chloro-1-propene	41	3.836	3.830	0.006	90	48201	0.5000	0.5194	
24 Methylene Chloride	84	4.013	4.007	0.006	95	28496	0.5000	0.5058	
* 25 t-Butyl alcohol-d10 (IS)	65	4.044	4.050	-0.006	0	171087	50.0	50.0	
26 2-Methyl-2-propanol	59	4.178	4.165	0.013	95	33022	10.0	10.8	
27 Acrylonitrile	53	4.361	4.354	0.007	92	28985	2.50	2.58	
28 Methyl tert-butyl ether	73	4.403	4.391	0.012	97	84164	0.5000	0.5083	
29 trans-1,2-Dichloroethene	96	4.409	4.403	0.006	96	29304	0.5000	0.5089	
30 Hexane	57	4.830	4.824	0.006	94	47320	0.5000	0.5199	
32 1,1-Dichloroethane	63	5.080	5.074	0.006	96	54906	0.5000	0.5036	
33 Isopropyl ether	45	5.135	5.129	0.006	92	103081	0.5000	0.5023	
34 2-Chloro-1,3-butadiene	53	5.184	5.184	0.000	93	49154	0.5000	0.4970	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Tert-butyl ethyl ether	59	5.671	5.665	0.006	98	100234	0.5000	0.5019	
36 2-Butanone (MEK)	43	5.891	5.885	0.006	99	78803	5.00	4.91	M
37 cis-1,2-Dichloroethene	96	5.915	5.915	0.000	83	33468	0.5000	0.5168	
38 2,2-Dichloropropane	77	5.927	5.921	0.006	68	44691	0.5000	0.5047	
40 Propionitrile	54	5.982	5.988	-0.006	98	38100	10.0	9.00	
S 42 1,2-Dichloroethene, Total	100				0			1.03	
43 Methacrylonitrile	67	6.202	6.189	0.013	92	78755	5.00	4.97	M
44 Chlorobromomethane	128	6.244	6.244	0.000	82	15433	0.5000	0.5364	
45 Tetrahydrofuran	71	6.257	6.250	0.007	80	23156	5.00	5.01	
46 Chloroform	83	6.403	6.403	0.000	94	53577	0.5000	0.5139	
$ 47 Dibromofluoromethane (Surr)	113	6.622	6.622	0.000	93	518402	10.0	10.0	
48 1,1,1-Trichloroethane	97	6.622	6.622	0.000	40	47924	0.5000	0.5224	
49 Cyclohexane	56	6.720	6.714	0.006	92	55219	0.5000	0.5036	
50 Carbon tetrachloride	117	6.830	6.830	0.000	94	38434	0.5000	0.5021	
51 1,1-Dichloropropene	75	6.842	6.842	0.000	96	43115	0.5000	0.5058	
52 Isobutyl alcohol	41	7.025	7.031	-0.006	92	27067	25.0	23.8	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.073	7.080	-0.007	0	107097	10.0	10.0	
54 Benzene	78	7.104	7.104	0.000	95	127165	0.5000	0.5148	
55 1,2-Dichloroethane	62	7.183	7.171	0.012	97	38607	0.5000	0.5245	
56 Tert-amyl methyl ether	73	7.299	7.299	0.000	98	90424	0.5000	0.5086	
* 57 Fluorobenzene (IS)	96	7.512	7.512	0.000	98	2186974	10.0	10.0	
58 n-Heptane	43	7.519	7.525	-0.006	38	49882	0.5000	0.4986	
59 n-Butanol	56	7.939	7.927	0.012	89	45459	50.0	47.2	
60 Trichloroethene	95	8.000	7.994	0.006	98	31990	0.5000	0.5110	
61 Methylcyclohexane	83	8.299	8.299	0.000	92	56435	0.5000	0.5036	
62 1,2-Dichloropropane	63	8.329	8.335	-0.006	93	32475	0.5000	0.5088	
63 2-ethoxy-2-methyl butane	87	8.342	8.342	0.000	90	49965	0.5000	0.5038	
64 Methyl methacrylate	69	8.445	8.433	0.012	92	15099	0.5000	0.4711	
66 Dibromomethane	93	8.445	8.439	0.006	88	14702	0.5000	0.4933	
65 1,4-Dioxane	88	8.439	8.482	-0.043	31	6141	25.0	29.7	M
67 Dichlorobromomethane	83	8.689	8.689	0.000	99	36245	0.5000	0.4906	
68 2-Nitropropane	41	8.976	8.969	0.007	99	45053	5.00	4.30	
71 1-Bromo-2-chloroethane	63	9.085	9.079	0.006	98	31800	0.5000	0.5238	
72 cis-1,3-Dichloropropene	75	9.250	9.250	0.000	94	46348	0.5000	0.4855	
73 4-Methyl-2-pentanone (MIBK)	43	9.439	9.433	0.006	98	212989	5.00	4.82	
$ 74 Toluene-d8 (Surr)	98	9.567	9.561	0.006	94	2161262	10.0	10.0	
75 Toluene	92	9.646	9.640	0.006	97	79287	0.5000	0.5037	
76 trans-1,3-Dichloropropene	75	9.920	9.914	0.006	95	37981	0.5000	0.4735	
78 Ethyl methacrylate	69	9.988	9.981	0.007	90	30786	0.5000	0.4526	
S 77 1,3-Dichloropropene, Total	100				0			0.9591	
79 1,1,2-Trichloroethane	97	10.128	10.122	0.006	91	22332	0.5000	0.5103	
80 Tetrachloroethene	166	10.207	10.201	0.006	96	34486	0.5000	0.5169	
81 1,3-Dichloropropane	76	10.292	10.292	0.000	94	39064	0.5000	0.4999	
82 2-Hexanone	43	10.359	10.353	0.006	98	153300	5.00	4.74	M
83 Chlorodibromomethane	129	10.512	10.506	0.006	89	23068	0.5000	0.4687	
84 Ethylene Dibromide	107	10.622	10.615	0.007	98	20961	0.5000	0.4965	M
* 85 Chlorobenzene-d5 (IS)	117	11.061	11.060	0.000	87	1612013	10.0	10.0	
86 1-Chlorohexane	91	11.073	11.073	0.000	97	46860	0.5000	0.5169	
87 Chlorobenzene	112	11.085	11.085	0.000	94	90818	0.5000	0.5116	
89 1,1,1,2-Tetrachloroethane	131	11.170	11.170	0.000	93	28551	0.5000	0.4821	
90 Ethylbenzene	91	11.176	11.176	0.000	99	153300	0.5000	0.4994	
S 88 Xylenes, Total	106				0			1.51	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
91 m-Xylene & p-Xylene	106	11.292	11.292	0.000	99	119625	1.00	1.00	
92 o-Xylene	106	11.627	11.627	0.000	96	59355	0.5000	0.5008	
93 Styrene	104	11.646	11.646	0.000	95	97913	0.5000	0.4949	
94 Bromoform	173	11.804	11.804	0.000	95	12929	0.5000	0.4621	
95 Isopropylbenzene	105	11.932	11.932	0.000	96	154456	0.5000	0.5026	
$ 98 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	89	824527	10.0	9.98	
99 1,1,2,2-Tetrachloroethane	83	12.188	12.188	0.000	93	27999	0.5000	0.5078	
100 Bromobenzene	156	12.194	12.194	0.000	96	37632	0.5000	0.5070	
101 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	95	76366	5.00	4.73	
102 1,2,3-Trichloropropane	110	12.231	12.231	0.000	80	7579	0.5000	0.5087	
103 N-Propylbenzene	91	12.268	12.268	0.000	99	184191	0.5000	0.5128	
104 2-Chlorotoluene	126	12.341	12.341	0.000	96	38280	0.5000	0.5148	
105 1,3,5-Trimethylbenzene	105	12.408	12.408	0.000	94	131460	0.5000	0.4995	
106 4-Chlorotoluene	126	12.438	12.438	0.000	98	40898	0.5000	0.5256	
107 tert-Butylbenzene	134	12.652	12.646	0.006	93	28261	0.5000	0.4968	
108 Pentachloroethane	167	12.682	12.682	0.000	76	20143	0.5000	0.4916	
109 1,2,4-Trimethylbenzene	105	12.694	12.694	0.000	98	137851	0.5000	0.5062	
110 sec-Butylbenzene	105	12.816	12.816	0.000	94	168319	0.5000	0.4990	
111 1,3-Dichlorobenzene	146	12.914	12.914	0.000	97	72929	0.5000	0.4974	
112 4-Isopropyltoluene	119	12.926	12.926	0.000	98	146440	0.5000	0.4997	
* 113 1,4-Dichlorobenzene-d4	152	12.969	12.969	0.000	96	872465	10.0	10.0	
114 1,4-Dichlorobenzene	146	12.987	12.987	0.000	93	76222	0.5000	0.5060	
115 1,2,3-Trimethylbenzene	120	12.999	12.999	0.000	98	62634	0.5000	0.5176	
116 Benzyl chloride	126	13.072	13.072	0.000	99	8712	0.5000	0.4236	
119 n-Butylbenzene	92	13.219	13.219	0.000	98	72265	0.5000	0.4833	
120 1,2-Dichlorobenzene	146	13.255	13.249	0.006	97	69431	0.5000	0.5027	
118 p-Diethylbenzene	119	13.273	13.273	0.000	86	79873	0.5000	0.5330	
123 1,2-Dibromo-3-Chloropropane	155	13.810	13.804	0.006	81	3514	0.5000	0.4608	M
124 1,3,5-Trichlorobenzene	180	13.932	13.926	0.006	97	61216	0.5000	0.5088	
125 1,2,4-Trichlorobenzene	180	14.359	14.353	0.006	94	54089	0.5000	0.5004	
126 Hexachlorobutadiene	225	14.438	14.438	0.000	97	26251	0.5000	0.5113	
127 Naphthalene	128	14.548	14.535	0.013	97	95674	0.5000	0.4909	
128 1,2,3-Trichlorobenzene	180	14.688	14.682	0.006	96	48128	0.5000	0.5010	
129 2-Methylnaphthalene	142	15.316	15.304	0.012	91	66474	0.5000	0.4928	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00041	Amount Added:	2.00	Units: uL	
MSV_RV4_826_00047	Amount Added:	2.00	Units: uL	
MSV_RV4GAS826_00118	Amount Added:	2.00	Units: uL	
MSV_HP25_ISSS_00023	Amount Added:	1.00	Units: uL	Run Reagent

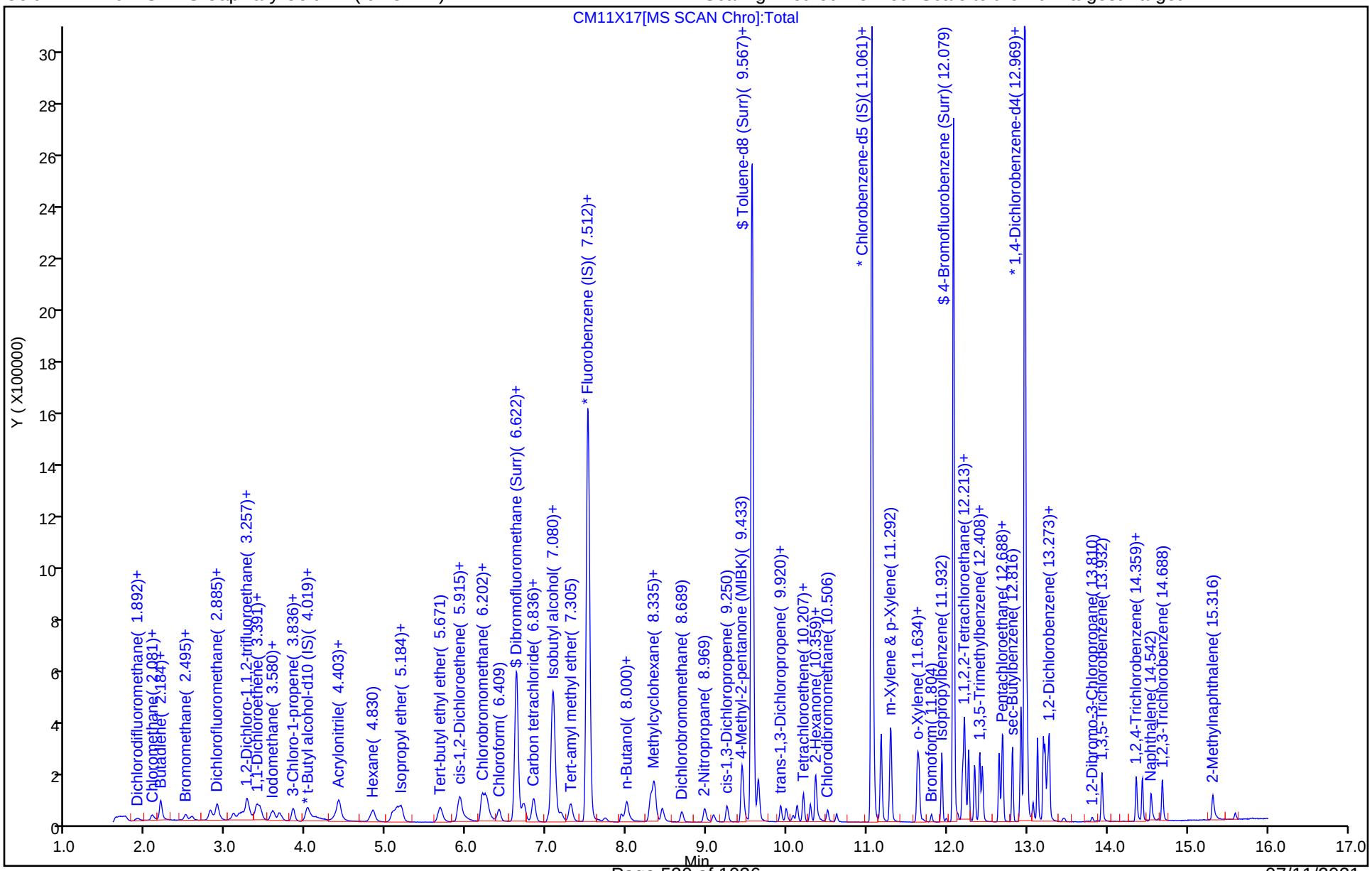
Report Date: 23-Mar-2021 16:56:41 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D

Injection Date:	11-Mar-2021 21:18:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	IC STD.5 Lg			Worklist Smp#:	17
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

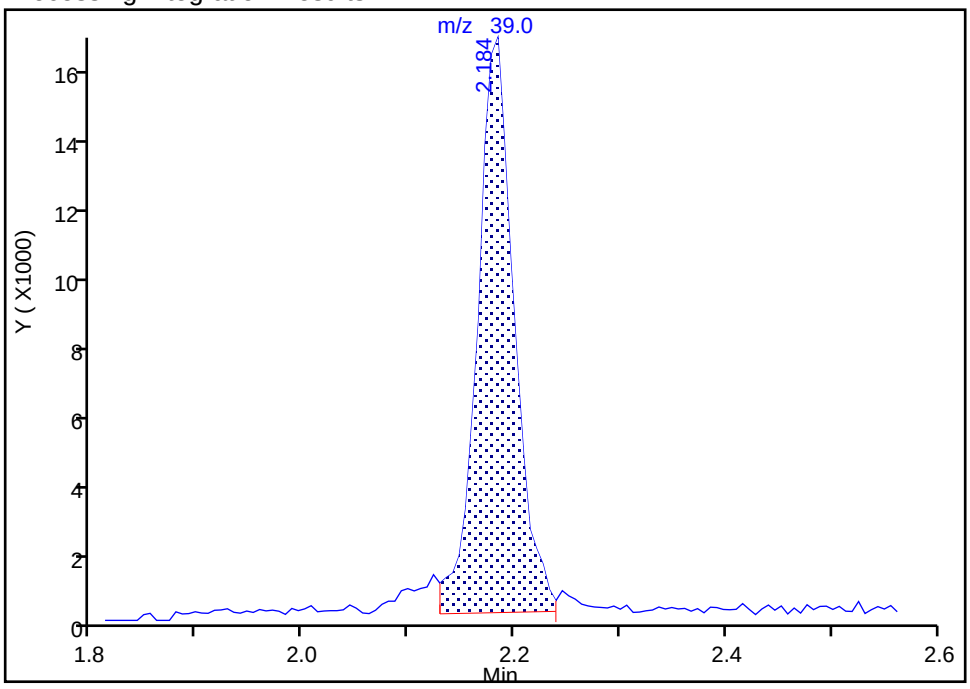
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D				
Injection Date:	11-Mar-2021 21:18:30	Instrument ID:	10193		
Lims ID:	IC STD.5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

4 Butadiene, CAS: 106-99-0

Signal: 1

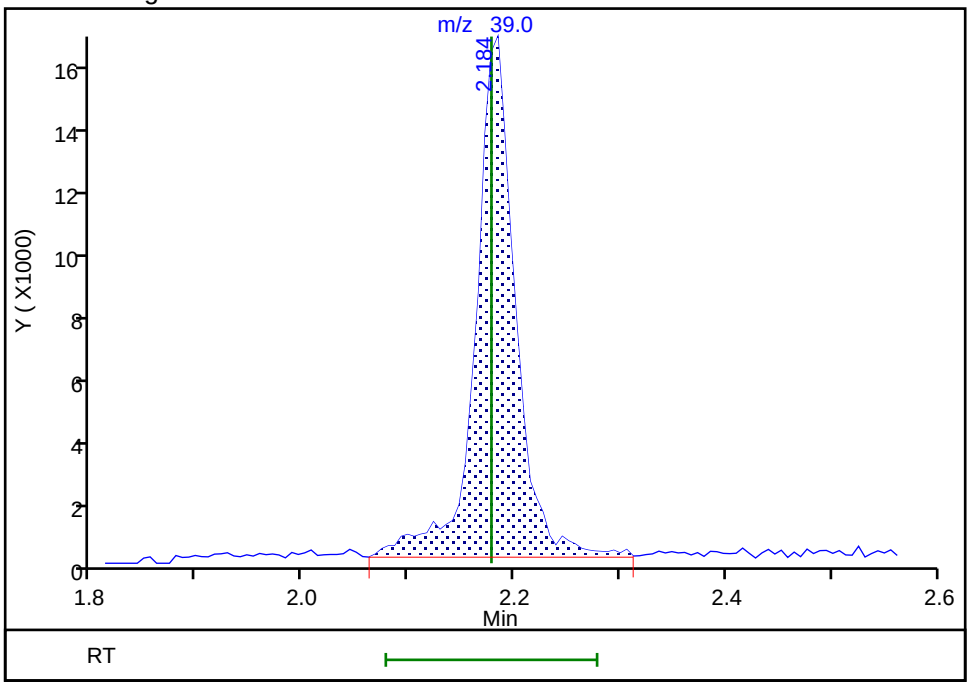
Processing Integration Results

RT: 2.18
Area: 38680
Amount: 0.499796
Amount Units: ug/l



Manual Integration Results

RT: 2.18
Area: 42056
Amount: 0.536729
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:10:09

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

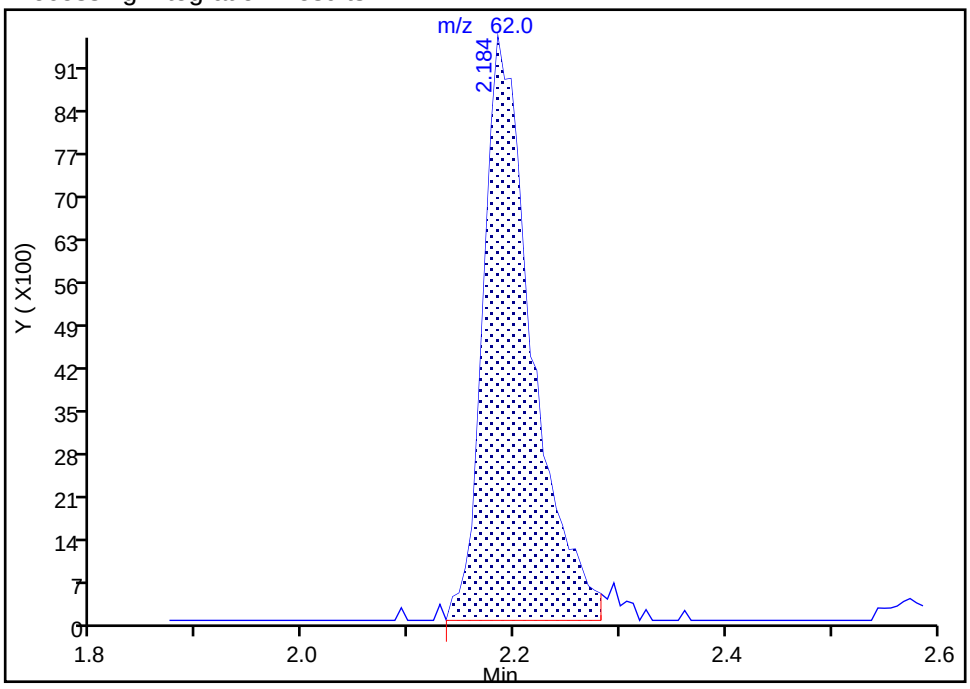
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D				
Injection Date:	11-Mar-2021 21:18:30	Instrument ID:	10193		
Lims ID:	IC STD.5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

5 Vinyl chloride, CAS: 75-01-4

Signal: 1

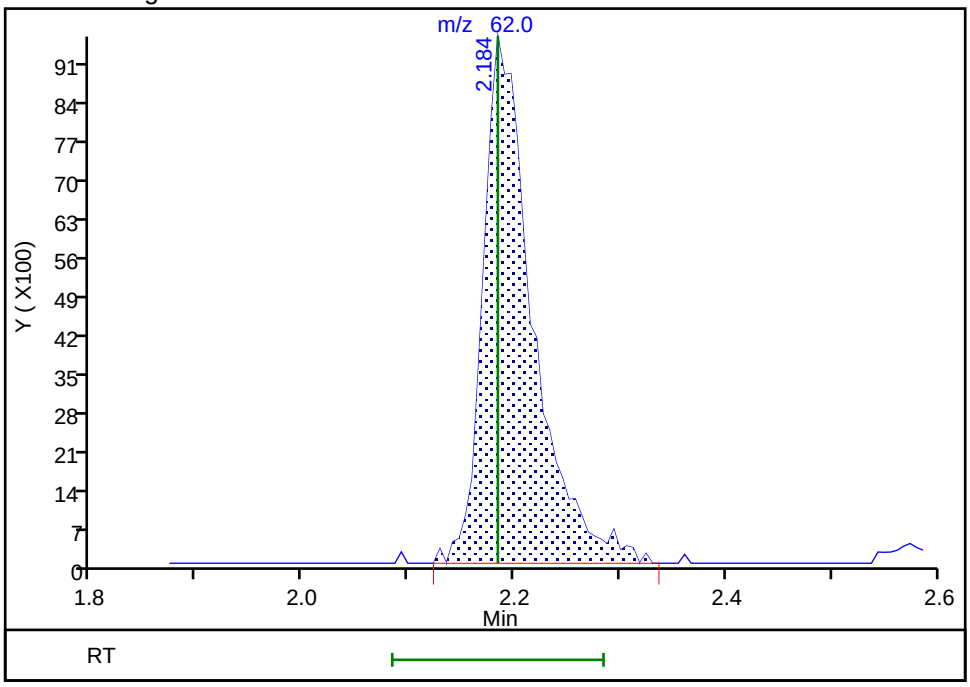
Processing Integration Results

RT: 2.18
Area: 30508
Amount: 0.375569
Amount Units: ug/l



Manual Integration Results

RT: 2.18
Area: 31326
Amount: 0.480322
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:12:22

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

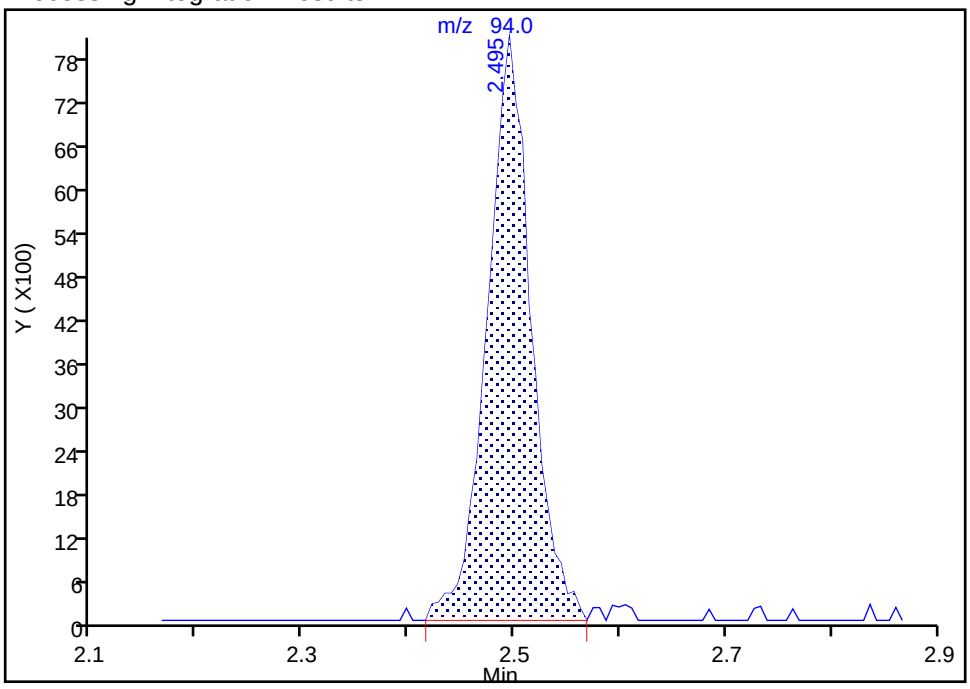
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D
Injection Date: 11-Mar-2021 21:18:30 Instrument ID: 10193
Lims ID: IC STD.5 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

6 Bromomethane, CAS: 74-83-9

Signal: 1

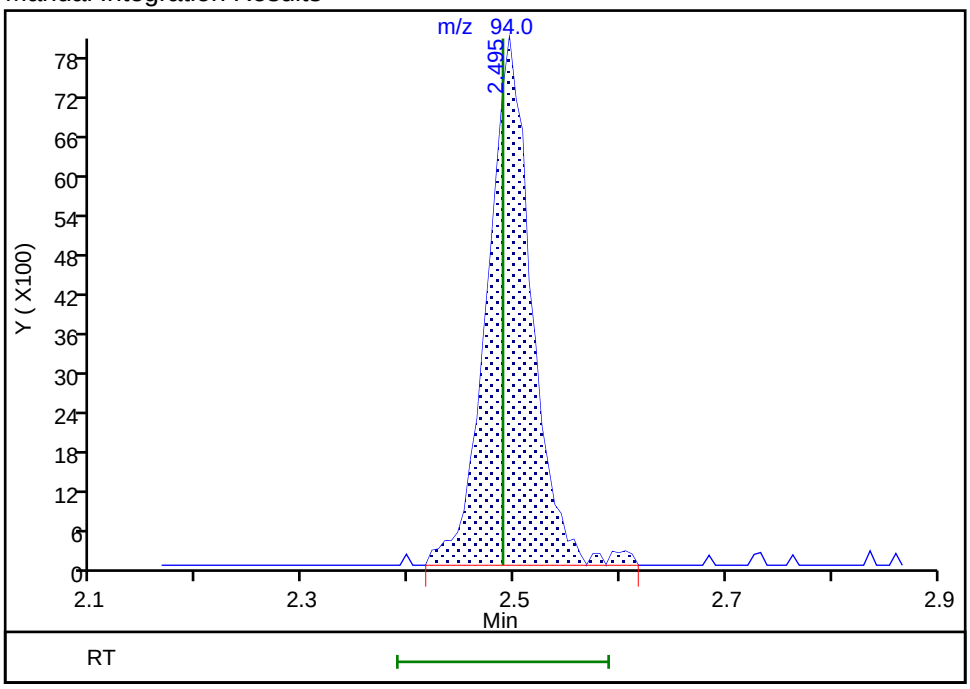
Processing Integration Results

RT: 2.50
Area: 23258
Amount: 0.397720
Amount Units: ug/l



Manual Integration Results

RT: 2.50
Area: 23670
Amount: 0.504686
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:12:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

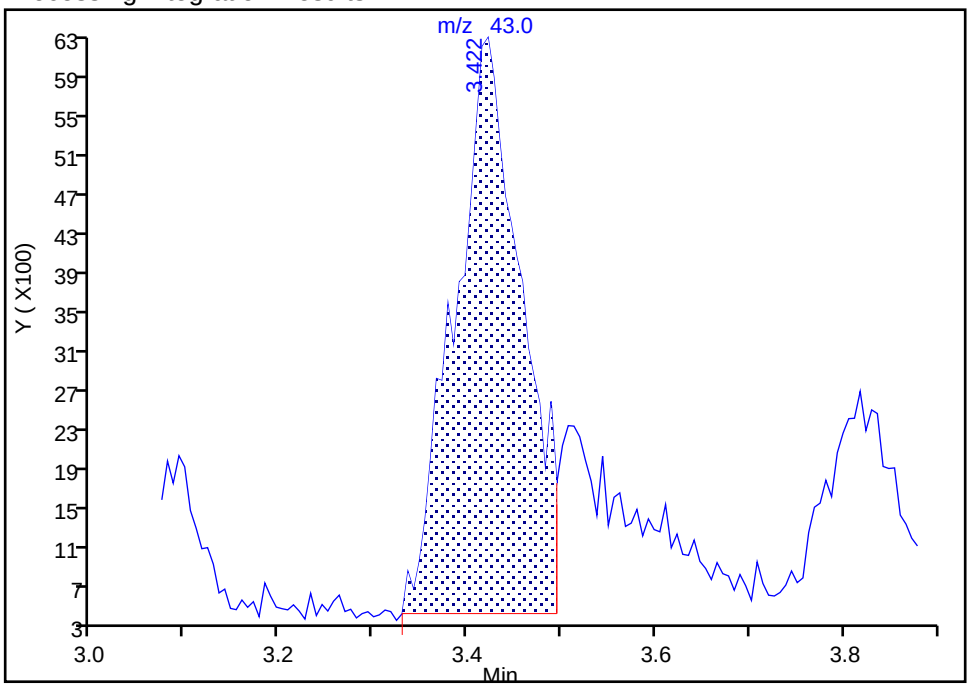
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D
Injection Date: 11-Mar-2021 21:18:30 Instrument ID: 10193
Lims ID: IC STD.5 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

16 Acetone, CAS: 67-64-1

Signal: 1

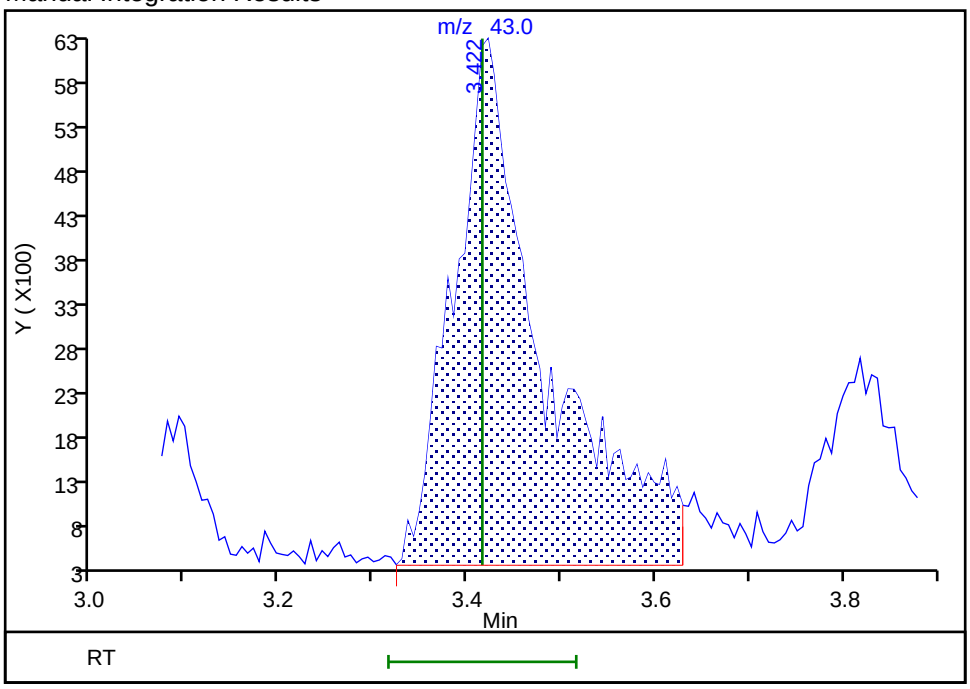
Processing Integration Results

RT: 3.42
Area: 29138
Amount: 3.846804
Amount Units: ug/l



Manual Integration Results

RT: 3.42
Area: 39833
Amount: 5.040336
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:35:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

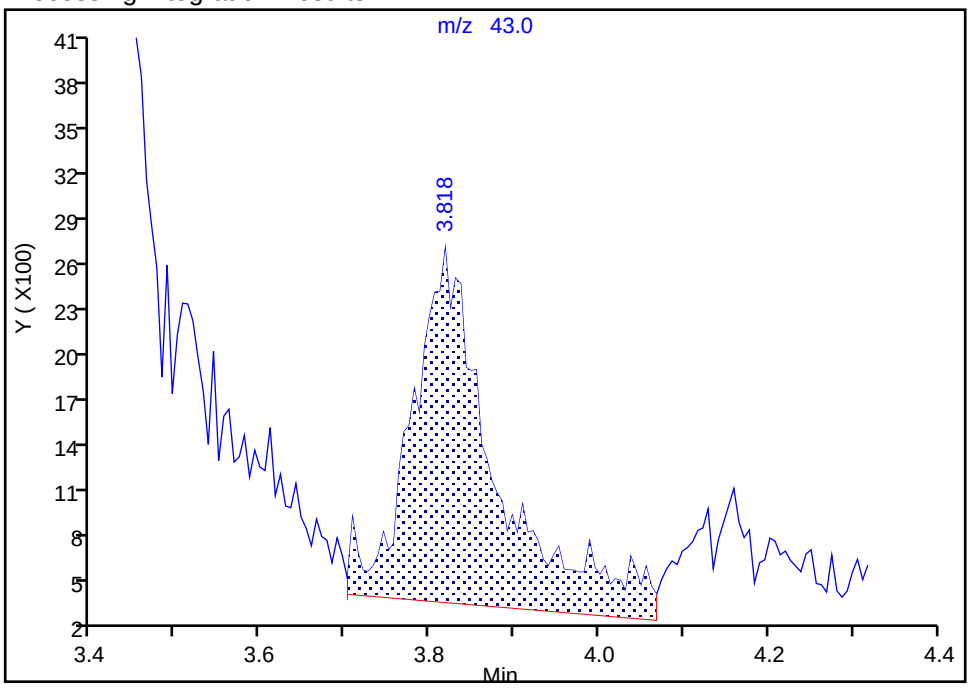
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D				
Injection Date:	11-Mar-2021 21:18:30	Instrument ID:	10193		
Lims ID:	IC STD.5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

22 Methyl acetate, CAS: 79-20-9

Signal: 1

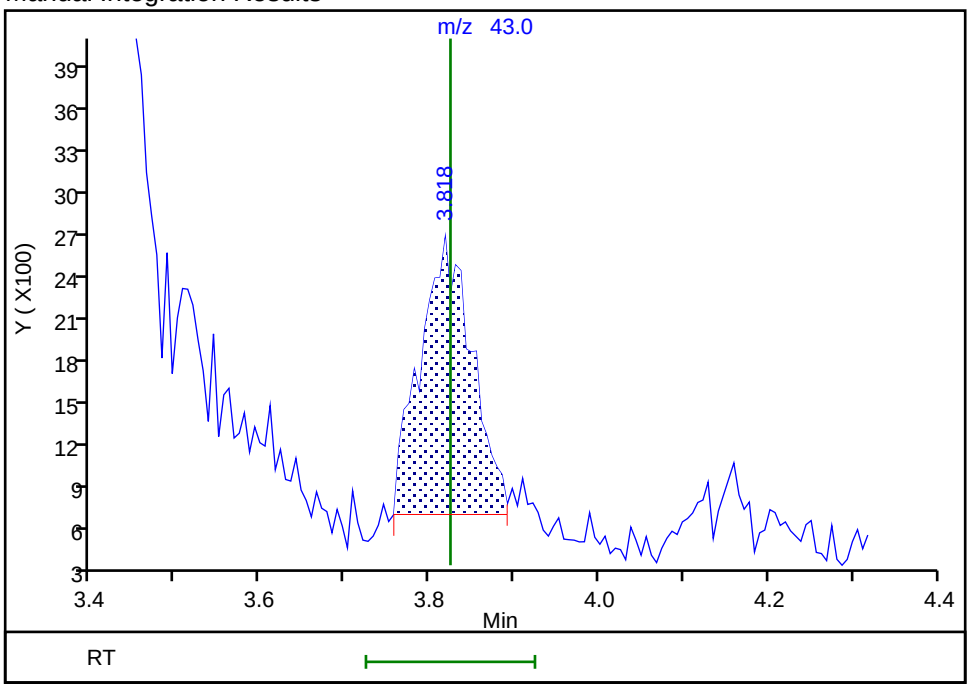
Processing Integration Results

RT: 3.82
Area: 15827
Amount: 0.965731
Amount Units: ug/l



Manual Integration Results

RT: 3.82
Area: 8102
Amount: 0.467556
Amount Units: ug/l



Reviewer: knouses, 23-Mar-2021 12:25:14
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

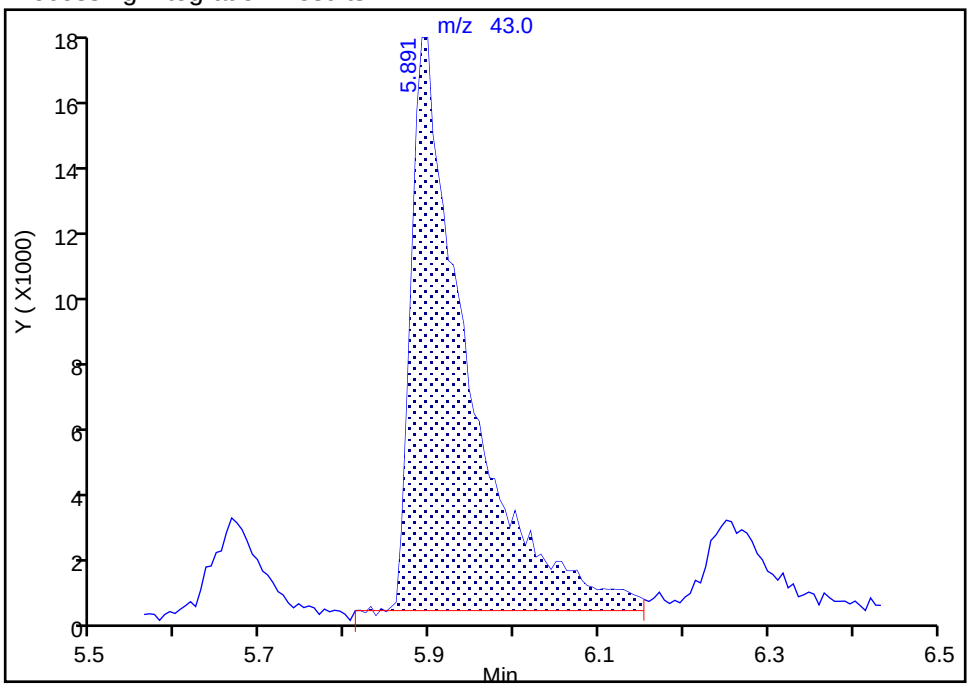
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D				
Injection Date:	11-Mar-2021 21:18:30	Instrument ID:	10193		
Lims ID:	IC STD.5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

36 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

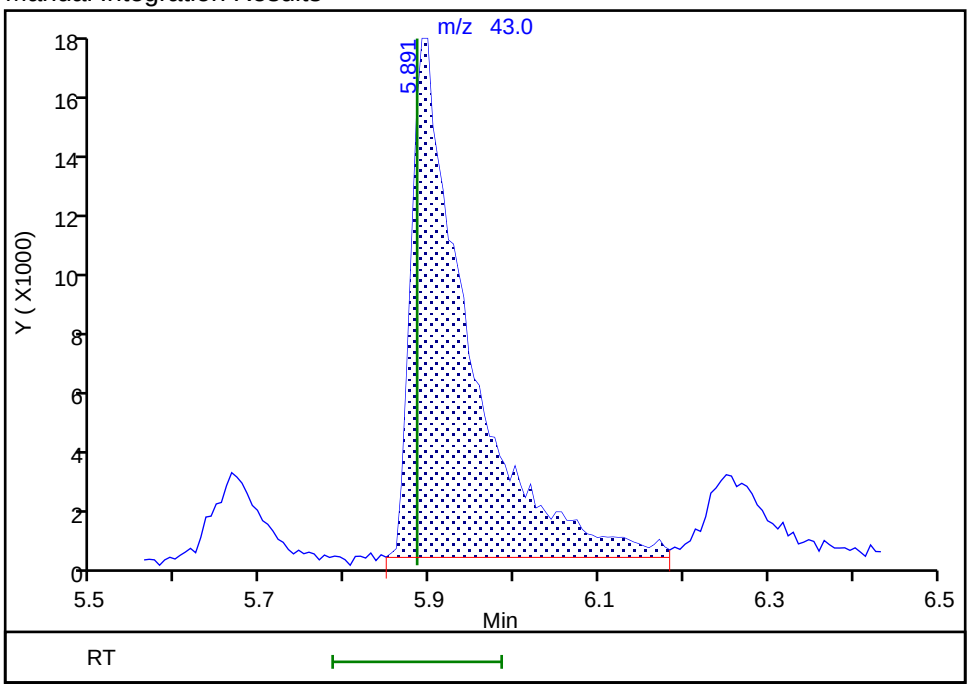
Processing Integration Results

RT: 5.89
Area: 77519
Amount: 4.951846
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 78803
Amount: 4.906559
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:38:30

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

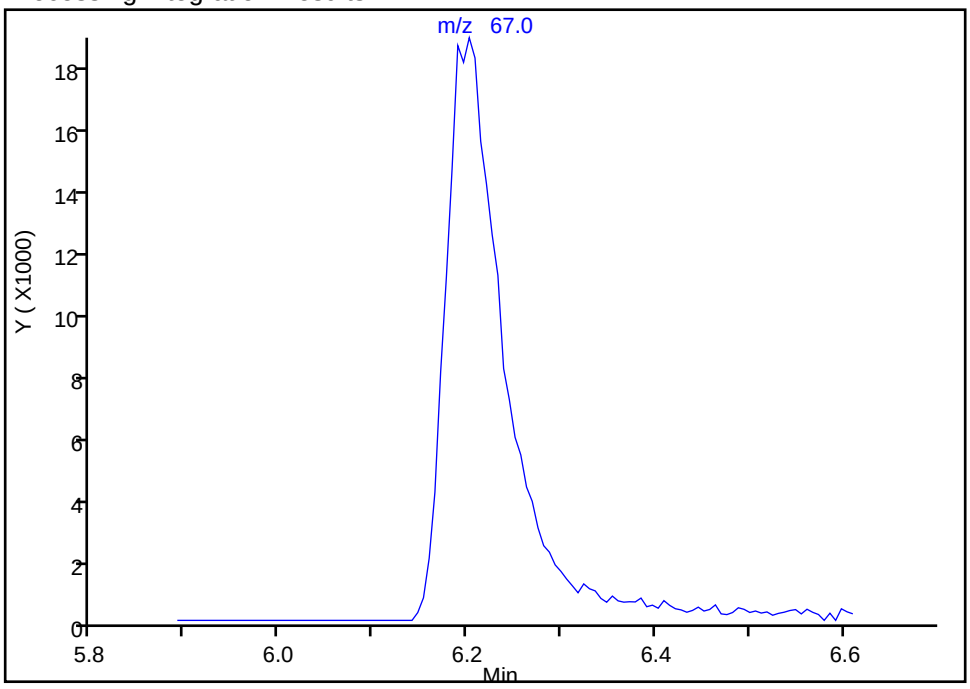
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D				
Injection Date:	11-Mar-2021 21:18:30	Instrument ID:	10193		
Lims ID:	IC STD.5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

43 Methacrylonitrile, CAS: 126-98-7

Signal: 1

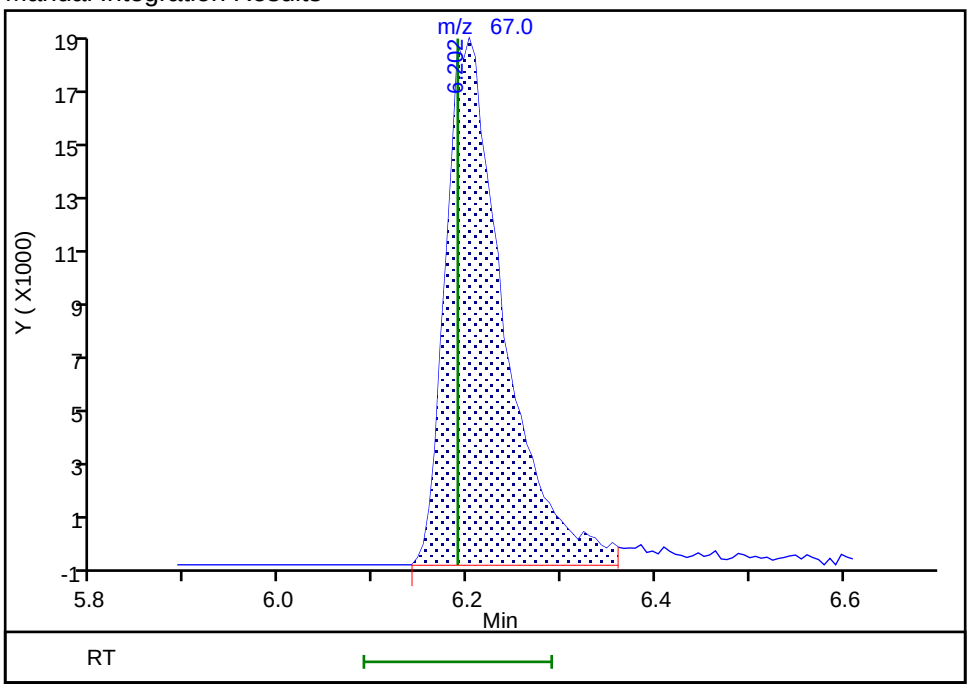
Not Detected
Expected RT: 6.19

Processing Integration Results



Manual Integration Results

RT: 6.20
Area: 78755
Amount: 4.969385
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:39:02
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

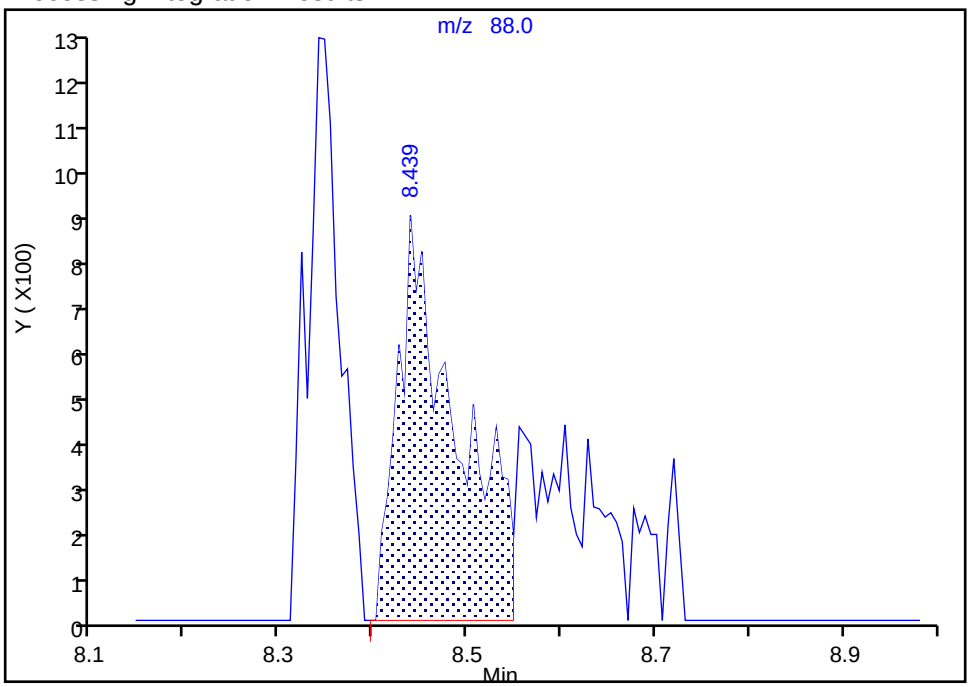
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D
Injection Date: 11-Mar-2021 21:18:30 Instrument ID: 10193
Lims ID: IC STD.5 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

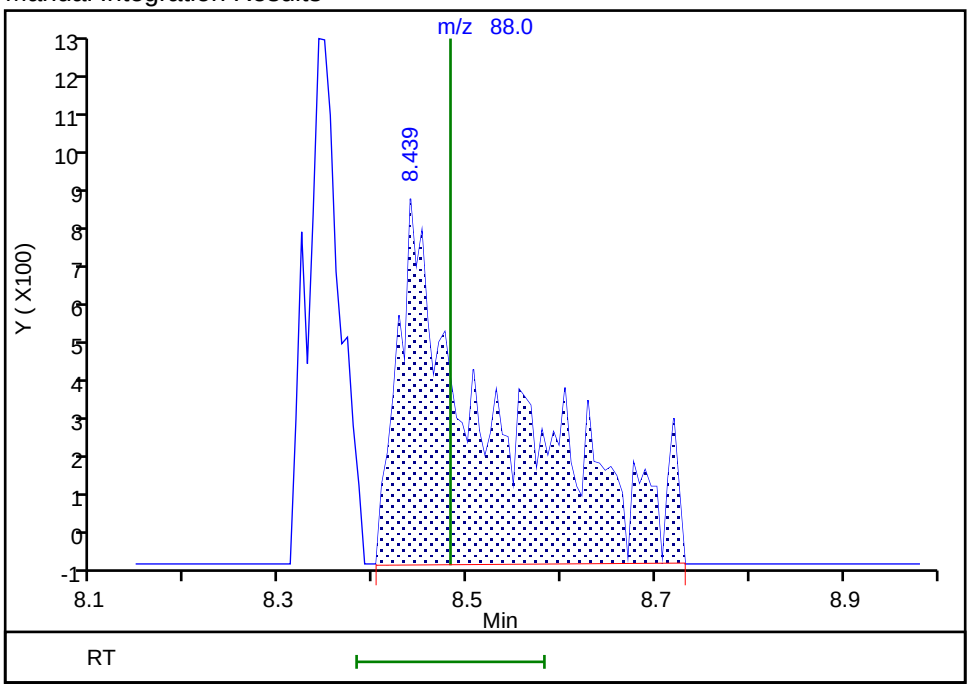
Processing Integration Results

RT: 8.44
Area: 3650
Amount: 22.044795
Amount Units: ug/l



Manual Integration Results

RT: 8.44
Area: 6141
Amount: 29.747061
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:40:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

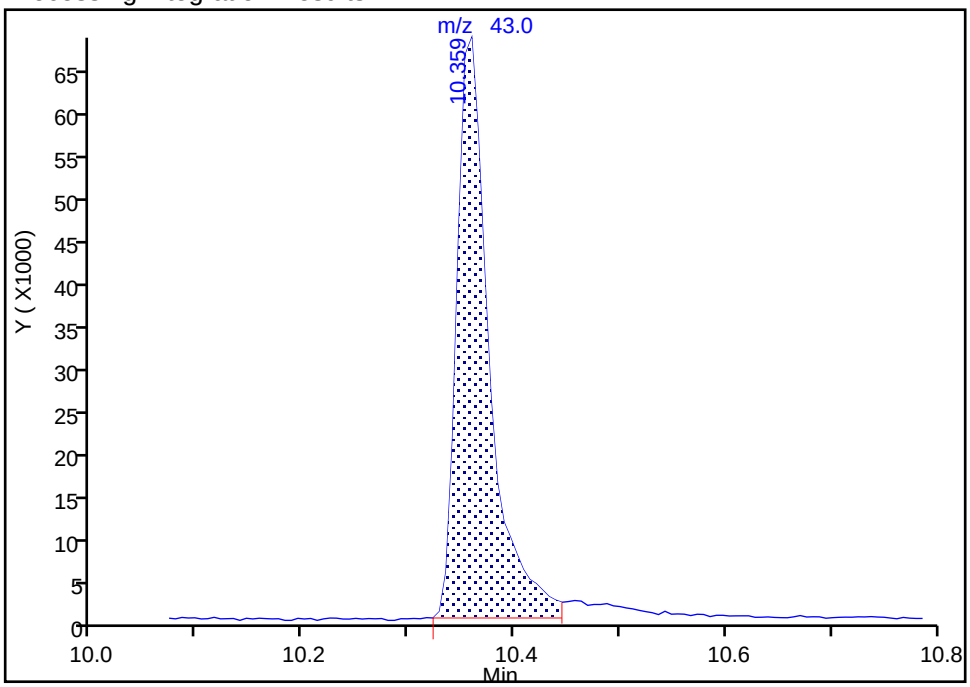
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D				
Injection Date:	11-Mar-2021 21:18:30	Instrument ID:	10193		
Lims ID:	IC STD.5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

82 2-Hexanone, CAS: 591-78-6

Signal: 1

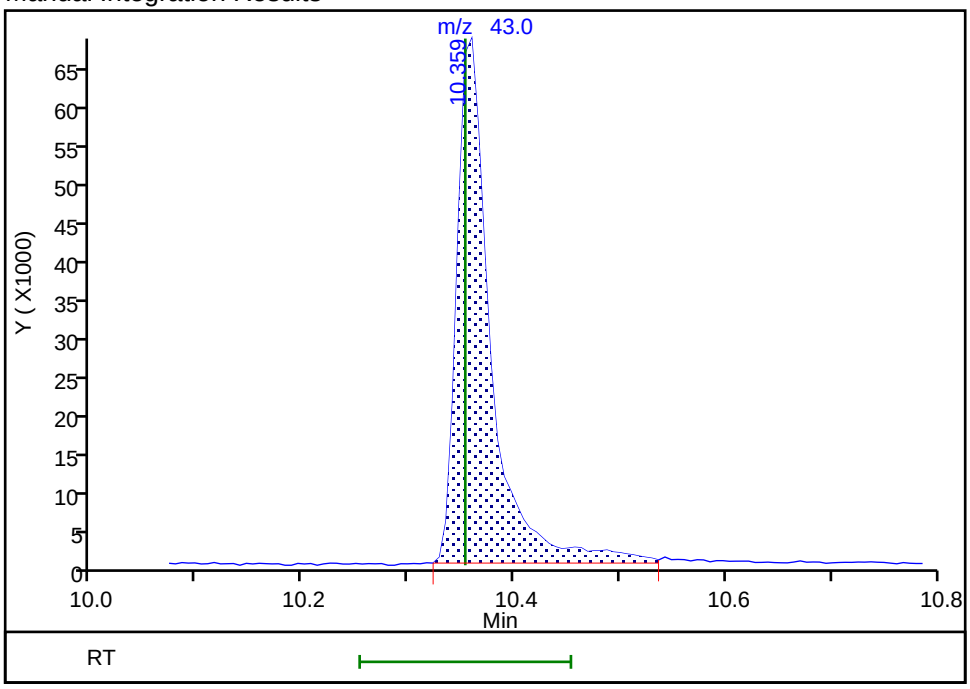
Processing Integration Results

RT: 10.36
Area: 145985
Amount: 4.691289
Amount Units: ug/l



Manual Integration Results

RT: 10.36
Area: 153300
Amount: 4.738375
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:46:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

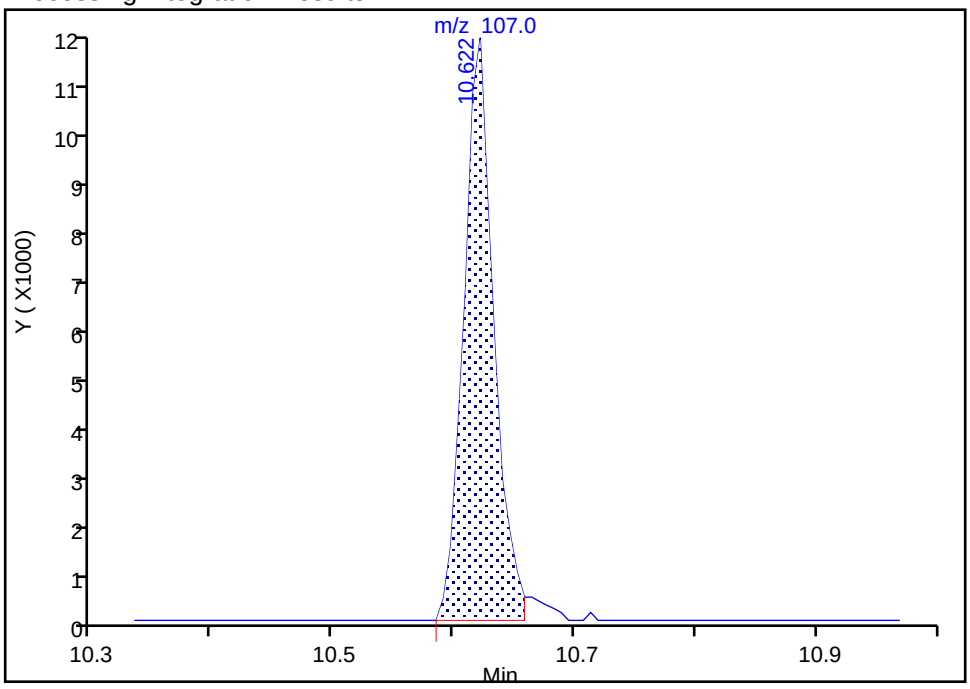
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D				
Injection Date:	11-Mar-2021 21:18:30	Instrument ID:	10193		
Lims ID:	IC STD.5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

84 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

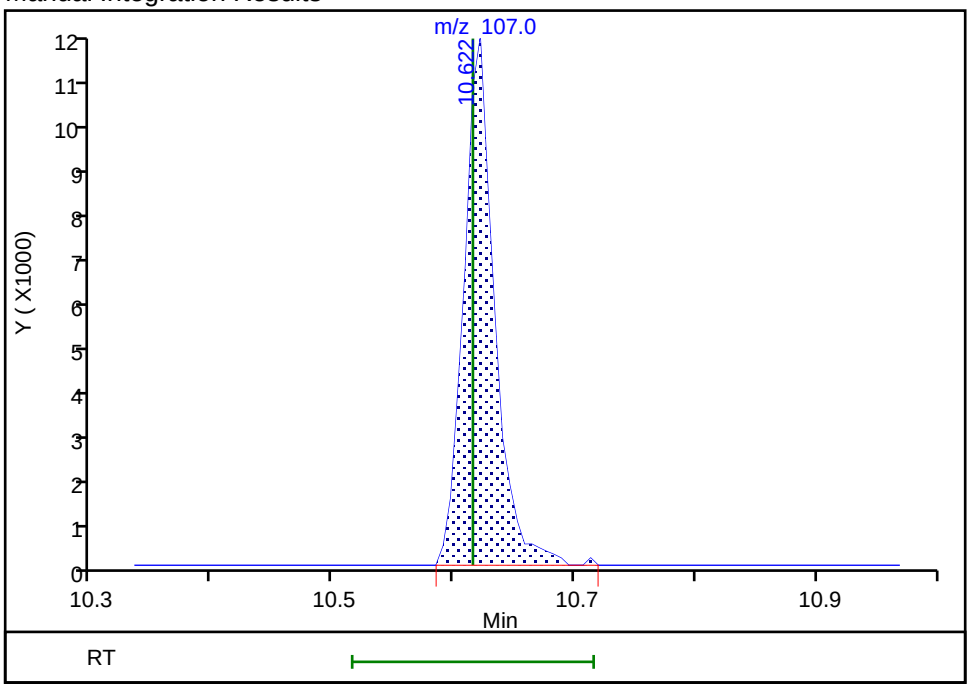
Processing Integration Results

RT: 10.62
Area: 20326
Amount: 0.483522
Amount Units: ug/l



Manual Integration Results

RT: 10.62
Area: 20961
Amount: 0.496485
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:46:17

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

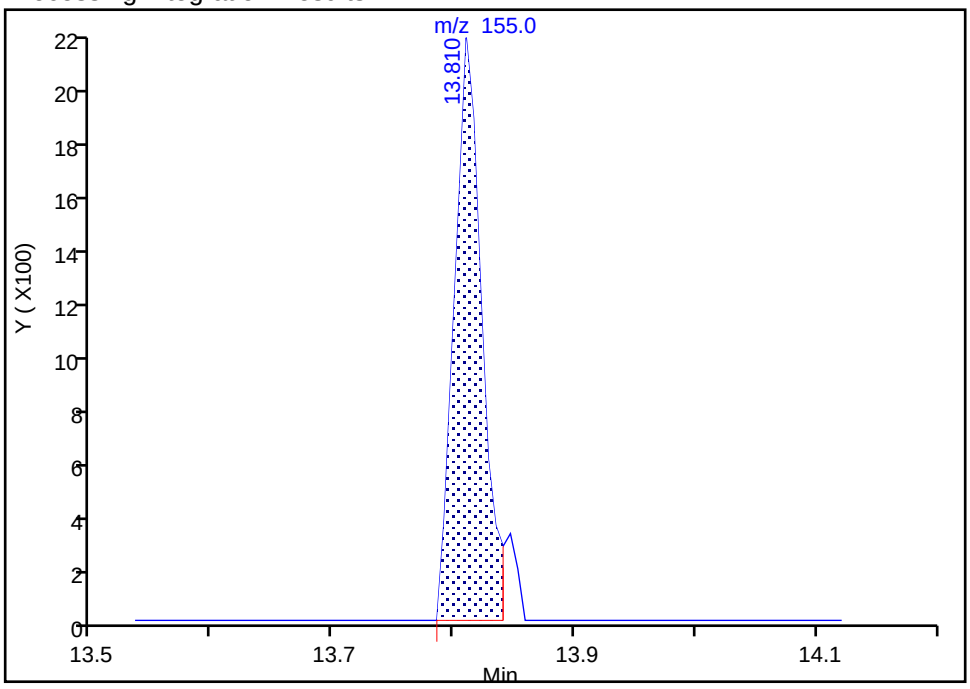
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D				
Injection Date:	11-Mar-2021 21:18:30	Instrument ID:	10193		
Lims ID:	IC STD.5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

123 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

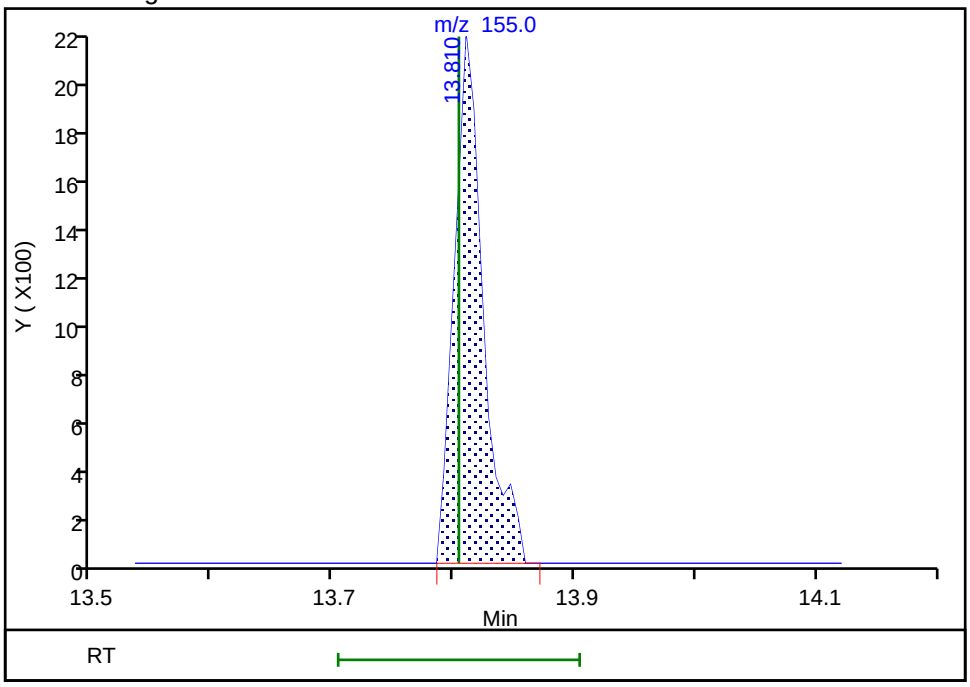
Processing Integration Results

RT: 13.81
Area: 3331
Amount: 0.439824
Amount Units: ug/l



Manual Integration Results

RT: 13.81
Area: 3514
Amount: 0.460806
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:46:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Lims ID: IC STD.2 Lg
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-Mar-2021 21:40:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023820-018
Misc. Info.: ICV LG
Operator ID: SRK36897 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 23-Mar-2021 16:56:53 Calib Date: 11-Mar-2021 21:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1638

First Level Reviewer: knouses Date: 12-Mar-2021 10:55:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.879	1.879	0.000	30	4909	0.2000	0.0865	
3 Chloromethane	50	2.080	2.074	0.006	98	16127	0.2000	0.2299	
4 Butadiene	39	2.184	2.178	0.006	91	15497	0.2000	0.2013	M
5 Vinyl chloride	62	2.184	2.184	0.000	69	11671	0.2000	0.1821	
6 Bromomethane	94	2.495	2.489	0.006	90	10263	0.2000	0.2227	
7 Chloroethane	64	2.568	2.562	0.006	98	8651	0.2000	0.2060	
8 Dichlorofluoromethane	67	2.800	2.800	0.000	97	20597	0.2000	0.2129	
9 Trichlorofluoromethane	101	2.861	2.861	0.000	98	8323	0.2000	0.0952	
11 Ethyl ether	59	3.086	3.086	0.000	93	9230	0.2000	0.1947	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.172	3.172	0.000	92	12692	0.2000	0.1853	
13 Acrolein	56	3.257	3.257	0.000	99	62338	10.0	9.14	
14 1,1-Dichloroethene	96	3.385	3.379	0.006	97	9628	0.2000	0.1952	
15 112TCTFE	101	3.416	3.410	0.006	87	8566	0.2000	0.1595	
16 Acetone	43	3.422	3.416	0.006	42	14655	2.00	1.82	M
17 Iodomethane	142	3.568	3.562	0.006	100	18991	0.2000	0.1971	
18 Isopropyl alcohol	45	3.562	3.586	-0.024	37	8354	4.00	4.37	
19 Ethyl bromide	108	3.592	3.592	0.000	94	7881	0.2001	0.1906	M
20 Carbon disulfide	76	3.672	3.659	0.013	99	31322	0.2000	0.1860	
22 Methyl acetate	43	3.818	3.824	-0.006	27	3047	0.2000	0.1727	M
23 3-Chloro-1-propene	41	3.824	3.830	-0.006	88	19050	0.2000	0.2089	M
24 Methylene Chloride	84	4.013	4.007	0.006	96	11365	0.2000	0.2053	M
* 25 t-Butyl alcohol-d10 (IS)	65	4.068	4.050	0.018	0	174165	50.0	50.0	
26 2-Methyl-2-propanol	59	4.141	4.165	-0.024	44	12195	4.00	3.92	M
27 Acrylonitrile	53	4.354	4.354	0.000	96	9792	1.00	0.8567	
28 Methyl tert-butyl ether	73	4.403	4.391	0.012	95	31742	0.2000	0.1951	
29 trans-1,2-Dichloroethene	96	4.409	4.403	0.006	96	11628	0.2000	0.2055	
30 Hexane	57	4.830	4.824	0.006	92	14981	0.2000	0.1675	
32 1,1-Dichloroethane	63	5.074	5.074	0.000	96	20975	0.2000	0.1958	
33 Isopropyl ether	45	5.141	5.129	0.012	92	39087	0.2000	0.1938	
34 2-Chloro-1,3-butadiene	53	5.184	5.184	0.000	93	18141	0.2000	0.1867	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Tert-butyl ethyl ether	59	5.665	5.665	0.000	98	38483	0.2000	0.1961	M
36 2-Butanone (MEK)	43	5.903	5.885	0.018	98	31693	2.00	1.94	M
37 cis-1,2-Dichloroethene	96	5.921	5.915	0.006	83	12707	0.2000	0.1997	
38 2,2-Dichloropropane	77	5.927	5.921	0.006	62	16422	0.2000	0.1887	M
40 Propionitrile	54	6.007	5.988	0.019	98	16183	4.00	3.75	M
S 42 1,2-Dichloroethene, Total	100				0			0.4052	
43 Methacrylonitrile	67	6.208	6.189	0.019	90	31122	2.00	1.93	M
44 Chlorobromomethane	128	6.244	6.244	0.000	87	5501	0.2000	0.1945	
45 Tetrahydrofuran	71	6.275	6.250	0.025	60	8374	2.00	1.78	M
46 Chloroform	83	6.409	6.403	0.006	95	20269	0.2000	0.1978	
$ 47 Dibromofluoromethane (Surr)	113	6.622	6.622	0.000	93	506093	10.0	9.95	
48 1,1,1-Trichloroethane	97	6.616	6.622	-0.006	45	16721	0.2000	0.1855	
49 Cyclohexane	56	6.720	6.714	0.006	93	18772	0.2000	0.1742	
50 Carbon tetrachloride	117	6.836	6.830	0.006	78	12915	0.2000	0.1717	
51 1,1-Dichloropropene	75	6.848	6.842	0.006	93	16022	0.2000	0.1913	
52 Isobutyl alcohol	41	7.043	7.031	0.012	78	11714	10.0	10.1	M
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.073	7.080	-0.007	0	104513	10.0	9.97	
54 Benzene	78	7.104	7.104	0.000	94	47305	0.2000	0.1949	
55 1,2-Dichloroethane	62	7.183	7.171	0.012	94	15366	0.2000	0.2124	M
56 Tert-amyl methyl ether	73	7.305	7.299	0.006	97	33265	0.2000	0.1904	M
* 57 Fluorobenzene (IS)	96	7.512	7.512	0.000	98	2149149	10.0	10.0	
58 n-Heptane	43	7.518	7.525	-0.007	37	18909	0.2000	0.1923	M
59 n-Butanol	56	7.951	7.927	0.024	95	16368	20.0	16.7	M
60 Trichloroethene	95	8.000	7.994	0.006	97	11721	0.2000	0.1905	
61 Methylcyclohexane	83	8.305	8.299	0.006	79	8827	0.2000	0.0802	
62 1,2-Dichloropropane	63	8.335	8.335	0.000	89	12070	0.2000	0.1924	
63 2-ethoxy-2-methyl butane	87	8.348	8.342	0.006	94	17827	0.2000	0.1829	
64 Methyl methacrylate	69	8.457	8.433	0.024	87	5968	0.2000	0.1829	M
66 Dibromomethane	93	8.451	8.439	0.012	93	5533	0.2000	0.1889	
65 1,4-Dioxane	88	8.445	8.482	-0.037	30	1384	10.0	6.59	M
67 Dichlorobromomethane	83	8.689	8.689	0.000	98	13700	0.2000	0.1887	
68 2-Nitropropane	41	8.975	8.969	0.006	98	21058	2.00	1.98	M
71 1-Bromo-2-chloroethane	63	9.091	9.079	0.012	99	10904	0.2000	0.1828	
72 cis-1,3-Dichloropropene	75	9.256	9.250	0.006	94	17787	0.2000	0.1896	M
73 4-Methyl-2-pentanone (MIBK)	43	9.439	9.433	0.006	97	77509	2.00	1.72	
$ 74 Toluene-d8 (Surr)	98	9.561	9.561	0.000	94	2123666	10.0	9.99	
75 Toluene	92	9.646	9.640	0.006	97	30140	0.2000	0.1942	
76 trans-1,3-Dichloropropene	75	9.920	9.914	0.006	96	15184	0.2000	0.1920	M
78 Ethyl methacrylate	69	9.994	9.981	0.013	89	12129	0.2000	0.1809	M
S 77 1,3-Dichloropropene, Total	100				0			0.3816	
79 1,1,2-Trichloroethane	97	10.128	10.122	0.006	92	8862	0.2000	0.2054	M
80 Tetrachloroethene	166	10.201	10.201	0.000	95	11980	0.2000	0.1821	
81 1,3-Dichloropropane	76	10.292	10.292	0.000	92	14952	0.2000	0.1941	M
82 2-Hexanone	43	10.365	10.353	0.012	97	63799	2.00	1.94	M
83 Chlorodibromomethane	129	10.506	10.506	0.000	93	8282	0.2000	0.1707	
84 Ethylene Dibromide	107	10.622	10.615	0.007	94	7663	0.2000	0.1841	
* 85 Chlorobenzene-d5 (IS)	117	11.060	11.060	0.000	87	1589174	10.0	10.0	
86 1-Chlorohexane	91	11.073	11.073	0.000	87	18290	0.2000	0.2046	
87 Chlorobenzene	112	11.085	11.085	0.000	95	35087	0.2000	0.2005	
89 1,1,1,2-Tetrachloroethane	131	11.176	11.170	0.006	90	10966	0.2000	0.1878	
90 Ethylbenzene	91	11.176	11.176	0.000	99	57877	0.2000	0.1913	
S 88 Xylenes, Total	106				0			0.5658	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
91 m-Xylene & p-Xylene	106	11.298	11.292	0.006	99	44013	0.4000	0.3749	
92 o-Xylene	106	11.634	11.627	0.007	97	22311	0.2000	0.1910	
93 Styrene	104	11.652	11.646	0.006	95	36816	0.2000	0.1888	M
94 Bromoform	173	11.804	11.804	0.000	95	4521	0.2000	0.1639	
95 Isopropylbenzene	105	11.932	11.932	0.000	96	55459	0.2000	0.1831	
$ 98 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	88	811561	10.0	9.97	
99 1,1,2,2-Tetrachloroethane	83	12.188	12.188	0.000	94	10091	0.2000	0.1843	
100 Bromobenzene	156	12.194	12.194	0.000	94	14812	0.2000	0.2009	
101 trans-1,4-Dichloro-2-butene	53	12.219	12.213	0.006	92	26446	2.00	1.65	
102 1,2,3-Trichloropropane	110	12.237	12.231	0.006	80	2762	0.2000	0.1867	
103 N-Propylbenzene	91	12.268	12.268	0.000	99	66820	0.2000	0.1873	
104 2-Chlorotoluene	126	12.347	12.341	0.006	96	14644	0.2000	0.1983	
105 1,3,5-Trimethylbenzene	105	12.408	12.408	0.000	94	49185	0.2000	0.1882	
106 4-Chlorotoluene	126	12.444	12.438	0.006	97	15024	0.2000	0.1944	
107 tert-Butylbenzene	134	12.652	12.646	0.006	94	11161	0.2000	0.1975	M
108 Pentachloroethane	167	12.682	12.682	0.000	74	7055	0.2000	0.1734	
109 1,2,4-Trimethylbenzene	105	12.694	12.694	0.000	98	49005	0.2000	0.1812	
110 sec-Butylbenzene	105	12.816	12.816	0.000	95	59794	0.2000	0.1785	
111 1,3-Dichlorobenzene	146	12.914	12.914	0.000	97	28076	0.2000	0.1928	
112 4-Isopropyltoluene	119	12.926	12.926	0.000	96	52030	0.2000	0.1788	
* 113 1,4-Dichlorobenzene-d4	152	12.969	12.969	0.000	96	866469	10.0	10.0	
114 1,4-Dichlorobenzene	146	12.987	12.987	0.000	95	30013	0.2000	0.2006	
115 1,2,3-Trimethylbenzene	120	12.999	12.999	0.000	97	24625	0.2000	0.2049	
116 Benzyl chloride	126	13.078	13.072	0.006	99	3024	0.2000	0.1481	
119 n-Butylbenzene	92	13.225	13.219	0.006	97	28518	0.2000	0.1921	M
120 1,2-Dichlorobenzene	146	13.255	13.249	0.006	98	27492	0.2000	0.2004	
118 p-Diethylbenzene	119	13.273	13.273	0.000	86	28594	0.2000	0.1921	M
123 1,2-Dibromo-3-Chloropropane	155	13.810	13.804	0.006	76	1199	0.2000	0.1583	
124 1,3,5-Trichlorobenzene	180	13.938	13.926	0.012	97	23542	0.2000	0.1970	M
125 1,2,4-Trichlorobenzene	180	14.365	14.353	0.012	94	20963	0.2000	0.1953	M
126 Hexachlorobutadiene	225	14.438	14.438	0.000	95	8957	0.2000	0.1757	
127 Naphthalene	128	14.554	14.535	0.019	97	37493	0.2000	0.1937	M
128 1,2,3-Trichlorobenzene	180	14.688	14.682	0.006	95	19725	0.2000	0.2067	M
129 2-Methylnaphthalene	142	15.328	15.304	0.024	92	27865	0.2000	0.2080	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00041	Amount Added:	2.00	Units: uL	
MSV_RV4_826_00047	Amount Added:	2.00	Units: uL	
MSV_RV4GAS826_00118	Amount Added:	2.00	Units: uL	
MSV_HP25_ISSS_00023	Amount Added:	1.00	Units: uL	Run Reagent

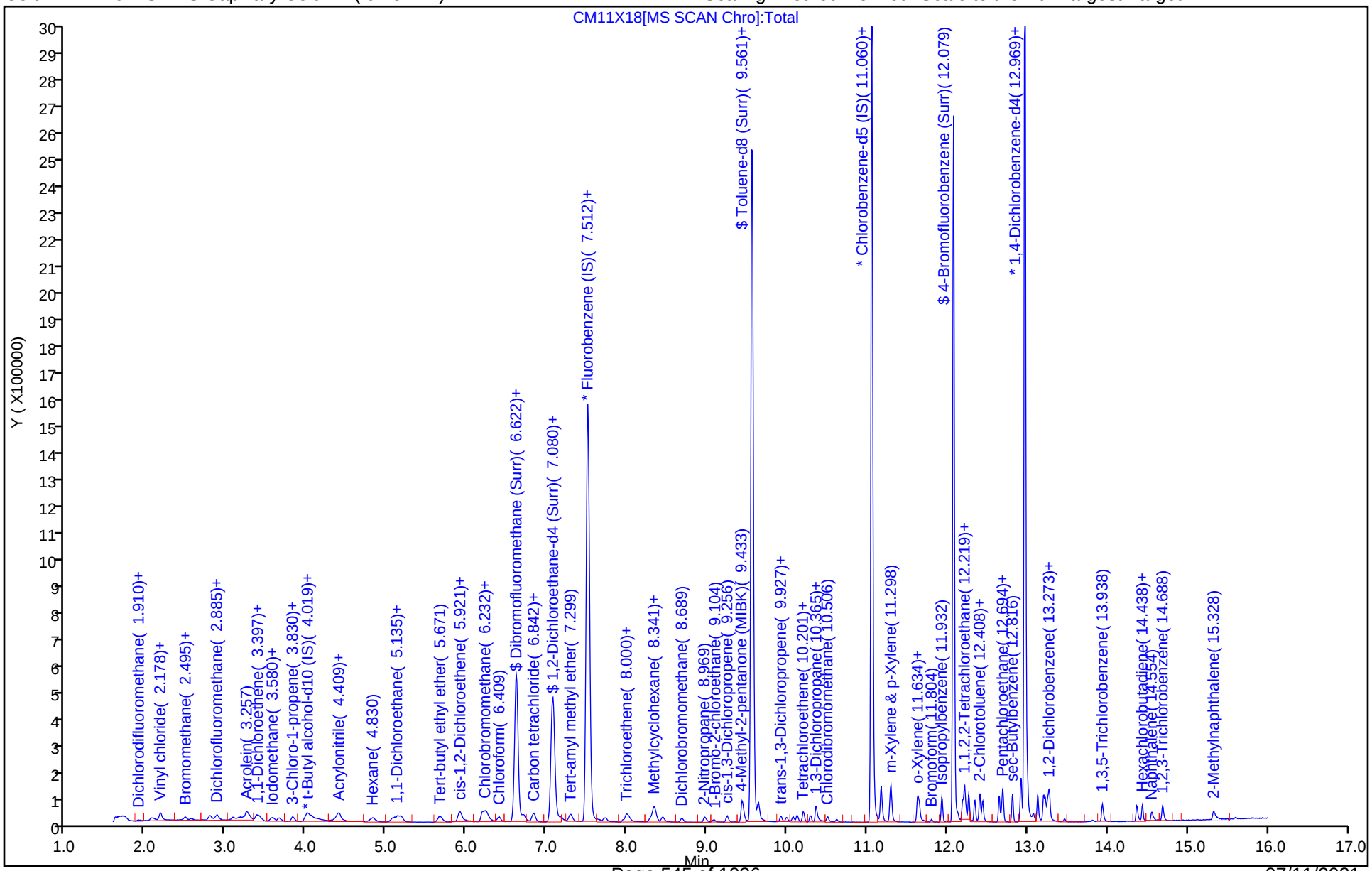
Report Date: 23-Mar-2021 16:56:55 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D

Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	IC STD.2 Lg			Worklist Smp#:	18
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

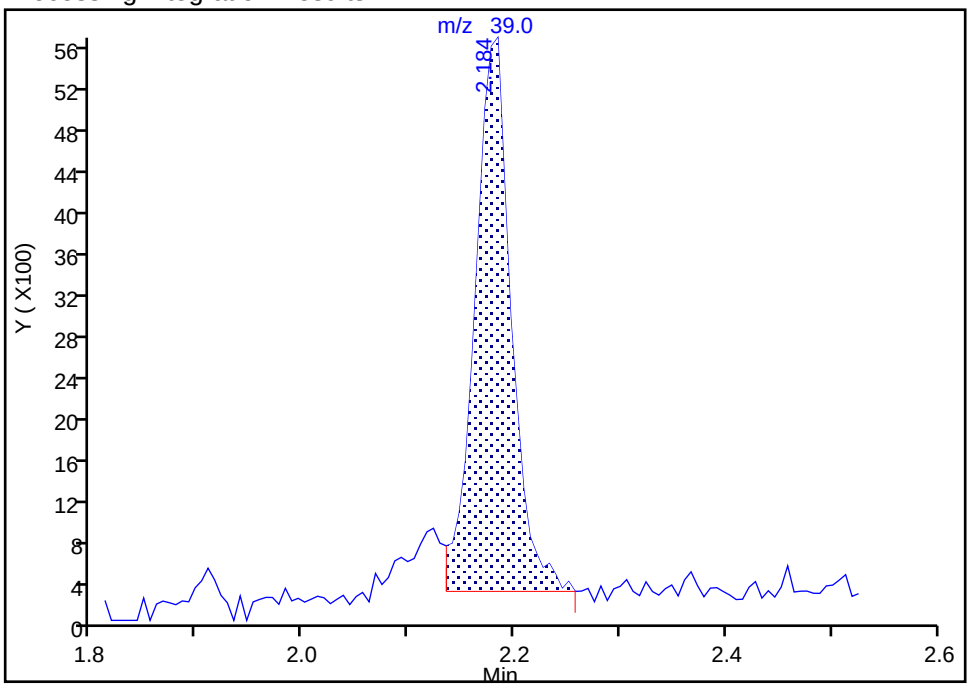
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

4 Butadiene, CAS: 106-99-0

Signal: 1

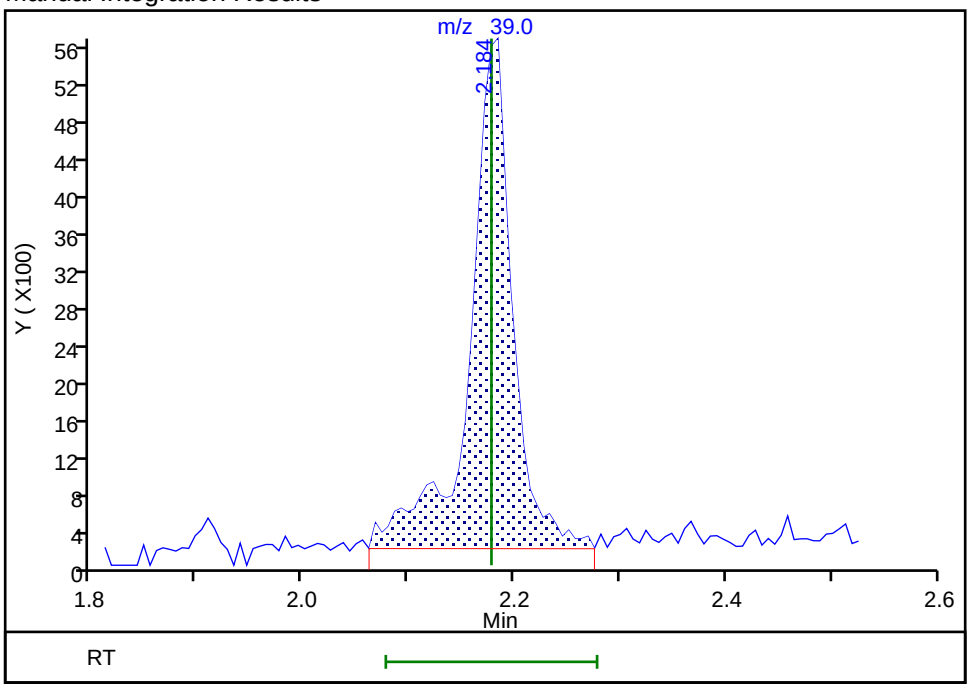
Processing Integration Results

RT: 2.18
Area: 12841
Amount: 0.173162
Amount Units: ug/l



Manual Integration Results

RT: 2.18
Area: 15497
Amount: 0.201257
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:46:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

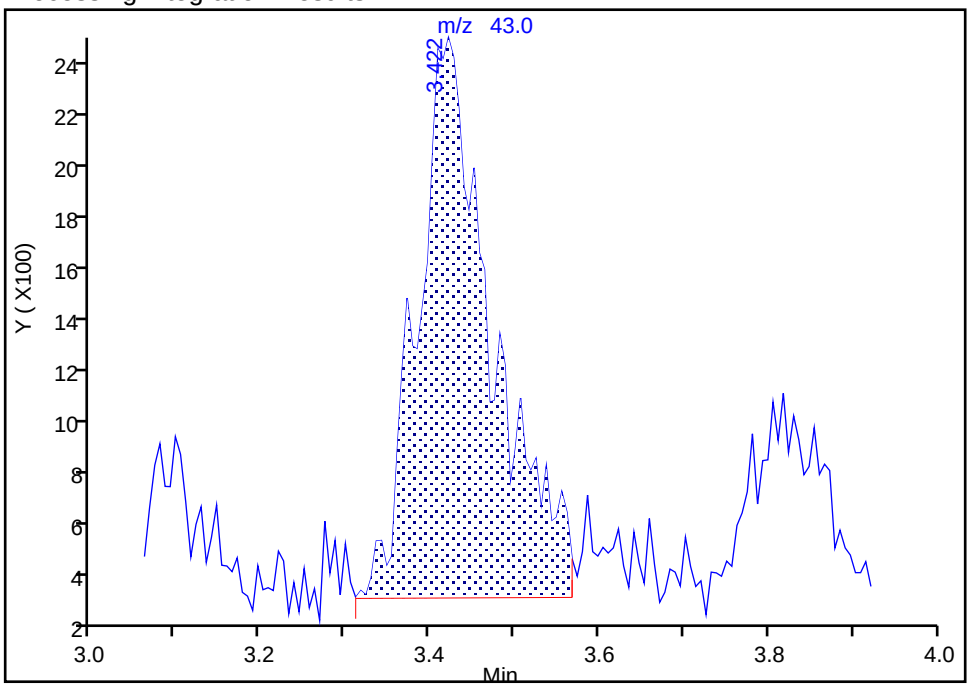
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

16 Acetone, CAS: 67-64-1

Signal: 1

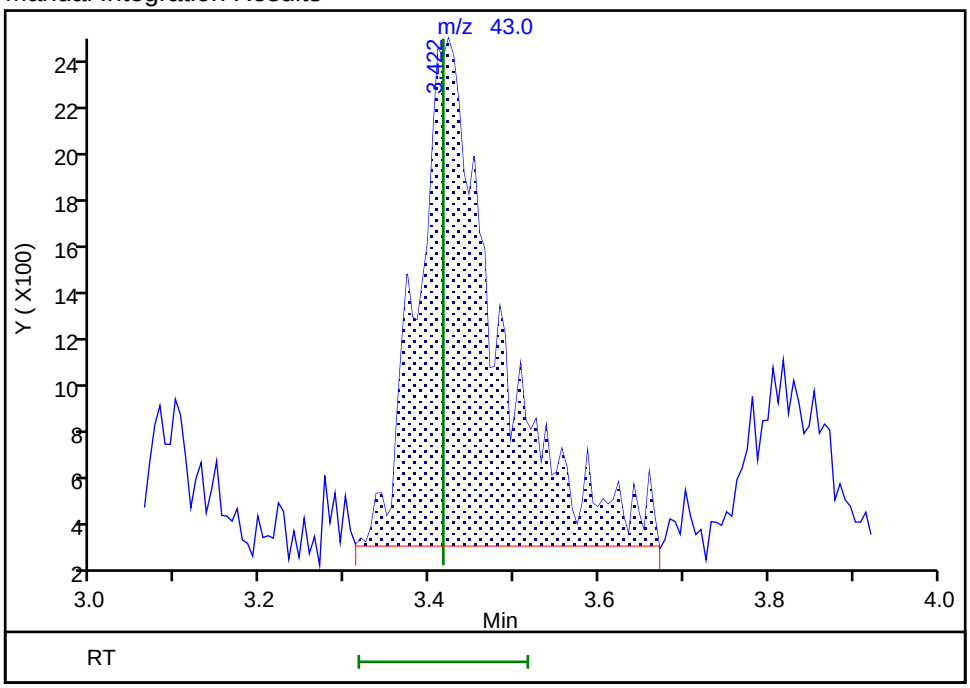
Processing Integration Results

RT: 3.42
Area: 13485
Amount: 1.681014
Amount Units: ug/l



Manual Integration Results

RT: 3.42
Area: 14655
Amount: 1.821623
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 11:47:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

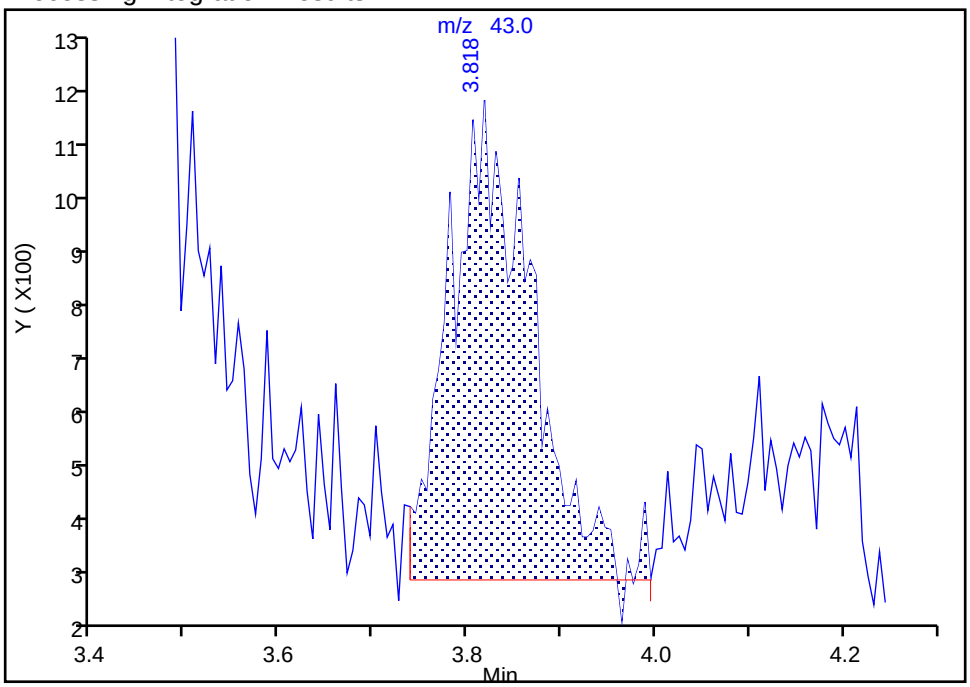
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

22 Methyl acetate, CAS: 79-20-9

Signal: 1

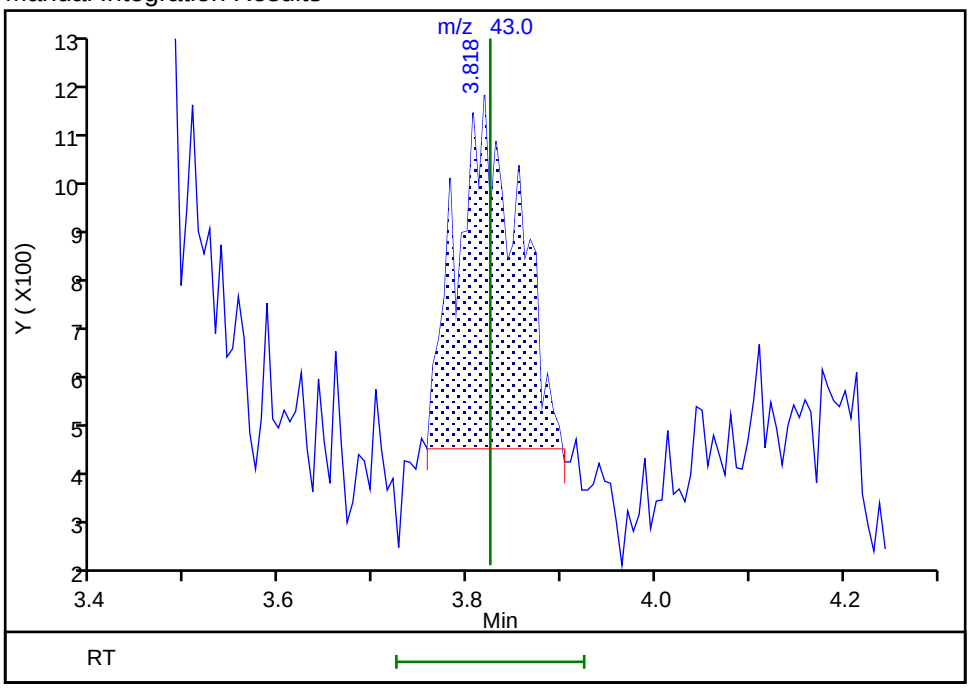
Processing Integration Results

RT: 3.82
Area: 4953
Amount: 0.639304
Amount Units: ug/l



Manual Integration Results

RT: 3.82
Area: 3047
Amount: 0.172731
Amount Units: ug/l



Reviewer: knouses, 23-Mar-2021 12:27:11

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

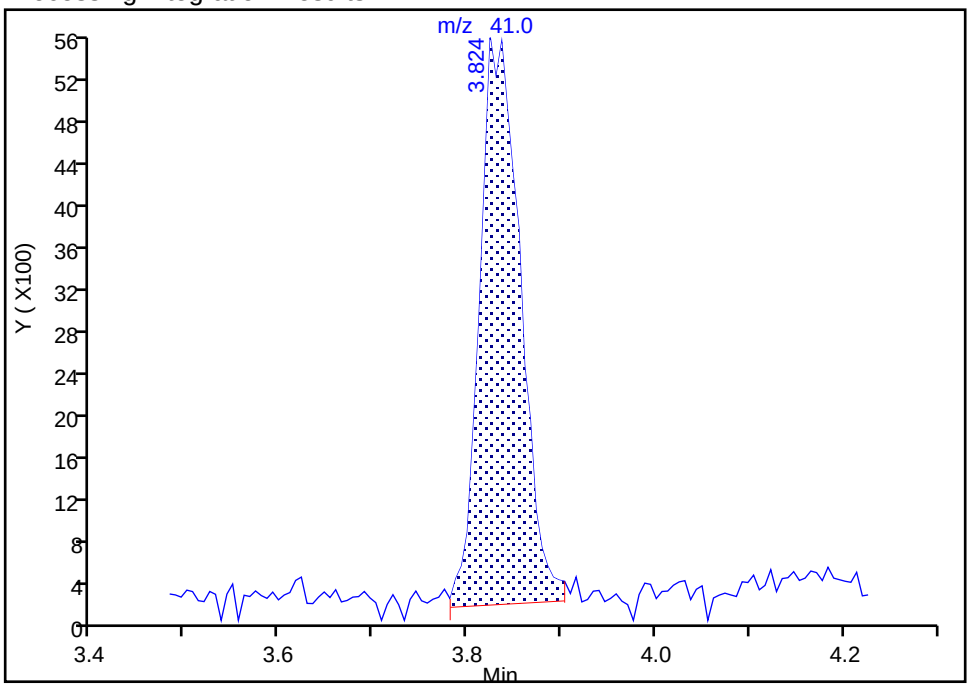
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

23 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

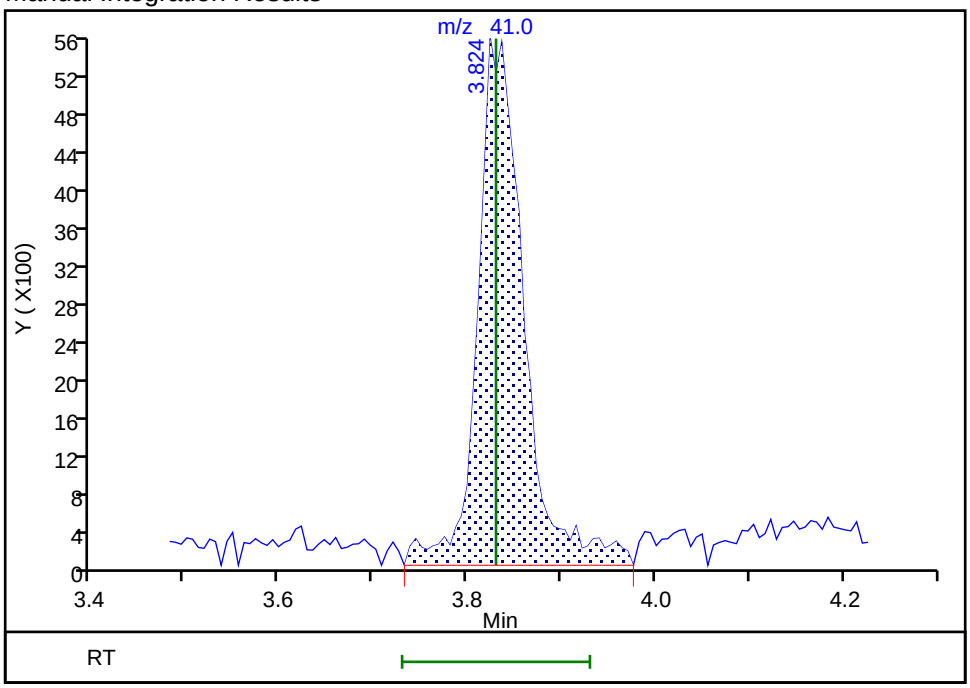
Processing Integration Results

RT: 3.82
Area: 16329
Amount: 0.182970
Amount Units: ug/l



Manual Integration Results

RT: 3.82
Area: 19050
Amount: 0.208910
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 11:52:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

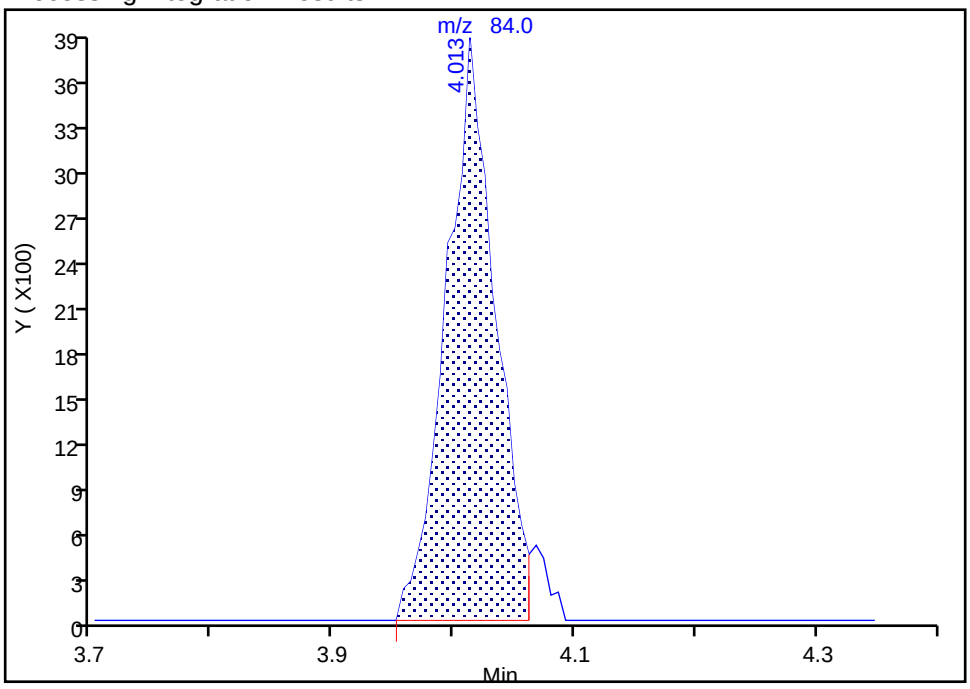
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

24 Methylene Chloride, CAS: 75-09-2

Signal: 1

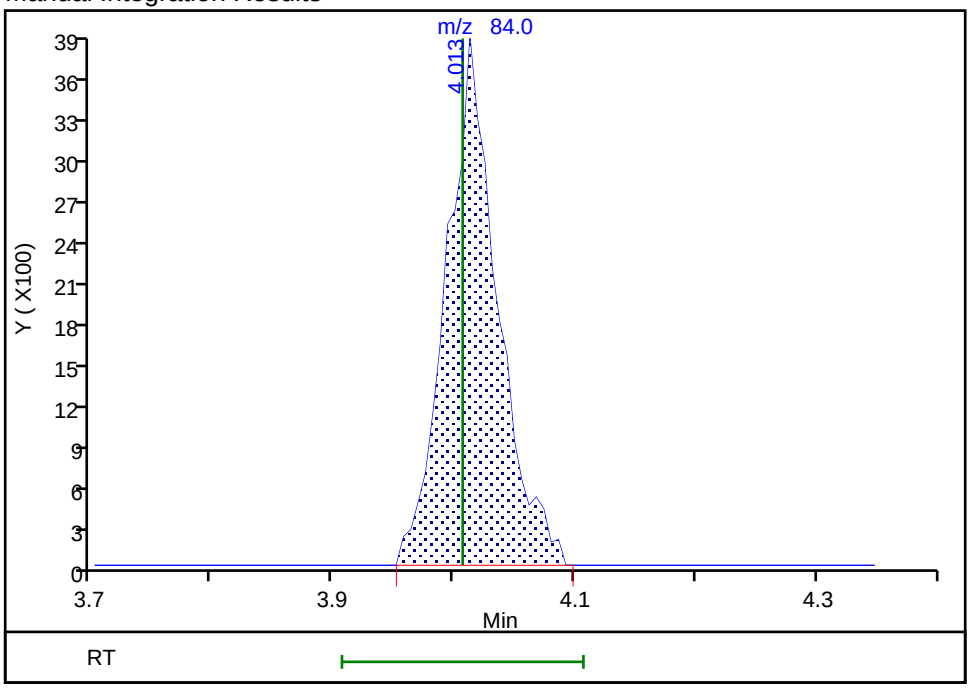
Processing Integration Results

RT: 4.01
Area: 10906
Amount: 0.198156
Amount Units: ug/l



Manual Integration Results

RT: 4.01
Area: 11365
Amount: 0.205273
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:48:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

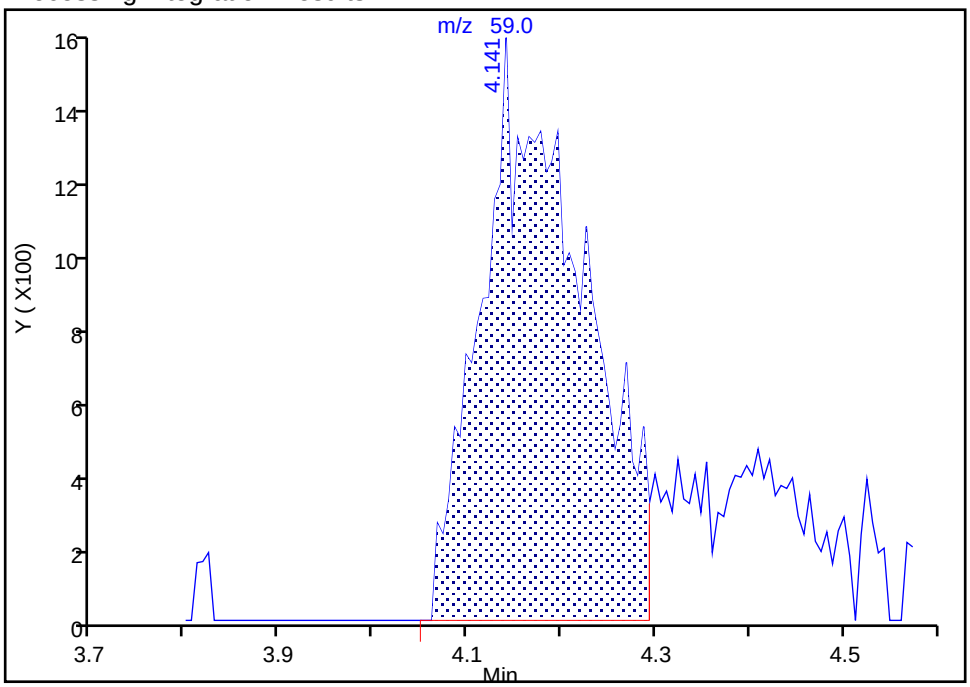
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

26 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

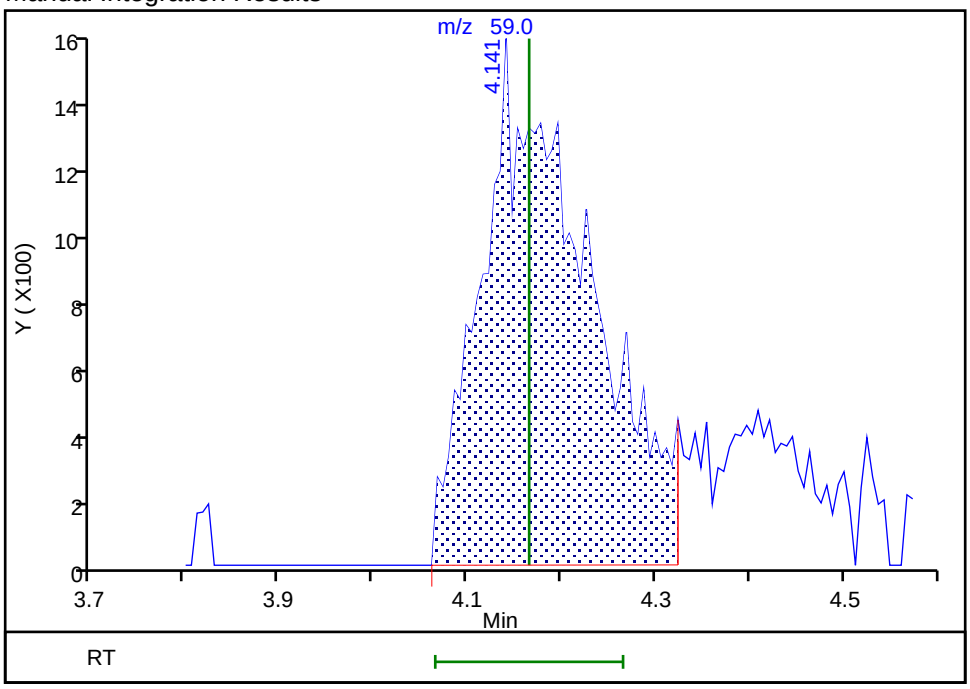
Processing Integration Results

RT: 4.14
Area: 11556
Amount: 3.739788
Amount Units: ug/l



Manual Integration Results

RT: 4.14
Area: 12195
Amount: 3.916172
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:48:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

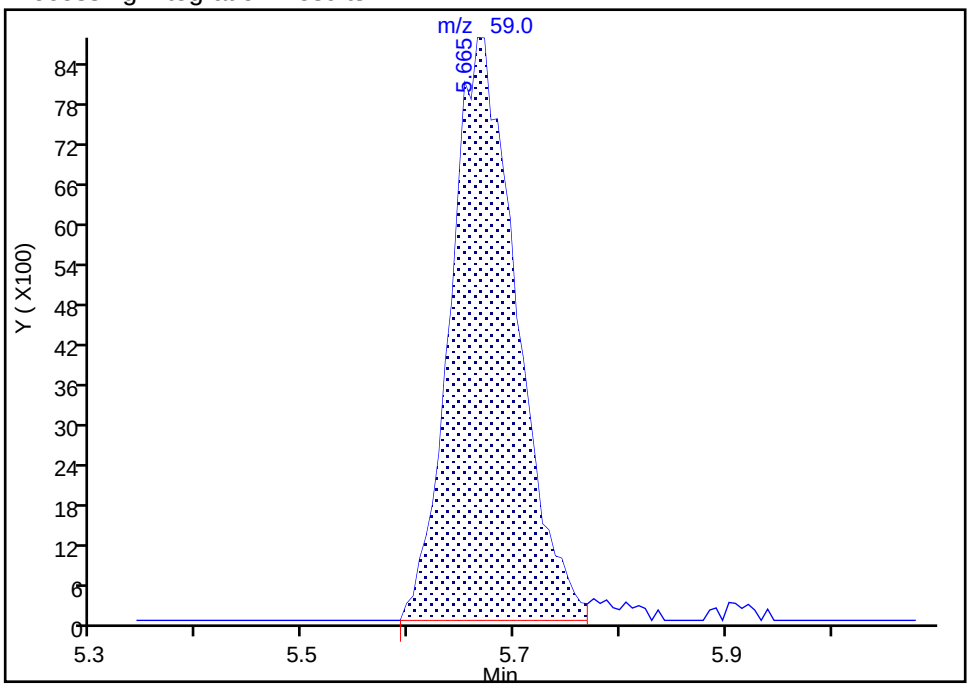
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

35 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

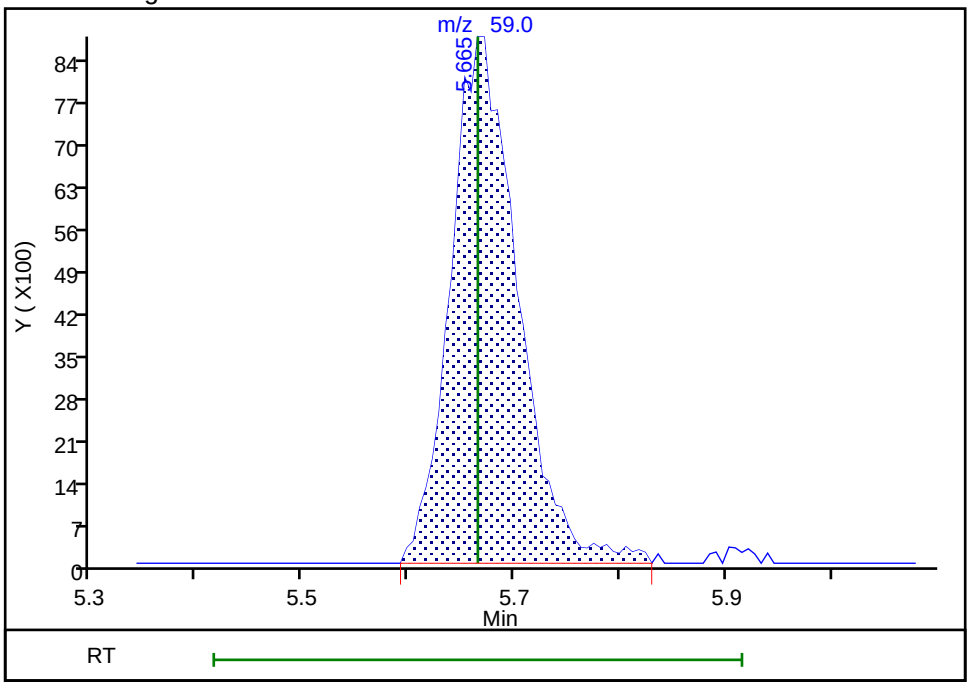
Processing Integration Results

RT: 5.67
Area: 37719
Amount: 0.192733
Amount Units: ug/l



Manual Integration Results

RT: 5.67
Area: 38483
Amount: 0.196090
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 11:53:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

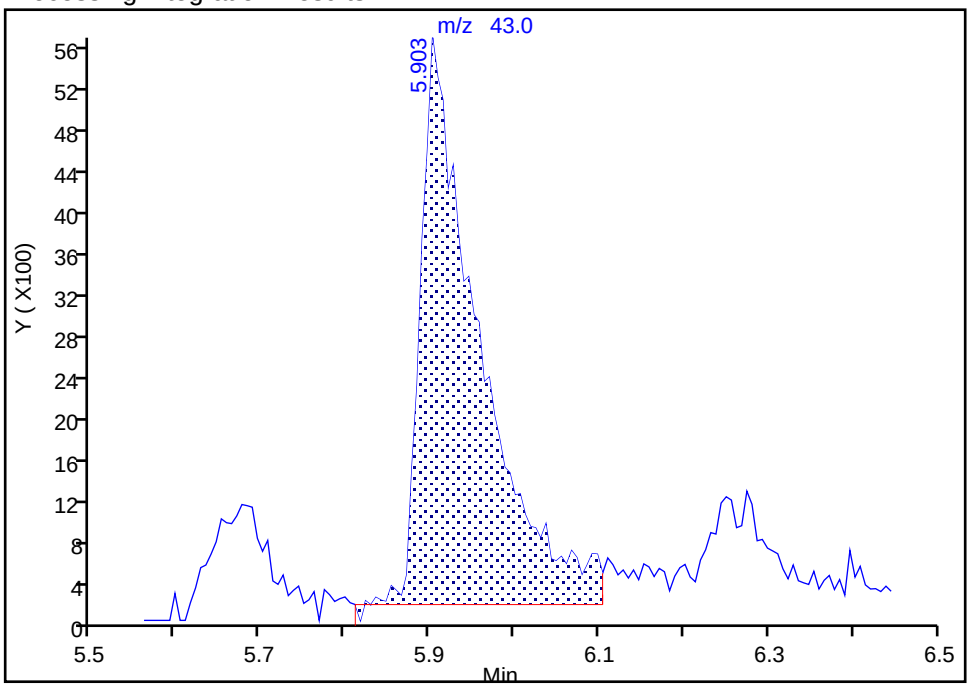
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

36 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

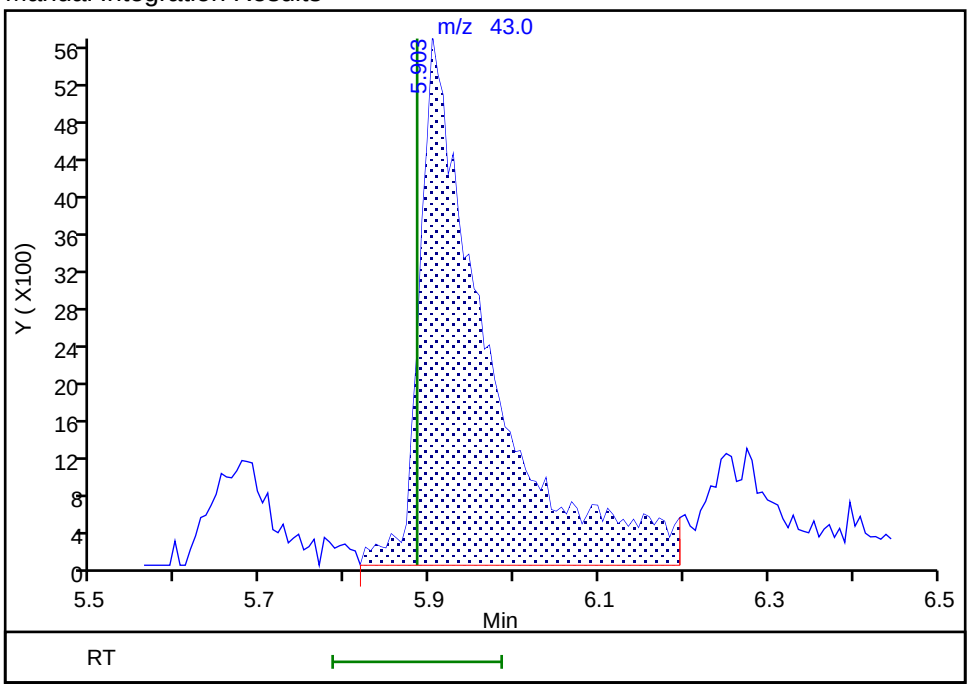
Processing Integration Results

RT: 5.90
Area: 26427
Amount: 1.654422
Amount Units: ug/l



Manual Integration Results

RT: 5.90
Area: 31693
Amount: 1.938446
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 11:53:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

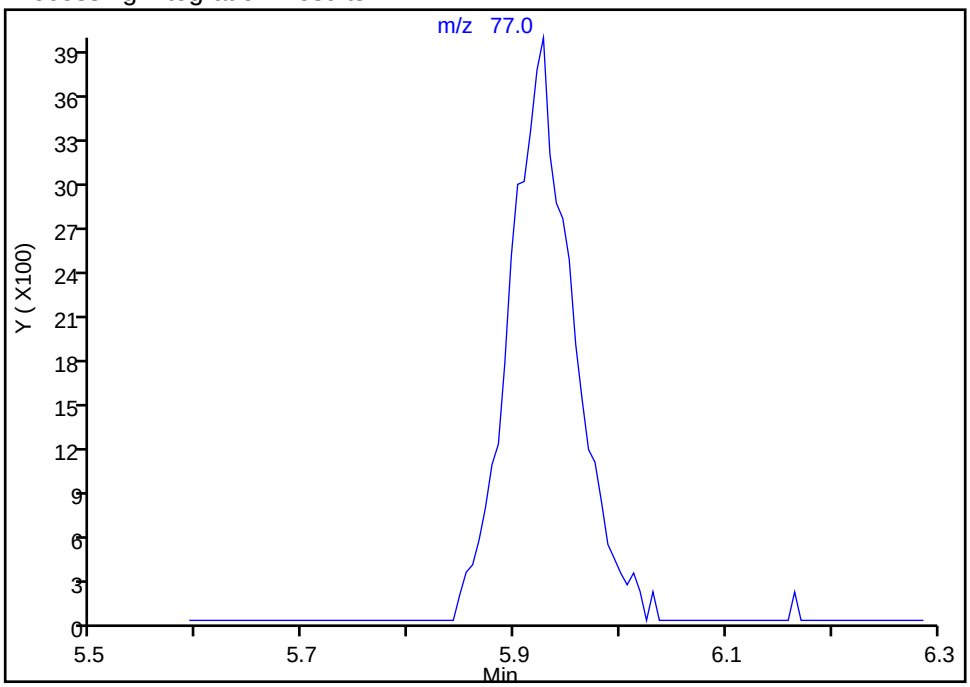
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

38 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

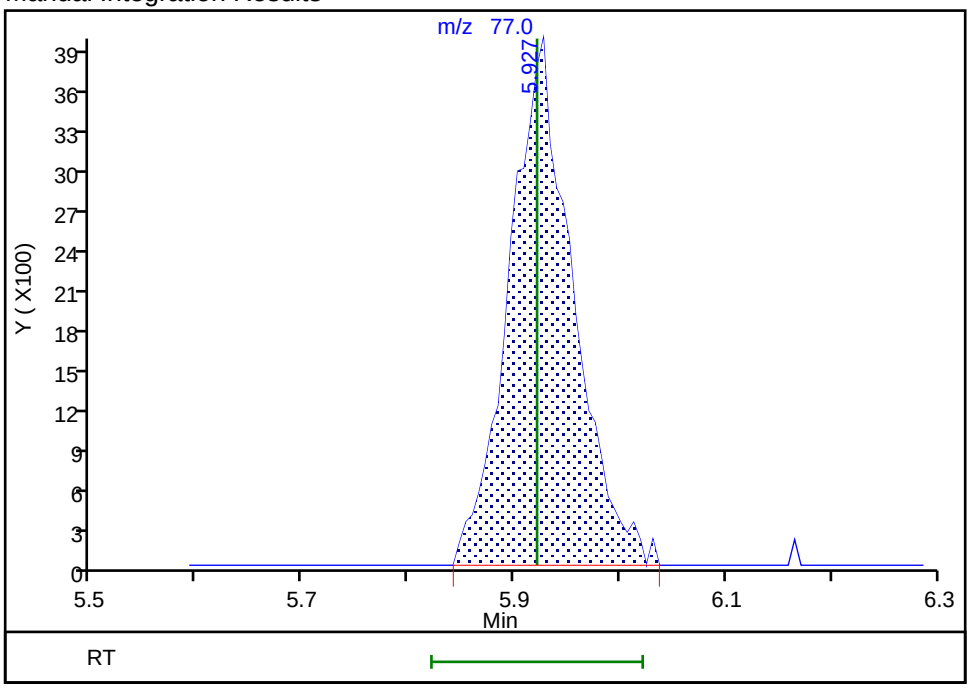
Not Detected
Expected RT: 5.92

Processing Integration Results



Manual Integration Results

RT: 5.93
Area: 16422
Amount: 0.188703
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:49:00
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

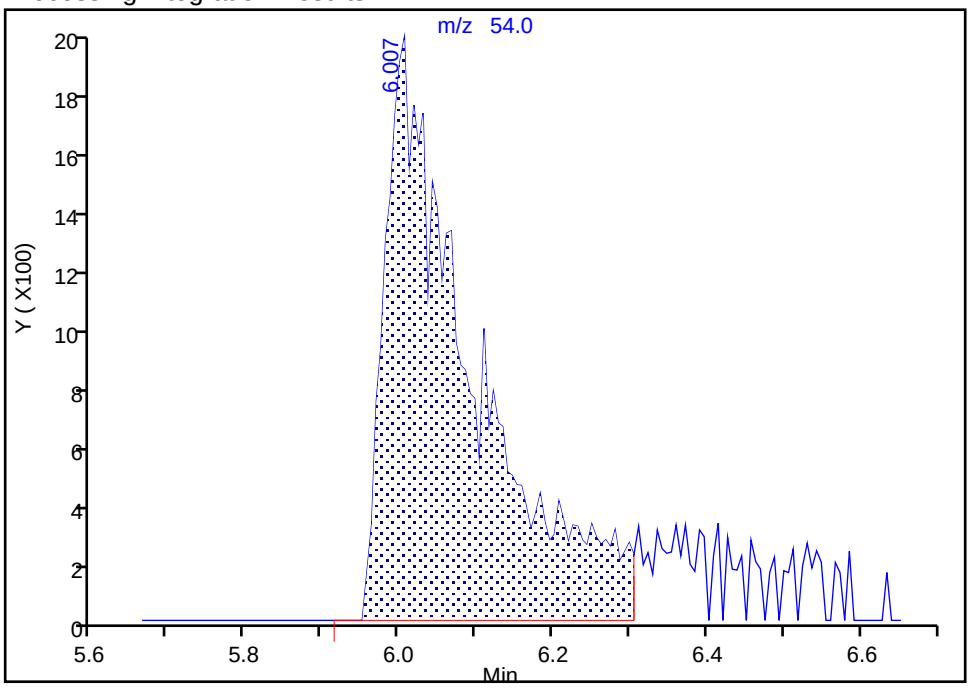
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

40 Propionitrile, CAS: 107-12-0

Signal: 1

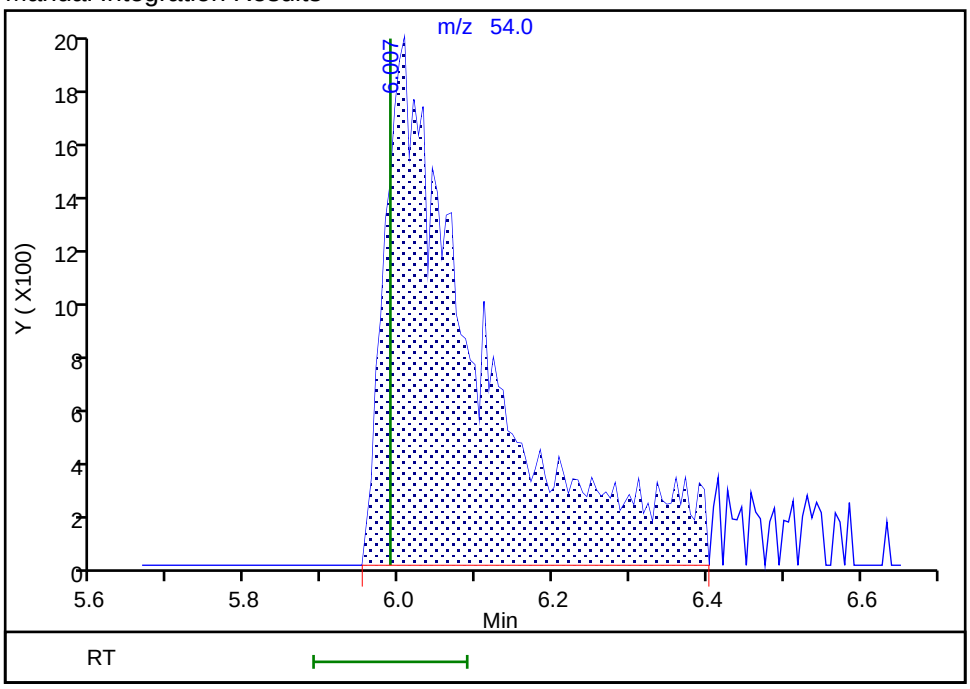
Processing Integration Results

RT: 6.01
Area: 14876
Amount: 3.488151
Amount Units: ug/l



Manual Integration Results

RT: 6.01
Area: 16183
Amount: 3.753536
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 11:54:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

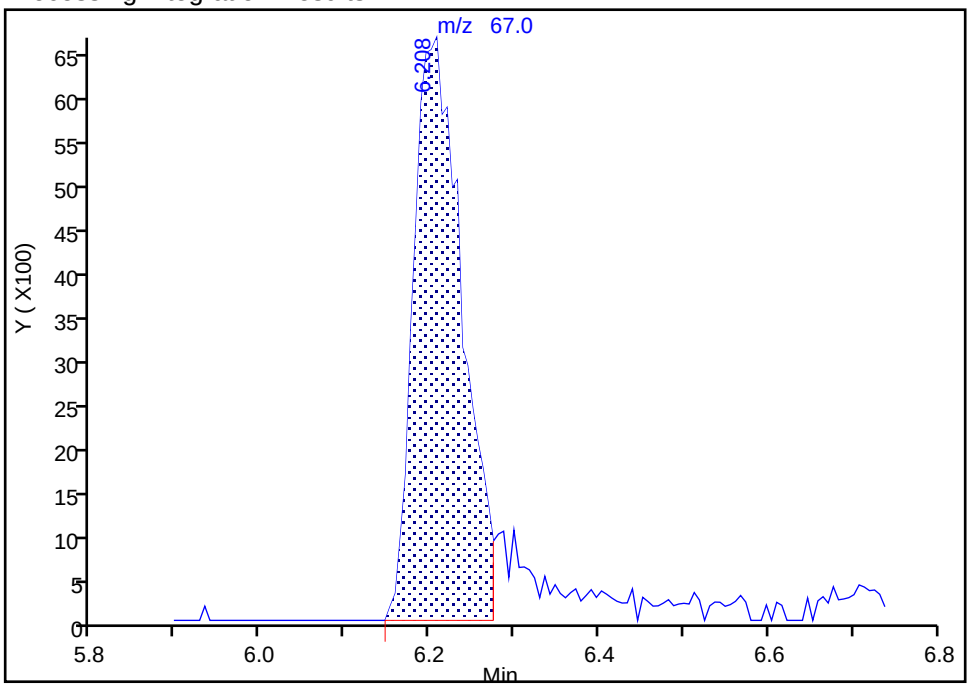
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

43 Methacrylonitrile, CAS: 126-98-7

Signal: 1

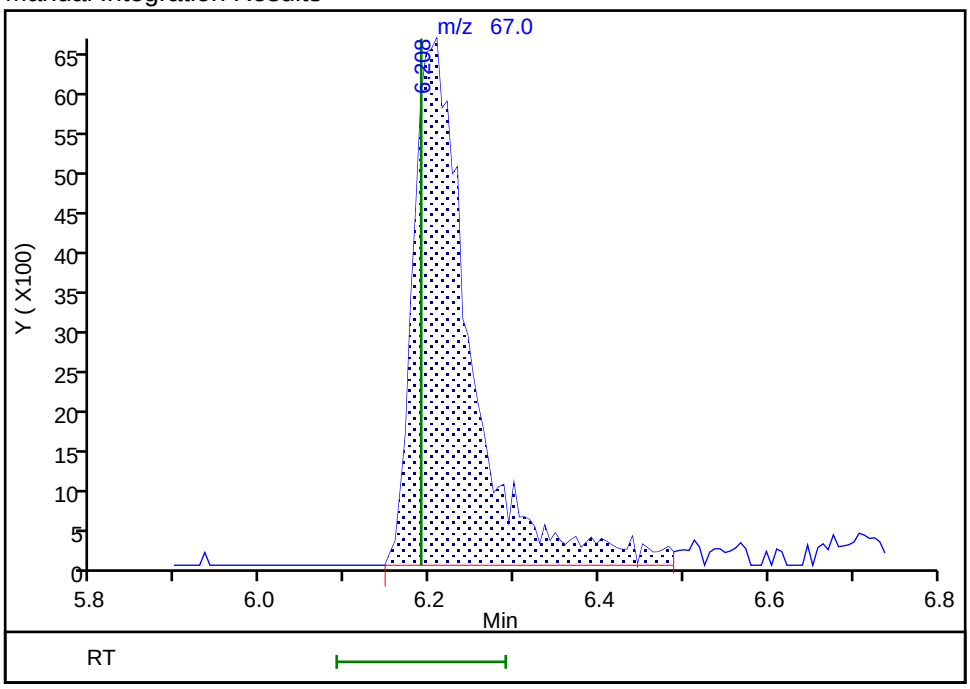
Processing Integration Results

RT: 6.21
Area: 26427
Amount: 1.672828
Amount Units: ug/l



Manual Integration Results

RT: 6.21
Area: 31122
Amount: 1.929071
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:50:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

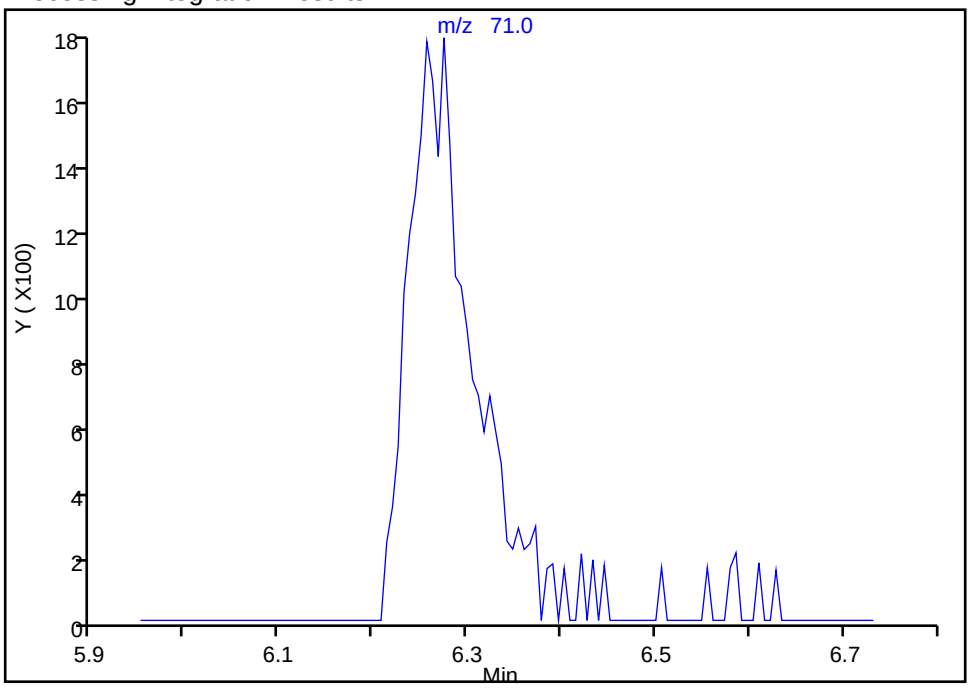
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

45 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

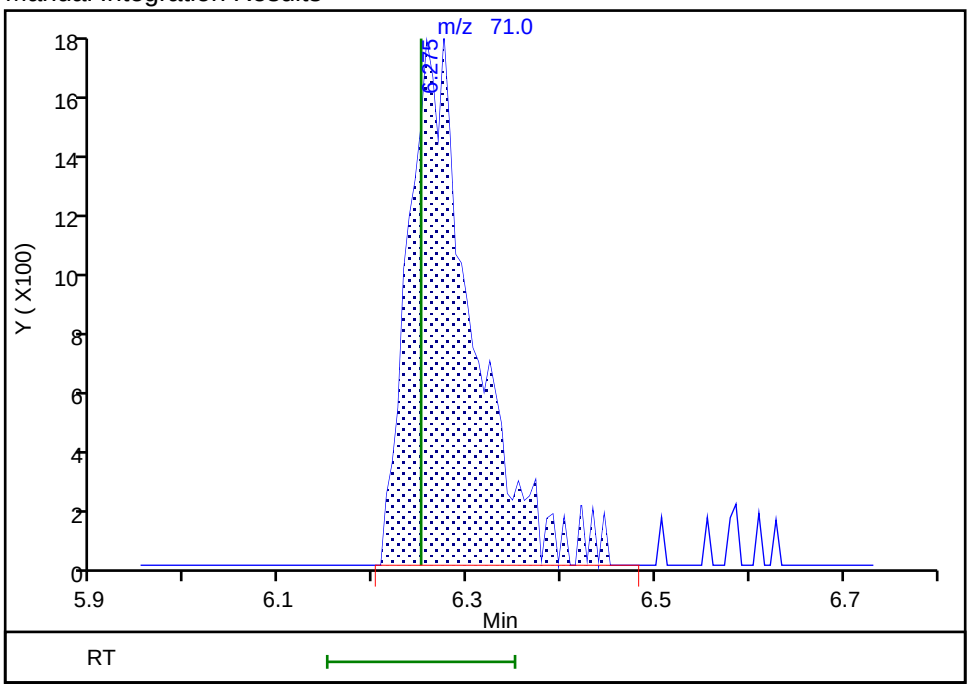
Not Detected
Expected RT: 6.25

Processing Integration Results



Manual Integration Results

RT: 6.27
Area: 8374
Amount: 1.778560
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:50:27
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

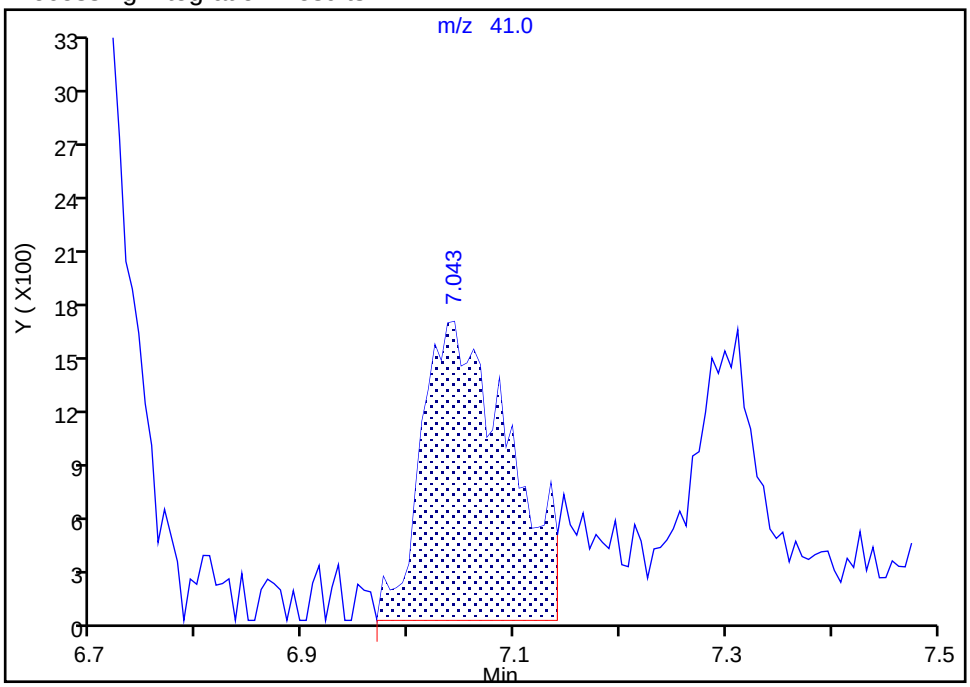
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

52 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

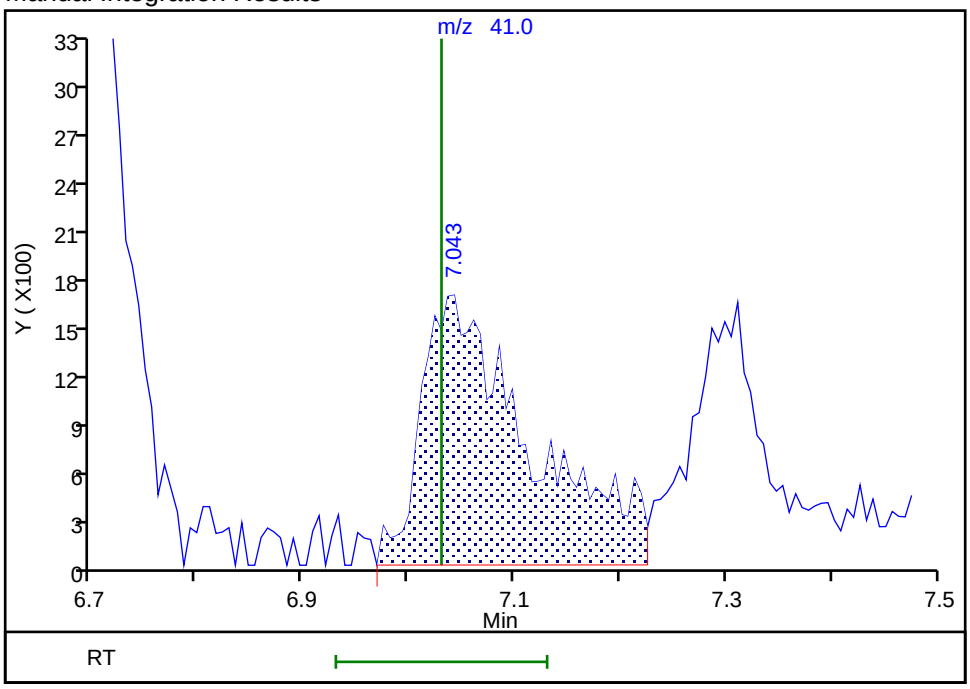
Processing Integration Results

RT: 7.04
Area: 9424
Amount: 8.387009
Amount Units: ug/l



Manual Integration Results

RT: 7.04
Area: 11714
Amount: 10.130091
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:51:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

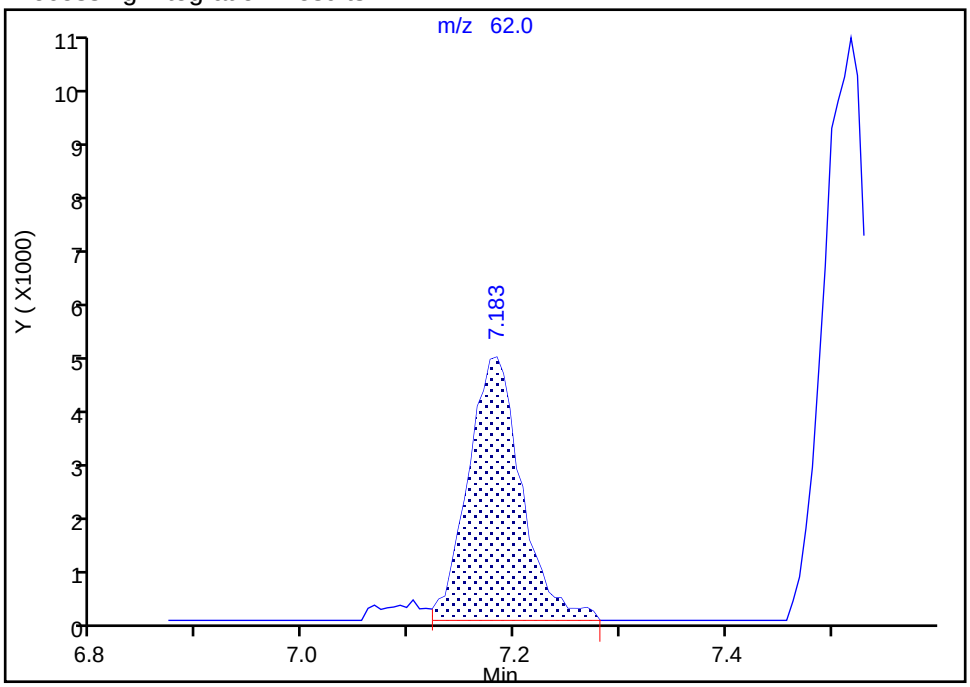
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

55 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

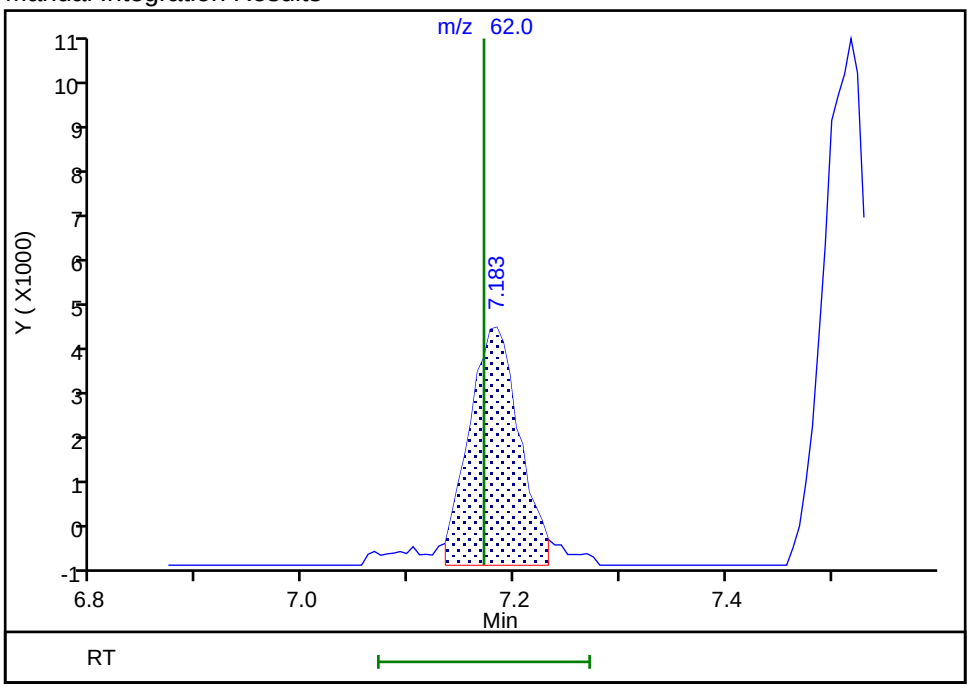
Processing Integration Results

RT: 7.18
Area: 16227
Amount: 0.222433
Amount Units: ug/l



Manual Integration Results

RT: 7.18
Area: 15366
Amount: 0.212422
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:00:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

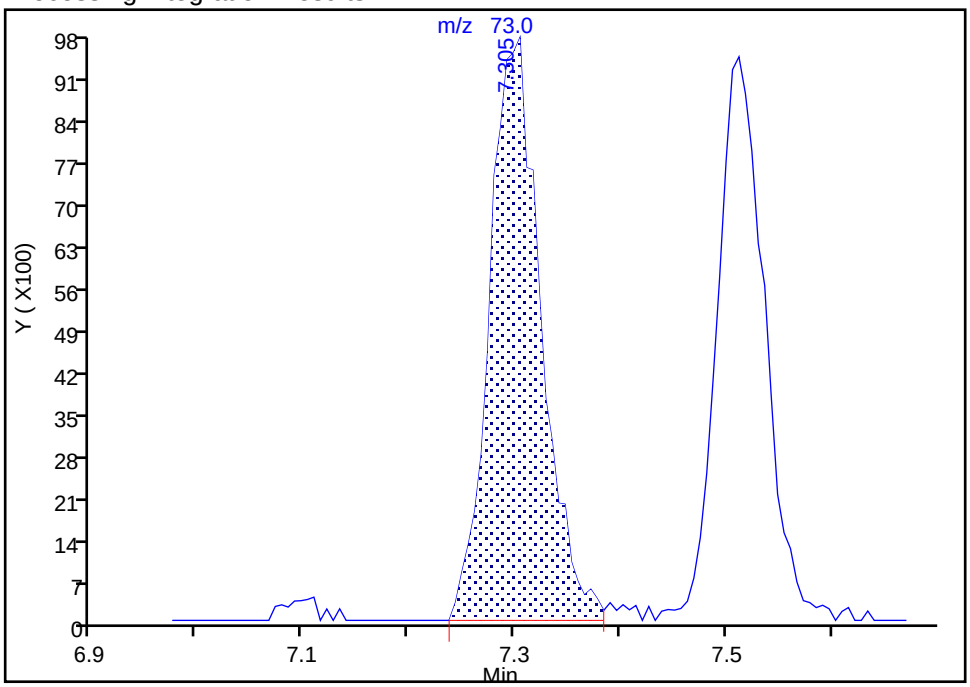
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

56 Tert-amyl methyl ether, CAS: 994-05-8

Signal: 1

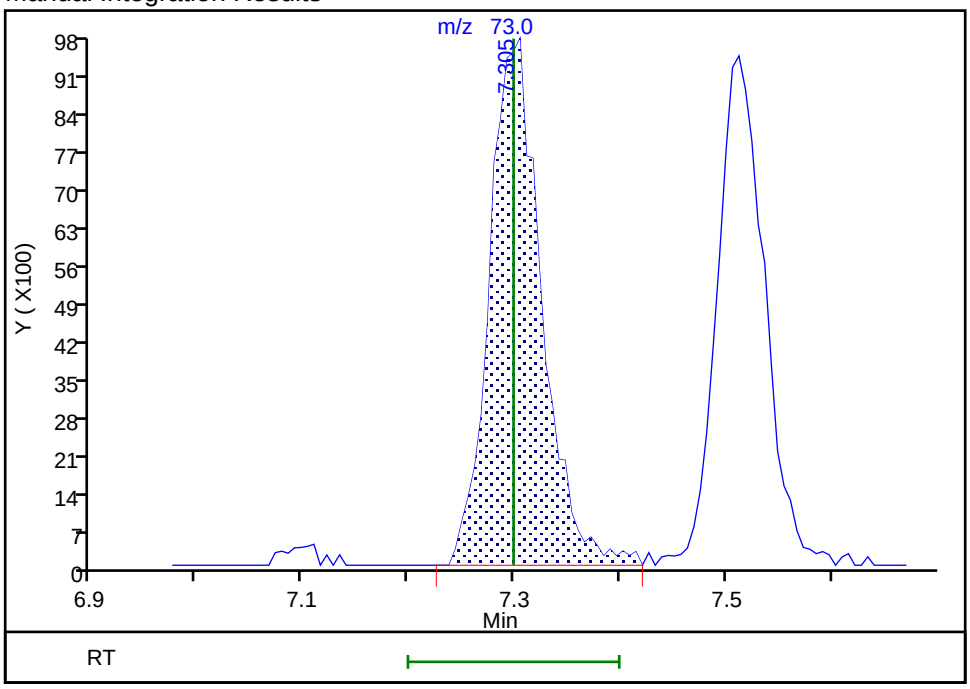
Processing Integration Results

RT: 7.31
Area: 32847
Amount: 0.188335
Amount Units: ug/l



Manual Integration Results

RT: 7.31
Area: 33265
Amount: 0.190406
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:01:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

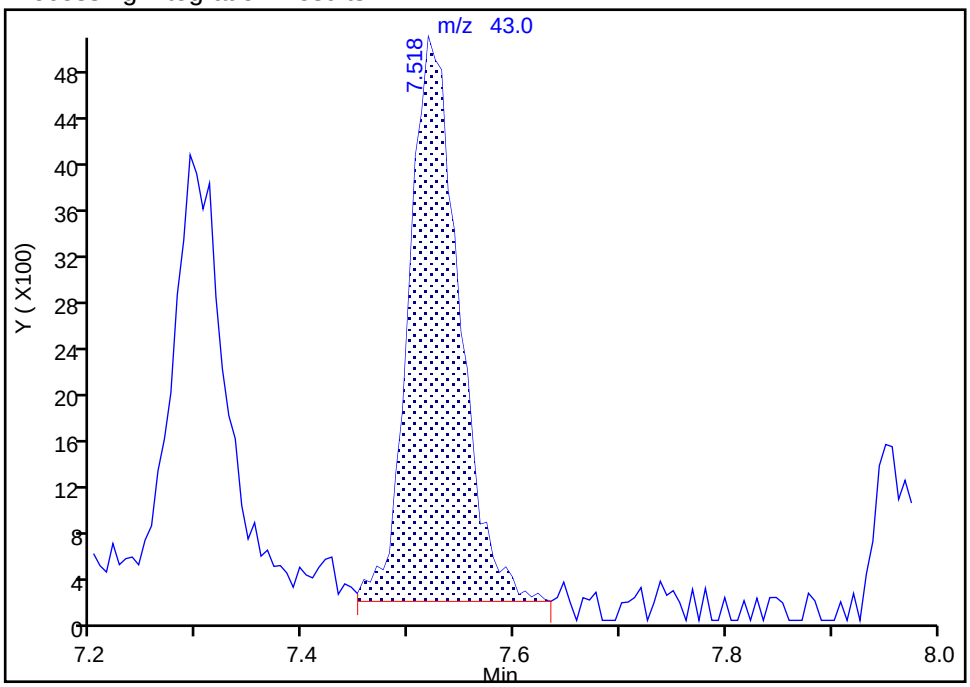
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

58 n-Heptane, CAS: 142-82-5

Signal: 1

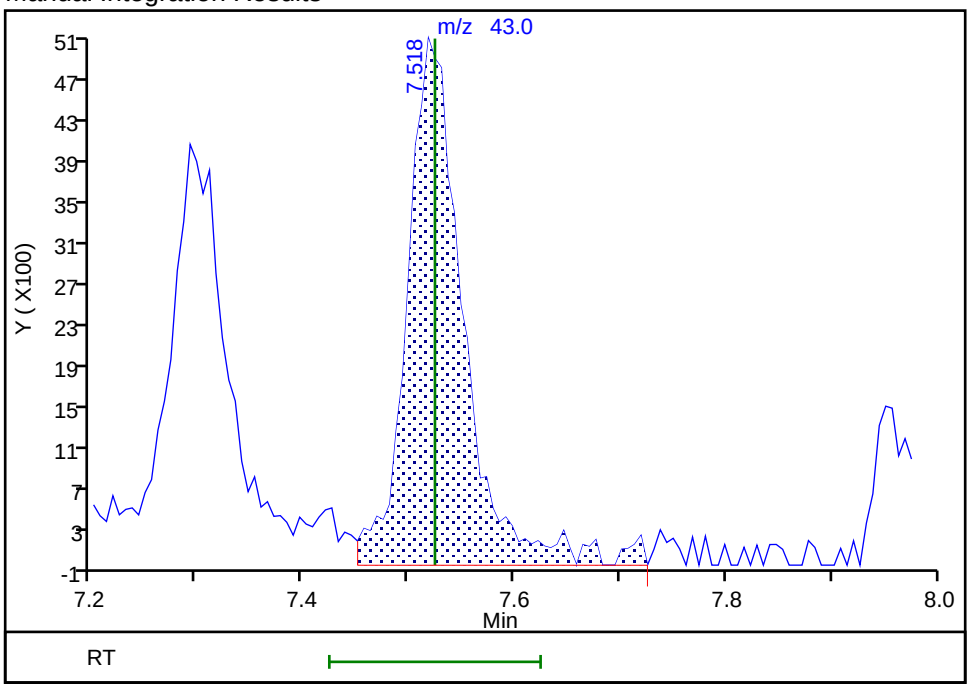
Processing Integration Results

RT: 7.52
Area: 16253
Amount: 0.168580
Amount Units: ug/l



Manual Integration Results

RT: 7.52
Area: 18909
Amount: 0.192344
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:02:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

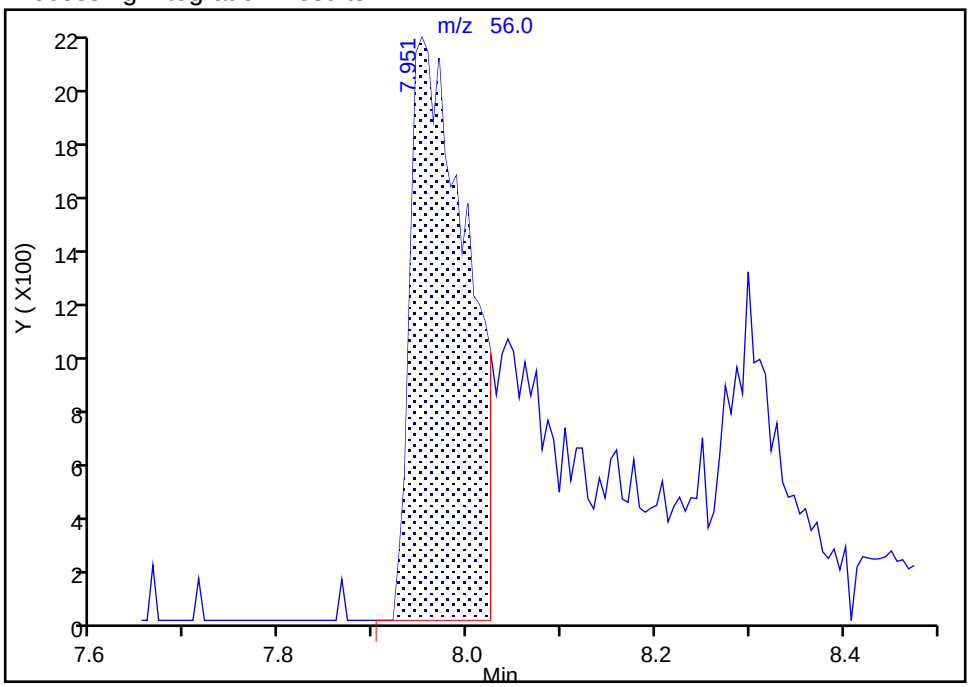
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

59 n-Butanol, CAS: 71-36-3

Signal: 1

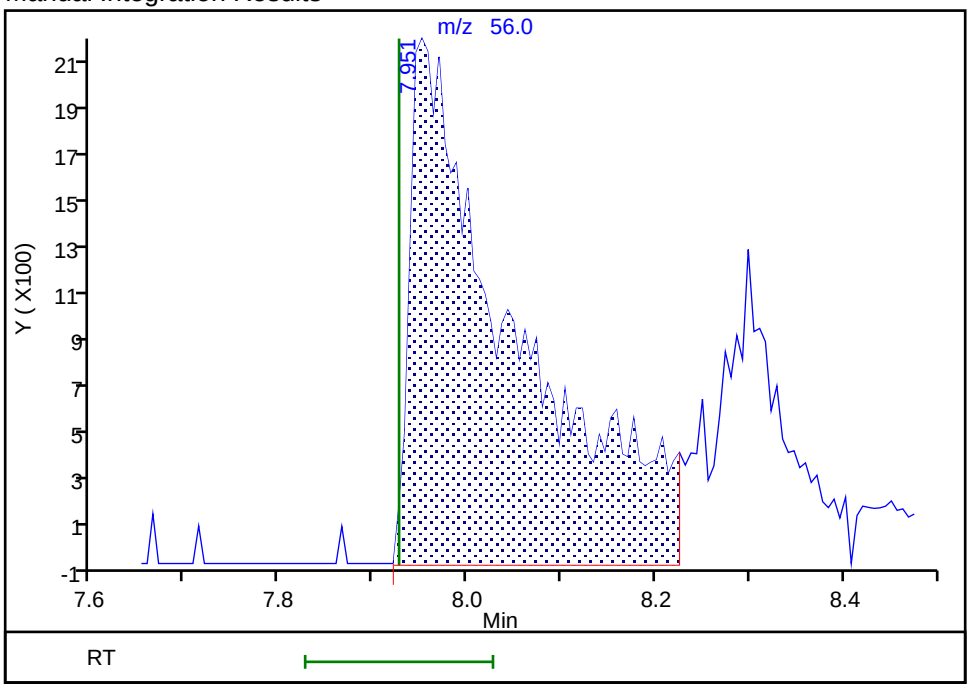
Processing Integration Results

RT: 7.95
Area: 8897
Amount: 69.162171
Amount Units: ug/l



Manual Integration Results

RT: 7.95
Area: 16368
Amount: 16.690892
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:02:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

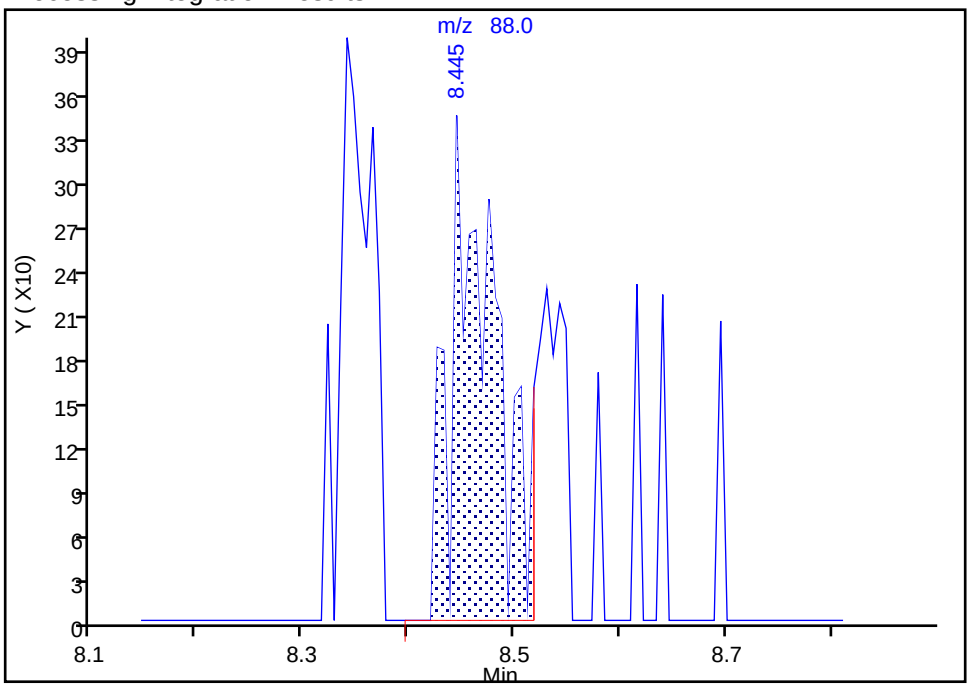
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

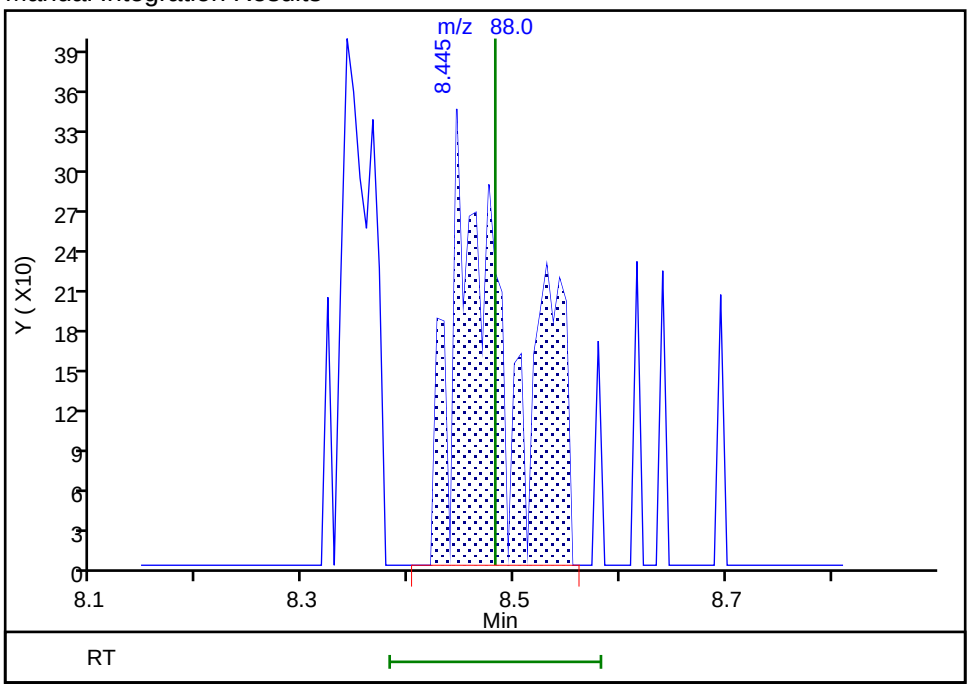
Processing Integration Results

RT: 8.45
Area: 1014
Amount: 5.539739
Amount Units: ug/l



Manual Integration Results

RT: 8.45
Area: 1384
Amount: 6.585628
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:52:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

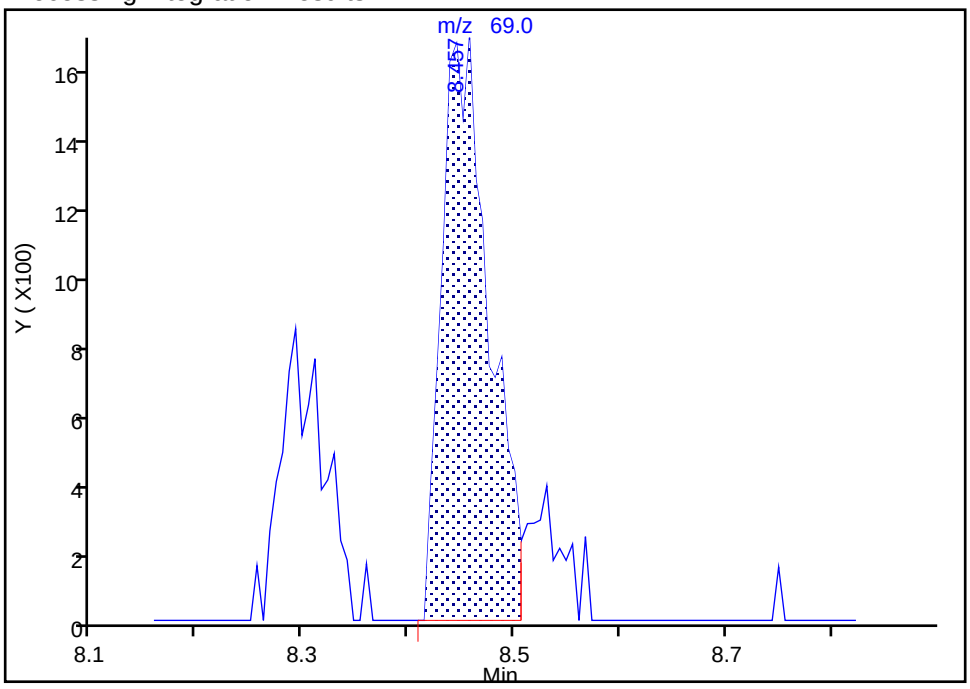
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

64 Methyl methacrylate, CAS: 80-62-6

Signal: 1

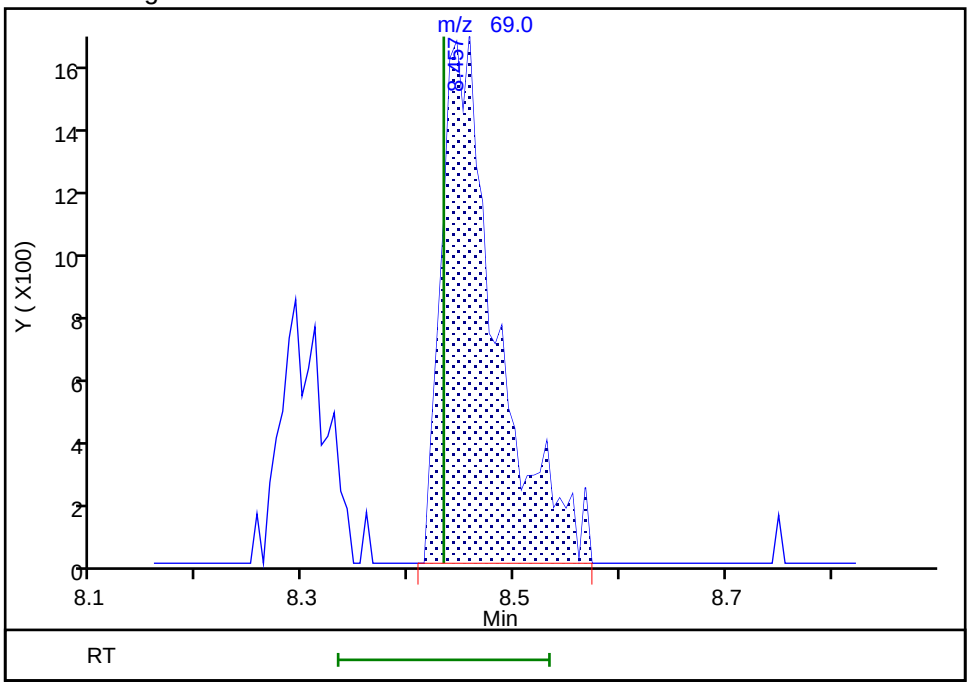
Processing Integration Results

RT: 8.46
Area: 5159
Amount: 0.160971
Amount Units: ug/l



Manual Integration Results

RT: 8.46
Area: 5968
Amount: 0.182916
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:03:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

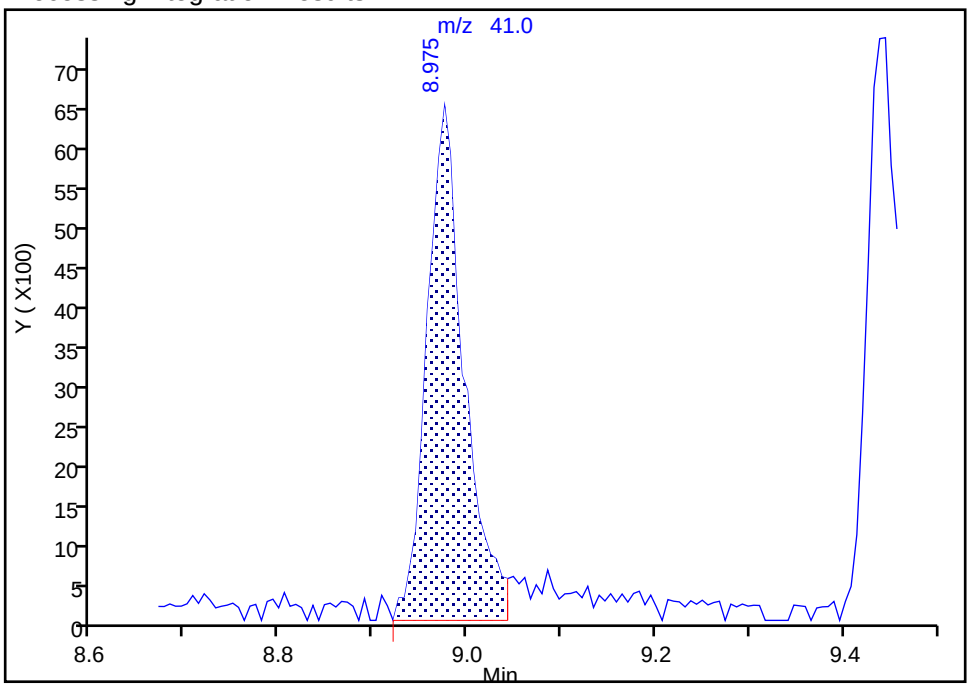
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 2-Nitropropane, CAS: 79-46-9

Signal: 1

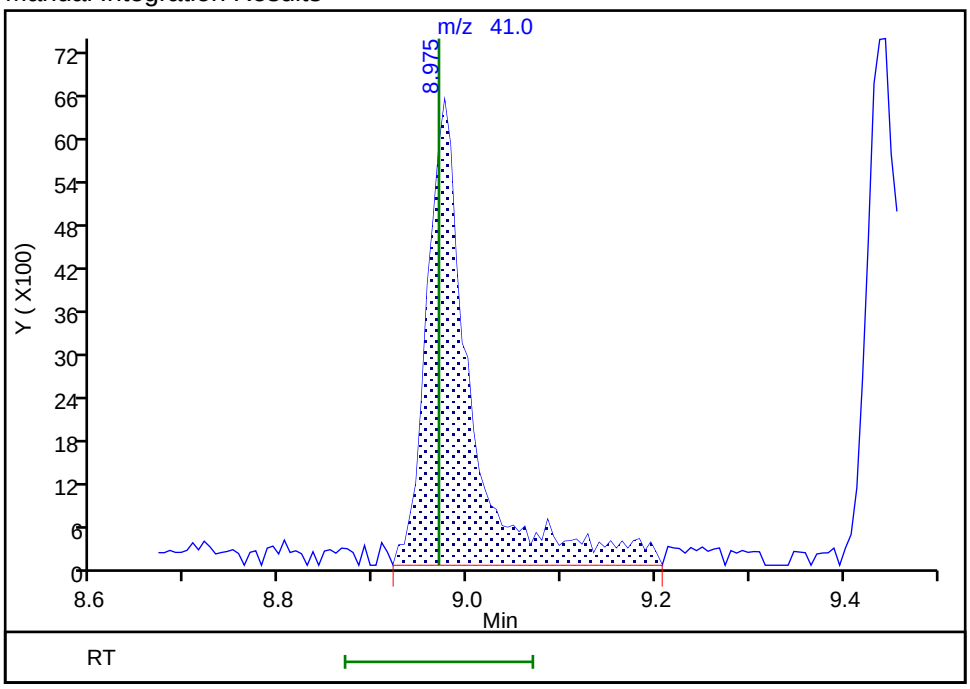
Processing Integration Results

RT: 8.98
Area: 17812
Amount: 1.707778
Amount Units: ug/l



Manual Integration Results

RT: 8.98
Area: 21058
Amount: 1.975091
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:52:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

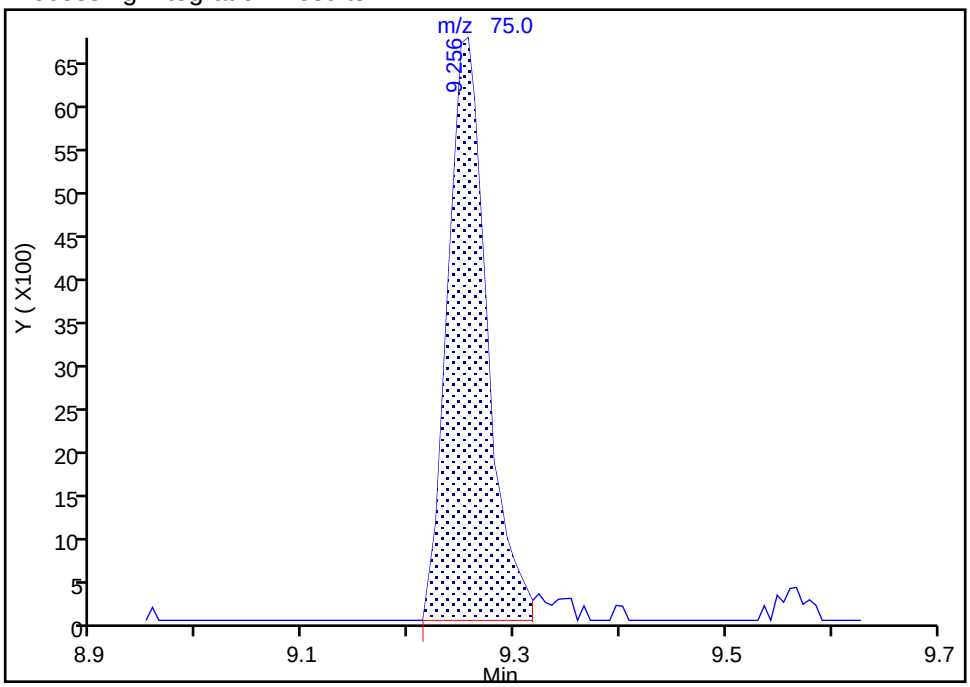
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

72 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

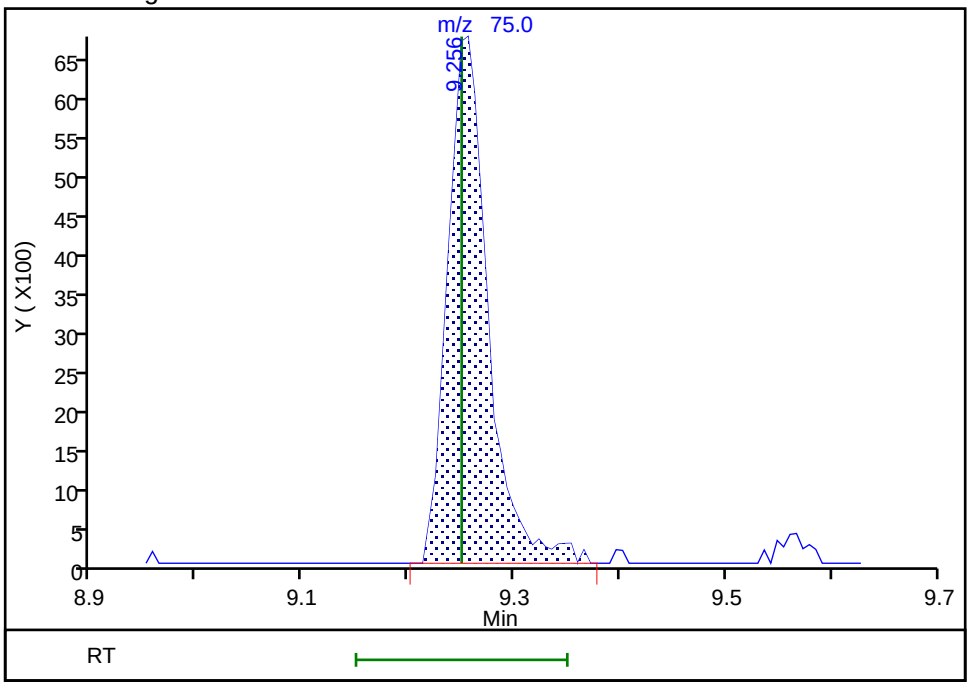
Processing Integration Results

RT: 9.26
Area: 17200
Amount: 0.184182
Amount Units: ug/l



Manual Integration Results

RT: 9.26
Area: 17787
Amount: 0.189616
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:03:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

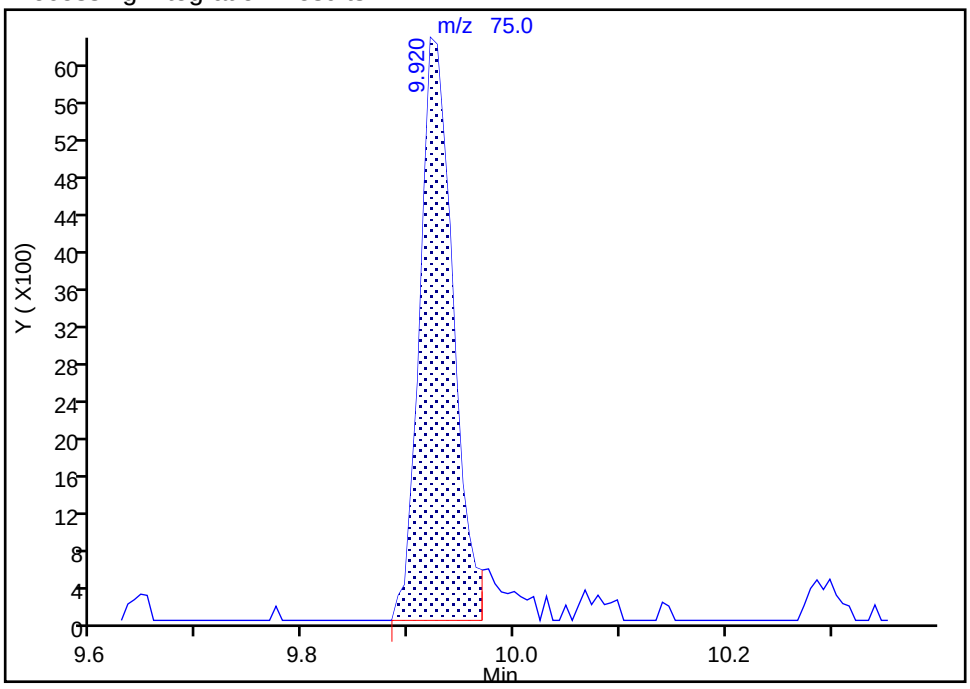
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

76 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

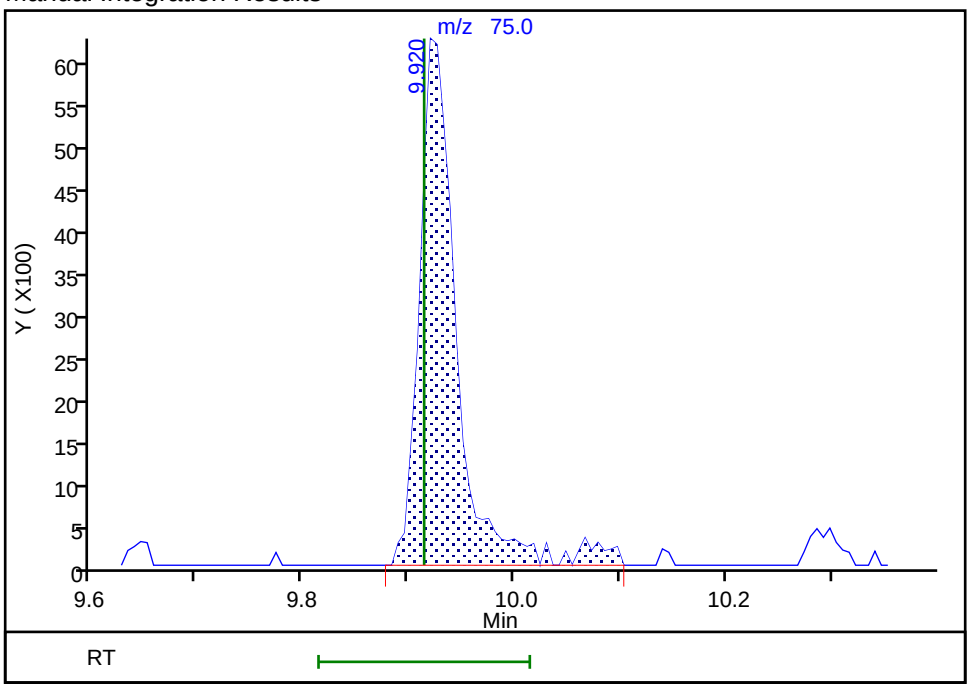
Processing Integration Results

RT: 9.92
Area: 13549
Amount: 0.173919
Amount Units: ug/l



Manual Integration Results

RT: 9.92
Area: 15184
Amount: 0.192027
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:52:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

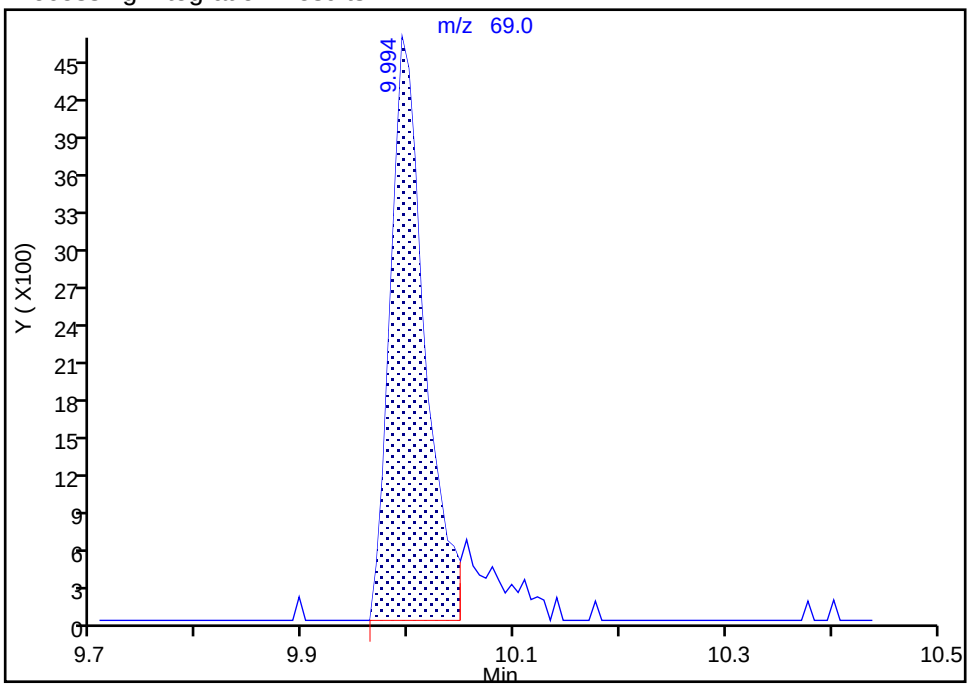
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

78 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

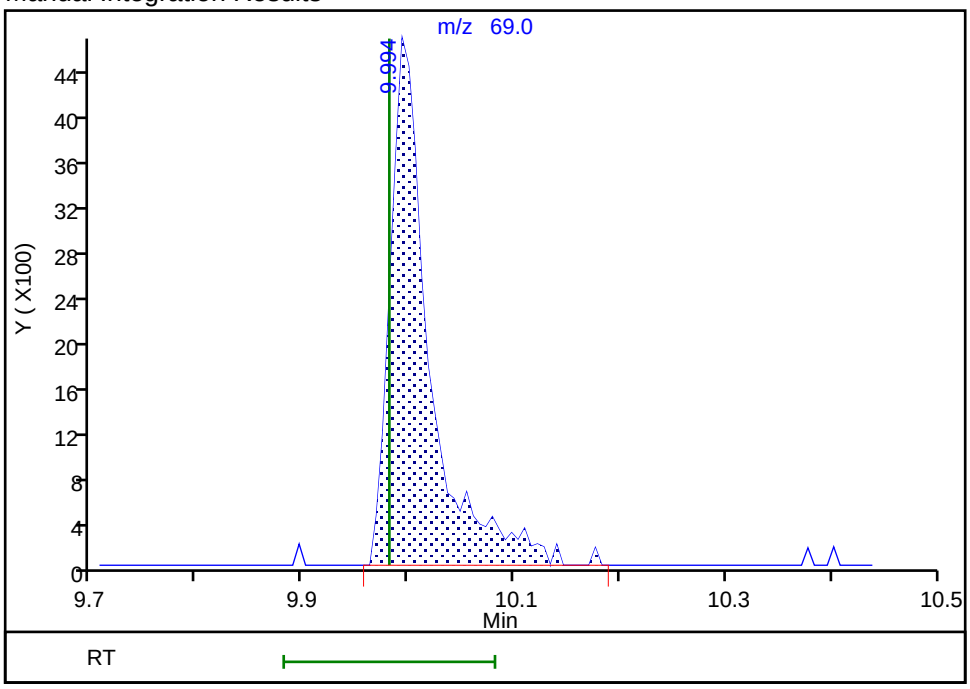
Processing Integration Results

RT: 9.99
Area: 10507
Amount: 0.159448
Amount Units: ug/l



Manual Integration Results

RT: 9.99
Area: 12129
Amount: 0.180883
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:53:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

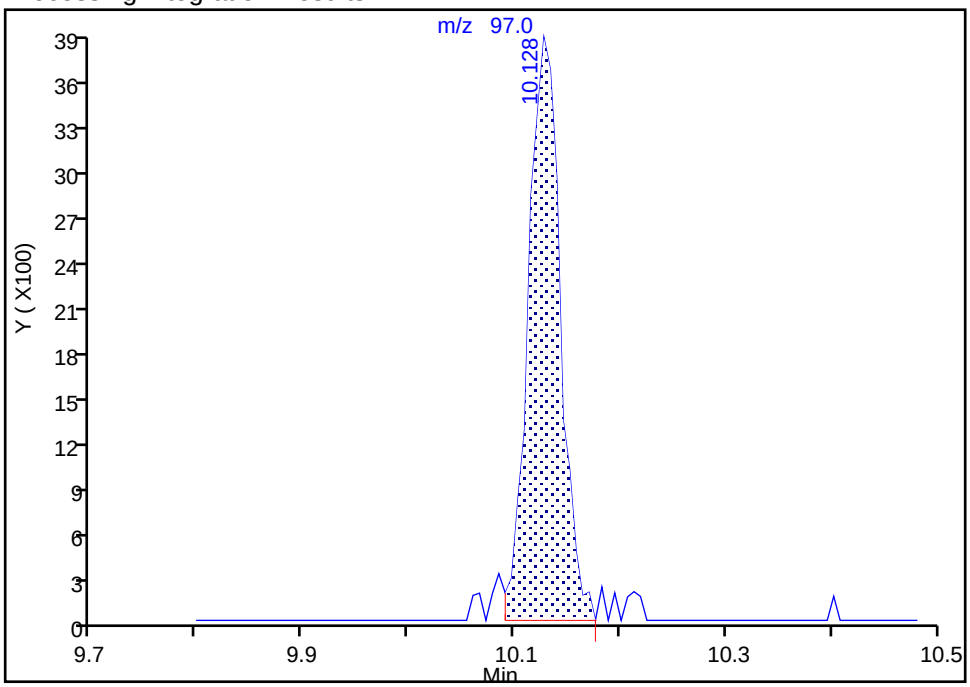
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

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

Signal: 1

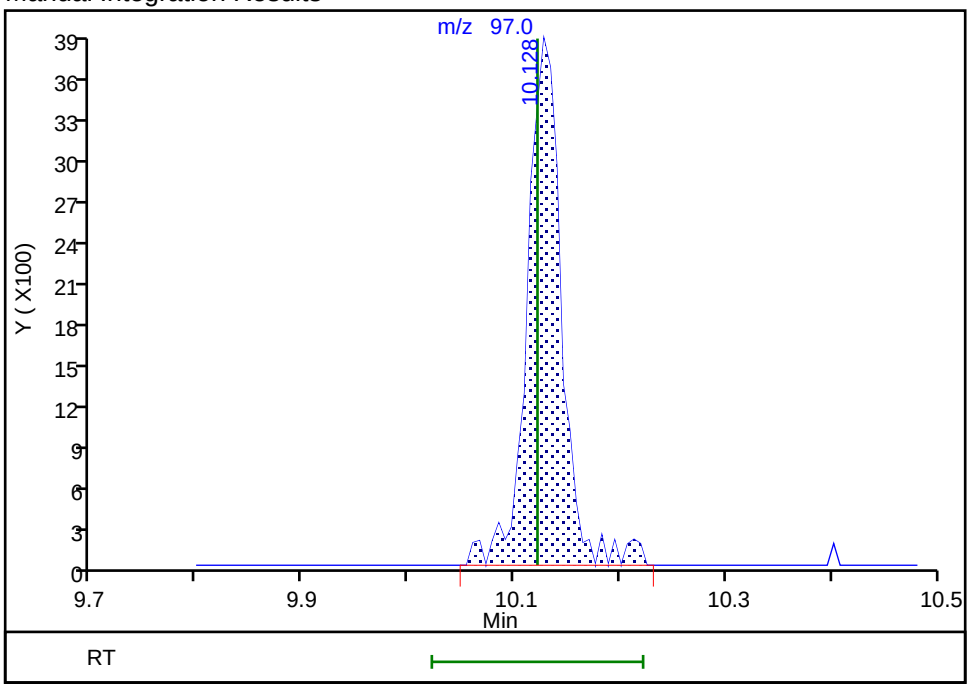
Processing Integration Results

RT: 10.13
Area: 8220
Amount: 0.192572
Amount Units: ug/l



Manual Integration Results

RT: 10.13
Area: 8862
Amount: 0.205405
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:03:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

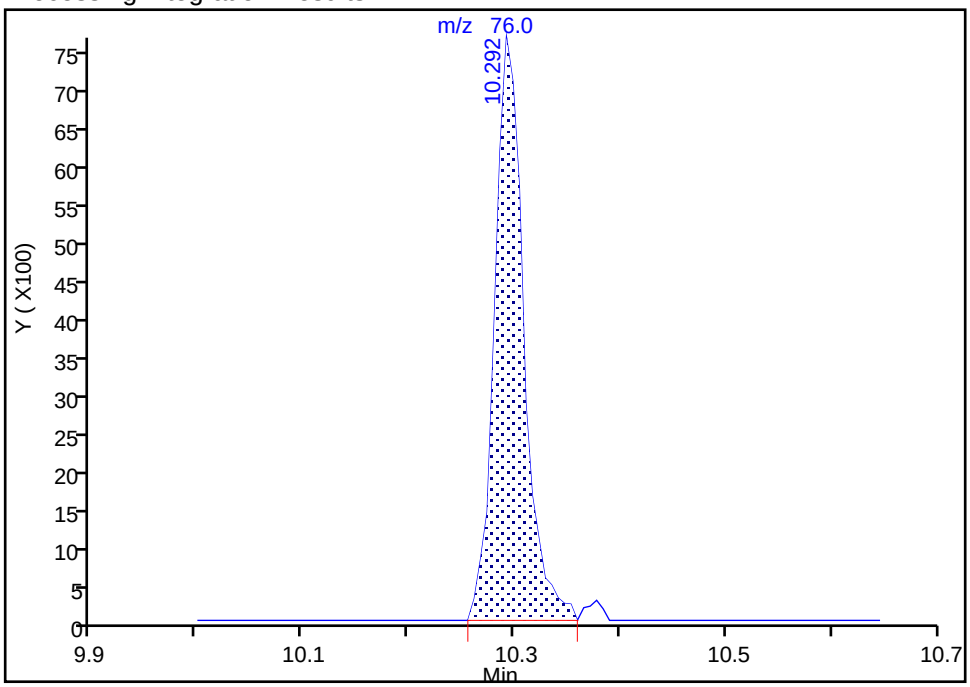
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

81 1,3-Dichloropropane, CAS: 142-28-9

Signal: 1

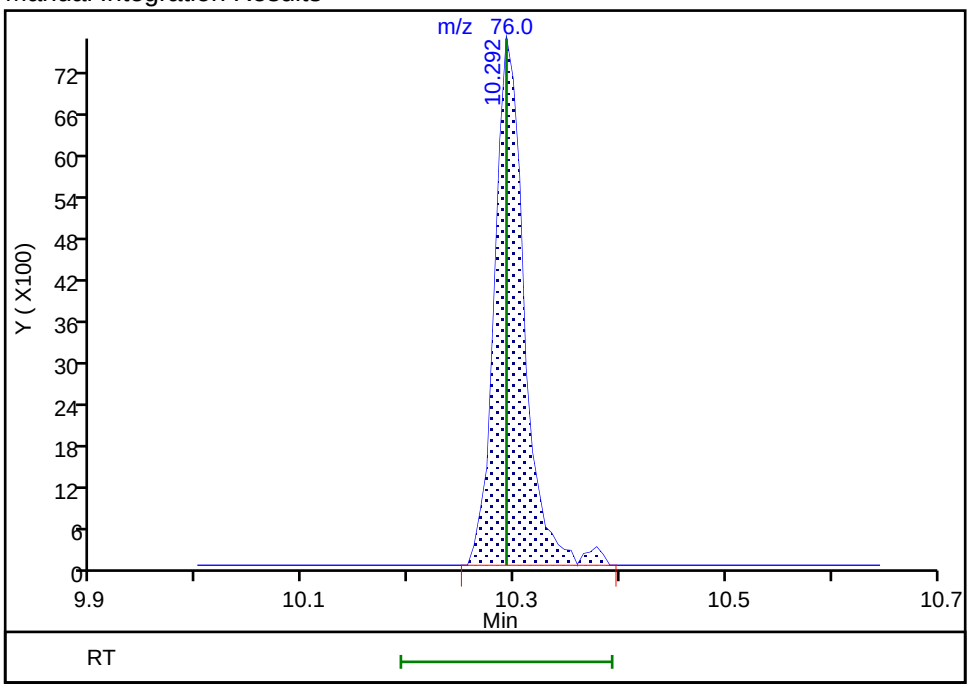
Processing Integration Results

RT: 10.29
Area: 14673
Amount: 0.190968
Amount Units: ug/l



Manual Integration Results

RT: 10.29
Area: 14952
Amount: 0.194096
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:04:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

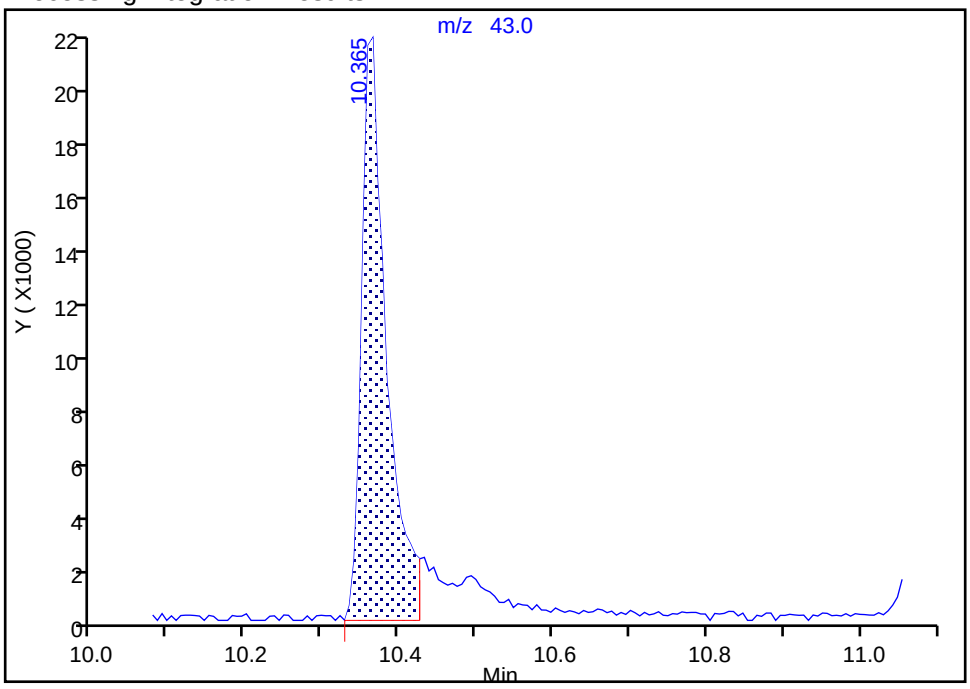
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

82 2-Hexanone, CAS: 591-78-6

Signal: 1

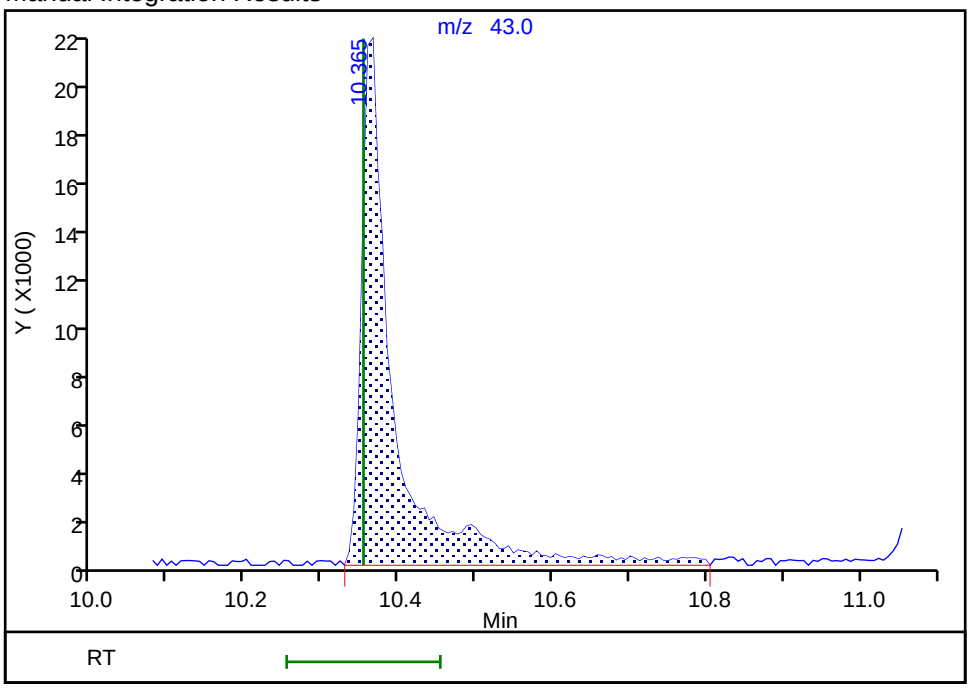
Processing Integration Results

RT: 10.37
Area: 49183
Amount: 1.542226
Amount Units: ug/l



Manual Integration Results

RT: 10.37
Area: 63799
Amount: 1.937123
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:06:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

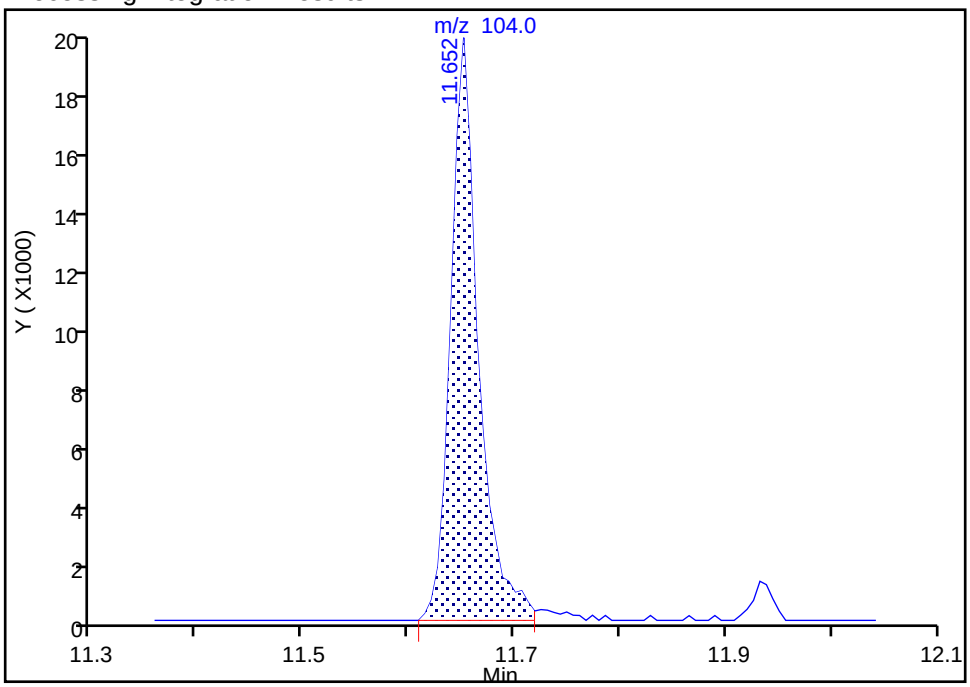
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

93 Styrene, CAS: 100-42-5

Signal: 1

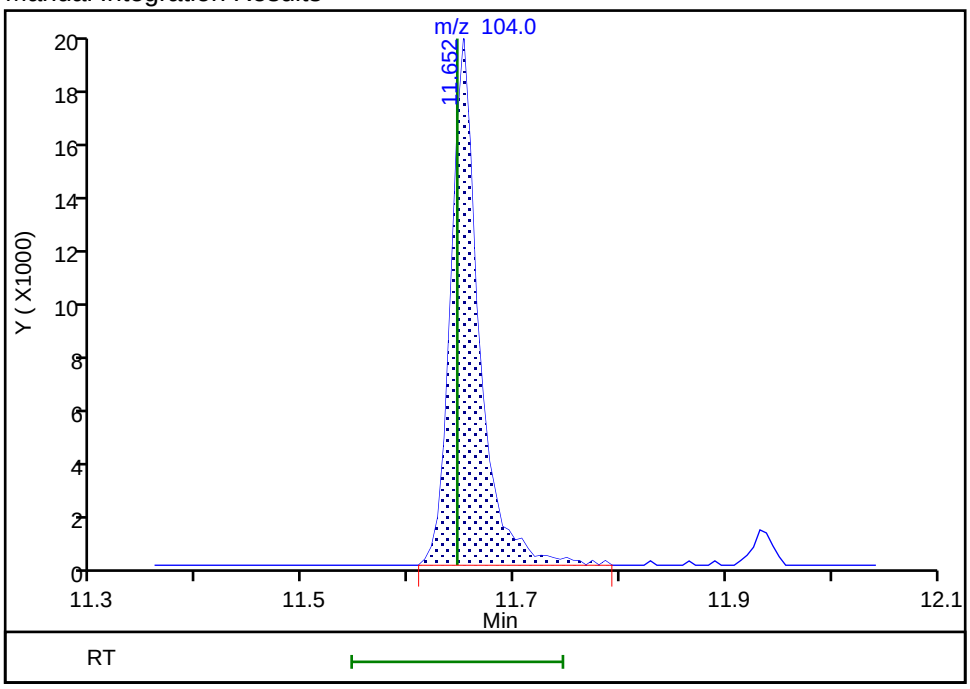
Processing Integration Results

RT: 11.65
Area: 36021
Amount: 0.185226
Amount Units: ug/l



Manual Integration Results

RT: 11.65
Area: 36816
Amount: 0.188763
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:07:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

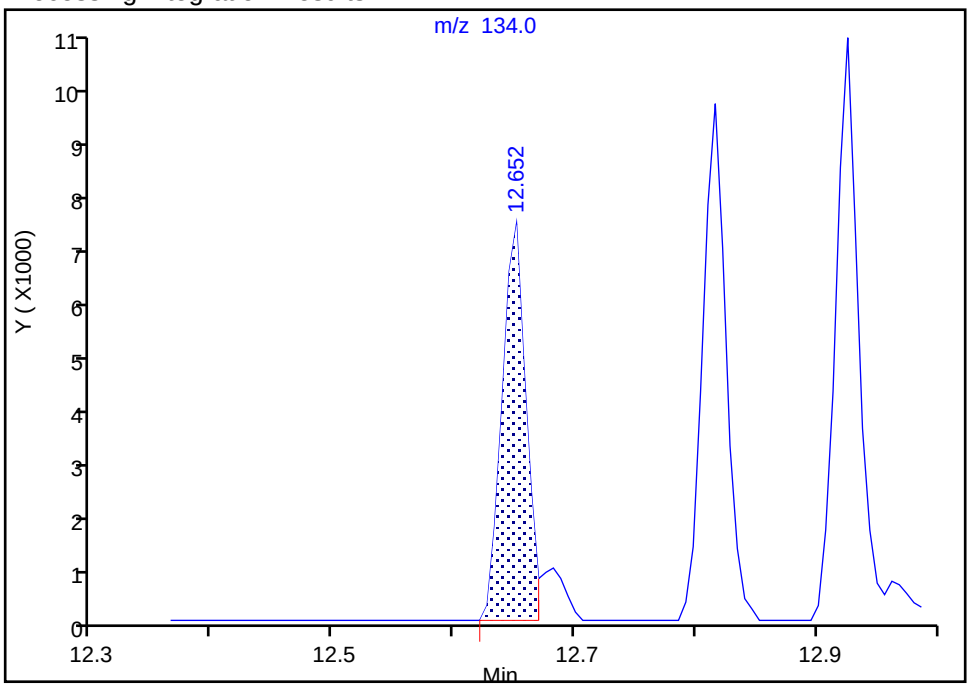
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

107 tert-Butylbenzene, CAS: 98-06-6

Signal: 1

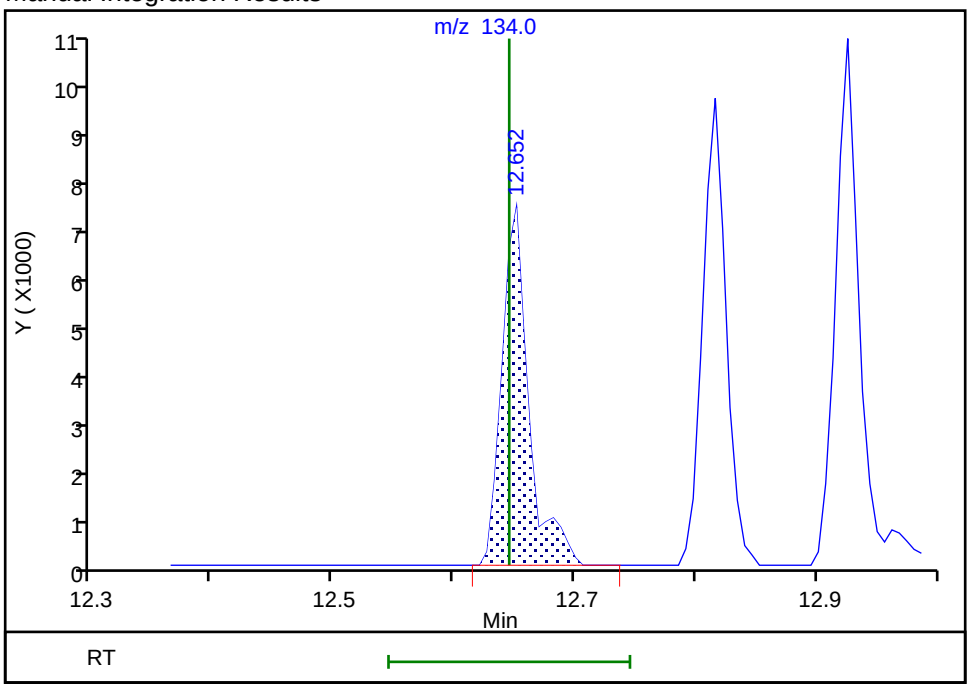
Processing Integration Results

RT: 12.65
Area: 9990
Amount: 0.179470
Amount Units: ug/l



Manual Integration Results

RT: 12.65
Area: 11161
Amount: 0.197538
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:53:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

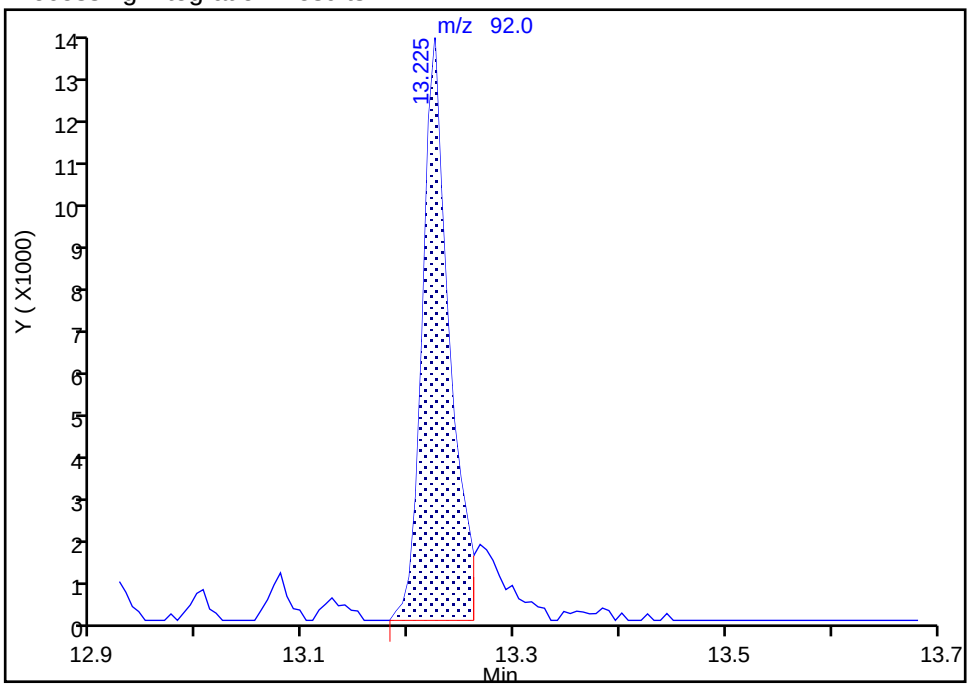
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

119 n-Butylbenzene, CAS: 104-51-8

Signal: 1

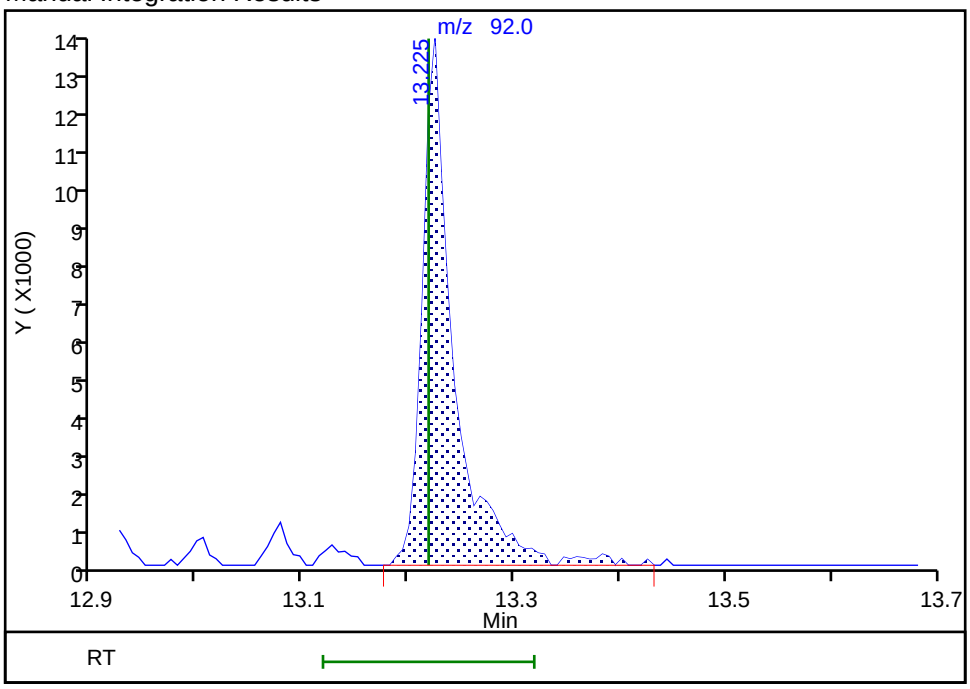
Processing Integration Results

RT: 13.22
Area: 24328
Amount: 0.167215
Amount Units: ug/l



Manual Integration Results

RT: 13.22
Area: 28518
Amount: 0.192064
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:54:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

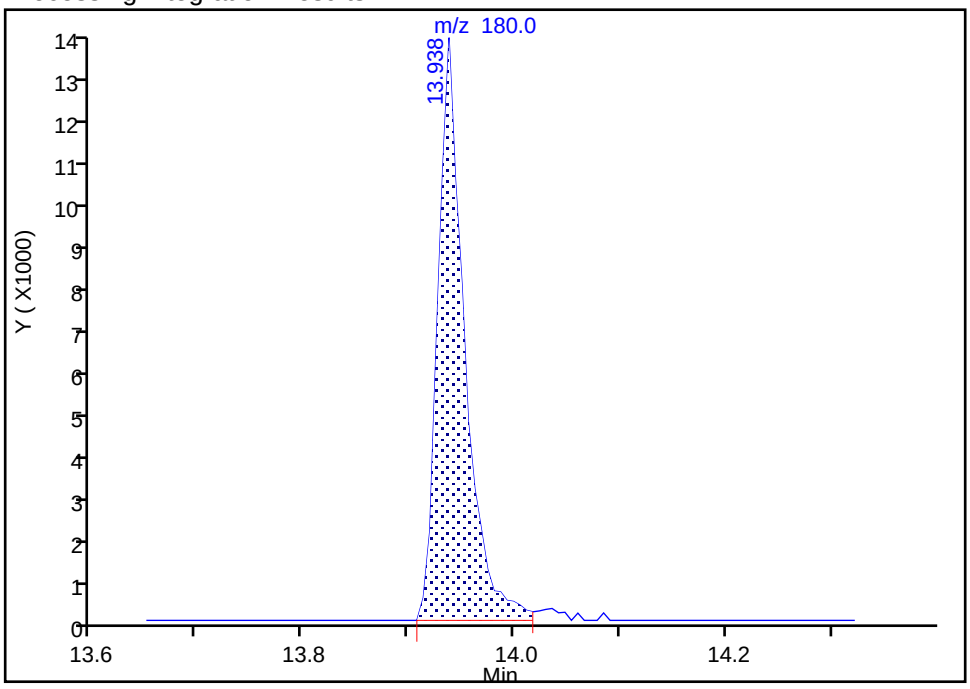
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

124 1,3,5-Trichlorobenzene, CAS: 108-70-3

Signal: 1

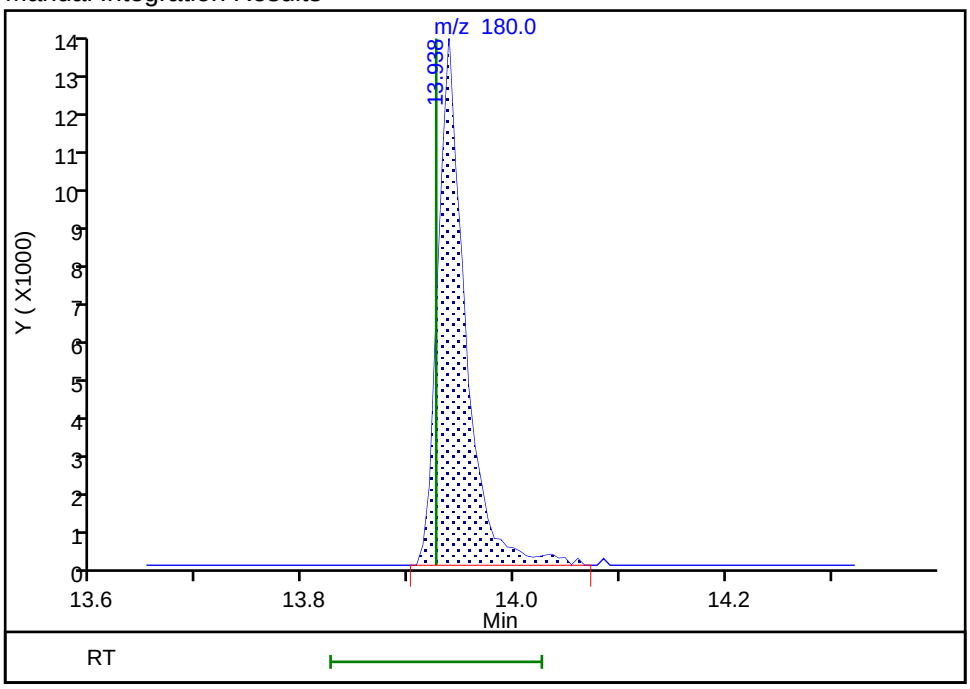
Processing Integration Results

RT: 13.94
Area: 23086
Amount: 0.193755
Amount Units: ug/l



Manual Integration Results

RT: 13.94
Area: 23542
Amount: 0.197043
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:08:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

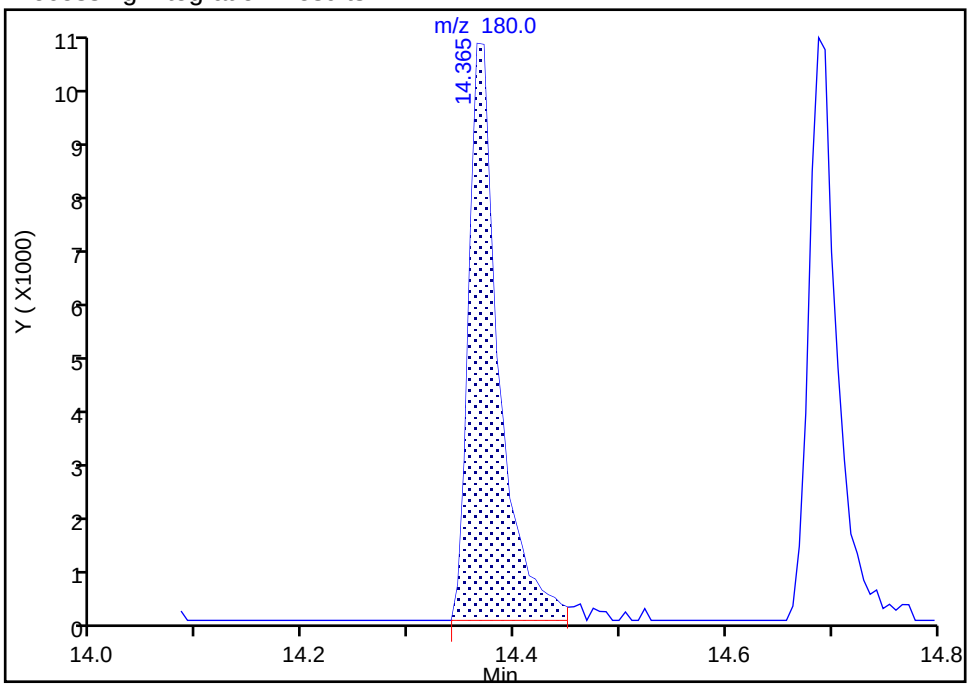
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

125 1,2,4-Trichlorobenzene, CAS: 120-82-1

Signal: 1

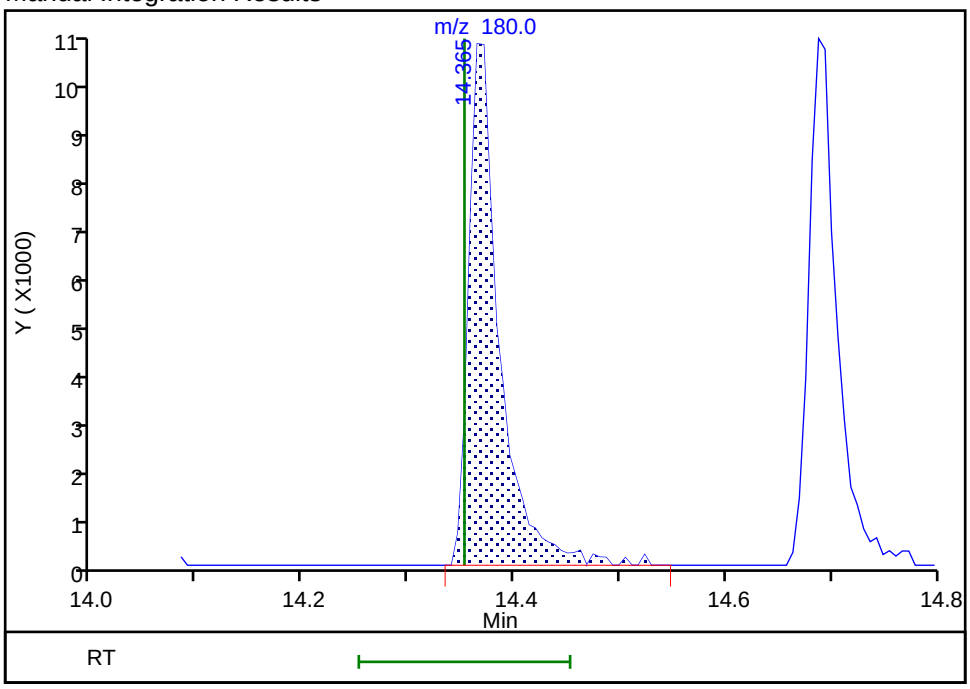
Processing Integration Results

RT: 14.36
Area: 20437
Amount: 0.191054
Amount Units: ug/l



Manual Integration Results

RT: 14.36
Area: 20963
Amount: 0.195286
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:08:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

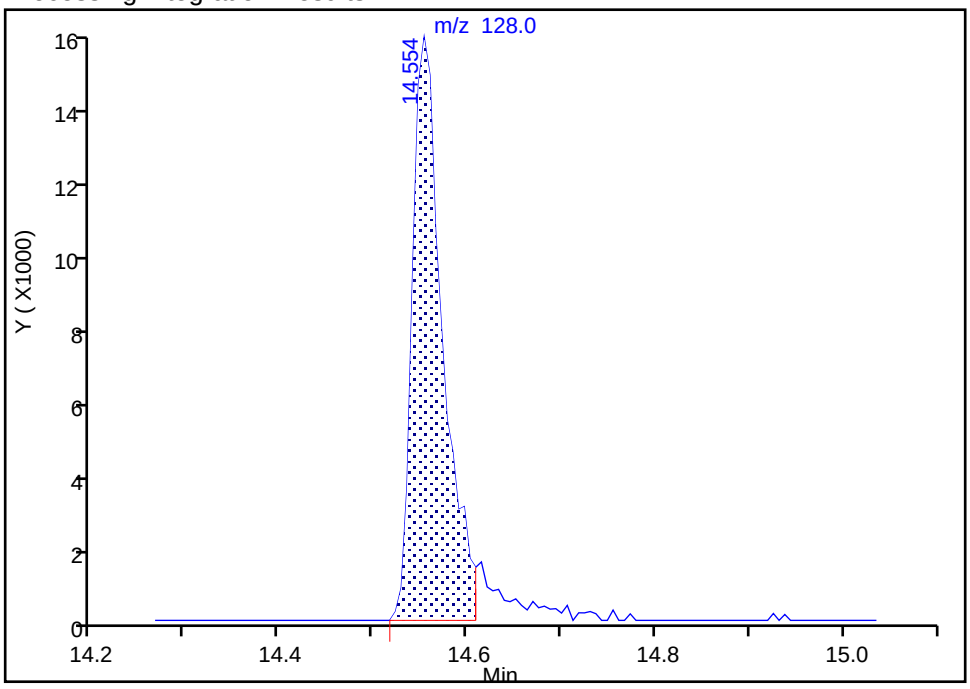
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

127 Naphthalene, CAS: 91-20-3

Signal: 1

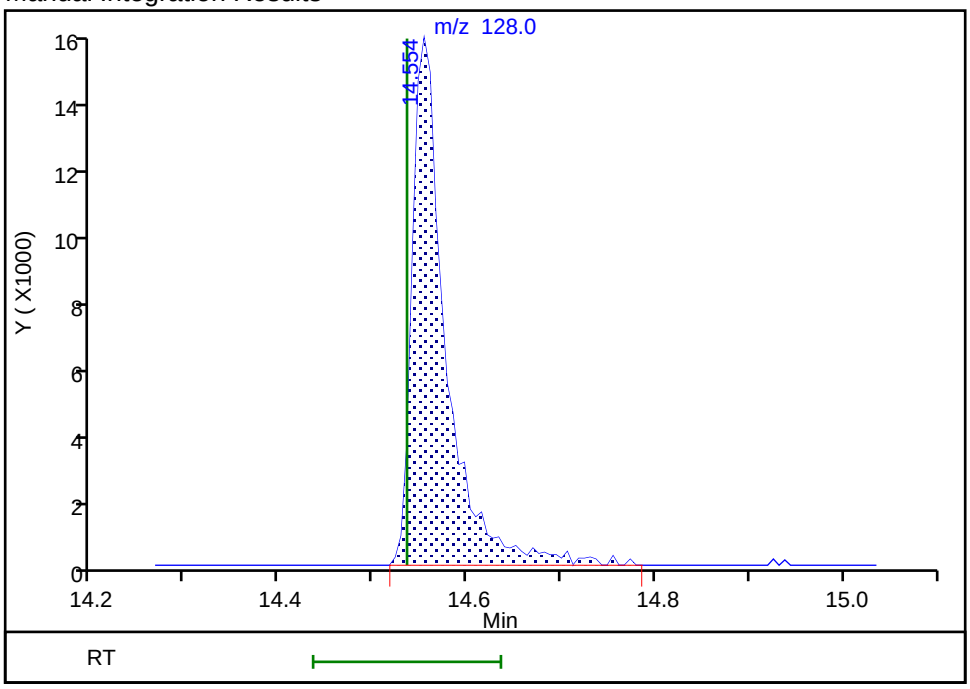
Processing Integration Results

RT: 14.55
Area: 33926
Amount: 0.177603
Amount Units: ug/l



Manual Integration Results

RT: 14.55
Area: 37493
Amount: 0.193693
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:54:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

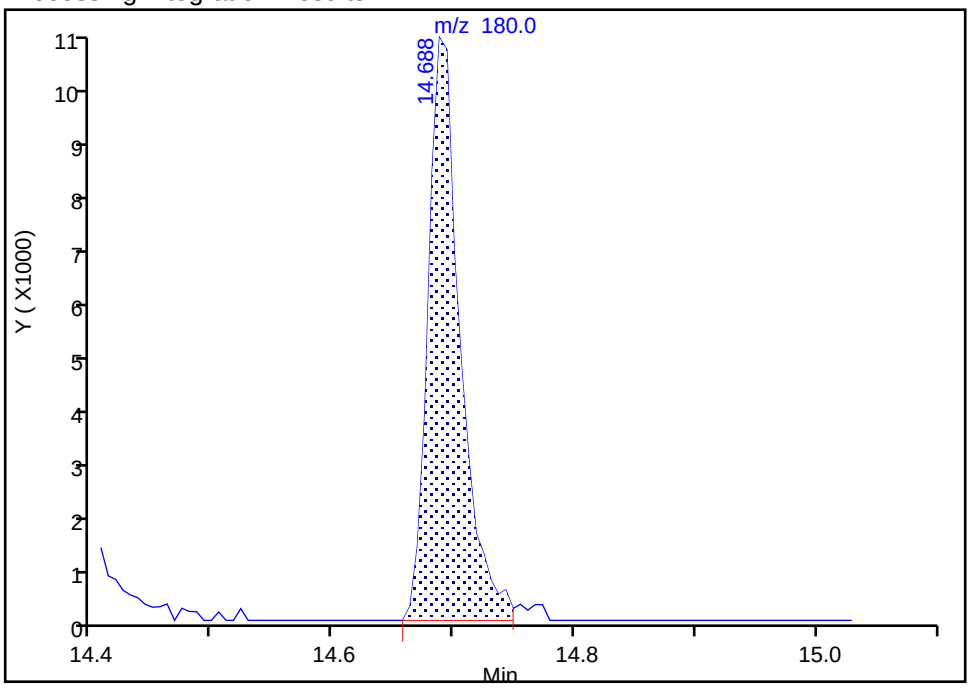
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

128 1,2,3-Trichlorobenzene, CAS: 87-61-6

Signal: 1

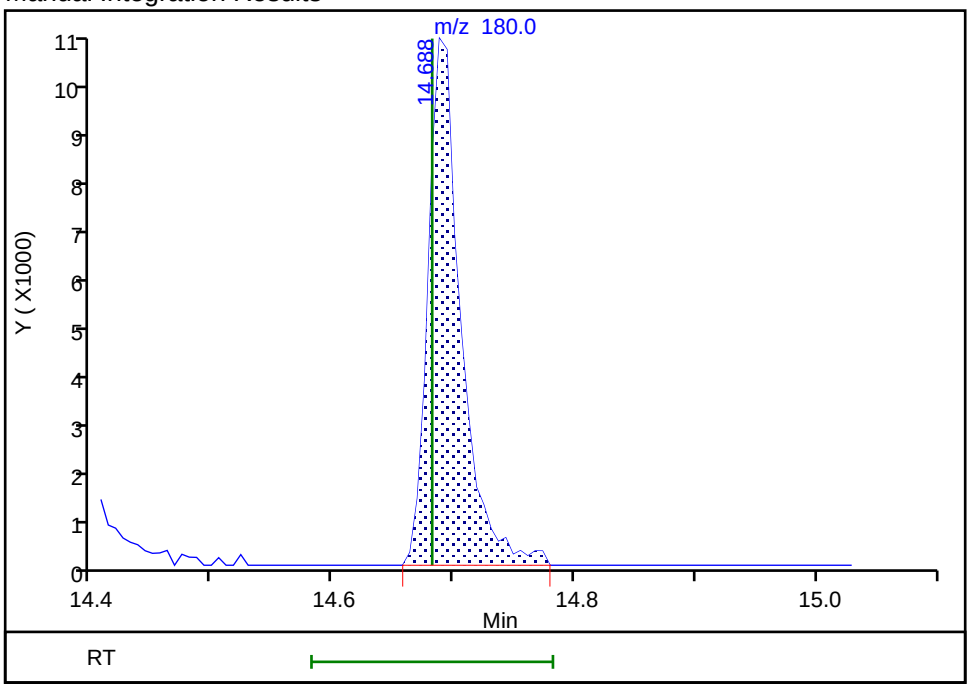
Processing Integration Results

RT: 14.69
Area: 19346
Amount: 0.203346
Amount Units: ug/l



Manual Integration Results

RT: 14.69
Area: 19725
Amount: 0.206741
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:08:33
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

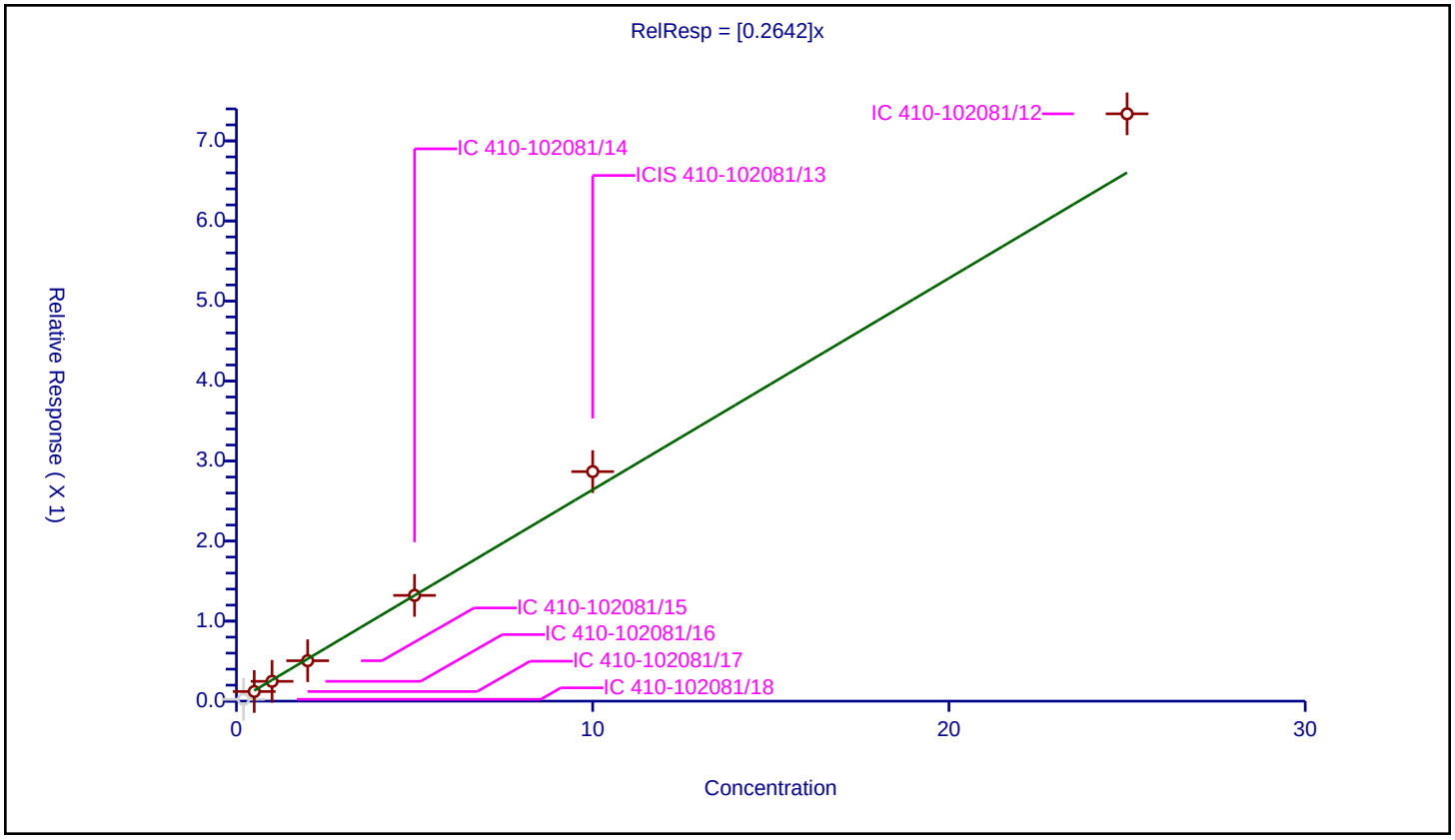
Curve Coefficients

Intercept:	0
Slope:	0.2642

Error Coefficients

Standard Error:	805000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.022842	10.0	2149149.0	0.114208	N
2	IC 410-102081/17	0.5	0.120372	10.0	2186974.0	0.240744	Y
3	IC 410-102081/16	1.0	0.247409	10.0	2195473.0	0.247409	Y
4	IC 410-102081/15	2.0	0.504879	10.0	2201773.0	0.25244	Y
5	IC 410-102081/14	5.0	1.321275	10.0	2225895.0	0.264255	Y
6	ICIS 410-102081/13	10.0	2.867669	10.0	2227977.0	0.286767	Y
7	IC 410-102081/12	25.0	7.338311	10.0	2252002.0	0.293532	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

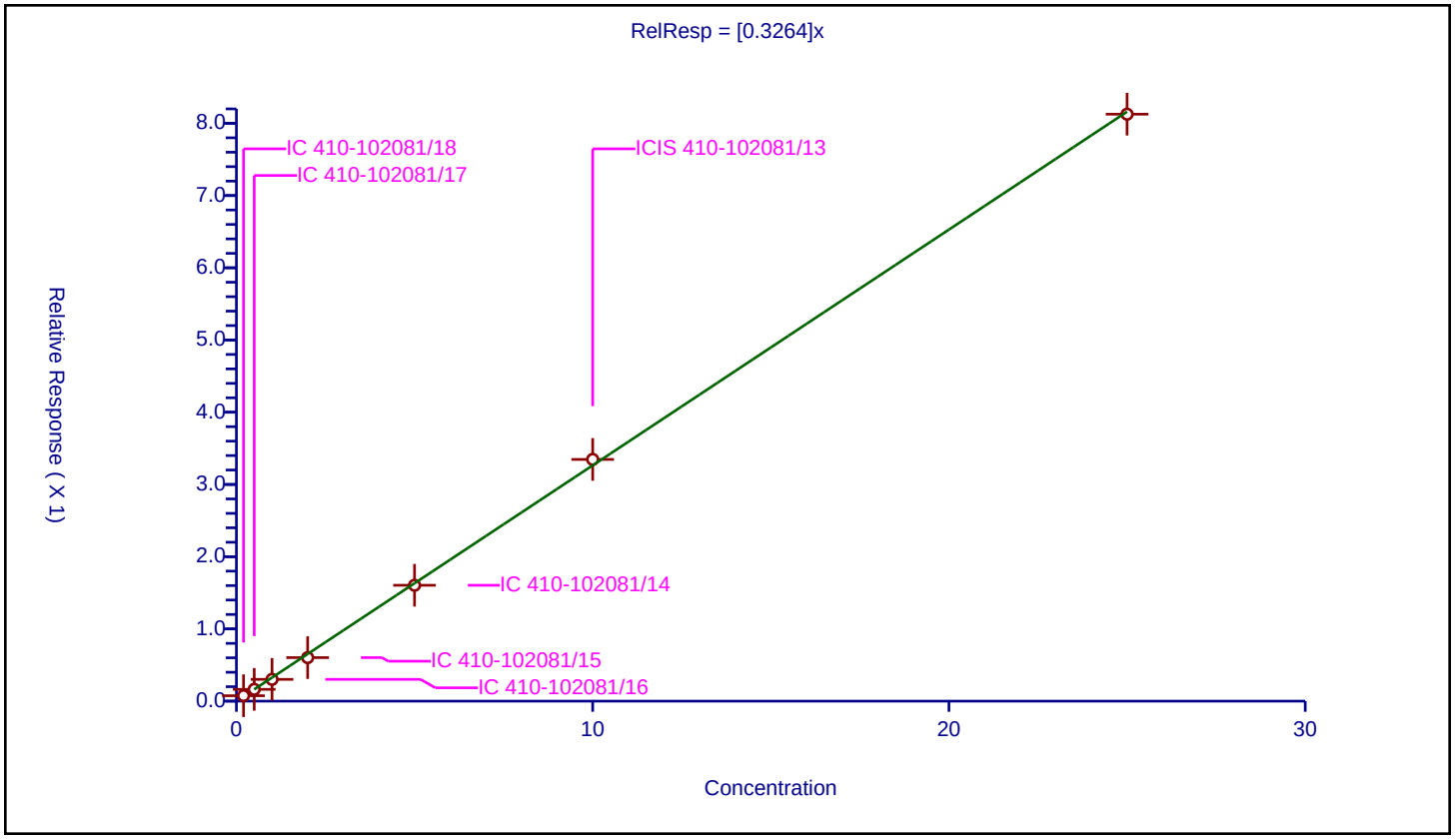
Curve Coefficients

Intercept:	0
Slope:	0.3264

Error Coefficients

Standard Error:	822000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.075039	10.0	2149149.0	0.375195	Y
2	IC 410-102081/17	0.5	0.163244	10.0	2186974.0	0.326488	Y
3	IC 410-102081/16	1.0	0.30137	10.0	2195473.0	0.30137	Y
4	IC 410-102081/15	2.0	0.602701	10.0	2201773.0	0.30135	Y
5	IC 410-102081/14	5.0	1.604469	10.0	2225895.0	0.320894	Y
6	ICIS 410-102081/13	10.0	3.346875	10.0	2227977.0	0.334687	Y
7	IC 410-102081/12	25.0	8.126627	10.0	2252002.0	0.325065	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

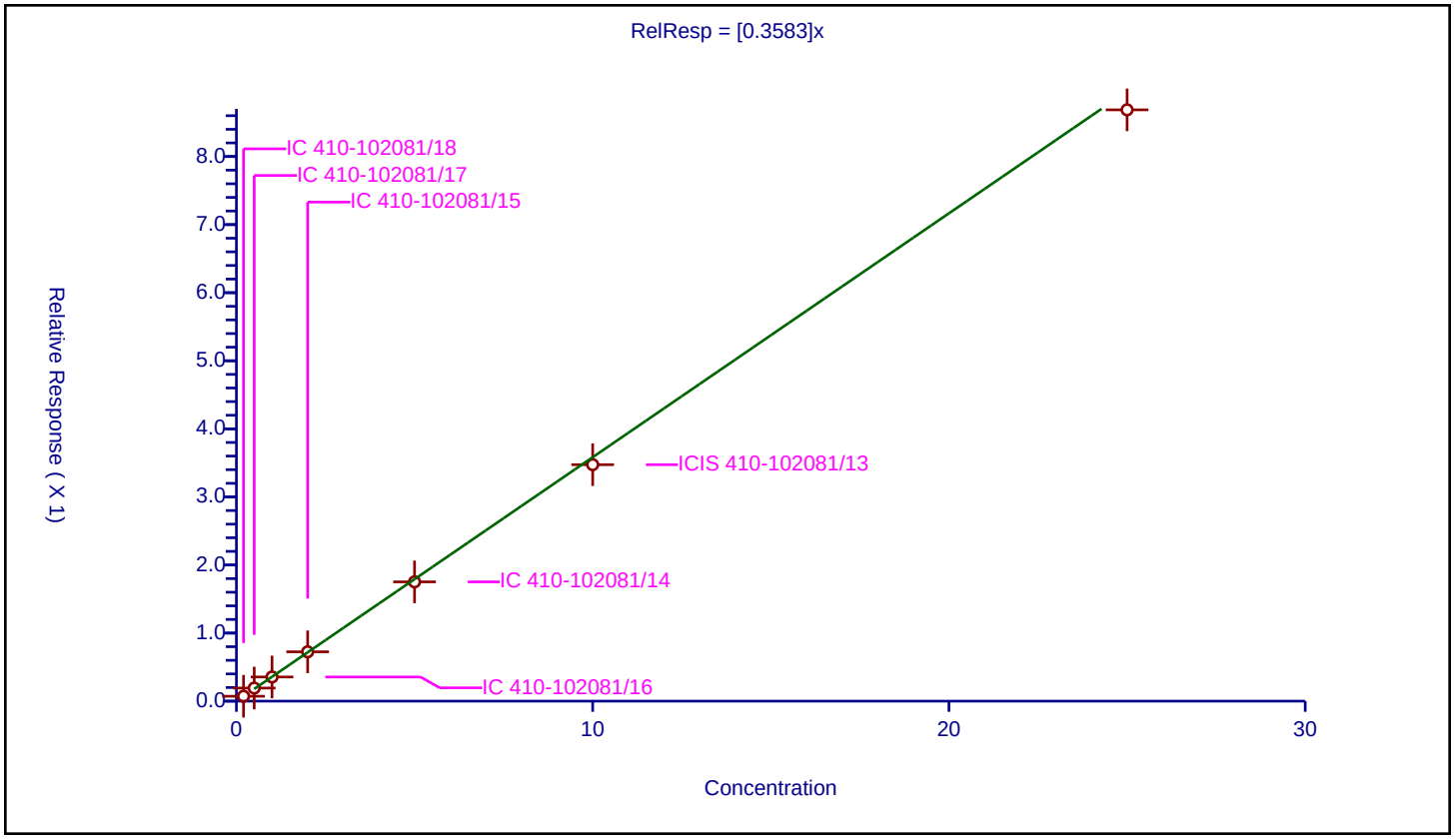
Curve Coefficients

Intercept:	0
Slope:	0.3583

Error Coefficients

Standard Error:	877000
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 410-102081/18	0.2	0.072108	10.0	2149149.0	0.360538	Y
2	IC 410-102081/17	0.5	0.192302	10.0	2186974.0	0.384604	Y
3	IC 410-102081/16	1.0	0.355249	10.0	2195473.0	0.355249	Y
4	IC 410-102081/15	2.0	0.724734	10.0	2201773.0	0.362367	Y
5	IC 410-102081/14	5.0	1.752279	10.0	2225895.0	0.350456	Y
6	ICIS 410-102081/13	10.0	3.473541	10.0	2227977.0	0.347354	Y
7	IC 410-102081/12	25.0	8.685805	10.0	2252002.0	0.347432	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

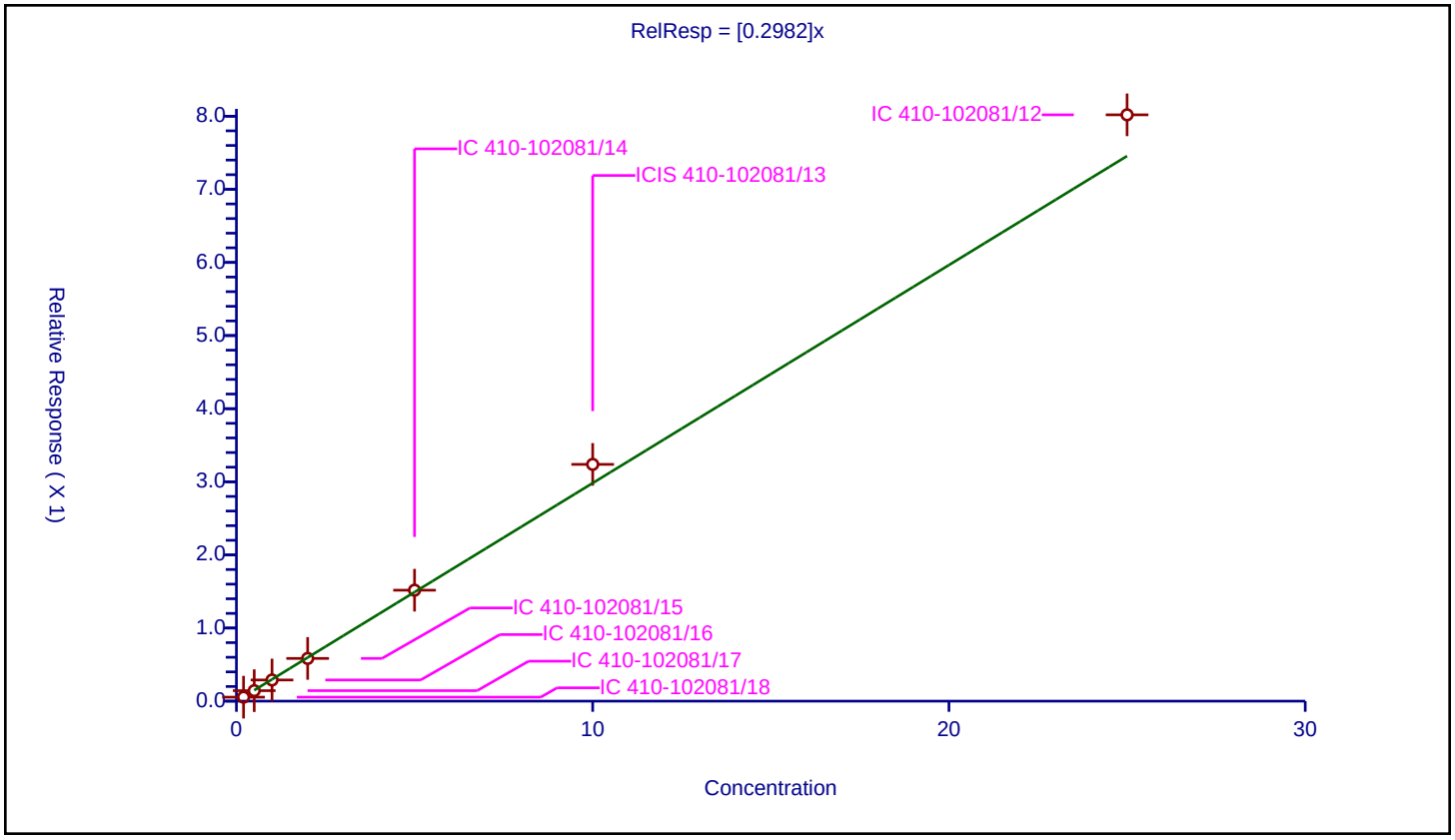
Curve Coefficients

Intercept:	0
Slope:	0.2982

Error Coefficients

Standard Error:	808000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.054305	10.0	2149149.0	0.271526	Y
2	IC 410-102081/17	0.5	0.143239	10.0	2186974.0	0.286478	Y
3	IC 410-102081/16	1.0	0.289373	10.0	2195473.0	0.289373	Y
4	IC 410-102081/15	2.0	0.584197	10.0	2201773.0	0.292099	Y
5	IC 410-102081/14	5.0	1.517354	10.0	2225895.0	0.303471	Y
6	ICIS 410-102081/13	10.0	3.238	10.0	2227977.0	0.3238	Y
7	IC 410-102081/12	25.0	8.018909	10.0	2252002.0	0.320756	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

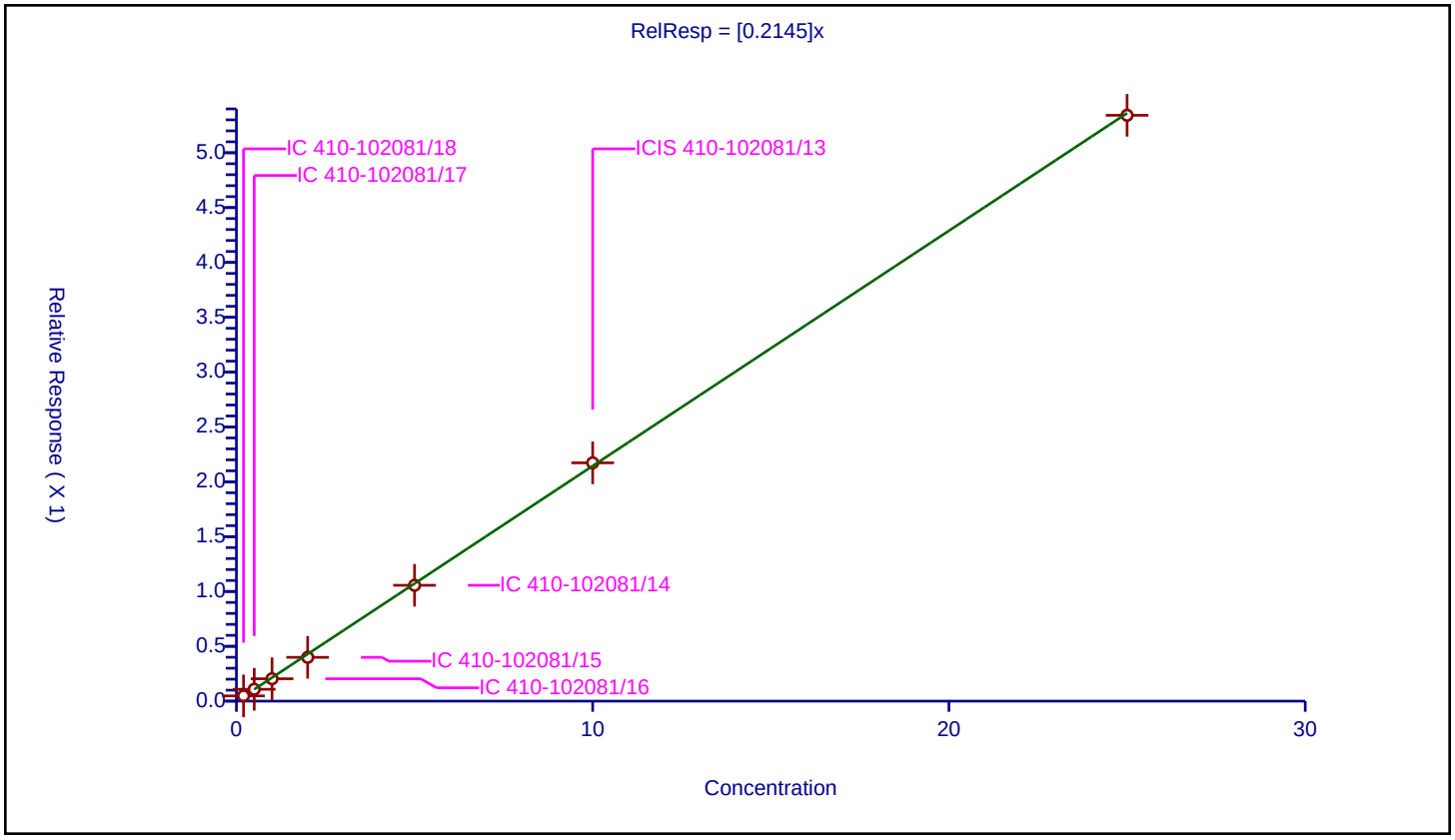
Curve Coefficients

Intercept:	0
Slope:	0.2145

Error Coefficients

Standard Error:	540000
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.047754	10.0	2149149.0	0.238769	Y
2	IC 410-102081/17	0.5	0.108232	10.0	2186974.0	0.216463	Y
3	IC 410-102081/16	1.0	0.204029	10.0	2195473.0	0.204029	Y
4	IC 410-102081/15	2.0	0.399424	10.0	2201773.0	0.199712	Y
5	IC 410-102081/14	5.0	1.056285	10.0	2225895.0	0.211257	Y
6	ICIS 410-102081/13	10.0	2.172756	10.0	2227977.0	0.217276	Y
7	IC 410-102081/12	25.0	5.341727	10.0	2252002.0	0.213669	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

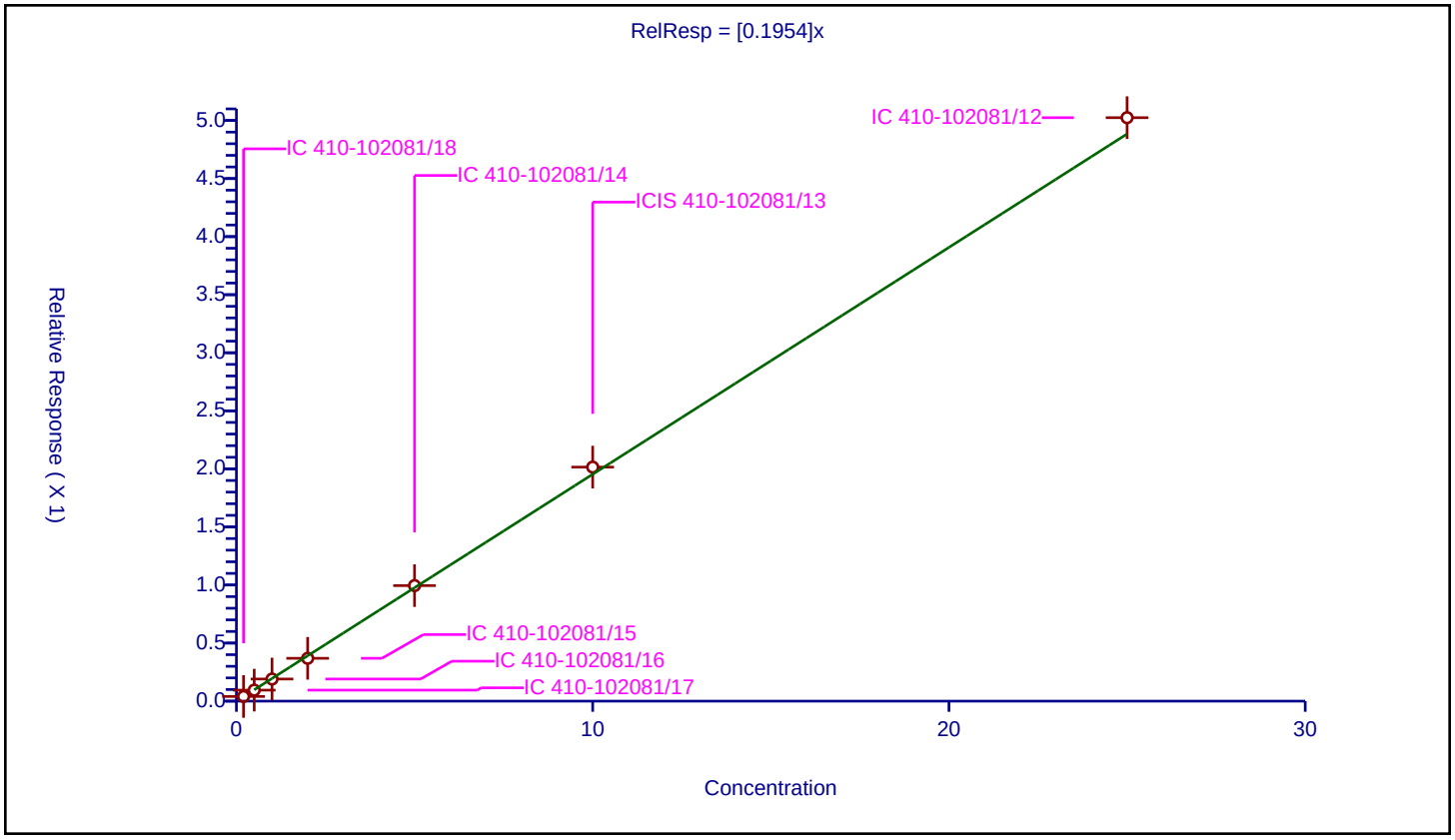
Curve Coefficients

Intercept:	0
Slope:	0.1954

Error Coefficients

Standard Error:	507000
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 410-102081/18	0.2	0.040253	10.0	2149149.0	0.201266	Y
2	IC 410-102081/17	0.5	0.094917	10.0	2186974.0	0.189833	Y
3	IC 410-102081/16	1.0	0.19051	10.0	2195473.0	0.19051	Y
4	IC 410-102081/15	2.0	0.368894	10.0	2201773.0	0.184447	Y
5	IC 410-102081/14	5.0	0.994948	10.0	2225895.0	0.19899	Y
6	ICIS 410-102081/13	10.0	2.015272	10.0	2227977.0	0.201527	Y
7	IC 410-102081/12	25.0	5.024401	10.0	2252002.0	0.200976	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

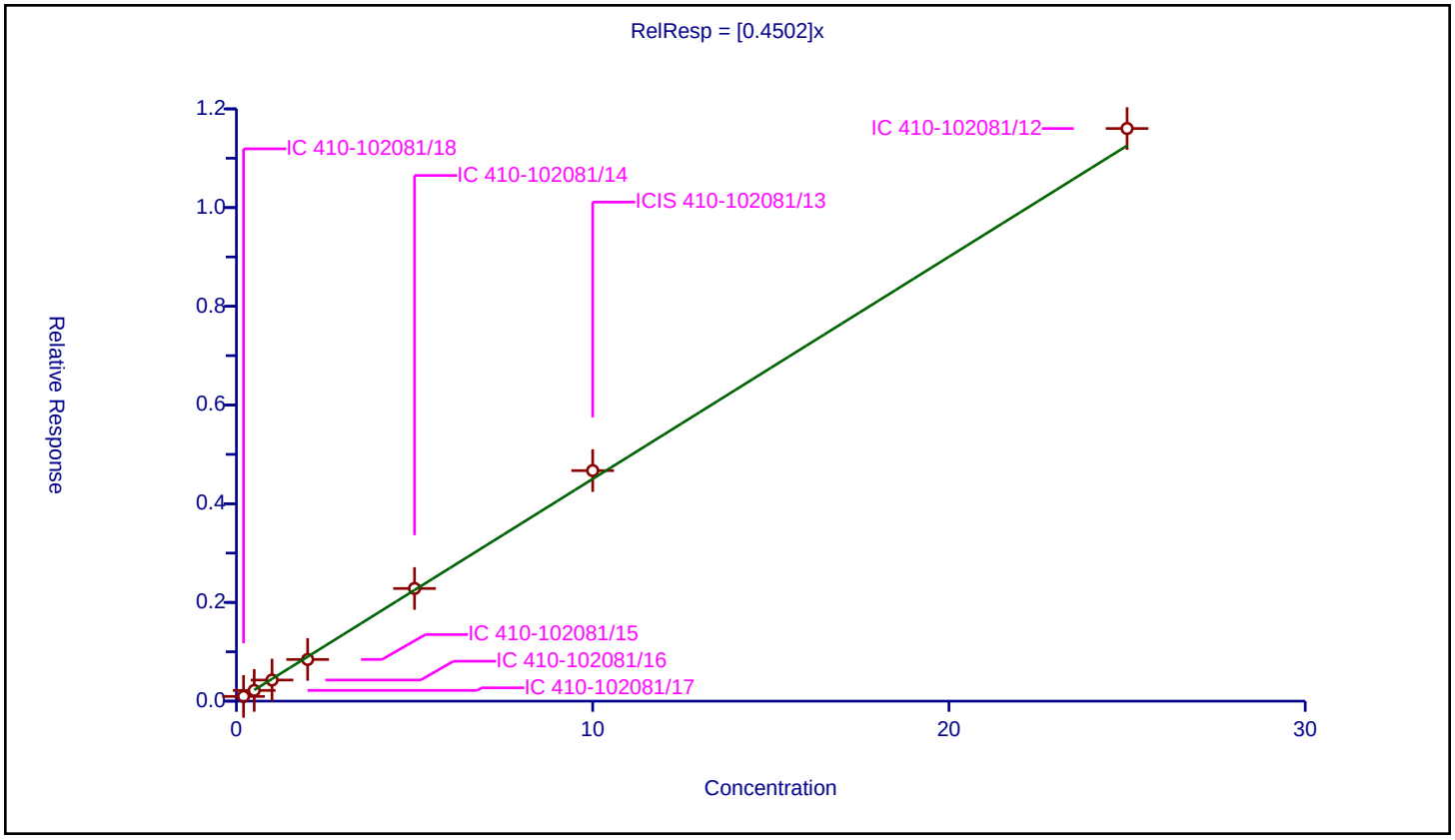
Curve Coefficients

Intercept:	0
Slope:	0.4502

Error Coefficients

Standard Error:	1170000
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 410-102081/18	0.2	0.095838	10.0	2149149.0	0.47919	Y
2	IC 410-102081/17	0.5	0.217245	10.0	2186974.0	0.434491	Y
3	IC 410-102081/16	1.0	0.42778	10.0	2195473.0	0.42778	Y
4	IC 410-102081/15	2.0	0.844342	10.0	2201773.0	0.422171	Y
5	IC 410-102081/14	5.0	2.282295	10.0	2225895.0	0.456459	Y
6	ICIS 410-102081/13	10.0	4.671229	10.0	2227977.0	0.467123	Y
7	IC 410-102081/12	25.0	11.602334	10.0	2252002.0	0.464093	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

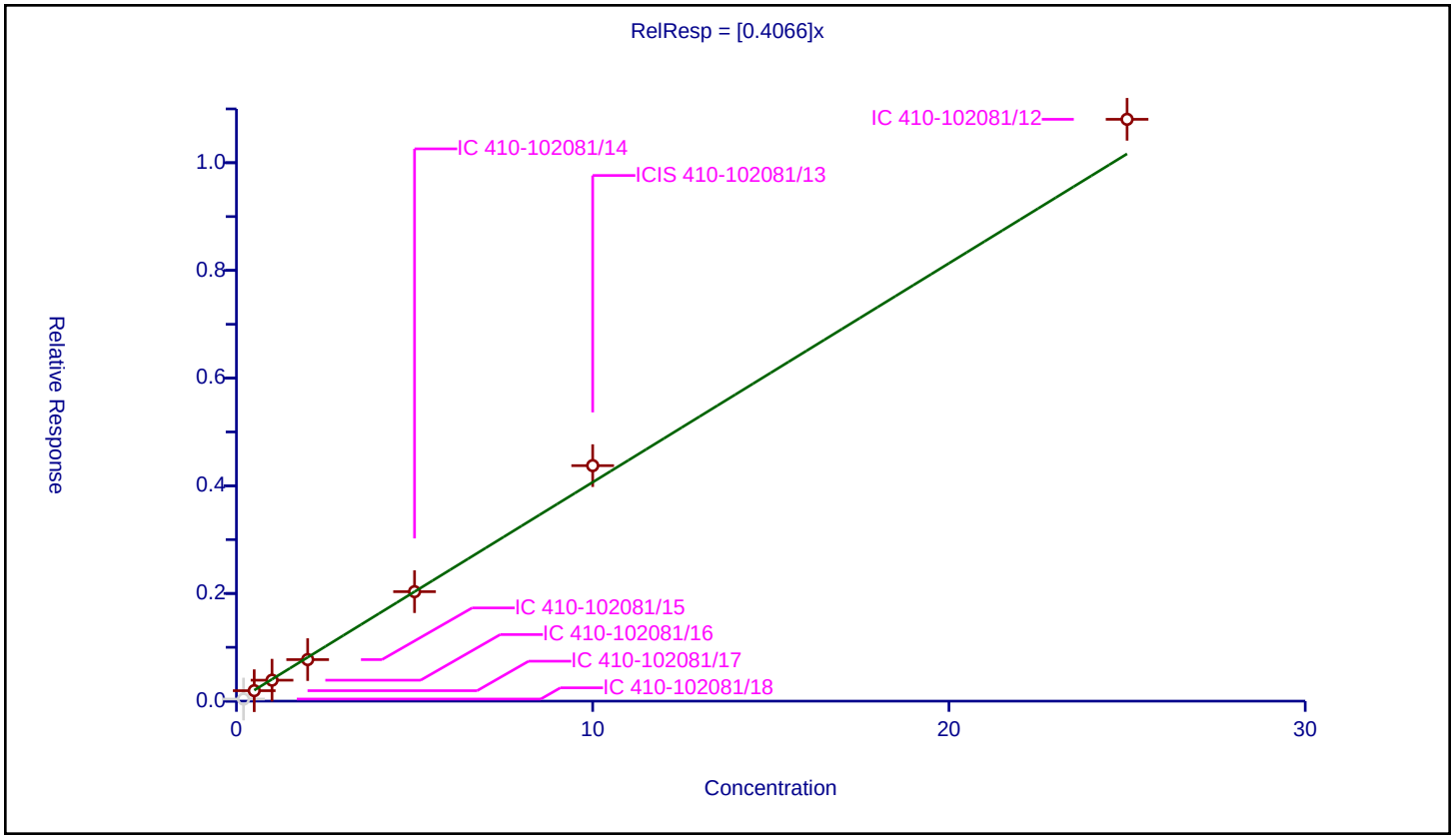
Curve Coefficients

Intercept:	0
Slope:	0.4066

Error Coefficients

Standard Error:	1190000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.038727	10.0	2149149.0	0.193635	N
2	IC 410-102081/17	0.5	0.194195	10.0	2186974.0	0.388391	Y
3	IC 410-102081/16	1.0	0.389114	10.0	2195473.0	0.389114	Y
4	IC 410-102081/15	2.0	0.771655	10.0	2201773.0	0.385828	Y
5	IC 410-102081/14	5.0	2.03351	10.0	2225895.0	0.406702	Y
6	ICIS 410-102081/13	10.0	4.374228	10.0	2227977.0	0.437423	Y
7	IC 410-102081/12	25.0	10.806367	10.0	2252002.0	0.432255	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

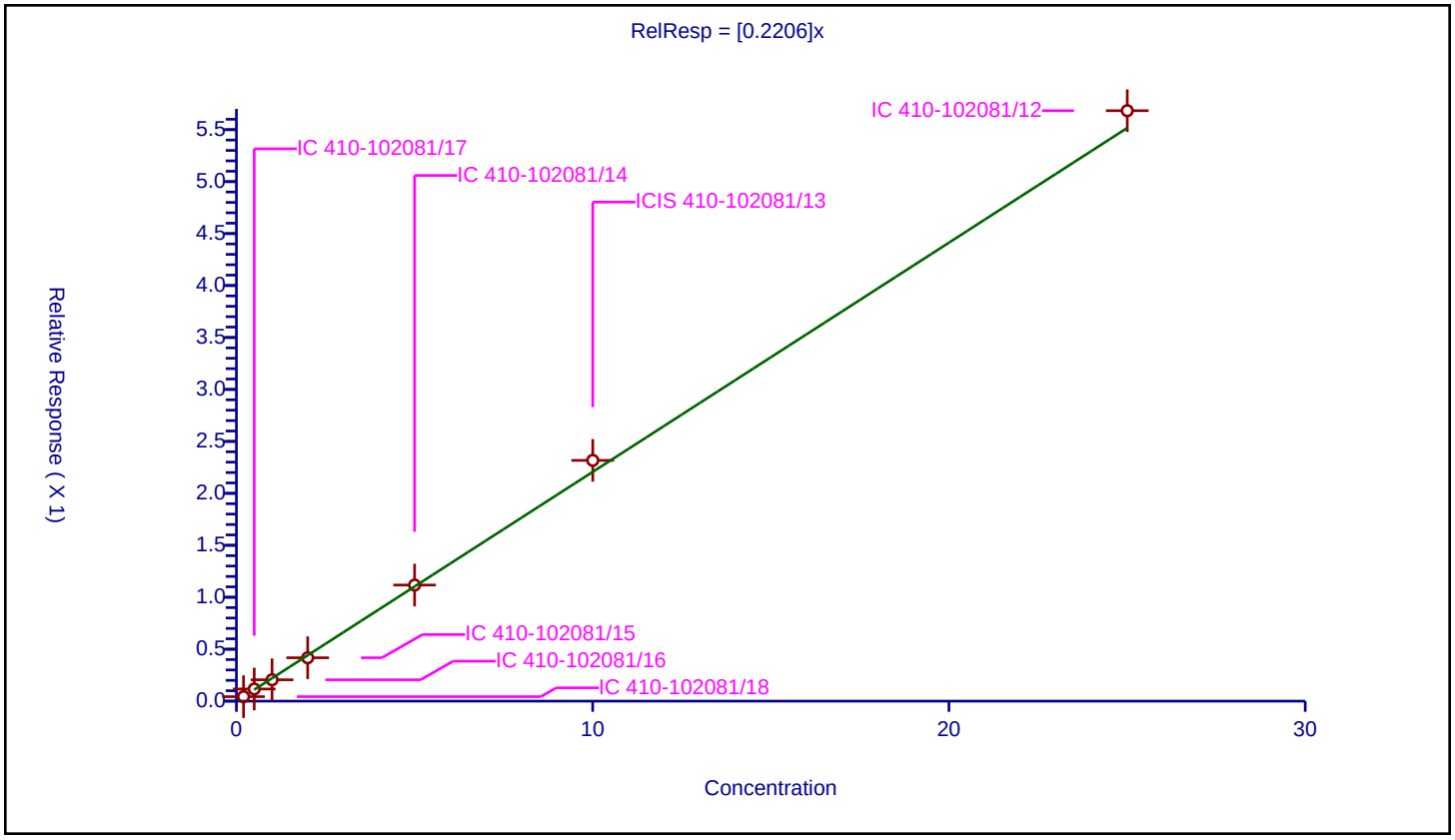
Curve Coefficients

Intercept:	0
Slope:	0.2206

Error Coefficients

Standard Error:	574000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.200043	0.042947	10.0	2149149.0	0.21469	Y
2	IC 410-102081/17	0.500108	0.1167	10.0	2186974.0	0.23335	Y
3	IC 410-102081/16	1.000215	0.205395	10.0	2195473.0	0.205351	Y
4	IC 410-102081/15	2.00043	0.417418	10.0	2201773.0	0.208664	Y
5	IC 410-102081/14	5.001075	1.117146	10.0	2225895.0	0.223381	Y
6	ICIS 410-102081/13	10.00215	2.317196	10.0	2227977.0	0.23167	Y
7	IC 410-102081/12	25.005375	5.682606	10.0	2252002.0	0.227255	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

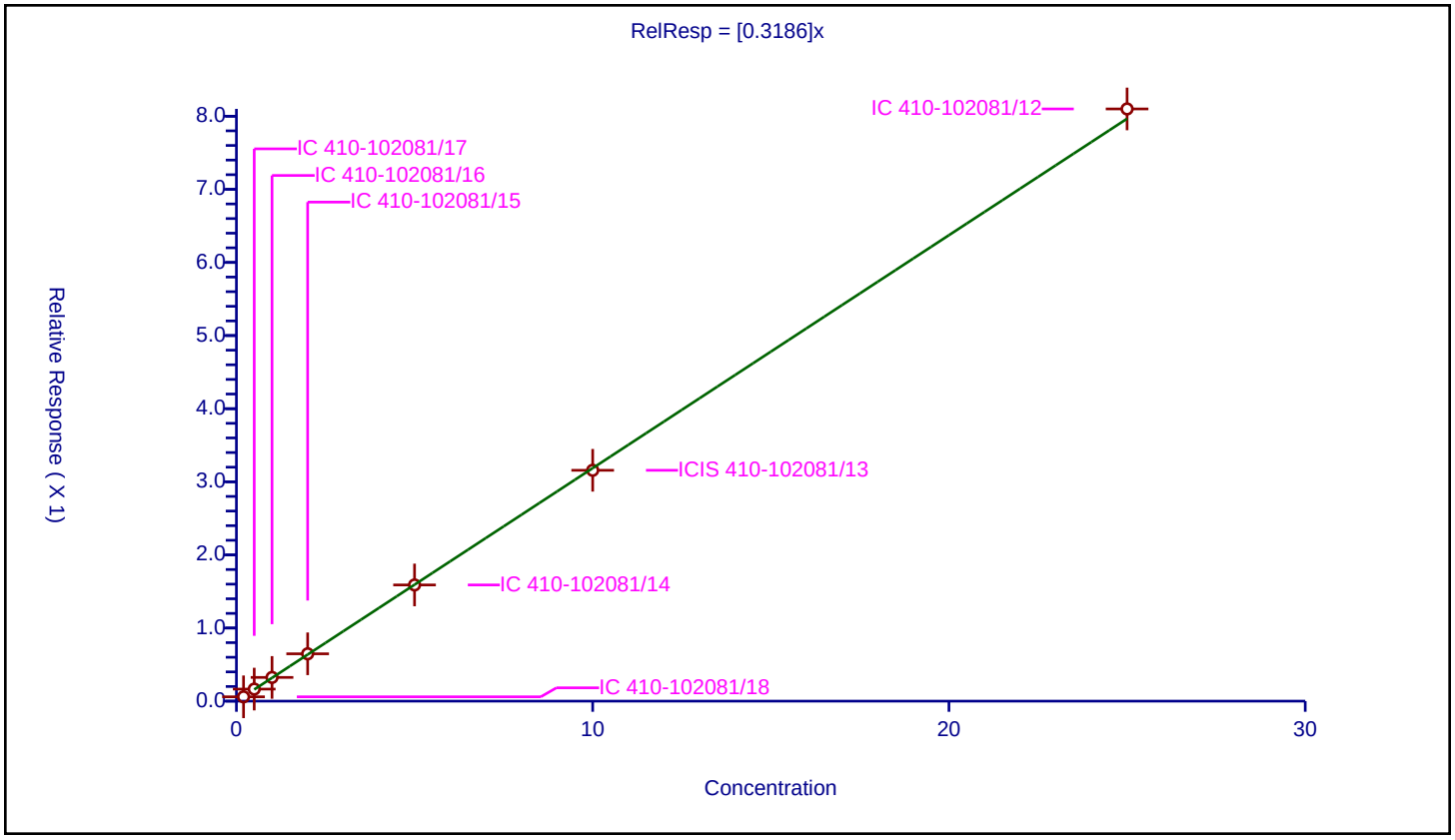
Curve Coefficients

Intercept:	0
Slope:	0.3186

Error Coefficients

Standard Error:	814000
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 410-102081/18	0.2	0.059056	10.0	2149149.0	0.29528	Y
2	IC 410-102081/17	0.5	0.164734	10.0	2186974.0	0.329469	Y
3	IC 410-102081/16	1.0	0.324486	10.0	2195473.0	0.324486	Y
4	IC 410-102081/15	2.0	0.647419	10.0	2201773.0	0.32371	Y
5	IC 410-102081/14	5.0	1.589145	10.0	2225895.0	0.317829	Y
6	ICIS 410-102081/13	10.0	3.15725	10.0	2227977.0	0.315725	Y
7	IC 410-102081/12	25.0	8.099309	10.0	2252002.0	0.323972	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

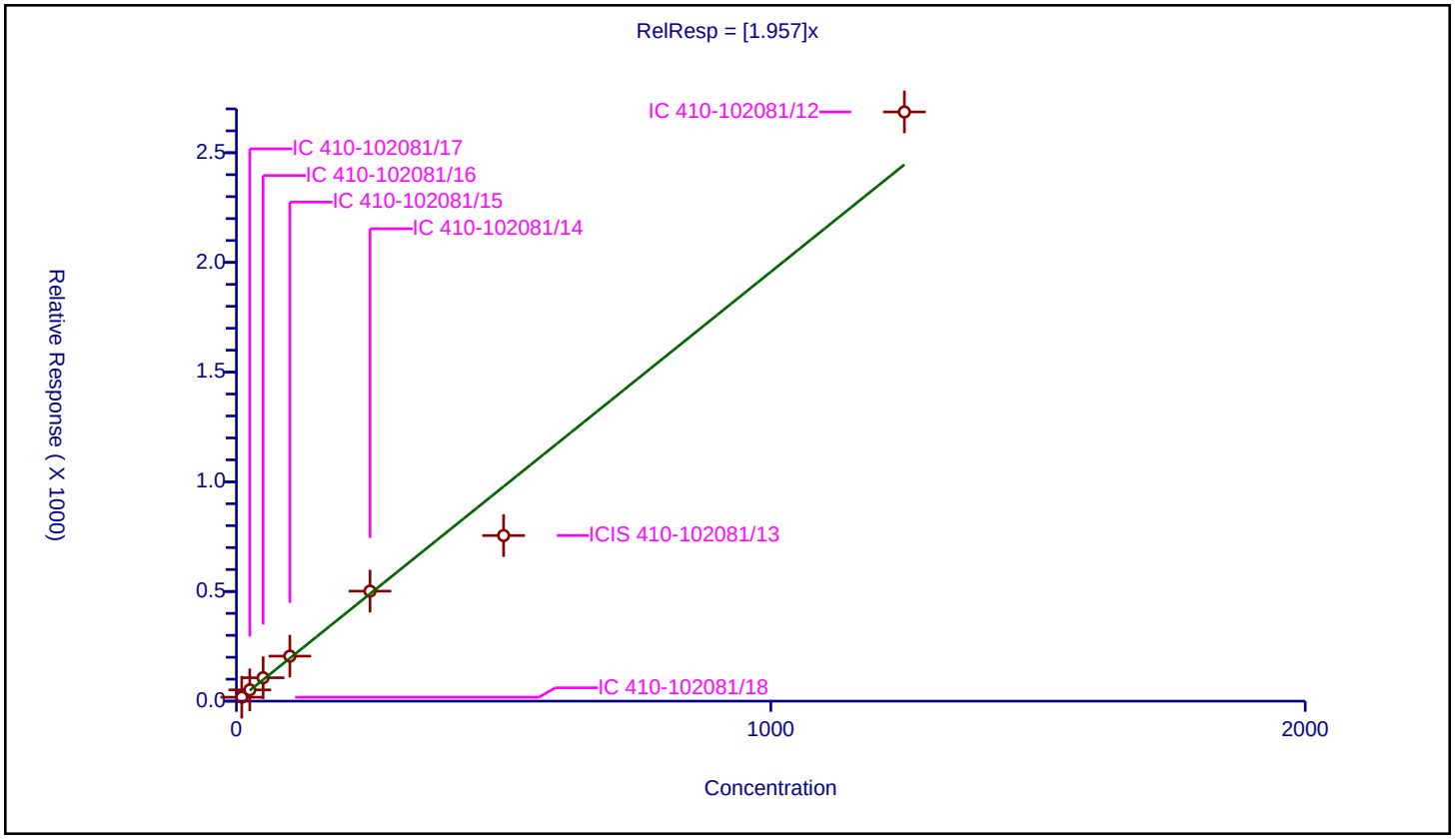
Curve Coefficients

Intercept:	0
Slope:	1.957

Error Coefficients

Standard Error:	3700000
Relative Standard Error:	11.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	9.999544	17.896248	50.0	174165.0	1.789706	Y
2	IC 410-102081/17	24.998861	51.42559	50.0	171087.0	2.057117	Y
3	IC 410-102081/16	49.997722	106.695219	50.0	165663.0	2.134002	Y
4	IC 410-102081/15	99.995444	205.27058	50.0	173036.0	2.052799	Y
5	IC 410-102081/14	249.988611	501.565224	50.0	171477.0	2.006352	Y
6	ICIS 410-102081/13	499.977222	754.887682	50.0	195338.0	1.509844	Y
7	IC 410-102081/12	1249.943055	2686.006028	50.0	155617.0	2.148903	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

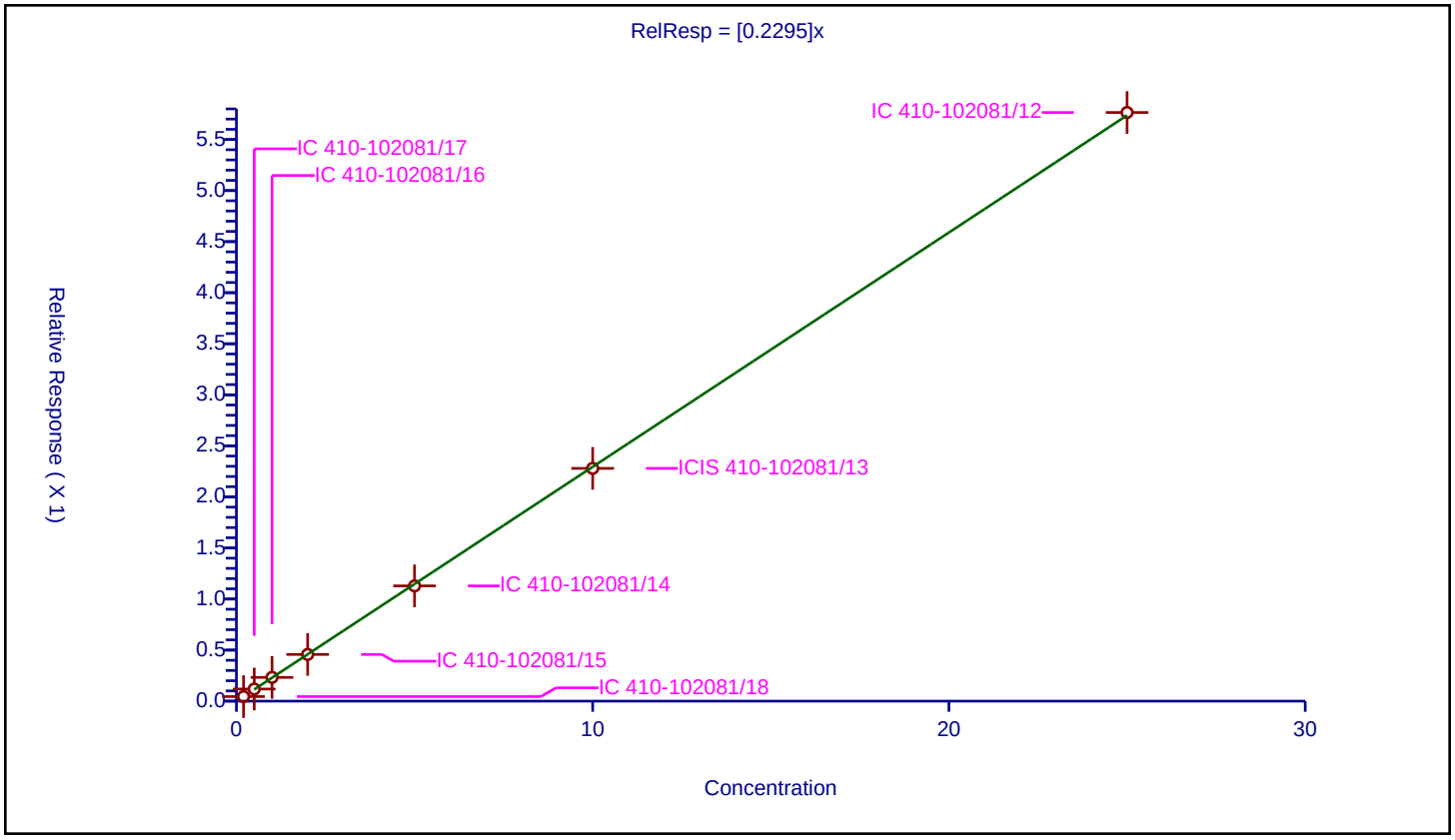
Curve Coefficients

Intercept:	0
Slope:	0.2295

Error Coefficients

Standard Error:	580000
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.044799	10.0	2149149.0	0.223996	Y
2	IC 410-102081/17	0.5	0.118465	10.0	2186974.0	0.23693	Y
3	IC 410-102081/16	1.0	0.232437	10.0	2195473.0	0.232437	Y
4	IC 410-102081/15	2.0	0.457313	10.0	2201773.0	0.228657	Y
5	IC 410-102081/14	5.0	1.128661	10.0	2225895.0	0.225732	Y
6	ICIS 410-102081/13	10.0	2.279431	10.0	2227977.0	0.227943	Y
7	IC 410-102081/12	25.0	5.764782	10.0	2252002.0	0.230591	Y



Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

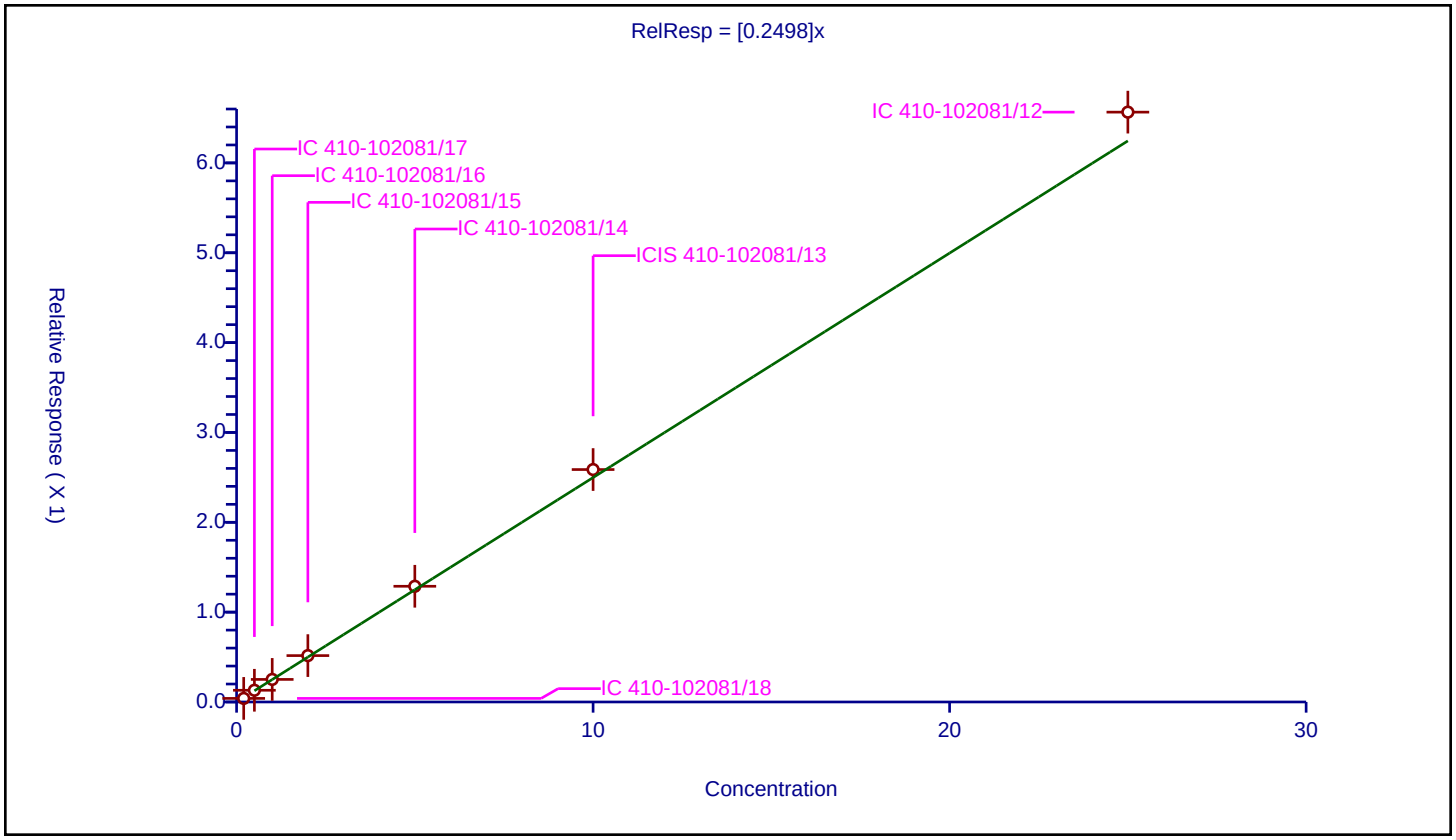
Curve Coefficients

Intercept:	0
Slope:	0.2498

Error Coefficients

Standard Error:	660000
Relative Standard Error:	9.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.039858	10.0	2149149.0	0.199288	Y
2	IC 410-102081/17	0.5	0.130523	10.0	2186974.0	0.261046	Y
3	IC 410-102081/16	1.0	0.251294	10.0	2195473.0	0.251294	Y
4	IC 410-102081/15	2.0	0.516348	10.0	2201773.0	0.258174	Y
5	IC 410-102081/14	5.0	1.287904	10.0	2225895.0	0.257581	Y
6	ICIS 410-102081/13	10.0	2.587096	10.0	2227977.0	0.25871	Y
7	IC 410-102081/12	25.0	6.565305	10.0	2252002.0	0.262612	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

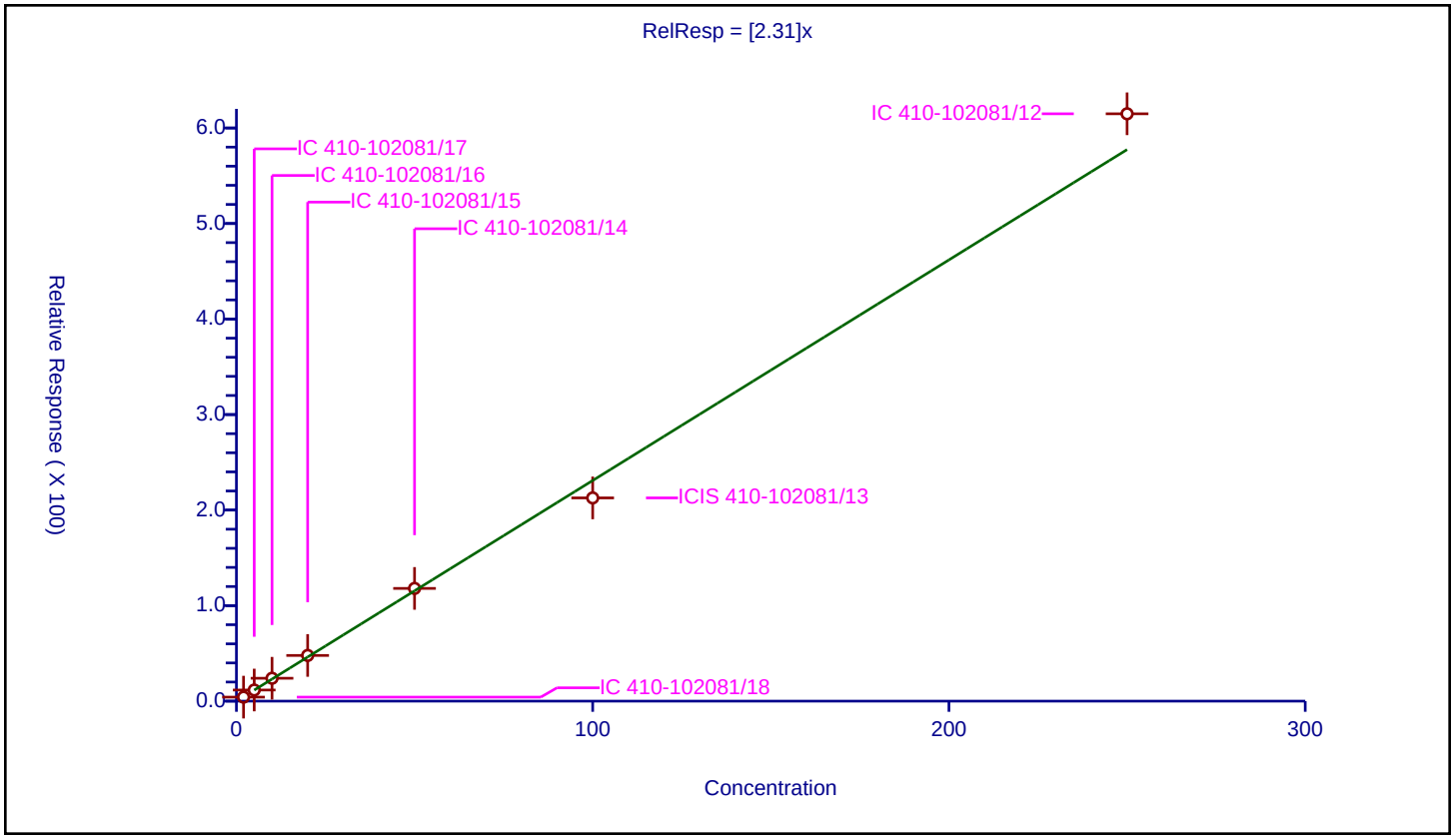
Curve Coefficients

Intercept:	0
Slope:	2.31

Error Coefficients

Standard Error:	871000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	2.0	4.207217	50.0	174165.0	2.103609	Y
2	IC 410-102081/17	5.0	11.641153	50.0	171087.0	2.328231	Y
3	IC 410-102081/16	10.0	23.963408	50.0	165663.0	2.396341	Y
4	IC 410-102081/15	20.0	47.828776	50.0	173036.0	2.391439	Y
5	IC 410-102081/14	50.0	118.02195	50.0	171477.0	2.360439	Y
6	ICIS 410-102081/13	100.0	212.76275	50.0	195338.0	2.127627	Y
7	IC 410-102081/12	250.0	614.875945	50.0	155617.0	2.459504	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

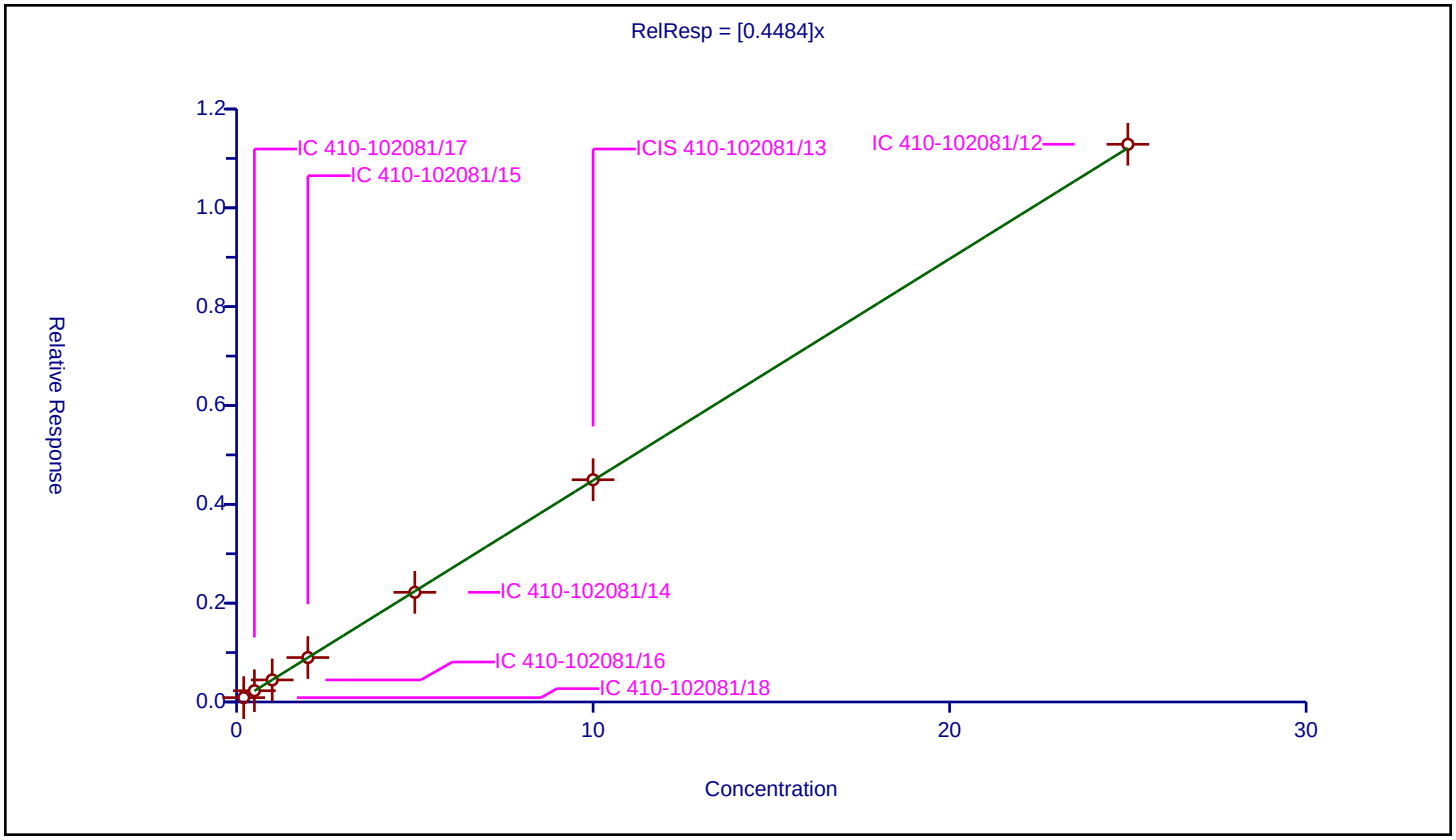
Curve Coefficients

Intercept:	0
Slope:	0.4484

Error Coefficients

Standard Error:	1140000
Relative Standard Error:	1.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.088365	10.0	2149149.0	0.441826	Y
2	IC 410-102081/17	0.5	0.227785	10.0	2186974.0	0.45557	Y
3	IC 410-102081/16	1.0	0.446423	10.0	2195473.0	0.446423	Y
4	IC 410-102081/15	2.0	0.899552	10.0	2201773.0	0.449776	Y
5	IC 410-102081/14	5.0	2.219341	10.0	2225895.0	0.443868	Y
6	ICIS 410-102081/13	10.0	4.497834	10.0	2227977.0	0.449783	Y
7	IC 410-102081/12	25.0	11.285807	10.0	2252002.0	0.451432	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

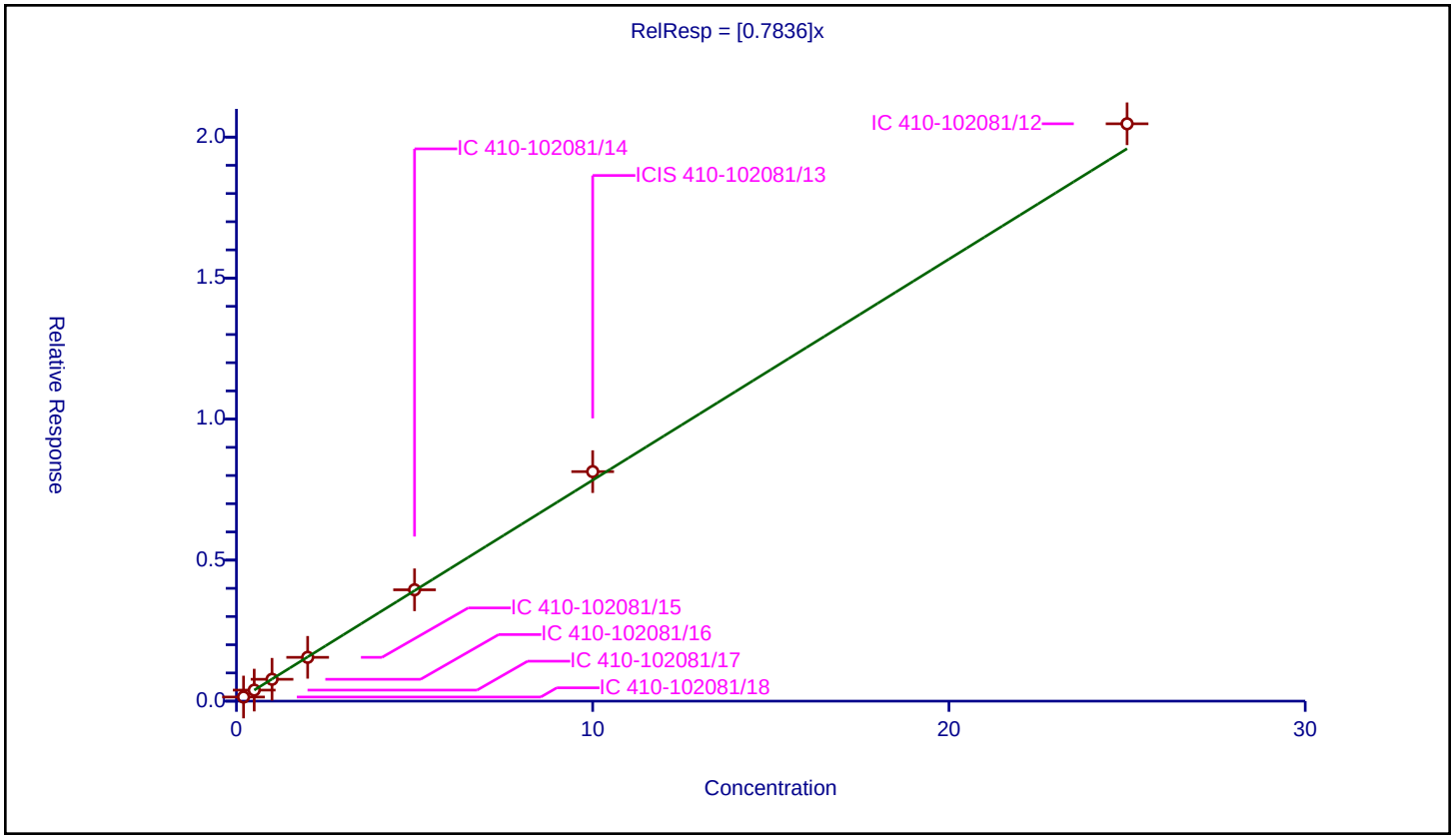
Curve Coefficients

Intercept:	0
Slope:	0.7836

Error Coefficients

Standard Error:	2060000
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 410-102081/18	0.2	0.145741	10.0	2149149.0	0.728707	Y
2	IC 410-102081/17	0.5	0.391326	10.0	2186974.0	0.782652	Y
3	IC 410-102081/16	1.0	0.77489	10.0	2195473.0	0.77489	Y
4	IC 410-102081/15	2.0	1.553407	10.0	2201773.0	0.776704	Y
5	IC 410-102081/14	5.0	3.948016	10.0	2225895.0	0.789603	Y
6	ICIS 410-102081/13	10.0	8.13863	10.0	2227977.0	0.813863	Y
7	IC 410-102081/12	25.0	20.472264	10.0	2252002.0	0.818891	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

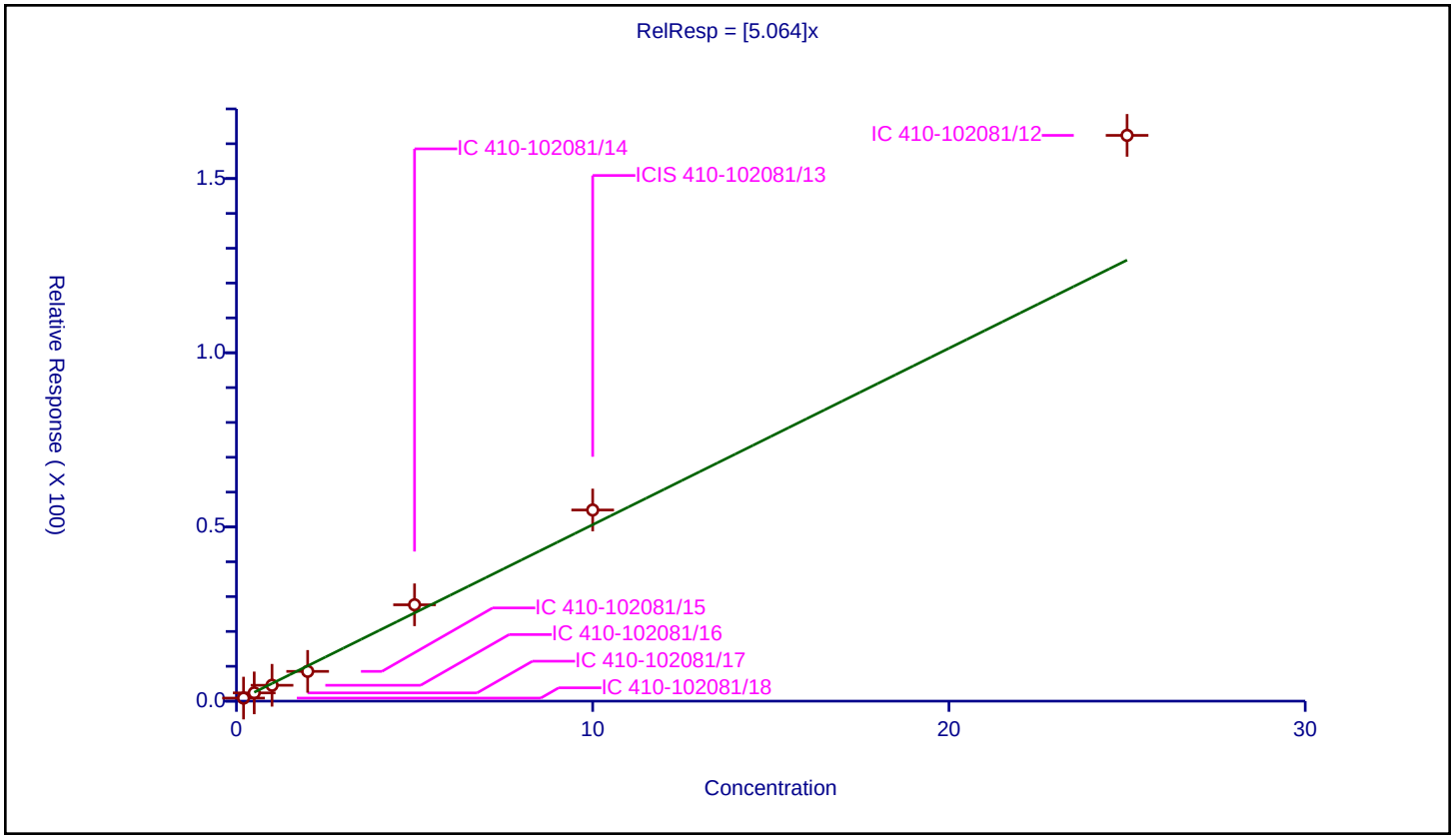
Curve Coefficients

Intercept:	0
Slope:	5.064

Error Coefficients

Standard Error:	228000
Relative Standard Error:	16.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.874745	50.0	174165.0	4.373726	Y
2	IC 410-102081/17	0.5	2.367801	50.0	171087.0	4.735602	Y
3	IC 410-102081/16	1.0	4.554427	50.0	165663.0	4.554427	Y
4	IC 410-102081/15	2.0	8.544465	50.0	173036.0	4.272232	Y
5	IC 410-102081/14	5.0	27.656479	50.0	171477.0	5.531296	Y
6	ICIS 410-102081/13	10.0	54.861829	50.0	195338.0	5.486183	Y
7	IC 410-102081/12	25.0	162.399674	50.0	155617.0	6.495987	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

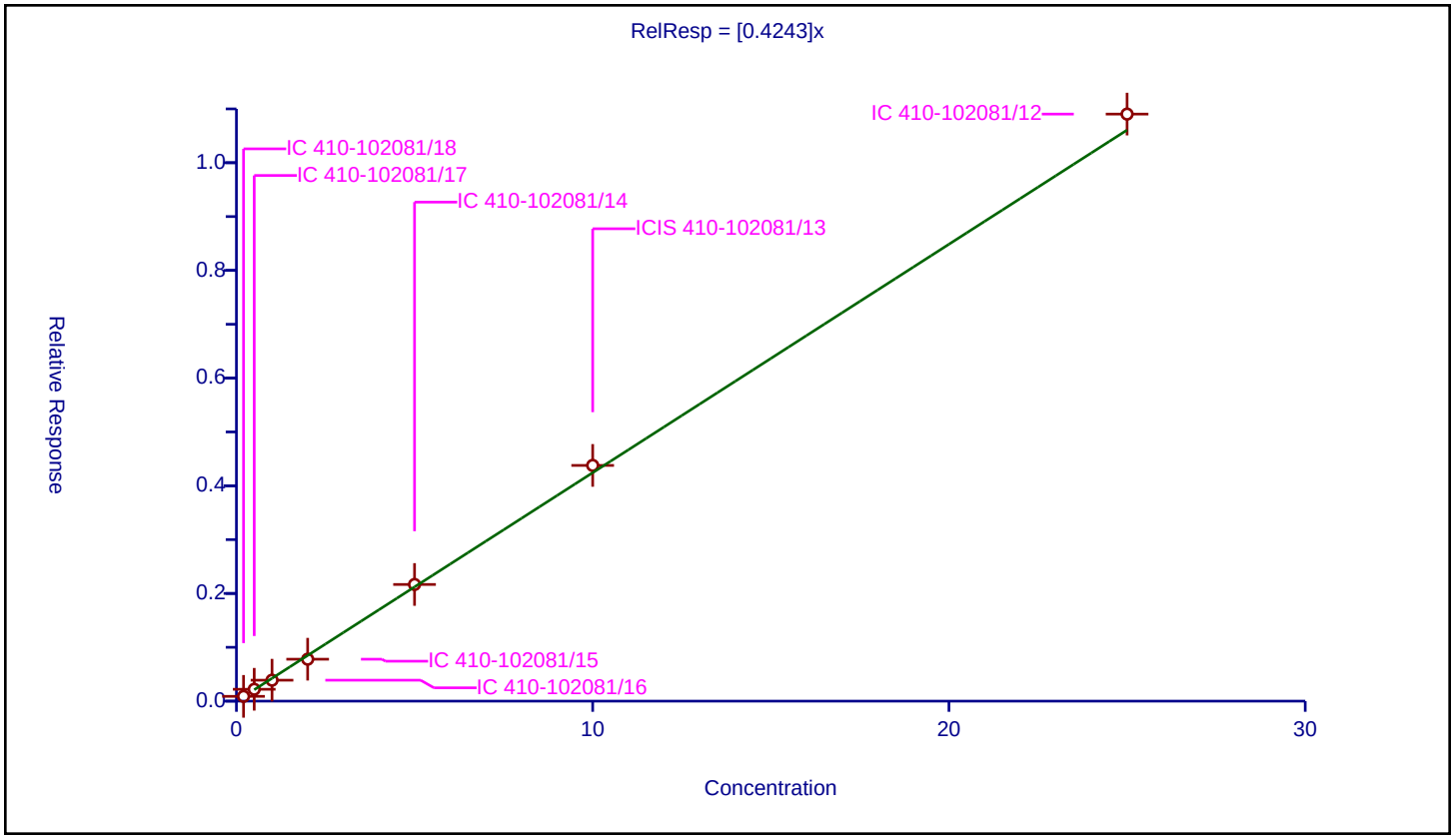
Curve Coefficients

Intercept:	0
Slope:	0.4243

Error Coefficients

Standard Error:	1100000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.08864	10.0	2149149.0	0.443199	Y
2	IC 410-102081/17	0.5	0.2204	10.0	2186974.0	0.440801	Y
3	IC 410-102081/16	1.0	0.389237	10.0	2195473.0	0.389237	Y
4	IC 410-102081/15	2.0	0.779104	10.0	2201773.0	0.389552	Y
5	IC 410-102081/14	5.0	2.166737	10.0	2225895.0	0.433347	Y
6	ICIS 410-102081/13	10.0	4.377994	10.0	2227977.0	0.437799	Y
7	IC 410-102081/12	25.0	10.903538	10.0	2252002.0	0.436142	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

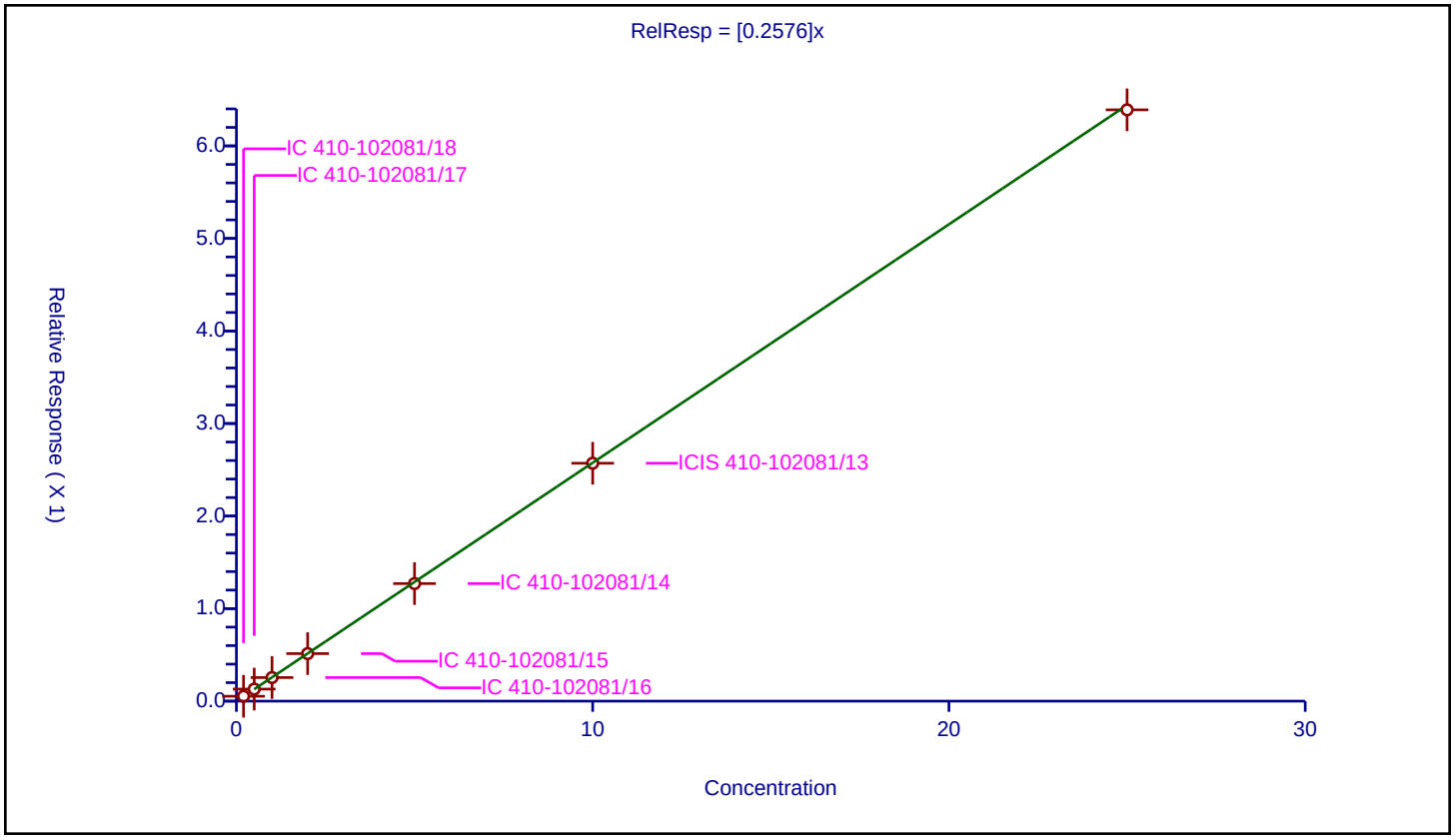
Curve Coefficients

Intercept:	0
Slope:	0.2576

Error Coefficients

Standard Error:	645000
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 410-102081/18	0.2	0.052881	10.0	2149149.0	0.264407	Y
2	IC 410-102081/17	0.5	0.130299	10.0	2186974.0	0.260598	Y
3	IC 410-102081/16	1.0	0.254792	10.0	2195473.0	0.254792	Y
4	IC 410-102081/15	2.0	0.513504	10.0	2201773.0	0.256752	Y
5	IC 410-102081/14	5.0	1.270379	10.0	2225895.0	0.254076	Y
6	ICIS 410-102081/13	10.0	2.570866	10.0	2227977.0	0.257087	Y
7	IC 410-102081/12	25.0	6.389834	10.0	2252002.0	0.255593	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

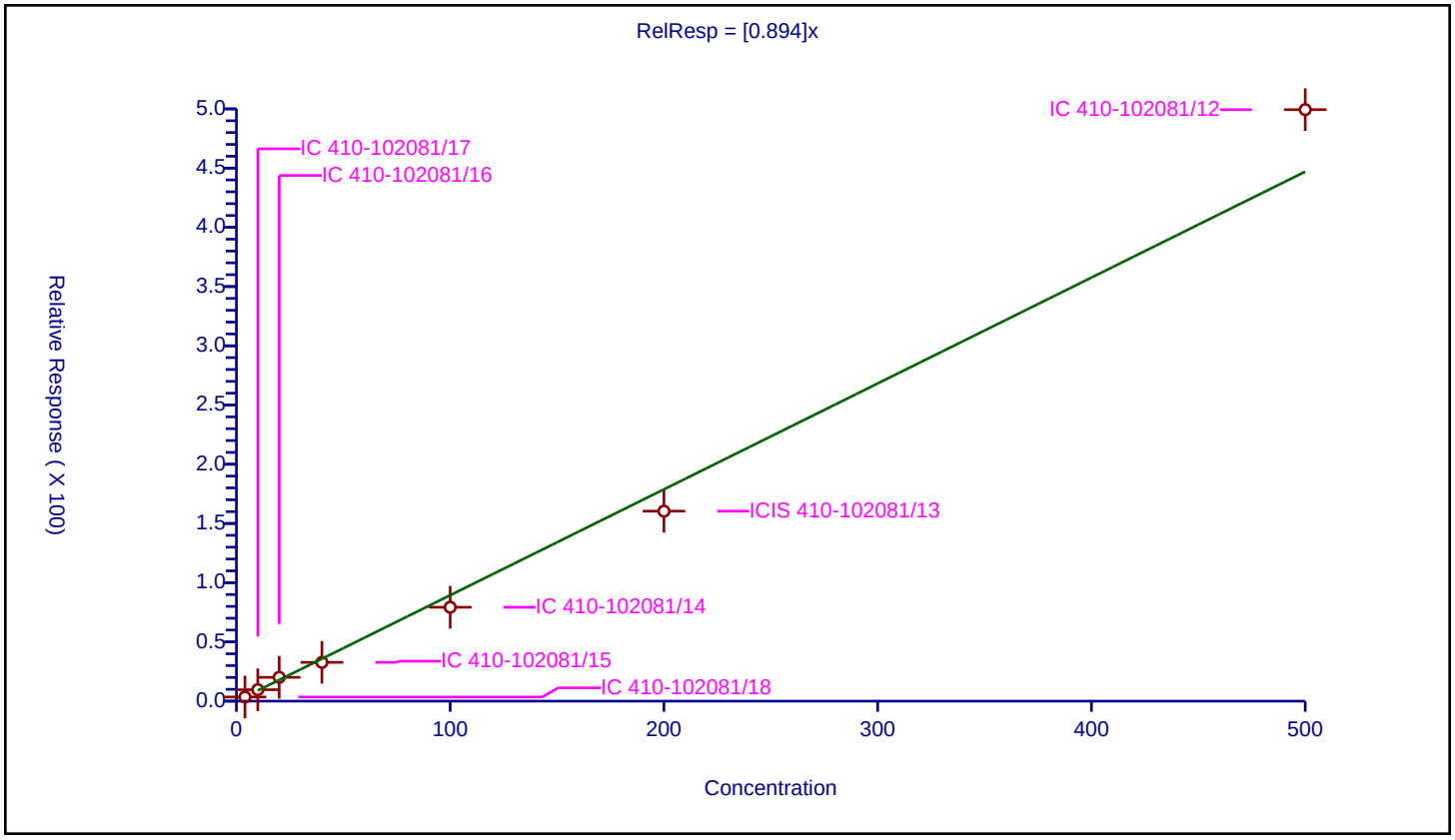
Curve Coefficients

Intercept:	0
Slope:	0.894

Error Coefficients

Standard Error:	695000
Relative Standard Error:	10.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	4.0	3.50099	50.0	174165.0	0.875248	Y
2	IC 410-102081/17	10.0	9.650646	50.0	171087.0	0.965065	Y
3	IC 410-102081/16	20.0	20.11463	50.0	165663.0	1.005732	Y
4	IC 410-102081/15	40.0	32.737696	50.0	173036.0	0.818442	Y
5	IC 410-102081/14	100.0	79.273022	50.0	171477.0	0.79273	Y
6	ICIS 410-102081/13	200.0	160.394547	50.0	195338.0	0.801973	Y
7	IC 410-102081/12	500.0	499.345187	50.0	155617.0	0.99869	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

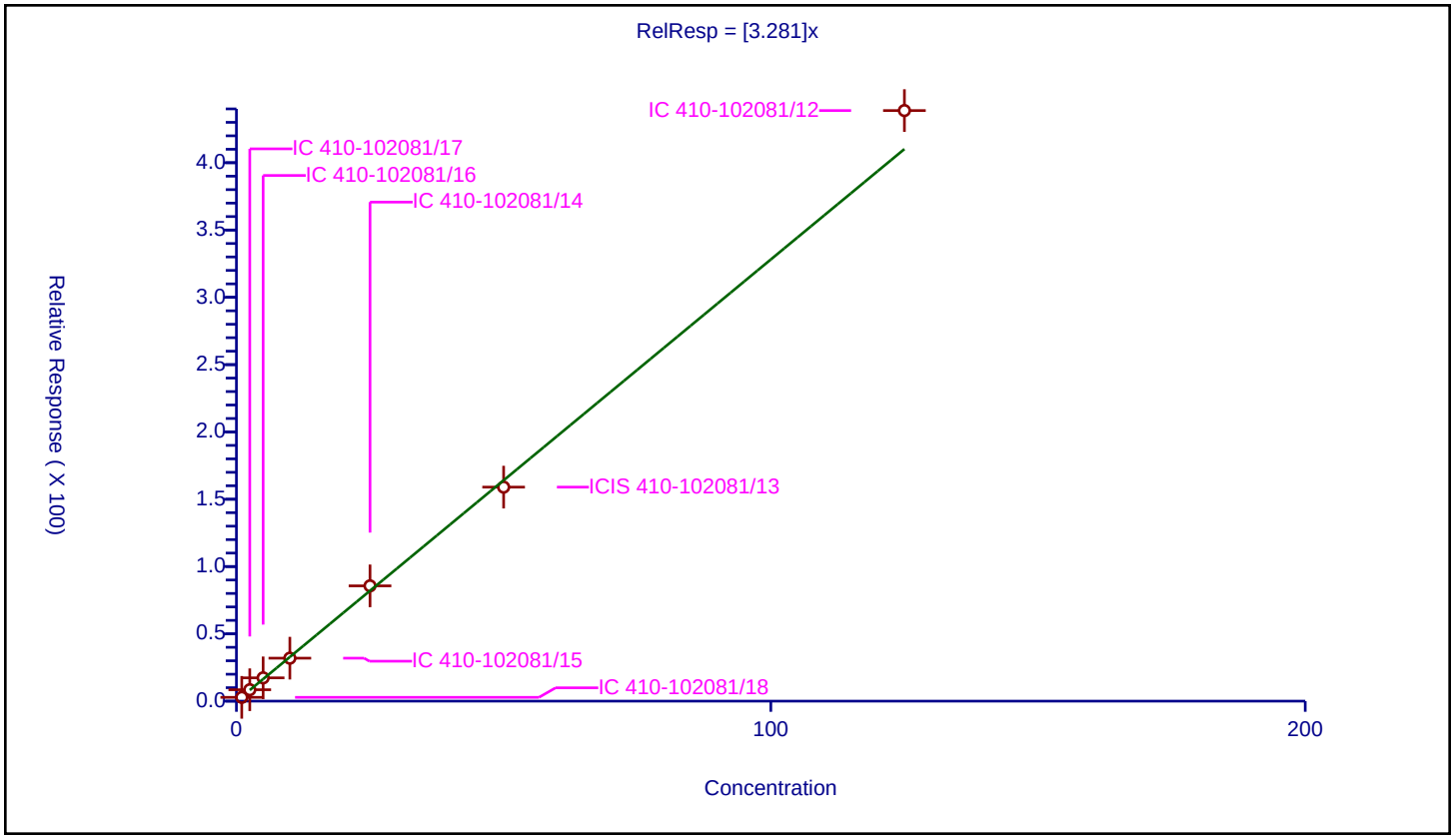
Curve Coefficients

Intercept:	0
Slope:	3.281

Error Coefficients

Standard Error:	626000
Relative Standard Error:	7.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	1.0	2.811127	50.0	174165.0	2.811127	Y
2	IC 410-102081/17	2.5	8.470836	50.0	171087.0	3.388335	Y
3	IC 410-102081/16	5.0	17.30652	50.0	165663.0	3.461304	Y
4	IC 410-102081/15	10.0	31.918214	50.0	173036.0	3.191821	Y
5	IC 410-102081/14	25.0	85.654344	50.0	171477.0	3.426174	Y
6	ICIS 410-102081/13	50.0	158.994666	50.0	195338.0	3.179893	Y
7	IC 410-102081/12	125.0	438.757012	50.0	155617.0	3.510056	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

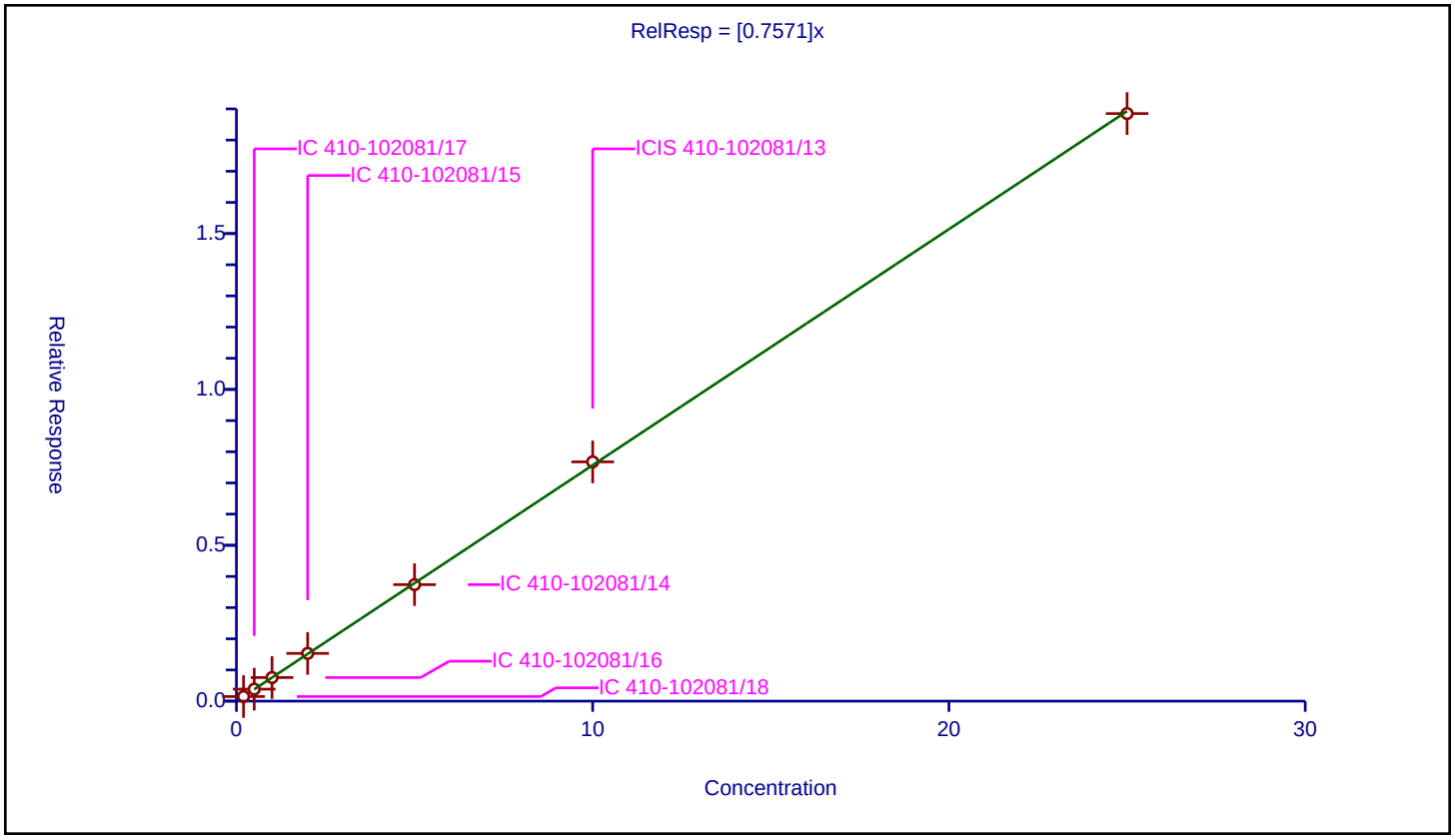
Curve Coefficients

Intercept:	0
Slope:	0.7571

Error Coefficients

Standard Error:	1910000
Relative Standard Error:	1.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.147696	10.0	2149149.0	0.738478	Y
2	IC 410-102081/17	0.5	0.384842	10.0	2186974.0	0.769685	Y
3	IC 410-102081/16	1.0	0.756297	10.0	2195473.0	0.756297	Y
4	IC 410-102081/15	2.0	1.531961	10.0	2201773.0	0.76598	Y
5	IC 410-102081/14	5.0	3.737413	10.0	2225895.0	0.747483	Y
6	ICIS 410-102081/13	10.0	7.676323	10.0	2227977.0	0.767632	Y
7	IC 410-102081/12	25.0	18.850196	10.0	2252002.0	0.754008	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

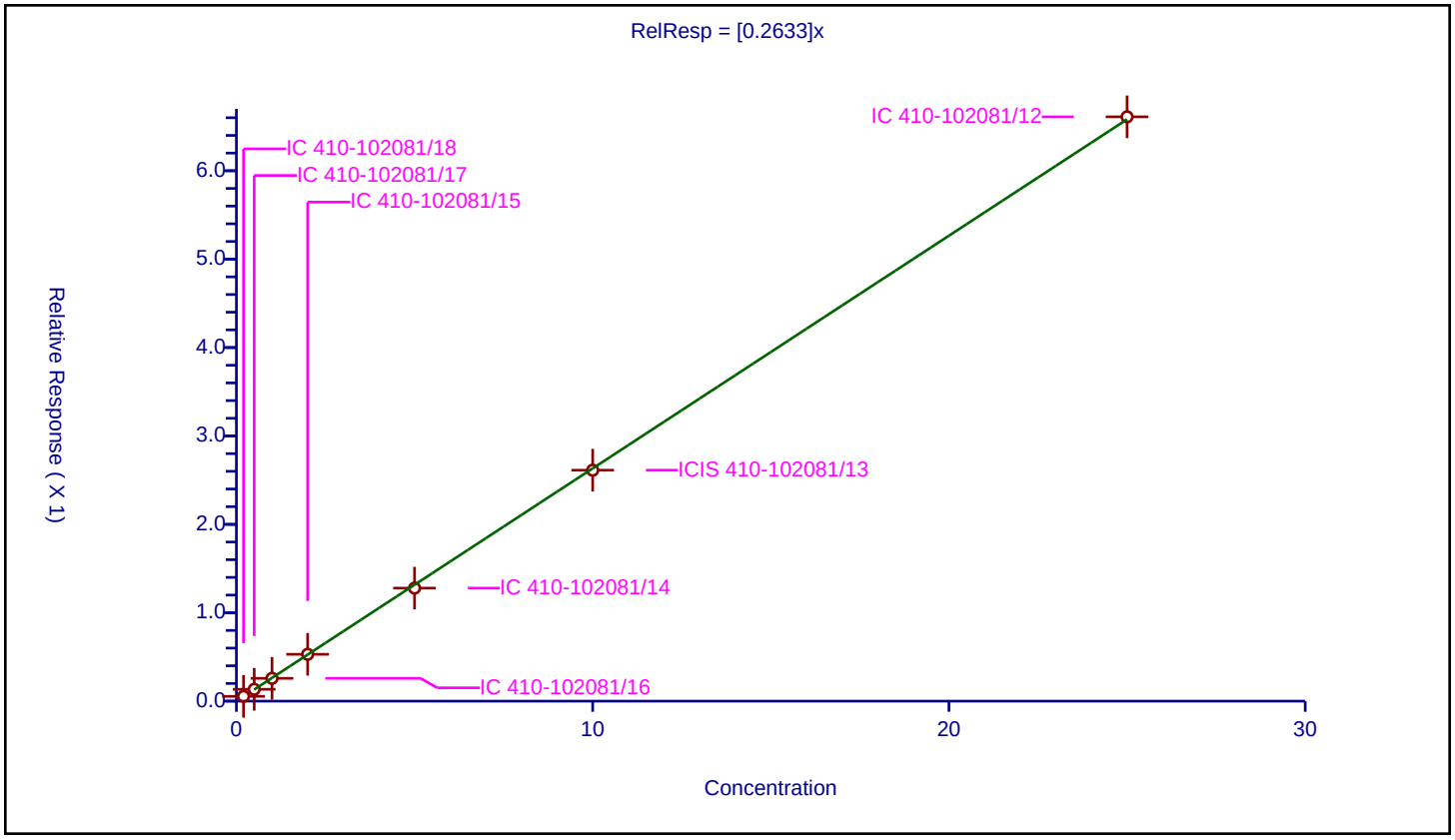
Curve Coefficients

Intercept:	0
Slope:	0.2633

Error Coefficients

Standard Error:	665000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.054105	10.0	2149149.0	0.270526	Y
2	IC 410-102081/17	0.5	0.133993	10.0	2186974.0	0.267987	Y
3	IC 410-102081/16	1.0	0.258199	10.0	2195473.0	0.258199	Y
4	IC 410-102081/15	2.0	0.529746	10.0	2201773.0	0.264873	Y
5	IC 410-102081/14	5.0	1.278461	10.0	2225895.0	0.255692	Y
6	ICIS 410-102081/13	10.0	2.612383	10.0	2227977.0	0.261238	Y
7	IC 410-102081/12	25.0	6.610198	10.0	2252002.0	0.264408	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

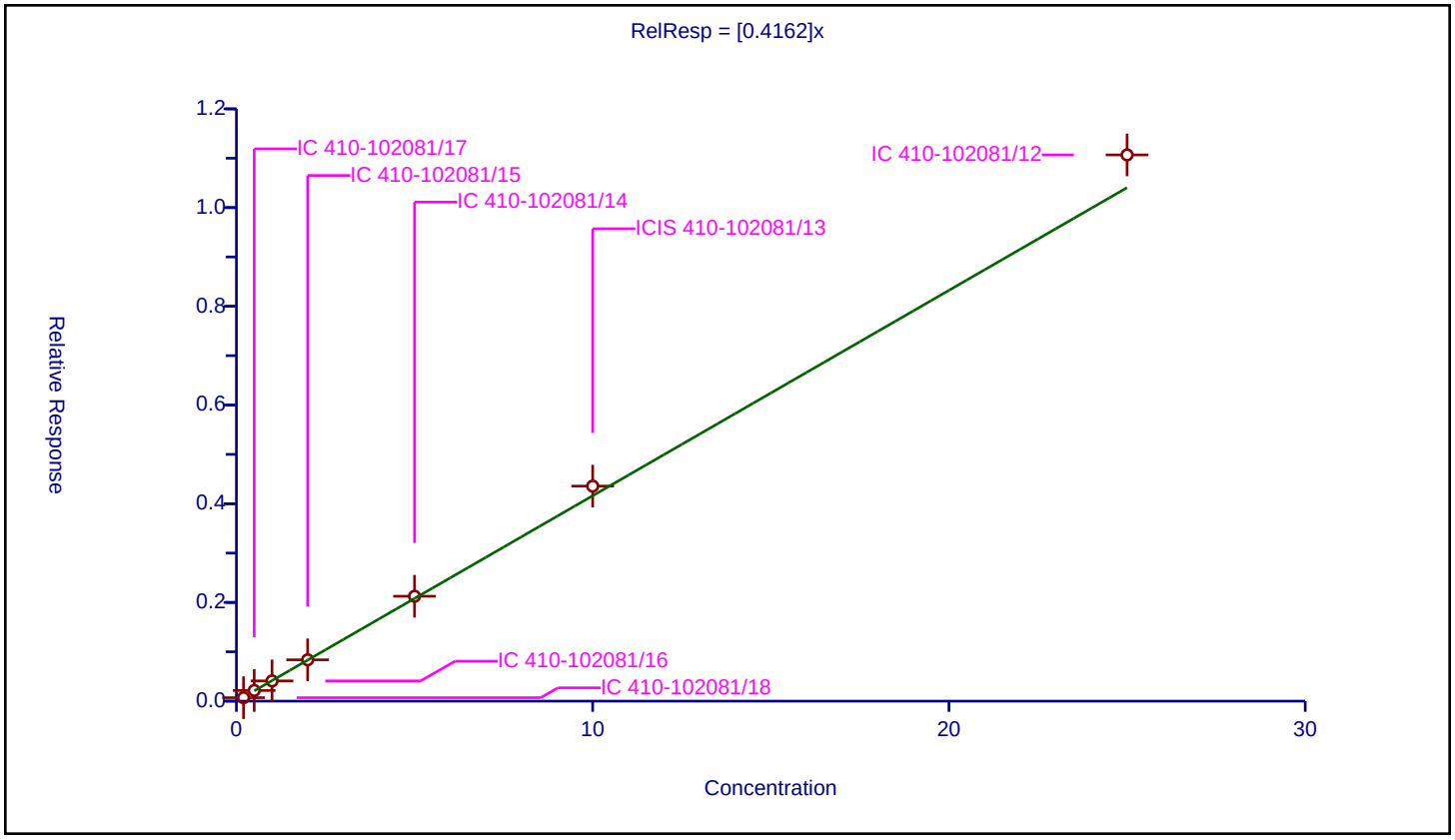
Curve Coefficients

Intercept:	0
Slope:	0.4162

Error Coefficients

Standard Error:	1110000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.069707	10.0	2149149.0	0.348533	Y
2	IC 410-102081/17	0.5	0.216372	10.0	2186974.0	0.432744	Y
3	IC 410-102081/16	1.0	0.409834	10.0	2195473.0	0.409834	Y
4	IC 410-102081/15	2.0	0.837362	10.0	2201773.0	0.418681	Y
5	IC 410-102081/14	5.0	2.125168	10.0	2225895.0	0.425034	Y
6	ICIS 410-102081/13	10.0	4.357006	10.0	2227977.0	0.435701	Y
7	IC 410-102081/12	25.0	11.067304	10.0	2252002.0	0.442692	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

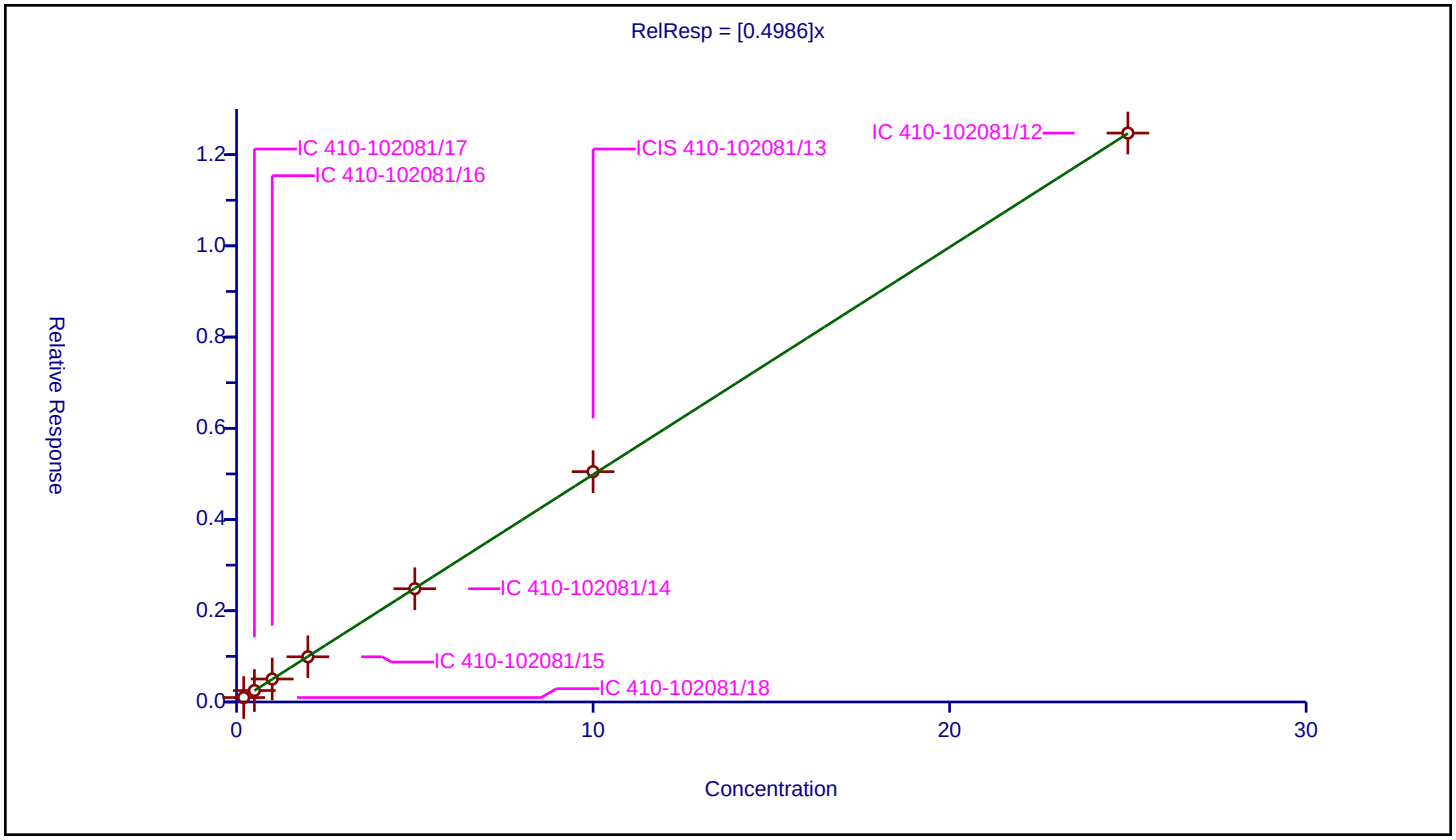
Curve Coefficients

Intercept:	0
Slope:	0.4986

Error Coefficients

Standard Error:	1260000
Relative Standard Error:	1.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.097597	10.0	2149149.0	0.487984	Y
2	IC 410-102081/17	0.5	0.251059	10.0	2186974.0	0.502118	Y
3	IC 410-102081/16	1.0	0.503673	10.0	2195473.0	0.503673	Y
4	IC 410-102081/15	2.0	0.991437	10.0	2201773.0	0.495719	Y
5	IC 410-102081/14	5.0	2.483203	10.0	2225895.0	0.496641	Y
6	ICIS 410-102081/13	10.0	5.049518	10.0	2227977.0	0.504952	Y
7	IC 410-102081/12	25.0	12.472413	10.0	2252002.0	0.498897	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

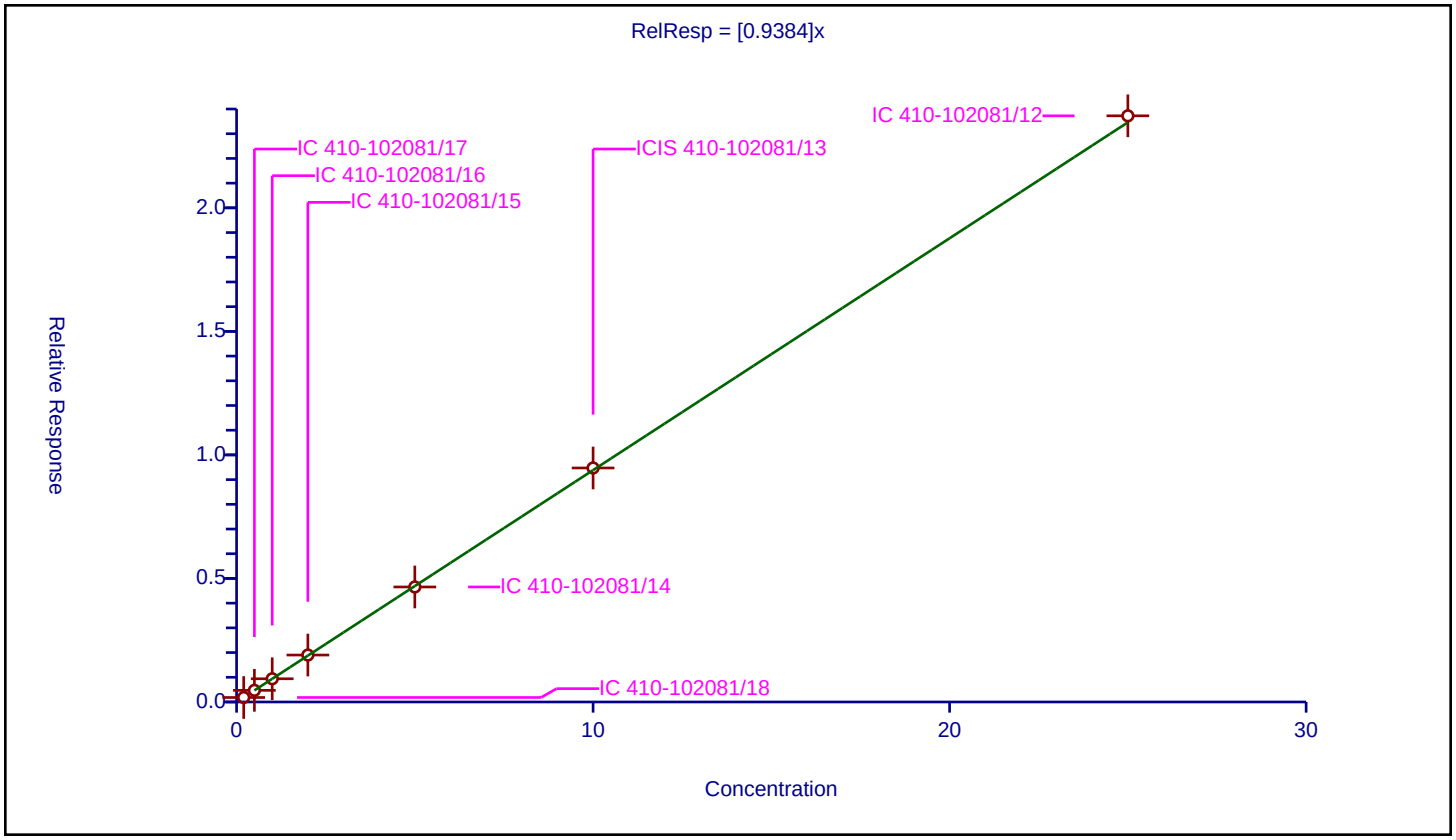
Curve Coefficients

Intercept:	0
Slope:	0.9384

Error Coefficients

Standard Error:	2390000
Relative Standard Error:	1.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.181872	10.0	2149149.0	0.90936	Y
2	IC 410-102081/17	0.5	0.471341	10.0	2186974.0	0.942682	Y
3	IC 410-102081/16	1.0	0.939588	10.0	2195473.0	0.939588	Y
4	IC 410-102081/15	2.0	1.90045	10.0	2201773.0	0.950225	Y
5	IC 410-102081/14	5.0	4.655296	10.0	2225895.0	0.931059	Y
6	ICIS 410-102081/13	10.0	9.471251	10.0	2227977.0	0.947125	Y
7	IC 410-102081/12	25.0	23.724806	10.0	2252002.0	0.948992	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

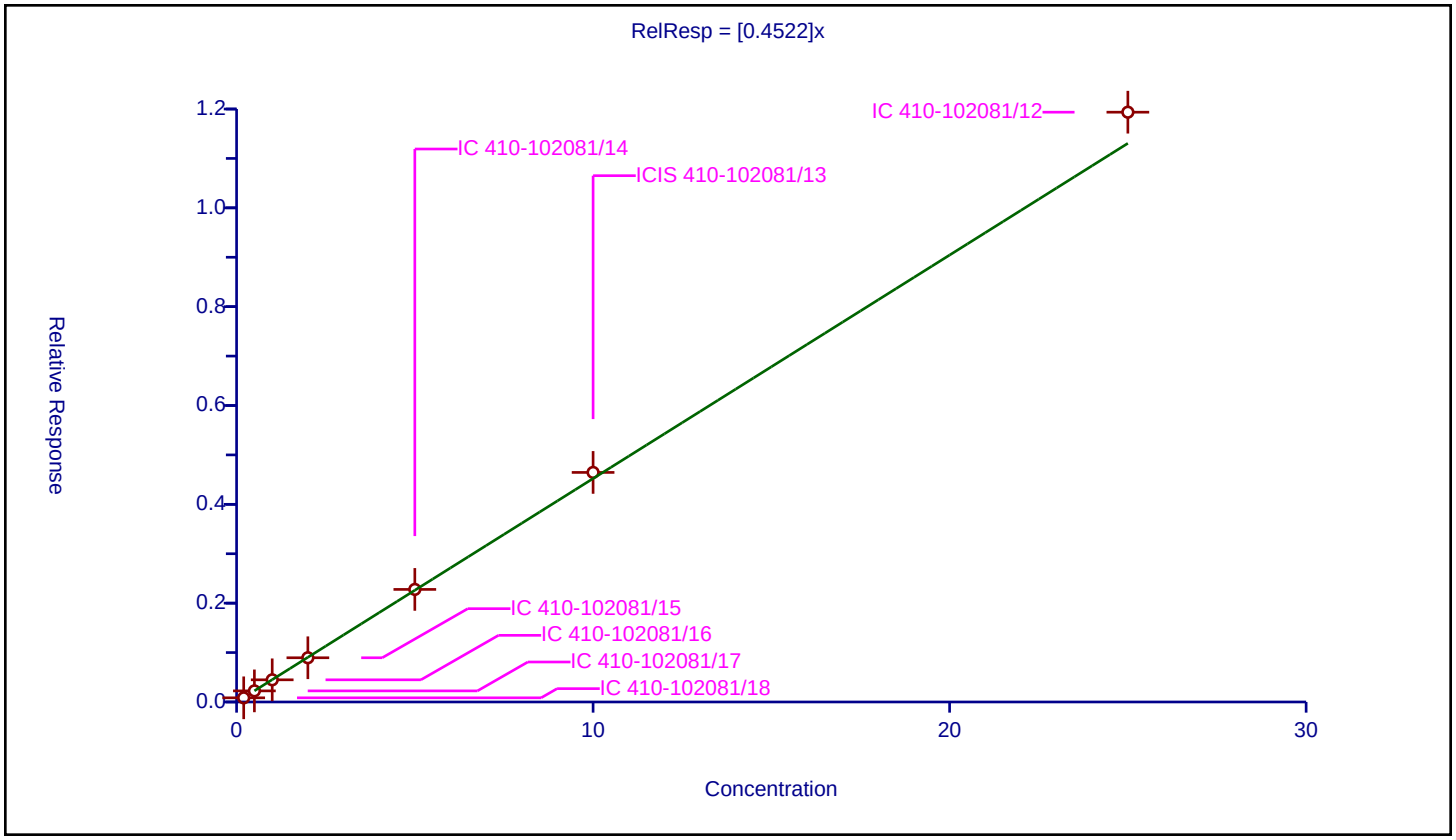
Curve Coefficients

Intercept:	0
Slope:	0.4522

Error Coefficients

Standard Error:	1200000
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 410-102081/18	0.2	0.08441	10.0	2149149.0	0.422051	Y
2	IC 410-102081/17	0.5	0.224758	10.0	2186974.0	0.449516	Y
3	IC 410-102081/16	1.0	0.448614	10.0	2195473.0	0.448614	Y
4	IC 410-102081/15	2.0	0.895233	10.0	2201773.0	0.447617	Y
5	IC 410-102081/14	5.0	2.27832	10.0	2225895.0	0.455664	Y
6	ICIS 410-102081/13	10.0	4.645658	10.0	2227977.0	0.464566	Y
7	IC 410-102081/12	25.0	11.935935	10.0	2252002.0	0.477437	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

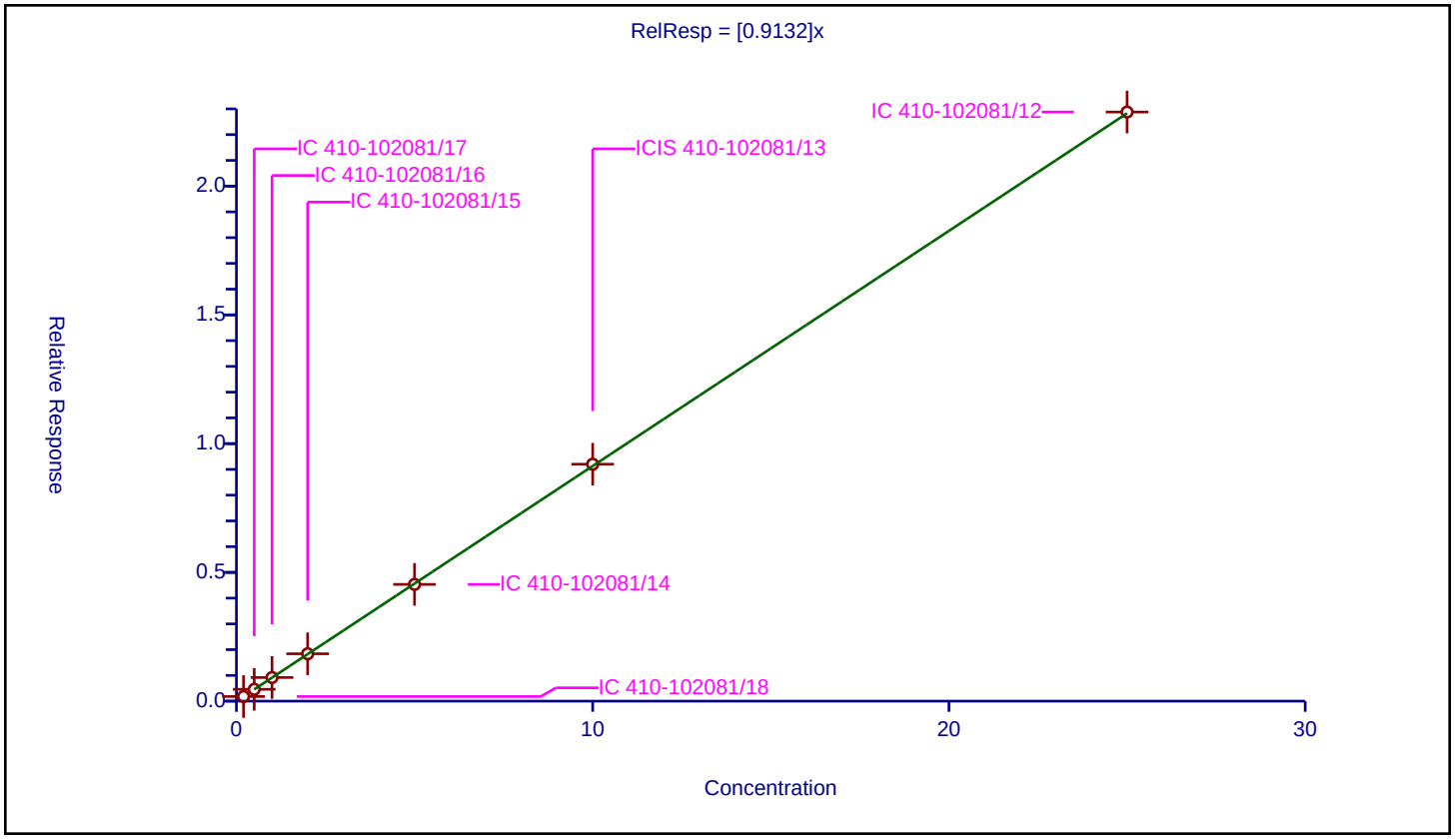
Curve Coefficients

Intercept:	0
Slope:	0.9132

Error Coefficients

Standard Error:	2310000
Relative Standard Error:	1.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.179062	10.0	2149149.0	0.895308	Y
2	IC 410-102081/17	0.5	0.458323	10.0	2186974.0	0.916646	Y
3	IC 410-102081/16	1.0	0.918381	10.0	2195473.0	0.918381	Y
4	IC 410-102081/15	2.0	1.839404	10.0	2201773.0	0.919702	Y
5	IC 410-102081/14	5.0	4.534288	10.0	2225895.0	0.906858	Y
6	ICIS 410-102081/13	10.0	9.201091	10.0	2227977.0	0.920109	Y
7	IC 410-102081/12	25.0	22.878057	10.0	2252002.0	0.915122	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

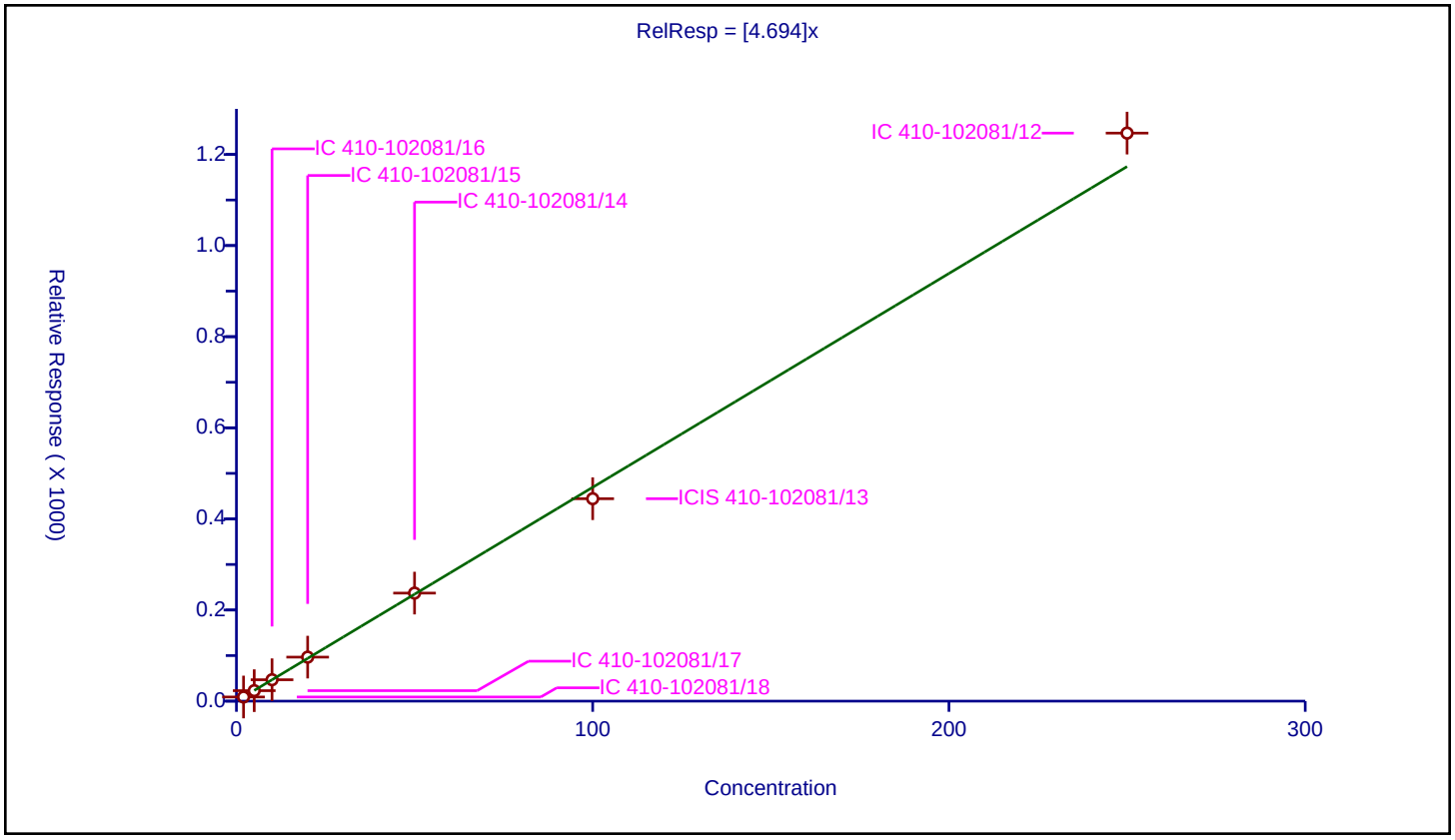
Curve Coefficients

Intercept:	0
Slope:	4.694

Error Coefficients

Standard Error:	1770000
Relative Standard Error:	3.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	2.0	9.098556	50.0	174165.0	4.549278	Y
2	IC 410-102081/17	5.0	23.030096	50.0	171087.0	4.606019	Y
3	IC 410-102081/16	10.0	46.973977	50.0	165663.0	4.697398	Y
4	IC 410-102081/15	20.0	96.587993	50.0	173036.0	4.8294	Y
5	IC 410-102081/14	50.0	237.147839	50.0	171477.0	4.742957	Y
6	ICIS 410-102081/13	100.0	444.358497	50.0	195338.0	4.443585	Y
7	IC 410-102081/12	250.0	1246.880161	50.0	155617.0	4.987521	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

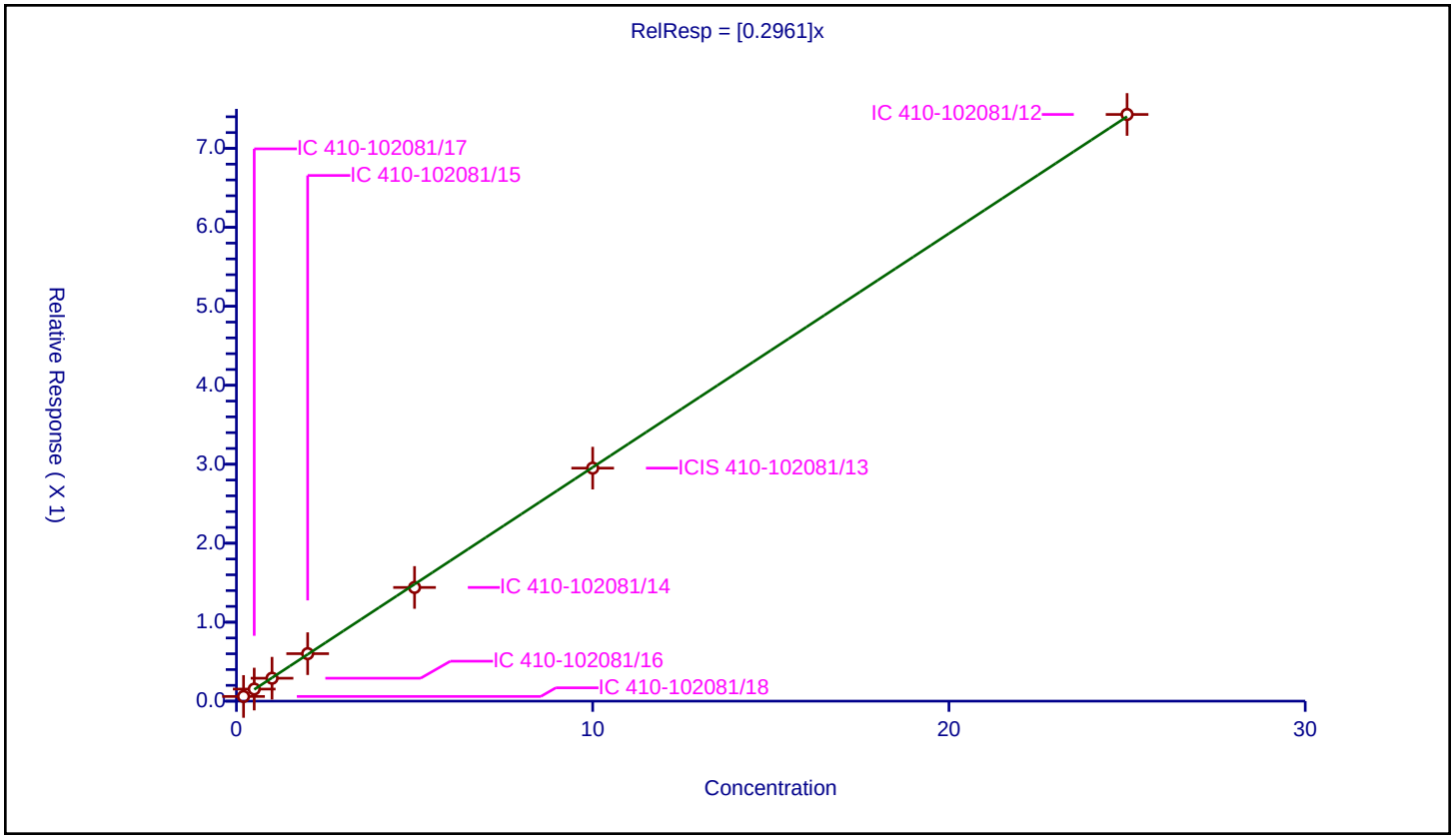
Curve Coefficients

Intercept:	0
Slope:	0.2961

Error Coefficients

Standard Error:	748000
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 410-102081/18	0.2	0.059126	10.0	2149149.0	0.295629	Y
2	IC 410-102081/17	0.5	0.153033	10.0	2186974.0	0.306067	Y
3	IC 410-102081/16	1.0	0.290243	10.0	2195473.0	0.290243	Y
4	IC 410-102081/15	2.0	0.601352	10.0	2201773.0	0.300676	Y
5	IC 410-102081/14	5.0	1.439619	10.0	2225895.0	0.287924	Y
6	ICIS 410-102081/13	10.0	2.950762	10.0	2227977.0	0.295076	Y
7	IC 410-102081/12	25.0	7.429389	10.0	2252002.0	0.297176	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

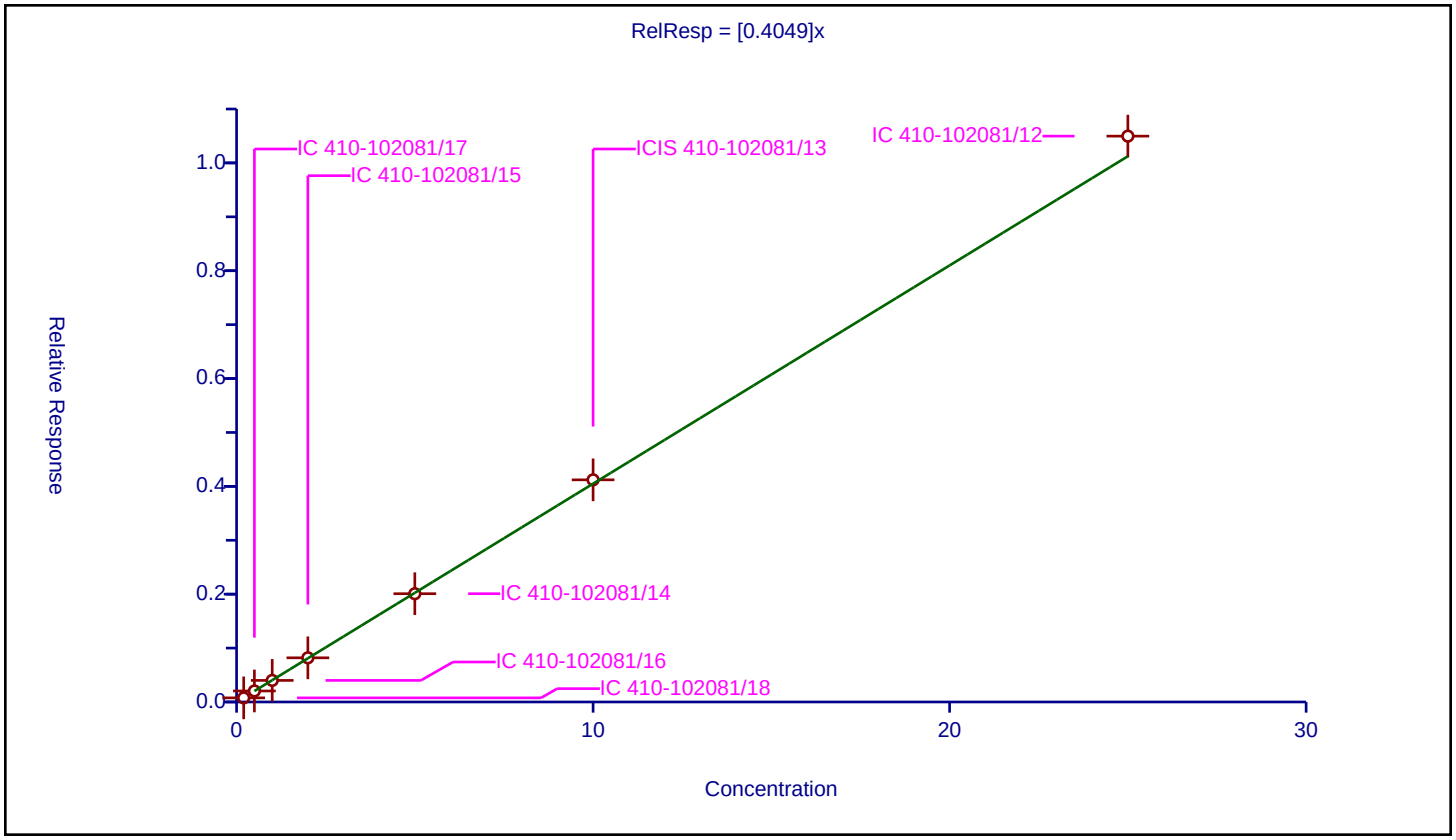
Curve Coefficients

Intercept:	0
Slope:	0.4049

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 410-102081/18	0.2	0.076412	10.0	2149149.0	0.382058	Y
2	IC 410-102081/17	0.5	0.204351	10.0	2186974.0	0.408702	Y
3	IC 410-102081/16	1.0	0.400278	10.0	2195473.0	0.400278	Y
4	IC 410-102081/15	2.0	0.819485	10.0	2201773.0	0.409743	Y
5	IC 410-102081/14	5.0	2.008841	10.0	2225895.0	0.401768	Y
6	ICIS 410-102081/13	10.0	4.120783	10.0	2227977.0	0.412078	Y
7	IC 410-102081/12	25.0	10.497064	10.0	2252002.0	0.419883	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

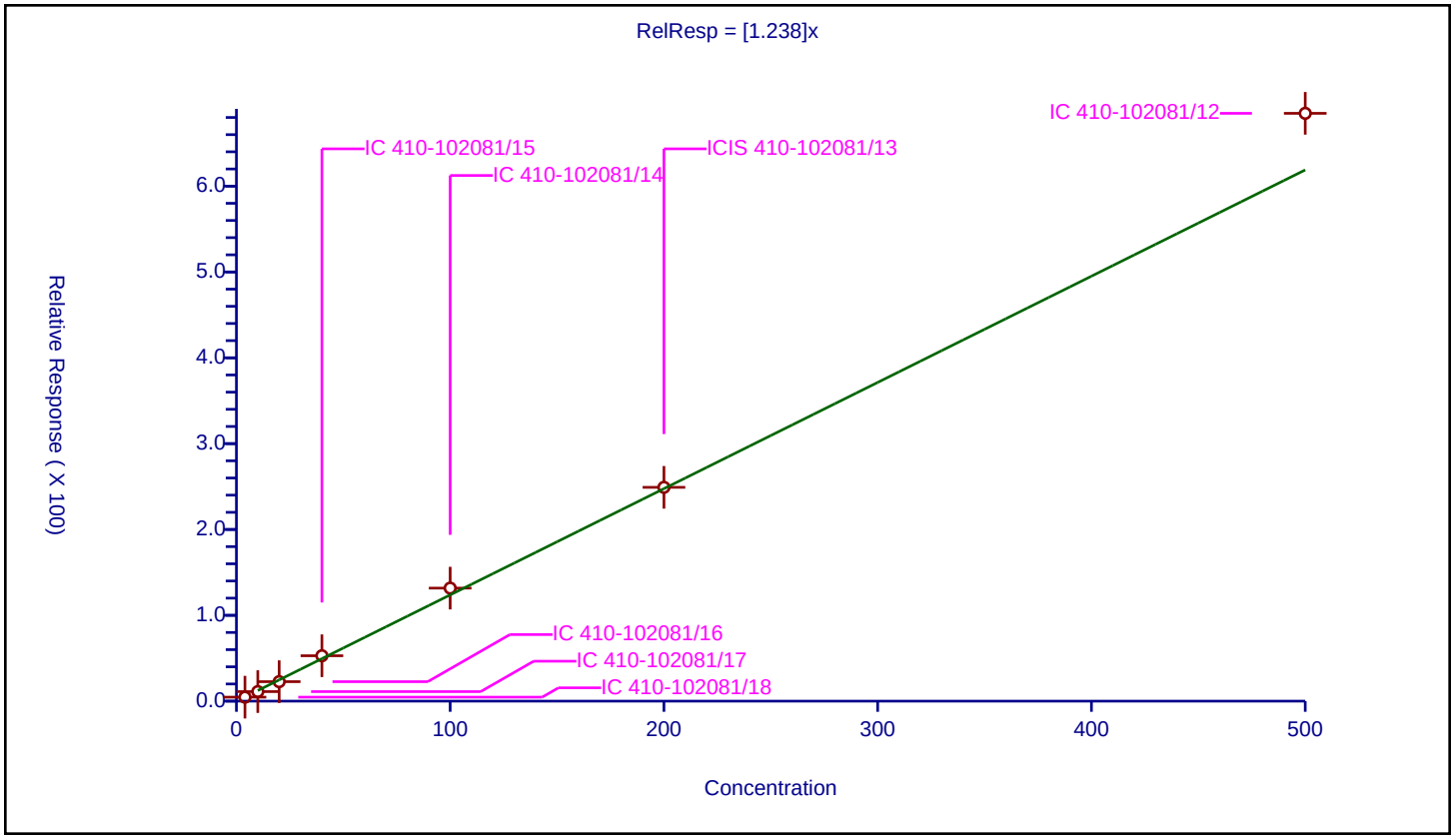
Curve Coefficients

Intercept:	0
Slope:	1.238

Error Coefficients

Standard Error:	977000
Relative Standard Error:	8.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	4.0	4.645882	50.0	174165.0	1.16147	Y
2	IC 410-102081/17	10.0	11.134686	50.0	171087.0	1.113469	Y
3	IC 410-102081/16	20.0	22.703018	50.0	165663.0	1.135151	Y
4	IC 410-102081/15	40.0	52.882348	50.0	173036.0	1.322059	Y
5	IC 410-102081/14	100.0	131.681508	50.0	171477.0	1.316815	Y
6	ICIS 410-102081/13	200.0	249.105653	50.0	195338.0	1.245528	Y
7	IC 410-102081/12	500.0	684.825887	50.0	155617.0	1.369652	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

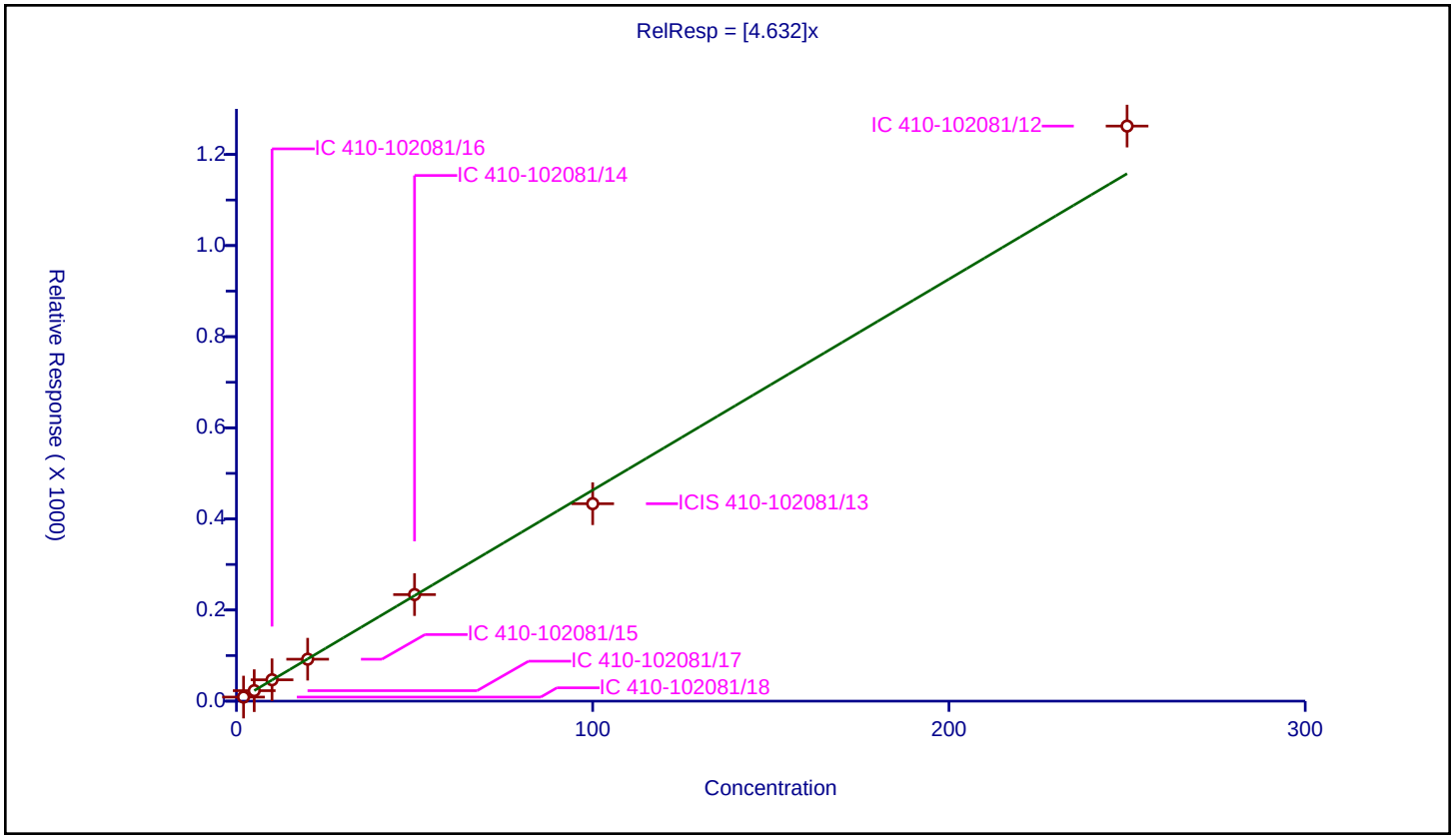
Curve Coefficients

Intercept:	0
Slope:	4.632

Error Coefficients

Standard Error:	1780000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	2.0	8.934631	50.0	174165.0	4.467315	Y
2	IC 410-102081/17	5.0	23.016068	50.0	171087.0	4.603214	Y
3	IC 410-102081/16	10.0	46.879508	50.0	165663.0	4.687951	Y
4	IC 410-102081/15	20.0	92.04992	50.0	173036.0	4.602496	Y
5	IC 410-102081/14	50.0	233.877138	50.0	171477.0	4.677543	Y
6	ICIS 410-102081/13	100.0	433.343231	50.0	195338.0	4.333432	Y
7	IC 410-102081/12	250.0	1262.265048	50.0	155617.0	5.04906	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

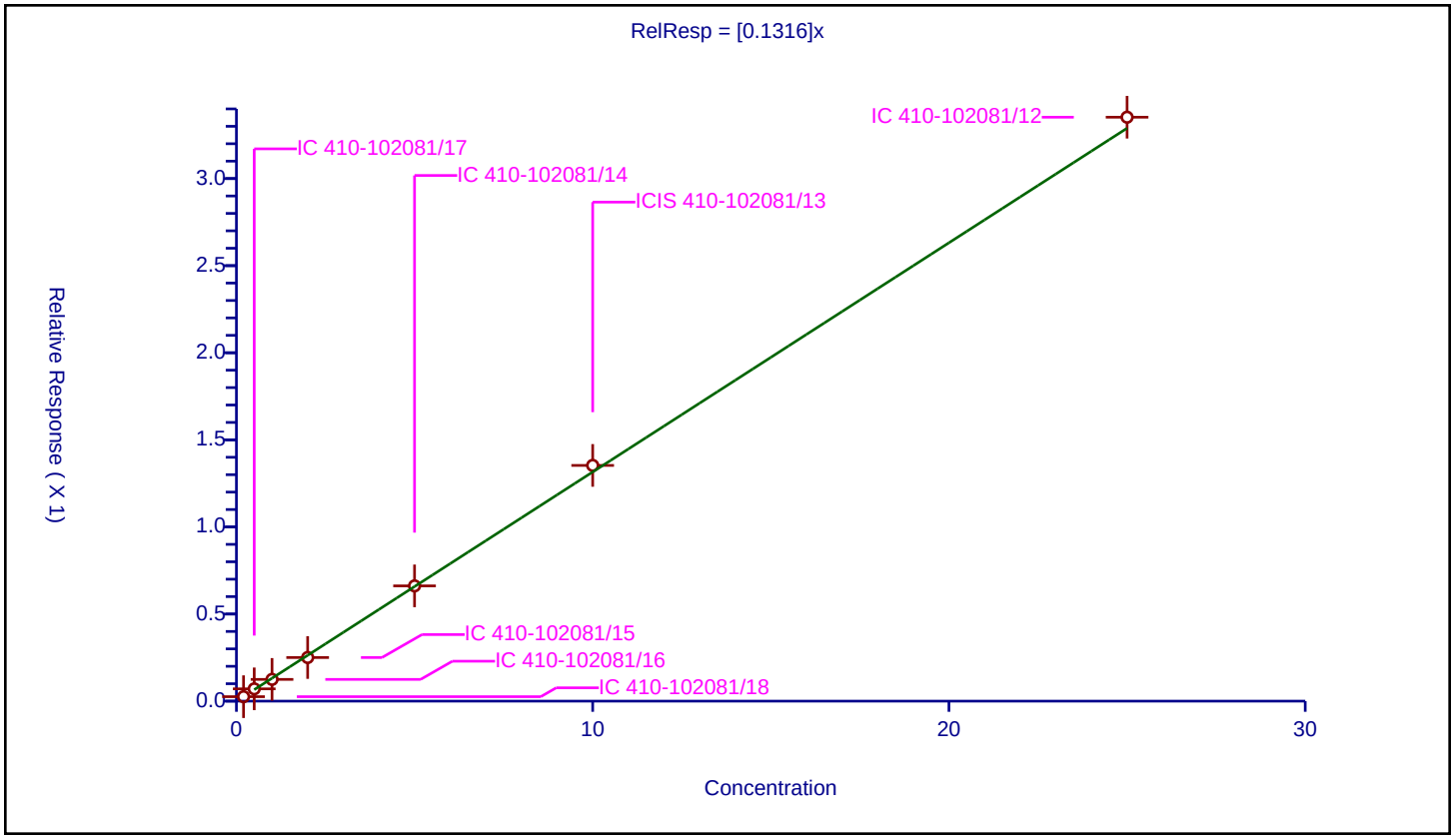
Curve Coefficients

Intercept:	0
Slope:	0.1316

Error Coefficients

Standard Error:	338000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.025596	10.0	2149149.0	0.127981	Y
2	IC 410-102081/17	0.5	0.070568	10.0	2186974.0	0.141136	Y
3	IC 410-102081/16	1.0	0.124889	10.0	2195473.0	0.124889	Y
4	IC 410-102081/15	2.0	0.250421	10.0	2201773.0	0.12521	Y
5	IC 410-102081/14	5.0	0.661617	10.0	2225895.0	0.132323	Y
6	ICIS 410-102081/13	10.0	1.353322	10.0	2227977.0	0.135332	Y
7	IC 410-102081/12	25.0	3.352284	10.0	2252002.0	0.134091	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

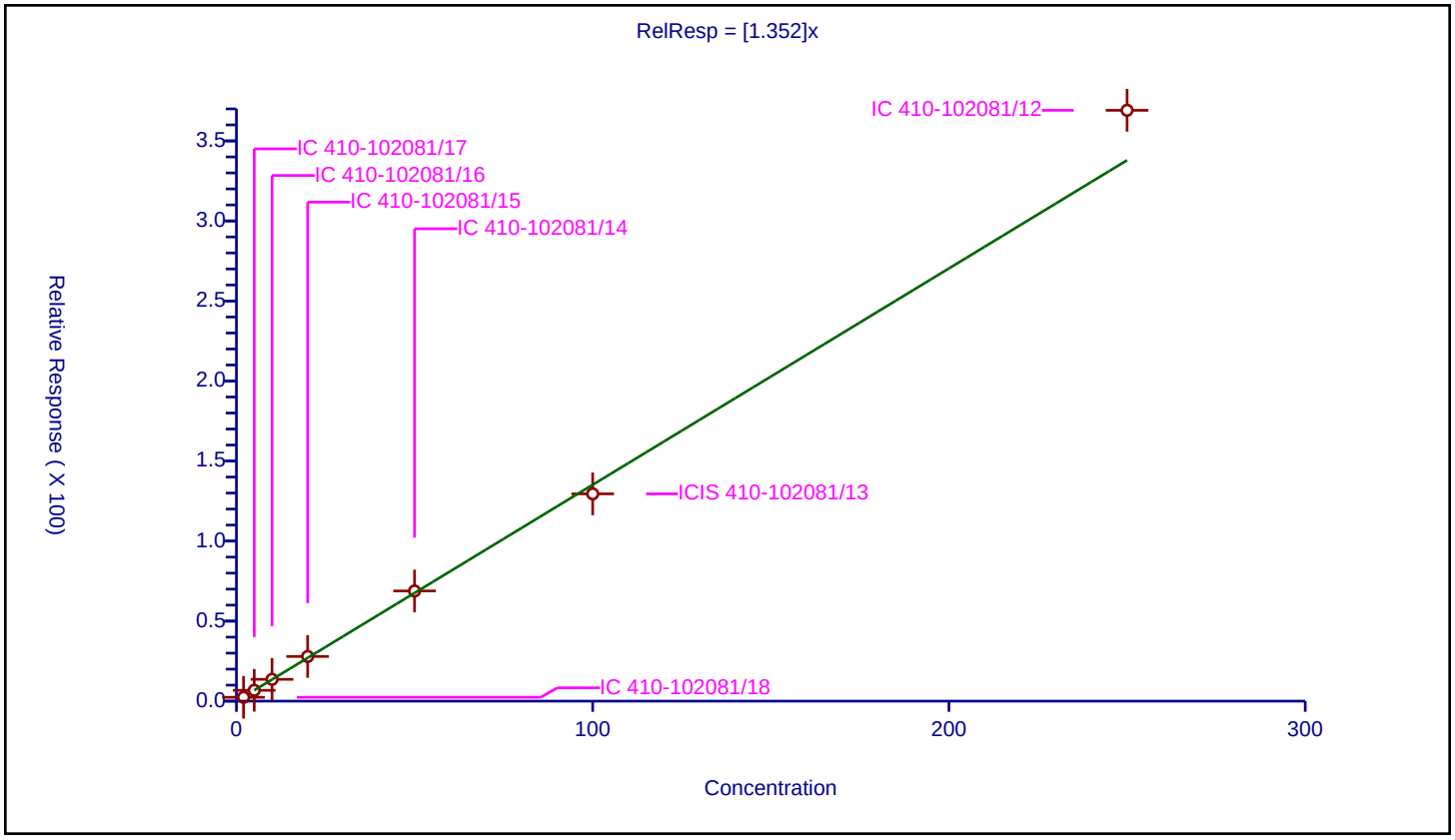
Curve Coefficients

Intercept:	0
Slope:	1.352

Error Coefficients

Standard Error:	523000
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 410-102081/18	2.0	2.404042	50.0	174165.0	1.202021	Y
2	IC 410-102081/17	5.0	6.767317	50.0	171087.0	1.353463	Y
3	IC 410-102081/16	10.0	13.623742	50.0	165663.0	1.362374	Y
4	IC 410-102081/15	20.0	27.919335	50.0	173036.0	1.395967	Y
5	IC 410-102081/14	50.0	68.8206	50.0	171477.0	1.376412	Y
6	ICIS 410-102081/13	100.0	129.500916	50.0	195338.0	1.295009	Y
7	IC 410-102081/12	250.0	369.126124	50.0	155617.0	1.476504	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

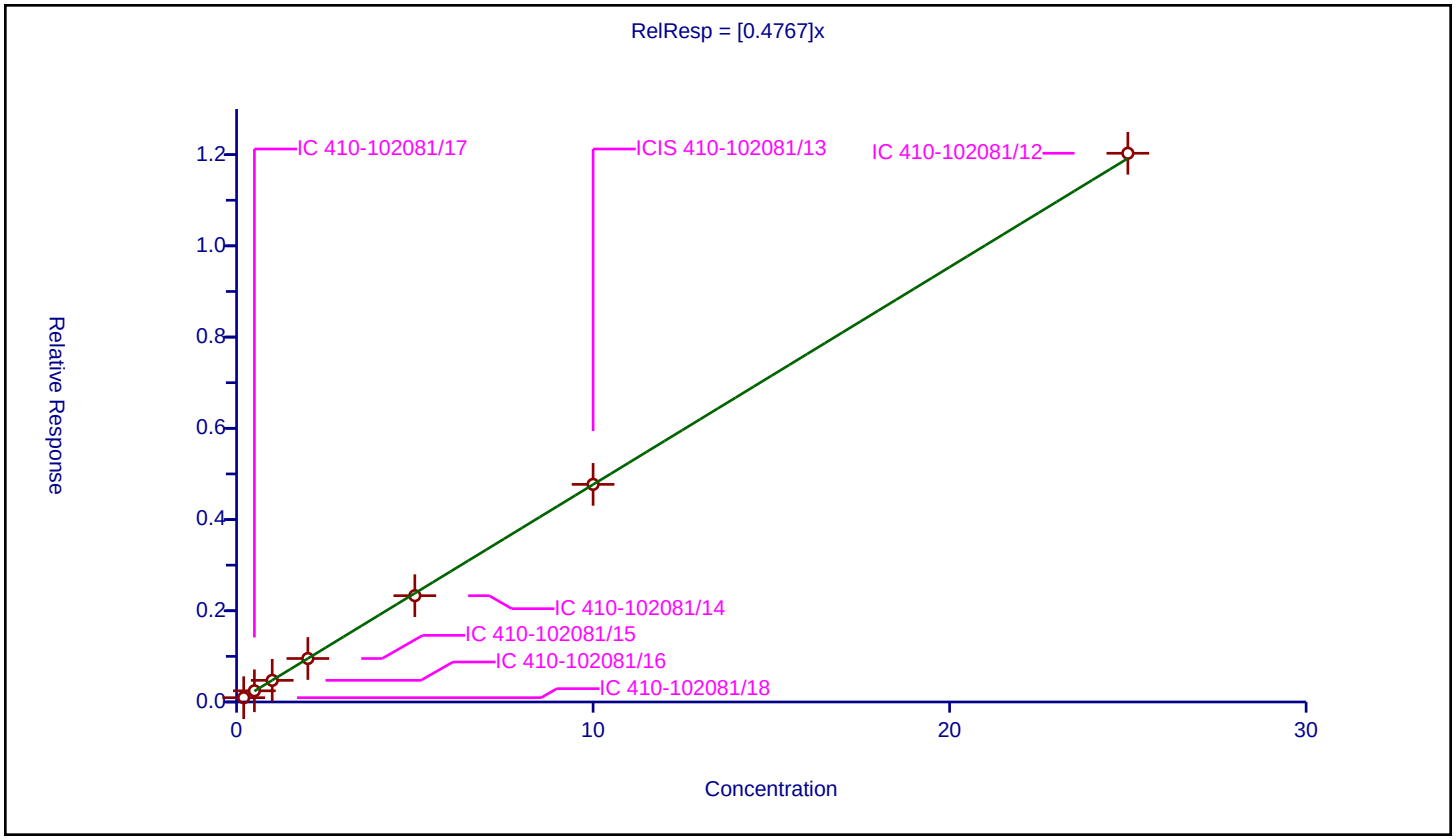
Curve Coefficients

Intercept:	0
Slope:	0.4767

Error Coefficients

Standard Error:	1210000
Relative Standard Error:	1.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.094312	10.0	2149149.0	0.471559	Y
2	IC 410-102081/17	0.5	0.244982	10.0	2186974.0	0.489965	Y
3	IC 410-102081/16	1.0	0.474358	10.0	2195473.0	0.474358	Y
4	IC 410-102081/15	2.0	0.953273	10.0	2201773.0	0.476636	Y
5	IC 410-102081/14	5.0	2.330856	10.0	2225895.0	0.466171	Y
6	ICIS 410-102081/13	10.0	4.771019	10.0	2227977.0	0.477102	Y
7	IC 410-102081/12	25.0	12.029954	10.0	2252002.0	0.481198	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

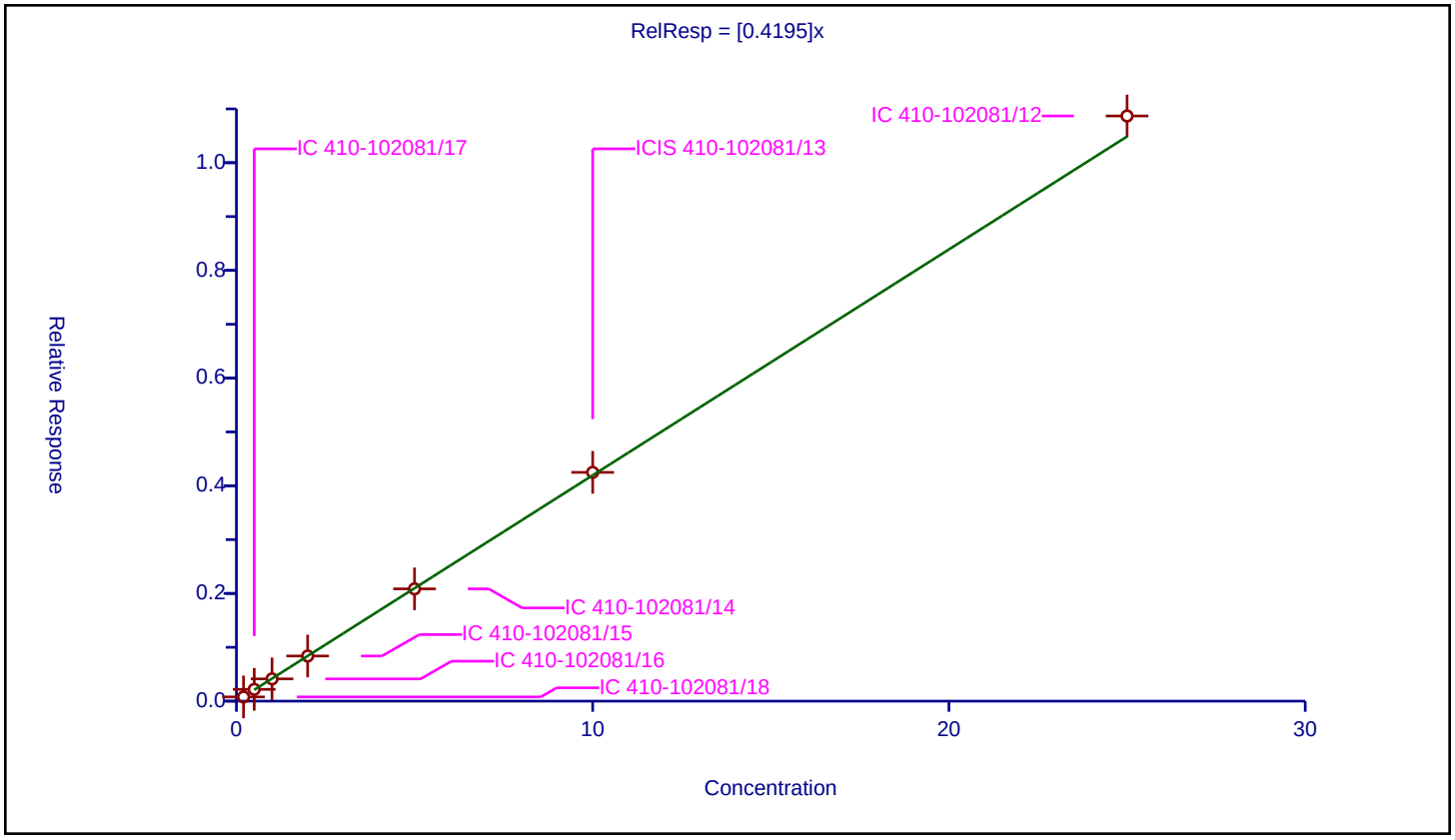
Curve Coefficients

Intercept:	0
Slope:	0.4195

Error Coefficients

Standard Error:	1090000
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 410-102081/18	0.2	0.077803	10.0	2149149.0	0.389014	Y
2	IC 410-102081/17	0.5	0.219134	10.0	2186974.0	0.438268	Y
3	IC 410-102081/16	1.0	0.413355	10.0	2195473.0	0.413355	Y
4	IC 410-102081/15	2.0	0.83832	10.0	2201773.0	0.41916	Y
5	IC 410-102081/14	5.0	2.085094	10.0	2225895.0	0.417019	Y
6	ICIS 410-102081/13	10.0	4.249043	10.0	2227977.0	0.424904	Y
7	IC 410-102081/12	25.0	10.868201	10.0	2252002.0	0.434728	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

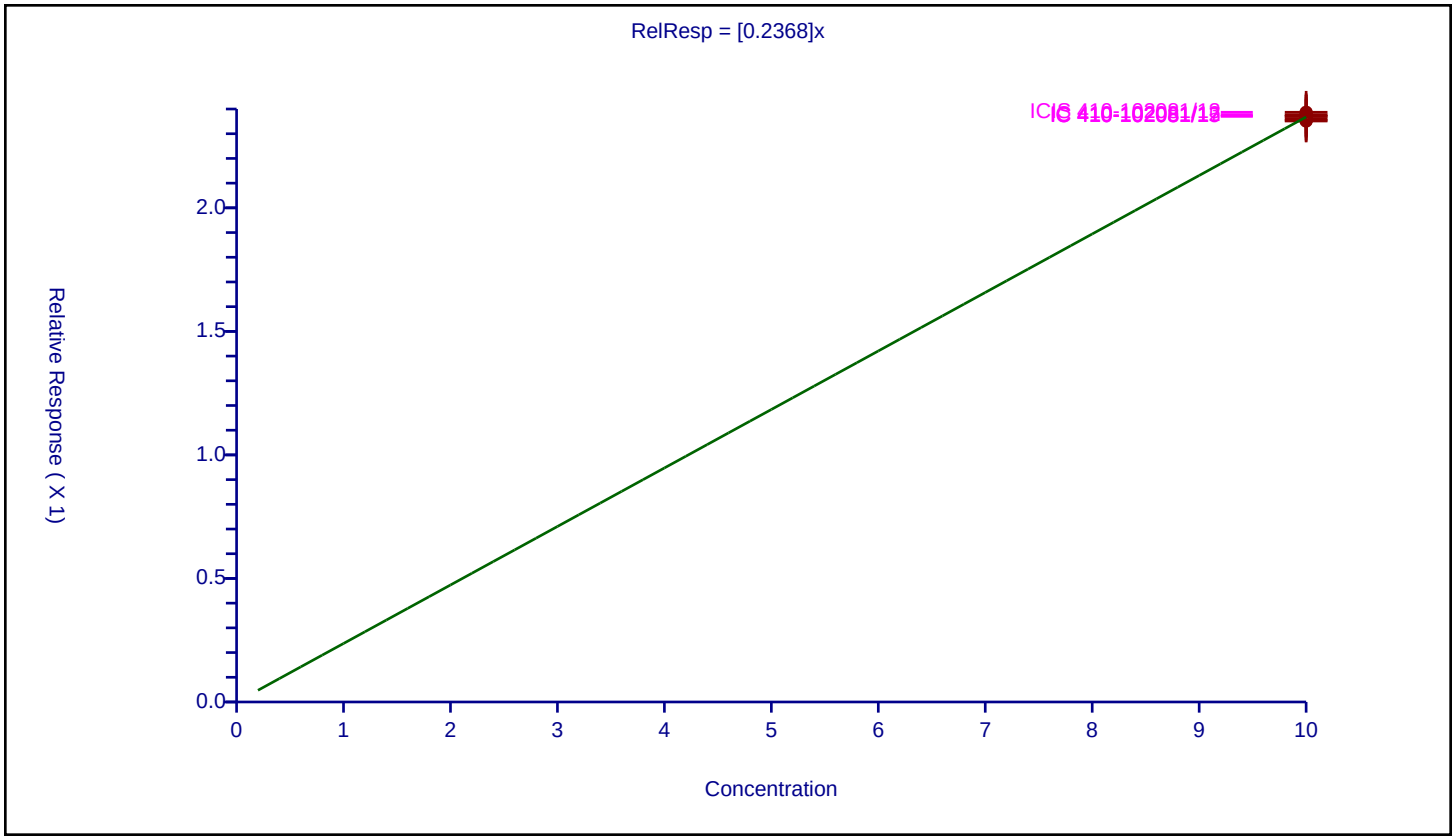
Curve Coefficients

Intercept:	0
Slope:	0.2368

Error Coefficients

Standard Error:	564000
Relative Standard Error:	0.5
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/12	10.0	2.376992	10.0	2252002.0	0.237699	Y
2	ICIS 410-102081/13	10.0	2.386793	10.0	2227977.0	0.238679	Y
3	IC 410-102081/14	10.0	2.351391	10.0	2225895.0	0.235139	Y
4	IC 410-102081/15	10.0	2.372211	10.0	2201773.0	0.237221	Y
5	IC 410-102081/16	10.0	2.361596	10.0	2195473.0	0.23616	Y
6	IC 410-102081/17	10.0	2.370408	10.0	2186974.0	0.237041	Y
7	IC 410-102081/18	10.0	2.354853	10.0	2149149.0	0.235485	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

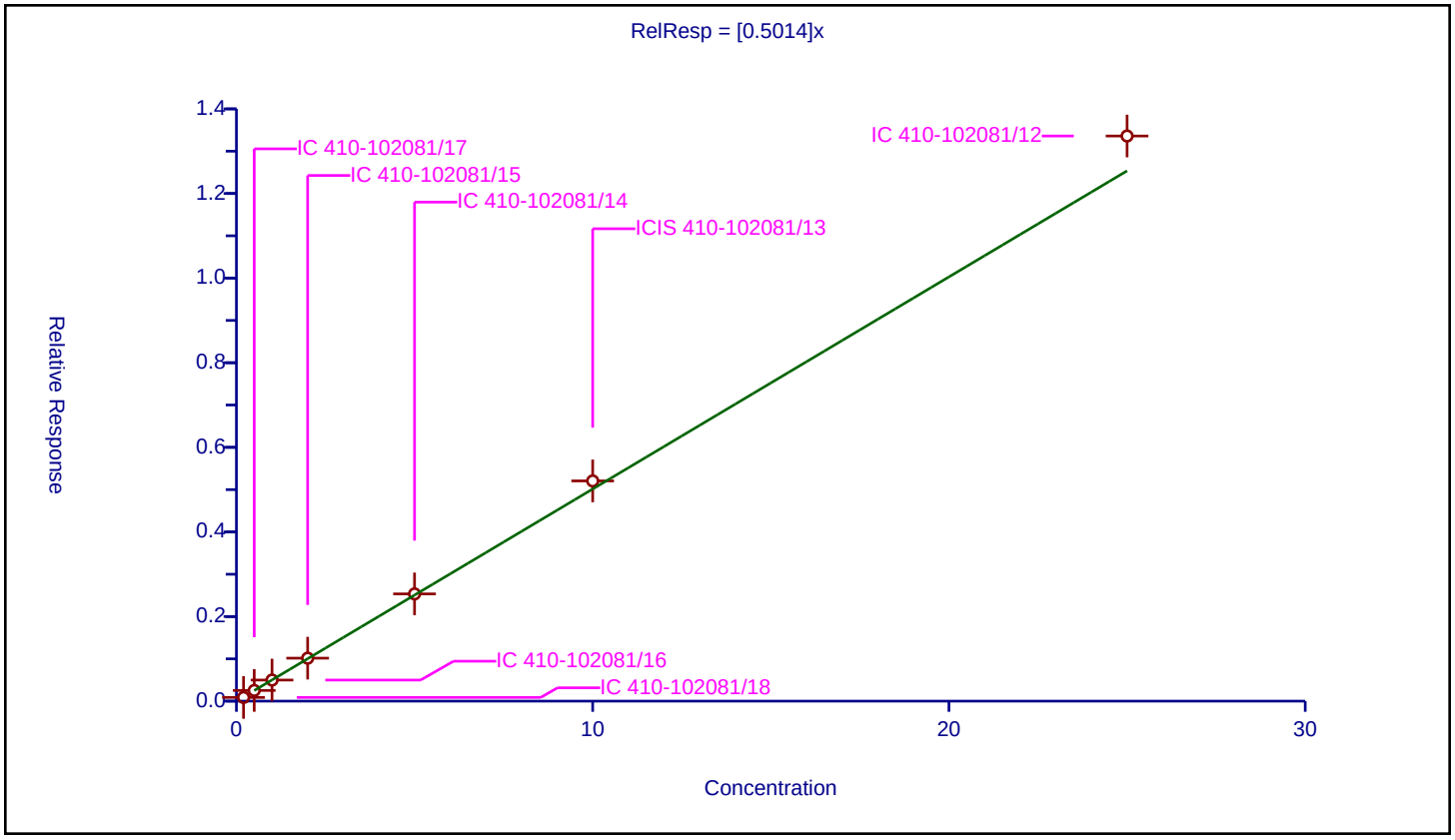
Curve Coefficients

Intercept:	0
Slope:	0.5014

Error Coefficients

Standard Error:	1340000
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 410-102081/18	0.2	0.087346	10.0	2149149.0	0.436731	Y
2	IC 410-102081/17	0.5	0.25249	10.0	2186974.0	0.504981	Y
3	IC 410-102081/16	1.0	0.498489	10.0	2195473.0	0.498489	Y
4	IC 410-102081/15	2.0	1.015663	10.0	2201773.0	0.507832	Y
5	IC 410-102081/14	5.0	2.534751	10.0	2225895.0	0.50695	Y
6	ICIS 410-102081/13	10.0	5.205767	10.0	2227977.0	0.520577	Y
7	IC 410-102081/12	25.0	13.359047	10.0	2252002.0	0.534362	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

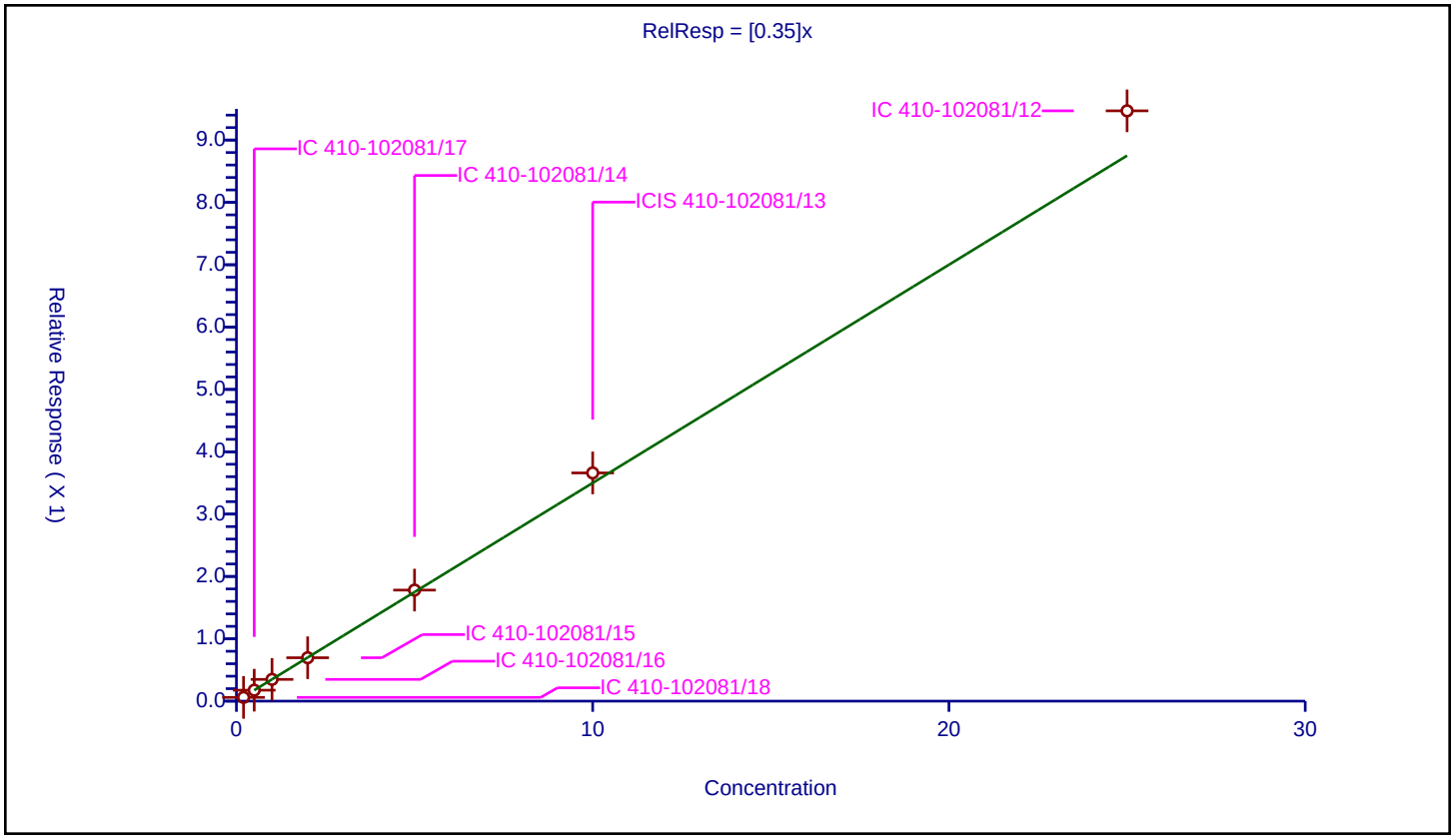
Curve Coefficients

Intercept:	0
Slope:	0.35

Error Coefficients

Standard Error:	949000
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 410-102081/18	0.2	0.060094	10.0	2149149.0	0.300468	Y
2	IC 410-102081/17	0.5	0.175741	10.0	2186974.0	0.351481	Y
3	IC 410-102081/16	1.0	0.348772	10.0	2195473.0	0.348772	Y
4	IC 410-102081/15	2.0	0.696325	10.0	2201773.0	0.348163	Y
5	IC 410-102081/14	5.0	1.781468	10.0	2225895.0	0.356294	Y
6	ICIS 410-102081/13	10.0	3.660873	10.0	2227977.0	0.366087	Y
7	IC 410-102081/12	25.0	9.468917	10.0	2252002.0	0.378757	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

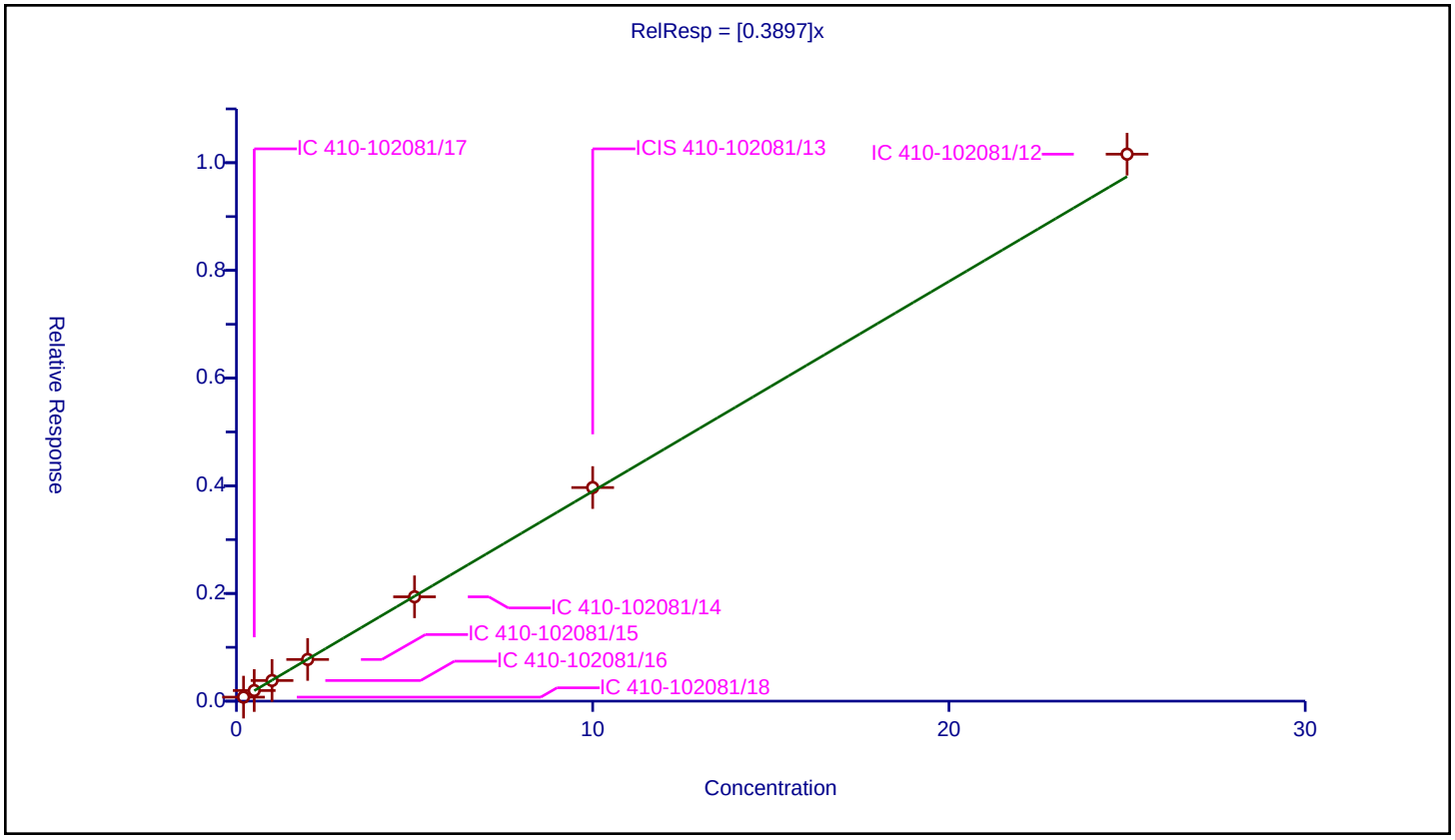
Curve Coefficients

Intercept:	0
Slope:	0.3897

Error Coefficients

Standard Error:	1020000
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 410-102081/18	0.2	0.07455	10.0	2149149.0	0.372752	Y
2	IC 410-102081/17	0.5	0.197145	10.0	2186974.0	0.394289	Y
3	IC 410-102081/16	1.0	0.383289	10.0	2195473.0	0.383289	Y
4	IC 410-102081/15	2.0	0.774312	10.0	2201773.0	0.387156	Y
5	IC 410-102081/14	5.0	1.937962	10.0	2225895.0	0.387592	Y
6	ICIS 410-102081/13	10.0	3.967133	10.0	2227977.0	0.396713	Y
7	IC 410-102081/12	25.0	10.159014	10.0	2252002.0	0.406361	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

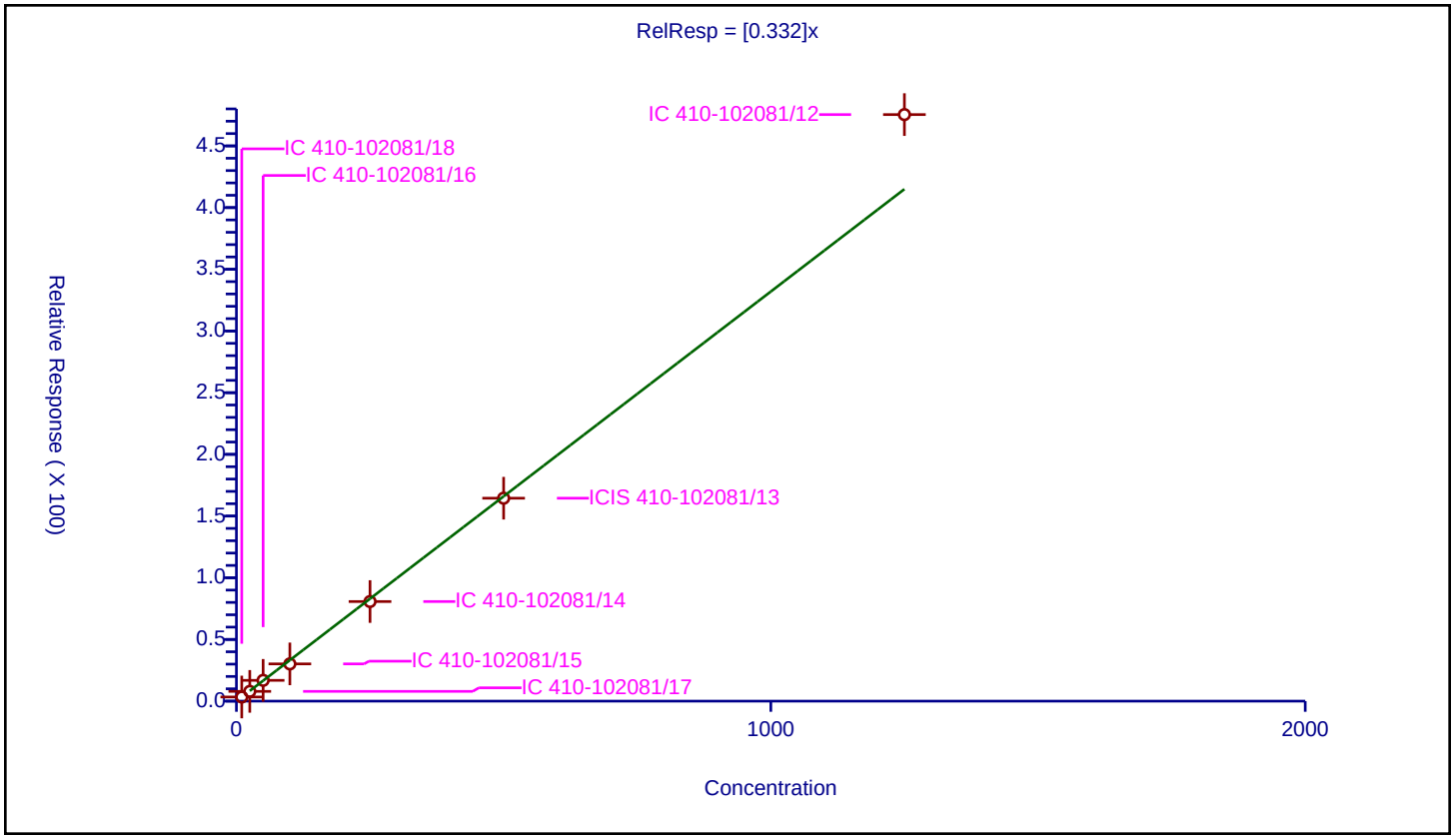
Curve Coefficients

Intercept:	0
Slope:	0.332

Error Coefficients

Standard Error:	670000
Relative Standard Error:	7.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	10.0	3.362903	50.0	174165.0	0.33629	Y
2	IC 410-102081/17	25.0	7.910303	50.0	171087.0	0.316412	Y
3	IC 410-102081/16	50.0	16.852284	50.0	165663.0	0.337046	Y
4	IC 410-102081/15	100.0	30.189672	50.0	173036.0	0.301897	Y
5	IC 410-102081/14	250.0	80.726278	50.0	171477.0	0.322905	Y
6	ICIS 410-102081/13	500.0	164.470047	50.0	195338.0	0.32894	Y
7	IC 410-102081/12	1250.0	475.389257	50.0	155617.0	0.380311	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

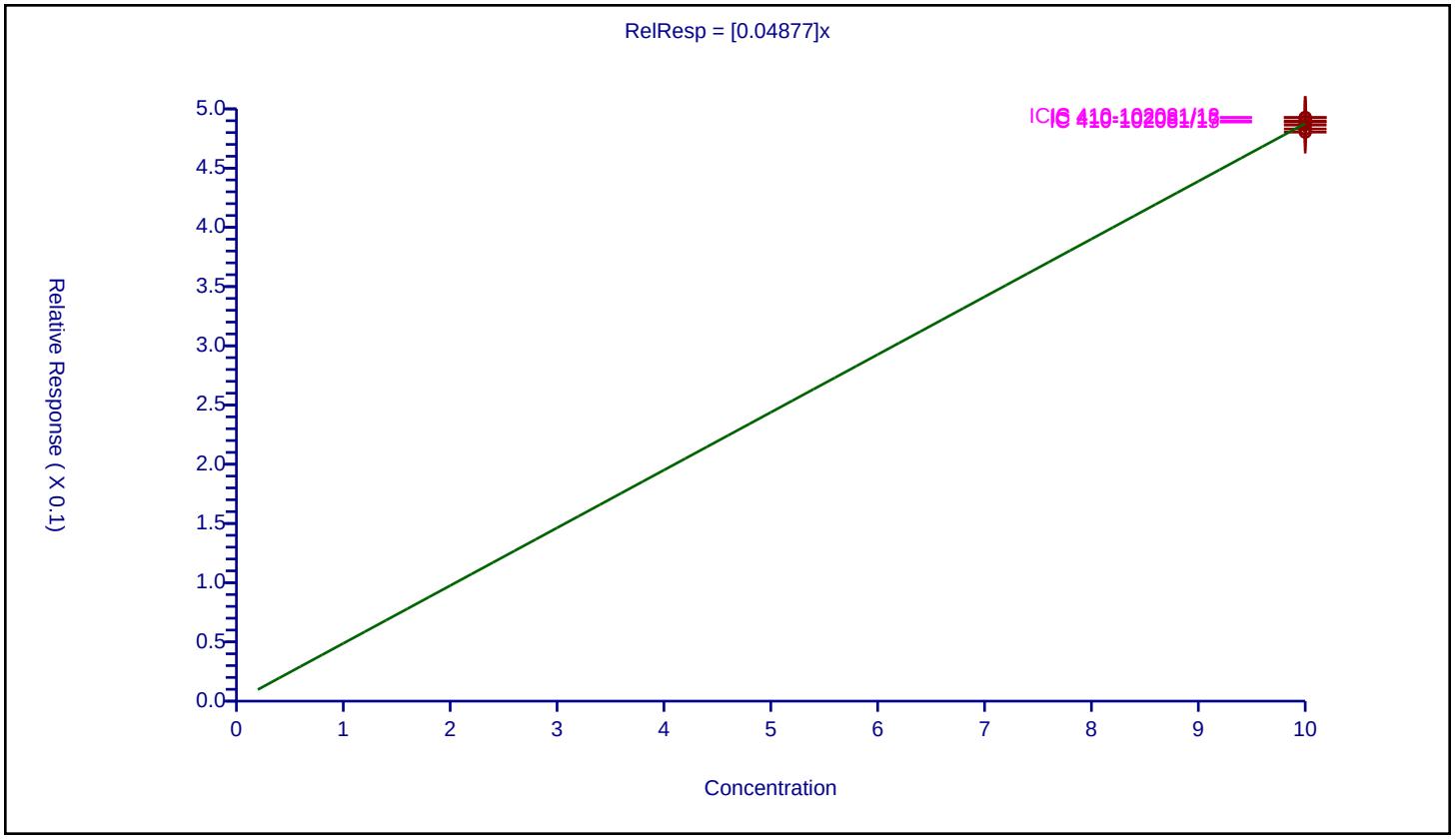
Curve Coefficients

Intercept:	0
Slope:	0.04877

Error Coefficients

Standard Error:	116000
Relative Standard Error:	1.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/12	10.0	0.480364	10.0	2252002.0	0.048036	Y
2	ICIS 410-102081/13	10.0	0.492761	10.0	2227977.0	0.049276	Y
3	IC 410-102081/14	10.0	0.483051	10.0	2225895.0	0.048305	Y
4	IC 410-102081/15	10.0	0.488861	10.0	2201773.0	0.048886	Y
5	IC 410-102081/16	10.0	0.492527	10.0	2195473.0	0.049253	Y
6	IC 410-102081/17	10.0	0.489704	10.0	2186974.0	0.04897	Y
7	IC 410-102081/18	10.0	0.486299	10.0	2149149.0	0.04863	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

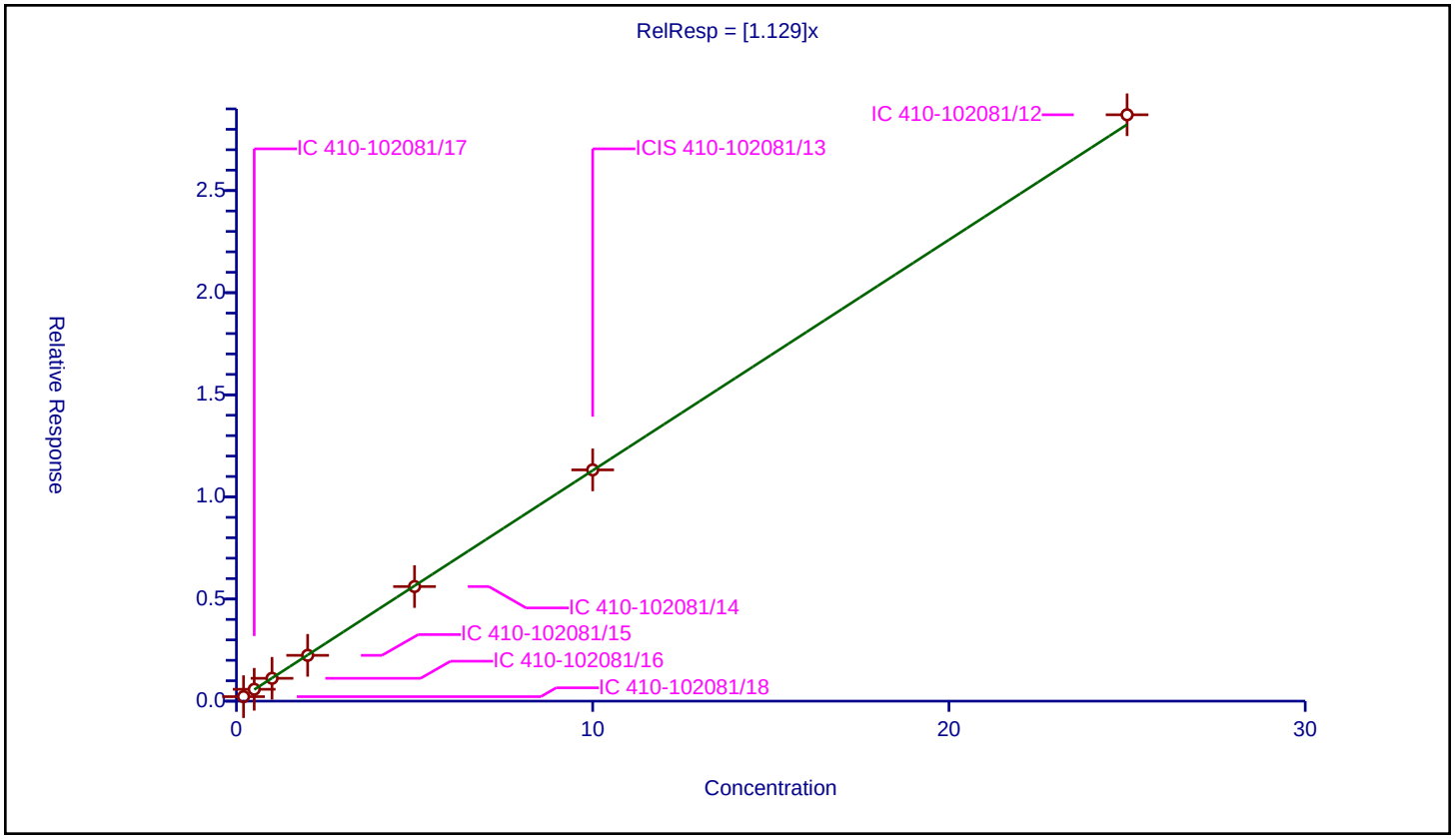
Curve Coefficients

Intercept:	0
Slope:	1.129

Error Coefficients

Standard Error:	2890000
Relative Standard Error:	1.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.22011	10.0	2149149.0	1.100552	Y
2	IC 410-102081/17	0.5	0.581466	10.0	2186974.0	1.162931	Y
3	IC 410-102081/16	1.0	1.118219	10.0	2195473.0	1.118219	Y
4	IC 410-102081/15	2.0	2.242361	10.0	2201773.0	1.121181	Y
5	IC 410-102081/14	5.0	5.610943	10.0	2225895.0	1.122189	Y
6	ICIS 410-102081/13	10.0	11.323299	10.0	2227977.0	1.13233	Y
7	IC 410-102081/12	25.0	28.712195	10.0	2252002.0	1.148488	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

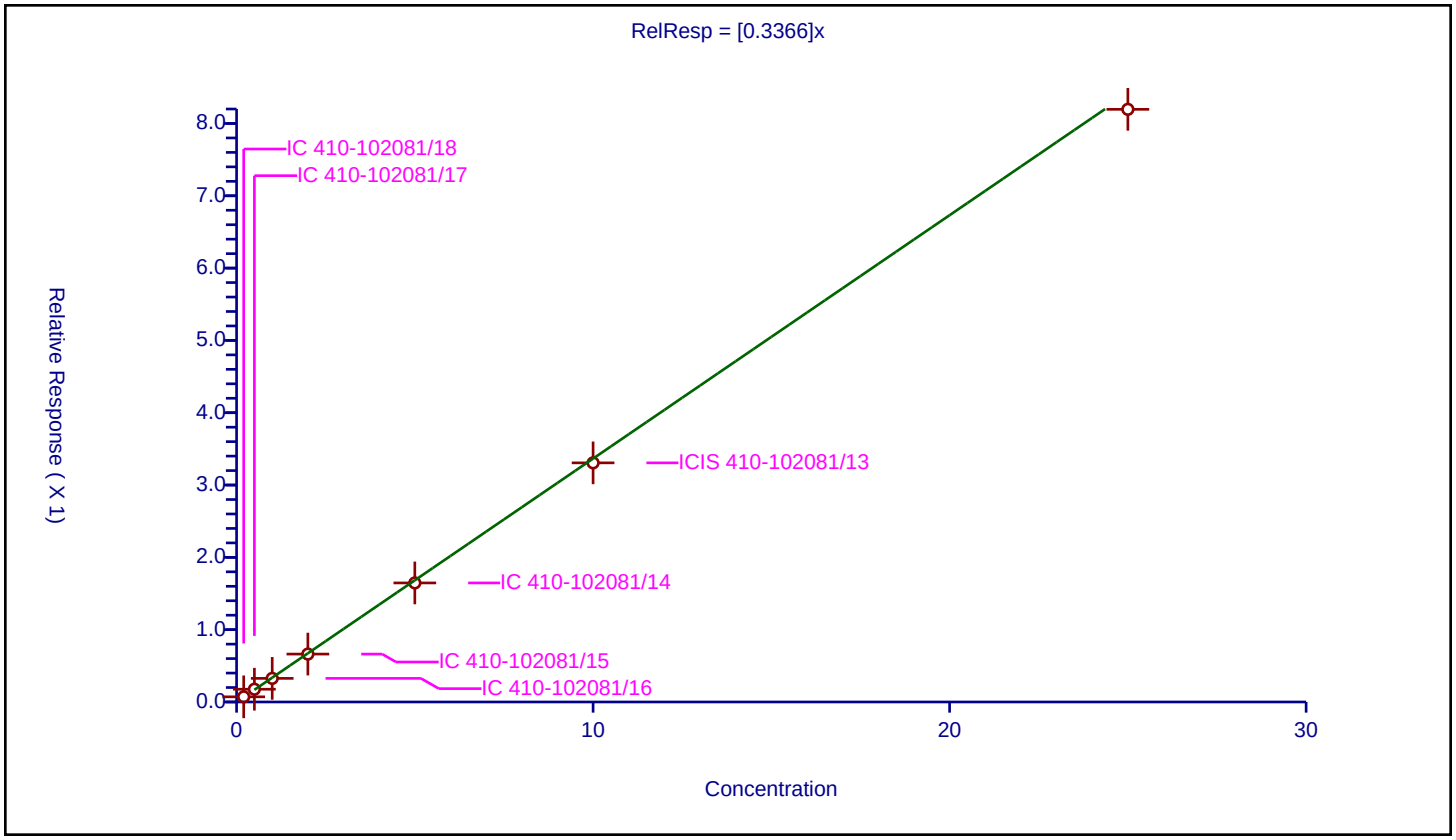
Curve Coefficients

Intercept:	0
Slope:	0.3366

Error Coefficients

Standard Error:	828000
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 410-102081/18	0.2	0.071498	10.0	2149149.0	0.35749	Y
2	IC 410-102081/17	0.5	0.176532	10.0	2186974.0	0.353063	Y
3	IC 410-102081/16	1.0	0.326431	10.0	2195473.0	0.326431	Y
4	IC 410-102081/15	2.0	0.662598	10.0	2201773.0	0.331299	Y
5	IC 410-102081/14	5.0	1.646461	10.0	2225895.0	0.329292	Y
6	ICIS 410-102081/13	10.0	3.307013	10.0	2227977.0	0.330701	Y
7	IC 410-102081/12	25.0	8.19553	10.0	2252002.0	0.327821	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

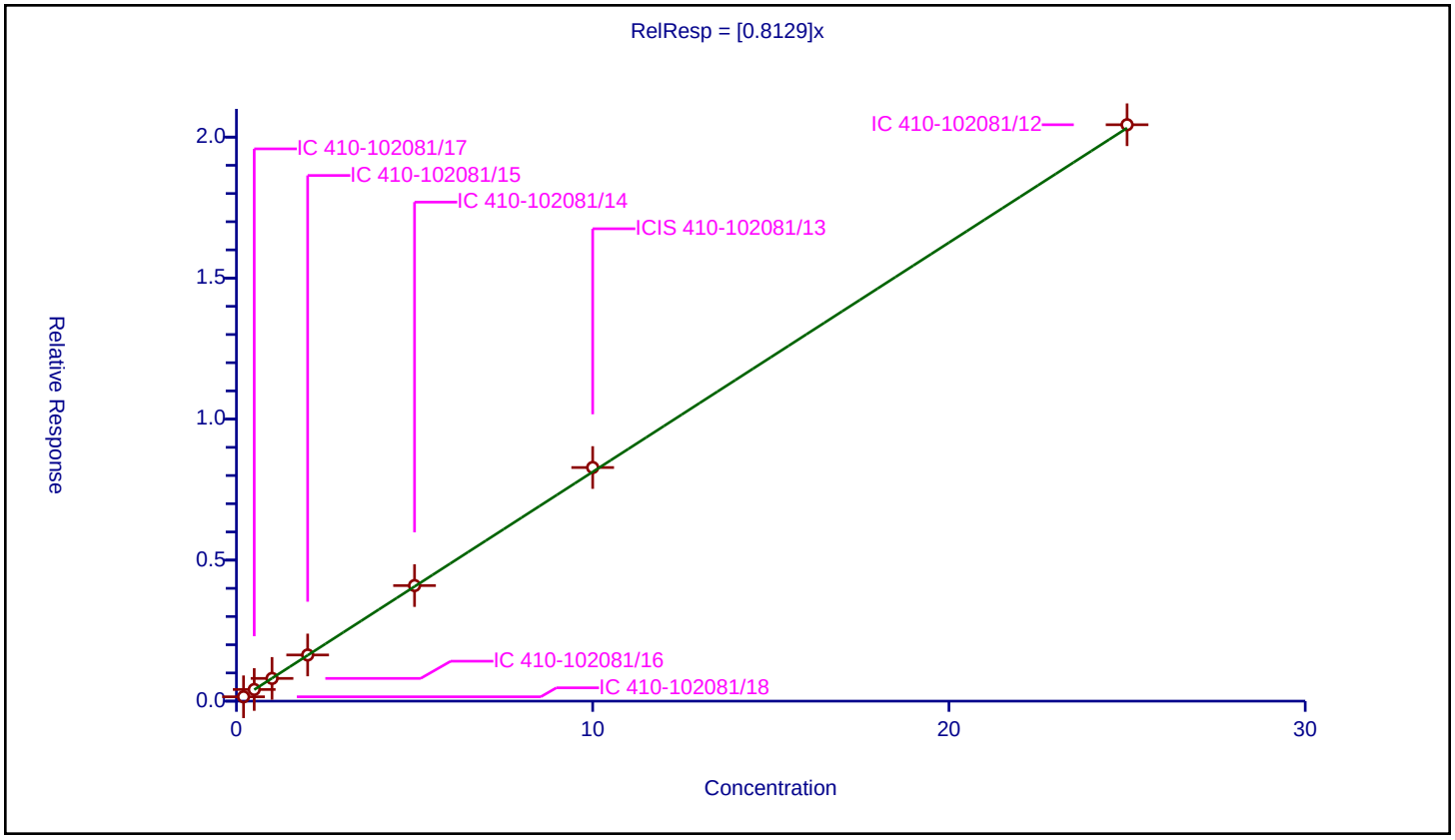
Curve Coefficients

Intercept:	0
Slope:	0.8129

Error Coefficients

Standard Error:	2070000
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 410-102081/18	0.2	0.154782	10.0	2149149.0	0.773911	Y
2	IC 410-102081/17	0.5	0.413466	10.0	2186974.0	0.826933	Y
3	IC 410-102081/16	1.0	0.805653	10.0	2195473.0	0.805653	Y
4	IC 410-102081/15	2.0	1.636686	10.0	2201773.0	0.818343	Y
5	IC 410-102081/14	5.0	4.09788	10.0	2225895.0	0.819576	Y
6	ICIS 410-102081/13	10.0	8.283945	10.0	2227977.0	0.828395	Y
7	IC 410-102081/12	25.0	20.438321	10.0	2252002.0	0.817533	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

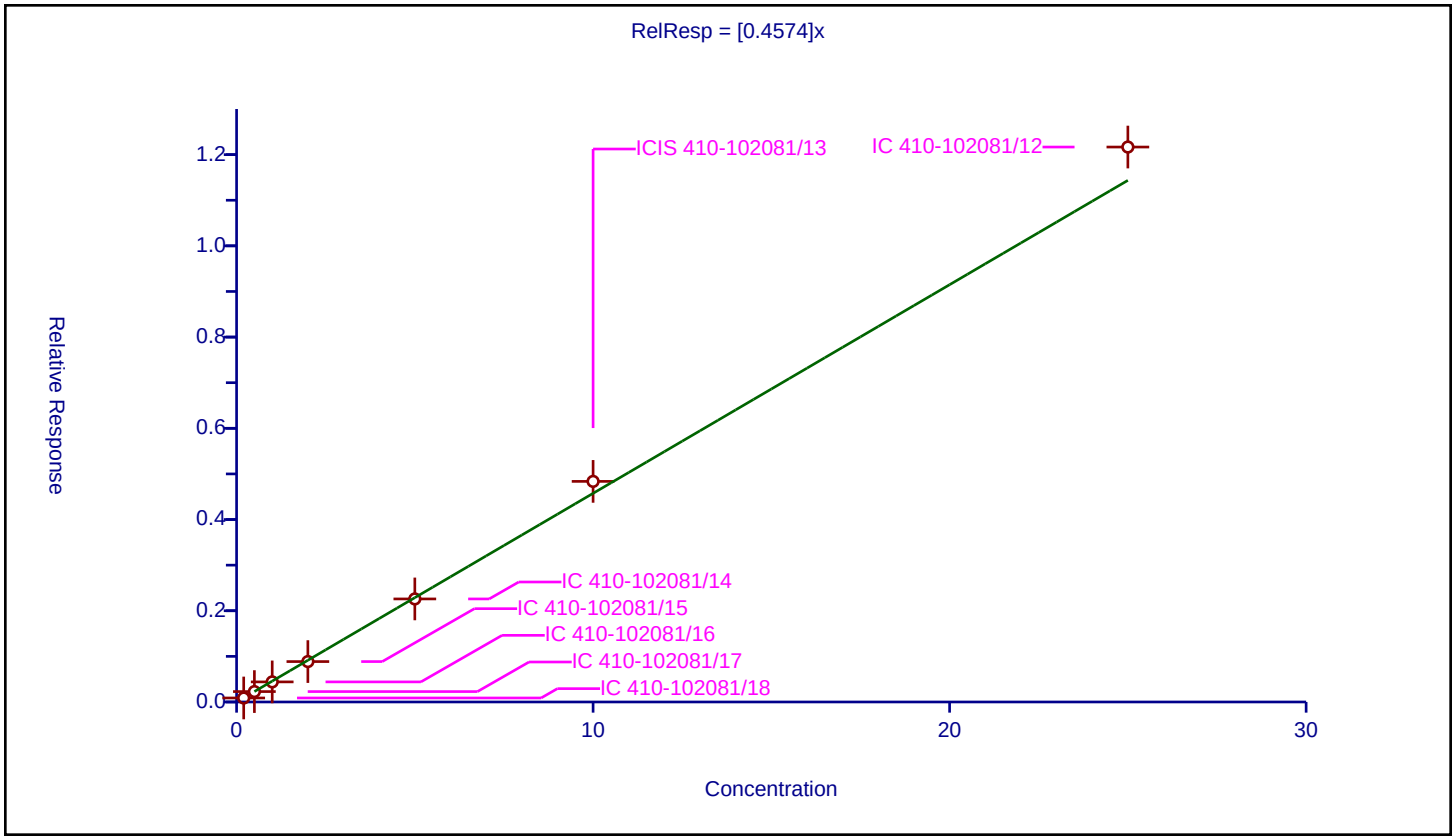
Curve Coefficients

Intercept:	0
Slope:	0.4574

Error Coefficients

Standard Error:	1220000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.087984	10.0	2149149.0	0.439918	Y
2	IC 410-102081/17	0.5	0.228087	10.0	2186974.0	0.456174	Y
3	IC 410-102081/16	1.0	0.44073	10.0	2195473.0	0.44073	Y
4	IC 410-102081/15	2.0	0.886209	10.0	2201773.0	0.443104	Y
5	IC 410-102081/14	5.0	2.259015	10.0	2225895.0	0.451803	Y
6	ICIS 410-102081/13	10.0	4.836185	10.0	2227977.0	0.483619	Y
7	IC 410-102081/12	25.0	12.166468	10.0	2252002.0	0.486659	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

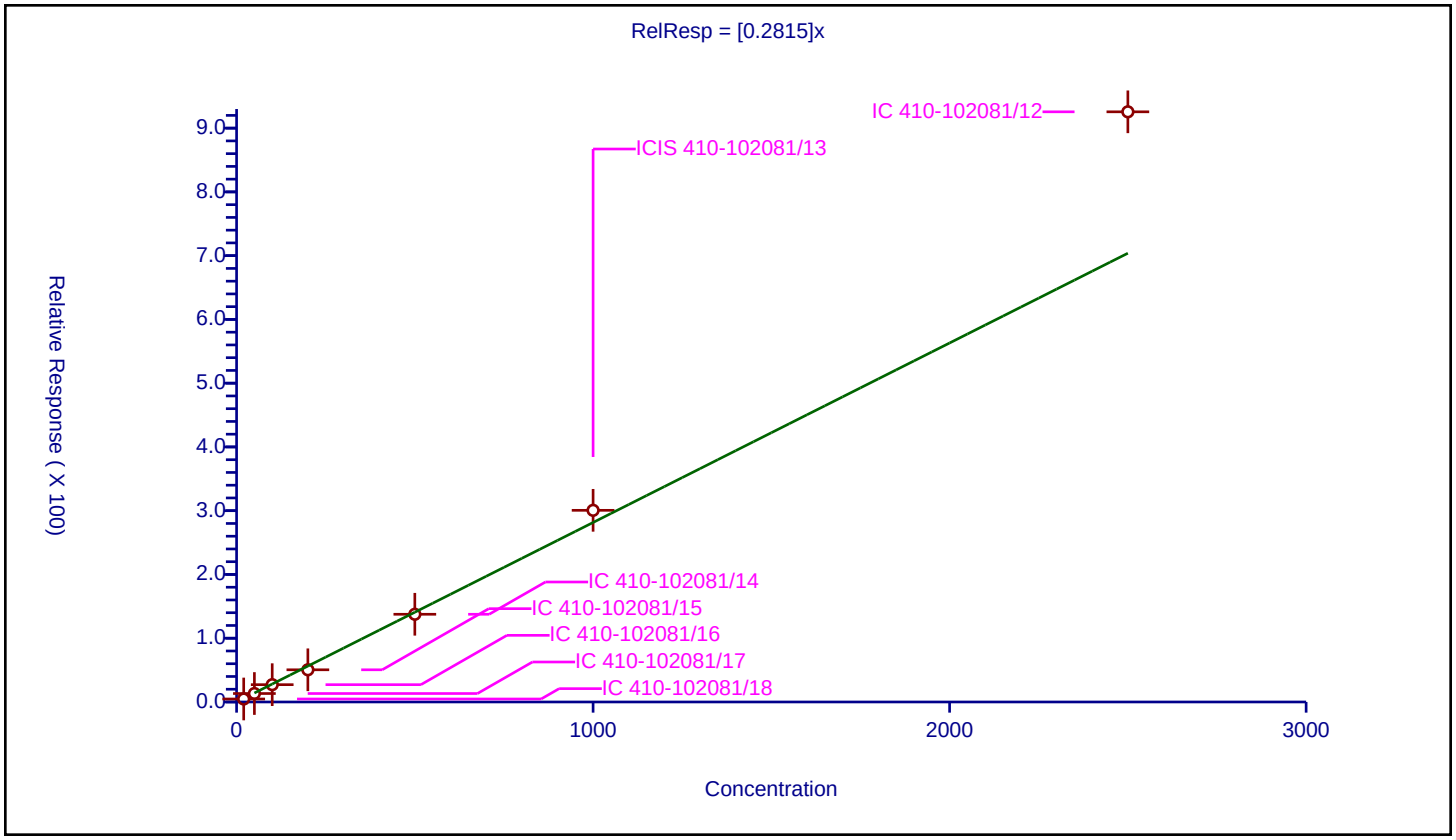
Curve Coefficients

Intercept:	0
Slope:	0.2815

Error Coefficients

Standard Error:	1290000
Relative Standard Error:	15.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	20.0	4.698992	50.0	174165.0	0.23495	Y
2	IC 410-102081/17	50.0	13.285346	50.0	171087.0	0.265707	Y
3	IC 410-102081/16	100.0	27.16207	50.0	165663.0	0.271621	Y
4	IC 410-102081/15	200.0	50.48776	50.0	173036.0	0.252439	Y
5	IC 410-102081/14	500.0	137.578509	50.0	171477.0	0.275157	Y
6	ICIS 410-102081/13	1000.0	300.596146	50.0	195338.0	0.300596	Y
7	IC 410-102081/12	2500.0	925.607742	50.0	155617.0	0.370243	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

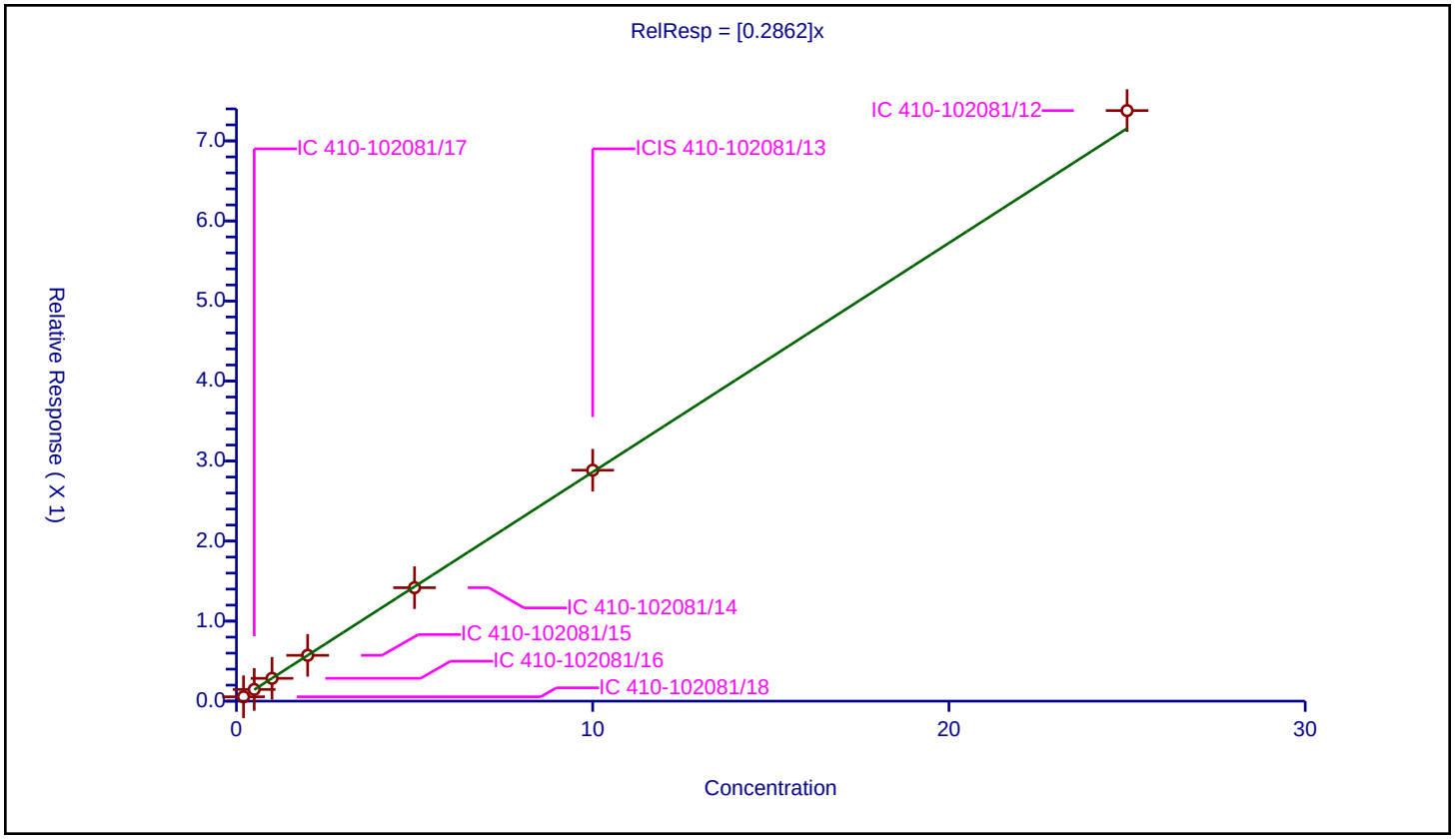
Curve Coefficients

Intercept:	0
Slope:	0.2862

Error Coefficients

Standard Error:	741000
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 410-102081/18	0.2	0.054538	10.0	2149149.0	0.272689	Y
2	IC 410-102081/17	0.5	0.146275	10.0	2186974.0	0.29255	Y
3	IC 410-102081/16	1.0	0.285182	10.0	2195473.0	0.285182	Y
4	IC 410-102081/15	2.0	0.57218	10.0	2201773.0	0.28609	Y
5	IC 410-102081/14	5.0	1.417452	10.0	2225895.0	0.28349	Y
6	ICIS 410-102081/13	10.0	2.885093	10.0	2227977.0	0.288509	Y
7	IC 410-102081/12	25.0	7.378568	10.0	2252002.0	0.295143	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

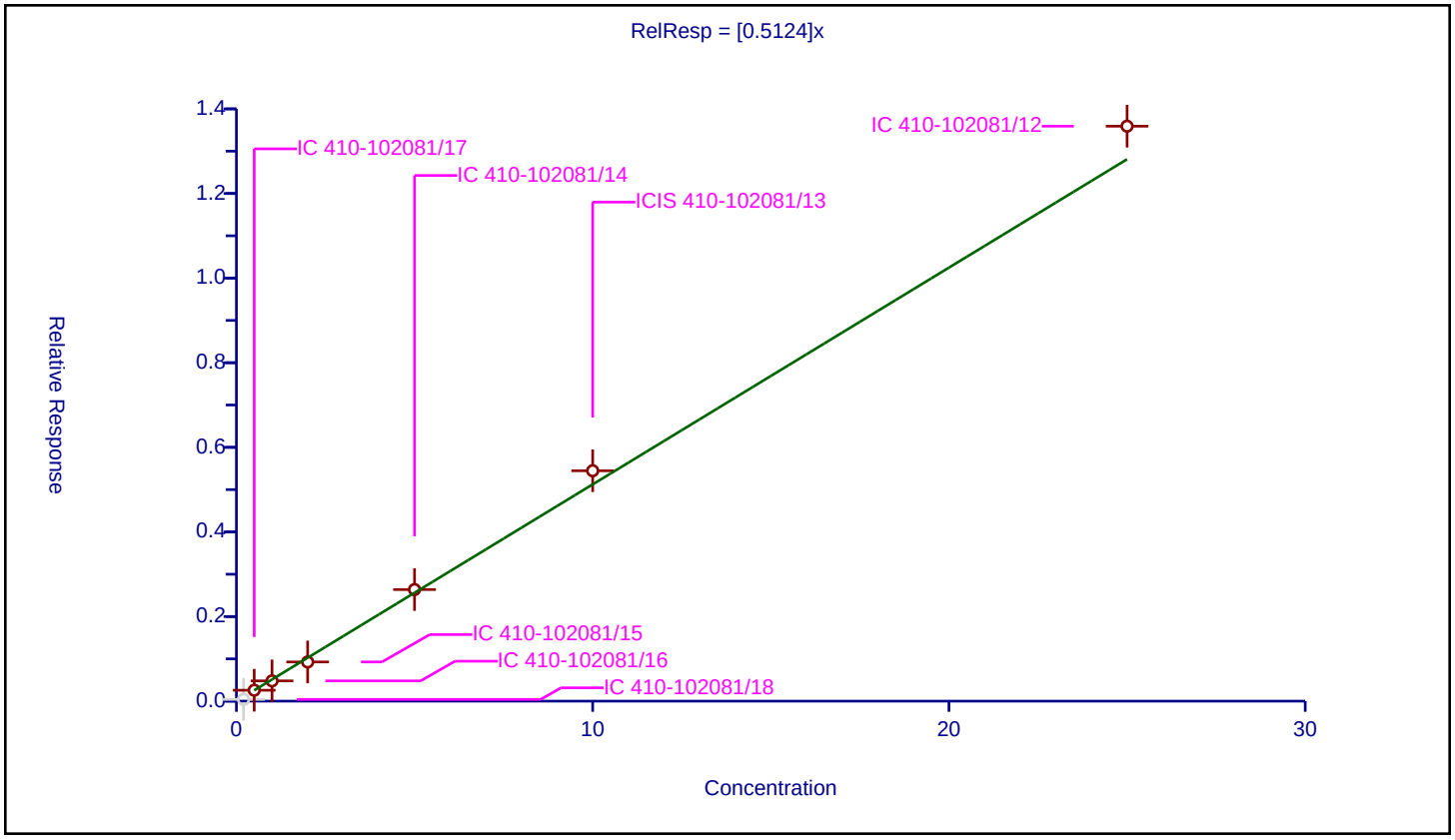
Curve Coefficients

Intercept:	0
Slope:	0.5124

Error Coefficients

Standard Error:	1500000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.041072	10.0	2149149.0	0.20536	N
2	IC 410-102081/17	0.5	0.258051	10.0	2186974.0	0.516101	Y
3	IC 410-102081/16	1.0	0.479095	10.0	2195473.0	0.479095	Y
4	IC 410-102081/15	2.0	0.926408	10.0	2201773.0	0.463204	Y
5	IC 410-102081/14	5.0	2.637806	10.0	2225895.0	0.527561	Y
6	ICIS 410-102081/13	10.0	5.446322	10.0	2227977.0	0.544632	Y
7	IC 410-102081/12	25.0	13.590694	10.0	2252002.0	0.543628	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

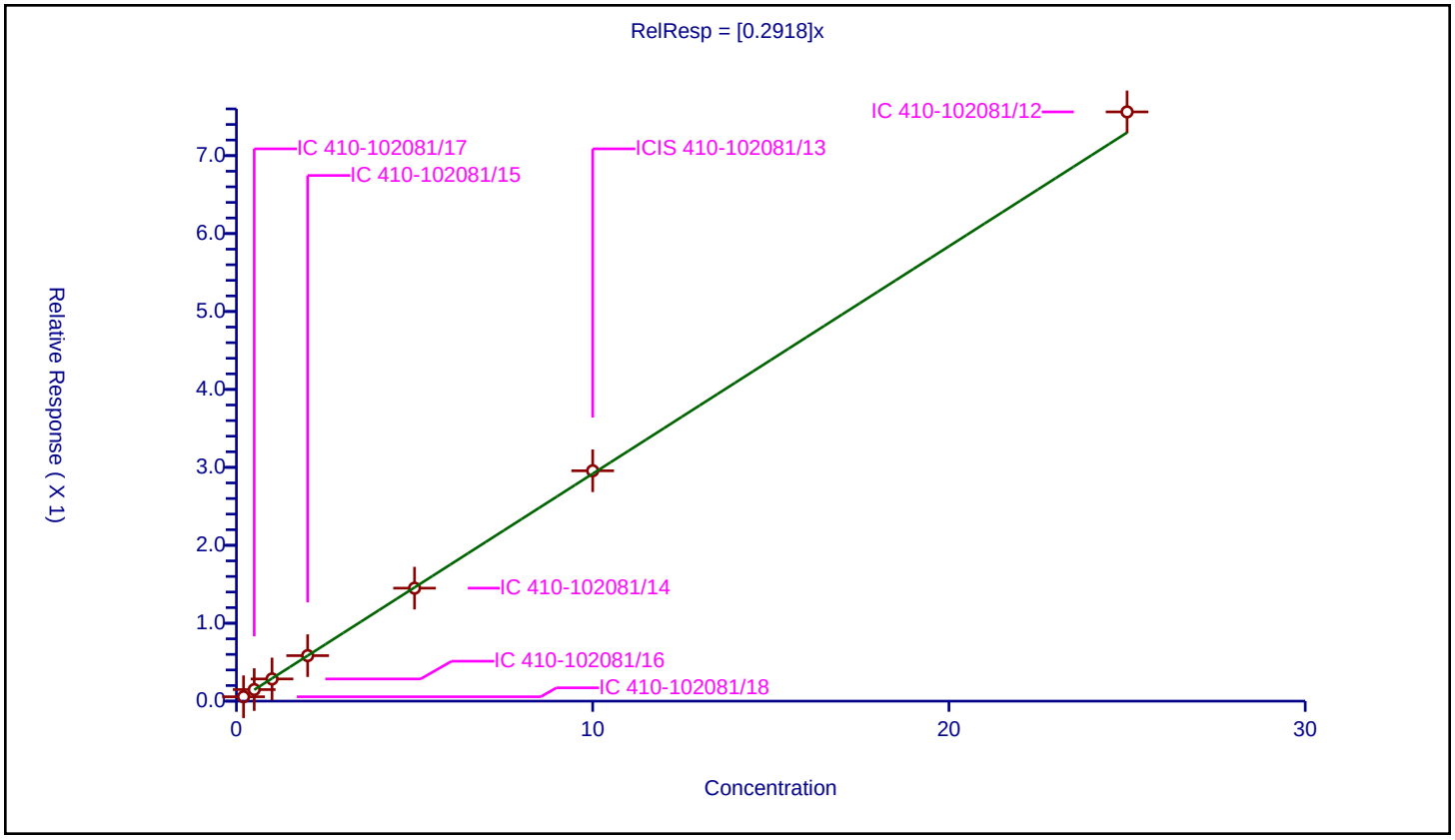
Curve Coefficients

Intercept:	0
Slope:	0.2918

Error Coefficients

Standard Error:	759000
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 410-102081/18	0.2	0.056162	10.0	2149149.0	0.280809	Y
2	IC 410-102081/17	0.5	0.148493	10.0	2186974.0	0.296986	Y
3	IC 410-102081/16	1.0	0.285014	10.0	2195473.0	0.285014	Y
4	IC 410-102081/15	2.0	0.584066	10.0	2201773.0	0.292033	Y
5	IC 410-102081/14	5.0	1.449875	10.0	2225895.0	0.289975	Y
6	ICIS 410-102081/13	10.0	2.956157	10.0	2227977.0	0.295616	Y
7	IC 410-102081/12	25.0	7.561294	10.0	2252002.0	0.302452	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

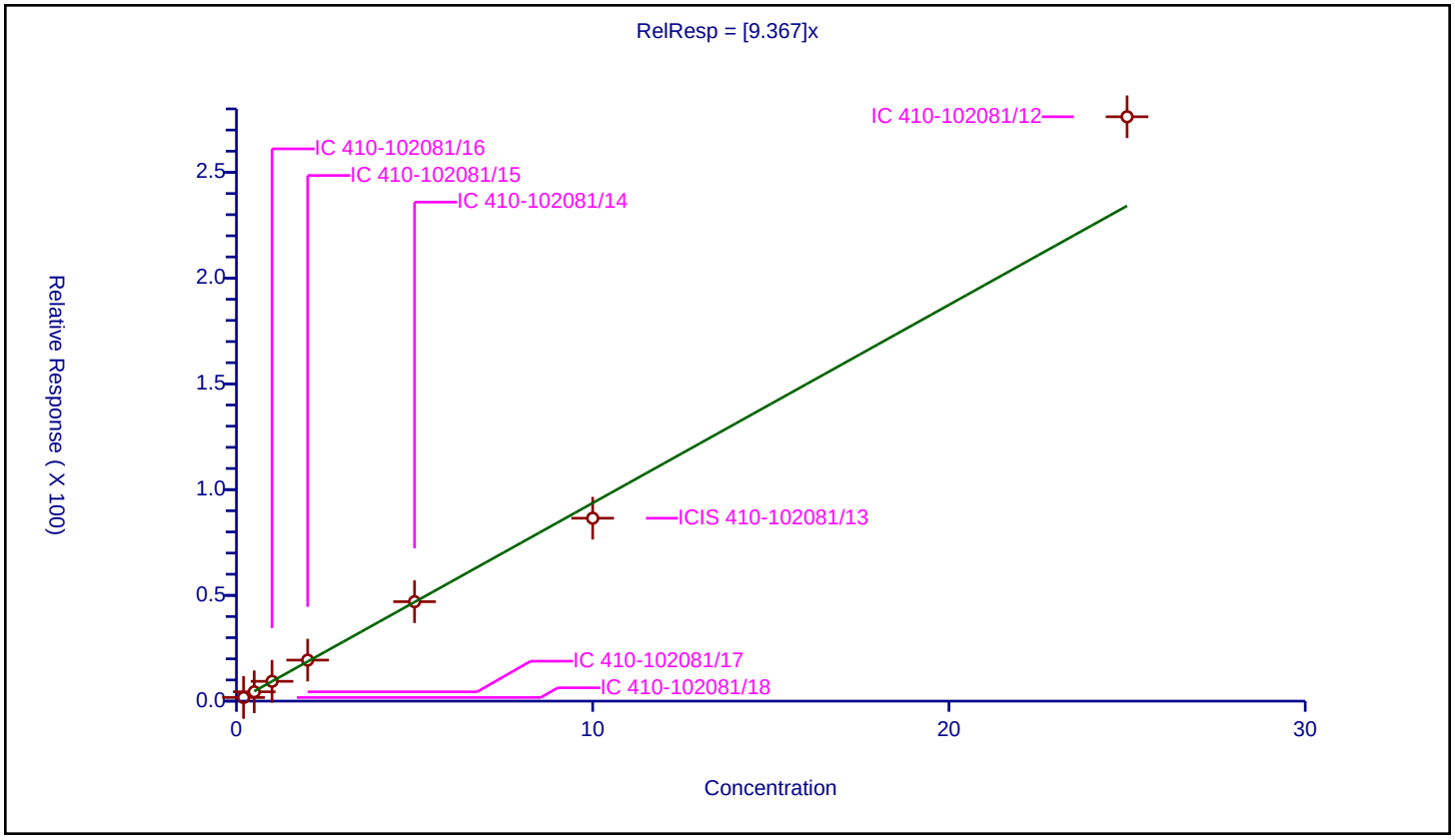
Curve Coefficients

Intercept:	0
Slope:	9.367

Error Coefficients

Standard Error:	384000
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 410-102081/18	0.2	1.713318	50.0	174165.0	8.566589	Y
2	IC 410-102081/17	0.5	4.412667	50.0	171087.0	8.825334	Y
3	IC 410-102081/16	1.0	9.37234	50.0	165663.0	9.37234	Y
4	IC 410-102081/15	2.0	19.391629	50.0	173036.0	9.695815	Y
5	IC 410-102081/14	5.0	47.029922	50.0	171477.0	9.405984	Y
6	ICIS 410-102081/13	10.0	86.493411	50.0	195338.0	8.649341	Y
7	IC 410-102081/12	25.0	276.286974	50.0	155617.0	11.051479	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

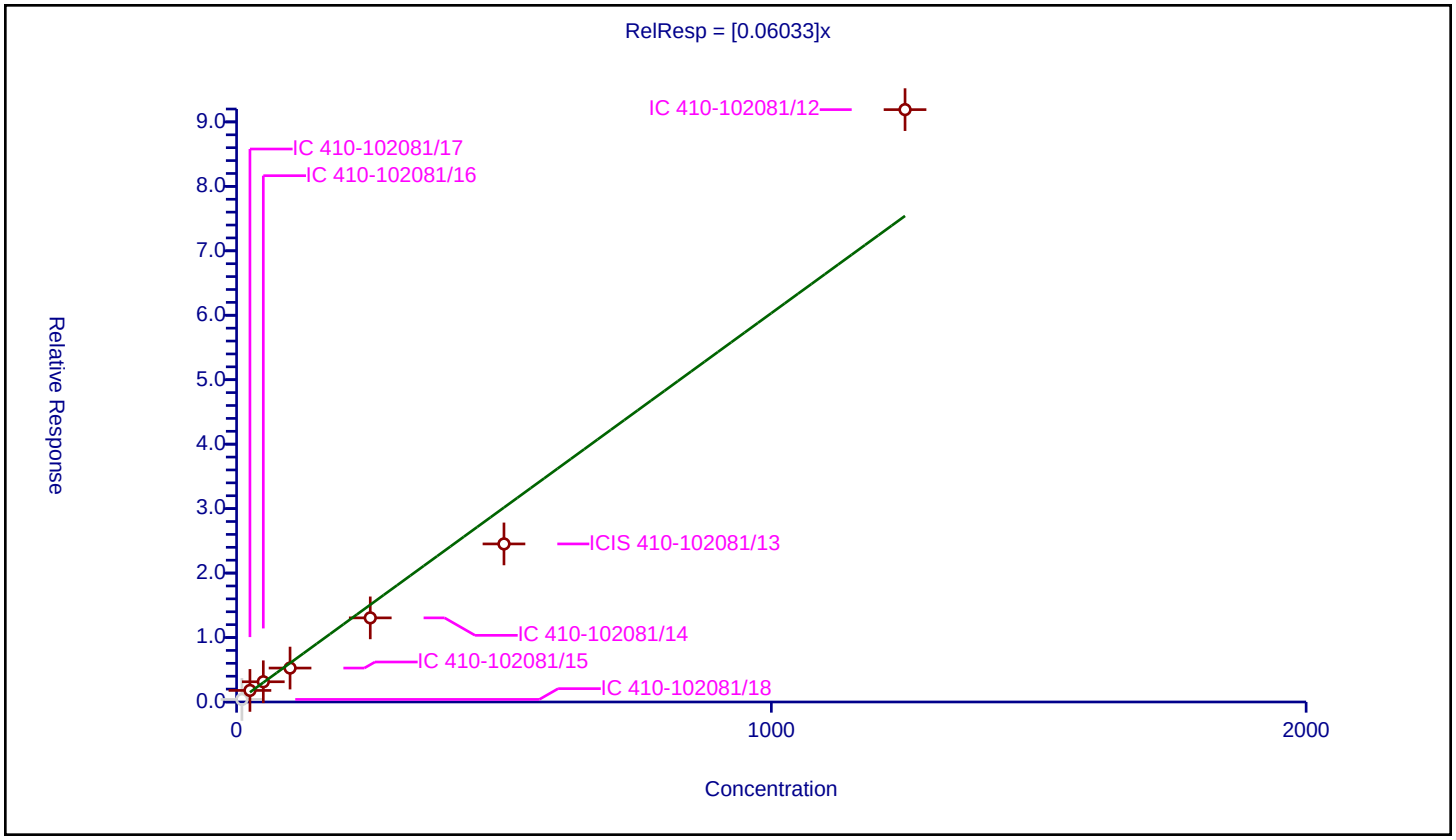
Curve Coefficients

Intercept:	0
Slope:	0.06033

Error Coefficients

Standard Error:	137000
Relative Standard Error:	17.6
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.946

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	10.0	0.397324	50.0	174165.0	0.039732	N
2	IC 410-102081/17	25.0	1.794701	50.0	171087.0	0.071788	Y
3	IC 410-102081/16	50.0	3.139506	50.0	165663.0	0.06279	Y
4	IC 410-102081/15	100.0	5.263645	50.0	173036.0	0.052636	Y
5	IC 410-102081/14	250.0	13.05073	50.0	171477.0	0.052203	Y
6	ICIS 410-102081/13	500.0	24.524926	50.0	195338.0	0.04905	Y
7	IC 410-102081/12	1250.0	91.90609	50.0	155617.0	0.073525	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

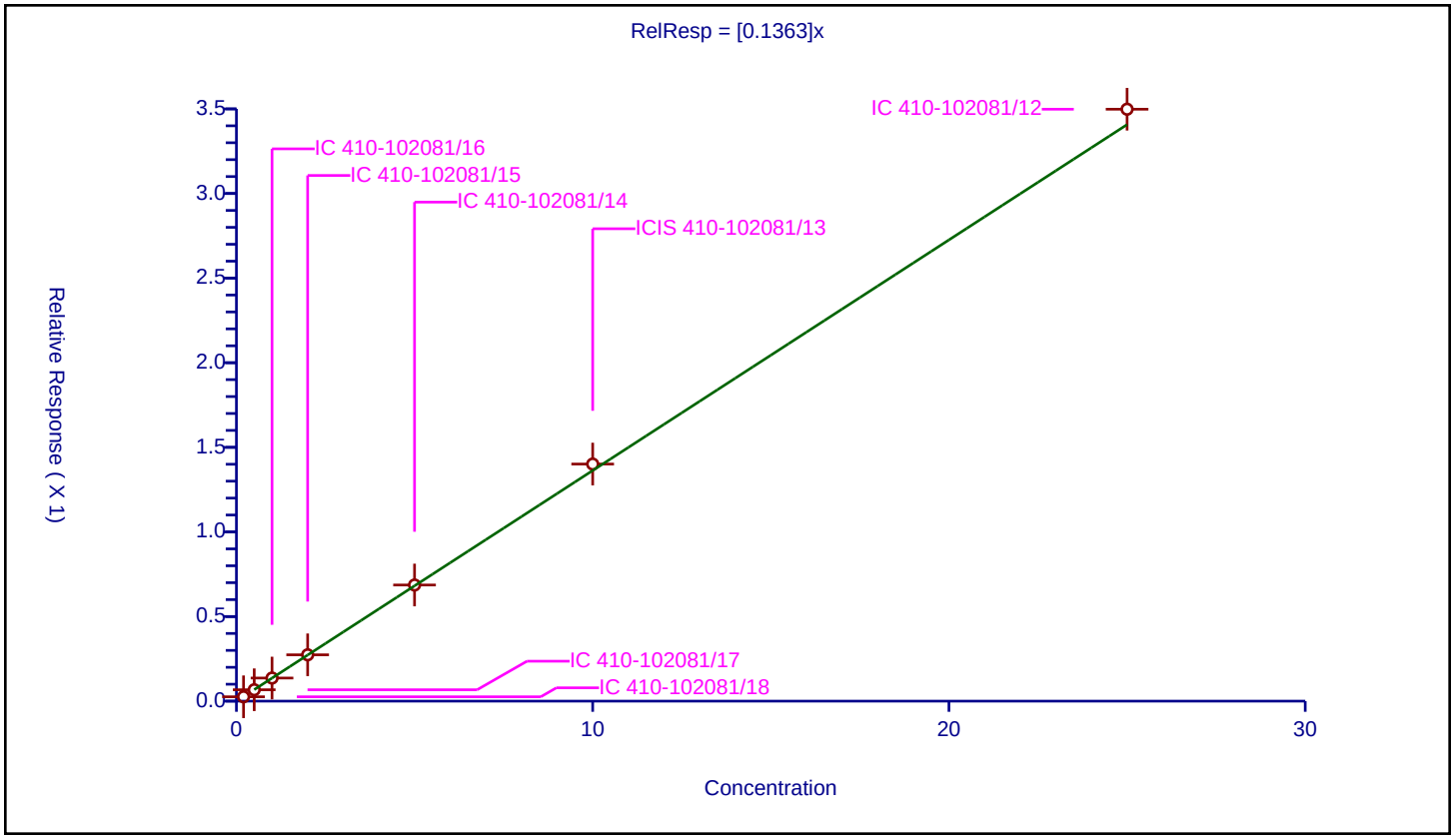
Curve Coefficients

Intercept:	0
Slope:	0.1363

Error Coefficients

Standard Error:	353000
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 410-102081/18	0.2	0.025745	10.0	2149149.0	0.128725	Y
2	IC 410-102081/17	0.5	0.067225	10.0	2186974.0	0.134451	Y
3	IC 410-102081/16	1.0	0.136617	10.0	2195473.0	0.136617	Y
4	IC 410-102081/15	2.0	0.273802	10.0	2201773.0	0.136901	Y
5	IC 410-102081/14	5.0	0.68638	10.0	2225895.0	0.137276	Y
6	ICIS 410-102081/13	10.0	1.401092	10.0	2227977.0	0.140109	Y
7	IC 410-102081/12	25.0	3.498061	10.0	2252002.0	0.139922	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

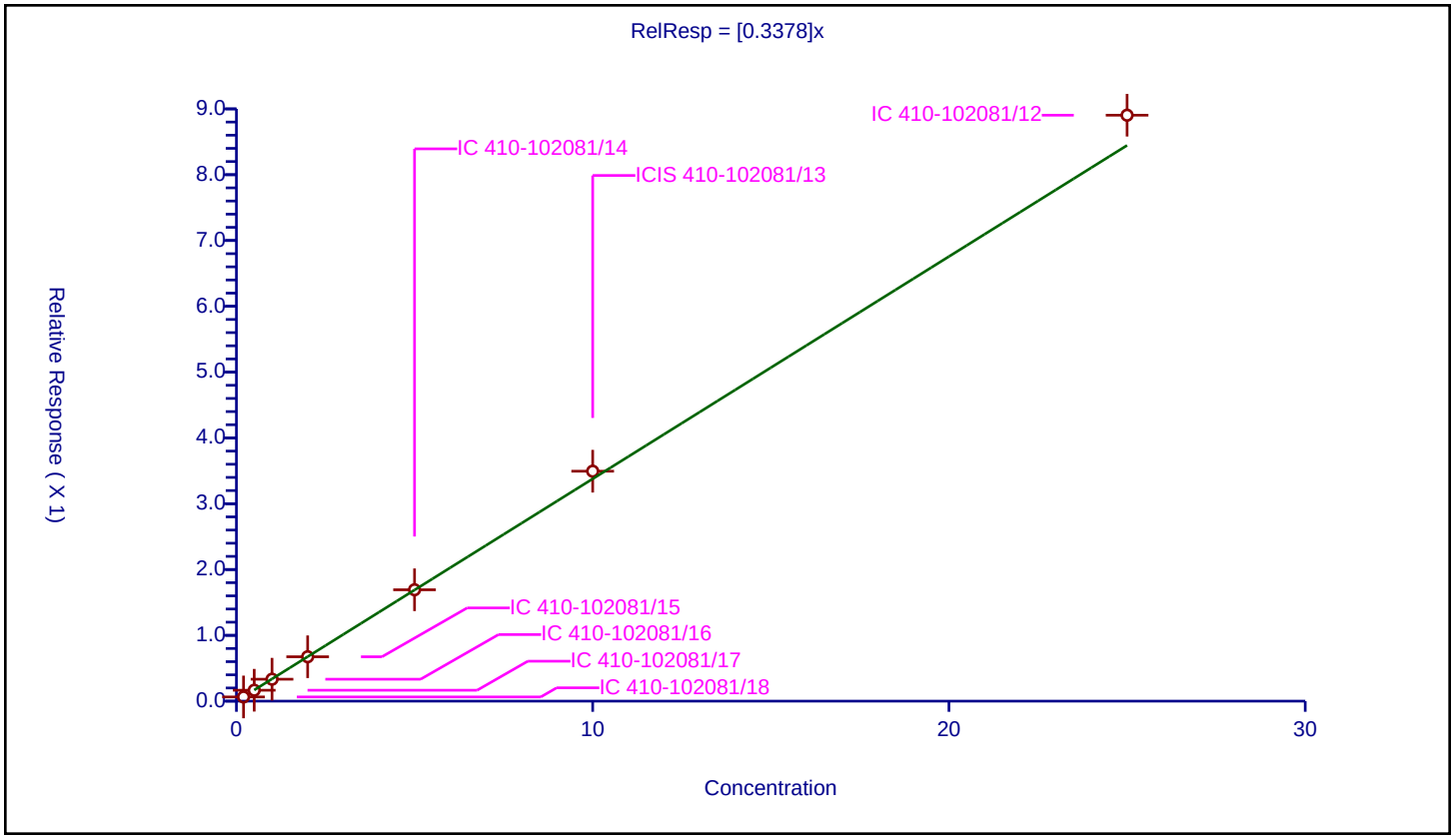
Curve Coefficients

Intercept:	0
Slope:	0.3378

Error Coefficients

Standard Error:	894000
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 410-102081/18	0.2	0.063746	10.0	2149149.0	0.318731	Y
2	IC 410-102081/17	0.5	0.165731	10.0	2186974.0	0.331463	Y
3	IC 410-102081/16	1.0	0.333199	10.0	2195473.0	0.333199	Y
4	IC 410-102081/15	2.0	0.67462	10.0	2201773.0	0.33731	Y
5	IC 410-102081/14	5.0	1.692492	10.0	2225895.0	0.338498	Y
6	ICIS 410-102081/13	10.0	3.494269	10.0	2227977.0	0.349427	Y
7	IC 410-102081/12	25.0	8.903882	10.0	2252002.0	0.356155	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

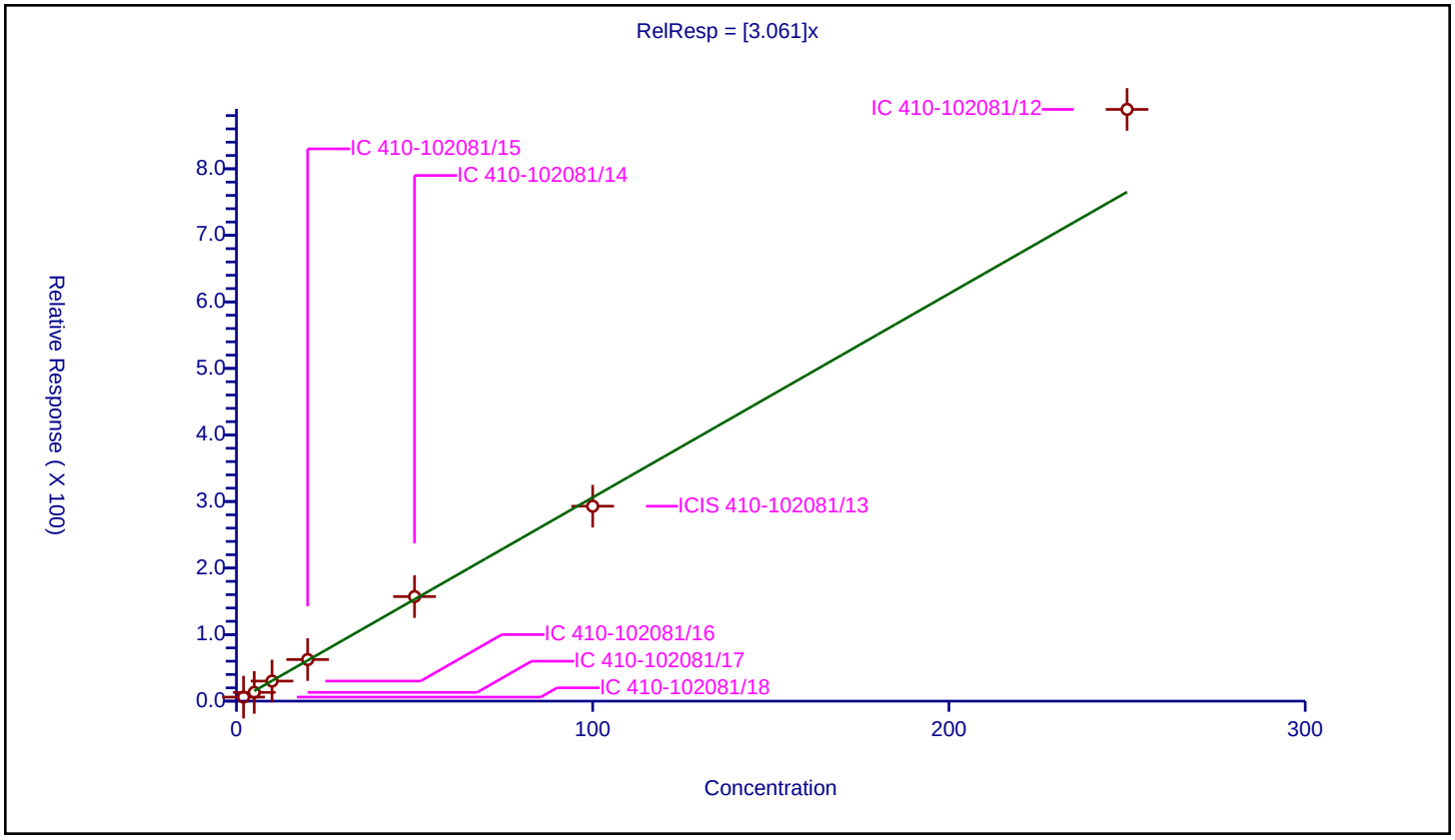
Curve Coefficients

Intercept:	0
Slope:	3.061

Error Coefficients

Standard Error:	1250000
Relative Standard Error:	9.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	2.0	6.045417	50.0	174165.0	3.022708	Y
2	IC 410-102081/17	5.0	13.166693	50.0	171087.0	2.633339	Y
3	IC 410-102081/16	10.0	30.167871	50.0	165663.0	3.016787	Y
4	IC 410-102081/15	20.0	62.485263	50.0	173036.0	3.124263	Y
5	IC 410-102081/14	50.0	157.108534	50.0	171477.0	3.142171	Y
6	ICIS 410-102081/13	100.0	292.956568	50.0	195338.0	2.929566	Y
7	IC 410-102081/12	250.0	889.243142	50.0	155617.0	3.556973	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

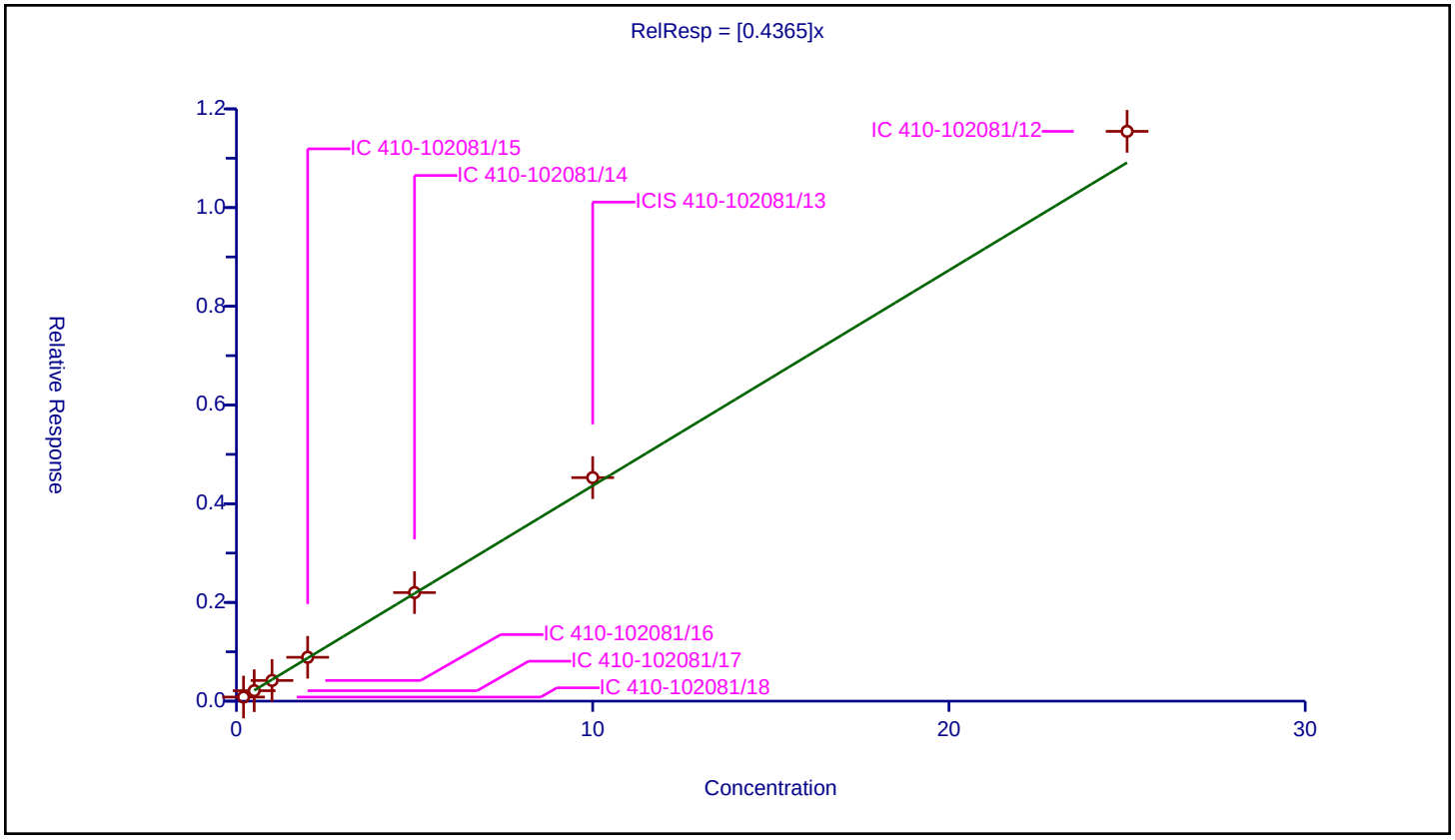
Curve Coefficients

Intercept:	0
Slope:	0.4365

Error Coefficients

Standard Error:	1160000
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 410-102081/18	0.2	0.082763	10.0	2149149.0	0.413815	Y
2	IC 410-102081/17	0.5	0.211928	10.0	2186974.0	0.423855	Y
3	IC 410-102081/16	1.0	0.418789	10.0	2195473.0	0.418789	Y
4	IC 410-102081/15	2.0	0.888425	10.0	2201773.0	0.444212	Y
5	IC 410-102081/14	5.0	2.199785	10.0	2225895.0	0.439957	Y
6	ICIS 410-102081/13	10.0	4.529185	10.0	2227977.0	0.452918	Y
7	IC 410-102081/12	25.0	11.544799	10.0	2252002.0	0.461792	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

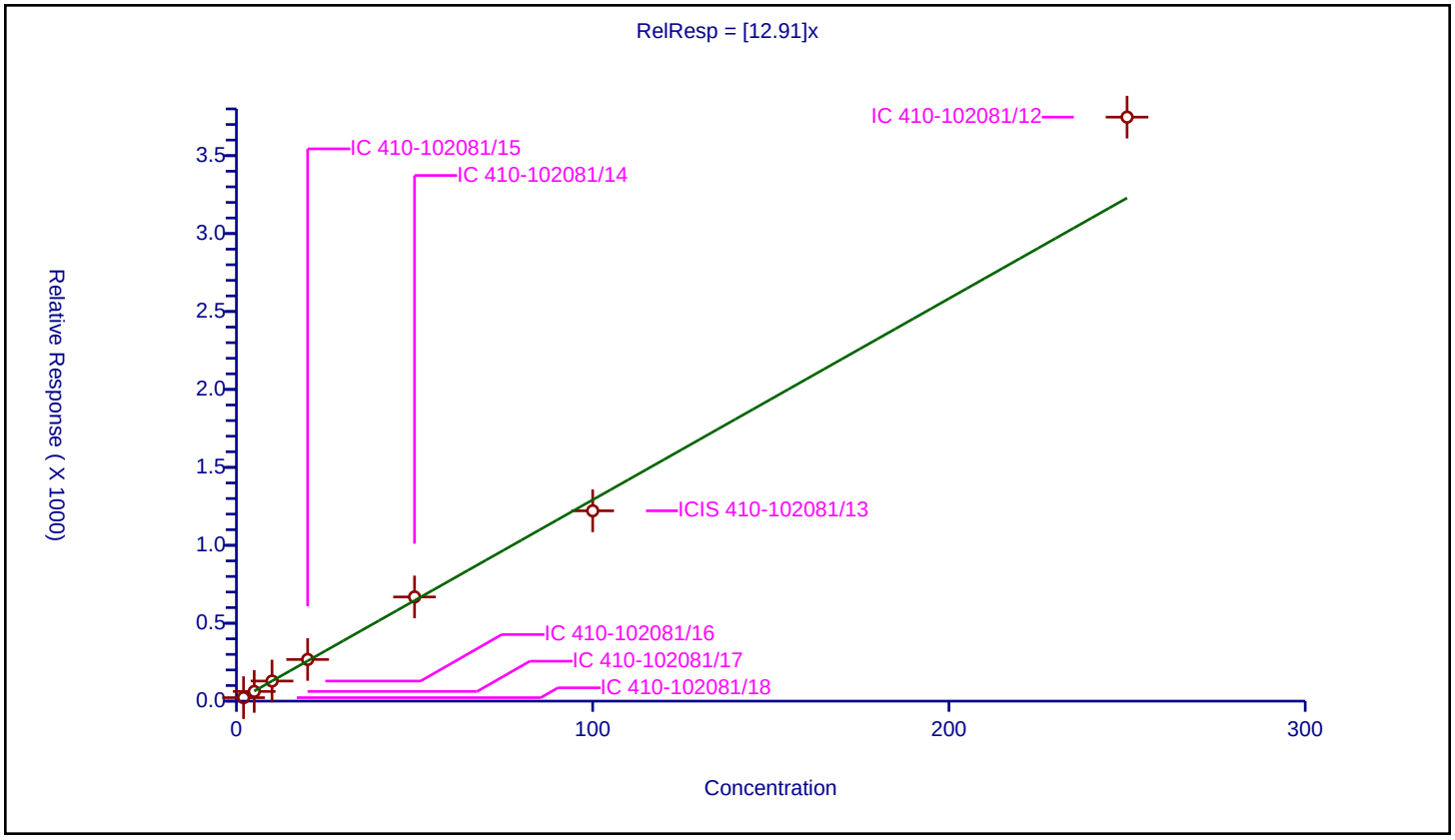
Curve Coefficients

Intercept:	0
Slope:	12.91

Error Coefficients

Standard Error:	5240000
Relative Standard Error:	9.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	2.0	22.2516	50.0	174165.0	11.1258	Y
2	IC 410-102081/17	5.0	62.245816	50.0	171087.0	12.449163	Y
3	IC 410-102081/16	10.0	128.896615	50.0	165663.0	12.889662	Y
4	IC 410-102081/15	20.0	267.34928	50.0	173036.0	13.367464	Y
5	IC 410-102081/14	50.0	668.358147	50.0	171477.0	13.367163	Y
6	ICIS 410-102081/13	100.0	1221.320736	50.0	195338.0	12.213207	Y
7	IC 410-102081/12	250.0	3747.132383	50.0	155617.0	14.98853	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

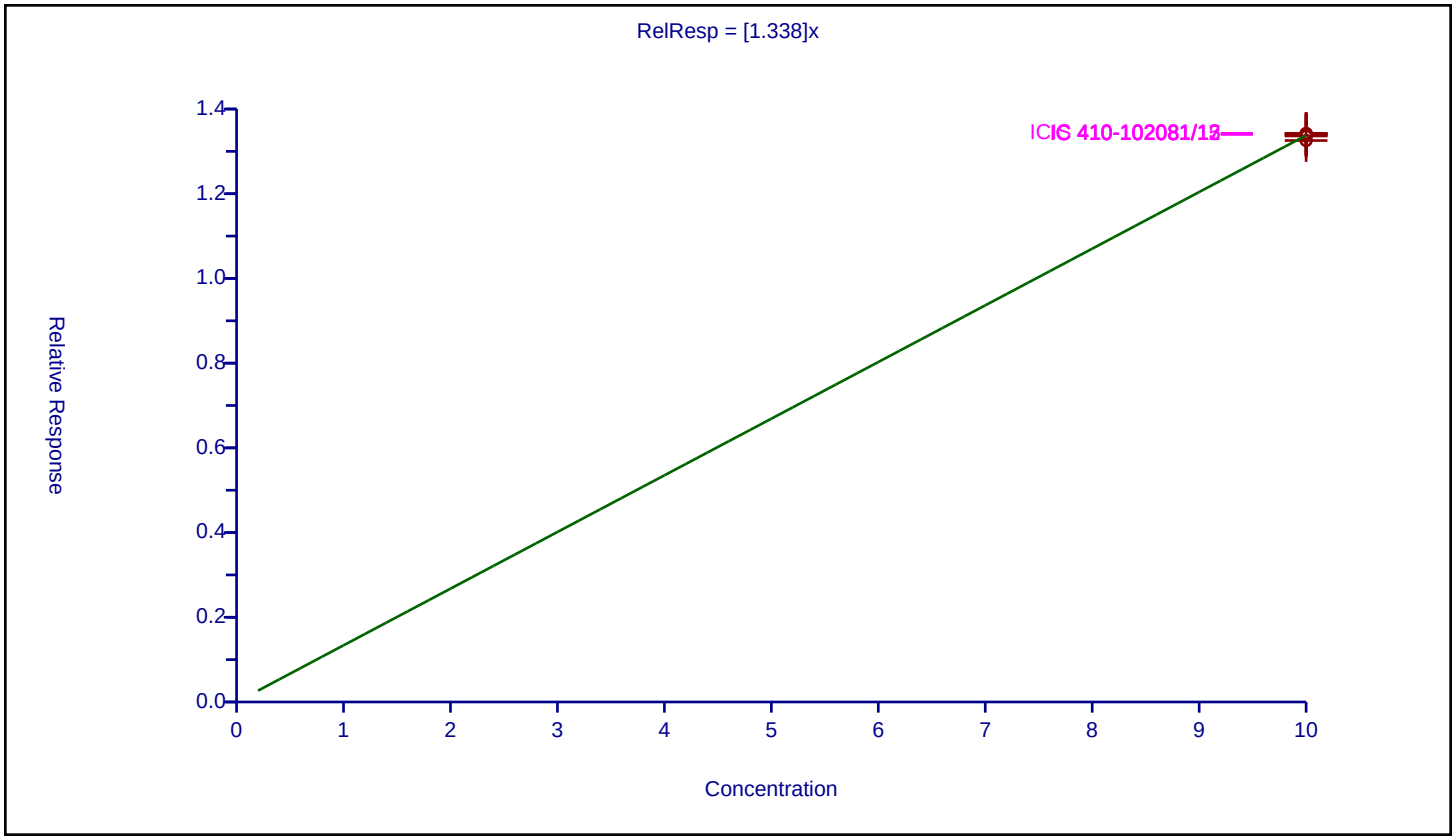
Curve Coefficients

Intercept:	0
Slope:	1.338

Error Coefficients

Standard Error:	2350000
Relative Standard Error:	0.4
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/12	10.0	13.415011	10.0	1650800.0	1.341501	Y
2	ICIS 410-102081/13	10.0	13.42376	10.0	1638044.0	1.342376	Y
3	IC 410-102081/14	10.0	13.371223	10.0	1639832.0	1.337122	Y
4	IC 410-102081/15	10.0	13.406207	10.0	1624493.0	1.340621	Y
5	IC 410-102081/16	10.0	13.256045	10.0	1619173.0	1.325604	Y
6	IC 410-102081/17	10.0	13.407224	10.0	1612013.0	1.340722	Y
7	IC 410-102081/18	10.0	13.363332	10.0	1589174.0	1.336333	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

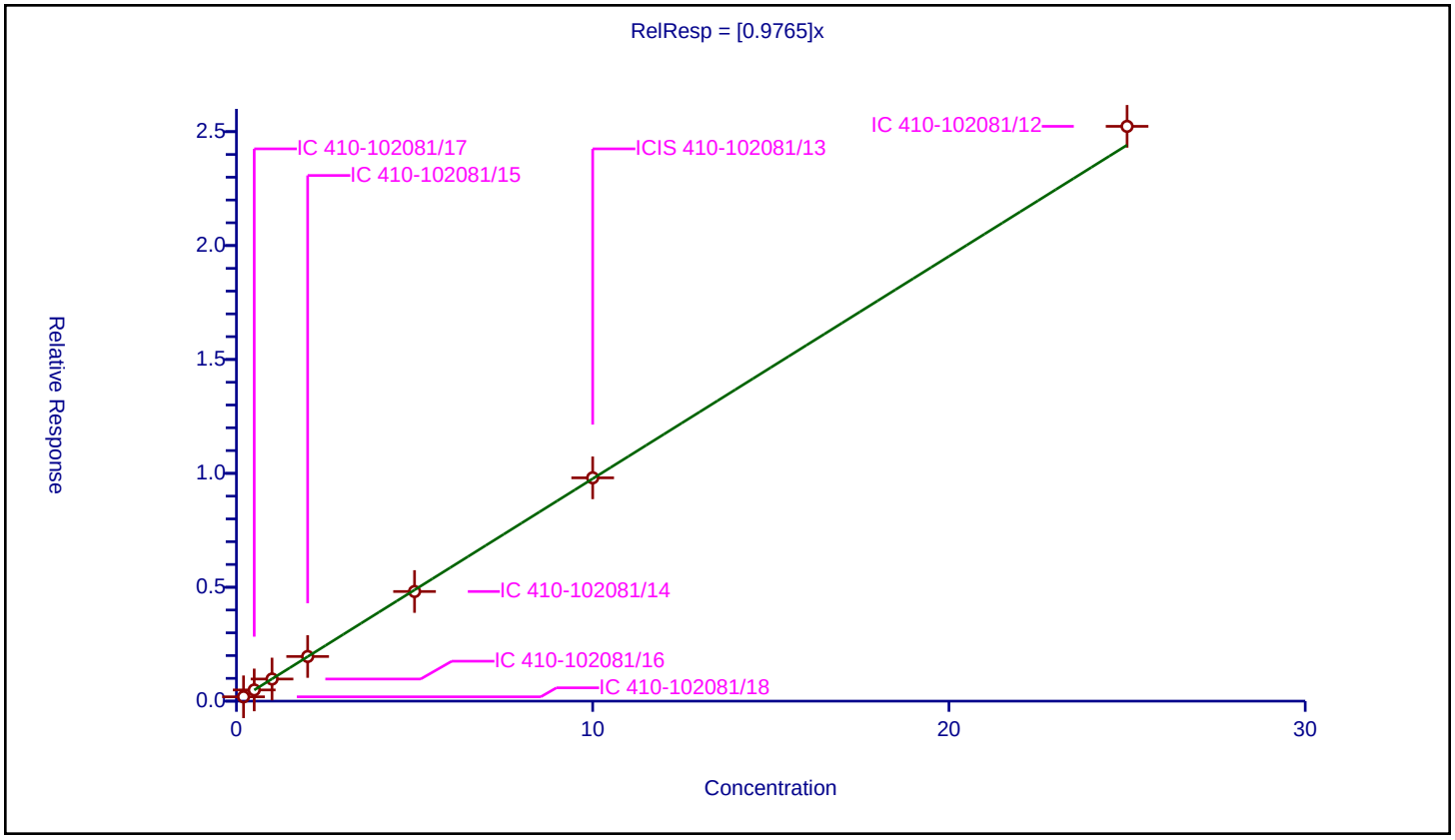
Curve Coefficients

Intercept:	0
Slope:	0.9765

Error Coefficients

Standard Error:	1860000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.189658	10.0	1589174.0	0.948291	Y
2	IC 410-102081/17	0.5	0.491851	10.0	1612013.0	0.983702	Y
3	IC 410-102081/16	1.0	0.970798	10.0	1619173.0	0.970798	Y
4	IC 410-102081/15	2.0	1.960464	10.0	1624493.0	0.980232	Y
5	IC 410-102081/14	5.0	4.813487	10.0	1639832.0	0.962697	Y
6	ICIS 410-102081/13	10.0	9.803992	10.0	1638044.0	0.980399	Y
7	IC 410-102081/12	25.0	25.233553	10.0	1650800.0	1.009342	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

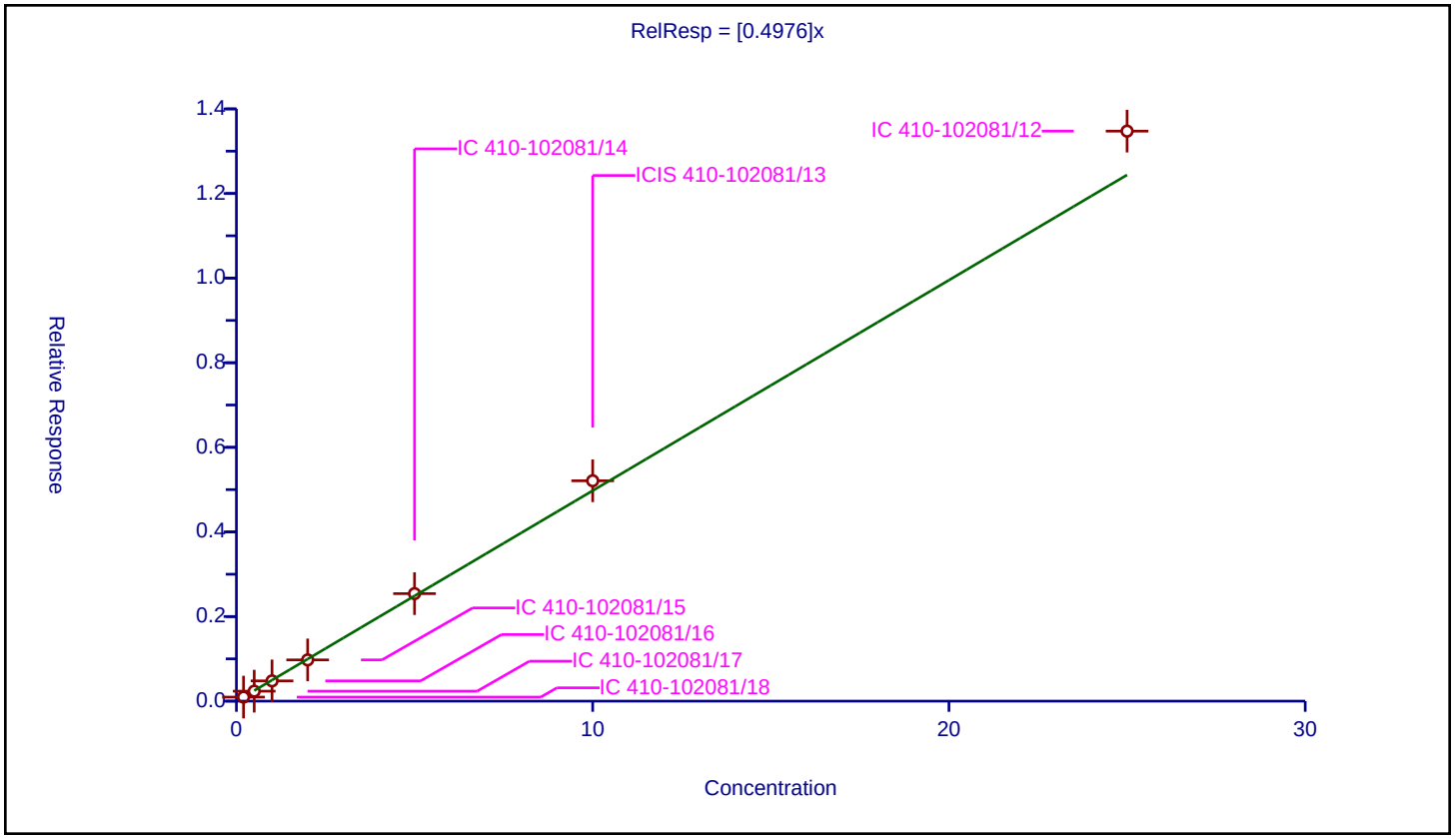
Curve Coefficients

Intercept:	0
Slope:	0.4976

Error Coefficients

Standard Error:	990000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.095546	10.0	1589174.0	0.477732	Y
2	IC 410-102081/17	0.5	0.235612	10.0	1612013.0	0.471224	Y
3	IC 410-102081/16	1.0	0.478516	10.0	1619173.0	0.478516	Y
4	IC 410-102081/15	2.0	0.97463	10.0	1624493.0	0.487315	Y
5	IC 410-102081/14	5.0	2.541449	10.0	1639832.0	0.50829	Y
6	ICIS 410-102081/13	10.0	5.209164	10.0	1638044.0	0.520916	Y
7	IC 410-102081/12	25.0	13.474376	10.0	1650800.0	0.538975	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

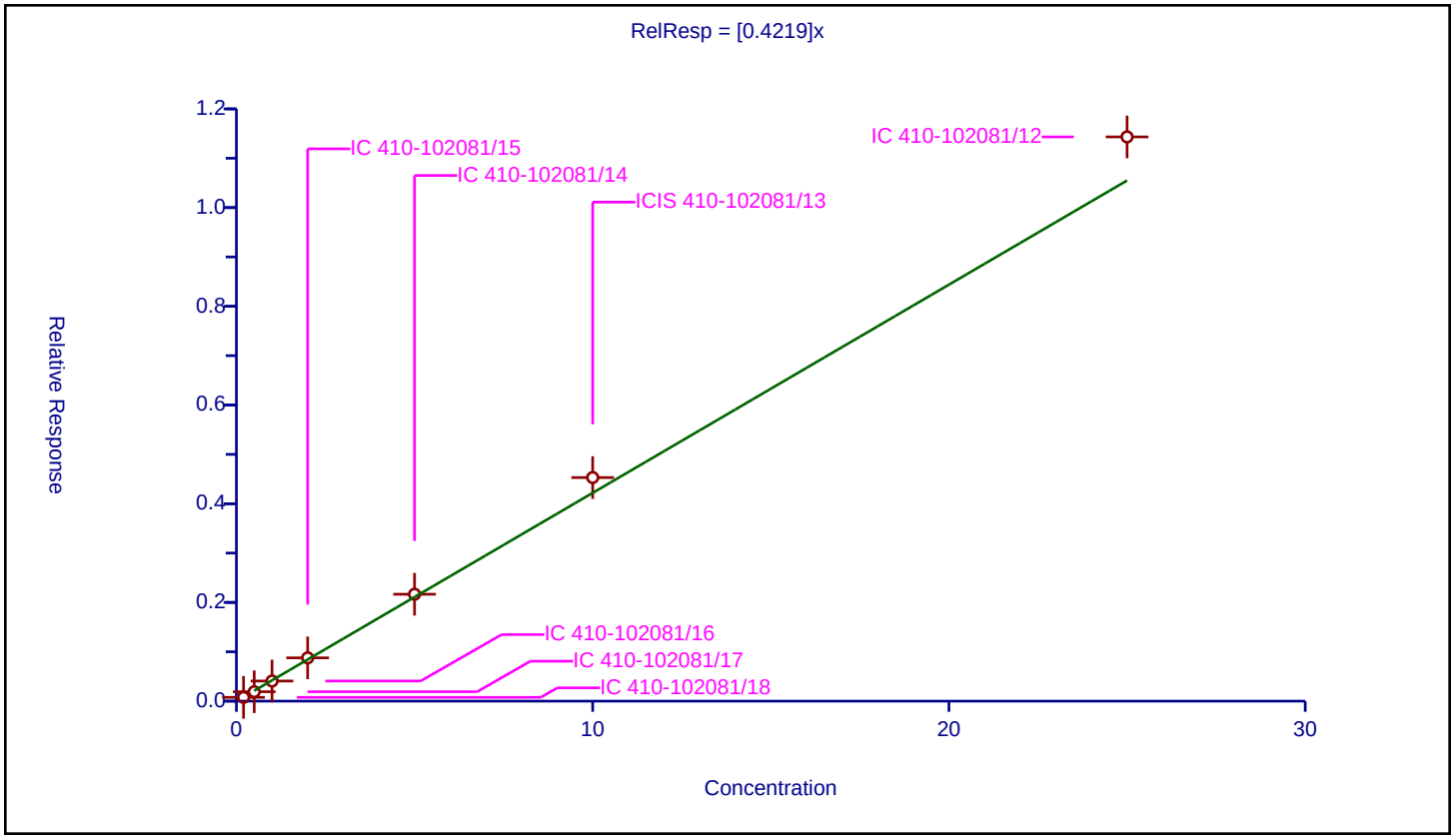
Curve Coefficients

Intercept:	0
Slope:	0.4219

Error Coefficients

Standard Error:	843000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.076323	10.0	1589174.0	0.381613	Y
2	IC 410-102081/17	0.5	0.190979	10.0	1612013.0	0.381957	Y
3	IC 410-102081/16	1.0	0.40785	10.0	1619173.0	0.40785	Y
4	IC 410-102081/15	2.0	0.877363	10.0	1624493.0	0.438681	Y
5	IC 410-102081/14	5.0	2.165935	10.0	1639832.0	0.433187	Y
6	ICIS 410-102081/13	10.0	4.530318	10.0	1638044.0	0.453032	Y
7	IC 410-102081/12	25.0	11.43253	10.0	1650800.0	0.457301	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

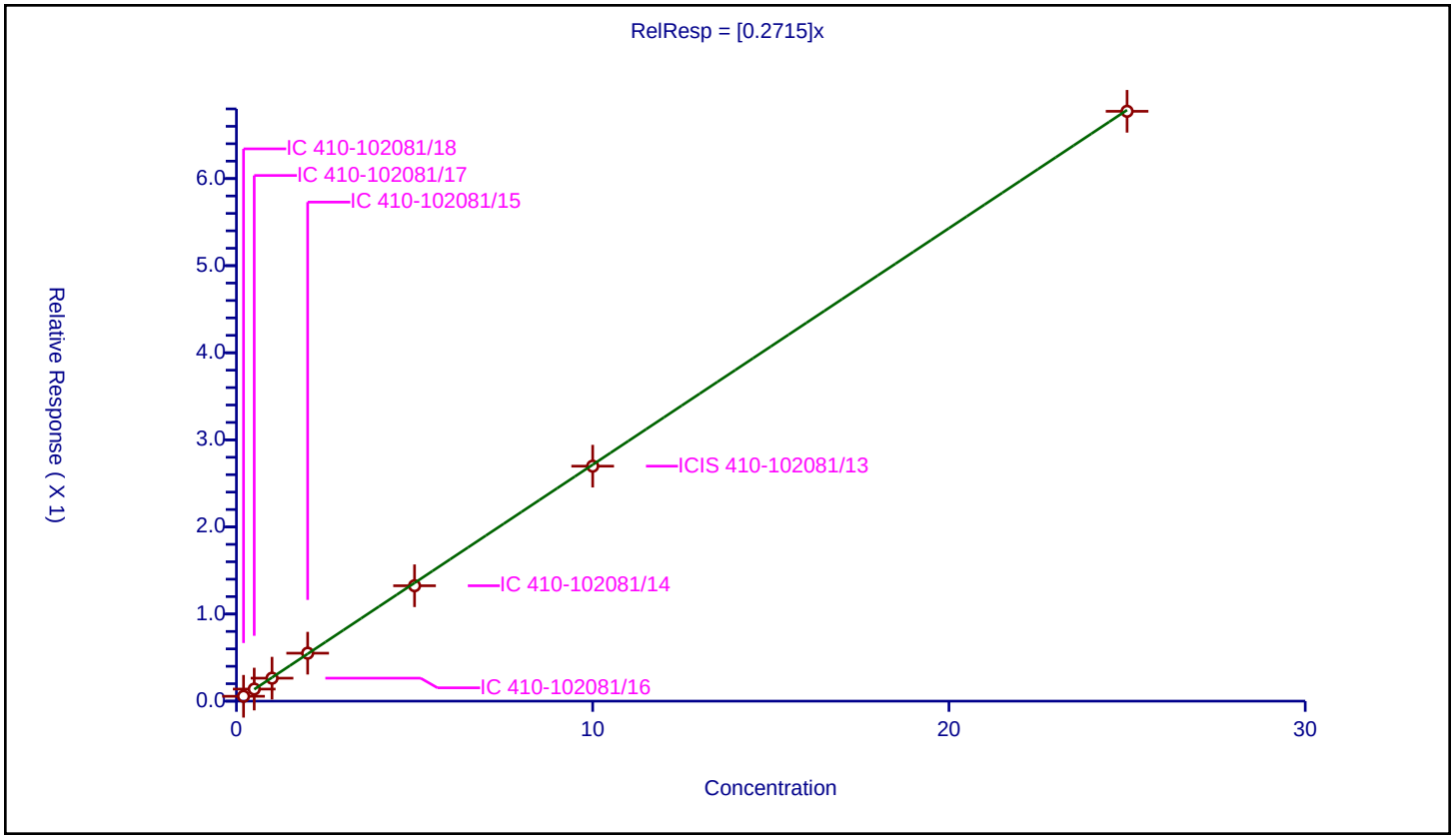
Curve Coefficients

Intercept:	0
Slope:	0.2715

Error Coefficients

Standard Error:	500000
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 410-102081/18	0.2	0.055765	10.0	1589174.0	0.278824	Y
2	IC 410-102081/17	0.5	0.138535	10.0	1612013.0	0.27707	Y
3	IC 410-102081/16	1.0	0.263641	10.0	1619173.0	0.263641	Y
4	IC 410-102081/15	2.0	0.550449	10.0	1624493.0	0.275224	Y
5	IC 410-102081/14	5.0	1.324867	10.0	1639832.0	0.264973	Y
6	ICIS 410-102081/13	10.0	2.697809	10.0	1638044.0	0.269781	Y
7	IC 410-102081/12	25.0	6.772329	10.0	1650800.0	0.270893	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

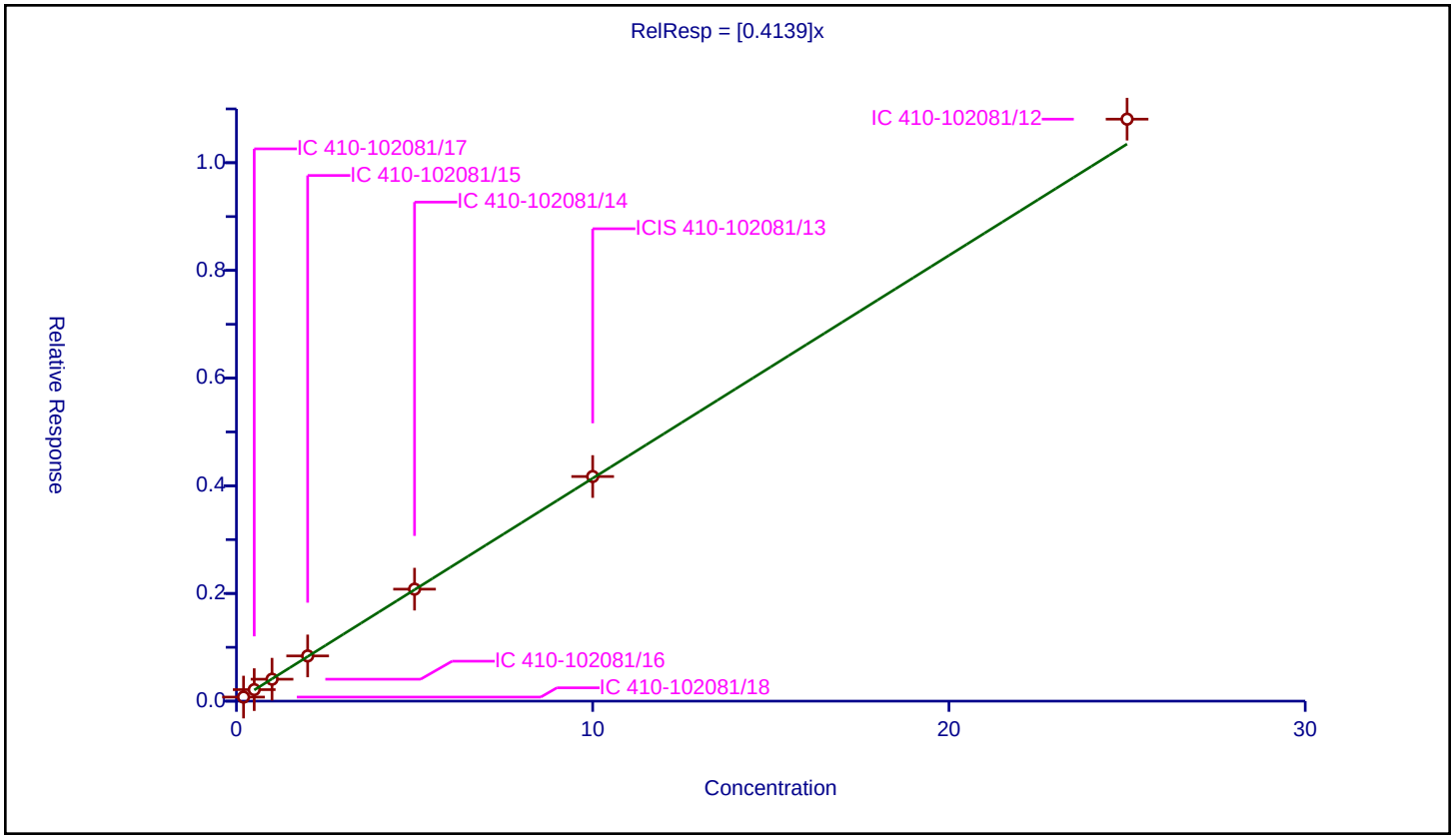
Curve Coefficients

Intercept:	0
Slope:	0.4139

Error Coefficients

Standard Error:	795000
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 410-102081/18	0.2	0.075385	10.0	1589174.0	0.376925	Y
2	IC 410-102081/17	0.5	0.213931	10.0	1612013.0	0.427863	Y
3	IC 410-102081/16	1.0	0.407301	10.0	1619173.0	0.407301	Y
4	IC 410-102081/15	2.0	0.839487	10.0	1624493.0	0.419743	Y
5	IC 410-102081/14	5.0	2.079963	10.0	1639832.0	0.415993	Y
6	ICIS 410-102081/13	10.0	4.171817	10.0	1638044.0	0.417182	Y
7	IC 410-102081/12	25.0	10.809523	10.0	1650800.0	0.432381	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

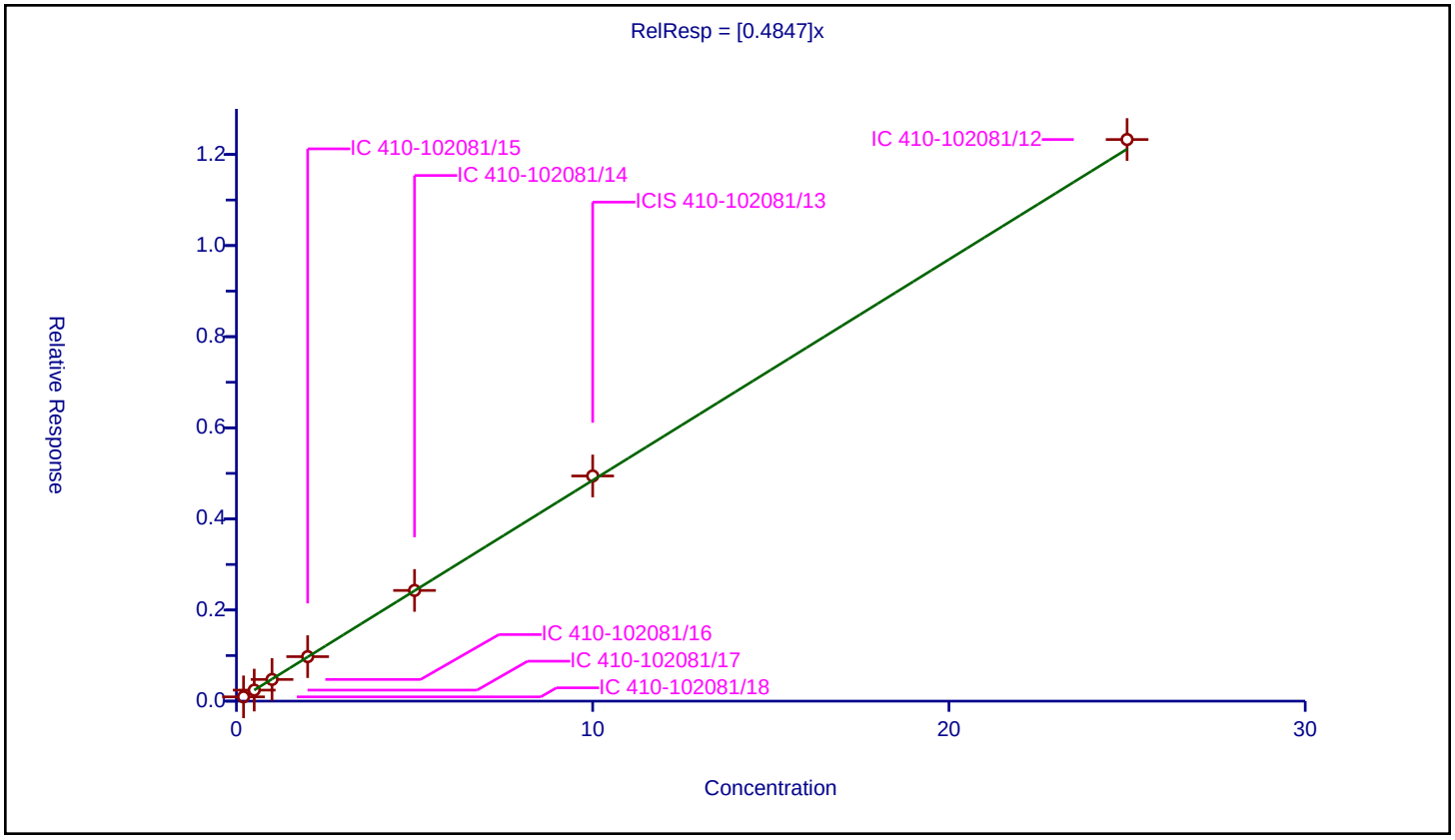
Curve Coefficients

Intercept:	0
Slope:	0.4847

Error Coefficients

Standard Error:	912000
Relative Standard Error:	1.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.094087	10.0	1589174.0	0.470433	Y
2	IC 410-102081/17	0.5	0.242331	10.0	1612013.0	0.484661	Y
3	IC 410-102081/16	1.0	0.476367	10.0	1619173.0	0.476367	Y
4	IC 410-102081/15	2.0	0.976736	10.0	1624493.0	0.488368	Y
5	IC 410-102081/14	5.0	2.42984	10.0	1639832.0	0.485968	Y
6	ICIS 410-102081/13	10.0	4.942798	10.0	1638044.0	0.49428	Y
7	IC 410-102081/12	25.0	12.327962	10.0	1650800.0	0.493118	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

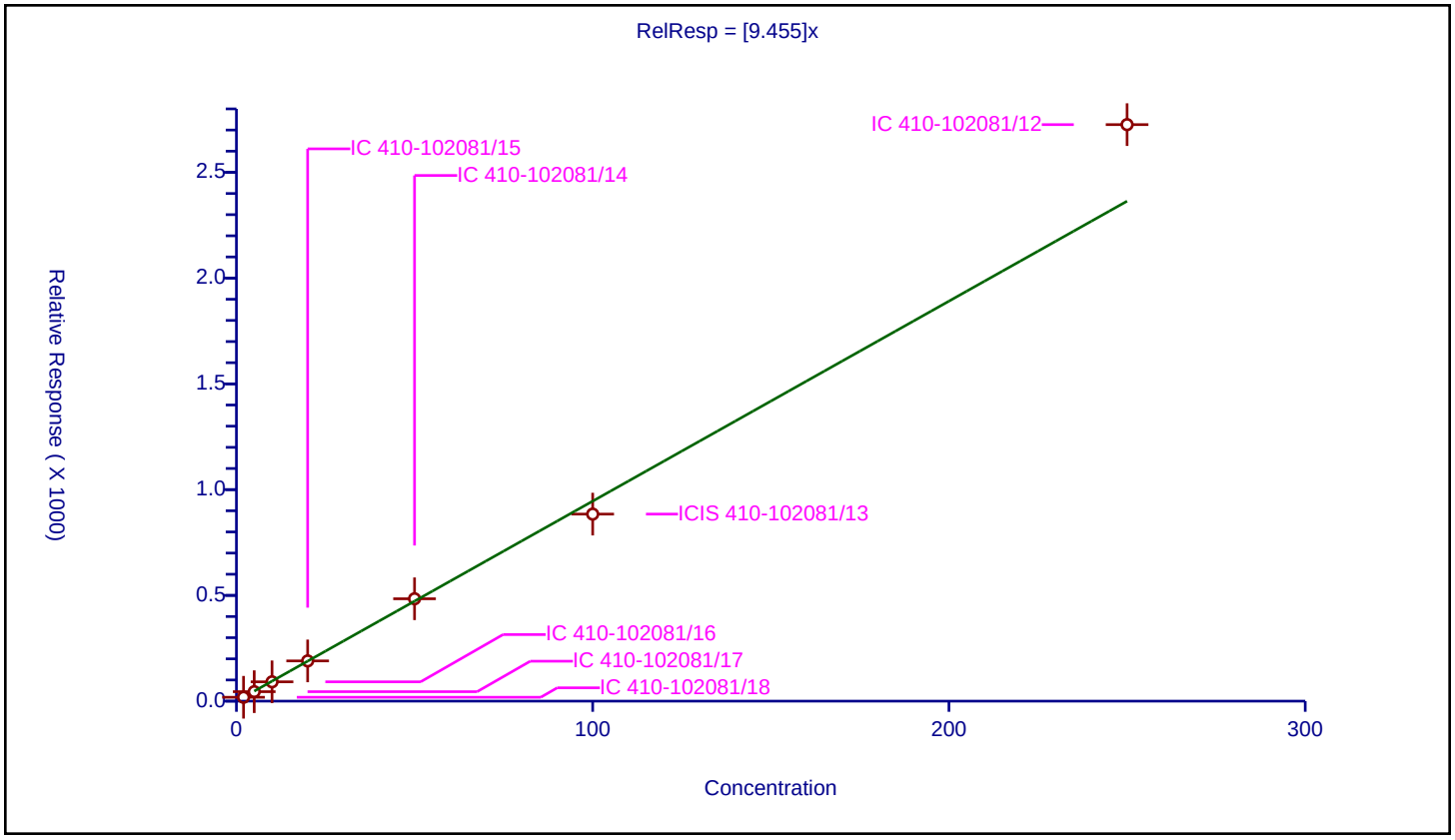
Curve Coefficients

Intercept:	0
Slope:	9.455

Error Coefficients

Standard Error:	3810000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	2.0	18.315678	50.0	174165.0	9.157839	Y
2	IC 410-102081/17	5.0	44.801768	50.0	171087.0	8.960354	Y
3	IC 410-102081/16	10.0	91.32516	50.0	165663.0	9.132516	Y
4	IC 410-102081/15	20.0	190.205795	50.0	173036.0	9.51029	Y
5	IC 410-102081/14	50.0	483.991148	50.0	171477.0	9.679823	Y
6	ICIS 410-102081/13	100.0	884.245769	50.0	195338.0	8.842458	Y
7	IC 410-102081/12	250.0	2725.588785	50.0	155617.0	10.902355	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

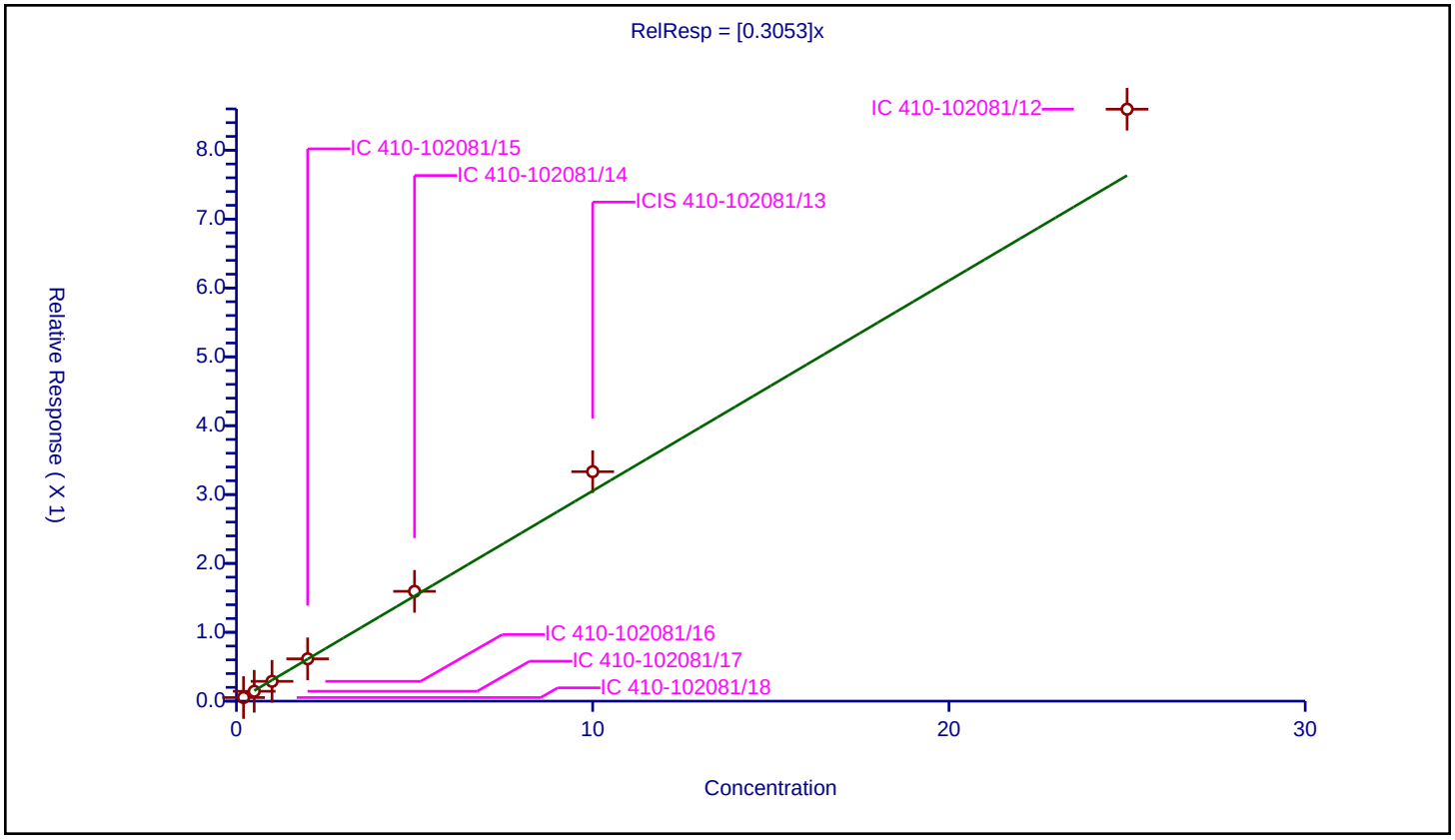
Curve Coefficients

Intercept:	0
Slope:	0.3053

Error Coefficients

Standard Error:	631000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.052115	10.0	1589174.0	0.260576	Y
2	IC 410-102081/17	0.5	0.143101	10.0	1612013.0	0.286201	Y
3	IC 410-102081/16	1.0	0.287492	10.0	1619173.0	0.287492	Y
4	IC 410-102081/15	2.0	0.614204	10.0	1624493.0	0.307102	Y
5	IC 410-102081/14	5.0	1.594535	10.0	1639832.0	0.318907	Y
6	ICIS 410-102081/13	10.0	3.331889	10.0	1638044.0	0.333189	Y
7	IC 410-102081/12	25.0	8.595487	10.0	1650800.0	0.343819	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

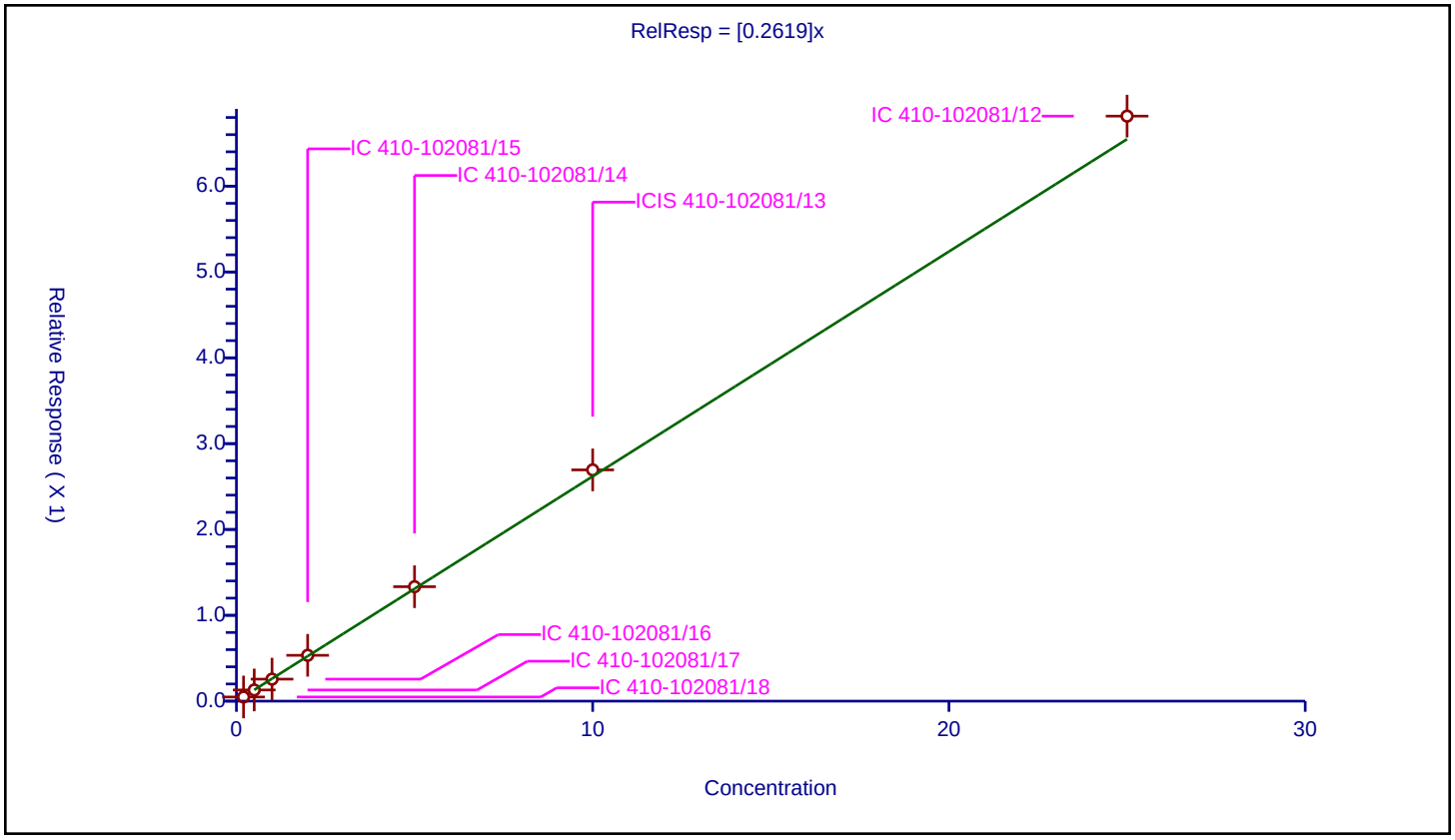
Curve Coefficients

Intercept:	0
Slope:	0.2619

Error Coefficients

Standard Error:	503000
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 410-102081/18	0.2	0.04822	10.0	1589174.0	0.2411	Y
2	IC 410-102081/17	0.5	0.13003	10.0	1612013.0	0.26006	Y
3	IC 410-102081/16	1.0	0.256545	10.0	1619173.0	0.256545	Y
4	IC 410-102081/15	2.0	0.533859	10.0	1624493.0	0.266929	Y
5	IC 410-102081/14	5.0	1.333051	10.0	1639832.0	0.26661	Y
6	ICIS 410-102081/13	10.0	2.694287	10.0	1638044.0	0.269429	Y
7	IC 410-102081/12	25.0	6.815871	10.0	1650800.0	0.272635	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

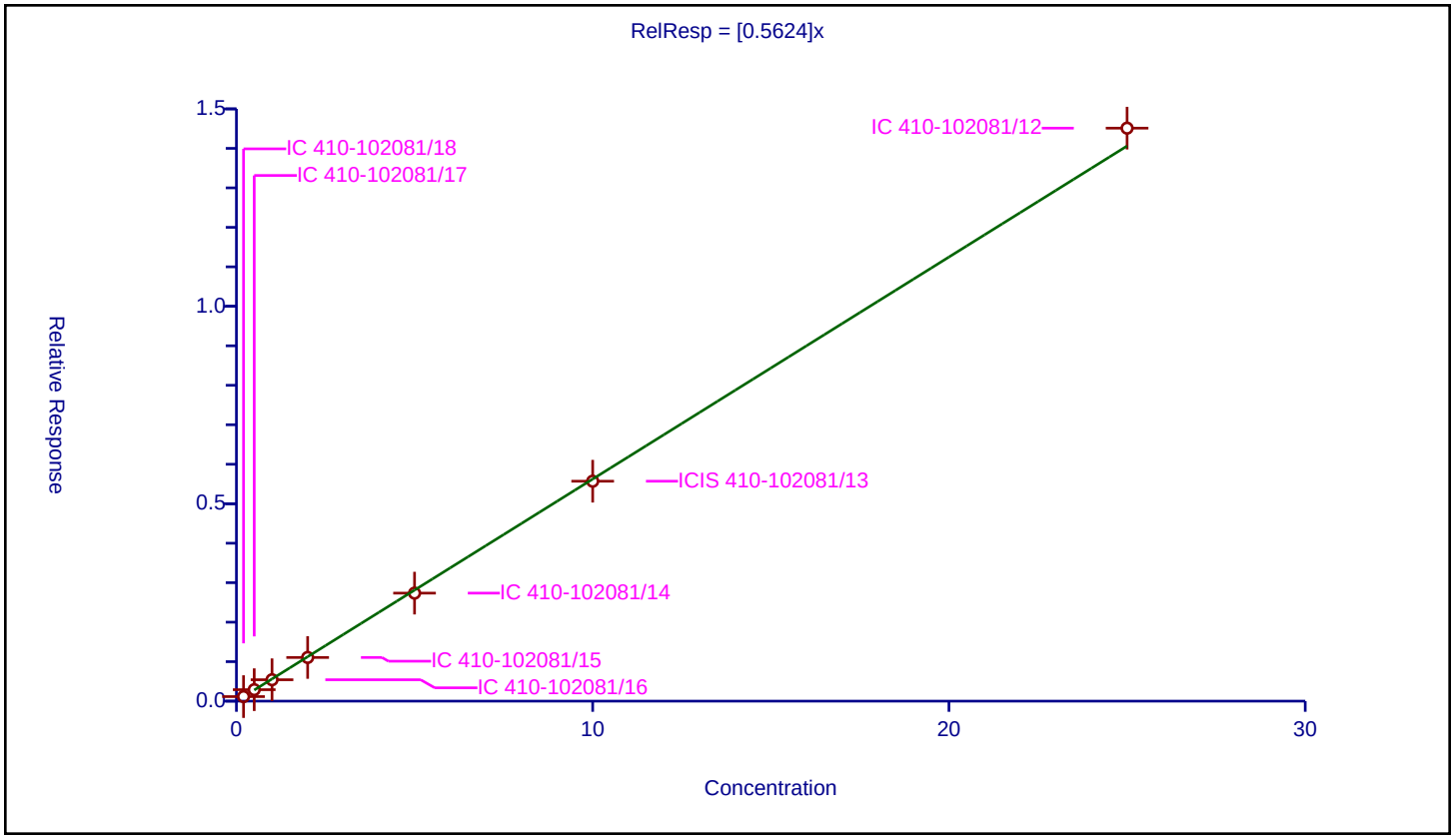
Curve Coefficients

Intercept:	0
Slope:	0.5624

Error Coefficients

Standard Error:	1070000
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 410-102081/18	0.2	0.115091	10.0	1589174.0	0.575456	Y
2	IC 410-102081/17	0.5	0.290692	10.0	1612013.0	0.581385	Y
3	IC 410-102081/16	1.0	0.542339	10.0	1619173.0	0.542339	Y
4	IC 410-102081/15	2.0	1.106025	10.0	1624493.0	0.553013	Y
5	IC 410-102081/14	5.0	2.735524	10.0	1639832.0	0.547105	Y
6	ICIS 410-102081/13	10.0	5.570198	10.0	1638044.0	0.55702	Y
7	IC 410-102081/12	25.0	14.5122	10.0	1650800.0	0.580488	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

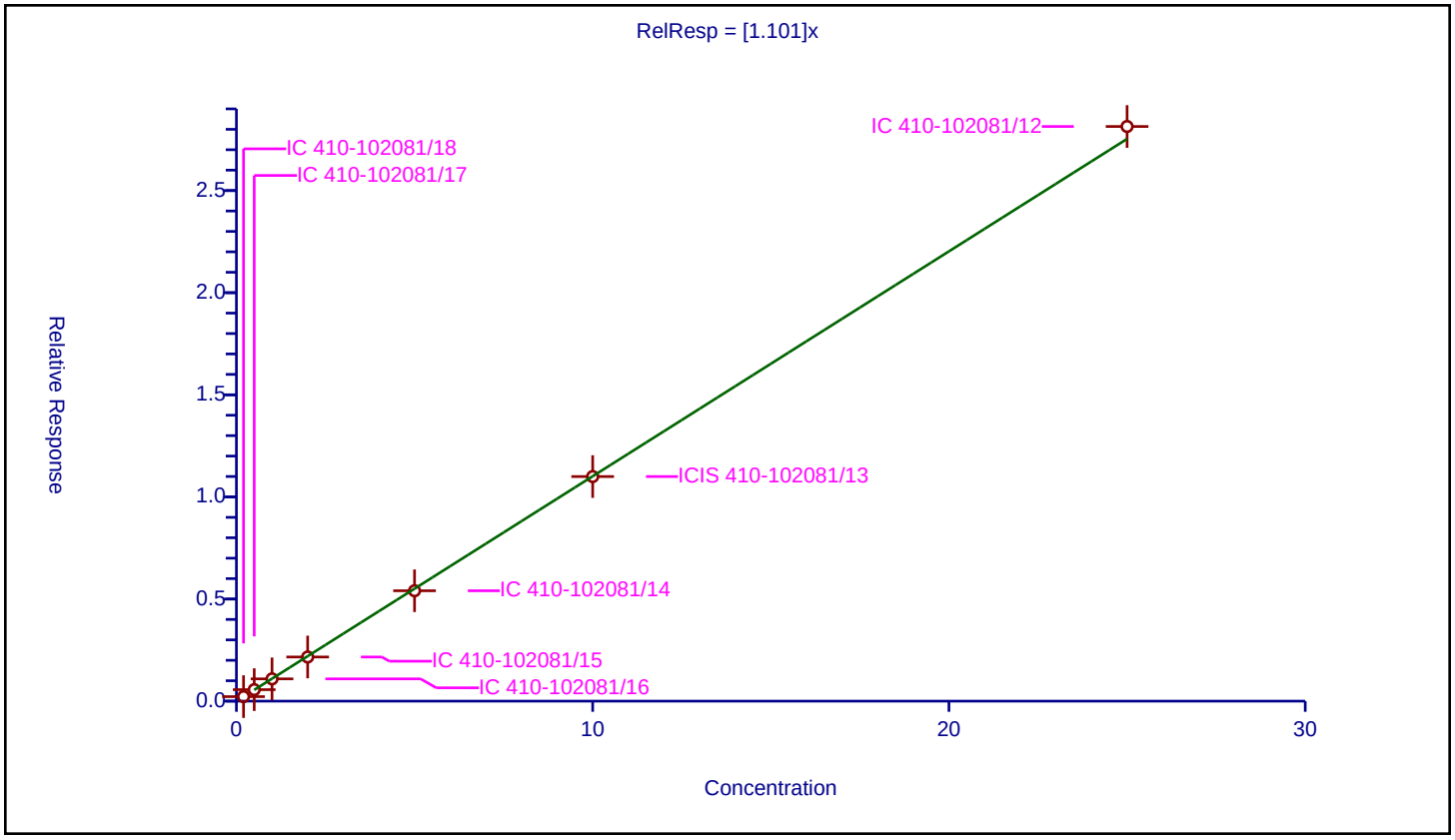
Curve Coefficients

Intercept:	0
Slope:	1.101

Error Coefficients

Standard Error:	2070000
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 410-102081/18	0.2	0.220788	10.0	1589174.0	1.103938	Y
2	IC 410-102081/17	0.5	0.563383	10.0	1612013.0	1.126765	Y
3	IC 410-102081/16	1.0	1.090804	10.0	1619173.0	1.090804	Y
4	IC 410-102081/15	2.0	2.161659	10.0	1624493.0	1.08083	Y
5	IC 410-102081/14	5.0	5.40517	10.0	1639832.0	1.081034	Y
6	ICIS 410-102081/13	10.0	10.996683	10.0	1638044.0	1.099668	Y
7	IC 410-102081/12	25.0	28.137727	10.0	1650800.0	1.125509	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

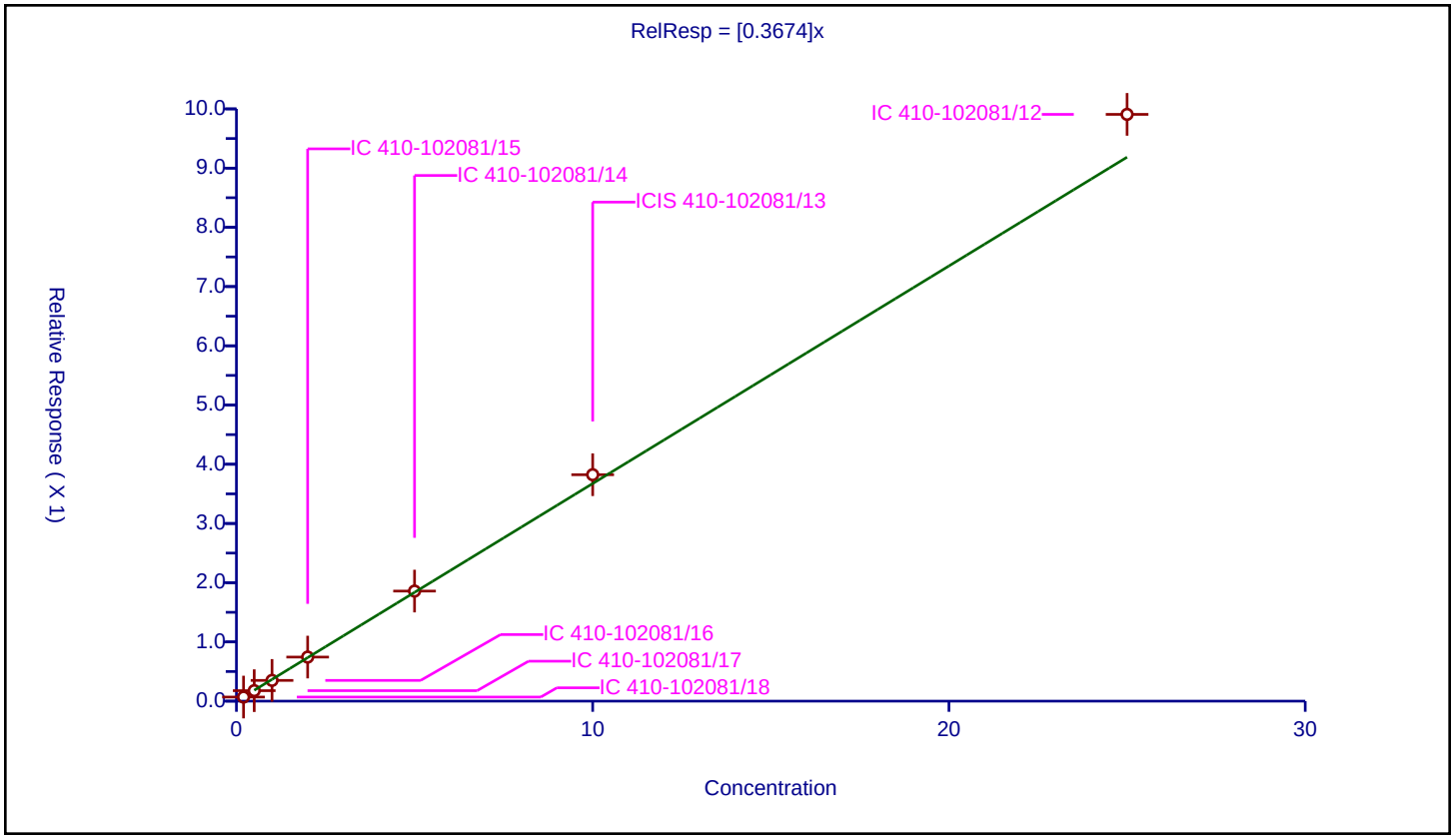
Curve Coefficients

Intercept:	0
Slope:	0.3674

Error Coefficients

Standard Error:	728000
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 410-102081/18	0.2	0.069004	10.0	1589174.0	0.345022	Y
2	IC 410-102081/17	0.5	0.177114	10.0	1612013.0	0.354228	Y
3	IC 410-102081/16	1.0	0.350296	10.0	1619173.0	0.350296	Y
4	IC 410-102081/15	2.0	0.744041	10.0	1624493.0	0.372021	Y
5	IC 410-102081/14	5.0	1.858209	10.0	1639832.0	0.371642	Y
6	ICIS 410-102081/13	10.0	3.823389	10.0	1638044.0	0.382339	Y
7	IC 410-102081/12	25.0	9.90736	10.0	1650800.0	0.396294	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

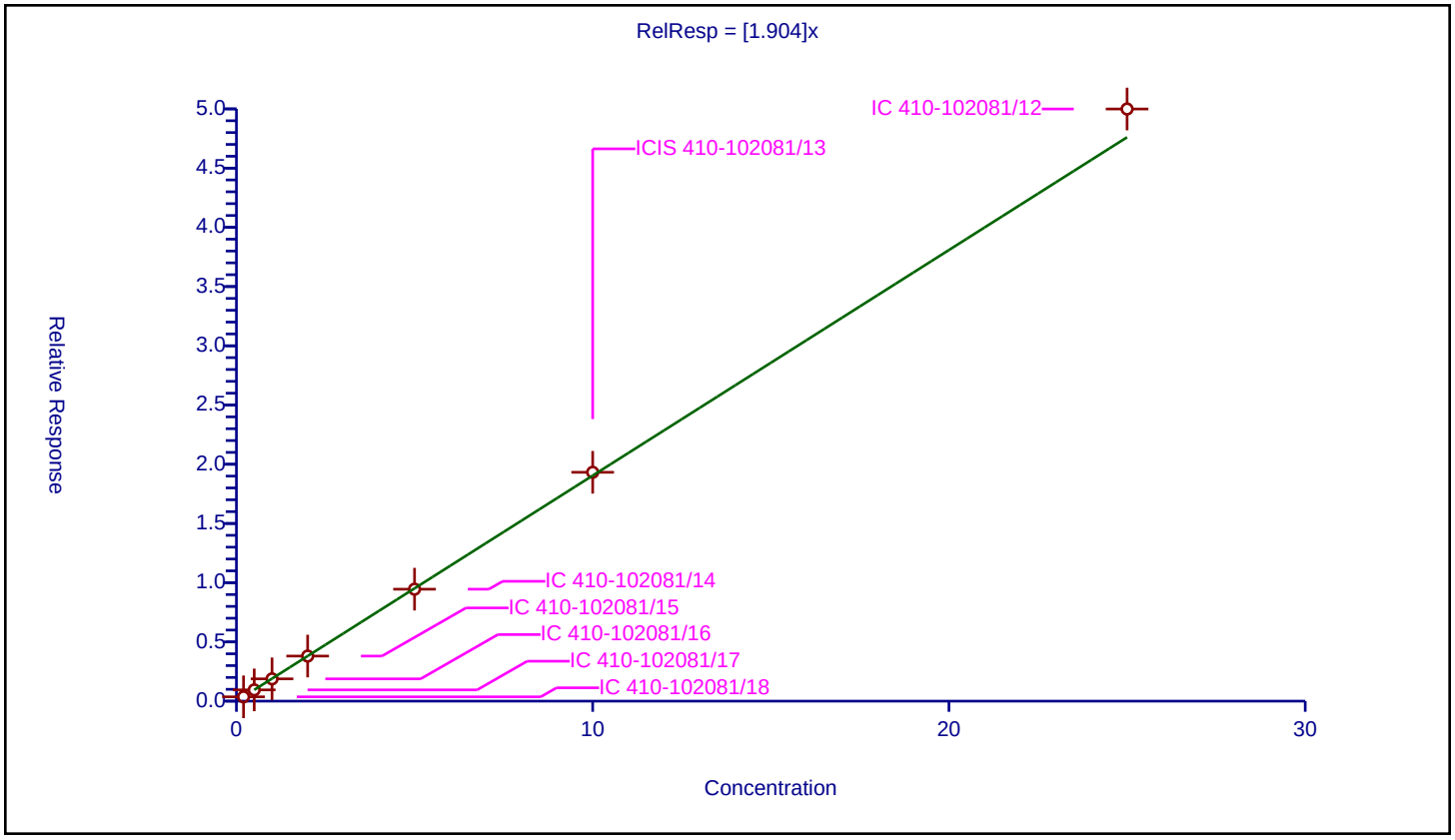
Curve Coefficients

Intercept:	0
Slope:	1.904

Error Coefficients

Standard Error:	3670000
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 410-102081/18	0.2	0.364195	10.0	1589174.0	1.820977	Y
2	IC 410-102081/17	0.5	0.950985	10.0	1612013.0	1.90197	Y
3	IC 410-102081/16	1.0	1.881837	10.0	1619173.0	1.881837	Y
4	IC 410-102081/15	2.0	3.806012	10.0	1624493.0	1.903006	Y
5	IC 410-102081/14	5.0	9.451346	10.0	1639832.0	1.890269	Y
6	ICIS 410-102081/13	10.0	19.320146	10.0	1638044.0	1.932015	Y
7	IC 410-102081/12	25.0	49.990417	10.0	1650800.0	1.999617	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

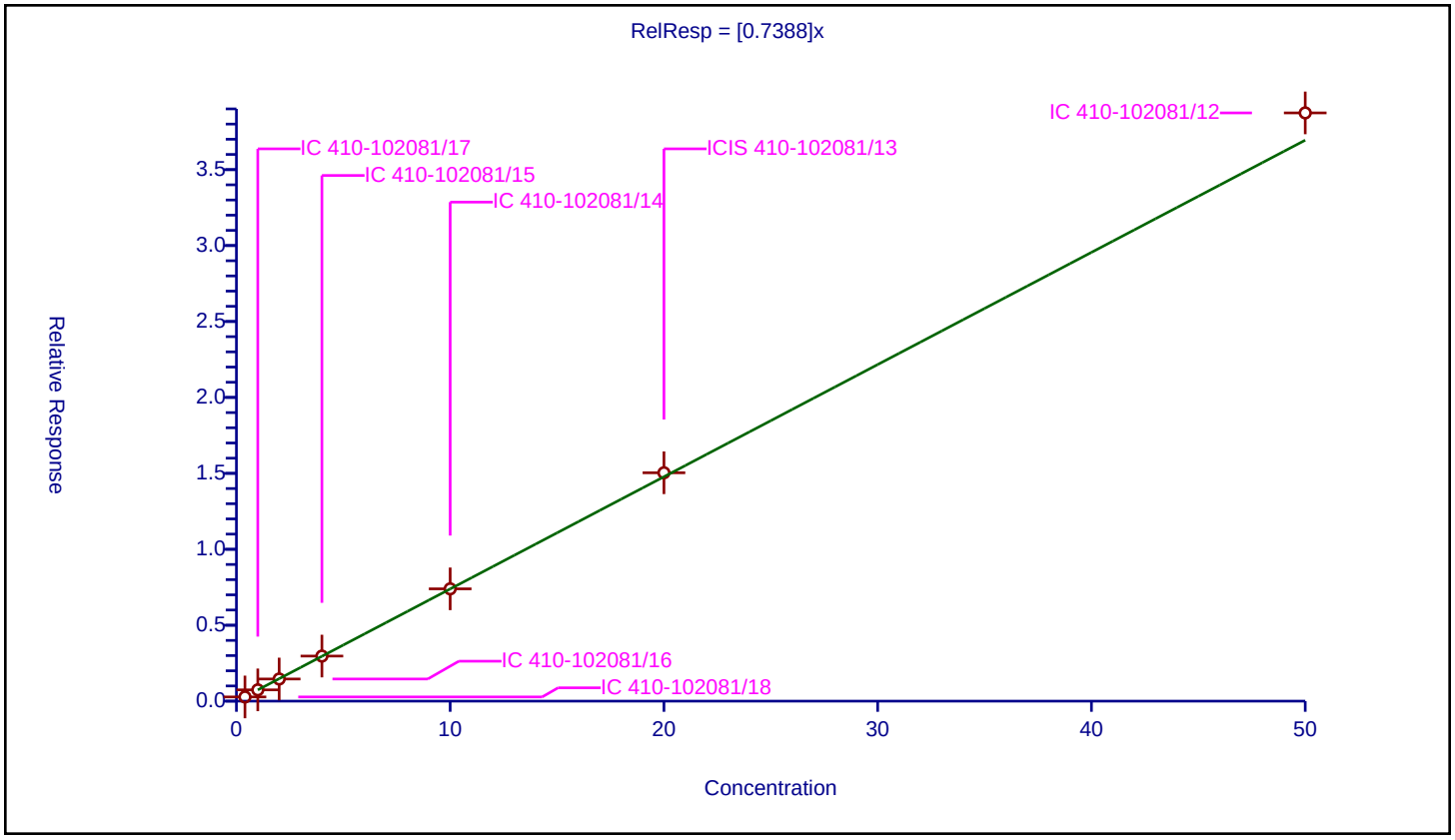
Curve Coefficients

Intercept:	0
Slope:	0.7388

Error Coefficients

Standard Error:	2850000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.4	0.276955	10.0	1589174.0	0.692388	Y
2	IC 410-102081/17	1.0	0.742085	10.0	1612013.0	0.742085	Y
3	IC 410-102081/16	2.0	1.457899	10.0	1619173.0	0.728949	Y
4	IC 410-102081/15	4.0	2.968342	10.0	1624493.0	0.742085	Y
5	IC 410-102081/14	10.0	7.394355	10.0	1639832.0	0.739436	Y
6	ICIS 410-102081/13	20.0	15.03832	10.0	1638044.0	0.751916	Y
7	IC 410-102081/12	50.0	38.734759	10.0	1650800.0	0.774695	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

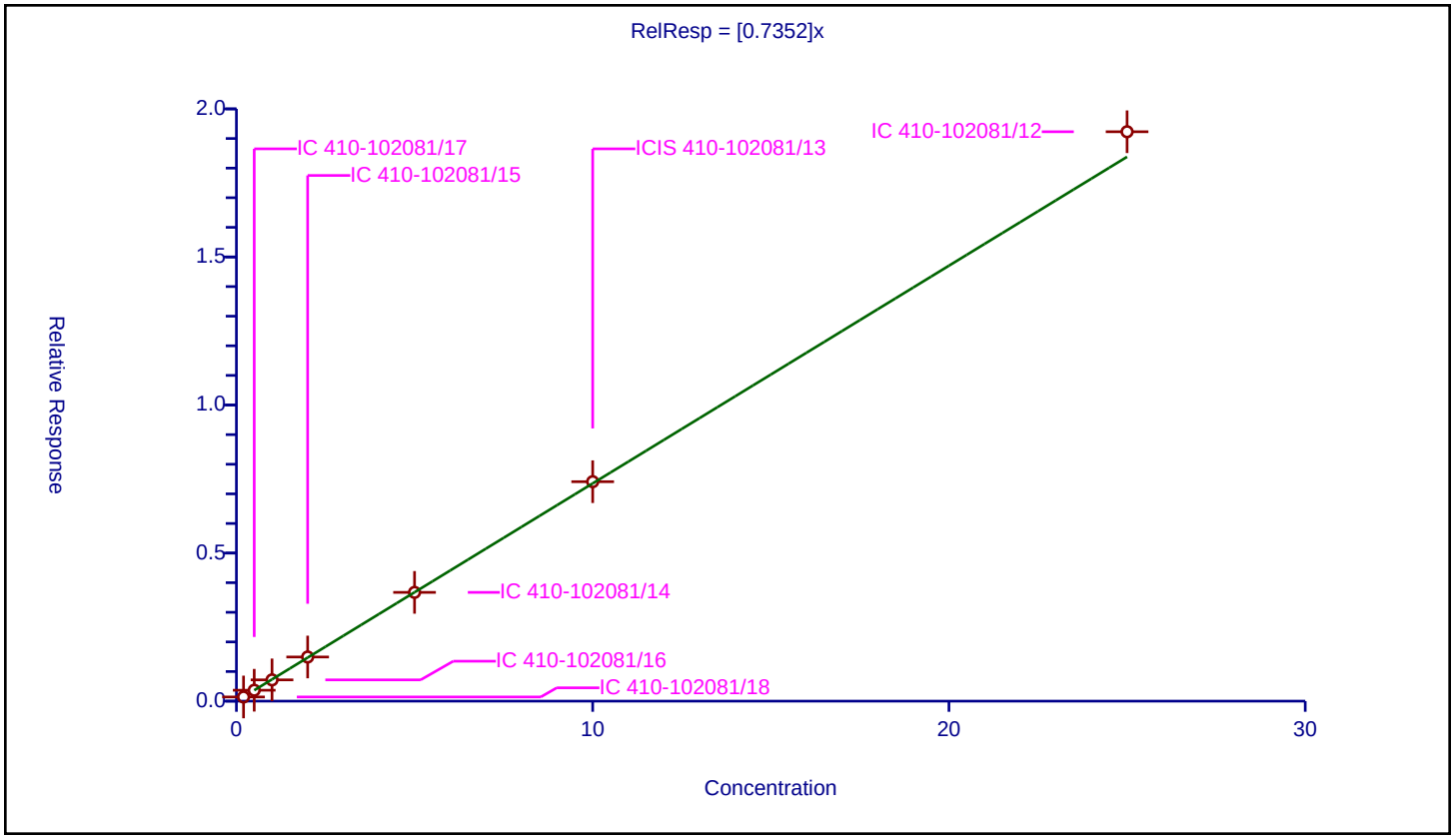
Curve Coefficients

Intercept:	0
Slope:	0.7352

Error Coefficients

Standard Error:	1410000
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 410-102081/18	0.2	0.140394	10.0	1589174.0	0.701968	Y
2	IC 410-102081/17	0.5	0.368204	10.0	1612013.0	0.736408	Y
3	IC 410-102081/16	1.0	0.718064	10.0	1619173.0	0.718064	Y
4	IC 410-102081/15	2.0	1.490902	10.0	1624493.0	0.745451	Y
5	IC 410-102081/14	5.0	3.672645	10.0	1639832.0	0.734529	Y
6	ICIS 410-102081/13	10.0	7.410735	10.0	1638044.0	0.741073	Y
7	IC 410-102081/12	25.0	19.22838	10.0	1650800.0	0.769135	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

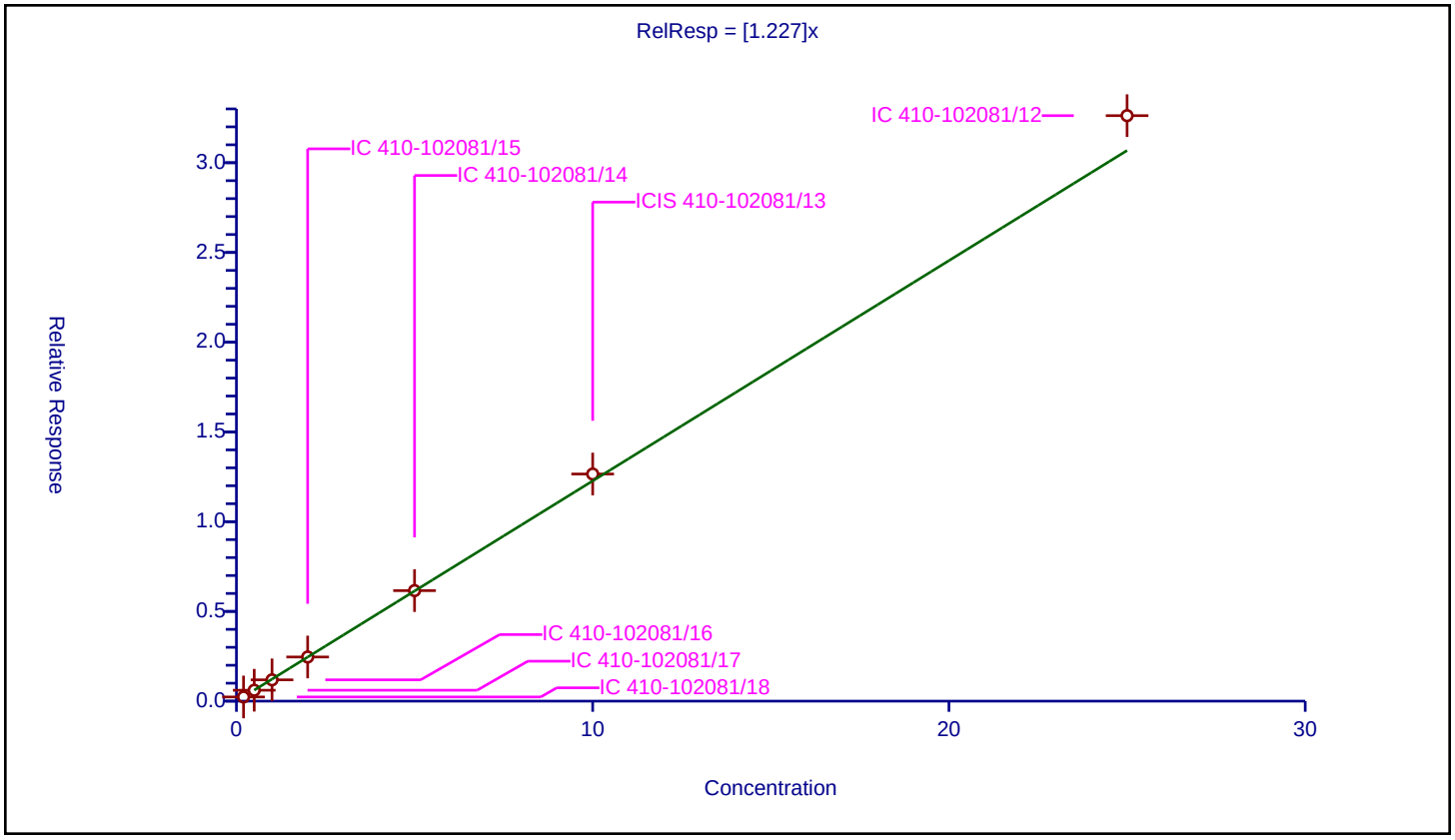
Curve Coefficients

Intercept:	0
Slope:	1.227

Error Coefficients

Standard Error:	2400000
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 410-102081/18	0.2	0.231668	10.0	1589174.0	1.158338	Y
2	IC 410-102081/17	0.5	0.607396	10.0	1612013.0	1.214792	Y
3	IC 410-102081/16	1.0	1.185994	10.0	1619173.0	1.185994	Y
4	IC 410-102081/15	2.0	2.459346	10.0	1624493.0	1.229673	Y
5	IC 410-102081/14	5.0	6.158698	10.0	1639832.0	1.23174	Y
6	ICIS 410-102081/13	10.0	12.655844	10.0	1638044.0	1.265584	Y
7	IC 410-102081/12	25.0	32.623074	10.0	1650800.0	1.304923	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

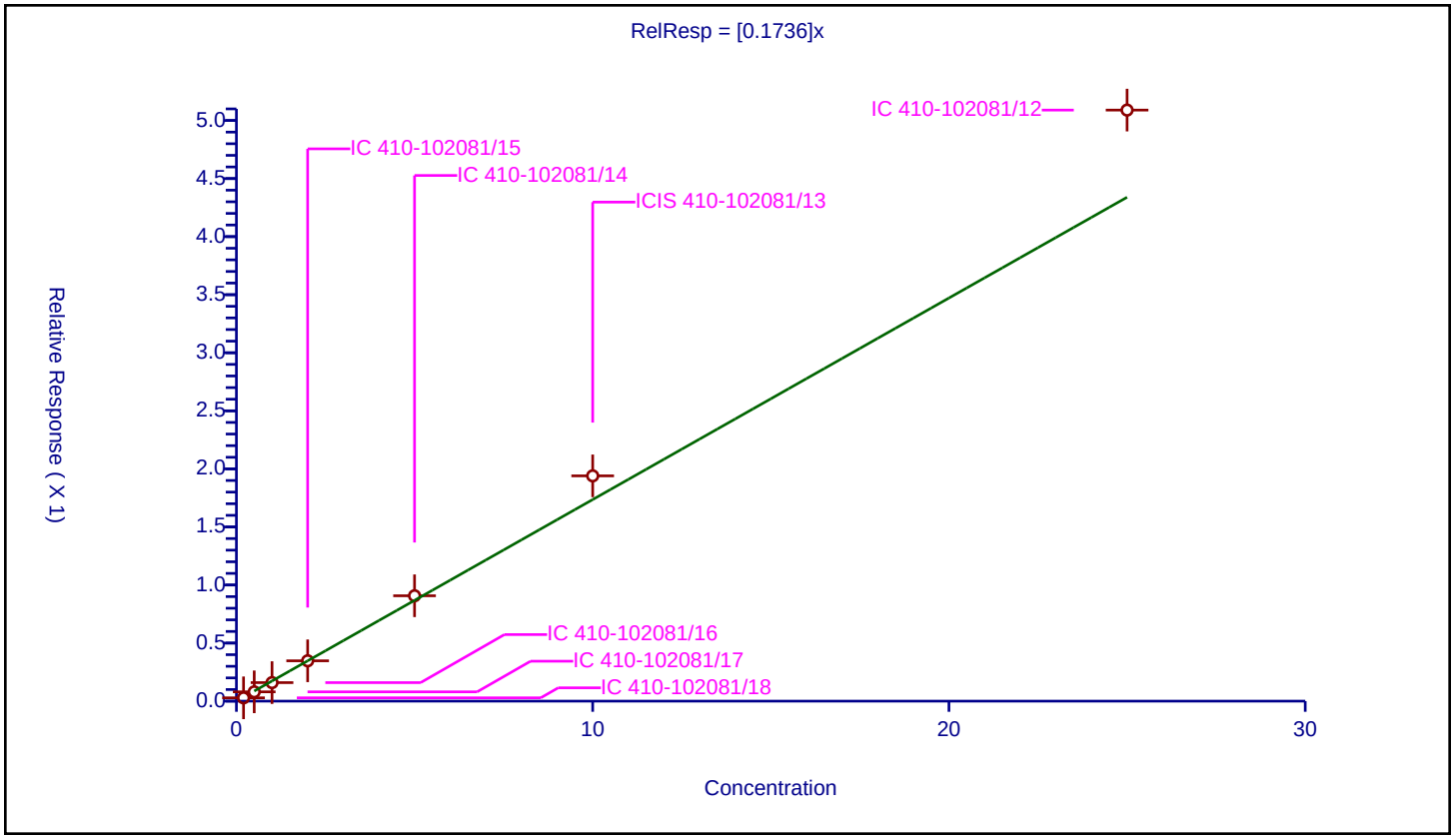
Curve Coefficients

Intercept:	0
Slope:	0.1736

Error Coefficients

Standard Error:	373000
Relative Standard Error:	12.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.028449	10.0	1589174.0	0.142244	Y
2	IC 410-102081/17	0.5	0.080204	10.0	1612013.0	0.160408	Y
3	IC 410-102081/16	1.0	0.159526	10.0	1619173.0	0.159526	Y
4	IC 410-102081/15	2.0	0.347462	10.0	1624493.0	0.173731	Y
5	IC 410-102081/14	5.0	0.907532	10.0	1639832.0	0.181506	Y
6	ICIS 410-102081/13	10.0	1.939887	10.0	1638044.0	0.193989	Y
7	IC 410-102081/12	25.0	5.089581	10.0	1650800.0	0.203583	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

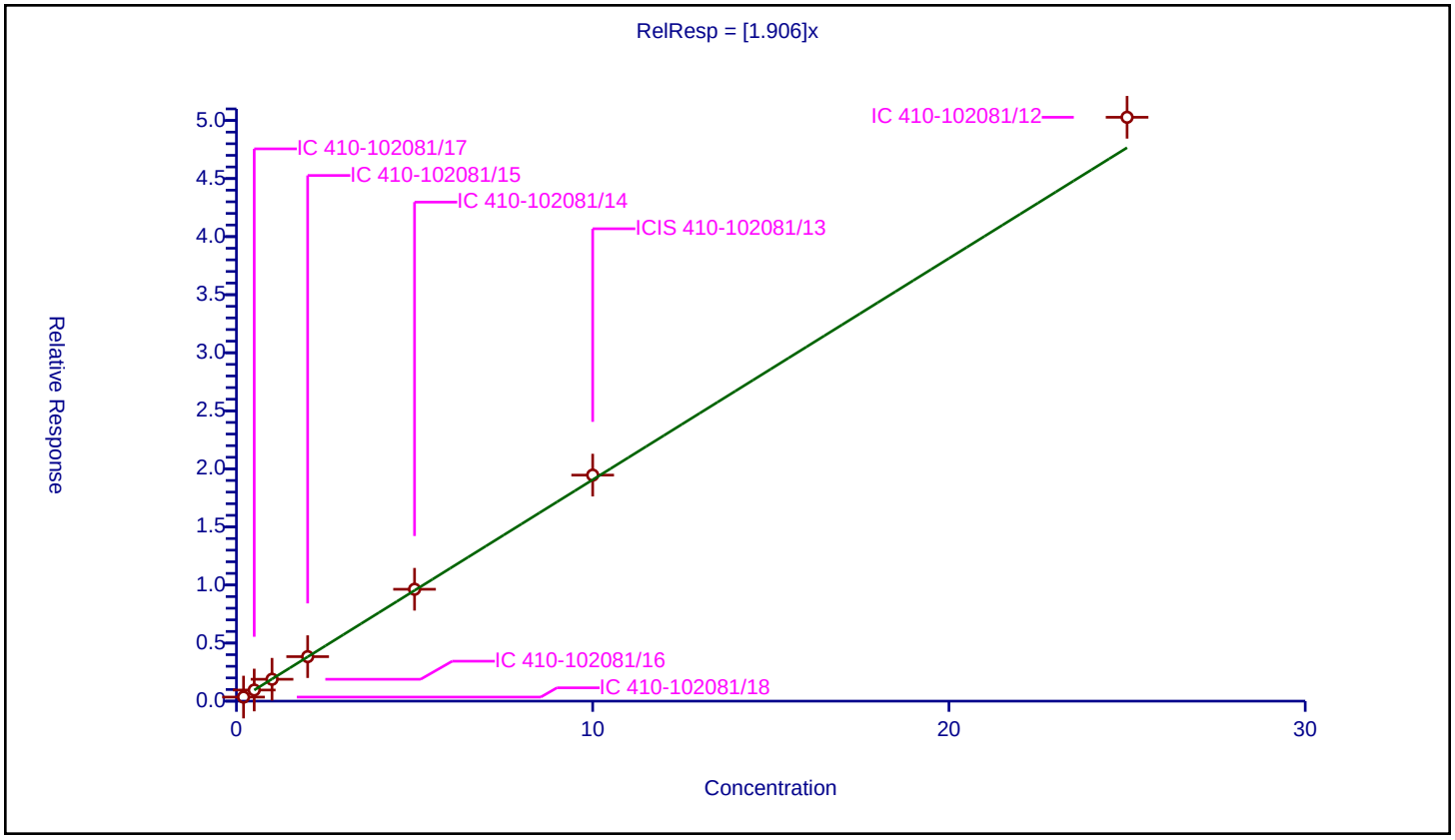
Curve Coefficients

Intercept:	0
Slope:	1.906

Error Coefficients

Standard Error:	3700000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.34898	10.0	1589174.0	1.7449	Y
2	IC 410-102081/17	0.5	0.958156	10.0	1612013.0	1.916312	Y
3	IC 410-102081/16	1.0	1.883276	10.0	1619173.0	1.883276	Y
4	IC 410-102081/15	2.0	3.832445	10.0	1624493.0	1.916222	Y
5	IC 410-102081/14	5.0	9.634737	10.0	1639832.0	1.926947	Y
6	ICIS 410-102081/13	10.0	19.46477	10.0	1638044.0	1.946477	Y
7	IC 410-102081/12	25.0	50.276793	10.0	1650800.0	2.011072	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

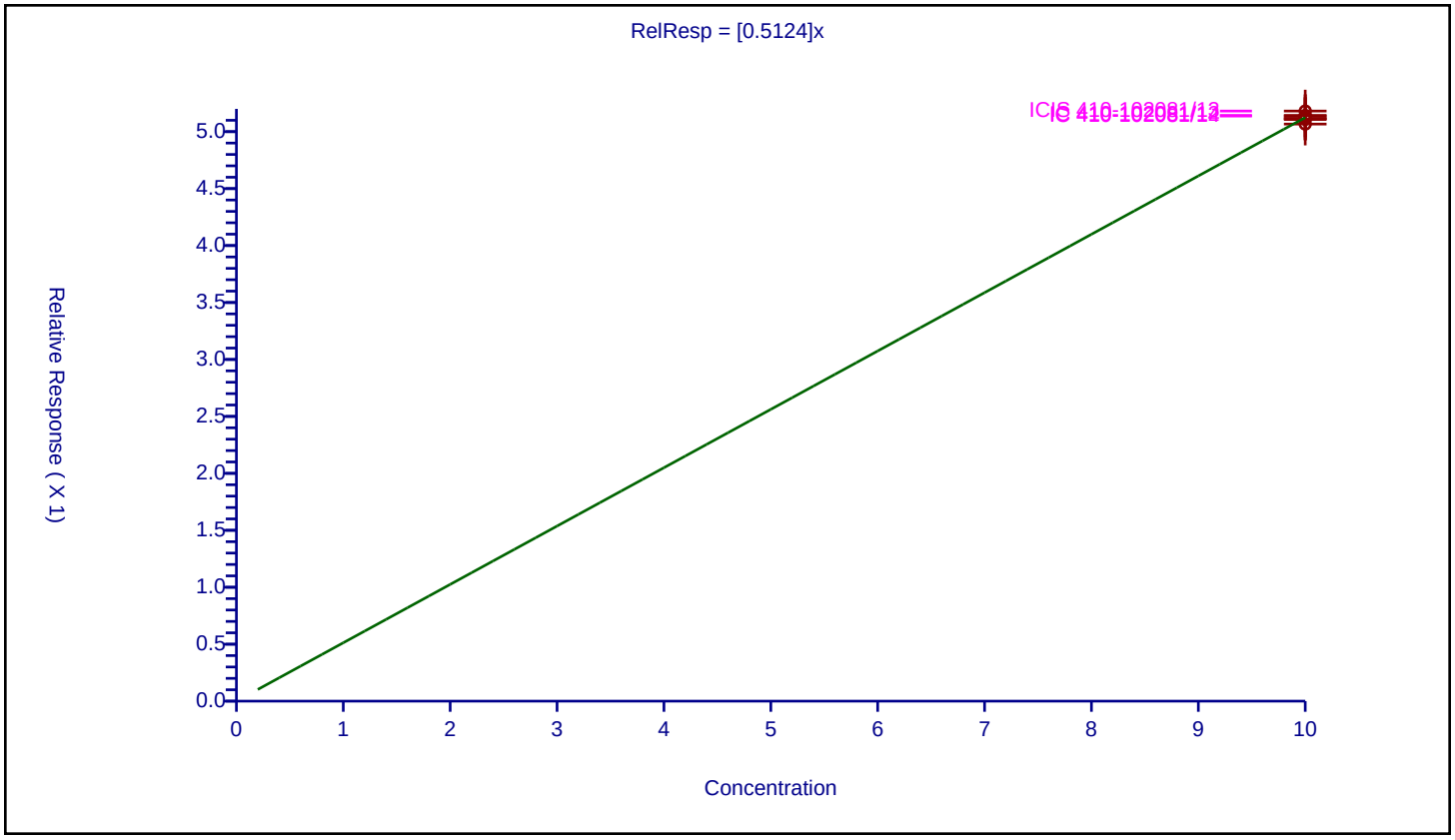
Curve Coefficients

Intercept:	0
Slope:	0.5124

Error Coefficients

Standard Error:	899000
Relative Standard Error:	0.7
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0.000000000000000333

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/12	10.0	5.142731	10.0	1650800.0	0.514273	Y
2	ICIS 410-102081/13	10.0	5.181118	10.0	1638044.0	0.518112	Y
3	IC 410-102081/14	10.0	5.137032	10.0	1639832.0	0.513703	Y
4	IC 410-102081/15	10.0	5.116532	10.0	1624493.0	0.511653	Y
5	IC 410-102081/16	10.0	5.066735	10.0	1619173.0	0.506673	Y
6	IC 410-102081/17	10.0	5.114891	10.0	1612013.0	0.511489	Y
7	IC 410-102081/18	10.0	5.10681	10.0	1589174.0	0.510681	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

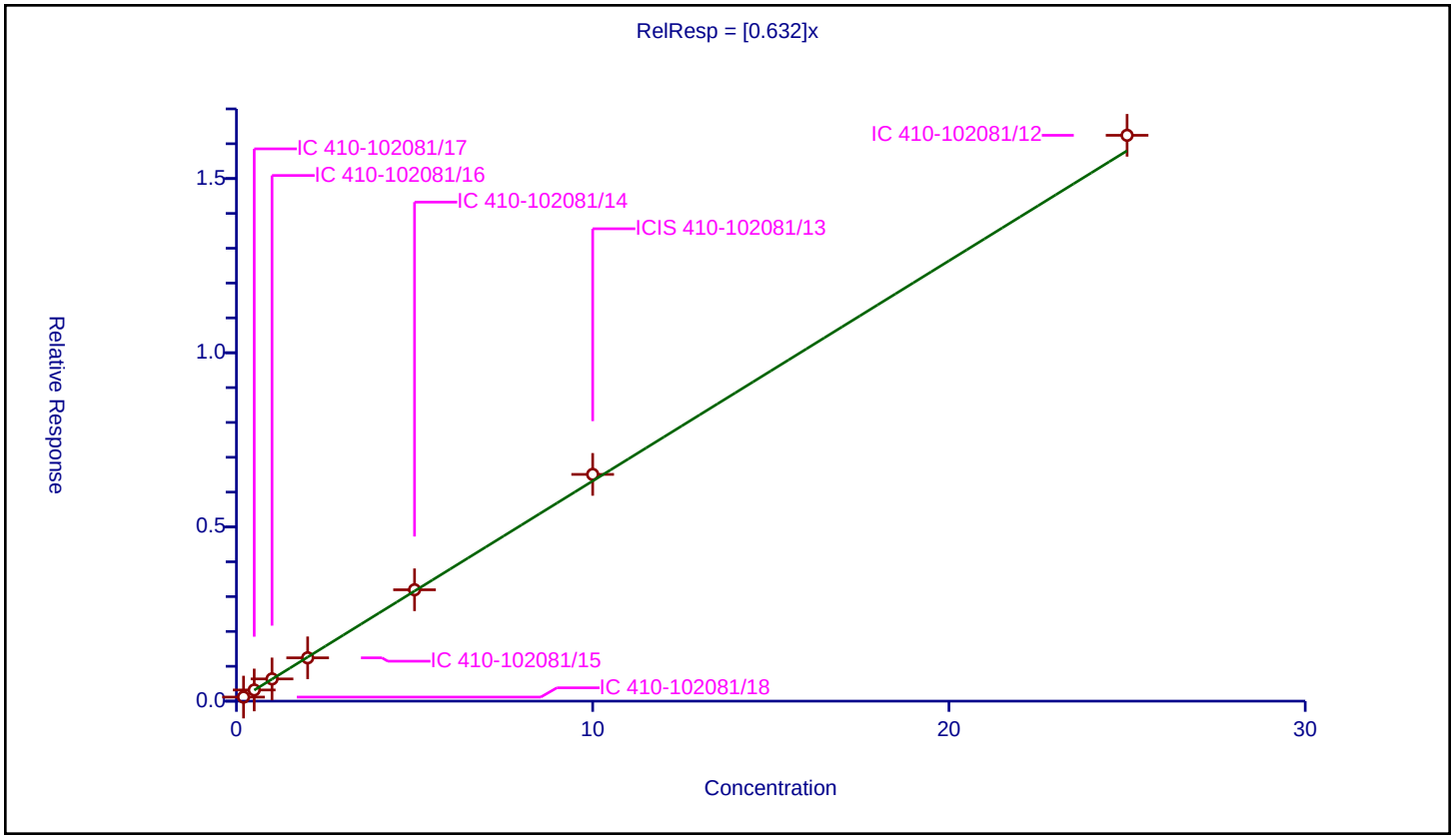
Curve Coefficients

Intercept:	0
Slope:	0.632

Error Coefficients

Standard Error:	668000
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 410-102081/18	0.2	0.116461	10.0	866469.0	0.582306	Y
2	IC 410-102081/17	0.5	0.320918	10.0	872465.0	0.641837	Y
3	IC 410-102081/16	1.0	0.638171	10.0	873073.0	0.638171	Y
4	IC 410-102081/15	2.0	1.243176	10.0	891523.0	0.621588	Y
5	IC 410-102081/14	5.0	3.196541	10.0	894811.0	0.639308	Y
6	ICIS 410-102081/13	10.0	6.508265	10.0	910957.0	0.650827	Y
7	IC 410-102081/12	25.0	16.241433	10.0	918475.0	0.649657	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

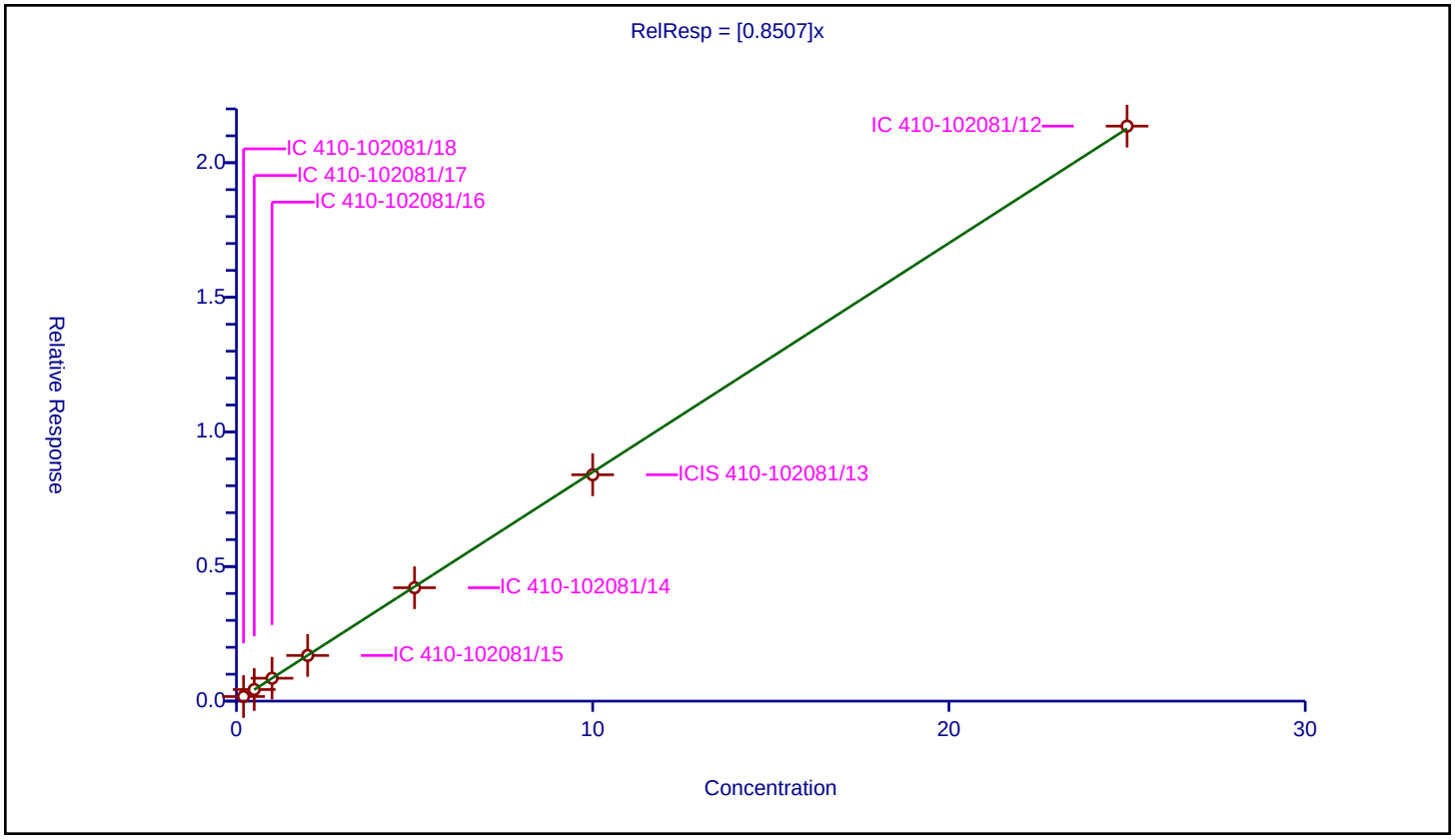
Curve Coefficients

Intercept:	0
Slope:	0.8507

Error Coefficients

Standard Error:	876000
Relative Standard Error:	0.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.170947	10.0	866469.0	0.854733	Y
2	IC 410-102081/17	0.5	0.43133	10.0	872465.0	0.862659	Y
3	IC 410-102081/16	1.0	0.85151	10.0	873073.0	0.85151	Y
4	IC 410-102081/15	2.0	1.696714	10.0	891523.0	0.848357	Y
5	IC 410-102081/14	5.0	4.212331	10.0	894811.0	0.842466	Y
6	ICIS 410-102081/13	10.0	8.409222	10.0	910957.0	0.840922	Y
7	IC 410-102081/12	25.0	21.359591	10.0	918475.0	0.854384	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

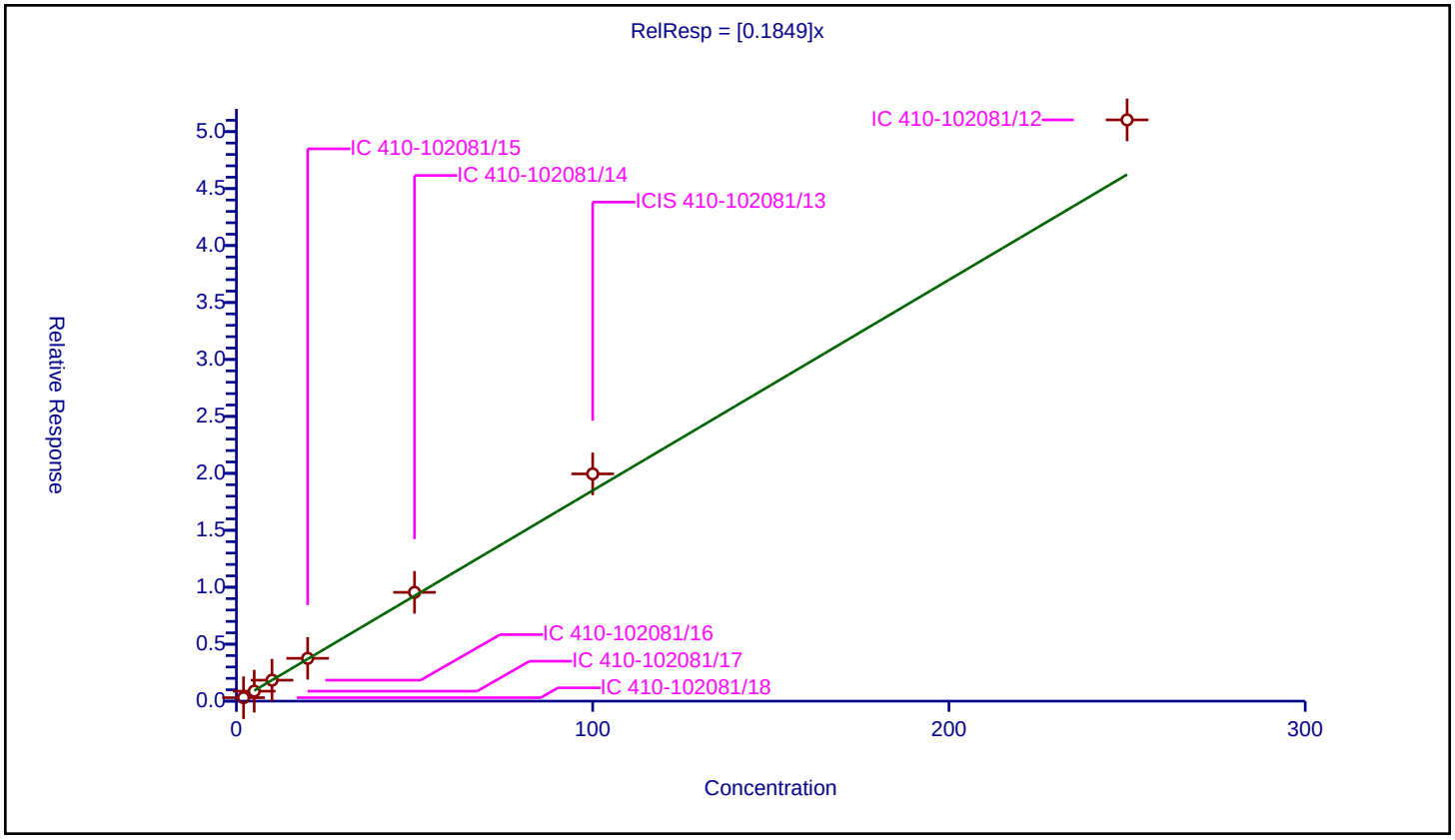
Curve Coefficients

Intercept:	0
Slope:	0.1849

Error Coefficients

Standard Error:	2090000
Relative Standard Error:	9.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	2.0	0.305216	10.0	866469.0	0.152608	Y
2	IC 410-102081/17	5.0	0.87529	10.0	872465.0	0.175058	Y
3	IC 410-102081/16	10.0	1.841965	10.0	873073.0	0.184197	Y
4	IC 410-102081/15	20.0	3.759881	10.0	891523.0	0.187994	Y
5	IC 410-102081/14	50.0	9.553381	10.0	894811.0	0.191068	Y
6	ICIS 410-102081/13	100.0	19.953807	10.0	910957.0	0.199538	Y
7	IC 410-102081/12	250.0	51.033038	10.0	918475.0	0.204132	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

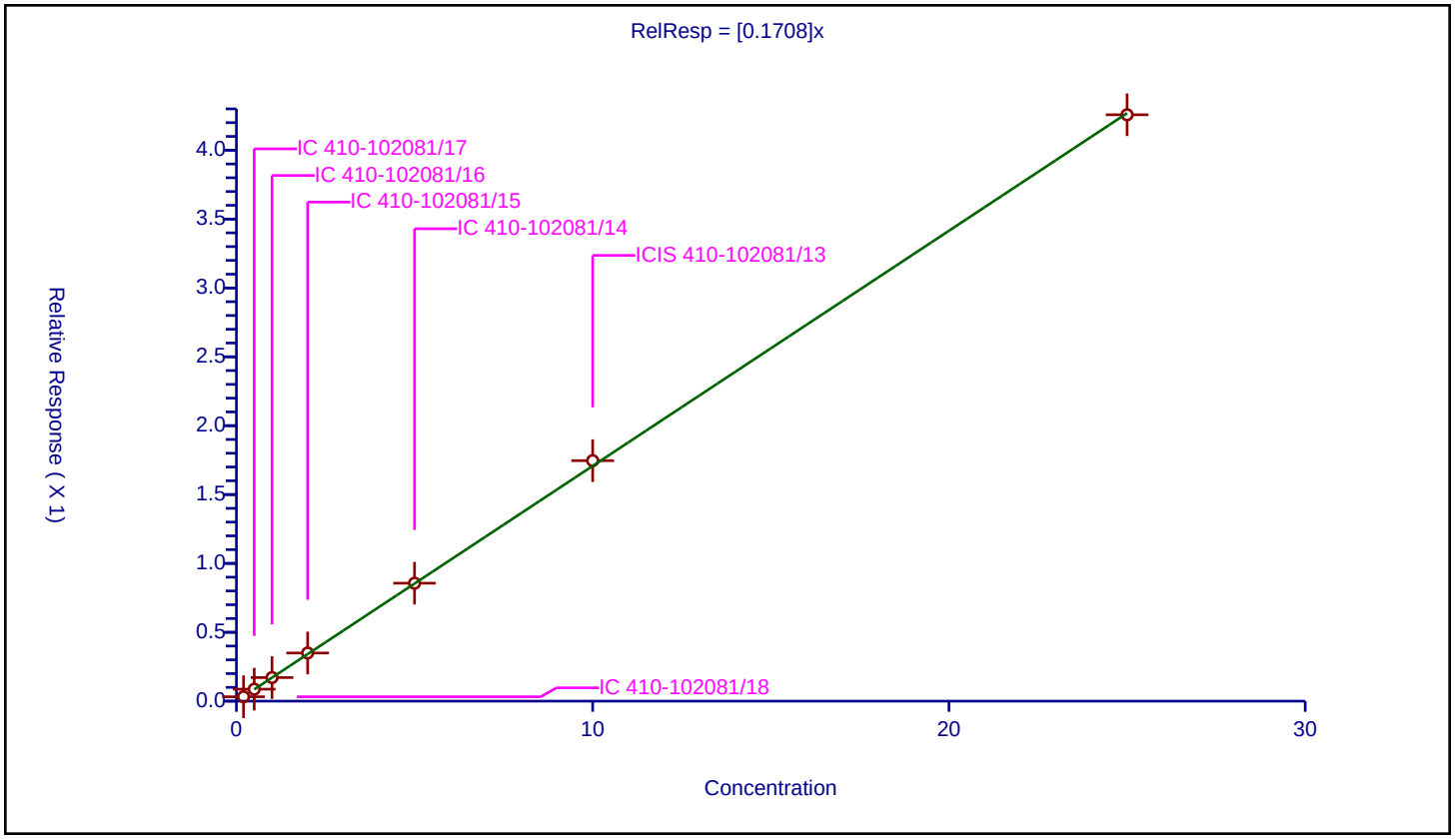
Curve Coefficients

Intercept:	0
Slope:	0.1708

Error Coefficients

Standard Error:	176000
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 410-102081/18	0.2	0.031877	10.0	866469.0	0.159383	Y
2	IC 410-102081/17	0.5	0.086869	10.0	872465.0	0.173738	Y
3	IC 410-102081/16	1.0	0.1712	10.0	873073.0	0.1712	Y
4	IC 410-102081/15	2.0	0.349582	10.0	891523.0	0.174791	Y
5	IC 410-102081/14	5.0	0.85627	10.0	894811.0	0.171254	Y
6	ICIS 410-102081/13	10.0	1.746109	10.0	910957.0	0.174611	Y
7	IC 410-102081/12	25.0	4.257176	10.0	918475.0	0.170287	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

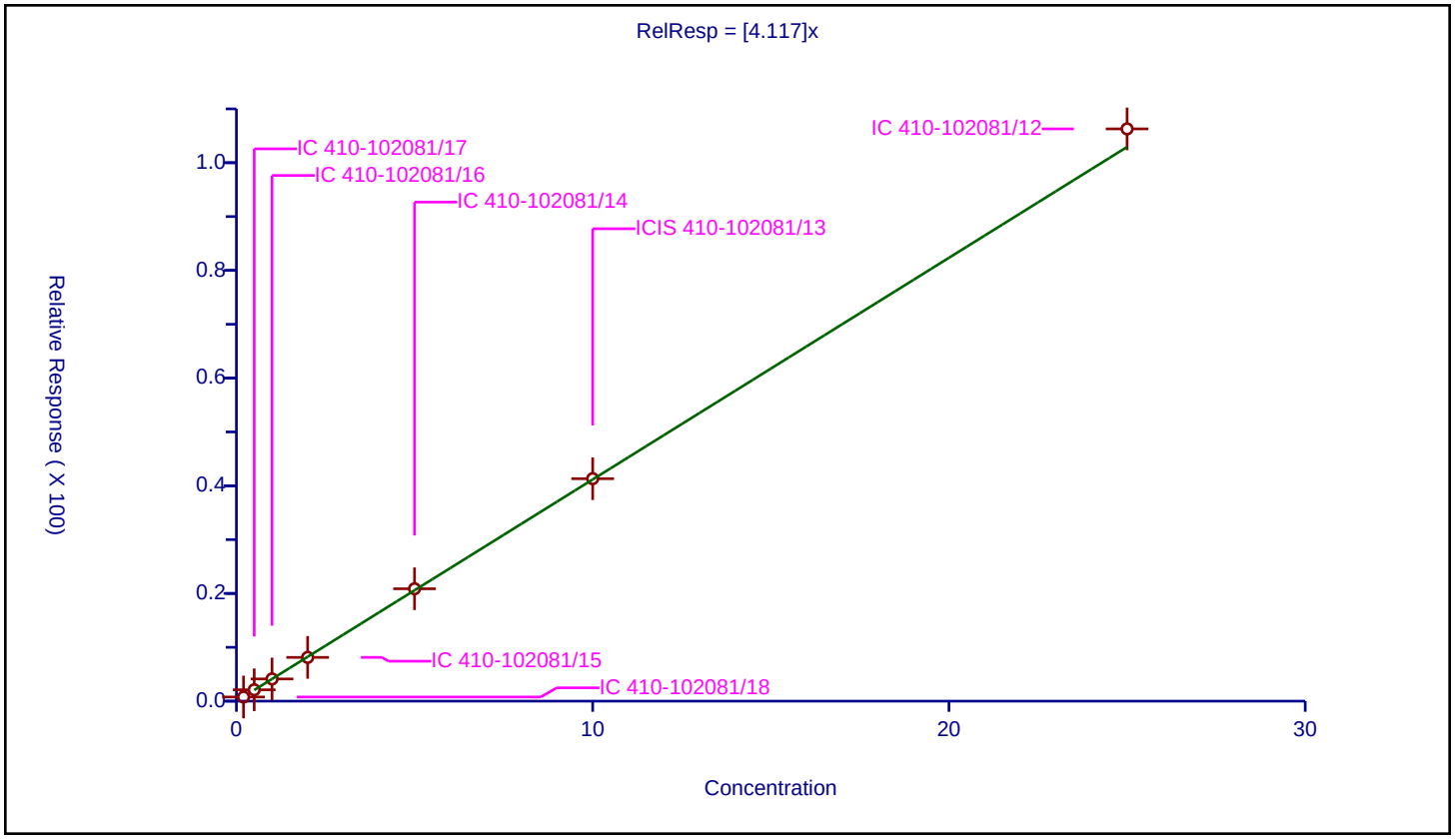
Curve Coefficients

Intercept:	0
Slope:	4.117

Error Coefficients

Standard Error:	4350000
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 410-102081/18	0.2	0.771176	10.0	866469.0	3.855879	Y
2	IC 410-102081/17	0.5	2.111156	10.0	872465.0	4.222313	Y
3	IC 410-102081/16	1.0	4.121225	10.0	873073.0	4.121225	Y
4	IC 410-102081/15	2.0	8.124636	10.0	891523.0	4.062318	Y
5	IC 410-102081/14	5.0	20.872374	10.0	894811.0	4.174475	Y
6	ICIS 410-102081/13	10.0	41.319151	10.0	910957.0	4.131915	Y
7	IC 410-102081/12	25.0	106.287095	10.0	918475.0	4.251484	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

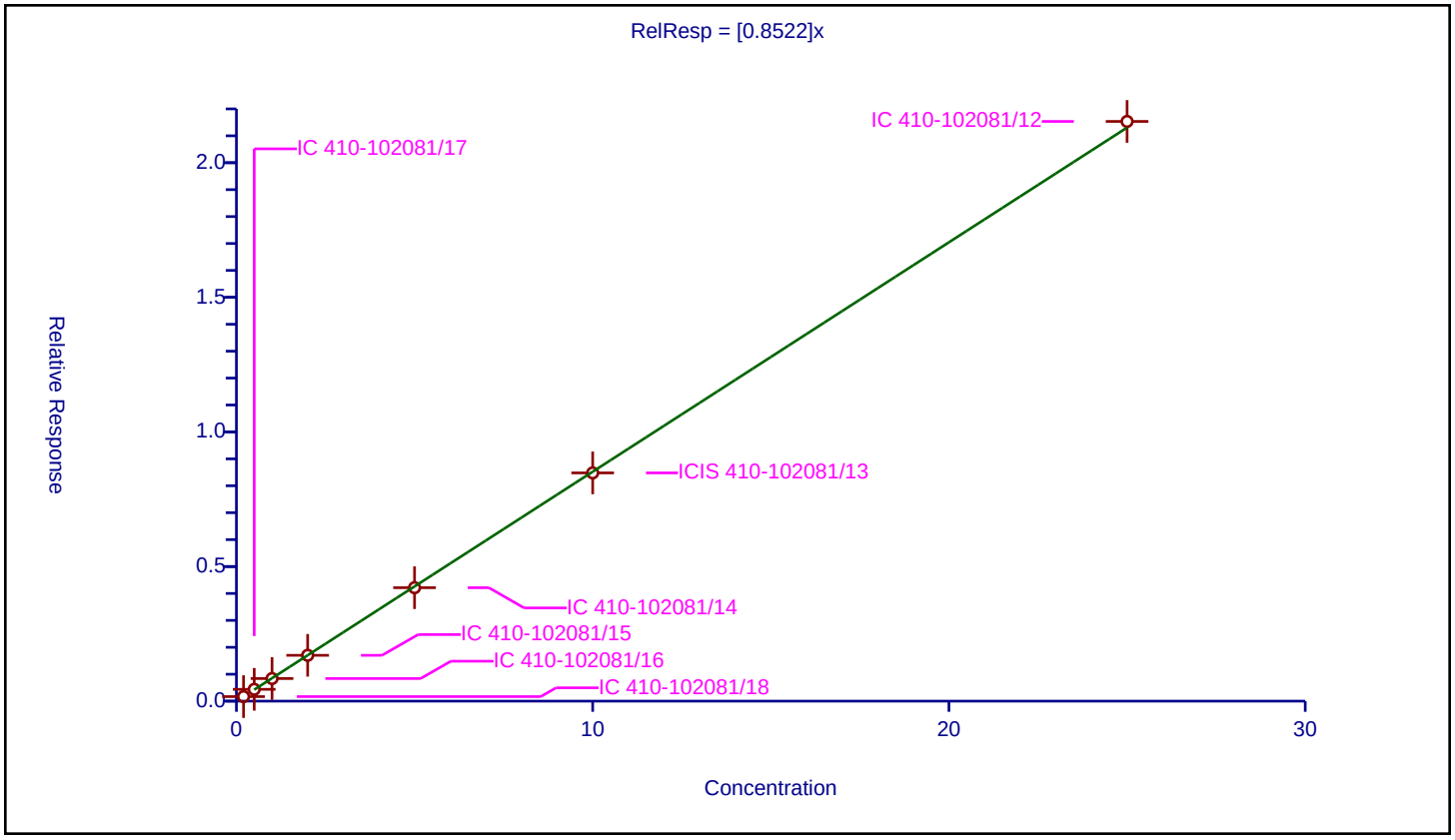
Curve Coefficients

Intercept:	0
Slope:	0.8522

Error Coefficients

Standard Error:	883000
Relative Standard Error:	1.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.169008	10.0	866469.0	0.845039	Y
2	IC 410-102081/17	0.5	0.438757	10.0	872465.0	0.877514	Y
3	IC 410-102081/16	1.0	0.839724	10.0	873073.0	0.839724	Y
4	IC 410-102081/15	2.0	1.702457	10.0	891523.0	0.851229	Y
5	IC 410-102081/14	5.0	4.213806	10.0	894811.0	0.842761	Y
6	ICIS 410-102081/13	10.0	8.478457	10.0	910957.0	0.847846	Y
7	IC 410-102081/12	25.0	21.533738	10.0	918475.0	0.86135	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

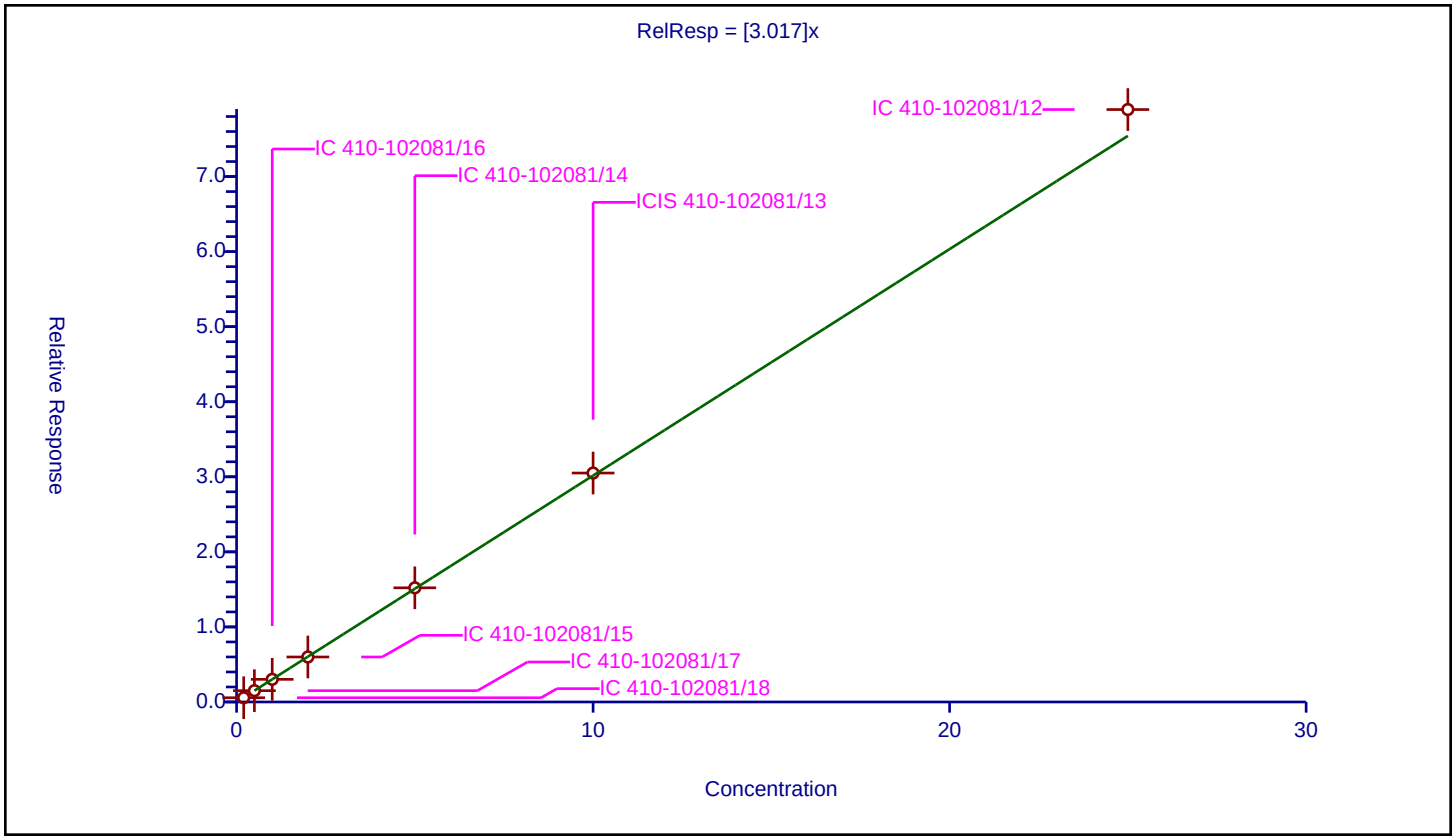
Curve Coefficients

Intercept:	0
Slope:	3.017

Error Coefficients

Standard Error:	3230000
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 410-102081/18	0.2	0.567649	10.0	866469.0	2.838243	Y
2	IC 410-102081/17	0.5	1.506765	10.0	872465.0	3.013531	Y
3	IC 410-102081/16	1.0	3.01898	10.0	873073.0	3.01898	Y
4	IC 410-102081/15	2.0	5.993878	10.0	891523.0	2.996939	Y
5	IC 410-102081/14	5.0	15.211067	10.0	894811.0	3.042213	Y
6	ICIS 410-102081/13	10.0	30.501066	10.0	910957.0	3.050107	Y
7	IC 410-102081/12	25.0	78.929116	10.0	918475.0	3.157165	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

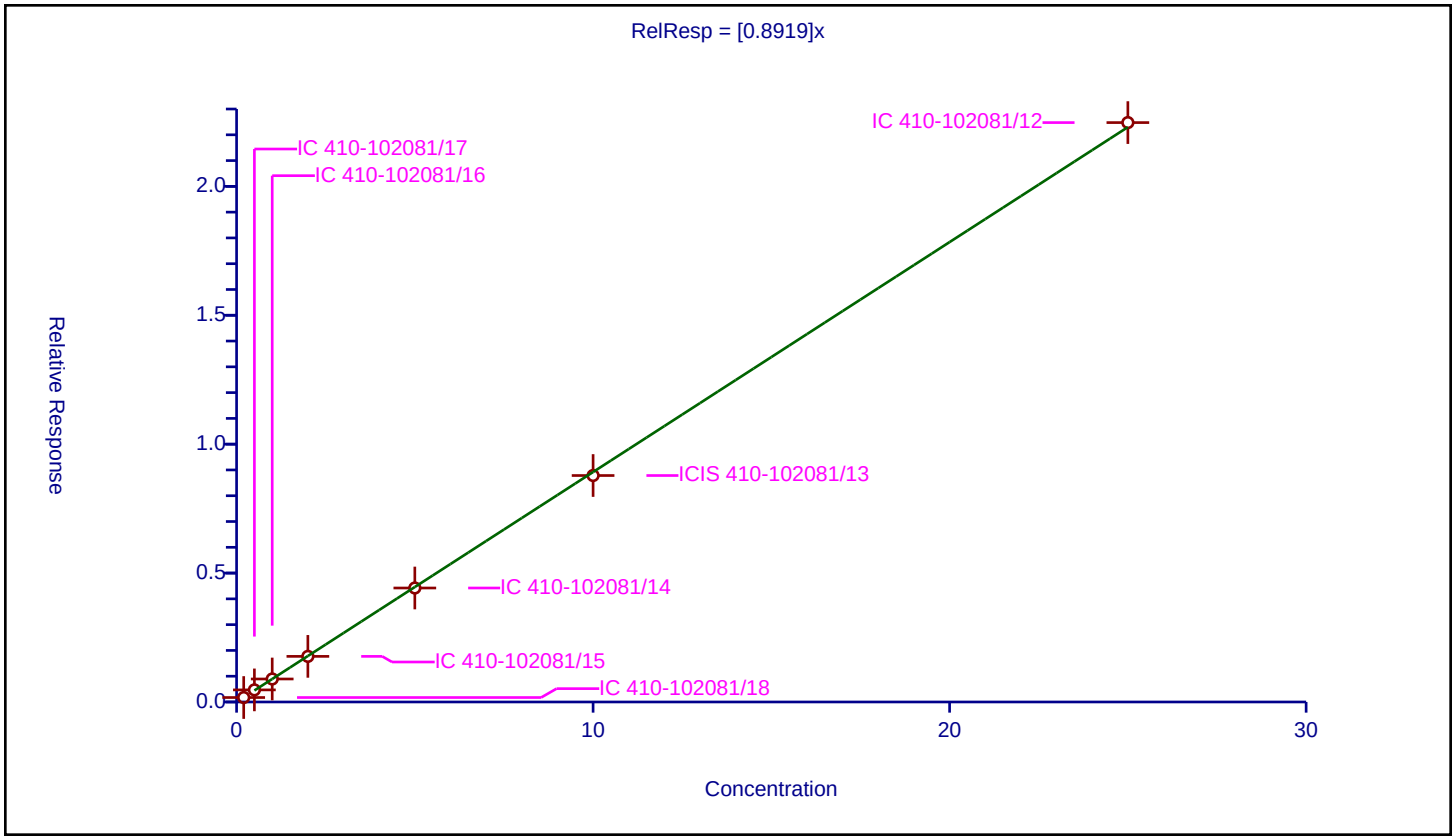
Curve Coefficients

Intercept:	0
Slope:	0.8919

Error Coefficients

Standard Error:	921000
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 410-102081/18	0.2	0.173393	10.0	866469.0	0.866967	Y
2	IC 410-102081/17	0.5	0.468764	10.0	872465.0	0.937528	Y
3	IC 410-102081/16	1.0	0.892434	10.0	873073.0	0.892434	Y
4	IC 410-102081/15	2.0	1.769702	10.0	891523.0	0.884851	Y
5	IC 410-102081/14	5.0	4.421325	10.0	894811.0	0.884265	Y
6	ICIS 410-102081/13	10.0	8.784169	10.0	910957.0	0.878417	Y
7	IC 410-102081/12	25.0	22.473099	10.0	918475.0	0.898924	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

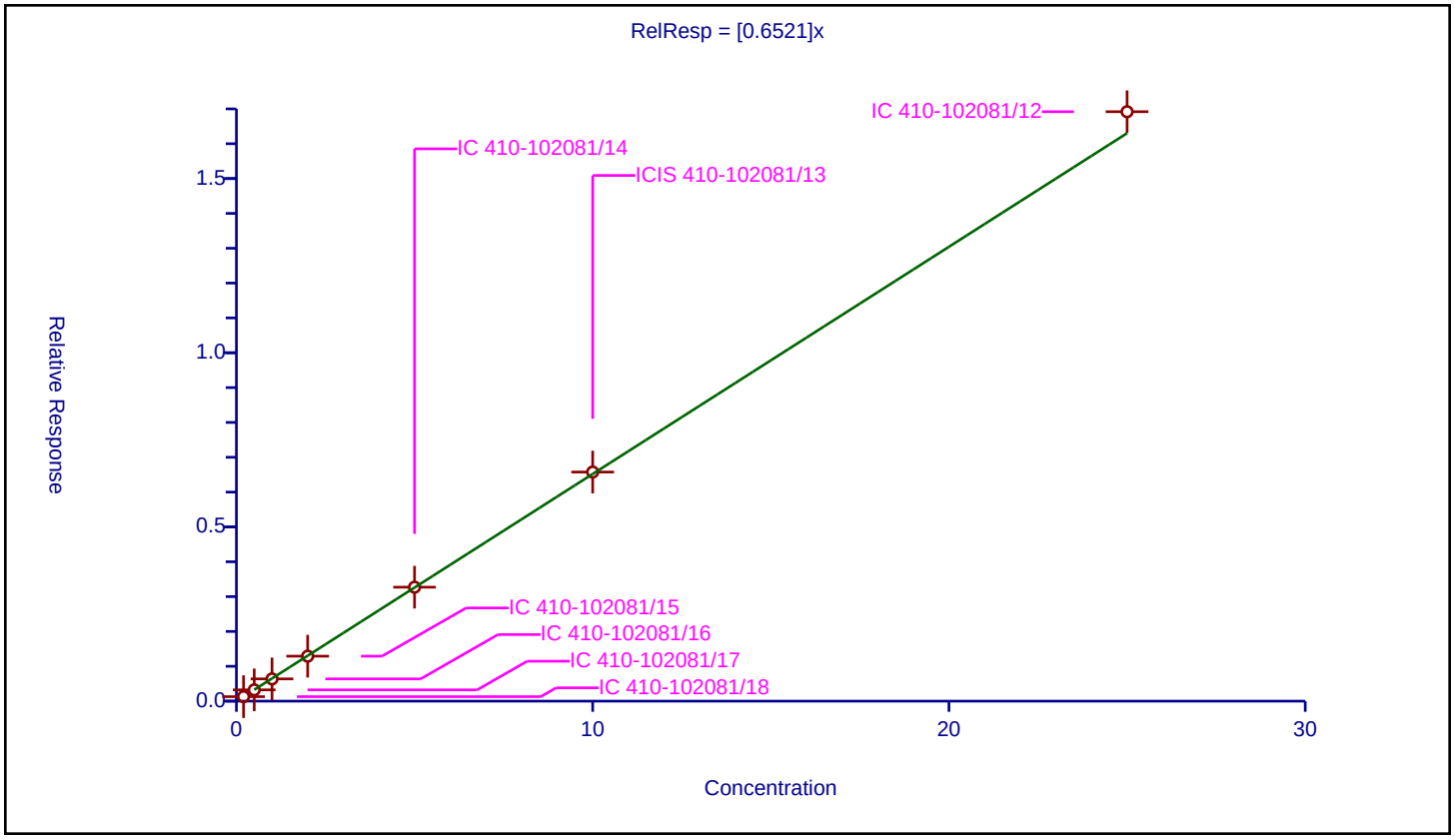
Curve Coefficients

Intercept:	0
Slope:	0.6521

Error Coefficients

Standard Error:	692000
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.12881	10.0	866469.0	0.644051	Y
2	IC 410-102081/17	0.5	0.323921	10.0	872465.0	0.647843	Y
3	IC 410-102081/16	1.0	0.638744	10.0	873073.0	0.638744	Y
4	IC 410-102081/15	2.0	1.290724	10.0	891523.0	0.645362	Y
5	IC 410-102081/14	5.0	3.270881	10.0	894811.0	0.654176	Y
6	ICIS 410-102081/13	10.0	6.576128	10.0	910957.0	0.657613	Y
7	IC 410-102081/12	25.0	16.918751	10.0	918475.0	0.67675	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

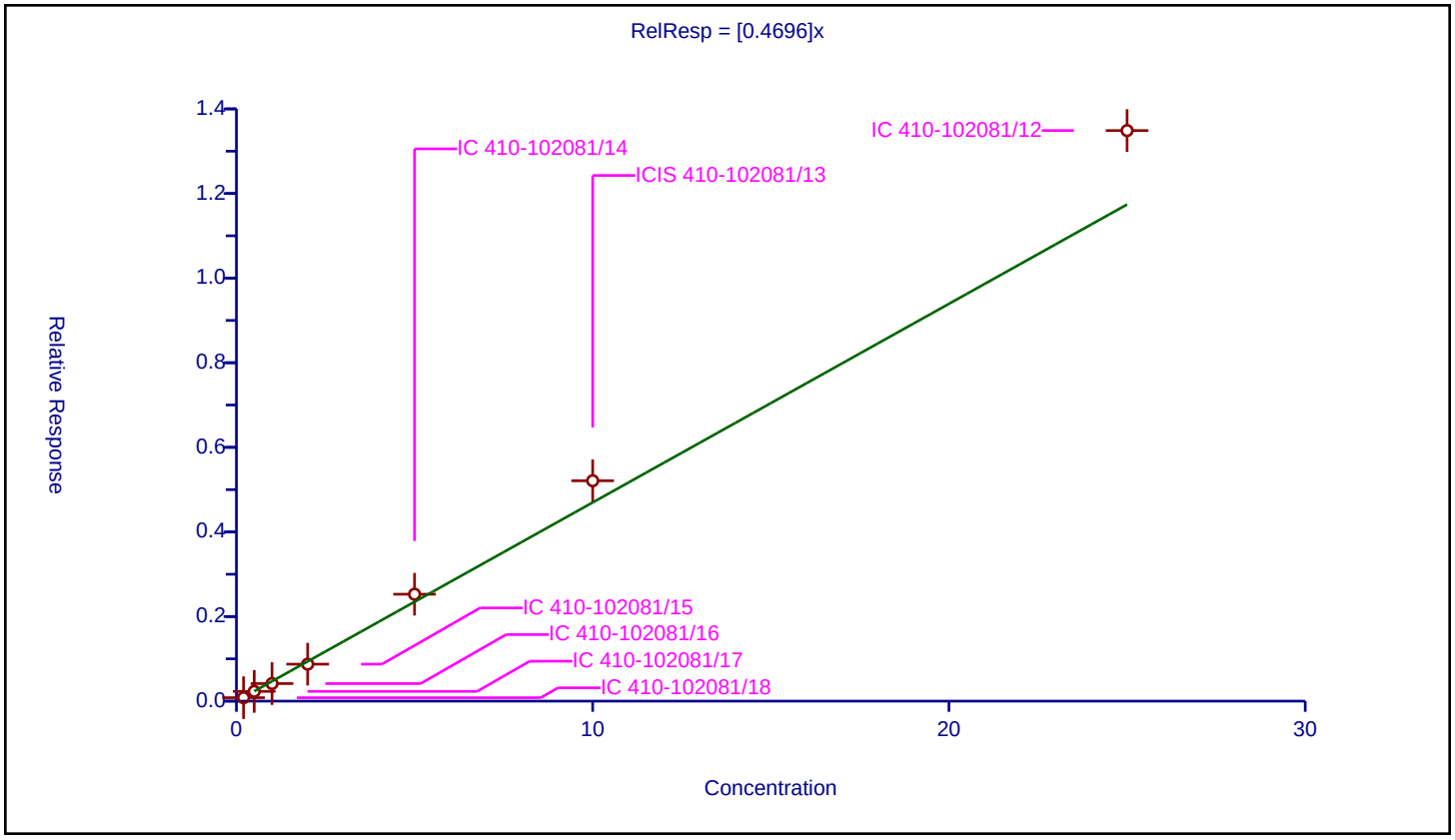
Curve Coefficients

Intercept:	0
Slope:	0.4696

Error Coefficients

Standard Error:	551000
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 410-102081/18	0.2	0.081422	10.0	866469.0	0.407112	Y
2	IC 410-102081/17	0.5	0.230875	10.0	872465.0	0.461749	Y
3	IC 410-102081/16	1.0	0.415441	10.0	873073.0	0.415441	Y
4	IC 410-102081/15	2.0	0.874021	10.0	891523.0	0.437011	Y
5	IC 410-102081/14	5.0	2.527584	10.0	894811.0	0.505517	Y
6	ICIS 410-102081/13	10.0	5.209686	10.0	910957.0	0.520969	Y
7	IC 410-102081/12	25.0	13.487248	10.0	918475.0	0.53949	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

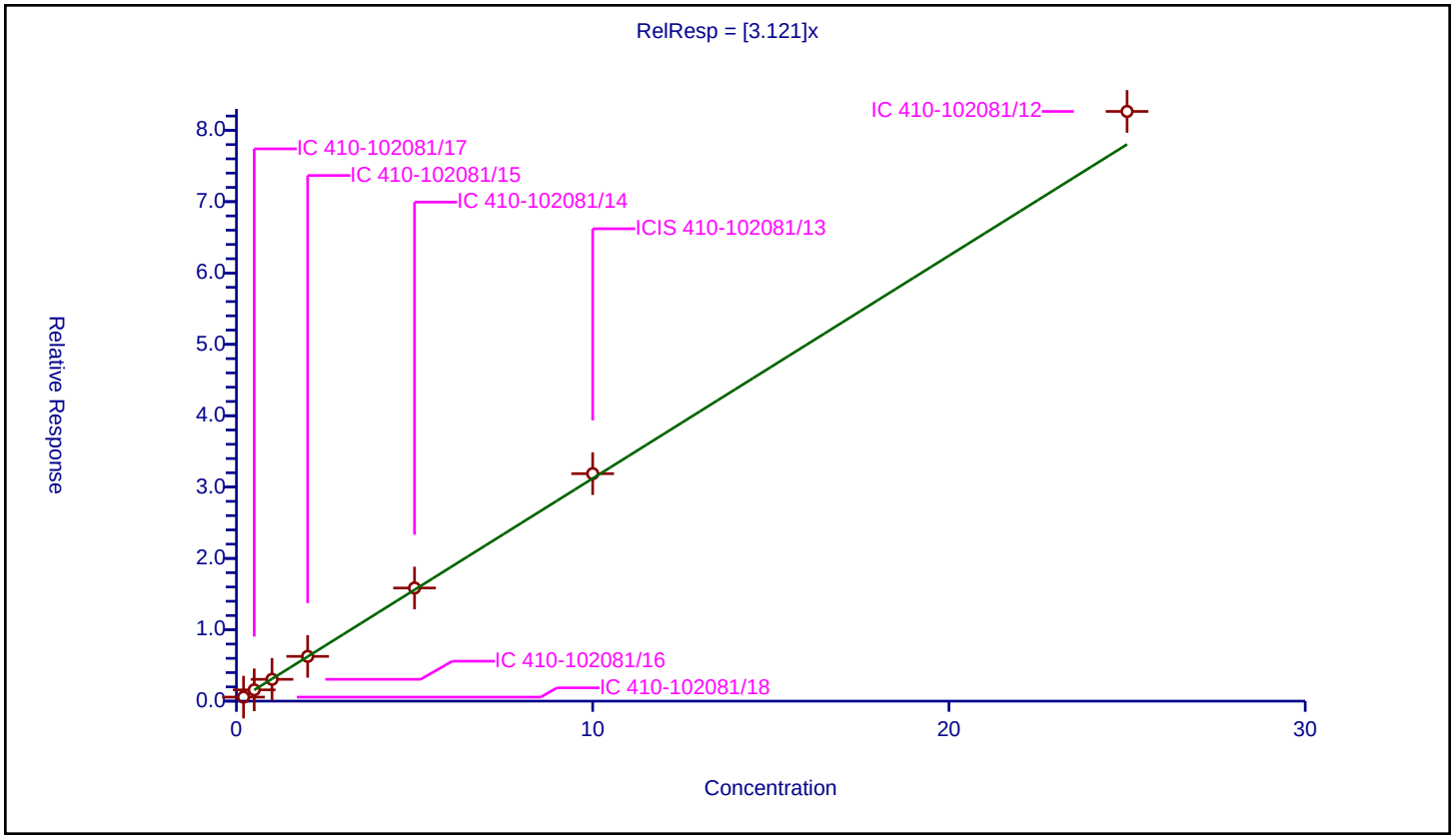
Curve Coefficients

Intercept:	0
Slope:	3.121

Error Coefficients

Standard Error:	3380000
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 410-102081/18	0.2	0.565571	10.0	866469.0	2.827857	Y
2	IC 410-102081/17	0.5	1.580018	10.0	872465.0	3.160035	Y
3	IC 410-102081/16	1.0	3.05806	10.0	873073.0	3.05806	Y
4	IC 410-102081/15	2.0	6.273085	10.0	891523.0	3.136543	Y
5	IC 410-102081/14	5.0	15.85584	10.0	894811.0	3.171168	Y
6	ICIS 410-102081/13	10.0	31.882185	10.0	910957.0	3.188219	Y
7	IC 410-102081/12	25.0	82.646354	10.0	918475.0	3.305854	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

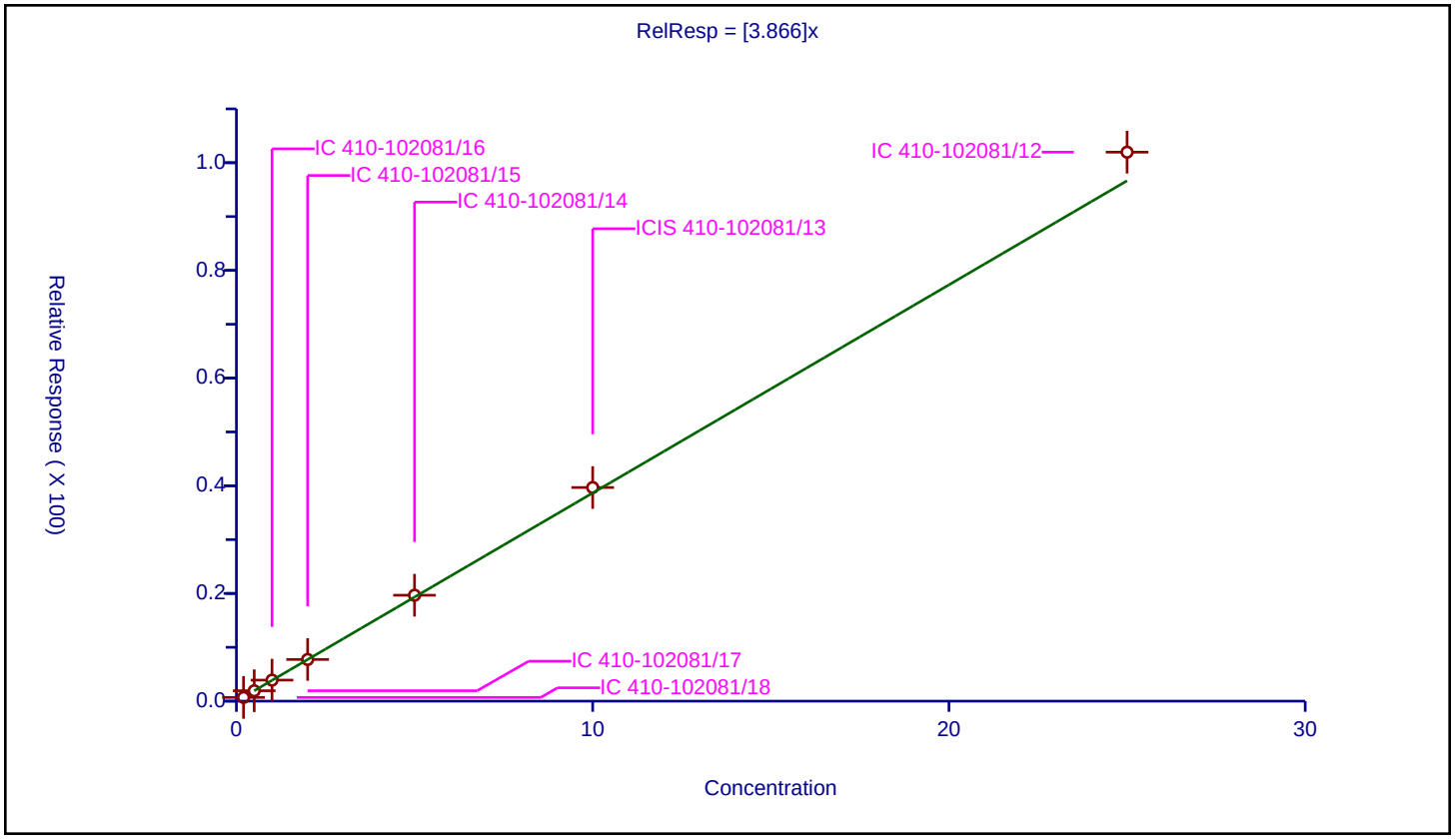
Curve Coefficients

Intercept:	0
Slope:	3.866

Error Coefficients

Standard Error:	4170000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.690088	10.0	866469.0	3.450441	Y
2	IC 410-102081/17	0.5	1.929235	10.0	872465.0	3.85847	Y
3	IC 410-102081/16	1.0	3.905366	10.0	873073.0	3.905366	Y
4	IC 410-102081/15	2.0	7.738634	10.0	891523.0	3.869317	Y
5	IC 410-102081/14	5.0	19.66879	10.0	894811.0	3.933758	Y
6	ICIS 410-102081/13	10.0	39.67364	10.0	910957.0	3.967364	Y
7	IC 410-102081/12	25.0	101.960456	10.0	918475.0	4.078418	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

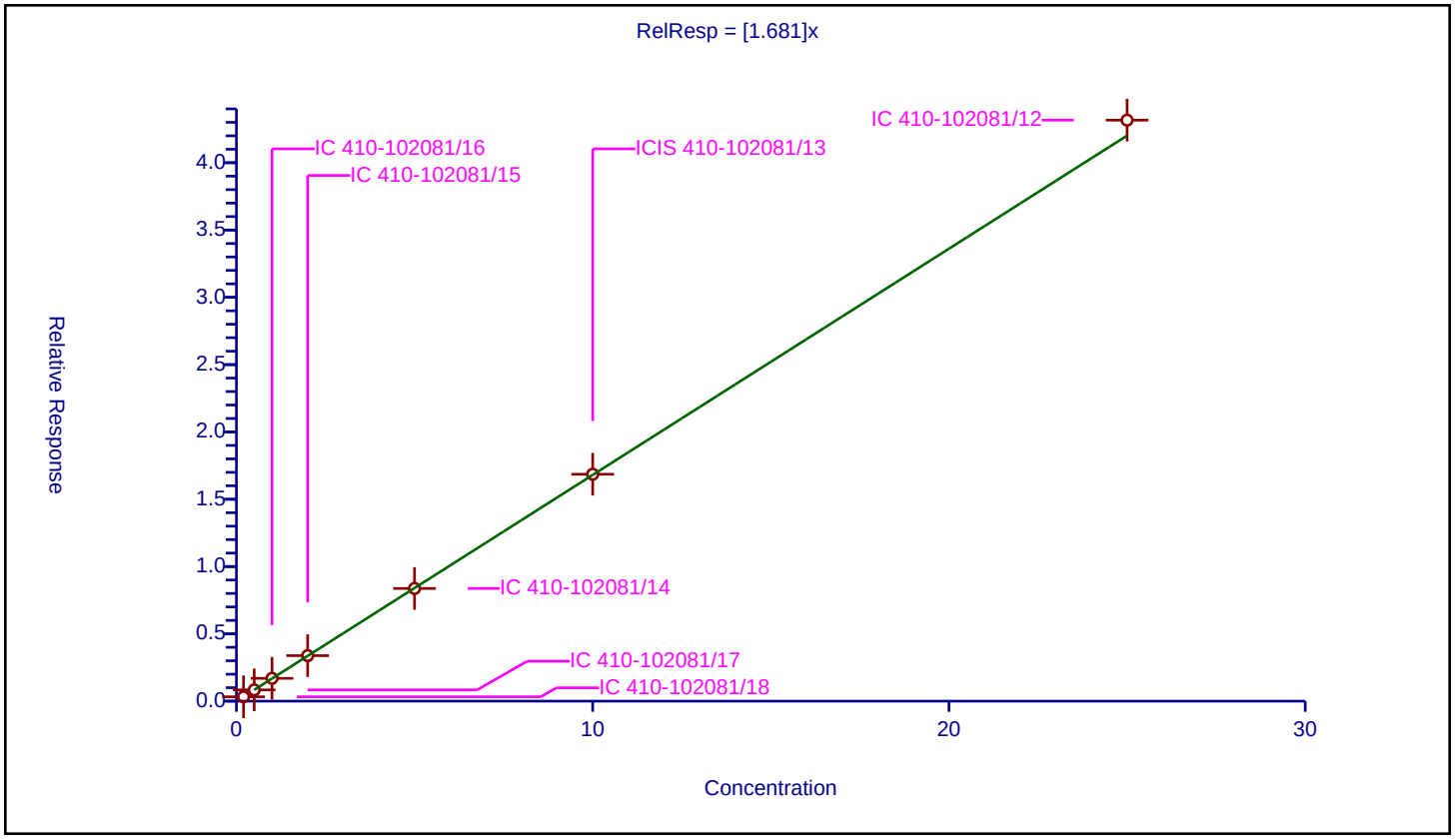
Curve Coefficients

Intercept:	0
Slope:	1.681

Error Coefficients

Standard Error:	1770000
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.324028	10.0	866469.0	1.620139	Y
2	IC 410-102081/17	0.5	0.835896	10.0	872465.0	1.671792	Y
3	IC 410-102081/16	1.0	1.69483	10.0	873073.0	1.69483	Y
4	IC 410-102081/15	2.0	3.380451	10.0	891523.0	1.690226	Y
5	IC 410-102081/14	5.0	8.371567	10.0	894811.0	1.674313	Y
6	ICIS 410-102081/13	10.0	16.85871	10.0	910957.0	1.685871	Y
7	IC 410-102081/12	25.0	43.162492	10.0	918475.0	1.7265	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

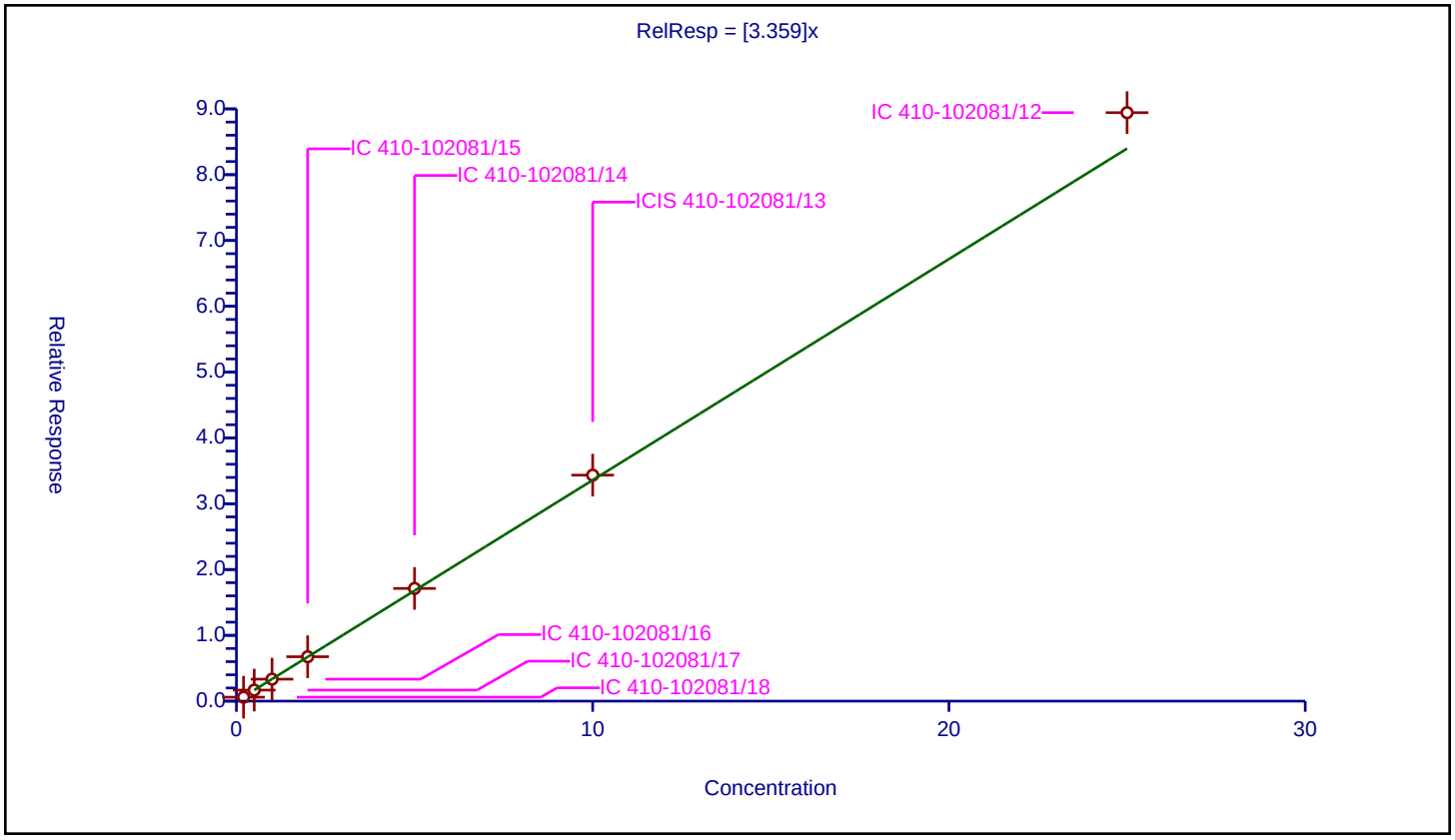
Curve Coefficients

Intercept:	0
Slope:	3.359

Error Coefficients

Standard Error:	3650000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.600483	10.0	866469.0	3.002416	Y
2	IC 410-102081/17	0.5	1.678463	10.0	872465.0	3.356925	Y
3	IC 410-102081/16	1.0	3.341576	10.0	873073.0	3.341576	Y
4	IC 410-102081/15	2.0	6.749349	10.0	891523.0	3.374675	Y
5	IC 410-102081/14	5.0	17.125996	10.0	894811.0	3.425199	Y
6	ICIS 410-102081/13	10.0	34.342971	10.0	910957.0	3.434297	Y
7	IC 410-102081/12	25.0	89.430044	10.0	918475.0	3.577202	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

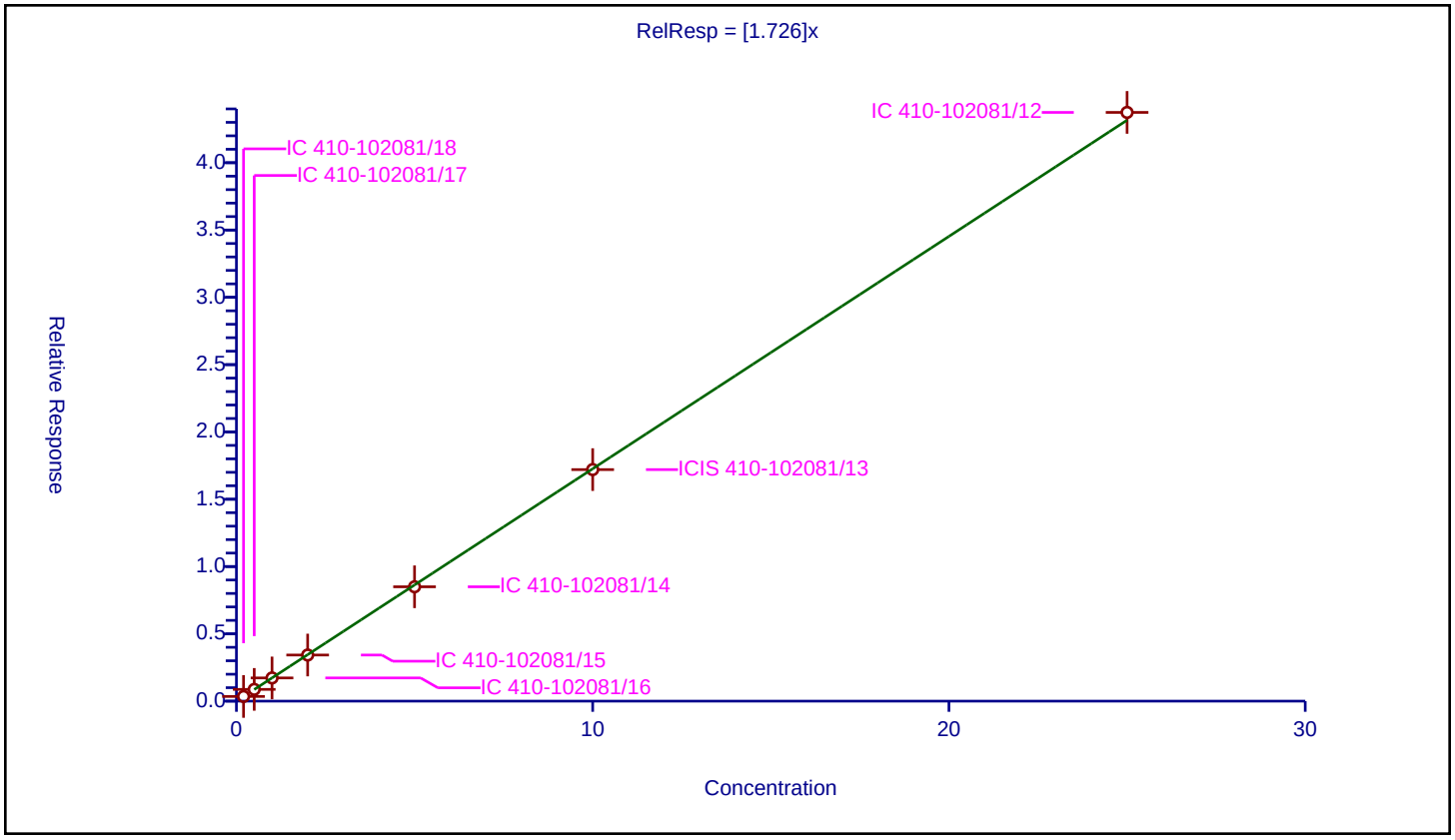
Curve Coefficients

Intercept:	0
Slope:	1.726

Error Coefficients

Standard Error:	1790000
Relative Standard Error:	1.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.346383	10.0	866469.0	1.731914	Y
2	IC 410-102081/17	0.5	0.87364	10.0	872465.0	1.747279	Y
3	IC 410-102081/16	1.0	1.724071	10.0	873073.0	1.724071	Y
4	IC 410-102081/15	2.0	3.425621	10.0	891523.0	1.712811	Y
5	IC 410-102081/14	5.0	8.496141	10.0	894811.0	1.699228	Y
6	ICIS 410-102081/13	10.0	17.20225	10.0	910957.0	1.720225	Y
7	IC 410-102081/12	25.0	43.738501	10.0	918475.0	1.74954	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

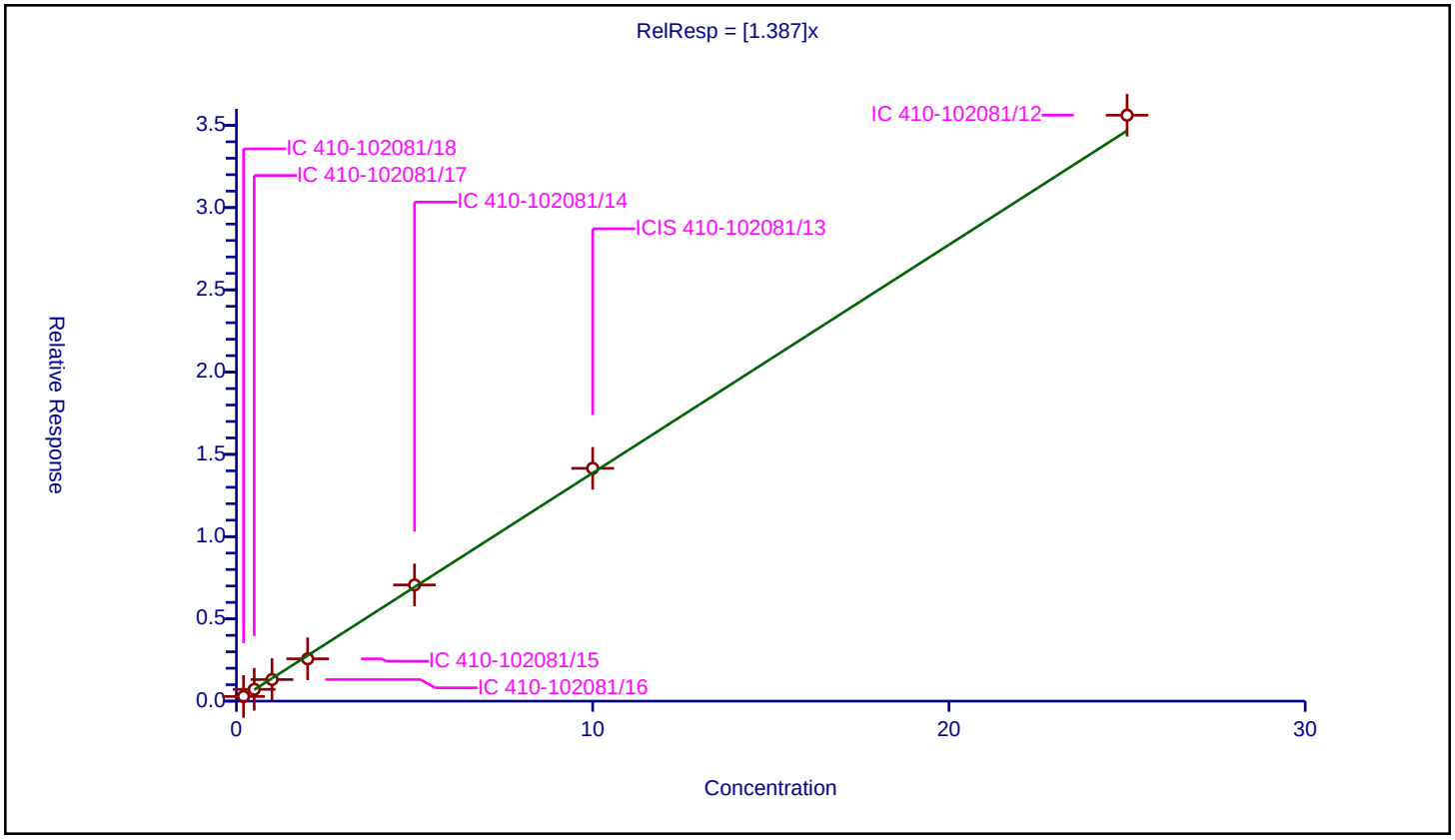
Curve Coefficients

Intercept:	0
Slope:	1.387

Error Coefficients

Standard Error:	1460000
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 410-102081/18	0.2	0.284199	10.0	866469.0	1.420997	Y
2	IC 410-102081/17	0.5	0.717897	10.0	872465.0	1.435794	Y
3	IC 410-102081/16	1.0	1.312846	10.0	873073.0	1.312846	Y
4	IC 410-102081/15	2.0	2.573484	10.0	891523.0	1.286742	Y
5	IC 410-102081/14	5.0	7.064263	10.0	894811.0	1.412853	Y
6	ICIS 410-102081/13	10.0	14.152765	10.0	910957.0	1.415276	Y
7	IC 410-102081/12	25.0	35.615548	10.0	918475.0	1.424622	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

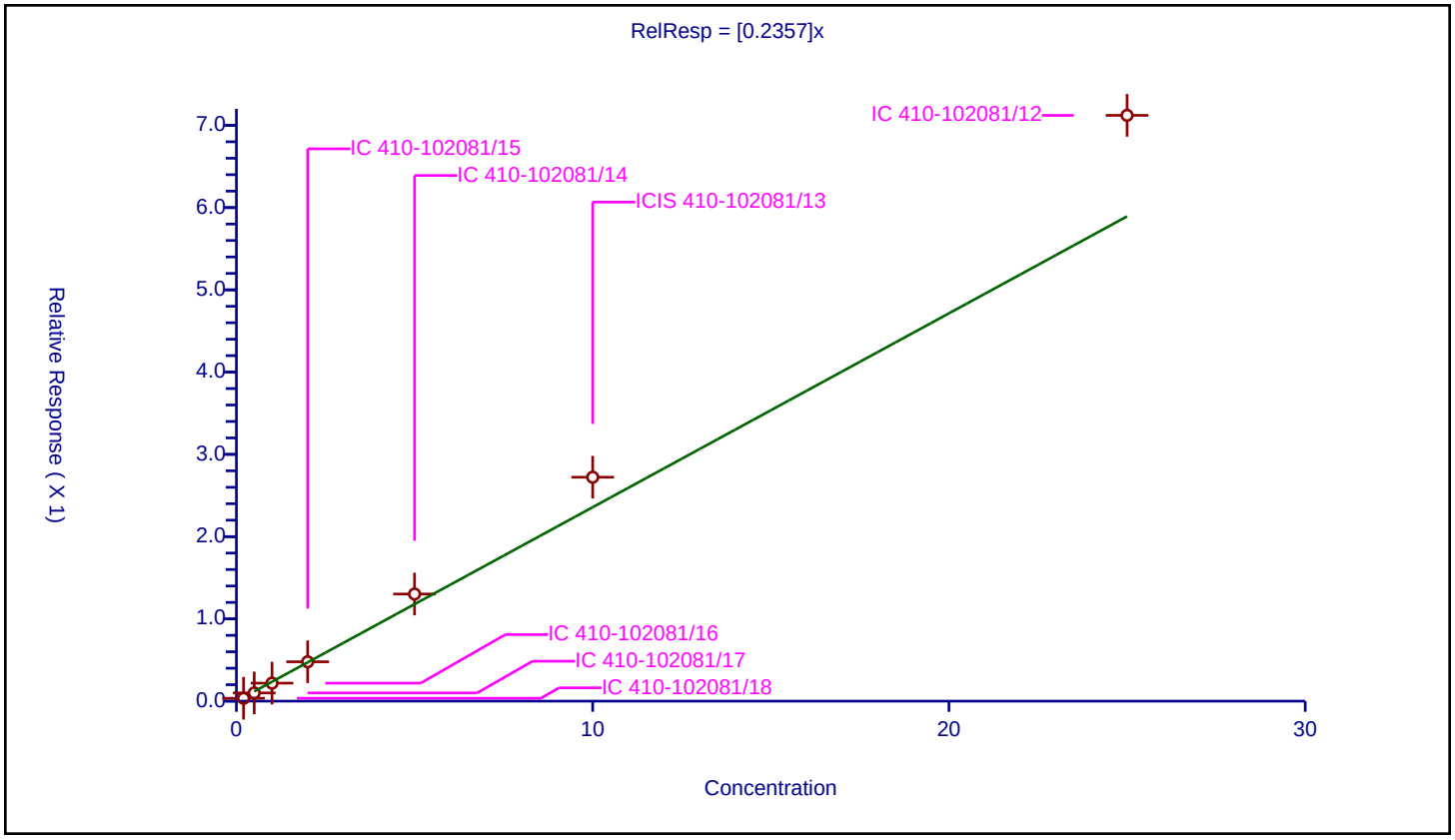
Curve Coefficients

Intercept:	0
Slope:	0.2357

Error Coefficients

Standard Error:	290000
Relative Standard Error:	17.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.968

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.0349	10.0	866469.0	0.174501	Y
2	IC 410-102081/17	0.5	0.099855	10.0	872465.0	0.19971	Y
3	IC 410-102081/16	1.0	0.219134	10.0	873073.0	0.219134	Y
4	IC 410-102081/15	2.0	0.478406	10.0	891523.0	0.239203	Y
5	IC 410-102081/14	5.0	1.302275	10.0	894811.0	0.260455	Y
6	ICIS 410-102081/13	10.0	2.722401	10.0	910957.0	0.27224	Y
7	IC 410-102081/12	25.0	7.12125	10.0	918475.0	0.28485	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

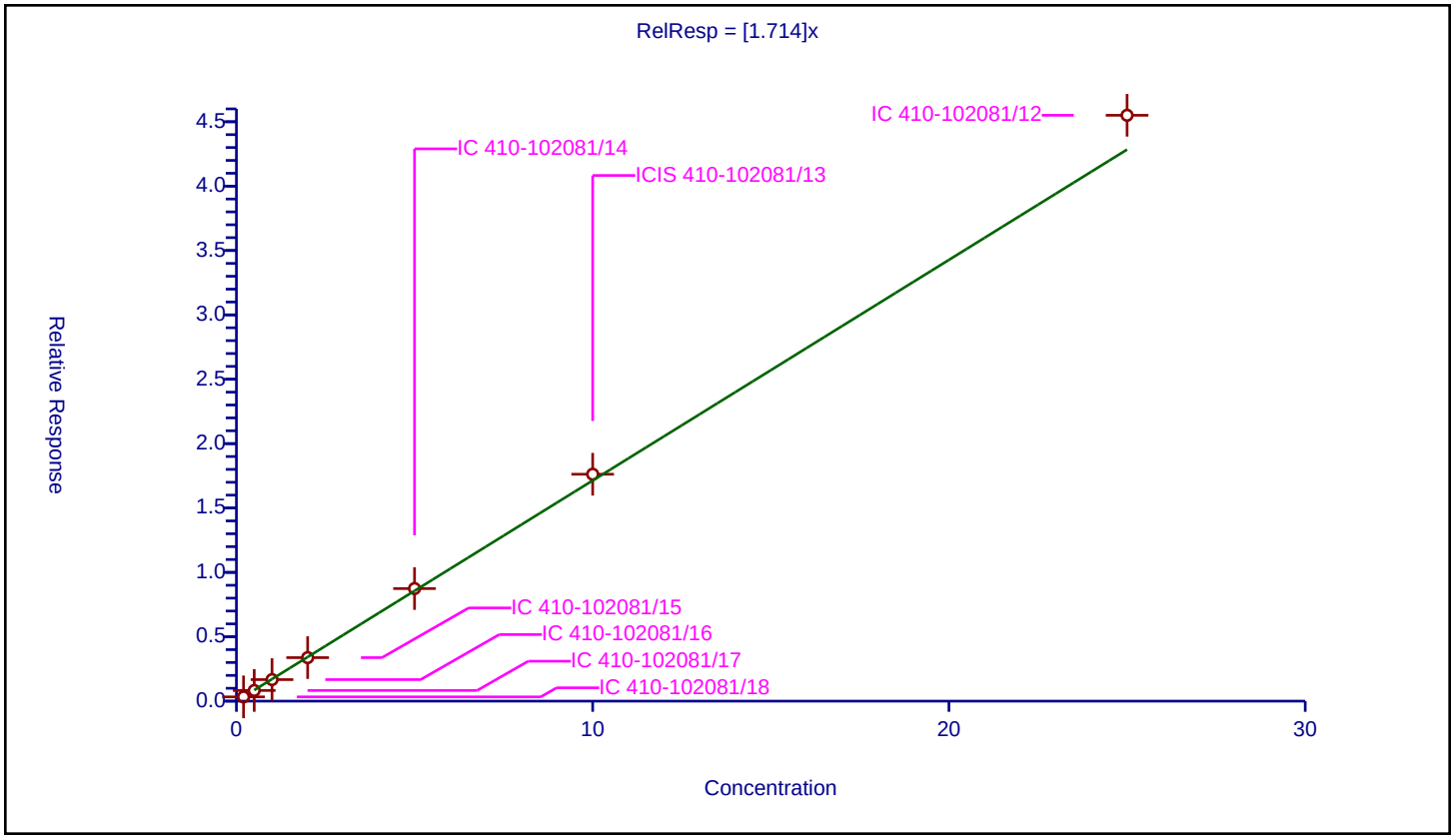
Curve Coefficients

Intercept:	0
Slope:	1.714

Error Coefficients

Standard Error:	1860000
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 410-102081/18	0.2	0.329129	10.0	866469.0	1.645645	Y
2	IC 410-102081/17	0.5	0.828285	10.0	872465.0	1.656571	Y
3	IC 410-102081/16	1.0	1.672449	10.0	873073.0	1.672449	Y
4	IC 410-102081/15	2.0	3.379049	10.0	891523.0	1.689525	Y
5	IC 410-102081/14	5.0	8.743601	10.0	894811.0	1.74872	Y
6	ICIS 410-102081/13	10.0	17.624641	10.0	910957.0	1.762464	Y
7	IC 410-102081/12	25.0	45.503078	10.0	918475.0	1.820123	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

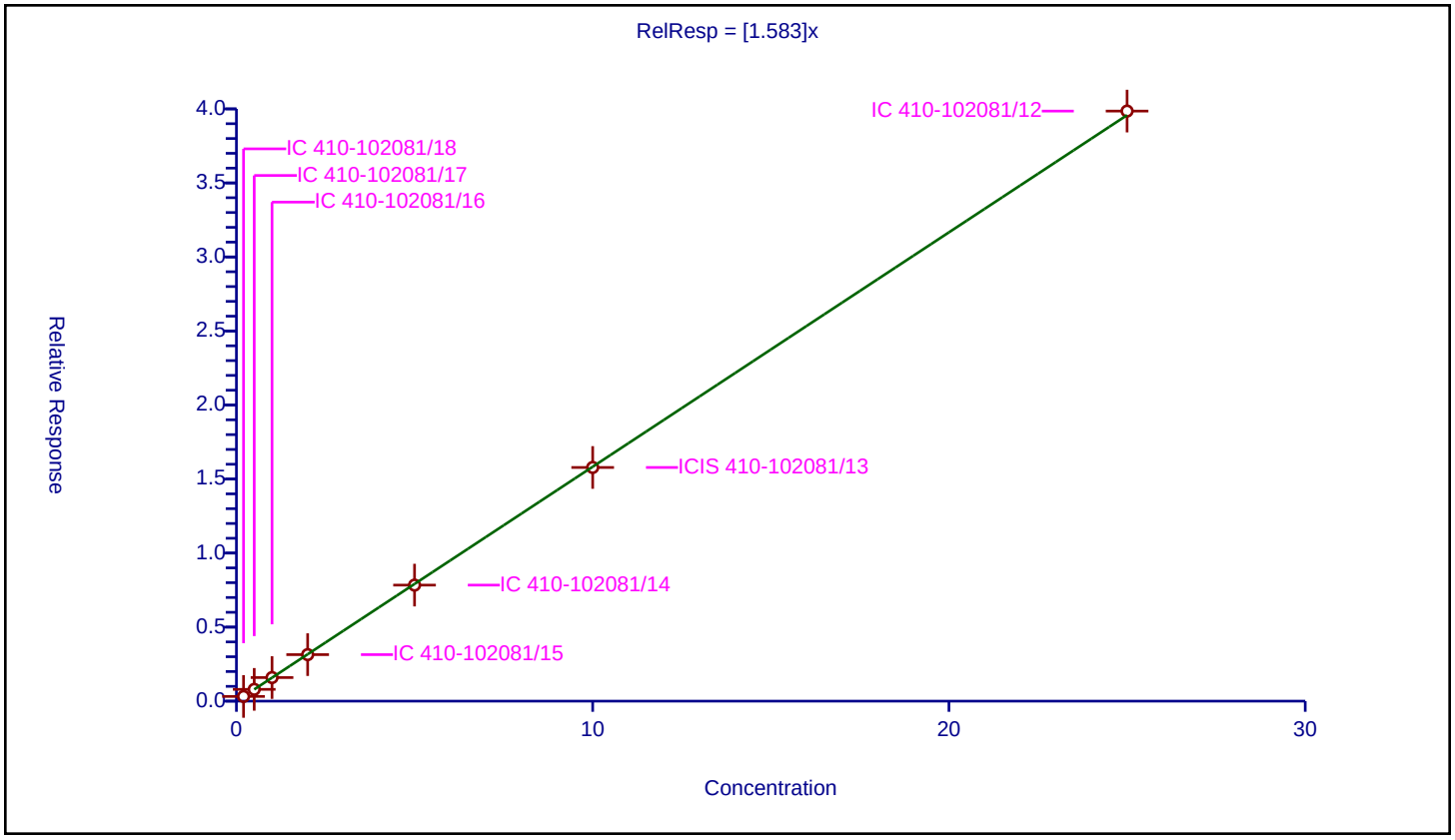
Curve Coefficients

Intercept:	0
Slope:	1.583

Error Coefficients

Standard Error:	1640000
Relative Standard Error:	0.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.317288	10.0	866469.0	1.586439	Y
2	IC 410-102081/17	0.5	0.795803	10.0	872465.0	1.591605	Y
3	IC 410-102081/16	1.0	1.593406	10.0	873073.0	1.593406	Y
4	IC 410-102081/15	2.0	3.141153	10.0	891523.0	1.570576	Y
5	IC 410-102081/14	5.0	7.837163	10.0	894811.0	1.567433	Y
6	ICIS 410-102081/13	10.0	15.78181	10.0	910957.0	1.578181	Y
7	IC 410-102081/12	25.0	39.852418	10.0	918475.0	1.594097	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

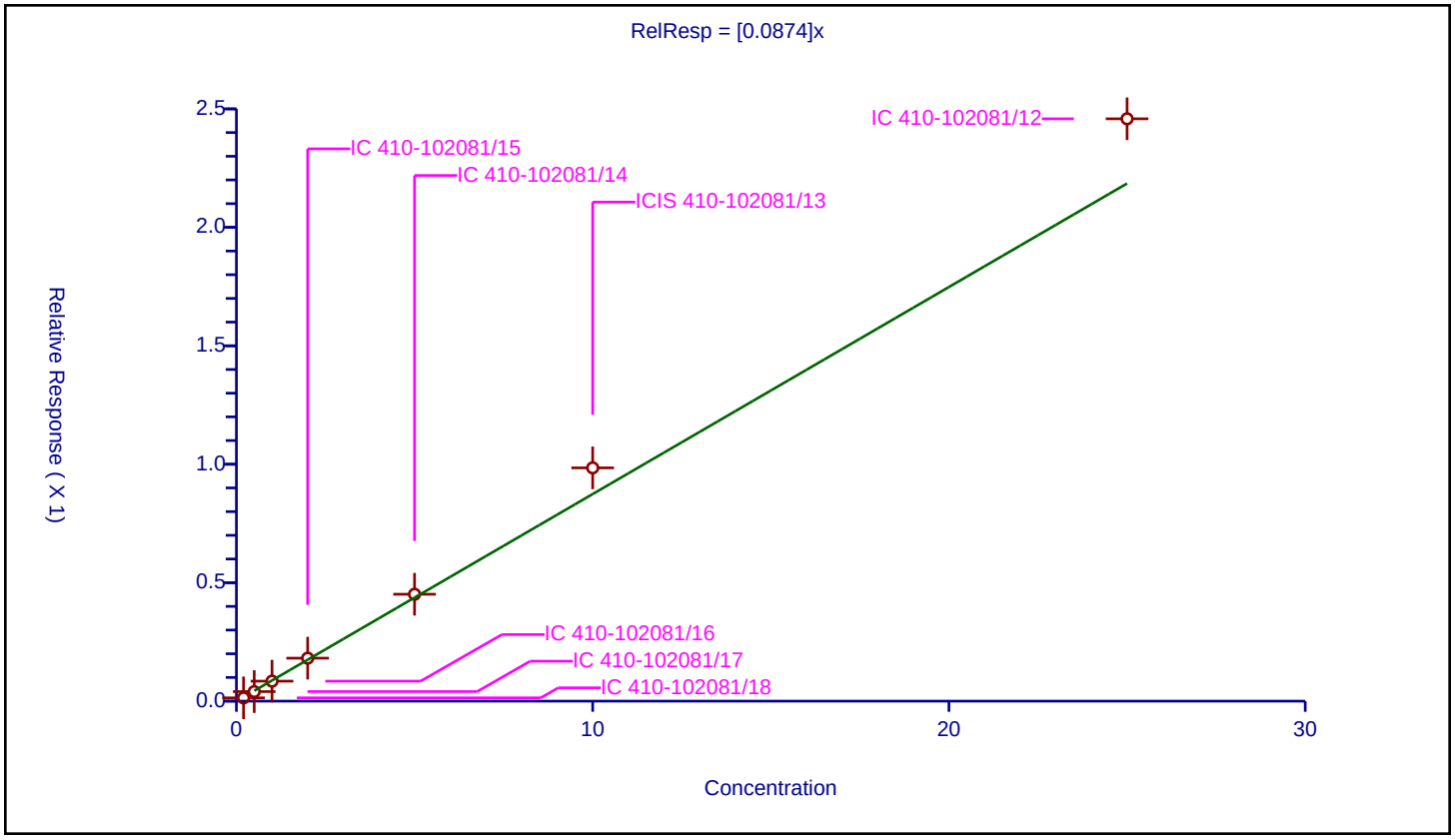
Curve Coefficients

Intercept:	0
Slope:	0.0874

Error Coefficients

Standard Error:	101000
Relative Standard Error:	11.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.013838	10.0	866469.0	0.069189	Y
2	IC 410-102081/17	0.5	0.040277	10.0	872465.0	0.080553	Y
3	IC 410-102081/16	1.0	0.084357	10.0	873073.0	0.084357	Y
4	IC 410-102081/15	2.0	0.181375	10.0	891523.0	0.090688	Y
5	IC 410-102081/14	5.0	0.451235	10.0	894811.0	0.090247	Y
6	ICIS 410-102081/13	10.0	0.984745	10.0	910957.0	0.098474	Y
7	IC 410-102081/12	25.0	2.45814	10.0	918475.0	0.098326	Y



Calibration / 1,3,5-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

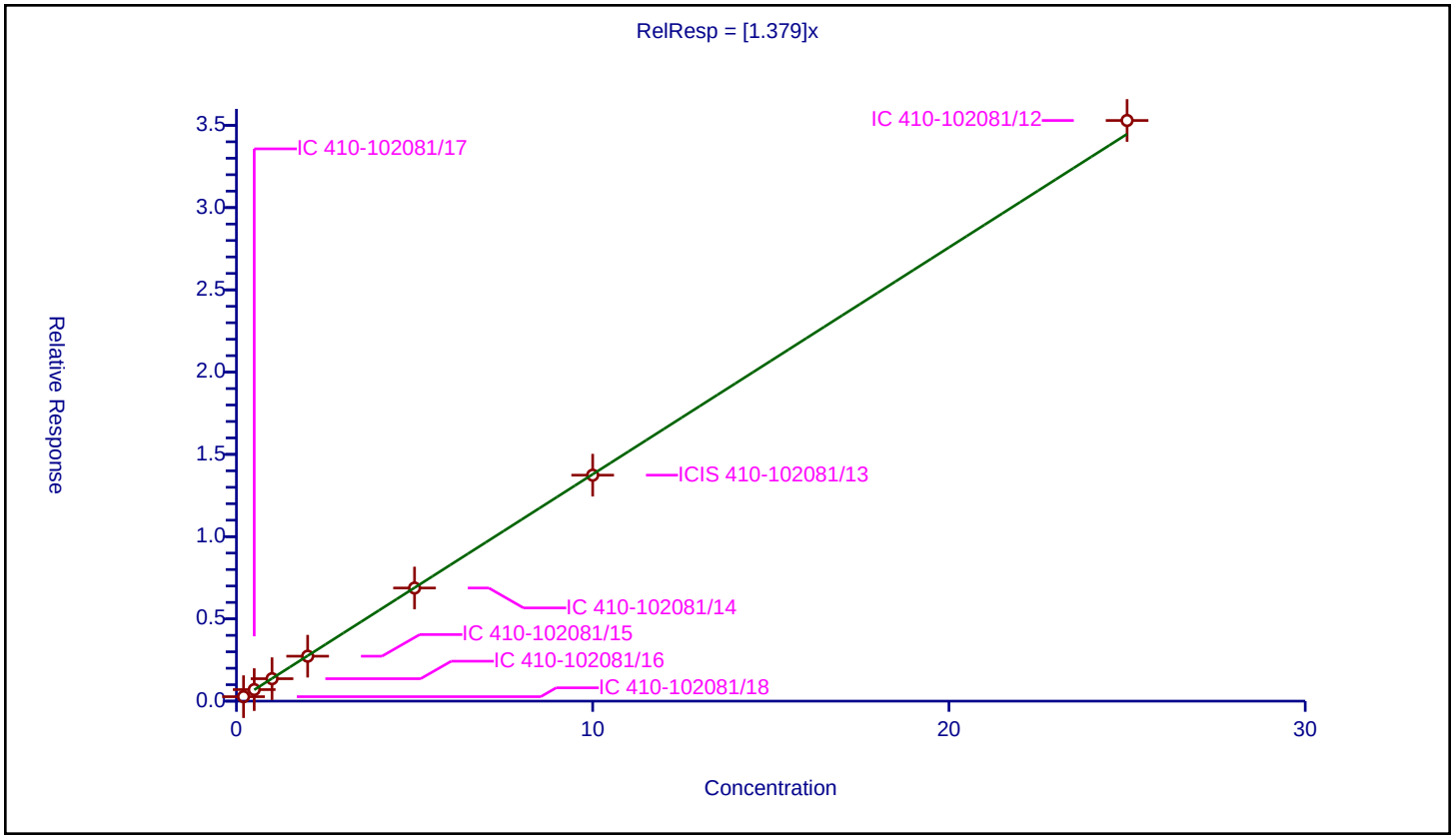
Curve Coefficients

Intercept:	0
Slope:	1.379

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	1.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.2717	10.0	866469.0	1.358502	Y
2	IC 410-102081/17	0.5	0.701644	10.0	872465.0	1.403288	Y
3	IC 410-102081/16	1.0	1.36346	10.0	873073.0	1.36346	Y
4	IC 410-102081/15	2.0	2.732403	10.0	891523.0	1.366201	Y
5	IC 410-102081/14	5.0	6.876558	10.0	894811.0	1.375312	Y
6	ICIS 410-102081/13	10.0	13.736115	10.0	910957.0	1.373611	Y
7	IC 410-102081/12	25.0	35.295865	10.0	918475.0	1.411835	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

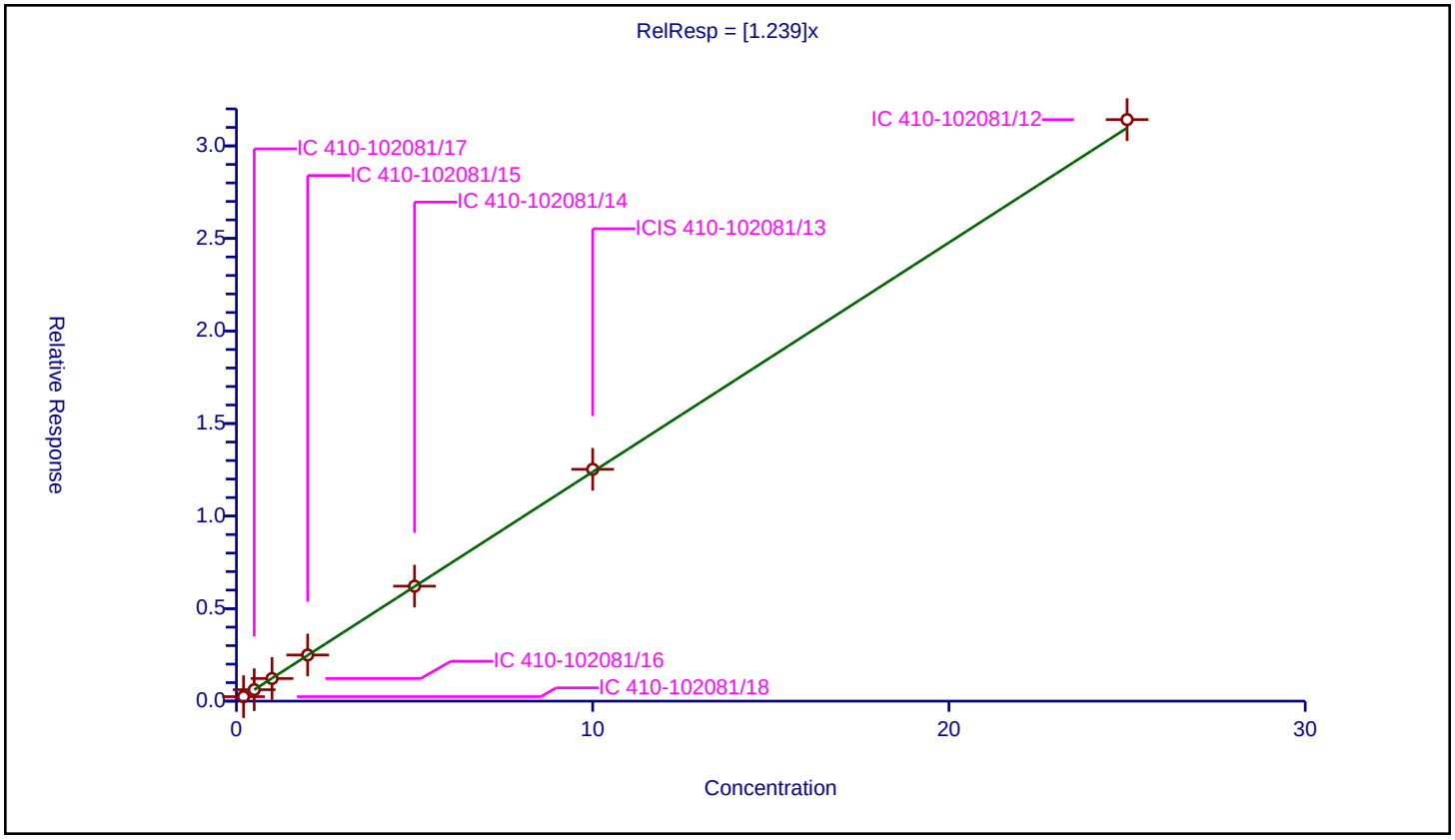
Curve Coefficients

Intercept:	0
Slope:	1.239

Error Coefficients

Standard Error:	1290000
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 410-102081/18	0.2	0.241936	10.0	866469.0	1.20968	Y
2	IC 410-102081/17	0.5	0.619956	10.0	872465.0	1.239912	Y
3	IC 410-102081/16	1.0	1.223117	10.0	873073.0	1.223117	Y
4	IC 410-102081/15	2.0	2.494753	10.0	891523.0	1.247377	Y
5	IC 410-102081/14	5.0	6.212954	10.0	894811.0	1.242591	Y
6	ICIS 410-102081/13	10.0	12.526563	10.0	910957.0	1.252656	Y
7	IC 410-102081/12	25.0	31.420942	10.0	918475.0	1.256838	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

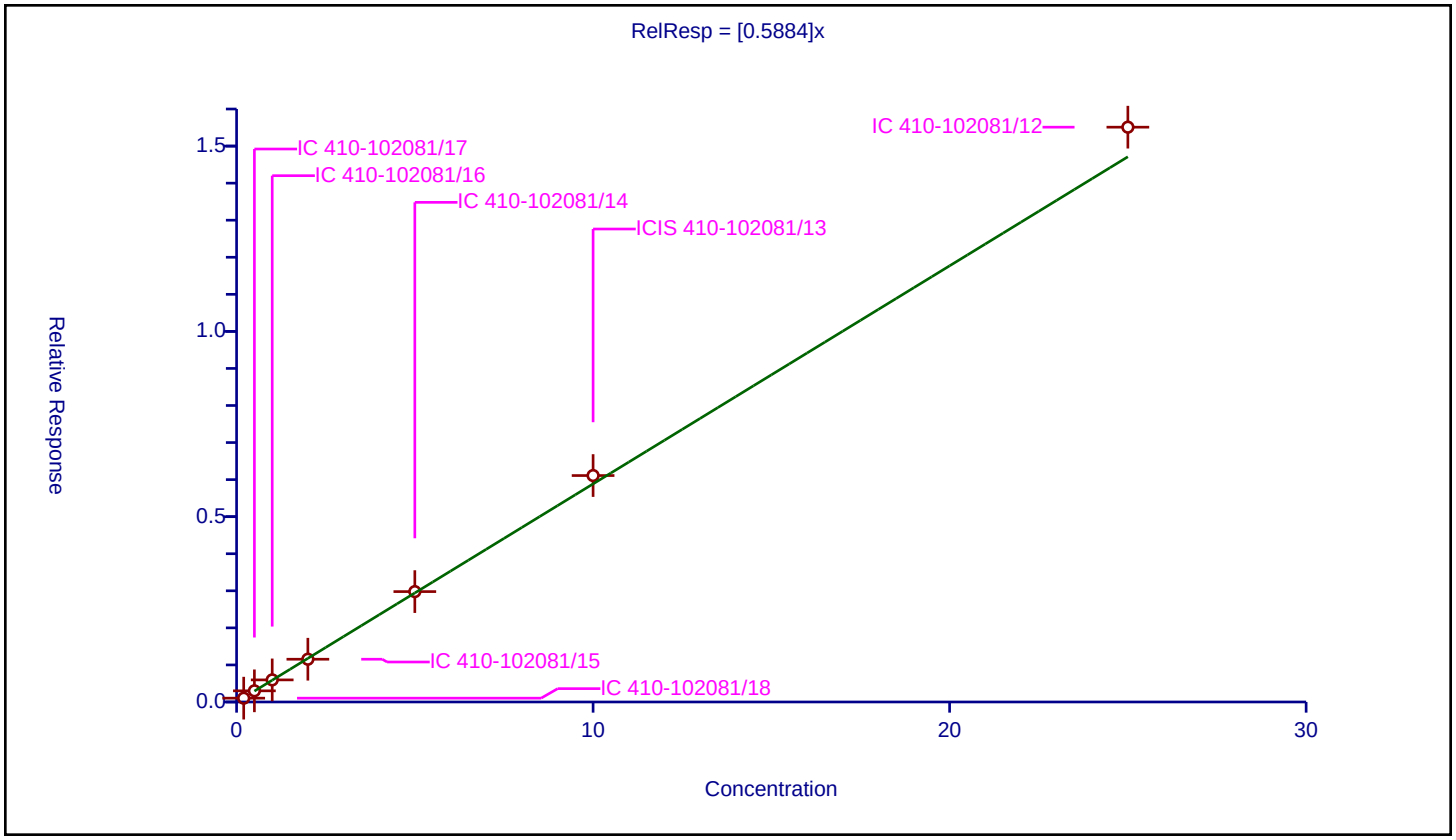
Curve Coefficients

Intercept:	0
Slope:	0.5884

Error Coefficients

Standard Error:	636000
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 410-102081/18	0.2	0.103374	10.0	866469.0	0.516868	Y
2	IC 410-102081/17	0.5	0.300883	10.0	872465.0	0.601766	Y
3	IC 410-102081/16	1.0	0.596296	10.0	873073.0	0.596296	Y
4	IC 410-102081/15	2.0	1.154092	10.0	891523.0	0.577046	Y
5	IC 410-102081/14	5.0	2.978517	10.0	894811.0	0.595703	Y
6	ICIS 410-102081/13	10.0	6.10974	10.0	910957.0	0.610974	Y
7	IC 410-102081/12	25.0	15.510264	10.0	918475.0	0.620411	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

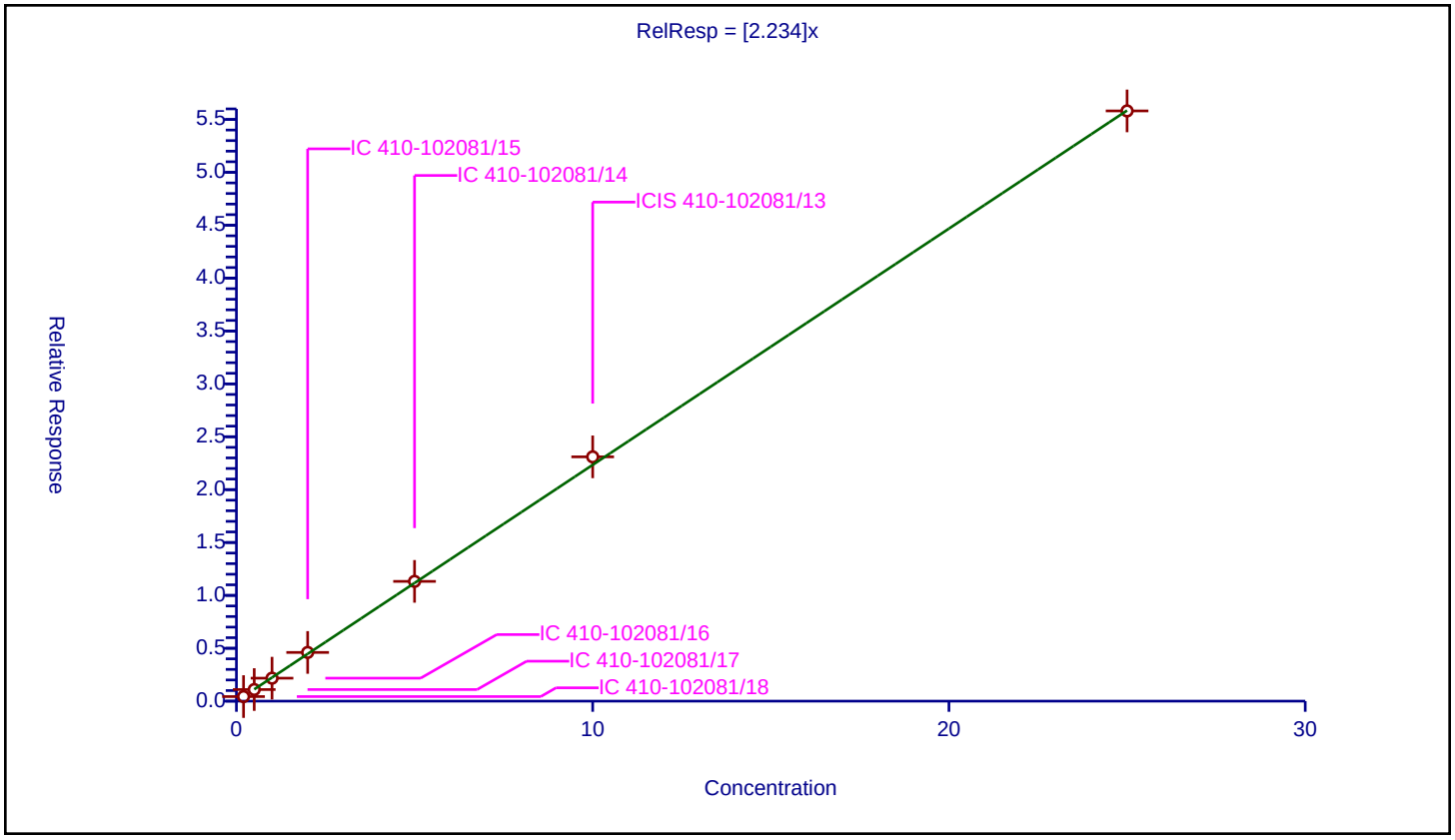
Curve Coefficients

Intercept:	0
Slope:	2.234

Error Coefficients

Standard Error:	2310000
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 410-102081/18	0.2	0.43271	10.0	866469.0	2.163551	Y
2	IC 410-102081/17	0.5	1.096594	10.0	872465.0	2.193188	Y
3	IC 410-102081/16	1.0	2.171342	10.0	873073.0	2.171342	Y
4	IC 410-102081/15	2.0	4.60577	10.0	891523.0	2.302885	Y
5	IC 410-102081/14	5.0	11.324235	10.0	894811.0	2.264847	Y
6	ICIS 410-102081/13	10.0	23.098577	10.0	910957.0	2.309858	Y
7	IC 410-102081/12	25.0	55.808117	10.0	918475.0	2.232325	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

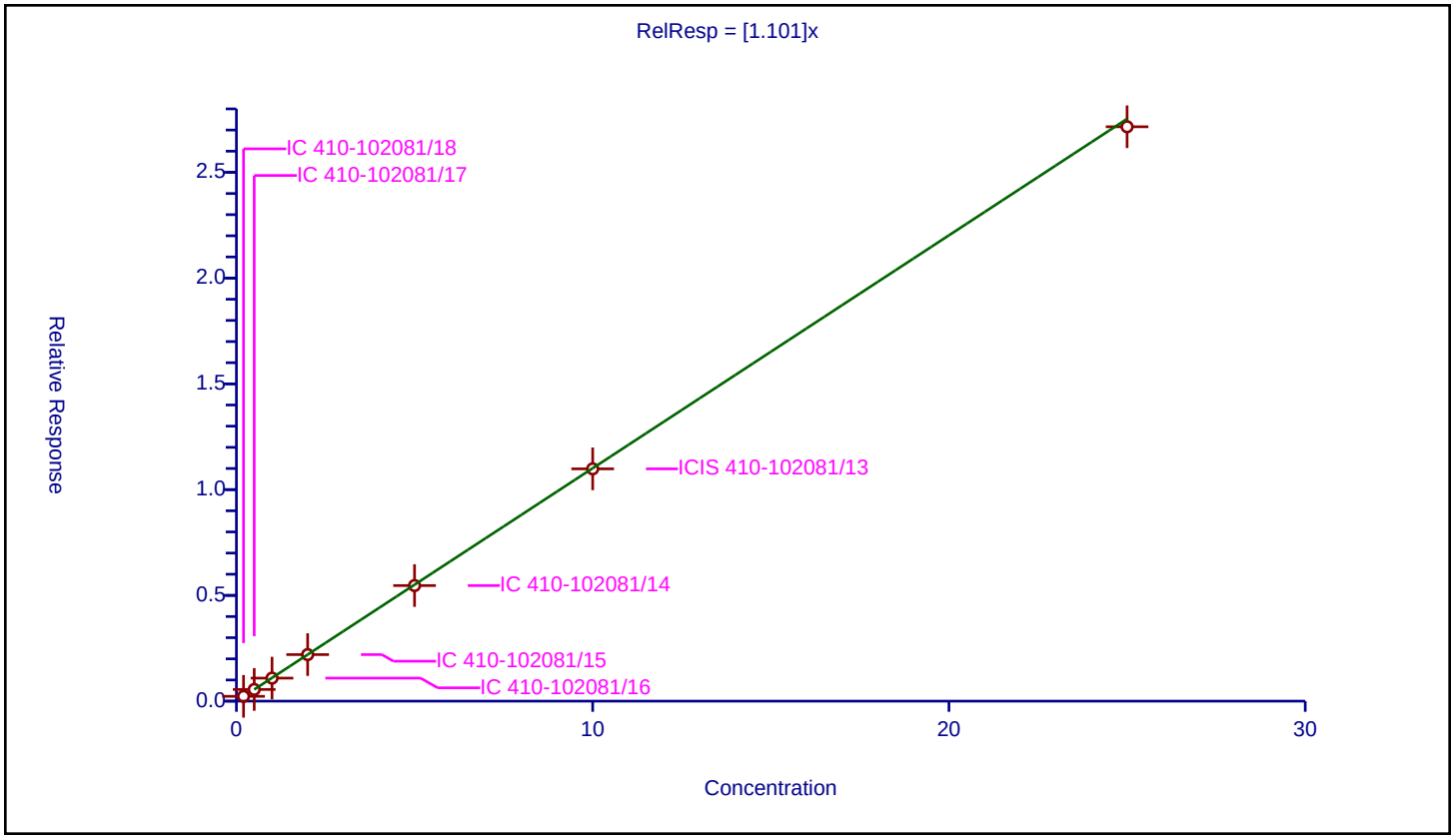
Curve Coefficients

Intercept:	0
Slope:	1.101

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	1.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.227648	10.0	866469.0	1.13824	Y
2	IC 410-102081/17	0.5	0.551632	10.0	872465.0	1.103265	Y
3	IC 410-102081/16	1.0	1.088809	10.0	873073.0	1.088809	Y
4	IC 410-102081/15	2.0	2.200336	10.0	891523.0	1.100168	Y
5	IC 410-102081/14	5.0	5.464774	10.0	894811.0	1.092955	Y
6	ICIS 410-102081/13	10.0	10.982549	10.0	910957.0	1.098255	Y
7	IC 410-102081/12	25.0	27.154599	10.0	918475.0	1.086184	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 15:20 Calibration End Date: 06/30/2021 17:25 Calibration ID: 28254

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-143886/10	HU30I07.D
Level 2	IC 410-143886/9	HU30I06.D
Level 3	IC 410-143886/8	HU30I05.D
Level 4	IC 410-143886/7	HU30I04.D
Level 5	IC 410-143886/6	HU30I03.D
Level 6	IC 410-143886/5	HU30I02.D
Level 7	IC 410-143886/4	HU30I01.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								
Methoxymethane	+++++ 0.2862	0.3553 0.2727	0.3392	0.2876	0.3180	Ave		0.3098				10.6		20.0			
Acetonitrile	0.0174 0.0134	0.0133 0.0118	0.0135	0.0134	0.0132	Ave		0.0137				12.6		20.0			
Vinyl acetate	0.4077 0.4033	0.3012 0.3637	0.3770	0.3572	0.3945	Ave		0.3721				9.9		20.0			
Ethyl acetate	0.1539 0.1508	0.1229 0.1529	0.1514	0.1426	0.1471	Ave		0.1459				7.4		20.0			
2-Chloroethyl vinyl ether	+++++ 0.0070	0.0020 0.0071	0.0071	0.0070	0.0075	Lin1	-0.002	0.0073							0.9960		0.9900
cis-1,4-Dichloro-2-butene	0.0971 0.1044	0.0896 0.1064	0.0916	0.0978	0.1042	Ave		0.0987				6.7		20.0			
Cyclohexanone	0.4238 0.4606	0.3724 0.4630	0.4550	0.4702	0.4465	Ave		0.4416				7.7		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 15:20 Calibration End Date: 06/30/2021 17:25 Calibration ID: 28254

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-143886/10	HU30I07.D
Level 2	IC 410-143886/9	HU30I06.D
Level 3	IC 410-143886/8	HU30I05.D
Level 4	IC 410-143886/7	HU30I04.D
Level 5	IC 410-143886/6	HU30I03.D
Level 6	IC 410-143886/5	HU30I02.D
Level 7	IC 410-143886/4	HU30I01.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
Methoxymethane	FB	Ave	+++++ 653211	40322 1564590	76722	130338	361056	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
Acetonitrile	FB	Ave	31699 1221257	60227 2698306	122387	242905	601641	8.00 400	20.0 1000	40.0	80.0	200
Vinyl acetate	FB	Ave	18590 920221	34174 2086806	85255	161887	447995	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl acetate	FB	Ave	7016 344118	13944 877427	34233	64627	166981	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloroethyl vinyl ether	FB	Lin1	+++++ 15884	227 40762	1600	3156	8519	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
cis-1,4-Dichloro-2-butene	CBZd 5	Ave	6614 354470	14983 910517	31014	65569	174826	0.400 20.0	1.00 50.0	2.00	4.00	10.0
Cyclohexanone	TBAd 10	Ave	9526 526163	21949 1255902	51795	109213	253914	10.0 500	25.0 1250	50.0	100	250

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 15:20 Calibration End Date: 06/30/2021 17:25 Calibration ID: 28254

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-143886/10	HU30I07.D
Level 2	IC 410-143886/9	HU30I06.D
Level 3	IC 410-143886/8	HU30I05.D
Level 4	IC 410-143886/7	HU30I04.D
Level 5	IC 410-143886/6	HU30I03.D
Level 6	IC 410-143886/5	HU30I02.D
Level 7	IC 410-143886/4	HU30I01.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
Methoxymethane	+++++ -12.0	14.7	9.5	-7.2	2.6	-7.6	30	50	30	30	30	30
Acetonitrile	26.8 -14.2	-3.2	-1.3	-2.3	-3.4	-2.4	50 30	30	30	30	30	30
Vinyl acetate	9.6 -2.3	-19.1	1.3	-4.0	6.0	8.4	50 30	30	30	30	30	30
Ethyl acetate	5.4 4.8	-15.8	3.7	-2.3	0.8	3.3	50 30	30	30	30	30	30
2-Chloroethyl vinyl ether	+++++ -1.4	-29.5	18.8	6.6	7.6	-2.1	30	50	30	30	30	30
cis-1,4-Dichloro-2-butene	-1.7 7.8	-9.3	-7.2	-1.0	5.6	5.8	50 30	30	30	30	30	30
Cyclohexanone	-4.0 4.8	-15.7	3.0	6.5	1.1	4.3	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I01.D				
Lims ID:	IC std7 25				
Client ID:					
Sample Type:	IC	Calib Level:	7		
Inject. Date:	30-Jun-2021 15:20:30	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0033290-004				
Misc. Info.:	IC STD7 25				
Operator ID:	jml01693	Instrument ID:	19094		
Sublist:	chrom-MSV_19094_25mL*sub41				
Method:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Jul-2021 16:17:49	Calib Date:	30-Jun-2021 20:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1617				
First Level Reviewer: campbellme		Date:	01-Jul-2021 16:17:30		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Dimethyl ether	45	2.081	2.074	0.007	99	1564590	25.0	22.0	
25 Acetonitrile	41	3.989	4.013	-0.024	100	2698306	999.9	857.5	
* 28 t-Butyl alcohol-d10 (IS)	65	4.239	4.269	-0.030	88	108511	50.0	50.0	
36 Vinyl acetate	43	5.324	5.330	-0.006	97	2086806	25.0	24.4	
44 Ethyl acetate	43	6.208	6.208	0.000	99	877427	25.0	26.2	
61 Isopropyl acetate	43	7.439	7.439	0.000	98	1938340	25.0	25.4	
* 65 Fluorobenzene (IS)	96	7.768	7.769	-0.001	99	2295364	10.0	10.0	
74 n-Propyl acetate	61	8.744	8.750	-0.006	99	430020	25.0	28.0	
78 2-Chloroethyl vinyl ether	63	9.293	9.299	-0.006	90	40762	25.0	24.7	
92 n-Butyl acetate	43	10.646	10.646	0.000	99	1762008	25.0	25.6	
* 97 Chlorobenzene-d5 (IS)	117	11.237	11.237	0.000	86	1710506	10.0	10.0	
106 cis-1,4-Dichloro-2-butene	88	12.133	12.133	0.000	26	910517	50.0	53.9	
107 Cyclohexanone	55	12.164	12.170	-0.006	91	1255902	1250.0	1310.4	
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	95	892940	10.0	10.0	

QC Flag Legend

Processing Flags

Reagents:

MSV_V_VOA5_00025	Amount Added:	12.50	Units: uL
MSV_VAcet_00007	Amount Added:	20.00	Units: uL
MSV_VCYC_00006	Amount Added:	20.00	Units: uL
MSV_V_SMRV4_00023	Amount Added:	12.50	Units: uL
MSV_DME_00028	Amount Added:	2.50	Units: uL
MSV_LLcentISO_00001	Amount Added:	5.00	Units: uL

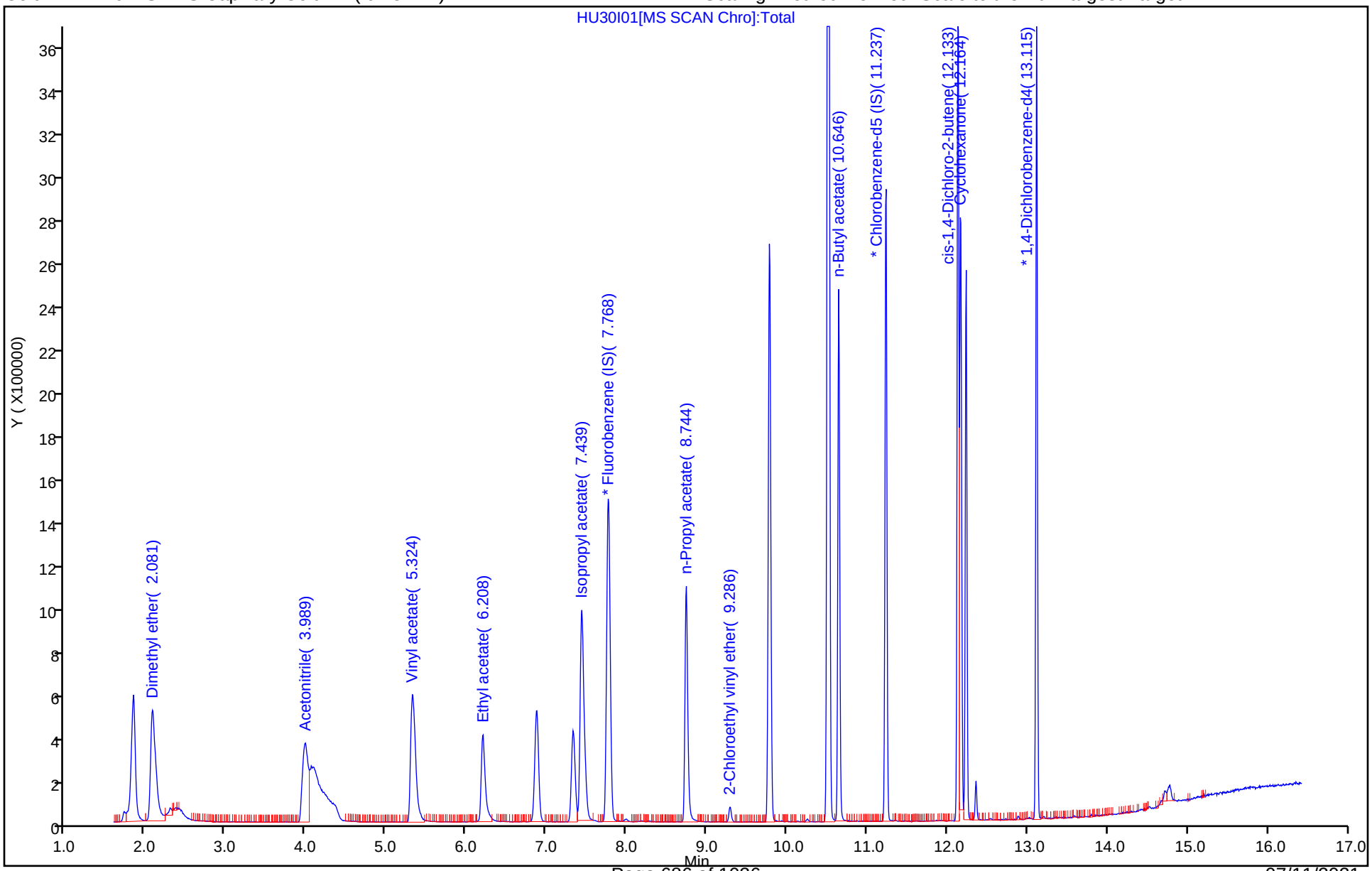
Report Date: 01-Jul-2021 16:17:50 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I01.D

Injection Date:	30-Jun-2021 15:20:30	Instrument ID:	19094	Operator ID:	jml01693
Lims ID:	IC std7 25			Worklist Smp#:	4
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I02.D				
Lims ID:	IC std6 10				
Client ID:					
Sample Type:	IC	Calib Level:	6		
Inject. Date:	30-Jun-2021 15:41:30	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0033290-005				
Misc. Info.:	IC 10				
Operator ID:	jml01693	Instrument ID:	19094		
Sublist:	chrom-MSV_19094_25mL*sub41				
Method:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Jul-2021 16:17:51	Calib Date:	30-Jun-2021 20:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1617				
First Level Reviewer: campbellme		Date:	01-Jul-2021 00:03:44		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Dimethyl ether	45	2.069	2.069	0.000	99	653211	10.0	9.24	
25 Acetonitrile	41	3.989	3.989	0.000	98	1221257	400.0	390.4	
* 28 t-Butyl alcohol-d10 (IS)	65	4.239	4.239	0.000	87	114237	50.0	50.0	
36 Vinyl acetate	43	5.318	5.318	0.000	97	920221	10.0	10.8	
44 Ethyl acetate	43	6.196	6.196	0.000	99	344118	10.0	10.3	
61 Isopropyl acetate	43	7.433	7.433	0.000	98	778741	10.0	10.3	
* 65 Fluorobenzene (IS)	96	7.763	7.763	0.000	99	2281963	10.0	10.0	
74 n-Propyl acetate	61	8.738	8.738	0.000	99	170747	10.0	11.2	
78 2-Chloroethyl vinyl ether	63	9.293	9.293	0.000	93	15884	10.0	9.79	
92 n-Butyl acetate	43	10.646	10.646	0.000	99	698764	10.0	10.3	
* 97 Chlorobenzene-d5 (IS)	117	11.237	11.237	0.000	86	1696265	10.0	10.0	
106 cis-1,4-Dichloro-2-butene	88	12.134	12.134	0.000	26	354470	20.0	21.2	
107 Cyclohexanone	55	12.164	12.164	0.000	92	526163	500.0	521.5	
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	95	899941	10.0	10.0	

QC Flag Legend

Processing Flags

Reagents:

MSV_V_VOA5_00025	Amount Added:	5.00	Units: uL
MSV_VAcet_00007	Amount Added:	8.00	Units: uL
MSV_VCYC_00006	Amount Added:	8.00	Units: uL
MSV_V_SMRV4_00023	Amount Added:	5.00	Units: uL
MSV_DME_00028	Amount Added:	1.00	Units: uL
MSV_LLcentISO_00001	Amount Added:	5.00	Units: uL

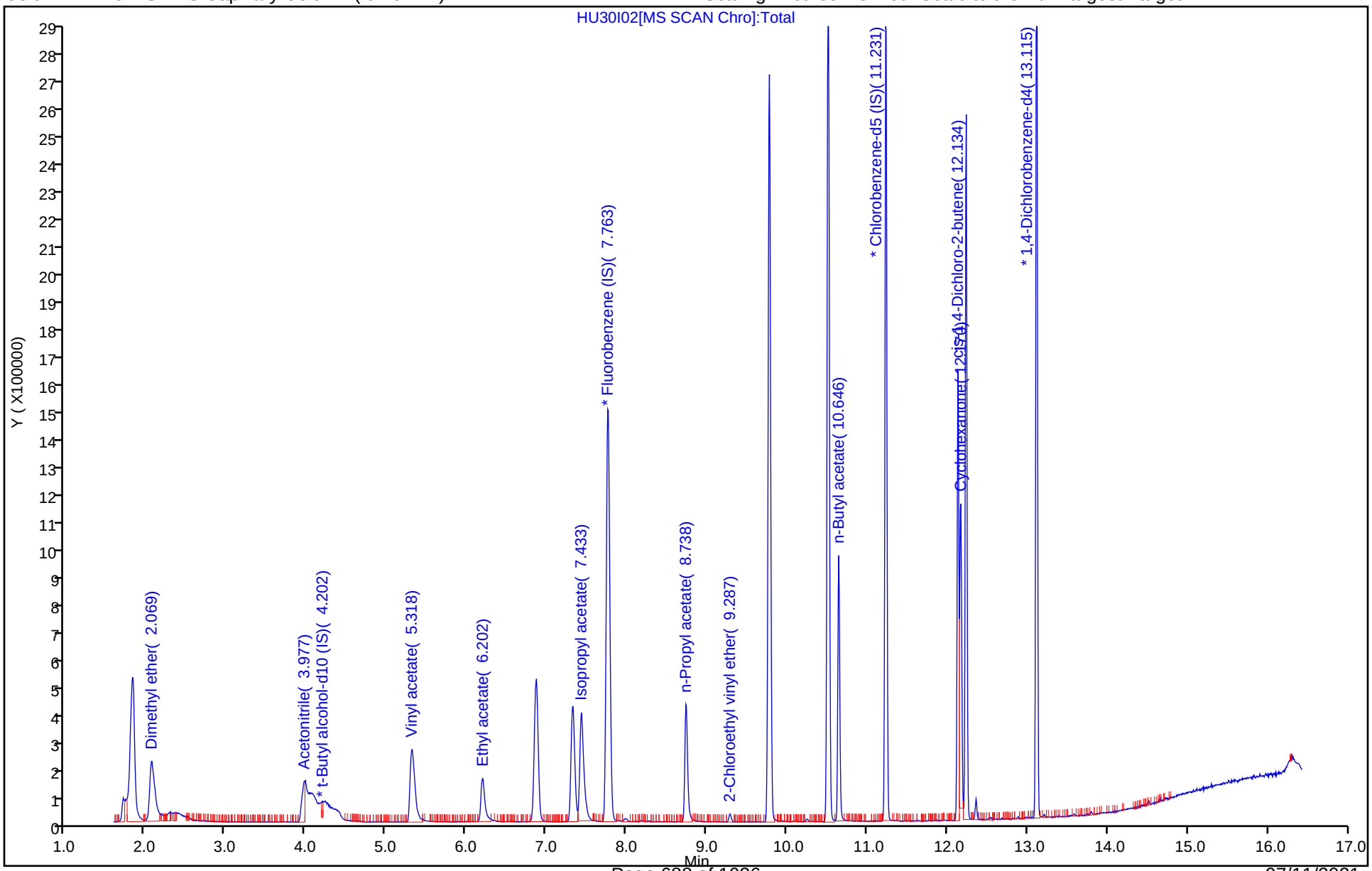
Report Date: 01-Jul-2021 16:17:52 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I02.D

Injection Date:	30-Jun-2021 15:41:30	Instrument ID:	19094	Operator ID:	jml01693
Lims ID:	IC std6 10			Worklist Smp#:	5
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I03.D				
Lims ID:	IC std5 5				
Client ID:					
Sample Type:	IC	Calib Level:	5		
Inject. Date:	30-Jun-2021 16:02:30	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0033290-006				
Misc. Info.:	IC STD5 5				
Operator ID:	jml01693	Instrument ID:	19094		
Sublist:	chrom-MSV_19094_25mL*sub41				
Method:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Jul-2021 16:17:53	Calib Date:	30-Jun-2021 20:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1617				
First Level Reviewer: campbellme		Date:	01-Jul-2021 00:06:07		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Dimethyl ether	45	2.068	2.069	-0.001	99	361056	5.00	5.13	
25 Acetonitrile	41	3.989	3.989	0.000	100	601641	200.0	193.2	
* 28 t-Butyl alcohol-d10 (IS)	65	4.239	4.239	0.000	89	113746	50.0	50.0	
36 Vinyl acetate	43	5.324	5.318	0.006	97	447995	5.00	5.30	
44 Ethyl acetate	43	6.208	6.196	0.012	99	166981	5.00	5.04	
61 Isopropyl acetate	43	7.433	7.433	0.000	98	388889	5.00	5.15	
* 65 Fluorobenzene (IS)	96	7.769	7.763	0.005	99	2270969	10.0	10.0	
74 n-Propyl acetate	61	8.744	8.738	0.006	98	83246	5.00	5.48	
78 2-Chloroethyl vinyl ether	63	9.280	9.293	-0.013	90	8519	5.00	5.38	
92 n-Butyl acetate	43	10.646	10.646	0.000	99	342196	5.00	5.08	
* 97 Chlorobenzene-d5 (IS)	117	11.237	11.237	0.000	86	1676224	10.0	10.0	
106 cis-1,4-Dichloro-2-butene	88	12.134	12.134	0.000	23	174826	10.0	10.6	
107 Cyclohexanone	55	12.170	12.164	0.006	91	253914	250.0	252.7	
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	95	891747	10.0	10.0	

QC Flag Legend

Processing Flags

Reagents:

MSV_V_VOA5_00025	Amount Added:	5.00	Units: uL
MSV_VAcet_00007	Amount Added:	8.00	Units: uL
MSV_VCYC_00006	Amount Added:	8.00	Units: uL
MSV_V_SMRV4_00023	Amount Added:	5.00	Units: uL
MSV_DME_00028	Amount Added:	1.00	Units: uL
MSV_LLcentISO_00001	Amount Added:	5.00	Units: uL

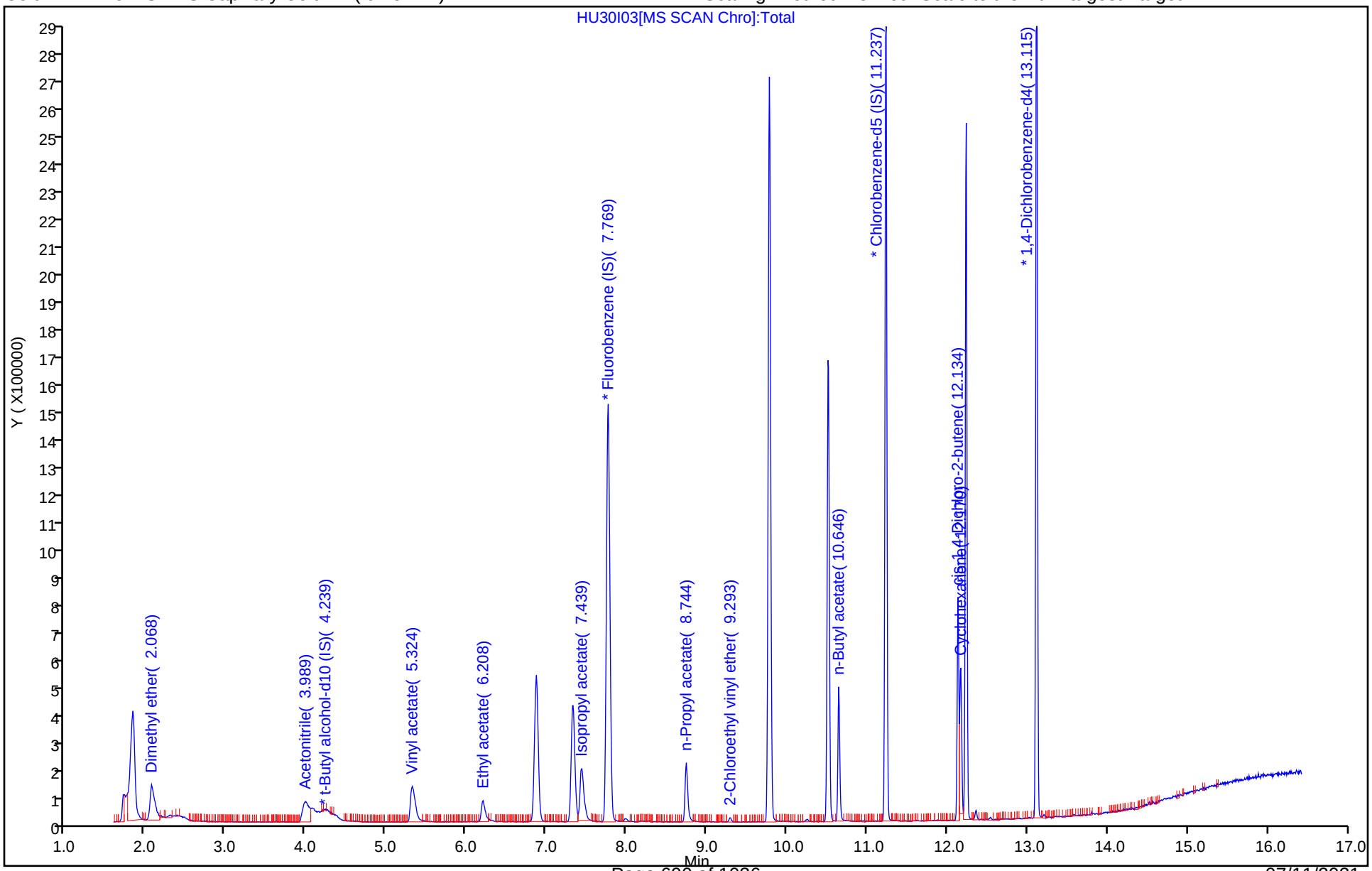
Report Date: 01-Jul-2021 16:17:54 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I03.D

Injection Date:	30-Jun-2021 16:02:30	Instrument ID:	19094	Operator ID:	jml01693
Lims ID:	IC std5 5			Worklist Smp#:	6
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I04.D
Lims ID: IC std4 2
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Jun-2021 16:22:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033290-007
Misc. Info.: IC STD4 2
Operator ID: jml01693 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub41

Method: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Jul-2021 16:17:56 Calib Date: 30-Jun-2021 20:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: campbellme Date: 01-Jul-2021 00:06:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Dimethyl ether	45	2.074	2.074	0.000	99	130338	2.00	1.86	
25 Acetonitrile	41	4.013	4.013	0.000	98	242905	80.0	78.2	
* 28 t-Butyl alcohol-d10 (IS)	65	4.257	4.257	0.000	91	116124	50.0	50.0	
36 Vinyl acetate	43	5.330	5.330	0.000	97	161887	2.00	1.92	
44 Ethyl acetate	43	6.208	6.208	0.000	98	64627	2.00	1.95	
61 Isopropyl acetate	43	7.439	7.439	0.000	98	144604	2.00	1.92	
* 65 Fluorobenzene (IS)	96	7.768	7.768	0.000	99	2266052	10.0	10.0	
74 n-Propyl acetate	61	8.750	8.750	0.000	99	29459	2.00	1.94	
78 2-Chloroethyl vinyl ether	63	9.299	9.299	0.000	57	3156	2.00	2.13	
92 n-Butyl acetate	43	10.646	10.646	0.000	99	129719	2.00	1.93	
* 97 Chlorobenzene-d5 (IS)	117	11.237	11.237	0.000	86	1676015	10.0	10.0	
106 cis-1,4-Dichloro-2-butene	88	12.133	12.133	0.000	26	65569	4.00	3.96	
107 Cyclohexanone	55	12.170	12.170	0.000	91	109213	100.0	106.5	
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	95	889787	10.0	10.0	

QC Flag Legend
Processing Flags

Reagents:

MSV_V_VOA5_00025	Amount Added:	5.00	Units: uL
MSV_VAcet_00007	Amount Added:	8.00	Units: uL
MSV_VCYC_00006	Amount Added:	8.00	Units: uL
MSV_V_SMRV4_00023	Amount Added:	5.00	Units: uL
MSV_DME_00028	Amount Added:	1.00	Units: uL
MSV_LLcentISO_00001	Amount Added:	5.00	Units: uL

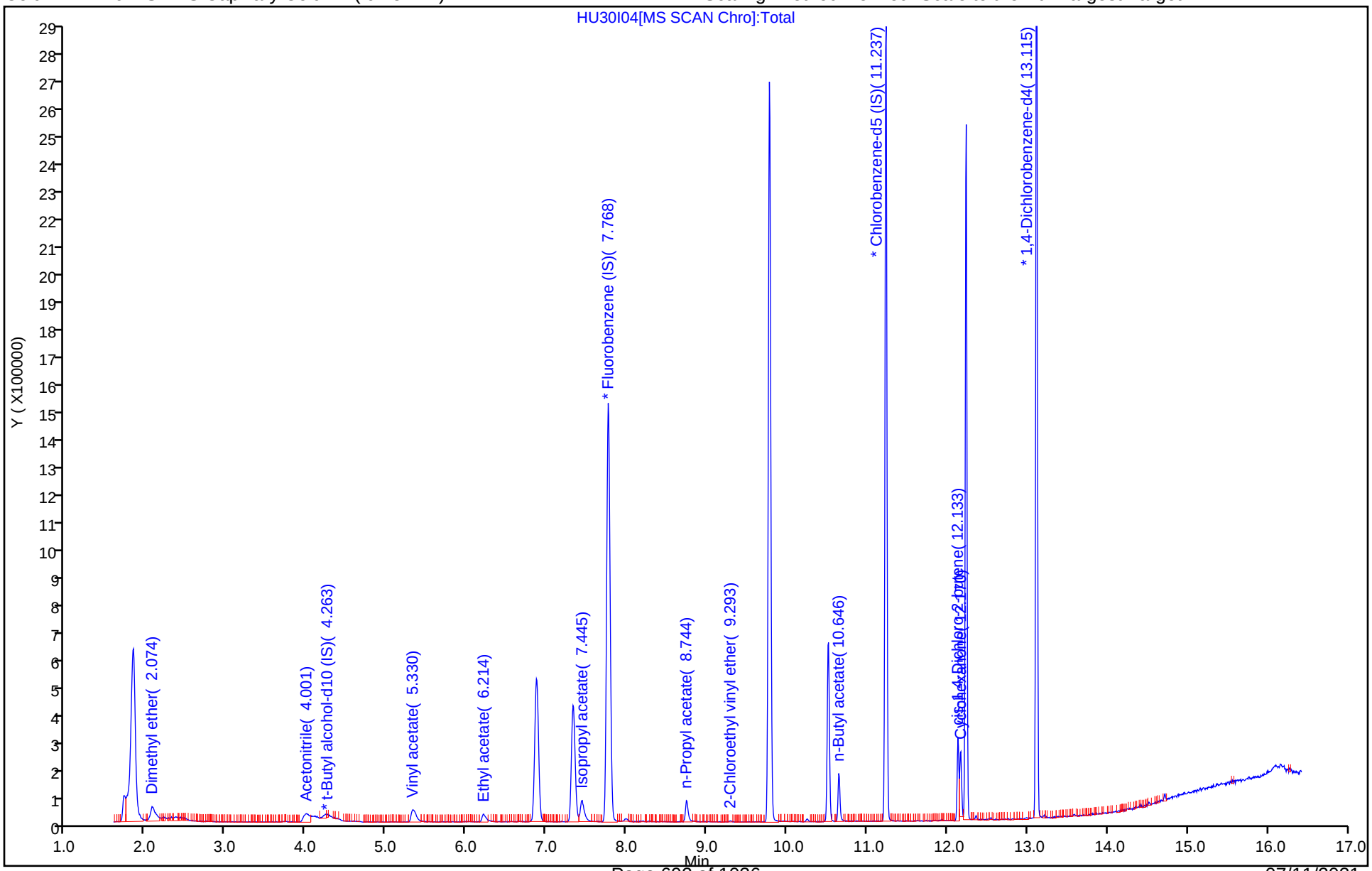
Report Date: 01-Jul-2021 16:17:57 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I04.D

Injection Date:	30-Jun-2021 16:22:30	Instrument ID:	19094	Operator ID:	jml01693
Lims ID:	IC std4 2			Worklist Smp#:	7
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I05.D				
Lims ID:	IC std3 1				
Client ID:					
Sample Type:	IC	Calib Level:	3		
Inject. Date:	30-Jun-2021 16:43:30	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0033290-008				
Misc. Info.:	IC STD3 1				
Operator ID:	jml01693	Instrument ID:	19094		
Sublist:	chrom-MSV_19094_25mL*sub41				
Method:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Jul-2021 16:17:59	Calib Date:	30-Jun-2021 20:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1617				
First Level Reviewer: campbellme		Date:	01-Jul-2021 00:08:09		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Dimethyl ether	45	2.075	2.074	0.001	100	76722	1.00	1.09	
25 Acetonitrile	41	3.995	4.013	-0.018	100	122387	40.0	39.5	
* 28 t-Butyl alcohol-d10 (IS)	65	4.227	4.257	-0.030	92	113841	50.0	50.0	
36 Vinyl acetate	43	5.336	5.330	0.006	96	85255	1.00	1.01	
44 Ethyl acetate	43	6.208	6.208	0.000	98	34233	1.00	1.04	
61 Isopropyl acetate	43	7.439	7.439	0.000	97	72547	1.00	0.9645	
* 65 Fluorobenzene (IS)	96	7.769	7.768	0.001	99	2261528	10.0	10.0	
74 n-Propyl acetate	61	8.750	8.750	0.000	99	14913	1.00	0.9857	
78 2-Chloroethyl vinyl ether	63	9.299	9.299	0.000	0	1600	1.00	1.19	
92 n-Butyl acetate	43	10.646	10.646	0.000	98	63988	1.00	0.9413	
* 97 Chlorobenzene-d5 (IS)	117	11.237	11.237	0.000	86	1692477	10.0	10.0	
106 cis-1,4-Dichloro-2-butene	88	12.134	12.133	0.001	23	31014	2.00	1.86	
107 Cyclohexanone	55	12.170	12.170	0.000	91	51795	50.0	51.5	
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	95	895543	10.0	10.0	

QC Flag Legend

Processing Flags

Reagents:

MSV_V_VOA5_00025	Amount Added:	5.00	Units: uL
MSV_VAcet_00007	Amount Added:	8.00	Units: uL
MSV_VCYC_00006	Amount Added:	8.00	Units: uL
MSV_V_SMRV4_00023	Amount Added:	5.00	Units: uL
MSV_DME_00028	Amount Added:	1.00	Units: uL
MSV_LLcentISO_00001	Amount Added:	5.00	Units: uL

Report Date: 01-Jul-2021 16:18:00 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I05.D

Injection Date:	30-Jun-2021 16:43:30	Instrument ID:	19094	Operator ID:	jml01693
Lims ID:	IC std3 1			Worklist Smp#:	8
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I06.D
Lims ID: IC std2 0.5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Jun-2021 17:04:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033290-009
Misc. Info.: IC STD2 0.5
Operator ID: jml01693 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub41

Method: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Jul-2021 16:18:01 Calib Date: 30-Jun-2021 20:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: campbellme Date: 01-Jul-2021 00:09:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Dimethyl ether	45	2.068	2.074	-0.006	100	40322	0.5000	0.5734	M
25 Acetonitrile	41	3.995	4.013	-0.018	95	60227	20.0	19.4	
* 28 t-Butyl alcohol-d10 (IS)	65	4.257	4.257	0.000	90	117878	50.0	50.0	
36 Vinyl acetate	43	5.330	5.330	0.000	97	34174	0.5000	0.4047	
44 Ethyl acetate	43	6.214	6.208	0.006	96	13944	0.5000	0.4210	
61 Isopropyl acetate	43	7.439	7.439	0.000	97	33729	0.5000	0.4469	
* 65 Fluorobenzene (IS)	96	7.768	7.768	0.000	99	2269486	10.0	10.0	
74 n-Propyl acetate	61	8.750	8.750	0.000	99	6883	0.5000	0.4534	
78 2-Chloroethyl vinyl ether	63	9.293	9.299	-0.006	1	227	0.5000	0.3523	Ma
92 n-Butyl acetate	43	10.646	10.646	0.000	93	34557	0.5000	0.5145	
* 97 Chlorobenzene-d5 (IS)	117	11.231	11.237	-0.006	86	1672175	10.0	10.0	
106 cis-1,4-Dichloro-2-butene	88	12.133	12.133	0.000	23	14983	1.00	0.9077	a
107 Cyclohexanone	55	12.164	12.170	-0.006	88	21949	25.0	21.1	
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	95	894468	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MSV_V_VOA5_00025	Amount Added:	2.50	Units: uL
MSV_VAcet_00007	Amount Added:	4.00	Units: uL
MSV_VCYC_00006	Amount Added:	4.00	Units: uL
MSV_V_SMRV4_00023	Amount Added:	2.50	Units: uL
MSV_DME_00028	Amount Added:	0.50	Units: uL
MSV_LLcentISO_00001	Amount Added:	5.00	Units: uL

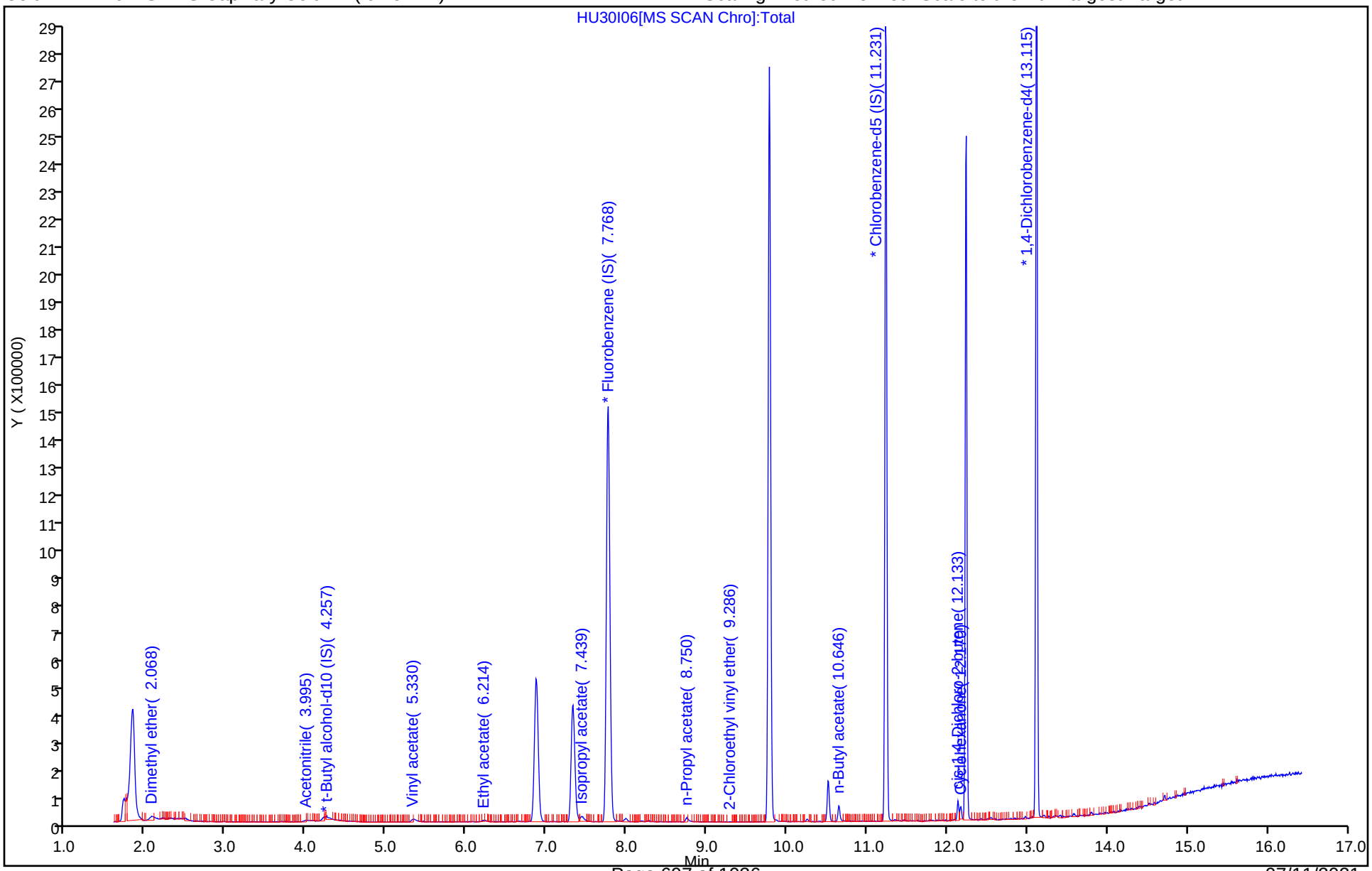
Report Date: 01-Jul-2021 16:18:03 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I06.D

Injection Date:	30-Jun-2021 17:04:30	Instrument ID:	19094	Operator ID:	jml01693
Lims ID:	IC std2 0.5			Worklist Smp#:	9
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

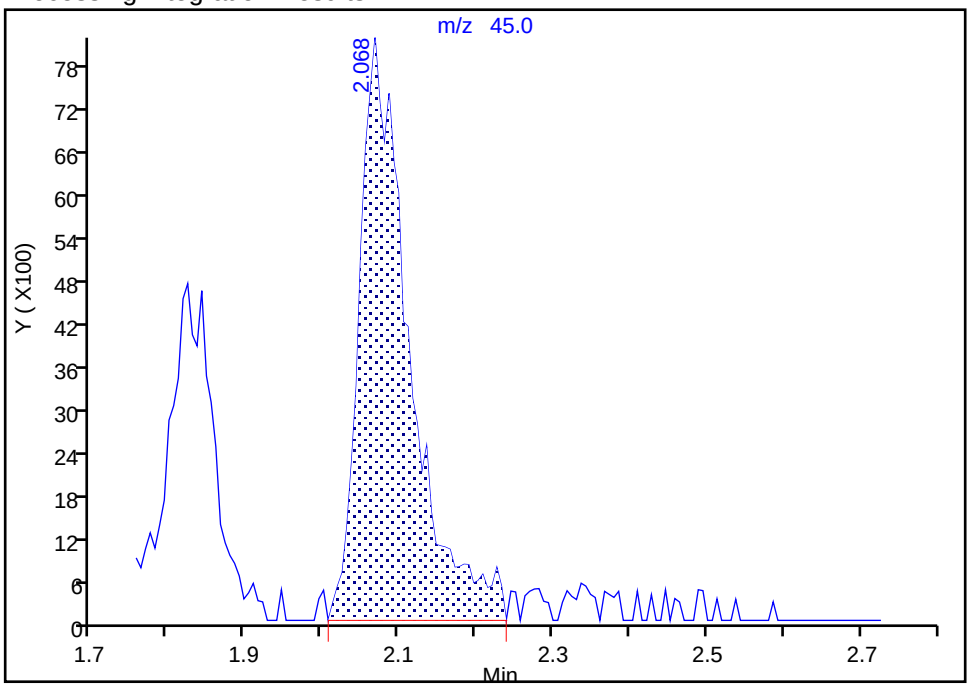
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I06.D				
Injection Date:	30-Jun-2021 17:04:30	Instrument ID:	19094		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

4 Dimethyl ether, CAS: 115-10-6

Signal: 1

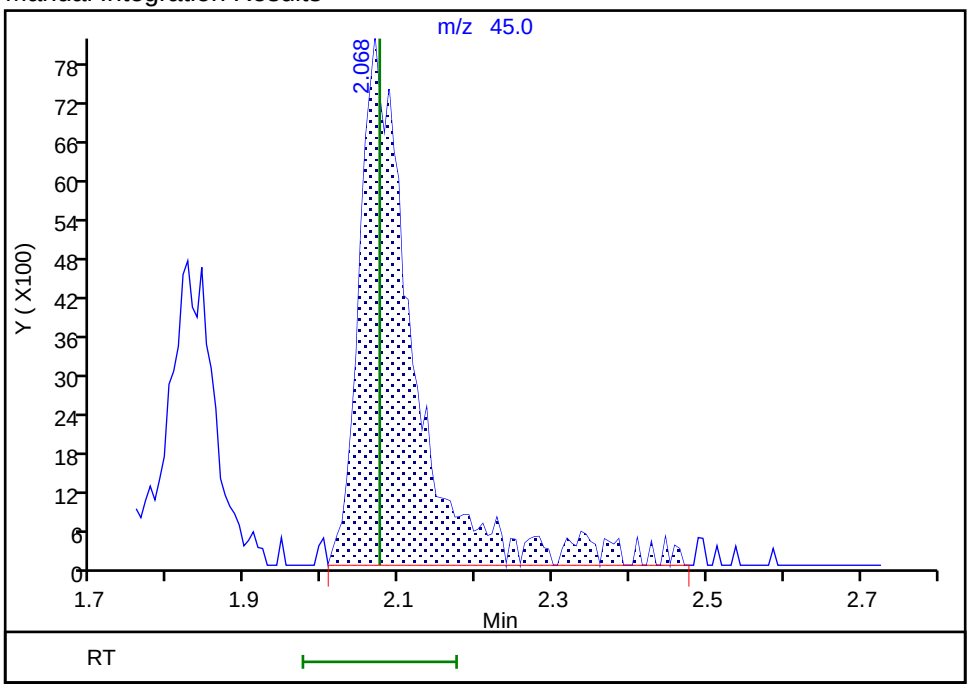
Processing Integration Results

RT: 2.07
Area: 36942
Amount: 0.421607
Amount Units: ug/l



Manual Integration Results

RT: 2.07
Area: 40322
Amount: 0.573421
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:11:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

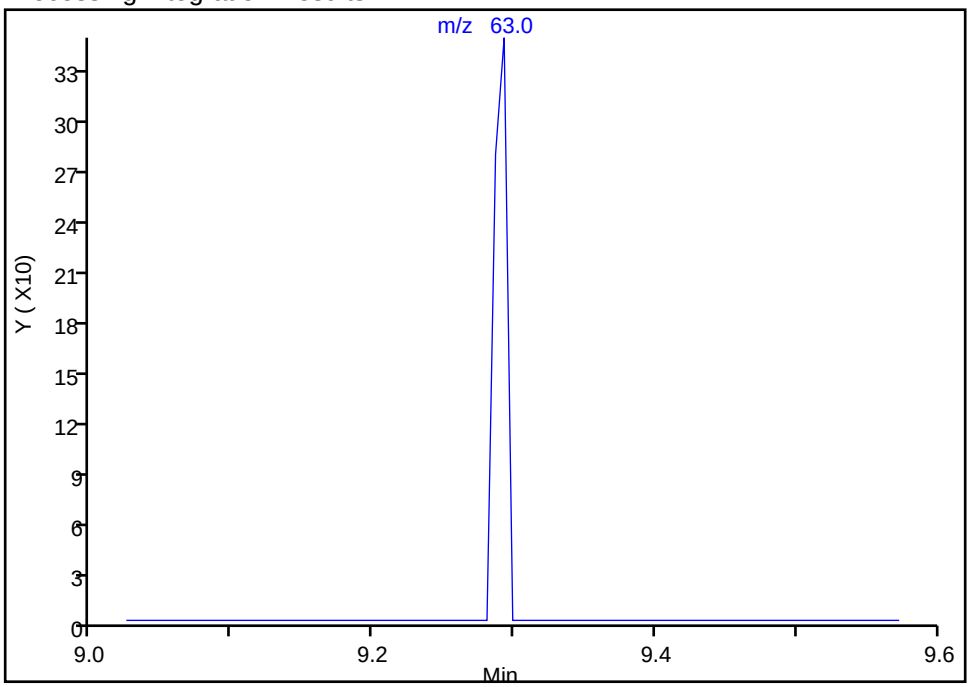
Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I06.D
Injection Date: 30-Jun-2021 17:04:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: jml01693 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

78 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

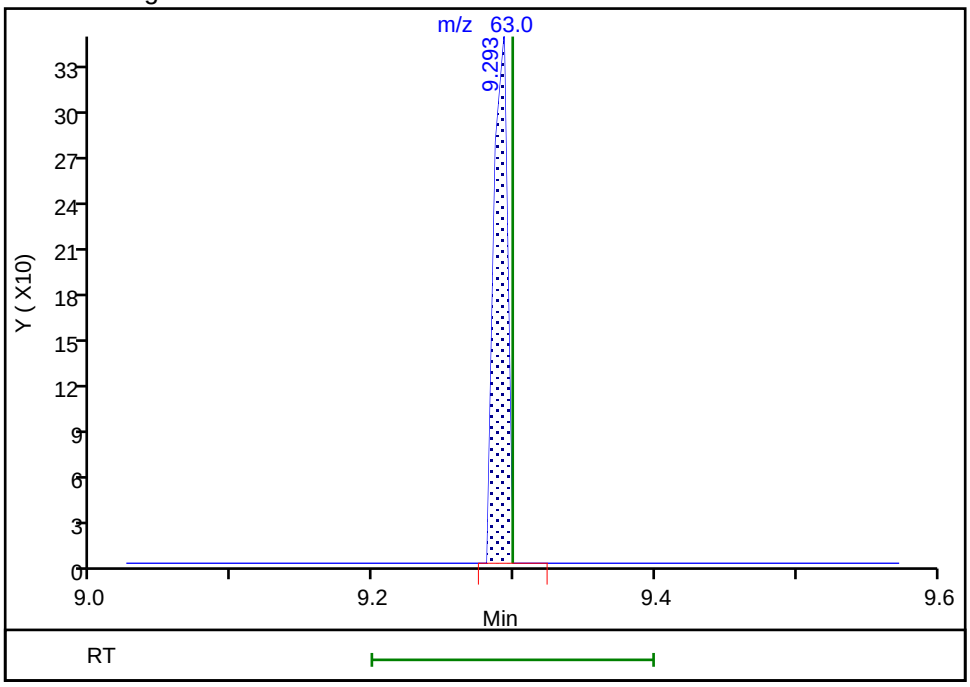
Not Detected
Expected RT: 9.30

Processing Integration Results



Manual Integration Results

RT: 9.29
Area: 227
Amount: 0.352335
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:08:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

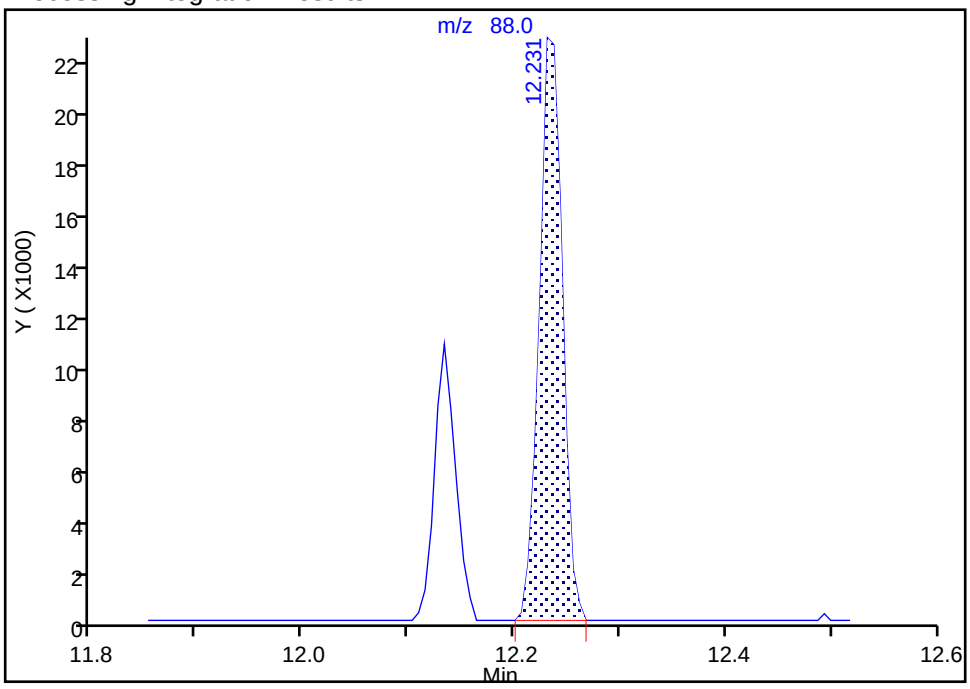
Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I06.D
Injection Date: 30-Jun-2021 17:04:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: jml01693 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

106 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

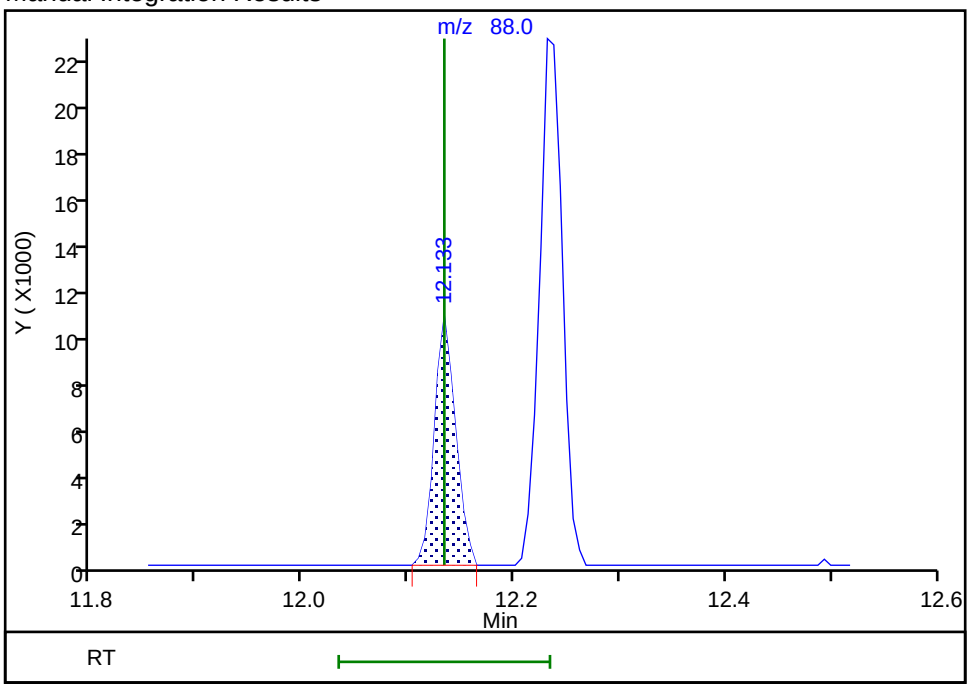
Processing Integration Results

RT: 12.23
Area: 34478
Amount: 1.787304
Amount Units: ug/l



Manual Integration Results

RT: 12.13
Area: 14983
Amount: 0.907672
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:08:31
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I07.D
Lims ID: IC std1 0.2
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Jun-2021 17:25:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033290-010
Misc. Info.: IC STD1 0.2
Operator ID: jml01693 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub41

Method: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Jul-2021 16:18:04 Calib Date: 30-Jun-2021 20:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: campbellme Date: 01-Jul-2021 00:11:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Dimethyl ether	45	2.075	2.074	0.001	98	25996	0.2000	0.3680	M
25 Acetonitrile	41	4.074	4.013	0.061	79	31699	8.00	10.1	
* 28 t-Butyl alcohol-d10 (IS)	65	4.239	4.257	-0.018	91	112382	50.0	50.0	
36 Vinyl acetate	43	5.348	5.330	0.018	91	18590	0.2000	0.2192	M
44 Ethyl acetate	43	6.226	6.208	0.018	46	7016	0.2000	0.2109	
61 Isopropyl acetate	43	7.452	7.439	0.013	97	16849	0.2000	0.2222	Ma
* 65 Fluorobenzene (IS)	96	7.769	7.768	0.001	99	2279880	10.0	10.0	
74 n-Propyl acetate	61	8.744	8.750	-0.006	97	2444	0.2000	0.1602	M
78 2-Chloroethyl vinyl ether	63	9.780	9.299	0.481	36	1305	0.2000	1.00	a
92 n-Butyl acetate	43	10.646	10.646	0.000	97	13650	0.2000	0.1996	M
* 97 Chlorobenzene-d5 (IS)	117	11.231	11.237	-0.006	86	1702414	10.0	10.0	
106 cis-1,4-Dichloro-2-butene	88	12.140	12.133	0.007	23	6614	0.4002	0.3936	
107 Cyclohexanone	55	12.164	12.170	-0.006	90	9526	10.0	9.60	
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	95	905896	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MSV_V_VOA5_00025	Amount Added:	1.00	Units: uL
MSV_VAcet_00007	Amount Added:	1.60	Units: uL
MSV_VCYC_00006	Amount Added:	1.60	Units: uL
MSV_V_SMRV4_00023	Amount Added:	1.00	Units: uL
MSV_DME_00028	Amount Added:	0.20	Units: uL
MSV_LLcentISO_00001	Amount Added:	5.00	Units: uL

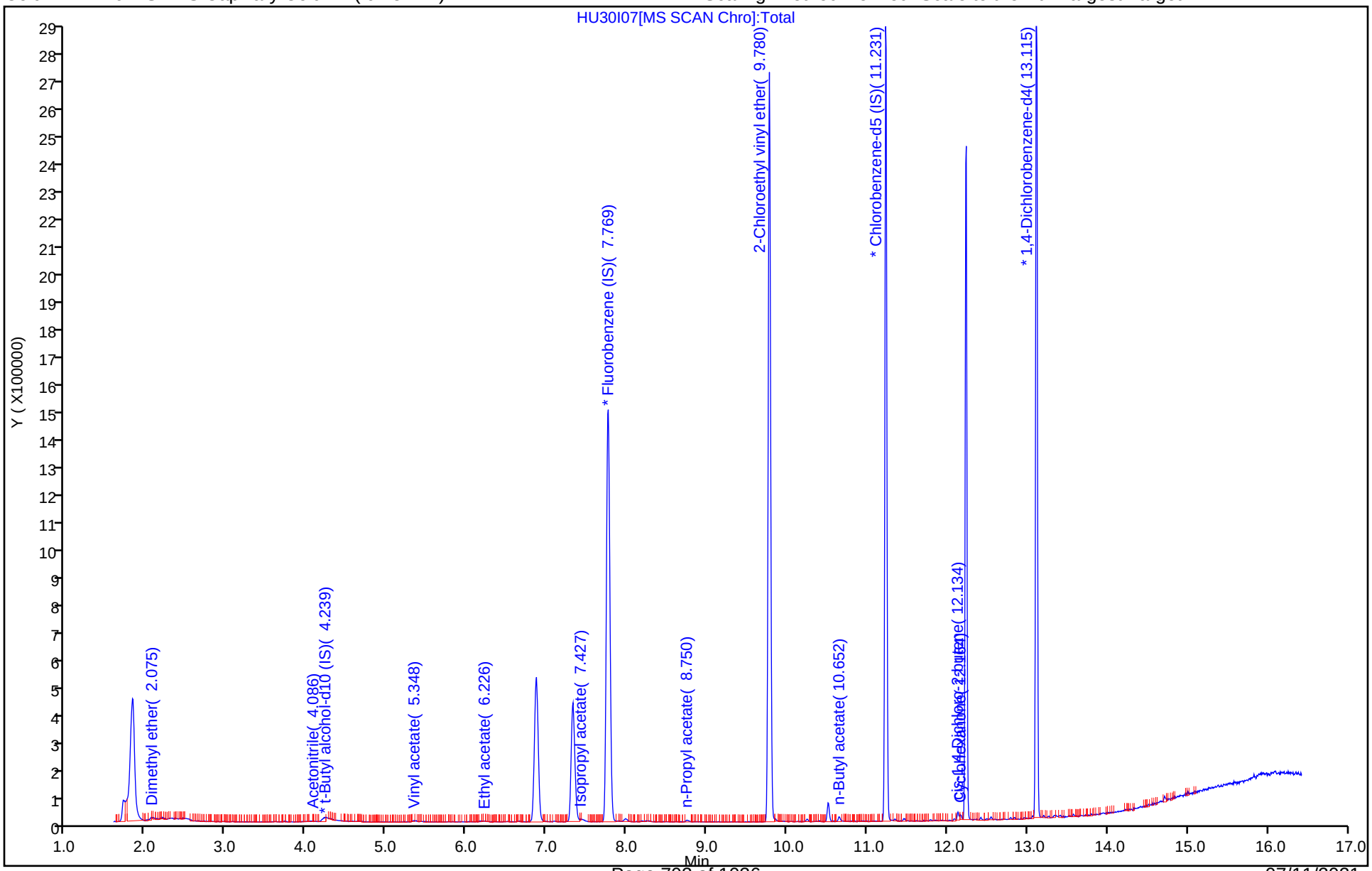
Report Date: 01-Jul-2021 16:18:06 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I07.D

Injection Date:	30-Jun-2021 17:25:30	Instrument ID:	19094	Operator ID:	jml01693
Lims ID:	IC std1 0.2			Worklist Smp#:	10
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

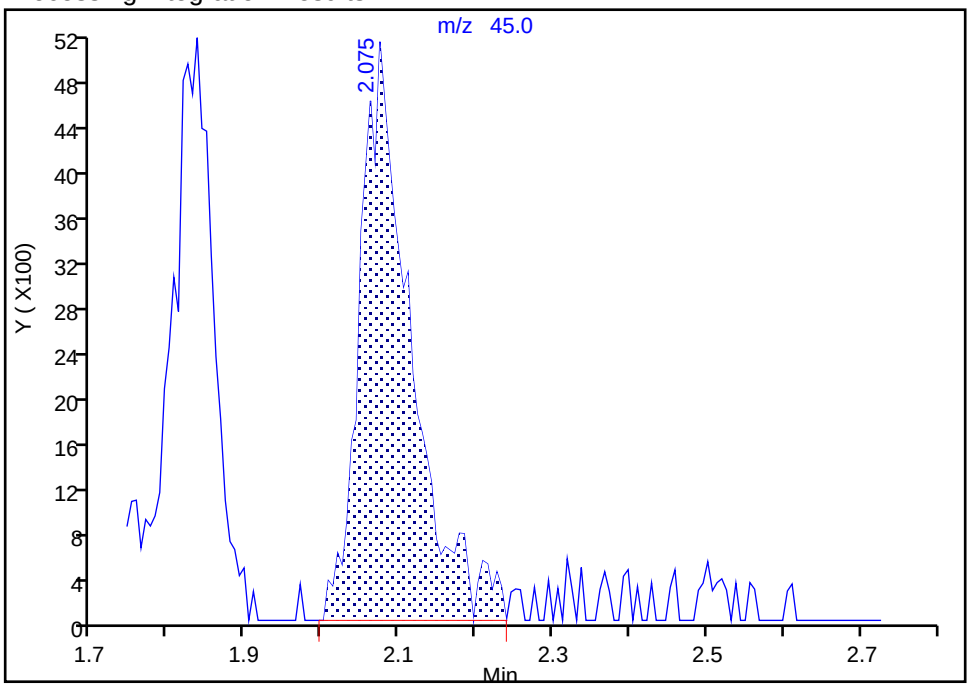
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I07.D				
Injection Date:	30-Jun-2021 17:25:30	Instrument ID:	19094		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

4 Dimethyl ether, CAS: 115-10-6

Signal: 1

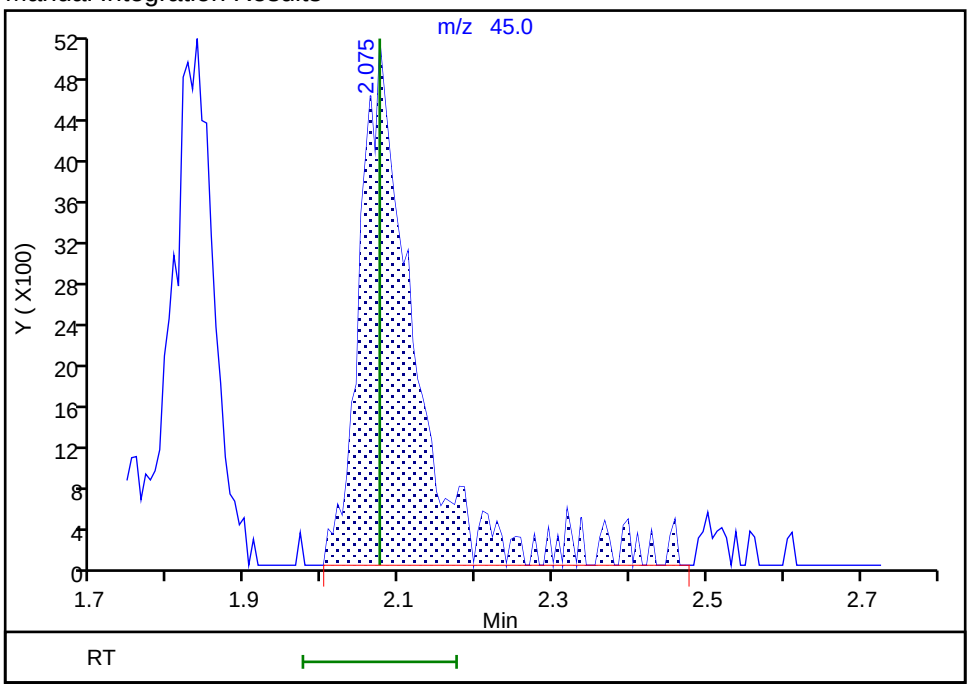
Processing Integration Results

RT: 2.07
Area: 23715
Amount: 0.204183
Amount Units: ug/l



Manual Integration Results

RT: 2.07
Area: 25996
Amount: 0.368005
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:11:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

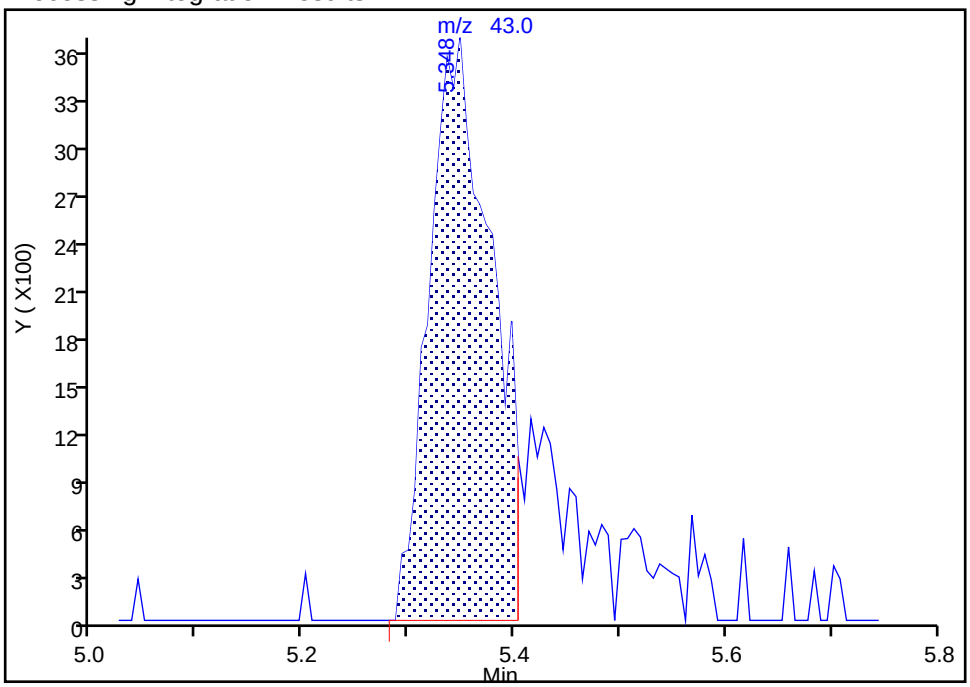
Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I07.D
Injection Date: 30-Jun-2021 17:25:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: jml01693 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

36 Vinyl acetate, CAS: 108-05-4

Signal: 1

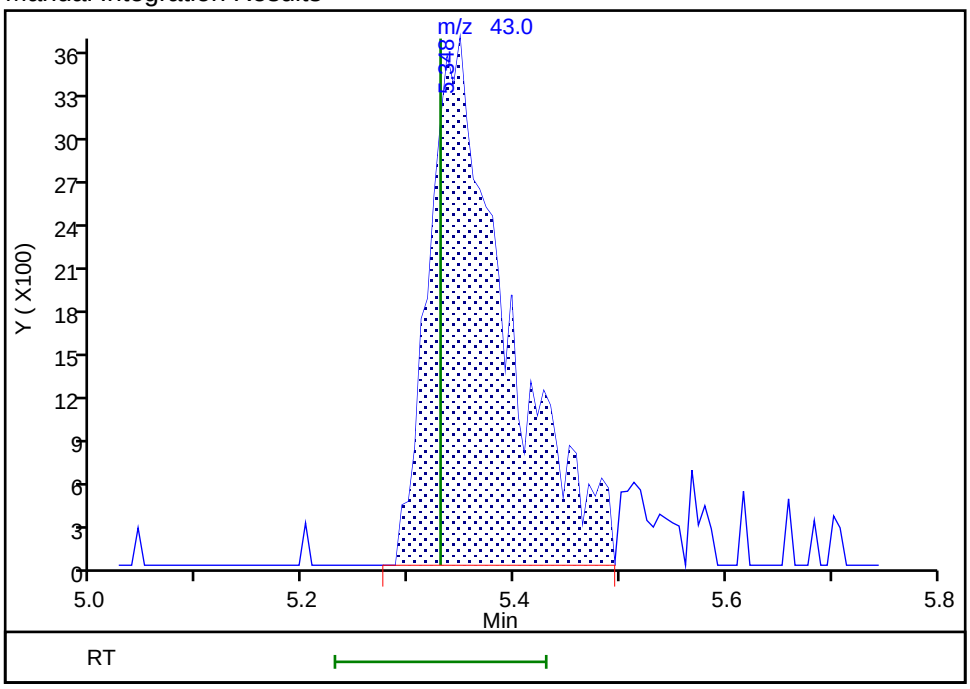
Processing Integration Results

RT: 5.35
Area: 14745
Amount: 0.179639
Amount Units: ug/l



Manual Integration Results

RT: 5.35
Area: 18590
Amount: 0.219150
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:09:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

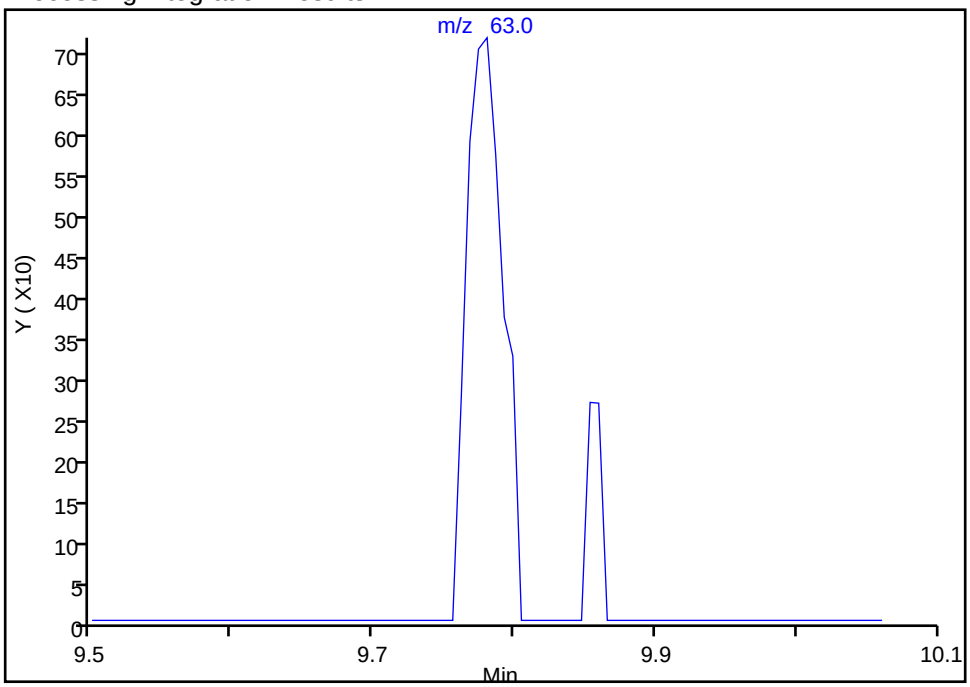
Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I07.D
Injection Date: 30-Jun-2021 17:25:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: jml01693 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

78 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

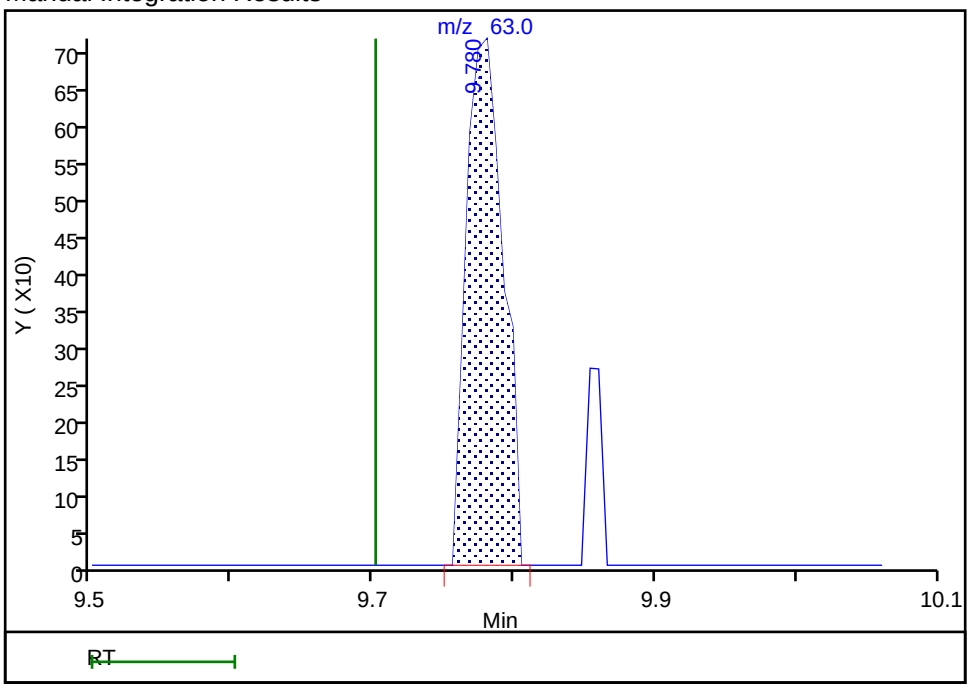
Not Detected
Expected RT: 9.30

Processing Integration Results



Manual Integration Results

RT: 9.78
Area: 1305
Amount: 1.002466
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:10:21
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Calibration / Dimethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

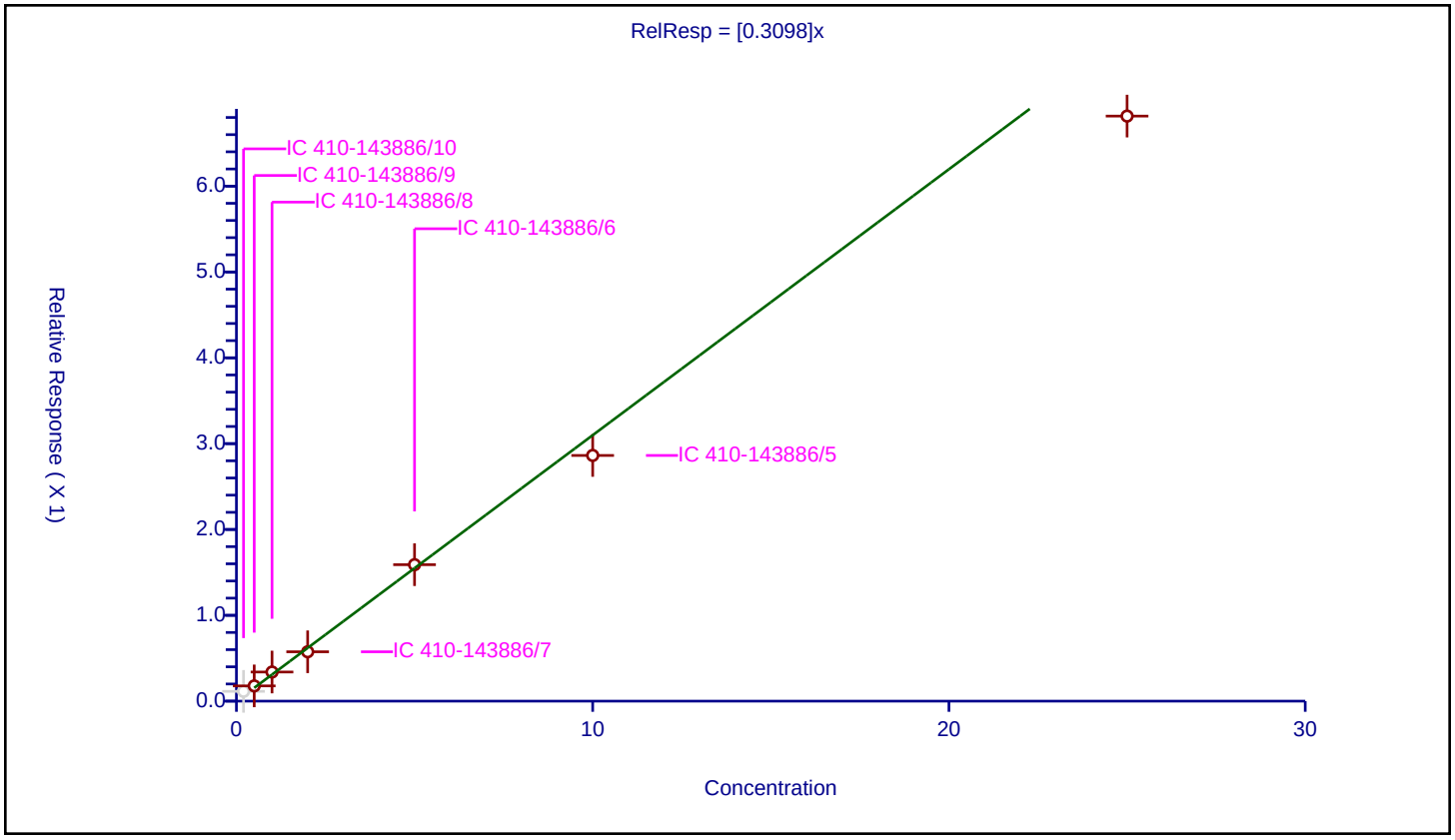
Curve Coefficients

Intercept:	0
Slope:	0.3098

Error Coefficients

Standard Error:	778000
Relative Standard Error:	10.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/10	0.2	0.114024	10.0	2279880.0	0.570118	N
2	IC 410-143886/9	0.5	0.17767	10.0	2269486.0	0.35534	Y
3	IC 410-143886/8	1.0	0.339249	10.0	2261528.0	0.339249	Y
4	IC 410-143886/7	2.0	0.575177	10.0	2266052.0	0.287588	Y
5	IC 410-143886/6	5.0	1.589876	10.0	2270969.0	0.317975	Y
6	IC 410-143886/5	10.0	2.862496	10.0	2281963.0	0.28625	Y
7	IC 410-143886/4	25.0	6.816305	10.0	2295364.0	0.272652	Y



Calibration / Acetonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

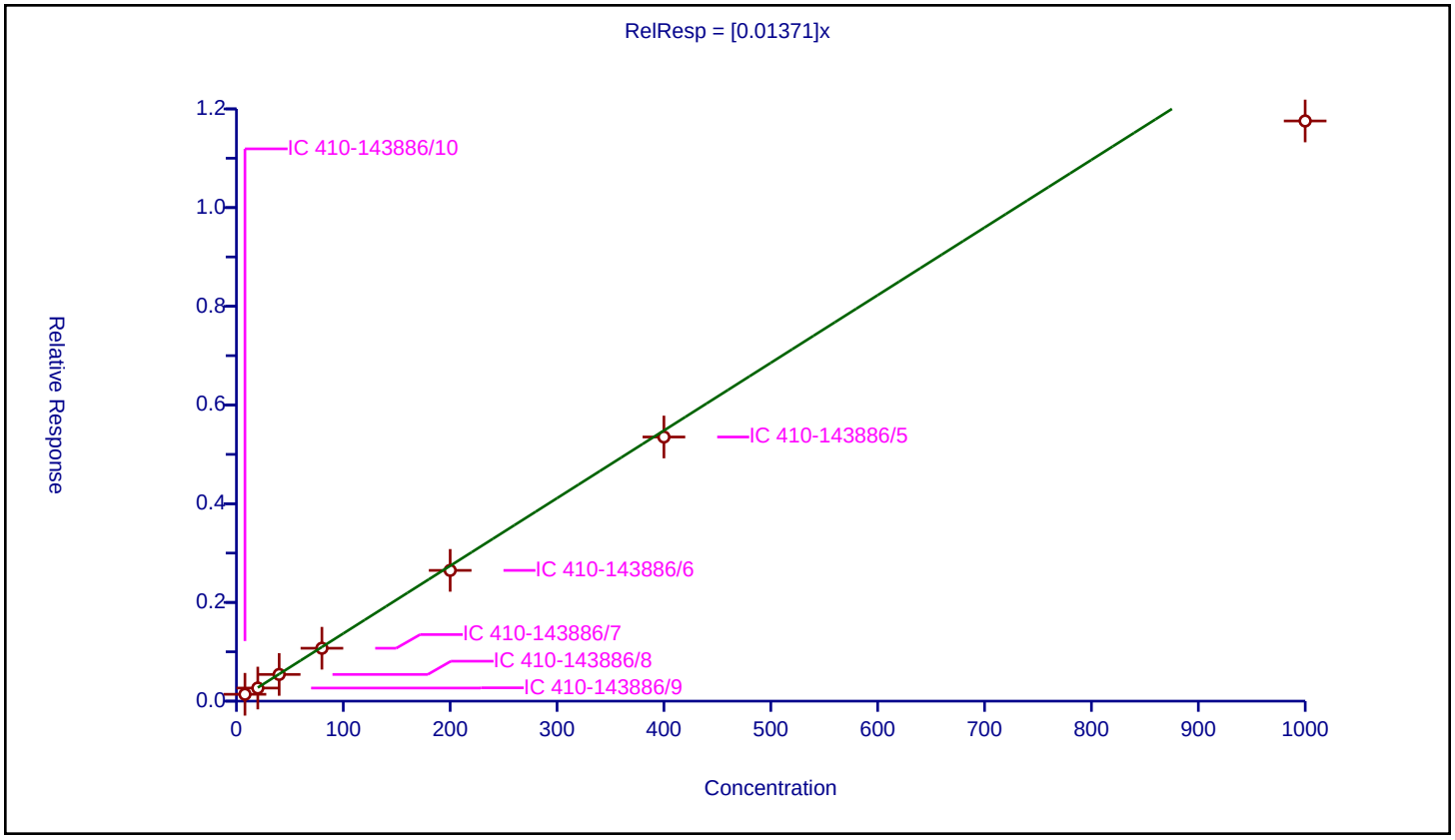
Curve Coefficients

Intercept:	0
Slope:	0.01371

Error Coefficients

Standard Error:	1240000
Relative Standard Error:	12.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/10	7.999434	0.139038	10.0	2279880.0	0.017381	Y
2	IC 410-143886/9	19.998586	0.265377	10.0	2269486.0	0.01327	Y
3	IC 410-143886/8	39.997171	0.54117	10.0	2261528.0	0.01353	Y
4	IC 410-143886/7	79.994342	1.07193	10.0	2266052.0	0.0134	Y
5	IC 410-143886/6	199.985856	2.64927	10.0	2270969.0	0.013247	Y
6	IC 410-143886/5	399.971712	5.351783	10.0	2281963.0	0.01338	Y
7	IC 410-143886/4	999.92928	11.75546	10.0	2295364.0	0.011756	Y



Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

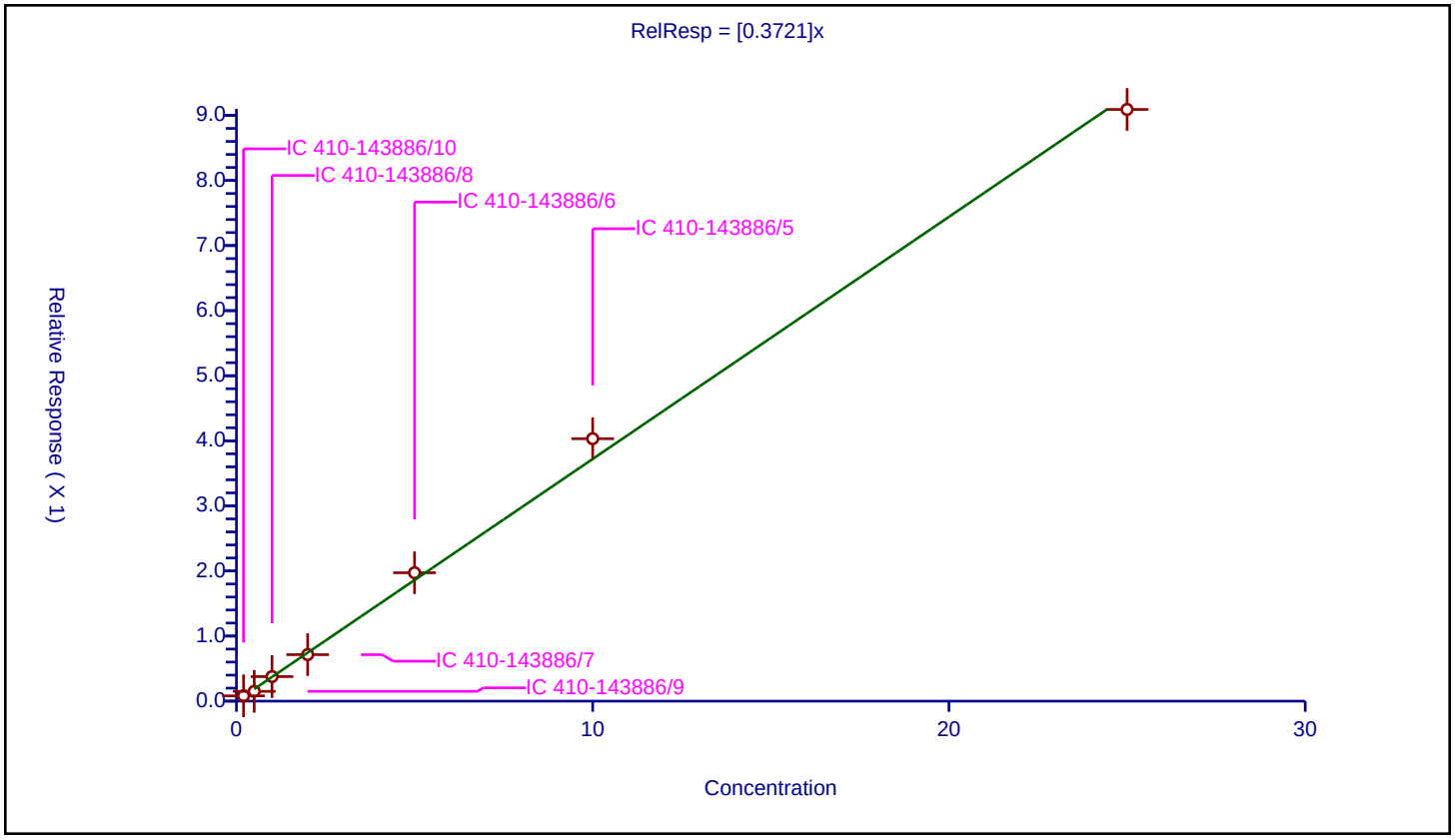
Curve Coefficients

Intercept:	0
Slope:	0.3721

Error Coefficients

Standard Error:	952000
Relative Standard Error:	9.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/10	0.2	0.081539	10.0	2279880.0	0.407697	Y
2	IC 410-143886/9	0.5	0.15058	10.0	2269486.0	0.301161	Y
3	IC 410-143886/8	1.0	0.37698	10.0	2261528.0	0.37698	Y
4	IC 410-143886/7	2.0	0.714401	10.0	2266052.0	0.357201	Y
5	IC 410-143886/6	5.0	1.972704	10.0	2270969.0	0.394541	Y
6	IC 410-143886/5	10.0	4.032585	10.0	2281963.0	0.403259	Y
7	IC 410-143886/4	25.0	9.091395	10.0	2295364.0	0.363656	Y



Calibration / Ethyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

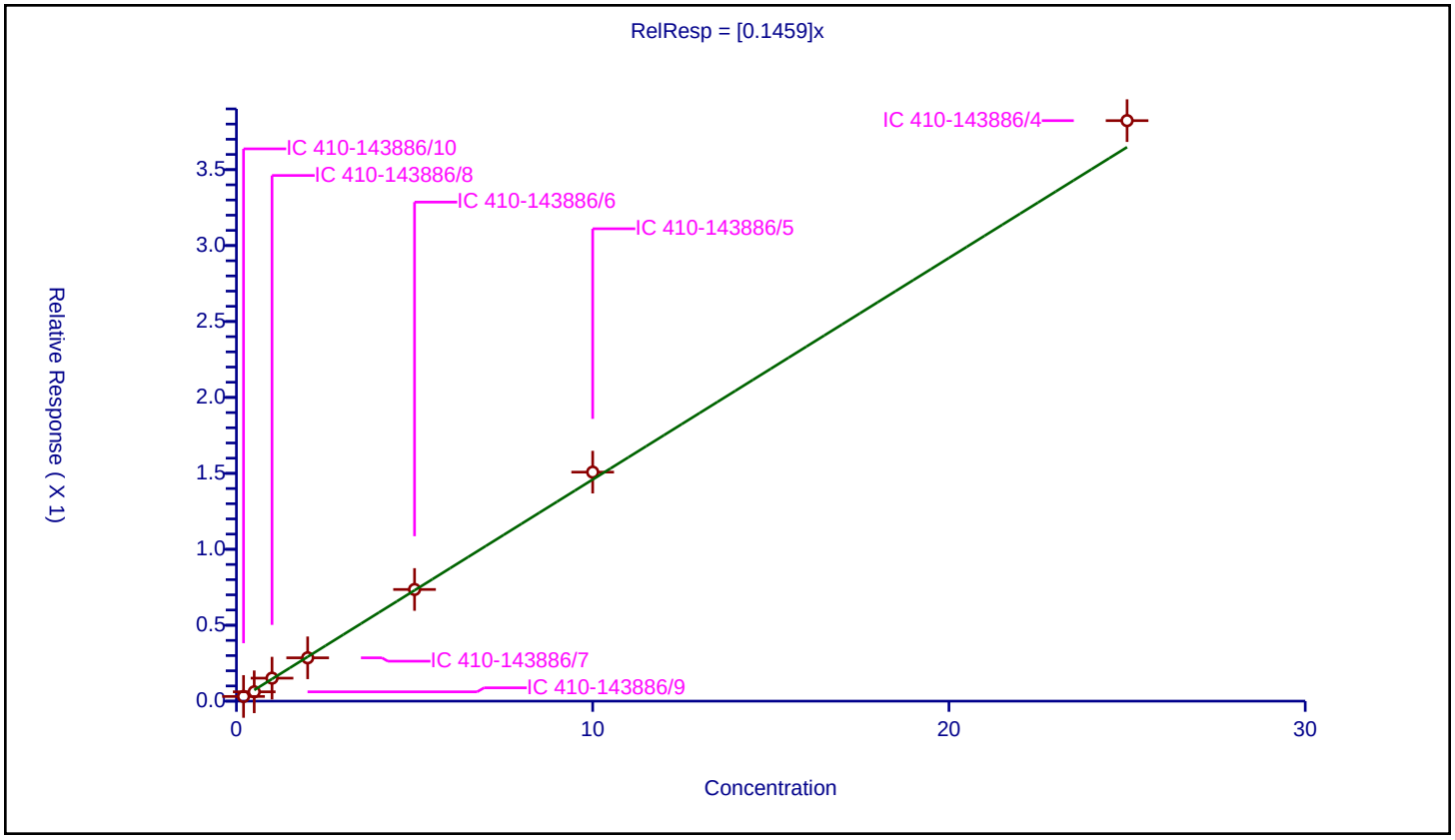
Curve Coefficients

Intercept:	0
Slope:	0.1459

Error Coefficients

Standard Error:	392000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/10	0.2	0.030774	10.0	2279880.0	0.153868	Y
2	IC 410-143886/9	0.5	0.061441	10.0	2269486.0	0.122882	Y
3	IC 410-143886/8	1.0	0.151371	10.0	2261528.0	0.151371	Y
4	IC 410-143886/7	2.0	0.285196	10.0	2266052.0	0.142598	Y
5	IC 410-143886/6	5.0	0.735285	10.0	2270969.0	0.147057	Y
6	IC 410-143886/5	10.0	1.507991	10.0	2281963.0	0.150799	Y
7	IC 410-143886/4	25.0	3.822605	10.0	2295364.0	0.152904	Y



Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

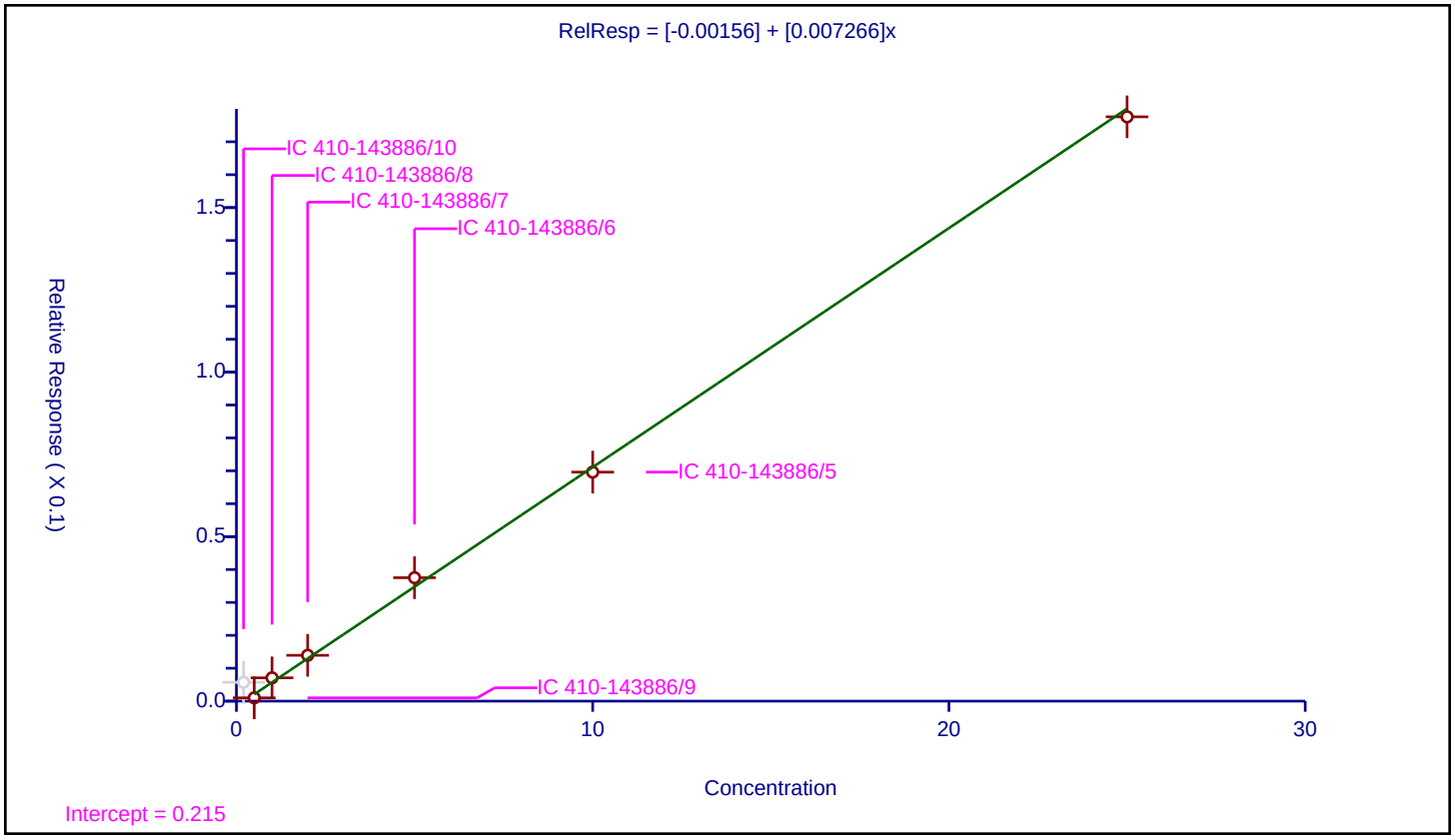
Curve Coefficients

Intercept:	-0.00156
Slope:	0.007266

Error Coefficients

Standard Error:	22400
Relative Standard Error:	18.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/10	0.2	0.005724	10.0	2279880.0	0.02862	N
2	IC 410-143886/9	0.5	0.001	10.0	2269486.0	0.002	Y
3	IC 410-143886/8	1.0	0.007075	10.0	2261528.0	0.007075	Y
4	IC 410-143886/7	2.0	0.013927	10.0	2266052.0	0.006964	Y
5	IC 410-143886/6	5.0	0.037513	10.0	2270969.0	0.007503	Y
6	IC 410-143886/5	10.0	0.069607	10.0	2281963.0	0.006961	Y
7	IC 410-143886/4	25.0	0.177584	10.0	2295364.0	0.007103	Y



Calibration / cis-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

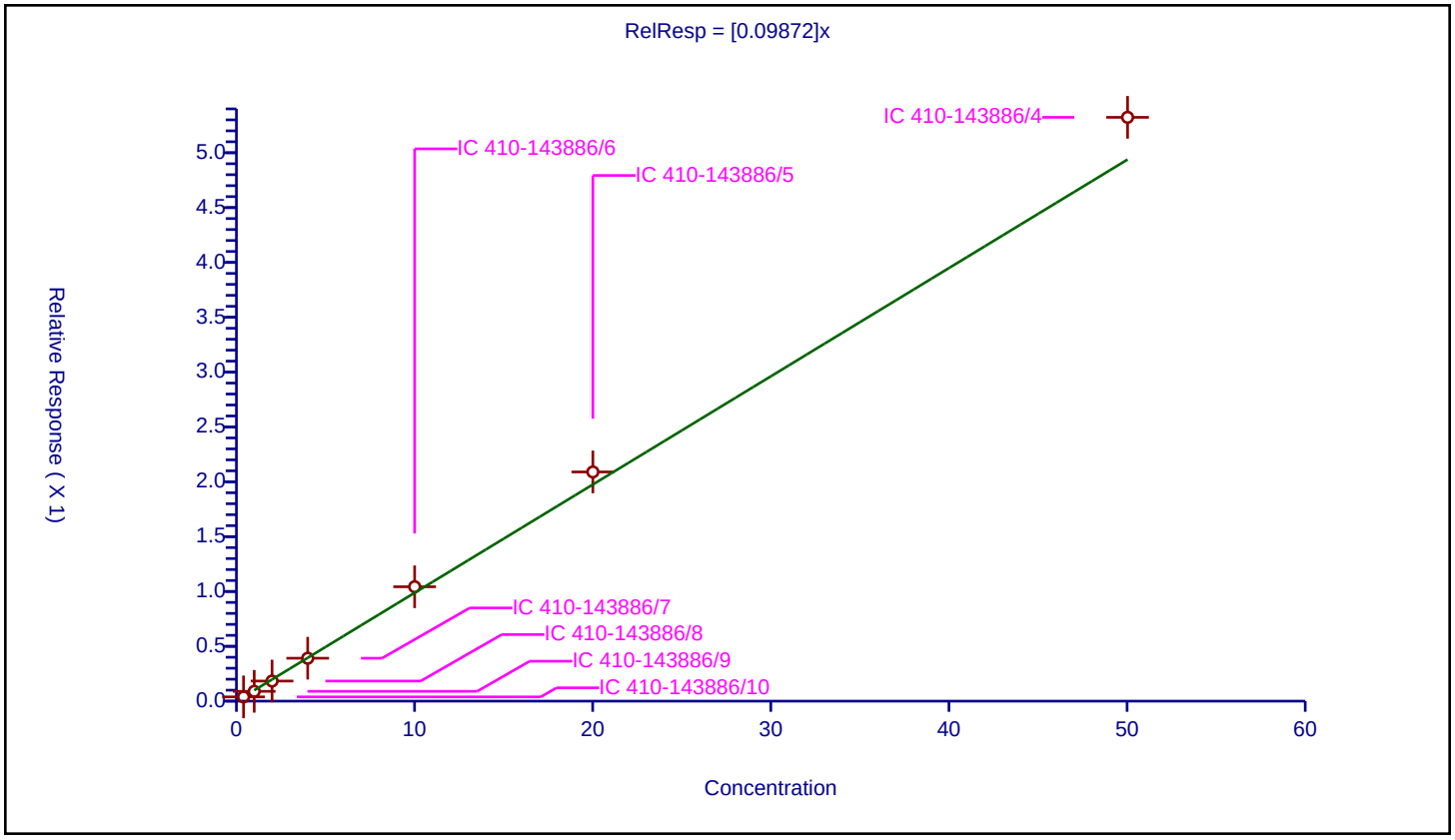
Curve Coefficients

Intercept:	0
Slope:	0.09872

Error Coefficients

Standard Error:	406000
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 410-143886/10	0.400225	0.038851	10.0	1702414.0	0.097072	Y
2	IC 410-143886/9	1.000562	0.089602	10.0	1672175.0	0.089552	Y
3	IC 410-143886/8	2.001123	0.183246	10.0	1692477.0	0.091572	Y
4	IC 410-143886/7	4.002247	0.39122	10.0	1676015.0	0.09775	Y
5	IC 410-143886/6	10.005617	1.042975	10.0	1676224.0	0.104239	Y
6	IC 410-143886/5	20.011233	2.089709	10.0	1696265.0	0.104427	Y
7	IC 410-143886/4	50.028083	5.323086	10.0	1710506.0	0.106402	Y



Calibration / Cyclohexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

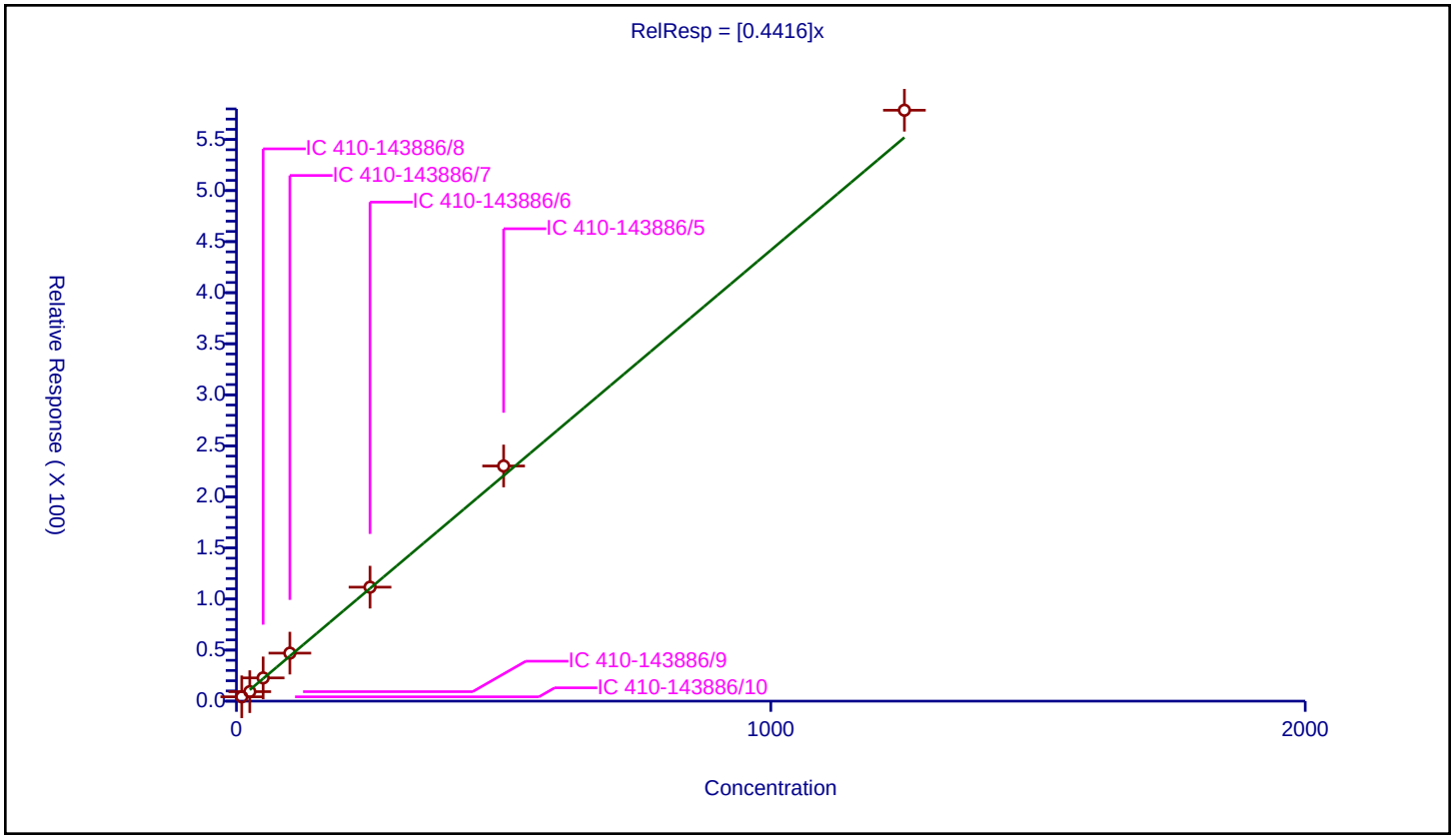
Curve Coefficients

Intercept:	0
Slope:	0.4416

Error Coefficients

Standard Error:	567000
Relative Standard Error:	7.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/10	10.000101	4.238223	50.0	112382.0	0.423818	Y
2	IC 410-143886/9	25.000252	9.310049	50.0	117878.0	0.372398	Y
3	IC 410-143886/8	50.000503	22.748834	50.0	113841.0	0.454972	Y
4	IC 410-143886/7	100.001006	47.024302	50.0	116124.0	0.470238	Y
5	IC 410-143886/6	250.002516	111.614474	50.0	113746.0	0.446453	Y
6	IC 410-143886/5	500.005032	230.294476	50.0	114237.0	0.460584	Y
7	IC 410-143886/4	1250.01258	578.698012	50.0	108511.0	0.462954	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 18:47 Calibration End Date: 06/30/2021 20:52 Calibration ID: 28257

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-143886/20	HU30I17.D
Level 2	IC 410-143886/19	HU30I16.D
Level 3	IC 410-143886/18	HU30I15.D
Level 4	IC 410-143886/17	HU30I14.D
Level 5	IC 410-143886/16	HU30I13.D
Level 6	ICIS 410-143886/15	HU30I12.D
Level 7	IC 410-143886/14	HU30I11.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	0.2801 0.2877	0.2803 0.2806	0.2794	0.2930	0.2846	Ave		0.2837			0.1000	1.8		20.0			
Chloromethane	0.3461 0.3372	0.3662 0.3405	0.3394	0.3405	0.3332	Ave		0.3433			0.1000	3.2		20.0			
1,3-Butadiene	0.2955 0.3178	0.3364 0.3067	0.3286	0.3303	0.3063	Ave		0.3174				4.8		20.0			
Vinyl chloride	0.3486 0.3520	0.3484 0.3515	0.3523	0.3367	0.3380	Ave		0.3468			0.1000	1.9		20.0			
Bromomethane	0.2608 0.2503	0.2690 0.2531	0.2530	0.2584	0.2517	Ave		0.2566			0.1000	2.6		20.0			
Chloroethane	0.2265 0.2161	0.2361 0.2212	0.2232	0.2290	0.2178	Ave		0.2243			0.1000	3.1		20.0			
Dichlorofluoromethane	0.5192 0.5082	0.5332 0.5116	0.5201	0.5237	0.5026	Ave		0.5169			0.1000	2.0		20.0			
Trichlorofluoromethane	0.4380 0.4583	0.4658 0.4549	0.4572	0.4707	0.4498	Ave		0.4564			0.1000	2.3		20.0			
Ethyl ether	0.1847 0.1984	0.2069 0.1978	0.1958	0.1981	0.1992	Ave		0.1973				3.3		20.0			
Freon 123a	0.3685 0.3610	0.3738 0.3614	0.3556	0.3720	0.3571	Ave		0.3642				2.0		20.0			
Acrolein	2.8510 3.0387	2.8034 2.8695	2.9679	2.9178	2.8719	Ave		2.9029				2.7		20.0			
1,1-Dichloroethene	0.2815 0.2548	0.2760 0.2598	0.2614	0.2638	0.2546	Ave		0.2646			0.1000	3.9		20.0			
Acetone	4.5008 3.2885	4.3061 3.1158	3.6229	3.4827	3.3808	Ave		3.6711			0.1000	14.4		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.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 18:47 Calibration End Date: 06/30/2021 20:52 Calibration ID: 28257

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	0.2708 0.2768	0.2787 0.2801	0.2861	0.2928	0.2835	Ave		0.2813			0.1000	2.5		20.0			
Methyl iodide	0.4657 0.4556	0.4852 0.4678	0.4471	0.4684	0.4629	Ave		0.4647				2.5		20.0			
Carbon disulfide	0.8259 0.7707	0.8196 0.8012	0.7694	0.7997	0.7797	Ave		0.7952			0.1000	2.9		20.0			
Methyl acetate	12.785 10.406	13.272 10.828	8.9668	9.4124	10.748	Ave		10.917			0.1000	14.7		20.0			
Allyl chloride	0.4912 0.4487	0.4852 0.4646	0.4528	0.4730	0.4542	Ave		0.4671				3.6		20.0			
Methylene Chloride	0.2850 0.2685	0.2881 0.2755	0.2746	0.2793	0.2713	Ave		0.2775			0.1000	2.6		20.0			
t-Butyl alcohol	1.1424 1.0678	1.2932 1.0923	1.1097	1.1579	1.1360	Ave		1.1428				6.4		20.0			
Acrylonitrile	4.6120 4.9293	4.6248 4.8444	4.6356	4.8208	5.0692	Ave		4.7909				3.7		20.0			
Methyl tert-butyl ether	0.6292 0.6066	0.6672 0.6137	0.6249	0.6247	0.6232	Ave		0.6271			0.1000	3.1		20.0			
trans-1,2-Dichloroethene	0.2980 0.2761	0.3039 0.2818	0.2777	0.2835	0.2786	Ave		0.2856			0.1000	3.8		20.0			
n-Hexane	0.4362 0.4583	0.4537 0.4624	0.4561	0.4722	0.4627	Ave		0.4574				2.4		20.0			
1,1-Dichloroethane	0.5143 0.5158	0.5364 0.5321	0.5200	0.5271	0.5257	Ave		0.5245			0.2000	1.6		20.0			
di-Isopropyl ether	0.8928 0.9072	0.9321 0.9256	0.9115	0.9267	0.9217	Ave		0.9168				1.5		20.0			
2-Chloro-1,3-butadiene	0.4382 0.4430	0.4445 0.4554	0.4399	0.4426	0.4374	Ave		0.4430				1.4		20.0			
Ethyl t-butyl ether	0.8061 0.7786	0.8194 0.7909	0.7824	0.8076	0.7941	Ave		0.7970				1.8		20.0			
2-Butanone (MEK)	6.0251 6.3613	5.8765 6.2396	6.3030	6.0033	6.1798	Ave		6.1412			0.1000	2.9		20.0			
cis-1,2-Dichloroethene	0.3456 0.2990	0.3249 0.3090	0.3072	0.3140	0.3071	Ave		0.3153			0.1000	4.9		20.0			
2,2-Dichloropropane	0.4466 0.4243	0.4328 0.4313	0.4177	0.4241	0.4200	Ave		0.4281				2.3		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.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 18:47 Calibration End Date: 06/30/2021 20:52 Calibration ID: 28257

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	1.7016 1.7827	1.8351 1.6963	1.7354	1.7474	1.6927	Ave		1.7416				3.0		20.0			
Methacrylonitrile	6.0292 6.6147	6.4182 6.5437	6.4189	6.3691	6.4778	Ave		6.4102				2.9		20.0			
Bromochloromethane	0.1243 0.1227	0.1308 0.1283	0.1229	0.1289	0.1253	Ave		0.1262				2.5		20.0			
Tetrahydrofuran	1.6144 1.7388	1.7436 1.6476	1.7759	1.7005	1.6984	Ave		1.7027				3.3		20.0			
Chloroform	0.4886 0.4831	0.5069 0.5010	0.4878	0.4951	0.4888	Ave		0.4930			0.2000	1.7		20.0			
1,1,1-Trichloroethane	0.4780 0.4404	0.4619 0.4557	0.4399	0.4485	0.4457	Ave		0.4529			0.1000	3.0		20.0			
Cyclohexane	0.5539 0.5641	0.5644 0.5717	0.5673	0.5954	0.5713	Ave		0.5697			0.1000	2.2		20.0			
1,1-Dichloropropene	0.4197 0.4102	0.4206 0.4241	0.4081	0.4244	0.4099	Ave		0.4167				1.7		20.0			
Carbon tetrachloride	0.4044 0.3893	0.3870 0.3969	0.3779	0.3933	0.3891	Ave		0.3911			0.1000	2.1		20.0			
Isobutyl alcohol	0.4998 0.4158	0.4737 0.3953	0.4387	0.4077	0.4040	Ave		0.4336				9.1		20.0			
Benzene	1.2355 1.1654	1.2258 1.2010	1.1641	1.2109	1.1796	Ave		1.1975			0.5000	2.4		20.0			
1,2-Dichloroethane	0.3263 0.2753	0.3031 0.2886	0.2949	0.2736	0.2858	Ave		0.2925			0.1000	6.2		20.0			
t-Amyl methyl ether	0.7025 0.6816	0.7269 0.6971	0.6900	0.7100	0.7003	Ave		0.7012				2.1		20.0			
n-Heptane	0.5006 0.4912	0.5157 0.4854	0.4977	0.5147	0.4873	Ave		0.4989				2.5		20.0			
n-Butanol	0.3770 0.3920	0.3860 0.3742	0.3606	0.3814	0.3871	Ave		0.3797				2.7		20.0			
Trichloroethene	0.2983 0.3031	0.3145 0.3138	0.3054	0.3197	0.3029	Ave		0.3083			0.2000	2.5		20.0			
Methylcyclohexane	0.5789 0.5763	0.5764 0.5790	0.5743	0.6056	0.5888	Ave		0.5828			0.1000	1.9		20.0			
1,2-Dichloropropane	0.3015 0.3036	0.3178 0.3104	0.3110	0.3163	0.3073	Ave		0.3097			0.1000	2.0		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.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 18:47 Calibration End Date: 06/30/2021 20:52 Calibration ID: 28257

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	10.610 12.494	11.930 12.692	11.507	11.345	12.058	Ave		11.805				6.1		20.0			
1,4-Dioxane	0.0652 0.0818	0.0755 0.0712	0.0783	0.0885	0.0802	Ave		0.0773			0.0050	9.8		20.0			
Dibromomethane	0.1296 0.1317	0.1328 0.1352	0.1315	0.1374	0.1316	Ave		0.1328				2.0		20.0			
Bromodichloromethane	0.3456 0.3432	0.3316 0.3603	0.3388	0.3546	0.3504	Ave		0.3464			0.2000	2.8		20.0			
2-Nitropropane	3.3749 3.1775	2.8540 3.1895	3.0493	3.0341	3.1620	Ave		3.1202				5.2		20.0			
cis-1,3-Dichloropropene	0.4271 0.4521	0.4353 0.4708	0.4382	0.4614	0.4528	Ave		0.4483			0.2000	3.4		20.0			
4-Methyl-2-pentanone (MIBK)	13.760 16.023	15.433 15.813	15.443	15.400	15.731	Ave		15.372			0.1000	4.9		20.0			
Toluene	1.0740 1.0044	1.0031 1.0228	1.0305	1.0291	1.0119	Ave		1.0251			0.4000	2.4		20.0			
trans-1,3-Dichloropropene	0.4455 0.4904	0.4797 0.5007	0.4728	0.4894	0.4817	Ave		0.4800			0.1000	3.7		20.0			
Ethyl methacrylate	0.3279 0.3811	0.3507 0.3875	0.3609	0.3774	0.3843	Ave		0.3671				5.9		20.0			
1,1,2-Trichloroethane	0.2549 0.2608	0.2511 0.2635	0.2602	0.2684	0.2709	Ave		0.2614			0.1000	2.7		20.0			
Tetrachloroethene	0.4471 0.4409	0.4432 0.4552	0.4327	0.4530	0.4398	Ave		0.4446			0.2000	1.8		20.0			
1,3-Dichloropropane	0.4315 0.4563	0.4360 0.4656	0.4604	0.4725	0.4573	Ave		0.4542				3.3		20.0			
2-Hexanone	9.7068 10.989	10.197 10.997	10.548	10.379	10.783	Ave		10.514			0.1000	4.4		20.0			
Dibromochloromethane	0.3123 0.3260	0.3298 0.3388	0.3118	0.3262	0.3278	Ave		0.3246				3.0		20.0			
1,2-Dibromoethane (EDB)	0.2575 0.2492	0.2521 0.2538	0.2497	0.2492	0.2526	Ave		0.2520			0.1000	1.2		20.0			
1-Chlorohexane	0.6775 0.6035	0.6291 0.6151	0.6036	0.6235	0.6073	Ave		0.6228				4.2		20.0			
Chlorobenzene	1.0837 1.0746	1.0960 1.0994	1.0736	1.1022	1.0779	Ave		1.0868			0.5000	1.1		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.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 18:47 Calibration End Date: 06/30/2021 20:52 Calibration ID: 28257

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	0.3649 0.3693	0.3768 0.3793	0.3613	0.3771	0.3683	Ave		0.3710				1.8		20.0			
Ethylbenzene	1.9147 1.9179	1.9442 1.9737	1.8935	1.9633	1.9388	Ave		1.9351			0.1000	1.5		20.0			
m&p-Xylene	0.7127 0.7430	0.7206 0.7689	0.7296	0.7530	0.7496	Ave		0.7396			0.1000	2.7		20.0			
o-Xylene	0.7213 0.7315	0.7173 0.7546	0.7186	0.7468	0.7362	Ave		0.7323			0.3000	2.0		20.0			
Styrene	1.1258 1.1913	1.1381 1.2412	1.1354	1.1895	1.1869	Ave		1.1726			0.3000	3.5		20.0			
Bromoform	0.1683 0.1840	0.1742 0.1912	0.1723	0.1823	0.1839	Ave		0.1795			0.1000	4.5		20.0			
Isopropylbenzene	1.8045 1.9052	1.8377 1.9765	1.8679	1.9260	1.9065	Ave		1.8892			0.1000	3.0		20.0			
1,1,2,2-Tetrachloroethane	0.6104 0.5998	0.6303 0.5984	0.5848	0.6006	0.6162	Ave		0.6058			0.3000	2.4		20.0			
Bromobenzene	0.7224 0.7742	0.7632 0.8014	0.7712	0.7761	0.7731	Ave		0.7688				3.1		20.0			
trans-1,4-Dichloro-2-butene	4.8070 5.6261	5.0964 5.8227	5.5245	5.4125	5.4915	Ave		5.3972				6.3		20.0			
1,2,3-Trichloropropane	0.1391 0.1525	0.1671 0.1504	0.1585	0.1588	0.1567	Ave		0.1547				5.6		20.0			
N-Propylbenzene	4.0573 4.2448	4.1666 4.3983	4.1371	4.3509	4.3009	Ave		4.2365				2.9		20.0			
2-Chlorotoluene	0.7825 0.8257	0.8488 0.8553	0.8205	0.8276	0.8378	Ave		0.8283				2.9		20.0			
1,3,5-Trimethylbenzene	2.8244 2.9835	2.9570 3.1007	2.8763	3.0336	2.9792	Ave		2.9650				3.1		20.0			
4-Chlorotoluene	0.7779 0.8429	0.8360 0.8616	0.8182	0.8583	0.8563	Ave		0.8359				3.6		20.0			
tert-Butylbenzene	0.6663 0.6362	0.6595 0.6628	0.6247	0.6423	0.6252	Ave		0.6453				2.7		20.0			
Pentachloroethane	0.4550 0.4908	0.4780 0.5038	0.4593	0.4765	0.4882	Ave		0.4788				3.6		20.0			
1,2,4-Trimethylbenzene	2.8721 3.0495	2.9993 3.1534	2.9820	3.0316	3.0829	Ave		3.0244				2.9		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.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 18:47 Calibration End Date: 06/30/2021 20:52 Calibration ID: 28257

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	3.5372 3.8081	3.6032 3.9748	3.6568	3.8416	3.7949	Ave		3.7452				4.1		20.0			
1,3-Dichlorobenzene	1.5138 1.5785	1.6102 1.6487	1.5743	1.5836	1.5822	Ave		1.5845			0.6000	2.6		20.0			
p-Isopropyltoluene	2.9892 3.2174	3.0659 3.3633	3.0852	3.2532	3.2028	Ave		3.1681				4.0		20.0			
1,4-Dichlorobenzene	1.5146 1.5711	1.5193 1.6218	1.5384	1.5853	1.5827	Ave		1.5619			0.5000	2.5		20.0			
1,2,3-Trimethylbenzene	1.3450 1.3234	1.3601 1.3746	1.3247	1.3389	1.3517	Ave		1.3455				1.4		20.0			
Benzyl chloride	0.2240 0.2567	0.2481 0.2648	0.2374	0.2487	0.2591	Ave		0.2484				5.6		20.0			
n-Butylbenzene	1.4947 1.6354	1.5116 1.7122	1.5606	1.6251	1.6287	Ave		1.5955				4.8		20.0			
1,2-Dichlorobenzene	1.3718 1.4441	1.4448 1.4887	1.3860	1.4660	1.4511	Ave		1.4361			0.4000	2.9		20.0			
1,2-Dibromo-3-Chloropropane	0.0888 0.0850	0.0826 0.0865	0.0867	0.0918	0.0883	Ave		0.0871			0.0500	3.4		20.0			
1,3,5-Trichlorobenzene	1.0747 1.1419	1.1432 1.2133	1.1188	1.1664	1.1508	Ave		1.1442				3.7		20.0			
1,2,4-Trichlorobenzene	0.9089 0.9782	0.9298 1.0386	0.9376	0.9996	0.9884	Ave		0.9687			0.2000	4.7		20.0			
Hexachlorobutadiene	0.5483 0.4151	0.4378 0.4468	0.4276	0.4215	0.4102	Ave		0.4439				10.8		20.0			
Naphthalene	1.6870 1.8834	1.8684 1.9279	1.8929	1.8962	1.9372	Ave		1.8704				4.5		20.0			
1,2,3-Trichlorobenzene	0.8277 0.8346	0.8222 0.8789	0.8177	0.8668	0.8385	Ave		0.8409				2.8		20.0			
Dibromofluoromethane (Surr)	0.2415 0.2428	0.2423 0.2446	0.2399	0.2391	0.2432	Ave		0.2419				0.8		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0489 0.0496	0.0478 0.0488	0.0495	0.0480	0.0494	Ave		0.0489				1.5		20.0			
Toluene-d8 (Surr)	1.3467 1.3557	1.3408 1.3324	1.3394	1.3448	1.3461	Ave		1.3437				0.5		20.0			
4-Bromofluorobenzene (Surr)	0.4882 0.4900	0.4872 0.4906	0.4933	0.4922	0.4910	Ave		0.4904				0.4		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 18:47 Calibration End Date: 06/30/2021 20:52 Calibration ID: 28257

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-143886/20	HU30I17.D
Level 2	IC 410-143886/19	HU30I16.D
Level 3	IC 410-143886/18	HU30I15.D
Level 4	IC 410-143886/17	HU30I14.D
Level 5	IC 410-143886/16	HU30I13.D
Level 6	ICIS 410-143886/15	HU30I12.D
Level 7	IC 410-143886/14	HU30I11.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	13019 681423	32672 1601690	66364	138915	338189	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	16089 798647	42684 1943433	80619	161392	395924	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	13736 752797	39212 1750592	78040	156564	363910	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	16206 833802	40611 2006367	83686	159630	401544	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	12123 592976	31357 1444659	60093	122506	299014	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	10530 511990	27515 1262397	53016	108575	258719	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	24134 1203800	62144 2919773	123533	248263	597161	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	20361 1085631	54287 2596449	108599	223111	534454	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	8587 470003	24120 1128889	46497	93912	236665	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 123a	FB	Ave	17132 855150	43574 2062910	84470	176353	424338	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd 10	Ave	72018 3764378	179558 8625987	377461	761837	1871143	10.0 500	25.0 1250	50.0	100	250
1,1-Dichloroethene	FB	Ave	13087 603570	32175 1482963	62094	125071	302484	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBAd 10	Ave	22738	55161	92153	181864	440548	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.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 18:47 Calibration End Date: 06/30/2021 20:52 Calibration ID: 28257

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
			814769	1873303				100	250			
Freon 113	FB	Ave	12587 655709	32486 1598905	67947	138808	336832	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl iodide	FB	Ave	21648 1079294	56553 2669715	106201	222043	549957	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon disulfide	FB	Ave	38392 1825531	95530 4572744	182745	379081	926405	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd 10	Ave	6459 257817	17001 650971	22808	49151	140053	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	22835 1062825	56549 2651483	107556	224215	539661	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	13248 636060	33585 1572369	65226	132393	322305	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd 10	Ave	11543 529129	33132 1313366	56455	120927	296069	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd 10	Ave	5825 305323	14811 728138	29478	62935	165139	0.500 25.0	1.25 62.5	2.50	5.00	12.5
Methyl tert-butyl ether	FB	Ave	29252 1437005	77764 3502835	148415	296149	740461	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	13853 653905	35425 1608114	65953	134377	331027	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	20277 1085556	52878 2639188	108339	223862	549761	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	23907 1221895	62520 3037061	123496	249883	624577	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	41506 2149011	108639 5282775	216486	439271	1095077	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	20370 1049389	51812 2599089	104470	209804	519671	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	37475 1844217	95509 4513870	185822	382829	943498	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone (MEK)	TBAd 10	Ave	30439	75278	160322	313488	805274	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.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 18:47 Calibration End Date: 06/30/2021 20:52 Calibration ID: 28257

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
			1576072	3751385				100	250			
cis-1,2-Dichloroethene	FB	Ave	16068 708268	37869 1763529	72968	148841	364845	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	20763 1005080	50450 2461884	99215	201027	498977	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Propionitrile	TBAd 10	Ave	17193 883346	47015 2039729	88284	182497	441133	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd 10	Ave	30460 1638847	82218 3934230	163270	332590	844113	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	5780 290657	15243 732281	29194	61080	148844	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd 10	Ave	4078 215405	11168 495275	22586	44399	110660	1.00 50.0	2.50 125	5.00	10.0	25.0
Chloroform	FB	Ave	22713 1144290	59078 2859455	115860	234689	580702	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	22220 1043111	53837 2600800	104482	212588	529529	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	25749 1336164	65783 3263229	134731	282228	678761	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	19511 971750	49023 2420777	96932	201187	486976	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	18800 922051	45103 2265363	89759	186450	462265	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	TBAd 10	Ave	12626 515052	30343 1188172	55793	106453	263232	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	57437 2760550	142873 6854464	276493	574020	1401511	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	15168 652043	35331 1647253	70042	129699	339565	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	32655 1614611	84725 3978983	163890	336551	832079	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	23273	60114	118198	244002	578975	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.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 18:47 Calibration End Date: 06/30/2021 20:52 Calibration ID: 28257

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
			1163443	2770496				10.0	25.0			
n-Butanol	TBAd 10	Ave	16666 849724	43261 1968337	80263	174266	441342	17.5 875	43.8 2188	87.5	175	438
Trichloroethene	FB	Ave	13869 717979	36661 1790967	72534	151559	359861	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	26913 1365125	67186 3304385	136413	287061	699533	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	14017 719136	37045 1771566	73856	149923	365053	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl methacrylate	TBAd 10	Ave	5360 309542	15282 763044	29268	59244	157123	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBAd 10	Ave	1646 101395	4839 214174	9956	23116	52279	10.0 500	25.0 1250	50.0	100	250
Dibromomethane	FB	Ave	6025 312009	15480 771631	31242	65152	156400	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromodichloromethane	FB	Ave	16067 812931	38647 2056360	80478	168091	416299	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBAd 10	Ave	8525 393627	18280 958802	38781	79219	206014	1.00 50.0	2.50 125	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	19856 1070830	50741 2687299	104079	218728	538018	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone (MIBK)	TBAd 10	Ave	69516 3969771	197694 9506976	392816	804194	2049827	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd 5	Ave	36703 1749612	85514 4372182	181542	358689	886869	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd 5	Ave	15224 854205	40897 2140328	83292	170576	422144	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd 5	Ave	11206	29902	63584	131550	336840	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.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 18:47 Calibration End Date: 06/30/2021 20:52 Calibration ID: 28257

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
			663882	1656748				10.0	25.0			
1,1,2-Trichloroethane	CBZd 5	Ave	8711 454387	21410 1126535	45845	93531	237393	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd 5	Ave	15278 768025	37787 1946076	76238	157898	385439	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd 5	Ave	14747 794846	37169 1990239	81109	164681	400827	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBAd 10	Ave	49039 2722733	130621 6611635	268297	542006	1405119	2.00 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd 5	Ave	10673 567821	28113 1448318	54928	113678	287250	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane (EDB)	CBZd 5	Ave	8799 434104	21493 1084914	43997	86844	221375	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd 5	Ave	23155 1051311	53627 2629535	106347	217321	532219	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chlorobenzene	CBZd 5	Ave	37034 1871985	93436 4699589	189144	384144	944659	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd 5	Ave	12469 643329	32120 1621389	63655	131450	322791	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd 5	Ave	65435 3340961	165739 8437158	333584	684274	1699157	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd 5	Ave	48715 2588741	122857 6573619	257064	524881	1313906	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd 5	Ave	24649	61149	126601	260295	645238	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.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 18:47 Calibration End Date: 06/30/2021 20:52 Calibration ID: 28257

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
			1274345	3225628				10.0	25.0			
Styrene	CBZd 5	Ave	38473 2075266	97020 5306022	200036	414592	1040181	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd 5	Ave	5750 320604	14848 817361	30349	63547	161178	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd 5	Ave	61669 3318903	156666 8449089	329083	671280	1670865	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	11094 555046	28190 1360580	54467	111158	286285	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd 4	Ave	13130 716404	34134 1822102	71823	143640	359170	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	TBAd 10	Ave	24285 1393924	65285 3500696	140522	282634	715589	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	2529 141094	7472 341976	14760	29390	72812	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd 4	Ave	73743 3928173	186344 10000218	385296	805258	1998081	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd 4	Ave	14222 764082	37963 1944611	76419	153173	389198	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd 4	Ave	51335 2760970	132249 7050045	267877	561452	1384048	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd 4	Ave	14139 779996	37390 1959054	76197	158846	397803	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd 4	Ave	12110	29494	58182	118881	290450	0.200	0.500	1.00	2.00	5.00

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 18:47 Calibration End Date: 06/30/2021 20:52 Calibration ID: 28257

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
			588697	1506920				10.0	25.0			
Pentachloroethane	DCBd 4	Ave	8269 454145	21378 1145428	42777	88184	226799	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd 4	Ave	52202 2822044	134140 7169877	277722	561086	1432252	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd 4	Ave	64290 3524005	161149 9037470	340566	710997	1763011	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichlorobenzene	DCBd 4	Ave	27515 1460720	72016 3748531	146613	293098	735031	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd 4	Ave	54331 2977390	137118 7646950	287327	602094	1487952	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd 4	Ave	27528 1453895	67950 3687456	143278	293408	735276	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd 4	Ave	24446 1224709	60830 3125399	123375	247797	627948	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd 4	Ave	4072 237586	11097 602066	22106	46025	120388	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd 4	Ave	27167 1513367	67602 3893005	145342	300776	756654	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd 4	Ave	24933 1336363	64617 3384925	129078	271331	674154	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1614 78686	3696 196674	8077	16991	41042	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd 4	Ave	19533	51129	104194	215876	534628	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.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 18:47 Calibration End Date: 06/30/2021 20:52 Calibration ID: 28257

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
			1056692	2758645				10.0	25.0			
1,2,4-Trichlorobenzene	DCBd 4	Ave	16520 905237	41586 2361522	87323	185008	459178	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd 4	Ave	9966 384107	19579 1015791	39826	78006	190585	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd 4	Ave	30662 1742873	83563 4383338	176289	350947	899975	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd 4	Ave	15043 772332	36773 1998307	76158	160424	389563	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	561388 575224	564931 558502	569771	566710	577949	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	113679 117405	111322 111500	117606	113733	117358	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd 5	Ave	2301167 2361675	2286008 2278266	2359714	2343496	2359527	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	834134 853639	830728 838893	869052	857695	860567	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.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 18:47 Calibration End Date: 06/30/2021 20:52 Calibration ID: 28257

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-143886/20	HU30I17.D
Level 2	IC 410-143886/19	HU30I16.D
Level 3	IC 410-143886/18	HU30I15.D
Level 4	IC 410-143886/17	HU30I14.D
Level 5	IC 410-143886/16	HU30I13.D
Level 6	ICIS 410-143886/15	HU30I12.D
Level 7	IC 410-143886/14	HU30I11.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	-1.3 -1.1	-1.2	-1.5	3.3	0.3	1.4	50 30	30	30	30	30	30
Chloromethane	0.8 -0.8	6.7	-1.1	-0.8	-2.9	-1.8	50 30	30	30	30	30	30
1,3-Butadiene	-6.9 -3.4	6.0	3.5	4.1	-3.5	0.1	50 30	30	30	30	30	30
Vinyl chloride	0.5 1.4	0.5	1.6	-2.9	-2.5	1.5	50 30	30	30	30	30	30
Bromomethane	1.6 -1.4	4.8	-1.4	0.7	-1.9	-2.5	50 30	30	30	30	30	30
Chloroethane	1.0 -1.4	5.3	-0.5	2.1	-2.9	-3.6	50 30	30	30	30	30	30
Dichlorofluoromethane	0.4 -1.0	3.1	0.6	1.3	-2.8	-1.7	50 30	30	30	30	30	30
Trichlorofluoromethane	-4.0 -0.3	2.1	0.2	3.1	-1.4	0.4	50 30	30	30	30	30	30
Ethyl ether	-6.4 0.3	4.9	-0.8	0.4	1.0	0.6	50 30	30	30	30	30	30
Freon 123a	1.2 -0.8	2.6	-2.4	2.1	-1.9	-0.9	50 30	30	30	30	30	30
Acrolein	-1.8 -1.2	-3.4	2.2	0.5	-1.1	4.7	50 30	30	30	30	30	30
1,1-Dichloroethene	6.4 -1.8	4.3	-1.2	-0.3	-3.8	-3.7	50 30	30	30	30	30	30
Acetone	22.6 -15.1	17.3	-1.3	-5.1	-7.9	-10.4	50 30	30	30	30	30	30
Freon 113	-3.7 -0.4	-0.9	1.7	4.1	0.8	-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.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 18:47 Calibration End Date: 06/30/2021 20:52 Calibration ID: 28257

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	0.2 0.7	4.4	-3.8	0.8	-0.4	-1.9	50 30	30	30	30	30	30
Carbon disulfide	3.9 0.8	3.1	-3.2	0.6	-1.9	-3.1	50 30	30	30	30	30	30
Methyl acetate	17.1 -0.8	21.6	-17.9	-13.8	-1.5	-4.7	50 30	30	30	30	30	30
Allyl chloride	5.2 -0.5	3.9	-3.1	1.3	-2.8	-3.9	50 30	30	30	30	30	30
Methylene Chloride	2.7 -0.7	3.8	-1.0	0.7	-2.2	-3.2	50 30	30	30	30	30	30
t-Butyl alcohol	0.0 -4.4	13.2	-2.9	1.3	-0.6	-6.6	50 30	30	30	30	30	30
Acrylonitrile	-3.7 1.1	-3.5	-3.2	0.6	5.8	2.9	50 30	30	30	30	30	30
Methyl tert-butyl ether	0.3 -2.1	6.4	-0.4	-0.4	-0.6	-3.3	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	4.3 -1.4	6.4	-2.8	-0.8	-2.5	-3.4	50 30	30	30	30	30	30
n-Hexane	-4.6 1.1	-0.8	-0.3	3.3	1.2	0.2	50 30	30	30	30	30	30
1,1-Dichloroethane	-1.9 1.5	2.3	-0.9	0.5	0.2	-1.6	50 30	30	30	30	30	30
di-Isopropyl ether	-2.6 1.0	1.7	-0.6	1.1	0.5	-1.0	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-1.1 2.8	0.3	-0.7	-0.1	-1.3	0.0	50 30	30	30	30	30	30
Ethyl t-butyl ether	1.1 -0.8	2.8	-1.8	1.3	-0.4	-2.3	50 30	30	30	30	30	30
2-Butanone (MEK)	-1.9 1.6	-4.3	2.6	-2.2	0.6	3.6	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	9.6 -2.0	3.1	-2.6	-0.4	-2.6	-5.2	50 30	30	30	30	30	30
2,2-Dichloropropane	4.3 0.8	1.1	-2.4	-0.9	-1.9	-0.9	50 30	30	30	30	30	30
Propionitrile	-2.3 -2.6	5.4	-0.4	0.3	-2.8	2.4	50 30	30	30	30	30	30
Methacrylonitrile	-5.9 2.1	0.1	0.1	-0.6	1.1	3.2	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 18:47 Calibration End Date: 06/30/2021 20:52 Calibration ID: 28257

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	-1.5 1.7	3.7	-2.6	2.1	-0.7	-2.7	50 30	30	30	30	30	30
Tetrahydrofuran	-5.2 -3.2	2.4	4.3	-0.1	-0.3	2.1	50 30	30	30	30	30	30
Chloroform	-0.9 1.6	2.8	-1.1	0.4	-0.9	-2.0	50 30	30	30	30	30	30
1,1,1-Trichloroethane	5.5 0.6	2.0	-2.9	-1.0	-1.6	-2.8	50 30	30	30	30	30	30
Cyclohexane	-2.8 0.4	-0.9	-0.4	4.5	0.3	-1.0	50 30	30	30	30	30	30
1,1-Dichloropropene	0.7 1.8	0.9	-2.1	1.8	-1.6	-1.6	50 30	30	30	30	30	30
Carbon tetrachloride	3.4 1.5	-1.1	-3.4	0.6	-0.5	-0.5	50 30	30	30	30	30	30
Isobutyl alcohol	15.3 -8.8	9.3	1.2	-6.0	-6.8	-4.1	50 30	30	30	30	30	30
Benzene	3.2 0.3	2.4	-2.8	1.1	-1.5	-2.7	50 30	30	30	30	30	30
1,2-Dichloroethane	11.5 -1.3	3.6	0.8	-6.5	-2.3	-5.9	50 30	30	30	30	30	30
t-Amyl methyl ether	0.2 -0.6	3.7	-1.6	1.2	-0.1	-2.8	50 30	30	30	30	30	30
n-Heptane	0.3 -2.7	3.4	-0.3	3.2	-2.3	-1.6	50 30	30	30	30	30	30
n-Butanol	-0.7 -1.5	1.6	-5.0	0.4	1.9	3.2	50 30	30	30	30	30	30
Trichloroethene	-3.2 1.8	2.0	-0.9	3.7	-1.7	-1.7	50 30	30	30	30	30	30
Methylcyclohexane	-0.7 -0.7	-1.1	-1.4	3.9	1.0	-1.1	50 30	30	30	30	30	30
1,2-Dichloropropane	-2.6 0.2	2.6	0.4	2.1	-0.8	-2.0	50 30	30	30	30	30	30
Methyl methacrylate	-10.1 7.5	1.1	-2.5	-3.9	2.1	5.8	50 30	30	30	30	30	30
1,4-Dioxane	-15.7 -7.8	-2.2	1.3	14.6	3.8	5.9	50 30	30	30	30	30	30
Dibromomethane	-2.4 1.8	0.0	-1.0	3.5	-0.9	-0.9	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 18:47 Calibration End Date: 06/30/2021 20:52 Calibration ID: 28257

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	-0.2 4.0	-4.3	-2.2	2.4	1.2	-0.9	50 30	30	30	30	30	30
2-Nitropropane	8.2 2.2	-8.5	-2.3	-2.8	1.3	1.8	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-4.7 5.0	-2.9	-2.2	2.9	1.0	0.8	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	-10.5 2.9	0.4	0.5	0.2	2.3	4.2	50 30	30	30	30	30	30
Toluene	4.8 -0.2	-2.1	0.5	0.4	-1.3	-2.0	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-7.2 4.3	-0.1	-1.5	2.0	0.3	2.2	50 30	30	30	30	30	30
Ethyl methacrylate	-10.7 5.6	-4.5	-1.7	2.8	4.7	3.8	50 30	30	30	30	30	30
1,1,2-Trichloroethane	-2.5 0.8	-3.9	-0.5	2.7	3.6	-0.2	50 30	30	30	30	30	30
Tetrachloroethene	0.6 2.4	-0.3	-2.7	1.9	-1.1	-0.8	50 30	30	30	30	30	30
1,3-Dichloropropane	-5.0 2.5	-4.0	1.4	4.0	0.7	0.5	50 30	30	30	30	30	30
2-Hexanone	-7.7 4.6	-3.0	0.3	-1.3	2.6	4.5	50 30	30	30	30	30	30
Dibromochloromethane	-3.8 4.4	1.6	-4.0	0.5	1.0	0.4	50 30	30	30	30	30	30
1,2-Dibromoethane (EDB)	2.2 0.7	0.0	-0.9	-1.1	0.2	-1.1	50 30	30	30	30	30	30
1-Chlorohexane	8.8 -1.2	1.0	-3.1	0.1	-2.5	-3.1	50 30	30	30	30	30	30
Chlorobenzene	-0.3 1.2	0.9	-1.2	1.4	-0.8	-1.1	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-1.7 2.2	1.6	-2.6	1.7	-0.7	-0.5	50 30	30	30	30	30	30
Ethylbenzene	-1.1 2.0	0.5	-2.2	1.5	0.2	-0.9	50 30	30	30	30	30	30
m&p-Xylene	-3.6 4.0	-2.6	-1.4	1.8	1.3	0.5	50 30	30	30	30	30	30
o-Xylene	-1.5 3.0	-2.1	-1.9	2.0	0.5	-0.1	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.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 18:47 Calibration End Date: 06/30/2021 20:52 Calibration ID: 28257

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	-4.0 5.9	-2.9	-3.2	1.4	1.2	1.6	50 30	30	30	30	30	30
Bromoform	-6.2 6.5	-2.9	-4.0	1.6	2.5	2.6	50 30	30	30	30	30	30
Isopropylbenzene	-4.5 4.6	-2.7	-1.1	1.9	0.9	0.8	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	0.8 -1.2	4.0	-3.5	-0.9	1.7	-1.0	50 30	30	30	30	30	30
Bromobenzene	-6.0 4.2	-0.7	0.3	0.9	0.6	0.7	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-10.9 7.9	-5.6	2.4	0.3	1.7	4.2	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-10.1 -2.8	8.0	2.4	2.6	1.3	-1.5	50 30	30	30	30	30	30
N-Propylbenzene	-4.2 3.8	-1.7	-2.3	2.7	1.5	0.2	50 30	30	30	30	30	30
2-Chlorotoluene	-5.5 3.3	2.5	-0.9	-0.1	1.1	-0.3	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-4.7 4.6	-0.3	-3.0	2.3	0.5	0.6	50 30	30	30	30	30	30
4-Chlorotoluene	-6.9 3.1	0.0	-2.1	2.7	2.4	0.8	50 30	30	30	30	30	30
tert-Butylbenzene	3.3 2.7	2.2	-3.2	-0.5	-3.1	-1.4	50 30	30	30	30	30	30
Pentachloroethane	-5.0 5.2	-0.2	-4.1	-0.5	2.0	2.5	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-5.0 4.3	-0.8	-1.4	0.2	1.9	0.8	50 30	30	30	30	30	30
sec-Butylbenzene	-5.6 6.1	-3.8	-2.4	2.6	1.3	1.7	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-4.5 4.1	1.6	-0.6	-0.1	-0.1	-0.4	50 30	30	30	30	30	30
p-Isopropyltoluene	-5.6 6.2	-3.2	-2.6	2.7	1.1	1.6	50 30	30	30	30	30	30
1,4-Dichlorobenzene	-3.0 3.8	-2.7	-1.5	1.5	1.3	0.6	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	0.0 2.2	1.1	-1.5	-0.5	0.5	-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.: 410-45147-1 Analy Batch No.: 143886

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2021 18:47 Calibration End Date: 06/30/2021 20:52 Calibration ID: 28257

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	-9.8 6.6	-0.1	-4.4	0.1	4.3	3.4	50 30	30	30	30	30	30
n-Butylbenzene	-6.3 7.3	-5.3	-2.2	1.9	2.1	2.5	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-4.5 3.7	0.6	-3.5	2.1	1.0	0.6	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	1.9 -0.7	-5.1	-0.5	5.4	1.4	-2.4	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-6.1 6.0	-0.1	-2.2	1.9	0.6	-0.2	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-6.2 7.2	-4.0	-3.2	3.2	2.0	1.0	50 30	30	30	30	30	30
Hexachlorobutadiene	23.5 0.6	-1.4	-3.7	-5.1	-7.6	-6.5	50 30	30	30	30	30	30
Naphthalene	-9.8 3.1	-0.1	1.2	1.4	3.6	0.7	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-1.6 4.5	-2.2	-2.8	3.1	-0.3	-0.8	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-0.2 1.1	0.2	-0.8	-1.2	0.5	0.4	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	0.1 0.0	-2.2	1.4	-1.8	1.1	1.5	50 30	30	30	30	30	30
Toluene-d8 (Surr)	0.2 -0.8	-0.2	-0.3	0.1	0.2	0.9	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-0.4 0.1	-0.6	0.6	0.4	0.1	-0.1	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I11.D
Lims ID: IC std7 25
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 30-Jun-2021 18:47:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033290-014
Misc. Info.: IC STD7 25
Operator ID: jml01693 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Jul-2021 16:18:08 Calib Date: 30-Jun-2021 20:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: campbellme Date: 01-Jul-2021 00:34:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	2.001	2.007	-0.006	99	1601690	25.0	24.7	
6 Chloromethane	50	2.196	2.196	0.000	99	1943433	25.0	24.8	
8 Butadiene	39	2.312	2.312	0.000	91	1750592	25.0	24.2	
7 Vinyl chloride	62	2.318	2.324	-0.006	98	2006367	25.0	25.3	
9 Bromomethane	94	2.635	2.635	0.000	90	1444659	25.0	24.7	
10 Chloroethane	64	2.727	2.721	0.006	100	1262397	25.0	24.7	
11 Dichlorofluoromethane	67	2.971	2.971	0.000	97	2919773	25.0	24.7	
13 Trichlorofluoromethane	101	3.038	3.044	-0.006	98	2596449	25.0	24.9	
15 Ethyl ether	59	3.275	3.282	-0.007	92	1128889	25.0	25.1	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.373	3.373	0.000	94	2062910	25.0	24.8	
17 Acrolein	56	3.446	3.458	-0.012	99	8625987	1250.0	1235.6	
18 1,1-Dichloroethene	96	3.598	3.605	-0.007	98	1482963	25.0	24.6	
19 Acetone	43	3.617	3.611	0.006	99	1873303	250.0	212.2	M
20 112TCTFE	101	3.641	3.635	0.006	94	1598905	25.0	24.9	
21 Isopropyl alcohol	45	3.769	3.769	0.000	99	762208	500.0	428.4	M
22 Iodomethane	142	3.806	3.806	0.000	98	2669715	25.0	25.2	
23 Ethyl bromide	108	3.824	3.824	0.000	98	1277842	25.0	25.1	
24 Carbon disulfide	76	3.928	3.916	0.012	99	4572744	25.0	25.2	
26 Methyl acetate	43	4.044	4.056	-0.012	97	650971	25.0	24.8	
27 3-Chloro-1-propene	41	4.074	4.080	-0.006	95	2651483	25.0	24.9	
* 28 t-Butyl alcohol-d10 (IS)	65	4.263	4.257	0.006	41	120244	50.0	50.0	
29 Methylene Chloride	84	4.263	4.263	0.000	93	1572369	25.0	24.8	
30 2-Methyl-2-propanol	59	4.385	4.385	0.000	100	1313366	500.0	477.9	
31 Acrylonitrile	53	4.592	4.617	-0.025	99	728138	62.5	63.2	
32 Methyl tert-butyl ether	73	4.678	4.665	0.013	94	3502835	25.0	24.5	
33 trans-1,2-Dichloroethene	96	4.684	4.696	-0.012	99	1608114	25.0	24.7	
34 Hexane	57	5.110	5.117	-0.007	91	2639188	25.0	25.3	
35 1,1-Dichloroethane	63	5.342	5.348	-0.006	96	3037061	25.0	25.4	
37 Isopropyl ether	45	5.397	5.397	0.000	96	5282775	25.0	25.2	
38 2-Chloro-1,3-butadiene	53	5.452	5.458	-0.006	89	2599089	25.0	25.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.940	5.934	0.006	98	4513870	25.0	24.8	
41 2-Butanone (MEK)	43	6.128	6.135	-0.007	100	3751385	250.0	254.0	
S 40 1,2-Dichloroethene, Total	100				0			49.2	
42 cis-1,2-Dichloroethene	96	6.177	6.183	-0.006	83	1763529	25.0	24.5	
43 2,2-Dichloropropane	77	6.196	6.190	0.006	88	2461884	25.0	25.2	
45 Propionitrile	54	6.214	6.214	0.000	99	2039729	500.0	487.0	
47 Methacrylonitrile	67	6.439	6.440	-0.001	92	3934230	250.0	255.2	
48 Chlorobromomethane	128	6.506	6.507	-0.001	96	732281	25.0	25.4	
49 Tetrahydrofuran	71	6.519	6.531	-0.012	84	495275	125.0	120.9	
50 Chloroform	83	6.659	6.659	0.000	93	2859455	25.0	25.4	
$ 51 Dibromofluoromethane (Surr)	113	6.872	6.872	0.000	93	558502	10.0	10.1	
52 1,1,1-Trichloroethane	97	6.891	6.891	0.000	98	2600800	25.0	25.2	
53 Cyclohexane	56	6.994	6.994	0.000	90	3263229	25.0	25.1	
55 1,1-Dichloropropene	75	7.104	7.104	0.000	98	2420777	25.0	25.4	
56 Carbon tetrachloride	117	7.110	7.110	0.000	95	2265363	25.0	25.4	
57 Isobutyl alcohol	41	7.232	7.232	0.000	95	1188172	1250.0	1139.5	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.336	7.330	0.006	89	111500	10.0	10.0	
59 Benzene	78	7.366	7.366	0.000	96	6854464	25.0	25.1	
60 1,2-Dichloroethane	62	7.439	7.439	0.000	97	1647253	25.0	24.7	
62 Tert-amyl methyl ether	73	7.555	7.555	0.000	99	3978983	25.0	24.9	
* 65 Fluorobenzene (IS)	96	7.768	7.768	0.000	99	2283002	10.0	10.0	
64 n-Heptane	43	7.781	7.781	0.000	92	2770496	25.0	24.3	
66 n-Butanol	56	8.116	8.122	-0.006	87	1968337	2187.5	2155.4	
67 Trichloroethene	95	8.250	8.250	0.000	99	1790967	25.0	25.4	
68 Methylcyclohexane	83	8.567	8.567	0.000	95	3304385	25.0	24.8	
70 1,2-Dichloropropane	63	8.585	8.585	0.000	96	1771566	25.0	25.1	
69 2-ethoxy-2-methyl butane	87	8.591	8.592	-0.001	92	2271045	25.0	25.4	
71 Methyl methacrylate	69	8.665	8.665	0.000	90	763044	25.0	26.9	
72 1,4-Dioxane	88	8.671	8.671	0.000	87	214174	1250.0	1152.6	M
73 Dibromomethane	93	8.695	8.689	0.006	97	771631	25.0	25.4	
75 Dichlorobromomethane	83	8.933	8.927	0.006	99	2056360	25.0	26.0	
76 2-Nitropropane	41	9.195	9.195	0.000	96	958802	125.0	127.8	
79 1-Bromo-2-chloroethane	63	9.323	9.323	0.000	98	1744495	25.0	25.4	
80 cis-1,3-Dichloropropene	75	9.475	9.476	-0.001	97	2687299	25.0	26.3	
81 4-Methyl-2-pentanone (MIBK)	43	9.640	9.640	0.000	96	9506976	250.0	257.2	
$ 82 Toluene-d8 (Surr)	98	9.780	9.780	0.000	93	2278266	10.0	9.92	
83 Toluene	92	9.859	9.860	-0.001	98	4372182	25.0	24.9	
S 84 1,3-Dichloropropene, Total	100				0			52.3	
85 trans-1,3-Dichloropropene	75	10.109	10.110	-0.001	91	2140328	25.0	26.1	
86 Ethyl methacrylate	69	10.170	10.170	0.000	89	1656748	25.0	26.4	
87 1,1,2-Trichloroethane	97	10.317	10.317	0.000	89	1126535	25.0	25.2	
88 Tetrachloroethene	166	10.408	10.408	0.000	97	1946076	25.0	25.6	
89 1,3-Dichloropropane	76	10.481	10.475	0.006	88	1990239	25.0	25.6	
91 2-Hexanone	43	10.524	10.524	0.000	97	6611635	250.0	261.5	
93 Chlorodibromomethane	129	10.695	10.695	0.000	90	1448318	25.0	26.1	
94 Ethylene Dibromide	107	10.804	10.805	0.000	99	1084914	25.0	25.2	
* 97 Chlorobenzene-d5 (IS)	117	11.237	11.237	0.000	86	1709928	10.0	10.0	
96 1-Chlorohexane	91	11.243	11.243	0.000	98	2629535	25.0	24.7	
S 95 Xylenes, Total	106				0			77.7	
98 Chlorobenzene	112	11.262	11.262	0.000	95	4699589	25.0	25.3	
100 Ethylbenzene	91	11.347	11.347	0.000	98	8437158	25.0	25.5	
99 1,1,1,2-Tetrachloroethane	131	11.347	11.347	0.000	97	1621389	25.0	25.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 m-Xylene & p-Xylene	106	11.463	11.463	0.000	98	6573619	50.0	52.0	
102 o-Xylene	106	11.792	11.792	0.000	96	3225628	25.0	25.8	
103 Styrene	104	11.804	11.804	0.000	95	5306022	25.0	26.5	
104 Bromoform	173	11.963	11.963	0.000	97	817361	25.0	26.6	
105 Isopropylbenzene	105	12.091	12.091	0.000	95	8449089	25.0	26.2	
$ 108 4-Bromofluorobenzene (Surr)	95	12.237	12.237	0.000	90	838893	10.0	10.0	
109 1,1,2,2-Tetrachloroethane	83	12.335	12.335	0.000	92	1360580	25.0	24.7	
111 Bromobenzene	156	12.353	12.353	0.000	93	1822102	25.0	26.1	
110 trans-1,4-Dichloro-2-butene	53	12.359	12.359	0.000	90	3500696	250.0	269.7	
112 1,2,3-Trichloropropane	110	12.383	12.383	0.000	82	341976	25.0	24.3	
113 N-Propylbenzene	91	12.420	12.420	0.000	99	10000218	25.0	26.0	
114 2-Chlorotoluene	126	12.499	12.493	0.006	97	1944611	25.0	25.8	
115 1,3,5-Trimethylbenzene	105	12.554	12.554	0.000	94	7050045	25.0	26.1	
116 4-Chlorotoluene	126	12.591	12.585	0.006	97	1959054	25.0	25.8	
118 tert-Butylbenzene	134	12.798	12.798	0.000	93	1506920	25.0	25.7	
119 Pentachloroethane	167	12.828	12.829	0.000	91	1145428	25.0	26.3	
120 1,2,4-Trimethylbenzene	105	12.835	12.835	-0.001	97	7169877	25.0	26.1	
121 sec-Butylbenzene	105	12.963	12.957	0.006	94	9037470	25.0	26.5	
122 1,3-Dichlorobenzene	146	13.060	13.060	0.000	98	3748531	25.0	26.0	
123 4-Isopropyltoluene	119	13.066	13.066	0.000	97	7646950	25.0	26.5	
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	94	909469	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.133	13.133	0.000	94	3687456	25.0	26.0	
126 1,2,3-Trimethylbenzene	120	13.145	13.139	0.006	98	3125399	25.0	25.5	
127 Benzyl chloride	126	13.206	13.206	0.000	98	602066	25.0	26.6	
130 n-Butylbenzene	92	13.359	13.359	0.000	97	3893005	25.0	26.8	
131 1,2-Dichlorobenzene	146	13.395	13.395	0.000	98	3384925	25.0	25.9	
129 p-Diethylbenzene	119	13.408	13.408	0.000	86	3808227	25.0	26.1	
134 1,2-Dibromo-3-Chloropropane	155	13.938	13.932	0.006	88	196674	25.0	24.8	
135 1,3,5-Trichlorobenzene	180	14.060	14.060	0.000	98	2758645	25.0	26.5	
136 1,2,4-Trichlorobenzene	180	14.481	14.481	0.000	94	2361522	25.0	26.8	
137 Hexachlorobutadiene	225	14.566	14.566	0.000	98	1015791	25.0	25.2	
138 Naphthalene	128	14.663	14.664	-0.001	97	4383338	25.0	25.8	
139 1,2,3-Trichlorobenzene	180	14.810	14.810	0.000	96	1998307	25.0	26.1	
140 2-Methylnaphthalene	142	15.444	15.444	0.000	93	2565290	25.0	26.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#2_826_00007	Amount Added: 25.00	Units: uL	
MSV_LL_#1_826_00006	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00010	Amount Added: 25.00	Units: uL	
MSV_LLcentISS_00001	Amount Added: 5.00	Units: uL	Run Reagent

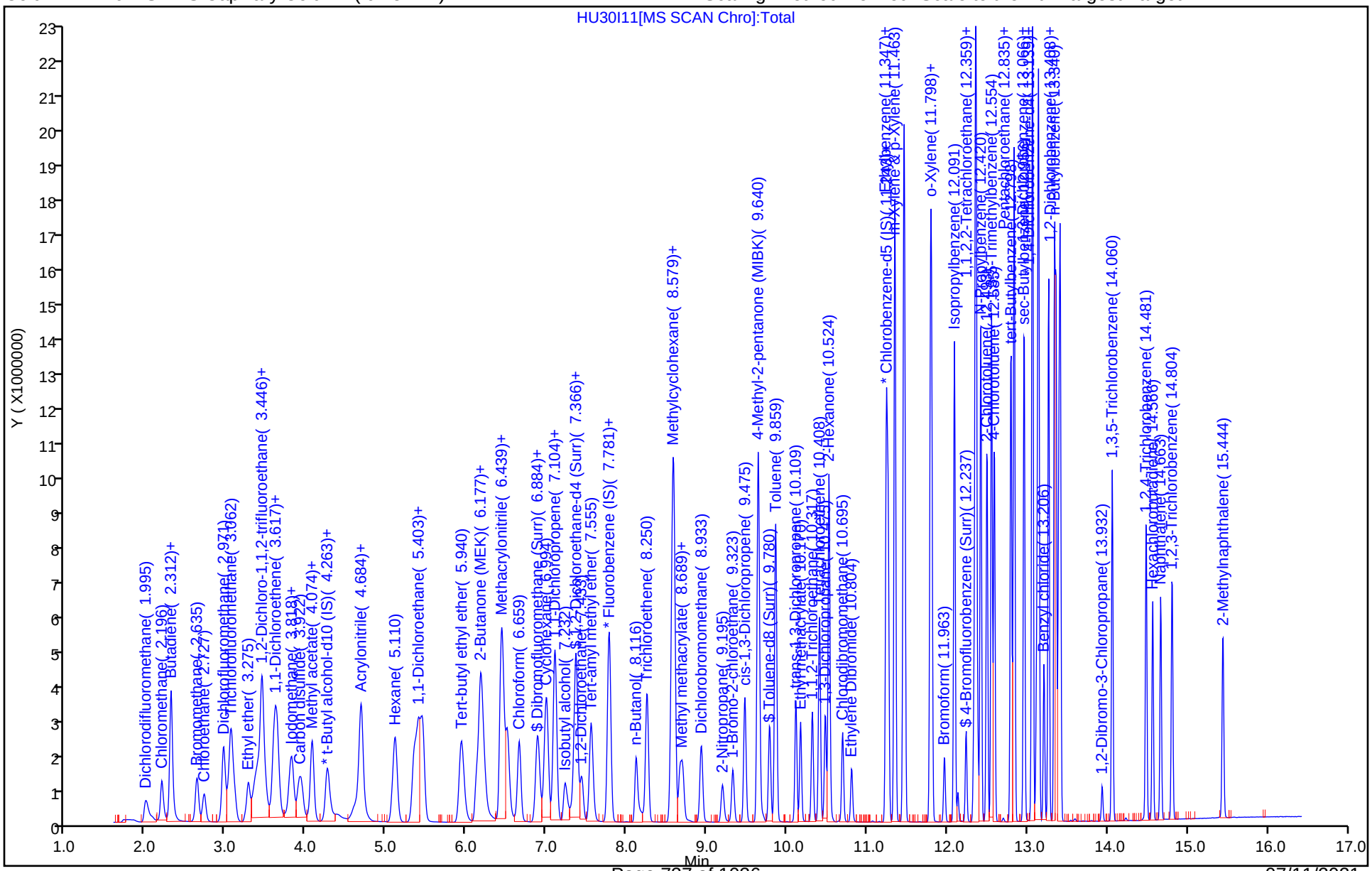
Report Date: 01-Jul-2021 16:18:09 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I11.D

Injection Date:	30-Jun-2021 18:47:30	Instrument ID:	19094	Operator ID:	jml01693
Lims ID:	IC std7 25			Worklist Smp#:	14
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

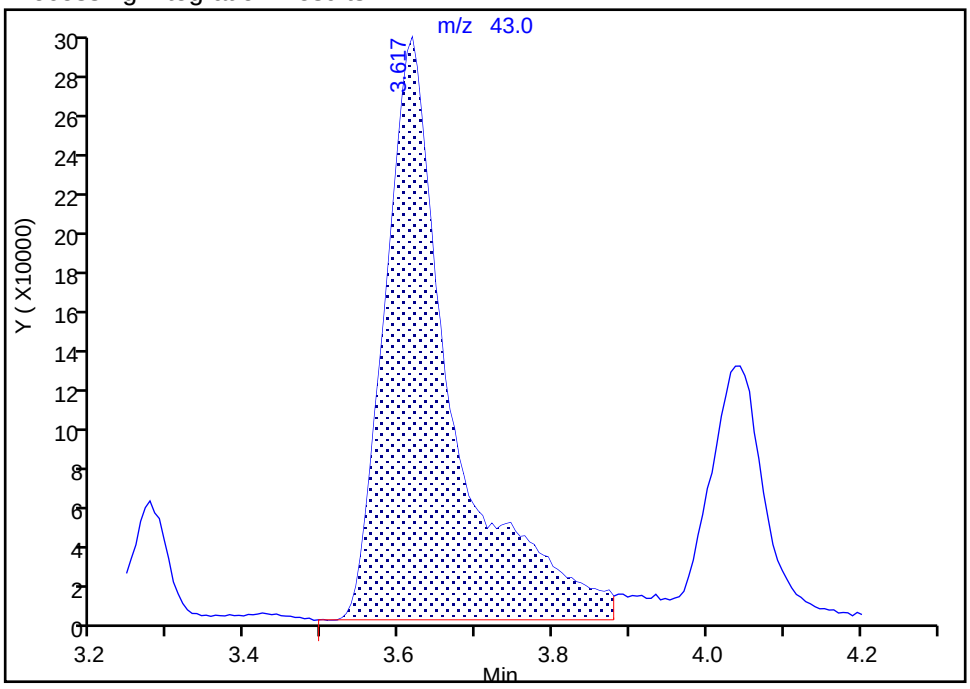
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I11.D				
Injection Date:	30-Jun-2021 18:47:30	Instrument ID:	19094		
Lims ID:	IC std7 25				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

19 Acetone, CAS: 67-64-1

Signal: 1

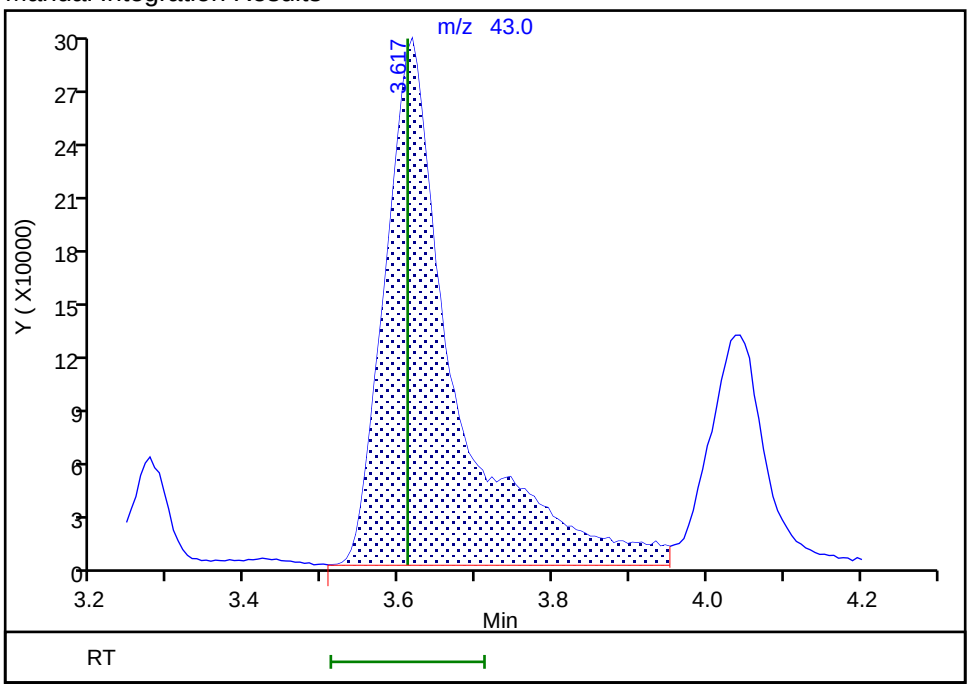
Processing Integration Results

RT: 3.62
Area: 1807729
Amount: 205.6325
Amount Units: ug/l



Manual Integration Results

RT: 3.62
Area: 1873303
Amount: 212.1872
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:52:55

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

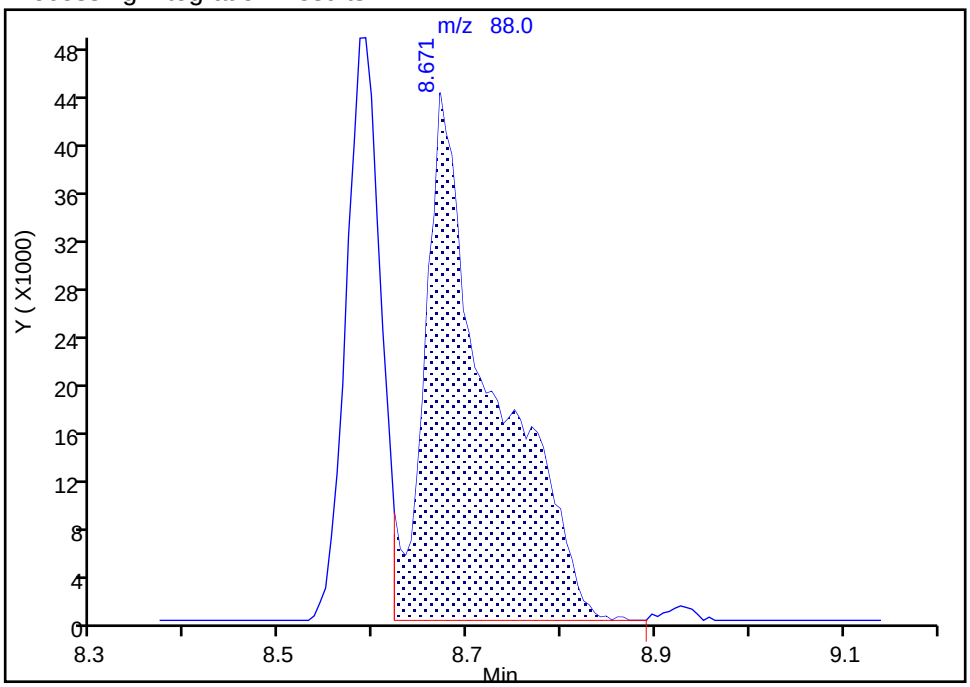
Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I11.D
Injection Date: 30-Jun-2021 18:47:30 Instrument ID: 19094
Lims ID: IC std7 25
Client ID:
Operator ID: jml01693 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

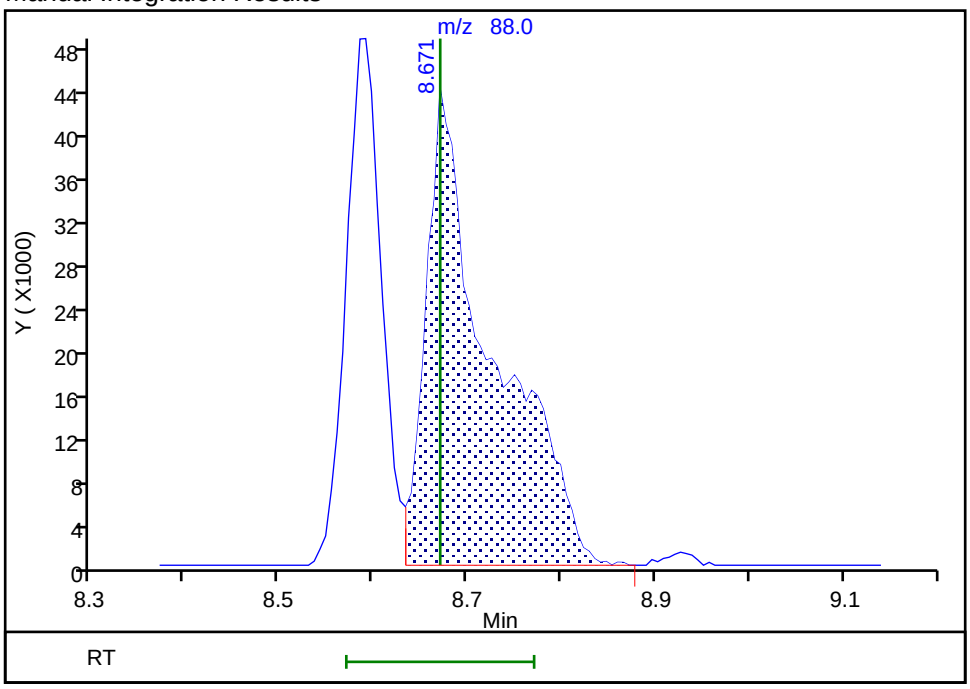
Processing Integration Results

RT: 8.67
Area: 219606
Amount: 1220.9704
Amount Units: ug/l



Manual Integration Results

RT: 8.67
Area: 214174
Amount: 1152.6130
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:42:08
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I12.D
Lims ID: ICIS 10
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 30-Jun-2021 19:08:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033290-015
Misc. Info.: ICIS 10
Operator ID: jml01693 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Jul-2021 16:18:15 Calib Date: 30-Jun-2021 20:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: campbellme Date: 01-Jul-2021 00:40:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.995	1.995	0.000	99	681423	10.0	10.1	
6 Chloromethane	50	2.190	2.190	0.000	99	798647	10.0	9.82	
8 Butadiene	39	2.306	2.306	0.000	92	752797	10.0	10.0	
7 Vinyl chloride	62	2.312	2.312	0.000	97	833802	10.0	10.1	
9 Bromomethane	94	2.635	2.635	0.000	90	592976	10.0	9.75	
10 Chloroethane	64	2.721	2.721	0.000	100	511990	10.0	9.64	
11 Dichlorofluoromethane	67	2.971	2.971	0.000	97	1203800	10.0	9.83	
13 Trichlorofluoromethane	101	3.038	3.038	0.000	98	1085631	10.0	10.0	
15 Ethyl ether	59	3.276	3.276	0.000	91	470003	10.0	10.1	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.367	3.367	0.000	93	855150	10.0	9.91	
17 Acrolein	56	3.446	3.446	0.000	98	3764378	500.0	523.4	
18 1,1-Dichloroethene	96	3.593	3.593	0.000	98	603570	10.0	9.63	
19 Acetone	43	3.605	3.605	0.000	100	814769	100.0	89.6	
20 112TCTFE	101	3.629	3.629	0.000	93	655709	10.0	9.84	
21 Isopropyl alcohol	45	3.751	3.751	0.000	100	345094	200.0	186.9	M
22 Iodomethane	142	3.794	3.794	0.000	98	1079294	10.0	9.81	
23 Ethyl bromide	108	3.818	3.818	0.000	98	522463	10.0	9.89	
24 Carbon disulfide	76	3.910	3.910	0.000	99	1825531	10.0	9.69	
26 Methyl acetate	43	4.031	4.031	0.000	97	257817	10.0	9.53	
27 3-Chloro-1-propene	41	4.068	4.068	0.000	95	1062825	10.0	9.61	
* 28 t-Butyl alcohol-d10 (IS)	65	4.257	4.257	0.000	87	123880	50.0	50.0	
29 Methylene Chloride	84	4.257	4.257	0.000	94	636060	10.0	9.68	
30 2-Methyl-2-propanol	59	4.367	4.367	0.000	100	529129	200.0	186.9	
31 Acrylonitrile	53	4.592	4.592	0.000	98	305323	25.0	25.7	
32 Methyl tert-butyl ether	73	4.659	4.659	0.000	95	1437005	10.0	9.67	
33 trans-1,2-Dichloroethene	96	4.684	4.684	0.000	99	653905	10.0	9.66	
34 Hexane	57	5.104	5.104	0.000	91	1085556	10.0	10.0	
35 1,1-Dichloroethane	63	5.342	5.342	0.000	96	1221895	10.0	9.84	
37 Isopropyl ether	45	5.397	5.397	0.000	96	2149011	10.0	9.90	
38 2-Chloro-1,3-butadiene	53	5.452	5.452	0.000	89	1049389	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
39 Tert-butyl ethyl ether	59	5.934	5.934	0.000	98	1844217	10.0	9.77	
41 2-Butanone (MEK)	43	6.129	6.129	0.000	100	1576072	100.0	103.6	
42 cis-1,2-Dichloroethene	96	6.171	6.171	0.000	82	708268	10.0	9.48	
43 2,2-Dichloropropane	77	6.196	6.196	0.000	88	1005080	10.0	9.91	
45 Propionitrile	54	6.214	6.214	0.000	99	883346	200.0	204.7	
47 Methacrylonitrile	67	6.433	6.433	0.000	91	1638847	100.0	103.2	
48 Chlorobromomethane	128	6.507	6.507	0.000	96	290657	10.0	9.73	
49 Tetrahydrofuran	71	6.519	6.519	0.000	76	215405	50.0	51.1	
50 Chloroform	83	6.653	6.653	0.000	93	1144290	10.0	9.80	
$ 51 Dibromofluoromethane (Surr)	113	6.866	6.866	0.000	93	575224	10.0	10.0	
52 1,1,1-Trichloroethane	97	6.891	6.891	0.000	98	1043111	10.0	9.72	
53 Cyclohexane	56	6.988	6.988	0.000	90	1336164	10.0	9.90	
55 1,1-Dichloropropene	75	7.098	7.098	0.000	98	971750	10.0	9.84	
56 Carbon tetrachloride	117	7.104	7.104	0.000	96	922051	10.0	9.95	
57 Isobutyl alcohol	41	7.226	7.226	0.000	95	515052	500.0	479.5	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.336	7.336	0.000	97	117405	10.0	10.1	
59 Benzene	78	7.366	7.366	0.000	96	2760550	10.0	9.73	
60 1,2-Dichloroethane	62	7.433	7.433	0.000	97	652043	10.0	9.41	M
62 Tert-amyl methyl ether	73	7.549	7.549	0.000	99	1614611	10.0	9.72	
* 65 Fluorobenzene (IS)	96	7.769	7.769	0.000	99	2368765	10.0	10.0	
64 n-Heptane	43	7.781	7.781	0.000	92	1163443	10.0	9.84	
66 n-Butanol	56	8.116	8.116	0.000	86	849724	875.0	903.1	
67 Trichloroethene	95	8.250	8.250	0.000	99	717979	10.0	9.83	
68 Methylcyclohexane	83	8.561	8.561	0.000	94	1365125	10.0	9.89	
70 1,2-Dichloropropane	63	8.585	8.585	0.000	86	719136	10.0	9.80	
69 2-ethoxy-2-methyl butane	87	8.585	8.585	0.000	92	920711	10.0	9.94	
71 Methyl methacrylate	69	8.659	8.659	0.000	92	309542	10.0	10.6	
72 1,4-Dioxane	88	8.671	8.671	0.000	36	101395	500.0	529.7	M
73 Dibromomethane	93	8.695	8.695	0.000	98	312009	10.0	9.91	
75 Dichlorobromomethane	83	8.927	8.927	0.000	100	812931	10.0	9.91	
76 2-Nitropropane	41	9.195	9.195	0.000	96	393627	50.0	50.9	
79 1-Bromo-2-chloroethane	63	9.323	9.323	0.000	98	718689	10.0	10.1	
80 cis-1,3-Dichloropropene	75	9.469	9.469	0.000	97	1070830	10.0	10.1	
81 4-Methyl-2-pentanone (MIBK)	43	9.640	9.640	0.000	96	3969771	100.0	104.2	
$ 82 Toluene-d8 (Surr)	98	9.780	9.780	0.000	93	2361675	10.0	10.1	
83 Toluene	92	9.860	9.860	0.000	98	1749612	10.0	9.80	
85 trans-1,3-Dichloropropene	75	10.110	10.110	0.000	91	854205	10.0	10.2	
86 Ethyl methacrylate	69	10.171	10.171	0.000	89	663882	10.0	10.4	
87 1,1,2-Trichloroethane	97	10.317	10.317	0.000	89	454387	10.0	9.98	
88 Tetrachloroethene	166	10.408	10.408	0.000	97	768025	10.0	9.92	
89 1,3-Dichloropropane	76	10.481	10.481	0.000	88	794846	10.0	10.0	
91 2-Hexanone	43	10.524	10.524	0.000	97	2722733	100.0	104.5	
93 Chlorodibromomethane	129	10.695	10.695	0.000	90	567821	10.0	10.0	
94 Ethylene Dibromide	107	10.805	10.805	0.000	98	434104	10.0	9.89	
* 97 Chlorobenzene-d5 (IS)	117	11.237	11.237	0.000	85	1741980	10.0	10.0	
96 1-Chlorohexane	91	11.243	11.243	0.000	97	1051311	10.0	9.69	
98 Chlorobenzene	112	11.262	11.262	0.000	95	1871985	10.0	9.89	
100 Ethylbenzene	91	11.347	11.347	0.000	98	3340961	10.0	9.91	
99 1,1,1,2-Tetrachloroethane	131	11.347	11.347	0.000	98	643329	10.0	9.95	
101 m-Xylene & p-Xylene	106	11.463	11.463	0.000	98	2588741	20.0	20.1	
102 o-Xylene	106	11.792	11.792	0.000	96	1274345	10.0	9.99	
103 Styrene	104	11.804	11.804	0.000	95	2075266	10.0	10.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 Bromoform	173	11.963	11.963	0.000	96	320604	10.0	10.3	
105 Isopropylbenzene	105	12.091	12.091	0.000	95	3318903	10.0	10.1	
$ 108 4-Bromofluorobenzene (Surr)	95	12.237	12.237	0.000	89	853639	10.0	10.0	
109 1,1,2,2-Tetrachloroethane	83	12.335	12.335	0.000	91	555046	10.0	9.90	
111 Bromobenzene	156	12.353	12.353	0.000	94	716404	10.0	10.1	
110 trans-1,4-Dichloro-2-butene	53	12.359	12.359	0.000	90	1393924	100.0	104.2	
112 1,2,3-Trichloropropane	110	12.384	12.384	0.000	83	141094	10.0	9.85	
113 N-Propylbenzene	91	12.420	12.420	0.000	99	3928173	10.0	10.0	
114 2-Chlorotoluene	126	12.493	12.493	0.000	97	764082	10.0	9.97	
115 1,3,5-Trimethylbenzene	105	12.554	12.554	0.000	94	2760970	10.0	10.1	
116 4-Chlorotoluene	126	12.591	12.591	0.000	97	779996	10.0	10.1	
118 tert-Butylbenzene	134	12.798	12.798	0.000	93	588697	10.0	9.86	
119 Pentachloroethane	167	12.829	12.829	0.000	91	454145	10.0	10.3	
120 1,2,4-Trimethylbenzene	105	12.835	12.835	0.000	97	2822044	10.0	10.1	
121 sec-Butylbenzene	105	12.957	12.957	0.000	94	3524005	10.0	10.2	
122 1,3-Dichlorobenzene	146	13.060	13.060	0.000	98	1460720	10.0	9.96	
123 4-Isopropyltoluene	119	13.066	13.066	0.000	97	2977390	10.0	10.2	
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	94	925399	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.133	13.133	0.000	93	1453895	10.0	10.1	
126 1,2,3-Trimethylbenzene	120	13.139	13.139	0.000	98	1224709	10.0	9.84	
127 Benzyl chloride	126	13.207	13.207	0.000	98	237586	10.0	10.3	
130 n-Butylbenzene	92	13.359	13.359	0.000	98	1513367	10.0	10.3	
131 1,2-Dichlorobenzene	146	13.396	13.396	0.000	98	1336363	10.0	10.1	
129 p-Diethylbenzene	119	13.408	13.408	0.000	87	1484318	10.0	10.0	
134 1,2-Dibromo-3-Chloropropane	155	13.932	13.932	0.000	87	78686	10.0	9.76	
135 1,3,5-Trichlorobenzene	180	14.060	14.060	0.000	97	1056692	10.0	9.98	
136 1,2,4-Trichlorobenzene	180	14.481	14.481	0.000	94	905237	10.0	10.1	
137 Hexachlorobutadiene	225	14.566	14.566	0.000	97	384107	10.0	9.35	
138 Naphthalene	128	14.664	14.664	0.000	97	1742873	10.0	10.1	
139 1,2,3-Trichlorobenzene	180	14.810	14.810	0.000	96	772332	10.0	9.92	
140 2-Methylnaphthalene	142	15.444	15.444	0.000	92	1010033	10.0	10.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00006	Amount Added: 10.00	Units: uL	
MSV_LL_#2_826_00007	Amount Added: 10.00	Units: uL	
MSV_LL_GAS826_00010	Amount Added: 10.00	Units: uL	
MSV_LLcentISS_00001	Amount Added: 5.00	Units: uL	Run Reagent

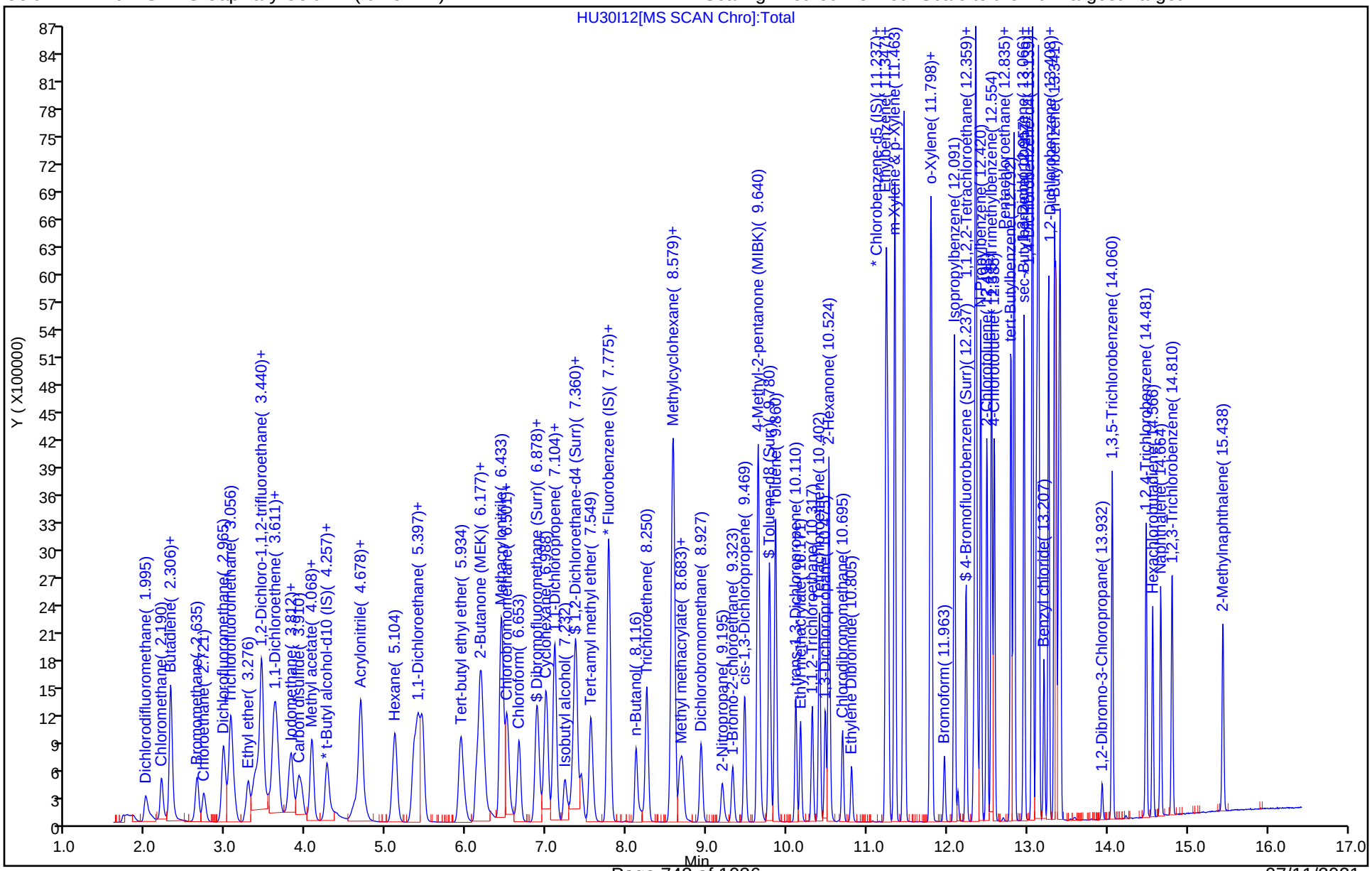
Report Date: 01-Jul-2021 16:18:16 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I12.D

Injection Date:	30-Jun-2021 19:08:30	Instrument ID:	19094	Operator ID:	jml01693
Lims ID:	ICIS 10			Worklist Smp#:	15
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

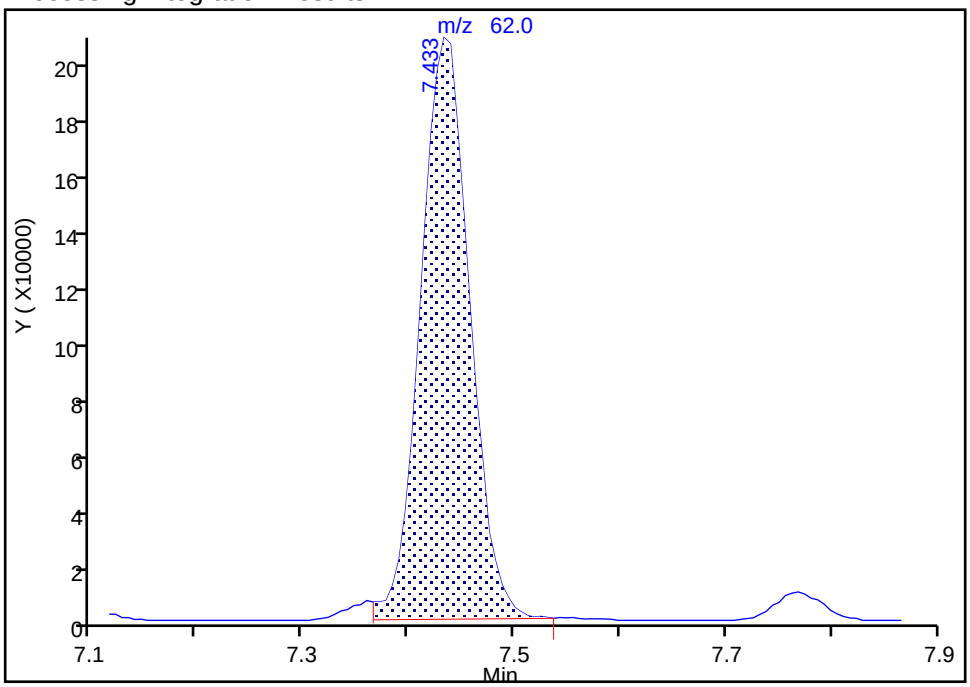
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I12.D				
Injection Date:	30-Jun-2021 19:08:30	Instrument ID:	19094		
Lims ID:	ICIS 10				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

60 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

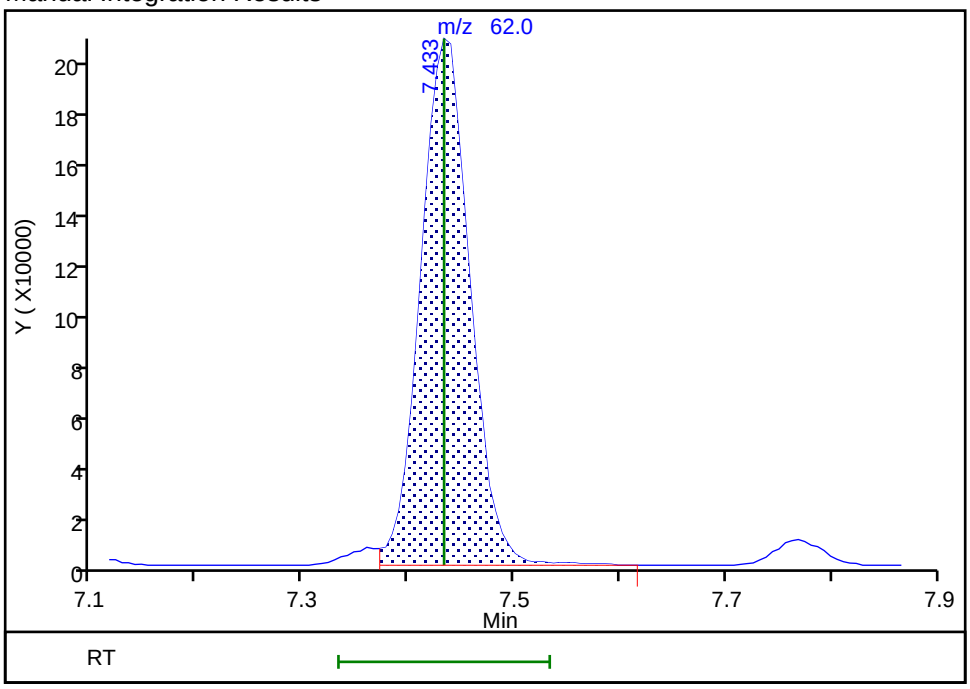
Processing Integration Results

RT: 7.43
Area: 647494
Amount: 9.353570
Amount Units: ug/l



Manual Integration Results

RT: 7.43
Area: 652043
Amount: 9.410450
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:40:19

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

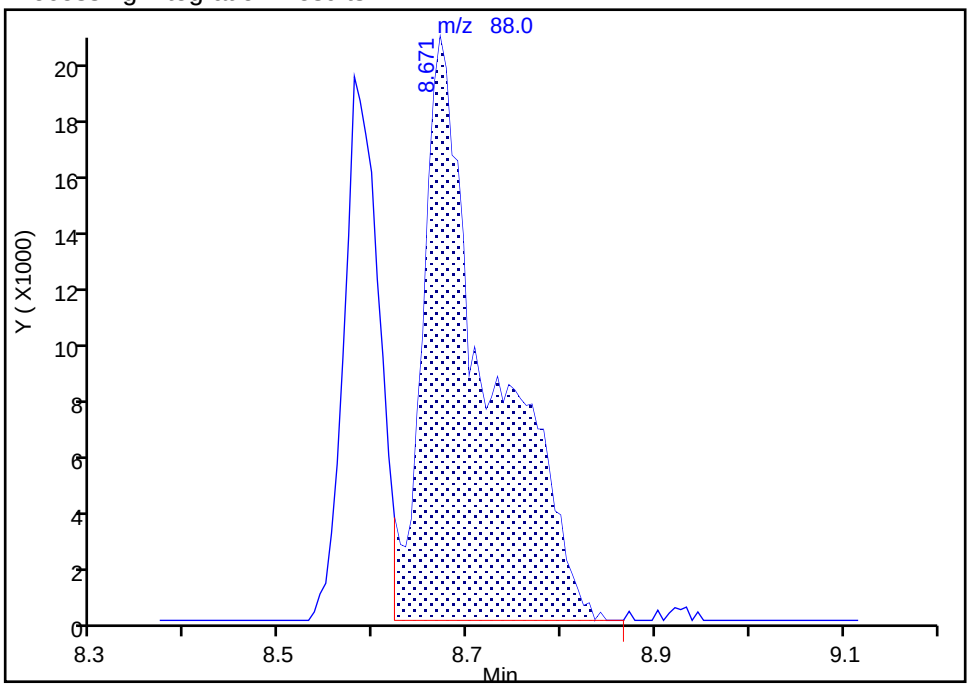
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I12.D				
Injection Date:	30-Jun-2021 19:08:30	Instrument ID:	19094		
Lims ID:	ICIS 10				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

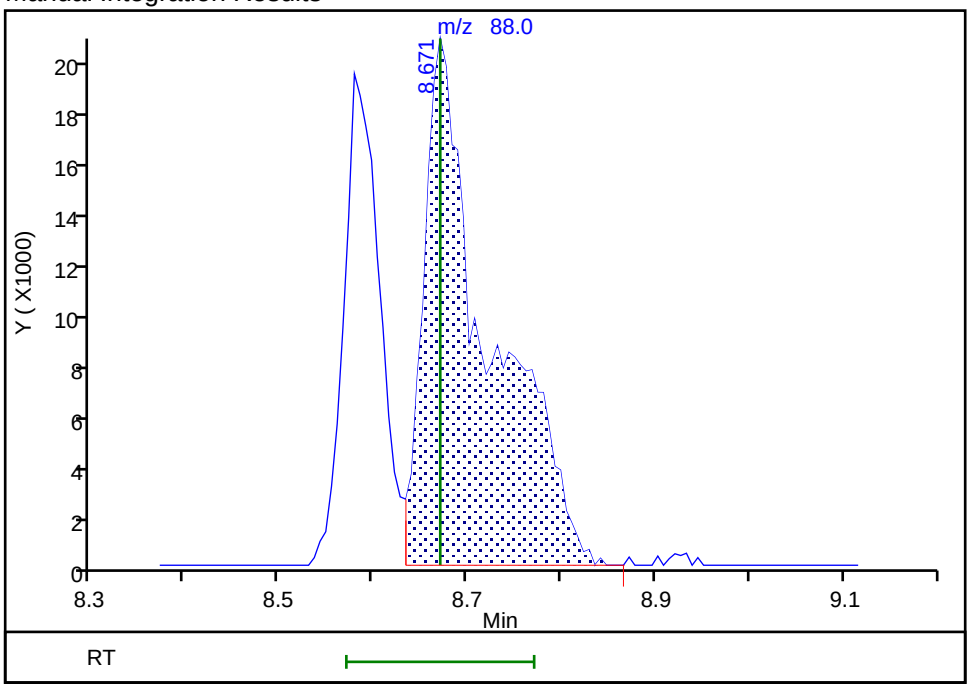
Processing Integration Results

RT: 8.67
Area: 103728
Amount: 557.7758
Amount Units: ug/l



Manual Integration Results

RT: 8.67
Area: 101395
Amount: 529.6580
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:40:32

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I13.D
Lims ID: IC std5 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 30-Jun-2021 19:29:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033290-016
Misc. Info.: IC STD5 5
Operator ID: jml01693 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Jul-2021 16:18:22 Calib Date: 30-Jun-2021 20:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: campbellme Date: 01-Jul-2021 00:43:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	2.001	1.995	0.006	99	338189	5.00	5.02	
6 Chloromethane	50	2.197	2.190	0.006	99	395924	5.00	4.85	
8 Butadiene	39	2.312	2.306	0.006	92	363910	5.00	4.83	
7 Vinyl chloride	62	2.325	2.312	0.013	98	401544	5.00	4.87	
9 Bromomethane	94	2.648	2.635	0.013	91	299014	5.00	4.90	
10 Chloroethane	64	2.733	2.721	0.012	100	258719	5.00	4.85	
11 Dichlorofluoromethane	67	2.977	2.971	0.006	97	597161	5.00	4.86	
13 Trichlorofluoromethane	101	3.044	3.038	0.006	96	534454	5.00	4.93	
15 Ethyl ether	59	3.282	3.276	0.006	91	236665	5.00	5.05	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.379	3.367	0.012	93	424338	5.00	4.90	
17 Acrolein	56	3.452	3.446	0.006	98	1871143	250.0	247.3	
18 1,1-Dichloroethene	96	3.599	3.593	0.006	98	302484	5.00	4.81	
19 Acetone	43	3.623	3.605	0.018	100	440548	50.0	46.0	M
20 112TCTFE	101	3.635	3.629	0.006	94	336832	5.00	5.04	
21 Isopropyl alcohol	45	3.769	3.751	0.018	99	183012	100.0	98.8	M
22 Iodomethane	142	3.800	3.794	0.006	98	549957	5.00	4.98	
23 Ethyl bromide	108	3.830	3.818	0.012	98	260103	5.00	4.91	
24 Carbon disulfide	76	3.928	3.910	0.018	98	926405	5.00	4.90	
26 Methyl acetate	43	4.056	4.031	0.025	97	140053	5.00	4.92	
27 3-Chloro-1-propene	41	4.080	4.068	0.012	95	539661	5.00	4.86	
* 28 t-Butyl alcohol-d10 (IS)	65	4.263	4.257	0.006	40	130308	50.0	50.0	
29 Methylene Chloride	84	4.269	4.257	0.012	92	322305	5.00	4.89	
30 2-Methyl-2-propanol	59	4.379	4.367	0.012	100	296069	100.0	99.4	
31 Acrylonitrile	53	4.598	4.592	0.006	97	165139	12.5	13.2	
32 Methyl tert-butyl ether	73	4.672	4.659	0.013	95	740461	5.00	4.97	
33 trans-1,2-Dichloroethene	96	4.690	4.684	0.006	99	331027	5.00	4.88	
34 Hexane	57	5.111	5.104	0.007	91	549761	5.00	5.06	
35 1,1-Dichloroethane	63	5.348	5.342	0.006	96	624577	5.00	5.01	
37 Isopropyl ether	45	5.397	5.397	0.000	96	1095077	5.00	5.03	
38 2-Chloro-1,3-butadiene	53	5.458	5.452	0.006	89	519671	5.00	4.94	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.940	5.934	0.006	98	943498	5.00	4.98	
41 2-Butanone (MEK)	43	6.135	6.129	0.006	100	805274	50.0	50.3	
S 40 1,2-Dichloroethene, Total	100				0			9.75	
42 cis-1,2-Dichloroethene	96	6.177	6.171	0.006	82	364845	5.00	4.87	
43 2,2-Dichloropropane	77	6.196	6.196	0.000	86	498977	5.00	4.90	
45 Propionitrile	54	6.220	6.214	0.006	99	441133	100.0	97.2	
47 Methacrylonitrile	67	6.440	6.433	0.007	91	844113	50.0	50.5	
48 Chlorobromomethane	128	6.507	6.507	0.000	95	148844	5.00	4.96	
49 Tetrahydrofuran	71	6.525	6.519	0.006	77	110660	25.0	24.9	
50 Chloroform	83	6.665	6.653	0.012	93	580702	5.00	4.96	
$ 51 Dibromofluoromethane (Surr)	113	6.879	6.866	0.013	93	577949	10.0	10.1	
52 1,1,1-Trichloroethane	97	6.891	6.891	0.000	98	529529	5.00	4.92	
53 Cyclohexane	56	7.000	6.988	0.012	90	678761	5.00	5.01	
55 1,1-Dichloropropene	75	7.104	7.098	0.006	97	486976	5.00	4.92	
56 Carbon tetrachloride	117	7.104	7.104	0.000	85	462265	5.00	4.97	
57 Isobutyl alcohol	41	7.232	7.226	0.006	94	263232	250.0	233.0	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.336	7.336	0.000	98	117358	10.0	10.1	
59 Benzene	78	7.366	7.366	0.000	97	1401511	5.00	4.93	
60 1,2-Dichloroethane	62	7.439	7.433	0.006	97	339565	5.00	4.89	
62 Tert-amyl methyl ether	73	7.555	7.549	0.006	99	832079	5.00	4.99	
* 65 Fluorobenzene (IS)	96	7.769	7.769	0.000	99	2376252	10.0	10.0	
64 n-Heptane	43	7.787	7.781	0.006	92	578975	5.00	4.88	
66 n-Butanol	56	8.116	8.116	0.000	86	441342	437.5	446.0	
67 Trichloroethene	95	8.256	8.250	0.006	99	359861	5.00	4.91	
68 Methylcyclohexane	83	8.567	8.561	0.006	93	699533	5.00	5.05	
70 1,2-Dichloropropane	63	8.586	8.585	0.001	73	365053	5.00	4.96	
69 2-ethoxy-2-methyl butane	87	8.586	8.585	0.001	92	467874	5.00	5.03	
71 Methyl methacrylate	69	8.665	8.659	0.006	92	157123	5.00	5.11	
72 1,4-Dioxane	88	8.677	8.671	0.006	41	52279	250.0	259.6	M
73 Dibromomethane	93	8.695	8.695	0.000	98	156400	5.00	4.95	
75 Dichlorobromomethane	83	8.927	8.927	0.000	99	416299	5.00	5.06	
76 2-Nitropropane	41	9.195	9.195	0.000	97	206014	25.0	25.3	
79 1-Bromo-2-chloroethane	63	9.323	9.323	0.000	98	360723	5.00	5.04	
80 cis-1,3-Dichloropropene	75	9.476	9.469	0.007	97	538018	5.00	5.05	
81 4-Methyl-2-pentanone (MIBK)	43	9.640	9.640	0.000	96	2049827	50.0	51.2	
$ 82 Toluene-d8 (Surr)	98	9.780	9.780	0.000	93	2359527	10.0	10.0	
83 Toluene	92	9.860	9.860	0.000	98	886869	5.00	4.94	
S 84 1,3-Dichloropropene, Total	100				0			10.1	
85 trans-1,3-Dichloropropene	75	10.110	10.110	0.000	91	422144	5.00	5.02	
86 Ethyl methacrylate	69	10.171	10.171	0.000	89	336840	5.00	5.23	
87 1,1,2-Trichloroethane	97	10.317	10.317	0.000	89	237393	5.00	5.18	
88 Tetrachloroethene	166	10.408	10.408	0.000	97	385439	5.00	4.95	
89 1,3-Dichloropropane	76	10.481	10.481	0.000	88	400827	5.00	5.03	
91 2-Hexanone	43	10.524	10.524	0.000	97	1405119	50.0	51.3	
93 Chlorodibromomethane	129	10.695	10.695	0.000	90	287250	5.00	5.05	
94 Ethylene Dibromide	107	10.805	10.805	0.000	99	221375	5.00	5.01	
* 97 Chlorobenzene-d5 (IS)	117	11.237	11.237	0.000	86	1752836	10.0	10.0	
96 1-Chlorohexane	91	11.244	11.243	0.001	98	532219	5.00	4.88	
S 95 Xylenes, Total	106				0			15.2	
98 Chlorobenzene	112	11.262	11.262	0.000	95	944659	5.00	4.96	
100 Ethylbenzene	91	11.347	11.347	0.000	98	1699157	5.00	5.01	
99 1,1,1,2-Tetrachloroethane	131	11.341	11.347	-0.006	96	322791	5.00	4.96	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 m-Xylene & p-Xylene	106	11.463	11.463	0.000	99	1313906	10.0	10.1	
102 o-Xylene	106	11.792	11.792	0.000	96	645238	5.00	5.03	
103 Styrene	104	11.804	11.804	0.000	94	1040181	5.00	5.06	
104 Bromoform	173	11.963	11.963	0.000	96	161178	5.00	5.12	
105 Isopropylbenzene	105	12.091	12.091	0.000	96	1670865	5.00	5.05	
$ 108 4-Bromofluorobenzene (Surr)	95	12.237	12.237	0.000	89	860567	10.0	10.0	
109 1,1,2,2-Tetrachloroethane	83	12.335	12.335	0.000	92	286285	5.00	5.09	
111 Bromobenzene	156	12.353	12.353	0.000	94	359170	5.00	5.03	
110 trans-1,4-Dichloro-2-butene	53	12.359	12.359	0.000	90	715589	50.0	50.9	
112 1,2,3-Trichloropropane	110	12.384	12.384	0.000	82	72812	5.00	5.06	
113 N-Propylbenzene	91	12.420	12.420	0.000	99	1998081	5.00	5.08	
114 2-Chlorotoluene	126	12.493	12.493	0.000	97	389198	5.00	5.06	
115 1,3,5-Trimethylbenzene	105	12.554	12.554	0.000	94	1384048	5.00	5.02	
116 4-Chlorotoluene	126	12.591	12.591	0.000	97	397803	5.00	5.12	
118 tert-Butylbenzene	134	12.792	12.798	-0.006	93	290450	5.00	4.84	
119 Pentachloroethane	167	12.829	12.829	0.000	89	226799	5.00	5.10	
120 1,2,4-Trimethylbenzene	105	12.835	12.835	0.000	97	1432252	5.00	5.10	
121 sec-Butylbenzene	105	12.957	12.957	0.000	94	1763011	5.00	5.07	
122 1,3-Dichlorobenzene	146	13.060	13.060	0.000	97	735031	5.00	4.99	
123 4-Isopropyltoluene	119	13.066	13.066	0.000	97	1487952	5.00	5.05	
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	95	929147	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.133	13.133	0.000	95	735276	5.00	5.07	
126 1,2,3-Trimethylbenzene	120	13.139	13.139	0.000	98	627948	5.00	5.02	
127 Benzyl chloride	126	13.207	13.207	0.001	98	120388	5.00	5.22	
130 n-Butylbenzene	92	13.359	13.359	0.000	98	756654	5.00	5.10	
131 1,2-Dichlorobenzene	146	13.396	13.396	0.000	98	674154	5.00	5.05	
129 p-Diethylbenzene	119	13.408	13.408	0.000	87	749096	5.00	5.03	
134 1,2-Dibromo-3-Chloropropane	155	13.938	13.932	0.006	86	41042	5.00	5.07	
135 1,3,5-Trichlorobenzene	180	14.060	14.060	0.000	98	534628	5.00	5.03	
136 1,2,4-Trichlorobenzene	180	14.481	14.481	0.000	94	459178	5.00	5.10	
137 Hexachlorobutadiene	225	14.566	14.566	0.000	97	190585	5.00	4.62	
138 Naphthalene	128	14.664	14.664	0.000	97	899975	5.00	5.18	
139 1,2,3-Trichlorobenzene	180	14.810	14.810	0.000	95	389563	5.00	4.99	
140 2-Methylnaphthalene	142	15.444	15.444	0.000	92	517378	5.00	5.14	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00006	Amount Added:	5.00	Units: uL	
MSV_LL_#2_826_00007	Amount Added:	5.00	Units: uL	
MSV_LL_GAS826_00010	Amount Added:	5.00	Units: uL	
MSV_LLcentISS_00001	Amount Added:	5.00	Units: uL	Run Reagent

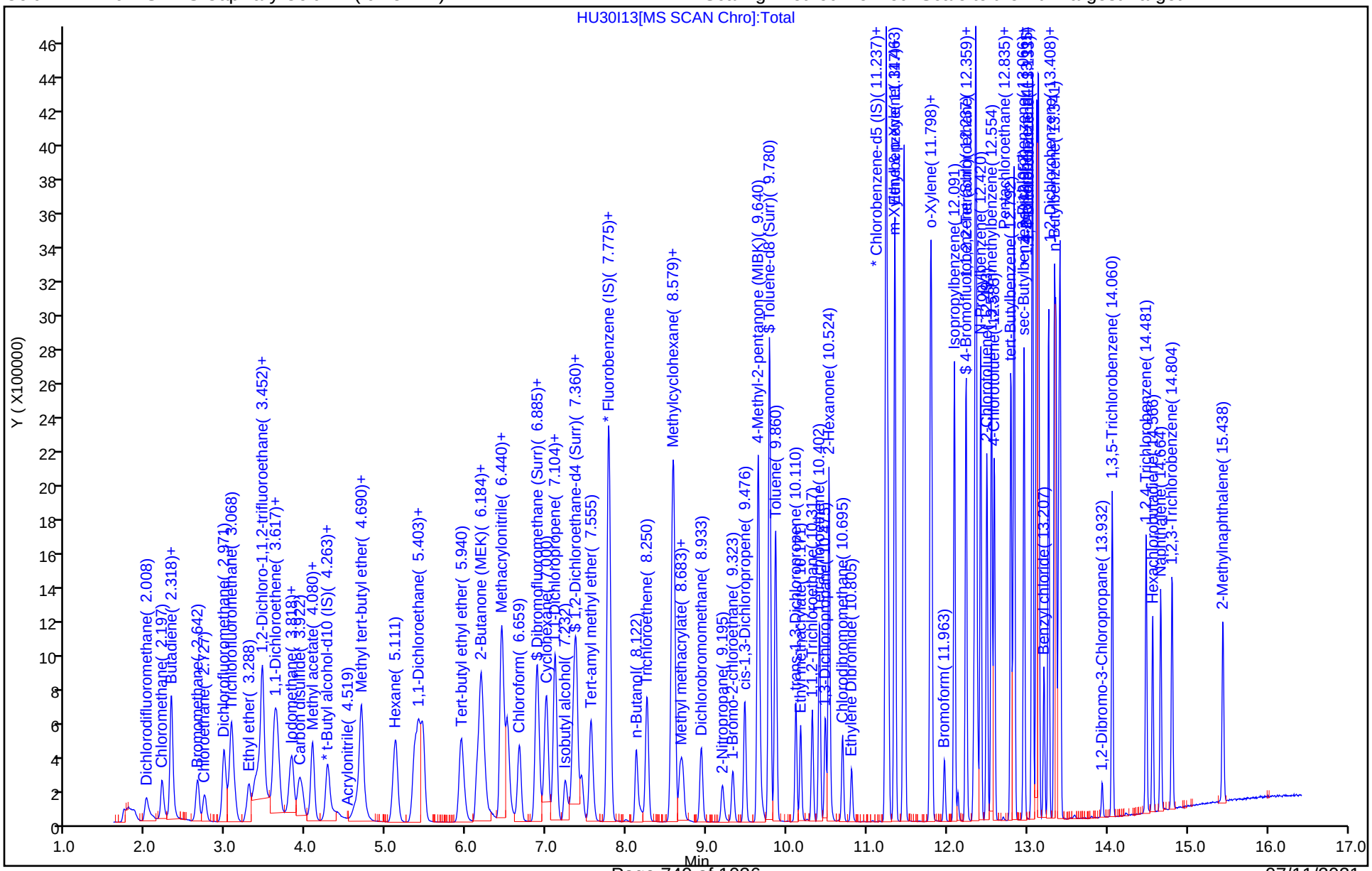
Report Date: 01-Jul-2021 16:18:23 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I13.D

Injection Date:	30-Jun-2021 19:29:30	Instrument ID:	19094	Operator ID:	jml01693
Lims ID:	IC std5 5			Worklist Smp#:	16
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

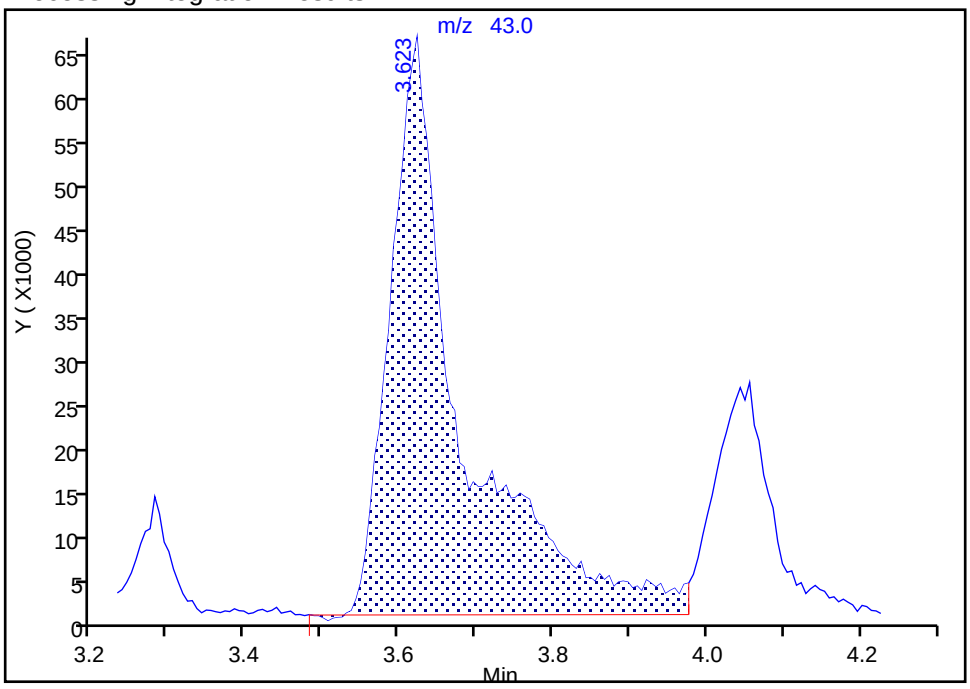
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I13.D				
Injection Date:	30-Jun-2021 19:29:30	Instrument ID:	19094		
Lims ID:	IC std5 5				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

19 Acetone, CAS: 67-64-1

Signal: 1

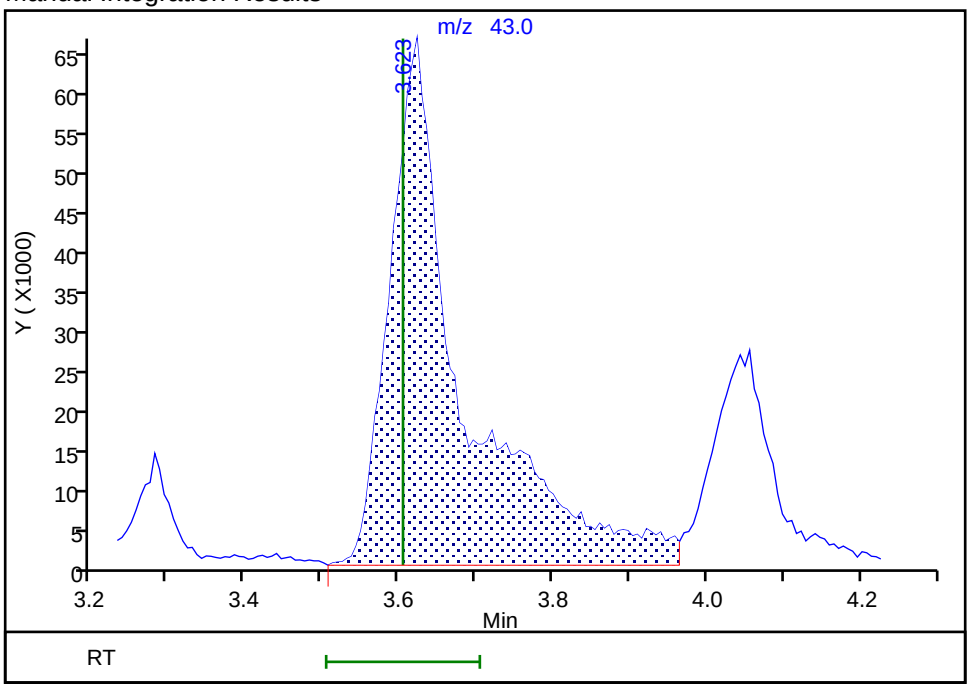
RT: 3.62
Area: 425370
Amount: 44.853776
Amount Units: ug/l

Processing Integration Results



RT: 3.62
Area: 440548
Amount: 46.046518
Amount Units: ug/l

Manual Integration Results



Reviewer: campbellme, 01-Jul-2021 00:52:12
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

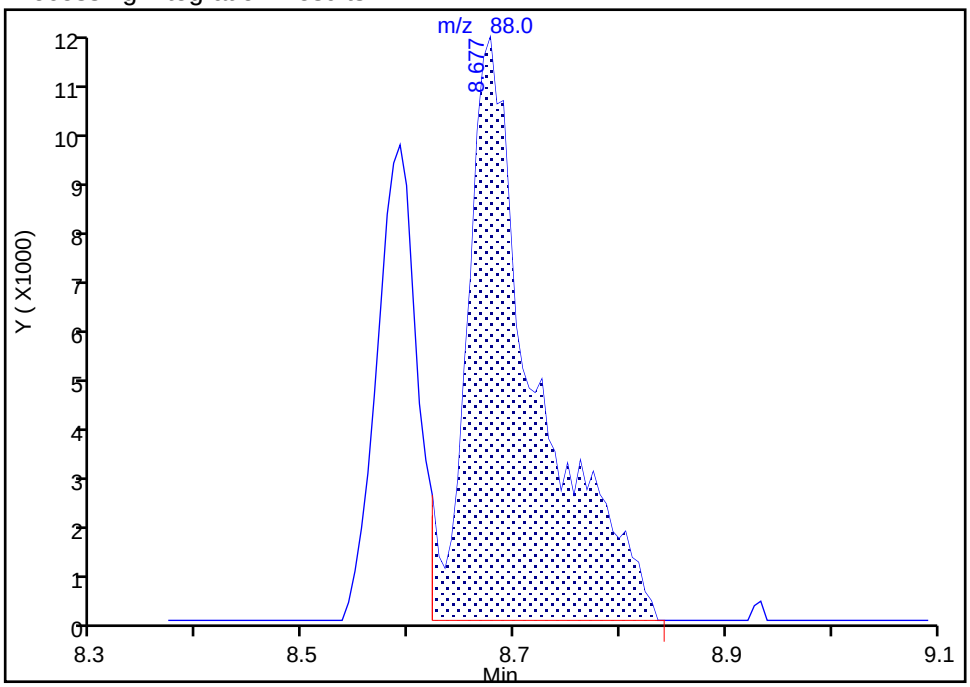
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I13.D				
Injection Date:	30-Jun-2021 19:29:30	Instrument ID:	19094		
Lims ID:	IC std5 5				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

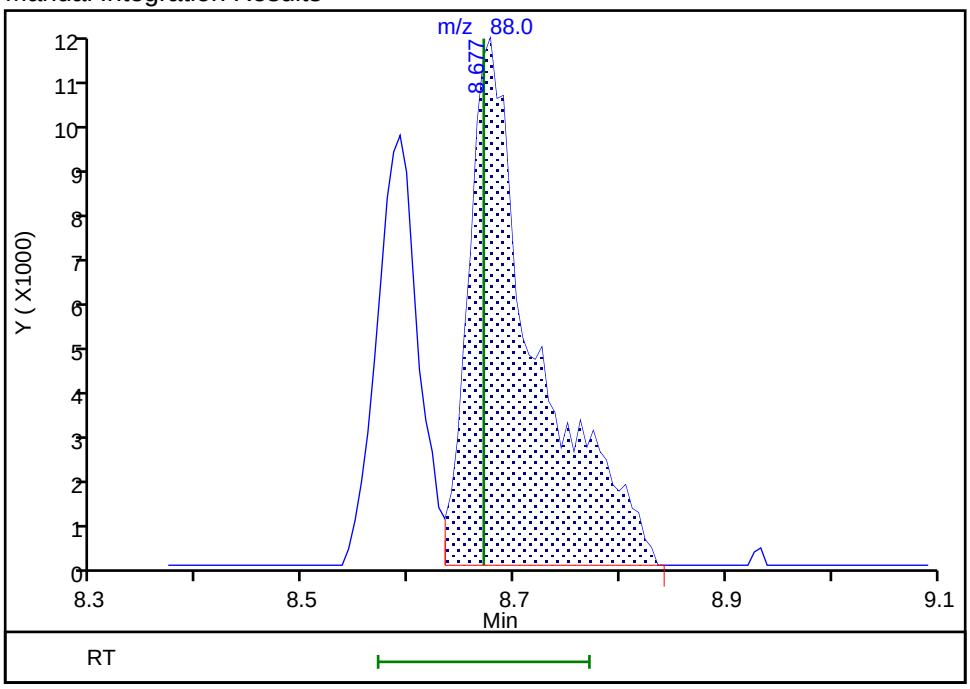
Processing Integration Results

RT: 8.68
Area: 53678
Amount: 276.3447
Amount Units: ug/l



Manual Integration Results

RT: 8.68
Area: 52279
Amount: 259.6189
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:43:25

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I14.D
Lims ID: IC std4 2
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Jun-2021 19:49:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033290-017
Misc. Info.: IC STD4 2
Operator ID: jml01693 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Jul-2021 16:18:28 Calib Date: 30-Jun-2021 20:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: campbellme Date: 01-Jul-2021 00:45:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	2.007	2.007	0.000	99	138915	2.00	2.07	M
6 Chloromethane	50	2.196	2.196	0.000	99	161392	2.00	1.98	
8 Butadiene	39	2.312	2.312	0.000	92	156564	2.00	2.08	
7 Vinyl chloride	62	2.324	2.324	0.000	83	159630	2.00	1.94	
9 Bromomethane	94	2.635	2.635	0.000	90	122506	2.00	2.01	
10 Chloroethane	64	2.721	2.721	0.000	100	108575	2.00	2.04	
11 Dichlorofluoromethane	67	2.971	2.971	0.000	97	248263	2.00	2.03	
13 Trichlorofluoromethane	101	3.044	3.044	0.000	97	223111	2.00	2.06	
15 Ethyl ether	59	3.282	3.282	0.000	91	93912	2.00	2.01	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.373	3.373	0.000	94	176353	2.00	2.04	
17 Acrolein	56	3.458	3.458	0.000	99	761837	100.0	100.5	
18 1,1-Dichloroethene	96	3.605	3.605	0.000	98	125071	2.00	1.99	
19 Acetone	43	3.611	3.611	0.000	82	181864	20.0	19.0	M
20 112TCTFE	101	3.635	3.635	0.000	93	138808	2.00	2.08	
21 Isopropyl alcohol	45	3.769	3.769	0.000	30	77336	40.0	41.9	M
22 Iodomethane	142	3.806	3.806	0.000	98	222043	2.00	2.02	
23 Ethyl bromide	108	3.824	3.824	0.000	96	107556	2.00	2.04	
24 Carbon disulfide	76	3.916	3.916	0.000	99	379081	2.00	2.01	
26 Methyl acetate	43	4.056	4.056	0.000	39	49151	2.00	1.72	
27 3-Chloro-1-propene	41	4.080	4.080	0.000	94	224215	2.00	2.03	
* 28 t-Butyl alcohol-d10 (IS)	65	4.269	4.269	0.000	89	130548	50.0	50.0	
29 Methylene Chloride	84	4.263	4.263	0.000	93	132393	2.00	2.01	
30 2-Methyl-2-propanol	59	4.385	4.385	0.000	98	120927	40.0	40.5	
31 Acrylonitrile	53	4.617	4.617	0.000	96	62935	5.00	5.03	M
32 Methyl tert-butyl ether	73	4.665	4.665	0.000	95	296149	2.00	1.99	
33 trans-1,2-Dichloroethene	96	4.696	4.696	0.000	99	134377	2.00	1.98	
34 Hexane	57	5.117	5.117	0.000	92	223862	2.00	2.07	
35 1,1-Dichloroethane	63	5.348	5.348	0.000	95	249883	2.00	2.01	
37 Isopropyl ether	45	5.397	5.397	0.000	97	439271	2.00	2.02	
38 2-Chloro-1,3-butadiene	53	5.458	5.458	0.000	89	209804	2.00	2.00	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.934	5.934	0.000	98	382829	2.00	2.03	
41 2-Butanone (MEK)	43	6.135	6.135	0.000	100	313488	20.0	19.6	
S 40 1,2-Dichloroethene, Total	100				0			3.98	
42 cis-1,2-Dichloroethene	96	6.183	6.183	0.000	81	148841	2.00	1.99	
43 2,2-Dichloropropane	77	6.190	6.190	0.000	73	201027	2.00	1.98	
45 Propionitrile	54	6.214	6.214	0.000	98	182497	40.0	40.1	
47 Methacrylonitrile	67	6.440	6.440	0.000	91	332590	20.0	19.9	
48 Chlorobromomethane	128	6.507	6.507	0.000	97	61080	2.00	2.04	
49 Tetrahydrofuran	71	6.531	6.531	0.000	78	44399	10.0	9.99	
50 Chloroform	83	6.659	6.659	0.000	93	234689	2.00	2.01	
$ 51 Dibromofluoromethane (Surr)	113	6.872	6.872	0.000	94	566710	10.0	9.88	
52 1,1,1-Trichloroethane	97	6.891	6.891	0.000	98	212588	2.00	1.98	
53 Cyclohexane	56	6.994	6.994	0.000	90	282228	2.00	2.09	
55 1,1-Dichloropropene	75	7.104	7.104	0.000	97	201187	2.00	2.04	
56 Carbon tetrachloride	117	7.110	7.110	0.000	83	186450	2.00	2.01	
57 Isobutyl alcohol	41	7.232	7.232	0.000	95	106453	100.0	94.0	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.330	7.330	0.000	80	113733	10.0	9.82	
59 Benzene	78	7.366	7.366	0.000	96	574020	2.00	2.02	
60 1,2-Dichloroethane	62	7.439	7.439	0.000	96	129699	2.00	1.87	
62 Tert-amyl methyl ether	73	7.555	7.555	0.000	99	336551	2.00	2.02	
* 65 Fluorobenzene (IS)	96	7.769	7.769	0.000	98	2370175	10.0	10.0	
64 n-Heptane	43	7.781	7.781	0.000	93	244002	2.00	2.06	
66 n-Butanol	56	8.122	8.122	0.000	86	174266	175.0	175.8	
67 Trichloroethene	95	8.250	8.250	0.000	98	151559	2.00	2.07	
68 Methylcyclohexane	83	8.567	8.567	0.000	94	287061	2.00	2.08	
70 1,2-Dichloropropane	63	8.585	8.585	0.000	73	149923	2.00	2.04	
69 2-ethoxy-2-methyl butane	87	8.592	8.592	0.000	89	187955	2.00	2.03	
71 Methyl methacrylate	69	8.665	8.665	0.000	93	59244	2.00	1.92	
72 1,4-Dioxane	88	8.671	8.671	0.000	38	23116	100.0	114.6	M
73 Dibromomethane	93	8.689	8.689	0.000	96	65152	2.00	2.07	
75 Dichlorobromomethane	83	8.927	8.927	0.000	99	168091	2.00	2.05	
76 2-Nitropropane	41	9.195	9.195	0.000	98	79219	10.0	9.72	
79 1-Bromo-2-chloroethane	63	9.323	9.323	0.000	98	143708	2.00	2.01	
80 cis-1,3-Dichloropropene	75	9.476	9.476	0.000	97	218728	2.00	2.06	
81 4-Methyl-2-pentanone (MIBK)	43	9.640	9.640	0.000	96	804194	20.0	20.0	
$ 82 Toluene-d8 (Surr)	98	9.780	9.780	0.000	93	2343496	10.0	10.0	
83 Toluene	92	9.860	9.860	0.000	98	358689	2.00	2.01	
S 84 1,3-Dichloropropene, Total	100				0			4.10	
85 trans-1,3-Dichloropropene	75	10.110	10.110	0.000	91	170576	2.00	2.04	
86 Ethyl methacrylate	69	10.170	10.170	0.000	89	131550	2.00	2.06	
87 1,1,2-Trichloroethane	97	10.317	10.317	0.000	89	93531	2.00	2.05	
88 Tetrachloroethene	166	10.408	10.408	0.000	97	157898	2.00	2.04	
89 1,3-Dichloropropane	76	10.475	10.475	0.000	89	164681	2.00	2.08	
91 2-Hexanone	43	10.524	10.524	0.000	96	542006	20.0	19.7	
93 Chlorodibromomethane	129	10.695	10.695	0.000	89	113678	2.00	2.01	
94 Ethylene Dibromide	107	10.805	10.805	0.000	98	86844	2.00	1.98	
* 97 Chlorobenzene-d5 (IS)	117	11.237	11.237	0.000	86	1742684	10.0	10.0	
96 1-Chlorohexane	91	11.243	11.243	0.000	97	217321	2.00	2.00	
S 95 Xylenes, Total	106				0			6.11	
98 Chlorobenzene	112	11.262	11.262	0.000	96	384144	2.00	2.03	
100 Ethylbenzene	91	11.347	11.347	0.000	98	684274	2.00	2.03	
99 1,1,1,2-Tetrachloroethane	131	11.347	11.347	0.000	97	131450	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
101 m-Xylene & p-Xylene	106	11.463	11.463	0.000	98	524881	4.00	4.07	
102 o-Xylene	106	11.792	11.792	0.000	95	260295	2.00	2.04	
103 Styrene	104	11.804	11.804	0.000	94	414592	2.00	2.03	
104 Bromoform	173	11.963	11.963	0.000	96	63547	2.00	2.03	
105 Isopropylbenzene	105	12.091	12.091	0.000	95	671280	2.00	2.04	
$ 108 4-Bromofluorobenzene (Surr)	95	12.237	12.237	0.000	89	857695	10.0	10.0	
109 1,1,2,2-Tetrachloroethane	83	12.335	12.335	0.000	93	111158	2.00	1.98	
111 Bromobenzene	156	12.353	12.353	0.000	94	143640	2.00	2.02	
110 trans-1,4-Dichloro-2-butene	53	12.359	12.359	0.000	90	282634	20.0	20.1	
112 1,2,3-Trichloropropane	110	12.383	12.383	0.000	83	29390	2.00	2.05	
113 N-Propylbenzene	91	12.420	12.420	0.000	99	805258	2.00	2.05	
114 2-Chlorotoluene	126	12.493	12.493	0.000	97	153173	2.00	2.00	
115 1,3,5-Trimethylbenzene	105	12.554	12.554	0.000	94	561452	2.00	2.05	
116 4-Chlorotoluene	126	12.585	12.585	0.000	97	158846	2.00	2.05	
118 tert-Butylbenzene	134	12.798	12.798	0.000	93	118881	2.00	1.99	
119 Pentachloroethane	167	12.829	12.829	0.000	82	88184	2.00	1.99	
120 1,2,4-Trimethylbenzene	105	12.835	12.835	0.000	96	561086	2.00	2.00	
121 sec-Butylbenzene	105	12.957	12.957	0.000	94	710997	2.00	2.05	
122 1,3-Dichlorobenzene	146	13.060	13.060	0.000	97	293098	2.00	2.00	
123 4-Isopropyltoluene	119	13.066	13.066	0.000	97	602094	2.00	2.05	
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	95	925401	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.133	13.133	0.000	95	293408	2.00	2.03	
126 1,2,3-Trimethylbenzene	120	13.139	13.139	0.000	99	247797	2.00	1.99	
127 Benzyl chloride	126	13.206	13.206	0.000	98	46025	2.00	2.00	
130 n-Butylbenzene	92	13.359	13.359	0.000	98	300776	2.00	2.04	
131 1,2-Dichlorobenzene	146	13.395	13.395	0.000	98	271331	2.00	2.04	
129 p-Diethylbenzene	119	13.408	13.408	0.000	87	302527	2.00	2.04	
134 1,2-Dibromo-3-Chloropropane	155	13.932	13.932	0.000	81	16991	2.00	2.11	
135 1,3,5-Trichlorobenzene	180	14.060	14.060	0.000	97	215876	2.00	2.04	
136 1,2,4-Trichlorobenzene	180	14.481	14.481	0.000	94	185008	2.00	2.06	
137 Hexachlorobutadiene	225	14.566	14.566	0.000	97	78006	2.00	1.90	
138 Naphthalene	128	14.664	14.664	0.000	97	350947	2.00	2.03	
139 1,2,3-Trichlorobenzene	180	14.810	14.810	0.000	96	160424	2.00	2.06	
140 2-Methylnaphthalene	142	15.444	15.444	0.000	92	207460	2.00	2.07	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00006	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00007	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00010	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00001	Amount Added:	5.00	Units: uL	Run Reagent

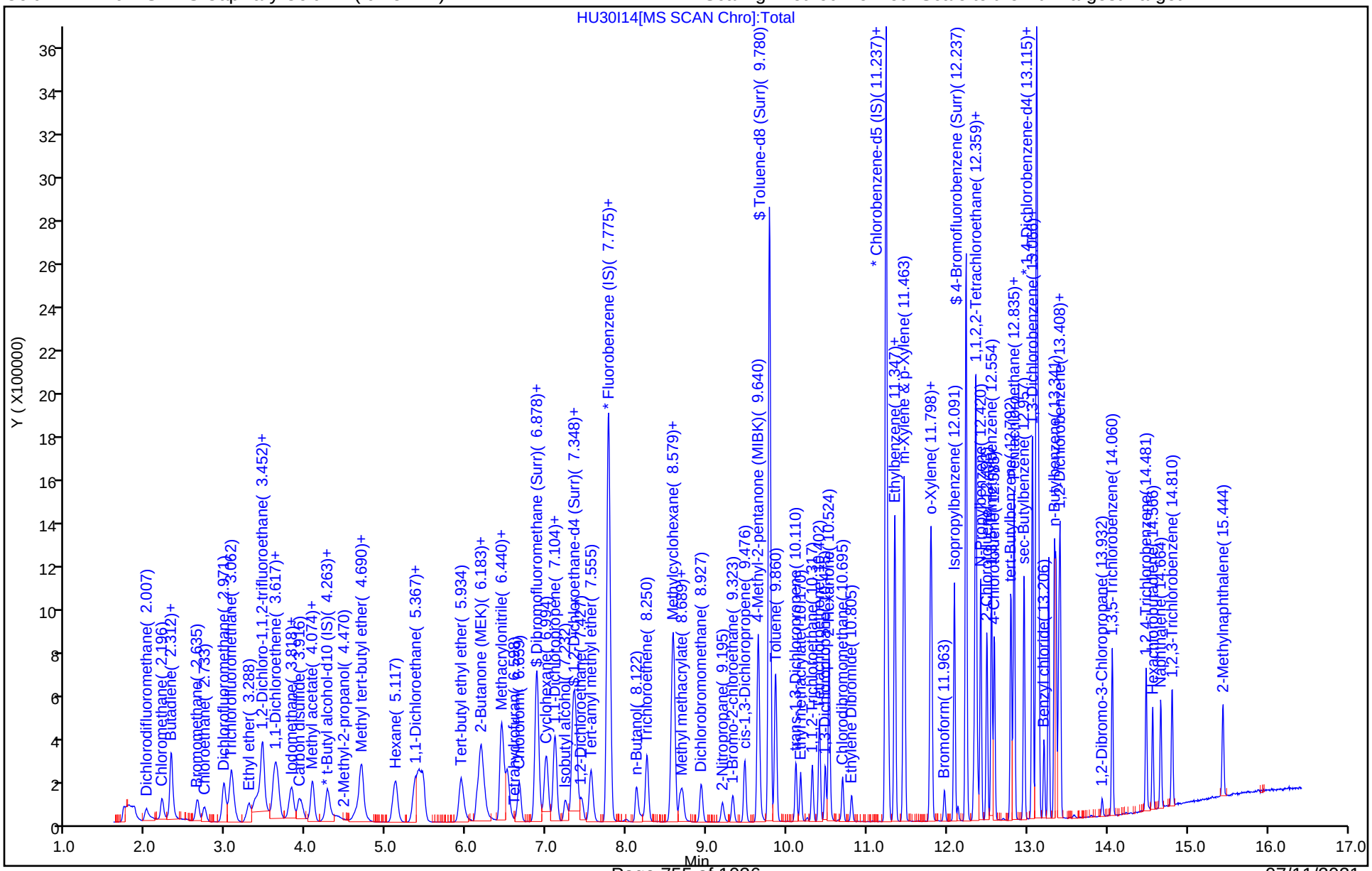
Report Date: 01-Jul-2021 16:18:30 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I14.D

Injection Date:	30-Jun-2021 19:49:30	Instrument ID:	19094	Operator ID:	jml01693
Lims ID:	IC std4 2			Worklist Smp#:	17
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

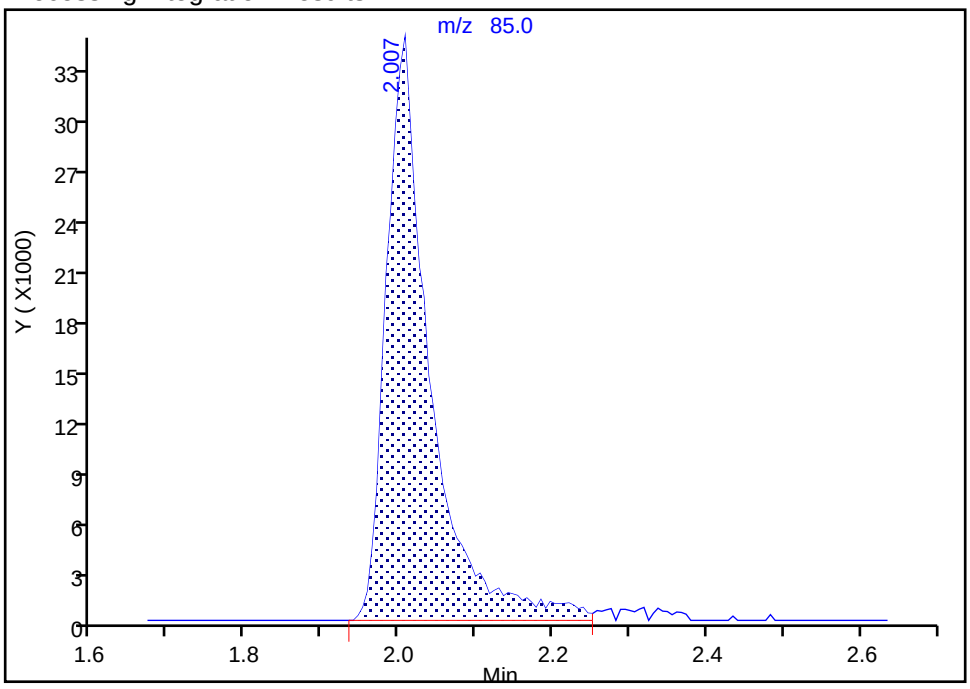
Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I14.D
Injection Date: 30-Jun-2021 19:49:30 Instrument ID: 19094
Lims ID: IC std4 2
Client ID:
Operator ID: jml01693 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

3 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

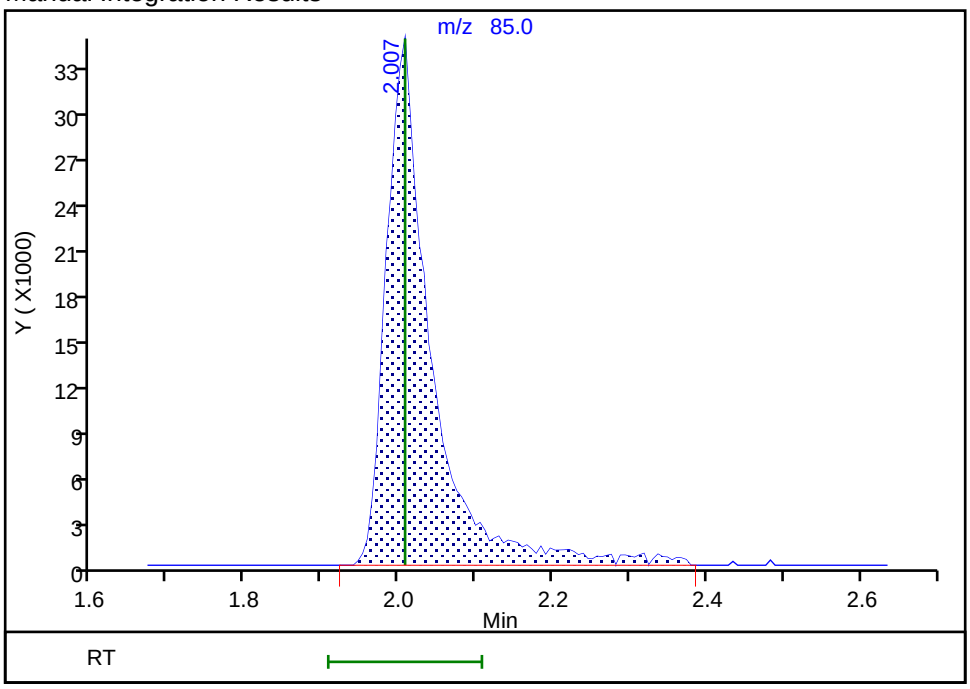
Processing Integration Results

RT: 2.01
Area: 135234
Amount: 2.052814
Amount Units: ug/l



Manual Integration Results

RT: 2.01
Area: 138915
Amount: 2.066044
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:44:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

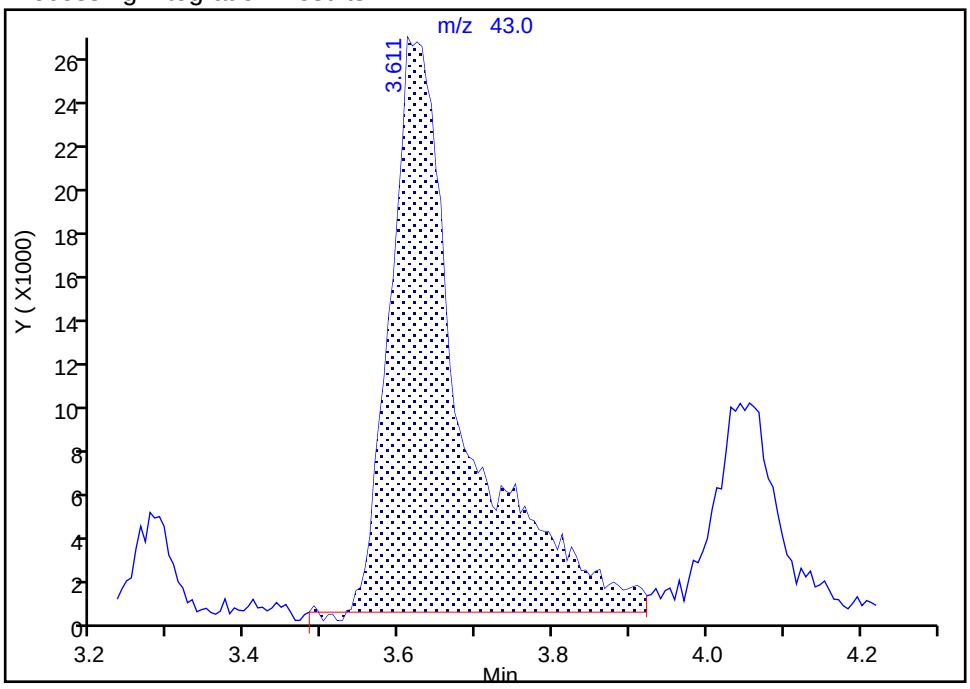
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I14.D				
Injection Date:	30-Jun-2021 19:49:30	Instrument ID:	19094		
Lims ID:	IC std4 2				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

19 Acetone, CAS: 67-64-1

Signal: 1

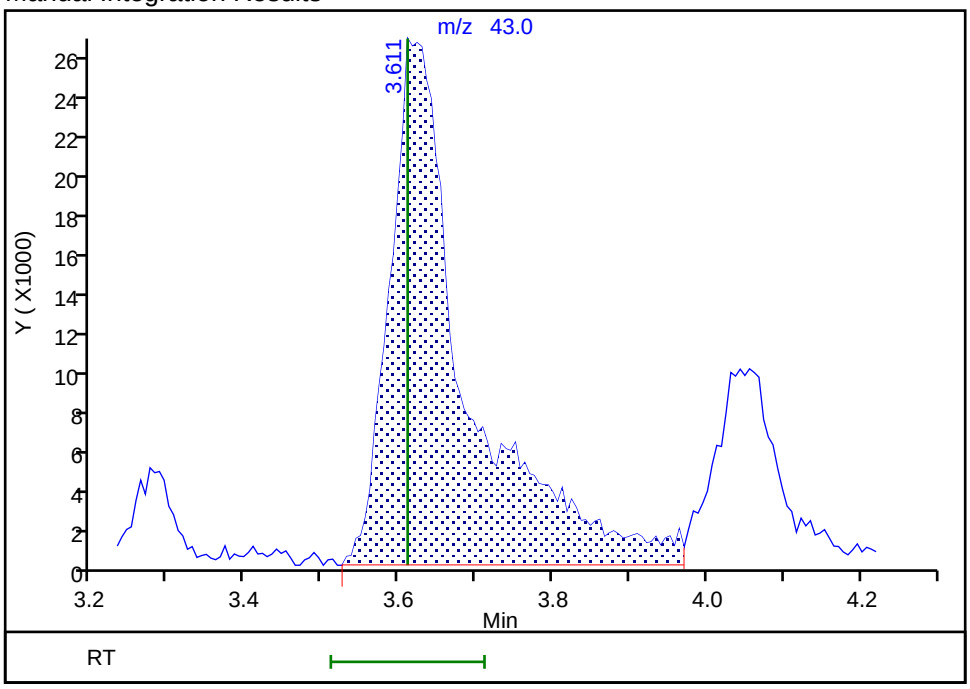
Processing Integration Results

RT: 3.61
Area: 169613
Amount: 18.018170
Amount Units: ug/l



Manual Integration Results

RT: 3.61
Area: 181864
Amount: 18.973662
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:51:46
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

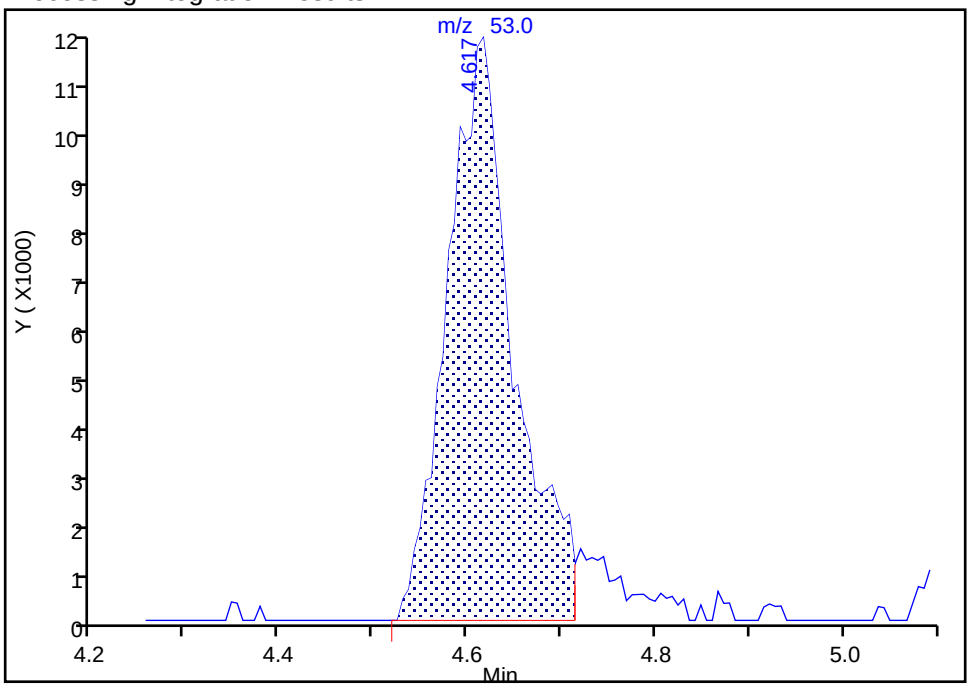
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I14.D				
Injection Date:	30-Jun-2021 19:49:30	Instrument ID:	19094		
Lims ID:	IC std4 2				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

31 Acrylonitrile, CAS: 107-13-1

Signal: 1

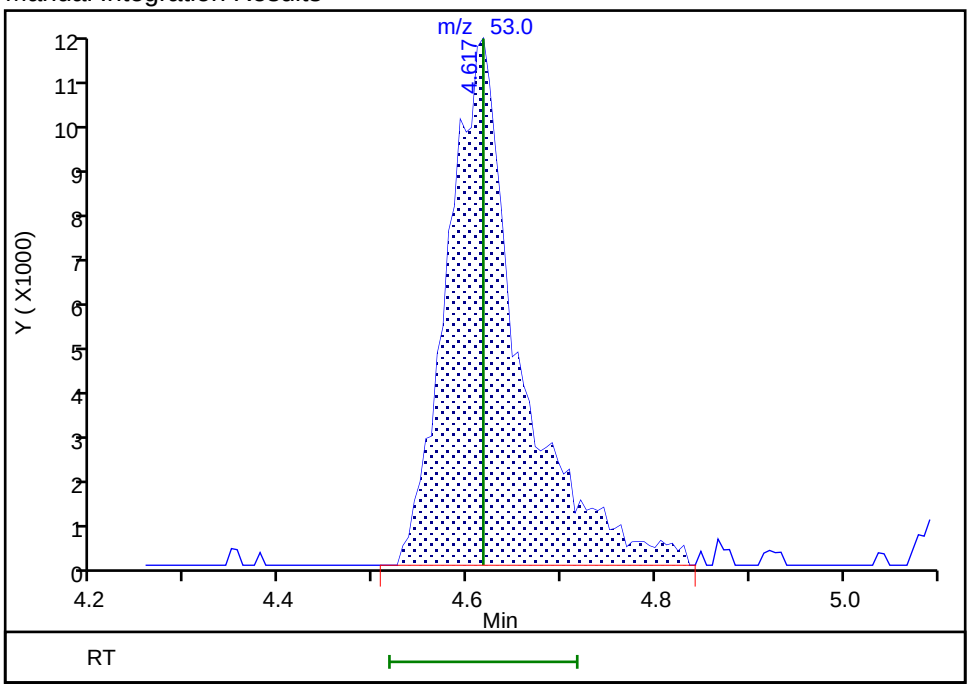
Processing Integration Results

RT: 4.62
Area: 57847
Amount: 4.886987
Amount Units: ug/l



Manual Integration Results

RT: 4.62
Area: 62935
Amount: 5.031256
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:44:25

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

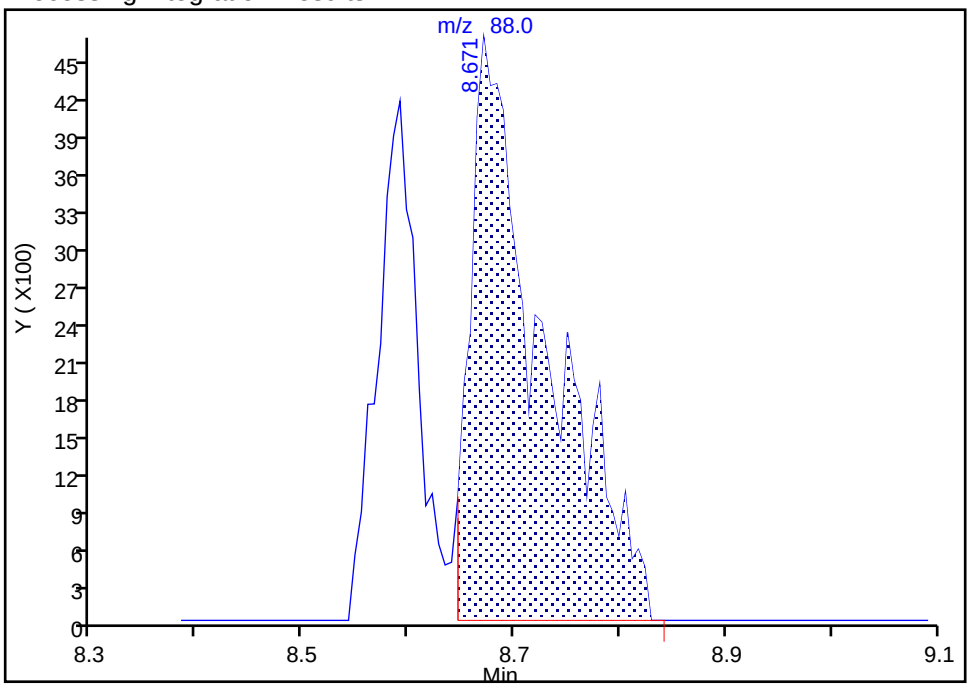
Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I14.D
Injection Date: 30-Jun-2021 19:49:30 Instrument ID: 19094
Lims ID: IC std4 2
Client ID:
Operator ID: jml01693 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

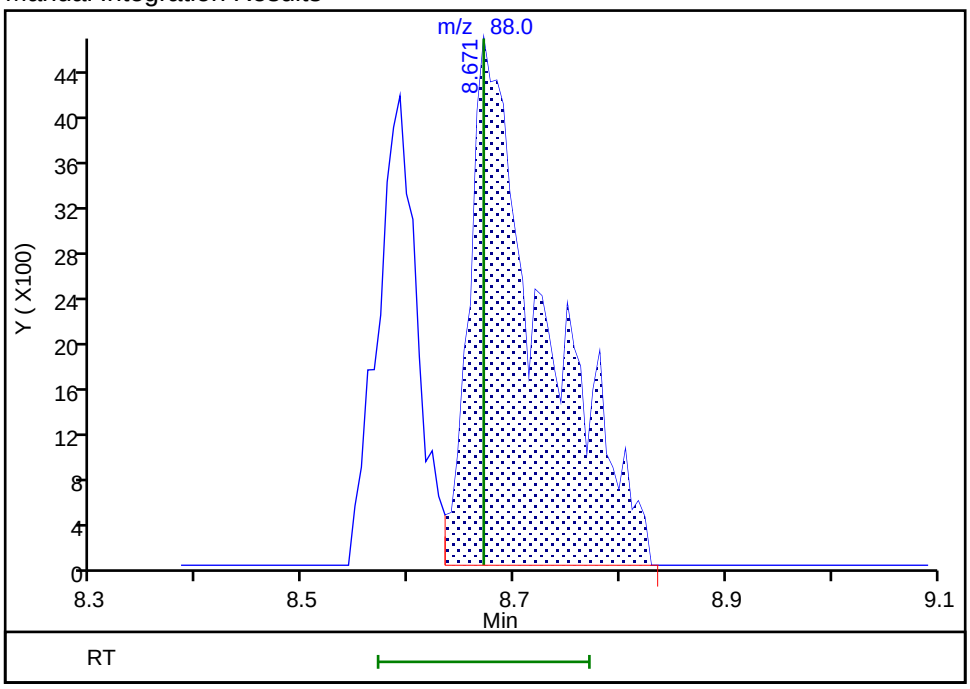
Processing Integration Results

RT: 8.67
Area: 22783
Amount: 117.5595
Amount Units: ug/l



Manual Integration Results

RT: 8.67
Area: 23116
Amount: 114.5836
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:44:46
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I15.D
Lims ID: IC std3 1
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 30-Jun-2021 20:10:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033290-018
Misc. Info.: IC STD3 1
Operator ID: jml01693 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Jul-2021 16:18:36 Calib Date: 30-Jun-2021 20:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: campbellme Date: 01-Jul-2021 00:46:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	2.001	2.007	-0.006	99	66364	1.00	0.9850	
6 Chloromethane	50	2.184	2.196	-0.012	99	80619	1.00	0.9887	
8 Butadiene	39	2.306	2.312	-0.006	92	78040	1.00	1.04	
7 Vinyl chloride	62	2.312	2.324	-0.012	77	83686	1.00	1.02	M
9 Bromomethane	94	2.629	2.635	-0.006	90	60093	1.00	0.9859	
10 Chloroethane	64	2.721	2.721	0.000	100	53016	1.00	1.00	
11 Dichlorofluoromethane	67	2.959	2.971	-0.012	97	123533	1.00	1.01	
13 Trichlorofluoromethane	101	3.038	3.044	-0.006	98	108599	1.00	1.00	
15 Ethyl ether	59	3.276	3.282	-0.006	92	46497	1.00	0.99	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.367	3.373	-0.006	93	84470	1.00	0.9764	
17 Acrolein	56	3.446	3.458	-0.012	99	377461	50.0	51.1	M
18 1,1-Dichloroethene	96	3.593	3.605	-0.012	97	62094	1.00	0.9881	
19 Acetone	43	3.617	3.611	0.006	75	92153	10.0	9.87	M
20 112TCTFE	101	3.623	3.635	-0.012	95	67947	1.00	1.02	
21 Isopropyl alcohol	45	3.751	3.769	-0.018	96	40988	20.0	22.1	M
22 Iodomethane	142	3.788	3.806	-0.018	100	106201	1.00	0.9623	
23 Ethyl bromide	108	3.812	3.824	-0.012	99	50430	1.00	0.9524	
24 Carbon disulfide	76	3.910	3.916	-0.006	98	182745	1.00	0.9676	
26 Methyl acetate	43	4.056	4.056	0.000	94	22808	1.00	0.8214	
27 3-Chloro-1-propene	41	4.062	4.080	-0.018	95	107556	1.00	0.9695	
29 Methylene Chloride	84	4.257	4.263	-0.006	93	65226	1.00	0.9897	
* 28 t-Butyl alcohol-d10 (IS)	65	4.233	4.269	-0.036	88	127180	50.0	50.0	
30 2-Methyl-2-propanol	59	4.373	4.385	-0.012	98	56455	20.0	19.4	M
31 Acrylonitrile	53	4.611	4.617	-0.006	62	29478	2.50	2.42	
32 Methyl tert-butyl ether	73	4.684	4.665	0.019	80	148415	1.00	1.00	
33 trans-1,2-Dichloroethene	96	4.678	4.696	-0.018	98	65953	1.00	0.9721	
34 Hexane	57	5.105	5.117	-0.013	91	108339	1.00	1.00	
35 1,1-Dichloroethane	63	5.342	5.348	-0.006	95	123496	1.00	0.99	
37 Isopropyl ether	45	5.385	5.397	-0.012	96	216486	1.00	0.99	
38 2-Chloro-1,3-butadiene	53	5.446	5.458	-0.012	89	104470	1.00	0.99	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.921	5.934	-0.013	99	185822	1.00	0.9816	
41 2-Butanone (MEK)	43	6.135	6.135	0.000	100	160322	10.0	10.3	
S 40 1,2-Dichloroethene, Total	100				0			1.95	
42 cis-1,2-Dichloroethene	96	6.171	6.183	-0.012	82	72968	1.00	0.9745	
43 2,2-Dichloropropane	77	6.196	6.190	0.006	85	99215	1.00	0.9757	
45 Propionitrile	54	6.226	6.214	0.012	96	88284	20.0	19.9	
47 Methacrylonitrile	67	6.434	6.440	-0.006	91	163270	10.0	10.0	
48 Chlorobromomethane	128	6.513	6.507	0.006	97	29194	1.00	0.9742	
49 Tetrahydrofuran	71	6.513	6.531	-0.018	76	22586	5.00	5.21	
50 Chloroform	83	6.653	6.659	-0.006	93	115860	1.00	0.9894	
$ 51 Dibromofluoromethane (Surr)	113	6.872	6.872	0.000	93	569771	10.0	9.92	
52 1,1,1-Trichloroethane	97	6.885	6.891	-0.006	98	104482	1.00	0.9714	
53 Cyclohexane	56	6.988	6.994	-0.006	89	134731	1.00	1.00	
55 1,1-Dichloropropene	75	7.098	7.104	-0.006	98	96932	1.00	0.9793	
56 Carbon tetrachloride	117	7.104	7.110	-0.006	86	89759	1.00	0.9662	
57 Isobutyl alcohol	41	7.226	7.232	-0.006	96	55793	50.0	50.6	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.330	7.330	0.000	80	117606	10.0	10.1	
59 Benzene	78	7.360	7.366	-0.006	95	276493	1.00	0.9721	
60 1,2-Dichloroethane	62	7.427	7.439	-0.012	97	70042	1.00	1.01	
62 Tert-amyl methyl ether	73	7.549	7.555	-0.006	99	163890	1.00	0.9841	
* 65 Fluorobenzene (IS)	96	7.769	7.769	0.000	99	2375123	10.0	10.0	
64 n-Heptane	43	7.781	7.781	0.000	88	118198	1.00	1.00	
66 n-Butanol	56	8.122	8.122	0.000	88	80263	87.5	83.1	
67 Trichloroethene	95	8.250	8.250	0.000	98	72534	1.00	0.99	
68 Methylcyclohexane	83	8.567	8.567	0.000	92	136413	1.00	0.9856	
70 1,2-Dichloropropane	63	8.579	8.585	-0.006	75	73856	1.00	1.00	
69 2-ethoxy-2-methyl butane	87	8.586	8.592	-0.006	91	88935	1.00	0.9575	
71 Methyl methacrylate	69	8.659	8.665	-0.006	92	29268	1.00	0.9747	
72 1,4-Dioxane	88	8.671	8.671	0.000	38	9956	50.0	50.7	
73 Dibromomethane	93	8.695	8.689	0.006	97	31242	1.00	0.99	
75 Dichlorobromomethane	83	8.927	8.927	0.000	99	80478	1.00	0.9783	
76 2-Nitropropane	41	9.195	9.195	0.000	98	38781	5.00	4.89	
79 1-Bromo-2-chloroethane	63	9.323	9.323	0.000	98	69109	1.00	0.9667	
80 cis-1,3-Dichloropropene	75	9.470	9.476	-0.006	96	104079	1.00	0.9776	
81 4-Methyl-2-pentanone (MIBK)	43	9.640	9.640	0.000	96	392816	10.0	10.0	
$ 82 Toluene-d8 (Surr)	98	9.780	9.780	0.000	93	2359714	10.0	9.97	
83 Toluene	92	9.854	9.860	-0.006	99	181542	1.00	1.01	
S 84 1,3-Dichloropropene, Total	100				0			1.96	
85 trans-1,3-Dichloropropene	75	10.110	10.110	0.000	91	83292	1.00	0.9849	
86 Ethyl methacrylate	69	10.171	10.170	0.001	88	63584	1.00	0.9831	
87 1,1,2-Trichloroethane	97	10.317	10.317	0.000	89	45845	1.00	1.00	
88 Tetrachloroethene	166	10.402	10.408	-0.006	97	76238	1.00	0.9734	
89 1,3-Dichloropropane	76	10.475	10.475	0.000	87	81109	1.00	1.01	
91 2-Hexanone	43	10.524	10.524	0.000	97	268297	10.0	10.0	
93 Chlorodibromomethane	129	10.695	10.695	0.000	90	54928	1.00	0.9604	
94 Ethylene Dibromide	107	10.805	10.805	0.001	99	43997	1.00	0.99	
* 97 Chlorobenzene-d5 (IS)	117	11.237	11.237	0.000	86	1761735	10.0	10.0	
96 1-Chlorohexane	91	11.244	11.243	0.001	95	106347	1.00	0.9692	
S 95 Xylenes, Total	106				0			2.95	
98 Chlorobenzene	112	11.262	11.262	0.000	95	189144	1.00	0.9879	
100 Ethylbenzene	91	11.347	11.347	0.000	98	333584	1.00	0.9785	
99 1,1,1,2-Tetrachloroethane	131	11.347	11.347	0.000	96	63655	1.00	0.9739	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 m-Xylene & p-Xylene	106	11.463	11.463	0.000	98	257064	2.00	1.97	
102 o-Xylene	106	11.792	11.792	0.000	96	126601	1.00	0.9813	
103 Styrene	104	11.804	11.804	0.000	94	200036	1.00	0.9683	
104 Bromoform	173	11.963	11.963	0.000	96	30349	1.00	0.9600	
105 Isopropylbenzene	105	12.091	12.091	0.000	95	329083	1.00	0.9888	
$ 108 4-Bromofluorobenzene (Surr)	95	12.237	12.237	0.000	89	869052	10.0	10.1	
109 1,1,2,2-Tetrachloroethane	83	12.329	12.335	-0.006	94	54467	1.00	0.9654	
111 Bromobenzene	156	12.353	12.353	0.000	94	71823	1.00	1.00	
110 trans-1,4-Dichloro-2-butene	53	12.359	12.359	0.000	92	140522	10.0	10.2	
112 1,2,3-Trichloropropane	110	12.384	12.383	0.001	82	14760	1.00	1.02	
113 N-Propylbenzene	91	12.420	12.420	0.000	99	385296	1.00	0.9765	
114 2-Chlorotoluene	126	12.499	12.493	0.006	97	76419	1.00	0.99	
115 1,3,5-Trimethylbenzene	105	12.554	12.554	0.000	94	267877	1.00	0.9701	
116 4-Chlorotoluene	126	12.585	12.585	0.000	98	76197	1.00	0.9788	
118 tert-Butylbenzene	134	12.792	12.798	-0.006	93	58182	1.00	0.9682	
119 Pentachloroethane	167	12.829	12.829	0.001	83	42777	1.00	0.9594	
120 1,2,4-Trimethylbenzene	105	12.835	12.835	0.000	97	277722	1.00	0.9860	
121 sec-Butylbenzene	105	12.957	12.957	0.000	94	340566	1.00	0.9764	
122 1,3-Dichlorobenzene	146	13.060	13.060	0.000	97	146613	1.00	0.99	
123 4-Isopropyltoluene	119	13.066	13.066	0.000	97	287327	1.00	0.9738	
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	95	931316	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.133	13.133	0.000	94	143278	1.00	0.9850	
126 1,2,3-Trimethylbenzene	120	13.140	13.139	0.001	98	123375	1.00	0.9846	
127 Benzyl chloride	126	13.213	13.206	0.007	98	22106	1.00	0.9555	
130 n-Butylbenzene	92	13.359	13.359	0.000	98	145342	1.00	0.9782	
131 1,2-Dichlorobenzene	146	13.396	13.395	0.001	97	129078	1.00	0.9651	
129 p-Diethylbenzene	119	13.408	13.408	0.000	87	146902	1.00	0.9835	
134 1,2-Dibromo-3-Chloropropane	155	13.938	13.932	0.006	87	8077	1.00	1.00	
135 1,3,5-Trichlorobenzene	180	14.060	14.060	0.000	98	104194	1.00	0.9778	
136 1,2,4-Trichlorobenzene	180	14.481	14.481	0.000	94	87323	1.00	0.9679	
137 Hexachlorobutadiene	225	14.566	14.566	0.000	95	39826	1.00	0.9634	
138 Naphthalene	128	14.664	14.664	0.000	97	176289	1.00	1.01	
139 1,2,3-Trichlorobenzene	180	14.810	14.810	0.000	96	76158	1.00	0.9724	
140 2-Methylnaphthalene	142	15.438	15.444	-0.006	92	99787	1.00	0.9885	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00006	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00007	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00010	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00001	Amount Added:	5.00	Units: uL	Run Reagent

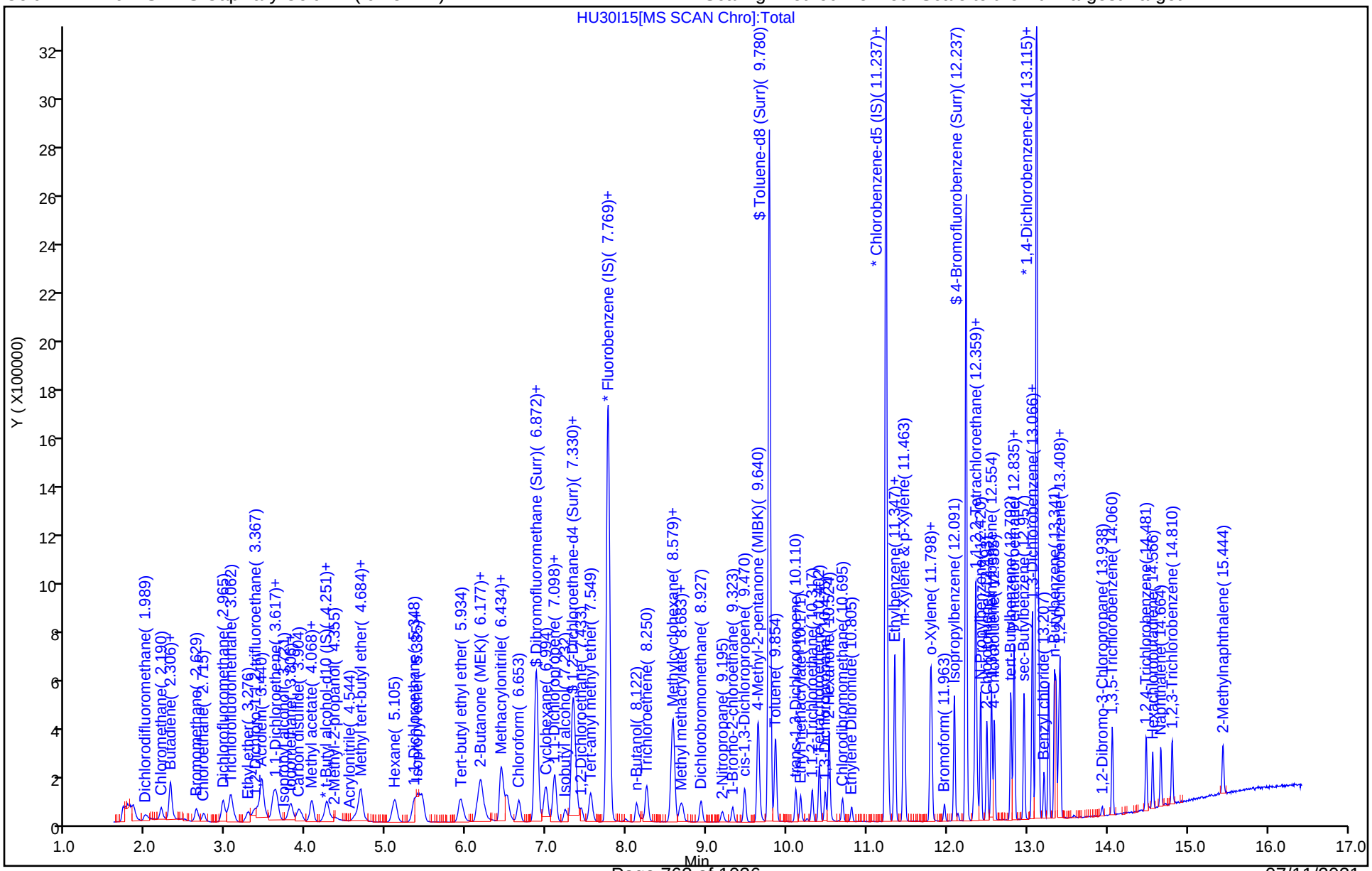
Report Date: 01-Jul-2021 16:18:37 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I15.D

Injection Date:	30-Jun-2021 20:10:30	Instrument ID:	19094	Operator ID:	jml01693
Lims ID:	IC std3 1			Worklist Smp#:	18
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

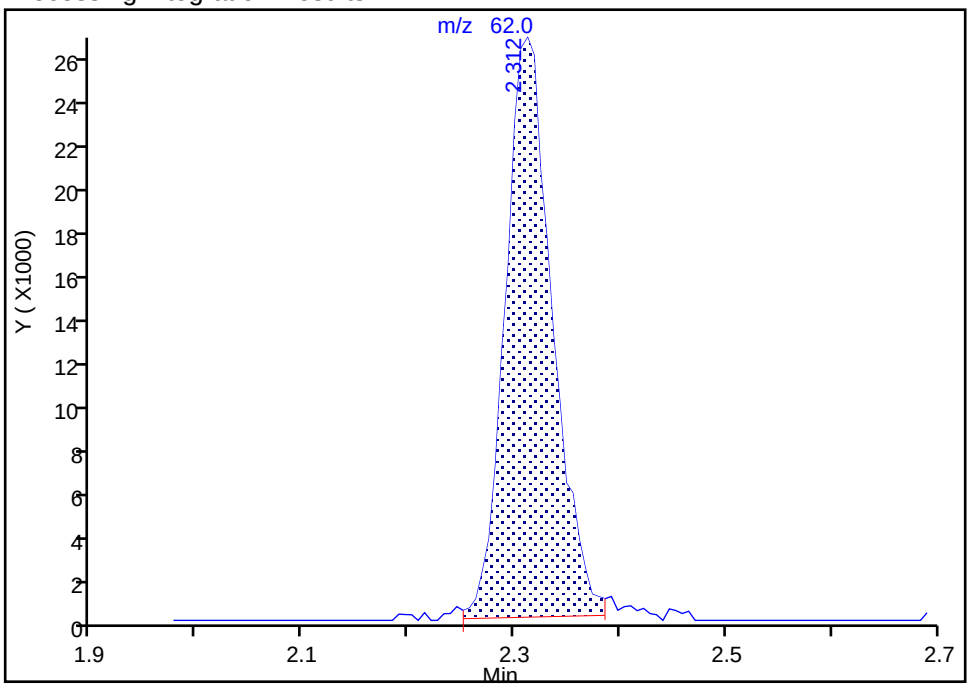
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I15.D				
Injection Date:	30-Jun-2021 20:10:30	Instrument ID:	19094		
Lims ID:	IC std3 1				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

7 Vinyl chloride, CAS: 75-01-4

Signal: 1

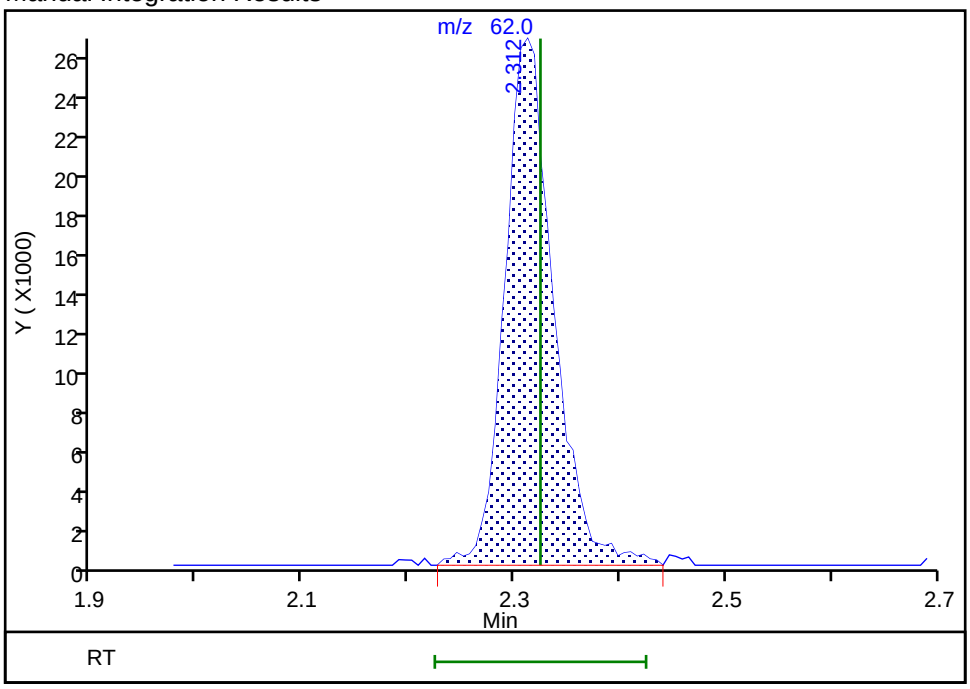
Processing Integration Results

RT: 2.31
Area: 80381
Amount: 0.993409
Amount Units: ug/l



Manual Integration Results

RT: 2.31
Area: 83686
Amount: 1.015979
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:45:20

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

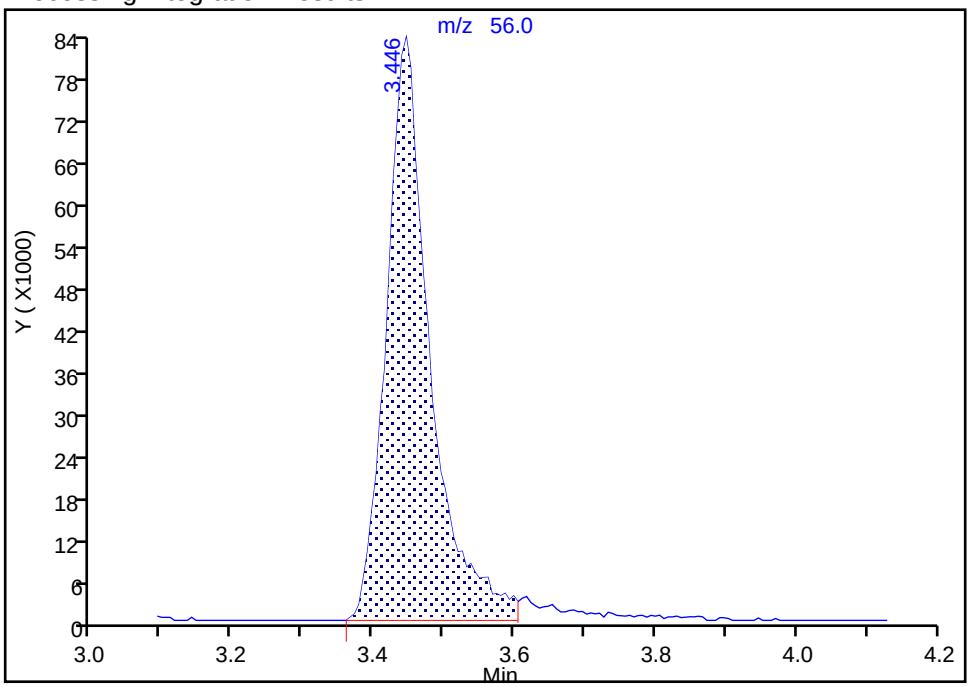
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I15.D				
Injection Date:	30-Jun-2021 20:10:30	Instrument ID:	19094		
Lims ID:	IC std3 1				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

17 Acrolein, CAS: 107-02-8

Signal: 1

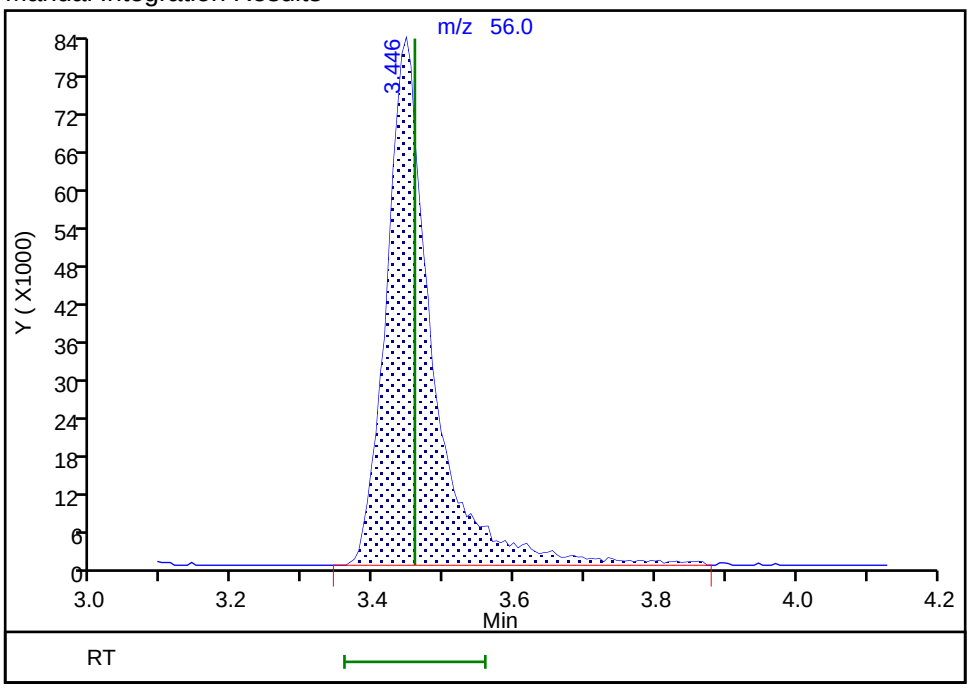
Processing Integration Results

RT: 3.45
Area: 360044
Amount: 49.980304
Amount Units: ug/l



Manual Integration Results

RT: 3.45
Area: 377461
Amount: 51.120496
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:45:30

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

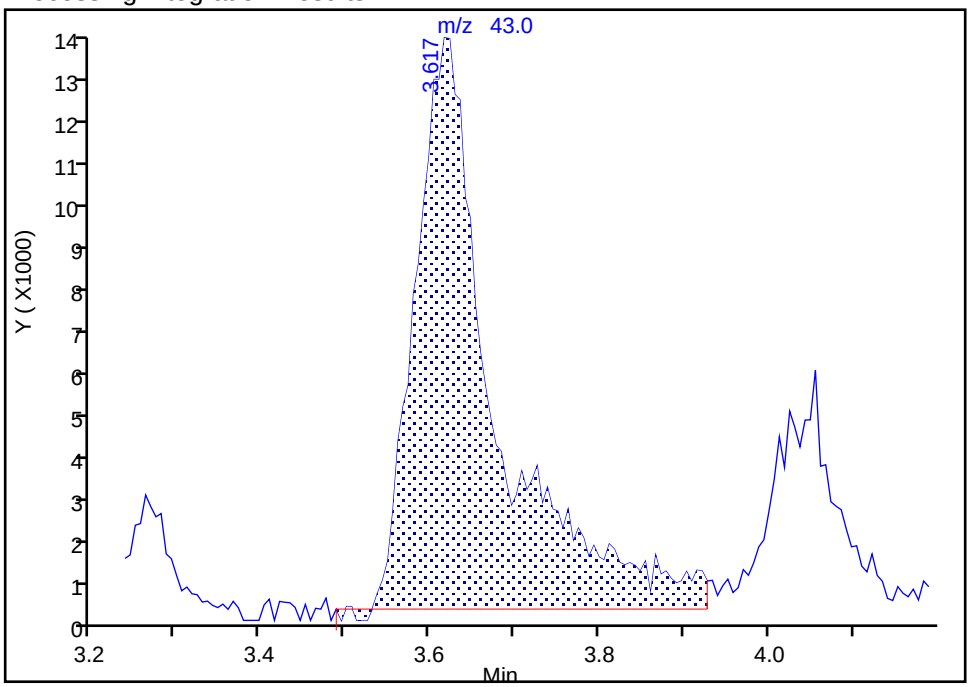
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I15.D				
Injection Date:	30-Jun-2021 20:10:30	Instrument ID:	19094		
Lims ID:	IC std3 1				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

19 Acetone, CAS: 67-64-1

Signal: 1

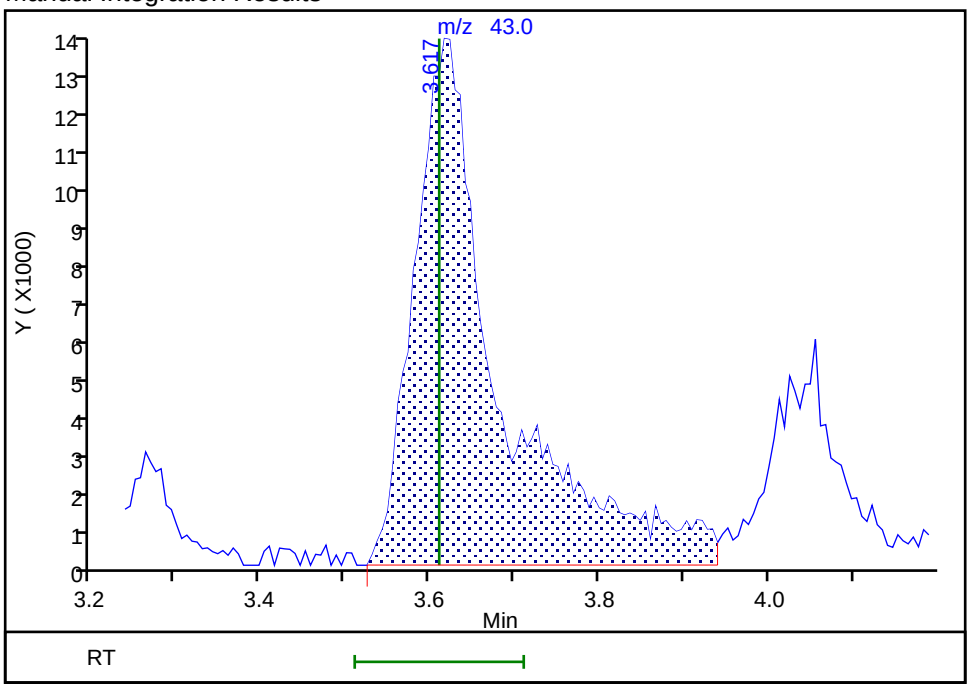
RT: 3.62
Area: 85229
Amount: 9.584204
Amount Units: ug/l

Processing Integration Results



RT: 3.62
Area: 92153
Amount: 9.868822
Amount Units: ug/l

Manual Integration Results



Reviewer: campbellme, 01-Jul-2021 00:45:45
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

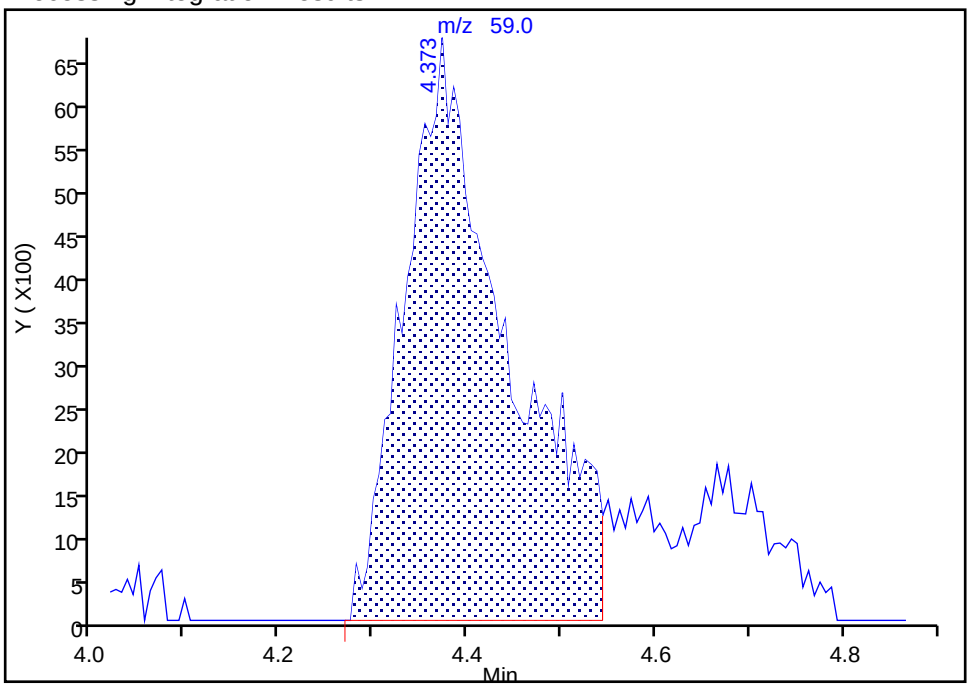
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I15.D				
Injection Date:	30-Jun-2021 20:10:30	Instrument ID:	19094		
Lims ID:	IC std3 1				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

30 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

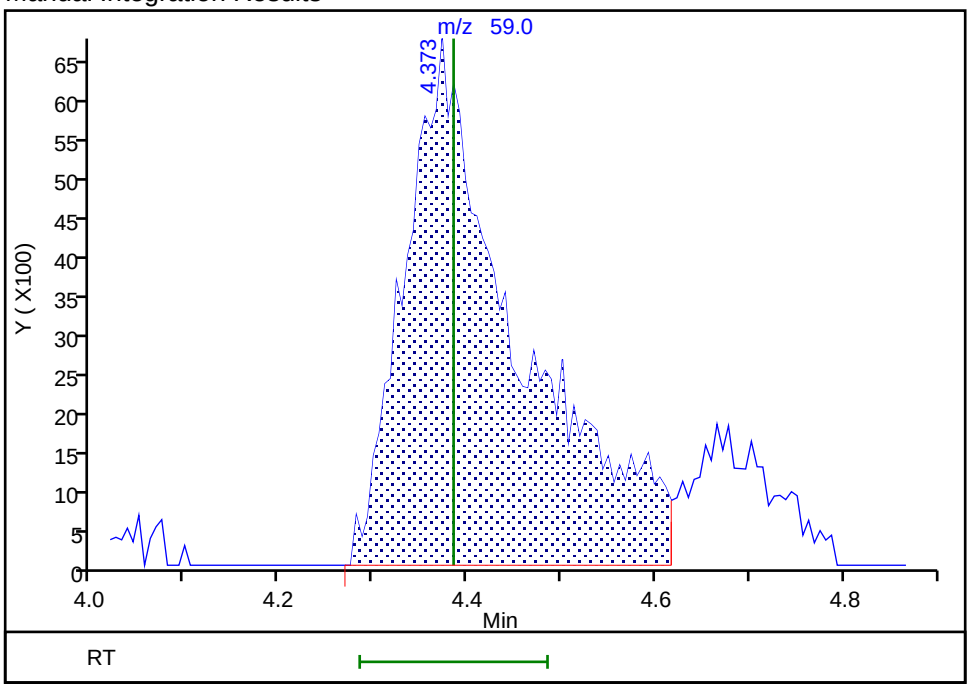
Processing Integration Results

RT: 4.37
Area: 51317
Amount: 18.729362
Amount Units: ug/l



Manual Integration Results

RT: 4.37
Area: 56455
Amount: 19.422146
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:46:18
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I16.D
Lims ID: IC std2 0.5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Jun-2021 20:31:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033290-019
Misc. Info.: IC STD2 0.5
Operator ID: jml01693 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Jul-2021 16:18:43 Calib Date: 30-Jun-2021 20:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: campbellme Date: 01-Jul-2021 00:48:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	2.001	2.007	-0.006	98	32672	0.5000	0.4941	
6 Chloromethane	50	2.202	2.196	0.006	99	42684	0.5000	0.5334	
8 Butadiene	39	2.318	2.312	0.006	93	39212	0.5000	0.5300	
7 Vinyl chloride	62	2.324	2.324	0.000	75	40611	0.5000	0.5023	M
9 Bromomethane	94	2.641	2.635	0.006	91	31357	0.5000	0.5242	
10 Chloroethane	64	2.727	2.721	0.006	100	27515	0.5000	0.5263	
11 Dichlorofluoromethane	67	2.971	2.971	0.000	97	62144	0.5000	0.5157	
13 Trichlorofluoromethane	101	3.038	3.044	-0.006	97	54287	0.5000	0.5103	
15 Ethyl ether	59	3.275	3.282	-0.007	93	24120	0.5000	0.5245	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.367	3.373	-0.006	93	43574	0.5000	0.5132	
17 Acrolein	56	3.458	3.458	0.000	98	179558	25.0	24.1	
18 1,1-Dichloroethene	96	3.605	3.605	0.000	98	32175	0.5000	0.5217	
19 Acetone	43	3.623	3.611	0.012	84	55161	5.00	5.86	M
20 112TCTFE	101	3.641	3.635	0.006	91	32486	0.5000	0.4955	
21 Isopropyl alcohol	45	3.800	3.769	0.031	30	19779	10.0	10.9	M
22 Iodomethane	142	3.806	3.806	0.000	98	56553	0.5000	0.5221	
23 Ethyl bromide	108	3.824	3.824	0.000	98	26977	0.4997	0.5191	
24 Carbon disulfide	76	3.922	3.916	0.006	98	95530	0.5000	0.5154	
26 Methyl acetate	43	4.050	4.056	-0.006	43	17001	0.5000	0.6079	
27 3-Chloro-1-propene	41	4.068	4.080	-0.012	95	56549	0.5000	0.5193	
29 Methylene Chloride	84	4.269	4.263	0.006	97	33585	0.5000	0.5192	
* 28 t-Butyl alcohol-d10 (IS)	65	4.251	4.269	-0.018	89	128101	50.0	50.0	
30 2-Methyl-2-propanol	59	4.391	4.385	0.006	36	33132	10.0	11.3	M
31 Acrylonitrile	53	4.617	4.617	0.000	96	14811	1.25	1.21	M
32 Methyl tert-butyl ether	73	4.678	4.665	0.013	92	77764	0.5000	0.5320	
33 trans-1,2-Dichloroethene	96	4.690	4.696	-0.006	99	35425	0.5000	0.5320	
34 Hexane	57	5.104	5.117	-0.013	93	52878	0.5000	0.4959	
35 1,1-Dichloroethane	63	5.342	5.348	-0.006	95	62520	0.5000	0.5113	
37 Isopropyl ether	45	5.391	5.397	-0.006	95	108639	0.5000	0.5083	
38 2-Chloro-1,3-butadiene	53	5.452	5.458	-0.006	90	51812	0.5000	0.5017	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.933	5.934	-0.001	99	95509	0.5000	0.5141	
41 2-Butanone (MEK)	43	6.141	6.135	0.006	99	75278	5.00	4.78	
S 40 1,2-Dichloroethene, Total	100				0			1.05	
42 cis-1,2-Dichloroethene	96	6.177	6.183	-0.006	83	37869	0.5000	0.5153	
43 2,2-Dichloropropane	77	6.202	6.190	0.012	82	50450	0.5000	0.5055	
45 Propionitrile	54	6.226	6.214	0.012	98	47015	10.0	10.5	M
47 Methacrylonitrile	67	6.439	6.440	-0.001	92	82218	5.00	5.01	
48 Chlorobromomethane	128	6.507	6.507	-0.001	88	15243	0.5000	0.5183	
49 Tetrahydrofuran	71	6.525	6.531	-0.006	82	11168	2.50	2.56	
50 Chloroform	83	6.659	6.659	0.000	93	59078	0.5000	0.5140	
$ 51 Dibromofluoromethane (Surr)	113	6.872	6.872	0.000	93	564931	10.0	10.0	
52 1,1,1-Trichloroethane	97	6.891	6.891	0.000	38	53837	0.5000	0.5100	
53 Cyclohexane	56	6.994	6.994	0.000	89	65783	0.5000	0.4953	
55 1,1-Dichloropropene	75	7.104	7.104	0.000	96	49023	0.5000	0.5046	
56 Carbon tetrachloride	117	7.098	7.110	-0.012	90	45103	0.5000	0.4947	
57 Isobutyl alcohol	41	7.244	7.232	0.012	95	30343	25.0	27.3	M
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.330	7.330	0.000	77	111322	10.0	9.78	
59 Benzene	78	7.366	7.366	0.000	92	142873	0.5000	0.5118	
60 1,2-Dichloroethane	62	7.433	7.439	-0.006	95	35331	0.5000	0.5181	
62 Tert-amyl methyl ether	73	7.555	7.555	0.000	98	84725	0.5000	0.5183	
* 65 Fluorobenzene (IS)	96	7.768	7.769	-0.001	99	2331162	10.0	10.0	
64 n-Heptane	43	7.775	7.781	-0.006	38	60114	0.5000	0.5168	
66 n-Butanol	56	8.128	8.122	0.006	84	43261	43.8	44.5	
67 Trichloroethene	95	8.244	8.250	-0.006	98	36661	0.5000	0.5102	
68 Methylcyclohexane	83	8.567	8.567	0.000	93	67186	0.5000	0.4946	
70 1,2-Dichloropropane	63	8.591	8.585	0.006	73	37045	0.5000	0.5131	
69 2-ethoxy-2-methyl butane	87	8.585	8.592	-0.007	91	45893	0.5000	0.5034	
71 Methyl methacrylate	69	8.665	8.665	0.000	88	15282	0.5000	0.5053	
72 1,4-Dioxane	88	8.677	8.671	0.006	38	4839	25.0	24.4	M
73 Dibromomethane	93	8.695	8.689	0.006	96	15480	0.5000	0.4998	
75 Dichlorobromomethane	83	8.933	8.927	0.006	98	38647	0.5000	0.4787	
76 2-Nitropropane	41	9.189	9.195	-0.006	99	18280	2.50	2.29	
79 1-Bromo-2-chloroethane	63	9.323	9.323	0.000	98	35852	0.5000	0.5110	
80 cis-1,3-Dichloropropene	75	9.469	9.476	-0.007	97	50741	0.5000	0.4856	
81 4-Methyl-2-pentanone (MIBK)	43	9.646	9.640	0.006	97	197694	5.00	5.02	
$ 82 Toluene-d8 (Surr)	98	9.780	9.780	0.000	93	2286008	10.0	9.98	
83 Toluene	92	9.860	9.860	0.000	98	85514	0.5000	0.4893	
S 84 1,3-Dichloropropene, Total	100				0			0.9853	
85 trans-1,3-Dichloropropene	75	10.109	10.110	-0.001	91	40897	0.5000	0.4997	
86 Ethyl methacrylate	69	10.170	10.170	0.000	91	29902	0.5000	0.4777	
87 1,1,2-Trichloroethane	97	10.317	10.317	0.000	88	21410	0.5000	0.4804	
88 Tetrachloroethene	166	10.408	10.408	0.000	96	37787	0.5000	0.4985	
89 1,3-Dichloropropane	76	10.481	10.475	0.006	88	37169	0.5000	0.4799	
91 2-Hexanone	43	10.524	10.524	0.000	97	130621	5.00	4.85	
93 Chlorodibromomethane	129	10.695	10.695	0.000	88	28113	0.5000	0.5079	
94 Ethylene Dibromide	107	10.811	10.805	0.007	100	21493	0.5000	0.5002	
* 97 Chlorobenzene-d5 (IS)	117	11.237	11.237	0.000	86	1704998	10.0	10.0	
96 1-Chlorohexane	91	11.243	11.243	0.000	96	53627	0.5000	0.5050	
S 95 Xylenes, Total	106				0			1.46	
98 Chlorobenzene	112	11.262	11.262	0.000	95	93436	0.5000	0.5043	
100 Ethylbenzene	91	11.347	11.347	0.000	99	165739	0.5000	0.5023	
99 1,1,1,2-Tetrachloroethane	131	11.341	11.347	-0.006	96	32120	0.5000	0.5078	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 m-Xylene & p-Xylene	106	11.463	11.463	0.000	99	122857	1.00	0.9742	
102 o-Xylene	106	11.792	11.792	0.000	97	61149	0.5000	0.4897	
103 Styrene	104	11.804	11.804	0.000	94	97020	0.5000	0.4853	
104 Bromoform	173	11.963	11.963	0.000	96	14848	0.5000	0.4853	
105 Isopropylbenzene	105	12.091	12.091	0.000	96	156666	0.5000	0.4864	
$ 108 4-Bromofluorobenzene (Surr)	95	12.237	12.237	0.000	90	830728	10.0	9.94	
109 1,1,2,2-Tetrachloroethane	83	12.335	12.335	0.000	92	28190	0.5000	0.5202	
111 Bromobenzene	156	12.353	12.353	0.000	93	34134	0.5000	0.4964	
110 trans-1,4-Dichloro-2-butene	53	12.359	12.359	0.000	91	65285	5.00	4.72	
112 1,2,3-Trichloropropane	110	12.377	12.383	-0.006	80	7472	0.5000	0.5399	
113 N-Propylbenzene	91	12.420	12.420	0.000	99	186344	0.5000	0.4917	
114 2-Chlorotoluene	126	12.493	12.493	0.000	97	37963	0.5000	0.5124	
115 1,3,5-Trimethylbenzene	105	12.554	12.554	0.000	94	132249	0.5000	0.4987	
116 4-Chlorotoluene	126	12.591	12.585	0.006	96	37390	0.5000	0.5001	
118 tert-Butylbenzene	134	12.792	12.798	-0.006	93	29494	0.5000	0.5110	
119 Pentachloroethane	167	12.828	12.829	0.000	87	21378	0.5000	0.4992	
120 1,2,4-Trimethylbenzene	105	12.835	12.835	0.000	97	134140	0.5000	0.4958	
121 sec-Butylbenzene	105	12.956	12.957	-0.001	94	161149	0.5000	0.4810	
122 1,3-Dichlorobenzene	146	13.060	13.060	0.000	97	72016	0.5000	0.5081	
123 4-Isopropyltoluene	119	13.066	13.066	0.000	98	137118	0.5000	0.4839	
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	95	894470	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.133	13.133	0.000	94	67950	0.5000	0.4864	
126 1,2,3-Trimethylbenzene	120	13.139	13.139	0.000	96	60830	0.5000	0.5054	
127 Benzyl chloride	126	13.206	13.206	0.000	98	11097	0.5000	0.4994	
130 n-Butylbenzene	92	13.359	13.359	0.000	98	67602	0.5000	0.4737	
131 1,2-Dichlorobenzene	146	13.395	13.395	0.000	96	64617	0.5000	0.5030	
129 p-Diethylbenzene	119	13.408	13.408	0.000	87	70008	0.5000	0.4880	
134 1,2-Dibromo-3-Chloropropane	155	13.938	13.932	0.006	82	3696	0.5000	0.4743	
135 1,3,5-Trichlorobenzene	180	14.060	14.060	0.000	97	51129	0.5000	0.4996	
136 1,2,4-Trichlorobenzene	180	14.487	14.481	0.006	93	41586	0.5000	0.4799	
137 Hexachlorobutadiene	225	14.566	14.566	0.000	95	19579	0.5000	0.4931	
138 Naphthalene	128	14.670	14.664	0.006	97	83563	0.5000	0.4995	
139 1,2,3-Trichlorobenzene	180	14.810	14.810	0.000	95	36773	0.5000	0.4889	
140 2-Methylnaphthalene	142	15.444	15.444	0.000	94	47725	0.5000	0.4922	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00006	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00007	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00010	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00001	Amount Added:	5.00	Units: uL	Run Reagent

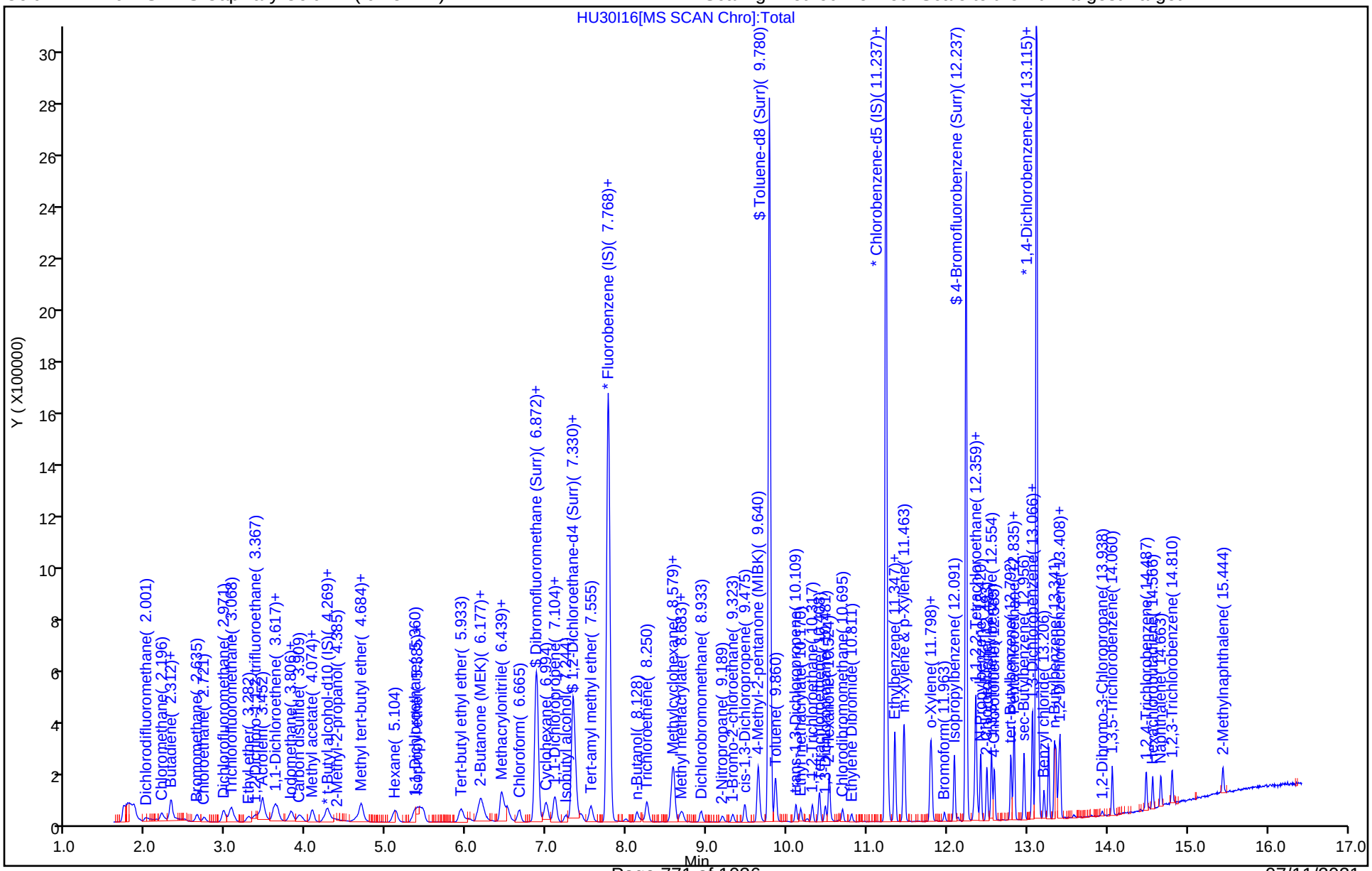
Report Date: 01-Jul-2021 16:18:44 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I16.D

Injection Date:	30-Jun-2021 20:31:30	Instrument ID:	19094	Operator ID:	jml01693
Lims ID:	IC std2 0.5			Worklist Smp#:	19
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

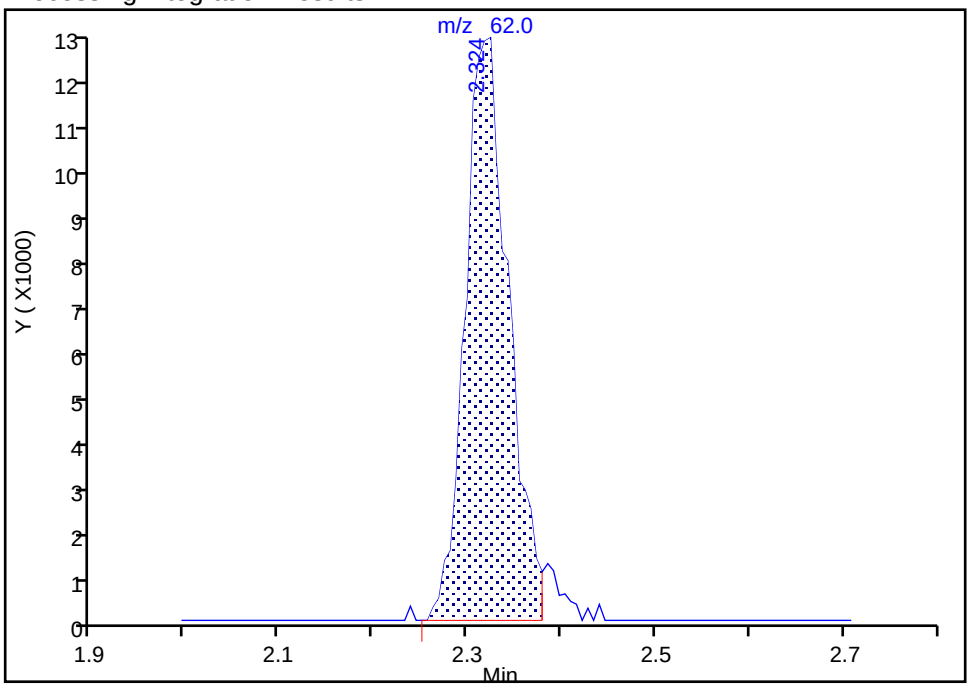
Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I16.D
Injection Date: 30-Jun-2021 20:31:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: jml01693 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

7 Vinyl chloride, CAS: 75-01-4

Signal: 1

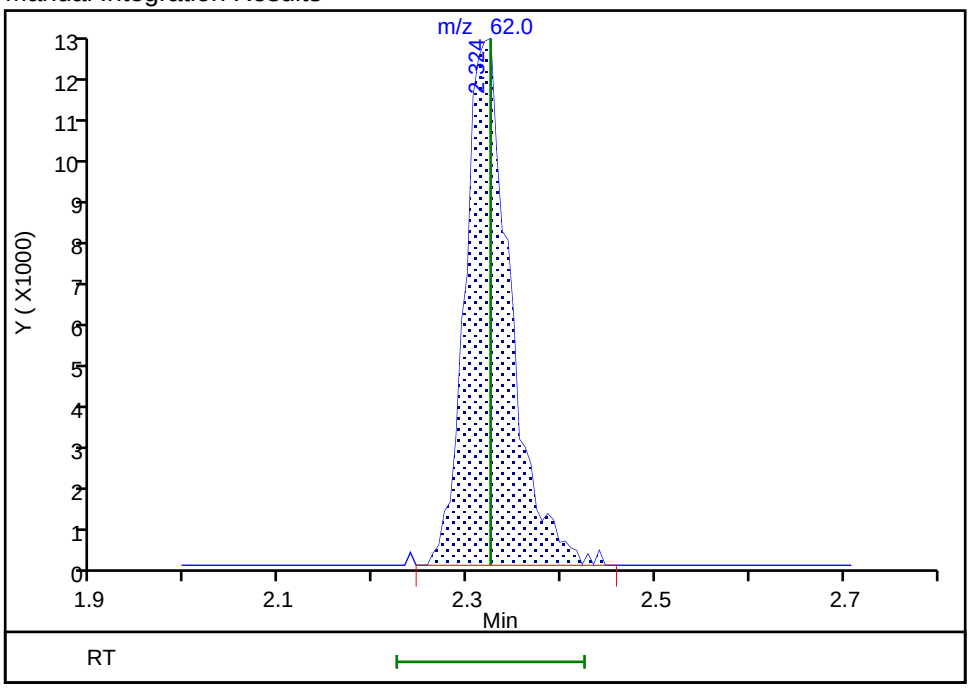
Processing Integration Results

RT: 2.32
Area: 38923
Amount: 0.487268
Amount Units: ug/l



Manual Integration Results

RT: 2.32
Area: 40611
Amount: 0.502330
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:47:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

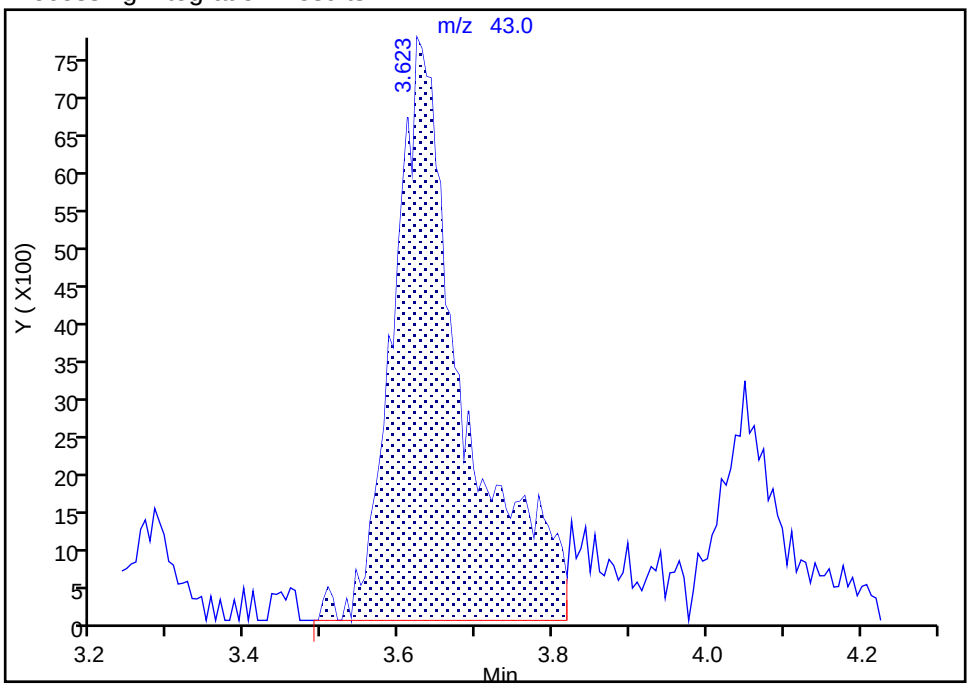
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I16.D				
Injection Date:	30-Jun-2021 20:31:30	Instrument ID:	19094		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

19 Acetone, CAS: 67-64-1

Signal: 1

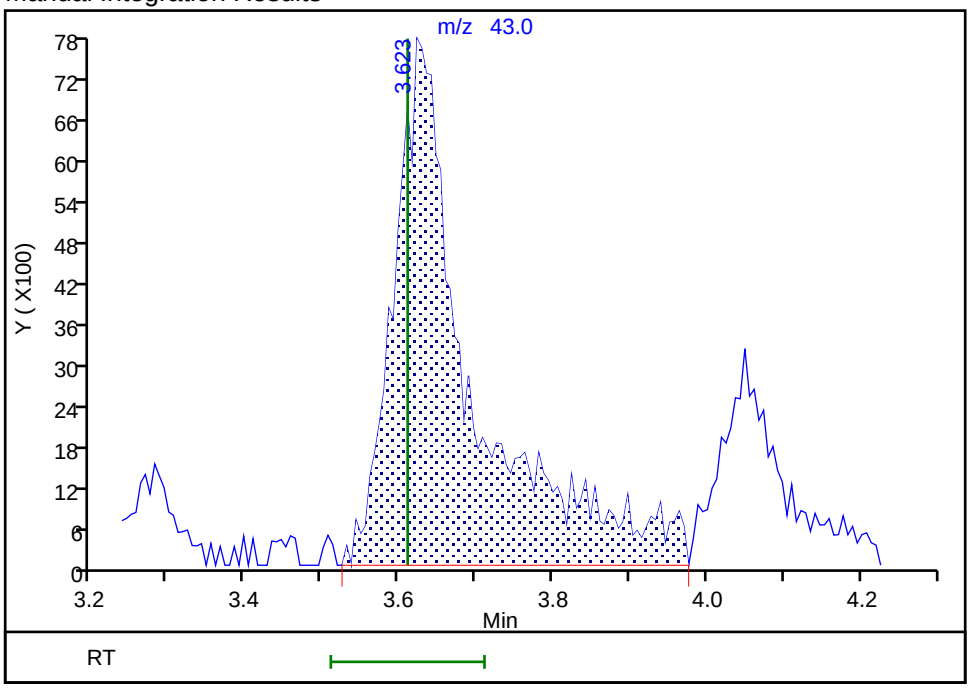
Processing Integration Results

RT: 3.62
Area: 48850
Amount: 5.393808
Amount Units: ug/l



Manual Integration Results

RT: 3.62
Area: 55161
Amount: 5.864814
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:47:13

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

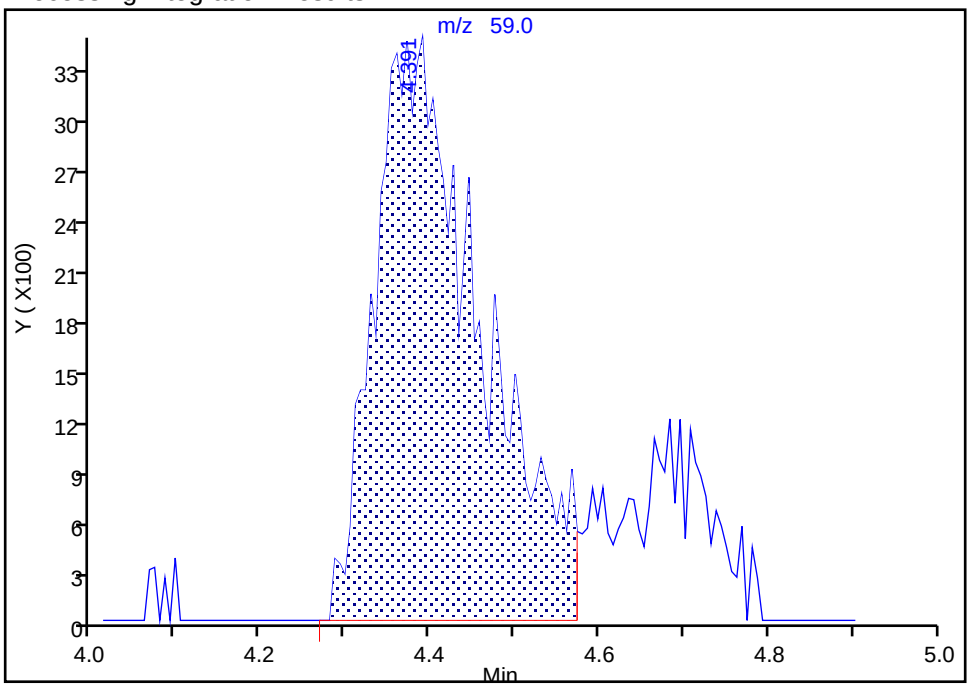
Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I16.D
Injection Date: 30-Jun-2021 20:31:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: jml01693 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

30 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

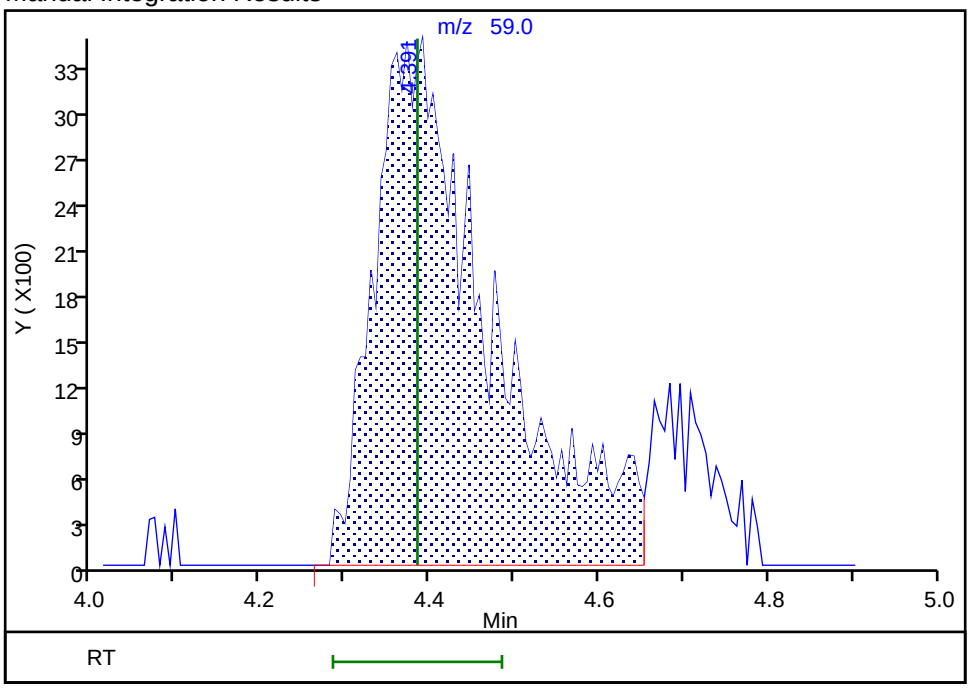
Processing Integration Results

RT: 4.39
Area: 30272
Amount: 10.824070
Amount Units: ug/l



Manual Integration Results

RT: 4.39
Area: 33132
Amount: 11.316412
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:47:33
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

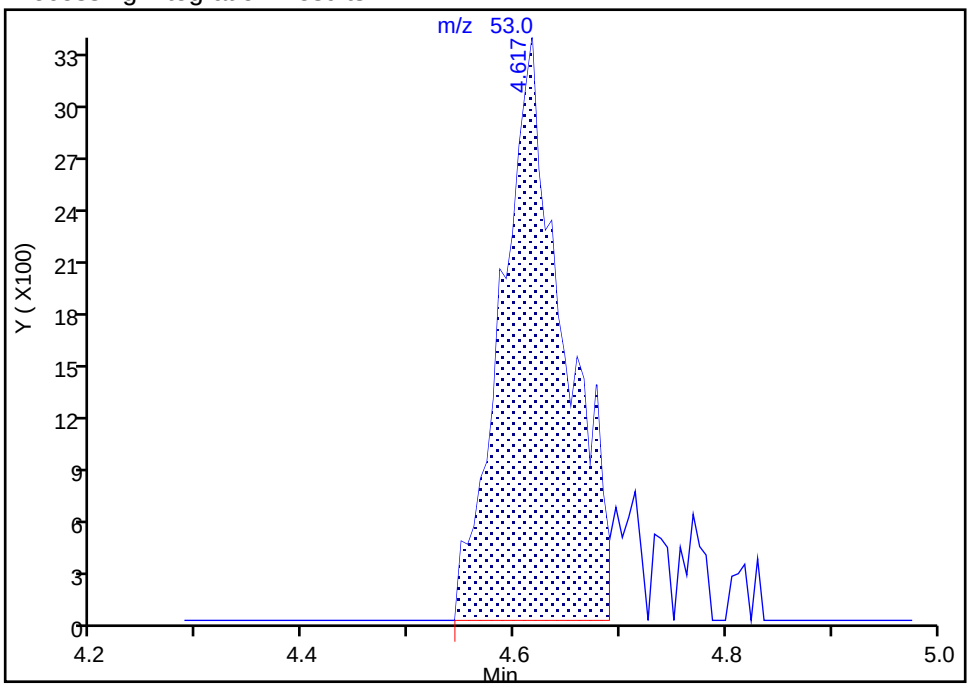
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I16.D				
Injection Date:	30-Jun-2021 20:31:30	Instrument ID:	19094		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

31 Acrylonitrile, CAS: 107-13-1

Signal: 1

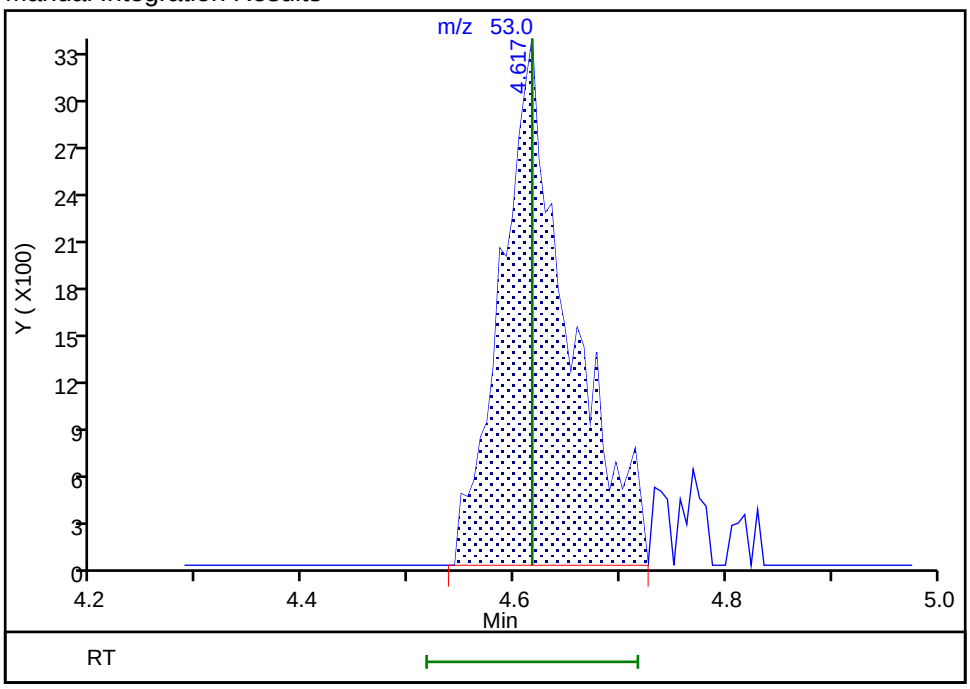
Processing Integration Results

RT: 4.62
Area: 13772
Amount: 1.171316
Amount Units: ug/l



Manual Integration Results

RT: 4.62
Area: 14811
Amount: 1.206664
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:47:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

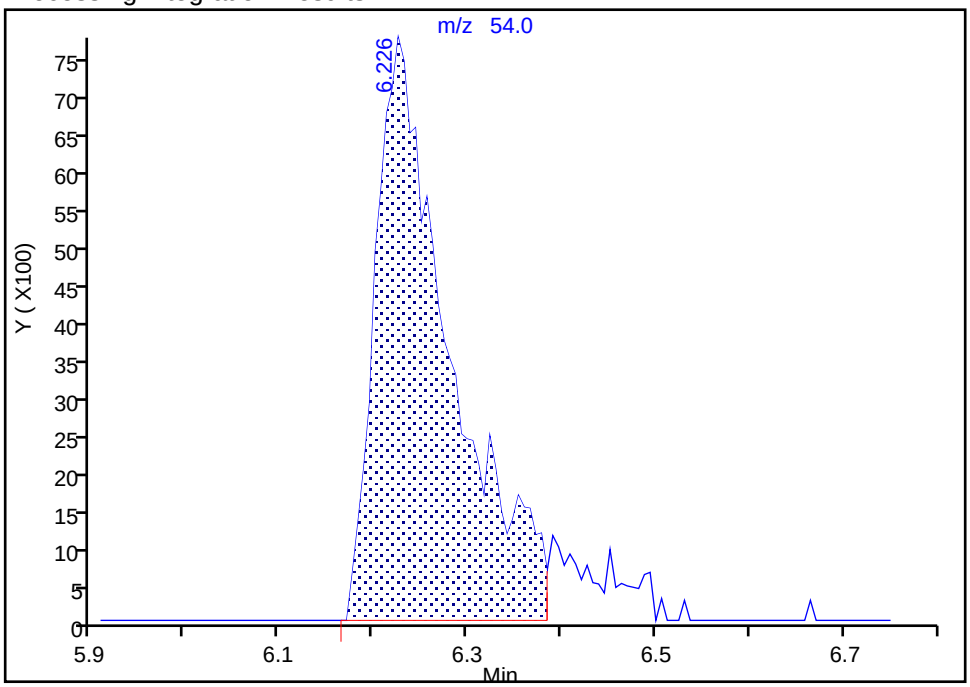
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I16.D				
Injection Date:	30-Jun-2021 20:31:30	Instrument ID:	19094		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

45 Propionitrile, CAS: 107-12-0

Signal: 1

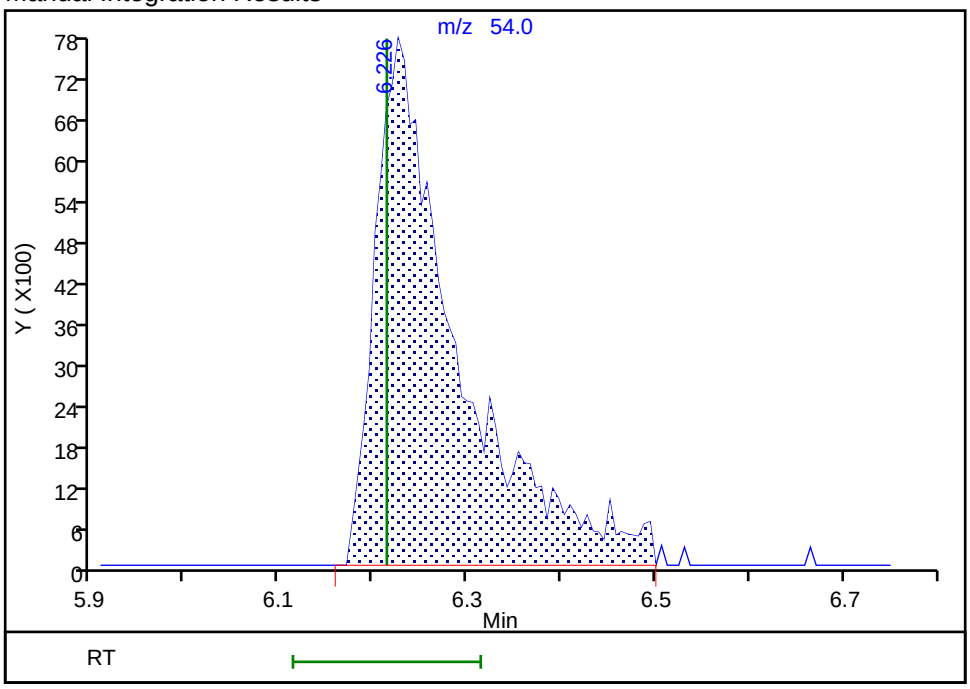
Processing Integration Results

RT: 6.23
Area: 42797
Amount: 9.967020
Amount Units: ug/l



Manual Integration Results

RT: 6.23
Area: 47015
Amount: 10.536776
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:47:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

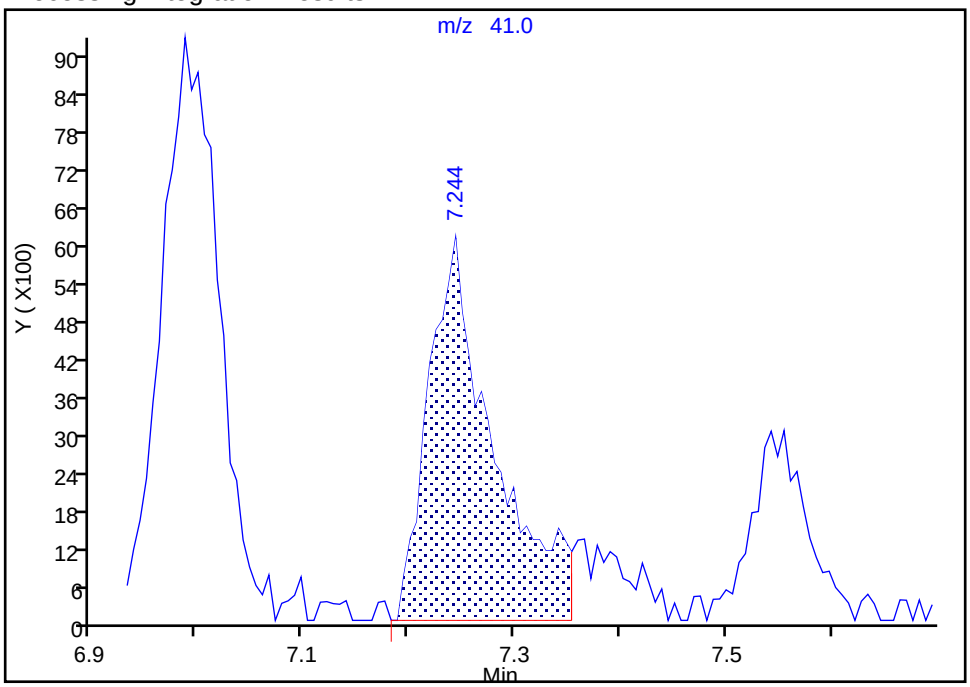
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I16.D				
Injection Date:	30-Jun-2021 20:31:30	Instrument ID:	19094		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

57 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

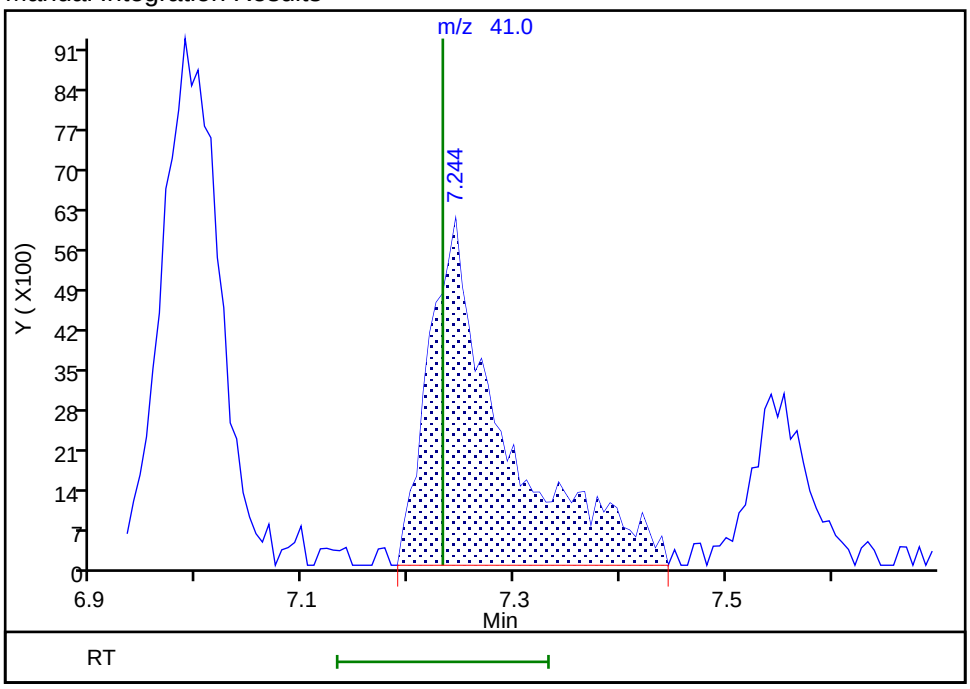
Processing Integration Results

RT: 7.24
Area: 26117
Amount: 24.033827
Amount Units: ug/l



Manual Integration Results

RT: 7.24
Area: 30343
Amount: 27.315727
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:48:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

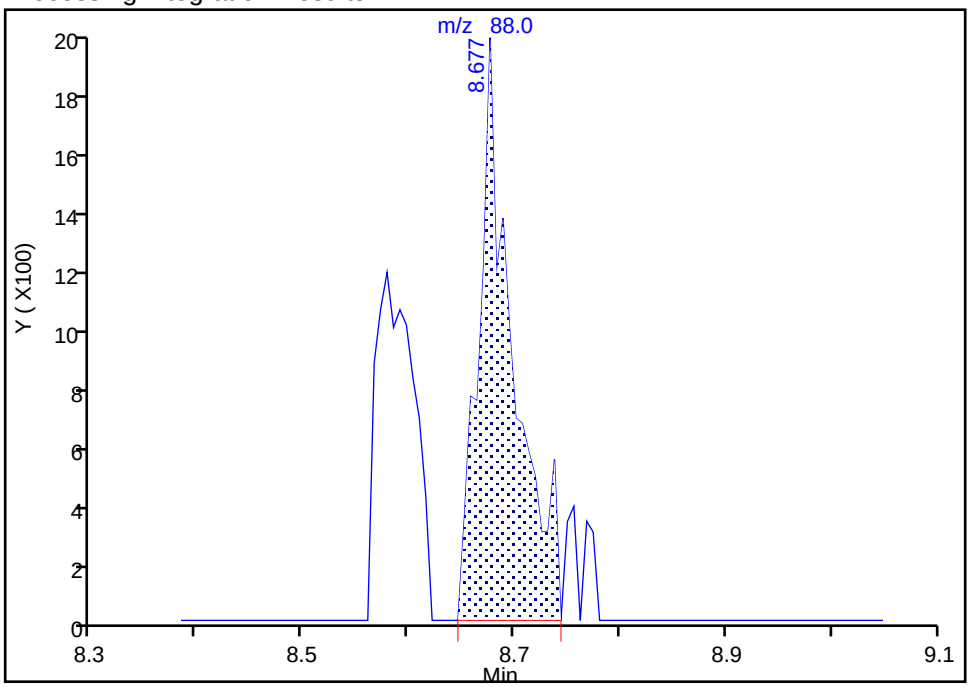
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I16.D				
Injection Date:	30-Jun-2021 20:31:30	Instrument ID:	19094		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

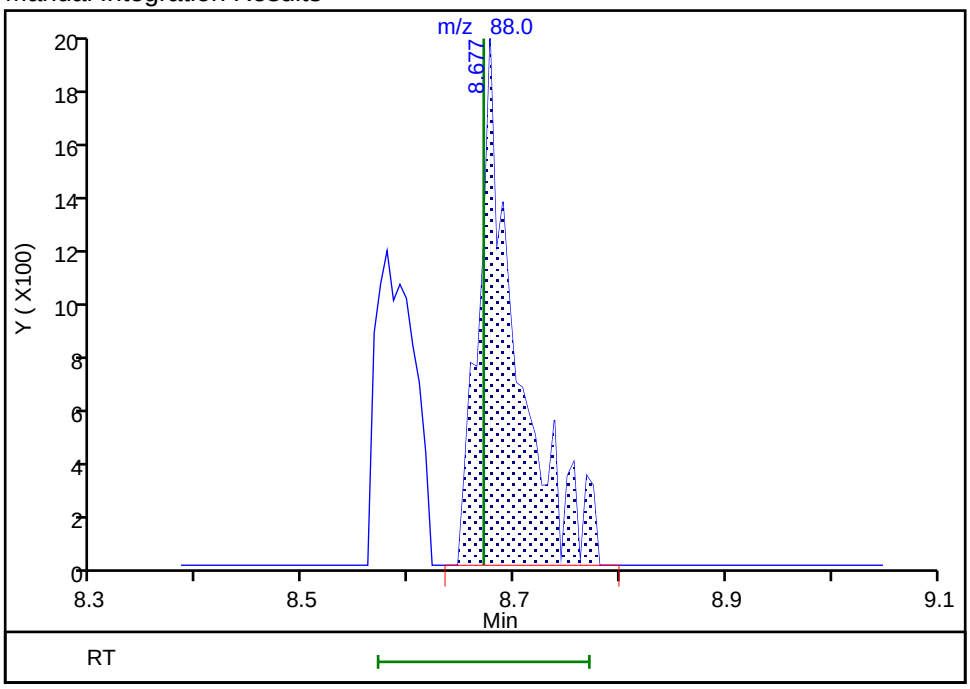
Processing Integration Results

RT: 8.68
Area: 4351
Amount: 22.823846
Amount Units: ug/l



Manual Integration Results

RT: 8.68
Area: 4839
Amount: 24.444619
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:48:08

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D
Lims ID: IC std1 0.2
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Jun-2021 20:52:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033290-020
Misc. Info.: IC STD1 0.2
Operator ID: jml01693 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Jul-2021 16:18:51 Calib Date: 30-Jun-2021 20:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: campbellme Date: 01-Jul-2021 00:51:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	2.014	2.007	0.007	96	13019	0.2000	0.1974	M
6 Chloromethane	50	2.197	2.196	0.000	96	16089	0.2000	0.2016	M
8 Butadiene	39	2.312	2.312	0.000	95	13736	0.2000	0.1862	
7 Vinyl chloride	62	2.318	2.324	-0.006	88	16206	0.2000	0.2010	M
9 Bromomethane	94	2.654	2.635	0.019	90	12123	0.2000	0.2032	
10 Chloroethane	64	2.739	2.721	0.018	42	10530	0.2000	0.2020	
11 Dichlorofluoromethane	67	2.989	2.971	0.018	97	24134	0.2000	0.2009	
13 Trichlorofluoromethane	101	3.050	3.044	0.006	95	20361	0.2000	0.1919	
15 Ethyl ether	59	3.288	3.282	0.006	76	8587	0.2000	0.1873	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.373	3.373	0.000	87	17132	0.2000	0.2024	
17 Acrolein	56	3.458	3.458	0.000	99	72018	10.0	9.82	M
18 1,1-Dichloroethene	96	3.605	3.605	0.000	96	13087	0.2000	0.2128	
19 Acetone	43	3.629	3.611	0.018	99	22738	2.00	2.45	
20 112TCTFE	101	3.654	3.635	0.019	83	12587	0.2000	0.1925	
21 Isopropyl alcohol	45	3.782	3.769	0.013	51	7089	4.00	3.91	M
22 Iodomethane	142	3.800	3.806	-0.006	98	21648	0.2000	0.2004	
23 Ethyl bromide	108	3.830	3.824	0.006	87	10494	0.1999	0.2025	
24 Carbon disulfide	76	3.928	3.916	0.012	99	38392	0.2000	0.2077	M
26 Methyl acetate	43	4.092	4.056	0.036	28	6459	0.2000	0.2342	
27 3-Chloro-1-propene	41	4.080	4.080	0.000	93	22835	0.2000	0.2103	
29 Methylene Chloride	84	4.269	4.263	0.006	92	13248	0.2000	0.2054	
* 28 t-Butyl alcohol-d10 (IS)	65	4.257	4.269	-0.012	95	126301	50.0	50.0	
30 2-Methyl-2-propanol	59	4.385	4.385	0.000	18	11543	4.00	4.00	M
31 Acrylonitrile	53	4.641	4.617	0.024	26	5825	0.5000	0.4813	M
32 Methyl tert-butyl ether	73	4.666	4.665	0.001	96	29252	0.2000	0.2007	
33 trans-1,2-Dichloroethene	96	4.696	4.696	0.000	95	13853	0.2000	0.2086	
34 Hexane	57	5.111	5.117	-0.006	86	20277	0.2000	0.1907	
35 1,1-Dichloroethane	63	5.342	5.348	-0.006	94	23907	0.2000	0.1961	
37 Isopropyl ether	45	5.409	5.397	0.012	95	41506	0.2000	0.1948	
38 2-Chloro-1,3-butadiene	53	5.458	5.458	0.000	90	20370	0.2000	0.1978	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.940	5.934	0.006	97	37475	0.2000	0.2023	
41 2-Butanone (MEK)	43	6.147	6.135	0.012	92	30439	2.00	1.96	
S 40 1,2-Dichloroethene, Total	100				0			0.4279	
42 cis-1,2-Dichloroethene	96	6.177	6.183	-0.006	81	16068	0.2000	0.2193	
43 2,2-Dichloropropane	77	6.208	6.190	0.018	62	20763	0.2000	0.2086	
45 Propionitrile	54	6.238	6.214	0.024	33	17193	4.00	3.91	M
47 Methacrylonitrile	67	6.440	6.440	0.000	90	30460	2.00	1.88	
48 Chlorobromomethane	128	6.501	6.507	-0.006	91	5780	0.2000	0.1971	
49 Tetrahydrofuran	71	6.531	6.531	0.000	66	4078	1.00	0.9481	
50 Chloroform	83	6.659	6.659	0.000	91	22713	0.2000	0.1982	
$ 51 Dibromofluoromethane (Surr)	113	6.879	6.872	0.007	94	561388	10.0	9.98	
52 1,1,1-Trichloroethane	97	6.903	6.891	0.012	96	22220	0.2000	0.2111	
53 Cyclohexane	56	6.994	6.994	0.000	92	25749	0.2000	0.1944	
55 1,1-Dichloropropene	75	7.104	7.104	0.000	94	19511	0.2000	0.2014	
56 Carbon tetrachloride	117	7.104	7.110	-0.006	90	18800	0.2000	0.2068	
57 Isobutyl alcohol	41	7.244	7.232	0.012	92	12626	10.0	11.5	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.336	7.330	0.006	80	113679	10.0	10.0	
59 Benzene	78	7.372	7.366	0.006	94	57437	0.2000	0.2064	
60 1,2-Dichloroethane	62	7.433	7.439	-0.006	93	15168	0.2000	0.2231	
62 Tert-amyl methyl ether	73	7.555	7.555	0.000	98	32655	0.2000	0.2004	
* 65 Fluorobenzene (IS)	96	7.769	7.769	0.000	99	2324361	10.0	10.0	
64 n-Heptane	43	7.787	7.781	0.006	36	23273	0.2000	0.2007	
66 n-Butanol	56	8.140	8.122	0.018	87	16666	17.5	17.4	
67 Trichloroethene	95	8.256	8.250	0.006	97	13869	0.2000	0.1936	
68 Methylcyclohexane	83	8.561	8.567	-0.006	86	26913	0.2000	0.1987	
70 1,2-Dichloropropane	63	8.586	8.585	0.001	75	14017	0.2000	0.1947	
69 2-ethoxy-2-methyl butane	87	8.592	8.592	0.000	89	18238	0.2000	0.2006	
71 Methyl methacrylate	69	8.677	8.665	0.012	71	5360	0.2000	0.1797	
72 1,4-Dioxane	88	8.671	8.671	0.000	38	1646	10.0	8.43	M
73 Dibromomethane	93	8.707	8.689	0.018	96	6025	0.2000	0.1951	
75 Dichlorobromomethane	83	8.927	8.927	0.000	97	16067	0.2000	0.1996	
76 2-Nitropropane	41	9.201	9.195	0.006	95	8525	1.00	1.08	M
79 1-Bromo-2-chloroethane	63	9.323	9.323	0.000	95	13596	0.2000	0.1943	
80 cis-1,3-Dichloropropene	75	9.482	9.476	0.006	96	19856	0.2000	0.1906	
81 4-Methyl-2-pentanone (MIBK)	43	9.640	9.640	0.000	96	69516	2.00	1.79	
$ 82 Toluene-d8 (Surr)	98	9.780	9.780	0.000	93	2301167	10.0	10.0	
83 Toluene	92	9.866	9.860	0.006	98	36703	0.2000	0.2095	
S 84 1,3-Dichloropropene, Total	100				0			0.3762	
85 trans-1,3-Dichloropropene	75	10.110	10.110	0.000	92	15224	0.2000	0.1856	
86 Ethyl methacrylate	69	10.177	10.170	0.007	89	11206	0.2000	0.1786	
87 1,1,2-Trichloroethane	97	10.323	10.317	0.006	88	8711	0.2000	0.1950	
88 Tetrachloroethene	166	10.408	10.408	0.000	97	15278	0.2000	0.2011	
89 1,3-Dichloropropane	76	10.481	10.475	0.006	89	14747	0.2000	0.1900	
91 2-Hexanone	43	10.530	10.524	0.006	95	49039	2.00	1.85	
93 Chlorodibromomethane	129	10.695	10.695	0.000	88	10673	0.2000	0.1924	
94 Ethylene Dibromide	107	10.805	10.805	0.001	93	8799	0.2000	0.2043	
* 97 Chlorobenzene-d5 (IS)	117	11.237	11.237	0.000	86	1708734	10.0	10.0	
96 1-Chlorohexane	91	11.244	11.243	0.001	40	23155	0.2000	0.2176	
S 95 Xylenes, Total	106				0			0.5824	
98 Chlorobenzene	112	11.262	11.262	0.000	97	37034	0.2000	0.1994	
100 Ethylbenzene	91	11.347	11.347	0.000	98	65435	0.2000	0.1979	
99 1,1,1,2-Tetrachloroethane	131	11.341	11.347	-0.006	43	12469	0.2000	0.1967	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 m-Xylene & p-Xylene	106	11.463	11.463	0.000	98	48715	0.4000	0.3855	
102 o-Xylene	106	11.792	11.792	0.000	96	24649	0.2000	0.1970	
103 Styrene	104	11.810	11.804	0.006	95	38473	0.2000	0.1920	
104 Bromoform	173	11.963	11.963	0.000	94	5750	0.2000	0.1875	
105 Isopropylbenzene	105	12.091	12.091	0.000	95	61669	0.2000	0.1910	
$ 108 4-Bromofluorobenzene (Surr)	95	12.237	12.237	0.000	89	834134	10.0	9.96	
109 1,1,2,2-Tetrachloroethane	83	12.329	12.335	-0.006	92	11094	0.2000	0.2015	
111 Bromobenzene	156	12.353	12.353	0.000	79	13130	0.2000	0.1879	
110 trans-1,4-Dichloro-2-butene	53	12.359	12.359	0.000	92	24285	2.00	1.78	
112 1,2,3-Trichloropropane	110	12.377	12.383	-0.006	73	2529	0.2000	0.1799	
113 N-Propylbenzene	91	12.420	12.420	0.000	99	73743	0.2000	0.1915	
114 2-Chlorotoluene	126	12.499	12.493	0.006	96	14222	0.2000	0.1889	
115 1,3,5-Trimethylbenzene	105	12.554	12.554	0.000	94	51335	0.2000	0.1905	
116 4-Chlorotoluene	126	12.591	12.585	0.006	97	14139	0.2000	0.1861	
118 tert-Butylbenzene	134	12.798	12.798	0.000	92	12110	0.2000	0.2065	
119 Pentachloroethane	167	12.829	12.829	0.001	82	8269	0.2000	0.1900	
120 1,2,4-Trimethylbenzene	105	12.835	12.835	0.000	96	52202	0.2000	0.1899	
121 sec-Butylbenzene	105	12.957	12.957	0.000	94	64290	0.2000	0.1889	
122 1,3-Dichlorobenzene	146	13.060	13.060	0.000	95	27515	0.2000	0.1911	
123 4-Isopropyltoluene	119	13.066	13.066	0.000	97	54331	0.2000	0.1887	
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	95	908776	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.133	13.133	0.000	94	27528	0.2000	0.1939	
126 1,2,3-Trimethylbenzene	120	13.146	13.139	0.007	97	24446	0.2000	0.1999	
127 Benzyl chloride	126	13.213	13.206	0.007	98	4072	0.2000	0.1804	
130 n-Butylbenzene	92	13.359	13.359	0.000	97	27167	0.2000	0.1874	
131 1,2-Dichlorobenzene	146	13.396	13.395	0.001	97	24933	0.2000	0.1910	
129 p-Diethylbenzene	119	13.408	13.408	0.000	87	28310	0.2000	0.1942	
134 1,2-Dibromo-3-Chloropropane	155	13.932	13.932	0.000	74	1614	0.2000	0.2039	
135 1,3,5-Trichlorobenzene	180	14.060	14.060	0.000	96	19533	0.2000	0.1879	
136 1,2,4-Trichlorobenzene	180	14.487	14.481	0.006	94	16520	0.2000	0.1876	
137 Hexachlorobutadiene	225	14.566	14.566	0.000	94	9966	0.2000	0.2470	
138 Naphthalene	128	14.664	14.664	0.000	96	30662	0.2000	0.1804	
139 1,2,3-Trichlorobenzene	180	14.810	14.810	0.000	95	15043	0.2000	0.1968	
140 2-Methylnaphthalene	142	15.444	15.444	0.000	94	18077	0.2000	0.1835	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00006	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00007	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00010	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00001	Amount Added:	5.00	Units: uL	Run Reagent

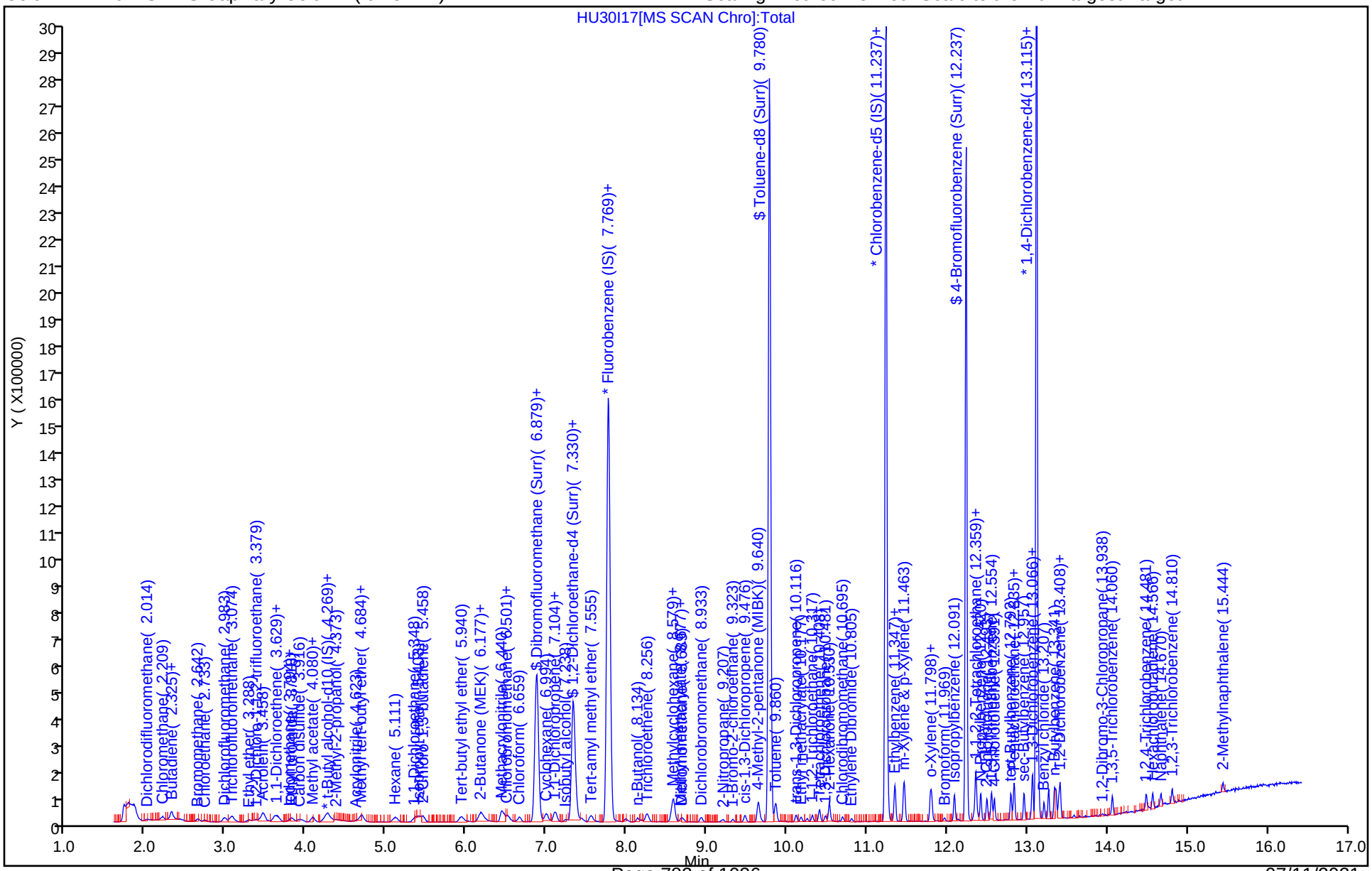
Report Date: 01-Jul-2021 16:18:52 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D

Injection Date:	30-Jun-2021 20:52:30	Instrument ID:	19094	Operator ID:	jml01693
Lims ID:	IC std1 0.2			Worklist Smp#:	20
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

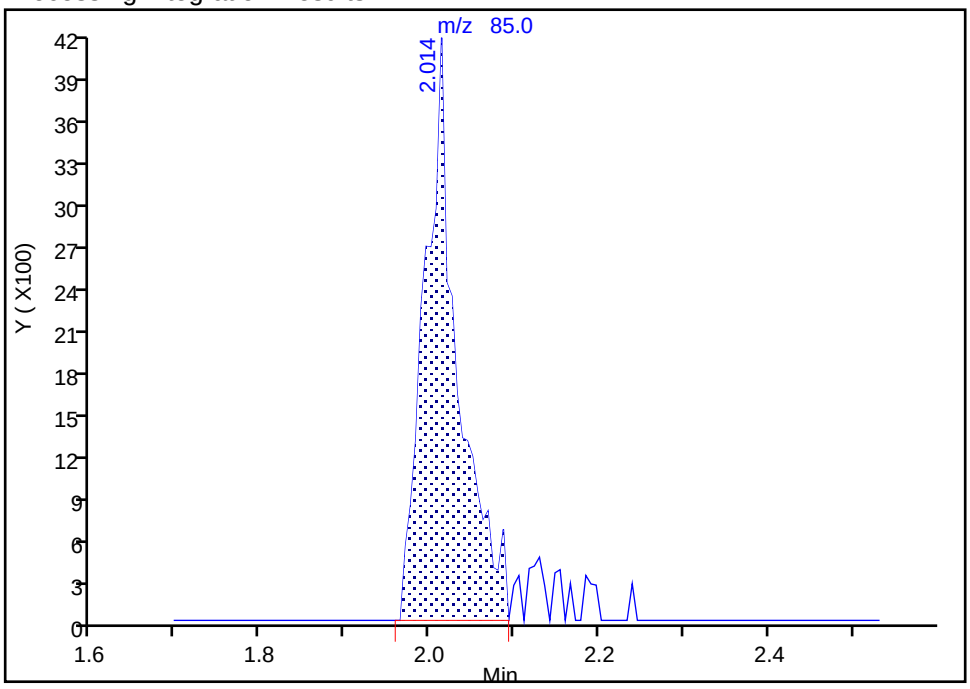
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D				
Injection Date:	30-Jun-2021 20:52:30	Instrument ID:	19094		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

3 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

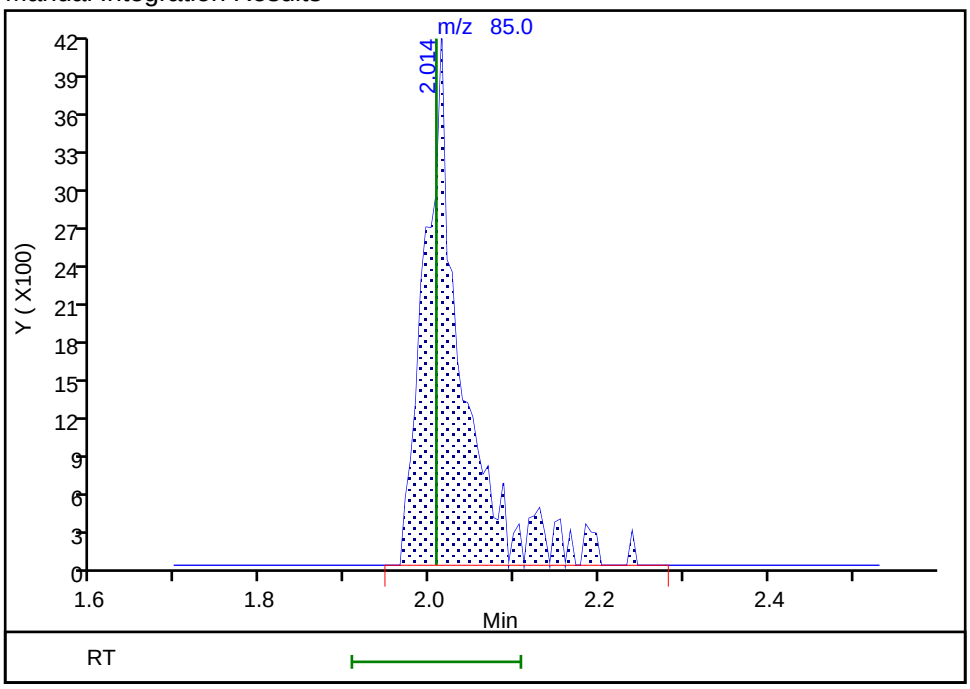
Processing Integration Results

RT: 2.01
Area: 11513
Amount: 0.177500
Amount Units: ug/l



Manual Integration Results

RT: 2.01
Area: 13019
Amount: 0.197444
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:48:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

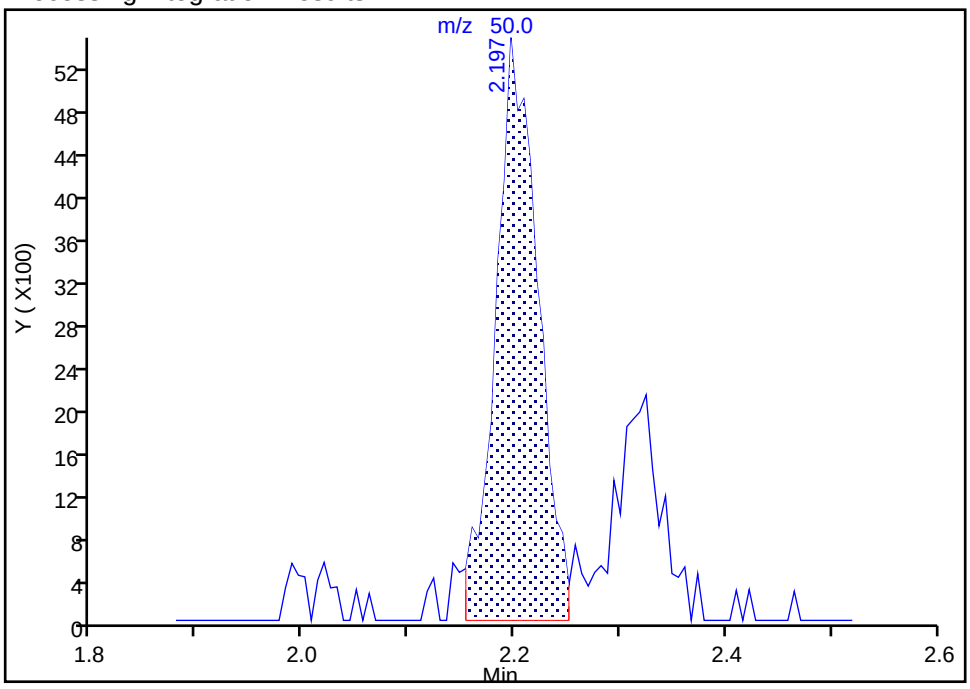
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D				
Injection Date:	30-Jun-2021 20:52:30	Instrument ID:	19094		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

6 Chloromethane, CAS: 74-87-3

Signal: 1

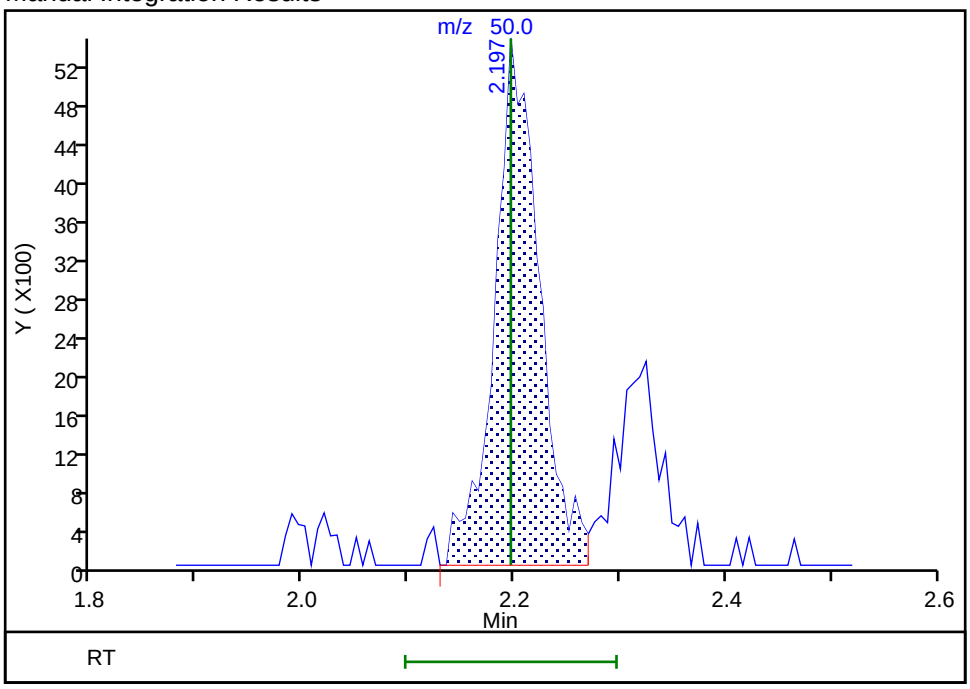
Processing Integration Results

RT: 2.20
Area: 15194
Amount: 0.191951
Amount Units: ug/l



Manual Integration Results

RT: 2.20
Area: 16089
Amount: 0.201629
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:48:48

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

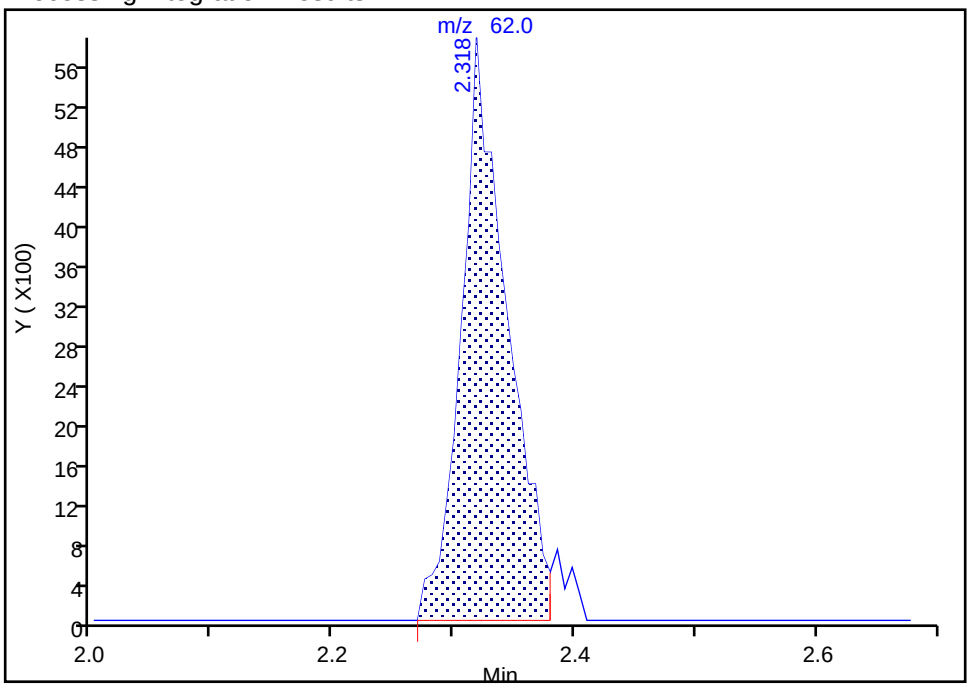
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D				
Injection Date:	30-Jun-2021 20:52:30	Instrument ID:	19094		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

7 Vinyl chloride, CAS: 75-01-4

Signal: 1

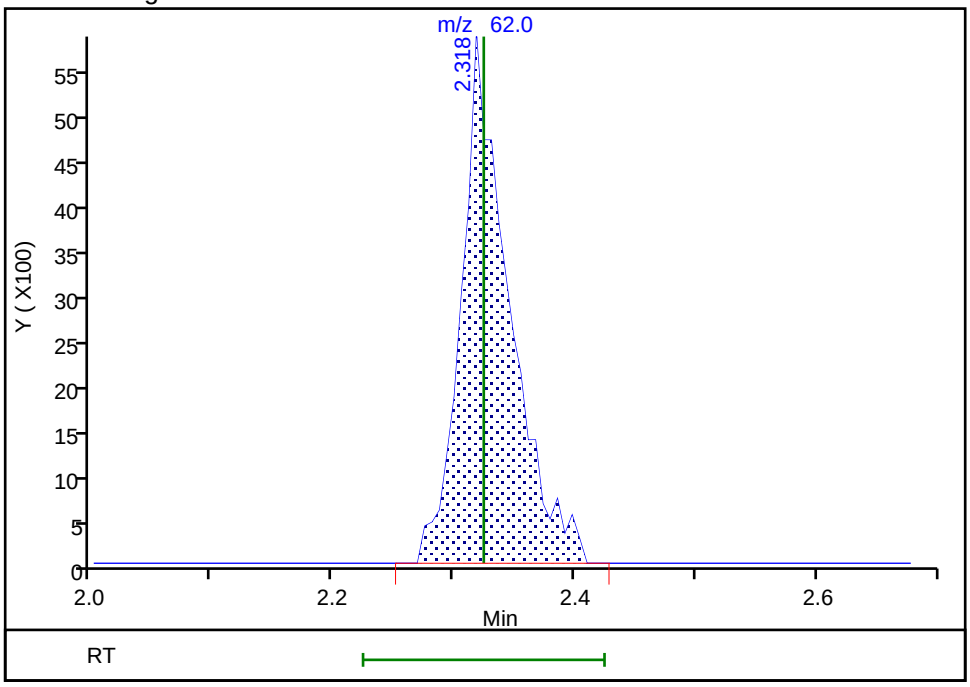
Processing Integration Results

RT: 2.32
Area: 15532
Amount: 0.193840
Amount Units: ug/l



Manual Integration Results

RT: 2.32
Area: 16206
Amount: 0.201044
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:48:55

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

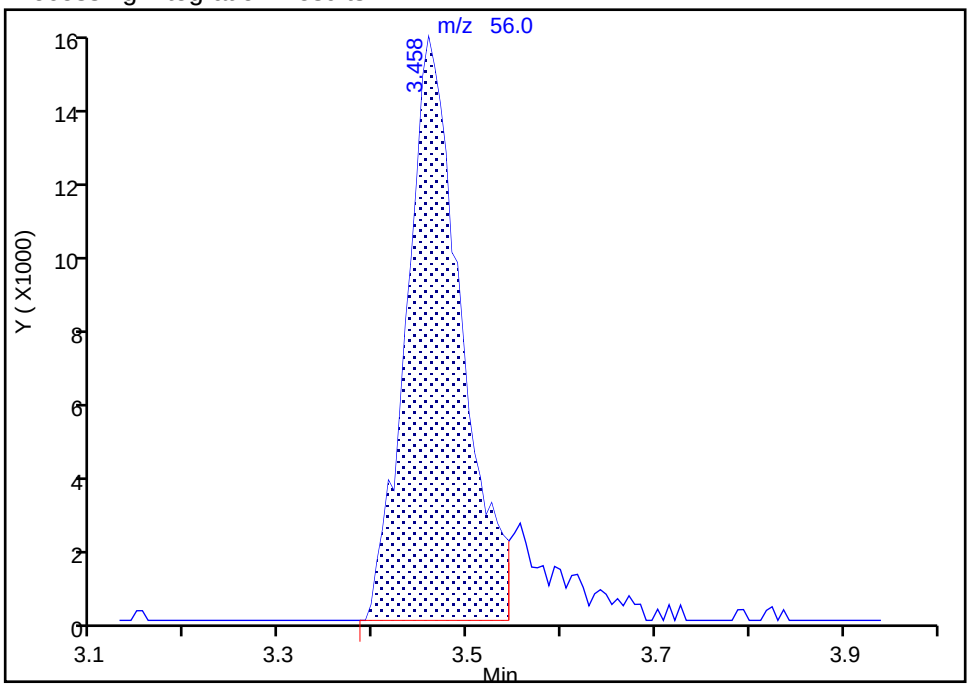
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D				
Injection Date:	30-Jun-2021 20:52:30	Instrument ID:	19094		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

17 Acrolein, CAS: 107-02-8

Signal: 1

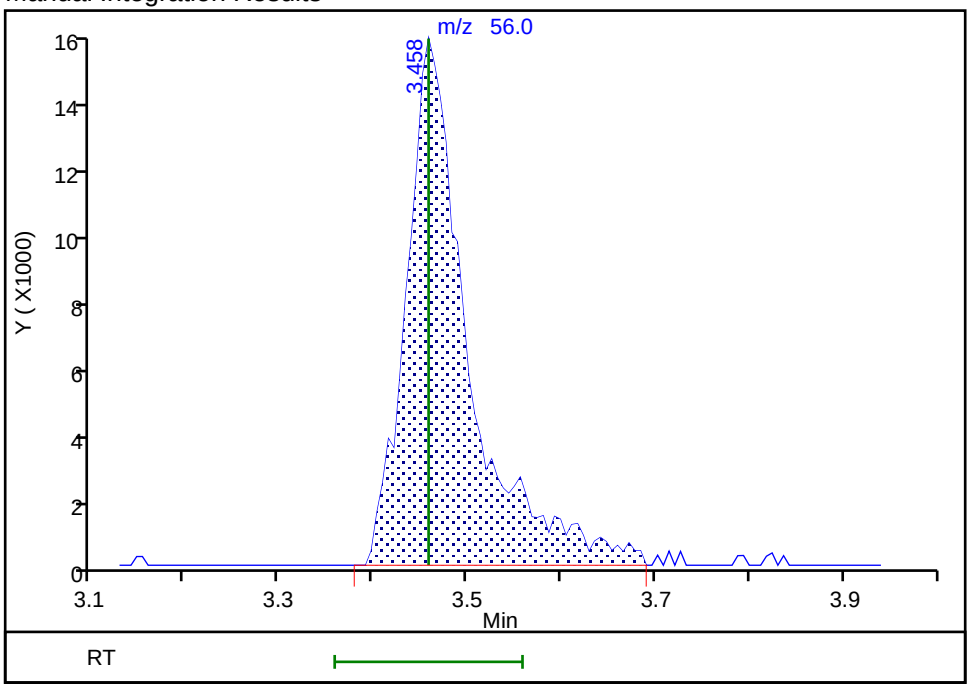
Processing Integration Results

RT: 3.46
Area: 62962
Amount: 8.740658
Amount Units: ug/l



Manual Integration Results

RT: 3.46
Area: 72018
Amount: 9.821460
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:49:02

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

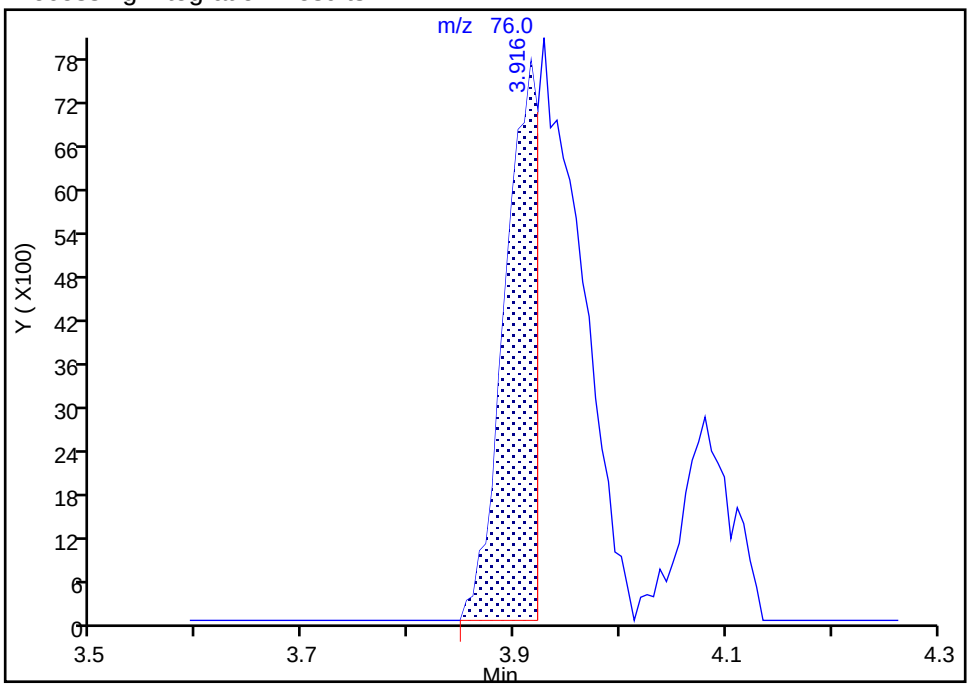
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D				
Injection Date:	30-Jun-2021 20:52:30	Instrument ID:	19094		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

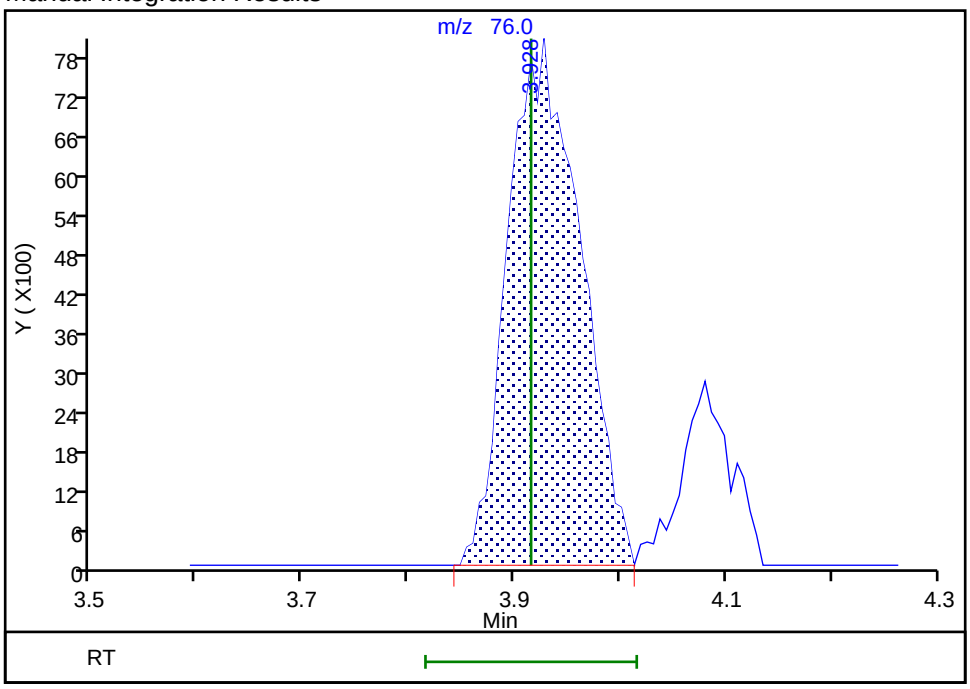
Processing Integration Results

RT: 3.92
Area: 17075
Amount: 0.179576
Amount Units: ug/l



Manual Integration Results

RT: 3.93
Area: 38392
Amount: 0.207722
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:49:17

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

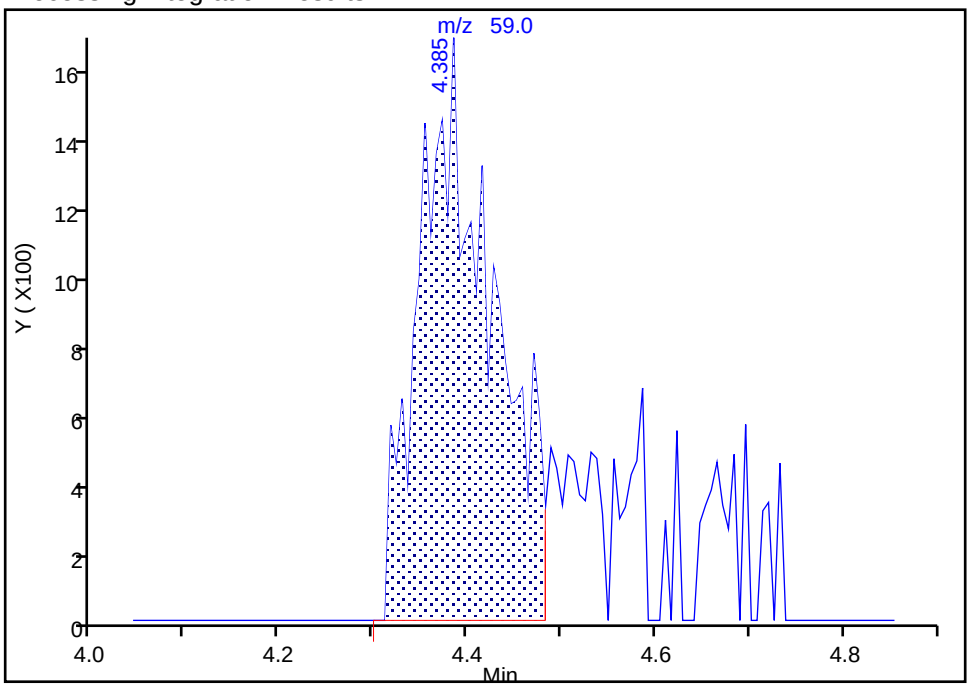
Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D
Injection Date: 30-Jun-2021 20:52:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: jml01693 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

30 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

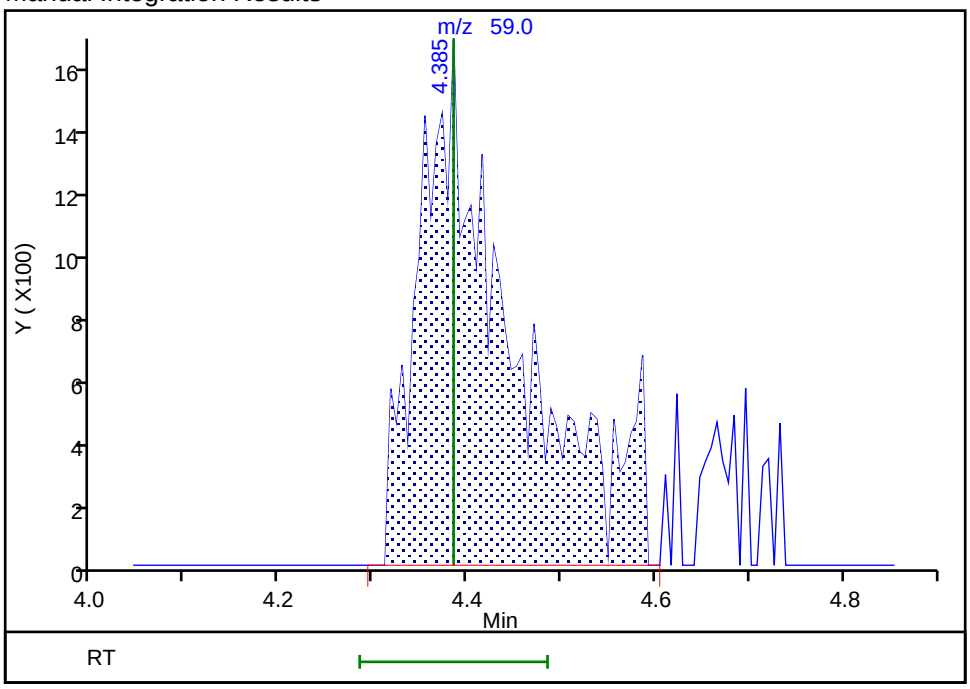
Processing Integration Results

RT: 4.39
Area: 9053
Amount: 3.235855
Amount Units: ug/l



Manual Integration Results

RT: 4.39
Area: 11543
Amount: 3.998762
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:49:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

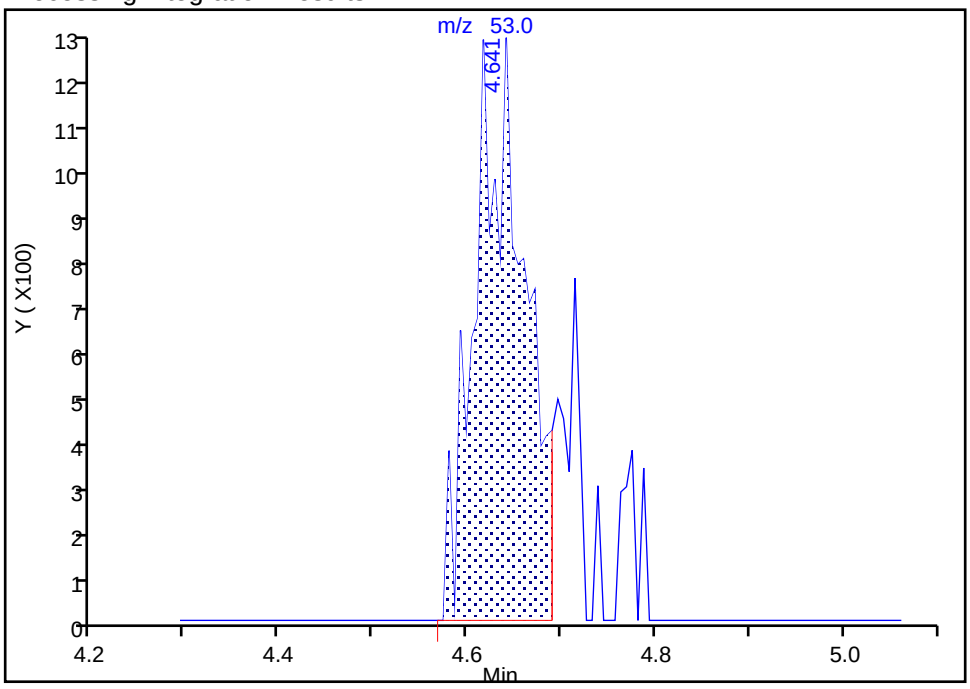
Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D
Injection Date: 30-Jun-2021 20:52:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: jml01693 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

31 Acrylonitrile, CAS: 107-13-1

Signal: 1

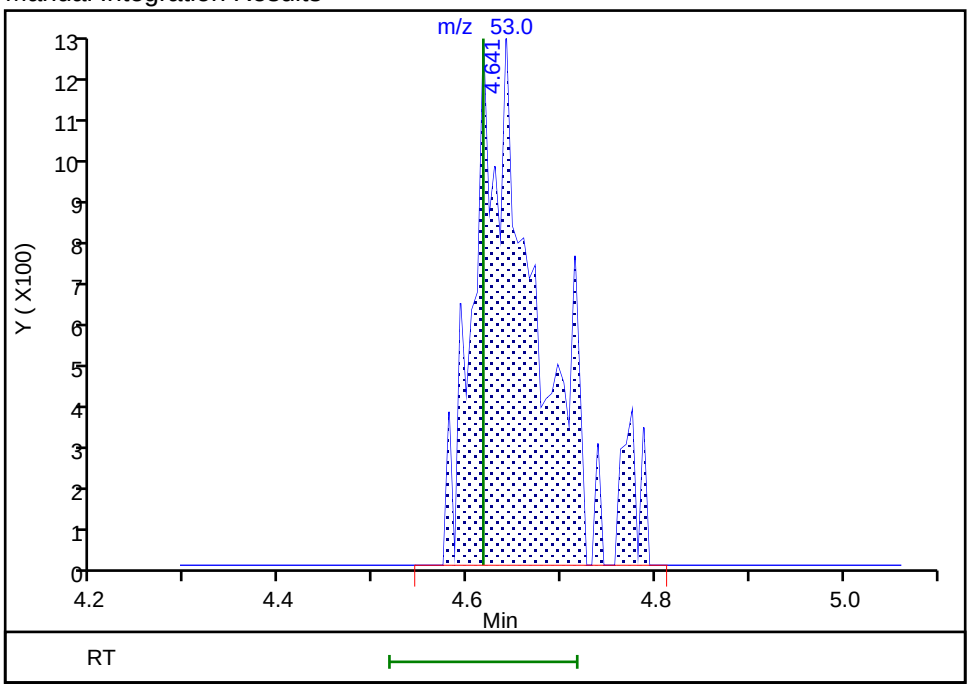
Processing Integration Results

RT: 4.64
Area: 4452
Amount: 0.380201
Amount Units: ug/l



Manual Integration Results

RT: 4.64
Area: 5825
Amount: 0.481331
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:49:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

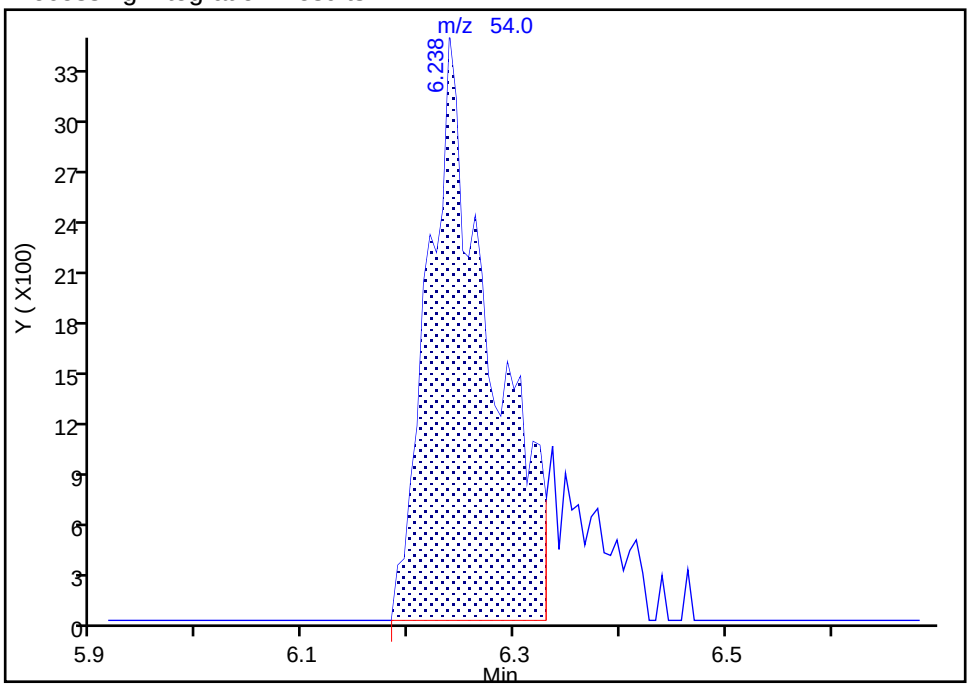
Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D
Injection Date: 30-Jun-2021 20:52:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: jml01693 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

45 Propionitrile, CAS: 107-12-0

Signal: 1

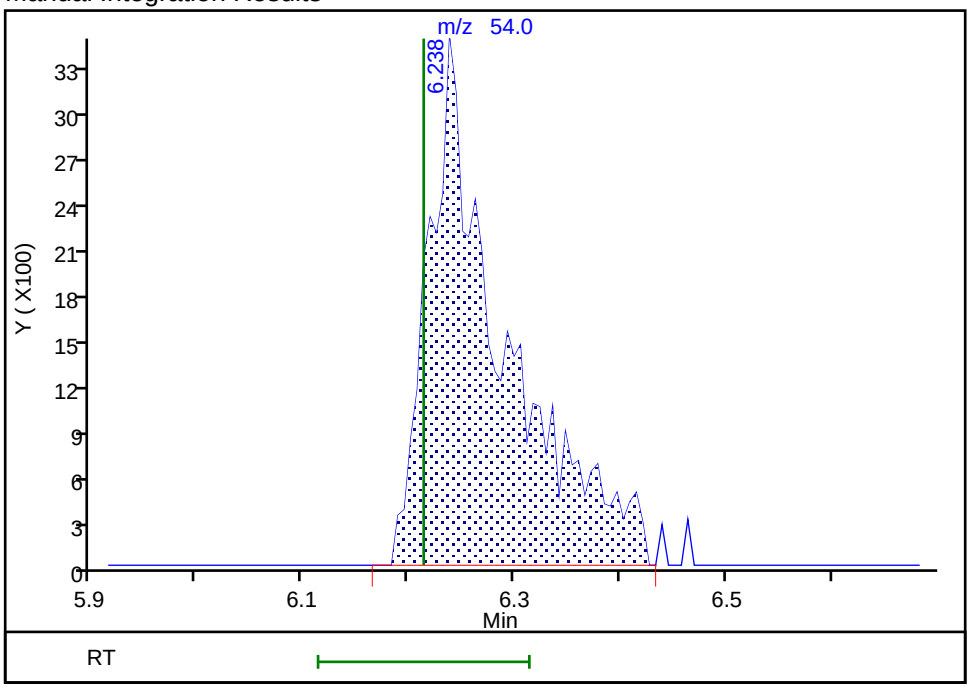
Processing Integration Results

RT: 6.24
Area: 14215
Amount: 3.311253
Amount Units: ug/l



Manual Integration Results

RT: 6.24
Area: 17193
Amount: 3.908127
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:49:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

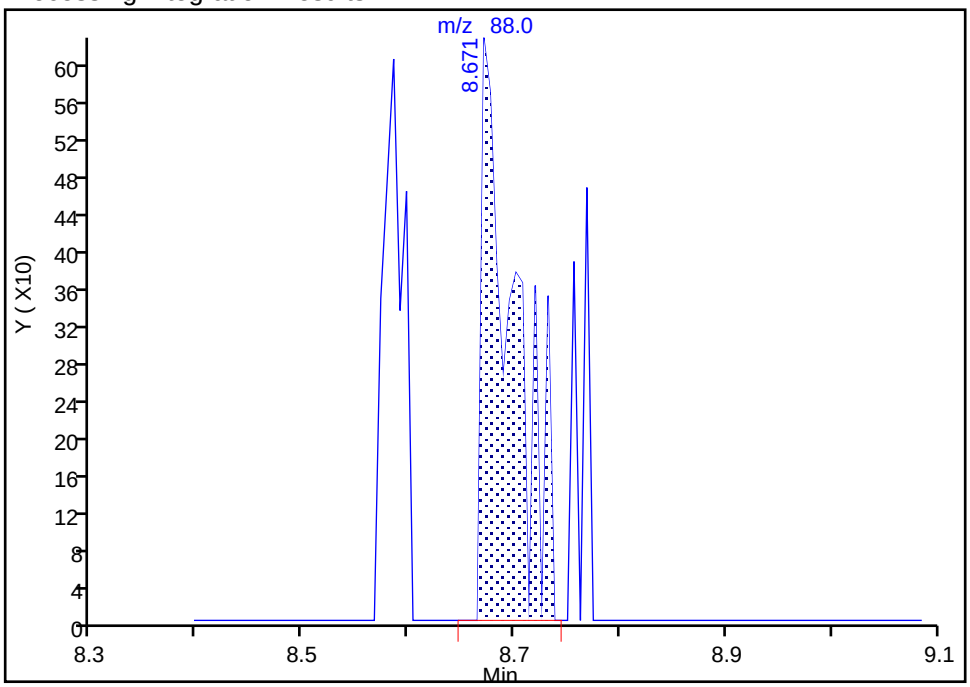
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D				
Injection Date:	30-Jun-2021 20:52:30	Instrument ID:	19094		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

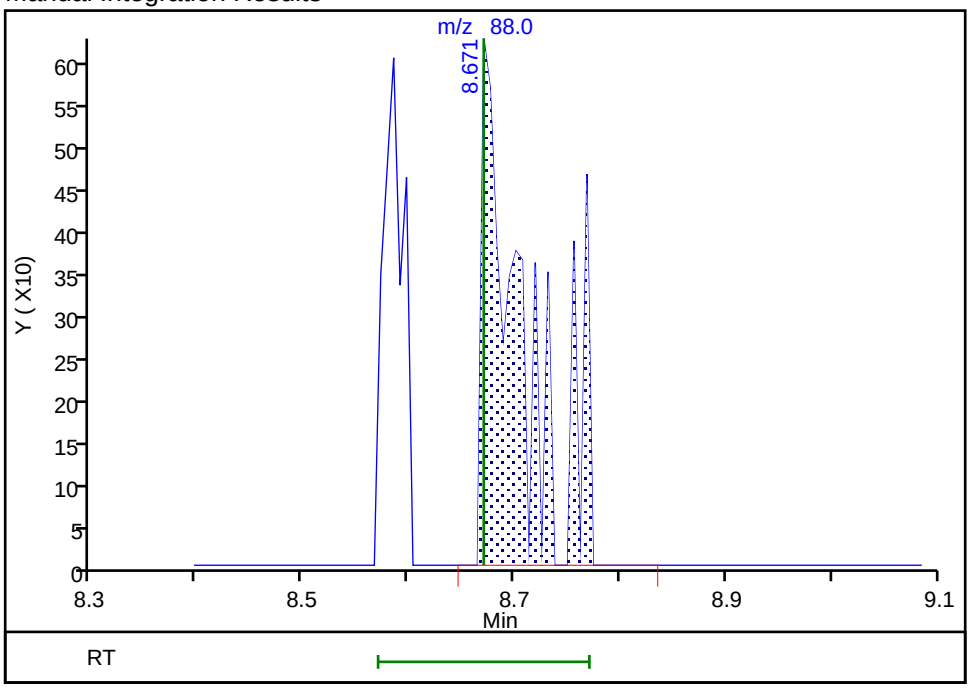
Processing Integration Results

RT: 8.67
Area: 1333
Amount: 6.989866
Amount Units: ug/l



Manual Integration Results

RT: 8.67
Area: 1646
Amount: 8.433410
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:49:59

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

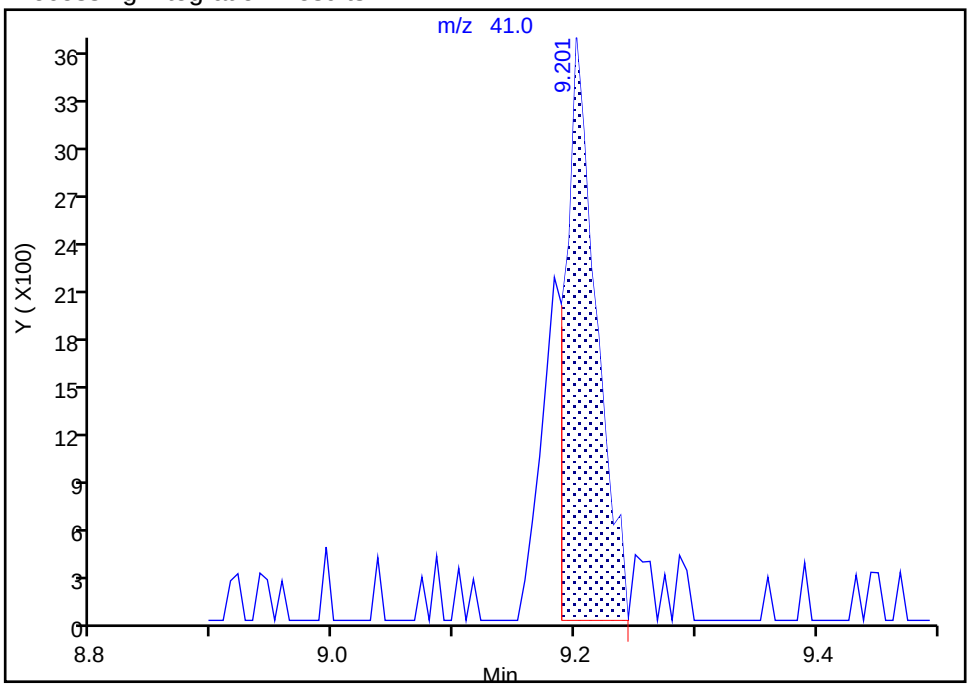
Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D
Injection Date: 30-Jun-2021 20:52:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: jml01693 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

76 2-Nitropropane, CAS: 79-46-9

Signal: 1

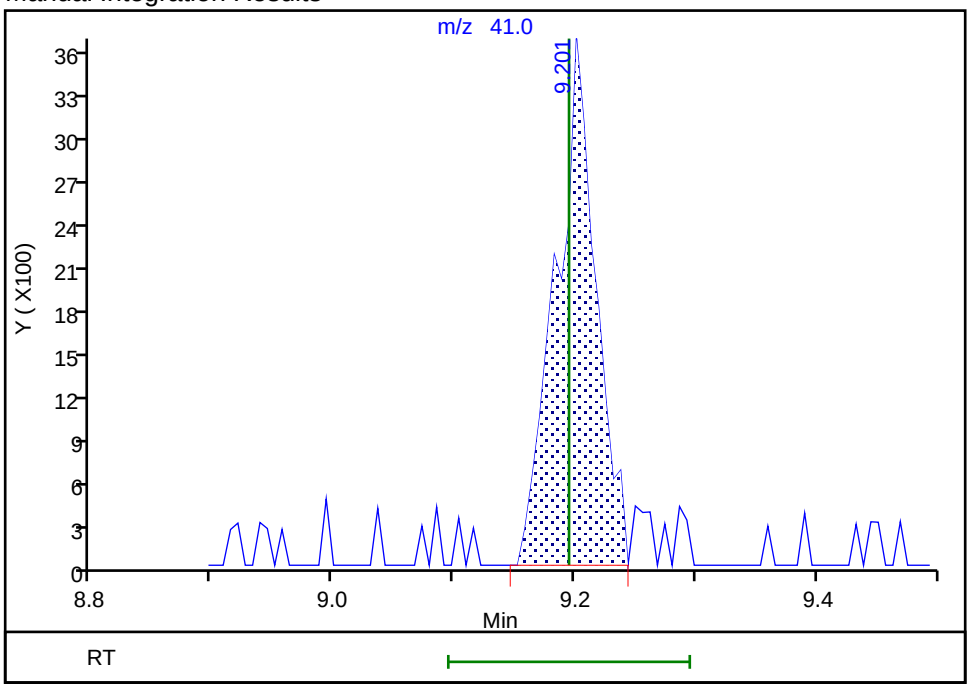
Processing Integration Results

RT: 9.20
Area: 6452
Amount: 0.850572
Amount Units: ug/l



Manual Integration Results

RT: 9.20
Area: 8525
Amount: 1.081630
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 00:50:10
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

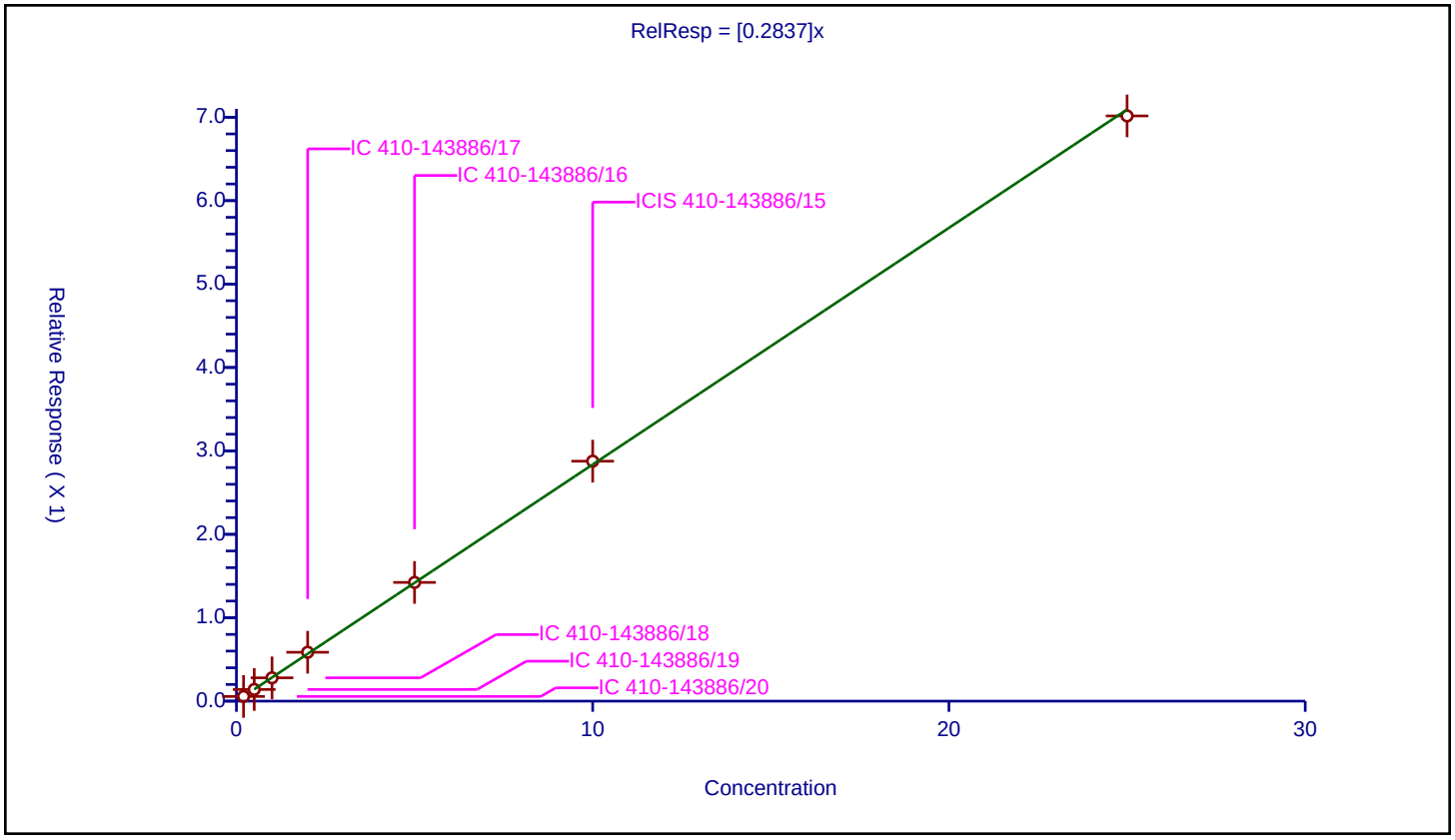
Curve Coefficients

Intercept:	0
Slope:	0.2837

Error Coefficients

Standard Error:	727000
Relative Standard Error:	1.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	0.056011	10.0	2324361.0	0.280055	Y
2	IC 410-143886/19	0.5	0.140153	10.0	2331162.0	0.280307	Y
3	IC 410-143886/18	1.0	0.279413	10.0	2375123.0	0.279413	Y
4	IC 410-143886/17	2.0	0.586096	10.0	2370175.0	0.293048	Y
5	IC 410-143886/16	5.0	1.423203	10.0	2376252.0	0.284641	Y
6	ICIS 410-143886/15	10.0	2.876702	10.0	2368765.0	0.28767	Y
7	IC 410-143886/14	25.0	7.015719	10.0	2283002.0	0.280629	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

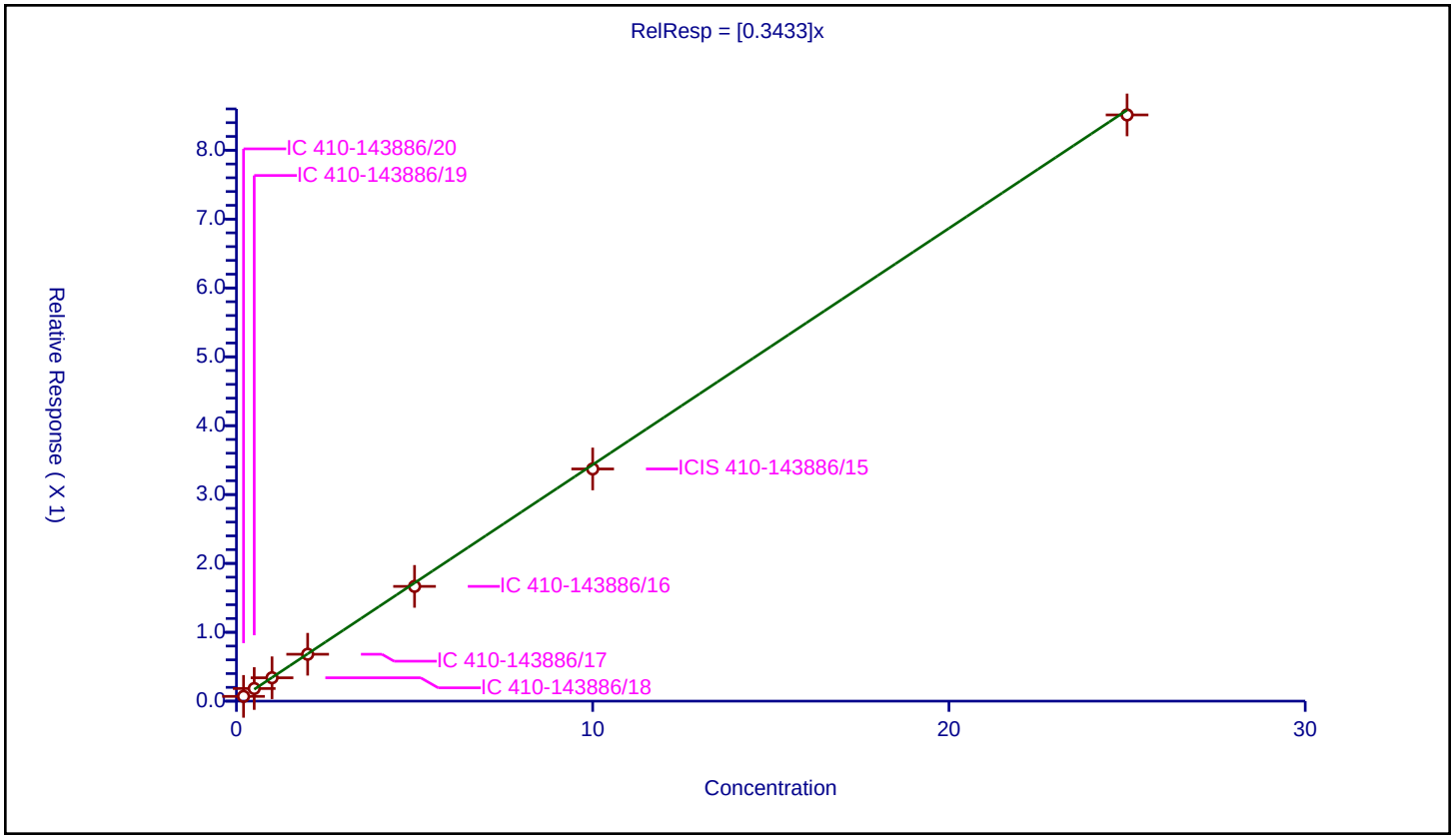
Curve Coefficients

Intercept:	0
Slope:	0.3433

Error Coefficients

Standard Error:	876000
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 410-143886/20	0.2	0.069219	10.0	2324361.0	0.346095	Y
2	IC 410-143886/19	0.5	0.183102	10.0	2331162.0	0.366204	Y
3	IC 410-143886/18	1.0	0.339431	10.0	2375123.0	0.339431	Y
4	IC 410-143886/17	2.0	0.680929	10.0	2370175.0	0.340464	Y
5	IC 410-143886/16	5.0	1.66617	10.0	2376252.0	0.333234	Y
6	ICIS 410-143886/15	10.0	3.371575	10.0	2368765.0	0.337158	Y
7	IC 410-143886/14	25.0	8.512621	10.0	2283002.0	0.340505	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

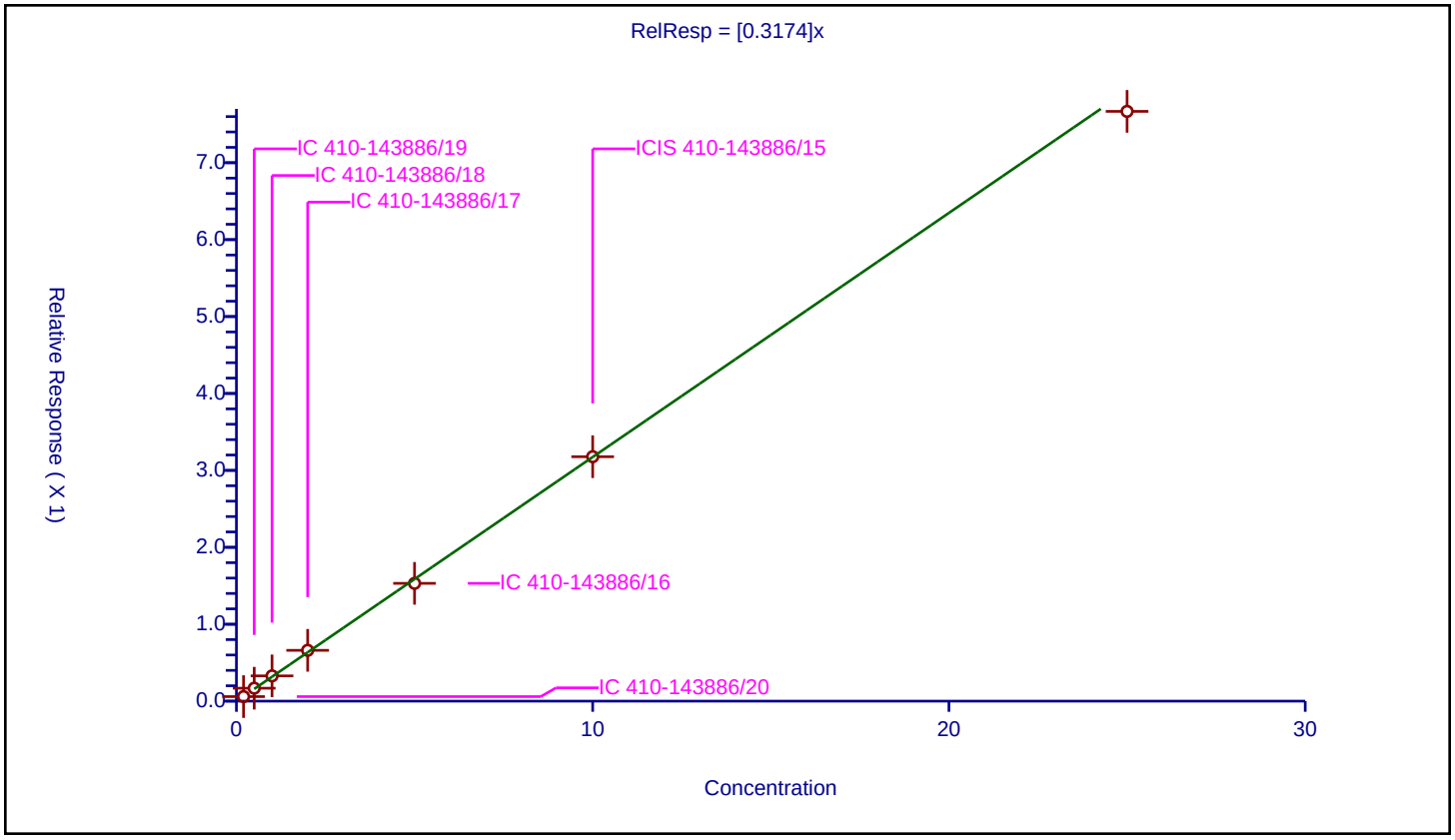
Curve Coefficients

Intercept:	0
Slope:	0.3174

Error Coefficients

Standard Error:	795000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	0.059096	10.0	2324361.0	0.295479	Y
2	IC 410-143886/19	0.5	0.168208	10.0	2331162.0	0.336416	Y
3	IC 410-143886/18	1.0	0.328572	10.0	2375123.0	0.328572	Y
4	IC 410-143886/17	2.0	0.660559	10.0	2370175.0	0.330279	Y
5	IC 410-143886/16	5.0	1.531445	10.0	2376252.0	0.306289	Y
6	ICIS 410-143886/15	10.0	3.178015	10.0	2368765.0	0.317801	Y
7	IC 410-143886/14	25.0	7.667939	10.0	2283002.0	0.306718	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

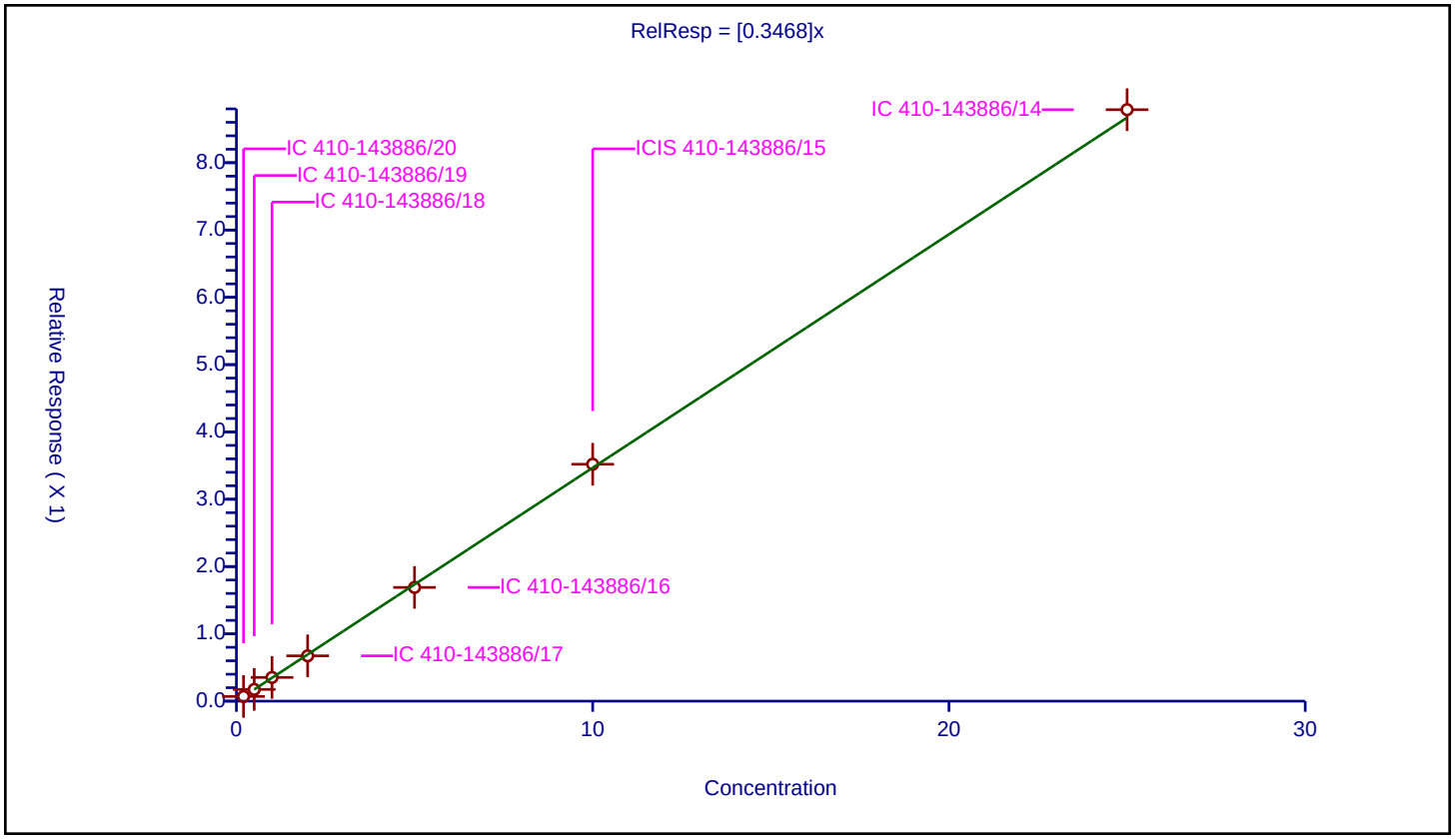
Curve Coefficients

Intercept:	0
Slope:	0.3468

Error Coefficients

Standard Error:	905000
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	0.069722	10.0	2324361.0	0.348612	Y
2	IC 410-143886/19	0.5	0.174209	10.0	2331162.0	0.348419	Y
3	IC 410-143886/18	1.0	0.352344	10.0	2375123.0	0.352344	Y
4	IC 410-143886/17	2.0	0.673495	10.0	2370175.0	0.336747	Y
5	IC 410-143886/16	5.0	1.689821	10.0	2376252.0	0.337964	Y
6	ICIS 410-143886/15	10.0	3.519986	10.0	2368765.0	0.351999	Y
7	IC 410-143886/14	25.0	8.788284	10.0	2283002.0	0.351531	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

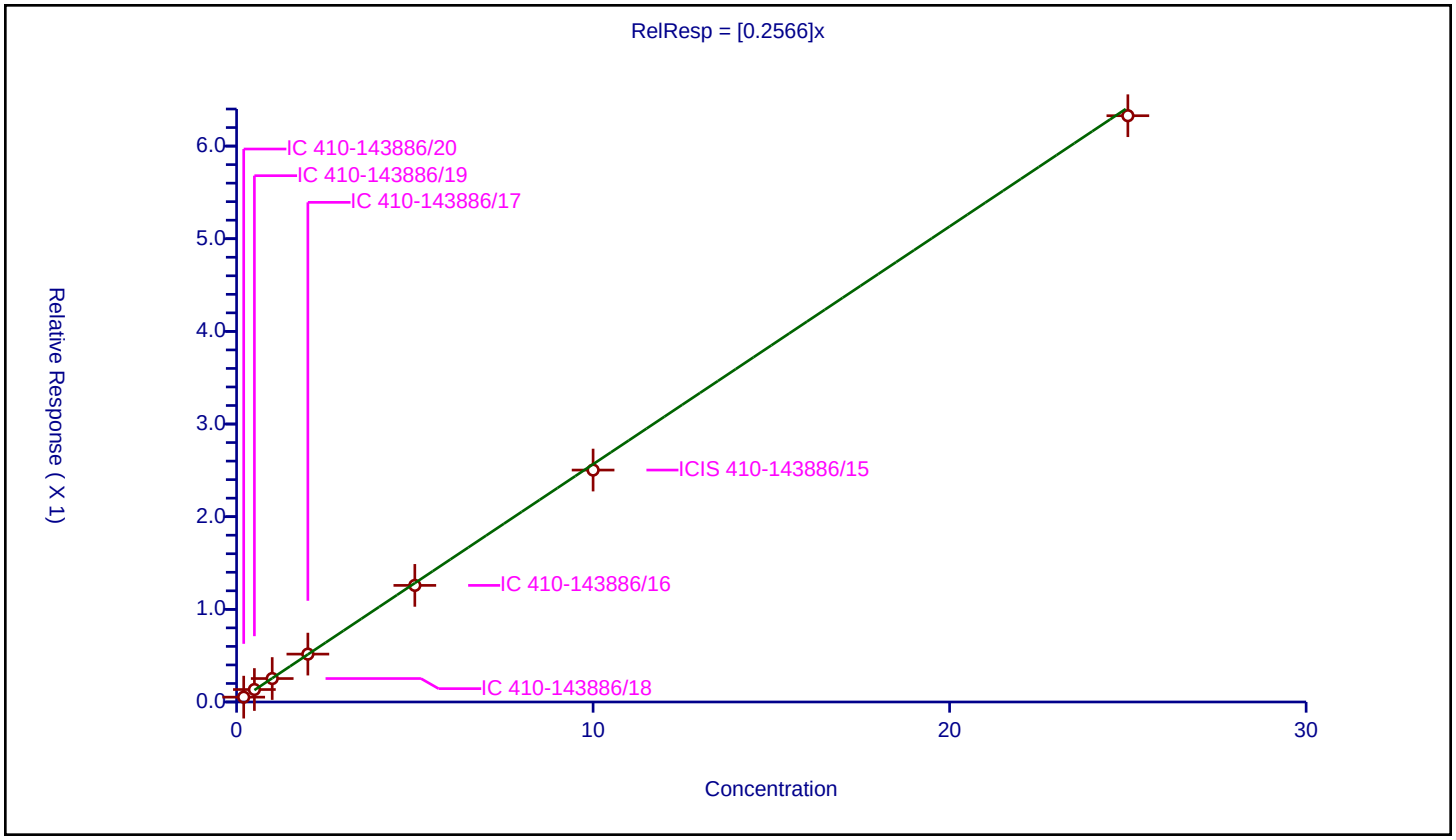
Curve Coefficients

Intercept:	0
Slope:	0.2566

Error Coefficients

Standard Error:	652000
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 410-143886/20	0.2	0.052156	10.0	2324361.0	0.260781	Y
2	IC 410-143886/19	0.5	0.134512	10.0	2331162.0	0.269025	Y
3	IC 410-143886/18	1.0	0.25301	10.0	2375123.0	0.25301	Y
4	IC 410-143886/17	2.0	0.516865	10.0	2370175.0	0.258432	Y
5	IC 410-143886/16	5.0	1.258343	10.0	2376252.0	0.251669	Y
6	ICIS 410-143886/15	10.0	2.503313	10.0	2368765.0	0.250331	Y
7	IC 410-143886/14	25.0	6.327892	10.0	2283002.0	0.253116	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

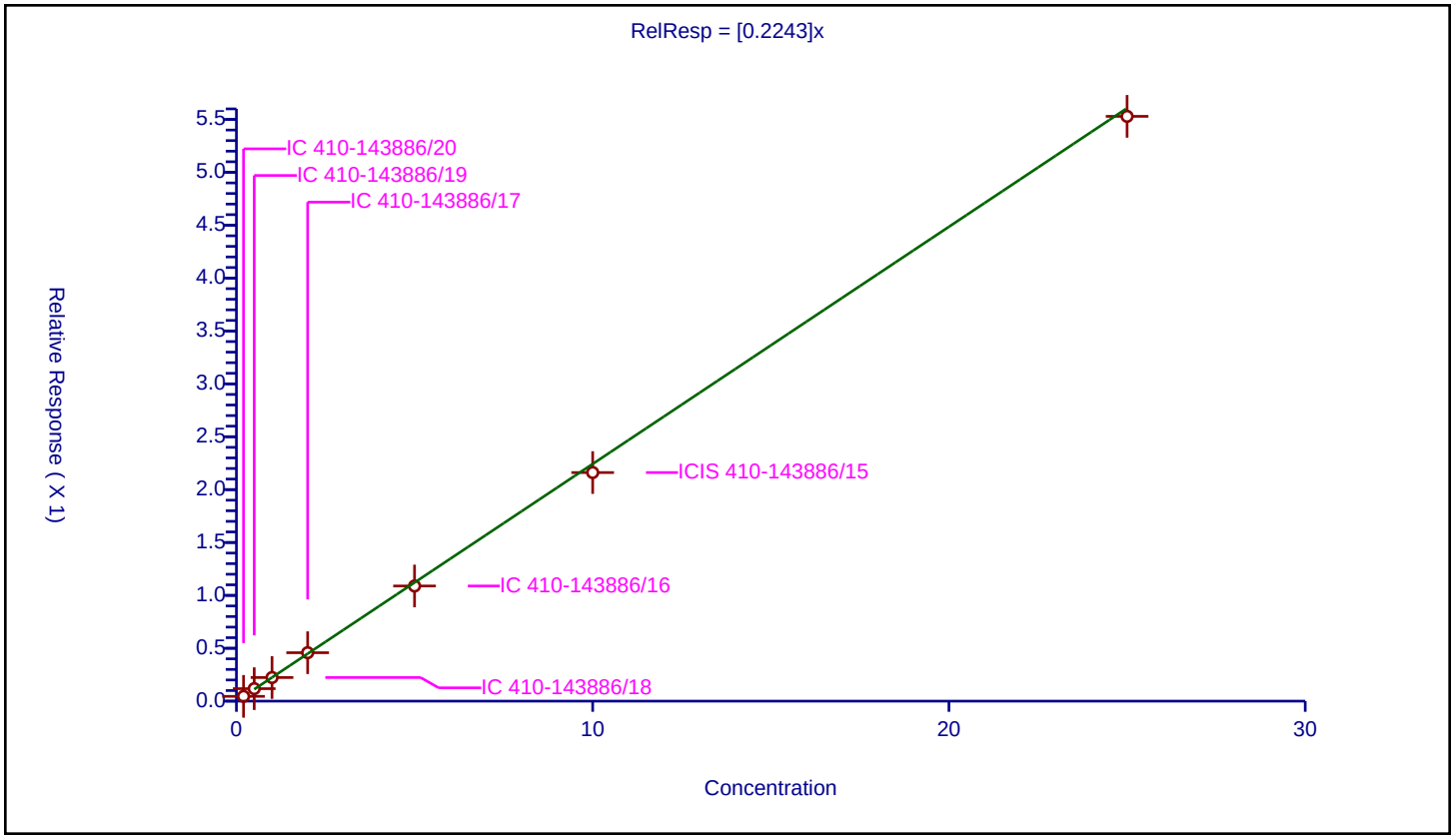
Curve Coefficients

Intercept:	0
Slope:	0.2243

Error Coefficients

Standard Error:	568000
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 410-143886/20	0.2	0.045303	10.0	2324361.0	0.226514	Y
2	IC 410-143886/19	0.5	0.118031	10.0	2331162.0	0.236063	Y
3	IC 410-143886/18	1.0	0.223214	10.0	2375123.0	0.223214	Y
4	IC 410-143886/17	2.0	0.458089	10.0	2370175.0	0.229044	Y
5	IC 410-143886/16	5.0	1.088769	10.0	2376252.0	0.217754	Y
6	ICIS 410-143886/15	10.0	2.161422	10.0	2368765.0	0.216142	Y
7	IC 410-143886/14	25.0	5.529548	10.0	2283002.0	0.221182	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

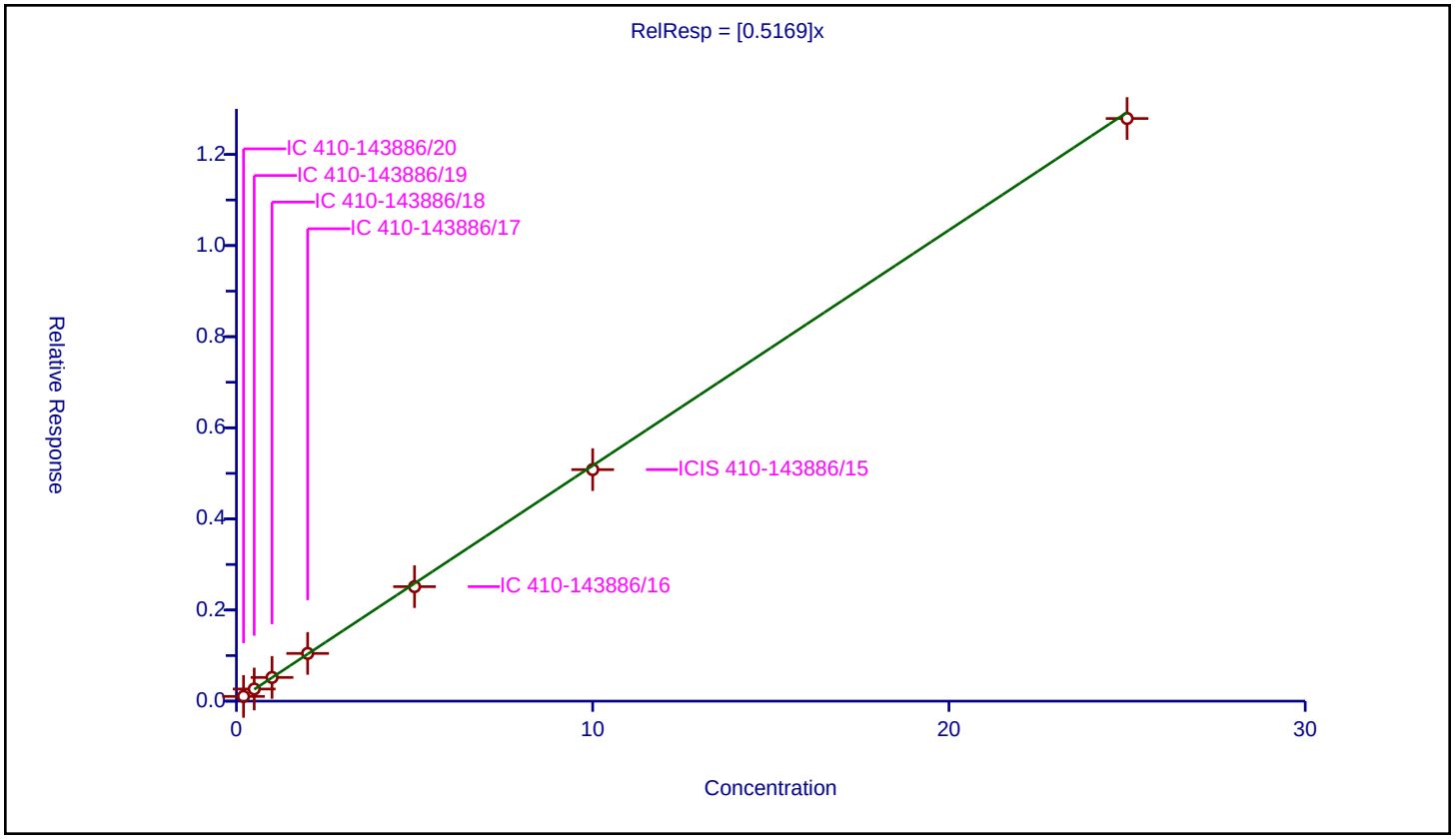
Curve Coefficients

Intercept:	0
Slope:	0.5169

Error Coefficients

Standard Error:	1320000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	0.103831	10.0	2324361.0	0.519153	Y
2	IC 410-143886/19	0.5	0.266579	10.0	2331162.0	0.533159	Y
3	IC 410-143886/18	1.0	0.520112	10.0	2375123.0	0.520112	Y
4	IC 410-143886/17	2.0	1.047446	10.0	2370175.0	0.523723	Y
5	IC 410-143886/16	5.0	2.513037	10.0	2376252.0	0.502607	Y
6	ICIS 410-143886/15	10.0	5.081973	10.0	2368765.0	0.508197	Y
7	IC 410-143886/14	25.0	12.789183	10.0	2283002.0	0.511567	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

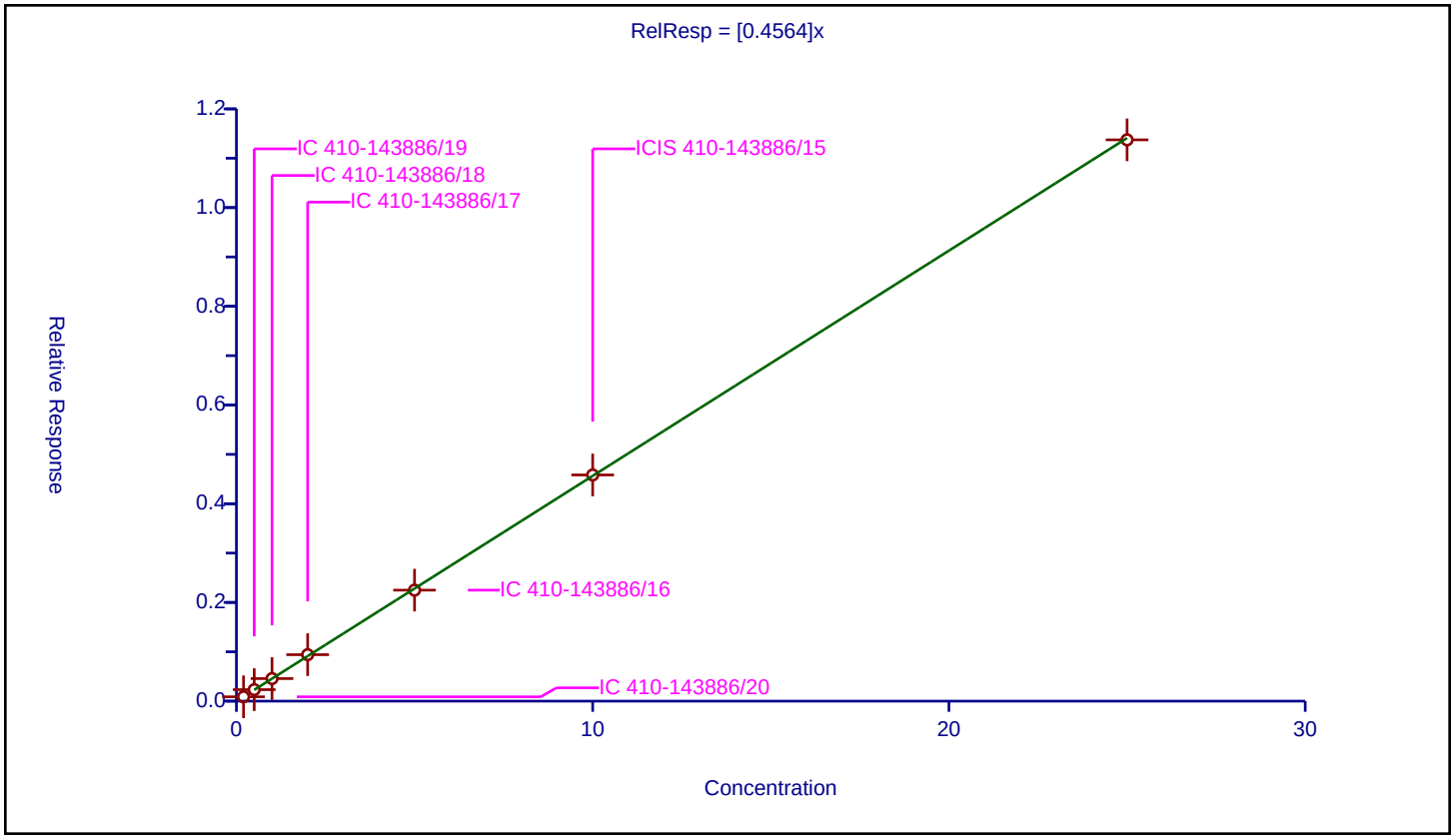
Curve Coefficients

Intercept:	0
Slope:	0.4564

Error Coefficients

Standard Error:	1170000
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 410-143886/20	0.2	0.087598	10.0	2324361.0	0.437991	Y
2	IC 410-143886/19	0.5	0.232875	10.0	2331162.0	0.465751	Y
3	IC 410-143886/18	1.0	0.457235	10.0	2375123.0	0.457235	Y
4	IC 410-143886/17	2.0	0.941327	10.0	2370175.0	0.470664	Y
5	IC 410-143886/16	5.0	2.249147	10.0	2376252.0	0.449829	Y
6	ICIS 410-143886/15	10.0	4.58311	10.0	2368765.0	0.458311	Y
7	IC 410-143886/14	25.0	11.37296	10.0	2283002.0	0.454918	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

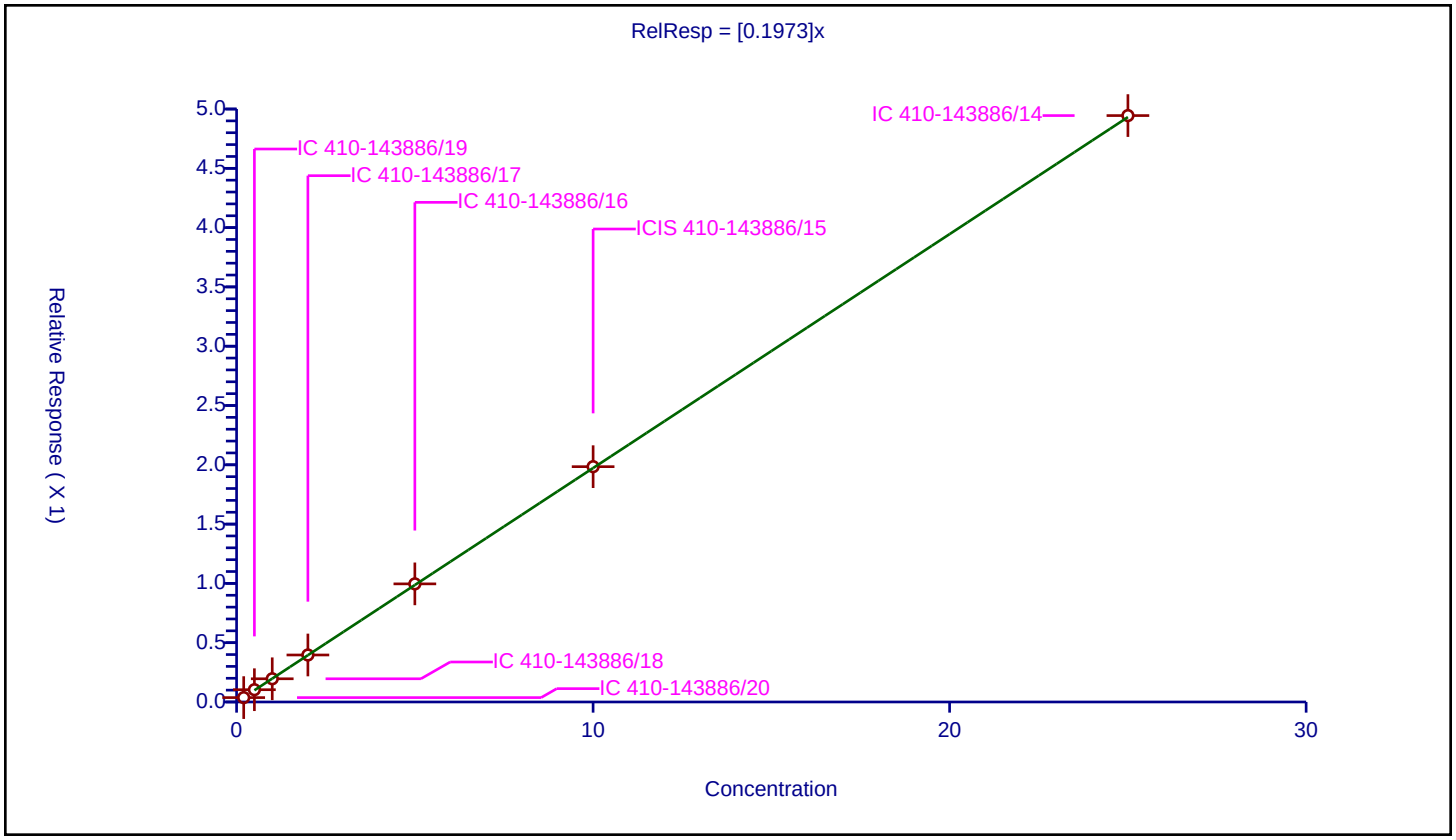
Curve Coefficients

Intercept:	0
Slope:	0.1973

Error Coefficients

Standard Error:	510000
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 410-143886/20	0.200014	0.036943	10.0	2324361.0	0.184705	Y
2	IC 410-143886/19	0.500035	0.103468	10.0	2331162.0	0.206921	Y
3	IC 410-143886/18	1.000069	0.195767	10.0	2375123.0	0.195753	Y
4	IC 410-143886/17	2.000138	0.396224	10.0	2370175.0	0.198098	Y
5	IC 410-143886/16	5.000346	0.995959	10.0	2376252.0	0.199178	Y
6	ICIS 410-143886/15	10.000692	1.984169	10.0	2368765.0	0.198403	Y
7	IC 410-143886/14	25.00173	4.944757	10.0	2283002.0	0.197777	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

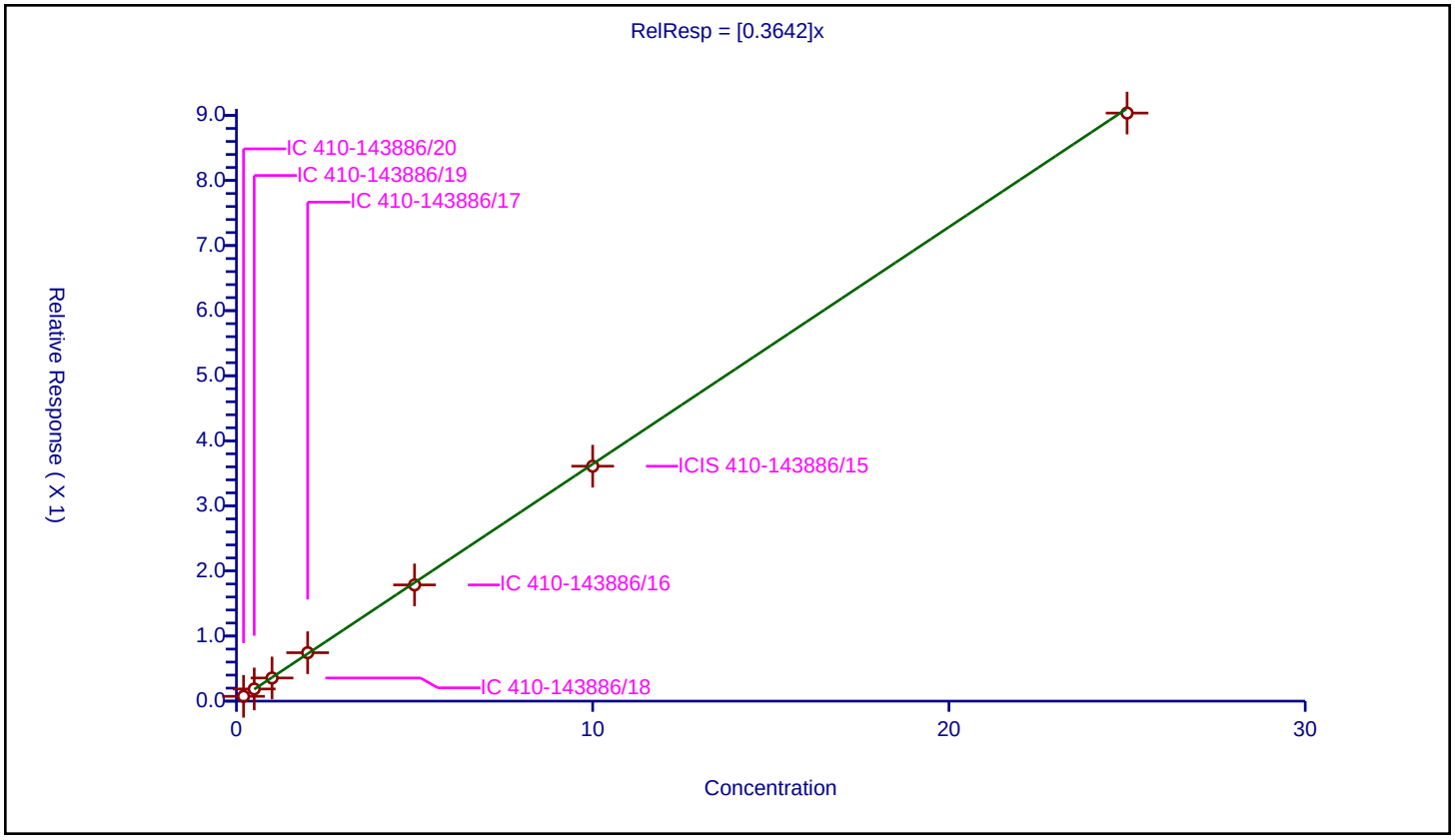
Curve Coefficients

Intercept:	0
Slope:	0.3642

Error Coefficients

Standard Error:	932000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	0.073706	10.0	2324361.0	0.368531	Y
2	IC 410-143886/19	0.5	0.18692	10.0	2331162.0	0.373839	Y
3	IC 410-143886/18	1.0	0.355645	10.0	2375123.0	0.355645	Y
4	IC 410-143886/17	2.0	0.744051	10.0	2370175.0	0.372025	Y
5	IC 410-143886/16	5.0	1.785745	10.0	2376252.0	0.357149	Y
6	ICIS 410-143886/15	10.0	3.610109	10.0	2368765.0	0.361011	Y
7	IC 410-143886/14	25.0	9.035954	10.0	2283002.0	0.361438	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

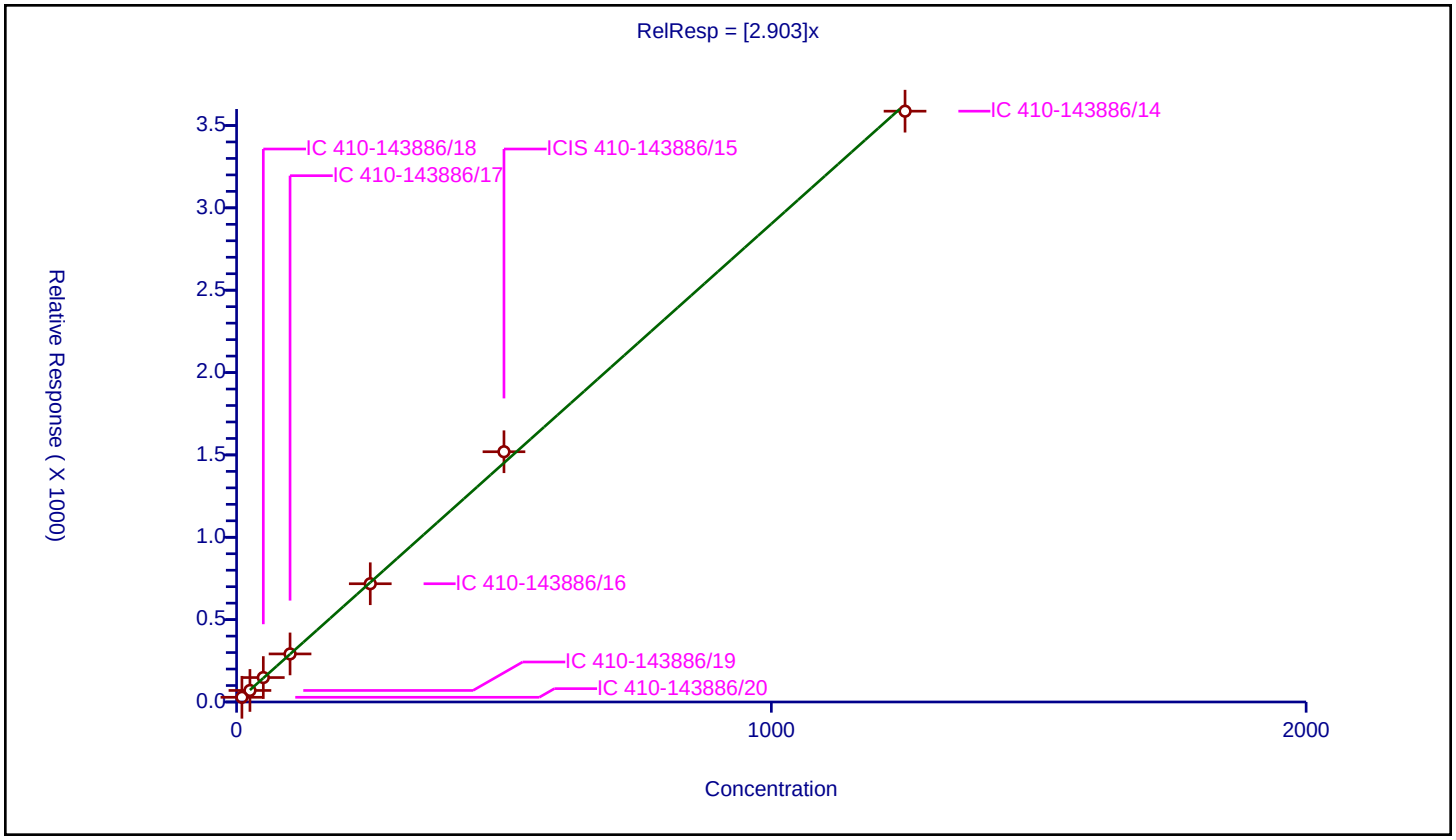
Curve Coefficients

Intercept:	0
Slope:	2.903

Error Coefficients

Standard Error:	3930000
Relative Standard Error:	2.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	10.000089	28.510463	50.0	126301.0	2.851021	Y
2	IC 410-143886/19	25.000221	70.084543	50.0	128101.0	2.803357	Y
3	IC 410-143886/18	50.000443	148.396367	50.0	127180.0	2.967901	Y
4	IC 410-143886/17	100.000886	291.784248	50.0	130548.0	2.917817	Y
5	IC 410-143886/16	250.002214	717.96935	50.0	130308.0	2.871852	Y
6	ICIS 410-143886/15	500.004429	1519.364708	50.0	123880.0	3.038703	Y
7	IC 410-143886/14	1250.011072	3586.867952	50.0	120244.0	2.869469	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

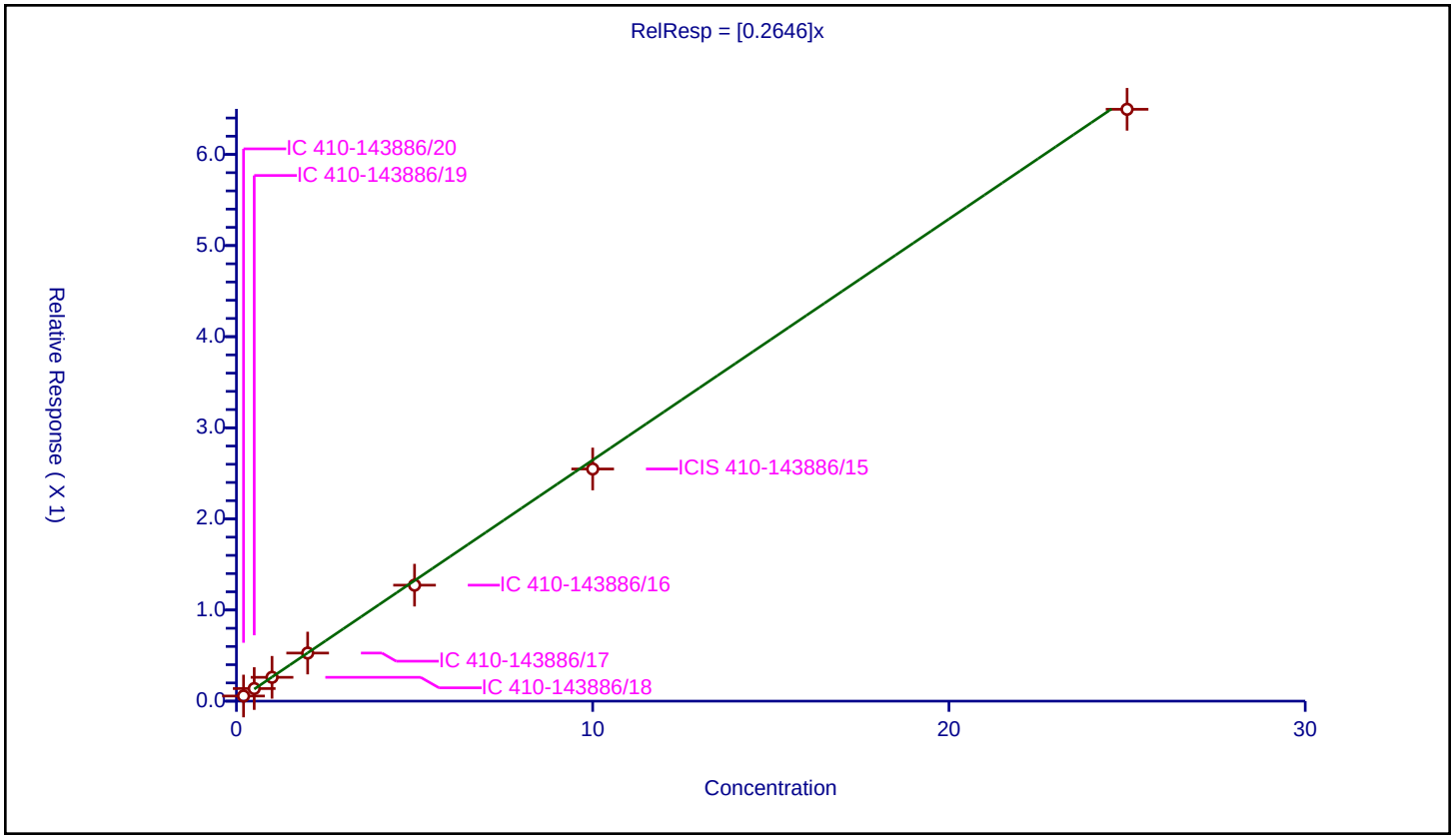
Curve Coefficients

Intercept:	0
Slope:	0.2646

Error Coefficients

Standard Error:	668000
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 410-143886/20	0.2	0.056304	10.0	2324361.0	0.281518	Y
2	IC 410-143886/19	0.5	0.138021	10.0	2331162.0	0.276043	Y
3	IC 410-143886/18	1.0	0.261435	10.0	2375123.0	0.261435	Y
4	IC 410-143886/17	2.0	0.527687	10.0	2370175.0	0.263843	Y
5	IC 410-143886/16	5.0	1.272946	10.0	2376252.0	0.254589	Y
6	ICIS 410-143886/15	10.0	2.548037	10.0	2368765.0	0.254804	Y
7	IC 410-143886/14	25.0	6.495671	10.0	2283002.0	0.259827	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

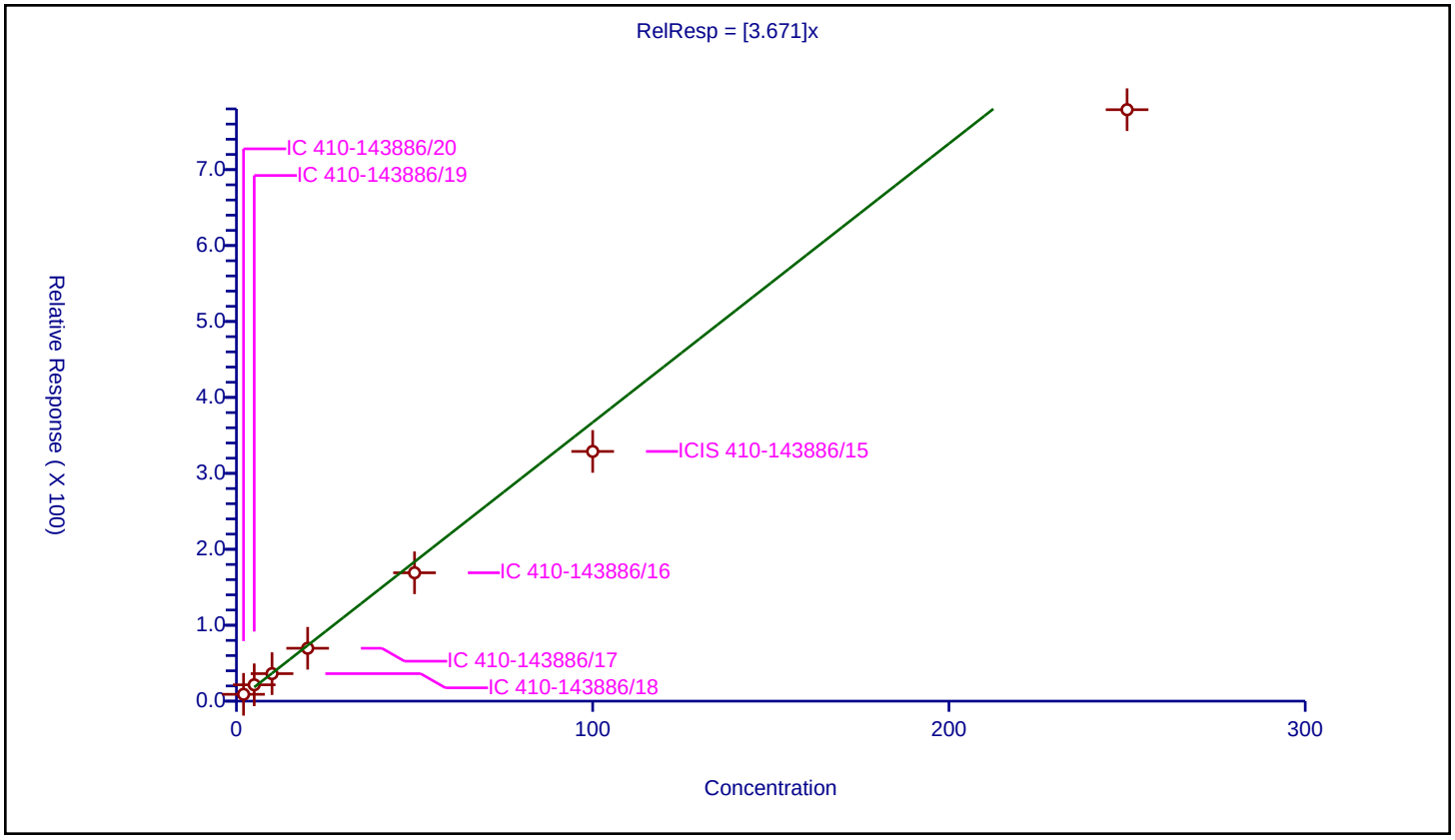
Curve Coefficients

Intercept:	0
Slope:	3.671

Error Coefficients

Standard Error:	857000
Relative Standard Error:	14.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.966

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	2.0	9.001512	50.0	126301.0	4.500756	Y
2	IC 410-143886/19	5.0	21.530277	50.0	128101.0	4.306055	Y
3	IC 410-143886/18	10.0	36.22936	50.0	127180.0	3.622936	Y
4	IC 410-143886/17	20.0	69.654074	50.0	130548.0	3.482704	Y
5	IC 410-143886/16	50.0	169.041041	50.0	130308.0	3.380821	Y
6	ICIS 410-143886/15	100.0	328.854133	50.0	123880.0	3.288541	Y
7	IC 410-143886/14	250.0	778.959033	50.0	120244.0	3.115836	Y



Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

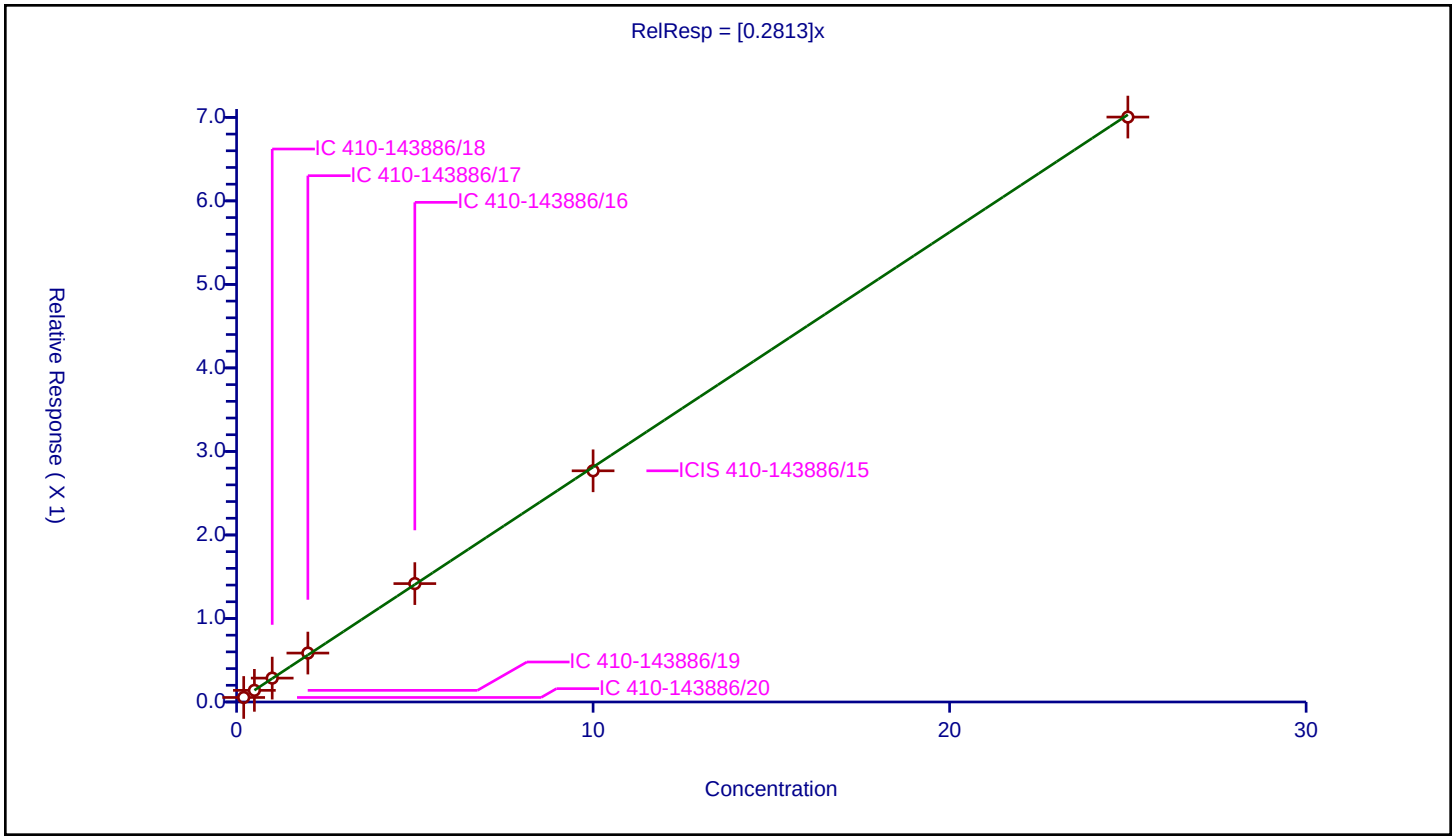
Curve Coefficients

Intercept:	0
Slope:	0.2813

Error Coefficients

Standard Error:	722000
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 410-143886/20	0.2	0.054153	10.0	2324361.0	0.270763	Y
2	IC 410-143886/19	0.5	0.139355	10.0	2331162.0	0.278711	Y
3	IC 410-143886/18	1.0	0.286078	10.0	2375123.0	0.286078	Y
4	IC 410-143886/17	2.0	0.585645	10.0	2370175.0	0.292822	Y
5	IC 410-143886/16	5.0	1.417493	10.0	2376252.0	0.283499	Y
6	ICIS 410-143886/15	10.0	2.768147	10.0	2368765.0	0.276815	Y
7	IC 410-143886/14	25.0	7.00352	10.0	2283002.0	0.280141	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

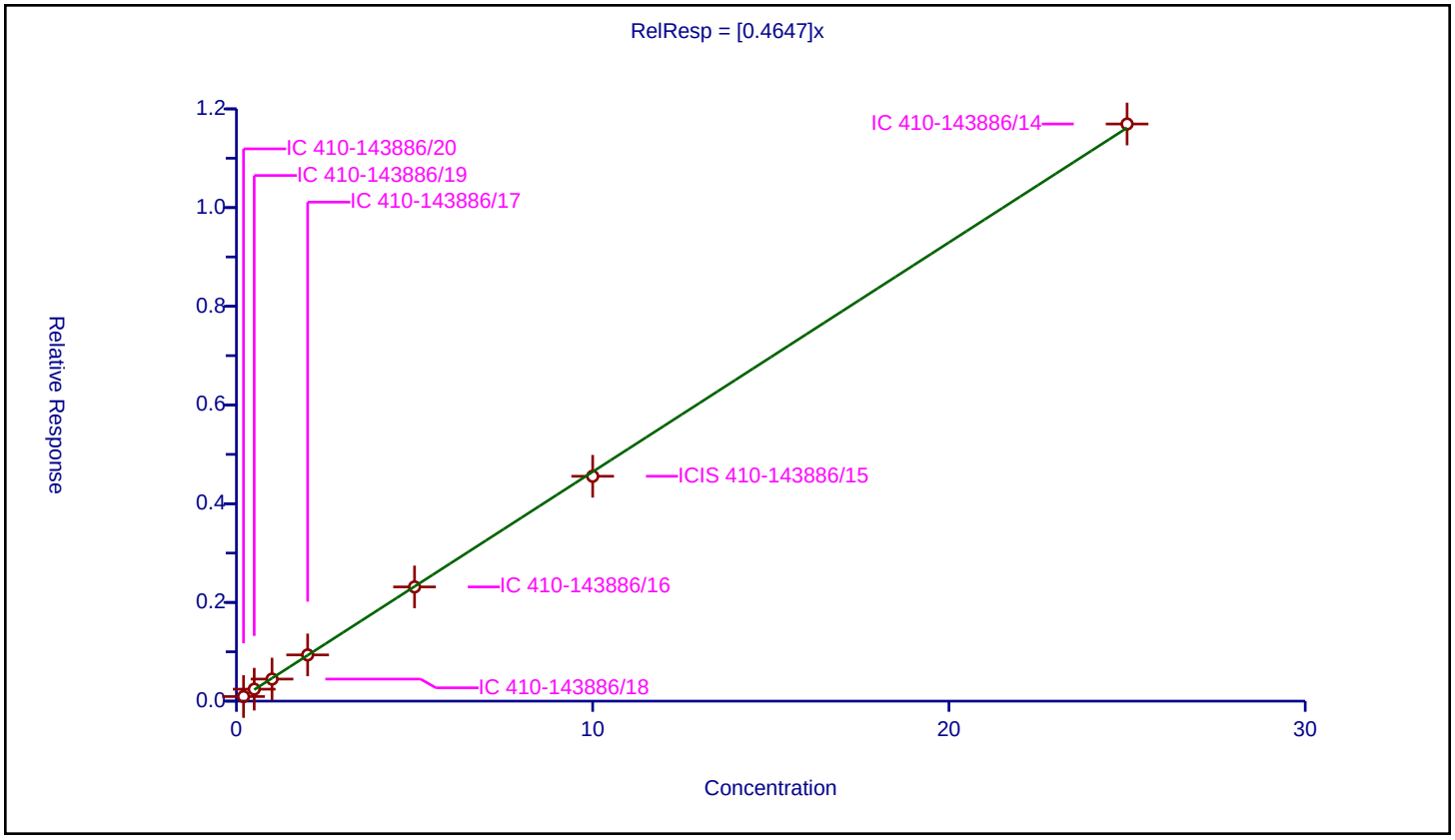
Curve Coefficients

Intercept:	0
Slope:	0.4647

Error Coefficients

Standard Error:	1200000
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 410-143886/20	0.2	0.093135	10.0	2324361.0	0.465676	Y
2	IC 410-143886/19	0.5	0.242596	10.0	2331162.0	0.485192	Y
3	IC 410-143886/18	1.0	0.447139	10.0	2375123.0	0.447139	Y
4	IC 410-143886/17	2.0	0.936821	10.0	2370175.0	0.468411	Y
5	IC 410-143886/16	5.0	2.314388	10.0	2376252.0	0.462878	Y
6	ICIS 410-143886/15	10.0	4.556357	10.0	2368765.0	0.455636	Y
7	IC 410-143886/14	25.0	11.693879	10.0	2283002.0	0.467755	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

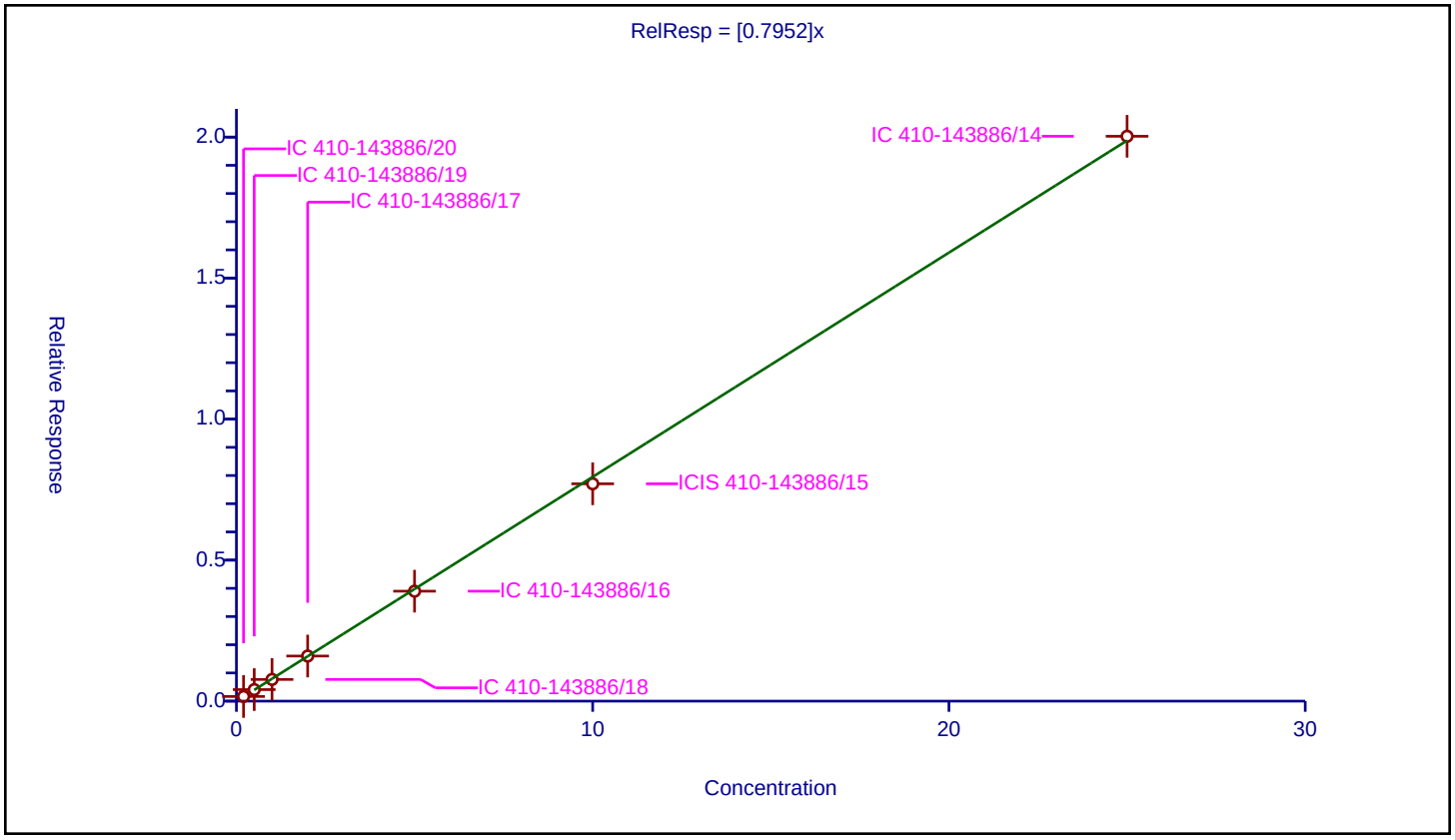
Curve Coefficients

Intercept:	0
Slope:	0.7952

Error Coefficients

Standard Error:	2050000
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 410-143886/20	0.2	0.165172	10.0	2324361.0	0.825861	Y
2	IC 410-143886/19	0.5	0.409796	10.0	2331162.0	0.819591	Y
3	IC 410-143886/18	1.0	0.769413	10.0	2375123.0	0.769413	Y
4	IC 410-143886/17	2.0	1.59938	10.0	2370175.0	0.79969	Y
5	IC 410-143886/16	5.0	3.898597	10.0	2376252.0	0.779719	Y
6	ICIS 410-143886/15	10.0	7.706678	10.0	2368765.0	0.770668	Y
7	IC 410-143886/14	25.0	20.029523	10.0	2283002.0	0.801181	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

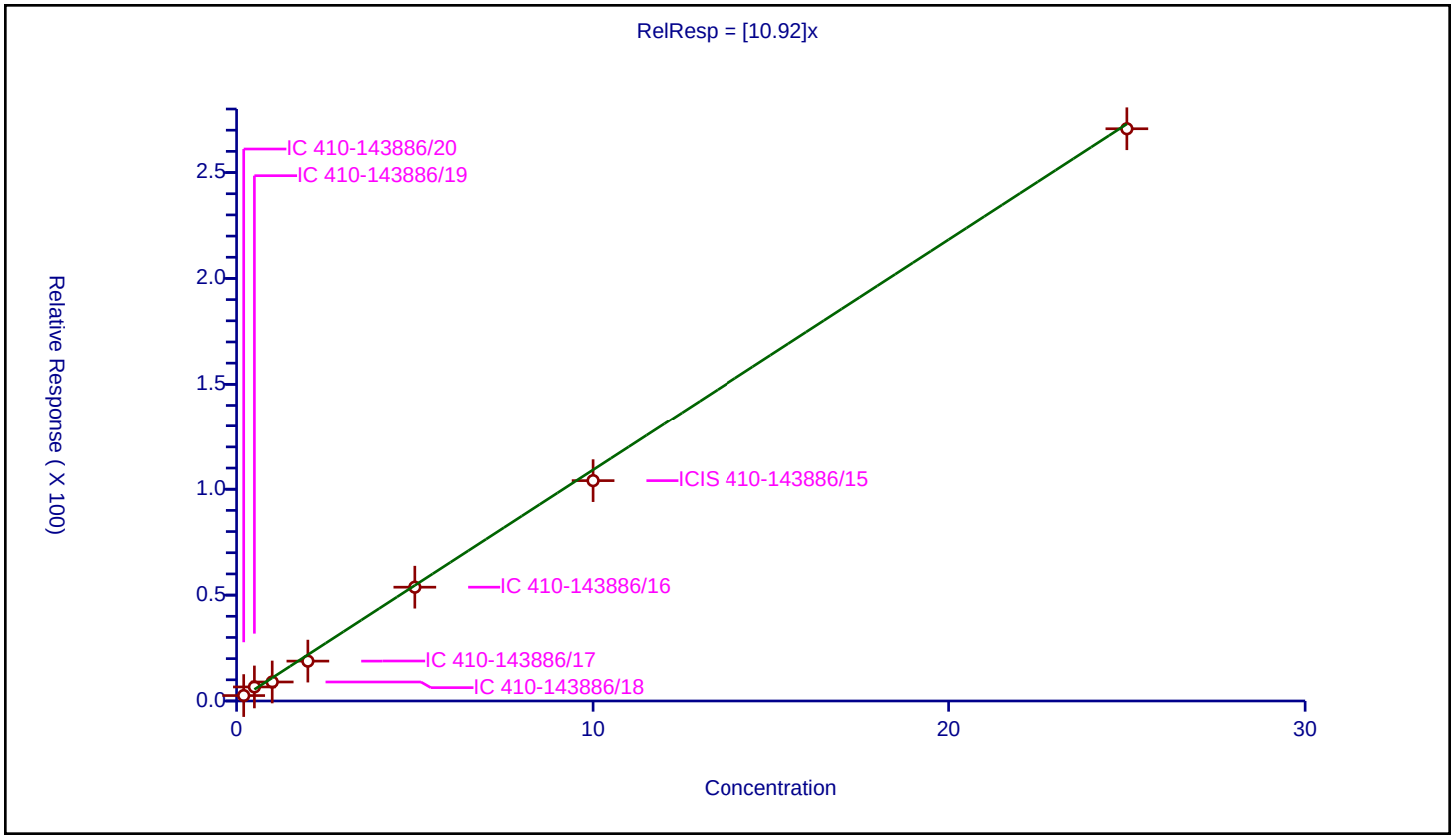
Curve Coefficients

Intercept:	0
Slope:	10.92

Error Coefficients

Standard Error:	292000
Relative Standard Error:	14.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.967

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	2.556987	50.0	126301.0	12.784934	Y
2	IC 410-143886/19	0.5	6.63578	50.0	128101.0	13.271559	Y
3	IC 410-143886/18	1.0	8.966819	50.0	127180.0	8.966819	Y
4	IC 410-143886/17	2.0	18.824877	50.0	130548.0	9.412438	Y
5	IC 410-143886/16	5.0	53.739218	50.0	130308.0	10.747844	Y
6	ICIS 410-143886/15	10.0	104.05917	50.0	123880.0	10.405917	Y
7	IC 410-143886/14	25.0	270.687519	50.0	120244.0	10.827501	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

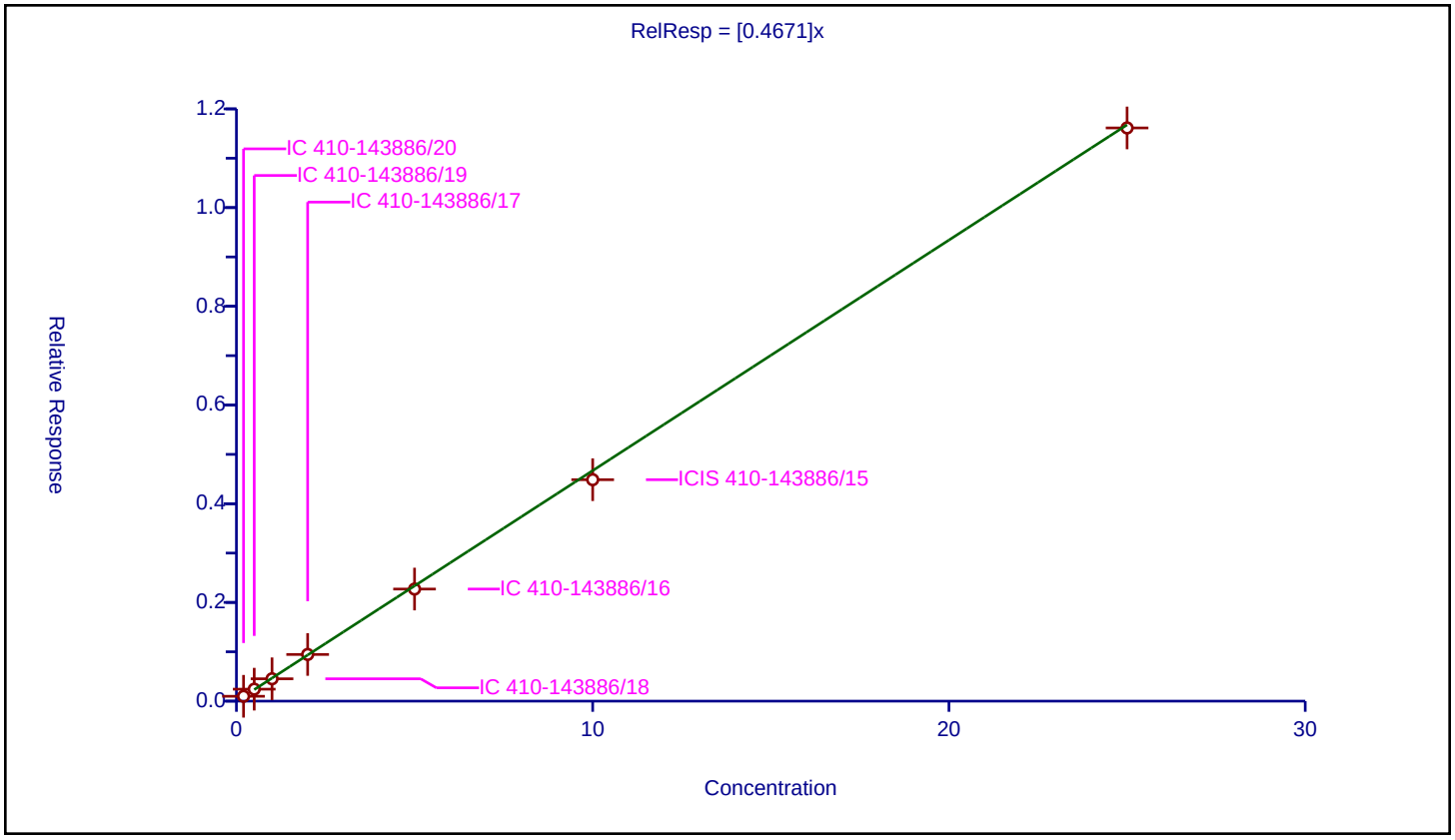
Curve Coefficients

Intercept:	0
Slope:	0.4671

Error Coefficients

Standard Error:	1190000
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 410-143886/20	0.2	0.098242	10.0	2324361.0	0.49121	Y
2	IC 410-143886/19	0.5	0.242579	10.0	2331162.0	0.485157	Y
3	IC 410-143886/18	1.0	0.452844	10.0	2375123.0	0.452844	Y
4	IC 410-143886/17	2.0	0.945985	10.0	2370175.0	0.472993	Y
5	IC 410-143886/16	5.0	2.27106	10.0	2376252.0	0.454212	Y
6	ICIS 410-143886/15	10.0	4.486832	10.0	2368765.0	0.448683	Y
7	IC 410-143886/14	25.0	11.61402	10.0	2283002.0	0.464561	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

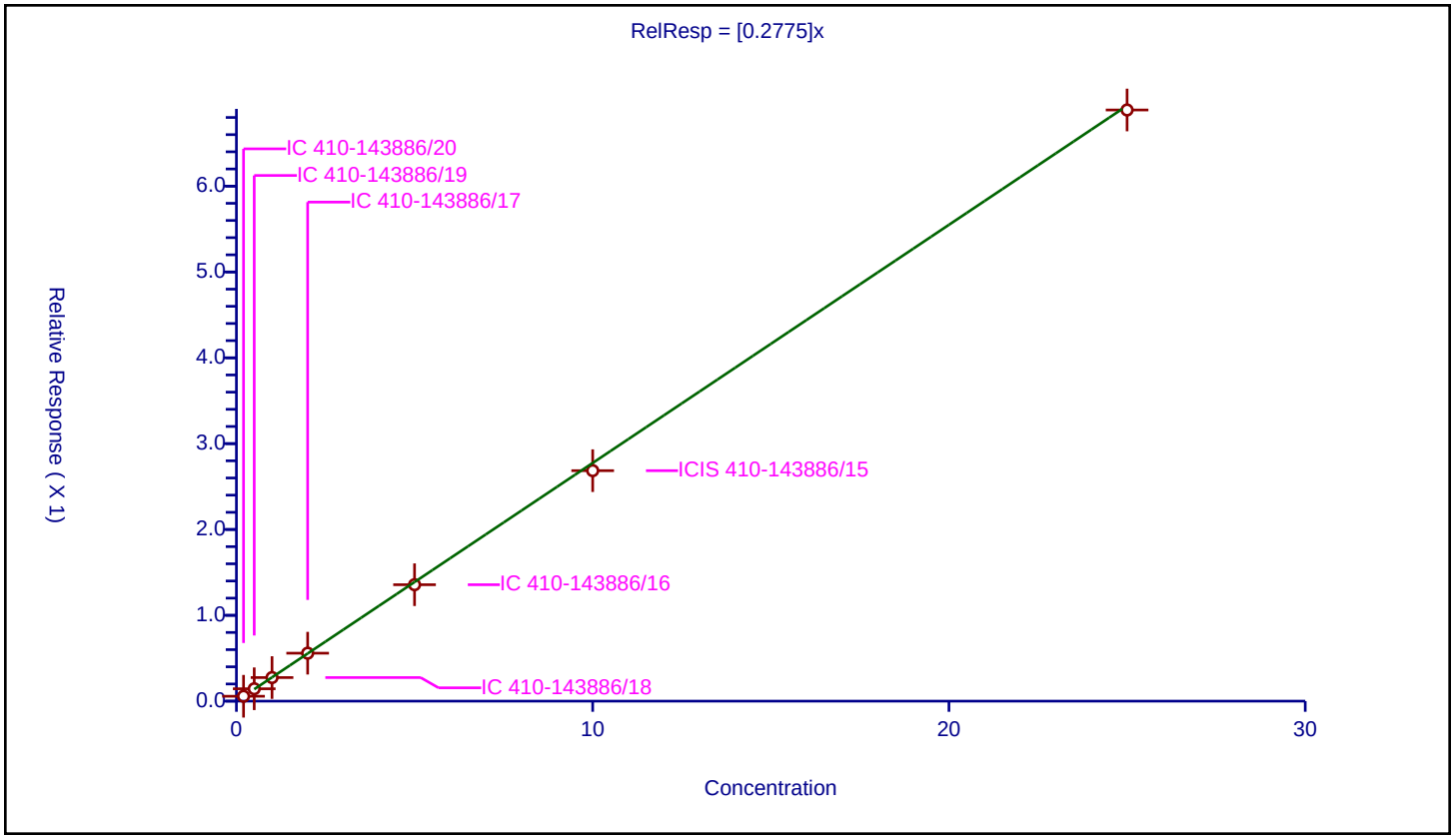
Curve Coefficients

Intercept:	0
Slope:	0.2775

Error Coefficients

Standard Error:	708000
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 410-143886/20	0.2	0.056996	10.0	2324361.0	0.284982	Y
2	IC 410-143886/19	0.5	0.14407	10.0	2331162.0	0.28814	Y
3	IC 410-143886/18	1.0	0.274622	10.0	2375123.0	0.274622	Y
4	IC 410-143886/17	2.0	0.558579	10.0	2370175.0	0.27929	Y
5	IC 410-143886/16	5.0	1.356359	10.0	2376252.0	0.271272	Y
6	ICIS 410-143886/15	10.0	2.685197	10.0	2368765.0	0.26852	Y
7	IC 410-143886/14	25.0	6.887287	10.0	2283002.0	0.275491	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

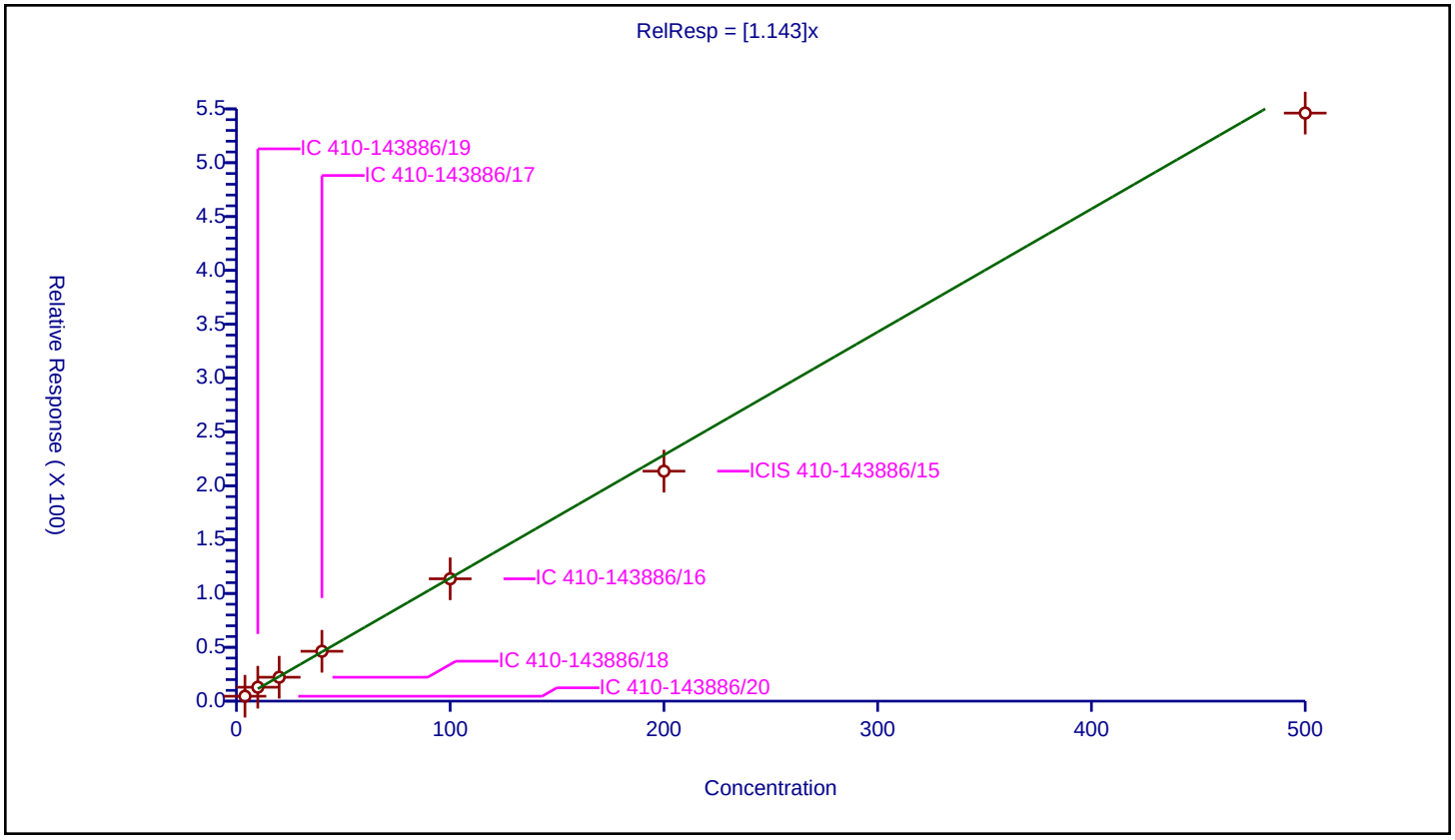
Curve Coefficients

Intercept:	0
Slope:	1.143

Error Coefficients

Standard Error:	593000
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	4.0	4.569639	50.0	126301.0	1.14241	Y
2	IC 410-143886/19	10.0	12.931983	50.0	128101.0	1.293198	Y
3	IC 410-143886/18	20.0	22.194921	50.0	127180.0	1.109746	Y
4	IC 410-143886/17	40.0	46.315148	50.0	130548.0	1.157879	Y
5	IC 410-143886/16	100.0	113.603539	50.0	130308.0	1.136035	Y
6	ICIS 410-143886/15	200.0	213.565144	50.0	123880.0	1.067826	Y
7	IC 410-143886/14	500.0	546.125378	50.0	120244.0	1.092251	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

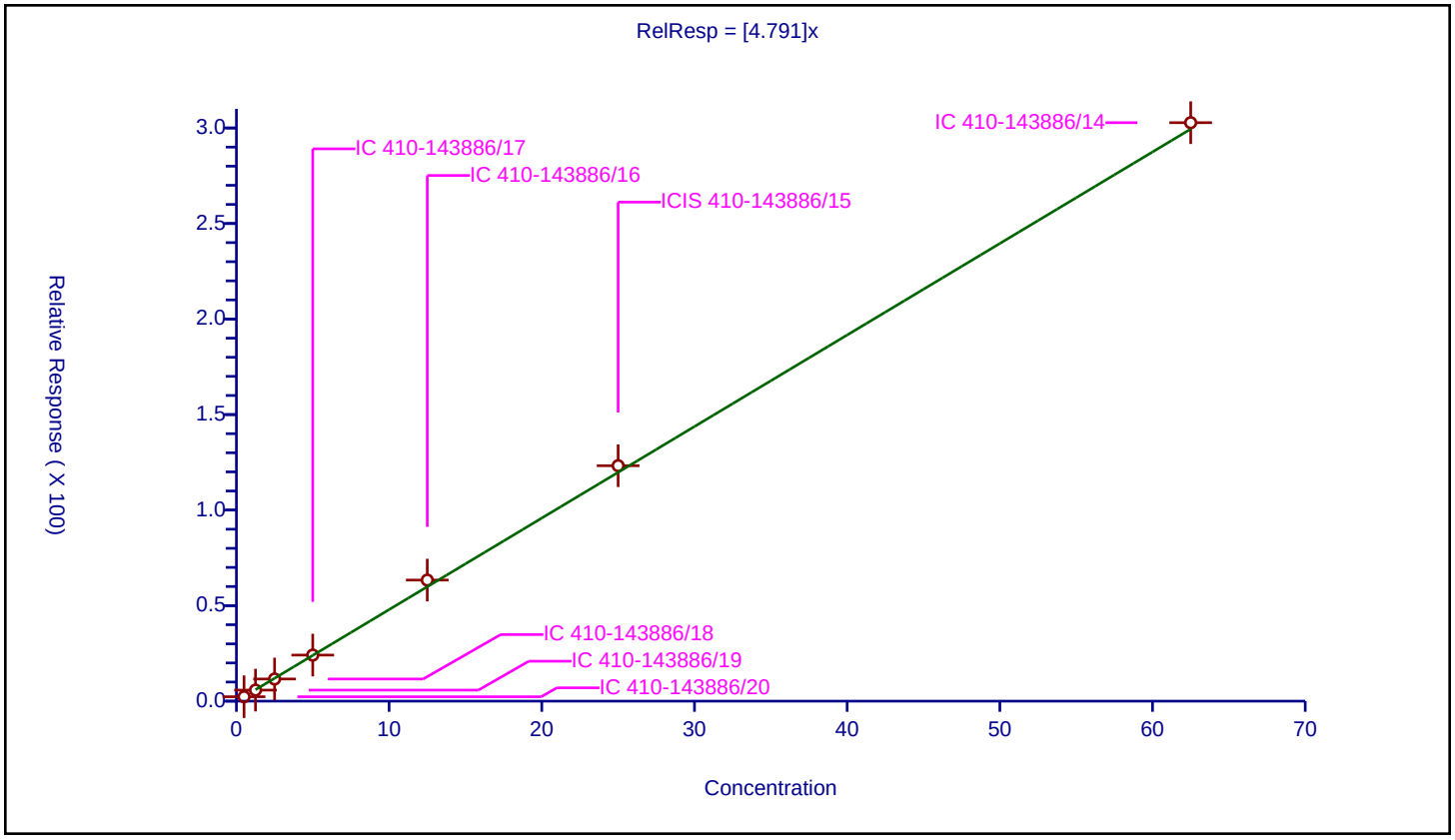
Curve Coefficients

Intercept:	0
Slope:	4.791

Error Coefficients

Standard Error:	330000
Relative Standard Error:	3.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.5	2.305999	50.0	126301.0	4.611998	Y
2	IC 410-143886/19	1.25	5.780985	50.0	128101.0	4.624788	Y
3	IC 410-143886/18	2.5	11.589086	50.0	127180.0	4.635635	Y
4	IC 410-143886/17	5.0	24.104161	50.0	130548.0	4.820832	Y
5	IC 410-143886/16	12.5	63.364874	50.0	130308.0	5.06919	Y
6	ICIS 410-143886/15	25.0	123.233371	50.0	123880.0	4.929335	Y
7	IC 410-143886/14	62.5	302.77519	50.0	120244.0	4.844403	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

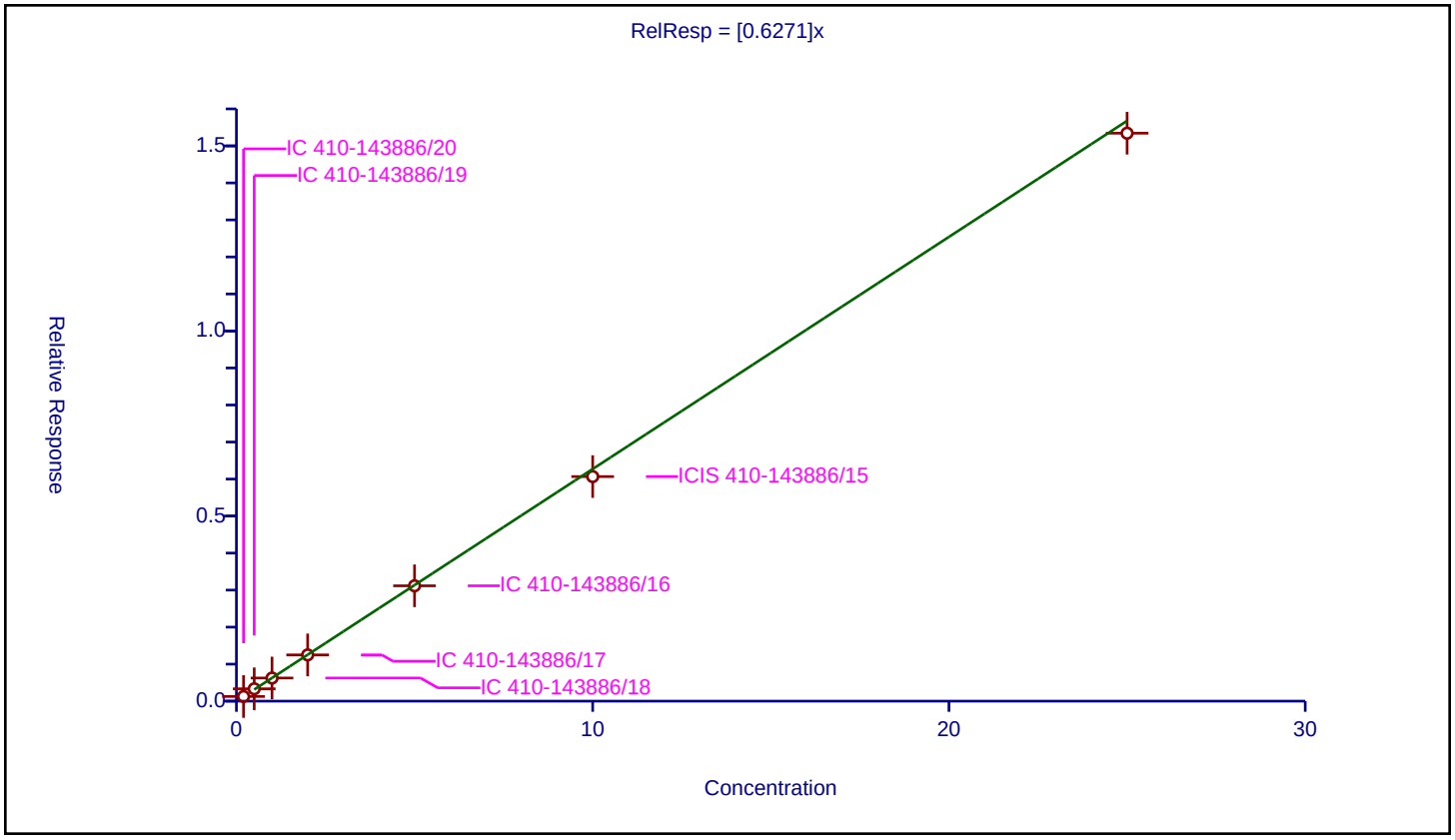
Curve Coefficients

Intercept:	0
Slope:	0.6271

Error Coefficients

Standard Error:	1580000
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 410-143886/20	0.2	0.12585	10.0	2324361.0	0.629248	Y
2	IC 410-143886/19	0.5	0.333585	10.0	2331162.0	0.667169	Y
3	IC 410-143886/18	1.0	0.624873	10.0	2375123.0	0.624873	Y
4	IC 410-143886/17	2.0	1.249482	10.0	2370175.0	0.624741	Y
5	IC 410-143886/16	5.0	3.116088	10.0	2376252.0	0.623218	Y
6	ICIS 410-143886/15	10.0	6.066473	10.0	2368765.0	0.606647	Y
7	IC 410-143886/14	25.0	15.34311	10.0	2283002.0	0.613724	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

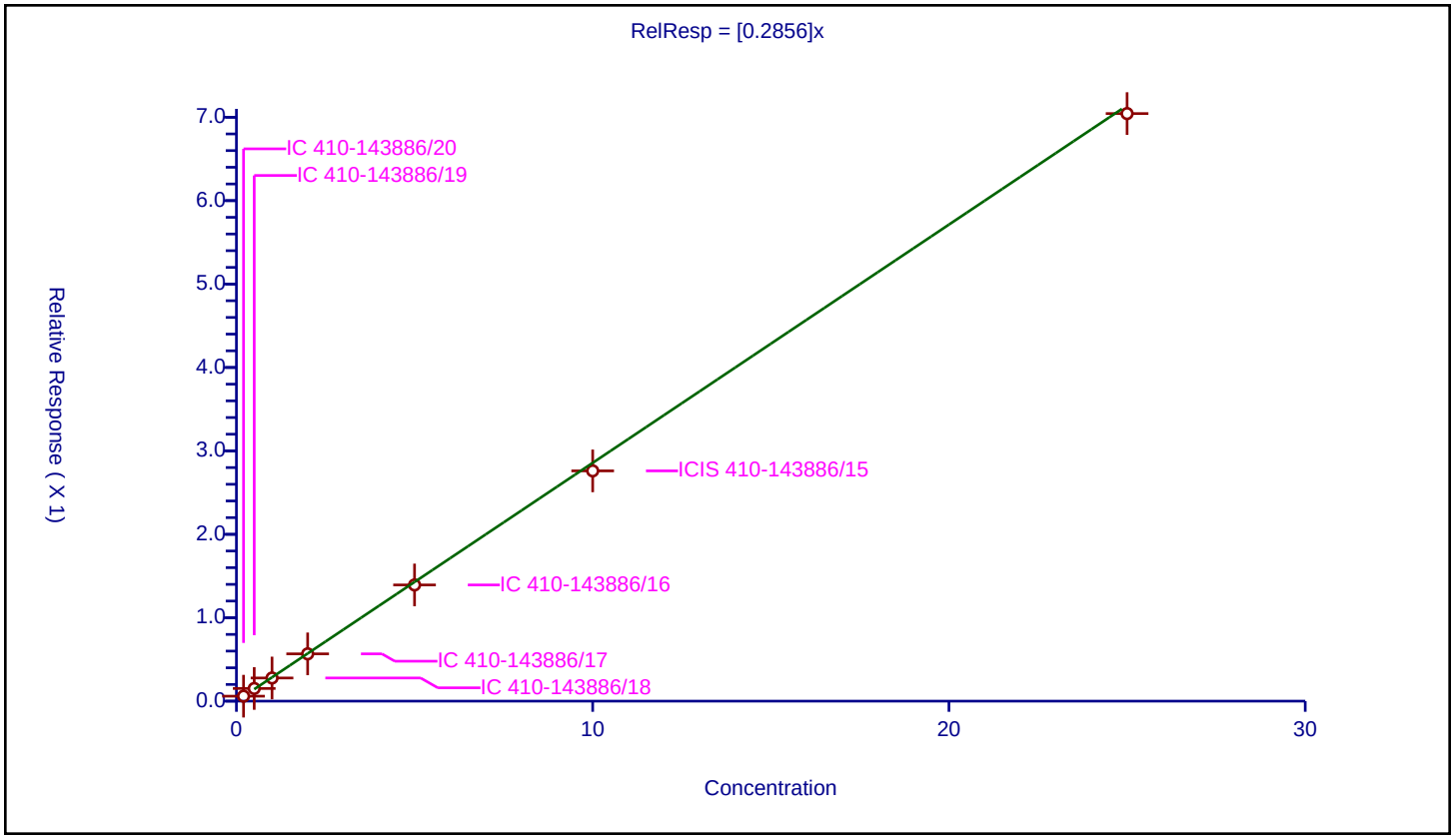
Curve Coefficients

Intercept:	0
Slope:	0.2856

Error Coefficients

Standard Error:	724000
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 410-143886/20	0.2	0.059599	10.0	2324361.0	0.297996	Y
2	IC 410-143886/19	0.5	0.151963	10.0	2331162.0	0.303926	Y
3	IC 410-143886/18	1.0	0.277682	10.0	2375123.0	0.277682	Y
4	IC 410-143886/17	2.0	0.56695	10.0	2370175.0	0.283475	Y
5	IC 410-143886/16	5.0	1.393064	10.0	2376252.0	0.278613	Y
6	ICIS 410-143886/15	10.0	2.760531	10.0	2368765.0	0.276053	Y
7	IC 410-143886/14	25.0	7.043857	10.0	2283002.0	0.281754	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

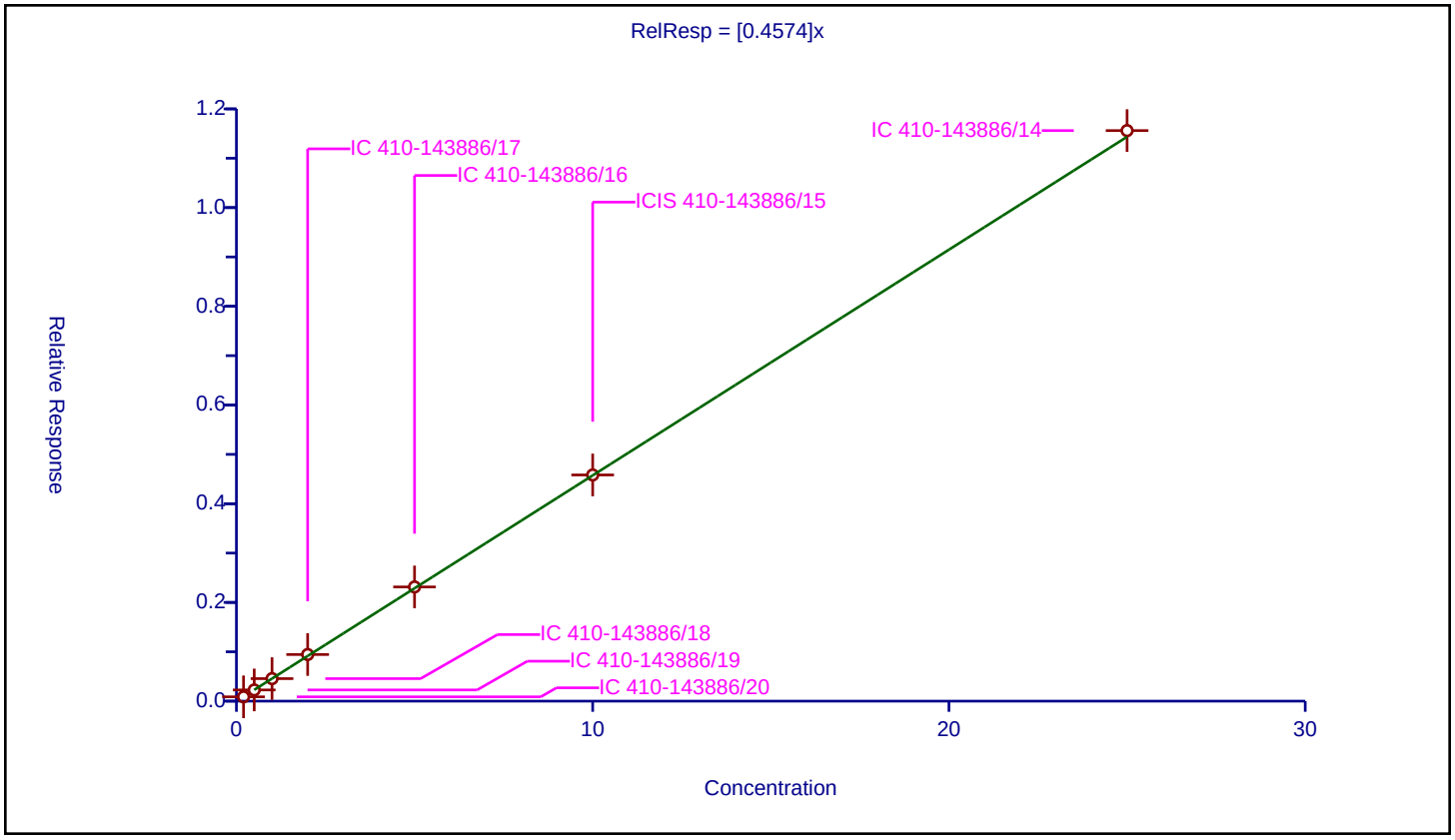
Curve Coefficients

Intercept:	0
Slope:	0.4574

Error Coefficients

Standard Error:	1190000
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 410-143886/20	0.2	0.087237	10.0	2324361.0	0.436184	Y
2	IC 410-143886/19	0.5	0.226831	10.0	2331162.0	0.453662	Y
3	IC 410-143886/18	1.0	0.456141	10.0	2375123.0	0.456141	Y
4	IC 410-143886/17	2.0	0.944496	10.0	2370175.0	0.472248	Y
5	IC 410-143886/16	5.0	2.313564	10.0	2376252.0	0.462713	Y
6	ICIS 410-143886/15	10.0	4.582793	10.0	2368765.0	0.458279	Y
7	IC 410-143886/14	25.0	11.560165	10.0	2283002.0	0.462407	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

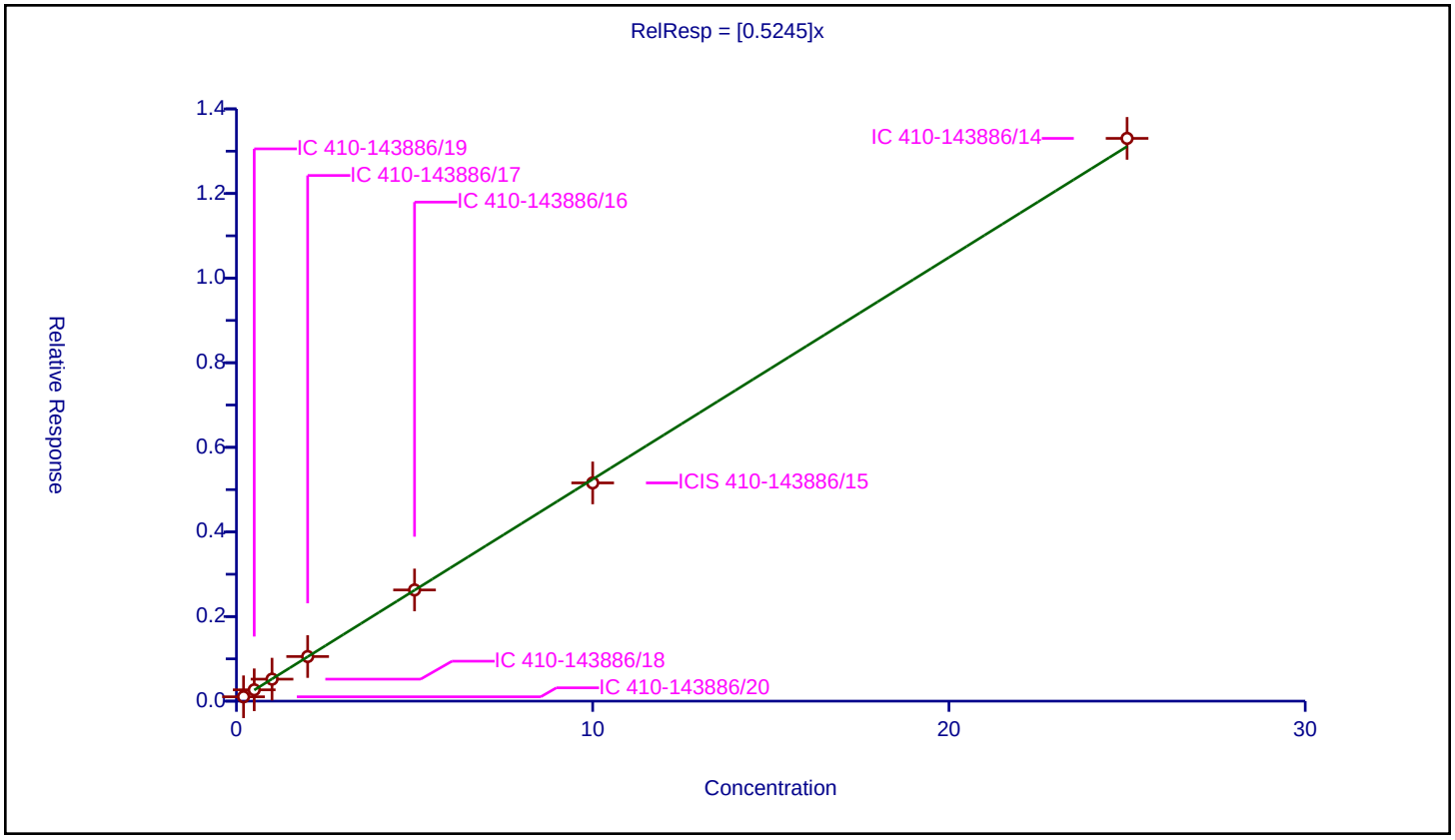
Curve Coefficients

Intercept:	0
Slope:	0.5245

Error Coefficients

Standard Error:	1370000
Relative Standard Error:	1.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	0.102854	10.0	2324361.0	0.51427	Y
2	IC 410-143886/19	0.5	0.268192	10.0	2331162.0	0.536385	Y
3	IC 410-143886/18	1.0	0.519956	10.0	2375123.0	0.519956	Y
4	IC 410-143886/17	2.0	1.054281	10.0	2370175.0	0.52714	Y
5	IC 410-143886/16	5.0	2.628412	10.0	2376252.0	0.525682	Y
6	ICIS 410-143886/15	10.0	5.158363	10.0	2368765.0	0.515836	Y
7	IC 410-143886/14	25.0	13.302927	10.0	2283002.0	0.532117	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

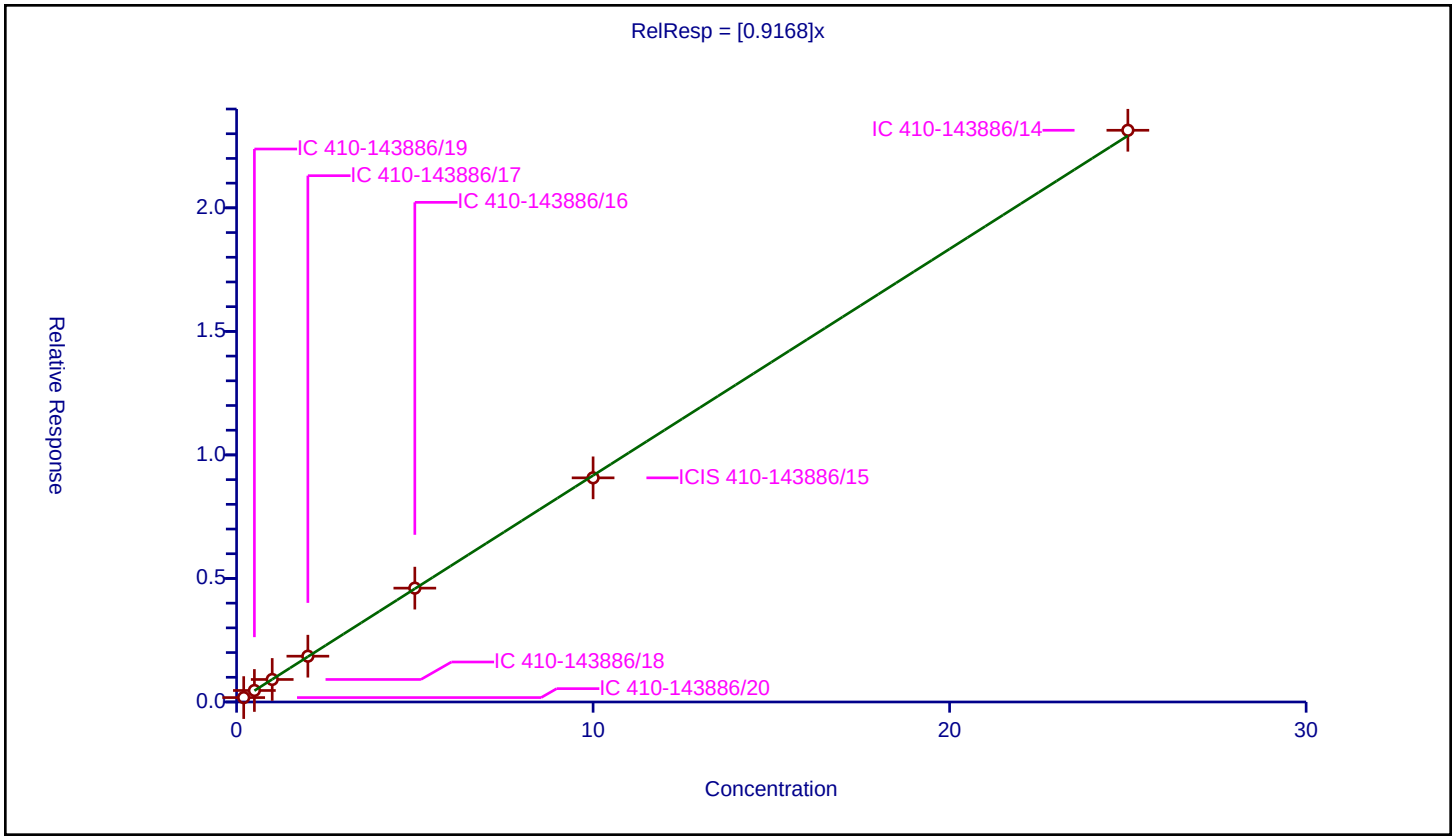
Curve Coefficients

Intercept:	0
Slope:	0.9168

Error Coefficients

Standard Error:	2380000
Relative Standard Error:	1.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	0.17857	10.0	2324361.0	0.892848	Y
2	IC 410-143886/19	0.5	0.466029	10.0	2331162.0	0.932059	Y
3	IC 410-143886/18	1.0	0.911473	10.0	2375123.0	0.911473	Y
4	IC 410-143886/17	2.0	1.853327	10.0	2370175.0	0.926664	Y
5	IC 410-143886/16	5.0	4.608421	10.0	2376252.0	0.921684	Y
6	ICIS 410-143886/15	10.0	9.072285	10.0	2368765.0	0.907228	Y
7	IC 410-143886/14	25.0	23.139599	10.0	2283002.0	0.925584	Y



Calibration / 2-Chloro-1,3-butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

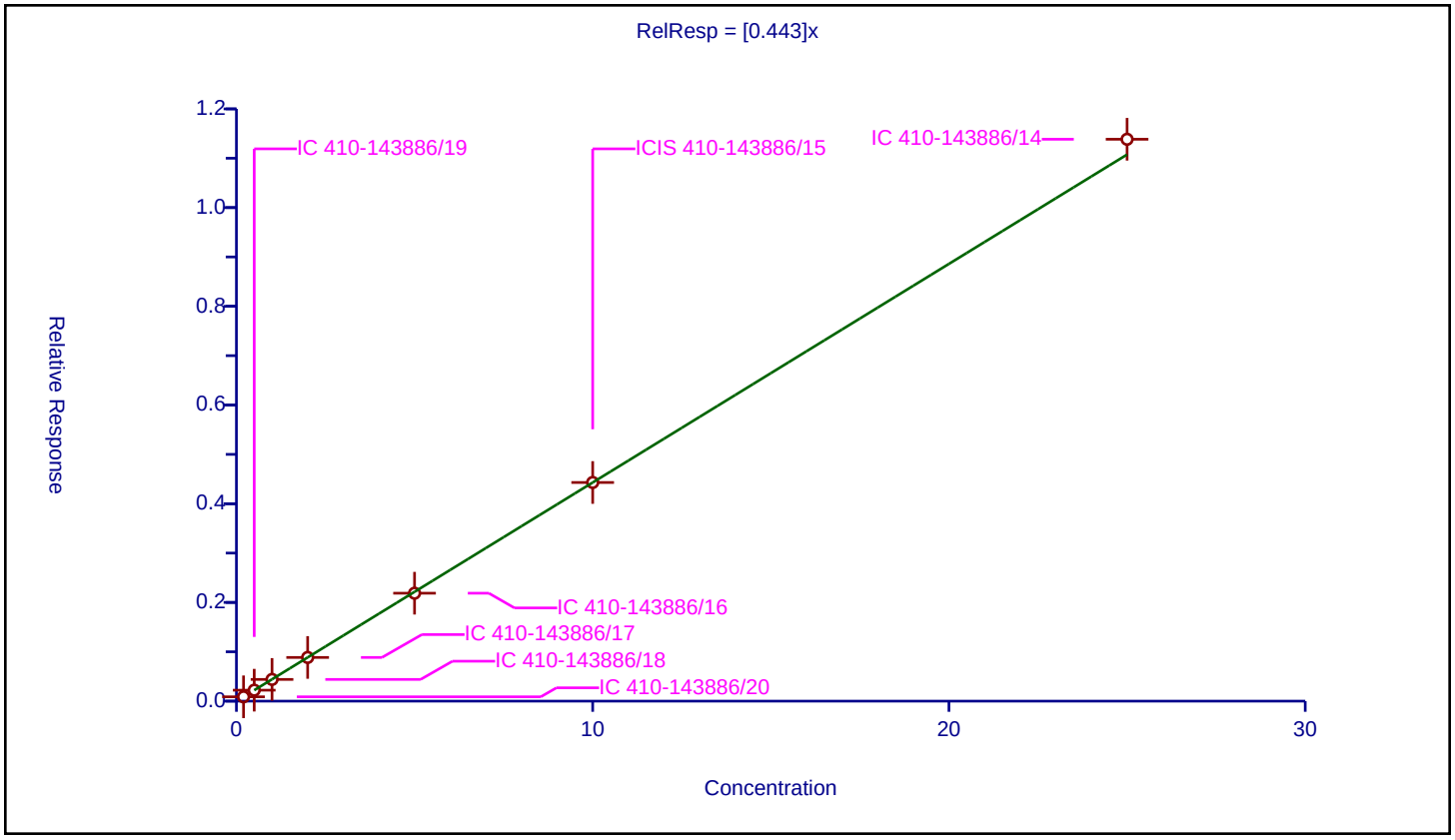
Curve Coefficients

Intercept:	0
Slope:	0.443

Error Coefficients

Standard Error:	1170000
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 410-143886/20	0.2	0.087637	10.0	2324361.0	0.438185	Y
2	IC 410-143886/19	0.5	0.222258	10.0	2331162.0	0.444517	Y
3	IC 410-143886/18	1.0	0.439851	10.0	2375123.0	0.439851	Y
4	IC 410-143886/17	2.0	0.885184	10.0	2370175.0	0.442592	Y
5	IC 410-143886/16	5.0	2.186936	10.0	2376252.0	0.437387	Y
6	ICIS 410-143886/15	10.0	4.43011	10.0	2368765.0	0.443011	Y
7	IC 410-143886/14	25.0	11.384524	10.0	2283002.0	0.455381	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

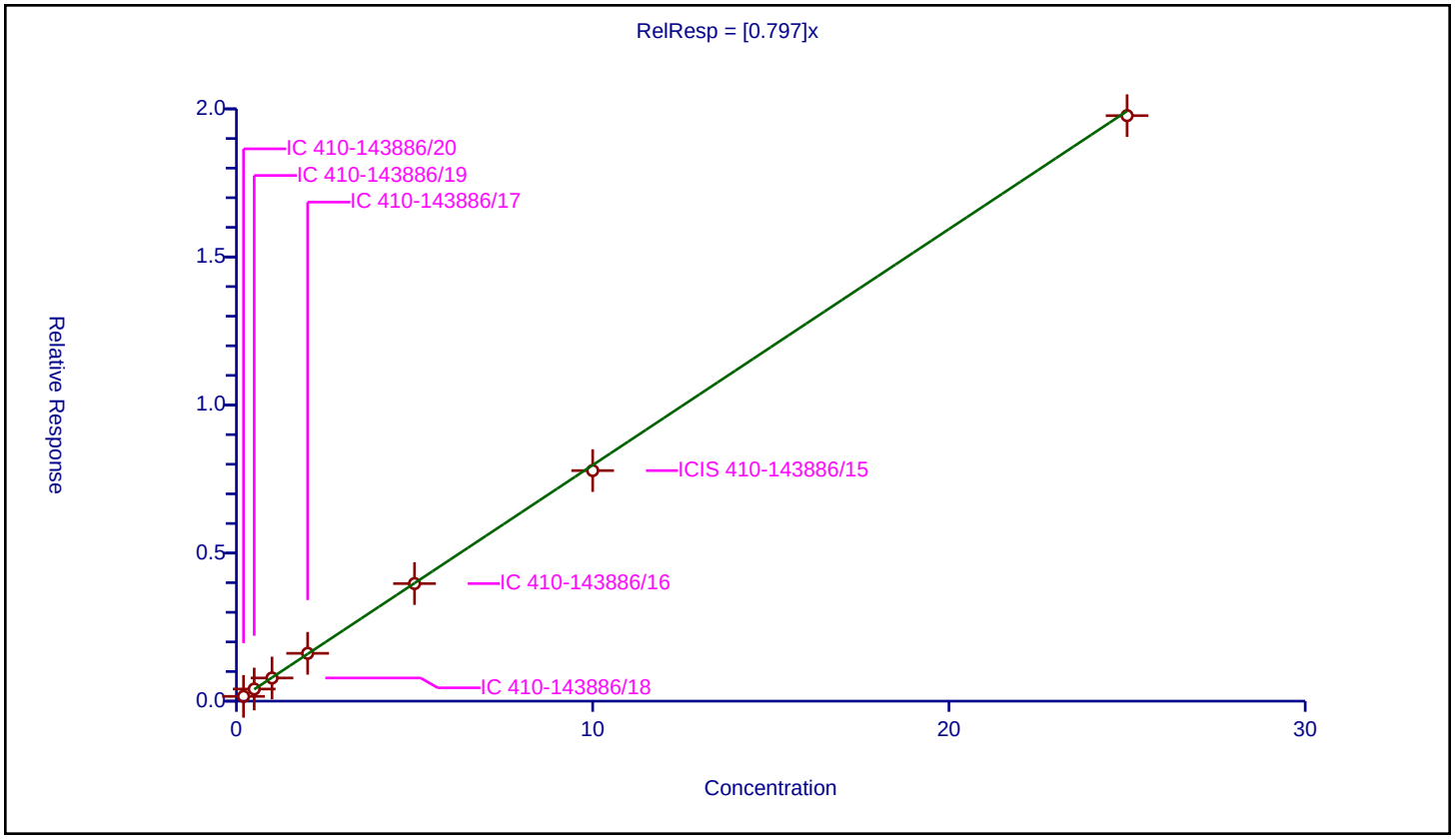
Curve Coefficients

Intercept:	0
Slope:	0.797

Error Coefficients

Standard Error:	2040000
Relative Standard Error:	1.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	0.161227	10.0	2324361.0	0.806136	Y
2	IC 410-143886/19	0.5	0.409706	10.0	2331162.0	0.819411	Y
3	IC 410-143886/18	1.0	0.782368	10.0	2375123.0	0.782368	Y
4	IC 410-143886/17	2.0	1.615193	10.0	2370175.0	0.807596	Y
5	IC 410-143886/16	5.0	3.97053	10.0	2376252.0	0.794106	Y
6	ICIS 410-143886/15	10.0	7.785563	10.0	2368765.0	0.778556	Y
7	IC 410-143886/14	25.0	19.771643	10.0	2283002.0	0.790866	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

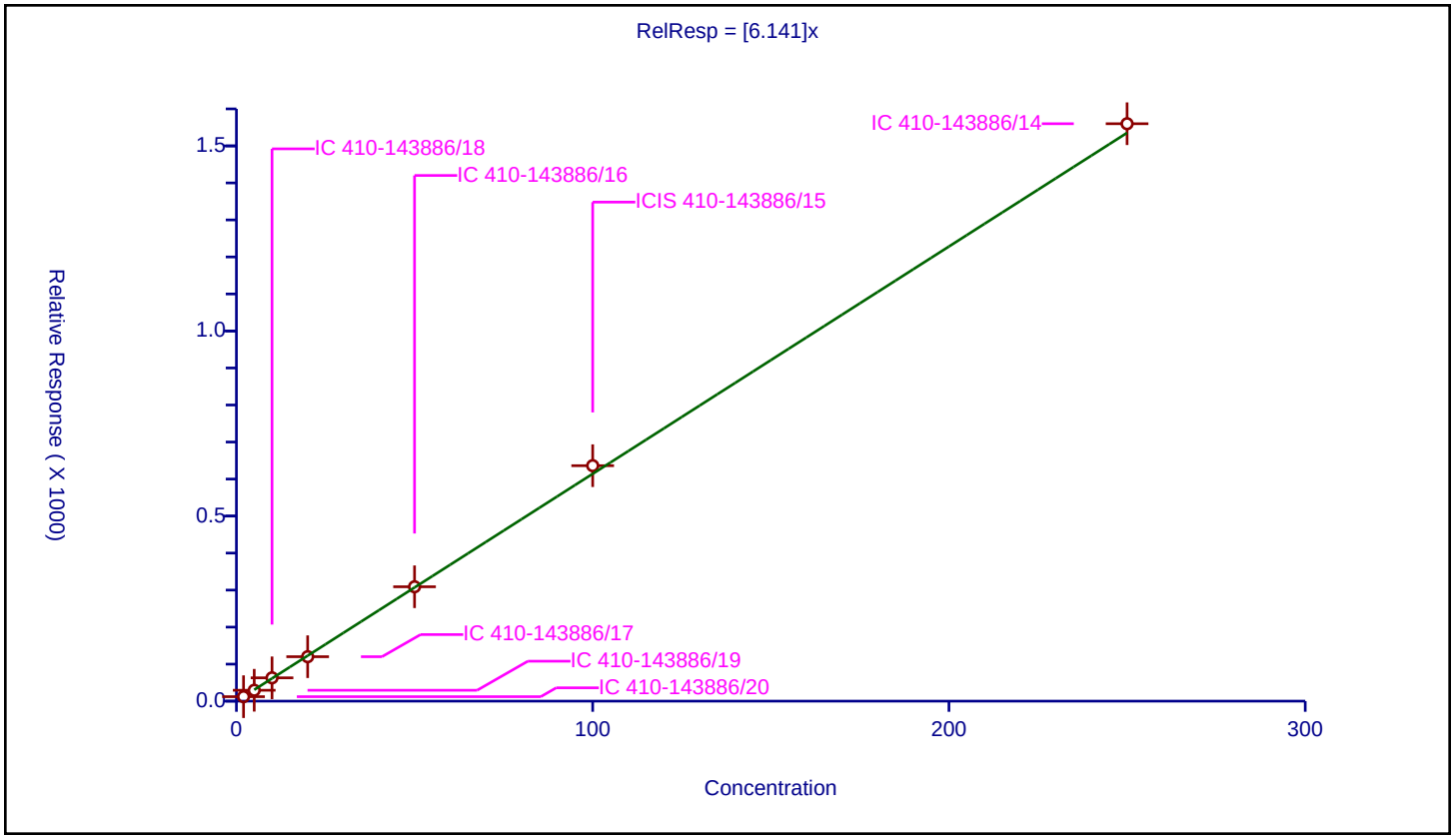
Curve Coefficients

Intercept:	0
Slope:	6.141

Error Coefficients

Standard Error:	1700000
Relative Standard Error:	2.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	2.0	12.050182	50.0	126301.0	6.025091	Y
2	IC 410-143886/19	5.0	29.382284	50.0	128101.0	5.876457	Y
3	IC 410-143886/18	10.0	63.029564	50.0	127180.0	6.302956	Y
4	IC 410-143886/17	20.0	120.066183	50.0	130548.0	6.003309	Y
5	IC 410-143886/16	50.0	308.988704	50.0	130308.0	6.179774	Y
6	ICIS 410-143886/15	100.0	636.128511	50.0	123880.0	6.361285	Y
7	IC 410-143886/14	250.0	1559.905276	50.0	120244.0	6.239621	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

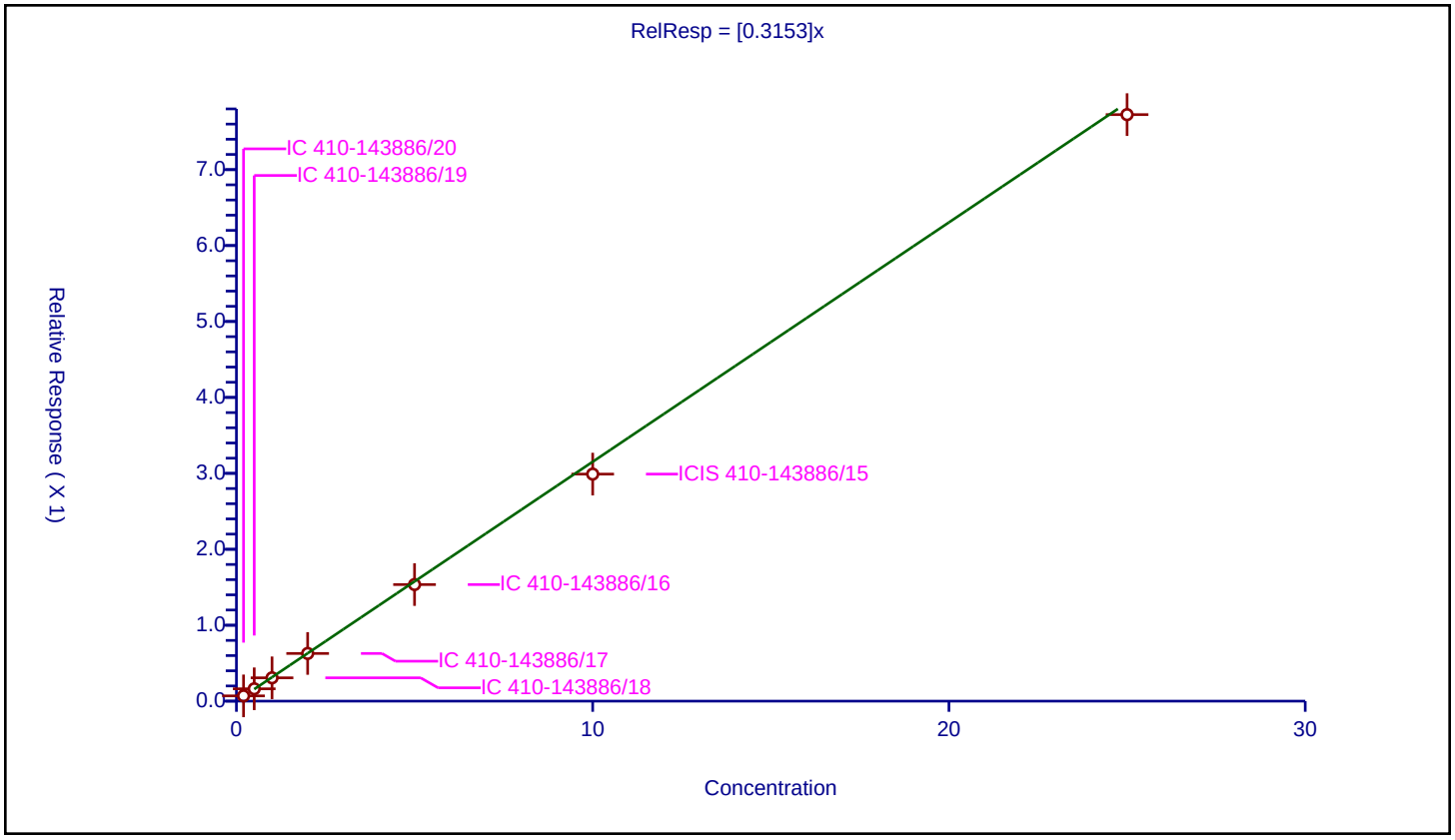
Curve Coefficients

Intercept:	0
Slope:	0.3153

Error Coefficients

Standard Error:	793000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	0.069129	10.0	2324361.0	0.345643	Y
2	IC 410-143886/19	0.5	0.162447	10.0	2331162.0	0.324894	Y
3	IC 410-143886/18	1.0	0.307218	10.0	2375123.0	0.307218	Y
4	IC 410-143886/17	2.0	0.627975	10.0	2370175.0	0.313987	Y
5	IC 410-143886/16	5.0	1.53538	10.0	2376252.0	0.307076	Y
6	ICIS 410-143886/15	10.0	2.990031	10.0	2368765.0	0.299003	Y
7	IC 410-143886/14	25.0	7.724606	10.0	2283002.0	0.308984	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

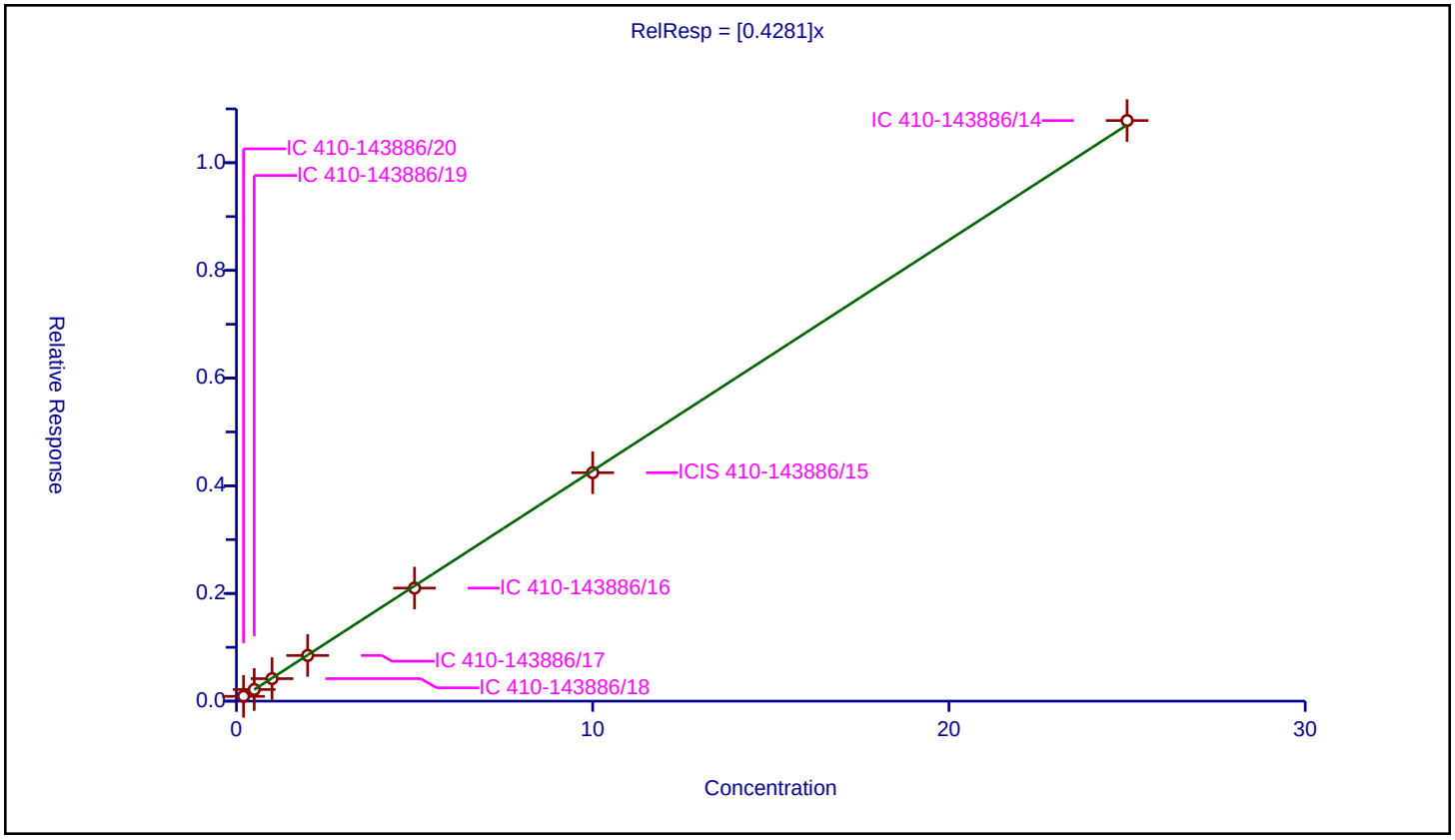
Curve Coefficients

Intercept:	0
Slope:	0.4281

Error Coefficients

Standard Error:	1110000
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 410-143886/20	0.2	0.089328	10.0	2324361.0	0.446639	Y
2	IC 410-143886/19	0.5	0.216416	10.0	2331162.0	0.432831	Y
3	IC 410-143886/18	1.0	0.417726	10.0	2375123.0	0.417726	Y
4	IC 410-143886/17	2.0	0.848153	10.0	2370175.0	0.424076	Y
5	IC 410-143886/16	5.0	2.099849	10.0	2376252.0	0.41997	Y
6	ICIS 410-143886/15	10.0	4.243055	10.0	2368765.0	0.424305	Y
7	IC 410-143886/14	25.0	10.783539	10.0	2283002.0	0.431342	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

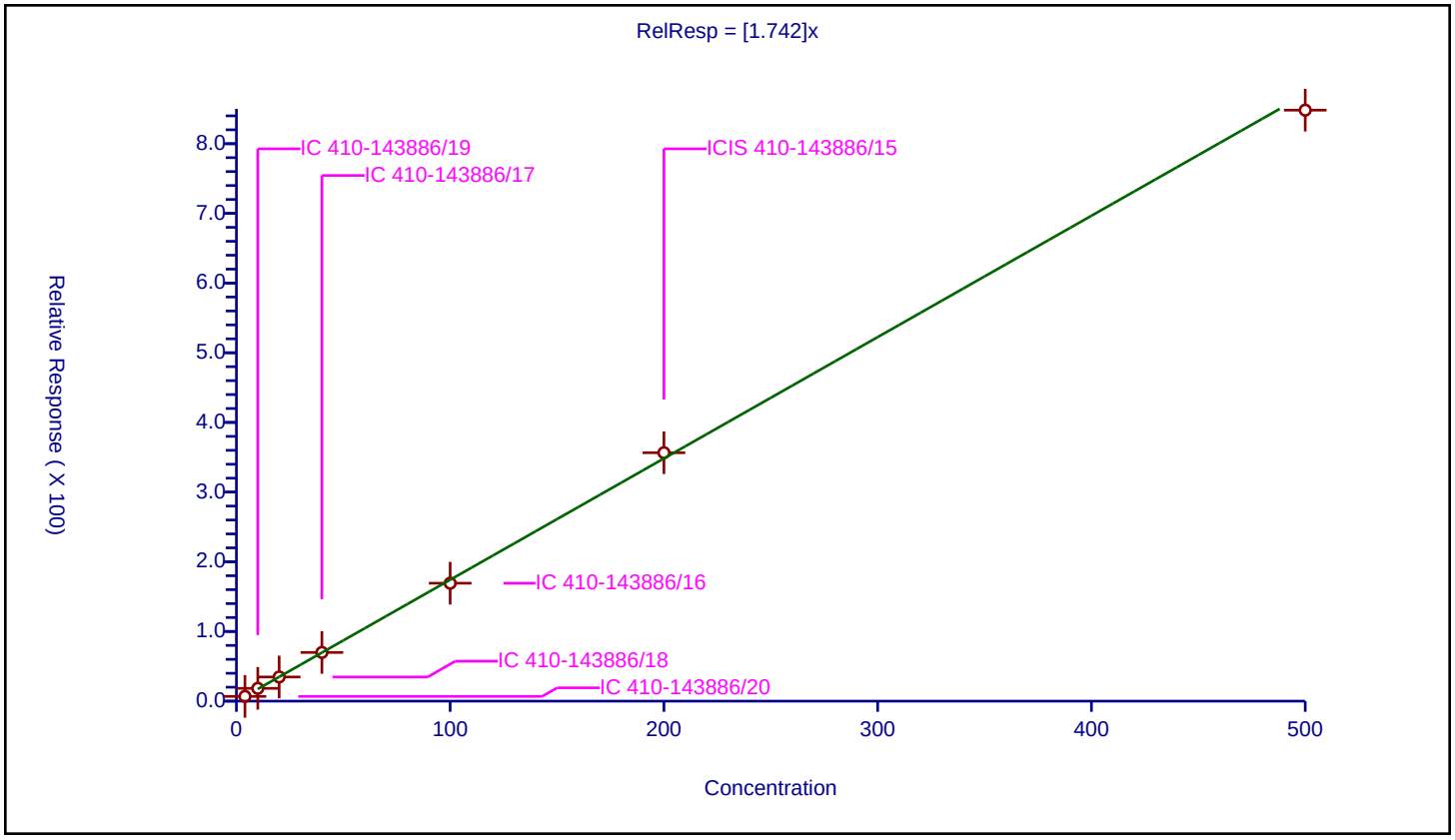
Curve Coefficients

Intercept:	0
Slope:	1.742

Error Coefficients

Standard Error:	929000
Relative Standard Error:	3.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	4.0	6.806359	50.0	126301.0	1.70159	Y
2	IC 410-143886/19	10.0	18.350754	50.0	128101.0	1.835075	Y
3	IC 410-143886/18	20.0	34.708287	50.0	127180.0	1.735414	Y
4	IC 410-143886/17	40.0	69.896513	50.0	130548.0	1.747413	Y
5	IC 410-143886/16	100.0	169.265509	50.0	130308.0	1.692655	Y
6	ICIS 410-143886/15	200.0	356.532935	50.0	123880.0	1.782665	Y
7	IC 410-143886/14	500.0	848.162486	50.0	120244.0	1.696325	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

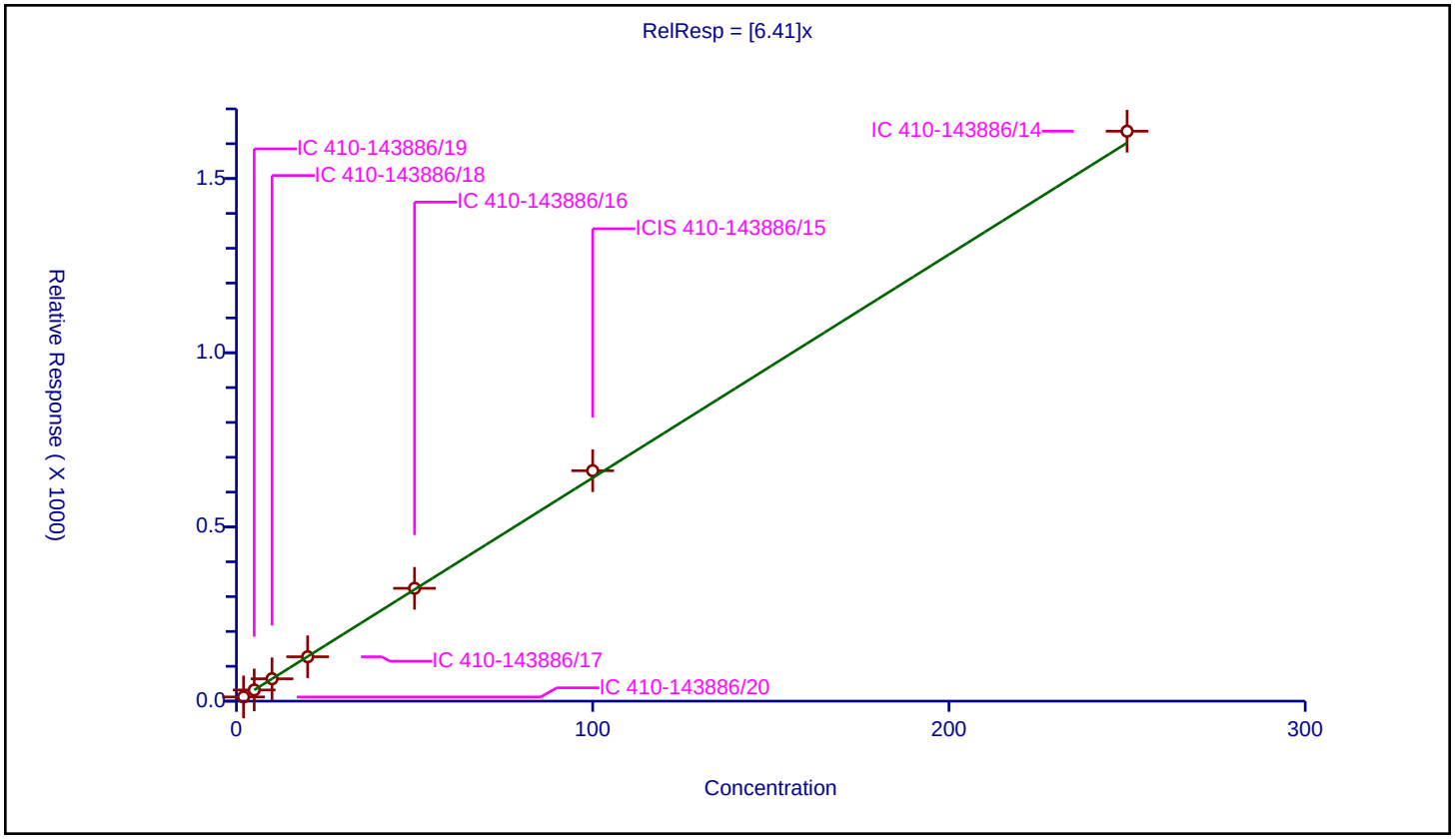
Curve Coefficients

Intercept:	0
Slope:	6.41

Error Coefficients

Standard Error:	1780000
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 410-143886/20	2.0	12.058495	50.0	126301.0	6.029248	Y
2	IC 410-143886/19	5.0	32.091084	50.0	128101.0	6.418217	Y
3	IC 410-143886/18	10.0	64.188552	50.0	127180.0	6.418855	Y
4	IC 410-143886/17	20.0	127.382266	50.0	130548.0	6.369113	Y
5	IC 410-143886/16	50.0	323.891473	50.0	130308.0	6.477829	Y
6	ICIS 410-143886/15	100.0	661.465531	50.0	123880.0	6.614655	Y
7	IC 410-143886/14	250.0	1635.936097	50.0	120244.0	6.543744	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

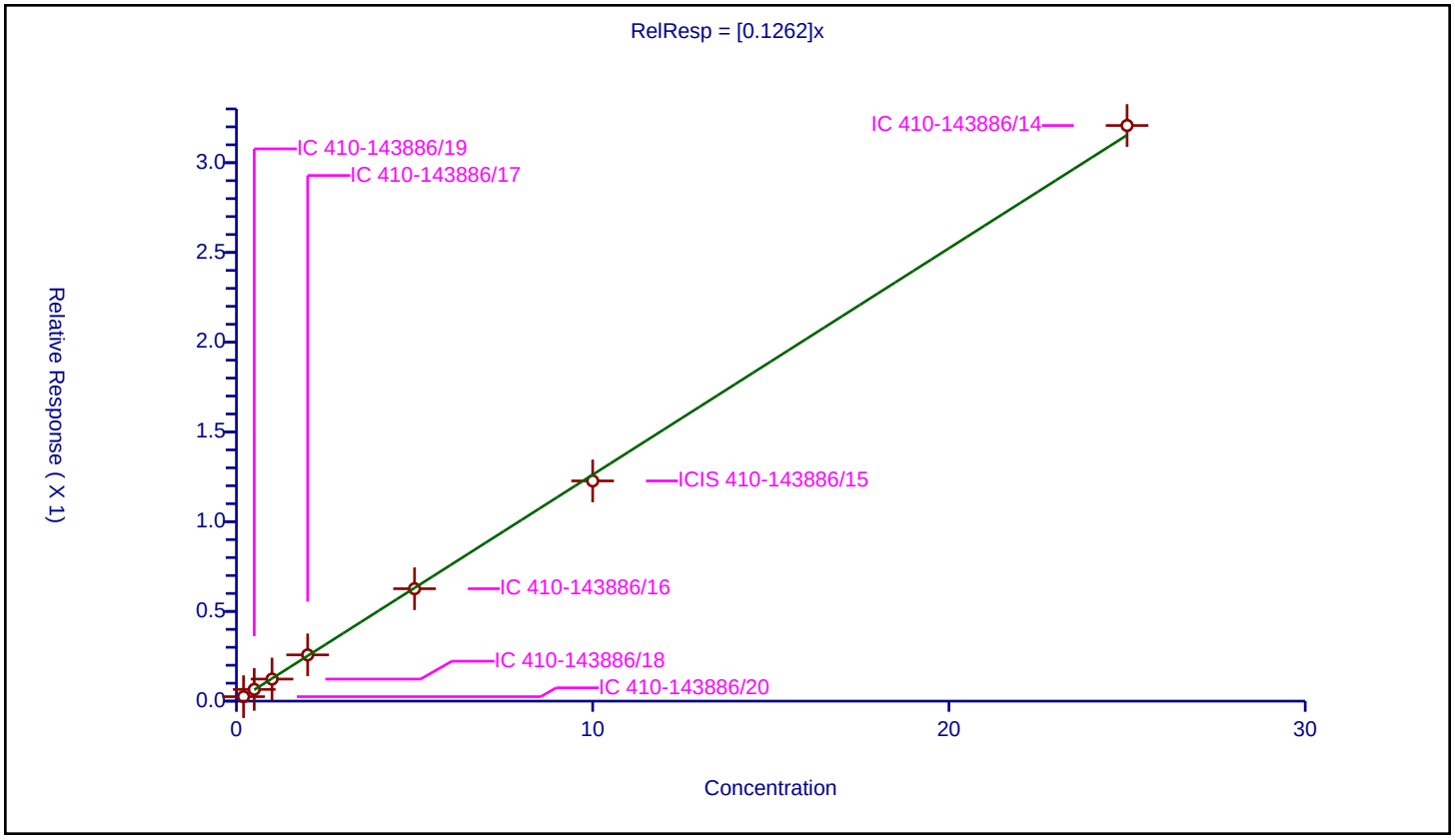
Curve Coefficients

Intercept:	0
Slope:	0.1262

Error Coefficients

Standard Error:	329000
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 410-143886/20	0.2	0.024867	10.0	2324361.0	0.124335	Y
2	IC 410-143886/19	0.5	0.065388	10.0	2331162.0	0.130776	Y
3	IC 410-143886/18	1.0	0.122916	10.0	2375123.0	0.122916	Y
4	IC 410-143886/17	2.0	0.257702	10.0	2370175.0	0.128851	Y
5	IC 410-143886/16	5.0	0.626381	10.0	2376252.0	0.125276	Y
6	ICIS 410-143886/15	10.0	1.22704	10.0	2368765.0	0.122704	Y
7	IC 410-143886/14	25.0	3.207536	10.0	2283002.0	0.128301	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

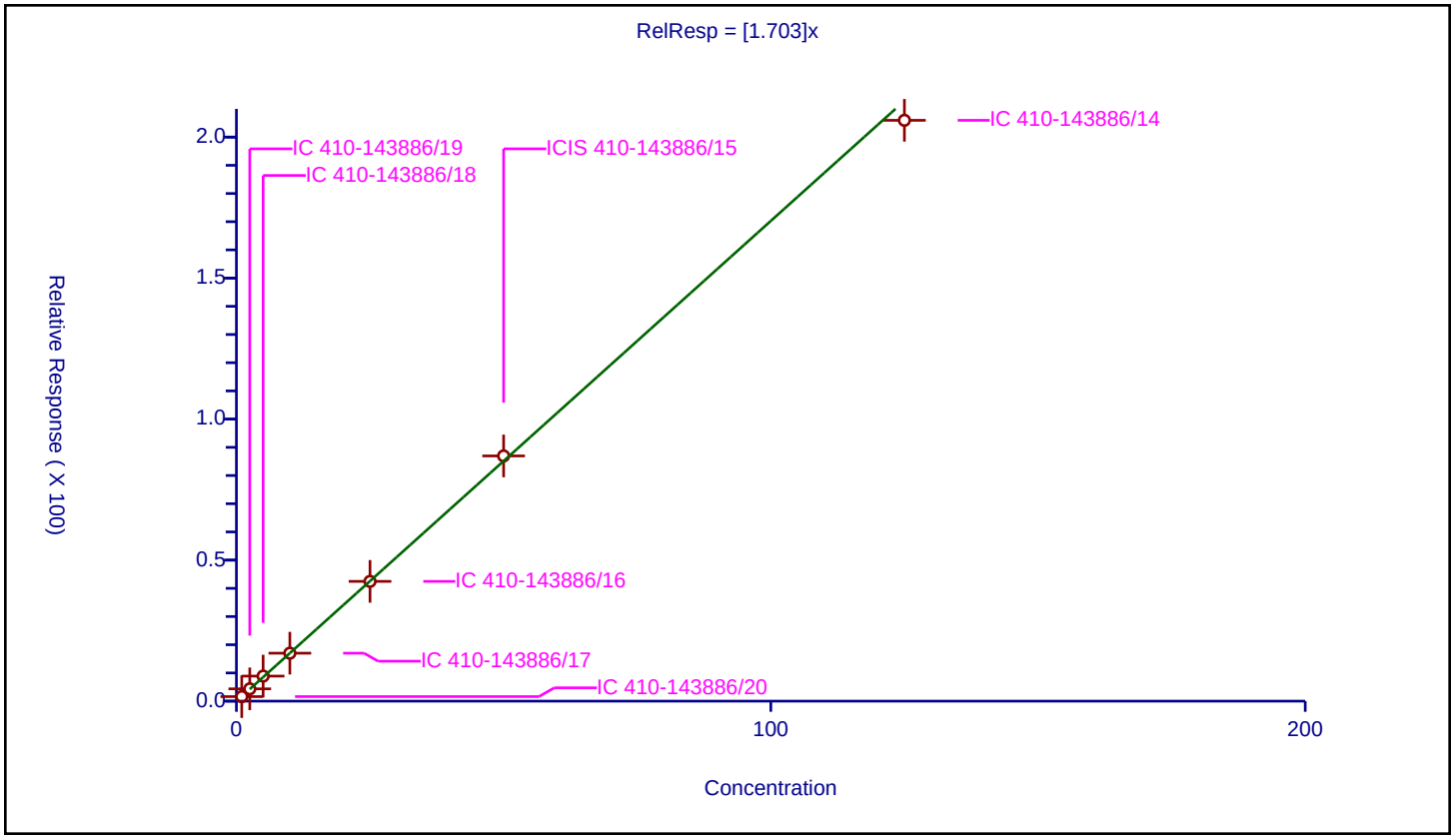
Curve Coefficients

Intercept:	0
Slope:	1.703

Error Coefficients

Standard Error:	226000
Relative Standard Error:	3.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	1.0	1.614397	50.0	126301.0	1.614397	Y
2	IC 410-143886/19	2.5	4.35906	50.0	128101.0	1.743624	Y
3	IC 410-143886/18	5.0	8.879541	50.0	127180.0	1.775908	Y
4	IC 410-143886/17	10.0	17.004856	50.0	130548.0	1.700486	Y
5	IC 410-143886/16	25.0	42.460939	50.0	130308.0	1.698438	Y
6	ICIS 410-143886/15	50.0	86.940991	50.0	123880.0	1.73882	Y
7	IC 410-143886/14	125.0	205.945827	50.0	120244.0	1.647567	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

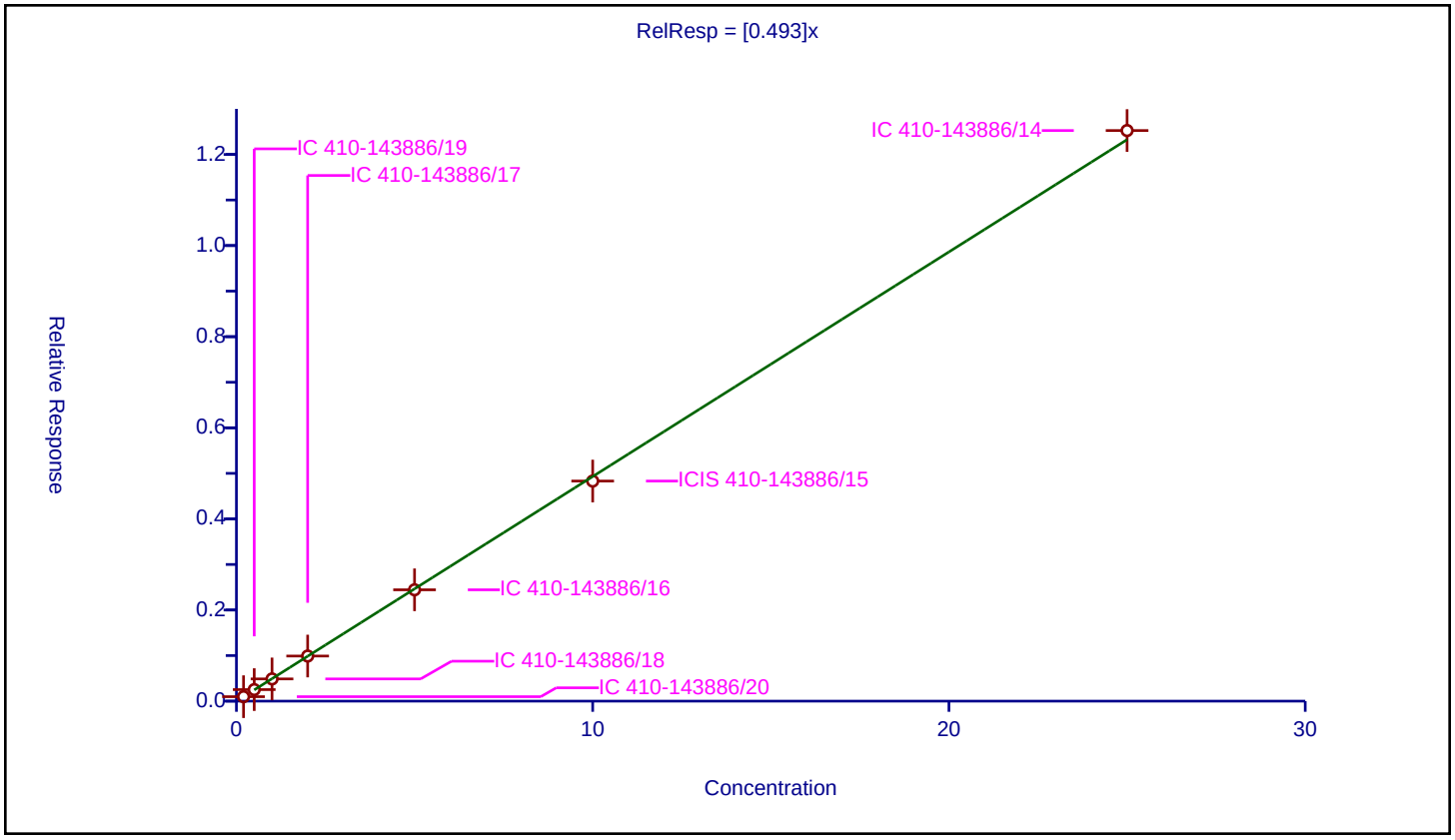
Curve Coefficients

Intercept:	0
Slope:	0.493

Error Coefficients

Standard Error:	1280000
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 410-143886/20	0.2	0.097717	10.0	2324361.0	0.488586	Y
2	IC 410-143886/19	0.5	0.253427	10.0	2331162.0	0.506855	Y
3	IC 410-143886/18	1.0	0.487806	10.0	2375123.0	0.487806	Y
4	IC 410-143886/17	2.0	0.990176	10.0	2370175.0	0.495088	Y
5	IC 410-143886/16	5.0	2.443773	10.0	2376252.0	0.488755	Y
6	ICIS 410-143886/15	10.0	4.830745	10.0	2368765.0	0.483075	Y
7	IC 410-143886/14	25.0	12.524978	10.0	2283002.0	0.500999	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

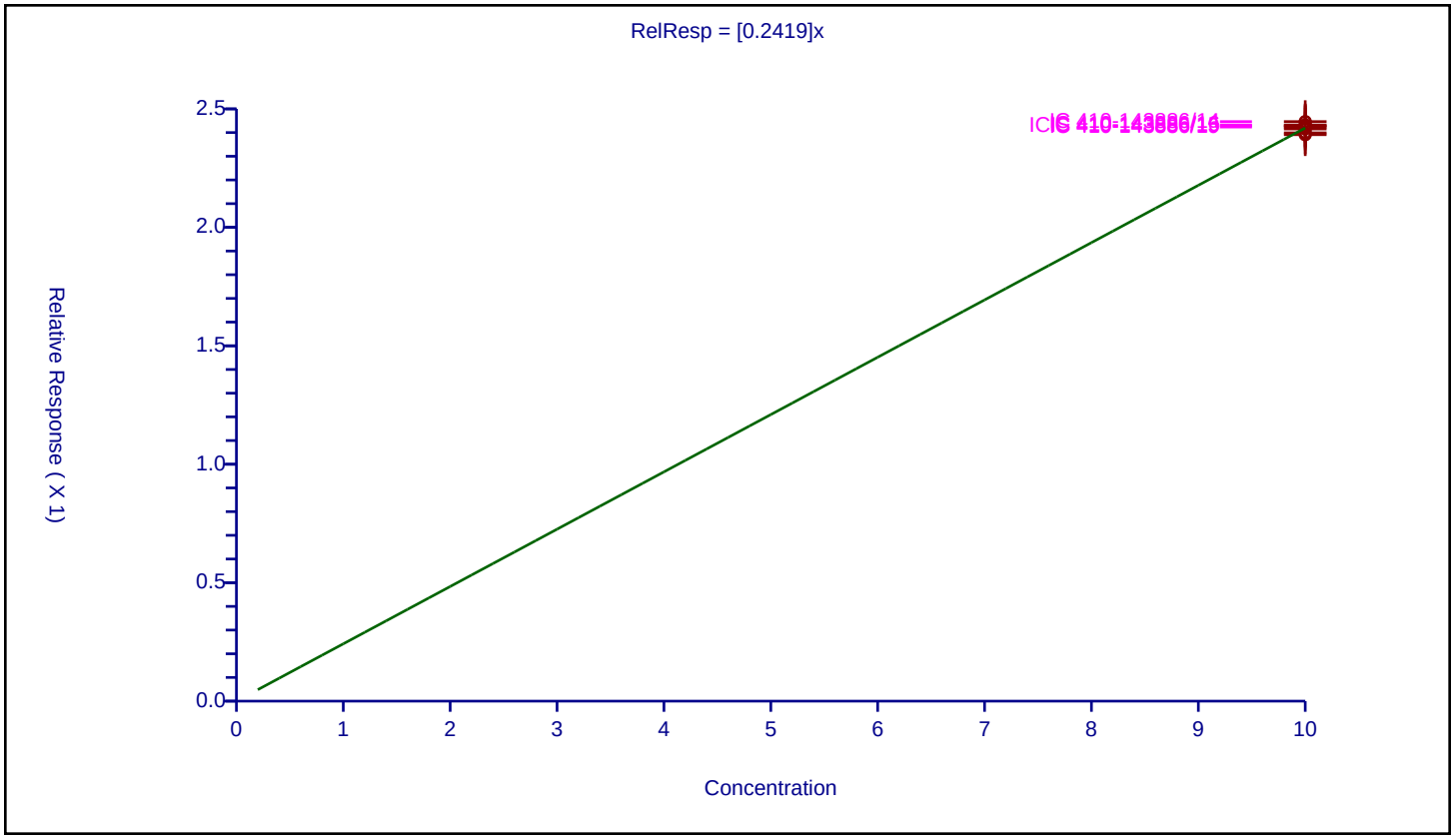
Curve Coefficients

Intercept:	0
Slope:	0.2419

Error Coefficients

Standard Error:	613000
Relative Standard Error:	0.8
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0.000000000000000111

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/14	10.0	2.446349	10.0	2283002.0	0.244635	Y
2	ICIS 410-143886/15	10.0	2.428371	10.0	2368765.0	0.242837	Y
3	IC 410-143886/16	10.0	2.432187	10.0	2376252.0	0.243219	Y
4	IC 410-143886/17	10.0	2.391005	10.0	2370175.0	0.2391	Y
5	IC 410-143886/18	10.0	2.398912	10.0	2375123.0	0.239891	Y
6	IC 410-143886/19	10.0	2.423388	10.0	2331162.0	0.242339	Y
7	IC 410-143886/20	10.0	2.415236	10.0	2324361.0	0.241524	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

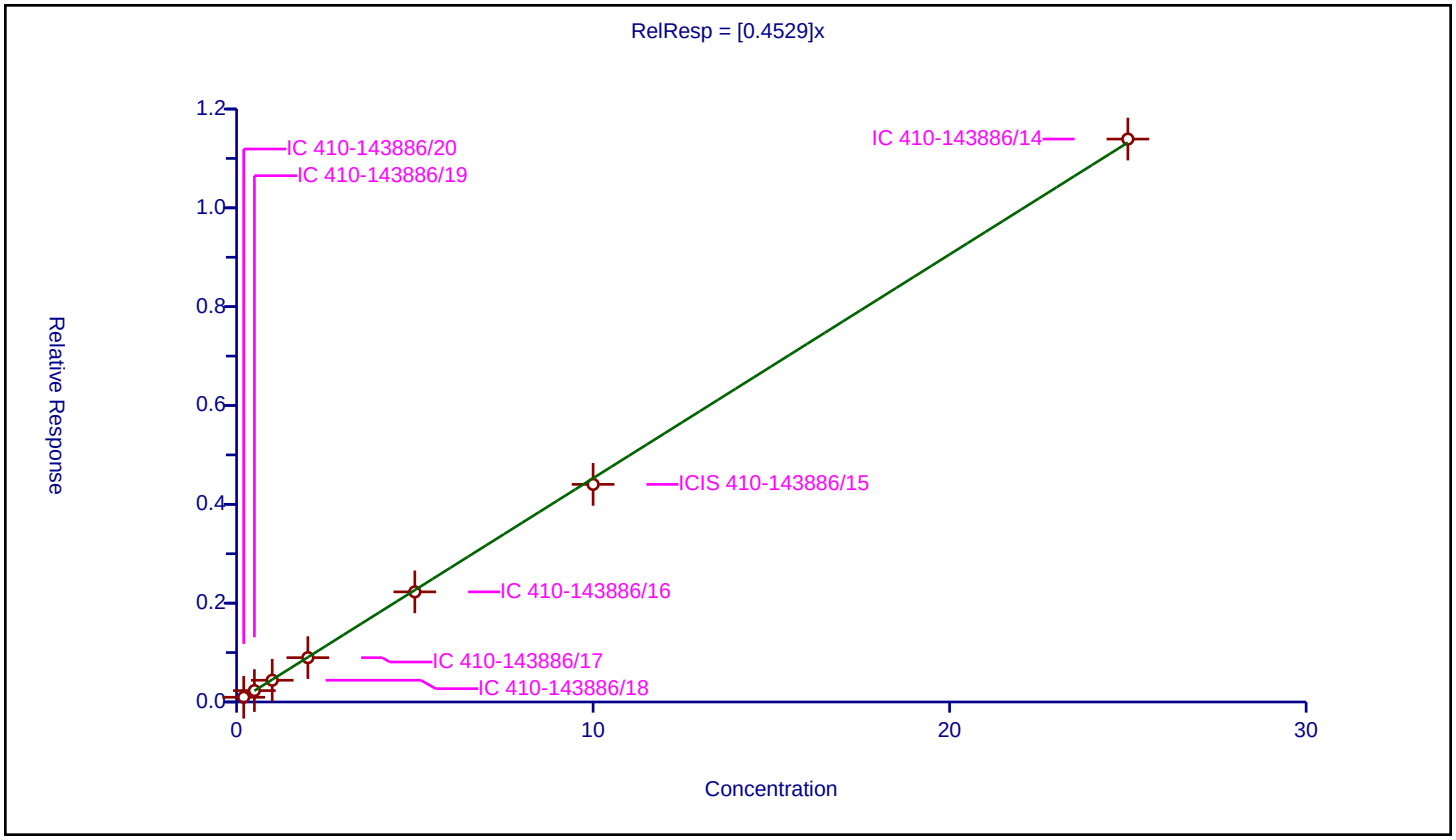
Curve Coefficients

Intercept:	0
Slope:	0.4529

Error Coefficients

Standard Error:	1170000
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 410-143886/20	0.2	0.095596	10.0	2324361.0	0.477981	Y
2	IC 410-143886/19	0.5	0.230945	10.0	2331162.0	0.46189	Y
3	IC 410-143886/18	1.0	0.439901	10.0	2375123.0	0.439901	Y
4	IC 410-143886/17	2.0	0.89693	10.0	2370175.0	0.448465	Y
5	IC 410-143886/16	5.0	2.228421	10.0	2376252.0	0.445684	Y
6	ICIS 410-143886/15	10.0	4.403607	10.0	2368765.0	0.440361	Y
7	IC 410-143886/14	25.0	11.392018	10.0	2283002.0	0.455681	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

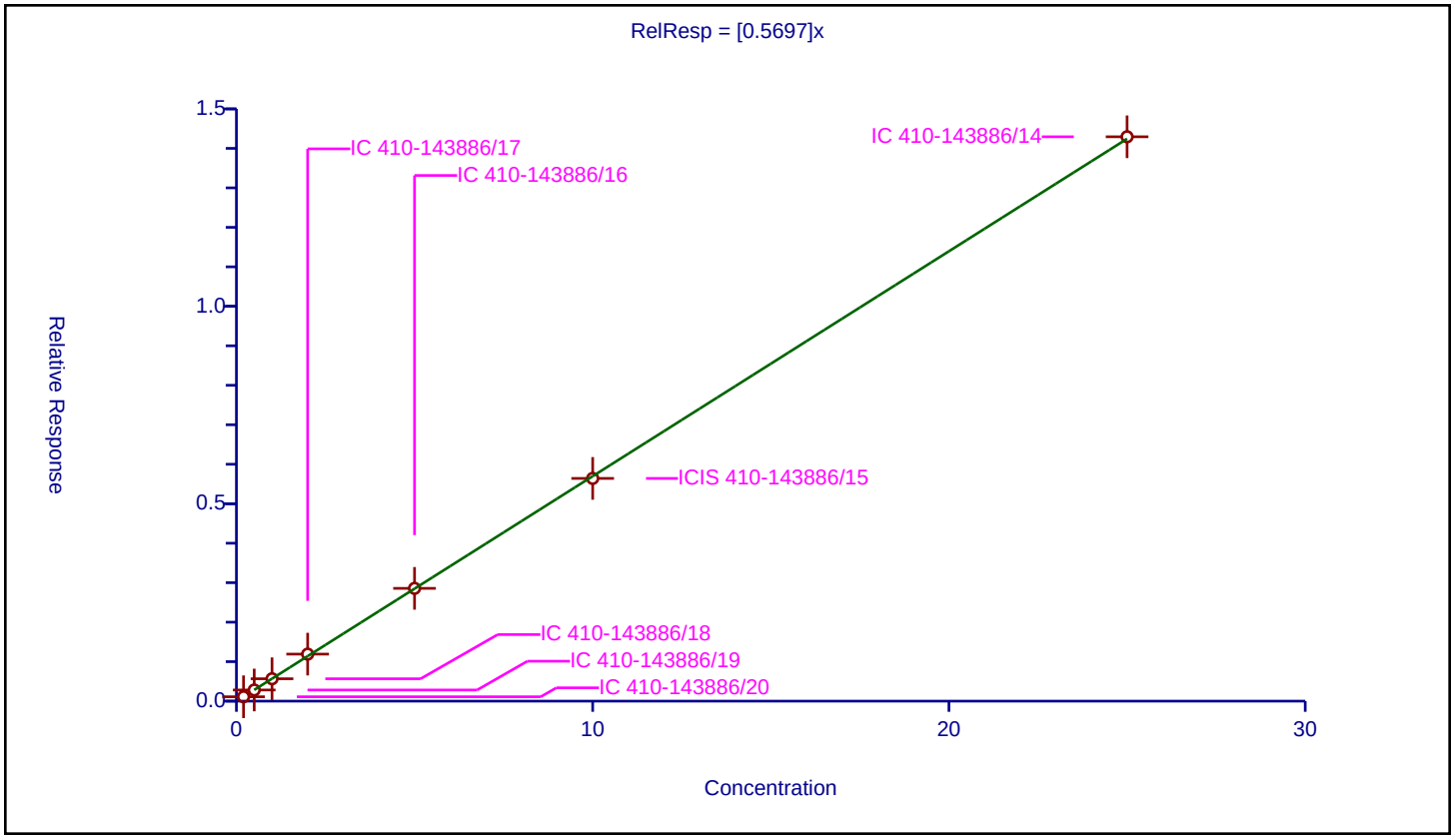
Curve Coefficients

Intercept:	0
Slope:	0.5697

Error Coefficients

Standard Error:	1470000
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 410-143886/20	0.2	0.110779	10.0	2324361.0	0.553894	Y
2	IC 410-143886/19	0.5	0.28219	10.0	2331162.0	0.564379	Y
3	IC 410-143886/18	1.0	0.567259	10.0	2375123.0	0.567259	Y
4	IC 410-143886/17	2.0	1.190748	10.0	2370175.0	0.595374	Y
5	IC 410-143886/16	5.0	2.856435	10.0	2376252.0	0.571287	Y
6	ICIS 410-143886/15	10.0	5.640762	10.0	2368765.0	0.564076	Y
7	IC 410-143886/14	25.0	14.293588	10.0	2283002.0	0.571744	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

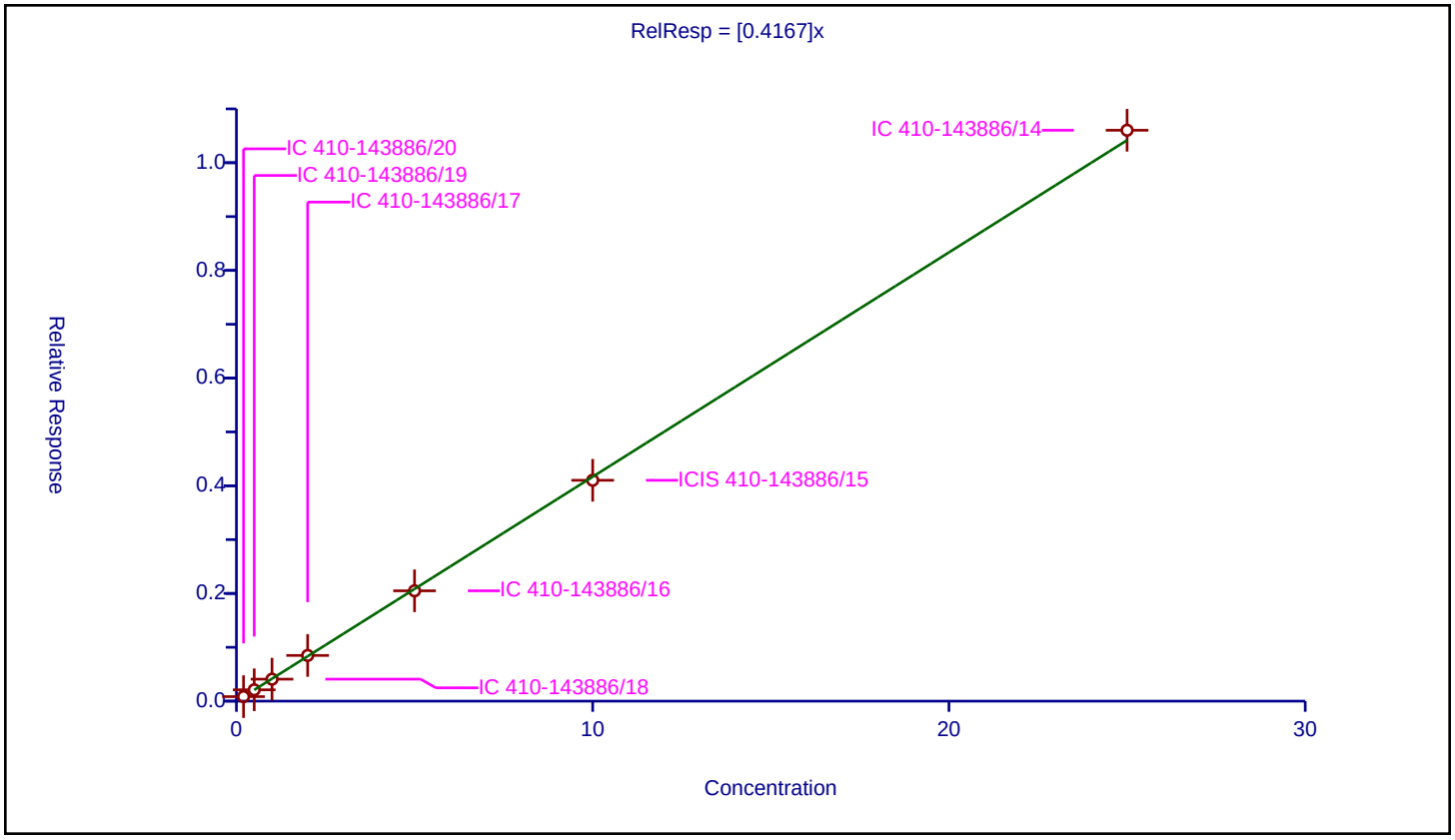
Curve Coefficients

Intercept:	0
Slope:	0.4167

Error Coefficients

Standard Error:	1090000
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 410-143886/20	0.2	0.083941	10.0	2324361.0	0.419707	Y
2	IC 410-143886/19	0.5	0.210294	10.0	2331162.0	0.420589	Y
3	IC 410-143886/18	1.0	0.408114	10.0	2375123.0	0.408114	Y
4	IC 410-143886/17	2.0	0.848828	10.0	2370175.0	0.424414	Y
5	IC 410-143886/16	5.0	2.049345	10.0	2376252.0	0.409869	Y
6	ICIS 410-143886/15	10.0	4.102349	10.0	2368765.0	0.410235	Y
7	IC 410-143886/14	25.0	10.603482	10.0	2283002.0	0.424139	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

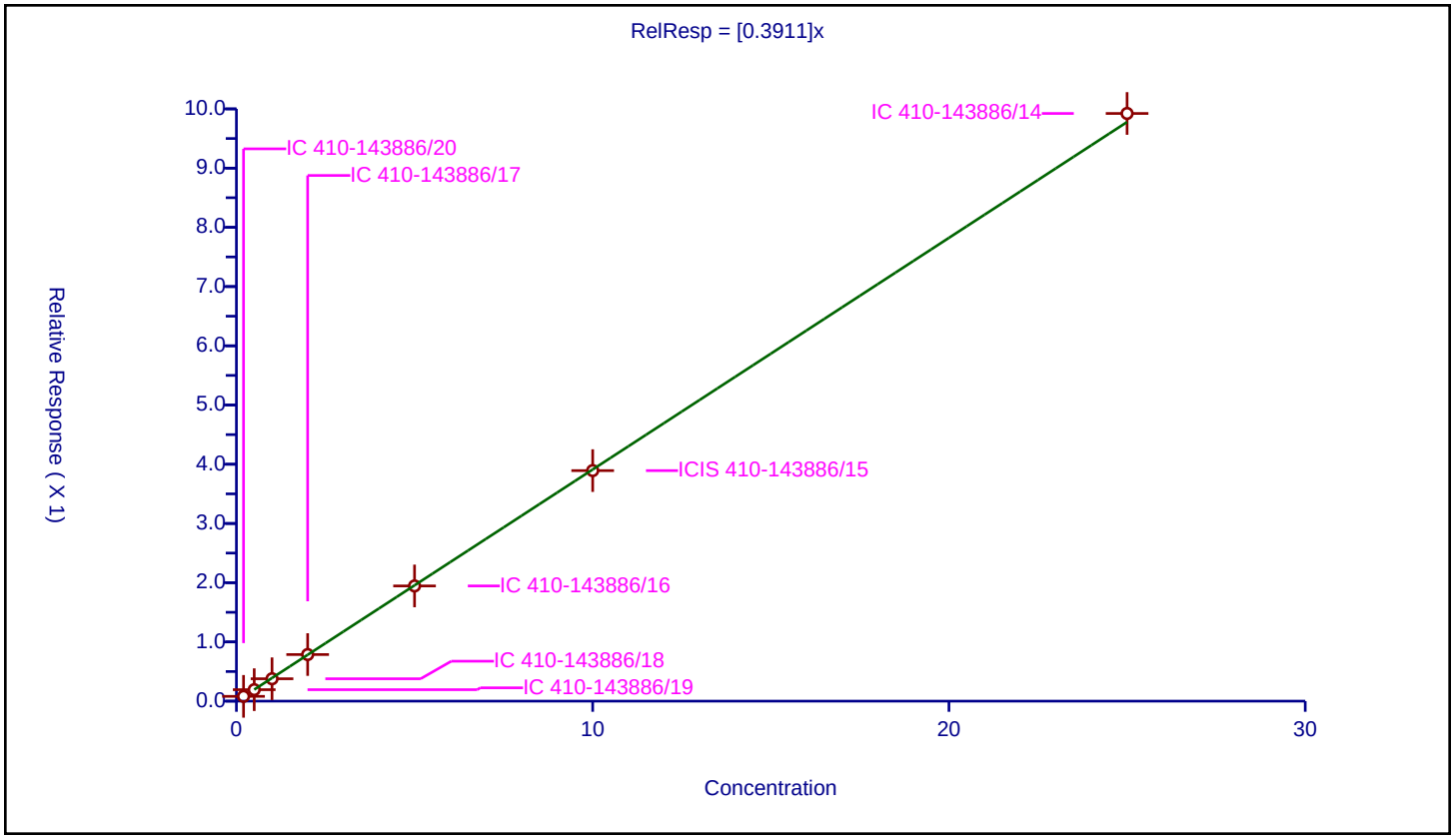
Curve Coefficients

Intercept:	0
Slope:	0.3911

Error Coefficients

Standard Error:	1020000
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 410-143886/20	0.2	0.080882	10.0	2324361.0	0.404412	Y
2	IC 410-143886/19	0.5	0.193479	10.0	2331162.0	0.386957	Y
3	IC 410-143886/18	1.0	0.377913	10.0	2375123.0	0.377913	Y
4	IC 410-143886/17	2.0	0.786651	10.0	2370175.0	0.393325	Y
5	IC 410-143886/16	5.0	1.945353	10.0	2376252.0	0.389071	Y
6	ICIS 410-143886/15	10.0	3.892539	10.0	2368765.0	0.389254	Y
7	IC 410-143886/14	25.0	9.922738	10.0	2283002.0	0.39691	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

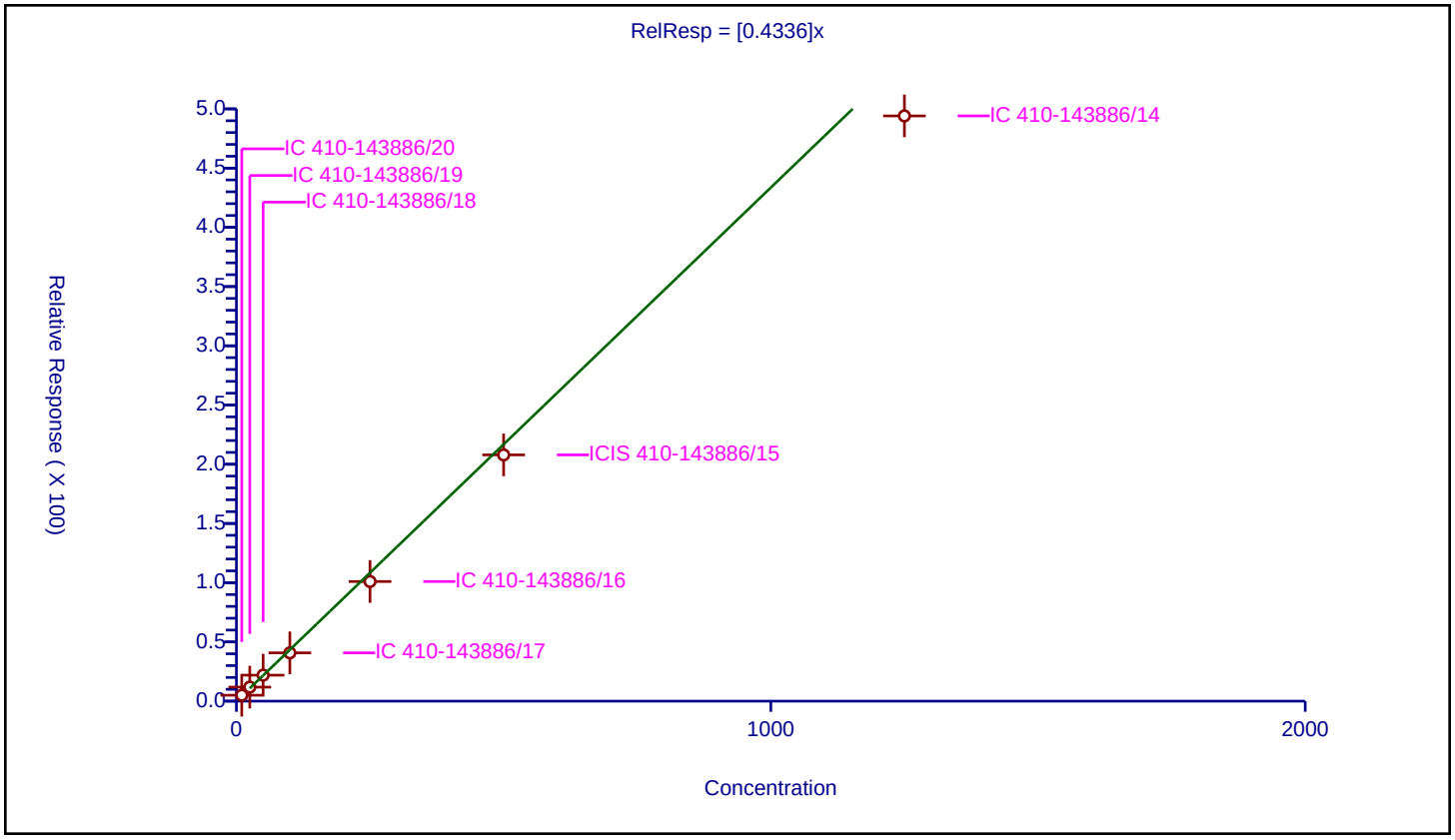
Curve Coefficients

Intercept:	0
Slope:	0.4336

Error Coefficients

Standard Error:	542000
Relative Standard Error:	9.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	10.0	4.998377	50.0	126301.0	0.499838	Y
2	IC 410-143886/19	25.0	11.843389	50.0	128101.0	0.473736	Y
3	IC 410-143886/18	50.0	21.93466	50.0	127180.0	0.438693	Y
4	IC 410-143886/17	100.0	40.771594	50.0	130548.0	0.407716	Y
5	IC 410-143886/16	250.0	101.003776	50.0	130308.0	0.404015	Y
6	ICIS 410-143886/15	500.0	207.883436	50.0	123880.0	0.415767	Y
7	IC 410-143886/14	1250.0	494.067064	50.0	120244.0	0.395254	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

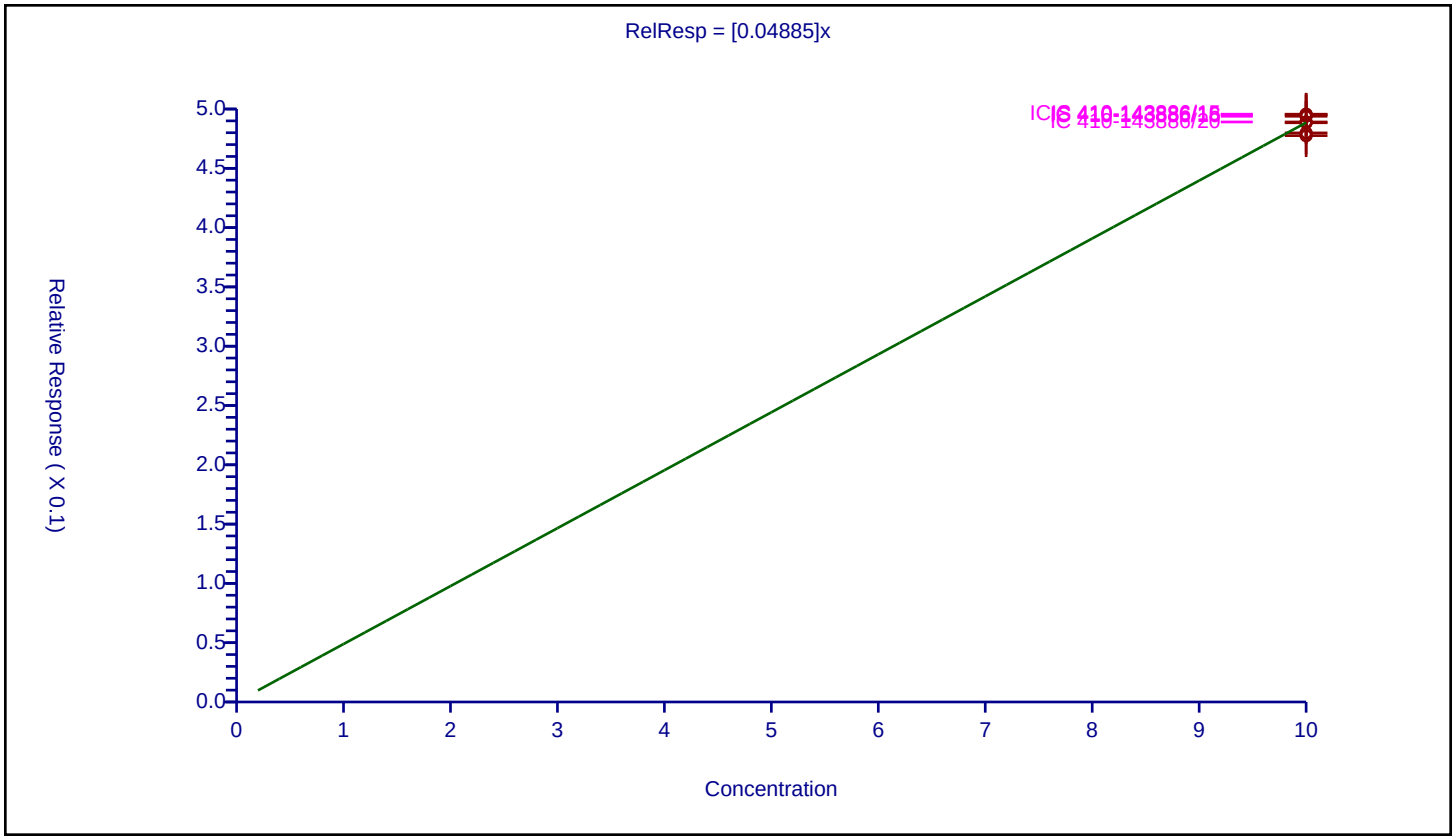
Curve Coefficients

Intercept:	0
Slope:	0.04885

Error Coefficients

Standard Error:	124000
Relative Standard Error:	1.5
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/14	10.0	0.488392	10.0	2283002.0	0.048839	Y
2	ICIS 410-143886/15	10.0	0.495638	10.0	2368765.0	0.049564	Y
3	IC 410-143886/16	10.0	0.493879	10.0	2376252.0	0.049388	Y
4	IC 410-143886/17	10.0	0.479851	10.0	2370175.0	0.047985	Y
5	IC 410-143886/18	10.0	0.495158	10.0	2375123.0	0.049516	Y
6	IC 410-143886/19	10.0	0.477539	10.0	2331162.0	0.047754	Y
7	IC 410-143886/20	10.0	0.489076	10.0	2324361.0	0.048908	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

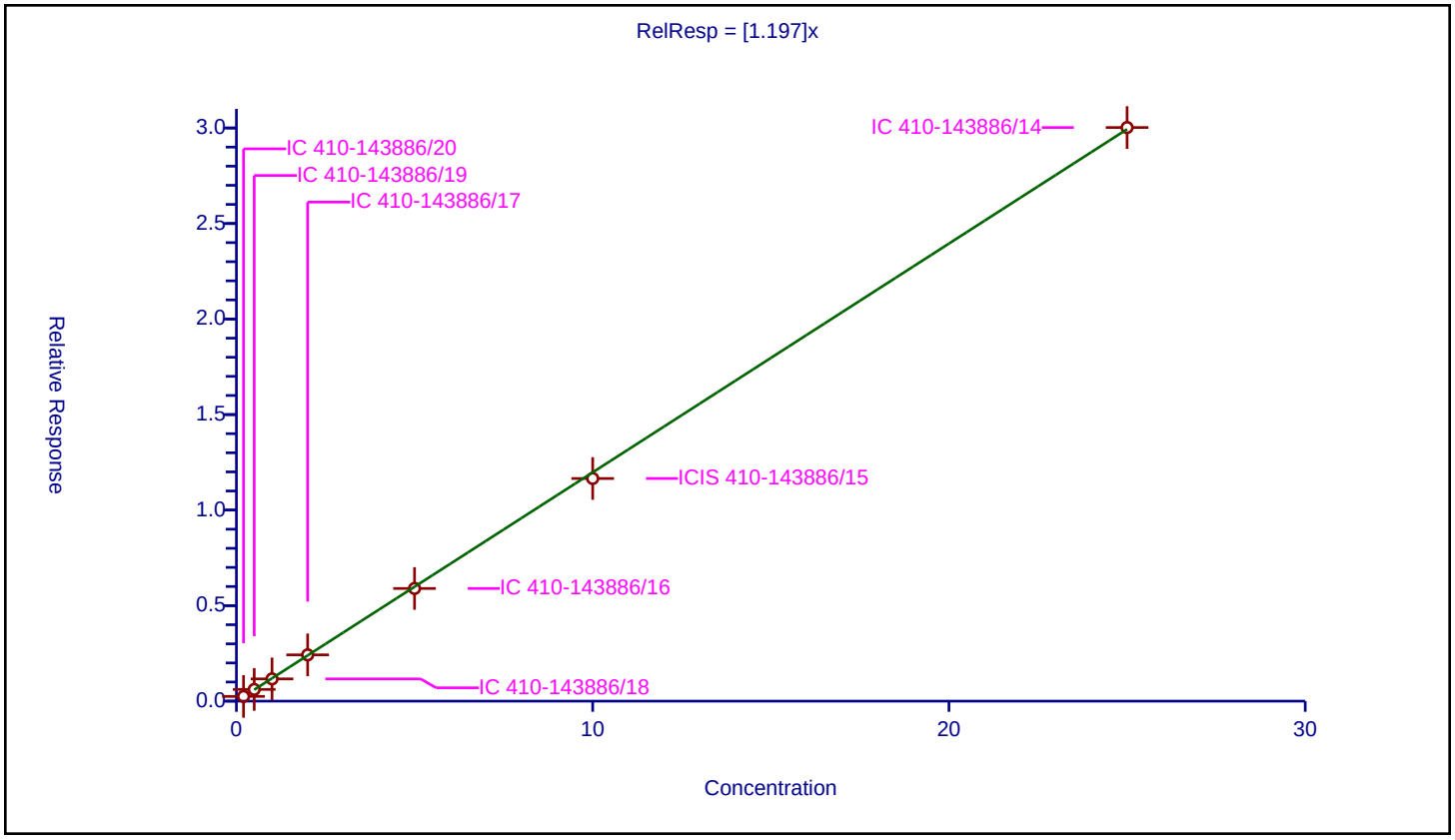
Curve Coefficients

Intercept:	0
Slope:	1.197

Error Coefficients

Standard Error:	3080000
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 410-143886/20	0.2	0.247109	10.0	2324361.0	1.235544	Y
2	IC 410-143886/19	0.5	0.612883	10.0	2331162.0	1.225766	Y
3	IC 410-143886/18	1.0	1.164121	10.0	2375123.0	1.164121	Y
4	IC 410-143886/17	2.0	2.421846	10.0	2370175.0	1.210923	Y
5	IC 410-143886/16	5.0	5.89799	10.0	2376252.0	1.179598	Y
6	ICIS 410-143886/15	10.0	11.653963	10.0	2368765.0	1.165396	Y
7	IC 410-143886/14	25.0	30.023907	10.0	2283002.0	1.200956	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

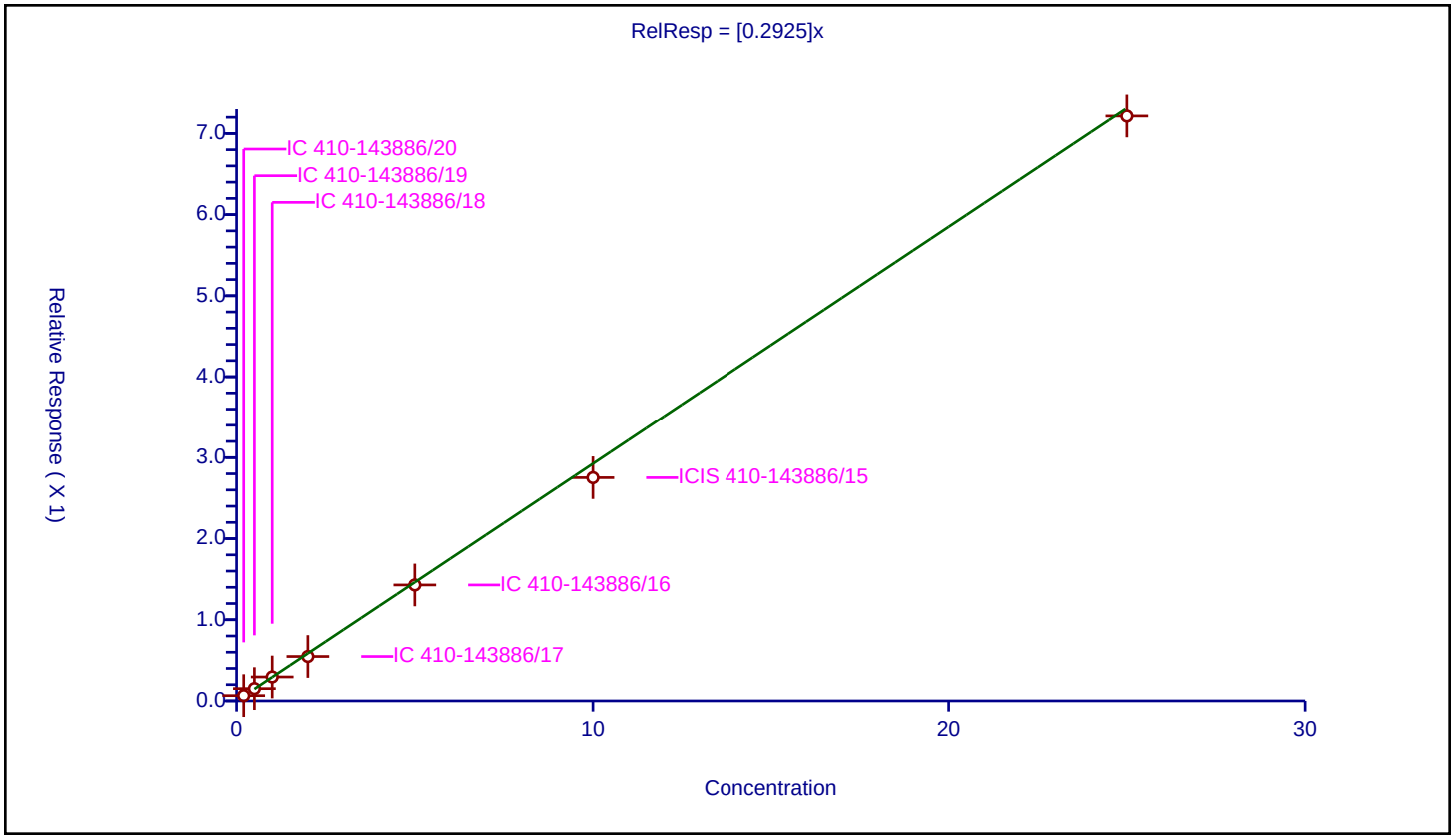
Curve Coefficients

Intercept:	0
Slope:	0.2925

Error Coefficients

Standard Error:	739000
Relative Standard Error:	6.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	0.065257	10.0	2324361.0	0.326283	Y
2	IC 410-143886/19	0.5	0.15156	10.0	2331162.0	0.303119	Y
3	IC 410-143886/18	1.0	0.294898	10.0	2375123.0	0.294898	Y
4	IC 410-143886/17	2.0	0.547213	10.0	2370175.0	0.273606	Y
5	IC 410-143886/16	5.0	1.428994	10.0	2376252.0	0.285799	Y
6	ICIS 410-143886/15	10.0	2.752671	10.0	2368765.0	0.275267	Y
7	IC 410-143886/14	25.0	7.215294	10.0	2283002.0	0.288612	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

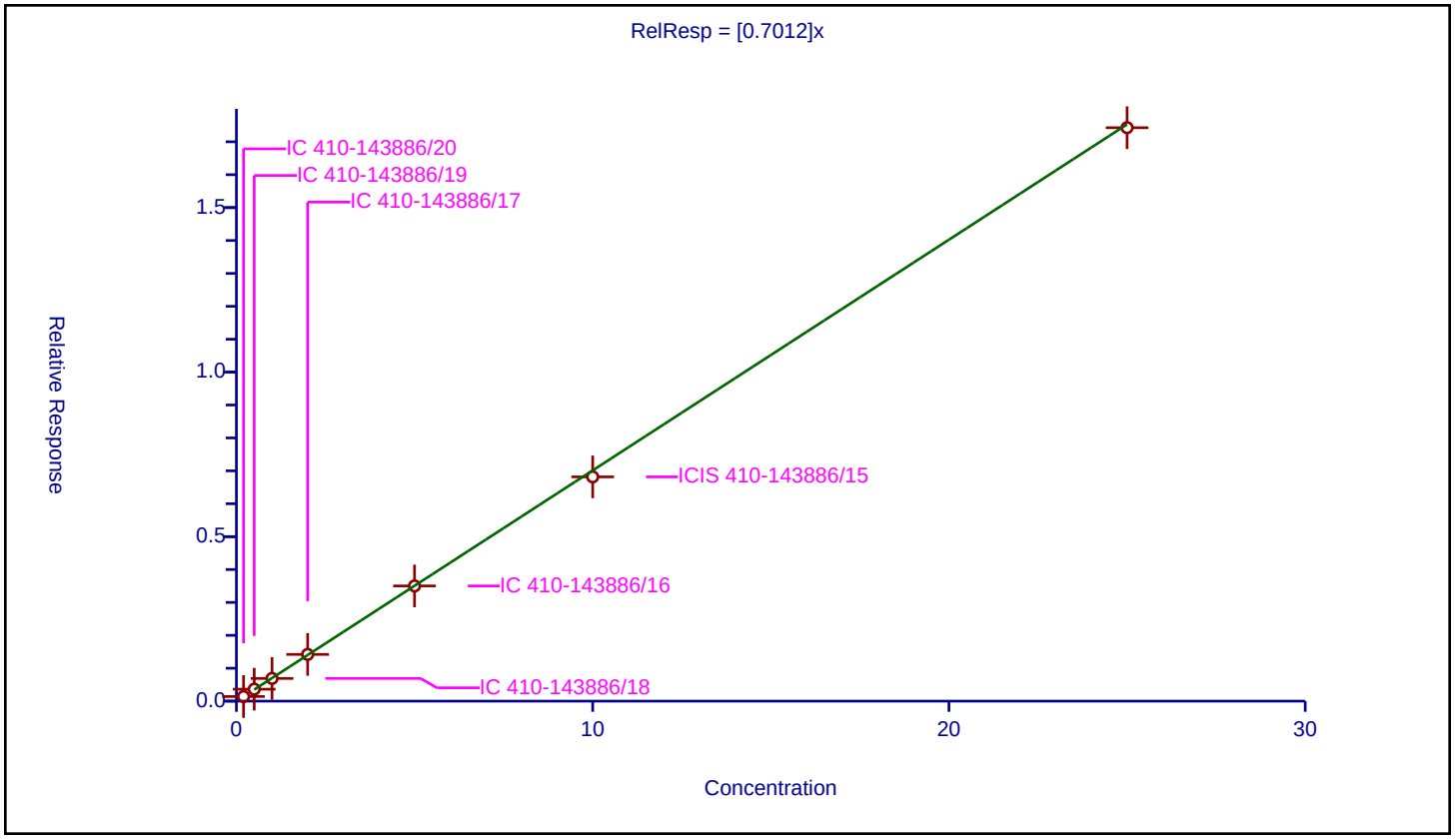
Curve Coefficients

Intercept:	0
Slope:	0.7012

Error Coefficients

Standard Error:	1790000
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 410-143886/20	0.2	0.14049	10.0	2324361.0	0.702451	Y
2	IC 410-143886/19	0.5	0.363445	10.0	2331162.0	0.726891	Y
3	IC 410-143886/18	1.0	0.690027	10.0	2375123.0	0.690027	Y
4	IC 410-143886/17	2.0	1.419942	10.0	2370175.0	0.709971	Y
5	IC 410-143886/16	5.0	3.501645	10.0	2376252.0	0.700329	Y
6	ICIS 410-143886/15	10.0	6.816257	10.0	2368765.0	0.681626	Y
7	IC 410-143886/14	25.0	17.428732	10.0	2283002.0	0.697149	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

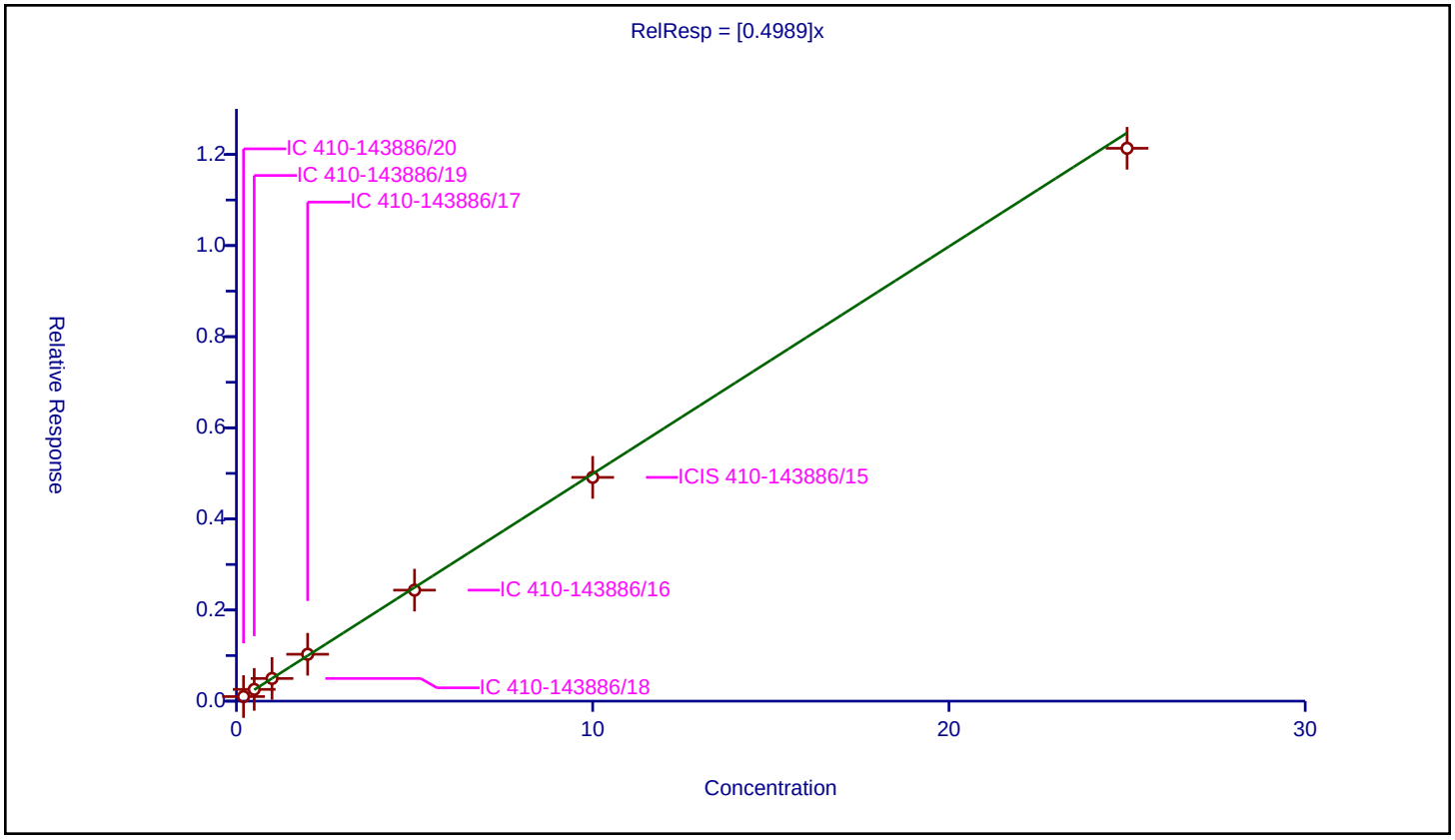
Curve Coefficients

Intercept:	0
Slope:	0.4989

Error Coefficients

Standard Error:	1250000
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 410-143886/20	0.2	0.100126	10.0	2324361.0	0.500632	Y
2	IC 410-143886/19	0.5	0.257871	10.0	2331162.0	0.515743	Y
3	IC 410-143886/18	1.0	0.49765	10.0	2375123.0	0.49765	Y
4	IC 410-143886/17	2.0	1.029468	10.0	2370175.0	0.514734	Y
5	IC 410-143886/16	5.0	2.436505	10.0	2376252.0	0.487301	Y
6	ICIS 410-143886/15	10.0	4.911602	10.0	2368765.0	0.49116	Y
7	IC 410-143886/14	25.0	12.13532	10.0	2283002.0	0.485413	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

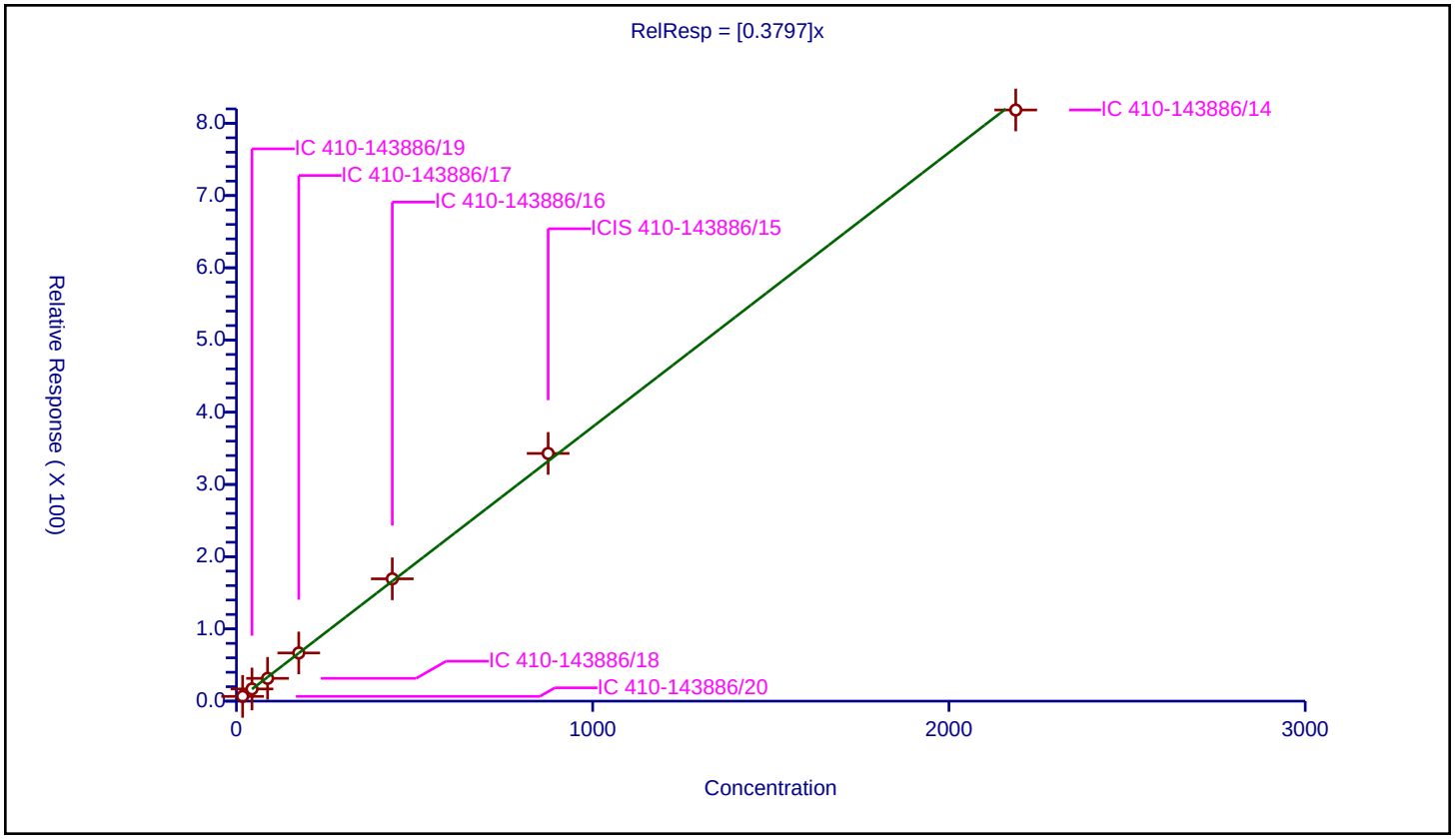
Curve Coefficients

Intercept:	0
Slope:	0.3797

Error Coefficients

Standard Error:	897000
Relative Standard Error:	2.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	17.5	6.597731	50.0	126301.0	0.377013	Y
2	IC 410-143886/19	43.75	16.885504	50.0	128101.0	0.385954	Y
3	IC 410-143886/18	87.5	31.554883	50.0	127180.0	0.360627	Y
4	IC 410-143886/17	175.0	66.744033	50.0	130548.0	0.381394	Y
5	IC 410-143886/16	437.5	169.345704	50.0	130308.0	0.387076	Y
6	ICIS 410-143886/15	875.0	342.962544	50.0	123880.0	0.391957	Y
7	IC 410-143886/14	2187.5	818.476182	50.0	120244.0	0.374161	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

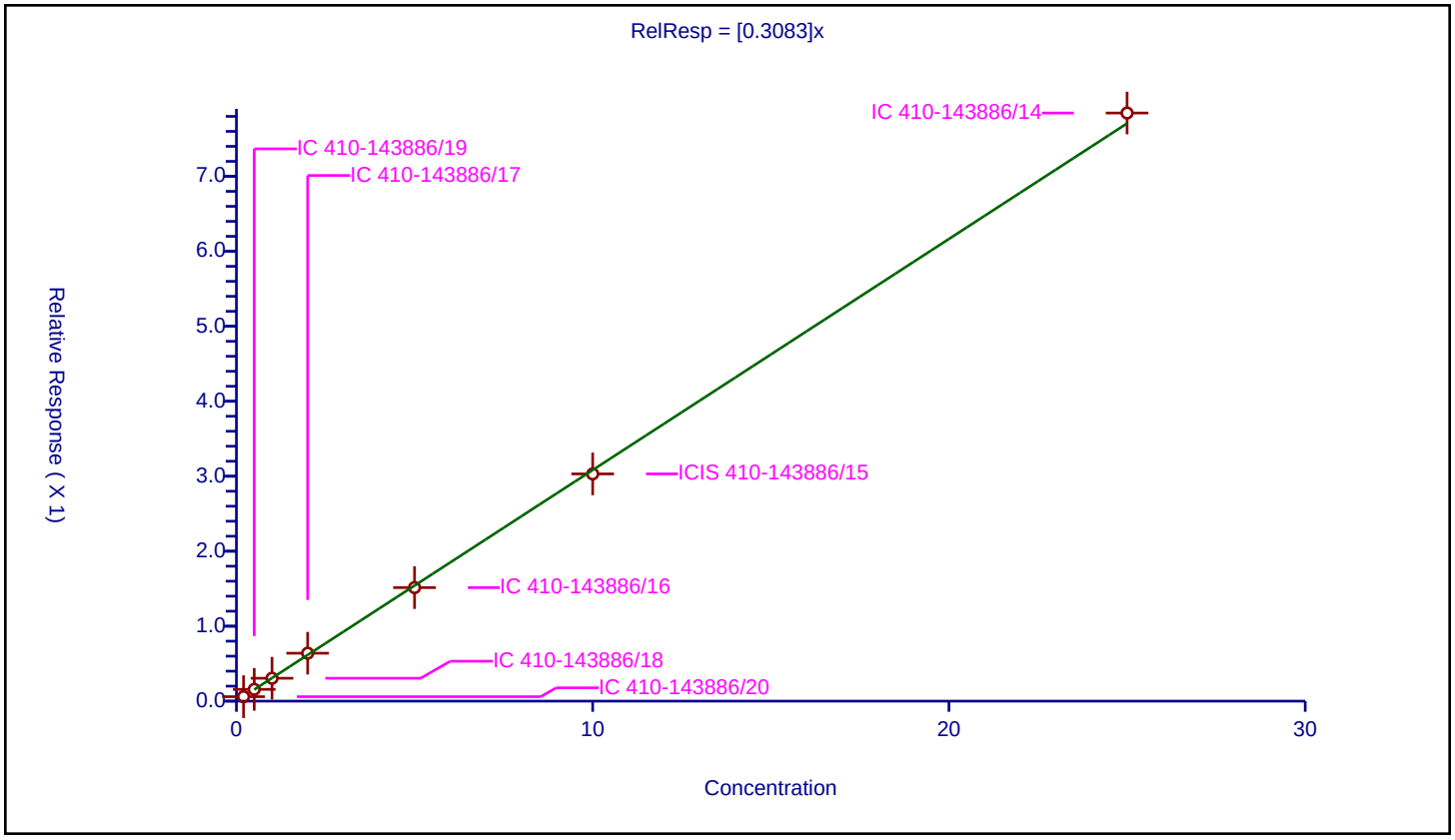
Curve Coefficients

Intercept:	0
Slope:	0.3083

Error Coefficients

Standard Error:	804000
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 410-143886/20	0.2	0.059668	10.0	2324361.0	0.29834	Y
2	IC 410-143886/19	0.5	0.157265	10.0	2331162.0	0.31453	Y
3	IC 410-143886/18	1.0	0.30539	10.0	2375123.0	0.30539	Y
4	IC 410-143886/17	2.0	0.639442	10.0	2370175.0	0.319721	Y
5	IC 410-143886/16	5.0	1.514406	10.0	2376252.0	0.302881	Y
6	ICIS 410-143886/15	10.0	3.031027	10.0	2368765.0	0.303103	Y
7	IC 410-143886/14	25.0	7.844789	10.0	2283002.0	0.313792	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

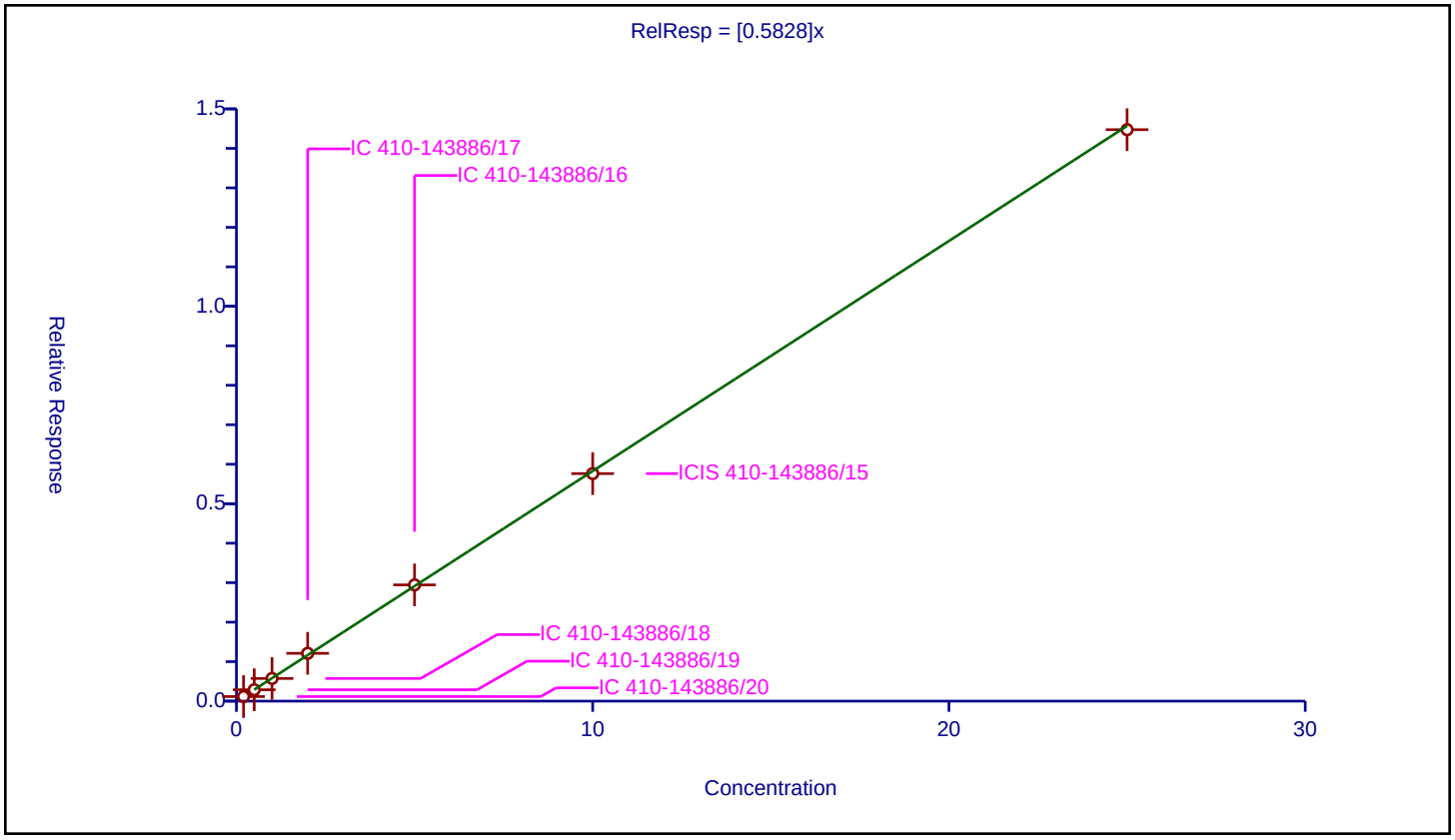
Curve Coefficients

Intercept:	0
Slope:	0.5828

Error Coefficients

Standard Error:	1490000
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	0.115787	10.0	2324361.0	0.578933	Y
2	IC 410-143886/19	0.5	0.288208	10.0	2331162.0	0.576416	Y
3	IC 410-143886/18	1.0	0.574341	10.0	2375123.0	0.574341	Y
4	IC 410-143886/17	2.0	1.211138	10.0	2370175.0	0.605569	Y
5	IC 410-143886/16	5.0	2.94385	10.0	2376252.0	0.58877	Y
6	ICIS 410-143886/15	10.0	5.763024	10.0	2368765.0	0.576302	Y
7	IC 410-143886/14	25.0	14.473859	10.0	2283002.0	0.578954	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

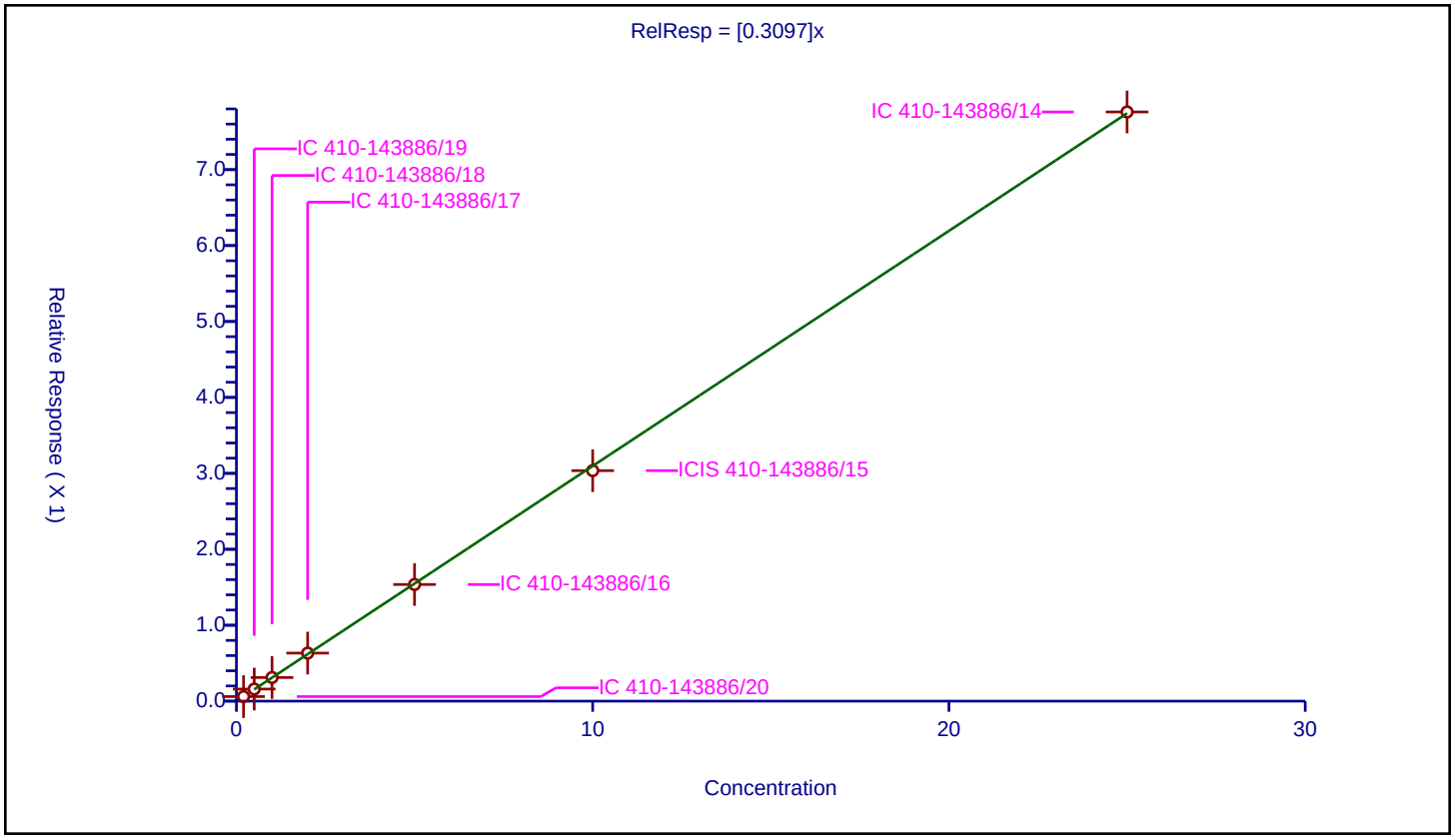
Curve Coefficients

Intercept:	0
Slope:	0.3097

Error Coefficients

Standard Error:	798000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	0.060305	10.0	2324361.0	0.301524	Y
2	IC 410-143886/19	0.5	0.158912	10.0	2331162.0	0.317824	Y
3	IC 410-143886/18	1.0	0.310957	10.0	2375123.0	0.310957	Y
4	IC 410-143886/17	2.0	0.63254	10.0	2370175.0	0.31627	Y
5	IC 410-143886/16	5.0	1.536255	10.0	2376252.0	0.307251	Y
6	ICIS 410-143886/15	10.0	3.035911	10.0	2368765.0	0.303591	Y
7	IC 410-143886/14	25.0	7.759809	10.0	2283002.0	0.310392	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

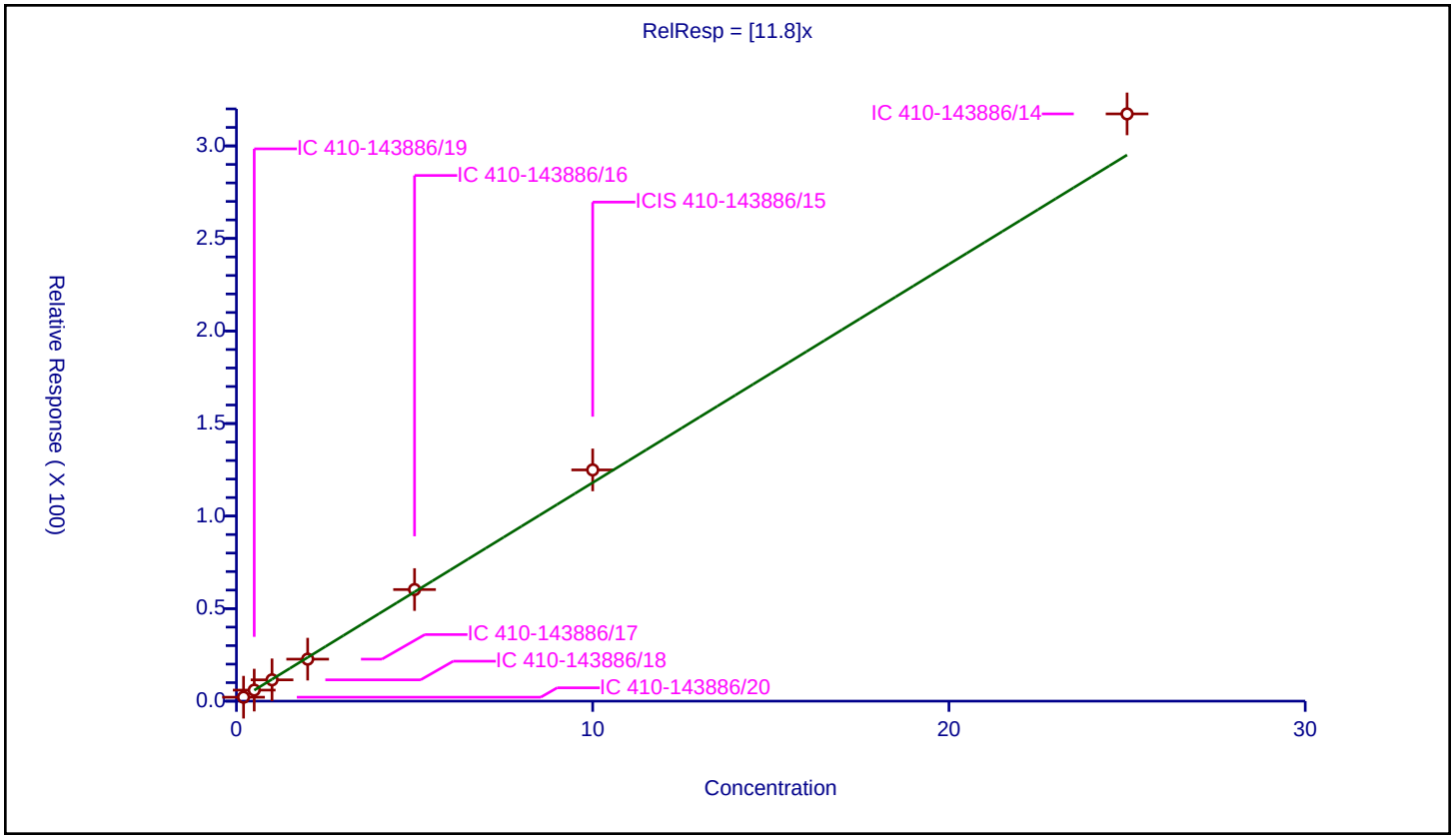
Curve Coefficients

Intercept:	0
Slope:	11.8

Error Coefficients

Standard Error:	343000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	2.121915	50.0	126301.0	10.609576	Y
2	IC 410-143886/19	0.5	5.964825	50.0	128101.0	11.929649	Y
3	IC 410-143886/18	1.0	11.506526	50.0	127180.0	11.506526	Y
4	IC 410-143886/17	2.0	22.690505	50.0	130548.0	11.345252	Y
5	IC 410-143886/16	5.0	60.289084	50.0	130308.0	12.057817	Y
6	ICIS 410-143886/15	10.0	124.936229	50.0	123880.0	12.493623	Y
7	IC 410-143886/14	25.0	317.289844	50.0	120244.0	12.691594	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

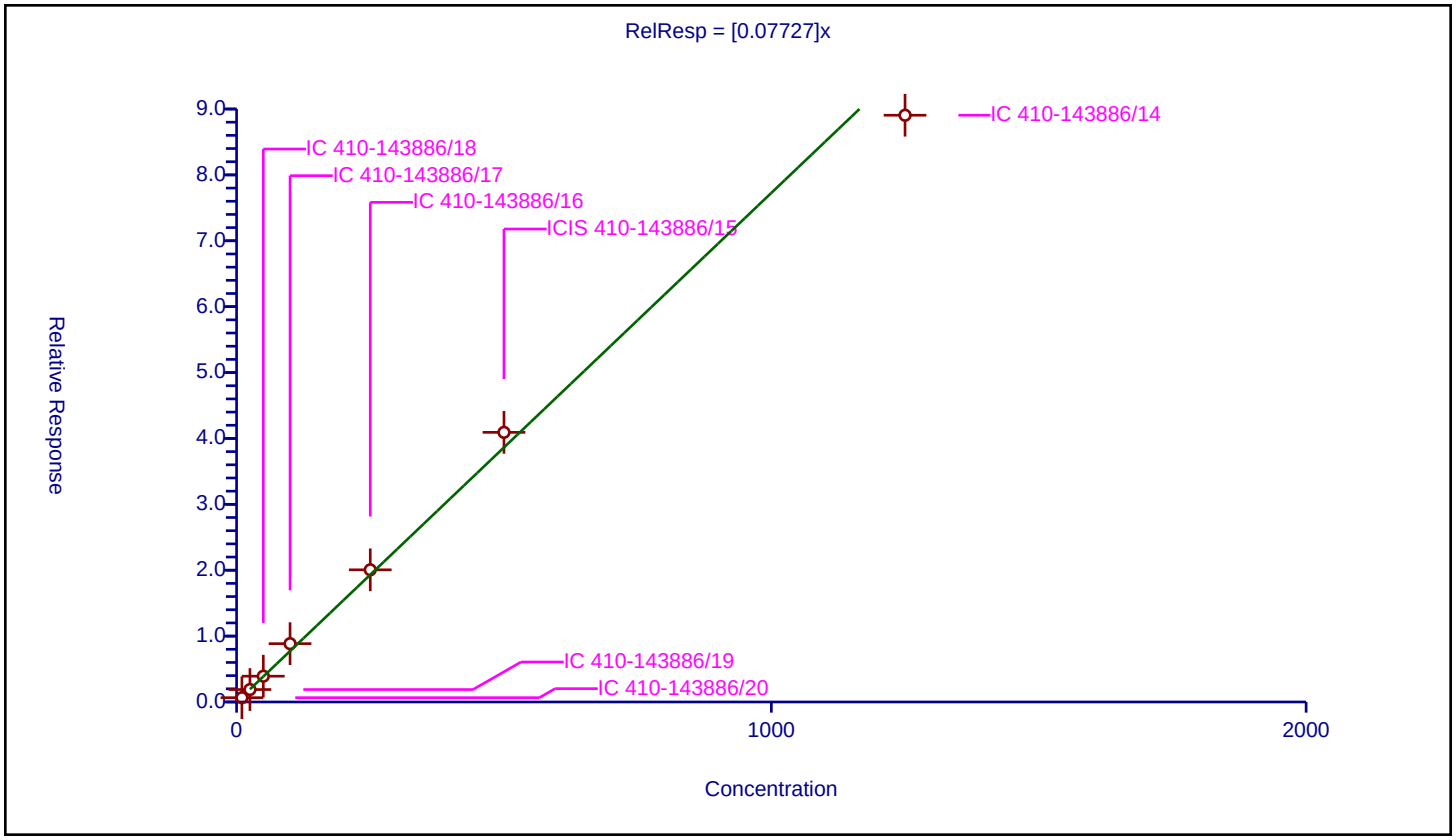
Curve Coefficients

Intercept:	0
Slope:	0.07727

Error Coefficients

Standard Error:	99600
Relative Standard Error:	9.8
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	10.0	0.651618	50.0	126301.0	0.065162	Y
2	IC 410-143886/19	25.0	1.888744	50.0	128101.0	0.07555	Y
3	IC 410-143886/18	50.0	3.914137	50.0	127180.0	0.078283	Y
4	IC 410-143886/17	100.0	8.853449	50.0	130548.0	0.088534	Y
5	IC 410-143886/16	250.0	20.059781	50.0	130308.0	0.080239	Y
6	ICIS 410-143886/15	500.0	40.924685	50.0	123880.0	0.081849	Y
7	IC 410-143886/14	1250.0	89.058082	50.0	120244.0	0.071246	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

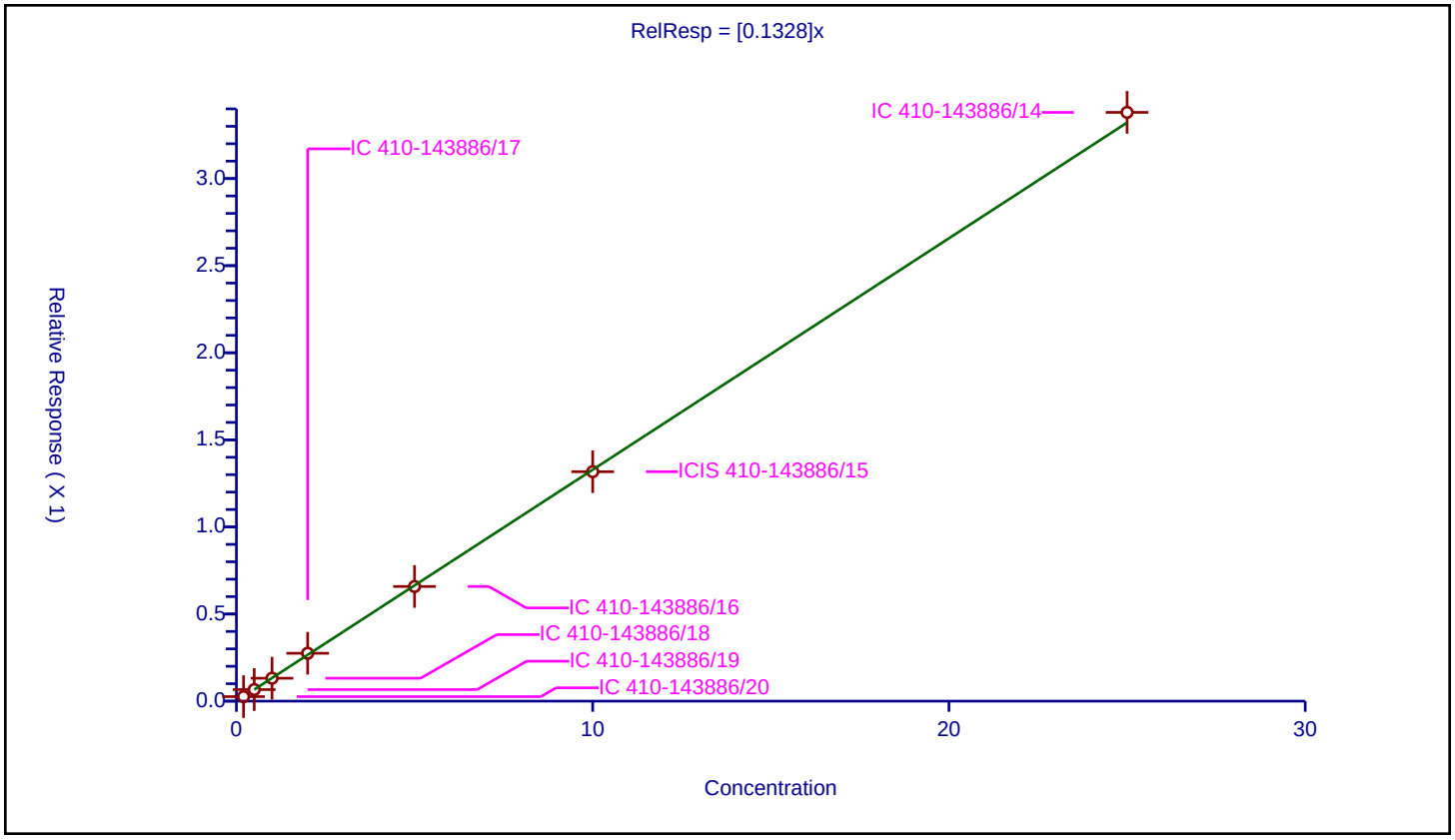
Curve Coefficients

Intercept:	0
Slope:	0.1328

Error Coefficients

Standard Error:	347000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	0.025921	10.0	2324361.0	0.129606	Y
2	IC 410-143886/19	0.5	0.066405	10.0	2331162.0	0.132809	Y
3	IC 410-143886/18	1.0	0.131538	10.0	2375123.0	0.131538	Y
4	IC 410-143886/17	2.0	0.274883	10.0	2370175.0	0.137441	Y
5	IC 410-143886/16	5.0	0.658179	10.0	2376252.0	0.131636	Y
6	ICIS 410-143886/15	10.0	1.31718	10.0	2368765.0	0.131718	Y
7	IC 410-143886/14	25.0	3.379896	10.0	2283002.0	0.135196	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

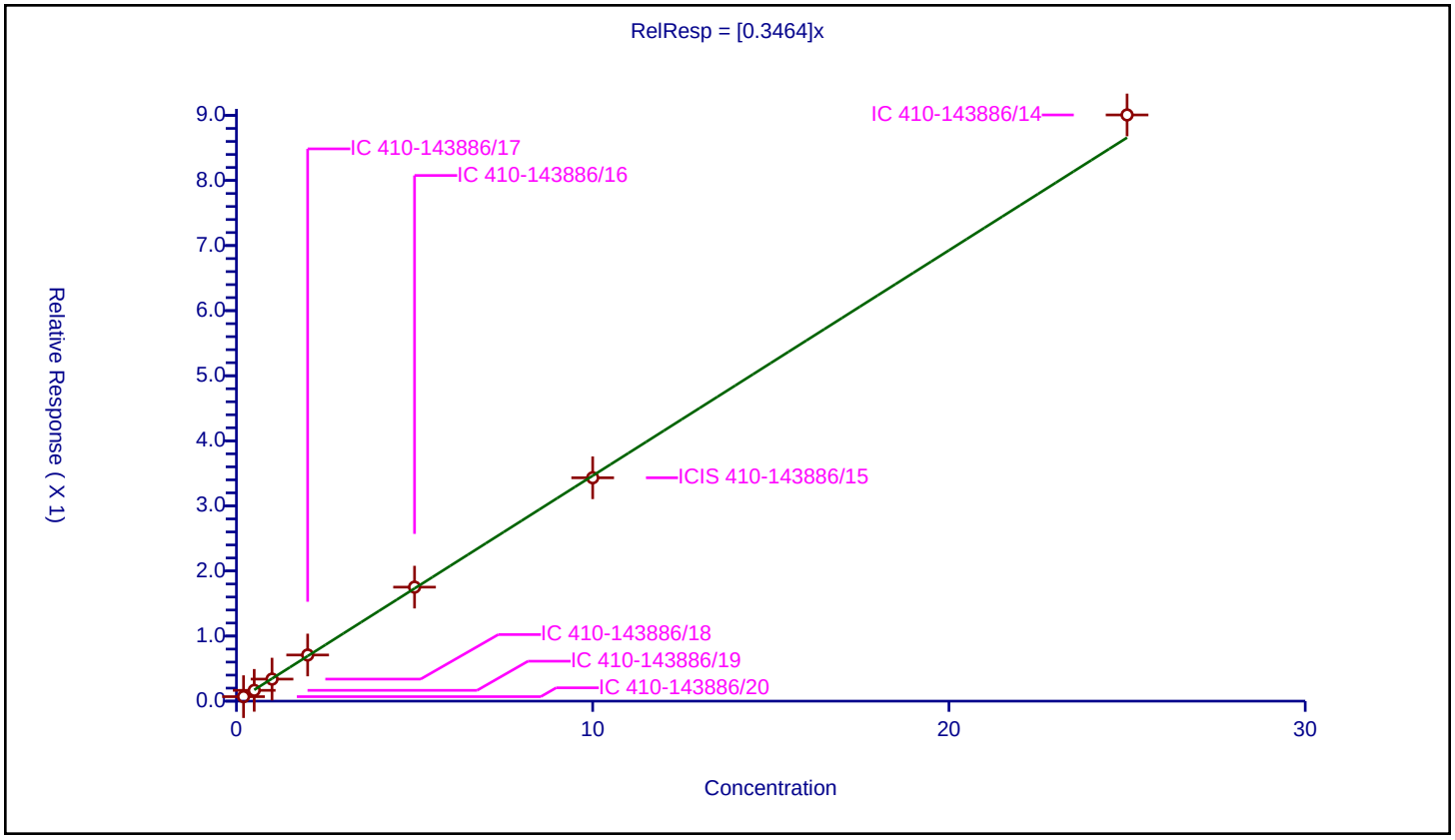
Curve Coefficients

Intercept:	0
Slope:	0.3464

Error Coefficients

Standard Error:	922000
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 410-143886/20	0.2	0.069124	10.0	2324361.0	0.345622	Y
2	IC 410-143886/19	0.5	0.165784	10.0	2331162.0	0.331569	Y
3	IC 410-143886/18	1.0	0.338837	10.0	2375123.0	0.338837	Y
4	IC 410-143886/17	2.0	0.709192	10.0	2370175.0	0.354596	Y
5	IC 410-143886/16	5.0	1.751914	10.0	2376252.0	0.350383	Y
6	ICIS 410-143886/15	10.0	3.431877	10.0	2368765.0	0.343188	Y
7	IC 410-143886/14	25.0	9.007263	10.0	2283002.0	0.360291	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

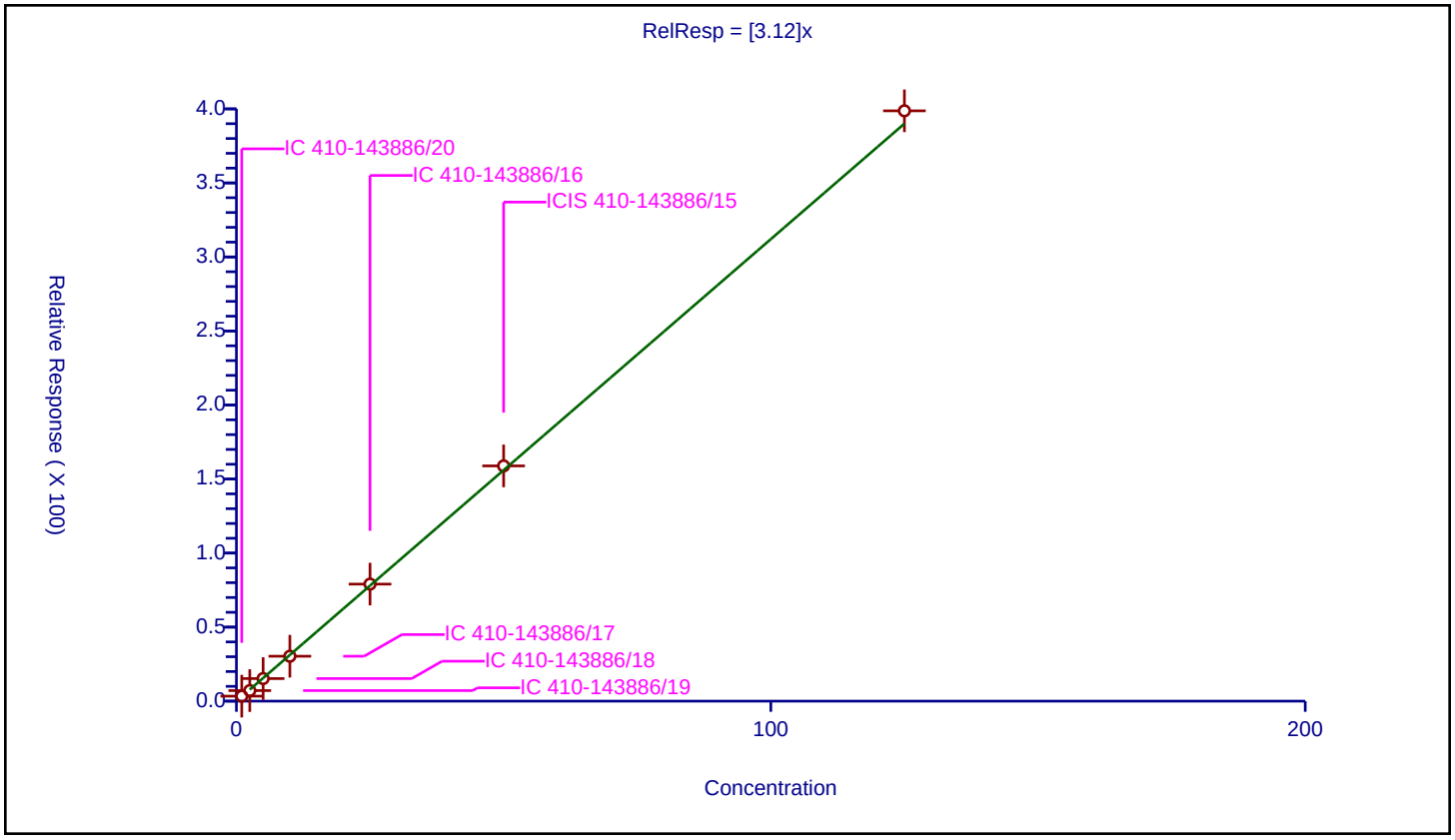
Curve Coefficients

Intercept:	0
Slope:	3.12

Error Coefficients

Standard Error:	433000
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 410-143886/20	1.0	3.374874	50.0	126301.0	3.374874	Y
2	IC 410-143886/19	2.5	7.134995	50.0	128101.0	2.853998	Y
3	IC 410-143886/18	5.0	15.246501	50.0	127180.0	3.0493	Y
4	IC 410-143886/17	10.0	30.340947	50.0	130548.0	3.034095	Y
5	IC 410-143886/16	25.0	79.048869	50.0	130308.0	3.161955	Y
6	ICIS 410-143886/15	50.0	158.874314	50.0	123880.0	3.177486	Y
7	IC 410-143886/14	125.0	398.690163	50.0	120244.0	3.189521	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

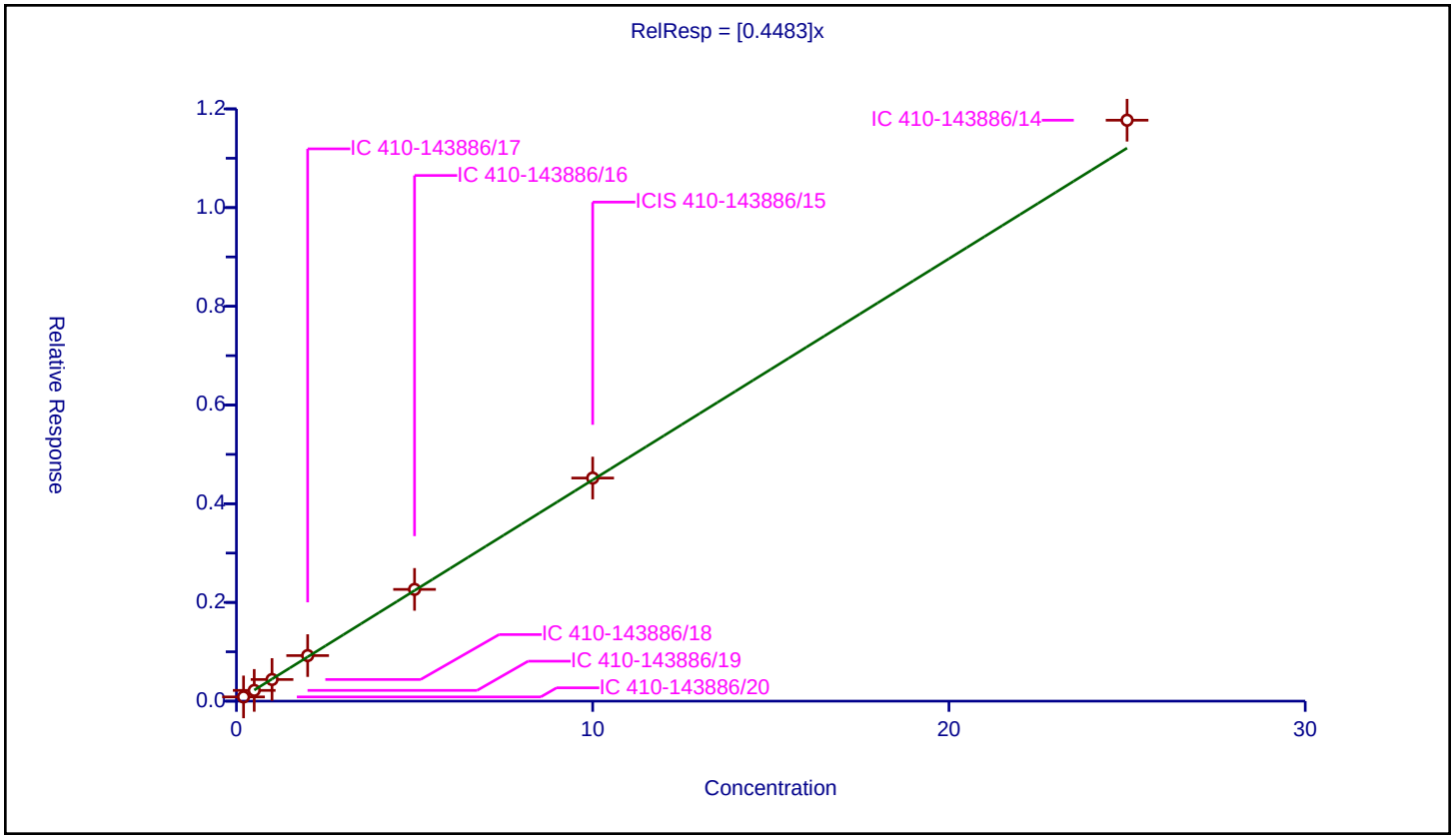
Curve Coefficients

Intercept:	0
Slope:	0.4483

Error Coefficients

Standard Error:	1210000
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 410-143886/20	0.2	0.085426	10.0	2324361.0	0.427128	Y
2	IC 410-143886/19	0.5	0.217664	10.0	2331162.0	0.435328	Y
3	IC 410-143886/18	1.0	0.438205	10.0	2375123.0	0.438205	Y
4	IC 410-143886/17	2.0	0.922835	10.0	2370175.0	0.461417	Y
5	IC 410-143886/16	5.0	2.264145	10.0	2376252.0	0.452829	Y
6	ICIS 410-143886/15	10.0	4.520626	10.0	2368765.0	0.452063	Y
7	IC 410-143886/14	25.0	11.770901	10.0	2283002.0	0.470836	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

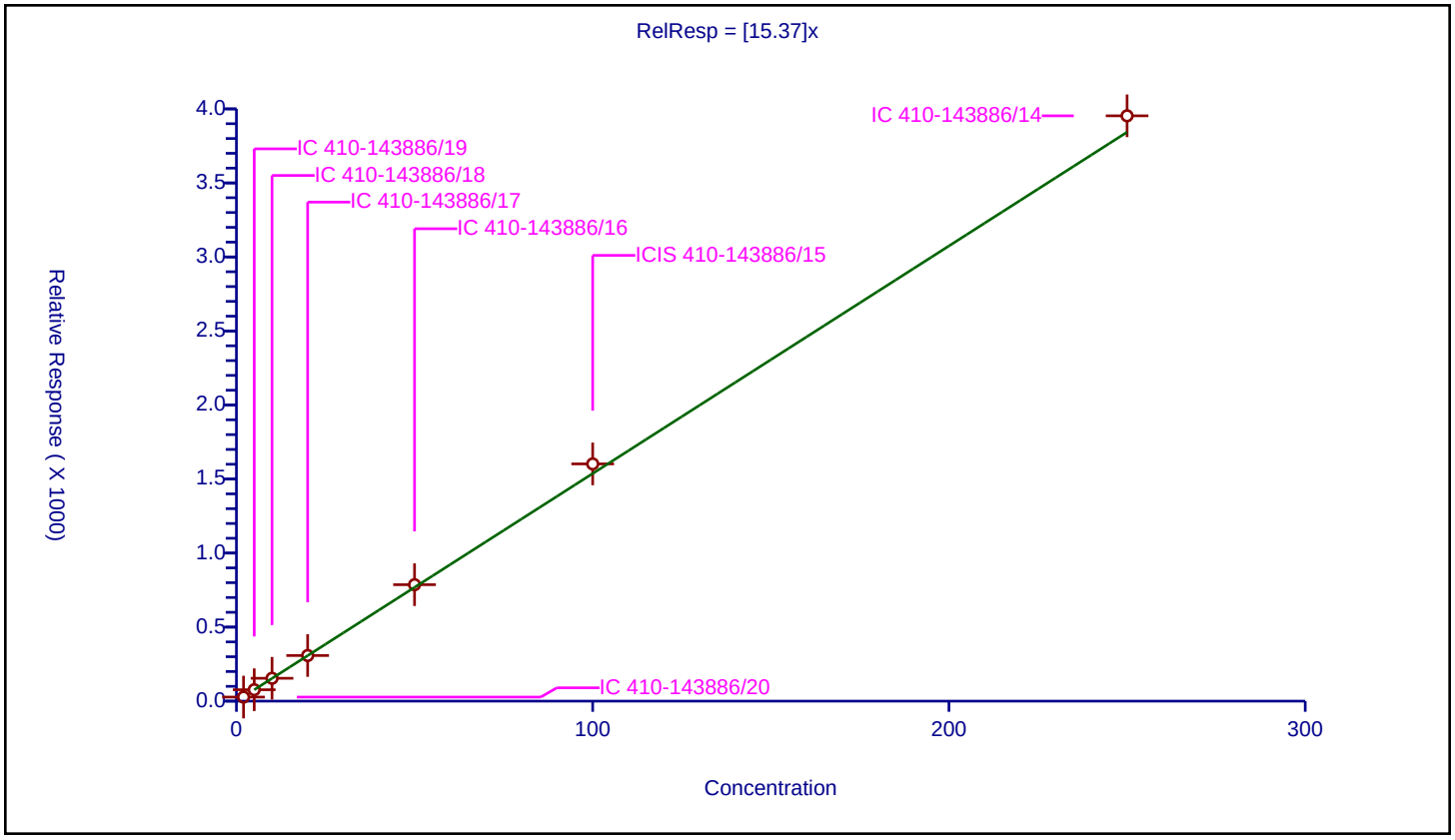
Curve Coefficients

Intercept:	0
Slope:	15.37

Error Coefficients

Standard Error:	4300000
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 410-143886/20	2.0	27.519972	50.0	126301.0	13.759986	Y
2	IC 410-143886/19	5.0	77.163332	50.0	128101.0	15.432666	Y
3	IC 410-143886/18	10.0	154.433087	50.0	127180.0	15.443309	Y
4	IC 410-143886/17	20.0	308.007017	50.0	130548.0	15.400351	Y
5	IC 410-143886/16	50.0	786.531525	50.0	130308.0	15.730631	Y
6	ICIS 410-143886/15	100.0	1602.264692	50.0	123880.0	16.022647	Y
7	IC 410-143886/14	250.0	3953.201823	50.0	120244.0	15.812807	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

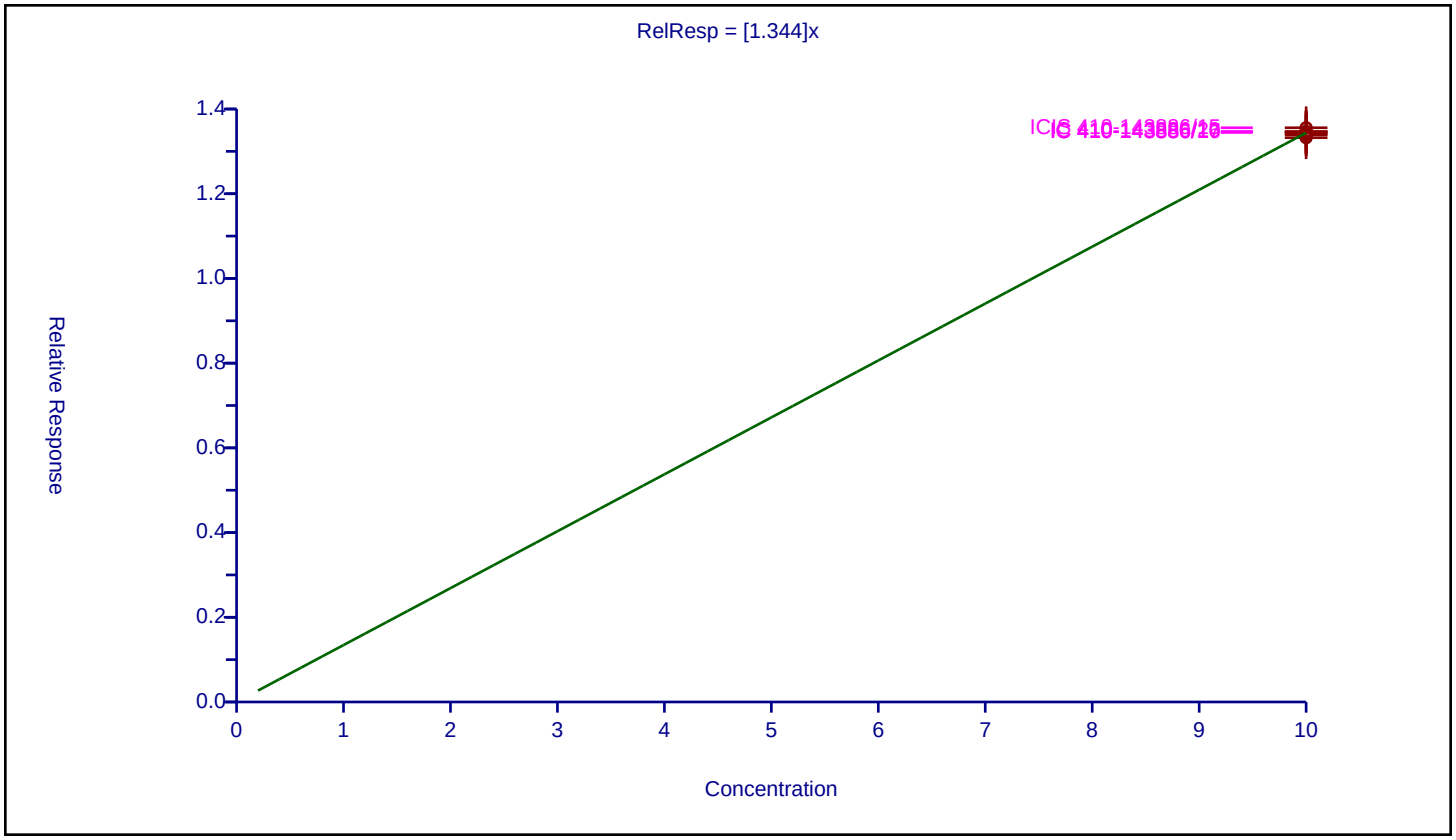
Curve Coefficients

Intercept:	0
Slope:	1.344

Error Coefficients

Standard Error:	2510000
Relative Standard Error:	0.5
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/14	10.0	13.323754	10.0	1709928.0	1.332375	Y
2	ICIS 410-143886/15	10.0	13.557417	10.0	1741980.0	1.355742	Y
3	IC 410-143886/16	10.0	13.461197	10.0	1752836.0	1.34612	Y
4	IC 410-143886/17	10.0	13.447624	10.0	1742684.0	1.344762	Y
5	IC 410-143886/18	10.0	13.394262	10.0	1761735.0	1.339426	Y
6	IC 410-143886/19	10.0	13.407687	10.0	1704998.0	1.340769	Y
7	IC 410-143886/20	10.0	13.467087	10.0	1708734.0	1.346709	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

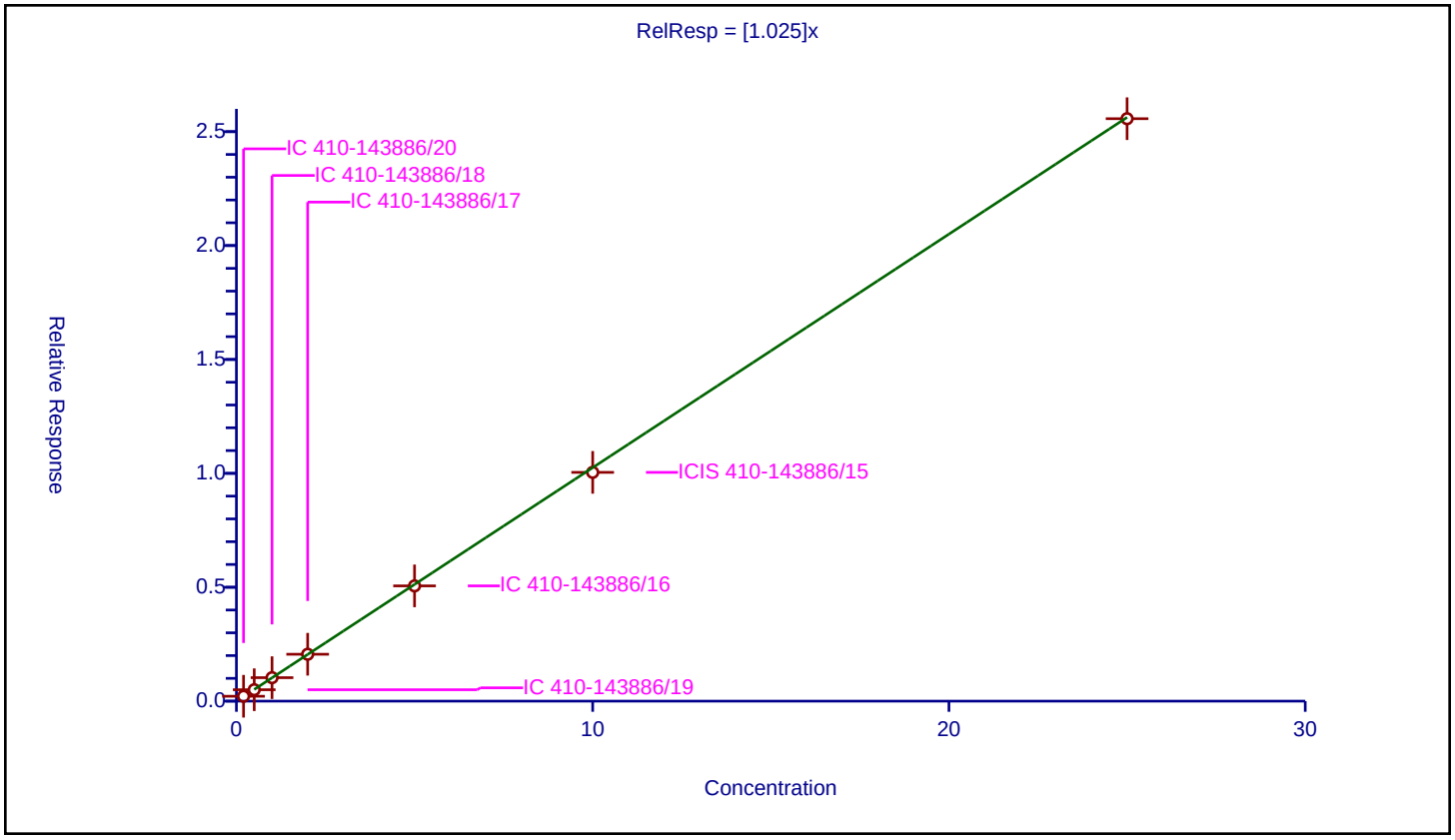
Curve Coefficients

Intercept:	0
Slope:	1.025

Error Coefficients

Standard Error:	1960000
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 410-143886/20	0.2	0.214796	10.0	1708734.0	1.073982	Y
2	IC 410-143886/19	0.5	0.501549	10.0	1704998.0	1.003098	Y
3	IC 410-143886/18	1.0	1.030473	10.0	1761735.0	1.030473	Y
4	IC 410-143886/17	2.0	2.058256	10.0	1742684.0	1.029128	Y
5	IC 410-143886/16	5.0	5.059623	10.0	1752836.0	1.011925	Y
6	ICIS 410-143886/15	10.0	10.043812	10.0	1741980.0	1.004381	Y
7	IC 410-143886/14	25.0	25.569392	10.0	1709928.0	1.022776	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

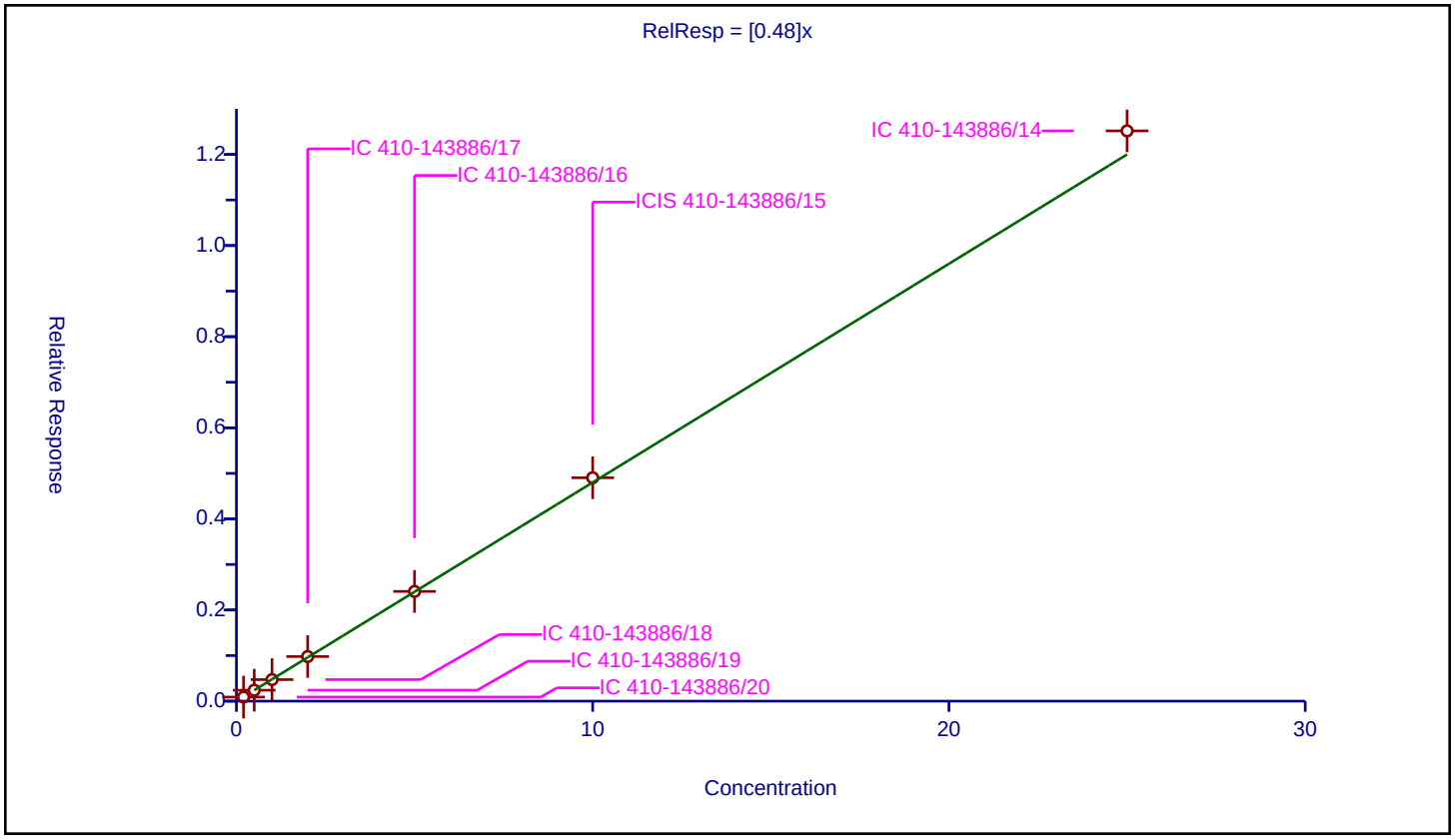
Curve Coefficients

Intercept:	0
Slope:	0.48

Error Coefficients

Standard Error:	960000
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 410-143886/20	0.2	0.089095	10.0	1708734.0	0.445476	Y
2	IC 410-143886/19	0.5	0.239865	10.0	1704998.0	0.479731	Y
3	IC 410-143886/18	1.0	0.472784	10.0	1761735.0	0.472784	Y
4	IC 410-143886/17	2.0	0.978812	10.0	1742684.0	0.489406	Y
5	IC 410-143886/16	5.0	2.408349	10.0	1752836.0	0.48167	Y
6	ICIS 410-143886/15	10.0	4.903644	10.0	1741980.0	0.490364	Y
7	IC 410-143886/14	25.0	12.517065	10.0	1709928.0	0.500683	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

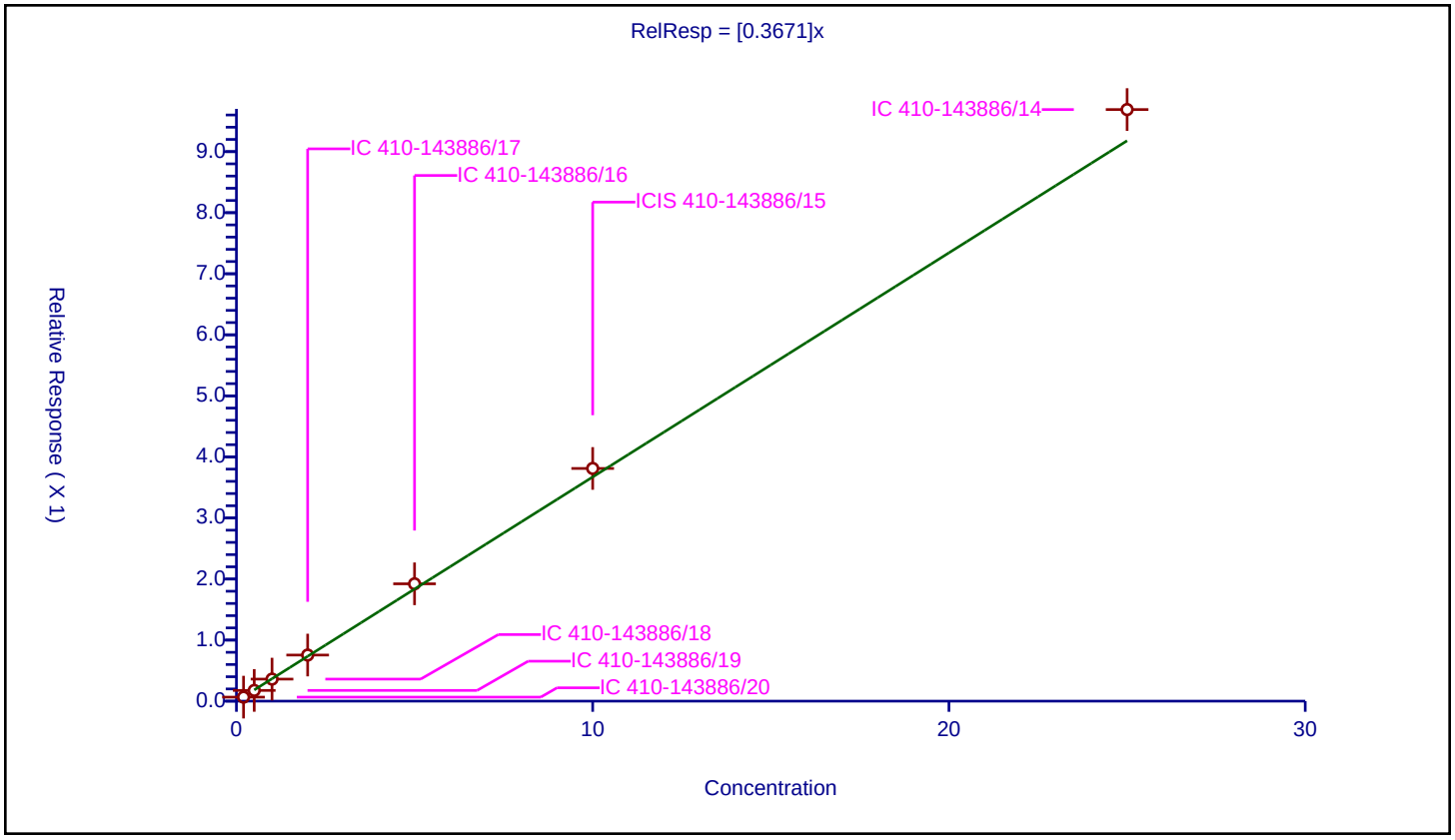
Curve Coefficients

Intercept:	0
Slope:	0.3671

Error Coefficients

Standard Error:	744000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.200009	0.065581	10.0	1708734.0	0.327889	Y
2	IC 410-143886/19	0.500022	0.175379	10.0	1704998.0	0.350742	Y
3	IC 410-143886/18	1.000044	0.360917	10.0	1761735.0	0.360901	Y
4	IC 410-143886/17	2.000088	0.75487	10.0	1742684.0	0.377419	Y
5	IC 410-143886/16	5.000219	1.921686	10.0	1752836.0	0.38432	Y
6	ICIS 410-143886/15	10.000438	3.811077	10.0	1741980.0	0.381091	Y
7	IC 410-143886/14	25.001094	9.688993	10.0	1709928.0	0.387543	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

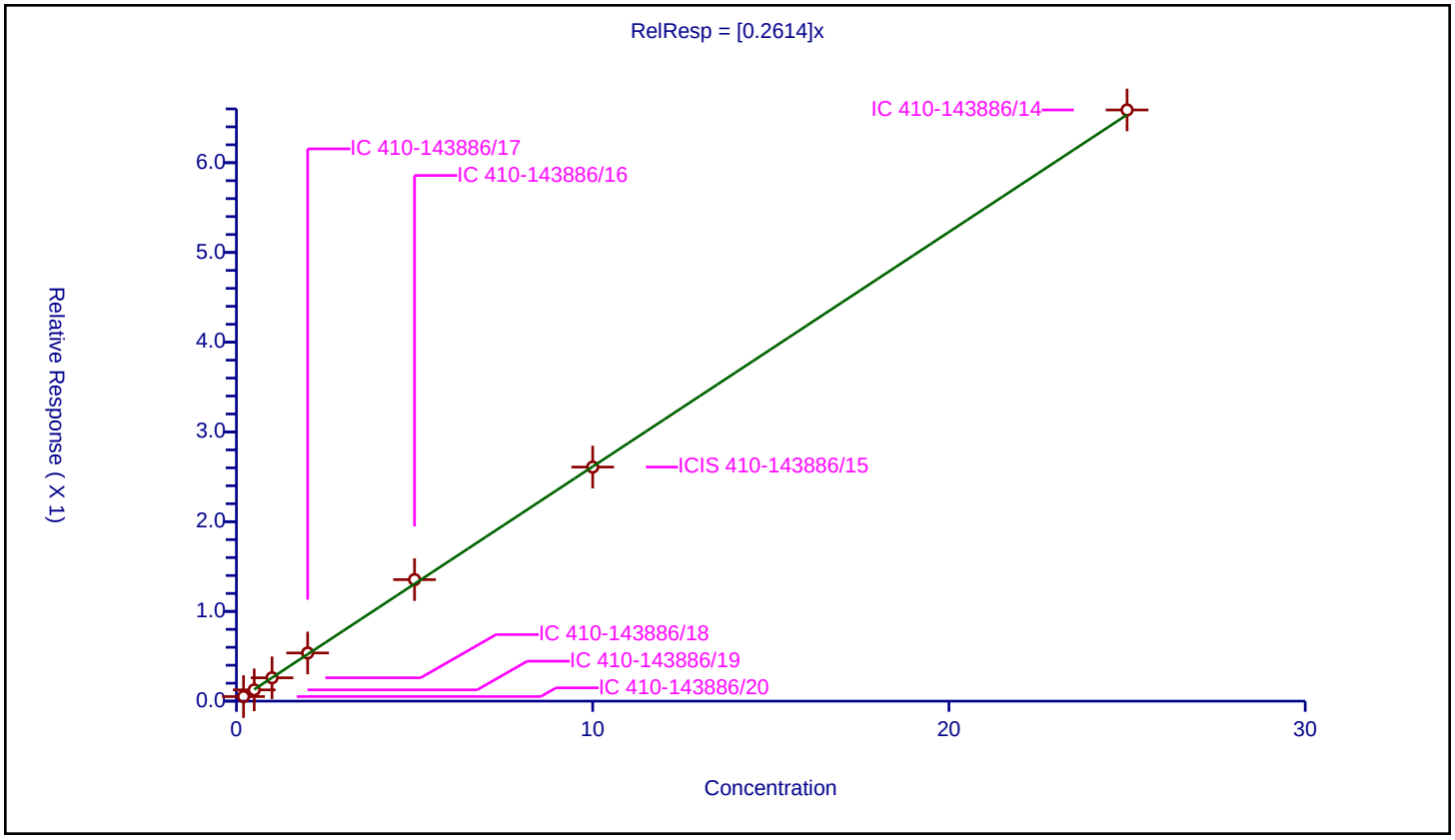
Curve Coefficients

Intercept:	0
Slope:	0.2614

Error Coefficients

Standard Error:	507000
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 410-143886/20	0.2	0.050979	10.0	1708734.0	0.254896	Y
2	IC 410-143886/19	0.5	0.125572	10.0	1704998.0	0.251144	Y
3	IC 410-143886/18	1.0	0.260226	10.0	1761735.0	0.260226	Y
4	IC 410-143886/17	2.0	0.536707	10.0	1742684.0	0.268353	Y
5	IC 410-143886/16	5.0	1.354337	10.0	1752836.0	0.270867	Y
6	ICIS 410-143886/15	10.0	2.608451	10.0	1741980.0	0.260845	Y
7	IC 410-143886/14	25.0	6.588201	10.0	1709928.0	0.263528	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

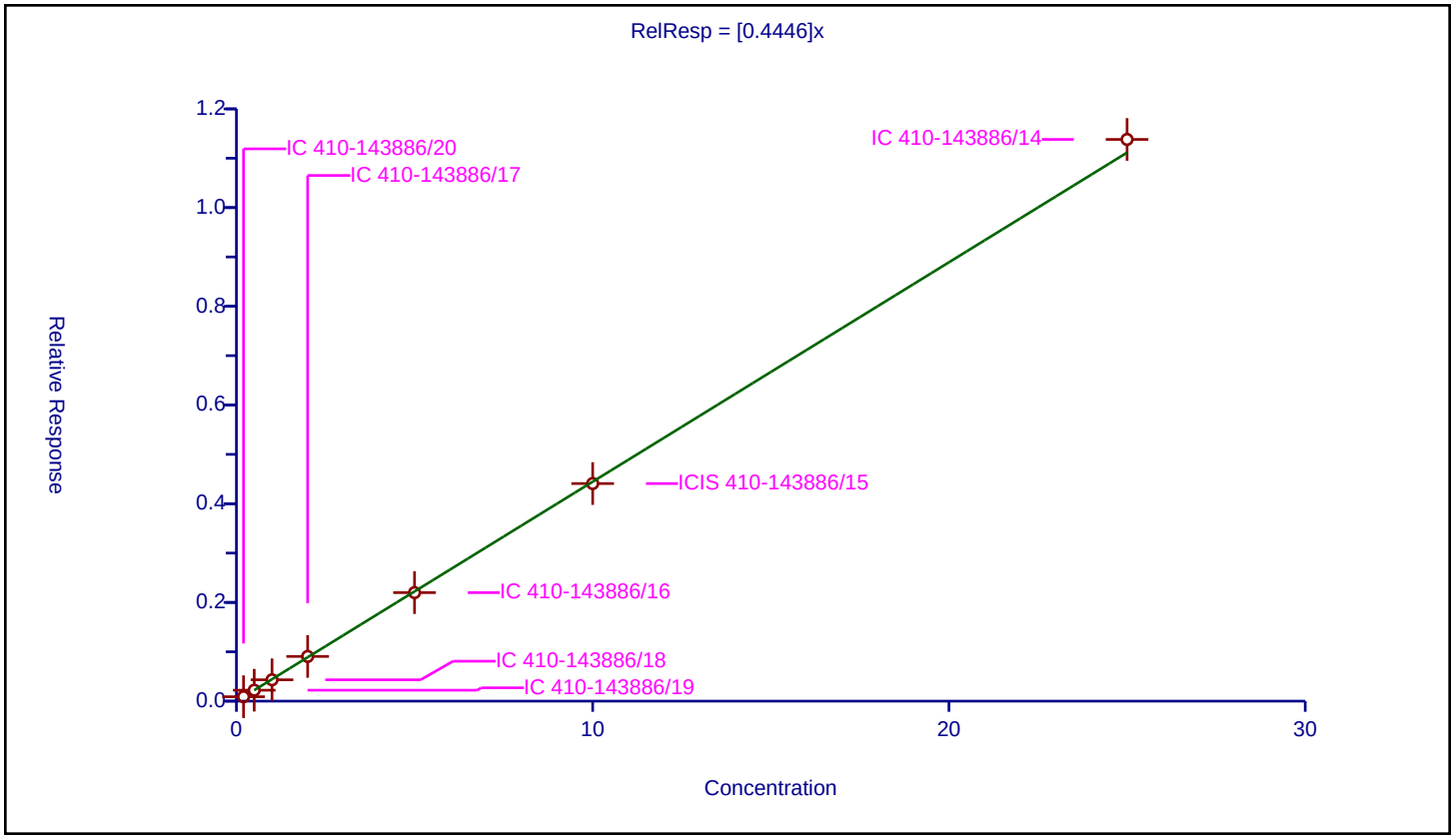
Curve Coefficients

Intercept:	0
Slope:	0.4446

Error Coefficients

Standard Error:	872000
Relative Standard Error:	1.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	0.089411	10.0	1708734.0	0.447056	Y
2	IC 410-143886/19	0.5	0.221625	10.0	1704998.0	0.44325	Y
3	IC 410-143886/18	1.0	0.432744	10.0	1761735.0	0.432744	Y
4	IC 410-143886/17	2.0	0.906062	10.0	1742684.0	0.453031	Y
5	IC 410-143886/16	5.0	2.198945	10.0	1752836.0	0.439789	Y
6	ICIS 410-143886/15	10.0	4.40892	10.0	1741980.0	0.440892	Y
7	IC 410-143886/14	25.0	11.381041	10.0	1709928.0	0.455242	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

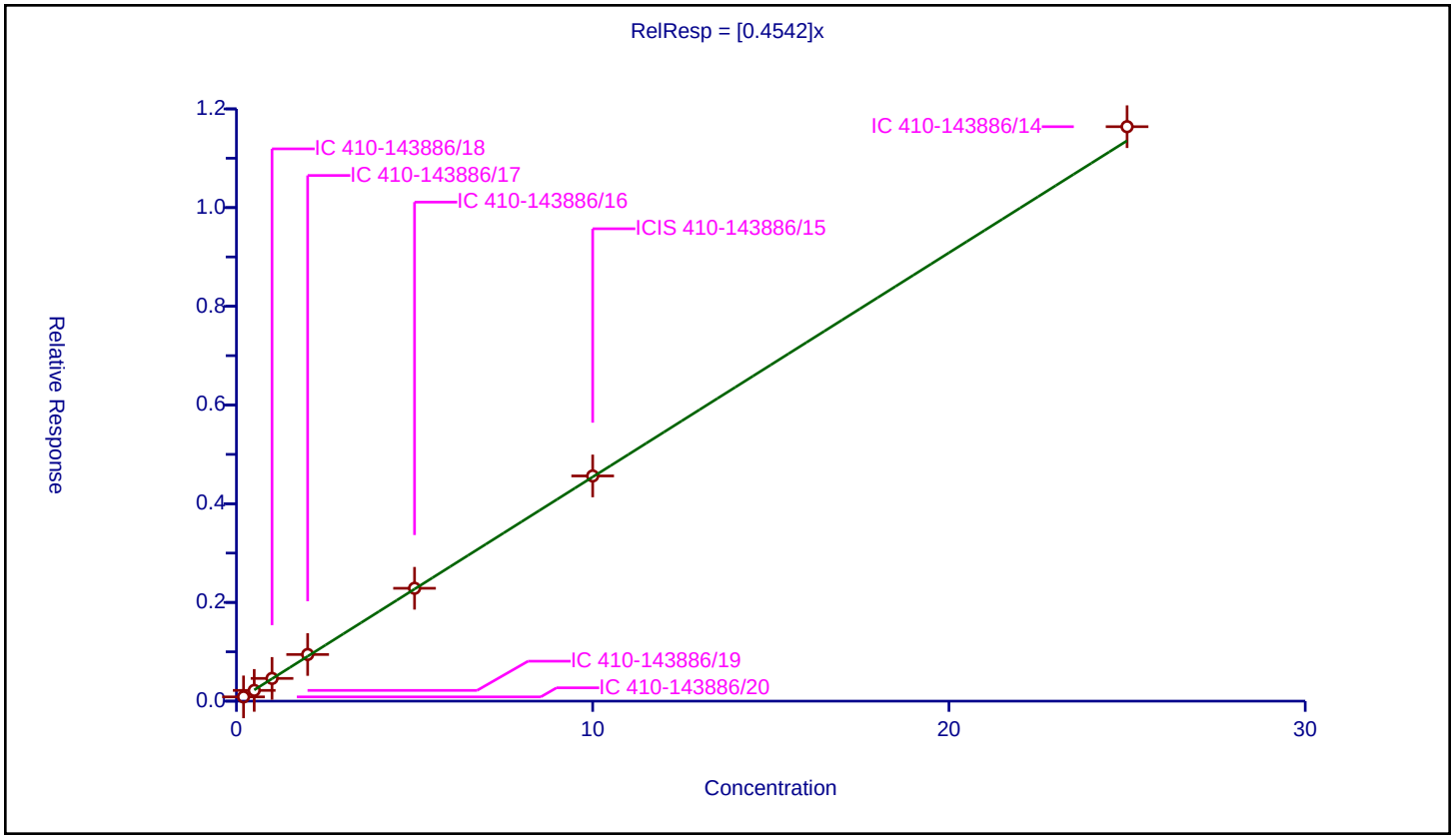
Curve Coefficients

Intercept:	0
Slope:	0.4542

Error Coefficients

Standard Error:	893000
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 410-143886/20	0.2	0.086304	10.0	1708734.0	0.431518	Y
2	IC 410-143886/19	0.5	0.218	10.0	1704998.0	0.436001	Y
3	IC 410-143886/18	1.0	0.460393	10.0	1761735.0	0.460393	Y
4	IC 410-143886/17	2.0	0.944985	10.0	1742684.0	0.472492	Y
5	IC 410-143886/16	5.0	2.286734	10.0	1752836.0	0.457347	Y
6	ICIS 410-143886/15	10.0	4.562888	10.0	1741980.0	0.456289	Y
7	IC 410-143886/14	25.0	11.639315	10.0	1709928.0	0.465573	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

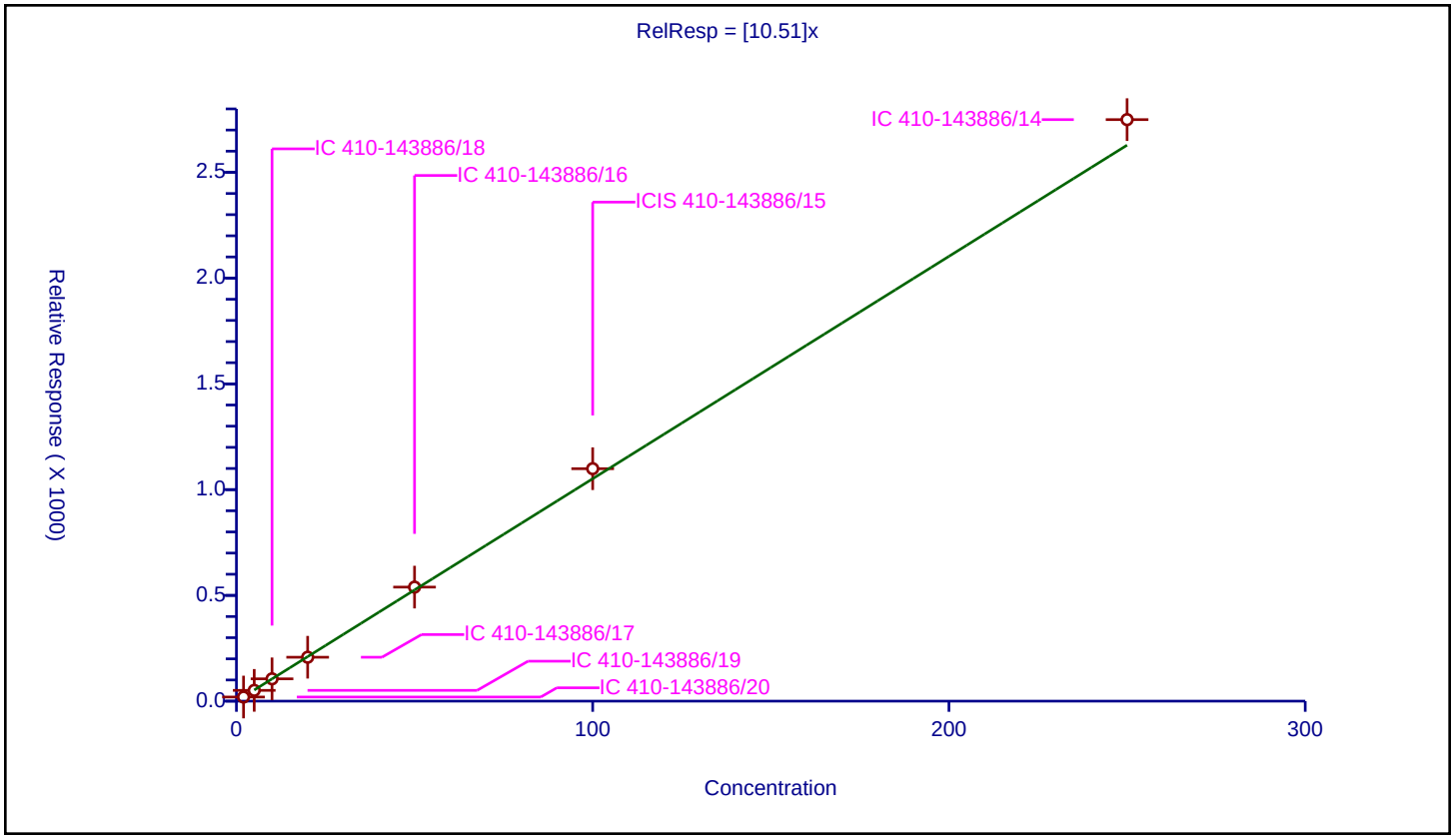
Curve Coefficients

Intercept:	0
Slope:	10.51

Error Coefficients

Standard Error:	2980000
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 410-143886/20	2.0	19.413544	50.0	126301.0	9.706772	Y
2	IC 410-143886/19	5.0	50.983599	50.0	128101.0	10.19672	Y
3	IC 410-143886/18	10.0	105.479242	50.0	127180.0	10.547924	Y
4	IC 410-143886/17	20.0	207.58878	50.0	130548.0	10.379439	Y
5	IC 410-143886/16	50.0	539.153007	50.0	130308.0	10.78306	Y
6	ICIS 410-143886/15	100.0	1098.9397	50.0	123880.0	10.989397	Y
7	IC 410-143886/14	250.0	2749.257759	50.0	120244.0	10.997031	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

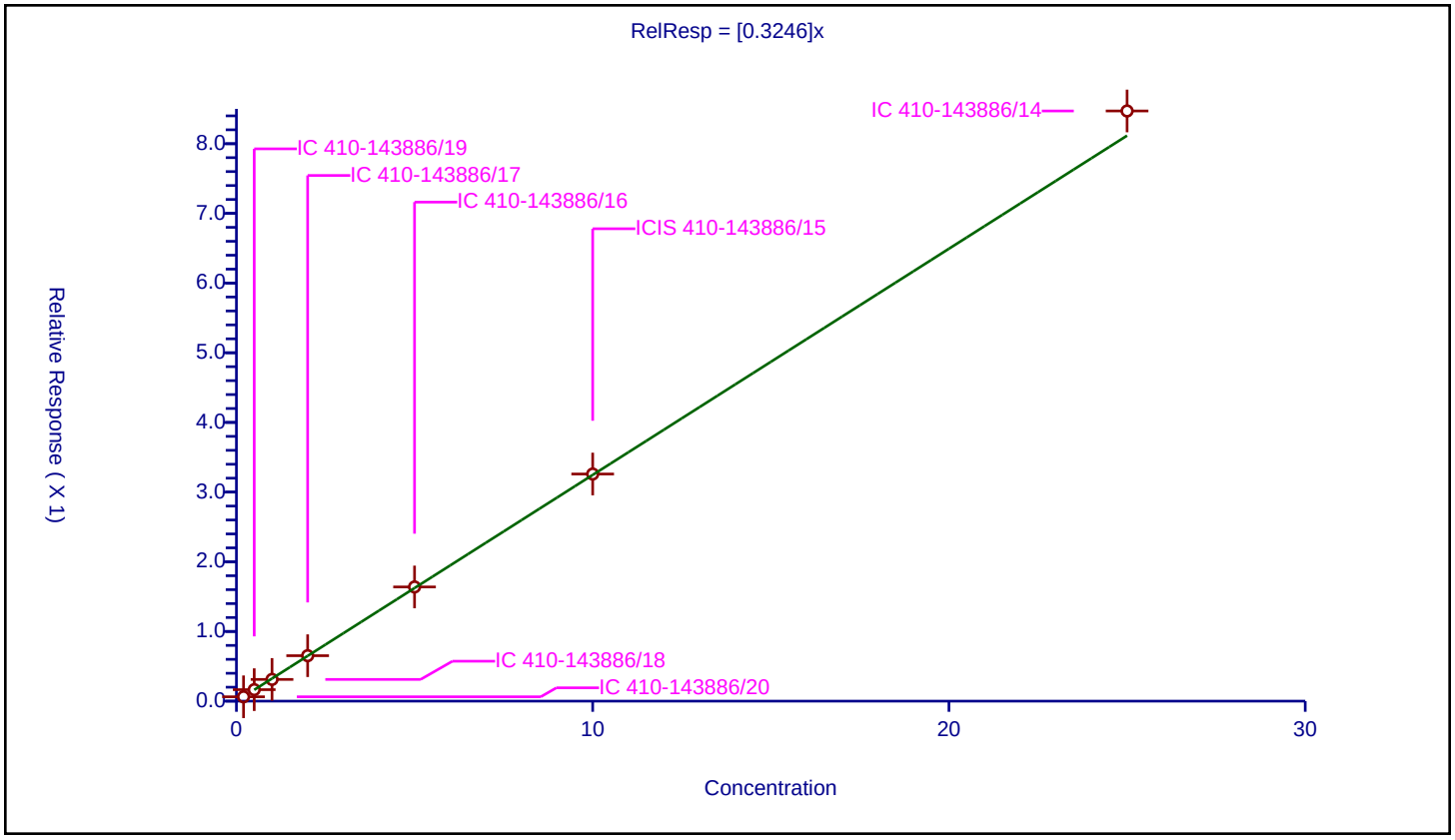
Curve Coefficients

Intercept:	0
Slope:	0.3246

Error Coefficients

Standard Error:	648000
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 410-143886/20	0.2	0.062461	10.0	1708734.0	0.312307	Y
2	IC 410-143886/19	0.5	0.164886	10.0	1704998.0	0.329772	Y
3	IC 410-143886/18	1.0	0.311784	10.0	1761735.0	0.311784	Y
4	IC 410-143886/17	2.0	0.652316	10.0	1742684.0	0.326158	Y
5	IC 410-143886/16	5.0	1.638773	10.0	1752836.0	0.327755	Y
6	ICIS 410-143886/15	10.0	3.25963	10.0	1741980.0	0.325963	Y
7	IC 410-143886/14	25.0	8.470053	10.0	1709928.0	0.338802	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

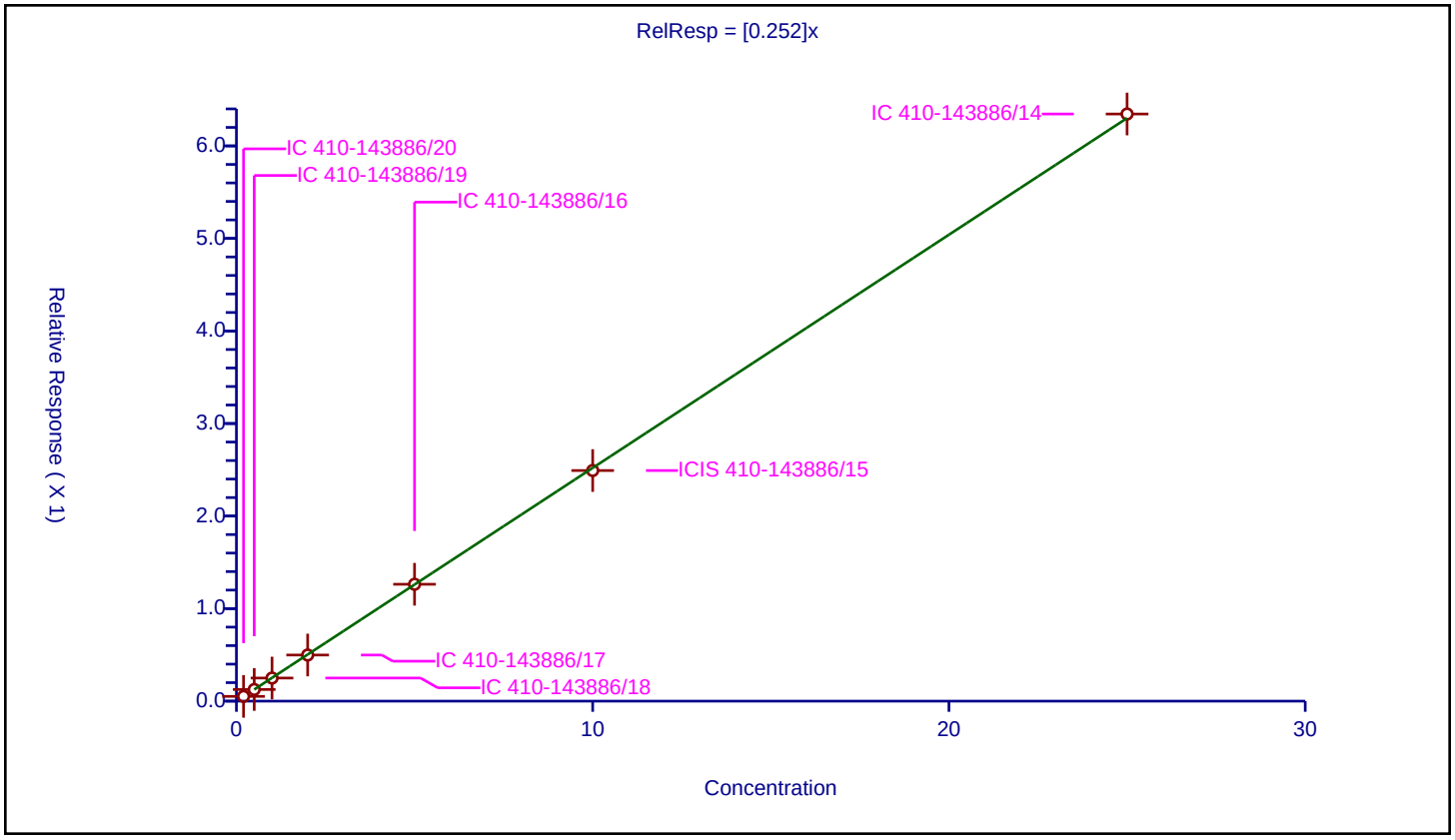
Curve Coefficients

Intercept:	0
Slope:	0.252

Error Coefficients

Standard Error:	487000
Relative Standard Error:	1.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	0.051494	10.0	1708734.0	0.257471	Y
2	IC 410-143886/19	0.5	0.126059	10.0	1704998.0	0.252118	Y
3	IC 410-143886/18	1.0	0.249737	10.0	1761735.0	0.249737	Y
4	IC 410-143886/17	2.0	0.498335	10.0	1742684.0	0.249167	Y
5	IC 410-143886/16	5.0	1.262953	10.0	1752836.0	0.252591	Y
6	ICIS 410-143886/15	10.0	2.492015	10.0	1741980.0	0.249201	Y
7	IC 410-143886/14	25.0	6.344793	10.0	1709928.0	0.253792	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

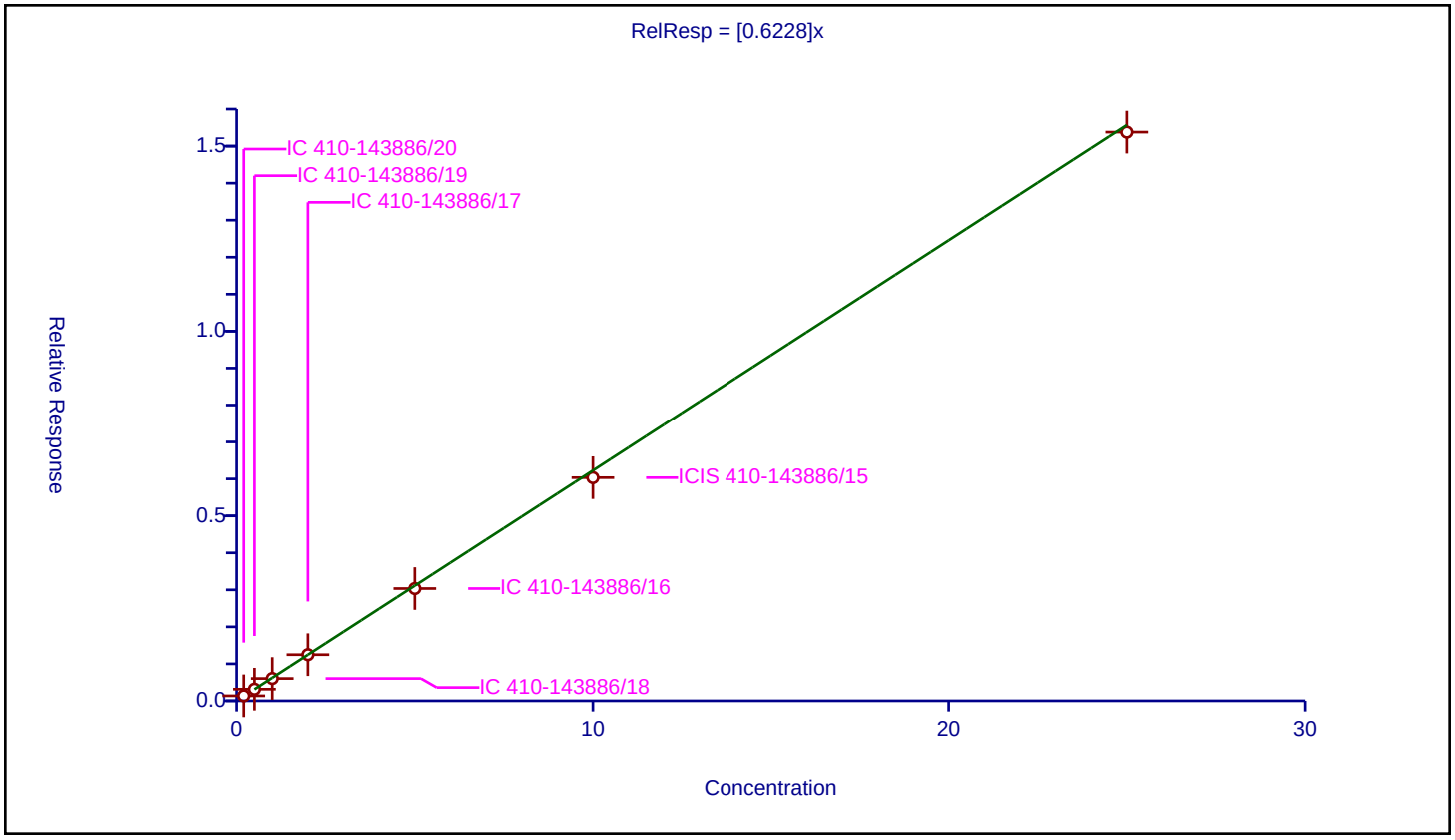
Curve Coefficients

Intercept:	0
Slope:	0.6228

Error Coefficients

Standard Error:	1180000
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 410-143886/20	0.2	0.13551	10.0	1708734.0	0.677548	Y
2	IC 410-143886/19	0.5	0.314528	10.0	1704998.0	0.629056	Y
3	IC 410-143886/18	1.0	0.603649	10.0	1761735.0	0.603649	Y
4	IC 410-143886/17	2.0	1.247048	10.0	1742684.0	0.623524	Y
5	IC 410-143886/16	5.0	3.036331	10.0	1752836.0	0.607266	Y
6	ICIS 410-143886/15	10.0	6.03515	10.0	1741980.0	0.603515	Y
7	IC 410-143886/14	25.0	15.378045	10.0	1709928.0	0.615122	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

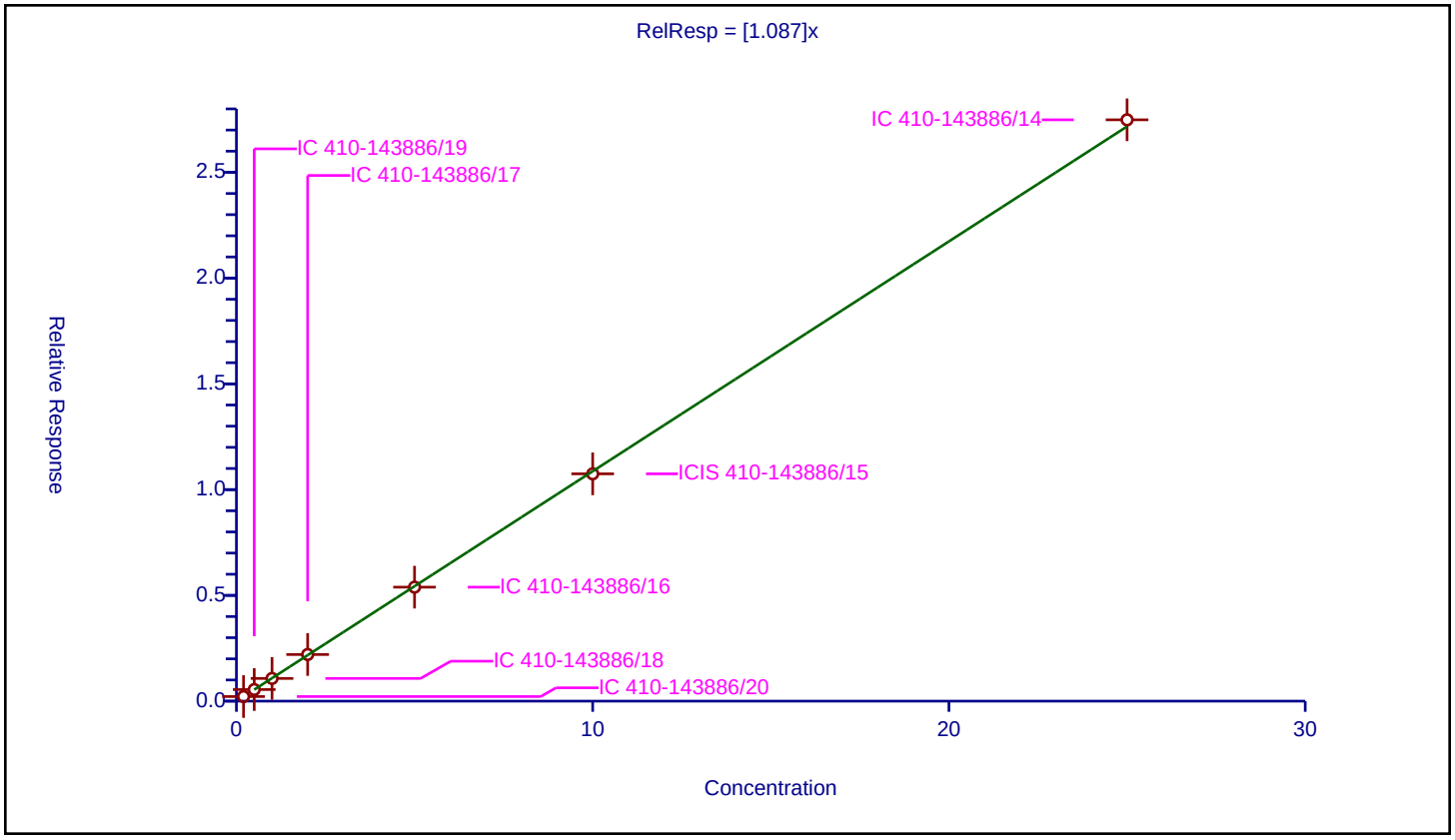
Curve Coefficients

Intercept:	0
Slope:	1.087

Error Coefficients

Standard Error:	2110000
Relative Standard Error:	1.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	0.216734	10.0	1708734.0	1.083668	Y
2	IC 410-143886/19	0.5	0.548012	10.0	1704998.0	1.096025	Y
3	IC 410-143886/18	1.0	1.073623	10.0	1761735.0	1.073623	Y
4	IC 410-143886/17	2.0	2.204324	10.0	1742684.0	1.102162	Y
5	IC 410-143886/16	5.0	5.389318	10.0	1752836.0	1.077864	Y
6	ICIS 410-143886/15	10.0	10.746306	10.0	1741980.0	1.074631	Y
7	IC 410-143886/14	25.0	27.484134	10.0	1709928.0	1.099365	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

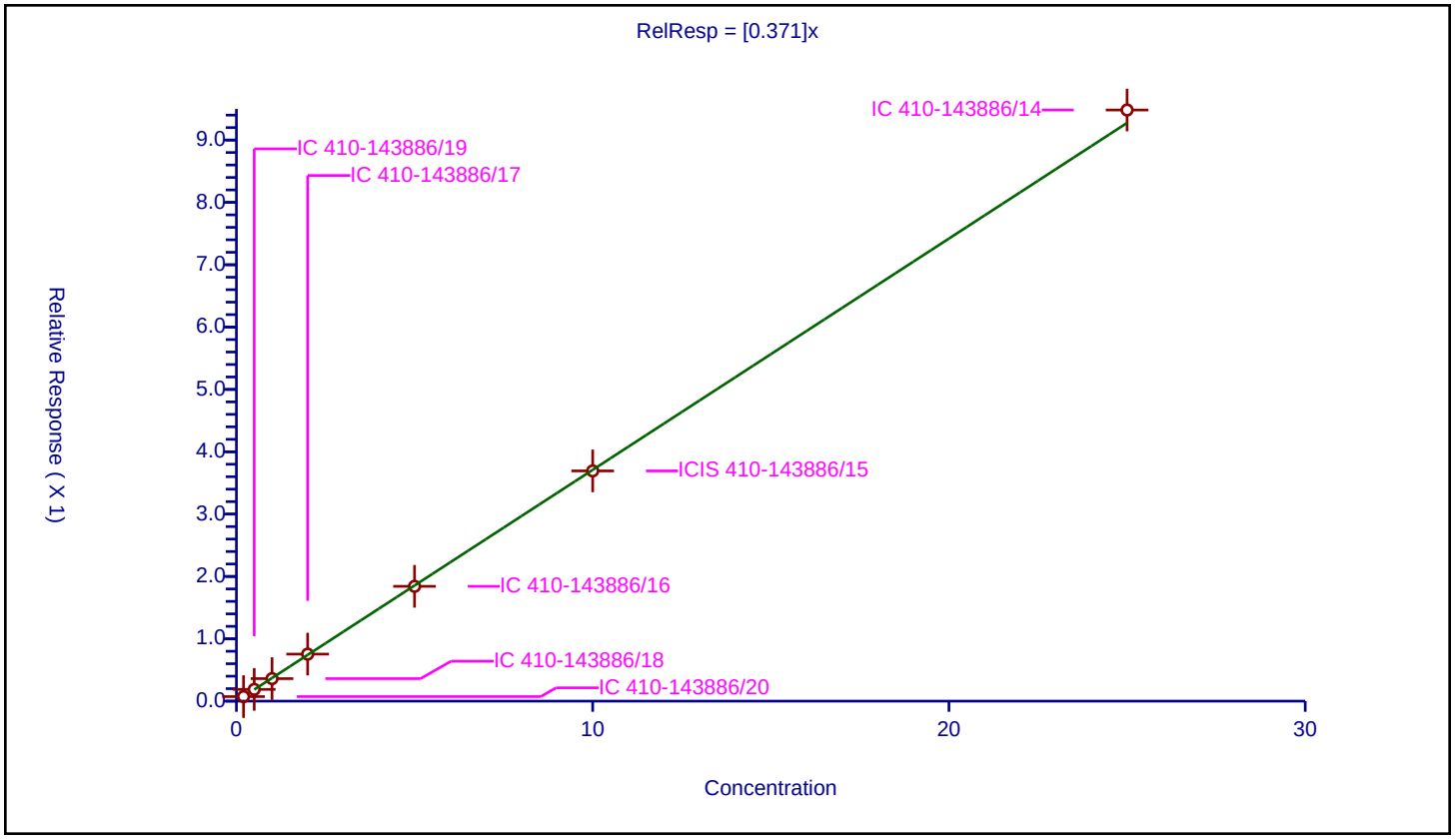
Curve Coefficients

Intercept:	0
Slope:	0.371

Error Coefficients

Standard Error:	727000
Relative Standard Error:	1.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	0.072972	10.0	1708734.0	0.364861	Y
2	IC 410-143886/19	0.5	0.188387	10.0	1704998.0	0.376775	Y
3	IC 410-143886/18	1.0	0.36132	10.0	1761735.0	0.36132	Y
4	IC 410-143886/17	2.0	0.754296	10.0	1742684.0	0.377148	Y
5	IC 410-143886/16	5.0	1.841536	10.0	1752836.0	0.368307	Y
6	ICIS 410-143886/15	10.0	3.693091	10.0	1741980.0	0.369309	Y
7	IC 410-143886/14	25.0	9.482206	10.0	1709928.0	0.379288	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

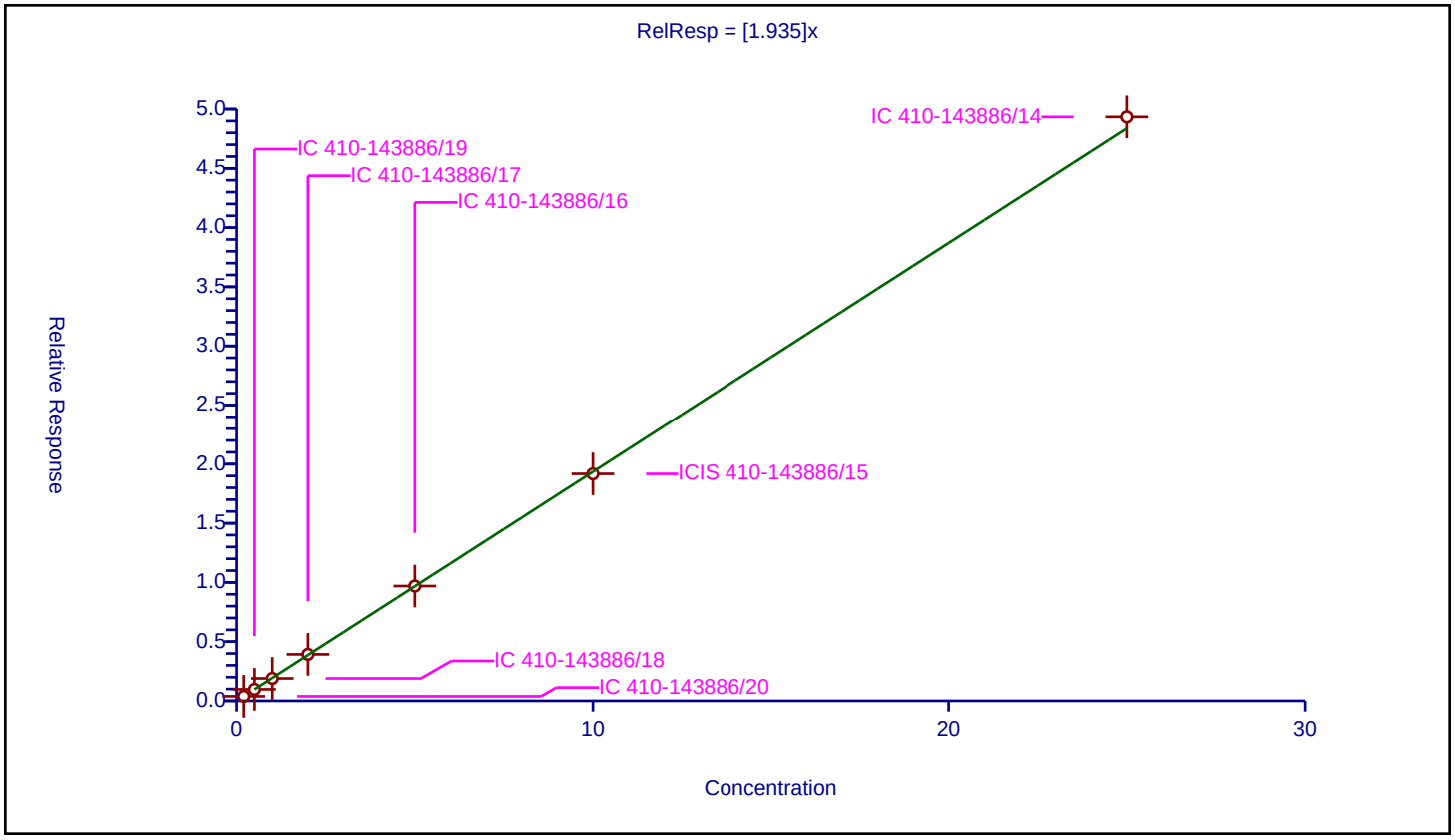
Curve Coefficients

Intercept:	0
Slope:	1.935

Error Coefficients

Standard Error:	3780000
Relative Standard Error:	1.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	0.382944	10.0	1708734.0	1.914722	Y
2	IC 410-143886/19	0.5	0.972077	10.0	1704998.0	1.944155	Y
3	IC 410-143886/18	1.0	1.893497	10.0	1761735.0	1.893497	Y
4	IC 410-143886/17	2.0	3.926552	10.0	1742684.0	1.963276	Y
5	IC 410-143886/16	5.0	9.693759	10.0	1752836.0	1.938752	Y
6	ICIS 410-143886/15	10.0	19.179101	10.0	1741980.0	1.91791	Y
7	IC 410-143886/14	25.0	49.342183	10.0	1709928.0	1.973687	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

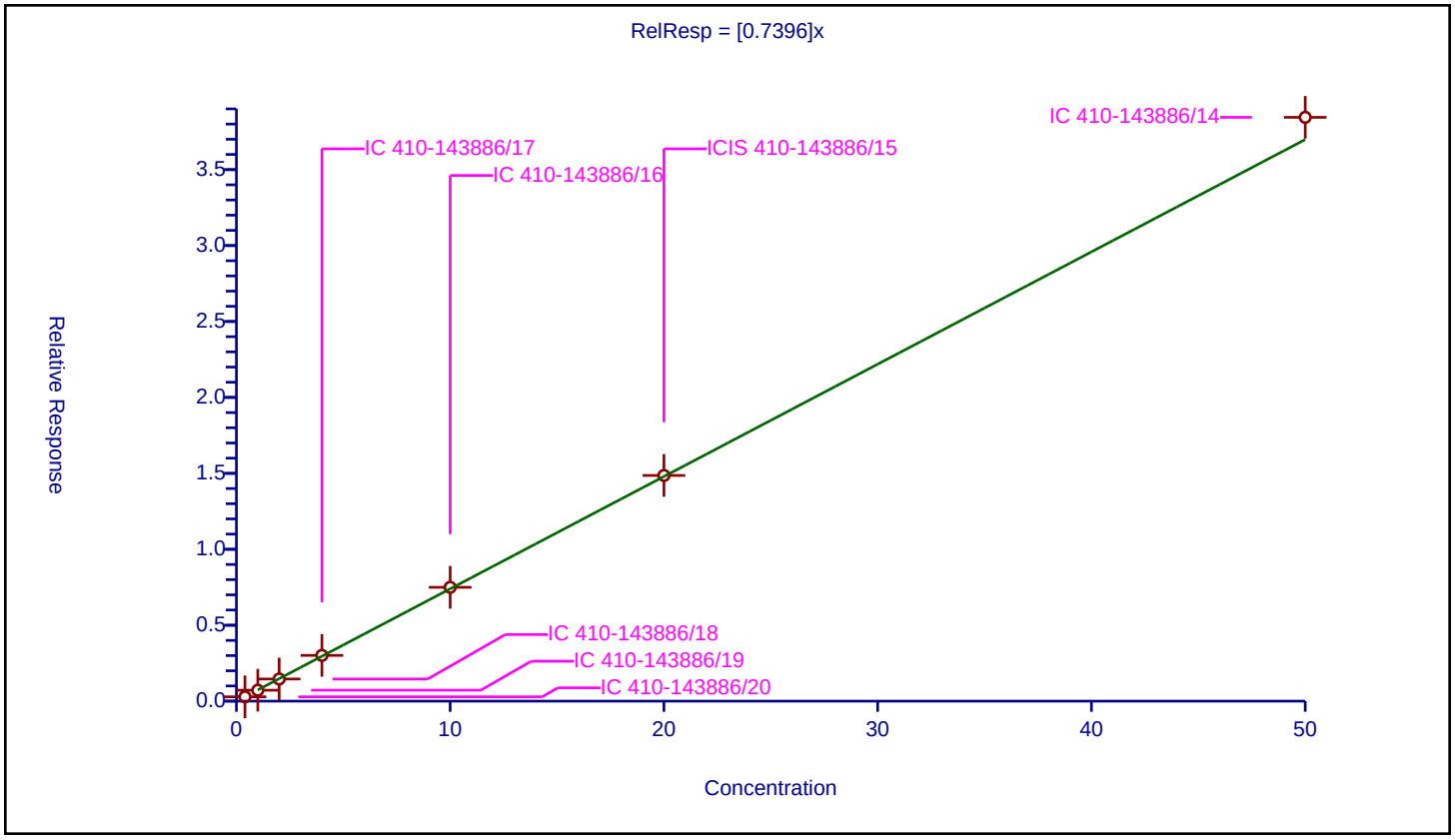
Curve Coefficients

Intercept:	0
Slope:	0.7396

Error Coefficients

Standard Error:	2940000
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 410-143886/20	0.4	0.285094	10.0	1708734.0	0.712735	Y
2	IC 410-143886/19	1.0	0.72057	10.0	1704998.0	0.72057	Y
3	IC 410-143886/18	2.0	1.459152	10.0	1761735.0	0.729576	Y
4	IC 410-143886/17	4.0	3.011912	10.0	1742684.0	0.752978	Y
5	IC 410-143886/16	10.0	7.495887	10.0	1752836.0	0.749589	Y
6	ICIS 410-143886/15	20.0	14.860911	10.0	1741980.0	0.743046	Y
7	IC 410-143886/14	50.0	38.443835	10.0	1709928.0	0.768877	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

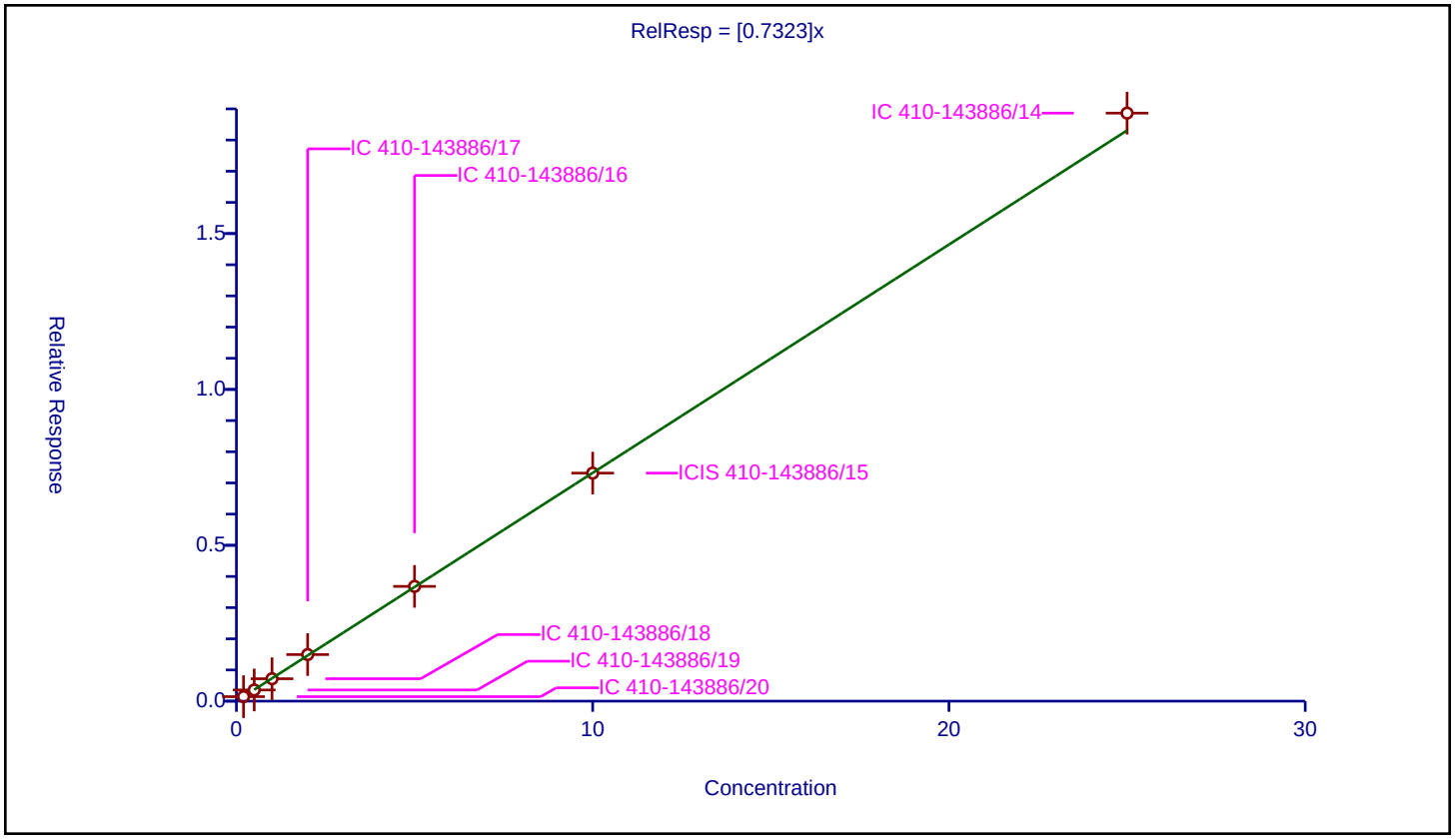
Curve Coefficients

Intercept:	0
Slope:	0.7323

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	0.144253	10.0	1708734.0	0.721265	Y
2	IC 410-143886/19	0.5	0.358646	10.0	1704998.0	0.717291	Y
3	IC 410-143886/18	1.0	0.718615	10.0	1761735.0	0.718615	Y
4	IC 410-143886/17	2.0	1.493644	10.0	1742684.0	0.746822	Y
5	IC 410-143886/16	5.0	3.681109	10.0	1752836.0	0.736222	Y
6	ICIS 410-143886/15	10.0	7.315497	10.0	1741980.0	0.73155	Y
7	IC 410-143886/14	25.0	18.864116	10.0	1709928.0	0.754565	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

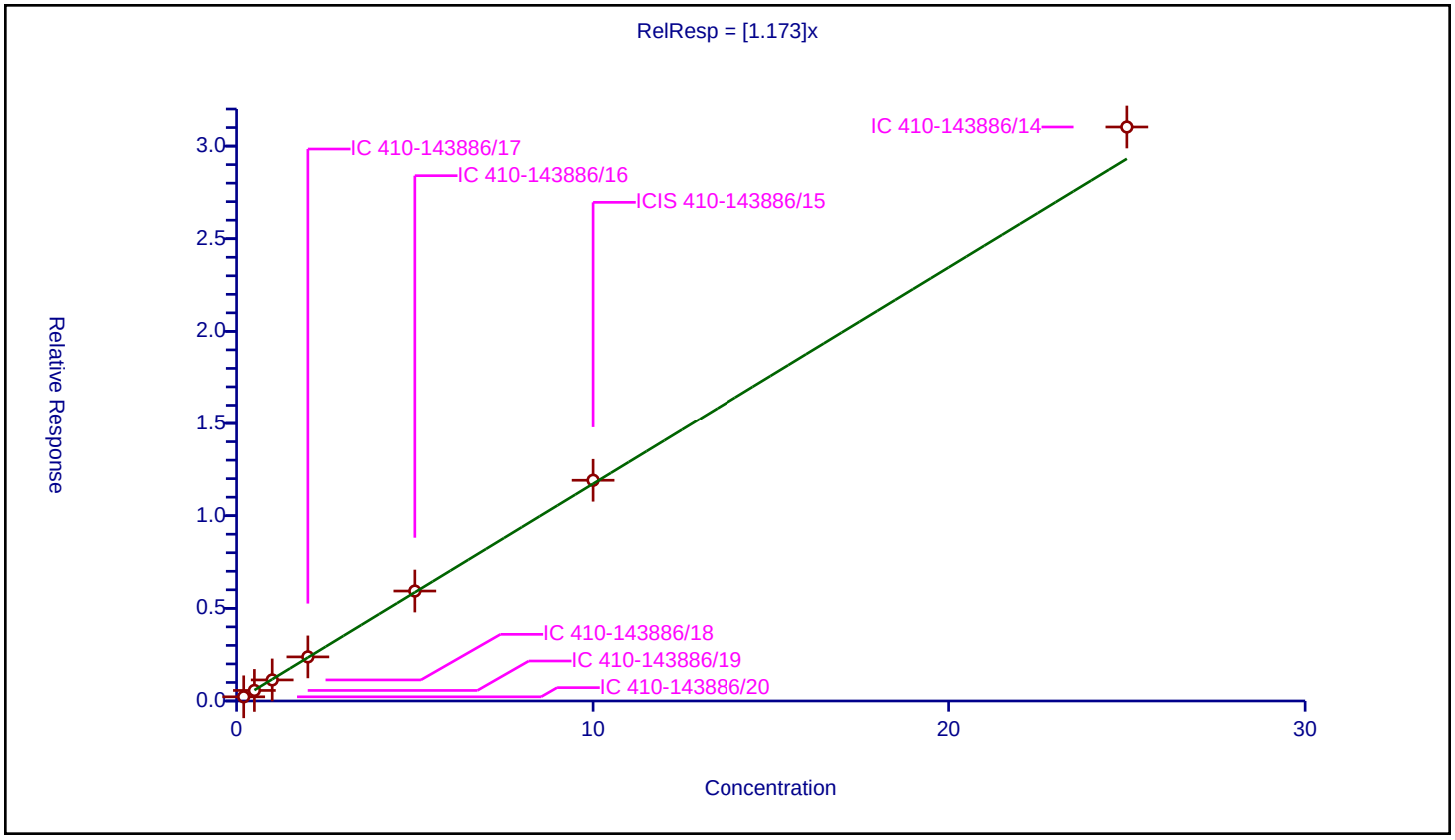
Curve Coefficients

Intercept:	0
Slope:	1.173

Error Coefficients

Standard Error:	2370000
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 410-143886/20	0.2	0.225155	10.0	1708734.0	1.125775	Y
2	IC 410-143886/19	0.5	0.569033	10.0	1704998.0	1.138066	Y
3	IC 410-143886/18	1.0	1.135449	10.0	1761735.0	1.135449	Y
4	IC 410-143886/17	2.0	2.379043	10.0	1742684.0	1.189521	Y
5	IC 410-143886/16	5.0	5.934275	10.0	1752836.0	1.186855	Y
6	ICIS 410-143886/15	10.0	11.91326	10.0	1741980.0	1.191326	Y
7	IC 410-143886/14	25.0	31.030675	10.0	1709928.0	1.241227	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

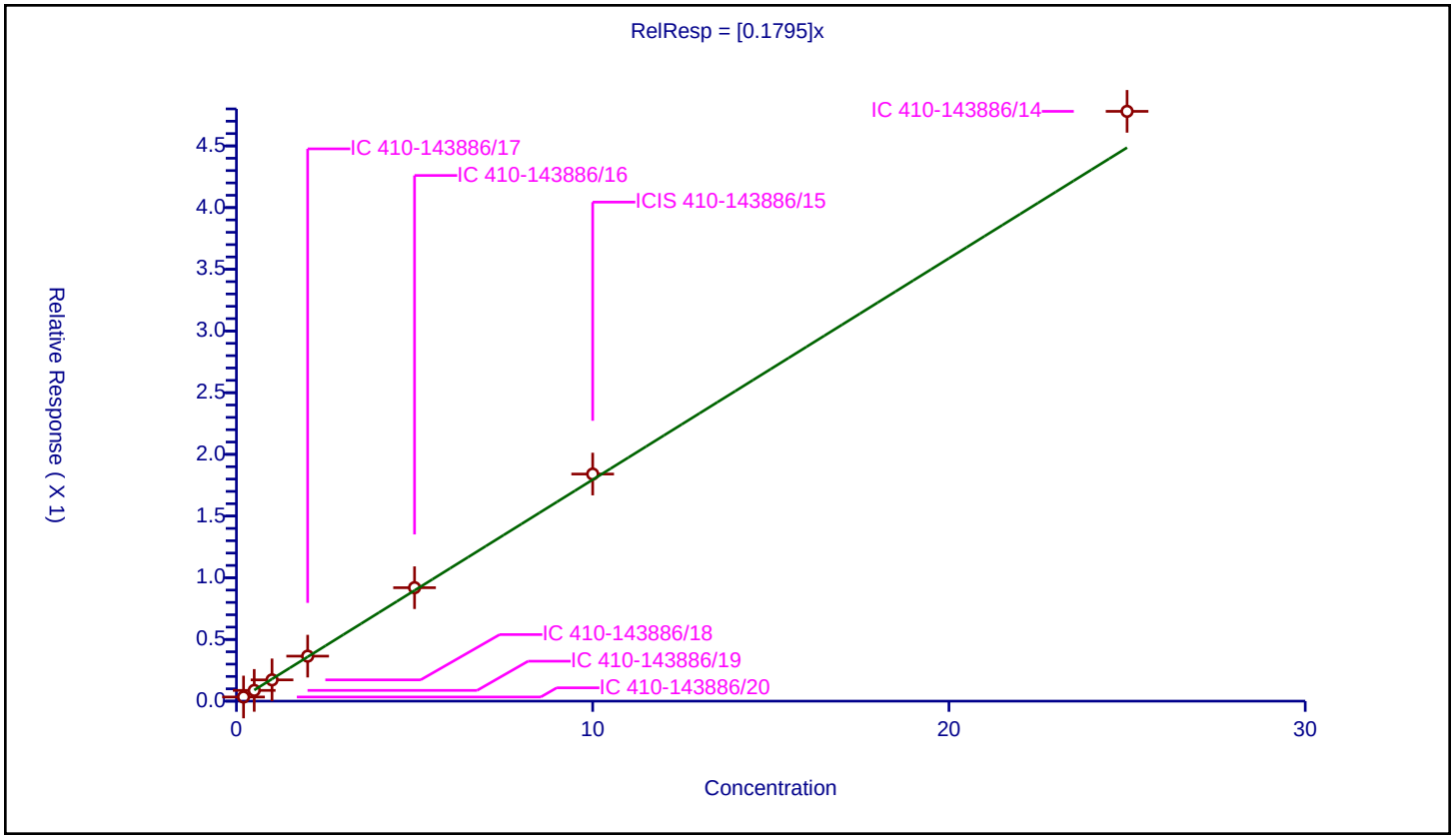
Curve Coefficients

Intercept:	0
Slope:	0.1795

Error Coefficients

Standard Error:	366000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	0.033651	10.0	1708734.0	0.168253	Y
2	IC 410-143886/19	0.5	0.087085	10.0	1704998.0	0.17417	Y
3	IC 410-143886/18	1.0	0.172268	10.0	1761735.0	0.172268	Y
4	IC 410-143886/17	2.0	0.36465	10.0	1742684.0	0.182325	Y
5	IC 410-143886/16	5.0	0.919527	10.0	1752836.0	0.183905	Y
6	ICIS 410-143886/15	10.0	1.840457	10.0	1741980.0	0.184046	Y
7	IC 410-143886/14	25.0	4.78009	10.0	1709928.0	0.191204	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

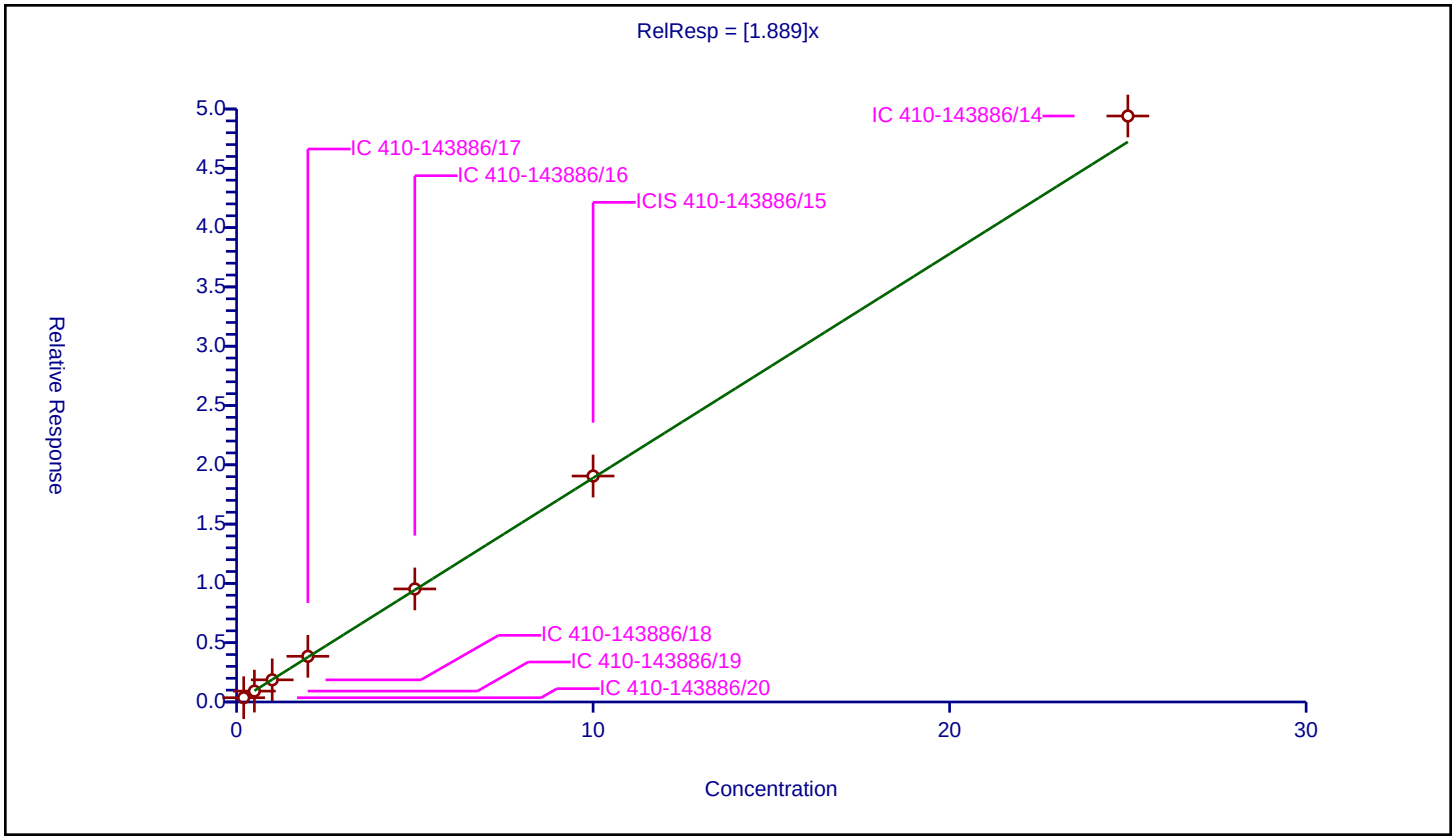
Curve Coefficients

Intercept:	0
Slope:	1.889

Error Coefficients

Standard Error:	3780000
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 410-143886/20	0.2	0.360905	10.0	1708734.0	1.804523	Y
2	IC 410-143886/19	0.5	0.918863	10.0	1704998.0	1.837726	Y
3	IC 410-143886/18	1.0	1.867948	10.0	1761735.0	1.867948	Y
4	IC 410-143886/17	2.0	3.851989	10.0	1742684.0	1.925995	Y
5	IC 410-143886/16	5.0	9.532352	10.0	1752836.0	1.90647	Y
6	ICIS 410-143886/15	10.0	19.052475	10.0	1741980.0	1.905247	Y
7	IC 410-143886/14	25.0	49.411958	10.0	1709928.0	1.976478	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

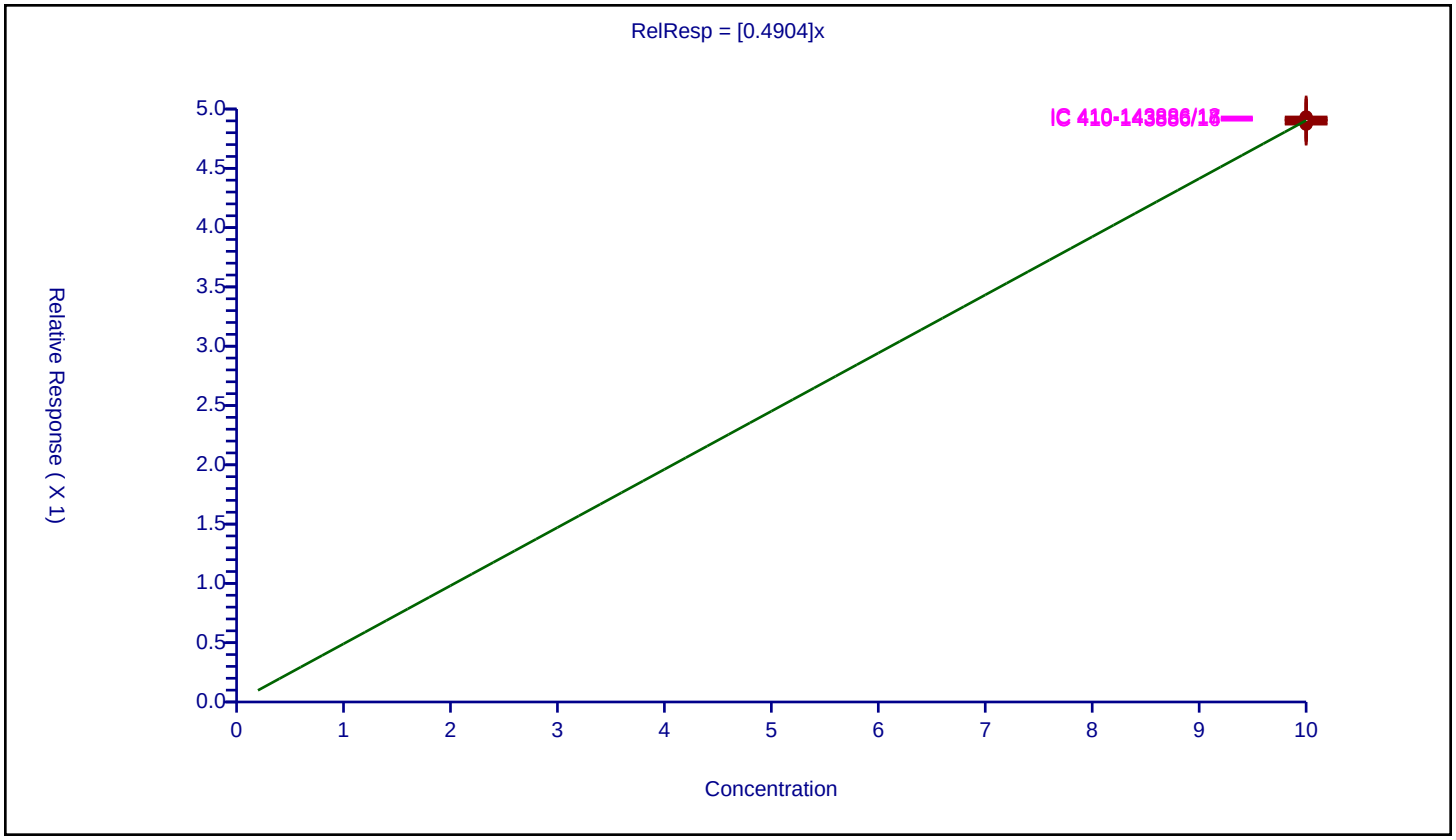
Curve Coefficients

Intercept:	0
Slope:	0.4904

Error Coefficients

Standard Error:	917000
Relative Standard Error:	0.4
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/14	10.0	4.906014	10.0	1709928.0	0.490601	Y
2	ICIS 410-143886/15	10.0	4.900395	10.0	1741980.0	0.490039	Y
3	IC 410-143886/16	10.0	4.909569	10.0	1752836.0	0.490957	Y
4	IC 410-143886/17	10.0	4.92169	10.0	1742684.0	0.492169	Y
5	IC 410-143886/18	10.0	4.932933	10.0	1761735.0	0.493293	Y
6	IC 410-143886/19	10.0	4.872311	10.0	1704998.0	0.487231	Y
7	IC 410-143886/20	10.0	4.881591	10.0	1708734.0	0.488159	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

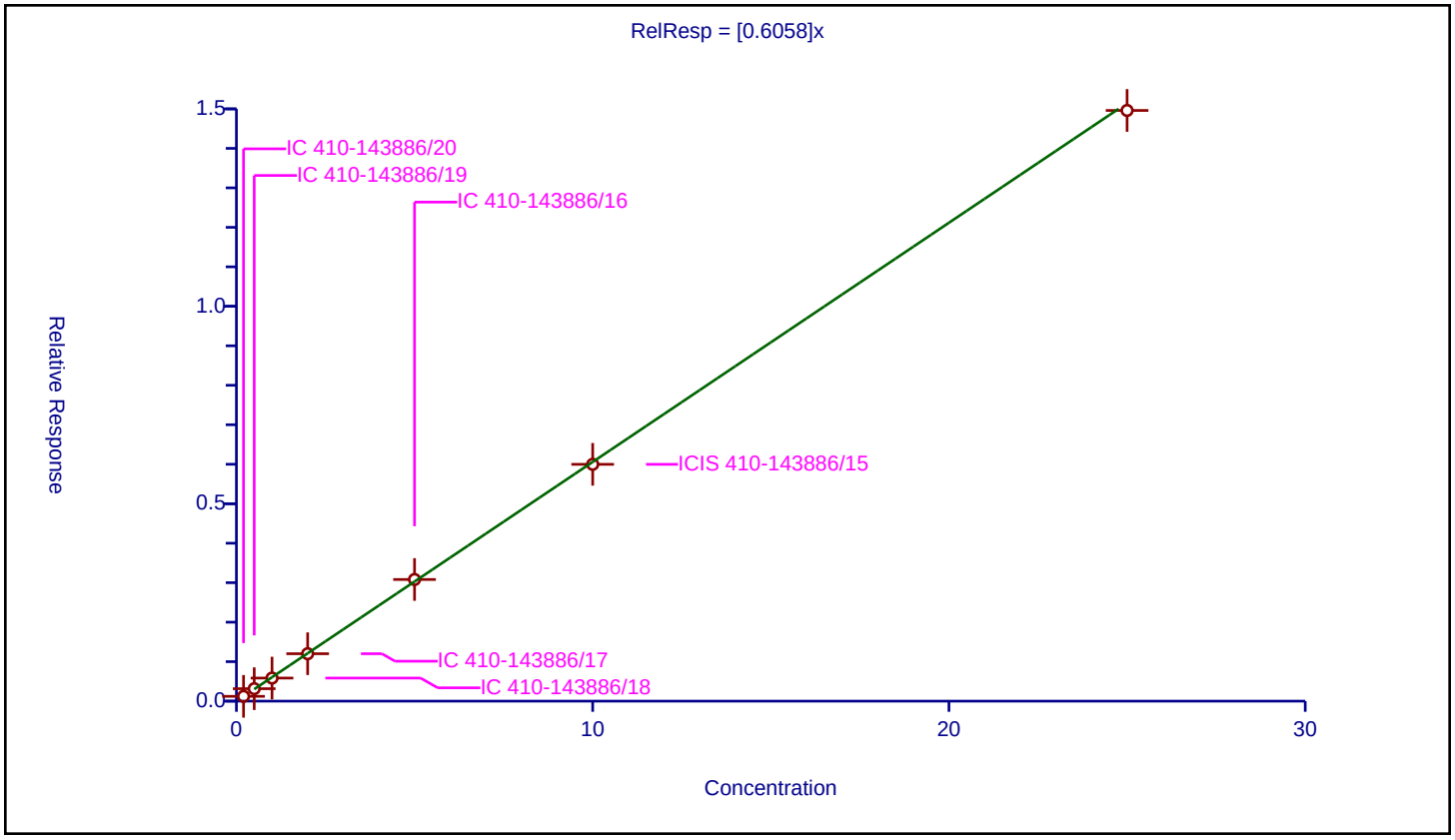
Curve Coefficients

Intercept:	0
Slope:	0.6058

Error Coefficients

Standard Error:	613000
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 410-143886/20	0.2	0.122076	10.0	908776.0	0.610381	Y
2	IC 410-143886/19	0.5	0.315159	10.0	894470.0	0.630317	Y
3	IC 410-143886/18	1.0	0.584839	10.0	931316.0	0.584839	Y
4	IC 410-143886/17	2.0	1.201187	10.0	925401.0	0.600594	Y
5	IC 410-143886/16	5.0	3.081159	10.0	929147.0	0.616232	Y
6	ICIS 410-143886/15	10.0	5.99791	10.0	925399.0	0.599791	Y
7	IC 410-143886/14	25.0	14.960158	10.0	909469.0	0.598406	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

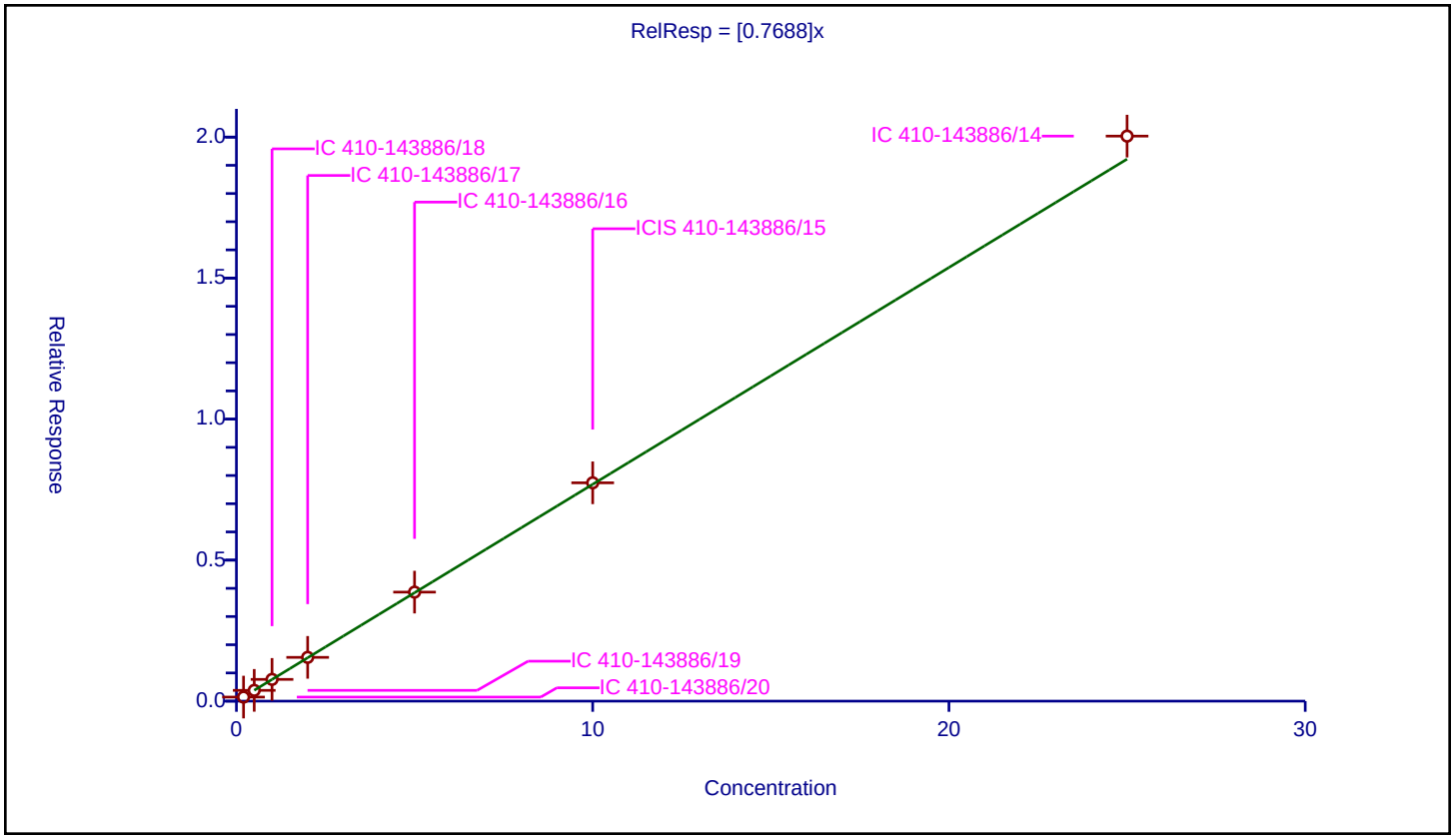
Curve Coefficients

Intercept:	0
Slope:	0.7688

Error Coefficients

Standard Error:	815000
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 410-143886/20	0.2	0.14448	10.0	908776.0	0.7224	Y
2	IC 410-143886/19	0.5	0.381611	10.0	894470.0	0.763223	Y
3	IC 410-143886/18	1.0	0.771199	10.0	931316.0	0.771199	Y
4	IC 410-143886/17	2.0	1.552192	10.0	925401.0	0.776096	Y
5	IC 410-143886/16	5.0	3.865589	10.0	929147.0	0.773118	Y
6	ICIS 410-143886/15	10.0	7.741569	10.0	925399.0	0.774157	Y
7	IC 410-143886/14	25.0	20.03479	10.0	909469.0	0.801392	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

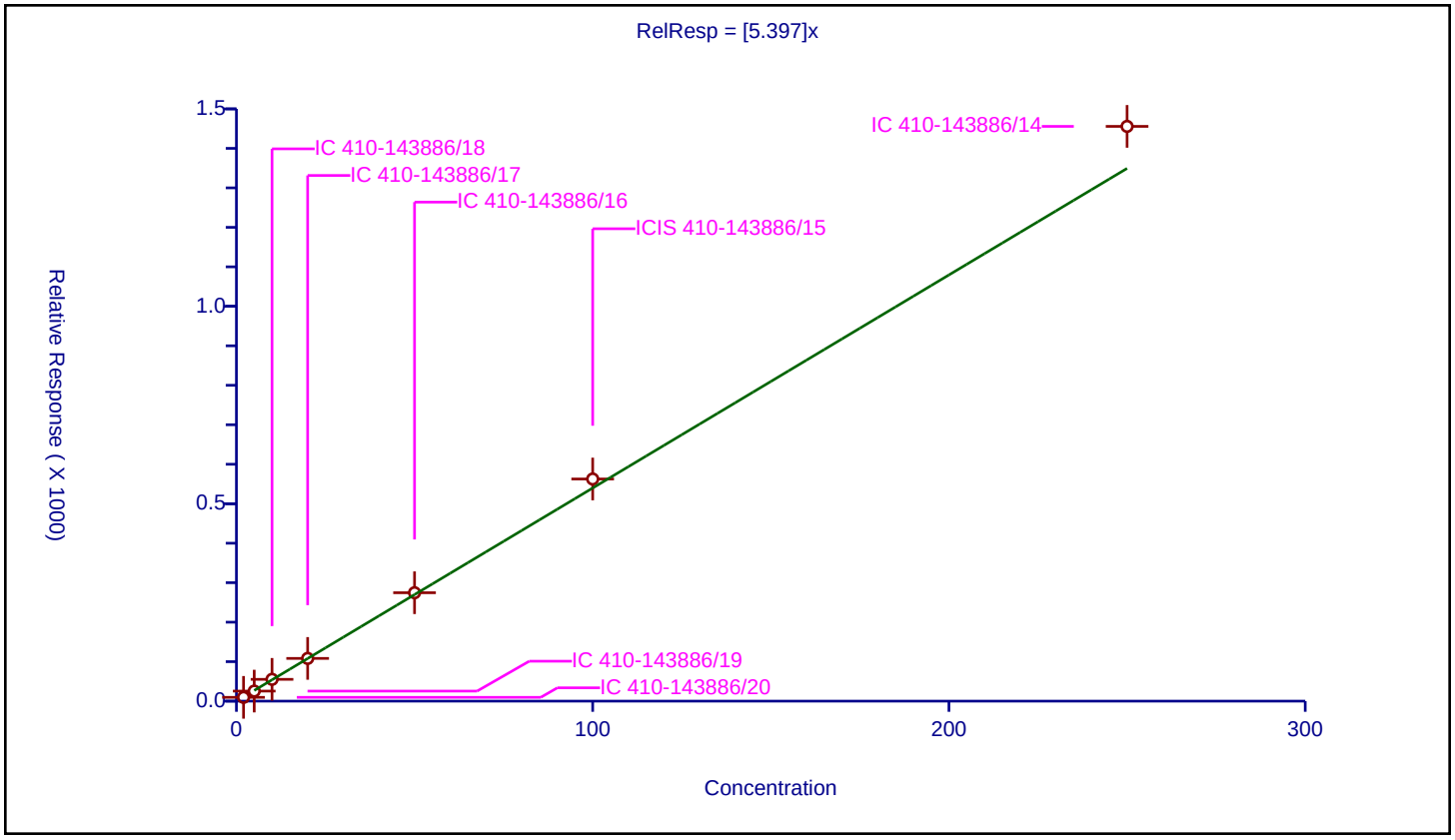
Curve Coefficients

Intercept:	0
Slope:	5.397

Error Coefficients

Standard Error:	1570000
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 410-143886/20	2.0	9.613938	50.0	126301.0	4.806969	Y
2	IC 410-143886/19	5.0	25.481846	50.0	128101.0	5.096369	Y
3	IC 410-143886/18	10.0	55.245322	50.0	127180.0	5.524532	Y
4	IC 410-143886/17	20.0	108.249073	50.0	130548.0	5.412454	Y
5	IC 410-143886/16	50.0	274.576005	50.0	130308.0	5.49152	Y
6	ICIS 410-143886/15	100.0	562.610591	50.0	123880.0	5.626106	Y
7	IC 410-143886/14	250.0	1455.663484	50.0	120244.0	5.822654	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

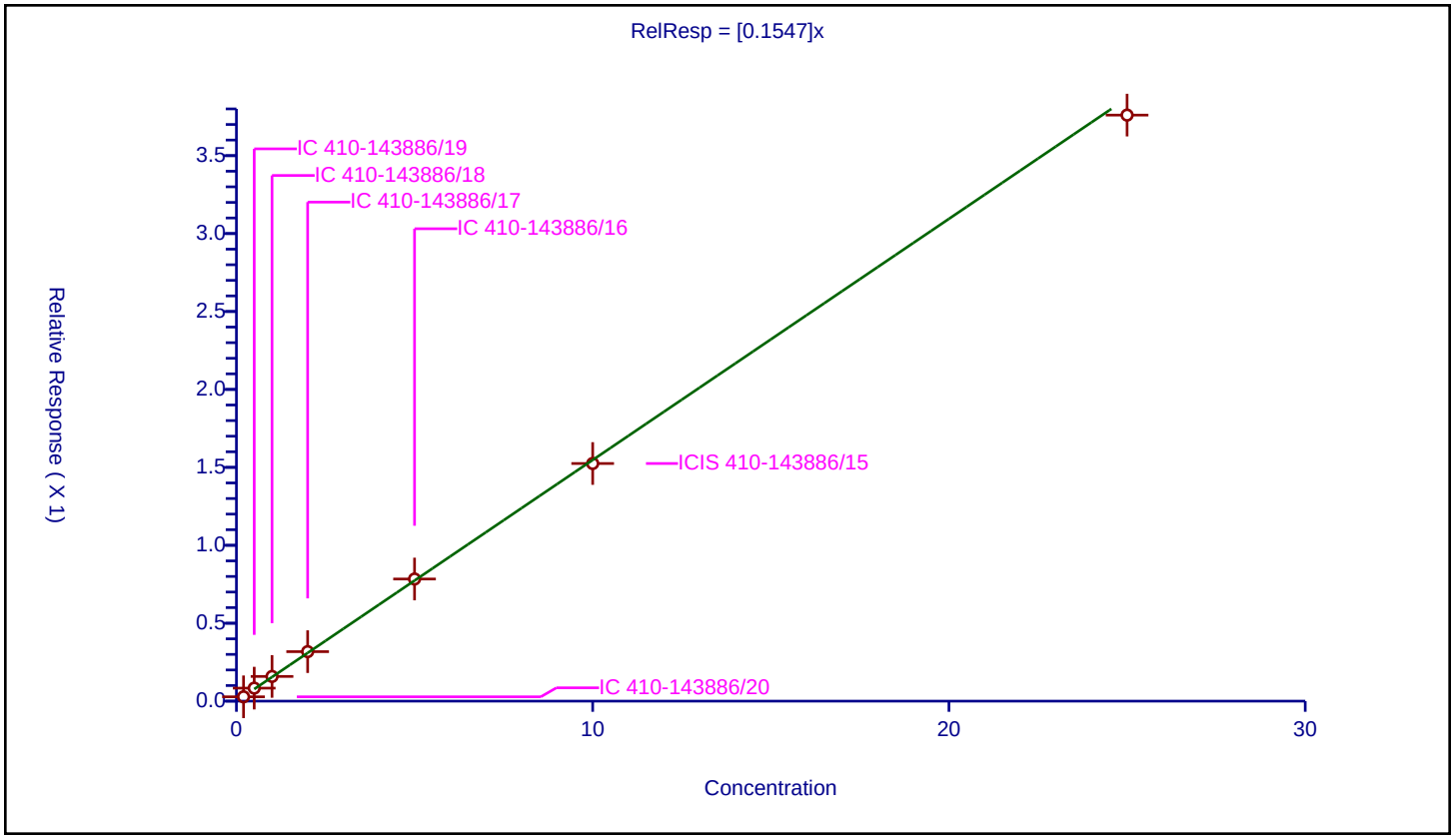
Curve Coefficients

Intercept:	0
Slope:	0.1547

Error Coefficients

Standard Error:	155000
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 410-143886/20	0.2	0.027829	10.0	908776.0	0.139143	Y
2	IC 410-143886/19	0.5	0.083536	10.0	894470.0	0.167071	Y
3	IC 410-143886/18	1.0	0.158485	10.0	931316.0	0.158485	Y
4	IC 410-143886/17	2.0	0.317592	10.0	925401.0	0.158796	Y
5	IC 410-143886/16	5.0	0.783643	10.0	929147.0	0.156729	Y
6	ICIS 410-143886/15	10.0	1.524683	10.0	925399.0	0.152468	Y
7	IC 410-143886/14	25.0	3.760172	10.0	909469.0	0.150407	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

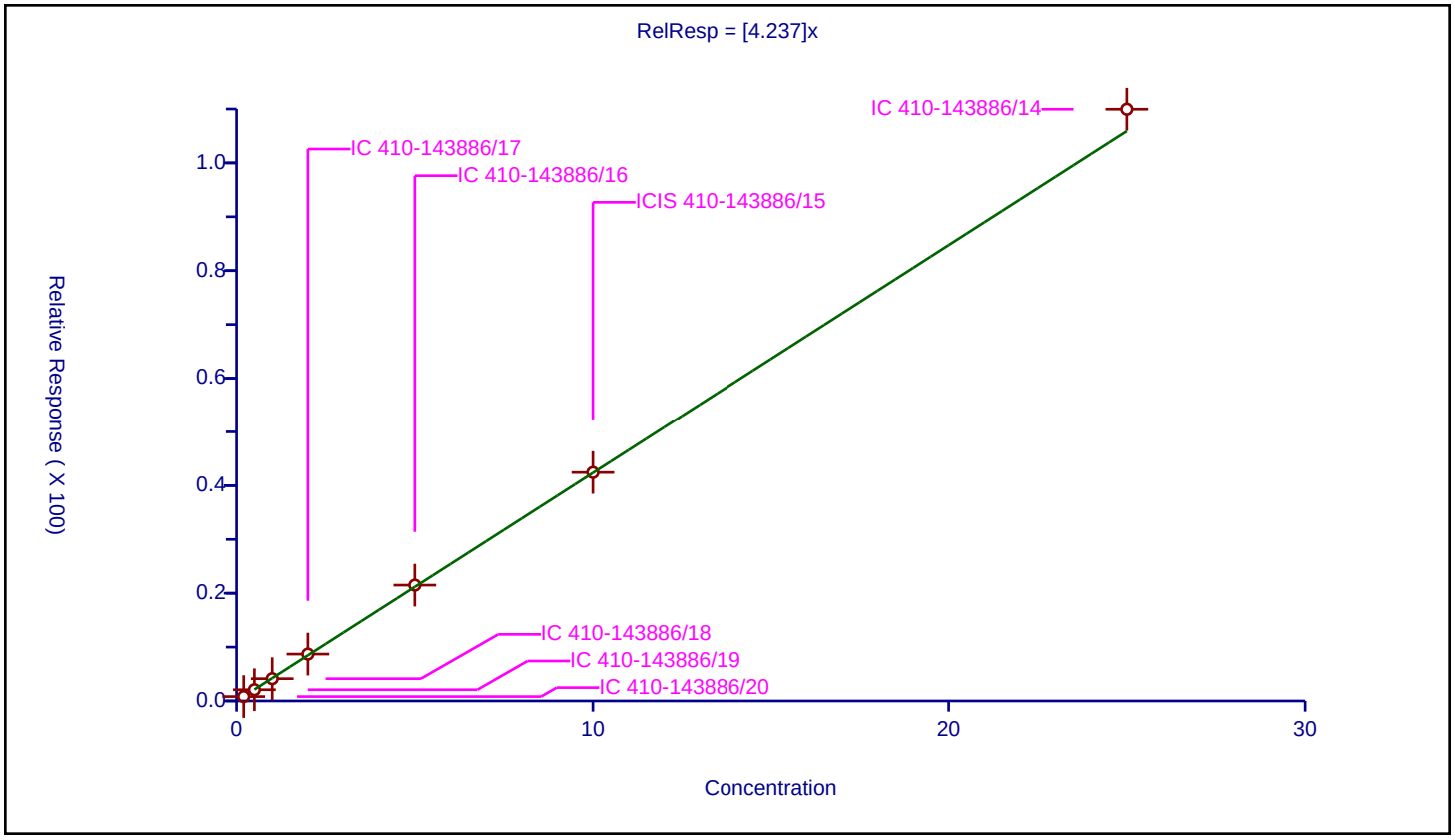
Curve Coefficients

Intercept:	0
Slope:	4.237

Error Coefficients

Standard Error:	4480000
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 410-143886/20	0.2	0.811454	10.0	908776.0	4.05727	Y
2	IC 410-143886/19	0.5	2.08329	10.0	894470.0	4.166579	Y
3	IC 410-143886/18	1.0	4.137114	10.0	931316.0	4.137114	Y
4	IC 410-143886/17	2.0	8.70172	10.0	925401.0	4.35086	Y
5	IC 410-143886/16	5.0	21.504466	10.0	929147.0	4.300893	Y
6	ICIS 410-143886/15	10.0	42.448425	10.0	925399.0	4.244842	Y
7	IC 410-143886/14	25.0	109.956667	10.0	909469.0	4.398267	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

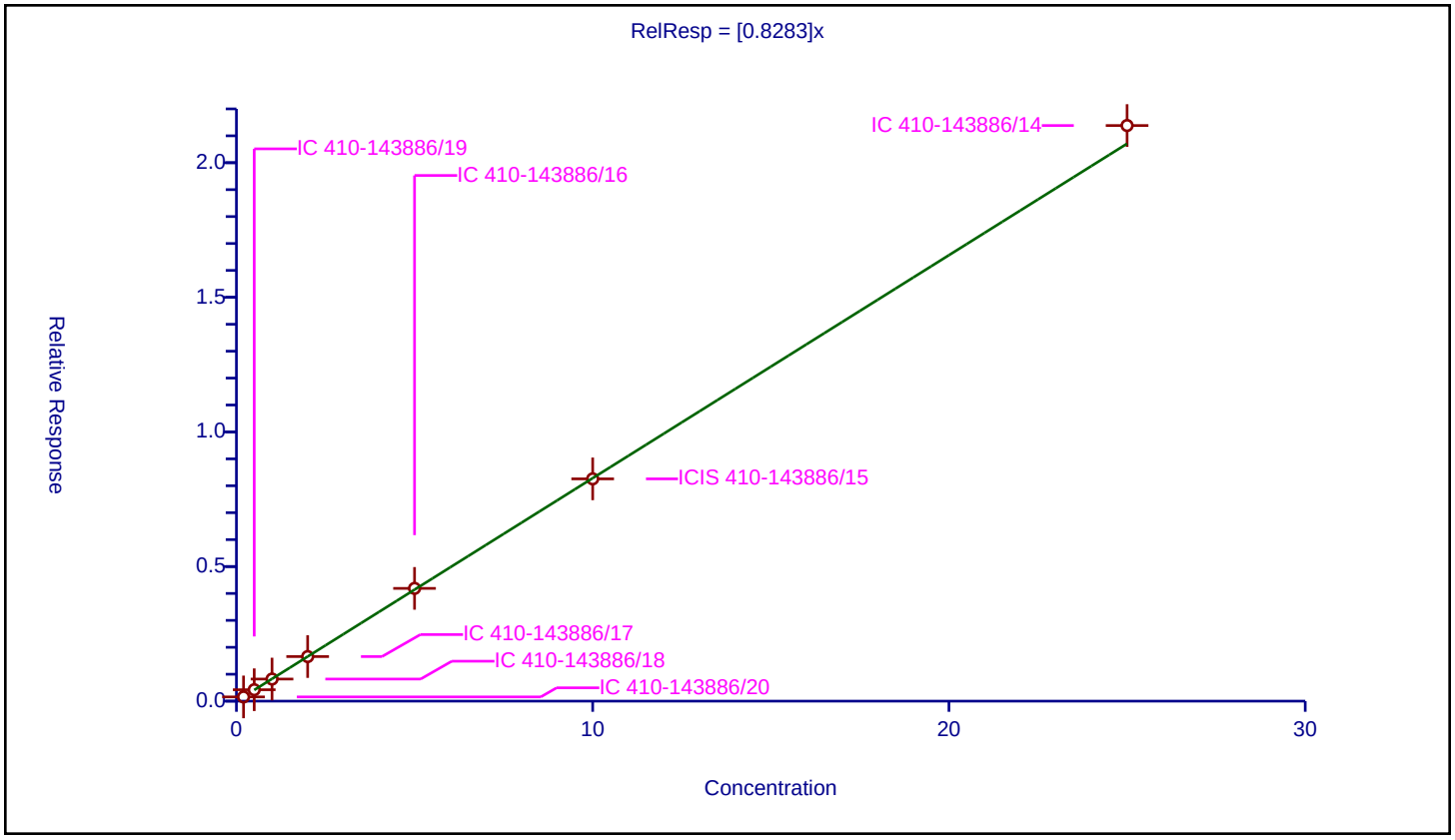
Curve Coefficients

Intercept:	0
Slope:	0.8283

Error Coefficients

Standard Error:	871000
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 410-143886/20	0.2	0.156496	10.0	908776.0	0.782481	Y
2	IC 410-143886/19	0.5	0.424419	10.0	894470.0	0.848838	Y
3	IC 410-143886/18	1.0	0.820549	10.0	931316.0	0.820549	Y
4	IC 410-143886/17	2.0	1.655207	10.0	925401.0	0.827603	Y
5	IC 410-143886/16	5.0	4.188767	10.0	929147.0	0.837753	Y
6	ICIS 410-143886/15	10.0	8.256784	10.0	925399.0	0.825678	Y
7	IC 410-143886/14	25.0	21.381828	10.0	909469.0	0.855273	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

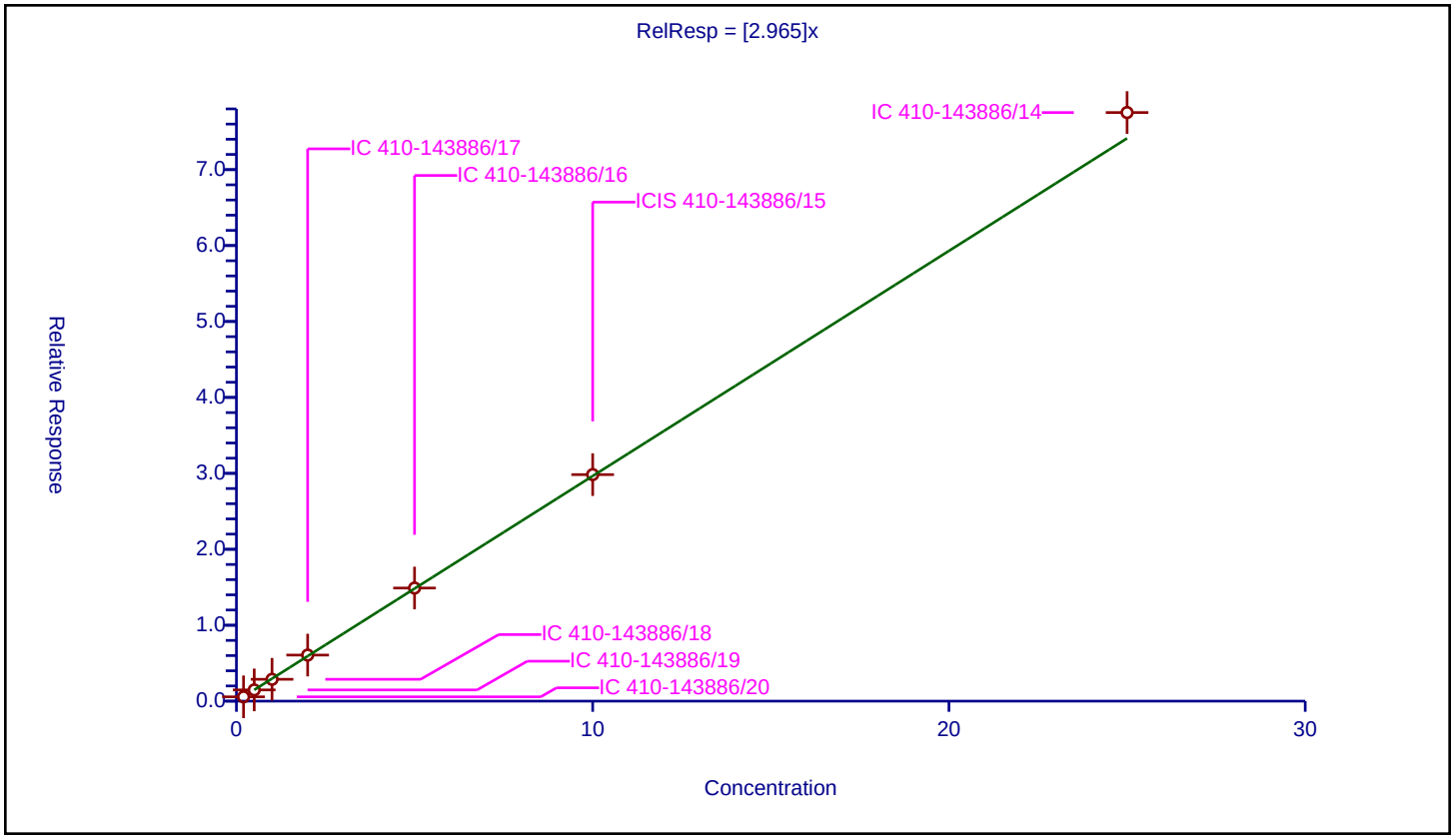
Curve Coefficients

Intercept:	0
Slope:	2.965

Error Coefficients

Standard Error:	3150000
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 410-143886/20	0.2	0.564881	10.0	908776.0	2.824403	Y
2	IC 410-143886/19	0.5	1.478518	10.0	894470.0	2.957036	Y
3	IC 410-143886/18	1.0	2.876328	10.0	931316.0	2.876328	Y
4	IC 410-143886/17	2.0	6.067121	10.0	925401.0	3.033561	Y
5	IC 410-143886/16	5.0	14.895899	10.0	929147.0	2.97918	Y
6	ICIS 410-143886/15	10.0	29.835455	10.0	925399.0	2.983545	Y
7	IC 410-143886/14	25.0	77.518255	10.0	909469.0	3.10073	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

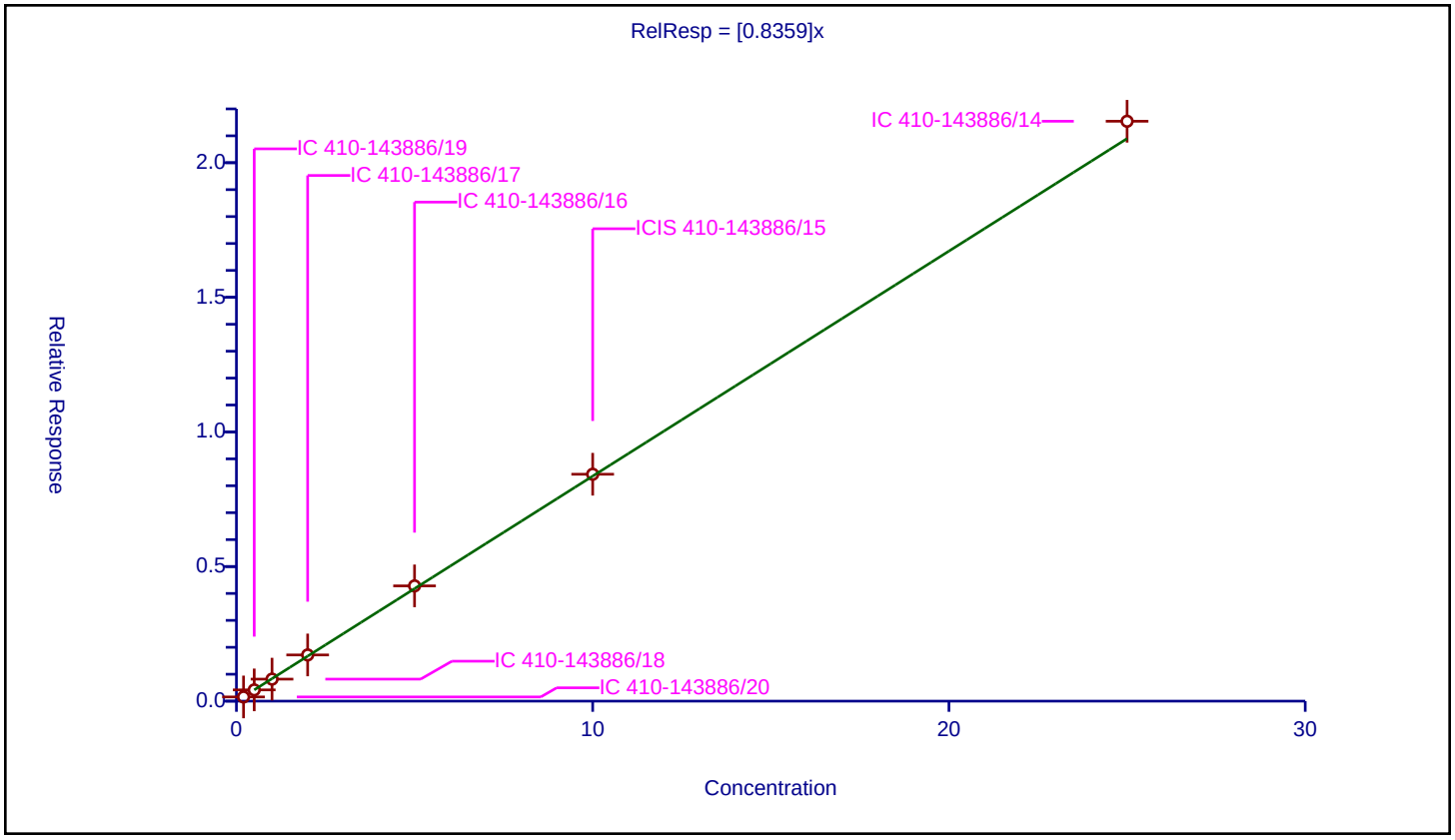
Curve Coefficients

Intercept:	0
Slope:	0.8359

Error Coefficients

Standard Error:	879000
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 410-143886/20	0.2	0.155583	10.0	908776.0	0.777914	Y
2	IC 410-143886/19	0.5	0.418013	10.0	894470.0	0.836026	Y
3	IC 410-143886/18	1.0	0.818165	10.0	931316.0	0.818165	Y
4	IC 410-143886/17	2.0	1.71651	10.0	925401.0	0.858255	Y
5	IC 410-143886/16	5.0	4.281379	10.0	929147.0	0.856276	Y
6	ICIS 410-143886/15	10.0	8.428753	10.0	925399.0	0.842875	Y
7	IC 410-143886/14	25.0	21.540635	10.0	909469.0	0.861625	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

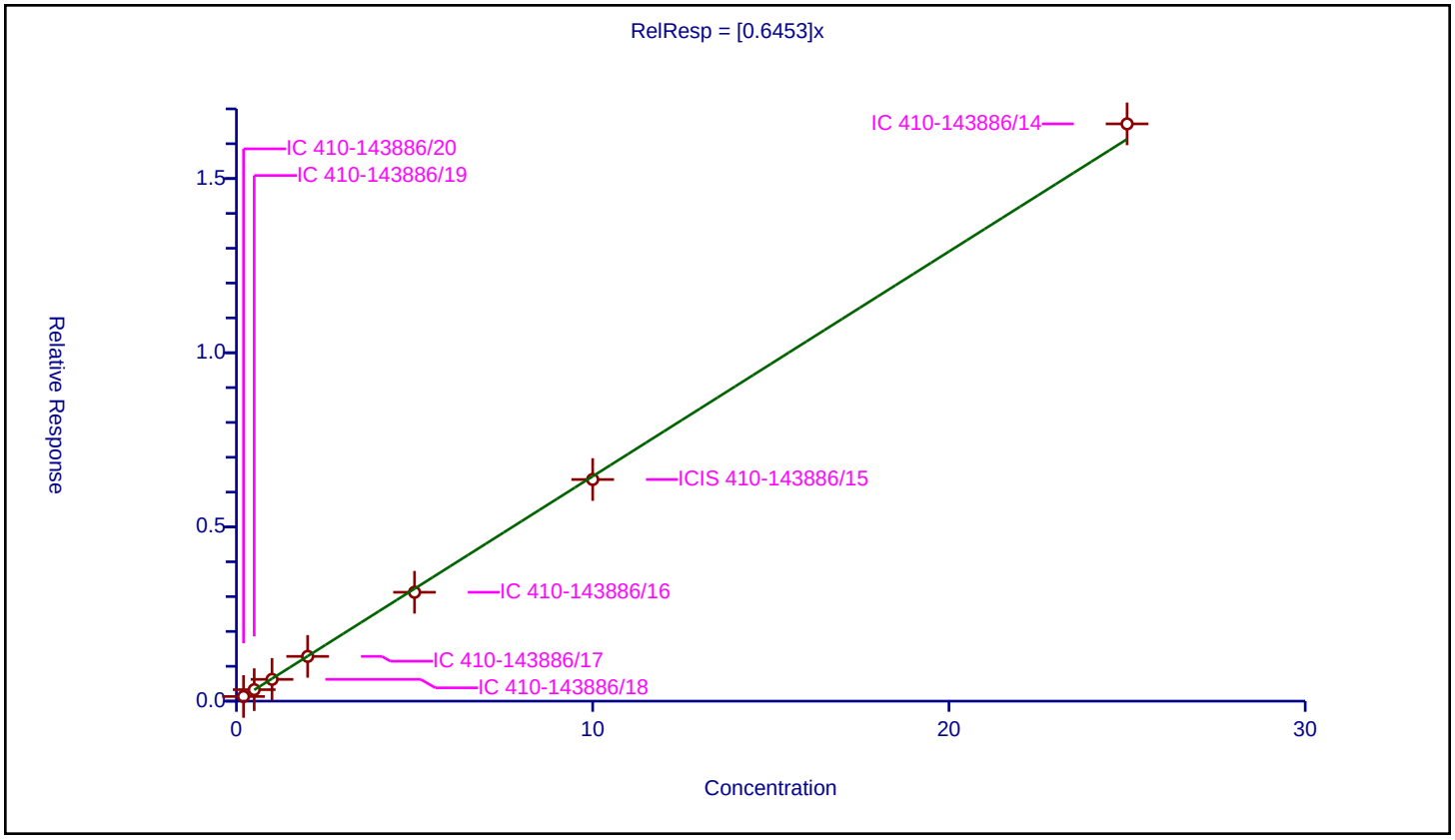
Curve Coefficients

Intercept:	0
Slope:	0.6453

Error Coefficients

Standard Error:	673000
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 410-143886/20	0.2	0.133256	10.0	908776.0	0.666281	Y
2	IC 410-143886/19	0.5	0.329737	10.0	894470.0	0.659474	Y
3	IC 410-143886/18	1.0	0.624729	10.0	931316.0	0.624729	Y
4	IC 410-143886/17	2.0	1.284643	10.0	925401.0	0.642322	Y
5	IC 410-143886/16	5.0	3.125985	10.0	929147.0	0.625197	Y
6	ICIS 410-143886/15	10.0	6.361548	10.0	925399.0	0.636155	Y
7	IC 410-143886/14	25.0	16.569229	10.0	909469.0	0.662769	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

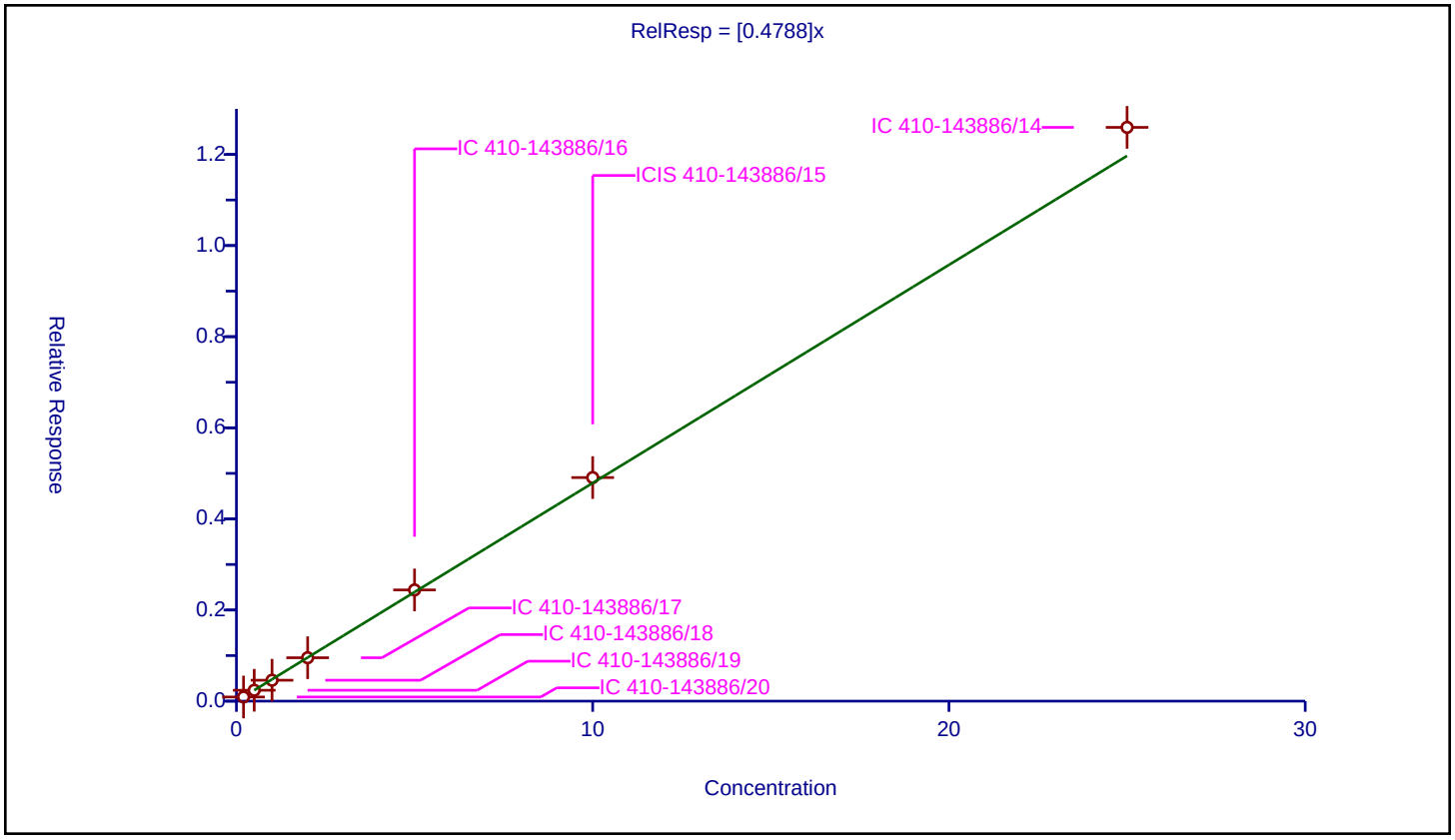
Curve Coefficients

Intercept:	0
Slope:	0.4788

Error Coefficients

Standard Error:	513000
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 410-143886/20	0.2	0.090991	10.0	908776.0	0.454953	Y
2	IC 410-143886/19	0.5	0.239002	10.0	894470.0	0.478004	Y
3	IC 410-143886/18	1.0	0.459318	10.0	931316.0	0.459318	Y
4	IC 410-143886/17	2.0	0.952927	10.0	925401.0	0.476464	Y
5	IC 410-143886/16	5.0	2.440938	10.0	929147.0	0.488188	Y
6	ICIS 410-143886/15	10.0	4.907559	10.0	925399.0	0.490756	Y
7	IC 410-143886/14	25.0	12.59447	10.0	909469.0	0.503779	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

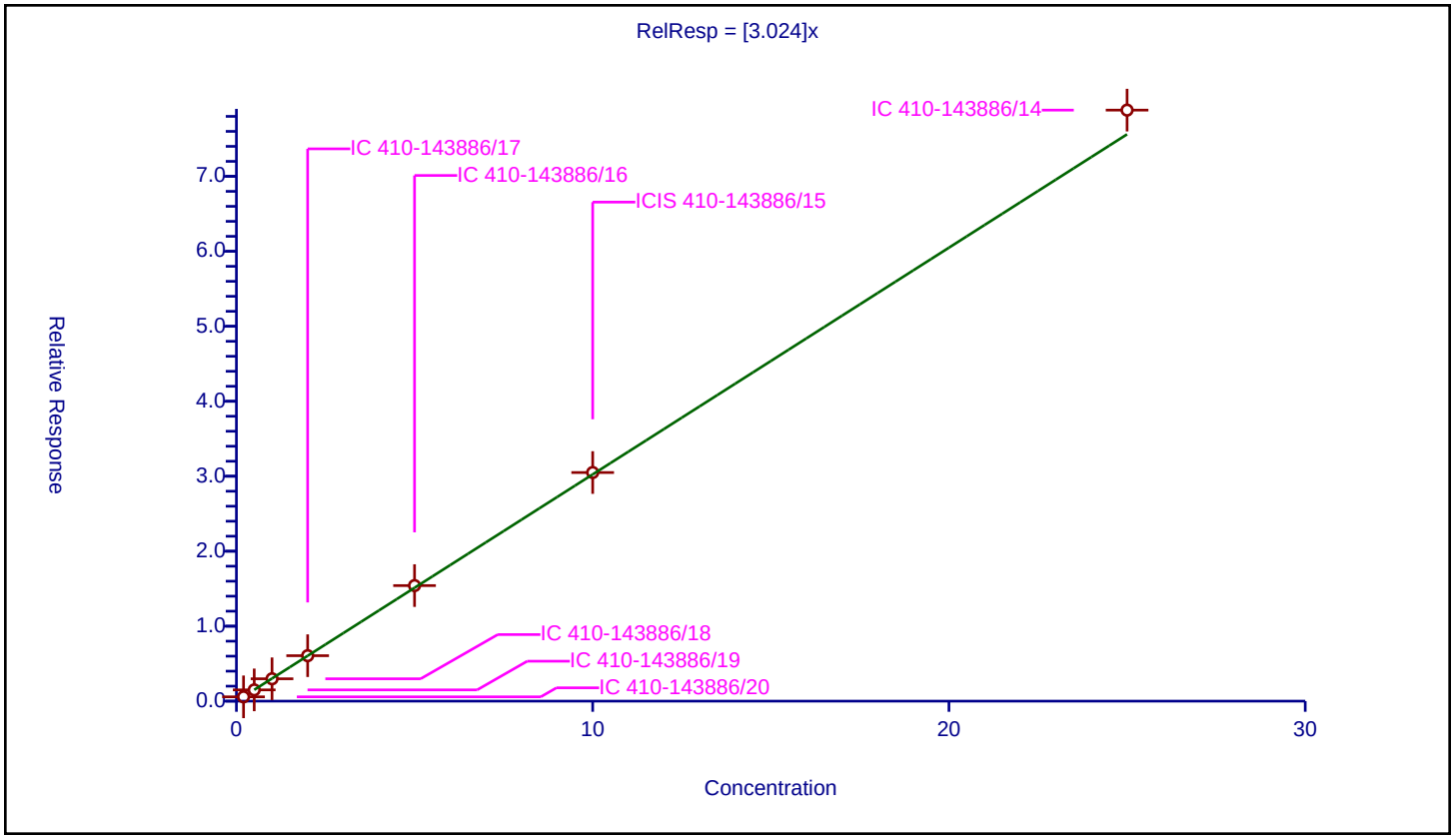
Curve Coefficients

Intercept:	0
Slope:	3.024

Error Coefficients

Standard Error:	3210000
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 410-143886/20	0.2	0.574421	10.0	908776.0	2.872105	Y
2	IC 410-143886/19	0.5	1.499659	10.0	894470.0	2.999318	Y
3	IC 410-143886/18	1.0	2.982038	10.0	931316.0	2.982038	Y
4	IC 410-143886/17	2.0	6.063166	10.0	925401.0	3.031583	Y
5	IC 410-143886/16	5.0	15.414698	10.0	929147.0	3.08294	Y
6	ICIS 410-143886/15	10.0	30.49543	10.0	925399.0	3.049543	Y
7	IC 410-143886/14	25.0	78.835859	10.0	909469.0	3.153434	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

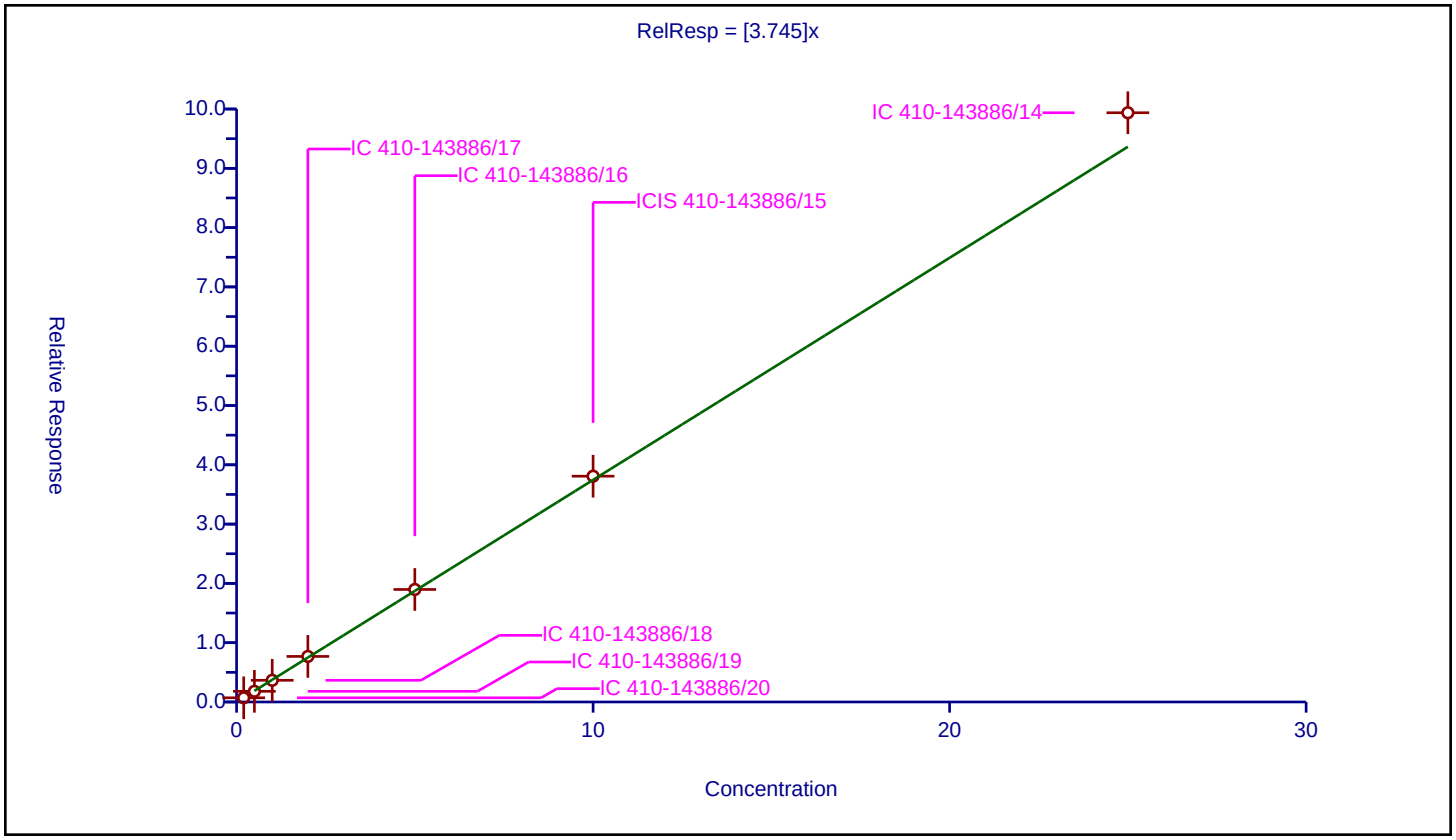
Curve Coefficients

Intercept:	0
Slope:	3.745

Error Coefficients

Standard Error:	4040000
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 410-143886/20	0.2	0.707435	10.0	908776.0	3.537175	Y
2	IC 410-143886/19	0.5	1.801614	10.0	894470.0	3.603229	Y
3	IC 410-143886/18	1.0	3.656825	10.0	931316.0	3.656825	Y
4	IC 410-143886/17	2.0	7.683123	10.0	925401.0	3.841562	Y
5	IC 410-143886/16	5.0	18.974511	10.0	929147.0	3.794902	Y
6	ICIS 410-143886/15	10.0	38.080925	10.0	925399.0	3.808093	Y
7	IC 410-143886/14	25.0	99.370842	10.0	909469.0	3.974834	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

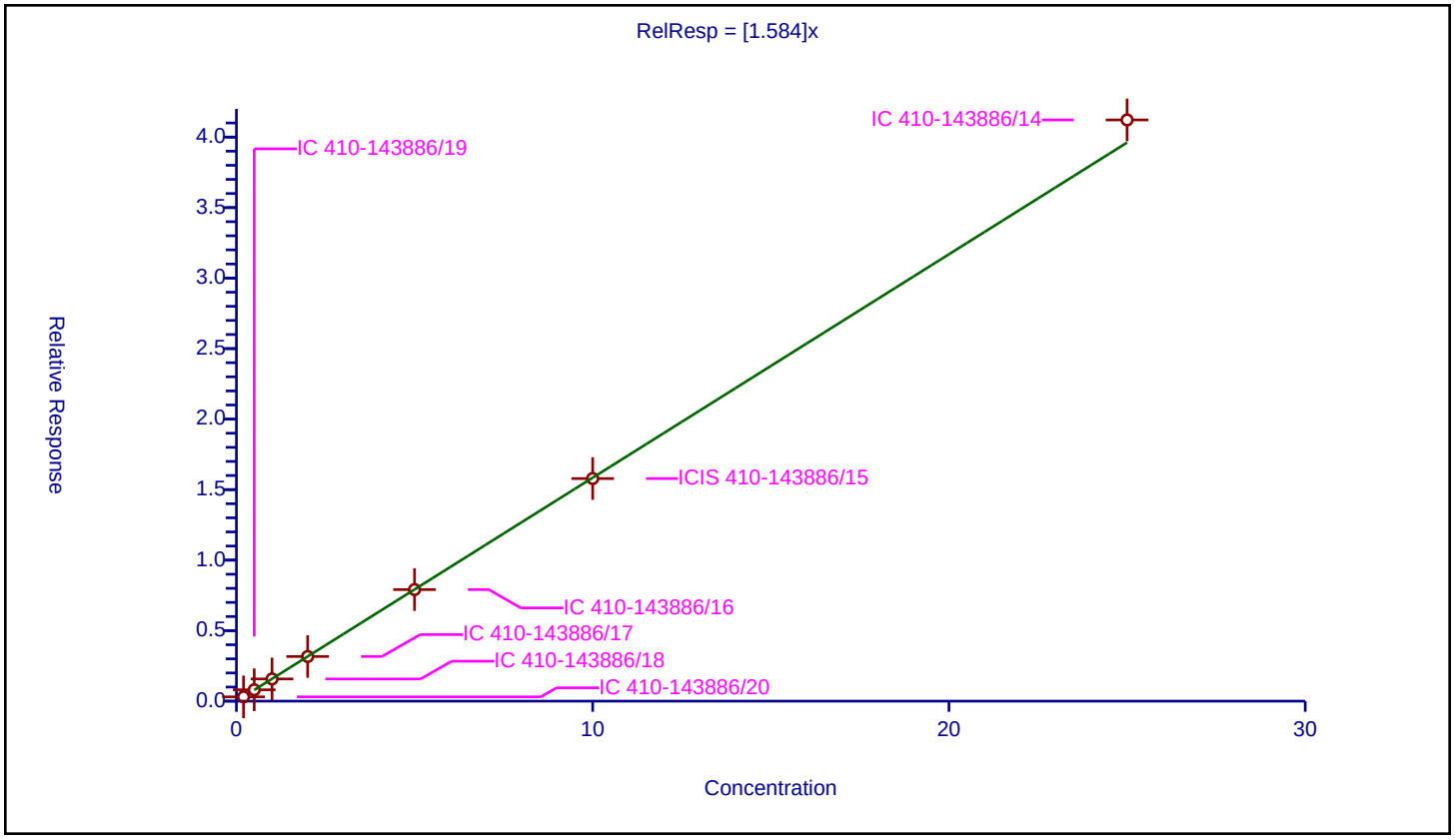
Curve Coefficients

Intercept:	0
Slope:	1.584

Error Coefficients

Standard Error:	1680000
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 410-143886/20	0.2	0.30277	10.0	908776.0	1.513849	Y
2	IC 410-143886/19	0.5	0.805125	10.0	894470.0	1.61025	Y
3	IC 410-143886/18	1.0	1.574256	10.0	931316.0	1.574256	Y
4	IC 410-143886/17	2.0	3.167254	10.0	925401.0	1.583627	Y
5	IC 410-143886/16	5.0	7.910815	10.0	929147.0	1.582163	Y
6	ICIS 410-143886/15	10.0	15.784759	10.0	925399.0	1.578476	Y
7	IC 410-143886/14	25.0	41.216699	10.0	909469.0	1.648668	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

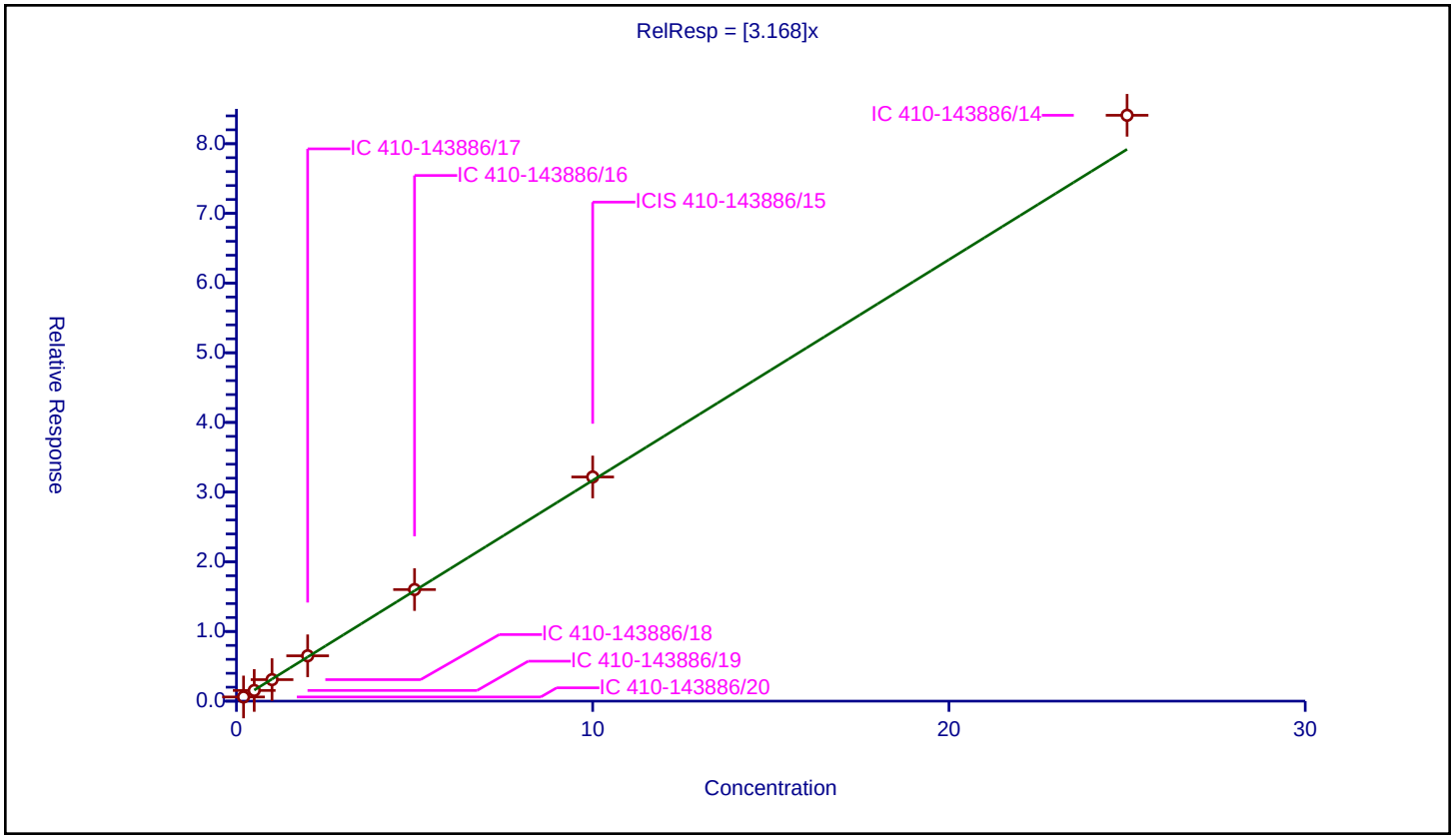
Curve Coefficients

Intercept:	0
Slope:	3.168

Error Coefficients

Standard Error:	3420000
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 410-143886/20	0.2	0.597848	10.0	908776.0	2.98924	Y
2	IC 410-143886/19	0.5	1.532952	10.0	894470.0	3.065905	Y
3	IC 410-143886/18	1.0	3.085172	10.0	931316.0	3.085172	Y
4	IC 410-143886/17	2.0	6.506304	10.0	925401.0	3.253152	Y
5	IC 410-143886/16	5.0	16.014172	10.0	929147.0	3.202834	Y
6	ICIS 410-143886/15	10.0	32.174122	10.0	925399.0	3.217412	Y
7	IC 410-143886/14	25.0	84.081481	10.0	909469.0	3.363259	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

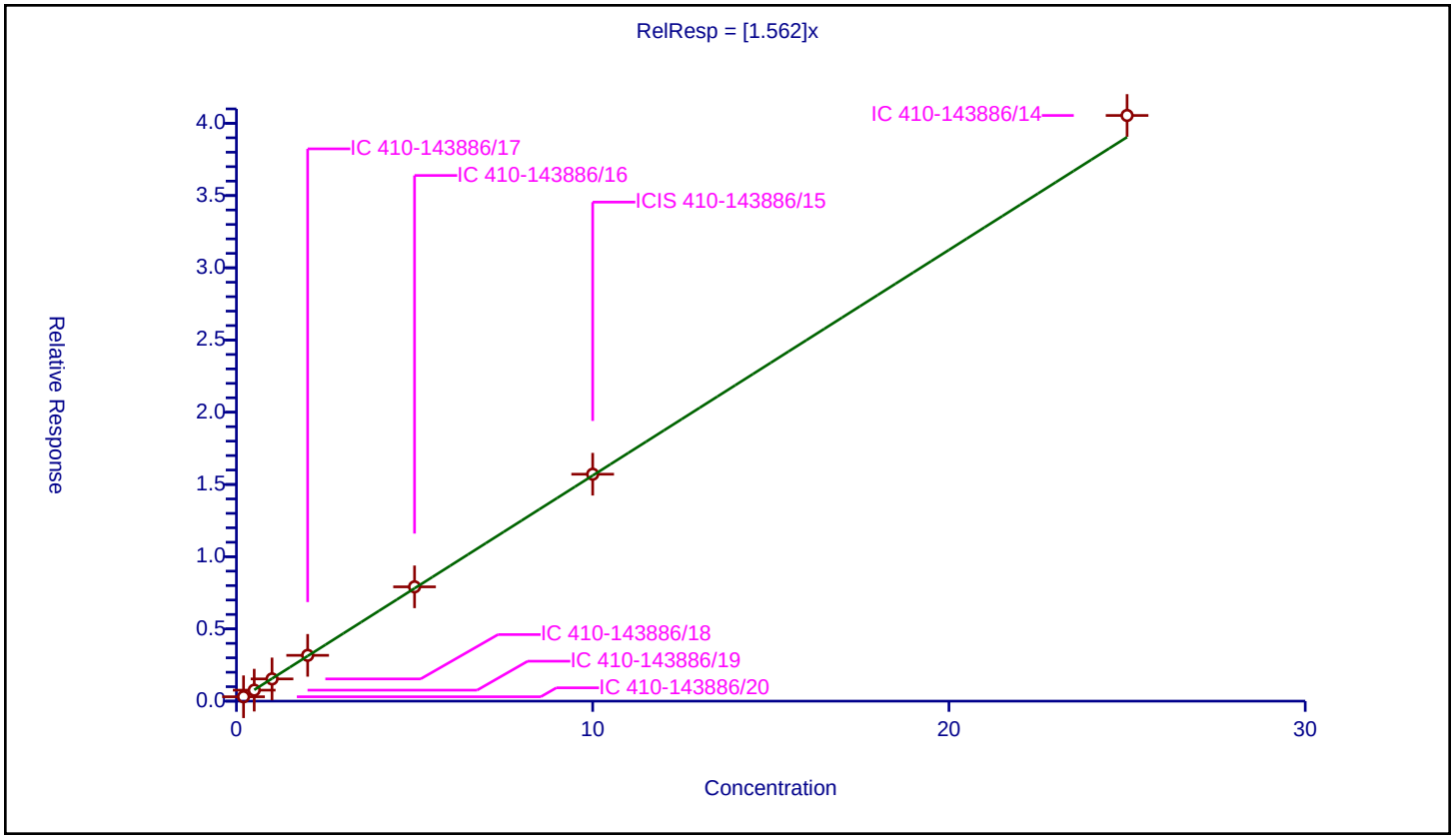
Curve Coefficients

Intercept:	0
Slope:	1.562

Error Coefficients

Standard Error:	1650000
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 410-143886/20	0.2	0.302913	10.0	908776.0	1.514565	Y
2	IC 410-143886/19	0.5	0.759668	10.0	894470.0	1.519335	Y
3	IC 410-143886/18	1.0	1.538447	10.0	931316.0	1.538447	Y
4	IC 410-143886/17	2.0	3.170604	10.0	925401.0	1.585302	Y
5	IC 410-143886/16	5.0	7.913452	10.0	929147.0	1.58269	Y
6	ICIS 410-143886/15	10.0	15.711007	10.0	925399.0	1.571101	Y
7	IC 410-143886/14	25.0	40.545153	10.0	909469.0	1.621806	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

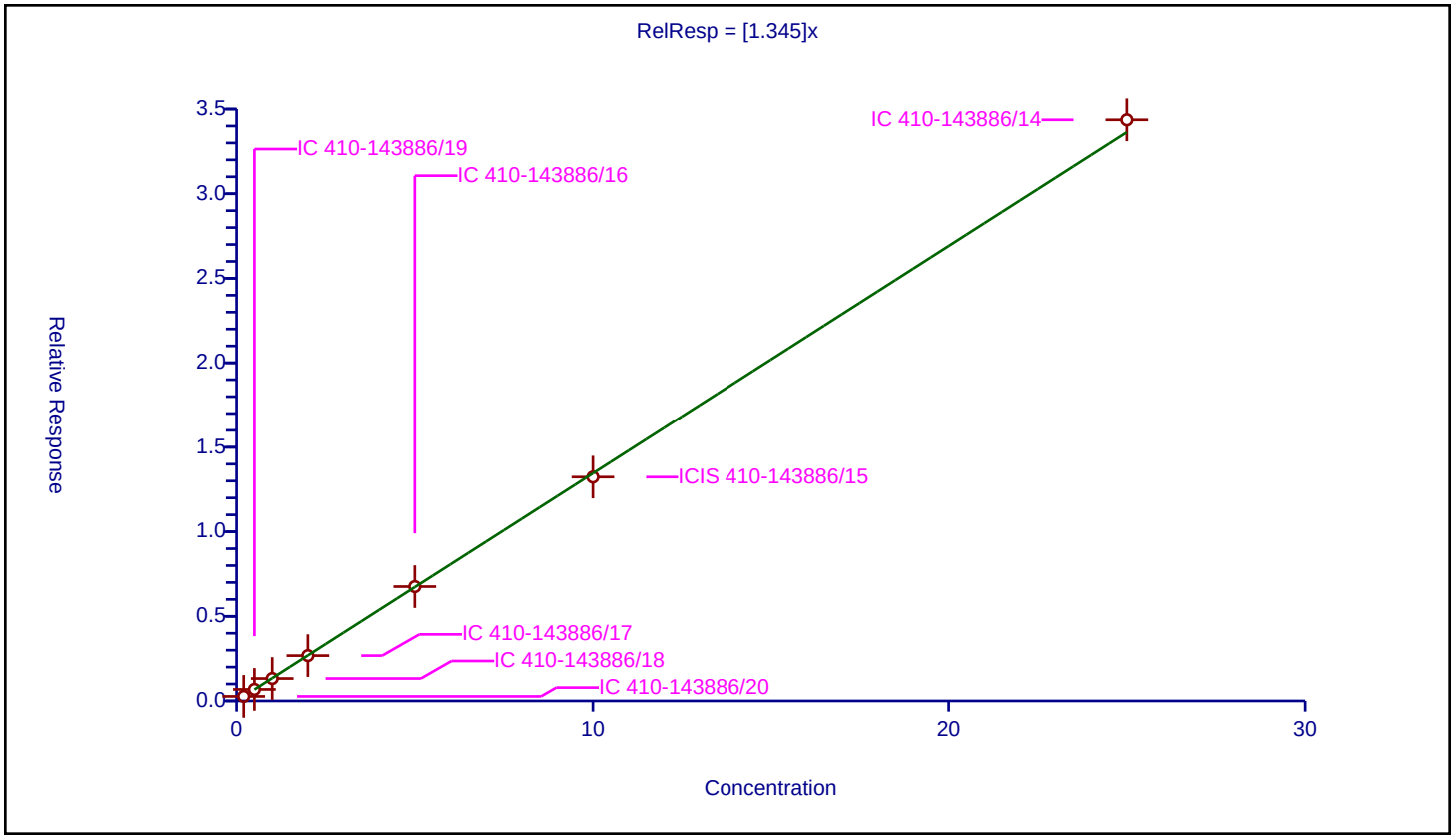
Curve Coefficients

Intercept:	0
Slope:	1.345

Error Coefficients

Standard Error:	1400000
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 410-143886/20	0.2	0.268999	10.0	908776.0	1.344996	Y
2	IC 410-143886/19	0.5	0.680068	10.0	894470.0	1.360135	Y
3	IC 410-143886/18	1.0	1.324738	10.0	931316.0	1.324738	Y
4	IC 410-143886/17	2.0	2.677726	10.0	925401.0	1.338863	Y
5	IC 410-143886/16	5.0	6.758328	10.0	929147.0	1.351666	Y
6	ICIS 410-143886/15	10.0	13.234389	10.0	925399.0	1.323439	Y
7	IC 410-143886/14	25.0	34.365097	10.0	909469.0	1.374604	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

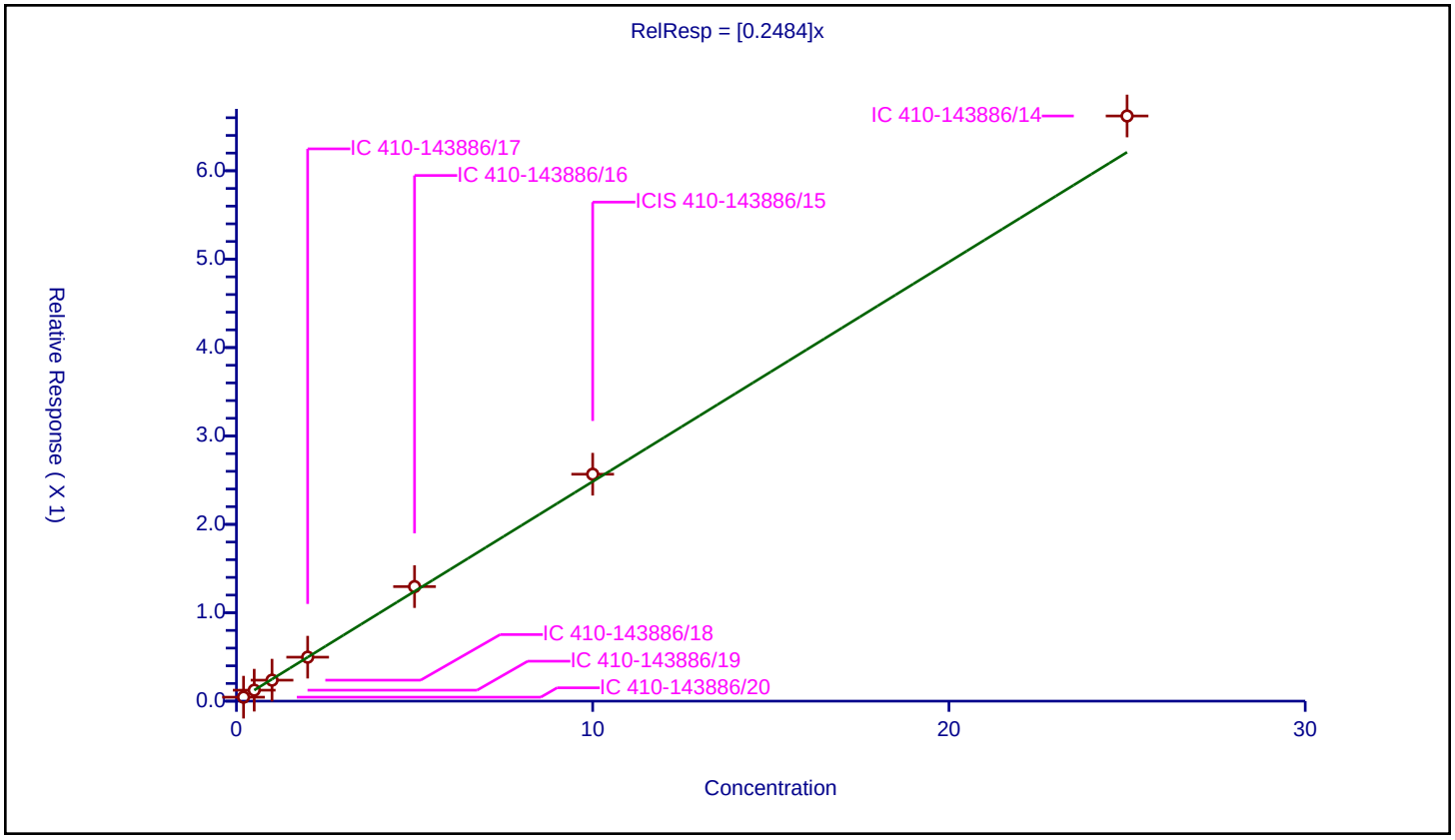
Curve Coefficients

Intercept:	0
Slope:	0.2484

Error Coefficients

Standard Error:	270000
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 410-143886/20	0.2	0.044808	10.0	908776.0	0.224038	Y
2	IC 410-143886/19	0.5	0.124062	10.0	894470.0	0.248125	Y
3	IC 410-143886/18	1.0	0.237363	10.0	931316.0	0.237363	Y
4	IC 410-143886/17	2.0	0.497352	10.0	925401.0	0.248676	Y
5	IC 410-143886/16	5.0	1.295683	10.0	929147.0	0.259137	Y
6	ICIS 410-143886/15	10.0	2.56739	10.0	925399.0	0.256739	Y
7	IC 410-143886/14	25.0	6.619973	10.0	909469.0	0.264799	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

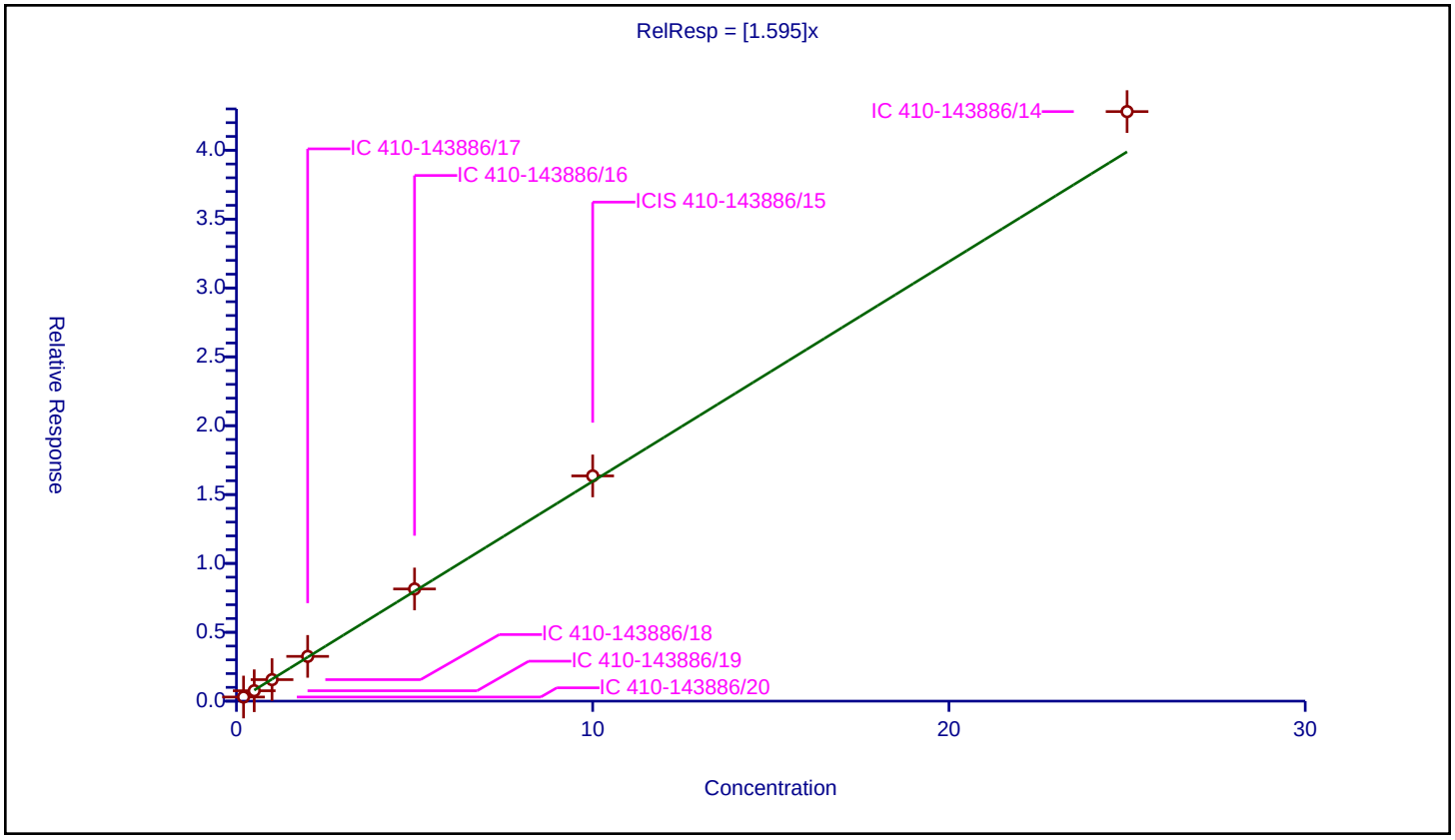
Curve Coefficients

Intercept:	0
Slope:	1.595

Error Coefficients

Standard Error:	1740000
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 410-143886/20	0.2	0.298941	10.0	908776.0	1.494703	Y
2	IC 410-143886/19	0.5	0.755777	10.0	894470.0	1.511554	Y
3	IC 410-143886/18	1.0	1.560609	10.0	931316.0	1.560609	Y
4	IC 410-143886/17	2.0	3.250223	10.0	925401.0	1.625112	Y
5	IC 410-143886/16	5.0	8.143534	10.0	929147.0	1.628707	Y
6	ICIS 410-143886/15	10.0	16.35367	10.0	925399.0	1.635367	Y
7	IC 410-143886/14	25.0	42.805252	10.0	909469.0	1.71221	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

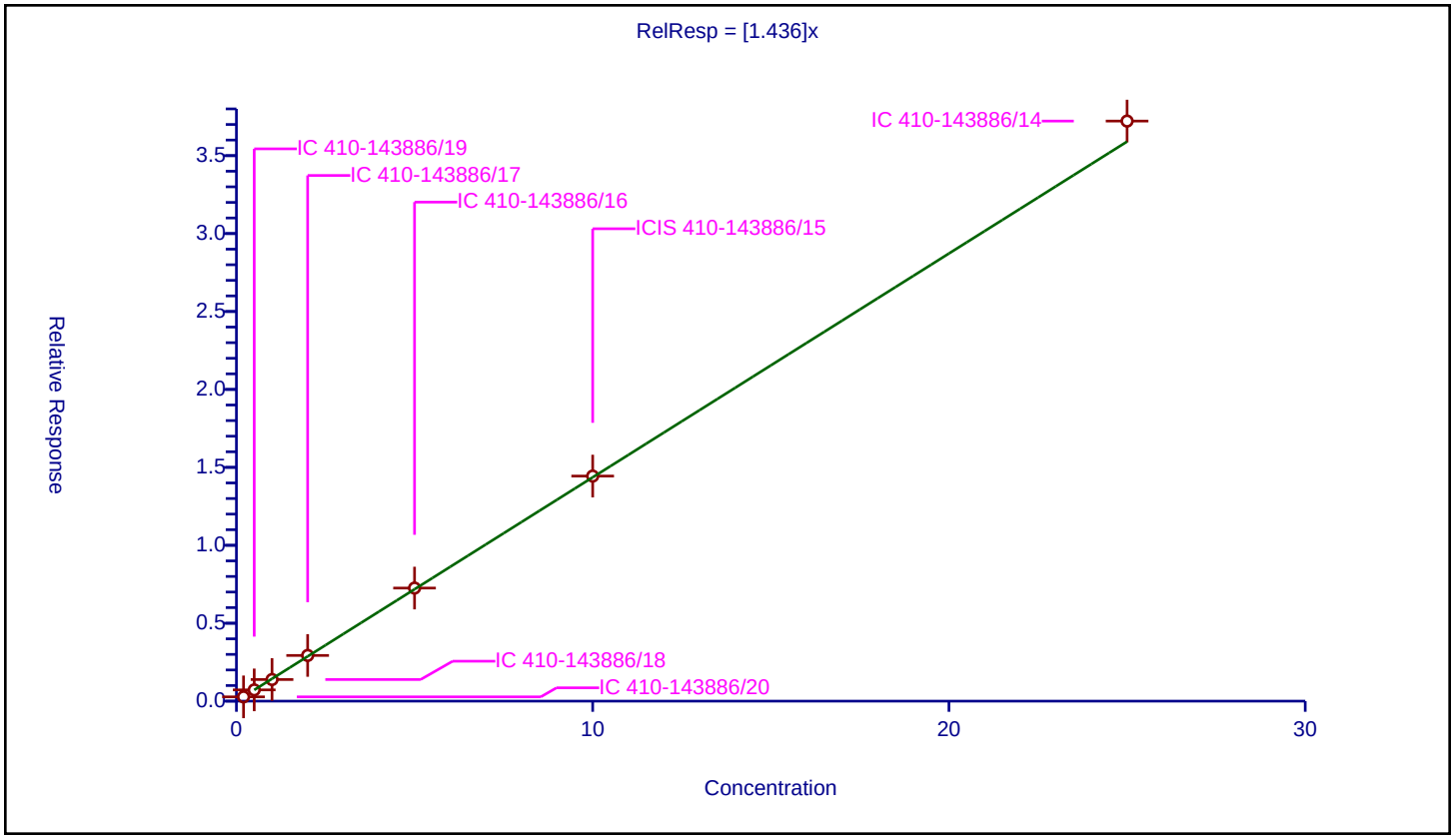
Curve Coefficients

Intercept:	0
Slope:	1.436

Error Coefficients

Standard Error:	1520000
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 410-143886/20	0.2	0.274358	10.0	908776.0	1.37179	Y
2	IC 410-143886/19	0.5	0.722405	10.0	894470.0	1.444811	Y
3	IC 410-143886/18	1.0	1.385974	10.0	931316.0	1.385974	Y
4	IC 410-143886/17	2.0	2.932037	10.0	925401.0	1.466019	Y
5	IC 410-143886/16	5.0	7.255623	10.0	929147.0	1.451125	Y
6	ICIS 410-143886/15	10.0	14.440938	10.0	925399.0	1.444094	Y
7	IC 410-143886/14	25.0	37.218696	10.0	909469.0	1.488748	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

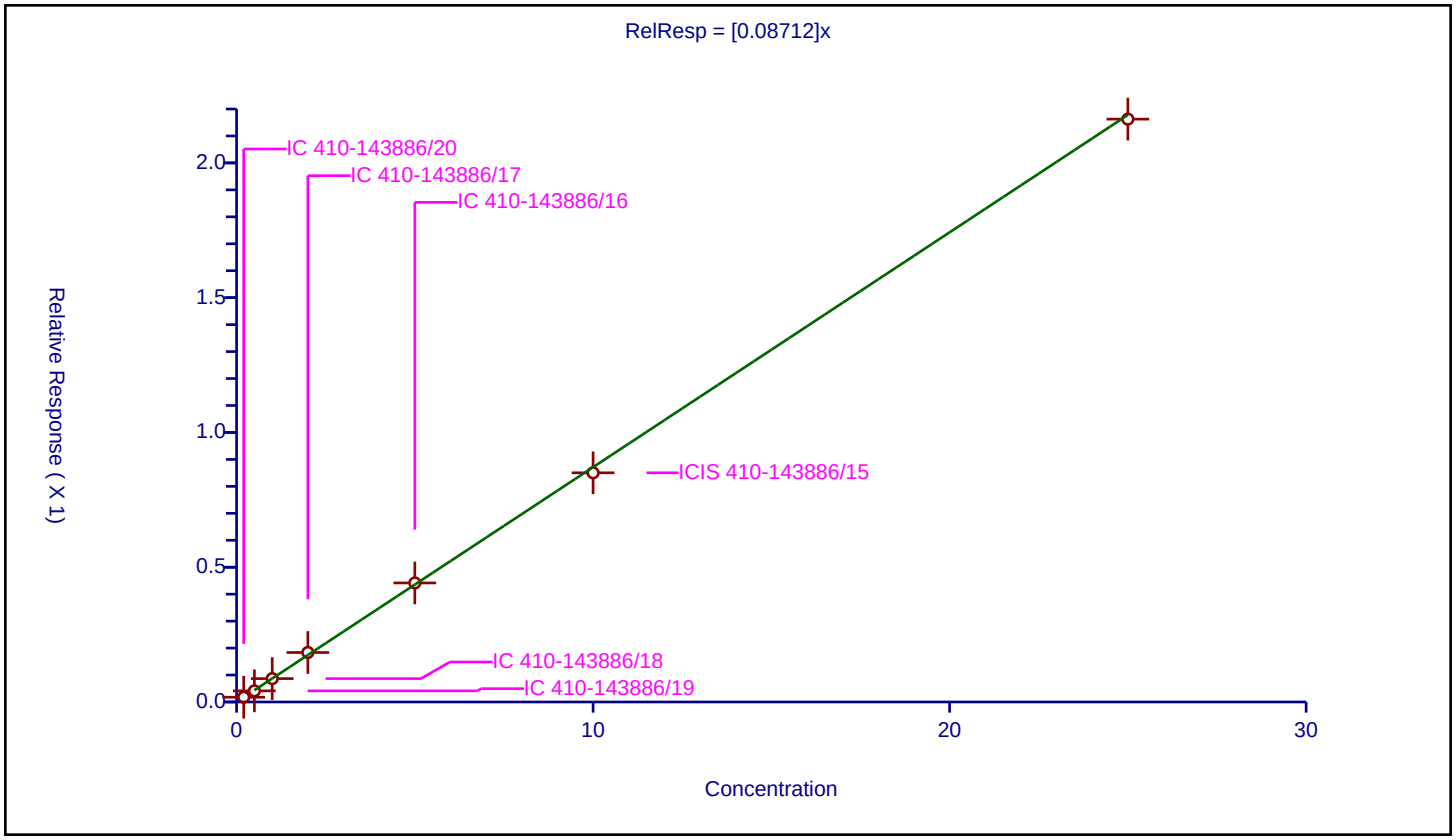
Curve Coefficients

Intercept:	0
Slope:	0.08712

Error Coefficients

Standard Error:	88400
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 410-143886/20	0.2	0.01776	10.0	908776.0	0.088801	Y
2	IC 410-143886/19	0.5	0.041321	10.0	894470.0	0.082641	Y
3	IC 410-143886/18	1.0	0.086727	10.0	931316.0	0.086727	Y
4	IC 410-143886/17	2.0	0.183607	10.0	925401.0	0.091803	Y
5	IC 410-143886/16	5.0	0.441717	10.0	929147.0	0.088343	Y
6	ICIS 410-143886/15	10.0	0.850293	10.0	925399.0	0.085029	Y
7	IC 410-143886/14	25.0	2.162515	10.0	909469.0	0.086501	Y



Calibration / 1,3,5-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

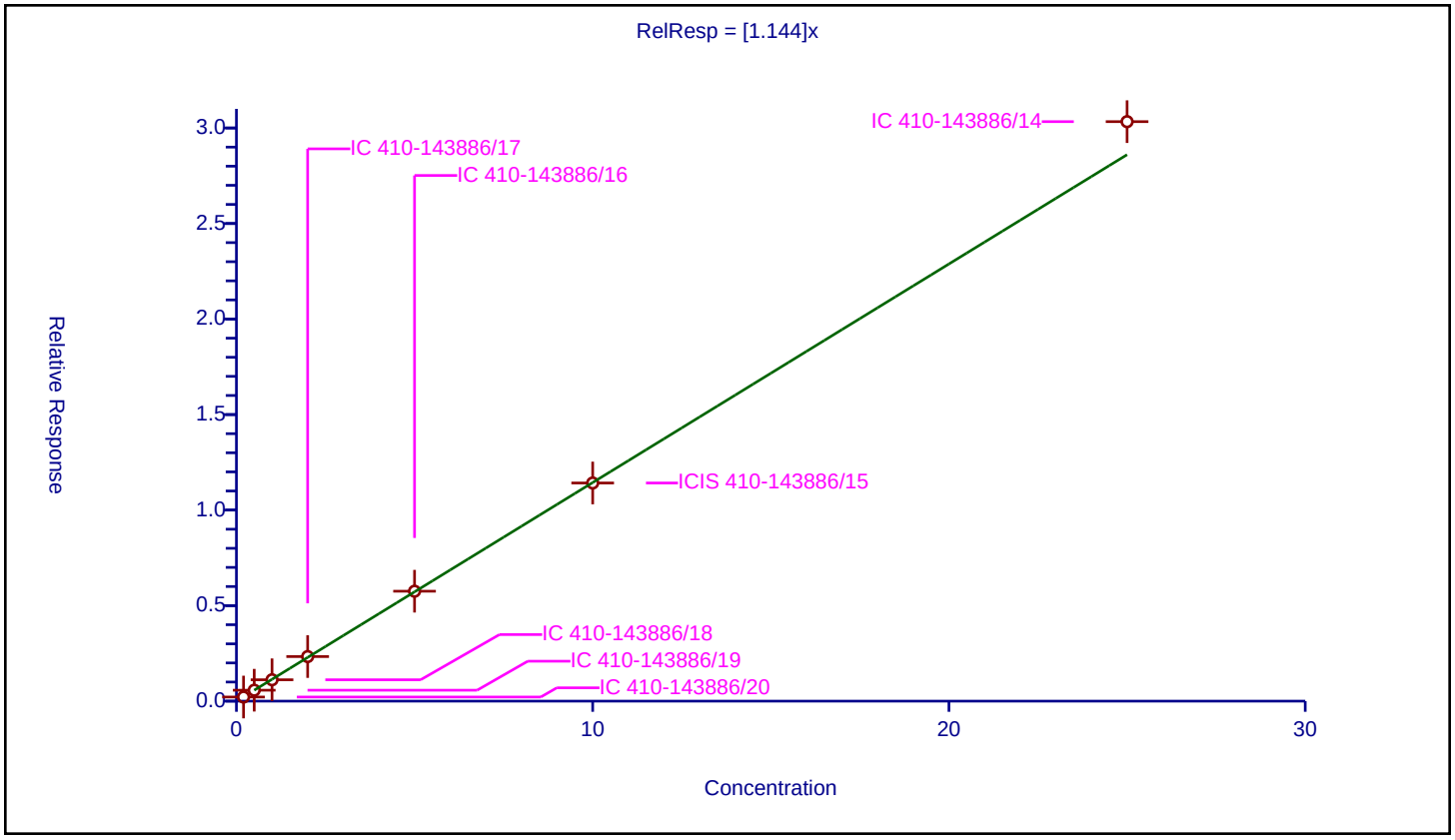
Curve Coefficients

Intercept:	0
Slope:	1.144

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 410-143886/20	0.2	0.214937	10.0	908776.0	1.074687	Y
2	IC 410-143886/19	0.5	0.571612	10.0	894470.0	1.143224	Y
3	IC 410-143886/18	1.0	1.118782	10.0	931316.0	1.118782	Y
4	IC 410-143886/17	2.0	2.332783	10.0	925401.0	1.166392	Y
5	IC 410-143886/16	5.0	5.753966	10.0	929147.0	1.150793	Y
6	ICIS 410-143886/15	10.0	11.418772	10.0	925399.0	1.141877	Y
7	IC 410-143886/14	25.0	30.33248	10.0	909469.0	1.213299	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

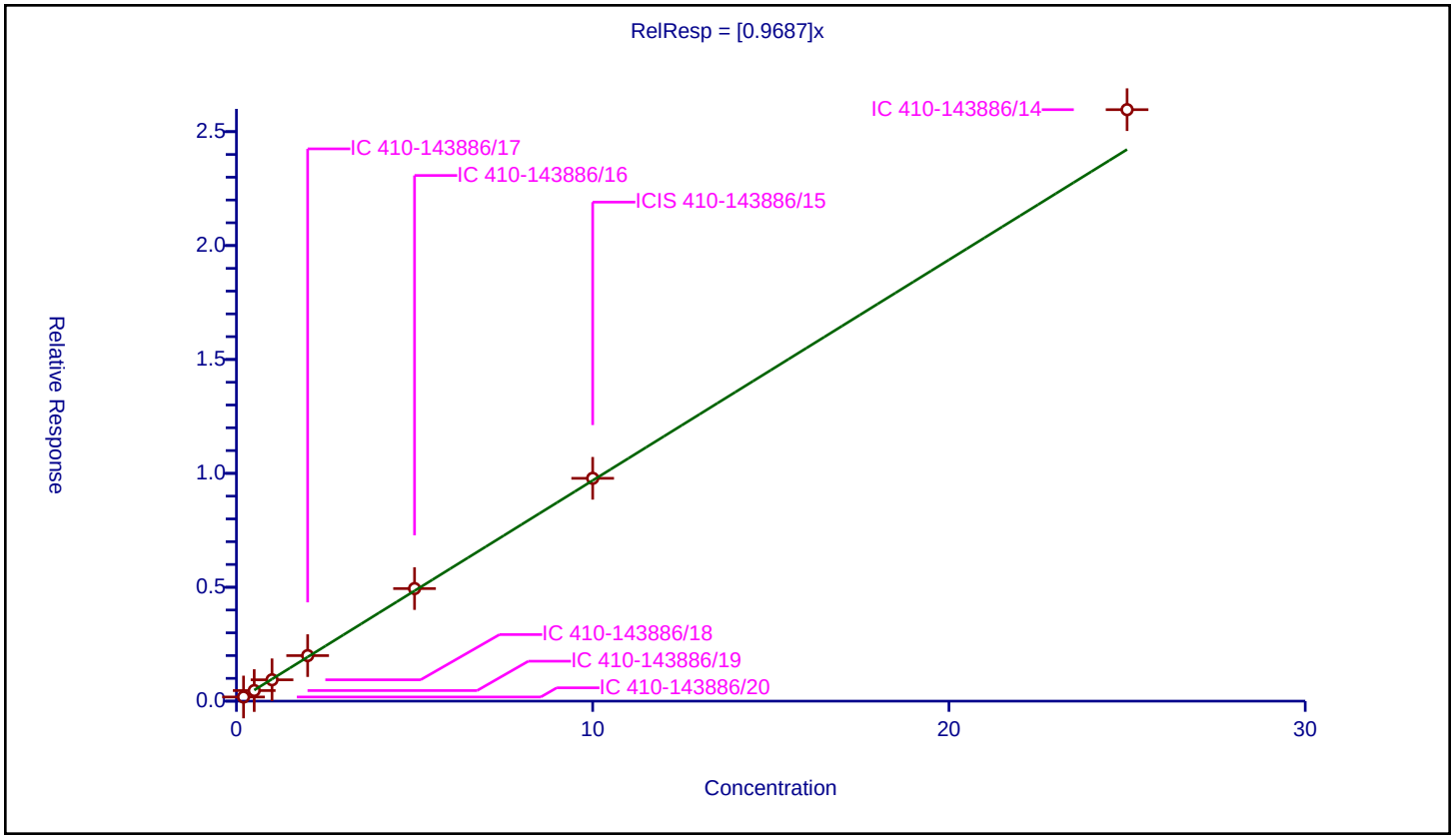
Curve Coefficients

Intercept:	0
Slope:	0.9687

Error Coefficients

Standard Error:	1050000
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	0.181783	10.0	908776.0	0.908915	Y
2	IC 410-143886/19	0.5	0.464923	10.0	894470.0	0.929847	Y
3	IC 410-143886/18	1.0	0.93763	10.0	931316.0	0.93763	Y
4	IC 410-143886/17	2.0	1.99922	10.0	925401.0	0.99961	Y
5	IC 410-143886/16	5.0	4.941931	10.0	929147.0	0.988386	Y
6	ICIS 410-143886/15	10.0	9.782126	10.0	925399.0	0.978213	Y
7	IC 410-143886/14	25.0	25.965943	10.0	909469.0	1.038638	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

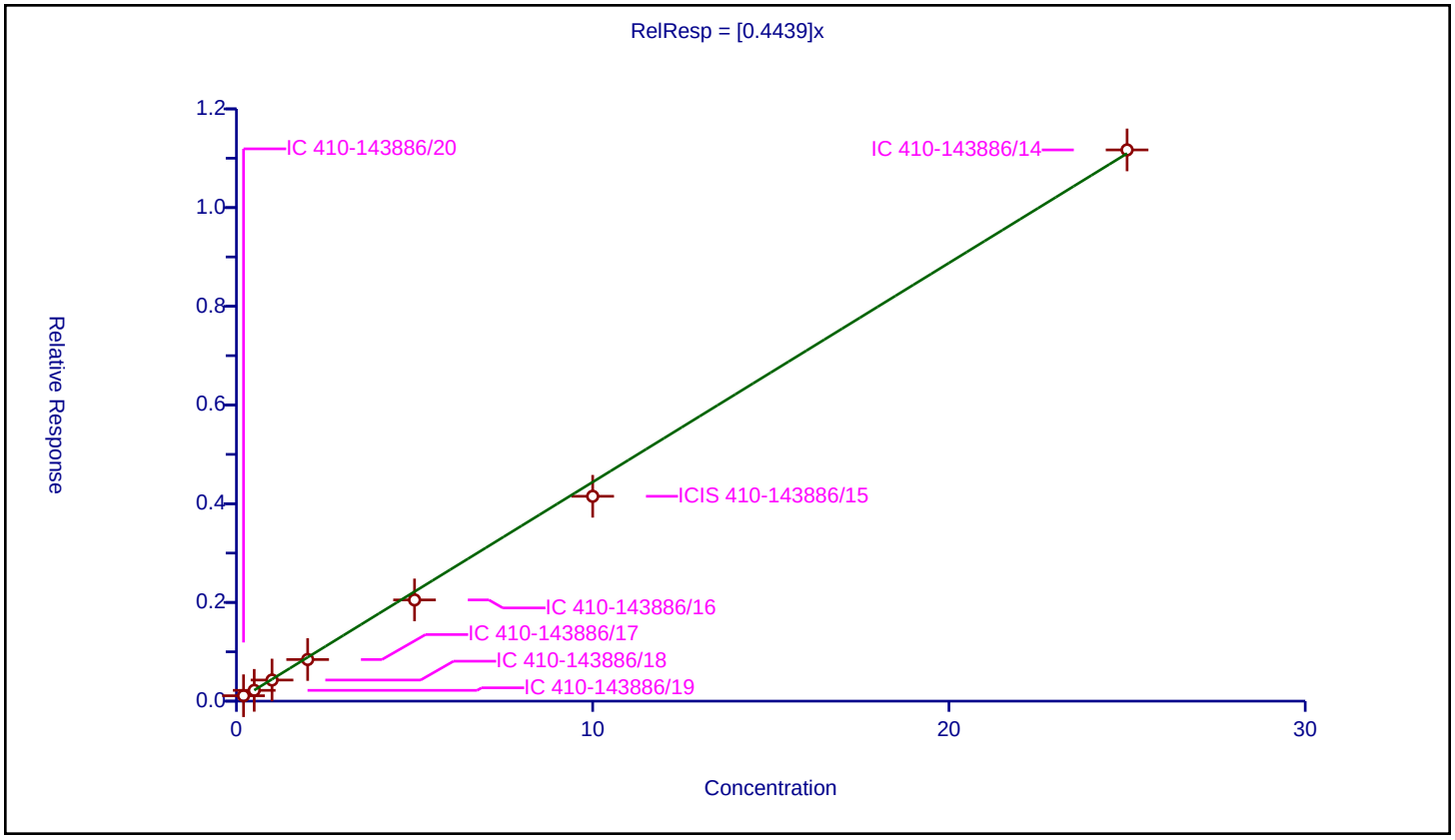
Curve Coefficients

Intercept:	0
Slope:	0.4439

Error Coefficients

Standard Error:	452000
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 410-143886/20	0.2	0.109664	10.0	908776.0	0.54832	Y
2	IC 410-143886/19	0.5	0.218889	10.0	894470.0	0.437779	Y
3	IC 410-143886/18	1.0	0.427631	10.0	931316.0	0.427631	Y
4	IC 410-143886/17	2.0	0.842943	10.0	925401.0	0.421471	Y
5	IC 410-143886/16	5.0	2.051182	10.0	929147.0	0.410236	Y
6	ICIS 410-143886/15	10.0	4.150718	10.0	925399.0	0.415072	Y
7	IC 410-143886/14	25.0	11.169056	10.0	909469.0	0.446762	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

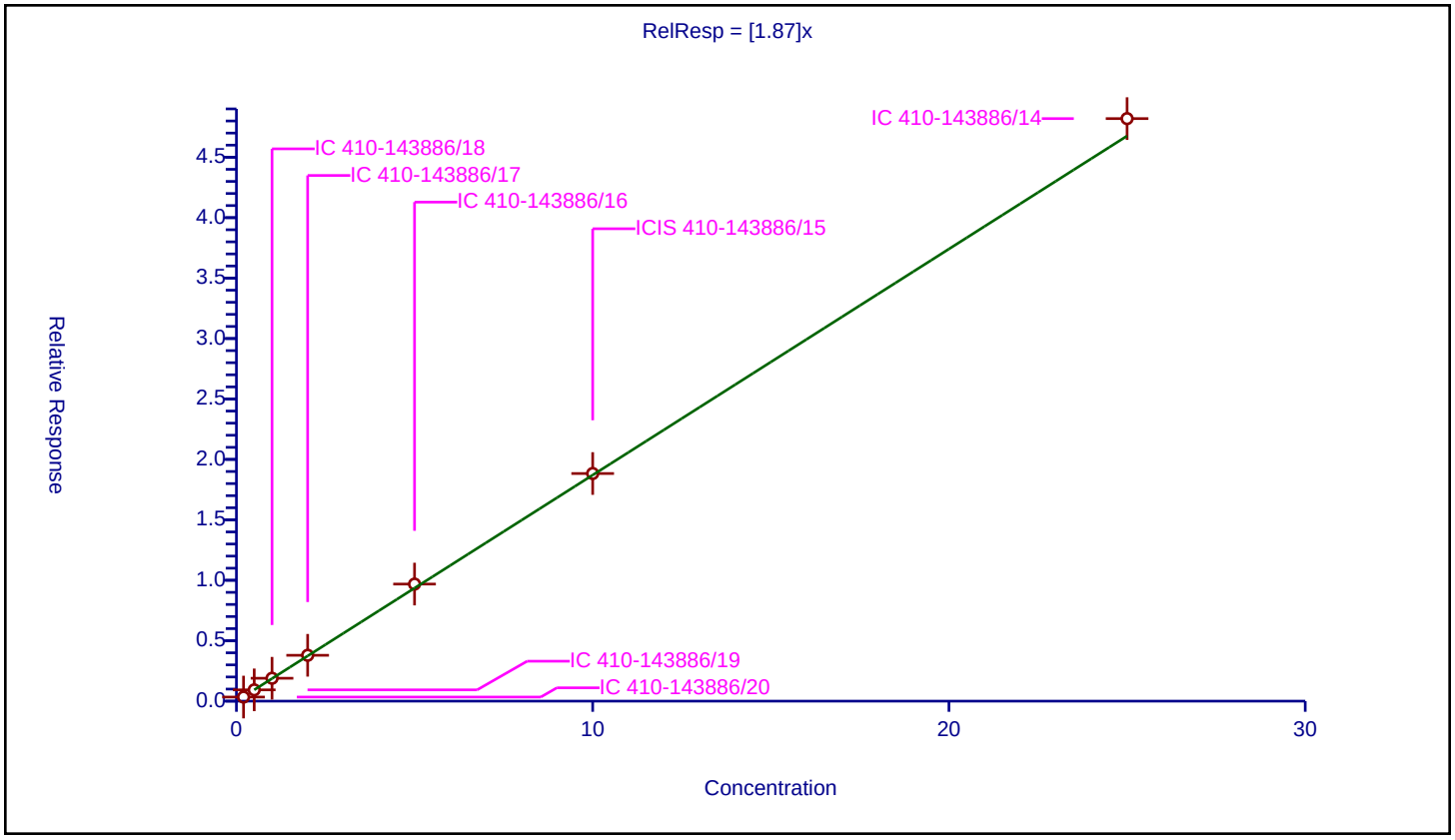
Curve Coefficients

Intercept:	0
Slope:	1.87

Error Coefficients

Standard Error:	1970000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-143886/20	0.2	0.337399	10.0	908776.0	1.686994	Y
2	IC 410-143886/19	0.5	0.934218	10.0	894470.0	1.868436	Y
3	IC 410-143886/18	1.0	1.892902	10.0	931316.0	1.892902	Y
4	IC 410-143886/17	2.0	3.792378	10.0	925401.0	1.896189	Y
5	IC 410-143886/16	5.0	9.686035	10.0	929147.0	1.937207	Y
6	ICIS 410-143886/15	10.0	18.833746	10.0	925399.0	1.883375	Y
7	IC 410-143886/14	25.0	48.196673	10.0	909469.0	1.927867	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

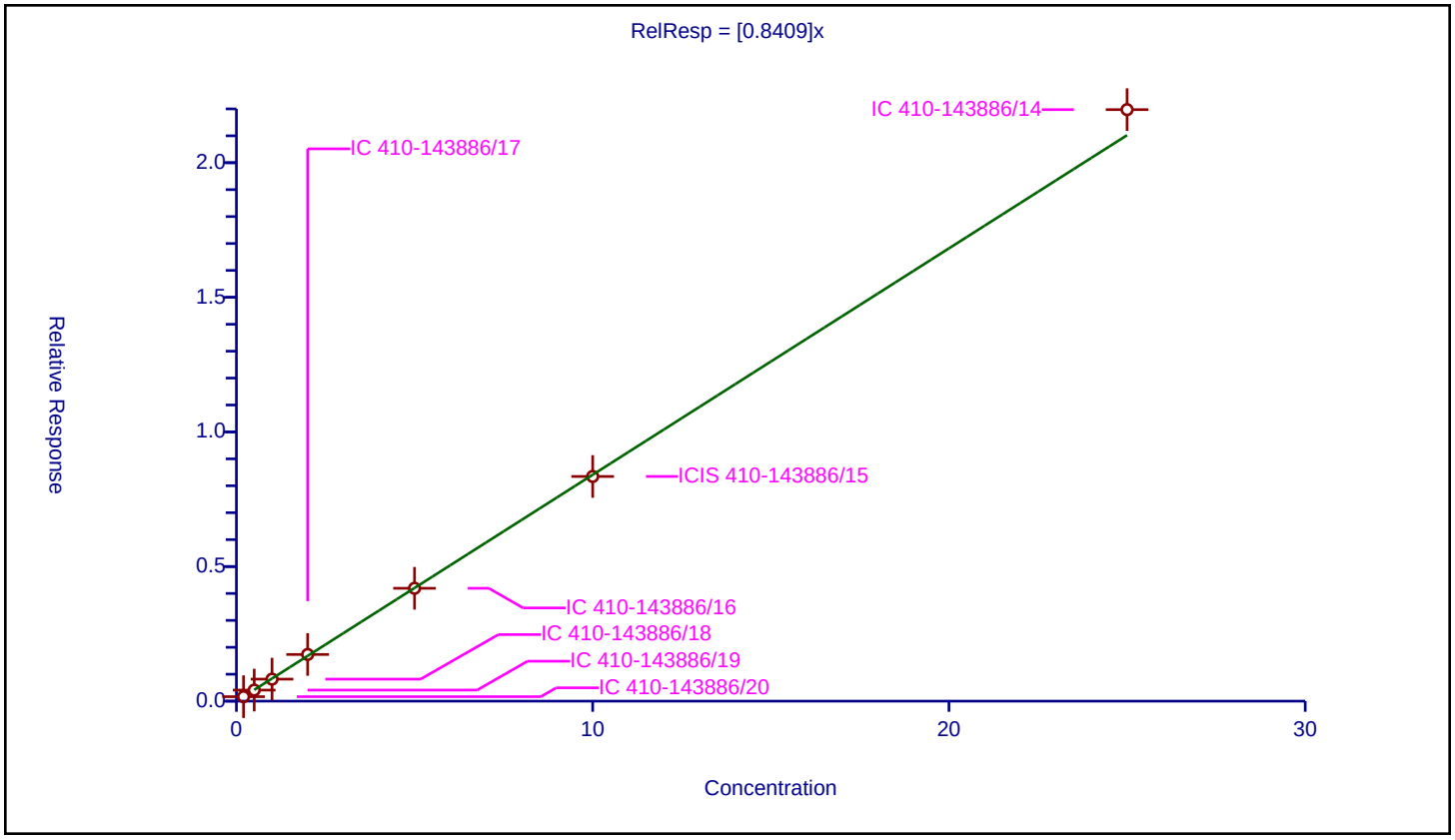
Curve Coefficients

Intercept:	0
Slope:	0.8409

Error Coefficients

Standard Error:	892000
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 410-143886/20	0.2	0.16553	10.0	908776.0	0.827652	Y
2	IC 410-143886/19	0.5	0.411115	10.0	894470.0	0.82223	Y
3	IC 410-143886/18	1.0	0.817746	10.0	931316.0	0.817746	Y
4	IC 410-143886/17	2.0	1.733562	10.0	925401.0	0.866781	Y
5	IC 410-143886/16	5.0	4.192695	10.0	929147.0	0.838539	Y
6	ICIS 410-143886/15	10.0	8.345935	10.0	925399.0	0.834594	Y
7	IC 410-143886/14	25.0	21.972239	10.0	909469.0	0.87889	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45147-1

SDG No.:

Lab Sample ID: ICV 410-102081/19 Calibration Date: 03/11/2021 22:02

Instrument ID: 10193 Calib Start Date: 03/11/2021 16:05

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/11/2021 18:19

Lab File ID: CM11X19.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-Chloroethyl vinyl ether	Ave	0.1418				5.00		

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X19.D
Lims ID: ICV Lg
Client ID:
Sample Type: ICV
Inject. Date: 11-Mar-2021 22:02:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023820-019
Misc. Info.: ICV LG
Operator ID: SRK36897 Instrument ID: 10193
Sublist:

Method: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 23-Mar-2021 16:58:28 Calib Date: 11-Mar-2021 21:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1638

First Level Reviewer: knouses Date: 12-Mar-2021 10:57:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.886	1.879	0.007	99	360928	5.00	6.48	
3 Chloromethane	50	2.081	2.074	0.007	99	407606	5.00	5.92	
4 Butadiene	39	2.184	2.178	0.006	93	356990	5.00	4.72	
5 Vinyl chloride	62	2.190	2.184	0.006	98	409954	5.00	6.52	
6 Bromomethane	94	2.495	2.489	0.006	91	266086	5.00	5.88	
7 Chloroethane	64	2.568	2.562	0.006	99	234314	5.00	5.68	
8 Dichlorofluoromethane	67	2.806	2.800	0.006	97	515345	5.00	5.43	
9 Trichlorofluoromethane	101	2.867	2.861	0.006	98	501965	5.00	5.85	
11 Ethyl ether	59	3.093	3.086	0.007	93	252036	5.00	5.41	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.178	3.172	0.006	94	356116	5.00	5.30	
13 Acrolein	56	3.263	3.257	0.006	99	229784	37.5	35.8	
14 1,1-Dichloroethene	96	3.385	3.379	0.006	96	259296	5.00	5.36	
15 112TCTFE	101	3.422	3.410	0.012	93	260397	5.00	4.94	
16 Acetone	43	3.428	3.416	0.012	55	293615	37.5	38.8	M
17 Iodomethane	142	3.574	3.562	0.012	98	462848	5.00	4.89	
18 Isopropyl alcohol	45	3.568	3.586	-0.018	30	54676	37.5	30.4	
19 Ethyl bromide	108	3.599	3.592	0.007	99	196030	5.03	4.83	
20 Carbon disulfide	76	3.666	3.659	0.007	100	832396	5.00	5.03	
22 Methyl acetate	43	3.812	3.824	-0.012	98	95556	5.00	5.76	M
23 3-Chloro-1-propene	41	3.843	3.830	0.013	89	464652	5.00	5.19	
24 Methylene Chloride	84	4.019	4.007	0.012	95	284274	5.00	5.23	
* 25 t-Butyl alcohol-d10 (IS)	65	4.062	4.050	0.012	0	163911	50.0	50.0	
26 2-Methyl-2-propanol	59	4.190	4.165	0.025	100	154060	50.0	52.6	
27 Acrylonitrile	53	4.361	4.354	0.007	100	292044	25.0	27.2	
28 Methyl tert-butyl ether	73	4.397	4.391	0.006	91	789286	5.00	4.94	
29 trans-1,2-Dichloroethene	96	4.410	4.403	0.007	97	286947	5.00	5.17	
30 Hexane	57	4.836	4.824	0.012	95	432458	5.00	4.93	
32 1,1-Dichloroethane	63	5.080	5.074	0.006	96	545364	5.00	5.18	
33 Isopropyl ether	45	5.141	5.129	0.012	93	1015085	5.00	5.13	
34 2-Chloro-1,3-butadiene	53	5.190	5.184	0.006	92	500525	5.00	5.25	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Tert-butyl ethyl ether	59	5.671	5.665	0.006	98	979873	5.00	5.09	
36 2-Butanone (MEK)	43	5.885	5.885	0.000	100	616393	37.5	40.1	
37 cis-1,2-Dichloroethene	96	5.915	5.915	0.000	84	326144	5.00	5.22	
38 2,2-Dichloropropane	77	5.934	5.921	0.013	89	429678	5.00	5.03	
40 Propionitrile	54	5.982	5.988	-0.006	98	152477	37.5	37.6	
43 Methacrylonitrile	67	6.196	6.189	0.007	92	587970	37.5	38.7	
44 Chlorobromomethane	128	6.251	6.244	0.007	95	139863	5.00	5.04	
45 Tetrahydrofuran	71	6.251	6.250	0.001	74	121508	25.0	27.4	
46 Chloroform	83	6.409	6.403	0.006	95	525298	5.00	5.22	
$ 47 Dibromofluoromethane (Surr)	113	6.622	6.622	0.000	93	494642	10.0	9.90	
48 1,1,1-Trichloroethane	97	6.629	6.622	0.007	99	472568	5.00	5.34	
49 Cyclohexane	56	6.720	6.714	0.006	92	549797	5.00	5.20	
50 Carbon tetrachloride	117	6.836	6.830	0.006	97	398586	5.00	5.40	
51 1,1-Dichloropropene	75	6.842	6.842	0.000	95	427219	5.00	5.20	
52 Isobutyl alcohol	41	7.025	7.031	-0.006	94	139207	125.0	127.9	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.080	7.080	0.000	0	100722	10.0	9.79	
54 Benzene	78	7.104	7.104	0.000	97	1227060	5.00	5.15	
55 1,2-Dichloroethane	62	7.177	7.171	0.006	97	355386	5.00	5.00	
56 Tert-amyl methyl ether	73	7.299	7.299	0.000	98	896795	5.00	5.23	
* 57 Fluorobenzene (IS)	96	7.519	7.512	0.007	99	2109844	10.0	10.0	
58 n-Heptane	43	7.525	7.525	0.000	92	486442	5.00	5.04	
59 n-Butanol	56	7.921	7.927	-0.006	90	250879	250.0	271.8	
60 Trichloroethene	95	7.994	7.994	0.000	98	319187	5.00	5.29	
61 Methylcyclohexane	83	8.299	8.299	0.000	93	561728	5.00	5.20	
62 1,2-Dichloropropane	63	8.336	8.335	0.001	94	322719	5.00	5.24	
63 2-ethoxy-2-methyl butane	87	8.348	8.342	0.006	92	506297	5.00	5.29	
64 Methyl methacrylate	69	8.427	8.433	-0.006	91	160384	5.00	5.22	
66 Dibromomethane	93	8.445	8.439	0.006	97	153722	5.00	5.35	
65 1,4-Dioxane	88	8.439	8.482	-0.043	29	26435	125.0	133.7	M
67 Dichlorobromomethane	83	8.689	8.689	0.000	99	378759	5.00	5.31	
68 2-Nitropropane	41	8.970	8.969	0.001	99	46666	5.00	4.65	
69 2-Chloroethyl vinyl ether	63		9.067				ND	ND	
71 1-Bromo-2-chloroethane	63	9.079	9.079	0.000	99	312740	5.00	5.34	
72 cis-1,3-Dichloropropene	75	9.244	9.250	-0.006	94	485750	5.00	5.27	
73 4-Methyl-2-pentanone (MIBK)	43	9.439	9.433	0.006	97	1128184	25.0	26.6	
$ 74 Toluene-d8 (Surr)	98	9.567	9.561	0.006	94	2089216	10.0	10.1	
75 Toluene	92	9.640	9.640	0.000	98	797403	5.00	5.26	
76 trans-1,3-Dichloropropene	75	9.915	9.914	0.001	95	421256	5.00	5.45	
78 Ethyl methacrylate	69	9.982	9.981	0.001	90	358900	5.00	5.48	
79 1,1,2-Trichloroethane	97	10.122	10.122	0.000	92	222412	5.00	5.28	
80 Tetrachloroethene	166	10.207	10.201	0.006	96	344102	5.00	5.35	
81 1,3-Dichloropropane	76	10.293	10.292	0.000	93	393857	5.00	5.23	
82 2-Hexanone	43	10.353	10.353	0.000	97	831345	25.0	26.8	
83 Chlorodibromomethane	129	10.506	10.506	0.000	90	257767	5.00	5.44	
84 Ethylene Dibromide	107	10.616	10.615	0.001	99	214269	5.00	5.27	
* 85 Chlorobenzene-d5 (IS)	117	11.061	11.060	0.001	87	1553035	10.0	10.0	
86 1-Chlorohexane	91	11.073	11.073	0.000	97	440887	5.00	5.05	
87 Chlorobenzene	112	11.085	11.085	0.000	94	897095	5.00	5.25	
89 1,1,1,2-Tetrachloroethane	131	11.170	11.170	0.000	94	307760	5.00	5.39	
90 Ethylbenzene	91	11.176	11.176	0.000	99	1566194	5.00	5.30	
91 m-Xylene & p-Xylene	106	11.292	11.292	0.000	99	1225994	10.0	10.7	
92 o-Xylene	106	11.628	11.627	0.001	96	605086	5.00	5.30	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
93 Styrene	104	11.646	11.646	0.000	95	1016854	5.00	5.33	
94 Bromoform	173	11.804	11.804	0.000	97	148528	5.00	5.51	
95 Isopropylbenzene	105	11.932	11.932	0.000	96	1545712	5.00	5.22	
$ 98 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	88	802723	10.0	10.1	
99 1,1,2,2-Tetrachloroethane	83	12.188	12.188	0.000	95	291341	5.00	5.40	
100 Bromobenzene	156	12.195	12.194	0.001	95	375274	5.00	5.16	
101 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	91	405695	25.0	25.7	
102 1,2,3-Trichloropropane	110	12.231	12.231	0.000	83	75054	5.00	5.14	
103 N-Propylbenzene	91	12.268	12.268	0.000	99	1895622	5.00	5.39	
104 2-Chlorotoluene	126	12.341	12.341	0.000	96	379329	5.00	5.21	
105 1,3,5-Trimethylbenzene	105	12.402	12.408	-0.006	94	1366138	5.00	5.30	
106 4-Chlorotoluene	126	12.438	12.438	0.000	98	399845	5.00	5.25	
107 tert-Butylbenzene	134	12.646	12.646	0.000	93	287361	5.00	5.16	
108 Pentachloroethane	167	12.682	12.682	0.000	89	214915	5.00	5.36	
109 1,2,4-Trimethylbenzene	105	12.694	12.694	0.000	97	1409322	5.00	5.29	
110 sec-Butylbenzene	105	12.816	12.816	0.000	94	1774715	5.00	5.37	
111 1,3-Dichlorobenzene	146	12.914	12.914	0.000	97	758400	5.00	5.28	
112 4-Isopropyltoluene	119	12.926	12.926	0.000	97	1569073	5.00	5.47	
* 113 1,4-Dichlorobenzene-d4	152	12.969	12.969	0.000	96	854376	10.0	10.0	
114 1,4-Dichlorobenzene	146	12.987	12.987	0.000	93	779639	5.00	5.29	
115 1,2,3-Trimethylbenzene	120	12.999	12.999	0.000	99	650154	5.00	5.49	
116 Benzyl chloride	126	13.066	13.072	-0.006	99	105676	5.00	5.25	
119 n-Butylbenzene	92	13.219	13.219	0.000	98	782195	5.00	5.34	
120 1,2-Dichlorobenzene	146	13.249	13.249	0.000	97	706267	5.00	5.22	
118 p-Diethylbenzene	119	13.274	13.273	0.001	87	787192	5.00	5.36	
123 1,2-Dibromo-3-Chloropropane	155	13.804	13.804	0.000	83	40194	5.00	5.38	
124 1,3,5-Trichlorobenzene	180	13.926	13.926	0.000	97	614228	5.00	5.21	
125 1,2,4-Trichlorobenzene	180	14.353	14.353	0.000	94	549308	5.00	5.19	
126 Hexachlorobutadiene	225	14.438	14.438	0.000	98	281099	5.00	5.59	
127 Naphthalene	128	14.536	14.535	0.001	97	952314	5.00	4.99	
128 1,2,3-Trichlorobenzene	180	14.682	14.682	0.000	95	476816	5.00	5.07	
129 2-Methylnaphthalene	142	15.304	15.304	0.000	92	585503	5.00	4.43	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_Q_QVOA1_00071	Amount Added:	12.50	Units: uL	
MSV_Q_QVOA6_00069	Amount Added:	12.50	Units: uL	
MSV_Q_EE_00003	Amount Added:	12.50	Units: uL	
MSV_Q_ETBR_00006	Amount Added:	12.50	Units: uL	
MSV_QGAS_826_00114	Amount Added:	12.50	Units: uL	
MSV_Q_QARC_00071	Amount Added:	12.50	Units: uL	
MSV_HP25_ISSS_00023	Amount Added:	1.00	Units: uL	Run Reagent

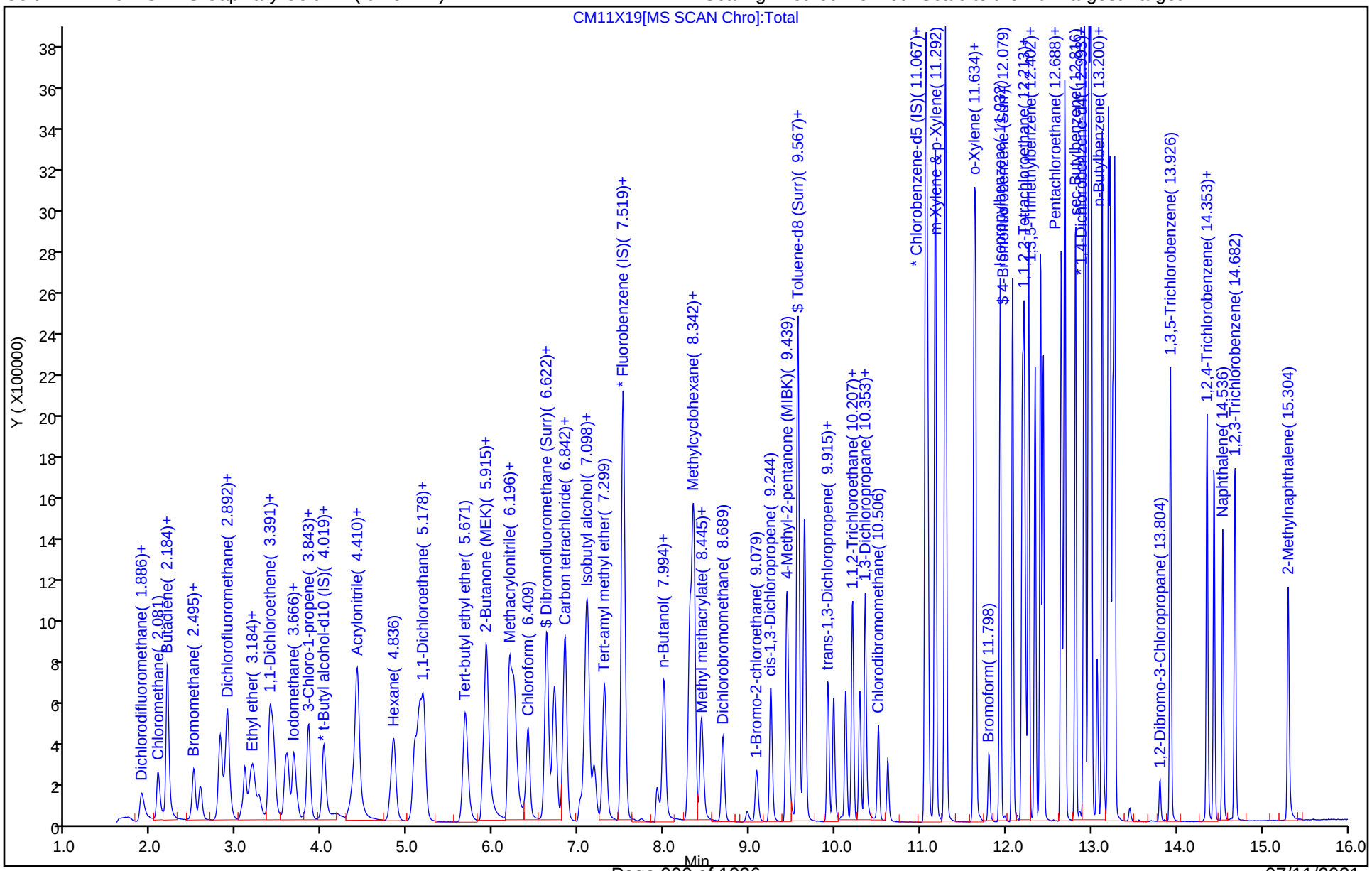
Report Date: 23-Mar-2021 16:58:35 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X19.D

Injection Date:	11-Mar-2021 22:02:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	ICV Lg			Worklist Smp#:	19
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45147-1

SDG No.:

Lab Sample ID: ICV 410-102081/19 Calibration Date: 03/11/2021 22:02

Instrument ID: 10193 Calib Start Date: 03/11/2021 19:26

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/11/2021 21:40

Lab File ID: CM11X19.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	0.2642	0.3421	0.1000	6.48	5.00	29.5	30.0
Chloromethane	Ave	0.3264	0.3864	0.1000	5.92	5.00	18.4	30.0
1,3-Butadiene	Ave	0.3583	0.3384		4.72	5.00	-5.5	30.0
Vinyl chloride	Ave	0.2982	0.3886	0.1000	6.52	5.00	30.3*	30.0
Bromomethane	Ave	0.2145	0.2522	0.1000	5.88	5.00	17.6	30.0
Chloroethane	Ave	0.1954	0.2221	0.1000	5.68	5.00	13.7	30.0
Dichlorofluoromethane	Ave	0.4502	0.4885		5.43	5.00	8.5	30.0
Trichlorofluoromethane	Ave	0.4066	0.4758	0.1000	5.85	5.00	17.0	30.0
Ethyl ether	Ave	0.2206	0.2389		5.41	5.00	8.3	30.0
Freon 123a	Ave	0.3186	0.3376		5.30	5.00	5.9	30.0
Acrolein	Ave	1.957	1.869		35.8	37.5	-4.5	30.0
1,1-Dichloroethene	Ave	0.2295	0.2458	0.1000	5.36	5.00	7.1	30.0
Freon 113	Ave	0.2498	0.2468	0.1000	4.94	5.00	-1.2	30.0
Acetone	Ave	2.310	2.388	0.1000	38.8	37.5	3.4	30.0
Methyl iodide	Ave	0.4484	0.4388		4.89	5.00	-2.1	30.0
Ethyl bromide	Ave	0.1924	0.1846		4.83	5.03	-4.1	30.0
Carbon disulfide	Ave	0.7836	0.7891	0.1000	5.03	5.00	0.7	30.0
Methyl acetate	Ave	5.064	5.830	0.1000	5.76	5.00	15.1	30.0
Allyl chloride	Ave	0.4243	0.4405		5.19	5.00	3.8	30.0
Methylene Chloride	Ave	0.2576	0.2695	0.1000	5.23	5.00	4.6	30.0
t-Butyl alcohol	Ave	0.8940	0.9399		52.6	50.0	5.1	30.0
Acrylonitrile	Ave	3.281	3.563		27.2	25.0	8.6	30.0
Methyl tert-butyl ether	Ave	0.7571	0.7482	0.1000	4.94	5.00	-1.2	30.0
trans-1,2-Dichloroethene	Ave	0.2633	0.2720	0.1000	5.17	5.00	3.3	30.0
n-Hexane	Ave	0.4162	0.4099		4.93	5.00	-1.5	30.0
1,1-Dichloroethane	Ave	0.4986	0.5170	0.2000	5.18	5.00	3.7	30.0
di-Isopropyl ether	Ave	0.9384	0.9622		5.13	5.00	2.5	30.0
2-Chloro-1,3-butadiene	Ave	0.4522	0.4745		5.25	5.00	4.9	30.0
Ethyl t-butyl ether	Ave	0.9132	0.9289		5.09	5.00	1.7	30.0
2-Butanone (MEK)	Ave	4.694	5.014	0.1000	40.1	37.5	6.8	30.0
cis-1,2-Dichloroethene	Ave	0.2961	0.3092	0.1000	5.22	5.00	4.4	30.0
2,2-Dichloropropane	Ave	0.4049	0.4073		5.03	5.00	0.6	30.0
Propionitrile	Ave	1.238	1.240		37.6	37.5	0.2	30.0
Methacrylonitrile	Ave	4.632	4.783		38.7	37.5	3.3	30.0
Bromochloromethane	Ave	0.1316	0.1326		5.04	5.00	0.8	30.0
Tetrahydrofuran	Ave	1.352	1.483		27.4	25.0	9.7	30.0
Chloroform	Ave	0.4767	0.4979	0.2000	5.22	5.00	4.5	30.0
1,1,1-Trichloroethane	Ave	0.4195	0.4480	0.1000	5.34	5.00	6.8	30.0
Cyclohexane	Ave	0.5014	0.5212	0.1000	5.20	5.00	3.9	30.0
Carbon tetrachloride	Ave	0.3500	0.3778	0.1000	5.40	5.00	8.0	30.0
1,1-Dichloropropene	Ave	0.3897	0.4050		5.20	5.00	3.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45147-1

SDG No.:

Lab Sample ID: ICV 410-102081/19 Calibration Date: 03/11/2021 22:02

Instrument ID: 10193 Calib Start Date: 03/11/2021 19:26

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/11/2021 21:40

Lab File ID: CM11X19.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	0.3320	0.3397		128	125	2.3	30.0
Benzene	Ave	1.129	1.163	0.5000	5.15	5.00	3.0	30.0
1,2-Dichloroethane	Ave	0.3366	0.3369	0.1000	5.00	5.00	0.0	30.0
t-Amyl methyl ether	Ave	0.8129	0.8501		5.23	5.00	4.6	30.0
n-Heptane	Ave	0.4574	0.4611		5.04	5.00	0.8	30.0
n-Butanol	Ave	0.2815	0.3061		272	250	8.7	30.0
Trichloroethene	Ave	0.2862	0.3026	0.2000	5.29	5.00	5.7	30.0
Methylcyclohexane	Ave	0.5124	0.5325	0.1000	5.20	5.00	3.9	30.0
1,2-Dichloropropane	Ave	0.2918	0.3059	0.1000	5.24	5.00	4.8	30.0
Methyl methacrylate	Ave	9.367	9.785		5.22	5.00	4.5	30.0
1,4-Dioxane	Ave	0.0603	0.0645	0.0050	134	125	6.9	30.0
Dibromomethane	Ave	0.1363	0.1457		5.35	5.00	6.9	30.0
Bromodichloromethane	Ave	0.3378	0.3590	0.2000	5.31	5.00	6.3	30.0
2-Nitropropane	Ave	3.061	2.847		4.65	5.00	-7.0	30.0
1-Bromo-2-chloroethane	Ave	0.2776	0.2965		5.34	5.00	6.8	30.0
cis-1,3-Dichloropropene	Ave	0.4365	0.4605	0.2000	5.27	5.00	5.5	30.0
4-Methyl-2-pentanone (MIBK)	Ave	12.91	13.77	0.1000	26.6	25.0	6.6	30.0
Toluene	Ave	0.9765	1.027	0.4000	5.26	5.00	5.2	30.0
trans-1,3-Dichloropropene	Ave	0.4976	0.5425	0.1000	5.45	5.00	9.0	30.0
Ethyl methacrylate	Ave	0.4219	0.4622		5.48	5.00	9.5	30.0
1,1,2-Trichloroethane	Ave	0.2715	0.2864	0.1000	5.28	5.00	5.5	30.0
Tetrachloroethene	Ave	0.4139	0.4431	0.2000	5.35	5.00	7.1	30.0
1,3-Dichloropropane	Ave	0.4847	0.5072		5.23	5.00	4.6	30.0
2-Hexanone	Ave	9.455	10.14	0.1000	26.8	25.0	7.3	30.0
Dibromochloromethane	Ave	0.3053	0.3320		5.44	5.00	8.7	30.0
1,2-Dibromoethane (EDB)	Ave	0.2619	0.2759	0.1000	5.27	5.00	5.4	30.0
1-Chlorohexane	Ave	0.5624	0.5678		5.05	5.00	1.0	30.0
Chlorobenzene	Ave	1.101	1.155	0.5000	5.25	5.00	4.9	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3674	0.3963		5.39	5.00	7.9	30.0
Ethylbenzene	Ave	1.904	2.017	0.1000	5.30	5.00	5.9	30.0
m&p-Xylene	Ave	0.7388	0.7894	0.1000	10.7	10.0	6.9	30.0
o-Xylene	Ave	0.7352	0.7792	0.3000	5.30	5.00	6.0	30.0
Styrene	Ave	1.227	1.310	0.3000	5.33	5.00	6.7	30.0
Bromoform	Ave	0.1736	0.1913	0.1000	5.51	5.00	10.2	30.0
Isopropylbenzene	Ave	1.906	1.991	0.1000	5.22	5.00	4.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6320	0.6820	0.3000	5.40	5.00	7.9	30.0
Bromobenzene	Ave	0.8507	0.8785		5.16	5.00	3.3	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1849	0.1899		25.7	25.0	2.7	30.0
1,2,3-Trichloropropane	Ave	0.1708	0.1757		5.14	5.00	2.9	30.0
N-Propylbenzene	Ave	4.117	4.437		5.39	5.00	7.8	30.0
2-Chlorotoluene	Ave	0.8522	0.8880		5.21	5.00	4.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45147-1

SDG No.:

Lab Sample ID: ICV 410-102081/19 Calibration Date: 03/11/2021 22:02

Instrument ID: 10193 Calib Start Date: 03/11/2021 19:26

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/11/2021 21:40

Lab File ID: CM11X19.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	3.017	3.198		5.30	5.00	6.0	30.0
4-Chlorotoluene	Ave	0.8919	0.9360		5.25	5.00	4.9	30.0
tert-Butylbenzene	Ave	0.6521	0.6727		5.16	5.00	3.2	30.0
Pentachloroethane	Ave	0.4696	0.5031		5.36	5.00	7.1	30.0
1,2,4-Trimethylbenzene	Ave	3.121	3.299		5.29	5.00	5.7	30.0
sec-Butylbenzene	Ave	3.866	4.154		5.37	5.00	7.5	30.0
1,3-Dichlorobenzene	Ave	1.681	1.775	0.6000	5.28	5.00	5.6	30.0
p-Isopropyltoluene	Ave	3.359	3.673		5.47	5.00	9.4	30.0
1,4-Dichlorobenzene	Ave	1.726	1.825	0.5000	5.29	5.00	5.7	30.0
1,2,3-Trimethylbenzene	Ave	1.387	1.522		5.49	5.00	9.7	30.0
Benzyl chloride	Ave	0.2357	0.2474		5.25	5.00	4.9	30.0
n-Butylbenzene	Ave	1.714	1.831		5.34	5.00	6.9	30.0
1,2-Dichlorobenzene	Ave	1.583	1.653	0.4000	5.22	5.00	4.4	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0874	0.0941	0.0500	5.38	5.00	7.6	30.0
1,3,5-Trichlorobenzene	Ave	1.379	1.438		5.21	5.00	4.3	30.0
1,2,4-Trichlorobenzene	Ave	1.239	1.286	0.2000	5.19	5.00	3.8	30.0
Hexachlorobutadiene	Ave	0.5884	0.6580		5.59	5.00	11.8	30.0
Naphthalene	Ave	2.234	2.229		4.99	5.00	-0.2	30.0
1,2,3-Trichlorobenzene	Ave	1.101	1.116		5.07	5.00	1.4	30.0
Dibromofluoromethane (Surr)	Ave	0.2368	0.2344		9.90	10.0	-1.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0488	0.0477		9.79	10.0	-2.1	30.0
Toluene-d8 (Surr)	Ave	1.338	1.345		10.1	10.0	0.6	30.0
4-Bromofluorobenzene (Surr)	Ave	0.5124	0.5169		10.1	10.0	0.9	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X19.D
Lims ID: ICV Lg
Client ID:
Sample Type: ICV
Inject. Date: 11-Mar-2021 22:02:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023820-019
Misc. Info.: ICV LG
Operator ID: SRK36897 Instrument ID: 10193
Sublist:

Method: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 23-Mar-2021 16:58:28 Calib Date: 11-Mar-2021 21:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1638

First Level Reviewer: knouses Date: 12-Mar-2021 10:57:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.886	1.879	0.007	99	360928	5.00	6.48	
3 Chloromethane	50	2.081	2.074	0.007	99	407606	5.00	5.92	
4 Butadiene	39	2.184	2.178	0.006	93	356990	5.00	4.72	
5 Vinyl chloride	62	2.190	2.184	0.006	98	409954	5.00	6.52	
6 Bromomethane	94	2.495	2.489	0.006	91	266086	5.00	5.88	
7 Chloroethane	64	2.568	2.562	0.006	99	234314	5.00	5.68	
8 Dichlorofluoromethane	67	2.806	2.800	0.006	97	515345	5.00	5.43	
9 Trichlorofluoromethane	101	2.867	2.861	0.006	98	501965	5.00	5.85	
11 Ethyl ether	59	3.093	3.086	0.007	93	252036	5.00	5.41	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.178	3.172	0.006	94	356116	5.00	5.30	
13 Acrolein	56	3.263	3.257	0.006	99	229784	37.5	35.8	
14 1,1-Dichloroethene	96	3.385	3.379	0.006	96	259296	5.00	5.36	
15 112TCTFE	101	3.422	3.410	0.012	93	260397	5.00	4.94	
16 Acetone	43	3.428	3.416	0.012	55	293615	37.5	38.8	M
17 Iodomethane	142	3.574	3.562	0.012	98	462848	5.00	4.89	
18 Isopropyl alcohol	45	3.568	3.586	-0.018	30	54676	37.5	30.4	
19 Ethyl bromide	108	3.599	3.592	0.007	99	196030	5.03	4.83	
20 Carbon disulfide	76	3.666	3.659	0.007	100	832396	5.00	5.03	
22 Methyl acetate	43	3.812	3.824	-0.012	98	95556	5.00	5.76	M
23 3-Chloro-1-propene	41	3.843	3.830	0.013	89	464652	5.00	5.19	
24 Methylene Chloride	84	4.019	4.007	0.012	95	284274	5.00	5.23	
* 25 t-Butyl alcohol-d10 (IS)	65	4.062	4.050	0.012	0	163911	50.0	50.0	
26 2-Methyl-2-propanol	59	4.190	4.165	0.025	100	154060	50.0	52.6	
27 Acrylonitrile	53	4.361	4.354	0.007	100	292044	25.0	27.2	
28 Methyl tert-butyl ether	73	4.397	4.391	0.006	91	789286	5.00	4.94	
29 trans-1,2-Dichloroethene	96	4.410	4.403	0.007	97	286947	5.00	5.17	
30 Hexane	57	4.836	4.824	0.012	95	432458	5.00	4.93	
32 1,1-Dichloroethane	63	5.080	5.074	0.006	96	545364	5.00	5.18	
33 Isopropyl ether	45	5.141	5.129	0.012	93	1015085	5.00	5.13	
34 2-Chloro-1,3-butadiene	53	5.190	5.184	0.006	92	500525	5.00	5.25	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Tert-butyl ethyl ether	59	5.671	5.665	0.006	98	979873	5.00	5.09	
36 2-Butanone (MEK)	43	5.885	5.885	0.000	100	616393	37.5	40.1	
37 cis-1,2-Dichloroethene	96	5.915	5.915	0.000	84	326144	5.00	5.22	
38 2,2-Dichloropropane	77	5.934	5.921	0.013	89	429678	5.00	5.03	
40 Propionitrile	54	5.982	5.988	-0.006	98	152477	37.5	37.6	
43 Methacrylonitrile	67	6.196	6.189	0.007	92	587970	37.5	38.7	
44 Chlorobromomethane	128	6.251	6.244	0.007	95	139863	5.00	5.04	
45 Tetrahydrofuran	71	6.251	6.250	0.001	74	121508	25.0	27.4	
46 Chloroform	83	6.409	6.403	0.006	95	525298	5.00	5.22	
$ 47 Dibromofluoromethane (Surr)	113	6.622	6.622	0.000	93	494642	10.0	9.90	
48 1,1,1-Trichloroethane	97	6.629	6.622	0.007	99	472568	5.00	5.34	
49 Cyclohexane	56	6.720	6.714	0.006	92	549797	5.00	5.20	
50 Carbon tetrachloride	117	6.836	6.830	0.006	97	398586	5.00	5.40	
51 1,1-Dichloropropene	75	6.842	6.842	0.000	95	427219	5.00	5.20	
52 Isobutyl alcohol	41	7.025	7.031	-0.006	94	139207	125.0	127.9	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.080	7.080	0.000	0	100722	10.0	9.79	
54 Benzene	78	7.104	7.104	0.000	97	1227060	5.00	5.15	
55 1,2-Dichloroethane	62	7.177	7.171	0.006	97	355386	5.00	5.00	
56 Tert-amyl methyl ether	73	7.299	7.299	0.000	98	896795	5.00	5.23	
* 57 Fluorobenzene (IS)	96	7.519	7.512	0.007	99	2109844	10.0	10.0	
58 n-Heptane	43	7.525	7.525	0.000	92	486442	5.00	5.04	
59 n-Butanol	56	7.921	7.927	-0.006	90	250879	250.0	271.8	
60 Trichloroethene	95	7.994	7.994	0.000	98	319187	5.00	5.29	
61 Methylcyclohexane	83	8.299	8.299	0.000	93	561728	5.00	5.20	
62 1,2-Dichloropropane	63	8.336	8.335	0.001	94	322719	5.00	5.24	
63 2-ethoxy-2-methyl butane	87	8.348	8.342	0.006	92	506297	5.00	5.29	
64 Methyl methacrylate	69	8.427	8.433	-0.006	91	160384	5.00	5.22	
66 Dibromomethane	93	8.445	8.439	0.006	97	153722	5.00	5.35	
65 1,4-Dioxane	88	8.439	8.482	-0.043	29	26435	125.0	133.7	M
67 Dichlorobromomethane	83	8.689	8.689	0.000	99	378759	5.00	5.31	
68 2-Nitropropane	41	8.970	8.969	0.001	99	46666	5.00	4.65	
69 2-Chloroethyl vinyl ether	63		9.067				ND	ND	
71 1-Bromo-2-chloroethane	63	9.079	9.079	0.000	99	312740	5.00	5.34	
72 cis-1,3-Dichloropropene	75	9.244	9.250	-0.006	94	485750	5.00	5.27	
73 4-Methyl-2-pentanone (MIBK)	43	9.439	9.433	0.006	97	1128184	25.0	26.6	
$ 74 Toluene-d8 (Surr)	98	9.567	9.561	0.006	94	2089216	10.0	10.1	
75 Toluene	92	9.640	9.640	0.000	98	797403	5.00	5.26	
76 trans-1,3-Dichloropropene	75	9.915	9.914	0.001	95	421256	5.00	5.45	
78 Ethyl methacrylate	69	9.982	9.981	0.001	90	358900	5.00	5.48	
79 1,1,2-Trichloroethane	97	10.122	10.122	0.000	92	222412	5.00	5.28	
80 Tetrachloroethene	166	10.207	10.201	0.006	96	344102	5.00	5.35	
81 1,3-Dichloropropane	76	10.293	10.292	0.000	93	393857	5.00	5.23	
82 2-Hexanone	43	10.353	10.353	0.000	97	831345	25.0	26.8	
83 Chlorodibromomethane	129	10.506	10.506	0.000	90	257767	5.00	5.44	
84 Ethylene Dibromide	107	10.616	10.615	0.001	99	214269	5.00	5.27	
* 85 Chlorobenzene-d5 (IS)	117	11.061	11.060	0.001	87	1553035	10.0	10.0	
86 1-Chlorohexane	91	11.073	11.073	0.000	97	440887	5.00	5.05	
87 Chlorobenzene	112	11.085	11.085	0.000	94	897095	5.00	5.25	
89 1,1,1,2-Tetrachloroethane	131	11.170	11.170	0.000	94	307760	5.00	5.39	
90 Ethylbenzene	91	11.176	11.176	0.000	99	1566194	5.00	5.30	
91 m-Xylene & p-Xylene	106	11.292	11.292	0.000	99	1225994	10.0	10.7	
92 o-Xylene	106	11.628	11.627	0.001	96	605086	5.00	5.30	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
93 Styrene	104	11.646	11.646	0.000	95	1016854	5.00	5.33	
94 Bromoform	173	11.804	11.804	0.000	97	148528	5.00	5.51	
95 Isopropylbenzene	105	11.932	11.932	0.000	96	1545712	5.00	5.22	
$ 98 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	88	802723	10.0	10.1	
99 1,1,2,2-Tetrachloroethane	83	12.188	12.188	0.000	95	291341	5.00	5.40	
100 Bromobenzene	156	12.195	12.194	0.001	95	375274	5.00	5.16	
101 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	91	405695	25.0	25.7	
102 1,2,3-Trichloropropane	110	12.231	12.231	0.000	83	75054	5.00	5.14	
103 N-Propylbenzene	91	12.268	12.268	0.000	99	1895622	5.00	5.39	
104 2-Chlorotoluene	126	12.341	12.341	0.000	96	379329	5.00	5.21	
105 1,3,5-Trimethylbenzene	105	12.402	12.408	-0.006	94	1366138	5.00	5.30	
106 4-Chlorotoluene	126	12.438	12.438	0.000	98	399845	5.00	5.25	
107 tert-Butylbenzene	134	12.646	12.646	0.000	93	287361	5.00	5.16	
108 Pentachloroethane	167	12.682	12.682	0.000	89	214915	5.00	5.36	
109 1,2,4-Trimethylbenzene	105	12.694	12.694	0.000	97	1409322	5.00	5.29	
110 sec-Butylbenzene	105	12.816	12.816	0.000	94	1774715	5.00	5.37	
111 1,3-Dichlorobenzene	146	12.914	12.914	0.000	97	758400	5.00	5.28	
112 4-Isopropyltoluene	119	12.926	12.926	0.000	97	1569073	5.00	5.47	
* 113 1,4-Dichlorobenzene-d4	152	12.969	12.969	0.000	96	854376	10.0	10.0	
114 1,4-Dichlorobenzene	146	12.987	12.987	0.000	93	779639	5.00	5.29	
115 1,2,3-Trimethylbenzene	120	12.999	12.999	0.000	99	650154	5.00	5.49	
116 Benzyl chloride	126	13.066	13.072	-0.006	99	105676	5.00	5.25	
119 n-Butylbenzene	92	13.219	13.219	0.000	98	782195	5.00	5.34	
120 1,2-Dichlorobenzene	146	13.249	13.249	0.000	97	706267	5.00	5.22	
118 p-Diethylbenzene	119	13.274	13.273	0.001	87	787192	5.00	5.36	
123 1,2-Dibromo-3-Chloropropane	155	13.804	13.804	0.000	83	40194	5.00	5.38	
124 1,3,5-Trichlorobenzene	180	13.926	13.926	0.000	97	614228	5.00	5.21	
125 1,2,4-Trichlorobenzene	180	14.353	14.353	0.000	94	549308	5.00	5.19	
126 Hexachlorobutadiene	225	14.438	14.438	0.000	98	281099	5.00	5.59	
127 Naphthalene	128	14.536	14.535	0.001	97	952314	5.00	4.99	
128 1,2,3-Trichlorobenzene	180	14.682	14.682	0.000	95	476816	5.00	5.07	
129 2-Methylnaphthalene	142	15.304	15.304	0.000	92	585503	5.00	4.43	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_Q_QVOA1_00071	Amount Added:	12.50	Units: uL	
MSV_Q_QVOA6_00069	Amount Added:	12.50	Units: uL	
MSV_Q_EE_00003	Amount Added:	12.50	Units: uL	
MSV_Q_ETBR_00006	Amount Added:	12.50	Units: uL	
MSV_QGAS_826_00114	Amount Added:	12.50	Units: uL	
MSV_Q_QARC_00071	Amount Added:	12.50	Units: uL	
MSV_HP25_ISSS_00023	Amount Added:	1.00	Units: uL	Run Reagent

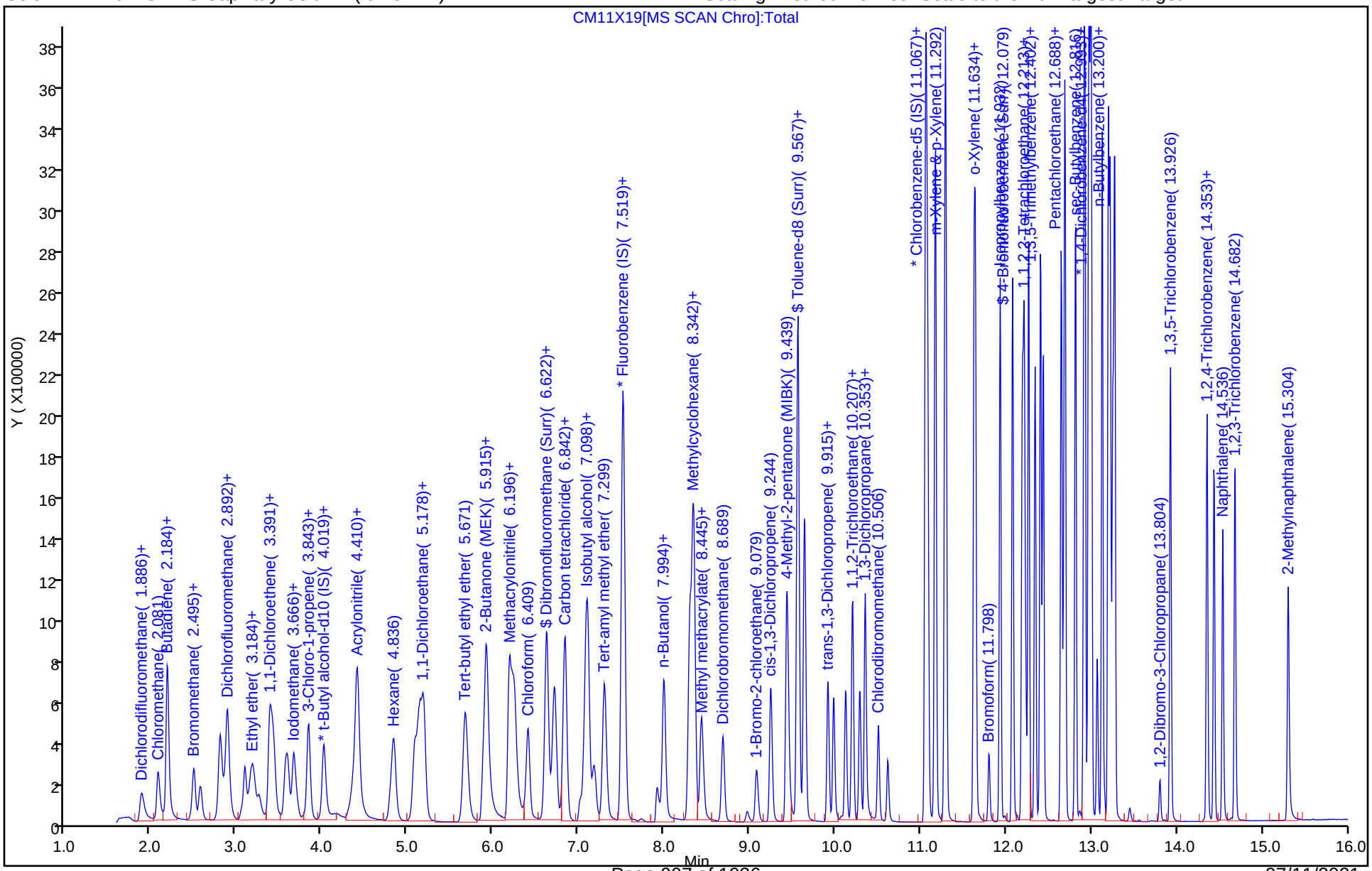
Report Date: 23-Mar-2021 16:58:35 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X19.D

Injection Date:	11-Mar-2021 22:02:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	ICV Lg			Worklist Smp#:	19
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

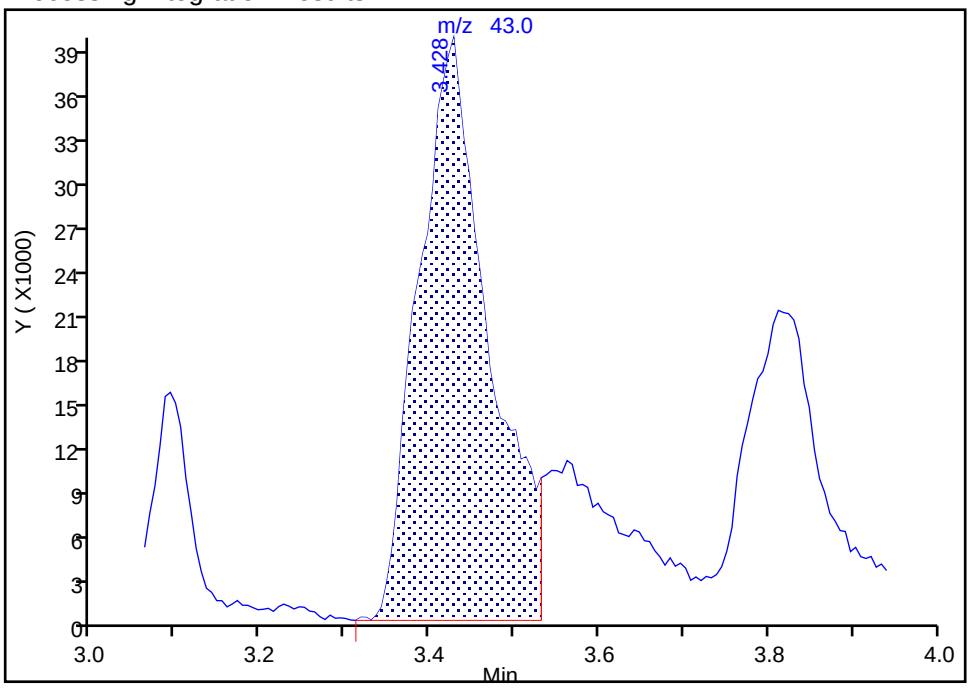
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X19.D
Injection Date: 11-Mar-2021 22:02:30 Instrument ID: 10193
Lims ID: ICV Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

16 Acetone, CAS: 67-64-1

Signal: 1

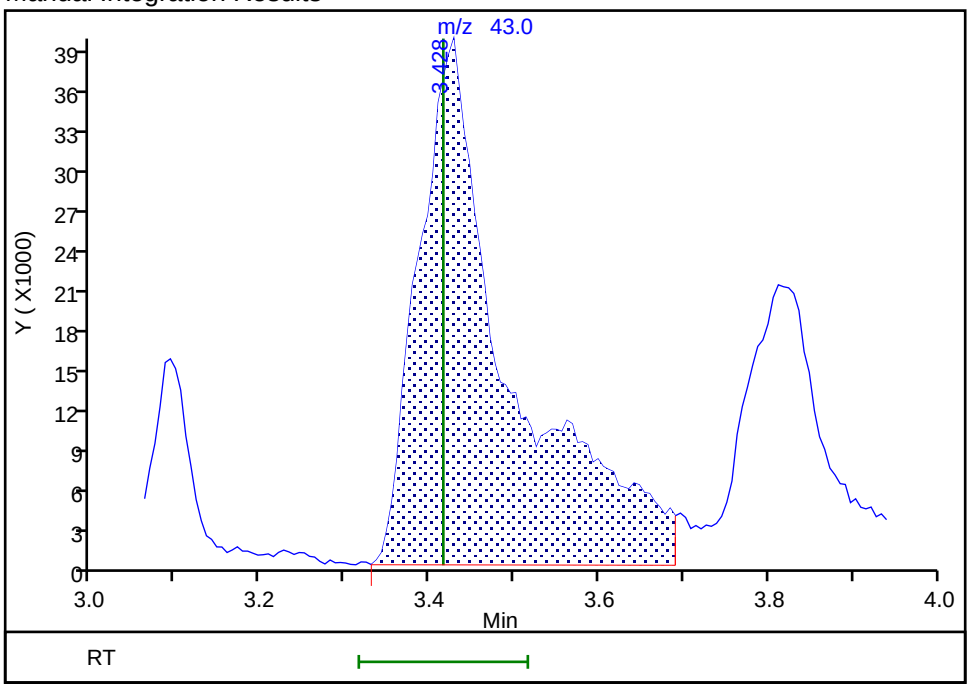
Processing Integration Results

RT: 3.43
Area: 225896
Amount: 29.835544
Amount Units: ug/l



Manual Integration Results

RT: 3.43
Area: 293615
Amount: 38.779630
Amount Units: ug/l



Reviewer: spositok, 23-Mar-2021 16:50:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

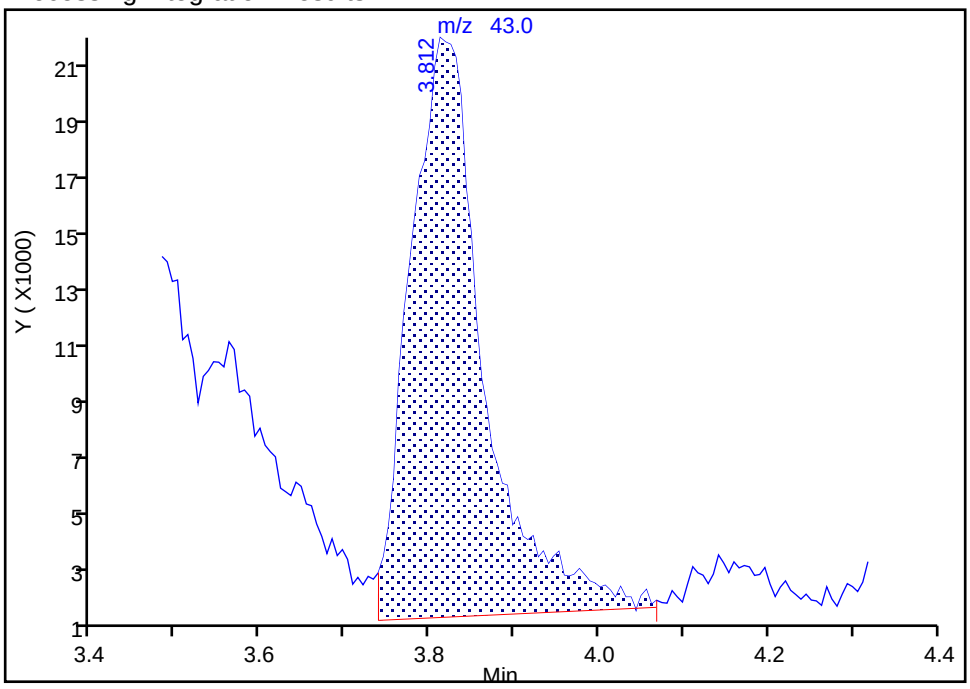
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X19.D				
Injection Date:	11-Mar-2021 22:02:30	Instrument ID:	10193		
Lims ID:	ICV Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	19	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

22 Methyl acetate, CAS: 79-20-9

Signal: 1

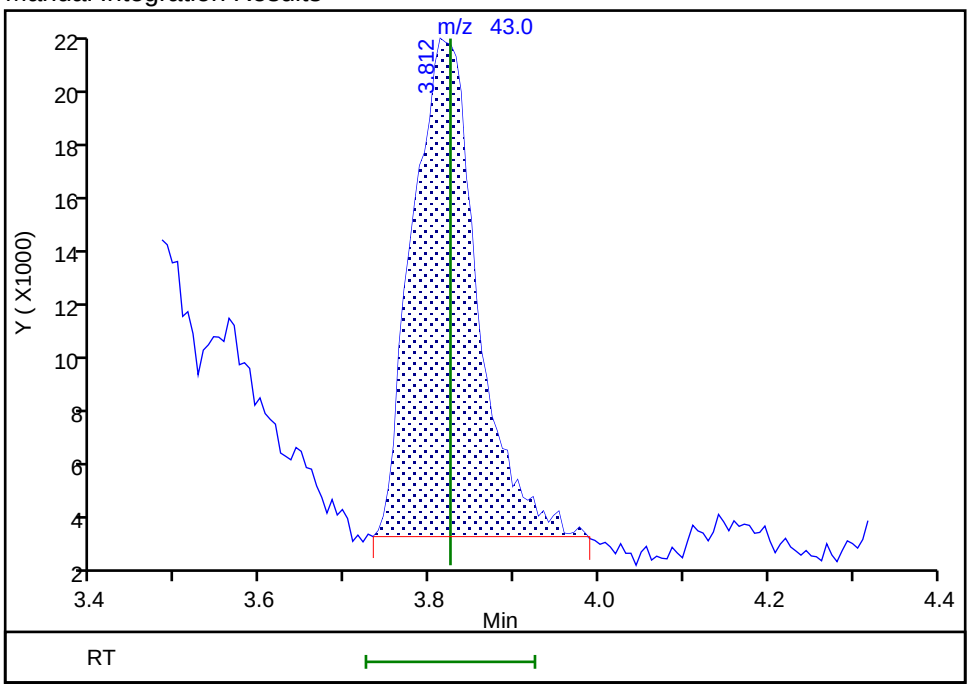
Processing Integration Results

RT: 3.81
Area: 116274
Amount: 4.908662
Amount Units: ug/l



Manual Integration Results

RT: 3.81
Area: 95556
Amount: 5.755835
Amount Units: ug/l



Reviewer: knouses, 23-Mar-2021 12:28:12

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

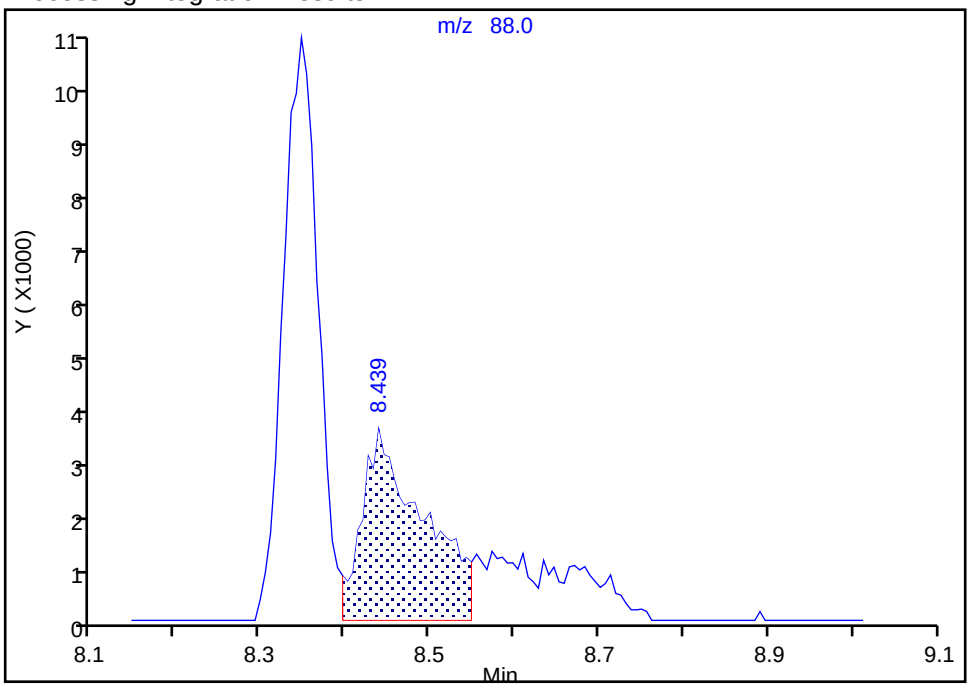
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X19.D				
Injection Date:	11-Mar-2021 22:02:30	Instrument ID:	10193		
Lims ID:	ICV Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	19	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

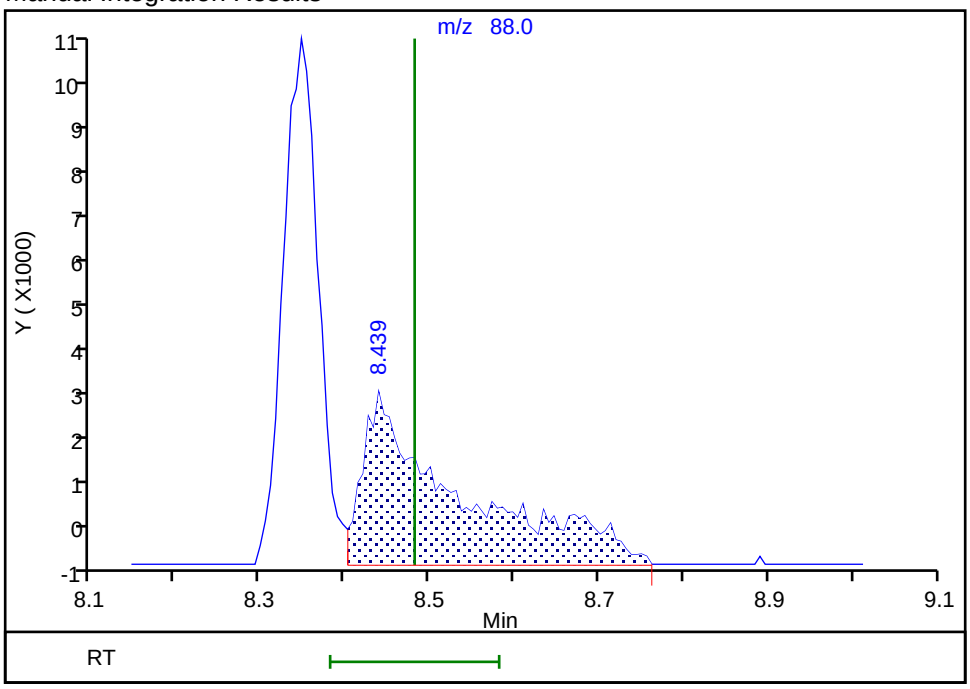
Processing Integration Results

RT: 8.44
Area: 16945
Amount: 95.605344
Amount Units: ug/l



Manual Integration Results

RT: 8.44
Area: 26435
Amount: 133.6575
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:57:18

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45147-1

SDG No.:

Lab Sample ID: CCVIS 410-145209/3 Calibration Date: 07/06/2021 10:14

Instrument ID: 10193 Calib Start Date: 03/11/2021 19:26

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/11/2021 21:40

Lab File ID: CL06X02.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	0.2642	0.3115	0.1000	14.7	12.5	17.9	20.0
Chloromethane	Ave	0.3264	0.4179	0.1000	16.0	12.5	28.0*	20.0
1,3-Butadiene	Ave	0.3583	0.4681		16.3	12.5	30.6*	20.0
Vinyl chloride	Ave	0.2982	0.3890	0.1000	16.3	12.5	30.4*	20.0
Bromomethane	Ave	0.2145	0.2227	0.1000	13.0	12.5	3.8	20.0
Chloroethane	Ave	0.1954	0.2133	0.1000	13.6	12.5	9.2	20.0
Dichlorofluoromethane	Ave	0.4502	0.5063		14.1	12.5	12.5	20.0
Trichlorofluoromethane	Ave	0.4066	0.4226	0.1000	13.0	12.5	3.9	20.0
Ethyl ether	Ave	0.2206	0.2430		13.8	12.5	10.1	20.0
Freon 123a	Ave	0.3186	0.3345		13.1	12.5	5.0	20.0
Acrolein	Ave	1.957	1.084		693	1250	-44.6*	20.0
1,1-Dichloroethene	Ave	0.2295	0.2367	0.1000	12.9	12.5	3.1	20.0
Acetone	Ave	2.310	2.299	0.1000	124	125	-0.4	20.0
Freon 113	Ave	0.2498	0.2488	0.1000	12.4	12.5	-0.4	20.0
Methyl iodide	Ave	0.4484	0.4291		12.0	12.5	-4.3	20.0
Ethyl bromide	Ave	0.1924	0.2010		13.0	12.5	4.5	20.0
Carbon disulfide	Ave	0.7836	0.9169	0.1000	14.6	12.5	17.0	20.0
Methyl acetate	Ave	5.064	7.939	0.1000	19.6	12.5	56.8*	20.0
Allyl chloride	Ave	0.4243	0.5385		15.9	12.5	26.9*	20.0
Methylene Chloride	Ave	0.2576	0.2692	0.1000	13.1	12.5	4.5	20.0
t-Butyl alcohol	Ave	0.8940	0.9894		277	250	10.7	20.0
Acrylonitrile	Ave	3.281	4.308		41.0	31.3	31.3*	20.0
Methyl tert-butyl ether	Ave	0.7571	0.7793	0.1000	12.9	12.5	2.9	20.0
trans-1,2-Dichloroethene	Ave	0.2633	0.2704	0.1000	12.8	12.5	2.7	20.0
n-Hexane	Ave	0.4162	0.4878		14.7	12.5	17.2	20.0
1,1-Dichloroethane	Ave	0.4986	0.5482	0.2000	13.7	12.5	10.0	20.0
di-Isopropyl ether	Ave	0.9384	1.149		15.3	12.5	22.4*	20.0
2-Chloro-1,3-butadiene	Ave	0.4522	0.4946		13.7	12.5	9.4	20.0
Ethyl t-butyl ether	Ave	0.9132	0.9663		13.2	12.5	5.8	20.0
2-Butanone (MEK)	Ave	4.694	6.403	0.1000	171	125	36.4*	20.0
cis-1,2-Dichloroethene	Ave	0.2961	0.2932	0.1000	12.4	12.5	-1.0	20.0
2,2-Dichloropropane	Ave	0.4049	0.4032		12.4	12.5	-0.4	20.0
Propionitrile	Ave	1.238	1.486		300	250	20.1*	20.0
Methacrylonitrile	Ave	4.632	5.523		149	125	19.2	20.0
Bromochloromethane	Ave	0.1316	0.1258		12.0	12.5	-4.3	20.0
Tetrahydrofuran	Ave	1.352	1.556		71.9	62.5	15.1	20.0
Chloroform	Ave	0.4767	0.4834	0.2000	12.7	12.5	1.4	20.0
1,1,1-Trichloroethane	Ave	0.4195	0.4151	0.1000	12.4	12.5	-1.1	20.0
Cyclohexane	Ave	0.5014	0.5905	0.1000	14.7	12.5	17.8	20.0
Carbon tetrachloride	Ave	0.3500	0.3498	0.1000	12.5	12.5	-0.0	20.0
1,1-Dichloropropene	Ave	0.3897	0.4076		13.1	12.5	4.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45147-1

SDG No.:

Lab Sample ID: CCVIS 410-145209/3 Calibration Date: 07/06/2021 10:14

Instrument ID: 10193 Calib Start Date: 03/11/2021 19:26

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/11/2021 21:40

Lab File ID: CL06X02.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	0.3320	0.3960		746	625	19.3	20.0
Benzene	Ave	1.129	1.183	0.5000	13.1	12.5	4.7	20.0
1,2-Dichloroethane	Ave	0.3366	0.3279	0.1000	12.2	12.5	-2.6	20.0
t-Amyl methyl ether	Ave	0.8129	0.8282		12.7	12.5	1.9	20.0
n-Heptane	Ave	0.4574	0.5694		15.6	12.5	24.5*	20.0
n-Butanol	Ave	0.2815	0.3133		1120	1090	11.3	20.0
Trichloroethene	Ave	0.2862	0.2921	0.2000	12.8	12.5	2.1	20.0
Methylcyclohexane	Ave	0.5124	0.5668	0.1000	13.8	12.5	10.6	20.0
1,2-Dichloropropane	Ave	0.2918	0.3251	0.1000	13.9	12.5	11.4	20.0
Methyl methacrylate	Ave	9.367	10.75		14.3	12.5	14.8	20.0
Dibromomethane	Ave	0.1363	0.1413		13.0	12.5	3.7	20.0
1,4-Dioxane	Ave	0.0603	0.0555	0.0050	575	625	-8.0	20.0
Bromodichloromethane	Ave	0.3378	0.3552	0.2000	13.1	12.5	5.1	20.0
2-Nitropropane	Ave	3.061	3.377		69.0	62.5	10.3	20.0
1-Bromo-2-chloroethane	Ave	0.2776	0.3400		15.3	12.5	22.5*	20.0
cis-1,3-Dichloropropene	Ave	0.4365	0.4781	0.2000	13.7	12.5	9.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	12.91	17.22	0.1000	167	125	33.4*	20.0
Toluene	Ave	0.9765	0.9728	0.4000	12.5	12.5	-0.4	20.0
trans-1,3-Dichloropropene	Ave	0.4976	0.5239	0.1000	13.2	12.5	5.3	20.0
Ethyl methacrylate	Ave	0.4219	0.4518		13.4	12.5	7.1	20.0
1,1,2-Trichloroethane	Ave	0.2715	0.2655	0.1000	12.2	12.5	-2.2	20.0
Tetrachloroethene	Ave	0.4139	0.4019	0.2000	12.1	12.5	-2.9	20.0
1,3-Dichloropropane	Ave	0.4847	0.4979		12.8	12.5	2.7	20.0
2-Hexanone	Ave	9.455	12.58	0.1000	166	125	33.1*	20.0
Dibromochloromethane	Ave	0.3053	0.3204		13.1	12.5	4.9	20.0
1,2-Dibromoethane (EDB)	Ave	0.2619	0.2592	0.1000	12.4	12.5	-1.0	20.0
1-Chlorohexane	Ave	0.5624	0.5477		12.2	12.5	-2.6	20.0
Chlorobenzene	Ave	1.101	1.056	0.5000	12.0	12.5	-4.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3674	0.3500		11.9	12.5	-4.7	20.0
Ethylbenzene	Ave	1.904	1.911	0.1000	12.5	12.5	0.3	20.0
m&p-Xylene	Ave	0.7388	0.7256	0.1000	24.6	25.0	-1.8	20.0
o-Xylene	Ave	0.7352	0.7290	0.3000	12.4	12.5	-0.8	20.0
Styrene	Ave	1.227	1.221	0.3000	12.4	12.5	-0.5	20.0
Bromoform	Ave	0.1736	0.1905	0.1000	13.7	12.5	9.8	20.0
Isopropylbenzene	Ave	1.906	1.870	0.1000	12.3	12.5	-1.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6320	0.6120	0.3000	12.1	12.5	-3.2	20.0
Bromobenzene	Ave	0.8507	0.7269		10.7	12.5	-14.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1849	0.1979		134	125	7.0	20.0
1,2,3-Trichloropropane	Ave	0.1708	0.1501		11.0	12.5	-12.1	20.0
N-Propylbenzene	Ave	4.117	3.915		11.9	12.5	-4.9	20.0
2-Chlorotoluene	Ave	0.8522	0.7516		11.0	12.5	-11.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45147-1

SDG No.:

Lab Sample ID: CCVIS 410-145209/3 Calibration Date: 07/06/2021 10:14

Instrument ID: 10193 Calib Start Date: 03/11/2021 19:26

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/11/2021 21:40

Lab File ID: CL06X02.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	3.017	2.792		11.6	12.5	-7.4	20.0
4-Chlorotoluene	Ave	0.8919	0.7834		11.0	12.5	-12.2	20.0
tert-Butylbenzene	Ave	0.6521	0.5665		10.9	12.5	-13.1	20.0
Pentachloroethane	Ave	0.4696	0.4468		11.9	12.5	-4.9	20.0
1,2,4-Trimethylbenzene	Ave	3.121	2.919		11.7	12.5	-6.5	20.0
sec-Butylbenzene	Ave	3.866	3.564		11.5	12.5	-7.8	20.0
1,3-Dichlorobenzene	Ave	1.681	1.510	0.6000	11.2	12.5	-10.1	20.0
p-Isopropyltoluene	Ave	3.359	3.095		11.5	12.5	-7.9	20.0
1,4-Dichlorobenzene	Ave	1.726	1.531	0.5000	11.1	12.5	-11.3	20.0
1,2,3-Trimethylbenzene	Ave	1.387	1.273		11.5	12.5	-8.2	20.0
Benzyl chloride	Ave	0.2357	0.2513		13.3	12.5	6.6	20.0
n-Butylbenzene	Ave	1.714	1.655		12.1	12.5	-3.4	20.0
1,2-Dichlorobenzene	Ave	1.583	1.415	0.4000	11.2	12.5	-10.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0874	0.0836	0.0500	12.0	12.5	-4.3	20.0
1,3,5-Trichlorobenzene	Ave	1.379	1.232		11.2	12.5	-10.7	20.0
1,2,4-Trichlorobenzene	Ave	1.239	1.081	0.2000	10.9	12.5	-12.7	20.0
Hexachlorobutadiene	Ave	0.5884	0.5227		11.1	12.5	-11.2	20.0
Naphthalene	Ave	2.234	1.923		10.8	12.5	-13.9	20.0
1,2,3-Trichlorobenzene	Ave	1.101	0.8888		10.1	12.5	-19.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2368	0.2312		9.76	10.0	-2.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0488	0.0505		10.4	10.0	3.6	20.0
Toluene-d8 (Surr)	Ave	1.338	1.335		9.98	10.0	-0.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5124	0.5266		10.3	10.0	2.8	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X02.D
Lims ID: CCVIS VSTD12.5
Client ID:
Sample Type: CCVIS
Inject. Date: 06-Jul-2021 10:14:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033571-003
Misc. Info.: CCVIS VSTD12.5
Operator ID: SRK36897 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 14:18:17 Calib Date: 13-Apr-2021 23:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1667

First Level Reviewer: knouses Date: 06-Jul-2021 11:10:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.885	1.885	0.000	99	863311	12.5	14.7	
3 Chloromethane	50	2.081	2.081	0.000	99	1158353	12.5	16.0	
4 Butadiene	39	2.184	2.184	0.000	97	1297364	12.5	16.3	
5 Vinyl chloride	62	2.184	2.184	0.000	98	1078166	12.5	16.3	
6 Bromomethane	94	2.495	2.495	0.000	92	617113	12.5	13.0	
7 Chloroethane	64	2.568	2.568	0.000	99	591216	12.5	13.6	
8 Dichlorofluoromethane	67	2.800	2.800	0.000	98	1403396	12.5	14.1	
9 Trichlorofluoromethane	101	2.867	2.867	0.000	98	1171254	12.5	13.0	M
11 Ethyl ether	59	3.074	3.074	0.000	96	673444	12.5	13.8	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.178	3.178	0.000	96	927162	12.5	13.1	
13 Acrolein	56	3.239	3.239	0.000	99	4529192	1250.0	692.6	
14 1,1-Dichloroethene	96	3.373	3.373	0.000	95	655973	12.5	12.9	
16 Acetone	43	3.403	3.403	0.000	99	960382	125.0	124.4	
15 112TCTFE	101	3.416	3.416	0.000	92	689465	12.5	12.4	
17 Iodomethane	142	3.556	3.556	0.000	99	1189432	12.5	12.0	
18 Isopropyl alcohol	45	3.580	3.580	0.000	95	516811	250.0	282.0	
19 Ethyl bromide	108	3.580	3.580	0.000	98	556660	12.5	13.0	
20 Carbon disulfide	76	3.684	3.684	0.000	100	2541297	12.5	14.6	
22 Methyl acetate	43	3.788	3.788	0.000	97	331595	12.5	19.6	M
23 3-Chloro-1-propene	41	3.812	3.812	0.000	90	1492504	12.5	15.9	
24 Methylene Chloride	84	3.989	3.989	0.000	98	746170	12.5	13.1	
* 25 t-Butyl alcohol-d10 (IS)	65	4.044	4.044	0.000	92	167076	50.0	50.0	
26 2-Methyl-2-propanol	59	4.153	4.153	0.000	99	826514	250.0	276.7	M
27 Acrylonitrile	53	4.324	4.324	0.000	98	449871	31.3	41.0	
28 Methyl tert-butyl ether	73	4.373	4.373	0.000	97	2160014	12.5	12.9	
29 trans-1,2-Dichloroethene	96	4.379	4.379	0.000	95	749522	12.5	12.8	
30 Hexane	57	4.806	4.806	0.000	96	1352004	12.5	14.7	
32 1,1-Dichloroethane	63	5.049	5.049	0.000	96	1519362	12.5	13.7	
33 Isopropyl ether	45	5.104	5.104	0.000	95	3184803	12.5	15.3	
34 2-Chloro-1,3-butadiene	53	5.159	5.159	0.000	93	1370748	12.5	13.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Tert-butyl ethyl ether	59	5.647	5.647	0.000	98	2678113	12.5	13.2	
36 2-Butanone (MEK)	43	5.860	5.860	0.000	99	2674649	125.0	170.5	
37 cis-1,2-Dichloroethene	96	5.891	5.891	0.000	85	812611	12.5	12.4	
38 2,2-Dichloropropane	77	5.903	5.903	0.000	90	1117474	12.5	12.4	
40 Propionitrile	54	5.958	5.958	0.000	99	1241598	250.0	300.2	
43 Methacrylonitrile	67	6.165	6.165	0.000	95	2306811	125.0	149.1	
44 Chlorobromomethane	128	6.226	6.226	0.000	93	348799	12.5	12.0	
45 Tetrahydrofuran	71	6.226	6.226	0.000	77	324965	62.5	71.9	
46 Chloroform	83	6.378	6.378	0.000	95	1339733	12.5	12.7	
$ 47 Dibromofluoromethane (Surr)	113	6.598	6.598	0.000	93	512556	10.0	9.76	
48 1,1,1-Trichloroethane	97	6.598	6.598	0.000	98	1150454	12.5	12.4	
49 Cyclohexane	56	6.689	6.689	0.000	95	1636712	12.5	14.7	
50 Carbon tetrachloride	117	6.805	6.805	0.000	97	969607	12.5	12.5	
51 1,1-Dichloropropene	75	6.817	6.817	0.000	95	1129803	12.5	13.1	
52 Isobutyl alcohol	41	7.006	7.006	0.000	95	827006	625.0	745.5	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.055	7.055	0.000	99	112031	10.0	10.4	
54 Benzene	78	7.080	7.080	0.000	98	3277573	12.5	13.1	
55 1,2-Dichloroethane	62	7.159	7.159	0.000	97	908842	12.5	12.2	
56 Tert-amyl methyl ether	73	7.275	7.275	0.000	97	2295432	12.5	12.7	
* 57 Fluorobenzene (IS)	96	7.494	7.494	0.000	98	2217290	10.0	10.0	
58 n-Heptane	43	7.500	7.500	0.000	96	1578110	12.5	15.6	
59 n-Butanol	56	7.896	7.896	0.000	93	1144917	1093.8	1121.2	
60 Trichloroethene	95	7.976	7.976	0.000	98	809702	12.5	12.8	
61 Methylcyclohexane	83	8.274	8.274	0.000	95	1570960	12.5	13.8	
62 1,2-Dichloropropane	63	8.305	8.305	0.000	96	901028	12.5	13.9	
63 2-ethoxy-2-methyl butane	87	8.323	8.323	0.000	90	1246239	12.5	12.4	
64 Methyl methacrylate	69	8.402	8.402	0.000	95	449127	12.5	14.3	
66 Dibromomethane	93	8.421	8.421	0.000	96	391664	12.5	13.0	
65 1,4-Dioxane	88	8.433	8.433	0.000	34	115894	625.0	574.9	
67 Dichlorobromomethane	83	8.665	8.665	0.000	98	984476	12.5	13.1	
68 2-Nitropropane	41	8.945	8.945	0.000	99	705259	62.5	69.0	
71 1-Bromo-2-chloroethane	63	9.061	9.061	0.000	99	942239	12.5	15.3	
72 cis-1,3-Dichloropropene	75	9.225	9.225	0.000	93	1324991	12.5	13.7	
73 4-Methyl-2-pentanone (MIBK)	43	9.414	9.414	0.000	99	7194163	125.0	166.7	
$ 74 Toluene-d8 (Surr)	98	9.542	9.542	0.000	94	2285071	10.0	9.98	
75 Toluene	92	9.622	9.622	0.000	97	2081889	12.5	12.5	
76 trans-1,3-Dichloropropene	75	9.896	9.896	0.000	96	1121254	12.5	13.2	
78 Ethyl methacrylate	69	9.963	9.963	0.000	92	966901	12.5	13.4	
79 1,1,2-Trichloroethane	97	10.103	10.103	0.000	92	568223	12.5	12.2	
80 Tetrachloroethene	166	10.189	10.189	0.000	96	860153	12.5	12.1	
81 1,3-Dichloropropane	76	10.274	10.274	0.000	95	1065644	12.5	12.8	
82 2-Hexanone	43	10.335	10.335	0.000	99	5254849	125.0	166.3	
83 Chlorodibromomethane	129	10.487	10.487	0.000	91	685655	12.5	13.1	
84 Ethylene Dibromide	107	10.597	10.597	0.000	98	554772	12.5	12.4	
* 85 Chlorobenzene-d5 (IS)	117	11.042	11.042	0.000	88	1712082	10.0	10.0	
86 1-Chlorohexane	91	11.054	11.054	0.000	91	1172076	12.5	12.2	
87 Chlorobenzene	112	11.067	11.067	0.000	94	2260572	12.5	12.0	
89 1,1,1,2-Tetrachloroethane	131	11.152	11.152	0.000	94	749023	12.5	11.9	
90 Ethylbenzene	91	11.158	11.158	0.000	99	4088807	12.5	12.5	
91 m-Xylene & p-Xylene	106	11.274	11.274	0.000	98	3105719	25.0	24.6	
92 o-Xylene	106	11.609	11.609	0.000	97	1560100	12.5	12.4	
93 Styrene	104	11.627	11.627	0.000	95	2612335	12.5	12.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
94 Bromoform	173	11.786	11.786	0.000	96	407746	12.5	13.7	
95 Isopropylbenzene	105	11.920	11.920	0.000	96	4001245	12.5	12.3	
$ 98 4-Bromofluorobenzene (Surr)	95	12.060	12.060	0.000	87	901617	10.0	10.3	
99 1,1,2,2-Tetrachloroethane	83	12.170	12.170	0.000	93	770430	12.5	12.1	
100 Bromobenzene	156	12.182	12.182	0.000	96	915013	12.5	10.7	
101 trans-1,4-Dichloro-2-butene	53	12.201	12.201	0.000	95	2490913	125.0	133.7	
102 1,2,3-Trichloropropane	110	12.219	12.219	0.000	82	188921	12.5	11.0	
103 N-Propylbenzene	91	12.249	12.249	0.000	99	4928828	12.5	11.9	
104 2-Chlorotoluene	126	12.329	12.329	0.000	96	946166	12.5	11.0	
105 1,3,5-Trimethylbenzene	105	12.389	12.389	0.000	94	3515068	12.5	11.6	
106 4-Chlorotoluene	126	12.420	12.420	0.000	98	986165	12.5	11.0	
107 tert-Butylbenzene	134	12.633	12.633	0.000	94	713114	12.5	10.9	
108 Pentachloroethane	167	12.664	12.664	0.000	92	562430	12.5	11.9	
109 1,2,4-Trimethylbenzene	105	12.676	12.676	0.000	98	3675101	12.5	11.7	
110 sec-Butylbenzene	105	12.804	12.804	0.000	95	4486646	12.5	11.5	
111 1,3-Dichlorobenzene	146	12.902	12.902	0.000	97	1900773	12.5	11.2	
112 4-Isopropyltoluene	119	12.908	12.908	0.000	97	3896311	12.5	11.5	
* 113 1,4-Dichlorobenzene-d4	152	12.956	12.956	0.000	95	1007053	10.0	10.0	
114 1,4-Dichlorobenzene	146	12.975	12.975	0.000	93	1927290	12.5	11.1	
115 1,2,3-Trimethylbenzene	120	12.987	12.987	0.000	99	1602761	12.5	11.5	
116 Benzyl chloride	126	13.054	13.054	0.000	99	316316	12.5	13.3	
119 n-Butylbenzene	92	13.206	13.206	0.000	98	2083822	12.5	12.1	
120 1,2-Dichlorobenzene	146	13.237	13.237	0.000	97	1781585	12.5	11.2	
118 p-Diethylbenzene	119	13.261	13.261	0.000	87	1987517	12.5	11.5	
123 1,2-Dibromo-3-Chloropropane	155	13.792	13.792	0.000	83	105241	12.5	12.0	
124 1,3,5-Trichlorobenzene	180	13.914	13.914	0.000	97	1550502	12.5	11.2	
125 1,2,4-Trichlorobenzene	180	14.340	14.340	0.000	94	1361189	12.5	10.9	
126 Hexachlorobutadiene	225	14.426	14.426	0.000	98	658040	12.5	11.1	
127 Naphthalene	128	14.523	14.523	0.000	97	2420816	12.5	10.8	
128 1,2,3-Trichlorobenzene	180	14.670	14.670	0.000	95	1118781	12.5	10.1	
129 2-Methylnaphthalene	142	15.291	15.291	0.000	92	1213480	12.5	7.79	
225 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00004	Amount Added: 25.00	Units: uL	
MSV_LL_#2_826_00007	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00011	Amount Added: 25.00	Units: uL	
MSV_HP25_ISSS_00029	Amount Added: 1.00	Units: uL	Run Reagent

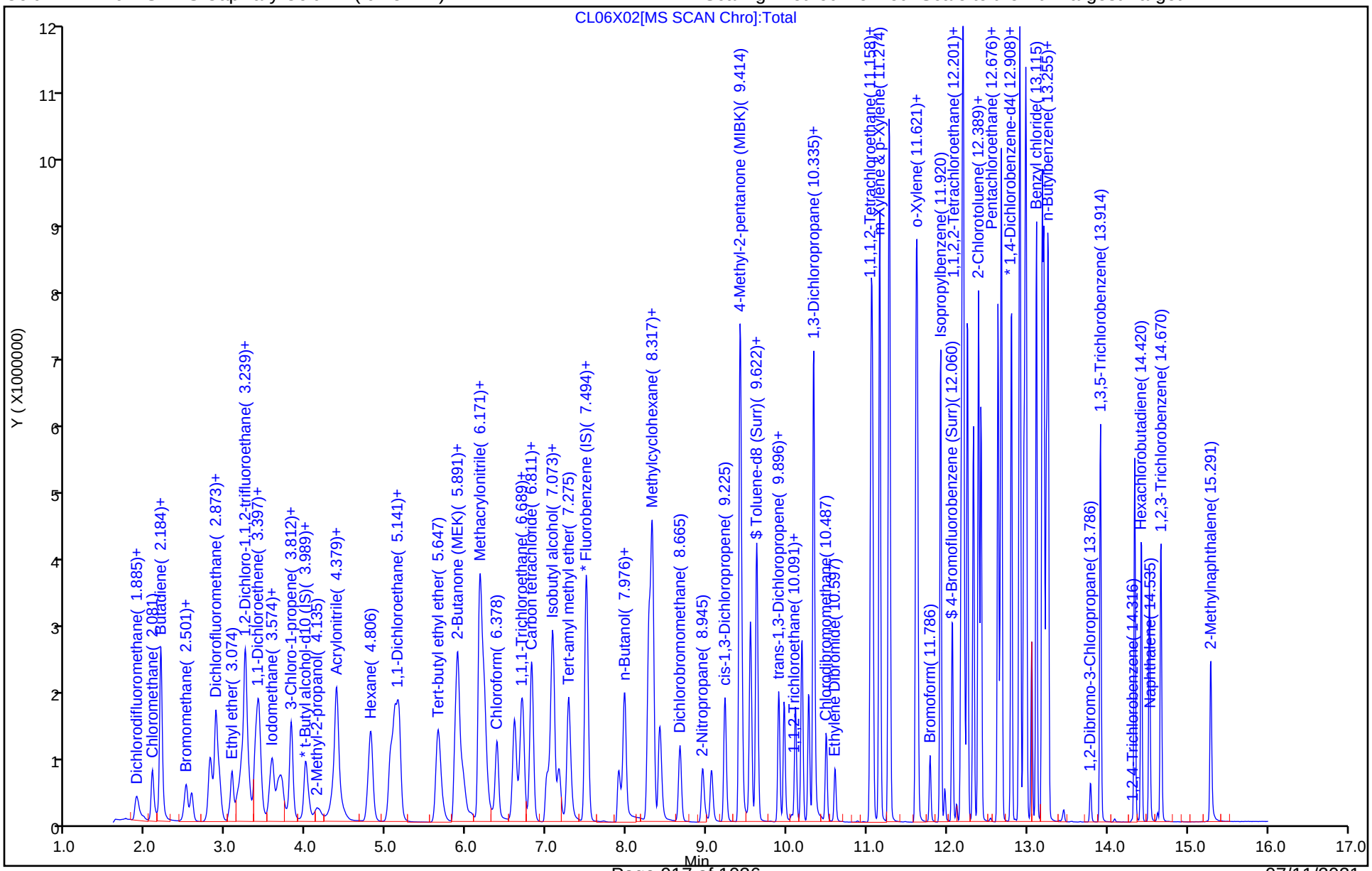
Report Date: 06-Jul-2021 14:18:18 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X02.D

Injection Date:	06-Jul-2021 10:14:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	CCVIS VSTD12.5			Worklist Smp#:	3
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

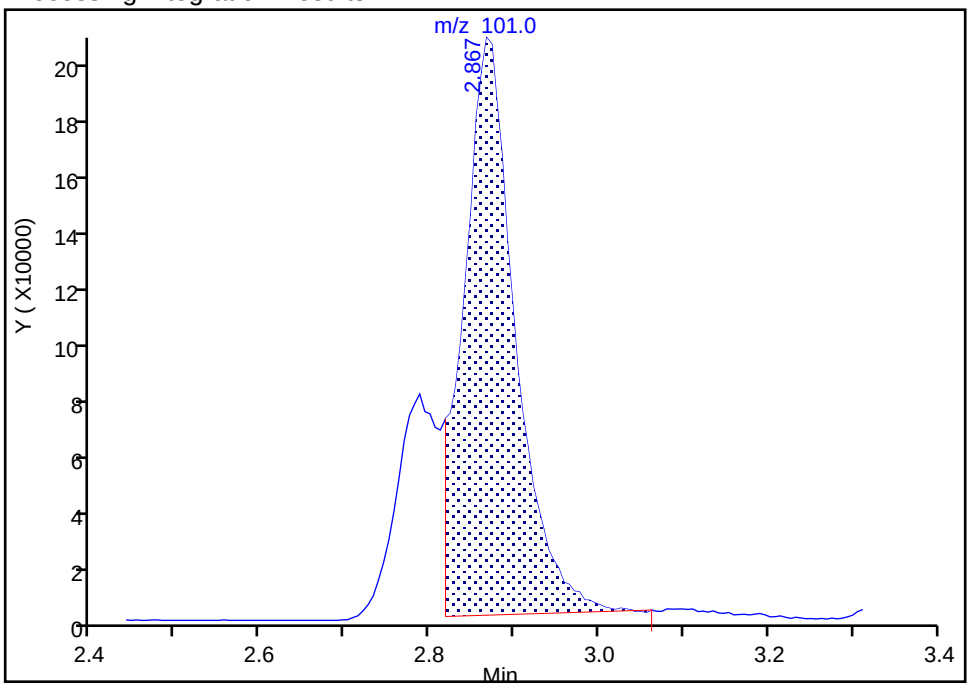
Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X02.D				
Injection Date:	06-Jul-2021 10:14:30	Instrument ID:	10193		
Lims ID:	CCVIS VSTD12.5				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

9 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

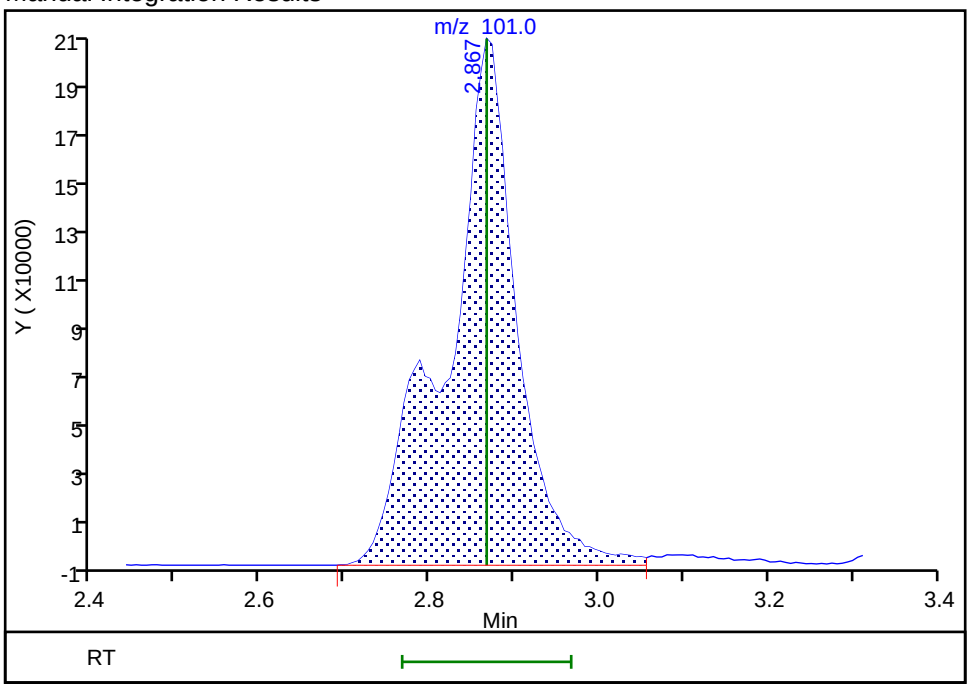
Processing Integration Results

RT: 2.87
Area: 864041
Amount: 9.583508
Amount Units: ug/l



Manual Integration Results

RT: 2.87
Area: 1171254
Amount: 12.990960
Amount Units: ug/l



Reviewer: knouses, 06-Jul-2021 10:43:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

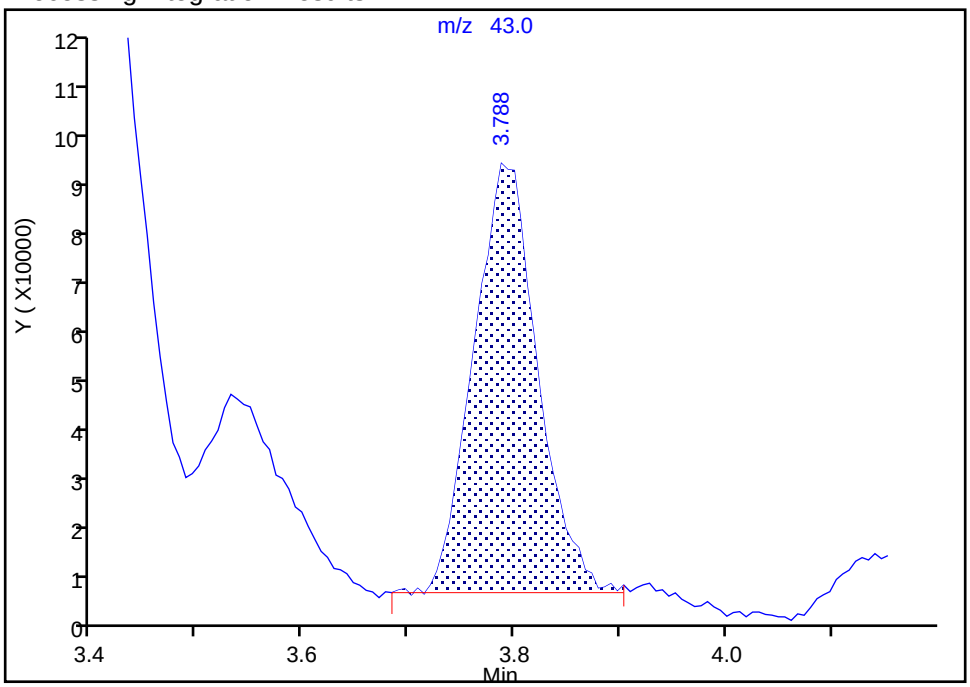
Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X02.D				
Injection Date:	06-Jul-2021 10:14:30	Instrument ID:	10193		
Lims ID:	CCVIS VSTD12.5				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

22 Methyl acetate, CAS: 79-20-9

Signal: 1

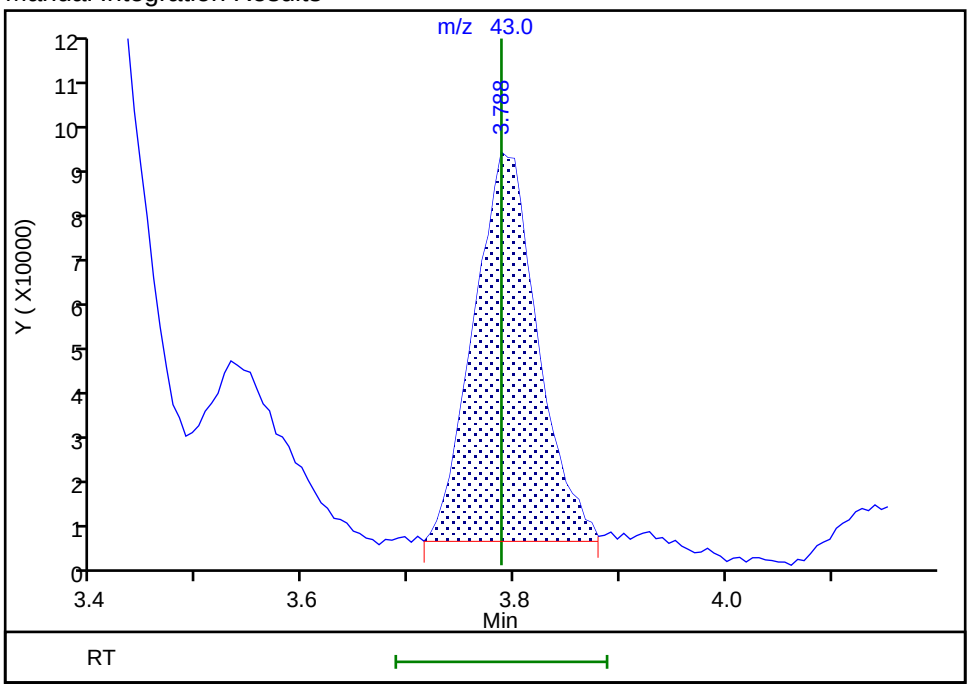
Processing Integration Results

RT: 3.79
Area: 331284
Amount: 19.576944
Amount Units: ug/l



Manual Integration Results

RT: 3.79
Area: 331595
Amount: 19.595322
Amount Units: ug/l



Reviewer: knouses, 06-Jul-2021 11:20:26

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

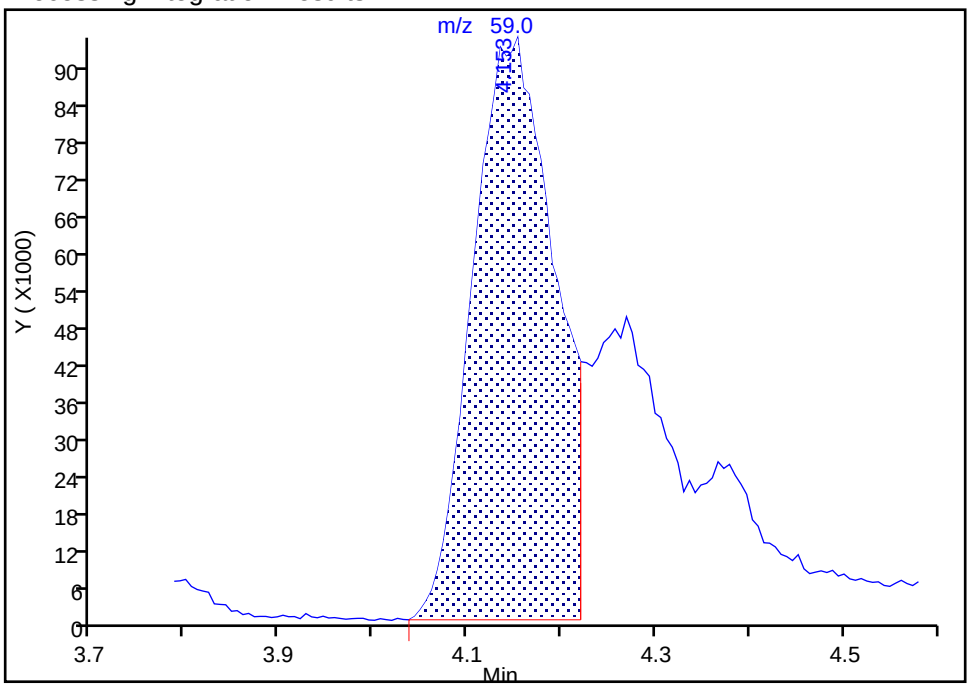
Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X02.D				
Injection Date:	06-Jul-2021 10:14:30	Instrument ID:	10193		
Lims ID:	CCVIS VSTD12.5				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

26 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

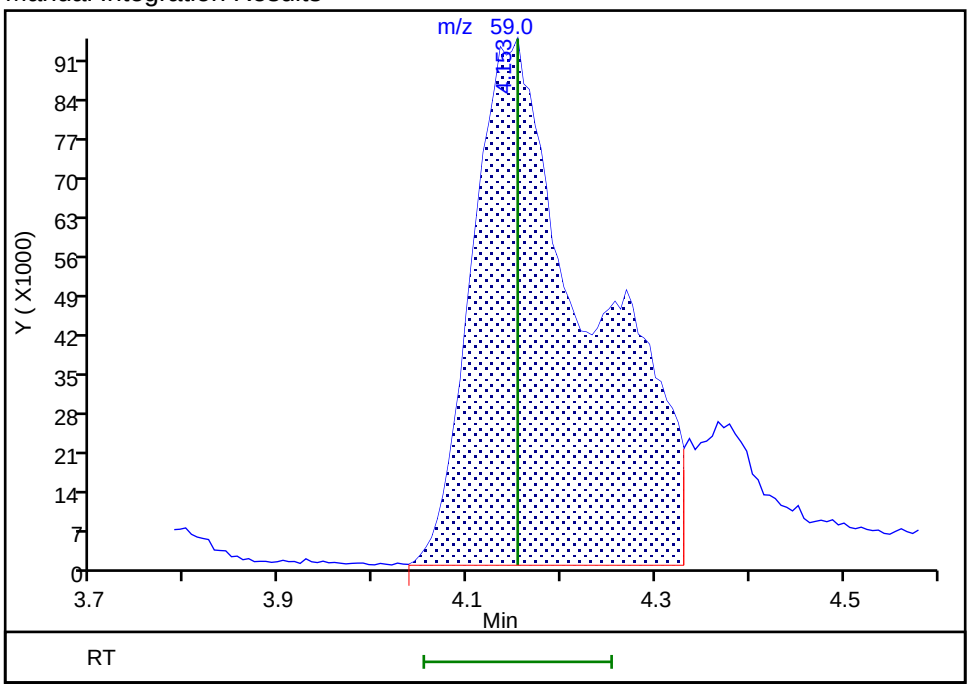
Processing Integration Results

RT: 4.15
Area: 570850
Amount: 191.0948
Amount Units: ug/l



Manual Integration Results

RT: 4.15
Area: 826514
Amount: 276.6795
Amount Units: ug/l



Reviewer: knouses, 06-Jul-2021 10:43:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45147-1

SDG No.:

Lab Sample ID: ICV 410-143886/21 Calibration Date: 06/30/2021 21:12

Instrument ID: 19094 Calib Start Date: 06/30/2021 18:47

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 06/30/2021 20:52

Lab File ID: HU30V11.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	0.2837	0.3114	0.1000	5.49	5.00	9.8	30.0
Chloromethane	Ave	0.3433	0.3566	0.1000	5.19	5.00	3.9	30.0
1,3-Butadiene	Ave	0.3174	0.3041		4.79	5.00	-4.2	30.0
Vinyl chloride	Ave	0.3468	0.3520	0.1000	5.07	5.00	1.5	30.0
Bromomethane	Ave	0.2566	0.2553	0.1000	4.97	5.00	-0.5	30.0
Chloroethane	Ave	0.2243	0.2205	0.1000	4.92	5.00	-1.7	30.0
Dichlorofluoromethane	Ave	0.5169	0.5200		5.03	5.00	0.6	30.0
Trichlorofluoromethane	Ave	0.4564	0.4450	0.1000	4.88	5.00	-2.5	30.0
Ethyl ether	Ave	0.1973	0.1802		4.59	5.02	-8.7	30.0
Freon 123a	Ave	0.3642	0.3518		4.83	5.00	-3.4	30.0
Acrolein	Ave	2.903	2.760		35.7	37.5	-4.9	30.0
1,1-Dichloroethene	Ave	0.2646	0.2490	0.1000	4.71	5.00	-5.9	30.0
Acetone	Ave	3.671	3.079	0.1000	52.4	62.5	-16.1	30.0
Freon 113	Ave	0.2813	0.2583	0.1000	4.59	5.00	-8.2	30.0
Methyl iodide	Ave	0.4647	0.4257		4.58	5.00	-8.4	30.0
Ethyl bromide	Ave	0.2229	0.2232		5.07	5.07	0.1	30.0
Carbon disulfide	Ave	0.7952	0.6990	0.1000	4.40	5.00	-12.1	30.0
Methyl acetate	Ave	10.92	10.19	0.1000	4.67	5.00	-6.7	30.0
Allyl chloride	Ave	0.4671	0.4380		4.69	5.00	-6.2	30.0
Methylene Chloride	Ave	0.2775	0.2644	0.1000	4.77	5.00	-4.7	30.0
t-Butyl alcohol	Ave	1.143	1.040		45.5	50.0	-9.0	30.0
Acrylonitrile	Ave	4.791	4.839		25.3	25.0	1.0	30.0
Methyl tert-butyl ether	Ave	0.6271	0.5848	0.1000	4.66	5.00	-6.7	30.0
trans-1,2-Dichloroethene	Ave	0.2856	0.2651	0.1000	4.64	5.00	-7.2	30.0
n-Hexane	Ave	0.4574	0.3921		4.29	5.00	-14.3	30.0
1,1-Dichloroethane	Ave	0.5245	0.4965	0.2000	4.73	5.00	-5.3	30.0
di-Isopropyl ether	Ave	0.9168	0.8790		4.79	5.00	-4.1	30.0
2-Chloro-1,3-butadiene	Ave	0.4430	0.4303		4.86	5.00	-2.9	30.0
Ethyl t-butyl ether	Ave	0.7970	0.7769		4.87	5.00	-2.5	30.0
2-Butanone (MEK)	Ave	6.141	6.083	0.1000	61.9	62.5	-0.9	30.0
cis-1,2-Dichloroethene	Ave	0.3153	0.3022	0.1000	4.79	5.00	-4.1	30.0
2,2-Dichloropropane	Ave	0.4281	0.4144		4.84	5.00	-3.2	30.0
Propionitrile	Ave	1.742	1.598		34.4	37.5	-8.2	30.0
Methacrylonitrile	Ave	6.410	6.364		37.2	37.5	-0.7	30.0
Bromochloromethane	Ave	0.1262	0.1250		4.95	5.00	-0.9	30.0
Tetrahydrofuran	Ave	1.703	1.675		24.6	25.0	-1.6	30.0
Chloroform	Ave	0.4930	0.4819	0.2000	4.89	5.00	-2.3	30.0
1,1,1-Trichloroethane	Ave	0.4529	0.4319	0.1000	4.77	5.00	-4.6	30.0
Cyclohexane	Ave	0.5697	0.5094	0.1000	4.47	5.00	-10.6	30.0
1,1-Dichloropropene	Ave	0.4167	0.3975		4.77	5.00	-4.6	30.0
Carbon tetrachloride	Ave	0.3911	0.3763	0.1000	4.81	5.00	-3.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45147-1

SDG No.:

Lab Sample ID: ICV 410-143886/21 Calibration Date: 06/30/2021 21:12

Instrument ID: 19094 Calib Start Date: 06/30/2021 18:47

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 06/30/2021 20:52

Lab File ID: HU30V11.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	0.4336	0.3690		106	125	-14.9	30.0
Benzene	Ave	1.197	1.157	0.5000	4.83	5.00	-3.4	30.0
1,2-Dichloroethane	Ave	0.2925	0.2771	0.1000	4.74	5.00	-5.3	30.0
t-Amyl methyl ether	Ave	0.7012	0.6733		4.80	5.00	-4.0	30.0
n-Heptane	Ave	0.4989	0.4221		4.23	5.00	-15.4	30.0
n-Butanol	Ave	0.3797	0.3525		232	250	-7.2	30.0
Trichloroethene	Ave	0.3083	0.2946	0.2000	4.78	5.00	-4.4	30.0
Methylcyclohexane	Ave	0.5828	0.5319	0.1000	4.56	5.00	-8.7	30.0
1,2-Dichloropropane	Ave	0.3097	0.3039	0.1000	4.91	5.00	-1.9	30.0
Methyl methacrylate	Ave	11.80	11.60		4.91	5.00	-1.8	30.0
1,4-Dioxane	Ave	0.0773	0.0701	0.0050	113	125	-9.3	30.0
Dibromomethane	Ave	0.1328	0.1308		4.92	5.00	-1.6	30.0
Bromodichloromethane	Ave	0.3464	0.3447	0.2000	4.98	5.00	-0.5	30.0
2-Nitropropane	Ave	3.120	2.932		4.70	5.00	-6.0	30.0
1-Bromo-2-chloroethane	Ave	0.3010	0.2919		4.85	5.00	-3.0	30.0
cis-1,3-Dichloropropene	Ave	0.4483	0.4383	0.2000	4.89	5.00	-2.2	30.0
4-Methyl-2-pentanone (MIBK)	Ave	15.37	15.27	0.1000	62.1	62.5	-0.7	30.0
Toluene	Ave	1.025	0.9828	0.4000	4.79	5.00	-4.1	30.0
trans-1,3-Dichloropropene	Ave	0.4800	0.4810	0.1000	5.01	5.00	0.2	30.0
Ethyl methacrylate	Ave	0.3671	0.3657		4.98	5.00	-0.4	30.0
1,1,2-Trichloroethane	Ave	0.2614	0.2579	0.1000	4.93	5.00	-1.4	30.0
Tetrachloroethene	Ave	0.4446	0.4308	0.2000	4.85	5.00	-3.1	30.0
1,3-Dichloropropane	Ave	0.4542	0.4494		4.95	5.00	-1.1	30.0
2-Hexanone	Ave	10.51	10.68	0.1000	63.5	62.5	1.5	30.0
Dibromochloromethane	Ave	0.3246	0.3140		4.84	5.00	-3.3	30.0
1,2-Dibromoethane (EDB)	Ave	0.2520	0.2420	0.1000	4.80	5.00	-4.0	30.0
1-Chlorohexane	Ave	0.6228	0.5622		4.51	5.00	-9.7	30.0
Chlorobenzene	Ave	1.087	1.046	0.5000	4.81	5.00	-3.7	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3710	0.3649		4.92	5.00	-1.6	30.0
Ethylbenzene	Ave	1.935	1.882	0.1000	4.86	5.00	-2.7	30.0
m&p-Xylene	Ave	0.7396	0.7317	0.1000	9.89	10.0	-1.1	30.0
o-Xylene	Ave	0.7323	0.7137	0.3000	4.87	5.00	-2.5	30.0
Styrene	Ave	1.173	1.158	0.3000	4.94	5.00	-1.2	30.0
Bromoform	Ave	0.1795	0.1764	0.1000	4.91	5.00	-1.7	30.0
Isopropylbenzene	Ave	1.889	1.869	0.1000	4.95	5.00	-1.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6058	0.5934	0.3000	4.90	5.00	-2.0	30.0
Bromobenzene	Ave	0.7688	0.7682		5.00	5.00	-0.0	30.0
trans-1,4-Dichloro-2-butene	Ave	5.397	5.424		25.1	25.0	0.5	30.0
1,2,3-Trichloropropane	Ave	0.1547	0.1439		4.65	5.00	-7.0	30.0
N-Propylbenzene	Ave	4.237	4.106		4.85	5.00	-3.1	30.0
2-Chlorotoluene	Ave	0.8283	0.7971		4.81	5.00	-3.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45147-1

SDG No.:

Lab Sample ID: ICV 410-143886/21 Calibration Date: 06/30/2021 21:12

Instrument ID: 19094 Calib Start Date: 06/30/2021 18:47

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 06/30/2021 20:52

Lab File ID: HU30V11.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	2.965	2.862		4.83	5.00	-3.5	30.0
4-Chlorotoluene	Ave	0.8359	0.8124		4.86	5.00	-2.8	30.0
tert-Butylbenzene	Ave	0.6453	0.6119		4.74	5.00	-5.2	30.0
Pentachloroethane	Ave	0.4788	0.4587		4.79	5.00	-4.2	30.0
1,2,4-Trimethylbenzene	Ave	3.024	2.920		4.83	5.00	-3.4	30.0
sec-Butylbenzene	Ave	3.745	3.674		4.91	5.00	-1.9	30.0
1,3-Dichlorobenzene	Ave	1.584	1.511	0.6000	4.77	5.00	-4.6	30.0
p-Isopropyltoluene	Ave	3.168	3.063		4.83	5.00	-3.3	30.0
1,4-Dichlorobenzene	Ave	1.562	1.514	0.5000	4.85	5.00	-3.1	30.0
1,2,3-Trimethylbenzene	Ave	1.345	1.287		4.78	5.00	-4.4	30.0
Benzyl chloride	Ave	0.2484	0.2430		4.89	5.00	-2.2	30.0
n-Butylbenzene	Ave	1.595	1.508		4.73	5.00	-5.5	30.0
1,2-Dichlorobenzene	Ave	1.436	1.417	0.4000	4.93	5.00	-1.3	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0871	0.0768	0.0500	4.41	5.00	-11.8	30.0
1,3,5-Trichlorobenzene	Ave	1.144	1.095		4.79	5.00	-4.3	30.0
1,2,4-Trichlorobenzene	Ave	0.9687	0.9247	0.2000	4.77	5.00	-4.5	30.0
Hexachlorobutadiene	Ave	0.4439	0.4011		4.52	5.00	-9.6	30.0
Naphthalene	Ave	1.870	1.813		4.85	5.00	-3.0	30.0
1,2,3-Trichlorobenzene	Ave	0.8409	0.8186		4.87	5.00	-2.7	30.0
Dibromofluoromethane (Surr)	Ave	0.2419	0.2441		10.1	10.0	0.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0489	0.0490		10.0	10.0	0.2	30.0
Toluene-d8 (Surr)	Ave	1.344	1.347		10.0	10.0	0.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4904	0.4894		9.98	10.0	-0.2	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30V11.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 30-Jun-2021 21:12:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033290-021
Misc. Info.: ICV
Operator ID: jml01693 Instrument ID: 19094
Sublist:

Method: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Jul-2021 01:11:13 Calib Date: 30-Jun-2021 20:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: campbellme Date: 01-Jul-2021 01:04:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	2.008	2.007	0.000	99	359052	5.00	5.49	
6 Chloromethane	50	2.203	2.196	0.007	99	411130	5.00	5.19	
8 Butadiene	39	2.312	2.312	0.000	91	350580	5.00	4.79	
7 Vinyl chloride	62	2.325	2.324	0.000	83	405827	5.00	5.07	
9 Bromomethane	94	2.642	2.635	0.007	90	294351	5.00	4.97	
10 Chloroethane	64	2.733	2.721	0.012	100	254197	5.00	4.92	
11 Dichlorofluoromethane	67	2.977	2.971	0.006	97	599542	5.00	5.03	
13 Trichlorofluoromethane	101	3.044	3.044	0.000	96	513047	5.00	4.88	
15 Ethyl ether	59	3.282	3.282	0.000	92	208662	5.02	4.59	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.379	3.373	0.006	94	405587	5.00	4.83	
17 Acrolein	56	3.452	3.458	-0.006	91	251355	37.5	35.7	M
18 1,1-Dichloroethene	96	3.599	3.605	-0.006	98	287064	5.00	4.71	
19 Acetone	43	3.617	3.611	0.006	98	467179	62.5	52.4	M
20 112TCTFE	101	3.641	3.635	0.006	94	297767	5.00	4.59	
21 Isopropyl alcohol	45	3.757	3.769	-0.012	61	60381	37.5	33.6	M
22 Iodomethane	142	3.806	3.806	0.000	99	490757	5.00	4.58	
23 Ethyl bromide	108	3.824	3.824	0.000	98	260824	5.07	5.07	
24 Carbon disulfide	76	3.922	3.916	0.006	99	805854	5.00	4.40	
26 Methyl acetate	43	4.056	4.056	0.000	98	123705	5.00	4.67	
27 3-Chloro-1-propene	41	4.080	4.080	0.000	95	504945	5.00	4.69	
29 Methylene Chloride	84	4.269	4.263	0.006	93	304885	5.00	4.77	
* 28 t-Butyl alcohol-d10 (IS)	65	4.251	4.269	-0.018	40	121400	50.0	50.0	
30 2-Methyl-2-propanol	59	4.391	4.385	0.006	98	126253	50.0	45.5	
31 Acrylonitrile	53	4.605	4.617	-0.012	99	293737	25.0	25.3	
32 Methyl tert-butyl ether	73	4.672	4.665	0.007	94	674250	5.00	4.66	
33 trans-1,2-Dichloroethene	96	4.690	4.696	-0.006	99	305670	5.00	4.64	
34 Hexane	57	5.111	5.117	-0.006	91	452082	5.00	4.29	
35 1,1-Dichloroethane	63	5.348	5.348	0.000	96	572457	5.00	4.73	
37 Isopropyl ether	45	5.403	5.397	0.006	96	1013382	5.00	4.79	
38 2-Chloro-1,3-butadiene	53	5.458	5.458	0.000	89	496049	5.00	4.86	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.934	5.934	0.000	98	895698	5.00	4.87	
41 2-Butanone (MEK)	43	6.135	6.135	0.000	100	923110	62.5	61.9	
42 cis-1,2-Dichloroethene	96	6.177	6.183	-0.006	81	348405	5.00	4.79	
43 2,2-Dichloropropane	77	6.202	6.190	0.012	86	477789	5.00	4.84	
45 Propionitrile	54	6.226	6.214	0.012	98	145531	37.5	34.4	
47 Methacrylonitrile	67	6.440	6.440	0.000	91	579426	37.5	37.2	
48 Chlorobromomethane	128	6.507	6.507	0.000	96	144130	5.00	4.95	
49 Tetrahydrofuran	71	6.525	6.531	-0.006	78	101671	25.0	24.6	
50 Chloroform	83	6.659	6.659	0.000	93	555545	5.00	4.89	
$ 51 Dibromofluoromethane (Surr)	113	6.872	6.872	0.000	93	562931	10.0	10.1	
52 1,1,1-Trichloroethane	97	6.897	6.891	0.006	98	497935	5.00	4.77	
53 Cyclohexane	56	6.994	6.994	0.000	91	587310	5.00	4.47	
55 1,1-Dichloropropene	75	7.104	7.104	0.000	97	458325	5.00	4.77	
56 Carbon tetrachloride	117	7.110	7.110	0.000	83	433860	5.00	4.81	
57 Isobutyl alcohol	41	7.238	7.232	0.006	95	112000	125.0	106.4	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.336	7.330	0.006	96	112900	10.0	10.0	
59 Benzene	78	7.366	7.366	0.000	96	1333469	5.00	4.83	
60 1,2-Dichloroethane	62	7.439	7.439	0.000	97	319484	5.00	4.74	
62 Tert-amyl methyl ether	73	7.555	7.555	0.000	99	776244	5.00	4.80	
* 65 Fluorobenzene (IS)	96	7.769	7.769	0.000	99	2305813	10.0	10.0	
64 n-Heptane	43	7.781	7.781	0.000	91	486601	5.00	4.23	
66 n-Butanol	56	8.122	8.122	0.000	87	213986	250.0	232.1	
67 Trichloroethene	95	8.250	8.250	0.000	99	339619	5.00	4.78	
68 Methylcyclohexane	83	8.567	8.567	0.000	93	613252	5.00	4.56	
70 1,2-Dichloropropane	63	8.592	8.585	0.007	82	350313	5.00	4.91	
69 2-ethoxy-2-methyl butane	87	8.592	8.592	0.000	90	439610	5.00	4.88	
71 Methyl methacrylate	69	8.665	8.665	0.000	91	140799	5.00	4.91	
72 1,4-Dioxane	88	8.671	8.671	0.000	32	21263	125.0	113.3	M
73 Dibromomethane	93	8.695	8.689	0.006	97	150752	5.00	4.92	
75 Dichlorobromomethane	83	8.933	8.927	0.006	100	397393	5.00	4.98	
76 2-Nitropropane	41	9.195	9.195	0.000	98	35599	5.00	4.70	
79 1-Bromo-2-chloroethane	63	9.323	9.323	0.000	98	336591	5.00	4.85	
80 cis-1,3-Dichloropropene	75	9.476	9.476	0.000	97	505366	5.00	4.89	
81 4-Methyl-2-pentanone (MIBK)	43	9.640	9.640	0.000	96	2317450	62.5	62.1	
$ 82 Toluene-d8 (Surr)	98	9.780	9.780	0.000	93	2309193	10.0	10.0	
83 Toluene	92	9.860	9.860	0.000	98	842584	5.00	4.79	
85 trans-1,3-Dichloropropene	75	10.110	10.110	0.000	91	412391	5.00	5.01	
86 Ethyl methacrylate	69	10.171	10.170	0.001	88	313549	5.00	4.98	
87 1,1,2-Trichloroethane	97	10.317	10.317	0.000	89	221072	5.00	4.93	
88 Tetrachloroethene	166	10.408	10.408	0.000	97	369390	5.00	4.85	
89 1,3-Dichloropropane	76	10.475	10.475	0.000	88	385305	5.00	4.95	
91 2-Hexanone	43	10.524	10.524	0.000	96	1620119	62.5	63.5	
93 Chlorodibromomethane	129	10.695	10.695	0.000	90	269226	5.00	4.84	
94 Ethylene Dibromide	107	10.805	10.805	0.001	98	207441	5.00	4.80	
* 97 Chlorobenzene-d5 (IS)	117	11.237	11.237	0.000	86	1714728	10.0	10.0	
96 1-Chlorohexane	91	11.244	11.243	0.001	98	482046	5.00	4.51	
98 Chlorobenzene	112	11.262	11.262	0.000	95	897096	5.00	4.81	
99 1,1,1,2-Tetrachloroethane	131	11.347	11.347	0.000	98	312867	5.00	4.92	
100 Ethylbenzene	91	11.347	11.347	0.000	98	1613525	5.00	4.86	
101 m-Xylene & p-Xylene	106	11.463	11.463	0.000	98	1254625	10.0	9.89	
102 o-Xylene	106	11.792	11.792	0.000	96	611943	5.00	4.87	
103 Styrene	104	11.804	11.804	0.000	95	993168	5.00	4.94	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 Bromoform	173	11.963	11.963	0.000	97	151214	5.00	4.91	
105 Isopropylbenzene	105	12.091	12.091	0.000	96	1602753	5.00	4.95	
$ 108 4-Bromofluorobenzene (Surr)	95	12.237	12.237	0.000	90	839149	10.0	9.98	
109 1,1,2,2-Tetrachloroethane	83	12.335	12.335	0.000	93	271610	5.00	4.90	
111 Bromobenzene	156	12.353	12.353	0.000	95	351616	5.00	5.00	
110 trans-1,4-Dichloro-2-butene	53	12.359	12.359	0.000	87	329240	25.0	25.1	
112 1,2,3-Trichloropropane	110	12.384	12.383	0.001	83	65871	5.00	4.65	
113 N-Propylbenzene	91	12.420	12.420	0.000	99	1879287	5.00	4.85	
114 2-Chlorotoluene	126	12.493	12.493	0.000	97	364832	5.00	4.81	
115 1,3,5-Trimethylbenzene	105	12.554	12.554	0.000	94	1309762	5.00	4.83	
116 4-Chlorotoluene	126	12.585	12.585	0.000	98	371850	5.00	4.86	
118 tert-Butylbenzene	134	12.798	12.798	0.000	93	280078	5.00	4.74	
119 Pentachloroethane	167	12.829	12.829	0.001	89	209949	5.00	4.79	
120 1,2,4-Trimethylbenzene	105	12.835	12.835	0.000	96	1336662	5.00	4.83	
121 sec-Butylbenzene	105	12.957	12.957	0.000	94	1681762	5.00	4.91	
122 1,3-Dichlorobenzene	146	13.060	13.060	0.000	97	691550	5.00	4.77	
123 4-Isopropyltoluene	119	13.066	13.066	0.000	97	1402179	5.00	4.83	
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	94	915426	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.133	13.133	0.000	95	692899	5.00	4.85	
126 1,2,3-Trimethylbenzene	120	13.139	13.139	0.000	98	588877	5.00	4.78	
127 Benzyl chloride	126	13.207	13.206	0.001	98	111203	5.00	4.89	
130 n-Butylbenzene	92	13.359	13.359	0.000	97	690293	5.00	4.73	
131 1,2-Dichlorobenzene	146	13.396	13.395	0.001	98	648601	5.00	4.93	
129 p-Diethylbenzene	119	13.408	13.408	0.000	87	698983	5.00	4.76	
134 1,2-Dibromo-3-Chloropropane	155	13.938	13.932	0.006	87	35151	5.00	4.41	
135 1,3,5-Trichlorobenzene	180	14.060	14.060	0.000	97	501268	5.00	4.79	
136 1,2,4-Trichlorobenzene	180	14.487	14.481	0.006	94	423267	5.00	4.77	
137 Hexachlorobutadiene	225	14.566	14.566	0.000	97	183611	5.00	4.52	
138 Naphthalene	128	14.664	14.664	0.000	97	830032	5.00	4.85	
139 1,2,3-Trichlorobenzene	180	14.810	14.810	0.000	96	374695	5.00	4.87	
140 2-Methylnaphthalene	142	15.444	15.444	0.000	92	446552	5.00	4.50	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00007	Amount Added:	12.50	Units: uL	
MSV_LCS_Penta_00004	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00010	Amount Added:	12.50	Units: uL	
MSV_Q_EE_00004	Amount Added:	12.50	Units: uL	
MSV_Q_ETBR_00008	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00009	Amount Added:	12.50	Units: uL	
MSV_LLcentISS_00001	Amount Added:	5.00	Units: uL	Run Reagent

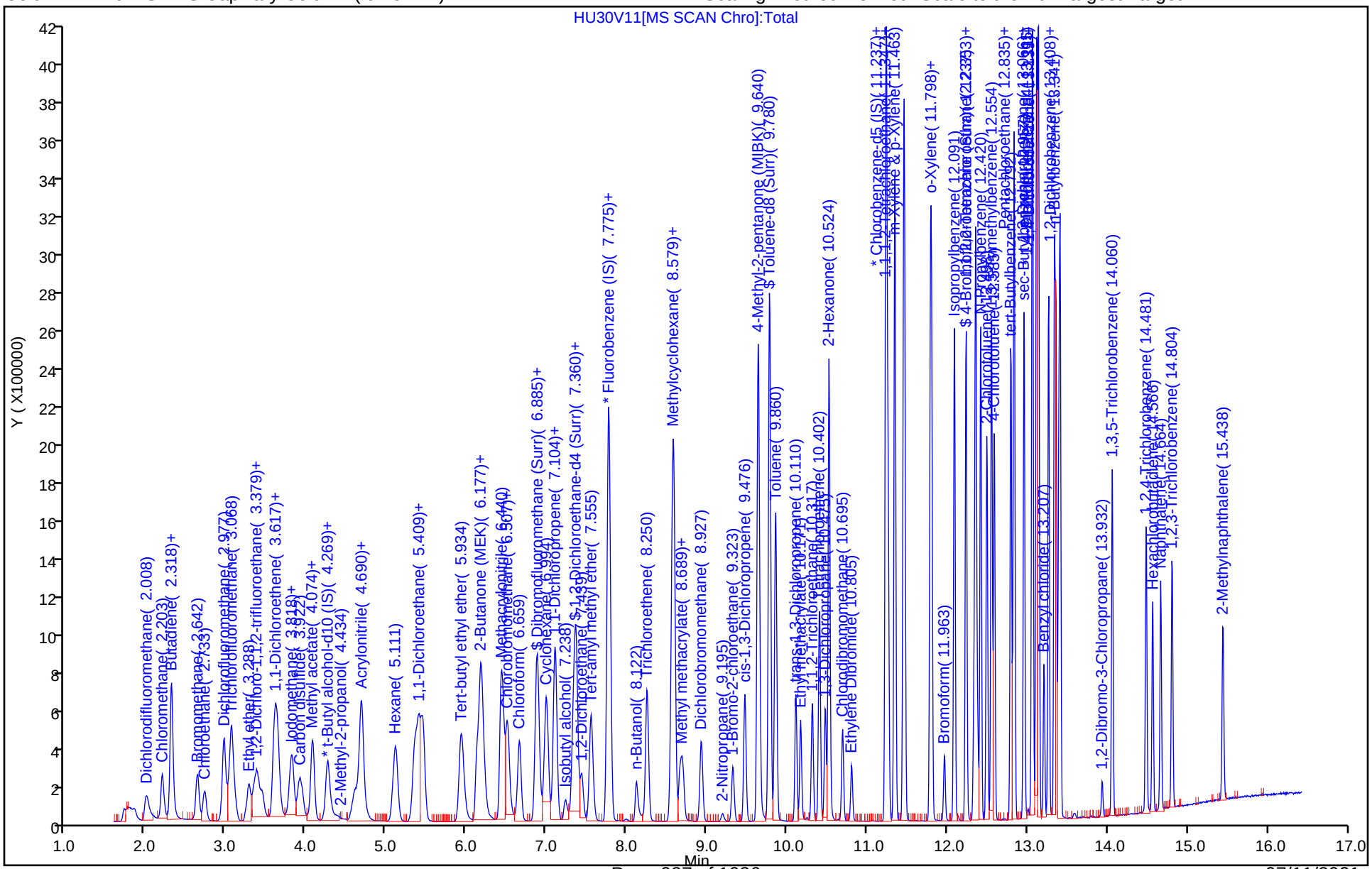
Report Date: 01-Jul-2021 01:11:17 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30V11.D

Injection Date:	30-Jun-2021 21:12:30	Instrument ID:	19094	Operator ID:	jml01693
Lims ID:	ICV			Worklist Smp#:	21
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

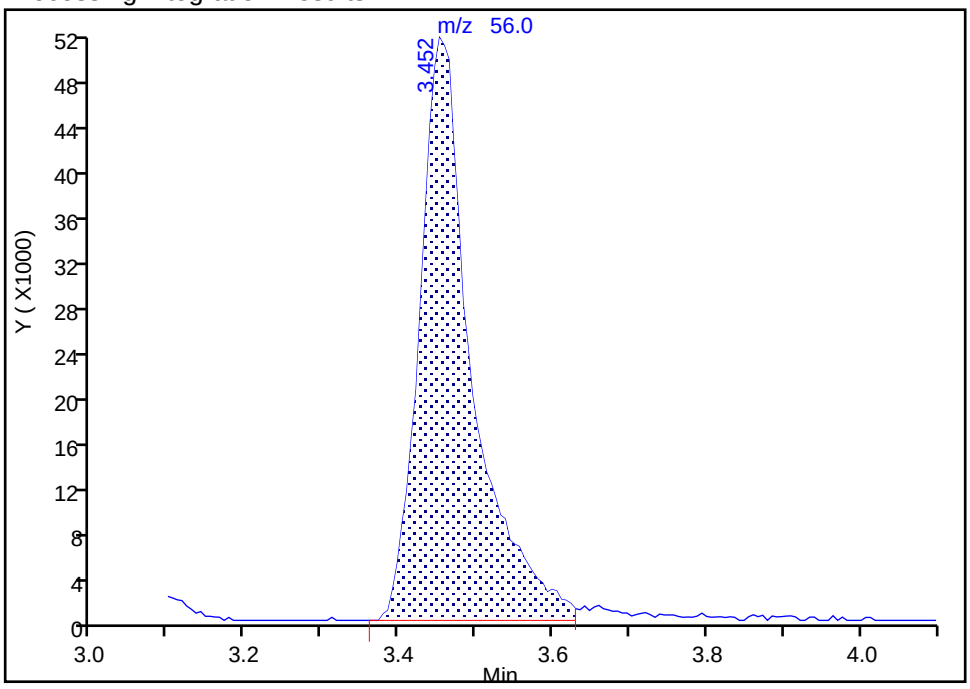
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30V11.D				
Injection Date:	30-Jun-2021 21:12:30	Instrument ID:	19094		
Lims ID:	ICV				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

17 Acrolein, CAS: 107-02-8

Signal: 1

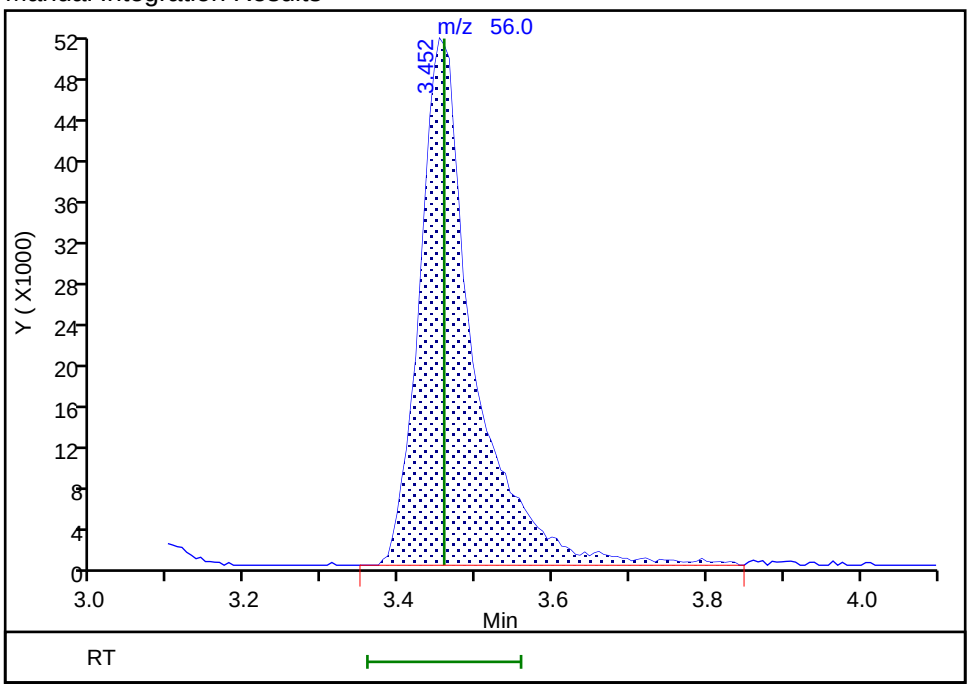
Processing Integration Results

RT: 3.45
Area: 244154
Amount: 34.640723
Amount Units: ug/l



Manual Integration Results

RT: 3.45
Area: 251355
Amount: 35.662406
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 01:02:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

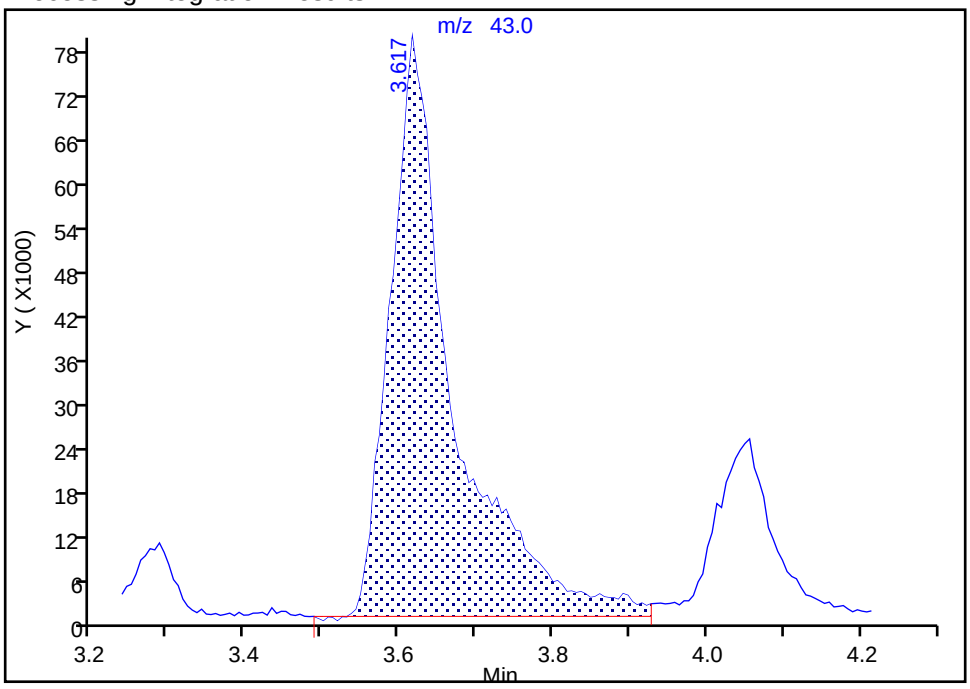
Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30V11.D
Injection Date: 30-Jun-2021 21:12:30 Instrument ID: 19094
Lims ID: ICV
Client ID:
Operator ID: jml01693 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

19 Acetone, CAS: 67-64-1

Signal: 1

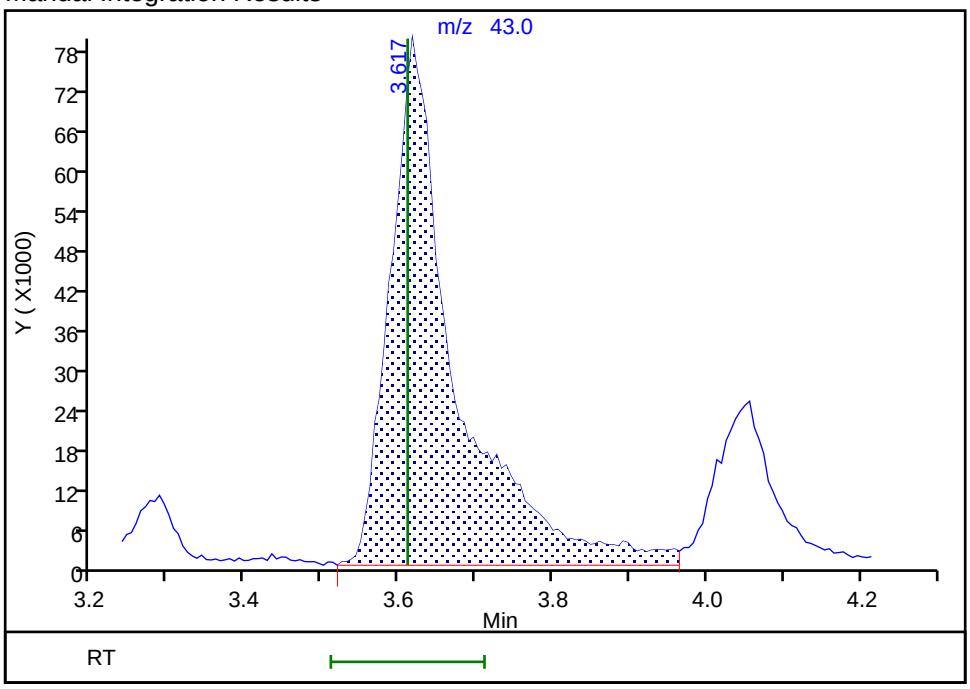
Processing Integration Results

RT: 3.62
Area: 448445
Amount: 50.311254
Amount Units: ug/l



Manual Integration Results

RT: 3.62
Area: 467179
Amount: 52.413030
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 01:03:06
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

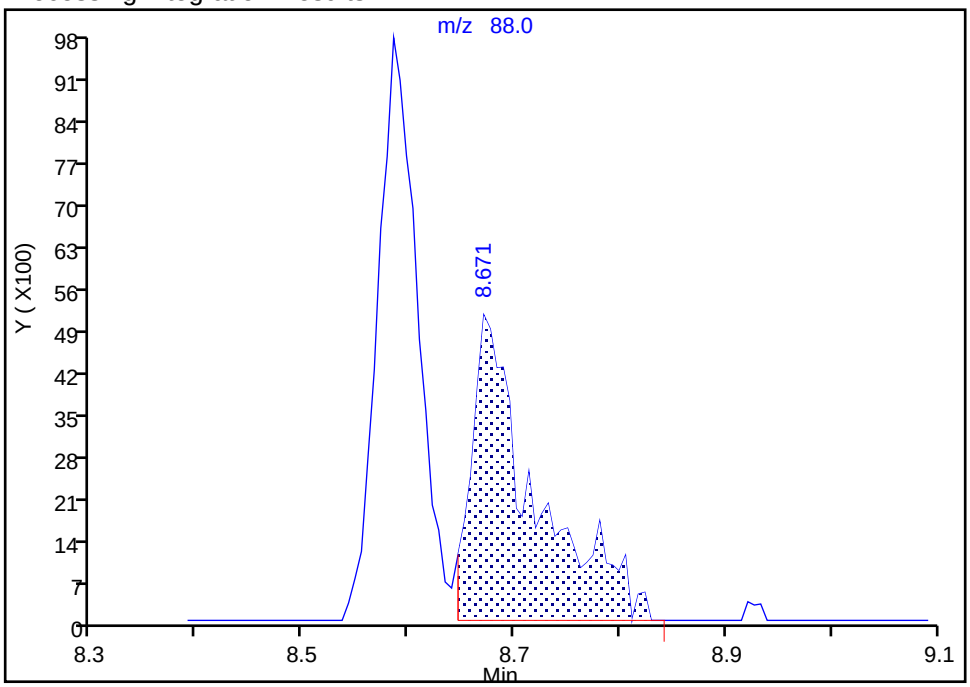
Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30V11.D				
Injection Date:	30-Jun-2021 21:12:30	Instrument ID:	19094		
Lims ID:	ICV				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

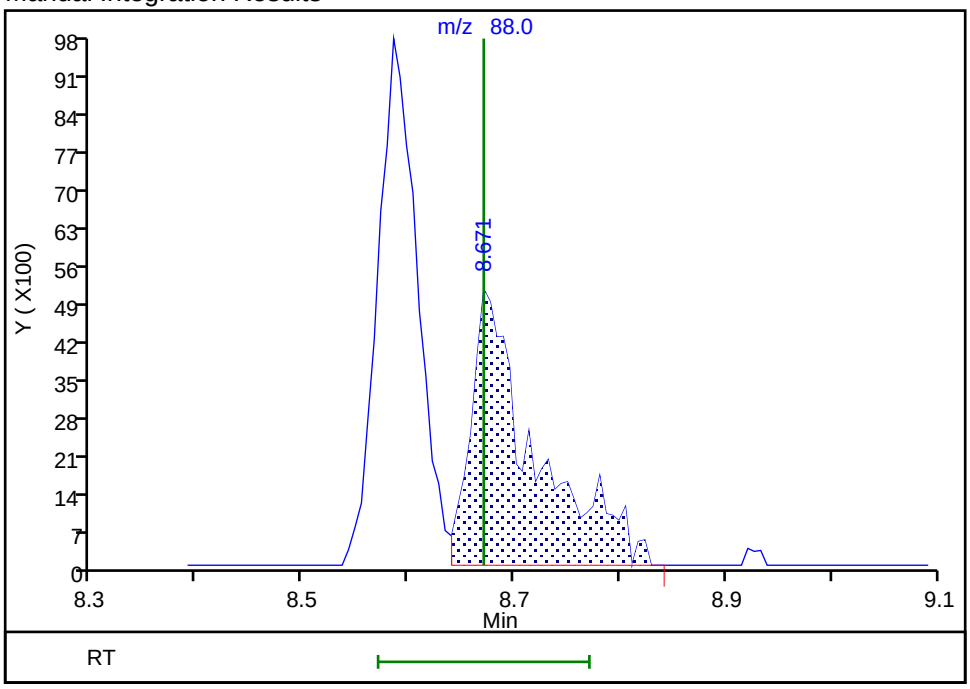
Processing Integration Results

RT: 8.67
Area: 21065
Amount: 112.2853
Amount Units: ug/l



Manual Integration Results

RT: 8.67
Area: 21263
Amount: 113.3407
Amount Units: ug/l



Reviewer: campbellme, 01-Jul-2021 01:03:49

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45147-1

SDG No.:

Lab Sample ID: CCVIS 410-145644/3 Calibration Date: 07/07/2021 09:13

Instrument ID: 19094 Calib Start Date: 06/30/2021 18:47

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 06/30/2021 20:52

Lab File ID: HL07X02.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	0.2837	0.3099	0.1000	13.7	12.5	9.2	20.0
Chloromethane	Ave	0.3433	0.3268	0.1000	11.9	12.5	-4.8	20.0
1,3-Butadiene	Ave	0.3174	0.3044		12.0	12.5	-4.1	20.0
Vinyl chloride	Ave	0.3468	0.3401	0.1000	12.3	12.5	-1.9	20.0
Bromomethane	Ave	0.2566	0.2588	0.1000	12.6	12.5	0.8	20.0
Chloroethane	Ave	0.2243	0.2204	0.1000	12.3	12.5	-1.7	20.0
Dichlorofluoromethane	Ave	0.5169	0.5100		12.3	12.5	-1.3	20.0
Trichlorofluoromethane	Ave	0.4564	0.4776	0.1000	13.1	12.5	4.6	20.0
Ethyl ether	Ave	0.1973	0.1997		12.7	12.5	1.2	20.0
Freon 123a	Ave	0.3642	0.3539		12.1	12.5	-2.8	20.0
Acrolein	Ave	2.903	2.663		573	625	-8.3	20.0
1,1-Dichloroethene	Ave	0.2646	0.2707	0.1000	12.8	12.5	2.3	20.0
Acetone	Ave	3.671	3.165	0.1000	108	125	-13.8	20.0
Freon 113	Ave	0.2813	0.2975	0.1000	13.2	12.5	5.8	20.0
Methyl iodide	Ave	0.4647	0.4972		13.4	12.5	7.0	20.0
Ethyl bromide	Ave	0.2229	0.2313		13.0	12.5	3.7	20.0
Carbon disulfide	Ave	0.7952	0.8008	0.1000	12.6	12.5	0.7	20.0
Methyl acetate	Ave	10.92	10.55	0.1000	12.1	12.5	-3.4	20.0
Allyl chloride	Ave	0.4671	0.4537		12.1	12.5	-2.9	20.0
Methylene Chloride	Ave	0.2775	0.2890	0.1000	13.0	12.5	4.1	20.0
t-Butyl alcohol	Ave	1.143	1.110		243	250	-2.9	20.0
Acrylonitrile	Ave	4.791	4.688		30.6	31.3	-2.2	20.0
Methyl tert-butyl ether	Ave	0.6271	0.6423	0.1000	12.8	12.5	2.4	20.0
trans-1,2-Dichloroethene	Ave	0.2856	0.2936	0.1000	12.9	12.5	2.8	20.0
n-Hexane	Ave	0.4574	0.4701		12.8	12.5	2.8	20.0
1,1-Dichloroethane	Ave	0.5245	0.5350	0.2000	12.8	12.5	2.0	20.0
di-Isopropyl ether	Ave	0.9168	0.9182		12.5	12.5	0.2	20.0
2-Chloro-1,3-butadiene	Ave	0.4430	0.4577		12.9	12.5	3.3	20.0
Ethyl t-butyl ether	Ave	0.7970	0.8131		12.8	12.5	2.0	20.0
2-Butanone (MEK)	Ave	6.141	5.952	0.1000	121	125	-3.1	20.0
cis-1,2-Dichloroethene	Ave	0.3153	0.3218	0.1000	12.8	12.5	2.1	20.0
2,2-Dichloropropane	Ave	0.4281	0.4492		13.1	12.5	4.9	20.0
Propionitrile	Ave	1.742	1.724		247	250	-1.0	20.0
Methacrylonitrile	Ave	6.410	6.275		122	125	-2.1	20.0
Bromochloromethane	Ave	0.1262	0.1384		13.7	12.5	9.7	20.0
Tetrahydrofuran	Ave	1.703	1.678		61.6	62.5	-1.5	20.0
Chloroform	Ave	0.4930	0.5185	0.2000	13.1	12.5	5.2	20.0
1,1,1-Trichloroethane	Ave	0.4529	0.4726	0.1000	13.0	12.5	4.4	20.0
Cyclohexane	Ave	0.5697	0.5716	0.1000	12.5	12.5	0.3	20.0
1,1-Dichloropropene	Ave	0.4167	0.4325		13.0	12.5	3.8	20.0
Carbon tetrachloride	Ave	0.3911	0.4229	0.1000	13.5	12.5	8.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45147-1

SDG No.:

Lab Sample ID: CCVIS 410-145644/3 Calibration Date: 07/07/2021 09:13

Instrument ID: 19094 Calib Start Date: 06/30/2021 18:47

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 06/30/2021 20:52

Lab File ID: HL07X02.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	0.4336	0.3961		571	625	-8.6	20.0
Benzene	Ave	1.197	1.225	0.5000	12.8	12.5	2.3	20.0
1,2-Dichloroethane	Ave	0.2925	0.3072	0.1000	13.1	12.5	5.0	20.0
t-Amyl methyl ether	Ave	0.7012	0.7340		13.1	12.5	4.7	20.0
n-Heptane	Ave	0.4989	0.4846		12.1	12.5	-2.9	20.0
n-Butanol	Ave	0.3797	0.3652		1050	1090	-3.8	20.0
Trichloroethene	Ave	0.3083	0.3266	0.2000	13.2	12.5	6.0	20.0
Methylcyclohexane	Ave	0.5828	0.6049	0.1000	13.0	12.5	3.8	20.0
1,2-Dichloropropane	Ave	0.3097	0.3188	0.1000	12.9	12.5	2.9	20.0
Methyl methacrylate	Ave	11.80	11.77		12.5	12.5	-0.3	20.0
1,4-Dioxane	Ave	0.0773	0.0716	0.0050	579	625	-7.4	20.0
Dibromomethane	Ave	0.1328	0.1463		13.8	12.5	10.1	20.0
Bromodichloromethane	Ave	0.3464	0.3768	0.2000	13.6	12.5	8.8	20.0
2-Nitropropane	Ave	3.120	3.125		62.6	62.5	0.2	20.0
1-Bromo-2-chloroethane	Ave	0.3010	0.3191		13.3	12.5	6.0	20.0
cis-1,3-Dichloropropene	Ave	0.4483	0.4887	0.2000	13.6	12.5	9.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	15.37	15.05	0.1000	122	125	-2.1	20.0
Toluene	Ave	1.025	0.9787	0.4000	11.9	12.5	-4.5	20.0
trans-1,3-Dichloropropene	Ave	0.4800	0.4761	0.1000	12.4	12.5	-0.8	20.0
Ethyl methacrylate	Ave	0.3671	0.3723		12.7	12.5	1.4	20.0
1,1,2-Trichloroethane	Ave	0.2614	0.2618	0.1000	12.5	12.5	0.2	20.0
Tetrachloroethene	Ave	0.4446	0.4518	0.2000	12.7	12.5	1.6	20.0
1,3-Dichloropropane	Ave	0.4542	0.4554		12.5	12.5	0.2	20.0
2-Hexanone	Ave	10.51	10.56	0.1000	126	125	0.4	20.0
Dibromochloromethane	Ave	0.3246	0.3320		12.8	12.5	2.3	20.0
1,2-Dibromoethane (EDB)	Ave	0.2520	0.2551	0.1000	12.7	12.5	1.2	20.0
1-Chlorohexane	Ave	0.6228	0.5864		11.8	12.5	-5.8	20.0
Chlorobenzene	Ave	1.087	1.079	0.5000	12.4	12.5	-0.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3710	0.3685		12.4	12.5	-0.7	20.0
Ethylbenzene	Ave	1.935	1.896	0.1000	12.2	12.5	-2.0	20.0
m&p-Xylene	Ave	0.7396	0.7398	0.1000	25.0	25.0	0.0	20.0
o-Xylene	Ave	0.7323	0.7323	0.3000	12.5	12.5	0.0	20.0
Styrene	Ave	1.173	1.195	0.3000	12.7	12.5	1.9	20.0
Bromoform	Ave	0.1795	0.1941	0.1000	13.5	12.5	8.1	20.0
Isopropylbenzene	Ave	1.889	1.893	0.1000	12.5	12.5	0.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6058	0.5744	0.3000	11.9	12.5	-5.2	20.0
Bromobenzene	Ave	0.7688	0.7831		12.7	12.5	1.9	20.0
trans-1,4-Dichloro-2-butene	Ave	5.397	5.653		131	125	4.7	20.0
1,2,3-Trichloropropane	Ave	0.1547	0.1527		12.3	12.5	-1.3	20.0
N-Propylbenzene	Ave	4.237	4.117		12.1	12.5	-2.8	20.0
2-Chlorotoluene	Ave	0.8283	0.8107		12.2	12.5	-2.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45147-1

SDG No.:

Lab Sample ID: CCVIS 410-145644/3 Calibration Date: 07/07/2021 09:13

Instrument ID: 19094 Calib Start Date: 06/30/2021 18:47

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 06/30/2021 20:52

Lab File ID: HL07X02.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	2.965	2.889		12.2	12.5	-2.6	20.0
4-Chlorotoluene	Ave	0.8359	0.8199		12.3	12.5	-1.9	20.0
tert-Butylbenzene	Ave	0.6453	0.6306		12.2	12.5	-2.3	20.0
Pentachloroethane	Ave	0.4788	0.4910		12.8	12.5	2.6	20.0
1,2,4-Trimethylbenzene	Ave	3.024	2.964		12.3	12.5	-2.0	20.0
sec-Butylbenzene	Ave	3.745	3.700		12.3	12.5	-1.2	20.0
1,3-Dichlorobenzene	Ave	1.584	1.591	0.6000	12.6	12.5	0.4	20.0
p-Isopropyltoluene	Ave	3.168	3.146		12.4	12.5	-0.7	20.0
1,4-Dichlorobenzene	Ave	1.562	1.577	0.5000	12.6	12.5	1.0	20.0
1,2,3-Trimethylbenzene	Ave	1.345	1.299		12.1	12.5	-3.4	20.0
Benzyl chloride	Ave	0.2484	0.2653		13.4	12.5	6.8	20.0
n-Butylbenzene	Ave	1.595	1.580		12.4	12.5	-0.9	20.0
1,2-Dichlorobenzene	Ave	1.436	1.455	0.4000	12.7	12.5	1.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0871	0.0898	0.0500	12.9	12.5	3.0	20.0
1,3,5-Trichlorobenzene	Ave	1.144	1.174		12.8	12.5	2.6	20.0
1,2,4-Trichlorobenzene	Ave	0.9687	1.012	0.2000	13.1	12.5	4.4	20.0
Hexachlorobutadiene	Ave	0.4439	0.4304		12.1	12.5	-3.0	20.0
Naphthalene	Ave	1.870	1.899		12.7	12.5	1.5	20.0
1,2,3-Trichlorobenzene	Ave	0.8409	0.8550		12.7	12.5	1.7	20.0
Dibromofluoromethane (Surr)	Ave	0.2419	0.2505		10.4	10.0	3.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0489	0.0499		10.2	10.0	2.1	20.0
Toluene-d8 (Surr)	Ave	1.344	1.266		9.42	10.0	-5.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4904	0.4796		9.78	10.0	-2.2	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X02.D
Lims ID: CCVIS VSTD12.5
Client ID:
Sample Type: CCVIS
Inject. Date: 07-Jul-2021 09:13:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033672-003
Misc. Info.: CCVIS VSTD12.5
Operator ID: SRK36897 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2021 17:04:30 Calib Date: 30-Jun-2021 20:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: knouses Date: 07-Jul-2021 10:03:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.989	1.989	0.000	99	695765	12.5	13.7	
6 Chloromethane	50	2.190	2.190	0.000	99	733670	12.5	11.9	
8 Butadiene	39	2.306	2.306	0.000	92	683432	12.5	12.0	
7 Vinyl chloride	62	2.312	2.312	0.000	98	763591	12.5	12.3	
9 Bromomethane	94	2.635	2.635	0.000	90	581019	12.5	12.6	
10 Chloroethane	64	2.727	2.727	0.000	100	494920	12.5	12.3	
11 Dichlorofluoromethane	67	2.971	2.971	0.000	97	1145042	12.5	12.3	
13 Trichlorofluoromethane	101	3.044	3.044	0.000	98	1072314	12.5	13.1	
15 Ethyl ether	59	3.276	3.276	0.000	91	448444	12.5	12.7	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.367	3.367	0.000	94	794510	12.5	12.1	
17 Acrolein	56	3.440	3.440	0.000	99	3550169	625.0	573.4	
18 1,1-Dichloroethene	96	3.593	3.593	0.000	98	607692	12.5	12.8	
19 Acetone	43	3.617	3.617	0.000	100	843689	125.0	107.8	
20 112TCTFE	101	3.635	3.635	0.000	93	668015	12.5	13.2	
21 Isopropyl alcohol	45	3.769	3.769	0.000	96	286369	250.0	204.6	M
22 Iodomethane	142	3.800	3.800	0.000	98	1116222	12.5	13.4	
23 Ethyl bromide	108	3.818	3.818	0.000	98	518933	12.5	13.0	
24 Carbon disulfide	76	3.916	3.916	0.000	99	1797932	12.5	12.6	
26 Methyl acetate	43	4.038	4.038	0.000	98	281197	12.5	12.1	M
27 3-Chloro-1-propene	41	4.068	4.068	0.000	95	1018716	12.5	12.1	
* 28 t-Butyl alcohol-d10 (IS)	65	4.245	4.245	0.000	86	106637	50.0	50.0	
29 Methylene Chloride	84	4.257	4.257	0.000	92	648828	12.5	13.0	
30 2-Methyl-2-propanol	59	4.373	4.373	0.000	99	591587	250.0	242.7	M
31 Acrylonitrile	53	4.586	4.586	0.000	99	312416	31.3	30.6	
32 Methyl tert-butyl ether	73	4.672	4.672	0.000	95	1442126	12.5	12.8	
33 trans-1,2-Dichloroethene	96	4.684	4.684	0.000	99	659292	12.5	12.9	
34 Hexane	57	5.111	5.111	0.000	91	1055564	12.5	12.8	
35 1,1-Dichloroethane	63	5.336	5.336	0.000	96	1201128	12.5	12.8	
37 Isopropyl ether	45	5.391	5.391	0.000	95	2061606	12.5	12.5	
38 2-Chloro-1,3-butadiene	53	5.452	5.452	0.000	89	1027616	12.5	12.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.927	5.927	0.000	98	1825615	12.5	12.8	
41 2-Butanone (MEK)	43	6.123	6.123	0.000	100	1586862	125.0	121.2	
42 cis-1,2-Dichloroethene	96	6.171	6.171	0.000	82	722508	12.5	12.8	
43 2,2-Dichloropropane	77	6.190	6.190	0.000	86	1008599	12.5	13.1	
45 Propionitrile	54	6.214	6.214	0.000	99	919214	250.0	247.5	
47 Methacrylonitrile	67	6.433	6.433	0.000	91	1672869	125.0	122.4	
49 Tetrahydrofuran	71	6.513	6.513	0.000	76	223618	62.5	61.6	
48 Chlorobromomethane	128	6.507	6.507	0.000	94	310695	12.5	13.7	
50 Chloroform	83	6.653	6.653	0.000	93	1164205	12.5	13.1	
$ 51 Dibromofluoromethane (Surr)	113	6.866	6.866	0.000	93	449953	10.0	10.4	
52 1,1,1-Trichloroethane	97	6.885	6.885	0.000	98	1061133	12.5	13.0	
53 Cyclohexane	56	6.994	6.994	0.000	89	1283449	12.5	12.5	
55 1,1-Dichloropropene	75	7.098	7.098	0.000	97	970973	12.5	13.0	
56 Carbon tetrachloride	117	7.098	7.098	0.000	83	949597	12.5	13.5	
57 Isobutyl alcohol	41	7.232	7.232	0.000	95	528033	625.0	571.0	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.324	7.324	0.000	86	89614	10.0	10.2	
59 Benzene	78	7.360	7.360	0.000	96	2749470	12.5	12.8	
60 1,2-Dichloroethane	62	7.433	7.433	0.000	97	689835	12.5	13.1	
62 Tert-amyl methyl ether	73	7.549	7.549	0.000	99	1647979	12.5	13.1	
* 65 Fluorobenzene (IS)	96	7.769	7.769	0.000	99	1796157	10.0	10.0	
64 n-Heptane	43	7.781	7.781	0.000	92	1088040	12.5	12.1	
66 n-Butanol	56	8.110	8.110	0.000	86	851926	1093.8	1051.9	M
67 Trichloroethene	95	8.250	8.250	0.000	98	733330	12.5	13.2	
68 Methylcyclohexane	83	8.561	8.561	0.000	93	1358180	12.5	13.0	
70 1,2-Dichloropropane	63	8.579	8.579	0.000	80	715697	12.5	12.9	
69 2-ethoxy-2-methyl butane	87	8.585	8.585	0.000	92	952214	12.5	13.6	
71 Methyl methacrylate	69	8.659	8.659	0.000	91	313736	12.5	12.5	
72 1,4-Dioxane	88	8.665	8.665	0.000	35	95387	625.0	578.8	M
73 Dibromomethane	93	8.695	8.695	0.000	97	328369	12.5	13.8	
75 Dichlorobromomethane	83	8.927	8.927	0.000	100	846065	12.5	13.6	
76 2-Nitropropane	41	9.189	9.189	0.000	96	416572	62.5	62.6	
79 1-Bromo-2-chloroethane	63	9.323	9.323	0.000	99	716404	12.5	13.3	
80 cis-1,3-Dichloropropene	75	9.469	9.469	0.000	97	1097137	12.5	13.6	
81 4-Methyl-2-pentanone (MIBK)	43	9.640	9.640	0.000	96	4012586	125.0	122.4	
$ 82 Toluene-d8 (Surr)	98	9.780	9.780	0.000	93	1900492	10.0	9.42	
83 Toluene	92	9.854	9.854	0.000	99	1836731	12.5	11.9	
85 trans-1,3-Dichloropropene	75	10.110	10.110	0.000	91	893476	12.5	12.4	
86 Ethyl methacrylate	69	10.164	10.164	0.000	89	698835	12.5	12.7	
87 1,1,2-Trichloroethane	97	10.311	10.311	0.000	90	491360	12.5	12.5	
88 Tetrachloroethene	166	10.402	10.402	0.000	97	847905	12.5	12.7	
89 1,3-Dichloropropane	76	10.475	10.475	0.000	88	854606	12.5	12.5	
91 2-Hexanone	43	10.524	10.524	0.000	97	2815122	125.0	125.5	
93 Chlorodibromomethane	129	10.689	10.689	0.000	90	623139	12.5	12.8	
94 Ethylene Dibromide	107	10.805	10.805	0.000	98	478798	12.5	12.7	
* 97 Chlorobenzene-d5 (IS)	117	11.231	11.231	0.000	85	1501425	10.0	10.0	
96 1-Chlorohexane	91	11.237	11.237	0.000	97	1100597	12.5	11.8	
98 Chlorobenzene	112	11.262	11.262	0.000	96	2025341	12.5	12.4	
99 1,1,1,2-Tetrachloroethane	131	11.341	11.341	0.000	97	691570	12.5	12.4	
100 Ethylbenzene	91	11.347	11.347	0.000	98	3558552	12.5	12.2	
101 m-Xylene & p-Xylene	106	11.457	11.457	0.000	98	2776757	25.0	25.0	
102 o-Xylene	106	11.786	11.786	0.000	96	1374392	12.5	12.5	
103 Styrene	104	11.804	11.804	0.000	95	2242587	12.5	12.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 Bromoform	173	11.963	11.963	0.000	97	364222	12.5	13.5	
105 Isopropylbenzene	105	12.091	12.091	0.000	95	3553505	12.5	12.5	
$ 108 4-Bromofluorobenzene (Surr)	95	12.231	12.231	0.000	90	720100	10.0	9.78	
109 1,1,2,2-Tetrachloroethane	83	12.329	12.329	0.000	93	588824	12.5	11.9	
111 Bromobenzene	156	12.353	12.353	0.000	92	802775	12.5	12.7	
110 trans-1,4-Dichloro-2-butene	53	12.353	12.353	0.000	90	1507012	125.0	130.9	
112 1,2,3-Trichloropropane	110	12.377	12.377	0.000	80	156488	12.5	12.3	
113 N-Propylbenzene	91	12.414	12.414	0.000	99	4220209	12.5	12.1	
114 2-Chlorotoluene	126	12.493	12.493	0.000	97	831010	12.5	12.2	
115 1,3,5-Trimethylbenzene	105	12.554	12.554	0.000	94	2961107	12.5	12.2	
116 4-Chlorotoluene	126	12.585	12.585	0.000	97	840520	12.5	12.3	
118 tert-Butylbenzene	134	12.792	12.792	0.000	93	646461	12.5	12.2	
119 Pentachloroethane	167	12.829	12.829	0.000	93	503352	12.5	12.8	
120 1,2,4-Trimethylbenzene	105	12.835	12.835	0.000	97	3038386	12.5	12.3	
121 sec-Butylbenzene	105	12.957	12.957	0.000	94	3792957	12.5	12.3	
122 1,3-Dichlorobenzene	146	13.060	13.060	0.000	98	1631240	12.5	12.6	
123 4-Isopropyltoluene	119	13.066	13.066	0.000	98	3224759	12.5	12.4	
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	93	820082	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.133	13.133	0.000	95	1616594	12.5	12.6	
126 1,2,3-Trimethylbenzene	120	13.139	13.139	0.000	98	1332070	12.5	12.1	
127 Benzyl chloride	126	13.207	13.207	0.000	98	271979	12.5	13.4	
130 n-Butylbenzene	92	13.359	13.359	0.000	97	1620165	12.5	12.4	
131 1,2-Dichlorobenzene	146	13.389	13.389	0.000	98	1491102	12.5	12.7	
129 p-Diethylbenzene	119	13.408	13.408	0.000	86	1592327	12.5	12.1	
134 1,2-Dibromo-3-Chloropropane	155	13.932	13.932	0.000	88	92020	12.5	12.9	
135 1,3,5-Trichlorobenzene	180	14.060	14.060	0.000	98	1203917	12.5	12.8	
136 1,2,4-Trichlorobenzene	180	14.481	14.481	0.000	94	1037107	12.5	13.1	
137 Hexachlorobutadiene	225	14.566	14.566	0.000	97	441219	12.5	12.1	
138 Naphthalene	128	14.664	14.664	0.000	97	1946352	12.5	12.7	
139 1,2,3-Trichlorobenzene	180	14.804	14.804	0.000	96	876472	12.5	12.7	
140 2-Methylnaphthalene	142	15.438	15.438	0.000	92	1066624	12.5	12.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#2_826_00007	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00011	Amount Added: 25.00	Units: uL	
MSV_LL_#1_826_00006	Amount Added: 25.00	Units: uL	
MSV_LLcentISS_00001	Amount Added: 5.00	Units: uL	Run Reagent

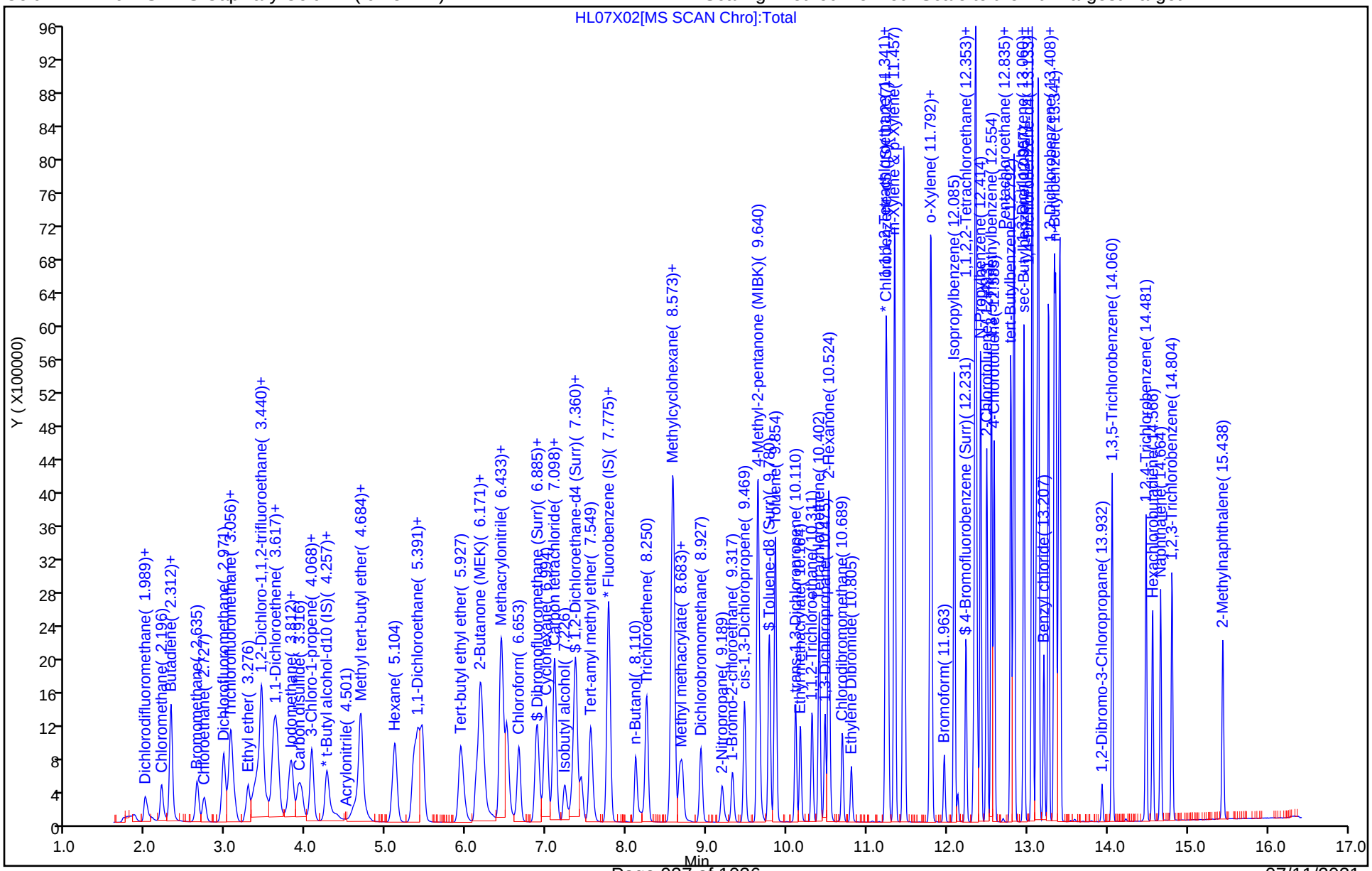
Report Date: 07-Jul-2021 17:04:31 Chrom Revision: 2.3 07-Jul-2021 12:11:26

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X02.D

Injection Date:	07-Jul-2021 09:13:30	Instrument ID:	19094	Operator ID:	SRK36897
Lims ID:	CCVIS VSTD12.5			Worklist Smp#:	3
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

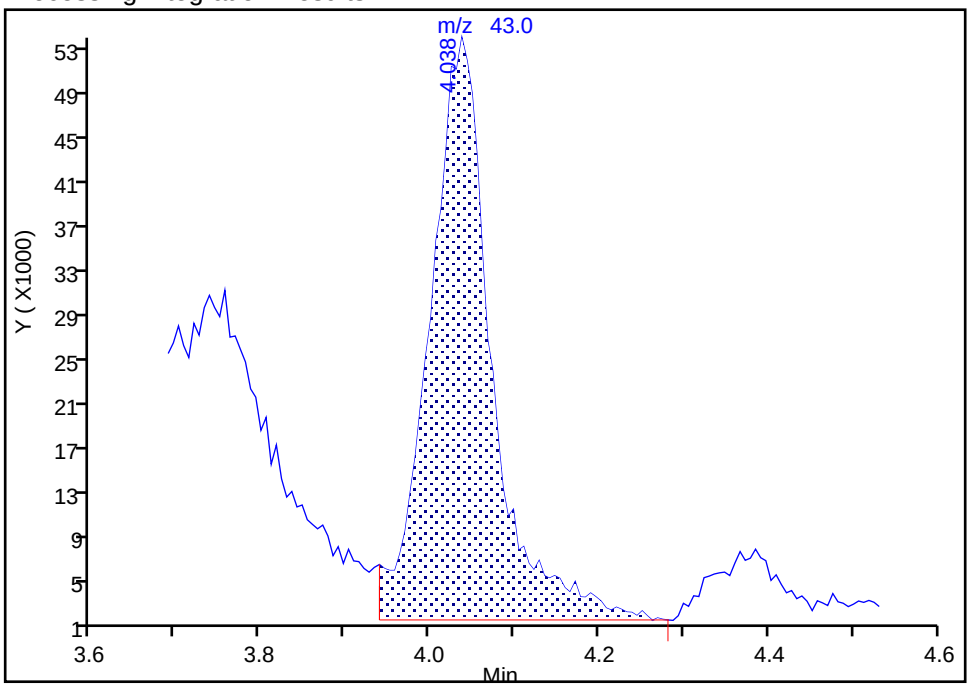
Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X02.D				
Injection Date:	07-Jul-2021 09:13:30	Instrument ID:	19094		
Lims ID:	CCVIS VSTD12.5				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

26 Methyl acetate, CAS: 79-20-9

Signal: 1

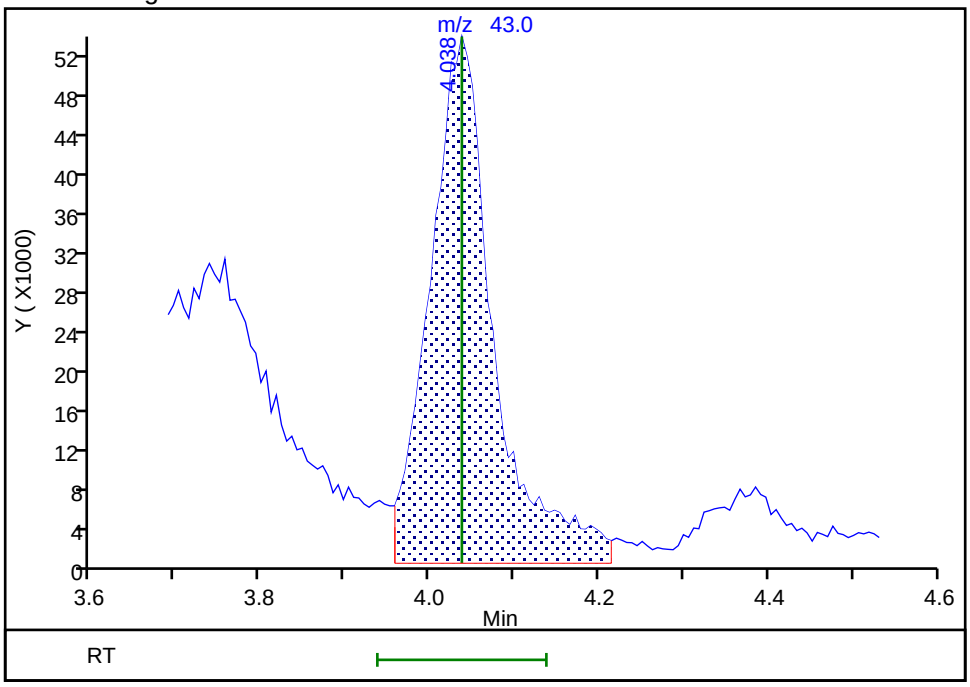
Processing Integration Results

RT: 4.04
Area: 265970
Amount: 11.423593
Amount Units: ug/l



Manual Integration Results

RT: 4.04
Area: 281197
Amount: 12.077603
Amount Units: ug/l



Reviewer: knouses, 07-Jul-2021 09:55:07
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

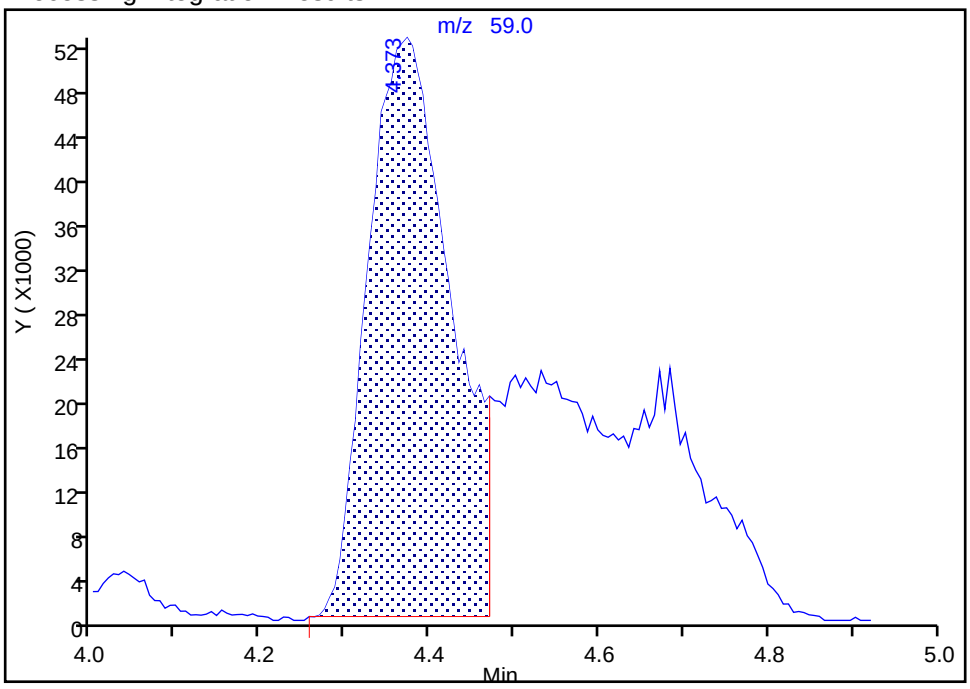
Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X02.D
Injection Date: 07-Jul-2021 09:13:30 Instrument ID: 19094
Lims ID: CCVIS VSTD12.5
Client ID:
Operator ID: SRK36897 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

30 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

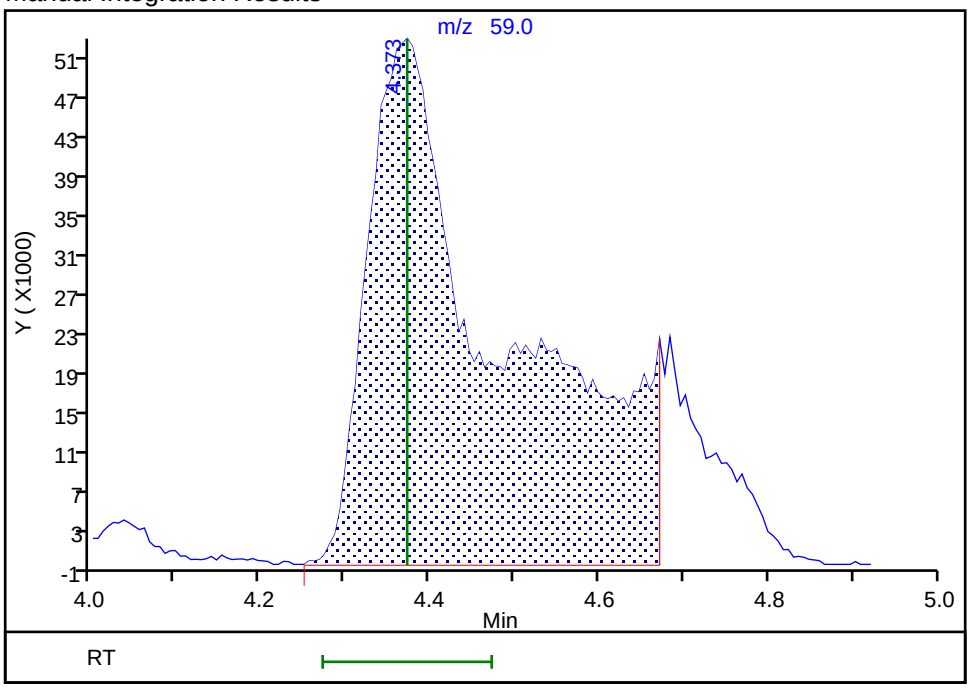
Processing Integration Results

RT: 4.37
Area: 354914
Amount: 145.6226
Amount Units: ug/l



Manual Integration Results

RT: 4.37
Area: 591587
Amount: 242.7305
Amount Units: ug/l



Reviewer: knouses, 07-Jul-2021 09:55:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

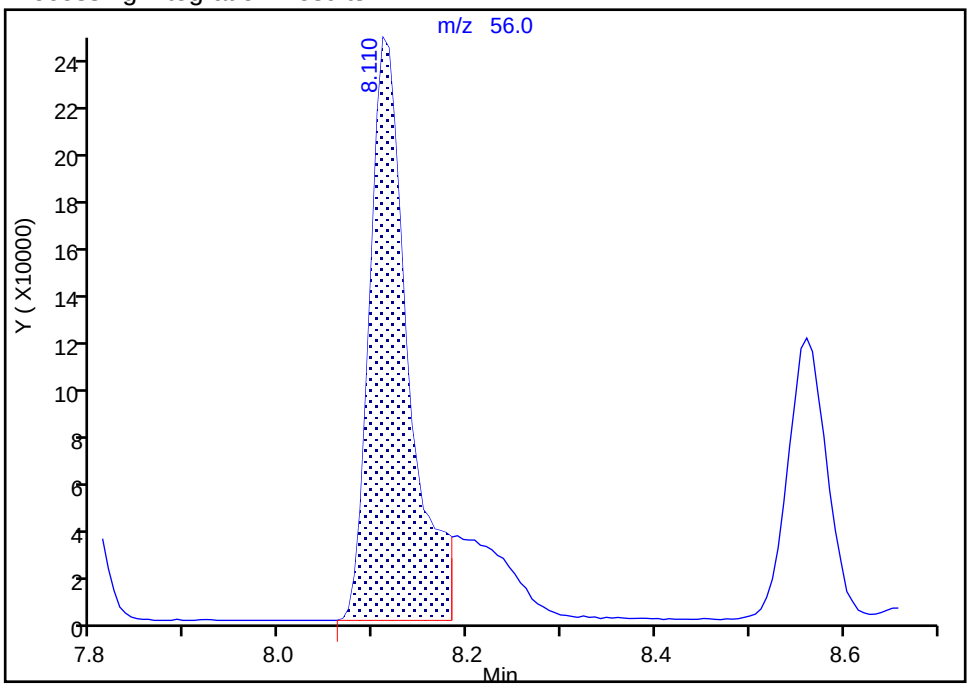
Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X02.D
Injection Date: 07-Jul-2021 09:13:30 Instrument ID: 19094
Lims ID: CCVIS VSTD12.5
Client ID:
Operator ID: SRK36897 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

66 n-Butanol, CAS: 71-36-3

Signal: 1

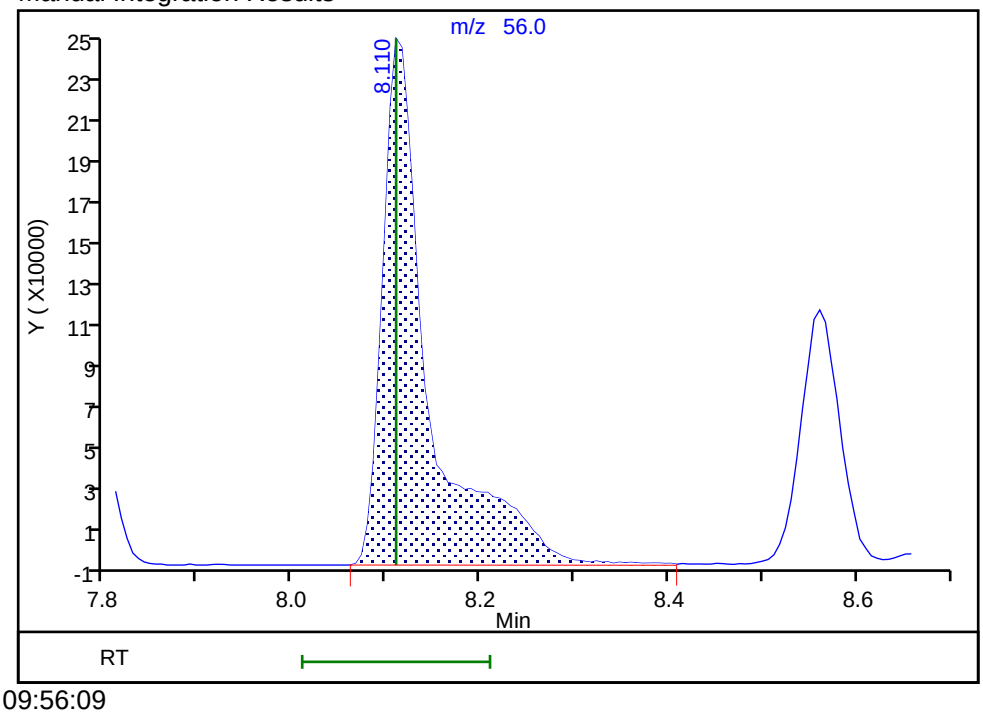
Processing Integration Results

RT: 8.11
Area: 701158
Amount: 865.7473
Amount Units: ug/l



Manual Integration Results

RT: 8.11
Area: 851926
Amount: 1051.9065
Amount Units: ug/l



Reviewer: knouses, 07-Jul-2021 09:56:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

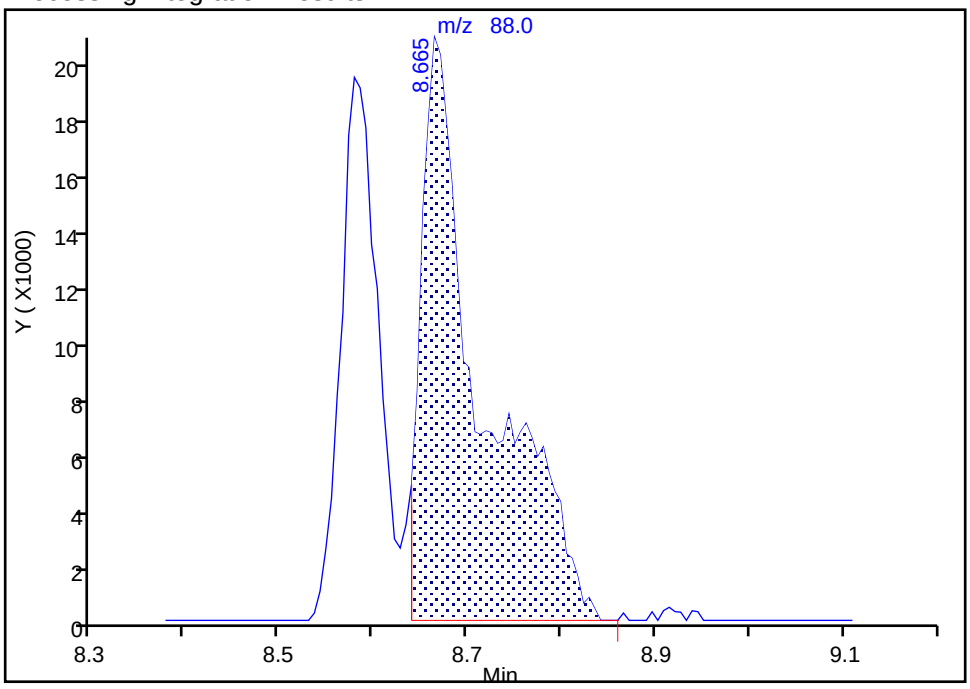
Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X02.D
Injection Date: 07-Jul-2021 09:13:30 Instrument ID: 19094
Lims ID: CCVIS VSTD12.5
Client ID:
Operator ID: SRK36897 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

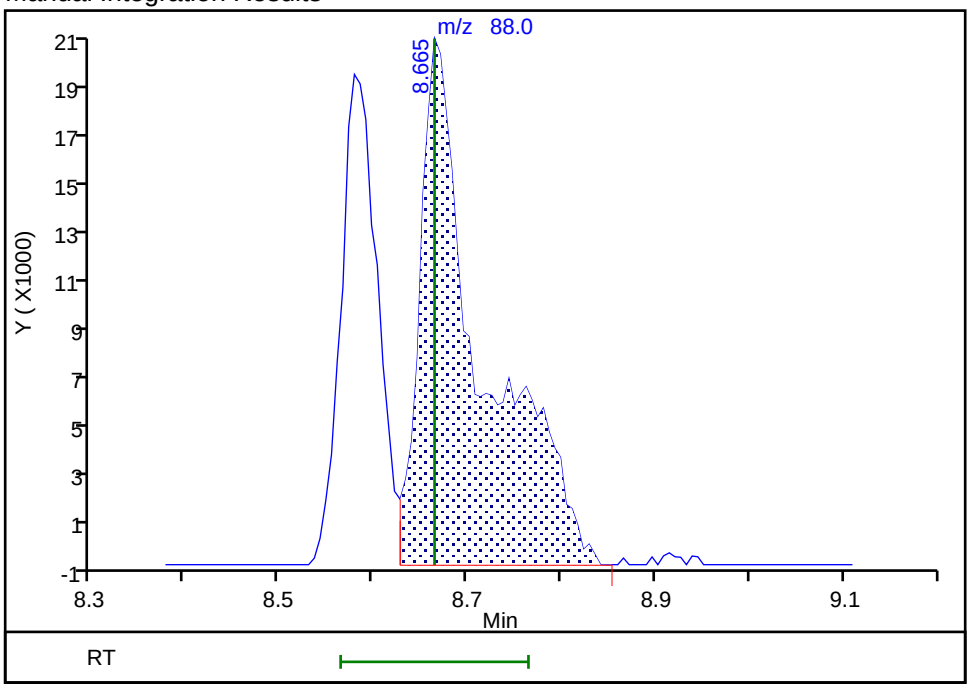
Processing Integration Results

RT: 8.66
Area: 92928
Amount: 563.9217
Amount Units: ug/l



Manual Integration Results

RT: 8.66
Area: 95387
Amount: 578.8439
Amount Units: ug/l



Reviewer: knouses, 07-Jul-2021 09:56:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11T01.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 11-Mar-2021 15:00:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0023820-001
Operator ID: SRK36897 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 24-Mar-2021 17:46:32 Calib Date: 11-Mar-2021 21:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1650

First Level Reviewer: beckerk Date: 24-Mar-2021 17:46:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 165 BFB	95	12.079	12.079	0.000	0	249627	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

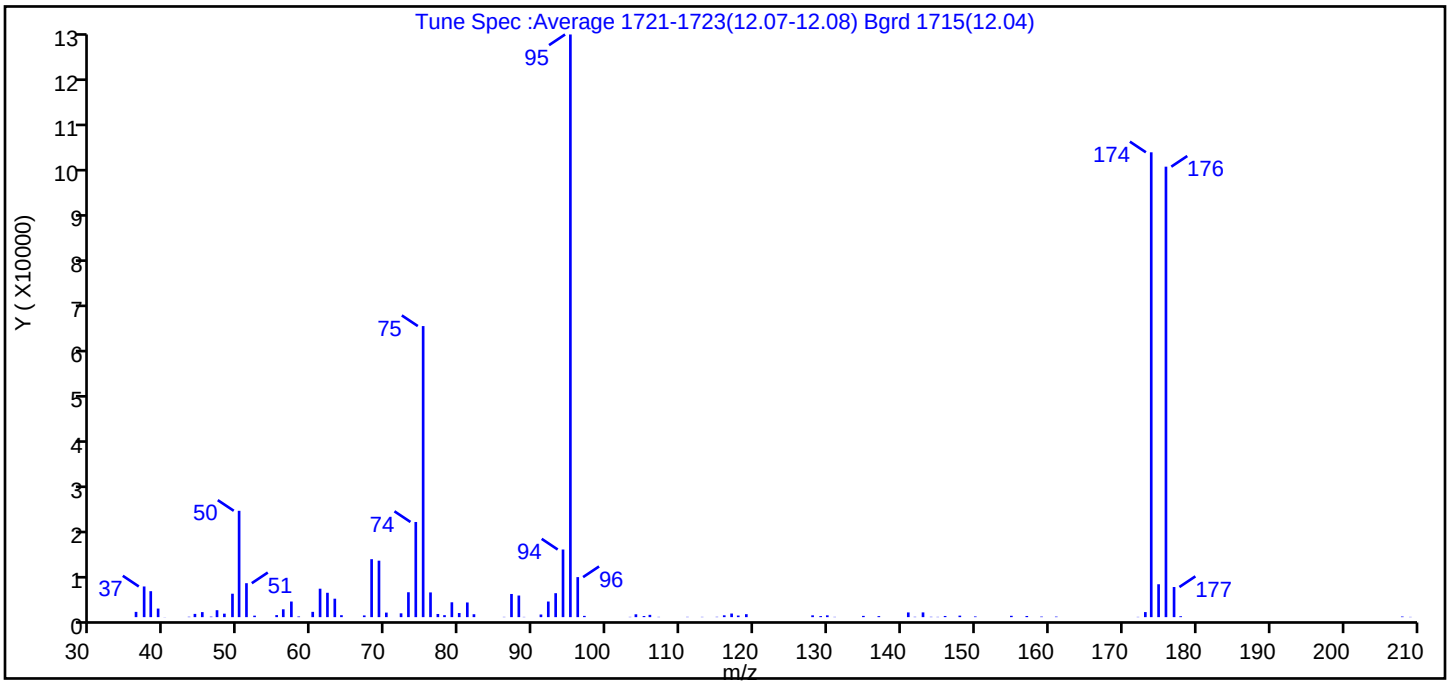
MSV_V_BFB_00004 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11T01.D
Injection Date: 11-Mar-2021 15:00:30 Instrument ID: 10193
Lims ID: BFB
Client ID:
Operator ID: SRK36897 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 165 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.3
75	30 to 60% of m/z 95	50.0
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.9 (1.1)
174	50 to 120% of m/z 95	79.8
175	5 to 9% of m/z 174	5.6 (7.1)
176	Greater than 95% but less than 101% of m/z 174	77.3 (96.9)
177	5 to 9% of m/z 176	5.2 (6.7)

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11T01.D\MSV_10193_25mL.rslt\spectra.d
Injection Date: 11-Mar-2021 15:00:30
Spectrum: Tune Spec :Average 1721-1723(12.07-12.08) Bgrd 1715(12.04)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 89

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1123	64.00	414	94.00	14419	142.00	74
37.00	6539	67.00	365	95.00	124224	143.00	1013
38.00	5535	68.00	12356	96.00	8535	144.00	73
39.00	1830	69.00	12037	97.00	269	145.00	58
40.00	24	70.00	969	103.00	57	146.00	250
43.00	81	72.00	815	104.00	607	148.00	322
44.00	695	73.00	5309	105.00	238	150.00	151
45.00	1073	74.00	20288	106.00	489	155.00	287
46.00	109	75.00	62056	107.00	58	157.00	245
47.00	1477	76.00	5272	111.00	61	159.00	115
48.00	742	77.00	676	113.00	57	161.00	114
49.00	4995	78.00	421	115.00	71	172.00	55
50.00	22672	79.00	3168	116.00	390	173.00	1079
51.00	7237	80.00	876	117.00	771	174.00	99104
52.00	317	81.00	3130	118.00	342	175.00	7012
55.00	434	82.00	620	119.00	632	176.00	96040
56.00	1676	86.00	56	128.00	386	177.00	6423
57.00	3330	87.00	4940	129.00	225	178.00	190
58.00	140	88.00	4610	130.00	384	208.00	130
60.00	1130	89.00	51	131.00	58	209.00	52
61.00	6063	91.00	560	135.00	267		
62.00	5195	92.00	3331	137.00	217		
63.00	3932	93.00	5106	141.00	1006		

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

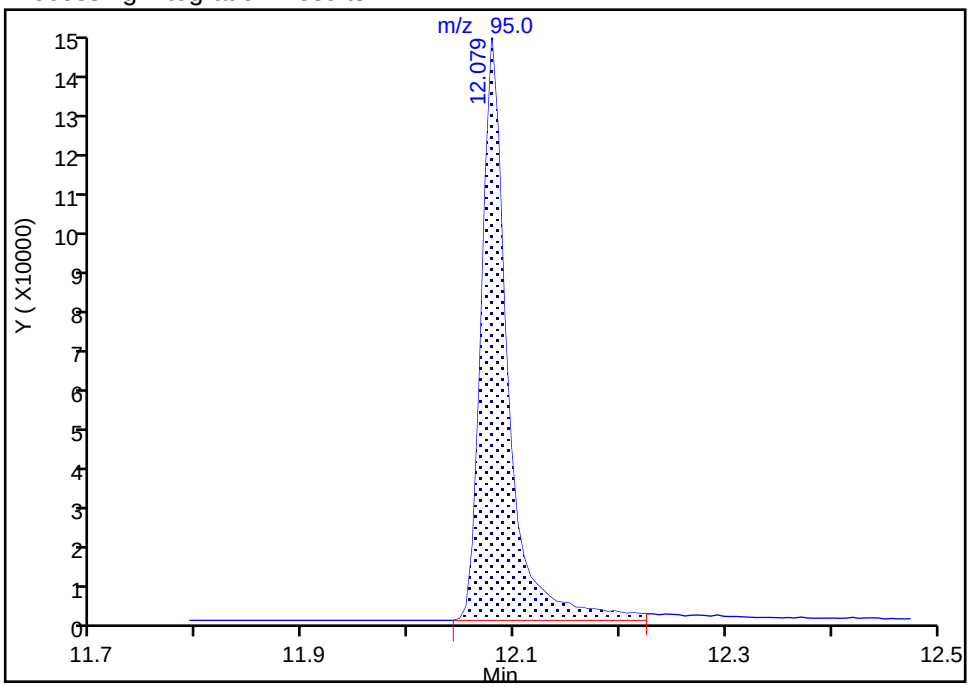
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11T01.D				
Injection Date:	11-Mar-2021 15:00:30	Instrument ID:	10193		
Lims ID:	BFB				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

$ 165 BFB, CAS: 460-00-4

Signal: 1

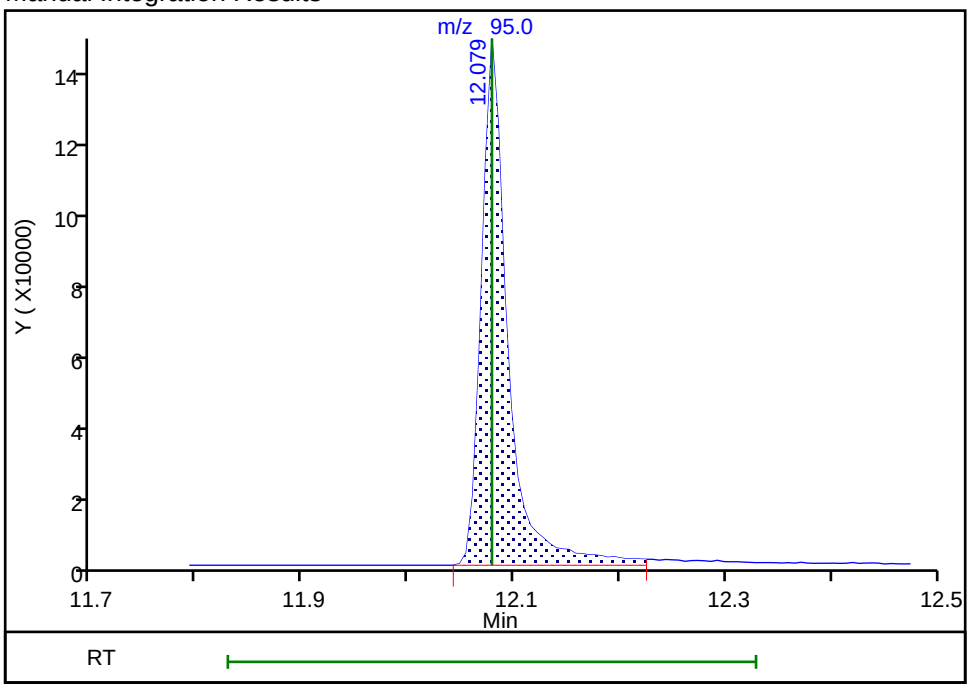
Processing Integration Results

RT: 12.08
Area: 249627
Amount: 0
Amount Units: ug/l



Manual Integration Results

RT: 12.08
Area: 249627
Amount: 0
Amount Units: ug/l



Reviewer: longj, 11-Mar-2021 15:28:39

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

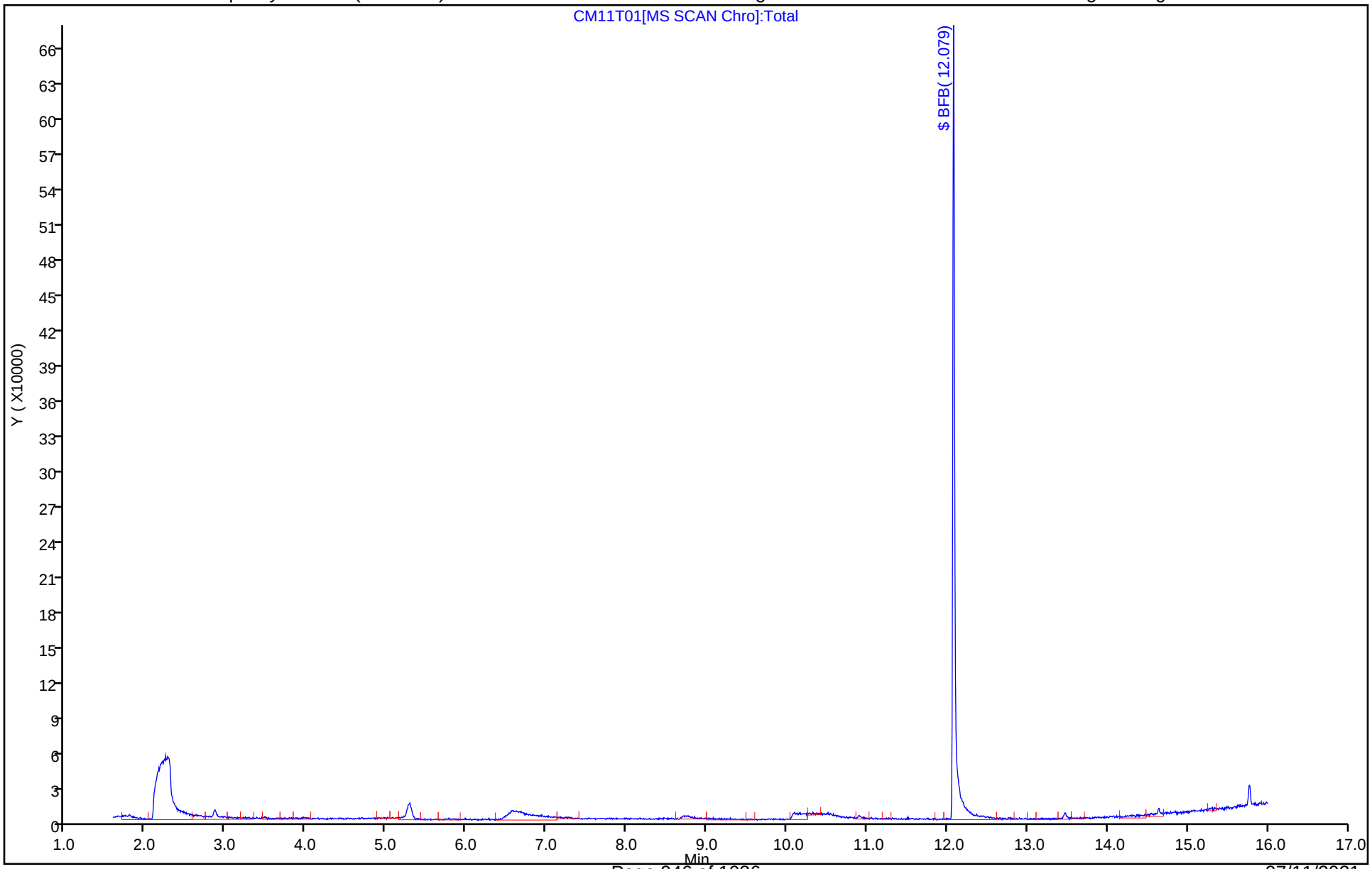
Report Date: 24-Mar-2021 17:46:32 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11T01.D

Injection Date:	11-Mar-2021 15:00:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06T01.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	06-Jul-2021 09:33:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0033571-001				
Misc. Info.:	BFB				
Operator ID:	SRK36897	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Jul-2021 14:18:41	Calib Date:	13-Apr-2021 23:14:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1667				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 165 BFB	95	5.123	5.123	0.000	88	219570	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

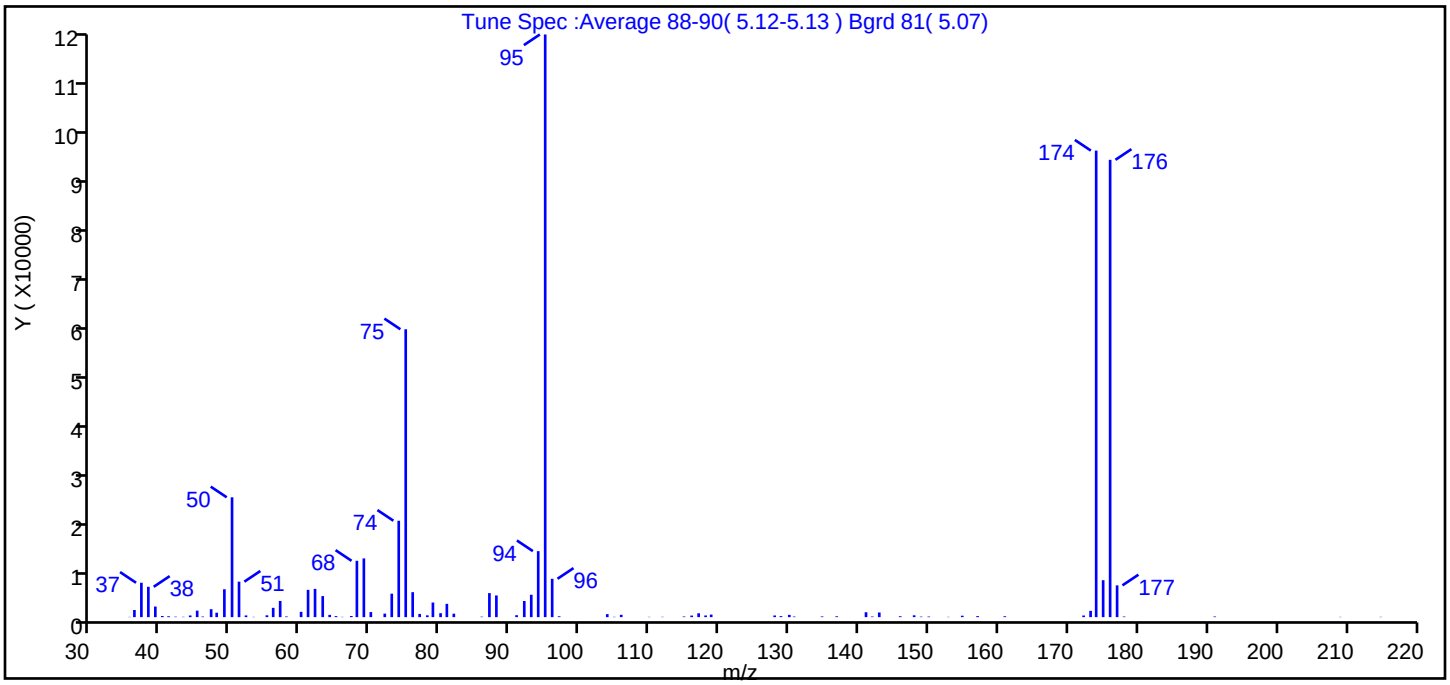
MSV_V_BFB_00005 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06T01.D
Injection Date: 06-Jul-2021 09:33:30 Instrument ID: 10193
Lims ID: BFB
Client ID:
Operator ID: SRK36897 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 165 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.6
75	30 to 60% of m/z 95	49.4
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	1.1 (1.4)
174	50 to 120% of m/z 95	80.1
175	5 to 9% of m/z 174	6.3 (7.9)
176	Greater than 95% but less than 101% of m/z 174	78.5 (98.0)
177	5 to 9% of m/z 176	5.5 (6.9)

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06T01.D\MSV_10193_25mL.rslt\spectra.d
Injection Date: 06-Jul-2021 09:33:30
Spectrum: Tune Spec :Average 88-90(5.12-5.13) Bgrd 81(5.07)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 92

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	50	60.00	1062	87.00	4806	135.00	139
36.00	1424	61.00	5449	88.00	4335	137.00	171
37.00	6875	62.00	5649	91.00	388	141.00	983
38.00	6063	63.00	4209	92.00	3227	142.00	122
39.00	2117	64.00	454	93.00	4475	143.00	933
40.00	232	65.00	210	94.00	13188	146.00	180
41.00	179	66.00	56	95.00	116416	148.00	367
42.00	93	67.00	231	96.00	7665	149.00	103
43.00	65	68.00	11255	97.00	171	150.00	121
44.00	331	69.00	11731	104.00	605	153.00	57
45.00	1299	70.00	1018	105.00	68	155.00	287
46.00	121	72.00	704	106.00	468	157.00	210
47.00	1591	73.00	4691	110.00	57	161.00	178
48.00	889	74.00	19264	112.00	62	172.00	328
49.00	5573	75.00	57520	115.00	130	173.00	1260
50.00	23944	76.00	4987	116.00	316	174.00	93216
51.00	7089	77.00	643	117.00	772	175.00	7384
52.00	341	78.00	362	118.00	335	176.00	91376
53.00	55	79.00	2922	119.00	509	177.00	6349
55.00	367	80.00	787	128.00	332	178.00	124
56.00	1861	81.00	2657	129.00	204	191.00	128
57.00	3237	82.00	692	130.00	456	209.00	52
58.00	134	86.00	95	131.00	116	215.00	58

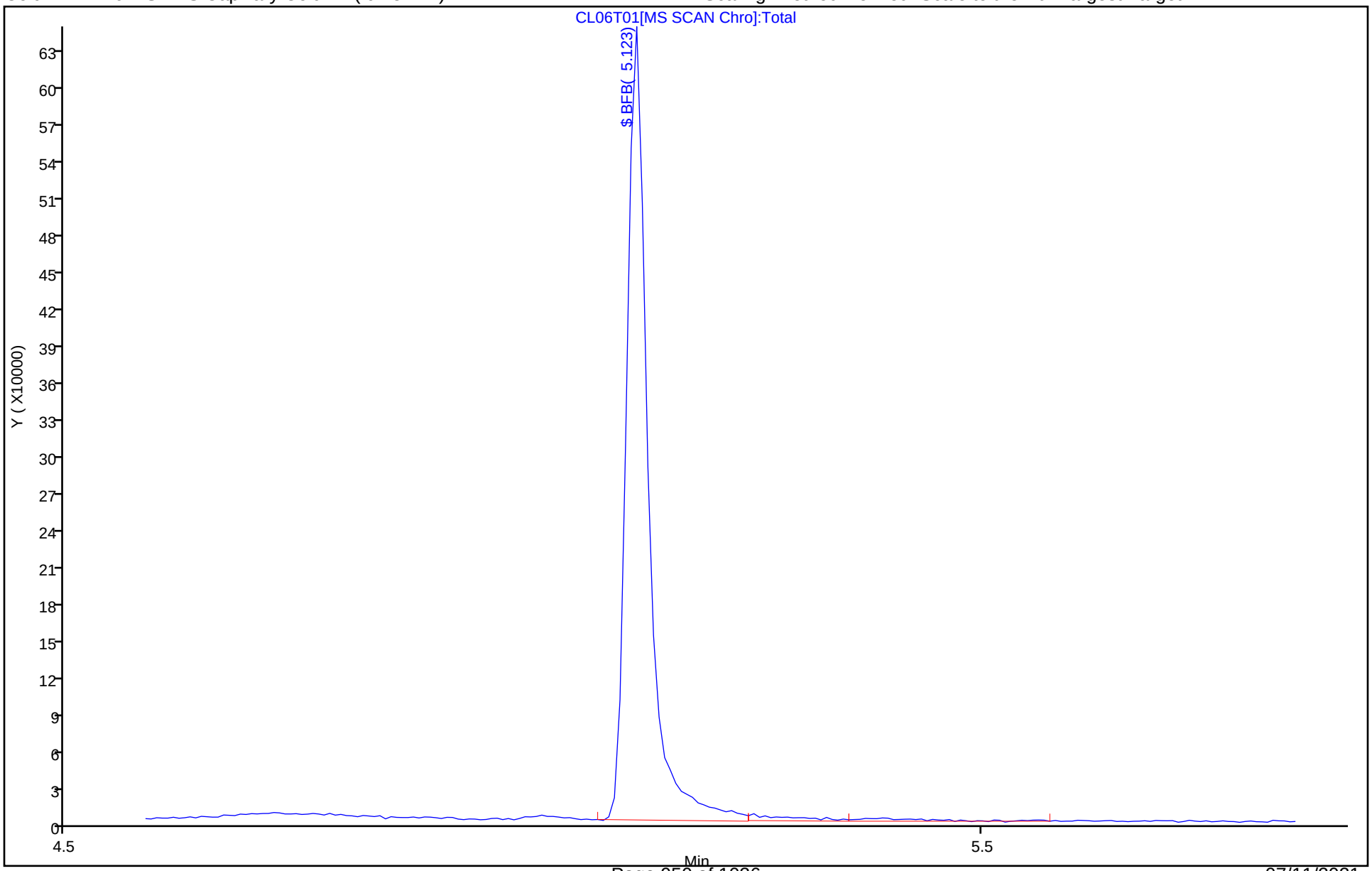
Report Date: 06-Jul-2021 14:18:41 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06T01.D

Injection Date:	06-Jul-2021 09:33:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30T03.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	30-Jun-2021 14:20:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0033290-001				
Misc. Info.:	BFB				
Operator ID:	jml01693	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Jul-2021 01:11:13	Calib Date:	30-Jun-2021 20:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1617				
First Level Reviewer: longj		Date:	30-Jun-2021 14:37:51		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 165 BFB	95	5.233	5.233	0.000	89	469193	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

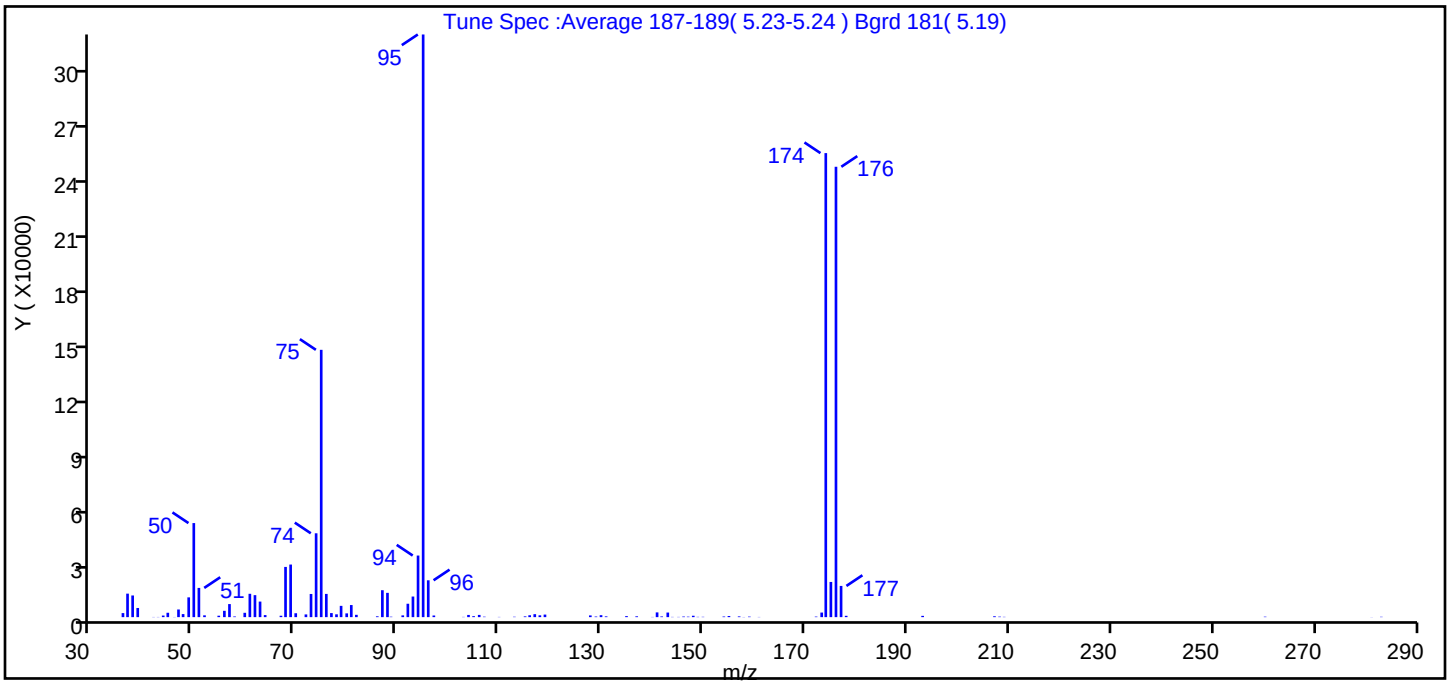
MSV_V_BFB_00005 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30T03.D
Injection Date: 30-Jun-2021 14:20:30 Instrument ID: 19094
Lims ID: bfb
Client ID:
Operator ID: jml01693 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 165 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.1
75	30 to 60% of m/z 95	45.9
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.8 (1.0)
174	50 to 120% of m/z 95	79.6
175	5 to 9% of m/z 174	6.0 (7.6)
176	Greater than 95% but less than 101% of m/z 174	77.3 (97.1)
177	5 to 9% of m/z 176	5.4 (6.9)

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30T03.D\MSV_19094_25mL.rslt\spectra.d
Injection Date: 30-Jun-2021 14:20:30
Spectrum: Tune Spec :Average 187-189(5.23-5.24) Bgrd 181(5.19)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 99

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2177	68.00	27040	103.00	127	147.00	257
37.00	12655	69.00	28320	104.00	1186	148.00	748
38.00	11668	70.00	2103	105.00	523	149.00	152
39.00	4930	72.00	1468	106.00	1203	150.00	173
42.00	96	73.00	12477	107.00	245	154.00	336
43.00	101	74.00	45152	110.00	120	155.00	604
44.00	855	75.00	143936	113.00	212	157.00	397
45.00	2357	76.00	12510	115.00	410	158.00	84
46.00	85	77.00	2187	116.00	1011	159.00	287
47.00	4120	78.00	1519	117.00	1601	161.00	102
48.00	1649	79.00	6075	118.00	978	172.00	297
49.00	10649	80.00	2026	119.00	1377	173.00	2469
50.00	50648	81.00	6513	128.00	922	174.00	249856
51.00	15736	82.00	1248	129.00	328	175.00	18944
52.00	976	86.00	447	130.00	1055	176.00	242496
55.00	768	87.00	14503	131.00	406	177.00	16808
56.00	3404	88.00	13077	135.00	554	178.00	718
57.00	7036	89.00	239	137.00	448	193.00	689
58.00	359	91.00	946	140.00	107	207.00	463
60.00	2338	92.00	7219	141.00	2553	208.00	278
61.00	12570	93.00	11097	142.00	372	209.00	158
62.00	11841	94.00	33168	143.00	2473	260.00	250
63.00	8378	95.00	313728	144.00	128	281.00	54
64.00	1105	96.00	19840	145.00	122	283.00	191
67.00	752	97.00	882	146.00	319		

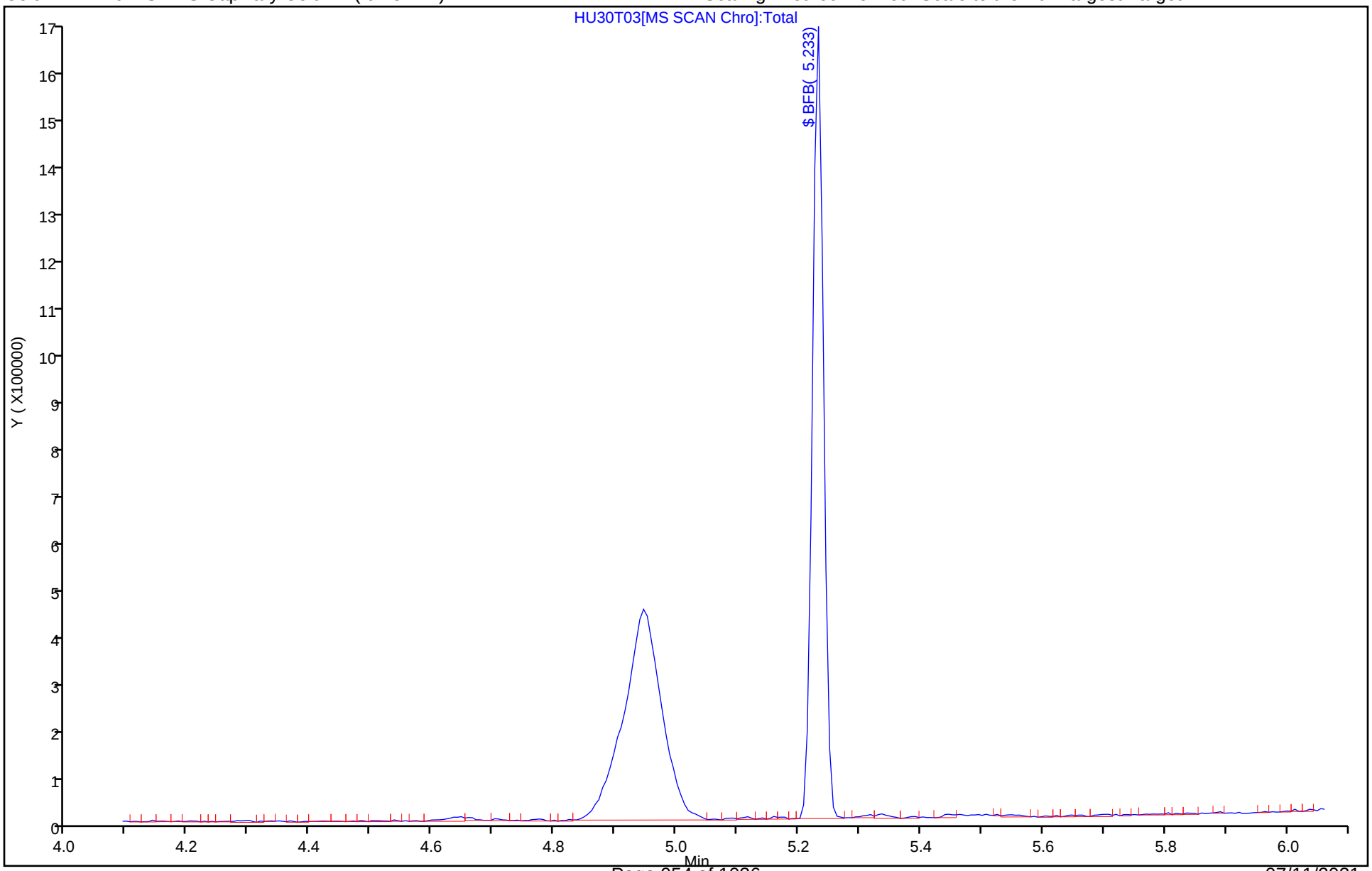
Report Date: 01-Jul-2021 01:11:13 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30T03.D

Injection Date:	30-Jun-2021 14:20:30	Instrument ID:	19094	Operator ID:	jml01693
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07T01.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	07-Jul-2021 08:36:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0033672-001				
Misc. Info.:	BFB				
Operator ID:	SRK36897	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Jul-2021 17:05:15	Calib Date:	30-Jun-2021 20:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1651				
First Level Reviewer: knouses		Date:	07-Jul-2021 09:02:55		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 165 BFB	95	5.233	5.233	0.000	93	340045	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

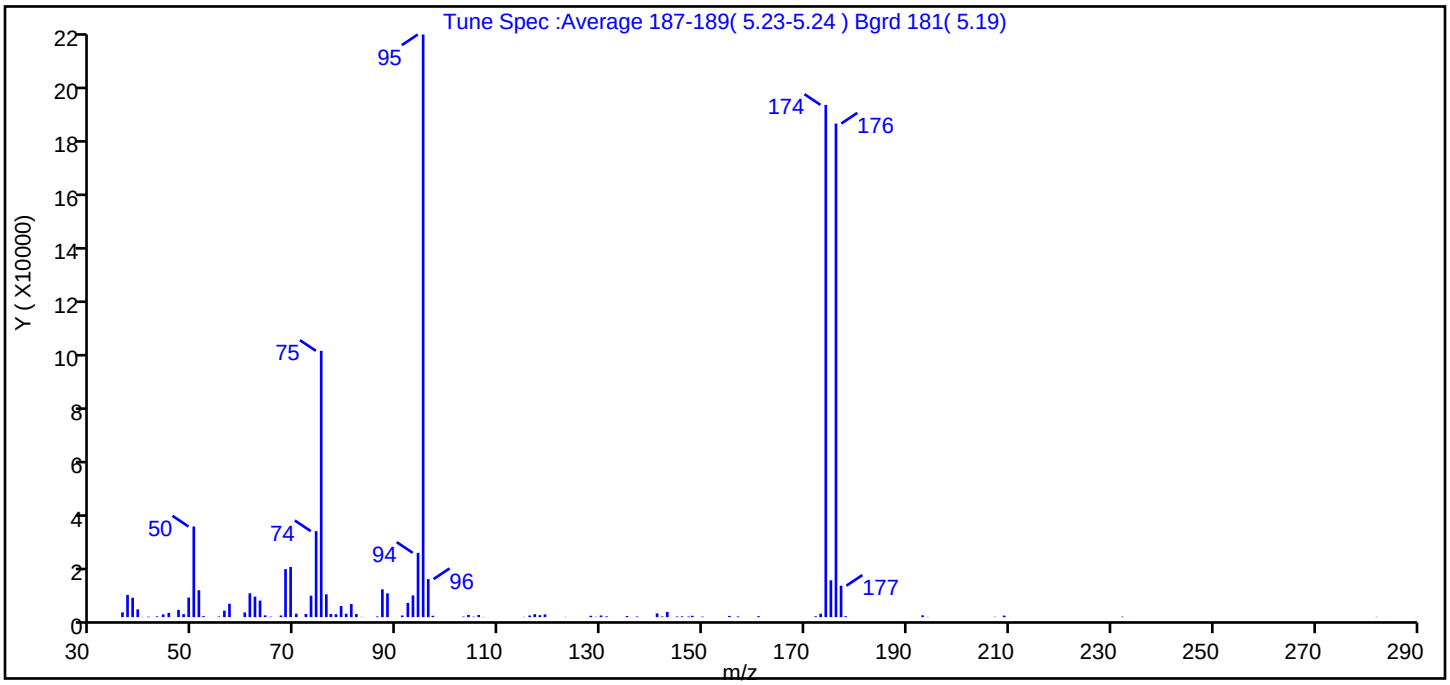
MSV_V_BFB_00005 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07T01.D
Injection Date: 07-Jul-2021 08:36:30 Instrument ID: 19094
Lims ID: BFB
Client ID:
Operator ID: SRK36897 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 165 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	45.7
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.6 (0.7)
174	50 to 120% of m/z 95	87.9
175	5 to 9% of m/z 174	6.3 (7.2)
176	Greater than 95% but less than 101% of m/z 174	84.7 (96.4)
177	5 to 9% of m/z 176	5.4 (6.4)

Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07T01.D\MSV_19094_25mL.rslt\spectra.d
Injection Date: 07-Jul-2021 08:36:30
Spectrum: Tune Spec :Average 187-189(5.23-5.24) Bgrd 181(5.19)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 92

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1811	65.00	173	94.00	24032	143.00	1957
37.00	8295	67.00	622	95.00	217728	145.00	250
38.00	7251	68.00	17960	96.00	14227	146.00	295
39.00	2918	69.00	18752	97.00	508	147.00	226
40.00	65	70.00	1292	103.00	200	148.00	518
41.00	187	72.00	1193	104.00	831	150.00	189
43.00	291	73.00	8031	105.00	154	155.00	464
44.00	1032	74.00	32136	106.00	798	157.00	272
45.00	1573	75.00	99512	107.00	92	161.00	351
47.00	2715	76.00	8535	115.00	106	172.00	310
48.00	1119	77.00	1184	116.00	597	173.00	1275
49.00	7319	78.00	1108	117.00	1122	174.00	191424
50.00	33872	79.00	4160	118.00	741	175.00	13761
51.00	10057	80.00	1275	119.00	1028	176.00	184448
52.00	383	81.00	4912	123.00	99	177.00	11745
55.00	235	82.00	1147	128.00	508	178.00	355
56.00	2398	83.00	89	129.00	133	191.00	9
57.00	5001	86.00	263	130.00	628	193.00	676
60.00	1758	87.00	10398	131.00	286	194.00	87
61.00	8912	88.00	8886	135.00	422	207.00	115
62.00	7670	91.00	618	137.00	233	209.00	584
63.00	6171	92.00	5324	141.00	1397	232.00	183
64.00	669	93.00	8116	142.00	250	282.00	100

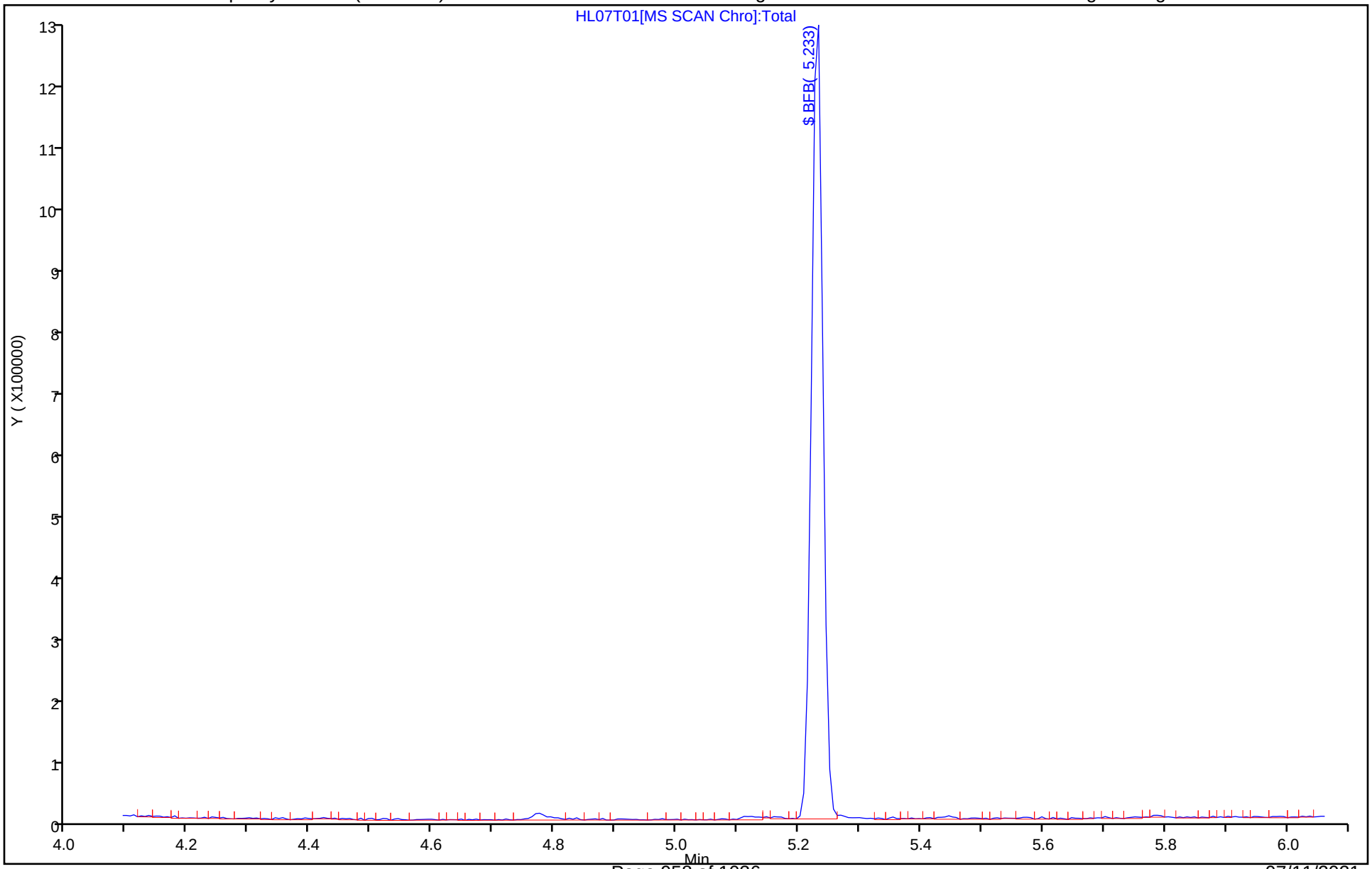
Report Date: 07-Jul-2021 17:05:16 Chrom Revision: 2.3 07-Jul-2021 12:11:26

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07T01.D

Injection Date:	07-Jul-2021 08:36:30	Instrument ID:	19094	Operator ID:	SRK36897
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-145209/7

Matrix: Water Lab File ID: CL06X06.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 11:43

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND		5.0	0.60
591-78-6	2-Hexanone	ND		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70
67-64-1	Acetone	ND		5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	ND		0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	ND		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-145209/7

Matrix: Water Lab File ID: CL06X06.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 11:43

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X06.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 06-Jul-2021 11:43:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033571-007
Misc. Info.: MB
Operator ID: SRK36897 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 14:18:17 Calib Date: 13-Apr-2021 23:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1667

First Level Reviewer: knouses Date: 06-Jul-2021 12:15:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85		1.885					ND	
1 Chlorodifluoromethane	51		1.898					ND	7
140 Dimethyl ether	45		1.965					ND	
3 Chloromethane	50		2.081					ND	
4 Butadiene	39		2.184					ND	7
5 Vinyl chloride	62		2.184					ND	
6 Bromomethane	94		2.495					ND	
7 Chloroethane	64		2.568					ND	
8 Dichlorofluoromethane	67		2.800					ND	
9 Trichlorofluoromethane	101		2.867					ND	
11 Ethyl ether	59		3.074					ND	
12 1,2-Dichloro-1,1,2-trifluoroetha	67		3.178					ND	
13 Acrolein	56		3.239					ND	7
14 1,1-Dichloroethene	96		3.373					ND	
16 Acetone	43		3.403					ND	7
15 112TCTFE	101		3.416					ND	
17 Iodomethane	142		3.556					ND	
18 Isopropyl alcohol	45	3.574	3.580	-0.006	1	308		0.1907	
19 Ethyl bromide	108		3.580					ND	
20 Carbon disulfide	76		3.684					ND	7
22 Methyl acetate	43		3.788					ND	
21 Acetonitrile	41		3.788					ND	7
23 3-Chloro-1-propene	41		3.812					ND	
24 Methylene Chloride	84		3.989					ND	
* 25 t-Butyl alcohol-d10 (IS)	65	4.044	4.044	0.000	95	147260	50.0	50.0	
26 2-Methyl-2-propanol	59		4.153					ND	
27 Acrylonitrile	53		4.324					ND	
28 Methyl tert-butyl ether	73		4.373					ND	
29 trans-1,2-Dichloroethene	96		4.379					ND	
30 Hexane	57		4.806					ND	
32 1,1-Dichloroethane	63		5.049					ND	

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
	31 Vinyl acetate	43		5.074					ND	
	33 Isopropyl ether	45		5.104					ND	
	34 2-Chloro-1,3-butadiene	53		5.159					ND	
	35 Tert-butyl ethyl ether	59		5.647					ND	7
	36 2-Butanone (MEK)	43		5.860					ND	
	37 cis-1,2-Dichloroethene	96		5.891					ND	
	38 2,2-Dichloropropane	77		5.903					ND	
	39 Ethyl acetate	43		5.952					ND	7
	40 Propionitrile	54		5.958					ND	
	41 Methyl acrylate	55		6.013					ND	
S	42 1,2-Dichloroethene, Total	100		6.155					ND	7
	43 Methacrylonitrile	67		6.165					ND	
	44 Chlorobromomethane	128		6.226					ND	
	45 Tetrahydrofuran	71		6.226					ND	
	46 Chloroform	83		6.378					ND	
$	47 Dibromofluoromethane (Surr)	113	6.586	6.598	-0.012	93	499131	10.0	9.70	
	48 1,1,1-Trichloroethane	97		6.598					ND	
	49 Cyclohexane	56		6.689					ND	
	145 1-Chlorobutane	56		6.781					ND	
	50 Carbon tetrachloride	117		6.805					ND	
	51 1,1-Dichloropropene	75		6.817					ND	
	52 Isobutyl alcohol	41		7.006					ND	
$	53 1,2-Dichloroethane-d4 (Surr)	102	7.049	7.055	-0.006	100	107965	10.0	10.2	
	54 Benzene	78		7.080					ND	
	55 1,2-Dichloroethane	62		7.159					ND	7
	152 Isopropyl acetate	43		7.195					ND	
	56 Tert-amyl methyl ether	73		7.275					ND	
*	57 Fluorobenzene (IS)	96	7.482	7.494	-0.012	98	2173456	10.0	10.0	
	58 n-Heptane	43		7.500					ND	7
	59 n-Butanol	56		7.896					ND	
	60 Trichloroethene	95		7.976					ND	
	61 Methylcyclohexane	83		8.274					ND	
	62 1,2-Dichloropropane	63		8.305					ND	
	63 2-ethoxy-2-methyl butane	87		8.323					ND	
	64 Methyl methacrylate	69		8.402					ND	
	66 Dibromomethane	93		8.421					ND	
	65 1,4-Dioxane	88		8.433					ND	
	160 n-Propyl acetate	61		8.518					ND	
	67 Dichlorobromomethane	83		8.665					ND	
	68 2-Nitropropane	41		8.945					ND	
	71 1-Bromo-2-chloroethane	63		9.061					ND	
	69 2-Chloroethyl vinyl ether	63		9.061					ND	
	70 Chloroacetonitrile	75		9.067					ND	
	72 cis-1,3-Dichloropropene	75		9.225					ND	
	73 4-Methyl-2-pentanone (MIBK)	43		9.414					ND	7
$	74 Toluene-d8 (Surr)	98	9.543	9.542	0.001	95	2193593	10.0	10.1	
	75 Toluene	92		9.622					ND	7
	76 trans-1,3-Dichloropropene	75		9.896					ND	
	78 Ethyl methacrylate	69		9.963					ND	
S	77 1,3-Dichloropropene, Total	100		10.060					ND	7
	79 1,1,2-Trichloroethane	97		10.103					ND	
	80 Tetrachloroethene	166		10.189					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
81 1,3-Dichloropropane	76		10.274					ND	
82 2-Hexanone	43		10.335					ND	
161 n-Butyl acetate	43		10.475					ND	
83 Chlorodibromomethane	129		10.487					ND	
84 Ethylene Dibromide	107		10.597					ND	
* 85 Chlorobenzene-d5 (IS)	117	11.042	11.042	0.000	88	1628361	10.0	10.0	
86 1-Chlorohexane	91		11.054					ND	7
87 Chlorobenzene	112		11.067					ND	
89 1,1,1,2-Tetrachloroethane	131		11.152					ND	
90 Ethylbenzene	91		11.158					ND	
S 88 Xylenes, Total	106		11.245					ND	7
91 m-Xylene & p-Xylene	106		11.274					ND	
92 o-Xylene	106		11.609					ND	
93 Styrene	104		11.627					ND	
94 Bromoform	173		11.786					ND	
95 Isopropylbenzene	105		11.920					ND	
96 cis-1,4-Dichloro-2-butene	88		11.987					ND	
97 Cyclohexanone	55		12.018					ND	
$ 98 4-Bromofluorobenzene (Surr)	95	12.060	12.060	0.000	87	823922	10.0	9.88	
99 1,1,2,2-Tetrachloroethane	83		12.170					ND	
100 Bromobenzene	156		12.182					ND	
101 trans-1,4-Dichloro-2-butene	53		12.201					ND	
102 1,2,3-Trichloropropane	110		12.219					ND	
103 N-Propylbenzene	91		12.249					ND	
104 2-Chlorotoluene	126		12.329					ND	
105 1,3,5-Trimethylbenzene	105		12.389					ND	
106 4-Chlorotoluene	126		12.420					ND	7
107 tert-Butylbenzene	134		12.633					ND	
108 Pentachloroethane	167		12.664					ND	
109 1,2,4-Trimethylbenzene	105		12.676					ND	
110 sec-Butylbenzene	105		12.804					ND	
111 1,3-Dichlorobenzene	146		12.902					ND	7
112 4-Isopropyltoluene	119		12.908					ND	7
* 113 1,4-Dichlorobenzene-d4	152	12.956	12.956	0.000	96	907110	10.0	10.0	
114 1,4-Dichlorobenzene	146		12.975					ND	7
115 1,2,3-Trimethylbenzene	120		12.987					ND	7
116 Benzyl chloride	126		13.054					ND	7
119 n-Butylbenzene	92		13.206					ND	7
120 1,2-Dichlorobenzene	146		13.237					ND	
118 p-Diethylbenzene	119	13.280	13.261	0.019	1	139		0.000892	
122 Hexachloroethane	117		13.444					ND	
123 1,2-Dibromo-3-Chloropropane	155		13.792					ND	
124 1,3,5-Trichlorobenzene	180		13.914					ND	7
125 1,2,4-Trichlorobenzene	180		14.340					ND	7
126 Hexachlorobutadiene	225		14.426					ND	7
127 Naphthalene	128		14.523					ND	7
128 1,2,3-Trichlorobenzene	180		14.670					ND	7
129 2-Methylnaphthalene	142		15.291					ND	U
130 Dodecane	57		0.000					ND	
138 n-Decane	57		0.000					ND	
220 Acetonitrile TIC	1		0.000					ND	
162 Ethanol	45		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
158 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
157 t-Amyl alcohol	1		0.000					ND	
151 Propene oxide	1		0.000					ND	
221 Isopropyl alcohol TIC	1		0.000					ND	
149 Chlorotrifluoroethene	1		0.000					ND	
142 1-Bromo-3-Chloropropane	1		0.000					ND	
136 Methylal	1		0.000					ND	
226 1,1-Dichloroacetone	1		0.000					ND	
133 1-Chloropropane	1		0.000					ND	
131 2-Bromo-1-chloropropane	1		0.000					ND	
159 tert-Butyl Formate	1		0.000					ND	
155 2-Chloro-1,1,1-Trifluoroethane	1		0.000					ND	
222 Vinyl acetate (TIC)	1		0.000					ND	
223 1,3-Dichloro-2-propanol TIC	1		0.000					ND	
224 Propargyl alcohol TIC	1		0.000					ND	
225 Pentane	43		0.000					ND	
227 Pentachloroethane TIC	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_HP25_ISSS_00029 Amount Added: 1.00 Units: uL Run Reagent

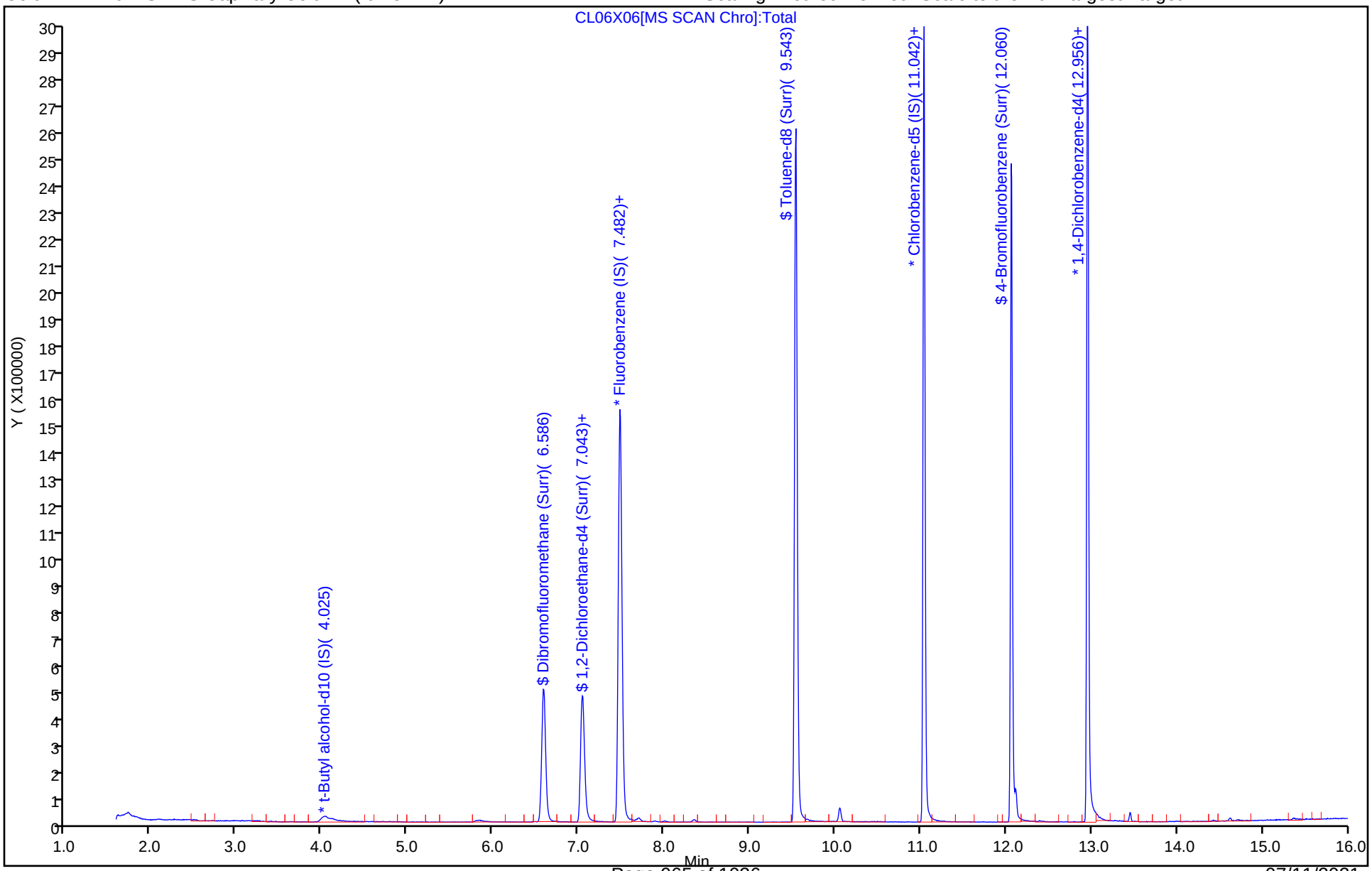
Report Date: 06-Jul-2021 14:18:39 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X06.D

Injection Date:	06-Jul-2021 11:43:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X06.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	06-Jul-2021 11:43:30	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0033571-007				
Misc. Info.:	MB				
Operator ID:	SRK36897	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Jul-2021 14:18:17	Calib Date:	13-Apr-2021 23:14:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1667				
First Level Reviewer: knouses		Date:	06-Jul-2021 12:15:14		

Compound	Amount Added	Amount Recovered	% Rec.
$ 47 Dibromofluoromethane (Surr)	10.0	9.70	96.99
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	101.86
$ 74 Toluene-d8 (Surr)	10.0	10.1	100.70
$ 98 4-Bromofluorobenzene (Surr)	10.0	9.88	98.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-145644/7

Matrix: Water Lab File ID: HL07X06.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 07/07/2021 10:36

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145644 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND		5.0	0.60
591-78-6	2-Hexanone	ND		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70
67-64-1	Acetone	ND		5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	ND		0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	ND		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-145644/7

Matrix: Water Lab File ID: HL07X06.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 07/07/2021 10:36

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145644 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X06.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 07-Jul-2021 10:36:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033672-007
Misc. Info.: RB
Operator ID: SRK36897 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2021 17:04:30 Calib Date: 30-Jun-2021 20:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: knouses Date: 07-Jul-2021 11:04:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.885					ND	
3 Dichlorodifluoromethane	85		1.989					ND	
4 Dimethyl ether	45		2.074					ND	
2 Chlorodifluoromethane	51		2.093					ND	
6 Chloromethane	50		2.190					ND	
5 2-Chloro-1,1,1-Trifluoroethane	118		2.233					ND	
8 Butadiene	39		2.306					ND	7
7 Vinyl chloride	62		2.312					ND	
9 Bromomethane	94		2.635					ND	
10 Chloroethane	64		2.727					ND	
11 Dichlorofluoromethane	67		2.971					ND	
13 Trichlorofluoromethane	101		3.044					ND	
12 Ethanol	45		3.111					ND	
15 Ethyl ether	59		3.276					ND	
16 1,2-Dichloro-1,1,2-trifluoroetha	67		3.367					ND	
17 Acrolein	56		3.440					ND	
18 1,1-Dichloroethene	96		3.593					ND	
19 Acetone	43		3.617					ND	7
20 112TCTFE	101		3.635					ND	
21 Isopropyl alcohol	45		3.769					ND	
22 Iodomethane	142		3.800					ND	
23 Ethyl bromide	108		3.818					ND	
24 Carbon disulfide	76		3.916					ND	7
25 Acetonitrile	41		4.013					ND	
26 Methyl acetate	43		4.038					ND	
27 3-Chloro-1-propene	41		4.068					ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	4.251	4.245	0.006	87	135568	50.0	50.0	
29 Methylene Chloride	84		4.257					ND	
30 2-Methyl-2-propanol	59		4.373					ND	
31 Acrylonitrile	53		4.586					ND	
32 Methyl tert-butyl ether	73		4.672					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 trans-1,2-Dichloroethene	96		4.684					ND	
34 Hexane	57		5.111					ND	
36 Vinyl acetate	43		5.330					ND	
35 1,1-Dichloroethane	63		5.336					ND	
37 Isopropyl ether	45		5.391					ND	
38 2-Chloro-1,3-butadiene	53		5.452					ND	
39 Tert-butyl ethyl ether	59		5.927					ND	
41 2-Butanone (MEK)	43		6.123					ND	
S 40 1,2-Dichloroethene, Total	100		6.155					ND	7
42 cis-1,2-Dichloroethene	96		6.171					ND	
43 2,2-Dichloropropane	77		6.190					ND	
44 Ethyl acetate	43		6.208					ND	
45 Propionitrile	54		6.214					ND	
47 Methacrylonitrile	67		6.433					ND	
46 Methyl acrylate	55		6.482					ND	
48 Chlorobromomethane	128		6.507					ND	
49 Tetrahydrofuran	71		6.513					ND	
50 Chloroform	83		6.653					ND	
$ 51 Dibromofluoromethane (Surr)	113	6.872	6.866	0.006	94	458898	10.0	10.4	
52 1,1,1-Trichloroethane	97		6.885					ND	
53 Cyclohexane	56		6.994					ND	
55 1,1-Dichloropropene	75		7.098					ND	
56 Carbon tetrachloride	117		7.098					ND	
57 Isobutyl alcohol	41		7.232					ND	
54 1-Chlorobutane	56		7.250					ND	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.329	7.324	0.005	46	89127	10.0	9.98	
59 Benzene	78		7.360					ND	
60 1,2-Dichloroethane	62		7.433					ND	7
61 Isopropyl acetate	43		7.439					ND	
62 Tert-amyl methyl ether	73		7.549					ND	
* 65 Fluorobenzene (IS)	96	7.768	7.769	-0.001	99	1828061	10.0	10.0	
64 n-Heptane	43	7.787	7.781	0.006	36	3319		0.0364	
63 t-Amyl alcohol	73	7.829	7.842	-0.013	1	100		NC	
66 n-Butanol	56		8.110					ND	
67 Trichloroethene	95		8.250					ND	
68 Methylcyclohexane	83		8.561					ND	
70 1,2-Dichloropropane	63		8.579					ND	
69 2-ethoxy-2-methyl butane	87		8.585					ND	
71 Methyl methacrylate	69		8.659					ND	
72 1,4-Dioxane	88		8.665					ND	
73 Dibromomethane	93		8.695					ND	
74 n-Propyl acetate	61		8.750					ND	
75 Dichlorobromomethane	83		8.927					ND	
76 2-Nitropropane	41		9.189					ND	
78 2-Chloroethyl vinyl ether	63		9.299					ND	
79 1-Bromo-2-chloroethane	63		9.323					ND	
77 Chloroacetonitrile	75		9.427					ND	
80 cis-1,3-Dichloropropene	75		9.469					ND	
81 4-Methyl-2-pentanone (MIBK)	43		9.640					ND	7
$ 82 Toluene-d8 (Surr)	98	9.780	9.780	0.000	93	1859724	10.0	9.55	
83 Toluene	92		9.854					ND	
S 84 1,3-Dichloropropene, Total	100		10.060					ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75		10.110					ND	
86 Ethyl methacrylate	69		10.164					ND	
87 1,1,2-Trichloroethane	97		10.311					ND	
88 Tetrachloroethene	166		10.402					ND	
89 1,3-Dichloropropane	76		10.475					ND	
91 2-Hexanone	43		10.524					ND	7
92 n-Butyl acetate	43		10.646					ND	
93 Chlorodibromomethane	129		10.689					ND	
94 Ethylene Dibromide	107		10.805					ND	
* 97 Chlorobenzene-d5 (IS)	117	11.231	11.231	0.000	85	1449416	10.0	10.0	
96 1-Chlorohexane	91		11.237					ND	7
S 95 Xylenes, Total	106		11.245					ND	7
98 Chlorobenzene	112		11.262					ND	7
99 1,1,1,2-Tetrachloroethane	131		11.341					ND	
100 Ethylbenzene	91		11.347					ND	7
101 m-Xylene & p-Xylene	106		11.457					ND	7
102 o-Xylene	106		11.786					ND	
103 Styrene	104		11.804					ND	7
104 Bromoform	173		11.963					ND	
105 Isopropylbenzene	105		12.091					ND	7
106 cis-1,4-Dichloro-2-butene	88		12.133					ND	U
107 Cyclohexanone	55		12.170					ND	
$ 108 4-Bromofluorobenzene (Surr)	95	12.231	12.231	0.000	90	699617	10.0	9.84	
109 1,1,2,2-Tetrachloroethane	83		12.329					ND	
111 Bromobenzene	156		12.353					ND	
110 trans-1,4-Dichloro-2-butene	53		12.353					ND	
112 1,2,3-Trichloropropane	110		12.377					ND	
113 N-Propylbenzene	91		12.414					ND	7
114 2-Chlorotoluene	126		12.493					ND	
115 1,3,5-Trimethylbenzene	105		12.554					ND	7
116 4-Chlorotoluene	126		12.585					ND	
118 tert-Butylbenzene	134		12.792					ND	
119 Pentachloroethane	167		12.829					ND	
120 1,2,4-Trimethylbenzene	105		12.835					ND	7
121 sec-Butylbenzene	105		12.957					ND	7
122 1,3-Dichlorobenzene	146		13.060					ND	7
123 4-Isopropyltoluene	119		13.066					ND	7
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	95	798899	10.0	10.0	
125 1,4-Dichlorobenzene	146		13.133					ND	7
126 1,2,3-Trimethylbenzene	120		13.139					ND	7
127 Benzyl chloride	126		13.207					ND	
130 n-Butylbenzene	92		13.359					ND	7
131 1,2-Dichlorobenzene	146		13.389					ND	
129 p-Diethylbenzene	119		13.408					ND	U
133 Hexachloroethane	201		13.682					ND	
134 1,2-Dibromo-3-Chloropropane	155		13.932					ND	
135 1,3,5-Trichlorobenzene	180		14.060					ND	7
136 1,2,4-Trichlorobenzene	180		14.481					ND	7
137 Hexachlorobutadiene	225	14.560	14.566	-0.006	91	2725		0.0768	
138 Naphthalene	128		14.664					ND	7
139 1,2,3-Trichlorobenzene	180	14.804	14.804	0.000	89	2714		0.0404	
140 2-Methylnaphthalene	142	15.444	15.438	0.006	88	6149		0.0710	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
151 tert-Butyl Formate	1		0.000					ND	
152 Dodecane	57		0.000					ND	
157 Methylal	1		0.000					ND	
142 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
150 Propene oxide	1		0.000					ND	
162 1-Chloropropane	1		0.000					ND	
163 1-Bromo-3-Chloropropane	1		0.000					ND	
160 n-Decane	57		0.000					ND	
161 2-Bromo-1-chloropropane	1		0.000					ND	
186 Isopropyl alcohol TIC	1		0.000					ND	

QC Flag Legend

Processing Flags
NC - Not Calibrated
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

MSV_LLcentISS_00001 Amount Added: 5.00 Units: uL Run Reagent

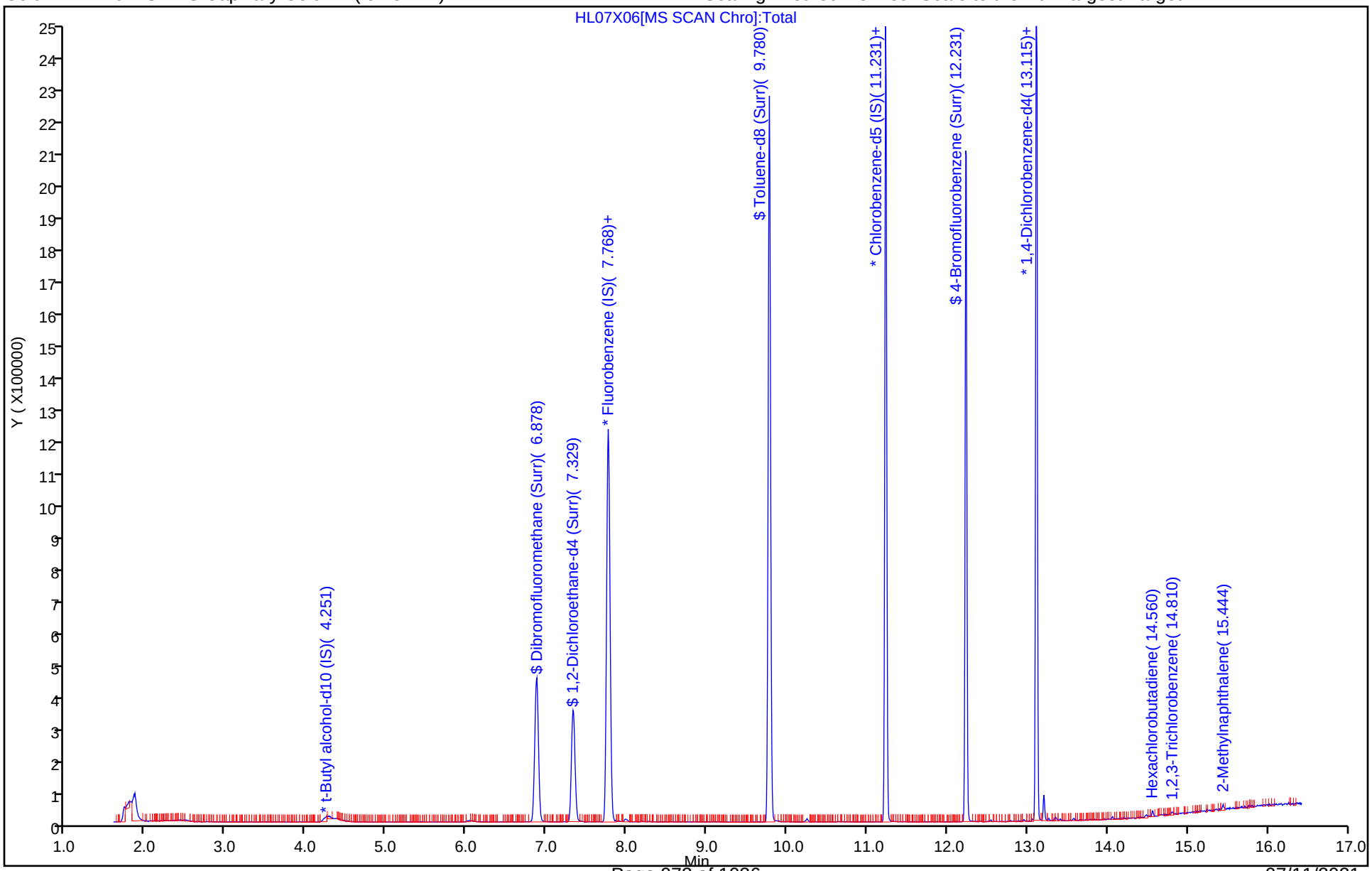
Report Date: 07-Jul-2021 17:04:52 Chrom Revision: 2.3 07-Jul-2021 12:11:26

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X06.D

Injection Date:	07-Jul-2021 10:36:30	Instrument ID:	19094	Operator ID:	SRK36897
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X06.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	07-Jul-2021 10:36:30	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0033672-007				
Misc. Info.:	RB				
Operator ID:	SRK36897	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Jul-2021 17:04:30	Calib Date:	30-Jun-2021 20:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1651				

First Level Reviewer: knouses Date: 07-Jul-2021 11:04:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 51 Dibromofluoromethane (Surr)	10.0	10.4	103.76
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.98	99.80
$ 82 Toluene-d8 (Surr)	10.0	9.55	95.49
$ 108 4-Bromofluorobenzene (Surr)	10.0	9.84	98.44

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-145209/4

Matrix: Water Lab File ID: CL06X07.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 12:06

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.95		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.04		0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	5.21		0.50	0.070
79-00-5	1,1,2-Trichloroethane	5.24		0.50	0.060
75-34-3	1,1-Dichloroethane	5.44		0.50	0.070
75-35-4	1,1-Dichloroethene	5.45		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	5.04		0.50	0.060
107-06-2	1,2-Dichloroethane	5.09		0.50	0.050
78-87-5	1,2-Dichloropropane	5.74		0.50	0.060
78-93-3	2-Butanone (MEK)	84.7		5.0	0.60
591-78-6	2-Hexanone	82.8		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	82.3		5.0	0.70
67-64-1	Acetone	60.7		5.0	0.90
71-43-2	Benzene	5.41		0.50	0.050
74-97-5	Bromochloromethane	5.01		0.50	0.050
75-27-4	Bromodichloromethane	5.40		0.50	0.050
75-25-2	Bromoform	5.49		1.0	0.30
74-83-9	Bromomethane	5.42		0.50	0.070
75-15-0	Carbon disulfide	5.79		1.0	0.060
56-23-5	Carbon tetrachloride	4.98		0.50	0.070
108-90-7	Chlorobenzene	5.02		0.50	0.060
75-00-3	Chloroethane	5.64		0.50	0.070
67-66-3	Chloroform	5.20		0.50	0.090
74-87-3	Chloromethane	6.76		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	5.22		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	5.39		0.50	0.050
124-48-1	Dibromochloromethane	5.35		0.50	0.070
100-41-4	Ethylbenzene	5.22		0.50	0.060
1634-04-4	Methyl tert-butyl ether	5.10		0.50	0.050
75-09-2	Methylene Chloride	5.53		0.50	0.070
100-42-5	Styrene	5.21		0.50	0.050
127-18-4	Tetrachloroethene	4.90		0.50	0.060
108-88-3	Toluene	5.18		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	5.26		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	5.49		0.50	0.060
79-01-6	Trichloroethene	5.15		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-145209/4

Matrix: Water Lab File ID: CL06X07.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 12:06

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	6.71		0.50	0.10
1330-20-7	Xylenes, Total	15.5		1.0	0.15

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)	98		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X07.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 06-Jul-2021 12:06:30 ALS Bottle#: 7 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033571-004
Misc. Info.: LCS
Operator ID: SRK36897 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 14:18:17 Calib Date: 13-Apr-2021 23:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1667

First Level Reviewer: knouses Date: 06-Jul-2021 12:51:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.873	1.885	-0.012	99	367389	5.00	6.33	
3 Chloromethane	50	2.068	2.081	-0.013	99	484992	5.00	6.76	
4 Butadiene	39	2.172	2.184	-0.012	97	518562	5.00	6.59	
5 Vinyl chloride	62	2.172	2.184	-0.012	83	439772	5.00	6.71	
6 Bromomethane	94	2.489	2.495	-0.006	91	255328	5.00	5.42	
7 Chloroethane	64	2.556	2.568	-0.012	99	241836	5.00	5.64	
8 Dichlorofluoromethane	67	2.794	2.800	-0.006	98	588236	5.00	5.95	
9 Trichlorofluoromethane	101	2.855	2.867	-0.012	98	464405	5.00	5.20	M
11 Ethyl ether	59	3.062	3.074	-0.012	96	250063	5.02	5.16	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.166	3.178	-0.012	96	367619	5.00	5.25	
14 1,1-Dichloroethene	96	3.367	3.373	-0.006	95	274953	5.00	5.45	
16 Acetone	43	3.391	3.403	-0.012	99	462282	62.5	60.7	
15 112TCTFE	101	3.397	3.416	-0.019	94	275806	5.00	5.03	
17 Iodomethane	142	3.550	3.556	-0.006	99	477024	5.00	4.84	
18 Isopropyl alcohol	45	3.580	3.580	0.000	34	63027	37.5	34.8	
19 Ethyl bromide	108	3.568	3.580	-0.012	99	239893	5.07	5.68	
20 Carbon disulfide	76	3.672	3.684	-0.012	100	996162	5.00	5.79	
22 Methyl acetate	43	3.788	3.788	0.000	98	125542	5.00	7.52	M
23 3-Chloro-1-propene	41	3.800	3.812	-0.012	90	608062	5.00	6.52	
24 Methylene Chloride	84	3.977	3.989	-0.012	98	312904	5.00	5.53	
* 25 t-Butyl alcohol-d10 (IS)	65	4.007	4.044	-0.037	94	164901	50.0	50.0	
26 2-Methyl-2-propanol	59	4.135	4.153	-0.018	98	150715	50.0	51.1	
27 Acrylonitrile	53	4.312	4.324	-0.012	99	349739	25.0	32.3	
28 Methyl tert-butyl ether	73	4.361	4.373	-0.012	89	847815	5.00	5.10	
29 trans-1,2-Dichloroethene	96	4.367	4.379	-0.012	95	304252	5.00	5.26	
30 Hexane	57	4.793	4.806	-0.013	96	508660	5.00	5.56	
32 1,1-Dichloroethane	63	5.037	5.049	-0.012	96	596279	5.00	5.44	
33 Isopropyl ether	45	5.098	5.104	-0.006	95	1238034	5.00	6.01	
34 2-Chloro-1,3-butadiene	53	5.147	5.159	-0.012	93	546805	5.00	5.50	
35 Tert-butyl ethyl ether	59	5.635	5.647	-0.012	98	1073682	5.00	5.35	
36 2-Butanone (MEK)	43	5.848	5.860	-0.012	99	1311893	62.5	84.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 cis-1,2-Dichloroethene	96	5.879	5.891	-0.012	85	339493	5.00	5.22	
38 2,2-Dichloropropane	77	5.903	5.903	0.000	90	473934	5.00	5.33	a
40 Propionitrile	54	5.952	5.958	-0.006	98	167392	37.5	41.0	
43 Methacrylonitrile	67	6.159	6.165	-0.006	95	679652	37.5	44.5	
44 Chlorobromomethane	128	6.214	6.226	-0.012	94	144790	5.00	5.01	
45 Tetrahydrofuran	71	6.220	6.226	-0.006	83	130794	25.0	29.3	
46 Chloroform	83	6.372	6.378	-0.006	95	544345	5.00	5.20	
$ 47 Dibromofluoromethane (Surr)	113	6.592	6.598	-0.006	93	507315	10.0	9.75	
48 1,1,1-Trichloroethane	97	6.592	6.598	-0.006	90	463997	5.00	5.04	
49 Cyclohexane	56	6.683	6.689	-0.006	95	621098	5.00	5.64	
50 Carbon tetrachloride	117	6.805	6.805	0.000	96	382870	5.00	4.98	
51 1,1-Dichloropropene	75	6.805	6.817	-0.012	95	455974	5.00	5.33	
52 Isobutyl alcohol	41	7.006	7.006	0.000	93	141331	125.0	129.1	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.043	7.055	-0.012	99	110304	10.0	10.3	
54 Benzene	78	7.074	7.080	-0.006	97	1343080	5.00	5.41	
55 1,2-Dichloroethane	62	7.147	7.159	-0.012	97	376144	5.00	5.09	
56 Tert-amyl methyl ether	73	7.269	7.275	-0.006	96	905703	5.00	5.07	
* 57 Fluorobenzene (IS)	96	7.482	7.494	-0.012	98	2196716	10.0	10.0	
58 n-Heptane	43	7.494	7.500	-0.006	95	610164	5.00	6.07	
59 n-Butanol	56	7.903	7.896	0.007	93	205165	250.0	235.9	
60 Trichloroethene	95	7.964	7.976	-0.012	98	323756	5.00	5.15	
61 Methylcyclohexane	83	8.274	8.274	0.000	94	595974	5.00	5.30	
62 1,2-Dichloropropane	63	8.305	8.305	0.000	95	367739	5.00	5.74	
63 2-ethoxy-2-methyl butane	87	8.317	8.323	-0.006	89	487739	5.00	4.90	
64 Methyl methacrylate	69	8.403	8.402	0.000	94	170925	5.00	5.53	
66 Dibromomethane	93	8.415	8.421	-0.006	97	157948	5.00	5.28	
65 1,4-Dioxane	88	8.427	8.433	-0.006	29	20766	125.0	104.4	M
67 Dichlorobromomethane	83	8.659	8.665	-0.006	98	400653	5.00	5.40	
68 2-Nitropropane	41	8.945	8.945	0.000	97	48792	5.00	4.83	
71 1-Bromo-2-chloroethane	63	9.055	9.061	-0.006	99	367028	5.00	6.02	
72 cis-1,3-Dichloropropene	75	9.226	9.225	0.001	93	516881	5.00	5.39	
73 4-Methyl-2-pentanone (MIBK)	43	9.415	9.414	0.000	99	3507061	62.5	82.3	
$ 74 Toluene-d8 (Surr)	98	9.536	9.542	-0.006	94	2231267	10.0	10.1	
75 Toluene	92	9.616	9.622	-0.006	98	833762	5.00	5.18	
76 trans-1,3-Dichloropropene	75	9.896	9.896	0.000	96	450310	5.00	5.49	
78 Ethyl methacrylate	69	9.963	9.963	0.000	93	361383	5.00	5.19	
79 1,1,2-Trichloroethane	97	10.103	10.103	0.000	91	234867	5.00	5.24	
80 Tetrachloroethene	166	10.183	10.189	-0.006	97	334823	5.00	4.90	
81 1,3-Dichloropropane	76	10.268	10.274	-0.006	95	427832	5.00	5.35	
82 2-Hexanone	43	10.329	10.335	-0.006	99	2580997	62.5	82.8	
83 Chlorodibromomethane	129	10.487	10.487	0.000	91	269562	5.00	5.35	
84 Ethylene Dibromide	107	10.597	10.597	0.000	98	217857	5.00	5.04	
* 85 Chlorobenzene-d5 (IS)	117	11.042	11.042	0.000	88	1649699	10.0	10.0	
86 1-Chlorohexane	91	11.054	11.054	0.000	93	456295	5.00	4.92	
87 Chlorobenzene	112	11.067	11.067	0.000	93	912870	5.00	5.02	
89 1,1,1,2-Tetrachloroethane	131	11.152	11.152	0.000	94	300282	5.00	4.95	
90 Ethylbenzene	91	11.158	11.158	0.000	99	1640496	5.00	5.22	
91 m-Xylene & p-Xylene	106	11.274	11.274	0.000	98	1261688	10.0	10.4	
92 o-Xylene	106	11.609	11.609	0.000	97	616941	5.00	5.09	
93 Styrene	104	11.627	11.627	0.000	95	1055723	5.00	5.21	
94 Bromoform	173	11.786	11.786	0.000	96	157337	5.00	5.49	
95 Isopropylbenzene	105	11.914	11.920	-0.006	97	1624312	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
$ 98 4-Bromofluorobenzene (Surr)	95	12.060	12.060	0.000	87	840775	10.0	9.95	
99 1,1,2,2-Tetrachloroethane	83	12.170	12.170	0.000	94	310585	5.00	5.21	
100 Bromobenzene	156	12.176	12.182	-0.006	97	387536	5.00	4.83	
101 trans-1,4-Dichloro-2-butene	53	12.194	12.201	-0.006	92	430269	25.0	24.7	
102 1,2,3-Trichloropropane	110	12.219	12.219	0.000	84	77232	5.00	4.79	
103 N-Propylbenzene	91	12.249	12.249	0.000	99	1981363	5.00	5.10	
104 2-Chlorotoluene	126	12.329	12.329	0.000	96	384334	5.00	4.78	
105 1,3,5-Trimethylbenzene	105	12.390	12.389	0.001	94	1401158	5.00	4.92	
106 4-Chlorotoluene	126	12.420	12.420	0.000	98	403784	5.00	4.80	
107 tert-Butylbenzene	134	12.633	12.633	0.000	94	279136	5.00	4.54	
109 1,2,4-Trimethylbenzene	105	12.676	12.676	0.000	98	1444294	5.00	4.91	
110 sec-Butylbenzene	105	12.798	12.804	-0.006	95	1828528	5.00	5.01	
111 1,3-Dichlorobenzene	146	12.902	12.902	0.000	97	766391	5.00	4.83	
112 4-Isopropyltoluene	119	12.908	12.908	0.000	97	1579134	5.00	4.98	
* 113 1,4-Dichlorobenzene-d4	152	12.957	12.956	0.000	95	943292	10.0	10.0	
114 1,4-Dichlorobenzene	146	12.975	12.975	0.000	94	781309	5.00	4.80	
115 1,2,3-Trimethylbenzene	120	12.987	12.987	0.000	99	632356	5.00	4.83	
116 Benzyl chloride	126	13.054	13.054	0.000	99	118534	5.00	5.33	
119 n-Butylbenzene	92	13.206	13.206	0.000	97	813257	5.00	5.03	
120 1,2-Dichlorobenzene	146	13.237	13.237	0.000	97	725611	5.00	4.86	
118 p-Diethylbenzene	119	13.255	13.261	-0.006	86	778134	5.00	4.80	
123 1,2-Dibromo-3-Chloropropane	155	13.792	13.792	0.000	80	37975	5.00	4.61	
124 1,3,5-Trichlorobenzene	180	13.914	13.914	0.000	97	632402	5.00	4.86	
125 1,2,4-Trichlorobenzene	180	14.340	14.340	0.000	94	557341	5.00	4.77	
126 Hexachlorobutadiene	225	14.426	14.426	0.000	98	279675	5.00	5.04	
127 Naphthalene	128	14.523	14.523	0.000	97	945216	5.00	4.49	
128 1,2,3-Trichlorobenzene	180	14.670	14.670	0.000	95	464068	5.00	4.47	
129 2-Methylnaphthalene	142	15.291	15.291	0.000	92	454635	5.00	3.12	
225 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_Q_ETBR_00008	Amount Added:	12.50	Units: uL	
MSV_Q_EE_00004	Amount Added:	12.50	Units: uL	
MSV_LCS_VOC#1_00008	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00011	Amount Added:	12.50	Units: uL	
MSV_HP25_ISSS_00029	Amount Added:	1.00	Units: uL	Run Reagent

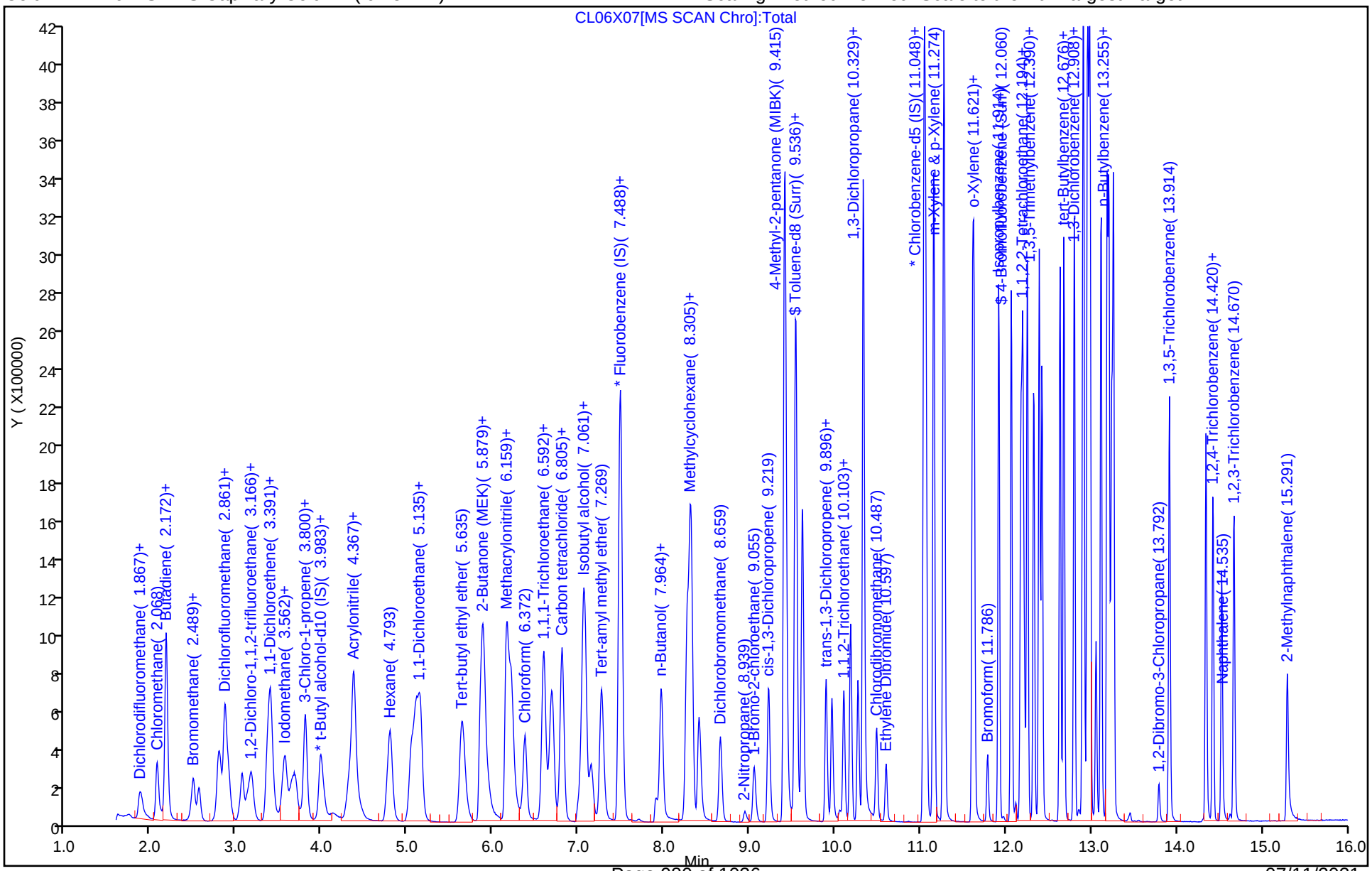
Report Date: 06-Jul-2021 14:18:24 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X07.D

Injection Date:	06-Jul-2021 12:06:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X07.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 06-Jul-2021 12:06:30 ALS Bottle#: 7 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033571-004
Misc. Info.: LCS
Operator ID: SRK36897 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 14:18:17 Calib Date: 13-Apr-2021 23:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1667

First Level Reviewer: knouses Date: 06-Jul-2021 12:51:21

Compound	Amount Added	Amount Recovered	% Rec.
$ 47 Dibromofluoromethane (Surr)	10.0	9.75	97.54
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	102.97
$ 74 Toluene-d8 (Surr)	10.0	10.1	101.10
$ 98 4-Bromofluorobenzene (Surr)	10.0	9.95	99.47

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-145644/4

Matrix: Water Lab File ID: HL07X03.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 07/07/2021 09:34

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145644 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.07		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.34		0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	4.87		0.50	0.070
79-00-5	1,1,2-Trichloroethane	5.17		0.50	0.060
75-34-3	1,1-Dichloroethane	5.12		0.50	0.070
75-35-4	1,1-Dichloroethene	5.34		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	5.07		0.50	0.060
107-06-2	1,2-Dichloroethane	5.33		0.50	0.050
78-87-5	1,2-Dichloropropane	5.25		0.50	0.060
78-93-3	2-Butanone (MEK)	53.6		5.0	0.60
591-78-6	2-Hexanone	56.0		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	54.0		5.0	0.70
67-64-1	Acetone	46.4		5.0	0.90
71-43-2	Benzene	5.26		0.50	0.050
74-97-5	Bromochloromethane	5.68		0.50	0.050
75-27-4	Bromodichloromethane	5.51		0.50	0.050
75-25-2	Bromoform	5.49		1.0	0.30
74-83-9	Bromomethane	5.00		0.50	0.070
75-15-0	Carbon disulfide	5.01		1.0	0.060
56-23-5	Carbon tetrachloride	5.46		0.50	0.070
108-90-7	Chlorobenzene	4.98		0.50	0.060
75-00-3	Chloroethane	4.85		0.50	0.070
67-66-3	Chloroform	5.35		0.50	0.090
74-87-3	Chloromethane	4.90		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	5.35		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	5.28		0.50	0.050
124-48-1	Dibromochloromethane	5.08		0.50	0.070
100-41-4	Ethylbenzene	4.92		0.50	0.060
1634-04-4	Methyl tert-butyl ether	5.04		0.50	0.050
75-09-2	Methylene Chloride	5.34		0.50	0.070
100-42-5	Styrene	5.14		0.50	0.050
127-18-4	Tetrachloroethene	4.91		0.50	0.060
108-88-3	Toluene	4.82		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	5.27		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	5.18		0.50	0.060
79-01-6	Trichloroethene	5.22		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-145644/4

Matrix: Water Lab File ID: HL07X03.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 07/07/2021 09:34

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145644 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	4.83		0.50	0.10
1330-20-7	Xylenes, Total	15.1		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 07-Jul-2021 09:34:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033672-004
Misc. Info.: LCS
Operator ID: SRK36897 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2021 17:04:30 Calib Date: 30-Jun-2021 20:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: knouses Date: 07-Jul-2021 10:23:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	2.001	1.989	0.012	99	307278	5.00	5.77	
6 Chloromethane	50	2.203	2.190	0.013	99	315692	5.00	4.90	
8 Butadiene	39	2.318	2.306	0.012	90	275062	5.00	4.61	
7 Vinyl chloride	62	2.324	2.312	0.012	94	314389	5.00	4.83	
9 Bromomethane	94	2.648	2.635	0.013	90	241074	5.00	5.00	
10 Chloroethane	64	2.733	2.727	0.006	100	204128	5.00	4.85	
11 Dichlorofluoromethane	67	2.977	2.971	0.006	97	480312	5.00	4.95	
13 Trichlorofluoromethane	101	3.044	3.044	0.000	97	438669	5.00	5.12	
15 Ethyl ether	59	3.282	3.276	0.006	91	172340	5.02	4.65	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.373	3.367	0.006	92	333799	5.00	4.88	
17 Acrolein	56	3.458	3.440	0.018	98	216749	37.5	30.4	
18 1,1-Dichloroethene	96	3.605	3.593	0.012	98	265513	5.00	5.34	
19 Acetone	43	3.623	3.617	0.006	100	418477	62.5	46.4	
20 112TCTFE	101	3.653	3.635	0.018	92	270470	5.00	5.12	
21 Isopropyl alcohol	45	3.794	3.769	0.025	26	38733	37.5	26.5	
22 Iodomethane	142	3.800	3.800	0.000	98	461611	5.00	5.29	
23 Ethyl bromide	108	3.824	3.818	0.006	98	230048	5.07	5.49	
24 Carbon disulfide	76	3.934	3.916	0.018	99	748540	5.00	5.01	
26 Methyl acetate	43	4.050	4.038	0.012	97	118435	5.00	4.41	M
27 3-Chloro-1-propene	41	4.080	4.068	0.012	95	435612	5.00	4.97	
* 28 t-Butyl alcohol-d10 (IS)	65	4.251	4.245	0.006	43	122955	50.0	50.0	
29 Methylene Chloride	84	4.269	4.257	0.012	92	278416	5.00	5.34	
30 2-Methyl-2-propanol	59	4.397	4.373	0.024	98	134010	50.0	47.7	M
31 Acrylonitrile	53	4.598	4.586	0.012	99	265911	25.0	22.6	
32 Methyl tert-butyl ether	73	4.678	4.672	0.006	88	593131	5.00	5.04	
33 trans-1,2-Dichloroethene	96	4.690	4.684	0.006	100	282531	5.00	5.27	
34 Hexane	57	5.117	5.111	0.006	91	417514	5.00	4.86	
35 1,1-Dichloroethane	63	5.348	5.336	0.012	95	504554	5.00	5.12	
37 Isopropyl ether	45	5.397	5.391	0.006	96	857013	5.00	4.98	
38 2-Chloro-1,3-butadiene	53	5.458	5.452	0.006	89	424010	5.00	5.10	
39 Tert-butyl ethyl ether	59	5.934	5.927	0.007	98	785735	5.00	5.25	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	6.129	6.123	0.006	100	809524	62.5	53.6	
42 cis-1,2-Dichloroethene	96	6.177	6.171	0.006	81	316712	5.00	5.35	
43 2,2-Dichloropropane	77	6.202	6.190	0.012	86	441411	5.00	5.49	
45 Propionitrile	54	6.226	6.214	0.012	98	131895	37.5	30.8	
47 Methacrylonitrile	67	6.440	6.433	0.007	90	507637	37.5	32.2	
48 Chlorobromomethane	128	6.513	6.507	0.006	96	134594	5.00	5.68	
49 Tetrahydrofuran	71	6.519	6.513	0.006	81	94421	25.0	22.5	
50 Chloroform	83	6.659	6.653	0.006	93	495578	5.00	5.35	
$ 51 Dibromofluoromethane (Surr)	113	6.872	6.866	0.006	93	481481	10.0	10.6	
52 1,1,1-Trichloroethane	97	6.891	6.885	0.006	98	454038	5.00	5.34	
53 Cyclohexane	56	6.994	6.994	0.000	90	520338	5.00	4.86	
55 1,1-Dichloropropene	75	7.104	7.098	0.006	97	409383	5.00	5.23	
56 Carbon tetrachloride	117	7.104	7.098	0.006	84	401111	5.00	5.46	
57 Isobutyl alcohol	41	7.238	7.232	0.006	96	119405	125.0	112.0	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.330	7.324	0.006	98	92003	10.0	10.0	
59 Benzene	78	7.366	7.360	0.006	96	1182083	5.00	5.26	
60 1,2-Dichloroethane	62	7.433	7.433	0.000	97	292826	5.00	5.33	
62 Tert-amyl methyl ether	73	7.549	7.549	0.000	99	689508	5.00	5.24	
* 65 Fluorobenzene (IS)	96	7.769	7.769	0.000	99	1878064	10.0	10.0	
64 n-Heptane	43	7.781	7.781	0.000	92	445378	5.00	4.75	
66 n-Butanol	56	8.122	8.110	0.012	87	229880	250.0	246.2	
67 Trichloroethene	95	8.250	8.250	0.000	98	302266	5.00	5.22	
68 Methylcyclohexane	83	8.561	8.561	0.000	94	550254	5.00	5.03	
70 1,2-Dichloropropane	63	8.585	8.579	0.006	79	305229	5.00	5.25	
69 2-ethoxy-2-methyl butane	87	8.592	8.585	0.007	91	393463	5.00	5.36	
71 Methyl methacrylate	69	8.659	8.659	0.000	91	128266	5.00	4.42	
72 1,4-Dioxane	88	8.683	8.665	0.018	32	31634	125.0	166.5	M
73 Dibromomethane	93	8.695	8.695	0.000	97	138327	5.00	5.54	
75 Dichlorobromomethane	83	8.927	8.927	0.000	100	358227	5.00	5.51	
76 2-Nitropropane	41	9.195	9.189	0.006	98	35089	5.00	4.57	
79 1-Bromo-2-chloroethane	63	9.323	9.323	0.000	98	284971	5.00	5.04	
80 cis-1,3-Dichloropropene	75	9.469	9.469	0.000	97	444551	5.00	5.28	
81 4-Methyl-2-pentanone (MIBK)	43	9.640	9.640	0.000	96	2041799	62.5	54.0	
$ 82 Toluene-d8 (Surr)	98	9.780	9.780	0.000	93	1952571	10.0	9.61	
83 Toluene	92	9.853	9.854	-0.001	98	746855	5.00	4.82	
85 trans-1,3-Dichloropropene	75	10.110	10.110	0.000	91	376261	5.00	5.18	
86 Ethyl methacrylate	69	10.170	10.164	0.006	88	275884	5.00	4.97	
87 1,1,2-Trichloroethane	97	10.311	10.311	0.000	89	204339	5.00	5.17	
88 Tetrachloroethene	166	10.402	10.402	0.000	97	330098	5.00	4.91	
89 1,3-Dichloropropane	76	10.475	10.475	0.000	88	348137	5.00	5.07	
91 2-Hexanone	43	10.524	10.524	0.000	96	1448026	62.5	56.0	
93 Chlorodibromomethane	129	10.689	10.689	0.000	91	249363	5.00	5.08	
94 Ethylene Dibromide	107	10.805	10.805	0.000	98	193122	5.00	5.07	
* 97 Chlorobenzene-d5 (IS)	117	11.231	11.231	0.000	85	1512131	10.0	10.0	
96 1-Chlorohexane	91	11.237	11.237	0.000	96	429525	5.00	4.56	
98 Chlorobenzene	112	11.262	11.262	0.000	95	818304	5.00	4.98	
99 1,1,1,2-Tetrachloroethane	131	11.341	11.341	0.000	96	284663	5.00	5.07	
100 Ethylbenzene	91	11.347	11.347	0.000	98	1438344	5.00	4.92	
101 m-Xylene & p-Xylene	106	11.457	11.457	0.000	98	1139046	10.0	10.2	
102 o-Xylene	106	11.786	11.786	0.000	96	547375	5.00	4.94	
103 Styrene	104	11.804	11.804	0.000	95	910855	5.00	5.14	
104 Bromoform	173	11.963	11.963	0.000	97	148893	5.00	5.49	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 Isopropylbenzene	105	12.091	12.091	0.000	95	1464688	5.00	5.13	
$ 108 4-Bromofluorobenzene (Surr)	95	12.231	12.231	0.000	90	733250	10.0	9.89	
109 1,1,2,2-Tetrachloroethane	83	12.329	12.329	0.000	93	244213	5.00	4.87	
111 Bromobenzene	156	12.353	12.353	0.000	94	332814	5.00	5.23	
110 trans-1,4-Dichloro-2-butene	53	12.353	12.353	0.000	89	296519	25.0	22.3	
112 1,2,3-Trichloropropane	110	12.377	12.377	0.000	82	63923	5.00	4.99	
113 N-Propylbenzene	91	12.414	12.414	0.000	99	1702248	5.00	4.86	
114 2-Chlorotoluene	126	12.493	12.493	0.000	97	335573	5.00	4.90	
115 1,3,5-Trimethylbenzene	105	12.554	12.554	0.000	94	1198553	5.00	4.88	
116 4-Chlorotoluene	126	12.585	12.585	0.000	97	344820	5.00	4.99	
118 tert-Butylbenzene	134	12.792	12.792	0.000	93	254090	5.00	4.76	
120 1,2,4-Trimethylbenzene	105	12.835	12.835	0.000	97	1218893	5.00	4.87	
121 sec-Butylbenzene	105	12.957	12.957	0.000	94	1560616	5.00	5.04	
122 1,3-Dichlorobenzene	146	13.060	13.060	0.000	98	660143	5.00	5.03	
123 4-Isopropyltoluene	119	13.066	13.066	0.000	97	1315146	5.00	5.02	
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	96	827510	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.133	13.133	0.000	94	657605	5.00	5.09	
126 1,2,3-Trimethylbenzene	120	13.139	13.139	0.000	98	533873	5.00	4.79	
127 Benzyl chloride	126	13.206	13.207	-0.001	98	107541	5.00	5.23	
130 n-Butylbenzene	92	13.359	13.359	0.000	97	649845	5.00	4.92	
131 1,2-Dichlorobenzene	146	13.389	13.389	0.000	99	605789	5.00	5.10	
129 p-Diethylbenzene	119	13.408	13.408	0.000	87	644872	5.00	4.86	
134 1,2-Dibromo-3-Chloropropane	155	13.932	13.932	0.000	88	34245	5.00	4.75	
135 1,3,5-Trichlorobenzene	180	14.060	14.060	0.000	98	486643	5.00	5.14	
136 1,2,4-Trichlorobenzene	180	14.481	14.481	0.000	94	423248	5.00	5.28	
137 Hexachlorobutadiene	225	14.566	14.566	0.000	97	181473	5.00	4.94	
138 Naphthalene	128	14.664	14.664	0.000	97	791645	5.00	5.11	
139 1,2,3-Trichlorobenzene	180	14.804	14.804	0.000	96	372076	5.00	5.35	
140 2-Methylnaphthalene	142	15.438	15.438	0.000	92	480914	5.00	5.36	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_Q_EE_00004	Amount Added:	12.50	Units: uL	
MSV_Q_ETBR_00008	Amount Added:	12.50	Units: uL	
MSV_LCS_VOC#1_00008	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00011	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00009	Amount Added:	12.50	Units: uL	
MSV_LLcentISS_00001	Amount Added:	5.00	Units: uL	Run Reagent

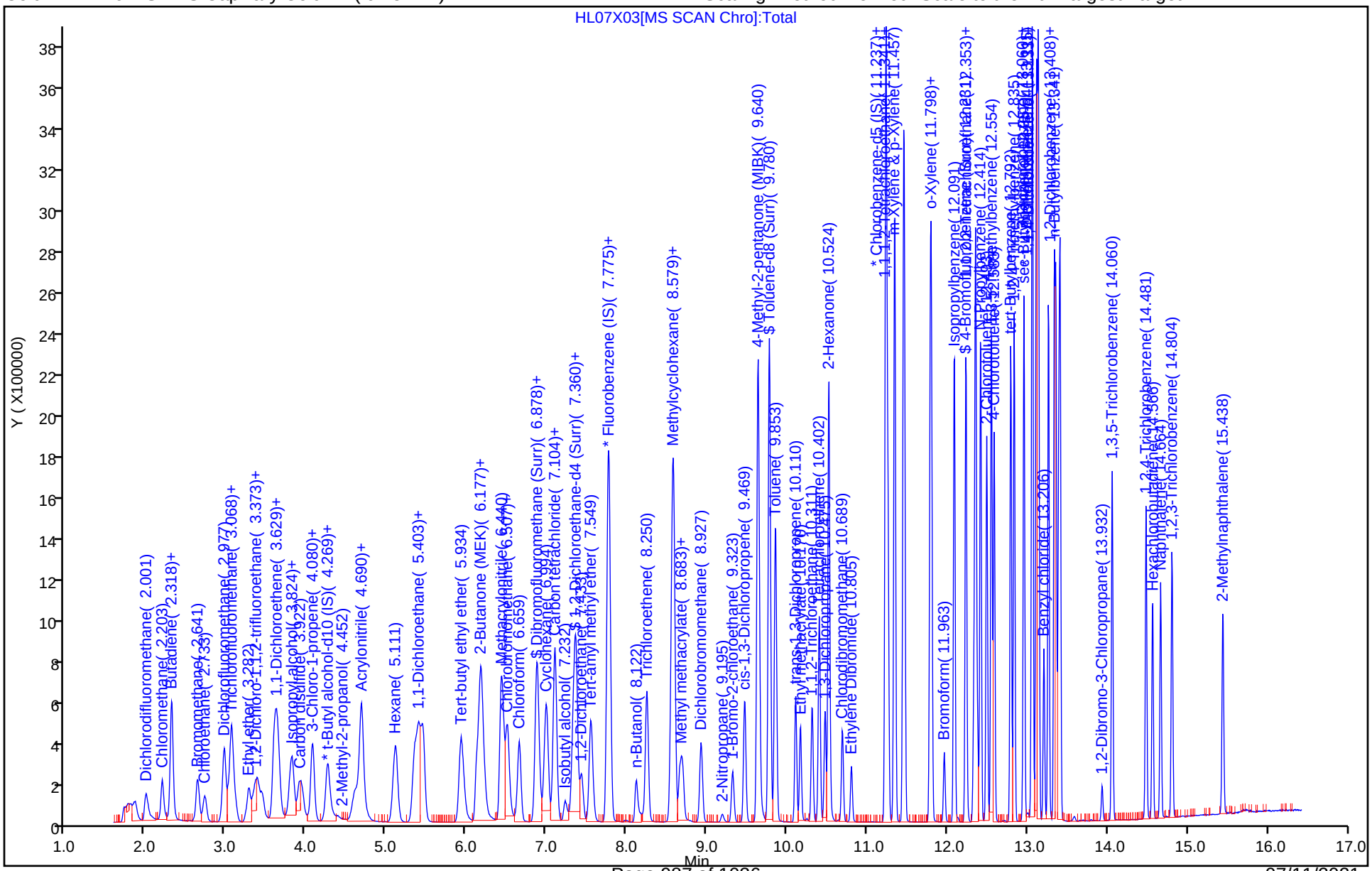
Report Date: 07-Jul-2021 17:04:37 Chrom Revision: 2.3 07-Jul-2021 12:11:26

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X03.D

Injection Date:	07-Jul-2021 09:34:30	Instrument ID:	19094	Operator ID:	SRK36897
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X03.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	07-Jul-2021 09:34:30	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0033672-004				
Misc. Info.:	LCS				
Operator ID:	SRK36897	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20210707-33672.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Jul-2021 17:04:30	Calib Date:	30-Jun-2021 20:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1651				

First Level Reviewer: knouses Date: 07-Jul-2021 10:23:27

Compound	Amount Added	Amount Recovered	% Rec.
$ 51 Dibromofluoromethane (Surr)	10.0	10.6	105.97
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.0	100.28
$ 82 Toluene-d8 (Surr)	10.0	9.61	96.10
$ 108 4-Bromofluorobenzene (Surr)	10.0	9.89	98.89

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-145209/5

Matrix: Water Lab File ID: CL06X08.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 12:28

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.00		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.01		0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	5.20		0.50	0.070
79-00-5	1,1,2-Trichloroethane	5.23		0.50	0.060
75-34-3	1,1-Dichloroethane	5.33		0.50	0.070
75-35-4	1,1-Dichloroethene	5.44		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	5.04		0.50	0.060
107-06-2	1,2-Dichloroethane	5.02		0.50	0.050
78-87-5	1,2-Dichloropropane	5.63		0.50	0.060
78-93-3	2-Butanone (MEK)	87.1		5.0	0.60
591-78-6	2-Hexanone	86.4		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	86.7		5.0	0.70
67-64-1	Acetone	60.5		5.0	0.90
71-43-2	Benzene	5.30		0.50	0.050
74-97-5	Bromochloromethane	5.01		0.50	0.050
75-27-4	Bromodichloromethane	5.36		0.50	0.050
75-25-2	Bromoform	5.41		1.0	0.30
74-83-9	Bromomethane	5.25		0.50	0.070
75-15-0	Carbon disulfide	5.78		1.0	0.060
56-23-5	Carbon tetrachloride	5.03		0.50	0.070
108-90-7	Chlorobenzene	4.97		0.50	0.060
75-00-3	Chloroethane	5.46		0.50	0.070
67-66-3	Chloroform	5.18		0.50	0.090
74-87-3	Chloromethane	6.66		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	5.22		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	5.39		0.50	0.050
124-48-1	Dibromochloromethane	5.37		0.50	0.070
100-41-4	Ethylbenzene	5.20		0.50	0.060
1634-04-4	Methyl tert-butyl ether	5.04		0.50	0.050
75-09-2	Methylene Chloride	5.42		0.50	0.070
100-42-5	Styrene	5.15		0.50	0.050
127-18-4	Tetrachloroethene	4.88		0.50	0.060
108-88-3	Toluene	5.12		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	5.18		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	5.51		0.50	0.060
79-01-6	Trichloroethene	5.06		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-145209/5

Matrix: Water Lab File ID: CL06X08.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 12:28

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	6.50		0.50	0.10
1330-20-7	Xylenes, Total	15.4		1.0	0.15

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)	97		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X08.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 06-Jul-2021 12:28:30 ALS Bottle#: 8 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033571-005
Misc. Info.: LCSD
Operator ID: SRK36897 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jul-2021 14:18:17 Calib Date: 13-Apr-2021 23:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1667

First Level Reviewer: knouses Date: 06-Jul-2021 14:18:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.873	1.885	-0.012	99	363978	5.00	6.27	
3 Chloromethane	50	2.075	2.081	-0.006	99	478231	5.00	6.66	
4 Butadiene	39	2.178	2.184	-0.006	96	507887	5.00	6.45	
5 Vinyl chloride	62	2.178	2.184	-0.006	83	426210	5.00	6.50	
6 Bromomethane	94	2.489	2.495	-0.006	92	247710	5.00	5.25	
7 Chloroethane	64	2.562	2.568	-0.006	99	234395	5.00	5.46	
8 Dichlorofluoromethane	67	2.794	2.800	-0.006	98	580883	5.00	5.87	
9 Trichlorofluoromethane	101	2.861	2.867	-0.006	96	466054	5.00	5.21	M
11 Ethyl ether	59	3.068	3.074	-0.006	96	247776	5.02	5.11	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.172	3.178	-0.006	96	366248	5.00	5.23	
14 1,1-Dichloroethene	96	3.367	3.373	-0.006	96	274360	5.00	5.44	
16 Acetone	43	3.398	3.403	-0.005	100	433436	62.5	60.5	
15 112TCTFE	101	3.404	3.416	-0.012	91	279077	5.00	5.08	
17 Iodomethane	142	3.550	3.556	-0.006	99	462780	5.00	4.69	
18 Isopropyl alcohol	45	3.568	3.580	-0.012	32	74203	37.5	43.6	
19 Ethyl bromide	108	3.574	3.580	-0.006	98	238753	5.07	5.64	
20 Carbon disulfide	76	3.672	3.684	-0.012	100	995883	5.00	5.78	
22 Methyl acetate	43	3.788	3.788	0.000	97	115298	5.00	7.34	M
23 3-Chloro-1-propene	41	3.806	3.812	-0.006	90	604561	5.00	6.48	
24 Methylene Chloride	84	3.983	3.989	-0.006	98	306973	5.00	5.42	
* 25 t-Butyl alcohol-d10 (IS)	65	4.013	4.044	-0.031	95	155178	50.0	50.0	
26 2-Methyl-2-propanol	59	4.147	4.153	-0.006	99	135372	50.0	48.8	
27 Acrylonitrile	53	4.318	4.324	-0.006	99	348187	25.0	34.2	
28 Methyl tert-butyl ether	73	4.361	4.373	-0.012	92	838264	5.00	5.04	
29 trans-1,2-Dichloroethene	96	4.373	4.379	-0.006	95	299644	5.00	5.18	
30 Hexane	57	4.800	4.806	-0.006	96	507672	5.00	5.55	
32 1,1-Dichloroethane	63	5.038	5.049	-0.011	96	583900	5.00	5.33	
33 Isopropyl ether	45	5.098	5.104	-0.006	95	1228665	5.00	5.95	
34 2-Chloro-1,3-butadiene	53	5.147	5.159	-0.012	92	535317	5.00	5.38	
35 Tert-butyl ethyl ether	59	5.635	5.647	-0.012	98	1069288	5.00	5.33	
36 2-Butanone (MEK)	43	5.861	5.860	0.000	100	1268465	62.5	87.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 cis-1,2-Dichloroethene	96	5.885	5.891	-0.006	87	339696	5.00	5.22	
38 2,2-Dichloropropane	77	5.891	5.903	-0.012	90	464297	5.00	5.21	
40 Propionitrile	54	5.964	5.958	0.006	98	175545	37.5	45.7	
43 Methacrylonitrile	67	6.159	6.165	-0.006	95	655887	37.5	45.6	
44 Chlorobromomethane	128	6.220	6.226	-0.006	97	144819	5.00	5.01	
45 Tetrahydrofuran	71	6.220	6.226	-0.006	87	123458	25.0	29.4	
46 Chloroform	83	6.373	6.378	-0.005	95	543382	5.00	5.18	
$ 47 Dibromofluoromethane (Surr)	113	6.592	6.598	-0.006	93	506554	10.0	9.73	
48 1,1,1-Trichloroethane	97	6.598	6.598	0.000	79	462327	5.00	5.01	
49 Cyclohexane	56	6.690	6.689	0.001	95	616077	5.00	5.59	
50 Carbon tetrachloride	117	6.805	6.805	0.000	95	387393	5.00	5.03	
51 1,1-Dichloropropene	75	6.812	6.817	-0.005	94	453230	5.00	5.29	
52 Isobutyl alcohol	41	7.007	7.006	0.001	95	132816	125.0	128.9	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.043	7.055	-0.012	100	109019	10.0	10.2	
54 Benzene	78	7.074	7.080	-0.006	97	1317007	5.00	5.30	
55 1,2-Dichloroethane	62	7.147	7.159	-0.012	97	371900	5.00	5.02	
56 Tert-amyl methyl ether	73	7.269	7.275	-0.006	97	904246	5.00	5.06	
* 57 Fluorobenzene (IS)	96	7.488	7.494	-0.006	98	2198996	10.0	10.0	
58 n-Heptane	43	7.494	7.500	-0.006	93	602667	5.00	5.99	
59 n-Butanol	56	7.915	7.896	0.019	94	181408	250.0	222.2	
60 Trichloroethene	95	7.970	7.976	-0.006	98	318766	5.00	5.06	
61 Methylcyclohexane	83	8.275	8.274	0.001	95	597009	5.00	5.30	
62 1,2-Dichloropropane	63	8.305	8.305	0.000	97	361378	5.00	5.63	
63 2-ethoxy-2-methyl butane	87	8.317	8.323	-0.006	90	487294	5.00	4.89	
64 Methyl methacrylate	69	8.403	8.402	0.001	95	161832	5.00	5.57	
66 Dibromomethane	93	8.415	8.421	-0.006	97	156035	5.00	5.21	
65 1,4-Dioxane	88	8.421	8.433	-0.012	28	21546	125.0	115.1	M
67 Dichlorobromomethane	83	8.659	8.665	-0.006	98	397895	5.00	5.36	
68 2-Nitropropane	41	8.945	8.945	0.000	99	49260	5.00	5.19	
71 1-Bromo-2-chloroethane	63	9.055	9.061	-0.006	99	367001	5.00	6.01	
72 cis-1,3-Dichloropropene	75	9.220	9.225	-0.005	93	517655	5.00	5.39	
73 4-Methyl-2-pentanone (MIBK)	43	9.415	9.414	0.001	99	3474472	62.5	86.7	
$ 74 Toluene-d8 (Surr)	98	9.543	9.542	0.001	94	2224512	10.0	10.1	
75 Toluene	92	9.622	9.622	0.000	98	819733	5.00	5.12	
76 trans-1,3-Dichloropropene	75	9.896	9.896	0.000	96	449526	5.00	5.51	
78 Ethyl methacrylate	69	9.963	9.963	0.000	92	367466	5.00	5.31	
79 1,1,2-Trichloroethane	97	10.104	10.103	0.001	92	233180	5.00	5.23	
80 Tetrachloroethene	166	10.183	10.189	-0.006	96	331165	5.00	4.88	
81 1,3-Dichloropropane	76	10.268	10.274	-0.006	95	427073	5.00	5.37	
82 2-Hexanone	43	10.329	10.335	-0.006	99	2535186	62.5	86.4	
83 Chlorodibromomethane	129	10.488	10.487	0.001	90	269145	5.00	5.37	
84 Ethylene Dibromide	107	10.597	10.597	0.000	99	216432	5.00	5.04	
* 85 Chlorobenzene-d5 (IS)	117	11.042	11.042	0.000	88	1640751	10.0	10.0	
86 1-Chlorohexane	91	11.055	11.054	0.001	92	448550	5.00	4.86	
87 Chlorobenzene	112	11.067	11.067	0.000	93	897553	5.00	4.97	
89 1,1,1,2-Tetrachloroethane	131	11.152	11.152	0.000	93	301224	5.00	5.00	
90 Ethylbenzene	91	11.158	11.158	0.000	99	1623606	5.00	5.20	
91 m-Xylene & p-Xylene	106	11.274	11.274	0.000	98	1243306	10.0	10.3	
92 o-Xylene	106	11.609	11.609	0.000	97	614035	5.00	5.09	
93 Styrene	104	11.628	11.627	0.001	95	1038012	5.00	5.15	
94 Bromoform	173	11.786	11.786	0.000	96	153975	5.00	5.41	
95 Isopropylbenzene	105	11.914	11.920	-0.006	96	1618065	5.00	5.17	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 98 4-Bromofluorobenzene (Surr)	95	12.061	12.060	0.001	88	842389	10.0	10.0	
99 1,1,2,2-Tetrachloroethane	83	12.170	12.170	0.000	94	307573	5.00	5.20	
100 Bromobenzene	156	12.182	12.182	0.000	97	382035	5.00	4.80	
101 trans-1,4-Dichloro-2-butene	53	12.195	12.201	-0.005	92	426899	25.0	24.7	
102 1,2,3-Trichloropropane	110	12.213	12.219	-0.006	81	77495	5.00	4.85	
103 N-Propylbenzene	91	12.250	12.249	0.001	99	1946224	5.00	5.05	
104 2-Chlorotoluene	126	12.329	12.329	0.000	96	379951	5.00	4.76	
105 1,3,5-Trimethylbenzene	105	12.390	12.389	0.001	94	1386664	5.00	4.91	
106 4-Chlorotoluene	126	12.420	12.420	0.000	98	396991	5.00	4.76	
107 tert-Butylbenzene	134	12.634	12.633	0.001	94	278178	5.00	4.56	
109 1,2,4-Trimethylbenzene	105	12.676	12.676	0.000	98	1437905	5.00	4.92	
110 sec-Butylbenzene	105	12.798	12.804	-0.006	95	1795939	5.00	4.96	
111 1,3-Dichlorobenzene	146	12.902	12.902	0.000	98	757974	5.00	4.82	
112 4-Isopropyltoluene	119	12.908	12.908	0.000	97	1565188	5.00	4.98	
* 113 1,4-Dichlorobenzene-d4	152	12.957	12.956	0.001	95	935979	10.0	10.0	
114 1,4-Dichlorobenzene	146	12.975	12.975	0.000	93	782791	5.00	4.84	
115 1,2,3-Trimethylbenzene	120	12.987	12.987	0.000	99	617529	5.00	4.76	
116 Benzyl chloride	126	13.054	13.054	0.000	99	117948	5.00	5.35	
119 n-Butylbenzene	92	13.207	13.206	0.001	98	812543	5.00	5.07	
120 1,2-Dichlorobenzene	146	13.237	13.237	0.000	97	716125	5.00	4.83	
118 p-Diethylbenzene	119	13.255	13.261	-0.006	86	775020	5.00	4.82	
123 1,2-Dibromo-3-Chloropropane	155	13.792	13.792	0.000	82	38003	5.00	4.65	
124 1,3,5-Trichlorobenzene	180	13.914	13.914	0.000	97	619685	5.00	4.80	
125 1,2,4-Trichlorobenzene	180	14.341	14.340	0.001	95	550412	5.00	4.75	
126 Hexachlorobutadiene	225	14.426	14.426	0.000	98	273661	5.00	4.97	
127 Naphthalene	128	14.523	14.523	0.000	97	952558	5.00	4.56	
128 1,2,3-Trichlorobenzene	180	14.670	14.670	0.000	95	463997	5.00	4.50	
129 2-Methylnaphthalene	142	15.292	15.291	0.001	93	496118	5.00	3.43	
225 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_Q_ETBR_00008	Amount Added:	12.50	Units: uL	
MSV_Q_EE_00004	Amount Added:	12.50	Units: uL	
MSV_LCS_VOC#1_00008	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00011	Amount Added:	12.50	Units: uL	
MSV_HP25_ISSS_00029	Amount Added:	1.00	Units: uL	Run Reagent

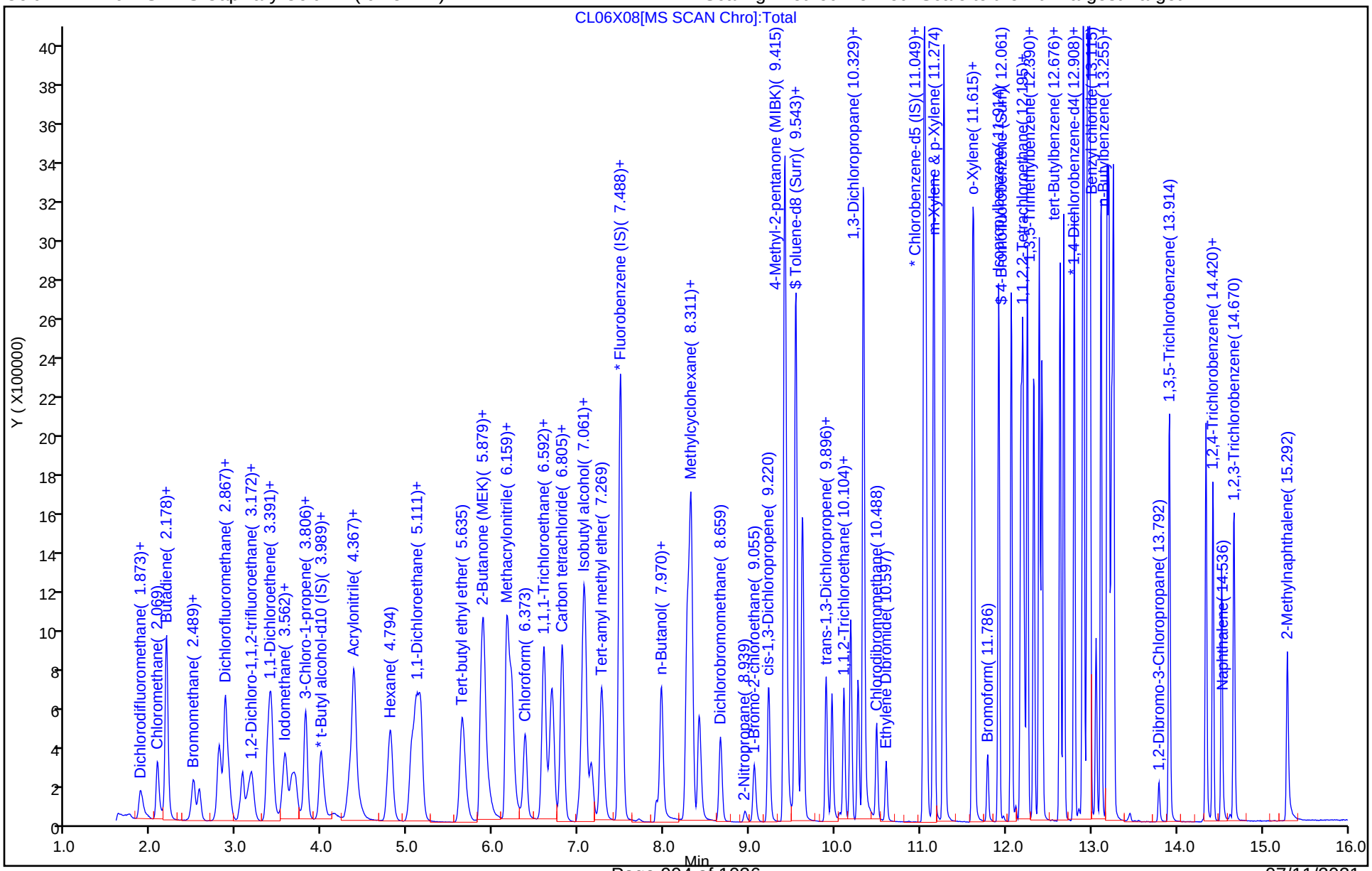
Report Date: 06-Jul-2021 14:18:29 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X08.D

Injection Date:	06-Jul-2021 12:28:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	LCSD			Worklist Smp#:	5
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X08.D				
Lims ID:	LCSD				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	06-Jul-2021 12:28:30	ALS Bottle#:	8	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0033571-005				
Misc. Info.:	LCSD				
Operator ID:	SRK36897	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Jul-2021 14:18:17	Calib Date:	13-Apr-2021 23:14:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1667				

First Level Reviewer: knouses Date: 06-Jul-2021 14:18:07

Compound	Amount Added	Amount Recovered	% Rec.
$ 47 Dibromofluoromethane (Surr)	10.0	9.73	97.29
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	101.66
$ 74 Toluene-d8 (Surr)	10.0	10.1	101.35
$ 98 4-Bromofluorobenzene (Surr)	10.0	10.0	100.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-145644/5

Matrix: Water Lab File ID: HL07X04.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 07/07/2021 09:54

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145644 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.07		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.17		0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	4.82		0.50	0.070
79-00-5	1,1,2-Trichloroethane	5.10		0.50	0.060
75-34-3	1,1-Dichloroethane	5.14		0.50	0.070
75-35-4	1,1-Dichloroethene	5.22		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	5.00		0.50	0.060
107-06-2	1,2-Dichloroethane	5.36		0.50	0.050
78-87-5	1,2-Dichloropropane	5.14		0.50	0.060
78-93-3	2-Butanone (MEK)	60.0		5.0	0.60
591-78-6	2-Hexanone	61.5		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	58.5		5.0	0.70
67-64-1	Acetone	50.2		5.0	0.90
71-43-2	Benzene	5.19		0.50	0.050
74-97-5	Bromochloromethane	5.67		0.50	0.050
75-27-4	Bromodichloromethane	5.47		0.50	0.050
75-25-2	Bromoform	5.35		1.0	0.30
74-83-9	Bromomethane	4.84		0.50	0.070
75-15-0	Carbon disulfide	4.96		1.0	0.060
56-23-5	Carbon tetrachloride	5.32		0.50	0.070
108-90-7	Chlorobenzene	4.95		0.50	0.060
75-00-3	Chloroethane	4.78		0.50	0.070
67-66-3	Chloroform	5.28		0.50	0.090
74-87-3	Chloromethane	4.78		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	5.32		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	5.23		0.50	0.050
124-48-1	Dibromochloromethane	5.08		0.50	0.070
100-41-4	Ethylbenzene	4.94		0.50	0.060
1634-04-4	Methyl tert-butyl ether	5.06		0.50	0.050
75-09-2	Methylene Chloride	5.37		0.50	0.070
100-42-5	Styrene	5.09		0.50	0.050
127-18-4	Tetrachloroethene	4.92		0.50	0.060
108-88-3	Toluene	4.86		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	5.11		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	5.03		0.50	0.060
79-01-6	Trichloroethene	5.29		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-145644/5

Matrix: Water Lab File ID: HL07X04.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 07/07/2021 09:54

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145644 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	4.73		0.50	0.10
1330-20-7	Xylenes, Total	15.1		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X04.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 07-Jul-2021 09:54:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033672-005
Misc. Info.: LCSD
Operator ID: SRK36897 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2021 17:04:30 Calib Date: 30-Jun-2021 20:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: knouses Date: 07-Jul-2021 10:45:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	2.001	1.989	0.012	99	289149	5.00	5.37	
6 Chloromethane	50	2.203	2.190	0.013	99	311030	5.00	4.78	
8 Butadiene	39	2.318	2.306	0.012	90	268432	5.00	4.46	
7 Vinyl chloride	62	2.324	2.312	0.012	95	311248	5.00	4.73	
9 Bromomethane	94	2.648	2.635	0.013	89	235500	5.00	4.84	
10 Chloroethane	64	2.733	2.727	0.006	100	203300	5.00	4.78	
11 Dichlorofluoromethane	67	2.977	2.971	0.006	97	489800	5.00	4.99	
13 Trichlorofluoromethane	101	3.050	3.044	0.006	97	432446	5.00	4.99	
15 Ethyl ether	59	3.282	3.276	0.006	90	171735	5.02	4.59	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.385	3.367	0.018	92	332674	5.00	4.81	
17 Acrolein	56	3.452	3.440	0.012	96	201216	37.5	31.2	
18 1,1-Dichloroethene	96	3.605	3.593	0.012	98	261825	5.00	5.22	
19 Acetone	43	3.623	3.617	0.006	100	408976	62.5	50.2	
20 112TCTFE	101	3.647	3.635	0.012	94	272029	5.00	5.10	
21 Isopropyl alcohol	45	3.751	3.769	-0.018	95	49516	37.5	33.5	M
22 Iodomethane	142	3.806	3.800	0.006	98	460896	5.00	5.23	
23 Ethyl bromide	108	3.830	3.818	0.012	98	235142	5.07	5.56	
24 Carbon disulfide	76	3.928	3.916	0.012	99	748067	5.00	4.96	M
26 Methyl acetate	43	4.050	4.038	0.012	95	105209	5.00	4.34	M
27 3-Chloro-1-propene	41	4.080	4.068	0.012	95	439938	5.00	4.96	
* 28 t-Butyl alcohol-d10 (IS)	65	4.257	4.245	0.012	87	111008	50.0	50.0	
29 Methylene Chloride	84	4.269	4.257	0.012	92	282829	5.00	5.37	
30 2-Methyl-2-propanol	59	4.373	4.373	0.000	97	123298	50.0	48.6	M
31 Acrylonitrile	53	4.598	4.586	0.012	100	261121	25.0	24.5	
32 Methyl tert-butyl ether	73	4.678	4.672	0.006	85	602061	5.00	5.06	
33 trans-1,2-Dichloroethene	96	4.690	4.684	0.006	100	276777	5.00	5.11	
34 Hexane	57	5.117	5.111	0.006	92	414129	5.00	4.77	
35 1,1-Dichloroethane	63	5.348	5.336	0.012	96	511605	5.00	5.14	
37 Isopropyl ether	45	5.409	5.391	0.018	95	859964	5.00	4.94	
38 2-Chloro-1,3-butadiene	53	5.458	5.452	0.006	89	424590	5.00	5.05	
39 Tert-butyl ethyl ether	59	5.934	5.927	0.007	97	778145	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
41 2-Butanone (MEK)	43	6.135	6.123	0.012	100	817715	62.5	60.0	
42 cis-1,2-Dichloroethene	96	6.177	6.171	0.006	80	318168	5.00	5.32	
43 2,2-Dichloropropane	77	6.196	6.190	0.006	85	442003	5.00	5.44	
45 Propionitrile	54	6.226	6.214	0.012	97	135767	37.5	35.1	
47 Methacrylonitrile	67	6.440	6.433	0.007	91	508462	37.5	35.7	
48 Chlorobromomethane	128	6.507	6.507	0.000	93	135807	5.00	5.67	
49 Tetrahydrofuran	71	6.525	6.513	0.012	81	93572	25.0	24.8	
50 Chloroform	83	6.659	6.653	0.006	93	493446	5.00	5.28	
$ 51 Dibromofluoromethane (Surr)	113	6.872	6.866	0.006	94	477971	10.0	10.4	
52 1,1,1-Trichloroethane	97	6.885	6.885	0.000	98	444512	5.00	5.17	
53 Cyclohexane	56	7.000	6.994	0.006	89	510976	5.00	4.73	
55 1,1-Dichloropropene	75	7.104	7.098	0.006	98	412846	5.00	5.22	
56 Carbon tetrachloride	117	7.110	7.098	0.012	95	394775	5.00	5.32	
57 Isobutyl alcohol	41	7.232	7.232	0.000	94	105291	125.0	109.4	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.330	7.324	0.006	96	94589	10.0	10.2	
59 Benzene	78	7.366	7.360	0.006	96	1178518	5.00	5.19	
60 1,2-Dichloroethane	62	7.433	7.433	0.000	97	297186	5.00	5.36	
62 Tert-amyl methyl ether	73	7.555	7.549	0.006	99	681421	5.00	5.12	
* 65 Fluorobenzene (IS)	96	7.769	7.769	-0.001	99	1897241	10.0	10.0	
64 n-Heptane	43	7.787	7.781	0.006	92	444315	5.00	4.69	
66 n-Butanol	56	8.122	8.110	0.012	86	202532	250.0	240.2	
67 Trichloroethene	95	8.250	8.250	0.000	98	309637	5.00	5.29	
68 Methylcyclohexane	83	8.567	8.561	0.006	93	543532	5.00	4.92	
70 1,2-Dichloropropane	63	8.585	8.579	0.006	74	302171	5.00	5.14	
69 2-ethoxy-2-methyl butane	87	8.585	8.585	0.000	90	390081	5.00	5.26	
71 Methyl methacrylate	69	8.665	8.659	0.006	91	128507	5.00	4.90	
72 1,4-Dioxane	88	8.665	8.665	0.000	31	22628	125.0	131.9	M
73 Dibromomethane	93	8.695	8.695	0.000	96	138814	5.00	5.51	
75 Dichlorobromomethane	83	8.927	8.927	0.000	100	359596	5.00	5.47	
76 2-Nitropropane	41	9.189	9.189	0.000	99	32806	5.00	4.74	
79 1-Bromo-2-chloroethane	63	9.323	9.323	0.000	98	285240	5.00	5.00	
80 cis-1,3-Dichloropropene	75	9.469	9.469	0.000	97	444856	5.00	5.23	
81 4-Methyl-2-pentanone (MIBK)	43	9.640	9.640	0.000	96	1994793	62.5	58.5	
$ 82 Toluene-d8 (Surr)	98	9.780	9.780	0.000	93	1956443	10.0	9.58	
83 Toluene	92	9.860	9.854	0.006	98	757445	5.00	4.86	
85 trans-1,3-Dichloropropene	75	10.110	10.110	0.000	92	367289	5.00	5.03	
86 Ethyl methacrylate	69	10.170	10.164	0.006	88	274524	5.00	4.92	
87 1,1,2-Trichloroethane	97	10.317	10.311	0.006	89	202586	5.00	5.10	
88 Tetrachloroethene	166	10.402	10.402	0.000	97	332777	5.00	4.92	
89 1,3-Dichloropropane	76	10.475	10.475	0.000	88	344743	5.00	4.99	
91 2-Hexanone	43	10.524	10.524	0.000	97	1435870	62.5	61.5	
93 Chlorodibromomethane	129	10.689	10.689	0.000	90	250984	5.00	5.08	
94 Ethylene Dibromide	107	10.805	10.805	-0.001	98	191742	5.00	5.00	
* 97 Chlorobenzene-d5 (IS)	117	11.231	11.231	0.000	85	1520524	10.0	10.0	
96 1-Chlorohexane	91	11.237	11.237	0.000	95	427635	5.00	4.52	
98 Chlorobenzene	112	11.262	11.262	0.000	95	817753	5.00	4.95	
99 1,1,1,2-Tetrachloroethane	131	11.341	11.341	0.000	98	286169	5.00	5.07	
100 Ethylbenzene	91	11.347	11.347	0.000	98	1453446	5.00	4.94	
101 m-Xylene & p-Xylene	106	11.463	11.457	0.006	98	1142750	10.0	10.2	
102 o-Xylene	106	11.786	11.786	0.000	96	542716	5.00	4.87	
103 Styrene	104	11.804	11.804	0.000	95	906784	5.00	5.09	
104 Bromoform	173	11.963	11.963	0.000	97	146033	5.00	5.35	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 Isopropylbenzene	105	12.091	12.091	0.000	95	1454786	5.00	5.06	
$ 108 4-Bromofluorobenzene (Surr)	95	12.231	12.231	0.000	90	739558	10.0	9.92	
109 1,1,2,2-Tetrachloroethane	83	12.329	12.329	0.000	93	242796	5.00	4.82	
111 Bromobenzene	156	12.353	12.353	0.000	94	330428	5.00	5.17	
110 trans-1,4-Dichloro-2-butene	53	12.353	12.353	0.000	87	294602	25.0	24.6	
112 1,2,3-Trichloropropane	110	12.377	12.377	0.000	82	61595	5.00	4.79	
113 N-Propylbenzene	91	12.414	12.414	0.000	99	1682245	5.00	4.78	
114 2-Chlorotoluene	126	12.493	12.493	0.000	97	339488	5.00	4.93	
115 1,3,5-Trimethylbenzene	105	12.554	12.554	0.000	93	1184385	5.00	4.81	
116 4-Chlorotoluene	126	12.585	12.585	0.000	97	341844	5.00	4.92	
118 tert-Butylbenzene	134	12.792	12.792	0.000	93	250892	5.00	4.68	
120 1,2,4-Trimethylbenzene	105	12.835	12.835	0.000	97	1216112	5.00	4.84	
121 sec-Butylbenzene	105	12.957	12.957	0.000	94	1551363	5.00	4.98	
122 1,3-Dichlorobenzene	146	13.060	13.060	0.000	97	650329	5.00	4.94	
123 4-Isopropyltoluene	119	13.066	13.066	0.000	97	1305702	5.00	4.96	
* 124 1,4-Dichlorobenzene-d4	152	13.115	13.115	0.000	94	831191	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.133	13.133	0.000	95	654787	5.00	5.04	
126 1,2,3-Trimethylbenzene	120	13.139	13.139	0.000	98	523437	5.00	4.68	
127 Benzyl chloride	126	13.206	13.207	-0.001	98	106397	5.00	5.15	
130 n-Butylbenzene	92	13.359	13.359	0.000	97	640542	5.00	4.83	
131 1,2-Dichlorobenzene	146	13.389	13.389	0.000	98	596826	5.00	5.00	
129 p-Diethylbenzene	119	13.408	13.408	0.000	87	631675	5.00	4.74	
134 1,2-Dibromo-3-Chloropropane	155	13.932	13.932	0.000	85	33457	5.00	4.62	
135 1,3,5-Trichlorobenzene	180	14.060	14.060	0.000	98	472100	5.00	4.96	
136 1,2,4-Trichlorobenzene	180	14.481	14.481	0.000	94	410650	5.00	5.10	
137 Hexachlorobutadiene	225	14.566	14.566	0.000	97	176523	5.00	4.78	
138 Naphthalene	128	14.664	14.664	0.000	97	763221	5.00	4.91	
139 1,2,3-Trichlorobenzene	180	14.804	14.804	0.000	96	361940	5.00	5.18	
140 2-Methylnaphthalene	142	15.438	15.438	0.000	93	430684	5.00	4.78	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00008	Amount Added:	12.50	Units: uL	
MSV_Q_EE_00004	Amount Added:	12.50	Units: uL	
MSV_Q_ETBR_00008	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00011	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00009	Amount Added:	12.50	Units: uL	
MSV_LLcentISS_00001	Amount Added:	5.00	Units: uL	Run Reagent

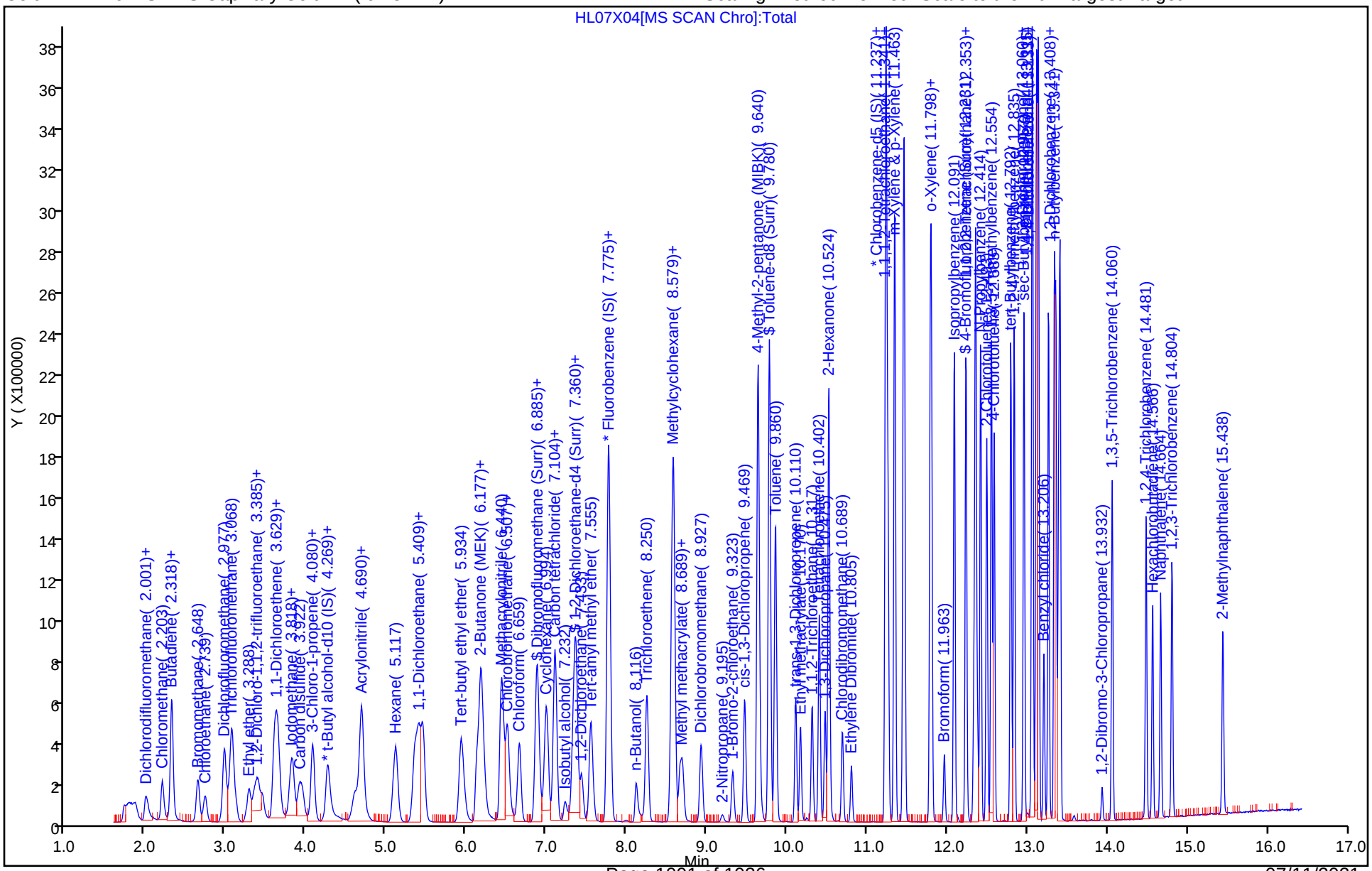
Report Date: 07-Jul-2021 17:04:43 Chrom Revision: 2.3 07-Jul-2021 12:11:26

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X04.D

Injection Date:	07-Jul-2021 09:54:30	Instrument ID:	19094	Operator ID:	SRK36897
Lims ID:	LCSD			Worklist Smp#:	5
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X04.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 07-Jul-2021 09:54:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033672-005
Misc. Info.: LCSD
Operator ID: SRK36897 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2021 17:04:30 Calib Date: 30-Jun-2021 20:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20210630-33290.b\HU30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: knouses Date: 07-Jul-2021 10:45:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 51 Dibromofluoromethane (Surr)	10.0	10.4	104.13
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.06
$ 82 Toluene-d8 (Surr)	10.0	9.58	95.76
$ 108 4-Bromofluorobenzene (Surr)	10.0	9.92	99.19

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

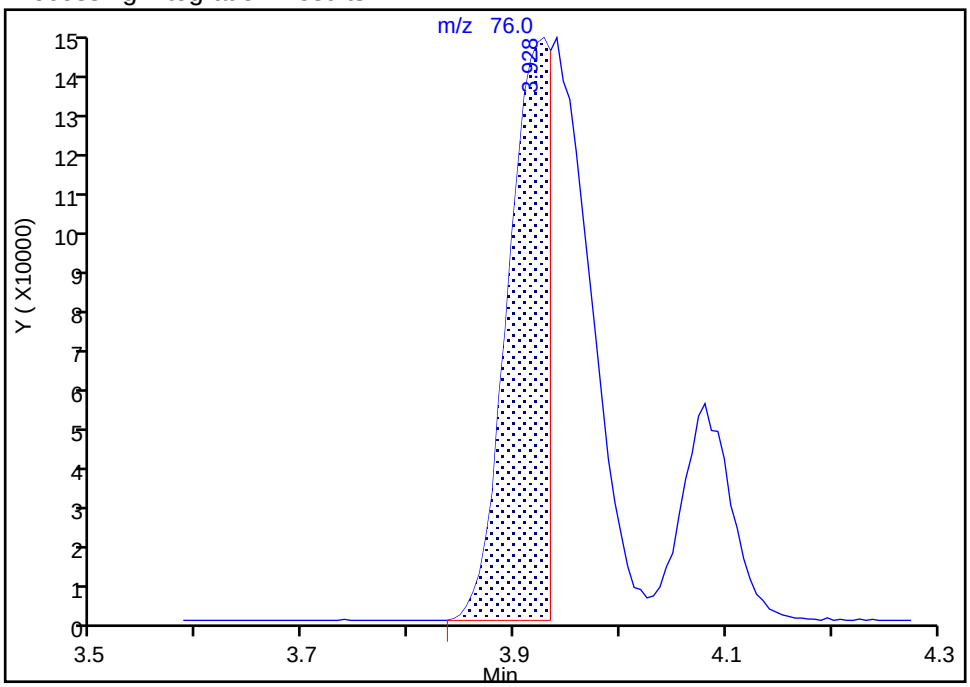
Data File: \\chromfs\Lancaster\ChromData\19094\20210707-33672.b\HL07X04.D
Injection Date: 07-Jul-2021 09:54:30 Instrument ID: 19094
Lims ID: LCSD
Client ID:
Operator ID: SRK36897 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

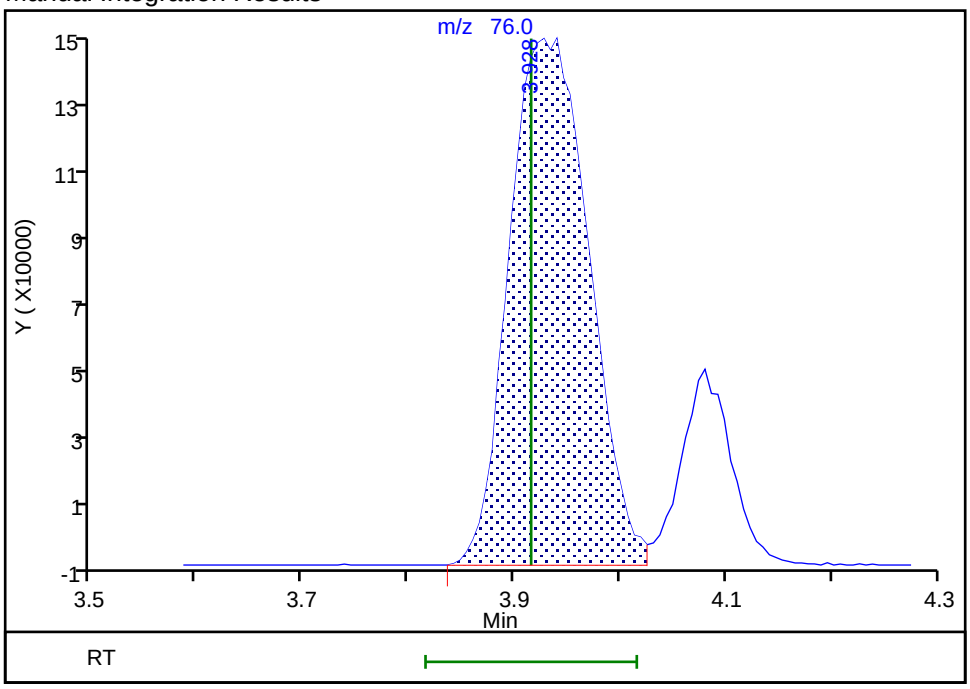
Processing Integration Results

RT: 3.93
Area: 400422
Amount: 2.654243
Amount Units: ug/l



Manual Integration Results

RT: 3.93
Area: 748067
Amount: 4.958647
Amount Units: ug/l



Reviewer: knouses, 07-Jul-2021 10:24:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MS Lab Sample ID: 410-45147-6 MS

Matrix: Water Lab File ID: CL06X12.D

Analysis Method: 8260D Date Collected: 06/24/2021 11:40

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 13:57

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.19		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.61		0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	5.32		0.50	0.070
79-00-5	1,1,2-Trichloroethane	5.33		0.50	0.060
75-34-3	1,1-Dichloroethane	5.85		0.50	0.070
75-35-4	1,1-Dichloroethene	6.16		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	5.17		0.50	0.060
107-06-2	1,2-Dichloroethane	5.19		0.50	0.050
78-87-5	1,2-Dichloropropane	5.94		0.50	0.060
78-93-3	2-Butanone (MEK)	90.9		5.0	0.60
591-78-6	2-Hexanone	88.7		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	88.9		5.0	0.70
67-64-1	Acetone	61.5		5.0	0.90
71-43-2	Benzene	5.82		0.50	0.050
74-97-5	Bromochloromethane	5.13		0.50	0.050
75-27-4	Bromodichloromethane	5.60		0.50	0.050
75-25-2	Bromoform	5.49		1.0	0.30
74-83-9	Bromomethane	5.86		0.50	0.070
75-15-0	Carbon disulfide	6.46		1.0	0.060
56-23-5	Carbon tetrachloride	5.61		0.50	0.070
108-90-7	Chlorobenzene	5.35		0.50	0.060
75-00-3	Chloroethane	6.16		0.50	0.070
67-66-3	Chloroform	5.82		0.50	0.090
74-87-3	Chloromethane	7.44		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	6.25		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	5.60		0.50	0.050
124-48-1	Dibromochloromethane	5.50		0.50	0.070
100-41-4	Ethylbenzene	5.60		0.50	0.060
1634-04-4	Methyl tert-butyl ether	5.25		0.50	0.050
75-09-2	Methylene Chloride	5.86		0.50	0.070
100-42-5	Styrene	5.42		0.50	0.050
127-18-4	Tetrachloroethene	7.48		0.50	0.060
108-88-3	Toluene	5.41		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	5.75		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	5.60		0.50	0.060
79-01-6	Trichloroethene	6.37		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MS Lab Sample ID: 410-45147-6 MS

Matrix: Water Lab File ID: CL06X12.D

Analysis Method: 8260D Date Collected: 06/24/2021 11:40

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 13:57

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	7.41		0.50	0.10
1330-20-7	Xylenes, Total	16.6		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X12.D
Lims ID: 410-45147-A-6 MS
Client ID: HD-COD-SW-15-0/1-0
Sample Type: MS
Inject. Date: 06-Jul-2021 13:57:30 ALS Bottle#: 12 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033571-010
Operator ID: SRK36897 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2021 12:58:11 Calib Date: 13-Apr-2021 23:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1661

First Level Reviewer: innoonk Date: 07-Jul-2021 12:58:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.880	1.885	-0.005	99	405834	5.00	7.03	
3 Chloromethane	50	2.081	2.081	0.000	99	530569	5.00	7.44	
4 Butadiene	39	2.184	2.184	0.000	96	600331	5.00	7.67	
5 Vinyl chloride	62	2.184	2.184	0.000	83	482532	5.00	7.41	
6 Bromomethane	94	2.501	2.495	0.006	92	274451	5.00	5.86	
7 Chloroethane	64	2.568	2.568	0.000	99	262801	5.00	6.16	
8 Dichlorofluoromethane	67	2.806	2.800	0.006	98	630365	5.00	6.41	
9 Trichlorofluoromethane	101	2.867	2.867	0.000	97	514000	5.00	5.79	a
11 Ethyl ether	59	3.074	3.074	0.000	96	256628	5.03	5.32	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.172	3.178	-0.006	96	404492	5.00	5.81	
14 1,1-Dichloroethene	96	3.373	3.373	0.000	95	309037	5.00	6.16	
16 Acetone	43	3.404	3.403	0.001	99	427843	62.6	61.5	
15 112TCTFE	101	3.416	3.416	0.000	93	310145	5.00	5.68	
17 Iodomethane	142	3.562	3.556	0.006	98	512390	5.00	5.23	
18 Isopropyl alcohol	45	3.593	3.580	0.013	29	58552	37.5	35.4	
19 Ethyl bromide	108	3.580	3.580	0.000	98	245713	5.07	5.85	
20 Carbon disulfide	76	3.690	3.684	0.006	100	1105714	5.00	6.46	
22 Methyl acetate	43	3.788	3.788	0.000	97	154915	5.00	10.2	
23 3-Chloro-1-propene	41	3.812	3.812	0.000	90	651596	5.00	7.03	
24 Methylene Chloride	84	3.995	3.989	0.006	98	329757	5.00	5.86	
* 25 t-Butyl alcohol-d10 (IS)	65	4.025	4.044	-0.019	91	150631	50.0	50.0	
26 2-Methyl-2-propanol	59	4.141	4.153	-0.012	94	148478	50.0	55.1	
27 Acrylonitrile	53	4.324	4.324	0.000	99	344016	25.0	34.8	
28 Methyl tert-butyl ether	73	4.379	4.373	0.006	83	867641	5.00	5.25	
29 trans-1,2-Dichloroethene	96	4.379	4.379	0.000	95	331012	5.00	5.75	
30 Hexane	57	4.806	4.806	0.000	97	563775	5.00	6.20	
32 1,1-Dichloroethane	63	5.044	5.049	-0.005	96	637510	5.00	5.85	
33 Isopropyl ether	45	5.105	5.104	0.001	95	1281918	5.00	6.25	
34 2-Chloro-1,3-butadiene	53	5.153	5.159	-0.006	92	595504	5.00	6.03	
35 Tert-butyl ethyl ether	59	5.647	5.647	0.000	99	1090154	5.00	5.46	
36 2-Butanone (MEK)	43	5.867	5.860	0.007	99	1285197	62.6	90.9	
37 cis-1,2-Dichloroethene	96	5.891	5.891	0.000	85	404480	5.00	6.25	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2,2-Dichloropropane	77	5.903	5.903	0.000	91	510994	5.00	5.78	
40 Propionitrile	54	5.976	5.958	0.018	98	170828	37.5	45.8	
43 Methacrylonitrile	67	6.165	6.165	0.000	95	666100	37.5	47.7	
44 Chlorobromomethane	128	6.220	6.226	-0.006	94	147522	5.00	5.13	
45 Tetrahydrofuran	71	6.220	6.226	-0.006	77	124180	25.0	30.5	
46 Chloroform	83	6.379	6.378	0.001	95	606566	5.00	5.82	
$ 47 Dibromofluoromethane (Surr)	113	6.598	6.598	0.000	93	508934	10.0	9.84	
48 1,1,1-Trichloroethane	97	6.598	6.598	0.000	84	514370	5.00	5.61	
49 Cyclohexane	56	6.683	6.689	-0.006	94	687740	5.00	6.28	
50 Carbon tetrachloride	117	6.805	6.805	0.000	94	429313	5.00	5.61	
51 1,1-Dichloropropene	75	6.812	6.817	-0.005	95	505080	5.00	5.93	
52 Isobutyl alcohol	41	7.007	7.006	0.001	94	136585	125.1	136.6	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.049	7.055	-0.006	99	108591	10.0	10.2	
54 Benzene	78	7.074	7.080	-0.006	97	1436854	5.00	5.82	
55 1,2-Dichloroethane	62	7.153	7.159	-0.006	97	381322	5.00	5.19	
56 Tert-amyl methyl ether	73	7.275	7.275	0.000	97	917129	5.00	5.16	
* 57 Fluorobenzene (IS)	96	7.488	7.494	-0.006	98	2184963	10.0	10.0	
58 n-Heptane	43	7.494	7.500	-0.006	96	673132	5.00	6.73	
59 n-Butanol	56	7.915	7.896	0.019	94	212200	250.2	265.7	
60 Trichloroethene	95	7.970	7.976	-0.006	98	398153	5.00	6.37	
61 Methylcyclohexane	83	8.275	8.274	0.001	96	664807	5.00	5.94	
62 1,2-Dichloropropane	63	8.305	8.305	0.000	95	379002	5.00	5.94	
63 2-ethoxy-2-methyl butane	87	8.317	8.323	-0.006	90	499997	5.00	5.05	
64 Methyl methacrylate	69	8.409	8.402	0.007	94	164208	5.00	5.82	
66 Dibromomethane	93	8.421	8.421	0.000	96	160279	5.00	5.38	
65 1,4-Dioxane	88	8.433	8.433	0.000	29	11226	125.1	61.8	
67 Dichlorobromomethane	83	8.659	8.665	-0.006	99	412990	5.00	5.60	
68 2-Nitropropane	41	8.945	8.945	0.000	99	46642	5.00	5.06	
71 1-Bromo-2-chloroethane	63	9.055	9.061	-0.006	99	366988	5.00	6.05	
72 cis-1,3-Dichloropropene	75	9.226	9.225	0.001	93	533886	5.00	5.60	
73 4-Methyl-2-pentanone (MIBK)	43	9.415	9.414	0.001	98	3460494	62.6	88.9	
$ 74 Toluene-d8 (Surr)	98	9.543	9.542	0.001	94	2219937	10.0	10.1	
75 Toluene	92	9.622	9.622	0.000	97	870287	5.00	5.41	
76 trans-1,3-Dichloropropene	75	9.896	9.896	0.000	96	459214	5.00	5.60	
78 Ethyl methacrylate	69	9.963	9.963	0.000	92	370806	5.00	5.33	
79 1,1,2-Trichloroethane	97	10.104	10.103	0.001	91	238216	5.00	5.33	
80 Tetrachloroethene	166	10.183	10.189	-0.006	96	510380	5.00	7.48	
81 1,3-Dichloropropane	76	10.274	10.274	0.000	95	432894	5.00	5.42	
82 2-Hexanone	43	10.329	10.335	-0.006	99	2527376	62.6	88.7	
83 Chlorodibromomethane	129	10.488	10.487	0.001	91	276511	5.00	5.50	
84 Ethylene Dibromide	107	10.597	10.597	0.000	98	222950	5.00	5.17	
* 85 Chlorobenzene-d5 (IS)	117	11.042	11.042	0.000	88	1647469	10.0	10.0	
86 1-Chlorohexane	91	11.055	11.054	0.001	93	491895	5.00	5.31	
87 Chlorobenzene	112	11.067	11.067	0.000	93	971118	5.00	5.35	
89 1,1,1,2-Tetrachloroethane	131	11.152	11.152	0.000	94	314347	5.00	5.19	
90 Ethylbenzene	91	11.158	11.158	0.000	99	1756474	5.00	5.60	
91 m-Xylene & p-Xylene	106	11.274	11.274	0.000	99	1349841	10.0	11.1	
92 o-Xylene	106	11.609	11.609	0.000	97	663284	5.00	5.48	
93 Styrene	104	11.628	11.627	0.001	95	1094976	5.00	5.42	
94 Bromoform	173	11.786	11.786	0.000	96	156846	5.00	5.49	
95 Isopropylbenzene	105	11.914	11.920	-0.006	96	1749176	5.00	5.57	
$ 98 4-Bromofluorobenzene (Surr)	95	12.060	12.060	0.000	88	832107	10.0	9.86	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 1,1,2,2-Tetrachloroethane	83	12.170	12.170	0.000	93	314769	5.00	5.32	
100 Bromobenzene	156	12.176	12.182	-0.006	96	401147	5.00	5.04	
101 trans-1,4-Dichloro-2-butene	53	12.195	12.201	-0.005	91	407378	25.0	23.5	
102 1,2,3-Trichloropropane	110	12.213	12.219	-0.006	82	77911	5.00	4.87	
103 N-Propylbenzene	91	12.249	12.249	0.000	99	2132166	5.00	5.53	
104 2-Chlorotoluene	126	12.329	12.329	0.000	96	409631	5.00	5.14	
105 1,3,5-Trimethylbenzene	105	12.390	12.389	0.001	94	1493557	5.00	5.29	
106 4-Chlorotoluene	126	12.420	12.420	0.000	98	423916	5.00	5.08	
107 tert-Butylbenzene	134	12.634	12.633	0.001	94	302109	5.00	4.95	
109 1,2,4-Trimethylbenzene	105	12.676	12.676	0.000	98	1531391	5.00	5.24	
110 sec-Butylbenzene	105	12.798	12.804	-0.006	95	1979283	5.00	5.47	
111 1,3-Dichlorobenzene	146	12.902	12.902	0.000	98	811921	5.00	5.16	
112 4-Isopropyltoluene	119	12.908	12.908	0.000	97	1718086	5.00	5.46	
* 113 1,4-Dichlorobenzene-d4	152	12.957	12.956	0.001	95	935992	10.0	10.0	
114 1,4-Dichlorobenzene	146	12.975	12.975	0.000	93	818531	5.00	5.07	
115 1,2,3-Trimethylbenzene	120	12.987	12.987	0.000	99	663568	5.00	5.11	
116 Benzyl chloride	126	13.054	13.054	0.000	99	121442	5.00	5.50	
119 n-Butylbenzene	92	13.207	13.206	0.001	98	896193	5.00	5.59	
120 1,2-Dichlorobenzene	146	13.237	13.237	0.000	97	751086	5.00	5.07	
118 p-Diethylbenzene	119	13.255	13.261	-0.006	86	835413	5.00	5.20	
123 1,2-Dibromo-3-Chloropropane	155	13.792	13.792	0.000	81	37451	5.00	4.58	
124 1,3,5-Trichlorobenzene	180	13.914	13.914	0.000	97	660391	5.00	5.12	
125 1,2,4-Trichlorobenzene	180	14.341	14.340	0.001	94	580272	5.00	5.00	
126 Hexachlorobutadiene	225	14.420	14.426	-0.006	98	307740	5.00	5.59	
127 Naphthalene	128	14.523	14.523	0.000	97	967501	5.00	4.63	
128 1,2,3-Trichlorobenzene	180	14.670	14.670	0.000	95	486683	5.00	4.72	
129 2-Methylnaphthalene	142	15.292	15.291	0.001	92	478344	5.00	3.31	
225 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

MSV_Q_ETBR_00008	Amount Added:	5.38	Units: uL	
MSV_Q_EE_00004	Amount Added:	5.38	Units: uL	
MSV_LCS_VOC#1_00008	Amount Added:	5.38	Units: uL	
MSV_QC_Gas826_00011	Amount Added:	5.38	Units: uL	
MSV_HP25_ISSS_00029	Amount Added:	1.00	Units: uL	Run Reagent

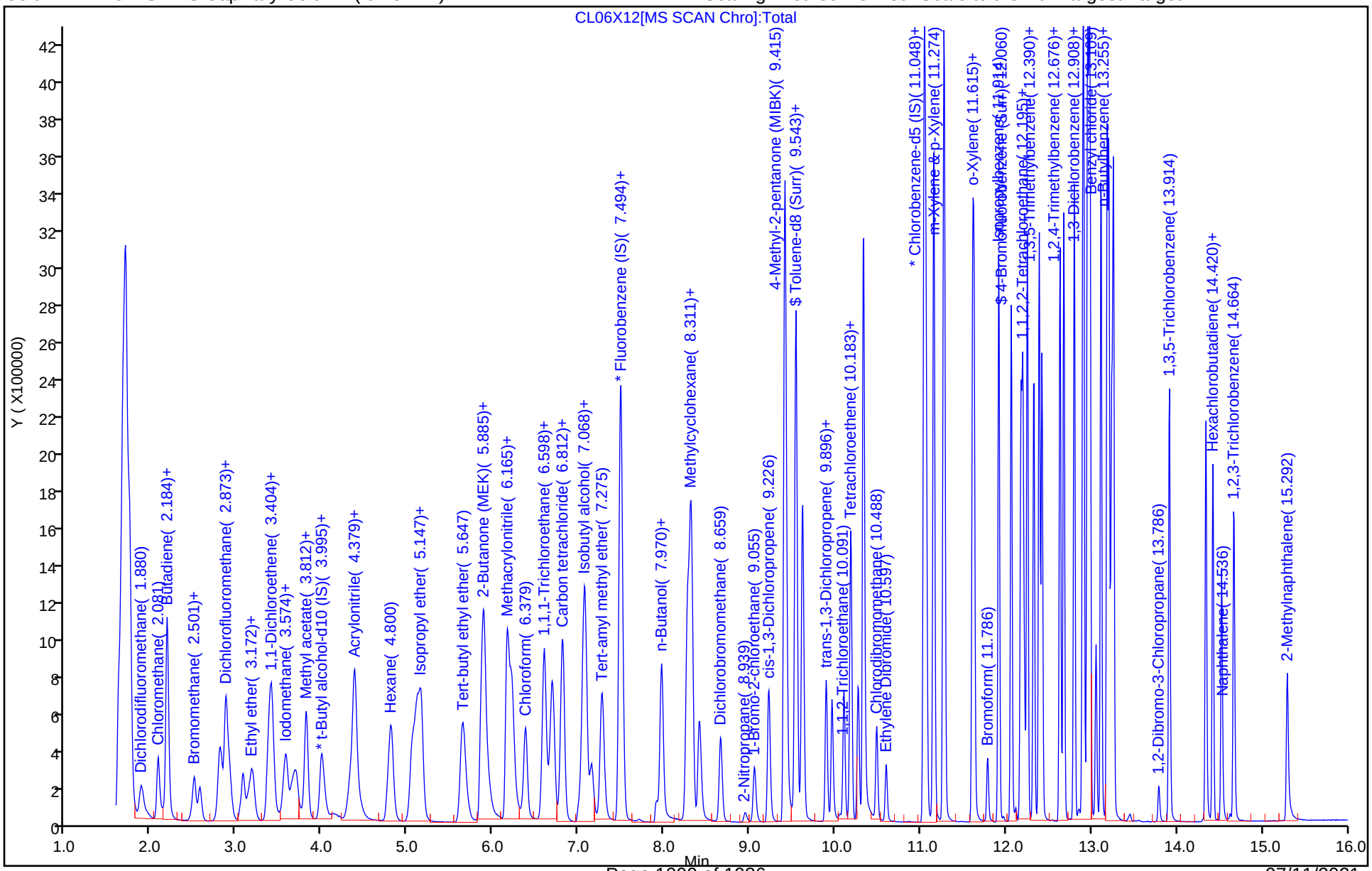
Report Date: 07-Jul-2021 12:58:11 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X12.D

Injection Date:	06-Jul-2021 13:57:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	410-45147-A-6 MS			Worklist Smp#:	10
Client ID:	HD-COD-SW-15-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X12.D
Lims ID: 410-45147-A-6 MS
Client ID: HD-COD-SW-15-0/1-0
Sample Type: MS
Inject. Date: 06-Jul-2021 13:57:30 ALS Bottle#: 12 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033571-010
Operator ID: SRK36897 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2021 12:58:11 Calib Date: 13-Apr-2021 23:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1661

First Level Reviewer: innoonk Date: 07-Jul-2021 12:58:10

Compound	Amount Added	Amount Recovered	% Rec.
$ 47 Dibromofluoromethane (Surr)	10.0	9.84	98.37
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	101.92
$ 74 Toluene-d8 (Surr)	10.0	10.1	100.73
$ 98 4-Bromofluorobenzene (Surr)	10.0	9.86	98.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MSD Lab Sample ID: 410-45147-6 MSD

Matrix: Water Lab File ID: CL06X13.D

Analysis Method: 8260D Date Collected: 06/24/2021 11:40

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 14:20

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.28		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.72		0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	5.33		0.50	0.070
79-00-5	1,1,2-Trichloroethane	5.54		0.50	0.060
75-34-3	1,1-Dichloroethane	6.01		0.50	0.070
75-35-4	1,1-Dichloroethene	6.37		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	5.39		0.50	0.060
107-06-2	1,2-Dichloroethane	5.13		0.50	0.050
78-87-5	1,2-Dichloropropane	6.09		0.50	0.060
78-93-3	2-Butanone (MEK)	81.3		5.0	0.60
591-78-6	2-Hexanone	78.5		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	78.7		5.0	0.70
67-64-1	Acetone	78.0		5.0	0.90
71-43-2	Benzene	5.90		0.50	0.050
74-97-5	Bromochloromethane	5.29		0.50	0.050
75-27-4	Bromodichloromethane	5.72		0.50	0.050
75-25-2	Bromoform	5.54		1.0	0.30
74-83-9	Bromomethane	5.82		0.50	0.070
75-15-0	Carbon disulfide	6.61		1.0	0.060
56-23-5	Carbon tetrachloride	5.68		0.50	0.070
108-90-7	Chlorobenzene	5.49		0.50	0.060
75-00-3	Chloroethane	6.09		0.50	0.070
67-66-3	Chloroform	5.89		0.50	0.090
74-87-3	Chloromethane	7.31		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	6.37		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	5.73		0.50	0.050
124-48-1	Dibromochloromethane	5.70		0.50	0.070
100-41-4	Ethylbenzene	5.73		0.50	0.060
1634-04-4	Methyl tert-butyl ether	5.37		0.50	0.050
75-09-2	Methylene Chloride	5.92		0.50	0.070
100-42-5	Styrene	5.52		0.50	0.050
127-18-4	Tetrachloroethene	7.67		0.50	0.060
108-88-3	Toluene	5.62		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	5.79		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	5.76		0.50	0.060
79-01-6	Trichloroethene	6.44		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-45147-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MSD Lab Sample ID: 410-45147-6 MSD

Matrix: Water Lab File ID: CL06X13.D

Analysis Method: 8260D Date Collected: 06/24/2021 11:40

Sample wt/vol: 25(mL) Date Analyzed: 07/06/2021 14:20

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 145209 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	7.43		0.50	0.10
1330-20-7	Xylenes, Total	16.9		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X13.D
Lims ID: 410-45147-A-6 MSD
Client ID: HD-COD-SW-15-0/1-0
Sample Type: MSD
Inject. Date: 06-Jul-2021 14:20:30 ALS Bottle#: 13 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033571-011
Misc. Info.: 410-45147-A-6 MSD
Operator ID: SRK36897 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2021 12:58:38 Calib Date: 13-Apr-2021 23:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1661

First Level Reviewer: innoonk Date: 07-Jul-2021 12:58:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.879	1.885	-0.006	99	401221	5.00	6.98	
3 Chloromethane	50	2.081	2.081	0.000	99	518859	5.00	7.31	
4 Butadiene	39	2.184	2.184	0.000	97	594363	5.00	7.63	
5 Vinyl chloride	62	2.184	2.184	0.000	83	481971	5.00	7.43	
6 Bromomethane	94	2.501	2.495	0.006	91	271443	5.00	5.82	
7 Chloroethane	64	2.568	2.568	0.000	99	258805	5.00	6.09	
8 Dichlorofluoromethane	67	2.806	2.800	0.006	97	631706	5.00	6.45	
9 Trichlorofluoromethane	101	2.867	2.867	0.000	94	522516	5.00	5.91	a
11 Ethyl ether	59	3.068	3.074	-0.006	95	255705	5.03	5.33	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.178	3.178	0.000	96	408416	5.00	5.89	
14 1,1-Dichloroethene	96	3.379	3.373	0.006	96	317807	5.00	6.37	
16 Acetone	43	3.397	3.403	-0.006	92	625786	62.6	78.0	
15 112TCTFE	101	3.410	3.416	-0.006	94	313325	5.00	5.77	
17 Iodomethane	142	3.568	3.556	0.012	98	510932	5.00	5.24	
18 Isopropyl alcohol	45	3.574	3.580	-0.006	32	68382	37.5	35.9	
19 Ethyl bromide	108	3.580	3.580	0.000	98	263042	5.07	6.29	
20 Carbon disulfide	76	3.690	3.684	0.006	100	1127408	5.00	6.61	
22 Methyl acetate	43	3.794	3.788	0.006	96	125788	5.00	7.15	
23 3-Chloro-1-propene	41	3.812	3.812	0.000	90	660329	5.00	7.16	
24 Methylene Chloride	84	3.995	3.989	0.006	98	331953	5.00	5.92	
* 25 t-Butyl alcohol-d10 (IS)	65	4.031	4.044	-0.013	93	173618	50.0	50.0	
26 2-Methyl-2-propanol	59	4.141	4.153	-0.012	98	157101	50.0	50.6	
27 Acrylonitrile	53	4.324	4.324	0.000	100	349177	25.0	30.6	
28 Methyl tert-butyl ether	73	4.367	4.373	-0.006	94	884301	5.00	5.37	
29 trans-1,2-Dichloroethene	96	4.379	4.379	0.000	95	331321	5.00	5.79	
30 Hexane	57	4.806	4.806	0.000	97	571143	5.00	6.31	
32 1,1-Dichloroethane	63	5.043	5.049	-0.006	96	652038	5.00	6.01	
33 Isopropyl ether	45	5.104	5.104	0.000	95	1285709	5.00	6.30	
34 2-Chloro-1,3-butadiene	53	5.153	5.159	-0.006	93	595446	5.00	6.05	
35 Tert-butyl ethyl ether	59	5.647	5.647	0.000	98	1107872	5.00	5.58	
36 2-Butanone (MEK)	43	5.854	5.860	-0.006	99	1324522	62.6	81.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 cis-1,2-Dichloroethene	96	5.885	5.891	-0.006	84	410279	5.00	6.37	
38 2,2-Dichloropropane	77	5.897	5.903	-0.006	90	509331	5.00	5.78	
40 Propionitrile	54	5.970	5.958	0.012	98	177812	37.5	41.4	
43 Methacrylonitrile	67	6.165	6.165	0.000	95	678007	37.5	42.2	
44 Chlorobromomethane	128	6.214	6.226	-0.012	93	151503	5.00	5.29	
45 Tetrahydrofuran	71	6.220	6.226	-0.006	78	126287	25.0	26.9	
46 Chloroform	83	6.378	6.378	0.000	95	610853	5.00	5.89	
$ 47 Dibromofluoromethane (Surr)	113	6.598	6.598	0.000	93	506486	10.0	9.83	
48 1,1,1-Trichloroethane	97	6.598	6.598	0.000	86	521795	5.00	5.72	
49 Cyclohexane	56	6.689	6.689	0.000	95	692868	5.00	6.35	
50 Carbon tetrachloride	117	6.811	6.805	0.006	96	432139	5.00	5.68	
51 1,1-Dichloropropene	75	6.811	6.817	-0.006	95	510437	5.00	6.02	
52 Isobutyl alcohol	41	7.006	7.006	0.000	93	104376	125.1	90.5	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.049	7.055	-0.006	99	108213	10.0	10.2	
54 Benzene	78	7.073	7.080	-0.007	97	1449455	5.00	5.90	
55 1,2-Dichloroethane	62	7.153	7.159	-0.006	97	375585	5.00	5.13	
56 Tert-amyl methyl ether	73	7.269	7.275	-0.006	97	933043	5.00	5.28	
* 57 Fluorobenzene (IS)	96	7.488	7.494	-0.006	98	2175064	10.0	10.0	
58 n-Heptane	43	7.494	7.500	-0.006	94	676924	5.00	6.80	
59 n-Butanol	56	7.903	7.896	0.007	94	247354	250.2	268.5	
60 Trichloroethene	95	7.970	7.976	-0.006	98	400970	5.00	6.44	
61 Methylcyclohexane	83	8.274	8.274	0.000	95	672776	5.00	6.04	
62 1,2-Dichloropropane	63	8.305	8.305	0.000	95	386748	5.00	6.09	
63 2-ethoxy-2-methyl butane	87	8.317	8.323	-0.006	91	507668	5.00	5.15	
64 Methyl methacrylate	69	8.409	8.402	0.007	95	166639	5.00	5.12	
66 Dibromomethane	93	8.415	8.421	-0.006	98	164431	5.00	5.55	
65 1,4-Dioxane	88	8.518	8.433	0.085	62	12524	125.1	59.8	
67 Dichlorobromomethane	83	8.659	8.665	-0.006	98	420630	5.00	5.72	
68 2-Nitropropane	41	8.945	8.945	0.000	98	48733	5.00	4.59	
71 1-Bromo-2-chloroethane	63	9.055	9.061	-0.006	99	369939	5.00	6.13	
72 cis-1,3-Dichloropropene	75	9.225	9.225	0.000	93	543803	5.00	5.73	
73 4-Methyl-2-pentanone (MIBK)	43	9.414	9.414	0.000	99	3530965	62.6	78.7	
$ 74 Toluene-d8 (Surr)	98	9.542	9.542	0.000	94	2202242	10.0	10.1	
75 Toluene	92	9.622	9.622	0.000	98	893231	5.00	5.62	
76 trans-1,3-Dichloropropene	75	9.896	9.896	0.000	96	466242	5.00	5.76	
78 Ethyl methacrylate	69	9.963	9.963	0.000	92	375845	5.00	5.47	
79 1,1,2-Trichloroethane	97	10.103	10.103	0.000	91	244956	5.00	5.54	
80 Tetrachloroethene	166	10.183	10.189	-0.006	96	516989	5.00	7.67	
81 1,3-Dichloropropane	76	10.268	10.274	-0.006	95	442097	5.00	5.60	
82 2-Hexanone	43	10.329	10.335	-0.006	99	2578104	62.6	78.5	
83 Chlorodibromomethane	129	10.487	10.487	0.000	90	283527	5.00	5.70	
84 Ethylene Dibromide	107	10.597	10.597	0.000	98	229692	5.00	5.39	
* 85 Chlorobenzene-d5 (IS)	117	11.042	11.042	0.000	88	1627941	10.0	10.0	
86 1-Chlorohexane	91	11.054	11.054	0.000	92	503896	5.00	5.50	
87 Chlorobenzene	112	11.067	11.067	0.000	93	984194	5.00	5.49	
89 1,1,1,2-Tetrachloroethane	131	11.152	11.152	0.000	95	315594	5.00	5.28	
90 Ethylbenzene	91	11.158	11.158	0.000	99	1775701	5.00	5.73	
91 m-Xylene & p-Xylene	106	11.274	11.274	0.000	99	1368868	10.0	11.4	
92 o-Xylene	106	11.609	11.609	0.000	97	654249	5.00	5.47	
93 Styrene	104	11.627	11.627	0.000	95	1103869	5.00	5.52	
94 Bromoform	173	11.786	11.786	0.000	96	156579	5.00	5.54	
95 Isopropylbenzene	105	11.914	11.920	-0.006	96	1766670	5.00	5.69	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 98 4-Bromofluorobenzene (Surr)	95	12.060	12.060	0.000	87	838963	10.0	10.1	
99 1,1,2,2-Tetrachloroethane	83	12.170	12.170	0.000	94	311209	5.00	5.33	
100 Bromobenzene	156	12.176	12.182	-0.006	97	400196	5.00	5.09	
101 trans-1,4-Dichloro-2-butene	53	12.194	12.201	-0.006	92	411198	25.0	24.1	
102 1,2,3-Trichloropropane	110	12.213	12.219	-0.006	81	78356	5.00	4.97	
103 N-Propylbenzene	91	12.249	12.249	0.000	99	2150129	5.00	5.65	
104 2-Chlorotoluene	126	12.329	12.329	0.000	96	410237	5.00	5.21	
105 1,3,5-Trimethylbenzene	105	12.389	12.389	0.000	94	1505967	5.00	5.40	
106 4-Chlorotoluene	126	12.420	12.420	0.000	98	426691	5.00	5.18	
107 tert-Butylbenzene	134	12.633	12.633	0.000	94	308518	5.00	5.12	
109 1,2,4-Trimethylbenzene	105	12.676	12.676	0.000	98	1555834	5.00	5.40	
110 sec-Butylbenzene	105	12.798	12.804	-0.006	95	1993607	5.00	5.58	
111 1,3-Dichlorobenzene	146	12.902	12.902	0.000	97	806660	5.00	5.20	
112 4-Isopropyltoluene	119	12.908	12.908	0.000	97	1717460	5.00	5.53	
* 113 1,4-Dichlorobenzene-d4	152	12.956	12.956	0.000	95	923867	10.0	10.0	
114 1,4-Dichlorobenzene	146	12.975	12.975	0.000	94	837095	5.00	5.25	
115 1,2,3-Trimethylbenzene	120	12.987	12.987	0.000	99	669919	5.00	5.23	
116 Benzyl chloride	126	13.054	13.054	0.000	99	124107	5.00	5.70	
119 n-Butylbenzene	92	13.206	13.206	0.000	98	898024	5.00	5.67	
120 1,2-Dichlorobenzene	146	13.237	13.237	0.000	97	761865	5.00	5.21	
118 p-Diethylbenzene	119	13.255	13.261	-0.006	86	838816	5.00	5.29	
123 1,2-Dibromo-3-Chloropropane	155	13.792	13.792	0.000	82	39361	5.00	4.87	
124 1,3,5-Trichlorobenzene	180	13.914	13.914	0.000	97	668082	5.00	5.24	
125 1,2,4-Trichlorobenzene	180	14.340	14.340	0.000	94	592867	5.00	5.18	
126 Hexachlorobutadiene	225	14.420	14.426	-0.006	98	303933	5.00	5.59	
127 Naphthalene	128	14.523	14.523	0.000	97	1009124	5.00	4.89	
128 1,2,3-Trichlorobenzene	180	14.670	14.670	0.000	95	497692	5.00	4.89	
129 2-Methylnaphthalene	142	15.291	15.291	0.000	93	531741	5.00	3.72	
225 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

MSV_Q_ETBR_00008	Amount Added:	5.38	Units: uL	
MSV_Q_EE_00004	Amount Added:	5.38	Units: uL	
MSV_LCS_VOC#1_00008	Amount Added:	5.38	Units: uL	
MSV_QC_Gas826_00011	Amount Added:	5.38	Units: uL	
MSV_HP25_ISSS_00029	Amount Added:	1.00	Units: uL	Run Reagent

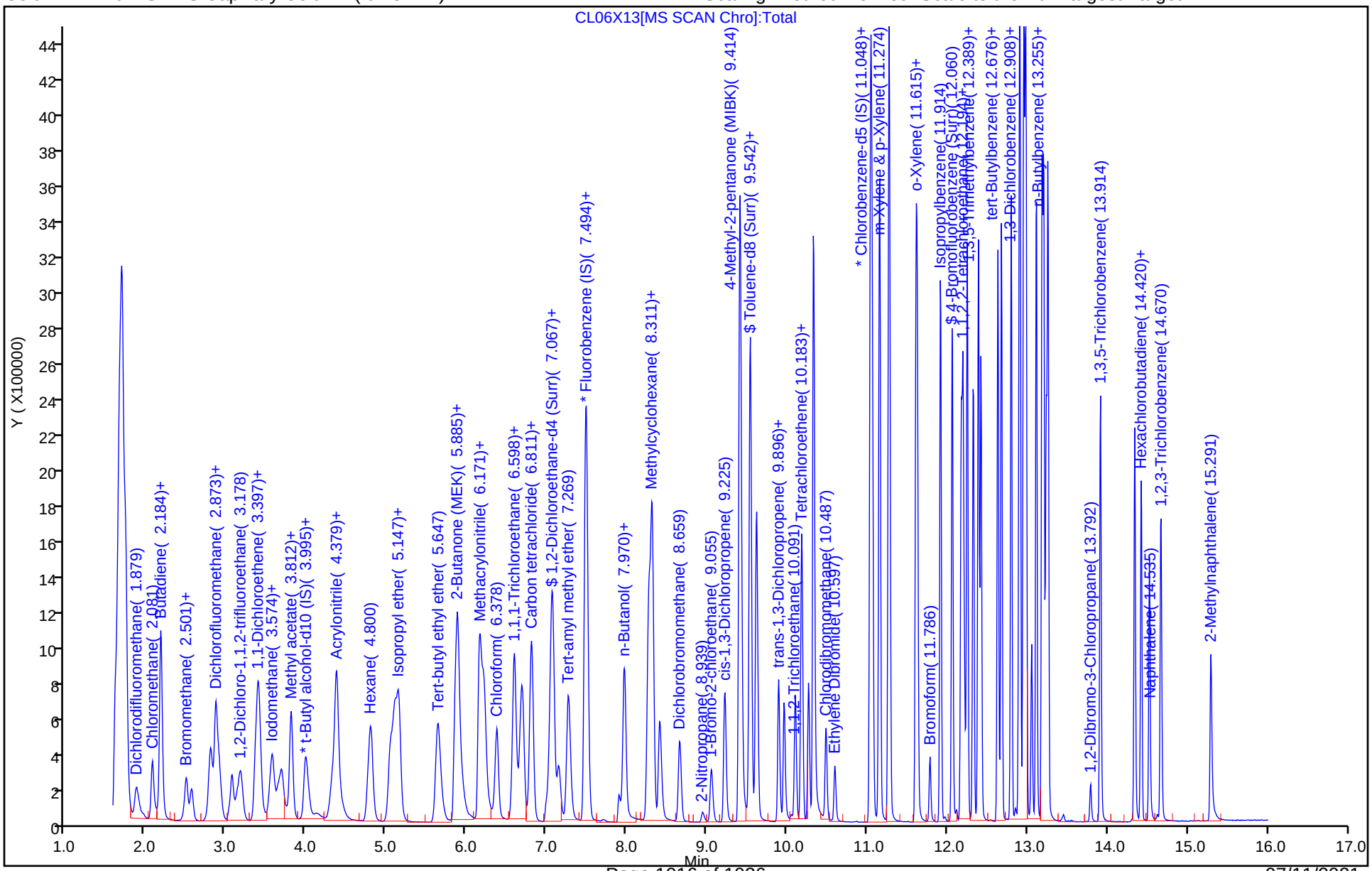
Report Date: 07-Jul-2021 12:58:38 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X13.D

Injection Date:	06-Jul-2021 14:20:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	410-45147-A-6 MSD			Worklist Smp#:	11
Client ID:	HD-COD-SW-15-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\CL06X13.D
Lims ID: 410-45147-A-6 MSD
Client ID: HD-COD-SW-15-0/1-0
Sample Type: MSD
Inject. Date: 06-Jul-2021 14:20:30 ALS Bottle#: 13 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0033571-011
Misc. Info.: 410-45147-A-6 MSD
Operator ID: SRK36897 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20210706-33571.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Jul-2021 12:58:38 Calib Date: 13-Apr-2021 23:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1661

First Level Reviewer: innoonk Date: 07-Jul-2021 12:58:38

Compound	Amount Added	Amount Recovered	% Rec.
$ 47 Dibromofluoromethane (Surr)	10.0	9.83	98.35
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.02
$ 74 Toluene-d8 (Surr)	10.0	10.1	101.12
$ 98 4-Bromofluorobenzene (Surr)	10.0	10.1	100.58

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45147-1

SDG No.:

Instrument ID: 10193 Start Date: 03/11/2021 15:00

Analysis Batch Number: 102081 End Date: 03/11/2021 22:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-102081/1		03/11/2021 15:00	1	CM11T01.D	R-624SilMS 30m 0.25(mm)
IC 410-102081/3		03/11/2021 16:05	1		R-624SilMS 30m 0.25(mm)
IC 410-102081/4		03/11/2021 16:28	1		R-624SilMS 30m 0.25(mm)
IC 410-102081/5		03/11/2021 16:50	1		R-624SilMS 30m 0.25(mm)
IC 410-102081/6		03/11/2021 17:12	1		R-624SilMS 30m 0.25(mm)
IC 410-102081/7		03/11/2021 17:35	1		R-624SilMS 30m 0.25(mm)
IC 410-102081/9		03/11/2021 18:19	1		R-624SilMS 30m 0.25(mm)
ICV 410-102081/10		03/11/2021 18:42	1		R-624SilMS 30m 0.25(mm)
IC 410-102081/12		03/11/2021 19:26	1	CM11X12.D	R-624SilMS 30m 0.25(mm)
ICIS 410-102081/13		03/11/2021 19:49	1	CM11X13.D	R-624SilMS 30m 0.25(mm)
IC 410-102081/14		03/11/2021 20:11	1	CM11X14.D	R-624SilMS 30m 0.25(mm)
IC 410-102081/15		03/11/2021 20:33	1	CM11X15.D	R-624SilMS 30m 0.25(mm)
IC 410-102081/16		03/11/2021 20:55	1	CM11X16.D	R-624SilMS 30m 0.25(mm)
IC 410-102081/17		03/11/2021 21:18	1	CM11X17.D	R-624SilMS 30m 0.25(mm)
IC 410-102081/18		03/11/2021 21:40	1	CM11X18.D	R-624SilMS 30m 0.25(mm)
ICV 410-102081/19		03/11/2021 22:02	1	CM11X19.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45147-1

SDG No.:

Instrument ID: 19094 Start Date: 06/30/2021 14:20

Analysis Batch Number: 143886 End Date: 06/30/2021 21:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-143886/1		06/30/2021 14:20	1	HU30T03.D	R-624SilMS 30m 0.25(mm)
IC 410-143886/4		06/30/2021 15:20	1	HU30I01.D	R-624SilMS 30m 0.25(mm)
IC 410-143886/5		06/30/2021 15:41	1	HU30I02.D	R-624SilMS 30m 0.25(mm)
IC 410-143886/6		06/30/2021 16:02	1	HU30I03.D	R-624SilMS 30m 0.25(mm)
IC 410-143886/7		06/30/2021 16:22	1	HU30I04.D	R-624SilMS 30m 0.25(mm)
IC 410-143886/8		06/30/2021 16:43	1	HU30I05.D	R-624SilMS 30m 0.25(mm)
IC 410-143886/9		06/30/2021 17:04	1	HU30I06.D	R-624SilMS 30m 0.25(mm)
IC 410-143886/10		06/30/2021 17:25	1	HU30I07.D	R-624SilMS 30m 0.25(mm)
ICV 410-143886/11		06/30/2021 17:45	1		R-624SilMS 30m 0.25(mm)
IC 410-143886/14		06/30/2021 18:47	1	HU30I11.D	R-624SilMS 30m 0.25(mm)
ICIS 410-143886/15		06/30/2021 19:08	1	HU30I12.D	R-624SilMS 30m 0.25(mm)
IC 410-143886/16		06/30/2021 19:29	1	HU30I13.D	R-624SilMS 30m 0.25(mm)
IC 410-143886/17		06/30/2021 19:49	1	HU30I14.D	R-624SilMS 30m 0.25(mm)
IC 410-143886/18		06/30/2021 20:10	1	HU30I15.D	R-624SilMS 30m 0.25(mm)
IC 410-143886/19		06/30/2021 20:31	1	HU30I16.D	R-624SilMS 30m 0.25(mm)
IC 410-143886/20		06/30/2021 20:52	1	HU30I17.D	R-624SilMS 30m 0.25(mm)
ICV 410-143886/21		06/30/2021 21:12	1	HU30V11.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45147-1

SDG No.:

Instrument ID: 10193 Start Date: 07/06/2021 09:33

Analysis Batch Number: 145209 End Date: 07/06/2021 21:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-145209/1		07/06/2021 09:33	1	CL06T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-145209/3		07/06/2021 10:14	1	CL06X02.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 11:21	1		R-624SilMS 30m 0.25(mm)
MB 410-145209/7		07/06/2021 11:43	1	CL06X06.D	R-624SilMS 30m 0.25(mm)
LCS 410-145209/4		07/06/2021 12:06	1	CL06X07.D	R-624SilMS 30m 0.25(mm)
LCSD 410-145209/5		07/06/2021 12:28	1	CL06X08.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 13:13	1		R-624SilMS 30m 0.25(mm)
410-45147-6	HD-COD-SW-15-0/1-0	07/06/2021 13:35	1	CL06X11.D	R-624SilMS 30m 0.25(mm)
410-45147-6 MS	HD-COD-SW-15-0/1-0 MS	07/06/2021 13:57	1	CL06X12.D	R-624SilMS 30m 0.25(mm)
410-45147-6 MSD	HD-COD-SW-15-0/1-0 MSD	07/06/2021 14:20	1	CL06X13.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 15:04	5		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 15:27	5		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 15:49	5		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 16:11	50		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 16:33	1000		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 16:56	1000		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 17:18	10000		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 17:40	1		R-624SilMS 30m 0.25(mm)
410-45147-1	HD-COD-SW-6-0/1-0	07/06/2021 18:02	1	CL06X23.D	R-624SilMS 30m 0.25(mm)
410-45147-2	HD-COD-SW-7-0/1-0	07/06/2021 18:25	1	CL06X24.D	R-624SilMS 30m 0.25(mm)
410-45147-3	HD-COD-SW-8-0/1-0	07/06/2021 18:47	1	CL06X25.D	R-624SilMS 30m 0.25(mm)
410-45147-4	HD-COD-SW-9-0/1-0	07/06/2021 19:09	1	CL06X26.D	R-624SilMS 30m 0.25(mm)
410-45147-5	HD-COD-SW-13-0/1-0	07/06/2021 19:32	1	CL06X27.D	R-624SilMS 30m 0.25(mm)
410-45147-7	HD-COD-SW-16-0/1-0	07/06/2021 19:54	1	CL06X28.D	R-624SilMS 30m 0.25(mm)
410-45147-8	HD-COD-SW-17-0/1-0	07/06/2021 20:16	1	CL06X29.D	R-624SilMS 30m 0.25(mm)
410-45147-9	HD-COD-SW-26-0/1-0	07/06/2021 20:38	1	CL06X30.D	R-624SilMS 30m 0.25(mm)
410-45147-10	HD-COD-SW-27-0/1-0	07/06/2021 21:00	1	CL06X31.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/06/2021 21:23	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-45147-1

SDG No.:

Instrument ID: 19094 Start Date: 07/07/2021 08:36

Analysis Batch Number: 145644 End Date: 07/07/2021 19:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-145644/1		07/07/2021 08:36	1	HL07T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-145644/3		07/07/2021 09:13	1	HL07X02.D	R-624SilMS 30m 0.25(mm)
LCS 410-145644/4		07/07/2021 09:34	1	HL07X03.D	R-624SilMS 30m 0.25(mm)
LCSD 410-145644/5		07/07/2021 09:54	1	HL07X04.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 10:15	1		R-624SilMS 30m 0.25(mm)
MB 410-145644/7		07/07/2021 10:36	1	HL07X06.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 10:56	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 11:17	1		R-624SilMS 30m 0.25(mm)
410-45147-14	HD-QC1-0/1-2	07/07/2021 11:38	1	HL07X09.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 11:59	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 12:19	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 12:40	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 13:00	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 13:42	5		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 14:44	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 15:05	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 15:26	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 15:46	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 16:07	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 16:28	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 16:48	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 17:09	10		R-624SilMS 30m 0.25(mm)
410-45147-11	HD-COD-SW-28-0/1-0	07/07/2021 18:53	1	HL07X30.D	R-624SilMS 30m 0.25(mm)
410-45147-12	HD-COD-SW-29-0/1-0	07/07/2021 19:13	1	HL07X31.D	R-624SilMS 30m 0.25(mm)
410-45147-13	HD-QC1-0/1-1	07/07/2021 19:34	1	HL07X32.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/07/2021 19:55	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-45147-1

SDG No.:

Batch Number: 102081 Batch Start Date: 03/11/21 15:00 Batch Analyst: Sposito, Kevin A

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	MSV_HP25_ISSS 00023	MSV_Q_EE 00003	MSV_Q_ETBR 00006
BFB 410-102081/1		8260D		1 uL	1 uL				
IC 410-102081/12		8260D		25 mL	25 mL	0126201F	1 uL		
ICIS 410-102081/13		8260D		25 mL	25 mL	0126201F	1 uL		
IC 410-102081/14		8260D		25 mL	25 mL	0126201F	1 uL		
IC 410-102081/15		8260D		25 mL	25 mL	0126201F	1 uL		
IC 410-102081/16		8260D		25 mL	25 mL	0126201F	1 uL		
IC 410-102081/17		8260D		25 mL	25 mL	0126201F	1 uL		
IC 410-102081/18		8260D		25 mL	25 mL	0126201F	1 uL		
ICV 410-102081/19		8260D		25 mL	25 mL	0126201F	1 uL	12.5 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_Q_QARC 00071	MSV_Q_QVOA1 00071	MSV_Q_QVOA6 00069	MSV_QGAS_826 00114	MSV_RV1_826 00041	MSV_RV4_826 00047
BFB 410-102081/1		8260D							
IC 410-102081/12		8260D						25 uL	25 uL
ICIS 410-102081/13		8260D						10 uL	10 uL
IC 410-102081/14		8260D						5 uL	5 uL
IC 410-102081/15		8260D						2 uL	2 uL
IC 410-102081/16		8260D						2 uL	2 uL
IC 410-102081/17		8260D						2 uL	2 uL
IC 410-102081/18		8260D						2 uL	2 uL
ICV 410-102081/19		8260D		12.5 uL	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.: 410-45147-1

SDG No.:

Batch Number: 102081 Batch Start Date: 03/11/21 15:00 Batch Analyst: Sposito, Kevin A

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_RV4GAS826 00118	MSV_V_BFB 00004				
BFB 410-102081/1		8260D			1 uL				
IC 410-102081/12		8260D		25 uL					
ICIS 410-102081/13		8260D		10 uL					
IC 410-102081/14		8260D		5 uL					
IC 410-102081/15		8260D		2 uL					
IC 410-102081/16		8260D		2 uL					
IC 410-102081/17		8260D		2 uL					
IC 410-102081/18		8260D		2 uL					
ICV 410-102081/19		8260D							

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-45147-1

SDG No.:

Batch Number: 143886 Batch Start Date: 06/30/21 14:20 Batch Analyst: Campbell, Miranda E

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	MSV_DME 00028	MSV_LCS_ACROL 00009	MSV_LCS_Penta 00004
BFB 410-143886/1		8260D		1 uL	1 uL				
IC 410-143886/4		8260D		25 mL	25 mL	2597	2.5 uL		
IC 410-143886/5		8260D		25 mL	25 mL	2597	1 uL		
IC 410-143886/6		8260D		25 mL	25 mL	2597	1 uL		
IC 410-143886/7		8260D		25 mL	25 mL	2597	1 uL		
IC 410-143886/8		8260D		25 mL	25 mL	2597	1 uL		
IC 410-143886/9		8260D		25 mL	25 mL	2597	0.5 uL		
IC 410-143886/10		8260D		25 mL	25 mL	2597	0.2 uL		
IC 410-143886/14		8260D		25 mL	25 mL	2597			
ICIS 410-143886/15		8260D		25 mL	25 mL	2597			
IC 410-143886/16		8260D		25 mL	25 mL	2597			
IC 410-143886/17		8260D		25 mL	25 mL	2597			
IC 410-143886/18		8260D		25 mL	25 mL	2597			
IC 410-143886/19		8260D		25 mL	25 mL	2597			
IC 410-143886/20		8260D		25 mL	25 mL	2597			
ICV 410-143886/21		8260D		25 mL	25 mL	2597		12.5 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_VOC#1 00007	MSV_LL_#1_826 00006	MSV_LL_#2_826 00007	MSV_LL_GAS826 00010	MSV_LLcentISO 00001	MSV_LLcentISS 00001
BFB 410-143886/1		8260D							
IC 410-143886/4		8260D						5 uL	
IC 410-143886/5		8260D						5 uL	
IC 410-143886/6		8260D						5 uL	
IC 410-143886/7		8260D						5 uL	
IC 410-143886/8		8260D						5 uL	
IC 410-143886/9		8260D						5 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-45147-1

SDG No.:

Batch Number: 143886 Batch Start Date: 06/30/21 14:20 Batch Analyst: Campbell, Miranda E

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_VOC#1 00007	MSV_LL_#1_826 00006	MSV_LL_#2_826 00007	MSV_LL_GAS826 00010	MSV_LLcentISO 00001	MSV_LLcentISS 00001
IC 410-143886/10		8260D						5 uL	
IC 410-143886/14		8260D			25 uL	25 uL	25 uL		5 uL
ICIS 410-143886/15		8260D			10 uL	10 uL	10 uL		5 uL
IC 410-143886/16		8260D			5 uL	5 uL	5 uL		5 uL
IC 410-143886/17		8260D			2 uL	2 uL	2 uL		5 uL
IC 410-143886/18		8260D			2 uL	2 uL	2 uL		5 uL
IC 410-143886/19		8260D			2 uL	2 uL	2 uL		5 uL
IC 410-143886/20		8260D			2 uL	2 uL	2 uL		5 uL
ICV 410-143886/21		8260D		12.5 uL					5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_Q_EE 00004	MSV_Q_ETBR 00008	MSV_QC_Gas826 00010	MSV_V_BFB 00005	MSV_V_SMRV4 00023	MSV_V_VOA5 00025
BFB 410-143886/1		8260D					1 uL		
IC 410-143886/4		8260D						12.5 uL	12.5 uL
IC 410-143886/5		8260D						5 uL	5 uL
IC 410-143886/6		8260D						5 uL	5 uL
IC 410-143886/7		8260D						5 uL	5 uL
IC 410-143886/8		8260D						5 uL	5 uL
IC 410-143886/9		8260D						2.5 uL	2.5 uL
IC 410-143886/10		8260D						1 uL	1 uL
IC 410-143886/14		8260D							
ICIS 410-143886/15		8260D							
IC 410-143886/16		8260D							
IC 410-143886/17		8260D							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-45147-1

SDG No.:

Batch Number: 143886 Batch Start Date: 06/30/21 14:20 Batch Analyst: Campbell, Miranda E

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_Q_EE 00004	MSV_Q_ETBR 00008	MSV_QC_Gas826 00010	MSV_V_BFB 00005	MSV_V_SMRV4 00023	MSV_V_VOA5 00025
IC 410-143886/18		8260D							
IC 410-143886/19		8260D							
IC 410-143886/20		8260D							
ICV 410-143886/21		8260D		12.5 uL	12.5 uL	12.5 uL			

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_VAcet 00007	MSV_VCYC 00006				
BFB 410-143886/1		8260D							
IC 410-143886/4		8260D		20 uL	20 uL				
IC 410-143886/5		8260D		8 uL	8 uL				
IC 410-143886/6		8260D		8 uL	8 uL				
IC 410-143886/7		8260D		8 uL	8 uL				
IC 410-143886/8		8260D		8 uL	8 uL				
IC 410-143886/9		8260D		4 uL	4 uL				
IC 410-143886/10		8260D		1.6 uL	1.6 uL				
IC 410-143886/14		8260D							
ICIS 410-143886/15		8260D							
IC 410-143886/16		8260D							
IC 410-143886/17		8260D							
IC 410-143886/18		8260D							
IC 410-143886/19		8260D							
IC 410-143886/20		8260D							
ICV 410-143886/21		8260D							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-45147-1

SDG No.:

Batch Number: 143886 Batch Start Date: 06/30/21 14:20 Batch Analyst: Campbell, Miranda E

Batch Method: 8260D Batch End Date:

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-45147-1

SDG No.:

Batch Number: 145209 Batch Start Date: 07/06/21 09:33 Batch Analyst: Becker, Kari

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-145209/1		8260D		1 uL	1 uL				
CCVIS 410-145209/3		8260D		25 mL	25 mL				2597
LCS 410-145209/4		8260D		25 mL	25 mL				2597
LCSD 410-145209/5		8260D		25 mL	25 mL				2597
MB 410-145209/7		8260D		25 mL	25 mL				2597
410-45147-A-6	HD-COD-SW-15-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-45147-A-6 MS	HD-COD-SW-15-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-45147-A-6 MSD	HD-COD-SW-15-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-45147-A-1	HD-COD-SW-6-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-45147-A-2	HD-COD-SW-7-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-45147-A-3	HD-COD-SW-8-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-45147-A-4	HD-COD-SW-9-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-45147-A-5	HD-COD-SW-13-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-45147-A-7	HD-COD-SW-16-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-45147-A-8	HD-COD-SW-17-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-45147-A-9	HD-COD-SW-26-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-45147-A-10	HD-COD-SW-27-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_HP25_ISSS 00029	MSV_LCS_VOC#1 00008	MSV_LL_#1_826 00004	MSV_LL_#2_826 00007	MSV_LL_GAS826 00011	MSV_Q_EE 00004
BFB 410-145209/1		8260D							
CCVIS 410-145209/3		8260D		1 uL		25 uL	25 uL	25 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.: 410-45147-1

SDG No.:

Batch Number: 145209 Batch Start Date: 07/06/21 09:33 Batch Analyst: Becker, Kari

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_HP25_ISSS 00029	MSV_LCS_VOC#1 00008	MSV_LL_#1_826 00004	MSV_LL_#2_826 00007	MSV_LL_GAS826 00011	MSV_Q_EE 00004
LCS 410-145209/4		8260D		1 uL	12.5 uL				12.5 uL
LCSD 410-145209/5		8260D		1 uL	12.5 uL				12.5 uL
MB 410-145209/7		8260D		1 uL					
410-45147-A-6	HD-COD-SW-15-0/1-0	8260D	T	1 uL					
410-45147-A-6 MS	HD-COD-SW-15-0/1-0	8260D	T	1 uL	5.38 uL				5.38 uL
410-45147-A-6 MSD	HD-COD-SW-15-0/1-0	8260D	T	1 uL	5.38 uL				5.38 uL
410-45147-A-1	HD-COD-SW-6-0/1-0	8260D	T	1 uL					
410-45147-A-2	HD-COD-SW-7-0/1-0	8260D	T	1 uL					
410-45147-A-3	HD-COD-SW-8-0/1-0	8260D	T	1 uL					
410-45147-A-4	HD-COD-SW-9-0/1-0	8260D	T	1 uL					
410-45147-A-5	HD-COD-SW-13-0/1-0	8260D	T	1 uL					
410-45147-A-7	HD-COD-SW-16-0/1-0	8260D	T	1 uL					
410-45147-A-8	HD-COD-SW-17-0/1-0	8260D	T	1 uL					
410-45147-A-9	HD-COD-SW-26-0/1-0	8260D	T	1 uL					
410-45147-A-10	HD-COD-SW-27-0/1-0	8260D	T	1 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_Q_ETBR 00008	MSV_QC_Gas826 00011	MSV_V_BFB 00005			
BFB 410-145209/1		8260D				1 uL			
CCVIS 410-145209/3		8260D							
LCS 410-145209/4		8260D		12.5 uL	12.5 uL				
LCSD 410-145209/5		8260D		12.5 uL	12.5 uL				
MB 410-145209/7		8260D							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-45147-1

SDG No.:

Batch Number: 145209 Batch Start Date: 07/06/21 09:33 Batch Analyst: Becker, Kari

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_Q_ETBR 00008	MSV_QC_Gas826 00011	MSV_V_BFB 00005			
410-45147-A-6	HD-COD-SW-15-0/1-0	8260D	T						
410-45147-A-6 MS	HD-COD-SW-15-0/1-0	8260D	T	5.38 uL	5.38 uL				
410-45147-A-6 MSD	HD-COD-SW-15-0/1-0	8260D	T	5.38 uL	5.38 uL				
410-45147-A-1	HD-COD-SW-6-0/1-0	8260D	T						
410-45147-A-2	HD-COD-SW-7-0/1-0	8260D	T						
410-45147-A-3	HD-COD-SW-8-0/1-0	8260D	T						
410-45147-A-4	HD-COD-SW-9-0/1-0	8260D	T						
410-45147-A-5	HD-COD-SW-13-0/1-0	8260D	T						
410-45147-A-7	HD-COD-SW-16-0/1-0	8260D	T						
410-45147-A-8	HD-COD-SW-17-0/1-0	8260D	T						
410-45147-A-9	HD-COD-SW-26-0/1-0	8260D	T						
410-45147-A-10	HD-COD-SW-27-0/1-0	8260D	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-45147-1

SDG No.:

Batch Number: 145644 Batch Start Date: 07/07/21 08:36 Batch Analyst: Knouse, Shian

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-145644/1		8260D		1 uL	1 uL				
CCVIS 410-145644/3		8260D		25 mL	25 mL				2597
LCS 410-145644/4		8260D		25 mL	25 mL				2597
LCSD 410-145644/5		8260D		25 mL	25 mL				2597
MB 410-145644/7		8260D		25 mL	25 mL				2597
410-45147-A-14	HD-QC1-0/1-2	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-45147-A-11	HD-COD-SW-28-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-45147-A-12	HD-COD-SW-29-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-45147-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	MSV_LCS_ACROL 00009	MSV_LCS_VOC#1 00008	MSV_LL_#1_826 00006	MSV_LL_#2_826 00007	MSV_LL_GAS826 00011	MSV_LLcentISS 00001
BFB 410-145644/1		8260D							
CCVIS 410-145644/3		8260D				25 uL	25 uL	25 uL	5 uL
LCS 410-145644/4		8260D		12.5 uL	12.5 uL				5 uL
LCSD 410-145644/5		8260D		12.5 uL	12.5 uL				5 uL
MB 410-145644/7		8260D							5 uL
410-45147-A-14	HD-QC1-0/1-2	8260D	T						5 uL
410-45147-A-11	HD-COD-SW-28-0/1-0	8260D	T						5 uL
410-45147-A-12	HD-COD-SW-29-0/1-0	8260D	T						5 uL
410-45147-A-13	HD-QC1-0/1-1	8260D	T						5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_Q_EE 00004	MSV_Q_ETBR 00008	MSV_QC_Gas826 00011	MSV_V_BFB 00005		
BFB 410-145644/1		8260D					1 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-45147-1

SDG No.:

Batch Number: 145644 Batch Start Date: 07/07/21 08:36 Batch Analyst: Knouse, Shian

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_Q_EE 00004	MSV_Q_ETBR 00008	MSV_QC_Gas826 00011	MSV_V_BFB 00005		
CCVIS 410-145644/3		8260D							
LCS 410-145644/4		8260D		12.5 uL	12.5 uL	12.5 uL			
LCSD 410-145644/5		8260D		12.5 uL	12.5 uL	12.5 uL			
MB 410-145644/7		8260D							
410-45147-A-14	HD-QC1-0/1-2	8260D	T						
410-45147-A-11	HD-COD-SW-28-0/1-0	8260D	T						
410-45147-A-12	HD-COD-SW-29-0/1-0	8260D	T						
410-45147-A-13	HD-QC1-0/1-1	8260D	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Environme [barcode] uest/Chain of Custody

eurofins | Lancaster Laboratories Environmental

410-45147 Chain of Custody

Acct. # __ ple # __

Client:	Groundwater Sciences Corporation		
Project Name/#:	fYNOP Monthly Surface Water	Site ID #:	fYNOP, York PA
Project Manager:	Chris O'Neil	P.O. #:	10012.42
Sampler:	Casey Littlefield / ~~Erin Peeling~~ KELLY MORGANO	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	6/24/21	1055	X					X						3	X	
HD-COD-SW-7-0/1-0		1120	X					X						3	X	
HD-COD-SW-8-0/1-0		0925	X					X						3	X	
HD-COD-SW-9-0/1-0		1230	X					X						3	X	
HD-COD-SW-13-0/1-0		0940	X					X						3	X	
HD-COD-SW-15-0/1-0		1140	X					X						3	X	
HD-COD-SW-15-0/1-0 MS		1140	X					X						3	X	
HD-COD-SW-15-0/1-0 MSD		1140	X					X						3	X	
HD-COD-SW-16-0/1-0		0955	X					X						3	X	
HD-COD-SW-17-0/1-0		1005	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:

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
[signature]	6/25/21	0815	Christopher D. O'Neil	06/25/21	0815
Christopher D. O'Neil	06/25/21	11:55	[signature]	6/25/21	1655
[signature]	6/25/21	1333			
			[signature]	6/25/21	16:02

Relinquished by Commercial Carrier:

UPS ____ FedEx ____ Other ____

Temperature upon receipt -0.2 °C

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # _____ Group # _____ Sample # _____

Client:	Groundwater Sciences Corporation		
Project Name/#:	fYNOP Monthly Surface Water	Site ID #:	fYNOP, York PA
Project Manager:	Chris O'Neil	P.O. #:	10012.42
Sampler:	Casey Littlefield / ~~Erin Peeling~~ Kelly Morgano	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)	Remarks
HD-COD-SW-26-0/1-0	6/24/21	1110	X					X					3	X	
HD-COD-SW-27-0/1-0		1130	X					X					3	X	
HD-COD-SW-28-0/1-0		1245	X					X					3	X	
HD-COD-SW-29-0/1-0		0910	X					X					3	X	
HD-QC1-0/1-1		1200	X					X					3	X	DUPLICATE
HD-QC1-0/1-2	↓	—	X									X	2	X	TRIP BLANK

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

For Lab Use Only: SF #: _____ SCR #: _____

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address:

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category	☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: CLP Like Deliverables, Project Specific Analyte List

Relinquished by:	Date	Time	Received by:	Date	Time
			Christopher D. O'Neil	06/25/21	0815
Christopher D. O'Neil	06/25/21	11:55	[signature]	6/25/21	1155
[signature]	6/25/21	1333			

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.2 °C

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-45147-1

Login Number: 45147

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Lugardo, Tamara

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature 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	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	