Greenfield Environmental Multistate Trust LLC
Trustee of the Multistate Environmental Response Trust
Greenfield Environmental Trust Group, Inc., Member
P.O. Box 723, Durham, NH 03824
(602) 312-6993
tl@g-etg.com

April 15, 2022

By Email—Daniel.Hedrick@cityutilities.net

Mr. Daniel Hedrick
Director of Environmental Affairs
City Utilities of Springfield, Missouri
PO Box 551
Springfield, MO 65801-0551

Subject: **Submission of Laboratory Results for Fulbright Spring and Fulbright Well #1**
Greenfield Environmental Multistate Trust LLC—Springfield Facility
Former Tronox/Kerr-McGee Facility; 2800 West High Street, Springfield, Missouri
MHWMF Part I Permit No. MOD007129406

Dear Mr. Hedrick:

Greenfield Environmental Multistate Trust LLC, Trustee of the Multistate Environmental Response Trust (the Multistate Trust), respectfully submits the laboratory results obtained from samples collected on March 3, 2022, from the City Utilities of Springfield's (City Utilities) Fulbright Spring and Fulbright Well #1 pursuant to the Missouri Department of Natural Resources (MoDNR)-approved *Final Off-Facility Investigation Work Plan* (dated July 31, 2019) for the Greenfield Environmental Multistate Trust LLC—Springfield Facility, also known as the Former Tronox/Kerr-McGee Facility located at 2800 West High Street, in Springfield, Missouri with Missouri Hazardous Waste Management Facility (MHWMF) Part I Permit No. MOD007129406.

The samples were submitted to Eurofins Lancaster Laboratories Env, LLC for semivolatile organic compound analysis by U.S. Environmental Protection Agency (EPA) Method 8270D and volatile organic compound analysis by EPA Method 8260C. Except for Di-n-butylphthalate in the Fulbright Well #1 sample, all chemicals were nondetect below the laboratory reporting limits and the applicable groundwater protection standards. Di-n-butylphthalate was detected above the method detection limit but below the laboratory reporting limit; thus, it was reported as an estimated concentration. Di-n-butylphthalate is added to plastics to increase flexibility and is found in certain consumer products; it is not a Facility-related chemical of concern. A table summarizing the laboratory analytical results, the laboratory reports (level 2 and level 4), and the data usability summary and validation report are enclosed.

If you have any questions or concerns, please contact me at (602) 312-6993 or tl@g-etg.com or Lauri Gorton at (414) 732-4514 or lg@g-etg.com.

Sincerely,

Greenfield Environmental Multistate Trust LLC
Trustee of the Multistate Environmental Response Trust
By: Greenfield Environmental Trust Group, Inc., Member

Tasha Lewis
Portfolio Manager and Project Manager

Enclosures: Table 1. Summary of Laboratory Analytical Results
Laboratory Reports (Level 2 and Level 4)
Data Usability Summary and Validation Report

cc: Cynthia Brooks—Multistate Trust
Keith Brodock—Integral Consulting Inc.
Tim Davis—Greene County
Barbara Garcia—Environmental Works, Inc.
Lauri Gorton—Multistate Trust
Jillian Hunt—MoDNR
Craig Kaufman—Multistate Trust
Errin Kemper—City of Springfield
Nathan Kraus—MoDNR
Jan Millington—City of Springfield
Richard Nussbaum—MoDNR
Elizabeth Robertson—City Utilities
Abby Sawyer—MoDNR
Robert Wilson—City Utilities

Table 1. Summary of Laboratory Analytical Results (Q1-2022)
Fulbright Spring and Fulbright Well #1
Springfield, Missouri

Station Name	CAS Number	Units	GWPS	FBS010	FBW001
Sample Date				3/3/2022	3/3/2022
VOCs					
1,1,1-Trichloroethane	71-55-6	ug/l		<0.3	<0.3
1,1,2,2-Tetrachloroethane	79-34-5	ug/l		<0.3	<0.3
1,1,2-Trichloroethane	79-00-5	ug/l		<0.3	<0.3
1,1-Dichloroethane	75-34-3	ug/l		<0.3	<0.3
1,1-Dichloroethene	75-35-4	ug/l		<0.3	<0.3
1,2,4-Trichlorobenzene	120-82-1	ug/l		<0.3	<0.3
1,2,4-Trimethylbenzene	95-63-6	ug/l		<1	<1
1,2-Dibromo-3-chloropropane	96-12-8	ug/l		<0.3	<0.3
1,2-Dibromoethane	106-93-4	ug/l		<0.2	<0.2
1,2-Dichlorobenzene	95-50-1	ug/l		<0.2	<0.2
1,2-Dichloroethane	107-06-2	ug/l		<0.3	<0.3
1,2-Dichloropropane	78-87-5	ug/l		<0.3	<0.3
1,3,5-Trimethylbenzene	108-67-8	ug/l		<0.3	<0.3
1,3-Dichlorobenzene	541-73-1	ug/l		<0.3	<0.3
1,4-Dichlorobenzene	106-46-7	ug/l		<0.3	<0.3
2-Butanone	78-93-3	ug/l		<0.5	<0.5
2-Hexanone	591-78-6	ug/l		<0.4	<0.4
4-Methyl-2-pentanone	108-10-1	ug/l		<0.5	<0.5
Acetone	67-64-1	ug/l		<0.7	<0.7
Benzene	71-43-2	ug/l	5	<0.3	<0.3
Bromodichloromethane	75-27-4	ug/l		<0.2	<0.2
Bromoform	75-25-2	ug/l		<1	<1
Bromomethane	74-83-9	ug/l		<0.3	<0.3
Carbon Disulfide	75-15-0	ug/l		<0.3	<0.3
Carbon Tetrachloride	56-23-5	ug/l		<0.3	<0.3
Chlorobenzene	108-90-7	ug/l		<0.3	<0.3
Chloroethane	75-00-3	ug/l		<0.2	<0.2
Chloroform	67-66-3	ug/l		<0.3	<0.3
Chloromethane	74-87-3	ug/l		<0.2	<0.2
cis-1,2-Dichloroethene	156-59-2	ug/l		<0.3	<0.3
cis-1,3-Dichloropropene	10061-01-5	ug/l		<0.2	<0.2
Cyclohexane	110-82-7	ug/l		<1	<1
Dibromochloromethane	124-48-1	ug/l		<0.2	<0.2
Dichlorodifluoromethane	75-71-8	ug/l		<0.2	<0.2
Ethylbenzene	100-41-4	ug/l	700	<0.4	<0.4
Freon 113	76-13-1	ug/l		<0.3	<0.3
Isopropylbenzene	98-82-8	ug/l		<0.2	<0.2
Methyl Acetate	79-20-9	ug/l		<0.3	<0.3
Methyl Tertiary Butyl Ether	1634-04-4	ug/l		<0.2	<0.2
Methylcyclohexane	108-87-2	ug/l		<0.5	<0.5
Methylene Chloride	75-09-2	ug/l		<0.3	<0.3
Styrene	100-42-5	ug/l		<0.3	<0.3
Tetrachloroethene	127-18-4	ug/l		<0.3	<0.3
Toluene	108-88-3	ug/l	1,000	<0.2	<0.2
trans-1,2-Dichloroethene	156-60-5	ug/l		<0.3	<0.3
trans-1,3-Dichloropropene	10061-02-6	ug/l		<0.2	<0.2
Trichloroethene	79-01-6	ug/l		<0.3	<0.3
Trichlorofluoromethane	75-69-4	ug/l		<0.2	<0.2
Vinyl Chloride	75-01-4	ug/l		<0.2	<0.2
Xylenes	1330-20-7	ug/l	10,000	<0.4	<0.4

Table 1. Summary of Laboratory Analytical Results (Q1-2022)
Fulbright Spring and Fulbright Well #1
Springfield, Missouri

Station Name	CAS Number	Units	GWPS	FBS010	FBW001
Sample Date				3/3/2022	3/3/2022
Semi-VOCs					
1,4-Dioxane	123-91-1	ug/l		<0.1	<0.1
1-Methylnaphthalene	90-12-0	ug/l		<0.02	<0.02
2,4-Dimethylphenol	105-67-9	ug/l	540	<3	<3
2,4-Dinitrophenol	51-28-5	ug/l	70	<14	<14
2-Chlorophenol	95-57-8	ug/l	0.5	<0.5	<0.5
2-Methylnaphthalene	91-57-6	ug/l	36	<0.02	<0.02
Acenaphthene	83-32-9	ug/l	1,200	<0.01	<0.01
Acenaphthylene	208-96-8	ug/l		<0.01	<0.01
Anthracene	120-12-7	ug/l	9,600	<0.01	<0.01
Benzo(a)anthracene	56-55-3	ug/l	0.1	<0.01	<0.01
Benzo(a)pyrene	50-32-8	ug/l	0.1	<0.01	<0.01
Benzo(b)fluoranthene	205-99-2	ug/l	0.1	<0.01	<0.01
Benzo(g,h,i)perylene	191-24-2	ug/l		<0.01	<0.01
Benzo(k)fluoranthene	207-08-9	ug/l	0.1	<0.01	<0.01
bis(2-Chloroethyl)ether	111-44-4	ug/l		<0.02	<0.02
bis(2-Ethylhexyl)phthalate	117-81-7	ug/l		<0.05	<0.05
Butylbenzylphthalate	85-68-7	ug/l		<0.05	<0.05
Carbazole	86-74-8	ug/l		<0.5	<0.5
Chrysene	218-01-9	ug/l	0.1	<0.01	<0.01
Dibenz(a,h)anthracene	53-70-3	ug/l	0.1	<0.02	<0.02
Dibenzofuran	132-64-9	ug/l	7.9	<0.01	<0.01
Diethylphthalate	84-66-2	ug/l		<0.05	<0.05
Dimethylphthalate	131-11-3	ug/l		<0.05	<0.05
Di-n-butylphthalate	84-74-2	ug/l		<0.05	0.051 J CN
Di-n-octylphthalate	117-84-0	ug/l		<0.05	<0.05
Fluoranthene	206-44-0	ug/l	300	<0.01	<0.01
Fluorene	86-73-7	ug/l	1,300	<0.01	<0.01
Hexachlorobenzene	118-74-1	ug/l		<0.02	<0.02
Indeno(1,2,3-cd)pyrene	193-39-5	ug/l	0.1	<0.02	<0.02
Naphthalene	91-20-3	ug/l	20	<0.03	<0.03
N-Nitrosodimethylamine	62-75-9	ug/l		<0.02	<0.02
Phenanthrene	85-01-8	ug/l		<0.03	<0.03
Phenol	108-95-2	ug/l	300	<0.5	<0.5
Pyrene	129-00-0	ug/l	960	<0.01	<0.01

NOTES:

CN - Refer to Case Narrative for further detail

J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

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ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-74987-1
Client Project/Site: Springfield, MO- 1H2022 Groundwater Sampling Event

For:
Environmental Works, Inc.
1455 East Chestnut Expressway
Springfield, Missouri 65802

Attn: Jack Jackson

Authorized for release by:
3/14/2022 6:38:15 PM

Hannah Cottman, Operations Support Specialist
(717)556-7383
Hannah.Cottman@eurofinset.com

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

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

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

This report shall not be reproduced except in full, without the written approval of the laboratory.

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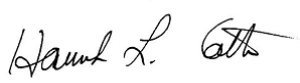

Hannah Cottman
Operations Support Specialist
3/14/2022 6:38:15 PM

Table of Contents

Definitions/Glossary

Client: Environmental Works, Inc. Job ID: 410-74987-1
Project/Site: Springfield, MO- 1H2022 Groundwater Sampling Event

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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

Case Narrative

Client: Environmental Works, Inc. Job ID: 410-74987-1
Project/Site: Springfield, MO- 1H2022 Groundwater Sampling Event

Job ID: 410-74987-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-74987-1

Receipt
The samples were received on 3/4/2022 10:32 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 410-233094 recovered above the upper control limit for 2-Butanone, 2-Hexanone and 4-Methyl-2-pentanone. 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.

GC/MS Semi VOA
Method 8270D_SIM: The continuing calibration verification (CCV) associated with batch 410-231826 recovered above the upper control limit for Dibenz(a,h)anthracene and N-Nitrosodimethylamine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

Detection Summary

Client: Environmental Works, Inc.
Job ID: 410-74987-1
Project/Site: Springfield, MO- 1H2022 Groundwater Sampling Event

Client Sample ID: FBW001_03032022
Lab Sample ID: 410-74987-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	0.051	J cn	1.0	0.050	ug/L	1		8270D SIM	Total/NA

Client Sample ID: FBS010_03032022
Lab Sample ID: 410-74987-2

No Detections.

Client Sample ID: Trip Blank
Lab Sample ID: 410-74987-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Environmental Works, Inc.
Job ID: 410-74987-1
Project/Site: Springfield, MO- 1H2022 Groundwater Sampling Event

Client Sample ID: FBW001_03032022
Lab Sample ID: 410-74987-1
Date Collected: 03/03/22 09:20
Matrix: Water
Date Received: 03/04/22 10:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
1,1,2,2-Tetrachloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
1,1,2-Trichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
1,1-Dichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
1,1-Dichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
1,2,4-Trichlorobenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:09	1
1,2,4-Trimethylbenzene	ND	cn	5.0	1.0	ug/L			03/14/22 16:09	1
1,2-Dibromo-3-Chloropropane	ND	cn	5.0	0.30	ug/L			03/14/22 16:09	1
1,2-Dibromoethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1
1,2-Dichlorobenzene	ND	cn	5.0	0.20	ug/L			03/14/22 16:09	1
1,2-Dichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
1,2-Dichloropropane	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
1,3,5-Trimethylbenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:09	1
1,3-Dichlorobenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:09	1
1,4-Dichlorobenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:09	1
2-Butanone	ND	cn	10	0.50	ug/L			03/14/22 16:09	1
2-Hexanone	ND	cn	10	0.40	ug/L			03/14/22 16:09	1
4-Methyl-2-pentanone	ND	cn	10	0.50	ug/L			03/14/22 16:09	1
Acetone	ND	cn	20	0.70	ug/L			03/14/22 16:09	1
Benzene	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
Bromodichloromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1
Bromoform	ND	cn	4.0	1.0	ug/L			03/14/22 16:09	1
Bromomethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
Carbon disulfide	ND	cn	5.0	0.30	ug/L			03/14/22 16:09	1
Carbon tetrachloride	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
Chlorobenzene	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
Chloroethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1
Chloroform	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
Chloromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1
cis-1,2-Dichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
cis-1,3-Dichloropropene	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1
Cyclohexane	ND	cn	5.0	1.0	ug/L			03/14/22 16:09	1
Dibromochloromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1
Dichlorodifluoromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1
Ethylbenzene	ND	cn	1.0	0.40	ug/L			03/14/22 16:09	1
Freon 113	ND	cn	10	0.30	ug/L			03/14/22 16:09	1
Isopropylbenzene	ND	cn	5.0	0.20	ug/L			03/14/22 16:09	1
Methyl acetate	ND	cn	5.0	0.30	ug/L			03/14/22 16:09	1
Methyl tertiary butyl ether	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1
Methylcyclohexane	ND	cn	5.0	0.50	ug/L			03/14/22 16:09	1
Methylene Chloride	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
Styrene	ND	cn	5.0	0.30	ug/L			03/14/22 16:09	1
Tetrachloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
Toluene	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1
trans-1,2-Dichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
trans-1,3-Dichloropropene	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1
Trichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
Trichlorofluoromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1

Client Sample ID: FBW001_03032022 Lab Sample ID: 410-74987-1

Date Collected: 03/03/22 09:20 **Matrix: Water**
Date Received: 03/04/22 10:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1
Xylenes, Total	ND	cn	1.0	0.40	ug/L			03/14/22 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*	*cn*	*80 - 120*		*03/14/22 16:09*	*1*
4-Bromofluorobenzene (Surr)	*99*	*cn*	*80 - 120*		*03/14/22 16:09*	*1*
Dibromofluoromethane (Surr)	*98*	*cn*	*80 - 120*		*03/14/22 16:09*	*1*
Toluene-d8 (Surr)	*102*	*cn*	*80 - 120*		*03/14/22 16:09*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND	cn	0.30	0.10	ug/L		03/09/22 09:51	03/09/22 23:15	1
1-Methylnaphthalene	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:15	1
2-Methylnaphthalene	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:15	1
Acenaphthene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Acenaphthylene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Anthracene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Benzo[a]anthracene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Benzo[a]pyrene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Benzo[b]fluoranthene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Benzo[g,h,i]perylene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Benzo[k]fluoranthene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Bis(2-chloroethyl)ether	ND	*+ cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:15	1
Bis(2-ethylhexyl) phthalate	ND	cn	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:15	1
Butylbenzylphthalate	ND	cn	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:15	1
Chrysene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Dibenz(a,h)anthracene	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:15	1
Dibenzofuran	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Diethylphthalate	ND	cn	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:15	1
Dimethylphthalate	ND	cn	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:15	1
Di-n-butyl phthalate	**0.051**	**J cn**	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:15	1
Di-n-octyl phthalate	ND	cn	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:15	1
Fluoranthene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Fluorene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Hexachlorobenzene	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:15	1
Indeno[1,2,3-cd]pyrene	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:15	1
Naphthalene	ND	cn	0.071	0.030	ug/L		03/09/22 09:51	03/09/22 23:15	1
N-Nitrosodimethylamine	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:15	1
Phenanthrene	ND	cn	0.071	0.030	ug/L		03/09/22 09:51	03/09/22 23:15	1
Pyrene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*66*	*cn*	*36 - 111*	*03/09/22 09:51*	*03/09/22 23:15*	*1*
Benzo(a)pyrene-d12 (Surr)	*77*	*cn*	*10 - 110*	*03/09/22 09:51*	*03/09/22 23:15*	*1*
Fluoranthene-d10 (Surr)	*84*	*cn*	*47 - 128*	*03/09/22 09:51*	*03/09/22 23:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		10	3.0	ug/L		03/09/22 09:52	03/09/22 23:29	1

Client: Environmental Works, Inc.
Job ID: 410-74987-1
Project/Site: Springfield, MO- 1H2022 Groundwater Sampling Event

Client Sample ID: FBW001_03032022
Lab Sample ID: 410-74987-1
Date Collected: 03/03/22 09:20
Matrix: Water
Date Received: 03/04/22 10:32

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		30	14	ug/L		03/09/22 09:52	03/09/22 23:29	1
2-Chlorophenol	ND		2.0	0.50	ug/L		03/09/22 09:52	03/09/22 23:29	1
Carbazole	ND		2.0	0.50	ug/L		03/09/22 09:52	03/09/22 23:29	1
Phenol	ND		2.0	0.50	ug/L		03/09/22 09:52	03/09/22 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*77*		*10 - 150*	*03/09/22 09:52*	*03/09/22 23:29*	*1*
2-Fluorobiphenyl (Surr)	*65*		*44 - 120*	*03/09/22 09:52*	*03/09/22 23:29*	*1*
2-Fluorophenol (Surr)	*36*		*10 - 120*	*03/09/22 09:52*	*03/09/22 23:29*	*1*
Nitrobenzene-d5 (Surr)	*63*		*25 - 125*	*03/09/22 09:52*	*03/09/22 23:29*	*1*
Phenol-d5 (Surr)	*25*		*10 - 120*	*03/09/22 09:52*	*03/09/22 23:29*	*1*
p-Terphenyl-d14 (Surr)	*81*		*37 - 120*	*03/09/22 09:52*	*03/09/22 23:29*	*1*

Client: Environmental Works, Inc.
Job ID: 410-74987-1
Project/Site: Springfield, MO- 1H2022 Groundwater Sampling Event

Client Sample ID: FBS010_03032022
Lab Sample ID: 410-74987-2
Date Collected: 03/03/22 09:30
Matrix: Water
Date Received: 03/04/22 10:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
1,1,2,2-Tetrachloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
1,1,2-Trichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
1,1-Dichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
1,1-Dichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
1,2,4-Trichlorobenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:31	1
1,2,4-Trimethylbenzene	ND	cn	5.0	1.0	ug/L			03/14/22 16:31	1
1,2-Dibromo-3-Chloropropane	ND	cn	5.0	0.30	ug/L			03/14/22 16:31	1
1,2-Dibromoethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1
1,2-Dichlorobenzene	ND	cn	5.0	0.20	ug/L			03/14/22 16:31	1
1,2-Dichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
1,2-Dichloropropane	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
1,3,5-Trimethylbenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:31	1
1,3-Dichlorobenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:31	1
1,4-Dichlorobenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:31	1
2-Butanone	ND	cn	10	0.50	ug/L			03/14/22 16:31	1
2-Hexanone	ND	cn	10	0.40	ug/L			03/14/22 16:31	1
4-Methyl-2-pentanone	ND	cn	10	0.50	ug/L			03/14/22 16:31	1
Acetone	ND	cn	20	0.70	ug/L			03/14/22 16:31	1
Benzene	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
Bromodichloromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1
Bromoform	ND	cn	4.0	1.0	ug/L			03/14/22 16:31	1
Bromomethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
Carbon disulfide	ND	cn	5.0	0.30	ug/L			03/14/22 16:31	1
Carbon tetrachloride	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
Chlorobenzene	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
Chloroethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1
Chloroform	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
Chloromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1
cis-1,2-Dichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
cis-1,3-Dichloropropene	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1
Cyclohexane	ND	cn	5.0	1.0	ug/L			03/14/22 16:31	1
Dibromochloromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1
Dichlorodifluoromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1
Ethylbenzene	ND	cn	1.0	0.40	ug/L			03/14/22 16:31	1
Freon 113	ND	cn	10	0.30	ug/L			03/14/22 16:31	1
Isopropylbenzene	ND	cn	5.0	0.20	ug/L			03/14/22 16:31	1
Methyl acetate	ND	cn	5.0	0.30	ug/L			03/14/22 16:31	1
Methyl tertiary butyl ether	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1
Methylcyclohexane	ND	cn	5.0	0.50	ug/L			03/14/22 16:31	1
Methylene Chloride	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
Styrene	ND	cn	5.0	0.30	ug/L			03/14/22 16:31	1
Tetrachloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
Toluene	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1
trans-1,2-Dichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
trans-1,3-Dichloropropene	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1
Trichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
Trichlorofluoromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1

Client Sample ID: FBS010_03032022 Lab Sample ID: 410-74987-2

Date Collected: 03/03/22 09:30 **Matrix: Water**
Date Received: 03/04/22 10:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1
Xylenes, Total	ND	cn	1.0	0.40	ug/L			03/14/22 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*	*cn*	*80 - 120*		*03/14/22 16:31*	*1*
4-Bromofluorobenzene (Surr)	*98*	*cn*	*80 - 120*		*03/14/22 16:31*	*1*
Dibromofluoromethane (Surr)	*99*	*cn*	*80 - 120*		*03/14/22 16:31*	*1*
Toluene-d8 (Surr)	*101*	*cn*	*80 - 120*		*03/14/22 16:31*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND	cn	0.30	0.10	ug/L		03/09/22 09:51	03/09/22 23:45	1
1-Methylnaphthalene	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:45	1
2-Methylnaphthalene	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:45	1
Acenaphthene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Acenaphthylene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Anthracene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Benzo[a]anthracene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Benzo[a]pyrene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Benzo[b]fluoranthene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Benzo[g,h,i]perylene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Benzo[k]fluoranthene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Bis(2-chloroethyl)ether	ND	*+ cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:45	1
Bis(2-ethylhexyl) phthalate	ND	cn	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:45	1
Butylbenzylphthalate	ND	cn	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:45	1
Chrysene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Dibenz(a,h)anthracene	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:45	1
Dibenzofuran	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Diethylphthalate	ND	cn	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:45	1
Dimethylphthalate	ND	cn	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:45	1
Di-n-butyl phthalate	ND	cn	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:45	1
Di-n-octyl phthalate	ND	cn	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:45	1
Fluoranthene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Fluorene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Hexachlorobenzene	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:45	1
Indeno[1,2,3-cd]pyrene	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:45	1
Naphthalene	ND	cn	0.071	0.030	ug/L		03/09/22 09:51	03/09/22 23:45	1
N-Nitrosodimethylamine	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:45	1
Phenanthrene	ND	cn	0.071	0.030	ug/L		03/09/22 09:51	03/09/22 23:45	1
Pyrene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*65*	*cn*	*36 - 111*	*03/09/22 09:51*	*03/09/22 23:45*	*1*
Benzo(a)pyrene-d12 (Surr)	*69*	*cn*	*10 - 110*	*03/09/22 09:51*	*03/09/22 23:45*	*1*
Fluoranthene-d10 (Surr)	*79*	*cn*	*47 - 128*	*03/09/22 09:51*	*03/09/22 23:45*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		10	3.0	ug/L		03/09/22 09:52	03/09/22 23:51	1

Client: Environmental Works, Inc.
Job ID: 410-74987-1
Project/Site: Springfield, MO- 1H2022 Groundwater Sampling Event

Client Sample ID: FBS010_03032022
Lab Sample ID: 410-74987-2
Date Collected: 03/03/22 09:30
Matrix: Water
Date Received: 03/04/22 10:32

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		30	14	ug/L		03/09/22 09:52	03/09/22 23:51	1
2-Chlorophenol	ND		2.0	0.50	ug/L		03/09/22 09:52	03/09/22 23:51	1
Carbazole	ND		2.0	0.50	ug/L		03/09/22 09:52	03/09/22 23:51	1
Phenol	ND		2.0	0.50	ug/L		03/09/22 09:52	03/09/22 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*74*		*10 - 150*	*03/09/22 09:52*	*03/09/22 23:51*	*1*
2-Fluorobiphenyl (Surr)	*65*		*44 - 120*	*03/09/22 09:52*	*03/09/22 23:51*	*1*
2-Fluorophenol (Surr)	*39*		*10 - 120*	*03/09/22 09:52*	*03/09/22 23:51*	*1*
Nitrobenzene-d5 (Surr)	*68*		*25 - 125*	*03/09/22 09:52*	*03/09/22 23:51*	*1*
Phenol-d5 (Surr)	*26*		*10 - 120*	*03/09/22 09:52*	*03/09/22 23:51*	*1*
p-Terphenyl-d14 (Surr)	*75*		*37 - 120*	*03/09/22 09:52*	*03/09/22 23:51*	*1*

Client: Environmental Works, Inc.
Job ID: 410-74987-1
Project/Site: Springfield, MO- 1H2022 Groundwater Sampling Event

Client Sample ID: Trip Blank
Lab Sample ID: 410-74987-3
Date Collected: 03/03/22 00:00
Matrix: Water
Date Received: 03/04/22 10:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
1,1,2,2-Tetrachloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
1,1,2-Trichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
1,1-Dichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
1,1-Dichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
1,2,4-Trichlorobenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:53	1
1,2,4-Trimethylbenzene	ND	cn	5.0	1.0	ug/L			03/14/22 16:53	1
1,2-Dibromo-3-Chloropropane	ND	cn	5.0	0.30	ug/L			03/14/22 16:53	1
1,2-Dibromoethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
1,2-Dichlorobenzene	ND	cn	5.0	0.20	ug/L			03/14/22 16:53	1
1,2-Dichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
1,2-Dichloropropane	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
1,3,5-Trimethylbenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:53	1
1,3-Dichlorobenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:53	1
1,4-Dichlorobenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:53	1
2-Butanone	ND	cn	10	0.50	ug/L			03/14/22 16:53	1
2-Hexanone	ND	cn	10	0.40	ug/L			03/14/22 16:53	1
4-Methyl-2-pentanone	ND	cn	10	0.50	ug/L			03/14/22 16:53	1
Acetone	ND	cn	20	0.70	ug/L			03/14/22 16:53	1
Benzene	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
Bromodichloromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
Bromoform	ND	cn	4.0	1.0	ug/L			03/14/22 16:53	1
Bromomethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
Carbon disulfide	ND	cn	5.0	0.30	ug/L			03/14/22 16:53	1
Carbon tetrachloride	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
Chlorobenzene	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
Chloroethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
Chloroform	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
Chloromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
cis-1,2-Dichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
cis-1,3-Dichloropropene	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
Cyclohexane	ND	cn	5.0	1.0	ug/L			03/14/22 16:53	1
Dibromochloromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
Dichlorodifluoromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
Ethylbenzene	ND	cn	1.0	0.40	ug/L			03/14/22 16:53	1
Freon 113	ND	cn	10	0.30	ug/L			03/14/22 16:53	1
Isopropylbenzene	ND	cn	5.0	0.20	ug/L			03/14/22 16:53	1
Methyl acetate	ND	cn	5.0	0.30	ug/L			03/14/22 16:53	1
Methyl tertiary butyl ether	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
Methylcyclohexane	ND	cn	5.0	0.50	ug/L			03/14/22 16:53	1
Methylene Chloride	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
Styrene	ND	cn	5.0	0.30	ug/L			03/14/22 16:53	1
Tetrachloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
Toluene	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
trans-1,2-Dichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
trans-1,3-Dichloropropene	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
Trichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
Trichlorofluoromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1

Client: Environmental Works, Inc.
Job ID: 410-74987-1
Project/Site: Springfield, MO- 1H2022 Groundwater Sampling Event

Client Sample ID: Trip Blank
Lab Sample ID: 410-74987-3
Date Collected: 03/03/22 00:00
Matrix: Water
Date Received: 03/04/22 10:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
Xylenes, Total	ND	cn	1.0	0.40	ug/L			03/14/22 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*	*cn*	*80 - 120*		*03/14/22 16:53*	*1*
4-Bromofluorobenzene (Surr)	*98*	*cn*	*80 - 120*		*03/14/22 16:53*	*1*
Dibromofluoromethane (Surr)	*100*	*cn*	*80 - 120*		*03/14/22 16:53*	*1*
Toluene-d8 (Surr)	*102*	*cn*	*80 - 120*		*03/14/22 16:53*	*1*

Action Limit Summary

Client: Environmental Works, Inc.
Job ID: 410-74987-1
Project/Site: Springfield, MO- 1H2022 Groundwater Sampling Event

Client Sample ID: FBW001_03032022
Lab Sample ID: 410-74987-1

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Action Limit	RL	Method	Prep Type
Benzene	ND	cn	ug/L	5	1.0	8260C	Total/NA
Ethylbenzene	ND	cn	ug/L	700	1.0	8260C	Total/NA
Toluene	ND	cn	ug/L	1000	1.0	8260C	Total/NA
Xylenes, Total	ND	cn	ug/L	10000	1.0	8260C	Total/NA
2-Methylnaphthalene	ND	cn	ug/L	36	0.050	8270D SIM	Total/NA
Acenaphthene	ND	cn	ug/L	1200	0.050	8270D SIM	Total/NA
Anthracene	ND	cn	ug/L	9600	0.050	8270D SIM	Total/NA
Benzo[a]anthracene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Benzo[a]pyrene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Benzo[b]fluoranthene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Benzo[k]fluoranthene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Chrysene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Dibenz(a,h)anthracene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Dibenzofuran	ND	cn	ug/L	7.9	0.050	8270D SIM	Total/NA
Fluoranthene	ND	cn	ug/L	300	0.050	8270D SIM	Total/NA
Fluorene	ND	cn	ug/L	1300	0.050	8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Naphthalene	ND	cn	ug/L	20	0.071	8270D SIM	Total/NA
Pyrene	ND	cn	ug/L	960	0.050	8270D SIM	Total/NA
2,4-Dimethylphenol	ND		ug/L	540	10	8270D	Total/NA
2,4-Dinitrophenol	ND		ug/L	70	30	8270D	Total/NA
2-Chlorophenol	ND		ug/L	0.5	2.0	8270D	Total/NA
Phenol	ND		ug/L	300	2.0	8270D	Total/NA

Client Sample ID: FBS010_03032022
Lab Sample ID: 410-74987-2

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Action Limit	RL	Method	Prep Type
Benzene	ND	cn	ug/L	5	1.0	8260C	Total/NA
Ethylbenzene	ND	cn	ug/L	700	1.0	8260C	Total/NA
Toluene	ND	cn	ug/L	1000	1.0	8260C	Total/NA
Xylenes, Total	ND	cn	ug/L	10000	1.0	8260C	Total/NA
2-Methylnaphthalene	ND	cn	ug/L	36	0.050	8270D SIM	Total/NA
Acenaphthene	ND	cn	ug/L	1200	0.050	8270D SIM	Total/NA
Anthracene	ND	cn	ug/L	9600	0.050	8270D SIM	Total/NA
Benzo[a]anthracene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Benzo[a]pyrene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Benzo[b]fluoranthene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Benzo[k]fluoranthene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Chrysene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Dibenz(a,h)anthracene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Dibenzofuran	ND	cn	ug/L	7.9	0.050	8270D SIM	Total/NA
Fluoranthene	ND	cn	ug/L	300	0.050	8270D SIM	Total/NA
Fluorene	ND	cn	ug/L	1300	0.050	8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA

Action Limit Summary

Client: Environmental Works, Inc.
Job ID: 410-74987-1
Project/Site: Springfield, MO- 1H2022 Groundwater Sampling Event

Client Sample ID: FBS010_03032022 (Continued)
Lab Sample ID: 410-74987-2

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Action Limit	RL	Method	Prep Type
Naphthalene	ND	cn	ug/L	20	0.071	8270D SIM	Total/NA
Pyrene	ND	cn	ug/L	960	0.050	8270D SIM	Total/NA
2,4-Dimethylphenol	ND		ug/L	540	10	8270D	Total/NA
2,4-Dinitrophenol	ND		ug/L	70	30	8270D	Total/NA
2-Chlorophenol	ND		ug/L	0.5	2.0	8270D	Total/NA
Phenol	ND		ug/L	300	2.0	8270D	Total/NA

Client Sample ID: Trip Blank
Lab Sample ID: 410-74987-3

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Action Limit	RL	Method	Prep Type
Benzene	ND	cn	ug/L	5	1.0	8260C	Total/NA
Ethylbenzene	ND	cn	ug/L	700	1.0	8260C	Total/NA
Toluene	ND	cn	ug/L	1000	1.0	8260C	Total/NA
Xylenes, Total	ND	cn	ug/L	10000	1.0	8260C	Total/NA

Surrogate Summary

Client: Environmental Works, Inc.
Job ID: 410-74987-1
Project/Site: Springfield, MO- 1H2022 Groundwater Sampling Event

Method: 8260C - 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)
410-74987-1	FBW001_03032022	103 cn	99 cn	98 cn	102 cn
410-74987-2	FBS010_03032022	108 cn	98 cn	99 cn	101 cn
410-74987-3	Trip Blank	104 cn	98 cn	100 cn	102 cn
LCS 410-233094/4	Lab Control Sample	103	100	98	101
LCSD 410-233094/5	Lab Control Sample Dup	105	100	101	101
MB 410-233094/7	Method Blank	106	99	99	101

Surrogate Legend

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

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(44-120)	(10-120)	(25-125)	(10-120)	(37-120)
410-74987-1	FBW001_03032022	77	65	36	63	25	81
410-74987-2	FBS010_03032022	74	65	39	68	26	75
LCS 410-231598/2-A	Lab Control Sample	85	73	59	75	43	91
LCSD 410-231598/3-A	Lab Control Sample Dup	85	74	55	74	39	89
MB 410-231598/1-A	Method Blank	84	65	42	68	27	87

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		MNPd10	BAPd12	FLN10
Lab Sample ID	Client Sample ID	(36-111)	(10-110)	(47-128)
410-74987-1	FBW001_03032022	66 cn	77 cn	84 cn
410-74987-2	FBS010_03032022	65 cn	69 cn	79 cn
LCS 410-231594/2-A	Lab Control Sample	62	82	72
LCSD 410-231594/3-A	Lab Control Sample Dup	79	94	87
MB 410-231594/1-A	Method Blank	65	81	78

Surrogate Legend

MNPd10 = 1-Methylnaphthalene-d10 (Surr)
BAPd12 = Benzo(a)pyrene-d12 (Surr)
FLN10 = Fluoranthene-d10 (Surr)

Client: Environmental Works, Inc.
Job ID: 410-74987-1
Project/Site: Springfield, MO- 1H2022 Groundwater Sampling Event

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

Lab Sample ID: MB 410-233094/7
Matrix: Water
Analysis Batch: 233094

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-Trichloroethane	ND		1.0	0.30	ug/L			03/14/22 11:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			03/14/22 11:03	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			03/14/22 11:03	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			03/14/22 11:03	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			03/14/22 11:03	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			03/14/22 11:03	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			03/14/22 11:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			03/14/22 11:03	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			03/14/22 11:03	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			03/14/22 11:03	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			03/14/22 11:03	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			03/14/22 11:03	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			03/14/22 11:03	1
1,3-Dichlorobenzene	ND		5.0	0.30	ug/L			03/14/22 11:03	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			03/14/22 11:03	1
2-Butanone	ND		10	0.50	ug/L			03/14/22 11:03	1
2-Hexanone	ND		10	0.40	ug/L			03/14/22 11:03	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			03/14/22 11:03	1
Acetone	ND		20	0.70	ug/L			03/14/22 11:03	1
Benzene	ND		1.0	0.30	ug/L			03/14/22 11:03	1
Bromodichloromethane	ND		1.0	0.20	ug/L			03/14/22 11:03	1
Bromoform	ND		4.0	1.0	ug/L			03/14/22 11:03	1
Bromomethane	ND		1.0	0.30	ug/L			03/14/22 11:03	1
Carbon disulfide	ND		5.0	0.30	ug/L			03/14/22 11:03	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			03/14/22 11:03	1
Chlorobenzene	ND		1.0	0.30	ug/L			03/14/22 11:03	1
Chloroethane	ND		1.0	0.20	ug/L			03/14/22 11:03	1
Chloroform	ND		1.0	0.30	ug/L			03/14/22 11:03	1
Chloromethane	ND		1.0	0.20	ug/L			03/14/22 11:03	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			03/14/22 11:03	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/14/22 11:03	1
Cyclohexane	ND		5.0	1.0	ug/L			03/14/22 11:03	1
Dibromochloromethane	ND		1.0	0.20	ug/L			03/14/22 11:03	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			03/14/22 11:03	1
Ethylbenzene	ND		1.0	0.40	ug/L			03/14/22 11:03	1
Freon 113	ND		10	0.30	ug/L			03/14/22 11:03	1
Isopropylbenzene	ND		5.0	0.20	ug/L			03/14/22 11:03	1
Methyl acetate	ND		5.0	0.30	ug/L			03/14/22 11:03	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			03/14/22 11:03	1
Methylcyclohexane	ND		5.0	0.50	ug/L			03/14/22 11:03	1
Methylene Chloride	ND		1.0	0.30	ug/L			03/14/22 11:03	1
Styrene	ND		5.0	0.30	ug/L			03/14/22 11:03	1
Tetrachloroethene	ND		1.0	0.30	ug/L			03/14/22 11:03	1
Toluene	ND		1.0	0.20	ug/L			03/14/22 11:03	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/L			03/14/22 11:03	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/14/22 11:03	1
Trichloroethene	ND		1.0	0.30	ug/L			03/14/22 11:03	1

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

Lab Sample ID: MB 410-233094/7
Matrix: Water
Analysis Batch: 233094

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		1.0	0.20	ug/L			03/14/22 11:03	1
Vinyl chloride	ND		1.0	0.20	ug/L			03/14/22 11:03	1
Xylenes, Total	ND		1.0	0.40	ug/L			03/14/22 11:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*03/14/22 11:03*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*03/14/22 11:03*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*03/14/22 11:03*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/14/22 11:03*	*1*

Lab Sample ID: LCS 410-233094/4
Matrix: Water
Analysis Batch: 233094

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-Trichloroethane	20.0	18.3		ug/L		91	67 - 126
1,1,2,2-Tetrachloroethane	20.0	18.7		ug/L		93	72 - 120
1,1,2-Trichloroethane	20.0	19.5		ug/L		97	80 - 120
1,1-Dichloroethane	20.0	19.8		ug/L		99	80 - 120
1,1-Dichloroethene	20.0	19.0		ug/L		95	80 - 131
1,2,4-Trichlorobenzene	20.0	19.2		ug/L		96	63 - 120
1,2,4-Trimethylbenzene	20.0	18.1		ug/L		90	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	17.9		ug/L		89	47 - 131
1,2-Dibromoethane	20.0	19.3		ug/L		96	77 - 120
1,2-Dichlorobenzene	20.0	18.5		ug/L		92	80 - 120
1,2-Dichloroethane	20.0	19.8		ug/L		99	73 - 124
1,2-Dichloropropane	20.0	20.2		ug/L		101	80 - 120
1,3,5-Trimethylbenzene	20.0	18.1		ug/L		90	75 - 120
1,3-Dichlorobenzene	20.0	18.7		ug/L		94	80 - 120
1,4-Dichlorobenzene	20.0	19.1		ug/L		96	80 - 120
2-Butanone	250	325		ug/L		130	59 - 135
2-Hexanone	250	327		ug/L		131	56 - 135
4-Methyl-2-pentanone	250	314		ug/L		126	62 - 133
Acetone	250	223		ug/L		89	54 - 157
Benzene	20.0	19.7		ug/L		98	80 - 120
Bromodichloromethane	20.0	19.6		ug/L		98	71 - 120
Bromoform	20.0	20.5		ug/L		103	51 - 120
Bromomethane	20.0	16.2		ug/L		81	53 - 128
Carbon disulfide	20.0	22.7		ug/L		114	65 - 128
Carbon tetrachloride	20.0	18.2		ug/L		91	64 - 134
Chlorobenzene	20.0	19.1		ug/L		96	80 - 120
Chloroethane	20.0	17.3		ug/L		87	55 - 123
Chloroform	20.0	19.1		ug/L		96	80 - 120
Chloromethane	20.0	17.8		ug/L		89	56 - 121
cis-1,2-Dichloroethene	20.0	19.5		ug/L		97	80 - 125
cis-1,3-Dichloropropene	20.0	20.0		ug/L		100	75 - 120
Cyclohexane	20.0	19.4		ug/L		97	68 - 126

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

Lab Sample ID: LCS 410-233094/4
Matrix: Water
Analysis Batch: 233094

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromochloromethane	20.0	19.6		ug/L		98	71 - 120
Dichlorodifluoromethane	20.0	14.1		ug/L		71	41 - 127
Ethylbenzene	20.0	19.2		ug/L		96	80 - 120
Freon 113	20.0	18.4		ug/L		92	73 - 139
Isopropylbenzene	20.0	19.2		ug/L		96	80 - 120
Methyl acetate	20.0	27.2		ug/L		136	54 - 136
Methyl tertiary butyl ether	20.0	20.8		ug/L		104	69 - 122
Methylcyclohexane	20.0	18.2		ug/L		91	67 - 121
Methylene Chloride	20.0	19.5		ug/L		98	80 - 120
Styrene	20.0	19.1		ug/L		96	80 - 120
Tetrachloroethene	20.0	19.6		ug/L		98	80 - 120
Toluene	20.0	19.0		ug/L		95	80 - 120
trans-1,2-Dichloroethene	20.0	18.7		ug/L		94	80 - 126
trans-1,3-Dichloropropene	20.0	20.4		ug/L		102	67 - 120
Trichloroethene	20.0	18.8		ug/L		94	80 - 120
Trichlorofluoromethane	20.0	16.1		ug/L		80	55 - 135
Vinyl chloride	20.0	16.3		ug/L		81	56 - 120
Xylenes, Total	60.0	57.2		ug/L		95	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 410-233094/5
Matrix: Water
Analysis Batch: 233094

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-Trichloroethane	20.0	18.1		ug/L		91	67 - 126	1	30
1,1,2,2-Tetrachloroethane	20.0	18.7		ug/L		93	72 - 120	0	30
1,1,2-Trichloroethane	20.0	19.1		ug/L		96	80 - 120	2	30
1,1-Dichloroethane	20.0	19.9		ug/L		99	80 - 120	0	30
1,1-Dichloroethene	20.0	19.3		ug/L		96	80 - 131	1	30
1,2,4-Trichlorobenzene	20.0	18.6		ug/L		93	63 - 120	3	30
1,2,4-Trimethylbenzene	20.0	18.2		ug/L		91	75 - 120	1	30
1,2-Dibromo-3-Chloropropane	20.0	17.7		ug/L		88	47 - 131	1	30
1,2-Dibromoethane	20.0	18.6		ug/L		93	77 - 120	3	30
1,2-Dichlorobenzene	20.0	18.7		ug/L		93	80 - 120	1	30
1,2-Dichloroethane	20.0	19.7		ug/L		98	73 - 124	1	30
1,2-Dichloropropane	20.0	20.5		ug/L		102	80 - 120	1	30
1,3,5-Trimethylbenzene	20.0	18.3		ug/L		92	75 - 120	1	30
1,3-Dichlorobenzene	20.0	18.6		ug/L		93	80 - 120	1	30
1,4-Dichlorobenzene	20.0	18.9		ug/L		94	80 - 120	1	30
2-Butanone	250	315		ug/L		126	59 - 135	3	30
2-Hexanone	250	317		ug/L		127	56 - 135	3	30

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

Lab Sample ID: LCSD 410-233094/5
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 233094

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone			250	310		ug/L		124	62 - 133	1	30
Acetone			250	218		ug/L		87	54 - 157	2	30
Benzene			20.0	19.8		ug/L		99	80 - 120	1	30
Bromodichloromethane			20.0	19.4		ug/L		97	71 - 120	1	30
Bromoform			20.0	19.8		ug/L		99	51 - 120	4	30
Bromomethane			20.0	16.2		ug/L		81	53 - 128	0	30
Carbon disulfide			20.0	22.7		ug/L		113	65 - 128	0	30
Carbon tetrachloride			20.0	18.2		ug/L		91	64 - 134	0	30
Chlorobenzene			20.0	19.1		ug/L		95	80 - 120	0	30
Chloroethane			20.0	17.7		ug/L		89	55 - 123	2	30
Chloroform			20.0	18.9		ug/L		95	80 - 120	1	30
Chloromethane			20.0	18.2		ug/L		91	56 - 121	2	30
cis-1,2-Dichloroethene			20.0	19.9		ug/L		99	80 - 125	2	30
cis-1,3-Dichloropropene			20.0	20.0		ug/L		100	75 - 120	0	30
Cyclohexane			20.0	19.6		ug/L		98	68 - 126	1	30
Dibromochloromethane			20.0	18.8		ug/L		94	71 - 120	5	30
Dichlorodifluoromethane			20.0	14.9		ug/L		75	41 - 127	6	30
Ethylbenzene			20.0	18.9		ug/L		94	80 - 120	2	30
Freon 113			20.0	18.6		ug/L		93	73 - 139	1	30
Isopropylbenzene			20.0	18.9		ug/L		95	80 - 120	1	30
Methyl acetate			20.0	25.8		ug/L		129	54 - 136	6	30
Methyl tertiary butyl ether			20.0	20.7		ug/L		104	69 - 122	0	30
Methylcyclohexane			20.0	19.0		ug/L		95	67 - 121	4	30
Methylene Chloride			20.0	19.6		ug/L		98	80 - 120	0	30
Styrene			20.0	18.7		ug/L		94	80 - 120	2	30
Tetrachloroethene			20.0	19.1		ug/L		95	80 - 120	3	30
Toluene			20.0	18.8		ug/L		94	80 - 120	1	30
trans-1,2-Dichloroethene			20.0	18.7		ug/L		94	80 - 126	0	30
trans-1,3-Dichloropropene			20.0	20.1		ug/L		101	67 - 120	2	30
Trichloroethene			20.0	18.9		ug/L		94	80 - 120	0	30
Trichlorofluoromethane			20.0	16.0		ug/L		80	55 - 135	0	30
Vinyl chloride			20.0	16.6		ug/L		83	56 - 120	2	30
Xylenes, Total			60.0	56.4		ug/L		94	80 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-231598/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 231885
Prep Batch: 231598

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		10	3.0	ug/L		03/09/22 09:52	03/09/22 17:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-231598/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 231885
Prep Batch: 231598

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		30	14	ug/L		03/09/22 09:52	03/09/22 17:59	1
2-Chlorophenol	ND		2.0	0.50	ug/L		03/09/22 09:52	03/09/22 17:59	1
Carbazole	ND		2.0	0.50	ug/L		03/09/22 09:52	03/09/22 17:59	1
Phenol	ND		2.0	0.50	ug/L		03/09/22 09:52	03/09/22 17:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*10 - 150*	*03/09/22 09:52*	*03/09/22 17:59*	*1*
2-Fluorobiphenyl (Surr)	*65*		*44 - 120*	*03/09/22 09:52*	*03/09/22 17:59*	*1*
2-Fluorophenol (Surr)	*42*		*10 - 120*	*03/09/22 09:52*	*03/09/22 17:59*	*1*
Nitrobenzene-d5 (Surr)	*68*		*25 - 125*	*03/09/22 09:52*	*03/09/22 17:59*	*1*
Phenol-d5 (Surr)	*27*		*10 - 120*	*03/09/22 09:52*	*03/09/22 17:59*	*1*
p-Terphenyl-d14 (Surr)	*87*		*37 - 120*	*03/09/22 09:52*	*03/09/22 17:59*	*1*

Lab Sample ID: LCS 410-231598/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 231885
Prep Batch: 231598

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dimethylphenol	50.0	46.5		ug/L		93	62 - 120
2,4-Dinitrophenol	100	88.4		ug/L		88	43 - 146
2-Chlorophenol	50.0	46.0		ug/L		92	57 - 120
Carbazole	50.0	48.2		ug/L		96	74 - 120
Phenol	50.0	29.1		ug/L		58	22 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*85*		*10 - 150*
2-Fluorobiphenyl (Surr)	*73*		*44 - 120*
2-Fluorophenol (Surr)	*59*		*10 - 120*
Nitrobenzene-d5 (Surr)	*75*		*25 - 125*
Phenol-d5 (Surr)	*43*		*10 - 120*
p-Terphenyl-d14 (Surr)	*91*		*37 - 120*

Lab Sample ID: LCSD 410-231598/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 231885
Prep Batch: 231598

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dimethylphenol	50.0	43.4		ug/L		87	62 - 120	7	30
2,4-Dinitrophenol	100	89.8		ug/L		90	43 - 146	2	30
2-Chlorophenol	50.0	42.3		ug/L		85	57 - 120	8	30
Carbazole	50.0	46.4		ug/L		93	74 - 120	4	30
Phenol	50.0	25.5		ug/L		51	22 - 120	13	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*85*		*10 - 150*
2-Fluorobiphenyl (Surr)	*74*		*44 - 120*
2-Fluorophenol (Surr)	*55*		*10 - 120*

Client: Environmental Works, Inc.
Job ID: 410-74987-1
Project/Site: Springfield, MO- 1H2022 Groundwater Sampling Event

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-231598/3-A
Matrix: Water
Analysis Batch: 231885

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 231598

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	*74*		*25 - 125*
Phenol-d5 (Surr)	*39*		*10 - 120*
p-Terphenyl-d14 (Surr)	*89*		*37 - 120*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 410-231594/1-A
Matrix: Water
Analysis Batch: 231826

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 231594

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.30	0.10	ug/L		03/09/22 09:51	03/09/22 19:47	1
1-Methylnaphthalene	ND		0.050	0.020	ug/L		03/09/22 09:51	03/09/22 19:47	1
2-Methylnaphthalene	ND		0.050	0.020	ug/L		03/09/22 09:51	03/09/22 19:47	1
Acenaphthene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Acenaphthylene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Anthracene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Bis(2-chloroethyl)ether	ND		0.050	0.020	ug/L		03/09/22 09:51	03/09/22 19:47	1
Bis(2-ethylhexyl) phthalate	ND		1.0	0.050	ug/L		03/09/22 09:51	03/09/22 19:47	1
Butylbenzylphthalate	ND		1.0	0.050	ug/L		03/09/22 09:51	03/09/22 19:47	1
Chrysene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/09/22 09:51	03/09/22 19:47	1
Dibenzofuran	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Diethylphthalate	0.0828	J	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 19:47	1
Dimethylphthalate	ND		1.0	0.050	ug/L		03/09/22 09:51	03/09/22 19:47	1
Di-n-butyl phthalate	ND		1.0	0.050	ug/L		03/09/22 09:51	03/09/22 19:47	1
Di-n-octyl phthalate	ND		1.0	0.050	ug/L		03/09/22 09:51	03/09/22 19:47	1
Fluoranthene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Fluorene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Hexachlorobenzene	ND		0.050	0.020	ug/L		03/09/22 09:51	03/09/22 19:47	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		03/09/22 09:51	03/09/22 19:47	1
Naphthalene	ND		0.070	0.030	ug/L		03/09/22 09:51	03/09/22 19:47	1
N-Nitrosodimethylamine	ND		0.050	0.020	ug/L		03/09/22 09:51	03/09/22 19:47	1
Phenanthrene	ND		0.070	0.030	ug/L		03/09/22 09:51	03/09/22 19:47	1
Pyrene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene-d10 (Surr)	*65*		*36 - 111*	*03/09/22 09:51*	*03/09/22 19:47*	*1*
Benzo(a)pyrene-d12 (Surr)	*81*		*10 - 110*	*03/09/22 09:51*	*03/09/22 19:47*	*1*
Fluoranthene-d10 (Surr)	*78*		*47 - 128*	*03/09/22 09:51*	*03/09/22 19:47*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 410-231594/2-A
Matrix: Water
Analysis Batch: 231826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 231594

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			1.00	0.516		ug/L		52	23 - 120		
1-Methylnaphthalene			1.00	0.609		ug/L		61	23 - 124		
2-Methylnaphthalene			1.00	0.571		ug/L		57	20 - 133		
Acenaphthene			1.00	0.630		ug/L		63	42 - 120		
Acenaphthylene			1.00	0.648		ug/L		65	49 - 120		
Anthracene			1.00	0.740		ug/L		74	54 - 121		
Benzo[a]anthracene			1.00	0.803		ug/L		80	61 - 122		
Benzo[a]pyrene			1.00	0.756		ug/L		76	60 - 120		
Benzo[b]fluoranthene			1.00	0.801		ug/L		80	58 - 122		
Benzo[g,h,i]perylene			1.00	0.868		ug/L		87	50 - 120		
Benzo[k]fluoranthene			1.00	0.789		ug/L		79	57 - 128		
Bis(2-chloroethyl)ether			1.00	1.43	*+	ug/L		143	59 - 130		
Bis(2-ethylhexyl) phthalate			1.00	0.699	J	ug/L		70	14 - 155		
Butylbenzylphthalate			1.00	0.516	J	ug/L		52	10 - 120		
Chrysene			1.00	0.738		ug/L		74	55 - 123		
Dibenz(a,h)anthracene			1.00	0.946		ug/L		95	50 - 121		
Dibenzofuran			1.00	0.713		ug/L		71	48 - 124		
Diethylphthalate			1.00	0.719	J	ug/L		72	38 - 120		
Dimethylphthalate			1.00	0.535	J	ug/L		53	10 - 121		
Di-n-butyl phthalate			1.00	0.695	J	ug/L		70	46 - 125		
Di-n-octyl phthalate			1.00	0.681	J	ug/L		68	22 - 130		
Fluoranthene			1.00	0.736		ug/L		74	61 - 123		
Fluorene			1.00	0.707		ug/L		71	55 - 120		
Hexachlorobenzene			1.00	0.627		ug/L		63	20 - 120		
Indeno[1,2,3-cd]pyrene			1.00	0.978		ug/L		98	47 - 143		
Naphthalene			1.00	0.583		ug/L		58	20 - 120		
N-Nitrosodimethylamine			1.00	0.909		ug/L		91	37 - 120		
Phenanthrene			1.00	0.724		ug/L		72	59 - 120		
Pyrene			1.00	0.711		ug/L		71	46 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Methylnaphthalene-d10 (Surr)	*62*		*36 - 111*
Benzo(a)pyrene-d12 (Surr)	*82*		*10 - 110*
Fluoranthene-d10 (Surr)	*72*		*47 - 128*

Lab Sample ID: LCSD 410-231594/3-A
Matrix: Water
Analysis Batch: 231826

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 231594

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane			1.00	0.547		ug/L		55	23 - 120	6	30
1-Methylnaphthalene			1.00	0.757		ug/L		76	23 - 124	22	30
2-Methylnaphthalene			1.00	0.725		ug/L		73	20 - 133	24	30
Acenaphthene			1.00	0.770		ug/L		77	42 - 120	20	30
Acenaphthylene			1.00	0.789		ug/L		79	49 - 120	20	30
Anthracene			1.00	0.868		ug/L		87	54 - 121	16	30
Benzo[a]anthracene			1.00	0.917		ug/L		92	61 - 122	13	30

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 410-231594/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 231826
Prep Batch: 231594

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]pyrene			1.00	0.867		ug/L		87	60 - 120	14	30
Benzo[b]fluoranthene			1.00	0.938		ug/L		94	58 - 122	16	30
Benzo[g,h,i]perylene			1.00	0.946		ug/L		95	50 - 120	9	30
Benzo[k]fluoranthene			1.00	0.892		ug/L		89	57 - 128	12	30
Bis(2-chloroethyl)ether			1.00	1.53	*+	ug/L		153	59 - 130	7	30
Bis(2-ethylhexyl) phthalate			1.00	0.868	J	ug/L		87	14 - 155	22	30
Butylbenzylphthalate			1.00	0.514	J	ug/L		51	10 - 120	0	30
Chrysene			1.00	0.863		ug/L		86	55 - 123	16	30
Dibenz(a,h)anthracene			1.00	1.03		ug/L		103	50 - 121	9	30
Dibenzofuran			1.00	0.854		ug/L		85	48 - 124	18	30
Diethylphthalate			1.00	0.786	J	ug/L		79	38 - 120	9	30
Dimethylphthalate			1.00	0.521	J	ug/L		52	10 - 121	3	30
Di-n-butyl phthalate			1.00	0.815	J	ug/L		81	46 - 125	16	30
Di-n-octyl phthalate			1.00	0.743	J	ug/L		74	22 - 130	9	30
Fluoranthene			1.00	0.883		ug/L		88	61 - 123	18	30
Fluorene			1.00	0.839		ug/L		84	55 - 120	17	30
Hexachlorobenzene			1.00	0.822		ug/L		82	20 - 120	27	30
Indeno[1,2,3-cd]pyrene			1.00	1.11		ug/L		111	47 - 143	13	30
Naphthalene			1.00	0.748		ug/L		75	20 - 120	25	30
N-Nitrosodimethylamine			1.00	0.984		ug/L		98	37 - 120	8	30
Phenanthrene			1.00	0.859		ug/L		86	59 - 120	17	30
Pyrene			1.00	0.806		ug/L		81	46 - 122	13	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Methylnaphthalene-d10 (Surr)	*79*		*36 - 111*
Benzo(a)pyrene-d12 (Surr)	*94*		*10 - 110*
Fluoranthene-d10 (Surr)	*87*		*47 - 128*

QC Association Summary

Client: Environmental Works, Inc. Job ID: 410-74987-1
Project/Site: Springfield, MO- 1H2022 Groundwater Sampling Event

GC/MS VOA

Analysis Batch: 233094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-74987-1	FBW001_03032022	Total/NA	Water	8260C	
410-74987-2	FBS010_03032022	Total/NA	Water	8260C	
410-74987-3	Trip Blank	Total/NA	Water	8260C	
MB 410-233094/7	Method Blank	Total/NA	Water	8260C	
LCS 410-233094/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 410-233094/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 231594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-74987-1	FBW001_03032022	Total/NA	Water	3510C	
410-74987-2	FBS010_03032022	Total/NA	Water	3510C	
MB 410-231594/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-231594/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-231594/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 231598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-74987-1	FBW001_03032022	Total/NA	Water	3510C	
410-74987-2	FBS010_03032022	Total/NA	Water	3510C	
MB 410-231598/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-231598/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-231598/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 231826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-74987-1	FBW001_03032022	Total/NA	Water	8270D SIM	231594
410-74987-2	FBS010_03032022	Total/NA	Water	8270D SIM	231594
MB 410-231594/1-A	Method Blank	Total/NA	Water	8270D SIM	231594
LCS 410-231594/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	231594
LCSD 410-231594/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	231594

Analysis Batch: 231885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-74987-1	FBW001_03032022	Total/NA	Water	8270D	231598
410-74987-2	FBS010_03032022	Total/NA	Water	8270D	231598
MB 410-231598/1-A	Method Blank	Total/NA	Water	8270D	231598
LCS 410-231598/2-A	Lab Control Sample	Total/NA	Water	8270D	231598
LCSD 410-231598/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	231598

Lab Chronicle

Client: Environmental Works, Inc.
Job ID: 410-74987-1
Project/Site: Springfield, MO- 1H2022 Groundwater Sampling Event

Client Sample ID: FBW001_03032022
Lab Sample ID: 410-74987-1
Date Collected: 03/03/22 09:20
Matrix: Water
Date Received: 03/04/22 10:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233094	03/14/22 16:09	TQ4J	ELLE
Total/NA	Prep	3510C			231598	03/09/22 09:52	XPN5	ELLE
Total/NA	Analysis	8270D		1	231885	03/09/22 23:29	DZ6A	ELLE
Total/NA	Prep	3510C			231594	03/09/22 09:51	XPN5	ELLE
Total/NA	Analysis	8270D SIM		1	231826	03/09/22 23:15	UJM0	ELLE

Client Sample ID: FBS010_03032022
Lab Sample ID: 410-74987-2
Date Collected: 03/03/22 09:30
Matrix: Water
Date Received: 03/04/22 10:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233094	03/14/22 16:31	TQ4J	ELLE
Total/NA	Prep	3510C			231598	03/09/22 09:52	XPN5	ELLE
Total/NA	Analysis	8270D		1	231885	03/09/22 23:51	DZ6A	ELLE
Total/NA	Prep	3510C			231594	03/09/22 09:51	XPN5	ELLE
Total/NA	Analysis	8270D SIM		1	231826	03/09/22 23:45	UJM0	ELLE

Client Sample ID: Trip Blank
Lab Sample ID: 410-74987-3
Date Collected: 03/03/22 00:00
Matrix: Water
Date Received: 03/04/22 10:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233094	03/14/22 16:53	TQ4J	ELLE

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Works, Inc. Job ID: 410-74987-1

Project/Site: Springfield, MO- 1H2022 Groundwater Sampling Event

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Missouri	State	450	01-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,1,1-Trichloroethane
8260C		Water	1,1,2,2-Tetrachloroethane
8260C		Water	1,1,2-Trichloroethane
8260C		Water	1,1-Dichloroethane
8260C		Water	1,1-Dichloroethene
8260C		Water	1,2,4-Trichlorobenzene
8260C		Water	1,2,4-Trimethylbenzene
8260C		Water	1,2-Dibromo-3-Chloropropane
8260C		Water	1,2-Dibromoethane
8260C		Water	1,2-Dichlorobenzene
8260C		Water	1,2-Dichloroethane
8260C		Water	1,2-Dichloropropane
8260C		Water	1,3,5-Trimethylbenzene
8260C		Water	1,3-Dichlorobenzene
8260C		Water	1,4-Dichlorobenzene
8260C		Water	2-Butanone
8260C		Water	2-Hexanone
8260C		Water	4-Methyl-2-pentanone
8260C		Water	Acetone
8260C		Water	Benzene
8260C		Water	Bromodichloromethane
8260C		Water	Bromoform
8260C		Water	Bromomethane
8260C		Water	Carbon disulfide
8260C		Water	Carbon tetrachloride
8260C		Water	Chlorobenzene
8260C		Water	Chloroethane
8260C		Water	Chloroform
8260C		Water	Chloromethane
8260C		Water	cis-1,2-Dichloroethene
8260C		Water	cis-1,3-Dichloropropene
8260C		Water	Cyclohexane
8260C		Water	Dibromochloromethane
8260C		Water	Dichlorodifluoromethane
8260C		Water	Ethylbenzene
8260C		Water	Freon 113
8260C		Water	Isopropylbenzene
8260C		Water	Methyl acetate
8260C		Water	Methyl tertiary butyl ether
8260C		Water	Methylcyclohexane
8260C		Water	Methylene Chloride
8260C		Water	Styrene
8260C		Water	Tetrachloroethene
8260C		Water	Toluene

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	trans-1,2-Dichloroethene
8260C		Water	trans-1,3-Dichloropropene
8260C		Water	Trichloroethene
8260C		Water	Trichlorofluoromethane
8260C		Water	Vinyl chloride
8260C		Water	Xylenes, Total
8270D	3510C	Water	2,4-Dimethylphenol
8270D	3510C	Water	2,4-Dinitrophenol
8270D	3510C	Water	2-Chlorophenol
8270D	3510C	Water	Carbazole
8270D	3510C	Water	Phenol
8270D SIM	3510C	Water	1,4-Dioxane
8270D SIM	3510C	Water	1-Methylnaphthalene
8270D SIM	3510C	Water	2-Methylnaphthalene
8270D SIM	3510C	Water	Acenaphthene
8270D SIM	3510C	Water	Acenaphthylene
8270D SIM	3510C	Water	Anthracene
8270D SIM	3510C	Water	Benzo[a]anthracene
8270D SIM	3510C	Water	Benzo[a]pyrene
8270D SIM	3510C	Water	Benzo[b]fluoranthene
8270D SIM	3510C	Water	Benzo[g,h,i]perylene
8270D SIM	3510C	Water	Benzo[k]fluoranthene
8270D SIM	3510C	Water	Bis(2-chloroethyl)ether
8270D SIM	3510C	Water	Bis(2-ethylhexyl) phthalate
8270D SIM	3510C	Water	Butylbenzylphthalate
8270D SIM	3510C	Water	Chrysene
8270D SIM	3510C	Water	Dibenz(a,h)anthracene
8270D SIM	3510C	Water	Dibenzofuran
8270D SIM	3510C	Water	Diethylphthalate
8270D SIM	3510C	Water	Dimethylphthalate
8270D SIM	3510C	Water	Di-n-butyl phthalate
8270D SIM	3510C	Water	Di-n-octyl phthalate
8270D SIM	3510C	Water	Fluoranthene
8270D SIM	3510C	Water	Fluorene
8270D SIM	3510C	Water	Hexachlorobenzene
8270D SIM	3510C	Water	Indeno[1,2,3-cd]pyrene
8270D SIM	3510C	Water	Naphthalene
8270D SIM	3510C	Water	N-Nitrosodimethylamine
8270D SIM	3510C	Water	Phenanthrene
8270D SIM	3510C	Water	Pyrene

Method Summary

Client: Environmental Works, Inc. Job ID: 410-74987-1
Project/Site: Springfield, MO- 1H2022 Groundwater Sampling Event

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	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: Environmental Works, Inc.
Project/Site: Springfield, MO- 1H2022 Groundwater Sampling Event

Job ID: 410-74987-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-74987-1	FBW001_03032022	Water	03/03/22 09:20	03/04/22 10:32
410-74987-2	FBS010_03032022	Water	03/03/22 09:30	03/04/22 10:32
410-74987-3	Trip Blank	Water	03/03/22 00:00	03/04/22 10:32

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

410-74987 Chain of Custody

0613-14132.1

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Client Information	Sampler: Craig Bowden	Lab PM: Cottman, Hannah L	
Client Contact: Kay Kincannon	Phone: 417-350-9037	E-Mail: Hannah.Cottman@eurofinset.com	
Company: Environmental Works, Inc.	PWSID:	Analysis Requested	Job #:
Address: 1455 East Chestnut Expressway	Due Date Requested:		Preservation Codes:
City: Springfield	TAT Requested (days): standard		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: MO, 65802	Compliance Project: Δ Yes Δ No		
Phone: 406-457-2142(Tel)	PO #: SPRINGFIELD, MO		
Email: kkincannon@environmentalworks.com	WO #:		Other:
Project Name: Springfield, MO – OFIWP	Project #: 41006923		
Site: Fulbright	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Springfield, MO - 8260C TCL4.3 + TMB	8270D, 8270D_SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N		
FBW001_03032022	3/3/2022	9:20	G	W			X	X		pH 7.23
FBS010_03032022	3/3/2022	~~9:20~~ 9:30 KL	G	W			X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	2-18-22 14:06	ELLE	[signature]	3/3/22 08:30	EWI
2	[signature]	3/3/22 11:00	EWI	[signature]		
3				[signature]	3/4/22 1032	ELLE

Custody Seals Intact: X Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.6°C

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Environmental Works, Inc.

Job Number: 410-74987-1

Login Number: 74987

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Renner, Melissa

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature 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.	False	Received Trip Blank(s) not listed on COC.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	

ANALYTICAL REPORT

Job Number: 410-74987-1

Job Description: Springfield, MO – OFIWP

For:
Environmental Works, Inc.
1455 East Chestnut Expressway
Springfield, MO 65802

Attention: Jack Jackson

Approved for release.
Amek Carter
Project Manager
3/18/2022 10:44 AM

Designee for
Hannah L Cottman, Operations Support Specialist
2425 New Holland Pike, Lancaster, PA, 17601
(717)556-7383
Hannah.Cottman@eurofinset.com
03/18/2022

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.

Job Number: 410-74987-1

Job Description: Springfield, MO – OFIWP

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

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

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

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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
410-74987-1

Revision
The report being provided is a revision of the original report sent on 3/14/2022. The report (revision 1) is being revised due to: Correct project name.

Receipt
The samples were received on 3/4/2022 10:32 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 410-233094 recovered above the upper control limit for 2-Butanone, 2-Hexanone and 4-Methyl-2-pentanone. 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.

GC/MS Semi VOA
Method 8270D_SIM: The continuing calibration verification (CCV) associated with batch 410-231826 recovered above the upper control limit for Dibenz(a,h)anthracene and N-Nitrosodimethylamine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

Detection Summary

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-74987-1

Client Sample ID: FBW001_03032022 — Lab Sample ID: 410-74987-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	0.051	J cn	1.0	0.050	ug/L	1		8270D SIM	Total/NA

Client Sample ID: FBS010_03032022 — Lab Sample ID: 410-74987-2

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 410-74987-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: FBW001_03032022 Lab Sample ID: 410-74987-1

Date Collected: 03/03/22 09:20 **Matrix: Water**
Date Received: 03/04/22 10:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
1,1,2,2-Tetrachloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
1,1,2-Trichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
1,1-Dichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
1,1-Dichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
1,2,4-Trichlorobenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:09	1
1,2,4-Trimethylbenzene	ND	cn	5.0	1.0	ug/L			03/14/22 16:09	1
1,2-Dibromo-3-Chloropropane	ND	cn	5.0	0.30	ug/L			03/14/22 16:09	1
1,2-Dibromoethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1
1,2-Dichlorobenzene	ND	cn	5.0	0.20	ug/L			03/14/22 16:09	1
1,2-Dichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
1,2-Dichloropropane	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
1,3,5-Trimethylbenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:09	1
1,3-Dichlorobenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:09	1
1,4-Dichlorobenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:09	1
2-Butanone	ND	cn	10	0.50	ug/L			03/14/22 16:09	1
2-Hexanone	ND	cn	10	0.40	ug/L			03/14/22 16:09	1
4-Methyl-2-pentanone	ND	cn	10	0.50	ug/L			03/14/22 16:09	1
Acetone	ND	cn	20	0.70	ug/L			03/14/22 16:09	1
Benzene	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
Bromodichloromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1
Bromoform	ND	cn	4.0	1.0	ug/L			03/14/22 16:09	1
Bromomethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
Carbon disulfide	ND	cn	5.0	0.30	ug/L			03/14/22 16:09	1
Carbon tetrachloride	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
Chlorobenzene	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
Chloroethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1
Chloroform	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
Chloromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1
cis-1,2-Dichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
cis-1,3-Dichloropropene	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1
Cyclohexane	ND	cn	5.0	1.0	ug/L			03/14/22 16:09	1
Dibromochloromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1
Dichlorodifluoromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1
Ethylbenzene	ND	cn	1.0	0.40	ug/L			03/14/22 16:09	1
Freon 113	ND	cn	10	0.30	ug/L			03/14/22 16:09	1
Isopropylbenzene	ND	cn	5.0	0.20	ug/L			03/14/22 16:09	1
Methyl acetate	ND	cn	5.0	0.30	ug/L			03/14/22 16:09	1
Methyl tertiary butyl ether	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1
Methylcyclohexane	ND	cn	5.0	0.50	ug/L			03/14/22 16:09	1
Methylene Chloride	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
Styrene	ND	cn	5.0	0.30	ug/L			03/14/22 16:09	1
Tetrachloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
Toluene	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1
trans-1,2-Dichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
trans-1,3-Dichloropropene	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1
Trichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:09	1
Trichlorofluoromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1
Vinyl chloride	ND	cn	1.0	0.20	ug/L			03/14/22 16:09	1

Client Sample ID: FBW001_03032022 Lab Sample ID: 410-74987-1

Date Collected: 03/03/22 09:20 **Matrix: Water**
Date Received: 03/04/22 10:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND	cn	1.0	0.40	ug/L			03/14/22 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*	*cn*	*80 - 120*		*03/14/22 16:09*	*1*
4-Bromofluorobenzene (Surr)	*99*	*cn*	*80 - 120*		*03/14/22 16:09*	*1*
Dibromofluoromethane (Surr)	*98*	*cn*	*80 - 120*		*03/14/22 16:09*	*1*
Toluene-d8 (Surr)	*102*	*cn*	*80 - 120*		*03/14/22 16:09*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND	cn	0.30	0.10	ug/L		03/09/22 09:51	03/09/22 23:15	1
1-Methylnaphthalene	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:15	1
2-Methylnaphthalene	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:15	1
Acenaphthene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Acenaphthylene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Anthracene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Benzo[a]anthracene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Benzo[a]pyrene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Benzo[b]fluoranthene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Benzo[g,h,i]perylene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Benzo[k]fluoranthene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Bis(2-chloroethyl)ether	ND	*+ cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:15	1
Bis(2-ethylhexyl) phthalate	ND	cn	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:15	1
Butylbenzylphthalate	ND	cn	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:15	1
Chrysene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Dibenz(a,h)anthracene	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:15	1
Dibenzofuran	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Diethylphthalate	ND	cn	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:15	1
Dimethylphthalate	ND	cn	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:15	1
Di-n-butyl phthalate	**0.051**	**J cn**	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:15	1
Di-n-octyl phthalate	ND	cn	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:15	1
Fluoranthene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Fluorene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1
Hexachlorobenzene	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:15	1
Indeno[1,2,3-cd]pyrene	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:15	1
Naphthalene	ND	cn	0.071	0.030	ug/L		03/09/22 09:51	03/09/22 23:15	1
N-Nitrosodimethylamine	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:15	1
Phenanthrene	ND	cn	0.071	0.030	ug/L		03/09/22 09:51	03/09/22 23:15	1
Pyrene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*66*	*cn*	*36 - 111*	*03/09/22 09:51*	*03/09/22 23:15*	*1*
Benzo(a)pyrene-d12 (Surr)	*77*	*cn*	*10 - 110*	*03/09/22 09:51*	*03/09/22 23:15*	*1*
Fluoranthene-d10 (Surr)	*84*	*cn*	*47 - 128*	*03/09/22 09:51*	*03/09/22 23:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		10	3.0	ug/L		03/09/22 09:52	03/09/22 23:29	1
2,4-Dinitrophenol	ND		30	14	ug/L		03/09/22 09:52	03/09/22 23:29	1
2-Chlorophenol	ND		2.0	0.50	ug/L		03/09/22 09:52	03/09/22 23:29	1

Client Sample ID: FBW001_03032022 — Lab Sample ID: 410-74987-1

Date Collected: 03/03/22 09:20 — **Matrix: Water**
Date Received: 03/04/22 10:32

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	ND		2.0	0.50	ug/L		03/09/22 09:52	03/09/22 23:29	1
Phenol	ND		2.0	0.50	ug/L		03/09/22 09:52	03/09/22 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*77*		*10 - 150*	*03/09/22 09:52*	*03/09/22 23:29*	*1*
2-Fluorobiphenyl (Surr)	*65*		*44 - 120*	*03/09/22 09:52*	*03/09/22 23:29*	*1*
2-Fluorophenol (Surr)	*36*		*10 - 120*	*03/09/22 09:52*	*03/09/22 23:29*	*1*
Nitrobenzene-d5 (Surr)	*63*		*25 - 125*	*03/09/22 09:52*	*03/09/22 23:29*	*1*
Phenol-d5 (Surr)	*25*		*10 - 120*	*03/09/22 09:52*	*03/09/22 23:29*	*1*
p-Terphenyl-d14 (Surr)	*81*		*37 - 120*	*03/09/22 09:52*	*03/09/22 23:29*	*1*

Client Sample ID: FBS010_03032022 — Lab Sample ID: 410-74987-2

Date Collected: 03/03/22 09:30 — **Matrix: Water**
Date Received: 03/04/22 10:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
1,1,2,2-Tetrachloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
1,1,2-Trichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
1,1-Dichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
1,1-Dichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
1,2,4-Trichlorobenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:31	1
1,2,4-Trimethylbenzene	ND	cn	5.0	1.0	ug/L			03/14/22 16:31	1
1,2-Dibromo-3-Chloropropane	ND	cn	5.0	0.30	ug/L			03/14/22 16:31	1
1,2-Dibromoethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1
1,2-Dichlorobenzene	ND	cn	5.0	0.20	ug/L			03/14/22 16:31	1
1,2-Dichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
1,2-Dichloropropane	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
1,3,5-Trimethylbenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:31	1
1,3-Dichlorobenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:31	1
1,4-Dichlorobenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:31	1
2-Butanone	ND	cn	10	0.50	ug/L			03/14/22 16:31	1
2-Hexanone	ND	cn	10	0.40	ug/L			03/14/22 16:31	1
4-Methyl-2-pentanone	ND	cn	10	0.50	ug/L			03/14/22 16:31	1
Acetone	ND	cn	20	0.70	ug/L			03/14/22 16:31	1
Benzene	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
Bromodichloromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1
Bromoform	ND	cn	4.0	1.0	ug/L			03/14/22 16:31	1
Bromomethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
Carbon disulfide	ND	cn	5.0	0.30	ug/L			03/14/22 16:31	1
Carbon tetrachloride	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
Chlorobenzene	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
Chloroethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1
Chloroform	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
Chloromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1
cis-1,2-Dichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
cis-1,3-Dichloropropene	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1
Cyclohexane	ND	cn	5.0	1.0	ug/L			03/14/22 16:31	1
Dibromochloromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1

Client Sample ID: FBS010_03032022 Lab Sample ID: 410-74987-2

Date Collected: 03/03/22 09:30 **Matrix: Water**
Date Received: 03/04/22 10:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1
Ethylbenzene	ND	cn	1.0	0.40	ug/L			03/14/22 16:31	1
Freon 113	ND	cn	10	0.30	ug/L			03/14/22 16:31	1
Isopropylbenzene	ND	cn	5.0	0.20	ug/L			03/14/22 16:31	1
Methyl acetate	ND	cn	5.0	0.30	ug/L			03/14/22 16:31	1
Methyl tertiary butyl ether	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1
Methylcyclohexane	ND	cn	5.0	0.50	ug/L			03/14/22 16:31	1
Methylene Chloride	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
Styrene	ND	cn	5.0	0.30	ug/L			03/14/22 16:31	1
Tetrachloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
Toluene	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1
trans-1,2-Dichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
trans-1,3-Dichloropropene	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1
Trichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:31	1
Trichlorofluoromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1
Vinyl chloride	ND	cn	1.0	0.20	ug/L			03/14/22 16:31	1
Xylenes, Total	ND	cn	1.0	0.40	ug/L			03/14/22 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*	*cn*	*80 - 120*		*03/14/22 16:31*	*1*
4-Bromofluorobenzene (Surr)	*98*	*cn*	*80 - 120*		*03/14/22 16:31*	*1*
Dibromofluoromethane (Surr)	*99*	*cn*	*80 - 120*		*03/14/22 16:31*	*1*
Toluene-d8 (Surr)	*101*	*cn*	*80 - 120*		*03/14/22 16:31*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND	cn	0.30	0.10	ug/L		03/09/22 09:51	03/09/22 23:45	1
1-Methylnaphthalene	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:45	1
2-Methylnaphthalene	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:45	1
Acenaphthene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Acenaphthylene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Anthracene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Benzo[a]anthracene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Benzo[a]pyrene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Benzo[b]fluoranthene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Benzo[g,h,i]perylene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Benzo[k]fluoranthene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Bis(2-chloroethyl)ether	ND	*+ cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:45	1
Bis(2-ethylhexyl) phthalate	ND	cn	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:45	1
Butylbenzylphthalate	ND	cn	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:45	1
Chrysene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Dibenz(a,h)anthracene	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:45	1
Dibenzofuran	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Diethylphthalate	ND	cn	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:45	1
Dimethylphthalate	ND	cn	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:45	1
Di-n-butyl phthalate	ND	cn	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:45	1
Di-n-octyl phthalate	ND	cn	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 23:45	1
Fluoranthene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Fluorene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1
Hexachlorobenzene	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:45	1

Client Sample ID: FBS010_03032022 — Lab Sample ID: 410-74987-2

Date Collected: 03/03/22 09:30 — **Matrix: Water**
Date Received: 03/04/22 10:32

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:45	1
Naphthalene	ND	cn	0.071	0.030	ug/L		03/09/22 09:51	03/09/22 23:45	1
N-Nitrosodimethylamine	ND	cn	0.050	0.020	ug/L		03/09/22 09:51	03/09/22 23:45	1
Phenanthrene	ND	cn	0.071	0.030	ug/L		03/09/22 09:51	03/09/22 23:45	1
Pyrene	ND	cn	0.050	0.010	ug/L		03/09/22 09:51	03/09/22 23:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*65*	*cn*	*36 - 111*	*03/09/22 09:51*	*03/09/22 23:45*	*1*
Benzo(a)pyrene-d12 (Surr)	*69*	*cn*	*10 - 110*	*03/09/22 09:51*	*03/09/22 23:45*	*1*
Fluoranthene-d10 (Surr)	*79*	*cn*	*47 - 128*	*03/09/22 09:51*	*03/09/22 23:45*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		10	3.0	ug/L		03/09/22 09:52	03/09/22 23:51	1
2,4-Dinitrophenol	ND		30	14	ug/L		03/09/22 09:52	03/09/22 23:51	1
2-Chlorophenol	ND		2.0	0.50	ug/L		03/09/22 09:52	03/09/22 23:51	1
Carbazole	ND		2.0	0.50	ug/L		03/09/22 09:52	03/09/22 23:51	1
Phenol	ND		2.0	0.50	ug/L		03/09/22 09:52	03/09/22 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*74*		*10 - 150*	*03/09/22 09:52*	*03/09/22 23:51*	*1*
2-Fluorobiphenyl (Surr)	*65*		*44 - 120*	*03/09/22 09:52*	*03/09/22 23:51*	*1*
2-Fluorophenol (Surr)	*39*		*10 - 120*	*03/09/22 09:52*	*03/09/22 23:51*	*1*
Nitrobenzene-d5 (Surr)	*68*		*25 - 125*	*03/09/22 09:52*	*03/09/22 23:51*	*1*
Phenol-d5 (Surr)	*26*		*10 - 120*	*03/09/22 09:52*	*03/09/22 23:51*	*1*
p-Terphenyl-d14 (Surr)	*75*		*37 - 120*	*03/09/22 09:52*	*03/09/22 23:51*	*1*

Client Sample ID: Trip Blank — Lab Sample ID: 410-74987-3

Date Collected: 03/03/22 00:00 — **Matrix: Water**
Date Received: 03/04/22 10:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
1,1,2,2-Tetrachloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
1,1,2-Trichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
1,1-Dichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
1,1-Dichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
1,2,4-Trichlorobenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:53	1
1,2,4-Trimethylbenzene	ND	cn	5.0	1.0	ug/L			03/14/22 16:53	1
1,2-Dibromo-3-Chloropropane	ND	cn	5.0	0.30	ug/L			03/14/22 16:53	1
1,2-Dibromoethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
1,2-Dichlorobenzene	ND	cn	5.0	0.20	ug/L			03/14/22 16:53	1
1,2-Dichloroethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
1,2-Dichloropropane	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
1,3,5-Trimethylbenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:53	1
1,3-Dichlorobenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:53	1
1,4-Dichlorobenzene	ND	cn	5.0	0.30	ug/L			03/14/22 16:53	1
2-Butanone	ND	cn	10	0.50	ug/L			03/14/22 16:53	1
2-Hexanone	ND	cn	10	0.40	ug/L			03/14/22 16:53	1
4-Methyl-2-pentanone	ND	cn	10	0.50	ug/L			03/14/22 16:53	1

Client Sample ID: Trip Blank
Date Collected: 03/03/22 00:00
Date Received: 03/04/22 10:32

Lab Sample ID: 410-74987-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	cn	20	0.70	ug/L			03/14/22 16:53	1
Benzene	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
Bromodichloromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
Bromoform	ND	cn	4.0	1.0	ug/L			03/14/22 16:53	1
Bromomethane	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
Carbon disulfide	ND	cn	5.0	0.30	ug/L			03/14/22 16:53	1
Carbon tetrachloride	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
Chlorobenzene	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
Chloroethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
Chloroform	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
Chloromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
cis-1,2-Dichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
cis-1,3-Dichloropropene	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
Cyclohexane	ND	cn	5.0	1.0	ug/L			03/14/22 16:53	1
Dibromochloromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
Dichlorodifluoromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
Ethylbenzene	ND	cn	1.0	0.40	ug/L			03/14/22 16:53	1
Freon 113	ND	cn	10	0.30	ug/L			03/14/22 16:53	1
Isopropylbenzene	ND	cn	5.0	0.20	ug/L			03/14/22 16:53	1
Methyl acetate	ND	cn	5.0	0.30	ug/L			03/14/22 16:53	1
Methyl tertiary butyl ether	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
Methylcyclohexane	ND	cn	5.0	0.50	ug/L			03/14/22 16:53	1
Methylene Chloride	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
Styrene	ND	cn	5.0	0.30	ug/L			03/14/22 16:53	1
Tetrachloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
Toluene	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
trans-1,2-Dichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
trans-1,3-Dichloropropene	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
Trichloroethene	ND	cn	1.0	0.30	ug/L			03/14/22 16:53	1
Trichlorofluoromethane	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
Vinyl chloride	ND	cn	1.0	0.20	ug/L			03/14/22 16:53	1
Xylenes, Total	ND	cn	1.0	0.40	ug/L			03/14/22 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*	*cn*	*80 - 120*		*03/14/22 16:53*	*1*
4-Bromofluorobenzene (Surr)	*98*	*cn*	*80 - 120*		*03/14/22 16:53*	*1*
Dibromofluoromethane (Surr)	*100*	*cn*	*80 - 120*		*03/14/22 16:53*	*1*
Toluene-d8 (Surr)	*102*	*cn*	*80 - 120*		*03/14/22 16:53*	*1*

Action Limit Summary

Client: Environmental Works, Inc. Job ID: 410-74987-1
Project/Site: Springfield, MO – OFIWP

Client Sample ID: FBW001_03032022 Lab Sample ID: 410-74987-1

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Action Limit	RL	Method	Prep Type
Benzene	ND	cn	ug/L	5	1.0	8260C	Total/NA
Ethylbenzene	ND	cn	ug/L	700	1.0	8260C	Total/NA
Toluene	ND	cn	ug/L	1000	1.0	8260C	Total/NA
Xylenes, Total	ND	cn	ug/L	10000	1.0	8260C	Total/NA
2-Methylnaphthalene	ND	cn	ug/L	36	0.050	8270D SIM	Total/NA
Acenaphthene	ND	cn	ug/L	1200	0.050	8270D SIM	Total/NA
Anthracene	ND	cn	ug/L	9600	0.050	8270D SIM	Total/NA
Benzo[a]anthracene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Benzo[a]pyrene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Benzo[b]fluoranthene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Benzo[k]fluoranthene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Chrysene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Dibenz(a,h)anthracene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Dibenzofuran	ND	cn	ug/L	7.9	0.050	8270D SIM	Total/NA
Fluoranthene	ND	cn	ug/L	300	0.050	8270D SIM	Total/NA
Fluorene	ND	cn	ug/L	1300	0.050	8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Naphthalene	ND	cn	ug/L	20	0.071	8270D SIM	Total/NA
Pyrene	ND	cn	ug/L	960	0.050	8270D SIM	Total/NA
2,4-Dimethylphenol	ND		ug/L	540	10	8270D	Total/NA
2,4-Dinitrophenol	ND		ug/L	70	30	8270D	Total/NA
2-Chlorophenol	ND		ug/L	0.5	2.0	8270D	Total/NA
Phenol	ND		ug/L	300	2.0	8270D	Total/NA

Client Sample ID: FBS010_03032022 Lab Sample ID: 410-74987-2

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Action Limit	RL	Method	Prep Type
Benzene	ND	cn	ug/L	5	1.0	8260C	Total/NA
Ethylbenzene	ND	cn	ug/L	700	1.0	8260C	Total/NA
Toluene	ND	cn	ug/L	1000	1.0	8260C	Total/NA
Xylenes, Total	ND	cn	ug/L	10000	1.0	8260C	Total/NA
2-Methylnaphthalene	ND	cn	ug/L	36	0.050	8270D SIM	Total/NA
Acenaphthene	ND	cn	ug/L	1200	0.050	8270D SIM	Total/NA
Anthracene	ND	cn	ug/L	9600	0.050	8270D SIM	Total/NA
Benzo[a]anthracene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Benzo[a]pyrene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Benzo[b]fluoranthene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Benzo[k]fluoranthene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Chrysene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Dibenz(a,h)anthracene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Dibenzofuran	ND	cn	ug/L	7.9	0.050	8270D SIM	Total/NA
Fluoranthene	ND	cn	ug/L	300	0.050	8270D SIM	Total/NA
Fluorene	ND	cn	ug/L	1300	0.050	8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene	ND	cn	ug/L	0.1	0.050	8270D SIM	Total/NA
Naphthalene	ND	cn	ug/L	20	0.071	8270D SIM	Total/NA

Client Sample ID: FBS010_03032022 (Continued) Lab Sample ID: 410-74987-2

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Action Limit	RL	Method	Prep Type
Pyrene	ND	cn	ug/L	960	0.050	8270D SIM	Total/NA
2,4-Dimethylphenol	ND		ug/L	540	10	8270D	Total/NA
2,4-Dinitrophenol	ND		ug/L	70	30	8270D	Total/NA
2-Chlorophenol	ND		ug/L	0.5	2.0	8270D	Total/NA
Phenol	ND		ug/L	300	2.0	8270D	Total/NA

Client Sample ID: Trip Blank Lab Sample ID: 410-74987-3

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Action Limit	RL	Method	Prep Type
Benzene	ND	cn	ug/L	5	1.0	8260C	Total/NA
Ethylbenzene	ND	cn	ug/L	700	1.0	8260C	Total/NA
Toluene	ND	cn	ug/L	1000	1.0	8260C	Total/NA
Xylenes, Total	ND	cn	ug/L	10000	1.0	8260C	Total/NA

Default Detection Limits

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-74987-1

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

Analyte	RL	MDL	Units
1,1,1-Trichloroethane	1.0	0.30	ug/L
1,1,2,2-Tetrachloroethane	1.0	0.30	ug/L
1,1,2-Trichloroethane	1.0	0.30	ug/L
1,1-Dichloroethane	1.0	0.30	ug/L
1,1-Dichloroethene	1.0	0.30	ug/L
1,2,4-Trichlorobenzene	5.0	0.30	ug/L
1,2,4-Trimethylbenzene	5.0	1.0	ug/L
1,2-Dibromo-3-Chloropropane	5.0	0.30	ug/L
1,2-Dibromoethane	1.0	0.20	ug/L
1,2-Dichlorobenzene	5.0	0.20	ug/L
1,2-Dichloroethane	1.0	0.30	ug/L
1,2-Dichloropropane	1.0	0.30	ug/L
1,3,5-Trimethylbenzene	5.0	0.30	ug/L
1,3-Dichlorobenzene	5.0	0.30	ug/L
1,4-Dichlorobenzene	5.0	0.30	ug/L
2-Butanone	10	0.50	ug/L
2-Hexanone	10	0.40	ug/L
4-Methyl-2-pentanone	10	0.50	ug/L
Acetone	20	0.70	ug/L
Benzene	1.0	0.30	ug/L
Bromodichloromethane	1.0	0.20	ug/L
Bromoform	4.0	1.0	ug/L
Bromomethane	1.0	0.30	ug/L
Carbon disulfide	5.0	0.30	ug/L
Carbon tetrachloride	1.0	0.30	ug/L
Chlorobenzene	1.0	0.30	ug/L
Chloroethane	1.0	0.20	ug/L
Chloroform	1.0	0.30	ug/L
Chloromethane	1.0	0.20	ug/L
cis-1,2-Dichloroethene	1.0	0.30	ug/L
cis-1,3-Dichloropropene	1.0	0.20	ug/L
Cyclohexane	5.0	1.0	ug/L
Dibromochloromethane	1.0	0.20	ug/L
Dichlorodifluoromethane	1.0	0.20	ug/L
Ethylbenzene	1.0	0.40	ug/L
Freon 113	10	0.30	ug/L
Isopropylbenzene	5.0	0.20	ug/L
Methyl acetate	5.0	0.30	ug/L
Methyl tertiary butyl ether	1.0	0.20	ug/L
Methylcyclohexane	5.0	0.50	ug/L
Methylene Chloride	1.0	0.30	ug/L
Styrene	5.0	0.30	ug/L
Tetrachloroethene	1.0	0.30	ug/L
Toluene	1.0	0.20	ug/L
trans-1,2-Dichloroethene	1.0	0.30	ug/L
trans-1,3-Dichloropropene	1.0	0.20	ug/L
Trichloroethene	1.0	0.30	ug/L
Trichlorofluoromethane	1.0	0.20	ug/L
Vinyl chloride	1.0	0.20	ug/L
Xylenes, Total	1.0	0.40	ug/L

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Prep: 3510C

Default Detection Limits

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-74987-1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Prep: 3510C

Analyte	RL	MDL	Units
1,4-Dioxane	0.30	0.10	ug/L
1-Methylnaphthalene	0.050	0.020	ug/L
2-Methylnaphthalene	0.050	0.020	ug/L
Acenaphthene	0.050	0.010	ug/L
Acenaphthylene	0.050	0.010	ug/L
Anthracene	0.050	0.010	ug/L
Benzo[a]anthracene	0.050	0.010	ug/L
Benzo[a]pyrene	0.050	0.010	ug/L
Benzo[b]fluoranthene	0.050	0.010	ug/L
Benzo[g,h,i]perylene	0.050	0.010	ug/L
Benzo[k]fluoranthene	0.050	0.010	ug/L
Bis(2-chloroethyl)ether	0.050	0.020	ug/L
Bis(2-ethylhexyl) phthalate	1.0	0.050	ug/L
Butylbenzylphthalate	1.0	0.050	ug/L
Chrysene	0.050	0.010	ug/L
Dibenz(a,h)anthracene	0.050	0.020	ug/L
Dibenzofuran	0.050	0.010	ug/L
Diethylphthalate	1.0	0.050	ug/L
Dimethylphthalate	1.0	0.050	ug/L
Di-n-butyl phthalate	1.0	0.050	ug/L
Di-n-octyl phthalate	1.0	0.050	ug/L
Fluoranthene	0.050	0.010	ug/L
Fluorene	0.050	0.010	ug/L
Hexachlorobenzene	0.050	0.020	ug/L
Indeno[1,2,3-cd]pyrene	0.050	0.020	ug/L
Naphthalene	0.070	0.030	ug/L
N-Nitrosodimethylamine	0.050	0.020	ug/L
Phenanthrene	0.070	0.030	ug/L
Pyrene	0.050	0.010	ug/L

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Prep: 3510C

Analyte	RL	MDL	Units
2,4-Dimethylphenol	10	3.0	ug/L
2,4-Dinitrophenol	30	14	ug/L
2-Chlorophenol	2.0	0.50	ug/L
Carbazole	2.0	0.50	ug/L
Phenol	2.0	0.50	ug/L

Surrogate Summary

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-74987-1

Method: 8260C - 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)
410-74987-1	FBW001_03032022	103 cn	99 cn	98 cn	102 cn
410-74987-2	FBS010_03032022	108 cn	98 cn	99 cn	101 cn
410-74987-3	Trip Blank	104 cn	98 cn	100 cn	102 cn
LCS 410-233094/4	Lab Control Sample	103	100	98	101
LCSD 410-233094/5	Lab Control Sample Dup	105	100	101	101
MB 410-233094/7	Method Blank	106	99	99	101

Surrogate Legend

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

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(44-120)	(10-120)	(25-125)	(10-120)	(37-120)
410-74987-1	FBW001_03032022	77	65	36	63	25	81
410-74987-2	FBS010_03032022	74	65	39	68	26	75
LCS 410-231598/2-A	Lab Control Sample	85	73	59	75	43	91
LCSD 410-231598/3-A	Lab Control Sample Dup	85	74	55	74	39	89
MB 410-231598/1-A	Method Blank	84	65	42	68	27	87

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		MNPd10	BAPd12	FLN10
Lab Sample ID	Client Sample ID	(36-111)	(10-110)	(47-128)
410-74987-1	FBW001_03032022	66 cn	77 cn	84 cn
410-74987-2	FBS010_03032022	65 cn	69 cn	79 cn
LCS 410-231594/2-A	Lab Control Sample	62	82	72
LCSD 410-231594/3-A	Lab Control Sample Dup	79	94	87
MB 410-231594/1-A	Method Blank	65	81	78

Surrogate Legend

MNPd10 = 1-Methylnaphthalene-d10 (Surr)
BAPd12 = Benzo(a)pyrene-d12 (Surr)
FLN10 = Fluoranthene-d10 (Surr)

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

Lab Sample ID: MB 410-233094/7
Matrix: Water
Analysis Batch: 233094

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-Trichloroethane	ND		1.0	0.30	ug/L			03/14/22 11:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			03/14/22 11:03	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			03/14/22 11:03	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			03/14/22 11:03	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			03/14/22 11:03	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/L			03/14/22 11:03	1
1,2,4-Trimethylbenzene	ND		5.0	1.0	ug/L			03/14/22 11:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.30	ug/L			03/14/22 11:03	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			03/14/22 11:03	1
1,2-Dichlorobenzene	ND		5.0	0.20	ug/L			03/14/22 11:03	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			03/14/22 11:03	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			03/14/22 11:03	1
1,3,5-Trimethylbenzene	ND		5.0	0.30	ug/L			03/14/22 11:03	1
1,3-Dichlorobenzene	ND		5.0	0.30	ug/L			03/14/22 11:03	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			03/14/22 11:03	1
2-Butanone	ND		10	0.50	ug/L			03/14/22 11:03	1
2-Hexanone	ND		10	0.40	ug/L			03/14/22 11:03	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			03/14/22 11:03	1
Acetone	ND		20	0.70	ug/L			03/14/22 11:03	1
Benzene	ND		1.0	0.30	ug/L			03/14/22 11:03	1
Bromodichloromethane	ND		1.0	0.20	ug/L			03/14/22 11:03	1
Bromoform	ND		4.0	1.0	ug/L			03/14/22 11:03	1
Bromomethane	ND		1.0	0.30	ug/L			03/14/22 11:03	1
Carbon disulfide	ND		5.0	0.30	ug/L			03/14/22 11:03	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			03/14/22 11:03	1
Chlorobenzene	ND		1.0	0.30	ug/L			03/14/22 11:03	1
Chloroethane	ND		1.0	0.20	ug/L			03/14/22 11:03	1
Chloroform	ND		1.0	0.30	ug/L			03/14/22 11:03	1
Chloromethane	ND		1.0	0.20	ug/L			03/14/22 11:03	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			03/14/22 11:03	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/14/22 11:03	1
Cyclohexane	ND		5.0	1.0	ug/L			03/14/22 11:03	1
Dibromochloromethane	ND		1.0	0.20	ug/L			03/14/22 11:03	1
Dichlorodifluoromethane	ND		1.0	0.20	ug/L			03/14/22 11:03	1
Ethylbenzene	ND		1.0	0.40	ug/L			03/14/22 11:03	1
Freon 113	ND		10	0.30	ug/L			03/14/22 11:03	1
Isopropylbenzene	ND		5.0	0.20	ug/L			03/14/22 11:03	1
Methyl acetate	ND		5.0	0.30	ug/L			03/14/22 11:03	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			03/14/22 11:03	1
Methylcyclohexane	ND		5.0	0.50	ug/L			03/14/22 11:03	1
Methylene Chloride	ND		1.0	0.30	ug/L			03/14/22 11:03	1
Styrene	ND		5.0	0.30	ug/L			03/14/22 11:03	1
Tetrachloroethene	ND		1.0	0.30	ug/L			03/14/22 11:03	1
Toluene	ND		1.0	0.20	ug/L			03/14/22 11:03	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/L			03/14/22 11:03	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			03/14/22 11:03	1
Trichloroethene	ND		1.0	0.30	ug/L			03/14/22 11:03	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			03/14/22 11:03	1

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

Lab Sample ID: MB 410-233094/7
Matrix: Water
Analysis Batch: 233094

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.20	ug/L			03/14/22 11:03	1
Xylenes, Total	ND		1.0	0.40	ug/L			03/14/22 11:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*03/14/22 11:03*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*03/14/22 11:03*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*03/14/22 11:03*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/14/22 11:03*	*1*

Lab Sample ID: LCS 410-233094/4
Matrix: Water
Analysis Batch: 233094

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-Trichloroethane	20.0	18.3		ug/L		91	67 - 126
1,1,2,2-Tetrachloroethane	20.0	18.7		ug/L		93	72 - 120
1,1,2-Trichloroethane	20.0	19.5		ug/L		97	80 - 120
1,1-Dichloroethane	20.0	19.8		ug/L		99	80 - 120
1,1-Dichloroethene	20.0	19.0		ug/L		95	80 - 131
1,2,4-Trichlorobenzene	20.0	19.2		ug/L		96	63 - 120
1,2,4-Trimethylbenzene	20.0	18.1		ug/L		90	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	17.9		ug/L		89	47 - 131
1,2-Dibromoethane	20.0	19.3		ug/L		96	77 - 120
1,2-Dichlorobenzene	20.0	18.5		ug/L		92	80 - 120
1,2-Dichloroethane	20.0	19.8		ug/L		99	73 - 124
1,2-Dichloropropane	20.0	20.2		ug/L		101	80 - 120
1,3,5-Trimethylbenzene	20.0	18.1		ug/L		90	75 - 120
1,3-Dichlorobenzene	20.0	18.7		ug/L		94	80 - 120
1,4-Dichlorobenzene	20.0	19.1		ug/L		96	80 - 120
2-Butanone	250	325		ug/L		130	59 - 135
2-Hexanone	250	327		ug/L		131	56 - 135
4-Methyl-2-pentanone	250	314		ug/L		126	62 - 133
Acetone	250	223		ug/L		89	54 - 157
Benzene	20.0	19.7		ug/L		98	80 - 120
Bromodichloromethane	20.0	19.6		ug/L		98	71 - 120
Bromoform	20.0	20.5		ug/L		103	51 - 120
Bromomethane	20.0	16.2		ug/L		81	53 - 128
Carbon disulfide	20.0	22.7		ug/L		114	65 - 128
Carbon tetrachloride	20.0	18.2		ug/L		91	64 - 134
Chlorobenzene	20.0	19.1		ug/L		96	80 - 120
Chloroethane	20.0	17.3		ug/L		87	55 - 123
Chloroform	20.0	19.1		ug/L		96	80 - 120
Chloromethane	20.0	17.8		ug/L		89	56 - 121
cis-1,2-Dichloroethene	20.0	19.5		ug/L		97	80 - 125
cis-1,3-Dichloropropene	20.0	20.0		ug/L		100	75 - 120
Cyclohexane	20.0	19.4		ug/L		97	68 - 126
Dibromochloromethane	20.0	19.6		ug/L		98	71 - 120
Dichlorodifluoromethane	20.0	14.1		ug/L		71	41 - 127

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

Lab Sample ID: LCS 410-233094/4
Matrix: Water
Analysis Batch: 233094

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			20.0	19.2		ug/L		96	80 - 120		
Freon 113			20.0	18.4		ug/L		92	73 - 139		
Isopropylbenzene			20.0	19.2		ug/L		96	80 - 120		
Methyl acetate			20.0	27.2		ug/L		136	54 - 136		
Methyl tertiary butyl ether			20.0	20.8		ug/L		104	69 - 122		
Methylcyclohexane			20.0	18.2		ug/L		91	67 - 121		
Methylene Chloride			20.0	19.5		ug/L		98	80 - 120		
Styrene			20.0	19.1		ug/L		96	80 - 120		
Tetrachloroethene			20.0	19.6		ug/L		98	80 - 120		
Toluene			20.0	19.0		ug/L		95	80 - 120		
trans-1,2-Dichloroethene			20.0	18.7		ug/L		94	80 - 126		
trans-1,3-Dichloropropene			20.0	20.4		ug/L		102	67 - 120		
Trichloroethene			20.0	18.8		ug/L		94	80 - 120		
Trichlorofluoromethane			20.0	16.1		ug/L		80	55 - 135		
Vinyl chloride			20.0	16.3		ug/L		81	56 - 120		
Xylenes, Total			60.0	57.2		ug/L		95	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 410-233094/5
Matrix: Water
Analysis Batch: 233094

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-Trichloroethane			20.0	18.1		ug/L		91	67 - 126	1	30
1,1,2,2-Tetrachloroethane			20.0	18.7		ug/L		93	72 - 120	0	30
1,1,2-Trichloroethane			20.0	19.1		ug/L		96	80 - 120	2	30
1,1-Dichloroethane			20.0	19.9		ug/L		99	80 - 120	0	30
1,1-Dichloroethene			20.0	19.3		ug/L		96	80 - 131	1	30
1,2,4-Trichlorobenzene			20.0	18.6		ug/L		93	63 - 120	3	30
1,2,4-Trimethylbenzene			20.0	18.2		ug/L		91	75 - 120	1	30
1,2-Dibromo-3-Chloropropane			20.0	17.7		ug/L		88	47 - 131	1	30
1,2-Dibromoethane			20.0	18.6		ug/L		93	77 - 120	3	30
1,2-Dichlorobenzene			20.0	18.7		ug/L		93	80 - 120	1	30
1,2-Dichloroethane			20.0	19.7		ug/L		98	73 - 124	1	30
1,2-Dichloropropane			20.0	20.5		ug/L		102	80 - 120	1	30
1,3,5-Trimethylbenzene			20.0	18.3		ug/L		92	75 - 120	1	30
1,3-Dichlorobenzene			20.0	18.6		ug/L		93	80 - 120	1	30
1,4-Dichlorobenzene			20.0	18.9		ug/L		94	80 - 120	1	30
2-Butanone			250	315		ug/L		126	59 - 135	3	30
2-Hexanone			250	317		ug/L		127	56 - 135	3	30
4-Methyl-2-pentanone			250	310		ug/L		124	62 - 133	1	30
Acetone			250	218		ug/L		87	54 - 157	2	30
Benzene			20.0	19.8		ug/L		99	80 - 120	1	30

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

Lab Sample ID: LCSD 410-233094/5
Matrix: Water
Analysis Batch: 233094

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
Bromodichloromethane			20.0	19.4		ug/L		97	71 - 120	1	30
Bromoform			20.0	19.8		ug/L		99	51 - 120	4	30
Bromomethane			20.0	16.2		ug/L		81	53 - 128	0	30
Carbon disulfide			20.0	22.7		ug/L		113	65 - 128	0	30
Carbon tetrachloride			20.0	18.2		ug/L		91	64 - 134	0	30
Chlorobenzene			20.0	19.1		ug/L		95	80 - 120	0	30
Chloroethane			20.0	17.7		ug/L		89	55 - 123	2	30
Chloroform			20.0	18.9		ug/L		95	80 - 120	1	30
Chloromethane			20.0	18.2		ug/L		91	56 - 121	2	30
cis-1,2-Dichloroethene			20.0	19.9		ug/L		99	80 - 125	2	30
cis-1,3-Dichloropropene			20.0	20.0		ug/L		100	75 - 120	0	30
Cyclohexane			20.0	19.6		ug/L		98	68 - 126	1	30
Dibromochloromethane			20.0	18.8		ug/L		94	71 - 120	5	30
Dichlorodifluoromethane			20.0	14.9		ug/L		75	41 - 127	6	30
Ethylbenzene			20.0	18.9		ug/L		94	80 - 120	2	30
Freon 113			20.0	18.6		ug/L		93	73 - 139	1	30
Isopropylbenzene			20.0	18.9		ug/L		95	80 - 120	1	30
Methyl acetate			20.0	25.8		ug/L		129	54 - 136	6	30
Methyl tertiary butyl ether			20.0	20.7		ug/L		104	69 - 122	0	30
Methylcyclohexane			20.0	19.0		ug/L		95	67 - 121	4	30
Methylene Chloride			20.0	19.6		ug/L		98	80 - 120	0	30
Styrene			20.0	18.7		ug/L		94	80 - 120	2	30
Tetrachloroethene			20.0	19.1		ug/L		95	80 - 120	3	30
Toluene			20.0	18.8		ug/L		94	80 - 120	1	30
trans-1,2-Dichloroethene			20.0	18.7		ug/L		94	80 - 126	0	30
trans-1,3-Dichloropropene			20.0	20.1		ug/L		101	67 - 120	2	30
Trichloroethene			20.0	18.9		ug/L		94	80 - 120	0	30
Trichlorofluoromethane			20.0	16.0		ug/L		80	55 - 135	0	30
Vinyl chloride			20.0	16.6		ug/L		83	56 - 120	2	30
Xylenes, Total			60.0	56.4		ug/L		94	80 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-231598/1-A
Matrix: Water
Analysis Batch: 231885

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 231598

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		10	3.0	ug/L		03/09/22 09:52	03/09/22 17:59	1
2,4-Dinitrophenol	ND		30	14	ug/L		03/09/22 09:52	03/09/22 17:59	1
2-Chlorophenol	ND		2.0	0.50	ug/L		03/09/22 09:52	03/09/22 17:59	1
Carbazole	ND		2.0	0.50	ug/L		03/09/22 09:52	03/09/22 17:59	1
Phenol	ND		2.0	0.50	ug/L		03/09/22 09:52	03/09/22 17:59	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		10 - 150	03/09/22 09:52	03/09/22 17:59	1
2-Fluorobiphenyl (Surr)	65		44 - 120	03/09/22 09:52	03/09/22 17:59	1
2-Fluorophenol (Surr)	42		10 - 120	03/09/22 09:52	03/09/22 17:59	1
Nitrobenzene-d5 (Surr)	68		25 - 125	03/09/22 09:52	03/09/22 17:59	1
Phenol-d5 (Surr)	27		10 - 120	03/09/22 09:52	03/09/22 17:59	1
p-Terphenyl-d14 (Surr)	87		37 - 120	03/09/22 09:52	03/09/22 17:59	1

Lab Sample ID: LCS 410-231598/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 231885 — **Prep Batch: 231598**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dimethylphenol	50.0	46.5		ug/L		93	62 - 120
2,4-Dinitrophenol	100	88.4		ug/L		88	43 - 146
2-Chlorophenol	50.0	46.0		ug/L		92	57 - 120
Carbazole	50.0	48.2		ug/L		96	74 - 120
Phenol	50.0	29.1		ug/L		58	22 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	85		10 - 150
2-Fluorobiphenyl (Surr)	73		44 - 120
2-Fluorophenol (Surr)	59		10 - 120
Nitrobenzene-d5 (Surr)	75		25 - 125
Phenol-d5 (Surr)	43		10 - 120
p-Terphenyl-d14 (Surr)	91		37 - 120

Lab Sample ID: LCSD 410-231598/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 231885 — **Prep Batch: 231598**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dimethylphenol	50.0	43.4		ug/L		87	62 - 120	7	30
2,4-Dinitrophenol	100	89.8		ug/L		90	43 - 146	2	30
2-Chlorophenol	50.0	42.3		ug/L		85	57 - 120	8	30
Carbazole	50.0	46.4		ug/L		93	74 - 120	4	30
Phenol	50.0	25.5		ug/L		51	22 - 120	13	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	85		10 - 150
2-Fluorobiphenyl (Surr)	74		44 - 120
2-Fluorophenol (Surr)	55		10 - 120
Nitrobenzene-d5 (Surr)	74		25 - 125
Phenol-d5 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	89		37 - 120

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 410-231594/1-A
Matrix: Water
Analysis Batch: 231826

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 231594

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.30	0.10	ug/L		03/09/22 09:51	03/09/22 19:47	1
1-Methylnaphthalene	ND		0.050	0.020	ug/L		03/09/22 09:51	03/09/22 19:47	1
2-Methylnaphthalene	ND		0.050	0.020	ug/L		03/09/22 09:51	03/09/22 19:47	1
Acenaphthene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Acenaphthylene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Anthracene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Bis(2-chloroethyl)ether	ND		0.050	0.020	ug/L		03/09/22 09:51	03/09/22 19:47	1
Bis(2-ethylhexyl) phthalate	ND		1.0	0.050	ug/L		03/09/22 09:51	03/09/22 19:47	1
Butylbenzylphthalate	ND		1.0	0.050	ug/L		03/09/22 09:51	03/09/22 19:47	1
Chrysene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		03/09/22 09:51	03/09/22 19:47	1
Dibenzofuran	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Diethylphthalate	0.0828	J	1.0	0.050	ug/L		03/09/22 09:51	03/09/22 19:47	1
Dimethylphthalate	ND		1.0	0.050	ug/L		03/09/22 09:51	03/09/22 19:47	1
Di-n-butyl phthalate	ND		1.0	0.050	ug/L		03/09/22 09:51	03/09/22 19:47	1
Di-n-octyl phthalate	ND		1.0	0.050	ug/L		03/09/22 09:51	03/09/22 19:47	1
Fluoranthene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Fluorene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1
Hexachlorobenzene	ND		0.050	0.020	ug/L		03/09/22 09:51	03/09/22 19:47	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		03/09/22 09:51	03/09/22 19:47	1
Naphthalene	ND		0.070	0.030	ug/L		03/09/22 09:51	03/09/22 19:47	1
N-Nitrosodimethylamine	ND		0.050	0.020	ug/L		03/09/22 09:51	03/09/22 19:47	1
Phenanthrene	ND		0.070	0.030	ug/L		03/09/22 09:51	03/09/22 19:47	1
Pyrene	ND		0.050	0.010	ug/L		03/09/22 09:51	03/09/22 19:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Methylnaphthalene-d10 (Surr)	*65*		*36 - 111*	*03/09/22 09:51*	*03/09/22 19:47*	*1*
Benzo(a)pyrene-d12 (Surr)	*81*		*10 - 110*	*03/09/22 09:51*	*03/09/22 19:47*	*1*
Fluoranthene-d10 (Surr)	*78*		*47 - 128*	*03/09/22 09:51*	*03/09/22 19:47*	*1*

Lab Sample ID: LCS 410-231594/2-A
Matrix: Water
Analysis Batch: 231826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 231594

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.00	0.516		ug/L		52	23 - 120
1-Methylnaphthalene	1.00	0.609		ug/L		61	23 - 124
2-Methylnaphthalene	1.00	0.571		ug/L		57	20 - 133
Acenaphthene	1.00	0.630		ug/L		63	42 - 120
Acenaphthylene	1.00	0.648		ug/L		65	49 - 120
Anthracene	1.00	0.740		ug/L		74	54 - 121
Benzo[a]anthracene	1.00	0.803		ug/L		80	61 - 122
Benzo[a]pyrene	1.00	0.756		ug/L		76	60 - 120

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 410-231594/2-A
Matrix: Water
Analysis Batch: 231826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 231594

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[b]fluoranthene	1.00	0.801		ug/L		80	58 - 122
Benzo[g,h,i]perylene	1.00	0.868		ug/L		87	50 - 120
Benzo[k]fluoranthene	1.00	0.789		ug/L		79	57 - 128
Bis(2-chloroethyl)ether	1.00	1.43	*+	ug/L		143	59 - 130
Bis(2-ethylhexyl) phthalate	1.00	0.699	J	ug/L		70	14 - 155
Butylbenzylphthalate	1.00	0.516	J	ug/L		52	10 - 120
Chrysene	1.00	0.738		ug/L		74	55 - 123
Dibenz(a,h)anthracene	1.00	0.946		ug/L		95	50 - 121
Dibenzofuran	1.00	0.713		ug/L		71	48 - 124
Diethylphthalate	1.00	0.719	J	ug/L		72	38 - 120
Dimethylphthalate	1.00	0.535	J	ug/L		53	10 - 121
Di-n-butyl phthalate	1.00	0.695	J	ug/L		70	46 - 125
Di-n-octyl phthalate	1.00	0.681	J	ug/L		68	22 - 130
Fluoranthene	1.00	0.736		ug/L		74	61 - 123
Fluorene	1.00	0.707		ug/L		71	55 - 120
Hexachlorobenzene	1.00	0.627		ug/L		63	20 - 120
Indeno[1,2,3-cd]pyrene	1.00	0.978		ug/L		98	47 - 143
Naphthalene	1.00	0.583		ug/L		58	20 - 120
N-Nitrosodimethylamine	1.00	0.909		ug/L		91	37 - 120
Phenanthrene	1.00	0.724		ug/L		72	59 - 120
Pyrene	1.00	0.711		ug/L		71	46 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Methylnaphthalene-d10 (Surr)	*62*		*36 - 111*
Benzo(a)pyrene-d12 (Surr)	*82*		*10 - 110*
Fluoranthene-d10 (Surr)	*72*		*47 - 128*

Lab Sample ID: LCSD 410-231594/3-A
Matrix: Water
Analysis Batch: 231826

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 231594

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	1.00	0.547		ug/L		55	23 - 120	6	30
1-Methylnaphthalene	1.00	0.757		ug/L		76	23 - 124	22	30
2-Methylnaphthalene	1.00	0.725		ug/L		73	20 - 133	24	30
Acenaphthene	1.00	0.770		ug/L		77	42 - 120	20	30
Acenaphthylene	1.00	0.789		ug/L		79	49 - 120	20	30
Anthracene	1.00	0.868		ug/L		87	54 - 121	16	30
Benzo[a]anthracene	1.00	0.917		ug/L		92	61 - 122	13	30
Benzo[a]pyrene	1.00	0.867		ug/L		87	60 - 120	14	30
Benzo[b]fluoranthene	1.00	0.938		ug/L		94	58 - 122	16	30
Benzo[g,h,i]perylene	1.00	0.946		ug/L		95	50 - 120	9	30
Benzo[k]fluoranthene	1.00	0.892		ug/L		89	57 - 128	12	30
Bis(2-chloroethyl)ether	1.00	1.53	*+	ug/L		153	59 - 130	7	30
Bis(2-ethylhexyl) phthalate	1.00	0.868	J	ug/L		87	14 - 155	22	30
Butylbenzylphthalate	1.00	0.514	J	ug/L		51	10 - 120	0	30
Chrysene	1.00	0.863		ug/L		86	55 - 123	16	30
Dibenz(a,h)anthracene	1.00	1.03		ug/L		103	50 - 121	9	30

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 410-231594/3-A
Matrix: Water
Analysis Batch: 231826

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 231594

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibenzofuran			1.00	0.854		ug/L		85	48 - 124	18	30
Diethylphthalate			1.00	0.786	J	ug/L		79	38 - 120	9	30
Dimethylphthalate			1.00	0.521	J	ug/L		52	10 - 121	3	30
Di-n-butyl phthalate			1.00	0.815	J	ug/L		81	46 - 125	16	30
Di-n-octyl phthalate			1.00	0.743	J	ug/L		74	22 - 130	9	30
Fluoranthene			1.00	0.883		ug/L		88	61 - 123	18	30
Fluorene			1.00	0.839		ug/L		84	55 - 120	17	30
Hexachlorobenzene			1.00	0.822		ug/L		82	20 - 120	27	30
Indeno[1,2,3-cd]pyrene			1.00	1.11		ug/L		111	47 - 143	13	30
Naphthalene			1.00	0.748		ug/L		75	20 - 120	25	30
N-Nitrosodimethylamine			1.00	0.984		ug/L		98	37 - 120	8	30
Phenanthrene			1.00	0.859		ug/L		86	59 - 120	17	30
Pyrene			1.00	0.806		ug/L		81	46 - 122	13	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Methylnaphthalene-d10 (Surr)	*79*		*36 - 111*
Benzo(a)pyrene-d12 (Surr)	*94*		*10 - 110*
Fluoranthene-d10 (Surr)	*87*		*47 - 128*

QC Association Summary

Client: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-74987-1

GC/MS VOA

Analysis Batch: 233094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-74987-1	FBW001_03032022	Total/NA	Water	8260C	
410-74987-2	FBS010_03032022	Total/NA	Water	8260C	
410-74987-3	Trip Blank	Total/NA	Water	8260C	
MB 410-233094/7	Method Blank	Total/NA	Water	8260C	
LCS 410-233094/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 410-233094/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 231594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-74987-1	FBW001_03032022	Total/NA	Water	3510C	
410-74987-2	FBS010_03032022	Total/NA	Water	3510C	
MB 410-231594/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-231594/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-231594/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 231598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-74987-1	FBW001_03032022	Total/NA	Water	3510C	
410-74987-2	FBS010_03032022	Total/NA	Water	3510C	
MB 410-231598/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-231598/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-231598/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 231826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-74987-1	FBW001_03032022	Total/NA	Water	8270D SIM	231594
410-74987-2	FBS010_03032022	Total/NA	Water	8270D SIM	231594
MB 410-231594/1-A	Method Blank	Total/NA	Water	8270D SIM	231594
LCS 410-231594/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	231594
LCSD 410-231594/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	231594

Analysis Batch: 231885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-74987-1	FBW001_03032022	Total/NA	Water	8270D	231598
410-74987-2	FBS010_03032022	Total/NA	Water	8270D	231598
MB 410-231598/1-A	Method Blank	Total/NA	Water	8270D	231598
LCS 410-231598/2-A	Lab Control Sample	Total/NA	Water	8270D	231598
LCSD 410-231598/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	231598

Lab Chronicle

Client: Environmental Works, Inc. Job ID: 410-74987-1
Project/Site: Springfield, MO – OFIWP

Client Sample ID: FBW001_03032022 Lab Sample ID: 410-74987-1

Date Collected: 03/03/22 09:20 **Matrix: Water**
Date Received: 03/04/22 10:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233094	03/14/22 16:09	TQ4J	ELLE
Total/NA	Prep	3510C			231598	03/09/22 09:52	XPN5	ELLE
Total/NA	Analysis	8270D		1	231885	03/09/22 23:29	DZ6A	ELLE
Total/NA	Prep	3510C			231594	03/09/22 09:51	XPN5	ELLE
Total/NA	Analysis	8270D SIM		1	231826	03/09/22 23:15	UJM0	ELLE

Client Sample ID: FBS010_03032022 Lab Sample ID: 410-74987-2

Date Collected: 03/03/22 09:30 **Matrix: Water**
Date Received: 03/04/22 10:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233094	03/14/22 16:31	TQ4J	ELLE
Total/NA	Prep	3510C			231598	03/09/22 09:52	XPN5	ELLE
Total/NA	Analysis	8270D		1	231885	03/09/22 23:51	DZ6A	ELLE
Total/NA	Prep	3510C			231594	03/09/22 09:51	XPN5	ELLE
Total/NA	Analysis	8270D SIM		1	231826	03/09/22 23:45	UJM0	ELLE

Client Sample ID: Trip Blank Lab Sample ID: 410-74987-3

Date Collected: 03/03/22 00:00 **Matrix: Water**
Date Received: 03/04/22 10:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233094	03/14/22 16:53	TQ4J	ELLE

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Works, Inc. Job ID: 410-74987-1
Project/Site: Springfield, MO – OFIWP

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Missouri	State	450	01-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,1,1-Trichloroethane
8260C		Water	1,1,2,2-Tetrachloroethane
8260C		Water	1,1,2-Trichloroethane
8260C		Water	1,1-Dichloroethane
8260C		Water	1,1-Dichloroethene
8260C		Water	1,2,4-Trichlorobenzene
8260C		Water	1,2,4-Trimethylbenzene
8260C		Water	1,2-Dibromo-3-Chloropropane
8260C		Water	1,2-Dibromoethane
8260C		Water	1,2-Dichlorobenzene
8260C		Water	1,2-Dichloroethane
8260C		Water	1,2-Dichloropropane
8260C		Water	1,3,5-Trimethylbenzene
8260C		Water	1,3-Dichlorobenzene
8260C		Water	1,4-Dichlorobenzene
8260C		Water	2-Butanone
8260C		Water	2-Hexanone
8260C		Water	4-Methyl-2-pentanone
8260C		Water	Acetone
8260C		Water	Benzene
8260C		Water	Bromodichloromethane
8260C		Water	Bromoform
8260C		Water	Bromomethane
8260C		Water	Carbon disulfide
8260C		Water	Carbon tetrachloride
8260C		Water	Chlorobenzene
8260C		Water	Chloroethane
8260C		Water	Chloroform
8260C		Water	Chloromethane
8260C		Water	cis-1,2-Dichloroethene
8260C		Water	cis-1,3-Dichloropropene
8260C		Water	Cyclohexane
8260C		Water	Dibromochloromethane
8260C		Water	Dichlorodifluoromethane
8260C		Water	Ethylbenzene
8260C		Water	Freon 113
8260C		Water	Isopropylbenzene
8260C		Water	Methyl acetate
8260C		Water	Methyl tertiary butyl ether
8260C		Water	Methylcyclohexane
8260C		Water	Methylene Chloride
8260C		Water	Styrene
8260C		Water	Tetrachloroethene
8260C		Water	Toluene
8260C		Water	trans-1,2-Dichloroethene

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	trans-1,3-Dichloropropene
8260C		Water	Trichloroethene
8260C		Water	Trichlorofluoromethane
8260C		Water	Vinyl chloride
8260C		Water	Xylenes, Total
8270D	3510C	Water	2,4-Dimethylphenol
8270D	3510C	Water	2,4-Dinitrophenol
8270D	3510C	Water	2-Chlorophenol
8270D	3510C	Water	Carbazole
8270D	3510C	Water	Phenol
8270D SIM	3510C	Water	1,4-Dioxane
8270D SIM	3510C	Water	1-Methylnaphthalene
8270D SIM	3510C	Water	2-Methylnaphthalene
8270D SIM	3510C	Water	Acenaphthene
8270D SIM	3510C	Water	Acenaphthylene
8270D SIM	3510C	Water	Anthracene
8270D SIM	3510C	Water	Benzo[a]anthracene
8270D SIM	3510C	Water	Benzo[a]pyrene
8270D SIM	3510C	Water	Benzo[b]fluoranthene
8270D SIM	3510C	Water	Benzo[g,h,i]perylene
8270D SIM	3510C	Water	Benzo[k]fluoranthene
8270D SIM	3510C	Water	Bis(2-chloroethyl)ether
8270D SIM	3510C	Water	Bis(2-ethylhexyl) phthalate
8270D SIM	3510C	Water	Butylbenzylphthalate
8270D SIM	3510C	Water	Chrysene
8270D SIM	3510C	Water	Dibenz(a,h)anthracene
8270D SIM	3510C	Water	Dibenzofuran
8270D SIM	3510C	Water	Diethylphthalate
8270D SIM	3510C	Water	Dimethylphthalate
8270D SIM	3510C	Water	Di-n-butyl phthalate
8270D SIM	3510C	Water	Di-n-octyl phthalate
8270D SIM	3510C	Water	Fluoranthene
8270D SIM	3510C	Water	Fluorene
8270D SIM	3510C	Water	Hexachlorobenzene
8270D SIM	3510C	Water	Indeno[1,2,3-cd]pyrene
8270D SIM	3510C	Water	Naphthalene
8270D SIM	3510C	Water	N-Nitrosodimethylamine
8270D SIM	3510C	Water	Phenanthrene
8270D SIM	3510C	Water	Pyrene

Method Summary

Client: Environmental Works, Inc. Job ID: 410-74987-1
Project/Site: Springfield, MO – OFIWP

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	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: Environmental Works, Inc.
Project/Site: Springfield, MO – OFIWP

Job ID: 410-74987-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-74987-1	FBW001_03032022	Water	03/03/22 09:20	03/04/22 10:32
410-74987-2	FBS010_03032022	Water	03/03/22 09:30	03/04/22 10:32
410-74987-3	Trip Blank	Water	03/03/22 00:00	03/04/22 10:32

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-74987-1

SDG No.:

Instrument ID: 9915 Analysis Batch Number: 199110

Lab Sample ID: IC 410-199110/11 Client Sample ID:

Date Analyzed: 11/29/21 15:48 Lab File ID: LN29X11.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Propanol	3.96	Incomplete Integration	campbellme	11/29/21 23:05
t-Butyl alcohol-d10 (IS)	4.46	Incomplete Integration	campbellme	11/29/21 23:25
n-Butanol	8.29	Incomplete Integration	campbellme	11/29/21 23:17

Lab Sample ID: IC 410-199110/12 Client Sample ID:

Date Analyzed: 11/29/21 16:10 Lab File ID: LN29X12.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	3.17	Incomplete Integration	campbellme	11/29/21 22:53
Methyl iodide	3.95	Incomplete Integration	campbellme	11/29/21 22:53
2-Propanol	3.98	Incomplete Integration	campbellme	11/29/21 23:04
t-Butyl alcohol-d10 (IS)	4.47	Incomplete Integration	campbellme	11/29/21 23:25
Propionitrile	6.42	Incomplete Integration	campbellme	11/29/21 23:10
n-Butanol	8.29	Incomplete Integration	campbellme	11/29/21 23:16
1,4-Dioxane	8.82	Incomplete Integration	campbellme	11/29/21 22:54

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-74987-1

SDG No.:

Instrument ID: 9915 Analysis Batch Number: 199110

Lab Sample ID: IC 410-199110/13 Client Sample ID:

Date Analyzed: 11/29/21 16:32 Lab File ID: LN29X13.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	3.18	Incomplete Integration	campbellme	11/29/21 22:56
Ethyl ether	3.43	Incomplete Integration	campbellme	11/29/21 22:56
2-Propanol	3.96	Split Peak	campbellme	11/29/21 23:04
t-Butyl alcohol-d10 (IS)	4.47	Incomplete Integration	campbellme	11/29/21 23:25
Propionitrile	6.42	Incomplete Integration	campbellme	11/29/21 23:11
n-Butanol	8.29	Incomplete Integration	campbellme	11/29/21 23:17

Lab Sample ID: IC 410-199110/14 Client Sample ID:

Date Analyzed: 11/29/21 16:54 Lab File ID: LN29X14.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	3.17	Incomplete Integration	campbellme	11/29/21 22:58
2-Propanol	3.97	Incomplete Integration	campbellme	11/29/21 23:04
t-Butyl alcohol-d10 (IS)	4.47	Incomplete Integration	campbellme	11/29/21 23:24
n-Butanol	8.29	Incomplete Integration	campbellme	11/29/21 23:17
1,4-Dioxane	8.82	Incomplete Integration	campbellme	11/29/21 22:58

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-74987-1

SDG No.:

Instrument ID: 9915 Analysis Batch Number: 199110

Lab Sample ID: ICIS 410-199110/15 Client Sample ID:

Date Analyzed: 11/29/21 17:16 Lab File ID: LN29X15.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	2.08	Incomplete Integration	campbellme	11/29/21 22:59
Trichlorofluoromethane	3.17	Incomplete Integration	campbellme	11/29/21 22:59
n-Butanol	8.29	Incomplete Integration	campbellme	11/29/21 23:18

Lab Sample ID: IC 410-199110/16 Client Sample ID:

Date Analyzed: 11/29/21 17:38 Lab File ID: LN29X16.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	2.08	Incomplete Integration	campbellme	11/29/21 23:00
Trichlorofluoromethane	3.17	Incomplete Integration	campbellme	11/29/21 23:00
t-Butyl alcohol-d10 (IS)	4.46	Incomplete Integration	campbellme	11/29/21 23:23
1,4-Dioxane	8.82	Incomplete Integration	campbellme	11/29/21 23:01

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-74987-1

SDG No.:

Instrument ID: 9915 Analysis Batch Number: 199110

Lab Sample ID: IC 410-199110/17 Client Sample ID:

Date Analyzed: 11/29/21 18:00 Lab File ID: LN29X17.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	2.08	Incomplete Integration	campbellme	11/29/21 23:02
t-Butyl alcohol-d10 (IS)	4.47	Incomplete Integration	campbellme	11/29/21 23:23
n-Butanol	8.29	Incomplete Integration	campbellme	11/29/21 23:18
1,4-Dioxane	8.82	Incomplete Integration	campbellme	11/29/21 23:02

Lab Sample ID: ICV 410-199110/19 Client Sample ID:

Date Analyzed: 11/29/21 18:44 Lab File ID: LN29X19.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Butanol	8.29	Incomplete Integration	campbellme	11/29/21 23:36

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-74987-1

SDG No.:

Instrument ID: 9915 Analysis Batch Number: 233094

Lab Sample ID: CCVIS 410-233094/3 Client Sample ID:

Date Analyzed: 03/14/22 09:35 Lab File ID: LM14C01.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	3.17	Incomplete Integration	mellingerc	03/14/22 10:22
t-Butyl alcohol-d10 (IS)	4.52	Incomplete Integration	mellingerc	03/14/22 10:21
1,4-Dioxane	8.82	Incomplete Integration	mellingerc	03/14/22 10:22

Lab Sample ID: 410-74987-1 Client Sample ID: FBW001_03032022

Date Analyzed: 03/14/22 16:09 Lab File ID: LM14S13.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone		Invalid Compound ID	beckerk	03/14/22 18:38

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-74987-1

SDG No.:

Instrument ID: HP23264 Analysis Batch Number: 223551

Lab Sample ID: ICIS 410-223551/2 Client Sample ID:

Date Analyzed: 02/14/22 12:11 Lab File ID: JB1401.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bis(2-chloroethyl)ether	4.26	Peak assignment corrected	bauera	02/14/22 14:53

Lab Sample ID: IC 410-223551/3 Client Sample ID:

Date Analyzed: 02/14/22 12:32 Lab File ID: JB1401a.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Chloronaphthalene	6.89	Split Peak	bauera	02/14/22 14:57
1-Chloronaphthalene	6.90	Split Peak	bauera	02/14/22 14:57
Anthracene	8.90	Baseline	bauera	02/14/22 14:59

Lab Sample ID: IC 410-223551/6 Client Sample ID:

Date Analyzed: 02/14/22 13:37 Lab File ID: JB1405.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Chloronaphthalene	6.89	Split Peak	bauera	02/14/22 15:07
1-Chloronaphthalene	6.90	Split Peak	bauera	02/14/22 15:07

Lab Sample ID: IC 410-223551/7 Client Sample ID:

Date Analyzed: 02/14/22 13:59 Lab File ID: JB1406.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene-d8 (IS)	5.74	Split Peak	bauera	02/14/22 15:08
N-Nitrosodi-n-butylamine	6.13	Baseline	bauera	02/14/22 15:26
2-Chloronaphthalene	6.89	Split Peak	bauera	02/14/22 15:09
1-Chloronaphthalene	6.90	Split Peak	bauera	02/14/22 15:09

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-74987-1

SDG No.:

Instrument ID: HP23264 Analysis Batch Number: 223551

Lab Sample ID: IC 410-223551/8 Client Sample ID:

Date Analyzed: 02/14/22 14:20 Lab File ID: JB1407.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Pyridine	2.14	Baseline	bauera	02/14/22 15:10
N,N-dimethylformamide	2.45	Baseline	bauera	02/14/22 15:11
N-Nitrosomethylethylamine	2.83	Baseline	bauera	02/14/22 15:11
N-Nitrosomorpholine	4.92	Baseline	bauera	02/14/22 15:11
Naphthalene-d8 (IS)	5.74	Split Peak	bauera	02/14/22 15:10
N-Nitrosodi-n-butylamine	6.13	Baseline	bauera	02/14/22 15:27
2-Chloronaphthalene	6.89	Baseline	bauera	02/14/22 15:12
1-Chloronaphthalene	6.90	Baseline	bauera	02/14/22 15:12
1,3-Dinitrobenzene	7.18	Baseline	bauera	02/14/22 15:12
cis-Diallate	8.33	Baseline	bauera	02/14/22 15:13
Benzo[a]pyrene	13.40	Baseline	bauera	02/14/22 15:13

Lab Sample ID: IC 410-223551/9 Client Sample ID:

Date Analyzed: 02/14/22 14:41 Lab File ID: JB1408.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.86	Baseline	bauera	02/14/22 15:14
Pyridine	2.14	Baseline	bauera	02/14/22 15:14
N,N-dimethylformamide	2.42	Invalid Compound ID	bauera	02/14/22 15:14
Caprolactam	6.11	Baseline	bauera	02/14/22 15:15
N-Nitrosodi-n-butylamine	6.13	Baseline	bauera	02/14/22 15:15
Isosafrole Peak 1	6.62	Baseline	bauera	02/14/22 15:15

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-74987-1

SDG No.:

Instrument ID: HP23264 Analysis Batch Number: 223551

Lab Sample ID: ICV 410-223551/12 Client Sample ID:

Date Analyzed: 02/14/22 15:45 Lab File ID: JB1411.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Chloronaphthalene	6.89	Split Peak	bauera	02/15/22 08:26
1-Chloronaphthalene	6.90	Split Peak	bauera	02/15/22 08:26
4-Nitrophenol	7.53	Baseline	bauera	02/15/22 08:27
Hexachlorocyclopentadiene		Invalid Compound ID	bauera	02/15/22 08:28

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-74987-1

SDG No.:

Instrument ID: HP21585 Analysis Batch Number: 217423

Lab Sample ID: ICIS 410-217423/2 Client Sample ID:

Date Analyzed: 01/25/22 05:48 Lab File ID: MA0851.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	21.79	Baseline	gamblerj	01/25/22 06:27

Lab Sample ID: IC 410-217423/3 Client Sample ID:

Date Analyzed: 01/25/22 06:30 Lab File ID: MA0852.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	21.79	Split Peak	transuea	01/25/22 12:57

Lab Sample ID: IC 410-217423/4 Client Sample ID:

Date Analyzed: 01/25/22 06:59 Lab File ID: MA0853.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	21.78	Split Peak	transuea	01/25/22 12:58

Lab Sample ID: IC 410-217423/5 Client Sample ID:

Date Analyzed: 01/25/22 07:29 Lab File ID: MA0854.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	21.79	Split Peak	transuea	01/25/22 12:59

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-74987-1

SDG No.:

Instrument ID: HP21585 Analysis Batch Number: 217423

Lab Sample ID: IC 410-217423/6 Client Sample ID:

Date Analyzed: 01/25/22 07:59 Lab File ID: MA0855.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.08	Baseline	transuea	01/25/22 12:59
N-Nitrosodimethylamine	3.57	Baseline	transuea	01/25/22 12:59
Perylene	20.17	Baseline	transuea	01/25/22 13:00
Indeno[1,2,3-cd]pyrene	21.79	Baseline	transuea	01/25/22 13:01

Lab Sample ID: IC 410-217423/7 Client Sample ID:

Date Analyzed: 01/25/22 08:29 Lab File ID: MA0856.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.10	Baseline	transuea	01/25/22 13:01
N-Nitrosodimethylamine	3.61	Baseline	transuea	01/25/22 13:01
Indeno[1,2,3-cd]pyrene	21.81	Baseline	transuea	01/25/22 13:02

Lab Sample ID: ICV 410-217423/9 Client Sample ID:

Date Analyzed: 01/25/22 09:28 Lab File ID: MA0858.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	21.78	Split Peak	transuea	01/25/22 13:05

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-74987-1

SDG No.:

Instrument ID: HP21585 Analysis Batch Number: 231826

Lab Sample ID: CCVIS 410-231826/2 Client Sample ID:

Date Analyzed: 03/09/22 18:57 Lab File ID: MC0501a.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	21.58	Split Peak	luttek	03/09/22 19:28

Lab Sample ID: MB 410-231594/1-A Client Sample ID:

Date Analyzed: 03/09/22 19:47 Lab File ID: MC0502.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Di-n-octyl phthalate		Invalid Compound ID	gamblerj	03/10/22 04:55
Diethylphthalate	12.21	Baseline	gamblerj	03/10/22 04:55

Lab Sample ID: LCS 410-231594/2-A Client Sample ID:

Date Analyzed: 03/09/22 20:16 Lab File ID: MC0503.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	21.60	Baseline	gamblerj	03/10/22 04:56

Lab Sample ID: LCSD 410-231594/3-A Client Sample ID:

Date Analyzed: 03/09/22 20:46 Lab File ID: MC0504.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bis(2-chloroethyl)ether	6.48	Baseline	gamblerj	03/10/22 04:58
Indeno[1,2,3-cd]pyrene	21.60	Baseline	gamblerj	03/10/22 04:57

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-74987-1

SDG No.:

Instrument ID: HP21585 Analysis Batch Number: 231826

Lab Sample ID: 410-74987-1 Client Sample ID: FBW001_03032022

Date Analyzed: 03/09/22 23:15 Lab File ID: MC0509.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane		Invalid Compound ID	gamblerj	03/10/22 05:01
Indeno[1,2,3-cd]pyrene		Invalid Compound ID	gamblerj	03/10/22 05:02
N-Nitrosodimethylamine		Invalid Compound ID	gamblerj	03/10/22 05:01

Lab Sample ID: 410-74987-2 Client Sample ID: FBS010_03032022

Date Analyzed: 03/09/22 23:45 Lab File ID: MC0510.D GC Column: DB-5MS 30m 0. ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Anthracene		Invalid Compound ID	gamblerj	03/10/22 05:02

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSS_RV8270_1_00020	03/31/22	11/11/21	MeCl2, Lot 216834	1 mL	MSS_FV8270_1_00022	250 uL	Benzidine	0.375 ppm
							1,3,5-Trinitrobenzene	0.125 ppm
							1,4-Dinitrobenzene	0.125 ppm
							1-Naphthylamine	0.125 ppm
							2-Acetylaminofluorene	0.125 ppm
							2-Naphthylamine	0.125 ppm
							2-Picoline	0.125 ppm
							2-Toluidine	0.125 ppm
							3,3'-Dimethylbenzidine	0.125 ppm
							4,4'-Methylene bis(2-chloroaniline)	0.125 ppm
							4-Aminobiphenyl	0.125 ppm
							4-Nitroquinoline-1-oxide	0.125 ppm
							Dibenz[a,h]acridine	0.125 ppm
							N-Nitro-o-toluidine	0.125 ppm
							N-Nitrosodi-n-butylamine	0.125 ppm
							N-Nitrosodiethylamine	0.125 ppm
							N-Nitrosomethylethylamine	0.125 ppm
							N-Nitrosomorpholine	0.125 ppm
							N-Nitrosopiperidine	0.125 ppm
							N-Nitrosopyrrolidine	0.125 ppm
							p-Dimethylamino azobenzene	0.125 ppm
							p-Phenylene diamine	0.125 ppm
							Pentachloronitrobenzene	0.125 ppm
							Phenacetin	0.125 ppm
							Pronamide	0.125 ppm
							Quinoline	0.125 ppm
							1,4-Naphthoquinone	0.125 ppm
							1-Chloronaphthalene	0.125 ppm
							7,12-Dimethylbenz(a)anthracene	0.125 ppm
							Chlorobenzilate	0.125 ppm
							Dinoseb	0.125 ppm
							Ethyl methanesulfonate	0.125 ppm
							Hexachloropropene	0.125 ppm
							Isodrin	0.125 ppm
							Isosafrole Peak 1	0.02 ppm
							Isosafrole Peak 2	0.105 ppm
							Methyl methanesulfonate	0.125 ppm
							Pentachlorobenzene	0.125 ppm
							3-Methylcholanthrene	0.125 ppm
							6-Methylchrysene	0.125 ppm
							cis-Diallate	0.0925 ppm
							Dimethoate	0.125 ppm
							Disulfoton	0.125 ppm
							Ethyl Parathion	0.125 ppm
							Methyl parathion	0.125 ppm
							o,o',o''-Triethylphosphorothioate	0.125 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phorate	0.125 ppm
							Safrole, Total	0.125 ppm
							Sulfotepp	0.125 ppm
							Thionazin	0.125 ppm
							trans-Diallate	0.0325 ppm
							2,4,6-Tribromophenol (Surr)	0.25 ppm
							2-Fluorobiphenyl (Surr)	0.25 ppm
							2-Fluorophenol (Surr)	0.25 ppm
							Nitrobenzene-d5 (Surr)	0.25 ppm
							p-Terphenyl-d14 (Surr)	0.25 ppm
							Phenol-d5 (Surr)	0.25 ppm
							Dibenz[a,j]acridine	0.125 ppm
							1,1'-Biphenyl	0.125 ppm
							1,2,4,5-Tetrachlorobenzene	0.125 ppm
							1,2,4-Trichlorobenzene	0.125 ppm
							1,2-Dichlorobenzene	0.125 ppm
							1,2-Diphenylhydrazine	0.125 ppm
							1,3-Dichlorobenzene	0.125 ppm
							1,3-Dinitrobenzene	0.125 ppm
							1,4-Dichlorobenzene	0.125 ppm
							1,4-Dioxane	0.125 ppm
							1-Methylnaphthalene	0.125 ppm
							2,2'-oxybis[1-chloropropane]	0.125 ppm
							2,3,4,6-Tetrachlorophenol	0.125 ppm
							2,4,5-Trichlorophenol	0.125 ppm
							2,4,6-Trichlorophenol	0.125 ppm
							2,4-Dichlorophenol	0.125 ppm
							2,4-Dimethylphenol	0.125 ppm
							2,4-Dinitrophenol	1.25 ppm
							2,4-Dinitrotoluene	0.125 ppm
							2,6-Dichlorophenol	0.125 ppm
							2,6-Dinitrotoluene	0.125 ppm
							2-Chloronaphthalene	0.125 ppm
							2-Chlorophenol	0.125 ppm
							2-Methylnaphthalene	0.125 ppm
							2-Methylphenol	0.125 ppm
							2-Nitroaniline	0.125 ppm
							2-Nitrophenol	0.125 ppm
							3-Nitroaniline	0.125 ppm
							4,6-Dinitro-2-methylphenol	0.75 ppm
							4-Bromophenyl phenyl ether	0.125 ppm
							4-Chloro-3-methylphenol	0.125 ppm
							4-Chloroaniline	0.125 ppm
							4-Chlorophenyl phenyl ether	0.125 ppm
							4-Methylphenol	0.125 ppm
							4-Nitroaniline	0.125 ppm
							4-Nitrophenol	0.75 ppm
							Acenaphthene	0.125 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	0.125 ppm
							Acetophenone	0.125 ppm
							Aniline	0.125 ppm
							Anthracene	0.125 ppm
							Benzo[a]anthracene	0.125 ppm
							Benzo[a]pyrene	0.125 ppm
							Benzo[b]fluoranthene	0.125 ppm
							Benzo[g,h,i]perylene	0.125 ppm
							Benzo[k]fluoranthene	0.125 ppm
							Benzyl alcohol	0.125 ppm
							Bis(2-chloroethoxy)methane	0.125 ppm
							Bis(2-chloroethyl)ether	0.125 ppm
							Bis(2-ethylhexyl) phthalate	0.125 ppm
							Butylbenzylphthalate	0.125 ppm
							Carbazole	0.125 ppm
							Chrysene	0.125 ppm
							Di-n-butyl phthalate	0.125 ppm
							Di-n-octyl phthalate	0.125 ppm
							Dibenz(a,h)anthracene	0.125 ppm
							Dibenzofuran	0.125 ppm
							Diethylphthalate	0.125 ppm
							Dimethylphthalate	0.125 ppm
							Fluoranthene	0.125 ppm
							Fluorene	0.125 ppm
							Hexachlorobenzene	0.125 ppm
							Hexachlorobutadiene	0.125 ppm
							Hexachlorocyclopentadiene	0.125 ppm
							Hexachloroethane	0.125 ppm
							Indeno[1,2,3-cd]pyrene	0.125 ppm
							Isophorone	0.125 ppm
							N-Nitrosodi-n-propylamine	0.125 ppm
							N-Nitrosodimethylamine	0.125 ppm
							N-Nitrosodiphenylamine	0.10625 ppm
							Naphthalene	0.125 ppm
							Nitrobenzene	0.125 ppm
							Pentachlorophenol	0.25 ppm
							Phenanthrene	0.125 ppm
							Phenol	0.125 ppm
							Pyrene	0.125 ppm
							Pyridine	0.25 ppm
							3,3'-Dichlorobenzidine	0.125 ppm
							Alpha-Terpineol	0.125 ppm
							Dimethylformamide	0.125 ppm
							Octachlorostyrene	0.125 ppm
							Phenyl ether	0.125 ppm
							1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_FV8270_1_00022	03/31/22	11/11/21	MeCl2, Lot 216834	2 mL	MSS_FV8270_2_00019	1000 uL	Benzidine	1.5 ppm
							1,3,5-Trinitrobenzene	0.5 ppm
							1,4-Dinitrobenzene	0.5 ppm
							1-Naphthylamine	0.5 ppm
							2-Acetylaminofluorene	0.5 ppm
							2-Naphthylamine	0.5 ppm
							2-Picoline	0.5 ppm
							2-Toluidine	0.5 ppm
							3,3'-Dimethylbenzidine	0.5 ppm
							4,4'-Methylene bis(2-chloroaniline)	0.5 ppm
							4-Aminobiphenyl	0.5 ppm
							4-Nitroquinoline-1-oxide	0.5 ppm
							Dibenz[a,h]acridine	0.5 ppm
							N-Nitro-o-toluidine	0.5 ppm
							N-Nitrosodi-n-butylamine	0.5 ppm
							N-Nitrosodiethylamine	0.5 ppm
							N-Nitrosomethylethylamine	0.5 ppm
							N-Nitrosomorpholine	0.5 ppm
							N-Nitrosopiperidine	0.5 ppm
							N-Nitrosopyrrolidine	0.5 ppm
							p-Dimethylamino azobenzene	0.5 ppm
							p-Phenylene diamine	0.5 ppm
							Pentachloronitrobenzene	0.5 ppm
							Phenacetin	0.5 ppm
							Pronamide	0.5 ppm
							Quinoline	0.5 ppm
							1,4-Naphthoquinone	0.5 ppm
							1-Chloronaphthalene	0.5 ppm
							7,12-Dimethylbenz(a)anthracene	0.5 ppm
							Chlorobenzilate	0.5 ppm
							Dinoseb	0.5 ppm
							Ethyl methanesulfonate	0.5 ppm
							Hexachloropropene	0.5 ppm
							Isodrin	0.5 ppm
							Isosafrole Peak 1	0.08 ppm
							Isosafrole Peak 2	0.42 ppm
							Methyl methanesulfonate	0.5 ppm
							Pentachlorobenzene	0.5 ppm
							3-Methylcholanthrene	0.5 ppm
							6-Methylchrysene	0.5 ppm
							cis-Diallate	0.37 ppm
							Dimethoate	0.5 ppm
							Disulfoton	0.5 ppm
							Ethyl Parathion	0.5 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl parathion	0.5 ppm
							o,o',o''-Triethylphosphorothioate	0.5 ppm
							Phorate	0.5 ppm
							Safrole, Total	0.5 ppm
							Sulfotepp	0.5 ppm
							Thionazin	0.5 ppm
							trans-Diallate	0.13 ppm
							2,4,6-Tribromophenol (Surr)	1 ppm
							2-Fluorobiphenyl (Surr)	1 ppm
							2-Fluorophenol (Surr)	1 ppm
							Nitrobenzene-d5 (Surr)	1 ppm
							p-Terphenyl-d14 (Surr)	1 ppm
							Phenol-d5 (Surr)	1 ppm
							Dibenz[a,j]acridine	0.5 ppm
							1,1'-Biphenyl	0.5 ppm
							1,2,4,5-Tetrachlorobenzene	0.5 ppm
							1,2,4-Trichlorobenzene	0.5 ppm
							1,2-Dichlorobenzene	0.5 ppm
							1,2-Diphenylhydrazine	0.5 ppm
							1,3-Dichlorobenzene	0.5 ppm
							1,3-Dinitrobenzene	0.5 ppm
							1,4-Dichlorobenzene	0.5 ppm
							1,4-Dioxane	0.5 ppm
							1-Methylnaphthalene	0.5 ppm
							2,2'-oxybis[1-chloropropane]	0.5 ppm
							2,3,4,6-Tetrachlorophenol	0.5 ppm
							2,4,5-Trichlorophenol	0.5 ppm
							2,4,6-Trichlorophenol	0.5 ppm
							2,4-Dichlorophenol	0.5 ppm
							2,4-Dimethylphenol	0.5 ppm
							2,4-Dinitrophenol	5 ppm
							2,4-Dinitrotoluene	0.5 ppm
							2,6-Dichlorophenol	0.5 ppm
							2,6-Dinitrotoluene	0.5 ppm
							2-Chloronaphthalene	0.5 ppm
							2-Chlorophenol	0.5 ppm
							2-Methylnaphthalene	0.5 ppm
							2-Methylphenol	0.5 ppm
							2-Nitroaniline	0.5 ppm
							2-Nitrophenol	0.5 ppm
							3-Nitroaniline	0.5 ppm
							4,6-Dinitro-2-methylphenol	3 ppm
							4-Bromophenyl phenyl ether	0.5 ppm
							4-Chloro-3-methylphenol	0.5 ppm
							4-Chloroaniline	0.5 ppm
							4-Chlorophenyl phenyl ether	0.5 ppm
							4-Methylphenol	0.5 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitroaniline	0.5 ppm
							4-Nitrophenol	3 ppm
							Acenaphthene	0.5 ppm
							Acenaphthylene	0.5 ppm
							Acetophenone	0.5 ppm
							Aniline	0.5 ppm
							Anthracene	0.5 ppm
							Benzo[a]anthracene	0.5 ppm
							Benzo[a]pyrene	0.5 ppm
							Benzo[b]fluoranthene	0.5 ppm
							Benzo[g,h,i]perylene	0.5 ppm
							Benzo[k]fluoranthene	0.5 ppm
							Benzyl alcohol	0.5 ppm
							Bis(2-chloroethoxy)methane	0.5 ppm
							Bis(2-chloroethyl)ether	0.5 ppm
							Bis(2-ethylhexyl) phthalate	0.5 ppm
							Butylbenzylphthalate	0.5 ppm
							Carbazole	0.5 ppm
							Chrysene	0.5 ppm
							Di-n-butyl phthalate	0.5 ppm
							Di-n-octyl phthalate	0.5 ppm
							Dibenz(a,h)anthracene	0.5 ppm
							Dibenzofuran	0.5 ppm
							Diethylphthalate	0.5 ppm
							Dimethylphthalate	0.5 ppm
							Fluoranthene	0.5 ppm
							Fluorene	0.5 ppm
							Hexachlorobenzene	0.5 ppm
							Hexachlorobutadiene	0.5 ppm
							Hexachlorocyclopentadiene	0.5 ppm
							Hexachloroethane	0.5 ppm
							Indeno[1,2,3-cd]pyrene	0.5 ppm
							Isophorone	0.5 ppm
							N-Nitrosodi-n-propylamine	0.5 ppm
							N-Nitrosodimethylamine	0.5 ppm
							N-Nitrosodiphenylamine	0.425 ppm
							Naphthalene	0.5 ppm
							Nitrobenzene	0.5 ppm
							Pentachlorophenol	1 ppm
							Phenanthrene	0.5 ppm
							Phenol	0.5 ppm
							Pyrene	0.5 ppm
							Pyridine	1 ppm
							3,3'-Dichlorobenzidine	0.5 ppm
							Alpha-Terpineol	0.5 ppm
							Dimethylformamide	0.5 ppm
							Octachlorostyrene	0.5 ppm
							Phenyl ether	0.5 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
					MSS_FV8270_IS_00005	20 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
..MSS_FV8270_2_00019	03/31/22	11/11/21	MeCl2, Lot 216834	5 mL	MSS_8270_APWS_00006	20 uL	Benzidine	3 ppm
							1,3,5-Trinitrobenzene	1 ppm
							1,4-Dinitrobenzene	1 ppm
							1-Naphthylamine	1 ppm
							2-Acetylaminofluorene	1 ppm
							2-Naphthylamine	1 ppm
							2-Picoline	1 ppm
							2-Toluidine	1 ppm
							3,3'-Dimethylbenzidine	1 ppm
							4,4'-Methylene bis(2-chloroaniline)	1 ppm
							4-Aminobiphenyl	1 ppm
							4-Nitroquinoline-1-oxide	1 ppm
							Dibenz[a,h]acridine	1 ppm
							N-Nitro-o-toluidine	1 ppm
							N-Nitrosodi-n-butylamine	1 ppm
							N-Nitrosodiethylamine	1 ppm
							N-Nitrosomethylethylamine	1 ppm
							N-Nitrosomorpholine	1 ppm
							N-Nitrosopiperidine	1 ppm
							N-Nitrosopyrrolidine	1 ppm
							p-Dimethylamino azobenzene	1 ppm
							p-Phenylene diamine	1 ppm
							Pentachloronitrobenzene	1 ppm
							Phenacetin	1 ppm
							Pronamide	1 ppm
							Quinoline	1 ppm
							1,4-Naphthoquinone	1 ppm
							1-Chloronaphthalene	1 ppm
							7,12-Dimethylbenz(a)anthracene	1 ppm
							Chlorobenzilate	1 ppm
							Dinoseb	1 ppm
							Ethyl methanesulfonate	1 ppm
							Hexachloropropene	1 ppm
							Isodrin	1 ppm
							Isosafrole Peak 1	0.16 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isosafrole Peak 2	0.84 ppm
							Methyl methanesulfonate	1 ppm
							Pentachlorobenzene	1 ppm
							3-Methylcholanthrene	1 ppm
							6-Methylchrysene	1 ppm
							cis-Diallate	0.74 ppm
							Dimethoate	1 ppm
							Disulfoton	1 ppm
							Ethyl Parathion	1 ppm
							Methyl parathion	1 ppm
							o,o',o''-Triethylphosphorothioate	1 ppm
							Phorate	1 ppm
							Safrole, Total	1 ppm
							Sulfotepp	1 ppm
							Thionazin	1 ppm
							trans-Diallate	0.26 ppm
					MSS_8270_WS_00009	20 uL	2,4,6-Tribromophenol (Surr)	2 ppm
							2-Fluorobiphenyl (Surr)	2 ppm
							2-Fluorophenol (Surr)	2 ppm
							Nitrobenzene-d5 (Surr)	2 ppm
							p-Terphenyl-d14 (Surr)	2 ppm
							Phenol-d5 (Surr)	2 ppm
							Dibenz[a,j]acridine	1 ppm
							1,1'-Biphenyl	1 ppm
							1,2,4,5-Tetrachlorobenzene	1 ppm
							1,2,4-Trichlorobenzene	1 ppm
							1,2-Dichlorobenzene	1 ppm
							1,2-Diphenylhydrazine	1 ppm
							1,3-Dichlorobenzene	1 ppm
							1,3-Dinitrobenzene	1 ppm
							1,4-Dichlorobenzene	1 ppm
							1,4-Dioxane	1 ppm
							1-Methylnaphthalene	1 ppm
							2,2'-oxybis[1-chloropropane]	1 ppm
							2,3,4,6-Tetrachlorophenol	1 ppm
							2,4,5-Trichlorophenol	1 ppm
							2,4,6-Trichlorophenol	1 ppm
							2,4-Dichlorophenol	1 ppm
							2,4-Dimethylphenol	1 ppm
							2,4-Dinitrophenol	10 ppm
							2,4-Dinitrotoluene	1 ppm
							2,6-Dichlorophenol	1 ppm
							2,6-Dinitrotoluene	1 ppm
							2-Chloronaphthalene	1 ppm
							2-Chlorophenol	1 ppm
							2-Methylnaphthalene	1 ppm
							2-Methylphenol	1 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitroaniline	1 ppm
							2-Nitrophenol	1 ppm
							3-Nitroaniline	1 ppm
							4,6-Dinitro-2-methylphenol	6 ppm
							4-Bromophenyl phenyl ether	1 ppm
							4-Chloro-3-methylphenol	1 ppm
							4-Chloroaniline	1 ppm
							4-Chlorophenyl phenyl ether	1 ppm
							4-Methylphenol	1 ppm
							4-Nitroaniline	1 ppm
							4-Nitrophenol	6 ppm
							Acenaphthene	1 ppm
							Acenaphthylene	1 ppm
							Acetophenone	1 ppm
							Aniline	1 ppm
							Anthracene	1 ppm
							Benzo[a]anthracene	1 ppm
							Benzo[a]pyrene	1 ppm
							Benzo[b]fluoranthene	1 ppm
							Benzo[g,h,i]perylene	1 ppm
							Benzo[k]fluoranthene	1 ppm
							Benzyl alcohol	1 ppm
							Bis(2-chloroethoxy)methane	1 ppm
							Bis(2-chloroethyl)ether	1 ppm
							Bis(2-ethylhexyl) phthalate	1 ppm
							Butylbenzylphthalate	1 ppm
							Carbazole	1 ppm
							Chrysene	1 ppm
							Di-n-butyl phthalate	1 ppm
							Di-n-octyl phthalate	1 ppm
							Dibenz(a,h)anthracene	1 ppm
							Dibenzofuran	1 ppm
							Diethylphthalate	1 ppm
							Dimethylphthalate	1 ppm
							Fluoranthene	1 ppm
							Fluorene	1 ppm
							Hexachlorobenzene	1 ppm
							Hexachlorobutadiene	1 ppm
							Hexachlorocyclopentadiene	1 ppm
							Hexachloroethane	1 ppm
							Indeno[1,2,3-cd]pyrene	1 ppm
							Isophorone	1 ppm
							N-Nitrosodi-n-propylamine	1 ppm
							N-Nitrosodimethylamine	1 ppm
							N-Nitrosodiphenylamine	0.85 ppm
							Naphthalene	1 ppm
							Nitrobenzene	1 ppm
							Pentachlorophenol	2 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	1 ppm
							Phenol	1 ppm
							Pyrene	1 ppm
							Pyridine	2 ppm
							3,3'-Dichlorobenzidine	1 ppm
							Benzidine	3 ppm
							Alpha-Terpineol	1 ppm
							Dimethylformamide	1 ppm
							Octachlorostyrene	1 ppm
							Phenyl ether	1 ppm
					MSS_AB_24DNP_00006	40 uL	2,4-Dinitrophenol	10 ppm
					MSS_AB_46D2MP_00004	20 uL	4,6-Dinitro-2-methylphenol	6 ppm
					MSS_AB_4NP_00003	20 uL	4-Nitrophenol	6 ppm
					MSS_FV8270_IS_00005	100 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
...MSS_8270_APWS_00006	03/31/22	11/10/21	MeCl2, Lot 216834	10 mL	MSS_AB_BZIDIN_00007	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00004	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm
							2-Acetylaminofluorene	250 ppm
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00006	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00004	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00005	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm
							trans-Diallate	65 ppm
....MSS_AB_BZIDIN_00007	01/29/23		Absolute, Lot 012920		(Purchased Reagent)		Benzidine	5000 ug/mL
....OP_RES_APPX1_00004	05/31/22		Restek, Lot A0172197		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
....OP_RES_APPX2_00006	03/31/22		Restek, Lot A0169617		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
....OP_RES_APPX3_00004	03/31/22		Restek, Lot A0170153		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
....OP_RES_APPX4_00005	01/31/23		Restek, Lot A0168635		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL
							trans-Diallate	260 ug/mL
...MSS_8270_WS_00009	05/10/22	11/10/21	MeCl2, Lot 216834	10 mL	MSS_8270_SURR_00004	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_RES_APPX6_00002	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00007	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butylbenzylphthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethylphthalate	250 ppm
							Dimethylphthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00005	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
					OP_RES_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm
....MSS_8270_SURR_00004	10/31/23		Sigma- Aldrich, Lot LRAC8467		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
....OP_RES_APPX6_00002	12/31/23		Restek, Lot A0167365		(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
....OP_RES_LCS1_00007	02/28/23		Restek, Lot A0175066		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....OP_RES_LCS2_00005	07/31/22		Restek, Lot A0168211		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
....OP_RES_LCSadd_00001	12/31/23		Restek, Lot A0166837		(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
...MSS_AB_24DNP_00006	09/05/23		Absolute, Lot 090518		(Purchased Reagent)		2,4-Dinitrophenol	1000 ug/mL
...MSS_AB_46D2MP_00004	11/19/24		Absolute, Lot 111924		(Purchased Reagent)		4,6-Dinitro-2-methylphenol	1000 ug/mL
...MSS_AB_4NP_00003	07/24/23		Absolute, Lot 072418		(Purchased Reagent)		4-Nitrophenol	1000 ug/mL
...MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
							1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_2_00019	03/20/22	11/11/21	MeCl2, Lot 216834	3 mL	MSS_BAS_WS_00004	7.5 uL	Atrazine	0.25 ppm
							Benzaldehyde	0.25 ppm
							Caprolactam	0.25 ppm
					MSS_FV8270_2_00019	750 uL	Benzidine	0.75 ppm
							1,3,5-Trinitrobenzene	0.25 ppm
							1,4-Dinitrobenzene	0.25 ppm
							1-Naphthylamine	0.25 ppm
							2-Acetylaminofluorene	0.25 ppm
							2-Naphthylamine	0.25 ppm
							2-Picoline	0.25 ppm
							2-Toluidine	0.25 ppm
							3,3'-Dimethylbenzidine	0.25 ppm
							4,4'-Methylene bis(2-chloroaniline)	0.25 ppm
							4-Aminobiphenyl	0.25 ppm
							4-Nitroquinoline-1-oxide	0.25 ppm
							Dibenz[a,h]acridine	0.25 ppm
							N-Nitro-o-toluidine	0.25 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-butylamine	0.25 ppm
							N-Nitrosodiethylamine	0.25 ppm
							N-Nitrosomethylethylamine	0.25 ppm
							N-Nitrosomorpholine	0.25 ppm
							N-Nitrosopiperidine	0.25 ppm
							N-Nitrosopyrrolidine	0.25 ppm
							p-Dimethylamino azobenzene	0.25 ppm
							p-Phenylene diamine	0.25 ppm
							Pentachloronitrobenzene	0.25 ppm
							Phenacetin	0.25 ppm
							Pronamide	0.25 ppm
							Quinoline	0.25 ppm
							1,4-Naphthoquinone	0.25 ppm
							1-Chloronaphthalene	0.25 ppm
							7,12-Dimethylbenz(a)anthracene	0.25 ppm
							Chlorobenzilate	0.25 ppm
							Dinoseb	0.25 ppm
							Ethyl methanesulfonate	0.25 ppm
							Hexachloropropene	0.25 ppm
							Isodrin	0.25 ppm
							Isosafrole Peak 1	0.04 ppm
							Isosafrole Peak 2	0.21 ppm
							Methyl methanesulfonate	0.25 ppm
							Pentachlorobenzene	0.25 ppm
							3-Methylcholanthrene	0.25 ppm
							6-Methylchrysene	0.25 ppm
							cis-Diallate	0.185 ppm
							Dimethoate	0.25 ppm
							Disulfoton	0.25 ppm
							Ethyl Parathion	0.25 ppm
							Methyl parathion	0.25 ppm
							o,o',o''-Triethylphosphorothioate	0.25 ppm
							Phorate	0.25 ppm
							Safrole, Total	0.25 ppm
							Sulfotepp	0.25 ppm
							Thionazin	0.25 ppm
							trans-Diallate	0.065 ppm
							2,4,6-Tribromophenol (Surr)	0.5 ppm
							2-Fluorobiphenyl (Surr)	0.5 ppm
							2-Fluorophenol (Surr)	0.5 ppm
							Nitrobenzene-d5 (Surr)	0.5 ppm
							p-Terphenyl-d14 (Surr)	0.5 ppm
							Phenol-d5 (Surr)	0.5 ppm
							Dibenz[a,j]acridine	0.25 ppm
							1,1'-Biphenyl	0.25 ppm
							1,2,4,5-Tetrachlorobenzene	0.25 ppm
							1,2,4-Trichlorobenzene	0.25 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	0.25 ppm
							1,2-Diphenylhydrazine	0.25 ppm
							1,3-Dichlorobenzene	0.25 ppm
							1,3-Dinitrobenzene	0.25 ppm
							1,4-Dichlorobenzene	0.25 ppm
							1,4-Dioxane	0.25 ppm
							1-Methylnaphthalene	0.25 ppm
							2,2'-oxybis[1-chloropropane]	0.25 ppm
							2,3,4,6-Tetrachlorophenol	0.25 ppm
							2,4,5-Trichlorophenol	0.25 ppm
							2,4,6-Trichlorophenol	0.25 ppm
							2,4-Dichlorophenol	0.25 ppm
							2,4-Dimethylphenol	0.25 ppm
							2,4-Dinitrophenol	2.5 ppm
							2,4-Dinitrotoluene	0.25 ppm
							2,6-Dichlorophenol	0.25 ppm
							2,6-Dinitrotoluene	0.25 ppm
							2-Chloronaphthalene	0.25 ppm
							2-Chlorophenol	0.25 ppm
							2-Methylnaphthalene	0.25 ppm
							2-Methylphenol	0.25 ppm
							2-Nitroaniline	0.25 ppm
							2-Nitrophenol	0.25 ppm
							3-Nitroaniline	0.25 ppm
							4,6-Dinitro-2-methylphenol	1.5 ppm
							4-Bromophenyl phenyl ether	0.25 ppm
							4-Chloro-3-methylphenol	0.25 ppm
							4-Chloroaniline	0.25 ppm
							4-Chlorophenyl phenyl ether	0.25 ppm
							4-Methylphenol	0.25 ppm
							4-Nitroaniline	0.25 ppm
							4-Nitrophenol	1.5 ppm
							Acenaphthene	0.25 ppm
							Acenaphthylene	0.25 ppm
							Acetophenone	0.25 ppm
							Aniline	0.25 ppm
							Anthracene	0.25 ppm
							Benzo[a]anthracene	0.25 ppm
							Benzo[a]pyrene	0.25 ppm
							Benzo[b]fluoranthene	0.25 ppm
							Benzo[g,h,i]perylene	0.25 ppm
							Benzo[k]fluoranthene	0.25 ppm
							Benzyl alcohol	0.25 ppm
							Bis(2-chloroethoxy)methane	0.25 ppm
							Bis(2-chloroethyl)ether	0.25 ppm
							Bis(2-ethylhexyl) phthalate	0.25 ppm
							Butylbenzylphthalate	0.25 ppm
							Carbazole	0.25 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	0.25 ppm
							Di-n-butyl phthalate	0.25 ppm
							Di-n-octyl phthalate	0.25 ppm
							Dibenz(a,h)anthracene	0.25 ppm
							Dibenzofuran	0.25 ppm
							Diethylphthalate	0.25 ppm
							Dimethylphthalate	0.25 ppm
							Fluoranthene	0.25 ppm
							Fluorene	0.25 ppm
							Hexachlorobenzene	0.25 ppm
							Hexachlorobutadiene	0.25 ppm
							Hexachlorocyclopentadiene	0.25 ppm
							Hexachloroethane	0.25 ppm
							Indeno[1,2,3-cd]pyrene	0.25 ppm
							Isophorone	0.25 ppm
							N-Nitrosodi-n-propylamine	0.25 ppm
							N-Nitrosodimethylamine	0.25 ppm
							N-Nitrosodiphenylamine	0.2125 ppm
							Naphthalene	0.25 ppm
							Nitrobenzene	0.25 ppm
							Pentachlorophenol	0.5 ppm
							Phenanthrene	0.25 ppm
							Phenol	0.25 ppm
							Pyrene	0.25 ppm
							Pyridine	0.5 ppm
							3,3'-Dichlorobenzidine	0.25 ppm
							Alpha-Terpineol	0.25 ppm
							Dimethylformamide	0.25 ppm
							Octachlorostyrene	0.25 ppm
							Phenyl ether	0.25 ppm
							1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_BAS_WS_00004	03/20/22	09/20/21	MeCl2, Lot 214668	5 mL	OP_LCSmix2stk_00002	250 uL	Atrazine	100 ppm
							Benzaldehyde	100 ppm
							Caprolactam	100 ppm
..OP_LCSmix2stk_00002	03/31/22		Restek, Lot A0164387		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.MSS_FV8270_2_00019	03/31/22	11/11/21	MeCl2, Lot 216834	5 mL	MSS_8270_APWS_00006	20 uL	Benzidine	3 ppm
							1,3,5-Trinitrobenzene	1 ppm
							1,4-Dinitrobenzene	1 ppm
							1-Naphthylamine	1 ppm
							2-Acetylaminofluorene	1 ppm
							2-Naphthylamine	1 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Picoline	1 ppm
							2-Toluidine	1 ppm
							3,3'-Dimethylbenzidine	1 ppm
							4,4'-Methylene bis(2-chloroaniline)	1 ppm
							4-Aminobiphenyl	1 ppm
							4-Nitroquinoline-1-oxide	1 ppm
							Dibenz[a,h]acridine	1 ppm
							N-Nitro-o-toluidine	1 ppm
							N-Nitrosodi-n-butylamine	1 ppm
							N-Nitrosodiethylamine	1 ppm
							N-Nitrosomethylethylamine	1 ppm
							N-Nitrosomorpholine	1 ppm
							N-Nitrosopiperidine	1 ppm
							N-Nitrosopyrrolidine	1 ppm
							p-Dimethylamino azobenzene	1 ppm
							p-Phenylene diamine	1 ppm
							Pentachloronitrobenzene	1 ppm
							Phenacetin	1 ppm
							Pronamide	1 ppm
							Quinoline	1 ppm
							1,4-Naphthoquinone	1 ppm
							1-Chloronaphthalene	1 ppm
							7,12-Dimethylbenz(a)anthracene	1 ppm
							Chlorobenzilate	1 ppm
							Dinoseb	1 ppm
							Ethyl methanesulfonate	1 ppm
							Hexachloropropene	1 ppm
							Isodrin	1 ppm
							Isosafrole Peak 1	0.16 ppm
							Isosafrole Peak 2	0.84 ppm
							Methyl methanesulfonate	1 ppm
							Pentachlorobenzene	1 ppm
							3-Methylcholanthrene	1 ppm
							6-Methylchrysene	1 ppm
							cis-Diallate	0.74 ppm
							Dimethoate	1 ppm
							Disulfoton	1 ppm
							Ethyl Parathion	1 ppm
							Methyl parathion	1 ppm
							o,o',o''-Triethylphosphorothioate	1 ppm
							Phorate	1 ppm
							Safrole, Total	1 ppm
							Sulfotepp	1 ppm
							Thionazin	1 ppm
							trans-Diallate	0.26 ppm
					MSS_8270_WS_00009	20 uL	2,4,6-Tribromophenol (Surr)	2 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorobiphenyl (Surr)	2 ppm
							2-Fluorophenol (Surr)	2 ppm
							Nitrobenzene-d5 (Surr)	2 ppm
							p-Terphenyl-d14 (Surr)	2 ppm
							Phenol-d5 (Surr)	2 ppm
							Dibenz[a,j]acridine	1 ppm
							1,1'-Biphenyl	1 ppm
							1,2,4,5-Tetrachlorobenzene	1 ppm
							1,2,4-Trichlorobenzene	1 ppm
							1,2-Dichlorobenzene	1 ppm
							1,2-Diphenylhydrazine	1 ppm
							1,3-Dichlorobenzene	1 ppm
							1,3-Dinitrobenzene	1 ppm
							1,4-Dichlorobenzene	1 ppm
							1,4-Dioxane	1 ppm
							1-Methylnaphthalene	1 ppm
							2,2'-oxybis[1-chloropropane]	1 ppm
							2,3,4,6-Tetrachlorophenol	1 ppm
							2,4,5-Trichlorophenol	1 ppm
							2,4,6-Trichlorophenol	1 ppm
							2,4-Dichlorophenol	1 ppm
							2,4-Dimethylphenol	1 ppm
							2,4-Dinitrophenol	10 ppm
							2,4-Dinitrotoluene	1 ppm
							2,6-Dichlorophenol	1 ppm
							2,6-Dinitrotoluene	1 ppm
							2-Chloronaphthalene	1 ppm
							2-Chlorophenol	1 ppm
							2-Methylnaphthalene	1 ppm
							2-Methylphenol	1 ppm
							2-Nitroaniline	1 ppm
							2-Nitrophenol	1 ppm
							3-Nitroaniline	1 ppm
							4,6-Dinitro-2-methylphenol	6 ppm
							4-Bromophenyl phenyl ether	1 ppm
							4-Chloro-3-methylphenol	1 ppm
							4-Chloroaniline	1 ppm
							4-Chlorophenyl phenyl ether	1 ppm
							4-Methylphenol	1 ppm
							4-Nitroaniline	1 ppm
							4-Nitrophenol	6 ppm
							Acenaphthene	1 ppm
							Acenaphthylene	1 ppm
							Acetophenone	1 ppm
							Aniline	1 ppm
							Anthracene	1 ppm
							Benzo[a]anthracene	1 ppm
							Benzo[a]pyrene	1 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	1 ppm
							Benzo[g,h,i]perylene	1 ppm
							Benzo[k]fluoranthene	1 ppm
							Benzyl alcohol	1 ppm
							Bis(2-chloroethoxy)methane	1 ppm
							Bis(2-chloroethyl)ether	1 ppm
							Bis(2-ethylhexyl) phthalate	1 ppm
							Butylbenzylphthalate	1 ppm
							Carbazole	1 ppm
							Chrysene	1 ppm
							Di-n-butyl phthalate	1 ppm
							Di-n-octyl phthalate	1 ppm
							Dibenz(a,h)anthracene	1 ppm
							Dibenzofuran	1 ppm
							Diethylphthalate	1 ppm
							Dimethylphthalate	1 ppm
							Fluoranthene	1 ppm
							Fluorene	1 ppm
							Hexachlorobenzene	1 ppm
							Hexachlorobutadiene	1 ppm
							Hexachlorocyclopentadiene	1 ppm
							Hexachloroethane	1 ppm
							Indeno[1,2,3-cd]pyrene	1 ppm
							Isophorone	1 ppm
							N-Nitrosodi-n-propylamine	1 ppm
							N-Nitrosodimethylamine	1 ppm
							N-Nitrosodiphenylamine	0.85 ppm
							Naphthalene	1 ppm
							Nitrobenzene	1 ppm
							Pentachlorophenol	2 ppm
							Phenanthrene	1 ppm
							Phenol	1 ppm
							Pyrene	1 ppm
							Pyridine	2 ppm
							3,3'-Dichlorobenzidine	1 ppm
							Benzidine	3 ppm
							Alpha-Terpineol	1 ppm
							Dimethylformamide	1 ppm
							Octachlorostyrene	1 ppm
							Phenyl ether	1 ppm
					MSS_AB_24DNP_00006	40 uL	2,4-Dinitrophenol	10 ppm
					MSS_AB_46D2MP_00004	20 uL	4,6-Dinitro-2-methylphenol	6 ppm
					MSS_AB_4NP_00003	20 uL	4-Nitrophenol	6 ppm
					MSS_FV8270_IS_00005	100 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene-d10 (IS)	20 ppm
..MSS_8270_APWS_00006	03/31/22	11/10/21	MeCl2, Lot 216834	10 mL	MSS_AB_BZIDIN_00007	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00004	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm
							2-Acetylaminofluorene	250 ppm
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00006	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00004	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00005	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm
							trans-Diallate	65 ppm
...MSS_AB_BZIDIN_00007	01/29/23		Absolute, Lot 012920		(Purchased Reagent)		Benzidine	5000 ug/mL
...OP_RES_APPX1_00004	05/31/22		Restek, Lot A0172197		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
...OP_RES_APPX2_00006	03/31/22		Restek, Lot A0169617		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
...OP_RES_APPX3_00004	03/31/22		Restek, Lot A0170153		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...OP_RES_APPX4_00005	01/31/23		Restek, Lot A0168635		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL
							trans-Diallate	260 ug/mL
..MSS_8270_WS_00009	05/10/22	11/10/21	MeCl2, Lot 216834	10 mL	MSS_8270_SURR_00004	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_RES_APPX6_00002	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00007	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butylbenzylphthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethylphthalate	250 ppm
							Dimethylphthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00005	1250 uL	3,3'-Dichlorobenzidine	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzidine	250 ppm
					OP_RES_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm
...MSS_8270_SURR_00004	10/31/23		Sigma- Aldrich, Lot LRAC8467		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
...OP_RES_APPX6_00002	12/31/23		Restek, Lot A0167365		(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
...OP_RES_LCS1_00007	02/28/23		Restek, Lot A0175066		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...OP_RES_LCS2_00005	07/31/22		Restek, Lot A0168211		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
...OP_RES_LCSadd_00001	12/31/23		Restek, Lot A0166837		(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
..MSS_AB_24DNP_00006	09/05/23		Absolute, Lot 090518		(Purchased Reagent)		2,4-Dinitrophenol	1000 ug/mL
..MSS_AB_46D2MP_00004	11/19/24		Absolute, Lot 111924		(Purchased Reagent)		4,6-Dinitro-2-methylphenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MSS_AB_4NP_00003	07/24/23		Absolute, Lot 072418		(Purchased Reagent)		4-Nitrophenol	1000 ug/mL
..MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_3_00018	03/20/22	11/11/21	MeCl2, Lot 216834	1 mL	MSS_BAS_WS_00004	12.5 uL	Atrazine	1.25 ppm
							Benzaldehyde	1.25 ppm
							Caprolactam	1.25 ppm
					MSS_FV8270_3_00020	250 uL	Benzidine	3.75 ppm
							1,3,5-Trinitrobenzene	1.25 ppm
							1,4-Dinitrobenzene	1.25 ppm
							1-Naphthylamine	1.25 ppm
							2-Acetylaminofluorene	1.25 ppm
							2-Naphthylamine	1.25 ppm
							2-Picoline	1.25 ppm
							2-Toluidine	1.25 ppm
							3,3'-Dimethylbenzidine	1.25 ppm
							4,4'-Methylene bis(2-chloroaniline)	1.25 ppm
							4-Aminobiphenyl	1.25 ppm
							4-Nitroquinoline-1-oxide	1.25 ppm
							Dibenz[a,h]acridine	1.25 ppm
							N-Nitro-o-toluidine	1.25 ppm
							N-Nitrosodi-n-butylamine	1.25 ppm
							N-Nitrosodiethylamine	1.25 ppm
							N-Nitrosomethylethylamine	1.25 ppm
							N-Nitrosomorpholine	1.25 ppm
							N-Nitrosopiperidine	1.25 ppm
							N-Nitrosopyrrolidine	1.25 ppm
							p-Dimethylamino azobenzene	1.25 ppm
							p-Phenylene diamine	1.25 ppm
							Pentachloronitrobenzene	1.25 ppm
							Phenacetin	1.25 ppm
							Pronamide	1.25 ppm
							Quinoline	1.25 ppm
							1,4-Naphthoquinone	1.25 ppm
							1-Chloronaphthalene	1.25 ppm
							7,12-Dimethylbenz(a)anthracene	1.25 ppm
							Chlorobenzilate	1.25 ppm
							Dinoseb	1.25 ppm
							Ethyl methanesulfonate	1.25 ppm
							Hexachloropropene	1.25 ppm
							Isodrin	1.25 ppm
							Isosafrole Peak 1	0.2 ppm
							Isosafrole Peak 2	1.05 ppm
							Methyl methanesulfonate	1.25 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pentachlorobenzene	1.25 ppm
							3-Methylcholanthrene	1.25 ppm
							6-Methylchrysene	1.25 ppm
							cis-Diallate	0.925 ppm
							Dimethoate	1.25 ppm
							Disulfoton	1.25 ppm
							Ethyl Parathion	1.25 ppm
							Methyl parathion	1.25 ppm
							o,o',o''-Triethylphosphorothioate	1.25 ppm
							Phorate	1.25 ppm
							Safrole, Total	1.25 ppm
							Sulfotepp	1.25 ppm
							Thionazin	1.25 ppm
							trans-Diallate	0.325 ppm
							2,4,6-Tribromophenol (Surr)	2.5 ppm
							2-Fluorobiphenyl (Surr)	2.5 ppm
							2-Fluorophenol (Surr)	2.5 ppm
							Nitrobenzene-d5 (Surr)	2.5 ppm
							p-Terphenyl-d14 (Surr)	2.5 ppm
							Phenol-d5 (Surr)	2.5 ppm
							Dibenz[a,j]acridine	1.25 ppm
							1,1'-Biphenyl	1.25 ppm
							1,2,4,5-Tetrachlorobenzene	1.25 ppm
							1,2,4-Trichlorobenzene	1.25 ppm
							1,2-Dichlorobenzene	1.25 ppm
							1,2-Diphenylhydrazine	1.25 ppm
							1,3-Dichlorobenzene	1.25 ppm
							1,3-Dinitrobenzene	1.25 ppm
							1,4-Dichlorobenzene	1.25 ppm
							1,4-Dioxane	1.25 ppm
							1-Methylnaphthalene	1.25 ppm
							2,2'-oxybis[1-chloropropane]	1.25 ppm
							2,3,4,6-Tetrachlorophenol	1.25 ppm
							2,4,5-Trichlorophenol	1.25 ppm
							2,4,6-Trichlorophenol	1.25 ppm
							2,4-Dichlorophenol	1.25 ppm
							2,4-Dimethylphenol	1.25 ppm
							2,4-Dinitrophenol	5 ppm
							2,4-Dinitrotoluene	1.25 ppm
							2,6-Dichlorophenol	1.25 ppm
							2,6-Dinitrotoluene	1.25 ppm
							2-Chloronaphthalene	1.25 ppm
							2-Chlorophenol	1.25 ppm
							2-Methylnaphthalene	1.25 ppm
							2-Methylphenol	1.25 ppm
							2-Nitroaniline	1.25 ppm
							2-Nitrophenol	1.25 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitroaniline	1.25 ppm
							4,6-Dinitro-2-methylphenol	3.75 ppm
							4-Bromophenyl phenyl ether	1.25 ppm
							4-Chloro-3-methylphenol	1.25 ppm
							4-Chloroaniline	1.25 ppm
							4-Chlorophenyl phenyl ether	1.25 ppm
							4-Methylphenol	1.25 ppm
							4-Nitroaniline	1.25 ppm
							4-Nitrophenol	3.75 ppm
							Acenaphthene	1.25 ppm
							Acenaphthylene	1.25 ppm
							Acetophenone	1.25 ppm
							Aniline	1.25 ppm
							Anthracene	1.25 ppm
							Benzo[a]anthracene	1.25 ppm
							Benzo[a]pyrene	1.25 ppm
							Benzo[b]fluoranthene	1.25 ppm
							Benzo[g,h,i]perylene	1.25 ppm
							Benzo[k]fluoranthene	1.25 ppm
							Benzyl alcohol	1.25 ppm
							Bis(2-chloroethoxy)methane	1.25 ppm
							Bis(2-chloroethyl)ether	1.25 ppm
							Bis(2-ethylhexyl) phthalate	1.25 ppm
							Butylbenzylphthalate	1.25 ppm
							Carbazole	1.25 ppm
							Chrysene	1.25 ppm
							Di-n-butyl phthalate	1.25 ppm
							Di-n-octyl phthalate	1.25 ppm
							Dibenz(a,h)anthracene	1.25 ppm
							Dibenzofuran	1.25 ppm
							Diethylphthalate	1.25 ppm
							Dimethylphthalate	1.25 ppm
							Fluoranthene	1.25 ppm
							Fluorene	1.25 ppm
							Hexachlorobenzene	1.25 ppm
							Hexachlorobutadiene	1.25 ppm
							Hexachlorocyclopentadiene	1.25 ppm
							Hexachloroethane	1.25 ppm
							Indeno[1,2,3-cd]pyrene	1.25 ppm
							Isophorone	1.25 ppm
							N-Nitrosodi-n-propylamine	1.25 ppm
							N-Nitrosodimethylamine	1.25 ppm
							N-Nitrosodiphenylamine	1.0625 ppm
							Naphthalene	1.25 ppm
							Nitrobenzene	1.25 ppm
							Pentachlorophenol	2.5 ppm
							Phenanthrene	1.25 ppm
							Phenol	1.25 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	1.25 ppm
							Pyridine	2.5 ppm
							3,3'-Dichlorobenzidine	1.25 ppm
							Alpha-Terpineol	1.25 ppm
							Dimethylformamide	1.25 ppm
							Octachlorostyrene	1.25 ppm
							Phenyl ether	1.25 ppm
							1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_BAS_WS_00004	03/20/22	09/20/21	MeCl2, Lot 214668	5 mL	OP_LCSmix2stk_00002	250 uL	Atrazine	100 ppm
							Benzaldehyde	100 ppm
							Caprolactam	100 ppm
..OP_LCSmix2stk_00002	03/31/22		Restek, Lot A0164387		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.MSS_FV8270_3_00020	03/31/22	11/11/21	MeCl2, Lot 216834	2 mL	MSS_8270_APWS_00006	40 uL	Benzidine	15 ppm
							1,3,5-Trinitrobenzene	5 ppm
							1,4-Dinitrobenzene	5 ppm
							1-Naphthylamine	5 ppm
							2-Acetylaminofluorene	5 ppm
							2-Naphthylamine	5 ppm
							2-Picoline	5 ppm
							2-Toluidine	5 ppm
							3,3'-Dimethylbenzidine	5 ppm
							4,4'-Methylene bis(2-chloroaniline)	5 ppm
							4-Aminobiphenyl	5 ppm
							4-Nitroquinoline-1-oxide	5 ppm
							Dibenz[a,h]acridine	5 ppm
							N-Nitro-o-toluidine	5 ppm
							N-Nitrosodi-n-butylamine	5 ppm
							N-Nitrosodiethylamine	5 ppm
							N-Nitrosomethylethylamine	5 ppm
							N-Nitrosomorpholine	5 ppm
							N-Nitrosopiperidine	5 ppm
							N-Nitrosopyrrolidine	5 ppm
							p-Dimethylamino azobenzene	5 ppm
							p-Phenylene diamine	5 ppm
							Pentachloronitrobenzene	5 ppm
							Phenacetin	5 ppm
							Pronamide	5 ppm
							Quinoline	5 ppm
							1,4-Naphthoquinone	5 ppm
							1-Chloronaphthalene	5 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							7,12-Dimethylbenz(a)anthracene	5 ppm
							Chlorobenzilate	5 ppm
							Dinoseb	5 ppm
							Ethyl methanesulfonate	5 ppm
							Hexachloropropene	5 ppm
							Isodrin	5 ppm
							Isosafrole Peak 1	0.8 ppm
							Isosafrole Peak 2	4.2 ppm
							Methyl methanesulfonate	5 ppm
							Pentachlorobenzene	5 ppm
							3-Methylcholanthrene	5 ppm
							6-Methylchrysene	5 ppm
							cis-Diallate	3.7 ppm
							Dimethoate	5 ppm
							Disulfoton	5 ppm
							Ethyl Parathion	5 ppm
							Methyl parathion	5 ppm
							o,o',o''-Triethylphosphorothioate	5 ppm
							Phorate	5 ppm
							Safrole, Total	5 ppm
							Sulfotepp	5 ppm
							Thionazin	5 ppm
							trans-Diallate	1.3 ppm
					MSS_8270_WS_00009	40 uL	2,4,6-Tribromophenol (Surr)	10 ppm
							2-Fluorobiphenyl (Surr)	10 ppm
							2-Fluorophenol (Surr)	10 ppm
							Nitrobenzene-d5 (Surr)	10 ppm
							p-Terphenyl-d14 (Surr)	10 ppm
							Phenol-d5 (Surr)	10 ppm
							Dibenz[a,j]acridine	5 ppm
							1,1'-Biphenyl	5 ppm
							1,2,4,5-Tetrachlorobenzene	5 ppm
							1,2,4-Trichlorobenzene	5 ppm
							1,2-Dichlorobenzene	5 ppm
							1,2-Diphenylhydrazine	5 ppm
							1,3-Dichlorobenzene	5 ppm
							1,3-Dinitrobenzene	5 ppm
							1,4-Dichlorobenzene	5 ppm
							1,4-Dioxane	5 ppm
							1-Methylnaphthalene	5 ppm
							2,2'-oxybis[1-chloropropane]	5 ppm
							2,3,4,6-Tetrachlorophenol	5 ppm
							2,4,5-Trichlorophenol	5 ppm
							2,4,6-Trichlorophenol	5 ppm
							2,4-Dichlorophenol	5 ppm
							2,4-Dimethylphenol	5 ppm
							2,4-Dinitrophenol	20 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrotoluene	5 ppm
							2,6-Dichlorophenol	5 ppm
							2,6-Dinitrotoluene	5 ppm
							2-Chloronaphthalene	5 ppm
							2-Chlorophenol	5 ppm
							2-Methylnaphthalene	5 ppm
							2-Methylphenol	5 ppm
							2-Nitroaniline	5 ppm
							2-Nitrophenol	5 ppm
							3-Nitroaniline	5 ppm
							4,6-Dinitro-2-methylphenol	15 ppm
							4-Bromophenyl phenyl ether	5 ppm
							4-Chloro-3-methylphenol	5 ppm
							4-Chloroaniline	5 ppm
							4-Chlorophenyl phenyl ether	5 ppm
							4-Methylphenol	5 ppm
							4-Nitroaniline	5 ppm
							4-Nitrophenol	15 ppm
							Acenaphthene	5 ppm
							Acenaphthylene	5 ppm
							Acetophenone	5 ppm
							Aniline	5 ppm
							Anthracene	5 ppm
							Benzo[a]anthracene	5 ppm
							Benzo[a]pyrene	5 ppm
							Benzo[b]fluoranthene	5 ppm
							Benzo[g,h,i]perylene	5 ppm
							Benzo[k]fluoranthene	5 ppm
							Benzyl alcohol	5 ppm
							Bis(2-chloroethoxy)methane	5 ppm
							Bis(2-chloroethyl)ether	5 ppm
							Bis(2-ethylhexyl) phthalate	5 ppm
							Butylbenzylphthalate	5 ppm
							Carbazole	5 ppm
							Chrysene	5 ppm
							Di-n-butyl phthalate	5 ppm
							Di-n-octyl phthalate	5 ppm
							Dibenz(a,h)anthracene	5 ppm
							Dibenzofuran	5 ppm
							Diethylphthalate	5 ppm
							Dimethylphthalate	5 ppm
							Fluoranthene	5 ppm
							Fluorene	5 ppm
							Hexachlorobenzene	5 ppm
							Hexachlorobutadiene	5 ppm
							Hexachlorocyclopentadiene	5 ppm
							Hexachloroethane	5 ppm
							Indeno[1,2,3-cd]pyrene	5 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isophorone	5 ppm
							N-Nitrosodi-n-propylamine	5 ppm
							N-Nitrosodimethylamine	5 ppm
							N-Nitrosodiphenylamine	4.25 ppm
							Naphthalene	5 ppm
							Nitrobenzene	5 ppm
							Pentachlorophenol	10 ppm
							Phenanthrene	5 ppm
							Phenol	5 ppm
							Pyrene	5 ppm
							Pyridine	10 ppm
							3,3'-Dichlorobenzidine	5 ppm
							Benzidine	15 ppm
							Alpha-Terpineol	5 ppm
							Dimethylformamide	5 ppm
							Octachlorostyrene	5 ppm
							Phenyl ether	5 ppm
					MSS_AB_24DNP_00006	20 uL	2,4-Dinitrophenol	20 ppm
					MSS_AB_46D2MP_00004	10 uL	4,6-Dinitro-2-methylphenol	15 ppm
					MSS_AB_4NP_00003	10 uL	4-Nitrophenol	15 ppm
					MSS_FV8270_IS_00005	40 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
..MSS_8270_APWS_00006	03/31/22	11/10/21	MeCl2, Lot 216834	10 mL	MSS_AB_BZIDIN_00007	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00004	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm
							2-Acetylaminofluorene	250 ppm
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00006	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00004	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00005	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm
							trans-Diallate	65 ppm
...MSS_AB_BZIDIN_00007	01/29/23		Absolute, Lot 012920		(Purchased Reagent)		Benzidine	5000 ug/mL
...OP_RES_APPX1_00004	05/31/22		Restek, Lot A0172197		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
...OP_RES_APPX2_00006	03/31/22		Restek, Lot A0169617		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
...OP_RES_APPX3_00004	03/31/22		Restek, Lot A0170153		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
...OP_RES_APPX4_00005	01/31/23		Restek, Lot A0168635		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL
							trans-Diallate	260 ug/mL
..MSS_8270_WS_00009	05/10/22	11/10/21	MeCl2, Lot 216834	10 mL	MSS_8270_SURR_00004	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_RES_APPX6_00002	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00007	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butylbenzylphthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethylphthalate	250 ppm
							Dimethylphthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00005	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
					OP_RES_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm
...MSS_8270_SURR_00004	10/31/23		Sigma- Aldrich, Lot LRAC8467		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
...OP_RES_APPX6_00002	12/31/23		Restek, Lot A0167365		(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
...OP_RES_LCS1_00007	02/28/23		Restek, Lot A0175066		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...OP_RES_LCS2_00005	07/31/22		Restek, Lot A0168211		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
...OP_RES_LCSadd_00001	12/31/23		Restek, Lot A0166837		(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
..MSS_AB_24DNP_00006	09/05/23		Absolute, Lot 090518		(Purchased Reagent)		2,4-Dinitrophenol	1000 ug/mL
..MSS_AB_46D2MP_00004	11/19/24		Absolute, Lot 111924		(Purchased Reagent)		4,6-Dinitro-2-methylphenol	1000 ug/mL
..MSS_AB_4NP_00003	07/24/23		Absolute, Lot 072418		(Purchased Reagent)		4-Nitrophenol	1000 ug/mL
..MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_4_00018	03/20/22	11/11/21	MeCl2, Lot 216834	3 mL	MSS_BAS_WS_00004	112.5 uL	Atrazine	3.75 ppm
							Benzaldehyde	3.75 ppm
							Caprolactam	3.75 ppm
					MSS_FV8270_4_00019	750 uL	Benzidine	11.25 ppm
							1,3,5-Trinitrobenzene	3.75 ppm
							1,4-Dinitrobenzene	3.75 ppm
							1-Naphthylamine	3.75 ppm
							2-Acetylaminofluorene	3.75 ppm
							2-Naphthylamine	3.75 ppm
							2-Picoline	3.75 ppm
							2-Toluidine	3.75 ppm
							3,3'-Dimethylbenzidine	3.75 ppm
							4,4'-Methylene bis(2-chloroaniline)	3.75 ppm
							4-Aminobiphenyl	3.75 ppm
							4-Nitroquinoline-1-oxide	3.75 ppm
							Dibenz[a,h]acridine	3.75 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitro-o-toluidine	3.75 ppm
							N-Nitrosodi-n-butylamine	3.75 ppm
							N-Nitrosodiethylamine	3.75 ppm
							N-Nitrosomethylethylamine	3.75 ppm
							N-Nitrosomorpholine	3.75 ppm
							N-Nitrosopiperidine	3.75 ppm
							N-Nitrosopyrrolidine	3.75 ppm
							p-Dimethylamino azobenzene	3.75 ppm
							p-Phenylene diamine	3.75 ppm
							Pentachloronitrobenzene	3.75 ppm
							Phenacetin	3.75 ppm
							Pronamide	3.75 ppm
							Quinoline	3.75 ppm
							1,4-Naphthoquinone	3.75 ppm
							1-Chloronaphthalene	3.75 ppm
							7,12-Dimethylbenz(a)anthracene	3.75 ppm
							Chlorobenzilate	3.75 ppm
							Dinoseb	3.75 ppm
							Ethyl methanesulfonate	3.75 ppm
							Hexachloropropene	3.75 ppm
							Isodrin	3.75 ppm
							Isosafrole Peak 1	0.6 ppm
							Isosafrole Peak 2	3.15 ppm
							Methyl methanesulfonate	3.75 ppm
							Pentachlorobenzene	3.75 ppm
							3-Methylcholanthrene	3.75 ppm
							6-Methylchrysene	3.75 ppm
							cis-Diallate	2.775 ppm
							Dimethoate	3.75 ppm
							Disulfoton	3.75 ppm
							Ethyl Parathion	3.75 ppm
							Methyl parathion	3.75 ppm
							o,o',o''-Triethylphosphorothioate	3.75 ppm
							Phorate	3.75 ppm
							Safrole, Total	3.75 ppm
							Sulfotepp	3.75 ppm
							Thionazin	3.75 ppm
							trans-Diallate	0.975 ppm
							2,4,6-Tribromophenol (Surr)	7.5 ppm
							2-Fluorobiphenyl (Surr)	7.5 ppm
							2-Fluorophenol (Surr)	7.5 ppm
							Nitrobenzene-d5 (Surr)	7.5 ppm
							p-Terphenyl-d14 (Surr)	7.5 ppm
							Phenol-d5 (Surr)	7.5 ppm
							Dibenz[a,j]acridine	3.75 ppm
							1,1'-Biphenyl	3.75 ppm
							1,2,4,5-Tetrachlorobenzene	3.75 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	3.75 ppm
							1,2-Dichlorobenzene	3.75 ppm
							1,2-Diphenylhydrazine	3.75 ppm
							1,3-Dichlorobenzene	3.75 ppm
							1,3-Dinitrobenzene	3.75 ppm
							1,4-Dichlorobenzene	3.75 ppm
							1,4-Dioxane	3.75 ppm
							1-Methylnaphthalene	3.75 ppm
							2,2'-oxybis[1-chloropropane]	3.75 ppm
							2,3,4,6-Tetrachlorophenol	3.75 ppm
							2,4,5-Trichlorophenol	3.75 ppm
							2,4,6-Trichlorophenol	3.75 ppm
							2,4-Dichlorophenol	3.75 ppm
							2,4-Dimethylphenol	3.75 ppm
							2,4-Dinitrophenol	11.25 ppm
							2,4-Dinitrotoluene	3.75 ppm
							2,6-Dichlorophenol	3.75 ppm
							2,6-Dinitrotoluene	3.75 ppm
							2-Chloronaphthalene	3.75 ppm
							2-Chlorophenol	3.75 ppm
							2-Methylnaphthalene	3.75 ppm
							2-Methylphenol	3.75 ppm
							2-Nitroaniline	3.75 ppm
							2-Nitrophenol	3.75 ppm
							3-Nitroaniline	3.75 ppm
							4,6-Dinitro-2-methylphenol	7.5 ppm
							4-Bromophenyl phenyl ether	3.75 ppm
							4-Chloro-3-methylphenol	3.75 ppm
							4-Chloroaniline	3.75 ppm
							4-Chlorophenyl phenyl ether	3.75 ppm
							4-Methylphenol	3.75 ppm
							4-Nitroaniline	3.75 ppm
							4-Nitrophenol	7.5 ppm
							Acenaphthene	3.75 ppm
							Acenaphthylene	3.75 ppm
							Acetophenone	3.75 ppm
							Aniline	3.75 ppm
							Anthracene	3.75 ppm
							Benzo[a]anthracene	3.75 ppm
							Benzo[a]pyrene	3.75 ppm
							Benzo[b]fluoranthene	3.75 ppm
							Benzo[g,h,i]perylene	3.75 ppm
							Benzo[k]fluoranthene	3.75 ppm
							Benzyl alcohol	3.75 ppm
							Bis(2-chloroethoxy)methane	3.75 ppm
							Bis(2-chloroethyl)ether	3.75 ppm
							Bis(2-ethylhexyl) phthalate	3.75 ppm
							Butylbenzylphthalate	3.75 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbazole	3.75 ppm
							Chrysene	3.75 ppm
							Di-n-butyl phthalate	3.75 ppm
							Di-n-octyl phthalate	3.75 ppm
							Dibenz(a,h)anthracene	3.75 ppm
							Dibenzofuran	3.75 ppm
							Diethylphthalate	3.75 ppm
							Dimethylphthalate	3.75 ppm
							Fluoranthene	3.75 ppm
							Fluorene	3.75 ppm
							Hexachlorobenzene	3.75 ppm
							Hexachlorobutadiene	3.75 ppm
							Hexachlorocyclopentadiene	3.75 ppm
							Hexachloroethane	3.75 ppm
							Indeno[1,2,3-cd]pyrene	3.75 ppm
							Isophorone	3.75 ppm
							N-Nitrosodi-n-propylamine	3.75 ppm
							N-Nitrosodimethylamine	3.75 ppm
							N-Nitrosodiphenylamine	3.1875 ppm
							Naphthalene	3.75 ppm
							Nitrobenzene	3.75 ppm
							Pentachlorophenol	7.5 ppm
							Phenanthrene	3.75 ppm
							Phenol	3.75 ppm
							Pyrene	3.75 ppm
							Pyridine	7.5 ppm
							3,3'-Dichlorobenzidine	3.75 ppm
							Alpha-Terpineol	3.75 ppm
							Dimethylformamide	3.75 ppm
							Octachlorostyrene	3.75 ppm
							Phenyl ether	3.75 ppm
							1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_BAS_WS_00004	03/20/22	09/20/21	MeCl2, Lot 214668	5 mL	OP_LCSmix2stk_00002	250 uL	Atrazine	100 ppm
							Benzaldehyde	100 ppm
							Caprolactam	100 ppm
..OP_LCSmix2stk_00002	03/31/22		Restek, Lot A0164387		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.MSS_FV8270_4_00019	03/31/22	11/11/21	MeCl2, Lot 216834	2 mL	MSS_8270_APWS_00006	120 uL	Benzidine	45 ppm
							1,3,5-Trinitrobenzene	15 ppm
							1,4-Dinitrobenzene	15 ppm
							1-Naphthylamine	15 ppm
							2-Acetylaminofluorene	15 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Naphthylamine	15 ppm
							2-Picoline	15 ppm
							2-Toluidine	15 ppm
							3,3'-Dimethylbenzidine	15 ppm
							4,4'-Methylene bis(2-chloroaniline)	15 ppm
							4-Aminobiphenyl	15 ppm
							4-Nitroquinoline-1-oxide	15 ppm
							Dibenz[a,h]acridine	15 ppm
							N-Nitro-o-toluidine	15 ppm
							N-Nitrosodi-n-butylamine	15 ppm
							N-Nitrosodiethylamine	15 ppm
							N-Nitrosomethylethylamine	15 ppm
							N-Nitrosomorpholine	15 ppm
							N-Nitrosopiperidine	15 ppm
							N-Nitrosopyrrolidine	15 ppm
							p-Dimethylamino azobenzene	15 ppm
							p-Phenylene diamine	15 ppm
							Pentachloronitrobenzene	15 ppm
							Phenacetin	15 ppm
							Pronamide	15 ppm
							Quinoline	15 ppm
							1,4-Naphthoquinone	15 ppm
							1-Chloronaphthalene	15 ppm
							7,12-Dimethylbenz(a)anthracene	15 ppm
							Chlorobenzilate	15 ppm
							Dinoseb	15 ppm
							Ethyl methanesulfonate	15 ppm
							Hexachloropropene	15 ppm
							Isodrin	15 ppm
							Isosafrole Peak 1	2.4 ppm
							Isosafrole Peak 2	12.6 ppm
							Methyl methanesulfonate	15 ppm
							Pentachlorobenzene	15 ppm
							3-Methylcholanthrene	15 ppm
							6-Methylchrysene	15 ppm
							cis-Diallate	11.1 ppm
							Dimethoate	15 ppm
							Disulfoton	15 ppm
							Ethyl Parathion	15 ppm
							Methyl parathion	15 ppm
							o,o',o''-Triethylphosphorothioate	15 ppm
							Phorate	15 ppm
							Safrole, Total	15 ppm
							Sulfotepp	15 ppm
							Thionazin	15 ppm
							trans-Diallate	3.9 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSS_8270_WS_00009	120 uL	2,4,6-Tribromophenol (Surr)	30 ppm
							2-Fluorobiphenyl (Surr)	30 ppm
							2-Fluorophenol (Surr)	30 ppm
							Nitrobenzene-d5 (Surr)	30 ppm
							p-Terphenyl-d14 (Surr)	30 ppm
							Phenol-d5 (Surr)	30 ppm
							Dibenz[a,j]acridine	15 ppm
							1,1'-Biphenyl	15 ppm
							1,2,4,5-Tetrachlorobenzene	15 ppm
							1,2,4-Trichlorobenzene	15 ppm
							1,2-Dichlorobenzene	15 ppm
							1,2-Diphenylhydrazine	15 ppm
							1,3-Dichlorobenzene	15 ppm
							1,3-Dinitrobenzene	15 ppm
							1,4-Dichlorobenzene	15 ppm
							1,4-Dioxane	15 ppm
							1-Methylnaphthalene	15 ppm
							2,2'-oxybis[1-chloropropane]	15 ppm
							2,3,4,6-Tetrachlorophenol	15 ppm
							2,4,5-Trichlorophenol	15 ppm
							2,4,6-Trichlorophenol	15 ppm
							2,4-Dichlorophenol	15 ppm
							2,4-Dimethylphenol	15 ppm
							2,4-Dinitrophenol	45 ppm
							2,4-Dinitrotoluene	15 ppm
							2,6-Dichlorophenol	15 ppm
							2,6-Dinitrotoluene	15 ppm
							2-Chloronaphthalene	15 ppm
							2-Chlorophenol	15 ppm
							2-Methylnaphthalene	15 ppm
							2-Methylphenol	15 ppm
							2-Nitroaniline	15 ppm
							2-Nitrophenol	15 ppm
							3-Nitroaniline	15 ppm
							4,6-Dinitro-2-methylphenol	30 ppm
							4-Bromophenyl phenyl ether	15 ppm
							4-Chloro-3-methylphenol	15 ppm
							4-Chloroaniline	15 ppm
							4-Chlorophenyl phenyl ether	15 ppm
							4-Methylphenol	15 ppm
							4-Nitroaniline	15 ppm
							4-Nitrophenol	30 ppm
							Acenaphthene	15 ppm
							Acenaphthylene	15 ppm
							Acetophenone	15 ppm
							Aniline	15 ppm
							Anthracene	15 ppm
							Benzo[a]anthracene	15 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]pyrene	15 ppm
							Benzo[b]fluoranthene	15 ppm
							Benzo[g,h,i]perylene	15 ppm
							Benzo[k]fluoranthene	15 ppm
							Benzyl alcohol	15 ppm
							Bis(2-chloroethoxy)methane	15 ppm
							Bis(2-chloroethyl)ether	15 ppm
							Bis(2-ethylhexyl) phthalate	15 ppm
							Butylbenzylphthalate	15 ppm
							Carbazole	15 ppm
							Chrysene	15 ppm
							Di-n-butyl phthalate	15 ppm
							Di-n-octyl phthalate	15 ppm
							Dibenz(a,h)anthracene	15 ppm
							Dibenzofuran	15 ppm
							Diethylphthalate	15 ppm
							Dimethylphthalate	15 ppm
							Fluoranthene	15 ppm
							Fluorene	15 ppm
							Hexachlorobenzene	15 ppm
							Hexachlorobutadiene	15 ppm
							Hexachlorocyclopentadiene	15 ppm
							Hexachloroethane	15 ppm
							Indeno[1,2,3-cd]pyrene	15 ppm
							Isophorone	15 ppm
							N-Nitrosodi-n-propylamine	15 ppm
							N-Nitrosodimethylamine	15 ppm
							N-Nitrosodiphenylamine	12.75 ppm
							Naphthalene	15 ppm
							Nitrobenzene	15 ppm
							Pentachlorophenol	30 ppm
							Phenanthrene	15 ppm
							Phenol	15 ppm
							Pyrene	15 ppm
							Pyridine	30 ppm
							3,3'-Dichlorobenzidine	15 ppm
							Benzidine	45 ppm
							Alpha-Terpineol	15 ppm
							Dimethylformamide	15 ppm
							Octachlorostyrene	15 ppm
							Phenyl ether	15 ppm
					MSS_AB_24DNP_00006	30 uL	2,4-Dinitrophenol	45 ppm
					MSS_FV8270_IS_00005	40 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MSS_8270_APWS_00006	03/31/22	11/10/21	MeCl2, Lot 216834	10 mL	MSS_AB_BZIDIN_00007	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00004	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm
							2-Acetylaminofluorene	250 ppm
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00006	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00004	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00005	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm
							trans-Diallate	65 ppm
...MSS_AB_BZIDIN_00007	01/29/23		Absolute, Lot 012920		(Purchased Reagent)		Benzidine	5000 ug/mL
...OP_RES_APPX1_00004	05/31/22		Restek, Lot A0172197		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
...OP_RES_APPX2_00006	03/31/22		Restek, Lot A0169617		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
...OP_RES_APPX3_00004	03/31/22		Restek, Lot A0170153		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
...OP_RES_APPX4_00005	01/31/23		Restek, Lot A0168635		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL
							trans-Diallate	260 ug/mL
..MSS_8270_WS_00009	05/10/22	11/10/21	MeCl2, Lot 216834	10 mL	MSS_8270_SURR_00004	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_RES_APPX6_00002	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00007	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butylbenzylphthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethylphthalate	250 ppm
							Dimethylphthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00005	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
					OP_RES_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm
...MSS_8270_SURR_00004	10/31/23	Sigma- Aldrich, Lot LRAC8467			(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
...OP_RES_APPX6_00002	12/31/23	Restek, Lot A0167365			(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
...OP_RES_LCS1_00007	02/28/23	Restek, Lot A0175066			(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...OP_RES_LCS2_00005	07/31/22		Restek, Lot A0168211		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
...OP_RES_LCSadd_00001	12/31/23		Restek, Lot A0166837		(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
..MSS_AB_24DNP_00006	09/05/23		Absolute, Lot 090518		(Purchased Reagent)		2,4-Dinitrophenol	1000 ug/mL
..MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_5_00025	03/20/22	11/11/21	MeCl2, Lot 216834	3 mL	MSS_BAS_WS_00004	225 uL	Atrazine	7.5 ppm
							Benzaldehyde	7.5 ppm
							Caprolactam	7.5 ppm
					MSS_FV8270_5_00024	750 uL	Benzidine	22.5 ppm
							1,3,5-Trinitrobenzene	7.5 ppm
							1,4-Dinitrobenzene	7.5 ppm
							1-Naphthylamine	7.5 ppm
							2-Acetylaminofluorene	7.5 ppm
							2-Naphthylamine	7.5 ppm
							2-Picoline	7.5 ppm
							2-Toluidine	7.5 ppm
							3,3'-Dimethylbenzidine	7.5 ppm
							4,4'-Methylene bis(2-chloroaniline)	7.5 ppm
							4-Aminobiphenyl	7.5 ppm
							4-Nitroquinoline-1-oxide	7.5 ppm
							Dibenz[a,h]acridine	7.5 ppm
							N-Nitro-o-toluidine	7.5 ppm
							N-Nitrosodi-n-butylamine	7.5 ppm
							N-Nitrosodiethylamine	7.5 ppm
							N-Nitrosomethylethylamine	7.5 ppm
							N-Nitrosomorpholine	7.5 ppm
							N-Nitrosopiperidine	7.5 ppm
							N-Nitrosopyrrolidine	7.5 ppm
							p-Dimethylamino azobenzene	7.5 ppm
							p-Phenylene diamine	7.5 ppm
							Pentachloronitrobenzene	7.5 ppm
							Phenacetin	7.5 ppm
							Pronamide	7.5 ppm
							Quinoline	7.5 ppm
							1,4-Naphthoquinone	7.5 ppm
							1-Chloronaphthalene	7.5 ppm
							7,12-Dimethylbenz(a)anthracene	7.5 ppm
							Chlorobenzilate	7.5 ppm
							Dinoseb	7.5 ppm
							Ethyl methanesulfonate	7.5 ppm
							Hexachloropropene	7.5 ppm
							Isodrin	7.5 ppm
							Isosafrole Peak 1	1.2 ppm
							Isosafrole Peak 2	6.3 ppm
							Methyl methanesulfonate	7.5 ppm
							Pentachlorobenzene	7.5 ppm
							3-Methylcholanthrene	7.5 ppm
							6-Methylchrysene	7.5 ppm
							cis-Diallate	5.55 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dimethoate	7.5 ppm
							Disulfoton	7.5 ppm
							Ethyl Parathion	7.5 ppm
							Methyl parathion	7.5 ppm
							o,o',o''-Triethylphosphorothioate	7.5 ppm
							Phorate	7.5 ppm
							Safrole, Total	7.5 ppm
							Sulfotepp	7.5 ppm
							Thionazin	7.5 ppm
							trans-Diallate	1.95 ppm
							2,4,6-Tribromophenol (Surr)	15 ppm
							2-Fluorobiphenyl (Surr)	15 ppm
							2-Fluorophenol (Surr)	15 ppm
							Nitrobenzene-d5 (Surr)	15 ppm
							p-Terphenyl-d14 (Surr)	15 ppm
							Phenol-d5 (Surr)	15 ppm
							Dibenz[a,j]acridine	7.5 ppm
							1,1'-Biphenyl	7.5 ppm
							1,2,4,5-Tetrachlorobenzene	7.5 ppm
							1,2,4-Trichlorobenzene	7.5 ppm
							1,2-Dichlorobenzene	7.5 ppm
							1,2-Diphenylhydrazine	7.5 ppm
							1,3-Dichlorobenzene	7.5 ppm
							1,3-Dinitrobenzene	7.5 ppm
							1,4-Dichlorobenzene	7.5 ppm
							1,4-Dioxane	7.5 ppm
							1-Methylnaphthalene	7.5 ppm
							2,2'-oxybis[1-chloropropane]	7.5 ppm
							2,3,4,6-Tetrachlorophenol	7.5 ppm
							2,4,5-Trichlorophenol	7.5 ppm
							2,4,6-Trichlorophenol	7.5 ppm
							2,4-Dichlorophenol	7.5 ppm
							2,4-Dimethylphenol	7.5 ppm
							2,4-Dinitrophenol	17.5 ppm
							2,4-Dinitrotoluene	7.5 ppm
							2,6-Dichlorophenol	7.5 ppm
							2,6-Dinitrotoluene	7.5 ppm
							2-Chloronaphthalene	7.5 ppm
							2-Chlorophenol	7.5 ppm
							2-Methylnaphthalene	7.5 ppm
							2-Methylphenol	7.5 ppm
							2-Nitroaniline	7.5 ppm
							2-Nitrophenol	7.5 ppm
							3-Nitroaniline	7.5 ppm
							4,6-Dinitro-2-methylphenol	15 ppm
							4-Bromophenyl phenyl ether	7.5 ppm
							4-Chloro-3-methylphenol	7.5 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloroaniline	7.5 ppm
							4-Chlorophenyl phenyl ether	7.5 ppm
							4-Methylphenol	7.5 ppm
							4-Nitroaniline	7.5 ppm
							4-Nitrophenol	15 ppm
							Acenaphthene	7.5 ppm
							Acenaphthylene	7.5 ppm
							Acetophenone	7.5 ppm
							Aniline	7.5 ppm
							Anthracene	7.5 ppm
							Benzo[a]anthracene	7.5 ppm
							Benzo[a]pyrene	7.5 ppm
							Benzo[b]fluoranthene	7.5 ppm
							Benzo[g,h,i]perylene	7.5 ppm
							Benzo[k]fluoranthene	7.5 ppm
							Benzyl alcohol	7.5 ppm
							Bis(2-chloroethoxy)methane	7.5 ppm
							Bis(2-chloroethyl)ether	7.5 ppm
							Bis(2-ethylhexyl) phthalate	7.5 ppm
							Butylbenzylphthalate	7.5 ppm
							Carbazole	7.5 ppm
							Chrysene	7.5 ppm
							Di-n-butyl phthalate	7.5 ppm
							Di-n-octyl phthalate	7.5 ppm
							Dibenz(a,h)anthracene	7.5 ppm
							Dibenzofuran	7.5 ppm
							Diethylphthalate	7.5 ppm
							Dimethylphthalate	7.5 ppm
							Fluoranthene	7.5 ppm
							Fluorene	7.5 ppm
							Hexachlorobenzene	7.5 ppm
							Hexachlorobutadiene	7.5 ppm
							Hexachlorocyclopentadiene	7.5 ppm
							Hexachloroethane	7.5 ppm
							Indeno[1,2,3-cd]pyrene	7.5 ppm
							Isophorone	7.5 ppm
							N-Nitrosodi-n-propylamine	7.5 ppm
							N-Nitrosodimethylamine	7.5 ppm
							N-Nitrosodiphenylamine	6.375 ppm
							Naphthalene	7.5 ppm
							Nitrobenzene	7.5 ppm
							Pentachlorophenol	15 ppm
							Phenanthrene	7.5 ppm
							Phenol	7.5 ppm
							Pyrene	7.5 ppm
							Pyridine	15 ppm
							3,3'-Dichlorobenzidine	7.5 ppm
							Alpha-Terpineol	7.5 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dimethylformamide	7.5 ppm
							Octachlorostyrene	7.5 ppm
							Phenyl ether	7.5 ppm
							1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_BAS_WS_00004	03/20/22	09/20/21	MeCl2, Lot 214668	5 mL	OP_LCSmix2stk_00002	250 uL	Atrazine	100 ppm
							Benzaldehyde	100 ppm
							Caprolactam	100 ppm
..OP_LCSmix2stk_00002	03/31/22		Restek, Lot A0164387		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.MSS_FV8270_5_00024	03/31/22	11/11/21	MeCl2, Lot 216834	5 mL	MSS_8270_APWS_00006	600 uL	Benzidine	90 ppm
							1,3,5-Trinitrobenzene	30 ppm
							1,4-Dinitrobenzene	30 ppm
							1-Naphthylamine	30 ppm
							2-Acetylaminofluorene	30 ppm
							2-Naphthylamine	30 ppm
							2-Picoline	30 ppm
							2-Toluidine	30 ppm
							3,3'-Dimethylbenzidine	30 ppm
							4,4'-Methylene bis(2-chloroaniline)	30 ppm
							4-Aminobiphenyl	30 ppm
							4-Nitroquinoline-1-oxide	30 ppm
							Dibenz[a,h]acridine	30 ppm
							N-Nitro-o-toluidine	30 ppm
							N-Nitrosodi-n-butylamine	30 ppm
							N-Nitrosodiethylamine	30 ppm
							N-Nitrosomethylethylamine	30 ppm
							N-Nitrosomorpholine	30 ppm
							N-Nitrosopiperidine	30 ppm
							N-Nitrosopyrrolidine	30 ppm
							p-Dimethylamino azobenzene	30 ppm
							p-Phenylene diamine	30 ppm
							Pentachloronitrobenzene	30 ppm
							Phenacetin	30 ppm
							Pronamide	30 ppm
							Quinoline	30 ppm
							1,4-Naphthoquinone	30 ppm
							1-Chloronaphthalene	30 ppm
							7,12-Dimethylbenz(a)anthracene	30 ppm
							Chlorobenzilate	30 ppm
							Dinoseb	30 ppm
							Ethyl methanesulfonate	30 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloropropene	30 ppm
							Isodrin	30 ppm
							Isosafrole Peak 1	4.8 ppm
							Isosafrole Peak 2	25.2 ppm
							Methyl methanesulfonate	30 ppm
							Pentachlorobenzene	30 ppm
							3-Methylcholanthrene	30 ppm
							6-Methylchrysene	30 ppm
							cis-Diallate	22.2 ppm
							Dimethoate	30 ppm
							Disulfoton	30 ppm
							Ethyl Parathion	30 ppm
							Methyl parathion	30 ppm
							o,o',o''-Triethylphosphorothioate	30 ppm
							Phorate	30 ppm
							Safrole, Total	30 ppm
							Sulfotepp	30 ppm
							Thionazin	30 ppm
							trans-Diallate	7.8 ppm
					MSS_8270_WS_00009	600 uL	2,4,6-Tribromophenol (Surr)	60 ppm
							2-Fluorobiphenyl (Surr)	60 ppm
							2-Fluorophenol (Surr)	60 ppm
							Nitrobenzene-d5 (Surr)	60 ppm
							p-Terphenyl-d14 (Surr)	60 ppm
							Phenol-d5 (Surr)	60 ppm
							Dibenz[a,j]acridine	30 ppm
							1,1'-Biphenyl	30 ppm
							1,2,4,5-Tetrachlorobenzene	30 ppm
							1,2,4-Trichlorobenzene	30 ppm
							1,2-Dichlorobenzene	30 ppm
							1,2-Diphenylhydrazine	30 ppm
							1,3-Dichlorobenzene	30 ppm
							1,3-Dinitrobenzene	30 ppm
							1,4-Dichlorobenzene	30 ppm
							1,4-Dioxane	30 ppm
							1-Methylnaphthalene	30 ppm
							2,2'-oxybis[1-chloropropane]	30 ppm
							2,3,4,6-Tetrachlorophenol	30 ppm
							2,4,5-Trichlorophenol	30 ppm
							2,4,6-Trichlorophenol	30 ppm
							2,4-Dichlorophenol	30 ppm
							2,4-Dimethylphenol	30 ppm
							2,4-Dinitrophenol	70 ppm
							2,4-Dinitrotoluene	30 ppm
							2,6-Dichlorophenol	30 ppm
							2,6-Dinitrotoluene	30 ppm
							2-Chloronaphthalene	30 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorophenol	30 ppm
							2-Methylnaphthalene	30 ppm
							2-Methylphenol	30 ppm
							2-Nitroaniline	30 ppm
							2-Nitrophenol	30 ppm
							3-Nitroaniline	30 ppm
							4,6-Dinitro-2-methylphenol	60 ppm
							4-Bromophenyl phenyl ether	30 ppm
							4-Chloro-3-methylphenol	30 ppm
							4-Chloroaniline	30 ppm
							4-Chlorophenyl phenyl ether	30 ppm
							4-Methylphenol	30 ppm
							4-Nitroaniline	30 ppm
							4-Nitrophenol	60 ppm
							Acenaphthene	30 ppm
							Acenaphthylene	30 ppm
							Acetophenone	30 ppm
							Aniline	30 ppm
							Anthracene	30 ppm
							Benzo[a]anthracene	30 ppm
							Benzo[a]pyrene	30 ppm
							Benzo[b]fluoranthene	30 ppm
							Benzo[g,h,i]perylene	30 ppm
							Benzo[k]fluoranthene	30 ppm
							Benzyl alcohol	30 ppm
							Bis(2-chloroethoxy)methane	30 ppm
							Bis(2-chloroethyl)ether	30 ppm
							Bis(2-ethylhexyl) phthalate	30 ppm
							Butylbenzylphthalate	30 ppm
							Carbazole	30 ppm
							Chrysene	30 ppm
							Di-n-butyl phthalate	30 ppm
							Di-n-octyl phthalate	30 ppm
							Dibenz(a,h)anthracene	30 ppm
							Dibenzofuran	30 ppm
							Diethylphthalate	30 ppm
							Dimethylphthalate	30 ppm
							Fluoranthene	30 ppm
							Fluorene	30 ppm
							Hexachlorobenzene	30 ppm
							Hexachlorobutadiene	30 ppm
							Hexachlorocyclopentadiene	30 ppm
							Hexachloroethane	30 ppm
							Indeno[1,2,3-cd]pyrene	30 ppm
							Isophorone	30 ppm
							N-Nitrosodi-n-propylamine	30 ppm
							N-Nitrosodimethylamine	30 ppm
							N-Nitrosodiphenylamine	25.5 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	30 ppm
							Nitrobenzene	30 ppm
							Pentachlorophenol	60 ppm
							Phenanthrene	30 ppm
							Phenol	30 ppm
							Pyrene	30 ppm
							Pyridine	60 ppm
							3,3'-Dichlorobenzidine	30 ppm
							Benzidine	90 ppm
							Alpha-Terpineol	30 ppm
							Dimethylformamide	30 ppm
							Octachlorostyrene	30 ppm
							Phenyl ether	30 ppm
					MSS_AB_24DNP_00006	50 uL	2,4-Dinitrophenol	70 ppm
					MSS_FV8270_IS_00005	100 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
..MSS_8270_APWS_00006	03/31/22	11/10/21	MeCl2, Lot 216834	10 mL	MSS_AB_BZIDIN_00007	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00004	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm
							2-Acetylaminofluorene	250 ppm
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00006	2500 uL	1,4-Naphthoquinone	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1-Chloronaphthalene	250 ppm
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00004	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00005	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm
							trans-Diallate	65 ppm
...MSS_AB_BZIDIN_00007	01/29/23		Absolute, Lot 012920		(Purchased Reagent)		Benzidine	5000 ug/mL
...OP_RES_APPX1_00004	05/31/22		Restek, Lot A0172197		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pentachloronitrobenzene	1000 ug/mL
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
...OP_RES_APPX2_00006	03/31/22		Restek, Lot A0169617		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
...OP_RES_APPX3_00004	03/31/22		Restek, Lot A0170153		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
...OP_RES_APPX4_00005	01/31/23		Restek, Lot A0168635		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL
							trans-Diallate	260 ug/mL
..MSS_8270_WS_00009	05/10/22	11/10/21	MeCl2, Lot 216834	10 mL	MSS_8270_SURR_00004	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_RES_APPX6_00002	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00007	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,3,4,6-Tetrachlorophenol	250 ppm
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butylbenzylphthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethylphthalate	250 ppm
							Dimethylphthalate	250 ppm
							Fluoranthene	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	250 ppm
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00005	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
					OP_RES_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm
...MSS_8270_SURR_00004	10/31/23	Sigma- Aldrich, Lot LRAC8467			(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
...OP_RES_APPX6_00002	12/31/23	Restek, Lot A0167365			(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
...OP_RES_LCS1_00007	02/28/23	Restek, Lot A0175066			(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...OP_RES_LCS2_00005	07/31/22		Restek, Lot A0168211		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
...OP_RES_LCSadd_00001	12/31/23		Restek, Lot A0166837		(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
..MSS_AB_24DNP_00006	09/05/23		Absolute, Lot 090518		(Purchased Reagent)		2,4-Dinitrophenol	1000 ug/mL
..MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_6_00024	03/20/22	11/11/21	MeCl2, Lot 216834	5 mL	MSS_BAS_WS_00004	625 uL	Atrazine	12.5 ppm
							Benzaldehyde	12.5 ppm
							Caprolactam	12.5 ppm
					MSS_FV8270_6_00034	1250 uL	Benzidine	37.5 ppm
							1,3,5-Trinitrobenzene	12.5 ppm
							1,4-Dinitrobenzene	12.5 ppm
							1-Naphthylamine	12.5 ppm
							2-Acetylaminofluorene	12.5 ppm
							2-Naphthylamine	12.5 ppm
							2-Picoline	12.5 ppm
							2-Toluidine	12.5 ppm
							3,3'-Dimethylbenzidine	12.5 ppm
							4,4'-Methylene bis(2-chloroaniline)	12.5 ppm
							4-Aminobiphenyl	12.5 ppm
							4-Nitroquinoline-1-oxide	12.5 ppm
							Dibenz[a,h]acridine	12.5 ppm
							N-Nitro-o-toluidine	12.5 ppm
							N-Nitrosodi-n-butylamine	12.5 ppm
							N-Nitrosodiethylamine	12.5 ppm
							N-Nitrosomethylethylamine	12.5 ppm
							N-Nitrosomorpholine	12.5 ppm
							N-Nitrosopiperidine	12.5 ppm
							N-Nitrosopyrrolidine	12.5 ppm
							p-Dimethylamino azobenzene	12.5 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							p-Phenylene diamine	12.5 ppm
							Pentachloronitrobenzene	12.5 ppm
							Phenacetin	12.5 ppm
							Pronamide	12.5 ppm
							Quinoline	12.5 ppm
							1,4-Naphthoquinone	12.5 ppm
							1-Chloronaphthalene	12.5 ppm
							7,12-Dimethylbenz(a)anthracene	12.5 ppm
							Chlorobenzilate	12.5 ppm
							Dinoseb	12.5 ppm
							Ethyl methanesulfonate	12.5 ppm
							Hexachloropropene	12.5 ppm
							Isodrin	12.5 ppm
							Isosafrole Peak 1	2 ppm
							Isosafrole Peak 2	10.5 ppm
							Methyl methanesulfonate	12.5 ppm
							Pentachlorobenzene	12.5 ppm
							3-Methylcholanthrene	12.5 ppm
							6-Methylchrysene	12.5 ppm
							cis-Diallate	9.25 ppm
							Dimethoate	12.5 ppm
							Disulfoton	12.5 ppm
							Ethyl Parathion	12.5 ppm
							Methyl parathion	12.5 ppm
							o,o',o''-Triethylphosphorothioate	12.5 ppm
							Phorate	12.5 ppm
							Safrole, Total	12.5 ppm
							Sulfotepp	12.5 ppm
							Thionazin	12.5 ppm
							trans-Diallate	3.25 ppm
							2,4,6-Tribromophenol (Surr)	25 ppm
							2-Fluorobiphenyl (Surr)	25 ppm
							2-Fluorophenol (Surr)	25 ppm
							Nitrobenzene-d5 (Surr)	25 ppm
							p-Terphenyl-d14 (Surr)	25 ppm
							Phenol-d5 (Surr)	25 ppm
							Dibenz[a,j]acridine	12.5 ppm
							1,1'-Biphenyl	12.5 ppm
							1,2,4,5-Tetrachlorobenzene	12.5 ppm
							1,2,4-Trichlorobenzene	12.5 ppm
							1,2-Dichlorobenzene	12.5 ppm
							1,2-Diphenylhydrazine	12.5 ppm
							1,3-Dichlorobenzene	12.5 ppm
							1,3-Dinitrobenzene	12.5 ppm
							1,4-Dichlorobenzene	12.5 ppm
							1,4-Dioxane	12.5 ppm
							1-Methylnaphthalene	12.5 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2'-oxybis[1-chloropropane]	12.5 ppm
							2,3,4,6-Tetrachlorophenol	12.5 ppm
							2,4,5-Trichlorophenol	12.5 ppm
							2,4,6-Trichlorophenol	12.5 ppm
							2,4-Dichlorophenol	12.5 ppm
							2,4-Dimethylphenol	12.5 ppm
							2,4-Dinitrophenol	25 ppm
							2,4-Dinitrotoluene	12.5 ppm
							2,6-Dichlorophenol	12.5 ppm
							2,6-Dinitrotoluene	12.5 ppm
							2-Chloronaphthalene	12.5 ppm
							2-Chlorophenol	12.5 ppm
							2-Methylnaphthalene	12.5 ppm
							2-Methylphenol	12.5 ppm
							2-Nitroaniline	12.5 ppm
							2-Nitrophenol	12.5 ppm
							3-Nitroaniline	12.5 ppm
							4,6-Dinitro-2-methylphenol	25 ppm
							4-Bromophenyl phenyl ether	12.5 ppm
							4-Chloro-3-methylphenol	12.5 ppm
							4-Chloroaniline	12.5 ppm
							4-Chlorophenyl phenyl ether	12.5 ppm
							4-Methylphenol	12.5 ppm
							4-Nitroaniline	12.5 ppm
							4-Nitrophenol	25 ppm
							Acenaphthene	12.5 ppm
							Acenaphthylene	12.5 ppm
							Acetophenone	12.5 ppm
							Aniline	12.5 ppm
							Anthracene	12.5 ppm
							Benzo[a]anthracene	12.5 ppm
							Benzo[a]pyrene	12.5 ppm
							Benzo[b]fluoranthene	12.5 ppm
							Benzo[g,h,i]perylene	12.5 ppm
							Benzo[k]fluoranthene	12.5 ppm
							Benzyl alcohol	12.5 ppm
							Bis(2-chloroethoxy)methane	12.5 ppm
							Bis(2-chloroethyl)ether	12.5 ppm
							Bis(2-ethylhexyl) phthalate	12.5 ppm
							Butylbenzylphthalate	12.5 ppm
							Carbazole	12.5 ppm
							Chrysene	12.5 ppm
							Di-n-butyl phthalate	12.5 ppm
							Di-n-octyl phthalate	12.5 ppm
							Dibenz(a,h)anthracene	12.5 ppm
							Dibenzofuran	12.5 ppm
							Diethylphthalate	12.5 ppm
							Dimethylphthalate	12.5 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoranthene	12.5 ppm
							Fluorene	12.5 ppm
							Hexachlorobenzene	12.5 ppm
							Hexachlorobutadiene	12.5 ppm
							Hexachlorocyclopentadiene	12.5 ppm
							Hexachloroethane	12.5 ppm
							Indeno[1,2,3-cd]pyrene	12.5 ppm
							Isophorone	12.5 ppm
							N-Nitrosodi-n-propylamine	12.5 ppm
							N-Nitrosodimethylamine	12.5 ppm
							N-Nitrosodiphenylamine	10.625 ppm
							Naphthalene	12.5 ppm
							Nitrobenzene	12.5 ppm
							Pentachlorophenol	25 ppm
							Phenanthrene	12.5 ppm
							Phenol	12.5 ppm
							Pyrene	12.5 ppm
							Pyridine	25 ppm
							3,3'-Dichlorobenzidine	12.5 ppm
							Alpha-Terpineol	12.5 ppm
							Dimethylformamide	12.5 ppm
							Octachlorostyrene	12.5 ppm
							Phenyl ether	12.5 ppm
							1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_BAS_WS_00004	03/20/22	09/20/21	MeCl2, Lot 214668	5 mL	OP_LCSmix2stk_00002	250 uL	Atrazine	100 ppm
							Benzaldehyde	100 ppm
							Caprolactam	100 ppm
..OP_LCSmix2stk_00002	03/31/22		Restek, Lot A0164387		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.MSS_FV8270_6_00034	03/31/22	11/11/21	MeCl2, Lot 216834	5 mL	MSS_8270_APWS_00006	1000 uL	Benzidine	150 ppm
							1,3,5-Trinitrobenzene	50 ppm
							1,4-Dinitrobenzene	50 ppm
							1-Naphthylamine	50 ppm
							2-Acetylaminofluorene	50 ppm
							2-Naphthylamine	50 ppm
							2-Picoline	50 ppm
							2-Toluidine	50 ppm
							3,3'-Dimethylbenzidine	50 ppm
							4,4'-Methylene bis(2-chloroaniline)	50 ppm
							4-Aminobiphenyl	50 ppm
							4-Nitroquinoline-1-oxide	50 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz[a,h]acridine	50 ppm
							N-Nitro-o-toluidine	50 ppm
							N-Nitrosodi-n-butylamine	50 ppm
							N-Nitrosodiethylamine	50 ppm
							N-Nitrosomethylethylamine	50 ppm
							N-Nitrosomorpholine	50 ppm
							N-Nitrosopiperidine	50 ppm
							N-Nitrosopyrrolidine	50 ppm
							p-Dimethylamino azobenzene	50 ppm
							p-Phenylene diamine	50 ppm
							Pentachloronitrobenzene	50 ppm
							Phenacetin	50 ppm
							Pronamide	50 ppm
							Quinoline	50 ppm
							1,4-Naphthoquinone	50 ppm
							1-Chloronaphthalene	50 ppm
							7,12-Dimethylbenz(a)anthracene	50 ppm
							Chlorobenzilate	50 ppm
							Dinoseb	50 ppm
							Ethyl methanesulfonate	50 ppm
							Hexachloropropene	50 ppm
							Isodrin	50 ppm
							Isosafrole Peak 1	8 ppm
							Isosafrole Peak 2	42 ppm
							Methyl methanesulfonate	50 ppm
							Pentachlorobenzene	50 ppm
							3-Methylcholanthrene	50 ppm
							6-Methylchrysene	50 ppm
							cis-Diallate	37 ppm
							Dimethoate	50 ppm
							Disulfoton	50 ppm
							Ethyl Parathion	50 ppm
							Methyl parathion	50 ppm
							o,o',o''-Triethylphosphorothioate	50 ppm
							Phorate	50 ppm
							Safrole, Total	50 ppm
							Sulfotepp	50 ppm
							Thionazin	50 ppm
							trans-Diallate	13 ppm
					MSS_8270_WS_00009	1000 uL	2,4,6-Tribromophenol (Surr)	100 ppm
							2-Fluorobiphenyl (Surr)	100 ppm
							2-Fluorophenol (Surr)	100 ppm
							Nitrobenzene-d5 (Surr)	100 ppm
							p-Terphenyl-d14 (Surr)	100 ppm
							Phenol-d5 (Surr)	100 ppm
							Dibenz[a,j]acridine	50 ppm
							1,1'-Biphenyl	50 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4,5-Tetrachlorobenzene	50 ppm
							1,2,4-Trichlorobenzene	50 ppm
							1,2-Dichlorobenzene	50 ppm
							1,2-Diphenylhydrazine	50 ppm
							1,3-Dichlorobenzene	50 ppm
							1,3-Dinitrobenzene	50 ppm
							1,4-Dichlorobenzene	50 ppm
							1,4-Dioxane	50 ppm
							1-Methylnaphthalene	50 ppm
							2,2'-oxybis[1-chloropropane]	50 ppm
							2,3,4,6-Tetrachlorophenol	50 ppm
							2,4,5-Trichlorophenol	50 ppm
							2,4,6-Trichlorophenol	50 ppm
							2,4-Dichlorophenol	50 ppm
							2,4-Dimethylphenol	50 ppm
							2,4-Dinitrophenol	100 ppm
							2,4-Dinitrotoluene	50 ppm
							2,6-Dichlorophenol	50 ppm
							2,6-Dinitrotoluene	50 ppm
							2-Chloronaphthalene	50 ppm
							2-Chlorophenol	50 ppm
							2-Methylnaphthalene	50 ppm
							2-Methylphenol	50 ppm
							2-Nitroaniline	50 ppm
							2-Nitrophenol	50 ppm
							3-Nitroaniline	50 ppm
							4,6-Dinitro-2-methylphenol	100 ppm
							4-Bromophenyl phenyl ether	50 ppm
							4-Chloro-3-methylphenol	50 ppm
							4-Chloroaniline	50 ppm
							4-Chlorophenyl phenyl ether	50 ppm
							4-Methylphenol	50 ppm
							4-Nitroaniline	50 ppm
							4-Nitrophenol	100 ppm
							Acenaphthene	50 ppm
							Acenaphthylene	50 ppm
							Acetophenone	50 ppm
							Aniline	50 ppm
							Anthracene	50 ppm
							Benzo[a]anthracene	50 ppm
							Benzo[a]pyrene	50 ppm
							Benzo[b]fluoranthene	50 ppm
							Benzo[g,h,i]perylene	50 ppm
							Benzo[k]fluoranthene	50 ppm
							Benzyl alcohol	50 ppm
							Bis(2-chloroethoxy)methane	50 ppm
							Bis(2-chloroethyl)ether	50 ppm
							Bis(2-ethylhexyl) phthalate	50 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butylbenzylphthalate	50 ppm
							Carbazole	50 ppm
							Chrysene	50 ppm
							Di-n-butyl phthalate	50 ppm
							Di-n-octyl phthalate	50 ppm
							Dibenz(a,h)anthracene	50 ppm
							Dibenzofuran	50 ppm
							Diethylphthalate	50 ppm
							Dimethylphthalate	50 ppm
							Fluoranthene	50 ppm
							Fluorene	50 ppm
							Hexachlorobenzene	50 ppm
							Hexachlorobutadiene	50 ppm
							Hexachlorocyclopentadiene	50 ppm
							Hexachloroethane	50 ppm
							Indeno[1,2,3-cd]pyrene	50 ppm
							Isophorone	50 ppm
							N-Nitrosodi-n-propylamine	50 ppm
							N-Nitrosodimethylamine	50 ppm
							N-Nitrosodiphenylamine	42.5 ppm
							Naphthalene	50 ppm
							Nitrobenzene	50 ppm
							Pentachlorophenol	100 ppm
							Phenanthrene	50 ppm
							Phenol	50 ppm
							Pyrene	50 ppm
							Pyridine	100 ppm
							3,3'-Dichlorobenzidine	50 ppm
							Benzidine	150 ppm
							Alpha-Terpineol	50 ppm
							Dimethylformamide	50 ppm
							Octachlorostyrene	50 ppm
							Phenyl ether	50 ppm
					MSS_FV8270_IS_00005	100 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
..MSS_8270_APWS_00006	03/31/22	11/10/21	MeCl2, Lot 216834	10 mL	MSS_AB_BZIDIN_00007	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00004	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm
							2-Acetylaminofluorene	250 ppm
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00006	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00004	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00005	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm
							trans-Diallate	65 ppm
...MSS_AB_BZIDIN_00007	01/29/23		Absolute, Lot 012920		(Purchased Reagent)		Benzidine	5000 ug/mL
...OP_RES_APPX1_00004	05/31/22		Restek, Lot A0172197		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
...OP_RES_APPX2_00006	03/31/22		Restek, Lot A0169617		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
...OP_RES_APPX3_00004	03/31/22		Restek, Lot A0170153		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
...OP_RES_APPX4_00005	01/31/23		Restek, Lot A0168635		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-Diallate	260 ug/mL
..MSS_8270_WS_00009	05/10/22	11/10/21	MeCl2, Lot 216834	10 mL	MSS_8270_SURR_00004	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_RES_APPX6_00002	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00007	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butylbenzylphthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethylphthalate	250 ppm
							Dimethylphthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00005	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
					OP_RES_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm
...MSS_8270_SURR_00004	10/31/23		Sigma- Aldrich, Lot LRAC8467		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...OP_RES_APPX6_00002	12/31/23		Restek, Lot A0167365		(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
...OP_RES_LCS1_00007	02/28/23		Restek, Lot A0175066		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...OP_RES_LCS2_00005	07/31/22		Restek, Lot A0168211		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
...OP_RES_LCSadd_00001	12/31/23		Restek, Lot A0166837		(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
..MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_6_00025	03/31/22	01/18/22	MeCl2, Lot 219770	5 mL	MSS_FV8270_6_00035	1250 uL	1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSS_FV8270_6_00035	03/31/22	01/18/22	MeCl2, Lot 217990	5 mL	MSS_FV8270_IS_00005	100 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
..MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_6_00025	03/31/22	01/18/22	MeCl2, Lot 219770	5 mL	MSS_FV8270_6_00035	1250 uL	2,4,6-Tribromophenol (Surr)	25 ppm
							2-Fluorobiphenyl (Surr)	25 ppm
							2-Fluorophenol (Surr)	25 ppm
							Nitrobenzene-d5 (Surr)	25 ppm
							p-Terphenyl-d14 (Surr)	25 ppm
							Phenol-d5 (Surr)	25 ppm
							2,4-Dimethylphenol	12.5 ppm
							2,4-Dinitrophenol	25 ppm
							2-Chlorophenol	12.5 ppm
							Carbazole	12.5 ppm
							Phenol	12.5 ppm
.MSS_FV8270_6_00035	03/31/22	01/18/22	MeCl2, Lot 217990	5 mL	MSS_8270_WS_00009	1000 uL	2,4,6-Tribromophenol (Surr)	100 ppm
							2-Fluorobiphenyl (Surr)	100 ppm
							2-Fluorophenol (Surr)	100 ppm
							Nitrobenzene-d5 (Surr)	100 ppm
							p-Terphenyl-d14 (Surr)	100 ppm
							Phenol-d5 (Surr)	100 ppm
							2,4-Dimethylphenol	50 ppm
							2,4-Dinitrophenol	100 ppm
							2-Chlorophenol	50 ppm
							Carbazole	50 ppm
							Phenol	50 ppm
..MSS_8270_WS_00009	05/10/22	11/10/21	MeCl2, Lot 216834	10 mL	MSS_8270_SURR_00004	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_RES_LCS1_00007	2500 uL	2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2-Chlorophenol	250 ppm
							Carbazole	250 ppm
							Phenol	250 ppm
...MSS_8270_SURR_00004	10/31/23		Sigma- Aldrich, Lot LRAC8467		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
...OP_RES_LCS1_00007	02/28/23		Restek, Lot A0175066		(Purchased Reagent)		2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2-Chlorophenol	1000 ug/mL
							Carbazole	1000 ug/mL
							Phenol	1000 ug/mL
MSS_RV8270_7_00019	03/20/22	11/11/21	MeCl2, Lot 216834	1 mL	MSS_BAS_WS_00004	200 uL	Atrazine	20 ppm
							Benzaldehyde	20 ppm
							Caprolactam	20 ppm
					MSS_FV8270_7_00021	250 uL	Benzidine	60 ppm
							1,3,5-Trinitrobenzene	20 ppm
							1,4-Dinitrobenzene	20 ppm
							1-Naphthylamine	20 ppm
							2-Acetylaminofluorene	20 ppm
							2-Naphthylamine	20 ppm
							2-Picoline	20 ppm
							2-Toluidine	20 ppm
							3,3'-Dimethylbenzidine	20 ppm
							4,4'-Methylene bis(2-chloroaniline)	20 ppm
							4-Aminobiphenyl	20 ppm
							4-Nitroquinoline-1-oxide	20 ppm
							Dibenz[a,h]acridine	20 ppm
							N-Nitro-o-toluidine	20 ppm
							N-Nitrosodi-n-butylamine	20 ppm
							N-Nitrosodiethylamine	20 ppm
							N-Nitrosomethylethylamine	20 ppm
							N-Nitrosomorpholine	20 ppm
							N-Nitrosopiperidine	20 ppm
							N-Nitrosopyrrolidine	20 ppm
							p-Dimethylamino azobenzene	20 ppm
							p-Phenylene diamine	20 ppm
							Pentachloronitrobenzene	20 ppm
							Phenacetin	20 ppm
							Pronamide	20 ppm
							Quinoline	20 ppm
							1,4-Naphthoquinone	20 ppm
							1-Chloronaphthalene	20 ppm
							7,12-Dimethylbenz(a)anthracene	20 ppm
							Chlorobenzilate	20 ppm
							Dinoseb	20 ppm
							Ethyl methanesulfonate	20 ppm
							Hexachloropropene	20 ppm
							Isodrin	20 ppm
							Isosafrole Peak 1	3.2 ppm
							Isosafrole Peak 2	16.8 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl methanesulfonate	20 ppm
							Pentachlorobenzene	20 ppm
							3-Methylcholanthrene	20 ppm
							6-Methylchrysene	20 ppm
							cis-Diallate	14.8 ppm
							Dimethoate	20 ppm
							Disulfoton	20 ppm
							Ethyl Parathion	20 ppm
							Methyl parathion	20 ppm
							o,o',o''-Triethylphosphorothioate	20 ppm
							Phorate	20 ppm
							Safrole, Total	20 ppm
							Sulfotepp	20 ppm
							Thionazin	20 ppm
							trans-Diallate	5.2 ppm
							2,4,6-Tribromophenol (Surr)	40 ppm
							2-Fluorobiphenyl (Surr)	40 ppm
							2-Fluorophenol (Surr)	40 ppm
							Nitrobenzene-d5 (Surr)	40 ppm
							p-Terphenyl-d14 (Surr)	40 ppm
							Phenol-d5 (Surr)	40 ppm
							Dibenz[a,j]acridine	20 ppm
							1,1'-Biphenyl	20 ppm
							1,2,4,5-Tetrachlorobenzene	20 ppm
							1,2,4-Trichlorobenzene	20 ppm
							1,2-Dichlorobenzene	20 ppm
							1,2-Diphenylhydrazine	20 ppm
							1,3-Dichlorobenzene	20 ppm
							1,3-Dinitrobenzene	20 ppm
							1,4-Dichlorobenzene	20 ppm
							1,4-Dioxane	20 ppm
							1-Methylnaphthalene	20 ppm
							2,2'-oxybis[1-chloropropane]	20 ppm
							2,3,4,6-Tetrachlorophenol	20 ppm
							2,4,5-Trichlorophenol	20 ppm
							2,4,6-Trichlorophenol	20 ppm
							2,4-Dichlorophenol	20 ppm
							2,4-Dimethylphenol	20 ppm
							2,4-Dinitrophenol	40 ppm
							2,4-Dinitrotoluene	20 ppm
							2,6-Dichlorophenol	20 ppm
							2,6-Dinitrotoluene	20 ppm
							2-Chloronaphthalene	20 ppm
							2-Chlorophenol	20 ppm
							2-Methylnaphthalene	20 ppm
							2-Methylphenol	20 ppm
							2-Nitroaniline	20 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitrophenol	20 ppm
							3-Nitroaniline	20 ppm
							4,6-Dinitro-2-methylphenol	40 ppm
							4-Bromophenyl phenyl ether	20 ppm
							4-Chloro-3-methylphenol	20 ppm
							4-Chloroaniline	20 ppm
							4-Chlorophenyl phenyl ether	20 ppm
							4-Methylphenol	20 ppm
							4-Nitroaniline	20 ppm
							4-Nitrophenol	40 ppm
							Acenaphthene	20 ppm
							Acenaphthylene	20 ppm
							Acetophenone	20 ppm
							Aniline	20 ppm
							Anthracene	20 ppm
							Benzo[a]anthracene	20 ppm
							Benzo[a]pyrene	20 ppm
							Benzo[b]fluoranthene	20 ppm
							Benzo[g,h,i]perylene	20 ppm
							Benzo[k]fluoranthene	20 ppm
							Benzyl alcohol	20 ppm
							Bis(2-chloroethoxy)methane	20 ppm
							Bis(2-chloroethyl)ether	20 ppm
							Bis(2-ethylhexyl) phthalate	20 ppm
							Butylbenzylphthalate	20 ppm
							Carbazole	20 ppm
							Chrysene	20 ppm
							Di-n-butyl phthalate	20 ppm
							Di-n-octyl phthalate	20 ppm
							Dibenz(a,h)anthracene	20 ppm
							Dibenzofuran	20 ppm
							Diethylphthalate	20 ppm
							Dimethylphthalate	20 ppm
							Fluoranthene	20 ppm
							Fluorene	20 ppm
							Hexachlorobenzene	20 ppm
							Hexachlorobutadiene	20 ppm
							Hexachlorocyclopentadiene	20 ppm
							Hexachloroethane	20 ppm
							Indeno[1,2,3-cd]pyrene	20 ppm
							Isophorone	20 ppm
							N-Nitrosodi-n-propylamine	20 ppm
							N-Nitrosodimethylamine	20 ppm
							N-Nitrosodiphenylamine	17 ppm
							Naphthalene	20 ppm
							Nitrobenzene	20 ppm
							Pentachlorophenol	40 ppm
							Phenanthrene	20 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol	20 ppm
							Pyrene	20 ppm
							Pyridine	40 ppm
							3,3'-Dichlorobenzidine	20 ppm
							Alpha-Terpineol	20 ppm
							Dimethylformamide	20 ppm
							Octachlorostyrene	20 ppm
							Phenyl ether	20 ppm
							1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_BAS_WS_00004	03/20/22	09/20/21	MeCl2, Lot 214668	5 mL	OP_LCSmix2stk_00002	250 uL	Atrazine	100 ppm
							Benzaldehyde	100 ppm
							Caprolactam	100 ppm
..OP_LCSmix2stk_00002	03/31/22		Restek, Lot A0164387		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.MSS_FV8270_7_00021	03/31/22	11/11/21	MeCl2, Lot 216834	2 mL	MSS_8270_APWS_00006	640 uL	Benzidine	240 ppm
							1,3,5-Trinitrobenzene	80 ppm
							1,4-Dinitrobenzene	80 ppm
							1-Naphthylamine	80 ppm
							2-Acetylaminofluorene	80 ppm
							2-Naphthylamine	80 ppm
							2-Picoline	80 ppm
							2-Toluidine	80 ppm
							3,3'-Dimethylbenzidine	80 ppm
							4,4'-Methylene bis(2-chloroaniline)	80 ppm
							4-Aminobiphenyl	80 ppm
							4-Nitroquinoline-1-oxide	80 ppm
							Dibenz[a,h]acridine	80 ppm
							N-Nitro-o-toluidine	80 ppm
							N-Nitrosodi-n-butylamine	80 ppm
							N-Nitrosodiethylamine	80 ppm
							N-Nitrosomethylethylamine	80 ppm
							N-Nitrosomorpholine	80 ppm
							N-Nitrosopiperidine	80 ppm
							N-Nitrosopyrrolidine	80 ppm
							p-Dimethylamino azobenzene	80 ppm
							p-Phenylene diamine	80 ppm
							Pentachloronitrobenzene	80 ppm
							Phenacetin	80 ppm
							Pronamide	80 ppm
							Quinoline	80 ppm
							1,4-Naphthoquinone	80 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1-Chloronaphthalene	80 ppm
							7,12-Dimethylbenz(a)anthracene	80 ppm
							Chlorobenzilate	80 ppm
							Dinoseb	80 ppm
							Ethyl methanesulfonate	80 ppm
							Hexachloropropene	80 ppm
							Isodrin	80 ppm
							Isosafrole Peak 1	12.8 ppm
							Isosafrole Peak 2	67.2 ppm
							Methyl methanesulfonate	80 ppm
							Pentachlorobenzene	80 ppm
							3-Methylcholanthrene	80 ppm
							6-Methylchrysene	80 ppm
							cis-Diallate	59.2 ppm
							Dimethoate	80 ppm
							Disulfoton	80 ppm
							Ethyl Parathion	80 ppm
							Methyl parathion	80 ppm
							o,o',o''-Triethylphosphorothioate	80 ppm
							Phorate	80 ppm
							Safrole, Total	80 ppm
							Sulfotepp	80 ppm
							Thionazin	80 ppm
							trans-Diallate	20.8 ppm
					MSS_8270_WS_00009	640 uL	2,4,6-Tribromophenol (Surr)	160 ppm
							2-Fluorobiphenyl (Surr)	160 ppm
							2-Fluorophenol (Surr)	160 ppm
							Nitrobenzene-d5 (Surr)	160 ppm
							p-Terphenyl-d14 (Surr)	160 ppm
							Phenol-d5 (Surr)	160 ppm
							Dibenz[a,j]acridine	80 ppm
							1,1'-Biphenyl	80 ppm
							1,2,4,5-Tetrachlorobenzene	80 ppm
							1,2,4-Trichlorobenzene	80 ppm
							1,2-Dichlorobenzene	80 ppm
							1,2-Diphenylhydrazine	80 ppm
							1,3-Dichlorobenzene	80 ppm
							1,3-Dinitrobenzene	80 ppm
							1,4-Dichlorobenzene	80 ppm
							1,4-Dioxane	80 ppm
							1-Methylnaphthalene	80 ppm
							2,2'-oxybis[1-chloropropane]	80 ppm
							2,3,4,6-Tetrachlorophenol	80 ppm
							2,4,5-Trichlorophenol	80 ppm
							2,4,6-Trichlorophenol	80 ppm
							2,4-Dichlorophenol	80 ppm
							2,4-Dimethylphenol	80 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrophenol	160 ppm
							2,4-Dinitrotoluene	80 ppm
							2,6-Dichlorophenol	80 ppm
							2,6-Dinitrotoluene	80 ppm
							2-Chloronaphthalene	80 ppm
							2-Chlorophenol	80 ppm
							2-Methylnaphthalene	80 ppm
							2-Methylphenol	80 ppm
							2-Nitroaniline	80 ppm
							2-Nitrophenol	80 ppm
							3-Nitroaniline	80 ppm
							4,6-Dinitro-2-methylphenol	160 ppm
							4-Bromophenyl phenyl ether	80 ppm
							4-Chloro-3-methylphenol	80 ppm
							4-Chloroaniline	80 ppm
							4-Chlorophenyl phenyl ether	80 ppm
							4-Methylphenol	80 ppm
							4-Nitroaniline	80 ppm
							4-Nitrophenol	160 ppm
							Acenaphthene	80 ppm
							Acenaphthylene	80 ppm
							Acetophenone	80 ppm
							Aniline	80 ppm
							Anthracene	80 ppm
							Benzo[a]anthracene	80 ppm
							Benzo[a]pyrene	80 ppm
							Benzo[b]fluoranthene	80 ppm
							Benzo[g,h,i]perylene	80 ppm
							Benzo[k]fluoranthene	80 ppm
							Benzyl alcohol	80 ppm
							Bis(2-chloroethoxy)methane	80 ppm
							Bis(2-chloroethyl)ether	80 ppm
							Bis(2-ethylhexyl) phthalate	80 ppm
							Butylbenzylphthalate	80 ppm
							Carbazole	80 ppm
							Chrysene	80 ppm
							Di-n-butyl phthalate	80 ppm
							Di-n-octyl phthalate	80 ppm
							Dibenz(a,h)anthracene	80 ppm
							Dibenzofuran	80 ppm
							Diethylphthalate	80 ppm
							Dimethylphthalate	80 ppm
							Fluoranthene	80 ppm
							Fluorene	80 ppm
							Hexachlorobenzene	80 ppm
							Hexachlorobutadiene	80 ppm
							Hexachlorocyclopentadiene	80 ppm
							Hexachloroethane	80 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Indeno[1,2,3-cd]pyrene	80 ppm
							Isophorone	80 ppm
							N-Nitrosodi-n-propylamine	80 ppm
							N-Nitrosodimethylamine	80 ppm
							N-Nitrosodiphenylamine	68 ppm
							Naphthalene	80 ppm
							Nitrobenzene	80 ppm
							Pentachlorophenol	160 ppm
							Phenanthrene	80 ppm
							Phenol	80 ppm
							Pyrene	80 ppm
							Pyridine	160 ppm
							3,3'-Dichlorobenzidine	80 ppm
							Benzidine	240 ppm
							Alpha-Terpineol	80 ppm
							Dimethylformamide	80 ppm
							Octachlorostyrene	80 ppm
							Phenyl ether	80 ppm
					MSS_FV8270_IS_00005	40 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
..MSS_8270_APWS_00006	03/31/22	11/10/21	MeCl2, Lot 216834	10 mL	MSS_AB_BZIDIN_00007	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00004	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm
							2-Acetylaminofluorene	250 ppm
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00006	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00004	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00005	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm
							trans-Diallate	65 ppm
...MSS_AB_BZIDIN_00007	01/29/23		Absolute, Lot 012920		(Purchased Reagent)		Benzidine	5000 ug/mL
...OP_RES_APPX1_00004	05/31/22		Restek, Lot A0172197		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
...OP_RES_APPX2_00006	03/31/22		Restek, Lot A0169617		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
...OP_RES_APPX3_00004	03/31/22		Restek, Lot A0170153		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
...OP_RES_APPX4_00005	01/31/23		Restek, Lot A0168635		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL
							trans-Diallate	260 ug/mL
..MSS_8270_WS_00009	05/10/22	11/10/21	MeCl2, Lot 216834	10 mL	MSS_8270_SURR_00004	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_RES_APPX6_00002	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00007	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butylbenzylphthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	250 ppm
							Diethylphthalate	250 ppm
							Dimethylphthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00005	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
					OP_RES_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm
...MSS_8270_SURR_00004	10/31/23		Sigma- Aldrich, Lot LRAC8467		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
...OP_RES_APPX6_00002	12/31/23		Restek, Lot A0167365		(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
...OP_RES_LCS1_00007	02/28/23		Restek, Lot A0175066		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...OP_RES_LCS2_00005	07/31/22		Restek, Lot A0168211		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
...OP_RES_LCSadd_00001	12/31/23		Restek, Lot A0166837		(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
..MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_8_00020	03/20/22	11/11/21	MeCl2, Lot 216834	1 mL	MSS_BAS_WS_00004	300 uL	Atrazine	30 ppm
							Benzaldehyde	30 ppm
							Caprolactam	30 ppm
					MSS_FV8270_8_00020	250 uL	Benzidine	90 ppm
							1,3,5-Trinitrobenzene	30 ppm
							1,4-Dinitrobenzene	30 ppm
							1-Naphthylamine	30 ppm
							2-Acetylaminofluorene	30 ppm
							2-Naphthylamine	30 ppm
							2-Picoline	30 ppm
							2-Toluidine	30 ppm
							3,3'-Dimethylbenzidine	30 ppm
							4,4'-Methylene bis(2-chloroaniline)	30 ppm
							4-Aminobiphenyl	30 ppm
							4-Nitroquinoline-1-oxide	30 ppm
							Dibenz[a,h]acridine	30 ppm
							N-Nitro-o-toluidine	30 ppm
							N-Nitrosodi-n-butylamine	30 ppm
							N-Nitrosodiethylamine	30 ppm
							N-Nitrosomethylethylamine	30 ppm
							N-Nitrosomorpholine	30 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosopiperidine	30 ppm
							N-Nitrosopyrrolidine	30 ppm
							p-Dimethylamino azobenzene	30 ppm
							p-Phenylene diamine	30 ppm
							Pentachloronitrobenzene	30 ppm
							Phenacetin	30 ppm
							Pronamide	30 ppm
							Quinoline	30 ppm
							1,4-Naphthoquinone	30 ppm
							1-Chloronaphthalene	30 ppm
							7,12-Dimethylbenz(a)anthracene	30 ppm
							Chlorobenzilate	30 ppm
							Dinoseb	30 ppm
							Ethyl methanesulfonate	30 ppm
							Hexachloropropene	30 ppm
							Isodrin	30 ppm
							Isosafrole Peak 1	4.8 ppm
							Isosafrole Peak 2	25.2 ppm
							Methyl methanesulfonate	30 ppm
							Pentachlorobenzene	30 ppm
							3-Methylcholanthrene	30 ppm
							6-Methylchrysene	30 ppm
							cis-Diallate	22.2 ppm
							Dimethoate	30 ppm
							Disulfoton	30 ppm
							Ethyl Parathion	30 ppm
							Methyl parathion	30 ppm
							o,o',o''-Triethylphosphorothioate	30 ppm
							Phorate	30 ppm
							Safrole, Total	30 ppm
							Sulfotepp	30 ppm
							Thionazin	30 ppm
							trans-Diallate	7.8 ppm
							2,4,6-Tribromophenol (Surr)	60 ppm
							2-Fluorobiphenyl (Surr)	60 ppm
							2-Fluorophenol (Surr)	60 ppm
							Nitrobenzene-d5 (Surr)	60 ppm
							p-Terphenyl-d14 (Surr)	60 ppm
							Phenol-d5 (Surr)	60 ppm
							Dibenz[a,j]acridine	30 ppm
							1,1'-Biphenyl	30 ppm
							1,2,4,5-Tetrachlorobenzene	30 ppm
							1,2,4-Trichlorobenzene	30 ppm
							1,2-Dichlorobenzene	30 ppm
							1,2-Diphenylhydrazine	30 ppm
							1,3-Dichlorobenzene	30 ppm
							1,3-Dinitrobenzene	30 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	30 ppm
							1,4-Dioxane	30 ppm
							1-Methylnaphthalene	30 ppm
							2,2'-oxybis[1-chloropropane]	30 ppm
							2,3,4,6-Tetrachlorophenol	30 ppm
							2,4,5-Trichlorophenol	30 ppm
							2,4,6-Trichlorophenol	30 ppm
							2,4-Dichlorophenol	30 ppm
							2,4-Dimethylphenol	30 ppm
							2,4-Dinitrophenol	60 ppm
							2,4-Dinitrotoluene	30 ppm
							2,6-Dichlorophenol	30 ppm
							2,6-Dinitrotoluene	30 ppm
							2-Chloronaphthalene	30 ppm
							2-Chlorophenol	30 ppm
							2-Methylnaphthalene	30 ppm
							2-Methylphenol	30 ppm
							2-Nitroaniline	30 ppm
							2-Nitrophenol	30 ppm
							3-Nitroaniline	30 ppm
							4,6-Dinitro-2-methylphenol	60 ppm
							4-Bromophenyl phenyl ether	30 ppm
							4-Chloro-3-methylphenol	30 ppm
							4-Chloroaniline	30 ppm
							4-Chlorophenyl phenyl ether	30 ppm
							4-Methylphenol	30 ppm
							4-Nitroaniline	30 ppm
							4-Nitrophenol	60 ppm
							Acenaphthene	30 ppm
							Acenaphthylene	30 ppm
							Acetophenone	30 ppm
							Aniline	30 ppm
							Anthracene	30 ppm
							Benzo[a]anthracene	30 ppm
							Benzo[a]pyrene	30 ppm
							Benzo[b]fluoranthene	30 ppm
							Benzo[g,h,i]perylene	30 ppm
							Benzo[k]fluoranthene	30 ppm
							Benzyl alcohol	30 ppm
							Bis(2-chloroethoxy)methane	30 ppm
							Bis(2-chloroethyl)ether	30 ppm
							Bis(2-ethylhexyl) phthalate	30 ppm
							Butylbenzylphthalate	30 ppm
							Carbazole	30 ppm
							Chrysene	30 ppm
							Di-n-butyl phthalate	30 ppm
							Di-n-octyl phthalate	30 ppm
							Dibenz(a,h)anthracene	30 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	30 ppm
							Diethylphthalate	30 ppm
							Dimethylphthalate	30 ppm
							Fluoranthene	30 ppm
							Fluorene	30 ppm
							Hexachlorobenzene	30 ppm
							Hexachlorobutadiene	30 ppm
							Hexachlorocyclopentadiene	30 ppm
							Hexachloroethane	30 ppm
							Indeno[1,2,3-cd]pyrene	30 ppm
							Isophorone	30 ppm
							N-Nitrosodi-n-propylamine	30 ppm
							N-Nitrosodimethylamine	30 ppm
							N-Nitrosodiphenylamine	25.5 ppm
							Naphthalene	30 ppm
							Nitrobenzene	30 ppm
							Pentachlorophenol	60 ppm
							Phenanthrene	30 ppm
							Phenol	30 ppm
							Pyrene	30 ppm
							Pyridine	60 ppm
							3,3'-Dichlorobenzidine	30 ppm
							Alpha-Terpineol	30 ppm
							Dimethylformamide	30 ppm
							Octachlorostyrene	30 ppm
							Phenyl ether	30 ppm
							1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_BAS_WS_00004	03/20/22	09/20/21	MeCl2, Lot 214668	5 mL	OP_LCSmix2stk_00002	250 uL	Atrazine	100 ppm
							Benzaldehyde	100 ppm
							Caprolactam	100 ppm
..OP_LCSmix2stk_00002	03/31/22	Restek, Lot A0164387			(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.MSS_FV8270_8_00020	03/31/22	11/11/21	MeCl2, Lot 216834	2 mL	MSS_8270_APWS_00006	960 uL	Benzidine	360 ppm
							1,3,5-Trinitrobenzene	120 ppm
							1,4-Dinitrobenzene	120 ppm
							1-Naphthylamine	120 ppm
							2-Acetylaminofluorene	120 ppm
							2-Naphthylamine	120 ppm
							2-Picoline	120 ppm
							2-Toluidine	120 ppm
							3,3'-Dimethylbenzidine	120 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,4'-Methylene bis(2-chloroaniline)	120 ppm
							4-Aminobiphenyl	120 ppm
							4-Nitroquinoline-1-oxide	120 ppm
							Dibenz[a,h]acridine	120 ppm
							N-Nitro-o-toluidine	120 ppm
							N-Nitrosodi-n-butylamine	120 ppm
							N-Nitrosodiethylamine	120 ppm
							N-Nitrosomethylethylamine	120 ppm
							N-Nitrosomorpholine	120 ppm
							N-Nitrosopiperidine	120 ppm
							N-Nitrosopyrrolidine	120 ppm
							p-Dimethylamino azobenzene	120 ppm
							p-Phenylene diamine	120 ppm
							Pentachloronitrobenzene	120 ppm
							Phenacetin	120 ppm
							Pronamide	120 ppm
							Quinoline	120 ppm
							1,4-Naphthoquinone	120 ppm
							1-Chloronaphthalene	120 ppm
							7,12-Dimethylbenz(a)anthracene	120 ppm
							Chlorobenzilate	120 ppm
							Dinoseb	120 ppm
							Ethyl methanesulfonate	120 ppm
							Hexachloropropene	120 ppm
							Isodrin	120 ppm
							Isosafrole Peak 1	19.2 ppm
							Isosafrole Peak 2	100.8 ppm
							Methyl methanesulfonate	120 ppm
							Pentachlorobenzene	120 ppm
							3-Methylcholanthrene	120 ppm
							6-Methylchrysene	120 ppm
							cis-Diallate	88.8 ppm
							Dimethoate	120 ppm
							Disulfoton	120 ppm
							Ethyl Parathion	120 ppm
							Methyl parathion	120 ppm
							o,o',o''-Triethylphosphorothioate	120 ppm
							Phorate	120 ppm
							Safrole, Total	120 ppm
							Sulfotepp	120 ppm
							Thionazin	120 ppm
							trans-Diallate	31.2 ppm
					MSS_8270_WS_00009	960 uL	2,4,6-Tribromophenol (Surr)	240 ppm
							2-Fluorobiphenyl (Surr)	240 ppm
							2-Fluorophenol (Surr)	240 ppm
							Nitrobenzene-d5 (Surr)	240 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							p-Terphenyl-d14 (Surr)	240 ppm
							Phenol-d5 (Surr)	240 ppm
							Dibenz[a,j]acridine	120 ppm
							1,1'-Biphenyl	120 ppm
							1,2,4,5-Tetrachlorobenzene	120 ppm
							1,2,4-Trichlorobenzene	120 ppm
							1,2-Dichlorobenzene	120 ppm
							1,2-Diphenylhydrazine	120 ppm
							1,3-Dichlorobenzene	120 ppm
							1,3-Dinitrobenzene	120 ppm
							1,4-Dichlorobenzene	120 ppm
							1,4-Dioxane	120 ppm
							1-Methylnaphthalene	120 ppm
							2,2'-oxybis[1-chloropropane]	120 ppm
							2,3,4,6-Tetrachlorophenol	120 ppm
							2,4,5-Trichlorophenol	120 ppm
							2,4,6-Trichlorophenol	120 ppm
							2,4-Dichlorophenol	120 ppm
							2,4-Dimethylphenol	120 ppm
							2,4-Dinitrophenol	240 ppm
							2,4-Dinitrotoluene	120 ppm
							2,6-Dichlorophenol	120 ppm
							2,6-Dinitrotoluene	120 ppm
							2-Chloronaphthalene	120 ppm
							2-Chlorophenol	120 ppm
							2-Methylnaphthalene	120 ppm
							2-Methylphenol	120 ppm
							2-Nitroaniline	120 ppm
							2-Nitrophenol	120 ppm
							3-Nitroaniline	120 ppm
							4,6-Dinitro-2-methylphenol	240 ppm
							4-Bromophenyl phenyl ether	120 ppm
							4-Chloro-3-methylphenol	120 ppm
							4-Chloroaniline	120 ppm
							4-Chlorophenyl phenyl ether	120 ppm
							4-Methylphenol	120 ppm
							4-Nitroaniline	120 ppm
							4-Nitrophenol	240 ppm
							Acenaphthene	120 ppm
							Acenaphthylene	120 ppm
							Acetophenone	120 ppm
							Aniline	120 ppm
							Anthracene	120 ppm
							Benzo[a]anthracene	120 ppm
							Benzo[a]pyrene	120 ppm
							Benzo[b]fluoranthene	120 ppm
							Benzo[g,h,i]perylene	120 ppm
							Benzo[k]fluoranthene	120 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl alcohol	120 ppm
							Bis(2-chloroethoxy)methane	120 ppm
							Bis(2-chloroethyl)ether	120 ppm
							Bis(2-ethylhexyl) phthalate	120 ppm
							Butylbenzylphthalate	120 ppm
							Carbazole	120 ppm
							Chrysene	120 ppm
							Di-n-butyl phthalate	120 ppm
							Di-n-octyl phthalate	120 ppm
							Dibenz(a,h)anthracene	120 ppm
							Dibenzofuran	120 ppm
							Diethylphthalate	120 ppm
							Dimethylphthalate	120 ppm
							Fluoranthene	120 ppm
							Fluorene	120 ppm
							Hexachlorobenzene	120 ppm
							Hexachlorobutadiene	120 ppm
							Hexachlorocyclopentadiene	120 ppm
							Hexachloroethane	120 ppm
							Indeno[1,2,3-cd]pyrene	120 ppm
							Isophorone	120 ppm
							N-Nitrosodi-n-propylamine	120 ppm
							N-Nitrosodimethylamine	120 ppm
							N-Nitrosodiphenylamine	102 ppm
							Naphthalene	120 ppm
							Nitrobenzene	120 ppm
							Pentachlorophenol	240 ppm
							Phenanthrene	120 ppm
							Phenol	120 ppm
							Pyrene	120 ppm
							Pyridine	240 ppm
							3,3'-Dichlorobenzidine	120 ppm
							Benzidine	360 ppm
							Alpha-Terpineol	120 ppm
							Dimethylformamide	120 ppm
							Octachlorostyrene	120 ppm
							Phenyl ether	120 ppm
					MSS_FV8270_IS_00005	40 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
..MSS_8270_APWS_00006	03/31/22	11/10/21	MeCl2, Lot 216834	10 mL	MSS_AB_BZIDIN_00007	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00004	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm
							2-Acetylaminofluorene	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00006	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00004	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00005	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm
							trans-Diallate	65 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...MSS_AB_BZIDIN_00007	01/29/23		Absolute, Lot 012920		(Purchased Reagent)		Benzidine	5000 ug/mL
...OP_RES_APPX1_00004	05/31/22		Restek, Lot A0172197		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
...OP_RES_APPX2_00006	03/31/22		Restek, Lot A0169617		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
...OP_RES_APPX3_00004	03/31/22		Restek, Lot A0170153		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
...OP_RES_APPX4_00005	01/31/23		Restek, Lot A0168635		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL
							o,o',o''-Triethylphosphorothioate	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL
							trans-Diallate	260 ug/mL
..MSS_8270_WS_00009	05/10/22	11/10/21	MeCl2, Lot 216834	10 mL	MSS_8270_SURR_00004	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_RES_APPX6_00002	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00007	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butylbenzylphthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethylphthalate	250 ppm
							Dimethylphthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00005	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
					OP_RES_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm
...MSS_8270_SURR_00004	10/31/23		Sigma- Aldrich, Lot LRAC8467		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
...OP_RES_APPX6_00002	12/31/23		Restek, Lot A0167365		(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
...OP_RES_LCS1_00007	02/28/23		Restek, Lot A0175066		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...OP_RES_LCS2_00005	07/31/22		Restek, Lot A0168211		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
...OP_RES_LCSadd_00001	12/31/23		Restek, Lot A0166837		(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
..MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_IS_00022	11/30/23	02/23/21	MeCl2, Lot 206284	25 mL	MSS_FV8270_IS_00005	6250 uL	1,4-Dichlorobenzene-d4	250 ppm
							Acenaphthene-d10	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene-d8	250 ppm
							Perylene-d12	250 ppm
							Phenanthrene-d10	250 ppm
							Pyrene-d10 (IS)	250 ppm
.MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270ICV_00014	02/28/22	10/03/21	MeCl2, Lot 214959	3 mL	MSS_FV8270ICV_00014	750 uL	1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_FV8270ICV_00014	02/28/22	10/03/21	MeCl2, Lot 214959	5 mL	MSS_FV8270_IS_00005	100 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
..MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270ICV_00014	02/28/22	10/03/21	MeCl2, Lot 214959	3 mL	MSS_FV8270ICV_00014	750 uL	2,4-Dimethylphenol	12.5 ppm
							2,4-Dinitrophenol	25 ppm
							2-Chlorophenol	12.5 ppm
							Carbazole	12.5 ppm
							Phenol	12.5 ppm
.MSS_FV8270ICV_00014	02/28/22	10/03/21	MeCl2, Lot 214959	5 mL	MS_RES_ICV1_00002	250 uL	2,4-Dimethylphenol	50 ppm
							2,4-Dinitrophenol	100 ppm
							2-Chlorophenol	50 ppm
							Carbazole	50 ppm
							Phenol	50 ppm
..MS_RES_ICV1_00002	09/30/22		Restek, Lot A0169665		(Purchased Reagent)		2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2-Chlorophenol	1000 ug/mL
							Carbazole	1000 ug/mL
							Phenol	1000 ug/mL
MSS_RVBAS_ICV_00009	05/01/22	11/01/21	MeCl2, Lot 214960	2 mL	MSS_FVICV_BAS_00005	500 uL	1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_FVICV_BAS_00005	05/01/22	11/01/21	MeCl2, Lot 214960	5 mL	MSS_FV8270_IS_00005	100 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
..MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RVDFTPP_00009							4,4'-DDD	
							4,4'-DDE	
							Aramite, Total	
							Diallate	
							Isosafrole	
							m&p-Methylphenol	
							Tentatively Identified Compound	
							Total Cresols	
							Total PAH	
					MSS_AB_DFTPP_00013	625 uL	4,4'-DDT	12.5 ppm
							Benzidine_T	12.5 ppm
							DFTPP	12.5 ppm
							Pentachlorophenol_T	12.5 ppm
.MSS_AB_DFTPP_00013	06/30/22		Absolute, Lot 112519		(Purchased Reagent)		4,4'-DDT	500 ug/mL
							Benzidine_T	500 ug/mL
							DFTPP	500 ug/mL
							Pentachlorophenol_T	500 ug/mL
MSS_rvICV_HCP_00002	08/14/22	02/14/22	MeCl2, Lot 212644	2 mL	MSS_FVICV_HCP_00008	500 uL	1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_FVICV_HCP_00008	08/14/22	02/14/22	MeCl2, Lot 212644	2 mL	MSS_FV8270_IS_00005	40 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
..MSS_FV8270_IS_00005	11/30/23		Restek, Lot A0166482		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RVSIM_1_00014	06/04/22	12/16/21	MeCl2, Lot 216834	1 mL	MSS_PHTH_WS2_00008	25 uL	Bis(2-ethylhexyl) phthalate	0.25 ppm
							Butylbenzylphthalate	0.25 ppm
							Di-n-butyl phthalate	0.25 ppm
							Di-n-octyl phthalate	0.25 ppm
							Diethylphthalate	0.25 ppm
							Dimethylphthalate	0.25 ppm
					MSS_RVSIM_IS_00024	10 uL	1,4-Dichlorobenzene-d4	0.25 ppm
							Acenaphthene-d10	0.25 ppm
							Chrysene-d12	0.25 ppm
							Naphthalene-d8	0.25 ppm
							Perylene-d12	0.25 ppm
							Phenanthrene-d10	0.25 ppm
					MSS_RVSIM_WS2_00009	20 uL	1,4-Dioxane	0.01 ppm
							Bis(2-chloroethyl)ether	0.01 ppm
							Hexachlorobenzene	0.01 ppm
							N-Nitrosodimethylamine	0.01 ppm
							N-Nitrosodiphenylamine	0.01 ppm
							1-Methylnaphthalene	0.01 ppm
							2-Methylnaphthalene	0.01 ppm
							Acenaphthene	0.01 ppm
							Acenaphthylene	0.01 ppm
							Anthracene	0.01 ppm
							Benzo[a]anthracene	0.01 ppm
							Benzo[a]pyrene	0.01 ppm
							Benzo[b]fluoranthene	0.01 ppm
							Benzo[e]pyrene	0.01 ppm
							Benzo[g,h,i]perylene	0.01 ppm
							Benzo[k]fluoranthene	0.01 ppm
							Chrysene	0.01 ppm
							Dibenz(a,h)anthracene	0.01 ppm
							Dibenzofuran	0.01 ppm
							Fluoranthene	0.01 ppm
							Fluorene	0.01 ppm
							Indeno[1,2,3-cd]pyrene	0.01 ppm
							Naphthalene	0.01 ppm
							Perylene	0.01 ppm
							Phenanthrene	0.01 ppm
							Pyrene	0.01 ppm
							Quinoline	0.01 ppm
							1-Methylnaphthalene-d10 (Surr)	0.01 ppm
							Benzo(a)pyrene-d12 (Surr)	0.01 ppm
							Fluoranthene-d10 (Surr)	0.01 ppm
.MSS_PHTH_WS2_00008	06/16/22	12/16/21	MeCl2, Lot 216834	2 mL	MSS_PHTH_WS1_00010	200 uL	Bis(2-ethylhexyl) phthalate	10 ppm
							Butylbenzylphthalate	10 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-butyl phthalate	10 ppm
							Di-n-octyl phthalate	10 ppm
							Diethylphthalate	10 ppm
							Dimethylphthalate	10 ppm
..MSS_PHTH_WS1_00010	06/16/22	12/16/21	MeCl2, Lot 216834	2 mL	MSS_AB_PHTHAL_00004	100 uL	Bis(2-ethylhexyl) phthalate	100 ppm
							Butylbenzylphthalate	100 ppm
							Di-n-butyl phthalate	100 ppm
							Di-n-octyl phthalate	100 ppm
							Diethylphthalate	100 ppm
							Dimethylphthalate	100 ppm
...MSS_AB_PHTHAL_00004	10/20/23		Absolute, Lot 102720		(Purchased Reagent)		Bis(2-ethylhexyl) phthalate	2000 ug/mL
							Butylbenzylphthalate	2000 ug/mL
							Di-n-butyl phthalate	2000 ug/mL
							Di-n-octyl phthalate	2000 ug/mL
							Diethylphthalate	2000 ug/mL
							Dimethylphthalate	2000 ug/mL
.MSS_RVSIM_IS_00024	06/14/22	12/14/21	MeCl2, Lot 216834	10 mL	MSS_SIMTEL_IS_00010	125 uL	1,4-Dichlorobenzene-d4	25 ppm
							Acenaphthene-d10	25 ppm
							Chrysene-d12	25 ppm
							Naphthalene-d8	25 ppm
							Perylene-d12	25 ppm
							Phenanthrene-d10	25 ppm
..MSS_SIMTEL_IS_00010	02/28/27		Restek, Lot A0170322		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MSS_RVSIM_WS2_00009	06/04/22	12/16/21	MeCl2, Lot 216834	2 mL	MSS_RVSIM_WS1_00011	100 uL	1,4-Dioxane	0.5 ppm
							Bis(2-chloroethyl)ether	0.5 ppm
							Hexachlorobenzene	0.5 ppm
							N-Nitrosodimethylamine	0.5 ppm
							N-Nitrosodiphenylamine	0.5 ppm
							1-Methylnaphthalene	0.5 ppm
							2-Methylnaphthalene	0.5 ppm
							Acenaphthene	0.5 ppm
							Acenaphthylene	0.5 ppm
							Anthracene	0.5 ppm
							Benzo[a]anthracene	0.5 ppm
							Benzo[a]pyrene	0.5 ppm
							Benzo[b]fluoranthene	0.5 ppm
							Benzo[e]pyrene	0.5 ppm
							Benzo[g,h,i]perylene	0.5 ppm
							Benzo[k]fluoranthene	0.5 ppm
							Chrysene	0.5 ppm
							Dibenz(a,h)anthracene	0.5 ppm
							Dibenzofuran	0.5 ppm
							Fluoranthene	0.5 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	0.5 ppm
							Indeno[1,2,3-cd]pyrene	0.5 ppm
							Naphthalene	0.5 ppm
							Perylene	0.5 ppm
							Phenanthrene	0.5 ppm
							Pyrene	0.5 ppm
							Quinoline	0.5 ppm
							1-Methylnaphthalene-d10 (Surr)	0.5 ppm
							Benzo(a)pyrene-d12 (Surr)	0.5 ppm
							Fluoranthene-d10 (Surr)	0.5 ppm
..MSS_RVSIM_WS1_00011	06/04/22	12/16/21	MeCl2, Lot 216834	5 mL	MSS_AB_14DIOX_00007	50 uL	1,4-Dioxane	10 ppm
					MSS_AB_B2CEE_00005	50 uL	Bis(2-chloroethyl)ether	10 ppm
					MSS_AB_HCB_00008	50 uL	Hexachlorobenzene	10 ppm
					MSS_AB_NITROS_00006	25 uL	N-Nitrosodimethylamine	10 ppm
							N-Nitrosodiphenylamine	10 ppm
					MSS_AB_PAHSTD_00009	50 uL	1-Methylnaphthalene	10 ppm
							2-Methylnaphthalene	10 ppm
							Acenaphthene	10 ppm
							Acenaphthylene	10 ppm
							Anthracene	10 ppm
							Benzo[a]anthracene	10 ppm
							Benzo[a]pyrene	10 ppm
							Benzo[b]fluoranthene	10 ppm
							Benzo[e]pyrene	10 ppm
							Benzo[g,h,i]perylene	10 ppm
							Benzo[k]fluoranthene	10 ppm
							Chrysene	10 ppm
							Dibenz(a,h)anthracene	10 ppm
							Dibenzofuran	10 ppm
							Fluoranthene	10 ppm
							Fluorene	10 ppm
							Indeno[1,2,3-cd]pyrene	10 ppm
							Naphthalene	10 ppm
							Perylene	10 ppm
							Phenanthrene	10 ppm
							Pyrene	10 ppm
					MSS_AB_QUIN_00006	50 uL	Quinoline	10 ppm
					MSS_SIM_SURR_00006	50 uL	1-Methylnaphthalene-d10 (Surr)	10 ppm
							Benzo(a)pyrene-d12 (Surr)	10 ppm
							Fluoranthene-d10 (Surr)	10 ppm
...MSS_AB_14DIOX_00007	12/16/24		Absolute, Lot 121619		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
...MSS_AB_B2CEE_00005	06/24/24		Absolute, Lot 062419		(Purchased Reagent)		Bis(2-chloroethyl)ether	1000 ug/mL
...MSS_AB_HCB_00008	06/02/24		Absolute, Lot 060519		(Purchased Reagent)		Hexachlorobenzene	1000 ug/mL
...MSS_AB_NITROS_00006	04/23/23		Absolute, Lot 042320		(Purchased Reagent)		N-Nitrosodimethylamine	2000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
...MSS_AB_PAHSTD_00009	06/05/23		Absolute, Lot 060518		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[e]pyrene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Perylene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
...MSS_AB_QUIN_00006	06/04/22		Absolute, Lot 060419		(Purchased Reagent)		Quinoline	1000 ug/mL
...MSS_SIM_SURR_00006	02/09/27		Restek, Lot A0168817		(Purchased Reagent)		1-Methylnaphthalene-d10 (Surr)	1000 ug/mL
							Benzo(a)pyrene-d12 (Surr)	1000 ug/mL
							Fluoranthene-d10 (Surr)	1000 ug/mL
MSS_RVSIM_2_00015	06/04/22	12/16/21	MeCl2, Lot 216834	1 mL	MSS_PHTH_WS2_00008	50 uL	Bis(2-ethylhexyl) phthalate	0.5 ppm
							Butylbenzylphthalate	0.5 ppm
							Di-n-butyl phthalate	0.5 ppm
							Di-n-octyl phthalate	0.5 ppm
							Diethylphthalate	0.5 ppm
							Dimethylphthalate	0.5 ppm
					MSS_RVSIM_IS_00024	10 uL	1,4-Dichlorobenzene-d4	0.25 ppm
							Acenaphthene-d10	0.25 ppm
							Chrysene-d12	0.25 ppm
							Naphthalene-d8	0.25 ppm
							Perylene-d12	0.25 ppm
							Phenanthrene-d10	0.25 ppm
					MSS_RVSIM_WS2_00009	100 uL	1,4-Dioxane	0.05 ppm
							Bis(2-chloroethyl)ether	0.05 ppm
							Hexachlorobenzene	0.05 ppm
							N-Nitrosodimethylamine	0.05 ppm
							N-Nitrosodiphenylamine	0.05 ppm
							1-Methylnaphthalene	0.05 ppm
							2-Methylnaphthalene	0.05 ppm
							Acenaphthene	0.05 ppm
							Acenaphthylene	0.05 ppm
							Anthracene	0.05 ppm
							Benzo[a]anthracene	0.05 ppm
							Benzo[a]pyrene	0.05 ppm
							Benzo[b]fluoranthene	0.05 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[e]pyrene	0.05 ppm
							Benzo[g,h,i]perylene	0.05 ppm
							Benzo[k]fluoranthene	0.05 ppm
							Chrysene	0.05 ppm
							Dibenz(a,h)anthracene	0.05 ppm
							Dibenzofuran	0.05 ppm
							Fluoranthene	0.05 ppm
							Fluorene	0.05 ppm
							Indeno[1,2,3-cd]pyrene	0.05 ppm
							Naphthalene	0.05 ppm
							Perylene	0.05 ppm
							Phenanthrene	0.05 ppm
							Pyrene	0.05 ppm
							Quinoline	0.05 ppm
							1-Methylnaphthalene-d10 (Surr)	0.05 ppm
							Benzo(a)pyrene-d12 (Surr)	0.05 ppm
							Fluoranthene-d10 (Surr)	0.05 ppm
.MSS_PHTH_WS2_00008	06/16/22	12/16/21	MeCl2, Lot 216834	2 mL	MSS_PHTH_WS1_00010	200 uL	Bis(2-ethylhexyl) phthalate	10 ppm
							Butylbenzylphthalate	10 ppm
							Di-n-butyl phthalate	10 ppm
							Di-n-octyl phthalate	10 ppm
							Diethylphthalate	10 ppm
							Dimethylphthalate	10 ppm
..MSS_PHTH_WS1_00010	06/16/22	12/16/21	MeCl2, Lot 216834	2 mL	MSS_AB_PHTHAL_00004	100 uL	Bis(2-ethylhexyl) phthalate	100 ppm
							Butylbenzylphthalate	100 ppm
							Di-n-butyl phthalate	100 ppm
							Di-n-octyl phthalate	100 ppm
							Diethylphthalate	100 ppm
							Dimethylphthalate	100 ppm
...MSS_AB_PHTHAL_00004	10/20/23	Absolute, Lot 102720			(Purchased Reagent)		Bis(2-ethylhexyl) phthalate	2000 ug/mL
							Butylbenzylphthalate	2000 ug/mL
							Di-n-butyl phthalate	2000 ug/mL
							Di-n-octyl phthalate	2000 ug/mL
							Diethylphthalate	2000 ug/mL
							Dimethylphthalate	2000 ug/mL
.MSS_RVSIM_IS_00024	06/14/22	12/14/21	MeCl2, Lot 216834	10 mL	MSS_SIMTEL_IS_00010	125 uL	1,4-Dichlorobenzene-d4	25 ppm
							Acenaphthene-d10	25 ppm
							Chrysene-d12	25 ppm
							Naphthalene-d8	25 ppm
							Perylene-d12	25 ppm
							Phenanthrene-d10	25 ppm
..MSS_SIMTEL_IS_00010	02/28/27	Restek, Lot A0170322			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MSS_RVSIM_WS2_00009	06/04/22	12/16/21	MeCl2, Lot 216834	2 mL	MSS_RVSIM_WS1_00011	100 uL	1,4-Dioxane	0.5 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethyl)ether	0.5 ppm
							Hexachlorobenzene	0.5 ppm
							N-Nitrosodimethylamine	0.5 ppm
							N-Nitrosodiphenylamine	0.5 ppm
							1-Methylnaphthalene	0.5 ppm
							2-Methylnaphthalene	0.5 ppm
							Acenaphthene	0.5 ppm
							Acenaphthylene	0.5 ppm
							Anthracene	0.5 ppm
							Benzo[a]anthracene	0.5 ppm
							Benzo[a]pyrene	0.5 ppm
							Benzo[b]fluoranthene	0.5 ppm
							Benzo[e]pyrene	0.5 ppm
							Benzo[g,h,i]perylene	0.5 ppm
							Benzo[k]fluoranthene	0.5 ppm
							Chrysene	0.5 ppm
							Dibenz(a,h)anthracene	0.5 ppm
							Dibenzofuran	0.5 ppm
							Fluoranthene	0.5 ppm
							Fluorene	0.5 ppm
							Indeno[1,2,3-cd]pyrene	0.5 ppm
							Naphthalene	0.5 ppm
							Perylene	0.5 ppm
							Phenanthrene	0.5 ppm
							Pyrene	0.5 ppm
							Quinoline	0.5 ppm
							1-Methylnaphthalene-d10 (Surr)	0.5 ppm
							Benzo(a)pyrene-d12 (Surr)	0.5 ppm
							Fluoranthene-d10 (Surr)	0.5 ppm
..MSS_RVSIM_WS1_00011	06/04/22	12/16/21	MeCl2, Lot 216834	5 mL	MSS_AB_14DIOX_00007	50 uL	1,4-Dioxane	10 ppm
					MSS_AB_B2CEE_00005	50 uL	Bis(2-chloroethyl)ether	10 ppm
					MSS_AB_HCB_00008	50 uL	Hexachlorobenzene	10 ppm
					MSS_AB_NITROS_00006	25 uL	N-Nitrosodimethylamine	10 ppm
							N-Nitrosodiphenylamine	10 ppm
					MSS_AB_PAHSTD_00009	50 uL	1-Methylnaphthalene	10 ppm
							2-Methylnaphthalene	10 ppm
							Acenaphthene	10 ppm
							Acenaphthylene	10 ppm
							Anthracene	10 ppm
							Benzo[a]anthracene	10 ppm
							Benzo[a]pyrene	10 ppm
							Benzo[b]fluoranthene	10 ppm
							Benzo[e]pyrene	10 ppm
							Benzo[g,h,i]perylene	10 ppm
							Benzo[k]fluoranthene	10 ppm
							Chrysene	10 ppm
							Dibenz(a,h)anthracene	10 ppm
							Dibenzofuran	10 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoranthene	10 ppm
							Fluorene	10 ppm
							Indeno[1,2,3-cd]pyrene	10 ppm
							Naphthalene	10 ppm
							Perylene	10 ppm
							Phenanthrene	10 ppm
							Pyrene	10 ppm
					MSS_AB_QUIN_00006	50 uL	Quinoline	10 ppm
					MSS_SIM_SURR_00006	50 uL	1-Methylnaphthalene-d10 (Surr)	10 ppm
							Benzo(a)pyrene-d12 (Surr)	10 ppm
							Fluoranthene-d10 (Surr)	10 ppm
...MSS_AB_14DIOX_00007	12/16/24		Absolute, Lot 121619		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
...MSS_AB_B2CEE_00005	06/24/24		Absolute, Lot 062419		(Purchased Reagent)		Bis(2-chloroethyl)ether	1000 ug/mL
...MSS_AB_HCB_00008	06/02/24		Absolute, Lot 060519		(Purchased Reagent)		Hexachlorobenzene	1000 ug/mL
...MSS_AB_NITROS_00006	04/23/23		Absolute, Lot 042320		(Purchased Reagent)		N-Nitrosodimethylamine	2000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
...MSS_AB_PAHSTD_00009	06/05/23		Absolute, Lot 060518		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[e]pyrene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Perylene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
...MSS_AB_QUIN_00006	06/04/22		Absolute, Lot 060419		(Purchased Reagent)		Quinoline	1000 ug/mL
...MSS_SIM_SURR_00006	02/09/27		Restek, Lot A0168817		(Purchased Reagent)		1-Methylnaphthalene-d10 (Surr)	1000 ug/mL
							Benzo(a)pyrene-d12 (Surr)	1000 ug/mL
							Fluoranthene-d10 (Surr)	1000 ug/mL
MSS_RVSIM_3_00013	06/04/22	12/16/21	MeCl2, Lot 216834	1 mL	MSS_PHTH_WS2_00008	100 uL	Bis(2-ethylhexyl) phthalate	1 ppm
							Butylbenzylphthalate	1 ppm
							Di-n-butyl phthalate	1 ppm
							Di-n-octyl phthalate	1 ppm
							Diethylphthalate	1 ppm
							Dimethylphthalate	1 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSS_RVSIM_IS_00024	10 uL	1,4-Dichlorobenzene-d4	0.25 ppm
							Acenaphthene-d10	0.25 ppm
							Chrysene-d12	0.25 ppm
							Naphthalene-d8	0.25 ppm
							Perylene-d12	0.25 ppm
							Phenanthrene-d10	0.25 ppm
					MSS_RVSIM_WS1_00011	10 uL	1,4-Dioxane	0.1 ppm
							Bis(2-chloroethyl)ether	0.1 ppm
							Hexachlorobenzene	0.1 ppm
							N-Nitrosodimethylamine	0.1 ppm
							N-Nitrosodiphenylamine	0.1 ppm
							1-Methylnaphthalene	0.1 ppm
							2-Methylnaphthalene	0.1 ppm
							Acenaphthene	0.1 ppm
							Acenaphthylene	0.1 ppm
							Anthracene	0.1 ppm
							Benzo[a]anthracene	0.1 ppm
							Benzo[a]pyrene	0.1 ppm
							Benzo[b]fluoranthene	0.1 ppm
							Benzo[e]pyrene	0.1 ppm
							Benzo[g,h,i]perylene	0.1 ppm
							Benzo[k]fluoranthene	0.1 ppm
							Chrysene	0.1 ppm
							Dibenz(a,h)anthracene	0.1 ppm
							Dibenzofuran	0.1 ppm
							Fluoranthene	0.1 ppm
							Fluorene	0.1 ppm
							Indeno[1,2,3-cd]pyrene	0.1 ppm
							Naphthalene	0.1 ppm
							Perylene	0.1 ppm
							Phenanthrene	0.1 ppm
							Pyrene	0.1 ppm
							Quinoline	0.1 ppm
							1-Methylnaphthalene-d10 (Surr)	0.1 ppm
							Benzo(a)pyrene-d12 (Surr)	0.1 ppm
							Fluoranthene-d10 (Surr)	0.1 ppm
.MSS_PHTH_WS2_00008	06/16/22	12/16/21	MeCl2, Lot 216834	2 mL	MSS_PHTH_WS1_00010	200 uL	Bis(2-ethylhexyl) phthalate	10 ppm
							Butylbenzylphthalate	10 ppm
							Di-n-butyl phthalate	10 ppm
							Di-n-octyl phthalate	10 ppm
							Diethylphthalate	10 ppm
							Dimethylphthalate	10 ppm
..MSS_PHTH_WS1_00010	06/16/22	12/16/21	MeCl2, Lot 216834	2 mL	MSS_AB_PHTHAL_00004	100 uL	Bis(2-ethylhexyl) phthalate	100 ppm
							Butylbenzylphthalate	100 ppm
							Di-n-butyl phthalate	100 ppm
							Di-n-octyl phthalate	100 ppm
							Diethylphthalate	100 ppm
							Dimethylphthalate	100 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...MSS_AB_PHTHAL_00004	10/20/23		Absolute, Lot 102720		(Purchased Reagent)		Bis(2-ethylhexyl) phthalate	2000 ug/mL
							Butylbenzylphthalate	2000 ug/mL
							Di-n-butyl phthalate	2000 ug/mL
							Di-n-octyl phthalate	2000 ug/mL
							Diethylphthalate	2000 ug/mL
							Dimethylphthalate	2000 ug/mL
.MSS_RVSIM_IS_00024	06/14/22	12/14/21	MeCl2, Lot 216834	10 mL	MSS_SIMTEL_IS_00010	125 uL	1,4-Dichlorobenzene-d4	25 ppm
							Acenaphthene-d10	25 ppm
							Chrysene-d12	25 ppm
							Naphthalene-d8	25 ppm
							Perylene-d12	25 ppm
							Phenanthrene-d10	25 ppm
..MSS_SIMTEL_IS_00010	02/28/27		Restek, Lot A0170322		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MSS_RVSIM_WS1_00011	06/04/22	12/16/21	MeCl2, Lot 216834	5 mL	MSS_AB_14DIOX_00007	50 uL	1,4-Dioxane	10 ppm
					MSS_AB_B2CEE_00005	50 uL	Bis(2-chloroethyl)ether	10 ppm
					MSS_AB_HCB_00008	50 uL	Hexachlorobenzene	10 ppm
					MSS_AB_NITROS_00006	25 uL	N-Nitrosodimethylamine	10 ppm
							N-Nitrosodiphenylamine	10 ppm
					MSS_AB_PAHSTD_00009	50 uL	1-Methylnaphthalene	10 ppm
							2-Methylnaphthalene	10 ppm
							Acenaphthene	10 ppm
							Acenaphthylene	10 ppm
							Anthracene	10 ppm
							Benzo[a]anthracene	10 ppm
							Benzo[a]pyrene	10 ppm
							Benzo[b]fluoranthene	10 ppm
							Benzo[e]pyrene	10 ppm
							Benzo[g,h,i]perylene	10 ppm
							Benzo[k]fluoranthene	10 ppm
							Chrysene	10 ppm
							Dibenz(a,h)anthracene	10 ppm
							Dibenzofuran	10 ppm
							Fluoranthene	10 ppm
							Fluorene	10 ppm
							Indeno[1,2,3-cd]pyrene	10 ppm
							Naphthalene	10 ppm
							Perylene	10 ppm
							Phenanthrene	10 ppm
							Pyrene	10 ppm
					MSS_AB_QUIN_00006	50 uL	Quinoline	10 ppm
					MSS_SIM_SURR_00006	50 uL	1-Methylnaphthalene-d10 (Surr)	10 ppm
							Benzo(a)pyrene-d12 (Surr)	10 ppm
							Fluoranthene-d10 (Surr)	10 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MSS_AB_14DIOX_00007	12/16/24		Absolute, Lot 121619		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
..MSS_AB_B2CEE_00005	06/24/24		Absolute, Lot 062419		(Purchased Reagent)		Bis(2-chloroethyl)ether	1000 ug/mL
..MSS_AB_HCB_00008	06/02/24		Absolute, Lot 060519		(Purchased Reagent)		Hexachlorobenzene	1000 ug/mL
..MSS_AB_NITROS_00006	04/23/23		Absolute, Lot 042320		(Purchased Reagent)		N-Nitrosodimethylamine	2000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
..MSS_AB_PAHSTD_00009	06/05/23		Absolute, Lot 060518		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[e]pyrene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Perylene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
..MSS_AB_QUIN_00006	06/04/22		Absolute, Lot 060419		(Purchased Reagent)		Quinoline	1000 ug/mL
..MSS_SIM_SURR_00006	02/09/27		Restek, Lot A0168817		(Purchased Reagent)		1-Methylnaphthalene-d10 (Surr)	1000 ug/mL
							Benzo(a)pyrene-d12 (Surr)	1000 ug/mL
							Fluoranthene-d10 (Surr)	1000 ug/mL
MSS_RVSIM_4_00019	06/04/22	12/16/21	MeCl2, Lot 216834	5 mL	MSS_PHTH_WS1_00010	125 uL	Bis(2-ethylhexyl) phthalate	2.5 ppm
							Butylbenzylphthalate	2.5 ppm
							Di-n-butyl phthalate	2.5 ppm
							Di-n-octyl phthalate	2.5 ppm
							Diethylphthalate	2.5 ppm
							Dimethylphthalate	2.5 ppm
					MSS_RVSIM_IS_00024	50 uL	1,4-Dichlorobenzene-d4	0.25 ppm
							Acenaphthene-d10	0.25 ppm
							Chrysene-d12	0.25 ppm
							Naphthalene-d8	0.25 ppm
							Perylene-d12	0.25 ppm
							Phenanthrene-d10	0.25 ppm
					MSS_RVSIM_WS1_00011	250 uL	1,4-Dioxane	0.5 ppm
							Bis(2-chloroethyl)ether	0.5 ppm
							Hexachlorobenzene	0.5 ppm
							N-Nitrosodimethylamine	0.5 ppm
							N-Nitrosodiphenylamine	0.5 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1-Methylnaphthalene	0.5 ppm
							2-Methylnaphthalene	0.5 ppm
							Acenaphthene	0.5 ppm
							Acenaphthylene	0.5 ppm
							Anthracene	0.5 ppm
							Benzo[a]anthracene	0.5 ppm
							Benzo[a]pyrene	0.5 ppm
							Benzo[b]fluoranthene	0.5 ppm
							Benzo[e]pyrene	0.5 ppm
							Benzo[g,h,i]perylene	0.5 ppm
							Benzo[k]fluoranthene	0.5 ppm
							Chrysene	0.5 ppm
							Dibenz(a,h)anthracene	0.5 ppm
							Dibenzofuran	0.5 ppm
							Fluoranthene	0.5 ppm
							Fluorene	0.5 ppm
							Indeno[1,2,3-cd]pyrene	0.5 ppm
							Naphthalene	0.5 ppm
							Perylene	0.5 ppm
							Phenanthrene	0.5 ppm
							Pyrene	0.5 ppm
							Quinoline	0.5 ppm
							1-Methylnaphthalene-d10 (Surr)	0.5 ppm
							Benzo(a)pyrene-d12 (Surr)	0.5 ppm
							Fluoranthene-d10 (Surr)	0.5 ppm
.MSS_PHTH_WS1_00010	06/16/22	12/16/21	MeCl2, Lot 216834	2 mL	MSS_AB_PHTHAL_00004	100 uL	Bis(2-ethylhexyl) phthalate	100 ppm
							Butylbenzylphthalate	100 ppm
							Di-n-butyl phthalate	100 ppm
							Di-n-octyl phthalate	100 ppm
							Diethylphthalate	100 ppm
							Dimethylphthalate	100 ppm
..MSS_AB_PHTHAL_00004	10/20/23		Absolute, Lot 102720		(Purchased Reagent)		Bis(2-ethylhexyl) phthalate	2000 ug/mL
							Butylbenzylphthalate	2000 ug/mL
							Di-n-butyl phthalate	2000 ug/mL
							Di-n-octyl phthalate	2000 ug/mL
							Diethylphthalate	2000 ug/mL
							Dimethylphthalate	2000 ug/mL
.MSS_RVSIM_IS_00024	06/14/22	12/14/21	MeCl2, Lot 216834	10 mL	MSS_SIMTEL_IS_00010	125 uL	1,4-Dichlorobenzene-d4	25 ppm
							Acenaphthene-d10	25 ppm
							Chrysene-d12	25 ppm
							Naphthalene-d8	25 ppm
							Perylene-d12	25 ppm
							Phenanthrene-d10	25 ppm
..MSS_SIMTEL_IS_00010	02/28/27		Restek, Lot A0170322		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene-d10	2000 ug/mL
.MSS_RVSIM_WS1_00011	06/04/22	12/16/21	MeCl2, Lot 216834	5 mL	MSS_AB_14DIOX_00007	50 uL	1,4-Dioxane	10 ppm
					MSS_AB_B2CEE_00005	50 uL	Bis(2-chloroethyl)ether	10 ppm
					MSS_AB_HCB_00008	50 uL	Hexachlorobenzene	10 ppm
					MSS_AB_NITROS_00006	25 uL	N-Nitrosodimethylamine	10 ppm
							N-Nitrosodiphenylamine	10 ppm
					MSS_AB_PAHSTD_00009	50 uL	1-Methylnaphthalene	10 ppm
							2-Methylnaphthalene	10 ppm
							Acenaphthene	10 ppm
							Acenaphthylene	10 ppm
							Anthracene	10 ppm
							Benzo[a]anthracene	10 ppm
							Benzo[a]pyrene	10 ppm
							Benzo[b]fluoranthene	10 ppm
							Benzo[e]pyrene	10 ppm
							Benzo[g,h,i]perylene	10 ppm
							Benzo[k]fluoranthene	10 ppm
							Chrysene	10 ppm
							Dibenz(a,h)anthracene	10 ppm
							Dibenzofuran	10 ppm
							Fluoranthene	10 ppm
							Fluorene	10 ppm
							Indeno[1,2,3-cd]pyrene	10 ppm
							Naphthalene	10 ppm
							Perylene	10 ppm
							Phenanthrene	10 ppm
							Pyrene	10 ppm
					MSS_AB_QUIN_00006	50 uL	Quinoline	10 ppm
					MSS_SIM_SURR_00006	50 uL	1-Methylnaphthalene-d10 (Surr)	10 ppm
							Benzo(a)pyrene-d12 (Surr)	10 ppm
							Fluoranthene-d10 (Surr)	10 ppm
..MSS_AB_14DIOX_00007	12/16/24		Absolute, Lot 121619		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
..MSS_AB_B2CEE_00005	06/24/24		Absolute, Lot 062419		(Purchased Reagent)		Bis(2-chloroethyl)ether	1000 ug/mL
..MSS_AB_HCB_00008	06/02/24		Absolute, Lot 060519		(Purchased Reagent)		Hexachlorobenzene	1000 ug/mL
..MSS_AB_NITROS_00006	04/23/23		Absolute, Lot 042320		(Purchased Reagent)		N-Nitrosodimethylamine	2000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
..MSS_AB_PAHSTD_00009	06/05/23		Absolute, Lot 060518		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[e]pyrene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Perylene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
..MSS_AB_QUIN_00006	06/04/22		Absolute, Lot 060419		(Purchased Reagent)		Quinoline	1000 ug/mL
..MSS_SIM_SURR_00006	02/09/27		Restek, Lot A0168817		(Purchased Reagent)		1-Methylnaphthalene-d10 (Surr)	1000 ug/mL
							Benzo(a)pyrene-d12 (Surr)	1000 ug/mL
							Fluoranthene-d10 (Surr)	1000 ug/mL
MSS_RVSIM_5_00014	06/04/22	12/16/21	MeCl2, Lot 216834	1 mL	MSS_PHTH_WS1_00010	50 uL	Bis(2-ethylhexyl) phthalate	5 ppm
							Butylbenzylphthalate	5 ppm
							Di-n-butyl phthalate	5 ppm
							Di-n-octyl phthalate	5 ppm
							Diethylphthalate	5 ppm
							Dimethylphthalate	5 ppm
					MSS_RVSIM_IS_00024	10 uL	1,4-Dichlorobenzene-d4	0.25 ppm
							Acenaphthene-d10	0.25 ppm
							Chrysene-d12	0.25 ppm
							Naphthalene-d8	0.25 ppm
							Perylene-d12	0.25 ppm
							Phenanthrene-d10	0.25 ppm
					MSS_RVSIM_WS1_00011	100 uL	1,4-Dioxane	1 ppm
							Bis(2-chloroethyl)ether	1 ppm
							Hexachlorobenzene	1 ppm
							N-Nitrosodimethylamine	1 ppm
							N-Nitrosodiphenylamine	1 ppm
							1-Methylnaphthalene	1 ppm
							2-Methylnaphthalene	1 ppm
							Acenaphthene	1 ppm
							Acenaphthylene	1 ppm
							Anthracene	1 ppm
							Benzo[a]anthracene	1 ppm
							Benzo[a]pyrene	1 ppm
							Benzo[b]fluoranthene	1 ppm
							Benzo[e]pyrene	1 ppm
							Benzo[g,h,i]perylene	1 ppm
							Benzo[k]fluoranthene	1 ppm
							Chrysene	1 ppm
							Dibenz(a,h)anthracene	1 ppm
							Dibenzofuran	1 ppm
							Fluoranthene	1 ppm
							Fluorene	1 ppm
							Indeno[1,2,3-cd]pyrene	1 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	1 ppm
							Perylene	1 ppm
							Phenanthrene	1 ppm
							Pyrene	1 ppm
							Quinoline	1 ppm
							1-Methylnaphthalene-d10 (Surr)	1 ppm
							Benzo(a)pyrene-d12 (Surr)	1 ppm
							Fluoranthene-d10 (Surr)	1 ppm
.MSS_PHTH_WS1_00010	06/16/22	12/16/21	MeCl2, Lot 216834	2 mL	MSS_AB_PHTHAL_00004	100 uL	Bis(2-ethylhexyl) phthalate	100 ppm
							Butylbenzylphthalate	100 ppm
							Di-n-butyl phthalate	100 ppm
							Di-n-octyl phthalate	100 ppm
							Diethylphthalate	100 ppm
							Dimethylphthalate	100 ppm
..MSS_AB_PHTHAL_00004	10/20/23		Absolute, Lot 102720		(Purchased Reagent)		Bis(2-ethylhexyl) phthalate	2000 ug/mL
							Butylbenzylphthalate	2000 ug/mL
							Di-n-butyl phthalate	2000 ug/mL
							Di-n-octyl phthalate	2000 ug/mL
							Diethylphthalate	2000 ug/mL
							Dimethylphthalate	2000 ug/mL
.MSS_RVSIM_IS_00024	06/14/22	12/14/21	MeCl2, Lot 216834	10 mL	MSS_SIMTEL_IS_00010	125 uL	1,4-Dichlorobenzene-d4	25 ppm
							Acenaphthene-d10	25 ppm
							Chrysene-d12	25 ppm
							Naphthalene-d8	25 ppm
							Perylene-d12	25 ppm
							Phenanthrene-d10	25 ppm
..MSS_SIMTEL_IS_00010	02/28/27		Restek, Lot A0170322		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MSS_RVSIM_WS1_00011	06/04/22	12/16/21	MeCl2, Lot 216834	5 mL	MSS_AB_14DIOX_00007	50 uL	1,4-Dioxane	10 ppm
					MSS_AB_B2CEE_00005	50 uL	Bis(2-chloroethyl)ether	10 ppm
					MSS_AB_HCB_00008	50 uL	Hexachlorobenzene	10 ppm
					MSS_AB_NITROS_00006	25 uL	N-Nitrosodimethylamine	10 ppm
							N-Nitrosodiphenylamine	10 ppm
					MSS_AB_PAHSTD_00009	50 uL	1-Methylnaphthalene	10 ppm
							2-Methylnaphthalene	10 ppm
							Acenaphthene	10 ppm
							Acenaphthylene	10 ppm
							Anthracene	10 ppm
							Benzo[a]anthracene	10 ppm
							Benzo[a]pyrene	10 ppm
							Benzo[b]fluoranthene	10 ppm
							Benzo[e]pyrene	10 ppm
							Benzo[g,h,i]perylene	10 ppm
							Benzo[k]fluoranthene	10 ppm

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	10 ppm
							Dibenz(a,h)anthracene	10 ppm
							Dibenzofuran	10 ppm
							Fluoranthene	10 ppm
							Fluorene	10 ppm
							Indeno[1,2,3-cd]pyrene	10 ppm
							Naphthalene	10 ppm
							Perylene	10 ppm
							Phenanthrene	10 ppm
							Pyrene	10 ppm
					MSS_AB_QUIN_00006	50 uL	Quinoline	10 ppm
					MSS_SIM_SURR_00006	50 uL	1-Methylnaphthalene-d10 (Surr)	10 ppm
							Benzo(a)pyrene-d12 (Surr)	10 ppm
							Fluoranthene-d10 (Surr)	10 ppm
..MSS_AB_14DIOX_00007	12/16/24		Absolute, Lot 121619		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
..MSS_AB_B2CEE_00005	06/24/24		Absolute, Lot 062419		(Purchased Reagent)		Bis(2-chloroethyl)ether	1000 ug/mL
..MSS_AB_HCB_00008	06/02/24		Absolute, Lot 060519		(Purchased Reagent)		Hexachlorobenzene	1000 ug/mL
..MSS_AB_NITROS_00006	04/23/23		Absolute, Lot 042320		(Purchased Reagent)		N-Nitrosodimethylamine	2000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
..MSS_AB_PAHSTD_00009	06/05/23		Absolute, Lot 060518		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[e]pyrene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Perylene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
..MSS_AB_QUIN_00006	06/04/22		Absolute, Lot 060419		(Purchased Reagent)		Quinoline	1000 ug/mL
..MSS_SIM_SURR_00006	02/09/27		Restek, Lot A0168817		(Purchased Reagent)		1-Methylnaphthalene-d10 (Surr)	1000 ug/mL
							Benzo(a)pyrene-d12 (Surr)	1000 ug/mL
							Fluoranthene-d10 (Surr)	1000 ug/mL
MSS_RVSIM_6_00012	06/04/22	12/16/21	MeCl2, Lot 216834	1 mL	MSS_PHTH_WS1_00010	100 uL	Bis(2-ethylhexyl) phthalate	10 ppm
							Butylbenzylphthalate	10 ppm
							Di-n-butyl phthalate	10 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	10 ppm
							Diethylphthalate	10 ppm
							Dimethylphthalate	10 ppm
					MSS_RVSIM_IS_00024	10 uL	1,4-Dichlorobenzene-d4	0.25 ppm
							Acenaphthene-d10	0.25 ppm
							Chrysene-d12	0.25 ppm
							Naphthalene-d8	0.25 ppm
							Perylene-d12	0.25 ppm
							Phenanthrene-d10	0.25 ppm
					MSS_RVSIM_WS1_00011	250 uL	1,4-Dioxane	2.5 ppm
							Bis(2-chloroethyl)ether	2.5 ppm
							Hexachlorobenzene	2.5 ppm
							N-Nitrosodimethylamine	2.5 ppm
							N-Nitrosodiphenylamine	2.5 ppm
							1-Methylnaphthalene	2.5 ppm
							2-Methylnaphthalene	2.5 ppm
							Acenaphthene	2.5 ppm
							Acenaphthylene	2.5 ppm
							Anthracene	2.5 ppm
							Benzo[a]anthracene	2.5 ppm
							Benzo[a]pyrene	2.5 ppm
							Benzo[b]fluoranthene	2.5 ppm
							Benzo[e]pyrene	2.5 ppm
							Benzo[g,h,i]perylene	2.5 ppm
							Benzo[k]fluoranthene	2.5 ppm
							Chrysene	2.5 ppm
							Dibenz(a,h)anthracene	2.5 ppm
							Dibenzofuran	2.5 ppm
							Fluoranthene	2.5 ppm
							Fluorene	2.5 ppm
							Indeno[1,2,3-cd]pyrene	2.5 ppm
							Naphthalene	2.5 ppm
							Perylene	2.5 ppm
							Phenanthrene	2.5 ppm
							Pyrene	2.5 ppm
							Quinoline	2.5 ppm
							1-Methylnaphthalene-d10 (Surr)	2.5 ppm
							Benzo(a)pyrene-d12 (Surr)	2.5 ppm
							Fluoranthene-d10 (Surr)	2.5 ppm
.MSS_PHTH_WS1_00010	06/16/22	12/16/21	MeCl2, Lot 216834	2 mL	MSS_AB_PHTHAL_00004	100 uL	Bis(2-ethylhexyl) phthalate	100 ppm
							Butylbenzylphthalate	100 ppm
							Di-n-butyl phthalate	100 ppm
							Di-n-octyl phthalate	100 ppm
							Diethylphthalate	100 ppm
							Dimethylphthalate	100 ppm
..MSS_AB_PHTHAL_00004	10/20/23	Absolute, Lot 102720			(Purchased Reagent)		Bis(2-ethylhexyl) phthalate	2000 ug/mL
							Butylbenzylphthalate	2000 ug/mL
							Di-n-butyl phthalate	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	2000 ug/mL
							Diethylphthalate	2000 ug/mL
							Dimethylphthalate	2000 ug/mL
.MSS_RVSIM_IS_00024	06/14/22	12/14/21	MeCl2, Lot 216834	10 mL	MSS_SIMTEL_IS_00010	125 uL	1,4-Dichlorobenzene-d4	25 ppm
							Acenaphthene-d10	25 ppm
							Chrysene-d12	25 ppm
							Naphthalene-d8	25 ppm
							Perylene-d12	25 ppm
							Phenanthrene-d10	25 ppm
..MSS_SIMTEL_IS_00010	02/28/27		Restek, Lot A0170322		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.MSS_RVSIM_WS1_00011	06/04/22	12/16/21	MeCl2, Lot 216834	5 mL	MSS_AB_14DIOX_00007	50 uL	1,4-Dioxane	10 ppm
					MSS_AB_B2CEE_00005	50 uL	Bis(2-chloroethyl)ether	10 ppm
					MSS_AB_HCB_00008	50 uL	Hexachlorobenzene	10 ppm
					MSS_AB_NITROS_00006	25 uL	N-Nitrosodimethylamine	10 ppm
							N-Nitrosodiphenylamine	10 ppm
					MSS_AB_PAHSTD_00009	50 uL	1-Methylnaphthalene	10 ppm
							2-Methylnaphthalene	10 ppm
							Acenaphthene	10 ppm
							Acenaphthylene	10 ppm
							Anthracene	10 ppm
							Benzo[a]anthracene	10 ppm
							Benzo[a]pyrene	10 ppm
							Benzo[b]fluoranthene	10 ppm
							Benzo[e]pyrene	10 ppm
							Benzo[g,h,i]perylene	10 ppm
							Benzo[k]fluoranthene	10 ppm
							Chrysene	10 ppm
							Dibenz(a,h)anthracene	10 ppm
							Dibenzofuran	10 ppm
							Fluoranthene	10 ppm
							Fluorene	10 ppm
							Indeno[1,2,3-cd]pyrene	10 ppm
							Naphthalene	10 ppm
							Perylene	10 ppm
							Phenanthrene	10 ppm
							Pyrene	10 ppm
					MSS_AB_QUIN_00006	50 uL	Quinoline	10 ppm
					MSS_SIM_SURR_00006	50 uL	1-Methylnaphthalene-d10 (Surr)	10 ppm
							Benzo(a)pyrene-d12 (Surr)	10 ppm
							Fluoranthene-d10 (Surr)	10 ppm
..MSS_AB_14DIOX_00007	12/16/24		Absolute, Lot 121619		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
..MSS_AB_B2CEE_00005	06/24/24		Absolute, Lot 062419		(Purchased Reagent)		Bis(2-chloroethyl)ether	1000 ug/mL
..MSS_AB_HCB_00008	06/02/24		Absolute, Lot 060519		(Purchased Reagent)		Hexachlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MSS_AB_NITROS_00006	04/23/23		Absolute, Lot 042320		(Purchased Reagent)		N-Nitrosodimethylamine	2000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
..MSS_AB_PAHSTD_00009	06/05/23		Absolute, Lot 060518		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[e]pyrene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Perylene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
..MSS_AB_QUIN_00006	06/04/22		Absolute, Lot 060419		(Purchased Reagent)		Quinoline	1000 ug/mL
..MSS_SIM_SURR_00006	02/09/27		Restek, Lot A0168817		(Purchased Reagent)		1-Methylnaphthalene-d10 (Surr)	1000 ug/mL
							Benzo(a)pyrene-d12 (Surr)	1000 ug/mL
							Fluoranthene-d10 (Surr)	1000 ug/mL
MSS_RVSIM_ICV_00027	05/09/22	12/06/21	MeCl2, Lot 204513	1 mL	MSS_RVSIM_IS_00023	10 uL	1,4-Dichlorobenzene-d4	0.25 ppm
							Acenaphthene-d10	0.25 ppm
							Chrysene-d12	0.25 ppm
							Naphthalene-d8	0.25 ppm
							Perylene-d12	0.25 ppm
							Phenanthrene-d10	0.25 ppm
.MSS_RVSIM_IS_00023	05/09/22	11/09/21	MeCl2, Lot 215923	10 mL	MSS_SIMTEL_IS_00010	125 uL	1,4-Dichlorobenzene-d4	25 ppm
							Acenaphthene-d10	25 ppm
							Chrysene-d12	25 ppm
							Naphthalene-d8	25 ppm
							Perylene-d12	25 ppm
							Phenanthrene-d10	25 ppm
..MSS_SIMTEL_IS_00010	02/28/27		Restek, Lot A0170322		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
MSS_RVSIM_ICV_00027	05/09/22	12/06/21	MeCl2, Lot 204513	1 mL	OP_BNA_SS_00033	200 uL	1-Methylnaphthalene-d10 (Surr)	0.2 ppm
							Benzo(a)pyrene-d12 (Surr)	0.2 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoranthene-d10 (Surr)	0.2 ppm
.OP_BNA_SS_00033	06/07/22	12/06/21	Methanol, Lot 204513	2000 mL	OP_BNA_STK_00034	2000 mL	1-Methylnaphthalene-d10 (Surr)	1000 ppb
							Benzo(a)pyrene-d12 (Surr)	1000 ppb
							Fluoranthene-d10 (Surr)	1000 ppb
..OP_BNA_STK_00034	06/07/22		Agilent, Lot 0006621044		(Purchased Reagent)		1-Methylnaphthalene-d10 (Surr)	1 ug/mL
							Benzo(a)pyrene-d12 (Surr)	1 ug/mL
							Fluoranthene-d10 (Surr)	1 ug/mL
MSS_RVSIM_ICV_00029	05/09/22	12/15/21	MeCl2, Lot 216834	2 mL	MSS_RVSIM_IS_00023	20 uL	1,4-Dichlorobenzene-d4	0.25 ppm
							Acenaphthene-d10	0.25 ppm
							Chrysene-d12	0.25 ppm
							Naphthalene-d8	0.25 ppm
							Perylene-d12	0.25 ppm
							Phenanthrene-d10	0.25 ppm
.MSS_RVSIM_IS_00023	05/09/22	11/09/21	MeCl2, Lot 215923	10 mL	MSS_SIMTEL_IS_00010	125 uL	1,4-Dichlorobenzene-d4	25 ppm
							Acenaphthene-d10	25 ppm
							Chrysene-d12	25 ppm
							Naphthalene-d8	25 ppm
							Perylene-d12	25 ppm
							Phenanthrene-d10	25 ppm
..MSS_SIMTEL_IS_00010	02/28/27		Restek, Lot A0170322		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
MSS_RVSIM_ICV_00029	05/09/22	12/15/21	MeCl2, Lot 216834	2 mL	MSS_RVSICV_WS_00006	50 uL	1,4-Dioxane	0.5 ppm
							1-Methylnaphthalene	0.5 ppm
							2-Methylnaphthalene	0.5 ppm
							Acenaphthene	0.5 ppm
							Acenaphthylene	0.5 ppm
							Anthracene	0.5 ppm
							Benzo[a]anthracene	0.5 ppm
							Benzo[a]pyrene	0.5 ppm
							Benzo[b]fluoranthene	0.5 ppm
							Benzo[g,h,i]perylene	0.5 ppm
							Benzo[k]fluoranthene	0.5 ppm
							Bis(2-chloroethyl)ether	0.5 ppm
							Bis(2-ethylhexyl) phthalate	0.5 ppm
							Butylbenzylphthalate	0.5 ppm
							Chrysene	0.5 ppm
							Di-n-butyl phthalate	0.5 ppm
							Di-n-octyl phthalate	0.5 ppm
							Dibenz(a,h)anthracene	0.5 ppm
							Dibenzofuran	0.5 ppm
							Diethylphthalate	0.5 ppm
							Dimethylphthalate	0.5 ppm
							Fluoranthene	0.5 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	0.5 ppm
							Hexachlorobenzene	0.5 ppm
							Indeno[1,2,3-cd]pyrene	0.5 ppm
							N-Nitrosodimethylamine	0.5 ppm
							Naphthalene	0.5 ppm
							Phenanthrene	0.5 ppm
							Pyrene	0.5 ppm
.MSS_RVSICV_WS_00006	05/15/22	12/15/21	MeCl2, Lot 216834	1 mL	OP_RES_LCS1_00005	20 uL	1,4-Dioxane	20 ppm
							1-Methylnaphthalene	20 ppm
							2-Methylnaphthalene	20 ppm
							Acenaphthene	20 ppm
							Acenaphthylene	20 ppm
							Anthracene	20 ppm
							Benzo[a]anthracene	20 ppm
							Benzo[a]pyrene	20 ppm
							Benzo[b]fluoranthene	20 ppm
							Benzo[g,h,i]perylene	20 ppm
							Benzo[k]fluoranthene	20 ppm
							Bis(2-chloroethyl)ether	20 ppm
							Bis(2-ethylhexyl) phthalate	20 ppm
							Butylbenzylphthalate	20 ppm
							Chrysene	20 ppm
							Di-n-butyl phthalate	20 ppm
							Di-n-octyl phthalate	20 ppm
							Dibenz(a,h)anthracene	20 ppm
							Dibenzofuran	20 ppm
							Diethylphthalate	20 ppm
							Dimethylphthalate	20 ppm
							Fluoranthene	20 ppm
							Fluorene	20 ppm
							Hexachlorobenzene	20 ppm
							Indeno[1,2,3-cd]pyrene	20 ppm
							N-Nitrosodimethylamine	20 ppm
							Naphthalene	20 ppm
							Phenanthrene	20 ppm
							Pyrene	20 ppm
..OP_RES_LCS1_00005	09/30/22		Restek, Lot A0169665		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
MSS_RVSIM_IS_00022	04/11/22	10/11/21	MeCl2, Lot 215672	10 mL	MSS_SIMTEL_IS_00010	125 uL	1,4-Dichlorobenzene-d4	25 ppm
							Acenaphthene-d10	25 ppm
							Chrysene-d12	25 ppm
							Naphthalene-d8	25 ppm
							Perylene-d12	25 ppm
							Phenanthrene-d10	25 ppm
.MSS_SIMTEL_IS_00010	02/28/27	Restek, Lot A0170322			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
MSV_4ppbEE_00304	11/30/21	11/29/21	DI Water, Lot DI 21214	1000 mL	MSV_CCV_2CEVE_00036	4 uL	2-Chloroethyl vinyl ether	0.004 ug/mL
					MSV_CCV_GASES_00112	2 uL	1,2-Dichloro-1,1,2-trifluoroethane	0.004 ug/mL
							Bromomethane	0.004 ug/mL
							Butadiene	0.004 ug/mL
							Chloroethane	0.004 ug/mL
							Chloromethane	0.004 ug/mL
							Dichlorodifluoromethane	0.004 ug/mL
							Dichlorofluoromethane	0.004 ug/mL
							Trichlorofluoromethane	0.004 ug/mL
							Vinyl chloride	0.004 ug/mL
					MSV_CCV_VOC#1_00039	4 uL	1,1,1,2-Tetrachloroethane	0.004 ug/mL
							1,1,1-Trichloroethane	0.004 ug/mL
							1,1,2,2-Tetrachloroethane	0.004 ug/mL
							1,1,2-Trichloroethane	0.004 ug/mL
							1,1-Dichloroethane	0.004 ug/mL
							1,1-Dichloroethene	0.004 ug/mL
							1,1-Dichloropropene	0.004 ug/mL

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Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichlorobenzene	0.004 ug/mL
							1,2,3-Trichloropropane	0.004 ug/mL
							1,2,4-Trichlorobenzene	0.004 ug/mL
							1,2,4-Trimethylbenzene	0.004 ug/mL
							1,2-Dibromo-3-Chloropropane	0.004 ug/mL
							1,2-Dibromoethane	0.004 ug/mL
							1,2-Dichlorobenzene	0.004 ug/mL
							1,2-Dichloroethane	0.004 ug/mL
							1,2-Dichloropropane	0.004 ug/mL
							1,3,5-Trimethylbenzene	0.004 ug/mL
							1,3-Dichlorobenzene	0.004 ug/mL
							1,3-Dichloropropane	0.004 ug/mL
							1,4-Dichlorobenzene	0.004 ug/mL
							2,2-Dichloropropane	0.004 ug/mL
							2-Chlorotoluene	0.004 ug/mL
							4-Chlorotoluene	0.004 ug/mL
							4-Isopropyltoluene	0.004 ug/mL
							Benzene	0.004 ug/mL
							Bromobenzene	0.004 ug/mL
							Bromodichloromethane	0.004 ug/mL
							Bromoform	0.004 ug/mL
							Carbon tetrachloride	0.004 ug/mL
							Chlorobenzene	0.004 ug/mL
							Chlorobromomethane	0.004 ug/mL
							Chloroform	0.004 ug/mL
							cis-1,2-Dichloroethene	0.004 ug/mL
							cis-1,3-Dichloropropene	0.004 ug/mL
							Dibromochloromethane	0.004 ug/mL
							Dibromomethane	0.004 ug/mL
							Ethylbenzene	0.004 ug/mL
							Hexachlorobutadiene	0.004 ug/mL
							Isopropylbenzene	0.004 ug/mL
							m-Xylene & p-Xylene	0.008 ug/mL
							Methylene Chloride	0.004 ug/mL
							n-Butylbenzene	0.004 ug/mL
							N-Propylbenzene	0.004 ug/mL
							Naphthalene	0.004 ug/mL
							o-Xylene	0.004 ug/mL
							sec-Butylbenzene	0.004 ug/mL
							Styrene	0.004 ug/mL
							tert-Butylbenzene	0.004 ug/mL
							Tetrachloroethene	0.004 ug/mL
							Toluene	0.004 ug/mL
							trans-1,2-Dichloroethene	0.004 ug/mL
							trans-1,3-Dichloropropene	0.004 ug/mL
							Trichloroethene	0.004 ug/mL
							1,2,3-Trimethylbenzene	0.004 ug/mL
							1,3,5-Trichlorobenzene	0.004 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Diethylbenzene	0.004 ug/mL
							1,4-Dioxane	0.2 ug/mL
							1-Chlorohexane	0.004 ug/mL
							2-Chloro-1,3-butadiene	0.004 ug/mL
							2-ethoxy-2-methyl butane	0.004 ug/mL
							2-Methyl-2-propanol	0.08 ug/mL
							2-Methylnaphthalene	0.004 ug/mL
							2-Nitropropane	0.02 ug/mL
							3-Chloro-1-propene	0.004 ug/mL
							Acrylonitrile	0.01 ug/mL
							Benzyl chloride	0.004 ug/mL
							Carbon disulfide	0.004 ug/mL
							Cyclohexane	0.004 ug/mL
							Ethyl methacrylate	0.004 ug/mL
							Freon 113	0.004 ug/mL
							Hexane	0.004 ug/mL
							Iodomethane	0.004 ug/mL
							Isobutyl alcohol	0.2 ug/mL
							Isopropyl alcohol	0.08 ug/mL
							Isopropyl ether	0.004 ug/mL
							Methacrylonitrile	0.04 ug/mL
							Methyl acetate	0.004 ug/mL
							Methyl methacrylate	0.004 ug/mL
							Methyl tertiary butyl ether	0.004 ug/mL
							Methylcyclohexane	0.004 ug/mL
							n-Butanol	0.35 ug/mL
							n-Heptane	0.004 ug/mL
							o-diethylbenzene	0.004 ug/mL
							p-Diethylbenzene	0.004 ug/mL
							Pentane	0.004 ug/mL
							Propionitrile	0.08 ug/mL
							Tert-amyl methyl ether	0.004 ug/mL
							Tert-butyl ethyl ether	0.004 ug/mL
							Tetrahydrofuran	0.02 ug/mL
							trans-1,4-Dichloro-2-butene	0.04 ug/mL
					MSV_CCV_VOC#3_00038	3.2 uL	2-Butanone	0.008 ug/mL
							2-Hexanone	0.008 ug/mL
							4-Methyl-2-pentanone	0.008 ug/mL
							Acetone	0.008 ug/mL
							Acrolein	0.040086 ug/mL
					MSV_V_EE_00006	4 uL	Ethyl ether	0.00400034 ug/mL
					MSV_V_VOA2_00116	12 uL	1,4-Dioxane	0.2 ug/mL
							2-Methyl-2-propanol	0.08 ug/mL
							Isobutyl alcohol	0.2 ug/mL
							Isopropyl alcohol	0.08 ug/mL
							Methacrylonitrile	0.04 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butanol	0.35 ug/mL
							Propionitrile	0.08 ug/mL
							trans-1,4-Dichloro-2-butene	0.04 ug/mL
					MSV_VCYC_00007	32 uL	Cyclohexanone	0.200004 ug/mL
.MSV_CCV_2CEVE_00036	12/29/21	11/29/21	Methanol, Lot EB679	5 mL	MSV_V_2CLEVE_00036	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
..MSV_V_2CLEVE_00036	04/30/24		Restek, Lot A0171422		(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
.MSV_CCV_GASES_00112	12/06/21		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_CCV_VOC#1_00039	12/29/21	11/29/21	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00037	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	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chlorobromomethane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00037	1 mL	1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,3-Diethylbenzene	1000 ug/mL
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Chloro-1,3-butadiene	1000 ug/mL
							2-ethoxy-2-methyl butane	1000 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Nitropropane	5000 ug/mL
							3-Chloro-1-propene	1000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzyl chloride	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL
							Freon 113	1000 ug/mL
							Hexane	1000 ug/mL
							Iodomethane	1000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl alcohol	5000 ug/mL
							Isopropyl ether	1000 ug/mL
							Methacrylonitrile	2500 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Methyl tertiary butyl ether	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylcyclohexane	1000 ug/mL
							n-Butanol	12500 ug/mL
							n-Heptane	1000 ug/mL
							o-diethylbenzene	1000 ug/mL
							p-Diethylbenzene	1000 ug/mL
							Pentane	1000 ug/mL
							Propionitrile	5000 ug/mL
							Tert-amyl methyl ether	1000 ug/mL
							Tert-butyl ethyl ether	1000 ug/mL
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_MegaMIX#1_00037	12/29/21		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
							1,1-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	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
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chlorobromomethane	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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00037	12/29/21		Restek, Lot A0173454		(Purchased Reagent)		1,2,3-Trimethylbenzene	5000 ug/mL
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,3-Diethylbenzene	5000 ug/mL
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-ethoxy-2-methyl butane	5000 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							2-Methylnaphthalene	5000 ug/mL
							2-Nitropropane	25000 ug/mL
							3-Chloro-1-propene	5000 ug/mL
							Acrylonitrile	12500 ug/mL
							Benzyl chloride	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Freon 113	5000 ug/mL
							Hexane	5000 ug/mL
							Iodomethane	5000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Isopropyl ether	5000 ug/mL
							Methacrylonitrile	12500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Methyl tertiary butyl ether	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
							n-Butanol	62500 ug/mL
							n-Heptane	5000 ug/mL
							o-diethylbenzene	5000 ug/mL
							p-Diethylbenzene	5000 ug/mL
							Pentane	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00038	12/25/21	11/29/21	Methanol, Lot EB679	5 mL	MSV_V_Ketones_00036	1 mL	2-Butanone	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone	2500 ug/mL
							Acetone	2500 ug/mL
					MSV_VACR_00020	0.5 mL	Acrolein	12526.9 ug/mL
..MSV_V_Ketones_00036	01/31/24	Restek, Lot A0168313			(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
..MSV_VACR_00020	12/25/21	10/26/21	Methanol, Lot EB679	10 mL	MSV_VACR_STK_00022	9.252 mL	Acrolein	125269 ug/mL
...MSV_VACR_STK_00022	12/25/21	10/26/21	Methanol, Lot EB679	10 mL	MSV_ACROLEIN_00015	1.445 g	Acrolein	135397 ug/mL
....MSV_ACROLEIN_00015	12/31/21	Chem Service, Lot 12255200			(Purchased Reagent)		Acrolein	0.937 g/g
.MSV_V_EE_00006	11/30/21	10/12/21	Methanol, Lot EB679	100 mL	MSV_EE_MISCSK_00007	2.071 mL	Ethyl ether	1000.09 ug/mL
..MSV_EE_MISCSK_00007	11/30/21	10/12/21	Methanol, Lot EB679	10 mL	MSV_EE_Neat_00005	0.4829 g	Ethyl ether	48290 ug/mL
...MSV_EE_Neat_00005	11/30/21	Chem Service, Lot 11028800			(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_VOA2_00116	12/29/21	11/29/21	Methanol, Lot EB679	5 mL	MSV_V#2B_00245	1 mL	1,4-Dioxane	12500 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl alcohol	5000 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_00245	04/30/22	Restek, Lot A0171518			(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl alcohol	25000 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_VCYC_00007	02/04/22	08/04/21	50/50 MeOH/Water, Lot DZ644	200 mL	MSV_VCYC_STK_00006	6.366 mL	Cyclohexanone	6250.14 ug/mL
..MSV_VCYC_STK_00006	02/04/22	08/04/21	50/50 MeOH/Water, Lot DZ644	10 mL	MSV_CYC_00005	1.9636 g	Cyclohexanone	196360 ug/mL
...MSV_CYC_00005	05/31/23	Chem Service, Lot 11845600			(Purchased Reagent)		Cyclohexanone	1 g/g
MSV_CCV_2CEVE_00036	12/29/21	11/29/21	Methanol, Lot EB679	5 mL	MSV_V_2CLEVE_00036	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
.MSV_V_2CLEVE_00036	04/30/24	Restek, Lot A0171422			(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
MSV_CCV_GASES_00111	11/29/21	Restek, Lot A0172364			(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL
							Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_CCV_GASES_00158	03/21/22		Restek, Lot A0172364		(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_CCV_VOC#1_00039	12/29/21	11/29/21	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00037	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	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chlorobromomethane	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00037	1 mL	1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,3-Diethylbenzene	1000 ug/mL
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Chloro-1,3-butadiene	1000 ug/mL
							2-ethoxy-2-methyl butane	1000 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Nitropropane	5000 ug/mL
							3-Chloro-1-propene	1000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzyl chloride	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL
							Freon 113	1000 ug/mL
							Hexane	1000 ug/mL
							Iodomethane	1000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl alcohol	5000 ug/mL
							Isopropyl ether	1000 ug/mL
							Methacrylonitrile	2500 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Methyl tertiary butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							n-Butanol	12500 ug/mL
							n-Heptane	1000 ug/mL
							o-diethylbenzene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							p-Diethylbenzene	1000 ug/mL
							Pentane	1000 ug/mL
							Propionitrile	5000 ug/mL
							Tert-amyl methyl ether	1000 ug/mL
							Tert-butyl ethyl ether	1000 ug/mL
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
.MSV_MegaMIX#1_00037	12/29/21		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
							1,1-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	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
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chlorobromomethane	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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00037	12/29/21		Restek, Lot A0173454		(Purchased Reagent)		1,2,3-Trimethylbenzene	5000 ug/mL
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,3-Diethylbenzene	5000 ug/mL
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-ethoxy-2-methyl butane	5000 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							2-Methylnaphthalene	5000 ug/mL
							2-Nitropropane	25000 ug/mL
							3-Chloro-1-propene	5000 ug/mL
							Acrylonitrile	12500 ug/mL
							Benzyl chloride	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Freon 113	5000 ug/mL
							Hexane	5000 ug/mL
							Iodomethane	5000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Isopropyl ether	5000 ug/mL
							Methacrylonitrile	12500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Methyl tertiary butyl ether	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
							n-Butanol	62500 ug/mL
							n-Heptane	5000 ug/mL
							o-diethylbenzene	5000 ug/mL
							p-Diethylbenzene	5000 ug/mL
							Pentane	5000 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	5000 ug/mL
							Tetrahydrofuran	25000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_CCV_VOC#1_00056	04/13/22	03/14/22	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00055	1 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
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	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
							Isopropylbenzene	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_00054	1 mL	Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Freon 113	1000 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl tertiary butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
.MSV_MegaMIX#1_00055	04/13/22		Restek, Lot A0171634		(Purchased Reagent)		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
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane	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
							1,4-Dichlorobenzene	5000 ug/mL
							Benzene	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
							Isopropylbenzene	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_00054	04/13/22		Restek, Lot A0173454		(Purchased Reagent)		Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Freon 113	5000 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tertiary butyl ether	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
MSV_CCV_VOC#3_00038	12/25/21	11/29/21	Methanol, Lot EB679	5 mL	MSV_V_Ketones_00036	1 mL	2-Butanone	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone	2500 ug/mL
							Acetone	2500 ug/mL
					MSV_VACR_00020	0.5 mL	Acrolein	12526.9 ug/mL
.MSV_V_Ketones_00036	01/31/24		Restek, Lot A0168313		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
.MSV_VACR_00020	12/25/21	10/26/21	Methanol, Lot EB679	10 mL	MSV_VACR_STK_00022	9.252 mL	Acrolein	125269 ug/mL
..MSV_VACR_STK_00022	12/25/21	10/26/21	Methanol, Lot EB679	10 mL	MSV_ACROLEIN_00015	1.445 g	Acrolein	135397 ug/mL
...MSV_ACROLEIN_00015	12/31/21		Chem Service, Lot 12255200		(Purchased Reagent)		Acrolein	0.937 g/g
MSV_CCV_VOC#3_00055	04/09/22	03/14/22	Methanol, Lot EB679	5 mL	MSV_V_Ketones_00053	1 mL	2-Butanone	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone	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		
							Acetone	2500 ug/mL
.MSV_V_Ketones_00053	01/31/24		Restek, Lot A0174287		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
MSV_HP23_ISSS_00007	05/23/22	11/23/21	Methanol, Lot EB679	10 mL	MSV_8260_SS_00528	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_00383	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_00528	04/30/24		Restek, Lot A0171410		(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_00383	08/31/24		Restek, Lot A0175453		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_LCS_Gases_00076	03/21/22	03/14/22	Methanol, Lot EB679	25 mL	MSV_QC_2K_GAS_00079	0.5 mL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Dichlorodifluoromethane	40 ug/mL
							Trichlorofluoromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00079	03/21/22		Restek, Lot A0172021		(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_LCS_VOC#1_00029	12/29/21	11/29/21	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00036	1 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
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2,4-Trimethylbenzene	40 ug/mL
							1,2-Dibromo-3-Chloropropane	40 ug/mL
							1,2-Dibromoethane	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							1,3,5-Trimethylbenzene	40 ug/mL
							1,3-Dichlorobenzene	40 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		
							1,4-Dichlorobenzene	40 ug/mL
							Benzene	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
							Isopropylbenzene	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_00037	1 mL	Carbon disulfide	40 ug/mL
							Cyclohexane	40 ug/mL
							Freon 113	40 ug/mL
							Methyl acetate	40 ug/mL
							Methyl tertiary butyl ether	40 ug/mL
							Methylcyclohexane	40 ug/mL
					MSV_Q_Ketones_00036	1 mL	2-Butanone	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone	500 ug/mL
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00036	04/30/24		Restek, Lot A0171815		(Purchased Reagent)		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
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	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		
							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
							Isopropylbenzene	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_00037	04/30/24		Restek, Lot A0171837		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Freon 113	1000 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl tertiary butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
.MSV_Q_Ketones_00036	01/31/24		Restek, Lot A0167987		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LCS_VOC#1_00044	04/13/22	03/14/22	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00048	1 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
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2,4-Trimethylbenzene	40 ug/mL
							1,2-Dibromo-3-Chloropropane	40 ug/mL
							1,2-Dibromoethane	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							1,3,5-Trimethylbenzene	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							Benzene	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

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromochloromethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Isopropylbenzene	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_00054	1 mL	Carbon disulfide	40 ug/mL
							Cyclohexane	40 ug/mL
							Freon 113	40 ug/mL
							Methyl acetate	40 ug/mL
							Methyl tertiary butyl ether	40 ug/mL
							Methylcyclohexane	40 ug/mL
					MSV_Q_Ketones_00053	1 mL	2-Butanone	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone	500 ug/mL
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00048	04/30/24		Restek, Lot A0171815		(Purchased Reagent)		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
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	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
							Isopropylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

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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		
							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_00054	04/30/24		Restek, Lot A0171837		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Freon 113	1000 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl tertiary butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
.MSV_Q_Ketones_00053	01/31/24		Restek, Lot A0167987		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
MSV_QC_2K_GAS_00060	11/29/21		Restek, Lot A0172021		(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_00006							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							divinyl benzene	
							Tentatively Identified Compound	
							Total BTEX	
							Total Diethylbenzene	
							Xylenes, Total	
					MSV_VBFB_STK_00006	0.129 mL	BFB	49.8611 ug/mL
.MSV_VBFB_STK_00006	01/07/22	07/07/21	Methanol, Lot DZ644	10 mL	MSV_4BFB_NEAT_00006	0.9663 g	BFB	96630 ug/mL
..MSV_4BFB_NEAT_00006	02/28/25		Chem Service, Lot 10727100		(Purchased Reagent)		BFB	1 g/g
MSV_V_BFB_00007							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							divinyl benzene	
							Tentatively Identified Compound	
							Total BTEX	
							Total Diethylbenzene	
							Xylenes, Total	
					MSV_VBFB_STK_00007	0.116 mL	BFB	50.0099 ug/mL
.MSV_VBFB_STK_00007	06/29/22	12/29/21	Methanol, Lot EB679	10 mL	MSV_4BFB_NEAT_00005	1.0778 g	BFB	107780 ug/mL
..MSV_4BFB_NEAT_00005	02/28/25		Chem Service, Lot 11130200		(Purchased Reagent)		BFB	1 g/g
MSV_V_EE_00006	11/30/21	10/12/21	Methanol, Lot EB679	100 mL	MSV_EE_MISCSK_00007	2.071 mL	Ethyl ether	1000.09 ug/mL
.MSV_EE_MISCSK_00007	11/30/21	10/12/21	Methanol, Lot EB679	10 mL	MSV_EE_Neat_00005	0.4829 g	Ethyl ether	48290 ug/mL
..MSV_EE_Neat_00005	11/30/21		Chem Service, Lot 11028800		(Purchased Reagent)		Ethyl ether	1 g/g

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_V_VOA2_00116	12/29/21	11/29/21	Methanol, Lot EB679	5 mL	MSV_V#2B_00245	1 mL	1,4-Dioxane	12500 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl alcohol	5000 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_00245	04/30/22		Restek, Lot A0171518		(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl alcohol	25000 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_VCYC_00007	02/04/22	08/04/21	50/50 MeOH/Water, Lot DZ644	200 mL	MSV_VCYC_STK_00006	6.366 mL	Cyclohexanone	6250.14 ug/mL
.MSV_VCYC_STK_00006	02/04/22	08/04/21	50/50 MeOH/Water, Lot DZ644	10 mL	MSV_CYC_00005	1.9636 g	Cyclohexanone	196360 ug/mL
..MSV_CYC_00005	05/31/23		Chem Service, Lot 11845600		(Purchased Reagent)		Cyclohexanone	1 g/g
OP_MINIBNA_SS_00056	07/07/22	02/26/22	Methanol, Lot 214330	1000 mL	OP_BNA_SS_00034	250 mL	1-Methylnaphthalene-d10 (Surr)	250 ppb
							2,4,6-Tribromophenol (Surr)	50150 ppb
							2-Fluorobiphenyl (Surr)	25100 ppb
							2-Fluorophenol (Surr)	50150 ppb
							Benzo(a)pyrene-d12 (Surr)	250 ppb
							Fluoranthene-d10 (Surr)	250 ppb
							Nitrobenzene-d5 (Surr)	25050 ppb
							p-Terphenyl-d14 (Surr)	25100 ppb
							Phenol-d5 (Surr)	50100 ppb
.OP_BNA_SS_00034	07/07/22	01/06/22	Methanol, Lot 214330	2000 mL	OP_BNA_STK_00035	2000 mL	1-Methylnaphthalene-d10 (Surr)	1000 ppb
							2,4,6-Tribromophenol (Surr)	200600 ppb
							2-Fluorobiphenyl (Surr)	100400 ppb
							2-Fluorophenol (Surr)	200600 ppb
							Benzo(a)pyrene-d12 (Surr)	1000 ppb
							Fluoranthene-d10 (Surr)	1000 ppb
							Nitrobenzene-d5 (Surr)	100200 ppb
							p-Terphenyl-d14 (Surr)	100400 ppb
							Phenol-d5 (Surr)	200400 ppb
..OP_BNA_STK_00035	07/07/22		Agilent, Lot 0006621044		(Purchased Reagent)		1-Methylnaphthalene-d10 (Surr)	1 ug/mL
							2,4,6-Tribromophenol (Surr)	200.6 ug/mL
							2-Fluorobiphenyl (Surr)	100.4 ug/mL
							2-Fluorophenol (Surr)	200.6 ug/mL
							Benzo(a)pyrene-d12 (Surr)	1 ug/mL
							Fluoranthene-d10 (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	100.2 ug/mL
							p-Terphenyl-d14 (Surr)	100.4 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol-d5 (Surr)	200.4 ug/mL
OP_MINLCS1_MS_00107	04/03/22	03/02/22	ACETONE, Lot EB903-US	100 mL	OP_LCS1_MS_00040	25 mL	1,1'-Biphenyl	12500 ppb
							1,2,4,5-Tetrachlorobenzene	12500 ppb
							1,2,4-Trichlorobenzene	12500 ppb
							1,2-Dichlorobenzene	12500 ppb
							1,2-Diphenylhydrazine	12500 ppb
							1,3-Dichlorobenzene	12500 ppb
							1,3-Dinitrobenzene	12500 ppb
							1,4-Dichlorobenzene	12500 ppb
							1,4-Dioxane	12500 ppb
							1-Methylnaphthalene	12500 ppb
							2,2'-oxybis[1-chloropropane]	12500 ppb
							2,3,4,6-Tetrachlorophenol	12500 ppb
							2,4,5-Trichlorophenol	12500 ppb
							2,4,6-Trichlorophenol	12500 ppb
							2,4-Dichlorophenol	12500 ppb
							2,4-Dimethylphenol	12500 ppb
							2,4-Dinitrophenol	25000 ppb
							2,4-Dinitrotoluene	12500 ppb
							2,6-Dichlorophenol	12500 ppb
							2,6-Dinitrotoluene	12500 ppb
							2-Chloronaphthalene	12500 ppb
							2-Chlorophenol	12500 ppb
							2-Methylnaphthalene	12500 ppb
							2-Methylphenol	12500 ppb
							2-Nitroaniline	12500 ppb
							2-Nitrophenol	12500 ppb
							3-Nitroaniline	12500 ppb
							4,6-Dinitro-2-methylphenol	25000 ppb
							4-Bromophenyl phenyl ether	12500 ppb
							4-Chloro-3-methylphenol	12500 ppb
							4-Chloroaniline	12500 ppb
							4-Chlorophenyl phenyl ether	12500 ppb
							4-Methylphenol	12500 ppb
							4-Nitroaniline	12500 ppb
							4-Nitrophenol	25000 ppb
							Acenaphthene	12500 ppb
							Acenaphthylene	12500 ppb
							Acetophenone	12500 ppb
							Aniline	12500 ppb
							Anthracene	12500 ppb
							Benzo[a]anthracene	12500 ppb
							Benzo[a]pyrene	12500 ppb
							Benzo[b]fluoranthene	12500 ppb
							Benzo[g,h,i]perylene	12500 ppb
							Benzo[k]fluoranthene	12500 ppb
							Benzyl alcohol	12500 ppb

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Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethoxy)methane	12500 ppb
							Bis(2-chloroethyl)ether	12500 ppb
							Bis(2-ethylhexyl) phthalate	12500 ppb
							Butylbenzylphthalate	12500 ppb
							Carbazole	12500 ppb
							Chrysene	12500 ppb
							Di-n-butyl phthalate	12500 ppb
							Di-n-octyl phthalate	12500 ppb
							Dibenz(a,h)anthracene	12500 ppb
							Dibenzofuran	12500 ppb
							Diethylphthalate	12500 ppb
							Dimethylphthalate	12500 ppb
							Fluoranthene	12500 ppb
							Fluorene	12500 ppb
							Hexachlorobenzene	12500 ppb
							Hexachlorobutadiene	12500 ppb
							Hexachlorocyclopentadiene	12500 ppb
							Hexachloroethane	12500 ppb
							Hexadecane	12500 ppb
							Indeno[1,2,3-cd]pyrene	12500 ppb
							Isophorone	12500 ppb
							n-Decane	12500 ppb
							N-Nitrosodi-n-propylamine	12500 ppb
							N-Nitrosodimethylamine	12500 ppb
							N-Nitrosodiphenylamine	10625 ppb
							n-Octadecane	12500 ppb
							Naphthalene	12500 ppb
							Nitrobenzene	12500 ppb
							Pentachlorophenol	25000 ppb
							Phenanthrene	12500 ppb
							Phenol	12500 ppb
							Pyrene	12500 ppb
							Pyridine	25000 ppb
							3,3'-Dichlorobenzidine	25000 ppb
							Benzidine	25000 ppb
							Benzoic acid	12500 ppb
							Indene	12500 ppb
							1-Methylphenanthrene	12500 ppb
							2,3-Dichlorobenzenamine	12500 ppb
							Alpha Methyl Styrene	12500 ppb
							Alpha-Terpineol	12500 ppb
							Dimethylformamide	12500 ppb
							icosane	12500 ppb
							n-Docosane	12500 ppb
							n-Tetradecane	12500 ppb
							Octachlorostyrene	12500 ppb
							Phenyl ether	12500 ppb
.OP_LCS1_MS_00040	04/03/22	03/02/22	Acetone, Lot EB903-US	400 mL	OP_RES_LCS1_00007	20 mL	1,1'-Biphenyl	50000 ppb

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4,5-Tetrachlorobenzene	50000 ppb
							1,2,4-Trichlorobenzene	50000 ppb
							1,2-Dichlorobenzene	50000 ppb
							1,2-Diphenylhydrazine	50000 ppb
							1,3-Dichlorobenzene	50000 ppb
							1,3-Dinitrobenzene	50000 ppb
							1,4-Dichlorobenzene	50000 ppb
							1,4-Dioxane	50000 ppb
							1-Methylnaphthalene	50000 ppb
							2,2'-oxybis[1-chloropropane]	50000 ppb
							2,3,4,6-Tetrachlorophenol	50000 ppb
							2,4,5-Trichlorophenol	50000 ppb
							2,4,6-Trichlorophenol	50000 ppb
							2,4-Dichlorophenol	50000 ppb
							2,4-Dimethylphenol	50000 ppb
							2,4-Dinitrophenol	100000 ppb
							2,4-Dinitrotoluene	50000 ppb
							2,6-Dichlorophenol	50000 ppb
							2,6-Dinitrotoluene	50000 ppb
							2-Chloronaphthalene	50000 ppb
							2-Chlorophenol	50000 ppb
							2-Methylnaphthalene	50000 ppb
							2-Methylphenol	50000 ppb
							2-Nitroaniline	50000 ppb
							2-Nitrophenol	50000 ppb
							3-Nitroaniline	50000 ppb
							4,6-Dinitro-2-methylphenol	100000 ppb
							4-Bromophenyl phenyl ether	50000 ppb
							4-Chloro-3-methylphenol	50000 ppb
							4-Chloroaniline	50000 ppb
							4-Chlorophenyl phenyl ether	50000 ppb
							4-Methylphenol	50000 ppb
							4-Nitroaniline	50000 ppb
							4-Nitrophenol	100000 ppb
							Acenaphthene	50000 ppb
							Acenaphthylene	50000 ppb
							Acetophenone	50000 ppb
							Aniline	50000 ppb
							Anthracene	50000 ppb
							Benzo[a]anthracene	50000 ppb
							Benzo[a]pyrene	50000 ppb
							Benzo[b]fluoranthene	50000 ppb
							Benzo[g,h,i]perylene	50000 ppb
							Benzo[k]fluoranthene	50000 ppb
							Benzyl alcohol	50000 ppb
							Bis(2-chloroethoxy)methane	50000 ppb
							Bis(2-chloroethyl)ether	50000 ppb
							Bis(2-ethylhexyl) phthalate	50000 ppb

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butylbenzylphthalate	50000 ppb
							Carbazole	50000 ppb
							Chrysene	50000 ppb
							Di-n-butyl phthalate	50000 ppb
							Di-n-octyl phthalate	50000 ppb
							Dibenz(a,h)anthracene	50000 ppb
							Dibenzofuran	50000 ppb
							Diethylphthalate	50000 ppb
							Dimethylphthalate	50000 ppb
							Fluoranthene	50000 ppb
							Fluorene	50000 ppb
							Hexachlorobenzene	50000 ppb
							Hexachlorobutadiene	50000 ppb
							Hexachlorocyclopentadiene	50000 ppb
							Hexachloroethane	50000 ppb
							Hexadecane	50000 ppb
							Indeno[1,2,3-cd]pyrene	50000 ppb
							Isophorone	50000 ppb
							n-Decane	50000 ppb
							N-Nitrosodi-n-propylamine	50000 ppb
							N-Nitrosodimethylamine	50000 ppb
							N-Nitrosodiphenylamine	42500 ppb
							n-Octadecane	50000 ppb
							Naphthalene	50000 ppb
							Nitrobenzene	50000 ppb
							Pentachlorophenol	100000 ppb
							Phenanthrene	50000 ppb
							Phenol	50000 ppb
							Pyrene	50000 ppb
							Pyridine	100000 ppb
					OP_RES_LCS2_00006	20 mL	3,3'-Dichlorobenzidine	100000 ppb
							Benzidine	100000 ppb
					OP_RES_LCS3_00004	10 mL	Benzoic acid	50000 ppb
							Indene	50000 ppb
					OP_RES_LCSadd_00001	10 mL	1-Methylphenanthrene	50000 ppb
							2,3-Dichlorobenzenamine	50000 ppb
							Alpha Methyl Styrene	50000 ppb
							Alpha-Terpineol	50000 ppb
							Dimethylformamide	50000 ppb
							icosane	50000 ppb
							n-Docosane	50000 ppb
							n-Tetradecane	50000 ppb
							Octachlorostyrene	50000 ppb
							Phenyl ether	50000 ppb
..OP_RES_LCS1_00007	02/28/23		Restek, Lot A0175066		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..OP_RES_LCS2_00006	02/28/23		Restek, Lot A0175898		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..OP_RES_LCS3_00004	12/31/22		Restek, Lot A0173787		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..OP_RES_LCSadd_00001	12/31/23		Restek, Lot A0166837		(Purchased Reagent)		1-Methylphenanthrene	2000 ug/mL
							2,3-Dichlorobenzenamine	2000 ug/mL
							Alpha Methyl Styrene	2000 ug/mL
							Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							icosane	2000 ug/mL
							n-Docosane	2000 ug/mL
							n-Tetradecane	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
OP_MINLCS2_MS_00061	03/12/22	03/03/22	ACETONE, Lot EB903-US	100 mL	OP_LCS 2_MS_00029	25 mL	Atrazine	12500 ppb
							Benzaldehyde	12500 ppb
							Caprolactam	12500 ppb
.OP_LCS 2_MS_00029	03/12/22	02/11/22	ACETONE, Lot EB903-US	400 mL	OP_LCSmix2stk_00004	10 mL	Atrazine	50000 ppb
							Benzaldehyde	50000 ppb
							Caprolactam	50000 ppb

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..OP_LCSmix2stk_00004	11/30/22		Restek, Lot A0172244		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
OP_SIMLCS_MS_00060	04/03/22	03/08/22	ACETONE, Lot EB903-US	100 mL	OP_B(E)P_STK_00009	0.1 mL	Benzo[e]pyrene	1078 ppb
					OP_LCS1_MS_00040	2 mL	1,1'-Biphenyl	1000 ppb
							1,2,4,5-Tetrachlorobenzene	1000 ppb
							1,2,4-Trichlorobenzene	1000 ppb
							1,2-Dichlorobenzene	1000 ppb
							1,2-Diphenylhydrazine	1000 ppb
							1,3-Dichlorobenzene	1000 ppb
							1,3-Dinitrobenzene	1000 ppb
							1,4-Dichlorobenzene	1000 ppb
							1,4-Dioxane	1000 ppb
							1-Methylnaphthalene	1000 ppb
							2,2'-oxybis[1-chloropropane]	1000 ppb
							2,3,4,6-Tetrachlorophenol	1000 ppb
							2,4,5-Trichlorophenol	1000 ppb
							2,4,6-Trichlorophenol	1000 ppb
							2,4-Dichlorophenol	1000 ppb
							2,4-Dimethylphenol	1000 ppb
							2,4-Dinitrophenol	2000 ppb
							2,4-Dinitrotoluene	1000 ppb
							2,6-Dichlorophenol	1000 ppb
							2,6-Dinitrotoluene	1000 ppb
							2-Chloronaphthalene	1000 ppb
							2-Chlorophenol	1000 ppb
							2-Methylnaphthalene	1000 ppb
							2-Methylphenol	1000 ppb
							2-Nitroaniline	1000 ppb
							2-Nitrophenol	1000 ppb
							3-Nitroaniline	1000 ppb
							4,6-Dinitro-2-methylphenol	2000 ppb
							4-Bromophenyl phenyl ether	1000 ppb
							4-Chloro-3-methylphenol	1000 ppb
							4-Chloroaniline	1000 ppb
							4-Chlorophenyl phenyl ether	1000 ppb
							4-Methylphenol	1000 ppb
							4-Nitroaniline	1000 ppb
							4-Nitrophenol	2000 ppb
							Acenaphthene	1000 ppb
							Acenaphthylene	1000 ppb
							Acetophenone	1000 ppb
							Aniline	1000 ppb
							Anthracene	1000 ppb
							Benzo[a]anthracene	1000 ppb
							Benzo[a]pyrene	1000 ppb
							Benzo[b]fluoranthene	1000 ppb

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[g,h,i]perylene	1000 ppb
							Benzo[k]fluoranthene	1000 ppb
							Benzyl alcohol	1000 ppb
							Bis(2-chloroethoxy)methane	1000 ppb
							Bis(2-chloroethyl)ether	1000 ppb
							Bis(2-ethylhexyl) phthalate	1000 ppb
							Butylbenzylphthalate	1000 ppb
							Carbazole	1000 ppb
							Chrysene	1000 ppb
							Di-n-butyl phthalate	1000 ppb
							Di-n-octyl phthalate	1000 ppb
							Dibenz(a,h)anthracene	1000 ppb
							Dibenzofuran	1000 ppb
							Diethylphthalate	1000 ppb
							Dimethylphthalate	1000 ppb
							Fluoranthene	1000 ppb
							Fluorene	1000 ppb
							Hexachlorobenzene	1000 ppb
							Hexachlorobutadiene	1000 ppb
							Hexachlorocyclopentadiene	1000 ppb
							Hexachloroethane	1000 ppb
							Hexadecane	1000 ppb
							Indeno[1,2,3-cd]pyrene	1000 ppb
							Isophorone	1000 ppb
							n-Decane	1000 ppb
							N-Nitrosodi-n-propylamine	1000 ppb
							N-Nitrosodimethylamine	1000 ppb
							N-Nitrosodiphenylamine	850 ppb
							n-Octadecane	1000 ppb
							Naphthalene	1000 ppb
							Nitrobenzene	1000 ppb
							Pentachlorophenol	2000 ppb
							Phenanthrene	1000 ppb
							Phenol	1000 ppb
							Pyrene	1000 ppb
							Pyridine	2000 ppb
							3,3'-Dichlorobenzidine	2000 ppb
							Benzidine	2000 ppb
							Benzoic acid	1000 ppb
							Indene	1000 ppb
							1-Methylphenanthrene	1000 ppb
							2,3-Dichlorobenzenamine	1000 ppb
							Alpha Methyl Styrene	1000 ppb
							Alpha-Terpineol	1000 ppb
							Dimethylformamide	1000 ppb
							icosane	1000 ppb
							n-Docosane	1000 ppb
							n-Tetradecane	1000 ppb

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Octachlorostyrene	1000 ppb
							Phenyl ether	1000 ppb
					OP_PERYL_STK_00002	0.05 mL	Perylene	1000.15 ppb
.OP_B(E)P_STK_00009	07/07/22	07/06/21	MeCl2, Lot 212643	10 mL	OP_BEP_NEAT_00002	0.011 g	Benzo[e]pyrene	1078000 ppb
..OP_BEP_NEAT_00002	06/15/23		ALDRICH, Lot MKBX6087V		(Purchased Reagent)		Benzo[e]pyrene	98 %
.OP_LCS1_MS_00040	04/03/22	03/02/22	Acetone, Lot EB903-US	400 mL	OP_RES_LCS1_00007	20 mL	1,1'-Biphenyl	50000 ppb
							1,2,4,5-Tetrachlorobenzene	50000 ppb
							1,2,4-Trichlorobenzene	50000 ppb
							1,2-Dichlorobenzene	50000 ppb
							1,2-Diphenylhydrazine	50000 ppb
							1,3-Dichlorobenzene	50000 ppb
							1,3-Dinitrobenzene	50000 ppb
							1,4-Dichlorobenzene	50000 ppb
							1,4-Dioxane	50000 ppb
							1-Methylnaphthalene	50000 ppb
							2,2'-oxybis[1-chloropropane]	50000 ppb
							2,3,4,6-Tetrachlorophenol	50000 ppb
							2,4,5-Trichlorophenol	50000 ppb
							2,4,6-Trichlorophenol	50000 ppb
							2,4-Dichlorophenol	50000 ppb
							2,4-Dimethylphenol	50000 ppb
							2,4-Dinitrophenol	100000 ppb
							2,4-Dinitrotoluene	50000 ppb
							2,6-Dichlorophenol	50000 ppb
							2,6-Dinitrotoluene	50000 ppb
							2-Chloronaphthalene	50000 ppb
							2-Chlorophenol	50000 ppb
							2-Methylnaphthalene	50000 ppb
							2-Methylphenol	50000 ppb
							2-Nitroaniline	50000 ppb
							2-Nitrophenol	50000 ppb
							3-Nitroaniline	50000 ppb
							4,6-Dinitro-2-methylphenol	100000 ppb
							4-Bromophenyl phenyl ether	50000 ppb
							4-Chloro-3-methylphenol	50000 ppb
							4-Chloroaniline	50000 ppb
							4-Chlorophenyl phenyl ether	50000 ppb
							4-Methylphenol	50000 ppb
							4-Nitroaniline	50000 ppb
							4-Nitrophenol	100000 ppb
							Acenaphthene	50000 ppb
							Acenaphthylene	50000 ppb
							Acetophenone	50000 ppb
							Aniline	50000 ppb
							Anthracene	50000 ppb
							Benzo[a]anthracene	50000 ppb
							Benzo[a]pyrene	50000 ppb
							Benzo[b]fluoranthene	50000 ppb

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[g,h,i]perylene	50000 ppb
							Benzo[k]fluoranthene	50000 ppb
							Benzyl alcohol	50000 ppb
							Bis(2-chloroethoxy)methane	50000 ppb
							Bis(2-chloroethyl)ether	50000 ppb
							Bis(2-ethylhexyl) phthalate	50000 ppb
							Butylbenzylphthalate	50000 ppb
							Carbazole	50000 ppb
							Chrysene	50000 ppb
							Di-n-butyl phthalate	50000 ppb
							Di-n-octyl phthalate	50000 ppb
							Dibenz(a,h)anthracene	50000 ppb
							Dibenzofuran	50000 ppb
							Diethylphthalate	50000 ppb
							Dimethylphthalate	50000 ppb
							Fluoranthene	50000 ppb
							Fluorene	50000 ppb
							Hexachlorobenzene	50000 ppb
							Hexachlorobutadiene	50000 ppb
							Hexachlorocyclopentadiene	50000 ppb
							Hexachloroethane	50000 ppb
							Hexadecane	50000 ppb
							Indeno[1,2,3-cd]pyrene	50000 ppb
							Isophorone	50000 ppb
							n-Decane	50000 ppb
							N-Nitrosodi-n-propylamine	50000 ppb
							N-Nitrosodimethylamine	50000 ppb
							N-Nitrosodiphenylamine	42500 ppb
							n-Octadecane	50000 ppb
							Naphthalene	50000 ppb
							Nitrobenzene	50000 ppb
							Pentachlorophenol	100000 ppb
							Phenanthrene	50000 ppb
							Phenol	50000 ppb
							Pyrene	50000 ppb
							Pyridine	100000 ppb
					OP_RES_LCS2_00006	20 mL	3,3'-Dichlorobenzidine	100000 ppb
							Benzidine	100000 ppb
					OP_RES_LCS3_00004	10 mL	Benzoic acid	50000 ppb
							Indene	50000 ppb
					OP_RES_LCSadd_00001	10 mL	1-Methylphenanthrene	50000 ppb
							2,3-Dichlorobenzenamine	50000 ppb
							Alpha Methyl Styrene	50000 ppb
							Alpha-Terpineol	50000 ppb
							Dimethylformamide	50000 ppb
							icosane	50000 ppb
							n-Docosane	50000 ppb
							n-Tetradecane	50000 ppb

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Octachlorostyrene	50000 ppb
							Phenyl ether	50000 ppb
..OP_RES_LCS1_00007	02/28/23		Restek, Lot A0175066		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butylbenzylphthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethylphthalate	1000 ug/mL
							Dimethylphthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..OP_RES_LCS2_00006	02/28/23		Restek, Lot A0175898		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..OP_RES_LCS3_00004	12/31/22		Restek, Lot A0173787		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..OP_RES_LCSadd_00001	12/31/23		Restek, Lot A0166837		(Purchased Reagent)		1-Methylphenanthrene	2000 ug/mL
							2,3-Dichlorobenzenamine	2000 ug/mL
							Alpha Methyl Styrene	2000 ug/mL
							Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							icosane	2000 ug/mL
							n-Docosane	2000 ug/mL
							n-Tetradecane	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
.OP_PERYL_STK_00002	07/18/23		ABSOLUTE, Lot 071818		(Purchased Reagent)		Perylene	2000.3 ug/mL

Reagent

MS_RES_ICV1_00002

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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. : 571995.SEC **Lot No.:** A0169665

Description : 8270 List 1 / Std #1 MegaMix (2017)

8270 List 1 / Std #1 MegaMix (2017) 500-2000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2022 **Storage:** 0°C or colder

Handling: Carcinogen/reproductive toxin. Photosensitive. Sonicate. **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	1,4-Dioxane	1,000.8 µg/mL	+/- 5.8322 µg/mL	Gravimetric
	CAS # 123-91-1.SEC (Lot KLE2K)		+/- 11.9702 µg/mL	Unstressed
	Purity 99%		+/- 19.0440 µg/mL	Stressed
2	N-Nitrosodimethylamine	1,003.6 µg/mL	+/- 5.8485 µg/mL	Gravimetric
	CAS # 62-75-9.SEC (Lot 71L89)		+/- 12.0037 µg/mL	Unstressed
	Purity 99%		+/- 19.0973 µg/mL	Stressed
3	Pyridine	2,001.0 µg/mL	+/- 11.6340 µg/mL	Gravimetric
	CAS # 110-86-1.SEC (Lot QN8DK)		+/- 23.9201 µg/mL	Unstressed
	Purity 99%		+/- 38.0684 µg/mL	Stressed
4	Phenol	1,003.0 µg/mL	+/- 5.8450 µg/mL	Gravimetric
	CAS # 108-95-2.SEC (Lot EDPYN)		+/- 11.9965 µg/mL	Unstressed
	Purity 99%		+/- 19.0859 µg/mL	Stressed
5	Aniline	1,005.2 µg/mL	+/- 5.8578 µg/mL	Gravimetric
	CAS # 62-53-3.SEC (Lot ZCD3N)		+/- 12.0228 µg/mL	Unstressed
	Purity 99%		+/- 19.1278 µg/mL	Stressed
6	Bis(2-chloroethyl)ether	1,005.4 µg/mL	+/- 5.8590 µg/mL	Gravimetric
	CAS # 111-44-4.SEC (Lot FA010143)		+/- 12.0252 µg/mL	Unstressed
	Purity 99%		+/- 19.1316 µg/mL	Stressed
7	n-Decane (C10)	1,004.2 µg/mL	+/- 5.8520 µg/mL	Gravimetric
	CAS # 124-18-5.SEC (Lot UCVNN)		+/- 12.0108 µg/mL	Unstressed
	Purity 99%		+/- 19.1087 µg/mL	Stressed

8	2-Chlorophenol		1,000.2	µg/mL	+/-	5.8287	µg/mL	Gravimetric
	CAS # 95-57-8.SEC	(Lot GJ01)			+/-	11.9630	µg/mL	Unstressed
	Purity 99%				+/-	19.0326	µg/mL	Stressed
9	1,3-Dichlorobenzene		1,003.0	µg/mL	+/-	5.8450	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot ZA2ZI)			+/-	11.9965	µg/mL	Unstressed
	Purity 99%				+/-	19.0859	µg/mL	Stressed
10	1,4-Dichlorobenzene		1,001.4	µg/mL	+/-	5.8357	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot J5GVD)			+/-	11.9773	µg/mL	Unstressed
	Purity 99%				+/-	19.0555	µg/mL	Stressed
11	Benzyl alcohol		1,001.6	µg/mL	+/-	5.8368	µg/mL	Gravimetric
	CAS # 100-51-6.SEC	(Lot QZBUO)			+/-	11.9797	µg/mL	Unstressed
	Purity 99%				+/-	19.0593	µg/mL	Stressed
12	1,2-Dichlorobenzene		1,001.6	µg/mL	+/-	5.8368	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	11.9797	µg/mL	Unstressed
	Purity 99%				+/-	19.0593	µg/mL	Stressed
13	2-Methylphenol (o-cresol)		1,006.6	µg/mL	+/-	5.8660	µg/mL	Gravimetric
	CAS # 95-48-7.SEC	(Lot NC7HL)			+/-	12.0395	µg/mL	Unstressed
	Purity 99%				+/-	19.1544	µg/mL	Stressed
14	2,2'-oxybis(1-chloropropane)		1,003.6	µg/mL	+/-	5.8485	µg/mL	Gravimetric
	CAS # 108-60-1.SEC	(Lot 2-KMW-57-8)			+/-	12.0037	µg/mL	Unstressed
	Purity 99%				+/-	19.0973	µg/mL	Stressed
15	Acetophenone		1,000.4	µg/mL	+/-	5.8299	µg/mL	Gravimetric
	CAS # 98-86-2.SEC	(Lot NSGTI)			+/-	11.9654	µg/mL	Unstressed
	Purity 99%				+/-	19.0364	µg/mL	Stressed
16	3-Methylphenol (m-cresol)		500.4	µg/mL	+/-	2.9161	µg/mL	Gravimetric
	CAS # 108-39-4.SEC	(Lot 6LHTM)			+/-	5.9851	µg/mL	Unstressed
	Purity 99%				+/-	9.5220	µg/mL	Stressed
17	4-Methylphenol (p-cresol)		502.2	µg/mL	+/-	2.9266	µg/mL	Gravimetric
	CAS # 106-44-5.SEC	(Lot 65S2E)			+/-	6.0066	µg/mL	Unstressed
	Purity 99%				+/-	9.5563	µg/mL	Stressed
18	N-Nitroso-di-n-propylamine		1,002.0	µg/mL	+/-	5.8392	µg/mL	Gravimetric
	CAS # 621-64-7.SEC	(Lot 9566100)			+/-	11.9845	µg/mL	Unstressed
	Purity 99%				+/-	19.0669	µg/mL	Stressed
19	Hexachloroethane		1,005.2	µg/mL	+/-	5.8578	µg/mL	Gravimetric
	CAS # 67-72-1.SEC	(Lot 10173016)			+/-	12.0228	µg/mL	Unstressed
	Purity 99%				+/-	19.1278	µg/mL	Stressed
20	Nitrobenzene		1,000.0	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 98-95-3.SEC	(Lot FLYIG)			+/-	11.9606	µg/mL	Unstressed
	Purity 99%				+/-	19.0288	µg/mL	Stressed
21	Isophorone		999.6	µg/mL	+/-	5.8252	µg/mL	Gravimetric
	CAS # 78-59-1.SEC	(Lot XHGJI)			+/-	11.9558	µg/mL	Unstressed
	Purity 98%				+/-	19.0212	µg/mL	Stressed
22	2-Nitrophenol		1,003.2	µg/mL	+/-	5.8462	µg/mL	Gravimetric
	CAS # 88-75-5.SEC	(Lot GXJ7J)			+/-	11.9989	µg/mL	Unstressed
	Purity 99%				+/-	19.0897	µg/mL	Stressed
23	2,4-Dimethylphenol		1,000.6	µg/mL	+/-	5.8310	µg/mL	Gravimetric
	CAS # 105-67-9.SEC	(Lot MKBL3650V)			+/-	11.9678	µg/mL	Unstressed
	Purity 99%				+/-	19.0402	µg/mL	Stressed

24	Bis(2-chloroethoxy)methane		1,000.8	µg/mL	+/-	5.8322	µg/mL	Gravimetric
	CAS # 111-91-1 *	(Lot 9890600)			+/-	11.9702	µg/mL	Unstressed
	Purity 99%				+/-	19.0440	µg/mL	Stressed
25	2,4-Dichlorophenol		1,002.2	µg/mL	+/-	5.8403	µg/mL	Gravimetric
	CAS # 120-83-2.SEC	(Lot FHM01)			+/-	11.9869	µg/mL	Unstressed
	Purity 99%				+/-	19.0707	µg/mL	Stressed
26	1,2,4-Trichlorobenzene		1,001.6	µg/mL	+/-	5.8368	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot IGLFA)			+/-	11.9797	µg/mL	Unstressed
	Purity 99%				+/-	19.0593	µg/mL	Stressed
27	Naphthalene		1,000.0	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot AM5NG)			+/-	11.9606	µg/mL	Unstressed
	Purity 99%				+/-	19.0288	µg/mL	Stressed
28	2,6-Dichlorophenol		1,000.6	µg/mL	+/-	5.8310	µg/mL	Gravimetric
	CAS # 87-65-0.SEC	(Lot SIDBB)			+/-	11.9678	µg/mL	Unstressed
	Purity 99%				+/-	19.0402	µg/mL	Stressed
29	4-Chloroaniline		1,003.4	µg/mL	+/-	5.8473	µg/mL	Gravimetric
	CAS # 106-47-8.SEC	(Lot 10171860)			+/-	12.0013	µg/mL	Unstressed
	Purity 99%				+/-	19.0935	µg/mL	Stressed
30	Hexachlorobutadiene		999.9	µg/mL	+/-	5.8268	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 11135200)			+/-	11.9591	µg/mL	Unstressed
	Purity 97%				+/-	19.0265	µg/mL	Stressed
31	4-Chloro-3-methylphenol		1,001.0	µg/mL	+/-	5.8333	µg/mL	Gravimetric
	CAS # 59-50-7.SEC	(Lot FDO02)			+/-	11.9726	µg/mL	Unstressed
	Purity 99%				+/-	19.0478	µg/mL	Stressed
32	2-Methylnaphthalene		1,000.4	µg/mL	+/-	5.8299	µg/mL	Gravimetric
	CAS # 91-57-6.SEC	(Lot 76023-1)			+/-	11.9654	µg/mL	Unstressed
	Purity 99%				+/-	19.0364	µg/mL	Stressed
33	1-Methylnaphthalene		999.8	µg/mL	+/-	5.8263	µg/mL	Gravimetric
	CAS # 90-12-0.SEC	(Lot OEE3F)			+/-	11.9582	µg/mL	Unstressed
	Purity 98%				+/-	19.0249	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene		1,004.8	µg/mL	+/-	5.8555	µg/mL	Gravimetric
	CAS # 95-94-3.SEC	(Lot AF02)			+/-	12.0180	µg/mL	Unstressed
	Purity 99%				+/-	19.1202	µg/mL	Stressed
35	Hexachlorocyclopentadiene		1,000.0	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 77-47-4.SEC	(Lot 9707900)			+/-	11.9606	µg/mL	Unstressed
	Purity 99%				+/-	19.0288	µg/mL	Stressed
36	2,4,6-Trichlorophenol		1,002.6	µg/mL	+/-	5.8427	µg/mL	Gravimetric
	CAS # 88-06-2.SEC	(Lot UUMYM)			+/-	11.9917	µg/mL	Unstressed
	Purity 99%				+/-	19.0783	µg/mL	Stressed
37	2,4,5-Trichlorophenol		1,005.3	µg/mL	+/-	5.8585	µg/mL	Gravimetric
	CAS # 95-95-4.SEC	(Lot MKBQ9937V)			+/-	12.0241	µg/mL	Unstressed
	Purity 97%				+/-	19.1298	µg/mL	Stressed
38	2-Chloronaphthalene		1,005.0	µg/mL	+/-	5.8567	µg/mL	Gravimetric
	CAS # 91-58-7.SEC	(Lot 9711100)			+/-	12.0204	µg/mL	Unstressed
	Purity 99%				+/-	19.1240	µg/mL	Stressed
39	Biphenyl		1,000.2	µg/mL	+/-	5.8287	µg/mL	Gravimetric
	CAS # 92-52-4.SEC	(Lot 33OQE)			+/-	11.9630	µg/mL	Unstressed
	Purity 99%				+/-	19.0326	µg/mL	Stressed

40	2-Nitroaniline		1,001.4	µg/mL	+/-	5.8357	µg/mL	Gravimetric
	CAS # 88-74-4.SEC	(Lot T6E7B)			+/-	11.9773	µg/mL	Unstressed
	Purity 99%				+/-	19.0555	µg/mL	Stressed
41	Acenaphthylene		1,000.7	µg/mL	+/-	5.8316	µg/mL	Gravimetric
	CAS # 208-96-8.SEC	(Lot 0012014)			+/-	11.9690	µg/mL	Unstressed
	Purity 96%				+/-	19.0422	µg/mL	Stressed
42	1,3-Dinitrobenzene		1,004.0	µg/mL	+/-	5.8508	µg/mL	Gravimetric
	CAS # 99-65-0.SEC	(Lot 3XXLB)			+/-	12.0084	µg/mL	Unstressed
	Purity 99%				+/-	19.1049	µg/mL	Stressed
43	Dimethylphthalate		1,001.8	µg/mL	+/-	5.8380	µg/mL	Gravimetric
	CAS # 131-11-3.SEC	(Lot 483WC)			+/-	11.9821	µg/mL	Unstressed
	Purity 99%				+/-	19.0631	µg/mL	Stressed
44	2,6-Dinitrotoluene		1,005.2	µg/mL	+/-	5.8578	µg/mL	Gravimetric
	CAS # 606-20-2.SEC	(Lot GE01)			+/-	12.0228	µg/mL	Unstressed
	Purity 99%				+/-	19.1278	µg/mL	Stressed
45	3-Nitroaniline		1,002.4	µg/mL	+/-	5.8415	µg/mL	Gravimetric
	CAS # 99-09-2.SEC	(Lot FGN03)			+/-	11.9893	µg/mL	Unstressed
	Purity 99%				+/-	19.0745	µg/mL	Stressed
46	Acenaphthene		1,003.6	µg/mL	+/-	5.8485	µg/mL	Gravimetric
	CAS # 83-32-9.SEC	(Lot BWZJE)			+/-	12.0037	µg/mL	Unstressed
	Purity 99%				+/-	19.0973	µg/mL	Stressed
47	2,4-Dinitrophenol		2,005.3	µg/mL	+/-	11.6588	µg/mL	Gravimetric
	CAS # 51-28-5.SEC	(Lot YTR6B)			+/-	23.9712	µg/mL	Unstressed
	Purity 98%				+/-	38.1498	µg/mL	Stressed
48	Dibenzofuran		1,000.8	µg/mL	+/-	5.8322	µg/mL	Gravimetric
	CAS # 132-64-9.SEC	(Lot 27ZGC)			+/-	11.9702	µg/mL	Unstressed
	Purity 99%				+/-	19.0440	µg/mL	Stressed
49	4-Nitrophenol		2,005.6	µg/mL	+/-	11.6607	µg/mL	Gravimetric
	CAS # 100-02-7.SEC	(Lot H75QG)			+/-	23.9751	µg/mL	Unstressed
	Purity 99%				+/-	38.1560	µg/mL	Stressed
50	2,4-Dinitrotoluene		1,000.8	µg/mL	+/-	5.8322	µg/mL	Gravimetric
	CAS # 121-14-2.SEC	(Lot SHRSA)			+/-	11.9702	µg/mL	Unstressed
	Purity 99%				+/-	19.0440	µg/mL	Stressed
51	2,3,4,6-Tetrachlorophenol		1,001.4	µg/mL	+/-	5.8357	µg/mL	Gravimetric
	CAS # 58-90-2.SEC	(Lot LRAC4175)			+/-	11.9773	µg/mL	Unstressed
	Purity 99%				+/-	19.0555	µg/mL	Stressed
52	Fluorene		1,002.0	µg/mL	+/-	5.8392	µg/mL	Gravimetric
	CAS # 86-73-7.SEC	(Lot 10342200)			+/-	11.9845	µg/mL	Unstressed
	Purity 99%				+/-	19.0669	µg/mL	Stressed
53	n-Hexadecane (C16)		1,001.6	µg/mL	+/-	5.8368	µg/mL	Gravimetric
	CAS # 544-76-3.SEC	(Lot A0328141)			+/-	11.9797	µg/mL	Unstressed
	Purity 99%				+/-	19.0593	µg/mL	Stressed
54	Diethylphthalate		1,001.8	µg/mL	+/-	5.8380	µg/mL	Gravimetric
	CAS # 84-66-2.SEC	(Lot UMBJC)			+/-	11.9821	µg/mL	Unstressed
	Purity 99%				+/-	19.0631	µg/mL	Stressed
55	4-Chlorophenyl phenyl ether		1,000.4	µg/mL	+/-	5.8298	µg/mL	Gravimetric
	CAS # 7005-72-3.SEC	(Lot P31G)			+/-	11.9652	µg/mL	Unstressed
	Purity 98%				+/-	19.0361	µg/mL	Stressed

56	4-Nitroaniline		1,002.0	µg/mL	+/-	5.8392	µg/mL	Gravimetric
	CAS # 100-01-6.SEC	(Lot 5ITRC)			+/-	11.9845	µg/mL	Unstressed
	Purity 99%				+/-	19.0669	µg/mL	Stressed
57	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)		2,009.4	µg/mL	+/-	11.6828	µg/mL	Gravimetric
	CAS # 534-52-1.SEC	(Lot DR11288300)			+/-	24.0205	µg/mL	Unstressed
	Purity 99%				+/-	38.2283	µg/mL	Stressed
58	Diphenylamine		851.0	µg/mL	+/-	4.9592	µg/mL	Gravimetric
	CAS # 122-39-4.SEC	(Lot 10164691)			+/-	10.1785	µg/mL	Unstressed
	Purity 99%				+/-	16.1935	µg/mL	Stressed
59	Azobenzene		1,000.4	µg/mL	+/-	5.8299	µg/mL	Gravimetric
	CAS # 103-33-3.SEC	(Lot JUWAG)			+/-	11.9654	µg/mL	Unstressed
	Purity 99%				+/-	19.0364	µg/mL	Stressed
60	4-Bromophenyl phenyl ether		1,001.4	µg/mL	+/-	5.8357	µg/mL	Gravimetric
	CAS # 101-55-3.SEC	(Lot 84C6D)			+/-	11.9773	µg/mL	Unstressed
	Purity 99%				+/-	19.0555	µg/mL	Stressed
61	Hexachlorobenzene		1,001.0	µg/mL	+/-	5.8333	µg/mL	Gravimetric
	CAS # 118-74-1.SEC	(Lot G137934)			+/-	11.9726	µg/mL	Unstressed
	Purity 99%				+/-	19.0478	µg/mL	Stressed
62	Pentachlorophenol		2,002.0	µg/mL	+/-	11.6398	µg/mL	Gravimetric
	CAS # 87-86-5.SEC	(Lot 8636800)			+/-	23.9320	µg/mL	Unstressed
	Purity 99%				+/-	38.0875	µg/mL	Stressed
63	n-Octadecane (C18)		1,004.8	µg/mL	+/-	5.8555	µg/mL	Gravimetric
	CAS # 593-45-3.SEC	(Lot G14U045)			+/-	12.0180	µg/mL	Unstressed
	Purity 99%				+/-	19.1202	µg/mL	Stressed
64	Phenanthrene		1,004.3	µg/mL	+/-	5.8526	µg/mL	Gravimetric
	CAS # 85-01-8.SEC	(Lot 8637000)			+/-	12.0121	µg/mL	Unstressed
	Purity 98%				+/-	19.1107	µg/mL	Stressed
65	Anthracene		1,003.0	µg/mL	+/-	5.8450	µg/mL	Gravimetric
	CAS # 120-12-7.SEC	(Lot WDFNJ)			+/-	11.9965	µg/mL	Unstressed
	Purity 99%				+/-	19.0859	µg/mL	Stressed
66	Carbazole		1,004.8	µg/mL	+/-	5.8555	µg/mL	Gravimetric
	CAS # 86-74-8.SEC	(Lot 7MR7O)			+/-	12.0180	µg/mL	Unstressed
	Purity 99%				+/-	19.1202	µg/mL	Stressed
67	Di-n-butylphthalate		1,001.4	µg/mL	+/-	5.8357	µg/mL	Gravimetric
	CAS # 84-74-2.SEC	(Lot 42FSG)			+/-	11.9773	µg/mL	Unstressed
	Purity 99%				+/-	19.0555	µg/mL	Stressed
68	Fluoranthene		1,003.2	µg/mL	+/-	5.8462	µg/mL	Gravimetric
	CAS # 206-44-0.SEC	(Lot FREGF)			+/-	11.9989	µg/mL	Unstressed
	Purity 99%				+/-	19.0897	µg/mL	Stressed
69	Pyrene		1,004.2	µg/mL	+/-	5.8520	µg/mL	Gravimetric
	CAS # 129-00-0.SEC	(Lot ROVJC)			+/-	12.0108	µg/mL	Unstressed
	Purity 99%				+/-	19.1087	µg/mL	Stressed
70	Benzyl butyl phthalate		1,006.9	µg/mL	+/-	5.8675	µg/mL	Gravimetric
	CAS # 85-68-7.SEC	(Lot GX3GL)			+/-	12.0426	µg/mL	Unstressed
	Purity 98%				+/-	19.1592	µg/mL	Stressed
71	Benz(a)anthracene		1,002.3	µg/mL	+/-	5.8412	µg/mL	Gravimetric
	CAS # 56-55-3.SEC	(Lot MTENF)			+/-	11.9886	µg/mL	Unstressed
	Purity 98%				+/-	19.0734	µg/mL	Stressed

72	chrysene		1,004.0	µg/mL	+/-	5.8508	µg/mL	Gravimetric
	CAS # 218-01-9.SEC	(Lot NICZC)			+/-	12.0084	µg/mL	Unstressed
	Purity 99%				+/-	19.1049	µg/mL	Stressed
73	Bis(2-ethylhexyl)phthalate		1,001.8	µg/mL	+/-	5.8380	µg/mL	Gravimetric
	CAS # 117-81-7.SEC	(Lot MT8AG)			+/-	11.9821	µg/mL	Unstressed
	Purity 99%				+/-	19.0631	µg/mL	Stressed
74	Di-n-octyl phthalate		1,003.4	µg/mL	+/-	5.8473	µg/mL	Gravimetric
	CAS # 117-84-0.SEC	(Lot O8DLD)			+/-	12.0013	µg/mL	Unstressed
	Purity 99%				+/-	19.0935	µg/mL	Stressed
75	Benzo(b)fluoranthene		1,003.6	µg/mL	+/-	5.8485	µg/mL	Gravimetric
	CAS # 205-99-2.SEC	(Lot I4OWH)			+/-	12.0037	µg/mL	Unstressed
	Purity 99%				+/-	19.0973	µg/mL	Stressed
76	Benzo(k)fluoranthene		1,004.0	µg/mL	+/-	5.8508	µg/mL	Gravimetric
	CAS # 207-08-9.SEC	(Lot 11288200)			+/-	12.0084	µg/mL	Unstressed
	Purity 99%				+/-	19.1049	µg/mL	Stressed
77	Benzo(a)pyrene		1,004.6	µg/mL	+/-	5.8543	µg/mL	Gravimetric
	CAS # 50-32-8.SEC	(Lot SLCD4874)			+/-	12.0156	µg/mL	Unstressed
	Purity 99%				+/-	19.1164	µg/mL	Stressed
78	Indeno(1,2,3-cd)pyrene		1,000.6	µg/mL	+/-	5.8310	µg/mL	Gravimetric
	CAS # 193-39-5.SEC	(Lot 022015)			+/-	11.9678	µg/mL	Unstressed
	Purity 99%				+/-	19.0402	µg/mL	Stressed
79	Dibenz(a,h)anthracene		1,000.4	µg/mL	+/-	5.8299	µg/mL	Gravimetric
	CAS # 53-70-3.SEC	(Lot 0012011)			+/-	11.9654	µg/mL	Unstressed
	Purity 99%				+/-	19.0364	µg/mL	Stressed
80	Benzo(g,h,i)perylene		1,005.3	µg/mL	+/-	5.8585	µg/mL	Gravimetric
	CAS # 191-24-2.SEC	(Lot 0022012)			+/-	12.0241	µg/mL	Unstressed
	Purity 96%				+/-	19.1299	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
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.**

Specific Reference Material Notes:

N-nitrosodiphenylamine 1000 ug/mL equivalent when used for GC analysis. Actual formulation is diphenylamine 855 ug/mL.
N-Nitrosodiphenylamine is prone to breakdown in the injection port and will be converted to diphenylamine.
N-Nitrosodiphenylamine is also a reactive species that can initiate premature decomposition of other compounds in the mix. For these reasons diphenylamine is used in the preparation of this mixture. When comparing the response of this compound to mixtures manufactured using N-nitrosodiphenylamine, a difference in response will be observed.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

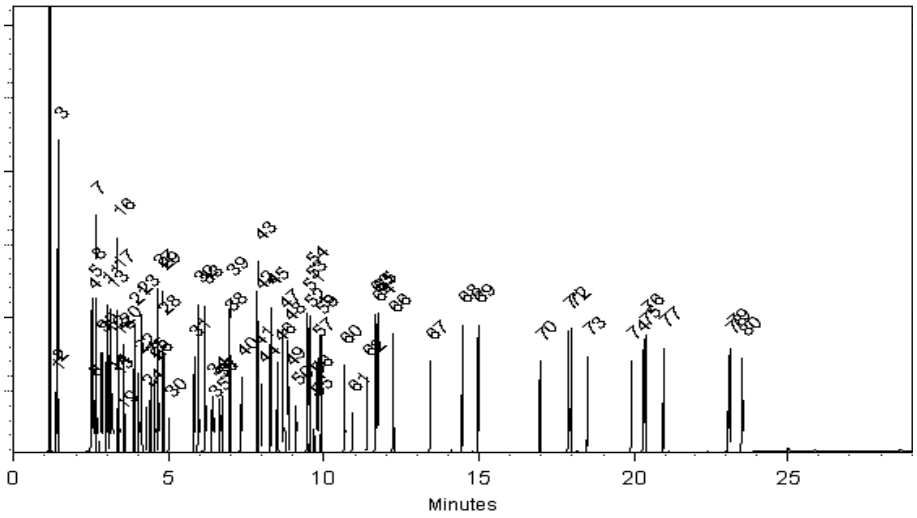
Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:
250°C

Det. Temp:
340°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.

Matt Fragassi - Mix Technician

Date Mixed: 02-Mar-2021 **Balance:** 1128342314

Marlina Cowan - Operations Tech I

Date Passed: 11-Mar-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

MSS_8270_SURR_00004

Certificate of Analysis

EPA 8270 Surrogate Standard

Certified Reference Material

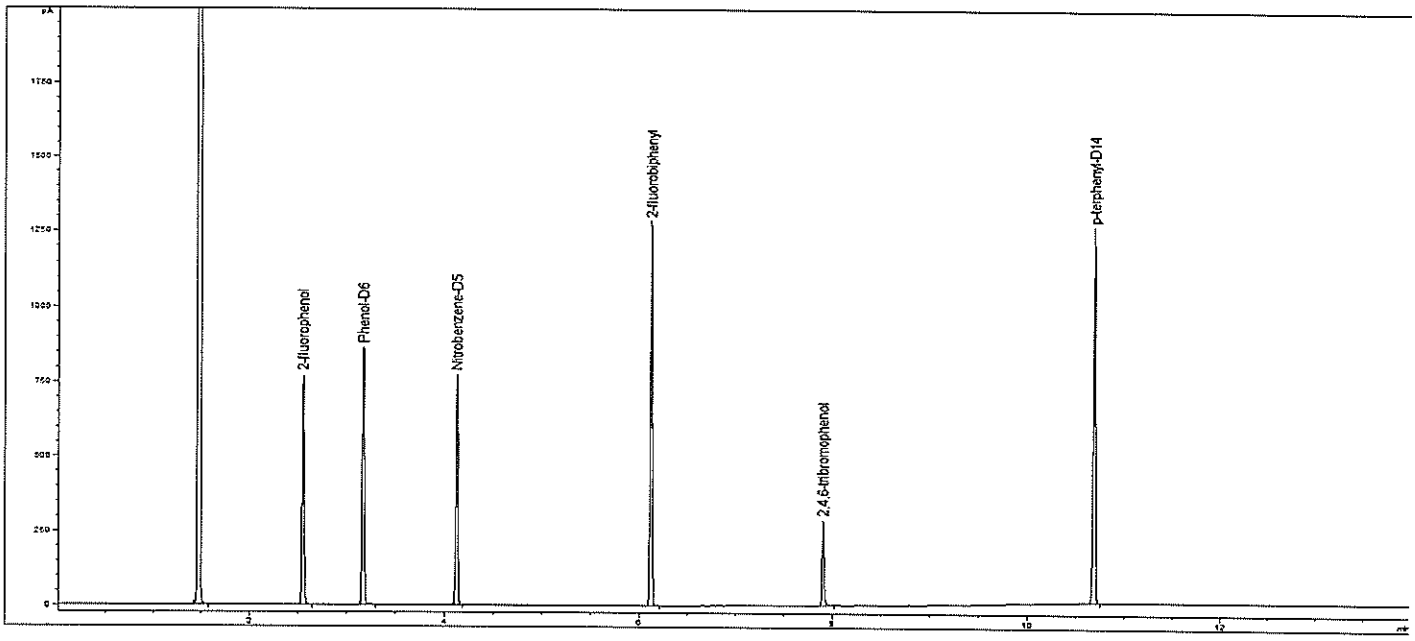
Description

Product ID CRM47960
Lot LRAC8467
Expiration Date October 2023
Manufacturing Date October 2020
Storage Conditions Refrigerate
Solvent/Matrix DICHLOROMETHANE

Certified Values

Analyte	*Certified Value* [1,4]	*Units*	*Raw Material Purity,%*	*Elution order*	*Raw Material Lot*	*CAS*
2-FLUOROPHENOL	4003 ± 110	µg/mL	99.9	01	LB92543	367-12-4
PHENOL-D6	4002 ± 75	µg/mL	99.5	02	MBBC6771	13127-88-3
NITROBENZENE-D5	4001 ± 50	µg/mL	99.9	03	LB83753	4165-60-0
2-FLUOROBIPHENYL	4001 ± 79	µg/mL	99.9	04	MKCK0527	321-60-8
2,4,6-TRIBROMOPHENOL	4004 ± 92	µg/mL	99.7	05	LB81262	118-79-6
P-TERPHENYL-D14	4047 ± 131	µg/mL	99.5	06	PR-27278/121715	1718-51-0

Informational Values



Additional Information:

Analytical Method Parameters:
Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #214)
Carrier Gas: H2, Flow: 4.5 mL/min
Inlet Temperature: 270 °C, Injection Volume: 1.0 µL
Injection Mode: Split, Split Ratio: 40: 1
Temperature Program: 100 °C (Hold 1 min) @ 20 °C/min to 280 °C (Hold 4 min)

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

SIGMA-ALDRICH®
2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA
800-325-5832
TechService@millipore sigma.com www.sigma-aldrich.com

Reagent

MSS_AB_14DIOX_00007

CERTIFIED WEIGHT REPORT

Part Number: 70373
Lot Number: 121619
Description: 1,4-Dioxane

Expiration Date: 121624
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

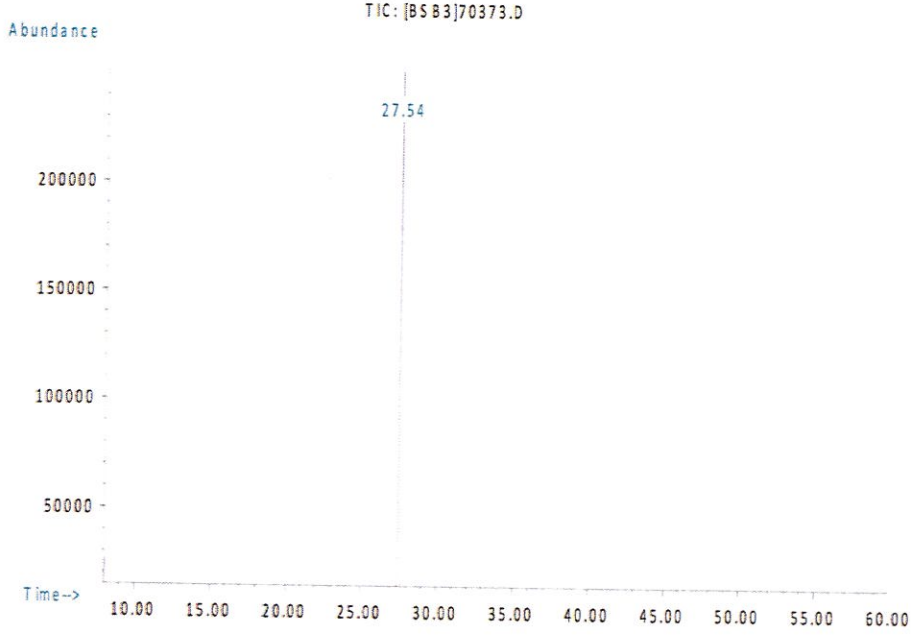
Solvent:	**Lot#**
Methanol	DV182-US

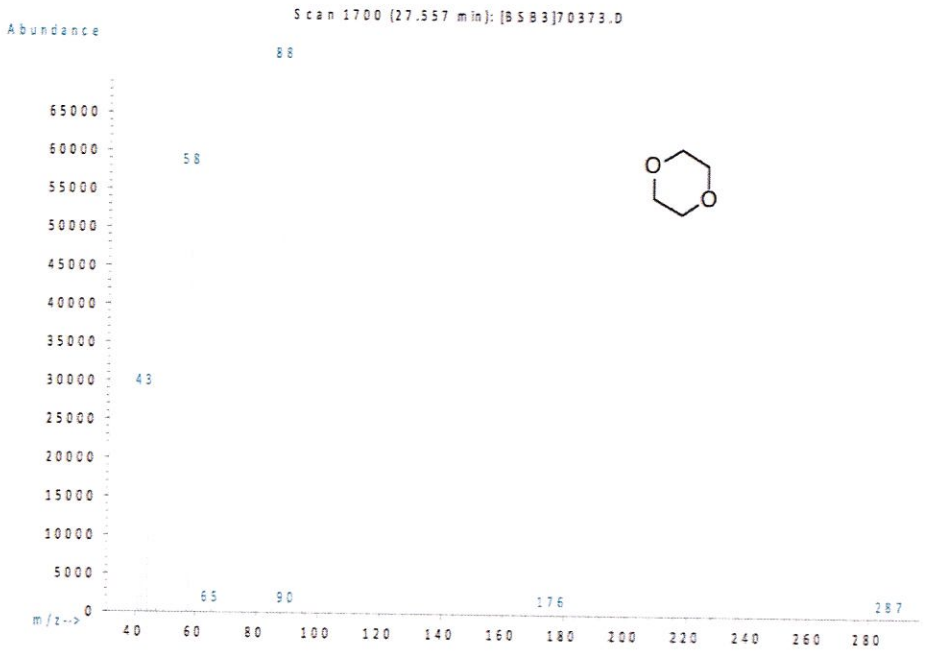
Weight(s) shown below were combined and diluted to (mL): 200.0 | 5E-05 Balance Uncertainty | 0.058 Flask Uncertainty

Eli Aliaga	121619
Formulated By: Eli Aliaga	DATE
Pedro Rentas	121619
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.	1,4-Dioxane	373	03853KE	1000	99	0.2	0.20201	0.20220	1000.9	4.1	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp.= 200°C, Detector Temp. = 220°C. Analysis performed by Candice Warren.





- 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 certifed (+/-) 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

MSS_AB_24DNP_00006

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 70159
Lot Number: 090518
Description: 2,4-Dinitrophenol

Expiration Date: 090523
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 2684186

Solvent(s): Methanol **Lot#** DT140

Eli Aliaga 090518
Formulated By: Eli Aliaga DATE

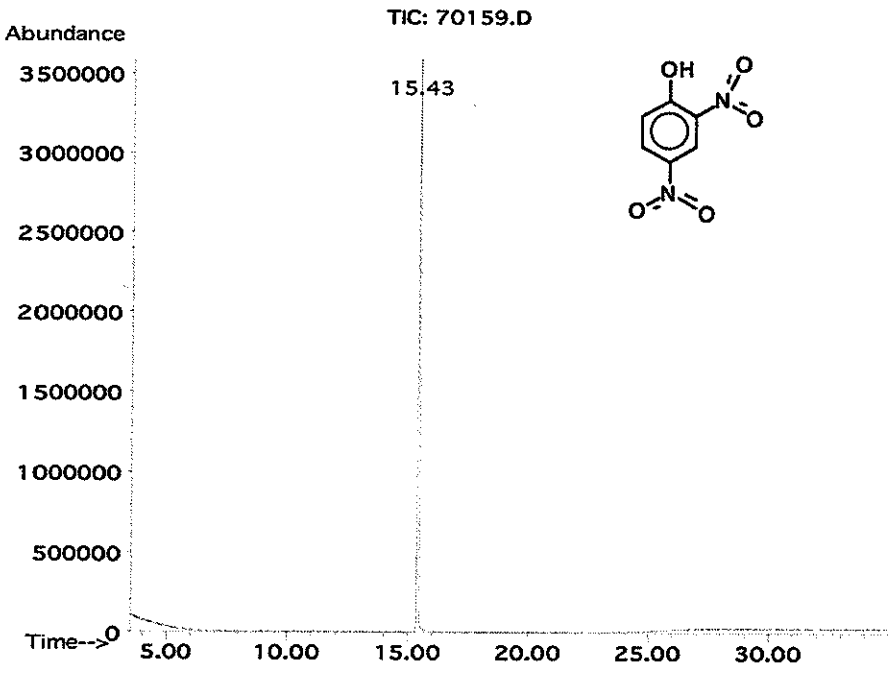
Pedro Rentas 090518
Reviewed By: Pedro L. Rentas DATE

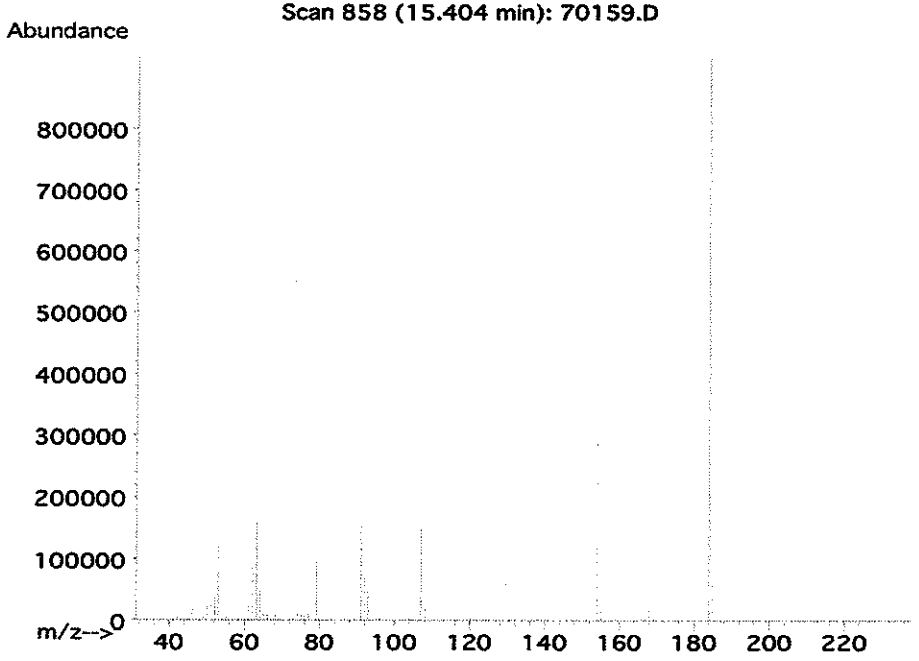
5E-05	Balance Uncertainty	
0.001	Flask Uncertainty	

Weight(s) shown below were combined and diluted to (mL): 100.0

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. 2,4-Dinitrophenol	159	032516	1000	98	0.2	0.10205	0.10213	1000.8	4.2	51-28-5	N/A	orl-rat 30mg/kg

Method GC8MSD-3.M: Column: (30m X 0.25mm ID X 0.25µm film thickness), Temp 1 = 50°C (1min.), Temp 2 = 300°C (4 min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 300°C. Analysis performed by Melissa Stonier.





- 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 certifed (+/-) 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

MSS_AB_46D2MP_00004

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 70158
Lot Number: 111919
Description: 4,6-Dinitro-2-methylphenol

Solvent(s): **Lot#**
Methanol DV182-US

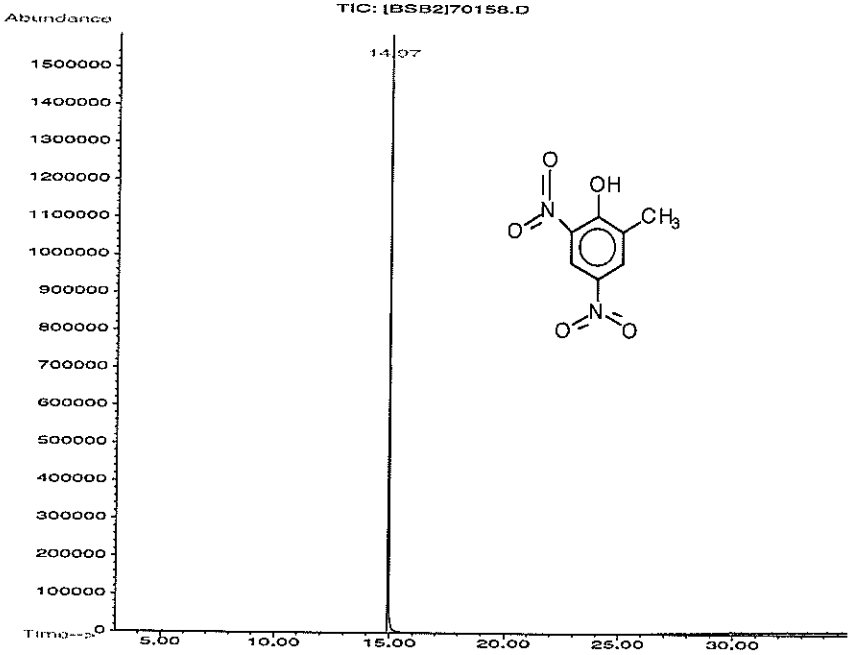
Expiration Date: 111924
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

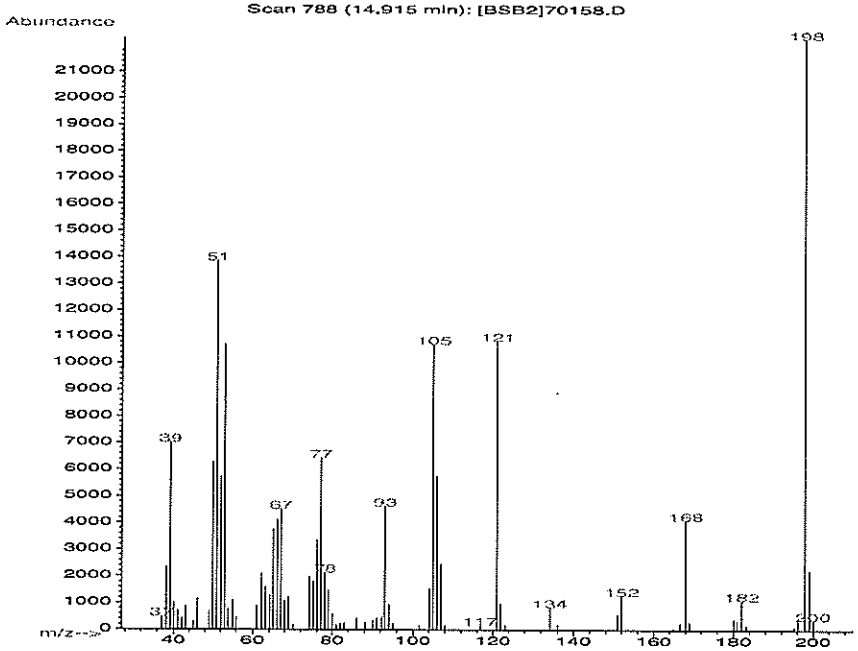
Weight(s) shown below were combined and diluted to (mL): 50.0 | 5E-05 Balance Uncertainty | 0.007 Flask Uncertainty

Justin Dippold	111919
Formulated By: Justin Dippold	DATE
Pedro Rentas	111919
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. 4,6-Dinitro-2-methylphenol	158	052097	1000	98	0.2	0.05102	0.05110	1001.6	4.5	534-52-1	0.2mg/m3/8H (skin)	orl-rat 10mg/kg

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Gina McLane.





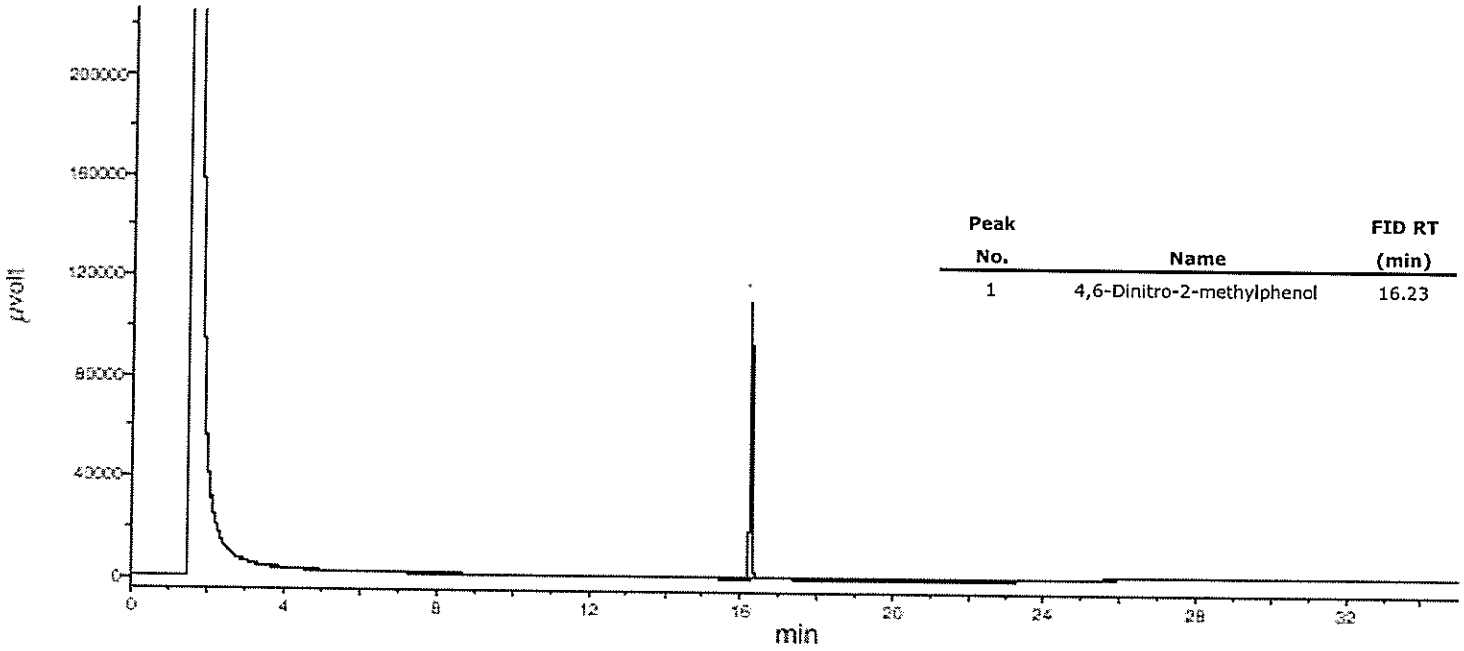
- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, 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).

Run 40, "P70158 L111919 [1000µg/mL in methanol]"

Run Length: 35.00 min, 20999 points at 10 points/second.
Created: Thu, Jan 9, 2020 at 3:51:34 PM.
Sampled: Sequence "010720-GC9M1", Method "GC9-M1".
Analyzed using Method "GC9-M1".

Comments

GC9-M1 Analysis by Melissa Stonier
Column ID Rtx-5 30 meter x 0.53mm x .5um Film Thickness
Flow rates; Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL, Hydrogen (detector) = 30 mL, Air (detector) =360 mL
Oven Temp 1 = 50°C (1 min), Rate = 10°C/min, Oven Temp 2 = 300°C (9 min), Total Run Time = 35 Minutes.
Injector Temp = 200°C, FID Temp = 300°C, FID Signal = eDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 3



Peak No.	Name	FID RT (min)
1	4,6-Dinitro-2-methylphenol	16.23

Reagent

MSS_AB_4NP_00003

CERTIFIED WEIGHT REPORT

Part Number: 70231
Lot Number: 072418
Description: 4-Nitrophenol

Solvent(s): Methanol **Lot#** DS526

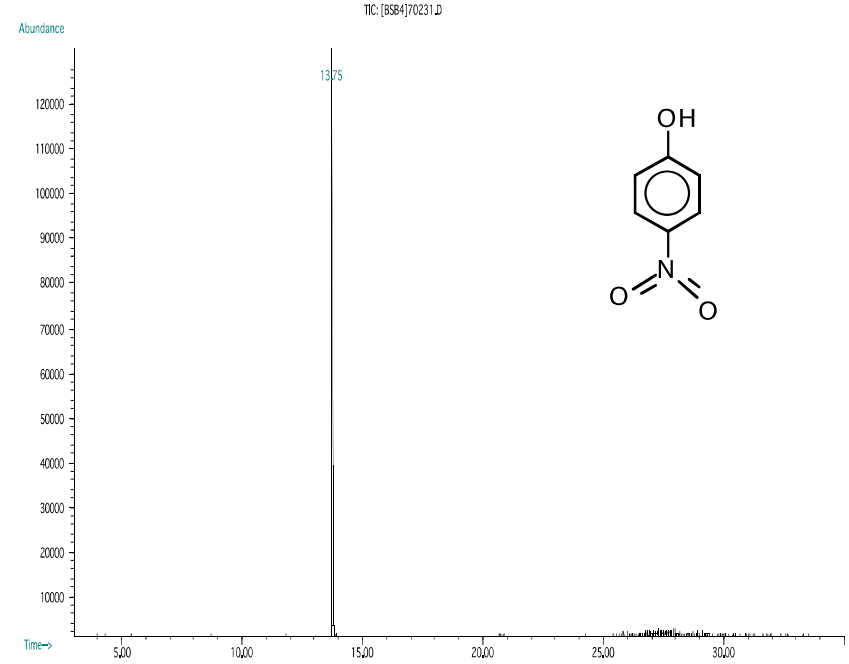
Expiration Date: 072423
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 2684186 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.001 Flask Uncertainty

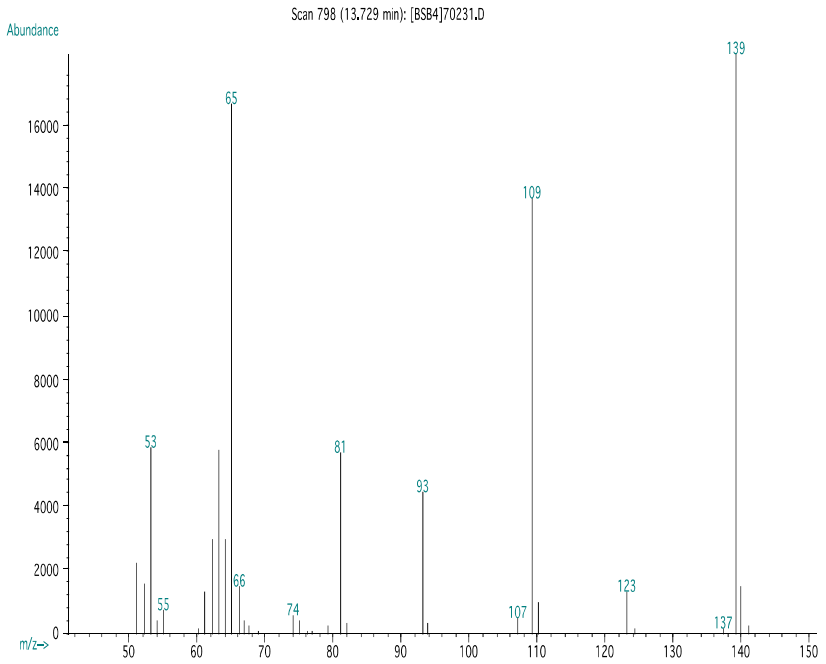
Formulated By: Eli Aliaga 072418 DATE

Reviewed By: Pedro L. Rentas 072418 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. 4-Nitrophenol	231	FGM01	1000	99	0.2	0.10102	0.10109	1000.7	4.2	100-02-7	N/A	orl-rat 250mg/kg

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.





- **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 certifed (+/-) 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

MSS_AB_B2CEE_00005

Absolute Standards, Inc.
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www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 70075
Lot Number: 062419
Description: bis(2-Chloroethyl) ether

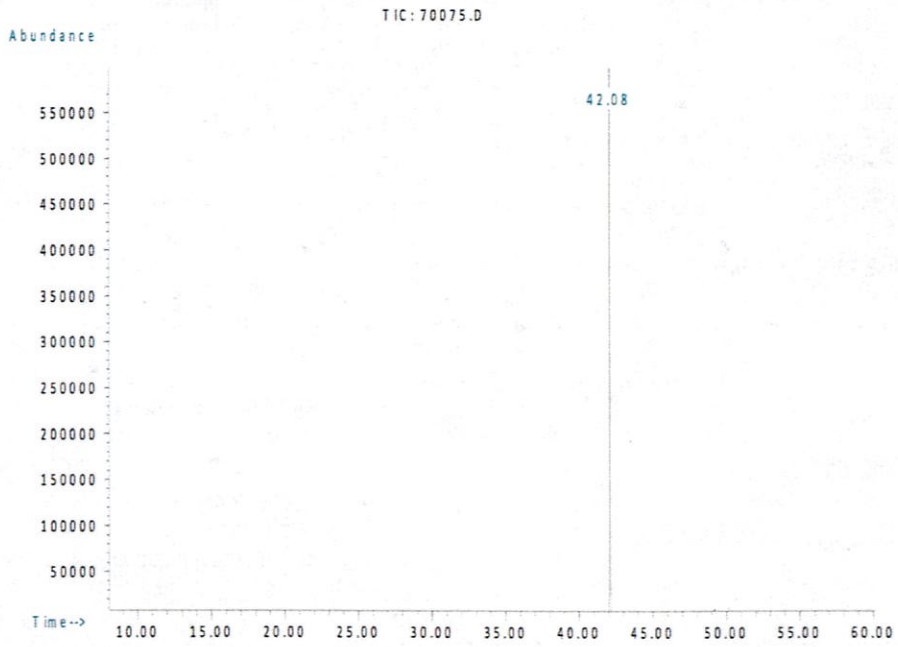
Solvent(s): **Lot#**
Methanol DU230-US

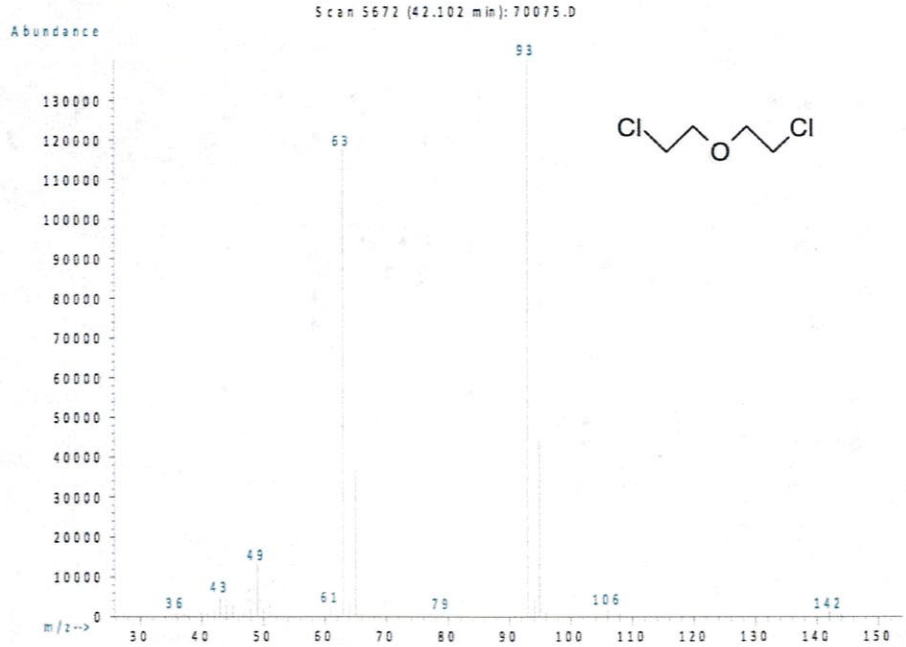
Expiration Date: 062424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 30.0 0.002 Flask Uncertainty

Gabriel Helland	062419
Formulated By: Gabriel Helland	DATE
Pedro Rentas	062419
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. bis(2-Chloroethyl) ether	75	SHBJ2059	1000	99.8	0.2	0.03004	0.03006	1000.6	5.2	111-44-4	15 ppm (90mg/m3/8H)(skin)	orl-rat 75mg/kg

Method: GC16MSD1. **Detector:** MSD (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1=35°C (10 min.), Temp. 2=200°C (8.75 min.), Rate=4°C/min., Injector Temp.=200°C, Detector Temp.=200°C. **Analyst:** Candice Warren.





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- 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

MSS_AB_BZIDIN_00007

Absolute Standards, Inc.
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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

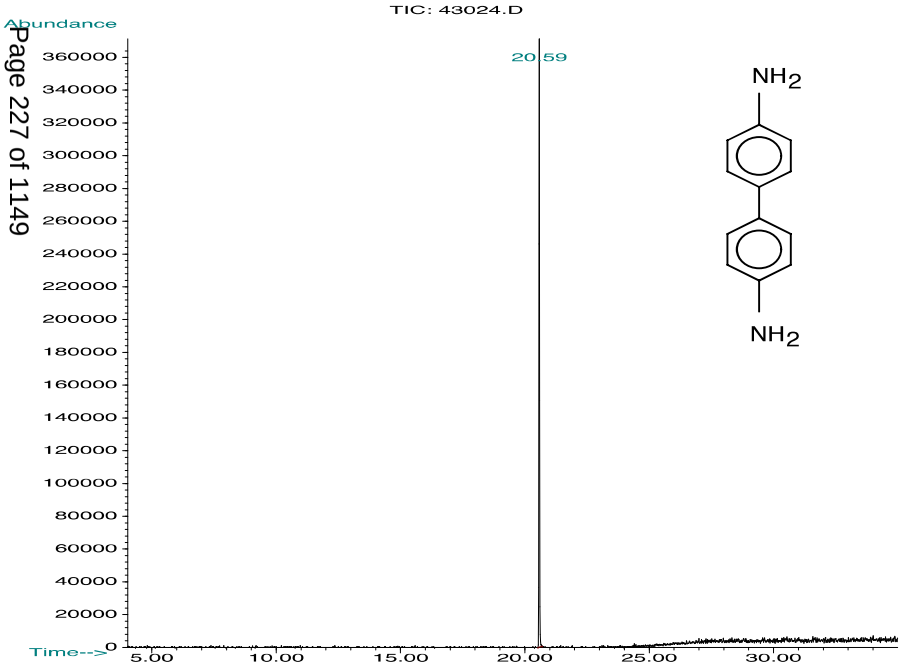
Part Number:	**43124**	**Solvent:**	**Lot#**	
Lot Number:	012920	Methylene chloride	104929	
Description:	Benzidine			
Expiration Date:	012923			
Recommended Storage:	Refrigerate (4 °C)			
Nominal Concentration (µg/mL):	5000			
NIST Test ID#:	6UTB	5E-05	Balance Uncertainty	
Weight(s) shown below were combined and diluted to (mL):	30.0	0.002	Flask Uncertainty	

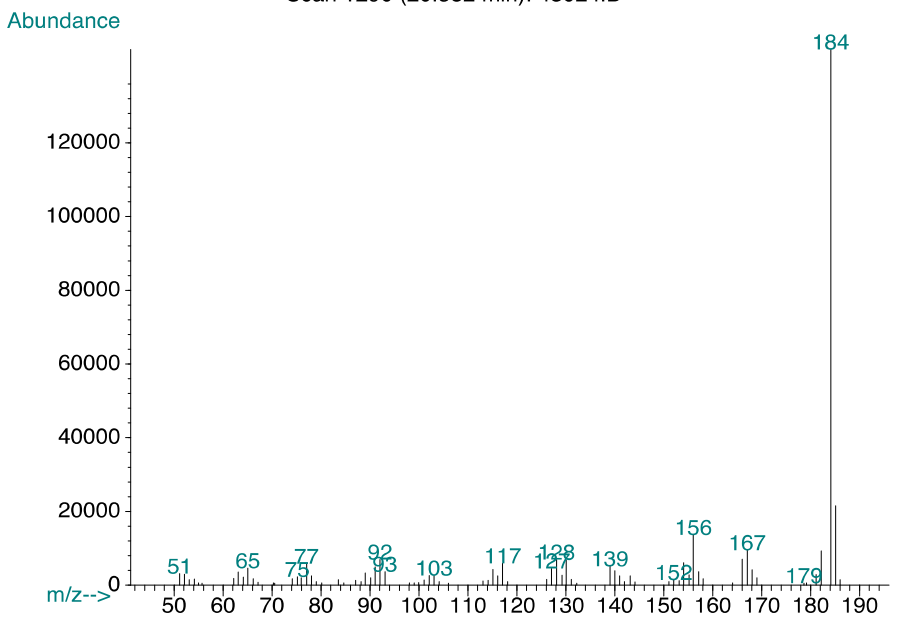
Formulated By: Eli Aliaga 012920 DATE

Reviewed By: Pedro L. Rentas 012920 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.	Benzidine	27	SLBH5327V	5000	98	0.2	0.15318	0.15320	5000.7	20.7	92-87-5	N/A	orl-rat 309mg/kg

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Nicole Davis.





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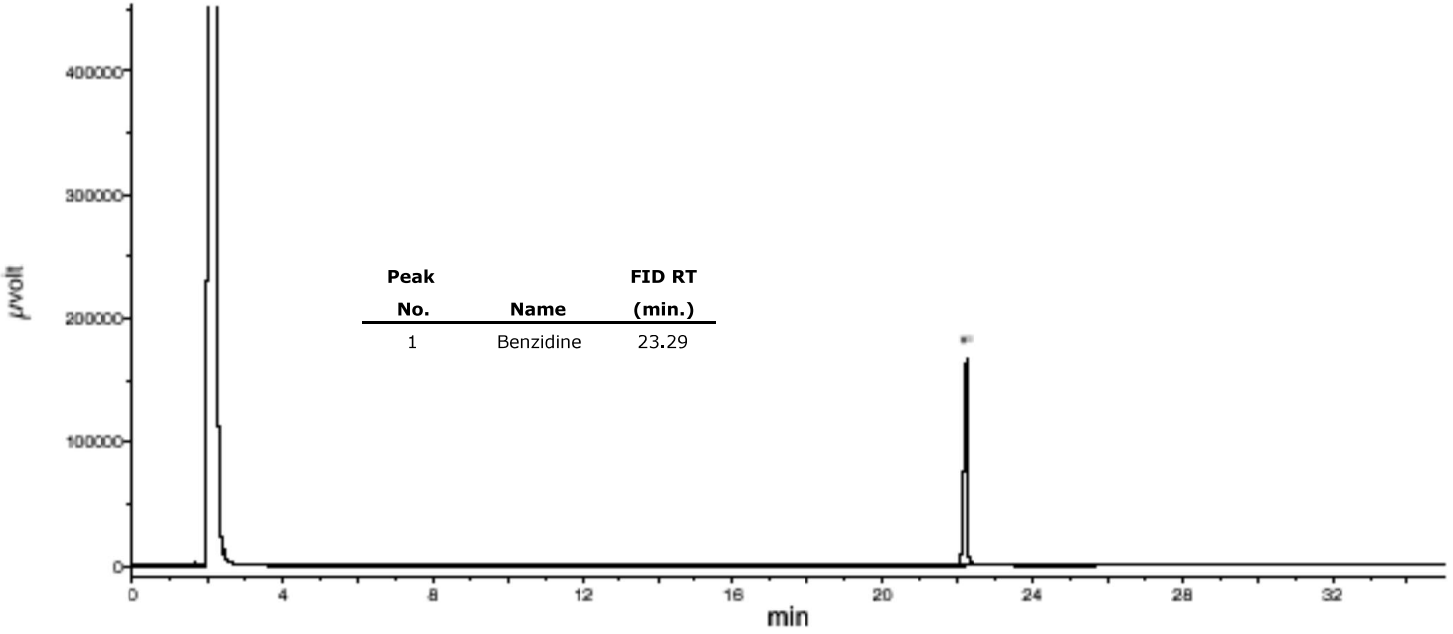
Run 63, "P43124 L012920 [5000µg/mL in MeCl2]"

Run Length: 31.55 min, 18929 points at 10 points/second.
Created: Fri, Jan 31, 2020 at 11:15:27 AM.
Sampled: Sequence "012820-GC4M1", Method "GC4-M1".
Analyzed using Method "GC4-M1".

Comments

GC4-M1 Analysis by Melissa Stonier
Column ID SPB5 L#60062-01A : 30 meter x 0.53mm x 1.5um Film Thickness
Flow rates; Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL, Hydrogen (detector) = 30 mL, Air (detector) =360 mL
Oven Temp 1 = 50°C (1 min), Rate = 10°C/min, Oven Temp 2 = 300°C (9 min), Total Run Time = 35 Minutes.
Injector Temp = 200°C, FID Temp = 300°C, FID Signal = eDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 6



Peak No.	Name	FID RT (min.)
1	Benzidine	23.29

Reagent

MSS_AB_DFTPP_00013

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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT

Part Number:	**43030**	**Solvent(s):**	**Lot#**
Lot Number:	112519	Methylene chloride	102968
Description:	CLP Semi-Volatile Tuning Standard		
	4 components		
Expiration Date:	112522		
Recommended Storage:	Refrigerate (4 °C)		
Nominal Concentration (µg/mL):	500		
NIST Test ID#:	6UTB	5E-05 Balance Uncertainty	

Weight(s) shown below were combined and diluted to (mL): 200.0 0.058 Flask Uncertainty

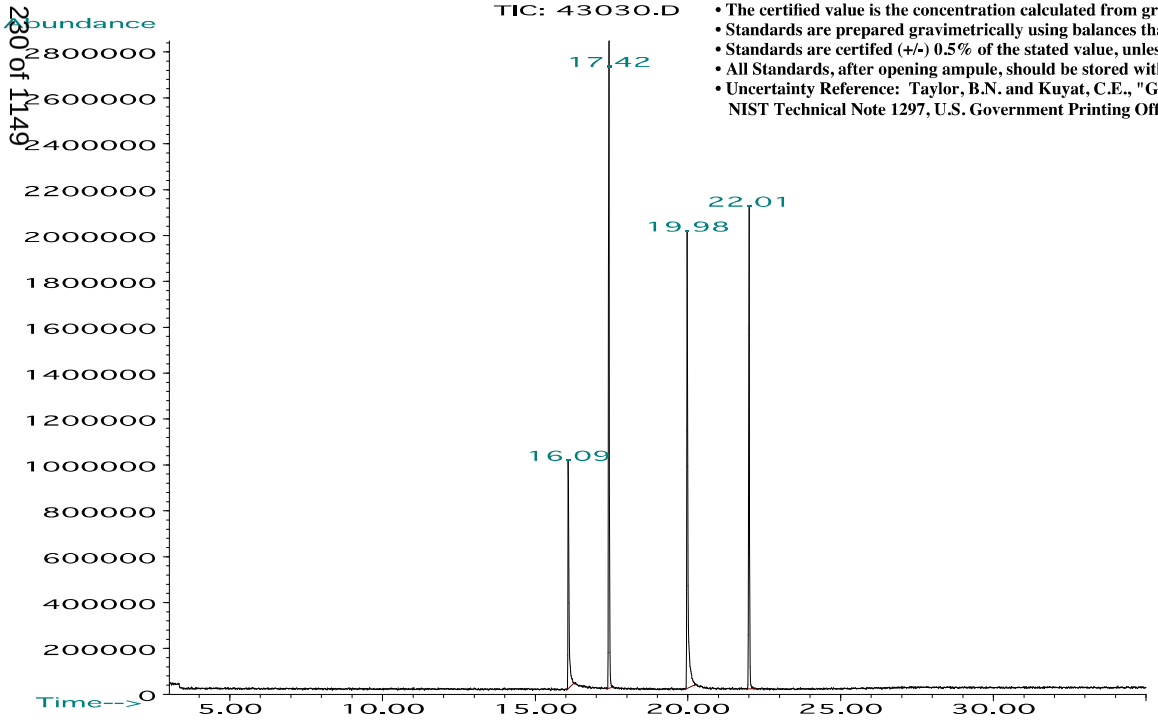
Eli Aliaga 112519
Formulated By: Eli Aliaga DATE

Pedro Rentas 112519
Reviewed By: Pedro L. Rentas DATE

CAUTION: Sonicate Before Use

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. Benzidine	27	SLBH5327V	500	98	0.2	0.10205	0.10220	500.7	2.1	92-87-5	N/A	orl-rat 309mg/kg
2. 4,4'-DDT	101	04029MM	500	99	0.2	0.10102	0.10115	500.6	2.1	50-29-3	N/A	orl-rat 87mg/kg
3. Decafluorotriphenylphosphine	105	10220909	500	97	0.2	0.10311	0.10325	500.7	2.1	5074-71-5	N/A	N/A
4. Pentachlorophenol	243	06324ED	500	98	0.2	0.10205	0.10220	500.7	2.1	87-86-5	0.5mg/m3/8H (skin)	orl-rat 27mg/kg

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Gina McLane.



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- **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).**

Retention Time (min.)

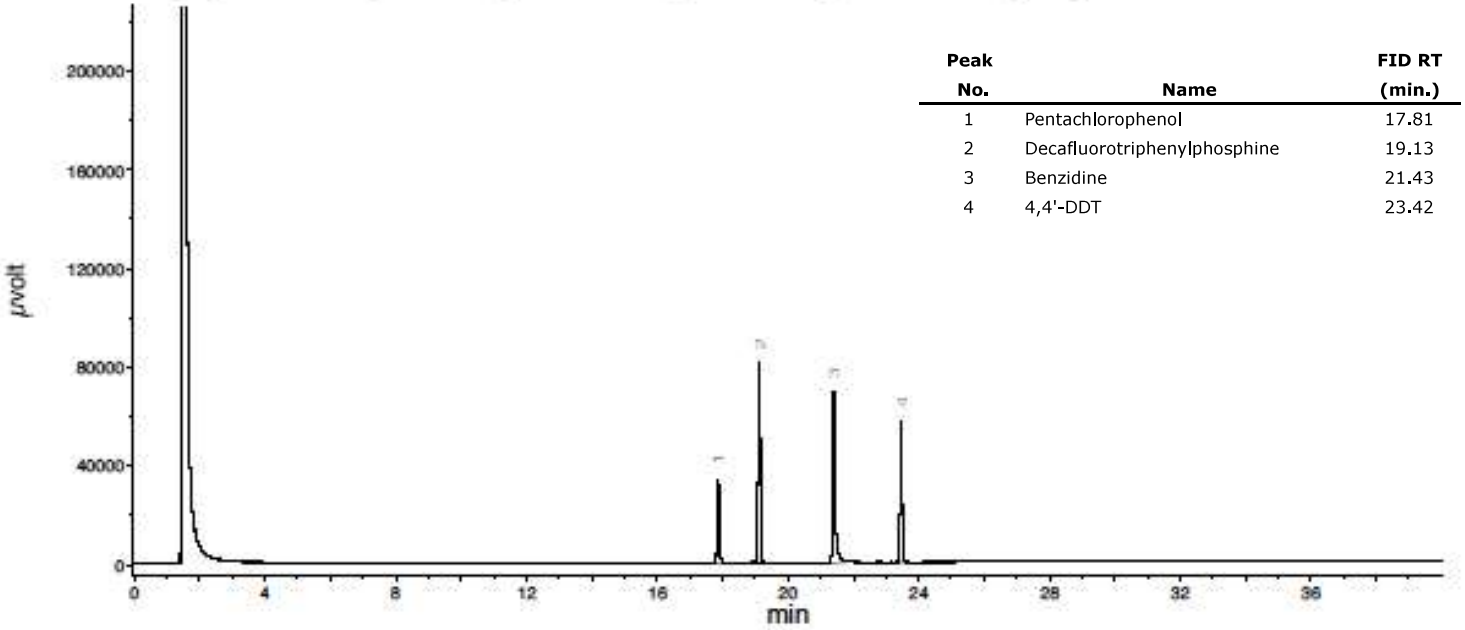
Pentachlorophenol	16.09
Decafluorotriphenylphosphine	17.42
Benzidine	19.98
4,4'-DDT	22.01

Run 37, "P43030 L112519 [500µg/mL in MeCl2]"

Run Length: 40.00 min, 23999 points at 10 points/second.
Created: Fri, Nov 29, 2019 at 5:44:25 PM.
Sampled: Sequence "112819-GC4M2", Method "GC4-M2".
Analyzed using Method "GC4-M2".

Comments

GC4-M2 Analysis by Melissa Stonier
Column ID SPB-5 L#60062-01A 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates; Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) =360 mLOven Temp 1 = 50°C (1 min).
Rate = 10°C/min, Oven Temp 2 = 300°C (14 min), Total Run Time = 40 Minutes. Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = eDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 4



Peak No.	Name	FID RT (min.)
1	Pentachlorophenol	17.81
2	Decafluorotriphenylphosphine	19.13
3	Benzidine	21.43
4	4,4'-DDT	23.42

Reagent

MSS_AB_HCB_00008

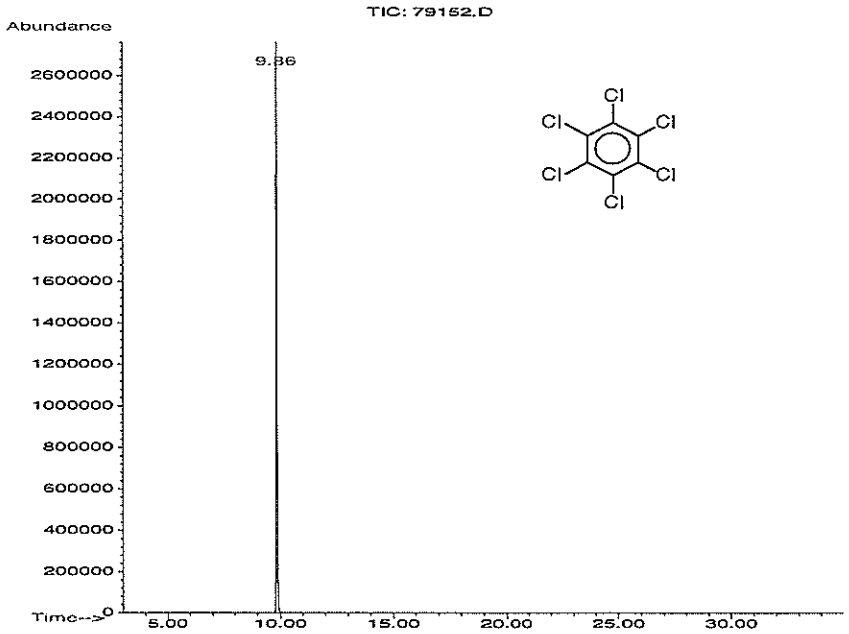
CERTIFIED WEIGHT REPORT

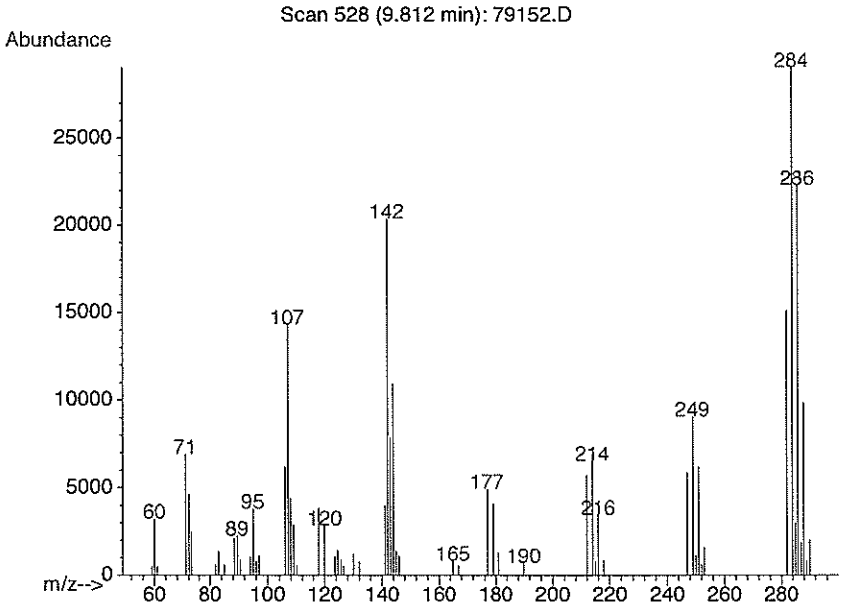
Part Number:	79152	**Solvent(s):**	**Lot#**
Lot Number:	060519	Methylene chloride	102968
Description:	Hexachlorobenzene		
Expiration Date:	060524		
Recommended Storage:	Refrigerate (4 °C)		
Nominal Concentration (µg/mL):	1000		
NIST Test ID#:	6UTB	5E-05 Balance Uncertainty	
Weight(s) shown below were combined and diluted to (mL):	30.0	0.002 Flask Uncertainty	

		060519
Formulated By:	Prashant Chauhan	DATE
		060519
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. Hexachlorobenzene	195	051697	1000	99	0.2	0.03033	0.03050	1005.7	5.2	118-74-1	N/A	orl-rat 10g/kg

Method GC7MSD-1.M: Column: SPB-608 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Nicole Davis.





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Reagent

MSS_AB_NITROS_00006

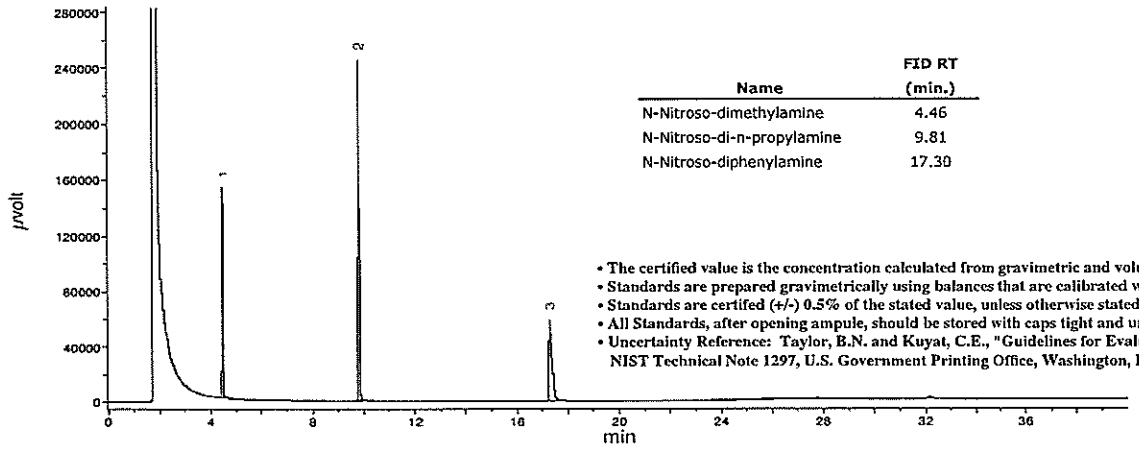
CERTIFIED WEIGHT REPORT

Part Number:	19222	**Solvent(s):**	**Lot#**
Lot Number:	042320	Methanol	DX932-US
Description:	EPA Method 8070 - Nitrosamines		
	3 components		
Expiration Date:	042323		
Recommended Storage:	Freezer (0 °C)		
Nominal Concentration (µg/mL):	2000		
NIST Test ID#:	6UTB	5E-05	Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL):	25.0	0.002	Flask Uncertainty

		042320
Formulated By:	Mario Luis	DATE
		042320
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. N-Nitrosodimethylamine	233	101317	2000	98.5	0.2	0.05077	0.05080	2001.2	9.0	62-75-9	N/A	orl-rat 58mg/kg
2. N-Nitrosodi-n-propylamine	232	OPAGF	2000	98	0.2	0.05103	0.05110	2002.8	9.1	621-64-7	N/A	orl-rat 480mg/kg
3. N-Nitrosodiphenylamine	234	FGE01	2000	98	0.2	0.05103	0.05120	2006.7	9.1	86-30-6	N/A	orl-rat 2140mg/kg

Comments
GC4-M2 Analysis by Candice Warren
Column ID SPB-5 30 meter x 0.53mm x 0.5um Film Thickness.
Flow rates; Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) =360 mLOven Temp 1 = 50°C (1 min).
Rate = 10°C/min, Oven Temp 2 = 300°C (14 min), Total Run Time = 40 Minutes. Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = eDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 4



Name	FID RT (min.)
N-Nitroso-dimethylamine	4.46
N-Nitroso-di-n-propylamine	9.81
N-Nitroso-diphenylamine	17.39

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Reagent

MSS_AB_PAHSTD_00009

CERTIFIED WEIGHT REPORT

Part Number: 93462
Lot Number: 060518
Description: PAH Standard
30 components
Expiration Date: 060523
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 2684186

Solvent(s):	Lot#
Methylene chloride	76782

5E-05 Balance Uncertainty

Volume(s) shown below were combined and diluted to (mL): 20.0 0.002 Flask Uncertainty

Formulated By:	Mario Luis	060518 DATE
Reviewed By:	Pedro L. Rentas	060518 DATE

	Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acenaphthene	10007	060118	0.50	10.00	0.006	2000.1	1000.8	4.2	83-32-9	N/A	ipr-rat 600mg/kg
2.	Acenaphthylene	10007	060118	0.50	10.00	0.006	2000.2	1000.8	4.2	208-96-8	N/A	N/A
3.	Anthracene	10007	060118	0.50	10.00	0.006	2000.3	1000.9	4.2	120-12-7	0.2mg/m3 (8H)	ipr-mus 430mg/kg
4.	Benzo(a)anthracene	10007	060118	0.50	10.00	0.006	2000.9	1001.2	4.2	56-55-3	N/A	N/A
5.	Benzo(a)pyrene	10007	060118	0.50	10.00	0.006	2000.3	1000.9	4.2	50-32-8	0.2mg/m3 (8H)	scu-rat 50mg/kg
6.	Benzo(b)fluoranthene	10007	060118	0.50	10.00	0.006	2000.7	1001.1	4.2	205-99-2	N/A	N/A
7.	Benzo(k)fluoranthene	10007	060118	0.50	10.00	0.006	2000.6	1001.0	4.2	207-08-9	N/A	N/A
8.	Benzo(g,h,i)perylene	10007	060118	0.50	10.00	0.006	2000.4	1000.9	4.2	191-24-2	N/A	N/A
9.	Carbazole	10007	060118	0.50	10.00	0.006	2000.7	1001.1	4.3	86-74-8	N/A	ipr-mus 200mg/kg
10.	Chrysene	10007	060118	0.50	10.00	0.006	2000.4	1001.0	4.3	218-01-9	0.2mg/m3	N/A
11.	Dibenzo(a,h)anthracene	10007	060118	0.50	10.00	0.006	2000.5	1001.0	4.2	53-70-3	0.2mg/m3	N/A
12.	Fluoranthene	10007	060118	0.50	10.00	0.006	2000.5	1001.0	4.3	206-44-0	N/A	orl-rat 2000mg/kg
13.	Fluorene	10007	060118	0.50	10.00	0.006	2000.4	1001.0	4.3	86-73-7	N/A	ipr-mus 2 g/kg
14.	Indeno(1,2,3-cd)pyrene	10007	060118	0.50	10.00	0.006	2000.3	1000.9	4.2	193-39-5	N/A	N/A
15.	Naphthalene	10007	060118	0.50	10.00	0.006	2000.8	1001.2	4.2	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
16.	Phenanthrene	10007	060118	0.50	10.00	0.006	2000.8	1001.2	4.2	85-01-8	0.2mg/m3/8H	orl-mus 700mg/kg
17.	Pyrene	10007	060118	0.50	10.00	0.006	2000.0	1000.8	4.3	129-00-0	0.2mg/m3/8H	orl-rat 2700mg/kg
18.	Benzo(e)pyrene	94851	031416	0.50	10.00	0.006	2001.9	1001.7	4.3	192-97-2	N/A	N/A
19.	Biphenyl	94851	031416	0.50	10.00	0.006	2000.7	1001.1	4.3	92-52-4	0.2 ppm(1mg/m3/8H)	orl-rat 2400mg/kg
20.	Decalin (49% cis, 51% trans)	94851	031416	0.50	10.00	0.006	2002.1	1001.8	4.4	91-17-8	N/A	N/A
21.	Dibenzofuran	94851	031416	0.50	10.00	0.006	2001.3	1001.4	4.4	132-64-9	N/A	N/A
22.	Dibenzothiophene	94851	031416	0.50	10.00	0.006	2001.3	1001.4	4.4	132-65-0	N/A	orl-mus 470 mg/kg
23.	2,6-Dimethylnaphthalene	94851	031416	0.50	10.00	0.006	2004.9	1003.2	4.4	581-42-0	N/A	N/A
24.	1-Methylnaphthalene	94851	031416	0.50	10.00	0.006	2003.5	1002.5	4.4	90-12-0	N/A	orl-rat 1840mg/kg
25.	2-Methylnaphthalene	94851	031416	0.50	10.00	0.006	2006.1	1003.8	4.4	91-57-6	N/A	orl-rat 1630mg/kg
26.	1-Methylphenanthrene	94851	031416	0.50	10.00	0.006	2004.4	1002.9	10.2	832-69-9	N/A	N/A
27.	Pentachlorophenol	94851	031416	0.50	10.00	0.006	2006.6	1004.0	4.4	87-86-5	0.5mg/m3/8H (skin)	orl-rat 27mg/kg
28.	Perylene	94851	031416	0.50	10.00	0.006	2002.1	1001.8	4.4	198-55-0	N/A	N/A
29.	Thianaphthene	94851	031416	0.50	10.00	0.006	2003.9	1002.7	4.4	95-15-8	N/A	N/A
30.	2,3,5-Trimethylnaphthalene	94851	031416	0.50	10.00	0.006	2002.9	1002.2	4.5	2245-38-7	N/A	N/A

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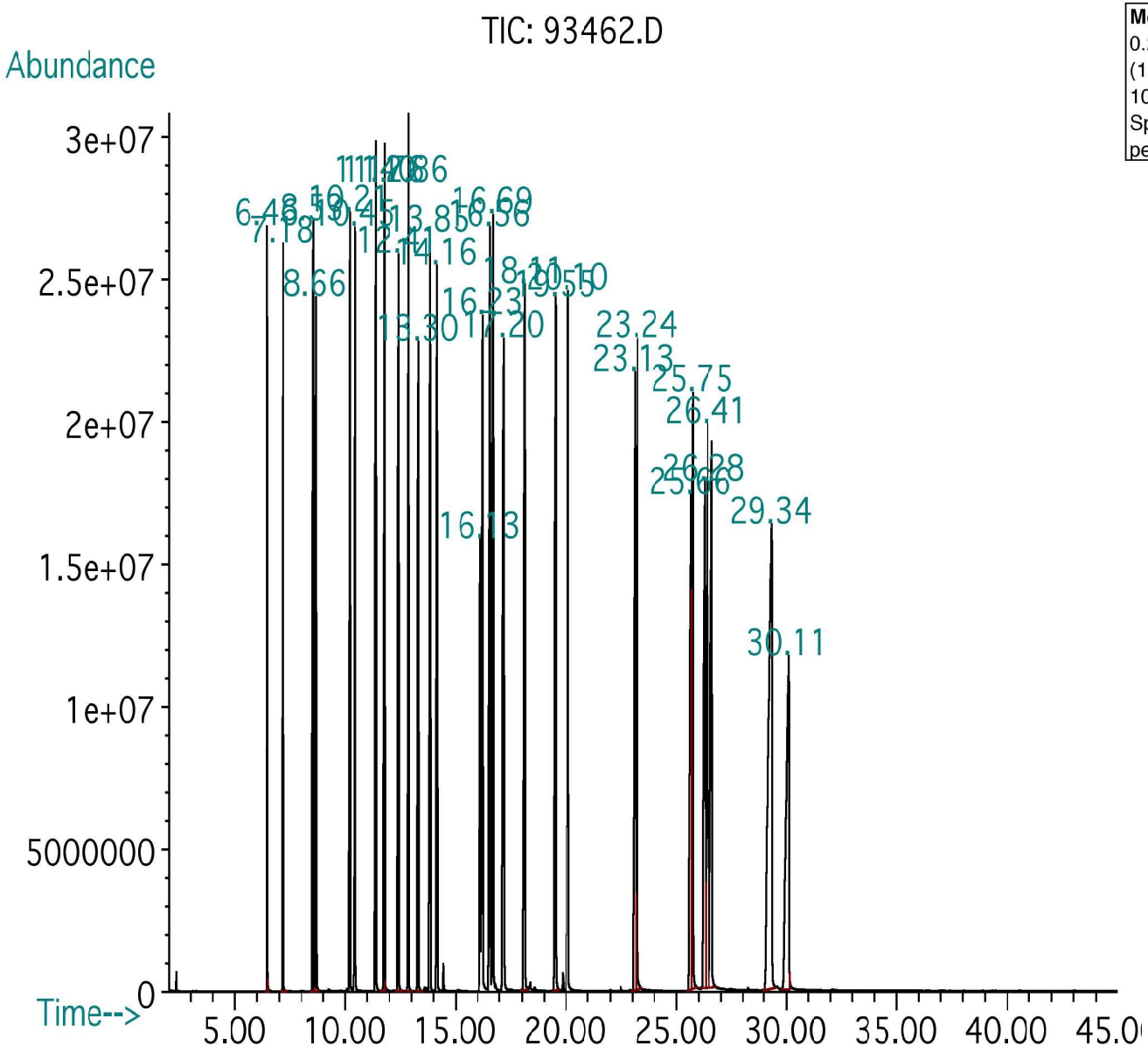
- **Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**



Method GC8MSD-2Long: Column:SPB-5 (30m X 0.25mm ID X 0.25μm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (14min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Gina McLane.

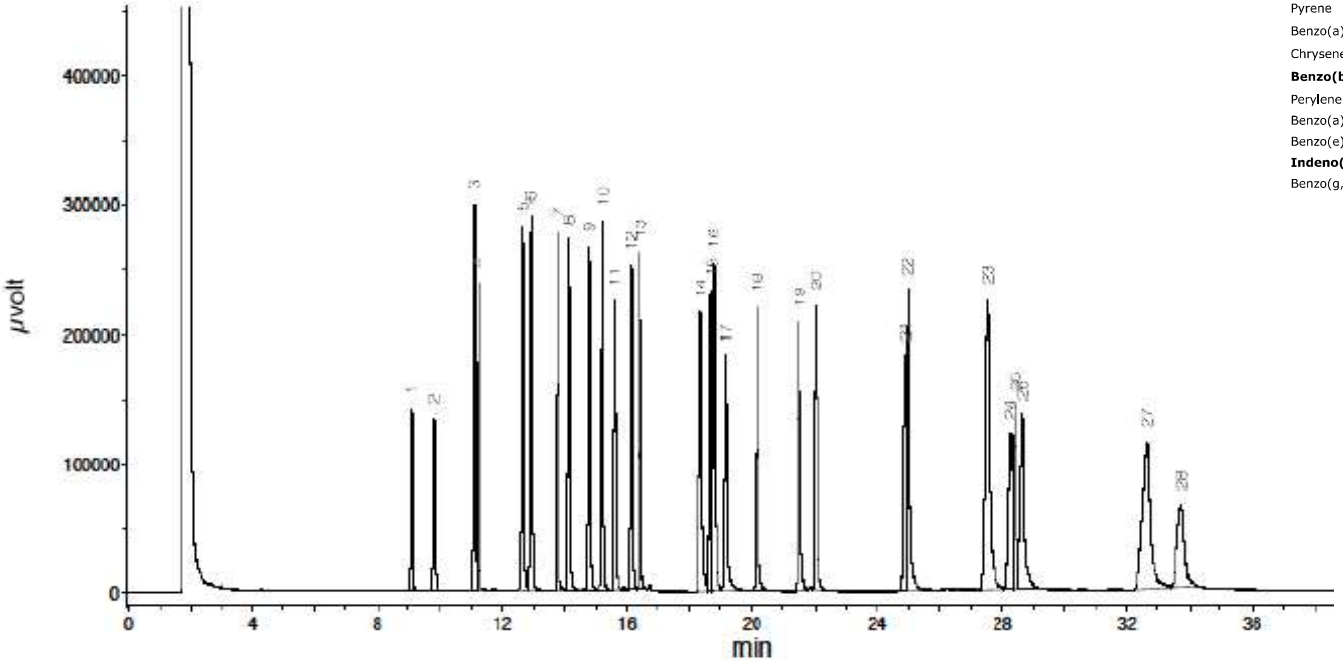
Retention Time (min.)	
Decahydronaphthalene (Decalin) (isomer)	6.46
Decahydronaphthalene (Decalin) (isomer)	7.18
Naphthalene	8.53
Thianaphthene	8.66
2-Methylnaphthalene	10.21
1-Methylnaphthalene	10.45
Biphenyl	11.4
2,6-Dimethylnaphthalene	11.76
Acenaphthylene	12.41
Acenaphthene	12.86
Dibenzofuran	13.3
2,3,5-Trimethylnaphthalene	13.85
Fluorene	14.16
Pentachlorophenol	16.13
Dibenzothiophene	16.23
Phenanthrene	16.56
Anthracene	16.69
Carbazole	17.2
1-Methylphenanthrene	18.11
Fluoranthene	19.55
Pyrene	20.1
Benzo(a)anthracene	23.13
Chrysene	23.24
Benzo(b)fluoranthene	25.66
Benzo(k)fluoranthene	25.75
Perylene	26.28
Benzo(a)pyrene	26.41
Benzo(e)pyrene	26.61
Indeno(1,2,3-cd)pyrene	29.34
Dibenzo(a,h)anthracene	29.34
Benzo(g,h,i)perylene	30.11

Run 3, "P93462 L060518 [1000µg/mL in MeCl2]"

Run Length: 40.00 min, 23999 points at 10 points/second.
Created: Wed, Jun 6, 2018 at 1:01:41 PM.
Sampled: Sequence "060618-GC9M2", Method "GC9-M2".
Analyzed using Method "GC9-M2".

Comments

GC9-M2 Analysis by Candice Warren
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates; Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) =360 mLOven Temp 1 = 50°C (1 min).
Rate = 10°C/min, Oven Temp 2 = 300°C (14 min), Total Run Time = 40 Minutes. Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = eDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 4



Name	FID RT (min.)
Decahydronaphthalene (Decalin) (isomer)	9.10
Decahydronaphthalene (Decalin) (isomer)	9.81
Naphthalene	11.10
Thianaphthene	11.23
2-Methylnaphthalene	12.67
1-Methylnaphthalene	12.93
Biphenyl	13.77
2,6-Dimethylnaphthalene	14.13
Acenaphthylene	14.78
Acenaphthene	15.22
Dibenzofuran	15.59
2,3,5-Trimethylnaphthalene	16.12
Fluorene	16.41
Pentachlorophenol/Dibenzothiophene	**18.36**
Phenanthrene	18.66
Anthracene	18.77
Carbazole	19.15
1-Methylphenanthrene	20.14
Fluoranthene	21.50
Pyrene	22.03
Benzo(a)anthracene	24.89
Chrysene	24.99
Benzo(b)fluoranthene/Benzo(k)fluoranthene	**27.54**
Perylene	28.26
Benzo(a)pyrene	28.40
Benzo(e)pyrene	28.65
Indeno(1,2,3-cd)pyrene/Dibenzo(a,h)anthracene	**32.63**
Benzo(g,h,i)perylene	33.73

Reagent

MSS_AB_PHTHAL_00004

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: **19242**
Lot Number: 102720
Description: EPA Method 606 - Phthalate Esters
6 components
Expiration Date: 102723
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 23060

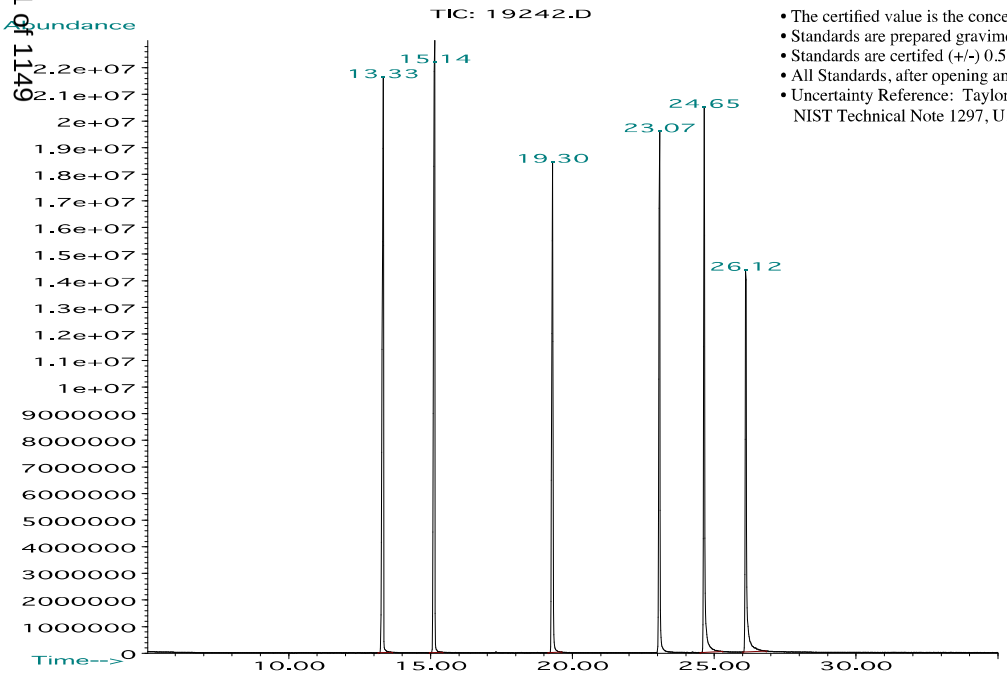
Solvent(s): **Lot#**
Methanol DX932-US

		102720
Formulated By:	Benson Chan	DATE
		102720
Reviewed By:	Pedro L. Rentas	DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 25.0 0.002 Flask Uncertainty

	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.	bis(2-Ethylhexyl) phthalate	179	05312JE	2000	99	0.2	0.05051	0.05059	2003.1	9.0	117-81-7	5mg/m3/8H	orl-rat 30000mg/kg
2.	Di-n-butyl phthalate	58	09119LX	2000	99	0.2	0.05051	0.05059	2003.1	9.0	84-74-2	5mg/m3/8H	orl-rat 8000mg/kg
3.	Dimethyl phthalate	157	07416AT	2000	99	0.2	0.05051	0.05080	2011.4	9.0	131-11-3	5mg/m3/8H	orl-rat 6800mg/kg
4.	Benzyl butyl phthalate	36	MKBH8959V	2000	98	0.2	0.05103	0.05110	2002.8	9.1	85-68-7	N/A	orl-rat 2330mg/kg
5.	Diethyl phthalate	154	10517MW	2000	99	0.2	0.05051	0.05062	2004.3	9.0	84-66-2	5mg/m3/8H	orl-rat 8600mg/kg
6.	Di-n-octyl phthalate	107	FIE01	2000	99	0.2	0.05051	0.05057	2002.3	9.0	117-84-0	N/A	orl-rat 47000mg/kg

Method GC8MSD-3.M: Column: SPB-5 (30m X 0.25mm ID X 0.25µm film thickness), Temp 1 = 50°C (1 min.), Temp 2 = 300°C 9 min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 300°C.Split Ratio = 100:1, Sample Rate=2. 0.5µL Standard injection Analysis performed by Melissa Stonier.



- 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).

Peak No.	Name	MSD RT (min.)
1	Dimethyl phthalate	13.33
2	Diethyl phthalate	15.14
3	Di-n-butyl phthalate	19.30
4	Benzyl butyl phthalate	23.07
5	bis(2-Ethylhexyl) phthalate	24.65
6	Di-n-octyl phthalate	26.12

Reagent

MSS_AB_QUIN_00006

CERTIFIED WEIGHT REPORT

Part Number: **70353**
Lot Number: 060419
Description: Quinoline

Expiration Date: 060422
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

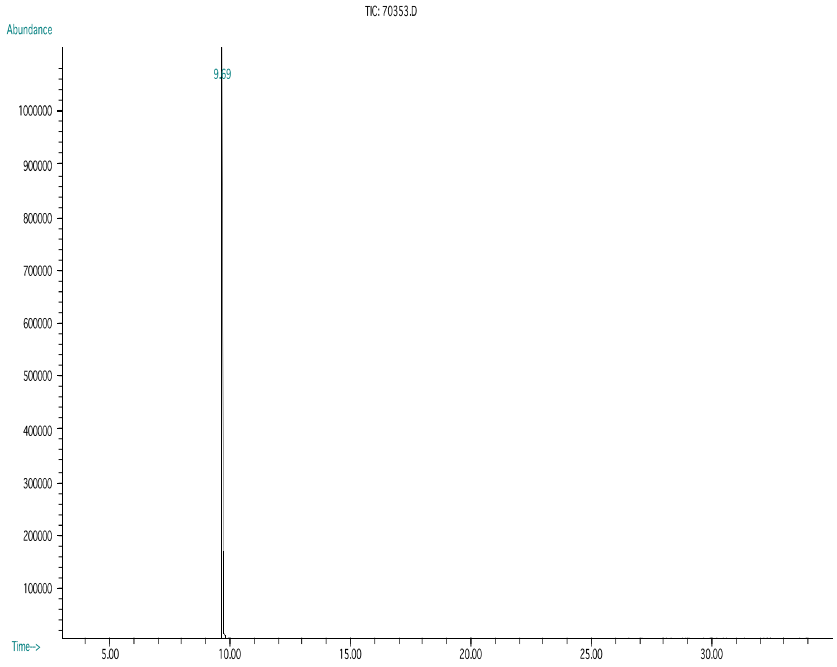
Solvent(s): **Lot#**
Methylene chloride 102968

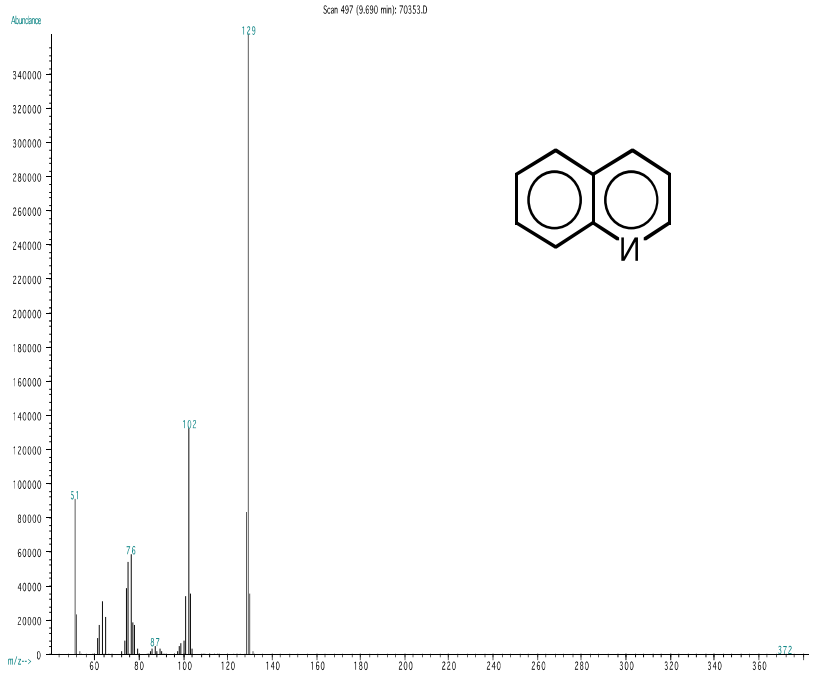
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 200.0 0.058 Flask Uncertainty

Formulated By:	Prashant Chauhan	060419 DATE
Reviewed By:	Pedro L. Rentas	060419 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. Quinoline	353	01501KY	1000	98	0.2	0.20411	0.20440	1001.4	4.2	91-22-5	N/A	N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.





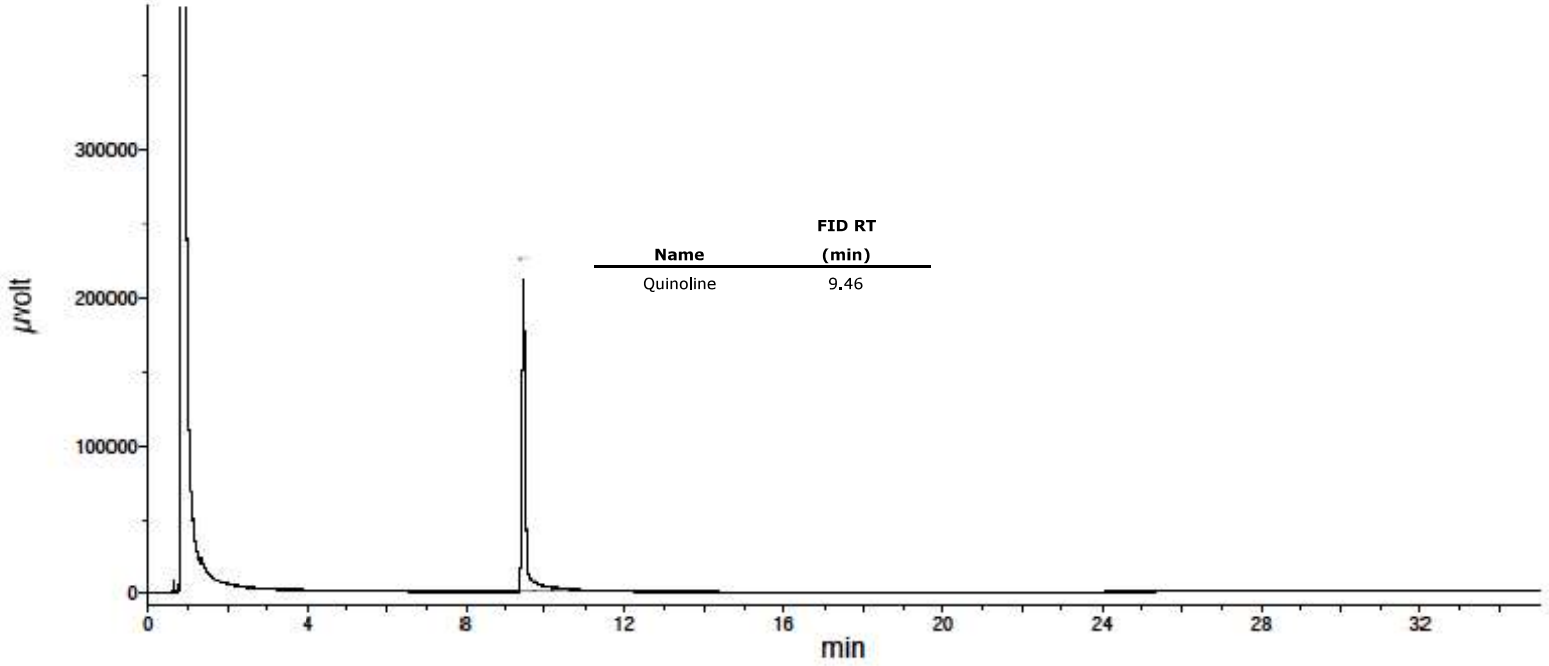
- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certifed (+/-) 0.5% of the stated 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).**

Run 19, "P70353 L060419 [1000µg/mL in MeCl2]"

Run Length: 35.00 min, 20999 points at 10 points/second.
Created: Wed, Jun 5, 2019 at 1:07:08 AM.
Sampled: Sequence "060419-GC4M1", Method "GC4-M1".
Analyzed using Method "GC4-M1".

Comments

GC4-M1 Analysis by Candice Warren
Column ID SPB5 L#60062-01A : 30 meter x 0.53mm x 1.5um Film Thickness
Flow rates; Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL, Hydrogen (detector) = 30 mL, Air (detector) =360 mL
Oven Temp 1 = 50°C (1 min), Rate = 10°C/min, Oven Temp 2 = 300°C (9 min), Total Run Time = 35 Minutes.
Injector Temp = 200°C, FID Temp = 300°C, FID Signal = eDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 3



Reagent

MSS_FV8270_IS_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 Composition

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. : 576940 **Lot No.:** A0166482

Description : Custom Internal Standard

Custom Internal Standard 1,000µg/mL, Methylene chloride, 1mL/ampul

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

Expiration Date : November 30, 2023 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dichlorobenzene-d4	1,001.3 µg/mL	+/- 5.8215	µg/mL	Gravimetric
	CAS # 3855-82-1 (Lot PR-30447)		+/- 45.0977	µg/mL	Unstressed
	Purity 99%		+/- 50.0414	µg/mL	Stressed
2	Naphthalene-d8	1,003.7 µg/mL	+/- 5.8358	µg/mL	Gravimetric
	CAS # 1146-65-2 (Lot M-1452)		+/- 45.2087	µg/mL	Unstressed
	Purity 99%		+/- 50.1647	µg/mL	Stressed
3	Acenaphthene-d10	1,005.7 µg/mL	+/- 5.8474	µg/mL	Gravimetric
	CAS # 15067-26-2 (Lot PR-30913)		+/- 45.2988	µg/mL	Unstressed
	Purity 99%		+/- 50.2646	µg/mL	Stressed
4	Phenanthrene-d10	1,006.9 µg/mL	+/- 5.8540	µg/mL	Gravimetric
	CAS # 1517-22-2 (Lot PR-29119)		+/- 45.3499	µg/mL	Unstressed
	Purity 99%		+/- 50.3213	µg/mL	Stressed
5	Pyrene-d10	1,008.7 µg/mL	+/- 5.8649	µg/mL	Gravimetric
	CAS # 1718-52-1 (Lot PR-30304)		+/- 45.4340	µg/mL	Unstressed
	Purity 99%		+/- 50.4146	µg/mL	Stressed
6	Perylene-d12	1,004.0 µg/mL	+/- 5.8373	µg/mL	Gravimetric
	CAS # 1520-96-3 (Lot PR-30020)		+/- 45.2208	µg/mL	Unstressed
	Purity 99%		+/- 50.1780	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

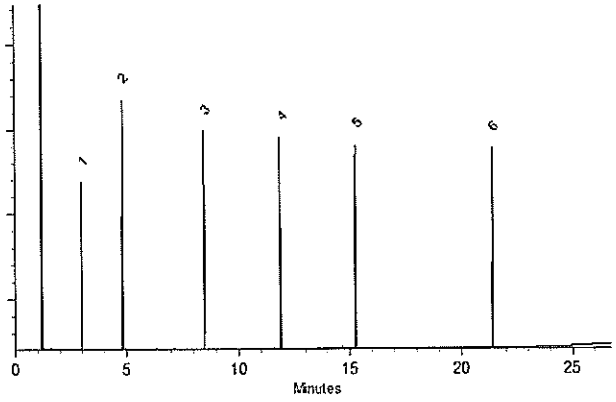
Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:
250°C

Det. Temp:
340°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: 18-Nov-2020 **Balance:** B442140311

Justine Albertson - Operations Tech-ARM QC

Date Passed: 19-Nov-2020

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

Reagent

MSS_SIM_SURR_00006

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

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. : 569089 **Lot No.:** A0168817

Description : Custom SIM Surrogates Standard

Custom SIM Surrogates Standard 1,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : January 31, 2027 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

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

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1-Methylnaphthalene-d10	1,004.0 µg/mL	+/- 10.1140 µg/mL	Gravimetric
	CAS # 38072-94-5 (Lot M-483)		+/- 45.9689 µg/mL	Unstressed
	Purity 99%		+/- 50.8532 µg/mL	Stressed
2	Benzo(a)pyrene-d12	1,004.0 µg/mL	+/- 10.1140 µg/mL	Gravimetric
	CAS # 63466-71-7 (Lot PR-30235)		+/- 45.9689 µg/mL	Unstressed
	Purity 99%		+/- 50.8532 µg/mL	Stressed
3	Fluoranthene-d10	1,004.0 µg/mL	+/- 10.1140 µg/mL	Gravimetric
	CAS # 93951-69-0 (Lot PR-20668)		+/- 45.9689 µg/mL	Unstressed
	Purity 99%		+/- 50.8532 µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tom Suckar - Mix Technician

Date Mixed: 05-Feb-2021 **Balance:** B442140311

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

MSS_SIMTEL_IS_00010

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

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. : 31206 **Lot No.:** A0170322

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

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

Expiration Date : February 28, 2027 **Storage:** 10°C or colder

Handling: Sonication required. Mix 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	1,4-Dichlorobenzene-d4		2,019.3 µg/mL	+/- 11.7406	µg/mL	Gravimetric
	CAS # 3855-82-1	(Lot PR-30447)		+/- 90.9520	µg/mL	Unstressed
	Purity 99%			+/- 100.9225	µg/mL	Stressed
2	Naphthalene-d8		2,015.3 µg/mL	+/- 11.7173	µg/mL	Gravimetric
	CAS # 1146-65-2	(Lot M-1452)		+/- 90.7718	µg/mL	Unstressed
	Purity 99%			+/- 100.7225	µg/mL	Stressed
3	Acenaphthene-d10		2,010.0 µg/mL	+/- 11.6863	µg/mL	Gravimetric
	CAS # 15067-26-2	(Lot PR-30913)		+/- 90.5316	µg/mL	Unstressed
	Purity 99%			+/- 100.4560	µg/mL	Stressed
4	Phenanthrene-d10		2,012.7 µg/mL	+/- 11.7018	µg/mL	Gravimetric
	CAS # 1517-22-2	(Lot PR-29119)		+/- 90.6517	µg/mL	Unstressed
	Purity 99%			+/- 100.5893	µg/mL	Stressed
5	Chrysene-d12		2,020.0 µg/mL	+/- 11.7445	µg/mL	Gravimetric
	CAS # 1719-03-5	(Lot PR-31391)		+/- 90.9820	µg/mL	Unstressed
	Purity 99%			+/- 100.9558	µg/mL	Stressed
6	Perylene-d12		2,018.0 µg/mL	+/- 11.7328	µg/mL	Gravimetric
	CAS # 1520-96-3	(Lot PR-30020)		+/- 90.8919	µg/mL	Unstressed
	Purity 99%			+/- 100.8558	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

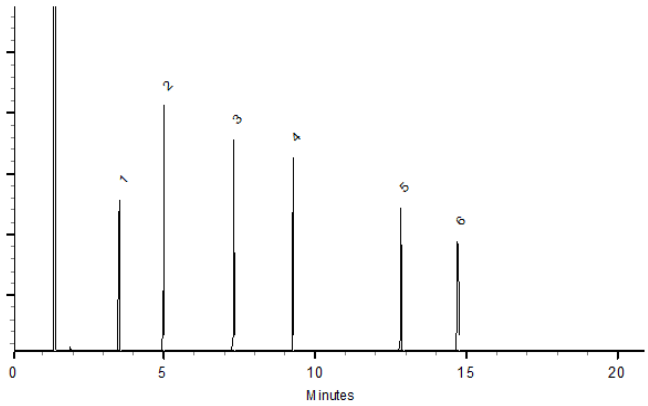
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°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: 18-Mar-2021 **Balance:** B345965662

Justine Albertson - Operations Tech-ARM QC

Date Passed: 23-Mar-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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CERTIFICATE OF ANALYSIS

4-Bromofluorobenzene

CATALOG NUMBER	N-10809-1G
LOT NUMBER	11130200
DATE CERTIFIED	02/03/20
EXPIRATION DATE	02/28/25
CAS NUMBER	460-00-4
MOLECULAR FORMULA	C6H4BrF
MOLECULAR WEIGHT	175.00
STORAGE	Store at room temperature (20 - 25 °C).
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

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

LLR 2032
2-16-21

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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

PJLA
Testing

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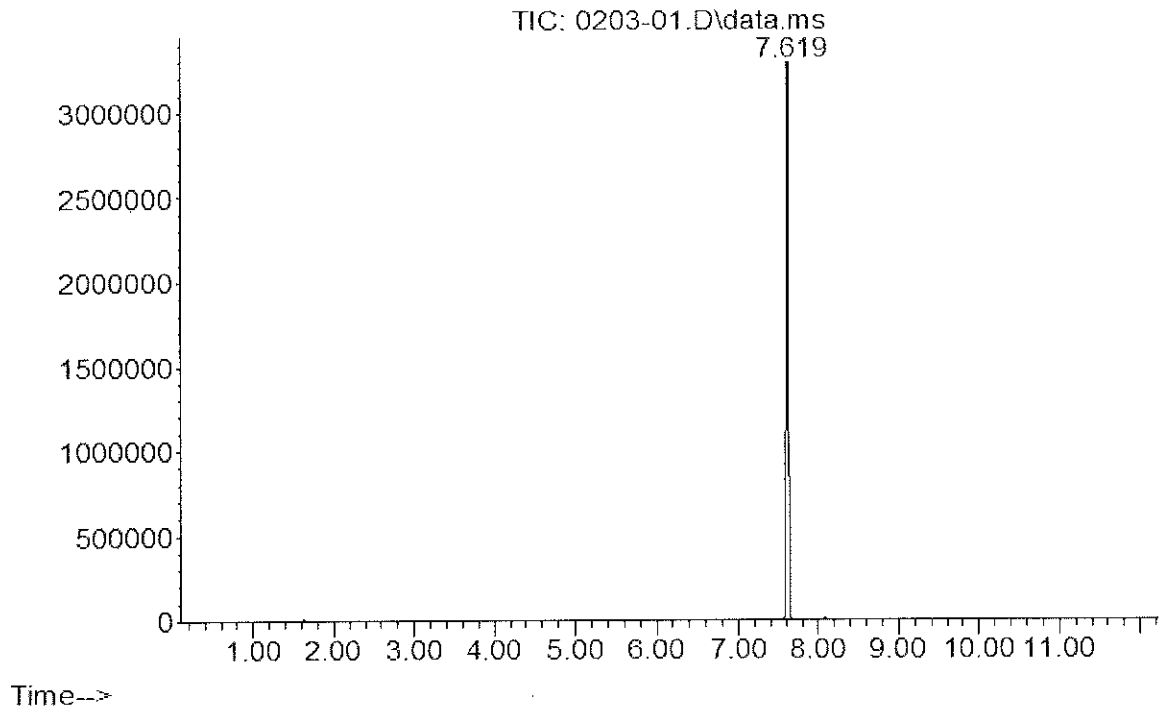
CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-10809-1G
Description:	4-Bromofluorobenzene
Lot Number:	11130200
Expiration Date:	02/28/25



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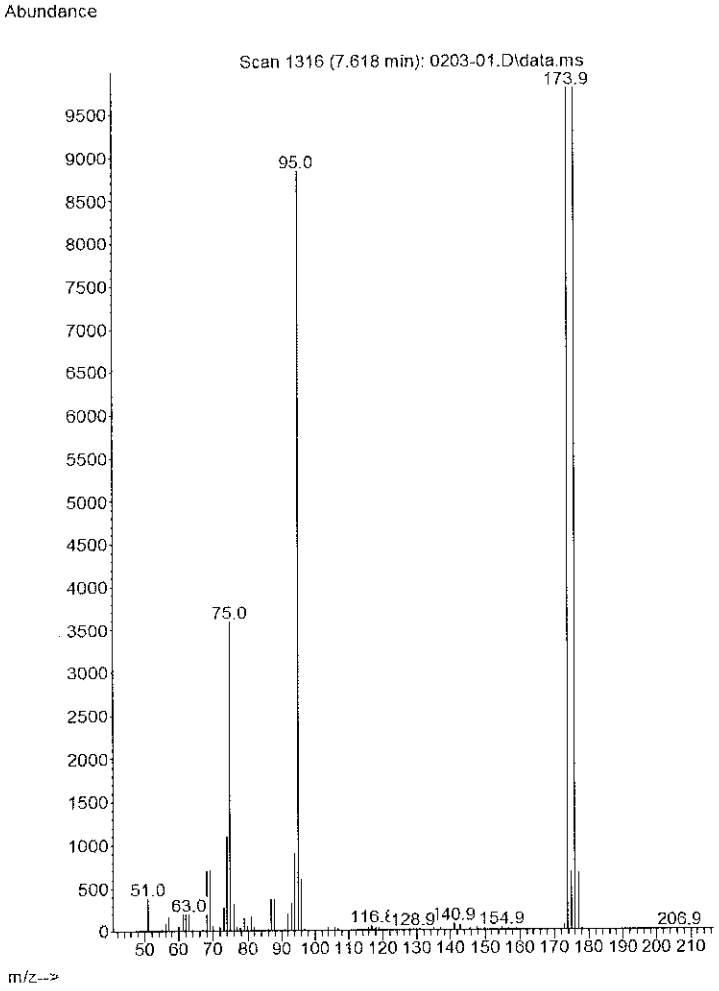
CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-10809-1G
Description:	4-Bromofluorobenzene
Lot Number:	11130200
Expiration Date:	02/28/25



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CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-10809-1G
Description:	4-Bromofluorobenzene
Lot Number:	11130200
Expiration Date:	02/28/25

Chem Service Inc Area Percent Report

Data File: D:\msdchem\2020 DATA\0220\0203-01.D
Acq On : 3 Feb 2020 10:08
Operator :
Sample : N-10809
Misc :
ALS Vial : 96

Integration Parameters: autoint1.e
Integrator: ChemStation

DataAcq Meth:METH1.M
Method : D:\msdchem\2020 DATA\0120\0122-03.D\M-CS5242M2.M

Signal : TIC: 0203-01.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.619	1306	1316	1331	BB	3424525	65045319	100.00%	100.000%

Sum of corrected areas: 65045319

M-CS5242M2.M Mon Feb 03 10:28:54 2020

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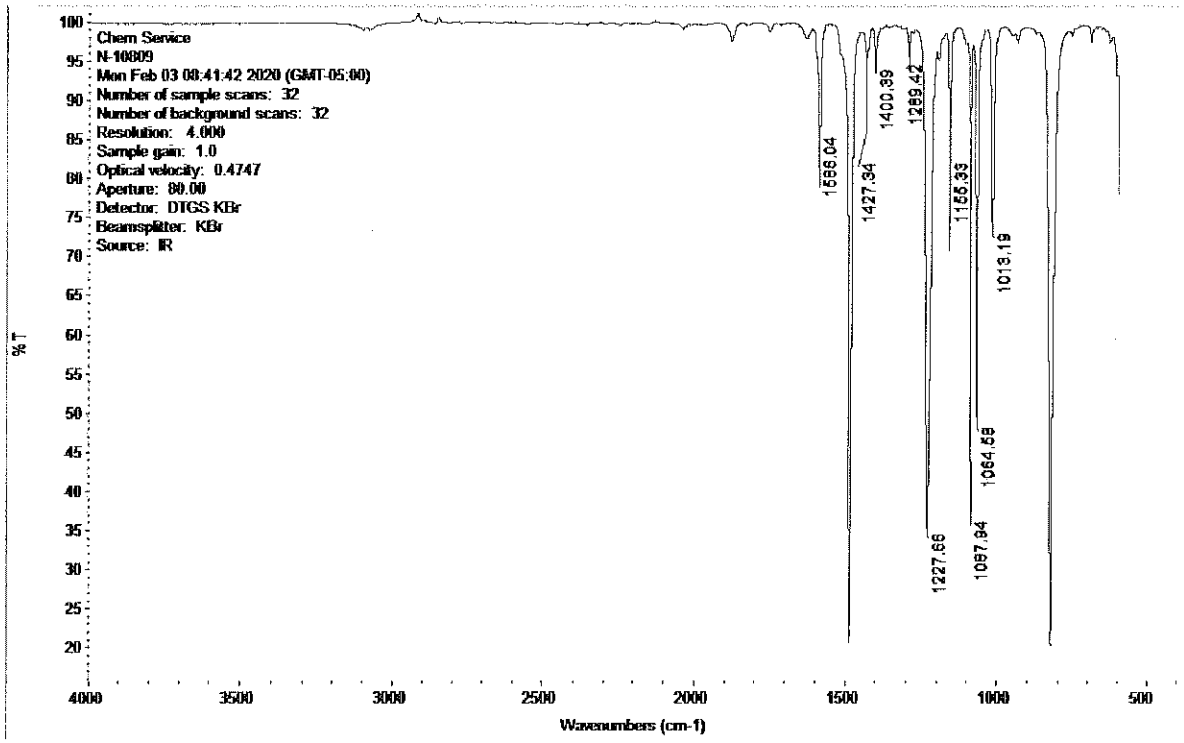
CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-10809-1G
Description:	4-Bromofluorobenzene
Lot Number:	11130200
Expiration Date:	02/28/25



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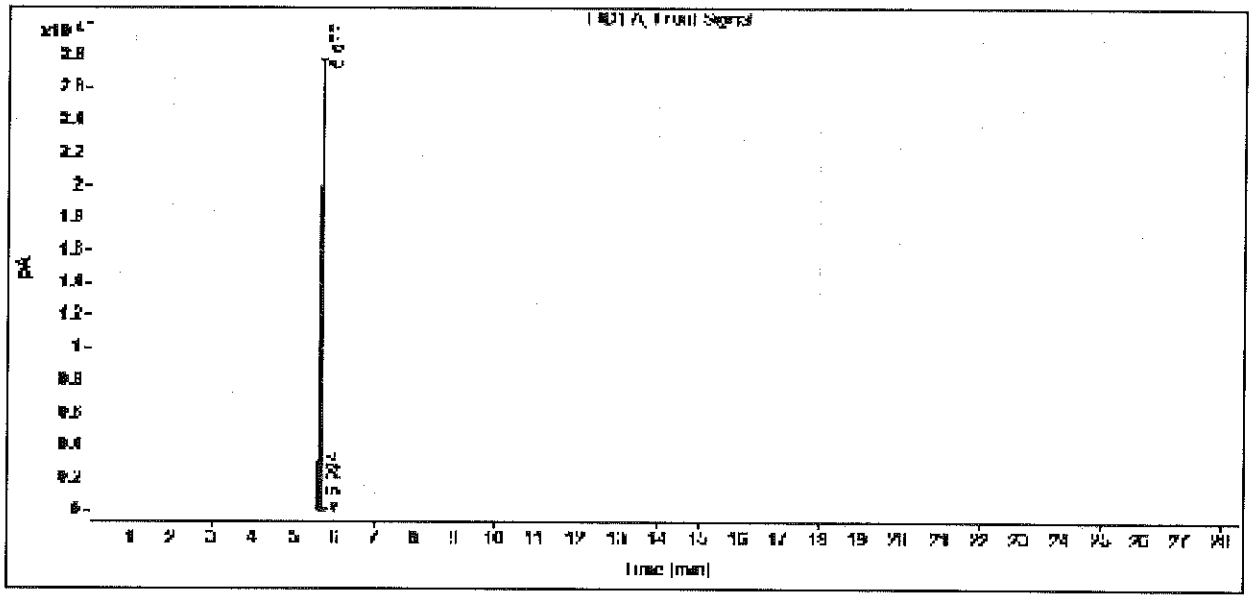
CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2020 DATA\0220\013120 2020-01-31 16-11-28\141F0404.D

Sample name: N-10809

Instrument:	GC 1	**Sample type:**	Sample
Injection date:	1/31/2020 10:29:42 PM	**Location:**	Vial 141
Acq. method:	SCREEN.M	**Injection volume:**	1.0uL
Column name:	Rxl-624Sil (30m x 0.32mm x 1.8um)		



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
5.677	BB S	0.0413	82400.6016	27241.2129	99.7369
5.994	VB	0.0296	217.3697	117.5844	0.2631
		Sum	82617.9712		

PJLA Testing

Reagent

MSV_8260_SS_00528

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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. : 55671 **Lot No.:** A0171410

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 : 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	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 0012016) **Purity** 99%	2,509.0 µg/mL	+/- 14.7242 µg/mL +/- 140.6914 µg/mL +/- 143.9827 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot PR-29377) **Purity** 99%	2,503.0 µg/mL	+/- 14.6890 µg/mL +/- 140.3549 µg/mL +/- 143.6384 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot PR-31750) **Purity** 99%	2,501.5 µg/mL	+/- 14.6802 µg/mL +/- 140.2708 µg/mL +/- 143.5523 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KO) **Purity** 99%	2,520.0 µg/mL	+/- 14.7888 µg/mL +/- 141.3082 µg/mL +/- 144.6140 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)

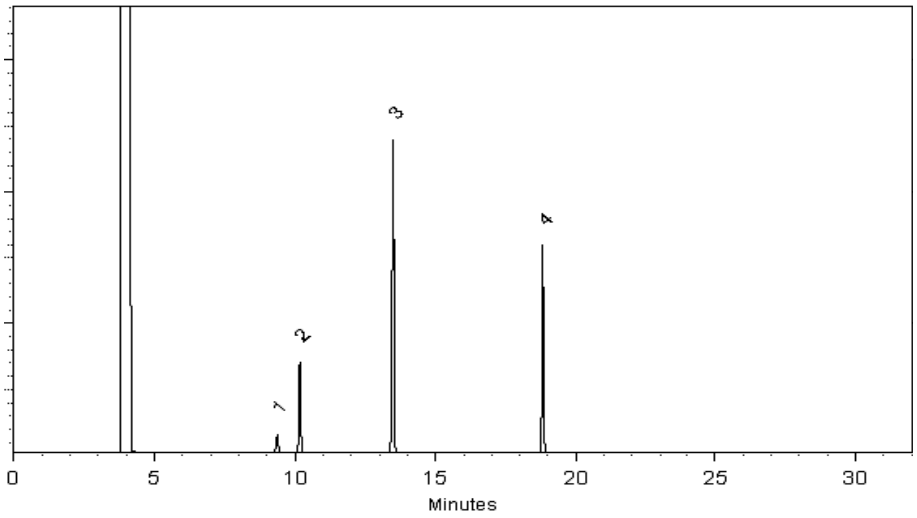
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Sam Moodler - Operations Tech I

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

Alexis Shelow - Operations Tech I

Date Passed: 19-Apr-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_ACROLEIN_00015

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CERTIFICATE OF ANALYSIS

Acrolein

CATALOG NUMBER	RPN-11030-1G
LOT NUMBER	12255200
DATE CERTIFIED	12/04/20
EXPIRATION DATE	12/31/21
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)	93.5

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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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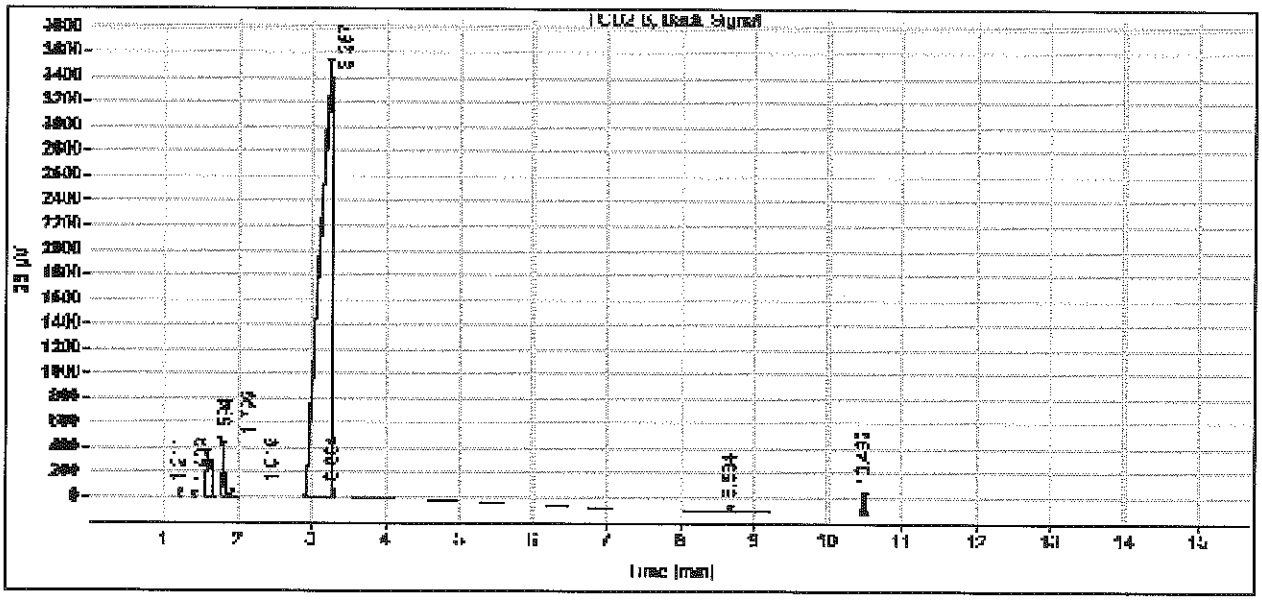
CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2020 DATA\1220\SIG2022772.D

Sample name: Acrolein

Instrument:	GC 1	**Sample type:**	Sample
Injection date:	12/4/2020 1:45:52 PM	**Location:**	Vial 31
Acq. method:	TCD SCREEN.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%
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1.409	BB	0.0247	7.6905	4.7989	0.0184
1.594	BB	0.0629	1551.1411	329.7883	3.7040
1.799	BB	0.0279	730.9922	389.9341	1.7456
1.919	BB	0.0458	50.7625	15.2495	0.1212
3.257	BV	0.1398	39170.9805	3495.0222	93.5384
3.304	VB	0.0206	34.7462	26.0533	0.0830
8.684	BB	0.0316	26.4009	13.0682	0.0630
10.492	BB	0.0367	280.9432	124.5451	0.6021

Sun

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Reagent

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
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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. : 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)

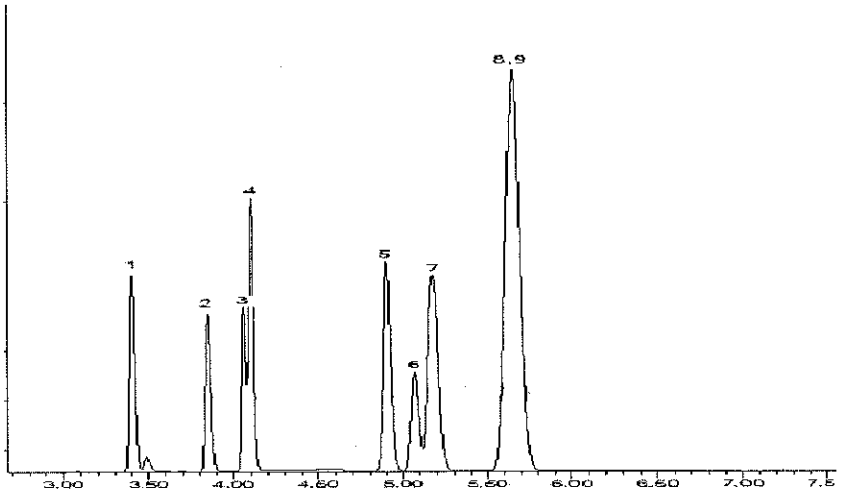
Carrier Gas:
helium-constant flow 2.0 mL/min.

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_00112

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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. : 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)

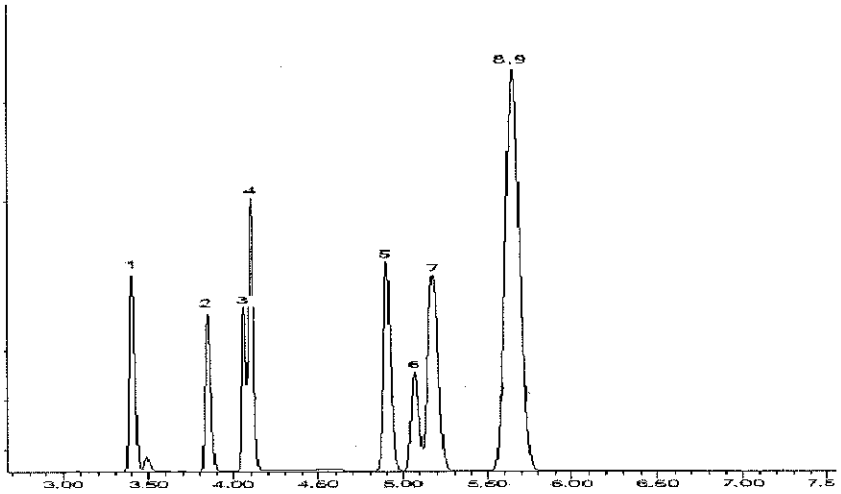
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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)

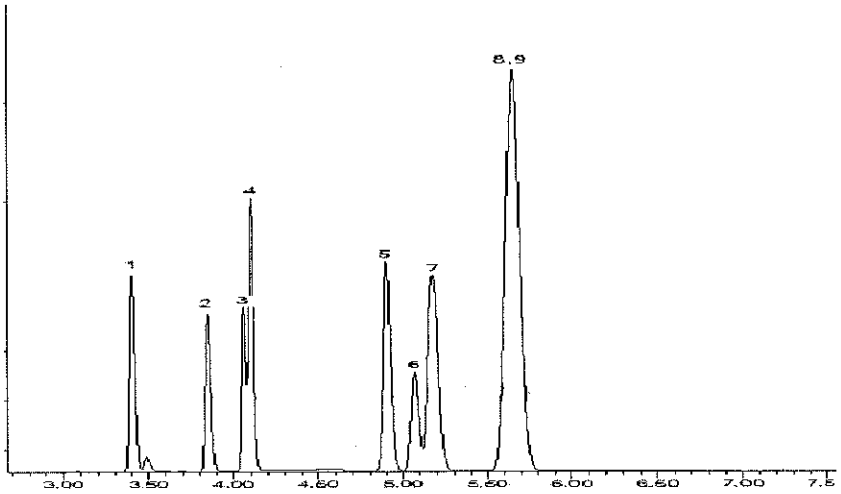
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

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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. : 558267 **Lot No.:** A0175453

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

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Methyl-2-propanol-d10	12,519.0 µg/mL	+/- 73.3015 µg/mL	Gravimetric
	CAS # 53001-22-2 (Lot I-433)		+/- 268.1736 µg/mL	Unstressed
	Purity 99%		+/- 275.9618 µg/mL	Stressed
2	Fluorobenzene	2,505.0 µg/mL	+/- 14.7007 µg/mL	Gravimetric
	CAS # 462-06-6 (Lot BCBZ5549)		+/- 53.6696 µg/mL	Unstressed
	Purity 99%		+/- 55.2277 µg/mL	Stressed
3	Chlorobenzene-d5	2,509.0 µg/mL	+/- 14.7242 µg/mL	Gravimetric
	CAS # 3114-55-4 (Lot PR-29571)		+/- 53.7553 µg/mL	Unstressed
	Purity 99%		+/- 55.3159 µg/mL	Stressed
4	1,4-Dichlorobenzene-d4	2,516.0 µg/mL	+/- 14.7653 µg/mL	Gravimetric
	CAS # 3855-82-1 (Lot PR-30447)		+/- 53.9052 µg/mL	Unstressed
	Purity 99%		+/- 55.4702 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)

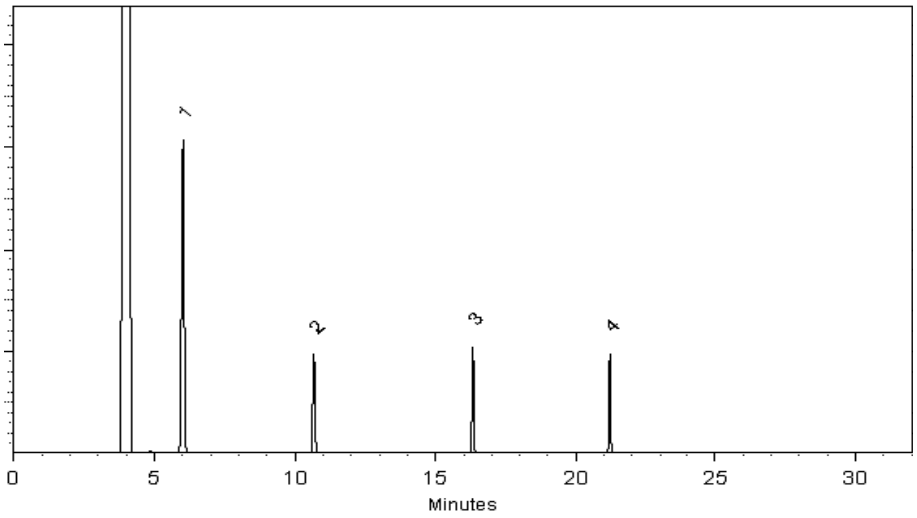
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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: 16-Aug-2021 **Balance:** 1128342314

Marlina Cowan - Operations Tech I

Date Passed: 18-Aug-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.
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25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Cyclohexanone

CATALOG NUMBER	N-11531-1G
LOT NUMBER	11845600
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

COA Form
Revision 3 (3/2015)

PJLA Testing
Accreditation #63520

Print Date: 05/24/21

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info@chemservice.com • www.chemservice.com

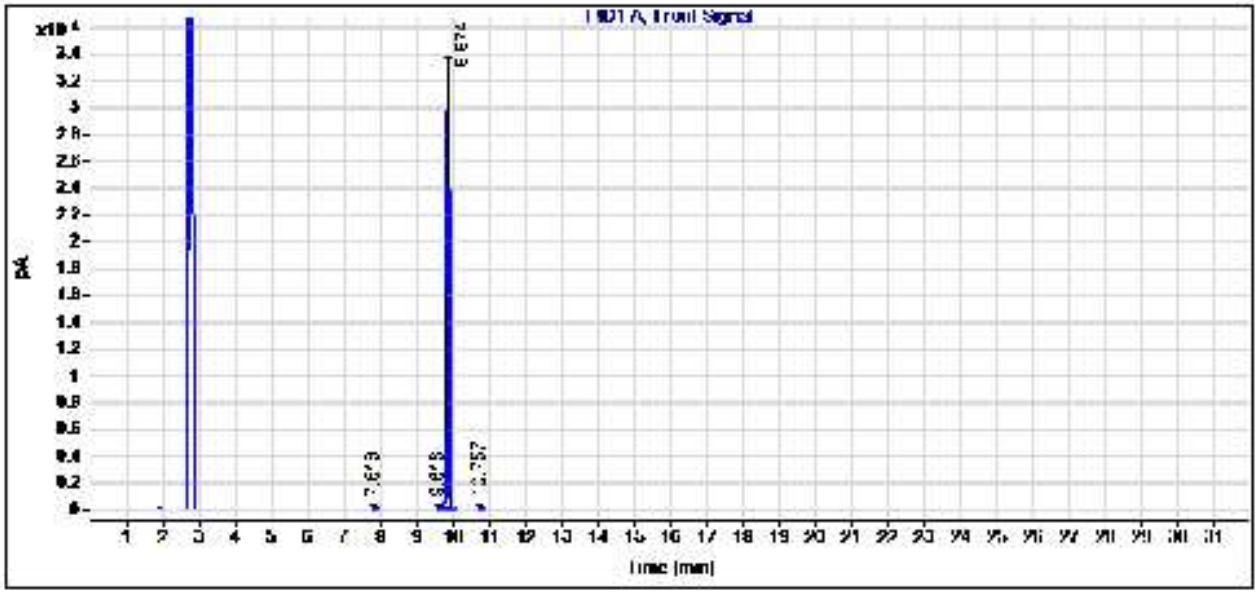
CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\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%
7.818	BB	0.0567	12.4787	2.6631	0.0090
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		

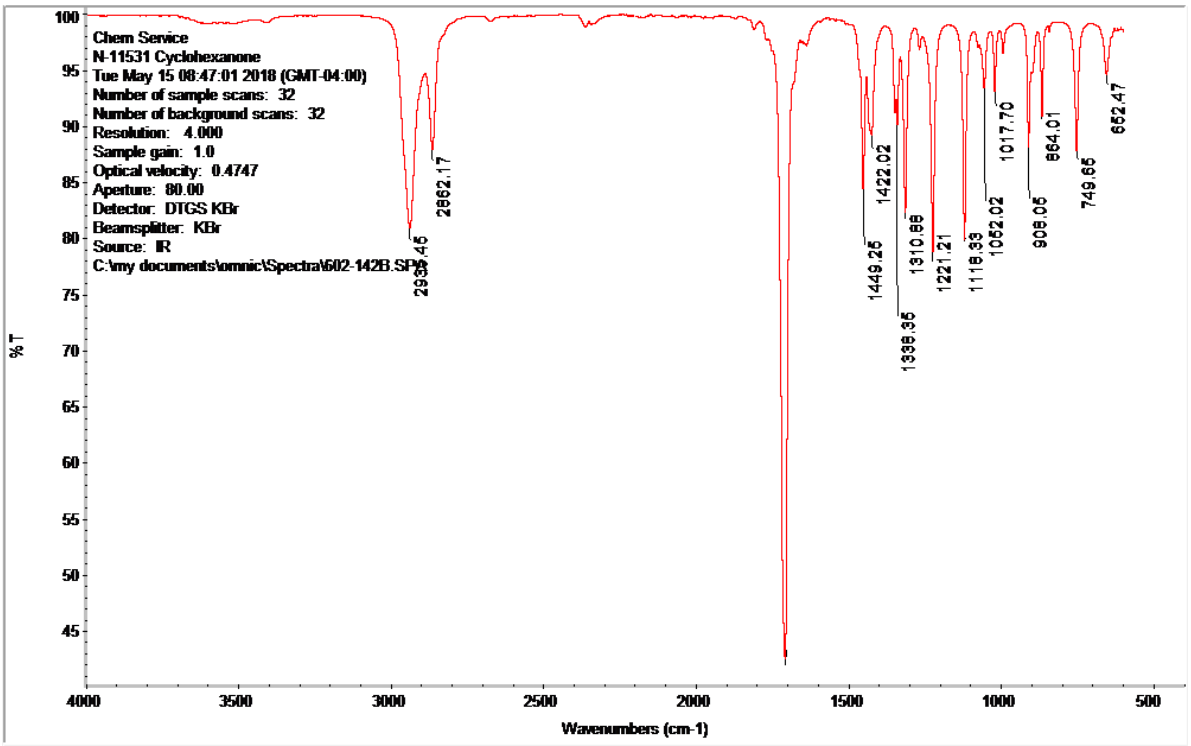
PJLA Testing
Accreditation #63520

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

Analysis Method:

Catalog Number:	N-11531-1G
Description:	Cyclohexanone
Lot Number:	11845600
Expiration Date:	05/31/23



PJLA Testing
Accreditation #63520

Reagent

MSV_M_MIX1SEC_00036

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)

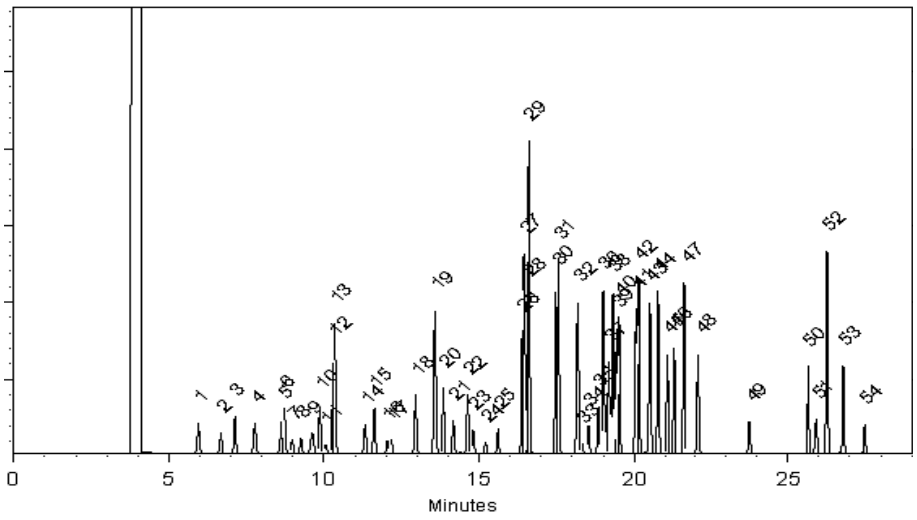
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_MIX1SEC_00048

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	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)

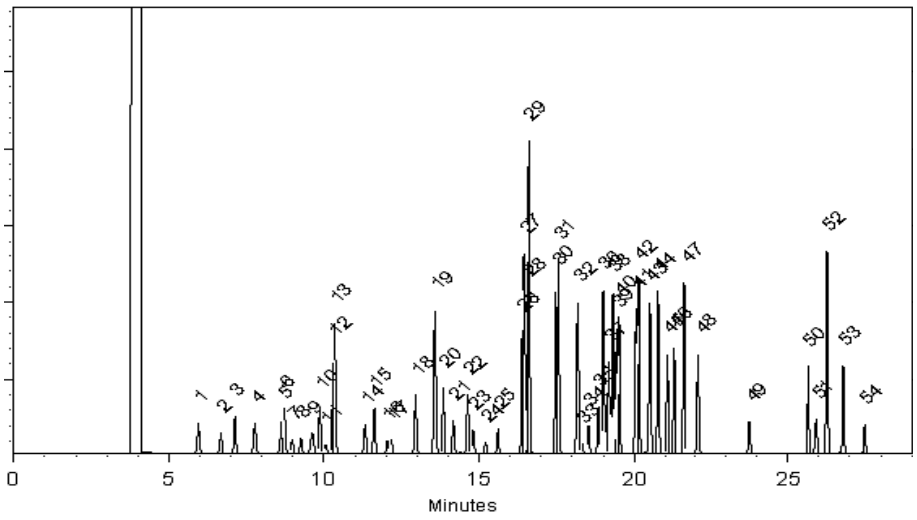
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_MIX2SEC_00037

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom VOC MegaMix®.SEC #2 Standard

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

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

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

Ship: Ambient

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

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

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

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

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

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

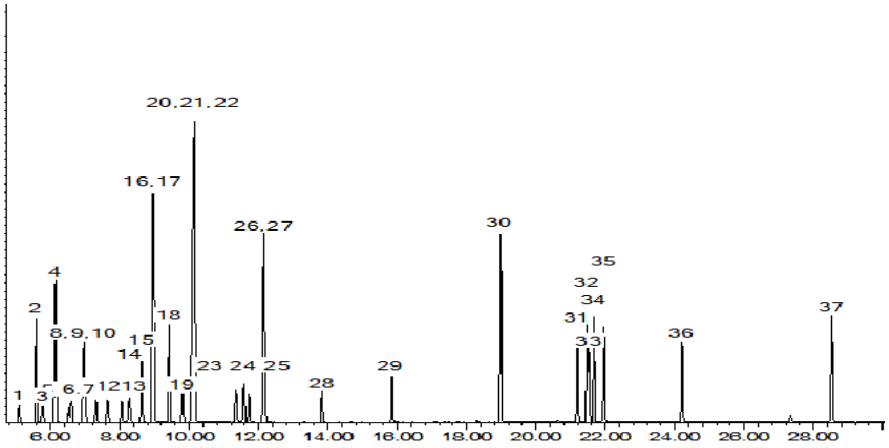
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

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

Alexis Shelow - Operations Tech I

Date Passed: 04-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX2SEC_00054

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom VOC MegaMix®.SEC #2 Standard

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

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

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

Ship: Ambient

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

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

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

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

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

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

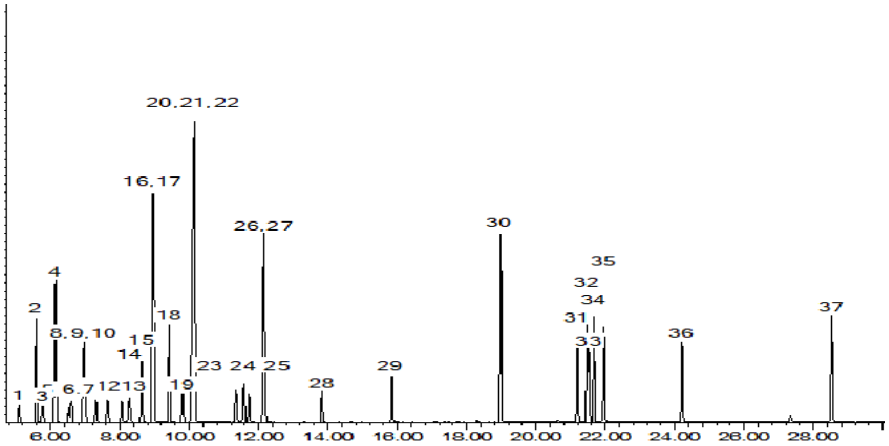
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

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

Alexis Shelow - Operations Tech I

Date Passed: 04-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMIX#1_00037

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)

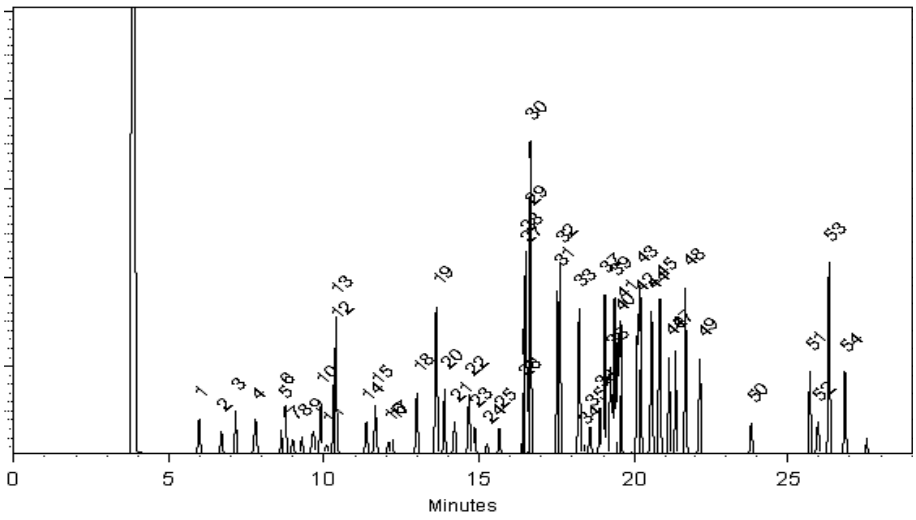
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_00055

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)

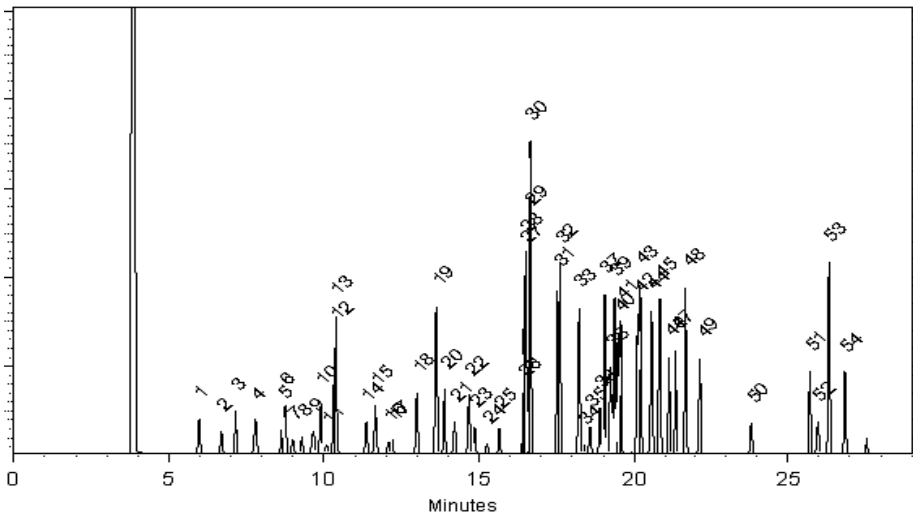
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_00037

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom VOC MegaMix® #2 Standard

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

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

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

Ship: Ambient

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

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

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

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

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

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

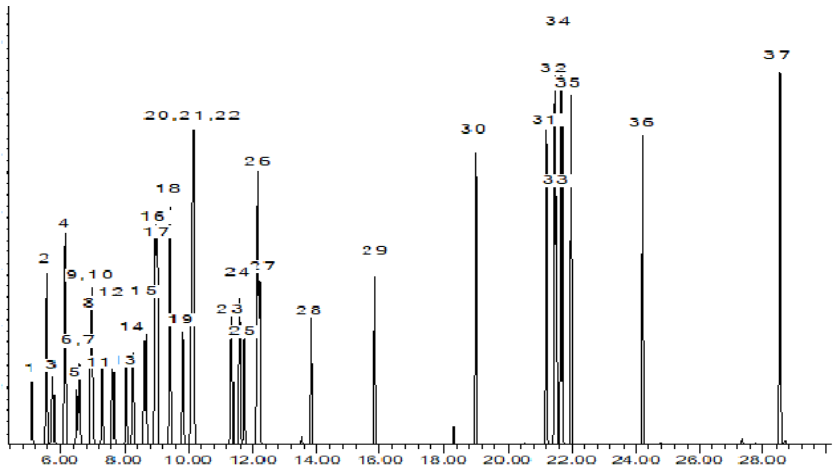
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Russ Bookhamer - Operations Technician I

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

Alexis Shelow - Operations Tech I

Date Passed: 30-Jun-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMix#2_00054

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom VOC MegaMix® #2 Standard

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

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

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

Ship: Ambient

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

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

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

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

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

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

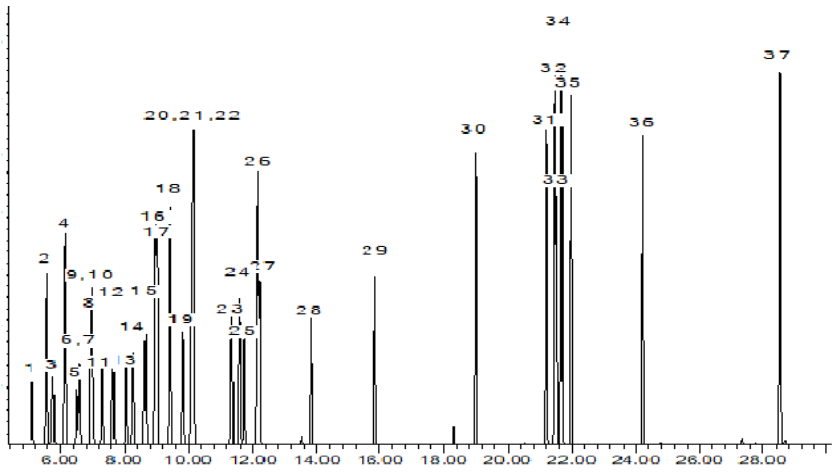
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Russ Bookhamer - Operations Technician I

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

Alexis Shelow - Operations Tech I

Date Passed: 30-Jun-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_Q_Ketones_00036

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.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)

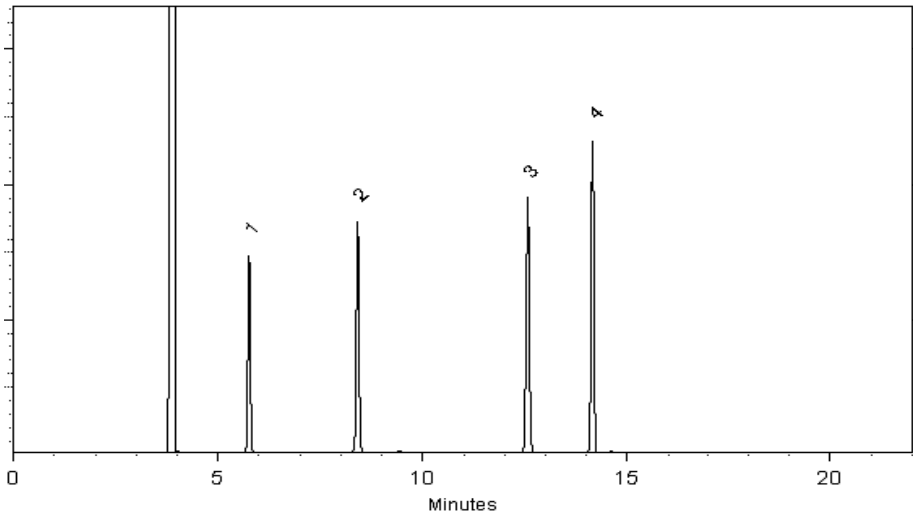
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Reagent

MSV_Q_Ketones_00053

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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. : 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)

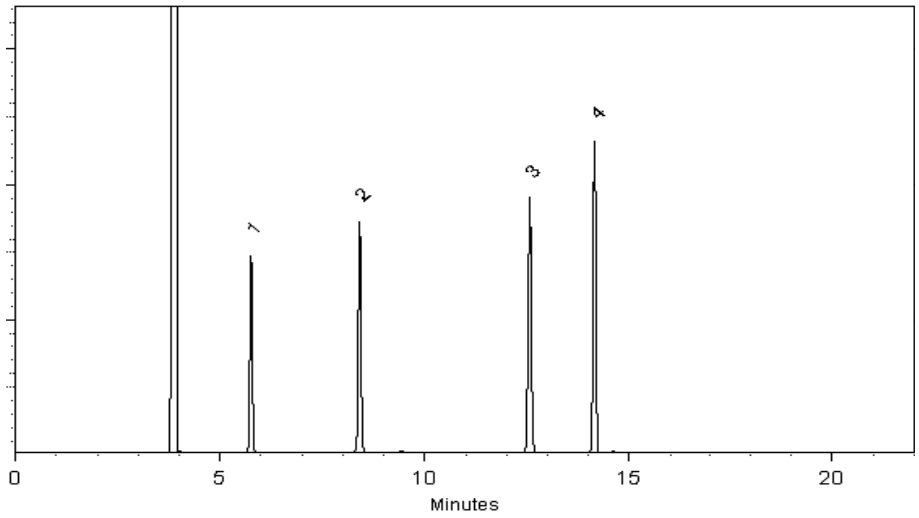
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Reagent

MSV_QC_2K_GAS_00060

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CERTIFIED REFERENCE MATERIAL

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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)

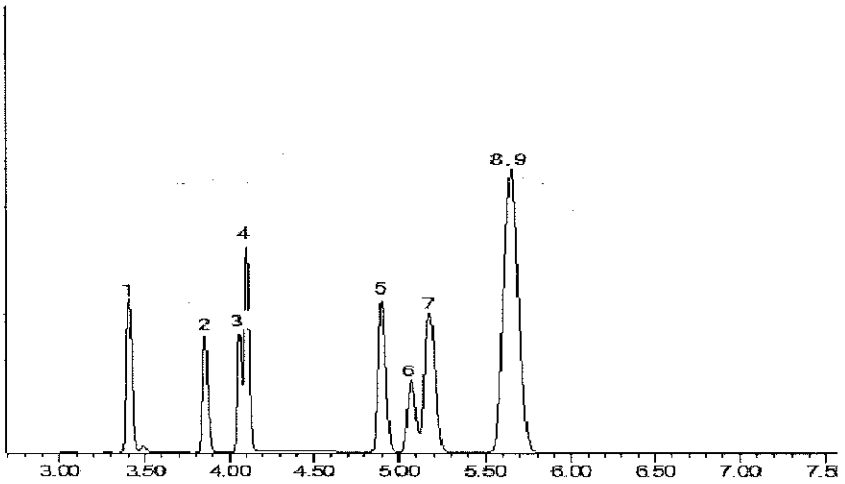
Carrier Gas:
helium-constant flow 2.0 mL/min.

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:

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

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

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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.

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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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)

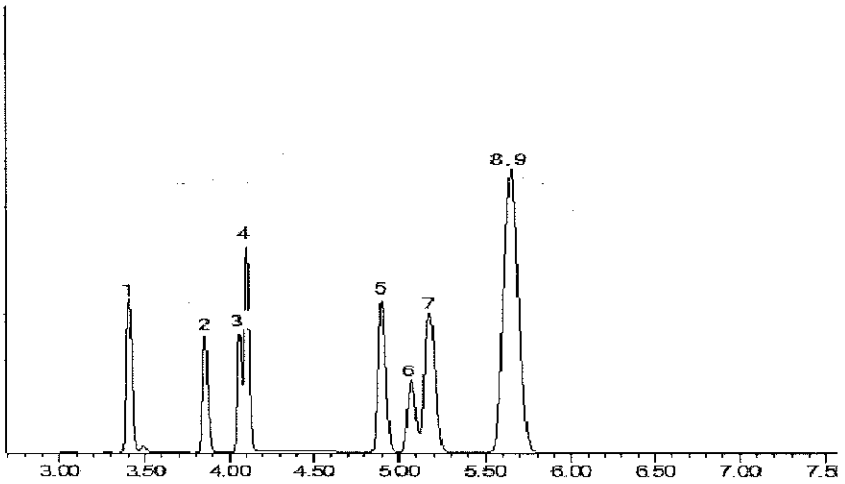
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V#2B_00245

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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.:** A0171518

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, 2023 **Storage:** 0°C or colder

Ship: Ambient

Elution Order	Compound	CAS #	Percent Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Propanol (isopropanol)	67-63-0	99%	25,038.0 µg/mL	+/- 146.6030 µg/mL
2	tert-Butanol (TBA)	75-65-0	99%	25,047.0 µg/mL	+/- 146.6557 µg/mL
3	Propionitrile	107-12-0	99%	25,015.0 µg/mL	+/- 146.4683 µg/mL
4	Methacrylonitrile	126-98-7	99%	12,515.0 µg/mL	+/- 73.2781 µg/mL
5	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	62,529.0 µg/mL	+/- 366.1210 µg/mL
6	1-Butanol	71-36-3	99%	125,072.0 µg/mL	+/- 732.2863 µg/mL
7	1,4-Dioxane	123-91-1	99%	62,509.0 µg/mL	+/- 366.0039 µg/mL
8	trans-1,4-dichloro-2-butene	110-57-6	95%	12,504.9 µg/mL	+/- 73.2186 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)

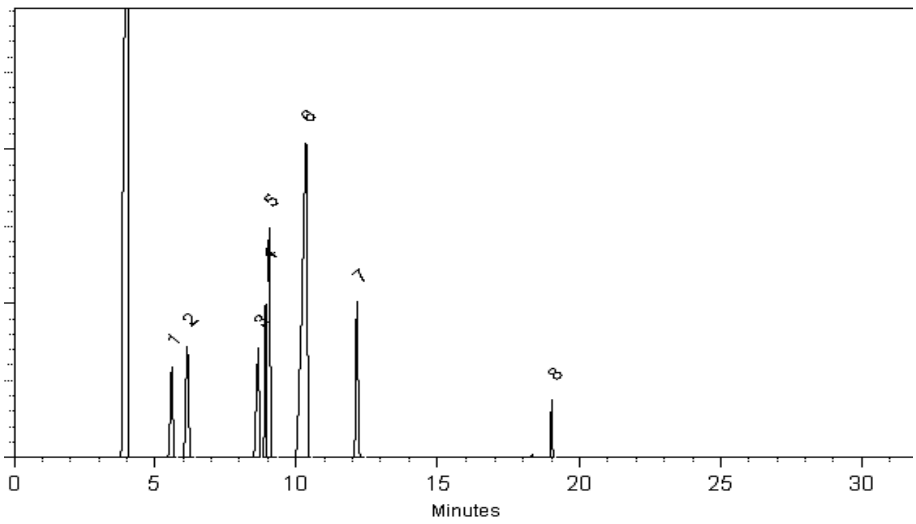
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Erik Strommer - Operations Tech I

Date Mixed: 20-Apr-2021 **Balance:** B707717271

Marlina Cowan - Operations Tech I

Date Passed: 23-Apr-2021

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_2CLEVE_00036

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

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Reference Material Producer
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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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)

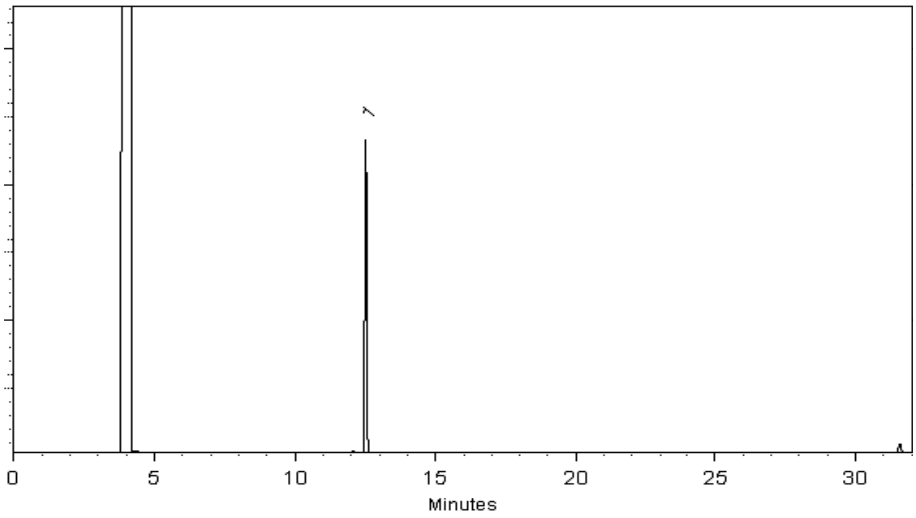
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_Ketones_00036

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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 **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)

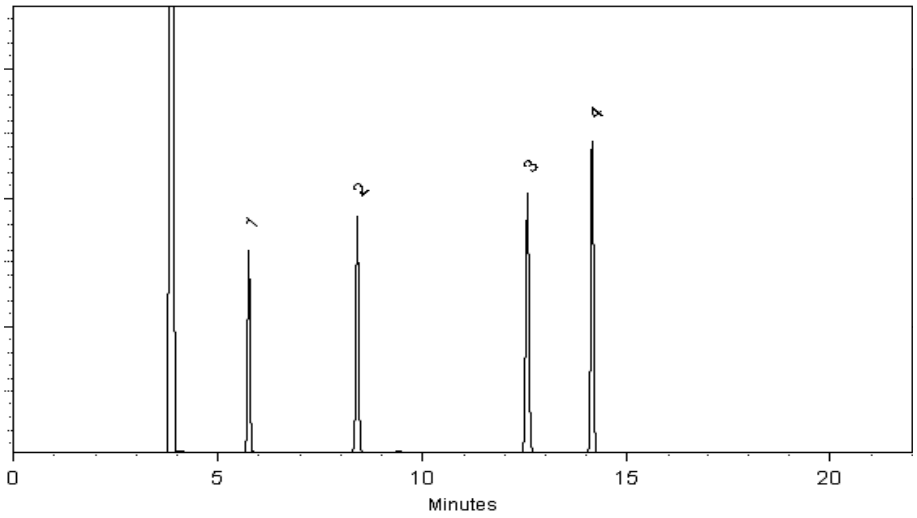
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_00053

110 Benner Circle
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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. : 569721 **Lot No.:** A0174287

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

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

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

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

Ship: Ambient

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

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

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

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

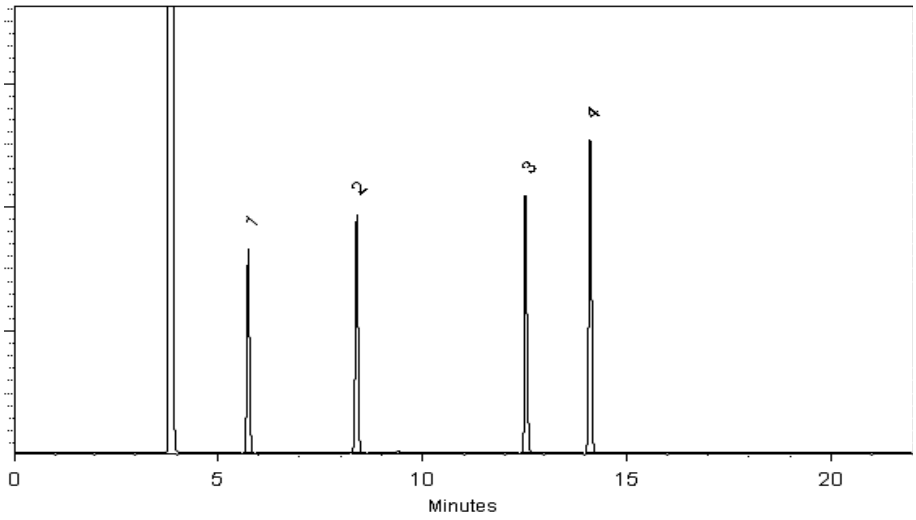
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Sam Moodler - Operations Tech I

Date Mixed: 11-Jul-2021 **Balance:** B707717271

Marlina Cowan - Operations Tech I

Date Passed: 13-Jul-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

OP_LCSmix2stk_00002

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569732 **Lot No.:** A0164387

Description : 8270 List 1 / Std #11

8270 List 1 / Std #11 2,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : March 31, 2022 **Storage:** 10°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	Benzaldehyde		2,001.8 µg/mL	+/- 11.6383	µg/mL	Gravimetric
	CAS # 100-52-7	(Lot SHBG8690V)		+/- 39.9656	µg/mL	Unstressed
	Purity 99%			+/- 89.7049	µg/mL	Stressed
2	epsilon-Caprolactam		2,000.6 µg/mL	+/- 11.6316	µg/mL	Gravimetric
	CAS # 105-60-2	(Lot I16X016)		+/- 39.9423	µg/mL	Unstressed
	Purity 99%			+/- 89.6527	µg/mL	Stressed
3	Atrazine		2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 1912-24-9	(Lot PI8FG)		+/- 39.9306	µg/mL	Unstressed
	Purity 99%			+/- 89.6265	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

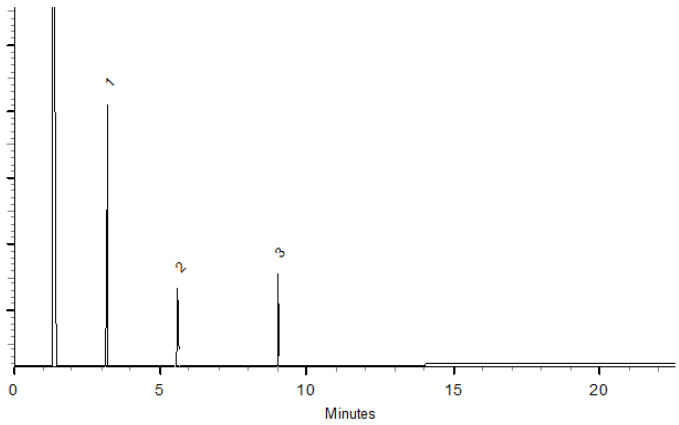
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°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: 14-Sep-2020 **Balance:** 1128360905

Justine Albertson - Operations Tech-ARM QC

Date Passed: 17-Sep-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

OP_RES_LCSadd_00001

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Composition

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. : 576938 **Lot No.:** A0166837

Description : Custom 8270/625 Add-in Standard

Custom 8270/625 Add-ins Standard 2,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2023 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	N,N-Dimethylformamide **CAS #** 68-12-2 **Purity** 99%	(Lot SHBL5825)	2,011.8 µg/mL	+/- 11.7235 +/- 91.6231 +/- 132.2992	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	alpha-Methylstyrene **CAS #** 98-83-9 **Purity** 99%	(Lot MKBS2502V)	2,006.0 µg/mL	+/- 11.6900 +/- 91.3612 +/- 131.9211	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	a-Terpineol **CAS #** 98-55-5 **Purity** 96%	(Lot ASB00020105-001)	2,011.4 µg/mL	+/- 11.7217 +/- 91.6089 +/- 132.2788	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	2,3-Dichloroaniline **CAS #** 608-27-5 **Purity** 99%	(Lot FBV01)	1,986.8 µg/mL	+/- 11.5778 +/- 90.4845 +/- 130.6551	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	n-Tetradecane (C14) **CAS #** 629-59-4 **Purity** 99%	(Lot STBJ3715)	2,003.0 µg/mL	+/- 11.6725 +/- 91.2245 +/- 131.7238	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Diphenyl ether **CAS #** 101-84-8 **Purity** 99%	(Lot SHBL5909)	2,004.5 µg/mL	+/- 11.6813 +/- 91.2929 +/- 131.8224	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	1-Methylphenanthrene **CAS #** 832-69-9 **Purity** 99%	(Lot 10916300)	2,011.8 µg/mL	+/- 11.7235 +/- 91.6231 +/- 132.2992	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

8	n-Eicosane (C20) **CAS #** 112-95-8 **Purity** 99%	(Lot MKCF7888)	2,010.5	µg/mL	+/- 11.7162 +/- 91.5661 +/- 132.2170	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Octachlorostyrene **CAS #** 29082-74-4 **Purity** 99%	(Lot NT058409)	2,008.5	µg/mL	+/- 11.7046 +/- 91.4750 +/- 132.0855	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	n-Docosane (C22) **CAS #** 629-97-0 **Purity** 99%	(Lot MKCH2086)	2,010.8	µg/mL	+/- 11.7177 +/- 91.5775 +/- 132.2335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

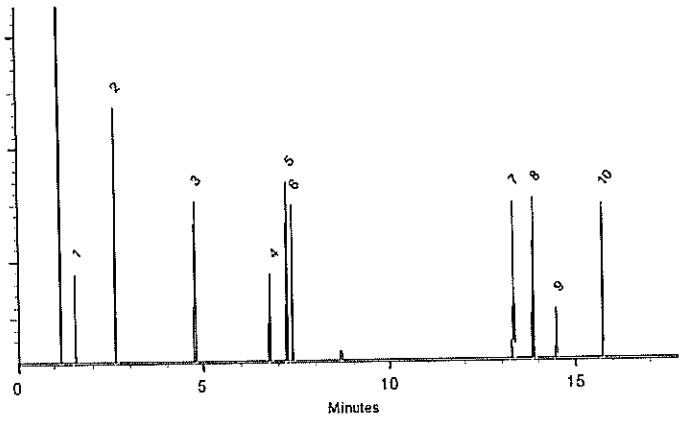
Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:
250°C

Det. Temp:
340°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 - Mic Technician

Date Mixed: 03-Dec-2020 **Balance:** 1128353505

Justine Albertson - Operations Tech-ARM QC

Date Passed: 07-Dec-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.

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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 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-74987-1

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 #
FBW001_03032022	410-74987-1	98 cn	103 cn	102 cn	99 cn
FBS010_03032022	410-74987-2	99 cn	108 cn	101 cn	98 cn
Trip Blank	410-74987-3	100 cn	104 cn	102 cn	98 cn
	MB 410-233094/7	99	106	101	99
	LCS 410-233094/4	98	103	101	100
	LCSD 410-233094/5	101	105	101	100

	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 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-74987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LM14L01.D

Lab ID: LCS 410-233094/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	18.3	91	67-126	
1,1,2,2-Tetrachloroethane	20.0	18.7	93	72-120	
1,1,2-Trichloroethane	20.0	19.5	97	80-120	
1,1-Dichloroethane	20.0	19.8	99	80-120	
1,1-Dichloroethene	20.0	19.0	95	80-131	
1,2,4-Trichlorobenzene	20.0	19.2	96	63-120	
1,2,4-Trimethylbenzene	20.0	18.1	90	75-120	
1,2-Dibromo-3-Chloropropane	20.0	17.9	89	47-131	
1,2-Dibromoethane	20.0	19.3	96	77-120	
1,2-Dichlorobenzene	20.0	18.5	92	80-120	
1,2-Dichloroethane	20.0	19.8	99	73-124	
1,2-Dichloropropane	20.0	20.2	101	80-120	
1,3,5-Trimethylbenzene	20.0	18.1	90	75-120	
1,3-Dichlorobenzene	20.0	18.7	94	80-120	
1,4-Dichlorobenzene	20.0	19.1	96	80-120	
2-Butanone	250	325	130	59-135	
2-Hexanone	250	327	131	56-135	
4-Methyl-2-pentanone	250	314	126	62-133	
Acetone	250	223	89	54-157	
Benzene	20.0	19.7	98	80-120	
Bromodichloromethane	20.0	19.6	98	71-120	
Bromoform	20.0	20.5	103	51-120	
Bromomethane	20.0	16.2	81	53-128	
Carbon disulfide	20.0	22.7	114	65-128	
Carbon tetrachloride	20.0	18.2	91	64-134	
Chlorobenzene	20.0	19.1	96	80-120	
Chloroethane	20.0	17.3	87	55-123	
Chloroform	20.0	19.1	96	80-120	
Chloromethane	20.0	17.8	89	56-121	
cis-1,2-Dichloroethene	20.0	19.5	97	80-125	
cis-1,3-Dichloropropene	20.0	20.0	100	75-120	
Cyclohexane	20.0	19.4	97	68-126	
Dibromochloromethane	20.0	19.6	98	71-120	
Dichlorodifluoromethane	20.0	14.1	71	41-127	
Ethylbenzene	20.0	19.2	96	80-120	
Freon 113	20.0	18.4	92	73-139	
Isopropylbenzene	20.0	19.2	96	80-120	
Methyl acetate	20.0	27.2	136	54-136	
Methyl tertiary butyl ether	20.0	20.8	104	69-122	
Methylcyclohexane	20.0	18.2	91	67-121	
Methylene Chloride	20.0	19.5	98	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-74987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LM14L01.D

Lab ID: LCS 410-233094/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Styrene	20.0	19.1	96	80-120	
Tetrachloroethene	20.0	19.6	98	80-120	
Toluene	20.0	19.0	95	80-120	
trans-1,2-Dichloroethene	20.0	18.7	94	80-126	
trans-1,3-Dichloropropene	20.0	20.4	102	67-120	
Trichloroethene	20.0	18.8	94	80-120	
Trichlorofluoromethane	20.0	16.1	80	55-135	
Vinyl chloride	20.0	16.3	81	56-120	
Xylenes, Total	60.0	57.2	95	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-74987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LM14L02.D

Lab ID: LCSD 410-233094/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	18.1	91	1	30	67-126	
1,1,2,2-Tetrachloroethane	20.0	18.7	93	0	30	72-120	
1,1,2-Trichloroethane	20.0	19.1	96	2	30	80-120	
1,1-Dichloroethane	20.0	19.9	99	0	30	80-120	
1,1-Dichloroethene	20.0	19.3	96	1	30	80-131	
1,2,4-Trichlorobenzene	20.0	18.6	93	3	30	63-120	
1,2,4-Trimethylbenzene	20.0	18.2	91	1	30	75-120	
1,2-Dibromo-3-Chloropropane	20.0	17.7	88	1	30	47-131	
1,2-Dibromoethane	20.0	18.6	93	3	30	77-120	
1,2-Dichlorobenzene	20.0	18.7	93	1	30	80-120	
1,2-Dichloroethane	20.0	19.7	98	1	30	73-124	
1,2-Dichloropropane	20.0	20.5	102	1	30	80-120	
1,3,5-Trimethylbenzene	20.0	18.3	92	1	30	75-120	
1,3-Dichlorobenzene	20.0	18.6	93	1	30	80-120	
1,4-Dichlorobenzene	20.0	18.9	94	1	30	80-120	
2-Butanone	250	315	126	3	30	59-135	
2-Hexanone	250	317	127	3	30	56-135	
4-Methyl-2-pentanone	250	310	124	1	30	62-133	
Acetone	250	218	87	2	30	54-157	
Benzene	20.0	19.8	99	1	30	80-120	
Bromodichloromethane	20.0	19.4	97	1	30	71-120	
Bromoform	20.0	19.8	99	4	30	51-120	
Bromomethane	20.0	16.2	81	0	30	53-128	
Carbon disulfide	20.0	22.7	113	0	30	65-128	
Carbon tetrachloride	20.0	18.2	91	0	30	64-134	
Chlorobenzene	20.0	19.1	95	0	30	80-120	
Chloroethane	20.0	17.7	89	2	30	55-123	
Chloroform	20.0	18.9	95	1	30	80-120	
Chloromethane	20.0	18.2	91	2	30	56-121	
cis-1,2-Dichloroethene	20.0	19.9	99	2	30	80-125	
cis-1,3-Dichloropropene	20.0	20.0	100	0	30	75-120	
Cyclohexane	20.0	19.6	98	1	30	68-126	
Dibromochloromethane	20.0	18.8	94	5	30	71-120	
Dichlorodifluoromethane	20.0	14.9	75	6	30	41-127	
Ethylbenzene	20.0	18.9	94	2	30	80-120	
Freon 113	20.0	18.6	93	1	30	73-139	
Isopropylbenzene	20.0	18.9	95	1	30	80-120	
Methyl acetate	20.0	25.8	129	6	30	54-136	
Methyl tertiary butyl ether	20.0	20.7	104	0	30	69-122	
Methylcyclohexane	20.0	19.0	95	4	30	67-121	
Methylene Chloride	20.0	19.6	98	0	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-74987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LM14L02.D

Lab ID: LCSD 410-233094/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Styrene	20.0	18.7	94	2	30	80-120	
Tetrachloroethene	20.0	19.1	95	3	30	80-120	
Toluene	20.0	18.8	94	1	30	80-120	
trans-1,2-Dichloroethene	20.0	18.7	94	0	30	80-126	
trans-1,3-Dichloropropene	20.0	20.1	101	2	30	67-120	
Trichloroethene	20.0	18.9	94	0	30	80-120	
Trichlorofluoromethane	20.0	16.0	80	0	30	55-135	
Vinyl chloride	20.0	16.6	83	2	30	56-120	
Xylenes, Total	60.0	56.4	94	1	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-74987-1

SDG No.:

Lab File ID: LM14B01.D Lab Sample ID: MB 410-233094/7

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

Instrument ID: 9915 Date Analyzed: 03/14/2022 11:03

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 410-233094/4	LM14L01.D	03/14/2022 09:57
	LCSD 410-233094/5	LM14L02.D	03/14/2022 10:19
FBW001_03032022	410-74987-1	LM14S13.D	03/14/2022 16:09
FBS010_03032022	410-74987-2	LM14S14.D	03/14/2022 16:31
Trip Blank	410-74987-3	LM14S15.D	03/14/2022 16:53

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Lab File ID: LN29T01.D BFB Injection Date: 11/29/2021

Instrument ID: 9915 BFB Injection Time: 11:53

Analysis Batch No.: 199110

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.3	
75	30.0 - 60.0 % of mass 95	48.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.8	(0.9) 1
174	Greater than 50% of mass 95	81.4	
175	5.0 - 9.0 % of mass 174	6.2	(7.7) 1
176	95.0 - 101.0 % of mass 174	78.3	(96.2) 1
177	5.0 - 9.0 % of mass 176	5.0	(6.4) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 410-199110/11	LN29X11.D	11/29/2021	15:48
	IC 410-199110/12	LN29X12.D	11/29/2021	16:10
	IC 410-199110/13	LN29X13.D	11/29/2021	16:32
	IC 410-199110/14	LN29X14.D	11/29/2021	16:54
	ICIS 410-199110/15	LN29X15.D	11/29/2021	17:16
	IC 410-199110/16	LN29X16.D	11/29/2021	17:38
	IC 410-199110/17	LN29X17.D	11/29/2021	18:00
	ICV 410-199110/19	LN29X19.D	11/29/2021	18:44

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Lab File ID: LM14T01.D BFB Injection Date: 03/14/2022

Instrument ID: 9915 BFB Injection Time: 08:47

Analysis Batch No.: 233094

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.5	
75	30.0 - 60.0 % of mass 95	51.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.1	
173	Less than 2.0 % of mass 174	1.5	(1.7) 1
174	Greater than 50% of mass 95	85.6	
175	5.0 - 9.0 % of mass 174	6.4	(7.5) 1
176	95.0 - 101.0 % of mass 174	85.3	(99.6) 1
177	5.0 - 9.0 % of mass 176	5.5	(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 410-233094/3	LM14C01.D	03/14/2022	9:35
	LCS 410-233094/4	LM14L01.D	03/14/2022	9:57
	LCSD 410-233094/5	LM14L02.D	03/14/2022	10:19
	MB 410-233094/7	LM14B01.D	03/14/2022	11:03
FBW001_03032022	410-74987-1	LM14S13.D	03/14/2022	16:09
FBS010_03032022	410-74987-2	LM14S14.D	03/14/2022	16:31
Trip Blank	410-74987-3	LM14S15.D	03/14/2022	16:53

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Sample No.: ICIS 410-199110/15 Date Analyzed: 11/29/2021 17:16

Instrument ID: 9915 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): LN29X15.D Heated Purge: (Y/N) N

Calibration ID: 33469

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		235614	4.46	1148377	7.93	905316	11.34
UPPER LIMIT		471228	4.96	2296754	8.43	1810632	11.84
LOWER LIMIT		117807	3.96	574189	7.43	452658	10.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-199110/19		245263	4.48	1156602	7.93	899454	11.34
CCVIS 410-233094/3		272115	4.52	1059570	7.93	854843	11.34

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 8260C

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Sample No.: ICIS 410-199110/15 Date Analyzed: 11/29/2021 17:16

Instrument ID: 9915 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): LN29X15.D Heated Purge: (Y/N) N

Calibration ID: 33469

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		483197	13.21				
UPPER LIMIT		966394	13.71				
LOWER LIMIT		241599	12.71				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-199110/19		479030	13.21				
CCVIS 410-233094/3		478747	13.20				

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 8260C

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Sample No.: CCVIS 410-233094/3 Date Analyzed: 03/14/2022 09:35

Instrument ID: 9915 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): LM14C01.D Heated Purge: (Y/N) N

Calibration ID: 33469

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		272115	4.52	1059570	7.93	854843	11.34
UPPER LIMIT		544230	5.02	2119140	8.43	1709686	11.84
LOWER LIMIT		136058	4.02	529785	7.43	427422	10.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-233094/4		268243	4.45	1032859	7.92	824538	11.34
LCSD 410-233094/5		285853	4.46	1052404	7.92	851516	11.34
MB 410-233094/7		242556	4.45	1088714	7.93	869365	11.34
410-74987-1	FBW001_03032022	256769	4.49	1035480	7.93	824486	11.34
410-74987-2	FBS010_03032022	273518	4.46	1039700	7.92	836681	11.34
410-74987-3	Trip Blank	260078	4.46	1038261	7.93	836623	11.34

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 8260C

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Sample No.: CCVIS 410-233094/3 Date Analyzed: 03/14/2022 09:35

Instrument ID: 9915 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): LM14C01.D Heated Purge: (Y/N) N

Calibration ID: 33469

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		478747	13.20				
UPPER LIMIT		957494	13.70				
LOWER LIMIT		239374	12.70				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-233094/4		459606	13.21				
LCSD 410-233094/5		462615	13.20				
MB 410-233094/7		480420	13.20				
410-74987-1	FBW001_03032022	462740	13.21				
410-74987-2	FBS010_03032022	469300	13.20				
410-74987-3	Trip Blank	459619	13.21				

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 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: FBW001_03032022 Lab Sample ID: 410-74987-1

Matrix: Water Lab File ID: LM14S13.D

Analysis Method: 8260C Date Collected: 03/03/2022 09:20

Sample wt/vol: 5(mL) Date Analyzed: 03/14/2022 16:09

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.: 233094 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	cn	1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND	cn	1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND	cn	1.0	0.30
75-34-3	1,1-Dichloroethane	ND	cn	1.0	0.30
75-35-4	1,1-Dichloroethene	ND	cn	1.0	0.30
120-82-1	1,2,4-Trichlorobenzene	ND	cn	5.0	0.30
95-63-6	1,2,4-Trimethylbenzene	ND	cn	5.0	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND	cn	5.0	0.30
106-93-4	1,2-Dibromoethane	ND	cn	1.0	0.20
95-50-1	1,2-Dichlorobenzene	ND	cn	5.0	0.20
107-06-2	1,2-Dichloroethane	ND	cn	1.0	0.30
78-87-5	1,2-Dichloropropane	ND	cn	1.0	0.30
108-67-8	1,3,5-Trimethylbenzene	ND	cn	5.0	0.30
541-73-1	1,3-Dichlorobenzene	ND	cn	5.0	0.30
106-46-7	1,4-Dichlorobenzene	ND	cn	5.0	0.30
78-93-3	2-Butanone	ND	cn	10	0.50
591-78-6	2-Hexanone	ND	cn	10	0.40
108-10-1	4-Methyl-2-pentanone	ND	cn	10	0.50
67-64-1	Acetone	ND	cn	20	0.70
71-43-2	Benzene	ND	cn	1.0	0.30
75-27-4	Bromodichloromethane	ND	cn	1.0	0.20
75-25-2	Bromoform	ND	cn	4.0	1.0
74-83-9	Bromomethane	ND	cn	1.0	0.30
75-15-0	Carbon disulfide	ND	cn	5.0	0.30
56-23-5	Carbon tetrachloride	ND	cn	1.0	0.30
108-90-7	Chlorobenzene	ND	cn	1.0	0.30
75-00-3	Chloroethane	ND	cn	1.0	0.20
67-66-3	Chloroform	ND	cn	1.0	0.30
74-87-3	Chloromethane	ND	cn	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	ND	cn	1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND	cn	1.0	0.20
110-82-7	Cyclohexane	ND	cn	5.0	1.0
124-48-1	Dibromochloromethane	ND	cn	1.0	0.20
75-71-8	Dichlorodifluoromethane	ND	cn	1.0	0.20
100-41-4	Ethylbenzene	ND	cn	1.0	0.40
76-13-1	Freon 113	ND	cn	10	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: FBW001_03032022 Lab Sample ID: 410-74987-1

Matrix: Water Lab File ID: LM14S13.D

Analysis Method: 8260C Date Collected: 03/03/2022 09:20

Sample wt/vol: 5(mL) Date Analyzed: 03/14/2022 16:09

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.: 233094 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	ND	cn	5.0	0.20
79-20-9	Methyl acetate	ND	cn	5.0	0.30
1634-04-4	Methyl tertiary butyl ether	ND	cn	1.0	0.20
108-87-2	Methylcyclohexane	ND	cn	5.0	0.50
75-09-2	Methylene Chloride	ND	cn	1.0	0.30
100-42-5	Styrene	ND	cn	5.0	0.30
127-18-4	Tetrachloroethene	ND	cn	1.0	0.30
108-88-3	Toluene	ND	cn	1.0	0.20
156-60-5	trans-1,2-Dichloroethene	ND	cn	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	ND	cn	1.0	0.20
79-01-6	Trichloroethene	ND	cn	1.0	0.30
75-69-4	Trichlorofluoromethane	ND	cn	1.0	0.20
75-01-4	Vinyl chloride	ND	cn	1.0	0.20
1330-20-7	Xylenes, Total	ND	cn	1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103	cn	80-120
460-00-4	4-Bromofluorobenzene (Surr)	99	cn	80-120
1868-53-7	Dibromofluoromethane (Surr)	98	cn	80-120
2037-26-5	Toluene-d8 (Surr)	102	cn	80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\LM14S13.D
Lims ID: 410-74987-F-1
Client ID: FBW001_03032022
Sample Type: Client
Inject. Date: 14-Mar-2022 16:09:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052368-020
Operator ID: clm27445 Instrument ID: 9915

Method: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2022 18:38:58 Calib Date: 29-Nov-2021 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1656

First Level Reviewer: beckerk Date: 14-Mar-2022 18:38:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85		2.072				ND	
4 Chloromethane	50		2.284				ND	
6 Vinyl chloride	62		2.406				ND	
8 Bromomethane	94		2.767				ND	
9 Chloroethane	64		2.847				ND	
11 Trichlorofluoromethane	101		3.165				ND	
17 1,1-Dichloroethene	96		3.754				ND	
18 Acetone	58		3.773				ND	
19 112TCTFE	101		3.792				ND	
22 Carbon disulfide	76		4.078				ND	
24 Methyl acetate	43		4.213				ND	
26 Methylene Chloride	84		4.451				ND	
* 27 t-Butyl alcohol-d10 (IS)	65	4.487	4.516	-0.029	46	256769	250.0	
32 trans-1,2-Dichloroethene	96		4.863				ND	
31 Methyl tert-butyl ether	73		4.863				ND	
35 1,1-Dichloroethane	63		5.519				ND	
40 2-Butanone (MEK)	43		6.313				ND	U
41 cis-1,2-Dichloroethene	96		6.352				ND	
48 Chloroform	83		6.828				ND	
$ 49 Dibromofluoromethane (Surr)	113	7.040	7.040	0.000	93	252930	49.1	
50 1,1,1-Trichloroethane	97		7.062				ND	
51 Cyclohexane	56		7.152				ND	
52 Carbon tetrachloride	117		7.268				ND	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.493	7.493	0.000	97	65206	51.6	
56 Benzene	78		7.525				ND	
57 1,2-Dichloroethane	62		7.596				ND	7
* 61 Fluorobenzene (IS)	96	7.927	7.927	0.000	98	1035480	50.0	
64 Trichloroethene	95		8.403				ND	7
65 Methylcyclohexane	83		8.712				ND	
67 1,2-Dichloropropane	63		8.731				ND	
72 Dichlorobromomethane	83		9.078				ND	
75 cis-1,3-Dichloropropene	75		9.609				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
77 4-Methyl-2-pentanone (MIBK)	43		9.773				ND	7
$ 78 Toluene-d8 (Surr)	98	9.911	9.908	0.003	94	1080509	50.8	
79 Toluene	92		9.985				ND	
84 trans-1,3-Dichloropropene	75		10.233				ND	
86 1,1,2-Trichloroethane	97		10.432				ND	
87 Tetrachloroethene	166		10.519				ND	
90 2-Hexanone	43		10.641				ND	
92 Chlorodibromomethane	129		10.805				ND	
93 Ethylene Dibromide	107		10.914				ND	
S 94 Xylenes, Total	106		11.245				ND	7
* 95 Chlorobenzene-d5 (IS)	117	11.338	11.339	-0.001	87	824486	50.0	
97 Chlorobenzene	112		11.368				ND	
99 Ethylbenzene	91		11.448				ND	7
100 m-Xylene & p-Xylene	106		11.560				ND	
101 o-Xylene	106		11.888				ND	
102 Styrene	104		11.904				ND	
103 Bromoform	173		12.059				ND	
104 Isopropylbenzene	105		12.184				ND	
$ 107 4-Bromofluorobenzene (Surr)	95	12.329	12.329	0.000	93	397838	49.3	
108 1,1,2,2-Tetrachloroethane	83		12.429				ND	
114 1,3,5-Trimethylbenzene	105		12.647				ND	7
119 1,2,4-Trimethylbenzene	105		12.927				ND	7
121 1,3-Dichlorobenzene	146		13.152				ND	7
* 123 1,4-Dichlorobenzene-d4	152	13.206	13.203	0.003	95	462740	50.0	
124 1,4-Dichlorobenzene	146		13.223				ND	7
130 1,2-Dichlorobenzene	146		13.483				ND	
133 1,2-Dibromo-3-Chloropropane	75		14.023				ND	
135 1,2,4-Trichlorobenzene	180		14.573				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_HP23_ISSS_00007 Amount Added: 1.00 Units: uL Run Reagent

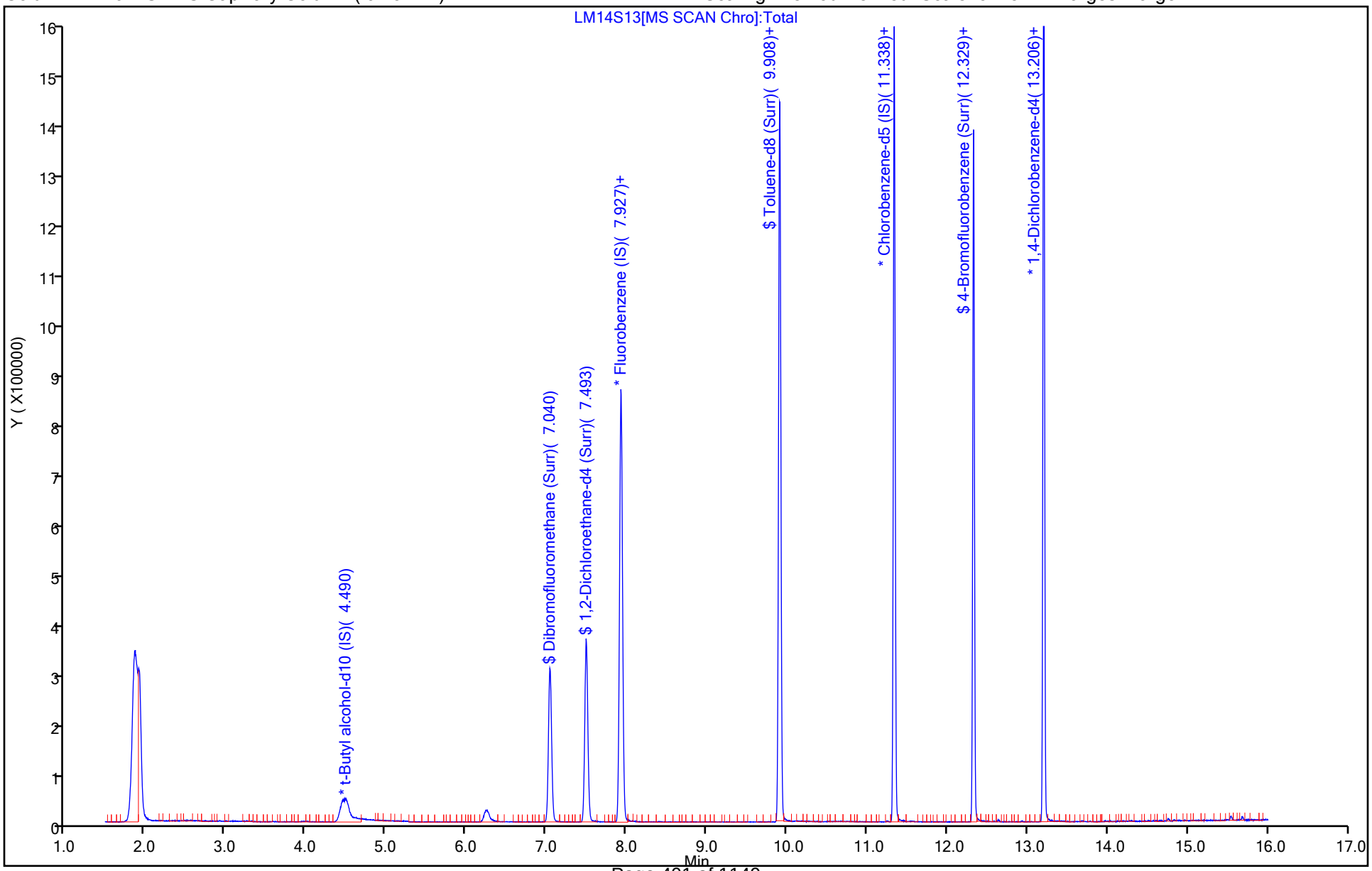
Report Date: 14-Mar-2022 18:40:45 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\LM14S13.D

Injection Date:	14-Mar-2022 16:09:30	Instrument ID:	9915	Operator ID:	clm27445
Lims ID:	410-74987-F-1	Lab Sample ID:	410-74987-1	Worklist Smp#:	20
Client ID:	FBW001_03032022				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSVoa_9915a	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\9915\20220314-52368.b\LM14S13.D
Lims ID: 410-74987-F-1
Client ID: FBW001_03032022
Sample Type: Client
Inject. Date: 14-Mar-2022 16:09:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052368-020
Operator ID: clm27445 Instrument ID: 9915

Method: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2022 18:38:58 Calib Date: 29-Nov-2021 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1656

First Level Reviewer: beckerk Date: 14-Mar-2022 18:38:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	50.0	49.1	98.25
$ 55 1,2-Dichloroethane-d4 (Surr)	50.0	51.6	103.12
$ 78 Toluene-d8 (Surr)	50.0	50.8	101.60
$ 107 4-Bromofluorobenzene (Surr)	50.0	49.3	98.61

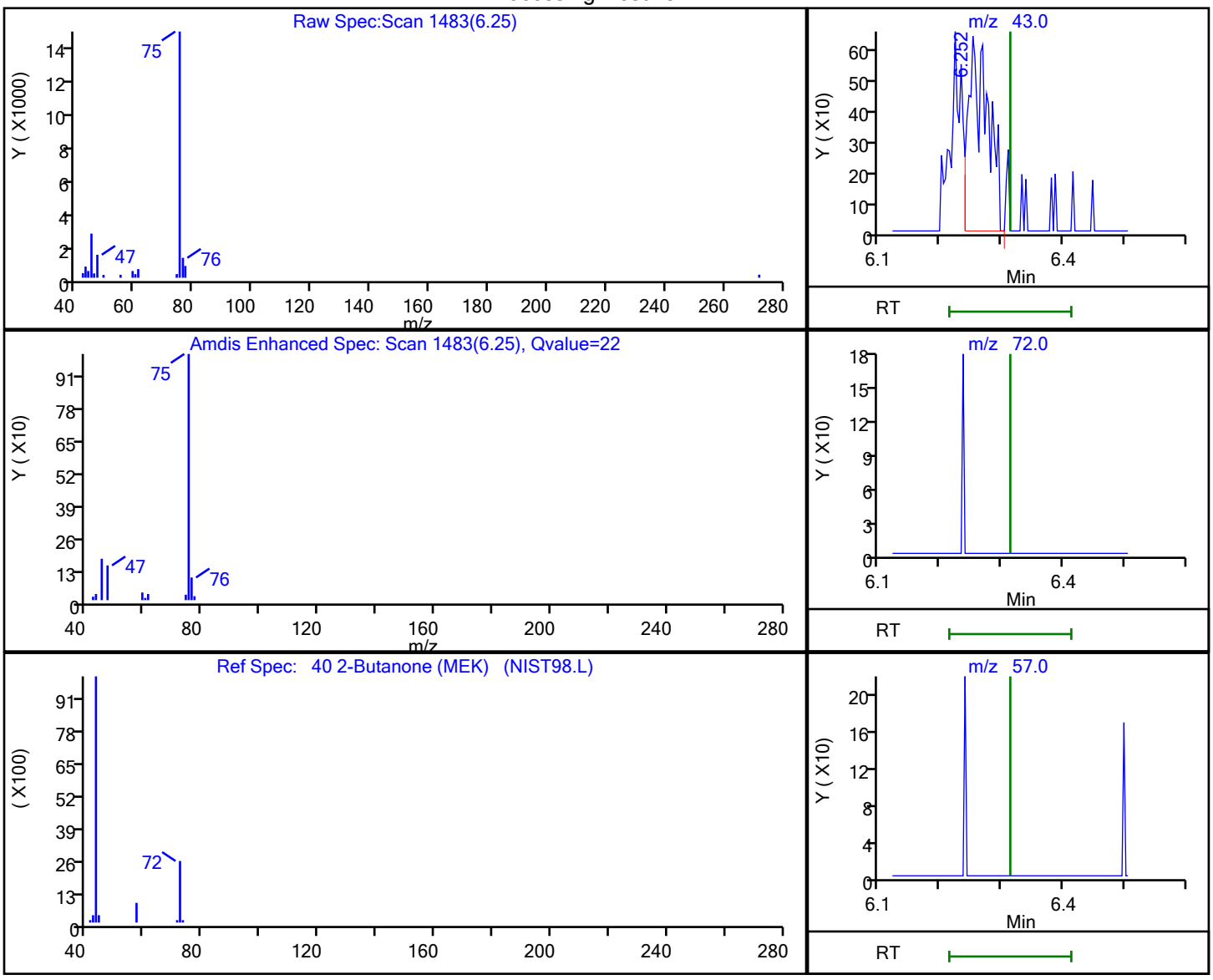
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9915\20220314-52368.b\LM14S13.D				
Injection Date:	14-Mar-2022 16:09:30	Instrument ID:	9915		
Lims ID:	410-74987-F-1	Lab Sample ID:	410-74987-1		
Client ID:	FBW001_03032022				
Operator ID:	clm27445	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9915a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

40 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.25	43.00	1405	0.341433
6.31	72.00	0	
6.31	57.00	0	

Reviewer: beckerk, 14-Mar-2022 18:38:54

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.: 410-74987-1

SDG No.:

Client Sample ID: FBS010_03032022 Lab Sample ID: 410-74987-2

Matrix: Water Lab File ID: LM14S14.D

Analysis Method: 8260C Date Collected: 03/03/2022 09:30

Sample wt/vol: 5(mL) Date Analyzed: 03/14/2022 16:31

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.: 233094 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	cn	1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND	cn	1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND	cn	1.0	0.30
75-34-3	1,1-Dichloroethane	ND	cn	1.0	0.30
75-35-4	1,1-Dichloroethene	ND	cn	1.0	0.30
120-82-1	1,2,4-Trichlorobenzene	ND	cn	5.0	0.30
95-63-6	1,2,4-Trimethylbenzene	ND	cn	5.0	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND	cn	5.0	0.30
106-93-4	1,2-Dibromoethane	ND	cn	1.0	0.20
95-50-1	1,2-Dichlorobenzene	ND	cn	5.0	0.20
107-06-2	1,2-Dichloroethane	ND	cn	1.0	0.30
78-87-5	1,2-Dichloropropane	ND	cn	1.0	0.30
108-67-8	1,3,5-Trimethylbenzene	ND	cn	5.0	0.30
541-73-1	1,3-Dichlorobenzene	ND	cn	5.0	0.30
106-46-7	1,4-Dichlorobenzene	ND	cn	5.0	0.30
78-93-3	2-Butanone	ND	cn	10	0.50
591-78-6	2-Hexanone	ND	cn	10	0.40
108-10-1	4-Methyl-2-pentanone	ND	cn	10	0.50
67-64-1	Acetone	ND	cn	20	0.70
71-43-2	Benzene	ND	cn	1.0	0.30
75-27-4	Bromodichloromethane	ND	cn	1.0	0.20
75-25-2	Bromoform	ND	cn	4.0	1.0
74-83-9	Bromomethane	ND	cn	1.0	0.30
75-15-0	Carbon disulfide	ND	cn	5.0	0.30
56-23-5	Carbon tetrachloride	ND	cn	1.0	0.30
108-90-7	Chlorobenzene	ND	cn	1.0	0.30
75-00-3	Chloroethane	ND	cn	1.0	0.20
67-66-3	Chloroform	ND	cn	1.0	0.30
74-87-3	Chloromethane	ND	cn	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	ND	cn	1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND	cn	1.0	0.20
110-82-7	Cyclohexane	ND	cn	5.0	1.0
124-48-1	Dibromochloromethane	ND	cn	1.0	0.20
75-71-8	Dichlorodifluoromethane	ND	cn	1.0	0.20
100-41-4	Ethylbenzene	ND	cn	1.0	0.40
76-13-1	Freon 113	ND	cn	10	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: FBS010_03032022 Lab Sample ID: 410-74987-2

Matrix: Water Lab File ID: LM14S14.D

Analysis Method: 8260C Date Collected: 03/03/2022 09:30

Sample wt/vol: 5(mL) Date Analyzed: 03/14/2022 16:31

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.: 233094 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	ND	cn	5.0	0.20
79-20-9	Methyl acetate	ND	cn	5.0	0.30
1634-04-4	Methyl tertiary butyl ether	ND	cn	1.0	0.20
108-87-2	Methylcyclohexane	ND	cn	5.0	0.50
75-09-2	Methylene Chloride	ND	cn	1.0	0.30
100-42-5	Styrene	ND	cn	5.0	0.30
127-18-4	Tetrachloroethene	ND	cn	1.0	0.30
108-88-3	Toluene	ND	cn	1.0	0.20
156-60-5	trans-1,2-Dichloroethene	ND	cn	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	ND	cn	1.0	0.20
79-01-6	Trichloroethene	ND	cn	1.0	0.30
75-69-4	Trichlorofluoromethane	ND	cn	1.0	0.20
75-01-4	Vinyl chloride	ND	cn	1.0	0.20
1330-20-7	Xylenes, Total	ND	cn	1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108	cn	80-120
460-00-4	4-Bromofluorobenzene (Surr)	98	cn	80-120
1868-53-7	Dibromofluoromethane (Surr)	99	cn	80-120
2037-26-5	Toluene-d8 (Surr)	101	cn	80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\LM14S14.D
Lims ID: 410-74987-F-2
Client ID: FBS010_03032022
Sample Type: Client
Inject. Date: 14-Mar-2022 16:31:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052368-021
Operator ID: clm27445 Instrument ID: 9915

Method: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2022 18:38:58 Calib Date: 29-Nov-2021 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1656

First Level Reviewer: beckerk Date: 14-Mar-2022 18:39:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85		2.072				ND	
4 Chloromethane	50		2.284				ND	
6 Vinyl chloride	62		2.406				ND	
8 Bromomethane	94		2.767				ND	
9 Chloroethane	64		2.847				ND	
11 Trichlorofluoromethane	101		3.165				ND	
17 1,1-Dichloroethene	96		3.754				ND	
18 Acetone	58		3.773				ND	
19 112TCTFE	101		3.792				ND	
22 Carbon disulfide	76		4.078				ND	
24 Methyl acetate	43		4.213				ND	
26 Methylene Chloride	84		4.451				ND	
* 27 t-Butyl alcohol-d10 (IS)	65	4.458	4.516	-0.058	0	273518	250.0	
32 trans-1,2-Dichloroethene	96		4.863				ND	
31 Methyl tert-butyl ether	73		4.863				ND	
35 1,1-Dichloroethane	63		5.519				ND	
40 2-Butanone (MEK)	43		6.313				ND	
41 cis-1,2-Dichloroethene	96		6.352				ND	
48 Chloroform	83		6.828				ND	7
$ 49 Dibromofluoromethane (Surr)	113	7.036	7.040	-0.004	93	256671	49.7	
50 1,1,1-Trichloroethane	97		7.062				ND	
51 Cyclohexane	56		7.152				ND	
52 Carbon tetrachloride	117		7.268				ND	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.483	7.493	-0.010	97	68427	53.9	
56 Benzene	78		7.525				ND	
57 1,2-Dichloroethane	62		7.596				ND	7
* 61 Fluorobenzene (IS)	96	7.921	7.927	-0.006	98	1039700	50.0	
64 Trichloroethene	95		8.403				ND	
65 Methylcyclohexane	83		8.712				ND	
67 1,2-Dichloropropane	63		8.731				ND	
72 Dichlorobromomethane	83		9.078				ND	
75 cis-1,3-Dichloropropene	75		9.609				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
77 4-Methyl-2-pentanone (MIBK)	43		9.773				ND	7
$ 78 Toluene-d8 (Surr)	98	9.908	9.908	0.000	94	1090333	50.5	
79 Toluene	92		9.985				ND	7
84 trans-1,3-Dichloropropene	75		10.233				ND	
86 1,1,2-Trichloroethane	97		10.432				ND	
87 Tetrachloroethene	166		10.519				ND	
90 2-Hexanone	43		10.641				ND	
92 Chlorodibromomethane	129		10.805				ND	
93 Ethylene Dibromide	107		10.914				ND	
S 94 Xylenes, Total	106		11.245				ND	7
* 95 Chlorobenzene-d5 (IS)	117	11.338	11.339	-0.001	87	836681	50.0	
97 Chlorobenzene	112		11.368				ND	
99 Ethylbenzene	91		11.448				ND	
100 m-Xylene & p-Xylene	106		11.560				ND	
101 o-Xylene	106		11.888				ND	
102 Styrene	104		11.904				ND	
103 Bromoform	173		12.059				ND	
104 Isopropylbenzene	105		12.184				ND	
$ 107 4-Bromofluorobenzene (Surr)	95	12.326	12.329	-0.003	91	400627	48.9	
108 1,1,2,2-Tetrachloroethane	83		12.429				ND	7
114 1,3,5-Trimethylbenzene	105		12.647				ND	
119 1,2,4-Trimethylbenzene	105		12.927				ND	7
121 1,3-Dichlorobenzene	146		13.152				ND	7
* 123 1,4-Dichlorobenzene-d4	152	13.203	13.203	0.000	96	469300	50.0	
124 1,4-Dichlorobenzene	146		13.223				ND	7
130 1,2-Dichlorobenzene	146		13.483				ND	
133 1,2-Dibromo-3-Chloropropane	75		14.023				ND	
135 1,2,4-Trichlorobenzene	180		14.573				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP23_ISSS_00007 Amount Added: 1.00 Units: uL Run Reagent

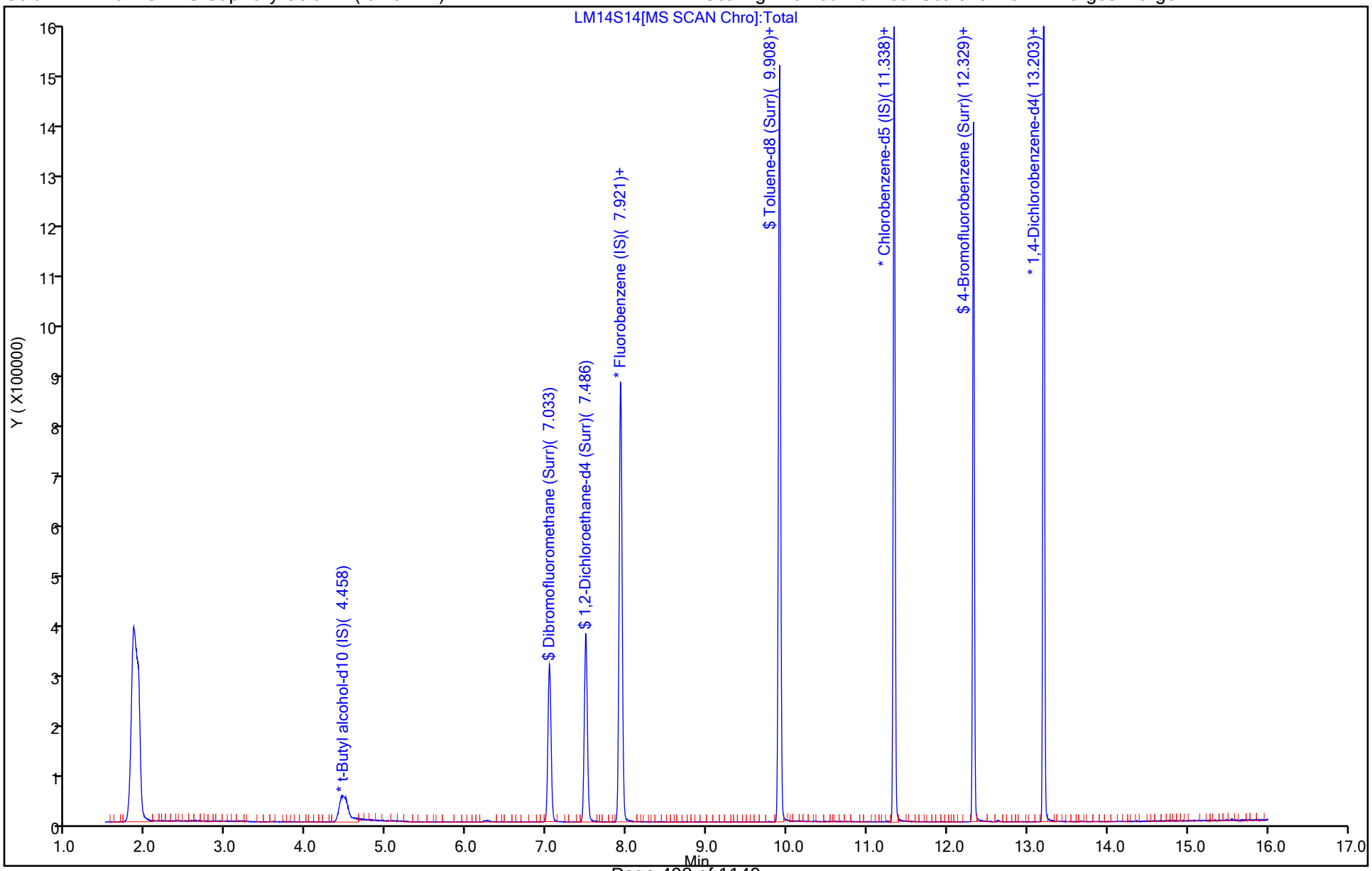
Report Date: 14-Mar-2022 18:40:47 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\LM14S14.D

Injection Date:	14-Mar-2022 16:31:30	Instrument ID:	9915	Operator ID:	clm27445
Lims ID:	410-74987-F-2	Lab Sample ID:	410-74987-2	Worklist Smp#:	21
Client ID:	FBS010_03032022				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSVoa_9915a	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\9915\20220314-52368.b\LM14S14.D
Lims ID: 410-74987-F-2
Client ID: FBS010_03032022
Sample Type: Client
Inject. Date: 14-Mar-2022 16:31:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052368-021
Operator ID: clm27445 Instrument ID: 9915

Method: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2022 18:38:58 Calib Date: 29-Nov-2021 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1656

First Level Reviewer: beckerk Date: 14-Mar-2022 18:39:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	50.0	49.7	99.30
$ 55 1,2-Dichloroethane-d4 (Surr)	50.0	53.9	107.78
$ 78 Toluene-d8 (Surr)	50.0	50.5	101.03
$ 107 4-Bromofluorobenzene (Surr)	50.0	48.9	97.86

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: Trip Blank Lab Sample ID: 410-74987-3

Matrix: Water Lab File ID: LM14S15.D

Analysis Method: 8260C Date Collected: 03/03/2022 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/14/2022 16:53

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.: 233094 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	cn	1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND	cn	1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND	cn	1.0	0.30
75-34-3	1,1-Dichloroethane	ND	cn	1.0	0.30
75-35-4	1,1-Dichloroethene	ND	cn	1.0	0.30
120-82-1	1,2,4-Trichlorobenzene	ND	cn	5.0	0.30
95-63-6	1,2,4-Trimethylbenzene	ND	cn	5.0	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND	cn	5.0	0.30
106-93-4	1,2-Dibromoethane	ND	cn	1.0	0.20
95-50-1	1,2-Dichlorobenzene	ND	cn	5.0	0.20
107-06-2	1,2-Dichloroethane	ND	cn	1.0	0.30
78-87-5	1,2-Dichloropropane	ND	cn	1.0	0.30
108-67-8	1,3,5-Trimethylbenzene	ND	cn	5.0	0.30
541-73-1	1,3-Dichlorobenzene	ND	cn	5.0	0.30
106-46-7	1,4-Dichlorobenzene	ND	cn	5.0	0.30
78-93-3	2-Butanone	ND	cn	10	0.50
591-78-6	2-Hexanone	ND	cn	10	0.40
108-10-1	4-Methyl-2-pentanone	ND	cn	10	0.50
67-64-1	Acetone	ND	cn	20	0.70
71-43-2	Benzene	ND	cn	1.0	0.30
75-27-4	Bromodichloromethane	ND	cn	1.0	0.20
75-25-2	Bromoform	ND	cn	4.0	1.0
74-83-9	Bromomethane	ND	cn	1.0	0.30
75-15-0	Carbon disulfide	ND	cn	5.0	0.30
56-23-5	Carbon tetrachloride	ND	cn	1.0	0.30
108-90-7	Chlorobenzene	ND	cn	1.0	0.30
75-00-3	Chloroethane	ND	cn	1.0	0.20
67-66-3	Chloroform	ND	cn	1.0	0.30
74-87-3	Chloromethane	ND	cn	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	ND	cn	1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND	cn	1.0	0.20
110-82-7	Cyclohexane	ND	cn	5.0	1.0
124-48-1	Dibromochloromethane	ND	cn	1.0	0.20
75-71-8	Dichlorodifluoromethane	ND	cn	1.0	0.20
100-41-4	Ethylbenzene	ND	cn	1.0	0.40
76-13-1	Freon 113	ND	cn	10	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: Trip Blank Lab Sample ID: 410-74987-3

Matrix: Water Lab File ID: LM14S15.D

Analysis Method: 8260C Date Collected: 03/03/2022 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/14/2022 16:53

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.: 233094 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	ND	cn	5.0	0.20
79-20-9	Methyl acetate	ND	cn	5.0	0.30
1634-04-4	Methyl tertiary butyl ether	ND	cn	1.0	0.20
108-87-2	Methylcyclohexane	ND	cn	5.0	0.50
75-09-2	Methylene Chloride	ND	cn	1.0	0.30
100-42-5	Styrene	ND	cn	5.0	0.30
127-18-4	Tetrachloroethene	ND	cn	1.0	0.30
108-88-3	Toluene	ND	cn	1.0	0.20
156-60-5	trans-1,2-Dichloroethene	ND	cn	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	ND	cn	1.0	0.20
79-01-6	Trichloroethene	ND	cn	1.0	0.30
75-69-4	Trichlorofluoromethane	ND	cn	1.0	0.20
75-01-4	Vinyl chloride	ND	cn	1.0	0.20
1330-20-7	Xylenes, Total	ND	cn	1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104	cn	80-120
460-00-4	4-Bromofluorobenzene (Surr)	98	cn	80-120
1868-53-7	Dibromofluoromethane (Surr)	100	cn	80-120
2037-26-5	Toluene-d8 (Surr)	102	cn	80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\LM14S15.D
Lims ID: 410-74987-B-3
Client ID: Trip Blank
Sample Type: Client
Inject. Date: 14-Mar-2022 16:53:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052368-022
Operator ID: clm27445 Instrument ID: 9915

Method: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2022 18:38:58 Calib Date: 29-Nov-2021 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1656

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85		2.072				ND	
4 Chloromethane	50		2.284				ND	
6 Vinyl chloride	62		2.406				ND	
8 Bromomethane	94		2.767				ND	
9 Chloroethane	64		2.847				ND	
11 Trichlorofluoromethane	101		3.165				ND	
17 1,1-Dichloroethene	96		3.754				ND	
18 Acetone	58		3.773				ND	
19 112TCTFE	101		3.792				ND	
22 Carbon disulfide	76		4.078				ND	
24 Methyl acetate	43		4.213				ND	
26 Methylene Chloride	84		4.451				ND	
* 27 t-Butyl alcohol-d10 (IS)	65	4.461	4.516	-0.055	47	260078	250.0	
32 trans-1,2-Dichloroethene	96		4.863				ND	
31 Methyl tert-butyl ether	73		4.863				ND	
35 1,1-Dichloroethane	63		5.519				ND	
40 2-Butanone (MEK)	43		6.313				ND	
41 cis-1,2-Dichloroethene	96		6.352				ND	
48 Chloroform	83		6.828				ND	
$ 49 Dibromofluoromethane (Surr)	113	7.040	7.040	0.000	93	258828	50.1	
50 1,1,1-Trichloroethane	97		7.062				ND	
51 Cyclohexane	56		7.152				ND	
52 Carbon tetrachloride	117		7.268				ND	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.493	7.493	0.000	97	65682	51.8	
56 Benzene	78		7.525				ND	
57 1,2-Dichloroethane	62		7.596				ND	7
* 61 Fluorobenzene (IS)	96	7.927	7.927	0.000	98	1038261	50.0	
64 Trichloroethene	95		8.403				ND	
65 Methylcyclohexane	83		8.712				ND	
67 1,2-Dichloropropane	63		8.731				ND	
72 Dichlorobromomethane	83		9.078				ND	
75 cis-1,3-Dichloropropene	75		9.609				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.773				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 78 Toluene-d8 (Surr)	98	9.908	9.908	0.000	94	1096240	50.8	
79 Toluene	92		9.985				ND	7
84 trans-1,3-Dichloropropene	75		10.233				ND	
86 1,1,2-Trichloroethane	97		10.432				ND	
87 Tetrachloroethene	166		10.519				ND	
90 2-Hexanone	43		10.641				ND	
92 Chlorodibromomethane	129		10.805				ND	
93 Ethylene Dibromide	107		10.914				ND	
S 94 Xylenes, Total	106		11.245				ND	7
* 95 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	87	836623	50.0	
97 Chlorobenzene	112		11.368				ND	
99 Ethylbenzene	91		11.448				ND	
100 m-Xylene & p-Xylene	106		11.560				ND	
101 o-Xylene	106		11.888				ND	
102 Styrene	104		11.904				ND	
103 Bromoform	173		12.059				ND	
104 Isopropylbenzene	105		12.184				ND	
$ 107 4-Bromofluorobenzene (Surr)	95	12.329	12.329	0.000	91	400007	48.9	
108 1,1,2,2-Tetrachloroethane	83		12.429				ND	7
114 1,3,5-Trimethylbenzene	105		12.647				ND	
119 1,2,4-Trimethylbenzene	105		12.927				ND	7
121 1,3-Dichlorobenzene	146		13.152				ND	
* 123 1,4-Dichlorobenzene-d4	152	13.207	13.203	0.004	96	459619	50.0	
124 1,4-Dichlorobenzene	146		13.223				ND	
130 1,2-Dichlorobenzene	146		13.483				ND	
133 1,2-Dibromo-3-Chloropropane	75		14.023				ND	
135 1,2,4-Trichlorobenzene	180		14.573				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP23_ISSS_00007 Amount Added: 1.00 Units: uL Run Reagent

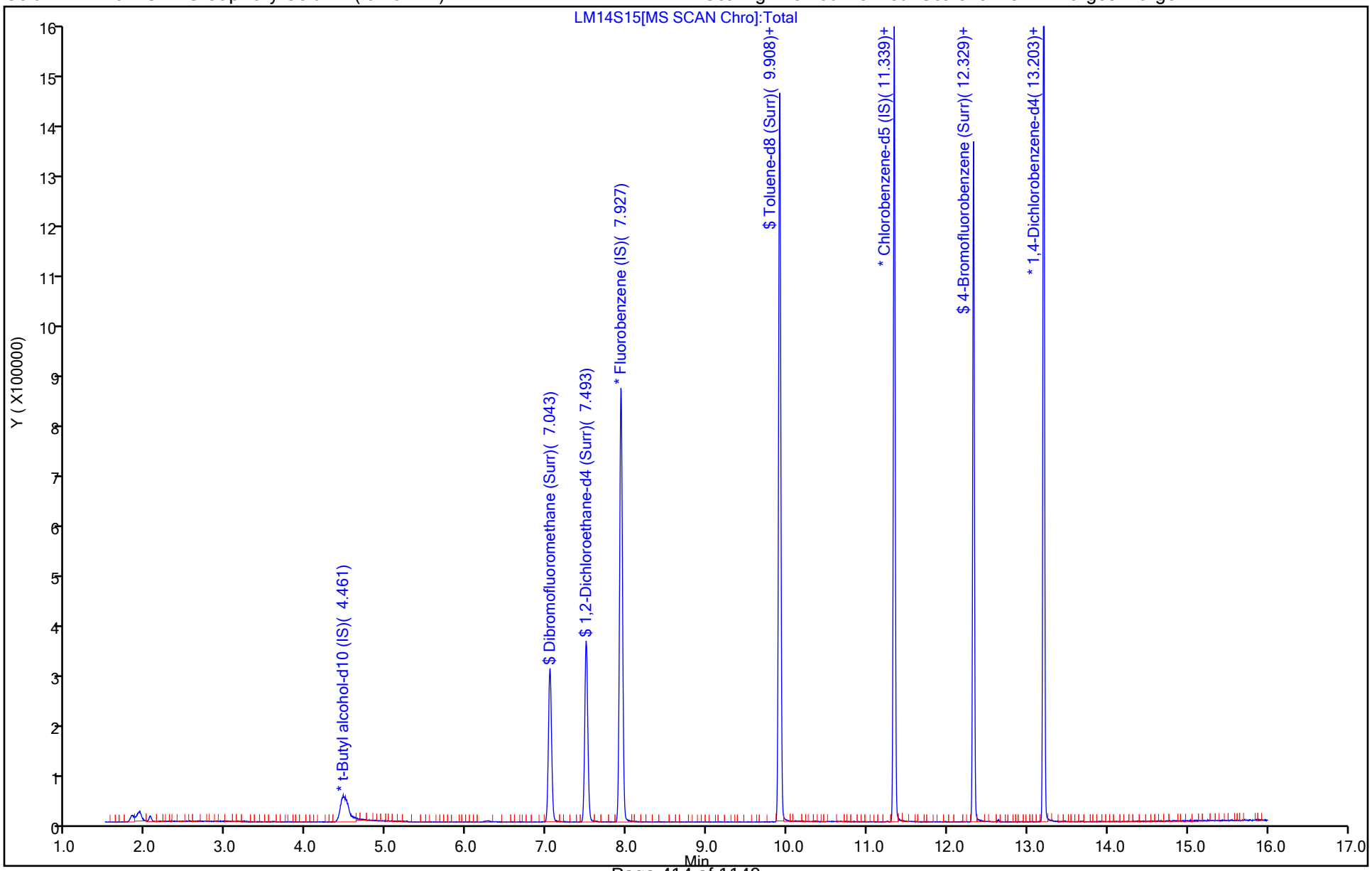
Report Date: 14-Mar-2022 18:40:48 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\LM14S15.D

Injection Date:	14-Mar-2022 16:53:30	Instrument ID:	9915	Operator ID:	clm27445
Lims ID:	410-74987-B-3	Lab Sample ID:	410-74987-3	Worklist Smp#:	22
Client ID:	Trip Blank				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	MSVoa_9915a	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\9915\20220314-52368.b\LM14S15.D
Lims ID: 410-74987-B-3
Client ID: Trip Blank
Sample Type: Client
Inject. Date: 14-Mar-2022 16:53:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052368-022
Operator ID: clm27445 Instrument ID: 9915

Method: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2022 18:38:58 Calib Date: 29-Nov-2021 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1656

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	50.0	50.1	100.27
$ 55 1,2-Dichloroethane-d4 (Surr)	50.0	51.8	103.60
$ 78 Toluene-d8 (Surr)	50.0	50.8	101.58
$ 107 4-Bromofluorobenzene (Surr)	50.0	48.9	97.71

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-199110/11	LN29X11.D
Level 2	IC 410-199110/12	LN29X12.D
Level 3	IC 410-199110/13	LN29X13.D
Level 4	IC 410-199110/14	LN29X14.D
Level 5	ICIS 410-199110/15	LN29X15.D
Level 6	IC 410-199110/16	LN29X16.D
Level 7	IC 410-199110/17	LN29X17.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	0.2642 0.3511	0.3010 0.3228	0.3375	0.2901	0.3402	Ave		0.3153			0.1000	9.9		20.0			
Chloromethane	0.3415 0.3870	0.3676 0.3545	0.3725	0.3408	0.3706	Ave		0.3621			0.1000	4.7		20.0			
1,3-Butadiene	0.3715 0.3960	0.3899 0.3565	0.3893	0.3473	0.3818	Ave		0.3760				4.9		20.0			
Vinyl chloride	0.3305 0.3998	0.3450 0.3625	0.3772	0.3433	0.3734	Ave		0.3617			0.1000	6.6		20.0			
Bromomethane	0.2274 0.2641	0.2351 0.2385	0.2556	0.2313	0.2518	Ave		0.2434			0.1000	5.7		20.0			
Chloroethane	0.1851 0.2175	0.2003 0.1947	0.2071	0.1883	0.2053	Ave		0.1997			0.1000	5.7		20.0			
Dichlorofluoromethane	0.4512 0.5161	0.4753 0.4656	0.5005	0.4607	0.4966	Ave		0.4809			0.1000	5.0		20.0			
Trichlorofluoromethane	0.3760 0.4721	0.4273 0.4293	0.4568	0.3992	0.4585	Ave		0.4313			0.1000	8.0		20.0			
n-Pentane	0.4444 0.4750	0.4375 0.4585	0.4423	0.4483	0.4540	Ave		0.4514				2.8		20.0			
Ethyl ether	0.2219 0.2573	0.2380 0.2458	0.2300	0.2437	0.2429	Ave		0.2399				4.8		20.0			
Freon 123a	0.2785 0.3321	0.3085 0.3034	0.3197	0.2912	0.3176	Ave		0.3073				5.9		20.0			
Acrolein	1.7291 2.3501	1.9214 2.1822	2.0883	2.0466	2.2677	Ave		2.0837				10.1		20.0			
1,1-Dichloroethene	0.2072 0.2414	0.2279 0.2265	0.2247	0.2247	0.2293	Ave		0.2260			0.1000	4.5		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.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

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	0.8089 0.9333	0.8232 0.8920	0.9094	0.8315	0.9249	Ave		0.8748			0.1000	6.0		20.0			
Freon 113	0.1890 0.2417	0.2167 0.2264	0.2200	0.2221	0.2300	Ave		0.2208			0.1000	7.4		20.0			
Methyl iodide	0.3687 0.4151	0.3917 0.3839	0.3933	0.3932	0.3941	Ave		0.3914				3.5		20.0			
2-Propanol	0.4292 0.5927	0.3856 0.5852	0.5531	0.5450	0.5637	Ave		0.5221				15.5		20.0			
Carbon disulfide	0.6240 0.7695	0.6738 0.7288	0.6785	0.6975	0.7097	Ave		0.6974			0.1000	6.6		20.0			
Methyl acetate	0.3228 0.3143	0.2922 0.2923	0.3005	0.2913	0.3033	Ave		0.3024			0.1000	4.0		20.0			
Allyl chloride	0.4090 0.4508	0.4186 0.4256	0.4214	0.4174	0.4269	Ave		0.4243				3.1		20.0			
Methylene Chloride	0.2478 0.2809	0.2653 0.2617	0.2666	0.2685	0.2684	Ave		0.2656			0.1000	3.7		20.0			
t-Butyl alcohol	0.7413 1.0876	0.7040 1.0319	1.0478	1.0523	1.0450	Ave		0.9586				16.9		20.0			
Acrylonitrile	0.1449 0.1606	0.1474 0.1495	0.1472	0.1479	0.1538	Ave		0.1502				3.6		20.0			
Methyl tertiary butyl ether	0.7889 0.8755	0.8140 0.8104	0.8354	0.8410	0.8438	Ave		0.8299			0.1000	3.4		20.0			
trans-1,2-Dichloroethene	0.2417 0.2723	0.2608 0.2548	0.2579	0.2619	0.2618	Ave		0.2588			0.1000	3.6		20.0			
n-Hexane	0.3092 0.4209	0.3604 0.3999	0.3821	0.3889	0.3982	Ave		0.3799				9.5		20.0			
1,1-Dichloroethane	0.4589 0.5012	0.4813 0.4651	0.4723	0.4739	0.4804	Ave		0.4762			0.2000	2.9		20.0			
di-Isopropyl ether	0.8183 0.9457	0.8587 0.8733	0.8757	0.8859	0.9101	Ave		0.8811				4.5		20.0			
2-Chloro-1,3-butadiene	0.3790 0.4457	0.4059 0.4197	0.4082	0.4127	0.4218	Ave		0.4133				4.9		20.0			
Ethyl t-butyl ether	0.8399 0.8994	0.8570 0.8257	0.8602	0.8538	0.8709	Ave		0.8581				2.7		20.0			
2-Butanone	0.1893 0.2154	0.1778 0.2060	0.2000	0.1939	0.2084	Ave		0.1987			0.1000	6.4		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.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

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								
cis-1,2-Dichloroethene	0.2626 0.2973	0.2770 0.2791	0.2822	0.2835	0.2836	Ave		0.2808			0.1000	3.7		20.0			
2,2-Dichloropropane	0.3717 0.4165	0.3945 0.3929	0.3962	0.3910	0.3987	Ave		0.3945				3.3		20.0			
Propionitrile	+++++ 1.5600	0.9355 1.4329	1.4689	1.4212	1.4568	Ave		1.3792				16.2		20.0			
Methacrylonitrile	+++++ 0.1735	0.1059 0.1611	0.1604	0.1636	0.1657	Ave		0.1550				15.8		20.0			
Bromochloromethane	0.1350 0.1473	0.1436 0.1367	0.1453	0.1446	0.1422	Ave		0.1421				3.2		20.0			
Tetrahydrofuran	1.1384 1.3550	1.2202 1.2484	1.2503	1.2194	1.2963	Ave		1.2469				5.4		20.0			
Chloroform	0.4639 0.4895	0.4589 0.4540	0.4664	0.4676	0.4698	Ave		0.4672			0.2000	2.4		20.0			
1,1,1-Trichloroethane	0.3766 0.4376	0.4096 0.4093	0.4098	0.4091	0.4142	Ave		0.4095			0.1000	4.3		20.0			
Cyclohexane	0.3916 0.5127	0.4449 0.4877	0.4650	0.4707	0.4884	Ave		0.4659			0.1000	8.4		20.0			
Carbon tetrachloride	0.2983 0.3659	0.3254 0.3470	0.3296	0.3304	0.3434	Ave		0.3343			0.1000	6.3		20.0			
1,1-Dichloropropene	0.3436 0.3918	0.3615 0.3708	0.3661	0.3707	0.3756	Ave		0.3686				4.0		20.0			
Isobutyl alcohol	0.2524 0.3878	0.2340 0.3684	0.3605	0.3603	0.3700	Ave		0.3334				18.7		20.0			
Benzene	1.0020 1.1404	1.0655 1.0610	1.0941	1.0821	1.0929	Ave		1.0769			0.5000	3.9		20.0			
1,2-Dichloroethane	0.4017 0.4085	0.4007 0.3753	0.4052	0.3952	0.4054	Ave		0.3988			0.1000	2.8		20.0			
t-Amyl methyl ether	0.8011 0.8774	0.8134 0.7872	0.8439	0.8418	0.8453	Ave		0.8300				3.7		20.0			
n-Heptane	0.3621 0.4465	0.3799 0.4306	0.4280	0.4201	0.4347	Ave		0.4146				7.5		20.0			
n-Butanol	0.1518 0.3088	0.1659 0.2907	0.2765	0.2845	0.2922	Lin1	-15.80	0.3002							0.9910		0.9900
Trichloroethene	0.2524 0.2955	0.2717 0.2791	0.2768	0.2777	0.2814	Ave		0.2764			0.2000	4.7		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.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

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								
Methylcyclohexane	0.3660 0.5194	0.4422 0.5009	0.4795	0.4871	0.4974	Ave		0.4704			0.1000	11.0		20.0			
1,2-Dichloropropane	0.2667 0.3079	0.2855 0.2942	0.2871	0.2919	0.2947	Ave		0.2897			0.1000	4.3		20.0			
t-Amyl ethyl ether	0.3578 0.4391	0.3845 0.4181	0.4058	0.4077	0.4184	Ave		0.4045				6.5		20.0			
Methyl methacrylate	0.2242 0.2731	0.2406 0.2645	0.2475	0.2456	0.2652	Ave		0.2515				6.8		20.0			
1,4-Dioxane	+++++ 0.0771	0.0469 0.0699	0.0715	0.0706	0.0748	Ave		0.0685			0.0050	15.9		20.0			
Dibromomethane	0.1820 0.1998	0.1779 0.1857	0.1914	0.1860	0.1920	Ave		0.1878				3.9		20.0			
Bromodichloromethane	0.3273 0.3777	0.3259 0.3583	0.3376	0.3424	0.3562	Ave		0.3465			0.2000	5.4		20.0			
2-Nitropropane	2.3732 3.2150	2.5236 2.9585	2.8285	2.8580	3.0749	Ave		2.8331				10.5		20.0			
2-Chloroethyl vinyl ether	0.1841 0.2391	0.1961 0.2246	0.2083	0.2182	0.2304	Ave		0.2144				9.1		20.0			
cis-1,3-Dichloropropene	0.4050 0.4963	0.4130 0.4733	0.4432	0.4591	0.4744	Ave		0.4520			0.2000	7.4		20.0			
4-Methyl-2-pentanone	0.3636 0.4612	0.3710 0.4340	0.4158	0.4149	0.4499	Ave		0.4158			0.1000	8.9		20.0			
Toluene	0.8027 0.9203	0.8631 0.8418	0.8903	0.8729	0.8738	Ave		0.8664			0.4000	4.3		20.0			
trans-1,3-Dichloropropene	0.4678 0.5980	0.4960 0.5590	0.5258	0.5426	0.5636	Ave		0.5361			0.1000	8.2		20.0			
Ethyl methacrylate	0.4681 0.6267	0.5077 0.5757	0.5430	0.5718	0.5962	Ave		0.5556				9.7		20.0			
1,1,2-Trichloroethane	0.3080 0.3526	0.3221 0.3250	0.3314	0.3344	0.3387	Ave		0.3303			0.1000	4.2		20.0			
Tetrachloroethene	0.3215 0.3762	0.3614 0.3474	0.3588	0.3571	0.3580	Ave		0.3543			0.2000	4.7		20.0			
1,3-Dichloropropane	0.5488 0.5983	0.5463 0.5504	0.5743	0.5607	0.5728	Ave		0.5645				3.3		20.0			
2-Hexanone	0.3331 0.4274	0.3353 0.3948	0.3822	0.3844	0.4201	Ave		0.3825			0.1000	9.7		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.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

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								
Dibromochloromethane	0.2956 0.3926	0.3188 0.3687	0.3374	0.3509	0.3675	Ave		0.3474				9.5		20.0			
1,2-Dibromoethane	0.3346 0.3935	0.3450 0.3631	0.3672	0.3648	0.3759	Ave		0.3634			0.1000	5.3		20.0			
1-Chlorohexane	0.4914 0.5093	0.4638 0.4749	0.4794	0.4648	0.4754	Ave		0.4799				3.3		20.0			
Chlorobenzene	0.8901 1.0016	0.9355 0.9279	0.9698	0.9523	0.9571	Ave		0.9478			0.5000	3.7		20.0			
1,1,1,2-Tetrachloroethane	0.2877 0.3650	0.3122 0.3445	0.3288	0.3306	0.3426	Ave		0.3302				7.5		20.0			
Ethylbenzene	1.5148 1.8157	1.6643 1.6634	1.7150	1.7199	1.7182	Ave		1.6873			0.1000	5.4		20.0			
m&p-Xylene	0.5663 0.6900	0.6405 0.6294	0.6536	0.6607	0.6546	Ave		0.6422			0.1000	6.0		20.0			
o-Xylene	0.5910 0.6909	0.6196 0.6321	0.6477	0.6523	0.6529	Ave		0.6409			0.3000	4.9		20.0			
Styrene	0.8984 1.1783	1.0447 1.0782	1.0936	1.0892	1.1208	Ave		1.0719			0.3000	8.1		20.0			
Bromoform	0.1973 0.2993	0.2226 0.2857	0.2378	0.2621	0.2775	Ave		0.2546			0.1000	14.5		20.0			
Isopropylbenzene	1.3948 1.7863	1.6213 1.5956	1.6809	1.7070	1.6885	Ave		1.6392			0.1000	7.6		20.0			
Cyclohexanone	0.2606 0.3578	0.2897 0.3302	0.3484	0.3162	0.3388	Ave		0.3202				10.8		20.0			
1,1,2,2-Tetrachloroethane	0.9617 1.1287	0.9740 1.0392	1.0150	1.0733	1.0592	Ave		1.0358			0.3000	5.6		20.0			
Bromobenzene	0.7202 0.8335	0.7529 0.7730	0.7875	0.7681	0.7820	Ave		0.7739				4.5		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.3892	0.2148 0.3637	0.3407	0.3513	0.3628	Ave		0.3371				18.4		20.0			
1,2,3-Trichloropropane	0.2856 0.3242	0.3017 0.2989	0.3083	0.3060	0.3092	Ave		0.3048				3.8		20.0			
N-Propylbenzene	3.2447 4.0508	3.6113 3.5950	3.7520	3.7506	3.7726	Ave		3.6824				6.6		20.0			
2-Chlorotoluene	0.6338 0.7892	0.7083 0.7328	0.7370	0.7410	0.7357	Ave		0.7254				6.5		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.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

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								
1,3,5-Trimethylbenzene	2.2269 2.9054	2.5190 2.6323	2.6707	2.6959	2.6984	Ave		2.6212				8.0		20.0			
4-Chlorotoluene	0.6589 0.8101	0.7295 0.7541	0.7549	0.7665	0.7584	Ave		0.7475				6.1		20.0			
tert-Butylbenzene	0.4385 0.5739	0.4711 0.5281	0.5125	0.5198	0.5299	Ave		0.5105				8.6		20.0			
1,2,4-Trimethylbenzene	2.3560 2.9749	2.6126 2.6732	2.7400	2.7817	2.7842	Ave		2.7032				7.0		20.0			
sec-Butylbenzene	2.5763 3.5441	3.0527 3.1159	3.2820	3.2924	3.3043	Ave		3.1668				9.6		20.0			
1,3-Dichlorobenzene	1.3794 1.5891	1.4735 1.4430	1.4914	1.4970	1.4903	Ave		1.4805			0.6000	4.3		20.0			
p-Isopropyltoluene	2.2657 3.1014	2.6441 2.7536	2.8415	2.8549	2.8787	Ave		2.7629				9.4		20.0			
1,4-Dichlorobenzene	1.4578 1.6079	1.4854 1.4582	1.5256	1.5407	1.5158	Ave		1.5130			0.5000	3.5		20.0			
1,2,3-Trimethylbenzene	2.4247 3.0278	2.6945 2.7256	2.7907	2.8122	2.8147	Ave		2.7557				6.6		20.0			
Benzyl chloride	1.6189 2.3652	1.8036 2.1742	1.9598	2.0879	2.1917	Ave		2.0287				12.5		20.0			
1,3-Diethylbenzene	1.3757 1.8201	1.5910 1.6379	1.7103	1.7220	1.7014	Ave		1.6512				8.5		20.0			
1,4-Diethylbenzene	1.3652 1.8883	1.6515 1.6997	1.7684	1.7759	1.7737	Ave		1.7032				9.8		20.0			
n-Butylbenzene	1.1382 1.5585	1.3275 1.4175	1.4442	1.4642	1.4608	Ave		1.4016				9.6		20.0			
1,2-Dichlorobenzene	1.3943 1.5488	1.4518 1.3918	1.4816	1.4860	1.4733	Ave		1.4611			0.4000	3.8		20.0			
1,2-Diethylbenzene	1.1454 1.5213	1.3267 1.3770	1.4210	1.4314	1.4304	Ave		1.3790				8.6		20.0			
1,2-Dibromo-3-Chloropropane	0.2143 0.2761	0.2306 0.2512	0.2319	0.2489	0.2568	Ave		0.2443			0.0500	8.3		20.0			
1,3,5-Trichlorobenzene	0.9617 1.1824	1.0486 1.0596	1.1001	1.1131	1.0966	Ave		1.0803				6.3		20.0			
1,2,4-Trichlorobenzene	0.9616 1.1417	1.0074 1.0245	1.0855	1.0902	1.0727	Ave		1.0548			0.2000	5.7		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.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

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								
Hexachlorobutadiene	0.4063 0.4907	0.4044 0.4437	0.4369	0.4460	0.4577	Ave		0.4408				6.8		20.0			
Naphthalene	3.0451 3.8089	3.3247 3.2639	3.5114	3.6213	3.6161	Ave		3.4559				7.5		20.0			
1,2,3-Trichlorobenzene	0.9485 1.0922	0.9905 0.9678	1.0401	1.0442	1.0366	Ave		1.0171				4.9		20.0			
2-Methylnaphthalene	1.4365 2.0273	1.6344 1.7842	1.8668	1.9706	1.9928	Ave		1.8161				11.9		20.0			
Dibromofluoromethane (Surr)	0.2489 0.2471	0.2502 0.2463	0.2485	0.2479	0.2515	Ave		0.2486				0.7		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0614 0.0607	0.0620 0.0604	0.0605	0.0608	0.0615	Ave		0.0611				1.0		20.0			
Toluene-d8 (Surr)	1.2896 1.2886	1.2951 1.2618	1.3025	1.2983	1.2936	Ave		1.2899				1.0		20.0			
4-Bromofluorobenzene (Surr)	0.4895 0.4877	0.4906 0.4853	0.4926	0.4894	0.4901	Ave		0.4893				0.5		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-199110/11	LN29X11.D
Level 2	IC 410-199110/12	LN29X12.D
Level 3	IC 410-199110/13	LN29X13.D
Level 4	IC 410-199110/14	LN29X14.D
Level 5	ICIS 410-199110/15	LN29X15.D
Level 6	IC 410-199110/16	LN29X16.D
Level 7	IC 410-199110/17	LN29X17.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	5901 796081	28109 2396109	74521	134876	390634	1.00 100	4.00 300	10.0	20.0	50.0
Chloromethane	FB	Ave	7627 877473	34335 2632003	82254	158443	425627	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Butadiene	FB	Ave	8297 897770	36419 2646264	85967	161438	438495	1.00 100	4.00 300	10.0	20.0	50.0
Vinyl chloride	FB	Ave	7381 906405	32223 2691327	83280	159585	428834	1.00 100	4.00 300	10.0	20.0	50.0
Bromomethane	FB	Ave	5079 598812	21958 1770432	56426	107514	289145	1.00 100	4.00 300	10.0	20.0	50.0
Chloroethane	FB	Ave	4133 493056	18709 1445390	45721	87524	235784	1.00 100	4.00 300	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	10076 1170015	44393 3456805	110514	214173	570260	1.00 100	4.00 300	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	8397 1070431	39913 3187326	100866	185585	526540	1.00 100	4.00 300	10.0	20.0	50.0
n-Pentane	FB	Ave	9925 1076911	40865 3403878	97652	208417	521388	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl ether	FB	Ave	4956 583515	22229 1824953	50792	113297	278968	1.00 100	4.00 300	10.0	20.0	50.0
Freon 123a	FB	Ave	6219 753014	28811 2252572	70593	135371	364775	1.00 100	4.00 300	10.0	20.0	50.0
Acrolein	TBAd 10	Ave	17620 2179685	75562 6762752	189976	401864	1070908	10.0 1002	40.1 3006	100	200	501
1,1-Dichloroethene	FB	Ave	4628 547417	21285 1681439	49611	104454	263290	1.00 100	4.00 300	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

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	1645 172742	6461 551684	16511	32584	87172	2.00 200	8.00 600	20.0	40.0	100
Freon 113	FB	Ave	4221 547961	20236 1681118	48585	103249	264140	1.00 100	4.00 300	10.0	20.0	50.0
Methyl iodide	FB	Ave	8234 941087	36585 2849921	86835	182784	452593	1.00 100	4.00 300	10.0	20.0	50.0
2-Propanol	TBAd10	Ave	8729 274260	30266 904779	50206	106782	132809	20.0 500	80.0 1500	100	200	250
Carbon disulfide	FB	Ave	13936 1744562	62934 5410702	149820	324254	814980	1.00 100	4.00 300	10.0	20.0	50.0
Methyl acetate	FB	Ave	7209 712639	27294 2169647	66356	135398	348286	1.00 100	4.00 300	10.0	20.0	50.0
Allyl chloride	FB	Ave	9135 1022069	39098 3159776	93051	194030	490271	1.00 100	4.00 300	10.0	20.0	50.0
Methylene Chloride	FB	Ave	5535 636778	24778 1942501	58864	124836	308273	1.00 100	4.00 300	10.0	20.0	50.0
t-Butyl alcohol	TBAd10	Ave	15075 503297	55254 1595501	95119	206186	246222	20.0 500	80.0 1500	100	200	250
Acrylonitrile	FB	Ave	8093 910176	34407 2774384	81260	171932	441512	2.50 250	10.0 750	25.0	50.0	125
Methyl tertiary butyl ether	FB	Ave	17618 1984997	76024 6016440	184467	390957	968983	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	5399 617403	24363 1891377	56954	121768	300676	1.00 100	4.00 300	10.0	20.0	50.0
n-Hexane	FB	Ave	6905 954176	33662 2968941	84368	180784	457305	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloroethane	FB	Ave	10249 1136311	44954 3452675	104286	220310	551677	1.00 100	4.00 300	10.0	20.0	50.0
di-Isopropyl ether	FB	Ave	18276 2144122	80201 6483058	193359	411831	1045114	1.00 100	4.00 300	10.0	20.0	50.0
2-Chloro-1,3-butadiene	FB	Ave	8465 1010571	37912 3115595	90137	191839	484364	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl t-butyl ether	FB	Ave	18758	80045	189942	396917	1000078	1.00	4.00	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

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
			2039204	6129880				100	300			
2-Butanone	FB	Ave	8456 976938	33221 3058001	88311	180312	478711	2.00 200	8.00 600	20.0	40.0	100
cis-1,2-Dichloroethene	FB	Ave	5865 674122	25874 2071919	62311	131783	325652	1.00 100	4.00 300	10.0	20.0	50.0
2,2-Dichloropropane	FB	Ave	8302 944359	36848 2916838	87487	181760	457897	1.00 100	4.00 300	10.0	20.0	50.0
Propionitrile	TBAd 10	Ave	+++++ 721890	73422 2215523	133340	278462	343242	+++++ 500	80.0 1500	100	200	250
Methacrylonitrile	FB	Ave	+++++ 983228	98950 2989215	177111	380351	475775	+++++ 250	40.0 750	50.0	100	125
Bromochloromethane	FB	Ave	3014 334000	13410 1015089	32079	67221	163343	1.00 100	4.00 300	10.0	20.0	50.0
Tetrahydrofuran	TBAd 10	Ave	5788 627002	23941 1930276	56747	119460	305437	5.00 500	20.0 1500	50.0	100	250
Chloroform	FB	Ave	10361 1109809	42858 3370482	102973	217392	539485	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	8410 992189	38258 3038607	90493	190175	475662	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexane	FB	Ave	8745 1162484	41556 3620398	102678	218813	560824	1.00 100	4.00 300	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	6662 829672	30395 2576011	72786	153577	394340	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	7673 888368	33762 2752522	80832	172336	431359	1.00 100	4.00 300	10.0	20.0	50.0
Isobutyl alcohol	TBAd 10	Ave	12834 448597	45916 1424103	81816	176489	217958	50.0 1250	200 3750	250	500	625
Benzene	FB	Ave	22379 2585591	99521 7876533	241571	503036	1255110	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	8972 926106	37422 2786092	89460	183705	465495	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl methyl ether	FB	Ave	17892 1989332	75969 5844256	186337	391318	970693	1.00 100	4.00 300	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Heptane	FB	Ave	8087 1012385	35481 3196886	94512	195293	499236	1.00 100	4.00 300	10.0	20.0	50.0
n-Butanol	TBAd 10	Lin1	13502 357195	56949 1123494	94129	209031	172119	87.5 1250	350 3750	375	750	625
Trichloroethene	FB	Ave	5638 670062	25377 2072086	61128	129077	323145	1.00 100	4.00 300	10.0	20.0	50.0
Methylcyclohexane	FB	Ave	8175 1177574	41297 3718986	105871	226466	571182	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloropropane	FB	Ave	5956 698048	26664 2184334	63398	135677	338480	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl ethyl ether	FB	Ave	7990 995530	35908 3104139	89603	189535	480451	1.00 100	4.00 300	10.0	20.0	50.0
Methyl methacrylate	FB	Ave	5008 619134	22475 1963979	54651	114167	304586	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dioxane	TBAd 10	Ave	+++++ 89190	9205 270119	16227	34562	44036	+++++ 1250	200 3750	250	500	625
Dibromomethane	FB	Ave	4064 452906	16614 1378330	42257	86448	220459	1.00 100	4.00 300	10.0	20.0	50.0
Bromodichloromethane	FB	Ave	7309 856213	30438 2659740	74547	159160	409096	1.00 100	4.00 300	10.0	20.0	50.0
2-Nitropropane	TBAd 10	Ave	12066 1487698	49514 4574297	128382	279983	724496	5.00 500	20.0 1500	50.0	100	250
2-Chloroethyl vinyl ether	FB	Ave	4111 542197	18320 1667608	46001	101422	264537	1.00 100	4.00 300	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	9046 1125114	38570 3513505	97869	213434	544841	1.00 100	4.00 300	10.0	20.0	50.0
4-Methyl-2-pentanone	FB	Ave	16242 2091242	69305 6443600	183629	385719	1033367	2.00 200	8.00 600	20.0	40.0	100
Toluene	CBZd 5	Ave	13874 1632859	62968 4977523	153502	318125	791107	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBZd 5	Ave	8086	36189	90653	197723	510255	1.00	4.00	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

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
			1061132	3305481				100	300			
Ethyl methacrylate	CBZd5	Ave	8090 1112028	37039 3404349	93631	208380	539732	1.00 100	4.00 300	10.0	20.0	50.0
1,1,2-Trichloroethane	CBZd5	Ave	5324 625637	23500 1921918	57132	121862	306654	1.00 100	4.00 300	10.0	20.0	50.0
Tetrachloroethene	CBZd5	Ave	5557 667477	26365 2054327	61863	130119	324114	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichloropropane	CBZd5	Ave	9486 1061646	39855 3254620	99018	204335	518532	1.00 100	4.00 300	10.0	20.0	50.0
2-Hexanone	CBZd5	Ave	11515 1516575	48921 4668341	131807	280161	760634	2.00 200	8.00 600	20.0	40.0	100
Dibromochloromethane	CBZd5	Ave	5110 696643	23257 2180092	58182	127868	332707	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromoethane	CBZd5	Ave	5783 698235	25168 2146959	63314	132952	340332	1.00 100	4.00 300	10.0	20.0	50.0
1-Chlorohexane	CBZd5	Ave	8494 903697	33837 2807866	82663	169388	430364	1.00 100	4.00 300	10.0	20.0	50.0
Chlorobenzene	CBZd5	Ave	15385 1777210	68249 5486553	167221	347041	866463	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBZd5	Ave	4973 647638	22779 2037087	56692	120491	310205	1.00 100	4.00 300	10.0	20.0	50.0
Ethylbenzene	CBZd5	Ave	26181 3221647	121423 9835772	295705	626795	1555470	1.00 100	4.00 300	10.0	20.0	50.0
m&p-Xylene	CBZd5	Ave	19577	93460	225375	481570	1185258	2.00	8.00	20.0	40.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

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
			2448554	7442973				200	600			
o-Xylene	CBZd 5	Ave	10215 1225975	45207 3737393	111672	237734	591082	1.00 100	4.00 300	10.0	20.0	50.0
Styrene	CBZd 5	Ave	15528 2090776	76219 6375517	188567	396926	1014673	1.00 100	4.00 300	10.0	20.0	50.0
Bromoform	CBZd 5	Ave	3410 531030	16241 1689510	40998	95522	251203	1.00 100	4.00 300	10.0	20.0	50.0
Isopropylbenzene	CBZd 5	Ave	24107 3169446	118287 9434819	289822	622078	1528627	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexanone	TBAd 10	Ave	13249 413928	56849 1276290	79060	154909	199586	50.0 1250	200 3750	250	500	625
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	8989 1046877	38427 3219907	94405	209960	511781	1.00 100	4.00 300	10.0	20.0	50.0
Bromobenzene	DCBd 4	Ave	6732 773059	29703 2395270	73248	150259	377851	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 902555	84742 2817738	158435	343655	438248	+++++ 250	40.0 750	50.0	100	125
1,2,3-Trichloropropane	DCBd 4	Ave	2670 300655	11903 926150	28671	59860	149382	1.00 100	4.00 300	10.0	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	30329 3757112	142479 11139410	348980	733722	1822893	1.00 100	4.00 300	10.0	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	5924 731967	27946 2270558	68553	144964	355510	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	20815	99384	248409	527392	1303867	1.00	4.00	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

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
			2694801	8156280				100	300			
4-Chlorotoluene	DCBd 4	Ave	6159 751343	28782 2336487	70216	149941	366477	1.00 100	4.00 300	10.0	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	4099 532256	18585 1636199	47673	101678	256060	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	22022 2759225	103079 8283157	254852	544171	1345320	1.00 100	4.00 300	10.0	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	24081 3287165	120441 9654945	305266	644078	1596623	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	12893 1473920	58135 4471243	138714	292848	720106	1.00 100	4.00 300	10.0	20.0	50.0
p-Isopropyltoluene	DCBd 4	Ave	21178 2876532	104322 8532276	264296	558502	1390961	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dichlorobenzene	DCBd 4	Ave	13626 1491298	58603 4518258	141903	301402	732425	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	22664 2808321	106307 8445452	259564	550137	1360068	1.00 100	4.00 300	10.0	20.0	50.0
Benzyl chloride	DCBd 4	Ave	15132 2193724	71158 6736807	182281	408452	1059038	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Diethylbenzene	DCBd 4	Ave	12859 1688163	62770 5075268	159078	336871	822120	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Diethylbenzene	DCBd 4	Ave	12761 1751410	65159 5266750	164481	347410	857026	1.00 100	4.00 300	10.0	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	10639	52374	134328	286438	705870	1.00	4.00	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

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
			1445521	4392355				100	300			
1,2-Dichlorobenzene	DCBd 4	Ave	13033 1436555	57278 4312453	137806	290701	711904	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Diethylbenzene	DCBd 4	Ave	10706 1411049	52344 4266845	132166	280028	691183	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	2003 256102	9100 778304	21566	48684	124105	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	8989 1096690	41371 3283306	102326	217746	529870	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	8988 1058952	39744 3174328	100964	213281	518331	1.00 100	4.00 300	10.0	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	3798 455117	15955 1374705	40635	87244	221180	1.00 100	4.00 300	10.0	20.0	50.0
Naphthalene	DCBd 4	Ave	28463 3532737	131173 10113405	326600	708432	1747295	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	8866 1013044	39080 2998925	96738	204271	500896	1.00 100	4.00 300	10.0	20.0	50.0
2-Methylnaphthalene	DCBd 4	Ave	13427 1880356	64484 5528591	173636	385513	962897	1.00 100	4.00 300	10.0	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	277984 280062	292050 304700	274318	288084	288814	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	68618 68853	72384 74731	66776	70713	70680	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBZd 5	Ave	1114477 1143200	1181117 1243468	1122933	1182884	1171108	50.0 50.0	50.0 50.0	50.0	50.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

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
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	423005 432693	447443 478220	424639	445919	443679	50.0 50.0	50.0 50.0	50.0	50.0	50.0

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.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-199110/11	LN29X11.D
Level 2	IC 410-199110/12	LN29X12.D
Level 3	IC 410-199110/13	LN29X13.D
Level 4	IC 410-199110/14	LN29X14.D
Level 5	ICIS 410-199110/15	LN29X15.D
Level 6	IC 410-199110/16	LN29X16.D
Level 7	IC 410-199110/17	LN29X17.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	-16.2 2.4	-4.5	7.1	-8.0	7.9	11.4	50 30	30	30	30	30	30
Chloromethane	-5.7 -2.1	1.5	2.9	-5.9	2.4	6.9	50 30	30	30	30	30	30
1,3-Butadiene	-1.2 -5.2	3.7	3.5	-7.7	1.5	5.3	50 30	30	30	30	30	30
Vinyl chloride	-8.6 0.2	-4.6	4.3	-5.1	3.3	10.5	50 30	30	30	30	30	30
Bromomethane	-6.6 -2.0	-3.4	5.0	-5.0	3.5	8.5	50 30	30	30	30	30	30
Chloroethane	-7.4 -2.5	0.3	3.7	-5.7	2.8	8.9	50 30	30	30	30	30	30
Dichlorofluoromethane	-6.2 -3.2	-1.2	4.1	-4.2	3.3	7.3	50 30	30	30	30	30	30
Trichlorofluoromethane	-12.8 -0.5	-0.9	5.9	-7.4	6.3	9.5	50 30	30	30	30	30	30
n-Pentane	-1.6 1.6	-3.1	-2.0	-0.7	0.6	5.2	50 30	30	30	30	30	30
Ethyl ether	-7.5 2.4	-0.8	-4.1	1.6	1.2	7.3	50 30	30	30	30	30	30
Freon 123a	-9.4 -1.3	0.4	4.0	-5.2	3.4	8.1	50 30	30	30	30	30	30
Acrolein	-17.0 4.7	-7.8	0.2	-1.8	8.8	12.8	50 30	30	30	30	30	30
1,1-Dichloroethene	-8.3 0.2	0.9	-0.6	-0.6	1.5	6.9	50 30	30	30	30	30	30
Acetone	-7.5 2.0	-5.9	4.0	-4.9	5.7	6.7	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

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
Freon 113	-14.4 2.5	-1.9	-0.4	0.6	4.1	9.4	50 30	30	30	30	30	30
Methyl iodide	-5.8 -1.9	0.1	0.5	0.5	0.7	6.0	50 30	30	30	30	30	30
2-Propanol	-17.8 12.1	-26.1	5.9	4.4	8.0	13.5	50 30	30	30	30	30	30
Carbon disulfide	-10.5 4.5	-3.4	-2.7	0.0	1.8	10.3	50 30	30	30	30	30	30
Methyl acetate	6.8 -3.3	-3.4	-0.6	-3.7	0.3	4.0	50 30	30	30	30	30	30
Allyl chloride	-3.6 0.3	-1.3	-0.7	-1.6	0.6	6.3	50 30	30	30	30	30	30
Methylene Chloride	-6.7 -1.5	-0.1	0.4	1.1	1.1	5.7	50 30	30	30	30	30	30
t-Butyl alcohol	-22.7 7.6	-26.6	9.3	9.8	9.0	13.5	50 30	30	30	30	30	30
Acrylonitrile	-3.5 -0.5	-1.9	-2.0	-1.5	2.4	6.9	50 30	30	30	30	30	30
Methyl tertiary butyl ether	-4.9 -2.3	-1.9	0.7	1.3	1.7	5.5	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-6.6 -1.5	0.8	-0.3	1.2	1.2	5.2	50 30	30	30	30	30	30
n-Hexane	-18.6 5.3	-5.1	0.6	2.4	4.8	10.8	50 30	30	30	30	30	30
1,1-Dichloroethane	-3.6 -2.3	1.1	-0.8	-0.5	0.9	5.3	50 30	30	30	30	30	30
di-Isopropyl ether	-7.1 -0.9	-2.5	-0.6	0.5	3.3	7.3	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-8.3 1.5	-1.8	-1.2	-0.2	2.1	7.9	50 30	30	30	30	30	30
Ethyl t-butyl ether	-2.1 -3.8	-0.1	0.2	-0.5	1.5	4.8	50 30	30	30	30	30	30
2-Butanone	-4.7 3.7	-10.5	0.6	-2.4	4.9	8.4	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-6.5 -0.6	-1.3	0.5	1.0	1.0	5.9	50 30	30	30	30	30	30
2,2-Dichloropropane	-5.8 -0.4	0.0	0.4	-0.9	1.1	5.6	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.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

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
Propionitrile	+++++ 3.9	-32.2	6.5	3.0	5.6	13.1	30	50	30	30	30	30
Methacrylonitrile	+++++ 3.9	-31.7	3.5	5.5	6.9	11.9	30	50	30	30	30	30
Bromochloromethane	-5.0 -3.8	1.0	2.2	1.8	0.1	3.7	50 30	30	30	30	30	30
Tetrahydrofuran	-8.7 0.1	-2.1	0.3	-2.2	4.0	8.7	50 30	30	30	30	30	30
Chloroform	-0.7 -2.8	-1.8	-0.2	0.1	0.6	4.8	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-8.0 0.0	0.0	0.1	-0.1	1.2	6.9	50 30	30	30	30	30	30
Cyclohexane	-15.9 4.7	-4.5	-0.2	1.0	4.8	10.1	50 30	30	30	30	30	30
Carbon tetrachloride	-10.8 3.8	-2.7	-1.4	-1.2	2.7	9.5	50 30	30	30	30	30	30
1,1-Dichloropropene	-6.8 0.6	-1.9	-0.7	0.6	1.9	6.3	50 30	30	30	30	30	30
Isobutyl alcohol	-24.3 10.5	-29.8	8.1	8.1	11.0	16.3	50 30	30	30	30	30	30
Benzene	-6.9 -1.5	-1.1	1.6	0.5	1.5	5.9	50 30	30	30	30	30	30
1,2-Dichloroethane	0.7 -5.9	0.5	1.6	-0.9	1.6	2.4	50 30	30	30	30	30	30
t-Amyl methyl ether	-3.5 -5.2	-2.0	1.7	1.4	1.8	5.7	50 30	30	30	30	30	30
n-Heptane	-12.7 3.9	-8.4	3.2	1.3	4.9	7.7	50 30	30	30	30	30	30
n-Butanol	10.7 -1.8	-29.7	6.2	1.8	5.8	7.1	50 30	30	30	30	30	30
Trichloroethene	-8.7 1.0	-1.7	0.2	0.5	1.8	6.9	50 30	30	30	30	30	30
Methylcyclohexane	-22.2 6.5	-6.0	1.9	3.6	5.7	10.4	50 30	30	30	30	30	30
1,2-Dichloropropane	-7.9 1.6	-1.5	-0.9	0.7	1.7	6.3	50 30	30	30	30	30	30
t-Amyl ethyl ether	-11.5 3.4	-4.9	0.3	0.8	3.4	8.6	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.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

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 methacrylate	-10.9 5.2	-4.3	-1.6	-2.4	5.4	8.6	50 30	30	30	30	30	30
1,4-Dioxane	+++++ 2.1	-31.5	4.5	3.1	9.2	12.6	 30	50	30	30	30	30
Dibromomethane	-3.1 -1.1	-5.3	1.9	-1.0	2.2	6.4	50 30	30	30	30	30	30
Bromodichloromethane	-5.5 3.4	-5.9	-2.6	-1.2	2.8	9.0	50 30	30	30	30	30	30
2-Nitropropane	-16.2 4.4	-10.9	-0.2	0.9	8.5	13.5	50 30	30	30	30	30	30
2-Chloroethyl vinyl ether	-14.1 4.8	-8.5	-2.8	1.8	7.4	11.5	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-10.4 4.7	-8.6	-1.9	1.6	5.0	9.8	50 30	30	30	30	30	30
4-Methyl-2-pentanone	-12.5 4.4	-10.8	0.0	-0.2	8.2	10.9	50 30	30	30	30	30	30
Toluene	-7.4 -2.8	-0.4	2.8	0.8	0.9	6.2	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-12.7 4.3	-7.5	-1.9	1.2	5.1	11.5	50 30	30	30	30	30	30
Ethyl methacrylate	-15.8 3.6	-8.6	-2.3	2.9	7.3	12.8	50 30	30	30	30	30	30
1,1,2-Trichloroethane	-6.7 -1.6	-2.5	0.3	1.2	2.5	6.7	50 30	30	30	30	30	30
Tetrachloroethene	-9.3 -1.9	2.0	1.3	0.8	1.0	6.2	50 30	30	30	30	30	30
1,3-Dichloropropane	-2.8 -2.5	-3.2	1.7	-0.7	1.5	6.0	50 30	30	30	30	30	30
2-Hexanone	-12.9 3.2	-12.3	-0.1	0.5	9.8	11.7	50 30	30	30	30	30	30
Dibromochloromethane	-14.9 6.1	-8.2	-2.9	1.0	5.8	13.0	50 30	30	30	30	30	30
1,2-Dibromoethane	-7.9 -0.1	-5.1	1.0	0.4	3.4	8.3	50 30	30	30	30	30	30
1-Chlorohexane	2.4 -1.0	-3.3	-0.1	-3.1	-0.9	6.1	50 30	30	30	30	30	30
Chlorobenzene	-6.1 -2.1	-1.3	2.3	0.5	1.0	5.7	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,1,1,2-Tetrachloroethane	-12.9 4.3	-5.5	-0.4	0.1	3.8	10.5	50 30	30	30	30	30	30
Ethylbenzene	-10.2 -1.4	-1.4	1.6	1.9	1.8	7.6	50 30	30	30	30	30	30
m&p-Xylene	-11.8 -2.0	-0.3	1.8	2.9	1.9	7.4	50 30	30	30	30	30	30
o-Xylene	-7.8 -1.4	-3.3	1.1	1.8	1.9	7.8	50 30	30	30	30	30	30
Styrene	-16.2 0.6	-2.5	2.0	1.6	4.6	9.9	50 30	30	30	30	30	30
Bromoform	-22.5 12.2	-12.6	-6.6	2.9	9.0	17.5	50 30	30	30	30	30	30
Isopropylbenzene	-14.9 -2.7	-1.1	2.5	4.1	3.0	9.0	50 30	30	30	30	30	30
Cyclohexanone	-18.6 3.1	-9.5	8.8	-1.2	5.8	11.7	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-7.2 0.3	-6.0	-2.0	3.6	2.3	9.0	50 30	30	30	30	30	30
Bromobenzene	-6.9 -0.1	-2.7	1.8	-0.7	1.0	7.7	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	+++++ 7.9	-36.3	1.1	4.2	7.6	15.5	 30	50	30	30	30	30
1,2,3-Trichloropropane	-6.3 -1.9	-1.0	1.1	0.4	1.4	6.3	50 30	30	30	30	30	30
N-Propylbenzene	-11.9 -2.4	-1.9	1.9	1.9	2.4	10.0	50 30	30	30	30	30	30
2-Chlorotoluene	-12.6 1.0	-2.4	1.6	2.2	1.4	8.8	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-15.0 0.4	-3.9	1.9	2.8	2.9	10.8	50 30	30	30	30	30	30
4-Chlorotoluene	-11.8 0.9	-2.4	1.0	2.5	1.5	8.4	50 30	30	30	30	30	30
tert-Butylbenzene	-14.1 3.4	-7.7	0.4	1.8	3.8	12.4	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-12.8 -1.1	-3.4	1.4	2.9	3.0	10.0	50 30	30	30	30	30	30
sec-Butylbenzene	-18.6 -1.6	-3.6	3.6	4.0	4.3	11.9	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.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,3-Dichlorobenzene	-6.8 -2.5	-0.5	0.7	1.1	0.7	7.3	50 30	30	30	30	30	30
p-Isopropyltoluene	-18.0 -0.3	-4.3	2.8	3.3	4.2	12.3	50 30	30	30	30	30	30
1,4-Dichlorobenzene	-3.7 -3.6	-1.8	0.8	1.8	0.2	6.3	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-12.0 -1.1	-2.2	1.3	2.0	2.1	9.9	50 30	30	30	30	30	30
Benzyl chloride	-20.2 7.2	-11.1	-3.4	2.9	8.0	16.6	50 30	30	30	30	30	30
1,3-Diethylbenzene	-16.7 -0.8	-3.6	3.6	4.3	3.0	10.2	50 30	30	30	30	30	30
1,4-Diethylbenzene	-19.8 -0.2	-3.0	3.8	4.3	4.1	10.9	50 30	30	30	30	30	30
n-Butylbenzene	-18.8 1.1	-5.3	3.0	4.5	4.2	11.2	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-4.6 -4.7	-0.6	1.4	1.7	0.8	6.0	50 30	30	30	30	30	30
1,2-Diethylbenzene	-16.9 -0.1	-3.8	3.0	3.8	3.7	10.3	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-12.3 2.8	-5.6	-5.1	1.9	5.2	13.0	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-11.0 -1.9	-2.9	1.8	3.0	1.5	9.5	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-8.8 -2.9	-4.5	2.9	3.4	1.7	8.2	50 30	30	30	30	30	30
Hexachlorobutadiene	-7.8 0.6	-8.3	-0.9	1.2	3.8	11.3	50 30	30	30	30	30	30
Naphthalene	-11.9 -5.6	-3.8	1.6	4.8	4.6	10.2	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-6.7 -4.8	-2.6	2.3	2.7	1.9	7.4	50 30	30	30	30	30	30
2-Methylnaphthalene	-20.9 -1.8	-10.0	2.8	8.5	9.7	11.6	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	0.1 -0.9	0.6	-0.1	-0.3	1.2	-0.6	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	0.6 -1.1	1.5	-1.0	-0.4	0.8	-0.5	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 199110

SDG No.:

Instrument ID: 9915 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2021 15:48 Calibration End Date: 11/29/2021 18:00 Calibration ID: 33469

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
Toluene-d8 (Surr)	0.0 -2.2	0.4	1.0	0.7	0.3	-0.1	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	0.0 -0.8	0.3	0.7	0.0	0.2	-0.3	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X11.D
Lims ID: IC v1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 29-Nov-2021 15:48:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045073-011
Misc. Info.: IC
Operator ID: kas02648 Instrument ID: 9915
Sublist: chrom-MSVoa_9915a*sub45

Method: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 29-Nov-2021 23:40:43 Calib Date: 29-Nov-2021 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: campbellme Date: 29-Nov-2021 22:52:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.088	2.075	0.013	44	5901	1.00	0.8381	
4 Chloromethane	50	2.288	2.284	0.004	98	7627	1.00	0.9431	
5 Butadiene	39	2.407	2.403	0.004	93	8297	1.00	0.9879	
6 Vinyl chloride	62	2.413	2.410	0.003	79	7381	1.00	0.9138	
8 Bromomethane	94	2.767	2.757	0.010	92	5079	1.00	0.9344	
9 Chloroethane	64	2.841	2.840	0.001	48	4133	1.00	0.9265	
10 Dichlorofluoromethane	67	3.095	3.091	0.004	95	10076	1.00	0.9383	
11 Trichlorofluoromethane	101	3.107	3.165	-0.058	52	8397	1.00	0.8717	
12 Pentane	43	3.197	3.197	0.000	93	9925	1.00	0.9844	
14 Ethyl ether	59	3.419	3.419	0.000	98	4956	1.00	0.9248	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.516	3.509	0.007	41	6219	1.00	0.9062	
16 Acrolein	56	3.599	3.599	0.000	98	17620	10.0	8.32	
17 1,1-Dichloroethene	96	3.747	3.744	0.003	97	4628	1.00	0.9171	
18 Acetone	58	3.783	3.779	0.004	83	1645	2.00	1.85	
19 112TCTFE	101	3.779	3.786	-0.007	38	4221	1.00	0.8558	
20 Iodomethane	142	3.947	3.950	-0.003	98	8234	1.00	0.9419	
21 Isopropyl alcohol	45	3.960	3.956	0.004	74	8729	20.0	16.4	M
22 Carbon disulfide	76	4.053	4.053	0.000	100	13936	1.00	0.8947	
24 Methyl acetate	43	4.217	4.220	-0.003	83	7209	1.00	1.07	
25 3-Chloro-1-propene	41	4.242	4.249	-0.007	90	9135	1.00	0.9641	
26 Methylene Chloride	84	4.445	4.445	0.000	69	5535	1.00	0.9331	
* 27 t-Butyl alcohol-d10 (IS)	65	4.455	4.461	-0.006	56	254211	250.0	250.0	M
28 2-Methyl-2-propanol	59	4.590	4.602	-0.012	86	15075	20.0	15.5	
29 Acrylonitrile	53	4.799	4.795	0.004	94	8093	2.50	2.41	
31 Methyl tert-butyl ether	73	4.863	4.860	0.003	92	17618	1.00	0.9506	
32 trans-1,2-Dichloroethene	96	4.857	4.863	-0.006	92	5399	1.00	0.9342	
33 Hexane	57	5.281	5.287	-0.006	90	6905	1.00	0.8138	
35 1,1-Dichloroethane	63	5.519	5.528	-0.009	95	10249	1.00	0.9638	
36 Isopropyl ether	45	5.586	5.583	0.003	94	18276	1.00	0.9288	
37 2-Chloro-1,3-butadiene	53	5.631	5.631	0.000	86	8465	1.00	0.9171	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 Tert-butyl ethyl ether	59	6.111	6.110	0.001	97	18758	1.00	0.9788	
S 39 1,2-Dichloroethene, Total	100				0			1.87	
40 2-Butanone (MEK)	43	6.329	6.326	0.003	99	8456	2.00	1.91	
41 cis-1,2-Dichloroethene	96	6.345	6.352	-0.007	80	5865	1.00	0.9354	
42 2,2-Dichloropropane	77	6.355	6.364	-0.009	79	8302	1.00	0.9422	
44 Propionitrile	54	6.426	6.416	0.010	97	18028	20.0	12.9	
45 Methacrylonitrile	67	6.622	6.631	-0.009	93	23057	10.0	6.66	
46 Chlorobromomethane	128	6.680	6.680	0.000	73	3014	1.00	0.9497	
47 Tetrahydrofuran	71	6.689	6.689	0.000	90	5788	5.00	4.57	
48 Chloroform	83	6.824	6.831	-0.007	94	10361	1.00	0.99	
$ 49 Dibromofluoromethane (Surr)	113	7.043	7.040	0.003	93	277984	50.0	50.1	
50 1,1,1-Trichloroethane	97	7.056	7.053	0.003	36	8410	1.00	0.9197	
51 Cyclohexane	56	7.146	7.152	-0.006	92	8745	1.00	0.8405	
52 Carbon tetrachloride	117	7.262	7.262	0.000	92	6662	1.00	0.8923	
53 1,1-Dichloropropene	75	7.268	7.268	0.000	92	7673	1.00	0.9321	
54 Isobutyl alcohol	41	7.426	7.422	0.004	87	12834	50.0	37.9	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.493	7.499	-0.006	97	68618	50.0	50.3	
56 Benzene	78	7.532	7.528	0.004	93	22379	1.00	0.9305	
57 1,2-Dichloroethane	62	7.602	7.599	0.003	96	8972	1.00	1.01	
59 Tert-amyl methyl ether	73	7.712	7.715	-0.003	98	17892	1.00	0.9652	
* 61 Fluorobenzene (IS)	96	7.927	7.930	-0.003	99	1116666	50.0	50.0	
62 n-Heptane	43	7.930	7.937	-0.007	46	8087	1.00	0.8734	
63 n-Butanol	56	8.291	8.287	0.004	90	13502	87.5	96.9	M
64 Trichloroethene	95	8.406	8.403	0.003	94	5638	1.00	0.9134	
65 Methylcyclohexane	83	8.712	8.712	0.000	91	8175	1.00	0.7782	
67 1,2-Dichloropropane	63	8.734	8.737	-0.003	72	5956	1.00	0.9205	
66 2-ethoxy-2-methyl butane	87	8.728	8.737	-0.009	90	7990	1.00	0.8845	
68 Methyl methacrylate	69	8.815	8.815	0.001	90	5008	1.00	0.8914	
69 1,4-Dioxane	88	8.818	8.818	0.000	57	2127	50.0	30.6	
70 Dibromomethane	93	8.837	8.847	-0.010	93	4064	1.00	0.9690	
72 Dichlorobromomethane	83	9.078	9.078	0.000	96	7309	1.00	0.9446	
73 2-Nitropropane	41	9.342	9.345	-0.003	98	12066	5.00	4.19	
74 2-Chloroethyl vinyl ether	63	9.429	9.429	0.000	93	4111	1.00	0.8585	
75 cis-1,3-Dichloropropene	75	9.609	9.609	0.000	92	9046	1.00	0.8960	
77 4-Methyl-2-pentanone (MIBK)	43	9.776	9.776	0.000	97	16242	2.00	1.75	
$ 78 Toluene-d8 (Surr)	98	9.908	9.908	0.000	94	1114477	50.0	50.0	
79 Toluene	92	9.982	9.982	0.000	97	13874	1.00	0.9265	
S 83 1,3-Dichloropropene, Total	100				0			1.77	
84 trans-1,3-Dichloropropene	75	10.236	10.229	0.007	96	8086	1.00	0.8726	
85 Ethyl methacrylate	69	10.284	10.287	-0.003	89	8090	1.00	0.8424	
86 1,1,2-Trichloroethane	97	10.432	10.432	0.000	91	5324	1.00	0.9325	
87 Tetrachloroethene	166	10.519	10.519	0.000	92	5557	1.00	0.9074	
88 1,3-Dichloropropane	76	10.593	10.593	0.000	93	9486	1.00	0.9722	
90 2-Hexanone	43	10.647	10.641	0.006	99	11515	2.00	1.74	
92 Chlorodibromomethane	129	10.802	10.802	0.000	80	5110	1.00	0.8511	
93 Ethylene Dibromide	107	10.914	10.914	0.000	92	5783	1.00	0.9206	
S 94 Xylenes, Total	106				0			2.69	
* 95 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	87	864201	50.0	50.0	
96 1-Chlorohexane	91	11.345	11.345	0.000	36	8494	1.00	1.02	
97 Chlorobenzene	112	11.364	11.364	0.000	94	15385	1.00	0.9392	
98 1,1,1,2-Tetrachloroethane	131	11.445	11.445	0.000	44	4973	1.00	0.8713	
99 Ethylbenzene	91	11.448	11.448	0.000	99	26181	1.00	0.8977	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 m-Xylene & p-Xylene	106	11.557	11.560	-0.003	99	19577	2.00	1.76	
101 o-Xylene	106	11.895	11.888	0.007	97	10215	1.00	0.9221	
102 Styrene	104	11.905	11.904	0.001	95	15528	1.00	0.8381	
103 Bromoform	173	12.062	12.059	0.003	94	3410	1.00	0.7749	
104 Isopropylbenzene	105	12.184	12.184	0.000	97	24107	1.00	0.8509	
106 Cyclohexanone	55	12.265	12.265	0.000	95	13249	50.0	40.7	
$ 107 4-Bromofluorobenzene (Surr)	95	12.329	12.329	0.000	89	423005	50.0	50.0	
108 1,1,2,2-Tetrachloroethane	83	12.425	12.429	-0.003	72	8989	1.00	0.9284	
109 Bromobenzene	156	12.445	12.448	-0.003	78	6732	1.00	0.9307	
110 trans-1,4-Dichloro-2-butene	53	12.454	12.451	0.003	86	18916	10.0	6.00	
111 1,2,3-Trichloropropane	110	12.477	12.474	0.003	73	2670	1.00	0.9371	
112 N-Propylbenzene	91	12.512	12.512	0.000	99	30329	1.00	0.8811	
113 2-Chlorotoluene	126	12.589	12.589	0.000	96	5924	1.00	0.8737	
114 1,3,5-Trimethylbenzene	105	12.647	12.647	0.000	94	20815	1.00	0.8496	
115 4-Chlorotoluene	126	12.683	12.683	0.000	97	6159	1.00	0.8815	
117 tert-Butylbenzene	134	12.888	12.888	0.000	94	4099	1.00	0.8590	
119 1,2,4-Trimethylbenzene	105	12.927	12.930	-0.003	97	22022	1.00	0.8716	
120 sec-Butylbenzene	105	13.049	13.049	0.000	94	24081	1.00	0.8135	
121 1,3-Dichlorobenzene	146	13.155	13.152	0.003	78	12893	1.00	0.9317	
122 4-Isopropyltoluene	119	13.155	13.155	0.000	96	21178	1.00	0.8201	
* 123 1,4-Dichlorobenzene-d4	152	13.207	13.207	0.000	96	467356	50.0	50.0	
124 1,4-Dichlorobenzene	146	13.223	13.223	0.000	93	13626	1.00	0.9635	
125 1,2,3-Trimethylbenzene	105	13.232	13.232	0.000	94	22664	1.00	0.8799	
126 Benzyl chloride	91	13.303	13.300	0.003	99	15132	1.00	0.7980	
127 1,3-Diethylbenzene	119	13.355	13.355	0.000	95	12859	1.00	0.8332	
128 p-Diethylbenzene	119	13.429	13.425	0.004	93	12761	1.00	0.8015	
129 n-Butylbenzene	92	13.448	13.448	0.000	97	10639	1.00	0.8121	
130 1,2-Dichlorobenzene	146	13.486	13.483	0.003	97	13033	1.00	0.9543	
131 o-diethylbenzene	119	13.503	13.499	0.004	95	10706	1.00	0.8306	
133 1,2-Dibromo-3-Chloropropane	75	14.023	14.023	0.000	80	2003	1.00	0.8773	
134 1,3,5-Trichlorobenzene	180	14.149	14.149	0.000	97	8989	1.00	0.8902	
135 1,2,4-Trichlorobenzene	180	14.570	14.570	0.000	92	8988	1.00	0.9116	
136 Hexachlorobutadiene	225	14.654	14.654	0.000	96	3798	1.00	0.9218	
137 Naphthalene	128	14.757	14.753	0.003	97	28463	1.00	0.8811	
138 1,2,3-Trichlorobenzene	180	14.901	14.898	0.003	96	8866	1.00	0.9325	
139 2-Methylnaphthalene	142	15.541	15.541	0.000	91	13427	1.00	0.7910	
S 145 Total Diethylbenzene	1				0			2.47	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_4ppbEE_00304	Amount Added: 12.50	Units: mL	
MSV_HP23_ISSS_00007	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 29-Nov-2021 23:40:44 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X11.D

Injection Date: 29-Nov-2021 15:48:30 Instrument ID: 9915 Operator ID: kas02648

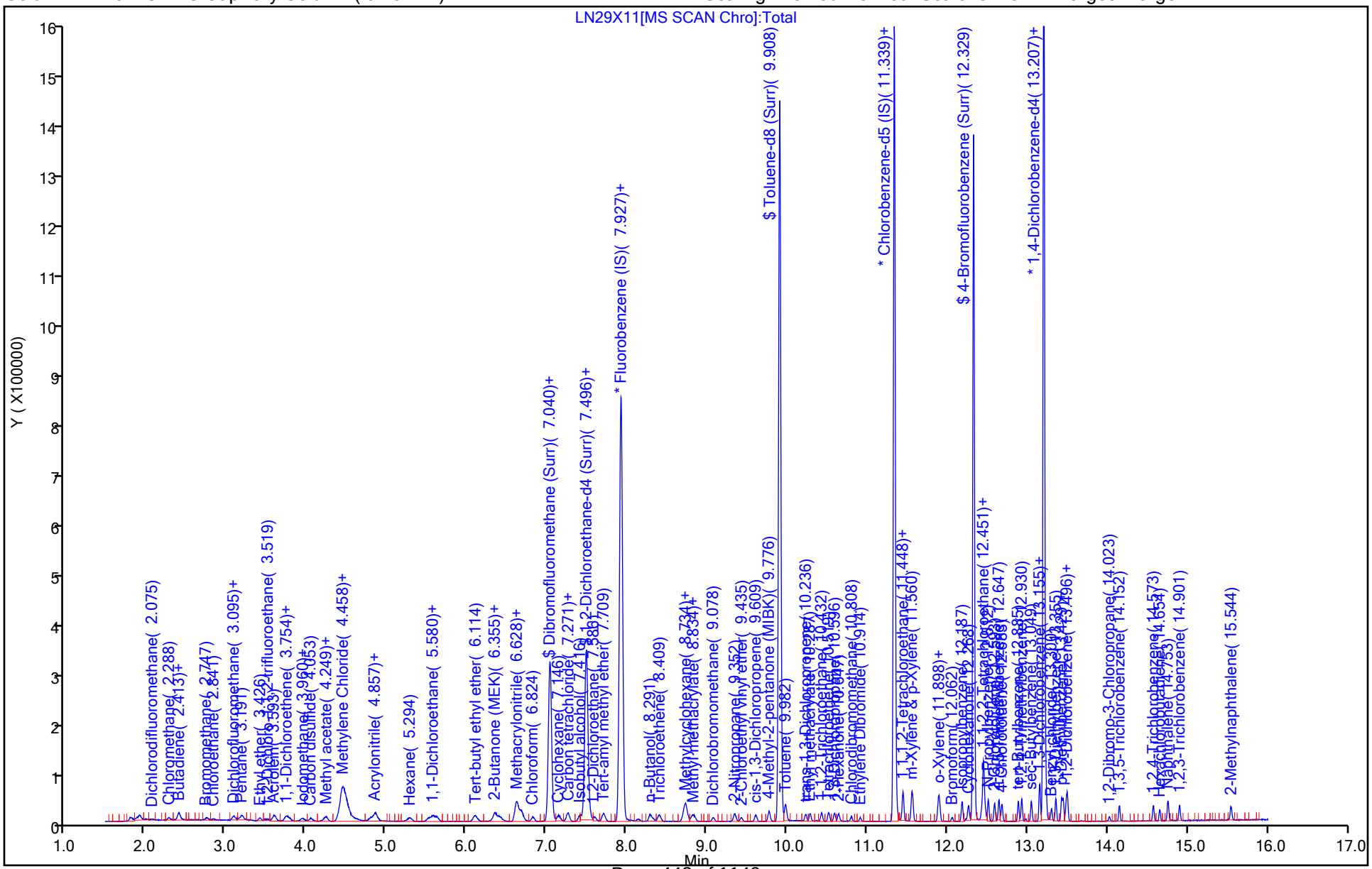
Lims ID: IC v1 Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 11

Method: MSVoa_9915a 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

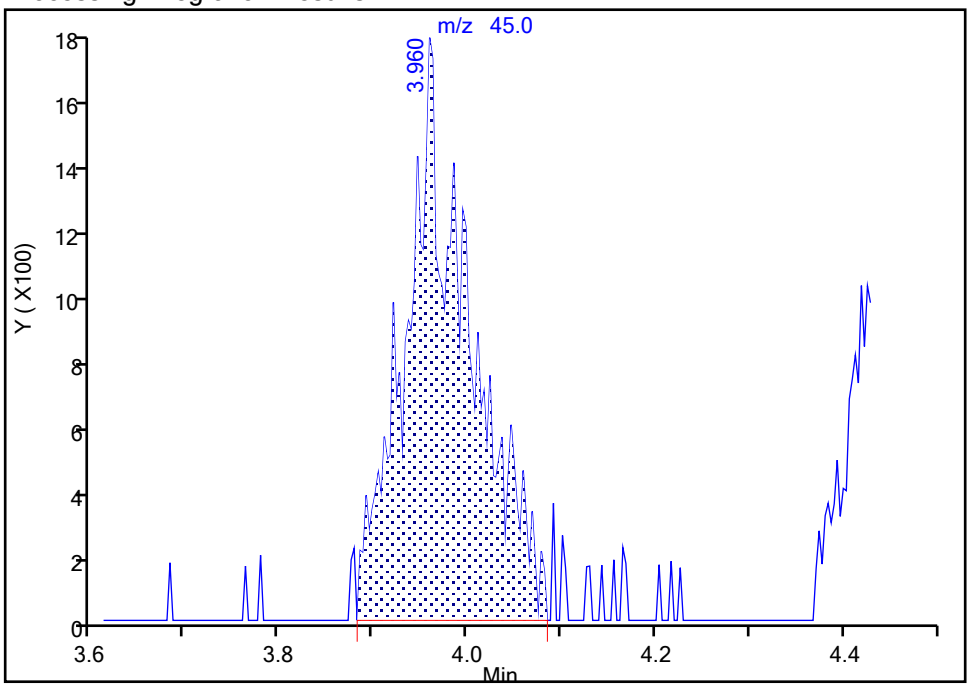
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X11.D
Injection Date: 29-Nov-2021 15:48:30 Instrument ID: 9915
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

21 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

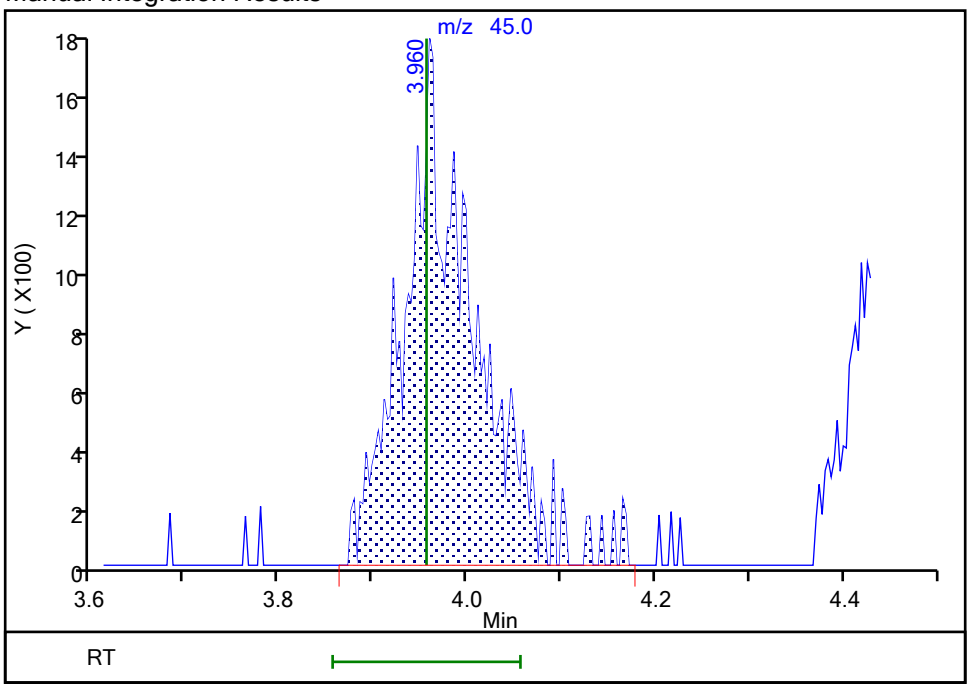
Processing Integration Results

RT: 3.96
Area: 8295
Amount: 13.707306
Amount Units: ug/l



Manual Integration Results

RT: 3.96
Area: 8729
Amount: 16.443142
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:05:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

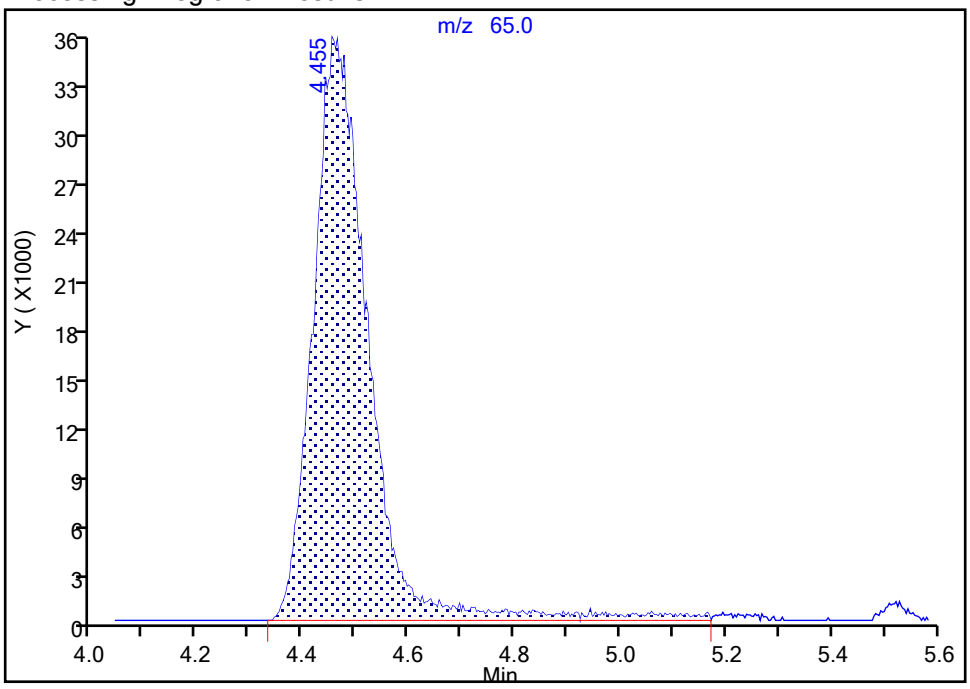
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X11.D
Injection Date: 29-Nov-2021 15:48:30 Instrument ID: 9915
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 27 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

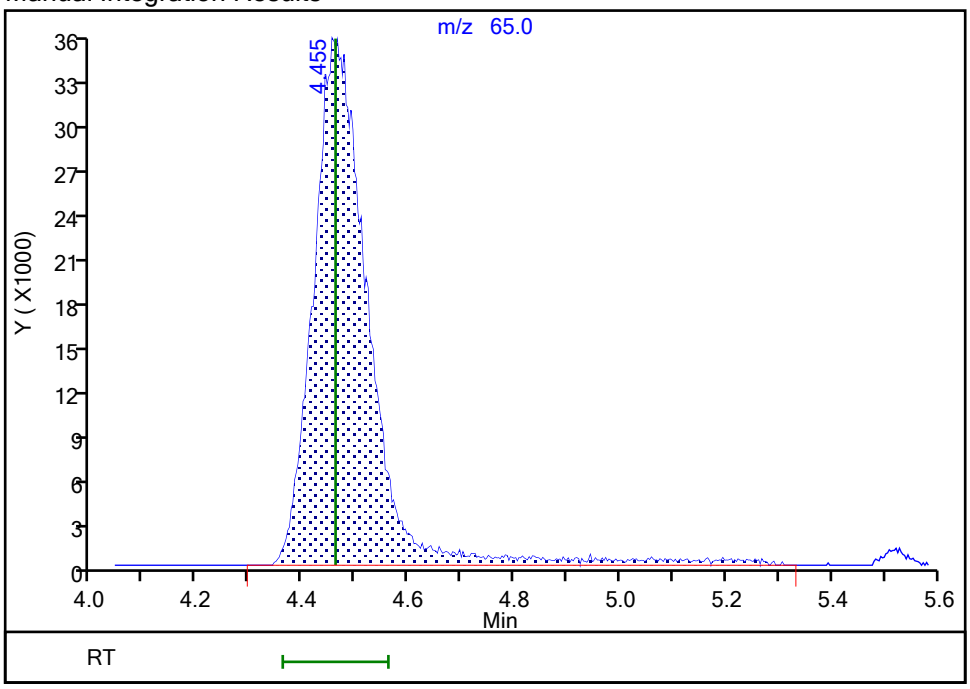
Processing Integration Results

RT: 4.45
Area: 252219
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 4.45
Area: 254211
Amount: 250.0000
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:25:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

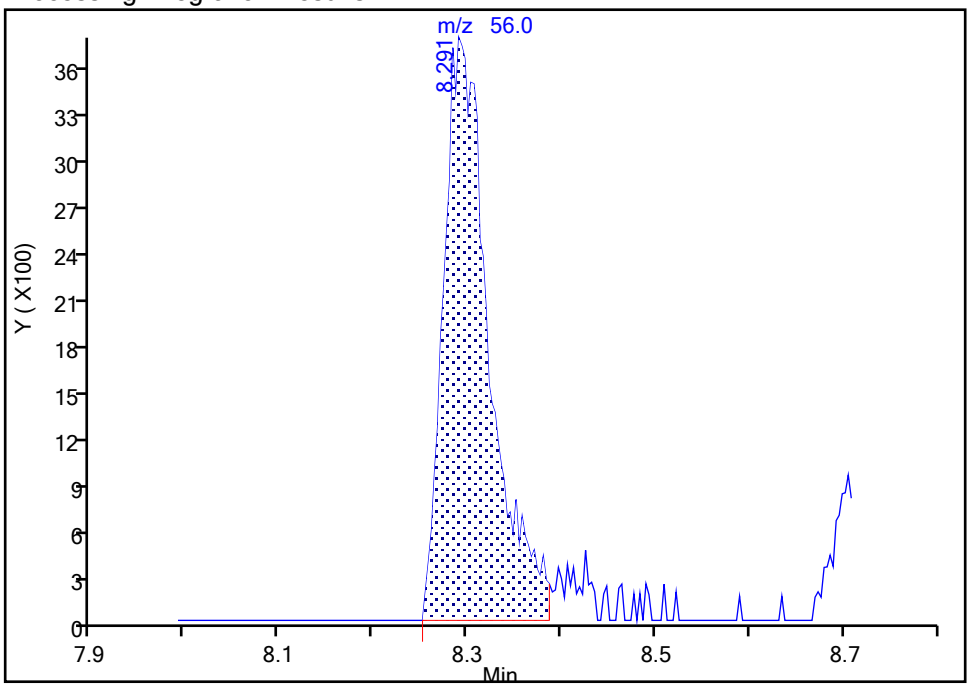
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X11.D
Injection Date: 29-Nov-2021 15:48:30 Instrument ID: 9915
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

63 n-Butanol, CAS: 71-36-3

Signal: 1

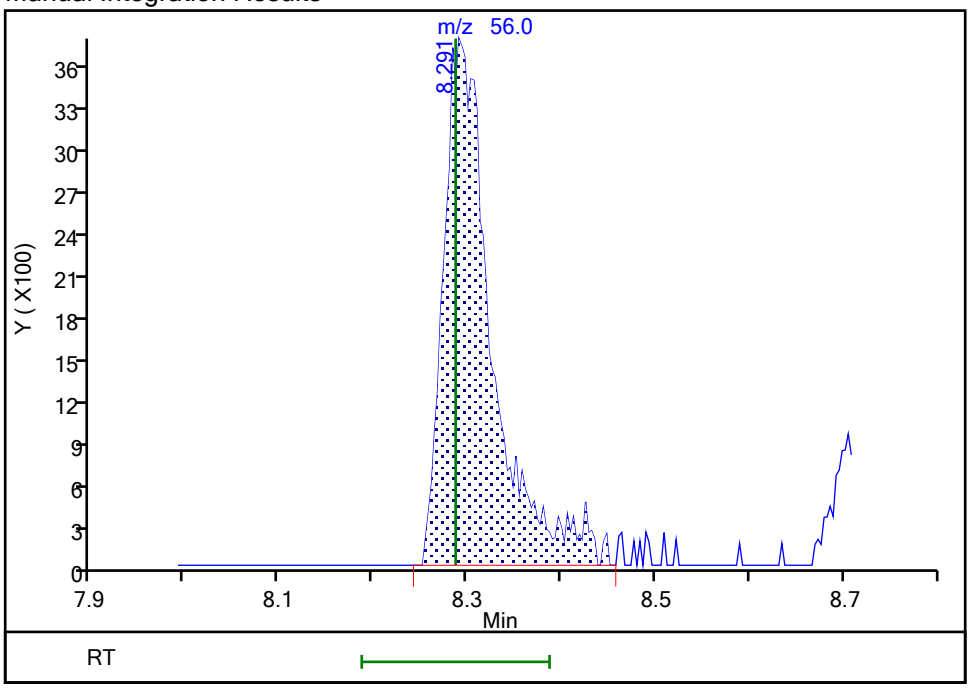
Processing Integration Results

RT: 8.29
Area: 12705
Amount: 97.971654
Amount Units: ug/l



Manual Integration Results

RT: 8.29
Area: 13502
Amount: 96.859169
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:17:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X12.D
Lims ID: IC v4
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 29-Nov-2021 16:10:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045073-012
Misc. Info.: IC
Operator ID: kas02648 Instrument ID: 9915
Sublist: chrom-MSVoa_9915a*sub45

Method: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 29-Nov-2021 23:40:47 Calib Date: 29-Nov-2021 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: campbellme Date: 29-Nov-2021 22:54:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.085	2.075	0.010	98	28109	4.00	3.82	
4 Chloromethane	50	2.291	2.284	0.007	99	34335	4.00	4.06	
5 Butadiene	39	2.410	2.403	0.007	99	36419	4.00	4.15	
6 Vinyl chloride	62	2.419	2.410	0.009	74	32223	4.00	3.82	
8 Bromomethane	94	2.770	2.757	0.013	92	21958	4.00	3.86	
9 Chloroethane	64	2.837	2.840	-0.003	98	18709	4.00	4.01	
10 Dichlorofluoromethane	67	3.095	3.091	0.004	97	44393	4.00	3.95	
11 Trichlorofluoromethane	101	3.168	3.165	0.003	96	39913	4.00	3.96	M
12 Pentane	43	3.204	3.197	0.007	97	40865	4.00	3.88	
14 Ethyl ether	59	3.432	3.419	0.013	93	22229	4.00	3.97	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.525	3.509	0.016	94	28811	4.00	4.02	
16 Acrolein	56	3.603	3.599	0.004	99	75562	40.1	37.0	
17 1,1-Dichloroethene	96	3.754	3.744	0.010	97	21285	4.00	4.03	
18 Acetone	58	3.767	3.779	-0.012	95	6461	8.00	7.53	
19 112TCTFE	101	3.783	3.786	-0.003	89	20236	4.00	3.92	
20 Iodomethane	142	3.953	3.950	0.003	98	36585	4.00	4.00	M
21 Isopropyl alcohol	45	3.982	3.956	0.026	96	30266	80.0	59.1	M
22 Carbon disulfide	76	4.069	4.053	0.016	99	62934	4.00	3.86	
24 Methyl acetate	43	4.226	4.220	0.006	99	27294	4.00	3.87	
25 3-Chloro-1-propene	41	4.255	4.249	0.006	89	39098	4.00	3.95	
26 Methylene Chloride	84	4.455	4.445	0.010	95	24778	4.00	4.00	
* 27 t-Butyl alcohol-d10 (IS)	65	4.467	4.461	0.006	73	245258	250.0	250.0	M
28 2-Methyl-2-propanol	59	4.593	4.602	-0.009	98	55254	80.0	58.8	
29 Acrylonitrile	53	4.802	4.795	0.007	99	34407	10.0	9.81	
31 Methyl tert-butyl ether	73	4.853	4.860	-0.007	98	76024	4.00	3.92	
32 trans-1,2-Dichloroethene	96	4.869	4.863	0.006	96	24363	4.00	4.03	
33 Hexane	57	5.307	5.287	0.020	93	33662	4.00	3.79	
35 1,1-Dichloroethane	63	5.529	5.528	0.001	96	44954	4.00	4.04	
36 Isopropyl ether	45	5.580	5.583	-0.003	93	80201	4.00	3.90	
37 2-Chloro-1,3-butadiene	53	5.638	5.631	0.007	94	37912	4.00	3.93	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 Tert-butyl ethyl ether	59	6.114	6.110	0.004	98	80045	4.00	3.99	
S 39 1,2-Dichloroethene, Total	100				0			7.98	
40 2-Butanone (MEK)	43	6.323	6.326	-0.003	96	33221	8.00	7.16	
41 cis-1,2-Dichloroethene	96	6.348	6.352	-0.004	83	25874	4.00	3.95	
42 2,2-Dichloropropane	77	6.361	6.364	-0.003	86	36848	4.00	4.00	
44 Propionitrile	54	6.422	6.416	0.006	99	73422	80.0	54.3	M
45 Methacrylonitrile	67	6.631	6.631	0.000	92	98950	40.0	27.3	
46 Chlorobromomethane	128	6.686	6.680	0.006	89	13410	4.00	4.04	
47 Tetrahydrofuran	71	6.689	6.689	0.000	87	23941	20.0	19.6	
48 Chloroform	83	6.824	6.831	-0.007	94	42858	4.00	3.93	
$ 49 Dibromofluoromethane (Surr)	113	7.043	7.040	0.003	93	292050	50.0	50.3	
50 1,1,1-Trichloroethane	97	7.059	7.053	0.006	98	38258	4.00	4.00	
51 Cyclohexane	56	7.155	7.152	0.003	94	41556	4.00	3.82	
52 Carbon tetrachloride	117	7.271	7.262	0.009	87	30395	4.00	3.89	
53 1,1-Dichloropropene	75	7.271	7.268	0.003	91	33762	4.00	3.92	
54 Isobutyl alcohol	41	7.422	7.422	0.000	91	45916	200.0	140.4	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.503	7.499	0.004	98	72384	50.0	50.8	
56 Benzene	78	7.532	7.528	0.004	94	99521	4.00	3.96	
57 1,2-Dichloroethane	62	7.602	7.599	0.003	97	37422	4.00	4.02	
59 Tert-amyl methyl ether	73	7.715	7.715	0.000	97	75969	4.00	3.92	
* 61 Fluorobenzene (IS)	96	7.930	7.930	0.000	98	1167492	50.0	50.0	
62 n-Heptane	43	7.940	7.937	0.003	38	35481	4.00	3.67	
63 n-Butanol	56	8.294	8.287	0.007	93	56949	350.0	246.0	M
64 Trichloroethene	95	8.403	8.403	0.000	89	25377	4.00	3.93	
65 Methylcyclohexane	83	8.712	8.712	0.000	92	41297	4.00	3.76	
67 1,2-Dichloropropane	63	8.737	8.737	0.000	69	26664	4.00	3.94	
66 2-ethoxy-2-methyl butane	87	8.737	8.737	0.000	91	35908	4.00	3.80	
68 Methyl methacrylate	69	8.818	8.815	0.004	93	22475	4.00	3.83	
69 1,4-Dioxane	88	8.818	8.818	0.000	38	9205	200.0	137.1	M
70 Dibromomethane	93	8.850	8.847	0.003	95	16614	4.00	3.79	
72 Dichlorobromomethane	83	9.081	9.078	0.003	98	30438	4.00	3.76	
73 2-Nitropropane	41	9.348	9.345	0.003	99	49514	20.0	17.8	
74 2-Chloroethyl vinyl ether	63	9.429	9.429	0.000	93	18320	4.00	3.66	
75 cis-1,3-Dichloropropene	75	9.612	9.609	0.003	93	38570	4.00	3.65	
77 4-Methyl-2-pentanone (MIBK)	43	9.776	9.776	0.000	97	69305	8.00	7.14	
$ 78 Toluene-d8 (Surr)	98	9.908	9.908	0.000	94	1181117	50.0	50.2	
79 Toluene	92	9.985	9.982	0.003	98	62968	4.00	3.98	
S 83 1,3-Dichloropropene, Total	100				0			7.35	
84 trans-1,3-Dichloropropene	75	10.229	10.229	0.000	96	36189	4.00	3.70	
85 Ethyl methacrylate	69	10.290	10.287	0.003	91	37039	4.00	3.65	
86 1,1,2-Trichloroethane	97	10.432	10.432	0.000	93	23500	4.00	3.90	
87 Tetrachloroethene	166	10.522	10.519	0.003	96	26365	4.00	4.08	
88 1,3-Dichloropropane	76	10.596	10.593	0.003	95	39855	4.00	3.87	
90 2-Hexanone	43	10.644	10.641	0.003	97	48921	8.00	7.01	
92 Chlorodibromomethane	129	10.802	10.802	0.000	91	23257	4.00	3.67	
93 Ethylene Dibromide	107	10.917	10.914	0.003	99	25168	4.00	3.80	
S 94 Xylenes, Total	106				0			11.8	
* 95 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	87	911977	50.0	50.0	
96 1-Chlorohexane	91	11.345	11.345	0.000	90	33837	4.00	3.87	
97 Chlorobenzene	112	11.364	11.364	0.000	95	68249	4.00	3.95	
98 1,1,1,2-Tetrachloroethane	131	11.445	11.445	0.000	94	22779	4.00	3.78	
99 Ethylbenzene	91	11.448	11.448	0.000	99	121423	4.00	3.95	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 m-Xylene & p-Xylene	106	11.564	11.560	0.004	99	93460	8.00	7.98	
101 o-Xylene	106	11.888	11.888	0.000	97	45207	4.00	3.87	
102 Styrene	104	11.904	11.904	0.000	95	76219	4.00	3.90	
103 Bromoform	173	12.062	12.059	0.003	96	16241	4.00	3.50	
104 Isopropylbenzene	105	12.187	12.184	0.003	96	118287	4.00	3.96	
106 Cyclohexanone	55	12.261	12.265	-0.004	95	56849	200.0	180.9	
$ 107 4-Bromofluorobenzene (Surr)	95	12.329	12.329	0.000	89	447443	50.0	50.1	
108 1,1,2,2-Tetrachloroethane	83	12.429	12.429	0.001	94	38427	4.00	3.76	
109 Bromobenzene	156	12.448	12.448	0.000	96	29703	4.00	3.89	
110 trans-1,4-Dichloro-2-butene	53	12.451	12.451	0.000	93	84742	40.0	25.5	
111 1,2,3-Trichloropropane	110	12.477	12.474	0.003	85	11903	4.00	3.96	
112 N-Propylbenzene	91	12.512	12.512	0.000	99	142479	4.00	3.92	
113 2-Chlorotoluene	126	12.589	12.589	0.000	96	27946	4.00	3.91	
114 1,3,5-Trimethylbenzene	105	12.647	12.647	0.000	94	99384	4.00	3.84	
115 4-Chlorotoluene	126	12.683	12.683	0.000	98	28782	4.00	3.90	
117 tert-Butylbenzene	134	12.885	12.888	-0.003	94	18585	4.00	3.69	
119 1,2,4-Trimethylbenzene	105	12.930	12.930	0.000	98	103079	4.00	3.87	
120 sec-Butylbenzene	105	13.052	13.049	0.003	94	120441	4.00	3.86	
121 1,3-Dichlorobenzene	146	13.152	13.152	0.000	98	58135	4.00	3.98	
122 4-Isopropyltoluene	119	13.155	13.155	0.000	97	104322	4.00	3.83	
* 123 1,4-Dichlorobenzene-d4	152	13.207	13.207	0.000	96	493175	50.0	50.0	
124 1,4-Dichlorobenzene	146	13.226	13.223	0.003	95	58603	4.00	3.93	
125 1,2,3-Trimethylbenzene	105	13.236	13.232	0.004	99	106307	4.00	3.91	
126 Benzyl chloride	91	13.300	13.300	0.000	99	71158	4.00	3.56	
127 1,3-Diethylbenzene	119	13.355	13.355	0.000	96	62770	4.00	3.85	
128 p-Diethylbenzene	119	13.429	13.425	0.004	93	65159	4.00	3.88	
129 n-Butylbenzene	92	13.445	13.448	-0.003	98	52374	4.00	3.79	
130 1,2-Dichlorobenzene	146	13.483	13.483	0.000	97	57278	4.00	3.97	
131 o-diethylbenzene	119	13.502	13.499	0.003	96	52344	4.00	3.85	
133 1,2-Dibromo-3-Chloropropane	75	14.023	14.023	0.000	81	9100	4.00	3.78	
134 1,3,5-Trichlorobenzene	180	14.152	14.149	0.003	97	41371	4.00	3.88	
135 1,2,4-Trichlorobenzene	180	14.573	14.570	0.003	94	39744	4.00	3.82	
136 Hexachlorobutadiene	225	14.650	14.654	-0.004	98	15955	4.00	3.67	
137 Naphthalene	128	14.753	14.753	0.000	97	131173	4.00	3.85	
138 1,2,3-Trichlorobenzene	180	14.901	14.898	0.003	96	39080	4.00	3.90	
139 2-Methylnaphthalene	142	15.541	15.541	0.000	92	64484	4.00	3.60	
S 145 Total Diethylbenzene	1				0			11.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00039	Amount Added:	4.00	Units: uL	
MSV_VCYC_00007	Amount Added:	32.00	Units: uL	
MSV_CCV_GASES_00111	Amount Added:	2.00	Units: uL	
MSV_CCV_VOC#3_00038	Amount Added:	3.20	Units: uL	
MSV_V_VOA2_00116	Amount Added:	12.00	Units: uL	
MSV_CCV_2CEVE_00036	Amount Added:	4.00	Units: uL	
MSV_V_EE_00006	Amount Added:	4.00	Units: uL	
MSV_HP23_ISSS_00007	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 29-Nov-2021 23:40:48 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X12.D

Injection Date: 29-Nov-2021 16:10:30 Instrument ID: 9915 Operator ID: kas02648

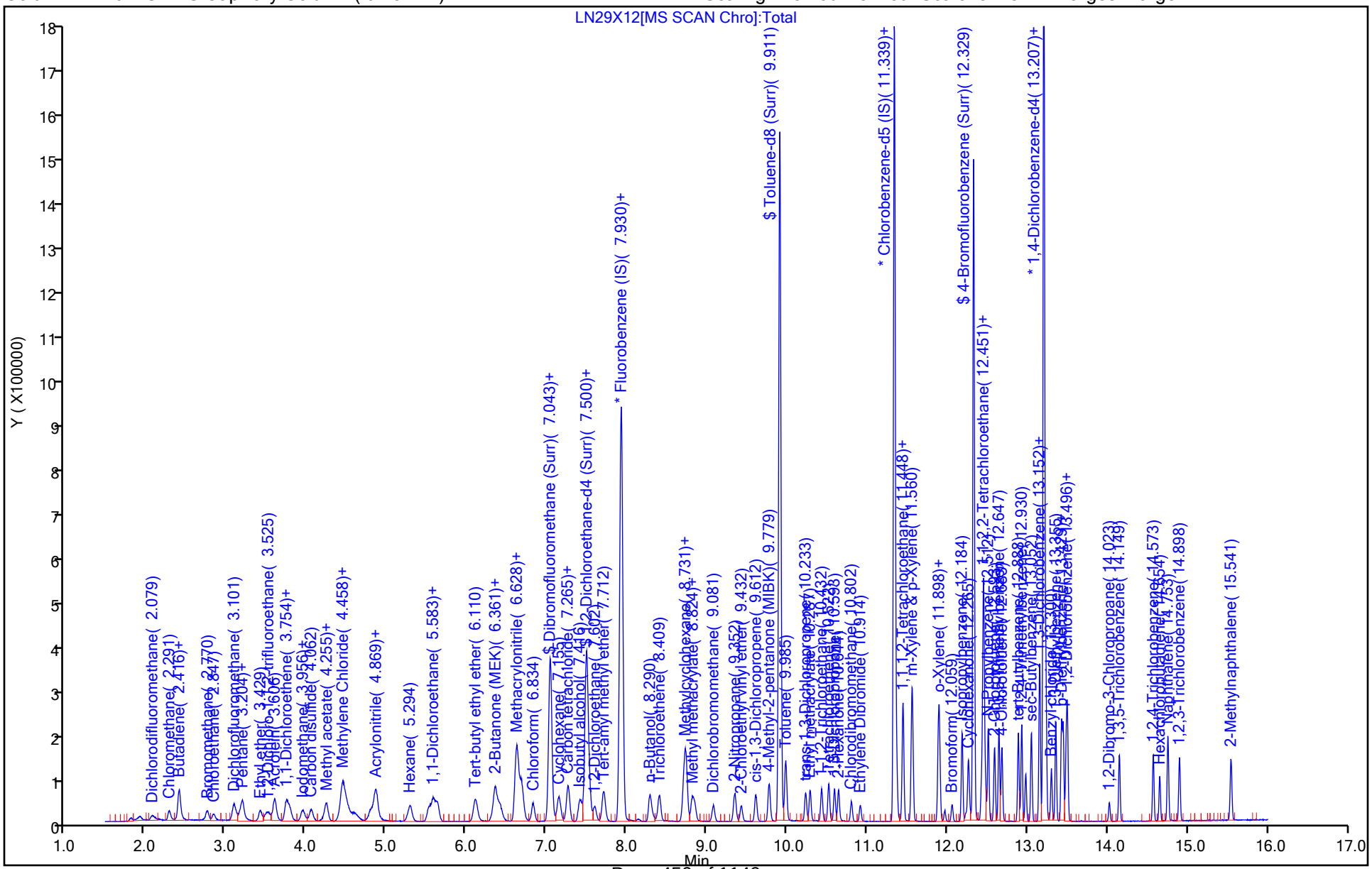
Lims ID: IC v4 Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: MSVoa_9915a 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

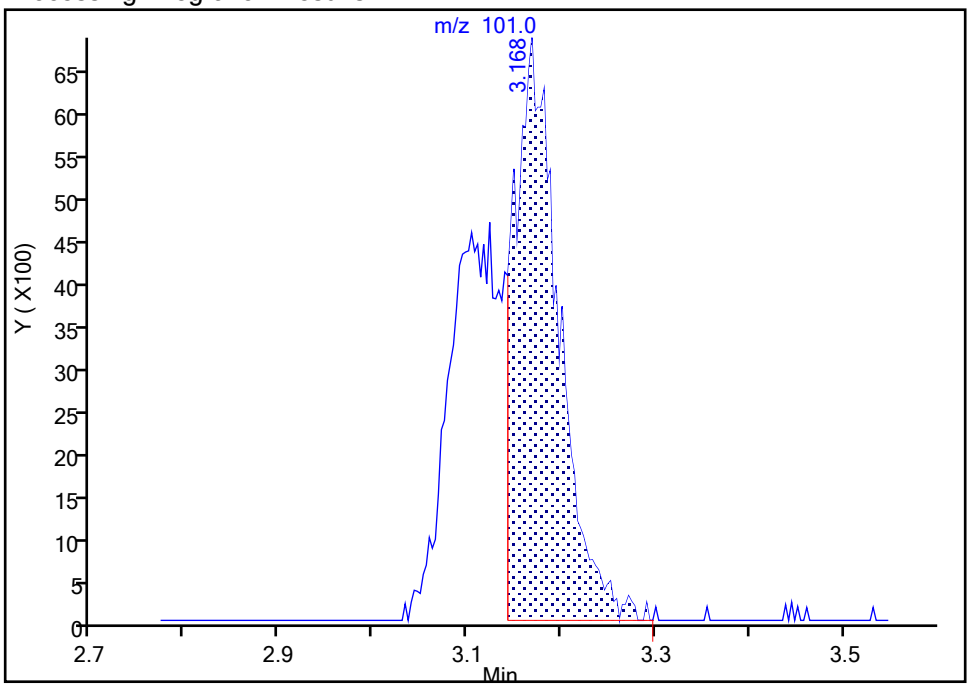
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X12.D
Injection Date: 29-Nov-2021 16:10:30 Instrument ID: 9915
Lims ID: IC v4
Client ID:
Operator ID: kas02648 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

11 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

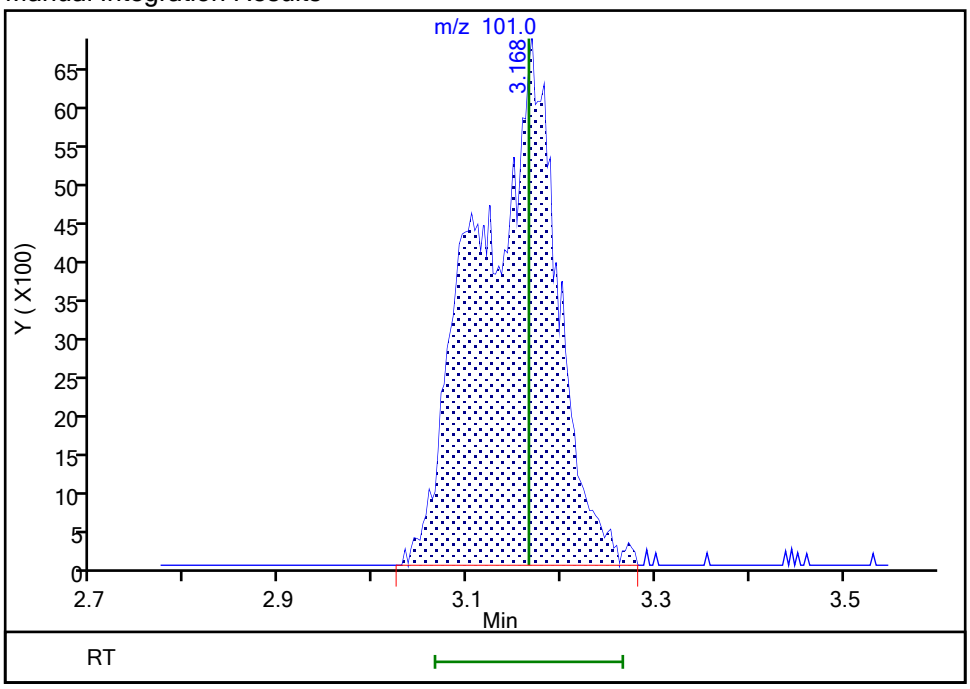
Processing Integration Results

RT: 3.17
Area: 22394
Amount: 3.020927
Amount Units: ug/l



Manual Integration Results

RT: 3.17
Area: 39913
Amount: 3.962947
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 22:53:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

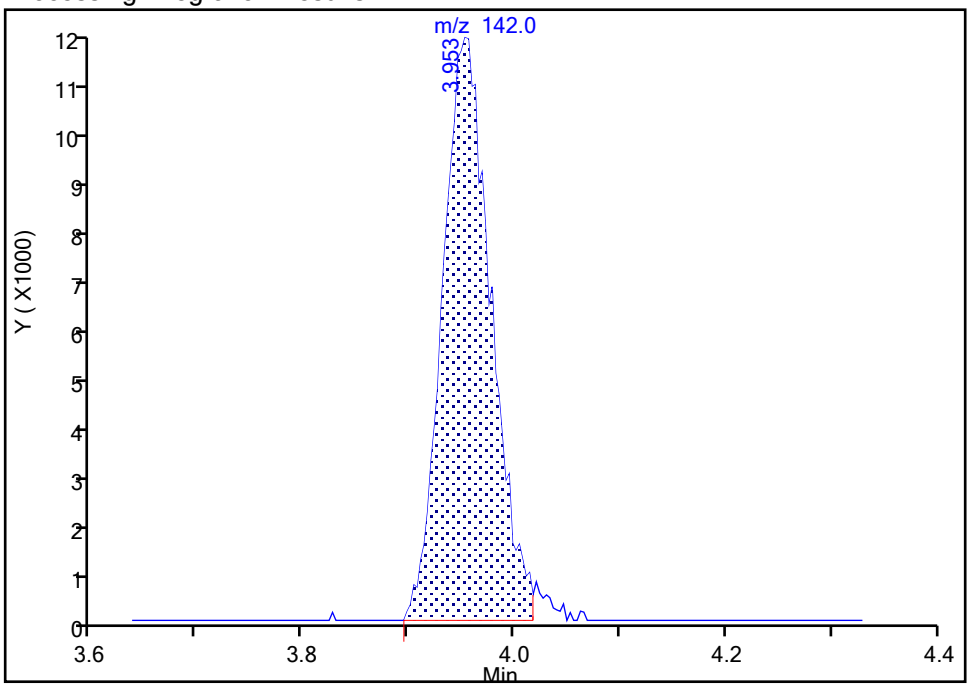
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X12.D
Injection Date: 29-Nov-2021 16:10:30 Instrument ID: 9915
Lims ID: IC v4
Client ID:
Operator ID: kas02648 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

20 Iodomethane, CAS: 74-88-4

Signal: 1

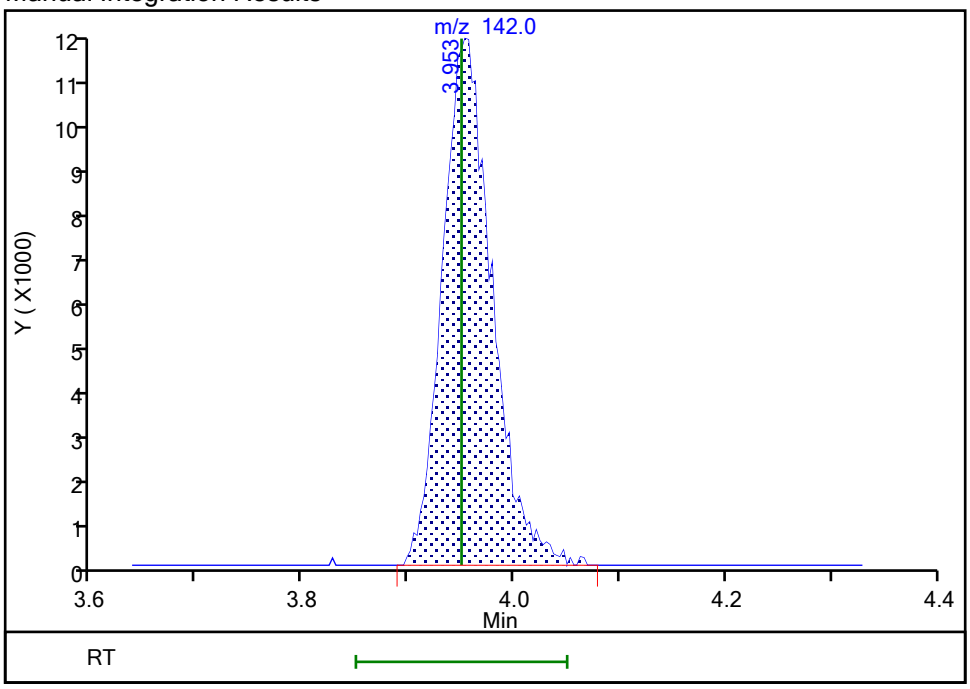
Processing Integration Results

RT: 3.95
Area: 35805
Amount: 3.927080
Amount Units: ug/l



Manual Integration Results

RT: 3.95
Area: 36585
Amount: 4.002920
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 22:53:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

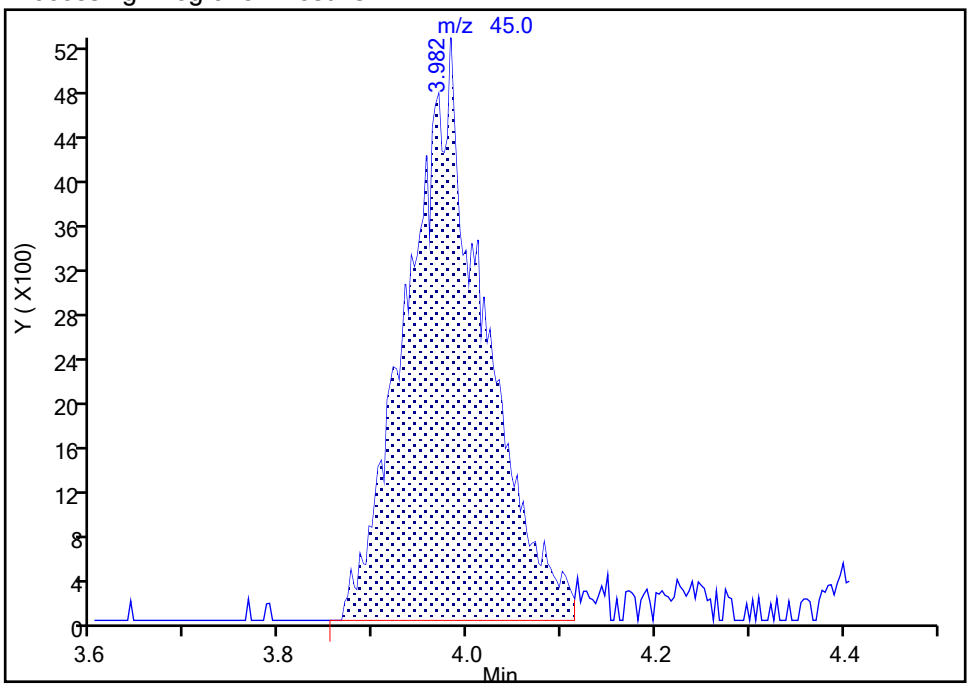
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X12.D
Injection Date: 29-Nov-2021 16:10:30 Instrument ID: 9915
Lims ID: IC v4
Client ID:
Operator ID: kas02648 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

21 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

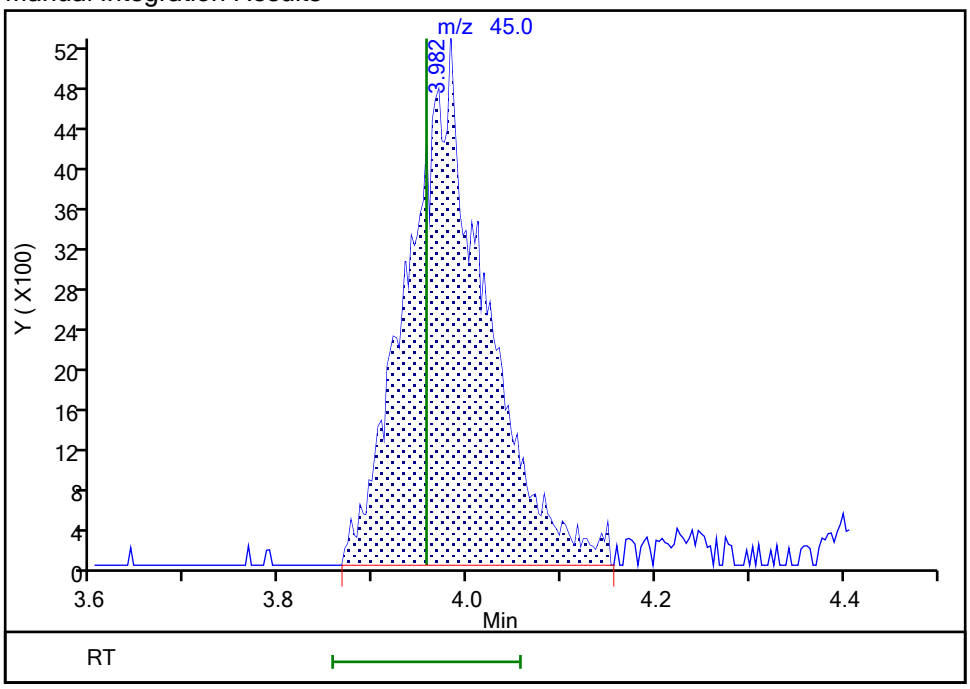
Processing Integration Results

RT: 3.98
Area: 29724
Amount: 51.609615
Amount Units: ug/l



Manual Integration Results

RT: 3.98
Area: 30266
Amount: 59.094422
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:04:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

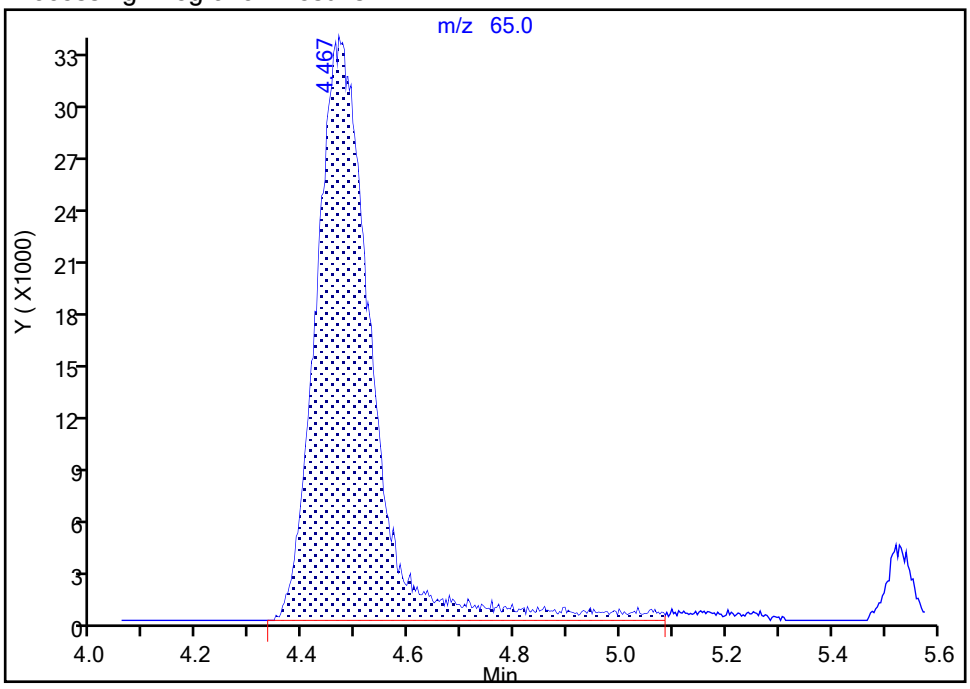
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X12.D
Injection Date: 29-Nov-2021 16:10:30 Instrument ID: 9915
Lims ID: IC v4
Client ID:
Operator ID: kas02648 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 27 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

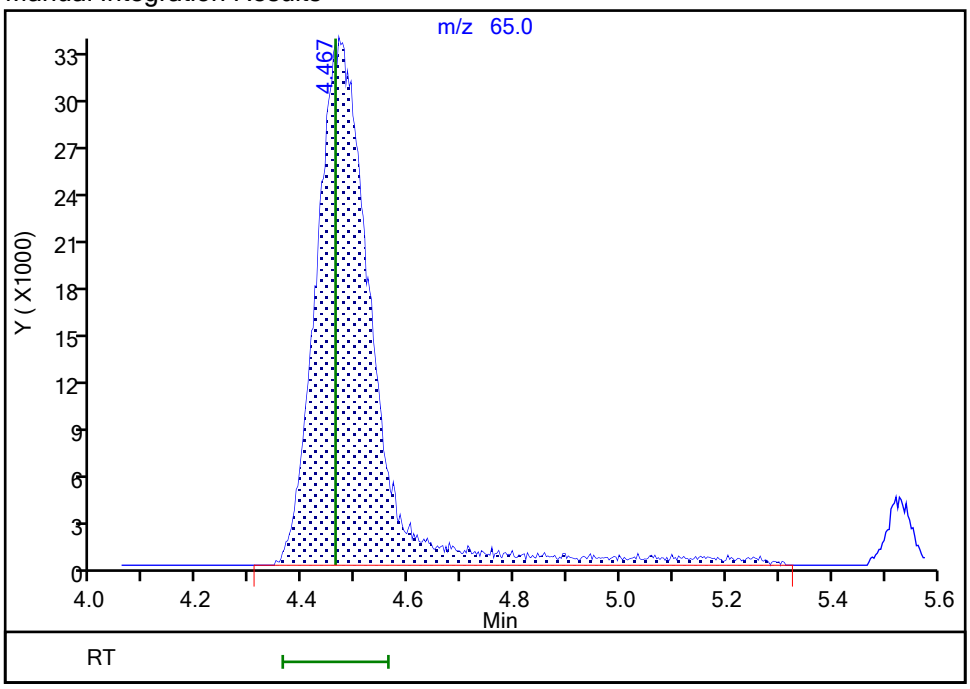
Processing Integration Results

RT: 4.47
Area: 240447
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 4.47
Area: 245258
Amount: 250.0000
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:25:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

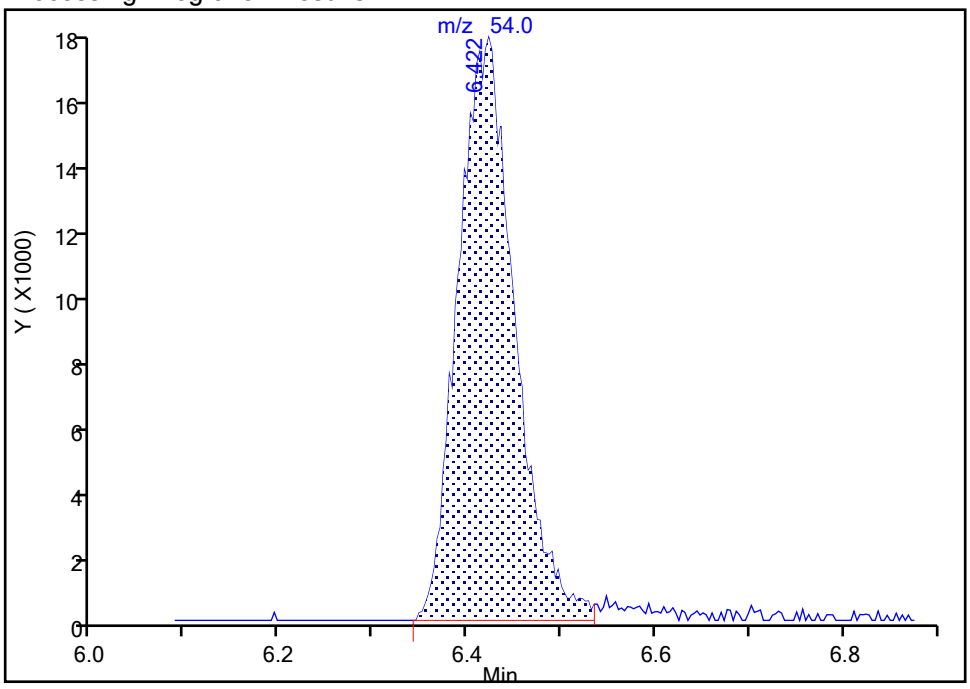
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X12.D
Injection Date: 29-Nov-2021 16:10:30 Instrument ID: 9915
Lims ID: IC v4
Client ID:
Operator ID: kas02648 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

44 Propionitrile, CAS: 107-12-0

Signal: 1

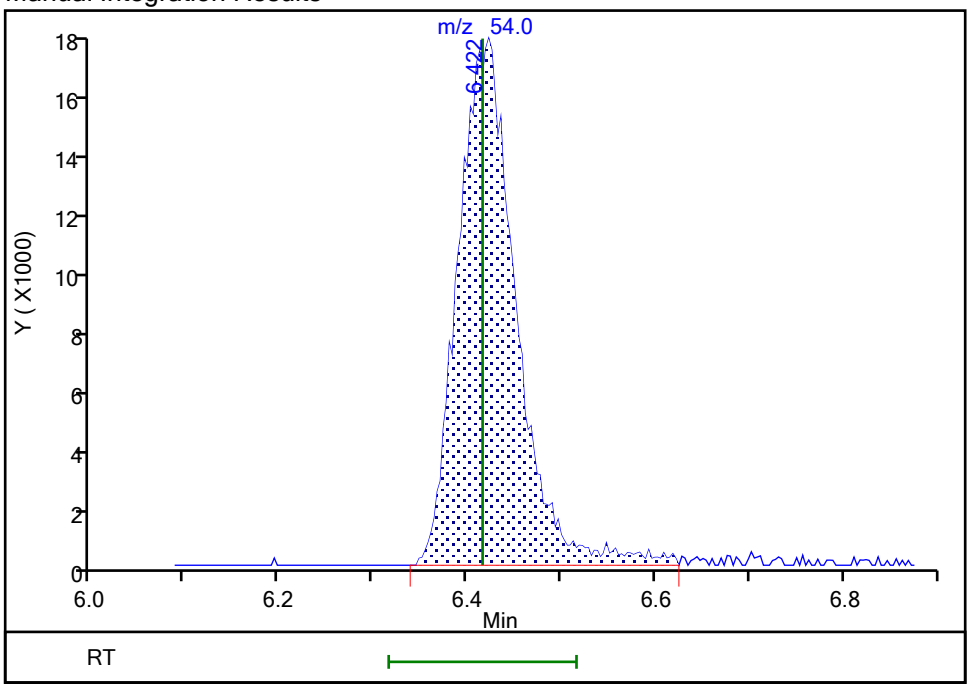
Processing Integration Results

RT: 6.42
Area: 71594
Amount: 59.425533
Amount Units: ug/l



Manual Integration Results

RT: 6.42
Area: 73422
Amount: 54.263426
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:10:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

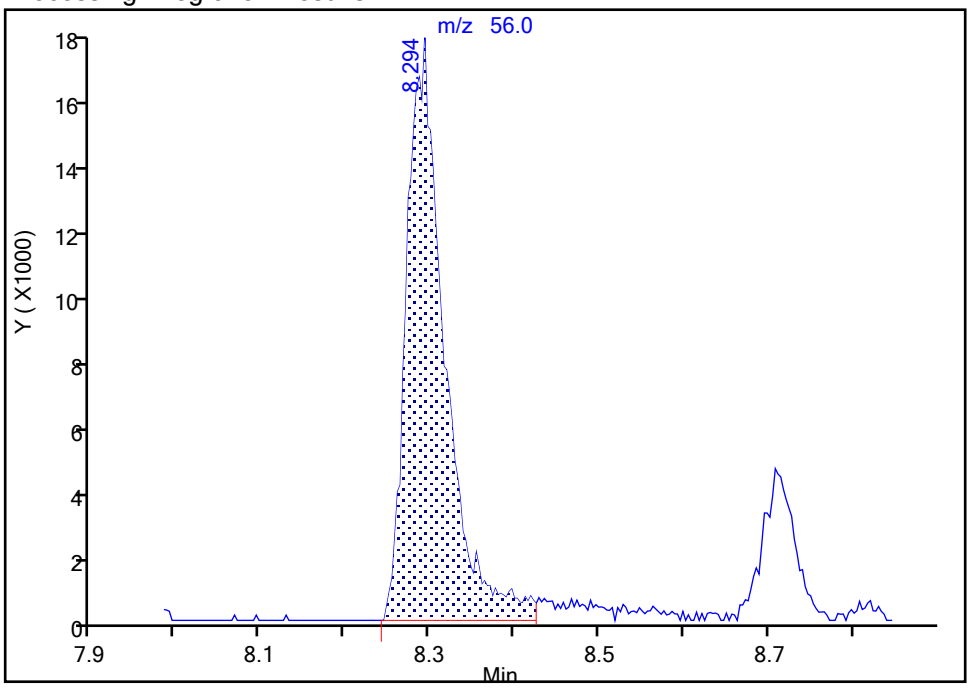
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X12.D
Injection Date: 29-Nov-2021 16:10:30 Instrument ID: 9915
Lims ID: IC v4
Client ID:
Operator ID: kas02648 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

63 n-Butanol, CAS: 71-36-3

Signal: 1

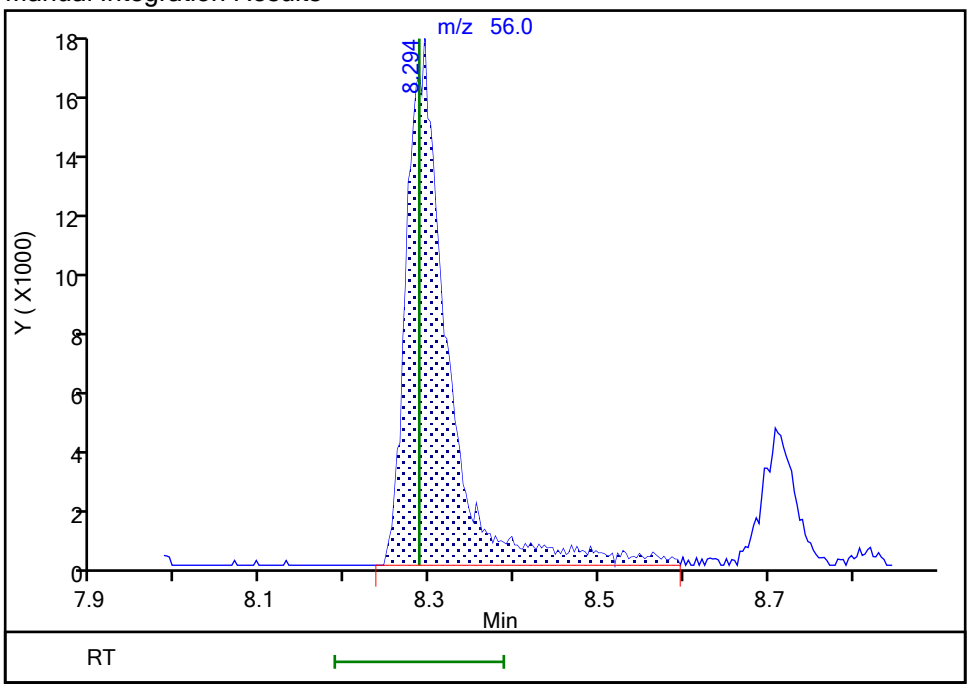
Processing Integration Results

RT: 8.29
Area: 53272
Amount: 226.2667
Amount Units: ug/l



Manual Integration Results

RT: 8.29
Area: 56949
Amount: 246.0125
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:16:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

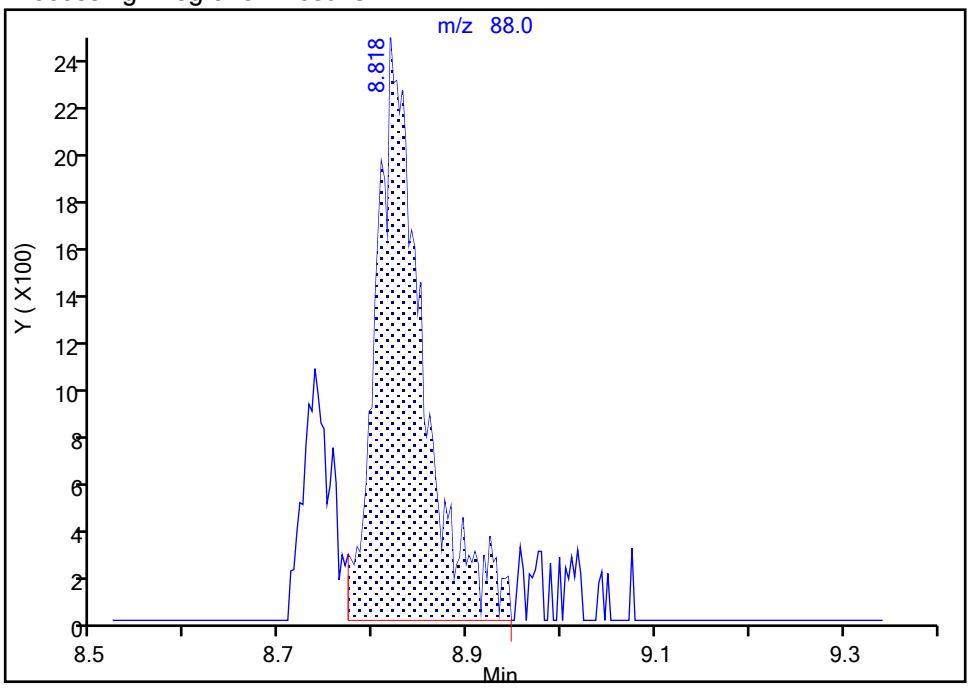
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X12.D
Injection Date: 29-Nov-2021 16:10:30 Instrument ID: 9915
Lims ID: IC v4
Client ID:
Operator ID: kas02648 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

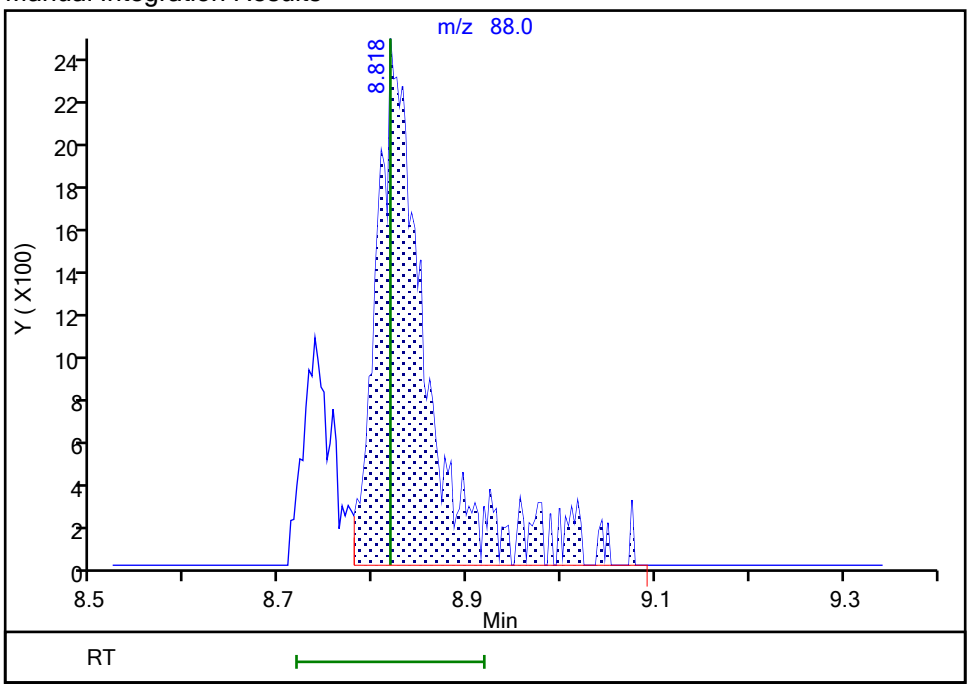
Processing Integration Results

RT: 8.82
Area: 8423
Amount: 121.0914
Amount Units: ug/l



Manual Integration Results

RT: 8.82
Area: 9205
Amount: 137.0728
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 22:54:01
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Report Date: 29-Nov-2021 23:40:52 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X13.D
Lims ID: IC v10
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 29-Nov-2021 16:32:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045073-013
Misc. Info.: ICIS
Operator ID: kas02648 Instrument ID: 9915
Sublist: chrom-MSVoa_9915a*sub45

Method: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 29-Nov-2021 23:40:52 Calib Date: 29-Nov-2021 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: campbellme Date: 29-Nov-2021 22:57:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.082	2.075	0.007	99	74521	10.0	10.7	
4 Chloromethane	50	2.287	2.284	0.003	99	82254	10.0	10.3	
5 Butadiene	39	2.416	2.403	0.013	95	85967	10.0	10.4	
6 Vinyl chloride	62	2.413	2.410	0.003	92	83280	10.0	10.4	
8 Bromomethane	94	2.770	2.757	0.013	90	56426	10.0	10.5	
9 Chloroethane	64	2.847	2.840	0.007	99	45721	10.0	10.4	
10 Dichlorofluoromethane	67	3.101	3.091	0.010	97	110514	10.0	10.4	
11 Trichlorofluoromethane	101	3.175	3.165	0.010	96	100866	10.0	10.6	M
12 Pentane	43	3.210	3.197	0.013	98	97652	10.0	9.80	
14 Ethyl ether	59	3.432	3.419	0.013	94	50792	10.0	9.59	M
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.516	3.509	0.007	91	70593	10.0	10.4	
16 Acrolein	56	3.612	3.599	0.013	99	189976	100.2	100.4	
17 1,1-Dichloroethene	96	3.750	3.744	0.006	98	49611	10.0	9.94	
18 Acetone	58	3.786	3.779	0.007	100	16511	20.0	20.8	
19 112TCTFE	101	3.799	3.786	0.013	89	48585	10.0	9.96	
20 Iodomethane	142	3.959	3.950	0.009	99	86835	10.0	10.0	
21 Isopropyl alcohol	45	3.963	3.956	0.007	99	50206	100.0	105.9	M
22 Carbon disulfide	76	4.065	4.053	0.012	100	149820	10.0	9.73	
24 Methyl acetate	43	4.229	4.220	0.009	97	66356	10.0	9.94	
25 3-Chloro-1-propene	41	4.258	4.249	0.009	89	93051	10.0	9.93	
26 Methylene Chloride	84	4.454	4.445	0.009	97	58864	10.0	10.0	
* 27 t-Butyl alcohol-d10 (IS)	65	4.474	4.461	0.013	66	226940	250.0	250.0	M
28 2-Methyl-2-propanol	59	4.606	4.602	0.004	96	95119	100.0	109.3	
29 Acrylonitrile	53	4.799	4.795	0.003	97	81260	25.0	24.5	
31 Methyl tert-butyl ether	73	4.856	4.860	-0.004	95	184467	10.0	10.1	
32 trans-1,2-Dichloroethene	96	4.872	4.863	0.009	96	56954	10.0	9.97	
33 Hexane	57	5.303	5.287	0.016	95	84368	10.0	10.1	
35 1,1-Dichloroethane	63	5.532	5.528	0.004	96	104286	10.0	9.92	
36 Isopropyl ether	45	5.586	5.583	0.003	94	193359	10.0	9.94	
37 2-Chloro-1,3-butadiene	53	5.641	5.631	0.010	89	90137	10.0	9.88	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 Tert-butyl ethyl ether	59	6.117	6.110	0.007	98	189942	10.0	10.0	
S 39 1,2-Dichloroethene, Total	100				0			20.0	
40 2-Butanone (MEK)	43	6.326	6.326	0.000	100	88311	20.0	20.1	
41 cis-1,2-Dichloroethene	96	6.358	6.352	0.006	83	62311	10.0	10.1	
42 2,2-Dichloropropane	77	6.371	6.364	0.007	88	87487	10.0	10.0	
44 Propionitrile	54	6.416	6.416	0.000	99	133340	100.0	106.5	M
45 Methacrylonitrile	67	6.631	6.631	0.000	94	177111	50.0	51.7	
46 Chlorobromomethane	128	6.686	6.680	0.006	93	32079	10.0	10.2	
47 Tetrahydrofuran	71	6.696	6.689	0.007	89	56747	50.0	50.1	
48 Chloroform	83	6.834	6.831	0.003	94	102973	10.0	9.98	
$ 49 Dibromofluoromethane (Surr)	113	7.046	7.040	0.006	93	274318	50.0	50.0	
50 1,1,1-Trichloroethane	97	7.062	7.053	0.009	99	90493	10.0	10.0	
51 Cyclohexane	56	7.152	7.152	0.000	93	102678	10.0	9.98	
52 Carbon tetrachloride	117	7.265	7.262	0.003	95	72786	10.0	9.86	
53 1,1-Dichloropropene	75	7.271	7.268	0.003	92	80832	10.0	9.93	
54 Isobutyl alcohol	41	7.416	7.422	-0.006	95	81816	250.0	270.4	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.493	7.499	-0.006	98	66776	50.0	49.5	
56 Benzene	78	7.532	7.528	0.004	96	241571	10.0	10.2	
57 1,2-Dichloroethane	62	7.602	7.599	0.003	97	89460	10.0	10.2	
59 Tert-amyl methyl ether	73	7.715	7.715	0.000	98	186337	10.0	10.2	
* 61 Fluorobenzene (IS)	96	7.930	7.930	0.000	99	1104004	50.0	50.0	
62 n-Heptane	43	7.937	7.937	0.000	93	94512	10.0	10.3	
63 n-Butanol	56	8.290	8.287	0.003	91	94129	375.0	398.1	M
64 Trichloroethene	95	8.406	8.403	0.003	98	61128	10.0	10.0	
65 Methylcyclohexane	83	8.712	8.712	0.000	95	105871	10.0	10.2	
67 1,2-Dichloropropane	63	8.737	8.737	0.000	75	63398	10.0	9.91	
66 2-ethoxy-2-methyl butane	87	8.740	8.737	0.003	89	89603	10.0	10.0	
68 Methyl methacrylate	69	8.818	8.815	0.004	93	54651	10.0	9.84	
69 1,4-Dioxane	88	8.824	8.818	0.006	33	16227	250.0	261.1	
70 Dibromomethane	93	8.847	8.847	0.000	96	42257	10.0	10.2	
72 Dichlorobromomethane	83	9.081	9.078	0.003	98	74547	10.0	9.74	
73 2-Nitropropane	41	9.351	9.345	0.006	99	128382	50.0	49.9	
74 2-Chloroethyl vinyl ether	63	9.432	9.429	0.003	93	46001	10.0	9.72	
75 cis-1,3-Dichloropropene	75	9.612	9.609	0.003	93	97869	10.0	9.81	
77 4-Methyl-2-pentanone (MIBK)	43	9.779	9.776	0.003	98	183629	20.0	20.0	
$ 78 Toluene-d8 (Surr)	98	9.911	9.908	0.003	94	1122933	50.0	50.5	
79 Toluene	92	9.985	9.982	0.003	98	153502	10.0	10.3	
S 83 1,3-Dichloropropene, Total	100				0			19.6	
84 trans-1,3-Dichloropropene	75	10.232	10.229	0.003	96	90653	10.0	9.81	
85 Ethyl methacrylate	69	10.290	10.287	0.003	91	93631	10.0	9.77	
86 1,1,2-Trichloroethane	97	10.432	10.432	0.000	92	57132	10.0	10.0	
87 Tetrachloroethene	166	10.522	10.519	0.003	96	61863	10.0	10.1	
88 1,3-Dichloropropane	76	10.596	10.593	0.003	94	99018	10.0	10.2	
90 2-Hexanone	43	10.644	10.641	0.003	98	131807	20.0	20.0	
92 Chlorodibromomethane	129	10.805	10.802	0.003	91	58182	10.0	9.71	
93 Ethylene Dibromide	107	10.914	10.914	0.000	98	63314	10.0	10.1	
S 94 Xylenes, Total	106				0			30.5	
* 95 Chlorobenzene-d5 (IS)	117	11.342	11.339	0.003	88	862104	50.0	50.0	
96 1-Chlorohexane	91	11.348	11.345	0.003	96	82663	10.0	10.0	
97 Chlorobenzene	112	11.367	11.364	0.003	95	167221	10.0	10.2	
98 1,1,1,2-Tetrachloroethane	131	11.445	11.445	0.000	93	56692	10.0	9.96	
99 Ethylbenzene	91	11.448	11.448	0.000	99	295705	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
100 m-Xylene & p-Xylene	106	11.560	11.560	0.000	99	225375	20.0	20.4	
101 o-Xylene	106	11.891	11.888	0.003	98	111672	10.0	10.1	
102 Styrene	104	11.904	11.904	0.000	95	188567	10.0	10.2	
103 Bromoform	173	12.059	12.059	0.000	96	40998	10.0	9.34	
104 Isopropylbenzene	105	12.184	12.184	0.000	96	289822	10.0	10.3	
106 Cyclohexanone	55	12.264	12.265	-0.001	95	79060	250.0	272.0	
$ 107 4-Bromofluorobenzene (Surr)	95	12.329	12.329	0.000	96	424639	50.0	50.3	
108 1,1,2,2-Tetrachloroethane	83	12.428	12.429	0.000	95	94405	10.0	9.80	
109 Bromobenzene	156	12.448	12.448	0.000	89	73248	10.0	10.2	
110 trans-1,4-Dichloro-2-butene	53	12.454	12.451	0.003	90	158435	50.0	50.5	
111 1,2,3-Trichloropropane	110	12.477	12.474	0.003	85	28671	10.0	10.1	
112 N-Propylbenzene	91	12.512	12.512	0.000	99	348980	10.0	10.2	
113 2-Chlorotoluene	126	12.589	12.589	0.000	96	68553	10.0	10.2	
114 1,3,5-Trimethylbenzene	105	12.647	12.647	0.000	95	248409	10.0	10.2	
115 4-Chlorotoluene	126	12.682	12.683	-0.001	98	70216	10.0	10.1	
117 tert-Butylbenzene	134	12.888	12.888	0.000	94	47673	10.0	10.0	
119 1,2,4-Trimethylbenzene	105	12.930	12.930	0.000	98	254852	10.0	10.1	
120 sec-Butylbenzene	105	13.052	13.049	0.003	94	305266	10.0	10.4	
121 1,3-Dichlorobenzene	146	13.152	13.152	0.000	98	138714	10.0	10.1	
122 4-Isopropyltoluene	119	13.155	13.155	0.000	97	264296	10.0	10.3	
* 123 1,4-Dichlorobenzene-d4	152	13.207	13.207	0.000	95	465058	50.0	50.0	
124 1,4-Dichlorobenzene	146	13.223	13.223	0.000	96	141903	10.0	10.1	
125 1,2,3-Trimethylbenzene	105	13.232	13.232	0.000	99	259564	10.0	10.1	
126 Benzyl chloride	91	13.300	13.300	0.000	99	182281	10.0	9.66	
127 1,3-Diethylbenzene	119	13.354	13.355	-0.001	96	159078	10.0	10.4	
128 p-Diethylbenzene	119	13.428	13.425	0.003	94	164481	10.0	10.4	
129 n-Butylbenzene	92	13.448	13.448	0.000	98	134328	10.0	10.3	
130 1,2-Dichlorobenzene	146	13.486	13.483	0.003	98	137806	10.0	10.1	
131 o-diethylbenzene	119	13.502	13.499	0.003	96	132166	10.0	10.3	
133 1,2-Dibromo-3-Chloropropane	75	14.023	14.023	0.000	81	21566	10.0	9.49	
134 1,3,5-Trichlorobenzene	180	14.149	14.149	0.000	97	102326	10.0	10.2	
135 1,2,4-Trichlorobenzene	180	14.573	14.570	0.003	94	100964	10.0	10.3	
136 Hexachlorobutadiene	225	14.650	14.654	-0.004	98	40635	10.0	9.91	
137 Naphthalene	128	14.753	14.753	0.000	97	326600	10.0	10.2	
138 1,2,3-Trichlorobenzene	180	14.901	14.898	0.003	96	96738	10.0	10.2	
139 2-Methylnaphthalene	142	15.541	15.541	0.000	93	173636	10.0	10.3	
S 145 Total Diethylbenzene	1				0			31.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00039	Amount Added:	2.00	Units: uL	
MSV_VCYC_00007	Amount Added:	8.00	Units: uL	
MSV_CCV_GASES_00111	Amount Added:	1.00	Units: uL	
MSV_CCV_VOC#3_00038	Amount Added:	1.60	Units: uL	
MSV_V_VOA2_00116	Amount Added:	2.00	Units: uL	
MSV_CCV_2CEVE_00036	Amount Added:	2.00	Units: uL	
MSV_V_EE_00006	Amount Added:	2.00	Units: uL	
MSV_HP23_ISSS_00007	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 29-Nov-2021 23:40:52 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X13.D

Injection Date: 29-Nov-2021 16:32:30 Instrument ID: 9915 Operator ID: kas02648

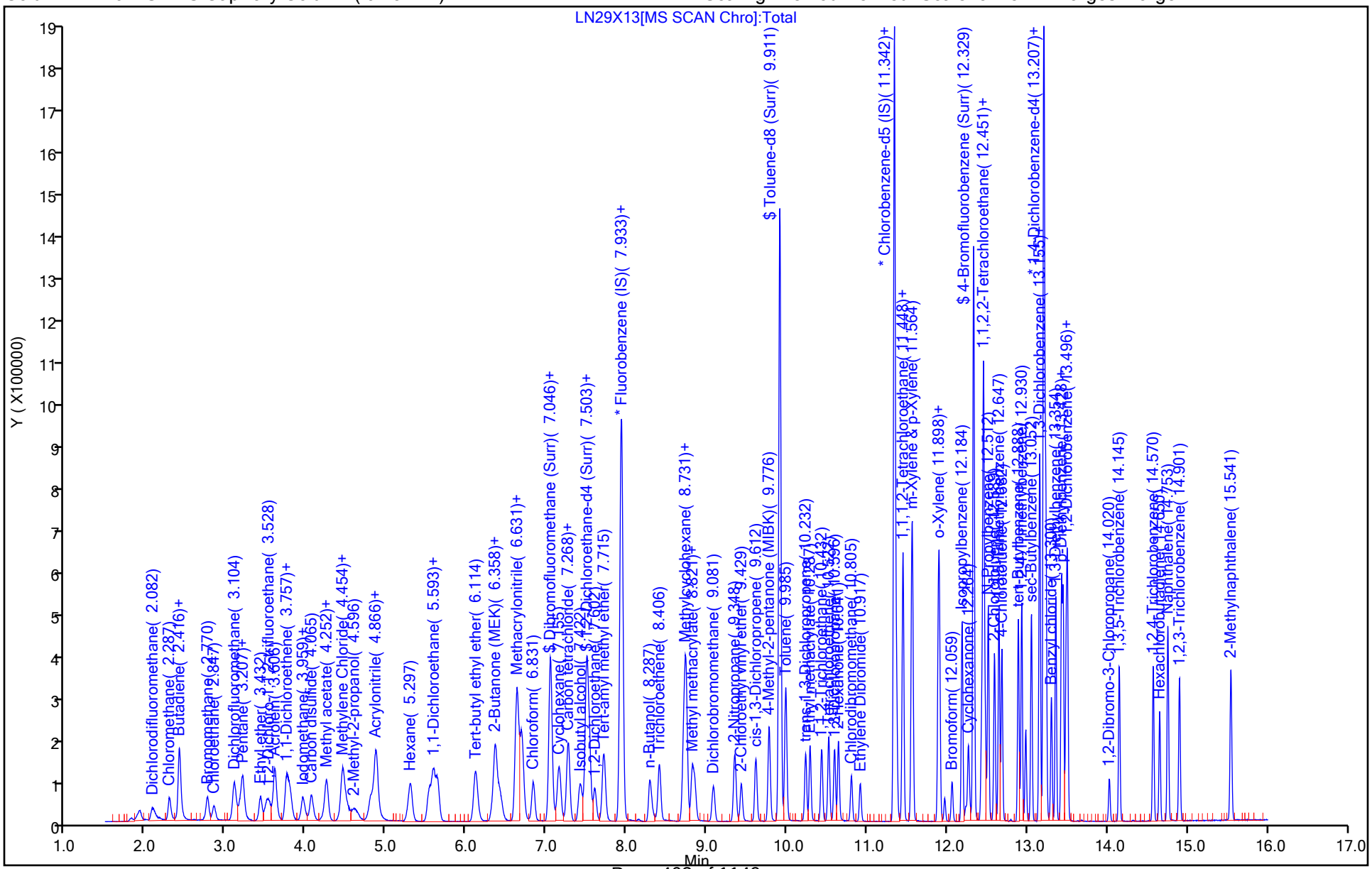
Lims ID: IC v10 Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 13

Method: MSVoa_9915a 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

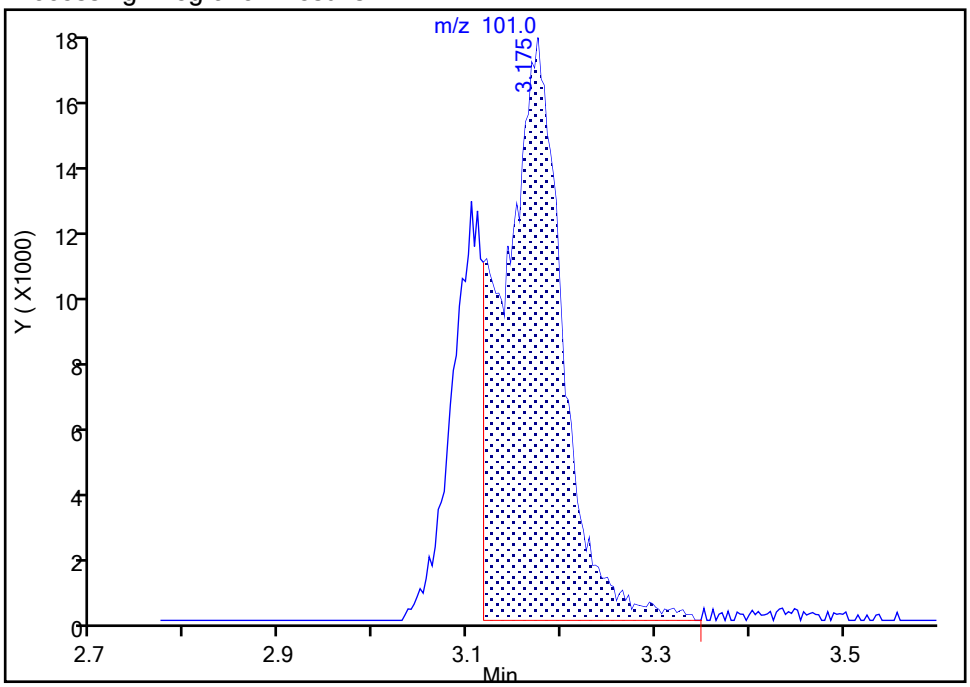
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X13.D
Injection Date: 29-Nov-2021 16:32:30 Instrument ID: 9915
Lims ID: IC v10
Client ID:
Operator ID: kas02648 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

11 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

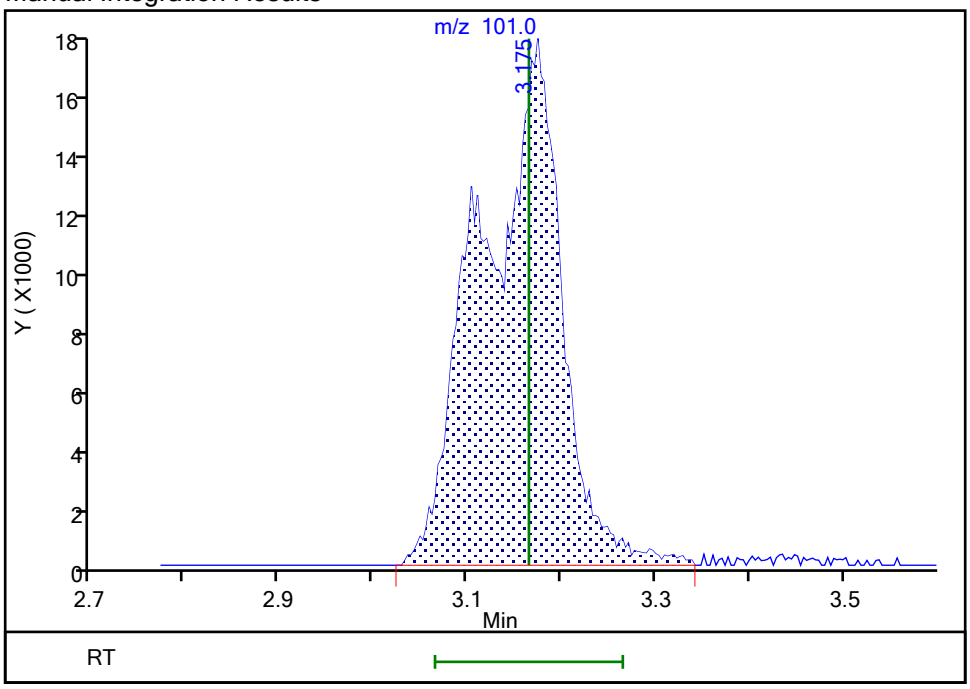
Processing Integration Results

RT: 3.17
Area: 75119
Amount: 9.549579
Amount Units: ug/l



Manual Integration Results

RT: 3.17
Area: 100866
Amount: 10.590878
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 22:56:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

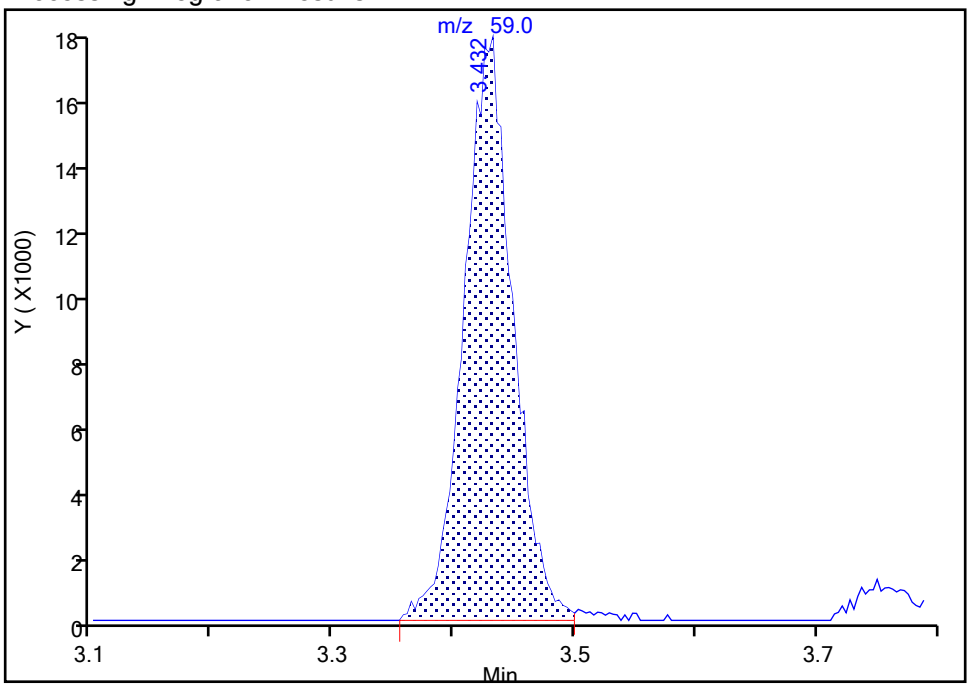
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X13.D
Injection Date: 29-Nov-2021 16:32:30 Instrument ID: 9915
Lims ID: IC v10
Client ID:
Operator ID: kas02648 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

14 Ethyl ether, CAS: 60-29-7

Signal: 1

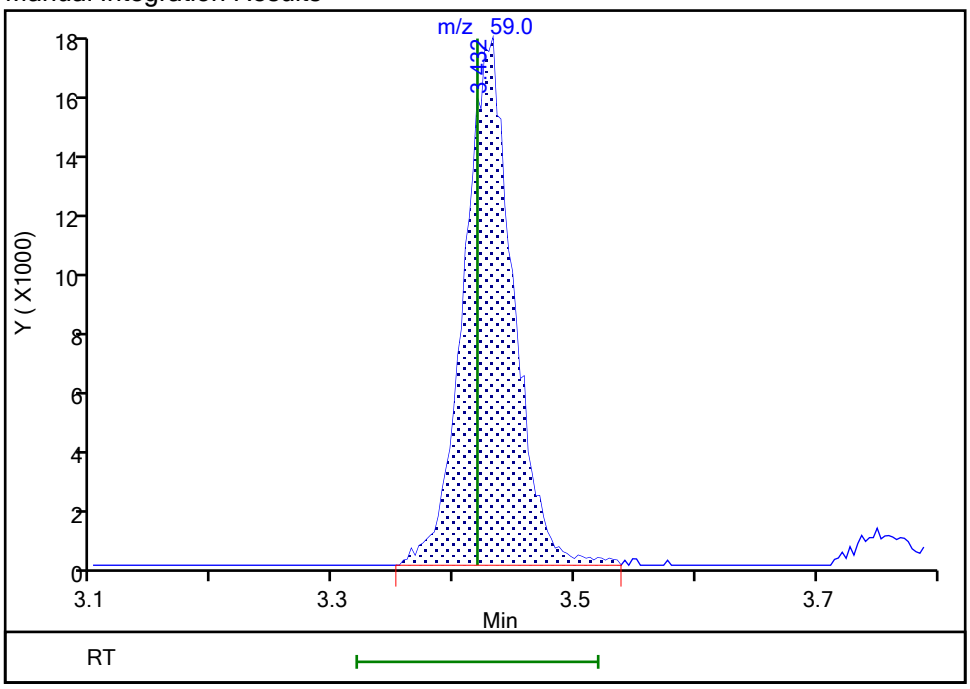
Processing Integration Results

RT: 3.43
Area: 50305
Amount: 9.501456
Amount Units: ug/l



Manual Integration Results

RT: 3.43
Area: 50792
Amount: 9.586924
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 22:56:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

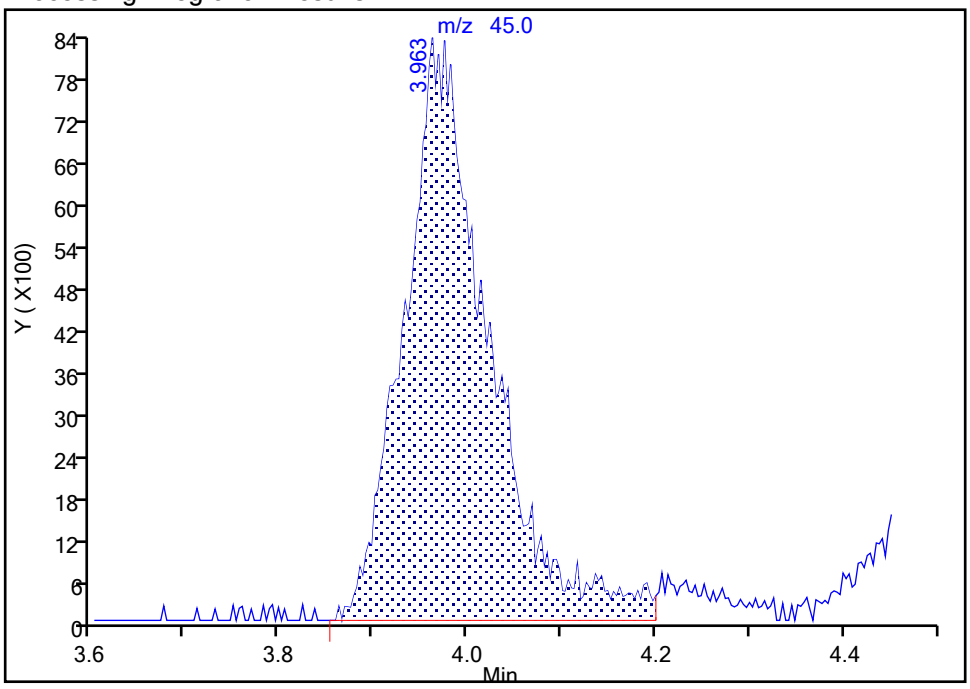
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X13.D
Injection Date: 29-Nov-2021 16:32:30 Instrument ID: 9915
Lims ID: IC v10
Client ID:
Operator ID: kas02648 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

21 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

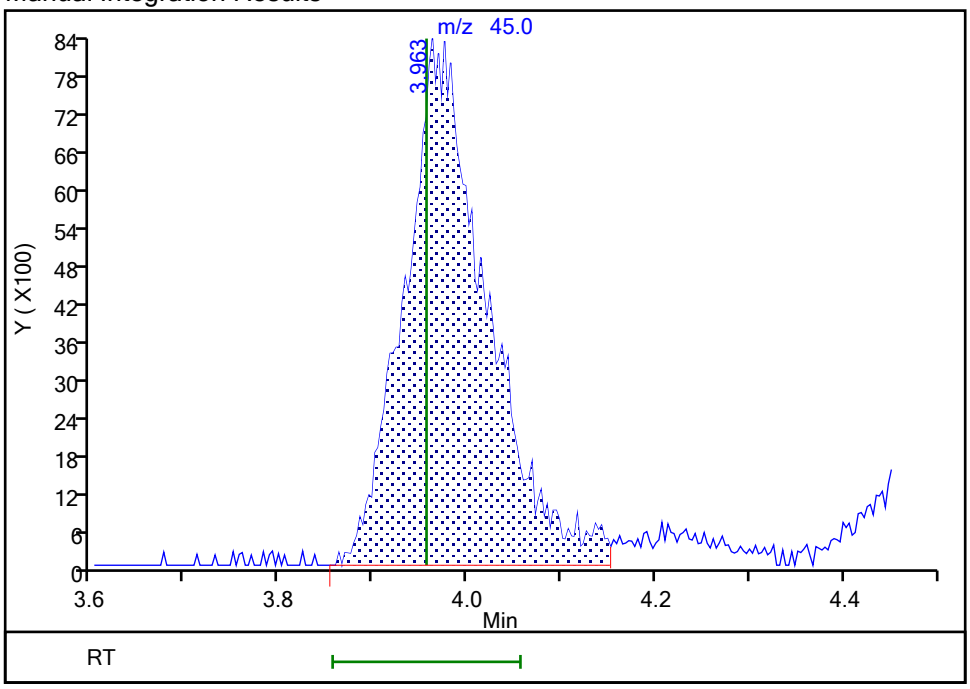
Processing Integration Results

RT: 3.96
Area: 51303
Amount: 98.826167
Amount Units: ug/l



Manual Integration Results

RT: 3.96
Area: 50206
Amount: 105.9398
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:04:35
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

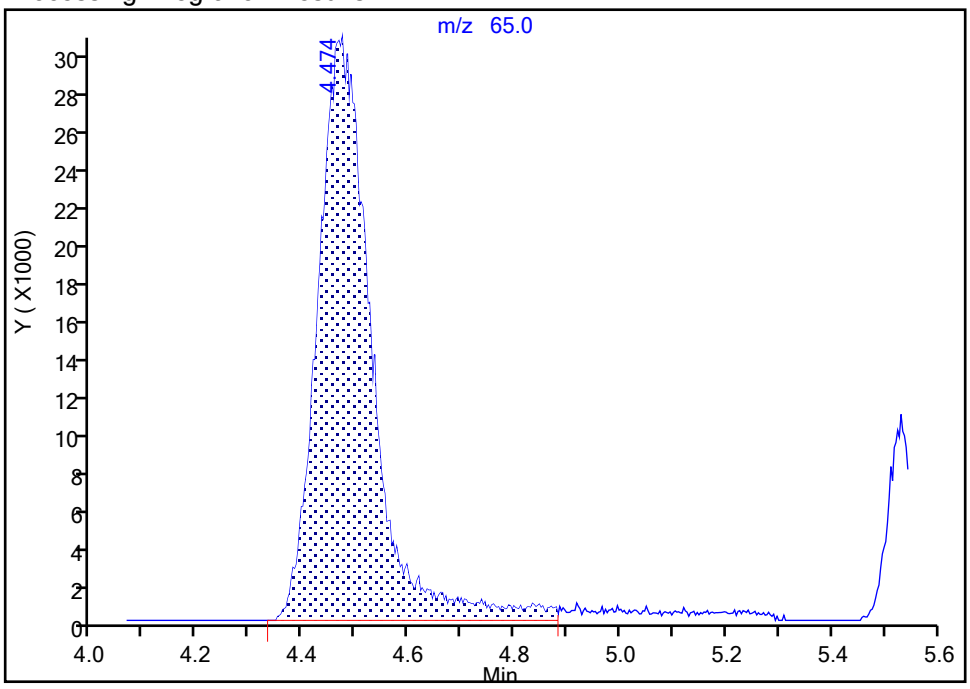
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X13.D
Injection Date: 29-Nov-2021 16:32:30 Instrument ID: 9915
Lims ID: IC v10
Client ID:
Operator ID: kas02648 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 27 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

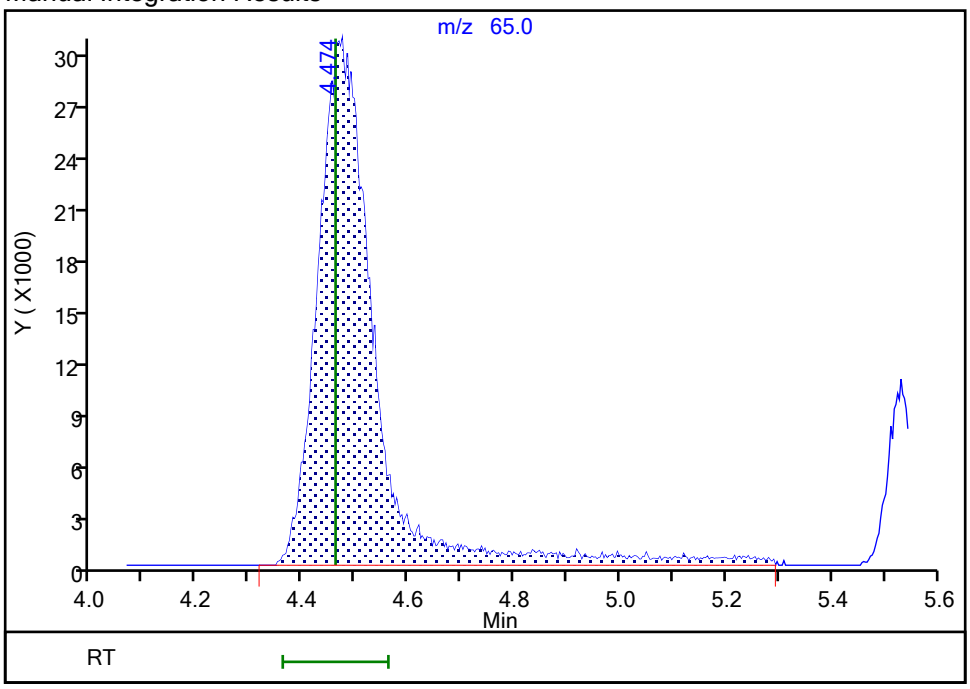
Processing Integration Results

RT: 4.47
Area: 216073
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 4.47
Area: 226940
Amount: 250.0000
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:25:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

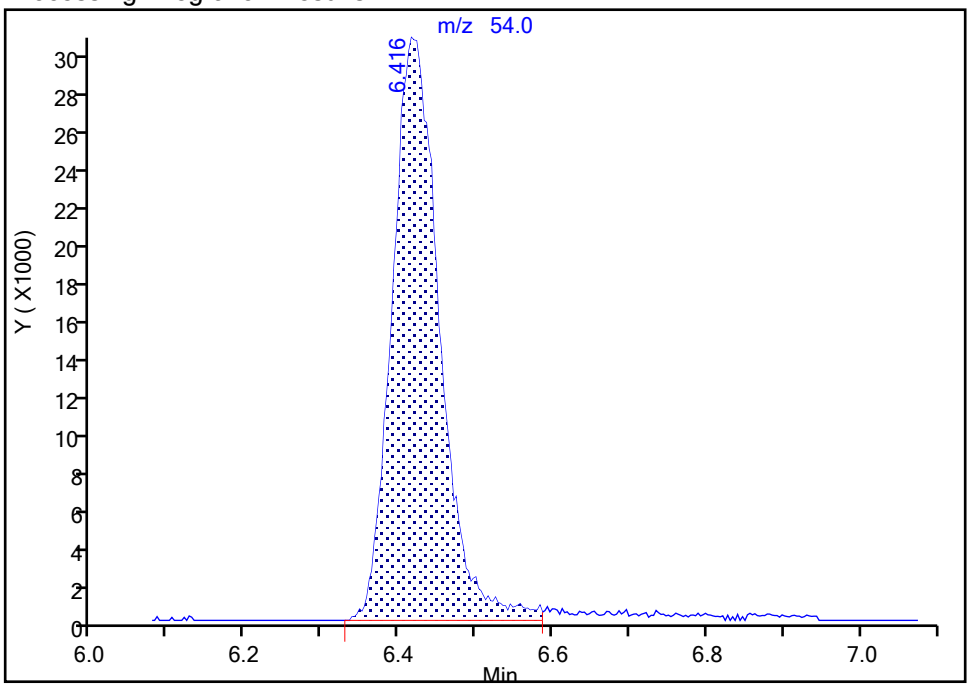
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X13.D
Injection Date: 29-Nov-2021 16:32:30 Instrument ID: 9915
Lims ID: IC v10
Client ID:
Operator ID: kas02648 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

44 Propionitrile, CAS: 107-12-0

Signal: 1

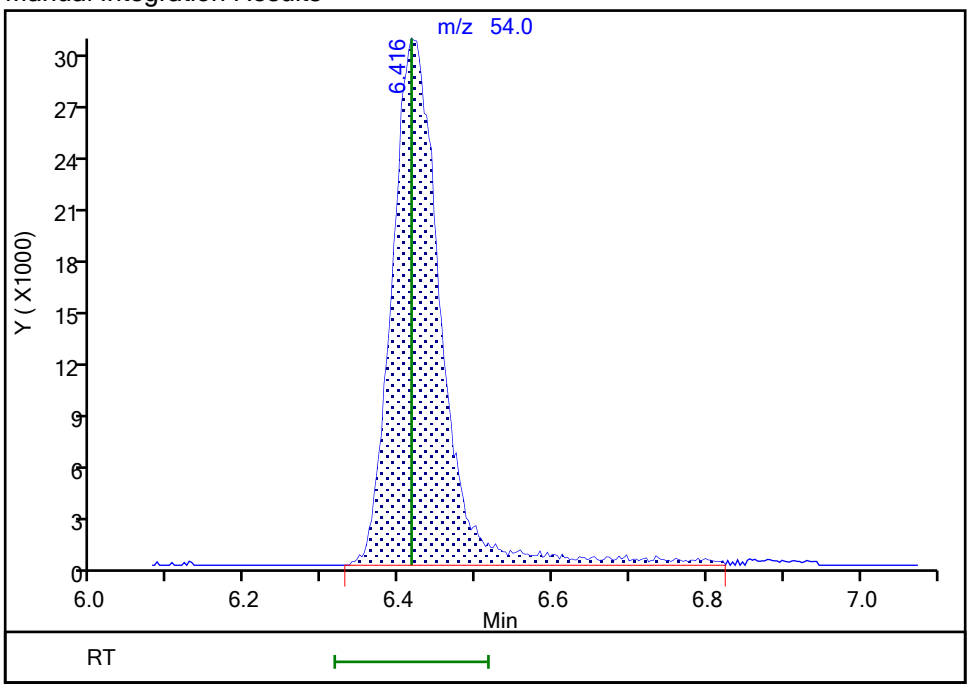
Processing Integration Results

RT: 6.42
Area: 128551
Amount: 109.0613
Amount Units: ug/l



Manual Integration Results

RT: 6.42
Area: 133340
Amount: 106.5010
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:11:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

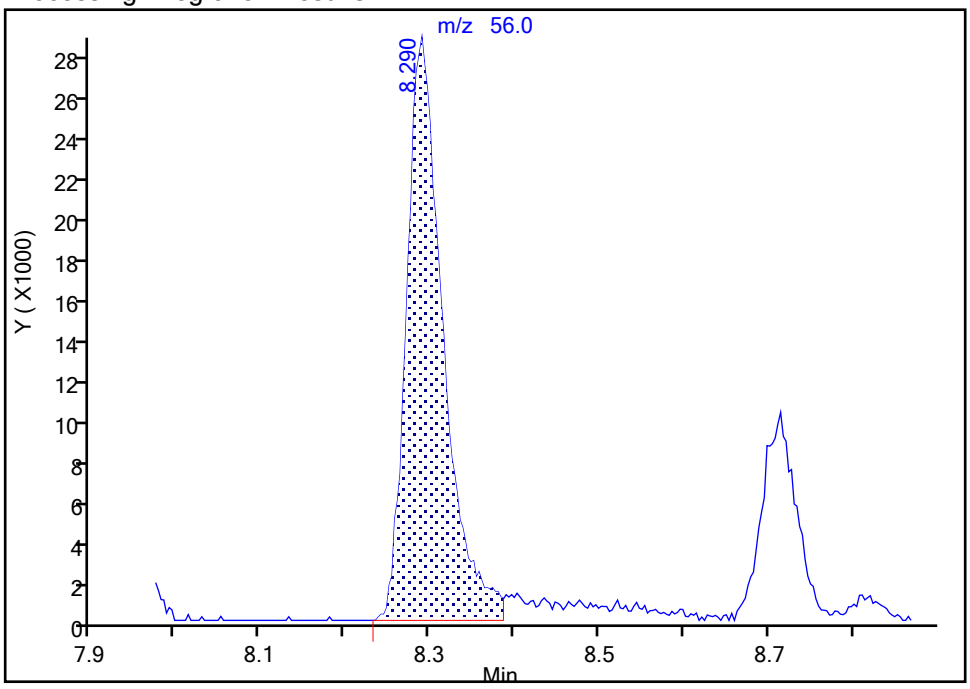
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X13.D
Injection Date: 29-Nov-2021 16:32:30 Instrument ID: 9915
Lims ID: IC v10
Client ID:
Operator ID: kas02648 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

63 n-Butanol, CAS: 71-36-3

Signal: 1

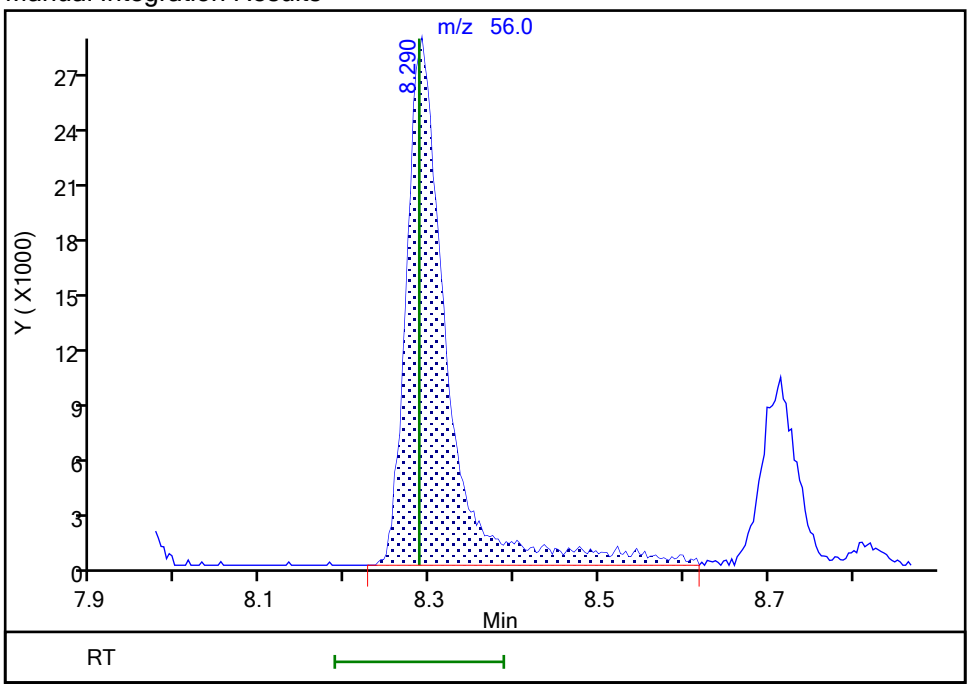
Processing Integration Results

RT: 8.29
Area: 84823
Amount: 386.3547
Amount Units: ug/l



Manual Integration Results

RT: 8.29
Area: 94129
Amount: 398.0704
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:17:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X14.D
Lims ID: IC v20
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 29-Nov-2021 16:54:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045073-014
Misc. Info.: IC
Operator ID: kas02648 Instrument ID: 9915
Sublist: chrom-MSVoa_9915a*sub45

Method: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 29-Nov-2021 23:40:57 Calib Date: 29-Nov-2021 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: campbellme Date: 29-Nov-2021 22:58:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.079	2.075	0.003	99	134876	20.0	18.4	
4 Chloromethane	50	2.288	2.284	0.004	99	158443	20.0	18.8	
5 Butadiene	39	2.410	2.403	0.007	97	161438	20.0	18.5	
6 Vinyl chloride	62	2.413	2.410	0.003	93	159585	20.0	19.0	
8 Bromomethane	94	2.763	2.757	0.006	92	107514	20.0	19.0	
9 Chloroethane	64	2.841	2.840	0.001	98	87524	20.0	18.9	
10 Dichlorofluoromethane	67	3.098	3.091	0.007	97	214173	20.0	19.2	
11 Trichlorofluoromethane	101	3.172	3.165	0.007	97	185585	20.0	18.5	M
12 Pentane	43	3.201	3.197	0.004	98	208417	20.0	19.9	
14 Ethyl ether	59	3.426	3.419	0.007	93	113297	20.0	20.3	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.509	3.509	0.000	93	135371	20.0	19.0	
16 Acrolein	56	3.606	3.599	0.007	99	401864	200.4	196.9	
17 1,1-Dichloroethene	96	3.750	3.744	0.006	96	104454	20.0	19.9	
18 Acetone	58	3.779	3.779	0.000	99	32584	40.0	38.0	
19 112TCTFE	101	3.789	3.786	0.003	90	103249	20.0	20.1	
20 Iodomethane	142	3.950	3.950	0.000	98	182784	20.0	20.1	
21 Isopropyl alcohol	45	3.969	3.956	0.013	96	106782	200.0	208.8	M
22 Carbon disulfide	76	4.062	4.053	0.009	100	324254	20.0	20.0	
24 Methyl acetate	43	4.223	4.220	0.003	98	135398	20.0	19.3	
25 3-Chloro-1-propene	41	4.252	4.249	0.003	89	194030	20.0	19.7	
26 Methylene Chloride	84	4.451	4.445	0.006	94	124836	20.0	20.2	
* 27 t-Butyl alcohol-d10 (IS)	65	4.471	4.461	0.010	56	244914	250.0	250.0	M
28 2-Methyl-2-propanol	59	4.593	4.602	-0.009	99	206186	200.0	219.6	
29 Acrylonitrile	53	4.799	4.795	0.004	98	171932	50.0	49.3	
31 Methyl tert-butyl ether	73	4.853	4.860	-0.007	97	390957	20.0	20.3	
32 trans-1,2-Dichloroethene	96	4.869	4.863	0.006	97	121768	20.0	20.2	
33 Hexane	57	5.291	5.287	0.004	96	180784	20.0	20.5	
35 1,1-Dichloroethane	63	5.522	5.528	-0.006	97	220310	20.0	19.9	
36 Isopropyl ether	45	5.583	5.583	0.000	96	411831	20.0	20.1	
37 2-Chloro-1,3-butadiene	53	5.641	5.631	0.010	93	191839	20.0	20.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 Tert-butyl ethyl ether	59	6.111	6.110	0.000	97	396917	20.0	19.9	
S 39 1,2-Dichloroethene, Total	100				0			40.4	
40 2-Butanone (MEK)	43	6.326	6.326	0.000	100	180312	40.0	39.0	
41 cis-1,2-Dichloroethene	96	6.355	6.352	0.003	83	131783	20.0	20.2	
42 2,2-Dichloropropane	77	6.365	6.364	0.000	68	181760	20.0	19.8	
44 Propionitrile	54	6.416	6.416	0.000	99	278462	200.0	206.1	
45 Methacrylonitrile	67	6.628	6.631	-0.003	94	380351	100.0	105.5	
46 Chlorobromomethane	128	6.680	6.680	0.000	93	67221	20.0	20.4	
47 Tetrahydrofuran	71	6.686	6.689	-0.003	91	119460	100.0	97.8	
48 Chloroform	83	6.828	6.831	-0.003	94	217392	20.0	20.0	
$ 49 Dibromofluoromethane (Surr)	113	7.046	7.040	0.006	93	288084	50.0	49.9	
50 1,1,1-Trichloroethane	97	7.059	7.053	0.006	98	190175	20.0	20.0	
51 Cyclohexane	56	7.155	7.152	0.003	93	218813	20.0	20.2	
52 Carbon tetrachloride	117	7.265	7.262	0.003	96	153577	20.0	19.8	
53 1,1-Dichloropropene	75	7.268	7.268	0.000	96	172336	20.0	20.1	
54 Isobutyl alcohol	41	7.426	7.422	0.004	96	176489	500.0	540.4	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.493	7.499	-0.006	98	70713	50.0	49.8	
56 Benzene	78	7.528	7.528	0.000	97	503036	20.0	20.1	
57 1,2-Dichloroethane	62	7.599	7.599	0.000	98	183705	20.0	19.8	
59 Tert-amyl methyl ether	73	7.712	7.715	-0.003	98	391318	20.0	20.3	
* 61 Fluorobenzene (IS)	96	7.930	7.930	0.000	97	1162206	50.0	50.0	
62 n-Heptane	43	7.937	7.937	0.000	48	195293	20.0	20.3	
63 n-Butanol	56	8.287	8.287	0.000	90	209031	750.0	763.5	M
64 Trichloroethene	95	8.403	8.403	0.000	98	129077	20.0	20.1	
65 Methylcyclohexane	83	8.712	8.712	0.000	94	226466	20.0	20.7	
67 1,2-Dichloropropane	63	8.741	8.737	0.004	69	135677	20.0	20.1	
66 2-ethoxy-2-methyl butane	87	8.741	8.737	0.004	89	189535	20.0	20.2	
68 Methyl methacrylate	69	8.815	8.815	0.001	93	114167	20.0	19.5	
69 1,4-Dioxane	88	8.821	8.818	0.003	70	34562	500.0	515.4	M
70 Dibromomethane	93	8.844	8.847	-0.003	96	86448	20.0	19.8	
72 Dichlorobromomethane	83	9.081	9.078	0.003	99	159160	20.0	19.8	
73 2-Nitropropane	41	9.345	9.345	0.000	99	279983	100.0	100.9	
74 2-Chloroethyl vinyl ether	63	9.429	9.429	0.000	92	101422	20.0	20.4	
75 cis-1,3-Dichloropropene	75	9.609	9.609	0.000	93	213434	20.0	20.3	
77 4-Methyl-2-pentanone (MIBK)	43	9.776	9.776	0.000	99	385719	40.0	39.9	
$ 78 Toluene-d8 (Surr)	98	9.908	9.908	0.000	94	1182884	50.0	50.3	
79 Toluene	92	9.985	9.982	0.003	98	318125	20.0	20.2	
S 83 1,3-Dichloropropene, Total	100				0			40.6	
84 trans-1,3-Dichloropropene	75	10.233	10.229	0.004	96	197723	20.0	20.2	
85 Ethyl methacrylate	69	10.290	10.287	0.003	91	208380	20.0	20.6	
86 1,1,2-Trichloroethane	97	10.432	10.432	0.000	91	121862	20.0	20.2	
87 Tetrachloroethene	166	10.522	10.519	0.003	96	130119	20.0	20.2	
88 1,3-Dichloropropane	76	10.593	10.593	0.000	94	204335	20.0	19.9	
90 2-Hexanone	43	10.641	10.641	0.000	98	280161	40.0	40.2	
92 Chlorodibromomethane	129	10.802	10.802	0.000	90	127868	20.0	20.2	
93 Ethylene Dibromide	107	10.914	10.914	0.000	98	132952	20.0	20.1	
S 94 Xylenes, Total	106				0			61.5	
* 95 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	88	911068	50.0	50.0	
96 1-Chlorohexane	91	11.345	11.345	0.000	93	169388	20.0	19.4	
97 Chlorobenzene	112	11.368	11.364	0.004	94	347041	20.0	20.1	
98 1,1,1,2-Tetrachloroethane	131	11.445	11.445	0.000	94	120491	20.0	20.0	
99 Ethylbenzene	91	11.448	11.448	0.000	99	626795	20.0	20.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 m-Xylene & p-Xylene	106	11.560	11.560	0.000	100	481570	40.0	41.2	
101 o-Xylene	106	11.888	11.888	0.000	97	237734	20.0	20.4	
102 Styrene	104	11.904	11.904	0.000	95	396926	20.0	20.3	
103 Bromoform	173	12.062	12.059	0.003	96	95522	20.0	20.6	
104 Isopropylbenzene	105	12.187	12.184	0.003	96	622078	20.0	20.8	
106 Cyclohexanone	55	12.265	12.265	0.000	95	154909	500.0	493.8	
$ 107 4-Bromofluorobenzene (Surr)	95	12.329	12.329	0.000	89	445919	50.0	50.0	
108 1,1,2,2-Tetrachloroethane	83	12.429	12.429	0.001	93	209960	20.0	20.7	
109 Bromobenzene	156	12.448	12.448	0.000	94	150259	20.0	19.9	
110 trans-1,4-Dichloro-2-butene	53	12.451	12.451	0.000	91	343655	100.0	104.2	
111 1,2,3-Trichloropropane	110	12.477	12.474	0.003	85	59860	20.0	20.1	
112 N-Propylbenzene	91	12.512	12.512	0.000	99	733722	20.0	20.4	
113 2-Chlorotoluene	126	12.589	12.589	0.000	96	144964	20.0	20.4	
114 1,3,5-Trimethylbenzene	105	12.647	12.647	0.000	95	527392	20.0	20.6	
115 4-Chlorotoluene	126	12.683	12.683	0.000	98	149941	20.0	20.5	
117 tert-Butylbenzene	134	12.888	12.888	0.000	94	101678	20.0	20.4	
119 1,2,4-Trimethylbenzene	105	12.930	12.930	0.000	98	544171	20.0	20.6	
120 sec-Butylbenzene	105	13.049	13.049	0.000	95	644078	20.0	20.8	
121 1,3-Dichlorobenzene	146	13.152	13.152	0.000	98	292848	20.0	20.2	
122 4-Isopropyltoluene	119	13.155	13.155	0.000	97	558502	20.0	20.7	
* 123 1,4-Dichlorobenzene-d4	152	13.207	13.207	0.000	95	489069	50.0	50.0	
124 1,4-Dichlorobenzene	146	13.223	13.223	0.000	95	301402	20.0	20.4	
125 1,2,3-Trimethylbenzene	105	13.232	13.232	0.000	99	550137	20.0	20.4	
126 Benzyl chloride	91	13.300	13.300	0.000	99	408452	20.0	20.6	
127 1,3-Diethylbenzene	119	13.355	13.355	0.000	96	336871	20.0	20.9	
128 p-Diethylbenzene	119	13.425	13.425	0.000	94	347410	20.0	20.9	
129 n-Butylbenzene	92	13.448	13.448	0.000	98	286438	20.0	20.9	
130 1,2-Dichlorobenzene	146	13.483	13.483	0.000	97	290701	20.0	20.3	
131 o-diethylbenzene	119	13.499	13.499	0.000	96	280028	20.0	20.8	
133 1,2-Dibromo-3-Chloropropane	75	14.023	14.023	0.000	83	48684	20.0	20.4	
134 1,3,5-Trichlorobenzene	180	14.146	14.149	-0.003	98	217746	20.0	20.6	
135 1,2,4-Trichlorobenzene	180	14.570	14.570	0.000	94	213281	20.0	20.7	
136 Hexachlorobutadiene	225	14.654	14.654	0.000	98	87244	20.0	20.2	
137 Naphthalene	128	14.756	14.753	0.003	97	708432	20.0	21.0	
138 1,2,3-Trichlorobenzene	180	14.898	14.898	0.000	96	204271	20.0	20.5	
139 2-Methylnaphthalene	142	15.541	15.541	0.000	92	385513	20.0	21.7	
S 145 Total Diethylbenzene	1				0			62.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00039	Amount Added:	4.00	Units: uL	
MSV_VCYC_00007	Amount Added:	16.00	Units: uL	
MSV_CCV_GASES_00111	Amount Added:	2.00	Units: uL	
MSV_CCV_VOC#3_00038	Amount Added:	3.20	Units: uL	
MSV_V_VOA2_00116	Amount Added:	4.00	Units: uL	
MSV_CCV_2CEVE_00036	Amount Added:	4.00	Units: uL	
MSV_V_EE_00006	Amount Added:	4.00	Units: uL	
MSV_HP23_ISSS_00007	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 29-Nov-2021 23:40:57 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X14.D

Injection Date: 29-Nov-2021 16:54:30 Instrument ID: 9915 Operator ID: kas02648

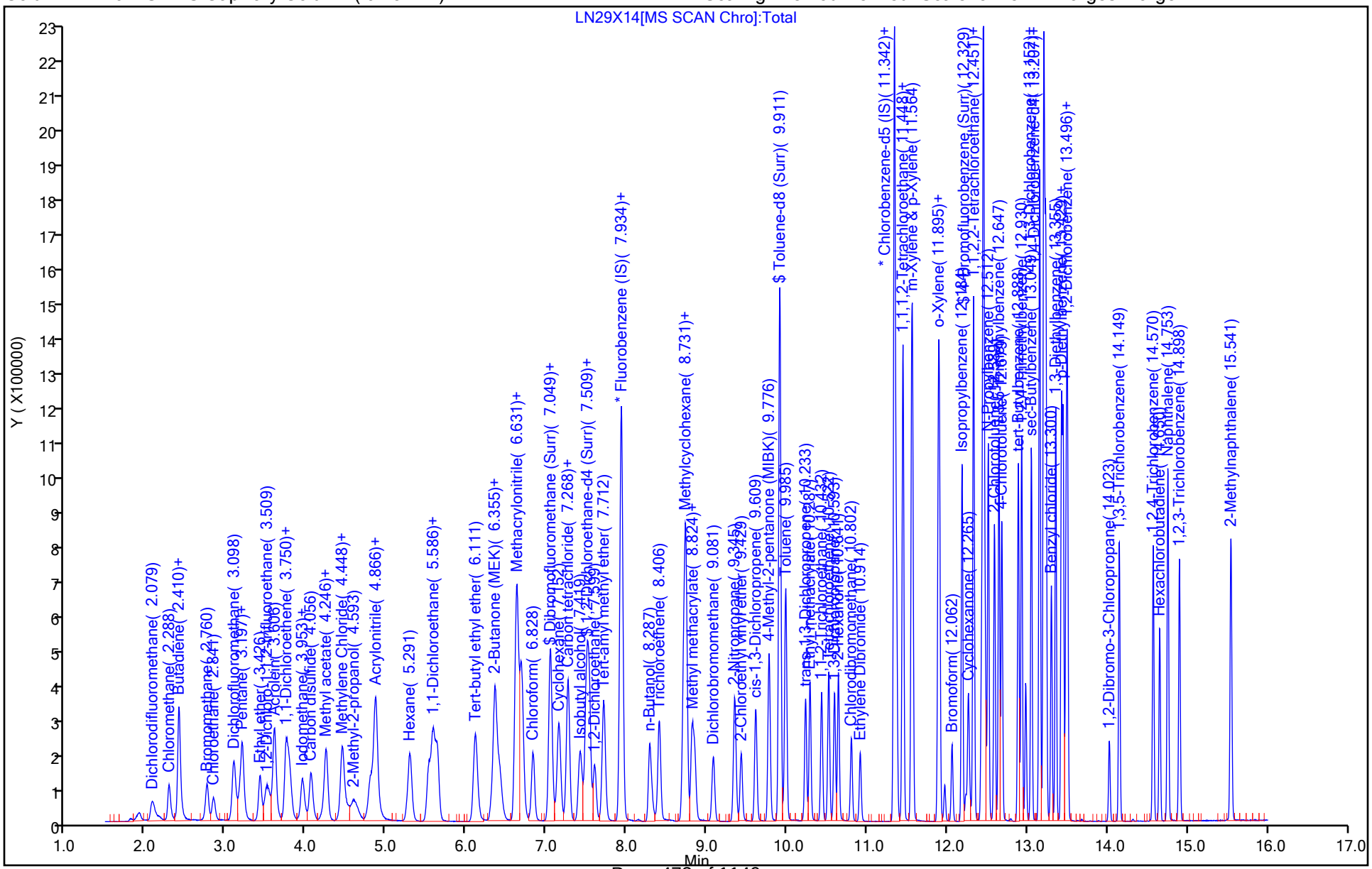
Lims ID: IC v20 Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 14

Method: MSVoa_9915a 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

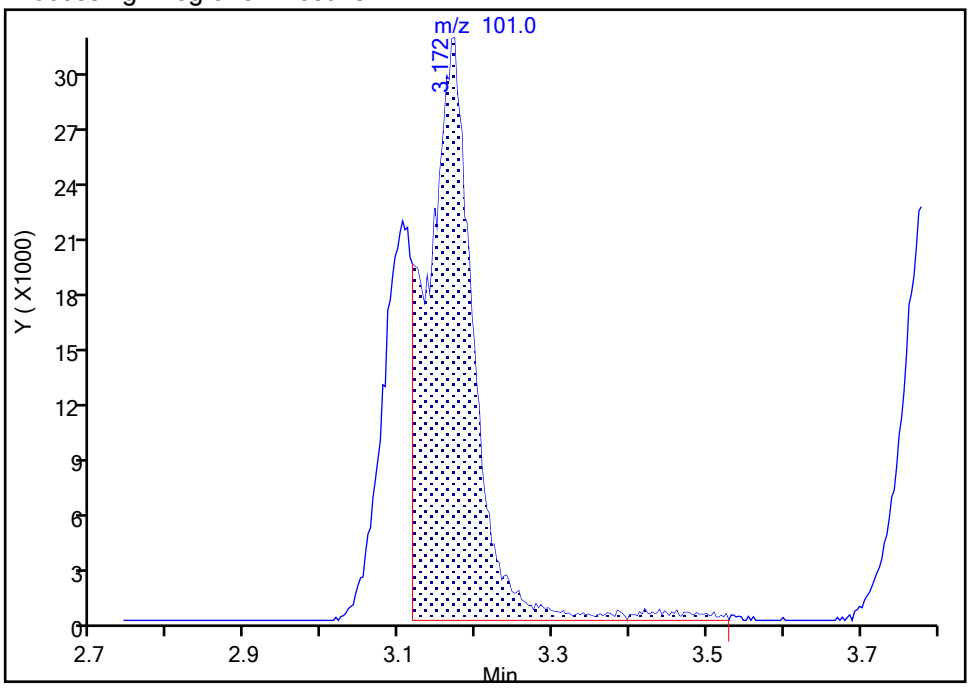
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X14.D
Injection Date: 29-Nov-2021 16:54:30 Instrument ID: 9915
Lims ID: IC v20
Client ID:
Operator ID: kas02648 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

11 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

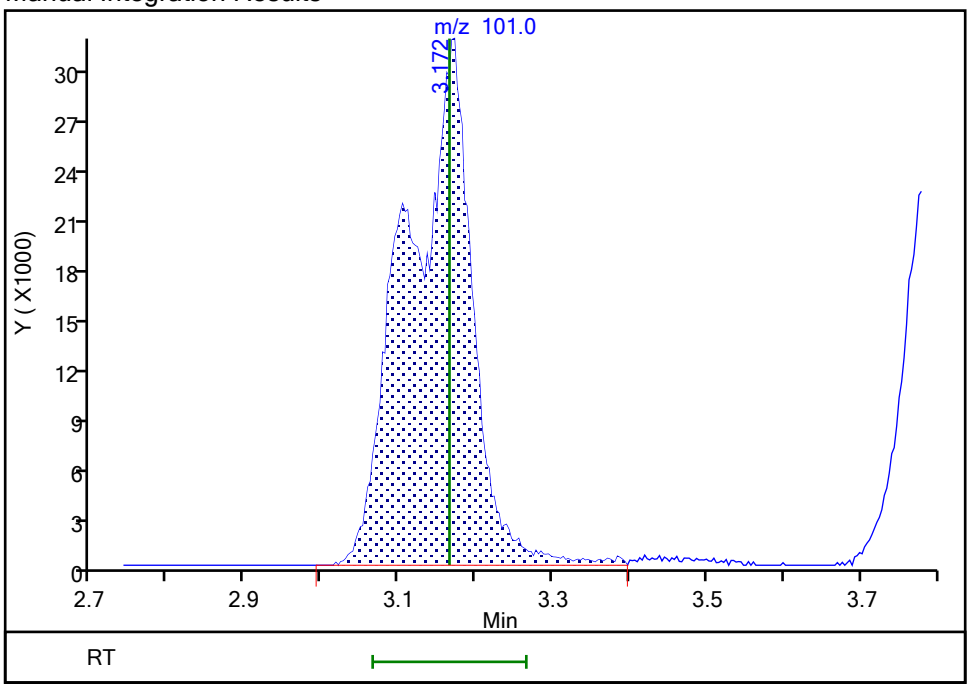
Processing Integration Results

RT: 3.17
Area: 134421
Amount: 15.411213
Amount Units: ug/l



Manual Integration Results

RT: 3.17
Area: 185585
Amount: 18.510475
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 22:58:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

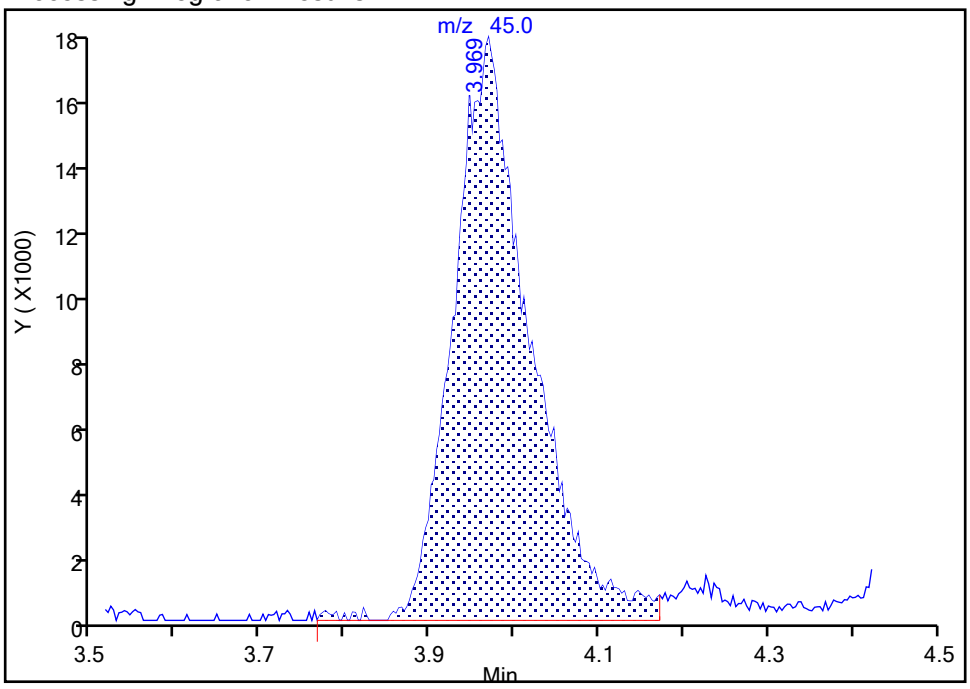
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X14.D
Injection Date: 29-Nov-2021 16:54:30 Instrument ID: 9915
Lims ID: IC v20
Client ID:
Operator ID: kas02648 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

21 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

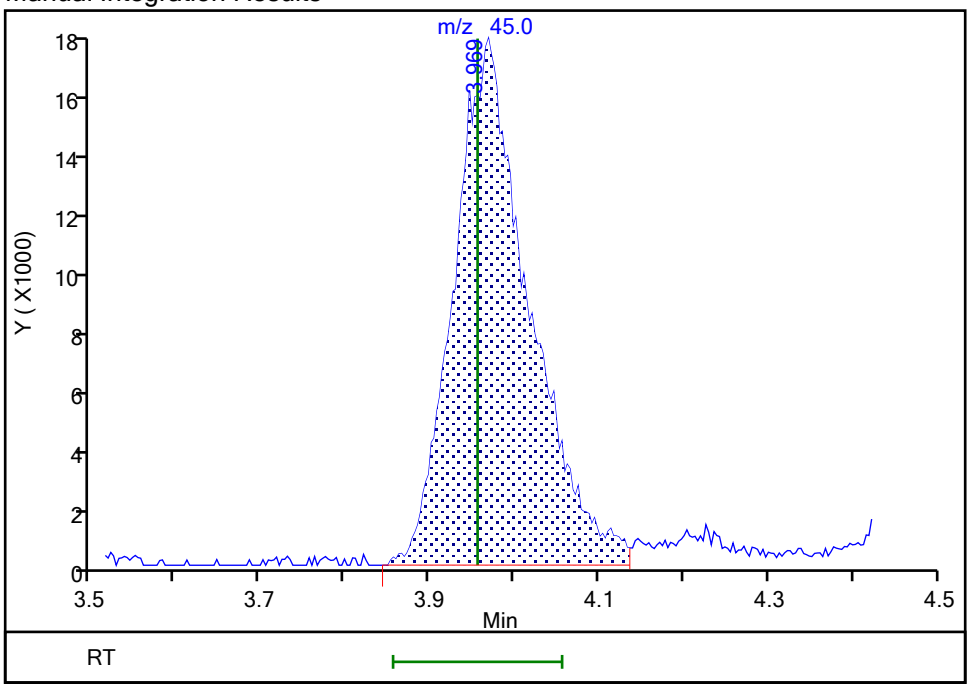
Processing Integration Results

RT: 3.97
Area: 108872
Amount: 190.0795
Amount Units: ug/l



Manual Integration Results

RT: 3.97
Area: 106782
Amount: 208.7849
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:04:20
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

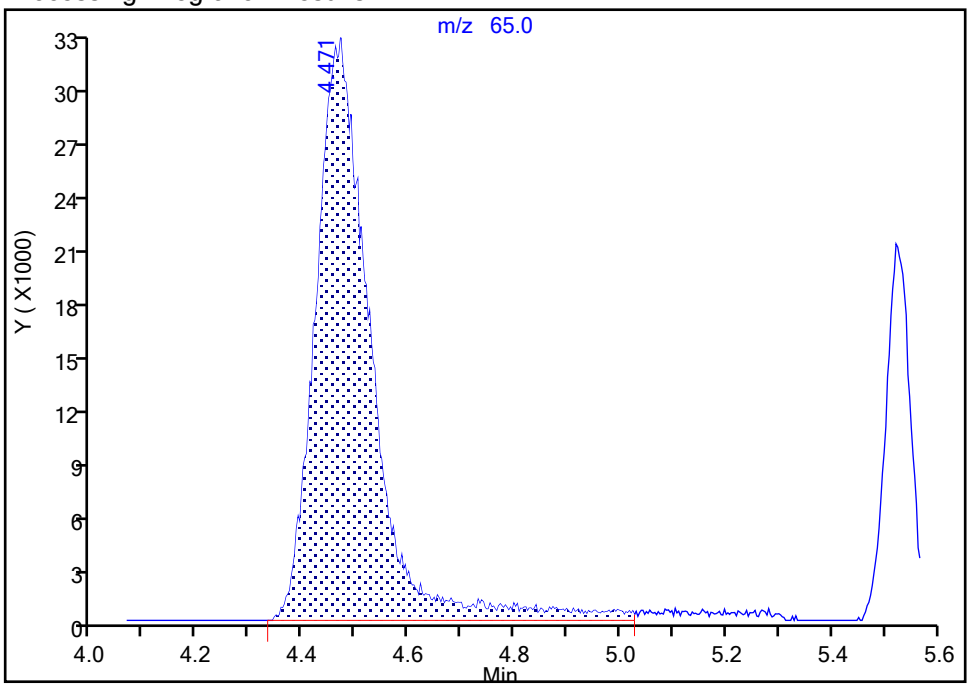
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X14.D
Injection Date: 29-Nov-2021 16:54:30 Instrument ID: 9915
Lims ID: IC v20
Client ID:
Operator ID: kas02648 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 27 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

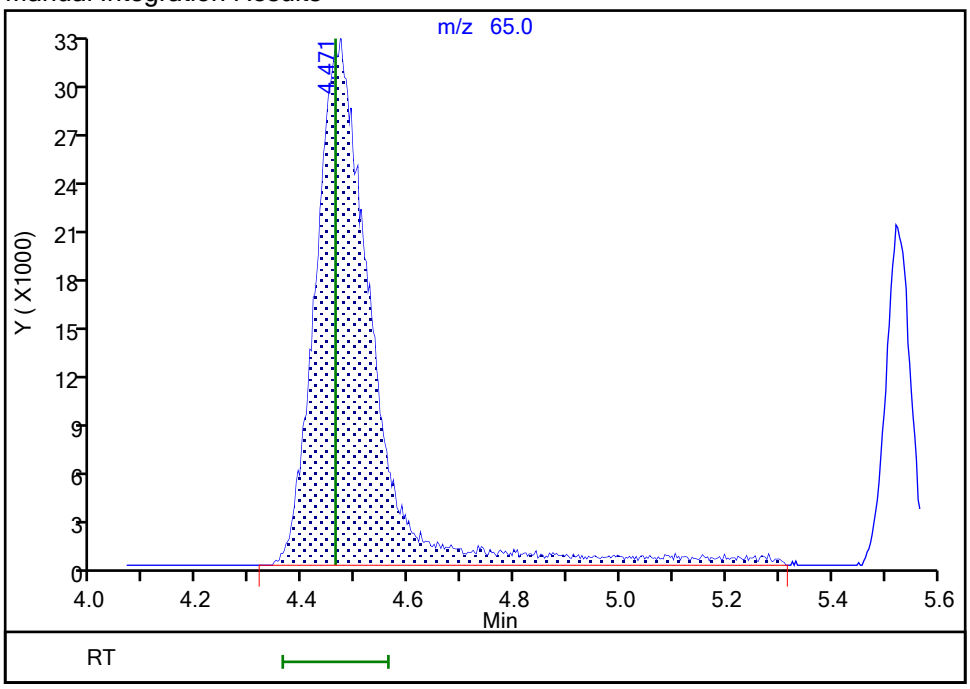
Processing Integration Results

RT: 4.47
Area: 237781
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 4.47
Area: 244914
Amount: 250.0000
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:24:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

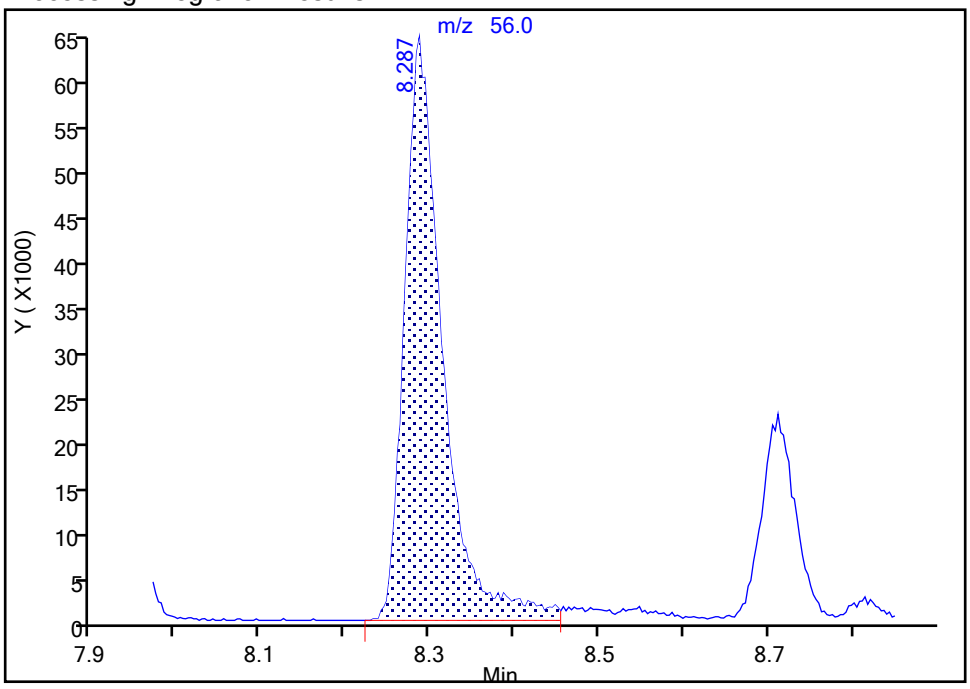
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X14.D
Injection Date: 29-Nov-2021 16:54:30 Instrument ID: 9915
Lims ID: IC v20
Client ID:
Operator ID: kas02648 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

63 n-Butanol, CAS: 71-36-3

Signal: 1

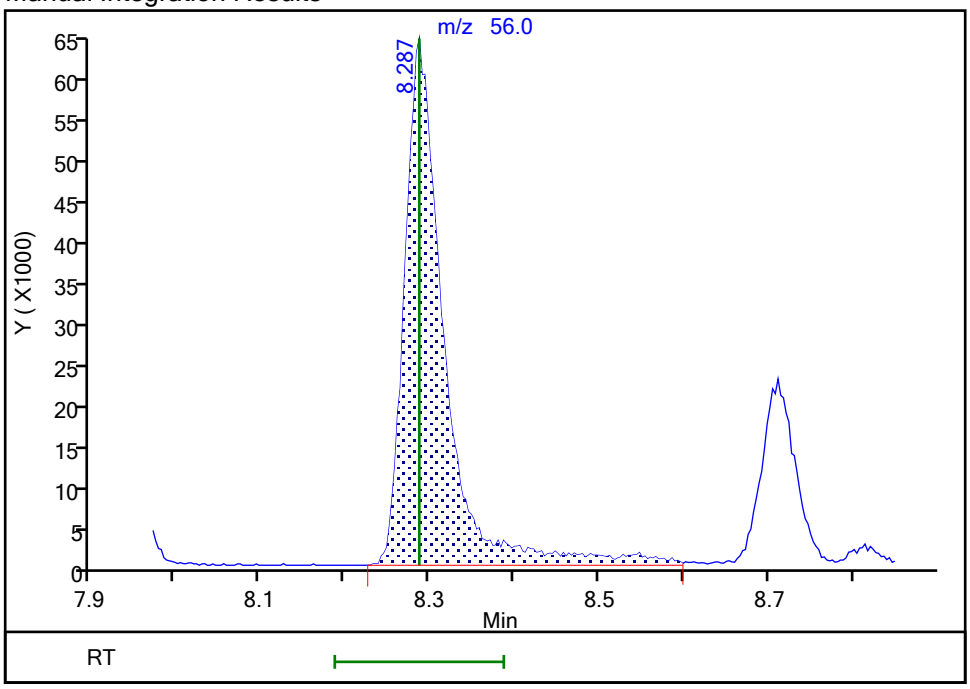
Processing Integration Results

RT: 8.29
Area: 200133
Amount: 762.2362
Amount Units: ug/l



Manual Integration Results

RT: 8.29
Area: 209031
Amount: 763.4538
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:17:37
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

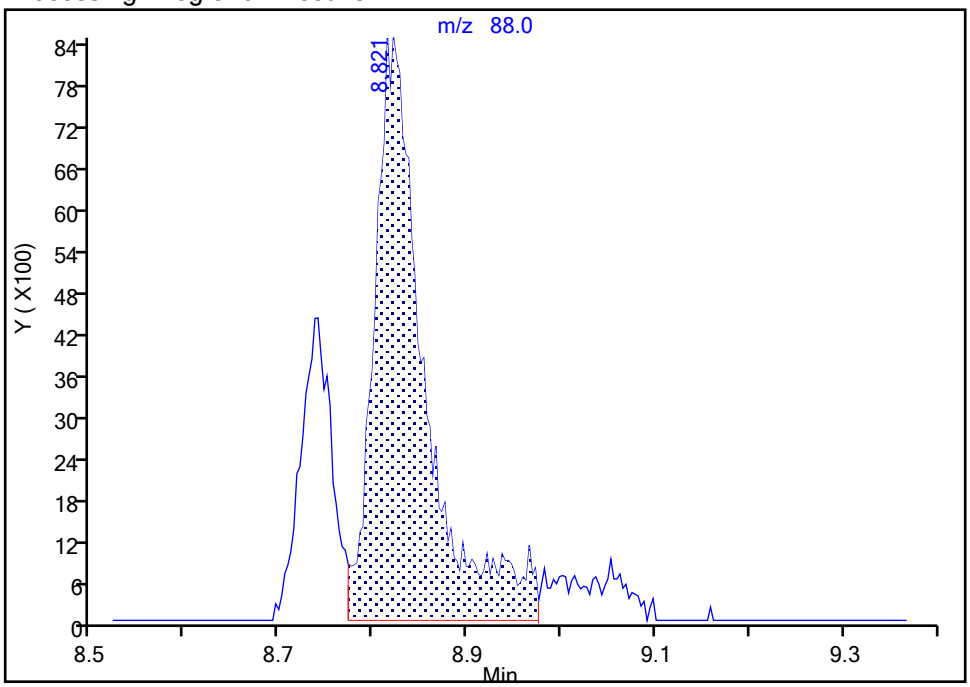
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X14.D
Injection Date: 29-Nov-2021 16:54:30 Instrument ID: 9915
Lims ID: IC v20
Client ID:
Operator ID: kas02648 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

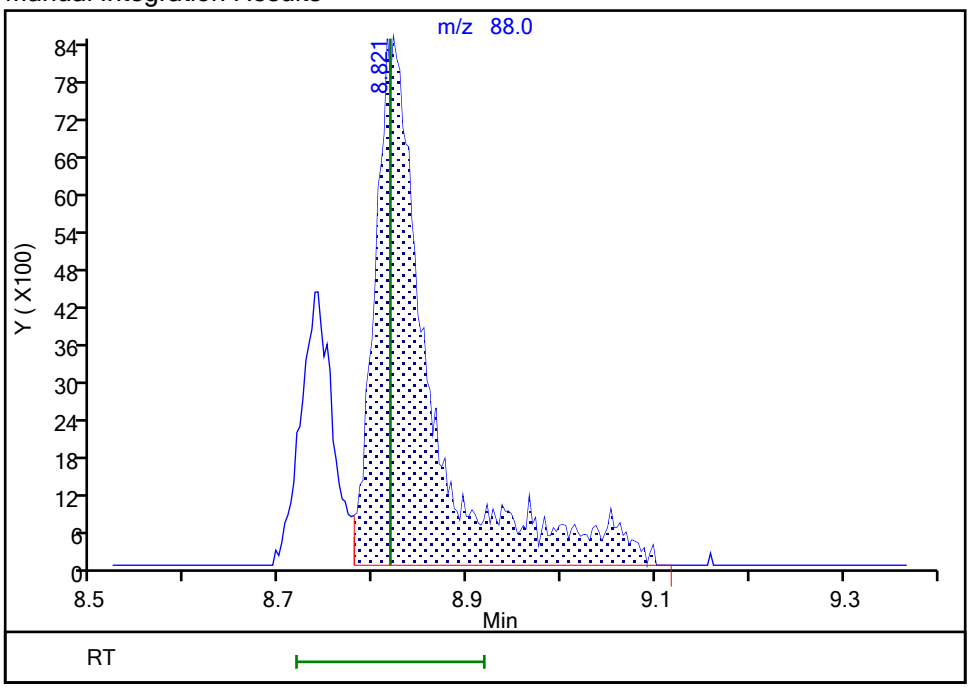
Processing Integration Results

RT: 8.82
Area: 31281
Amount: 453.0246
Amount Units: ug/l



Manual Integration Results

RT: 8.82
Area: 34562
Amount: 515.3901
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 22:58:41
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X15.D
Lims ID: ICIS v50
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 29-Nov-2021 17:16:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045073-015
Misc. Info.: IC
Operator ID: kas02648 Instrument ID: 9915
Sublist: chrom-MSVoa_9915a*sub45

Method: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 29-Nov-2021 23:41:02 Calib Date: 29-Nov-2021 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: campbellme Date: 29-Nov-2021 23:00:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.075	2.075	0.000	99	390634	50.0	53.9	M
4 Chloromethane	50	2.284	2.284	0.000	99	425627	50.0	51.2	
5 Butadiene	39	2.403	2.403	0.000	96	438495	50.0	50.8	
6 Vinyl chloride	62	2.410	2.410	0.000	97	428834	50.0	51.6	
8 Bromomethane	94	2.757	2.757	0.000	91	289145	50.0	51.7	
9 Chloroethane	64	2.840	2.840	0.000	100	235784	50.0	51.4	
10 Dichlorofluoromethane	67	3.091	3.091	0.000	97	570260	50.0	51.6	
11 Trichlorofluoromethane	101	3.165	3.165	0.000	97	526540	50.0	53.2	M
12 Pentane	43	3.197	3.197	0.000	97	521388	50.0	50.3	
14 Ethyl ether	59	3.419	3.419	0.000	94	278968	50.0	50.6	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.509	3.509	0.000	94	364775	50.0	51.7	
16 Acrolein	56	3.599	3.599	0.000	99	1070908	501.1	545.3	
17 1,1-Dichloroethene	96	3.744	3.744	0.000	96	263290	50.0	50.7	
18 Acetone	58	3.779	3.779	0.000	99	87172	100.0	105.7	
19 112TCTFE	101	3.786	3.786	0.000	91	264140	50.0	52.1	
20 Iodomethane	142	3.950	3.950	0.000	99	452593	50.0	50.3	
21 Isopropyl alcohol	45	3.956	3.956	0.000	99	132809	250.0	269.9	
22 Carbon disulfide	76	4.053	4.053	0.000	100	814980	50.0	50.9	
24 Methyl acetate	43	4.220	4.220	0.000	99	348286	50.0	50.1	
25 3-Chloro-1-propene	41	4.249	4.249	0.000	91	490271	50.0	50.3	
26 Methylene Chloride	84	4.445	4.445	0.000	96	308273	50.0	50.5	
* 27 t-Butyl alcohol-d10 (IS)	65	4.464	4.464	0.000	56	235614	250.0	250.0	
28 2-Methyl-2-propanol	59	4.602	4.602	0.000	99	246222	250.0	272.5	
29 Acrylonitrile	53	4.795	4.795	0.000	100	441512	125.0	128.0	
31 Methyl tert-butyl ether	73	4.860	4.860	0.000	97	968983	50.0	50.8	
32 trans-1,2-Dichloroethene	96	4.863	4.863	0.000	97	300676	50.0	50.6	
33 Hexane	57	5.287	5.287	0.000	95	457305	50.0	52.4	
35 1,1-Dichloroethane	63	5.528	5.528	0.000	96	551677	50.0	50.4	
36 Isopropyl ether	45	5.583	5.583	0.000	93	1045114	50.0	51.6	
37 2-Chloro-1,3-butadiene	53	5.631	5.631	0.000	92	484364	50.0	51.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 Tert-butyl ethyl ether	59	6.110	6.110	0.000	98	1000078	50.0	50.7	
40 2-Butanone (MEK)	43	6.326	6.326	0.000	100	478711	100.0	104.9	
41 cis-1,2-Dichloroethene	96	6.352	6.352	0.000	83	325652	50.0	50.5	
42 2,2-Dichloropropane	77	6.364	6.364	0.000	89	457897	50.0	50.5	
44 Propionitrile	54	6.416	6.416	0.000	99	343242	250.0	264.1	
45 Methacrylonitrile	67	6.631	6.631	0.000	93	475775	125.0	133.6	
46 Chlorobromomethane	128	6.680	6.680	0.000	94	163343	50.0	50.0	
47 Tetrahydrofuran	71	6.689	6.689	0.000	94	305437	250.0	259.9	
48 Chloroform	83	6.831	6.831	0.000	94	539485	50.0	50.3	
$ 49 Dibromofluoromethane (Surr)	113	7.040	7.040	0.000	93	288814	50.0	50.6	
50 1,1,1-Trichloroethane	97	7.053	7.053	0.000	98	475662	50.0	50.6	
51 Cyclohexane	56	7.152	7.152	0.000	93	560824	50.0	52.4	
52 Carbon tetrachloride	117	7.262	7.262	0.000	93	394340	50.0	51.4	
53 1,1-Dichloropropene	75	7.268	7.268	0.000	94	431359	50.0	51.0	
54 Isobutyl alcohol	41	7.422	7.422	0.000	94	217958	625.0	693.8	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.499	7.499	0.000	97	70680	50.0	50.4	
56 Benzene	78	7.528	7.528	0.000	97	1255110	50.0	50.7	
57 1,2-Dichloroethane	62	7.599	7.599	0.000	98	465495	50.0	50.8	
59 Tert-amyl methyl ether	73	7.715	7.715	0.000	98	970693	50.0	50.9	
* 61 Fluorobenzene (IS)	96	7.930	7.930	0.000	98	1148377	50.0	50.0	
62 n-Heptane	43	7.937	7.937	0.000	94	499236	50.0	52.4	
63 n-Butanol	56	8.287	8.287	0.000	90	172119	625.0	661.0	M
64 Trichloroethene	95	8.403	8.403	0.000	98	323145	50.0	50.9	
65 Methylcyclohexane	83	8.712	8.712	0.000	93	571182	50.0	52.9	
67 1,2-Dichloropropane	63	8.737	8.737	0.000	70	338480	50.0	50.9	
66 2-ethoxy-2-methyl butane	87	8.737	8.737	0.000	89	480451	50.0	51.7	
68 Methyl methacrylate	69	8.815	8.815	0.000	92	304586	50.0	52.7	
69 1,4-Dioxane	88	8.818	8.818	0.000	77	44036	625.0	682.6	
70 Dibromomethane	93	8.847	8.847	0.000	97	220459	50.0	51.1	
72 Dichlorobromomethane	83	9.078	9.078	0.000	99	409096	50.0	51.4	
73 2-Nitropropane	41	9.345	9.345	0.000	98	724496	250.0	271.3	
74 2-Chloroethyl vinyl ether	63	9.429	9.429	0.000	92	264537	50.0	53.7	
75 cis-1,3-Dichloropropene	75	9.609	9.609	0.000	93	544841	50.0	52.5	
77 4-Methyl-2-pentanone (MIBK)	43	9.776	9.776	0.000	98	1033367	100.0	108.2	
$ 78 Toluene-d8 (Surr)	98	9.908	9.908	0.000	94	1171108	50.0	50.1	
79 Toluene	92	9.982	9.982	0.000	98	791107	50.0	50.4	
84 trans-1,3-Dichloropropene	75	10.229	10.229	0.000	96	510255	50.0	52.6	
85 Ethyl methacrylate	69	10.287	10.287	0.000	91	539732	50.0	53.7	
86 1,1,2-Trichloroethane	97	10.432	10.432	0.000	91	306654	50.0	51.3	
87 Tetrachloroethene	166	10.519	10.519	0.000	96	324114	50.0	50.5	
88 1,3-Dichloropropane	76	10.593	10.593	0.000	94	518532	50.0	50.7	
90 2-Hexanone	43	10.641	10.641	0.000	98	760634	100.0	109.8	
92 Chlorodibromomethane	129	10.802	10.802	0.000	90	332707	50.0	52.9	
93 Ethylene Dibromide	107	10.914	10.914	0.000	99	340332	50.0	51.7	
* 95 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	87	905316	50.0	50.0	
96 1-Chlorohexane	91	11.345	11.345	0.000	98	430364	50.0	49.5	
97 Chlorobenzene	112	11.364	11.364	0.000	94	866463	50.0	50.5	
98 1,1,1,2-Tetrachloroethane	131	11.445	11.445	0.000	95	310205	50.0	51.9	
99 Ethylbenzene	91	11.448	11.448	0.000	99	1555470	50.0	50.9	
100 m-Xylene & p-Xylene	106	11.560	11.560	0.000	99	1185258	100.0	101.9	
101 o-Xylene	106	11.888	11.888	0.000	96	591082	50.0	50.9	
102 Styrene	104	11.904	11.904	0.000	94	1014673	50.0	52.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 Bromoform	173	12.059	12.059	0.000	96	251203	50.0	54.5	
104 Isopropylbenzene	105	12.184	12.184	0.000	96	1528627	50.0	51.5	
106 Cyclohexanone	55	12.265	12.265	0.000	95	199586	625.0	661.3	
$ 107 4-Bromofluorobenzene (Surr)	95	12.329	12.329	0.000	88	443679	50.0	50.1	
108 1,1,2,2-Tetrachloroethane	83	12.429	12.429	0.000	94	511781	50.0	51.1	
109 Bromobenzene	156	12.448	12.448	0.000	96	377851	50.0	50.5	
110 trans-1,4-Dichloro-2-butene	53	12.451	12.451	0.000	94	438248	125.0	134.5	
111 1,2,3-Trichloropropane	110	12.474	12.474	0.000	88	149382	50.0	50.7	
112 N-Propylbenzene	91	12.512	12.512	0.000	99	1822893	50.0	51.2	
113 2-Chlorotoluene	126	12.589	12.589	0.000	96	355510	50.0	50.7	
114 1,3,5-Trimethylbenzene	105	12.647	12.647	0.000	94	1303867	50.0	51.5	
115 4-Chlorotoluene	126	12.683	12.683	0.000	98	366477	50.0	50.7	
117 tert-Butylbenzene	134	12.888	12.888	0.000	94	256060	50.0	51.9	
119 1,2,4-Trimethylbenzene	105	12.930	12.930	0.000	98	1345320	50.0	51.5	
120 sec-Butylbenzene	105	13.049	13.049	0.000	95	1596623	50.0	52.2	
121 1,3-Dichlorobenzene	146	13.152	13.152	0.000	98	720106	50.0	50.3	
122 4-Isopropyltoluene	119	13.155	13.155	0.000	97	1390961	50.0	52.1	
* 123 1,4-Dichlorobenzene-d4	152	13.207	13.207	0.000	95	483197	50.0	50.0	
124 1,4-Dichlorobenzene	146	13.223	13.223	0.000	94	732425	50.0	50.1	
125 1,2,3-Trimethylbenzene	105	13.232	13.232	0.000	99	1360068	50.0	51.1	
126 Benzyl chloride	91	13.300	13.300	0.000	99	1059038	50.0	54.0	
127 1,3-Diethylbenzene	119	13.355	13.355	0.000	95	822120	50.0	51.5	
128 p-Diethylbenzene	119	13.425	13.425	0.000	95	857026	50.0	52.1	
129 n-Butylbenzene	92	13.448	13.448	0.000	98	705870	50.0	52.1	
130 1,2-Dichlorobenzene	146	13.483	13.483	0.000	97	711904	50.0	50.4	
131 o-diethylbenzene	119	13.499	13.499	0.000	96	691183	50.0	51.9	
133 1,2-Dibromo-3-Chloropropane	75	14.023	14.023	0.000	83	124105	50.0	52.6	
134 1,3,5-Trichlorobenzene	180	14.149	14.149	0.000	97	529870	50.0	50.8	
135 1,2,4-Trichlorobenzene	180	14.570	14.570	0.000	94	518331	50.0	50.8	
136 Hexachlorobutadiene	225	14.654	14.654	0.000	98	221180	50.0	51.9	
137 Naphthalene	128	14.753	14.753	0.000	97	1747295	50.0	52.3	
138 1,2,3-Trichlorobenzene	180	14.898	14.898	0.000	96	500896	50.0	51.0	
139 2-Methylnaphthalene	142	15.541	15.541	0.000	92	962897	50.0	54.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00039	Amount Added:	5.00	Units: uL	
MSV_VCYC_00007	Amount Added:	10.00	Units: uL	
MSV_CCV_GASES_00111	Amount Added:	2.50	Units: uL	
MSV_CCV_VOC#3_00038	Amount Added:	4.00	Units: uL	
MSV_CCV_2CEVE_00036	Amount Added:	5.00	Units: uL	
MSV_V_EE_00006	Amount Added:	5.00	Units: uL	
MSV_HP23_ISSS_00007	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 29-Nov-2021 23:41:03 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X15.D

Injection Date: 29-Nov-2021 17:16:30 Instrument ID: 9915 Operator ID: kas02648

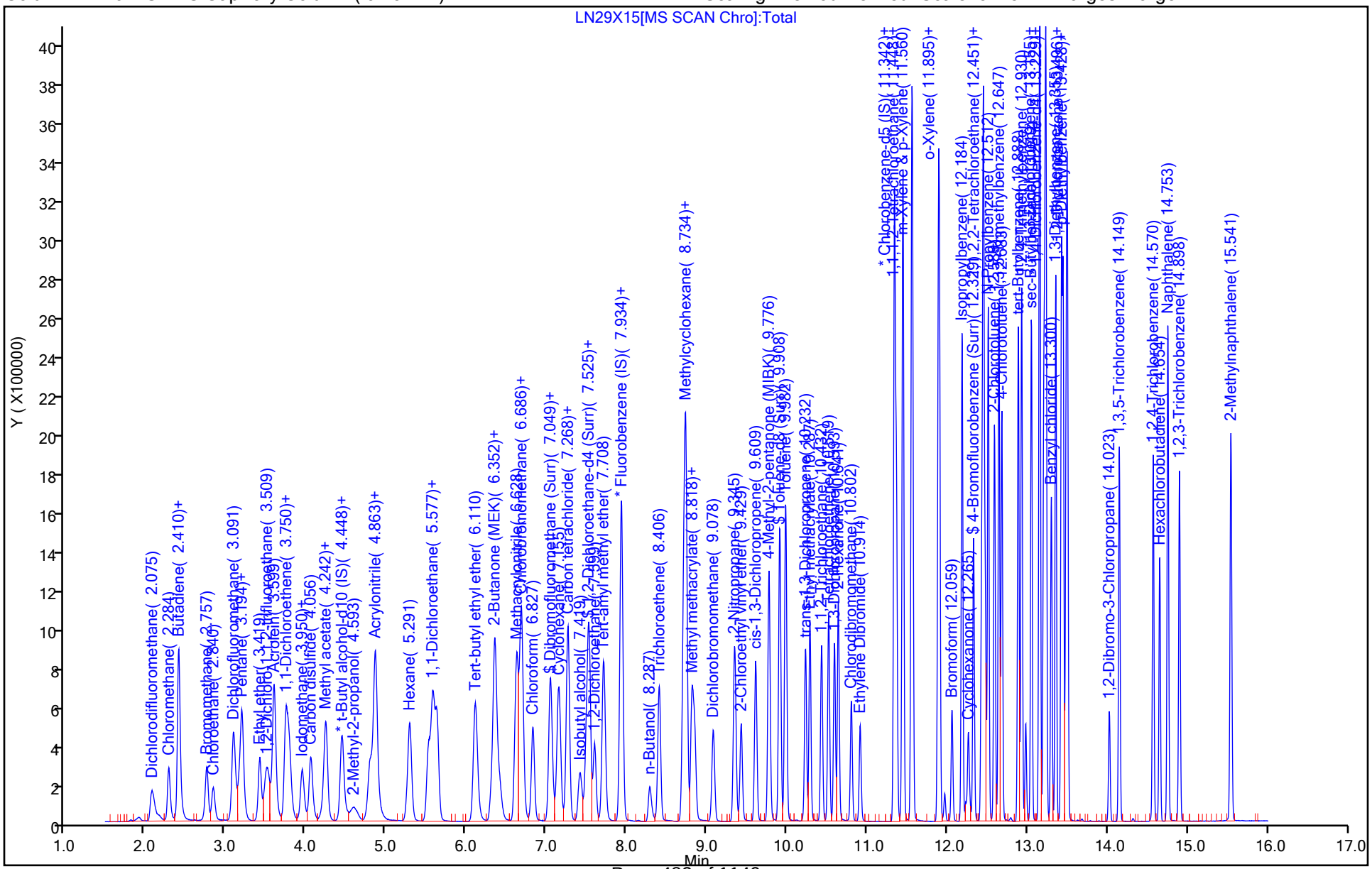
Lims ID: ICIS v50 Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 15

Method: MSVoa_9915a 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

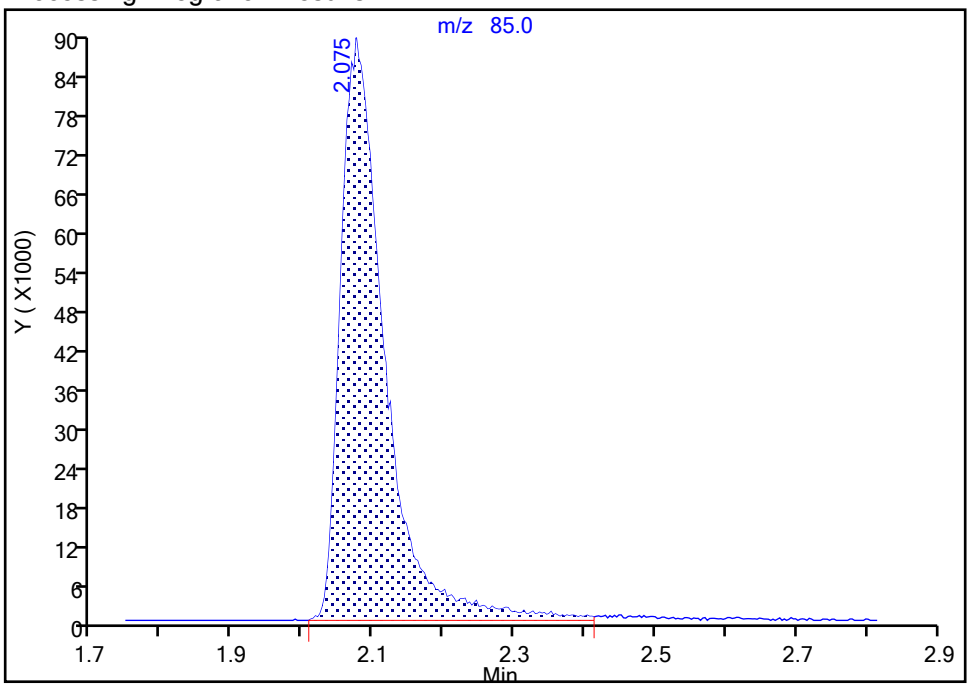
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X15.D
Injection Date: 29-Nov-2021 17:16:30 Instrument ID: 9915
Lims ID: ICIS v50
Client ID:
Operator ID: kas02648 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

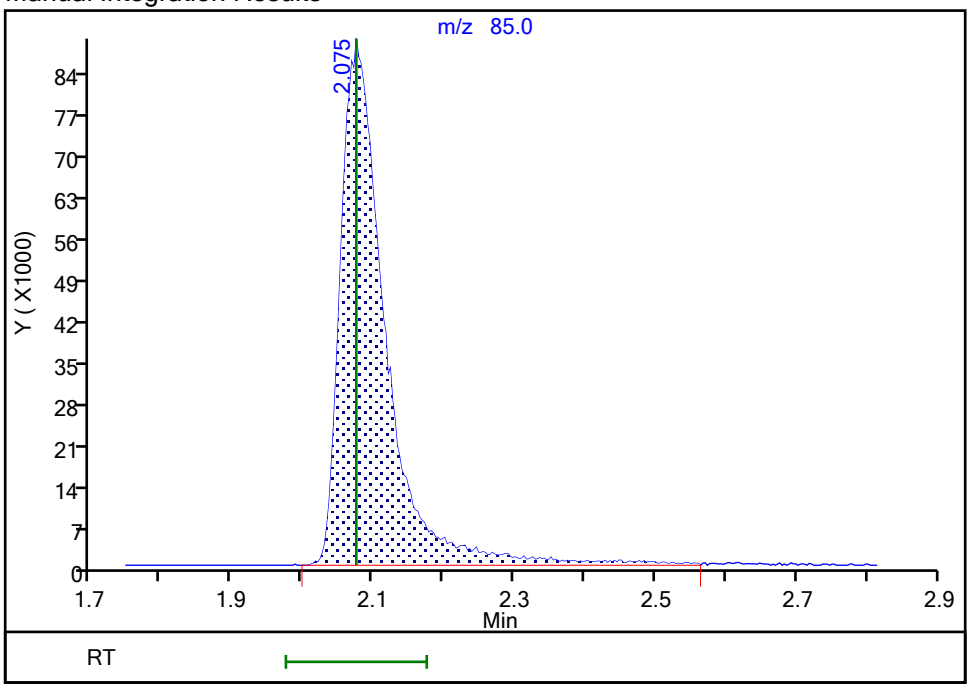
Processing Integration Results

RT: 2.08
Area: 386276
Amount: 53.897749
Amount Units: ug/l



Manual Integration Results

RT: 2.08
Area: 390634
Amount: 53.948473
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 22:59:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

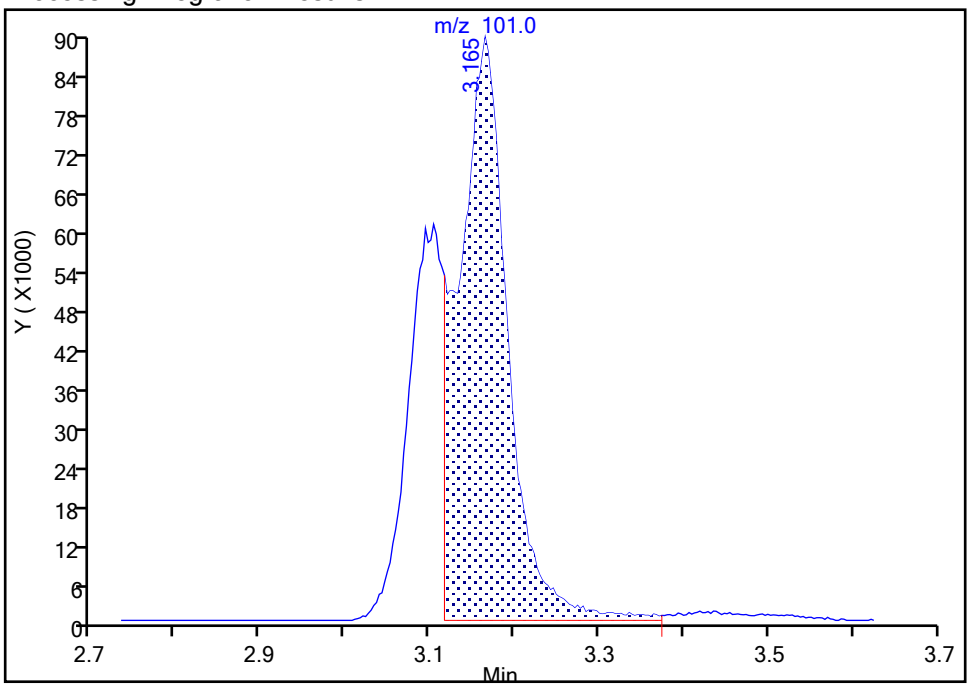
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X15.D
Injection Date: 29-Nov-2021 17:16:30 Instrument ID: 9915
Lims ID: ICIS v50
Client ID:
Operator ID: kas02648 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

11 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

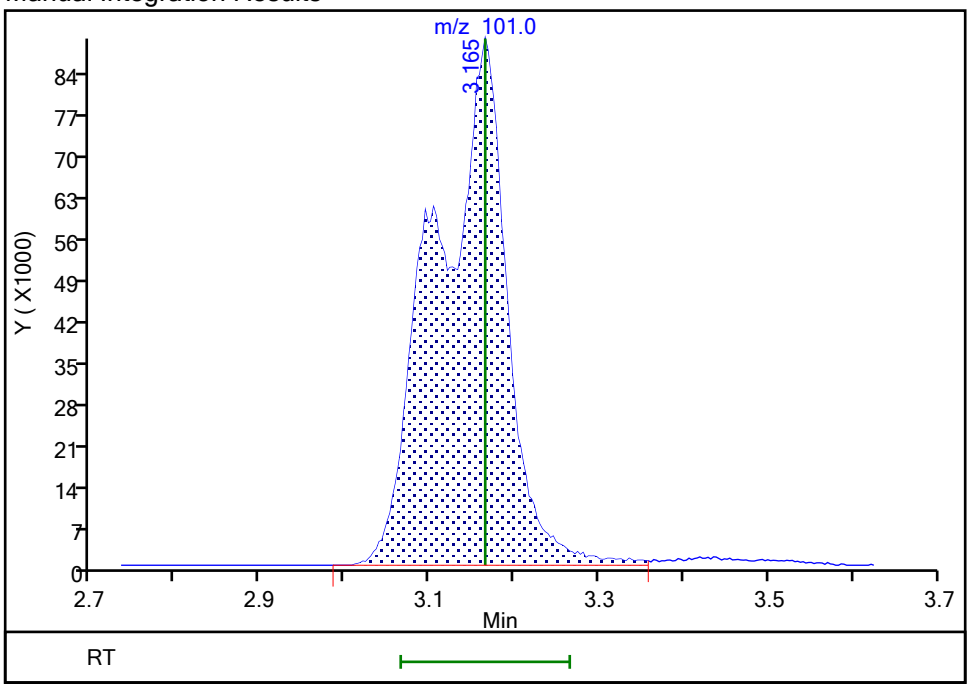
Processing Integration Results

RT: 3.17
Area: 363718
Amount: 40.504884
Amount Units: ug/l



Manual Integration Results

RT: 3.17
Area: 526540
Amount: 53.150174
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 22:59:41
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

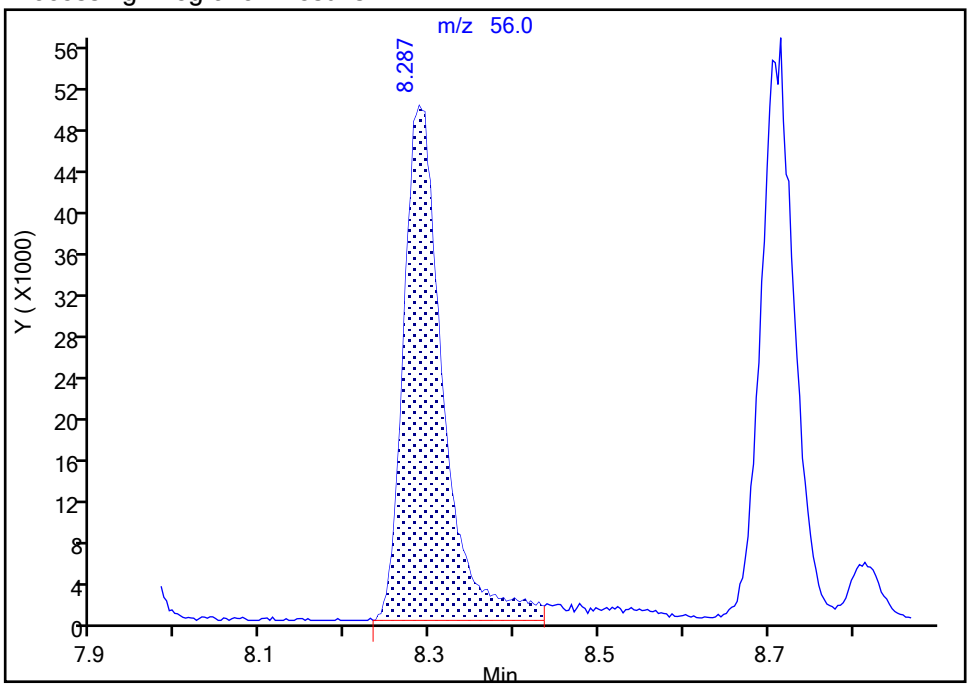
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X15.D
Injection Date: 29-Nov-2021 17:16:30 Instrument ID: 9915
Lims ID: ICIS v50
Client ID:
Operator ID: kas02648 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

63 n-Butanol, CAS: 71-36-3

Signal: 1

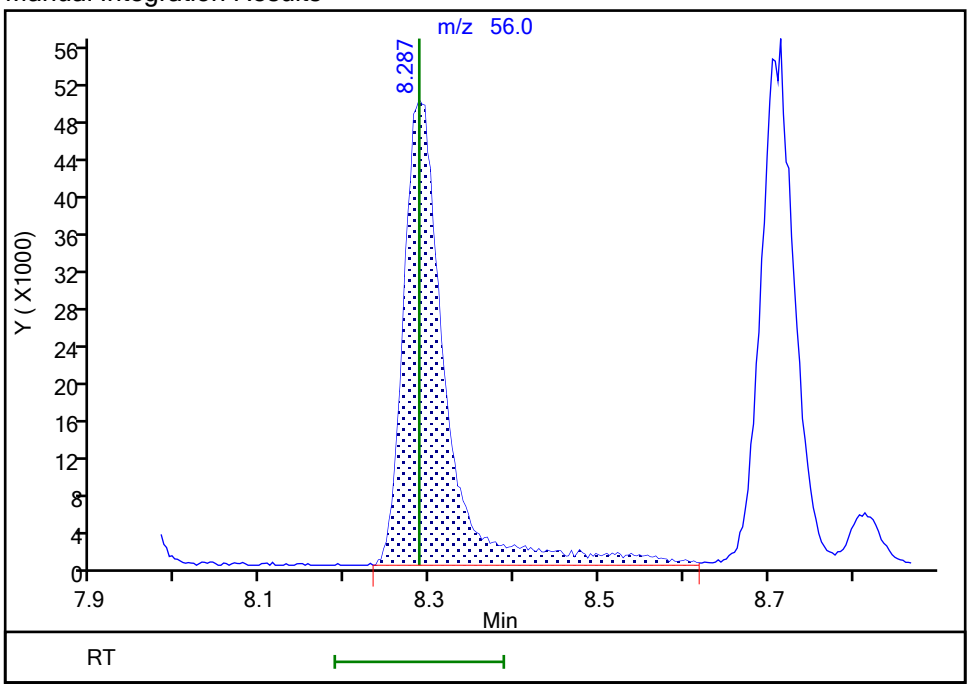
Processing Integration Results

RT: 8.29
Area: 161587
Amount: 627.0826
Amount Units: ug/l



Manual Integration Results

RT: 8.29
Area: 172119
Amount: 661.0338
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:18:00
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X16.D
Lims ID: IC v100
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 29-Nov-2021 17:38:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045073-016
Misc. Info.: IC
Operator ID: kas02648 Instrument ID: 9915
Sublist: chrom-MSVoa_9915a*sub45

Method: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 29-Nov-2021 23:41:07 Calib Date: 29-Nov-2021 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: campbellme Date: 29-Nov-2021 23:01:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.082	2.075	0.007	99	796081	100.0	111.4	M
4 Chloromethane	50	2.284	2.284	0.000	99	877473	100.0	106.9	
5 Butadiene	39	2.410	2.403	0.007	95	897770	100.0	105.3	
6 Vinyl chloride	62	2.413	2.410	0.003	97	906405	100.0	110.5	
8 Bromomethane	94	2.760	2.757	0.003	90	598812	100.0	108.5	
9 Chloroethane	64	2.841	2.840	0.001	100	493056	100.0	108.9	
10 Dichlorofluoromethane	67	3.091	3.091	0.000	97	1170015	100.0	107.3	
11 Trichlorofluoromethane	101	3.168	3.165	0.003	99	1070431	100.0	109.5	M
12 Pentane	43	3.201	3.197	0.004	97	1076911	100.0	105.2	
14 Ethyl ether	59	3.422	3.419	0.003	94	583515	100.0	107.3	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.509	3.509	0.000	96	753014	100.0	108.1	
16 Acrolein	56	3.596	3.599	-0.003	99	2179685	1002.2	1130.3	
17 1,1-Dichloroethene	96	3.744	3.744	0.000	97	547417	100.0	106.9	
18 Acetone	58	3.776	3.779	-0.003	99	172742	200.0	213.4	
19 112TCTFE	101	3.789	3.786	0.003	92	547961	100.0	109.4	
20 Iodomethane	142	3.950	3.950	0.000	98	941087	100.0	106.0	
21 Isopropyl alcohol	45	3.959	3.956	0.003	39	274260	500.0	567.6	
22 Carbon disulfide	76	4.059	4.053	0.006	100	1744562	100.0	110.3	
24 Methyl acetate	43	4.220	4.220	0.000	99	712639	100.0	104.0	
25 3-Chloro-1-propene	41	4.249	4.249	0.000	90	1022069	100.0	106.3	
26 Methylene Chloride	84	4.442	4.445	-0.003	95	636778	100.0	105.7	
* 27 t-Butyl alcohol-d10 (IS)	65	4.461	4.464	-0.003	53	231371	250.0	250.0	M
28 2-Methyl-2-propanol	59	4.596	4.602	-0.006	99	503297	500.0	567.3	
29 Acrylonitrile	53	4.795	4.795	0.000	99	910176	250.0	267.3	
31 Methyl tert-butyl ether	73	4.860	4.860	0.000	96	1984997	100.0	105.5	
32 trans-1,2-Dichloroethene	96	4.866	4.863	0.003	98	617403	100.0	105.2	
33 Hexane	57	5.291	5.287	0.004	95	954176	100.0	110.8	
35 1,1-Dichloroethane	63	5.525	5.528	-0.003	96	1136311	100.0	105.3	
36 Isopropyl ether	45	5.580	5.583	-0.003	95	2144122	100.0	107.3	
37 2-Chloro-1,3-butadiene	53	5.631	5.631	0.000	94	1010571	100.0	107.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 Tert-butyl ethyl ether	59	6.110	6.110	0.000	98	2039204	100.0	104.8	
S 39 1,2-Dichloroethene, Total	100				0			211.1	
40 2-Butanone (MEK)	43	6.319	6.326	-0.007	100	976938	200.0	216.9	
41 cis-1,2-Dichloroethene	96	6.355	6.352	0.003	87	674122	100.0	105.9	
42 2,2-Dichloropropane	77	6.364	6.364	0.000	90	944359	100.0	105.6	
44 Propionitrile	54	6.410	6.416	-0.006	99	721890	500.0	565.5	
45 Methacrylonitrile	67	6.625	6.631	-0.006	94	983228	250.0	279.7	
46 Chlorobromomethane	128	6.680	6.680	0.000	79	334000	100.0	103.7	
47 Tetrahydrofuran	71	6.692	6.689	0.003	91	627002	500.0	543.4	
48 Chloroform	83	6.831	6.831	0.000	94	1109809	100.0	104.8	
$ 49 Dibromofluoromethane (Surr)	113	7.040	7.040	0.000	93	280062	50.0	49.7	
50 1,1,1-Trichloroethane	97	7.056	7.053	0.003	99	992189	100.0	106.9	
51 Cyclohexane	56	7.152	7.152	0.000	93	1162484	100.0	110.1	
52 Carbon tetrachloride	117	7.262	7.262	0.000	96	829672	100.0	109.5	
53 1,1-Dichloropropene	75	7.268	7.268	0.000	95	888368	100.0	106.3	
54 Isobutyl alcohol	41	7.419	7.422	-0.003	94	448597	1250.0	1454.1	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.496	7.499	-0.003	96	68853	50.0	49.7	
56 Benzene	78	7.532	7.528	0.004	97	2585591	100.0	105.9	
57 1,2-Dichloroethane	62	7.599	7.599	0.000	97	926106	100.0	102.4	
59 Tert-amyl methyl ether	73	7.712	7.715	-0.003	97	1989332	100.0	105.7	
* 61 Fluorobenzene (IS)	96	7.930	7.930	0.000	99	1133604	50.0	50.0	
62 n-Heptane	43	7.937	7.937	0.000	94	1012385	100.0	107.7	
63 n-Butanol	56	8.290	8.287	0.003	91	357195	1250.0	1338.4	
64 Trichloroethene	95	8.406	8.403	0.003	98	670062	100.0	106.9	
65 Methylcyclohexane	83	8.712	8.712	0.000	93	1177574	100.0	110.4	
67 1,2-Dichloropropane	63	8.737	8.737	0.000	77	698048	100.0	106.3	
66 2-ethoxy-2-methyl butane	87	8.741	8.737	0.004	90	995530	100.0	108.6	
68 Methyl methacrylate	69	8.815	8.815	0.001	93	619134	100.0	108.6	
69 1,4-Dioxane	88	8.824	8.818	0.006	53	89190	1250.0	1407.9	M
70 Dibromomethane	93	8.850	8.847	0.003	97	452906	100.0	106.4	
72 Dichlorobromomethane	83	9.081	9.078	0.003	99	856213	100.0	109.0	
73 2-Nitropropane	41	9.348	9.345	0.003	98	1487698	500.0	567.4	
74 2-Chloroethyl vinyl ether	63	9.429	9.429	0.000	92	542197	100.0	111.5	
75 cis-1,3-Dichloropropene	75	9.612	9.609	0.003	94	1125114	100.0	109.8	
77 4-Methyl-2-pentanone (MIBK)	43	9.776	9.776	0.000	98	2091242	200.0	221.8	
$ 78 Toluene-d8 (Surr)	98	9.911	9.908	0.003	94	1143200	50.0	49.9	
79 Toluene	92	9.985	9.982	0.003	98	1632859	100.0	106.2	
S 83 1,3-Dichloropropene, Total	100				0			221.3	
84 trans-1,3-Dichloropropene	75	10.233	10.229	0.003	96	1061132	100.0	111.5	
85 Ethyl methacrylate	69	10.287	10.287	0.000	91	1112028	100.0	112.8	
86 1,1,2-Trichloroethane	97	10.432	10.432	0.000	91	625637	100.0	106.7	
87 Tetrachloroethene	166	10.522	10.519	0.003	96	667477	100.0	106.2	
88 1,3-Dichloropropane	76	10.593	10.593	0.000	94	1061646	100.0	106.0	
90 2-Hexanone	43	10.641	10.641	0.000	98	1516575	200.0	223.5	
92 Chlorodibromomethane	129	10.805	10.802	0.003	90	696643	100.0	113.0	
93 Ethylene Dibromide	107	10.914	10.914	0.000	98	698235	100.0	108.3	
S 94 Xylenes, Total	106				0			322.7	
* 95 Chlorobenzene-d5 (IS)	117	11.342	11.339	0.003	87	887175	50.0	50.0	
96 1-Chlorohexane	91	11.345	11.345	0.000	97	903697	100.0	106.1	
97 Chlorobenzene	112	11.368	11.364	0.004	93	1777210	100.0	105.7	
98 1,1,1,2-Tetrachloroethane	131	11.445	11.445	0.000	95	647638	100.0	110.5	
99 Ethylbenzene	91	11.451	11.448	0.003	99	3221647	100.0	107.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 m-Xylene & p-Xylene	106	11.564	11.560	0.004	99	2448554	200.0	214.9	
101 o-Xylene	106	11.888	11.888	0.000	97	1225975	100.0	107.8	
102 Styrene	104	11.904	11.904	0.000	94	2090776	100.0	109.9	
103 Bromoform	173	12.062	12.059	0.003	96	531030	100.0	117.5	
104 Isopropylbenzene	105	12.187	12.184	0.003	96	3169446	100.0	109.0	
106 Cyclohexanone	55	12.265	12.265	0.000	95	413928	1250.0	1396.6	
$ 107 4-Bromofluorobenzene (Surr)	95	12.329	12.329	0.000	88	432693	50.0	49.8	
108 1,1,2,2-Tetrachloroethane	83	12.429	12.429	0.001	93	1046877	100.0	109.0	
109 Bromobenzene	156	12.448	12.448	0.000	97	773059	100.0	107.7	
110 trans-1,4-Dichloro-2-butene	53	12.454	12.451	0.003	90	902555	250.0	288.7	
111 1,2,3-Trichloropropane	110	12.474	12.474	0.000	85	300655	100.0	106.3	
112 N-Propylbenzene	91	12.512	12.512	0.000	99	3757112	100.0	110.0	
113 2-Chlorotoluene	126	12.593	12.589	0.004	96	731967	100.0	108.8	
114 1,3,5-Trimethylbenzene	105	12.644	12.647	-0.003	94	2694801	100.0	110.8	
115 4-Chlorotoluene	126	12.683	12.683	0.000	98	751343	100.0	108.4	
117 tert-Butylbenzene	134	12.888	12.888	0.000	94	532256	100.0	112.4	
119 1,2,4-Trimethylbenzene	105	12.930	12.930	0.000	98	2759225	100.0	110.0	
120 sec-Butylbenzene	105	13.052	13.049	0.003	94	3287165	100.0	111.9	
121 1,3-Dichlorobenzene	146	13.152	13.152	0.000	98	1473920	100.0	107.3	
122 4-Isopropyltoluene	119	13.155	13.155	0.000	97	2876532	100.0	112.3	
* 123 1,4-Dichlorobenzene-d4	152	13.207	13.207	0.000	94	463752	50.0	50.0	
124 1,4-Dichlorobenzene	146	13.223	13.223	0.000	95	1491298	100.0	106.3	
125 1,2,3-Trimethylbenzene	105	13.232	13.232	0.000	99	2808321	100.0	109.9	
126 Benzyl chloride	91	13.300	13.300	0.000	99	2193724	100.0	116.6	
127 1,3-Diethylbenzene	119	13.355	13.355	0.000	95	1688163	100.0	110.2	
128 p-Diethylbenzene	119	13.425	13.425	0.000	94	1751410	100.0	110.9	
129 n-Butylbenzene	92	13.448	13.448	0.000	98	1445521	100.0	111.2	
130 1,2-Dichlorobenzene	146	13.483	13.483	0.000	97	1436555	100.0	106.0	
131 o-diethylbenzene	119	13.499	13.499	0.000	96	1411049	100.0	110.3	
133 1,2-Dibromo-3-Chloropropane	75	14.023	14.023	0.000	85	256102	100.0	113.0	
134 1,3,5-Trichlorobenzene	180	14.149	14.149	0.000	97	1096690	100.0	109.5	
135 1,2,4-Trichlorobenzene	180	14.573	14.570	0.003	94	1058952	100.0	108.2	
136 Hexachlorobutadiene	225	14.654	14.654	0.000	98	455117	100.0	111.3	
137 Naphthalene	128	14.753	14.753	0.000	97	3532737	100.0	110.2	
138 1,2,3-Trichlorobenzene	180	14.898	14.898	0.000	96	1013044	100.0	107.4	
139 2-Methylnaphthalene	142	15.541	15.541	0.000	93	1880356	100.0	111.6	
S 145 Total Diethylbenzene	1				0			331.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00039	Amount Added:	5.00	Units: uL	
MSV_VCYC_00007	Amount Added:	10.00	Units: uL	
MSV_CCV_GASES_00111	Amount Added:	2.50	Units: uL	
MSV_CCV_VOC#3_00038	Amount Added:	4.00	Units: uL	
MSV_CCV_2CEVE_00036	Amount Added:	5.00	Units: uL	
MSV_V_EE_00006	Amount Added:	5.00	Units: uL	
MSV_HP23_ISSS_00007	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 29-Nov-2021 23:41:08 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X16.D

Injection Date: 29-Nov-2021 17:38:30 Instrument ID: 9915 Operator ID: kas02648

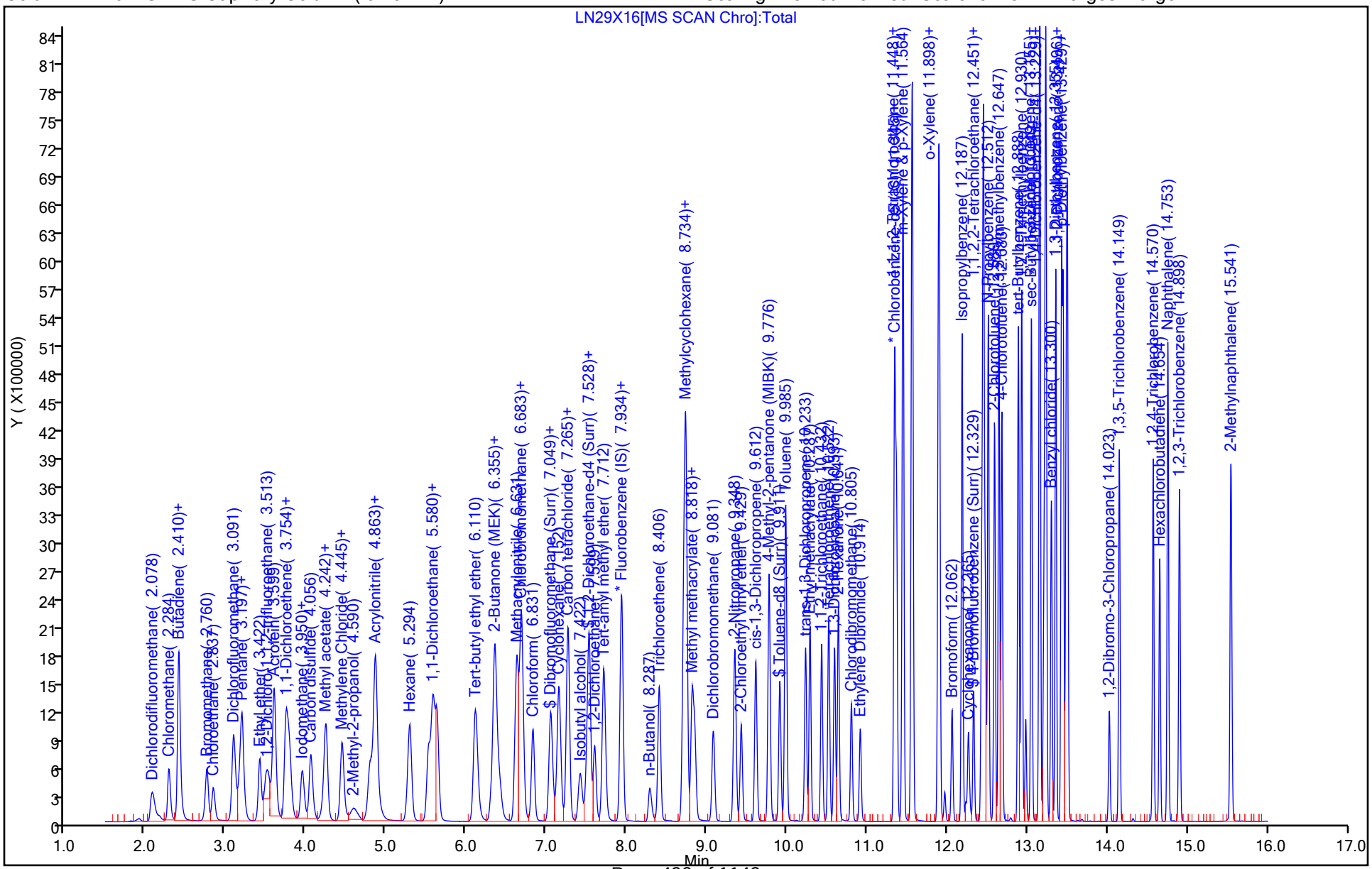
Lims ID: IC v100 Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 16

Method: MSVoa_9915a 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

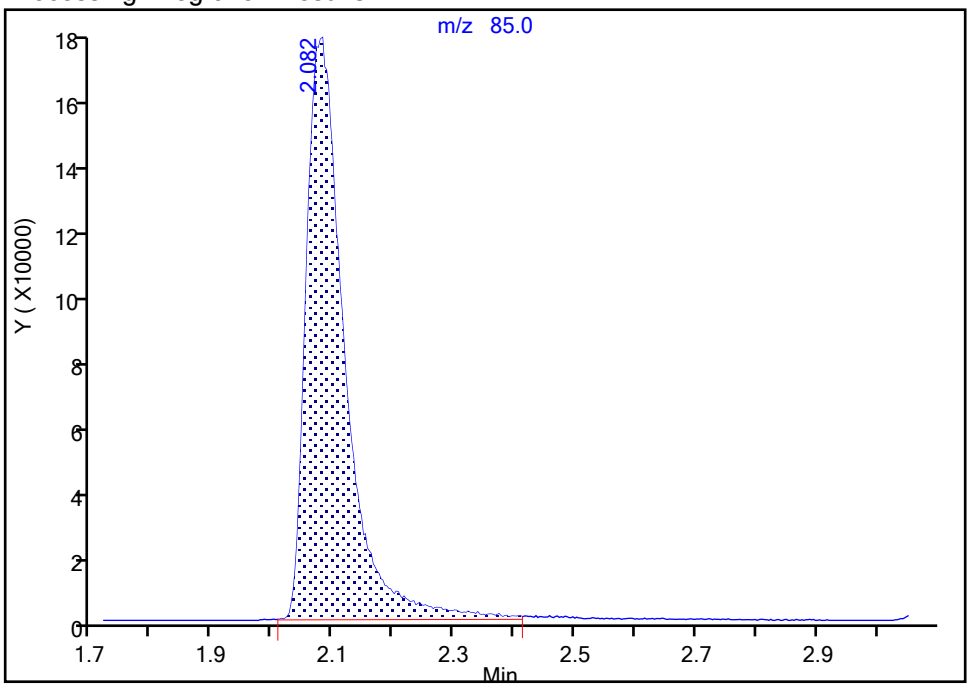
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X16.D
Injection Date: 29-Nov-2021 17:38:30 Instrument ID: 9915
Lims ID: IC v100
Client ID:
Operator ID: kas02648 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

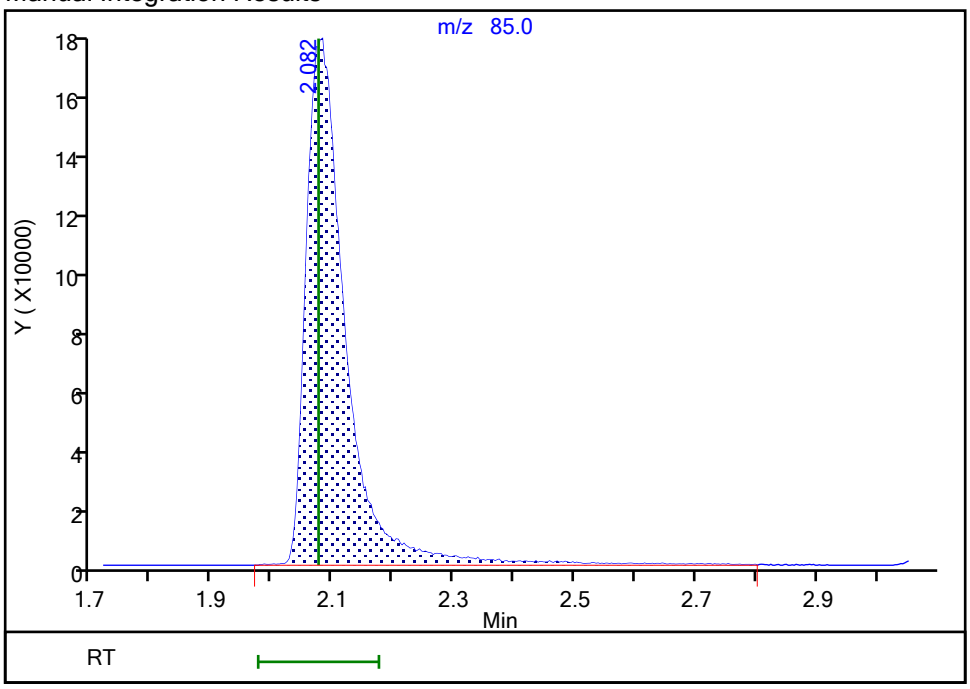
Processing Integration Results

RT: 2.08
Area: 776691
Amount: 109.5949
Amount Units: ug/l



Manual Integration Results

RT: 2.08
Area: 796081
Amount: 111.3755
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:00:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

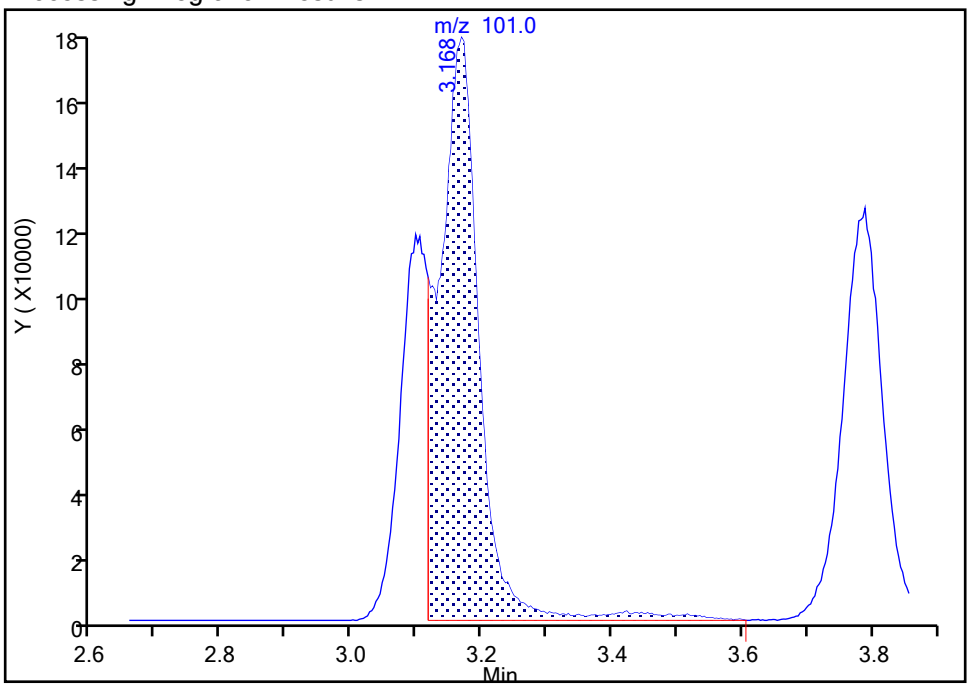
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X16.D
Injection Date: 29-Nov-2021 17:38:30 Instrument ID: 9915
Lims ID: IC v100
Client ID:
Operator ID: kas02648 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

11 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

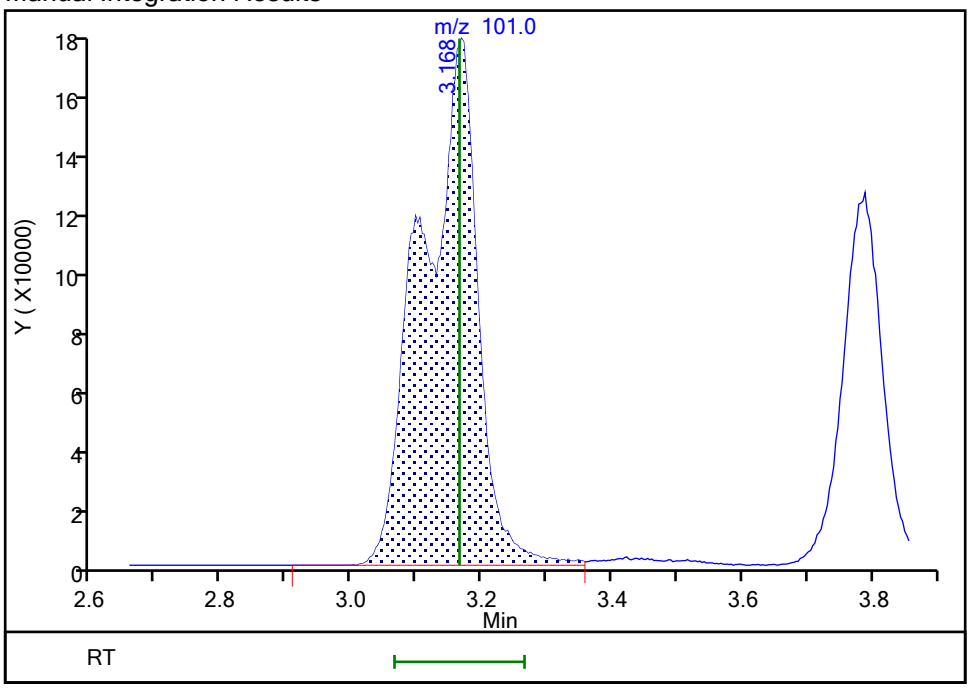
Processing Integration Results

RT: 3.17
Area: 770585
Amount: 82.407982
Amount Units: ug/l



Manual Integration Results

RT: 3.17
Area: 1070431
Amount: 109.4599
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:00:54
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

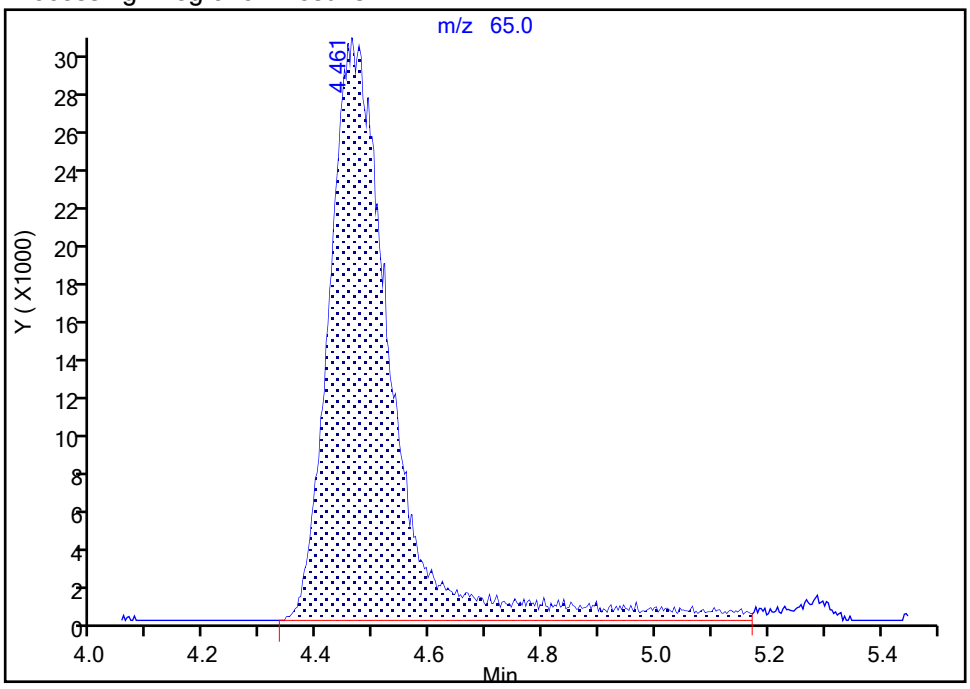
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X16.D
Injection Date: 29-Nov-2021 17:38:30 Instrument ID: 9915
Lims ID: IC v100
Client ID:
Operator ID: kas02648 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 27 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

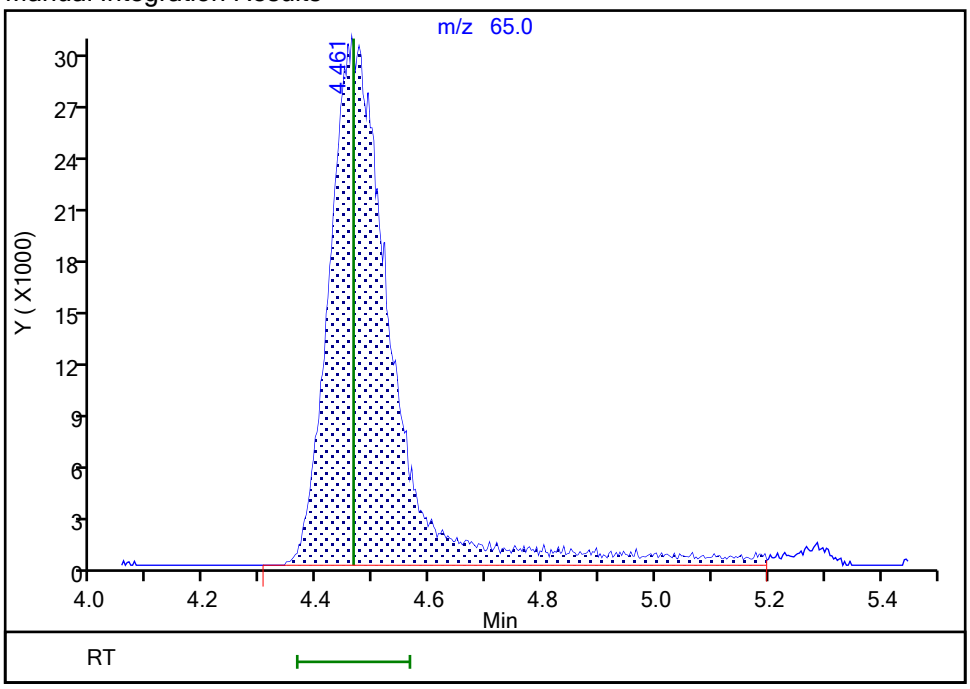
Processing Integration Results

RT: 4.46
Area: 230580
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 4.46
Area: 231371
Amount: 250.0000
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:23:59
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

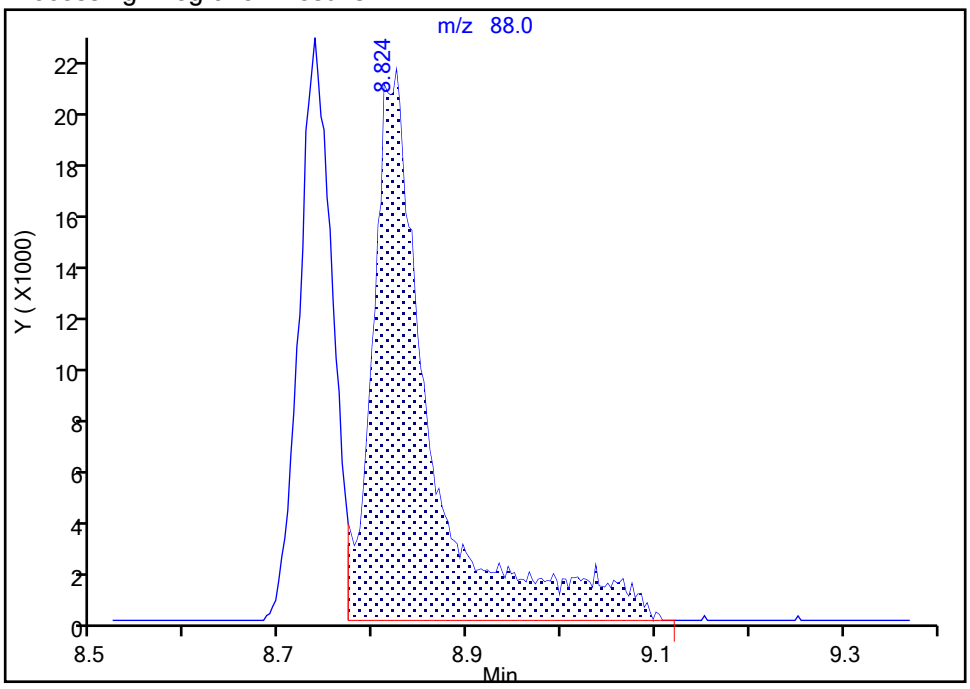
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X16.D
Injection Date: 29-Nov-2021 17:38:30 Instrument ID: 9915
Lims ID: IC v100
Client ID:
Operator ID: kas02648 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

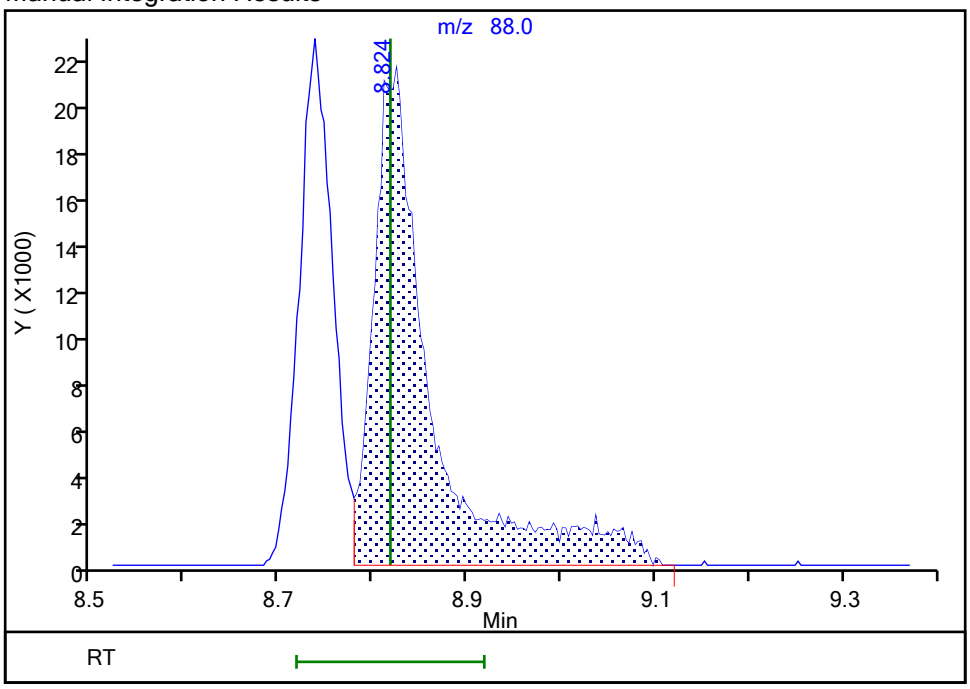
Processing Integration Results

RT: 8.82
Area: 90537
Amount: 1334.0323
Amount Units: ug/l



Manual Integration Results

RT: 8.82
Area: 89190
Amount: 1407.8554
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:01:33
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D
Lims ID: IC v300
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 29-Nov-2021 18:00:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045073-017
Misc. Info.: IC
Operator ID: kas02648 Instrument ID: 9915
Sublist: chrom-MSVoa_9915a*sub45

Method: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 29-Nov-2021 23:41:13 Calib Date: 29-Nov-2021 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: campbellme Date: 29-Nov-2021 23:03:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.075	2.075	0.000	99	2396109	300.0	307.1	M
4 Chloromethane	50	2.288	2.284	0.004	99	2632003	300.0	293.7	
5 Butadiene	39	2.410	2.403	0.007	96	2646264	300.0	284.4	
6 Vinyl chloride	62	2.413	2.410	0.003	98	2691327	300.0	300.7	
8 Bromomethane	94	2.757	2.757	0.000	91	1770432	300.0	293.9	
9 Chloroethane	64	2.841	2.840	0.001	99	1445390	300.0	292.4	
10 Dichlorofluoromethane	67	3.095	3.091	0.004	97	3456805	300.0	290.5	
11 Trichlorofluoromethane	101	3.169	3.165	0.004	99	3187326	300.0	298.6	
12 Pentane	43	3.201	3.197	0.004	97	3403878	300.0	304.7	
14 Ethyl ether	59	3.416	3.419	-0.003	93	1824953	300.0	307.3	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.516	3.509	0.007	94	2252572	300.0	296.2	
16 Acrolein	56	3.599	3.599	0.000	99	6762752	3006.5	3148.7	
17 1,1-Dichloroethene	96	3.744	3.744	0.000	97	1681439	300.0	300.7	
18 Acetone	58	3.776	3.779	-0.003	100	551684	600.0	611.8	
19 112TCTFE	101	3.786	3.786	0.000	92	1681118	300.0	307.6	
20 Iodomethane	142	3.950	3.950	0.000	98	2849921	300.0	294.2	
21 Isopropyl alcohol	45	3.956	3.956	0.000	39	904779	1500.0	1681.3	
22 Carbon disulfide	76	4.056	4.053	0.003	99	5410702	300.0	313.5	
24 Methyl acetate	43	4.217	4.220	-0.003	98	2169647	300.0	290.0	
25 3-Chloro-1-propene	41	4.246	4.249	-0.003	90	3159776	300.0	301.0	
26 Methylene Chloride	84	4.448	4.445	0.003	94	1942501	300.0	295.5	
* 27 t-Butyl alcohol-d10 (IS)	65	4.468	4.464	0.004	62	257696	250.0	250.0	M
28 2-Methyl-2-propanol	59	4.606	4.602	0.004	99	1595501	1500.0	1614.7	
29 Acrylonitrile	53	4.795	4.795	0.000	98	2774384	750.0	746.5	
31 Methyl tert-butyl ether	73	4.860	4.860	0.000	95	6016440	300.0	293.0	
32 trans-1,2-Dichloroethene	96	4.863	4.863	0.000	97	1891377	300.0	295.4	
33 Hexane	57	5.287	5.287	0.000	95	2968941	300.0	315.8	
35 1,1-Dichloroethane	63	5.525	5.528	-0.003	96	3452675	300.0	293.0	
36 Isopropyl ether	45	5.580	5.583	-0.003	93	6483058	300.0	297.3	
37 2-Chloro-1,3-butadiene	53	5.635	5.631	0.004	93	3115595	300.0	304.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 Tert-butyl ethyl ether	59	6.117	6.110	0.007	98	6129880	300.0	288.7	
S 39 1,2-Dichloroethene, Total	100				0			593.6	
40 2-Butanone (MEK)	43	6.329	6.326	0.003	100	3058001	600.0	621.9	
41 cis-1,2-Dichloroethene	96	6.352	6.352	0.000	83	2071919	300.0	298.2	
42 2,2-Dichloropropane	77	6.368	6.364	0.004	89	2916838	300.0	298.8	
44 Propionitrile	54	6.416	6.416	0.000	99	2215523	1500.0	1558.4	
45 Methacrylonitrile	67	6.631	6.631	0.000	94	2989215	750.0	779.1	
46 Chlorobromomethane	128	6.683	6.680	0.003	92	1015089	300.0	288.7	
47 Tetrahydrofuran	71	6.693	6.689	0.003	92	1930276	1500.0	1501.9	
48 Chloroform	83	6.828	6.831	-0.003	94	3370482	300.0	291.6	
$ 49 Dibromofluoromethane (Surr)	113	7.043	7.040	0.003	95	304700	50.0	49.5	
50 1,1,1-Trichloroethane	97	7.056	7.053	0.003	99	3038607	300.0	299.9	
51 Cyclohexane	56	7.156	7.152	0.004	93	3620398	300.0	314.0	
52 Carbon tetrachloride	117	7.265	7.262	0.003	95	2576011	300.0	311.4	
53 1,1-Dichloropropene	75	7.268	7.268	0.000	95	2752522	300.0	301.8	
54 Isobutyl alcohol	41	7.426	7.422	0.004	94	1424103	3750.0	4144.4	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.500	7.499	0.001	97	74731	50.0	49.5	
56 Benzene	78	7.532	7.528	0.004	97	7876533	300.0	295.6	
57 1,2-Dichloroethane	62	7.602	7.599	0.003	98	2786092	300.0	282.3	
59 Tert-amyl methyl ether	73	7.715	7.715	0.000	97	5844256	300.0	284.5	
* 61 Fluorobenzene (IS)	96	7.930	7.930	0.000	99	1237315	50.0	50.0	
62 n-Heptane	43	7.940	7.937	0.003	94	3196886	300.0	311.6	
63 n-Butanol	56	8.294	8.287	0.007	92	1123494	3750.0	3683.7	M
64 Trichloroethene	95	8.406	8.403	0.003	98	2072086	300.0	303.0	
65 Methylcyclohexane	83	8.712	8.712	0.000	94	3718986	300.0	319.5	
67 1,2-Dichloropropane	63	8.737	8.737	0.000	92	2184334	300.0	304.7	
66 2-ethoxy-2-methyl butane	87	8.741	8.737	0.004	91	3104139	300.0	310.1	
68 Methyl methacrylate	69	8.818	8.815	0.004	93	1963979	300.0	315.5	
69 1,4-Dioxane	88	8.818	8.818	0.000	55	270119	3750.0	3828.2	M
70 Dibromomethane	93	8.850	8.847	0.003	97	1378330	300.0	296.6	
72 Dichlorobromomethane	83	9.081	9.078	0.003	99	2659740	300.0	310.2	
73 2-Nitropropane	41	9.352	9.345	0.007	98	4574297	1500.0	1566.4	
74 2-Chloroethyl vinyl ether	63	9.432	9.429	0.003	92	1667608	300.0	314.3	
75 cis-1,3-Dichloropropene	75	9.612	9.609	0.003	94	3513505	300.0	314.1	
77 4-Methyl-2-pentanone (MIBK)	43	9.776	9.776	0.000	98	6443600	600.0	626.3	
$ 78 Toluene-d8 (Surr)	98	9.911	9.908	0.003	94	1243468	50.0	48.9	
79 Toluene	92	9.985	9.982	0.003	98	4977523	300.0	291.5	
S 83 1,3-Dichloropropene, Total	100				0			626.9	
84 trans-1,3-Dichloropropene	75	10.233	10.229	0.004	95	3305481	300.0	312.8	
85 Ethyl methacrylate	69	10.287	10.287	0.000	91	3404349	300.0	310.9	
86 1,1,2-Trichloroethane	97	10.435	10.432	0.003	91	1921918	300.0	295.2	
87 Tetrachloroethene	166	10.522	10.519	0.003	96	2054327	300.0	294.2	
88 1,3-Dichloropropane	76	10.596	10.593	0.003	94	3254620	300.0	292.5	
90 2-Hexanone	43	10.644	10.641	0.003	98	4668341	600.0	619.3	
92 Chlorodibromomethane	129	10.805	10.802	0.003	90	2180092	300.0	318.4	
93 Ethylene Dibromide	107	10.917	10.914	0.003	98	2146959	300.0	299.7	
S 94 Xylenes, Total	106				0			883.9	
* 95 Chlorobenzene-d5 (IS)	117	11.342	11.339	0.003	86	985499	50.0	50.0	
96 1-Chlorohexane	91	11.345	11.345	0.000	97	2807866	300.0	296.9	
97 Chlorobenzene	112	11.368	11.364	0.004	93	5486553	300.0	293.7	
98 1,1,1,2-Tetrachloroethane	131	11.448	11.445	0.003	95	2037087	300.0	313.0	
99 Ethylbenzene	91	11.451	11.448	0.003	99	9835772	300.0	295.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 m-Xylene & p-Xylene	106	11.564	11.560	0.004	98	7442973	600.0	588.1	
101 o-Xylene	106	11.892	11.888	0.004	97	3737393	300.0	295.8	
102 Styrene	104	11.905	11.904	0.000	94	6375517	300.0	301.8	
103 Bromoform	173	12.062	12.059	0.003	96	1689510	300.0	336.7	
104 Isopropylbenzene	105	12.187	12.184	0.003	97	9434819	300.0	292.0	
106 Cyclohexanone	55	12.265	12.265	0.000	95	1276290	3750.1	3866.3	
$ 107 4-Bromofluorobenzene (Surr)	95	12.329	12.329	0.000	88	478220	50.0	49.6	
108 1,1,2,2-Tetrachloroethane	83	12.432	12.429	0.004	94	3219907	300.0	301.0	
109 Bromobenzene	156	12.448	12.448	0.000	97	2395270	300.0	299.7	
110 trans-1,4-Dichloro-2-butene	53	12.454	12.451	0.003	90	2817738	750.0	809.3	
111 1,2,3-Trichloropropane	110	12.477	12.474	0.003	85	926150	300.0	294.2	
112 N-Propylbenzene	91	12.515	12.512	0.003	99	11139410	300.0	292.9	
113 2-Chlorotoluene	126	12.593	12.589	0.004	96	2270558	300.0	303.0	
114 1,3,5-Trimethylbenzene	105	12.647	12.647	0.000	95	8156280	300.0	301.3	
115 4-Chlorotoluene	126	12.683	12.683	0.000	98	2336487	300.0	302.6	
117 tert-Butylbenzene	134	12.888	12.888	0.000	94	1636199	300.0	310.3	
119 1,2,4-Trimethylbenzene	105	12.930	12.930	0.000	98	8283157	300.0	296.7	
120 sec-Butylbenzene	105	13.052	13.049	0.003	95	9654945	300.0	295.2	
121 1,3-Dichlorobenzene	146	13.152	13.152	0.000	97	4471243	300.0	292.4	
122 4-Isopropyltoluene	119	13.158	13.155	0.003	97	8532276	300.0	299.0	
* 123 1,4-Dichlorobenzene-d4	152	13.207	13.207	0.000	92	516427	50.0	50.0	
124 1,4-Dichlorobenzene	146	13.226	13.223	0.003	92	4518258	300.0	289.1	
125 1,2,3-Trimethylbenzene	105	13.236	13.232	0.004	99	8445452	300.0	296.7	
126 Benzyl chloride	91	13.300	13.300	0.000	99	6736807	300.0	321.5	
127 1,3-Diethylbenzene	119	13.355	13.355	0.000	95	5075268	300.0	297.6	
128 p-Diethylbenzene	119	13.429	13.425	0.004	95	5266750	300.0	299.4	
129 n-Butylbenzene	92	13.448	13.448	0.000	98	4392355	300.0	303.4	
130 1,2-Dichlorobenzene	146	13.486	13.483	0.003	97	4312453	300.0	285.8	
131 o-diethylbenzene	119	13.503	13.499	0.004	96	4266845	300.0	299.6	
133 1,2-Dibromo-3-Chloropropane	75	14.023	14.023	0.000	85	778304	300.0	308.5	
134 1,3,5-Trichlorobenzene	180	14.149	14.149	0.000	98	3283306	300.0	294.3	
135 1,2,4-Trichlorobenzene	180	14.570	14.570	0.000	94	3174328	300.0	291.4	
136 Hexachlorobutadiene	225	14.654	14.654	0.000	98	1374705	300.0	301.9	
137 Naphthalene	128	14.753	14.753	0.000	98	10113405	300.0	283.3	
138 1,2,3-Trichlorobenzene	180	14.898	14.898	0.000	96	2998925	300.0	285.5	
139 2-Methylnaphthalene	142	15.541	15.541	0.000	92	5528591	300.0	294.7	
S 145 Total Diethylbenzene	1				0			896.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00039	Amount Added:	15.00	Units: uL	
MSV_VCYC_00007	Amount Added:	30.00	Units: uL	
MSV_CCV_GASES_00111	Amount Added:	7.50	Units: uL	
MSV_CCV_VOC#3_00038	Amount Added:	12.00	Units: uL	
MSV_CCV_2CEVE_00036	Amount Added:	15.00	Units: uL	
MSV_V_EE_00006	Amount Added:	15.00	Units: uL	
MSV_HP23_ISSS_00007	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 29-Nov-2021 23:41:13 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Injection Date: 29-Nov-2021 18:00:30 Instrument ID: 9915 Operator ID: kas02648

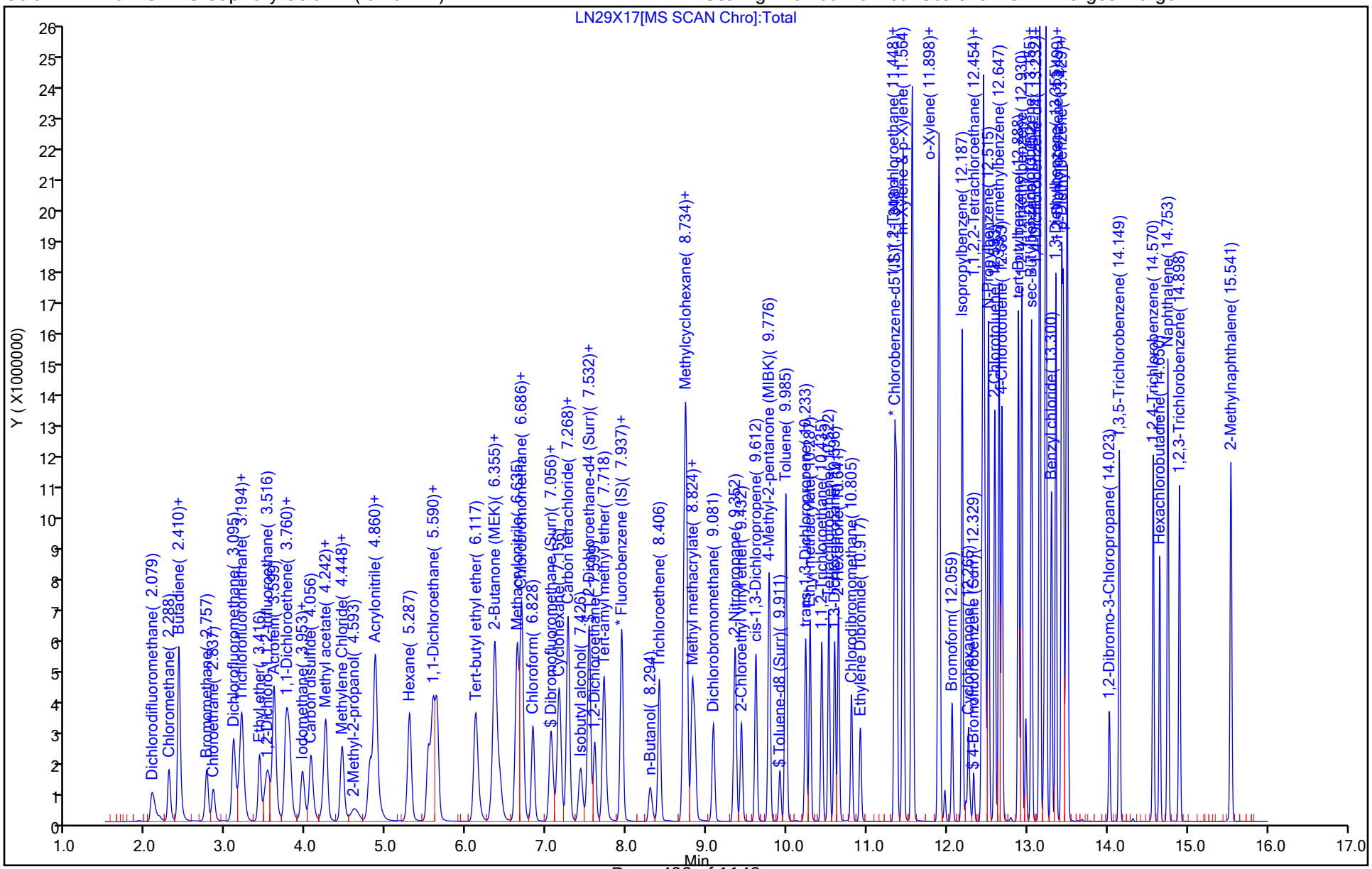
Lims ID: IC v300 Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 17

Method: MSVoa_9915a 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

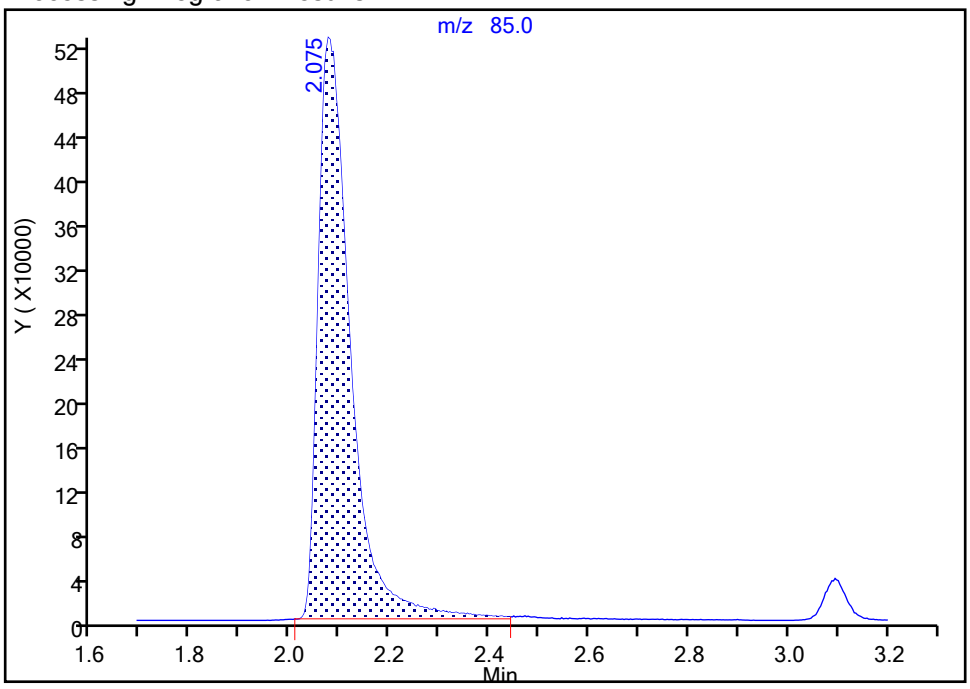
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D
Injection Date: 29-Nov-2021 18:00:30 Instrument ID: 9915
Lims ID: IC v300
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

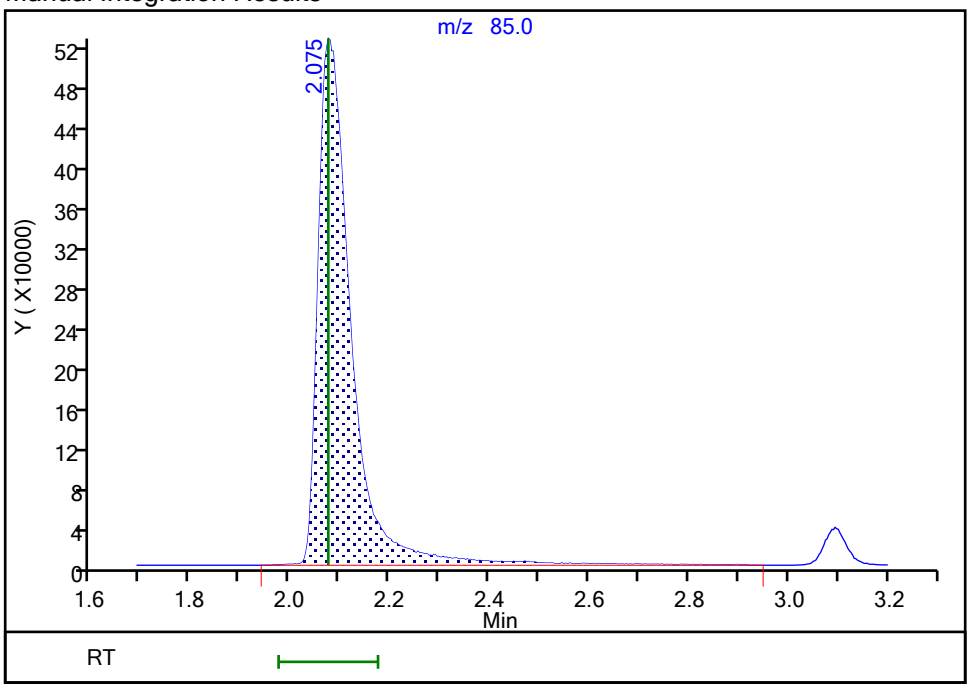
Processing Integration Results

RT: 2.08
Area: 2320243
Amount: 298.7876
Amount Units: ug/l



Manual Integration Results

RT: 2.08
Area: 2396109
Amount: 307.1283
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:02:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

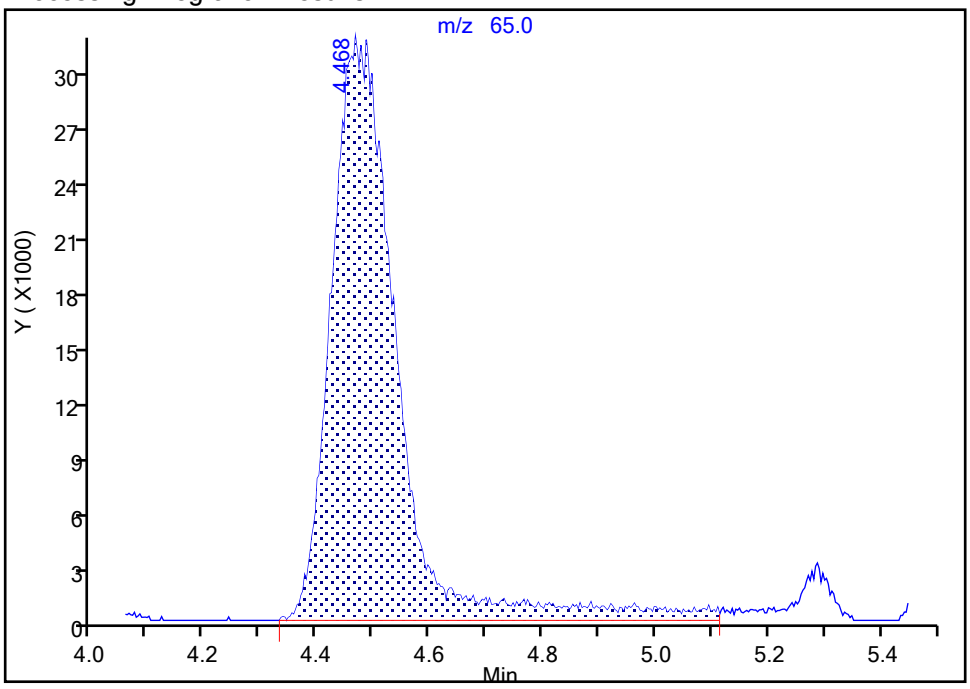
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D
Injection Date: 29-Nov-2021 18:00:30 Instrument ID: 9915
Lims ID: IC v300
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

* 27 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

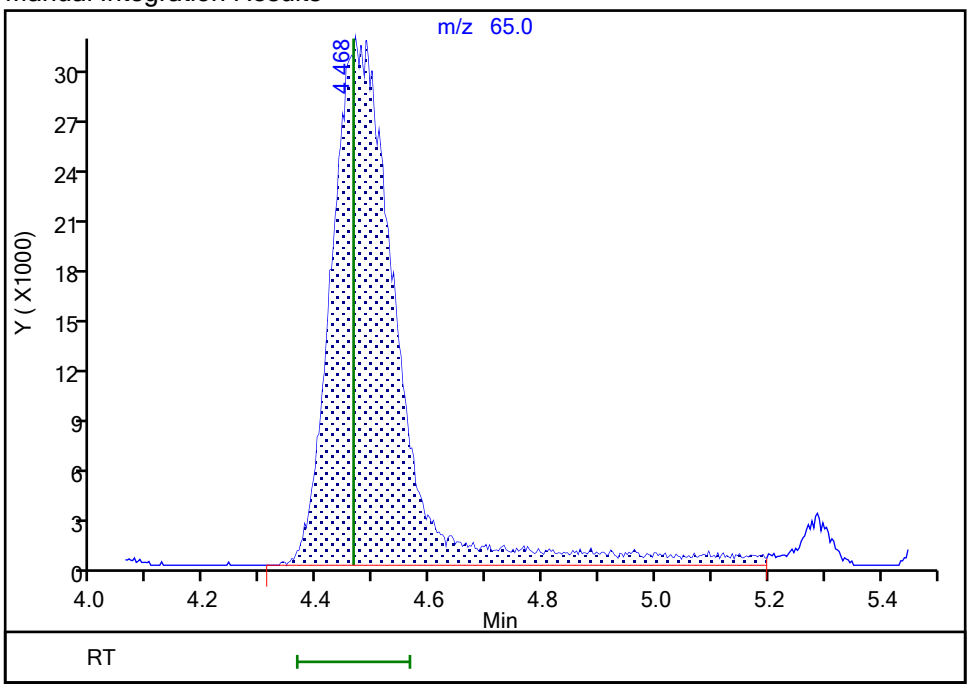
Processing Integration Results

RT: 4.47
Area: 255046
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 4.47
Area: 257696
Amount: 250.0000
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:23:30
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

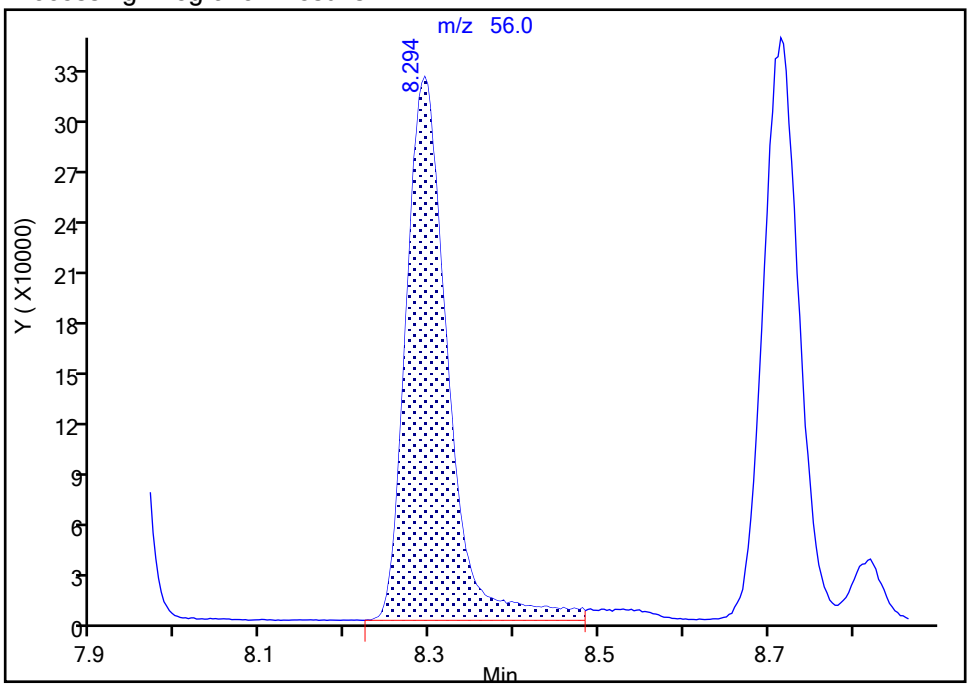
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D
Injection Date: 29-Nov-2021 18:00:30 Instrument ID: 9915
Lims ID: IC v300
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

63 n-Butanol, CAS: 71-36-3

Signal: 1

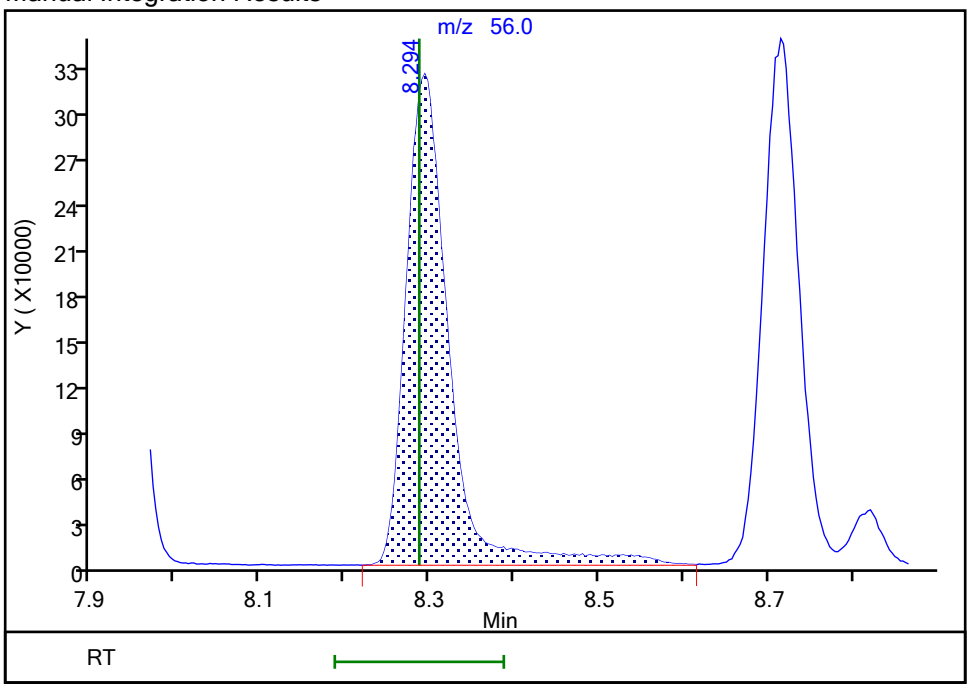
Processing Integration Results

RT: 8.29
Area: 1090170
Amount: 3642.1961
Amount Units: ug/l



Manual Integration Results

RT: 8.29
Area: 1123494
Amount: 3683.6709
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:18:32
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

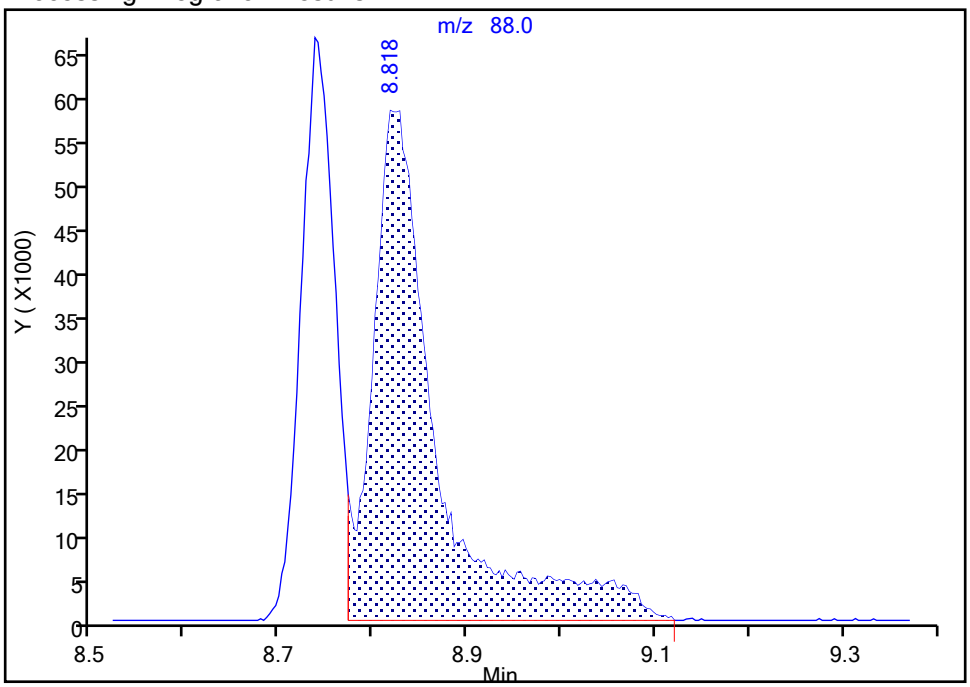
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D
Injection Date: 29-Nov-2021 18:00:30 Instrument ID: 9915
Lims ID: IC v300
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

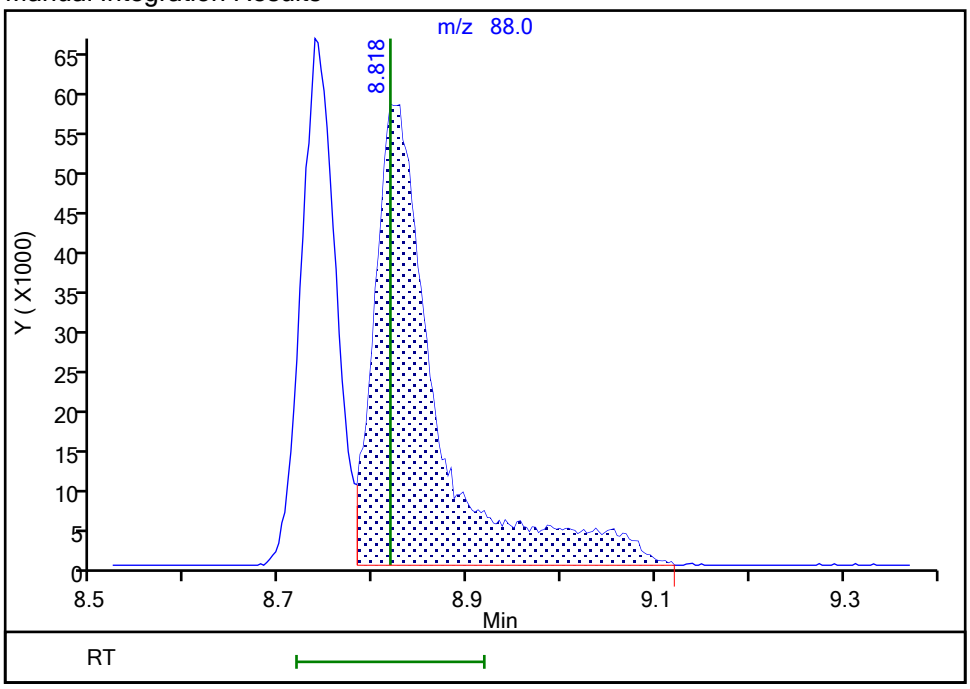
Processing Integration Results

RT: 8.82
Area: 277215
Amount: 3701.2321
Amount Units: ug/l



Manual Integration Results

RT: 8.82
Area: 270119
Amount: 3828.2323
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:02:46
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

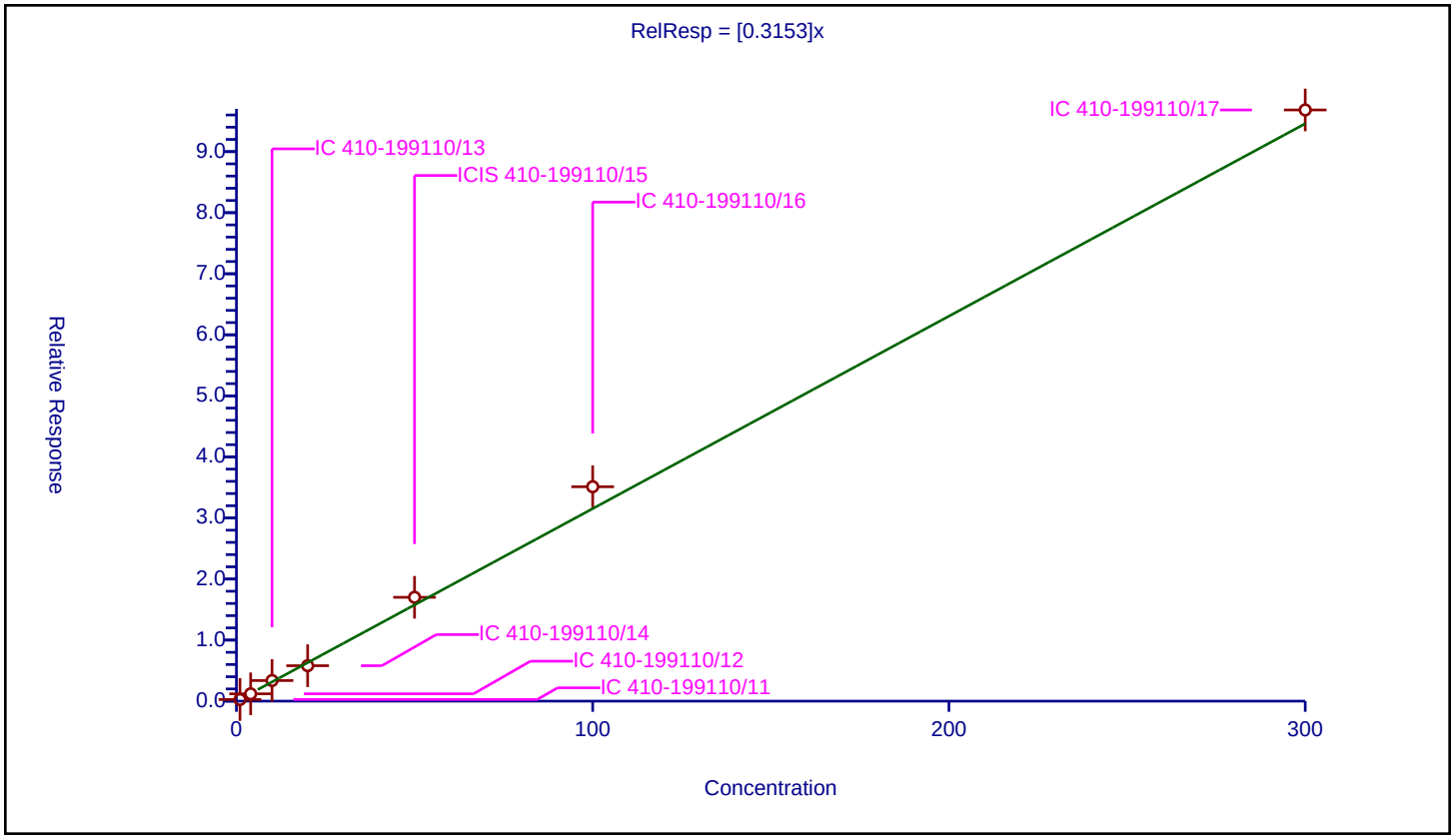
Curve Coefficients

Intercept:	0
Slope:	0.3153

Error Coefficients

Standard Error:	1040000
Relative Standard Error:	9.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.264224	50.0	1116666.0	0.264224	Y
2	IC 410-199110/12	4.0	1.20382	50.0	1167492.0	0.300955	Y
3	IC 410-199110/13	10.0	3.375033	50.0	1104004.0	0.337503	Y
4	IC 410-199110/14	20.0	5.802586	50.0	1162206.0	0.290129	Y
5	ICIS 410-199110/15	50.0	17.008091	50.0	1148377.0	0.340162	Y
6	IC 410-199110/16	100.0	35.112835	50.0	1133604.0	0.351128	Y
7	IC 410-199110/17	300.0	96.82696	50.0	1237315.0	0.322757	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

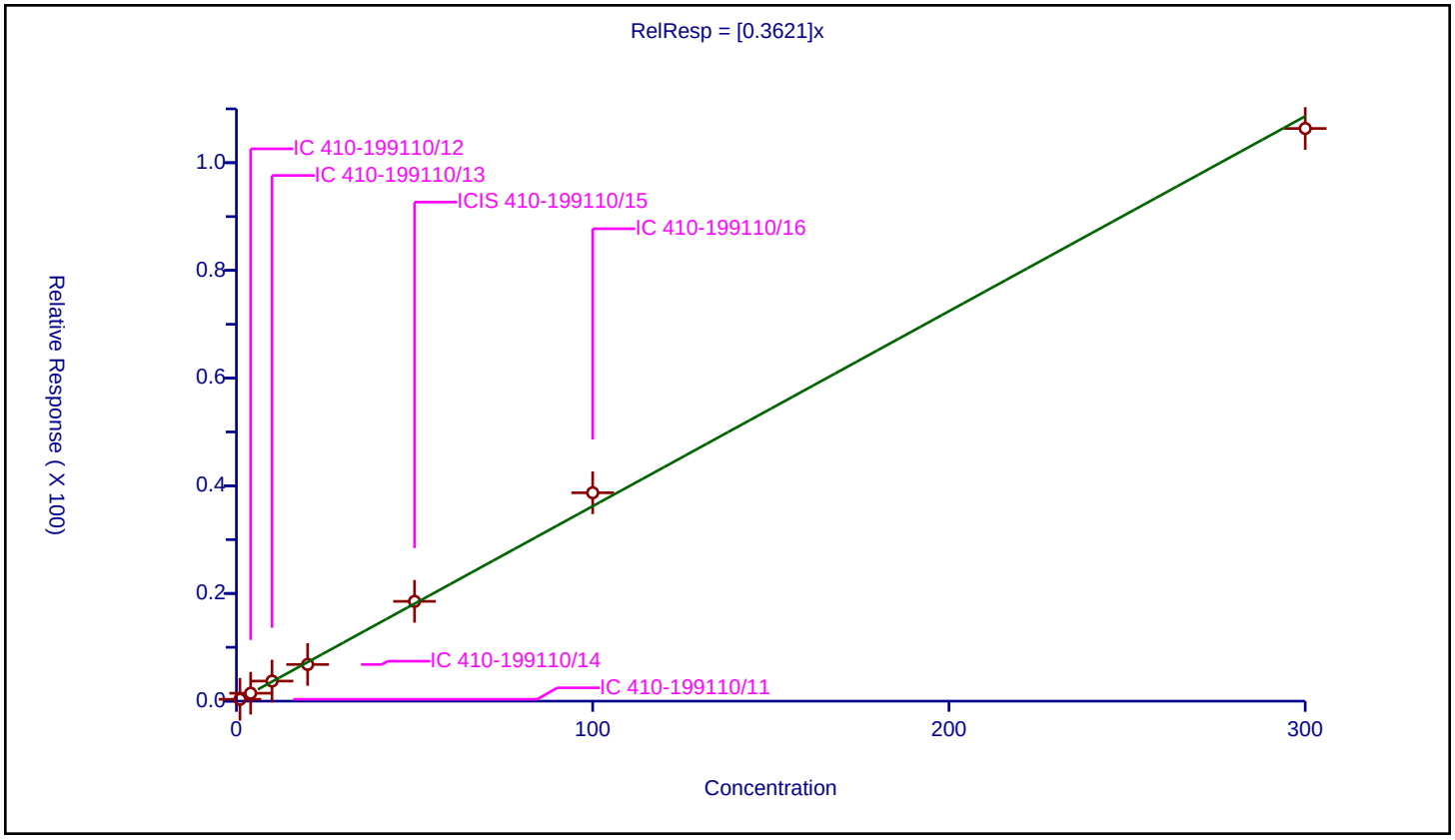
Curve Coefficients

Intercept:	0
Slope:	0.3621

Error Coefficients

Standard Error:	1150000
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 410-199110/11	1.0	0.341508	50.0	1116666.0	0.341508	Y
2	IC 410-199110/12	4.0	1.47046	50.0	1167492.0	0.367615	Y
3	IC 410-199110/13	10.0	3.725258	50.0	1104004.0	0.372526	Y
4	IC 410-199110/14	20.0	6.816477	50.0	1162206.0	0.340824	Y
5	ICIS 410-199110/15	50.0	18.531676	50.0	1148377.0	0.370634	Y
6	IC 410-199110/16	100.0	38.702801	50.0	1133604.0	0.387028	Y
7	IC 410-199110/17	300.0	106.359456	50.0	1237315.0	0.354532	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

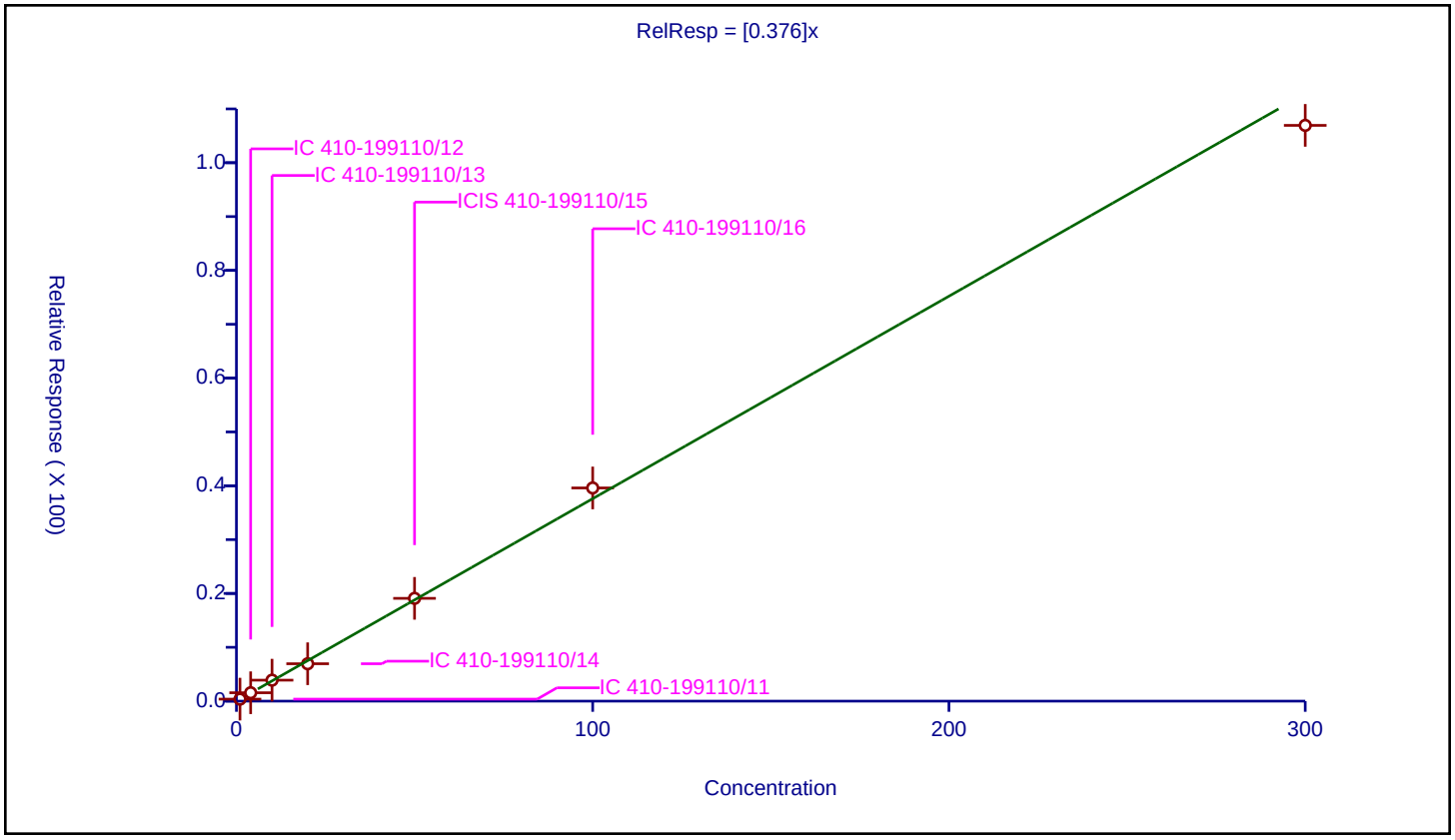
Curve Coefficients

Intercept:	0
Slope:	0.376

Error Coefficients

Standard Error:	1160000
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 410-199110/11	1.0	0.371508	50.0	1116666.0	0.371508	Y
2	IC 410-199110/12	4.0	1.559711	50.0	1167492.0	0.389928	Y
3	IC 410-199110/13	10.0	3.893419	50.0	1104004.0	0.389342	Y
4	IC 410-199110/14	20.0	6.945326	50.0	1162206.0	0.347266	Y
5	ICIS 410-199110/15	50.0	19.091945	50.0	1148377.0	0.381839	Y
6	IC 410-199110/16	100.0	39.598043	50.0	1133604.0	0.39598	Y
7	IC 410-199110/17	300.0	106.935744	50.0	1237315.0	0.356452	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

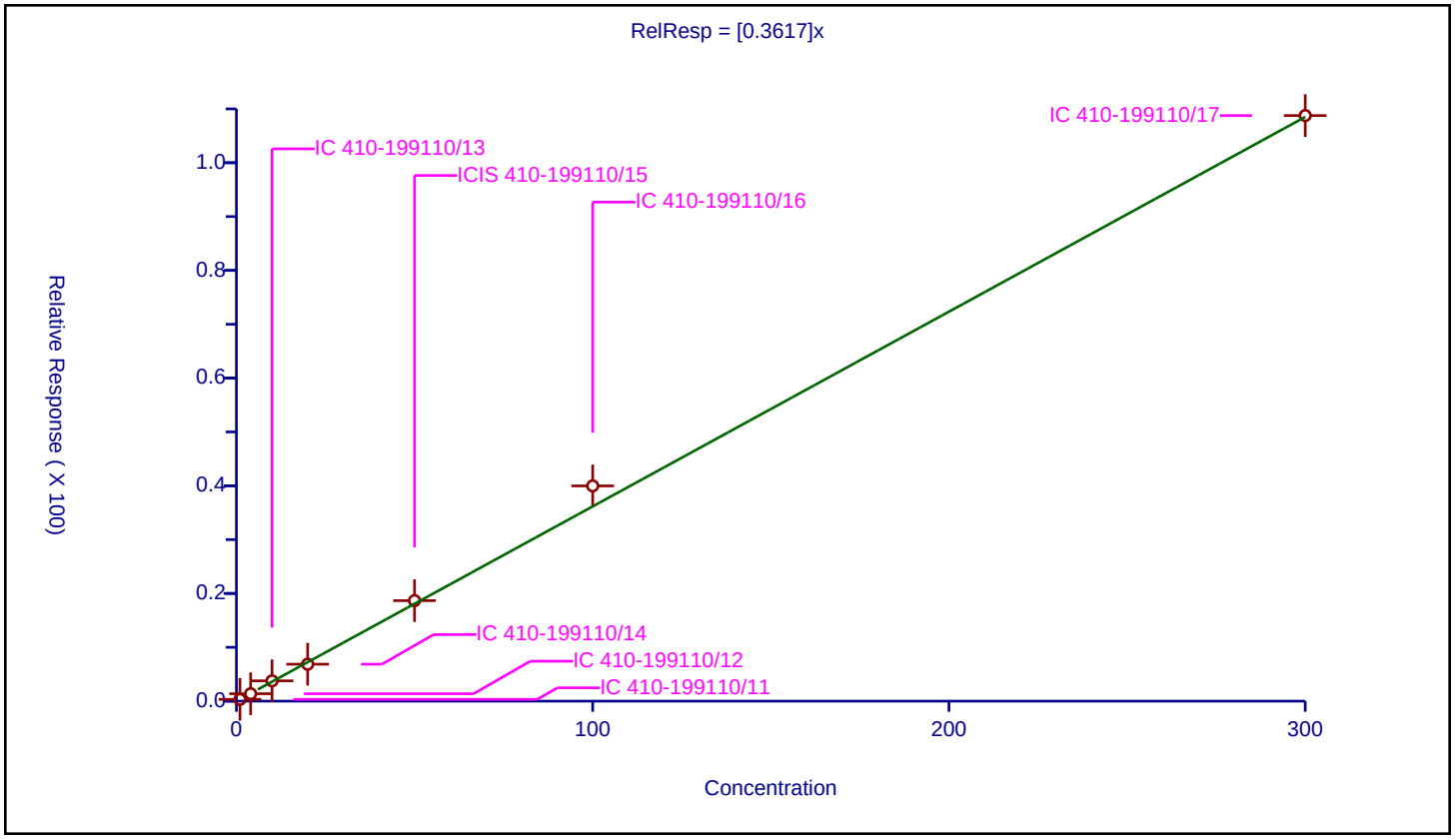
Curve Coefficients

Intercept:	0
Slope:	0.3617

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.330493	50.0	1116666.0	0.330493	Y
2	IC 410-199110/12	4.0	1.380009	50.0	1167492.0	0.345002	Y
3	IC 410-199110/13	10.0	3.771725	50.0	1104004.0	0.377173	Y
4	IC 410-199110/14	20.0	6.865607	50.0	1162206.0	0.34328	Y
5	ICIS 410-199110/15	50.0	18.671307	50.0	1148377.0	0.373426	Y
6	IC 410-199110/16	100.0	39.978908	50.0	1133604.0	0.399789	Y
7	IC 410-199110/17	300.0	108.756743	50.0	1237315.0	0.362522	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

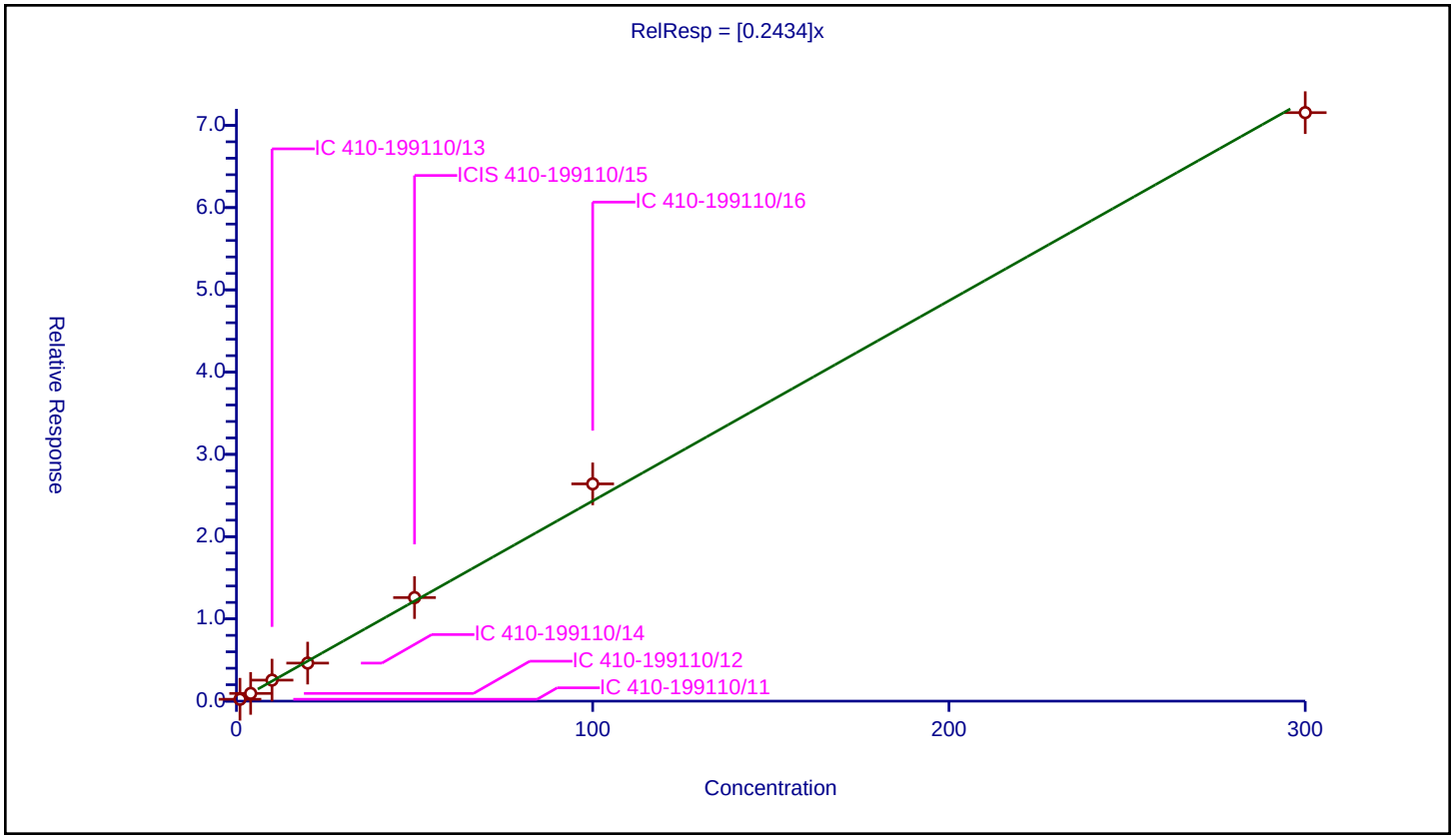
Curve Coefficients

Intercept:	0
Slope:	0.2434

Error Coefficients

Standard Error:	774000
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 410-199110/11	1.0	0.227418	50.0	1116666.0	0.227418	Y
2	IC 410-199110/12	4.0	0.940392	50.0	1167492.0	0.235098	Y
3	IC 410-199110/13	10.0	2.555516	50.0	1104004.0	0.255552	Y
4	IC 410-199110/14	20.0	4.625428	50.0	1162206.0	0.231271	Y
5	ICIS 410-199110/15	50.0	12.589289	50.0	1148377.0	0.251786	Y
6	IC 410-199110/16	100.0	26.411869	50.0	1133604.0	0.264119	Y
7	IC 410-199110/17	300.0	71.543301	50.0	1237315.0	0.238478	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

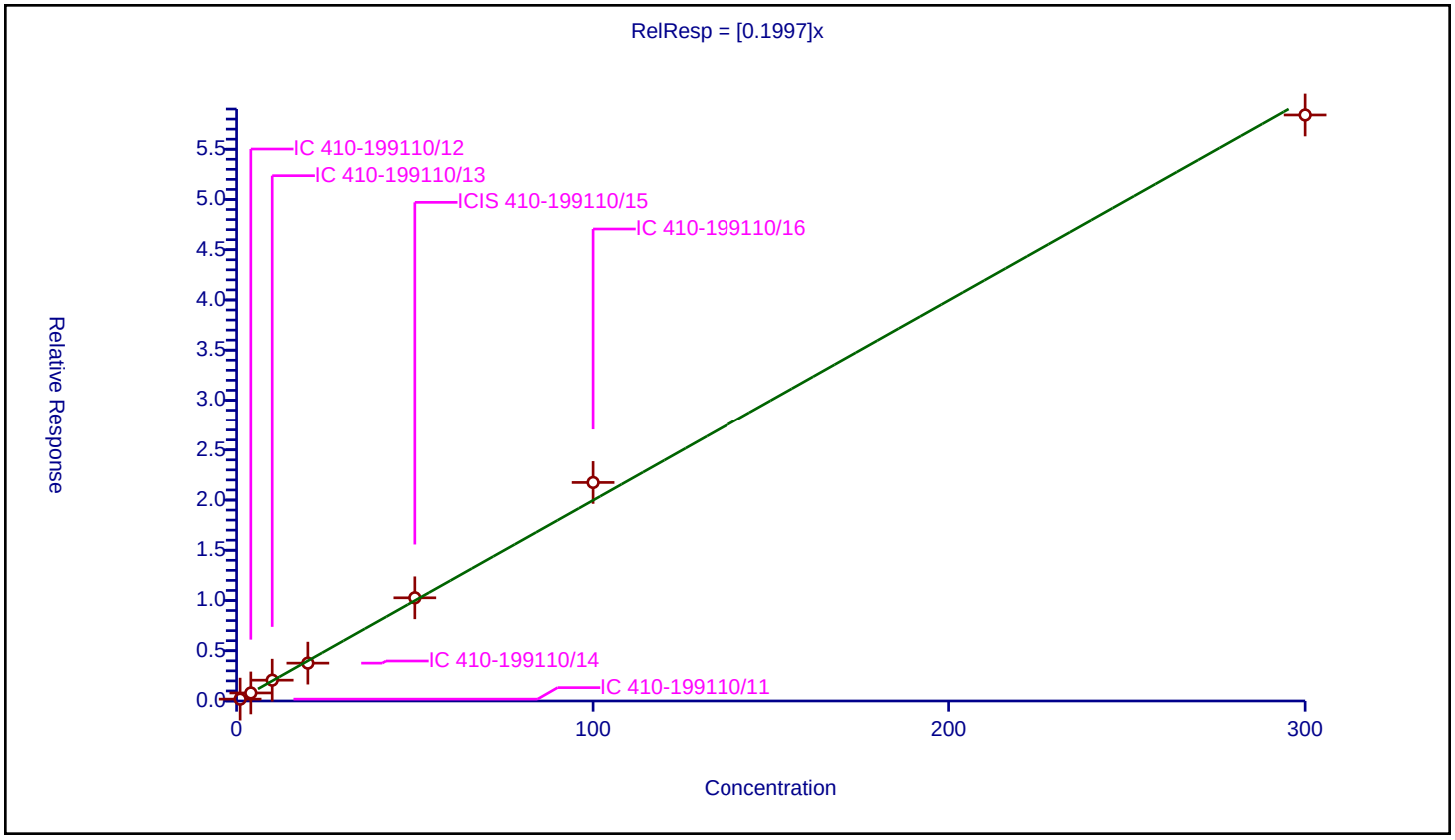
Curve Coefficients

Intercept:	0
Slope:	0.1997

Error Coefficients

Standard Error:	632000
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 410-199110/11	1.0	0.18506	50.0	1116666.0	0.18506	Y
2	IC 410-199110/12	4.0	0.801247	50.0	1167492.0	0.200312	Y
3	IC 410-199110/13	10.0	2.07069	50.0	1104004.0	0.207069	Y
4	IC 410-199110/14	20.0	3.765425	50.0	1162206.0	0.188271	Y
5	ICIS 410-199110/15	50.0	10.265967	50.0	1148377.0	0.205319	Y
6	IC 410-199110/16	100.0	21.747277	50.0	1133604.0	0.217473	Y
7	IC 410-199110/17	300.0	58.408328	50.0	1237315.0	0.194694	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

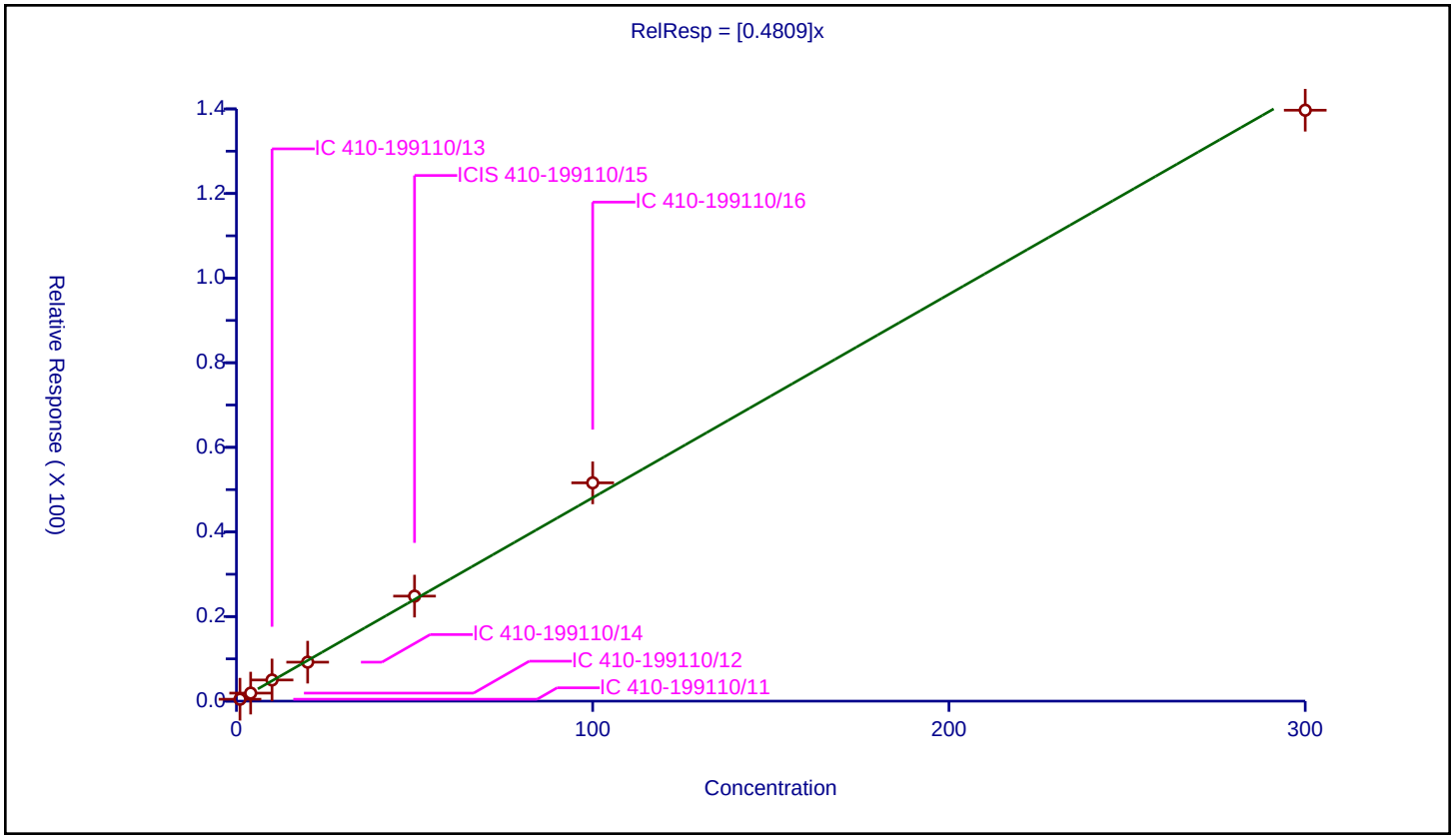
Curve Coefficients

Intercept:	0
Slope:	0.4809

Error Coefficients

Standard Error:	1510000
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 410-199110/11	1.0	0.451164	50.0	1116666.0	0.451164	Y
2	IC 410-199110/12	4.0	1.901212	50.0	1167492.0	0.475303	Y
3	IC 410-199110/13	10.0	5.005145	50.0	1104004.0	0.500514	Y
4	IC 410-199110/14	20.0	9.214072	50.0	1162206.0	0.460704	Y
5	ICIS 410-199110/15	50.0	24.828954	50.0	1148377.0	0.496579	Y
6	IC 410-199110/16	100.0	51.605984	50.0	1133604.0	0.51606	Y
7	IC 410-199110/17	300.0	139.689772	50.0	1237315.0	0.465633	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

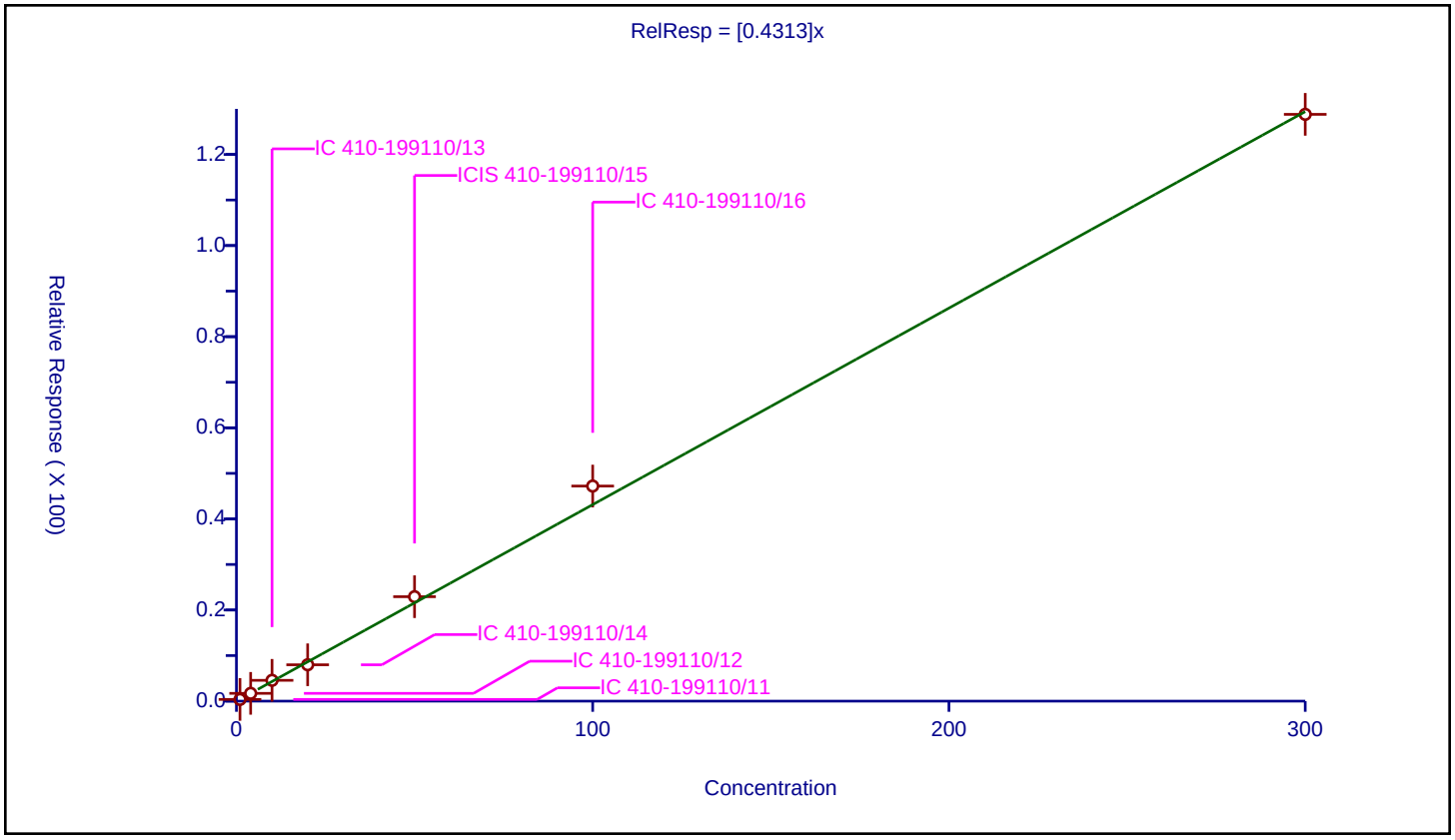
Curve Coefficients

Intercept:	0
Slope:	0.4313

Error Coefficients

Standard Error:	1390000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.375985	50.0	1116666.0	0.375985	Y
2	IC 410-199110/12	4.0	1.709348	50.0	1167492.0	0.427337	Y
3	IC 410-199110/13	10.0	4.56819	50.0	1104004.0	0.456819	Y
4	IC 410-199110/14	20.0	7.98417	50.0	1162206.0	0.399208	Y
5	ICIS 410-199110/15	50.0	22.925398	50.0	1148377.0	0.458508	Y
6	IC 410-199110/16	100.0	47.213621	50.0	1133604.0	0.472136	Y
7	IC 410-199110/17	300.0	128.800103	50.0	1237315.0	0.429334	Y



Calibration / Pentane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

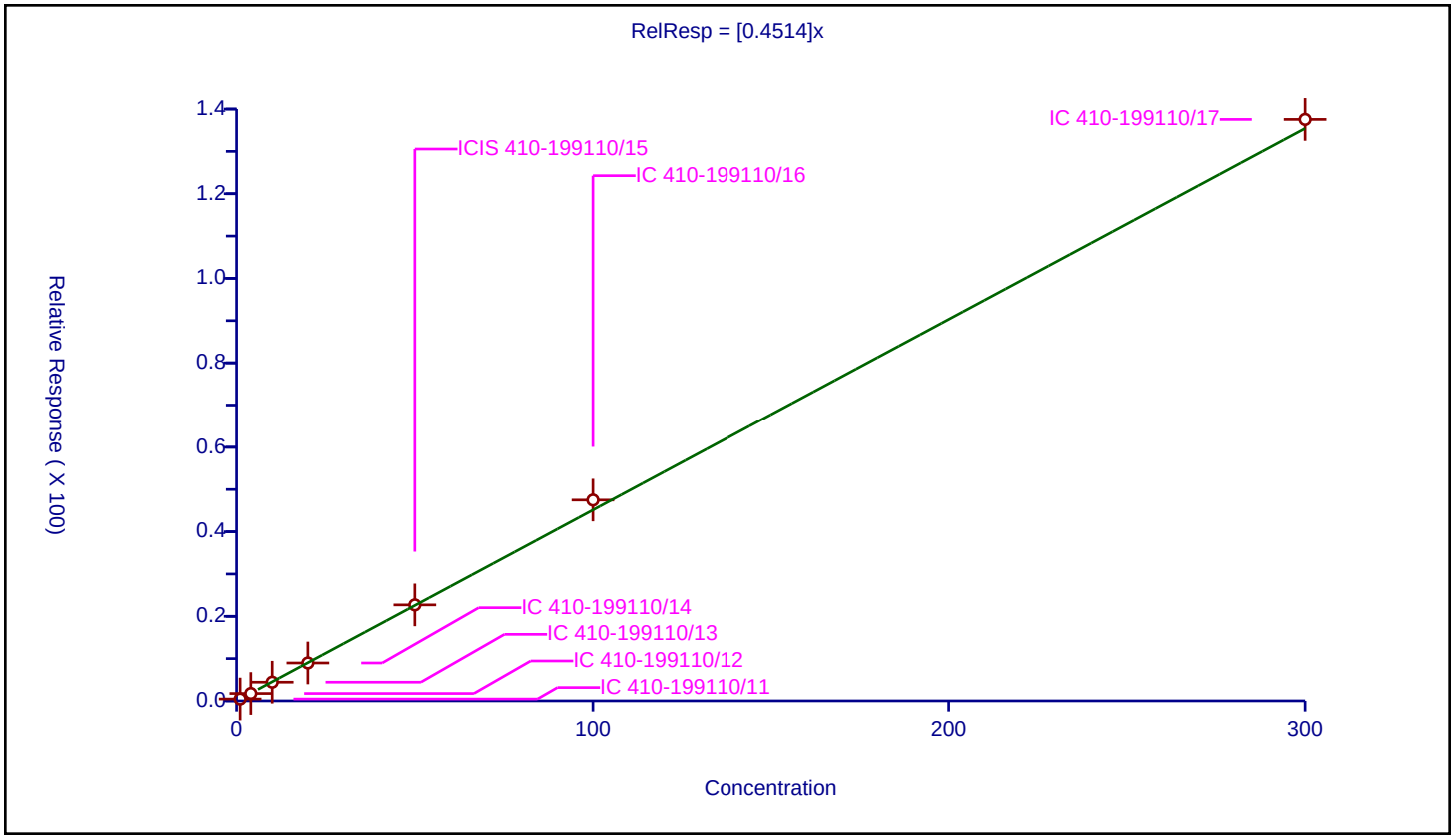
Curve Coefficients

Intercept:	0
Slope:	0.4514

Error Coefficients

Standard Error:	1480000
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 410-199110/11	1.0	0.444403	50.0	1116666.0	0.444403	Y
2	IC 410-199110/12	4.0	1.750119	50.0	1167492.0	0.43753	Y
3	IC 410-199110/13	10.0	4.422629	50.0	1104004.0	0.442263	Y
4	IC 410-199110/14	20.0	8.96644	50.0	1162206.0	0.448322	Y
5	ICIS 410-199110/15	50.0	22.701082	50.0	1148377.0	0.454022	Y
6	IC 410-199110/16	100.0	47.499435	50.0	1133604.0	0.474994	Y
7	IC 410-199110/17	300.0	137.550987	50.0	1237315.0	0.458503	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

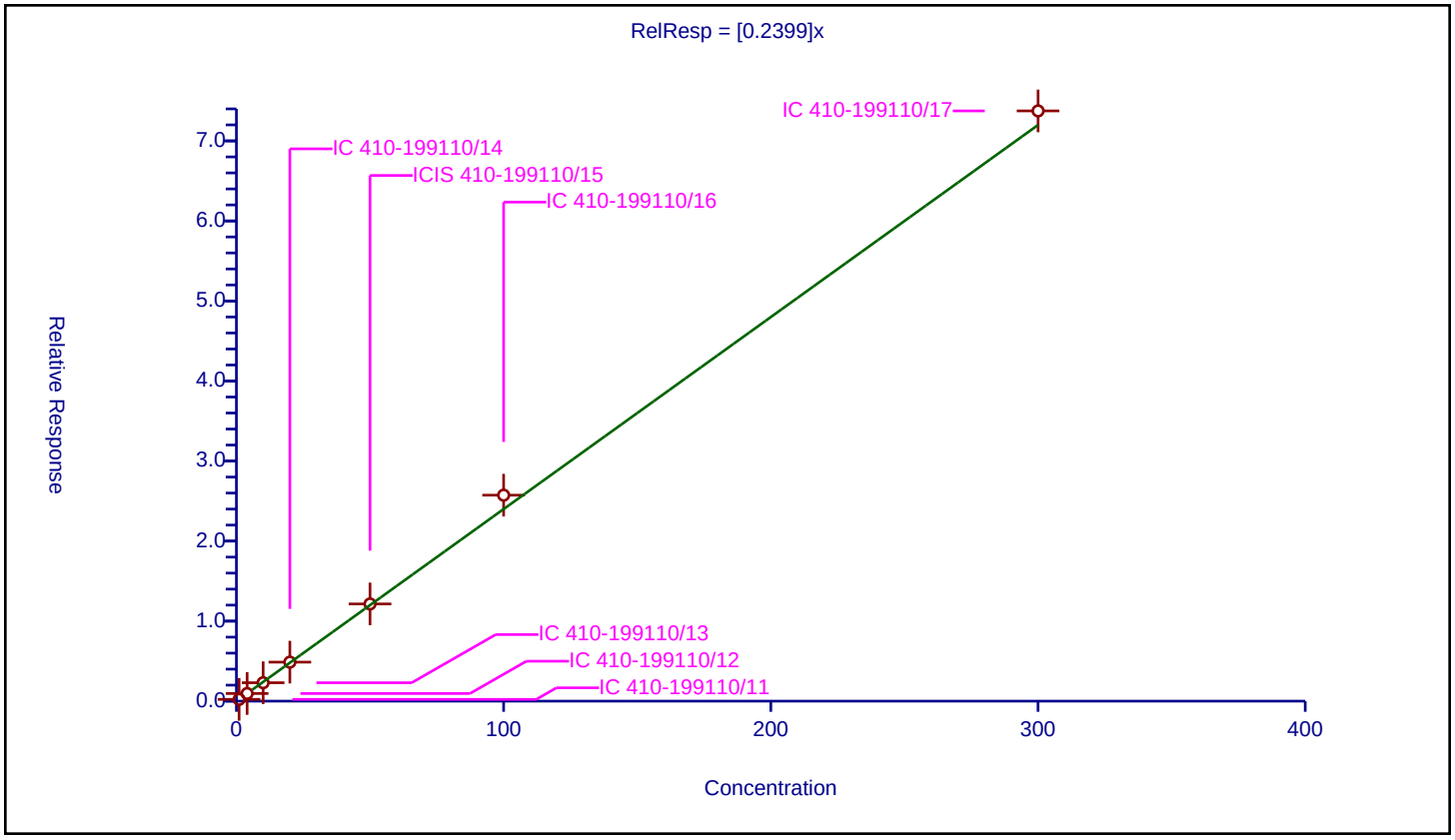
Curve Coefficients

Intercept:	0
Slope:	0.2399

Error Coefficients

Standard Error:	792000
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 410-199110/11	1.000086	0.221911	50.0	1116666.0	0.221892	Y
2	IC 410-199110/12	4.000344	0.951998	50.0	1167492.0	0.237979	Y
3	IC 410-199110/13	10.000859	2.300354	50.0	1104004.0	0.230016	Y
4	IC 410-199110/14	20.001718	4.874222	50.0	1162206.0	0.24369	Y
5	ICIS 410-199110/15	50.004295	12.146185	50.0	1148377.0	0.242903	Y
6	IC 410-199110/16	100.00859	25.737162	50.0	1133604.0	0.25735	Y
7	IC 410-199110/17	300.02577	73.746499	50.0	1237315.0	0.245801	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

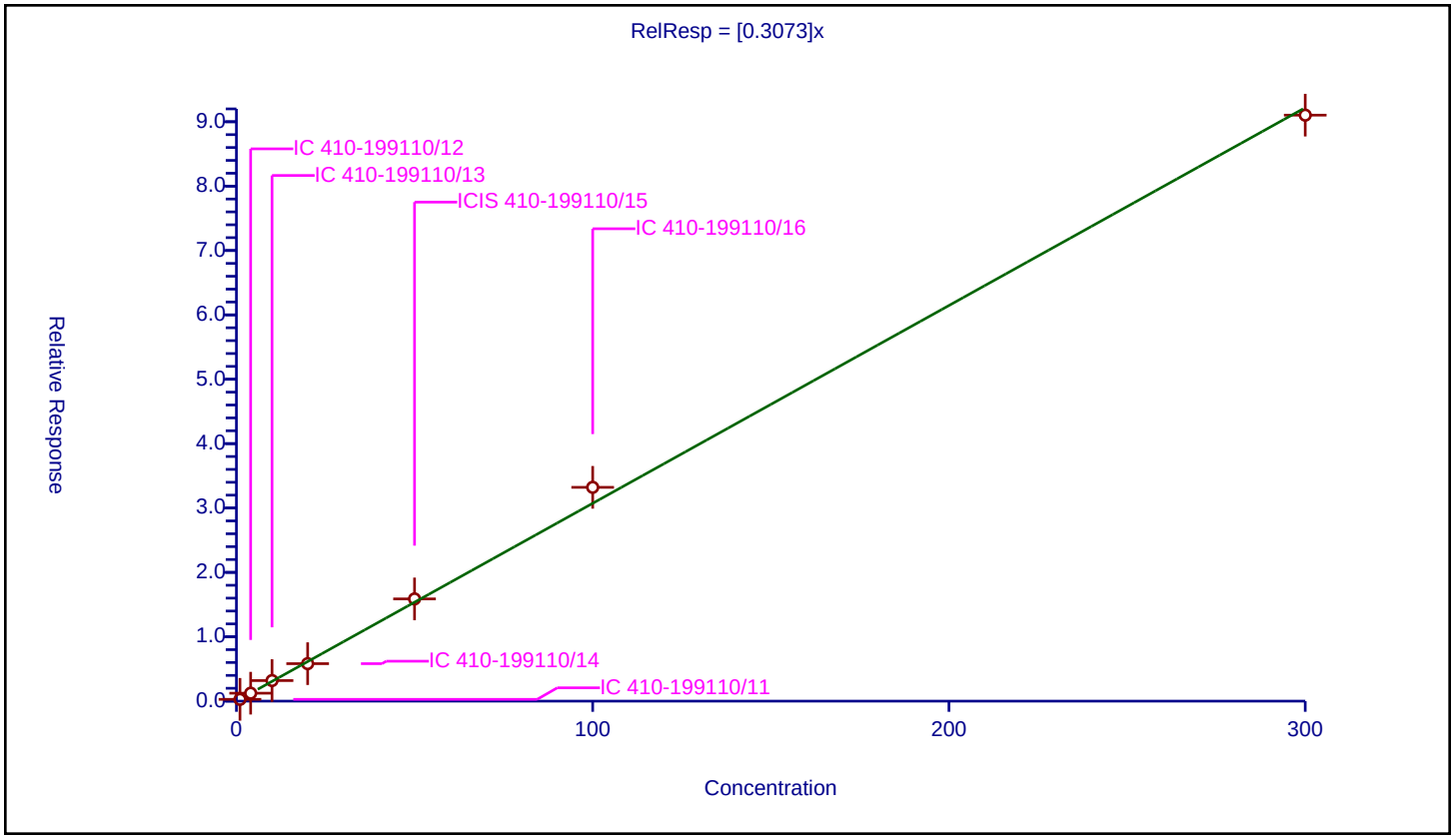
Curve Coefficients

Intercept:	0
Slope:	0.3073

Error Coefficients

Standard Error:	983000
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 410-199110/11	1.0	0.278463	50.0	1116666.0	0.278463	Y
2	IC 410-199110/12	4.0	1.233884	50.0	1167492.0	0.308471	Y
3	IC 410-199110/13	10.0	3.197135	50.0	1104004.0	0.319714	Y
4	IC 410-199110/14	20.0	5.823881	50.0	1162206.0	0.291194	Y
5	ICIS 410-199110/15	50.0	15.882197	50.0	1148377.0	0.317644	Y
6	IC 410-199110/16	100.0	33.213274	50.0	1133604.0	0.332133	Y
7	IC 410-199110/17	300.0	91.026618	50.0	1237315.0	0.303422	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

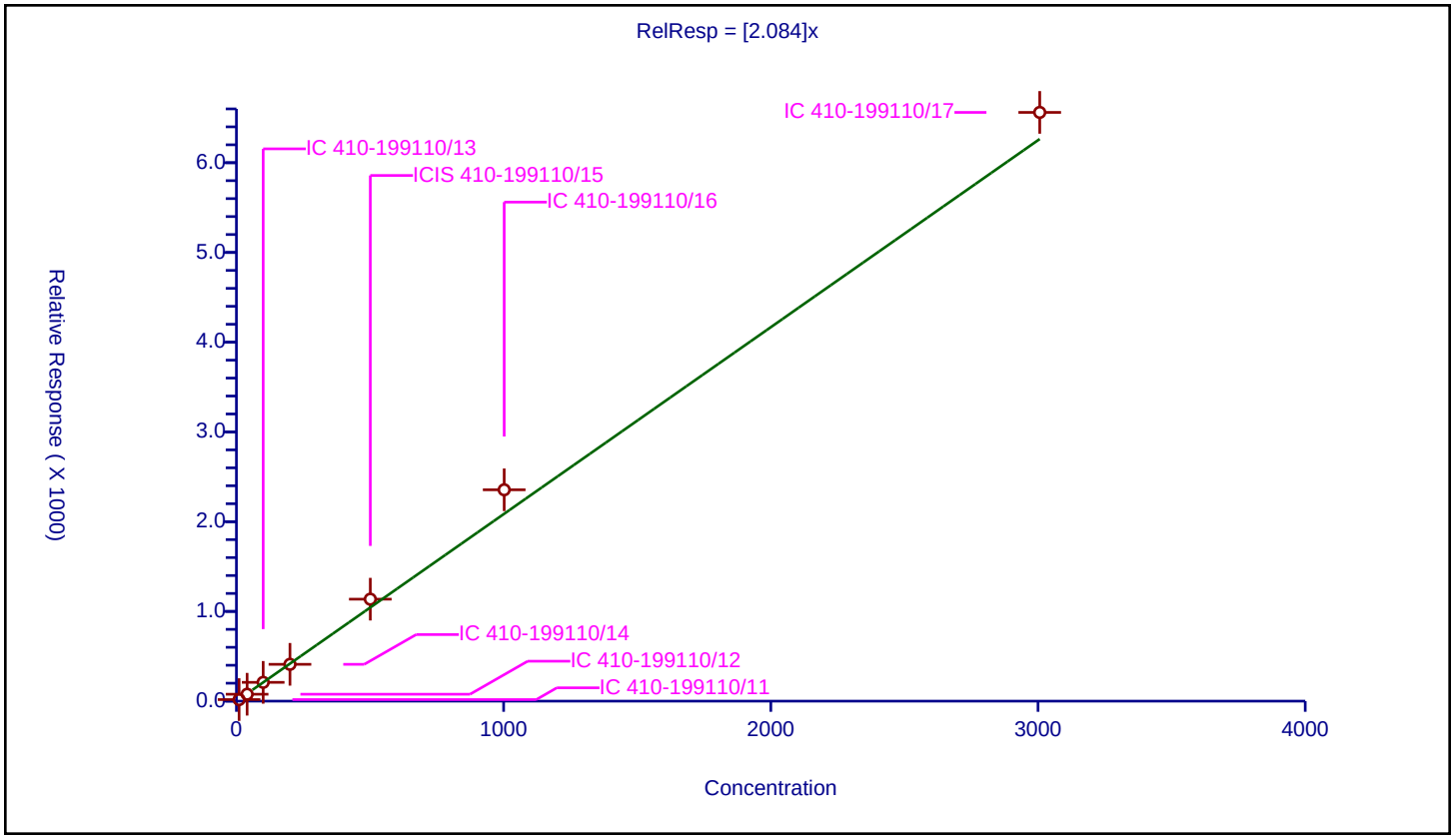
Curve Coefficients

Intercept:	0
Slope:	2.084

Error Coefficients

Standard Error:	2940000
Relative Standard Error:	10.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	10.021507	17.328125	250.0	254211.0	1.729094	Y
2	IC 410-199110/12	40.086029	77.022972	250.0	245258.0	1.921442	Y
3	IC 410-199110/13	100.215073	209.279986	250.0	226940.0	2.088308	Y
4	IC 410-199110/14	200.430147	410.209298	250.0	244914.0	2.046645	Y
5	ICIS 410-199110/15	501.075367	1136.294957	250.0	235614.0	2.267713	Y
6	IC 410-199110/16	1002.150734	2355.183882	250.0	231371.0	2.350129	Y
7	IC 410-199110/17	3006.452203	6560.784801	250.0	257696.0	2.182235	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

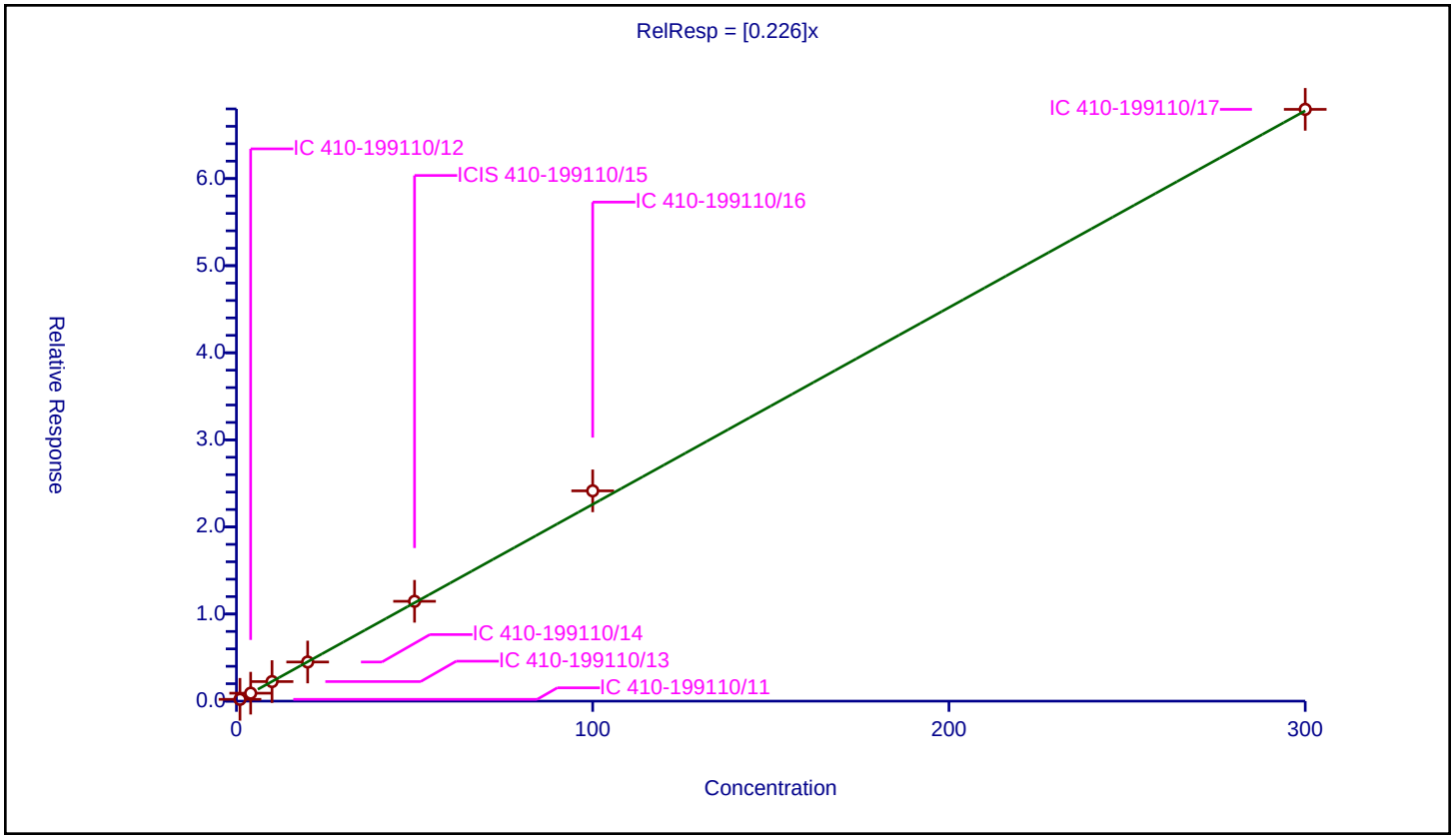
Curve Coefficients

Intercept:	0
Slope:	0.226

Error Coefficients

Standard Error:	731000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.207224	50.0	1116666.0	0.207224	Y
2	IC 410-199110/12	4.0	0.911569	50.0	1167492.0	0.227892	Y
3	IC 410-199110/13	10.0	2.246867	50.0	1104004.0	0.224687	Y
4	IC 410-199110/14	20.0	4.493782	50.0	1162206.0	0.224689	Y
5	ICIS 410-199110/15	50.0	11.46357	50.0	1148377.0	0.229271	Y
6	IC 410-199110/16	100.0	24.144984	50.0	1133604.0	0.24145	Y
7	IC 410-199110/17	300.0	67.947087	50.0	1237315.0	0.22649	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

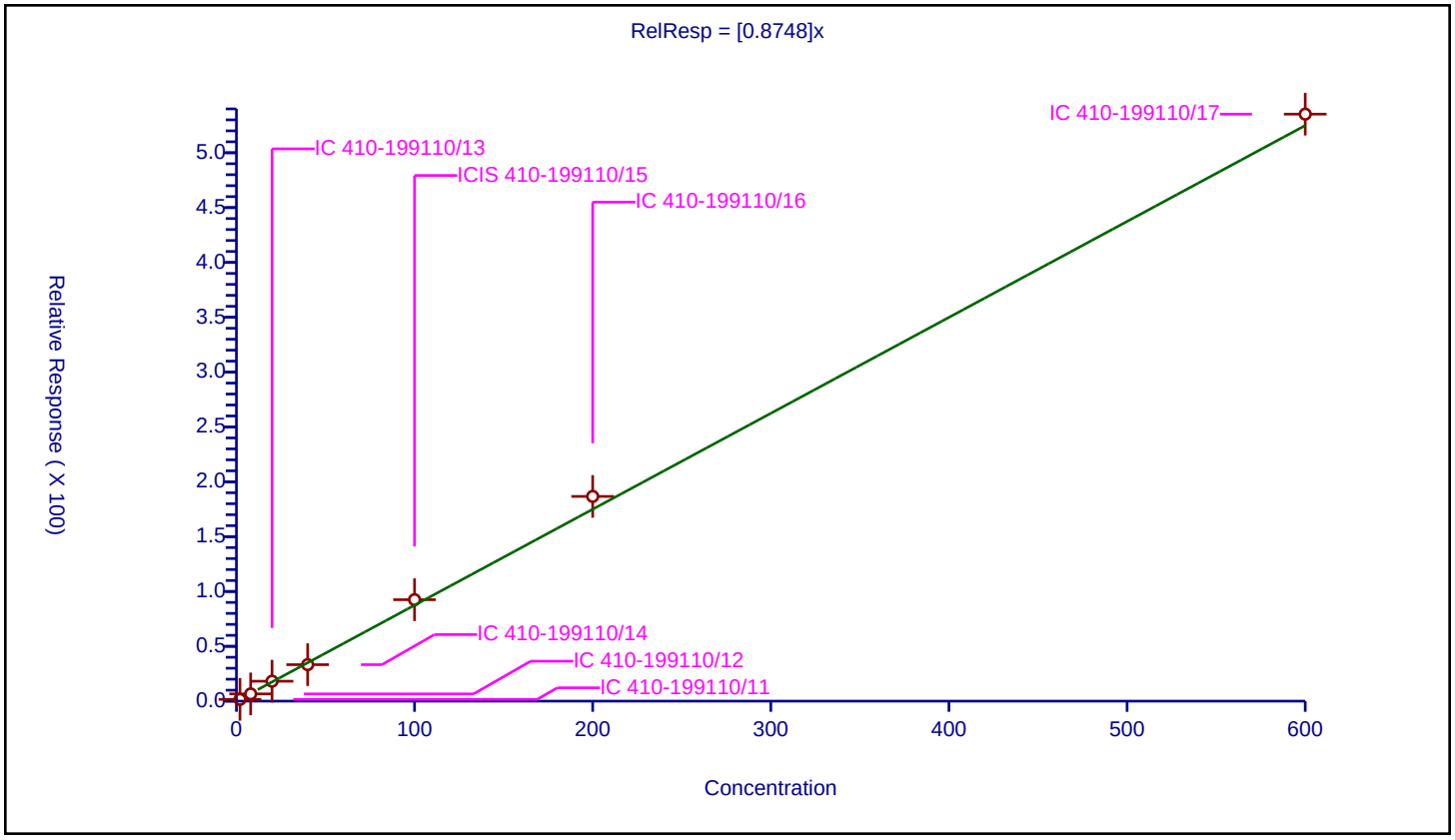
Curve Coefficients

Intercept:	0
Slope:	0.8748

Error Coefficients

Standard Error:	239000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	2.0	1.617751	250.0	254211.0	0.808875	Y
2	IC 410-199110/12	8.0	6.585922	250.0	245258.0	0.82324	Y
3	IC 410-199110/13	20.0	18.188728	250.0	226940.0	0.909436	Y
4	IC 410-199110/14	40.0	33.260655	250.0	244914.0	0.831516	Y
5	ICIS 410-199110/15	100.0	92.494504	250.0	235614.0	0.924945	Y
6	IC 410-199110/16	200.0	186.650445	250.0	231371.0	0.933252	Y
7	IC 410-199110/17	600.0	535.208152	250.0	257696.0	0.892014	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

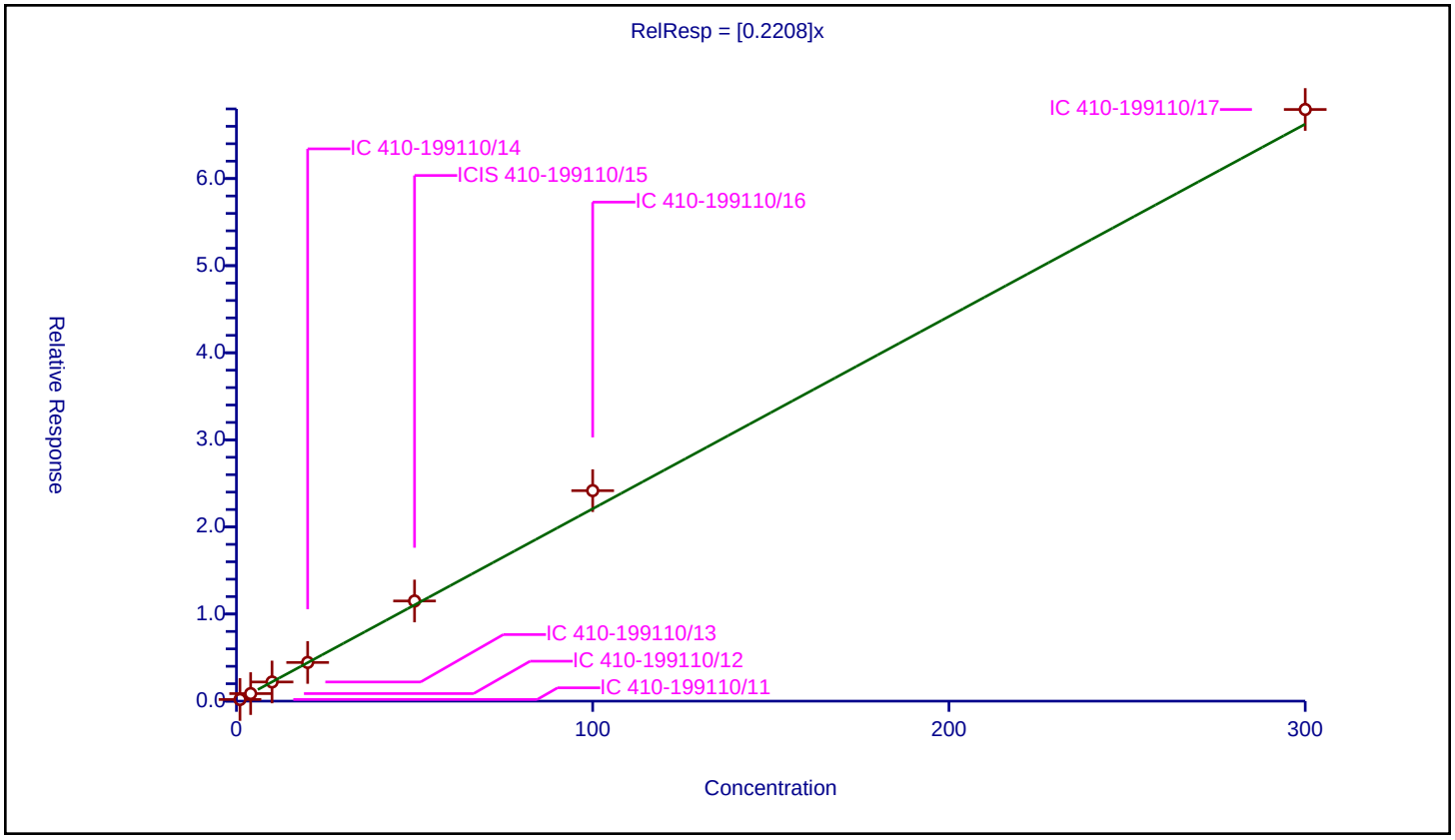
Curve Coefficients

Intercept:	0
Slope:	0.2208

Error Coefficients

Standard Error:	731000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.189	50.0	1116666.0	0.189	Y
2	IC 410-199110/12	4.0	0.866644	50.0	1167492.0	0.216661	Y
3	IC 410-199110/13	10.0	2.2004	50.0	1104004.0	0.22004	Y
4	IC 410-199110/14	20.0	4.441941	50.0	1162206.0	0.222097	Y
5	ICIS 410-199110/15	50.0	11.500579	50.0	1148377.0	0.230012	Y
6	IC 410-199110/16	100.0	24.168978	50.0	1133604.0	0.24169	Y
7	IC 410-199110/17	300.0	67.934115	50.0	1237315.0	0.226447	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

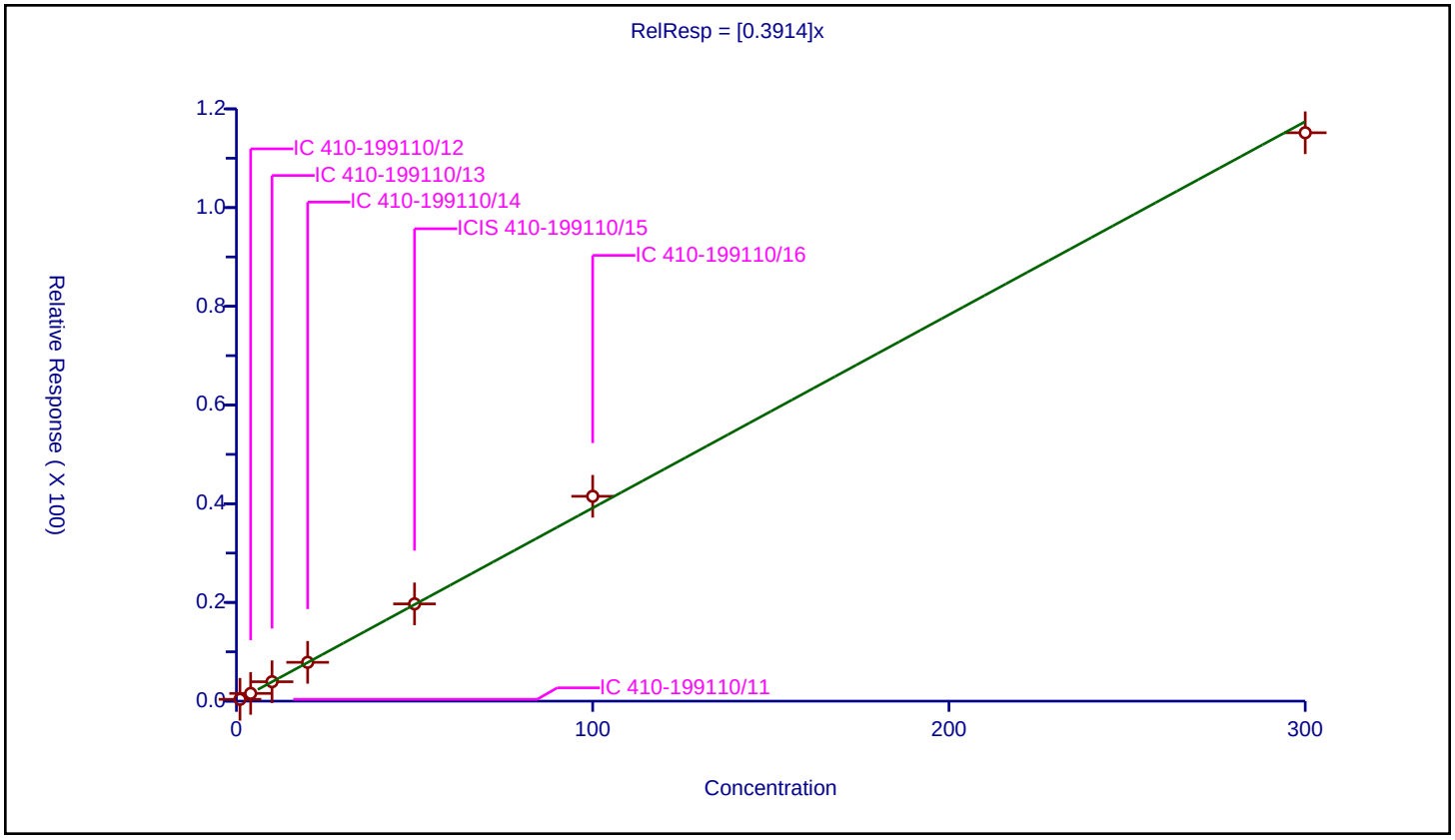
Curve Coefficients

Intercept:	0
Slope:	0.3914

Error Coefficients

Standard Error:	1240000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.368687	50.0	1116666.0	0.368687	Y
2	IC 410-199110/12	4.0	1.56682	50.0	1167492.0	0.391705	Y
3	IC 410-199110/13	10.0	3.93273	50.0	1104004.0	0.393273	Y
4	IC 410-199110/14	20.0	7.863666	50.0	1162206.0	0.393183	Y
5	ICIS 410-199110/15	50.0	19.705767	50.0	1148377.0	0.394115	Y
6	IC 410-199110/16	100.0	41.508631	50.0	1133604.0	0.415086	Y
7	IC 410-199110/17	300.0	115.16554	50.0	1237315.0	0.383885	Y



Calibration / Isopropyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

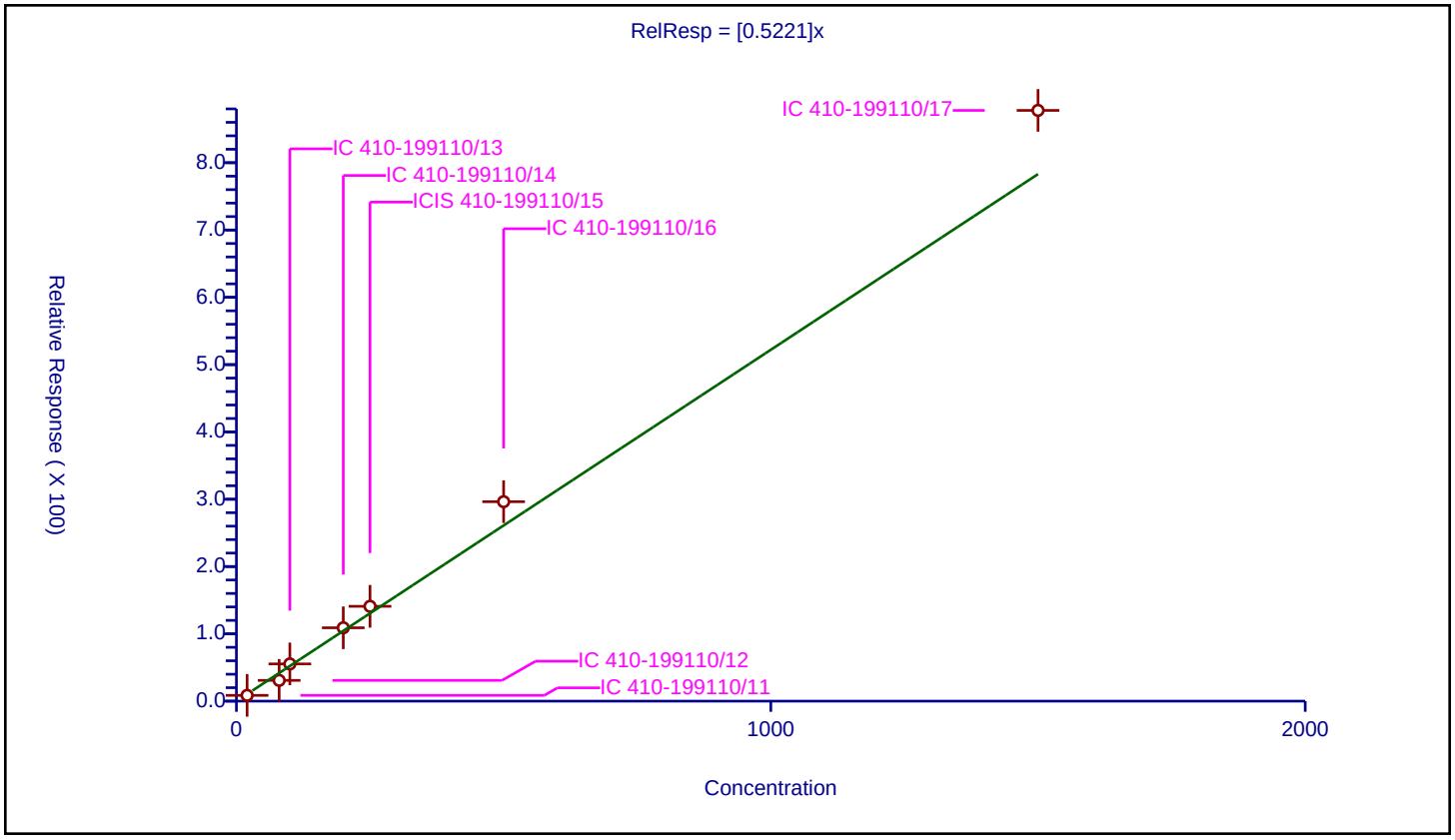
Curve Coefficients

Intercept:	0
Slope:	0.5221

Error Coefficients

Standard Error:	393000
Relative Standard Error:	15.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	20.0	8.584404	250.0	254211.0	0.42922	Y
2	IC 410-199110/12	80.0	30.851185	250.0	245258.0	0.38564	Y
3	IC 410-199110/13	100.0	55.30757	250.0	226940.0	0.553076	Y
4	IC 410-199110/14	200.0	108.999486	250.0	244914.0	0.544997	Y
5	ICIS 410-199110/15	250.0	140.917985	250.0	235614.0	0.563672	Y
6	IC 410-199110/16	500.0	296.342238	250.0	231371.0	0.592684	Y
7	IC 410-199110/17	1500.0	877.758095	250.0	257696.0	0.585172	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

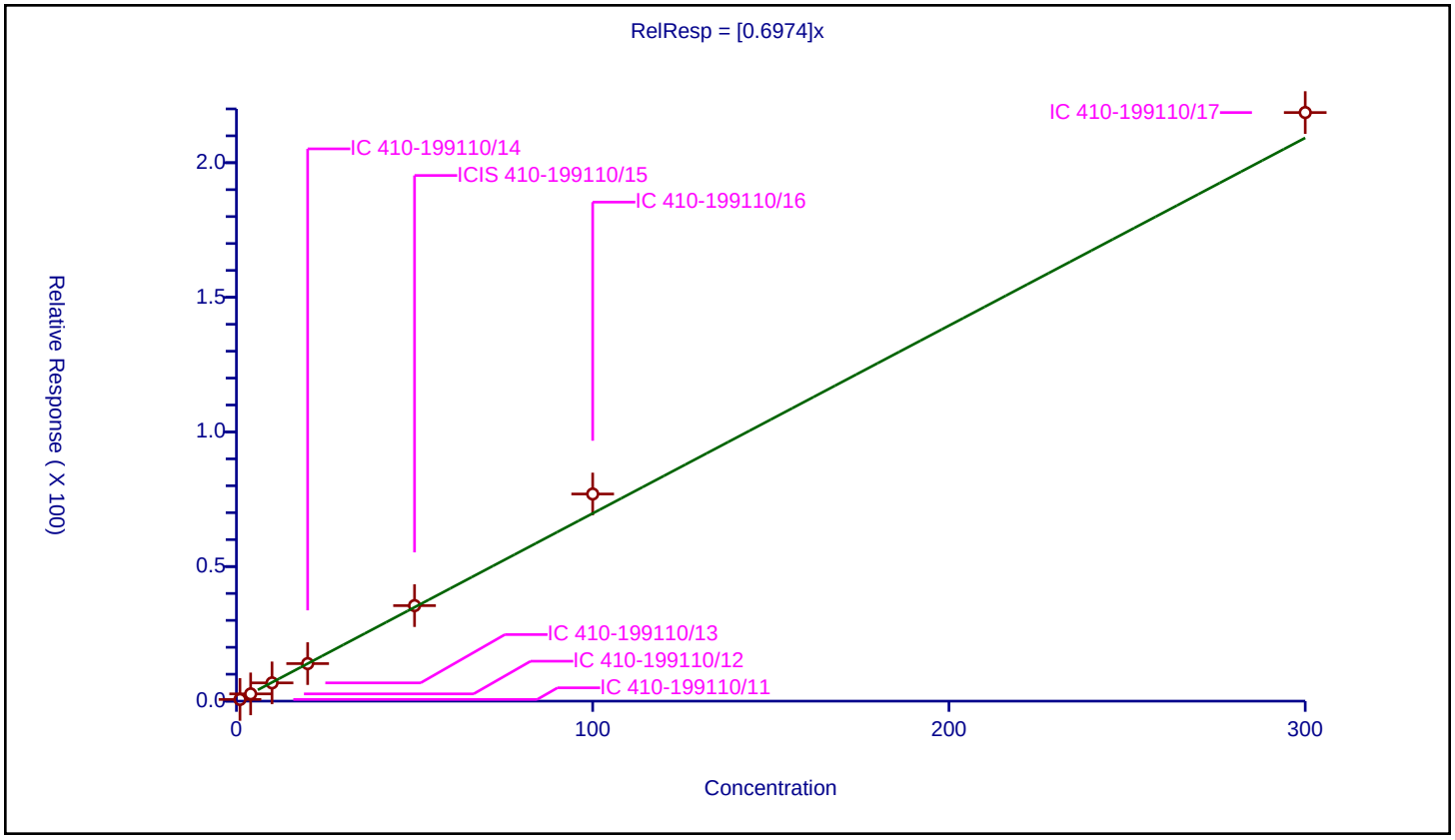
Curve Coefficients

Intercept:	0
Slope:	0.6974

Error Coefficients

Standard Error:	2350000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.624	50.0	1116666.0	0.624	Y
2	IC 410-199110/12	4.0	2.695265	50.0	1167492.0	0.673816	Y
3	IC 410-199110/13	10.0	6.785302	50.0	1104004.0	0.67853	Y
4	IC 410-199110/14	20.0	13.949937	50.0	1162206.0	0.697497	Y
5	ICIS 410-199110/15	50.0	35.483992	50.0	1148377.0	0.70968	Y
6	IC 410-199110/16	100.0	76.947594	50.0	1133604.0	0.769476	Y
7	IC 410-199110/17	300.0	218.646909	50.0	1237315.0	0.728823	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

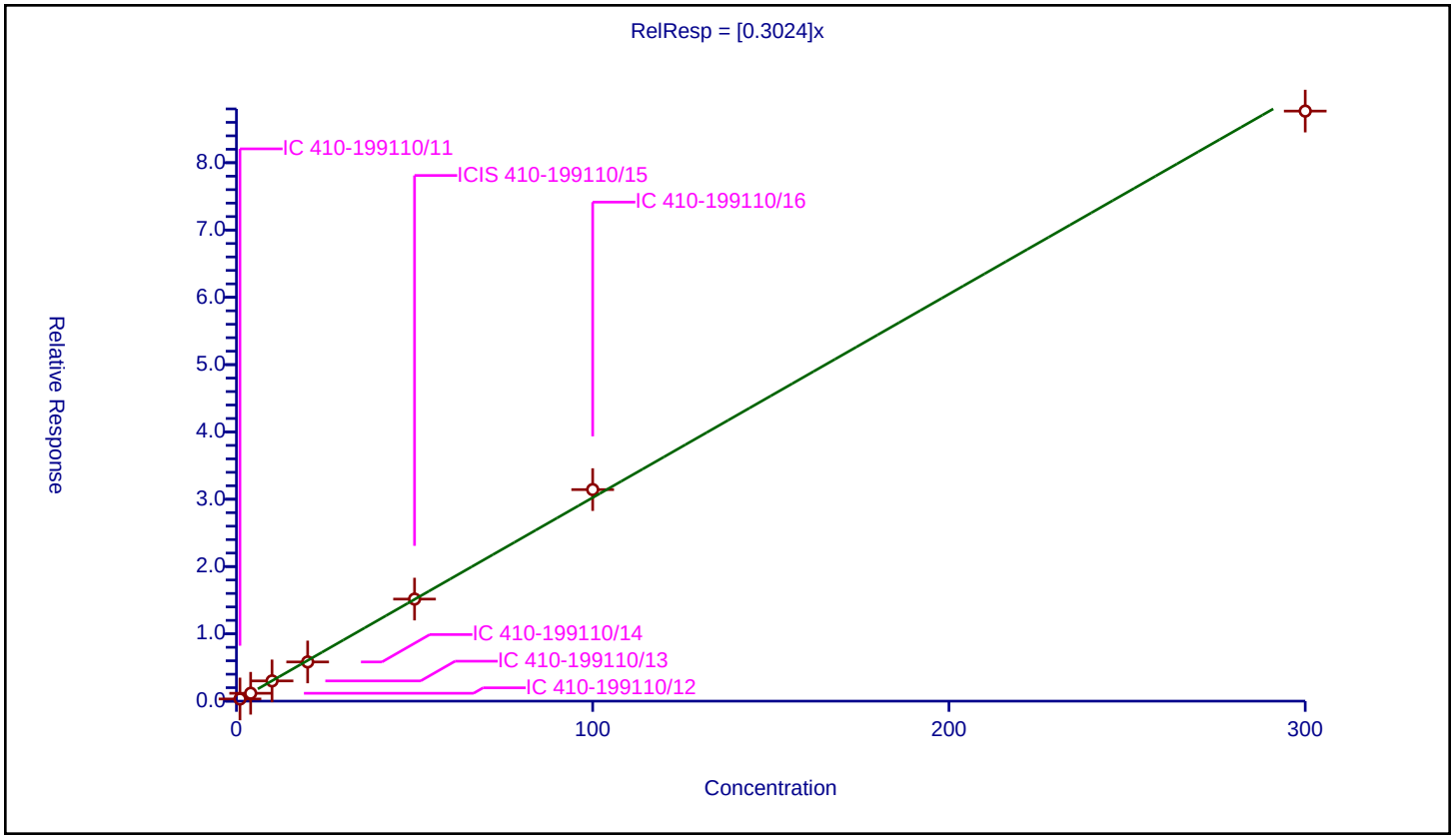
Curve Coefficients

Intercept:	0
Slope:	0.3024

Error Coefficients

Standard Error:	945000
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 410-199110/11	1.0	0.322791	50.0	1116666.0	0.322791	Y
2	IC 410-199110/12	4.0	1.168916	50.0	1167492.0	0.292229	Y
3	IC 410-199110/13	10.0	3.005243	50.0	1104004.0	0.300524	Y
4	IC 410-199110/14	20.0	5.825043	50.0	1162206.0	0.291252	Y
5	ICIS 410-199110/15	50.0	15.164271	50.0	1148377.0	0.303285	Y
6	IC 410-199110/16	100.0	31.432449	50.0	1133604.0	0.314324	Y
7	IC 410-199110/17	300.0	87.675612	50.0	1237315.0	0.292252	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

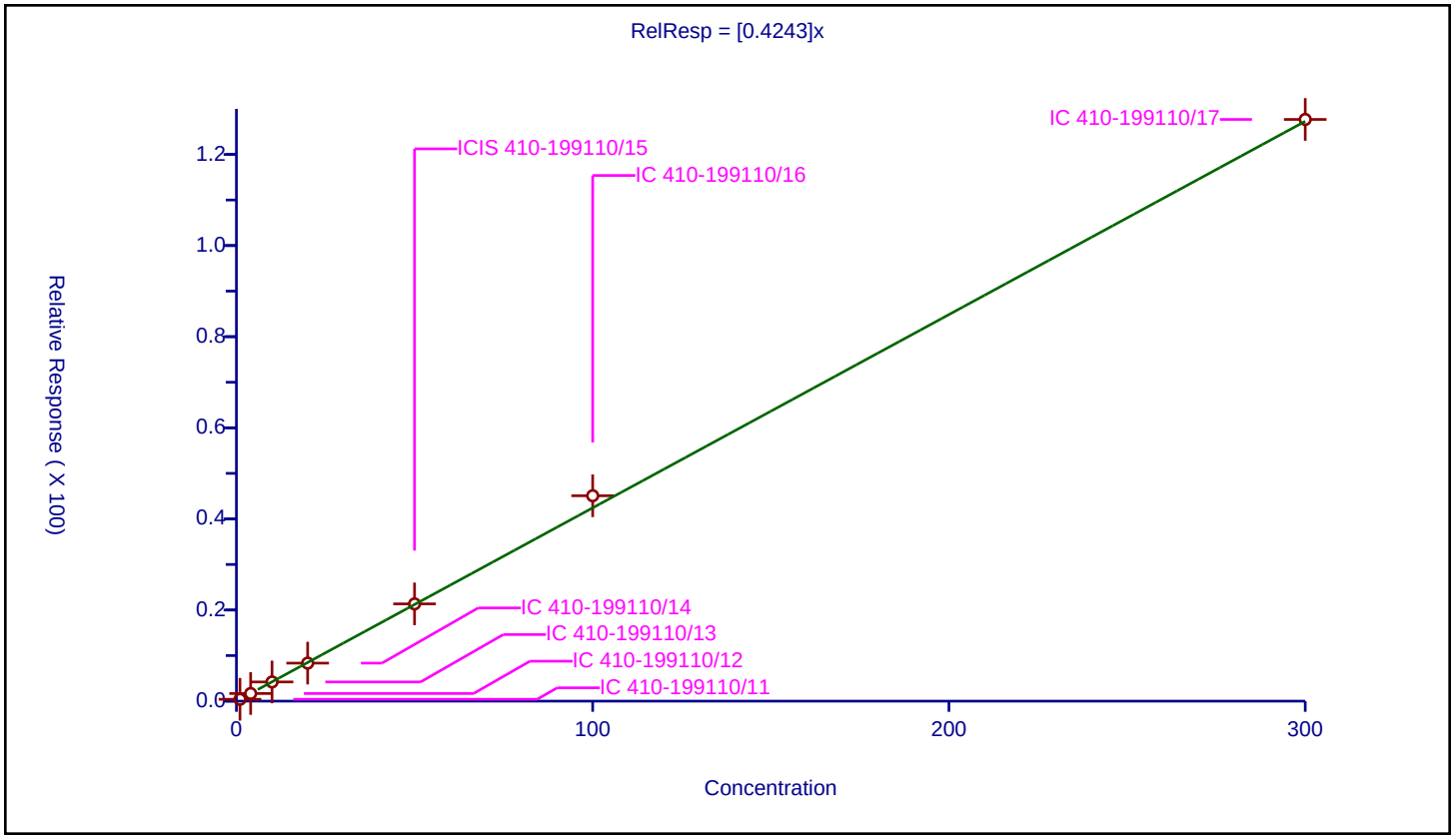
Curve Coefficients

Intercept:	0
Slope:	0.4243

Error Coefficients

Standard Error:	1370000
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 410-199110/11	1.0	0.40903	50.0	1116666.0	0.40903	Y
2	IC 410-199110/12	4.0	1.674444	50.0	1167492.0	0.418611	Y
3	IC 410-199110/13	10.0	4.214251	50.0	1104004.0	0.421425	Y
4	IC 410-199110/14	20.0	8.347487	50.0	1162206.0	0.417374	Y
5	ICIS 410-199110/15	50.0	21.346256	50.0	1148377.0	0.426925	Y
6	IC 410-199110/16	100.0	45.080513	50.0	1133604.0	0.450805	Y
7	IC 410-199110/17	300.0	127.686806	50.0	1237315.0	0.425623	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

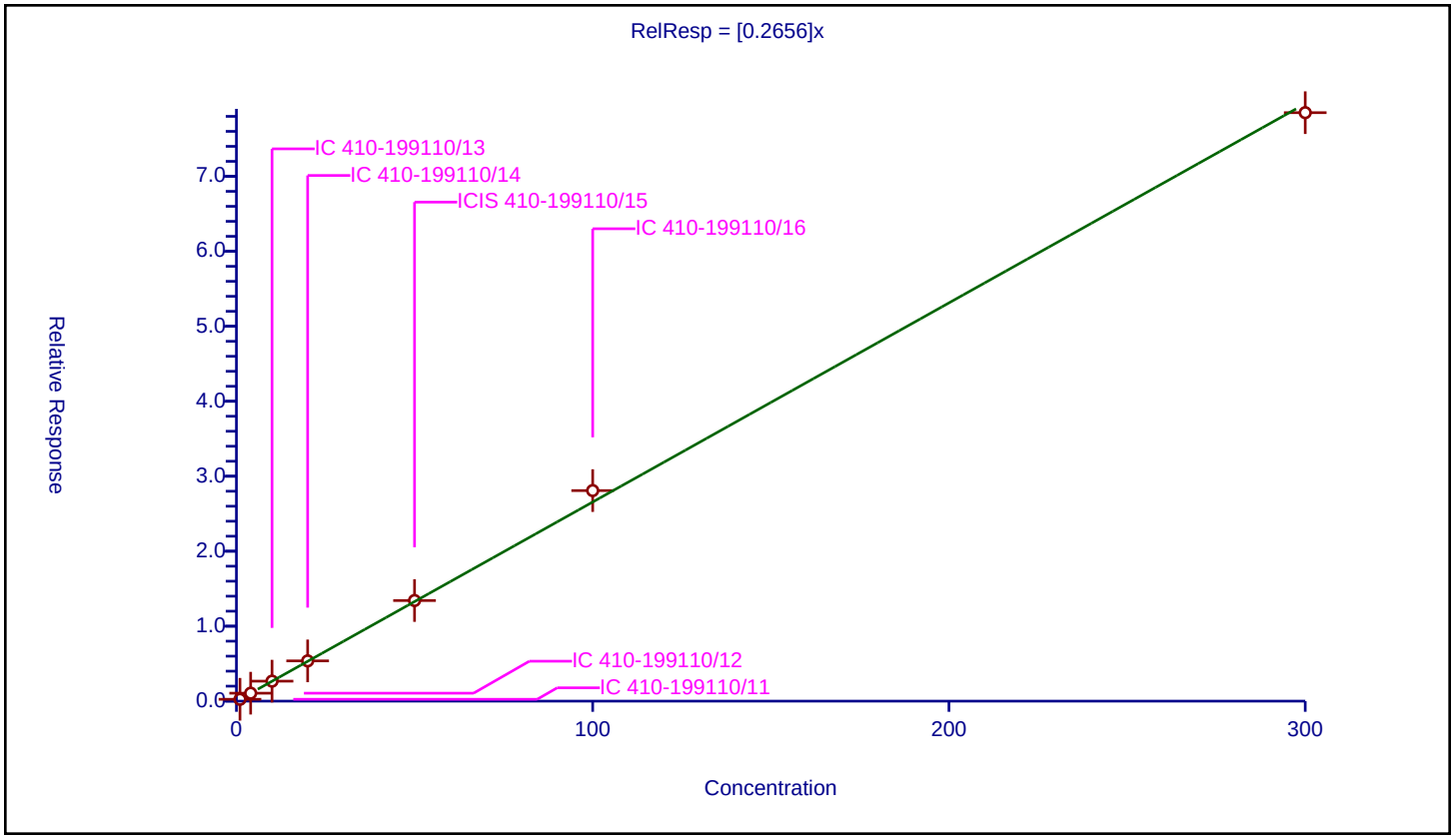
Curve Coefficients

Intercept:	0
Slope:	0.2656

Error Coefficients

Standard Error:	846000
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 410-199110/11	1.0	0.247836	50.0	1116666.0	0.247836	Y
2	IC 410-199110/12	4.0	1.061164	50.0	1167492.0	0.265291	Y
3	IC 410-199110/13	10.0	2.665932	50.0	1104004.0	0.266593	Y
4	IC 410-199110/14	20.0	5.370649	50.0	1162206.0	0.268532	Y
5	ICIS 410-199110/15	50.0	13.422117	50.0	1148377.0	0.268442	Y
6	IC 410-199110/16	100.0	28.086439	50.0	1133604.0	0.280864	Y
7	IC 410-199110/17	300.0	78.496624	50.0	1237315.0	0.261655	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

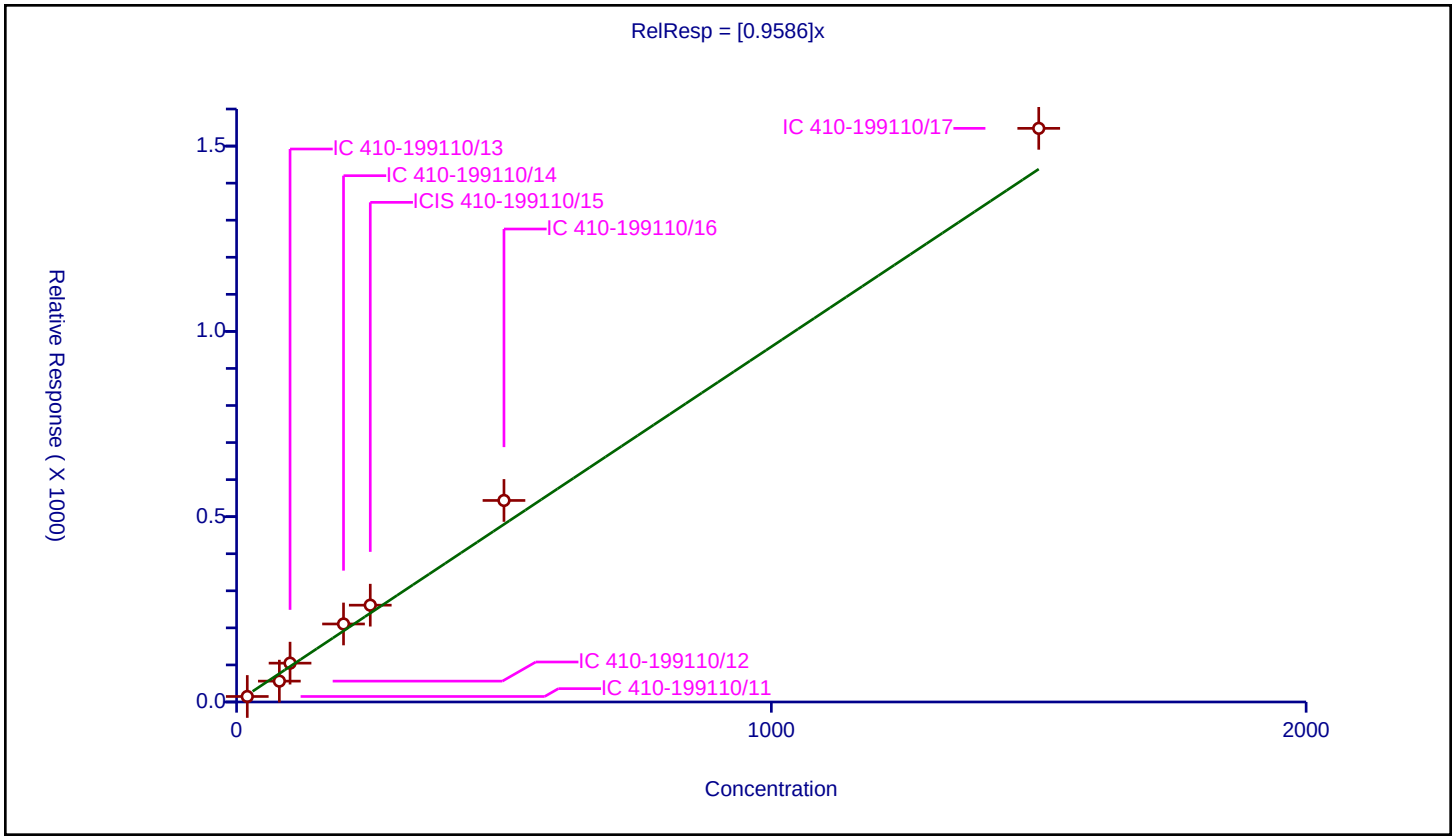
Curve Coefficients

Intercept:	0
Slope:	0.9586

Error Coefficients

Standard Error:	696000
Relative Standard Error:	16.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.968

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	20.0	14.825283	250.0	254211.0	0.741264	Y
2	IC 410-199110/12	80.0	56.322322	250.0	245258.0	0.704029	Y
3	IC 410-199110/13	100.0	104.784304	250.0	226940.0	1.047843	Y
4	IC 410-199110/14	200.0	210.467756	250.0	244914.0	1.052339	Y
5	ICIS 410-199110/15	250.0	261.255698	250.0	235614.0	1.045023	Y
6	IC 410-199110/16	500.0	543.820315	250.0	231371.0	1.087641	Y
7	IC 410-199110/17	1500.0	1547.851926	250.0	257696.0	1.031901	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

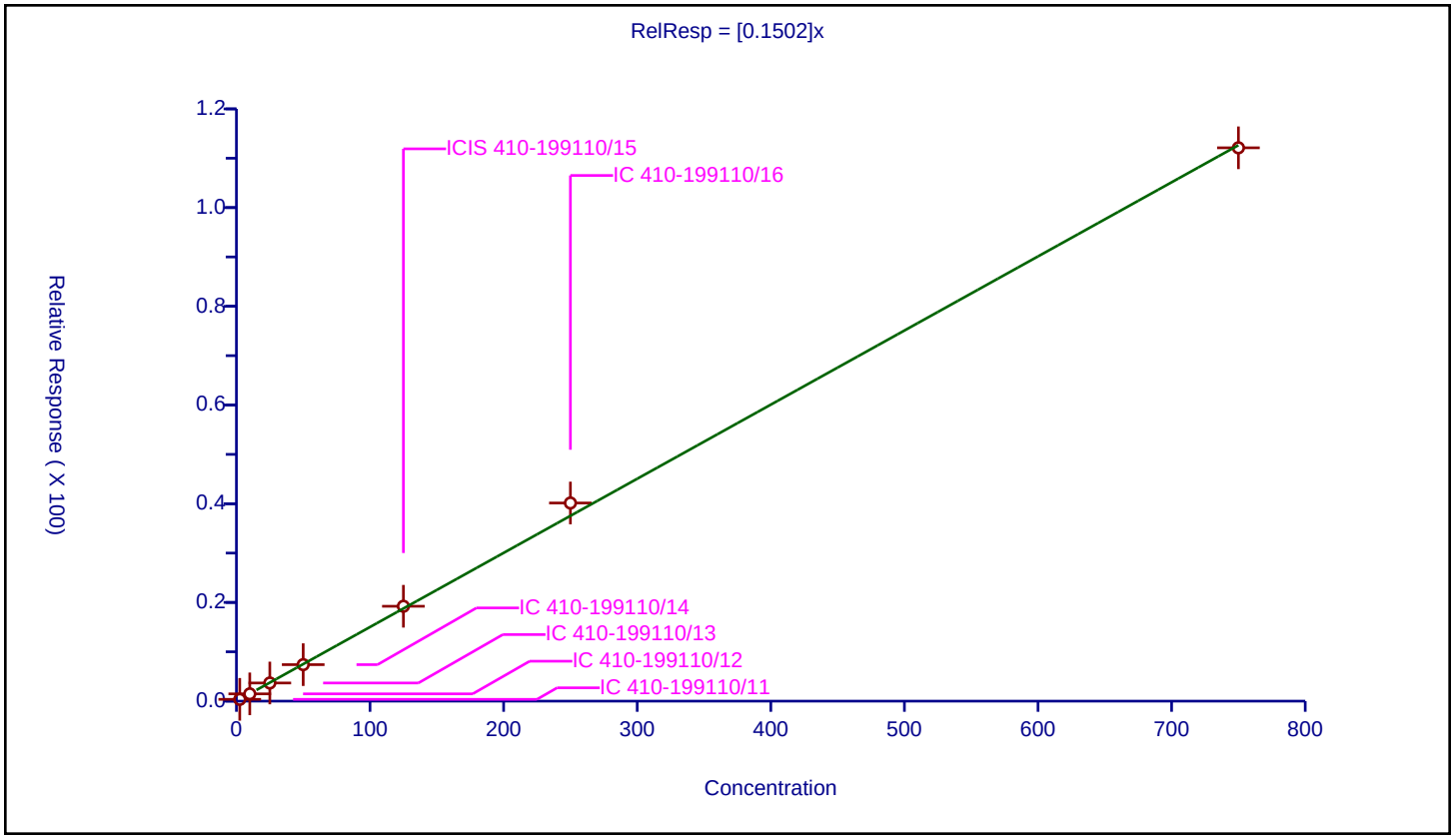
Curve Coefficients

Intercept:	0
Slope:	0.1502

Error Coefficients

Standard Error:	1210000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	2.5	0.362373	50.0	1116666.0	0.144949	Y
2	IC 410-199110/12	10.0	1.473543	50.0	1167492.0	0.147354	Y
3	IC 410-199110/13	25.0	3.68024	50.0	1104004.0	0.14721	Y
4	IC 410-199110/14	50.0	7.396795	50.0	1162206.0	0.147936	Y
5	ICIS 410-199110/15	125.0	19.223304	50.0	1148377.0	0.153786	Y
6	IC 410-199110/16	250.0	40.145236	50.0	1133604.0	0.160581	Y
7	IC 410-199110/17	750.0	112.113084	50.0	1237315.0	0.149484	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

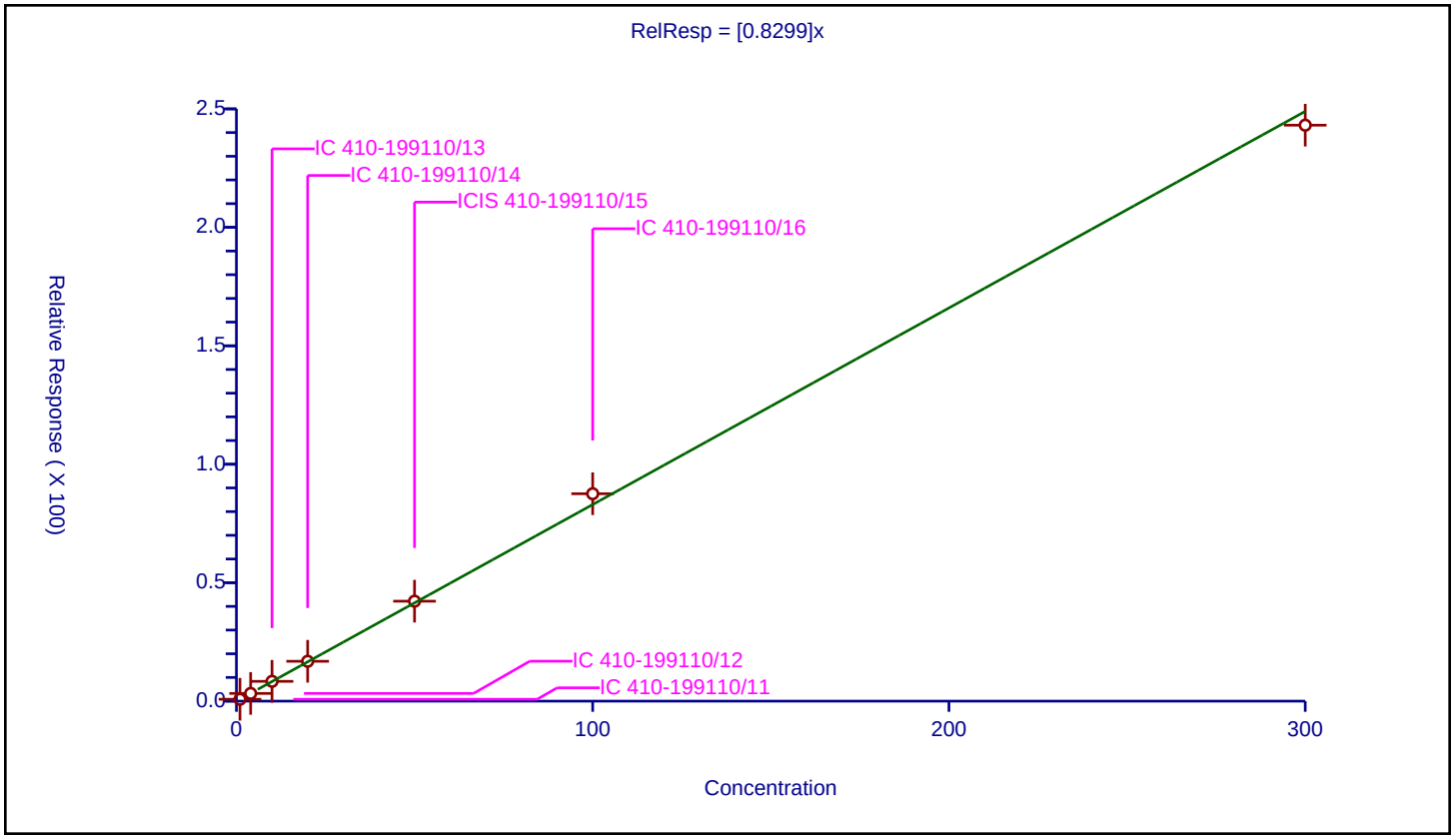
Curve Coefficients

Intercept:	0
Slope:	0.8299

Error Coefficients

Standard Error:	2620000
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 410-199110/11	1.0	0.788866	50.0	1116666.0	0.788866	Y
2	IC 410-199110/12	4.0	3.255868	50.0	1167492.0	0.813967	Y
3	IC 410-199110/13	10.0	8.354453	50.0	1104004.0	0.835445	Y
4	IC 410-199110/14	20.0	16.819609	50.0	1162206.0	0.84098	Y
5	ICIS 410-199110/15	50.0	42.189238	50.0	1148377.0	0.843785	Y
6	IC 410-199110/16	100.0	87.552487	50.0	1133604.0	0.875525	Y
7	IC 410-199110/17	300.0	243.124831	50.0	1237315.0	0.810416	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

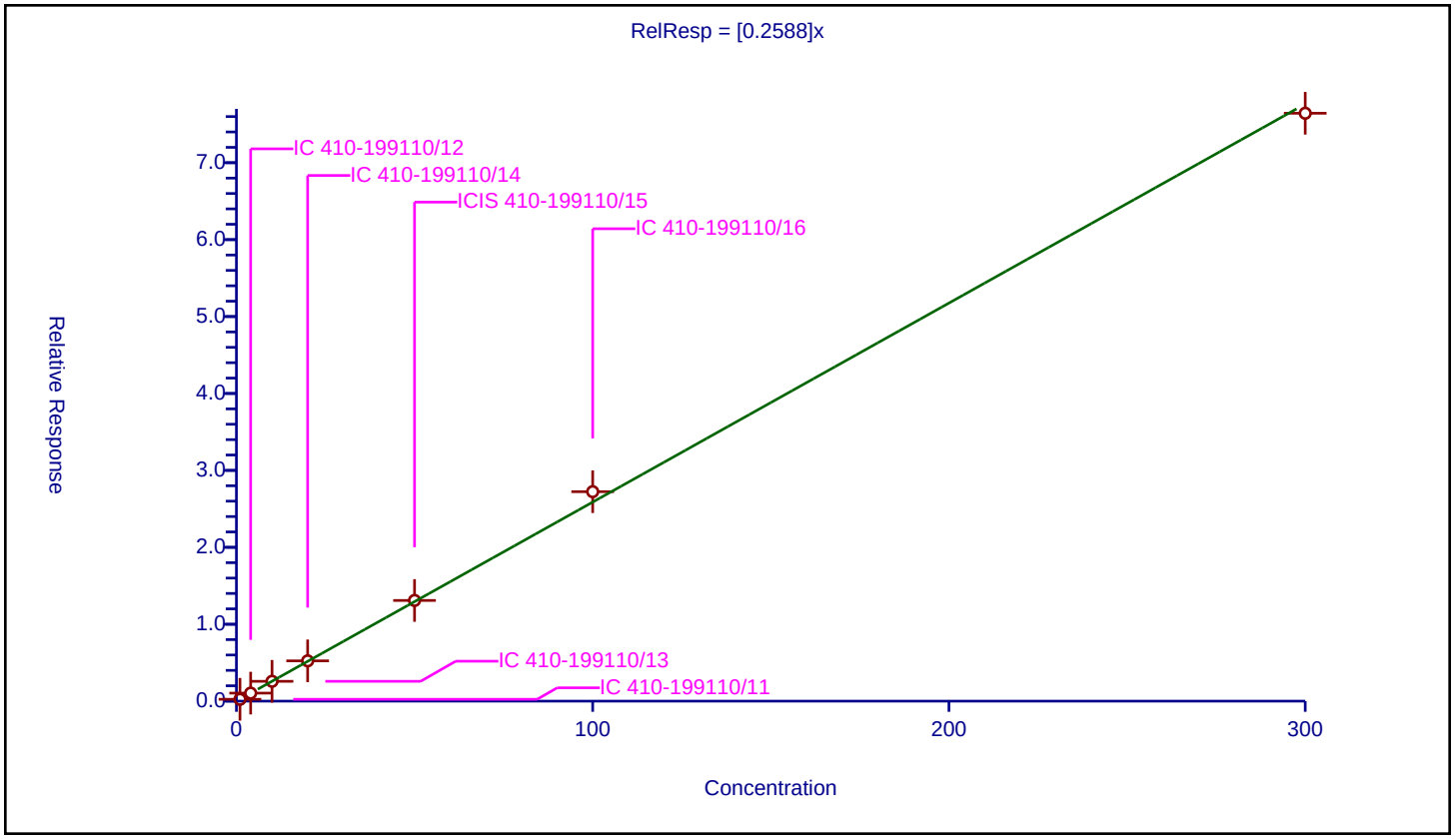
Curve Coefficients

Intercept:	0
Slope:	0.2588

Error Coefficients

Standard Error:	823000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.241746	50.0	1116666.0	0.241746	Y
2	IC 410-199110/12	4.0	1.04339	50.0	1167492.0	0.260848	Y
3	IC 410-199110/13	10.0	2.579429	50.0	1104004.0	0.257943	Y
4	IC 410-199110/14	20.0	5.238658	50.0	1162206.0	0.261933	Y
5	ICIS 410-199110/15	50.0	13.091345	50.0	1148377.0	0.261827	Y
6	IC 410-199110/16	100.0	27.231864	50.0	1133604.0	0.272319	Y
7	IC 410-199110/17	300.0	76.430699	50.0	1237315.0	0.254769	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

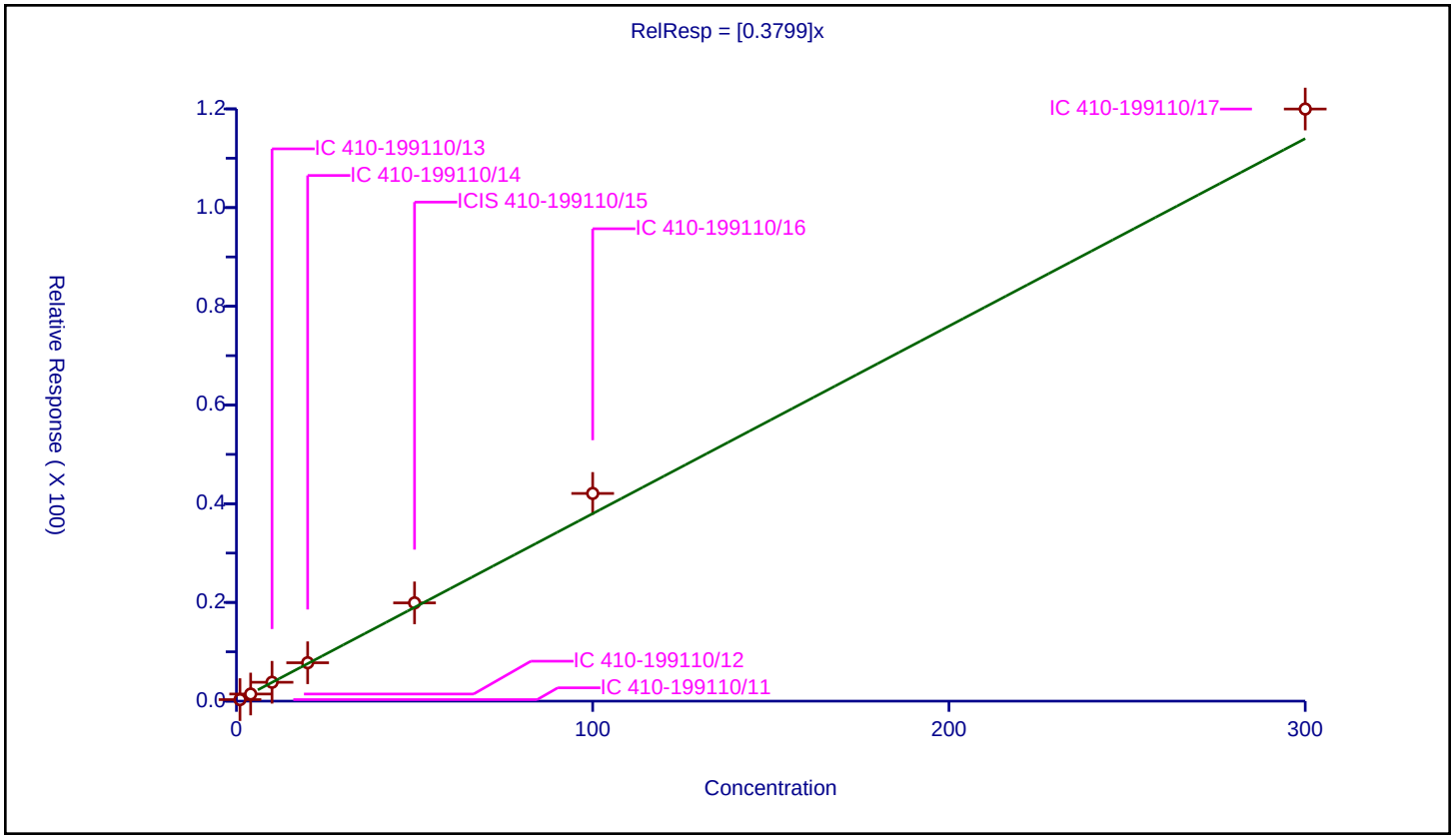
Curve Coefficients

Intercept:	0
Slope:	0.3799

Error Coefficients

Standard Error:	1290000
Relative Standard Error:	9.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.309179	50.0	1116666.0	0.309179	Y
2	IC 410-199110/12	4.0	1.441637	50.0	1167492.0	0.360409	Y
3	IC 410-199110/13	10.0	3.821001	50.0	1104004.0	0.3821	Y
4	IC 410-199110/14	20.0	7.777623	50.0	1162206.0	0.388881	Y
5	ICIS 410-199110/15	50.0	19.910926	50.0	1148377.0	0.398219	Y
6	IC 410-199110/16	100.0	42.085949	50.0	1133604.0	0.420859	Y
7	IC 410-199110/17	300.0	119.975148	50.0	1237315.0	0.399917	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

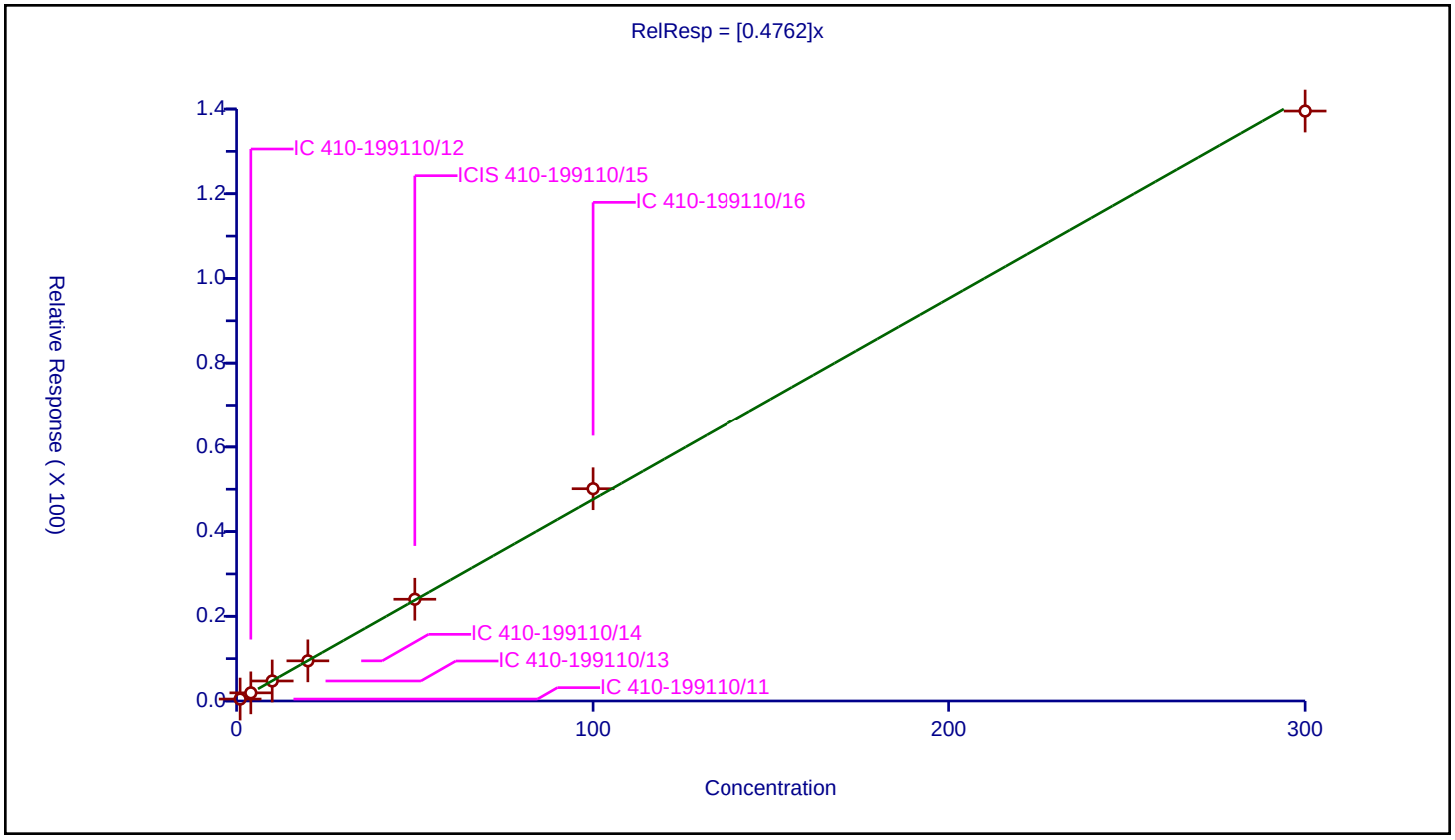
Curve Coefficients

Intercept:	0
Slope:	0.4762

Error Coefficients

Standard Error:	1500000
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 410-199110/11	1.0	0.458911	50.0	1116666.0	0.458911	Y
2	IC 410-199110/12	4.0	1.925238	50.0	1167492.0	0.48131	Y
3	IC 410-199110/13	10.0	4.723081	50.0	1104004.0	0.472308	Y
4	IC 410-199110/14	20.0	9.478096	50.0	1162206.0	0.473905	Y
5	ICIS 410-199110/15	50.0	24.019856	50.0	1148377.0	0.480397	Y
6	IC 410-199110/16	100.0	50.119398	50.0	1133604.0	0.501194	Y
7	IC 410-199110/17	300.0	139.522878	50.0	1237315.0	0.465076	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

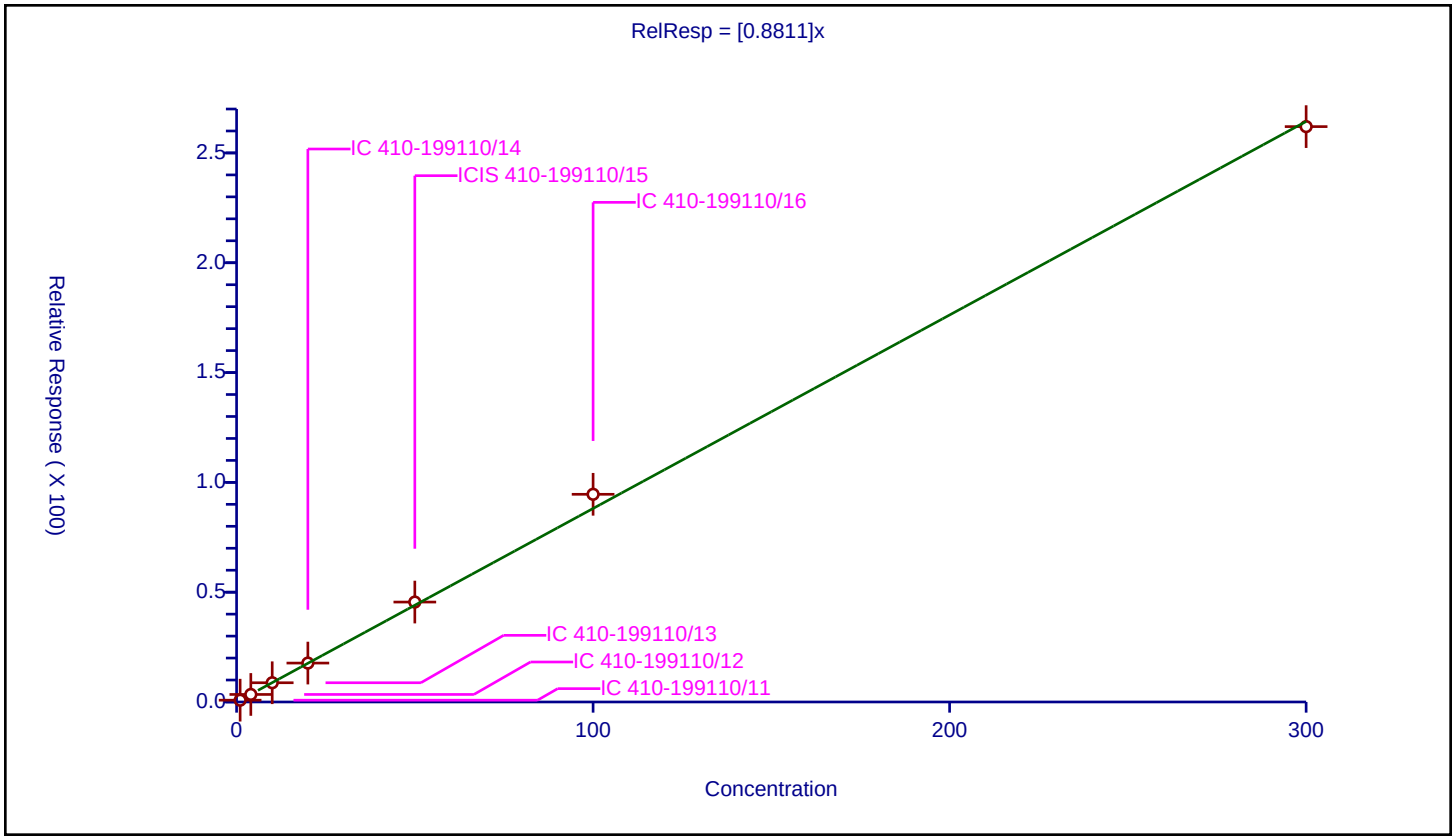
Curve Coefficients

Intercept:	0
Slope:	0.8811

Error Coefficients

Standard Error:	2830000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.818329	50.0	1116666.0	0.818329	Y
2	IC 410-199110/12	4.0	3.434756	50.0	1167492.0	0.858689	Y
3	IC 410-199110/13	10.0	8.757169	50.0	1104004.0	0.875717	Y
4	IC 410-199110/14	20.0	17.717642	50.0	1162206.0	0.885882	Y
5	ICIS 410-199110/15	50.0	45.503959	50.0	1148377.0	0.910079	Y
6	IC 410-199110/16	100.0	94.571032	50.0	1133604.0	0.94571	Y
7	IC 410-199110/17	300.0	261.980902	50.0	1237315.0	0.87327	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

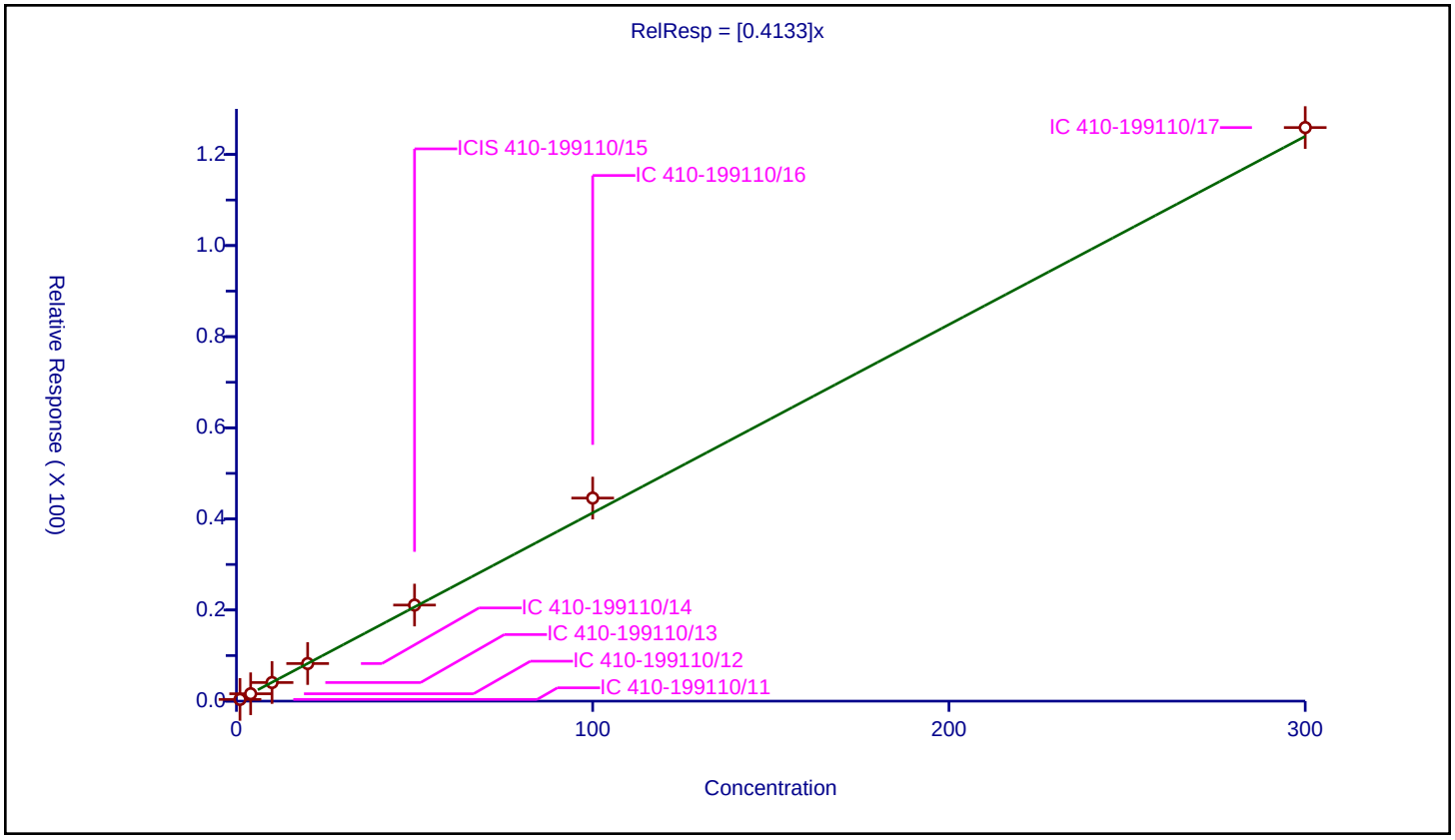
Curve Coefficients

Intercept:	0
Slope:	0.4133

Error Coefficients

Standard Error:	1350000
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 410-199110/11	1.0	0.37903	50.0	1116666.0	0.37903	Y
2	IC 410-199110/12	4.0	1.623651	50.0	1167492.0	0.405913	Y
3	IC 410-199110/13	10.0	4.082277	50.0	1104004.0	0.408228	Y
4	IC 410-199110/14	20.0	8.253227	50.0	1162206.0	0.412661	Y
5	ICIS 410-199110/15	50.0	21.089067	50.0	1148377.0	0.421781	Y
6	IC 410-199110/16	100.0	44.57337	50.0	1133604.0	0.445734	Y
7	IC 410-199110/17	300.0	125.901448	50.0	1237315.0	0.419671	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

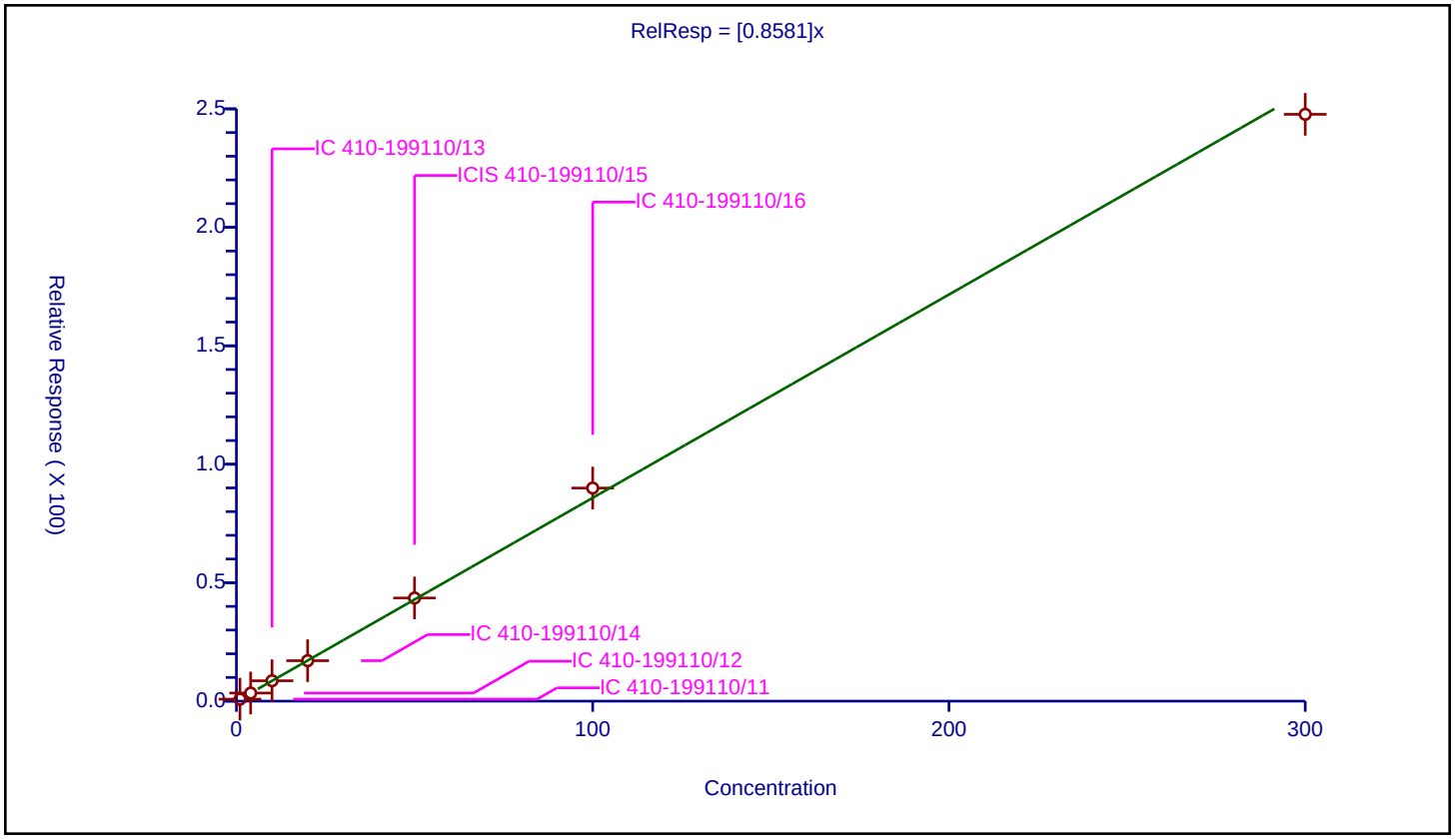
Curve Coefficients

Intercept:	0
Slope:	0.8581

Error Coefficients

Standard Error:	2670000
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 410-199110/11	1.0	0.839911	50.0	1116666.0	0.839911	Y
2	IC 410-199110/12	4.0	3.428075	50.0	1167492.0	0.857019	Y
3	IC 410-199110/13	10.0	8.602414	50.0	1104004.0	0.860241	Y
4	IC 410-199110/14	20.0	17.076018	50.0	1162206.0	0.853801	Y
5	ICIS 410-199110/15	50.0	43.543105	50.0	1148377.0	0.870862	Y
6	IC 410-199110/16	100.0	89.943402	50.0	1133604.0	0.899434	Y
7	IC 410-199110/17	300.0	247.70895	50.0	1237315.0	0.825697	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

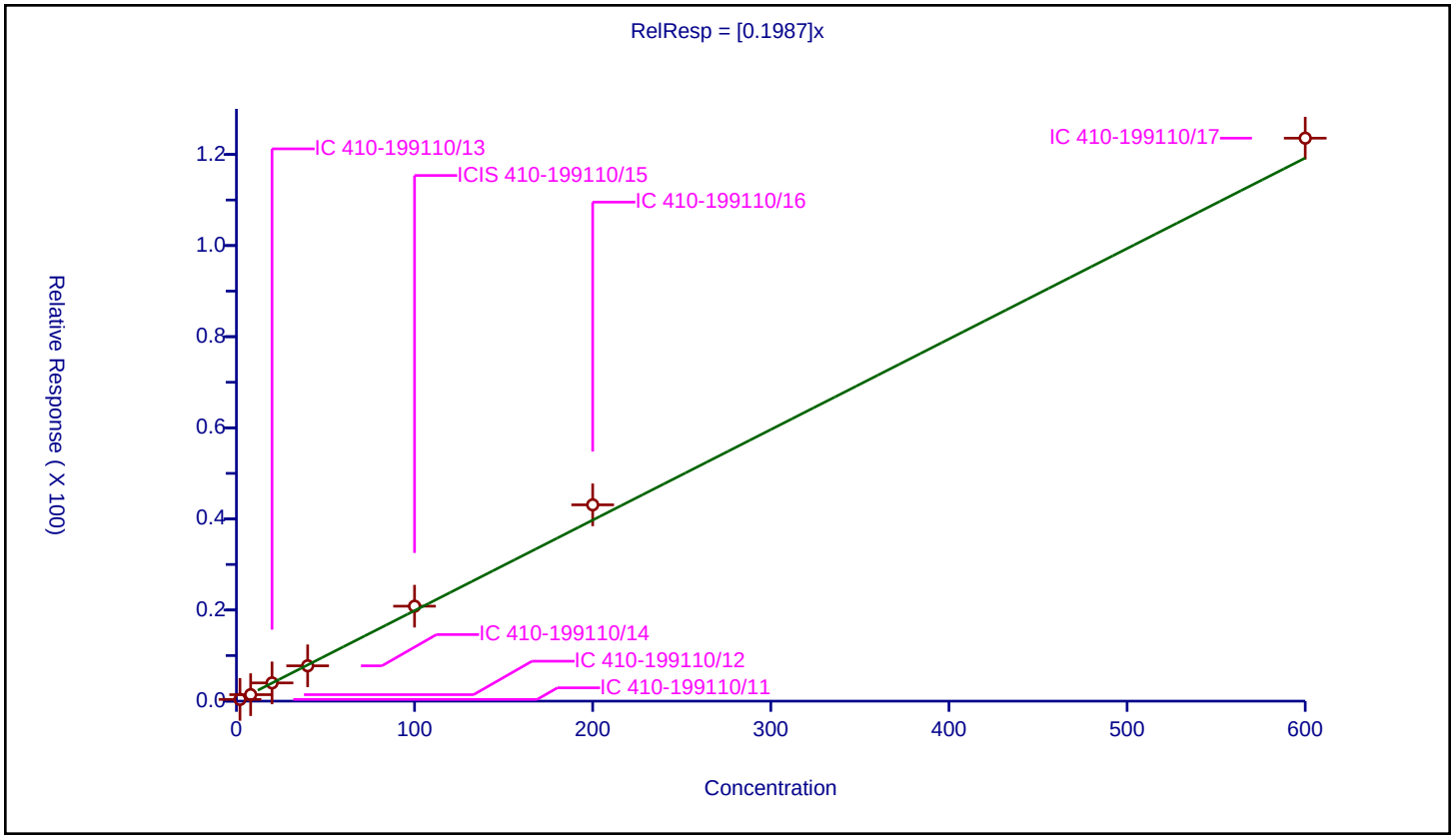
Curve Coefficients

Intercept:	0
Slope:	0.1987

Error Coefficients

Standard Error:	1330000
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 410-199110/11	2.0	0.378627	50.0	1116666.0	0.189314	Y
2	IC 410-199110/12	8.0	1.422751	50.0	1167492.0	0.177844	Y
3	IC 410-199110/13	20.0	3.999578	50.0	1104004.0	0.199979	Y
4	IC 410-199110/14	40.0	7.757317	50.0	1162206.0	0.193933	Y
5	ICIS 410-199110/15	100.0	20.842937	50.0	1148377.0	0.208429	Y
6	IC 410-199110/16	200.0	43.089915	50.0	1133604.0	0.21545	Y
7	IC 410-199110/17	600.0	123.57407	50.0	1237315.0	0.205957	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

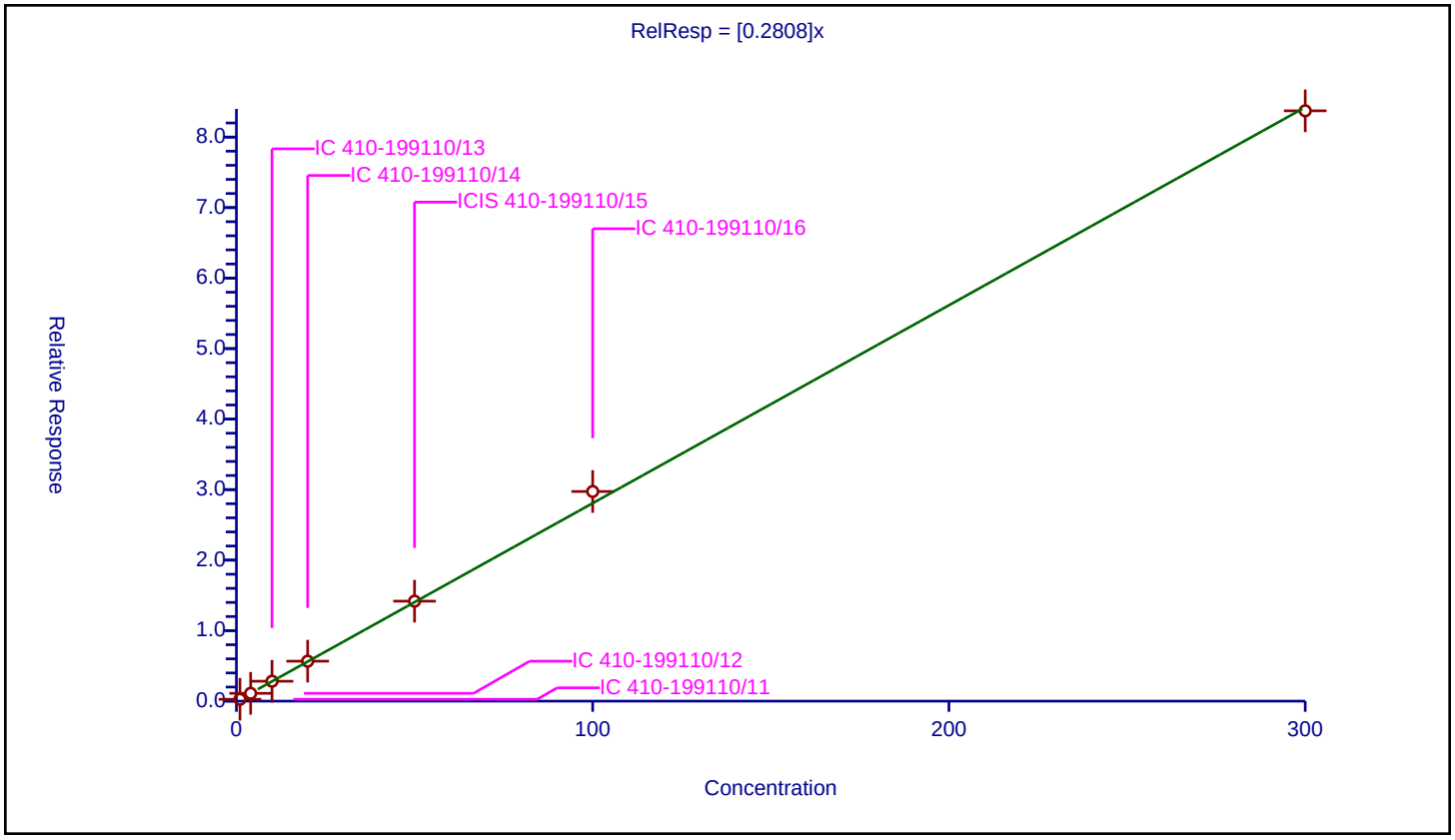
Curve Coefficients

Intercept:	0
Slope:	0.2808

Error Coefficients

Standard Error:	901000
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 410-199110/11	1.0	0.262612	50.0	1116666.0	0.262612	Y
2	IC 410-199110/12	4.0	1.108102	50.0	1167492.0	0.277025	Y
3	IC 410-199110/13	10.0	2.822046	50.0	1104004.0	0.282205	Y
4	IC 410-199110/14	20.0	5.66952	50.0	1162206.0	0.283476	Y
5	ICIS 410-199110/15	50.0	14.178793	50.0	1148377.0	0.283576	Y
6	IC 410-199110/16	100.0	29.733575	50.0	1133604.0	0.297336	Y
7	IC 410-199110/17	300.0	83.726416	50.0	1237315.0	0.279088	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

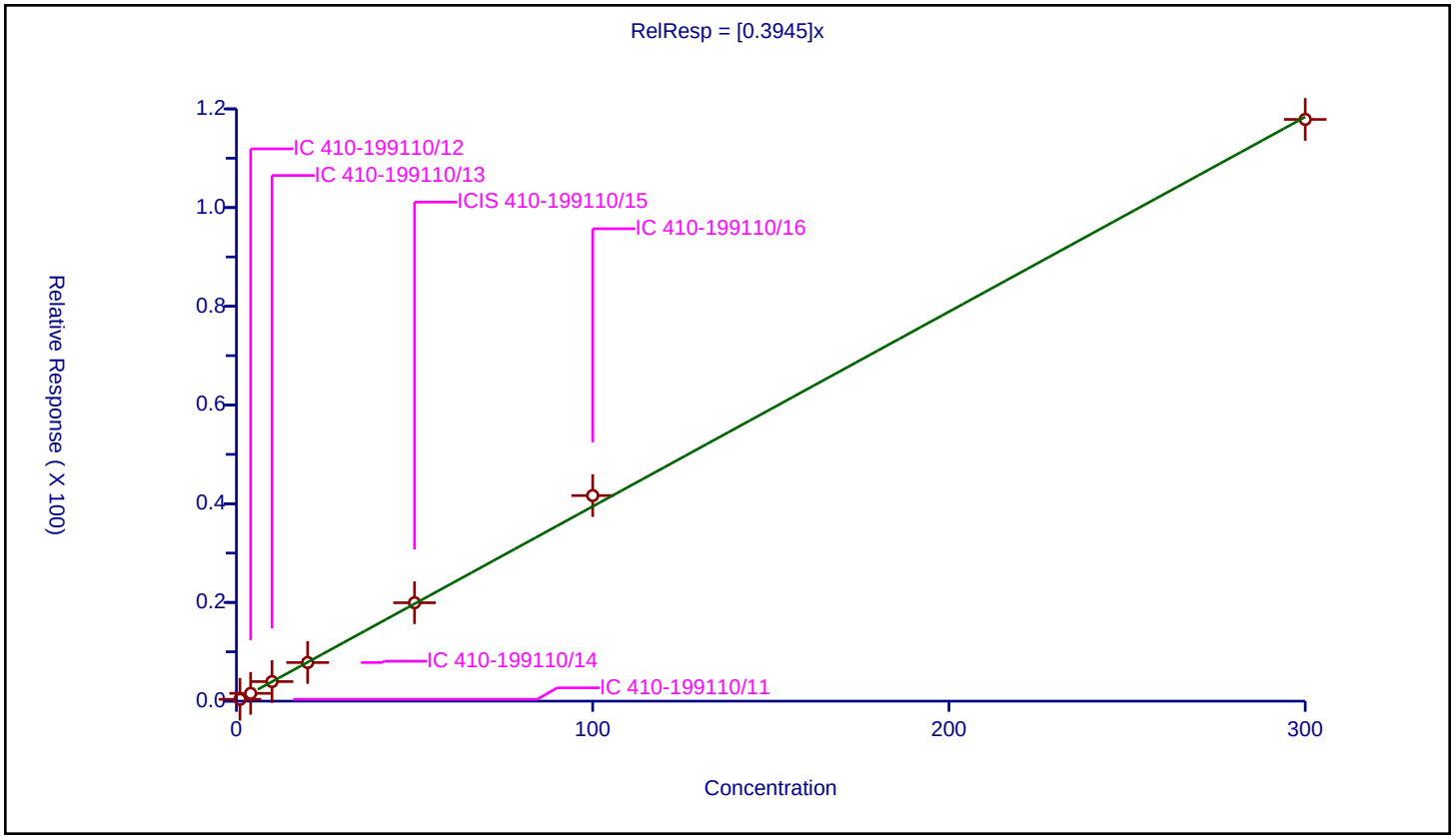
Curve Coefficients

Intercept:	0
Slope:	0.3945

Error Coefficients

Standard Error:	1270000
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 410-199110/11	1.0	0.371732	50.0	1116666.0	0.371732	Y
2	IC 410-199110/12	4.0	1.578084	50.0	1167492.0	0.394521	Y
3	IC 410-199110/13	10.0	3.962259	50.0	1104004.0	0.396226	Y
4	IC 410-199110/14	20.0	7.819612	50.0	1162206.0	0.390981	Y
5	ICIS 410-199110/15	50.0	19.936702	50.0	1148377.0	0.398734	Y
6	IC 410-199110/16	100.0	41.652949	50.0	1133604.0	0.416529	Y
7	IC 410-199110/17	300.0	117.869661	50.0	1237315.0	0.392899	Y



Calibration / Propionitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

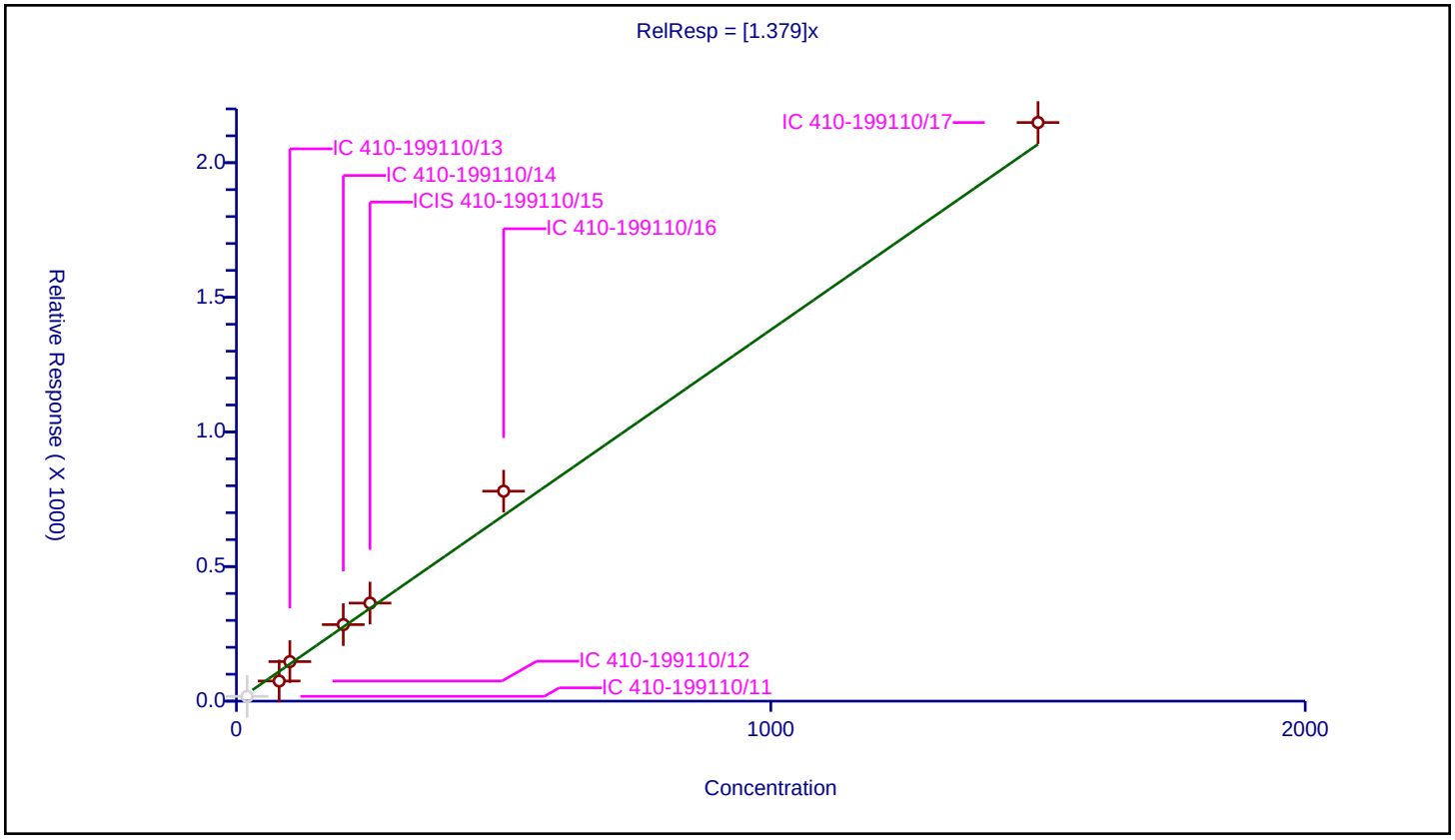
Curve Coefficients

Intercept:	0
Slope:	1.379

Error Coefficients

Standard Error:	1060000
Relative Standard Error:	16.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.954

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	20.0	17.729367	250.0	254211.0	0.886468	N
2	IC 410-199110/12	80.0	74.841595	250.0	245258.0	0.93552	Y
3	IC 410-199110/13	100.0	146.889046	250.0	226940.0	1.46889	Y
4	IC 410-199110/14	200.0	284.244674	250.0	244914.0	1.421223	Y
5	ICIS 410-199110/15	250.0	364.199496	250.0	235614.0	1.456798	Y
6	IC 410-199110/16	500.0	780.013485	250.0	231371.0	1.560027	Y
7	IC 410-199110/17	1500.0	2149.357188	250.0	257696.0	1.432905	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

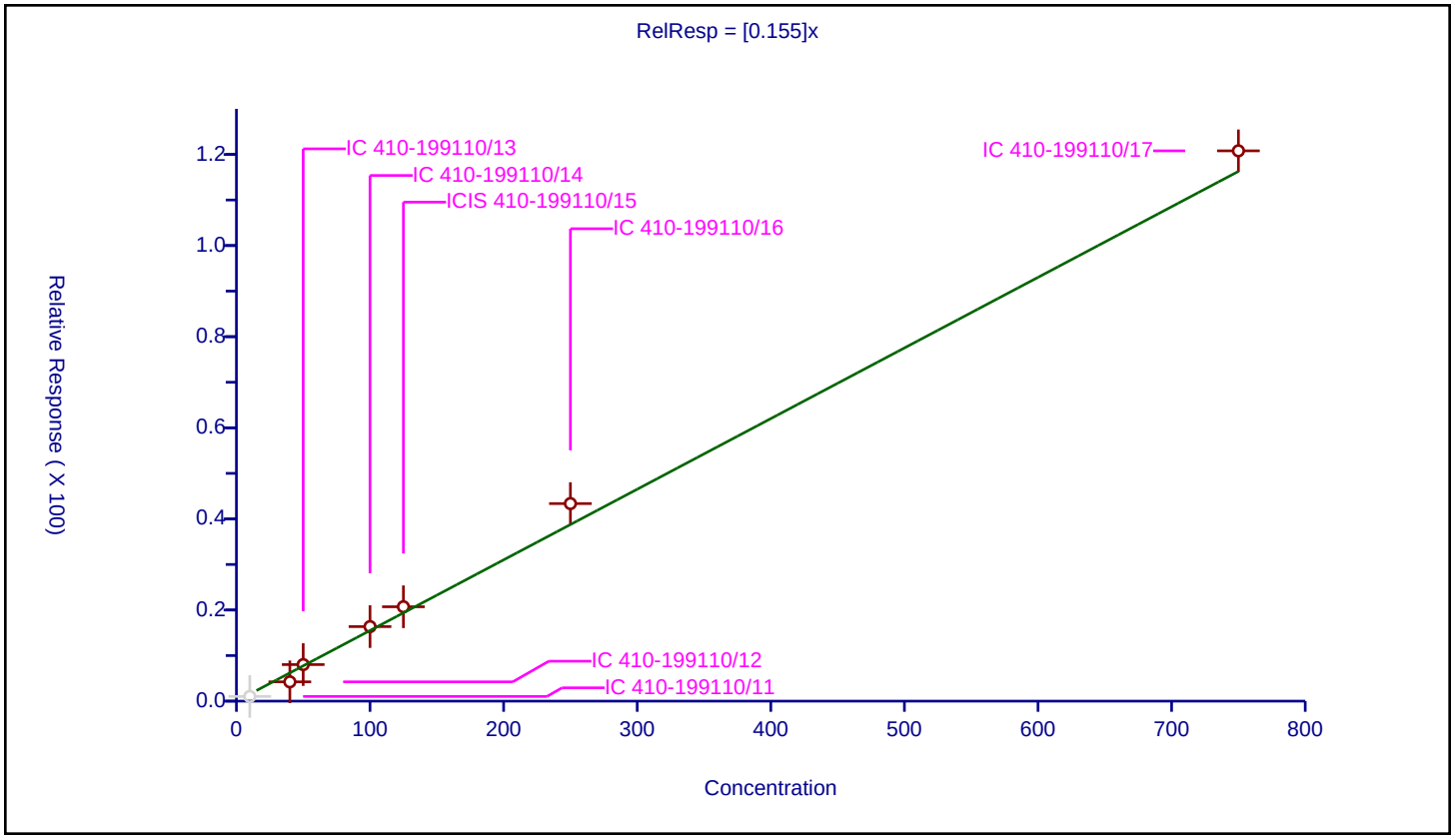
Curve Coefficients

Intercept:	0
Slope:	0.155

Error Coefficients

Standard Error:	1440000
Relative Standard Error:	15.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.956

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	10.0	1.032404	50.0	1116666.0	0.10324	N
2	IC 410-199110/12	40.0	4.237716	50.0	1167492.0	0.105943	Y
3	IC 410-199110/13	50.0	8.021302	50.0	1104004.0	0.160426	Y
4	IC 410-199110/14	100.0	16.363321	50.0	1162206.0	0.163633	Y
5	ICIS 410-199110/15	125.0	20.715105	50.0	1148377.0	0.165721	Y
6	IC 410-199110/16	250.0	43.367349	50.0	1133604.0	0.173469	Y
7	IC 410-199110/17	750.0	120.794422	50.0	1237315.0	0.161059	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

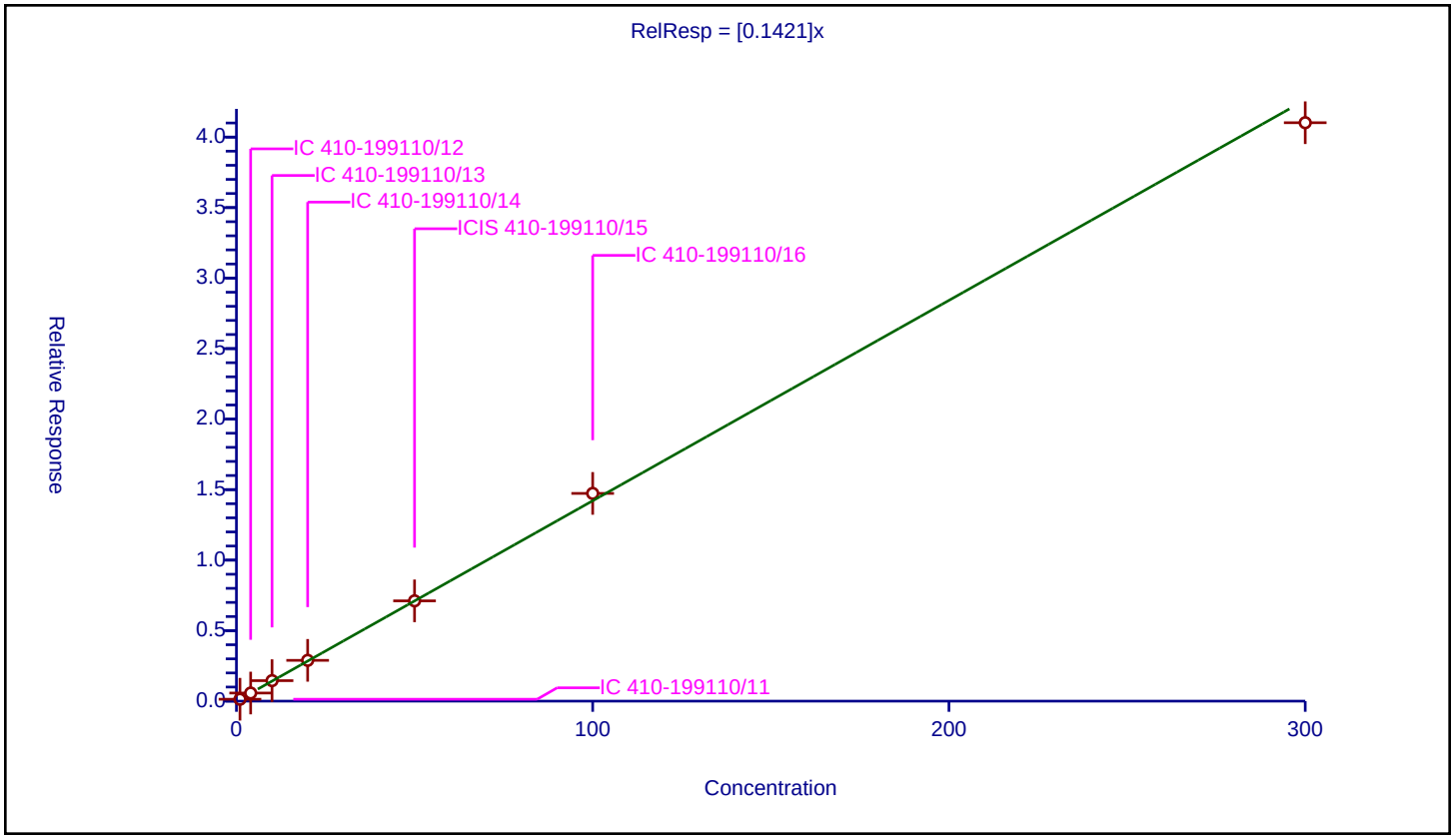
Curve Coefficients

Intercept:	0
Slope:	0.1421

Error Coefficients

Standard Error:	442000
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 410-199110/11	1.0	0.134955	50.0	1116666.0	0.134955	Y
2	IC 410-199110/12	4.0	0.574308	50.0	1167492.0	0.143577	Y
3	IC 410-199110/13	10.0	1.452848	50.0	1104004.0	0.145285	Y
4	IC 410-199110/14	20.0	2.891957	50.0	1162206.0	0.144598	Y
5	ICIS 410-199110/15	50.0	7.111907	50.0	1148377.0	0.142238	Y
6	IC 410-199110/16	100.0	14.731776	50.0	1133604.0	0.147318	Y
7	IC 410-199110/17	300.0	41.019829	50.0	1237315.0	0.136733	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

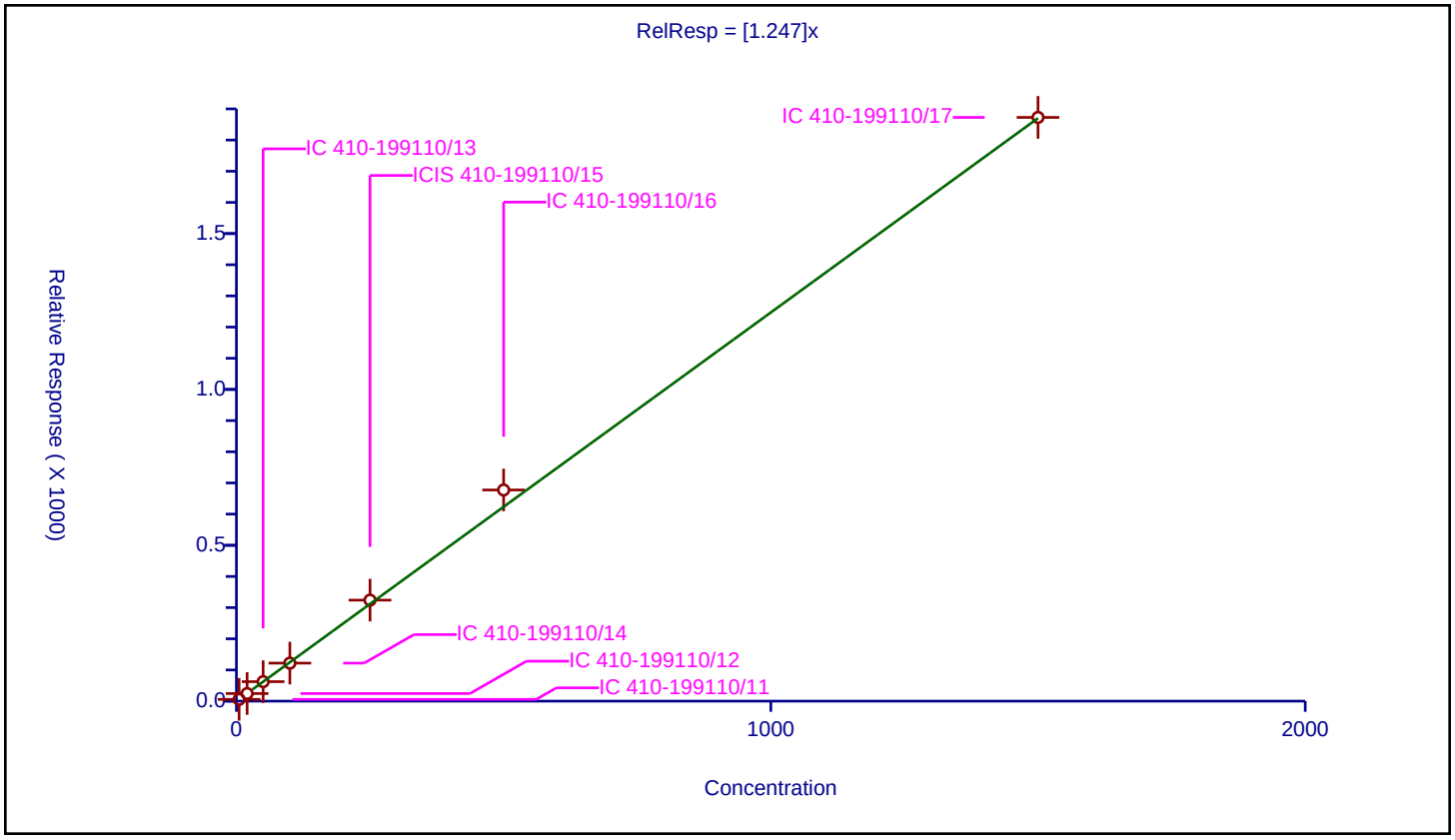
Curve Coefficients

Intercept:	0
Slope:	1.247

Error Coefficients

Standard Error:	839000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	5.0	5.692122	250.0	254211.0	1.138424	Y
2	IC 410-199110/12	20.0	24.403893	250.0	245258.0	1.220195	Y
3	IC 410-199110/13	50.0	62.513219	250.0	226940.0	1.250264	Y
4	IC 410-199110/14	100.0	121.940763	250.0	244914.0	1.219408	Y
5	ICIS 410-199110/15	250.0	324.086217	250.0	235614.0	1.296345	Y
6	IC 410-199110/16	500.0	677.48551	250.0	231371.0	1.354971	Y
7	IC 410-199110/17	1500.0	1872.628989	250.0	257696.0	1.248419	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

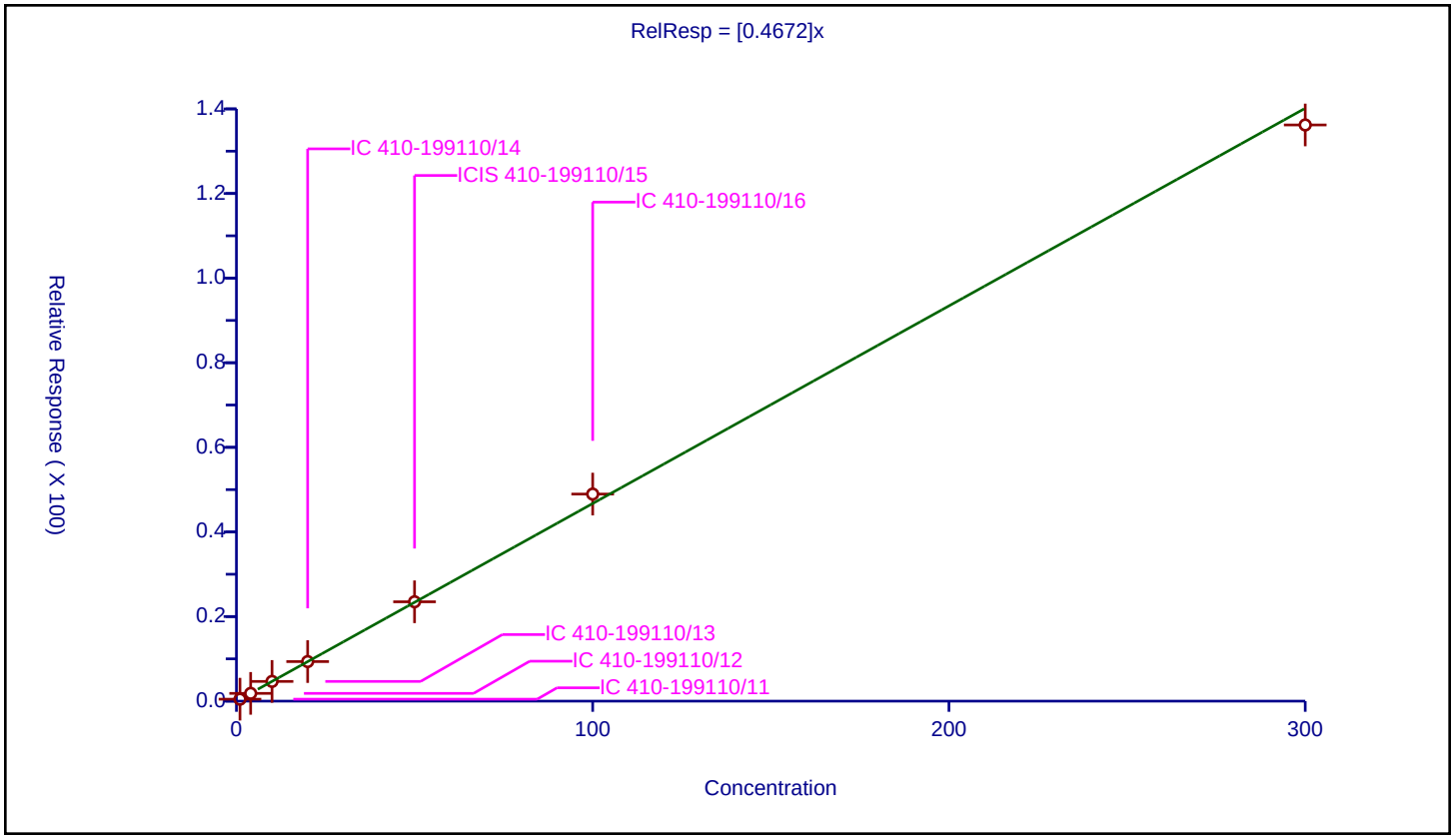
Curve Coefficients

Intercept:	0
Slope:	0.4672

Error Coefficients

Standard Error:	1470000
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 410-199110/11	1.0	0.463926	50.0	1116666.0	0.463926	Y
2	IC 410-199110/12	4.0	1.835473	50.0	1167492.0	0.458868	Y
3	IC 410-199110/13	10.0	4.663615	50.0	1104004.0	0.466362	Y
4	IC 410-199110/14	20.0	9.352559	50.0	1162206.0	0.467628	Y
5	ICIS 410-199110/15	50.0	23.48902	50.0	1148377.0	0.46978	Y
6	IC 410-199110/16	100.0	48.950471	50.0	1133604.0	0.489505	Y
7	IC 410-199110/17	300.0	136.201452	50.0	1237315.0	0.454005	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

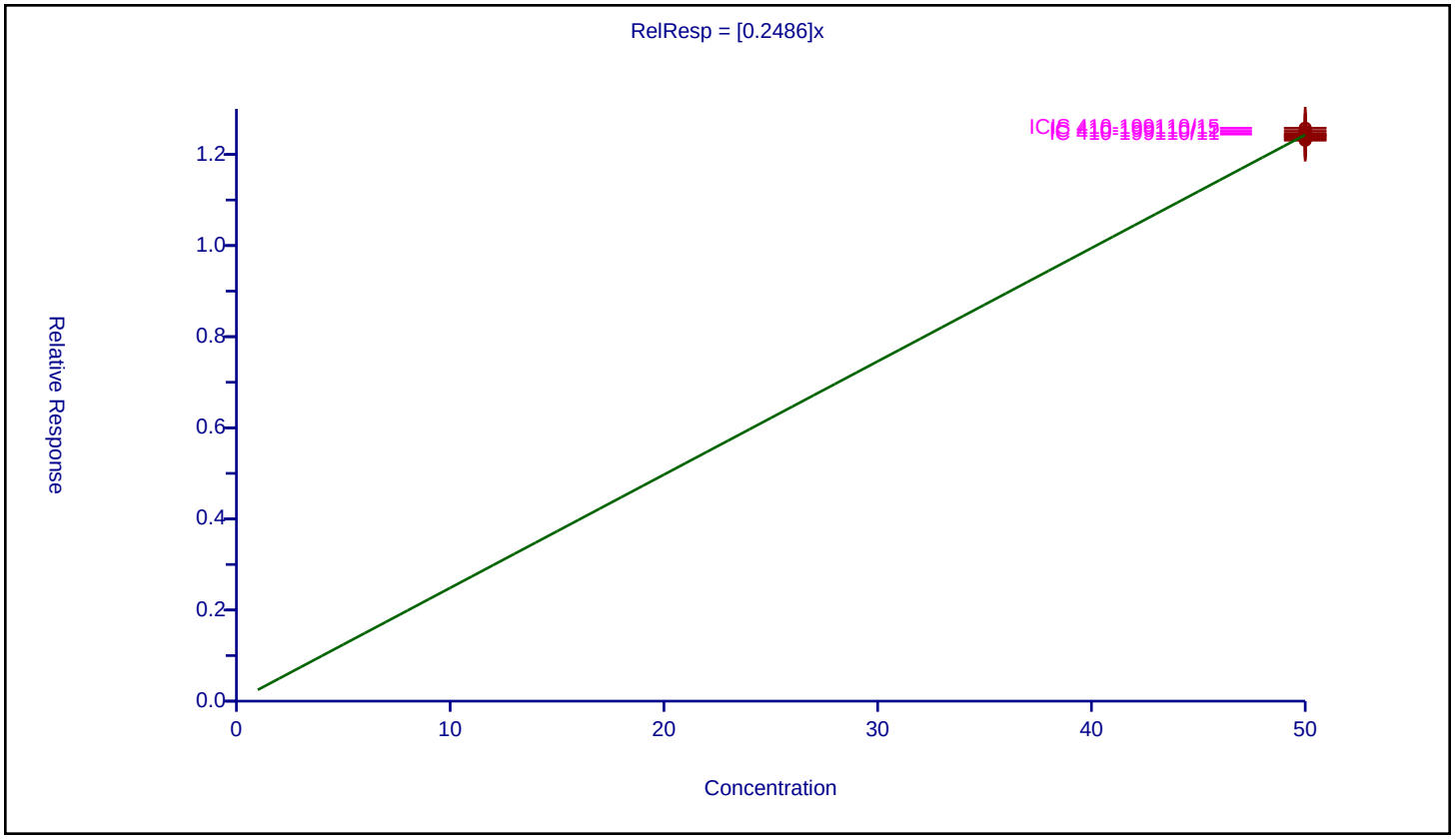
Curve Coefficients

Intercept:	0
Slope:	0.2486

Error Coefficients

Standard Error:	310000
Relative Standard Error:	0.7
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	50.0	12.447052	50.0	1116666.0	0.248941	Y
2	IC 410-199110/12	50.0	12.50758	50.0	1167492.0	0.250152	Y
3	IC 410-199110/13	50.0	12.423777	50.0	1104004.0	0.248476	Y
4	IC 410-199110/14	50.0	12.393844	50.0	1162206.0	0.247877	Y
5	ICIS 410-199110/15	50.0	12.574877	50.0	1148377.0	0.251498	Y
6	IC 410-199110/16	50.0	12.352726	50.0	1133604.0	0.247055	Y
7	IC 410-199110/17	50.0	12.312952	50.0	1237315.0	0.246259	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

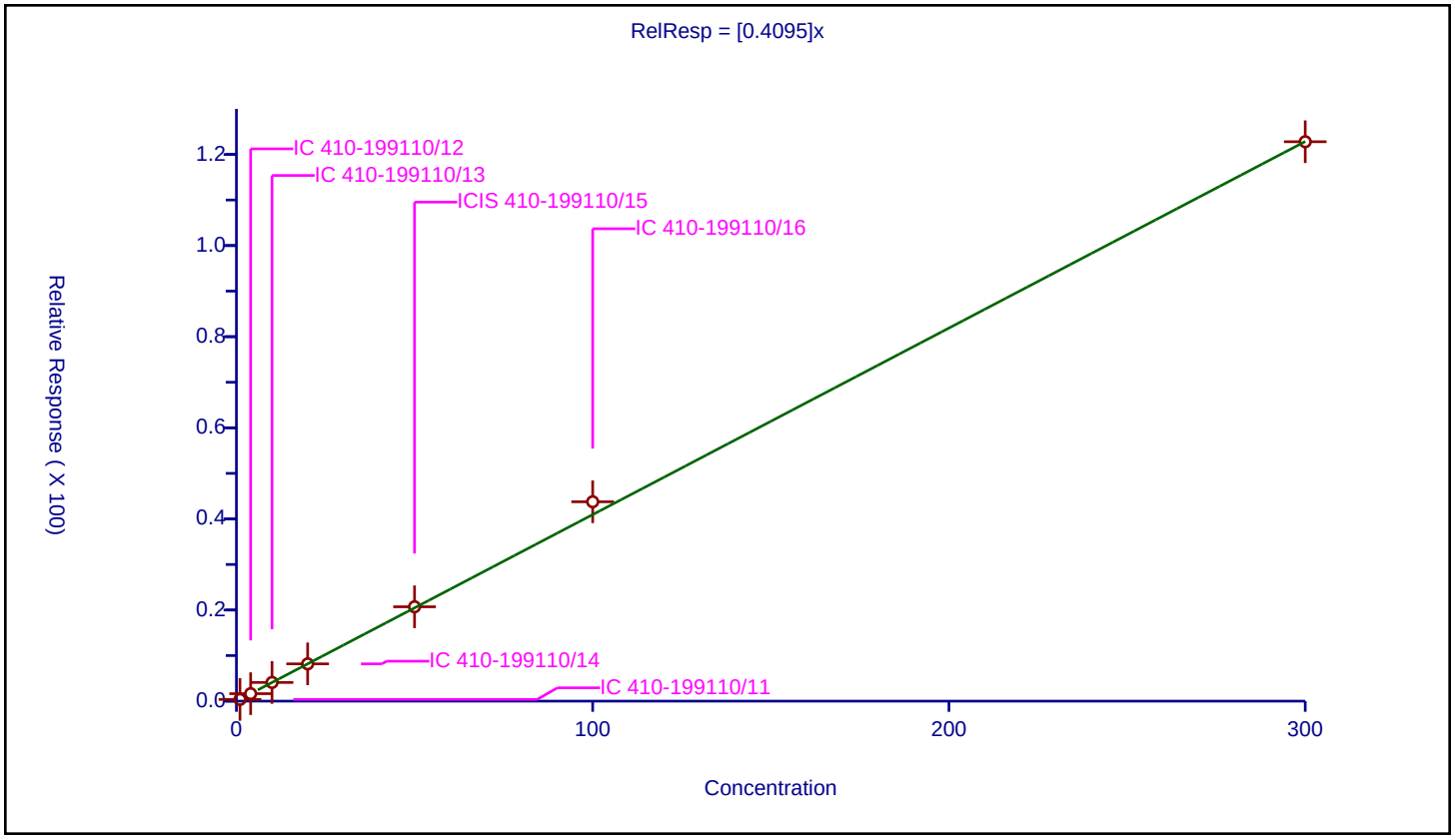
Curve Coefficients

Intercept:	0
Slope:	0.4095

Error Coefficients

Standard Error:	1320000
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 410-199110/11	1.0	0.376567	50.0	1116666.0	0.376567	Y
2	IC 410-199110/12	4.0	1.638469	50.0	1167492.0	0.409617	Y
3	IC 410-199110/13	10.0	4.0984	50.0	1104004.0	0.40984	Y
4	IC 410-199110/14	20.0	8.181639	50.0	1162206.0	0.409082	Y
5	ICIS 410-199110/15	50.0	20.710185	50.0	1148377.0	0.414204	Y
6	IC 410-199110/16	100.0	43.762593	50.0	1133604.0	0.437626	Y
7	IC 410-199110/17	300.0	122.790357	50.0	1237315.0	0.409301	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

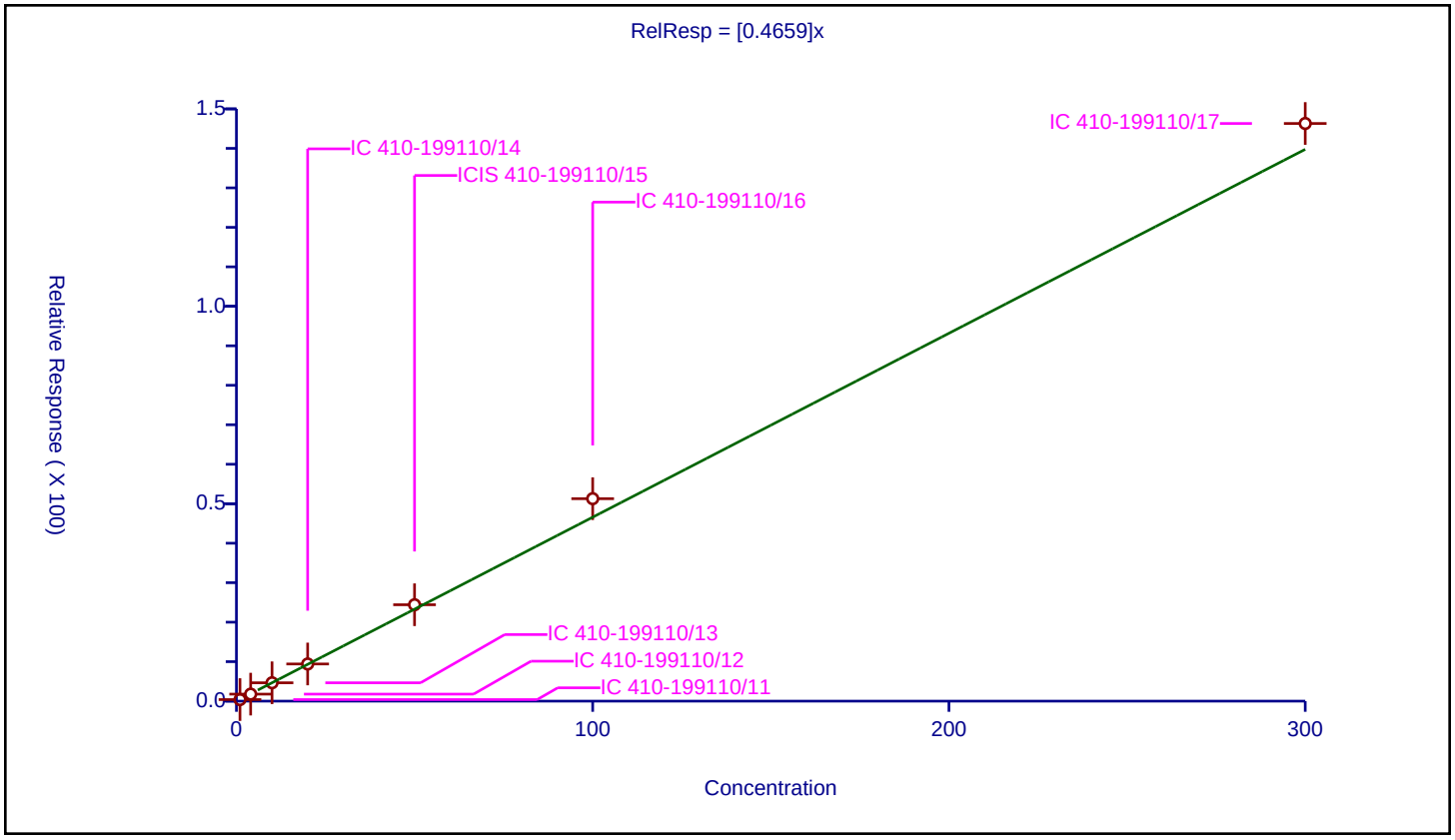
Curve Coefficients

Intercept:	0
Slope:	0.4659

Error Coefficients

Standard Error:	1570000
Relative Standard Error:	8.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.391567	50.0	1116666.0	0.391567	Y
2	IC 410-199110/12	4.0	1.779712	50.0	1167492.0	0.444928	Y
3	IC 410-199110/13	10.0	4.650255	50.0	1104004.0	0.465025	Y
4	IC 410-199110/14	20.0	9.413693	50.0	1162206.0	0.470685	Y
5	ICIS 410-199110/15	50.0	24.418114	50.0	1148377.0	0.488362	Y
6	IC 410-199110/16	100.0	51.273813	50.0	1133604.0	0.512738	Y
7	IC 410-199110/17	300.0	146.300578	50.0	1237315.0	0.487669	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

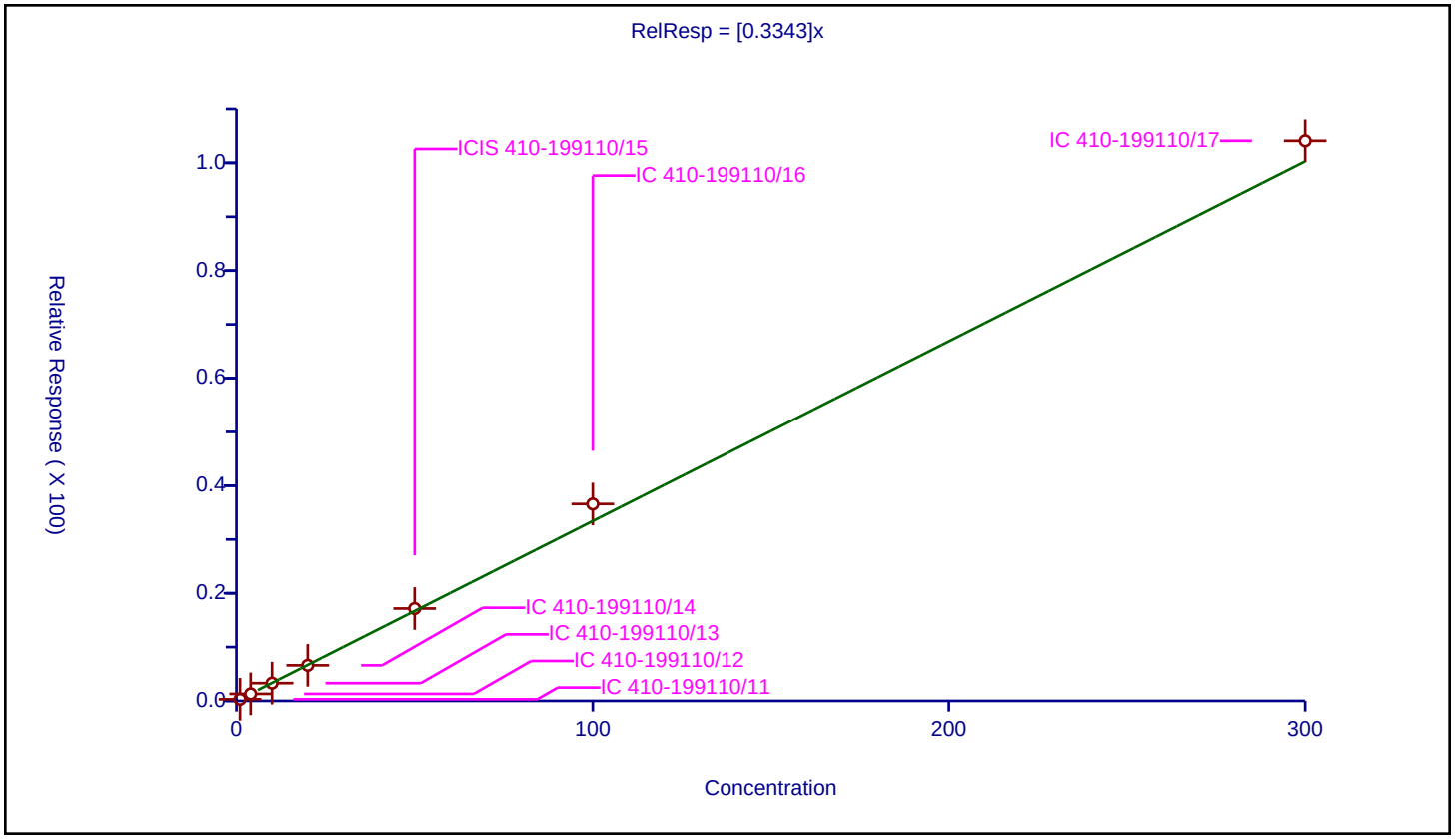
Curve Coefficients

Intercept:	0
Slope:	0.3343

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.298299	50.0	1116666.0	0.298299	Y
2	IC 410-199110/12	4.0	1.301722	50.0	1167492.0	0.32543	Y
3	IC 410-199110/13	10.0	3.296455	50.0	1104004.0	0.329646	Y
4	IC 410-199110/14	20.0	6.607133	50.0	1162206.0	0.330357	Y
5	ICIS 410-199110/15	50.0	17.169449	50.0	1148377.0	0.343389	Y
6	IC 410-199110/16	100.0	36.594437	50.0	1133604.0	0.365944	Y
7	IC 410-199110/17	300.0	104.096814	50.0	1237315.0	0.346989	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

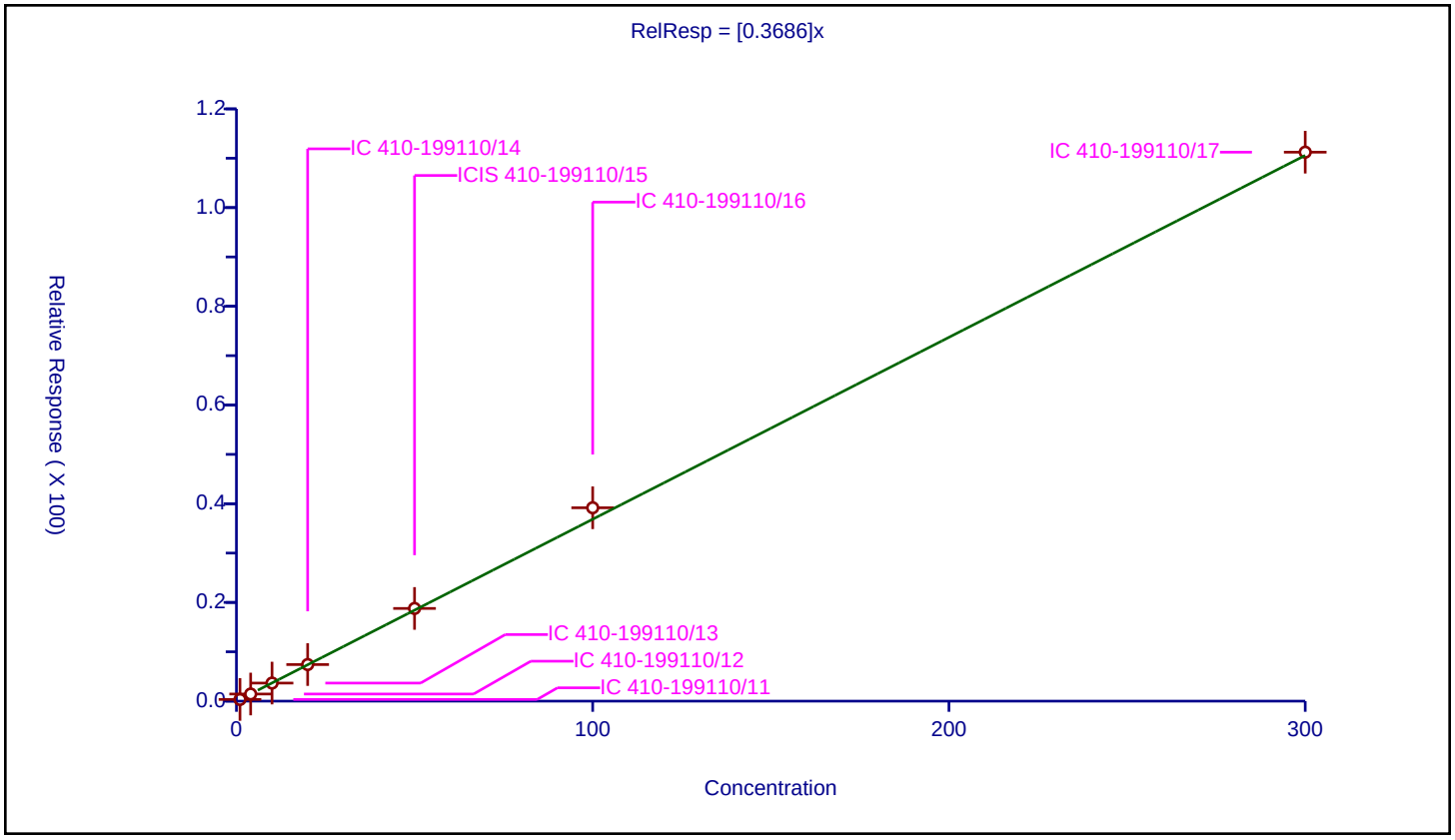
Curve Coefficients

Intercept:	0
Slope:	0.3686

Error Coefficients

Standard Error:	1200000
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 410-199110/11	1.0	0.343567	50.0	1116666.0	0.343567	Y
2	IC 410-199110/12	4.0	1.44592	50.0	1167492.0	0.36148	Y
3	IC 410-199110/13	10.0	3.660856	50.0	1104004.0	0.366086	Y
4	IC 410-199110/14	20.0	7.414176	50.0	1162206.0	0.370709	Y
5	ICIS 410-199110/15	50.0	18.781245	50.0	1148377.0	0.375625	Y
6	IC 410-199110/16	100.0	39.183348	50.0	1133604.0	0.391833	Y
7	IC 410-199110/17	300.0	111.229638	50.0	1237315.0	0.370765	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

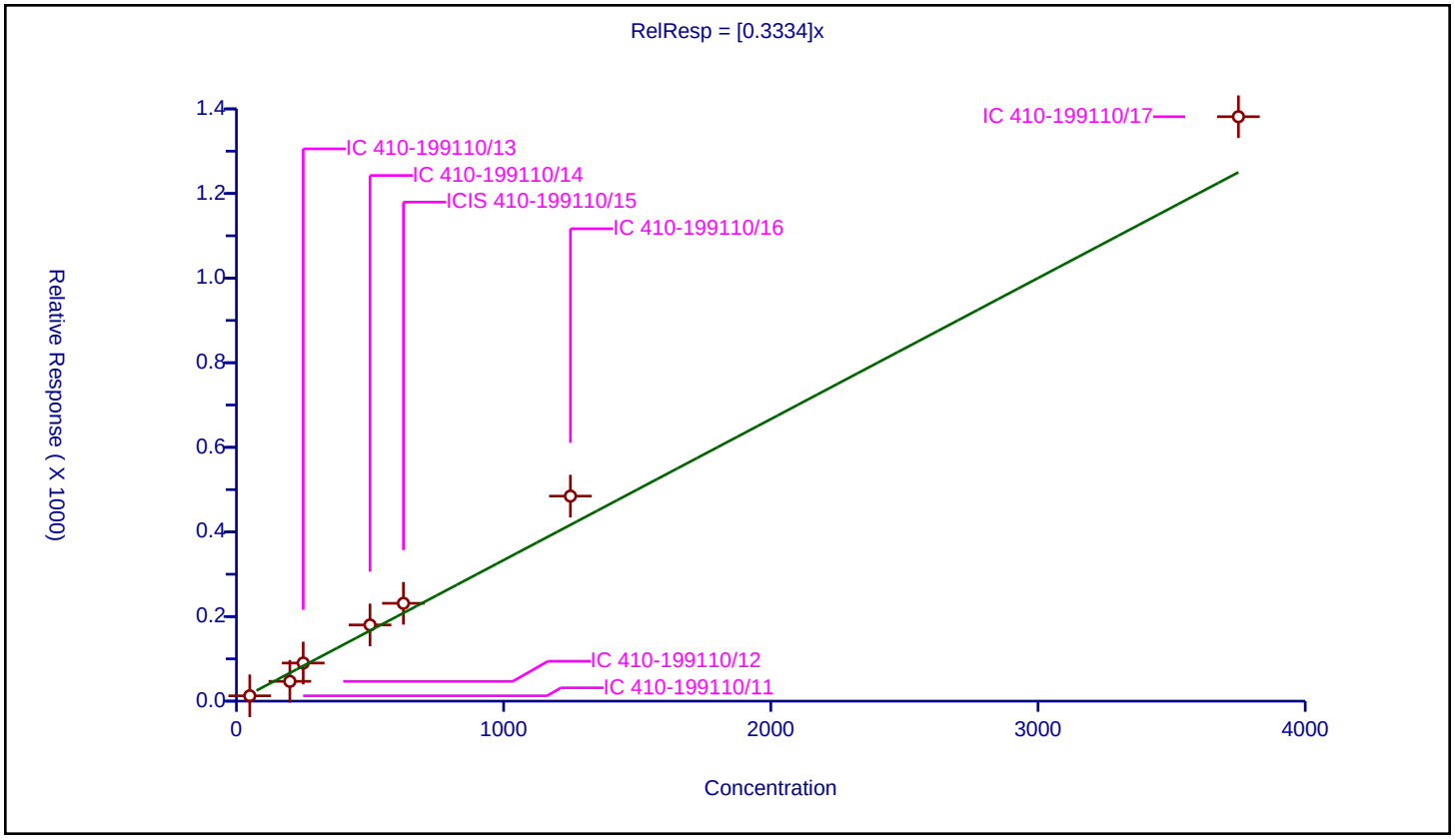
Curve Coefficients

Intercept:	0
Slope:	0.3334

Error Coefficients

Standard Error:	621000
Relative Standard Error:	18.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.961

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	50.0	12.621405	250.0	254211.0	0.252428	Y
2	IC 410-199110/12	200.0	46.803774	250.0	245258.0	0.234019	Y
3	IC 410-199110/13	250.0	90.12955	250.0	226940.0	0.360518	Y
4	IC 410-199110/14	500.0	180.154054	250.0	244914.0	0.360308	Y
5	ICIS 410-199110/15	625.0	231.265969	250.0	235614.0	0.370026	Y
6	IC 410-199110/16	1250.0	484.716105	250.0	231371.0	0.387773	Y
7	IC 410-199110/17	3750.0	1381.572667	250.0	257696.0	0.368419	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

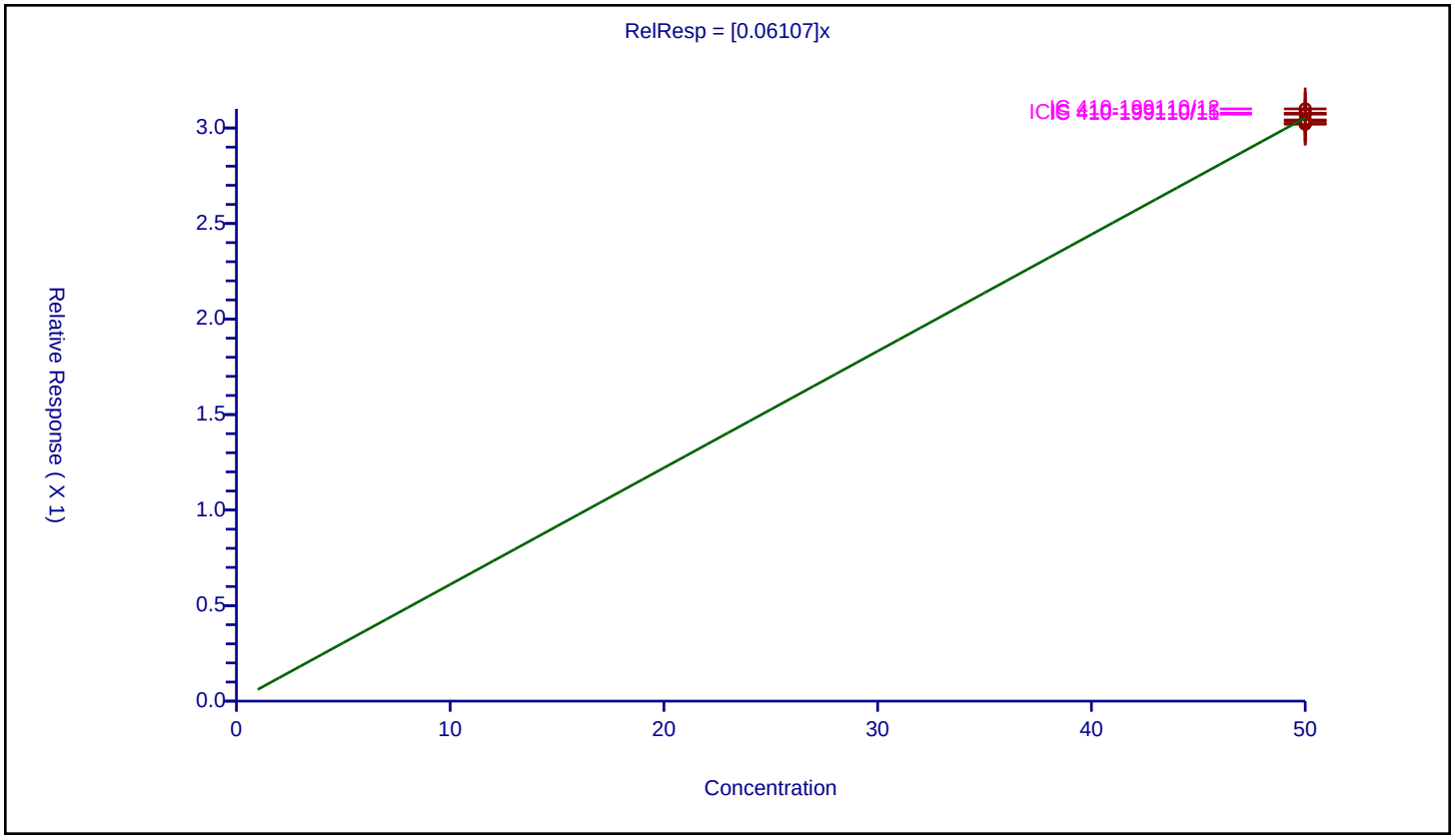
Curve Coefficients

Intercept:	0
Slope:	0.06107

Error Coefficients

Standard Error:	76100
Relative Standard Error:	1.0
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	50.0	3.07245	50.0	1116666.0	0.061449	Y
2	IC 410-199110/12	50.0	3.099978	50.0	1167492.0	0.062	Y
3	IC 410-199110/13	50.0	3.024264	50.0	1104004.0	0.060485	Y
4	IC 410-199110/14	50.0	3.042189	50.0	1162206.0	0.060844	Y
5	ICIS 410-199110/15	50.0	3.077387	50.0	1148377.0	0.061548	Y
6	IC 410-199110/16	50.0	3.036907	50.0	1133604.0	0.060738	Y
7	IC 410-199110/17	50.0	3.019886	50.0	1237315.0	0.060398	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

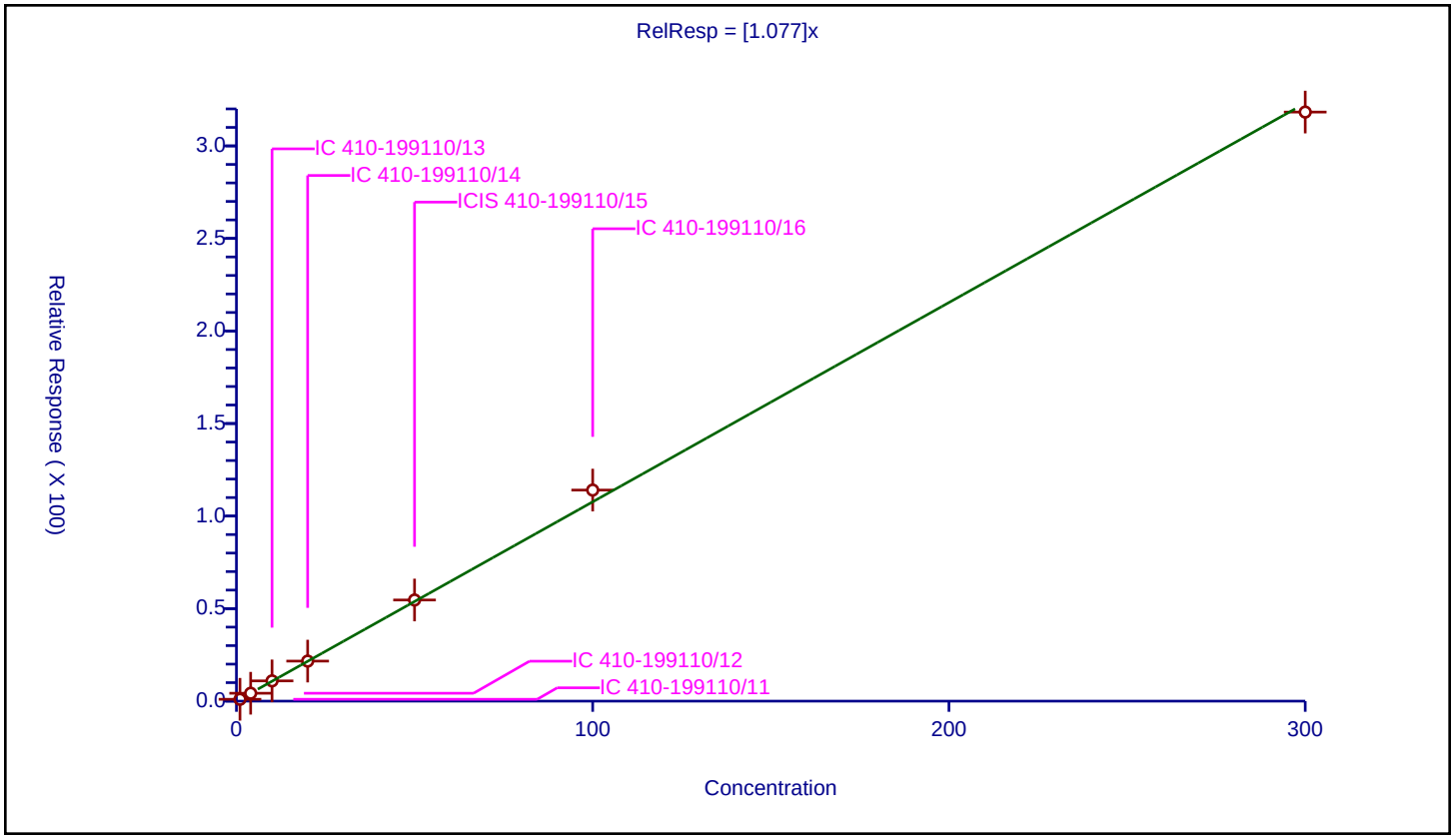
Curve Coefficients

Intercept:	0
Slope:	1.077

Error Coefficients

Standard Error:	3430000
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 410-199110/11	1.0	1.002045	50.0	1116666.0	1.002045	Y
2	IC 410-199110/12	4.0	4.262171	50.0	1167492.0	1.065543	Y
3	IC 410-199110/13	10.0	10.940676	50.0	1104004.0	1.094068	Y
4	IC 410-199110/14	20.0	21.64143	50.0	1162206.0	1.082072	Y
5	ICIS 410-199110/15	50.0	54.647124	50.0	1148377.0	1.092942	Y
6	IC 410-199110/16	100.0	114.042955	50.0	1133604.0	1.14043	Y
7	IC 410-199110/17	300.0	318.291341	50.0	1237315.0	1.060971	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

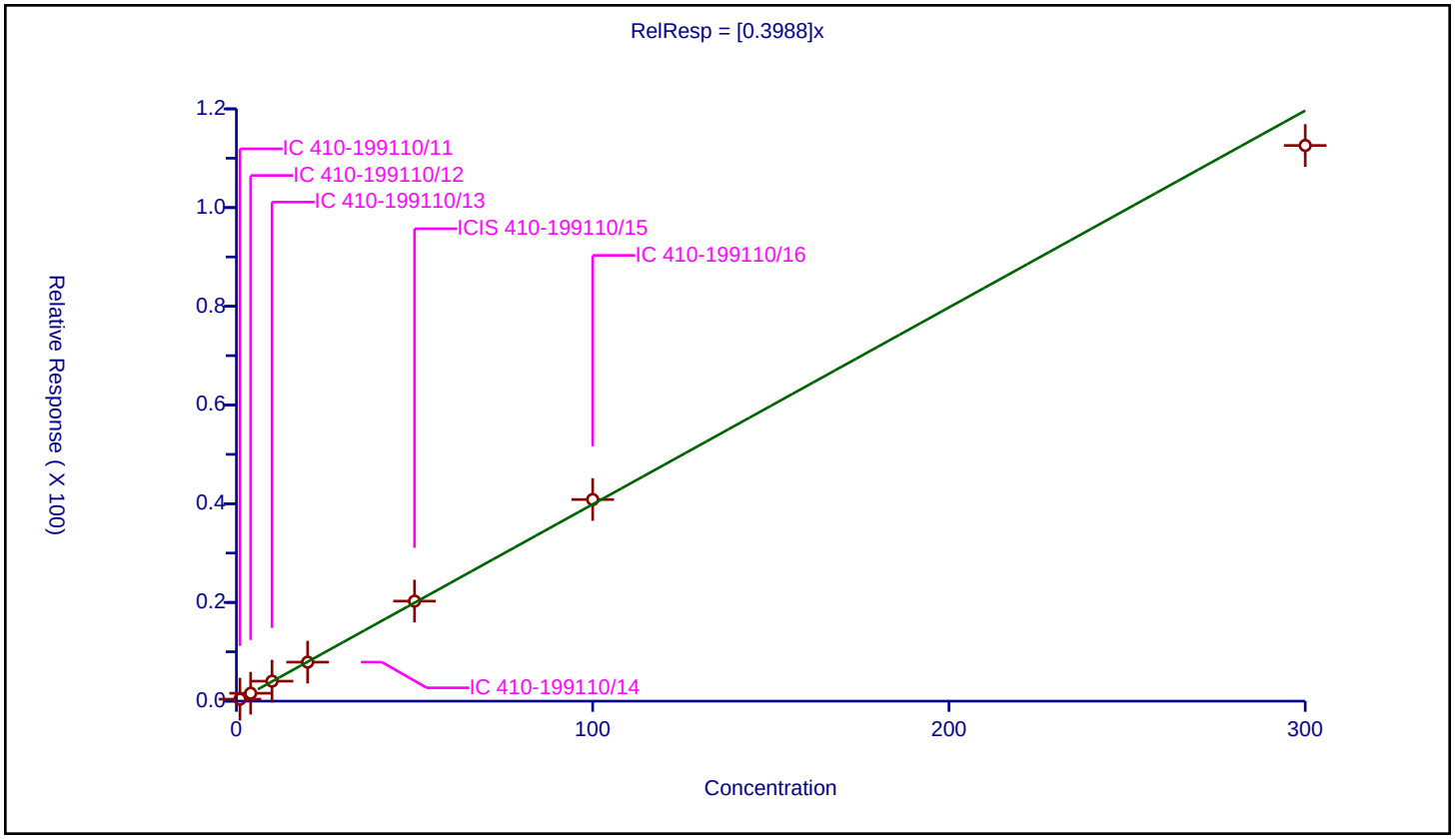
Curve Coefficients

Intercept:	0
Slope:	0.3988

Error Coefficients

Standard Error:	1220000
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 410-199110/11	1.0	0.401732	50.0	1116666.0	0.401732	Y
2	IC 410-199110/12	4.0	1.602666	50.0	1167492.0	0.400667	Y
3	IC 410-199110/13	10.0	4.051616	50.0	1104004.0	0.405162	Y
4	IC 410-199110/14	20.0	7.903289	50.0	1162206.0	0.395164	Y
5	ICIS 410-199110/15	50.0	20.267517	50.0	1148377.0	0.40535	Y
6	IC 410-199110/16	100.0	40.847862	50.0	1133604.0	0.408479	Y
7	IC 410-199110/17	300.0	112.586205	50.0	1237315.0	0.375287	Y



Calibration / Tert-amyl methyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

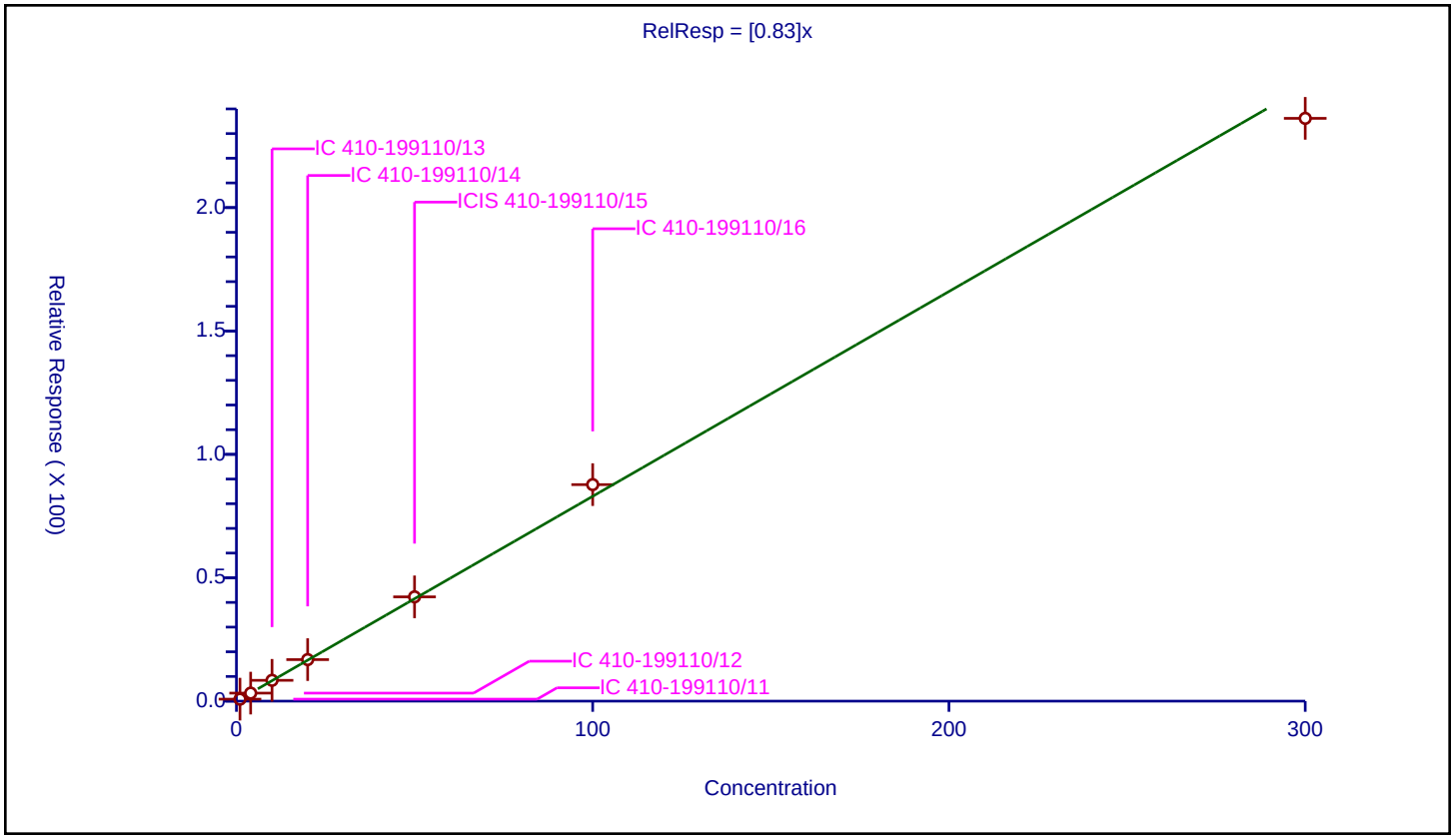
Curve Coefficients

Intercept:	0
Slope:	0.83

Error Coefficients

Standard Error:	2560000
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 410-199110/11	1.0	0.801135	50.0	1116666.0	0.801135	Y
2	IC 410-199110/12	4.0	3.253513	50.0	1167492.0	0.813378	Y
3	IC 410-199110/13	10.0	8.439145	50.0	1104004.0	0.843915	Y
4	IC 410-199110/14	20.0	16.835139	50.0	1162206.0	0.841757	Y
5	ICIS 410-199110/15	50.0	42.26369	50.0	1148377.0	0.845274	Y
6	IC 410-199110/16	100.0	87.743692	50.0	1133604.0	0.877437	Y
7	IC 410-199110/17	300.0	236.166861	50.0	1237315.0	0.787223	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

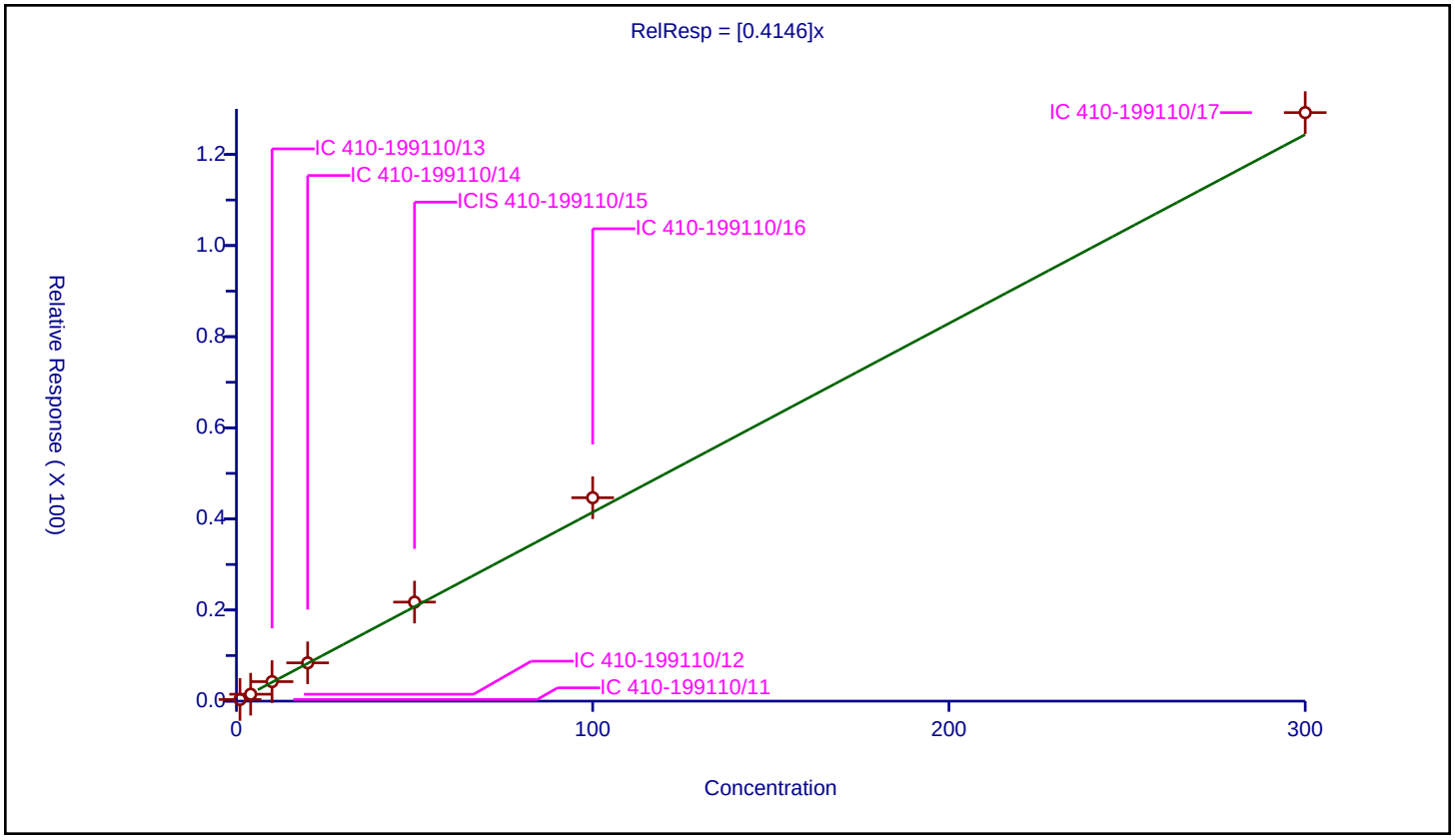
Curve Coefficients

Intercept:	0
Slope:	0.4146

Error Coefficients

Standard Error:	1390000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.362105	50.0	1116666.0	0.362105	Y
2	IC 410-199110/12	4.0	1.519539	50.0	1167492.0	0.379885	Y
3	IC 410-199110/13	10.0	4.280419	50.0	1104004.0	0.428042	Y
4	IC 410-199110/14	20.0	8.401824	50.0	1162206.0	0.420091	Y
5	ICIS 410-199110/15	50.0	21.73659	50.0	1148377.0	0.434732	Y
6	IC 410-199110/16	100.0	44.65338	50.0	1133604.0	0.446534	Y
7	IC 410-199110/17	300.0	129.186424	50.0	1237315.0	0.430621	Y



Calibration / n-Butanol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

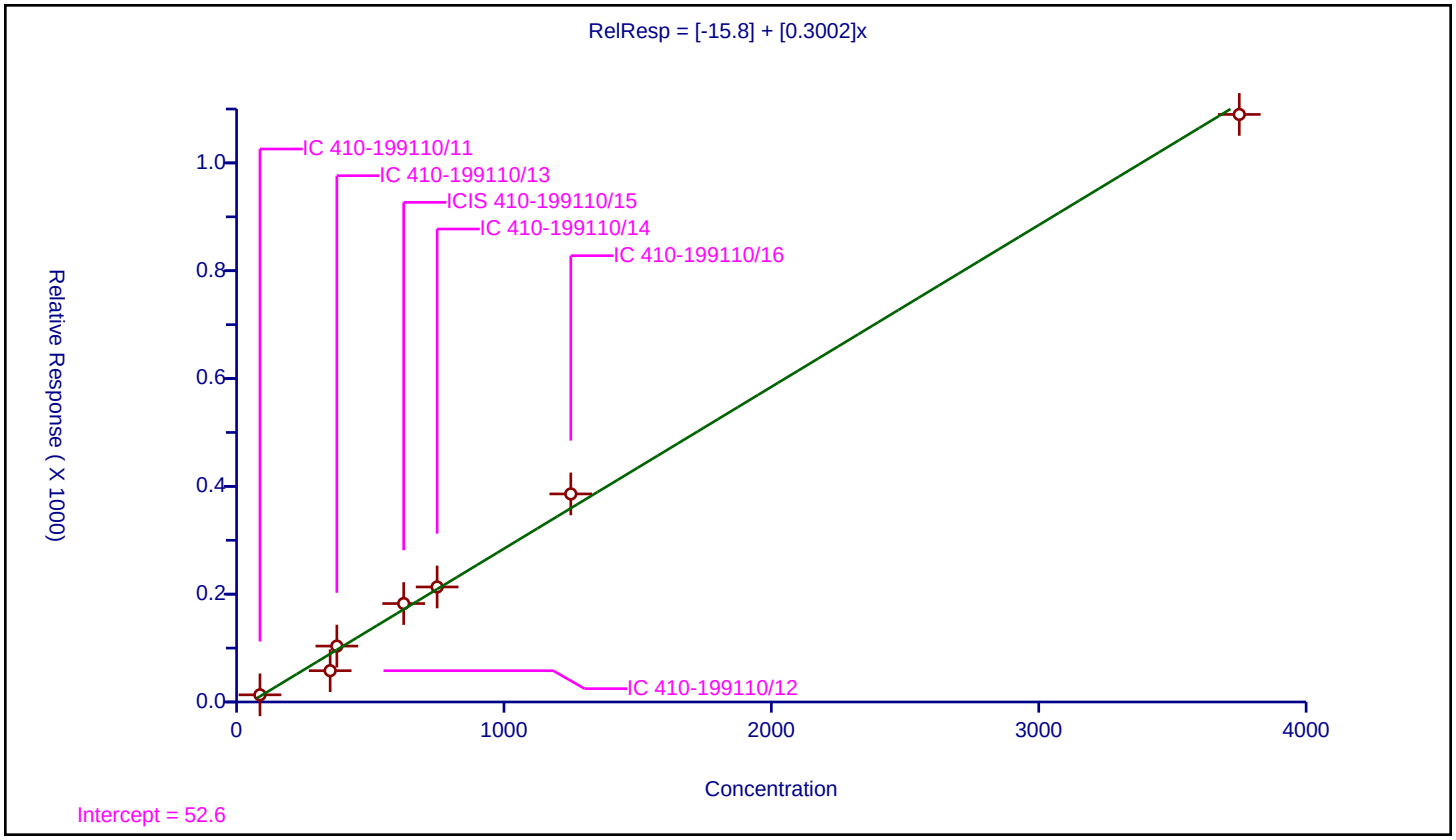
Curve Coefficients

Intercept:	-15.8
Slope:	0.3002

Error Coefficients

Standard Error:	543000
Relative Standard Error:	15.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	87.5	13.27834	250.0	254211.0	0.151752	Y
2	IC 410-199110/12	350.0	58.050094	250.0	245258.0	0.165857	Y
3	IC 410-199110/13	375.0	103.693708	250.0	226940.0	0.276517	Y
4	ICIS 410-199110/15	625.0	182.628155	250.0	235614.0	0.292205	Y
5	IC 410-199110/14	750.0	213.371837	250.0	244914.0	0.284496	Y
6	IC 410-199110/16	1250.0	385.954809	250.0	231371.0	0.308764	Y
7	IC 410-199110/17	3750.0	1089.941249	250.0	257696.0	0.290651	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

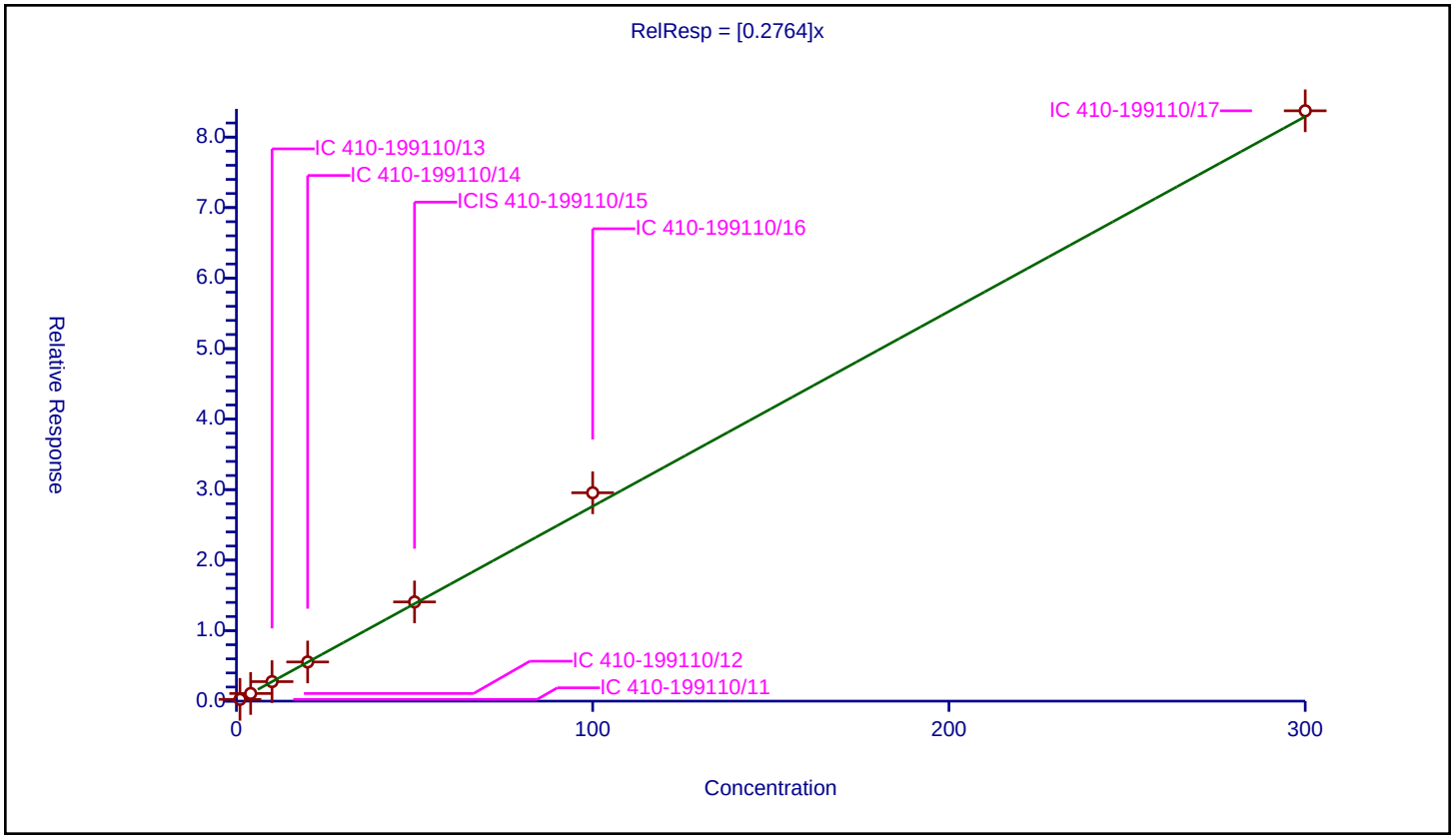
Curve Coefficients

Intercept:	0
Slope:	0.2764

Error Coefficients

Standard Error:	901000
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.252448	50.0	1116666.0	0.252448	Y
2	IC 410-199110/12	4.0	1.086817	50.0	1167492.0	0.271704	Y
3	IC 410-199110/13	10.0	2.768468	50.0	1104004.0	0.276847	Y
4	IC 410-199110/14	20.0	5.553103	50.0	1162206.0	0.277655	Y
5	ICIS 410-199110/15	50.0	14.069639	50.0	1148377.0	0.281393	Y
6	IC 410-199110/16	100.0	29.554501	50.0	1133604.0	0.295545	Y
7	IC 410-199110/17	300.0	83.733164	50.0	1237315.0	0.279111	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

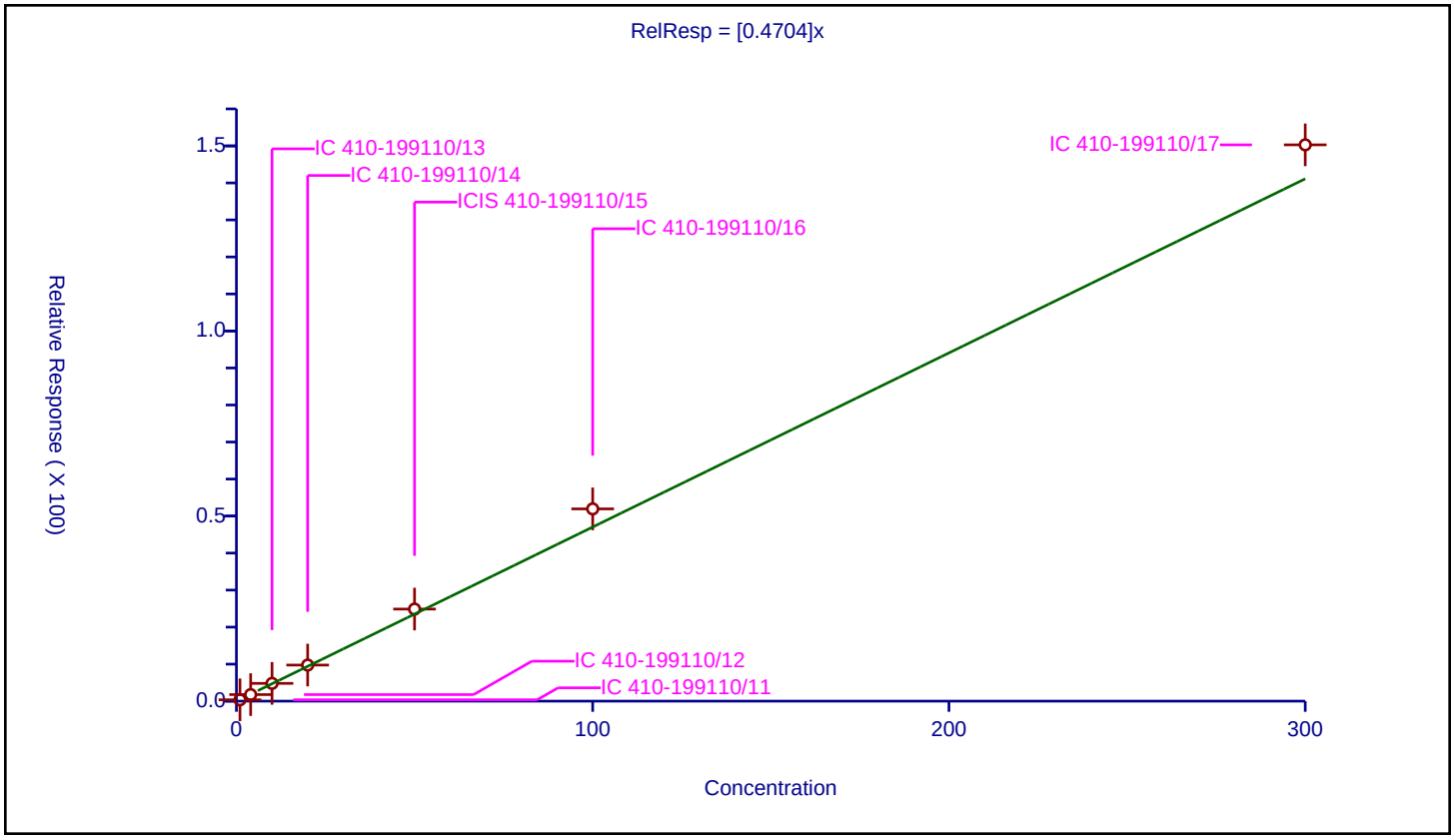
Curve Coefficients

Intercept:	0
Slope:	0.4704

Error Coefficients

Standard Error:	1610000
Relative Standard Error:	11.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.366045	50.0	1116666.0	0.366045	Y
2	IC 410-199110/12	4.0	1.76862	50.0	1167492.0	0.442155	Y
3	IC 410-199110/13	10.0	4.794865	50.0	1104004.0	0.479486	Y
4	IC 410-199110/14	20.0	9.742937	50.0	1162206.0	0.487147	Y
5	ICIS 410-199110/15	50.0	24.869098	50.0	1148377.0	0.497382	Y
6	IC 410-199110/16	100.0	51.93939	50.0	1133604.0	0.519394	Y
7	IC 410-199110/17	300.0	150.284527	50.0	1237315.0	0.500948	Y



Calibration / 2-ethoxy-2-methyl butane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

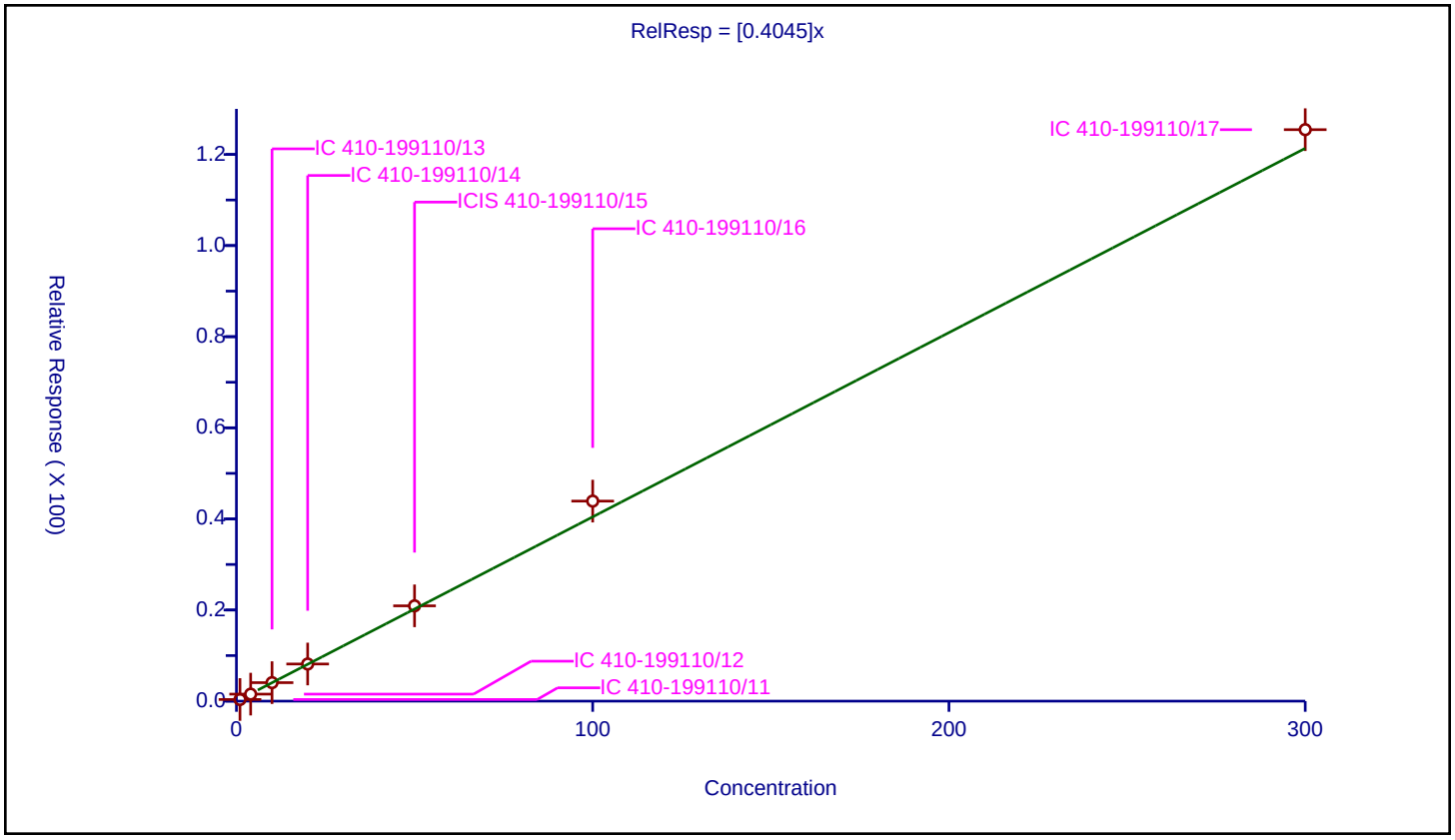
Curve Coefficients

Intercept:	0
Slope:	0.4045

Error Coefficients

Standard Error:	1350000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.357761	50.0	1116666.0	0.357761	Y
2	IC 410-199110/12	4.0	1.537826	50.0	1167492.0	0.384457	Y
3	IC 410-199110/13	10.0	4.058092	50.0	1104004.0	0.405809	Y
4	IC 410-199110/14	20.0	8.154105	50.0	1162206.0	0.407705	Y
5	ICIS 410-199110/15	50.0	20.918697	50.0	1148377.0	0.418374	Y
6	IC 410-199110/16	100.0	43.909954	50.0	1133604.0	0.4391	Y
7	IC 410-199110/17	300.0	125.43851	50.0	1237315.0	0.418128	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

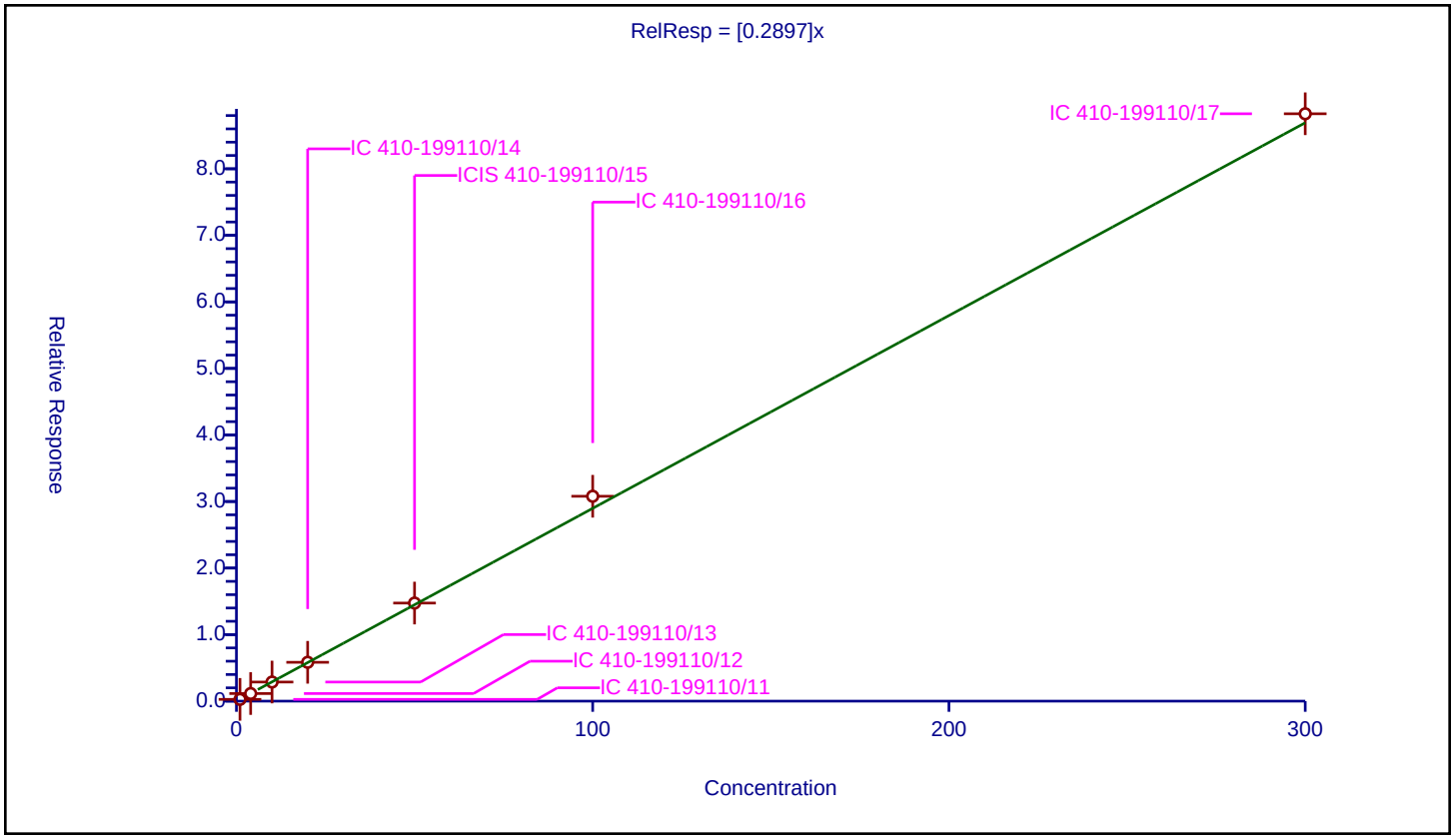
Curve Coefficients

Intercept:	0
Slope:	0.2897

Error Coefficients

Standard Error:	948000
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 410-199110/11	1.0	0.266687	50.0	1116666.0	0.266687	Y
2	IC 410-199110/12	4.0	1.141935	50.0	1167492.0	0.285484	Y
3	IC 410-199110/13	10.0	2.871276	50.0	1104004.0	0.287128	Y
4	IC 410-199110/14	20.0	5.837046	50.0	1162206.0	0.291852	Y
5	ICIS 410-199110/15	50.0	14.737321	50.0	1148377.0	0.294746	Y
6	IC 410-199110/16	100.0	30.788882	50.0	1133604.0	0.307889	Y
7	IC 410-199110/17	300.0	88.269115	50.0	1237315.0	0.29423	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

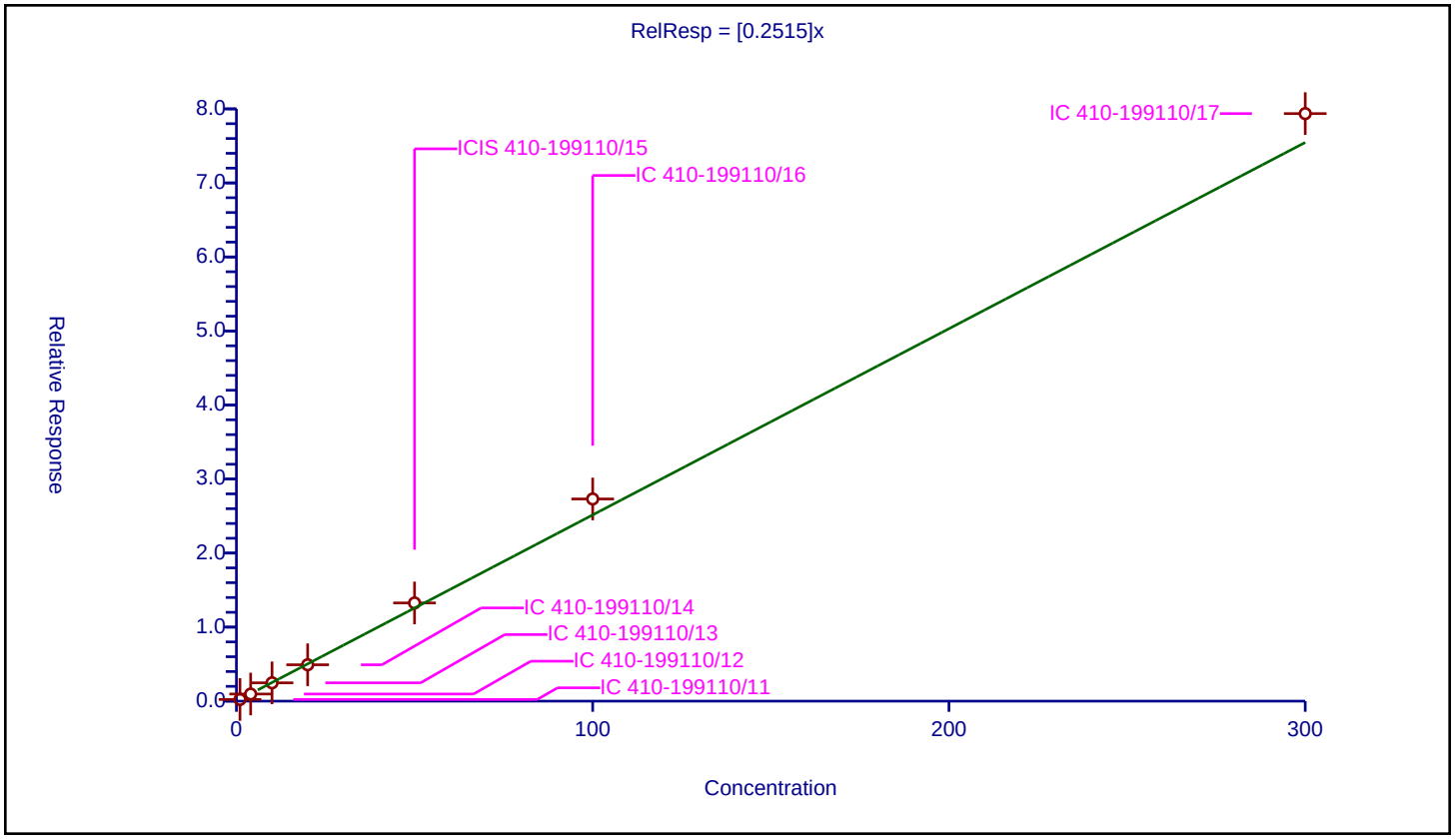
Curve Coefficients

Intercept:	0
Slope:	0.2515

Error Coefficients

Standard Error:	851000
Relative Standard Error:	6.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.224239	50.0	1116666.0	0.224239	Y
2	IC 410-199110/12	4.0	0.962533	50.0	1167492.0	0.240633	Y
3	IC 410-199110/13	10.0	2.475127	50.0	1104004.0	0.247513	Y
4	IC 410-199110/14	20.0	4.911651	50.0	1162206.0	0.245583	Y
5	ICIS 410-199110/15	50.0	13.261586	50.0	1148377.0	0.265232	Y
6	IC 410-199110/16	100.0	27.308213	50.0	1133604.0	0.273082	Y
7	IC 410-199110/17	300.0	79.364551	50.0	1237315.0	0.264549	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

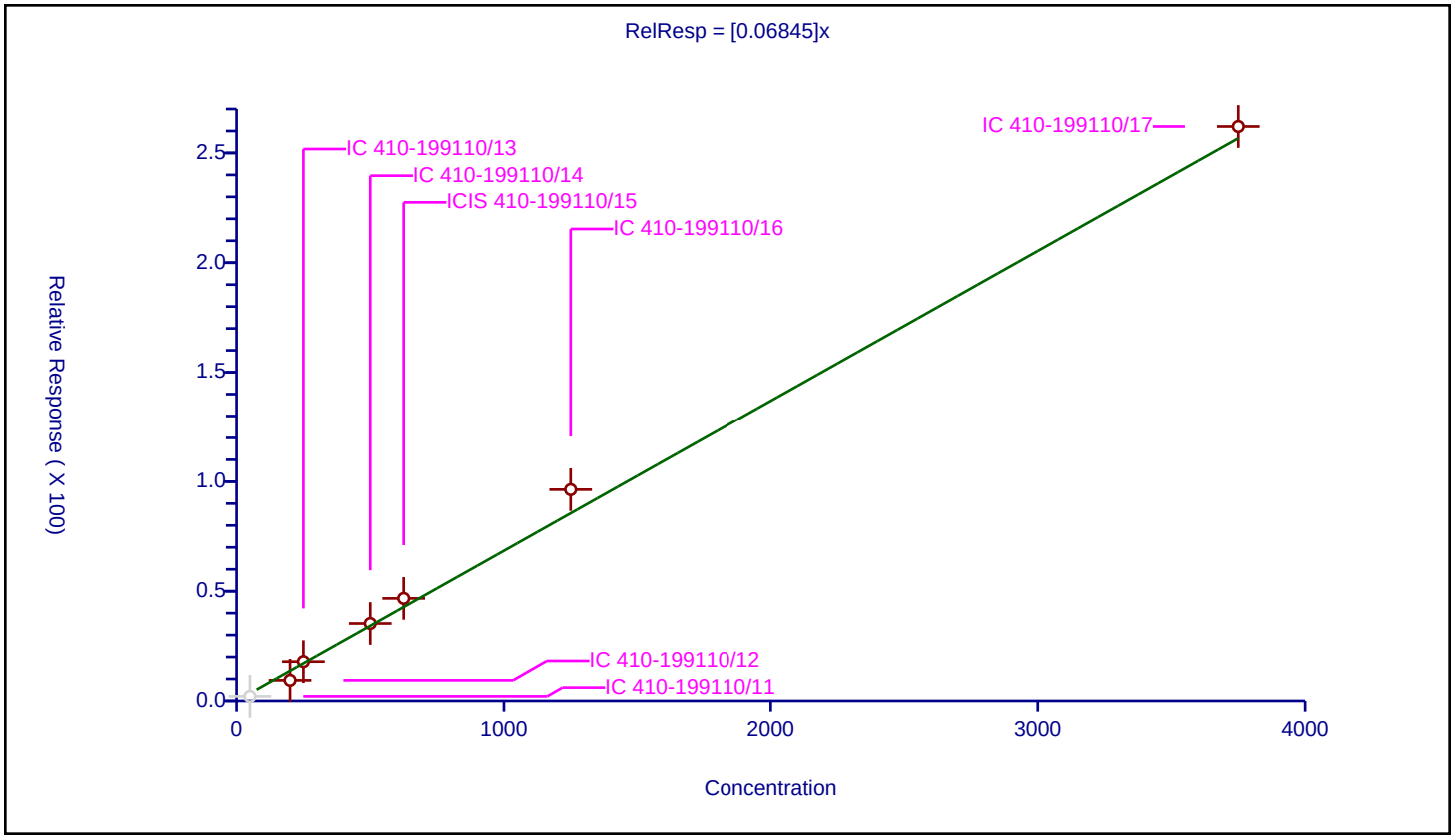
Curve Coefficients

Intercept:	0
Slope:	0.06845

Error Coefficients

Standard Error:	130000
Relative Standard Error:	15.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.955

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	50.0	2.091766	250.0	254211.0	0.041835	N
2	IC 410-199110/12	200.0	9.382976	250.0	245258.0	0.046915	Y
3	IC 410-199110/13	250.0	17.87587	250.0	226940.0	0.071503	Y
4	IC 410-199110/14	500.0	35.279731	250.0	244914.0	0.070559	Y
5	ICIS 410-199110/15	625.0	46.724728	250.0	235614.0	0.07476	Y
6	IC 410-199110/16	1250.0	96.371196	250.0	231371.0	0.077097	Y
7	IC 410-199110/17	3750.0	262.051991	250.0	257696.0	0.069881	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

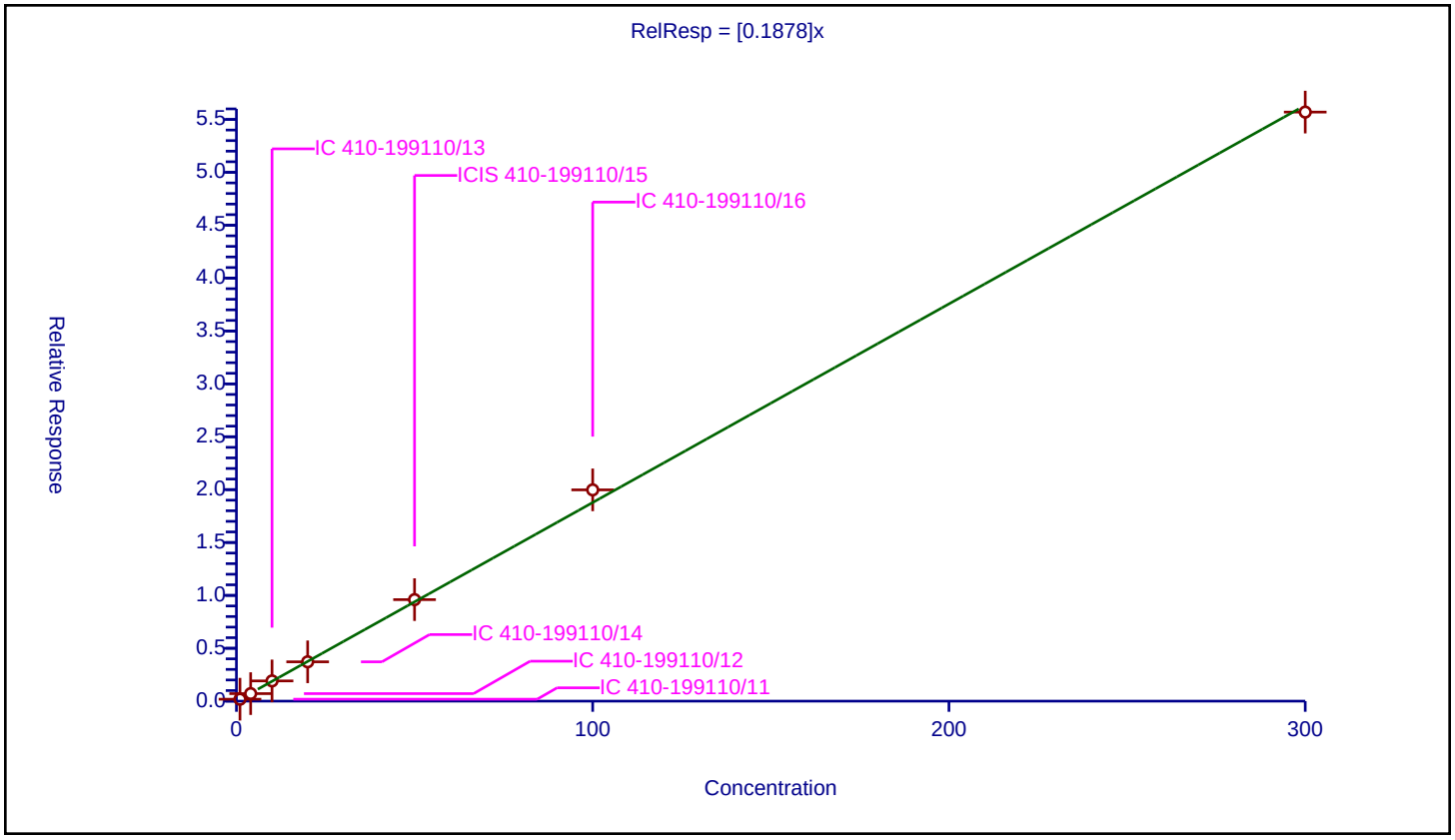
Curve Coefficients

Intercept:	0
Slope:	0.1878

Error Coefficients

Standard Error:	600000
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 410-199110/11	1.0	0.18197	50.0	1116666.0	0.18197	Y
2	IC 410-199110/12	4.0	0.711525	50.0	1167492.0	0.177881	Y
3	IC 410-199110/13	10.0	1.913806	50.0	1104004.0	0.191381	Y
4	IC 410-199110/14	20.0	3.719134	50.0	1162206.0	0.185957	Y
5	ICIS 410-199110/15	50.0	9.598721	50.0	1148377.0	0.191974	Y
6	IC 410-199110/16	100.0	19.976376	50.0	1133604.0	0.199764	Y
7	IC 410-199110/17	300.0	55.698428	50.0	1237315.0	0.185661	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

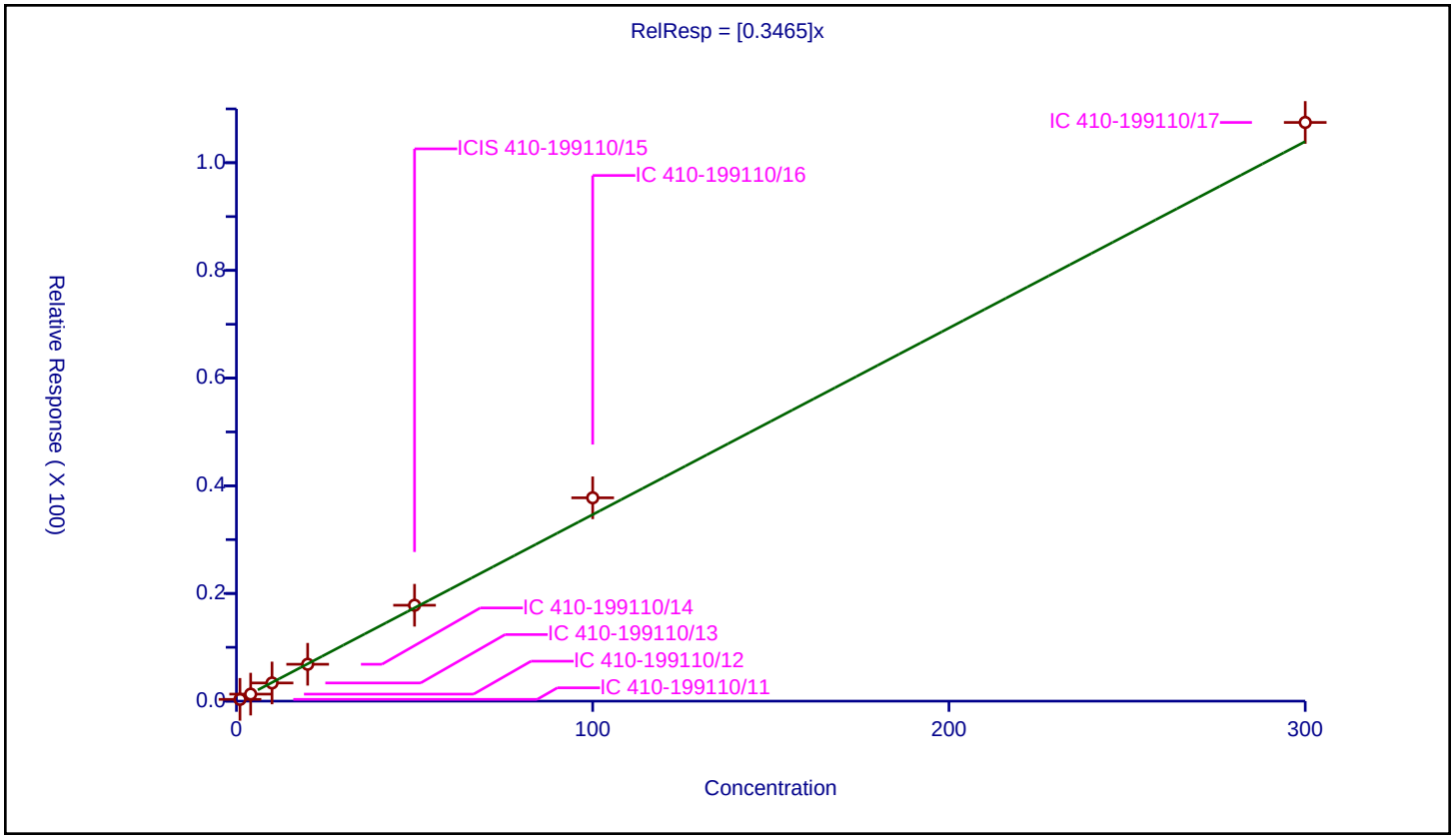
Curve Coefficients

Intercept:	0
Slope:	0.3465

Error Coefficients

Standard Error:	1160000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.327269	50.0	1116666.0	0.327269	Y
2	IC 410-199110/12	4.0	1.303564	50.0	1167492.0	0.325891	Y
3	IC 410-199110/13	10.0	3.376211	50.0	1104004.0	0.337621	Y
4	IC 410-199110/14	20.0	6.847323	50.0	1162206.0	0.342366	Y
5	ICIS 410-199110/15	50.0	17.811921	50.0	1148377.0	0.356238	Y
6	IC 410-199110/16	100.0	37.765084	50.0	1133604.0	0.377651	Y
7	IC 410-199110/17	300.0	107.48031	50.0	1237315.0	0.358268	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

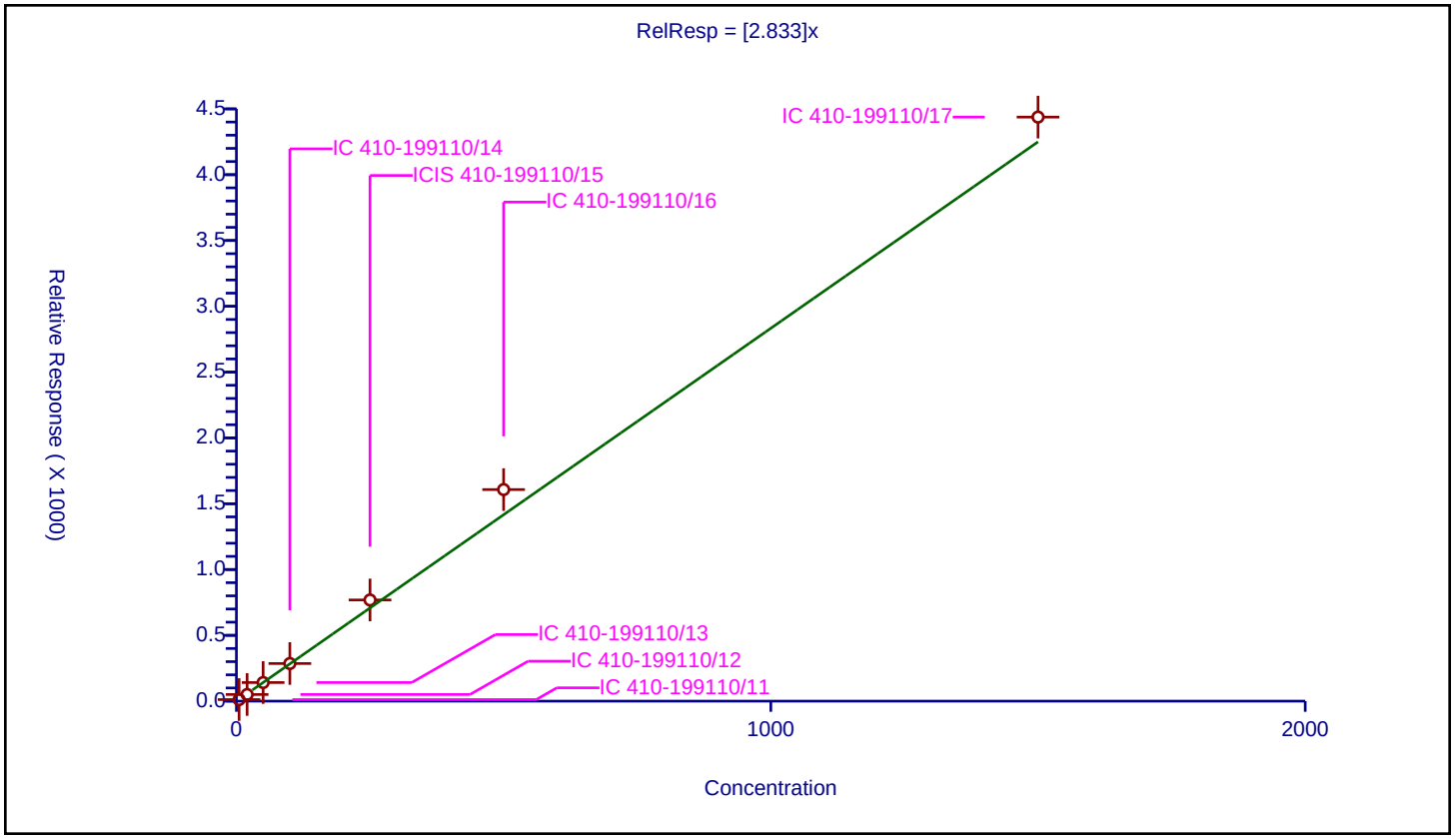
Curve Coefficients

Intercept:	0
Slope:	2.833

Error Coefficients

Standard Error:	1990000
Relative Standard Error:	10.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	5.0	11.866127	250.0	254211.0	2.373225	Y
2	IC 410-199110/12	20.0	50.47134	250.0	245258.0	2.523567	Y
3	IC 410-199110/13	50.0	141.427249	250.0	226940.0	2.828545	Y
4	IC 410-199110/14	100.0	285.797259	250.0	244914.0	2.857973	Y
5	ICIS 410-199110/15	250.0	768.731909	250.0	235614.0	3.074928	Y
6	IC 410-199110/16	500.0	1607.481059	250.0	231371.0	3.214962	Y
7	IC 410-199110/17	1500.0	4437.687236	250.0	257696.0	2.958458	Y



Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

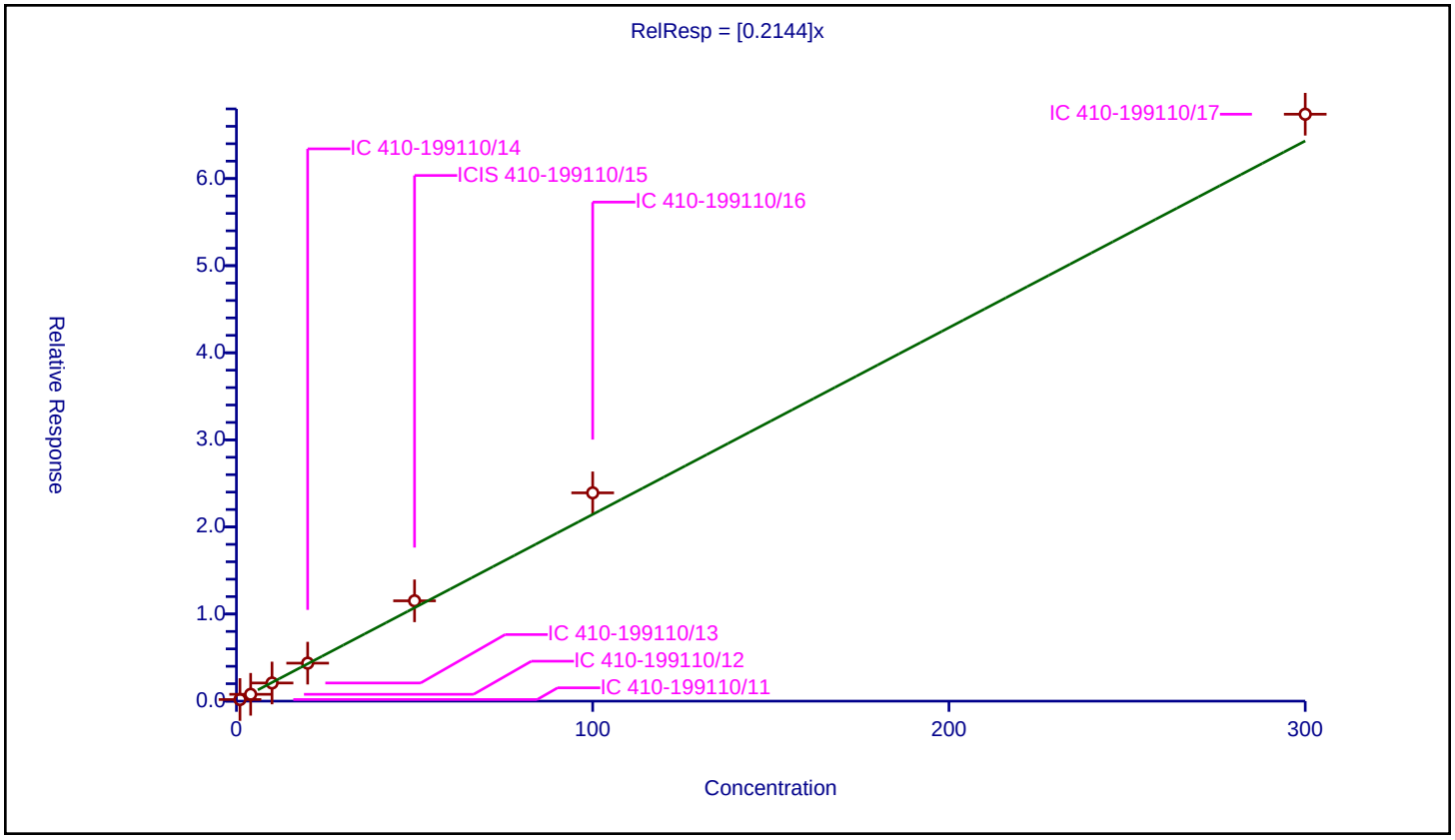
Curve Coefficients

Intercept:	0
Slope:	0.2144

Error Coefficients

Standard Error:	725000
Relative Standard Error:	9.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.184075	50.0	1116666.0	0.184075	Y
2	IC 410-199110/12	4.0	0.784588	50.0	1167492.0	0.196147	Y
3	IC 410-199110/13	10.0	2.083371	50.0	1104004.0	0.208337	Y
4	IC 410-199110/14	20.0	4.36334	50.0	1162206.0	0.218167	Y
5	ICIS 410-199110/15	50.0	11.517864	50.0	1148377.0	0.230357	Y
6	IC 410-199110/16	100.0	23.914744	50.0	1133604.0	0.239147	Y
7	IC 410-199110/17	300.0	67.388175	50.0	1237315.0	0.224627	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

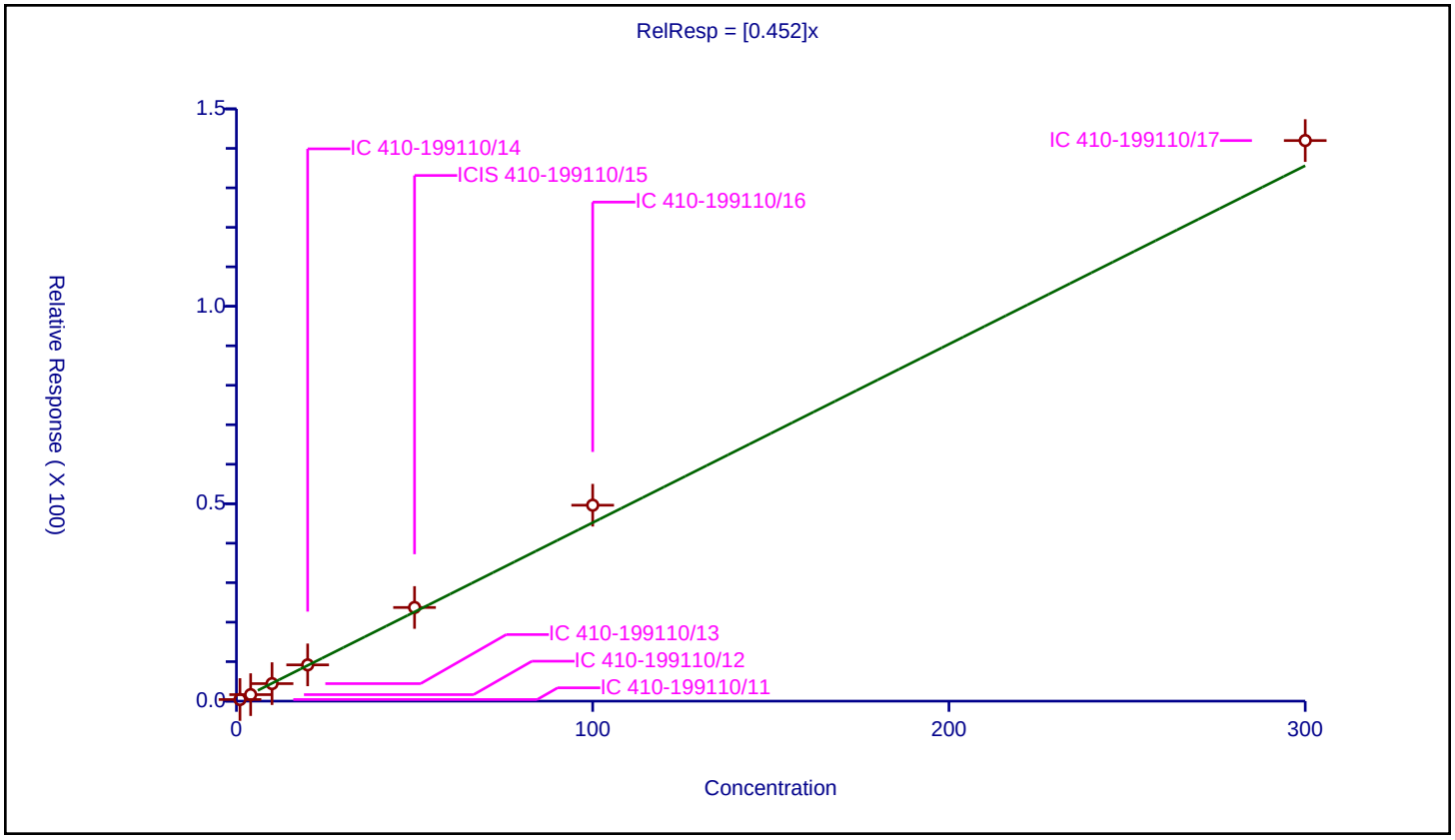
Curve Coefficients

Intercept:	0
Slope:	0.452

Error Coefficients

Standard Error:	1530000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.405045	50.0	1116666.0	0.405045	Y
2	IC 410-199110/12	4.0	1.651831	50.0	1167492.0	0.412958	Y
3	IC 410-199110/13	10.0	4.432457	50.0	1104004.0	0.443246	Y
4	IC 410-199110/14	20.0	9.182279	50.0	1162206.0	0.459114	Y
5	ICIS 410-199110/15	50.0	23.722218	50.0	1148377.0	0.474444	Y
6	IC 410-199110/16	100.0	49.625531	50.0	1133604.0	0.496255	Y
7	IC 410-199110/17	300.0	141.981023	50.0	1237315.0	0.47327	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

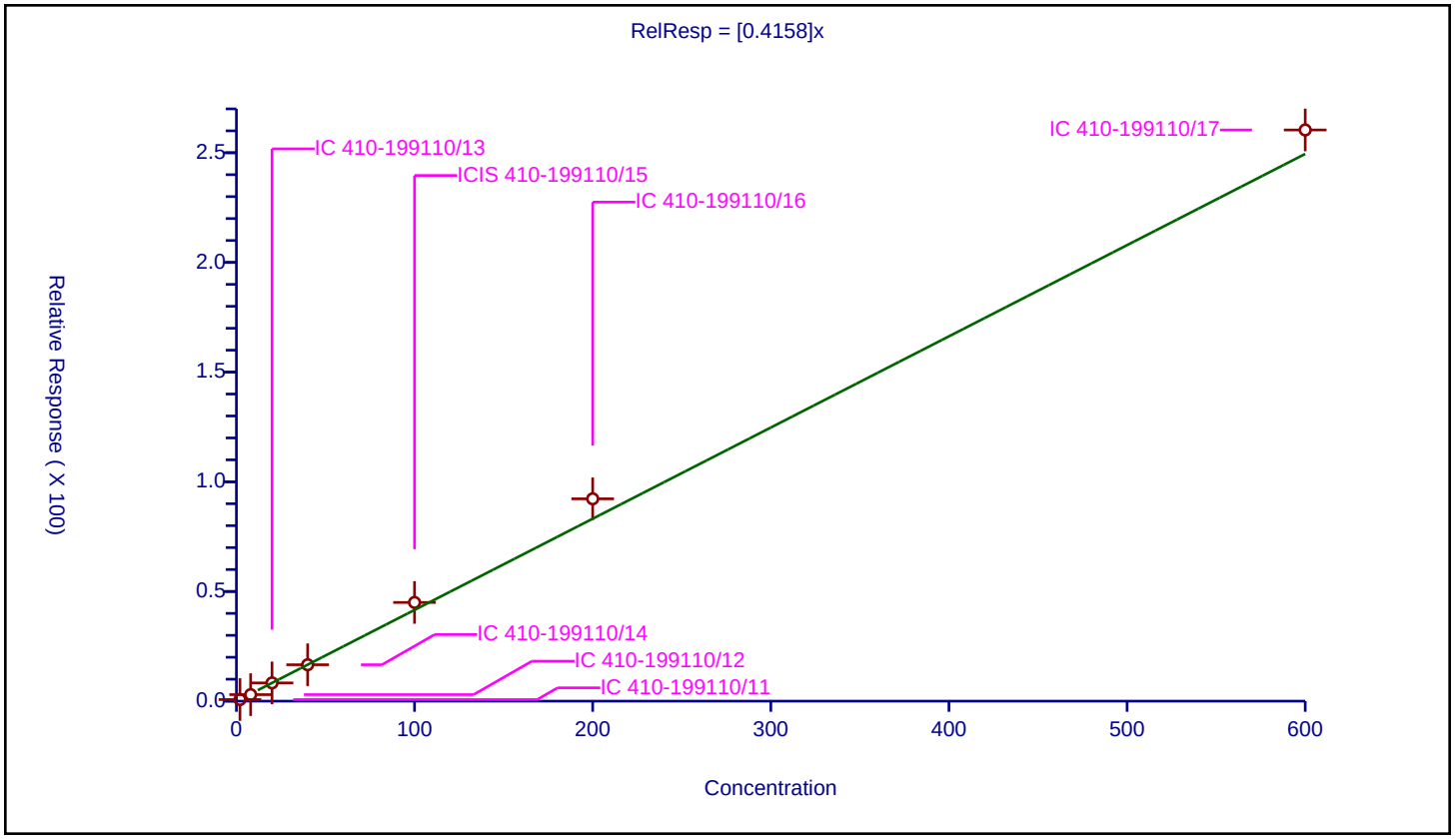
Curve Coefficients

Intercept:	0
Slope:	0.4158

Error Coefficients

Standard Error:	2800000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	2.0	0.727254	50.0	1116666.0	0.363627	Y
2	IC 410-199110/12	8.0	2.968115	50.0	1167492.0	0.371014	Y
3	IC 410-199110/13	20.0	8.316501	50.0	1104004.0	0.415825	Y
4	IC 410-199110/14	40.0	16.594261	50.0	1162206.0	0.414857	Y
5	ICIS 410-199110/15	100.0	44.992498	50.0	1148377.0	0.449925	Y
6	IC 410-199110/16	200.0	92.238648	50.0	1133604.0	0.461193	Y
7	IC 410-199110/17	600.0	260.386401	50.0	1237315.0	0.433977	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

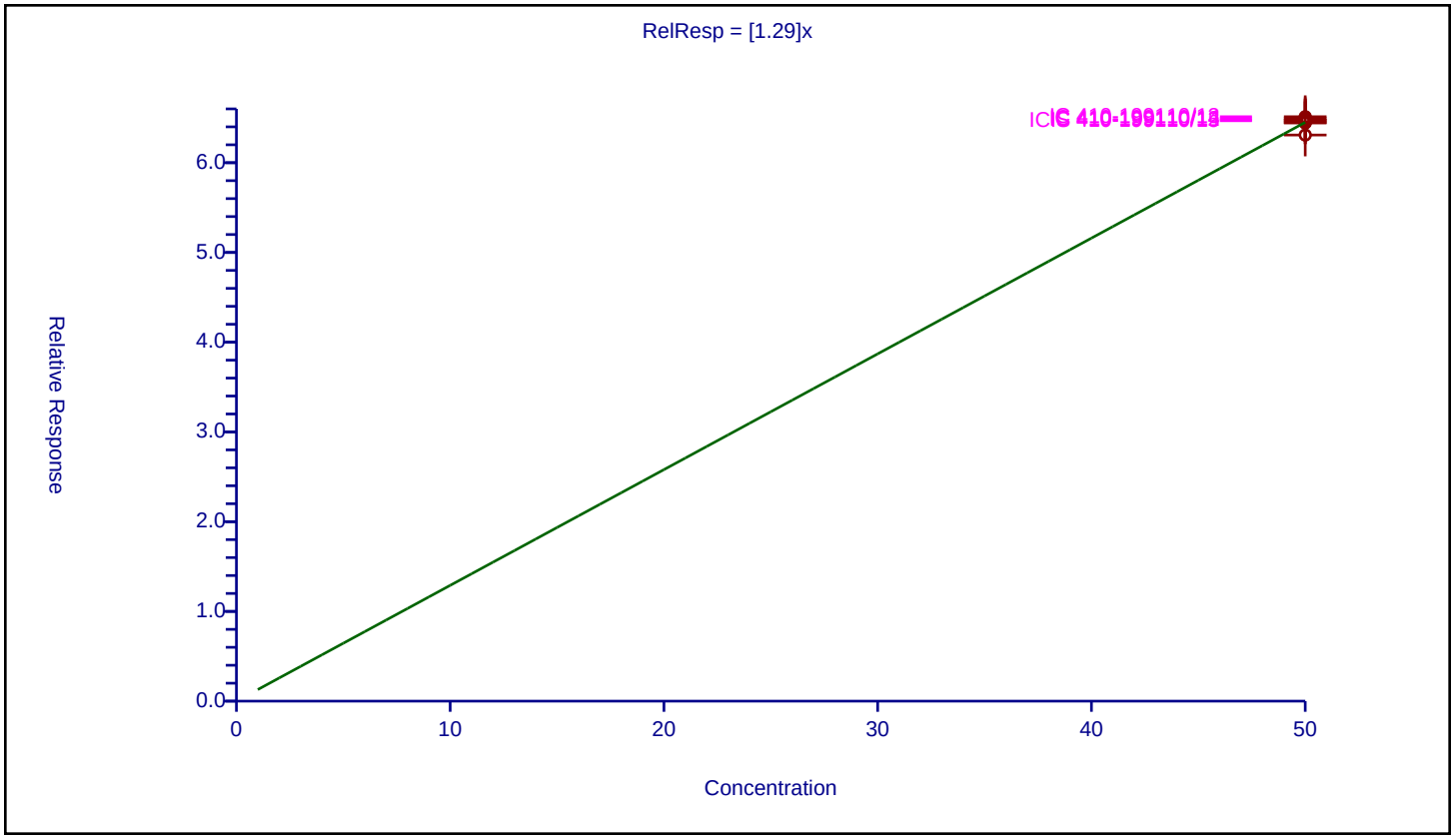
Curve Coefficients

Intercept:	0
Slope:	1.29

Error Coefficients

Standard Error:	1260000
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 410-199110/11	50.0	64.480196	50.0	864201.0	1.289604	Y
2	IC 410-199110/12	50.0	64.755855	50.0	911977.0	1.295117	Y
3	IC 410-199110/13	50.0	65.127467	50.0	862104.0	1.302549	Y
4	IC 410-199110/14	50.0	64.917438	50.0	911068.0	1.298349	Y
5	ICIS 410-199110/15	50.0	64.679515	50.0	905316.0	1.29359	Y
6	IC 410-199110/16	50.0	64.429228	50.0	887175.0	1.288585	Y
7	IC 410-199110/17	50.0	63.088243	50.0	985499.0	1.261765	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

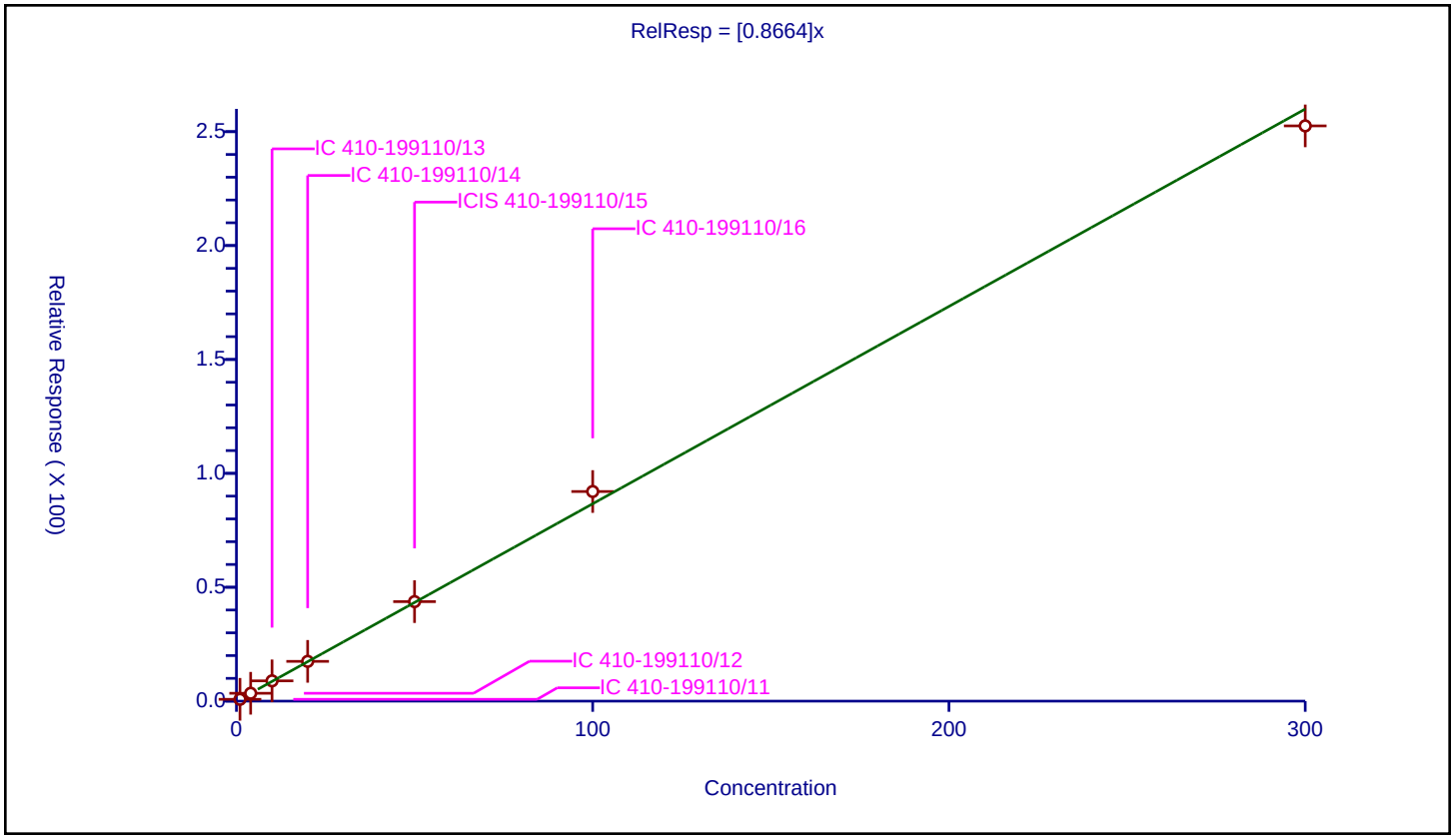
Curve Coefficients

Intercept:	0
Slope:	0.8664

Error Coefficients

Standard Error:	2170000
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 410-199110/11	1.0	0.802707	50.0	864201.0	0.802707	Y
2	IC 410-199110/12	4.0	3.45228	50.0	911977.0	0.86307	Y
3	IC 410-199110/13	10.0	8.902754	50.0	862104.0	0.890275	Y
4	IC 410-199110/14	20.0	17.458905	50.0	911068.0	0.872945	Y
5	ICIS 410-199110/15	50.0	43.692313	50.0	905316.0	0.873846	Y
6	IC 410-199110/16	100.0	92.025756	50.0	887175.0	0.920258	Y
7	IC 410-199110/17	300.0	252.538207	50.0	985499.0	0.841794	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

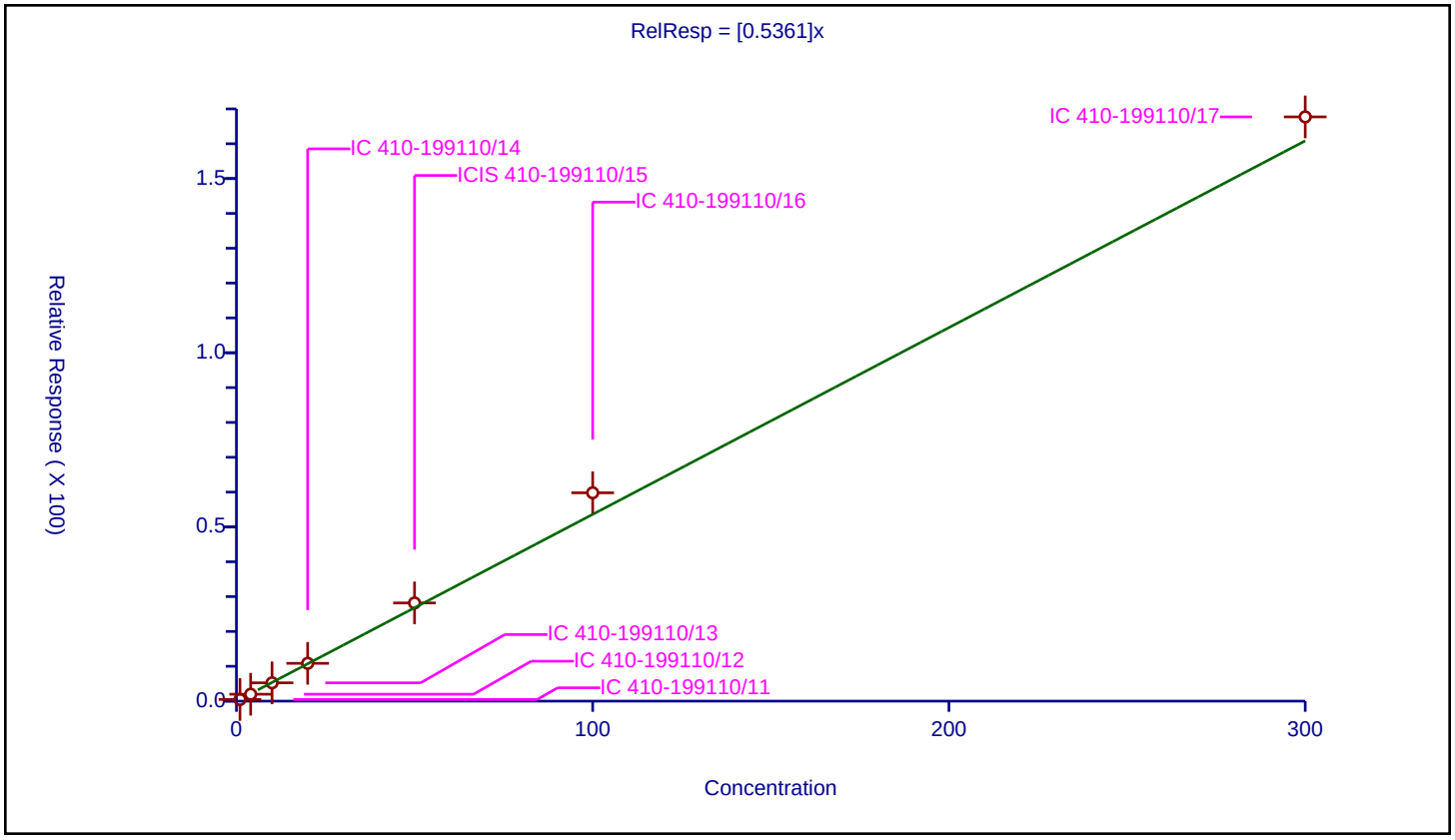
Curve Coefficients

Intercept:	0
Slope:	0.5361

Error Coefficients

Standard Error:	1440000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.467831	50.0	864201.0	0.467831	Y
2	IC 410-199110/12	4.0	1.984096	50.0	911977.0	0.496024	Y
3	IC 410-199110/13	10.0	5.25766	50.0	862104.0	0.525766	Y
4	IC 410-199110/14	20.0	10.851166	50.0	911068.0	0.542558	Y
5	ICIS 410-199110/15	50.0	28.181044	50.0	905316.0	0.563621	Y
6	IC 410-199110/16	100.0	59.803985	50.0	887175.0	0.59804	Y
7	IC 410-199110/17	300.0	167.705954	50.0	985499.0	0.55902	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

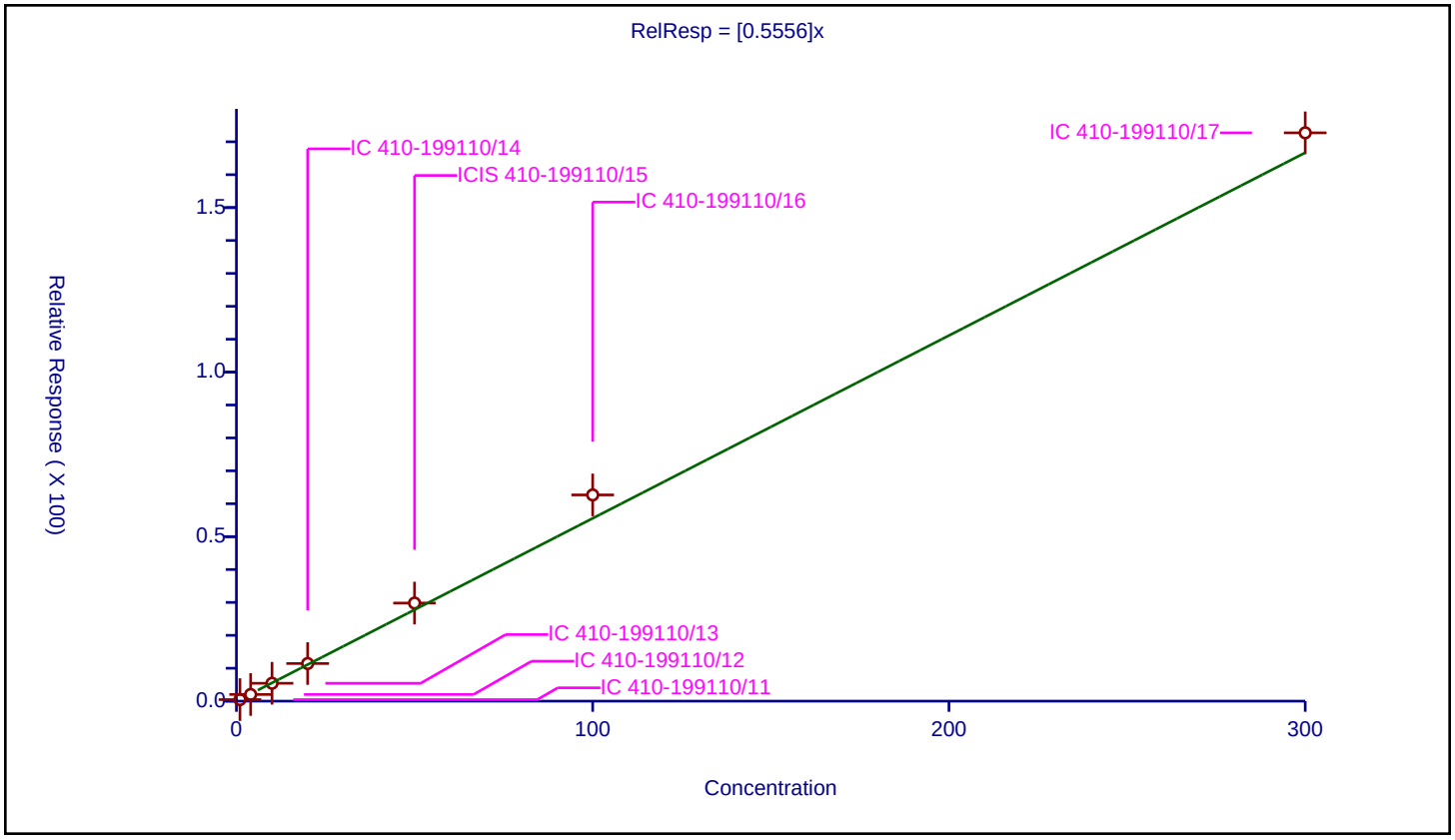
Curve Coefficients

Intercept:	0
Slope:	0.5556

Error Coefficients

Standard Error:	1480000
Relative Standard Error:	9.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.468062	50.0	864201.0	0.468062	Y
2	IC 410-199110/12	4.0	2.030698	50.0	911977.0	0.507675	Y
3	IC 410-199110/13	10.0	5.430377	50.0	862104.0	0.543038	Y
4	IC 410-199110/14	20.0	11.436029	50.0	911068.0	0.571801	Y
5	ICIS 410-199110/15	50.0	29.809039	50.0	905316.0	0.596181	Y
6	IC 410-199110/16	100.0	62.672415	50.0	887175.0	0.626724	Y
7	IC 410-199110/17	300.0	172.722093	50.0	985499.0	0.57574	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

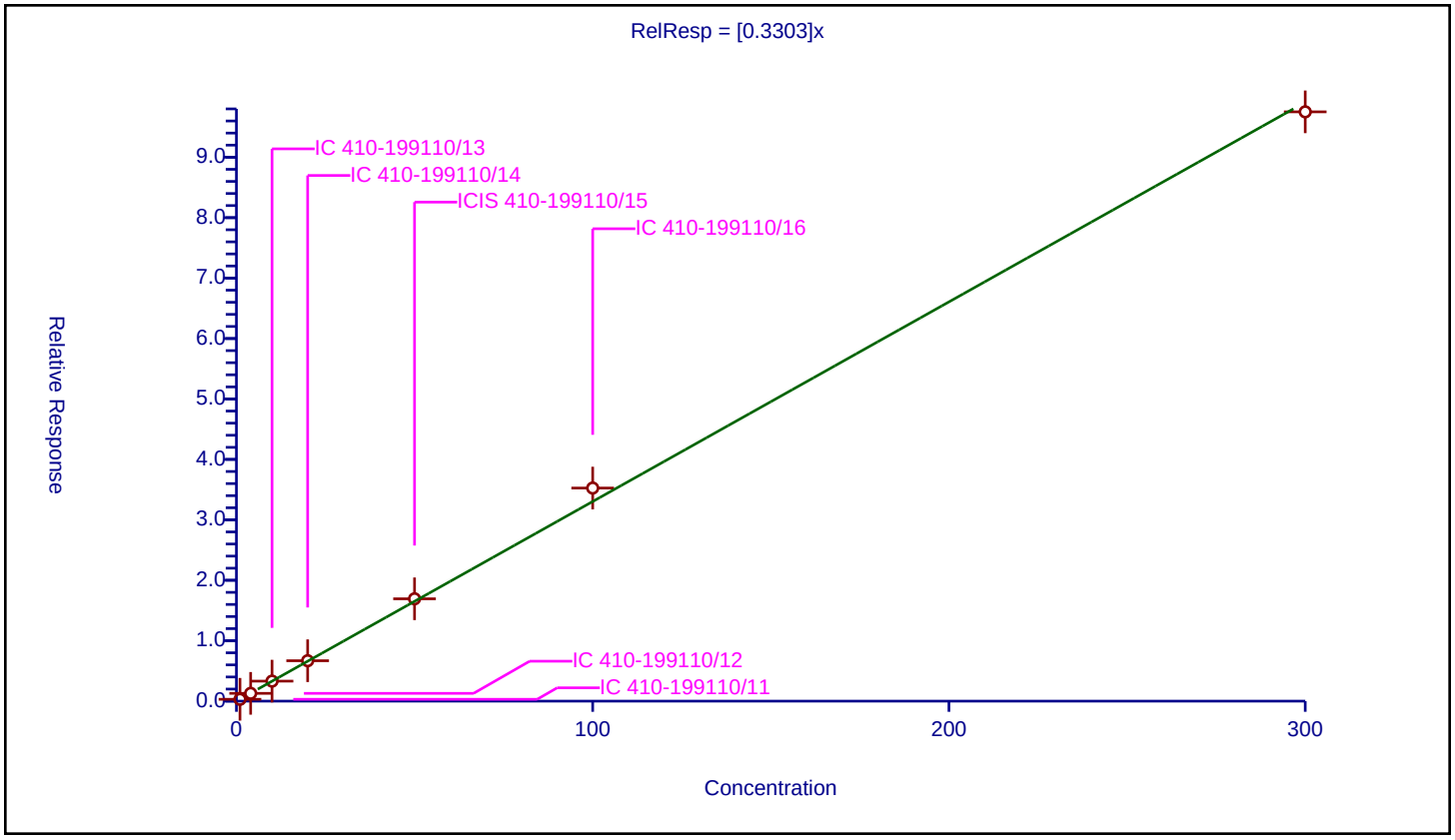
Curve Coefficients

Intercept:	0
Slope:	0.3303

Error Coefficients

Standard Error:	836000
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 410-199110/11	1.0	0.30803	50.0	864201.0	0.30803	Y
2	IC 410-199110/12	4.0	1.28841	50.0	911977.0	0.322102	Y
3	IC 410-199110/13	10.0	3.313521	50.0	862104.0	0.331352	Y
4	IC 410-199110/14	20.0	6.687865	50.0	911068.0	0.334393	Y
5	ICIS 410-199110/15	50.0	16.936296	50.0	905316.0	0.338726	Y
6	IC 410-199110/16	100.0	35.260067	50.0	887175.0	0.352601	Y
7	IC 410-199110/17	300.0	97.509891	50.0	985499.0	0.325033	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

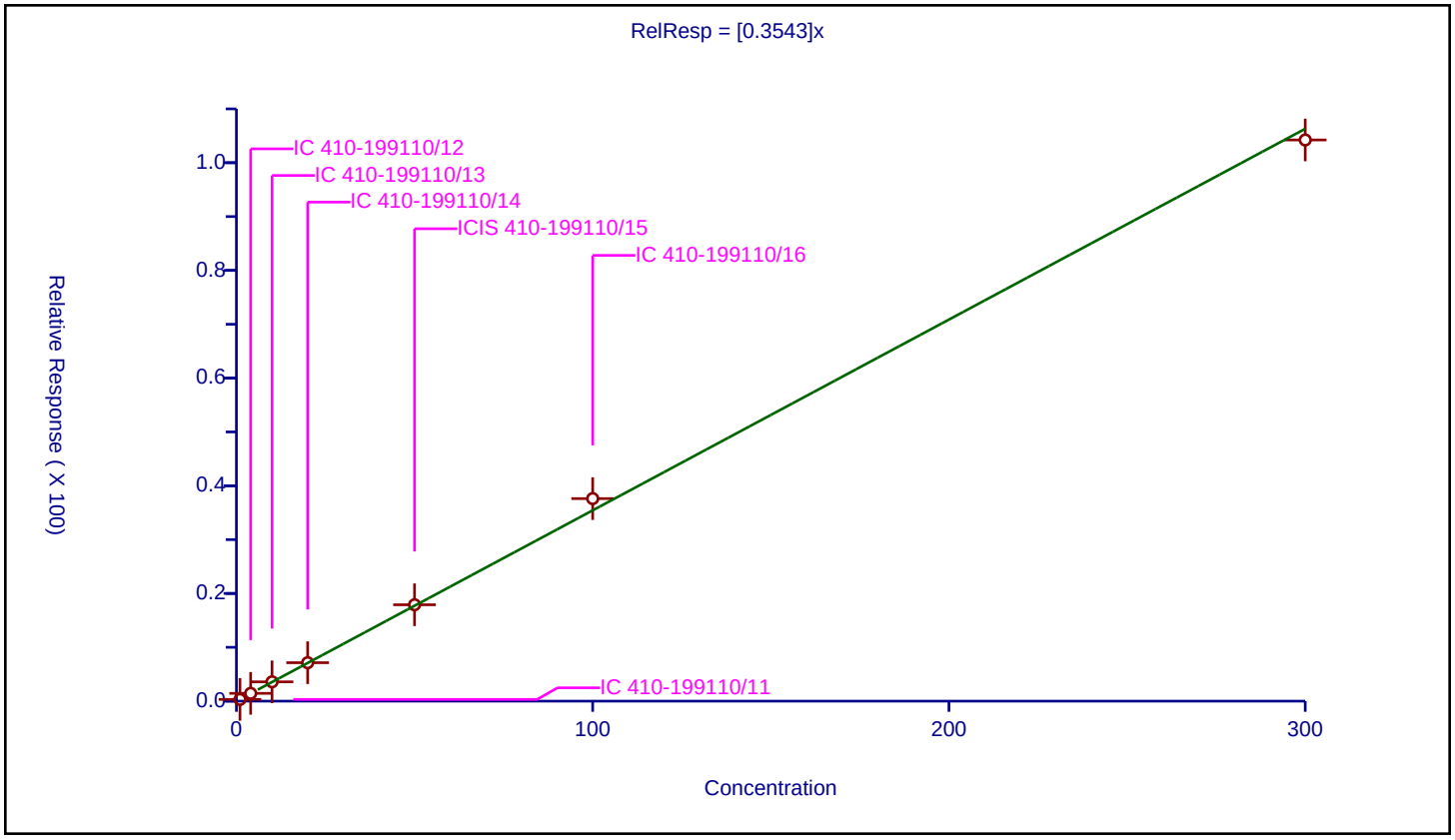
Curve Coefficients

Intercept:	0
Slope:	0.3543

Error Coefficients

Standard Error:	894000
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 410-199110/11	1.0	0.321511	50.0	864201.0	0.321511	Y
2	IC 410-199110/12	4.0	1.445486	50.0	911977.0	0.361372	Y
3	IC 410-199110/13	10.0	3.587908	50.0	862104.0	0.358791	Y
4	IC 410-199110/14	20.0	7.141015	50.0	911068.0	0.357051	Y
5	ICIS 410-199110/15	50.0	17.9006	50.0	905316.0	0.358012	Y
6	IC 410-199110/16	100.0	37.618114	50.0	887175.0	0.376181	Y
7	IC 410-199110/17	300.0	104.227757	50.0	985499.0	0.347426	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

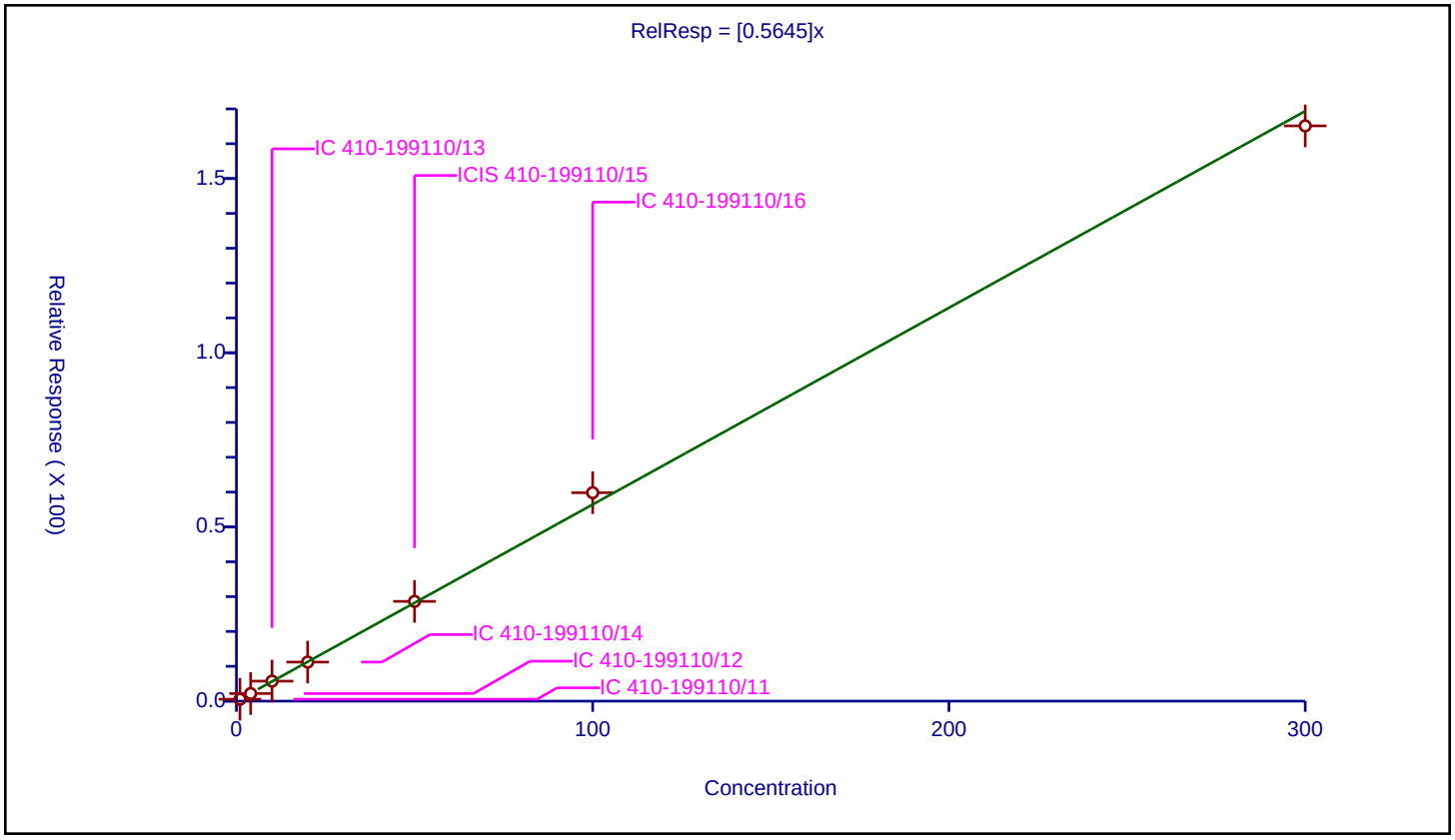
Curve Coefficients

Intercept:	0
Slope:	0.5645

Error Coefficients

Standard Error:	1420000
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 410-199110/11	1.0	0.548831	50.0	864201.0	0.548831	Y
2	IC 410-199110/12	4.0	2.185088	50.0	911977.0	0.546272	Y
3	IC 410-199110/13	10.0	5.742811	50.0	862104.0	0.574281	Y
4	IC 410-199110/14	20.0	11.214037	50.0	911068.0	0.560702	Y
5	ICIS 410-199110/15	50.0	28.638177	50.0	905316.0	0.572764	Y
6	IC 410-199110/16	100.0	59.832953	50.0	887175.0	0.59833	Y
7	IC 410-199110/17	300.0	165.125485	50.0	985499.0	0.550418	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

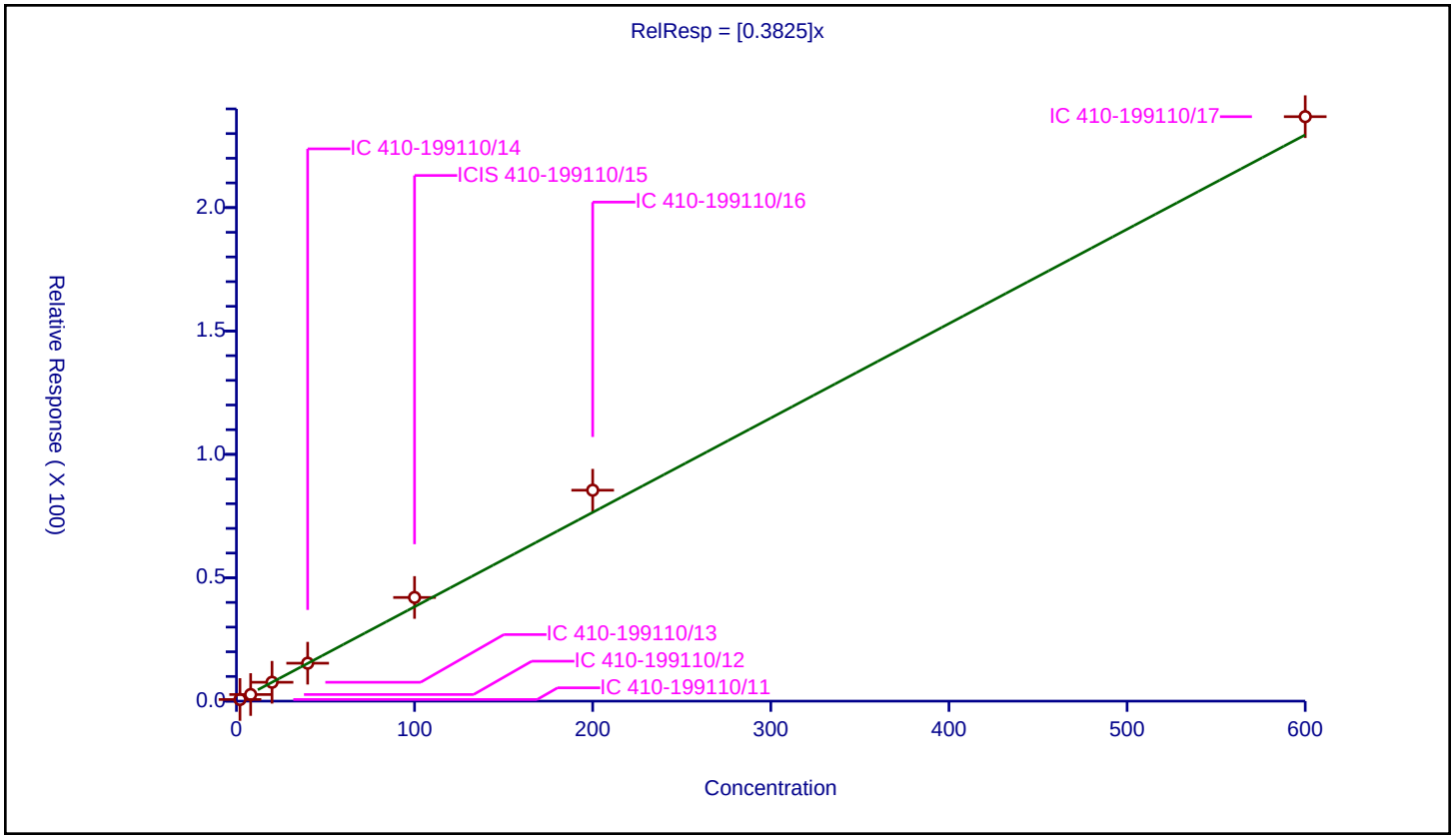
Curve Coefficients

Intercept:	0
Slope:	0.3825

Error Coefficients

Standard Error:	2030000
Relative Standard Error:	9.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	2.0	0.666222	50.0	864201.0	0.333111	Y
2	IC 410-199110/12	8.0	2.68214	50.0	911977.0	0.335268	Y
3	IC 410-199110/13	20.0	7.644495	50.0	862104.0	0.382225	Y
4	IC 410-199110/14	40.0	15.375417	50.0	911068.0	0.384385	Y
5	ICIS 410-199110/15	100.0	42.009309	50.0	905316.0	0.420093	Y
6	IC 410-199110/16	200.0	85.472145	50.0	887175.0	0.427361	Y
7	IC 410-199110/17	600.0	236.851636	50.0	985499.0	0.394753	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

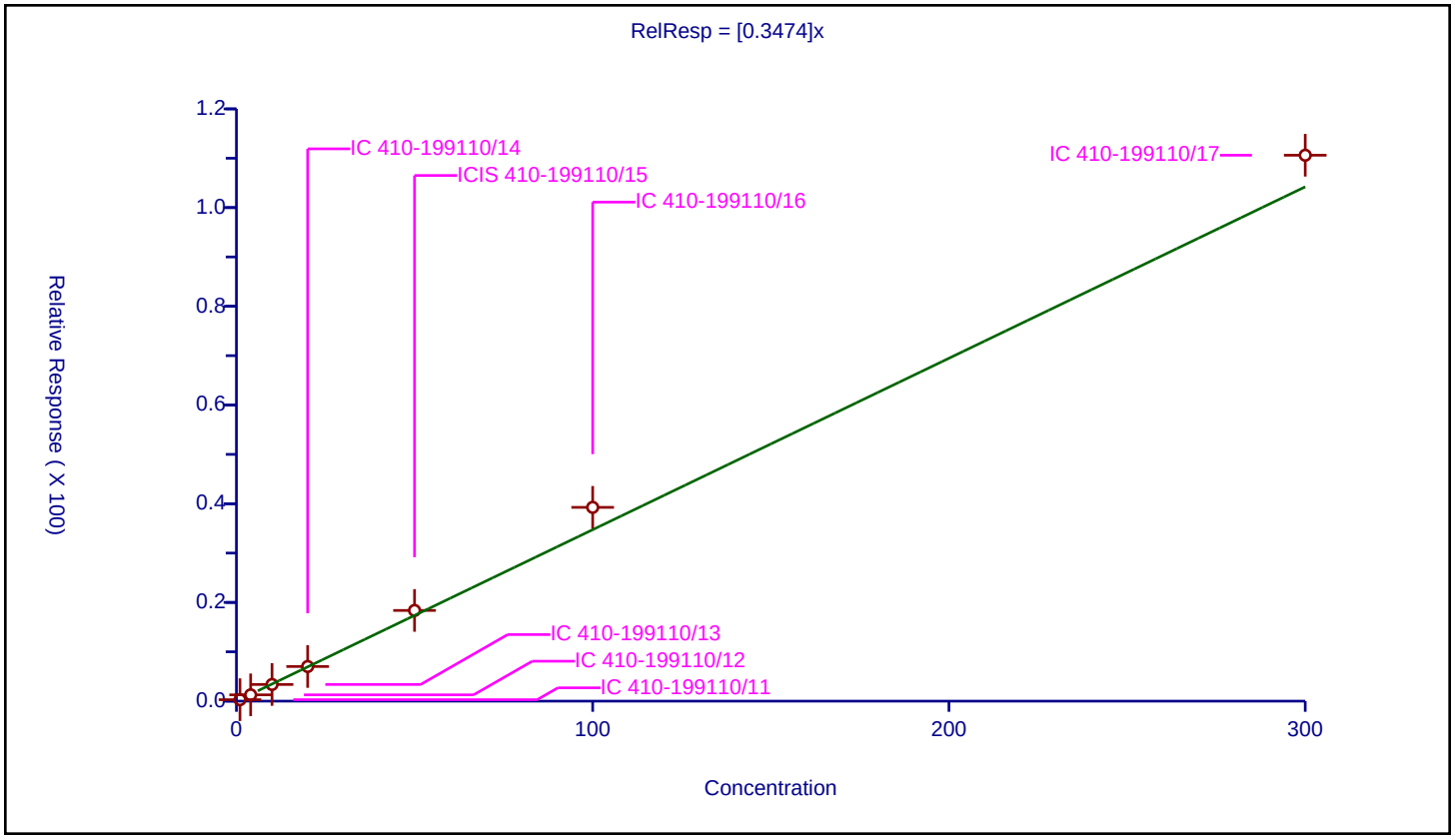
Curve Coefficients

Intercept:	0
Slope:	0.3474

Error Coefficients

Standard Error:	946000
Relative Standard Error:	9.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.295649	50.0	864201.0	0.295649	Y
2	IC 410-199110/12	4.0	1.275087	50.0	911977.0	0.318772	Y
3	IC 410-199110/13	10.0	3.374419	50.0	862104.0	0.337442	Y
4	IC 410-199110/14	20.0	7.017478	50.0	911068.0	0.350874	Y
5	ICIS 410-199110/15	50.0	18.375186	50.0	905316.0	0.367504	Y
6	IC 410-199110/16	100.0	39.261871	50.0	887175.0	0.392619	Y
7	IC 410-199110/17	300.0	110.608534	50.0	985499.0	0.368695	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

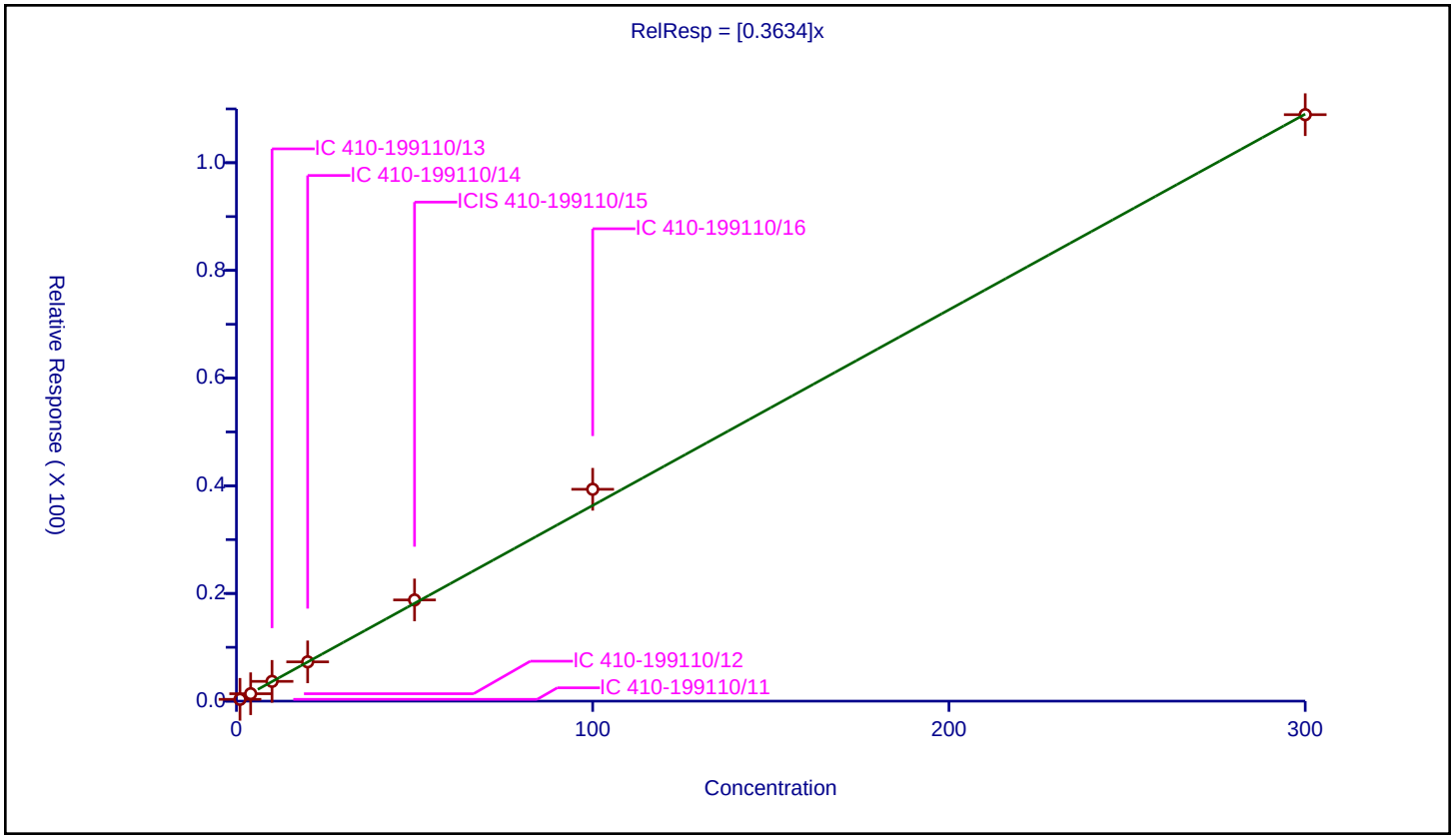
Curve Coefficients

Intercept:	0
Slope:	0.3634

Error Coefficients

Standard Error:	934000
Relative Standard Error:	5.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.334587	50.0	864201.0	0.334587	Y
2	IC 410-199110/12	4.0	1.379859	50.0	911977.0	0.344965	Y
3	IC 410-199110/13	10.0	3.672063	50.0	862104.0	0.367206	Y
4	IC 410-199110/14	20.0	7.296492	50.0	911068.0	0.364825	Y
5	ICIS 410-199110/15	50.0	18.79631	50.0	905316.0	0.375926	Y
6	IC 410-199110/16	100.0	39.351594	50.0	887175.0	0.393516	Y
7	IC 410-199110/17	300.0	108.927508	50.0	985499.0	0.363092	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

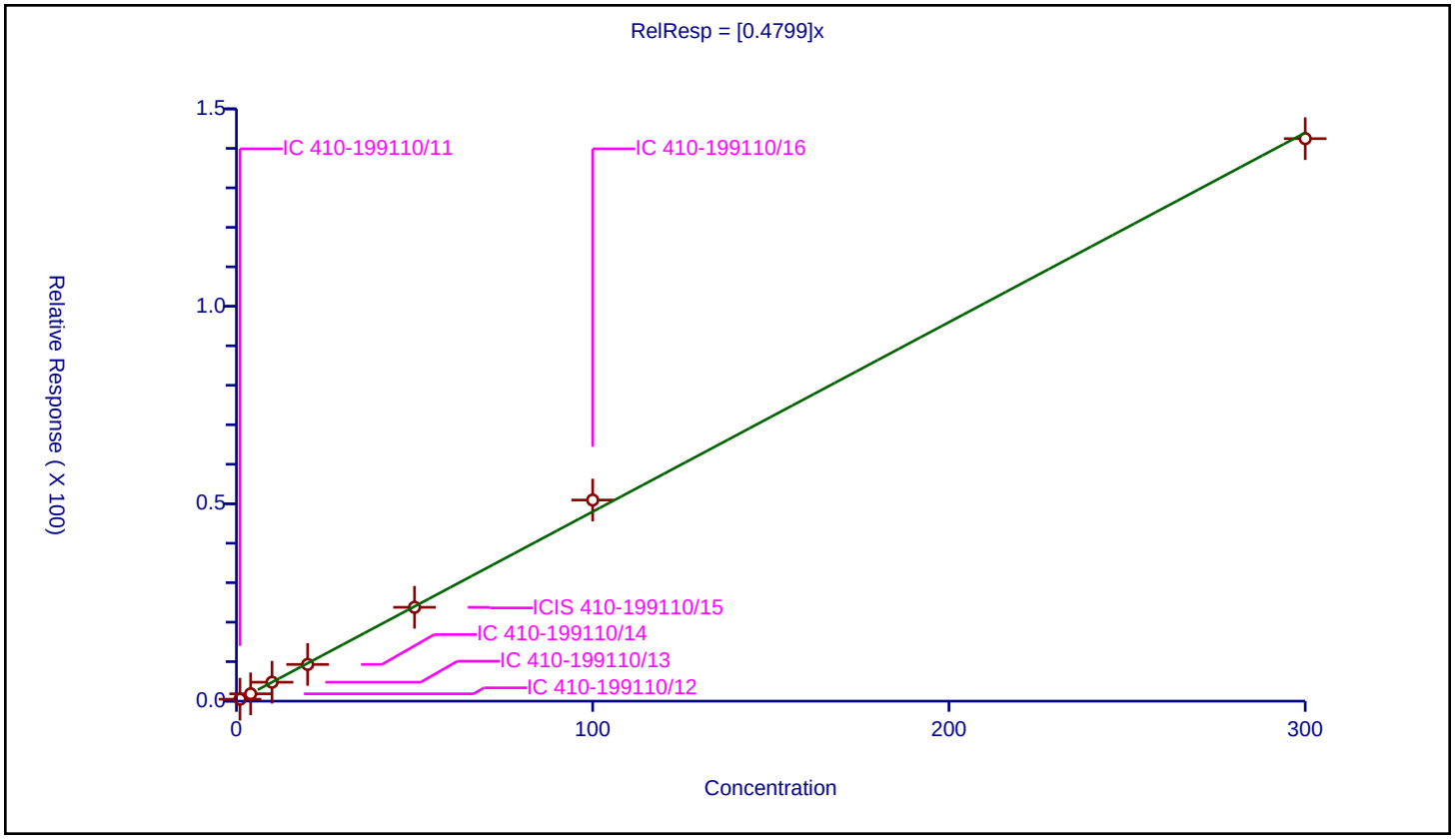
Curve Coefficients

Intercept:	0
Slope:	0.4799

Error Coefficients

Standard Error:	1220000
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 410-199110/11	1.0	0.491437	50.0	864201.0	0.491437	Y
2	IC 410-199110/12	4.0	1.855145	50.0	911977.0	0.463786	Y
3	IC 410-199110/13	10.0	4.794259	50.0	862104.0	0.479426	Y
4	IC 410-199110/14	20.0	9.296123	50.0	911068.0	0.464806	Y
5	ICIS 410-199110/15	50.0	23.768717	50.0	905316.0	0.475374	Y
6	IC 410-199110/16	100.0	50.931158	50.0	887175.0	0.509312	Y
7	IC 410-199110/17	300.0	142.459099	50.0	985499.0	0.474864	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

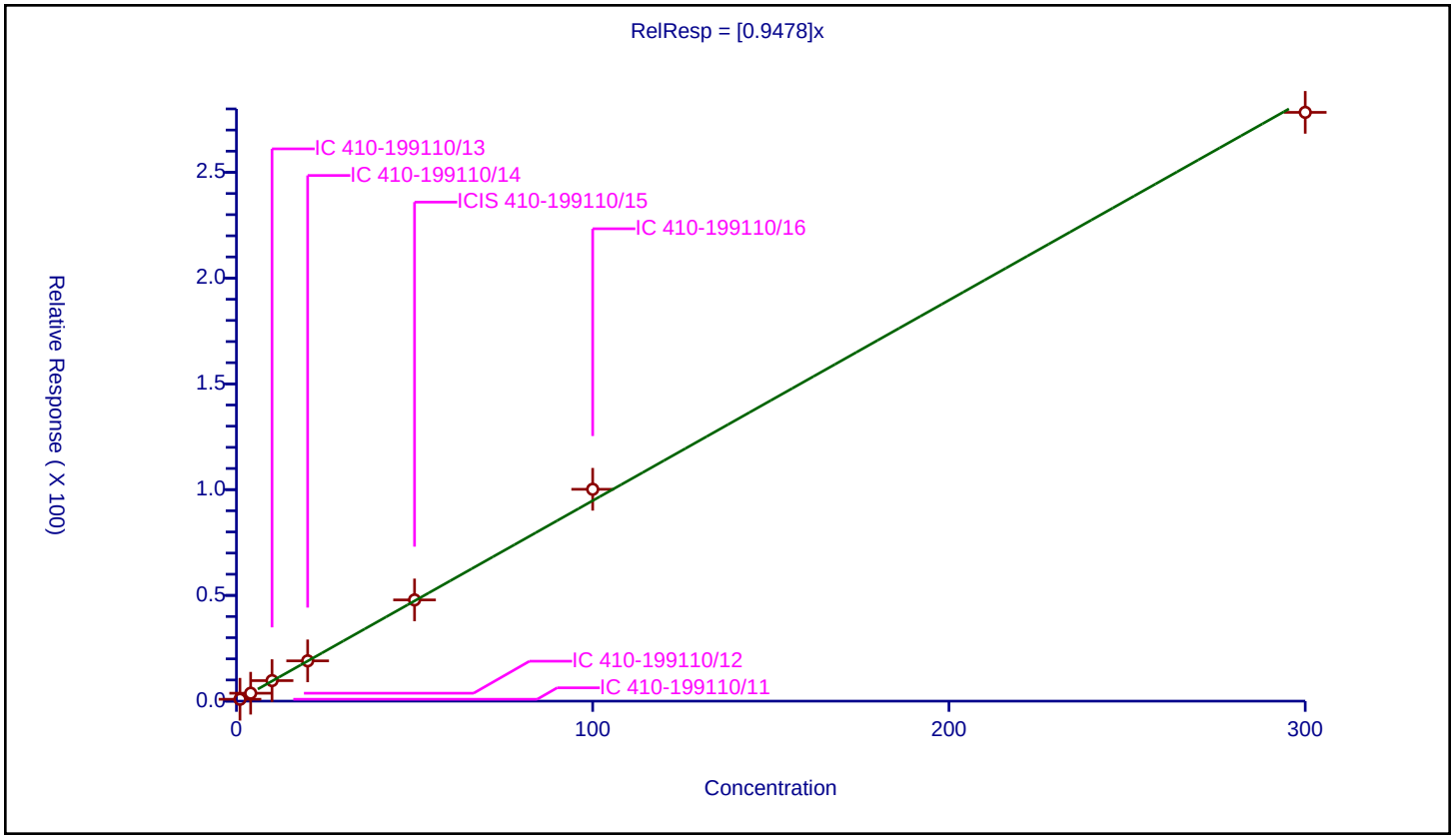
Curve Coefficients

Intercept:	0
Slope:	0.9478

Error Coefficients

Standard Error:	2390000
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 410-199110/11	1.0	0.890129	50.0	864201.0	0.890129	Y
2	IC 410-199110/12	4.0	3.741816	50.0	911977.0	0.935454	Y
3	IC 410-199110/13	10.0	9.698424	50.0	862104.0	0.969842	Y
4	IC 410-199110/14	20.0	19.045834	50.0	911068.0	0.952292	Y
5	ICIS 410-199110/15	50.0	47.854175	50.0	905316.0	0.957083	Y
6	IC 410-199110/16	100.0	100.161186	50.0	887175.0	1.001612	Y
7	IC 410-199110/17	300.0	278.364209	50.0	985499.0	0.927881	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

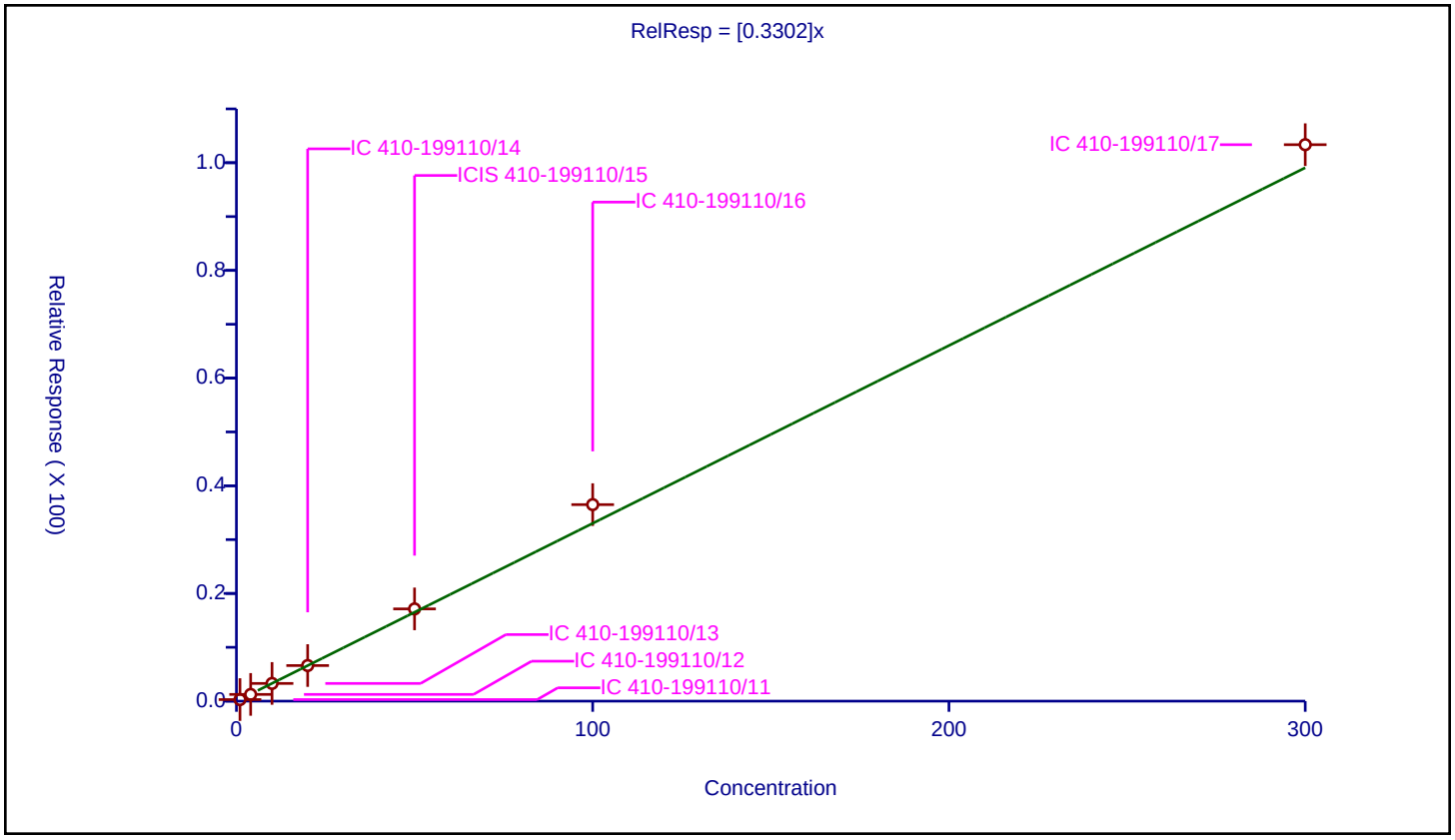
Curve Coefficients

Intercept:	0
Slope:	0.3302

Error Coefficients

Standard Error:	883000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.287722	50.0	864201.0	0.287722	Y
2	IC 410-199110/12	4.0	1.24888	50.0	911977.0	0.31222	Y
3	IC 410-199110/13	10.0	3.288002	50.0	862104.0	0.3288	Y
4	IC 410-199110/14	20.0	6.612624	50.0	911068.0	0.330631	Y
5	ICIS 410-199110/15	50.0	17.132416	50.0	905316.0	0.342648	Y
6	IC 410-199110/16	100.0	36.500014	50.0	887175.0	0.365	Y
7	IC 410-199110/17	300.0	103.353073	50.0	985499.0	0.34451	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

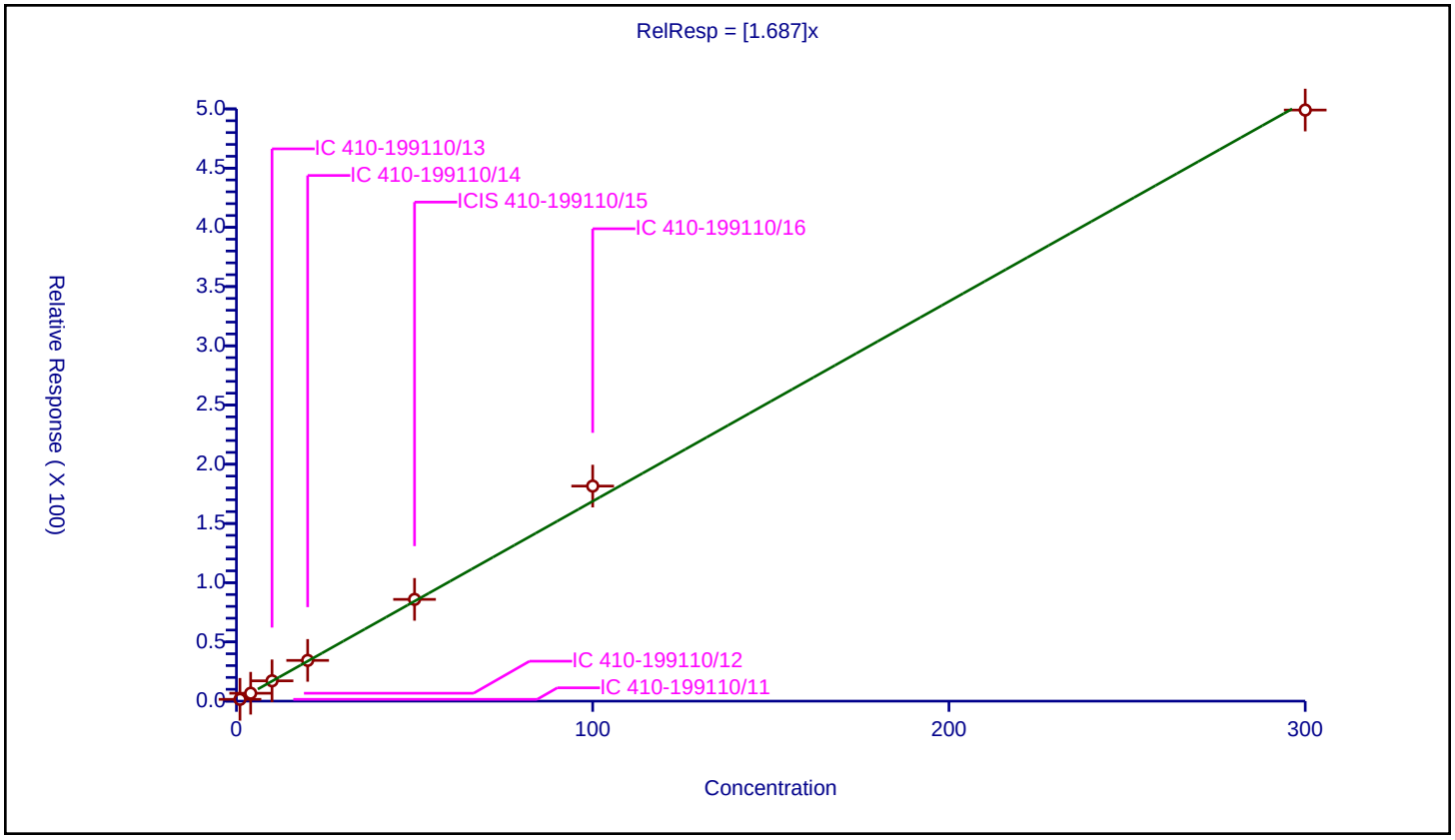
Curve Coefficients

Intercept:	0
Slope:	1.687

Error Coefficients

Standard Error:	4280000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	1.514752	50.0	864201.0	1.514752	Y
2	IC 410-199110/12	4.0	6.657131	50.0	911977.0	1.664283	Y
3	IC 410-199110/13	10.0	17.150193	50.0	862104.0	1.715019	Y
4	IC 410-199110/14	20.0	34.398914	50.0	911068.0	1.719946	Y
5	ICIS 410-199110/15	50.0	85.907573	50.0	905316.0	1.718151	Y
6	IC 410-199110/16	100.0	181.567729	50.0	887175.0	1.815677	Y
7	IC 410-199110/17	300.0	499.024961	50.0	985499.0	1.663417	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

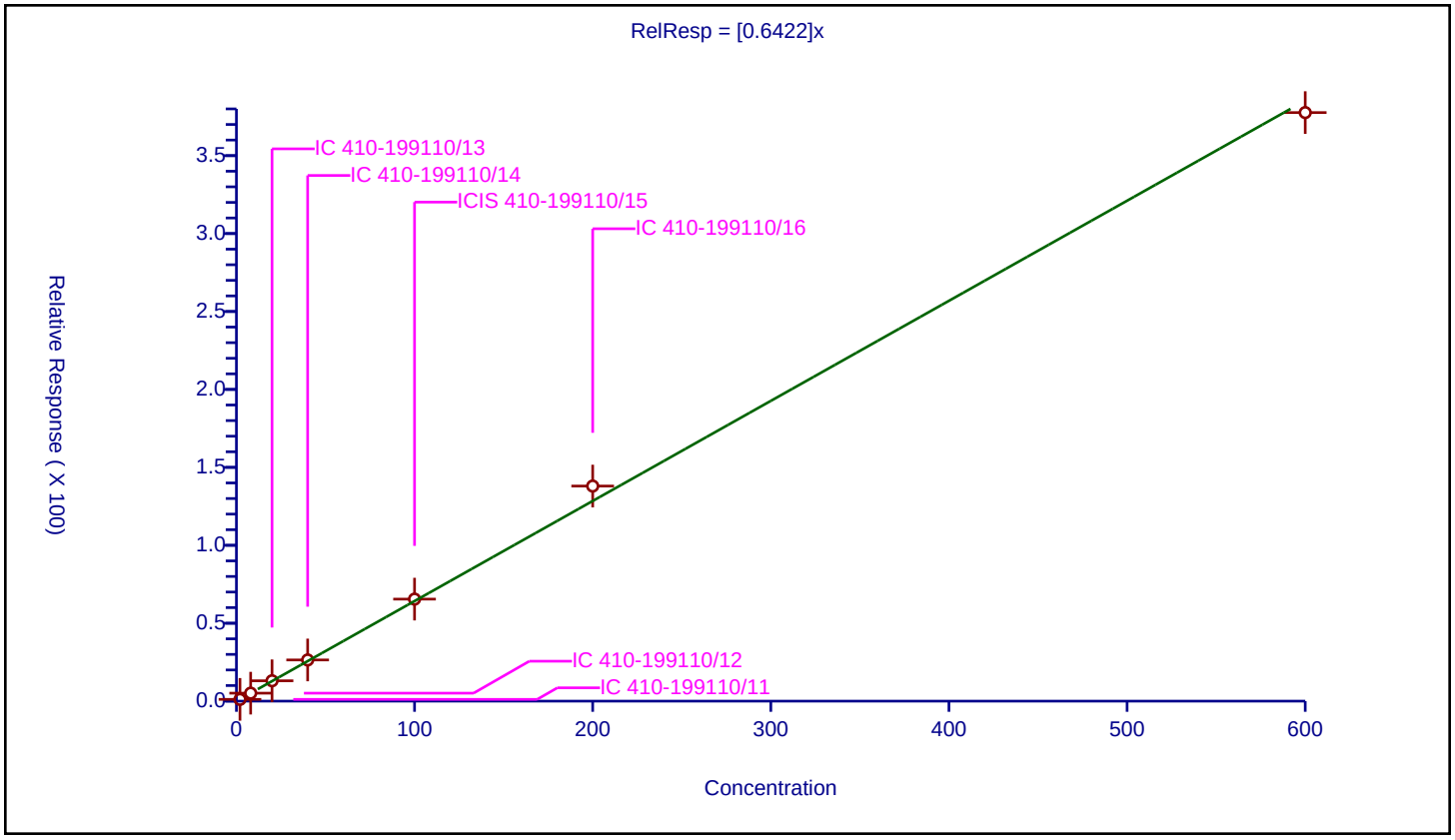
Curve Coefficients

Intercept:	0
Slope:	0.6422

Error Coefficients

Standard Error:	3240000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	2.0	1.132665	50.0	864201.0	0.566332	Y
2	IC 410-199110/12	8.0	5.124033	50.0	911977.0	0.640504	Y
3	IC 410-199110/13	20.0	13.071219	50.0	862104.0	0.653561	Y
4	IC 410-199110/14	40.0	26.428872	50.0	911068.0	0.660722	Y
5	ICIS 410-199110/15	100.0	65.46101	50.0	905316.0	0.65461	Y
6	IC 410-199110/16	200.0	137.997238	50.0	887175.0	0.689986	Y
7	IC 410-199110/17	600.0	377.624584	50.0	985499.0	0.629374	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

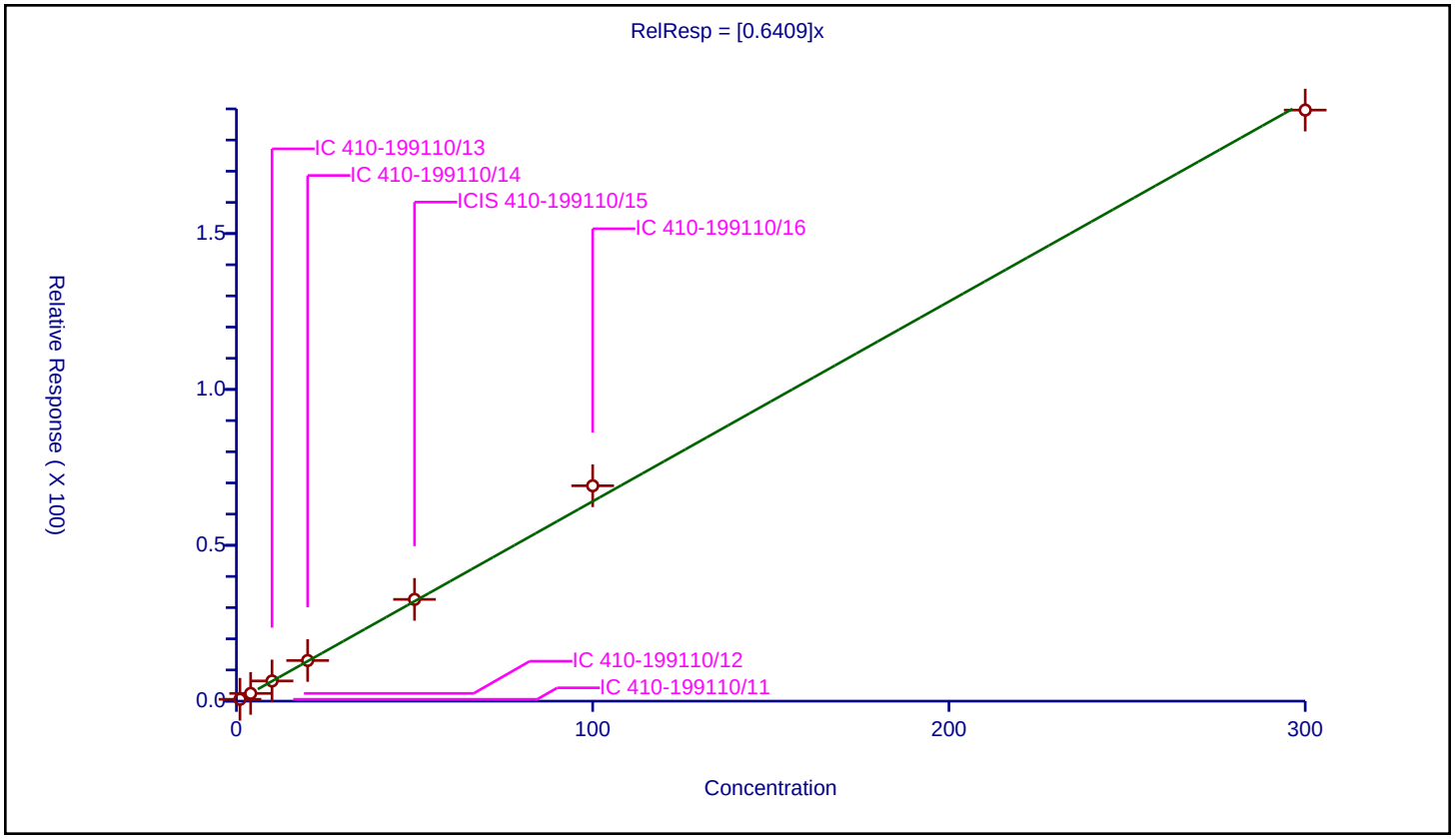
Curve Coefficients

Intercept:	0
Slope:	0.6409

Error Coefficients

Standard Error:	1630000
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 410-199110/11	1.0	0.591008	50.0	864201.0	0.591008	Y
2	IC 410-199110/12	4.0	2.478516	50.0	911977.0	0.619629	Y
3	IC 410-199110/13	10.0	6.476713	50.0	862104.0	0.647671	Y
4	IC 410-199110/14	20.0	13.046995	50.0	911068.0	0.65235	Y
5	ICIS 410-199110/15	50.0	32.645065	50.0	905316.0	0.652901	Y
6	IC 410-199110/16	100.0	69.094316	50.0	887175.0	0.690943	Y
7	IC 410-199110/17	300.0	189.61932	50.0	985499.0	0.632064	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

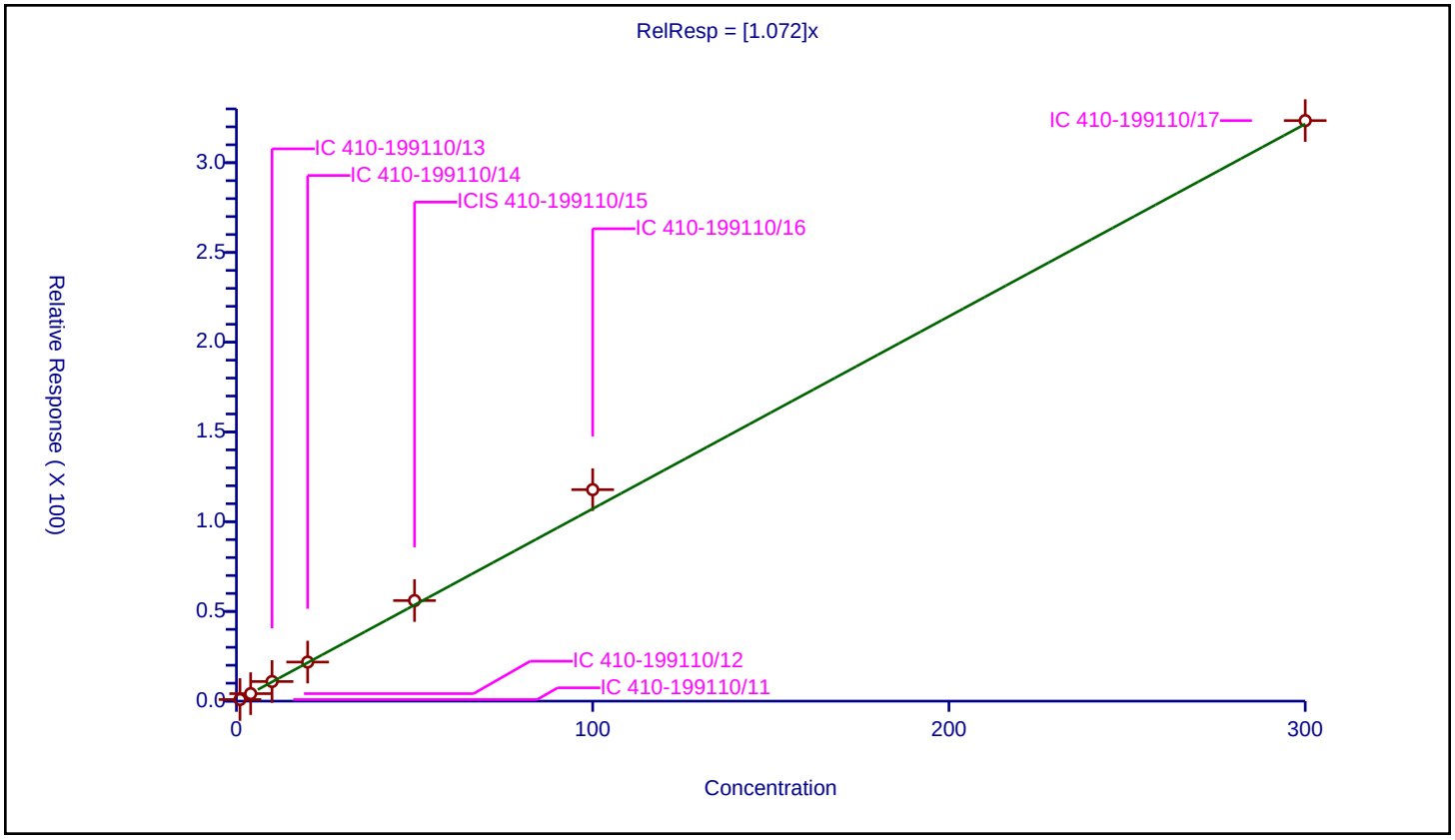
Curve Coefficients

Intercept:	0
Slope:	1.072

Error Coefficients

Standard Error:	2780000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.898402	50.0	864201.0	0.898402	Y
2	IC 410-199110/12	4.0	4.178779	50.0	911977.0	1.044695	Y
3	IC 410-199110/13	10.0	10.936442	50.0	862104.0	1.093644	Y
4	IC 410-199110/14	20.0	21.783555	50.0	911068.0	1.089178	Y
5	ICIS 410-199110/15	50.0	56.039714	50.0	905316.0	1.120794	Y
6	IC 410-199110/16	100.0	117.833347	50.0	887175.0	1.178333	Y
7	IC 410-199110/17	300.0	323.466437	50.0	985499.0	1.078221	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

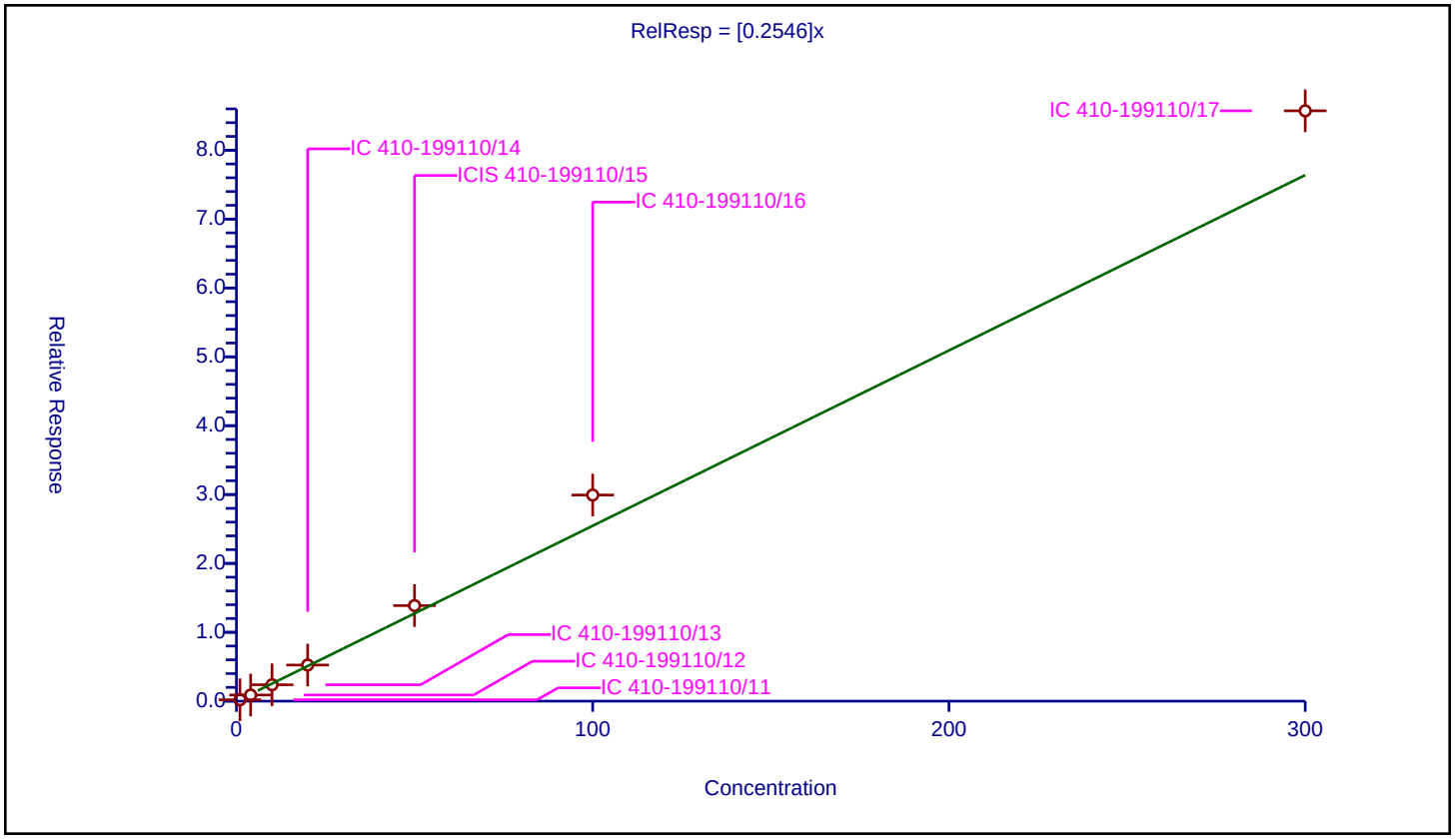
Curve Coefficients

Intercept:	0
Slope:	0.2546

Error Coefficients

Standard Error:	731000
Relative Standard Error:	14.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.197292	50.0	864201.0	0.197292	Y
2	IC 410-199110/12	4.0	0.890428	50.0	911977.0	0.222607	Y
3	IC 410-199110/13	10.0	2.377787	50.0	862104.0	0.237779	Y
4	IC 410-199110/14	20.0	5.242309	50.0	911068.0	0.262115	Y
5	ICIS 410-199110/15	50.0	13.873774	50.0	905316.0	0.277475	Y
6	IC 410-199110/16	100.0	29.928143	50.0	887175.0	0.299281	Y
7	IC 410-199110/17	300.0	85.718504	50.0	985499.0	0.285728	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

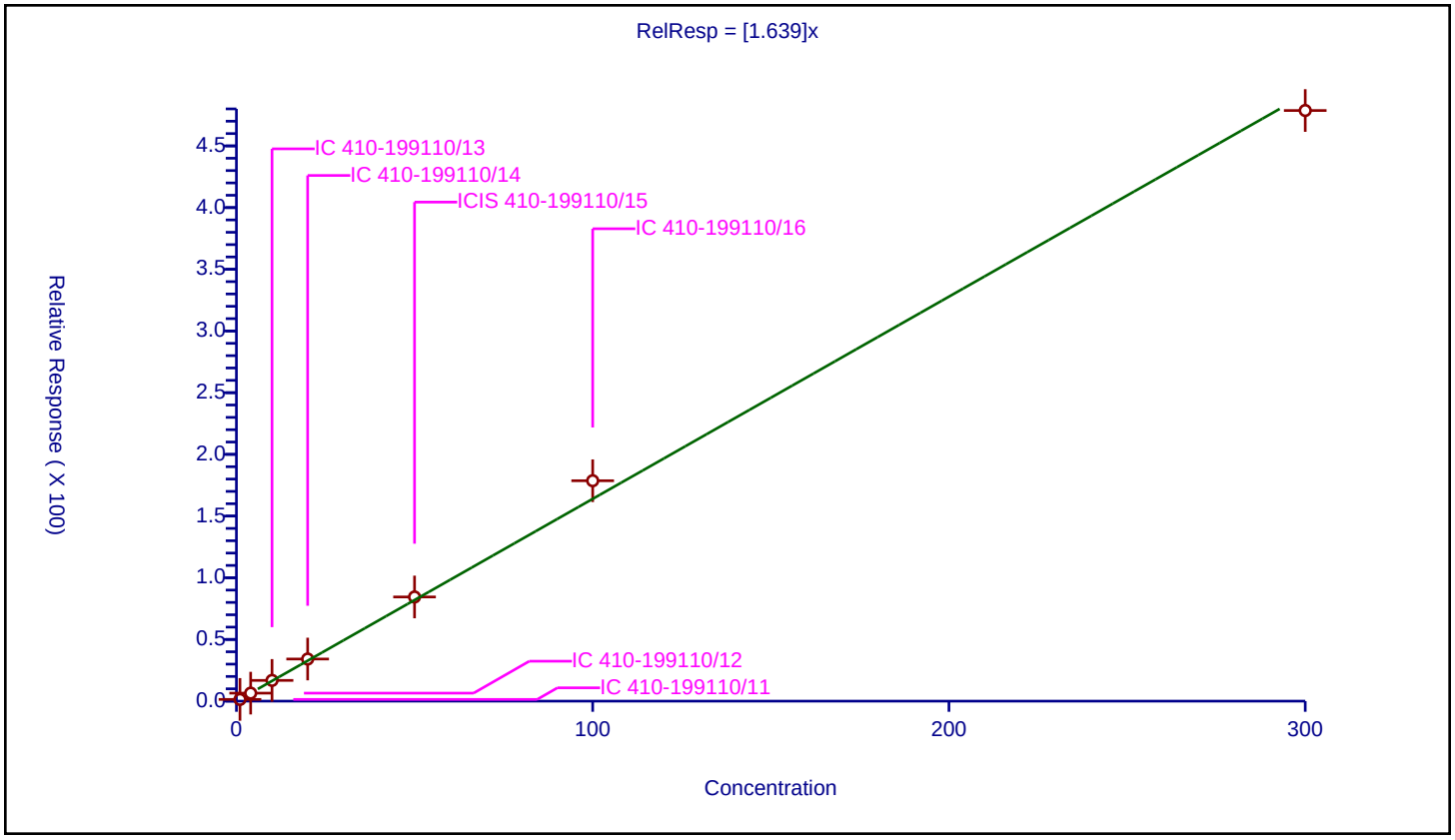
Curve Coefficients

Intercept:	0
Slope:	1.639

Error Coefficients

Standard Error:	4120000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	1.394757	50.0	864201.0	1.394757	Y
2	IC 410-199110/12	4.0	6.485196	50.0	911977.0	1.621299	Y
3	IC 410-199110/13	10.0	16.808993	50.0	862104.0	1.680899	Y
4	IC 410-199110/14	20.0	34.140042	50.0	911068.0	1.707002	Y
5	ICIS 410-199110/15	50.0	84.425052	50.0	905316.0	1.688501	Y
6	IC 410-199110/16	100.0	178.62575	50.0	887175.0	1.786258	Y
7	IC 410-199110/17	300.0	478.682322	50.0	985499.0	1.595608	Y



Calibration / Cyclohexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

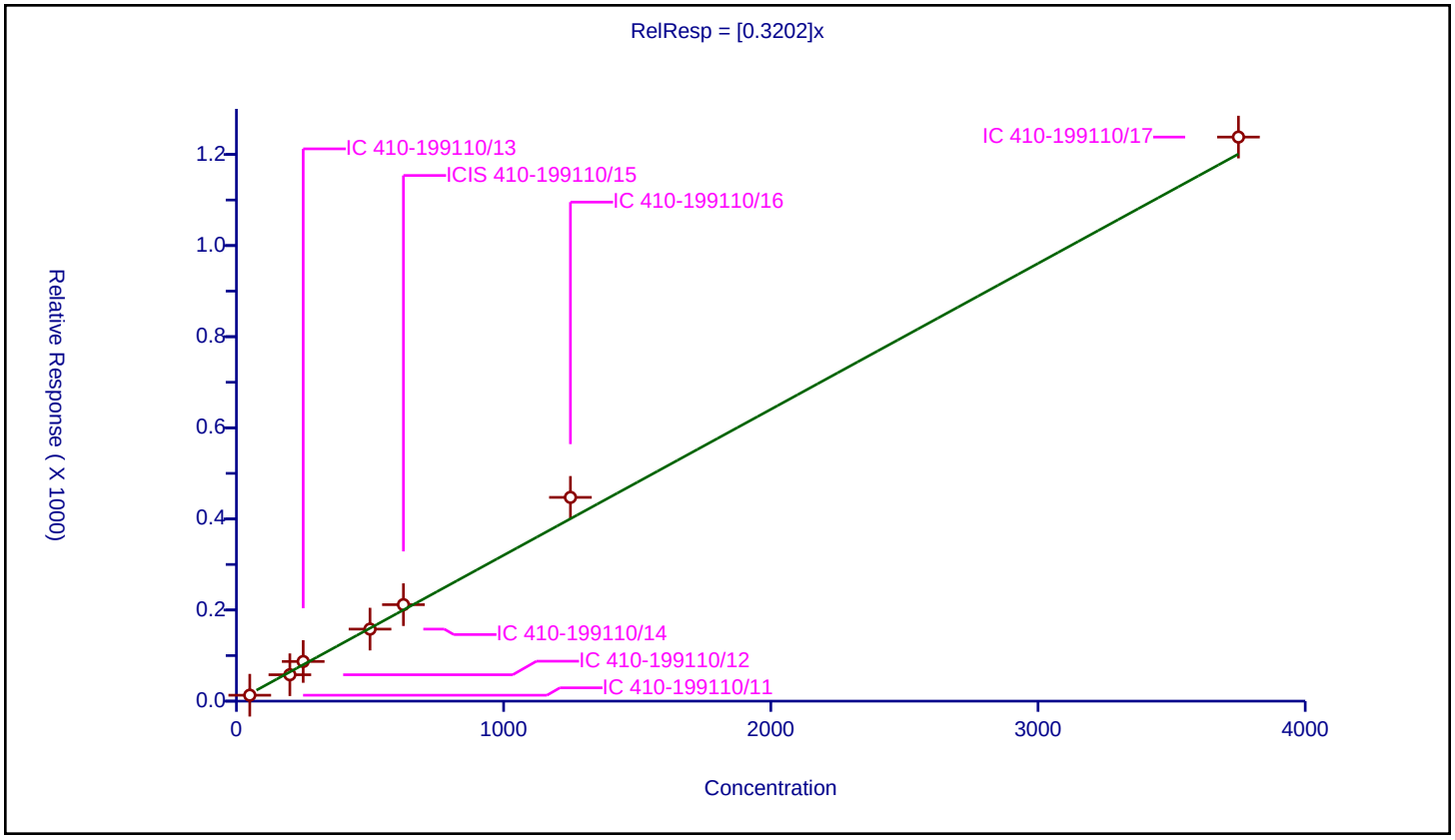
Curve Coefficients

Intercept:	0
Slope:	0.3202

Error Coefficients

Standard Error:	558000
Relative Standard Error:	10.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	50.00111	13.029531	250.0	254211.0	0.260585	Y
2	IC 410-199110/12	200.004442	57.948161	250.0	245258.0	0.289734	Y
3	IC 410-199110/13	250.005552	87.093505	250.0	226940.0	0.348366	Y
4	IC 410-199110/14	500.011104	158.125914	250.0	244914.0	0.316245	Y
5	ICIS 410-199110/15	625.01388	211.772221	250.0	235614.0	0.338828	Y
6	IC 410-199110/16	1250.02776	447.255706	250.0	231371.0	0.357797	Y
7	IC 410-199110/17	3750.08328	1238.17405	250.0	257696.0	0.330172	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

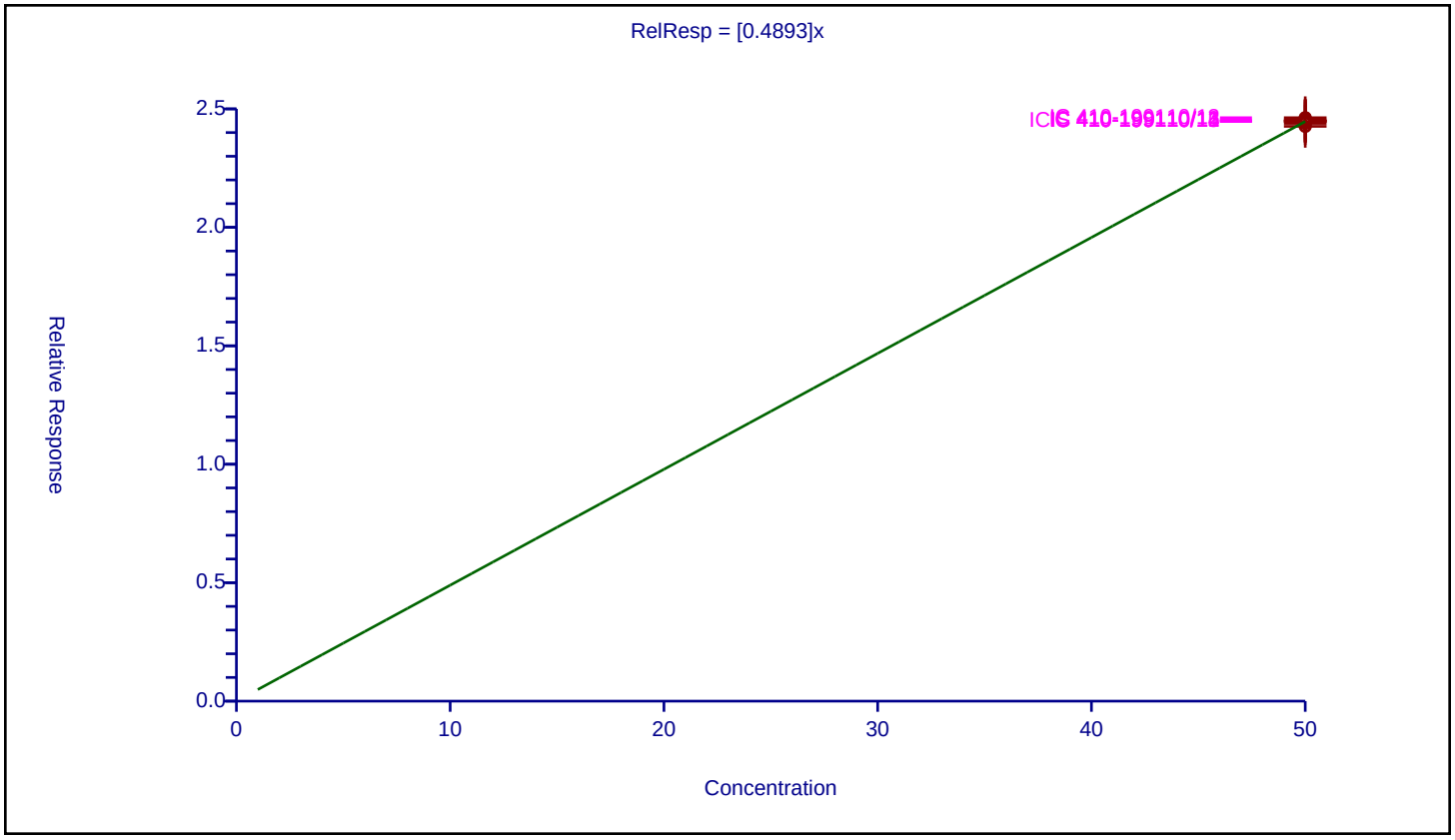
Curve Coefficients

Intercept:	0
Slope:	0.4893

Error Coefficients

Standard Error:	478000
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 410-199110/11	50.0	24.473762	50.0	864201.0	0.489475	Y
2	IC 410-199110/12	50.0	24.531485	50.0	911977.0	0.49063	Y
3	IC 410-199110/13	50.0	24.628061	50.0	862104.0	0.492561	Y
4	IC 410-199110/14	50.0	24.472323	50.0	911068.0	0.489446	Y
5	ICIS 410-199110/15	50.0	24.504096	50.0	905316.0	0.490082	Y
6	IC 410-199110/16	50.0	24.386001	50.0	887175.0	0.48772	Y
7	IC 410-199110/17	50.0	24.262835	50.0	985499.0	0.485257	Y



Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

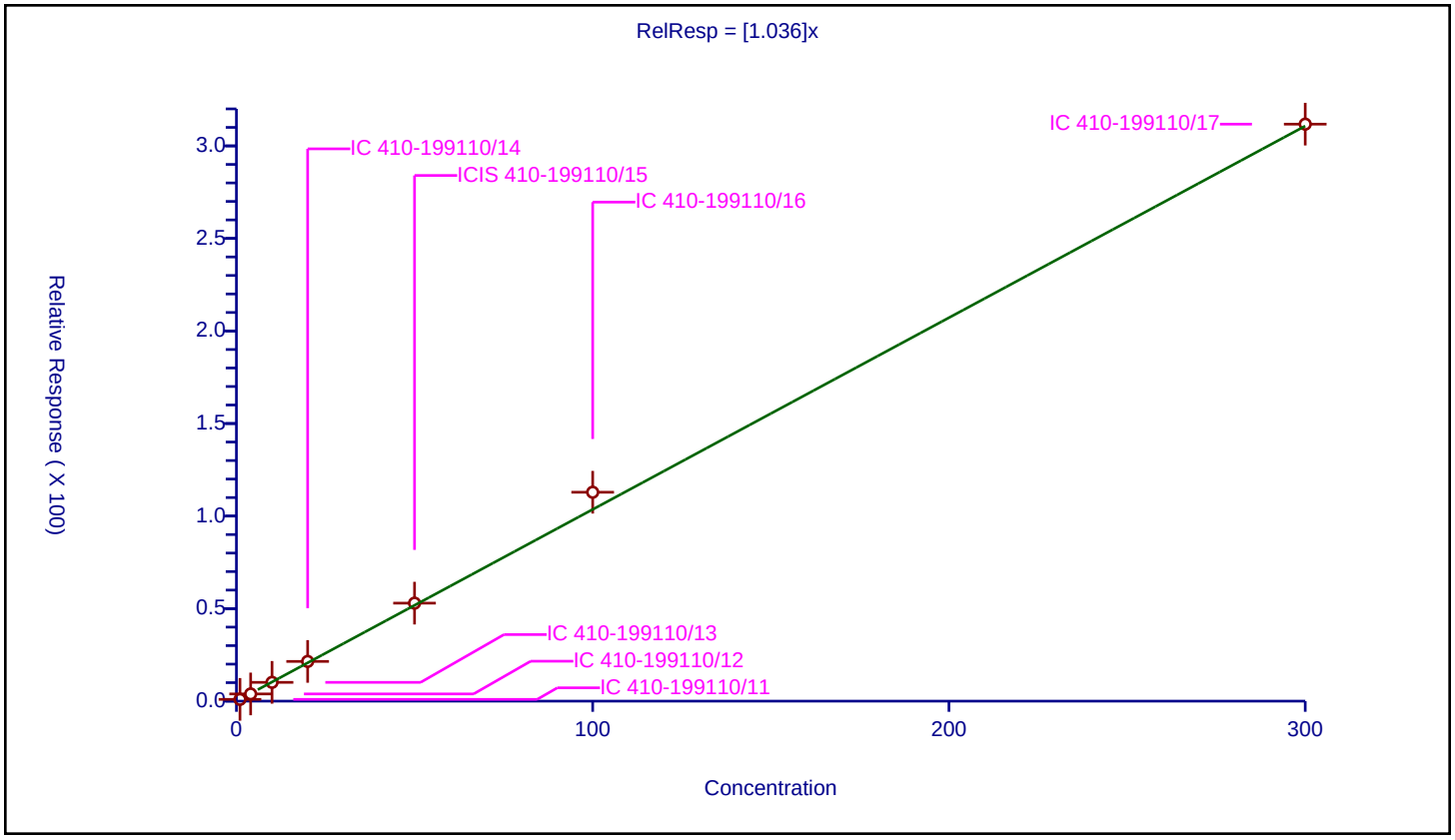
Curve Coefficients

Intercept:	0
Slope:	1.036

Error Coefficients

Standard Error:	1400000
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 410-199110/11	1.0	0.961687	50.0	467356.0	0.961687	Y
2	IC 410-199110/12	4.0	3.895879	50.0	493175.0	0.97397	Y
3	IC 410-199110/13	10.0	10.149809	50.0	465058.0	1.014981	Y
4	IC 410-199110/14	20.0	21.465274	50.0	489069.0	1.073264	Y
5	ICIS 410-199110/15	50.0	52.9578	50.0	483197.0	1.059156	Y
6	IC 410-199110/16	100.0	112.870349	50.0	463752.0	1.128703	Y
7	IC 410-199110/17	300.0	311.748514	50.0	516427.0	1.039162	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

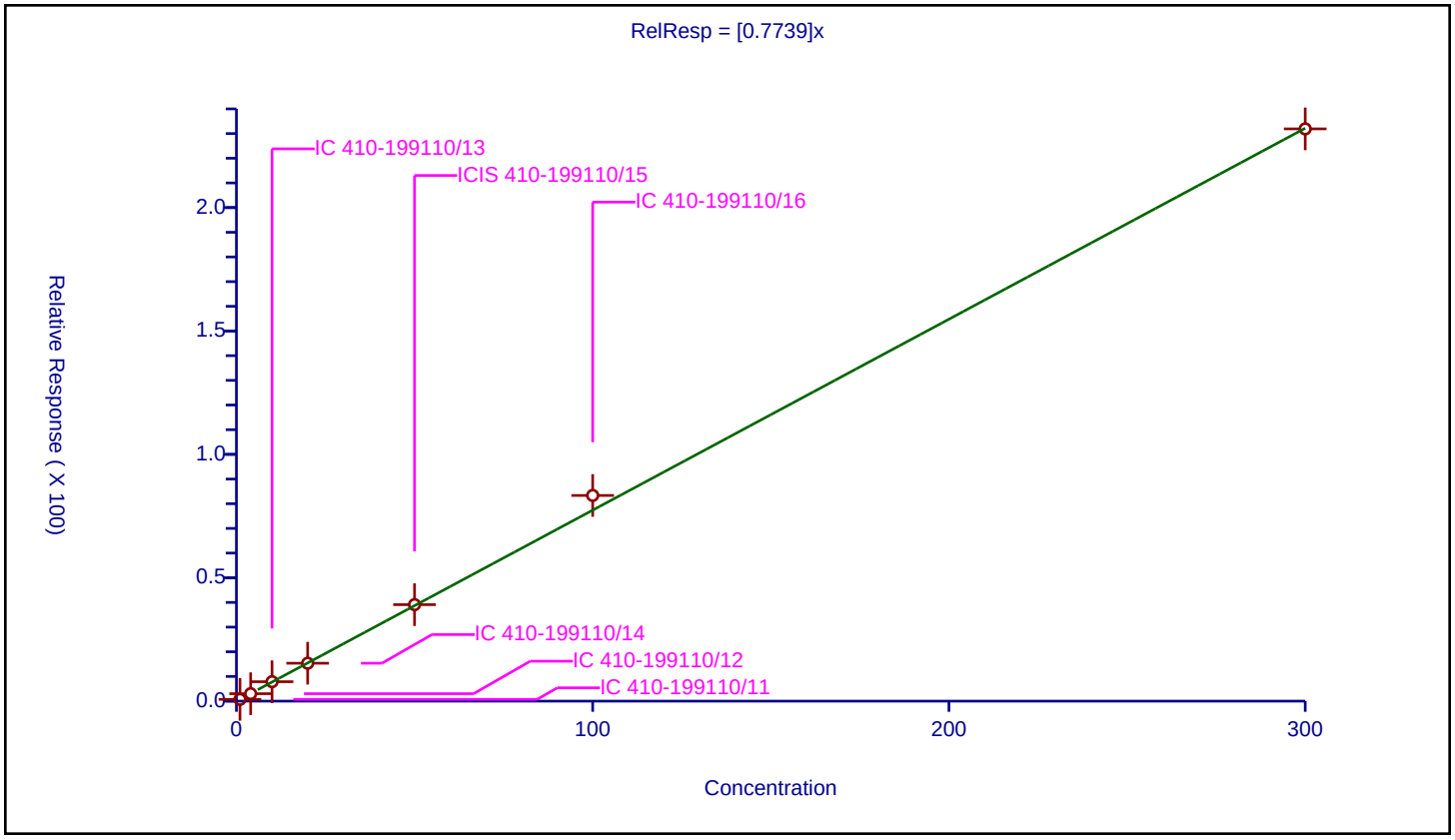
Curve Coefficients

Intercept:	0
Slope:	0.7739

Error Coefficients

Standard Error:	1040000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.720222	50.0	467356.0	0.720222	Y
2	IC 410-199110/12	4.0	3.011406	50.0	493175.0	0.752851	Y
3	IC 410-199110/13	10.0	7.875147	50.0	465058.0	0.787515	Y
4	IC 410-199110/14	20.0	15.361738	50.0	489069.0	0.768087	Y
5	ICIS 410-199110/15	50.0	39.099063	50.0	483197.0	0.781981	Y
6	IC 410-199110/16	100.0	83.34832	50.0	463752.0	0.833483	Y
7	IC 410-199110/17	300.0	231.907898	50.0	516427.0	0.773026	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

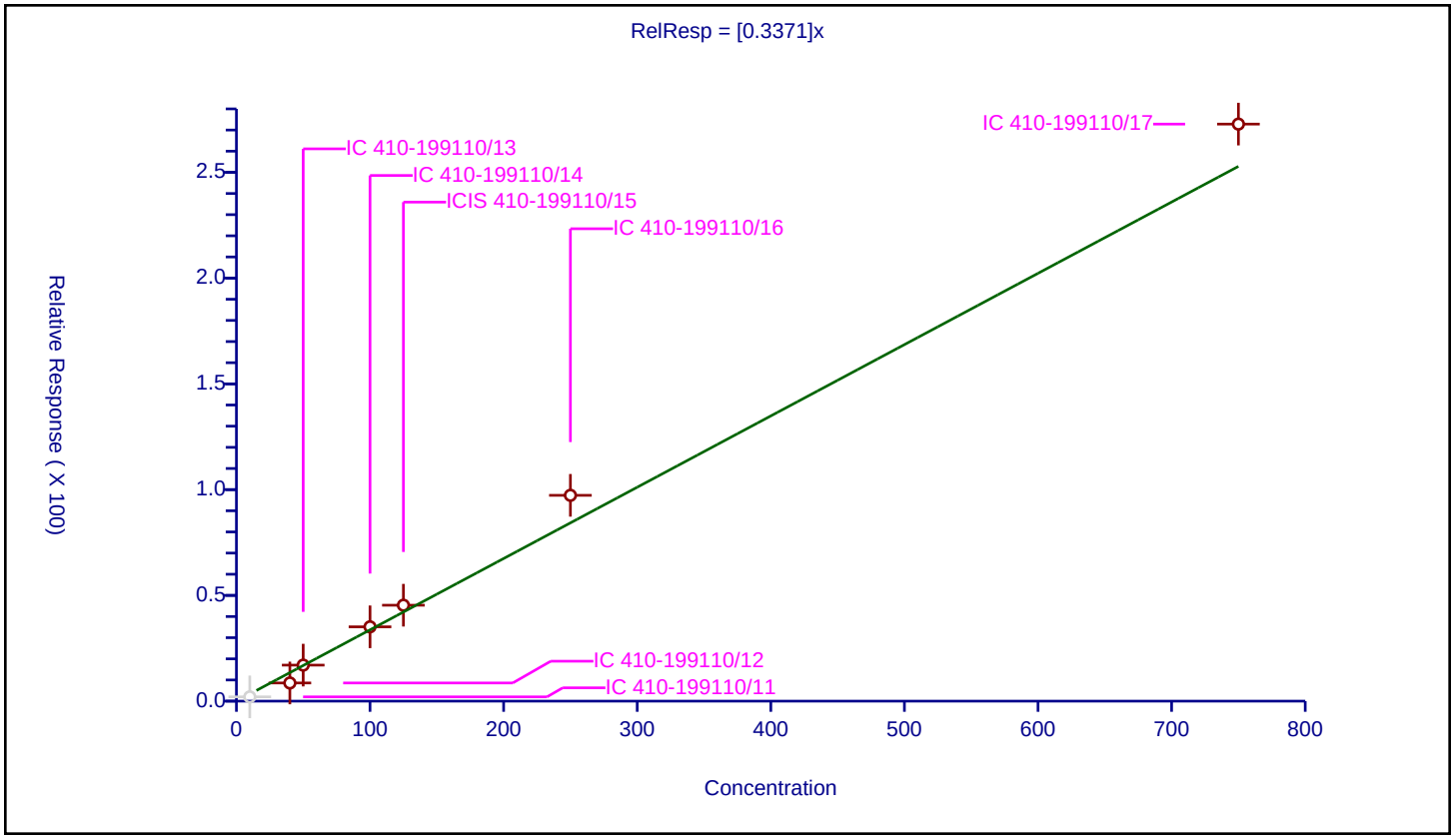
Curve Coefficients

Intercept:	0
Slope:	0.3371

Error Coefficients

Standard Error:	1350000
Relative Standard Error:	18.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.945

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	10.0	2.023725	50.0	467356.0	0.202372	N
2	IC 410-199110/12	40.0	8.591474	50.0	493175.0	0.214787	Y
3	IC 410-199110/13	50.0	17.033897	50.0	465058.0	0.340678	Y
4	IC 410-199110/14	100.0	35.133591	50.0	489069.0	0.351336	Y
5	ICIS 410-199110/15	125.0	45.348791	50.0	483197.0	0.36279	Y
6	IC 410-199110/16	250.0	97.310092	50.0	463752.0	0.38924	Y
7	IC 410-199110/17	750.0	272.810872	50.0	516427.0	0.363748	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

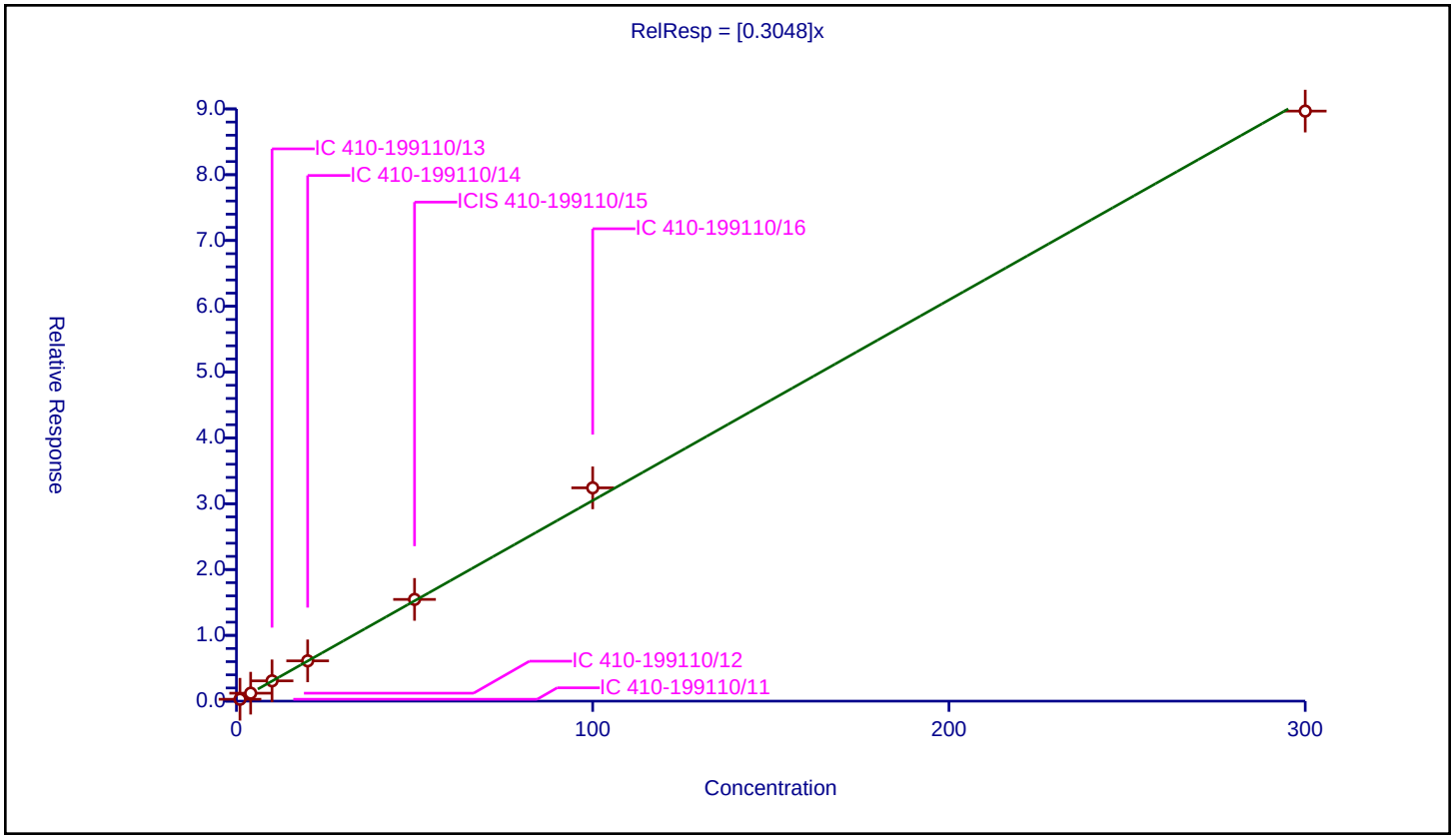
Curve Coefficients

Intercept:	0
Slope:	0.3048

Error Coefficients

Standard Error:	403000
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 410-199110/11	1.0	0.285649	50.0	467356.0	0.285649	Y
2	IC 410-199110/12	4.0	1.206772	50.0	493175.0	0.301693	Y
3	IC 410-199110/13	10.0	3.082519	50.0	465058.0	0.308252	Y
4	IC 410-199110/14	20.0	6.119791	50.0	489069.0	0.30599	Y
5	ICIS 410-199110/15	50.0	15.45767	50.0	483197.0	0.309153	Y
6	IC 410-199110/16	100.0	32.415494	50.0	463752.0	0.324155	Y
7	IC 410-199110/17	300.0	89.669014	50.0	516427.0	0.298897	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

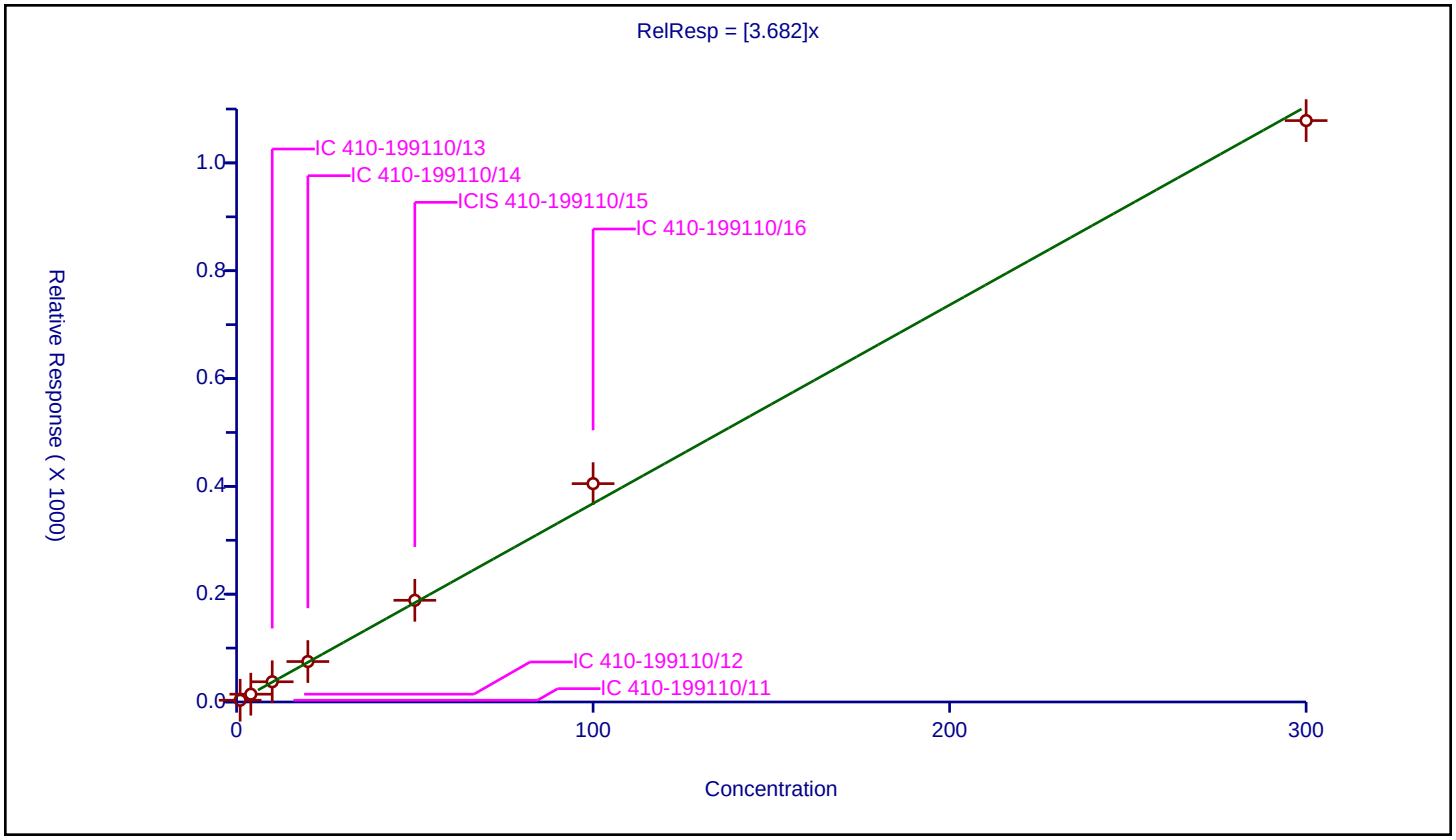
Curve Coefficients

Intercept:	0
Slope:	3.682

Error Coefficients

Standard Error:	4870000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	3.244743	50.0	467356.0	3.244743	Y
2	IC 410-199110/12	4.0	14.445075	50.0	493175.0	3.611269	Y
3	IC 410-199110/13	10.0	37.520051	50.0	465058.0	3.752005	Y
4	IC 410-199110/14	20.0	75.012115	50.0	489069.0	3.750606	Y
5	ICIS 410-199110/15	50.0	188.628344	50.0	483197.0	3.772567	Y
6	IC 410-199110/16	100.0	405.077714	50.0	463752.0	4.050777	Y
7	IC 410-199110/17	300.0	1078.507708	50.0	516427.0	3.595026	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

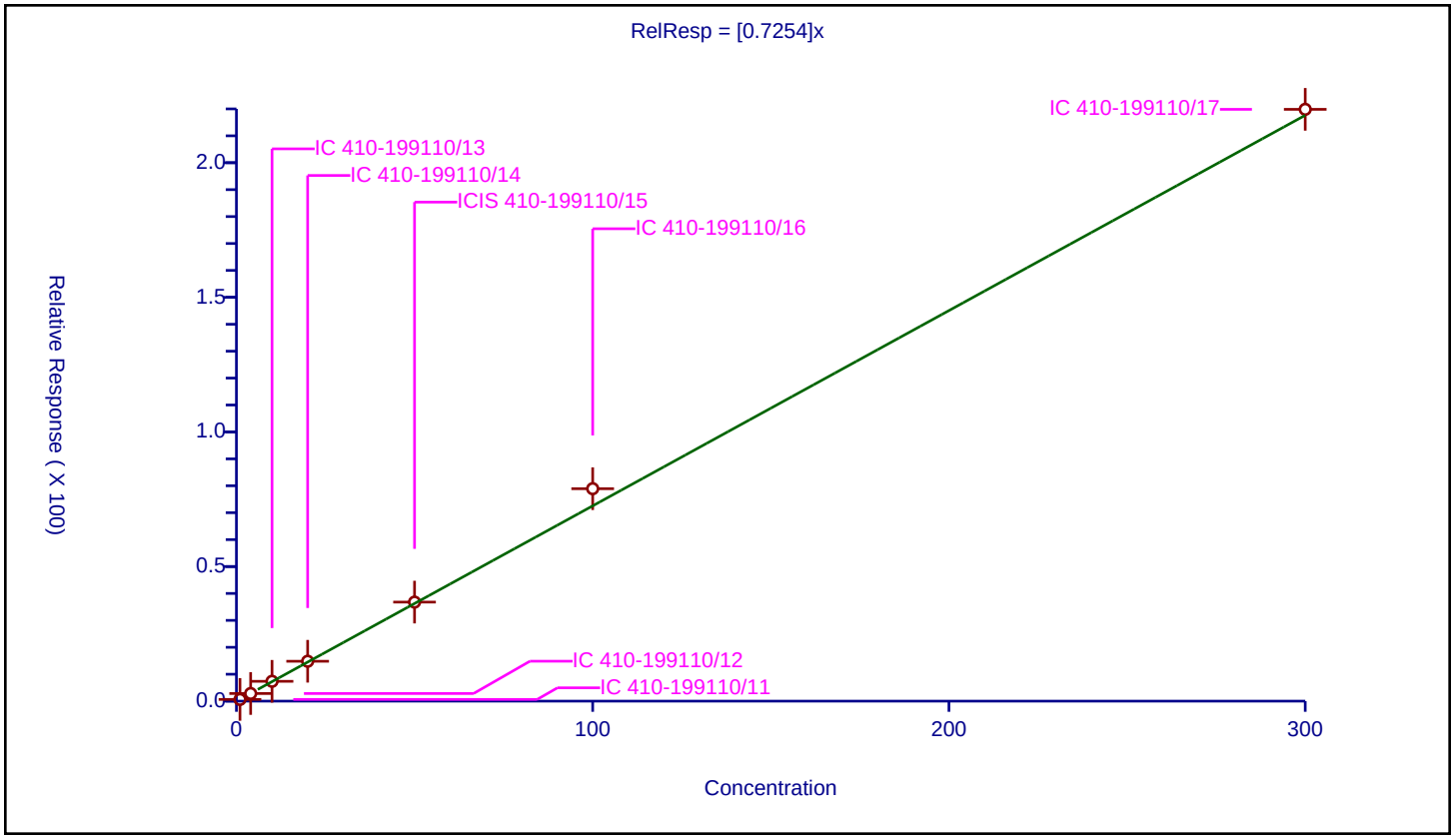
Curve Coefficients

Intercept:	0
Slope:	0.7254

Error Coefficients

Standard Error:	987000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.633778	50.0	467356.0	0.633778	Y
2	IC 410-199110/12	4.0	2.833274	50.0	493175.0	0.708319	Y
3	IC 410-199110/13	10.0	7.370371	50.0	465058.0	0.737037	Y
4	IC 410-199110/14	20.0	14.820404	50.0	489069.0	0.74102	Y
5	ICIS 410-199110/15	50.0	36.787273	50.0	483197.0	0.735745	Y
6	IC 410-199110/16	100.0	78.917935	50.0	463752.0	0.789179	Y
7	IC 410-199110/17	300.0	219.833394	50.0	516427.0	0.732778	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

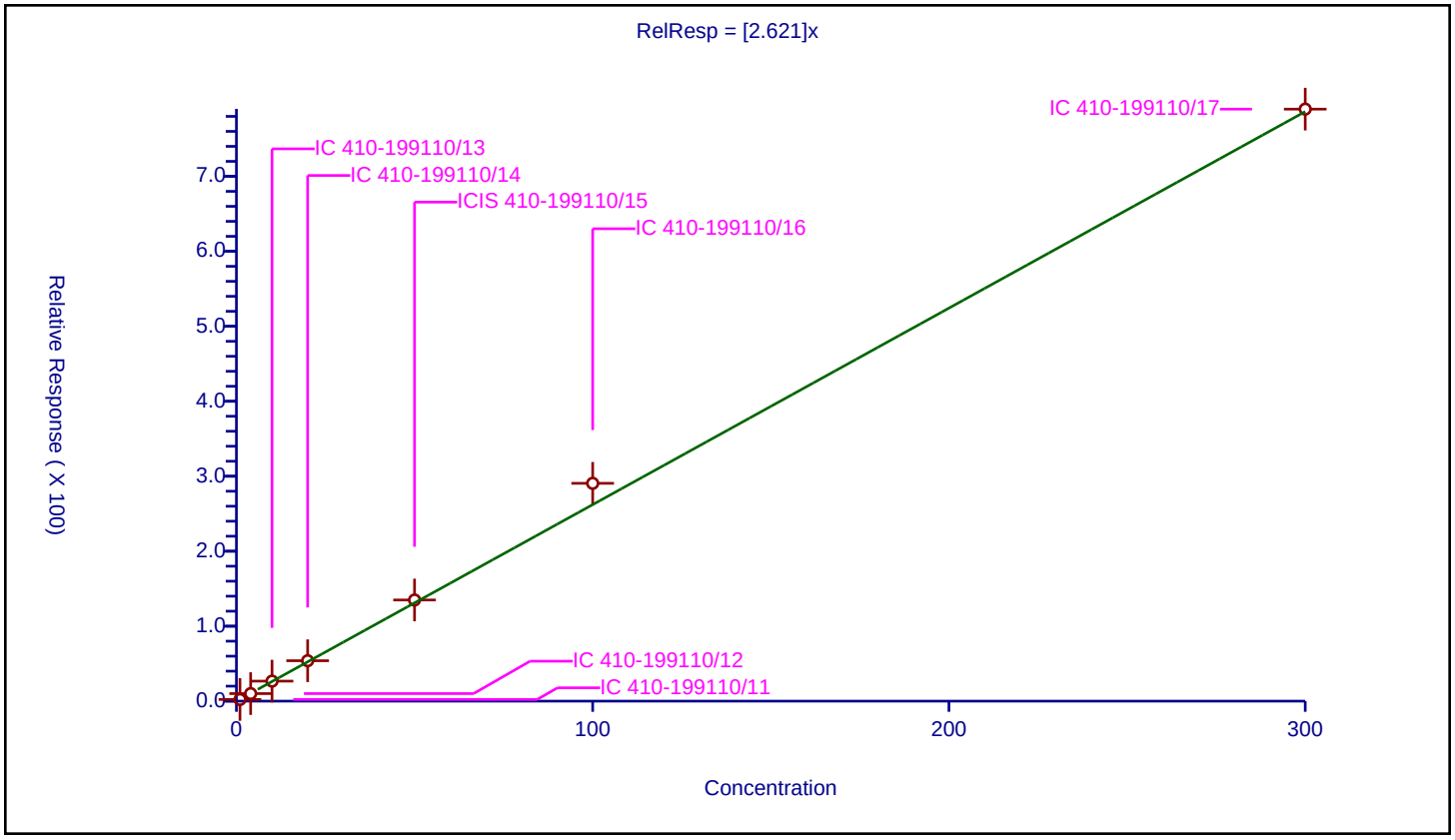
Curve Coefficients

Intercept:	0
Slope:	2.621

Error Coefficients

Standard Error:	3550000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	2.226889	50.0	467356.0	2.226889	Y
2	IC 410-199110/12	4.0	10.075937	50.0	493175.0	2.518984	Y
3	IC 410-199110/13	10.0	26.707314	50.0	465058.0	2.670731	Y
4	IC 410-199110/14	20.0	53.917954	50.0	489069.0	2.695898	Y
5	ICIS 410-199110/15	50.0	134.92085	50.0	483197.0	2.698417	Y
6	IC 410-199110/16	100.0	290.543329	50.0	463752.0	2.905433	Y
7	IC 410-199110/17	300.0	789.683731	50.0	516427.0	2.632279	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

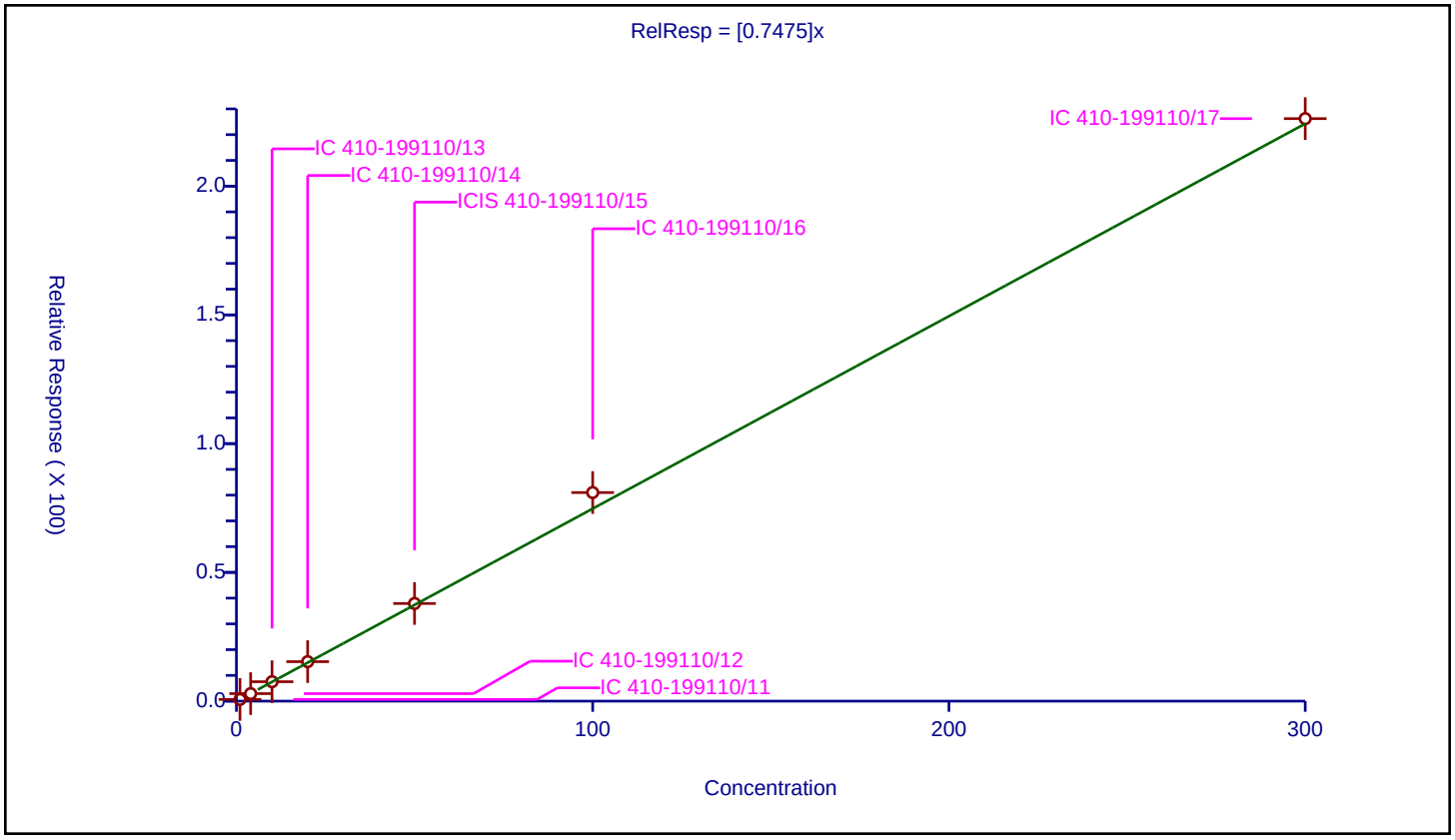
Curve Coefficients

Intercept:	0
Slope:	0.7475

Error Coefficients

Standard Error:	1020000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.65892	50.0	467356.0	0.65892	Y
2	IC 410-199110/12	4.0	2.918031	50.0	493175.0	0.729508	Y
3	IC 410-199110/13	10.0	7.549166	50.0	465058.0	0.754917	Y
4	IC 410-199110/14	20.0	15.329228	50.0	489069.0	0.766461	Y
5	ICIS 410-199110/15	50.0	37.92211	50.0	483197.0	0.758442	Y
6	IC 410-199110/16	100.0	81.006982	50.0	463752.0	0.81007	Y
7	IC 410-199110/17	300.0	226.21658	50.0	516427.0	0.754055	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

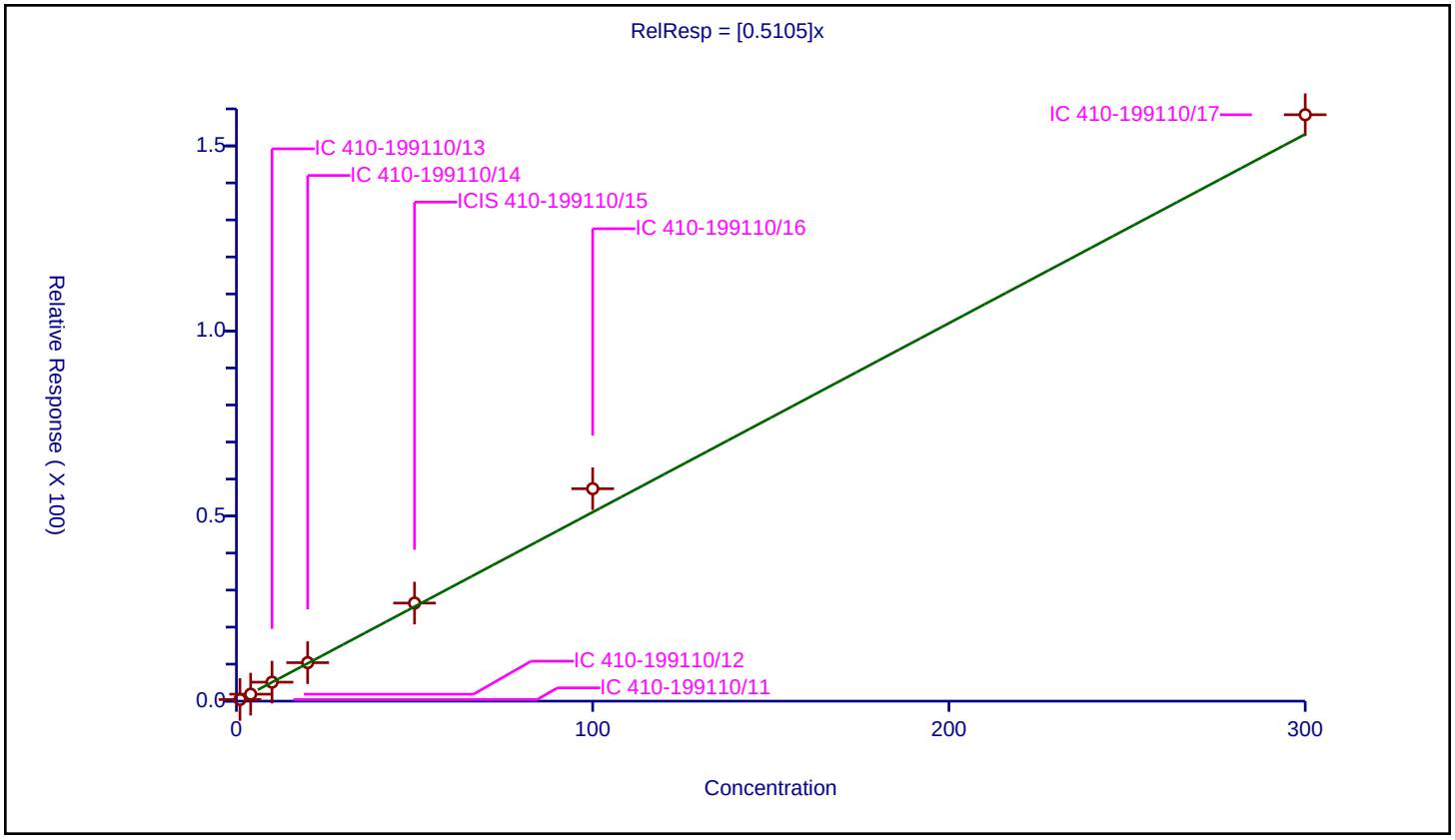
Curve Coefficients

Intercept:	0
Slope:	0.5105

Error Coefficients

Standard Error:	712000
Relative Standard Error:	8.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.438531	50.0	467356.0	0.438531	Y
2	IC 410-199110/12	4.0	1.88422	50.0	493175.0	0.471055	Y
3	IC 410-199110/13	10.0	5.12549	50.0	465058.0	0.512549	Y
4	IC 410-199110/14	20.0	10.395057	50.0	489069.0	0.519753	Y
5	ICIS 410-199110/15	50.0	26.496439	50.0	483197.0	0.529929	Y
6	IC 410-199110/16	100.0	57.385844	50.0	463752.0	0.573858	Y
7	IC 410-199110/17	300.0	158.415323	50.0	516427.0	0.528051	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

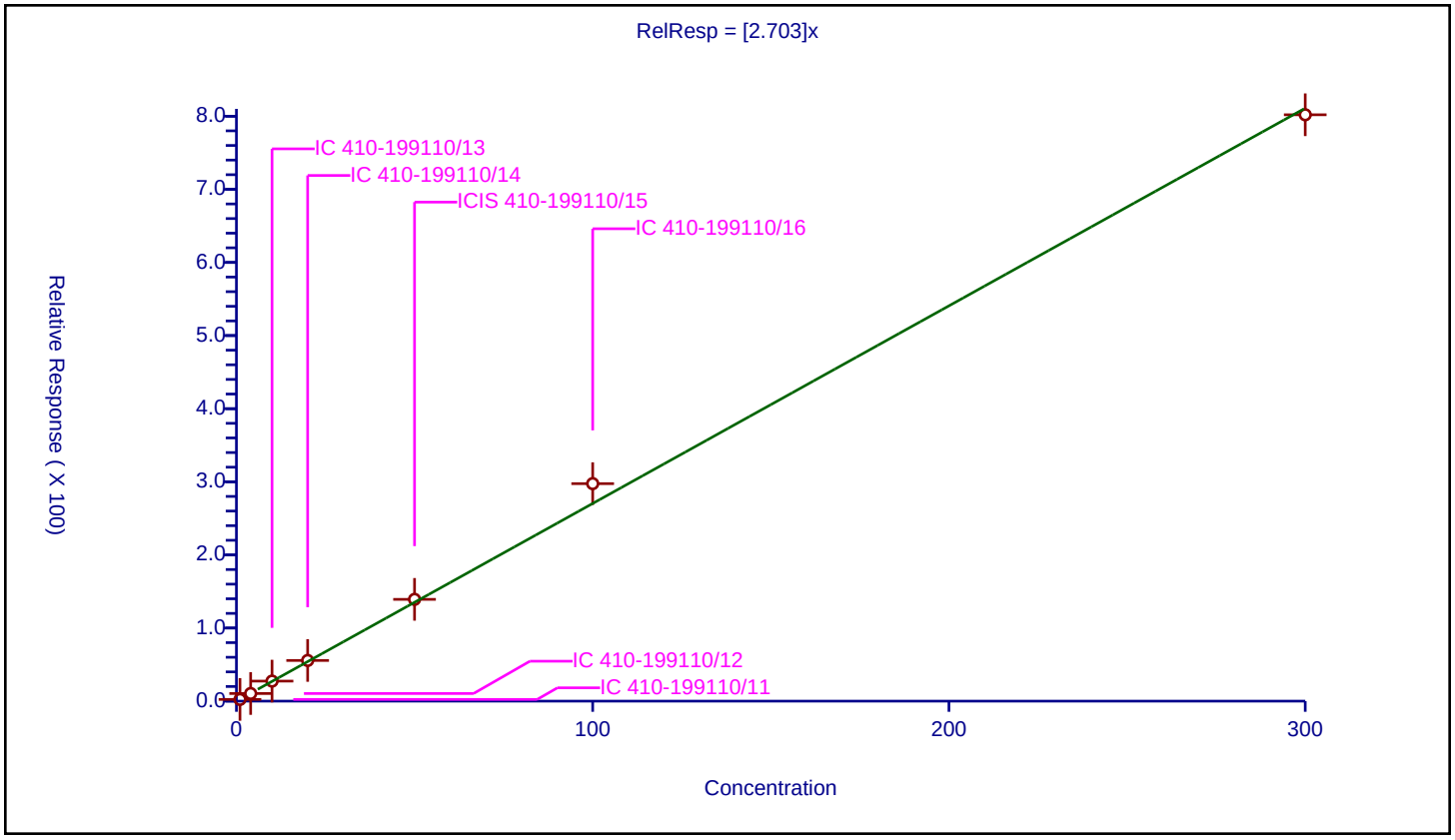
Curve Coefficients

Intercept:	0
Slope:	2.703

Error Coefficients

Standard Error:	3610000
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	2.35602	50.0	467356.0	2.35602	Y
2	IC 410-199110/12	4.0	10.45055	50.0	493175.0	2.612638	Y
3	IC 410-199110/13	10.0	27.400023	50.0	465058.0	2.740002	Y
4	IC 410-199110/14	20.0	55.633356	50.0	489069.0	2.781668	Y
5	ICIS 410-199110/15	50.0	139.210301	50.0	483197.0	2.784206	Y
6	IC 410-199110/16	100.0	297.489283	50.0	463752.0	2.974893	Y
7	IC 410-199110/17	300.0	801.967848	50.0	516427.0	2.673226	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

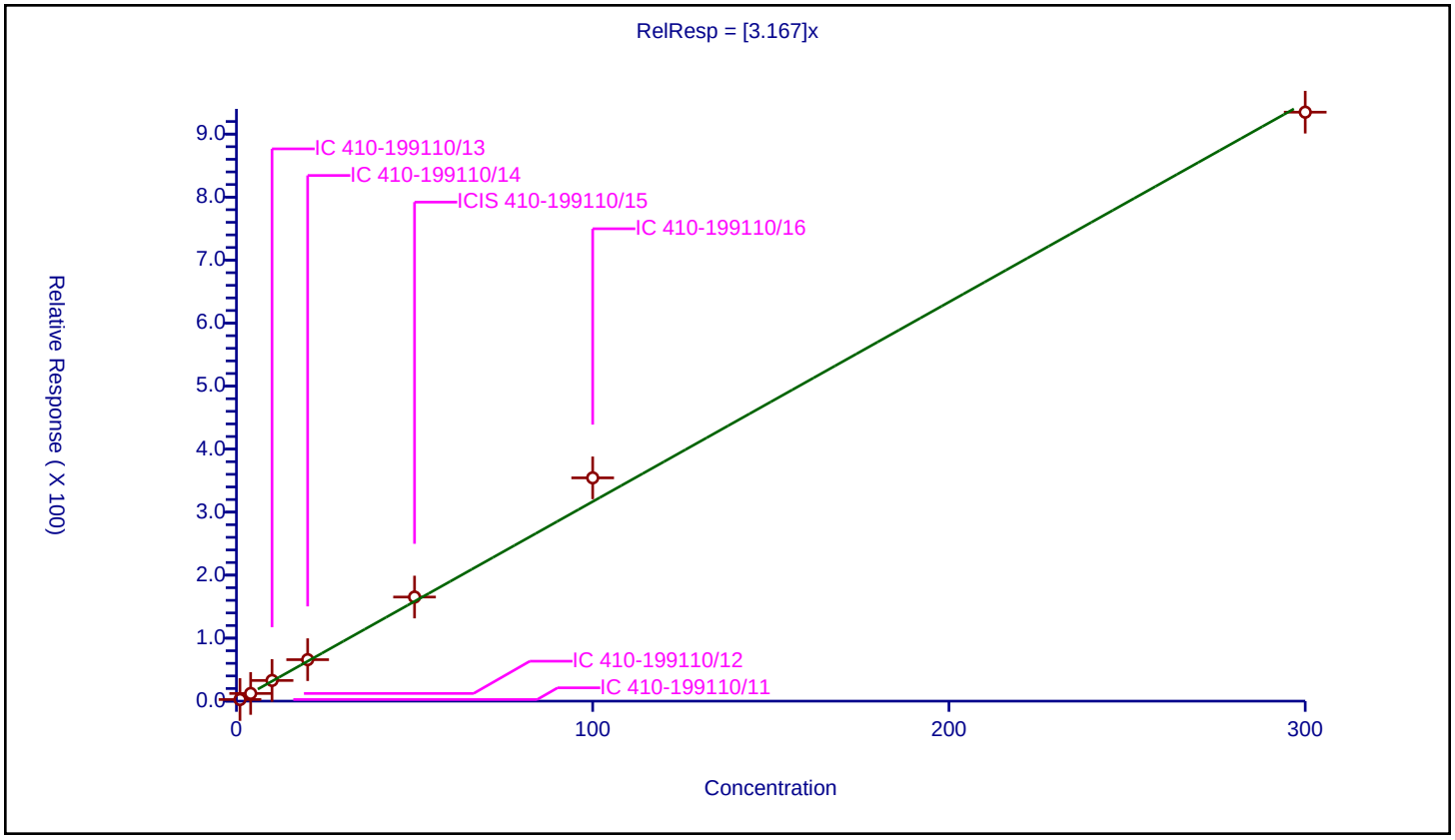
Curve Coefficients

Intercept:	0
Slope:	3.167

Error Coefficients

Standard Error:	4220000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	2.576302	50.0	467356.0	2.576302	Y
2	IC 410-199110/12	4.0	12.210777	50.0	493175.0	3.052694	Y
3	IC 410-199110/13	10.0	32.820207	50.0	465058.0	3.282021	Y
4	IC 410-199110/14	20.0	65.847355	50.0	489069.0	3.292368	Y
5	ICIS 410-199110/15	50.0	165.214498	50.0	483197.0	3.30429	Y
6	IC 410-199110/16	100.0	354.409792	50.0	463752.0	3.544098	Y
7	IC 410-199110/17	300.0	934.783135	50.0	516427.0	3.115944	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

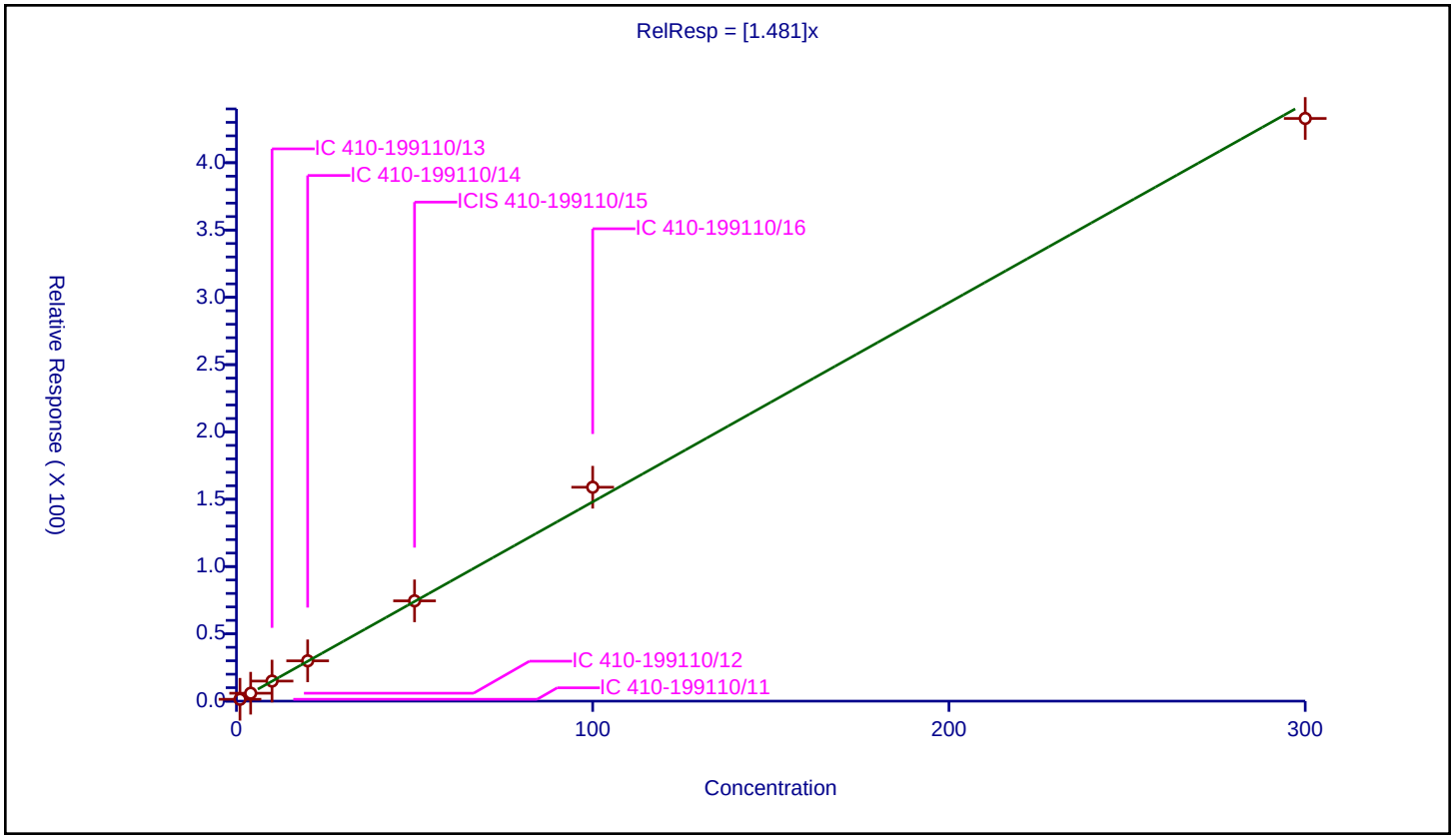
Curve Coefficients

Intercept:	0
Slope:	1.481

Error Coefficients

Standard Error:	1950000
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 410-199110/11	1.0	1.379355	50.0	467356.0	1.379355	Y
2	IC 410-199110/12	4.0	5.893952	50.0	493175.0	1.473488	Y
3	IC 410-199110/13	10.0	14.913624	50.0	465058.0	1.491362	Y
4	IC 410-199110/14	20.0	29.939334	50.0	489069.0	1.496967	Y
5	ICIS 410-199110/15	50.0	74.514742	50.0	483197.0	1.490295	Y
6	IC 410-199110/16	100.0	158.912522	50.0	463752.0	1.589125	Y
7	IC 410-199110/17	300.0	432.901746	50.0	516427.0	1.443006	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

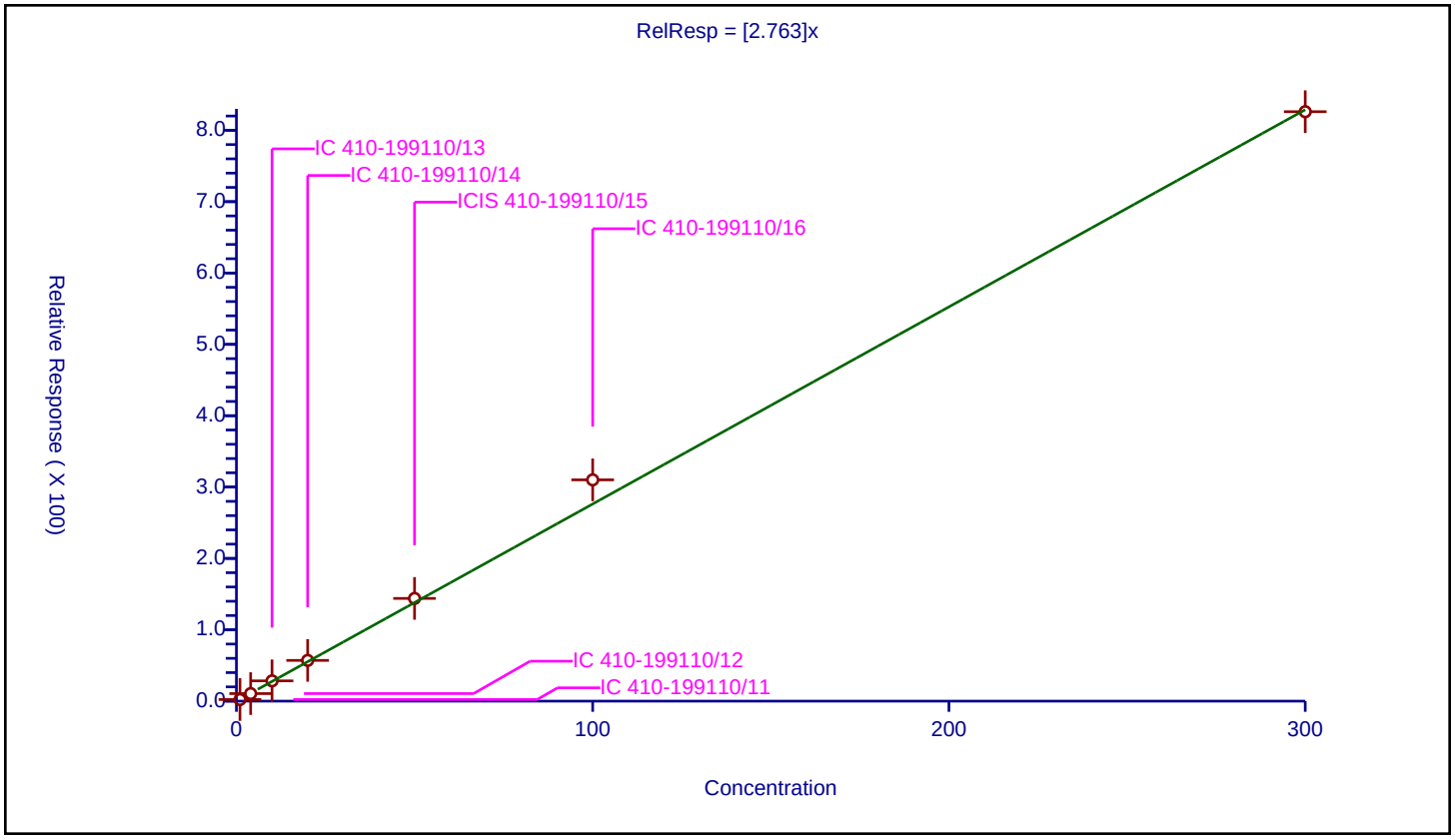
Curve Coefficients

Intercept:	0
Slope:	2.763

Error Coefficients

Standard Error:	3730000
Relative Standard Error:	9.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	2.265725	50.0	467356.0	2.265725	Y
2	IC 410-199110/12	4.0	10.57657	50.0	493175.0	2.644143	Y
3	IC 410-199110/13	10.0	28.41538	50.0	465058.0	2.841538	Y
4	IC 410-199110/14	20.0	57.098487	50.0	489069.0	2.854924	Y
5	ICIS 410-199110/15	50.0	143.933116	50.0	483197.0	2.878662	Y
6	IC 410-199110/16	100.0	310.136884	50.0	463752.0	3.101369	Y
7	IC 410-199110/17	300.0	826.087327	50.0	516427.0	2.753624	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

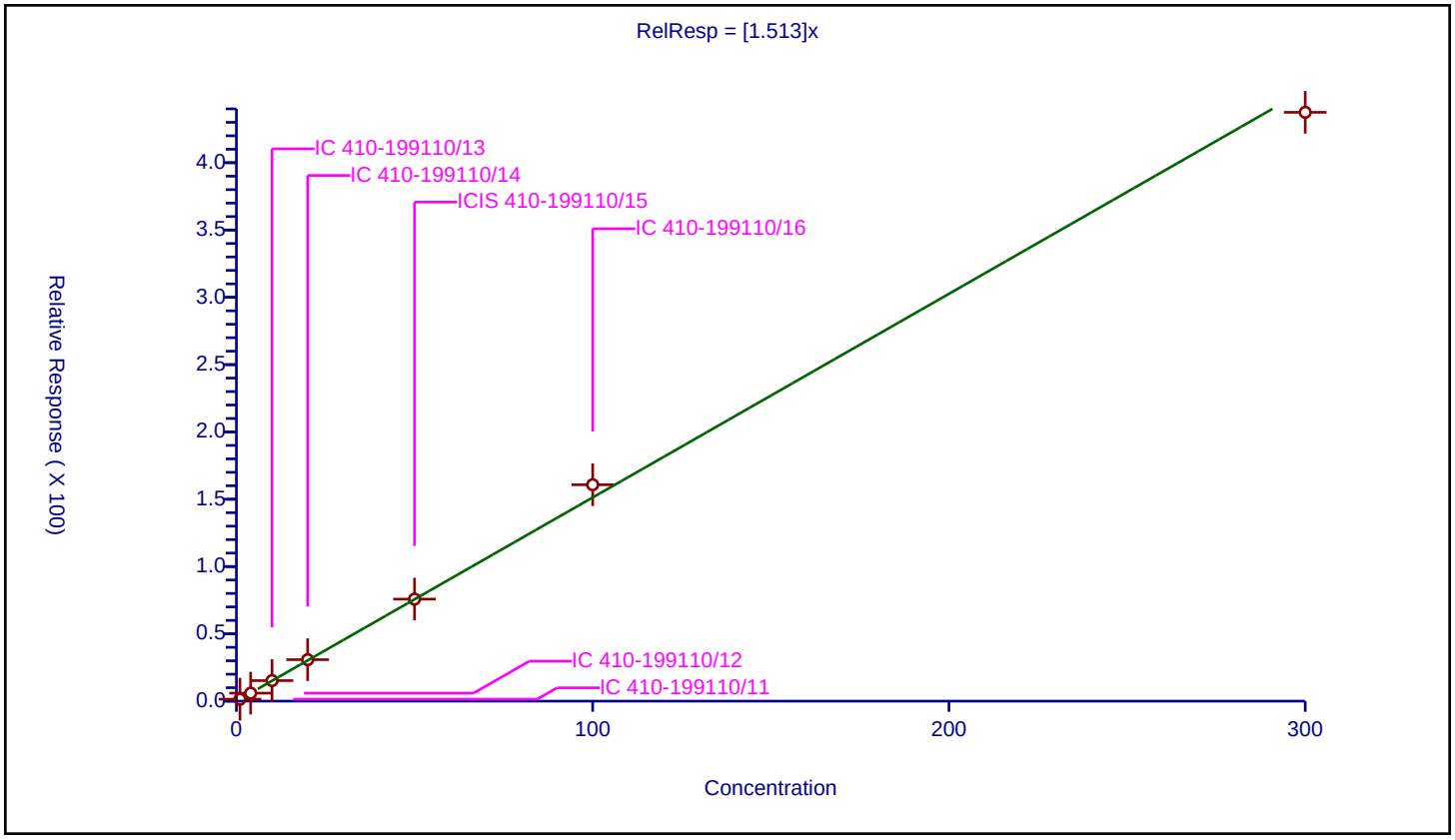
Curve Coefficients

Intercept:	0
Slope:	1.513

Error Coefficients

Standard Error:	1970000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	1.457775	50.0	467356.0	1.457775	Y
2	IC 410-199110/12	4.0	5.9414	50.0	493175.0	1.48535	Y
3	IC 410-199110/13	10.0	15.256484	50.0	465058.0	1.525648	Y
4	IC 410-199110/14	20.0	30.813852	50.0	489069.0	1.540693	Y
5	ICIS 410-199110/15	50.0	75.789481	50.0	483197.0	1.51579	Y
6	IC 410-199110/16	100.0	160.786153	50.0	463752.0	1.607862	Y
7	IC 410-199110/17	300.0	437.453696	50.0	516427.0	1.458179	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

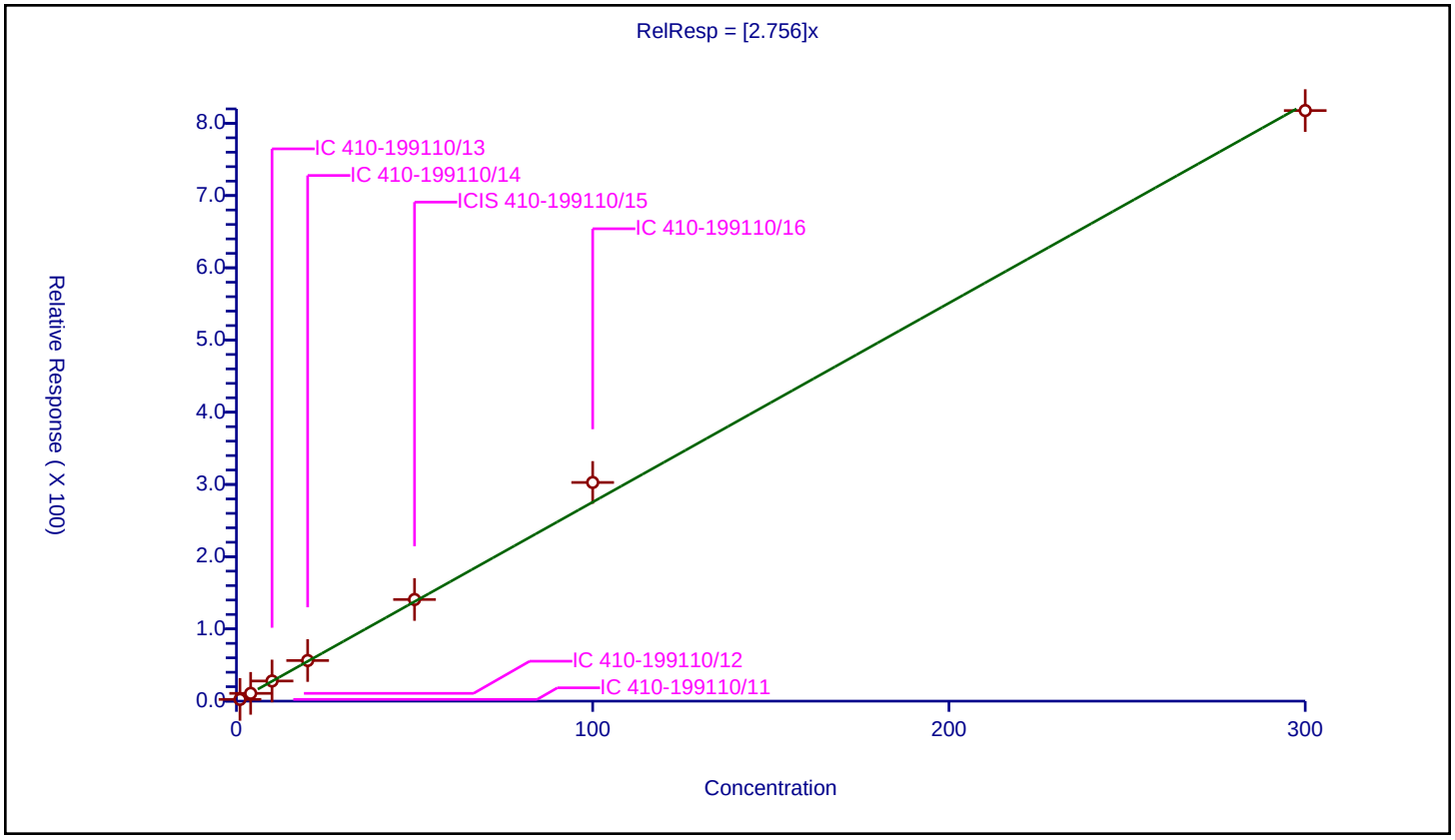
Curve Coefficients

Intercept:	0
Slope:	2.756

Error Coefficients

Standard Error:	3680000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	2.424704	50.0	467356.0	2.424704	Y
2	IC 410-199110/12	4.0	10.777817	50.0	493175.0	2.694454	Y
3	IC 410-199110/13	10.0	27.906627	50.0	465058.0	2.790663	Y
4	IC 410-199110/14	20.0	56.243291	50.0	489069.0	2.812165	Y
5	ICIS 410-199110/15	50.0	140.736387	50.0	483197.0	2.814728	Y
6	IC 410-199110/16	100.0	302.78263	50.0	463752.0	3.027826	Y
7	IC 410-199110/17	300.0	817.681105	50.0	516427.0	2.725604	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

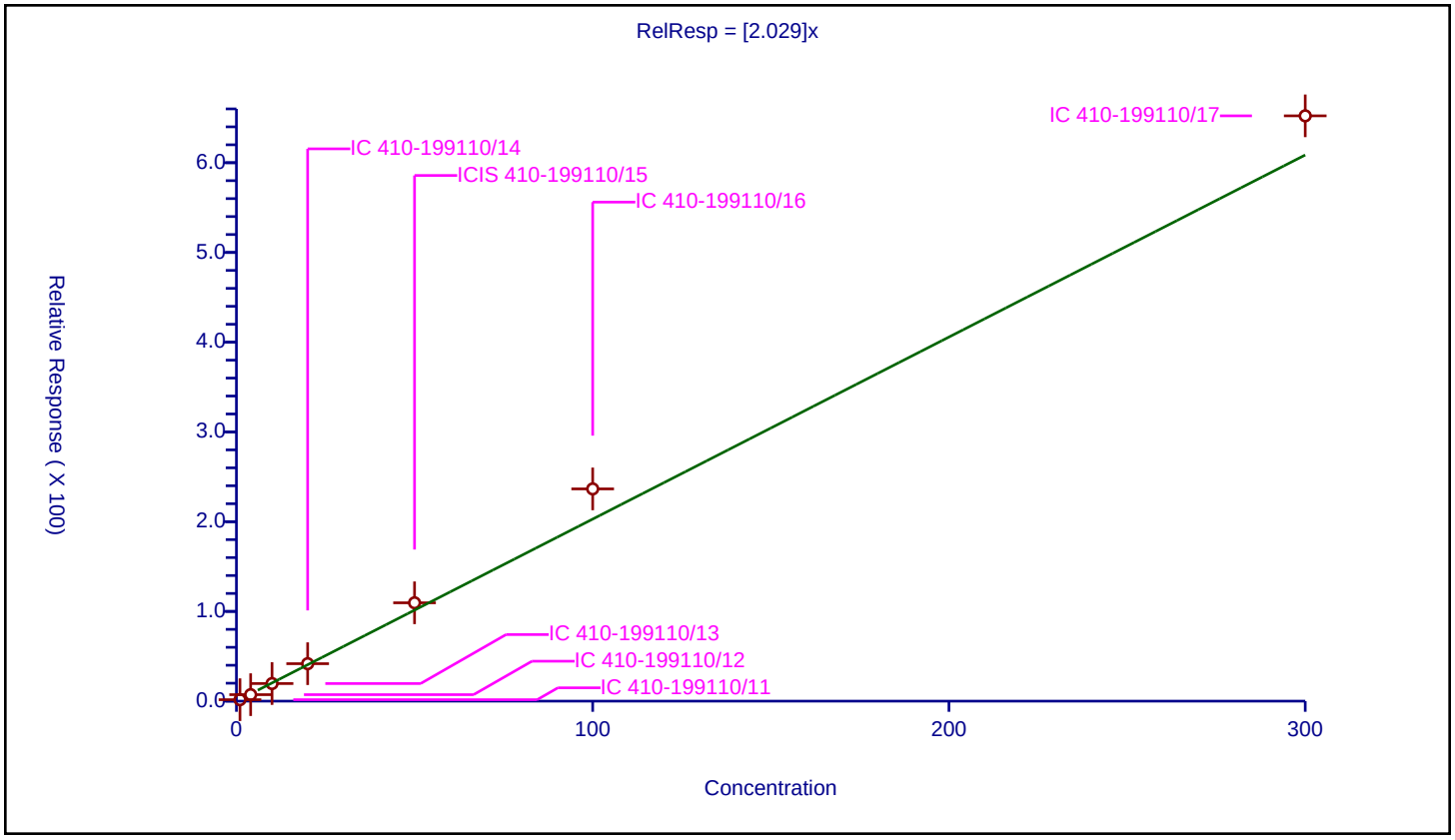
Curve Coefficients

Intercept:	0
Slope:	2.029

Error Coefficients

Standard Error:	2930000
Relative Standard Error:	12.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	1.618894	50.0	467356.0	1.618894	Y
2	IC 410-199110/12	4.0	7.214275	50.0	493175.0	1.803569	Y
3	IC 410-199110/13	10.0	19.597663	50.0	465058.0	1.959766	Y
4	IC 410-199110/14	20.0	41.758116	50.0	489069.0	2.087906	Y
5	ICIS 410-199110/15	50.0	109.586566	50.0	483197.0	2.191731	Y
6	IC 410-199110/16	100.0	236.519088	50.0	463752.0	2.365191	Y
7	IC 410-199110/17	300.0	652.251625	50.0	516427.0	2.174172	Y



Calibration / 1,3-Diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

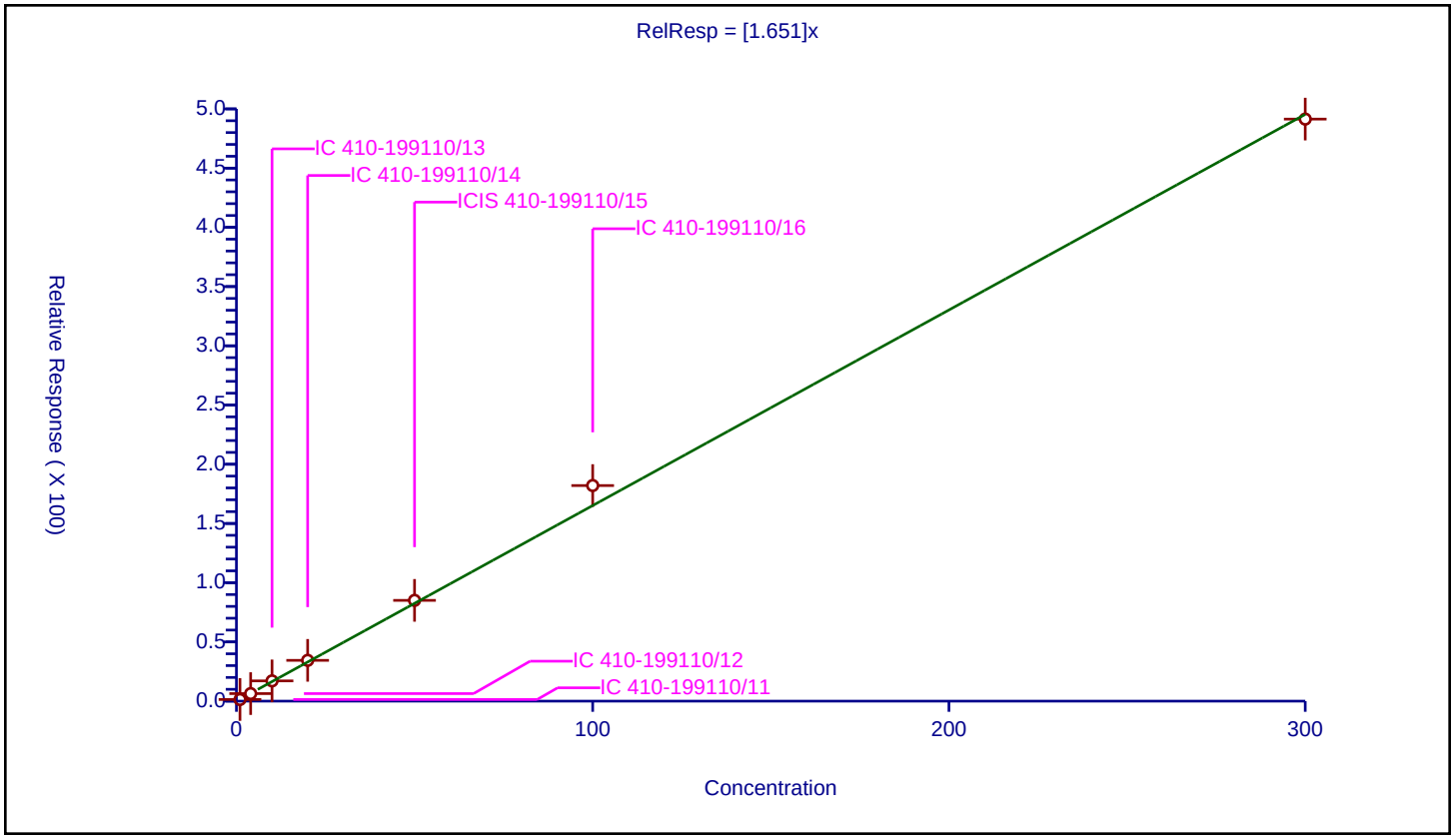
Curve Coefficients

Intercept:	0
Slope:	1.651

Error Coefficients

Standard Error:	2210000
Relative Standard Error:	8.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	1.375718	50.0	467356.0	1.375718	Y
2	IC 410-199110/12	4.0	6.363867	50.0	493175.0	1.590967	Y
3	IC 410-199110/13	10.0	17.103028	50.0	465058.0	1.710303	Y
4	IC 410-199110/14	20.0	34.440028	50.0	489069.0	1.722001	Y
5	ICIS 410-199110/15	50.0	85.070892	50.0	483197.0	1.701418	Y
6	IC 410-199110/16	100.0	182.011398	50.0	463752.0	1.820114	Y
7	IC 410-199110/17	300.0	491.382906	50.0	516427.0	1.637943	Y



Calibration / p-Diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

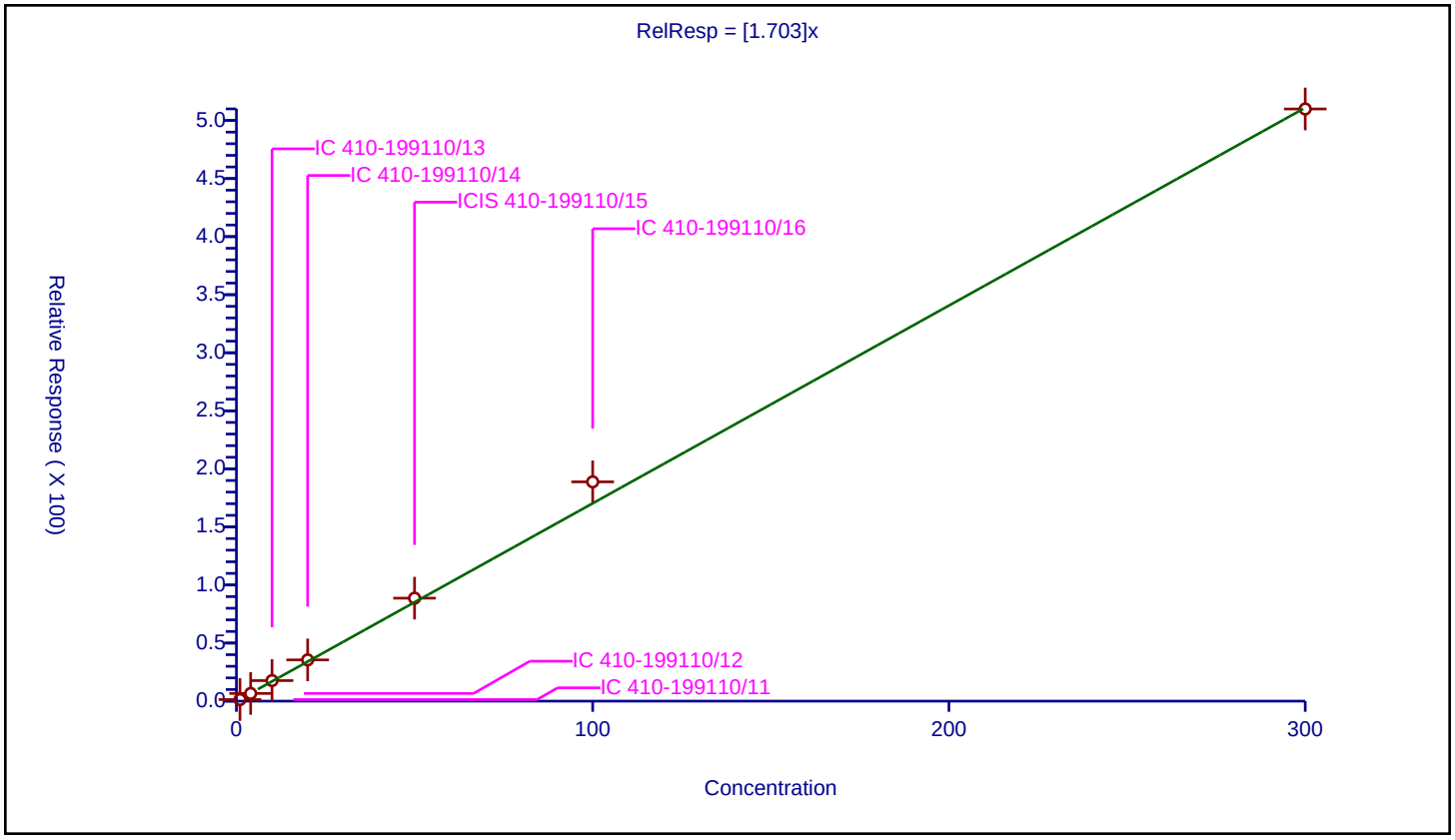
Curve Coefficients

Intercept:	0
Slope:	1.703

Error Coefficients

Standard Error:	2300000
Relative Standard Error:	9.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	1.365233	50.0	467356.0	1.365233	Y
2	IC 410-199110/12	4.0	6.606073	50.0	493175.0	1.651518	Y
3	IC 410-199110/13	10.0	17.683923	50.0	465058.0	1.768392	Y
4	IC 410-199110/14	20.0	35.517483	50.0	489069.0	1.775874	Y
5	ICIS 410-199110/15	50.0	88.682877	50.0	483197.0	1.773658	Y
6	IC 410-199110/16	100.0	188.830452	50.0	463752.0	1.888305	Y
7	IC 410-199110/17	300.0	509.922022	50.0	516427.0	1.69974	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

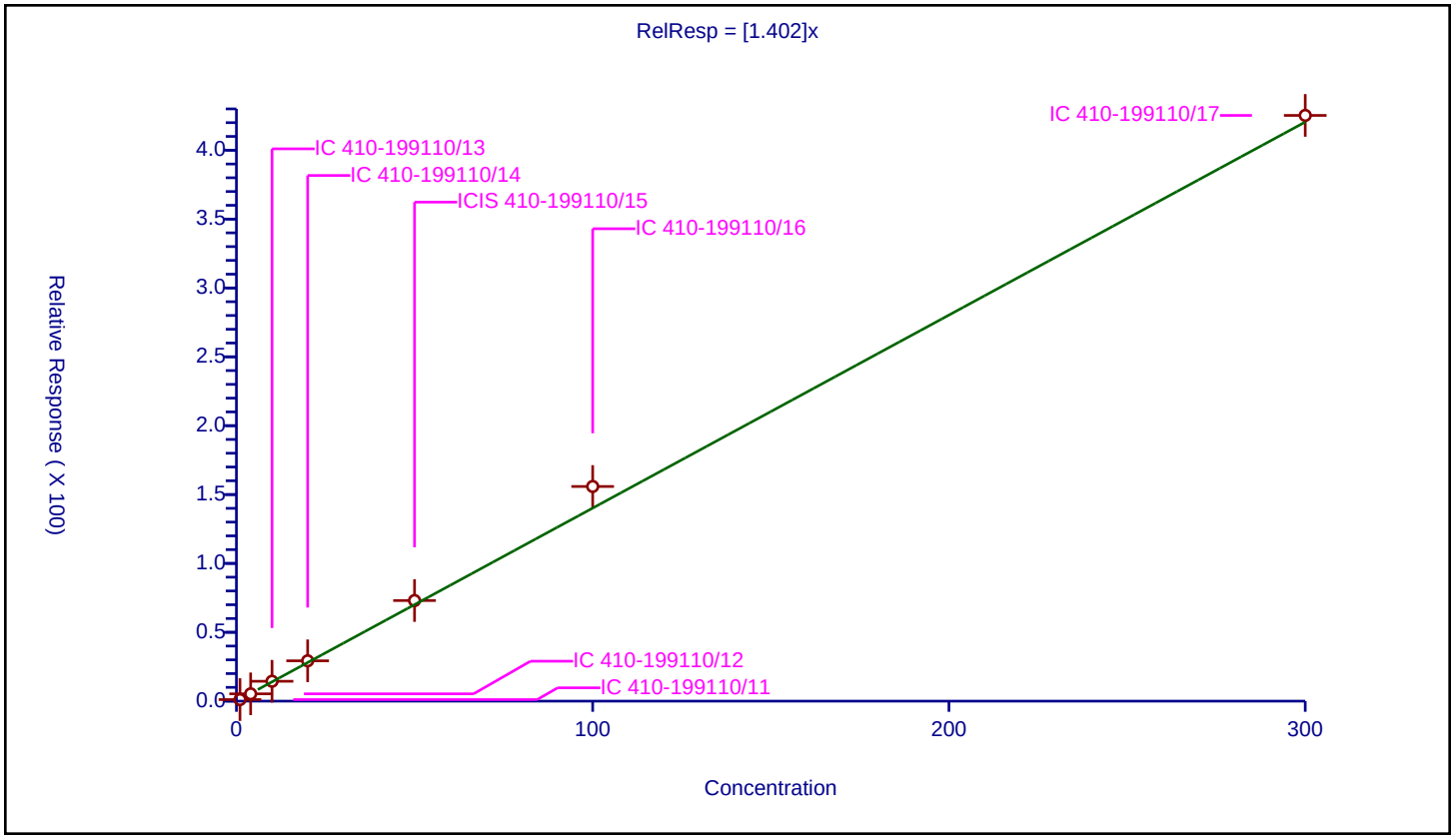
Curve Coefficients

Intercept:	0
Slope:	1.402

Error Coefficients

Standard Error:	1910000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	1.138212	50.0	467356.0	1.138212	Y
2	IC 410-199110/12	4.0	5.30988	50.0	493175.0	1.32747	Y
3	IC 410-199110/13	10.0	14.44207	50.0	465058.0	1.444207	Y
4	IC 410-199110/14	20.0	29.284007	50.0	489069.0	1.4642	Y
5	ICIS 410-199110/15	50.0	73.041637	50.0	483197.0	1.460833	Y
6	IC 410-199110/16	100.0	155.850649	50.0	463752.0	1.558506	Y
7	IC 410-199110/17	300.0	425.26388	50.0	516427.0	1.417546	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

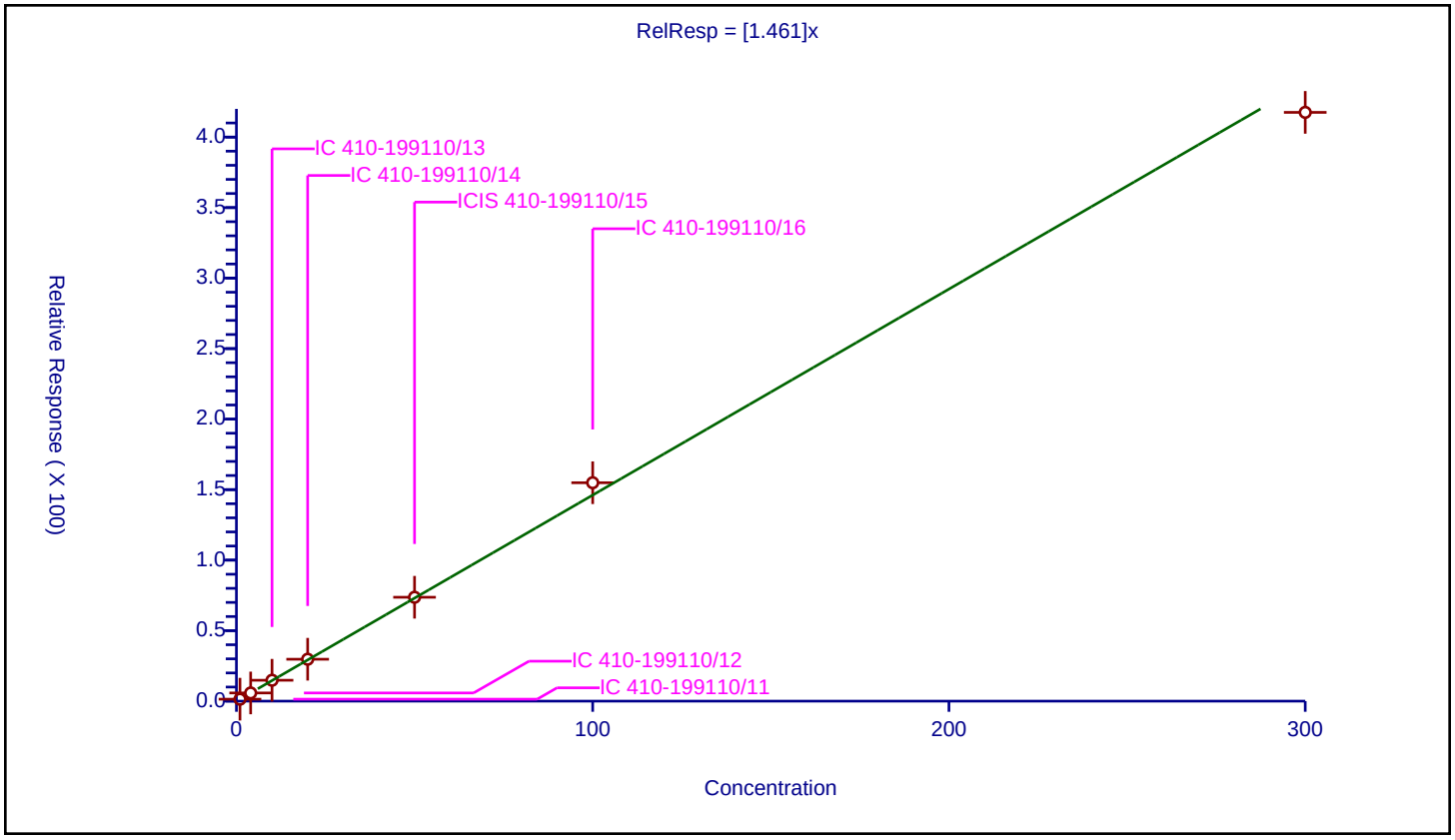
Curve Coefficients

Intercept:	0
Slope:	1.461

Error Coefficients

Standard Error:	1880000
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 410-199110/11	1.0	1.394333	50.0	467356.0	1.394333	Y
2	IC 410-199110/12	4.0	5.807066	50.0	493175.0	1.451767	Y
3	IC 410-199110/13	10.0	14.816001	50.0	465058.0	1.4816	Y
4	IC 410-199110/14	20.0	29.719835	50.0	489069.0	1.485992	Y
5	ICIS 410-199110/15	50.0	73.66602	50.0	483197.0	1.47332	Y
6	IC 410-199110/16	100.0	154.883968	50.0	463752.0	1.54884	Y
7	IC 410-199110/17	300.0	417.52784	50.0	516427.0	1.391759	Y



Calibration / o-diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

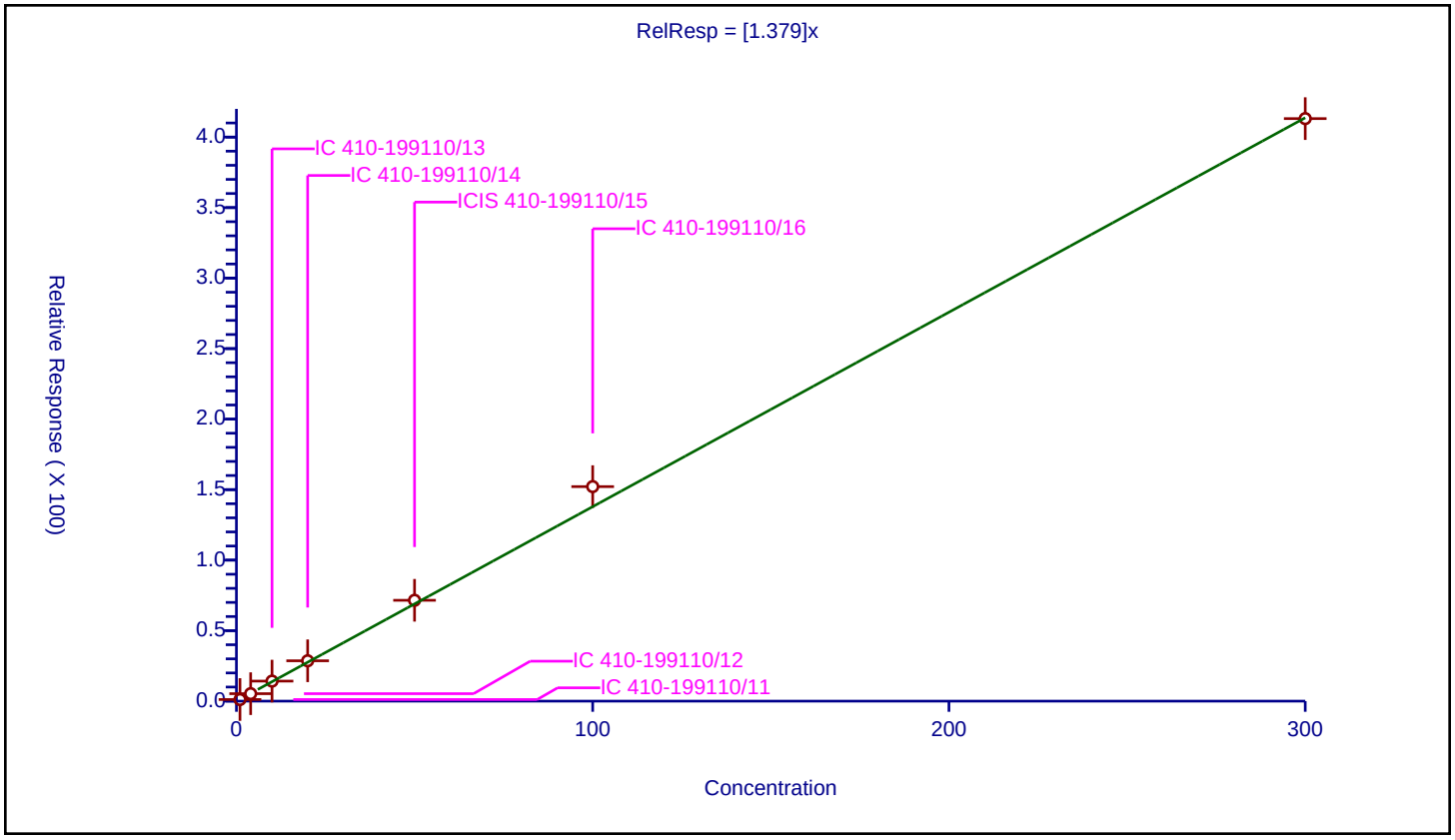
Curve Coefficients

Intercept:	0
Slope:	1.379

Error Coefficients

Standard Error:	1860000
Relative Standard Error:	8.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	1.14538	50.0	467356.0	1.14538	Y
2	IC 410-199110/12	4.0	5.306838	50.0	493175.0	1.32671	Y
3	IC 410-199110/13	10.0	14.209625	50.0	465058.0	1.420963	Y
4	IC 410-199110/14	20.0	28.62868	50.0	489069.0	1.431434	Y
5	ICIS 410-199110/15	50.0	71.521864	50.0	483197.0	1.430437	Y
6	IC 410-199110/16	100.0	152.134007	50.0	463752.0	1.52134	Y
7	IC 410-199110/17	300.0	413.112115	50.0	516427.0	1.37704	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

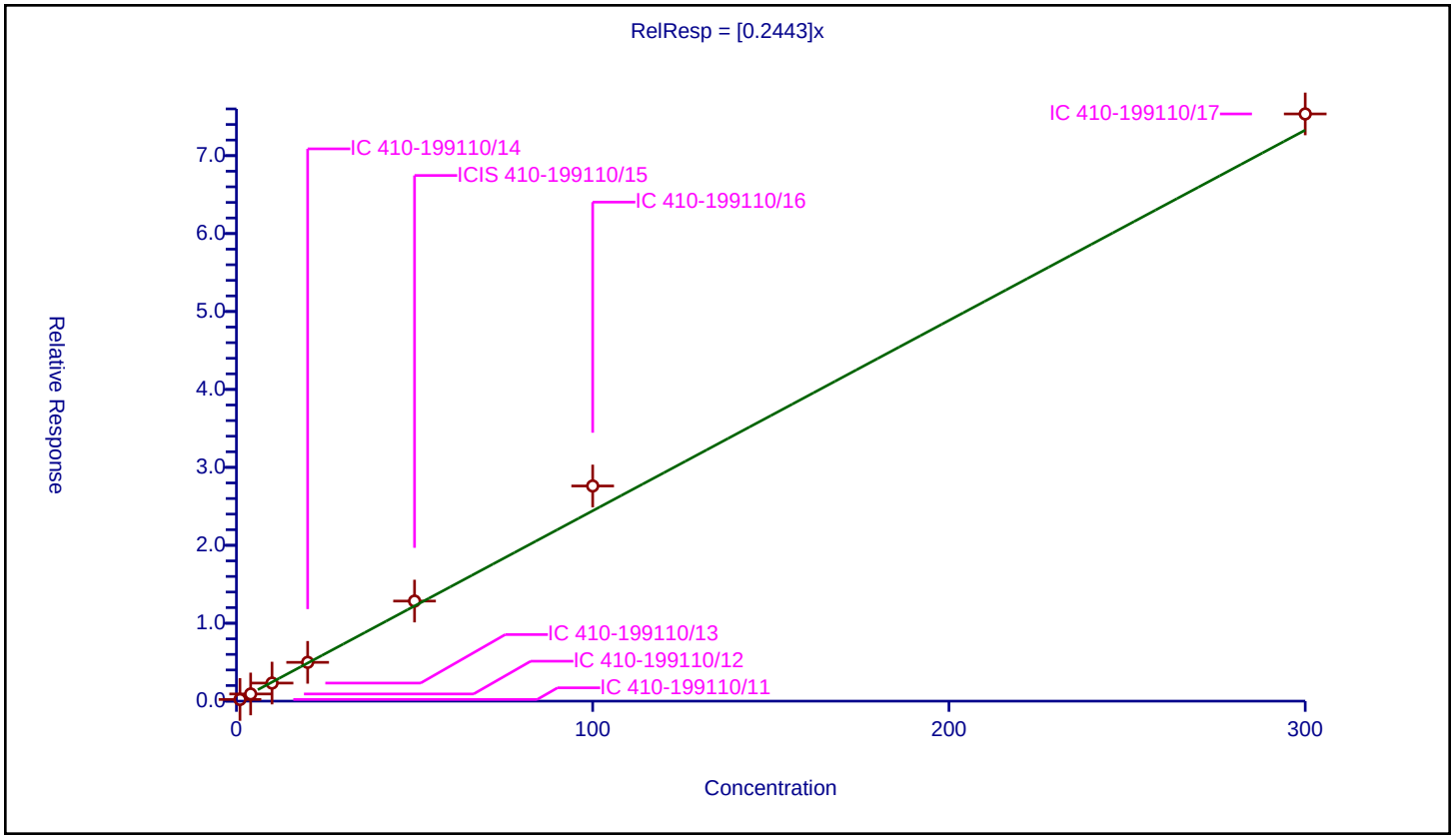
Curve Coefficients

Intercept:	0
Slope:	0.2443

Error Coefficients

Standard Error:	339000
Relative Standard Error:	8.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.214291	50.0	467356.0	0.214291	Y
2	IC 410-199110/12	4.0	0.922593	50.0	493175.0	0.230648	Y
3	IC 410-199110/13	10.0	2.318636	50.0	465058.0	0.231864	Y
4	IC 410-199110/14	20.0	4.977212	50.0	489069.0	0.248861	Y
5	ICIS 410-199110/15	50.0	12.842071	50.0	483197.0	0.256841	Y
6	IC 410-199110/16	100.0	27.611956	50.0	463752.0	0.27612	Y
7	IC 410-199110/17	300.0	75.354697	50.0	516427.0	0.251182	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

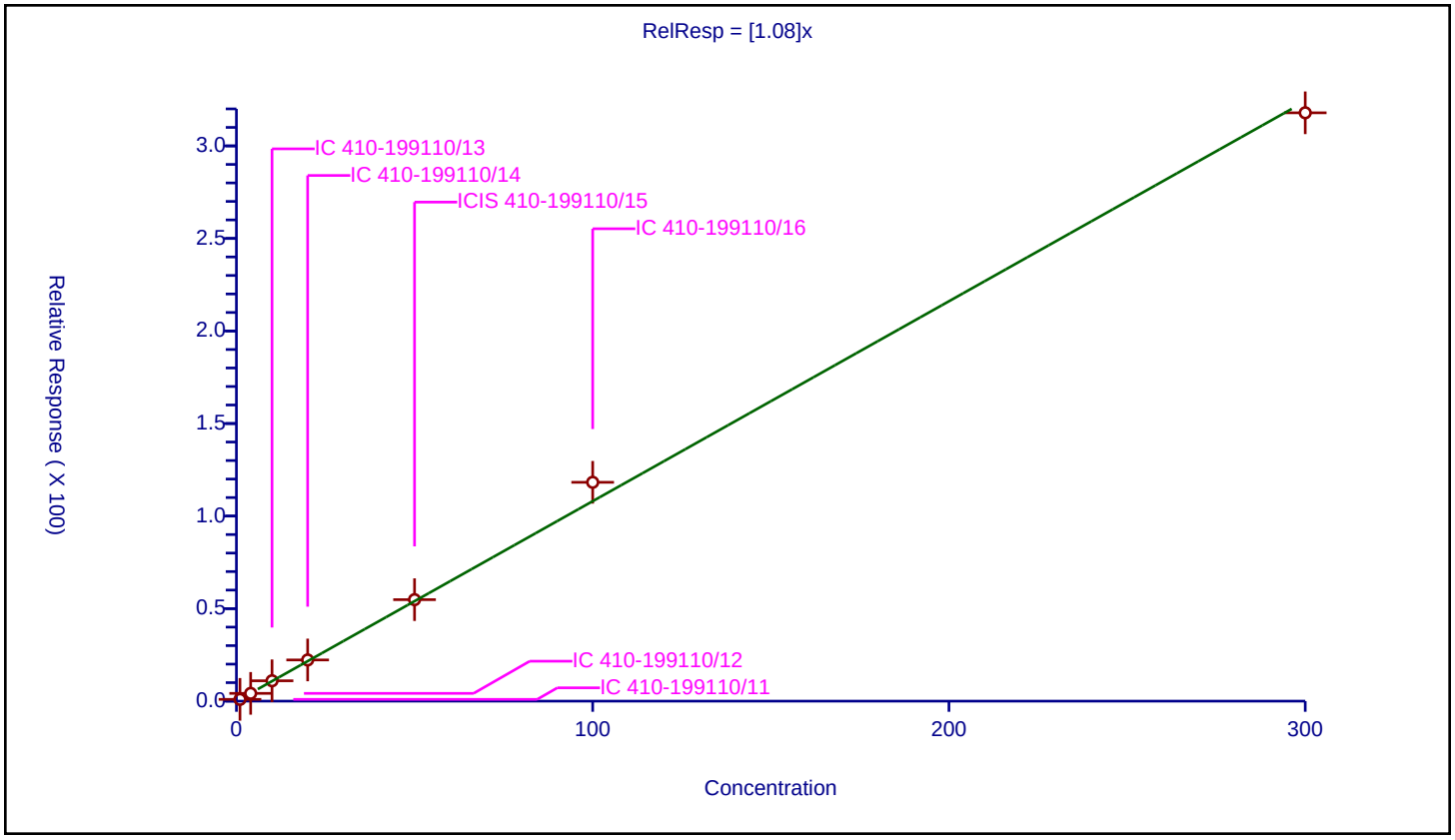
Curve Coefficients

Intercept:	0
Slope:	1.08

Error Coefficients

Standard Error:	1430000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.961687	50.0	467356.0	0.961687	Y
2	IC 410-199110/12	4.0	4.194353	50.0	493175.0	1.048588	Y
3	IC 410-199110/13	10.0	11.001423	50.0	465058.0	1.100142	Y
4	IC 410-199110/14	20.0	22.261276	50.0	489069.0	1.113064	Y
5	ICIS 410-199110/15	50.0	54.829604	50.0	483197.0	1.096592	Y
6	IC 410-199110/16	100.0	118.240999	50.0	463752.0	1.18241	Y
7	IC 410-199110/17	300.0	317.886749	50.0	516427.0	1.059622	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

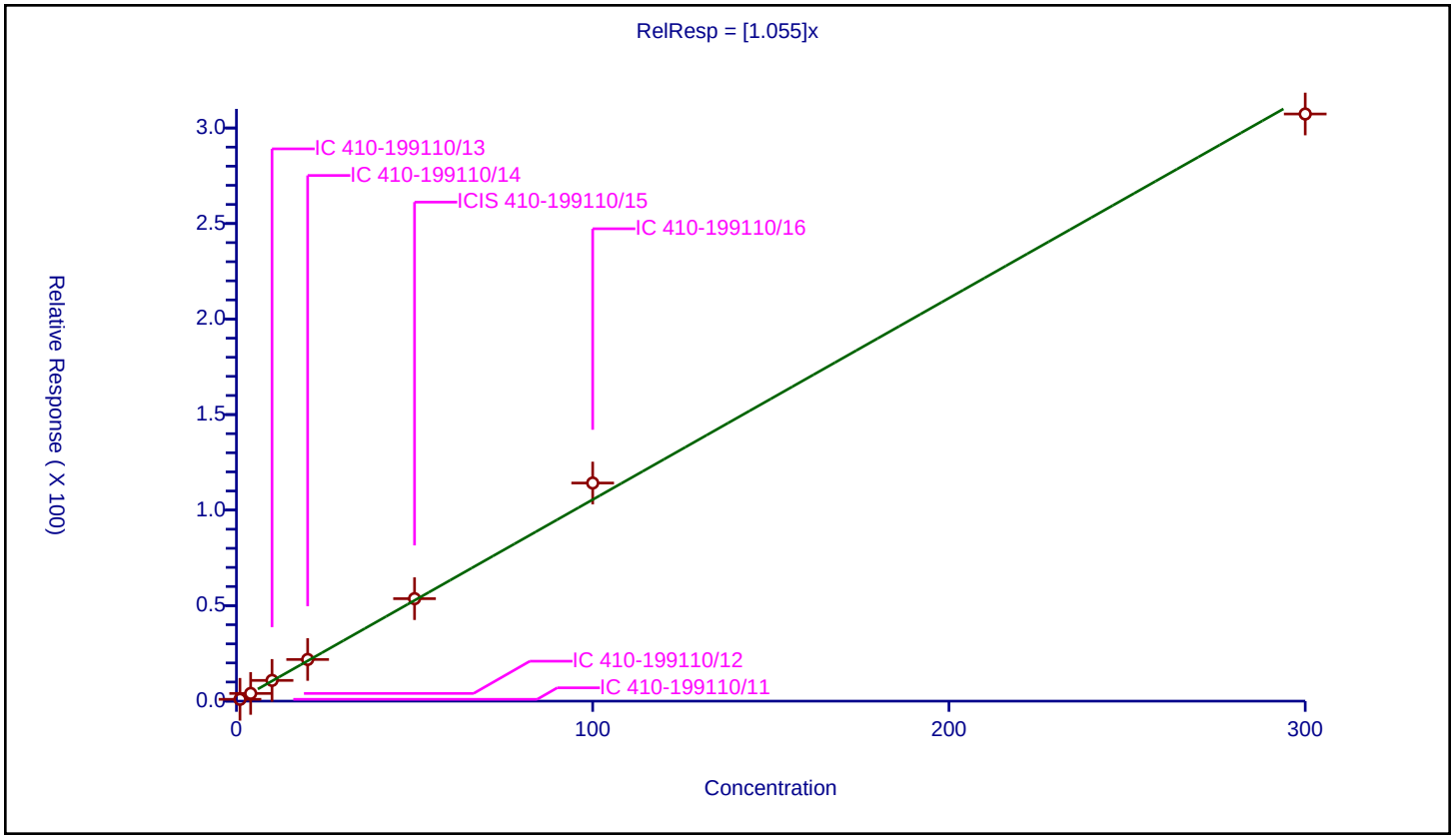
Curve Coefficients

Intercept:	0
Slope:	1.055

Error Coefficients

Standard Error:	1390000
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 410-199110/11	1.0	0.96158	50.0	467356.0	0.96158	Y
2	IC 410-199110/12	4.0	4.029401	50.0	493175.0	1.00735	Y
3	IC 410-199110/13	10.0	10.85499	50.0	465058.0	1.085499	Y
4	IC 410-199110/14	20.0	21.804796	50.0	489069.0	1.09024	Y
5	ICIS 410-199110/15	50.0	53.635577	50.0	483197.0	1.072712	Y
6	IC 410-199110/16	100.0	114.17223	50.0	463752.0	1.141722	Y
7	IC 410-199110/17	300.0	307.335596	50.0	516427.0	1.024452	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

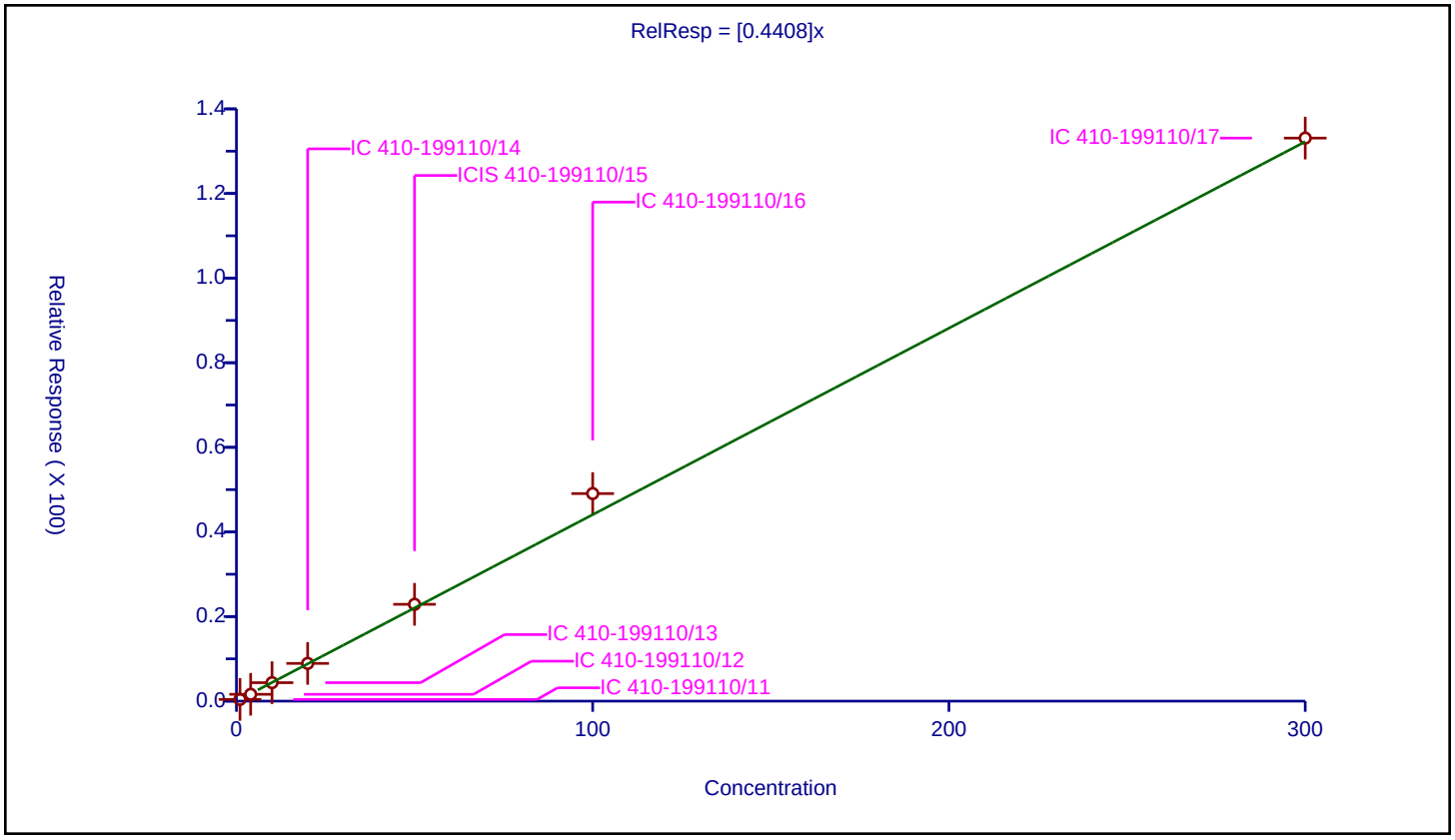
Curve Coefficients

Intercept:	0
Slope:	0.4408

Error Coefficients

Standard Error:	599000
Relative Standard Error:	6.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	0.406328	50.0	467356.0	0.406328	Y
2	IC 410-199110/12	4.0	1.61758	50.0	493175.0	0.404395	Y
3	IC 410-199110/13	10.0	4.36881	50.0	465058.0	0.436881	Y
4	IC 410-199110/14	20.0	8.919396	50.0	489069.0	0.44597	Y
5	ICIS 410-199110/15	50.0	22.887145	50.0	483197.0	0.457743	Y
6	IC 410-199110/16	100.0	49.069007	50.0	463752.0	0.49069	Y
7	IC 410-199110/17	300.0	133.097708	50.0	516427.0	0.443659	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

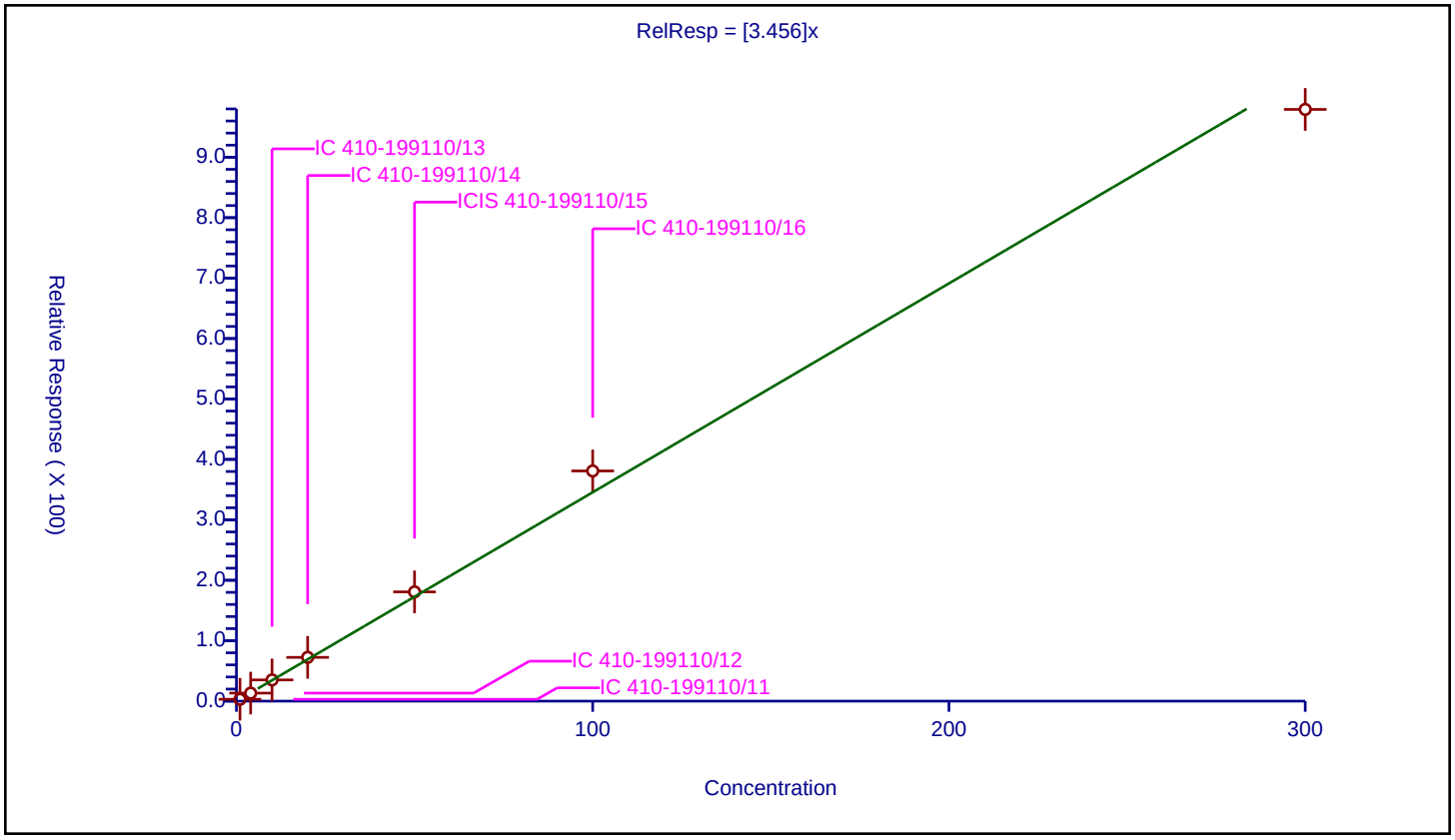
Curve Coefficients

Intercept:	0
Slope:	3.456

Error Coefficients

Standard Error:	4440000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	3.045109	50.0	467356.0	3.045109	Y
2	IC 410-199110/12	4.0	13.298829	50.0	493175.0	3.324707	Y
3	IC 410-199110/13	10.0	35.1139	50.0	465058.0	3.51139	Y
4	IC 410-199110/14	20.0	72.42659	50.0	489069.0	3.62133	Y
5	ICIS 410-199110/15	50.0	180.805655	50.0	483197.0	3.616113	Y
6	IC 410-199110/16	100.0	380.886444	50.0	463752.0	3.808864	Y
7	IC 410-199110/17	300.0	979.170822	50.0	516427.0	3.263903	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

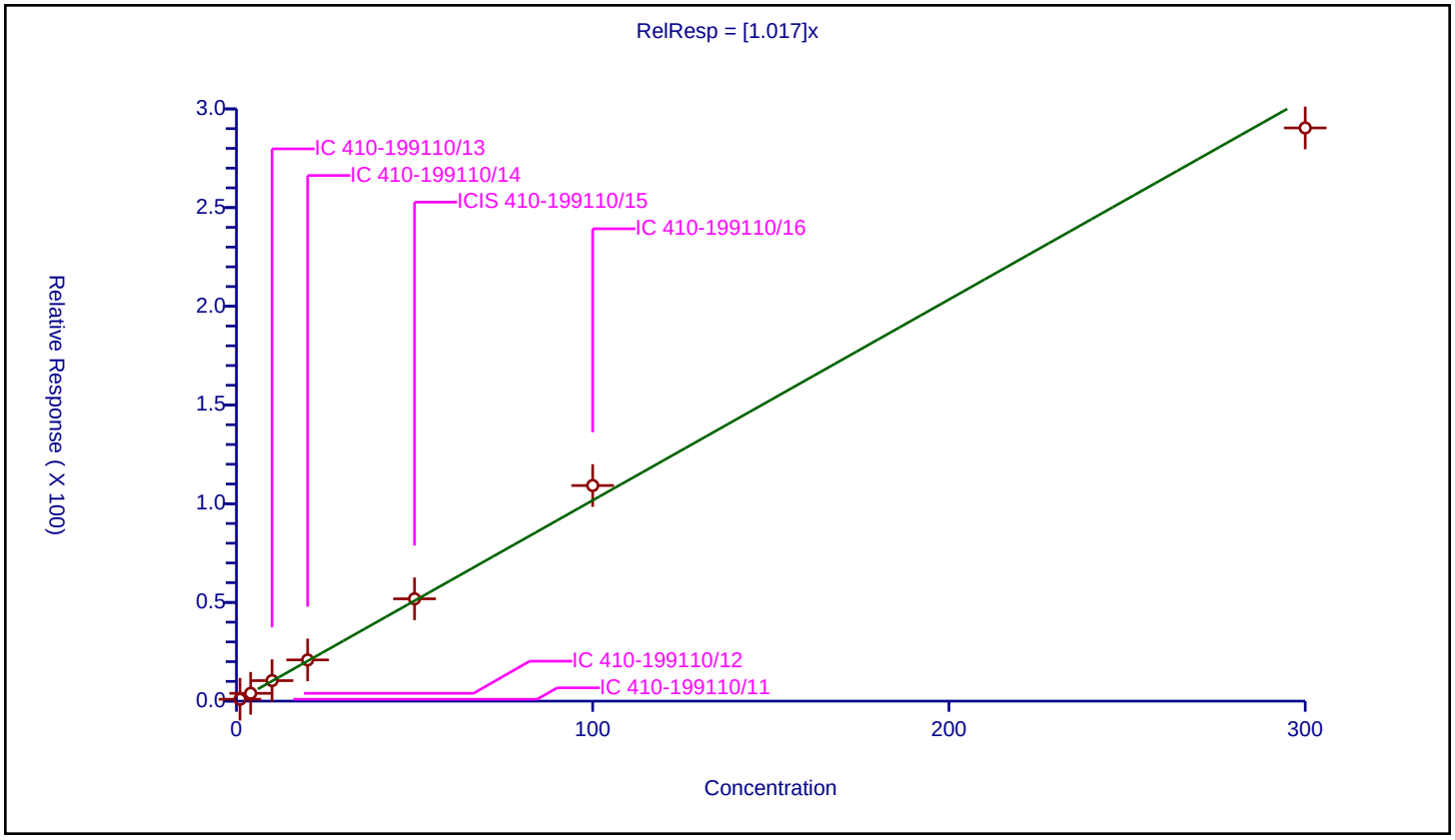
Curve Coefficients

Intercept:	0
Slope:	1.017

Error Coefficients

Standard Error:	1310000
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 410-199110/11	1.0	0.948527	50.0	467356.0	0.948527	Y
2	IC 410-199110/12	4.0	3.962082	50.0	493175.0	0.990521	Y
3	IC 410-199110/13	10.0	10.400638	50.0	465058.0	1.040064	Y
4	IC 410-199110/14	20.0	20.883659	50.0	489069.0	1.044183	Y
5	ICIS 410-199110/15	50.0	51.831448	50.0	483197.0	1.036629	Y
6	IC 410-199110/16	100.0	109.222602	50.0	463752.0	1.092226	Y
7	IC 410-199110/17	300.0	290.353235	50.0	516427.0	0.967844	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

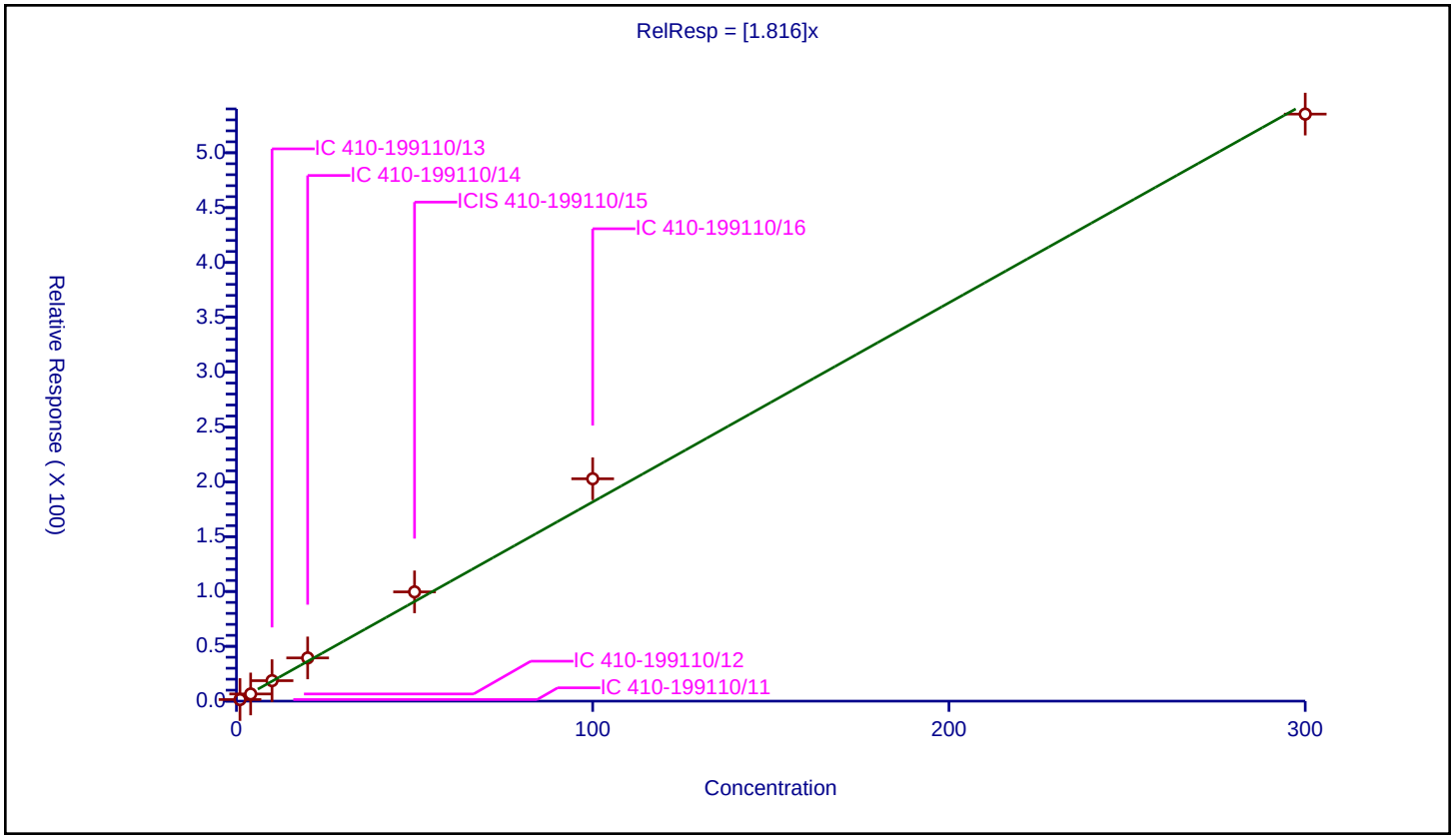
Curve Coefficients

Intercept:	0
Slope:	1.816

Error Coefficients

Standard Error:	2420000
Relative Standard Error:	11.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-199110/11	1.0	1.436485	50.0	467356.0	1.436485	Y
2	IC 410-199110/12	4.0	6.537639	50.0	493175.0	1.63441	Y
3	IC 410-199110/13	10.0	18.668209	50.0	465058.0	1.866821	Y
4	IC 410-199110/14	20.0	39.412946	50.0	489069.0	1.970647	Y
5	ICIS 410-199110/15	50.0	99.638139	50.0	483197.0	1.992763	Y
6	IC 410-199110/16	100.0	202.732926	50.0	463752.0	2.027329	Y
7	IC 410-199110/17	300.0	535.273233	50.0	516427.0	1.784244	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Lab Sample ID: ICV 410-199110/19 Calibration Date: 11/29/2021 18:44

Instrument ID: 9915 Calib Start Date: 11/29/2021 15:48

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 11/29/2021 18:00

Lab File ID: LN29X19.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	0.3153	0.3667	0.1000	23.3	20.0	16.3	30.0
Chloromethane	Ave	0.3621	0.3910	0.1000	21.6	20.0	8.0	30.0
1,3-Butadiene	Ave	0.3760	0.3876		20.6	20.0	3.1	30.0
Vinyl chloride	Ave	0.3617	0.3842	0.1000	21.2	20.0	6.2	30.0
Bromomethane	Ave	0.2434	0.2623	0.1000	21.6	20.0	7.8	30.0
Chloroethane	Ave	0.1997	0.2158	0.1000	21.6	20.0	8.0	30.0
Dichlorofluoromethane	Ave	0.4809	0.5395		22.4	20.0	12.2	30.0
Trichlorofluoromethane	Ave	0.4313	0.4643	0.1000	21.5	20.0	7.6	30.0
n-Pentane	Ave	0.4514	0.5277		23.4	20.0	16.9	30.0
Ethyl ether	Ave	0.2399	0.2637		22.0	20.0	9.9	30.0
Freon 123a	Ave	0.3073	0.3321		21.6	20.0	8.1	30.0
Acrolein	Ave	2.084	2.155		155	150	3.4	30.0
1,1-Dichloroethene	Ave	0.2260	0.2335	0.1000	20.7	20.0	3.3	30.0
Acetone	Ave	0.8748	0.9058	0.1000	259	250	3.5	30.0
Freon 113	Ave	0.2208	0.2515	0.1000	22.8	20.0	13.9	30.0
Methyl iodide	Ave	0.3914	0.4254		21.7	20.0	8.7	30.0
2-Propanol	Ave	0.5221	0.5542		159	150	6.2	30.0
Carbon disulfide	Ave	0.6974	0.8075	0.1000	23.2	20.0	15.8	30.0
Methyl acetate	Ave	0.3024	0.3266	0.1000	21.6	20.0	8.0	30.0
Allyl chloride	Ave	0.4243	0.4584		21.6	20.0	8.1	30.0
Methylene Chloride	Ave	0.2656	0.2694	0.1000	20.3	20.0	1.4	30.0
t-Butyl alcohol	Ave	0.9586	1.024		214	200	6.8	30.0
Acrylonitrile	Ave	0.1502	0.1573		105	100	4.7	30.0
Methyl tertiary butyl ether	Ave	0.8299	0.8555	0.1000	20.6	20.0	3.1	30.0
trans-1,2-Dichloroethene	Ave	0.2588	0.2542	0.1000	19.6	20.0	-1.8	30.0
n-Hexane	Ave	0.3799	0.4050		21.3	20.0	6.6	30.0
1,1-Dichloroethane	Ave	0.4762	0.4675	0.2000	19.6	20.0	-1.8	30.0
di-Isopropyl ether	Ave	0.8811	0.9131		20.7	20.0	3.6	30.0
2-Chloro-1,3-butadiene	Ave	0.4133	0.4362		21.1	20.0	5.5	30.0
Ethyl t-butyl ether	Ave	0.8581	0.9008		21.0	20.0	5.0	30.0
2-Butanone	Ave	0.1987	0.2165	0.1000	272	250	8.9	30.0
cis-1,2-Dichloroethene	Ave	0.2808	0.2909	0.1000	20.7	20.0	3.6	30.0
2,2-Dichloropropane	Ave	0.3945	0.3976		20.2	20.0	0.8	30.0
Propionitrile	Ave	1.379	1.458		159	150	5.7	30.0
Methacrylonitrile	Ave	0.1550	0.1675		162	150	8.0	30.0
Bromochloromethane	Ave	0.1421	0.1401		19.7	20.0	-1.4	30.0
Tetrahydrofuran	Ave	1.247	1.289		103	100	3.4	30.0
Chloroform	Ave	0.4672	0.4590	0.2000	19.7	20.0	-1.7	30.0
1,1,1-Trichloroethane	Ave	0.4095	0.4037	0.1000	19.7	20.0	-1.4	30.0
Cyclohexane	Ave	0.4659	0.4980	0.1000	21.4	20.0	6.9	30.0
1,1-Dichloropropene	Ave	0.3686	0.3711		20.1	20.0	0.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Lab Sample ID: ICV 410-199110/19 Calibration Date: 11/29/2021 18:44

Instrument ID: 9915 Calib Start Date: 11/29/2021 15:48

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 11/29/2021 18:00

Lab File ID: LN29X19.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon tetrachloride	Ave	0.3343	0.3317	0.1000	19.8	20.0	-0.8	30.0
Isobutyl alcohol	Ave	0.3334	0.3552		533	500	6.5	30.0
Benzene	Ave	1.077	1.083	0.5000	20.1	20.0	0.5	30.0
1,2-Dichloroethane	Ave	0.3988	0.3929	0.1000	19.7	20.0	-1.5	30.0
t-Amyl methyl ether	Ave	0.8300	0.8617		20.8	20.0	3.8	30.0
n-Heptane	Ave	0.4146	0.4364		21.1	20.0	5.3	30.0
n-Butanol	Lin1		0.2842		999	1000	-0.0	30.0
Trichloroethene	Ave	0.2764	0.2702	0.2000	19.6	20.0	-2.2	30.0
Methylcyclohexane	Ave	0.4704	0.4966	0.1000	21.1	20.0	5.6	30.0
1,2-Dichloropropane	Ave	0.2897	0.2885	0.1000	19.9	20.0	-0.4	30.0
t-Amyl ethyl ether	Ave	0.4045	0.4245		21.0	20.0	5.0	30.0
Methyl methacrylate	Ave	0.2515	0.2602		20.7	20.0	3.4	30.0
1,4-Dioxane	Ave	0.0685	0.0691	0.0050	505	500	1.0	30.0
Dibromomethane	Ave	0.1878	0.1855		19.8	20.0	-1.2	30.0
Bromodichloromethane	Ave	0.3465	0.3492	0.2000	20.2	20.0	0.8	30.0
2-Nitropropane	Ave	2.833	2.608		18.4	20.0	-7.9	30.0
2-Chloroethyl vinyl ether	Ave	0.2144	0.2191		20.4	20.0	2.2	30.0
cis-1,3-Dichloropropene	Ave	0.4520	0.4532	0.2000	20.1	20.0	0.3	30.0
4-Methyl-2-pentanone	Ave	0.4158	0.4578	0.1000	275	250	10.1	30.0
Toluene	Ave	0.8664	0.8689	0.4000	20.1	20.0	0.3	30.0
trans-1,3-Dichloropropene	Ave	0.5361	0.5611	0.1000	20.9	20.0	4.7	30.0
Ethyl methacrylate	Ave	0.5556	0.5941		21.4	20.0	6.9	30.0
1,1,2-Trichloroethane	Ave	0.3303	0.3367	0.1000	20.4	20.0	1.9	30.0
Tetrachloroethene	Ave	0.3543	0.3502	0.2000	19.8	20.0	-1.2	30.0
1,3-Dichloropropane	Ave	0.5645	0.5685		20.1	20.0	0.7	30.0
2-Hexanone	Ave	0.3825	0.4382	0.1000	286	250	14.6	30.0
Dibromochloromethane	Ave	0.3474	0.3499		20.1	20.0	0.7	30.0
1,2-Dibromoethane	Ave	0.3634	0.3695	0.1000	20.3	20.0	1.7	30.0
1-Chlorohexane	Ave	0.4799	0.4773		19.9	20.0	-0.5	30.0
Chlorobenzene	Ave	0.9478	0.9488	0.5000	20.0	20.0	0.1	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3302	0.3361		20.4	20.0	1.8	30.0
Ethylbenzene	Ave	1.687	1.707	0.1000	20.2	20.0	1.2	30.0
m&p-Xylene	Ave	0.6422	0.6553	0.1000	40.8	40.0	2.0	30.0
o-Xylene	Ave	0.6409	0.6472	0.3000	20.2	20.0	1.0	30.0
Styrene	Ave	1.072	1.111	0.3000	20.7	20.0	3.6	30.0
Bromoform	Ave	0.2546	0.2604	0.1000	20.5	20.0	2.3	30.0
Isopropylbenzene	Ave	1.639	1.708	0.1000	20.8	20.0	4.2	30.0
Cyclohexanone	Ave	0.3202	0.2794		436	500	-12.8	30.0
1,1,2,2-Tetrachloroethane	Ave	1.036	1.072	0.3000	20.7	20.0	3.5	30.0
Bromobenzene	Ave	0.7739	0.8047		20.8	20.0	4.0	30.0
trans-1,4-Dichloro-2-butene	Ave	0.3371	0.3579		106	100	6.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Lab Sample ID: ICV 410-199110/19 Calibration Date: 11/29/2021 18:44

Instrument ID: 9915 Calib Start Date: 11/29/2021 15:48

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 11/29/2021 18:00

Lab File ID: LN29X19.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.3048	0.3026		19.9	20.0	-0.7	30.0
N-Propylbenzene	Ave	3.682	3.781		20.5	20.0	2.7	30.0
2-Chlorotoluene	Ave	0.7254	0.7401		20.4	20.0	2.0	30.0
1,3,5-Trimethylbenzene	Ave	2.621	2.675		20.4	20.0	2.1	30.0
4-Chlorotoluene	Ave	0.7475	0.7554		20.2	20.0	1.1	30.0
tert-Butylbenzene	Ave	0.5105	0.5222		20.5	20.0	2.3	30.0
1,2,4-Trimethylbenzene	Ave	2.703	2.755		20.4	20.0	1.9	30.0
sec-Butylbenzene	Ave	3.167	3.347		21.1	20.0	5.7	30.0
1,3-Dichlorobenzene	Ave	1.481	1.480	0.6000	20.0	20.0	-0.0	30.0
p-Isopropyltoluene	Ave	2.763	2.876		20.8	20.0	4.1	30.0
1,4-Dichlorobenzene	Ave	1.513	1.531	0.5000	20.2	20.0	1.2	30.0
1,2,3-Trimethylbenzene	Ave	2.756	2.865		20.8	20.0	4.0	30.0
Benzyl chloride	Ave	2.029	2.128		21.0	20.0	4.9	30.0
1,3-Diethylbenzene	Ave	1.651	1.715		20.8	20.0	3.8	30.0
1,4-Diethylbenzene	Ave	1.703	1.816		21.3	20.0	6.6	30.0
n-Butylbenzene	Ave	1.402	1.461		20.8	20.0	4.2	30.0
1,2-Dichlorobenzene	Ave	1.461	1.473	0.4000	20.2	20.0	0.8	30.0
1,2-Diethylbenzene	Ave	1.379	1.436		20.8	20.0	4.1	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.2443	0.2453	0.0500	20.1	20.0	0.4	30.0
1,3,5-Trichlorobenzene	Ave	1.080	1.126		20.8	20.0	4.2	30.0
1,2,4-Trichlorobenzene	Ave	1.055	1.102	0.2000	20.9	20.0	4.5	30.0
Hexachlorobutadiene	Ave	0.4408	0.5399		24.5	20.0	22.5	30.0
Naphthalene	Ave	3.456	3.627		21.0	20.0	4.9	30.0
1,2,3-Trichlorobenzene	Ave	1.017	1.074		21.1	20.0	5.6	30.0
2-Methylnaphthalene	Ave	1.816	2.104		23.2	20.0	15.8	30.0
Dibromofluoromethane (Surr)	Ave	0.2486	0.2482		49.9	50.0	-0.2	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0611	0.0606		49.6	50.0	-0.8	30.0
Toluene-d8 (Surr)	Ave	1.290	1.298		50.3	50.0	0.6	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4893	0.4939		50.5	50.0	0.9	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X19.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 29-Nov-2021 18:44:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045073-019
Misc. Info.: ICV LG
Operator ID: kas02648 Instrument ID: 9915
Sublist:

Method: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 29-Nov-2021 23:41:26 Calib Date: 29-Nov-2021 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: campbellme Date: 29-Nov-2021 23:38:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.088	2.075	0.013	99	169660	20.0	23.3	
4 Chloromethane	50	2.294	2.284	0.010	99	180877	20.0	21.6	
5 Butadiene	39	2.416	2.403	0.013	96	179318	20.0	20.6	
6 Vinyl chloride	62	2.419	2.410	0.009	73	177752	20.0	21.2	
8 Bromomethane	94	2.767	2.757	0.010	91	121358	20.0	21.6	
9 Chloroethane	64	2.850	2.840	0.010	99	99838	20.0	21.6	
10 Dichlorofluoromethane	67	3.101	3.091	0.010	97	249591	20.0	22.4	
11 Trichlorofluoromethane	101	3.175	3.165	0.010	98	214816	20.0	21.5	
12 Pentane	43	3.204	3.197	0.007	98	244134	20.0	23.4	
14 Ethyl ether	59	3.429	3.419	0.010	94	121976	20.0	22.0	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.522	3.509	0.013	94	153643	20.0	21.6	
16 Acrolein	56	3.612	3.599	0.013	99	317857	150.3	155.5	
17 1,1-Dichloroethene	96	3.757	3.744	0.013	96	108018	20.0	20.7	
18 Acetone	58	3.789	3.779	0.010	99	222148	250.0	258.9	
19 112TCTFE	101	3.799	3.786	0.013	85	116367	20.0	22.8	
20 Iodomethane	142	3.959	3.950	0.009	98	196795	20.0	21.7	
21 Isopropyl alcohol	45	3.979	3.956	0.023	48	81556	150.0	159.2	
22 Carbon disulfide	76	4.066	4.053	0.013	99	373587	20.0	23.2	
24 Methyl acetate	43	4.236	4.220	0.016	99	151102	20.0	21.6	
25 3-Chloro-1-propene	41	4.252	4.249	0.003	90	212082	20.0	21.6	
26 Methylene Chloride	84	4.455	4.445	0.010	97	124629	20.0	20.3	
* 27 t-Butyl alcohol-d10 (IS)	65	4.483	4.464	0.019	61	245263	250.0	250.0	
28 2-Methyl-2-propanol	59	4.612	4.602	0.010	99	200844	200.0	213.6	
29 Acrylonitrile	53	4.808	4.795	0.013	99	363783	100.0	104.7	
31 Methyl tert-butyl ether	73	4.869	4.860	0.009	90	395811	20.0	20.6	
32 trans-1,2-Dichloroethene	96	4.876	4.863	0.013	97	117589	20.0	19.6	
33 Hexane	57	5.303	5.287	0.016	95	187382	20.0	21.3	
35 1,1-Dichloroethane	63	5.532	5.528	0.004	96	216267	20.0	19.6	
36 Isopropyl ether	45	5.593	5.583	0.010	94	422455	20.0	20.7	
37 2-Chloro-1,3-butadiene	53	5.638	5.631	0.007	93	201799	20.0	21.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 Tert-butyl ethyl ether	59	6.114	6.110	0.004	98	416762	20.0	21.0	
40 2-Butanone (MEK)	43	6.326	6.326	0.000	100	1251793	250.0	272.3	
41 cis-1,2-Dichloroethene	96	6.355	6.352	0.003	84	134597	20.0	20.7	
42 2,2-Dichloropropane	77	6.371	6.364	0.007	94	183964	20.0	20.2	
44 Propionitrile	54	6.416	6.416	0.000	99	214558	150.0	158.6	
45 Methacrylonitrile	67	6.631	6.631	0.000	94	581032	150.0	162.0	
46 Chlorobromomethane	128	6.689	6.680	0.009	95	64839	20.0	19.7	
47 Tetrahydrofuran	71	6.699	6.689	0.010	88	126423	100.0	103.4	
48 Chloroform	83	6.834	6.831	0.003	94	212363	20.0	19.7	
$ 49 Dibromofluoromethane (Surr)	113	7.049	7.040	0.009	93	287083	50.0	49.9	
50 1,1,1-Trichloroethane	97	7.059	7.053	0.006	98	186763	20.0	19.7	
51 Cyclohexane	56	7.159	7.152	0.007	93	230380	20.0	21.4	
52 Carbon tetrachloride	117	7.271	7.262	0.009	95	153470	20.0	19.8	
53 1,1-Dichloropropene	75	7.271	7.268	0.003	92	171682	20.0	20.1	
54 Isobutyl alcohol	41	7.425	7.422	0.003	95	174212	500.0	532.7	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.506	7.499	0.007	96	70083	50.0	49.6	
56 Benzene	78	7.532	7.528	0.004	97	500854	20.0	20.1	
57 1,2-Dichloroethane	62	7.602	7.599	0.003	97	181751	20.0	19.7	
59 Tert-amyl methyl ether	73	7.718	7.715	0.003	98	398653	20.0	20.8	
* 61 Fluorobenzene (IS)	96	7.934	7.930	0.004	98	1156602	50.0	50.0	
62 n-Heptane	43	7.940	7.937	0.003	96	201903	20.0	21.1	
63 n-Butanol	56	8.290	8.287	0.003	90	278800	1000.0	999.4	M
64 Trichloroethene	95	8.409	8.403	0.006	98	124993	20.0	19.6	
65 Methylcyclohexane	83	8.712	8.712	0.000	96	229745	20.0	21.1	
67 1,2-Dichloropropane	63	8.741	8.737	0.004	69	133464	20.0	19.9	
66 2-ethoxy-2-methyl butane	87	8.741	8.737	0.004	88	196412	20.0	21.0	
68 Methyl methacrylate	69	8.815	8.815	0.000	92	120364	20.0	20.7	
69 1,4-Dioxane	88	8.824	8.818	0.006	49	33905	500.0	504.9	
70 Dibromomethane	93	8.847	8.847	0.000	96	85824	20.0	19.8	
72 Dichlorobromomethane	83	9.085	9.078	0.007	98	161556	20.0	20.2	
73 2-Nitropropane	41	9.348	9.345	0.003	99	51170	20.0	18.4	
74 2-Chloroethyl vinyl ether	63	9.432	9.429	0.003	92	101360	20.0	20.4	
75 cis-1,3-Dichloropropene	75	9.612	9.609	0.003	93	209689	20.0	20.1	
77 4-Methyl-2-pentanone (MIBK)	43	9.776	9.776	0.000	98	2647486	250.0	275.3	
$ 78 Toluene-d8 (Surr)	98	9.911	9.908	0.003	94	1167227	50.0	50.3	
79 Toluene	92	9.985	9.982	0.003	98	312603	20.0	20.1	
84 trans-1,3-Dichloropropene	75	10.232	10.229	0.003	95	201888	20.0	20.9	
85 Ethyl methacrylate	69	10.287	10.287	0.000	91	213759	20.0	21.4	
86 1,1,2-Trichloroethane	97	10.432	10.432	0.000	91	121153	20.0	20.4	
87 Tetrachloroethene	166	10.522	10.519	0.003	96	125988	20.0	19.8	
88 1,3-Dichloropropane	76	10.593	10.593	0.000	94	204544	20.0	20.1	
90 2-Hexanone	43	10.641	10.641	0.000	98	1970675	250.0	286.4	
92 Chlorodibromomethane	129	10.805	10.802	0.003	90	125876	20.0	20.1	
93 Ethylene Dibromide	107	10.914	10.914	0.000	99	132941	20.0	20.3	
* 95 Chlorobenzene-d5 (IS)	117	11.342	11.339	0.003	87	899454	50.0	50.0	
96 1-Chlorohexane	91	11.345	11.345	0.000	96	171730	20.0	19.9	
97 Chlorobenzene	112	11.367	11.364	0.003	94	341378	20.0	20.0	
98 1,1,1,2-Tetrachloroethane	131	11.445	11.445	0.000	94	120922	20.0	20.4	
99 Ethylbenzene	91	11.448	11.448	0.000	99	614238	20.0	20.2	
100 m-Xylene & p-Xylene	106	11.564	11.560	0.004	99	471503	40.0	40.8	
101 o-Xylene	106	11.892	11.888	0.004	97	232849	20.0	20.2	
102 Styrene	104	11.904	11.904	0.000	95	399586	20.0	20.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 Bromoform	173	12.062	12.059	0.003	96	93687	20.0	20.5	
104 Isopropylbenzene	105	12.187	12.184	0.003	96	614398	20.0	20.8	
106 Cyclohexanone	55	12.265	12.265	0.000	96	137047	500.0	436.2	
$ 107 4-Bromofluorobenzene (Surr)	95	12.329	12.329	0.000	88	444231	50.0	50.5	
108 1,1,2,2-Tetrachloroethane	83	12.429	12.429	0.000	93	205382	20.0	20.7	
109 Bromobenzene	156	12.448	12.448	0.000	94	154194	20.0	20.8	
110 trans-1,4-Dichloro-2-butene	53	12.454	12.451	0.003	95	342912	100.0	106.2	
111 1,2,3-Trichloropropane	110	12.477	12.474	0.003	85	57978	20.0	19.9	
112 N-Propylbenzene	91	12.512	12.512	0.000	99	724558	20.0	20.5	
113 2-Chlorotoluene	126	12.592	12.589	0.003	96	141804	20.0	20.4	
114 1,3,5-Trimethylbenzene	105	12.647	12.647	0.000	94	512605	20.0	20.4	
115 4-Chlorotoluene	126	12.683	12.683	0.000	98	144741	20.0	20.2	
117 tert-Butylbenzene	134	12.888	12.888	0.000	94	100057	20.0	20.5	
119 1,2,4-Trimethylbenzene	105	12.930	12.930	0.000	98	527827	20.0	20.4	
120 sec-Butylbenzene	105	13.049	13.049	0.000	95	641246	20.0	21.1	
121 1,3-Dichlorobenzene	146	13.152	13.152	0.000	98	283528	20.0	20.0	
122 4-Isopropyltoluene	119	13.155	13.155	0.000	97	551129	20.0	20.8	
* 123 1,4-Dichlorobenzene-d4	152	13.207	13.207	0.000	95	479030	50.0	50.0	
124 1,4-Dichlorobenzene	146	13.226	13.223	0.003	95	293382	20.0	20.2	
125 1,2,3-Trimethylbenzene	105	13.232	13.232	0.000	99	548974	20.0	20.8	
126 Benzyl chloride	91	13.300	13.300	0.000	99	407732	20.0	21.0	
127 1,3-Diethylbenzene	119	13.355	13.355	0.000	95	328553	20.0	20.8	
128 p-Diethylbenzene	119	13.425	13.425	0.000	94	347921	20.0	21.3	
129 n-Butylbenzene	92	13.448	13.448	0.000	98	279958	20.0	20.8	
130 1,2-Dichlorobenzene	146	13.486	13.483	0.003	98	282168	20.0	20.2	
131 o-diethylbenzene	119	13.499	13.499	0.000	96	275066	20.0	20.8	
133 1,2-Dibromo-3-Chloropropane	75	14.023	14.023	0.000	83	47005	20.0	20.1	
134 1,3,5-Trichlorobenzene	180	14.149	14.149	0.000	98	215770	20.0	20.8	
135 1,2,4-Trichlorobenzene	180	14.570	14.570	0.000	94	211222	20.0	20.9	
136 Hexachlorobutadiene	225	14.654	14.654	0.000	97	103452	20.0	24.5	
137 Naphthalene	128	14.753	14.753	0.000	97	694969	20.0	21.0	
138 1,2,3-Trichlorobenzene	180	14.898	14.898	0.000	95	205781	20.0	21.1	
139 2-Methylnaphthalene	142	15.541	15.541	0.000	92	403141	20.0	23.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00029	Amount Added: 50.00	Units: uL	
MSV_LCS_2CEVE_00034	Amount Added: 50.00	Units: uL	
MSV_Q_EE_00005	Amount Added: 50.00	Units: uL	
MSV_QCYC_00006	Amount Added: 50.00	Units: uL	
MSV_QC_2K_GAS_00060	Amount Added: 1.00	Units: uL	
MSV_LCS_ACROL_00032	Amount Added: 50.00	Units: uL	
MSV_HP23_ISSS_00007	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 29-Nov-2021 23:41:29 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X19.D

Injection Date: 29-Nov-2021 18:44:30 Instrument ID: 9915 Operator ID: kas02648

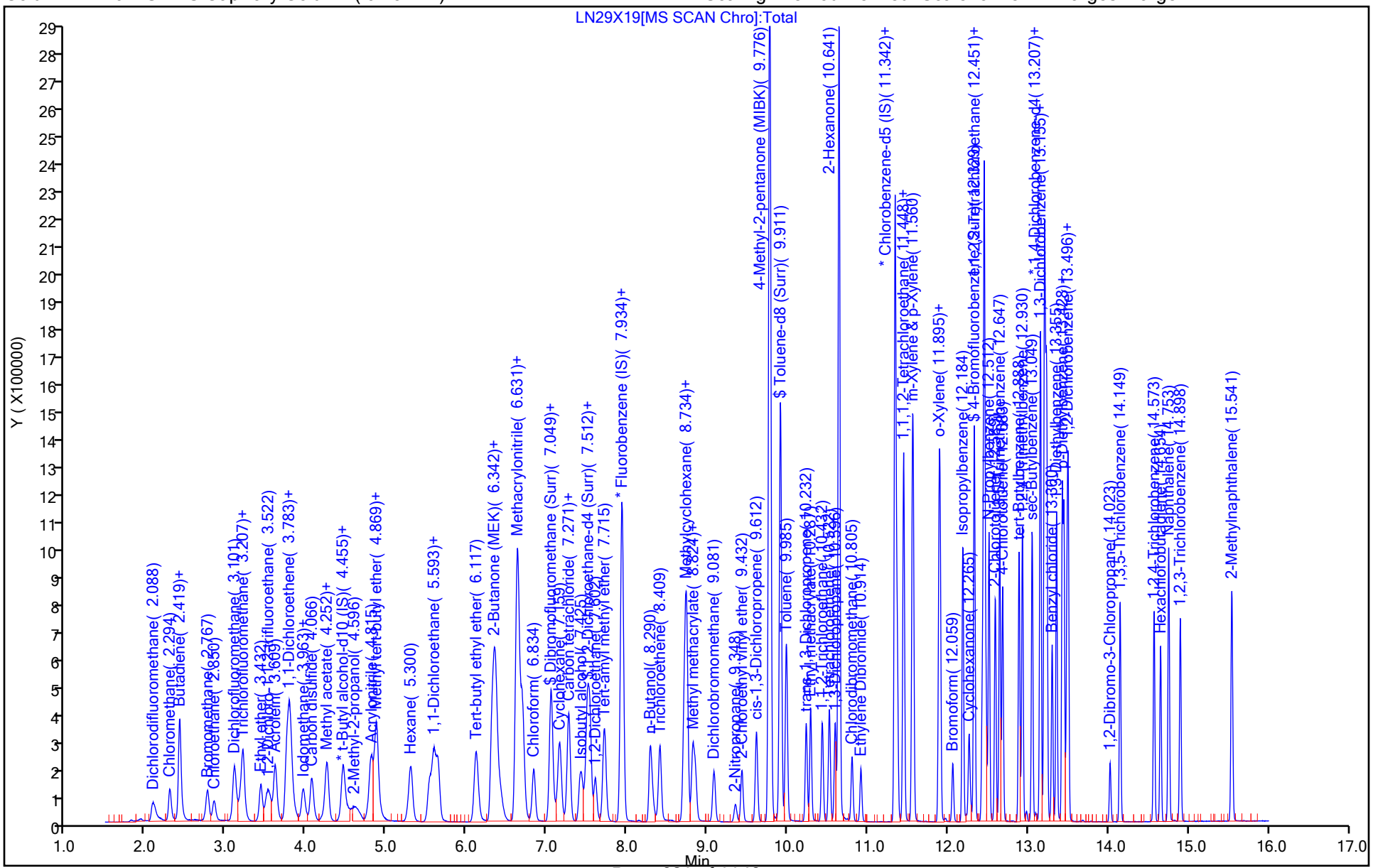
Lims ID: ICV Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 19

Method: MSVoa_9915a 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

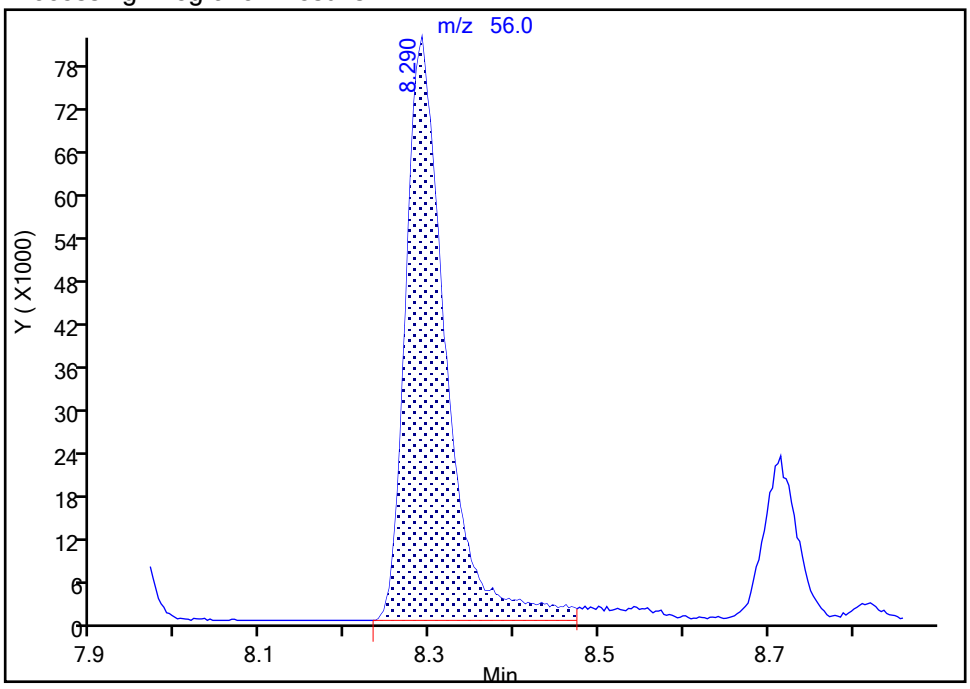
Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X19.D
Injection Date: 29-Nov-2021 18:44:30 Instrument ID: 9915
Lims ID: ICV
Client ID:
Operator ID: kas02648 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

63 n-Butanol, CAS: 71-36-3

Signal: 1

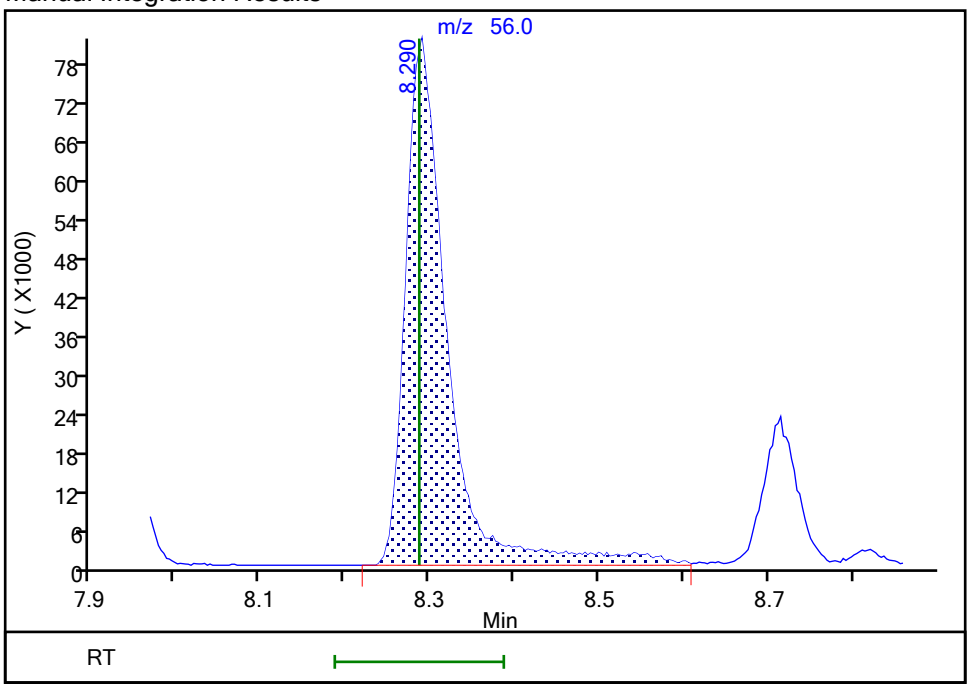
Processing Integration Results

RT: 8.29
Area: 268024
Amount: 962.7683
Amount Units: ug/l



Manual Integration Results

RT: 8.29
Area: 278800
Amount: 999.3610
Amount Units: ug/l



Reviewer: campbellme, 29-Nov-2021 23:36:58
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Lab Sample ID: CCVIS 410-233094/3 Calibration Date: 03/14/2022 09:35

Instrument ID: 9915 Calib Start Date: 11/29/2021 15:48

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 11/29/2021 18:00

Lab File ID: LM14C01.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	0.3153	0.2661	0.1000	42.2	50.0	-15.6	20.0
Chloromethane	Ave	0.3621	0.3630	0.1000	50.1	50.0	0.3	20.0
Vinyl chloride	Ave	0.3617	0.3235	0.1000	44.7	50.0	-10.6	20.0
1,3-Butadiene	Ave	0.3760	0.5375		71.5	50.0	42.9*	20.0
Bromomethane	Ave	0.2434	0.2083	0.1000	42.8	50.0	-14.4	20.0
Chloroethane	Ave	0.1997	0.1870	0.1000	46.8	50.0	-6.4	20.0
Dichlorofluoromethane	Ave	0.4809	0.4362		45.4	50.0	-9.3	20.0
Trichlorofluoromethane	Ave	0.4313	0.3618	0.1000	41.9	50.0	-16.1	20.0
n-Pentane	Ave	0.4514	0.4088		45.3	50.0	-9.4	20.0
Ethyl ether	Ave	0.2399	0.1938		40.4	50.0	-19.2	20.0
Freon 123a	Ave	0.3073	0.2925		47.6	50.0	-4.8	20.0
Acrolein	Ave	2.084	1.759		422	500	-15.6	20.0
1,1-Dichloroethene	Ave	0.2260	0.2004	0.1000	44.3	50.0	-11.3	20.0
Acetone	Ave	0.8748	0.7599	0.1000	86.9	100	-13.1	20.0
Freon 113	Ave	0.2208	0.1817	0.1000	41.1	50.0	-17.7	20.0
2-Propanol	Ave	0.5221	0.4487		215	250	-14.0	20.0
Methyl iodide	Ave	0.3914	0.3532		45.1	50.0	-9.8	20.0
Carbon disulfide	Ave	0.6974	0.6841	0.1000	49.0	50.0	-1.9	20.0
Methyl acetate	Ave	0.3024	0.3392	0.1000	56.1	50.0	12.2	20.0
Allyl chloride	Ave	0.4243	0.4276		50.4	50.0	0.8	20.0
Methylene Chloride	Ave	0.2656	0.2451	0.1000	46.1	50.0	-7.7	20.0
t-Butyl alcohol	Ave	0.9586	0.8517		222	250	-11.1	20.0
Acrylonitrile	Ave	0.1502	0.1695		141	125	12.9	20.0
Methyl tertiary butyl ether	Ave	0.8299	0.8096	0.1000	48.8	50.0	-2.4	20.0
trans-1,2-Dichloroethene	Ave	0.2588	0.2331	0.1000	45.0	50.0	-9.9	20.0
n-Hexane	Ave	0.3799	0.3602		47.4	50.0	-5.2	20.0
1,1-Dichloroethane	Ave	0.4762	0.4602	0.2000	48.3	50.0	-3.3	20.0
di-Isopropyl ether	Ave	0.8811	0.9292		52.7	50.0	5.5	20.0
2-Chloro-1,3-butadiene	Ave	0.4133	0.3998		48.4	50.0	-3.3	20.0
Ethyl t-butyl ether	Ave	0.8581	0.8338		48.6	50.0	-2.8	20.0
2-Butanone	Ave	0.1987	0.2501	0.1000	126	100	25.9*	20.0
cis-1,2-Dichloroethene	Ave	0.2808	0.2558	0.1000	45.6	50.0	-8.9	20.0
2,2-Dichloropropane	Ave	0.3945	0.3533		44.8	50.0	-10.4	20.0
Propionitrile	Ave	1.379	1.331		241	250	-3.5	20.0
Methacrylonitrile	Ave	0.1550	0.1690		136	125	9.0	20.0
Bromochloromethane	Ave	0.1421	0.1317		46.3	50.0	-7.3	20.0
Tetrahydrofuran	Ave	1.247	1.065		214	250	-14.5	20.0
Chloroform	Ave	0.4672	0.4260	0.2000	45.6	50.0	-8.8	20.0
1,1,1-Trichloroethane	Ave	0.4095	0.3621	0.1000	44.2	50.0	-11.6	20.0
Cyclohexane	Ave	0.4659	0.4268	0.1000	45.8	50.0	-8.4	20.0
1,1-Dichloropropene	Ave	0.3686	0.3421		46.4	50.0	-7.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Lab Sample ID: CCVIS 410-233094/3 Calibration Date: 03/14/2022 09:35

Instrument ID: 9915 Calib Start Date: 11/29/2021 15:48

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 11/29/2021 18:00

Lab File ID: LM14C01.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon tetrachloride	Ave	0.3343	0.2947	0.1000	44.1	50.0	-11.9	20.0
Isobutyl alcohol	Ave	0.3334	0.3532		662	625	5.9	20.0
Benzene	Ave	1.077	1.007	0.5000	46.7	50.0	-6.5	20.0
1,2-Dichloroethane	Ave	0.3988	0.3762	0.1000	47.2	50.0	-5.7	20.0
t-Amyl methyl ether	Ave	0.8300	0.7829		47.2	50.0	-5.7	20.0
n-Heptane	Ave	0.4146	0.4277		51.6	50.0	3.2	20.0
n-Butanol	Lin1		0.2571		588	625	-5.9	20.0
Trichloroethene	Ave	0.2764	0.2468	0.2000	44.6	50.0	-10.7	20.0
Methylcyclohexane	Ave	0.4704	0.4186	0.1000	44.5	50.0	-11.0	20.0
1,2-Dichloropropane	Ave	0.2897	0.2837	0.1000	49.0	50.0	-2.1	20.0
t-Amyl ethyl ether	Ave	0.4045	0.3710		45.9	50.0	-8.3	20.0
Methyl methacrylate	Ave	0.2515	0.2590		51.5	50.0	3.0	20.0
1,4-Dioxane	Ave	0.0685	0.0745	0.0050	681	625	8.9	20.0
Dibromomethane	Ave	0.1878	0.1724		45.9	50.0	-8.2	20.0
Bromodichloromethane	Ave	0.3465	0.3241	0.2000	46.8	50.0	-6.4	20.0
2-Nitropropane	Ave	2.833	2.452		216	250	-13.5	20.0
2-Chloroethyl vinyl ether	Ave	0.2144	0.2419		56.4	50.0	12.8	20.0
cis-1,3-Dichloropropene	Ave	0.4520	0.4539	0.2000	50.2	50.0	0.4	20.0
4-Methyl-2-pentanone	Ave	0.4158	0.5132	0.1000	123	100	23.4*	20.0
Toluene	Ave	0.8664	0.7902	0.4000	45.6	50.0	-8.8	20.0
trans-1,3-Dichloropropene	Ave	0.5361	0.5268	0.1000	49.1	50.0	-1.7	20.0
Ethyl methacrylate	Ave	0.5556	0.5456		49.1	50.0	-1.8	20.0
1,1,2-Trichloroethane	Ave	0.3303	0.3123	0.1000	47.3	50.0	-5.5	20.0
Tetrachloroethene	Ave	0.3543	0.3307	0.2000	46.7	50.0	-6.7	20.0
1,3-Dichloropropane	Ave	0.5645	0.5426		48.1	50.0	-3.9	20.0
2-Hexanone	Ave	0.3825	0.4766	0.1000	125	100	24.6*	20.0
Dibromochloromethane	Ave	0.3474	0.3404		49.0	50.0	-2.0	20.0
1,2-Dibromoethane	Ave	0.3634	0.3404	0.1000	46.8	50.0	-6.3	20.0
1-Chlorohexane	Ave	0.4799	0.4121		42.9	50.0	-14.1	20.0
Chlorobenzene	Ave	0.9478	0.8689	0.5000	45.8	50.0	-8.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3302	0.2980		45.1	50.0	-9.7	20.0
Ethylbenzene	Ave	1.687	1.529	0.1000	45.3	50.0	-9.4	20.0
m&p-Xylene	Ave	0.6422	0.5888	0.1000	91.7	100	-8.3	20.0
o-Xylene	Ave	0.6409	0.5765	0.3000	45.0	50.0	-10.0	20.0
Styrene	Ave	1.072	1.009	0.3000	47.1	50.0	-5.9	20.0
Bromoform	Ave	0.2546	0.2619	0.1000	51.4	50.0	2.9	20.0
Isopropylbenzene	Ave	1.639	1.473	0.1000	44.9	50.0	-10.2	20.0
Cyclohexanone	Ave	0.3202	0.2537		495	625	-20.8*	20.0
1,1,2,2-Tetrachloroethane	Ave	1.036	0.9182	0.3000	44.3	50.0	-11.4	20.0
Bromobenzene	Ave	0.7739	0.6878		44.4	50.0	-11.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3371	0.1620		60.1	125	-51.9*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Lab Sample ID: CCVIS 410-233094/3 Calibration Date: 03/14/2022 09:35

Instrument ID: 9915 Calib Start Date: 11/29/2021 15:48

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 11/29/2021 18:00

Lab File ID: LM14C01.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.3048	0.2710		44.5	50.0	-11.1	20.0
N-Propylbenzene	Ave	3.682	3.213		43.6	50.0	-12.8	20.0
2-Chlorotoluene	Ave	0.7254	0.6214		42.8	50.0	-14.3	20.0
1,3,5-Trimethylbenzene	Ave	2.621	2.259		43.1	50.0	-13.8	20.0
4-Chlorotoluene	Ave	0.7475	0.6503		43.5	50.0	-13.0	20.0
tert-Butylbenzene	Ave	0.5105	0.4487		43.9	50.0	-12.1	20.0
1,2,4-Trimethylbenzene	Ave	2.703	2.328		43.1	50.0	-13.9	20.0
sec-Butylbenzene	Ave	3.167	2.787		44.0	50.0	-12.0	20.0
1,3-Dichlorobenzene	Ave	1.481	1.305	0.6000	44.1	50.0	-11.9	20.0
p-Isopropyltoluene	Ave	2.763	2.429		44.0	50.0	-12.1	20.0
1,4-Dichlorobenzene	Ave	1.513	1.328	0.5000	43.9	50.0	-12.2	20.0
1,2,3-Trimethylbenzene	Ave	2.756	2.362		42.9	50.0	-14.3	20.0
Benzyl chloride	Ave	2.029	1.907		47.0	50.0	-6.0	20.0
1,3-Diethylbenzene	Ave	1.651	1.465		44.4	50.0	-11.3	20.0
1,4-Diethylbenzene	Ave	1.703	1.504		44.2	50.0	-11.7	20.0
n-Butylbenzene	Ave	1.402	1.242		44.3	50.0	-11.4	20.0
1,2-Dichlorobenzene	Ave	1.461	1.276	0.4000	43.7	50.0	-12.7	20.0
1,2-Diethylbenzene	Ave	1.379	1.227		44.5	50.0	-11.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2443	0.2186	0.0500	44.7	50.0	-10.5	20.0
1,3,5-Trichlorobenzene	Ave	1.080	0.9632		44.6	50.0	-10.8	20.0
1,2,4-Trichlorobenzene	Ave	1.055	0.9249	0.2000	43.8	50.0	-12.3	20.0
Hexachlorobutadiene	Ave	0.4408	0.3909		44.3	50.0	-11.3	20.0
Naphthalene	Ave	3.456	2.926		42.3	50.0	-15.3	20.0
1,2,3-Trichlorobenzene	Ave	1.017	0.8758		43.1	50.0	-13.9	20.0
2-Methylnaphthalene	Ave	1.816	1.351		37.2	50.0	-25.6*	20.0
Dibromofluoromethane (Surr)	Ave	0.2486	0.2477		49.8	50.0	-0.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0611	0.0614		50.3	50.0	0.6	20.0
Toluene-d8 (Surr)	Ave	1.290	1.322		51.2	50.0	2.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4893	0.4845		49.5	50.0	-1.0	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\LM14C01.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 14-Mar-2022 09:35:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052368-003
Misc. Info.: CCVIS
Operator ID: clm27445 Instrument ID: 9915
Sublist: chrom-MSVoa_9915a*sub45

Method: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2022 10:58:36 Calib Date: 29-Nov-2021 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1633

First Level Reviewer: mellingerc Date: 14-Mar-2022 10:58:36

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
	2 Dichlorodifluoromethane	85	2.072	2.072	0.000	99	282003	50.0	42.2	
	4 Chloromethane	50	2.284	2.284	0.000	99	384627	50.0	50.1	
	6 Vinyl chloride	62	2.406	2.406	0.000	98	342754	50.0	44.7	
	5 Butadiene	39	2.416	2.416	0.000	97	569511	50.0	71.5	
	8 Bromomethane	94	2.767	2.767	0.000	91	220741	50.0	42.8	
	9 Chloroethane	64	2.847	2.847	0.000	99	198129	50.0	46.8	
	10 Dichlorofluoromethane	67	3.104	3.104	0.000	97	462211	50.0	45.4	
	11 Trichlorofluoromethane	101	3.165	3.165	0.000	98	383386	50.0	41.9	M
	12 Pentane	43	3.201	3.201	0.000	97	433133	50.0	45.3	
	14 Ethyl ether	59	3.419	3.419	0.000	95	205362	50.0	40.4	
	15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.529	3.529	0.000	95	309960	50.0	47.6	
	16 Acrolein	56	3.596	3.596	0.000	99	957433	500.0	422.2	
	17 1,1-Dichloroethene	96	3.754	3.754	0.000	97	212288	50.0	44.3	
	18 Acetone	58	3.773	3.773	0.000	99	82708	100.0	86.9	
	19 112TCTFE	101	3.792	3.792	0.000	93	192521	50.0	41.1	
	21 Isopropyl alcohol	45	3.947	3.947	0.000	45	122110	250.0	214.9	
	20 Iodomethane	142	3.963	3.963	0.000	98	374215	50.0	45.1	
	22 Carbon disulfide	76	4.078	4.078	0.000	100	724859	50.0	49.0	
	24 Methyl acetate	43	4.213	4.213	0.000	99	359415	50.0	56.1	
	25 3-Chloro-1-propene	41	4.249	4.249	0.000	90	453030	50.0	50.4	
	26 Methylene Chloride	84	4.451	4.451	0.000	99	259664	50.0	46.1	
*	27 t-Butyl alcohol-d10 (IS)	65	4.516	4.516	0.000	55	272115	250.0	250.0	M
	28 2-Methyl-2-propanol	59	4.583	4.583	0.000	97	231763	250.0	222.1	
	29 Acrylonitrile	53	4.792	4.792	0.000	97	449078	125.0	141.1	
	32 trans-1,2-Dichloroethene	96	4.863	4.863	0.000	96	246993	50.0	45.0	
	31 Methyl tert-butyl ether	73	4.863	4.863	0.000	93	857819	50.0	48.8	
	33 Hexane	57	5.291	5.291	0.000	97	381706	50.0	47.4	
	35 1,1-Dichloroethane	63	5.519	5.519	0.000	96	487627	50.0	48.3	
	36 Isopropyl ether	45	5.577	5.577	0.000	97	984507	50.0	52.7	
	37 2-Chloro-1,3-butadiene	53	5.631	5.631	0.000	93	423589	50.0	48.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 Tert-butyl ethyl ether	59	6.111	6.111	0.000	99	883502	50.0	48.6	
40 2-Butanone (MEK)	43	6.313	6.313	0.000	99	529930	100.0	125.9	
41 cis-1,2-Dichloroethene	96	6.352	6.352	0.000	84	271061	50.0	45.6	
42 2,2-Dichloropropane	77	6.368	6.368	0.000	90	374349	50.0	44.8	
44 Propionitrile	54	6.406	6.406	0.000	99	362255	250.0	241.3	
45 Methacrylonitrile	67	6.625	6.625	0.000	96	447716	125.0	136.3	
46 Chlorobromomethane	128	6.673	6.673	0.000	93	139561	50.0	46.3	
47 Tetrahydrofuran	71	6.692	6.692	0.000	95	289931	250.0	213.6	
48 Chloroform	83	6.828	6.828	0.000	95	451338	50.0	45.6	
$ 49 Dibromofluoromethane (Surr)	113	7.040	7.040	0.000	93	262435	50.0	49.8	
50 1,1,1-Trichloroethane	97	7.062	7.062	0.000	98	383636	50.0	44.2	
51 Cyclohexane	56	7.152	7.152	0.000	94	452209	50.0	45.8	
53 1,1-Dichloropropene	75	7.265	7.265	0.000	93	362469	50.0	46.4	
52 Carbon tetrachloride	117	7.268	7.268	0.000	84	312205	50.0	44.1	
54 Isobutyl alcohol	41	7.419	7.419	0.000	95	240268	625.0	662.2	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.493	7.493	0.000	97	65106	50.0	50.3	
56 Benzene	78	7.525	7.525	0.000	98	1066598	50.0	46.7	
57 1,2-Dichloroethane	62	7.596	7.596	0.000	97	398656	50.0	47.2	
59 Tert-amyl methyl ether	73	7.715	7.715	0.000	97	829589	50.0	47.2	
* 61 Fluorobenzene (IS)	96	7.927	7.927	0.000	98	1059570	50.0	50.0	
62 n-Heptane	43	7.934	7.934	0.000	97	453201	50.0	51.6	
63 n-Butanol	56	8.284	8.284	0.000	93	174925	625.0	588.0	
64 Trichloroethene	95	8.403	8.403	0.000	98	261497	50.0	44.6	
65 Methylcyclohexane	83	8.712	8.712	0.000	92	443508	50.0	44.5	
67 1,2-Dichloropropane	63	8.731	8.731	0.000	85	300611	50.0	49.0	
66 2-ethoxy-2-methyl butane	87	8.737	8.737	0.000	88	393109	50.0	45.9	
68 Methyl methacrylate	69	8.815	8.815	0.000	94	274438	50.0	51.5	
69 1,4-Dioxane	88	8.821	8.821	0.000	40	50707	625.0	680.6	M
70 Dibromomethane	93	8.840	8.840	0.000	96	182686	50.0	45.9	
72 Dichlorobromomethane	83	9.078	9.078	0.000	99	343433	50.0	46.8	
73 2-Nitropropane	41	9.345	9.345	0.000	97	667166	250.0	216.4	
74 2-Chloroethyl vinyl ether	63	9.425	9.425	0.000	91	256339	50.0	56.4	
75 cis-1,3-Dichloropropene	75	9.609	9.609	0.000	93	480918	50.0	50.2	
77 4-Methyl-2-pentanone (MIBK)	43	9.773	9.773	0.000	99	1087644	100.0	123.4	
$ 78 Toluene-d8 (Surr)	98	9.908	9.908	0.000	95	1129709	50.0	51.2	
79 Toluene	92	9.985	9.985	0.000	97	675498	50.0	45.6	
84 trans-1,3-Dichloropropene	75	10.233	10.233	0.000	96	450332	50.0	49.1	
85 Ethyl methacrylate	69	10.284	10.284	0.000	93	466420	50.0	49.1	
86 1,1,2-Trichloroethane	97	10.432	10.432	0.000	92	266956	50.0	47.3	
87 Tetrachloroethene	166	10.519	10.519	0.000	98	282690	50.0	46.7	
88 1,3-Dichloropropane	76	10.593	10.593	0.000	96	463809	50.0	48.1	
90 2-Hexanone	43	10.641	10.641	0.000	99	814763	100.0	124.6	
92 Chlorodibromomethane	129	10.805	10.805	0.000	90	291020	50.0	49.0	
93 Ethylene Dibromide	107	10.914	10.914	0.000	99	291017	50.0	46.8	
* 95 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	87	854843	50.0	50.0	
96 1-Chlorohexane	91	11.345	11.345	0.000	93	352312	50.0	42.9	
97 Chlorobenzene	112	11.368	11.368	0.000	93	742767	50.0	45.8	
98 1,1,1,2-Tetrachloroethane	131	11.445	11.445	0.000	95	254775	50.0	45.1	
99 Ethylbenzene	91	11.448	11.448	0.000	99	1307241	50.0	45.3	
100 m-Xylene & p-Xylene	106	11.560	11.560	0.000	99	1006663	100.0	91.7	
101 o-Xylene	106	11.888	11.888	0.000	97	492859	50.0	45.0	
102 Styrene	104	11.904	11.904	0.000	95	862301	50.0	47.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 Bromoform	173	12.059	12.059	0.000	97	223864	50.0	51.4	
104 Isopropylbenzene	105	12.184	12.184	0.000	96	1259011	50.0	44.9	
106 Cyclohexanone	55	12.265	12.265	0.000	96	172615	625.0	495.2	
$ 107 4-Bromofluorobenzene (Surr)	95	12.329	12.329	0.000	91	414133	50.0	49.5	
108 1,1,2,2-Tetrachloroethane	83	12.429	12.429	0.000	94	439598	50.0	44.3	
109 Bromobenzene	156	12.448	12.448	0.000	96	329300	50.0	44.4	
110 trans-1,4-Dichloro-2-butene	53	12.454	12.454	0.000	88	193905	125.0	60.1	
111 1,2,3-Trichloropropane	110	12.474	12.474	0.000	86	129740	50.0	44.5	
112 N-Propylbenzene	91	12.512	12.512	0.000	99	1538120	50.0	43.6	
113 2-Chlorotoluene	126	12.589	12.589	0.000	96	297480	50.0	42.8	
114 1,3,5-Trimethylbenzene	105	12.647	12.647	0.000	95	1081450	50.0	43.1	
115 4-Chlorotoluene	126	12.683	12.683	0.000	98	311307	50.0	43.5	
117 tert-Butylbenzene	134	12.888	12.888	0.000	94	214799	50.0	43.9	
119 1,2,4-Trimethylbenzene	105	12.927	12.927	0.000	98	1114410	50.0	43.1	
120 sec-Butylbenzene	105	13.049	13.049	0.000	95	1334232	50.0	44.0	
121 1,3-Dichlorobenzene	146	13.152	13.152	0.000	98	624543	50.0	44.1	
122 4-Isopropyltoluene	119	13.155	13.155	0.000	97	1163016	50.0	44.0	
* 123 1,4-Dichlorobenzene-d4	152	13.203	13.203	0.000	95	478747	50.0	50.0	
124 1,4-Dichlorobenzene	146	13.223	13.223	0.000	94	635763	50.0	43.9	
125 1,2,3-Trimethylbenzene	105	13.232	13.232	0.000	98	1130854	50.0	42.9	
126 Benzyl chloride	91	13.300	13.300	0.000	99	912915	50.0	47.0	
127 1,3-Diethylbenzene	119	13.355	13.355	0.000	96	701412	50.0	44.4	
128 p-Diethylbenzene	119	13.425	13.425	0.000	94	720120	50.0	44.2	
129 n-Butylbenzene	92	13.445	13.445	0.000	98	594733	50.0	44.3	
130 1,2-Dichlorobenzene	146	13.483	13.483	0.000	98	610754	50.0	43.7	
131 o-diethylbenzene	119	13.499	13.499	0.000	96	587343	50.0	44.5	
133 1,2-Dibromo-3-Chloropropane	75	14.023	14.023	0.000	82	104641	50.0	44.7	
134 1,3,5-Trichlorobenzene	180	14.149	14.149	0.000	97	461145	50.0	44.6	
135 1,2,4-Trichlorobenzene	180	14.573	14.573	0.000	94	442817	50.0	43.8	
136 Hexachlorobutadiene	225	14.654	14.654	0.000	94	187155	50.0	44.3	
137 Naphthalene	128	14.753	14.753	0.000	97	1400819	50.0	42.3	
138 1,2,3-Trichlorobenzene	180	14.898	14.898	0.000	95	419274	50.0	43.1	
139 2-Methylnaphthalene	142	15.538	15.538	0.000	93	647026	50.0	37.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#3_00055	Amount Added:	4.00	Units: uL	
MSV_CCV_VOC#1_00056	Amount Added:	5.00	Units: uL	
MSV_CCV_2CEVE_00053	Amount Added:	5.00	Units: uL	
MSV_CCV_EE_00001	Amount Added:	5.00	Units: uL	
MSV_CCV_CYC_00001	Amount Added:	10.00	Units: uL	
MSV_CCV_GASES_00158	Amount Added:	2.50	Units: uL	
MSV_HP23_ISSS_00007	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 14-Mar-2022 10:58:38 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\LM14C01.D

Injection Date: 14-Mar-2022 09:35:30 Instrument ID: 9915 Operator ID: clm27445

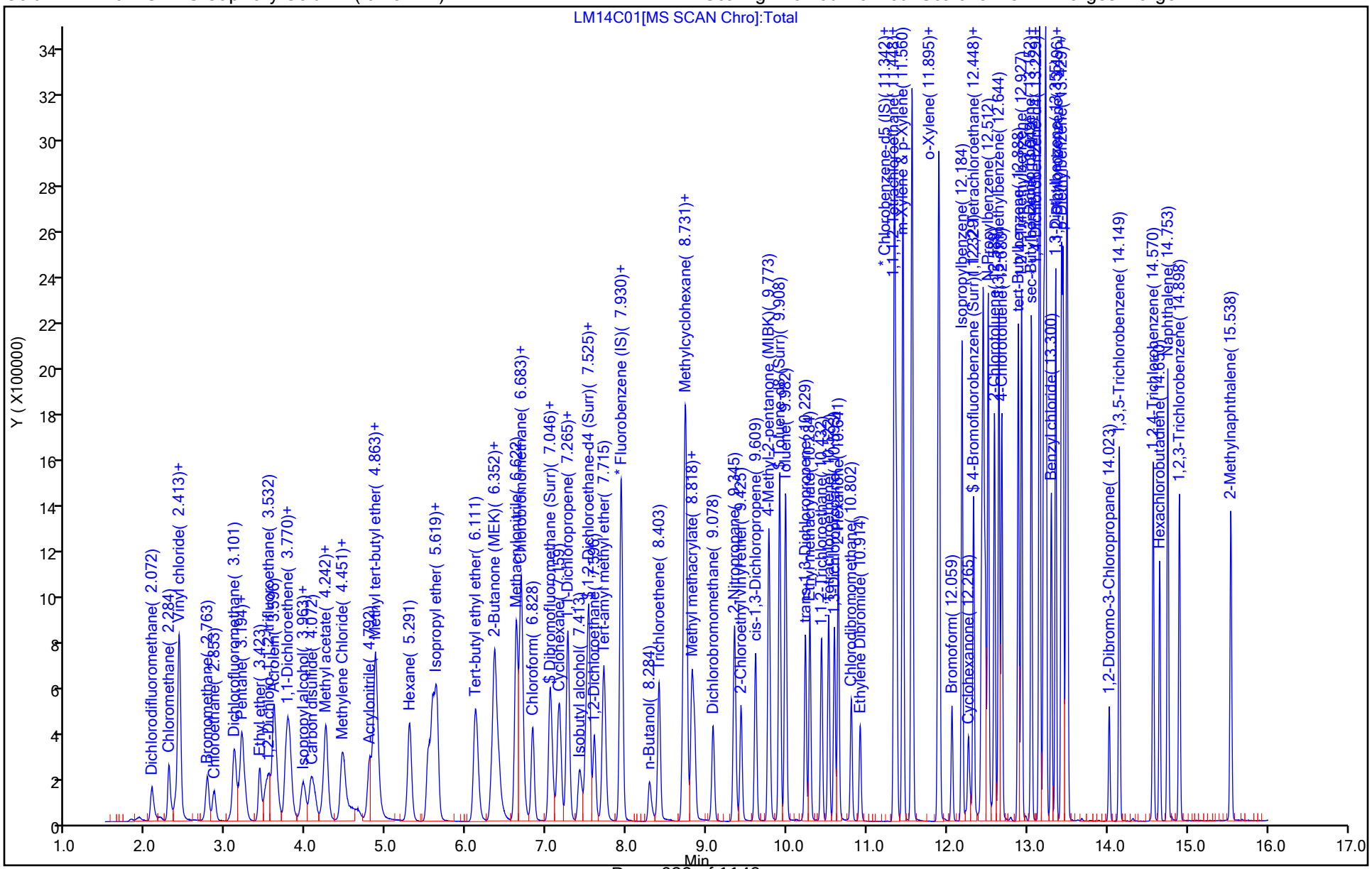
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSVoa_9915a 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

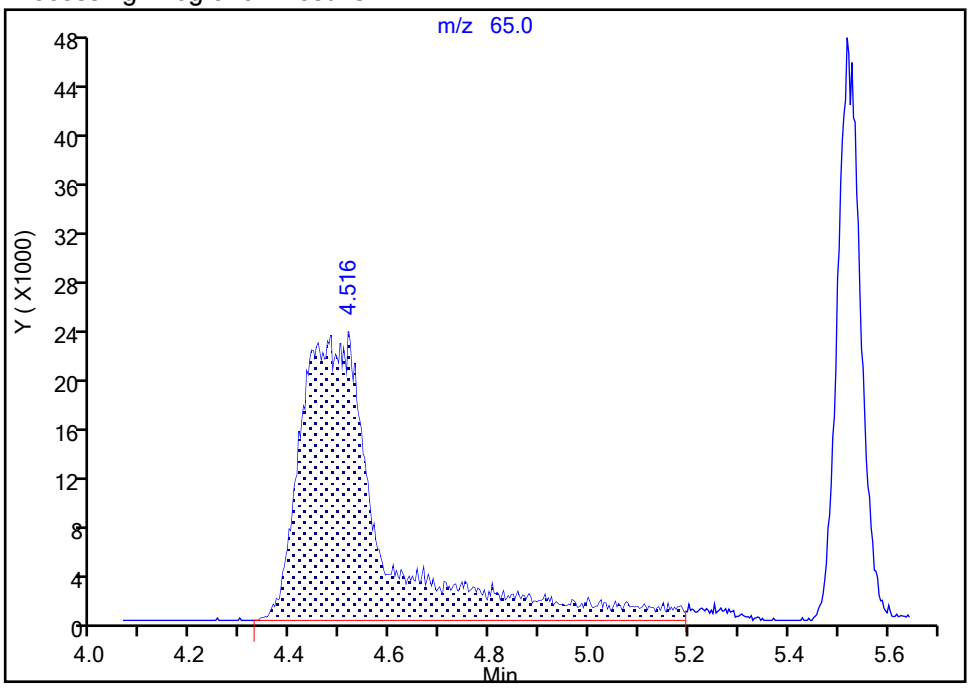
Data File: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\LM14C01.D
Injection Date: 14-Mar-2022 09:35:30 Instrument ID: 9915
Lims ID: CCVIS
Client ID:
Operator ID: clm27445 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 27 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

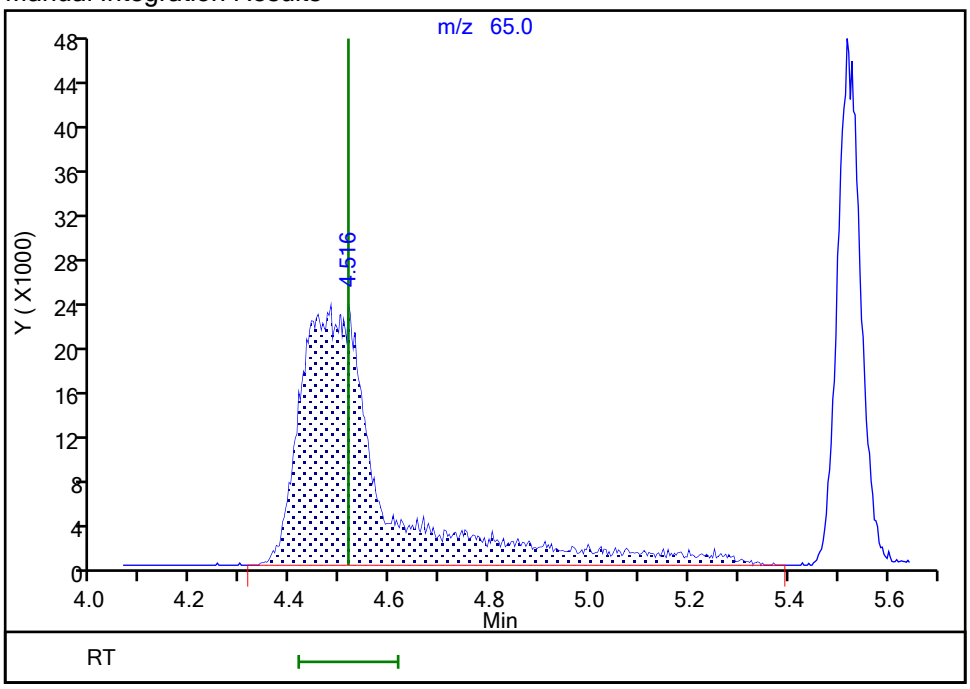
Processing Integration Results

RT: 4.52
Area: 266367
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 4.52
Area: 272115
Amount: 250.0000
Amount Units: ug/l



Reviewer: mellingerc, 14-Mar-2022 10:21:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

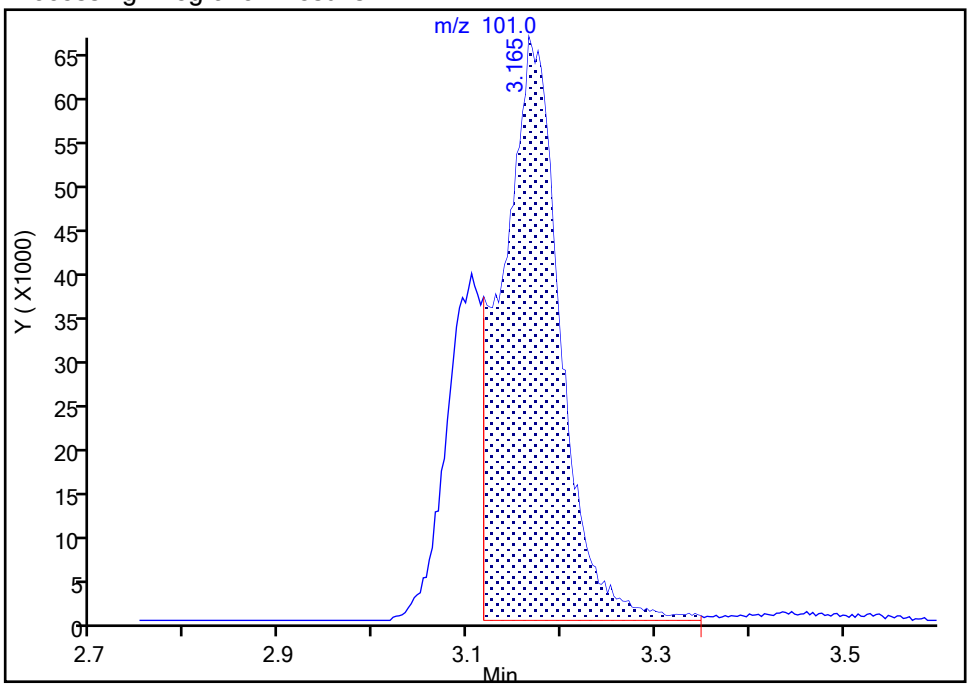
Data File: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\LM14C01.D
Injection Date: 14-Mar-2022 09:35:30 Instrument ID: 9915
Lims ID: CCVIS
Client ID:
Operator ID: clm27445 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

11 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

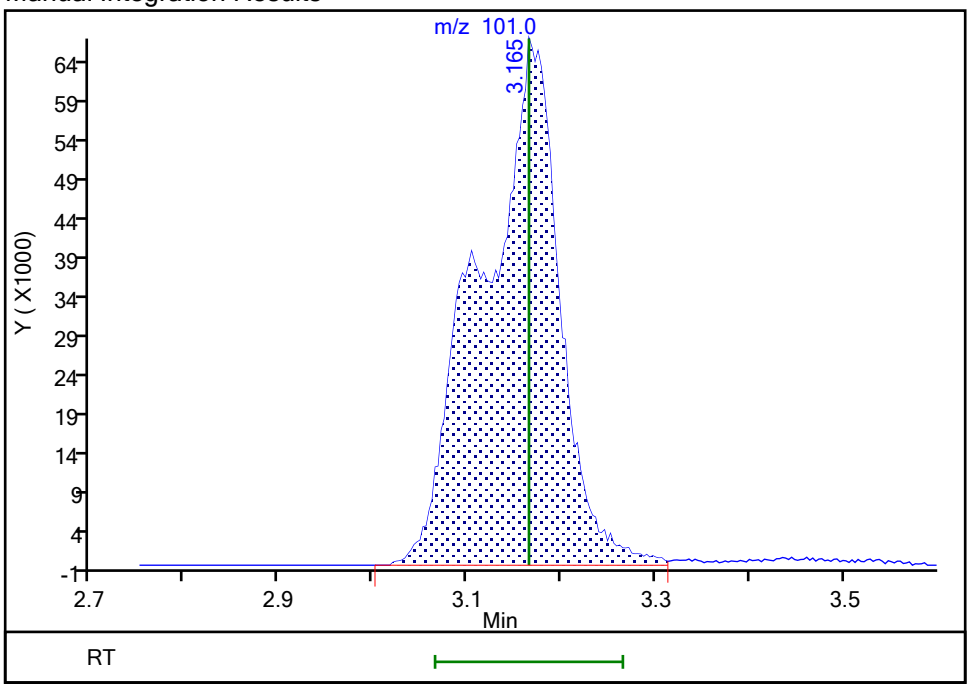
Processing Integration Results

RT: 3.17
Area: 286906
Amount: 31.388299
Amount Units: ug/l



Manual Integration Results

RT: 3.17
Area: 383386
Amount: 41.943474
Amount Units: ug/l



Reviewer: mellingerc, 14-Mar-2022 10:22:05
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

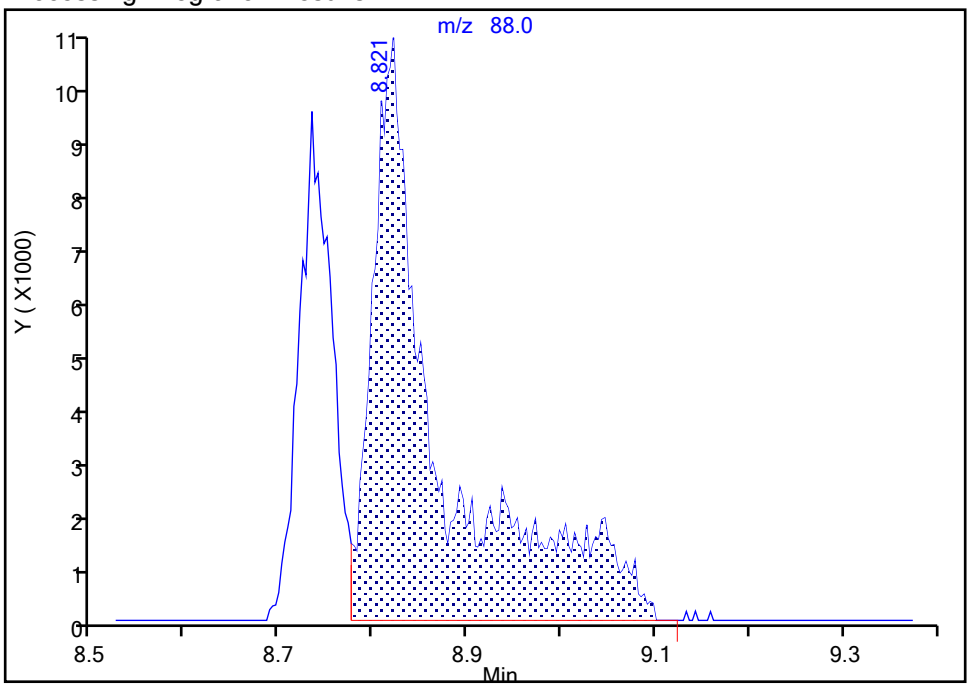
Data File:	\\chromfs\Lancaster\ChromData\9915\20220314-52368.b\LM14C01.D				
Injection Date:	14-Mar-2022 09:35:30	Instrument ID:	9915		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	clm27445	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9915a	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

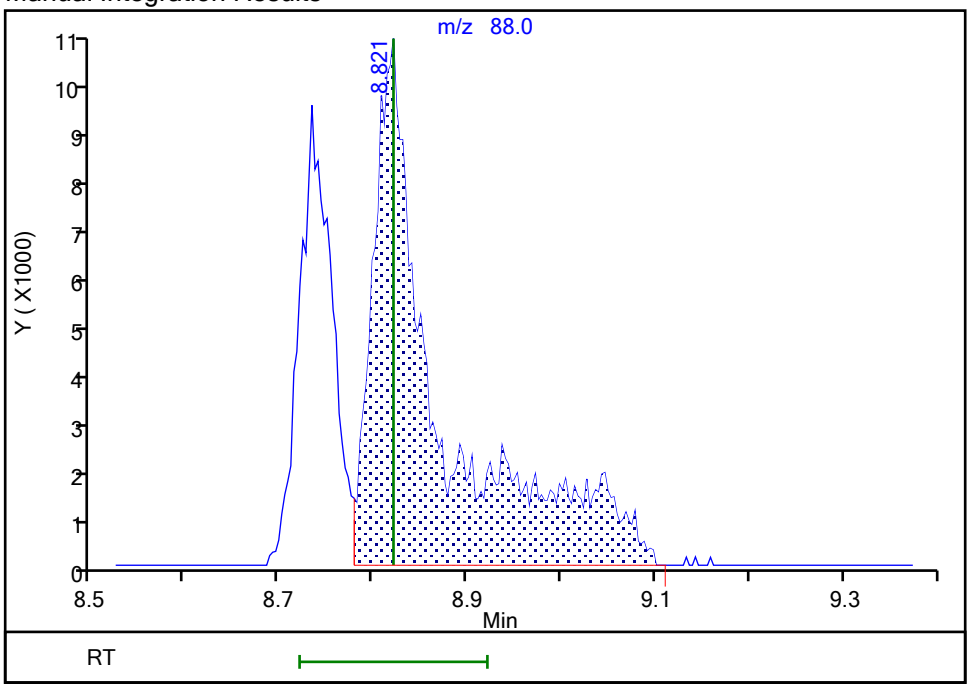
Processing Integration Results

RT: 8.82
Area: 50970
Amount: 684.0896
Amount Units: ug/l



Manual Integration Results

RT: 8.82
Area: 50707
Amount: 680.5597
Amount Units: ug/l



Reviewer: mellingerc, 14-Mar-2022 10:22:38

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29T01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 29-Nov-2021 11:53:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0045073-001
Misc. Info.: BFB
Operator ID: kas02648 Instrument ID: 9915

Method: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 29-Nov-2021 23:41:26 Calib Date: 29-Nov-2021 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: spositok Date: 29-Nov-2021 15:16:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 30 BFB	95	4.838	4.838	0.000	0	327918	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

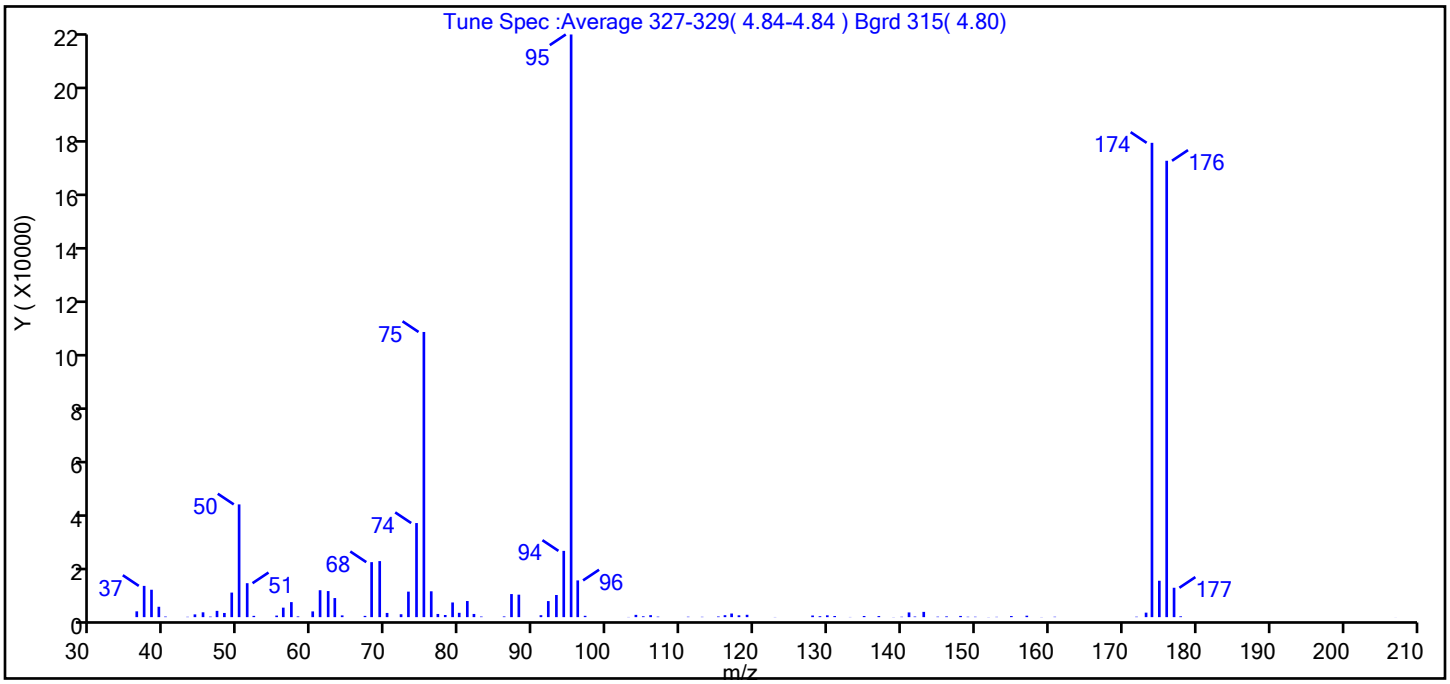
MSV_V_BFB_00006 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29T01.D
Injection Date: 29-Nov-2021 11:53:30 Instrument ID: 9915
Lims ID: bfb
Client ID:
Operator ID: kas02648 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 30 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.3
75	30 to 60% of m/z 95	48.9
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.8 (0.9)
174	50 to 120% of m/z 95	81.4
175	5 to 9% of m/z 174	6.2 (7.7)
176	Greater than 95% but less than 101% of m/z 174	78.3 (96.2)
177	5 to 9% of m/z 176	5.0 (6.4)

Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29T01.D\MSVoa_9915a.rslt\spectra.d
Injection Date: 29-Nov-2021 11:53:30
Spectrum: Tune Spec :Average 327-329(4.84-4.84) Bgrd 315(4.80)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 94

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2138	67.00	468	96.00	13500	141.00	1730
37.00	11482	68.00	20208	97.00	493	142.00	225
38.00	10068	69.00	20592	103.00	66	143.00	1933
39.00	3815	70.00	1543	104.00	839	145.00	175
40.00	214	72.00	1067	105.00	309	146.00	275
43.00	121	73.00	9374	106.00	734	148.00	442
44.00	1012	74.00	34568	107.00	177	149.00	146
45.00	1778	75.00	104776	111.00	153	150.00	152
46.00	196	76.00	9499	113.00	122	152.00	51
47.00	2307	77.00	1174	115.00	242	153.00	112
48.00	1537	78.00	786	116.00	715	155.00	399
49.00	9024	79.00	5394	117.00	1332	157.00	532
50.00	41424	80.00	1588	118.00	674	159.00	55
51.00	12475	81.00	5919	119.00	864	161.00	145
52.00	474	82.00	1175	123.00	58	172.00	162
55.00	576	83.00	216	128.00	598	173.00	1652
56.00	3491	86.00	257	129.00	337	174.00	174272
57.00	5521	87.00	8482	130.00	665	175.00	13373
58.00	262	88.00	8256	131.00	413	176.00	167680
60.00	2114	91.00	717	133.00	66	177.00	10797
61.00	9889	92.00	5900	135.00	416	178.00	297
62.00	9577	93.00	8139	137.00	390	207.00	21
63.00	7015	94.00	24352	139.00	52		
64.00	642	95.00	214080	140.00	146		

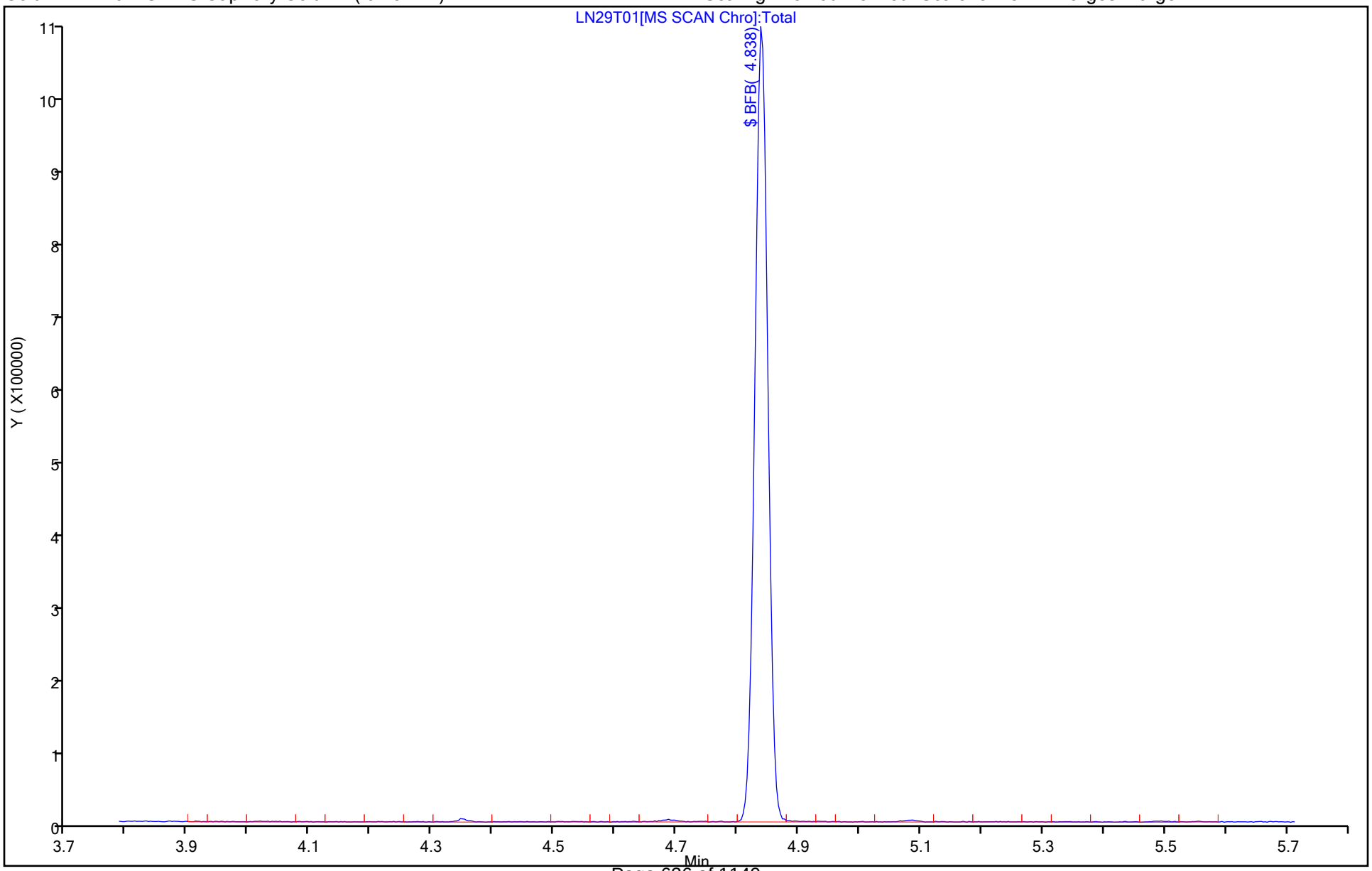
Report Date: 29-Nov-2021 23:41:26 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29T01.D

Injection Date:	29-Nov-2021 11:53:30	Instrument ID:	9915	Operator ID:	kas02648
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVoa_9915a	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\9915\20220314-52368.b\LM14T01.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	14-Mar-2022 08:47:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0052368-001				
Misc. Info.:	BFB				
Operator ID:	clm27445	Instrument ID:	9915		
Method:	\\chromfs\Lancaster\ChromData\9915\20220314-52368.b\MSVoa_9915a.m				
Limit Group:	MSV - 8260C_D				
Last Update:	14-Mar-2022 09:12:11	Calib Date:	29-Nov-2021 18:00:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1633				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 30 BFB	95	4.842	4.842	0.000	0	88402	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

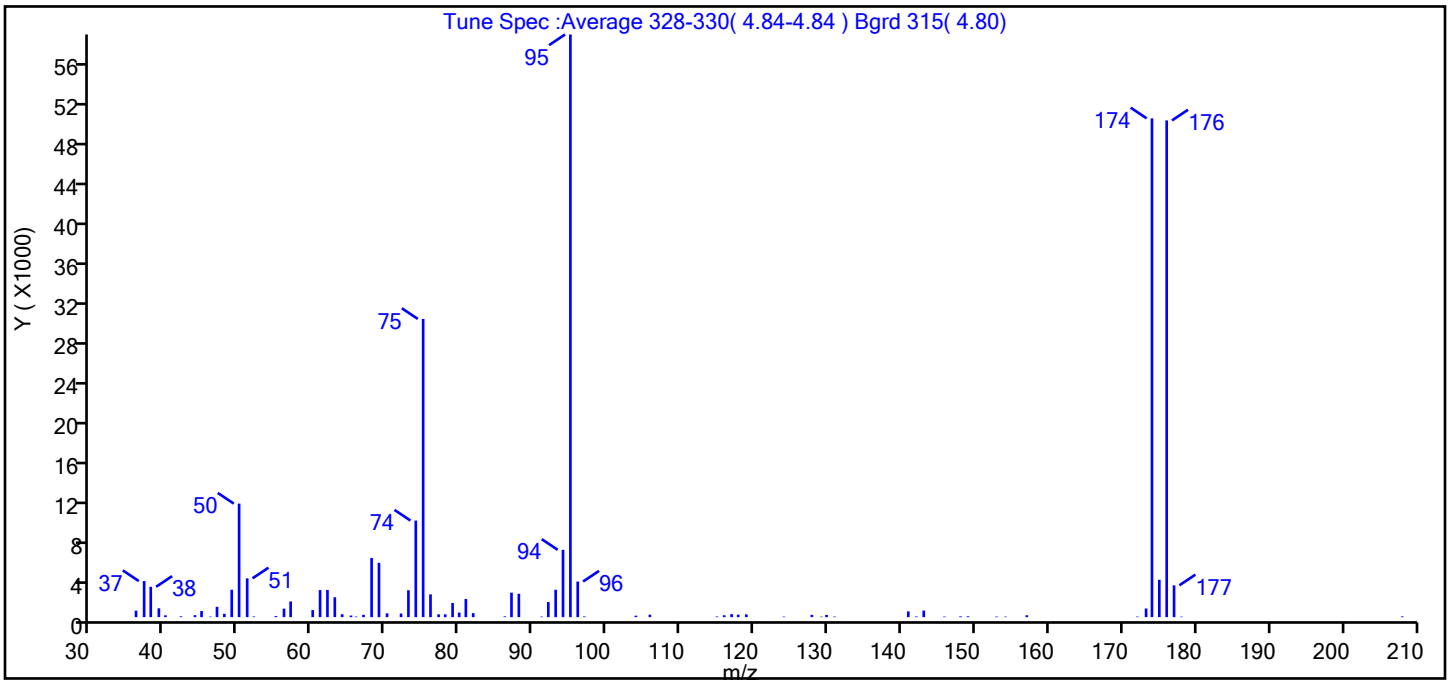
MSV_V_BFB_00007 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\LM14T01.D
Injection Date: 14-Mar-2022 08:47:30 Instrument ID: 9915
Lims ID: BFB
Client ID:
Operator ID: clm27445 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSVoa_9915a Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 30 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.5
75	30 to 60% of m/z 95	51.2
96	5 to 9% of m/z 95	6.1
173	Less than 2% of m/z 174	1.5 (1.7)
174	50 to 120% of m/z 95	85.6
175	5 to 9% of m/z 174	6.4 (7.5)
176	Greater than 95% but less than 101% of m/z 174	85.3 (99.6)
177	5 to 9% of m/z 176	5.5 (6.4)

Data File: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\LM14T01.D\MSVoa_9915a.rslt\spectra.d
Injection Date: 14-Mar-2022 08:47:30
Spectrum: Tune Spec :Average 328-330(4.84-4.84) Bgrd 315(4.80)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 79

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	646	62.00	2719	86.00	76	130.00	223
37.00	3607	63.00	1989	87.00	2449	131.00	58
38.00	3033	64.00	292	88.00	2336	141.00	574
39.00	883	65.00	161	91.00	56	142.00	68
40.00	184	66.00	58	92.00	1514	143.00	658
42.00	80	67.00	231	93.00	2741	146.00	57
44.00	197	68.00	5917	94.00	6732	148.00	78
45.00	609	69.00	5428	95.00	58256	149.00	84
46.00	50	70.00	382	96.00	3559	153.00	59
47.00	1029	72.00	362	97.00	70	154.00	52
48.00	333	73.00	2689	104.00	147	157.00	188
49.00	2740	74.00	9657	106.00	245	172.00	55
50.00	11352	75.00	29816	115.00	68	173.00	863
51.00	3881	76.00	2278	116.00	188	174.00	49872
52.00	67	77.00	281	117.00	300	175.00	3734
55.00	106	78.00	282	118.00	248	176.00	49664
56.00	850	79.00	1414	119.00	276	177.00	3183
57.00	1570	80.00	454	124.00	55	178.00	50
60.00	709	81.00	1816	128.00	230	208.00	76
61.00	2708	82.00	400	129.00	51		

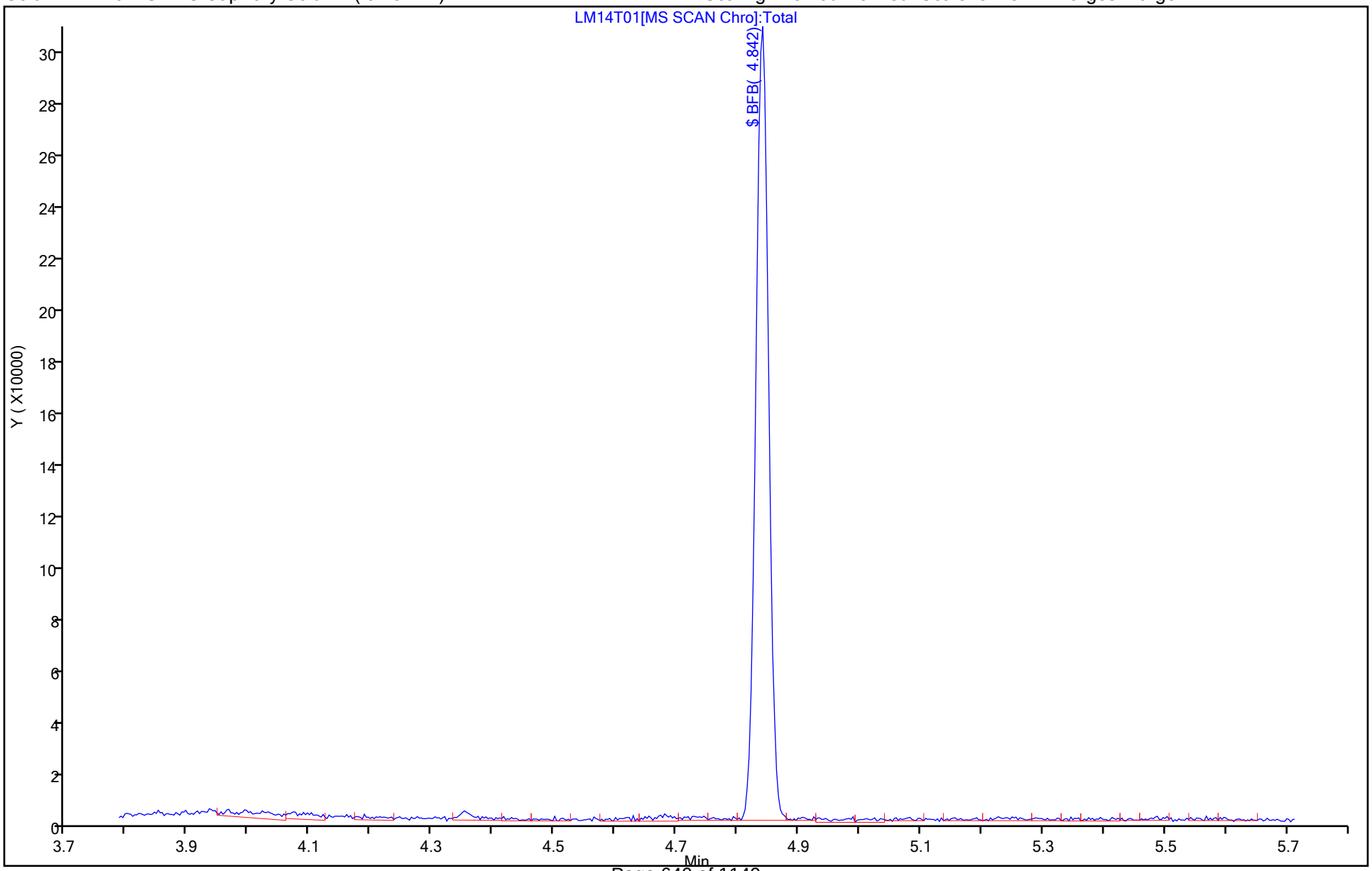
Report Date: 14-Mar-2022 09:12:11 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\LM14T01.D

Injection Date:	14-Mar-2022 08:47:30	Instrument ID:	9915	Operator ID:	clm27445
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVoa_9915a	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.: 410-74987-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-233094/7

Matrix: Water Lab File ID: LM14B01.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/14/2022 11:03

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.: 233094 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	0.30
95-63-6	1,2,4-Trimethylbenzene	ND		5.0	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.20
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
108-67-8	1,3,5-Trimethylbenzene	ND		5.0	0.30
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.30
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.30
78-93-3	2-Butanone	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.40
108-10-1	4-Methyl-2-pentanone	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.20
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		1.0	0.20
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
110-82-7	Cyclohexane	ND		5.0	1.0
124-48-1	Dibromochloromethane	ND		1.0	0.20
75-71-8	Dichlorodifluoromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
76-13-1	Freon 113	ND		10	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-233094/7

Matrix: Water Lab File ID: LM14B01.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/14/2022 11:03

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.: 233094 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	ND		5.0	0.20
79-20-9	Methyl acetate	ND		5.0	0.30
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20
108-87-2	Methylcyclohexane	ND		5.0	0.50
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30
108-88-3	Toluene	ND		1.0	0.20
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		1.0	0.20
75-01-4	Vinyl chloride	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		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\9915\20220314-52368.b\LM14B01.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 14-Mar-2022 11:03:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052368-007
Misc. Info.: MB
Operator ID: clm27445 Instrument ID: 9915

Method: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2022 09:25:07 Calib Date: 29-Nov-2021 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1633

First Level Reviewer: mellingerc Date: 14-Mar-2022 11:36:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		2.033					ND	
2 Dichlorodifluoromethane	85		2.072					ND	
3 Chlorodifluoromethane	51		2.088					ND	
4 Chloromethane	50		2.284					ND	
6 Vinyl chloride	62		2.406					ND	
5 Butadiene	39		2.416					ND	7
7 2-Chloro-1,1,1-Trifluoroethane	118		2.487					ND	
8 Bromomethane	94		2.767					ND	
9 Chloroethane	64		2.847					ND	
10 Dichlorofluoromethane	67		3.104					ND	
11 Trichlorofluoromethane	101		3.165					ND	
12 Pentane	43		3.201					ND	7
13 Ethanol	45		3.313					ND	
14 Ethyl ether	59		3.419					ND	
15 1,2-Dichloro-1,1,2-trifluoroetha	67		3.529					ND	
16 Acrolein	56		3.596					ND	7
17 1,1-Dichloroethene	96		3.754					ND	
18 Acetone	58		3.773					ND	
19 112TCTFE	101		3.792					ND	
21 Isopropyl alcohol	45		3.947					ND	
20 Iodomethane	142		3.963					ND	
22 Carbon disulfide	76		4.078					ND	
23 Acetonitrile	41		4.178					ND	
24 Methyl acetate	43		4.213					ND	
25 3-Chloro-1-propene	41		4.249					ND	
26 Methylene Chloride	84		4.451					ND	
* 27 t-Butyl alcohol-d10 (IS)	65	4.451	4.516	-0.065	48	242556	250.0	250.0	
28 2-Methyl-2-propanol	59		4.583					ND	
29 Acrylonitrile	53		4.792					ND	
32 trans-1,2-Dichloroethene	96		4.863					ND	
31 Methyl tert-butyl ether	73		4.863					ND	

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
	33 Hexane	57		5.291					ND	
	34 Vinyl acetate	43		5.516					ND	
	35 1,1-Dichloroethane	63		5.519					ND	
	36 Isopropyl ether	45		5.577					ND	
	37 2-Chloro-1,3-butadiene	53		5.631					ND	
	38 Tert-butyl ethyl ether	59		6.111					ND	
S	39 1,2-Dichloroethene, Total	100		6.155					ND	7
	40 2-Butanone (MEK)	43		6.313					ND	
	41 cis-1,2-Dichloroethene	96		6.352					ND	
	42 2,2-Dichloropropane	77		6.368					ND	
	43 Ethyl acetate	43		6.381					ND	
	44 Propionitrile	54		6.406					ND	
	45 Methacrylonitrile	67		6.625					ND	
	46 Chlorobromomethane	128		6.673					ND	
	47 Tetrahydrofuran	71		6.692					ND	
	48 Chloroform	83		6.828					ND	
$	49 Dibromofluoromethane (Surr)	113	7.043	7.040	0.003	93	268796	50.0	49.7	
	50 1,1,1-Trichloroethane	97		7.062					ND	
	51 Cyclohexane	56		7.152					ND	
	53 1,1-Dichloropropene	75		7.265					ND	
	52 Carbon tetrachloride	117		7.268					ND	
	54 Isobutyl alcohol	41		7.419					ND	
$	55 1,2-Dichloroethane-d4 (Surr)	102	7.490	7.493	-0.003	97	70435	50.0	53.0	
	56 Benzene	78		7.525					ND	
	57 1,2-Dichloroethane	62		7.596					ND	7
	58 Isopropyl acetate	43		7.602					ND	
	59 Tert-amyl methyl ether	73		7.715					ND	
	60 t-Amyl alcohol	73	7.869	7.827	0.042	1	37		NC	
*	61 Fluorobenzene (IS)	96	7.930	7.927	0.003	99	1088714	50.0	50.0	
	62 n-Heptane	43		7.934					ND	7
	63 n-Butanol	56		8.284					ND	
	64 Trichloroethene	95		8.403					ND	
	65 Methylcyclohexane	83		8.712					ND	
	67 1,2-Dichloropropane	63		8.731					ND	
	66 2-ethoxy-2-methyl butane	87		8.737					ND	
	68 Methyl methacrylate	69		8.815					ND	
	69 1,4-Dioxane	88		8.821					ND	
	70 Dibromomethane	93		8.840					ND	
	71 n-Propyl acetate	61		8.892					ND	
	72 Dichlorobromomethane	83		9.078					ND	
	73 2-Nitropropane	41		9.345					ND	
	74 2-Chloroethyl vinyl ether	63		9.425					ND	
	75 cis-1,3-Dichloropropene	75		9.609					ND	
	77 4-Methyl-2-pentanone (MIBK)	43		9.773					ND	
$	78 Toluene-d8 (Surr)	98	9.908	9.908	0.000	95	1135462	50.0	50.6	
	79 Toluene	92		9.985					ND	
S	83 1,3-Dichloropropene, Total	100		10.060					ND	7
	84 trans-1,3-Dichloropropene	75		10.233					ND	7
	85 Ethyl methacrylate	69		10.284					ND	
	86 1,1,2-Trichloroethane	97		10.432					ND	
	87 Tetrachloroethene	166		10.519					ND	
	88 1,3-Dichloropropane	76		10.593					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
89 3,4-Dichloro-1-butene	75		10.631					ND	
90 2-Hexanone	43		10.641					ND	
91 n-Butyl acetate	43		10.753					ND	
92 Chlorodibromomethane	129		10.805					ND	
93 Ethylene Dibromide	107		10.914					ND	
S 94 Xylenes, Total	106		11.245					ND	7
* 95 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	87	869365	50.0	50.0	
96 1-Chlorohexane	91	11.339	11.345	-0.006	33	1769		0.2120	
97 Chlorobenzene	112		11.368					ND	
98 1,1,1,2-Tetrachloroethane	131		11.445					ND	
99 Ethylbenzene	91		11.448					ND	7
100 m-Xylene & p-Xylene	106		11.560					ND	
101 o-Xylene	106		11.888					ND	
102 Styrene	104		11.904					ND	
103 Bromoform	173		12.059					ND	
104 Isopropylbenzene	105		12.184					ND	
105 cis-1,4-Dichloro-2-butene	88		12.229					ND	7
106 Cyclohexanone	55		12.265					ND	7
$ 107 4-Bromofluorobenzene (Surr)	95	12.329	12.329	0.000	91	420047	50.0	49.4	
108 1,1,2,2-Tetrachloroethane	83		12.429					ND	
109 Bromobenzene	156		12.448					ND	
110 trans-1,4-Dichloro-2-butene	53		12.454					ND	
111 1,2,3-Trichloropropane	110		12.474					ND	
112 N-Propylbenzene	91		12.512					ND	7
113 2-Chlorotoluene	126		12.589					ND	
114 1,3,5-Trimethylbenzene	105		12.647					ND	7
115 4-Chlorotoluene	126		12.683					ND	
116 2,3,4-Trichlorobutene	109		12.699					ND	
117 tert-Butylbenzene	134		12.888					ND	
118 Pentachloroethane	167		12.920					ND	
119 1,2,4-Trimethylbenzene	105		12.927					ND	7
120 sec-Butylbenzene	105		13.049					ND	7
121 1,3-Dichlorobenzene	146		13.152					ND	7
122 4-Isopropyltoluene	119		13.155					ND	7
* 123 1,4-Dichlorobenzene-d4	152	13.203	13.203	0.000	96	480420	50.0	50.0	
124 1,4-Dichlorobenzene	146		13.223					ND	7
125 1,2,3-Trimethylbenzene	105		13.232					ND	7
126 Benzyl chloride	91		13.300					ND	7
127 1,3-Diethylbenzene	119		13.355					ND	7
128 p-Diethylbenzene	119		13.425					ND	7
129 n-Butylbenzene	92		13.445					ND	7
130 1,2-Dichlorobenzene	146		13.483					ND	7
131 o-diethylbenzene	119		13.499					ND	7
132 Hexachloroethane	201		13.560					ND	
133 1,2-Dibromo-3-Chloropropane	75		14.023					ND	
134 1,3,5-Trichlorobenzene	180		14.149					ND	7
135 1,2,4-Trichlorobenzene	180		14.573					ND	7
136 Hexachlorobutadiene	225		14.654					ND	7
137 Naphthalene	128		14.753					ND	7
138 1,2,3-Trichlorobenzene	180		14.898					ND	7
139 2-Methylnaphthalene	142		15.538					ND	7
140 C4-C10	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
194 2,3-Dibromopropene TIC	1		0.000					ND	
193 Allyl Alcohol TIC	1		0.000					ND	
192 1,3-Dichlorobutene-2(total) TIC	1		0.000					ND	
191 2-Chloroethanol TIC	1		0.000					ND	
190 Acetonitrile TIC	1		0.000					ND	
189 Propanol TIC	1		0.000					ND	
188 Ethyl ether TIC	1		0.000					ND	
187 2-Methylbutane TIC	1		0.000					ND	
186 2-Bromoethanol TIC	1		0.000					ND	
185 Vinyl acetate (TIC)	1		0.000					ND	
184 Chloroacetaldehyde TIC	1		0.000					ND	
183 2-Picoline (TIC)	1		0.000					ND	
182 Epibromohydrin TIC	1		0.000					ND	
181 Malononitrile (TIC)	1		0.000					ND	
180 Bis(2-chloroethyl)sulfide (TIC)	1		0.000					ND	
195 Vinyl bromide TIC	1		0.000					ND	
196 Ethyl Acetate TIC	1		0.000					ND	
197 Propane TIC	1		0.000					ND	
198 2-Bromo-3-chloropropene TIC	1		0.000					ND	
214 Methanol TIC	1		0.000					ND	
213 Bromoacetone (TIC)	1		0.000					ND	
212 1-Bromopropane TIC	1		0.000					ND	
211 Paraldehyde TIC	1		0.000					ND	
210 Ethylene oxide TIC	1		0.000					ND	
209 1-Bromo-2-chloroethane TIC	1		0.000					ND	
208 1,3-Dichlorobutene-2(total)	1		0.000					ND	
215 2-Pentanone (TIC)	1		0.000					ND	
207 Pentachloroethane TIC	1		0.000					ND	
205 C6-C12	1		0.000					ND	
204 1-Bromo-2-chloroethane	1		0.000					ND	
203 Ethyl bromide	1		0.000					ND	
202 Dodecane	57		0.000					ND	
201 Diethoxymethane	1		0.000					ND	
200 Chlorodifluoromethane TIC	1		0.000					ND	
199 3-Chloro-1,2-propanediol TIC	1		0.000					ND	
179 1,3-Dichloro-2-propanol TIC	1		0.000					ND	
206 Chloral hydrate (TIC)	1		0.000					ND	
178 Bromoethane TIC	1		0.000					ND	
167 Ethyl acrylate	55		0.000					ND	
155 Butane	1		0.000					ND	
154 1,3-Divinylbenzene	1		0.000					ND	
153 Chloroacetonitrile	1		0.000					ND	
S 152 divinyl benzene	1		0.000					ND	7
151 Methylal	1		0.000					ND	
150 n-Decane	57		0.000					ND	
149 1,4-Divinylbenzene	1		0.000					ND	
148 trans-1,2,3-Trichlorobutene-2	1		0.000					ND	
147 tert-Butyl Formate	1		0.000					ND	
146 C5-C12	1		0.000					ND	
S 145 Total Diethylbenzene	1		0.000					ND	7
144 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000					ND	
143 3-chloro-1-Butene	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
142 C6-C10	1		0.000					ND	
141 Methyl acrylate	1		0.000					ND	
156 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
157 1-Chlorobutane	1		0.000					ND	
158 Propene oxide	1		0.000					ND	
159 1,2,3,4-Diepoxybutane (TIC)	1		0.000					ND	
175 Pentafluorobenzene TIC	1		0.000					ND	
174 Propargyl alcohol TIC	1		0.000					ND	
173 Monochloroacetic acid TIC	1		0.000					ND	
172 Epichlorohydrin TIC	1		0.000					ND	
171 1-Chlorobutane TIC	1		0.000					ND	
170 Ethanol TIC	1		0.000					ND	
169 o-toluidine TIC	1		0.000					ND	
176 Nitrobenzene TIC	1		0.000					ND	
168 n-butyl Acetate TIC	1		0.000					ND	
166 beta-Propiolactone TIC	1		0.000					ND	
165 n-Propylamine (TIC)	1		0.000					ND	
164 1-Methyl-2-pyrrilidinone TIC	1		0.000					ND	
163 2,3-Dichloro-1,3-butadiene	1		0.000					ND	
162 Propene oxide TIC	1		0.000					ND	
161 2,3-Dibromo-1-propanol TIC	1		0.000					ND	
160 N-Nitrosodi-n-butylamine TIC	1		0.000					ND	
177 cis-1,2,3-Trichlorobutene-2	1		0.000					ND	
216 C4-C12	1		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Reagents:

MSV_HP23_ISSS_00007 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 14-Mar-2022 11:37:04 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\LM14B01.D

Injection Date: 14-Mar-2022 11:03:30 Instrument ID: 9915 Operator ID: clm27445

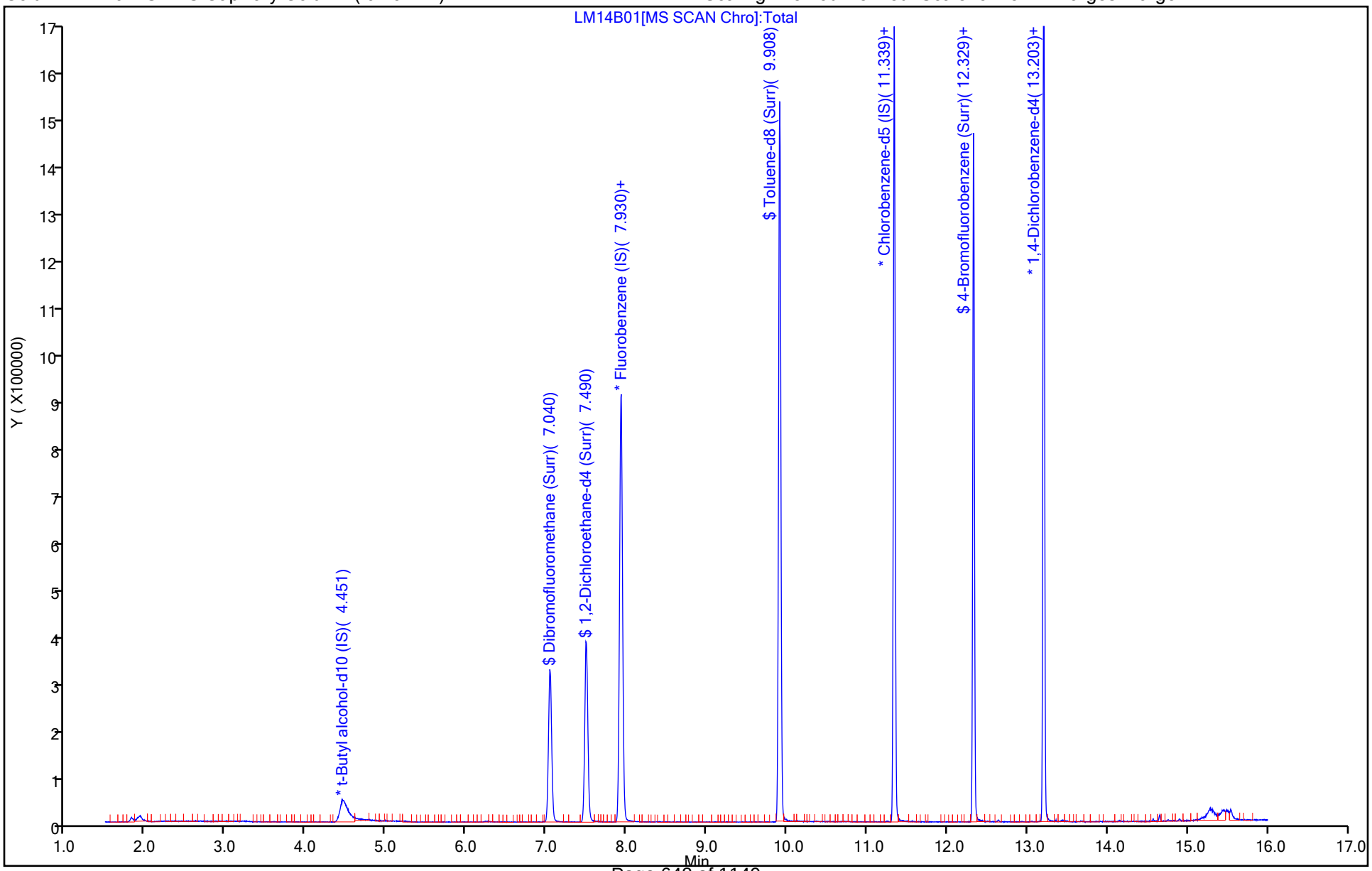
Lims ID: MB Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: MSVoa_9915a 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\9915\20220314-52368.b\LM14B01.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 14-Mar-2022 11:03:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052368-007
Misc. Info.: MB
Operator ID: clm27445 Instrument ID: 9915

Method: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2022 09:25:07 Calib Date: 29-Nov-2021 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1633

First Level Reviewer: mellingerc Date: 14-Mar-2022 11:36:41

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	50.0	49.7	99.31
$ 55 1,2-Dichloroethane-d4 (Surr)	50.0	53.0	105.94
$ 78 Toluene-d8 (Surr)	50.0	50.6	101.25
$ 107 4-Bromofluorobenzene (Surr)	50.0	49.4	98.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-233094/4

Matrix: Water Lab File ID: LM14L01.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/14/2022 09:57

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.: 233094 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	18.3		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	18.7		1.0	0.30
79-00-5	1,1,2-Trichloroethane	19.5		1.0	0.30
75-34-3	1,1-Dichloroethane	19.8		1.0	0.30
75-35-4	1,1-Dichloroethene	19.0		1.0	0.30
120-82-1	1,2,4-Trichlorobenzene	19.2		5.0	0.30
95-63-6	1,2,4-Trimethylbenzene	18.1		5.0	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	17.9		5.0	0.30
106-93-4	1,2-Dibromoethane	19.3		1.0	0.20
95-50-1	1,2-Dichlorobenzene	18.5		5.0	0.20
107-06-2	1,2-Dichloroethane	19.8		1.0	0.30
78-87-5	1,2-Dichloropropane	20.2		1.0	0.30
108-67-8	1,3,5-Trimethylbenzene	18.1		5.0	0.30
541-73-1	1,3-Dichlorobenzene	18.7		5.0	0.30
106-46-7	1,4-Dichlorobenzene	19.1		5.0	0.30
78-93-3	2-Butanone	325		10	0.50
591-78-6	2-Hexanone	327		10	0.40
108-10-1	4-Methyl-2-pentanone	314		10	0.50
67-64-1	Acetone	223		20	0.70
71-43-2	Benzene	19.7		1.0	0.30
75-27-4	Bromodichloromethane	19.6		1.0	0.20
75-25-2	Bromoform	20.5		4.0	1.0
74-83-9	Bromomethane	16.2		1.0	0.30
75-15-0	Carbon disulfide	22.7		5.0	0.30
56-23-5	Carbon tetrachloride	18.2		1.0	0.30
108-90-7	Chlorobenzene	19.1		1.0	0.30
75-00-3	Chloroethane	17.3		1.0	0.20
67-66-3	Chloroform	19.1		1.0	0.30
74-87-3	Chloromethane	17.8		1.0	0.20
156-59-2	cis-1,2-Dichloroethene	19.5		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	20.0		1.0	0.20
110-82-7	Cyclohexane	19.4		5.0	1.0
124-48-1	Dibromochloromethane	19.6		1.0	0.20
75-71-8	Dichlorodifluoromethane	14.1		1.0	0.20
100-41-4	Ethylbenzene	19.2		1.0	0.40
76-13-1	Freon 113	18.4		10	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-233094/4

Matrix: Water Lab File ID: LM14L01.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/14/2022 09:57

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.: 233094 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	19.2		5.0	0.20
79-20-9	Methyl acetate	27.2		5.0	0.30
1634-04-4	Methyl tertiary butyl ether	20.8		1.0	0.20
108-87-2	Methylcyclohexane	18.2		5.0	0.50
75-09-2	Methylene Chloride	19.5		1.0	0.30
100-42-5	Styrene	19.1		5.0	0.30
127-18-4	Tetrachloroethene	19.6		1.0	0.30
108-88-3	Toluene	19.0		1.0	0.20
156-60-5	trans-1,2-Dichloroethene	18.7		1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	20.4		1.0	0.20
79-01-6	Trichloroethene	18.8		1.0	0.30
75-69-4	Trichlorofluoromethane	16.1		1.0	0.20
75-01-4	Vinyl chloride	16.3		1.0	0.20
1330-20-7	Xylenes, Total	57.2		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		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\9915\20220314-52368.b\LM14L01.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 14-Mar-2022 09:57:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052368-004
Misc. Info.: LCS
Operator ID: clm27445 Instrument ID: 9915

Method: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2022 11:14:21 Calib Date: 29-Nov-2021 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1633

First Level Reviewer: mellingerc Date: 14-Mar-2022 11:09:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.075	2.072	0.003	99	92097	20.0	14.1	
4 Chloromethane	50	2.284	2.284	0.000	99	133342	20.0	17.8	
6 Vinyl chloride	62	2.400	2.406	-0.006	97	121430	20.0	16.3	
5 Butadiene	39	2.413	2.416	-0.003	97	271915	20.0	35.0	
8 Bromomethane	94	2.770	2.767	0.003	91	81209	20.0	16.2	
9 Chloroethane	64	2.847	2.847	0.000	99	71442	20.0	17.3	
10 Dichlorofluoromethane	67	3.101	3.104	-0.003	97	183671	20.0	18.5	
11 Trichlorofluoromethane	101	3.172	3.165	0.007	97	143024	20.0	16.1	
12 Pentane	43	3.197	3.201	-0.004	98	193367	20.0	20.7	
14 Ethyl ether	59	3.419	3.419	0.000	96	55329	19.9	11.2	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.516	3.529	-0.013	94	120268	20.0	18.9	
16 Acrolein	56	3.593	3.596	-0.003	99	294954	150.0	131.9	
17 1,1-Dichloroethene	96	3.750	3.754	-0.004	95	88631	20.0	19.0	
18 Acetone	58	3.773	3.773	0.000	100	209201	250.0	222.9	
19 112TCTFE	101	3.792	3.792	0.000	93	83925	20.0	18.4	
21 Isopropyl alcohol	45	3.950	3.947	0.003	49	73019	150.0	130.4	
20 Iodomethane	142	3.956	3.963	-0.007	98	162931	20.0	20.2	
22 Carbon disulfide	76	4.066	4.078	-0.012	100	327730	20.0	22.7	
24 Methyl acetate	43	4.213	4.213	0.000	99	170025	20.0	27.2	
25 3-Chloro-1-propene	41	4.246	4.249	-0.003	90	200156	20.0	22.8	
26 Methylene Chloride	84	4.451	4.451	0.000	98	107140	20.0	19.5	
* 27 t-Butyl alcohol-d10 (IS)	65	4.445	4.516	-0.071	59	268243	250.0	250.0	
28 2-Methyl-2-propanol	59	4.574	4.583	-0.009	98	171152	200.0	166.4	
29 Acrylonitrile	53	4.792	4.792	0.000	99	365253	100.0	117.7	
32 trans-1,2-Dichloroethene	96	4.863	4.863	0.000	95	100117	20.0	18.7	
31 Methyl tert-butyl ether	73	4.863	4.863	0.000	93	356269	20.0	20.8	
33 Hexane	57	5.287	5.291	-0.004	97	162625	20.0	20.7	
35 1,1-Dichloroethane	63	5.522	5.519	0.003	96	195059	20.0	19.8	
36 Isopropyl ether	45	5.580	5.577	0.003	95	406935	20.0	22.4	
37 2-Chloro-1,3-butadiene	53	5.628	5.631	-0.003	93	180544	20.0	21.1	
38 Tert-butyl ethyl ether	59	6.114	6.111	0.004	99	367422	20.0	20.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Butanone (MEK)	43	6.316	6.313	0.003	99	1332082	250.0	324.5	
41 cis-1,2-Dichloroethene	96	6.352	6.352	0.000	84	113030	20.0	19.5	
42 2,2-Dichloropropane	77	6.361	6.368	-0.007	88	157926	20.0	19.4	
44 Propionitrile	54	6.400	6.406	-0.006	99	208702	150.0	141.0	
45 Methacrylonitrile	67	6.625	6.625	0.000	95	553990	150.0	173.0	
46 Chlorobromomethane	128	6.673	6.673	0.000	92	57685	20.0	19.7	
47 Tetrahydrofuran	71	6.689	6.692	-0.003	94	118208	100.0	88.4	
48 Chloroform	83	6.821	6.828	-0.007	94	184661	20.0	19.1	
$ 49 Dibromofluoromethane (Surr)	113	7.037	7.040	-0.004	93	252705	50.0	49.2	
50 1,1,1-Trichloroethane	97	7.053	7.062	-0.009	97	154578	20.0	18.3	
51 Cyclohexane	56	7.159	7.152	0.007	95	187118	20.0	19.4	
53 1,1-Dichloropropene	75	7.265	7.265	0.000	94	147898	20.0	19.4	
52 Carbon tetrachloride	117	7.262	7.268	-0.006	67	125929	20.0	18.2	
54 Isobutyl alcohol	41	7.413	7.419	-0.006	93	189467	500.0	529.7	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.490	7.493	-0.003	99	65154	50.0	51.7	
56 Benzene	78	7.522	7.525	-0.003	97	437722	20.0	19.7	
57 1,2-Dichloroethane	62	7.596	7.596	0.000	97	162975	20.0	19.8	
59 Tert-amyl methyl ether	73	7.709	7.715	-0.007	97	341422	20.0	19.9	
* 61 Fluorobenzene (IS)	96	7.924	7.927	-0.003	99	1032859	50.0	50.0	
62 n-Heptane	43	7.934	7.934	0.000	94	182744	20.0	21.3	
63 n-Butanol	56	8.284	8.284	0.000	93	274341	1000.0	904.4	
64 Trichloroethene	95	8.406	8.403	0.003	98	107528	20.0	18.8	
65 Methylcyclohexane	83	8.712	8.712	0.000	94	177164	20.0	18.2	
67 1,2-Dichloropropane	63	8.731	8.731	0.000	74	120955	20.0	20.2	
66 2-ethoxy-2-methyl butane	87	8.741	8.737	0.004	88	163820	20.0	19.6	
68 Methyl methacrylate	69	8.811	8.815	-0.004	95	108456	20.0	20.9	
69 1,4-Dioxane	88	8.815	8.821	-0.006	41	44972	500.0	612.3	
70 Dibromomethane	93	8.847	8.840	0.007	96	73276	20.0	18.9	
72 Dichlorobromomethane	83	9.078	9.078	0.000	99	140392	20.0	19.6	
73 2-Nitropropane	41	9.345	9.345	0.000	99	49825	20.0	16.4	
74 2-Chloroethyl vinyl ether	63	9.425	9.425	0.000	92	93921	20.0	21.2	
75 cis-1,3-Dichloropropene	75	9.609	9.609	0.000	93	186923	20.0	20.0	
77 4-Methyl-2-pentanone (MIBK)	43	9.773	9.773	0.000	99	2695103	250.0	313.8	
$ 78 Toluene-d8 (Surr)	98	9.908	9.908	0.000	94	1076921	50.0	50.6	
79 Toluene	92	9.979	9.985	-0.007	97	270924	20.0	19.0	
84 trans-1,3-Dichloropropene	75	10.233	10.233	0.000	97	180682	20.0	20.4	
85 Ethyl methacrylate	69	10.287	10.284	0.003	92	187550	20.0	20.5	
86 1,1,2-Trichloroethane	97	10.432	10.432	0.000	91	106064	20.0	19.5	
87 Tetrachloroethene	166	10.519	10.519	0.000	98	114333	20.0	19.6	
88 1,3-Dichloropropane	76	10.593	10.593	0.000	95	187505	20.0	20.1	
90 2-Hexanone	43	10.641	10.641	0.000	99	2062613	250.0	327.0	
92 Chlorodibromomethane	129	10.805	10.805	0.000	90	112540	20.0	19.6	
93 Ethylene Dibromide	107	10.911	10.914	-0.003	98	115645	20.0	19.3	
* 95 Chlorobenzene-d5 (IS)	117	11.339	11.339	0.000	88	824538	50.0	50.0	
96 1-Chlorohexane	91	11.345	11.345	0.000	94	144031	20.0	18.2	
97 Chlorobenzene	112	11.368	11.368	0.000	94	298810	20.0	19.1	
98 1,1,1,2-Tetrachloroethane	131	11.441	11.445	-0.004	94	99890	20.0	18.3	
99 Ethylbenzene	91	11.448	11.448	0.000	99	534329	20.0	19.2	
100 m-Xylene & p-Xylene	106	11.560	11.560	0.000	99	407899	40.0	38.5	
101 o-Xylene	106	11.888	11.888	0.000	97	197896	20.0	18.7	
102 Styrene	104	11.904	11.904	0.000	95	338358	20.0	19.1	
103 Bromoform	173	12.059	12.059	0.000	96	86222	20.0	20.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 Isopropylbenzene	105	12.184	12.184	0.000	96	518369	20.0	19.2	
106 Cyclohexanone	55	12.265	12.265	0.000	96	163883	500.0	476.9	
$ 107 4-Bromofluorobenzene (Surr)	95	12.329	12.329	0.000	91	403812	50.0	50.0	
108 1,1,2,2-Tetrachloroethane	83	12.429	12.429	0.000	94	177586	20.0	18.7	
109 Bromobenzene	156	12.445	12.448	-0.003	95	135771	20.0	19.1	
110 trans-1,4-Dichloro-2-butene	53	12.454	12.454	0.000	95	180305	100.0	58.2	
111 1,2,3-Trichloropropane	110	12.474	12.474	0.000	88	50938	20.0	18.2	
112 N-Propylbenzene	91	12.512	12.512	0.000	99	623998	20.0	18.4	
113 2-Chlorotoluene	126	12.589	12.589	0.000	96	120987	20.0	18.1	
114 1,3,5-Trimethylbenzene	105	12.647	12.647	0.000	95	436001	20.0	18.1	
115 4-Chlorotoluene	126	12.679	12.683	-0.004	98	126115	20.0	18.4	
117 tert-Butylbenzene	134	12.885	12.888	-0.003	94	85756	20.0	18.3	
119 1,2,4-Trimethylbenzene	105	12.927	12.927	0.000	98	449022	20.0	18.1	
120 sec-Butylbenzene	105	13.049	13.049	0.000	94	542538	20.0	18.6	
121 1,3-Dichlorobenzene	146	13.149	13.152	-0.003	98	255057	20.0	18.7	
122 4-Isopropyltoluene	119	13.155	13.155	0.000	97	471804	20.0	18.6	
* 123 1,4-Dichlorobenzene-d4	152	13.207	13.203	0.004	95	459606	50.0	50.0	
124 1,4-Dichlorobenzene	146	13.223	13.223	0.000	95	266308	20.0	19.1	
125 1,2,3-Trimethylbenzene	105	13.232	13.232	0.000	99	465131	20.0	18.4	
126 Benzyl chloride	91	13.300	13.300	0.000	99	358093	20.0	19.2	
127 1,3-Diethylbenzene	119	13.355	13.355	0.000	96	283011	20.0	18.6	
128 p-Diethylbenzene	119	13.425	13.425	0.000	94	296677	20.0	18.9	
129 n-Butylbenzene	92	13.448	13.445	0.003	98	237183	20.0	18.4	
130 1,2-Dichlorobenzene	146	13.483	13.483	0.000	97	248167	20.0	18.5	
131 o-diethylbenzene	119	13.499	13.499	0.000	96	239336	20.0	18.9	
133 1,2-Dibromo-3-Chloropropane	75	14.023	14.023	0.000	82	40082	20.0	17.9	
134 1,3,5-Trichlorobenzene	180	14.146	14.149	-0.003	98	193639	20.0	19.5	
135 1,2,4-Trichlorobenzene	180	14.573	14.573	0.000	94	185743	20.0	19.2	
136 Hexachlorobutadiene	225	14.654	14.654	0.000	97	80378	20.0	19.8	
137 Naphthalene	128	14.753	14.753	0.000	97	574065	20.0	18.1	
138 1,2,3-Trichlorobenzene	180	14.898	14.898	0.000	93	177906	20.0	19.0	
139 2-Methylnaphthalene	142	15.538	15.538	0.000	92	340961	20.0	20.4	

QC Flag Legend

Processing Flags

Reagents:

MSV_LCS_ACROL_00048	Amount Added: 50.00	Units: uL	
MSV_LCS_2CEVE_00050	Amount Added: 50.00	Units: uL	
MSV_LCS_VOC#1_00044	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00076	Amount Added: 50.00	Units: uL	
MSV_LCS_CYC_00001	Amount Added: 50.00	Units: uL	
MSV_LCS_EE_00002	Amount Added: 50.00	Units: uL	
MSV_HP23_ISSS_00007	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 14-Mar-2022 11:14:45 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\LM14L01.D

Injection Date: 14-Mar-2022 09:57:30 Instrument ID: 9915 Operator ID: clm27445

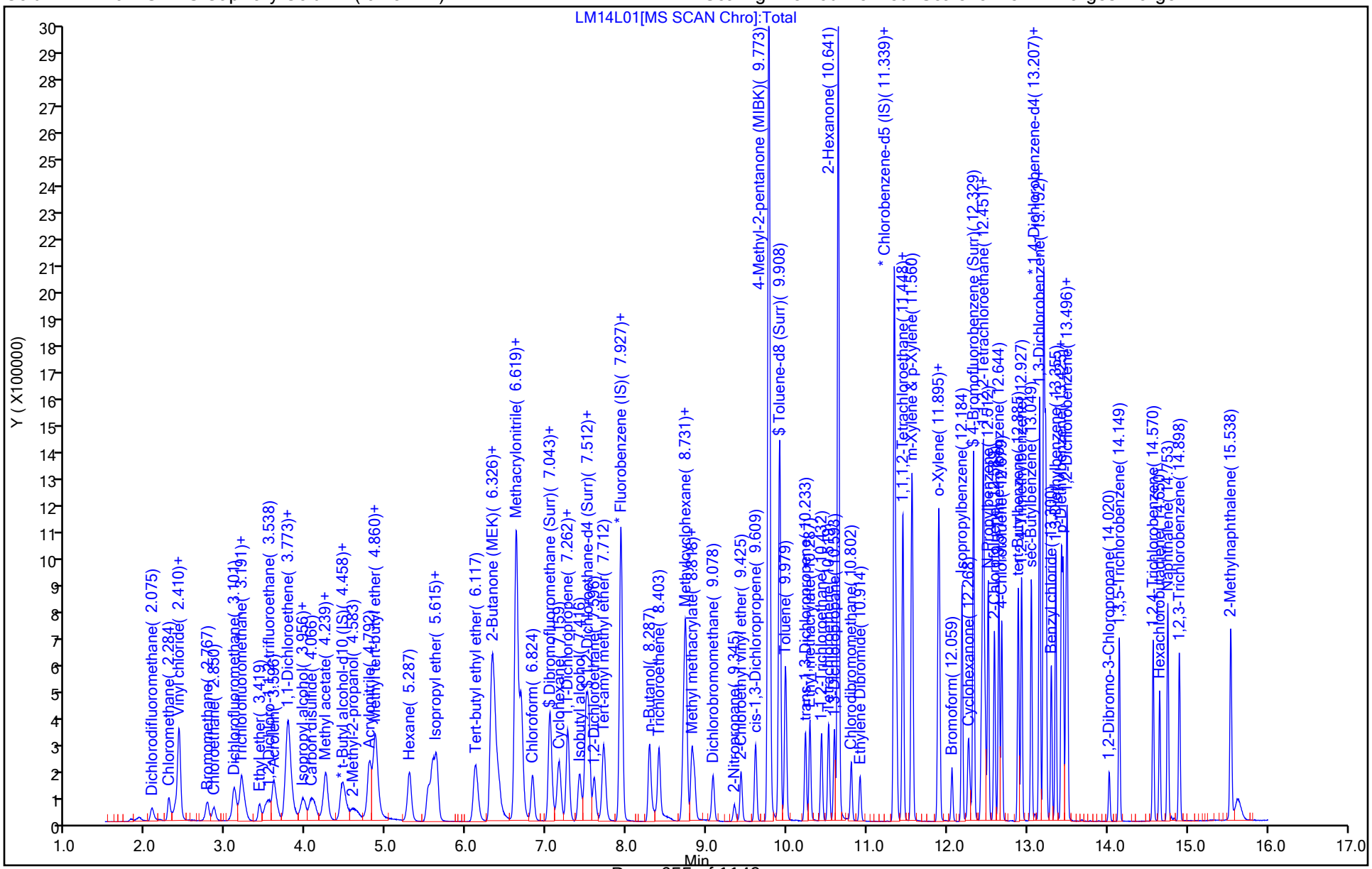
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: MSVoa_9915a 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\9915\20220314-52368.b\LM14L01.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 14-Mar-2022 09:57:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052368-004
Misc. Info.: LCS
Operator ID: clm27445 Instrument ID: 9915

Method: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2022 11:14:21 Calib Date: 29-Nov-2021 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1633

First Level Reviewer: mellingerc Date: 14-Mar-2022 11:09:37

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	50.0	49.2	98.41
$ 55 1,2-Dichloroethane-d4 (Surr)	50.0	51.7	103.30
$ 78 Toluene-d8 (Surr)	50.0	50.6	101.25
$ 107 4-Bromofluorobenzene (Surr)	50.0	50.0	100.09

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-233094/5

Matrix: Water Lab File ID: LM14L02.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/14/2022 10:19

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.: 233094 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	18.1		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	18.7		1.0	0.30
79-00-5	1,1,2-Trichloroethane	19.1		1.0	0.30
75-34-3	1,1-Dichloroethane	19.9		1.0	0.30
75-35-4	1,1-Dichloroethene	19.3		1.0	0.30
120-82-1	1,2,4-Trichlorobenzene	18.6		5.0	0.30
95-63-6	1,2,4-Trimethylbenzene	18.2		5.0	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	17.7		5.0	0.30
106-93-4	1,2-Dibromoethane	18.6		1.0	0.20
95-50-1	1,2-Dichlorobenzene	18.7		5.0	0.20
107-06-2	1,2-Dichloroethane	19.7		1.0	0.30
78-87-5	1,2-Dichloropropane	20.5		1.0	0.30
108-67-8	1,3,5-Trimethylbenzene	18.3		5.0	0.30
541-73-1	1,3-Dichlorobenzene	18.6		5.0	0.30
106-46-7	1,4-Dichlorobenzene	18.9		5.0	0.30
78-93-3	2-Butanone	315		10	0.50
591-78-6	2-Hexanone	317		10	0.40
108-10-1	4-Methyl-2-pentanone	310		10	0.50
67-64-1	Acetone	218		20	0.70
71-43-2	Benzene	19.8		1.0	0.30
75-27-4	Bromodichloromethane	19.4		1.0	0.20
75-25-2	Bromoform	19.8		4.0	1.0
74-83-9	Bromomethane	16.2		1.0	0.30
75-15-0	Carbon disulfide	22.7		5.0	0.30
56-23-5	Carbon tetrachloride	18.2		1.0	0.30
108-90-7	Chlorobenzene	19.1		1.0	0.30
75-00-3	Chloroethane	17.7		1.0	0.20
67-66-3	Chloroform	18.9		1.0	0.30
74-87-3	Chloromethane	18.2		1.0	0.20
156-59-2	cis-1,2-Dichloroethene	19.9		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	20.0		1.0	0.20
110-82-7	Cyclohexane	19.6		5.0	1.0
124-48-1	Dibromochloromethane	18.8		1.0	0.20
75-71-8	Dichlorodifluoromethane	14.9		1.0	0.20
100-41-4	Ethylbenzene	18.9		1.0	0.40
76-13-1	Freon 113	18.6		10	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-233094/5

Matrix: Water Lab File ID: LM14L02.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/14/2022 10:19

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.: 233094 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	18.9		5.0	0.20
79-20-9	Methyl acetate	25.8		5.0	0.30
1634-04-4	Methyl tertiary butyl ether	20.7		1.0	0.20
108-87-2	Methylcyclohexane	19.0		5.0	0.50
75-09-2	Methylene Chloride	19.6		1.0	0.30
100-42-5	Styrene	18.7		5.0	0.30
127-18-4	Tetrachloroethene	19.1		1.0	0.30
108-88-3	Toluene	18.8		1.0	0.20
156-60-5	trans-1,2-Dichloroethene	18.7		1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	20.1		1.0	0.20
79-01-6	Trichloroethene	18.9		1.0	0.30
75-69-4	Trichlorofluoromethane	16.0		1.0	0.20
75-01-4	Vinyl chloride	16.6		1.0	0.20
1330-20-7	Xylenes, Total	56.4		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		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\9915\20220314-52368.b\LM14L02.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 14-Mar-2022 10:19:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052368-005
Misc. Info.: LCSD
Operator ID: clm27445 Instrument ID: 9915

Method: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2022 11:14:21 Calib Date: 29-Nov-2021 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1633

First Level Reviewer: mellingerc Date: 14-Mar-2022 11:11:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.075	2.072	0.003	99	99147	20.0	14.9	
4 Chloromethane	50	2.284	2.284	0.000	99	138798	20.0	18.2	
6 Vinyl chloride	62	2.406	2.406	0.000	90	126203	20.0	16.6	
5 Butadiene	39	2.410	2.416	-0.006	96	260522	20.0	32.9	
8 Bromomethane	94	2.760	2.767	-0.007	91	82824	20.0	16.2	
9 Chloroethane	64	2.837	2.847	-0.010	99	74539	20.0	17.7	
10 Dichlorofluoromethane	67	3.094	3.104	-0.010	97	188115	20.0	18.6	
11 Trichlorofluoromethane	101	3.165	3.165	0.000	96	145304	20.0	16.0	
12 Pentane	43	3.197	3.201	-0.004	97	198602	20.0	20.9	
14 Ethyl ether	59	3.416	3.419	-0.003	95	57262	19.9	11.3	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.525	3.529	-0.004	94	123256	20.0	19.1	
16 Acrolein	56	3.593	3.596	-0.003	99	292110	150.0	122.6	
17 1,1-Dichloroethene	96	3.741	3.754	-0.013	95	91584	20.0	19.3	
18 Acetone	58	3.766	3.773	-0.007	99	218343	250.0	218.3	
19 112TCTFE	101	3.786	3.792	-0.006	94	86305	20.0	18.6	
21 Isopropyl alcohol	45	3.953	3.947	0.006	44	73248	150.0	122.7	
20 Iodomethane	142	3.963	3.963	0.000	98	166822	20.0	20.2	
22 Carbon disulfide	76	4.062	4.078	-0.016	100	333129	20.0	22.7	
24 Methyl acetate	43	4.213	4.213	0.000	99	163942	20.0	25.8	
25 3-Chloro-1-propene	41	4.242	4.249	-0.007	90	203737	20.0	22.8	
26 Methylene Chloride	84	4.445	4.451	-0.006	97	109635	20.0	19.6	
* 27 t-Butyl alcohol-d10 (IS)	65	4.458	4.516	-0.058	58	285853	250.0	250.0	
28 2-Methyl-2-propanol	59	4.590	4.583	0.007	97	225485	200.0	205.7	
29 Acrylonitrile	53	4.786	4.792	-0.006	100	369020	100.0	116.7	
32 trans-1,2-Dichloroethene	96	4.856	4.863	-0.007	94	101985	20.0	18.7	
31 Methyl tert-butyl ether	73	4.866	4.863	0.003	92	361931	20.0	20.7	
33 Hexane	57	5.281	5.291	-0.010	96	164680	20.0	20.6	
35 1,1-Dichloroethane	63	5.516	5.519	-0.003	97	199386	20.0	19.9	
36 Isopropyl ether	45	5.573	5.577	-0.004	96	417767	20.0	22.5	
37 2-Chloro-1,3-butadiene	53	5.625	5.631	-0.006	93	182069	20.0	20.9	
38 Tert-butyl ethyl ether	59	6.114	6.111	0.004	99	374315	20.0	20.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Butanone (MEK)	43	6.313	6.313	0.000	99	1318601	250.0	315.3	
41 cis-1,2-Dichloroethene	96	6.342	6.352	-0.010	83	117419	20.0	19.9	
42 2,2-Dichloropropane	77	6.364	6.368	-0.004	86	158221	20.0	19.1	
44 Propionitrile	54	6.409	6.406	0.003	99	222172	150.0	140.9	
45 Methacrylonitrile	67	6.615	6.625	-0.010	95	560809	150.0	171.9	
46 Chlorobromomethane	128	6.676	6.673	0.003	91	57703	20.0	19.3	
47 Tetrahydrofuran	71	6.683	6.692	-0.009	94	120423	100.0	84.5	
48 Chloroform	83	6.824	6.828	-0.004	95	186057	20.0	18.9	
$ 49 Dibromofluoromethane (Surr)	113	7.040	7.040	0.000	93	263034	50.0	50.3	
50 1,1,1-Trichloroethane	97	7.056	7.062	-0.006	97	156002	20.0	18.1	
51 Cyclohexane	56	7.155	7.152	0.003	94	192568	20.0	19.6	
53 1,1-Dichloropropene	75	7.258	7.265	-0.007	96	150715	20.0	19.4	
52 Carbon tetrachloride	117	7.265	7.268	-0.003	66	128262	20.0	18.2	
54 Isobutyl alcohol	41	7.413	7.419	-0.006	97	195689	500.0	513.4	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.487	7.493	-0.006	98	67622	50.0	52.6	
56 Benzene	78	7.522	7.525	-0.003	97	449120	20.0	19.8	
57 1,2-Dichloroethane	62	7.593	7.596	-0.003	97	165024	20.0	19.7	
59 Tert-amyl methyl ether	73	7.708	7.715	-0.007	97	345606	20.0	19.8	
* 61 Fluorobenzene (IS)	96	7.924	7.927	-0.003	98	1052404	50.0	50.0	
62 n-Heptane	43	7.933	7.934	-0.001	98	188154	20.0	21.6	
63 n-Butanol	56	8.281	8.284	-0.003	93	266655	1000.0	829.5	
64 Trichloroethene	95	8.400	8.403	-0.003	98	109824	20.0	18.9	
65 Methylcyclohexane	83	8.708	8.712	-0.004	93	187699	20.0	19.0	
67 1,2-Dichloropropane	63	8.731	8.731	0.000	86	124972	20.0	20.5	
66 2-ethoxy-2-methyl butane	87	8.737	8.737	0.000	88	166899	20.0	19.6	
68 Methyl methacrylate	69	8.814	8.815	-0.001	95	111877	20.0	21.1	
69 1,4-Dioxane	88	8.811	8.821	-0.010	61	46596	500.0	595.3	
70 Dibromomethane	93	8.843	8.840	0.003	96	74460	20.0	18.8	
72 Dichlorobromomethane	83	9.075	9.078	-0.003	98	141310	20.0	19.4	
73 2-Nitropropane	41	9.339	9.345	-0.006	99	48839	20.0	15.1	
74 2-Chloroethyl vinyl ether	63	9.425	9.425	0.000	92	96374	20.0	21.4	
75 cis-1,3-Dichloropropene	75	9.605	9.609	-0.004	93	190208	20.0	20.0	
77 4-Methyl-2-pentanone (MIBK)	43	9.773	9.773	0.000	99	2708924	250.0	309.5	
$ 78 Toluene-d8 (Surr)	98	9.908	9.908	0.000	94	1107714	50.0	50.4	
79 Toluene	92	9.982	9.985	-0.003	97	277421	20.0	18.8	
84 trans-1,3-Dichloropropene	75	10.232	10.233	-0.001	96	183774	20.0	20.1	
85 Ethyl methacrylate	69	10.287	10.284	0.003	93	187532	20.0	19.8	
86 1,1,2-Trichloroethane	97	10.432	10.432	0.000	92	107668	20.0	19.1	
87 Tetrachloroethene	166	10.519	10.519	0.000	98	115058	20.0	19.1	
88 1,3-Dichloropropane	76	10.589	10.593	-0.004	95	187582	20.0	19.5	
90 2-Hexanone	43	10.638	10.641	-0.003	99	2062181	250.0	316.6	
92 Chlorodibromomethane	129	10.805	10.805	0.000	91	111010	20.0	18.8	
93 Ethylene Dibromide	107	10.911	10.914	-0.003	98	115430	20.0	18.6	
* 95 Chlorobenzene-d5 (IS)	117	11.338	11.339	-0.001	88	851516	50.0	50.0	
96 1-Chlorohexane	91	11.345	11.345	0.000	93	147099	20.0	18.0	
97 Chlorobenzene	112	11.364	11.368	-0.004	94	308037	20.0	19.1	
98 1,1,1,2-Tetrachloroethane	131	11.441	11.445	-0.004	94	103065	20.0	18.3	
99 Ethylbenzene	91	11.448	11.448	0.000	99	543057	20.0	18.9	
100 m-Xylene & p-Xylene	106	11.560	11.560	0.000	99	415692	40.0	38.0	
101 o-Xylene	106	11.888	11.888	0.000	97	200598	20.0	18.4	
102 Styrene	104	11.901	11.904	-0.003	95	341778	20.0	18.7	
103 Bromoform	173	12.062	12.059	0.003	96	85639	20.0	19.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 Isopropylbenzene	105	12.184	12.184	0.000	96	527857	20.0	18.9	
106 Cyclohexanone	55	12.264	12.265	-0.001	97	165268	500.0	451.3	
$ 107 4-Bromofluorobenzene (Surr)	95	12.329	12.329	0.000	91	415098	50.0	49.8	
108 1,1,2,2-Tetrachloroethane	83	12.428	12.429	-0.001	93	179121	20.0	18.7	
109 Bromobenzene	156	12.448	12.448	0.000	94	135694	20.0	19.0	
110 trans-1,4-Dichloro-2-butene	53	12.451	12.454	-0.003	93	198573	100.0	63.7	
111 1,2,3-Trichloropropane	110	12.473	12.474	-0.001	85	51938	20.0	18.4	
112 N-Propylbenzene	91	12.512	12.512	0.000	99	637730	20.0	18.7	
113 2-Chlorotoluene	126	12.592	12.589	0.003	96	123106	20.0	18.3	
114 1,3,5-Trimethylbenzene	105	12.644	12.647	-0.003	95	444684	20.0	18.3	
115 4-Chlorotoluene	126	12.682	12.683	-0.001	98	129469	20.0	18.7	
117 tert-Butylbenzene	134	12.888	12.888	0.000	93	87636	20.0	18.6	
119 1,2,4-Trimethylbenzene	105	12.930	12.927	0.003	97	455095	20.0	18.2	
120 sec-Butylbenzene	105	13.049	13.049	0.000	95	553177	20.0	18.9	
121 1,3-Dichlorobenzene	146	13.149	13.152	-0.003	98	255264	20.0	18.6	
122 4-Isopropyltoluene	119	13.155	13.155	0.000	98	480386	20.0	18.8	
* 123 1,4-Dichlorobenzene-d4	152	13.203	13.203	0.000	95	462615	50.0	50.0	
124 1,4-Dichlorobenzene	146	13.223	13.223	0.000	94	264253	20.0	18.9	
125 1,2,3-Trimethylbenzene	105	13.232	13.232	0.000	99	469730	20.0	18.4	
126 Benzyl chloride	91	13.300	13.300	0.000	99	358682	20.0	19.1	
127 1,3-Diethylbenzene	119	13.354	13.355	-0.001	96	285750	20.0	18.7	
128 p-Diethylbenzene	119	13.425	13.425	0.000	94	302890	20.0	19.2	
129 n-Butylbenzene	92	13.448	13.445	0.003	98	244268	20.0	18.8	
130 1,2-Dichlorobenzene	146	13.483	13.483	0.000	98	252387	20.0	18.7	
131 o-diethylbenzene	119	13.499	13.499	0.000	96	241074	20.0	18.9	
133 1,2-Dibromo-3-Chloropropane	75	14.023	14.023	0.000	82	39935	20.0	17.7	
134 1,3,5-Trichlorobenzene	180	14.149	14.149	0.000	97	193489	20.0	19.4	
135 1,2,4-Trichlorobenzene	180	14.570	14.573	-0.003	94	181231	20.0	18.6	
136 Hexachlorobutadiene	225	14.653	14.654	-0.001	98	77828	20.0	19.1	
137 Naphthalene	128	14.753	14.753	0.000	97	567645	20.0	17.8	
138 1,2,3-Trichlorobenzene	180	14.898	14.898	0.000	95	177018	20.0	18.8	
139 2-Methylnaphthalene	142	15.541	15.538	0.003	92	303007	20.0	18.0	

QC Flag Legend

Processing Flags

Reagents:

MSV_LCS_ACROL_00048	Amount Added: 50.00	Units: uL	
MSV_LCS_2CEVE_00050	Amount Added: 50.00	Units: uL	
MSV_LCS_VOC#1_00044	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00076	Amount Added: 50.00	Units: uL	
MSV_LCS_CYC_00001	Amount Added: 50.00	Units: uL	
MSV_LCS_EE_00002	Amount Added: 50.00	Units: uL	
MSV_HP23_ISSS_00007	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 14-Mar-2022 11:14:49 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\LM14L02.D

Injection Date: 14-Mar-2022 10:19:30 Instrument ID: 9915 Operator ID: clm27445

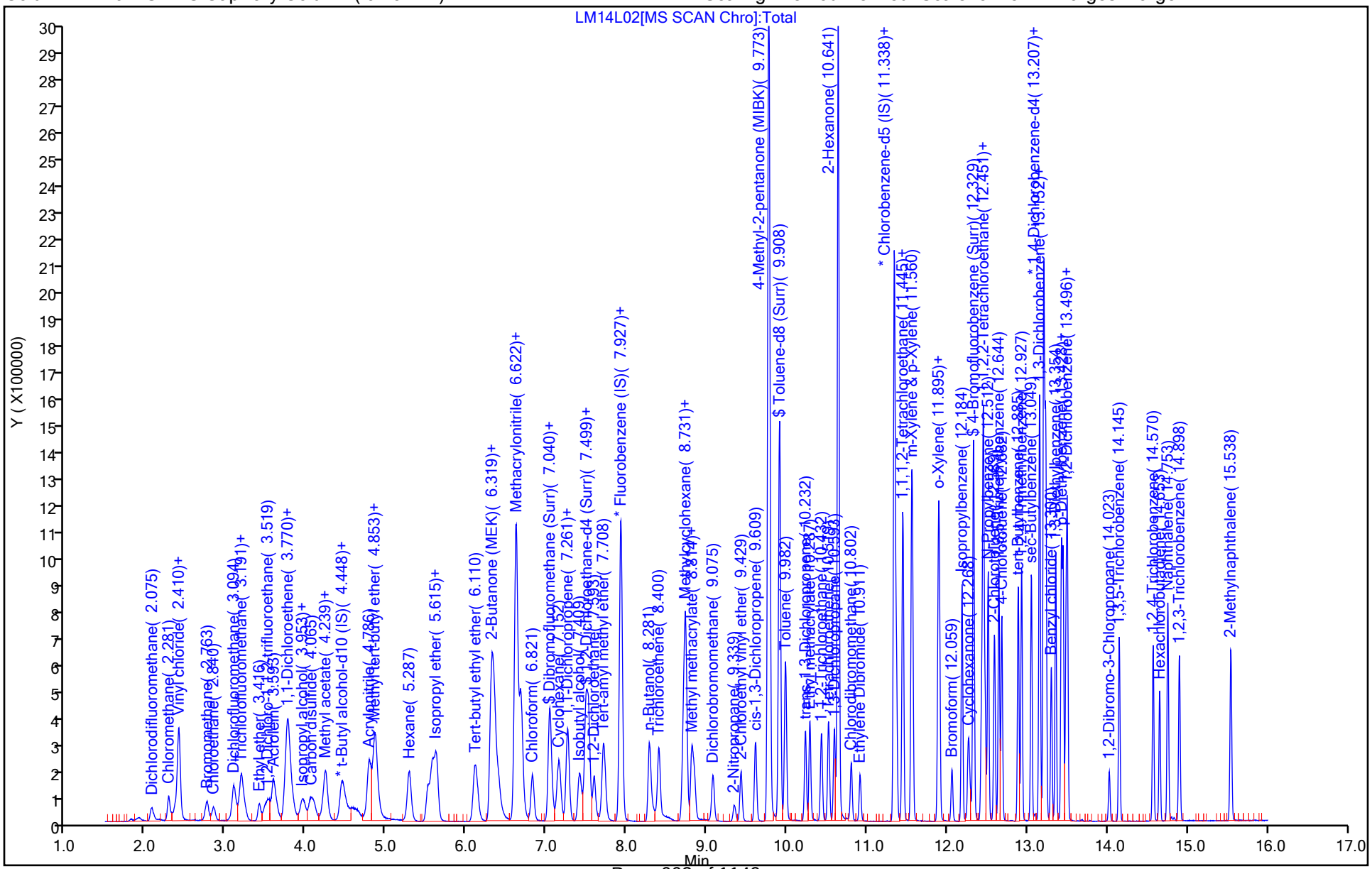
Lims ID: LCSD Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: MSVoa_9915a 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\9915\20220314-52368.b\LM14L02.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 14-Mar-2022 10:19:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052368-005
Misc. Info.: LCSD
Operator ID: clm27445 Instrument ID: 9915

Method: \\chromfs\Lancaster\ChromData\9915\20220314-52368.b\MSVoa_9915a.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2022 11:14:21 Calib Date: 29-Nov-2021 18:00:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9915\20211129-45073.b\LN29X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1633

First Level Reviewer: mellingerc Date: 14-Mar-2022 11:11:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 49 Dibromofluoromethane (Surr)	50.0	50.3	100.53
$ 55 1,2-Dichloroethane-d4 (Surr)	50.0	52.6	105.22
$ 78 Toluene-d8 (Surr)	50.0	50.4	100.85
$ 107 4-Bromofluorobenzene (Surr)	50.0	49.8	99.63

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Instrument ID: 9915 Start Date: 11/29/2021 11:53

Analysis Batch Number: 199110 End Date: 11/29/2021 18:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-199110/1		11/29/2021 11:53	1	LN29T01.D	R-624SilMS 30m 0.25(mm)
IC 410-199110/3		11/29/2021 12:09	1		R-624SilMS 30m 0.25(mm)
IC 410-199110/4		11/29/2021 12:31	1		R-624SilMS 30m 0.25(mm)
IC 410-199110/5		11/29/2021 12:53	1		R-624SilMS 30m 0.25(mm)
IC 410-199110/6		11/29/2021 13:16	1		R-624SilMS 30m 0.25(mm)
IC 410-199110/7		11/29/2021 13:38	1		R-624SilMS 30m 0.25(mm)
IC 410-199110/8		11/29/2021 14:00	1		R-624SilMS 30m 0.25(mm)
ICV 410-199110/9		11/29/2021 14:22	1		R-624SilMS 30m 0.25(mm)
IC 410-199110/11		11/29/2021 15:48	1	LN29X11.D	R-624SilMS 30m 0.25(mm)
IC 410-199110/12		11/29/2021 16:10	1	LN29X12.D	R-624SilMS 30m 0.25(mm)
IC 410-199110/13		11/29/2021 16:32	1	LN29X13.D	R-624SilMS 30m 0.25(mm)
IC 410-199110/14		11/29/2021 16:54	1	LN29X14.D	R-624SilMS 30m 0.25(mm)
ICIS 410-199110/15		11/29/2021 17:16	1	LN29X15.D	R-624SilMS 30m 0.25(mm)
IC 410-199110/16		11/29/2021 17:38	1	LN29X16.D	R-624SilMS 30m 0.25(mm)
IC 410-199110/17		11/29/2021 18:00	1	LN29X17.D	R-624SilMS 30m 0.25(mm)
ICV 410-199110/19		11/29/2021 18:44	1	LN29X19.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Instrument ID: 9915 Start Date: 03/14/2022 08:47

Analysis Batch Number: 233094 End Date: 03/14/2022 18:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-233094/1		03/14/2022 08:47	1	LM14T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-233094/3		03/14/2022 09:35	1	LM14C01.D	R-624SilMS 30m 0.25(mm)
LCS 410-233094/4		03/14/2022 09:57	1	LM14L01.D	R-624SilMS 30m 0.25(mm)
LCSD 410-233094/5		03/14/2022 10:19	1	LM14L02.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		03/14/2022 10:41	1		R-624SilMS 30m 0.25(mm)
MB 410-233094/7		03/14/2022 11:03	1	LM14B01.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		03/14/2022 11:45	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/14/2022 12:07	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/14/2022 12:29	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/14/2022 12:51	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/14/2022 13:13	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/14/2022 13:34	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/14/2022 13:56	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/14/2022 14:18	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/14/2022 14:40	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/14/2022 15:02	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/14/2022 15:24	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/14/2022 15:47	1		R-624SilMS 30m 0.25(mm)
410-74987-1	FBW001_03032022	03/14/2022 16:09	1	LM14S13.D	R-624SilMS 30m 0.25(mm)
410-74987-2	FBS010_03032022	03/14/2022 16:31	1	LM14S14.D	R-624SilMS 30m 0.25(mm)
410-74987-3	Trip Blank	03/14/2022 16:53	1	LM14S15.D	R-624SilMS 30m 0.25(mm)
CCVC 410-233094/26		03/14/2022 18:21	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-74987-1

SDG No.:

Batch Number: 199110 Batch Start Date: 11/29/21 11:53 Batch Analyst: Sposito, Kevin A

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	MSV_4ppbEE 00304	MSV_CCV_2CEVE 00036	MSV_CCV_GASES 00111
BFB 410-199110/1		8260C		1 uL	1 uL				
IC 410-199110/11		8260C		5 mL	5 mL	2608	12.5 mL		
IC 410-199110/12		8260C		5 mL	5 mL	2608		4 uL	2 uL
IC 410-199110/13		8260C		5 mL	5 mL	2608		2 uL	1 uL
IC 410-199110/14		8260C		5 mL	5 mL	2608		4 uL	2 uL
ICIS 410-199110/15		8260C		5 mL	5 mL	2608		5 uL	2.5 uL
IC 410-199110/16		8260C		5 mL	5 mL	2608		5 uL	2.5 uL
IC 410-199110/17		8260C		5 mL	5 mL	2608		15 uL	7.5 uL
ICV 410-199110/19		8260C		5 mL	5 mL	2608			

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_VOC#1 00039	MSV_CCV_VOC#3 00038	MSV_HP23_ISSS 00007	MSV_LCS_2CEVE 00034	MSV_LCS_ACROL 00032	MSV_LCS_VOC#1 00029
BFB 410-199110/1		8260C							
IC 410-199110/11		8260C				1 uL			
IC 410-199110/12		8260C		4 uL	3.2 uL	1 uL			
IC 410-199110/13		8260C		2 uL	1.6 uL	1 uL			
IC 410-199110/14		8260C		4 uL	3.2 uL	1 uL			
ICIS 410-199110/15		8260C		5 uL	4 uL	1 uL			
IC 410-199110/16		8260C		5 uL	4 uL	1 uL			
IC 410-199110/17		8260C		15 uL	12 uL	1 uL			
ICV 410-199110/19		8260C				1 uL	50 uL	50 uL	50 uL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-74987-1

SDG No.:

Batch Number: 199110 Batch Start Date: 11/29/21 11:53 Batch Analyst: Sposito, Kevin A

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_Q_EE 00005	MSV_QC_2K_GAS 00060	MSV_QCYC 00006	MSV_V_BFB 00006	MSV_V_EE 00006	MSV_V_VOA2 00116
BFB 410-199110/1		8260C					1 uL		
IC 410-199110/11		8260C							
IC 410-199110/12		8260C						4 uL	12 uL
IC 410-199110/13		8260C						2 uL	2 uL
IC 410-199110/14		8260C						4 uL	4 uL
ICIS 410-199110/15		8260C						5 uL	
IC 410-199110/16		8260C						5 uL	
IC 410-199110/17		8260C						15 uL	
ICV 410-199110/19		8260C		50 uL	1 uL	50 uL			

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_VCYC 00007					
BFB 410-199110/1		8260C							
IC 410-199110/11		8260C							
IC 410-199110/12		8260C		32 uL					
IC 410-199110/13		8260C		8 uL					
IC 410-199110/14		8260C		16 uL					
ICIS 410-199110/15		8260C		10 uL					
IC 410-199110/16		8260C		10 uL					
IC 410-199110/17		8260C		30 uL					
ICV 410-199110/19		8260C							

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-74987-1

SDG No.:

Batch Number: 199110 Batch Start Date: 11/29/21 11:53 Batch Analyst: Sposito, Kevin A

Batch Method: 8260C Batch End Date:

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.: 410-74987-1

SDG No.:

Batch Number: 233094 Batch Start Date: 03/14/22 08:47 Batch Analyst: Mellinger, Corie M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-233094/1		8260C		1 uL	1 uL				
CCVIS 410-233094/3		8260C		5 mL	5 mL				2622
LCS 410-233094/4		8260C		5 mL	5 mL				2622
LCSD 410-233094/5		8260C		5 mL	5 mL				2622
MB 410-233094/7		8260C		5 mL	5 mL				2622
410-74987-F-1	FBW001_03032022	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-74987-F-2	FBS010_03032022	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-74987-B-3	Trip Blank	8260C	T	5 mL	5 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_2CEVE 00053	MSV_CCV_CYC 00001	MSV_CCV_EE 00001	MSV_CCV_GASES 00158	MSV_CCV_VOC#1 00056	MSV_CCV_VOC#3 00055
BFB 410-233094/1		8260C							
CCVIS 410-233094/3		8260C		5 uL	10 uL	5 uL	2.5 uL	5 uL	4 uL
LCS 410-233094/4		8260C							
LCSD 410-233094/5		8260C							
MB 410-233094/7		8260C							
410-74987-F-1	FBW001_03032022	8260C	T						
410-74987-F-2	FBS010_03032022	8260C	T						
410-74987-B-3	Trip Blank	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_HP23_ISSS 00007	MSV_LCS_2CEVE 00050	MSV_LCS_ACROL 00048	MSV_LCS_CYC 00001	MSV_LCS_EE 00002	MSV_LCS_Gases 00076
BFB 410-233094/1		8260C							
CCVIS 410-233094/3		8260C		1 uL					
LCS 410-233094/4		8260C		1 uL	50 uL	50 uL	50 uL	50 uL	50 uL
LCSD 410-233094/5		8260C		1 uL	50 uL	50 uL	50 uL	50 uL	50 uL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-74987-1

SDG No.:

Batch Number: 233094 Batch Start Date: 03/14/22 08:47 Batch Analyst: Mellinger, Corie M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_HP23_ISSS 00007	MSV_LCS_2CEVE 00050	MSV_LCS_ACROL 00048	MSV_LCS_CYC 00001	MSV_LCS_EE 00002	MSV_LCS_Gases 00076
MB 410-233094/7		8260C		1 uL					
410-74987-F-1	FBW001_03032022	8260C	T	1 uL					
410-74987-F-2	FBS010_03032022	8260C	T	1 uL					
410-74987-B-3	Trip Blank	8260C	T	1 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_VOC#1 00044	MSV_V_BFB 00007				
BFB 410-233094/1		8260C			1 uL				
CCVIS 410-233094/3		8260C							
LCS 410-233094/4		8260C		50 uL					
LCSD 410-233094/5		8260C		50 uL					
MB 410-233094/7		8260C							
410-74987-F-1	FBW001_03032022	8260C	T						
410-74987-F-2	FBS010_03032022	8260C	T						
410-74987-B-3	Trip Blank	8260C	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.

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-74987-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-5MS 30m ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPHd14 #
FBW001_03032022	410-74987-1	36	25	63	65	77	81
FBS010_03032022	410-74987-2	39	26	68	65	74	75
	MB 410-231598/1-A	42	27	68	65	84	87
	LCS 410-231598/2-A	59	43	75	73	85	91
	LCSD 410-231598/3-A	55	39	74	74	85	89

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	10-120
PHL = Phenol-d5 (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	25-125
FBP = 2-Fluorobiphenyl (Surr)	44-120
TBP = 2,4,6-Tribromophenol (Surr)	10-150
TPHd14 = p-Terphenyl-d14 (Surr)	37-120

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-74987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: JC0953.D

Lab ID: LCS 410-231598/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
2,4-Dimethylphenol	50.0	46.5	93	62-120	
2,4-Dinitrophenol	100	88.4	88	43-146	
2-Chlorophenol	50.0	46.0	92	57-120	
Carbazole	50.0	48.2	96	74-120	
Phenol	50.0	29.1	58	22-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-74987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: JC0954.D

Lab ID: LCSD 410-231598/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2,4-Dimethylphenol	50.0	43.4	87	7	30	62-120	
2,4-Dinitrophenol	100	89.8	90	2	30	43-146	
2-Chlorophenol	50.0	42.3	85	8	30	57-120	
Carbazole	50.0	46.4	93	4	30	74-120	
Phenol	50.0	25.5	51	13	30	22-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-74987-1

SDG No.:

Lab File ID: JC0952.D Lab Sample ID: MB 410-231598/1-A

Matrix: Water Date Extracted: 03/09/2022 09:52

Instrument ID: HP23264 Date Analyzed: 03/09/2022 17:59

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-231598/2-A	JC0953.D	03/09/2022 18:21
	LCSD 410-231598/3-A	JC0954.D	03/09/2022 18:43
FBW001_03032022	410-74987-1	JC0967.D	03/09/2022 23:29
FBS010_03032022	410-74987-2	JC0968.D	03/09/2022 23:51

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Lab File ID: JB1400.D DFTPP Injection Date: 02/14/2022

Instrument ID: HP23264 DFTPP Injection Time: 11:55

Analysis Batch No.: 223551

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	56.3	
68	Less than 2% of mass 69	0.7	(1.1) 1
69	Mass 69 Relative abundance	69.8	
70	Less than 2% of mass 69	0.4	(0.5) 1
127	10-80% of Base Peak	57.1	
197	Less than 2% of mass 198	0.8	
198	Base peak	100.0	
199	5-9% of mass 198	6.2	
275	10-60% of Base Peak	24.2	
365	Greater than 1% of mass 198	3.6	
441	present but less than 24% of mass 442	9.6	(16.0) 2
442	Greater than 50% of mass 198	60.1	
443	15-24% of mass 442	11.2	(18.6) 2

1-Value is % mass 69 2-Value is % mass 442

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
	ICIS 410-223551/2	JB1401.D	02/14/2022	12:11
	IC 410-223551/3	JB1401a.D	02/14/2022	12:32
	IC 410-223551/4	JB1403.D	02/14/2022	12:55
	IC 410-223551/5	JB1404.D	02/14/2022	13:16
	IC 410-223551/6	JB1405.D	02/14/2022	13:37
	IC 410-223551/7	JB1406.D	02/14/2022	13:59
	IC 410-223551/8	JB1407.D	02/14/2022	14:20
	IC 410-223551/9	JB1408.D	02/14/2022	14:41
	ICV 410-223551/12	JB1411.D	02/14/2022	15:45
	ICV 410-223551/13	JB1412.D	02/14/2022	16:06
	ICV 410-223551/14	JB1413.D	02/14/2022	16:27

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Lab File ID: JC0950.D DFTPP Injection Date: 03/09/2022

Instrument ID: HP23264 DFTPP Injection Time: 16:50

Analysis Batch No.: 231885

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	49.4	
68	Less than 2% of mass 69	0.7	(1.2) 1
69	Mass 69 Relative abundance	63.1	
70	Less than 2% of mass 69	0.4	(0.7) 1
127	10-80% of Base Peak	56.4	
197	Less than 2% of mass 198	0.2	
198	Base peak	100.0	
199	5-9% of mass 198	7.3	
275	10-60% of Base Peak	22.6	
365	Greater than 1% of mass 198	3.8	
441	present but less than 24% of mass 442	11.4	(17.2) 2
442	Greater than 50% of mass 198	66.2	
443	15-24% of mass 442	12.3	(18.6) 2

1-Value is % mass 69 2-Value is % mass 442

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 410-231885/2	JC0951.D	03/09/2022	17:16
	MB 410-231598/1-A	JC0952.D	03/09/2022	17:59
	LCS 410-231598/2-A	JC0953.D	03/09/2022	18:21
	LCSD 410-231598/3-A	JC0954.D	03/09/2022	18:43
FBW001_03032022	410-74987-1	JC0967.D	03/09/2022	23:29
FBS010_03032022	410-74987-2	JC0968.D	03/09/2022	23:51

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Sample No.: ICIS 410-223551/2 Date Analyzed: 02/14/2022 12:11

Instrument ID: HP23264 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): JB1401.D Heated Purge: (Y/N) N

Calibration ID: 35392

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		198914	4.53	788982	5.74	423864	7.42
UPPER LIMIT		397828	5.03	1577964	6.24	847728	7.92
LOWER LIMIT		99457	4.03	394491	5.24	211932	6.92
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-223551/12		204340	4.52	801614	5.74	432682	7.41
ICV 410-223551/13		180645	4.52	718809	5.74	392838	7.41
ICV 410-223551/14		155305	4.52	593911	5.74	308284	7.41
CCVIS 410-231885/2		282158	4.43	1097381	5.65	571957	7.34

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

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 8270D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Sample No.: ICIS 410-223551/2 Date Analyzed: 02/14/2022 12:11

Instrument ID: HP23264 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): JB1401.D Heated Purge: (Y/N) N

Calibration ID: 35392

		PHN		PYR10		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		791121	8.83	732174	10.18	619306	13.48
UPPER LIMIT		1582242	9.33	1464348	10.68	1238612	13.98
LOWER LIMIT		395561	8.33	366087	9.68	309653	12.98
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-223551/12		777700	8.82	751713	10.18	629687	13.48
ICV 410-223551/13		780545	8.82	723014	10.18	634580	13.48
ICV 410-223551/14		602596	8.82	566690	10.18	520302	13.48
CCVIS 410-231885/2		1046397	8.75	956119	10.10	757194	13.36

PHN = Phenanthrene-d10
PYR10 = Pyrene-d10 (IS)
PRY = Perylene-d12

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 8270D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Sample No.: CCVIS 410-231885/2 Date Analyzed: 03/09/2022 17:16

Instrument ID: HP23264 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): JC0951.D Heated Purge: (Y/N) N

Calibration ID: 35737

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		282158	4.43	1097381	5.65	571957	7.34
UPPER LIMIT		564316	4.93	2194762	6.15	1143914	7.84
LOWER LIMIT		141079	3.93	548691	5.15	285979	6.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-231598/1-A		180110	4.43	689091	5.65	352048	7.33
LCS 410-231598/2-A		182851	4.43	715490	5.65	358204	7.33
LCSD 410-231598/3-A		215009	4.43	820935	5.65	399581	7.33
410-74987-1	FBW001_03032022	219422	4.43	848090	5.65	440351	7.33
410-74987-2	FBS010_03032022	238136	4.43	883246	5.65	442713	7.33

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

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 8270D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Sample No.: CCVIS 410-231885/2 Date Analyzed: 03/09/2022 17:16

Instrument ID: HP23264 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): JC0951.D Heated Purge: (Y/N) N

Calibration ID: 35737

		PHN		PYR10		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1046397	8.75	956119	10.10	757194	13.36
UPPER LIMIT		2092794	9.25	1912238	10.60	1514388	13.86
LOWER LIMIT		523199	8.25	478060	9.60	378597	12.86
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-231598/1-A		701843	8.74	644315	10.10	541028	13.36
LCS 410-231598/2-A		618417	8.74	577818	10.10	502255	13.36
LCSD 410-231598/3-A		747291	8.74	682922	10.10	575792	13.35
410-74987-1	FBW001_03032022	825158	8.74	763936	10.10	629749	13.36
410-74987-2	FBS010_03032022	851674	8.74	766001	10.10	594124	13.36

PHN = Phenanthrene-d10
PYR10 = Pyrene-d10 (IS)
PRY = Perylene-d12

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 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: FBW001_03032022 Lab Sample ID: 410-74987-1

Matrix: Water Lab File ID: JC0967.D

Analysis Method: 8270D Date Collected: 03/03/2022 09:20

Extract. Method: 3510C Date Extracted: 03/09/2022 09:52

Sample wt/vol: 248.1(mL) Date Analyzed: 03/09/2022 23:29

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 231885 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
105-67-9	2,4-Dimethylphenol	ND		10	3.0
51-28-5	2,4-Dinitrophenol	ND		30	14
95-57-8	2-Chlorophenol	ND		2.0	0.50
86-74-8	Carbazole	ND		2.0	0.50
108-95-2	Phenol	ND		2.0	0.50

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	77		10-150
321-60-8	2-Fluorobiphenyl (Surr)	65		44-120
367-12-4	2-Fluorophenol (Surr)	36		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	63		25-125
4165-62-2	Phenol-d5 (Surr)	25		10-120
1718-51-0	p-Terphenyl-d14 (Surr)	81		37-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0967.D				
Lims ID:	410-74987-D-1-B				
Client ID:	FBW001_03032022				
Sample Type:	Client				
Inject. Date:	09-Mar-2022 23:29:30	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-74987-D-1-B				
Misc. Info.:	410-0052105-018				
Operator ID:	mem41592	Instrument ID:	HP23264		
Method:	\\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\MSSemi_HP23264.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Mar-2022 13:10:33	Calib Date:	23-Feb-2022 15:34:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP23264\20220223-51020.b\JB2307.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1622				
First Level Reviewer: bauera		Date:	10-Mar-2022 13:09:43		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 9 2-Fluorophenol	112	3.178	3.184	-0.006	95	1233489	18.2	
$ 15 Phenol-d5	99	4.077	4.083	-0.006	96	1223411	12.7	
16 Phenol	94		4.094				ND	7
19 2-Chlorophenol	128		4.235				ND	7
* 22 1,4-Dichlorobenzene-d4	152	4.433	4.433	0.000	97	219422	5.00	
$ 39 Nitrobenzene-d5	82	4.959	4.964	-0.005	90	1384475	15.7	
44 2,4-Dimethylphenol	107		5.332				ND	7
* 52 Naphthalene-d8	136	5.654	5.653	0.001	99	848090	5.00	
$ 81 2-Fluorobiphenyl (Surr)	172	6.687	6.687	-0.006	99	1939399	16.2	
* 96 Acenaphthene-d10	164	7.329	7.335	-0.006	96	440351	5.00	
98 2,4-Dinitrophenol	184		7.393				ND	7
$ 116 2,4,6-Tribromophenol	330	8.083	8.082	-0.005	88	661341	38.7	
* 131 Phenanthrene-d10	188	8.742	8.748	-0.006	96	825158	5.00	
136 Carbazole	167		8.976				ND	7
* 146 Pyrene-d10 (IS)	212	10.097	10.103	-0.006	97	763936	5.00	
$ 148 p-Terphenyl-d14	244	10.278	10.278	-0.006	97	2524636	20.2	
* 167 Perylene-d12	264	13.355	13.361	-0.006	96	629749	5.00	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSS_RV8270_IS_00022 Amount Added: 20.00 Units: uL Run Reagent

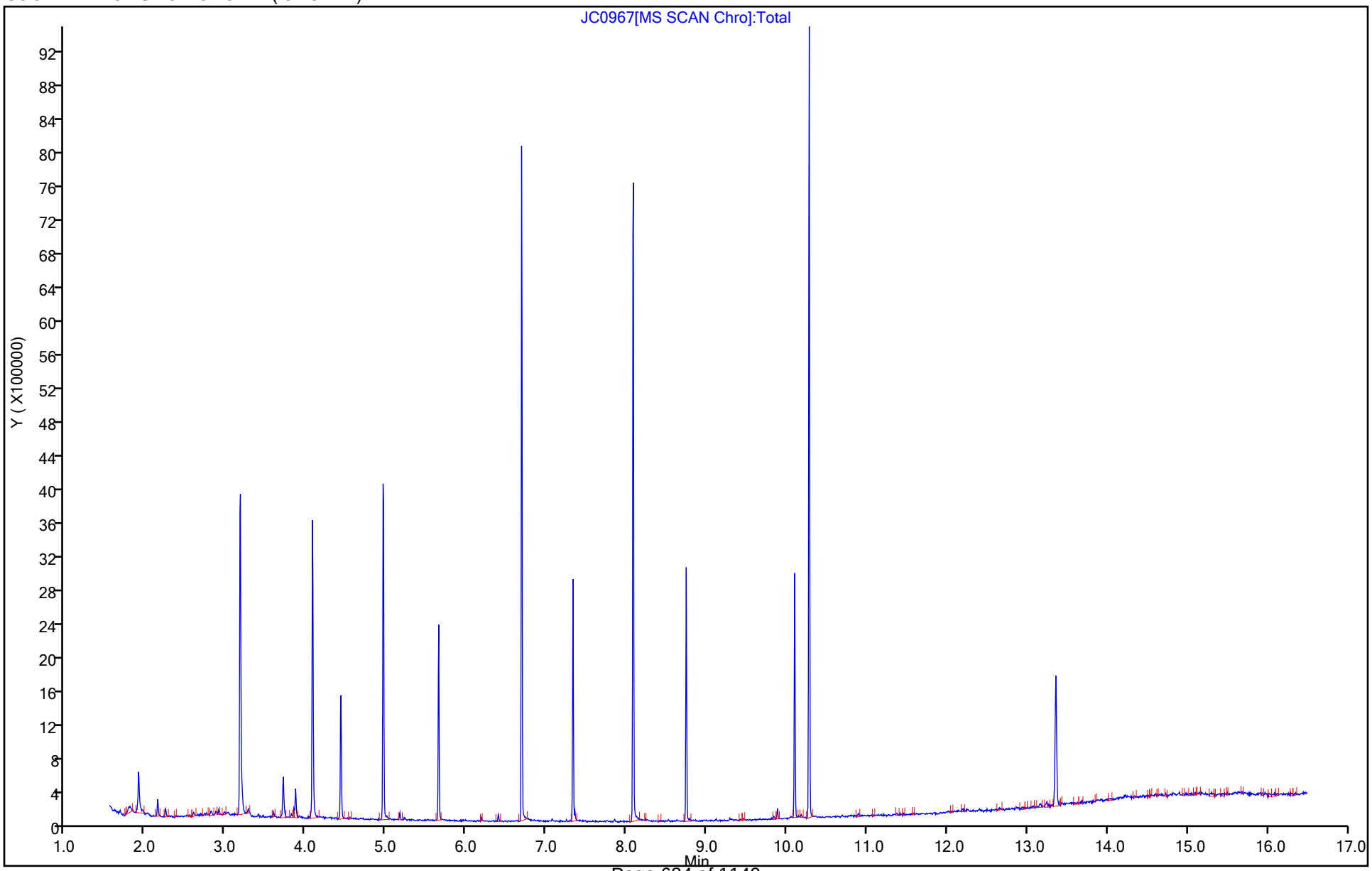
Report Date: 10-Mar-2022 13:11:22 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0967.D

Injection Date:	09-Mar-2022 23:29:30	Instrument ID:	HP23264	Operator ID:	mem41592
Lims ID:	410-74987-D-1-B	Lab Sample ID:	410-74987-1	Worklist Smp#:	18
Client ID:	FBW001_03032022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0967.D
Lims ID: 410-74987-D-1-B
Client ID: FBW001_03032022
Sample Type: Client
Inject. Date: 09-Mar-2022 23:29:30 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-74987-D-1-B
Misc. Info.: 410-0052105-018
Operator ID: mem41592 Instrument ID: HP23264

Method: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\MSSemi_HP23264.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Mar-2022 13:10:33 Calib Date: 23-Feb-2022 15:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23264\20220223-51020.b\JB2307.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1622

First Level Reviewer: bauera Date: 10-Mar-2022 13:09:43

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 2-Fluorophenol	50.2	18.2	36.21
$ 15 Phenol-d5	50.1	12.7	25.40
$ 39 Nitrobenzene-d5	25.1	15.7	62.50
$ 81 2-Fluorobiphenyl (Surr)	25.1	16.2	64.70
$ 116 2,4,6-Tribromophenol	50.2	38.7	77.16
$ 148 p-Terphenyl-d14	25.1	20.2	80.57

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: FBS010_03032022 Lab Sample ID: 410-74987-2

Matrix: Water Lab File ID: JC0968.D

Analysis Method: 8270D Date Collected: 03/03/2022 09:30

Extract. Method: 3510C Date Extracted: 03/09/2022 09:52

Sample wt/vol: 247.8(mL) Date Analyzed: 03/09/2022 23:51

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 231885 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
105-67-9	2,4-Dimethylphenol	ND		10	3.0
51-28-5	2,4-Dinitrophenol	ND		30	14
95-57-8	2-Chlorophenol	ND		2.0	0.50
86-74-8	Carbazole	ND		2.0	0.50
108-95-2	Phenol	ND		2.0	0.50

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	74		10-150
321-60-8	2-Fluorobiphenyl (Surr)	65		44-120
367-12-4	2-Fluorophenol (Surr)	39		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	68		25-125
4165-62-2	Phenol-d5 (Surr)	26		10-120
1718-51-0	p-Terphenyl-d14 (Surr)	75		37-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0968.D				
Lims ID:	410-74987-D-2-B				
Client ID:	FBS010_03032022				
Sample Type:	Client				
Inject. Date:	09-Mar-2022 23:51:30	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-74987-D-2-B				
Misc. Info.:	410-0052105-019				
Operator ID:	mem41592	Instrument ID:	HP23264		
Method:	\\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\MSSemi_HP23264.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Mar-2022 13:10:33	Calib Date:	23-Feb-2022 15:34:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP23264\20220223-51020.b\JB2307.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1622				
First Level Reviewer: bauera		Date:	10-Mar-2022 13:09:52		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 9 2-Fluorophenol	112	3.172	3.184	-0.012	95	1428192	19.4	
$ 15 Phenol-d5	99	4.077	4.083	-0.006	96	1357643	13.0	
16 Phenol	94		4.094				ND	7
19 2-Chlorophenol	128		4.235				ND	7
* 22 1,4-Dichlorobenzene-d4	152	4.433	4.433	0.000	97	238136	5.00	
$ 39 Nitrobenzene-d5	82	4.959	4.964	-0.005	89	1557618	16.9	
44 2,4-Dimethylphenol	107		5.332				ND	7
* 52 Naphthalene-d8	136	5.653	5.653	0.000	99	883246	5.00	
$ 81 2-Fluorobiphenyl (Surr)	172	6.687	6.687	-0.006	99	1968822	16.4	
* 96 Acenaphthene-d10	164	7.329	7.335	-0.006	96	442713	5.00	
98 2,4-Dinitrophenol	184		7.393				ND	7
$ 116 2,4,6-Tribromophenol	330	8.083	8.082	-0.005	89	637479	37.1	
* 131 Phenanthrene-d10	188	8.742	8.748	-0.006	97	851674	5.00	
136 Carbazole	167		8.976				ND	7
* 146 Pyrene-d10 (IS)	212	10.097	10.103	-0.006	97	766001	5.00	
$ 148 p-Terphenyl-d14	244	10.278	10.278	-0.006	97	2343551	18.7	
* 167 Perylene-d12	264	13.355	13.361	-0.006	96	594124	5.00	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSS_RV8270_IS_00022 Amount Added: 20.00 Units: uL Run Reagent

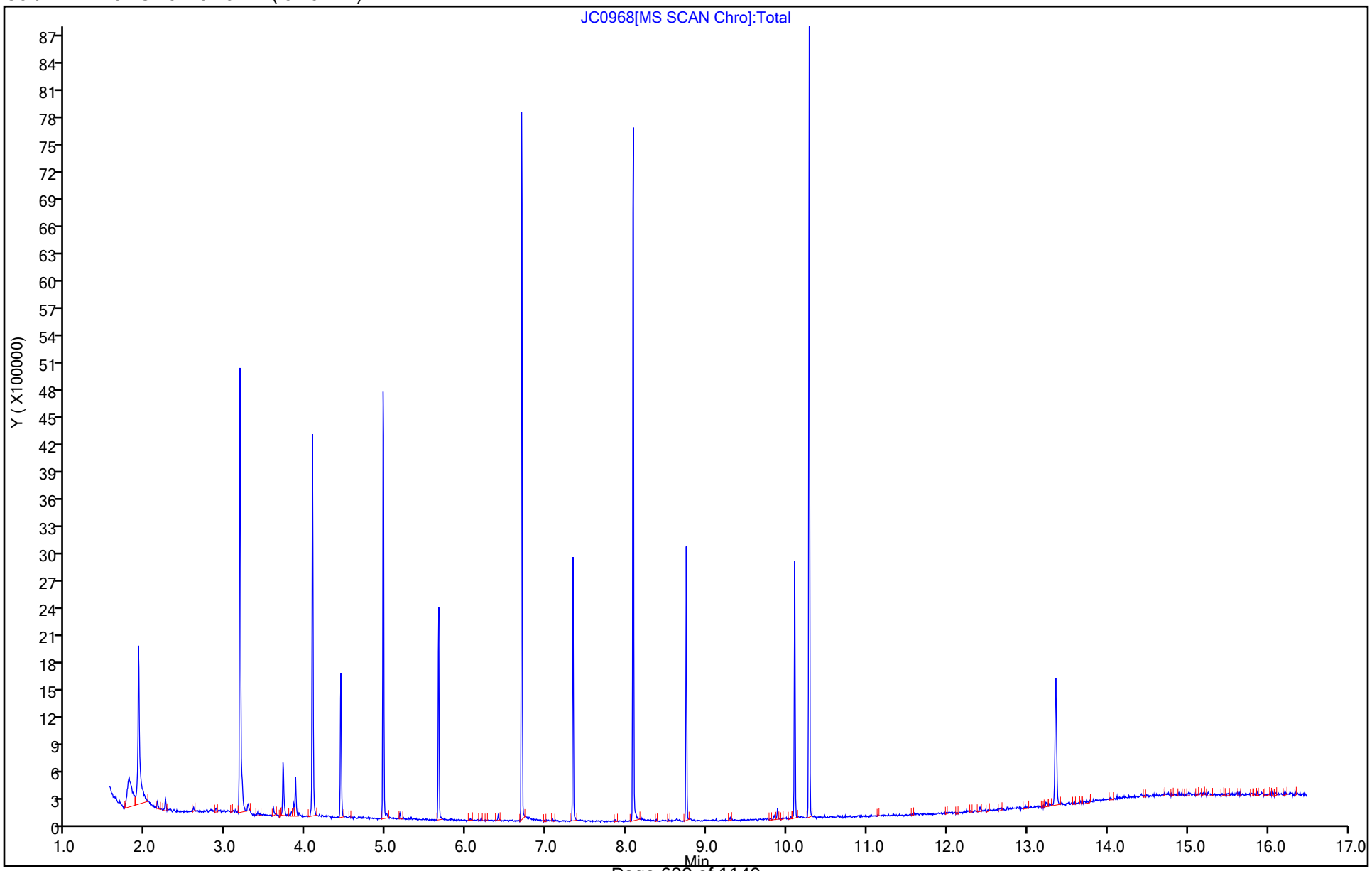
Report Date: 10-Mar-2022 13:11:24 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0968.D

Injection Date:	09-Mar-2022 23:51:30	Instrument ID:	HP23264	Operator ID:	mem41592
Lims ID:	410-74987-D-2-B	Lab Sample ID:	410-74987-2	Worklist Smp#:	19
Client ID:	FBS010_03032022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0968.D
Lims ID: 410-74987-D-2-B
Client ID: FBS010_03032022
Sample Type: Client
Inject. Date: 09-Mar-2022 23:51:30 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-74987-D-2-B
Misc. Info.: 410-0052105-019
Operator ID: mem41592 Instrument ID: HP23264

Method: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\MSSemi_HP23264.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Mar-2022 13:10:33 Calib Date: 23-Feb-2022 15:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23264\20220223-51020.b\JB2307.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1622

First Level Reviewer: bauera Date: 10-Mar-2022 13:09:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 2-Fluorophenol	50.2	19.4	38.63
$ 15 Phenol-d5	50.1	13.0	25.97
$ 39 Nitrobenzene-d5	25.1	16.9	67.52
$ 81 2-Fluorobiphenyl (Surr)	25.1	16.4	65.33
$ 116 2,4,6-Tribromophenol	50.2	37.1	73.98
$ 148 p-Terphenyl-d14	25.1	18.7	74.59

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 223551

SDG No.:

Instrument ID: HP23264 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2022 12:11 Calibration End Date: 02/14/2022 14:41 Calibration ID: 35392

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-223551/3	JB1401a.D
Level 2	IC 410-223551/9	JB1408.D
Level 3	IC 410-223551/8	JB1407.D
Level 4	IC 410-223551/7	JB1406.D
Level 5	IC 410-223551/6	JB1405.D
Level 6	ICIS 410-223551/2	JB1401.D
Level 7	IC 410-223551/5	JB1404.D
Level 8	IC 410-223551/4	JB1403.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 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	+++++ 0.6583	+++++ 0.6635	0.7922 0.6528	0.7339	0.6446	Ave		0.6909				8.6		20.0			
N-Nitrosodimethylamine	+++++ 1.2561	1.5664 1.2742	1.1463 1.2225	1.3009	1.2031	Ave		1.2813				10.6		20.0			
Pyridine	+++++ 1.9880	1.7704 2.0027	1.7074 1.9874	2.1124	1.8766	Ave		1.9207				7.4		20.0			
N,N-dimethylformamide	+++++ 1.3926	+++++ 1.3654	1.2104 1.3896	1.1678	1.3132	Ave		1.3065				7.4		20.0			
2-Picoline	+++++ 1.8427	2.0308 1.8477	1.7317 1.8180	1.7936	1.7796	Ave		1.8349				5.2		20.0			
N-Nitrosomethylethylamine	+++++ 0.7951	+++++ 0.7669	0.8289 0.7498	0.8333	0.7773	Ave		0.7919				4.3		20.0			
Methyl methanesulfonate	+++++ 1.2140	+++++ 1.1834	1.0151 1.1483	1.1480	1.1834	Ave		1.1487				6.1		20.0			
N-Nitrosodiethylamine	+++++ 0.7669	0.9329 0.7605	0.6741 0.7310	0.7040	0.7363	Ave		0.7579				11.0		20.0			
Ethyl methanesulfonate	+++++ 0.8760	1.1741 0.8602	0.8685 0.8337	0.7967	0.8392	Ave		0.8926				14.2		20.0			
Benzaldehyde	1.6181	+++++ 1.3933	1.9667 1.7708	1.9833	1.7720	Ave		1.7507			0.0100	12.7		20.0			
Phenol	+++++ 2.2645	2.3524 2.3306	1.9531 2.2791	2.4372	2.1392	Ave		2.2509			0.8000	7.1		20.0			
Aniline	+++++ 2.7877	2.4187 2.8692	2.3891 2.7615	2.8919	2.6746	Ave		2.6847				7.6		20.0			
Bis(2-chloroethyl)ether	+++++ 1.7796	1.7198 1.8224	1.5812 1.7426	1.8600	1.7216	Ave		1.7467			0.7000	5.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 223551

SDG No.:

Instrument ID: HP23264 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2022 12:11 Calibration End Date: 02/14/2022 14:41 Calibration ID: 35392

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 8	LVL 4	LVL 5		B	M1	M2								
2-Chlorophenol	+++++ 1.4482	1.3905 1.5192	1.2943 1.4626	1.5376	1.3908	Ave		1.4347			0.8000	5.9		20.0			
1,3-Dichlorobenzene	+++++ 1.4984	1.3802 1.5412	1.2743 1.5054	1.6331	1.4760	Ave		1.4727				7.8		20.0			
1,4-Dichlorobenzene	+++++ 1.5345	1.6322 1.5709	1.3707 1.5281	1.6113	1.5061	Ave		1.5362				5.6		20.0			
Benzyl alcohol	+++++ 1.0413	0.9227 1.0834	0.9218 1.0754	1.1592	0.9925	Ave		1.0280				8.5		20.0			
1,2-Dichlorobenzene	+++++ 1.4895	1.4442 1.5172	1.3761 1.4485	1.5753	1.4312	Ave		1.4688				4.4		20.0			
2-Methylphenol	+++++ 1.5364	1.6204 1.5327	1.2718 1.4699	1.5505	1.4454	Ave		1.4896			0.7000	7.5		20.0			
2,2'-oxybis[1-chloropropane]	+++++ 3.0984	3.2651 3.1926	2.8350 3.0605	3.2362	2.9523	Ave		3.0914			0.0100	5.1		20.0			
N-Nitrosopyrrolidine	+++++ 0.8965	0.9182 0.9088	0.8117 0.8507	0.8751	0.8599	Ave		0.8744				4.3		20.0			
4-Methylphenol (and/or 3-Methylphenol)	+++++ 1.5714	1.8496 1.6189	1.3971 1.5609	1.6551	1.5396	Ave		1.5989			0.6000	8.6		20.0			
Acetophenone	+++++ 2.4500	2.6808 2.5468	2.1991 2.4711	2.7888	2.3358	Ave		2.4961			0.0100	8.0		20.0			
N-Nitrosodi-n-propylamine	+++++ 1.5638	1.9340 1.6376	1.3647 1.5602	1.6835	1.5200	Ave		1.6091			0.5000	10.9		20.0			
N-Nitrosomorpholine	+++++ 1.3142	+++++ 1.3163	1.2664 1.2468	1.2835	1.2748	Ave		1.2837				2.1		20.0			
o-Toluidine	+++++ 2.4814	2.3192 2.5016	2.4226 2.3998	2.3612	2.4117	Ave		2.4139				2.6		20.0			
Hexachloroethane	+++++ 0.7109	0.8940 0.7361	0.6933 0.6955	0.7578	0.7131	Ave		0.7430			0.3000	9.5		20.0			
Nitrobenzene	+++++ 0.5295	0.5361 0.5376	0.5099 0.5396	0.5671	0.5053	Ave		0.5321			0.2000	3.9		20.0			
N-Nitrosopiperidine	+++++ 0.1897	0.2265 0.1929	0.1683 0.1893	0.1870	0.1911	Ave		0.1921				9.0		20.0			
Isophorone	+++++ 0.9762	1.0127 0.9923	0.8694 0.9816	1.0106	0.9528	Ave		0.9708			0.4000	5.1		20.0			
2-Nitrophenol	+++++ 0.1972	0.2149 0.1984	0.1789 0.1985	0.1934	0.1846	Ave		0.1951			0.1000	5.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 223551

SDG No.:

Instrument ID: HP23264 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2022 12:11 Calibration End Date: 02/14/2022 14:41 Calibration ID: 35392

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 8	LVL 4	LVL 5		B	M1	M2								
2,4-Dimethylphenol	+++++ 0.4360	0.4311 0.4430	0.3986 0.4408	0.4347	0.4220	Ave		0.4295			0.2000	3.5		20.0			
o,o',o''-Triethylphosphorothioate	+++++ 0.1695	0.1313 0.1646	0.1502 0.1593	0.1554	0.1640	Ave		0.1563				8.2		20.0			
Bis(2-chloroethoxy)methane	+++++ 0.5768	0.5767 0.5898	0.5286 0.5902	0.6054	0.5584	Ave		0.5751			0.3000	4.4		20.0			
2,4-Dichlorophenol	+++++ 0.3039	0.3301 0.3068	0.2490 0.3094	0.3075	0.2853	Ave		0.2988			0.2000	8.6		20.0			
1,2,4-Trichlorobenzene	+++++ 0.3223	0.2987 0.3342	0.2951 0.3282	0.3270	0.3089	Ave		0.3163				4.9		20.0			
Naphthalene	0.9845 1.0362	1.0019 1.0552	0.9524 1.0478	1.0792	1.0096	Ave		1.0208			0.7000	4.1		20.0			
a-Terpineol	+++++ 0.4942	0.4537 0.5044	0.4567 0.5144	0.5306	0.4863	Ave		0.4915				5.8		20.0			
4-Chloroaniline	+++++ 0.4791	0.3733 0.4736	0.4348 0.4761	0.4849	0.4520	Ave		0.4534			0.0100	8.7		20.0			
2,6-Dichlorophenol	+++++ 0.2913	0.2562 0.2943	0.2758 0.2957	0.3075	0.2842	Ave		0.2864				5.8		20.0			
Hexachloropropene	+++++ 0.2443	0.2245 0.2459	0.2074 0.2469	0.2265	0.2443	Ave		0.2343				6.5		20.0			
Hexachlorobutadiene	+++++ 0.1778	0.1662 0.1816	0.1673 0.1864	0.1976	0.1753	Ave		0.1789			0.0100	6.1		20.0			
Quinoline	+++++ 0.6824	0.6789 0.6690	0.6263 0.6652	0.6514	0.6746	Ave		0.6640				2.9		20.0			
Caprolactam	0.1219	+++++ 0.1177	0.1299 +++++	0.1377	0.1165	Ave		0.1248			0.0100	7.2		20.0			
N-Nitrosodi-n-butylamine	+++++ 0.4419	+++++ 0.4189	0.4115 0.4710	0.4050	0.4217	Ave		0.4283				5.7		20.0			
1,4-phenylenediamine	+++++ 0.3296	0.2857 0.3289	0.2706 0.3112	0.3172	0.3315	Ave		0.3107				7.7		20.0			
4-Chloro-3-methylphenol	+++++ 0.3655	0.3920 0.3709	0.3209 0.3670	0.3842	0.3503	Ave		0.3644			0.2000	6.4		20.0			
Safrole, Total	+++++ 0.2678	0.2339 0.2564	0.2337 0.2641	0.2532	0.2611	Ave		0.2529				5.5		20.0			
2-Methylnaphthalene	0.7703 0.6873	0.6263 0.6732	0.6313 0.6752	0.7008	0.6508	Ave		0.6769			0.4000	6.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 223551

SDG No.:

Instrument ID: HP23264 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2022 12:11 Calibration End Date: 02/14/2022 14:41 Calibration ID: 35392

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 8	LVL 4	LVL 5		B	M1	M2								
1-Methylnaphthalene	0.6296 0.6435	0.6085 0.6627	0.6038 0.6422	0.6549	0.6271	Ave		0.6340				3.3		20.0			
Hexachlorocyclopentadiene	+++++ 0.4582	0.3984 0.4794	0.4119 0.4867	0.4995	0.4235	Ave		0.4511			0.0500	8.8		20.0			
1,2,4,5-Tetrachlorobenzene	+++++ 0.5913	0.5694 0.6260	0.5245 0.6247	0.6345	0.5454	Ave		0.5880			0.0100	7.3		20.0			
Isosafrole Peak 1	+++++ 0.5501	0.5093 0.5964	0.6532 0.5495	0.5699	0.5531	Ave		0.5688				8.0		20.0			
2,4,6-Trichlorophenol	+++++ 0.4115	0.3542 0.4275	0.3575 0.4346	0.4275	0.3815	Ave		0.3992			0.2000	8.6		20.0			
2,4,5-Trichlorophenol	+++++ 0.4566	0.3922 0.4743	0.4112 0.4794	0.4935	0.4246	Ave		0.4474			0.2000	8.6		20.0			
Isosafrole Peak 2	+++++ 0.6416	0.5350 0.6226	0.6046 0.6213	0.6077	0.6027	Ave		0.6051				5.6		20.0			
1,1'-Biphenyl	+++++ 1.5514	1.5281 1.6154	1.4192 1.6123	1.7259	1.4627	Ave		1.5593			0.0100	6.6		20.0			
2-Chloronaphthalene	+++++ 1.1585	0.9592 1.2864	1.1373 1.2122	1.3794	1.2151	Ave		1.1926			0.8000	11.0		20.0			
1-Chloronaphthalene	+++++ 1.2721	1.3240 1.1755	0.9639 1.2307	1.1342	1.0601	Ave		1.1658				10.7		20.0			
Diphenyl ether	+++++ 0.7928	0.8837 0.8325	0.7238 0.8149	0.8933	0.7484	Ave		0.8128				7.8		20.0			
2-Nitroaniline	+++++ 0.4340	0.4866 0.4650	0.3811 0.4568	0.4944	0.4163	Ave		0.4478			0.0100	9.0		20.0			
1,4-Naphthoquinone	+++++ 0.5409	0.5222 0.5386	0.4783 0.5333	0.5094	0.5141	Ave		0.5195				4.2		20.0			
1,4-Dinitrobenzene	+++++ 0.1833	0.2376 0.1898	0.1712 0.1859	0.1875	0.1814	Ave		0.1910				11.2		20.0			
Dimethyl phthalate	+++++ 1.4735	1.4458 1.5137	1.3691 1.4896	1.6079	1.3611	Ave		1.4658			0.0100	5.8		20.0			
1,3-Dinitrobenzene	+++++ 0.2059	0.2490 0.2202	0.2056 0.2241	0.2326	0.2123	Ave		0.2214				7.1		20.0			
2,6-Dinitrotoluene	+++++ 0.3034	0.3653 0.3393	0.2979 0.3414	0.3475	0.2927	Ave		0.3268			0.2000	8.7		20.0			
Acenaphthylene	2.0344 1.9185	1.7740 2.0092	1.7291 1.9807	2.0917	1.8098	Ave		1.9184			0.9000	6.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 223551

SDG No.:

Instrument ID: HP23264 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2022 12:11 Calibration End Date: 02/14/2022 14:41 Calibration ID: 35392

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 8	LVL 4	LVL 5		B	M1	M2								
3-Nitroaniline	+++++ 0.3848	0.3936 0.3960	0.3496 0.4027	0.4084	0.3622	Ave		0.3853			0.0100	5.6		20.0			
Acenaphthene	1.2010 1.2666	1.1306 1.3311	1.1313 1.3231	1.3636	1.2096	Ave		1.2446			0.9000	7.3		20.0			
2,4-Dinitrophenol	+++++ 0.2037	0.1750 0.2214	0.1707 0.2222	0.2207	0.1844	Ave		0.1997			0.0100	11.4		20.0			
4-Nitrophenol	+++++ 0.2788	0.2240 0.2956	0.2451 0.2971	0.3059	0.2596	Ave		0.2723			0.0100	11.2		20.0			
Pentachlorobenzene	+++++ 0.5274	0.5559 0.5301	0.4926 0.5278	0.5216	0.4922	Ave		0.5211				4.3		20.0			
2,4-Dinitrotoluene	+++++ 0.4321	0.4475 0.4565	0.3767 0.4531	0.4756	0.4223	Ave		0.4377			0.2000	7.3		20.0			
Dibenzofuran	+++++ 1.6916	1.6199 1.7646	1.5779 1.7399	1.8158	1.5932	Ave		1.6861			0.8000	5.4		20.0			
1-Naphthylamine	+++++ 1.1605	1.1831 1.1766	1.0728 1.1908	1.1557	1.1001	Ave		1.1485				3.9		20.0			
2,3,4,6-Tetrachlorophenol	+++++ 0.3400	0.3789 0.3697	0.3193 0.3677	0.3848	0.3292	Ave		0.3556			0.0100	7.3		20.0			
2-Naphthylamine	+++++ 1.3499	1.1809 1.3674	1.2691 1.3481	1.3278	1.2972	Ave		1.3058				4.9		20.0			
Diethyl phthalate	+++++ 1.5552	1.4974 1.6332	1.4592 1.6134	1.7006	1.4750	Ave		1.5620			0.0100	5.8		20.0			
Thionazin	+++++ 0.2847	0.3608 0.2932	0.2728 0.2828	0.2887	0.2739	Ave		0.2938				10.4		20.0			
Fluorene	1.5105 1.3435	1.3804 1.4151	1.2222 1.3888	1.4562	1.2456	Ave		1.3703			0.9000	7.2		20.0			
4-Chlorophenyl-phenyl ether	+++++ 0.6216	0.5729 0.6504	0.5995 0.6487	0.6933	0.5851	Ave		0.6245			0.4000	6.8		20.0			
5-Nitro-o-toluidine	+++++ 0.3874	0.4484 0.3944	0.3832 0.4038	0.4010	0.3795	Ave		0.3996				5.8		20.0			
4-Nitroaniline	+++++ 0.3854	0.3459 0.4188	0.3456 0.4053	0.4275	0.3573	Ave		0.3837			0.0100	9.0		20.0			
4,6-Dinitro-2-methylphenol	+++++ 0.1286	0.1253 0.1311	0.0936 0.1273	0.1253	0.1189	Ave		0.1214			0.0100	10.6		20.0			
N-Nitrosodiphenylamine	+++++ 0.6199	0.6366 0.6275	0.5747 0.6104	0.6677	0.5668	Ave		0.6148			0.0100	5.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 223551

SDG No.:

Instrument ID: HP23264 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2022 12:11 Calibration End Date: 02/14/2022 14:41 Calibration ID: 35392

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 8	LVL 4	LVL 5		B	M1	M2								
1,2-Diphenylhydrazine	+++++ 1.0933	1.2647 1.1324	0.9512 1.1039	1.1663	1.0303	Ave		1.1060				9.0		20.0			
Sulfotepp	+++++ 0.2004	0.2795 0.2023	0.1999 0.1930	0.1976	0.1983	Ave		0.2101				14.6		20.0			
1,3,5-Trinitrobenzene	+++++ 0.0625	0.0657 0.0712	0.0505 0.0660	0.0600	0.0636	Ave		0.0628				10.3		20.0			
cis-Diallate	+++++ 0.4177	+++++ 0.4214	0.3917 0.4213	0.3931	0.4062	Ave		0.4086				3.4		20.0			
Phorate	+++++ 0.7281	0.7034 0.7282	0.6439 0.7080	0.6783	0.7022	Ave		0.6989				4.2		20.0			
Phenacetin	+++++ 0.4534	0.4014 0.4791	0.4012 0.4601	0.4483	0.4445	Ave		0.4411				6.7		20.0			
4-Bromophenyl-phenylether	+++++ 0.1948	0.1906 0.2081	0.1751 0.1965	0.2090	0.1916	Ave		0.1951			0.1000	5.9		20.0			
trans-Diallate	+++++ 0.4256	+++++ 0.4399	0.4443 0.4324	0.4428	0.4212	Ave		0.4344				2.2		20.0			
Hexachlorobenzene	0.1753 0.2153	0.2299 0.2252	0.2036 0.2156	0.2333	0.2033	Ave		0.2127			0.1000	8.8		20.0			
Dimethoate	+++++ 0.4456	0.4697 0.4451	0.3932 0.4179	0.4300	0.4119	Ave		0.4305				5.9		20.0			
Atrazine	 0.2251	+++++ 0.2167	0.2595 +++++	0.2516	0.2133	Ave		0.2332			0.0100	9.0		20.0			
Pentachlorophenol	+++++ 0.1445	0.1118 0.1512	0.1162 0.1509	0.1443	0.1334	Ave		0.1360			0.0500	11.9		20.0			
4-Aminobiphenyl	+++++ 0.8415	0.7912 0.8723	0.7566 0.8248	0.8332	0.7983	Ave		0.8169				4.6		20.0			
Pentachloronitrobenzene	+++++ 0.1175	0.1074 0.1206	0.1056 0.1161	0.1131	0.1166	Ave		0.1138				4.8		20.0			
Pronamide	+++++ 0.3641	0.3395 0.3670	0.3415 0.3545	0.3373	0.3488	Ave		0.3504				3.4		20.0			
Dinoseb	+++++ 0.1992	0.1769 0.1982	0.1474 0.1910	0.1618	0.1794	Ave		0.1791				10.7		20.0			
Disulfoton	+++++ 0.6487	+++++ 0.6508	0.6610 0.6281	0.6534	0.6388	Ave		0.6468				1.8		20.0			
Phenanthrene	1.2941 1.0759	1.2004 1.1313	0.9784 1.0858	1.1765	1.0214	Ave		1.1205			0.7000	9.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 223551

SDG No.:

Instrument ID: HP23264 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2022 12:11 Calibration End Date: 02/14/2022 14:41 Calibration ID: 35392

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 8	LVL 4	LVL 5		B	M1	M2								
Anthracene	1.0755 1.0906	1.0332 1.1453	1.0085 1.1235	1.1798	1.0643	Ave		1.0901			0.7000	5.3		20.0			
Carbazole	+++++ 1.0202	1.0439 1.0682	0.9340 1.0340	1.0760	0.9735	Ave		1.0214			0.0100	5.0		20.0			
Methyl parathion	+++++ 0.3401	0.2970 0.3388	0.2899 0.3278	0.3035	0.3234	Ave		0.3172				6.4		20.0			
Di-n-butyl phthalate	+++++ 1.4519	1.2475 1.5017	1.2904 1.4013	1.4918	1.3507	Ave		1.3908			0.0100	7.1		20.0			
Parathion	+++++ 0.2086	0.2073 0.2135	0.1766 0.2044	0.1838	0.1975	Ave		0.1988				6.9		20.0			
4-Nitroquinoline-1-oxide	+++++ 0.1259	+++++ 0.1325	0.0961 0.1326	0.0993	0.1067	Ave		0.1155				14.5		20.0			
Octachlorostyrene	+++++ 0.0900	0.1127 0.0949	0.0817 0.0948	0.0973	0.0851	Ave		0.0938				10.7		20.0			
Isodrin	+++++ 0.1444	0.1936 0.1422	0.1362 0.1368	0.1355	0.1359	Ave		0.1464				14.4		20.0			
Fluoranthene	1.2039 1.1431	1.1833 1.1927	1.0251 1.1660	1.2071	1.0836	Ave		1.1506			0.6000	5.6		20.0			
Benzidine	+++++ 0.9511	0.8000 0.9395	0.7877 0.7593	0.9319	0.8870	Ave		0.8652				9.4		20.0			
Pyrene	1.4608 1.2476	1.3140 1.2833	1.0932 1.2841	1.3500	1.1990	Ave		1.2790			0.6000	8.4		20.0			
p-Dimethylamino azobenzene	+++++ 0.1866	0.1959 0.1914	0.1560 0.1843	0.1680	0.1822	Ave		0.1806				7.7		20.0			
Chlorobenzilate	+++++ 0.4954	0.5267 0.5013	0.4494 0.4916	0.4731	0.4705	Ave		0.4869				5.1		20.0			
3,3'-Dimethylbenzidine	+++++ 0.6454	0.7380 0.6184	0.5312 0.5415	0.6087	0.5878	Ave		0.6101				11.4		20.0			
Butylbenzylphthalate	+++++ 0.6585	0.6612 0.6808	0.5688 0.6698	0.6805	0.6246	Ave		0.6492			0.0100	6.2		20.0			
2-Acetylaminofluorene	+++++ 0.4918	0.4242 0.5121	0.3965 0.5010	0.4683	0.4534	Ave		0.4639				9.1		20.0			
3,3'-Dichlorobenzidine	+++++ 0.4354	0.4217 0.4504	0.3687 0.4356	0.4651	0.4075	Ave		0.4264			0.0100	7.4		20.0			
4,4'-Methylene bis(2-chloroaniline)	+++++ 0.2144	0.2225 0.2146	0.1989 0.2038	0.1961	0.2011	Ave		0.2074				4.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 223551

SDG No.:

Instrument ID: HP23264 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2022 12:11 Calibration End Date: 02/14/2022 14:41 Calibration ID: 35392

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 8	LVL 4	LVL 5		B	M1	M2								
Benzo[a]anthracene	1.1026 1.0549	0.9902 1.0898	0.9022 1.0656	1.1603	0.9878	Ave		1.0442			0.8000	7.7		20.0			
Chrysene	1.0559 0.9776	0.9340 1.0174	0.8719 0.9968	1.0888	0.9220	Ave		0.9831			0.7000	7.3		20.0			
Bis(2-ethylhexyl) phthalate	+++++ 0.9158	0.9100 0.9776	0.8039 0.9508	1.0166	0.8776	Ave		0.9217			0.0100	7.5		20.0			
6-Methylchrysene	+++++ 0.7617	0.6951 0.7737	0.6571 0.7633	0.7415	0.7352	Ave		0.7325				5.8		20.0			
Di-n-octyl phthalate	+++++ 1.9382	1.6249 2.0254	1.5801 2.0318	1.9165	1.8225	Ave		1.8485			0.0100	9.9		20.0			
Benzo[b]fluoranthene	1.2276 1.3434	1.2292 1.3238	1.1144 1.3254	1.2927	1.2373	Ave		1.2617			0.7000	6.0		20.0			
7,12-Dimethylbenz(a)anthracene	+++++ 0.5699	0.5192 0.5684	0.4678 0.5686	0.4961	0.5438	Ave		0.5334				7.6		20.0			
Benzo[k]fluoranthene	1.1251 1.2569	1.1520 1.2808	1.0726 1.2780	1.2558	1.1878	Ave		1.2011			0.7000	6.5		20.0			
Benzo[a]pyrene	1.1607 1.1283	1.0691 1.1597	0.9576 1.1546	1.1322	1.0857	Ave		1.1060			0.7000	6.2		20.0			
3-Methylcholanthrene	+++++ 0.6229	0.5365 0.6192	0.5529 0.6060	0.5762	0.5901	Ave		0.5863				5.6		20.0			
Dibenz[a,h]acridine	+++++ 0.9039	0.9253 0.9022	0.7387 0.8980	0.7919	0.8471	Ave		0.8582				8.1		20.0			
Dibenz[a,j]acridine	+++++ 0.9260	1.0097 0.9551	0.8259 0.9440	0.9450	0.8782	Ave		0.9263				6.4		20.0			
Indeno[1,2,3-cd]pyrene	1.0207 1.0265	0.9838 1.0555	0.8742 1.0897	1.0718	0.9384	Ave		1.0076			0.5000	7.2		20.0			
Dibenz(a,h)anthracene	1.1382 1.0913	0.9658 1.1051	0.9349 1.1402	1.1215	1.0184	Ave		1.0644			0.4000	7.6		20.0			
Benzo[g,h,i]perylene	1.1019 1.1329	1.0236 1.1666	0.9833 1.1637	1.1689	1.0428	Ave		1.0980			0.5000	6.6		20.0			
2-Fluorophenol (Surr)	+++++ 1.5742	1.5515 1.5967	1.3687 1.5801	1.6598	1.5035	Ave		1.5478				5.9		20.0			
Phenol-d5 (Surr)	+++++ 2.2808	2.0435 2.3493	1.9367 2.2712	2.2975	2.1557	Ave		2.1907				6.9		20.0			
Nitrobenzene-d5 (Surr)	+++++ 0.5379	0.4858 0.5408	0.4561 0.5403	0.5697	0.5186	Ave		0.5213				7.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 223551

SDG No.:

Instrument ID: HP23264 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2022 12:11 Calibration End Date: 02/14/2022 14:41 Calibration ID: 35392

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 8	LVL 4	LVL 5		B	M1	M2								
2-Fluorobiphenyl (Surr)	+++++ 1.3728	1.2276 1.4566	1.2500 1.3974	1.4771	1.3109	Ave		1.3561				7.2		20.0			
2,4,6-Tribromophenol (Surr)	+++++ 0.2017	0.1582 0.2135	0.1699 0.2129	0.2153	0.1868	Ave		0.1941				11.8		20.0			
p-Terphenyl-d14 (Surr)	+++++ 0.8304	0.8097 0.8546	0.7248 0.8342	0.8817	0.7840	Ave		0.8171				6.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 223551

SDG No.:

Instrument ID: HP23264 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2022 12:11 Calibration End Date: 02/14/2022 14:41 Calibration ID: 35392

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-223551/3	JB1401a.D
Level 2	IC 410-223551/9	JB1408.D
Level 3	IC 410-223551/8	JB1407.D
Level 4	IC 410-223551/7	JB1406.D
Level 5	IC 410-223551/6	JB1405.D
Level 6	ICIS 410-223551/2	JB1401.D
Level 7	IC 410-223551/5	JB1404.D
Level 8	IC 410-223551/4	JB1403.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	+++++ 327341	+++++ 470298	33027 748651	88647	219367	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
N-Nitrosodimethylamine	DCBd 4	Ave	+++++ 624628	12995 903144	47792 1402019	157150	409438	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Pyridine	DCBd 4	Ave	+++++ 1977250	29376 2839139	142371 4558688	510330	1277300	+++++ 25.0	0.500 40.0	2.50 60.0	7.50	15.0
N,N-dimethylformamide	DCBd 4	Ave	+++++ 692497	+++++ 967818	50465 1593681	141067	446893	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
2-Picoline	DCBd 4	Ave	+++++ 916351	16848 1309656	72198 2085019	216666	605619	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosomethylethylamine	DCBd 4	Ave	+++++ 395404	+++++ 543595	34559 859901	100654	264533	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Methyl methanesulfonate	DCBd 4	Ave	+++++ 603709	+++++ 838796	42322 1316967	138679	402734	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
N-Nitrosodiethylamine	DCBd 4	Ave	+++++ 381355	7740 539042	28105 838375	85037	250563	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Ethyl methanesulfonate	DCBd 4	Ave	+++++	9741	36212	96235	285591	+++++	0.250	1.25	3.75	7.50

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 223551

SDG No.:

Instrument ID: HP23264 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2022 12:11 Calibration End Date: 02/14/2022 14:41 Calibration ID: 35392

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			435633	609702	956179			12.5	20.0	30.0		
Benzaldehyde	DCBd 4	Ave	804646	+++++ 987563	81996 2030886	239581	603025	12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Phenol	DCBd 4	Ave	+++++ 1126093	19516 1651941	81430 2613869	294410	727991	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Aniline	DCBd 4	Ave	+++++ 1386267	20066 2033744	99606 3167074	349331	910205	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Bis(2-chloroethyl)ether	DCBd 4	Ave	+++++ 884947	14268 1291731	65925 1998513	224683	585883	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Chlorophenol	DCBd 4	Ave	+++++ 720192	11536 1076828	53963 1677408	185732	473304	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 745141	11451 1092441	53127 1726540	197275	502296	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 763062	13541 1113465	57148 1752533	194634	512537	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzyl alcohol	DCBd 4	Ave	+++++ 517819	7655 767903	38431 1233388	140027	337780	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 740699	11982 1075382	57373 1661219	190289	487051	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Methylphenol	DCBd 4	Ave	+++++ 764012	13443 1086381	53023 1685835	187295	491887	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,2'-oxybis[1-chloropropane]	DCBd 4	Ave	+++++ 1540773	27088 2262950	118199 3510070	390924	1004727	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosopyrrolidine	DCBd 4	Ave	+++++	7618	33842	105712	292646	+++++	0.250	1.25	3.75	7.50

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 223551

SDG No.:

Instrument ID: HP23264 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2022 12:11 Calibration End Date: 02/14/2022 14:41 Calibration ID: 35392

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			445809	644180	975624			12.5	20.0	30.0		
4-Methylphenol (and/or 3-Methylphenol)	DCBd 4	Ave	+++++ 781435	15345 1147522	58247 1790167	199933	523943	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Acetophenone	DCBd 4	Ave	+++++ 1218354	22241 1805181	91687 2834043	336873	794901	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosodi-n-propylamine	DCBd 4	Ave	+++++ 777648	16045 1160775	56896 1789382	203366	517282	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosomorpholine	DCBd 4	Ave	+++++ 653530	+++++ 933002	52800 1429931	155047	433839	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
o-Toluidine	DCBd 4	Ave	+++++ 1233962	19241 1773141	101006 2752296	285222	820753	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Hexachloroethane	DCBd 4	Ave	+++++ 353519	7417 521726	28904 797652	91540	242686	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Nitrobenzene	NPT	Ave	+++++ 1044476	17511 1531264	83683 2390989	273263	675002	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosopiperidine	NPT	Ave	+++++ 374137	7400 549384	27621 838980	90122	255243	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Isophorone	NPT	Ave	+++++ 1925424	33080 2826607	142674 4349705	486966	1272907	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Nitrophenol	NPT	Ave	+++++ 388998	7021 565006	29357 879567	93190	246682	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4-Dimethylphenol	NPT	Ave	+++++ 859948	14084 1261921	65412 1953313	209473	563716	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
o,o',o''-Triethylphosphorothioate	NPT	Ave	+++++ 334271	4288 468742	24641 705842	74879	219130	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Bis(2-chloroethoxy)methane	NPT	Ave	+++++ 1137629	18839 1679896	86741 2615292	291745	745994	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4-Dichlorophenol	NPT	Ave	+++++ 599346	10782 873891	40861 1371144	148172	381158	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 223551

SDG No.:

Instrument ID: HP23264 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2022 12:11 Calibration End Date: 02/14/2022 14:41 Calibration ID: 35392

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trichlorobenzene	NPT	Ave	+++++ 635803	9758 951911	48431 1454238	157555	412705	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Naphthalene	NPT	Ave	15713 2043826	32727 3005643	156289 4643194	520050	1348806	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
a-Terpineol	NPT	Ave	+++++ 974880	14821 1436862	74941 2279421	255677	649685	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Chloroaniline	NPT	Ave	+++++ 945074	12194 1348981	71350 2109801	233666	603800	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,6-Dichlorophenol	NPT	Ave	+++++ 574671	8370 838340	45262 1310309	148168	379685	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Hexachloropropene	NPT	Ave	+++++ 481778	7332 700376	34040 1094317	109150	326423	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Hexachlorobutadiene	NPT	Ave	+++++ 350657	5429 517237	27451 826173	95197	234189	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Quinoline	NPT	Ave	+++++ 1345948	22177 1905537	102787 2947928	313887	901281	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Caprolactam	NPT	Ave	 240512	+++++ 335397	21325 +++++	66341	155578	 12.5	+++++ 20.0	1.25 +++++	3.75	7.50
N-Nitrosodi-n-butylamine	NPT	Ave	+++++ 871588	+++++ 1193108	67535 2087381	195161	563399	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
1,4-phenylenediamine	NPT	Ave	+++++ 650075	9333 936892	44412 1378879	152843	442856	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Chloro-3-methylphenol	NPT	Ave	+++++ 721022	12804 1056390	52658 1626263	185134	467930	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Safrole, Total	NPT	Ave	+++++ 528261	7640 730360	38348 1170527	121997	348844	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Methylnaphthalene	NPT	Ave	12294 1355671	20459 1917699	103608 2992262	337715	869427	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1-Methylnaphthalene	NPT	Ave	10049 1269278	19876 1887600	99089 2845640	315563	837799	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Hexachlorocyclopentadiene	ANT	Ave	+++++ 485504	7118 705054	36261 1106493	123460	309452	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,2,4,5-Tetrachlorobenzene	ANT	Ave	+++++ 626544	10174 920658	46177 1420286	156825	398586	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Isosafrole Peak 1	ANT	Ave	+++++ 93261	1456 140354	9201 199871	22535	64663	+++++ 2.00	0.0400 3.20	0.200 4.80	0.600	1.20

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 223551

SDG No.:

Instrument ID: HP23264 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2022 12:11 Calibration End Date: 02/14/2022 14:41 Calibration ID: 35392

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2,4,6-Trichlorophenol	ANT	Ave	+++++ 436029	6329 628830	31479 988111	105660	278767	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4,5-Trichlorophenol	ANT	Ave	+++++ 483809	7007 697587	36202 1089894	121981	310271	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Isosafrole Peak 2	ANT	Ave	+++++ 571128	8030 769231	44715 1186588	126161	369977	+++++ 10.5	0.210 16.8	1.05 25.2	3.15	6.30
1,1'-Biphenyl	ANT	Ave	+++++ 1643970	27302 2375868	124949 3665492	426579	1068886	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Chloronaphthalene	ANT	Ave	+++++ 1227581	17138 1891996	100129 2756024	340943	887960	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1-Chloronaphthalene	ANT	Ave	+++++ 1347979	23655 1728867	84865 2797991	280326	774652	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Diphenyl ether	ANT	Ave	+++++ 840150	15788 1224439	63723 1852633	220794	546928	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Nitroaniline	ANT	Ave	+++++ 459919	8694 683952	33554 1038516	122199	304241	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,4-Naphthoquinone	ANT	Ave	+++++ 573148	9330 792227	42108 1212534	125902	375656	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,4-Dinitrobenzene	ANT	Ave	+++++ 194225	4246 279123	15071 422683	46341	132545	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dimethyl phthalate	ANT	Ave	+++++ 1561390	25832 2226323	120539 3386551	397410	994633	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,3-Dinitrobenzene	ANT	Ave	+++++ 218218	4448 323862	18102 509507	57494	155103	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,6-Dinitrotoluene	ANT	Ave	+++++ 321499	6527 499050	26226 776113	85880	213858	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Acenaphthylene	ANT	Ave	18299 2032924	31696 2955079	152233 4503209	516973	1322499	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
3-Nitroaniline	ANT	Ave	+++++ 407797	7033 582462	30778 915548	100940	264681	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Acenaphthene	ANT	Ave	10803 1342135	20200 1957709	99598 3007988	337019	883905	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4-Dinitrophenol	ANT	Ave	+++++ 431676	31263 651214	60126 1010360	163670	314402	+++++ 25.0	2.50 40.0	5.00 60.0	11.3	17.5
4-Nitrophenol	ANT	Ave	+++++ 590811	24014 869396	64728 1350971	151229	379443	+++++ 25.0	1.50 40.0	3.75 60.0	7.50	15.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 223551

SDG No.:

Instrument ID: HP23264 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2022 12:11 Calibration End Date: 02/14/2022 14:41 Calibration ID: 35392

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Pentachlorobenzene	ANT	Ave	+++++ 558895	9932 779662	43373 1200063	128929	359696	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4-Dinitrotoluene	ANT	Ave	+++++ 457885	7996 671462	33161 1030096	117543	308618	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dibenzofuran	ANT	Ave	+++++ 1792472	28942 2595383	138917 3955720	448800	1164270	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1-Naphthylamine	ANT	Ave	+++++ 1229697	21138 1730485	94448 2707206	285632	803914	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,3,4,6-Tetrachlorophenol	ANT	Ave	+++++ 360256	6769 543774	28108 835978	95098	240531	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Naphthylamine	ANT	Ave	+++++ 1430441	21099 2011184	111732 3064822	328180	947966	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Diethyl phthalate	ANT	Ave	+++++ 1647975	26754 2402098	128468 3668053	420318	1077835	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Thionazin	ANT	Ave	+++++ 301688	6447 431285	24015 642943	71364	200120	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Fluorene	ANT	Ave	13587 1423674	24663 2081247	107602 3157322	359915	910245	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Chlorophenyl-phenyl ether	ANT	Ave	+++++ 658646	10235 956611	52781 1474730	171350	427557	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
5-Nitro-o-toluidine	ANT	Ave	+++++ 410471	8011 580085	33733 917993	99102	277288	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Nitroaniline	ANT	Ave	+++++ 408423	6181 615941	30423 921391	105669	261101	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4,6-Dinitro-2-methylphenol	PHN	Ave	+++++ 508521	25920 728628	48000 1114111	119505	322217	+++++ 25.0	1.50 40.0	3.75 60.0	7.50	15.0
N-Nitrosodiphenylamine	PHN	Ave	+++++ 1042077	18651 1482206	83501 2270679	270548	652950	+++++ 10.6	0.213 17.0	1.06 25.5	3.19	6.38
1,2-Diphenylhydrazine	PHN	Ave	+++++ 2162298	43593 3147165	162613 4831407	555996	1396305	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Sulfotepp	PHN	Ave	+++++ 396369	9633 562335	34178 844479	94198	268735	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,3,5-Trinitrobenzene	PHN	Ave	+++++ 123635	2264 197855	8630 288907	28593	86168	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
cis-Diallate	PHN	Ave	+++++ 611266	+++++ 866712	49545 1364275	138678	407423	+++++ 9.25	+++++ 14.8	0.925 22.2	2.78	5.55

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 223551

SDG No.:

Instrument ID: HP23264 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2022 12:11 Calibration End Date: 02/14/2022 14:41 Calibration ID: 35392

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Phorate	PHN	Ave	+++++ 1440060	24246 2023818	110081 3098374	323347	951689	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Phenacetin	PHN	Ave	+++++ 896669	13835 1331509	68587 2013525	213703	602411	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Bromophenyl-phenylether	PHN	Ave	+++++ 385342	6569 578301	29927 859979	99638	259710	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
trans-Diallate	PHN	Ave	+++++ 218871	+++++ 317892	19747 491988	54887	148406	+++++ 3.25	+++++ 5.20	0.325 7.80	0.975	1.95
Hexachlorobenzene	PHN	Ave	2972 425851	7923 625747	34807 943728	111211	275511	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dimethoate	PHN	Ave	+++++ 881344	16192 1236901	67213 1829051	204978	558182	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Atrazine	PHN	Ave	 445235	+++++ 602216	44360 +++++	119921	289083	 12.5	+++++ 20.0	1.25 +++++	3.75	7.50
Pentachlorophenol	PHN	Ave	+++++ 571562	7706 840370	39741 1320967	137573	361643	+++++ 25.0	0.500 40.0	2.50 60.0	7.50	15.0
4-Aminobiphenyl	PHN	Ave	+++++ 1664304	27274 2424342	129346 3609861	397182	1081916	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Pentachloronitrobenzene	PHN	Ave	+++++ 232370	3702 335174	18051 507971	53916	157969	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Pronamide	PHN	Ave	+++++ 720118	11701 1019894	58371 1551287	160808	472705	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dinoseb	PHN	Ave	+++++ 393956	6097 550822	25194 836033	77128	243144	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Disulfoton	PHN	Ave	+++++ 1282953	+++++ 1808609	113001 2748771	311466	865678	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Phenanthrene	PHN	Ave	21942 2128003	41377 3144100	167260 4751853	560812	1384320	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Anthracene	PHN	Ave	18235 2156919	35613 3183001	172407 4917079	562389	1442418	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Carbazole	PHN	Ave	+++++ 2017735	35985 2968773	159671 4525496	512907	1319338	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Methyl parathion	PHN	Ave	+++++ 672690	10236 941543	49551 1434470	144658	438359	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Di-n-butyl phthalate	PHN	Ave	+++++ 2871636	43002 4173476	220591 6132787	711143	1830492	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50

FORM VI
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RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 223551

SDG No.:

Instrument ID: HP23264 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2022 12:11 Calibration End Date: 02/14/2022 14:41 Calibration ID: 35392

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Parathion	PHN	Ave	+++++ 412542	7146 593325	30185 894759	87595	267640	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Nitroquinoline-1-oxide	PHN	Ave	+++++ 248961	+++++ 368135	16423 580378	47341	144591	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Octachlorostyrene	PHN	Ave	+++++ 177944	3885 263720	13966 414896	46361	115359	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Isodrin	PHN	Ave	+++++ 285549	6675 395288	23278 598493	64569	184148	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Fluoranthene	PHN	Ave	20413 2260744	40788 3314690	175233 5102912	575430	1468560	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzidine	PYR10	Ave	+++++ 5222596	78538 7462853	393223 9255090	1239591	3314335	+++++ 37.5	0.750 60.0	3.75 90.0	11.3	22.5
Pyrene	PYR10	Ave	23739 2283670	43002 3398016	181911 5217094	598586	1493383	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
p-Dimethylamino azobenzene	PYR10	Ave	+++++ 341590	6410 506860	25960 748700	74495	226946	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Chlorobenzilate	PYR10	Ave	+++++ 906866	17236 1327296	74787 1997227	209784	586063	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
3,3'-Dimethylbenzidine	PYR10	Ave	+++++ 1181319	24150 1637417	88400 2200010	269872	732162	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Butylbenzylphthalate	PYR10	Ave	+++++ 1205353	21639 1802767	94648 2721114	301729	777977	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Acetylaminofluorene	PYR10	Ave	+++++ 900260	13883 1355917	65980 2035368	207634	564692	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
3,3'-Dichlorobenzidine	PYR10	Ave	+++++ 797017	13801 1192603	61359 1769637	206219	507591	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4,4'-Methylene bis(2-chloroaniline)	PYR10	Ave	+++++	7283	33099	86968	250504	+++++	0.250	1.25	3.75	7.50

FORM VI
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RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 223551

SDG No.:

Instrument ID: HP23264 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2022 12:11 Calibration End Date: 02/14/2022 14:41 Calibration ID: 35392

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			392421	568326	828129			12.5	20.0	30.0		
Benzo[a]anthracene	PYR10	Ave	17917 1930978	32404 2885690	150125 4329240	514438	1230259	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Chrysene	PYR10	Ave	17159 1789391	30565 2694124	145081 4049990	482764	1148336	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Bis(2-ethylhexyl) phthalate	PYR10	Ave	+++++ 1676233	29780 2588693	133768 3862788	450729	1093043	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
6-Methylchrysene	PYR10	Ave	+++++ 1394333	22746 2048653	109349 3101248	328771	915741	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Di-n-octyl phthalate	PRY	Ave	+++++ 3000923	47808 4663246	232844 7054539	791828	1897115	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzo[b]fluoranthene	PRY	Ave	18061 2079960	36166 3047932	164224 4602103	534087	1287905	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
7,12-Dimethylbenz(a)anthracene	PRY	Ave	+++++ 882384	15277 1308621	68935 1974338	204965	566057	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzo[k]fluoranthene	PRY	Ave	16552 1946076	33894 2948812	158057 4437409	518839	1236399	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzo[a]pyrene	PRY	Ave	17077 1746981	31456 2670091	141108 4008884	467777	1130107	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
3-Methylcholanthrene	PRY	Ave	+++++ 964424	15785 1425752	81476 2104100	238047	614272	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dibenz[a,h]acridine	PRY	Ave	+++++ 1399482	27224 2077316	108850 3117823	327185	881815	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dibenz[a,j]acridine	PRY	Ave	+++++ 1433753	29708 2198918	121701 3277630	390442	914164	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Indeno[1,2,3-cd]pyrene	PRY	Ave	15017 1589363	28946 2430062	128819 3783677	442825	976835	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dibenz(a,h)anthracene	PRY	Ave	16745 1689615	28416 2544426	137771 3959027	463358	1060115	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzo[g,h,i]perylene	PRY	Ave	16212 1754039	30116 2686016	144907 4040667	482920	1085502	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 223551

SDG No.:

Instrument ID: HP23264 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2022 12:11 Calibration End Date: 02/14/2022 14:41 Calibration ID: 35392

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2-Fluorophenol (Surr)	DCBd 4	Ave	+++++ 1565653	25744 2263534	114132 3624270	401003	1023307	+++++ 25.0	0.500 40.0	2.50 60.0	7.50	15.0
Phenol-d5 (Surr)	DCBd 4	Ave	+++++ 2268448	33908 3330357	161490 5209550	555070	1467239	+++++ 25.0	0.500 40.0	2.50 60.0	7.50	15.0
Nitrobenzene-d5 (Surr)	NPT	Ave	+++++ 2121869	31739 3080912	149706 4788726	549084	1385569	+++++ 25.0	0.500 40.0	2.50 60.0	7.50	15.0
2-Fluorobiphenyl (Surr)	ANT	Ave	+++++ 2909420	43866 4284637	220106 6354176	730172	1915894	+++++ 25.0	0.500 40.0	2.50 60.0	7.50	15.0
2,4,6-Tribromophenol (Surr)	ANT	Ave	+++++ 427522	5652 627932	29921 968167	106431	273076	+++++ 25.0	0.500 40.0	2.50 60.0	7.50	15.0
p-Terphenyl-d14 (Surr)	PYR10	Ave	+++++ 3040021	52997 4525644	241234 6778471	781907	1952825	+++++ 25.0	0.500 40.0	2.50 60.0	7.50	15.0

Curve Type Legend
Ave = Average ISTD

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1401.D
Lims ID: ICIS L6
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 14-Feb-2022 12:11:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS L6
Misc. Info.: 410-0050350-002
Operator ID: apb10206 Instrument ID: HP23264
Sublist: chrom-MSSemi_HP23264*sub27

Method: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\MSSemi_HP23264.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Feb-2022 08:31:55 Calib Date: 14-Feb-2022 14:41:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1408.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: bauera Date: 14-Feb-2022 12:58:03

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.864	1.864	0.000	96	327341	12.5	11.9	
	2 N-Nitrosodimethylamine	74	2.091	2.091	0.000	95	624628	12.5	12.3	
	3 Pyridine	79	2.132	2.132	0.000	92	1977250	25.0	25.9	
	4 Dimethylformamide	73	2.424	2.424	0.000	97	692497	12.5	13.3	
	5 2-Picoline	93	2.745	2.745	0.000	93	916351	12.5	12.6	
	6 N-Nitrosomethylethylamine	88	2.833	2.833	0.000	95	395404	12.5	12.6	
	7 Methyl methanesulfonate	80	3.102	3.102	0.000	85	603709	12.5	13.2	
$	9 2-Fluorophenol	112	3.265	3.265	0.000	96	1565653	25.0	25.4	
	11 N-Nitrosodiethylamine	102	3.487	3.487	0.000	91	381355	12.5	12.6	
	12 Ethyl methanesulfonate	109	3.773	3.773	0.000	96	435633	12.5	12.3	
	13 Benzaldehyde	77	4.106	4.106	0.000	91	804646	12.5	11.6	
$	15 Phenol-d5	99	4.147	4.147	0.000	96	2268448	25.0	26.0	
	16 Phenol	94	4.164	4.164	0.000	96	1126093	12.5	12.6	
	17 Aniline	93	4.205	4.205	0.000	96	1386267	12.5	13.0	
	18 Bis(2-chloroethyl)ether	93	4.264	4.264	0.000	88	884947	12.5	12.7	a
	19 2-Chlorophenol	128	4.322	4.322	0.000	91	720192	12.5	12.6	
	21 1,3-Dichlorobenzene	146	4.474	4.474	0.000	94	745141	12.5	12.7	
*	22 1,4-Dichlorobenzene-d4	152	4.526	4.526	0.000	96	198914	5.00	5.00	
	23 1,4-Dichlorobenzene	146	4.544	4.544	0.000	90	763062	12.5	12.5	
	26 Benzyl alcohol	108	4.649	4.649	0.000	88	517819	12.5	12.7	
	27 1,2-Dichlorobenzene	146	4.684	4.684	0.000	93	740699	12.5	12.7	
	29 2-Methylphenol	108	4.748	4.748	0.000	98	764012	12.5	12.9	
	30 2,2'-oxybis[1-chloropropane]	45	4.783	4.783	0.000	93	1540773	12.5	12.5	
	31 N-Nitrosopyrrolidine	100	4.883	4.883	0.000	88	445809	12.5	12.8	
	34 4-Methylphenol	108	4.894	4.894	0.000	96	781435	12.5	12.3	
	32 Acetophenone	105	4.906	4.906	0.000	89	1218354	12.5	12.3	
	33 N-Nitrosodi-n-propylamine	70	4.906	4.906	0.000	80	777648	12.5	12.1	
	35 N-Nitrosomorpholine	56	4.923	4.923	0.000	89	653530	12.5	12.8	
	36 2-Toluidine	106	4.941	4.941	0.000	95	1233962	12.5	12.8	
	37 Hexachloroethane	117	5.011	5.011	0.000	97	353519	12.5	12.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 39 Nitrobenzene-d5	82	5.052	5.052	0.000	90	2121869	25.0	25.8	
40 Nitrobenzene	77	5.069	5.069	0.000	88	1044476	12.5	12.4	
41 N-Nitrosopiperidine	114	5.215	5.215	0.000	82	374137	12.5	12.3	
42 Isophorone	82	5.297	5.297	0.000	99	1925424	12.5	12.6	
43 2-Nitrophenol	139	5.373	5.373	0.000	94	388998	12.5	12.6	
44 2,4-Dimethylphenol	107	5.408	5.408	0.000	99	859948	12.5	12.7	
46 o,o',o''-Triethylphosphorothioat	198	5.478	5.478	0.000	95	334271	12.5	13.6	
47 Bis(2-chloroethoxy)methane	93	5.507	5.507	0.000	93	1137629	12.5	12.5	
49 2,4-Dichlorophenol	162	5.601	5.601	0.000	97	599346	12.5	12.7	
50 1,2,4-Trichlorobenzene	180	5.688	5.688	0.000	93	635803	12.5	12.7	
* 52 Naphthalene-d8	136	5.741	5.741	0.000	98	788982	5.00	5.00	
53 Naphthalene	128	5.764	5.764	0.000	97	2043826	12.5	12.7	
55 Alpha-Terpineol	59	5.770	5.770	0.000	91	974880	12.5	12.6	
56 4-Chloroaniline	127	5.811	5.811	0.000	93	945074	12.5	13.2	
57 2,6-Dichlorophenol	162	5.817	5.817	0.000	91	574671	12.5	12.7	
58 Hexachloropropene	213	5.846	5.846	0.000	96	481778	12.5	13.0	
59 Hexachlorobutadiene	225	5.881	5.881	0.000	98	350657	12.5	12.4	
61 Quinoline	129	6.080	6.080	0.000	94	1345948	12.5	12.8	
62 Caprolactam	113	6.126	6.126	0.000	70	240512	12.5	12.2	
63 N-Nitrosodi-n-butylamine	84	6.132	6.132	0.000	92	871588	12.5	12.9	
64 p-Phenylene diamine	108	6.144	6.144	0.000	93	650075	12.5	13.3	
65 4-Chloro-3-methylphenol	107	6.272	6.272	0.000	94	721022	12.5	12.5	
66 Safrole, Total	162	6.342	6.342	0.000	82	528261	12.5	13.2	
67 2-Methylnaphthalene	142	6.424	6.424	0.000	90	1355671	12.5	12.7	
69 1-Methylnaphthalene	142	6.517	6.517	0.000	91	1269278	12.5	12.7	
71 Hexachlorocyclopentadiene	237	6.576	6.576	0.000	96	485504	12.5	12.7	
70 1,2,4,5-Tetrachlorobenzene	216	6.582	6.582	0.000	98	626544	12.5	12.6	
72 Isosafrole Peak 1	162	6.623	6.623	0.000	83	93261	2.00	1.93	
79 2,4,6-Trichlorophenol	196	6.693	6.693	0.000	81	436029	12.5	12.9	
80 2,4,5-Trichlorophenol	196	6.722	6.722	0.000	92	483809	12.5	12.8	
$ 81 2-Fluorobiphenyl (Surr)	172	6.774	6.774	0.000	99	2909420	25.0	25.3	
82 Isosafrole Peak 2	162	6.833	6.833	0.000	86	571128	10.5	11.1	
83 1,1'-Biphenyl	154	6.868	6.868	0.000	95	1643970	12.5	12.4	
84 2-Chloronaphthalene	162	6.891	6.891	0.000	86	1227581	12.5	12.1	
85 1-Chloronaphthalene	162	6.909	6.909	0.000	97	1347979	12.5	13.6	
86 Phenyl ether	170	6.973	6.973	0.000	88	840150	12.5	12.2	
87 2-Nitroaniline	138	6.985	6.985	0.000	76	459919	12.5	12.1	
88 1,4-Naphthoquinone	158	7.055	7.055	0.000	77	573148	12.5	13.0	
89 1,4-Dinitrobenzene	168	7.113	7.113	0.000	85	194225	12.5	12.0	
90 Dimethyl phthalate	163	7.160	7.160	0.000	97	1561390	12.5	12.6	
91 1,3-Dinitrobenzene	168	7.183	7.183	0.000	81	218218	12.5	11.6	
92 2,6-Dinitrotoluene	165	7.218	7.218	0.000	83	321499	12.5	11.6	
93 Acenaphthylene	152	7.282	7.282	0.000	99	2032924	12.5	12.5	
95 3-Nitroaniline	138	7.370	7.370	0.000	89	407797	12.5	12.5	
* 96 Acenaphthene-d10	164	7.417	7.417	0.000	95	423864	5.00	5.00	
97 Acenaphthene	153	7.446	7.446	0.000	98	1342135	12.5	12.7	
98 2,4-Dinitrophenol	184	7.469	7.469	0.000	79	431676	25.0	25.5	
100 4-Nitrophenol	109	7.528	7.528	0.000	91	590811	25.0	25.6	
99 Pentachlorobenzene	250	7.568	7.568	0.000	96	558895	12.5	12.7	
102 2,4-Dinitrotoluene	165	7.598	7.598	0.000	90	457885	12.5	12.3	
101 Dibenzofuran	168	7.609	7.609	0.000	96	1792472	12.5	12.5	
104 1-Naphthylamine	143	7.685	7.685	0.000	97	1229697	12.5	12.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
105 2,3,4,6-Tetrachlorophenol	232	7.726	7.726	0.000	78	360256	12.5	11.9	
106 2-Naphthylamine	143	7.761	7.761	0.000	95	1430441	12.5	12.9	
107 Diethyl phthalate	149	7.837	7.837	0.000	96	1647975	12.5	12.4	
109 Thionazin	107	7.913	7.913	0.000	75	301688	12.5	12.1	
108 Fluorene	166	7.936	7.936	0.000	92	1423674	12.5	12.3	
110 4-Chlorophenyl phenyl ether	204	7.942	7.942	0.000	86	658646	12.5	12.4	
111 N-Nitro-o-toluidine	152	7.948	7.948	0.000	75	410471	12.5	12.1	
112 4-Nitroaniline	138	7.954	7.954	0.000	79	408423	12.5	12.6	
113 4,6-Dinitro-2-methylphenol	198	7.983	7.983	0.000	73	508521	25.0	26.5	
114 N-Nitrosodiphenylamine	169	8.053	8.053	0.000	66	1042077	10.6	10.7	
115 1,2-Diphenylhydrazine	77	8.088	8.088	0.000	42	2162298	12.5	12.4	
$ 116 2,4,6-Tribromophenol	330	8.164	8.164	0.000	86	427522	25.0	26.0	
117 Sulfotepp	97	8.211	8.211	0.000	76	396369	12.5	11.9	
118 1,3,5-Trinitrobenzene	213	8.298	8.298	0.000	80	123635	12.5	12.4	
120 cis-Diallate	86	8.328	8.328	0.000	94	611266	9.25	9.46	
119 Phorate	75	8.339	8.339	0.000	93	1440060	12.5	13.0	
121 Phenacetin	108	8.345	8.345	0.000	88	896669	12.5	12.8	
122 4-Bromophenyl phenyl ether	248	8.409	8.409	0.000	75	385342	12.5	12.5	
123 trans-Diallate	86	8.415	8.415	0.000	94	218871	3.25	3.18	
124 Hexachlorobenzene	284	8.456	8.456	0.000	91	425851	12.5	12.7	
125 Dimethoate	87	8.497	8.497	0.000	96	881344	12.5	12.9	
126 Atrazine	200	8.561	8.561	0.000	83	445235	12.5	12.1	
127 Pentachlorophenol	266	8.643	8.643	0.000	90	571562	25.0	26.6	
129 4-Aminobiphenyl	169	8.649	8.649	0.000	92	1664304	12.5	12.9	
128 Pentachloronitrobenzene	237	8.655	8.655	0.000	85	232370	12.5	12.9	
130 Pronamide	173	8.713	8.713	0.000	90	720118	12.5	13.0	
133 Dinoseb	211	8.824	8.824	0.000	92	393956	12.5	13.9	
* 131 Phenanthrene-d10	188	8.830	8.830	0.000	97	791121	5.00	5.00	
134 Disulfoton	88	8.836	8.836	0.000	97	1282953	12.5	12.5	
132 Phenanthrene	178	8.853	8.853	0.000	98	2128003	12.5	12.0	
135 Anthracene	178	8.900	8.900	0.000	99	2156919	12.5	12.5	
136 Carbazole	167	9.052	9.052	0.000	96	2017735	12.5	12.5	
137 Methyl parathion	109	9.192	9.192	0.000	89	672690	12.5	13.4	
138 Di-n-butyl phthalate	149	9.396	9.396	0.000	100	2871636	12.5	13.0	
139 Ethyl Parathion	109	9.565	9.565	0.000	81	412542	12.5	13.1	
140 4-Nitroquinoline-1-oxide	190	9.589	9.589	0.000	92	248961	12.5	13.6	
S 68 Diallate	86				0		12.5	12.6	
142 Octachlorostyrene	308	9.805	9.805	0.000	91	177944	12.5	12.0	
143 Isodrin	193	9.846	9.846	0.000	92	285549	12.5	12.3	
144 Fluoranthene	202	9.986	9.986	0.000	99	2260744	12.5	12.4	
145 Benzidine	184	10.120	10.120	0.000	99	5222596	37.5	41.2	
* 146 Pyrene-d10 (IS)	212	10.184	10.184	0.000	98	732174	5.00	5.00	
147 Pyrene	202	10.202	10.202	0.000	96	2283670	12.5	12.2	
$ 148 p-Terphenyl-d14	244	10.365	10.365	0.000	99	3040021	25.0	25.4	
149 p-Dimethylamino azobenzene	225	10.506	10.506	0.000	91	341590	12.5	12.9	
150 Chlorobenzilate	139	10.558	10.558	0.000	81	906866	12.5	12.7	
152 3,3'-Dimethylbenzidine	212	10.862	10.862	0.000	99	1181319	12.5	13.2	
153 Butyl benzyl phthalate	149	10.885	10.885	0.000	95	1205353	12.5	12.7	
155 2-Acetylaminofluorene	181	11.136	11.136	0.000	93	900260	12.5	13.3	
S 94 Isosafrole	162				0		12.5	13.1	
157 3,3'-Dichlorobenzidine	252	11.481	11.481	0.000	77	797017	12.5	12.8	
158 4,4'-Methylene bis(2-chloroanil	231	11.492	11.492	0.000	90	392421	12.5	12.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
156 Benzo[a]anthracene	228	11.504	11.504	0.000	100	1930978	12.5	12.6	
159 Chrysene	228	11.545	11.545	0.000	97	1789391	12.5	12.4	
160 Bis(2-ethylhexyl) phthalate	149	11.580	11.580	0.000	96	1676233	12.5	12.4	
161 6-Methylchrysene	242	12.129	12.129	0.000	99	1394333	12.5	13.0	
162 Di-n-octyl phthalate	149	12.462	12.462	0.000	99	3000923	12.5	13.1	
164 Benzo[b]fluoranthene	252	12.935	12.935	0.000	97	2079960	12.5	13.3	
163 7,12-Dimethylbenz(a)anthracene	256	12.935	12.935	0.000	72	882384	12.5	13.4	
165 Benzo[k]fluoranthene	252	12.975	12.975	0.000	99	1946076	12.5	13.1	
166 Benzo[a]pyrene	252	13.402	13.402	0.000	79	1746981	12.5	12.8	
* 167 Perylene-d12	264	13.483	13.483	0.000	96	619306	5.00	5.00	
168 3-Methylcholanthrene	268	13.933	13.933	0.000	91	964424	12.5	13.3	
169 Dibenz[a,h]acridine	279	14.774	14.774	0.000	92	1399482	12.5	13.2	
170 Dibenz[a,j]acridine	279	14.861	14.861	0.000	96	1433753	12.5	12.5	
171 Indeno[1,2,3-cd]pyrene	276	15.148	15.148	0.000	97	1589363	12.5	12.7	
172 Dibenz(a,h)anthracene	278	15.200	15.200	0.000	95	1689615	12.5	12.8	
173 Benzo[g,h,i]perylene	276	15.615	15.615	0.000	95	1754039	12.5	12.9	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MSS_RV8270_6_00024 Amount Added: 1.00 Units: mL

Report Date: 15-Feb-2022 08:31:55 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1401.D

Injection Date: 14-Feb-2022 12:11:30 Instrument ID: HP23264 Operator ID: apb10206

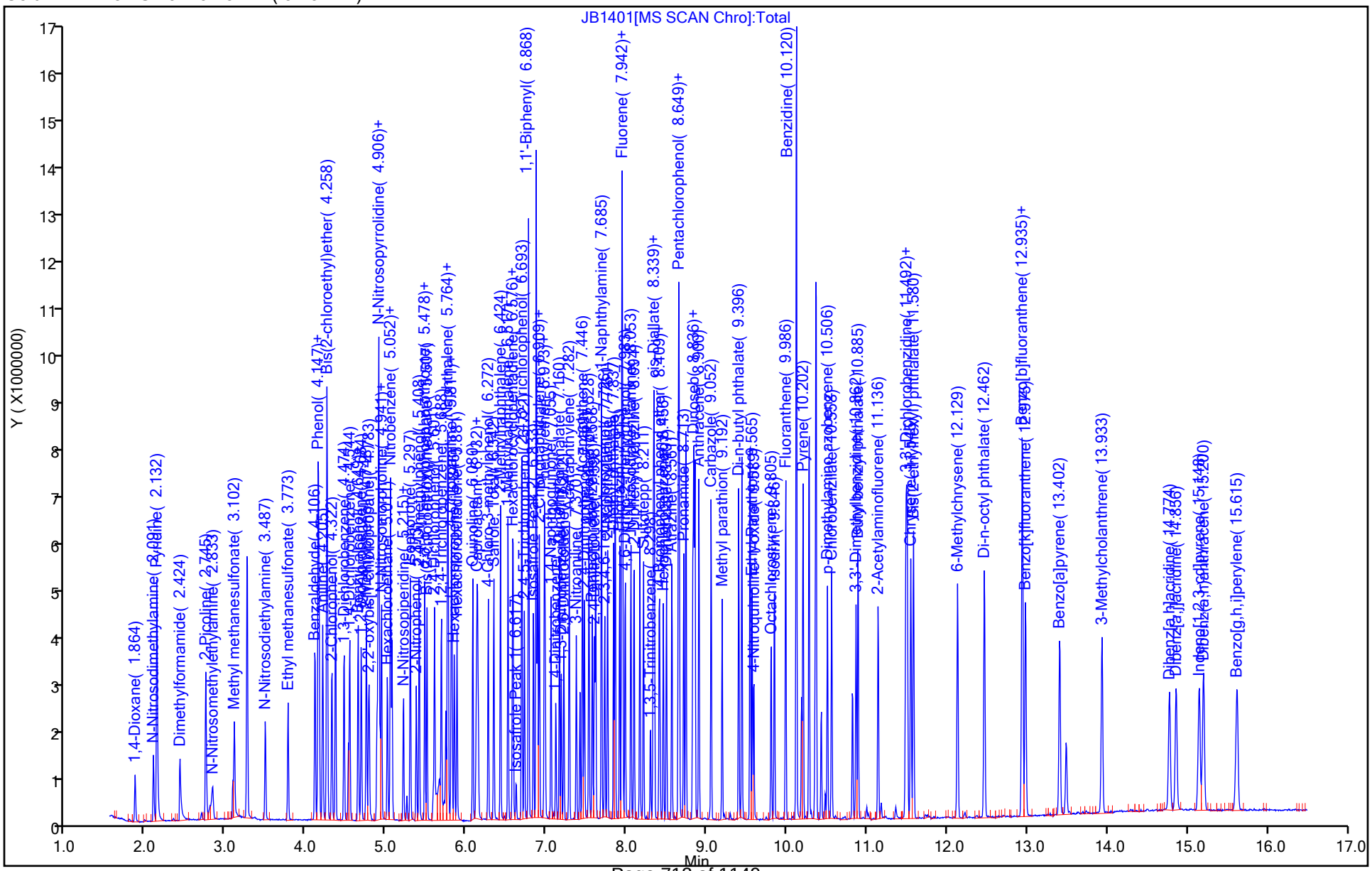
Lims ID: ICIS L6 Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

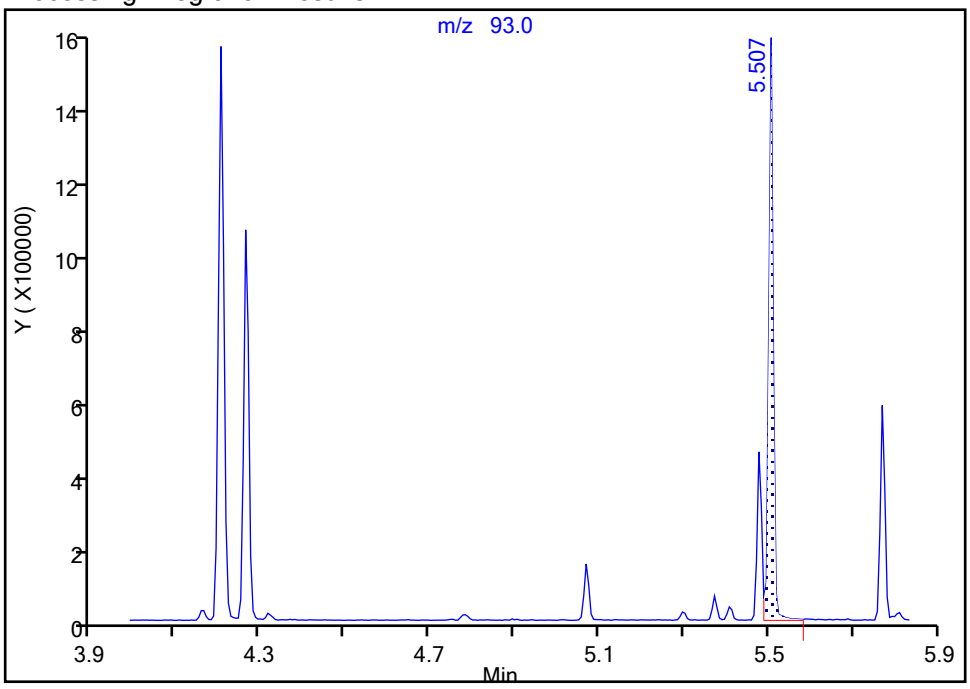
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1401.D
Injection Date: 14-Feb-2022 12:11:30 Instrument ID: HP23264
Lims ID: ICIS L6
Client ID:
Operator ID: apb10206 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

18 Bis(2-chloroethyl)ether, CAS: 111-44-4

Signal: 1

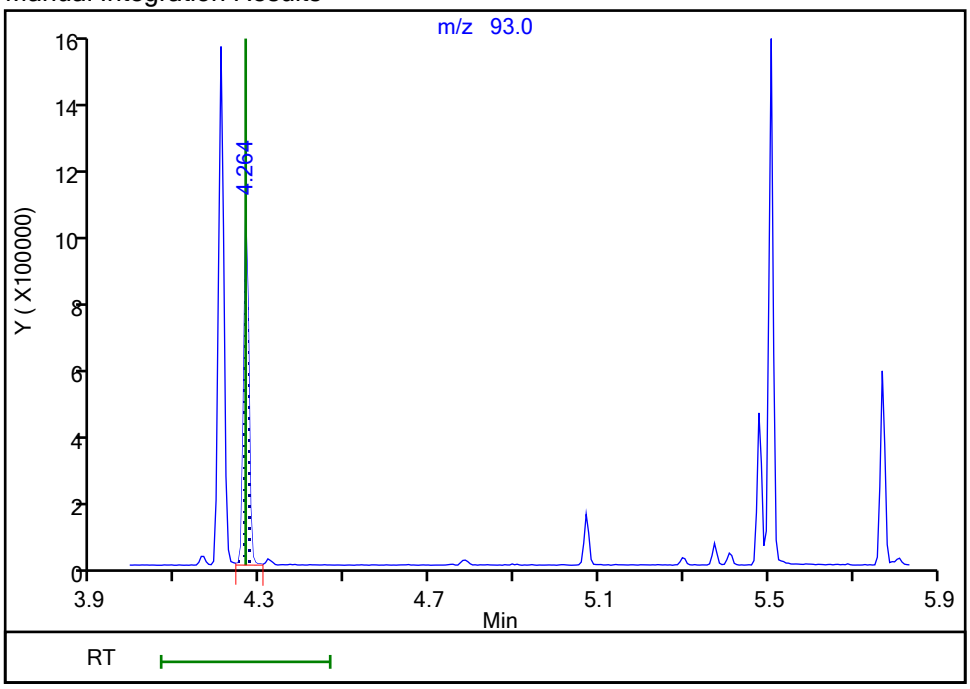
Processing Integration Results

RT: 5.51
Area: 1143632
Amount: 12.532591
Amount Units: ug/ml



Manual Integration Results

RT: 4.26
Area: 884947
Amount: 12.734898
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 14:53:33
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1401a.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 14-Feb-2022 12:32:30 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS L6
Misc. Info.: 410-0050350-002
Operator ID: apb10206 Instrument ID: HP23264
Sublist: chrom-MSSemi_HP23264*sub27

Method: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\MSSemi_HP23264.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Feb-2022 08:32:00 Calib Date: 14-Feb-2022 14:41:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1408.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: bauera Date: 14-Feb-2022 12:57:27

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.864	1.864	0.000	30	6266	0.1250	0.2806	
	2 N-Nitrosodimethylamine	74	2.103	2.091	0.012	71	8035	0.1250	0.1940	
	3 Pyridine	79	2.150	2.132	0.018	73	30148	0.2500	0.4855	
	4 Dimethylformamide	73	2.512	2.424	0.088	48	1296	0.1250	0.0307	
	5 2-Picoline	93	2.757	2.745	0.012	26	7852	0.1250	0.1324	
	6 N-Nitrosomethylethylamine	88	2.821	2.833	-0.012	1	14459	0.1250	0.5648	
	7 Methyl methanesulfonate	80	3.102	3.102	0.000	26	5772	0.1250	0.1554	
$	9 2-Fluorophenol	112	3.253	3.265	-0.012	84	12199	0.2500	0.2438	
	11 N-Nitrosodiethylamine	102	3.487	3.487	0.000	46	2855	0.1250	0.1165	
	12 Ethyl methanesulfonate	109	3.767	3.773	-0.006	68	5055	0.1250	0.1752	
$	15 Phenol-d5	99	4.147	4.147	0.000	46	15661	0.2500	0.2211	
	16 Phenol	94	4.159	4.164	-0.006	61	14269	0.1250	0.1961	
	17 Aniline	93	4.199	4.205	-0.006	93	13444	0.1250	0.1549	
	18 Bis(2-chloroethyl)ether	93	4.258	4.264	-0.006	60	9958	0.1250	0.1764	
	19 2-Chlorophenol	128	4.316	4.322	-0.006	48	8337	0.1250	0.1797	
	21 1,3-Dichlorobenzene	146	4.468	4.474	-0.006	77	5117	0.1250	0.1075	
*	22 1,4-Dichlorobenzene-d4	152	4.521	4.526	-0.005	97	161636	5.00	5.00	
	23 1,4-Dichlorobenzene	146	4.538	4.544	-0.006	86	6468	0.1250	0.1302	
	26 Benzyl alcohol	108	4.742	4.649	0.093	62	8436	0.1250	0.2538	
	27 1,2-Dichlorobenzene	146	4.678	4.684	-0.006	77	6810	0.1250	0.1434	
	29 2-Methylphenol	108	4.894	4.748	0.146	55	6971	0.1250	0.1448	
	30 2,2'-oxybis[1-chloropropane]	45	4.777	4.783	-0.006	47	14226	0.1250	0.1423	
	31 N-Nitrosopyrrolidine	100	4.883	4.883	0.001	43	3539	0.1250	0.1252	
	34 4-Methylphenol	108	5.034	4.894	0.140	3	1051	0.1250	0.0203	
	32 Acetophenone	105	4.900	4.906	-0.006	80	9837	0.1250	0.1219	
	33 N-Nitrosodi-n-propylamine	70	4.900	4.906	-0.006	81	9087	0.1250	0.1747	
	35 N-Nitrosomorpholine	56	4.894	4.923	-0.029	14	2755	0.1250	0.0664	
	36 2-Toluidine	106	4.935	4.941	-0.006	89	11389	0.1250	0.1459	
	37 Hexachloroethane	117	5.005	5.011	-0.006	56	3468	0.1250	0.1444	
$	39 Nitrobenzene-d5	82	5.046	5.052	-0.006	73	19292	0.2500	0.2898	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
40 Nitrobenzene	77	5.064	5.069	-0.005	78	10788	0.1250	0.1588	
41 N-Nitrosopiperidine	114	5.210	5.215	-0.005	30	2942	0.1250	0.1199	
42 Isophorone	82	5.291	5.297	-0.006	92	19472	0.1250	0.1571	
43 2-Nitrophenol	139	5.367	5.373	-0.006	36	3441	0.1250	0.1381	
44 2,4-Dimethylphenol	107	5.408	5.408	0.000	48	7701	0.1250	0.1404	
46 o,o',o''-Triethylphosphorothioat	198	5.472	5.478	-0.006	45	2222	0.1250	0.1113	
47 Bis(2-chloroethoxy)methane	93	5.501	5.507	-0.006	74	9424	0.1250	0.1283	
49 2,4-Dichlorophenol	162	5.601	5.601	0.000	77	4657	0.1250	0.1220	
50 1,2,4-Trichlorobenzene	180	5.682	5.688	-0.006	83	5279	0.1250	0.1307	
* 52 Naphthalene-d8	136	5.735	5.741	-0.006	99	638441	5.00	5.00	
53 Naphthalene	128	5.758	5.764	-0.006	96	15713	0.1250	0.1205	
55 Alpha-Terpineol	59	5.764	5.770	-0.006	52	11395	0.1250	0.1816	
56 4-Chloroaniline	127	5.805	5.811	-0.006	85	9741	0.1250	0.1683	
57 2,6-Dichlorophenol	162	5.811	5.817	-0.006	74	5564	0.1250	0.1521	
58 Hexachloropropene	213	5.846	5.846	0.000	78	3910	0.1250	0.1307	
59 Hexachlorobutadiene	225	5.881	5.881	0.000	9	2268	0.1250	0.0993	
61 Quinoline	129	6.074	6.080	-0.006	91	11775	0.1250	0.1389	
63 N-Nitrosodi-n-butylamine	84	6.132	6.132	0.000	49	10871	0.1250	0.1988	
64 p-Phenylene diamine	108	6.266	6.144	0.122	46	1829	0.1250	0.0461	
65 4-Chloro-3-methylphenol	107	6.424	6.272	0.152	53	1198	0.1250	0.0257	
66 Safrole, Total	162	6.336	6.342	-0.006	46	4692	0.1250	0.1453	
67 2-Methylnaphthalene	142	6.418	6.424	-0.006	86	12294	0.1250	0.1422	
69 1-Methylnaphthalene	142	6.512	6.517	-0.005	88	10049	0.1250	0.1241	
S 24 Dinitrotoluene	165				0			0.0327	
71 Hexachlorocyclopentadiene	237	6.570	6.576	-0.006	86	3560	0.1250	0.1097	
70 1,2,4,5-Tetrachlorobenzene	216	6.582	6.582	0.000	77	3370	0.1250	0.0797	
72 Isosafrole Peak 1	162	6.471	6.623	-0.152	52	208	0.0200	0.005082	
79 2,4,6-Trichlorophenol	196	6.687	6.693	-0.006	72	2434	0.1250	0.0847	
80 2,4,5-Trichlorophenol	196	6.716	6.722	-0.006	50	3915	0.1250	0.1216	
$ 81 2-Fluorobiphenyl (Surr)	172	6.769	6.774	-0.005	98	24940	0.2500	0.2556	
82 Isosafrole Peak 2	162	6.833	6.833	0.000	50	4536	0.1050	0.1042	
83 1,1'-Biphenyl	154	6.862	6.868	-0.006	92	13298	0.1250	0.1185	
84 2-Chloronaphthalene	162	6.885	6.891	-0.006	46	12066	0.1250	0.1406	M
85 1-Chloronaphthalene	162	6.903	6.909	-0.006	53	8190	0.1250	0.0976	M
86 Phenyl ether	170	6.967	6.973	-0.006	76	5874	0.1250	0.1004	
87 2-Nitroaniline	138	6.979	6.985	-0.006	64	4887	0.1250	0.1517	
88 1,4-Naphthoquinone	158	7.049	7.055	-0.006	68	4848	0.1250	0.1297	
89 1,4-Dinitrobenzene	168	7.020	7.113	-0.093	42	413	0.1250	0.0301	
90 Dimethyl phthalate	163	7.154	7.160	-0.006	80	11344	0.1250	0.1075	
91 1,3-Dinitrobenzene	168	7.183	7.183	0.000	35	3308	0.1250	0.2077	
92 2,6-Dinitrotoluene	165	7.125	7.218	-0.093	53	361	0.1250	0.0154	
93 Acenaphthylene	152	7.277	7.282	-0.005	97	18299	0.1250	0.1326	
95 3-Nitroaniline	138	7.528	7.370	0.158	47	621	0.1250	0.0224	
* 96 Acenaphthene-d10	164	7.411	7.417	-0.006	95	359794	5.00	5.00	
97 Acenaphthene	153	7.440	7.446	-0.006	89	10803	0.1250	0.1206	
98 2,4-Dinitrophenol	184	7.469	7.469	0.000	76	15477	1.25	1.08	
100 4-Nitrophenol	109	7.522	7.528	-0.006	95	13640	0.7500	0.6961	
99 Pentachlorobenzene	250	7.569	7.568	0.000	74	3842	0.1250	0.1025	
102 2,4-Dinitrotoluene	165	7.679	7.598	0.081	51	547	0.1250	0.0174	
101 Dibenzofuran	168	7.609	7.609	0.000	93	15272	0.1250	0.1259	
104 1-Naphthylamine	143	7.679	7.685	-0.006	90	11070	0.1250	0.1339	
105 2,3,4,6-Tetrachlorophenol	232	7.679	7.726	-0.047	49	3098	0.1250	0.1211	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
106 2-Naphthylamine	143	7.761	7.761	0.000	90	12283	0.1250	0.1307	
107 Diethyl phthalate	149	7.825	7.837	-0.012	94	15578	0.1250	0.1386	
109 Thionazin	107	7.936	7.913	0.023	44	989	0.1250	0.0468	
108 Fluorene	166	7.936	7.936	0.000	91	13587	0.1250	0.1378	
110 4-Chlorophenyl phenyl ether	204	7.936	7.942	-0.006	75	7281	0.1250	0.1620	
111 N-Nitro-o-toluidine	152	7.936	7.948	-0.012	56	3881	0.1250	0.1350	
112 4-Nitroaniline	138	7.942	7.954	-0.012	42	4773	0.1250	0.1729	
113 4,6-Dinitro-2-methylphenol	198	7.977	7.983	-0.006	74	11463	0.7500	0.6959	
114 N-Nitrosodiphenylamine	169	8.047	8.053	-0.006	74	8856	0.1063	0.1062	
115 1,2-Diphenylhydrazine	77	8.088	8.088	0.000	42	23596	0.1250	0.1573	
$ 116 2,4,6-Tribromophenol	330	8.164	8.164	0.000	77	2981	0.2500	0.2135	
117 Sulfotepp	97	8.117	8.211	-0.094	53	3055	0.1250	0.1072	
118 1,3,5-Trinitrobenzene	213	8.339	8.298	0.041	64	240	0.1250	0.0282	
120 cis-Diallate	86	8.328	8.328	0.000	62	6076	0.0925	0.1096	
119 Phorate	75	8.333	8.339	-0.006	88	11892	0.1250	0.1254	
121 Phenacetin	108	8.339	8.345	-0.006	66	9134	0.1250	0.1526	
122 4-Bromophenyl phenyl ether	248	8.456	8.409	0.047	36	763	0.1250	0.0288	
123 trans-Diallate	86	8.491	8.415	0.076	51	5183	0.0325	0.0880	
124 Hexachlorobenzene	284	8.456	8.456	0.000	50	2972	0.1250	0.1030	
125 Dimethoate	87	8.485	8.497	-0.012	85	7528	0.1250	0.1289	
127 Pentachlorophenol	266	8.643	8.643	0.000	61	4222	0.2500	0.2288	
129 4-Aminobiphenyl	169	8.649	8.649	0.000	88	14550	0.1250	0.1313	
128 Pentachloronitrobenzene	237	8.637	8.655	-0.018	47	1229	0.1250	0.0796	
130 Pronamide	173	8.707	8.713	-0.006	83	5749	0.1250	0.1210	
133 Dinoseb	211	8.818	8.824	-0.006	60	2697	0.1250	0.1110	
* 131 Phenanthrene-d10	188	8.824	8.830	-0.006	97	678213	5.00	5.00	
134 Disulfoton	88	8.830	8.836	-0.006	53	20351	0.1250	0.2320	
132 Phenanthrene	178	8.847	8.853	-0.006	92	21942	0.1250	0.1444	
135 Anthracene	178	8.900	8.900	0.000	96	18235	0.1250	0.1233	M
136 Carbazole	167	9.046	9.052	-0.006	94	19930	0.1250	0.1438	
137 Methyl parathion	109	9.186	9.192	-0.006	83	6967	0.1250	0.1619	
138 Di-n-butyl phthalate	149	9.390	9.396	-0.006	98	23598	0.1250	0.1251	
139 Ethyl Parathion	109	9.560	9.565	-0.005	51	5732	0.1250	0.2126	
140 4-Nitroquinoline-1-oxide	190	9.548	9.589	-0.041	1	2782	0.1250	0.1776	
S 68 Diallate	86				0		0.1250	0.1976	
142 Octachlorostyrene	308	9.799	9.805	-0.006	1	1067	0.1250	0.0839	
143 Isodrin	193	9.840	9.846	-0.006	12	4959	0.1250	0.2498	
144 Fluoranthene	202	9.980	9.986	-0.006	98	20413	0.1250	0.1308	
145 Benzidine	184	10.108	10.120	-0.012	98	36861	0.3750	0.3277	
* 146 Pyrene-d10 (IS)	212	10.179	10.184	-0.005	97	650017	5.00	5.00	
147 Pyrene	202	10.196	10.202	-0.006	97	23739	0.1250	0.1428	
$ 148 p-Terphenyl-d14	244	10.360	10.365	-0.005	97	27907	0.2500	0.2627	
149 p-Dimethylamino azobenzene	225	10.500	10.506	-0.006	71	3280	0.1250	0.1397	
150 Chlorobenzilate	139	10.552	10.558	-0.006	81	8230	0.1250	0.1300	
152 3,3'-Dimethylbenzidine	212	10.856	10.862	-0.006	52	10706	0.1250	0.1350	
153 Butyl benzyl phthalate	149	10.885	10.885	0.000	56	11534	0.1250	0.1367	
155 2-Acetylaminofluorene	181	11.130	11.136	-0.006	84	7259	0.1250	0.1204	
S 94 Isosafrole	162				0		0.1250	0.1093	
157 3,3'-Dichlorobenzidine	252	11.475	11.481	-0.006	54	8495	0.1250	0.1533	
158 4,4'-Methylene bis(2-chloroani	231	11.487	11.492	-0.006	66	4656	0.1250	0.1727	
156 Benzo[a]anthracene	228	11.498	11.504	-0.006	95	17917	0.1250	0.1320	
159 Chrysene	228	11.539	11.545	-0.006	84	17159	0.1250	0.1343	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
160 Bis(2-ethylhexyl) phthalate	149	11.574	11.580	-0.006	92	19225	0.1250	0.1604	
161 6-Methylchrysene	242	12.117	12.129	-0.012	97	14482	0.1250	0.1521	
162 Di-n-octyl phthalate	149	12.456	12.462	-0.006	94	27717	0.1250	0.1274	
164 Benzo[b]fluoranthene	252	12.929	12.935	-0.006	96	18061	0.1250	0.1216	
163 7,12-Dimethylbenz(a)anthracene	256	12.929	12.935	-0.006	69	8602	0.1250	0.1370	
165 Benzo[k]fluoranthene	252	12.964	12.975	-0.011	93	16552	0.1250	0.1171	
166 Benzo[a]pyrene	252	13.396	13.402	-0.006	50	17077	0.1250	0.1312	
* 167 Perylene-d12	264	13.478	13.483	-0.005	97	588488	5.00	5.00	
168 3-Methylcholanthrene	268	13.921	13.933	-0.012	54	8240	0.1250	0.1194	
169 Dibenz[a,h]acridine	279		14.774				ND	ND	
170 Dibenz[a,j]acridine	279	14.844	14.861	-0.017	93	15200	0.1250	0.1394	
171 Indeno[1,2,3-cd]pyrene	276	15.136	15.148	-0.012	80	15017	0.1250	0.1266	
172 Dibenz(a,h)anthracene	278	15.188	15.200	-0.012	11	16745	0.1250	0.1337	
173 Benzo[g,h,i]perylene	276	15.597	15.615	-0.018	74	16212	0.1250	0.1255	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_1_00020 Amount Added: 1.00 Units: mL

Report Date: 15-Feb-2022 08:32:00 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1401a.D

Injection Date: 14-Feb-2022 12:32:30 Instrument ID: HP23264 Operator ID: apb10206

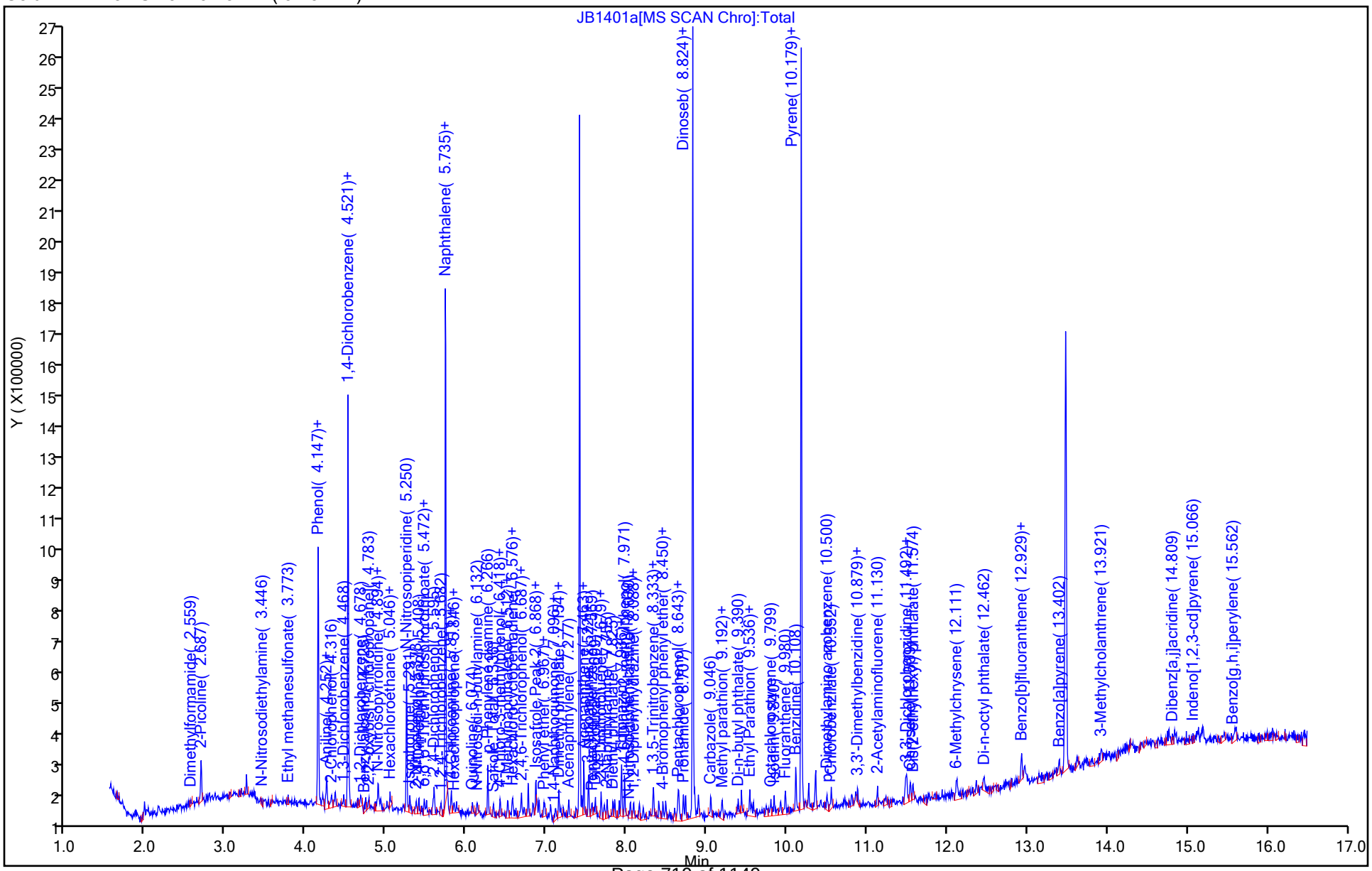
Lims ID: IC L1 Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

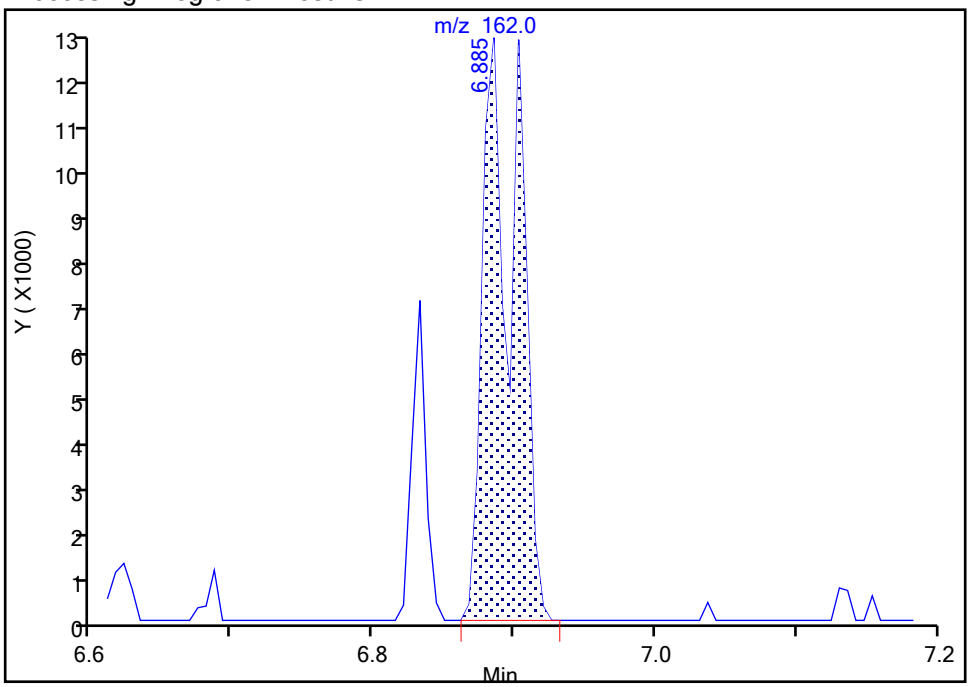
Data File:	\\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1401a.D				
Injection Date:	14-Feb-2022 12:32:30	Instrument ID:	HP23264		
Lims ID:	IC L1				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

84 2-Chloronaphthalene, CAS: 91-58-7

Signal: 1

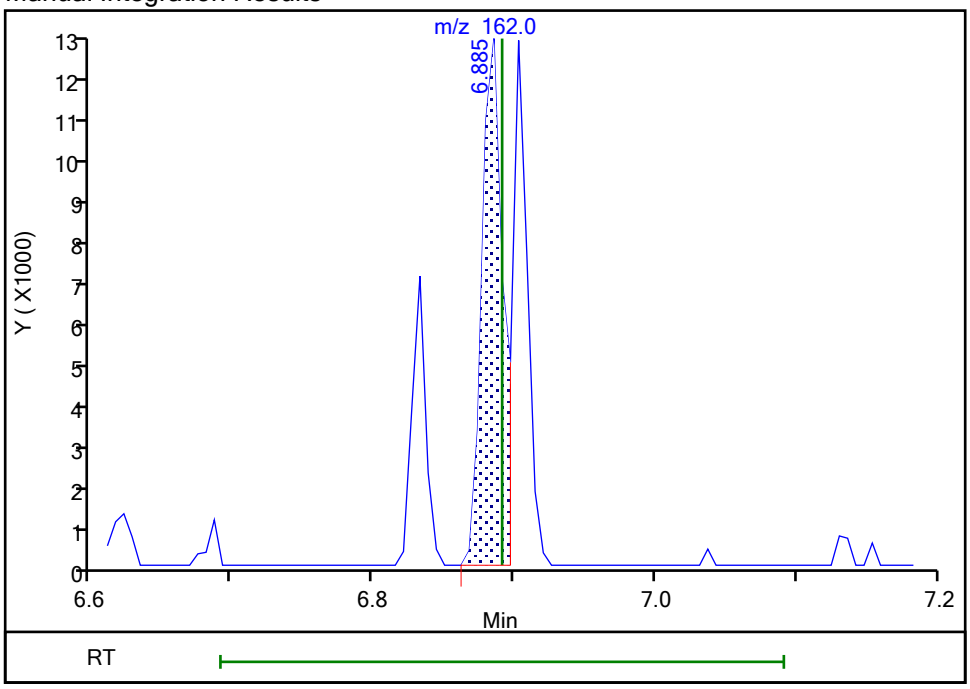
Processing Integration Results

RT: 6.89
Area: 20256
Amount: 0.153953
Amount Units: ug/ml



Manual Integration Results

RT: 6.89
Area: 12066
Amount: 0.140600
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 14:57:00

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

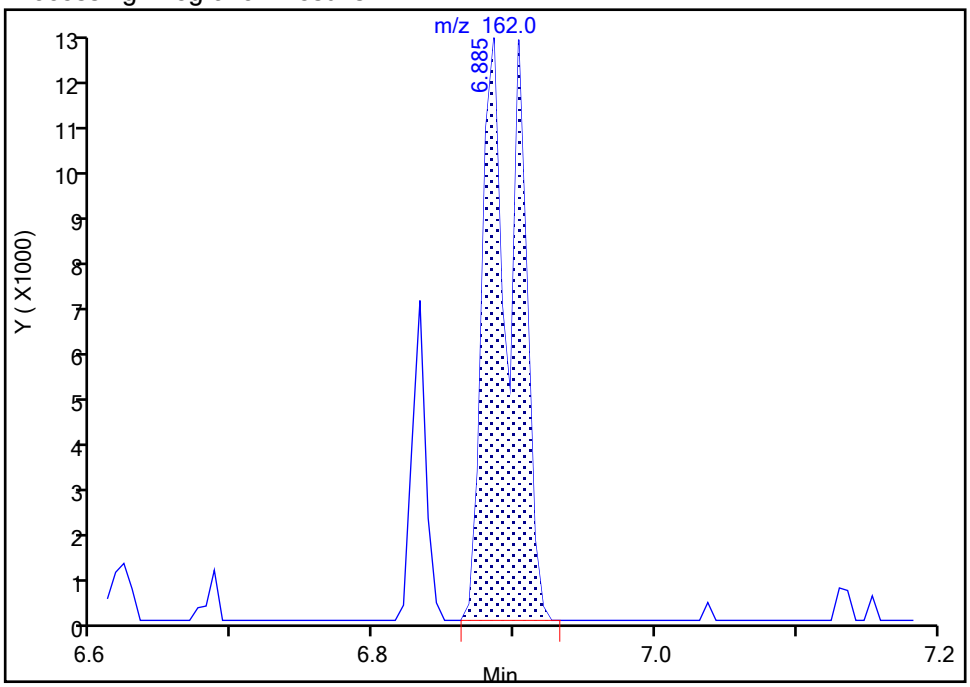
Data File:	\\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1401a.D				
Injection Date:	14-Feb-2022 12:32:30	Instrument ID:	HP23264		
Lims ID:	IC L1				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

85 1-Chloronaphthalene, CAS: 90-13-1

Signal: 1

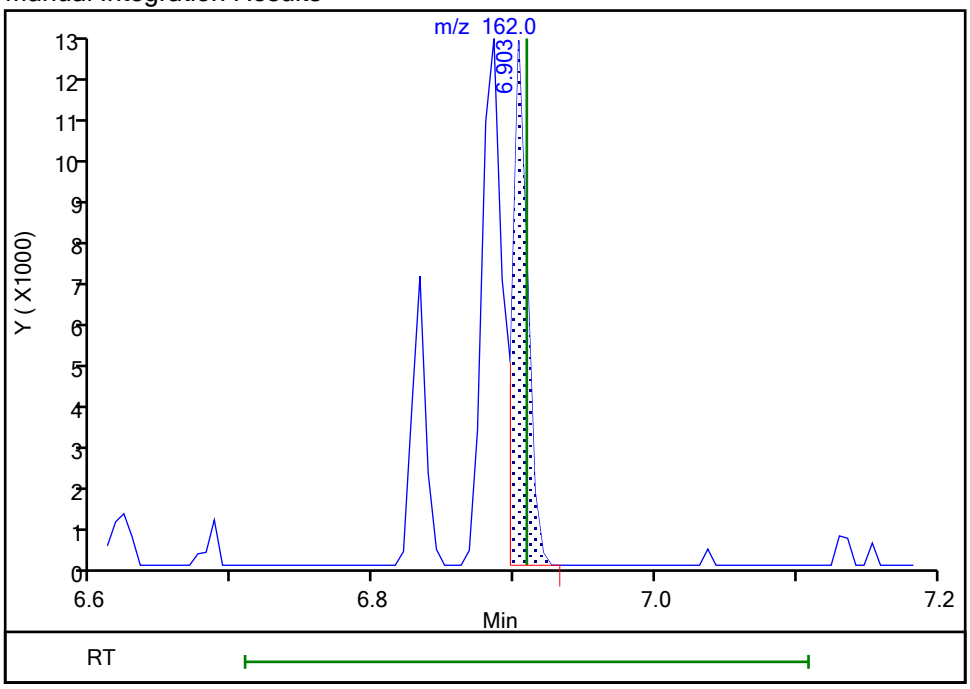
Processing Integration Results

RT: 6.89
Area: 20256
Amount: 0.153698
Amount Units: ug/ml



Manual Integration Results

RT: 6.90
Area: 8190
Amount: 0.097631
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 14:57:06

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

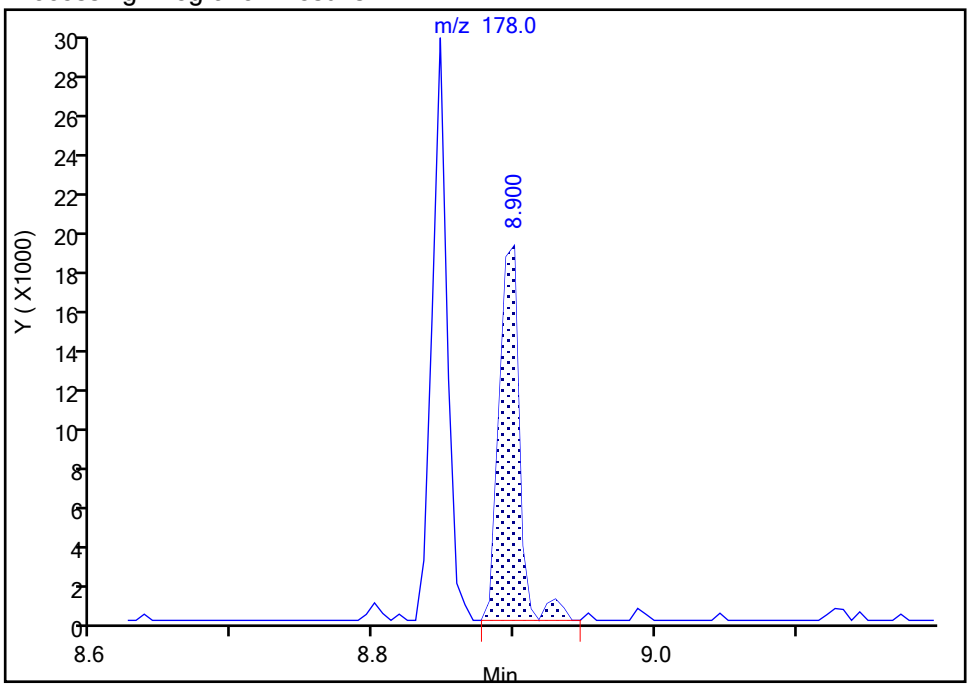
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1401a.D
Injection Date: 14-Feb-2022 12:32:30 Instrument ID: HP23264
Lims ID: IC L1
Client ID:
Operator ID: apb10206 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

135 Anthracene, CAS: 120-12-7

Signal: 1

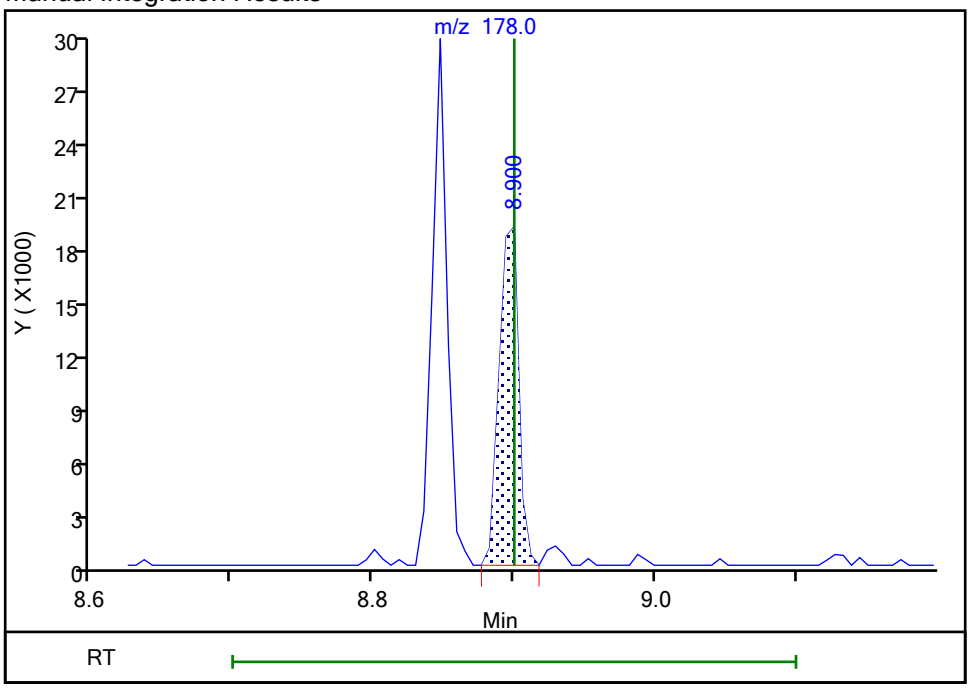
Processing Integration Results

RT: 8.90
Area: 19126
Amount: 0.442370
Amount Units: ug/ml



Manual Integration Results

RT: 8.90
Area: 18235
Amount: 0.123325
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 14:59:27
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1403.D
Lims ID: IC L8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 14-Feb-2022 12:55:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L8
Misc. Info.: 410-0050350-004
Operator ID: apb10206 Instrument ID: HP23264
Sublist: chrom-MSSemi_HP23264*sub27

Method: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\MSSemi_HP23264.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Feb-2022 08:32:05 Calib Date: 14-Feb-2022 14:41:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1408.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: bauera Date: 14-Feb-2022 15:01:37

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.858	1.864	-0.006	96	748651	30.0	28.3	
	2 N-Nitrosodimethylamine	74	2.086	2.091	-0.005	95	1402019	30.0	28.6	
	3 Pyridine	79	2.127	2.132	-0.005	92	4558688	60.0	62.1	
	4 Dimethylformamide	73	2.413	2.424	-0.011	98	1593681	30.0	31.9	
	5 2-Picoline	93	2.740	2.745	-0.005	93	2085019	30.0	29.7	
	6 N-Nitrosomethylethylamine	88	2.827	2.833	-0.006	97	859901	30.0	28.4	
	7 Methyl methanesulfonate	80	3.102	3.102	0.000	86	1316967	30.0	30.0	
$	9 2-Fluorophenol	112	3.265	3.265	0.000	96	3624270	60.0	61.3	
	11 N-Nitrosodiethylamine	102	3.487	3.487	0.000	89	838375	30.0	28.9	
	12 Ethyl methanesulfonate	109	3.773	3.773	0.000	95	956179	30.0	28.0	
	13 Benzaldehyde	77	4.106	4.106	0.000	92	2030886	30.0	30.3	
$	15 Phenol-d5	99	4.153	4.147	0.006	99	5209550	60.0	62.2	
	16 Phenol	94	4.165	4.164	0.001	97	2613869	30.0	30.4	
	17 Aniline	93	4.205	4.205	0.000	96	3167074	30.0	30.9	
	18 Bis(2-chloroethyl)ether	93	4.264	4.264	0.000	89	1998513	30.0	29.9	
	19 2-Chlorophenol	128	4.316	4.322	-0.006	92	1677408	30.0	30.6	
	21 1,3-Dichlorobenzene	146	4.468	4.474	-0.006	94	1726540	30.0	30.7	
*	22 1,4-Dichlorobenzene-d4	152	4.527	4.526	0.001	97	191146	5.00	5.00	
	23 1,4-Dichlorobenzene	146	4.538	4.544	-0.006	89	1752533	30.0	29.8	
	26 Benzyl alcohol	108	4.649	4.649	0.000	89	1233388	30.0	31.4	
	27 1,2-Dichlorobenzene	146	4.684	4.684	0.000	93	1661219	30.0	29.6	
	29 2-Methylphenol	108	4.748	4.748	0.000	98	1685835	30.0	29.6	
	30 2,2'-oxybis[1-chloropropane]	45	4.778	4.783	-0.005	93	3510070	30.0	29.7	
	31 N-Nitrosopyrrolidine	100	4.883	4.883	0.001	90	975624	30.0	29.2	
	34 4-Methylphenol	108	4.900	4.894	0.006	95	1790167	30.0	29.3	
	32 Acetophenone	105	4.906	4.906	0.000	91	2834043	30.0	29.7	
	33 N-Nitrosodi-n-propylamine	70	4.906	4.906	0.000	84	1789382	30.0	29.1	
	35 N-Nitrosomorpholine	56	4.924	4.923	0.001	88	1429931	30.0	29.1	
	36 2-Toluidine	106	4.941	4.941	0.000	95	2752296	30.0	29.8	
	37 Hexachloroethane	117	5.011	5.011	0.000	97	797652	30.0	28.1	

Report Date: 15-Feb-2022 08:32:06 Chrom Revision: 2.3 18-Jan-2022 20:25:40
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1403.D

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 39 Nitrobenzene-d5	82	5.052	5.052	0.000	90	4788726	60.0	62.2	
40 Nitrobenzene	77	5.070	5.069	0.001	87	2390989	30.0	30.4	
41 N-Nitrosopiperidine	114	5.216	5.215	0.001	81	838980	30.0	29.6	
42 Isophorone	82	5.297	5.297	0.000	98	4349705	30.0	30.3	
43 2-Nitrophenol	139	5.373	5.373	0.000	93	879567	30.0	30.5	
44 2,4-Dimethylphenol	107	5.408	5.408	0.000	99	1953313	30.0	30.8	
46 o,o',o''-Triethylphosphorothioat	198	5.478	5.478	0.000	95	705842	30.0	30.6	
47 Bis(2-chloroethoxy)methane	93	5.508	5.507	0.001	93	2615292	30.0	30.8	
49 2,4-Dichlorophenol	162	5.601	5.601	0.000	96	1371144	30.0	31.1	
50 1,2,4-Trichlorobenzene	180	5.683	5.688	-0.005	93	1454238	30.0	31.1	
* 52 Naphthalene-d8	136	5.741	5.741	0.000	99	738564	5.00	5.00	
53 Naphthalene	128	5.759	5.764	-0.005	98	4643194	30.0	30.8	
55 Alpha-Terpineol	59	5.770	5.770	0.000	91	2279421	30.0	31.4	
56 4-Chloroaniline	127	5.811	5.811	0.000	93	2109801	30.0	31.5	
57 2,6-Dichlorophenol	162	5.817	5.817	0.000	91	1310309	30.0	31.0	
58 Hexachloropropene	213	5.846	5.846	0.000	97	1094317	30.0	31.6	
59 Hexachlorobutadiene	225	5.881	5.881	0.000	97	826173	30.0	31.3	
61 Quinoline	129	6.080	6.080	0.000	94	2947928	30.0	30.1	
62 Caprolactam	113	6.144	6.126	0.018	74	820131	30.0	44.5	
63 N-Nitrosodi-n-butylamine	84	6.138	6.132	0.006	91	2087381	30.0	33.0	
64 p-Phenylene diamine	108	6.150	6.144	0.006	92	1378879	30.0	30.0	
65 4-Chloro-3-methylphenol	107	6.272	6.272	0.000	94	1626263	30.0	30.2	
66 Safrole, Total	162	6.342	6.342	0.000	82	1170527	30.0	31.3	
67 2-Methylnaphthalene	142	6.424	6.424	0.000	91	2992262	30.0	29.9	
69 1-Methylnaphthalene	142	6.518	6.517	0.001	91	2845640	30.0	30.4	
S 24 Dinitrotoluene	165				0			62.4	
71 Hexachlorocyclopentadiene	237	6.570	6.576	-0.006	97	1106493	30.0	32.4	
70 1,2,4,5-Tetrachlorobenzene	216	6.582	6.582	0.000	98	1420286	30.0	31.9	
72 Isosafrole Peak 1	162	6.617	6.623	-0.006	81	199871	4.80	4.64	
79 2,4,6-Trichlorophenol	196	6.687	6.693	-0.006	83	988111	30.0	32.7	
80 2,4,5-Trichlorophenol	196	6.722	6.722	0.000	92	1089894	30.0	32.1	
$ 81 2-Fluorobiphenyl (Surr)	172	6.775	6.774	0.001	98	6354176	60.0	61.8	e
82 Isosafrole Peak 2	162	6.833	6.833	0.000	85	1186588	25.2	25.9	
83 1,1'-Biphenyl	154	6.868	6.868	0.000	95	3665492	30.0	31.0	
84 2-Chloronaphthalene	162	6.886	6.891	-0.005	96	2756024	30.0	30.5	
85 1-Chloronaphthalene	162	6.909	6.909	0.000	96	2797991	30.0	31.7	
86 Phenyl ether	170	6.973	6.973	0.000	87	1852633	30.0	30.1	
87 2-Nitroaniline	138	6.985	6.985	0.000	76	1038516	30.0	30.6	
88 1,4-Naphthoquinone	158	7.055	7.055	0.000	76	1212534	30.0	30.8	
89 1,4-Dinitrobenzene	168	7.119	7.113	0.006	85	422683	30.0	29.2	
90 Dimethyl phthalate	163	7.160	7.160	0.000	96	3386551	30.0	30.5	
91 1,3-Dinitrobenzene	168	7.183	7.183	0.000	80	509507	30.0	30.4	
92 2,6-Dinitrotoluene	165	7.218	7.218	0.000	88	776113	30.0	31.3	
93 Acenaphthylene	152	7.283	7.282	0.001	99	4503209	30.0	31.0	
95 3-Nitroaniline	138	7.370	7.370	0.000	88	915548	30.0	31.4	
* 96 Acenaphthene-d10	164	7.417	7.417	0.000	96	378916	5.00	5.00	
97 Acenaphthene	153	7.446	7.446	0.000	98	3007988	30.0	31.9	
98 2,4-Dinitrophenol	184	7.475	7.469	0.006	80	1010360	60.0	66.8	
100 4-Nitrophenol	109	7.534	7.528	0.006	91	1350971	60.0	65.5	
99 Pentachlorobenzene	250	7.569	7.568	0.001	97	1200063	30.0	30.4	
102 2,4-Dinitrotoluene	165	7.598	7.598	0.000	92	1030096	30.0	31.1	
101 Dibenzofuran	168	7.610	7.609	0.001	96	3955720	30.0	31.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
104 1-Naphthylamine	143	7.685	7.685	0.000	98	2707206	30.0	31.1	
105 2,3,4,6-Tetrachlorophenol	232	7.726	7.726	0.000	78	835978	30.0	31.0	
106 2-Naphthylamine	143	7.761	7.761	0.000	95	3064822	30.0	31.0	
107 Diethyl phthalate	149	7.837	7.837	0.000	96	3668053	30.0	31.0	
109 Thionazin	107	7.913	7.913	0.000	75	642943	30.0	28.9	
108 Fluorene	166	7.937	7.936	0.001	93	3157322	30.0	30.4	
110 4-Chlorophenyl phenyl ether	204	7.942	7.942	0.000	89	1474730	30.0	31.2	
111 N-Nitro-o-toluidine	152	7.948	7.948	0.000	82	917993	30.0	30.3	
112 4-Nitroaniline	138	7.954	7.954	0.000	78	921391	30.0	31.7	
113 4,6-Dinitro-2-methylphenol	198	7.983	7.983	0.000	71	1114111	60.0	62.9	
114 N-Nitrosodiphenylamine	169	8.053	8.053	0.000	66	2270679	25.5	25.3	
115 1,2-Diphenylhydrazine	77	8.088	8.088	0.000	42	4831407	30.0	29.9	
$ 116 2,4,6-Tribromophenol	330	8.164	8.164	0.000	86	968167	60.0	65.8	
117 Sulfotepp	97	8.205	8.211	-0.006	76	844479	30.0	27.5	
118 1,3,5-Trinitrobenzene	213	8.299	8.298	0.001	81	288907	30.0	31.5	
120 cis-Diallate	86	8.328	8.328	0.000	91	1364275	22.2	22.9	
119 Phorate	75	8.339	8.339	0.000	94	3098374	30.0	30.4	
121 Phenacetin	108	8.351	8.345	0.006	89	2013525	30.0	31.3	
122 4-Bromophenyl phenyl ether	248	8.404	8.409	-0.005	74	859979	30.0	30.2	
123 trans-Diallate	86	8.415	8.415	0.000	96	491988	7.80	7.76	
124 Hexachlorobenzene	284	8.456	8.456	0.000	91	943728	30.0	30.4	
125 Dimethoate	87	8.497	8.497	0.000	96	1829051	30.0	29.1	
126 Atrazine	200	8.567	8.561	0.006	84	1462139	30.0	43.0	
127 Pentachlorophenol	266	8.643	8.643	0.000	90	1320967	60.0	66.6	
129 4-Aminobiphenyl	169	8.649	8.649	0.000	92	3609861	30.0	30.3	
128 Pentachloronitrobenzene	237	8.655	8.655	0.000	81	507971	30.0	30.6	
130 Pronamide	173	8.713	8.713	0.000	90	1551287	30.0	30.4	
133 Dinoseb	211	8.824	8.824	0.000	91	836033	30.0	32.0	
* 131 Phenanthrene-d10	188	8.830	8.830	0.000	96	729422	5.00	5.00	
134 Disulfoton	88	8.836	8.836	0.000	97	2748771	30.0	29.1	
132 Phenanthrene	178	8.853	8.853	0.000	98	4751853	30.0	29.1	
135 Anthracene	178	8.900	8.900	0.000	99	4917079	30.0	30.9	
136 Carbazole	167	9.052	9.052	0.000	96	4525496	30.0	30.4	
137 Methyl parathion	109	9.192	9.192	0.000	89	1434470	30.0	31.0	
138 Di-n-butyl phthalate	149	9.396	9.396	0.000	99	6132787	30.0	30.2	e
139 Ethyl Parathion	109	9.566	9.565	0.001	81	894759	30.0	30.9	
140 4-Nitroquinoline-1-oxide	190	9.589	9.589	0.000	90	580378	30.0	34.4	
S 68 Diallate	86				0		30.0	30.7	
142 Octachlorostyrene	308	9.799	9.805	-0.006	89	414896	30.0	30.3	
143 Isodrin	193	9.840	9.846	-0.006	91	598493	30.0	28.0	
144 Fluoranthene	202	9.986	9.986	0.000	99	5102912	30.0	30.4	
145 Benzidine	184	10.120	10.120	0.000	96	9255090	90.0	79.0	e
* 146 Pyrene-d10 (IS)	212	10.179	10.184	-0.005	98	677145	5.00	5.00	
147 Pyrene	202	10.202	10.202	0.000	96	5217094	30.0	30.1	
$ 148 p-Terphenyl-d14	244	10.366	10.365	0.001	99	6778471	60.0	61.3	
149 p-Dimethylamino azobenzene	225	10.506	10.506	0.000	91	748700	30.0	30.6	
150 Chlorobenzilate	139	10.558	10.558	0.000	83	1997227	30.0	30.3	
152 3,3'-Dimethylbenzidine	212	10.862	10.862	0.000	98	2200010	30.0	26.6	
153 Butyl benzyl phthalate	149	10.885	10.885	0.000	95	2721114	30.0	31.0	
155 2-Acetylaminofluorene	181	11.142	11.136	0.006	92	2035368	30.0	32.4	
S 94 Isosafrole	162				0		30.0	30.5	
157 3,3'-Dichlorobenzidine	252	11.481	11.481	0.000	79	1769637	30.0	30.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
158 4,4'-Methylene bis(2-chloroanil	231	11.493	11.492	0.001	93	828129	30.0	29.5	
156 Benzo[a]anthracene	228	11.504	11.504	0.000	100	4329240	30.0	30.6	
159 Chrysene	228	11.545	11.545	0.000	97	4049990	30.0	30.4	
160 Bis(2-ethylhexyl) phthalate	149	11.574	11.580	-0.006	96	3862788	30.0	30.9	
161 6-Methylchrysene	242	12.129	12.129	0.000	99	3101248	30.0	31.3	
162 Di-n-octyl phthalate	149	12.462	12.462	0.000	99	7054539	30.0	33.0	
164 Benzo[b]fluoranthene	252	12.941	12.935	0.006	96	4602103	30.0	31.5	
163 7,12-Dimethylbenz(a)anthracene	256	12.941	12.935	0.006	75	1974338	30.0	32.0	
165 Benzo[k]fluoranthene	252	12.981	12.975	0.006	99	4437409	30.0	31.9	
166 Benzo[a]pyrene	252	13.408	13.402	0.006	79	4008884	30.0	31.3	
* 167 Perylene-d12	264	13.484	13.483	0.001	96	578687	5.00	5.00	
168 3-Methylcholanthrene	268	13.933	13.933	0.000	91	2104100	30.0	31.0	
169 Dibenz[a,h]acridine	279	14.774	14.774	0.000	92	3117823	30.0	31.4	
170 Dibenz[a,j]acridine	279	14.862	14.861	0.001	96	3277630	30.0	30.6	
171 Indeno[1,2,3-cd]pyrene	276	15.154	15.148	0.006	98	3783677	30.0	32.4	
172 Dibenz(a,h)anthracene	278	15.206	15.200	0.006	96	3959027	30.0	32.1	
173 Benzo[g,h,i]perylene	276	15.627	15.615	0.012	95	4040667	30.0	31.8	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Reagents:

MSS_RV8270_8_00020 Amount Added: 1.00 Units: mL

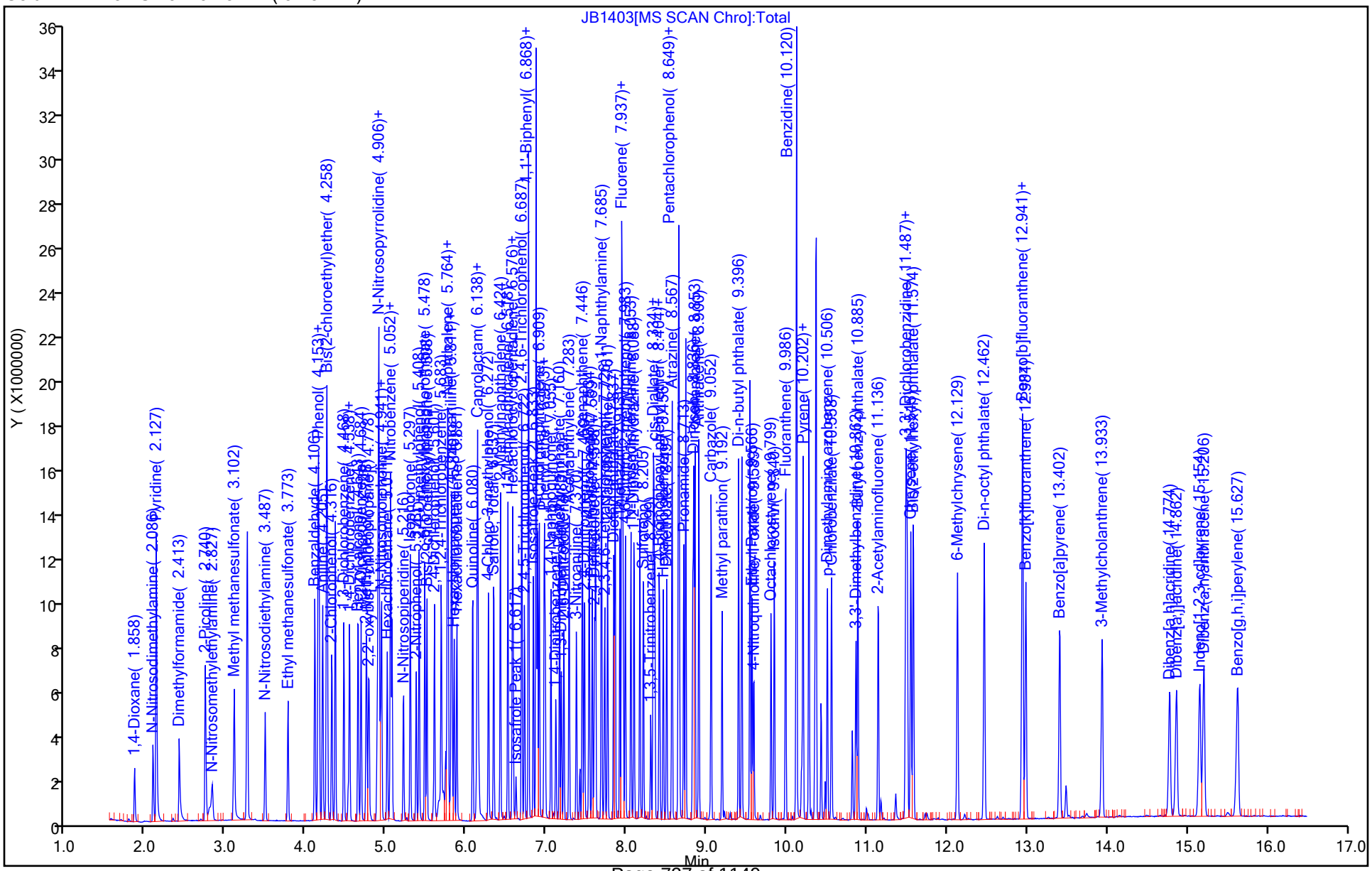
Report Date: 15-Feb-2022 08:32:06 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1403.D

Injection Date:	14-Feb-2022 12:55:30	Instrument ID:	HP23264	Operator ID:	apb10206
Lims ID:	IC L8			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1404.D
Lims ID: IC L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 14-Feb-2022 13:16:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L7
Misc. Info.: 410-0050350-005
Operator ID: apb10206 Instrument ID: HP23264
Sublist: chrom-MSSemi_HP23264*sub27

Method: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\MSSemi_HP23264.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Feb-2022 08:32:13 Calib Date: 14-Feb-2022 14:41:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1408.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: bauera Date: 14-Feb-2022 15:06:24

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.858	1.864	-0.006	96	470298	20.0	19.2	
	2 N-Nitrosodimethylamine	74	2.086	2.091	-0.005	94	903144	20.0	19.9	
	3 Pyridine	79	2.127	2.132	-0.005	91	2839139	40.0	41.7	
	4 Dimethylformamide	73	2.413	2.424	-0.011	98	967818	20.0	20.9	
	5 2-Picoline	93	2.740	2.745	-0.005	93	1309656	20.0	20.1	
	6 N-Nitrosomethylethylamine	88	2.821	2.833	-0.012	96	543595	20.0	19.4	
	7 Methyl methanesulfonate	80	3.096	3.102	-0.006	86	838796	20.0	20.6	
$	9 2-Fluorophenol	112	3.259	3.265	-0.006	97	2263534	40.0	41.3	
	11 N-Nitrosodiethylamine	102	3.487	3.487	0.000	91	539042	20.0	20.1	
	12 Ethyl methanesulfonate	109	3.767	3.773	-0.006	95	609702	20.0	19.3	
	13 Benzaldehyde	77	4.106	4.106	0.000	91	987563	20.0	15.9	
$	15 Phenol-d5	99	4.147	4.147	0.000	98	3330357	40.0	42.9	
	16 Phenol	94	4.159	4.164	-0.005	97	1651941	20.0	20.7	
	17 Aniline	93	4.200	4.205	-0.005	96	2033744	20.0	21.4	
	18 Bis(2-chloroethyl)ether	93	4.264	4.264	0.000	88	1291731	20.0	20.9	
	19 2-Chlorophenol	128	4.316	4.322	-0.006	92	1076828	20.0	21.2	
	21 1,3-Dichlorobenzene	146	4.468	4.474	-0.006	94	1092441	20.0	20.9	
*	22 1,4-Dichlorobenzene-d4	152	4.521	4.526	-0.005	95	177203	5.00	5.00	
	23 1,4-Dichlorobenzene	146	4.538	4.544	-0.006	90	1113465	20.0	20.5	
	26 Benzyl alcohol	108	4.643	4.649	-0.006	89	767903	20.0	21.1	
	27 1,2-Dichlorobenzene	146	4.684	4.684	0.000	93	1075382	20.0	20.7	
	29 2-Methylphenol	108	4.748	4.748	0.000	97	1086381	20.0	20.6	
	30 2,2'-oxybis[1-chloropropane]	45	4.778	4.783	-0.005	93	2262950	20.0	20.7	
	31 N-Nitrosopyrrolidine	100	4.877	4.883	-0.005	87	644180	20.0	20.8	
	34 4-Methylphenol	108	4.894	4.894	0.000	94	1147522	20.0	20.3	
	32 Acetophenone	105	4.900	4.906	-0.006	89	1805181	20.0	20.4	
	33 N-Nitrosodi-n-propylamine	70	4.900	4.906	-0.006	81	1160775	20.0	20.4	
	35 N-Nitrosomorpholine	56	4.918	4.923	-0.005	90	933002	20.0	20.5	
	36 2-Toluidine	106	4.935	4.941	-0.006	95	1773141	20.0	20.7	
	37 Hexachloroethane	117	5.011	5.011	0.000	96	521726	20.0	19.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 39 Nitrobenzene-d5	82	5.046	5.052	-0.006	90	3080912	40.0	41.5	
40 Nitrobenzene	77	5.070	5.069	0.001	88	1531264	20.0	20.2	
41 N-Nitrosopiperidine	114	5.210	5.215	-0.005	82	549384	20.0	20.1	
42 Isophorone	82	5.297	5.297	0.000	98	2826607	20.0	20.4	
43 2-Nitrophenol	139	5.367	5.373	-0.006	93	565006	20.0	20.3	
44 2,4-Dimethylphenol	107	5.408	5.408	0.000	99	1261921	20.0	20.6	
46 o,o',o''-Triethylphosphorothioat	198	5.478	5.478	0.000	94	468742	20.0	21.1	
47 Bis(2-chloroethoxy)methane	93	5.502	5.507	-0.005	93	1679896	20.0	20.5	
49 2,4-Dichlorophenol	162	5.595	5.601	-0.006	97	873891	20.0	20.5	
50 1,2,4-Trichlorobenzene	180	5.683	5.688	-0.005	93	951911	20.0	21.1	
* 52 Naphthalene-d8	136	5.741	5.741	0.000	99	712114	5.00	5.00	
53 Naphthalene	128	5.759	5.764	-0.005	98	3005643	20.0	20.7	
55 Alpha-Terpineol	59	5.770	5.770	0.000	91	1436862	20.0	20.5	
56 4-Chloroaniline	127	5.805	5.811	-0.006	93	1348981	20.0	20.9	
57 2,6-Dichlorophenol	162	5.817	5.817	0.000	92	838340	20.0	20.5	
58 Hexachloropropene	213	5.846	5.846	0.000	96	700376	20.0	21.0	
59 Hexachlorobutadiene	225	5.875	5.881	-0.006	97	517237	20.0	20.3	
61 Quinoline	129	6.074	6.080	-0.006	94	1905537	20.0	20.2	
62 Caprolactam	113	6.126	6.126	0.000	69	335397	20.0	18.9	
63 N-Nitrosodi-n-butylamine	84	6.132	6.132	0.000	92	1193108	20.0	19.6	
64 p-Phenylene diamine	108	6.144	6.144	0.000	93	936892	20.0	21.2	
65 4-Chloro-3-methylphenol	107	6.267	6.272	-0.005	95	1056390	20.0	20.4	
66 Safrole, Total	162	6.337	6.342	-0.005	79	730360	20.0	20.3	
67 2-Methylnaphthalene	142	6.418	6.424	-0.006	91	1917699	20.0	19.9	
69 1-Methylnaphthalene	142	6.512	6.517	-0.005	92	1887600	20.0	20.9	
S 24 Dinitrotoluene	165				0			41.6	
71 Hexachlorocyclopentadiene	237	6.570	6.576	-0.006	98	705054	20.0	21.3	
70 1,2,4,5-Tetrachlorobenzene	216	6.576	6.582	-0.006	98	920658	20.0	21.3	
72 Isosafrole Peak 1	162	6.617	6.623	-0.006	81	140354	3.20	3.36	
79 2,4,6-Trichlorophenol	196	6.687	6.693	-0.006	82	628830	20.0	21.4	
80 2,4,5-Trichlorophenol	196	6.722	6.722	0.000	92	697587	20.0	21.2	
$ 81 2-Fluorobiphenyl (Surr)	172	6.775	6.774	0.001	99	4284637	40.0	43.0	
82 Isosafrole Peak 2	162	6.833	6.833	0.000	84	769231	16.8	17.3	
83 1,1'-Biphenyl	154	6.868	6.868	0.000	96	2375868	20.0	20.7	
84 2-Chloronaphthalene	162	6.885	6.891	-0.006	96	1891996	20.0	21.6	
85 1-Chloronaphthalene	162	6.909	6.909	0.000	96	1728867	20.0	20.2	
86 Phenyl ether	170	6.967	6.973	-0.006	87	1224439	20.0	20.5	
87 2-Nitroaniline	138	6.979	6.985	-0.006	76	683952	20.0	20.8	
88 1,4-Naphthoquinone	158	7.055	7.055	0.000	77	792227	20.0	20.7	
89 1,4-Dinitrobenzene	168	7.113	7.113	0.000	86	279123	20.0	19.9	
90 Dimethyl phthalate	163	7.160	7.160	0.000	96	2226323	20.0	20.7	
91 1,3-Dinitrobenzene	168	7.183	7.183	0.000	83	323862	20.0	19.9	
92 2,6-Dinitrotoluene	165	7.212	7.218	-0.006	86	499050	20.0	20.8	
93 Acenaphthylene	152	7.277	7.282	-0.005	99	2955079	20.0	20.9	
95 3-Nitroaniline	138	7.370	7.370	0.000	87	582462	20.0	20.6	
* 96 Acenaphthene-d10	164	7.411	7.417	-0.006	95	367697	5.00	5.00	
97 Acenaphthene	153	7.446	7.446	0.000	98	1957709	20.0	21.4	
98 2,4-Dinitrophenol	184	7.469	7.469	0.000	79	651214	40.0	44.3	
100 4-Nitrophenol	109	7.528	7.528	0.000	91	869396	40.0	43.4	
99 Pentachlorobenzene	250	7.569	7.568	0.001	96	779662	20.0	20.3	
102 2,4-Dinitrotoluene	165	7.598	7.598	0.000	88	671462	20.0	20.9	
101 Dibenzofuran	168	7.610	7.609	0.001	96	2595383	20.0	20.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
104 1-Naphthylamine	143	7.685	7.685	0.000	97	1730485	20.0	20.5	
105 2,3,4,6-Tetrachlorophenol	232	7.720	7.726	-0.006	78	543774	20.0	20.8	
106 2-Naphthylamine	143	7.755	7.761	-0.006	95	2011184	20.0	20.9	
107 Diethyl phthalate	149	7.837	7.837	0.000	96	2402098	20.0	20.9	
109 Thionazin	107	7.907	7.913	-0.006	75	431285	20.0	20.0	
108 Fluorene	166	7.936	7.936	0.000	92	2081247	20.0	20.7	
110 4-Chlorophenyl phenyl ether	204	7.936	7.942	-0.006	85	956611	20.0	20.8	
111 N-Nitro-o-toluidine	152	7.942	7.948	-0.006	82	580085	20.0	19.7	
112 4-Nitroaniline	138	7.948	7.954	-0.006	79	615941	20.0	21.8	
113 4,6-Dinitro-2-methylphenol	198	7.977	7.983	-0.006	72	728628	40.0	43.2	
114 N-Nitrosodiphenylamine	169	8.047	8.053	-0.006	66	1482206	17.0	17.4	
115 1,2-Diphenylhydrazine	77	8.088	8.088	0.000	42	3147165	20.0	20.5	
$ 116 2,4,6-Tribromophenol	330	8.164	8.164	0.000	87	627932	40.0	44.0	
117 Sulfotepp	97	8.205	8.211	-0.006	76	562335	20.0	19.3	
118 1,3,5-Trinitrobenzene	213	8.299	8.298	0.001	80	197855	20.0	22.7	
120 cis-Diallate	86	8.328	8.328	0.000	94	866712	14.8	15.3	
119 Phorate	75	8.334	8.339	-0.005	93	2023818	20.0	20.8	
121 Phenacetin	108	8.345	8.345	0.000	86	1331509	20.0	21.7	
122 4-Bromophenyl phenyl ether	248	8.404	8.409	-0.005	75	578301	20.0	21.3	
123 trans-Diallate	86	8.409	8.415	-0.006	96	317892	5.20	5.27	
124 Hexachlorobenzene	284	8.456	8.456	0.000	91	625747	20.0	21.2	
125 Dimethoate	87	8.491	8.497	-0.006	96	1236901	20.0	20.7	
126 Atrazine	200	8.561	8.561	0.000	84	602216	20.0	18.6	
127 Pentachlorophenol	266	8.643	8.643	0.000	90	840370	40.0	44.5	
129 4-Aminobiphenyl	169	8.649	8.649	0.000	92	2424342	20.0	21.4	
128 Pentachloronitrobenzene	237	8.655	8.655	0.000	85	335174	20.0	21.2	
130 Pronamide	173	8.707	8.713	-0.006	90	1019894	20.0	20.9	
133 Dinoseb	211	8.824	8.824	0.000	91	550822	20.0	22.1	
* 131 Phenanthrene-d10	188	8.824	8.830	-0.006	97	694777	5.00	5.00	
134 Disulfoton	88	8.836	8.836	0.000	97	1808609	20.0	20.1	
132 Phenanthrene	178	8.847	8.853	-0.006	98	3144100	20.0	20.2	
135 Anthracene	178	8.900	8.900	0.000	99	3183001	20.0	21.0	
136 Carbazole	167	9.052	9.052	0.000	97	2968773	20.0	20.9	
137 Methyl parathion	109	9.186	9.192	-0.006	89	941543	20.0	21.4	
138 Di-n-butyl phthalate	149	9.396	9.396	0.000	100	4173476	20.0	21.6	
139 Ethyl Parathion	109	9.560	9.565	-0.005	81	593325	20.0	21.5	
140 4-Nitroquinoline-1-oxide	190	9.583	9.589	-0.006	91	368135	20.0	22.9	
S 68 Diallate	86				0		20.0	20.5	
142 Octachlorostyrene	308	9.799	9.805	-0.006	90	263720	20.0	20.2	
143 Isodrin	193	9.840	9.846	-0.006	92	395288	20.0	19.4	
144 Fluoranthene	202	9.980	9.986	-0.006	100	3314690	20.0	20.7	
145 Benzidine	184	10.114	10.120	-0.006	99	7462853	60.0	65.1	e
* 146 Pyrene-d10 (IS)	212	10.179	10.184	-0.005	97	661980	5.00	5.00	
147 Pyrene	202	10.196	10.202	-0.006	96	3398016	20.0	20.1	
$ 148 p-Terphenyl-d14	244	10.360	10.365	-0.005	98	4525644	40.0	41.8	
149 p-Dimethylamino azobenzene	225	10.506	10.506	0.000	91	506860	20.0	21.2	
150 Chlorobenzilate	139	10.552	10.558	-0.006	81	1327296	20.0	20.6	
152 3,3'-Dimethylbenzidine	212	10.856	10.862	-0.006	98	1637417	20.0	20.3	
153 Butyl benzyl phthalate	149	10.885	10.885	0.000	96	1802767	20.0	21.0	
155 2-Acetylaminofluorene	181	11.136	11.136	0.000	92	1355917	20.0	22.1	
S 94 Isosafrole	162				0		20.0	20.6	
157 3,3'-Dichlorobenzidine	252	11.475	11.481	-0.006	77	1192603	20.0	21.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
158 4,4'-Methylene bis(2-chloroanil	231	11.487	11.492	-0.005	93	568326	20.0	20.7	
156 Benzo[a]anthracene	228	11.498	11.504	-0.006	100	2885690	20.0	20.9	
159 Chrysene	228	11.545	11.545	0.000	97	2694124	20.0	20.7	
160 Bis(2-ethylhexyl) phthalate	149	11.574	11.580	-0.006	96	2588693	20.0	21.2	
161 6-Methylchrysene	242	12.123	12.129	-0.006	99	2048653	20.0	21.1	
162 Di-n-octyl phthalate	149	12.456	12.462	-0.006	99	4663246	20.0	21.9	
164 Benzo[b]fluoranthene	252	12.935	12.935	0.000	96	3047932	20.0	21.0	
163 7,12-Dimethylbenz(a)anthracene	256	12.935	12.935	0.000	72	1308621	20.0	21.3	
165 Benzo[k]fluoranthene	252	12.976	12.975	0.001	99	2948812	20.0	21.3	
166 Benzo[a]pyrene	252	13.402	13.402	0.000	79	2670091	20.0	21.0	
* 167 Perylene-d12	264	13.478	13.483	-0.005	96	575598	5.00	5.00	
168 3-Methylcholanthrene	268	13.927	13.933	-0.006	91	1425752	20.0	21.1	
169 Dibenz[a,h]acridine	279	14.768	14.774	-0.006	92	2077316	20.0	21.0	
170 Dibenz[a,j]acridine	279	14.856	14.861	-0.005	95	2198918	20.0	20.6	
171 Indeno[1,2,3-cd]pyrene	276	15.142	15.148	-0.006	97	2430062	20.0	21.0	
172 Dibenz(a,h)anthracene	278	15.194	15.200	-0.006	95	2544426	20.0	20.8	
173 Benzo[g,h,i]perylene	276	15.615	15.615	0.000	95	2686016	20.0	21.3	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Reagents:

MSS_RV8270_7_00019 Amount Added: 1.00 Units: mL

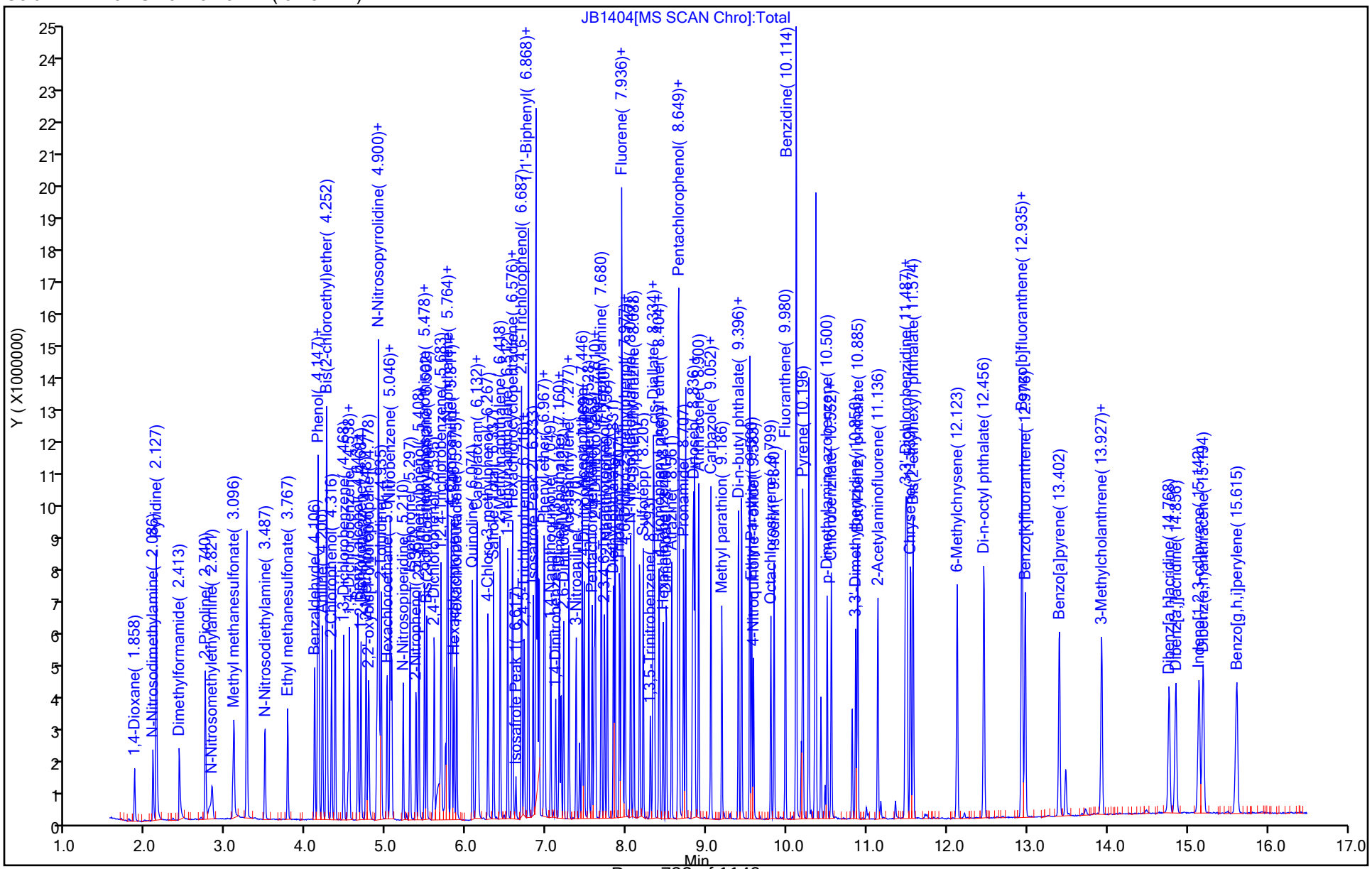
Report Date: 15-Feb-2022 08:32:13 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1404.D

Injection Date:	14-Feb-2022 13:16:30	Instrument ID:	HP23264	Operator ID:	apb10206
Lims ID:	IC L7			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1405.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 14-Feb-2022 13:37:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L5
Misc. Info.: 410-0050350-006
Operator ID: apb10206 Instrument ID: HP23264
Sublist: chrom-MSSemi_HP23264*sub27

Method: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\MSSemi_HP23264.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Feb-2022 08:32:20 Calib Date: 14-Feb-2022 14:41:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1408.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: bauera Date: 14-Feb-2022 15:08:02

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.870	1.870	0.000	96	219367	7.50	7.00	
	2 N-Nitrosodimethylamine	74	2.098	2.098	0.000	94	409438	7.50	7.04	
	3 Pyridine	79	2.138	2.138	0.000	91	1277300	15.0	14.7	
	4 Dimethylformamide	73	2.430	2.430	0.000	97	446893	7.50	7.54	
	5 2-Picoline	93	2.746	2.746	0.000	94	605619	7.50	7.27	
	6 N-Nitrosomethylethylamine	88	2.833	2.833	0.000	98	264533	7.50	7.36	
	7 Methyl methanesulfonate	80	3.102	3.102	0.000	86	402734	7.50	7.73	
$	9 2-Fluorophenol	112	3.259	3.259	0.000	96	1023307	15.0	14.6	
	11 N-Nitrosodiethylamine	102	3.487	3.487	0.000	90	250563	7.50	7.29	
	12 Ethyl methanesulfonate	109	3.767	3.767	0.000	95	285591	7.50	7.05	
	13 Benzaldehyde	77	4.106	4.106	0.000	92	603025	7.50	7.59	
$	15 Phenol-d5	99	4.141	4.141	0.000	95	1467239	15.0	14.8	
	16 Phenol	94	4.159	4.159	0.000	98	727991	7.50	7.13	
	17 Aniline	93	4.200	4.200	0.000	96	910205	7.50	7.47	
	18 Bis(2-chloroethyl)ether	93	4.264	4.264	0.000	88	585883	7.50	7.39	
	19 2-Chlorophenol	128	4.316	4.316	0.000	91	473304	7.50	7.27	
	21 1,3-Dichlorobenzene	146	4.468	4.468	0.000	94	502296	7.50	7.52	
*	22 1,4-Dichlorobenzene-d4	152	4.521	4.521	0.000	97	226877	5.00	5.00	
	23 1,4-Dichlorobenzene	146	4.538	4.538	0.000	90	512537	7.50	7.35	
	26 Benzyl alcohol	108	4.643	4.643	0.000	88	337780	7.50	7.24	
	27 1,2-Dichlorobenzene	146	4.684	4.684	0.000	93	487051	7.50	7.31	
	29 2-Methylphenol	108	4.743	4.743	0.000	97	491887	7.50	7.28	
	30 2,2'-oxybis[1-chloropropane]	45	4.778	4.778	0.000	93	1004727	7.50	7.16	
	31 N-Nitrosopyrrolidine	100	4.877	4.877	0.000	87	292646	7.50	7.38	
	34 4-Methylphenol	108	4.894	4.894	0.000	95	523943	7.50	7.22	
	32 Acetophenone	105	4.900	4.900	0.000	84	794901	7.50	7.02	
	33 N-Nitrosodi-n-propylamine	70	4.900	4.900	0.000	78	517282	7.50	7.08	
	35 N-Nitrosomorpholine	56	4.918	4.918	0.000	91	433839	7.50	7.45	
	36 2-Toluidine	106	4.935	4.935	0.000	95	820753	7.50	7.49	
	37 Hexachloroethane	117	5.005	5.005	0.000	96	242686	7.50	7.20	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 39 Nitrobenzene-d5	82	5.046	5.046	0.000	89	1385569	15.0	14.9	
40 Nitrobenzene	77	5.064	5.064	0.000	89	675002	7.50	7.12	
41 N-Nitrosopiperidine	114	5.210	5.210	0.000	81	255243	7.50	7.46	
42 Isophorone	82	5.291	5.291	0.000	99	1272907	7.50	7.36	
43 2-Nitrophenol	139	5.367	5.367	0.000	93	246682	7.50	7.10	
44 2,4-Dimethylphenol	107	5.402	5.402	0.000	99	563716	7.50	7.37	
46 o,o',o''-Triethylphosphorothioat	198	5.478	5.478	0.000	93	219130	7.50	7.87	
47 Bis(2-chloroethoxy)methane	93	5.502	5.502	0.000	93	745994	7.50	7.28	
49 2,4-Dichlorophenol	162	5.595	5.595	0.000	97	381158	7.50	7.16	
50 1,2,4-Trichlorobenzene	180	5.683	5.683	0.000	93	412705	7.50	7.32	
* 52 Naphthalene-d8	136	5.735	5.735	0.000	99	890630	5.00	5.00	
53 Naphthalene	128	5.759	5.759	0.000	97	1348806	7.50	7.42	
55 Alpha-Terpineol	59	5.764	5.764	0.000	90	649685	7.50	7.42	
56 4-Chloroaniline	127	5.805	5.805	0.000	93	603800	7.50	7.48	
57 2,6-Dichlorophenol	162	5.817	5.817	0.000	92	379685	7.50	7.44	
58 Hexachloropropene	213	5.846	5.846	0.000	97	326423	7.50	7.82	
59 Hexachlorobutadiene	225	5.875	5.875	0.000	96	234189	7.50	7.35	
61 Quinoline	129	6.074	6.074	0.000	94	901281	7.50	7.62	
62 Caprolactam	113	6.115	6.115	0.000	72	155578	7.50	7.00	
63 N-Nitrosodi-n-butylamine	84	6.132	6.132	0.000	92	563399	7.50	7.38	
64 p-Phenylene diamine	108	6.144	6.144	0.000	93	442856	7.50	8.00	
65 4-Chloro-3-methylphenol	107	6.267	6.267	0.000	94	467930	7.50	7.21	
66 Safrole, Total	162	6.337	6.337	0.000	80	348844	7.50	7.74	
67 2-Methylnaphthalene	142	6.418	6.418	0.000	90	869427	7.50	7.21	
69 1-Methylnaphthalene	142	6.512	6.512	0.000	92	837799	7.50	7.42	
S 24 Dinitrotoluene	165				0			14.0	
71 Hexachlorocyclopentadiene	237	6.570	6.570	0.000	97	309452	7.50	7.04	
70 1,2,4,5-Tetrachlorobenzene	216	6.576	6.576	0.000	98	398586	7.50	6.96	
72 Isosafrole Peak 1	162	6.617	6.617	0.000	83	64663	1.20	1.17	
79 2,4,6-Trichlorophenol	196	6.687	6.687	0.000	81	278767	7.50	7.17	
80 2,4,5-Trichlorophenol	196	6.716	6.716	0.000	92	310271	7.50	7.12	
$ 81 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	99	1915894	15.0	14.5	
82 Isosafrole Peak 2	162	6.833	6.833	0.000	85	369977	6.30	6.28	
83 1,1'-Biphenyl	154	6.868	6.868	0.000	97	1068886	7.50	7.04	
84 2-Chloronaphthalene	162	6.886	6.886	0.000	95	887960	7.50	7.64	M
85 1-Chloronaphthalene	162	6.903	6.903	0.000	97	774652	7.50	6.82	M
86 Phenyl ether	170	6.967	6.967	0.000	90	546928	7.50	6.91	
87 2-Nitroaniline	138	6.979	6.979	0.000	89	304241	7.50	6.97	
88 1,4-Naphthoquinone	158	7.049	7.049	0.000	77	375656	7.50	7.42	
89 1,4-Dinitrobenzene	168	7.113	7.113	0.000	86	132545	7.50	7.12	
90 Dimethyl phthalate	163	7.154	7.154	0.000	96	994633	7.50	6.96	
91 1,3-Dinitrobenzene	168	7.177	7.177	0.000	81	155103	7.50	7.19	
92 2,6-Dinitrotoluene	165	7.213	7.213	0.000	86	213858	7.50	6.72	
93 Acenaphthylene	152	7.277	7.277	0.000	99	1322499	7.50	7.08	
95 3-Nitroaniline	138	7.364	7.364	0.000	89	264681	7.50	7.05	
* 96 Acenaphthene-d10	164	7.411	7.411	0.000	95	487169	5.00	5.00	
97 Acenaphthene	153	7.440	7.440	0.000	99	883905	7.50	7.29	
98 2,4-Dinitrophenol	184	7.469	7.469	0.000	80	314402	17.5	16.2	
100 4-Nitrophenol	109	7.522	7.522	0.000	93	379443	15.0	14.3	
99 Pentachlorobenzene	250	7.569	7.569	0.000	96	359696	7.50	7.08	
102 2,4-Dinitrotoluene	165	7.592	7.592	0.000	89	308618	7.50	7.24	
101 Dibenzofuran	168	7.610	7.610	0.000	95	1164270	7.50	7.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
104 1-Naphthylamine	143	7.680	7.680	0.000	97	803914	7.50	7.18	
105 2,3,4,6-Tetrachlorophenol	232	7.721	7.721	0.000	77	240531	7.50	6.94	
106 2-Naphthylamine	143	7.756	7.756	0.000	95	947966	7.50	7.45	
107 Diethyl phthalate	149	7.831	7.831	0.000	96	1077835	7.50	7.08	
109 Thionazin	107	7.907	7.907	0.000	75	200120	7.50	6.99	
108 Fluorene	166	7.937	7.937	0.000	91	910245	7.50	6.82	
110 4-Chlorophenyl phenyl ether	204	7.937	7.937	0.000	89	427557	7.50	7.03	
111 N-Nitro-o-toluidine	152	7.942	7.942	0.000	87	277288	7.50	7.12	
112 4-Nitroaniline	138	7.942	7.942	0.000	81	261101	7.50	6.98	
113 4,6-Dinitro-2-methylphenol	198	7.977	7.977	0.000	73	322217	15.0	14.7	
114 N-Nitrosodiphenylamine	169	8.047	8.047	0.000	67	652950	6.38	5.88	
115 1,2-Diphenylhydrazine	77	8.088	8.088	0.000	42	1396305	7.50	6.99	
$ 116 2,4,6-Tribromophenol	330	8.158	8.158	0.000	87	273076	15.0	14.4	
117 Sulfotepp	97	8.205	8.205	0.000	76	268735	7.50	7.08	
118 1,3,5-Trinitrobenzene	213	8.293	8.293	0.000	81	86168	7.50	7.60	
120 cis-Diallate	86	8.328	8.328	0.000	92	407423	5.55	5.52	
119 Phorate	75	8.334	8.334	0.000	94	951689	7.50	7.54	
121 Phenacetin	108	8.339	8.339	0.000	89	602411	7.50	7.56	
122 4-Bromophenyl phenyl ether	248	8.404	8.404	0.000	73	259710	7.50	7.37	
123 trans-Diallate	86	8.410	8.410	0.000	95	148406	1.95	1.89	
124 Hexachlorobenzene	284	8.456	8.456	0.000	90	275511	7.50	7.17	
125 Dimethoate	87	8.491	8.491	0.000	95	558182	7.50	7.18	
126 Atrazine	200	8.561	8.561	0.000	85	289083	7.50	6.86	
127 Pentachlorophenol	266	8.643	8.643	0.000	89	361643	15.0	14.7	
129 4-Aminobiphenyl	169	8.649	8.649	0.000	92	1081916	7.50	7.33	
128 Pentachloronitrobenzene	237	8.655	8.655	0.000	85	157969	7.50	7.68	
130 Pronamide	173	8.707	8.707	0.000	90	472705	7.50	7.47	
133 Dinoseb	211	8.818	8.818	0.000	91	243144	7.50	7.51	
* 131 Phenanthrene-d10	188	8.824	8.824	0.000	97	903509	5.00	5.00	
134 Disulfoton	88	8.836	8.836	0.000	97	865678	7.50	7.41	
132 Phenanthrene	178	8.847	8.847	0.000	98	1384320	7.50	6.84	
135 Anthracene	178	8.894	8.894	0.000	99	1442418	7.50	7.32	
136 Carbazole	167	9.052	9.052	0.000	96	1319338	7.50	7.15	
137 Methyl parathion	109	9.186	9.186	0.000	90	438359	7.50	7.65	
138 Di-n-butyl phthalate	149	9.396	9.396	0.000	100	1830492	7.50	7.28	
139 Ethyl Parathion	109	9.560	9.560	0.000	81	267640	7.50	7.45	
140 4-Nitroquinoline-1-oxide	190	9.583	9.583	0.000	90	144591	7.50	6.93	
S 68 Diallate	86				0		7.50	7.41	
142 Octachlorostyrene	308	9.799	9.799	0.000	89	115359	7.50	6.81	
143 Isodrin	193	9.840	9.840	0.000	91	184148	7.50	6.96	
144 Fluoranthene	202	9.980	9.980	0.000	99	1468560	7.50	7.06	
145 Benzidine	184	10.115	10.115	0.000	99	3314335	22.5	23.1	
* 146 Pyrene-d10 (IS)	212	10.179	10.179	0.000	97	830333	5.00	5.00	
147 Pyrene	202	10.196	10.196	0.000	96	1493383	7.50	7.03	
$ 148 p-Terphenyl-d14	244	10.360	10.360	0.000	99	1952825	15.0	14.4	
149 p-Dimethylamino azobenzene	225	10.500	10.500	0.000	91	226946	7.50	7.57	
150 Chlorobenzilate	139	10.552	10.552	0.000	82	586063	7.50	7.25	
152 3,3'-Dimethylbenzidine	212	10.856	10.856	0.000	98	732162	7.50	7.23	
153 Butyl benzyl phthalate	149	10.879	10.879	0.000	95	777977	7.50	7.22	
155 2-Acetylaminofluorene	181	11.131	11.131	0.000	92	564692	7.50	7.33	
S 94 Isosafrole	162				0		7.50	7.44	
157 3,3'-Dichlorobenzidine	252	11.475	11.475	0.000	78	507591	7.50	7.17	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
158 4,4'-Methylene bis(2-chloroanil	231	11.487	11.487	0.000	92	250504	7.50	7.27	
156 Benzo[a]anthracene	228	11.498	11.498	0.000	100	1230259	7.50	7.09	
159 Chrysene	228	11.539	11.539	0.000	97	1148336	7.50	7.03	
160 Bis(2-ethylhexyl) phthalate	149	11.574	11.574	0.000	96	1093043	7.50	7.14	
161 6-Methylchrysene	242	12.123	12.123	0.000	99	915741	7.50	7.53	
162 Di-n-octyl phthalate	149	12.456	12.456	0.000	99	1897115	7.50	7.39	
164 Benzo[b]fluoranthene	252	12.929	12.929	0.000	96	1287905	7.50	7.35	
163 7,12-Dimethylbenz(a)anthracene	256	12.929	12.929	0.000	84	566057	7.50	7.65	
165 Benzo[k]fluoranthene	252	12.970	12.970	0.000	99	1236399	7.50	7.42	
166 Benzo[a]pyrene	252	13.396	13.396	0.000	79	1130107	7.50	7.36	
* 167 Perylene-d12	264	13.478	13.478	0.000	97	693951	5.00	5.00	
168 3-Methylcholanthrene	268	13.927	13.927	0.000	92	614272	7.50	7.55	
169 Dibenz[a,h]acridine	279	14.768	14.768	0.000	92	881815	7.50	7.40	
170 Dibenz[a,j]acridine	279	14.850	14.850	0.000	95	914164	7.50	7.11	
171 Indeno[1,2,3-cd]pyrene	276	15.136	15.136	0.000	97	976835	7.50	6.99	
172 Dibenz(a,h)anthracene	278	15.189	15.189	0.000	95	1060115	7.50	7.18	
173 Benzo[g,h,i]perylene	276	15.603	15.603	0.000	95	1085502	7.50	7.12	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_5_00025 Amount Added: 1.00 Units: mL

Report Date: 15-Feb-2022 08:32:21 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1405.D

Injection Date: 14-Feb-2022 13:37:30 Instrument ID: HP23264 Operator ID: apb10206

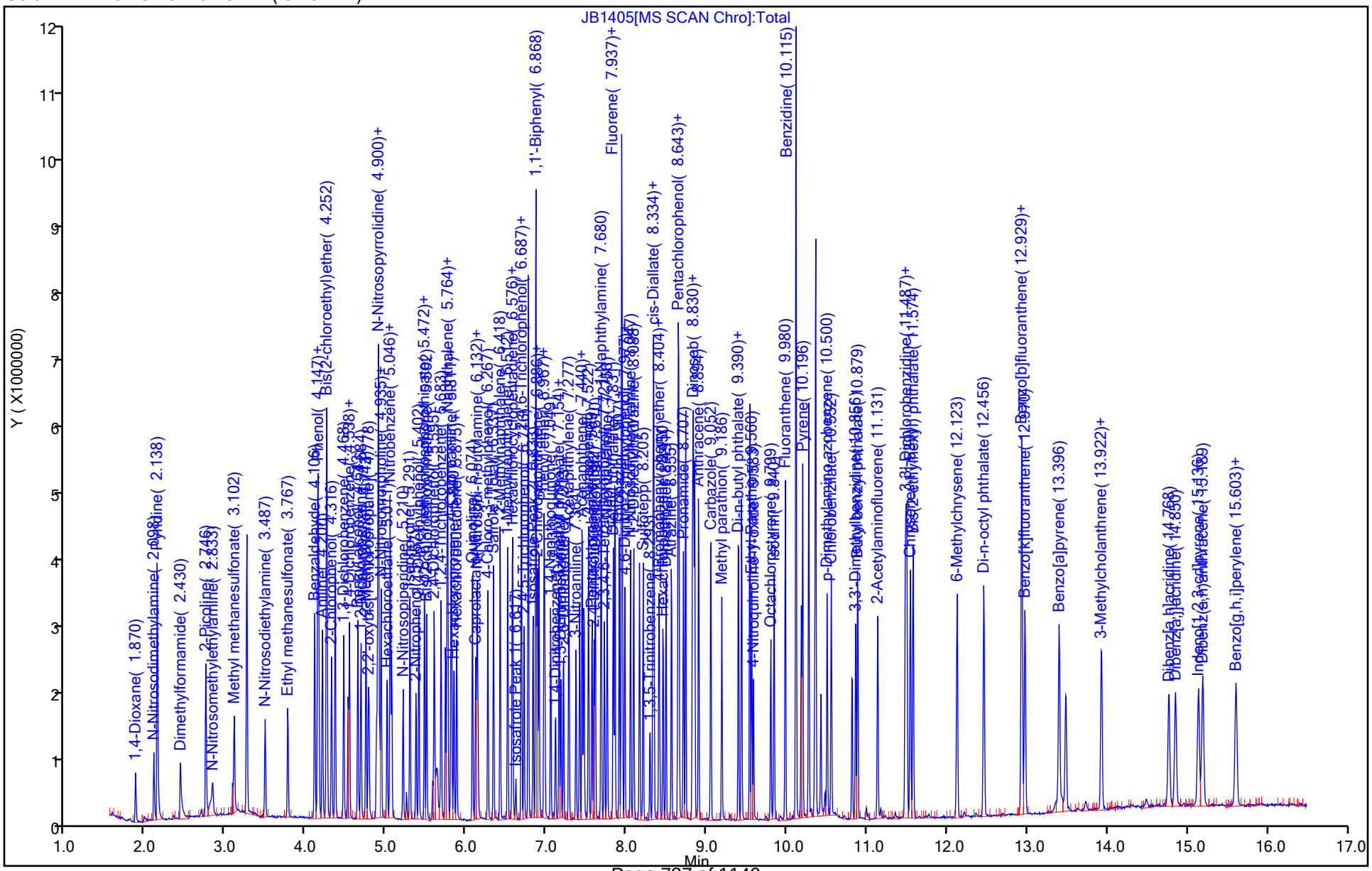
Lims ID: IC L5 Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 6

Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

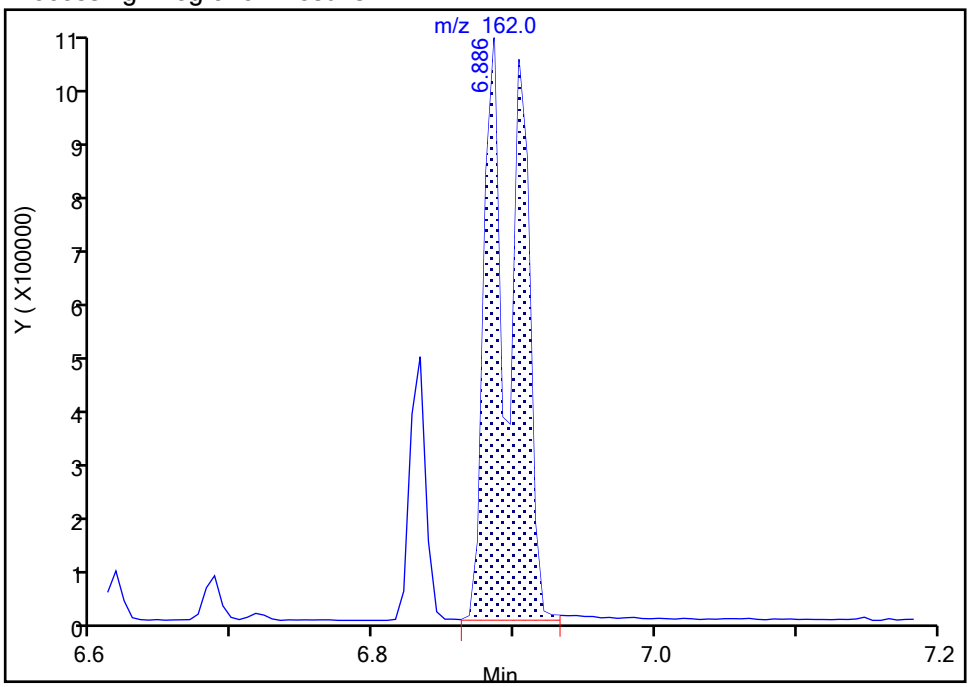
Data File:	\\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1405.D				
Injection Date:	14-Feb-2022 13:37:30	Instrument ID:	HP23264		
Lims ID:	IC L5				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

84 2-Chloronaphthalene, CAS: 91-58-7

Signal: 1

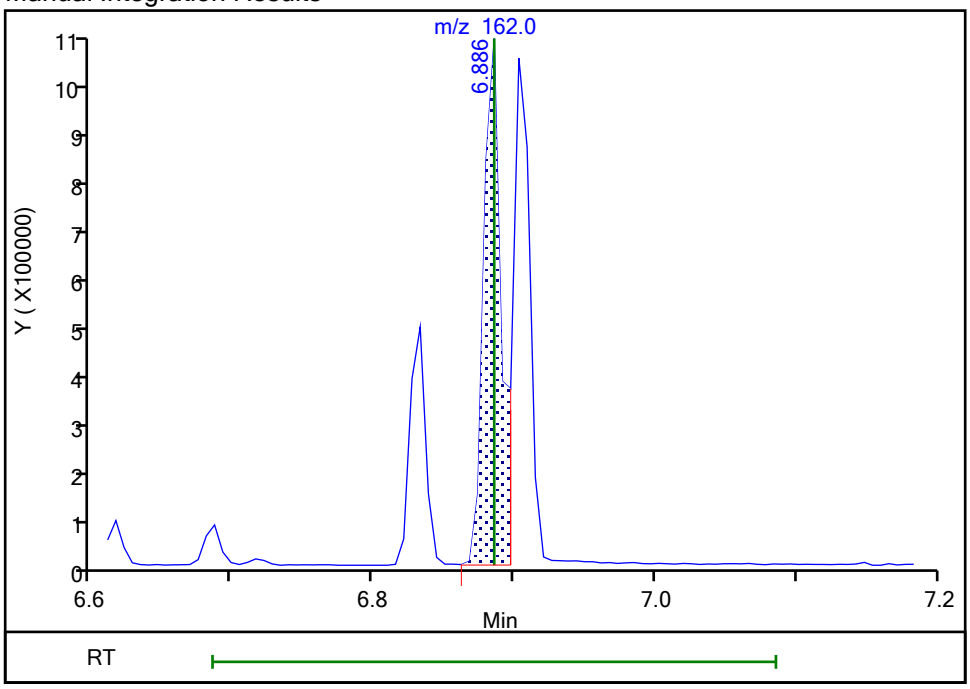
Processing Integration Results

RT: 6.89
Area: 1662614
Amount: 10.047279
Amount Units: ug/ml



Manual Integration Results

RT: 6.89
Area: 887960
Amount: 7.641702
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:07:15

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

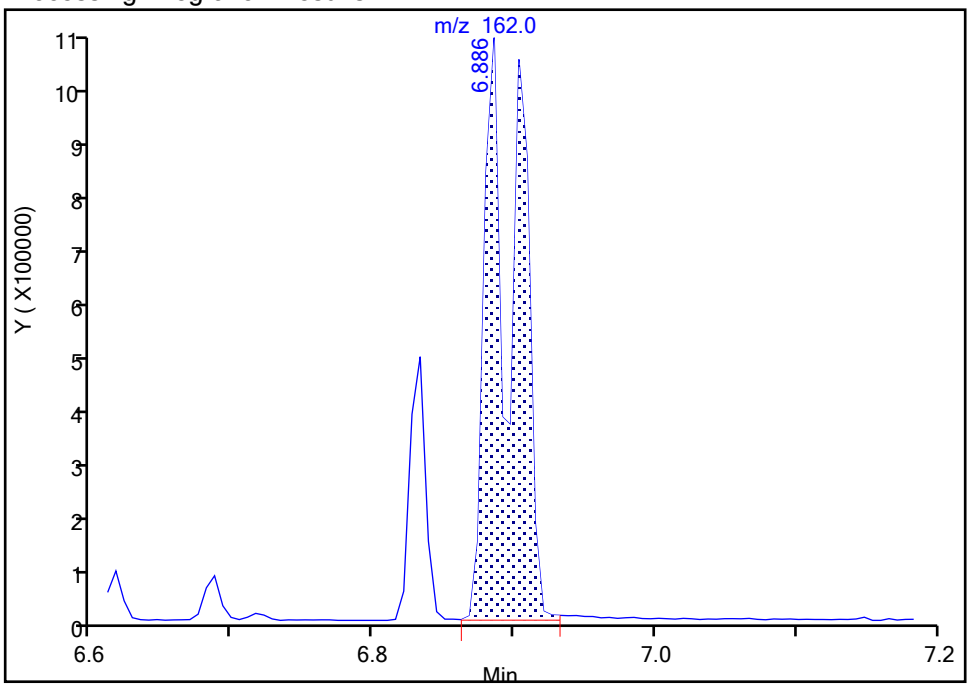
Data File:	\\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1405.D				
Injection Date:	14-Feb-2022 13:37:30	Instrument ID:	HP23264		
Lims ID:	IC L5				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

85 1-Chloronaphthalene, CAS: 90-13-1

Signal: 1

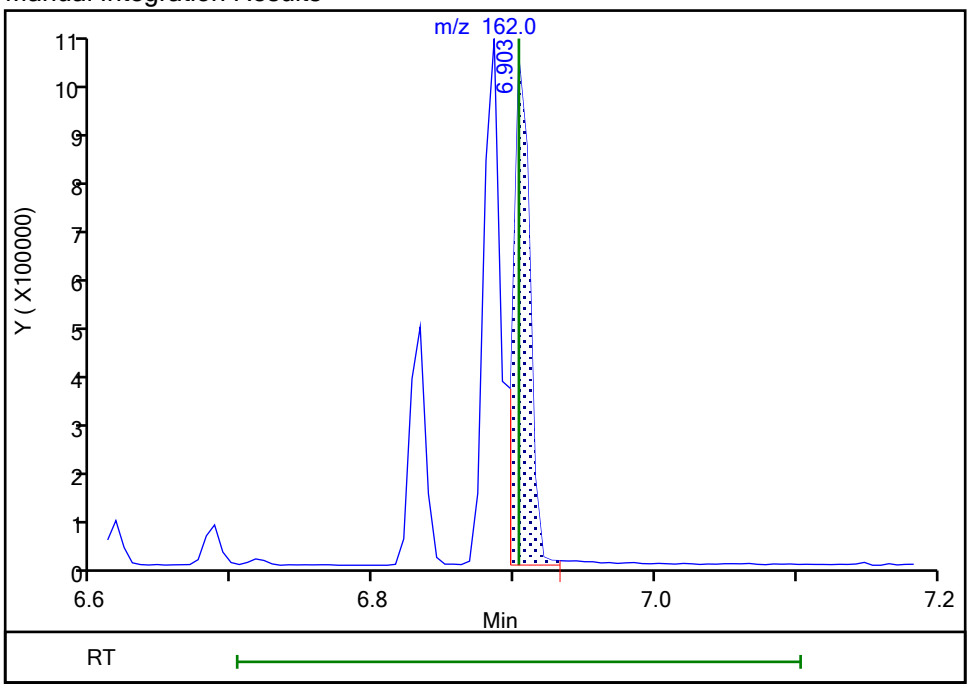
Processing Integration Results

RT: 6.89
Area: 1662614
Amount: 10.405925
Amount Units: ug/ml



Manual Integration Results

RT: 6.90
Area: 774652
Amount: 6.819977
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:07:22

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1406.D
Lims ID: IC L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 14-Feb-2022 13:59:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L4
Misc. Info.: 410-0050350-007
Operator ID: apb10206 Instrument ID: HP23264
Sublist: chrom-MSSemi_HP23264*sub27

Method: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\MSSemi_HP23264.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Feb-2022 08:32:26 Calib Date: 14-Feb-2022 14:41:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1408.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: bauera Date: 14-Feb-2022 15:10:05

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.858	1.870	-0.012	97	88647	3.75	3.98	
	2 N-Nitrosodimethylamine	74	2.086	2.098	-0.012	95	157150	3.75	3.81	
	3 Pyridine	79	2.132	2.138	-0.006	91	510330	7.50	8.25	
	4 Dimethylformamide	73	2.430	2.430	0.000	98	141067	3.75	3.35	
	5 2-Picoline	93	2.740	2.746	-0.006	93	216666	3.75	3.67	
	6 N-Nitrosomethylethylamine	88	2.821	2.833	-0.012	96	100654	3.75	3.95	
	7 Methyl methanesulfonate	80	3.096	3.102	-0.006	85	138679	3.75	3.75	
$	9 2-Fluorophenol	112	3.254	3.259	-0.005	96	401003	7.50	8.04	
	11 N-Nitrosodiethylamine	102	3.481	3.487	-0.006	88	85037	3.75	3.48	
	12 Ethyl methanesulfonate	109	3.767	3.767	0.000	94	96235	3.75	3.35	
	13 Benzaldehyde	77	4.106	4.106	0.000	93	239581	3.75	4.25	
$	15 Phenol-d5	99	4.141	4.141	0.000	95	555070	7.50	7.87	
	16 Phenol	94	4.153	4.159	-0.006	97	294410	3.75	4.06	
	17 Aniline	93	4.199	4.200	-0.001	96	349331	3.75	4.04	
	18 Bis(2-chloroethyl)ether	93	4.258	4.264	-0.006	89	224683	3.75	3.99	
	19 2-Chlorophenol	128	4.316	4.316	0.000	92	185732	3.75	4.02	
	21 1,3-Dichlorobenzene	146	4.468	4.468	0.000	93	197275	3.75	4.16	
*	22 1,4-Dichlorobenzene-d4	152	4.521	4.521	0.000	95	161062	5.00	5.00	
	23 1,4-Dichlorobenzene	146	4.538	4.538	0.000	91	194634	3.75	3.93	
	26 Benzyl alcohol	108	4.643	4.643	0.000	89	140027	3.75	4.23	
	27 1,2-Dichlorobenzene	146	4.684	4.684	0.000	92	190289	3.75	4.02	
	29 2-Methylphenol	108	4.742	4.743	-0.001	97	187295	3.75	3.90	
	30 2,2'-oxybis[1-chloropropane]	45	4.778	4.778	0.000	94	390924	3.75	3.93	
	31 N-Nitrosopyrrolidine	100	4.877	4.877	0.000	86	105712	3.75	3.75	
	34 4-Methylphenol	108	4.888	4.894	-0.006	96	199933	3.75	3.88	
	32 Acetophenone	105	4.900	4.900	0.000	87	336873	3.75	4.19	
	33 N-Nitrosodi-n-propylamine	70	4.900	4.900	0.000	78	203366	3.75	3.92	
	35 N-Nitrosomorpholine	56	4.912	4.918	-0.006	91	155047	3.75	3.75	
	36 2-Toluidine	106	4.935	4.935	0.000	95	285222	3.75	3.67	
	37 Hexachloroethane	117	5.005	5.005	0.000	97	91540	3.75	3.82	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 39 Nitrobenzene-d5	82	5.046	5.046	0.000	89	549084	7.50	8.20	
40 Nitrobenzene	77	5.064	5.064	0.000	87	273263	3.75	4.00	
41 N-Nitrosopiperidine	114	5.210	5.210	0.000	82	90122	3.75	3.65	
42 Isophorone	82	5.291	5.291	0.000	98	486966	3.75	3.90	
43 2-Nitrophenol	139	5.367	5.367	0.000	91	93190	3.75	3.72	
44 2,4-Dimethylphenol	107	5.402	5.402	0.000	98	209473	3.75	3.80	
46 o,o',o''-Triethylphosphorothioat	198	5.478	5.478	0.000	93	74879	3.75	3.73	
47 Bis(2-chloroethoxy)methane	93	5.502	5.502	0.000	94	291745	3.75	3.95	
49 2,4-Dichlorophenol	162	5.595	5.595	0.000	97	148172	3.75	3.86	
50 1,2,4-Trichlorobenzene	180	5.683	5.683	0.000	93	157555	3.75	3.88	
* 52 Naphthalene-d8	136	5.735	5.735	0.000	99	642508	5.00	5.00	M
53 Naphthalene	128	5.758	5.759	-0.001	98	520050	3.75	3.96	
55 Alpha-Terpineol	59	5.764	5.764	0.000	91	255677	3.75	4.05	
56 4-Chloroaniline	127	5.805	5.805	0.000	93	233666	3.75	4.01	
57 2,6-Dichlorophenol	162	5.811	5.817	-0.006	92	148168	3.75	4.03	
58 Hexachloropropene	213	5.846	5.846	0.000	95	109150	3.75	3.63	
59 Hexachlorobutadiene	225	5.875	5.875	0.000	96	95197	3.75	4.14	
61 Quinoline	129	6.074	6.074	0.000	95	313887	3.75	3.68	
62 Caprolactam	113	6.109	6.115	-0.006	75	66341	3.75	4.14	
63 N-Nitrosodi-n-butylamine	84	6.132	6.132	0.000	93	195161	3.75	3.55	M
64 p-Phenylene diamine	108	6.138	6.144	-0.006	92	152843	3.75	3.83	
65 4-Chloro-3-methylphenol	107	6.266	6.267	-0.001	94	185134	3.75	3.95	
66 Safrole, Total	162	6.337	6.337	0.000	83	121997	3.75	3.75	
67 2-Methylnaphthalene	142	6.418	6.418	0.000	88	337715	3.75	3.88	
69 1-Methylnaphthalene	142	6.512	6.512	0.000	92	315563	3.75	3.87	
S 24 Dinitrotoluene	165				0			8.06	
71 Hexachlorocyclopentadiene	237	6.570	6.570	0.000	97	123460	3.75	4.15	
70 1,2,4,5-Tetrachlorobenzene	216	6.576	6.576	0.000	98	156825	3.75	4.05	
72 Isosafrole Peak 1	162	6.617	6.617	0.000	78	22535	0.6000	0.6011	
79 2,4,6-Trichlorophenol	196	6.687	6.687	0.000	81	105660	3.75	4.02	
80 2,4,5-Trichlorophenol	196	6.716	6.716	0.000	91	121981	3.75	4.14	
$ 81 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	98	730172	7.50	8.17	
82 Isosafrole Peak 2	162	6.833	6.833	0.000	85	126161	3.15	3.16	
83 1,1'-Biphenyl	154	6.868	6.868	0.000	95	426579	3.75	4.15	
84 2-Chloronaphthalene	162	6.885	6.886	-0.001	96	340943	3.75	4.34	M
85 1-Chloronaphthalene	162	6.903	6.903	0.000	97	280326	3.75	3.65	M
86 Phenyl ether	170	6.967	6.967	0.000	89	220794	3.75	4.12	
87 2-Nitroaniline	138	6.979	6.979	0.000	86	122199	3.75	4.14	
88 1,4-Naphthoquinone	158	7.049	7.049	0.000	76	125902	3.75	3.68	
89 1,4-Dinitrobenzene	168	7.113	7.113	0.000	85	46341	3.75	3.68	
90 Dimethyl phthalate	163	7.154	7.154	0.000	97	397410	3.75	4.11	
91 1,3-Dinitrobenzene	168	7.177	7.177	0.000	82	57494	3.75	3.94	
92 2,6-Dinitrotoluene	165	7.212	7.213	0.000	86	85880	3.75	3.99	
93 Acenaphthylene	152	7.277	7.277	0.000	99	516973	3.75	4.09	
95 3-Nitroaniline	138	7.364	7.364	0.000	85	100940	3.75	3.97	
* 96 Acenaphthene-d10	164	7.411	7.411	0.000	95	329545	5.00	5.00	
97 Acenaphthene	153	7.446	7.440	0.006	97	337019	3.75	4.11	
98 2,4-Dinitrophenol	184	7.469	7.469	0.000	80	163670	11.3	12.4	
100 4-Nitrophenol	109	7.522	7.522	0.000	93	151229	7.50	8.43	
99 Pentachlorobenzene	250	7.569	7.569	0.000	95	128929	3.75	3.75	
102 2,4-Dinitrotoluene	165	7.592	7.592	0.000	87	117543	3.75	4.07	
101 Dibenzofuran	168	7.609	7.610	-0.001	95	448800	3.75	4.04	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
104 1-Naphthylamine	143	7.680	7.680	0.000	97	285632	3.75	3.77	
105 2,3,4,6-Tetrachlorophenol	232	7.720	7.721	0.000	79	95098	3.75	4.06	
106 2-Naphthylamine	143	7.755	7.756	-0.001	96	328180	3.75	3.81	
107 Diethyl phthalate	149	7.831	7.831	0.000	96	420318	3.75	4.08	
109 Thionazin	107	7.907	7.907	0.000	77	71364	3.75	3.68	
108 Fluorene	166	7.936	7.937	-0.001	96	359915	3.75	3.99	
110 4-Chlorophenyl phenyl ether	204	7.936	7.937	-0.001	87	171350	3.75	4.16	
111 N-Nitro-o-toluidine	152	7.942	7.942	0.000	85	99102	3.75	3.76	
112 4-Nitroaniline	138	7.942	7.942	0.000	78	105669	3.75	4.18	
113 4,6-Dinitro-2-methylphenol	198	7.977	7.977	0.000	72	119505	7.50	7.74	
114 N-Nitrosodiphenylamine	169	8.047	8.047	0.000	66	270548	3.19	3.46	
115 1,2-Diphenylhydrazine	77	8.088	8.088	0.000	42	555996	3.75	3.95	
$ 116 2,4,6-Tribromophenol	330	8.158	8.158	0.000	87	106431	7.50	8.32	
117 Sulfotepp	97	8.205	8.205	0.000	77	94198	3.75	3.53	
118 1,3,5-Trinitrobenzene	213	8.287	8.293	-0.006	81	28593	3.75	3.58	
120 cis-Diallate	86	8.328	8.328	0.000	97	138678	2.78	2.67	
119 Phorate	75	8.333	8.334	-0.001	93	323347	3.75	3.64	
121 Phenacetin	108	8.339	8.339	0.000	86	213703	3.75	3.81	
122 4-Bromophenyl phenyl ether	248	8.404	8.404	0.000	74	99638	3.75	4.02	
123 trans-Diallate	86	8.409	8.410	-0.001	95	54887	0.9750	0.99	
124 Hexachlorobenzene	284	8.456	8.456	0.000	90	111211	3.75	4.11	
125 Dimethoate	87	8.485	8.491	-0.006	97	204978	3.75	3.75	
126 Atrazine	200	8.555	8.561	-0.006	84	119921	3.75	4.04	
127 Pentachlorophenol	266	8.643	8.643	0.000	89	137573	7.50	7.95	
129 4-Aminobiphenyl	169	8.649	8.649	0.000	91	397182	3.75	3.82	
128 Pentachloronitrobenzene	237	8.655	8.655	0.000	82	53916	3.75	3.73	
130 Pronamide	173	8.707	8.707	0.000	89	160808	3.75	3.61	
133 Dinoseb	211	8.818	8.818	0.000	91	77128	3.75	3.39	
* 131 Phenanthrene-d10	188	8.824	8.824	0.000	97	635598	5.00	5.00	
134 Disulfoton	88	8.836	8.836	0.000	95	311466	3.75	3.79	
132 Phenanthrene	178	8.847	8.847	0.000	98	560812	3.75	3.94	
135 Anthracene	178	8.894	8.894	0.000	99	562389	3.75	4.06	
136 Carbazole	167	9.052	9.052	0.000	97	512907	3.75	3.95	
137 Methyl parathion	109	9.186	9.186	0.000	90	144658	3.75	3.59	
138 Di-n-butyl phthalate	149	9.396	9.396	0.000	100	711143	3.75	4.02	
139 Ethyl Parathion	109	9.560	9.560	0.000	81	87595	3.75	3.47	
140 4-Nitroquinoline-1-oxide	190	9.583	9.583	0.000	87	47341	3.75	3.22	
S 68 Diallate	86				0		3.75	3.66	
142 Octachlorostyrene	308	9.799	9.799	0.000	88	46361	3.75	3.89	
143 Isodrin	193	9.840	9.840	0.000	89	64569	3.75	3.47	
144 Fluoranthene	202	9.980	9.980	0.000	99	575430	3.75	3.93	
145 Benzidine	184	10.114	10.115	0.000	99	1239591	11.3	12.1	
* 146 Pyrene-d10 (IS)	212	10.179	10.179	0.000	97	591180	5.00	5.00	
147 Pyrene	202	10.196	10.196	0.000	96	598586	3.75	3.96	
$ 148 p-Terphenyl-d14	244	10.360	10.360	0.000	99	781907	7.50	8.09	
149 p-Dimethylamino azobenzene	225	10.500	10.500	0.000	90	74495	3.75	3.49	
150 Chlorobenzilate	139	10.552	10.552	0.000	82	209784	3.75	3.64	
152 3,3'-Dimethylbenzidine	212	10.856	10.856	0.000	99	269872	3.75	3.74	
153 Butyl benzyl phthalate	149	10.879	10.879	0.000	95	301729	3.75	3.93	
155 2-Acetylaminofluorene	181	11.130	11.131	0.000	91	207634	3.75	3.79	
S 94 Isosafrole	162				0		3.75	3.76	
157 3,3'-Dichlorobenzidine	252	11.475	11.475	0.000	77	206219	3.75	4.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
158 4,4'-Methylene bis(2-chloroanil	231	11.487	11.487	0.000	89	86968	3.75	3.55	
156 Benzo[a]anthracene	228	11.498	11.498	0.000	99	514438	3.75	4.17	
159 Chrysene	228	11.539	11.539	0.000	96	482764	3.75	4.15	
160 Bis(2-ethylhexyl) phthalate	149	11.574	11.574	0.000	96	450729	3.75	4.14	
161 6-Methylchrysene	242	12.123	12.123	0.000	98	328771	3.75	3.80	
162 Di-n-octyl phthalate	149	12.456	12.456	0.000	99	791828	3.75	3.89	
164 Benzo[b]fluoranthene	252	12.929	12.929	0.000	96	534087	3.75	3.84	
163 7,12-Dimethylbenz(a)anthracene	256	12.929	12.929	0.000	80	204965	3.75	3.49	
165 Benzo[k]fluoranthene	252	12.970	12.970	0.000	99	518839	3.75	3.92	
166 Benzo[a]pyrene	252	13.396	13.396	0.000	80	467777	3.75	3.84	
* 167 Perylene-d12	264	13.484	13.478	0.006	97	550876	5.00	5.00	
168 3-Methylcholanthrene	268	13.921	13.927	-0.006	91	238047	3.75	3.69	
169 Dibenz[a,h]acridine	279	14.768	14.768	0.000	91	327185	3.75	3.46	
170 Dibenz[a,j]acridine	279	14.850	14.850	0.000	95	390442	3.75	3.83	
171 Indeno[1,2,3-cd]pyrene	276	15.130	15.136	-0.006	98	442825	3.75	3.99	
172 Dibenz(a,h)anthracene	278	15.189	15.189	-0.001	95	463358	3.75	3.95	
173 Benzo[g,h,i]perylene	276	15.603	15.603	0.000	96	482920	3.75	3.99	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_4_00018 Amount Added: 1.00 Units: mL

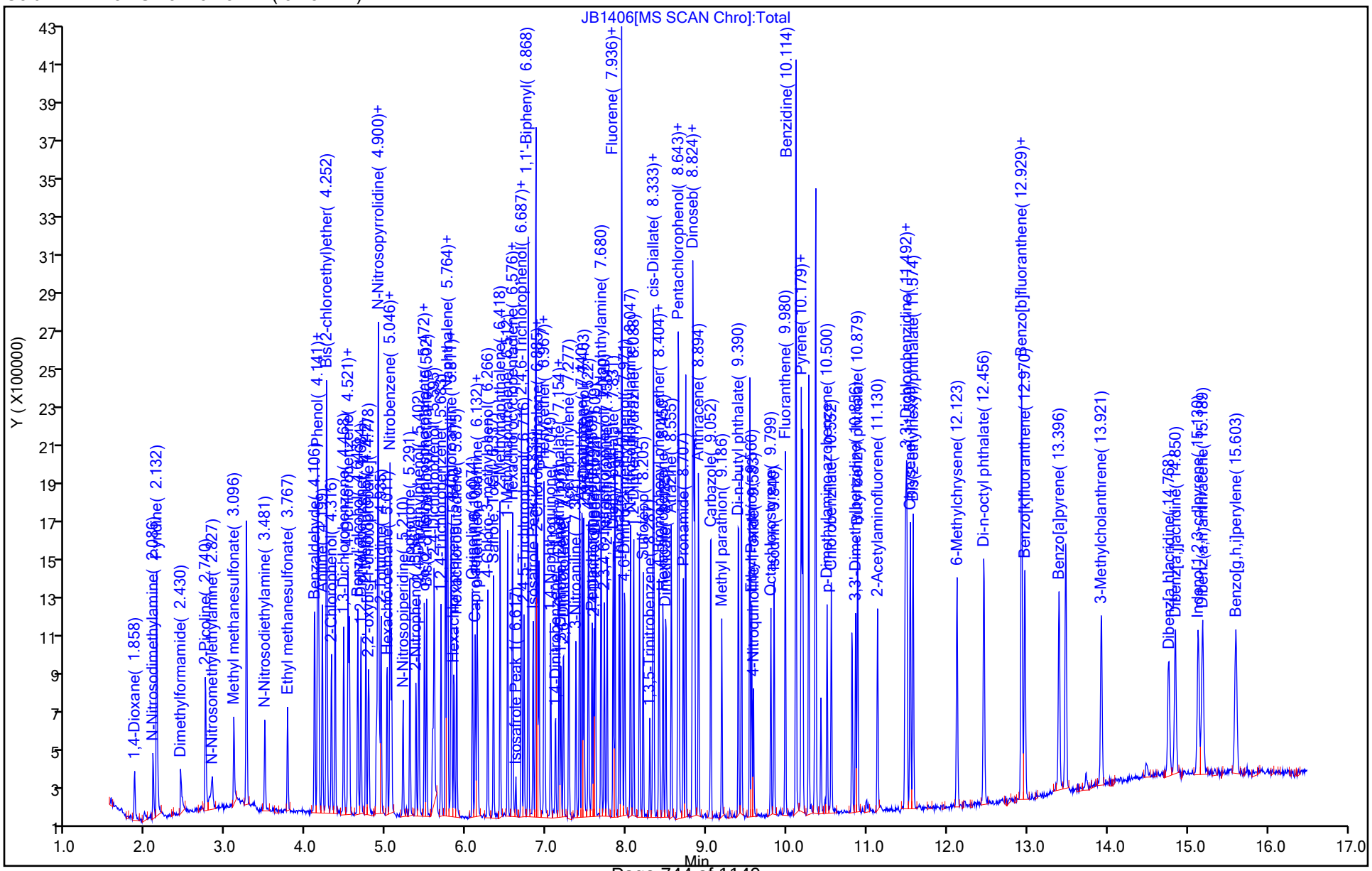
Report Date: 15-Feb-2022 08:32:27 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1406.D

Injection Date:	14-Feb-2022 13:59:30	Instrument ID:	HP23264	Operator ID:	apb10206
Lims ID:	IC L4			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

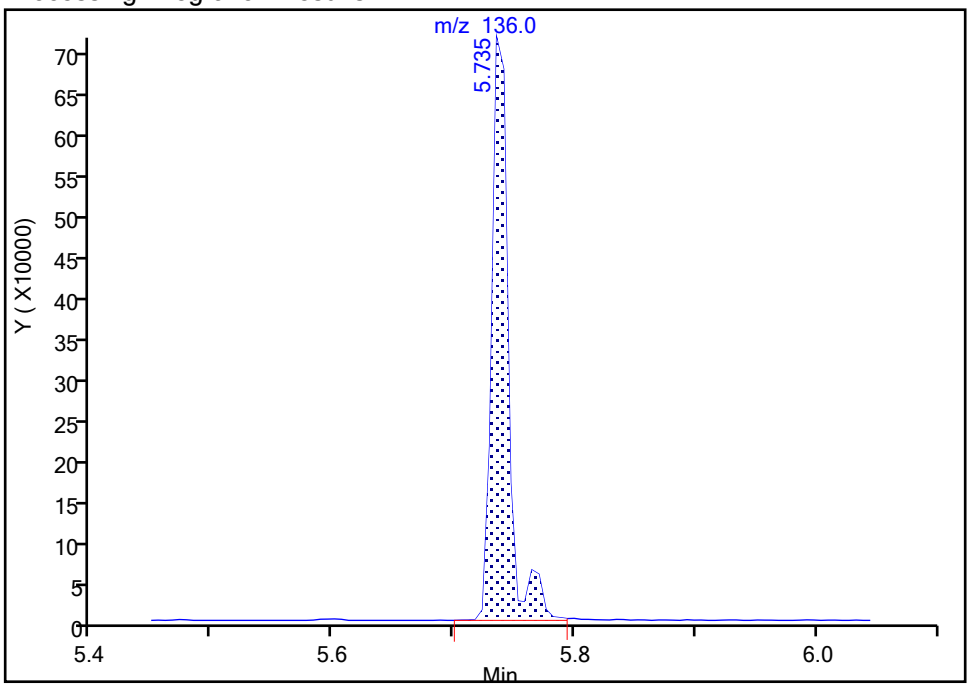
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1406.D
Injection Date: 14-Feb-2022 13:59:30 Instrument ID: HP23264
Lims ID: IC L4
Client ID:
Operator ID: apb10206 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

* 52 Naphthalene-d8, CAS: 1146-65-2

Signal: 1

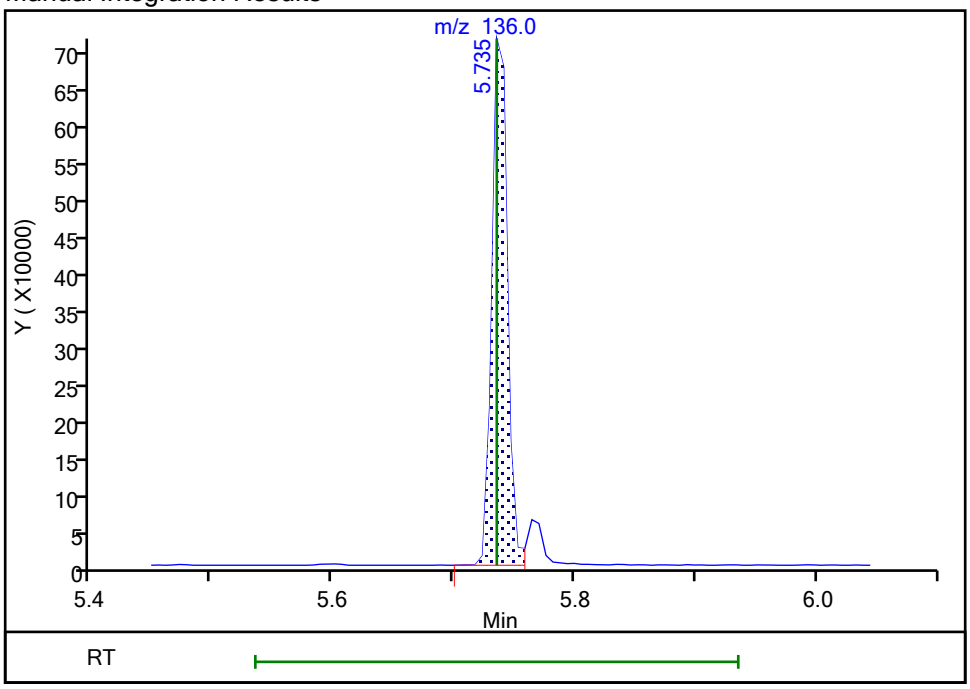
Processing Integration Results

RT: 5.74
Area: 696007
Amount: 5.000000
Amount Units: ug/ml



Manual Integration Results

RT: 5.74
Area: 642508
Amount: 5.000000
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:08:40
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

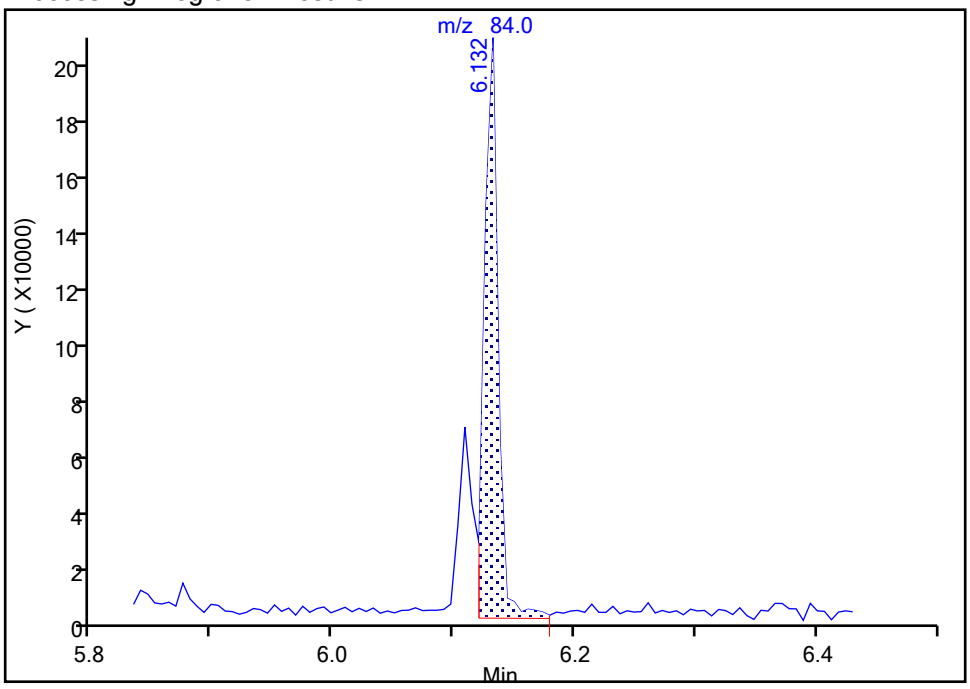
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1406.D
Injection Date: 14-Feb-2022 13:59:30 Instrument ID: HP23264
Lims ID: IC L4
Client ID:
Operator ID: apb10206 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

63 N-Nitrosodi-n-butylamine, CAS: 924-16-3

Signal: 1

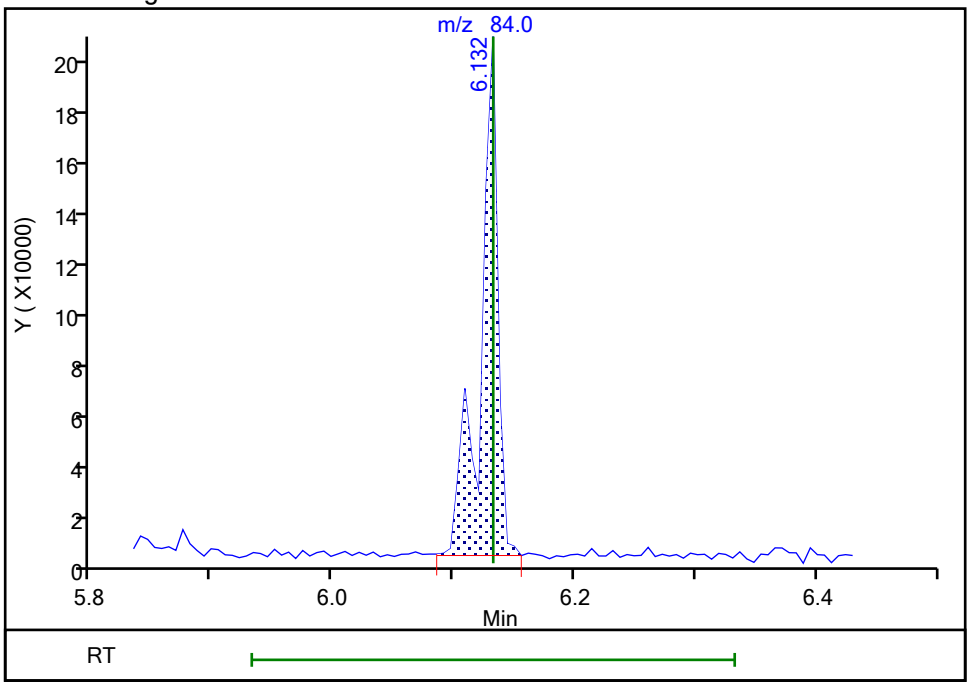
Processing Integration Results

RT: 6.13
Area: 152385
Amount: 3.176742
Amount Units: ug/ml



Manual Integration Results

RT: 6.13
Area: 195161
Amount: 3.545653
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:26:41
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

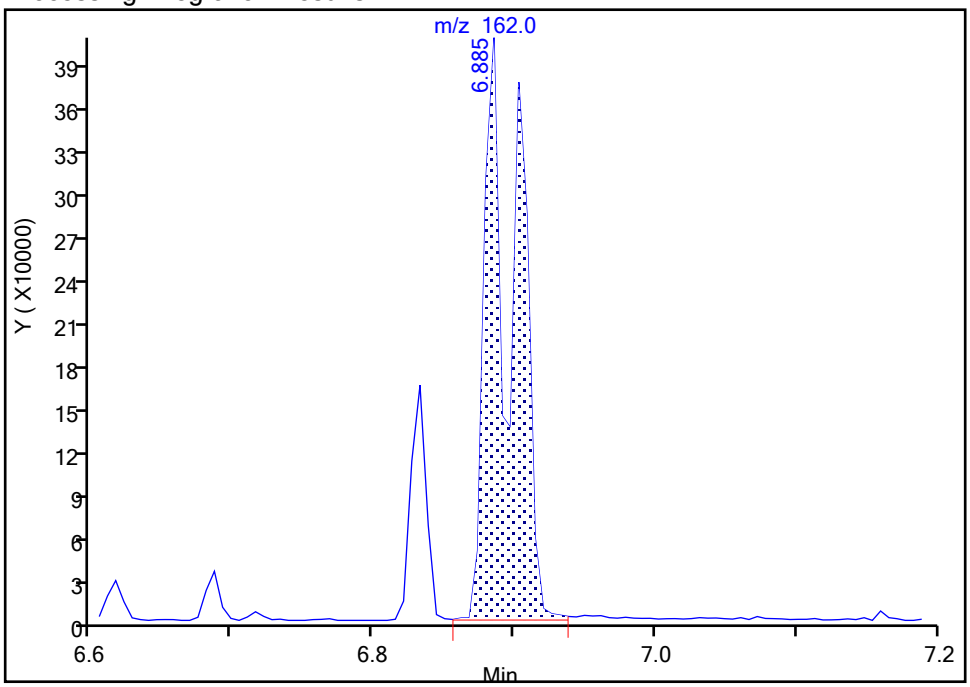
Data File:	\\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1406.D				
Injection Date:	14-Feb-2022 13:59:30	Instrument ID:	HP23264		
Lims ID:	IC L4				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

84 2-Chloronaphthalene, CAS: 91-58-7

Signal: 1

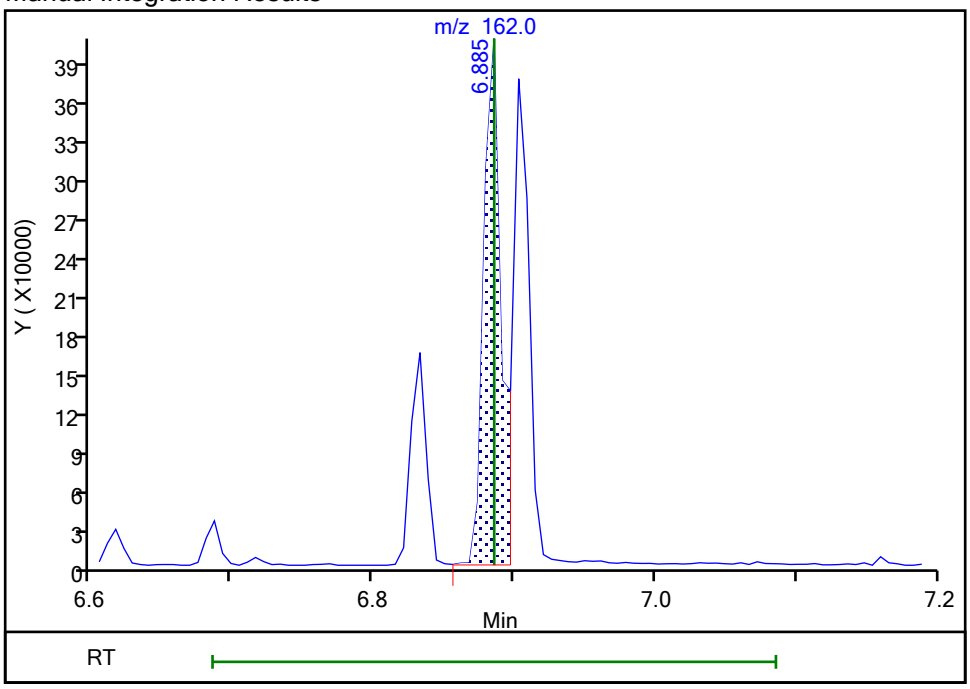
Processing Integration Results

RT: 6.89
Area: 621271
Amount: 6.093466
Amount Units: ug/ml



Manual Integration Results

RT: 6.89
Area: 340943
Amount: 4.337539
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:09:26

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

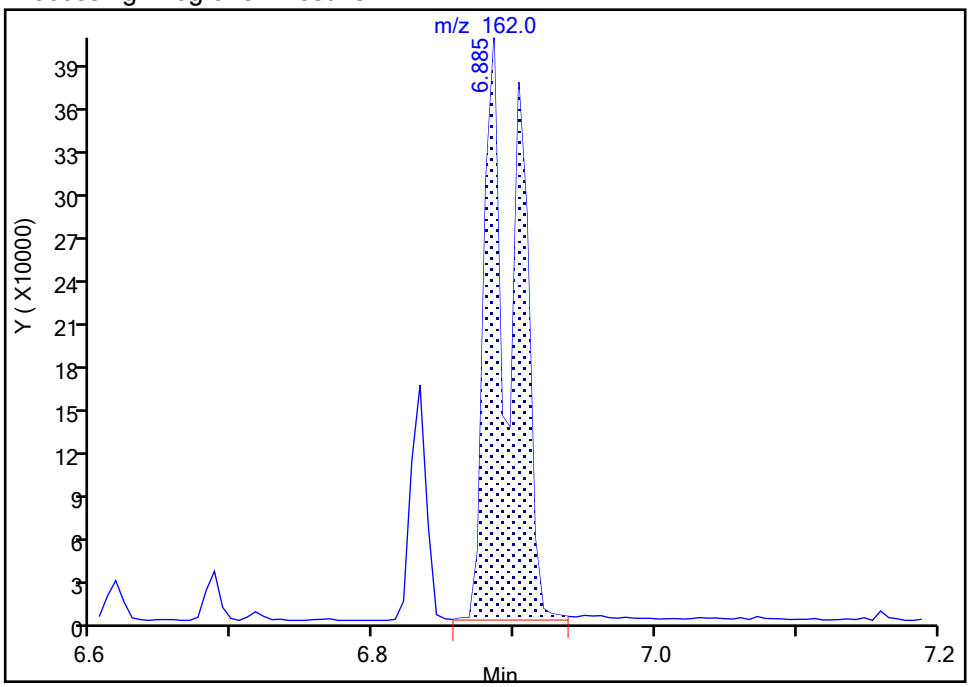
Data File:	\\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1406.D				
Injection Date:	14-Feb-2022 13:59:30	Instrument ID:	HP23264		
Lims ID:	IC L4				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

85 1-Chloronaphthalene, CAS: 90-13-1

Signal: 1

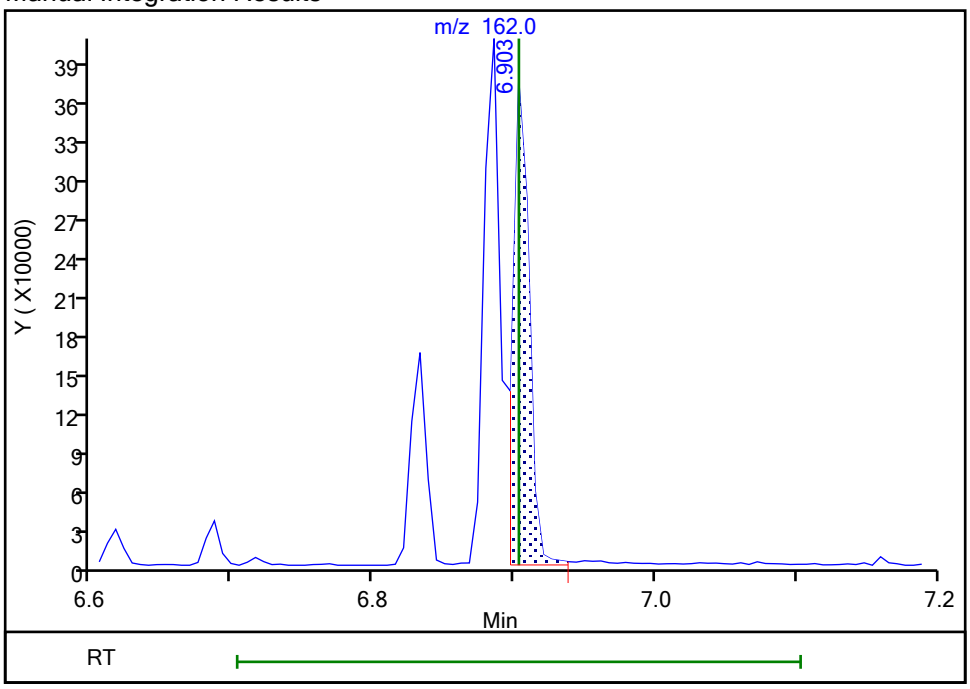
Processing Integration Results

RT: 6.89
Area: 621271
Amount: 6.428784
Amount Units: ug/ml



Manual Integration Results

RT: 6.90
Area: 280326
Amount: 3.648418
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:09:34
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1407.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Feb-2022 14:20:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L3
Misc. Info.: 410-0050350-008
Operator ID: apb10206 Instrument ID: HP23264
Sublist: chrom-MSSemi_HP23264*sub27

Method: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\MSSemi_HP23264.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Feb-2022 08:32:32 Calib Date: 14-Feb-2022 14:41:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1408.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: bauera Date: 14-Feb-2022 15:14:07

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.858	1.870	-0.012	96	33027	1.25	1.43	
	2 N-Nitrosodimethylamine	74	2.091	2.098	-0.007	95	47792	1.25	1.12	
	3 Pyridine	79	2.138	2.138	0.000	93	142371	2.50	2.22	M
	4 Dimethylformamide	73	2.453	2.430	0.023	90	50465	1.25	1.16	M
	5 2-Picoline	93	2.745	2.746	-0.001	91	72198	1.25	1.18	
	6 N-Nitrosomethylethylamine	88	2.827	2.833	-0.006	90	34559	1.25	1.31	M
	7 Methyl methanesulfonate	80	3.096	3.102	-0.006	84	42322	1.25	1.10	
$	9 2-Fluorophenol	112	3.253	3.259	-0.006	95	114132	2.50	2.21	
	11 N-Nitrosodiethylamine	102	3.481	3.487	-0.006	91	28105	1.25	1.11	
	12 Ethyl methanesulfonate	109	3.767	3.767	0.000	95	36212	1.25	1.22	
	13 Benzaldehyde	77	4.106	4.106	0.000	90	81996	1.25	1.40	
$	15 Phenol-d5	99	4.141	4.141	0.000	95	161490	2.50	2.21	
	16 Phenol	94	4.153	4.159	-0.006	96	81430	1.25	1.08	
	17 Aniline	93	4.199	4.200	-0.001	95	99606	1.25	1.11	
	18 Bis(2-chloroethyl)ether	93	4.258	4.264	-0.006	89	65925	1.25	1.13	
	19 2-Chlorophenol	128	4.316	4.316	0.000	95	53963	1.25	1.13	
	21 1,3-Dichlorobenzene	146	4.468	4.468	0.000	92	53127	1.25	1.08	
*	22 1,4-Dichlorobenzene-d4	152	4.521	4.521	-0.001	98	166770	5.00	5.00	
	23 1,4-Dichlorobenzene	146	4.538	4.538	0.000	93	57148	1.25	1.12	
	26 Benzyl alcohol	108	4.643	4.643	0.000	87	38431	1.25	1.12	
	27 1,2-Dichlorobenzene	146	4.684	4.684	0.000	90	57373	1.25	1.17	
	29 2-Methylphenol	108	4.742	4.743	-0.001	94	53023	1.25	1.07	
	30 2,2'-oxybis[1-chloropropane]	45	4.777	4.778	-0.001	93	118199	1.25	1.15	
	31 N-Nitrosopyrrolidine	100	4.871	4.877	-0.006	88	33842	1.25	1.16	
	34 4-Methylphenol	108	4.888	4.894	-0.006	94	58247	1.25	1.09	
	32 Acetophenone	105	4.900	4.900	0.000	87	91687	1.25	1.10	
	33 N-Nitrosodi-n-propylamine	70	4.900	4.900	0.000	79	56896	1.25	1.06	
	35 N-Nitrosomorpholine	56	4.918	4.918	0.000	86	52800	1.25	1.23	M
	36 2-Toluidine	106	4.935	4.935	0.000	93	101006	1.25	1.25	
	37 Hexachloroethane	117	5.011	5.005	0.006	90	28904	1.25	1.17	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 39 Nitrobenzene-d5	82	5.046	5.046	0.000	89	149706	2.50	2.19	
40 Nitrobenzene	77	5.064	5.064	0.000	88	83683	1.25	1.20	
41 N-Nitrosopiperidine	114	5.210	5.210	0.000	79	27621	1.25	1.10	
42 Isophorone	82	5.291	5.291	0.000	98	142674	1.25	1.12	
43 2-Nitrophenol	139	5.373	5.367	0.006	86	29357	1.25	1.15	
44 2,4-Dimethylphenol	107	5.402	5.402	0.000	98	65412	1.25	1.16	
46 o,o',o''-Triethylphosphorothioat	198	5.478	5.478	0.000	94	24641	1.25	1.20	
47 Bis(2-chloroethoxy)methane	93	5.501	5.502	-0.001	95	86741	1.25	1.15	
49 2,4-Dichlorophenol	162	5.595	5.595	0.000	94	40861	1.25	1.04	
50 1,2,4-Trichlorobenzene	180	5.682	5.683	-0.001	93	48431	1.25	1.17	
* 52 Naphthalene-d8	136	5.735	5.735	0.000	99	656428	5.00	5.00	M
53 Naphthalene	128	5.758	5.759	-0.001	97	156289	1.25	1.17	
55 Alpha-Terpineol	59	5.764	5.764	0.000	88	74941	1.25	1.16	
56 4-Chloroaniline	127	5.805	5.805	0.000	93	71350	1.25	1.20	
57 2,6-Dichlorophenol	162	5.811	5.817	-0.006	93	45262	1.25	1.20	
58 Hexachloropropene	213	5.846	5.846	0.000	94	34040	1.25	1.11	
59 Hexachlorobutadiene	225	5.875	5.875	0.000	94	27451	1.25	1.17	
61 Quinoline	129	6.074	6.074	0.000	94	102787	1.25	1.18	
62 Caprolactam	113	6.109	6.115	-0.006	74	21325	1.25	1.30	
63 N-Nitrosodi-n-butylamine	84	6.132	6.132	0.000	92	67535	1.25	1.20	M
64 p-Phenylene diamine	108	6.138	6.144	-0.006	90	44412	1.25	1.09	
65 4-Chloro-3-methylphenol	107	6.266	6.267	-0.001	94	52658	1.25	1.10	
66 Safrole, Total	162	6.336	6.337	-0.001	81	38348	1.25	1.16	
67 2-Methylnaphthalene	142	6.418	6.418	0.000	90	103608	1.25	1.17	
69 1-Methylnaphthalene	142	6.512	6.512	0.000	90	99089	1.25	1.19	
S 24 Dinitrotoluene	165				0			2.22	
71 Hexachlorocyclopentadiene	237	6.570	6.570	0.000	95	36261	1.25	1.14	
70 1,2,4,5-Tetrachlorobenzene	216	6.576	6.576	0.000	96	46177	1.25	1.12	
72 Isosafrole Peak 1	162	6.617	6.617	0.000	89	9201	0.2000	0.2297	
79 2,4,6-Trichlorophenol	196	6.687	6.687	0.000	81	31479	1.25	1.12	
80 2,4,5-Trichlorophenol	196	6.716	6.716	0.000	92	36202	1.25	1.15	
$ 81 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	98	220106	2.50	2.30	
82 Isosafrole Peak 2	162	6.833	6.833	0.000	87	44715	1.05	1.05	
83 1,1'-Biphenyl	154	6.868	6.868	0.000	95	124949	1.25	1.14	
84 2-Chloronaphthalene	162	6.885	6.886	-0.001	94	100129	1.25	1.19	M
85 1-Chloronaphthalene	162	6.903	6.903	0.000	96	84865	1.25	1.03	M
86 Phenyl ether	170	6.967	6.967	0.000	85	63723	1.25	1.11	
87 2-Nitroaniline	138	6.979	6.979	0.000	76	33554	1.25	1.06	
88 1,4-Naphthoquinone	158	7.049	7.049	0.000	75	42108	1.25	1.15	
89 1,4-Dinitrobenzene	168	7.113	7.113	0.000	85	15071	1.25	1.12	
90 Dimethyl phthalate	163	7.154	7.154	0.000	96	120539	1.25	1.17	
91 1,3-Dinitrobenzene	168	7.177	7.177	0.000	78	18102	1.25	1.16	M
92 2,6-Dinitrotoluene	165	7.212	7.213	0.000	83	26226	1.25	1.14	
93 Acenaphthylene	152	7.277	7.277	0.000	99	152233	1.25	1.13	
95 3-Nitroaniline	138	7.370	7.364	0.006	89	30778	1.25	1.13	
* 96 Acenaphthene-d10	164	7.411	7.411	0.000	96	352164	5.00	5.00	
97 Acenaphthene	153	7.446	7.440	0.006	98	99598	1.25	1.14	
98 2,4-Dinitrophenol	184	7.469	7.469	0.000	77	60126	5.00	4.27	
100 4-Nitrophenol	109	7.522	7.522	0.000	94	64728	3.75	3.38	
99 Pentachlorobenzene	250	7.568	7.569	-0.001	95	43373	1.25	1.18	
102 2,4-Dinitrotoluene	165	7.592	7.592	0.000	84	33161	1.25	1.08	
101 Dibenzofuran	168	7.609	7.610	-0.001	96	138917	1.25	1.17	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
104 1-Naphthylamine	143	7.679	7.680	-0.001	96	94448	1.25	1.17	
105 2,3,4,6-Tetrachlorophenol	232	7.720	7.721	0.000	78	28108	1.25	1.12	
106 2-Naphthylamine	143	7.755	7.756	-0.001	97	111732	1.25	1.21	
107 Diethyl phthalate	149	7.831	7.831	0.000	96	128468	1.25	1.17	
109 Thionazin	107	7.907	7.907	0.000	74	24015	1.25	1.16	
108 Fluorene	166	7.936	7.937	-0.001	95	107602	1.25	1.11	
110 4-Chlorophenyl phenyl ether	204	7.936	7.937	-0.001	80	52781	1.25	1.20	
111 N-Nitro-o-toluidine	152	7.942	7.942	0.000	76	33733	1.25	1.20	
112 4-Nitroaniline	138	7.942	7.942	0.000	76	30423	1.25	1.13	
113 4,6-Dinitro-2-methylphenol	198	7.977	7.977	0.000	66	48000	3.75	2.89	
114 N-Nitrosodiphenylamine	169	8.047	8.047	0.000	64	83501	1.06	0.99	
115 1,2-Diphenylhydrazine	77	8.088	8.088	0.000	42	162613	1.25	1.08	
$ 116 2,4,6-Tribromophenol	330	8.158	8.158	0.000	85	29921	2.50	2.19	
117 Sulfotepp	97	8.205	8.205	0.000	75	34178	1.25	1.19	
118 1,3,5-Trinitrobenzene	213	8.287	8.293	-0.006	81	8630	1.25	1.01	
120 cis-Diallate	86	8.328	8.328	0.000	96	49545	0.9250	0.8867	M
119 Phorate	75	8.333	8.334	-0.001	93	110081	1.25	1.15	
121 Phenacetin	108	8.333	8.339	-0.006	88	68587	1.25	1.14	
122 4-Bromophenyl phenyl ether	248	8.403	8.404	-0.001	75	29927	1.25	1.12	
123 trans-Diallate	86	8.409	8.410	-0.001	93	19747	0.3250	0.3324	
124 Hexachlorobenzene	284	8.450	8.456	-0.006	91	34807	1.25	1.20	
125 Dimethoate	87	8.485	8.491	-0.006	93	67213	1.25	1.14	
126 Atrazine	200	8.555	8.561	-0.006	87	44360	1.25	1.39	
127 Pentachlorophenol	266	8.643	8.643	0.000	90	39741	2.50	2.14	
129 4-Aminobiphenyl	169	8.649	8.649	0.000	92	129346	1.25	1.16	
128 Pentachloronitrobenzene	237	8.655	8.655	0.000	83	18051	1.25	1.16	
130 Pronamide	173	8.707	8.707	0.000	90	58371	1.25	1.22	
133 Dinoseb	211	8.818	8.818	0.000	87	25194	1.25	1.03	
* 131 Phenanthrene-d10	188	8.824	8.824	0.000	97	683800	5.00	5.00	
134 Disulfoton	88	8.836	8.836	0.000	95	113001	1.25	1.28	
132 Phenanthrene	178	8.847	8.847	0.000	97	167260	1.25	1.09	
135 Anthracene	178	8.894	8.894	0.000	98	172407	1.25	1.16	
136 Carbazole	167	9.052	9.052	0.000	96	159671	1.25	1.14	
137 Methyl parathion	109	9.186	9.186	0.000	89	49551	1.25	1.14	
138 Di-n-butyl phthalate	149	9.396	9.396	0.000	100	220591	1.25	1.16	
139 Ethyl Parathion	109	9.560	9.560	0.000	79	30185	1.25	1.11	
140 4-Nitroquinoline-1-oxide	190	9.583	9.583	0.000	87	16423	1.25	1.04	
S 68 Diallate	86				0		1.25	1.22	
142 Octachlorostyrene	308	9.799	9.799	0.000	85	13966	1.25	1.09	
143 Isodrin	193	9.840	9.840	0.000	86	23278	1.25	1.16	
144 Fluoranthene	202	9.980	9.980	0.000	99	175233	1.25	1.11	
145 Benzidine	184	10.114	10.115	0.000	99	393223	3.75	3.41	
* 146 Pyrene-d10 (IS)	212	10.179	10.179	0.000	97	665613	5.00	5.00	
147 Pyrene	202	10.196	10.196	0.000	96	181911	1.25	1.07	
$ 148 p-Terphenyl-d14	244	10.360	10.360	0.000	98	241234	2.50	2.22	
149 p-Dimethylamino azobenzene	225	10.500	10.500	0.000	92	25960	1.25	1.08	
150 Chlorobenzilate	139	10.552	10.552	0.000	80	74787	1.25	1.15	
152 3,3'-Dimethylbenzidine	212	10.856	10.856	0.000	98	88400	1.25	1.09	
153 Butyl benzyl phthalate	149	10.885	10.879	0.006	95	94648	1.25	1.10	
155 2-Acetylaminofluorene	181	11.130	11.131	0.000	90	65980	1.25	1.07	
S 94 Isosafrole	162				0		1.25	1.28	
157 3,3'-Dichlorobenzidine	252	11.475	11.475	0.000	76	61359	1.25	1.08	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
158 4,4'-Methylene bis(2-chloroanil	231	11.486	11.487	-0.001	91	33099	1.25	1.20	
156 Benzo[a]anthracene	228	11.498	11.498	0.000	99	150125	1.25	1.08	
159 Chrysene	228	11.539	11.539	0.000	97	145081	1.25	1.11	
160 Bis(2-ethylhexyl) phthalate	149	11.574	11.574	0.000	96	133768	1.25	1.09	
161 6-Methylchrysene	242	12.123	12.123	0.000	99	109349	1.25	1.12	
162 Di-n-octyl phthalate	149	12.456	12.456	0.000	98	232844	1.25	1.07	
164 Benzo[b]fluoranthene	252	12.929	12.929	0.000	96	164224	1.25	1.10	
163 7,12-Dimethylbenz(a)anthracene	256	12.929	12.929	0.000	70	68935	1.25	1.10	
165 Benzo[k]fluoranthene	252	12.970	12.970	0.000	99	158057	1.25	1.12	
166 Benzo[a]pyrene	252	13.396	13.396	0.000	79	141108	1.25	1.08	M
* 167 Perylene-d12	264	13.478	13.478	0.000	96	589453	5.00	5.00	
168 3-Methylcholanthrene	268	13.927	13.927	0.000	91	81476	1.25	1.18	
169 Dibenz[a,h]acridine	279	14.768	14.768	0.000	91	108850	1.25	1.08	
170 Dibenz[a,j]acridine	279	14.850	14.850	0.000	95	121701	1.25	1.11	
171 Indeno[1,2,3-cd]pyrene	276	15.136	15.136	0.000	97	128819	1.25	1.08	
172 Dibenz(a,h)anthracene	278	15.188	15.189	-0.001	95	137771	1.25	1.10	
173 Benzo[g,h,i]perylene	276	15.597	15.603	-0.006	95	144907	1.25	1.12	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_3_00018 Amount Added: 1.00 Units: mL

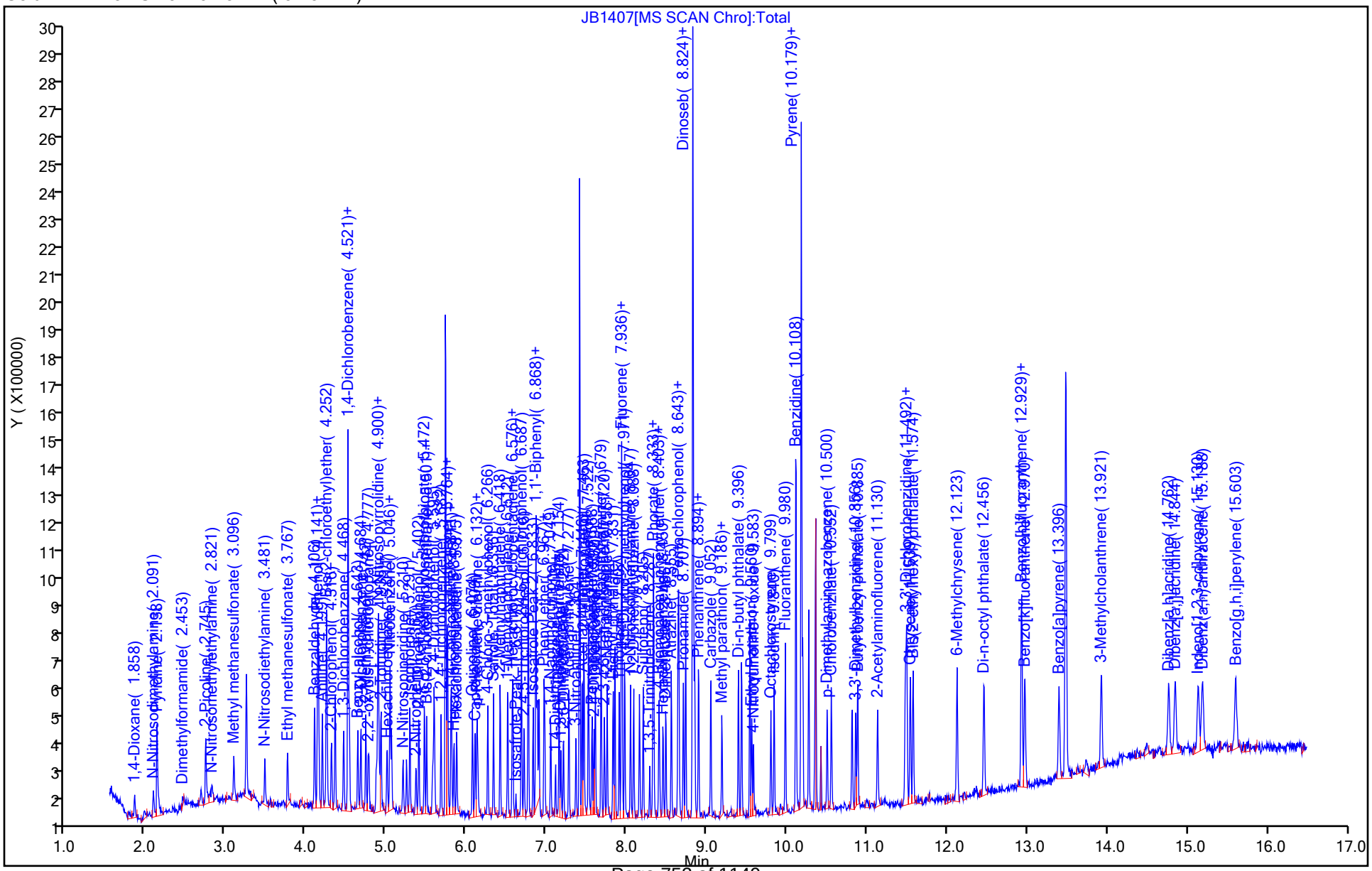
Report Date: 15-Feb-2022 08:32:33 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1407.D

Injection Date:	14-Feb-2022 14:20:30	Instrument ID:	HP23264	Operator ID:	apb10206
Lims ID:	IC L3			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

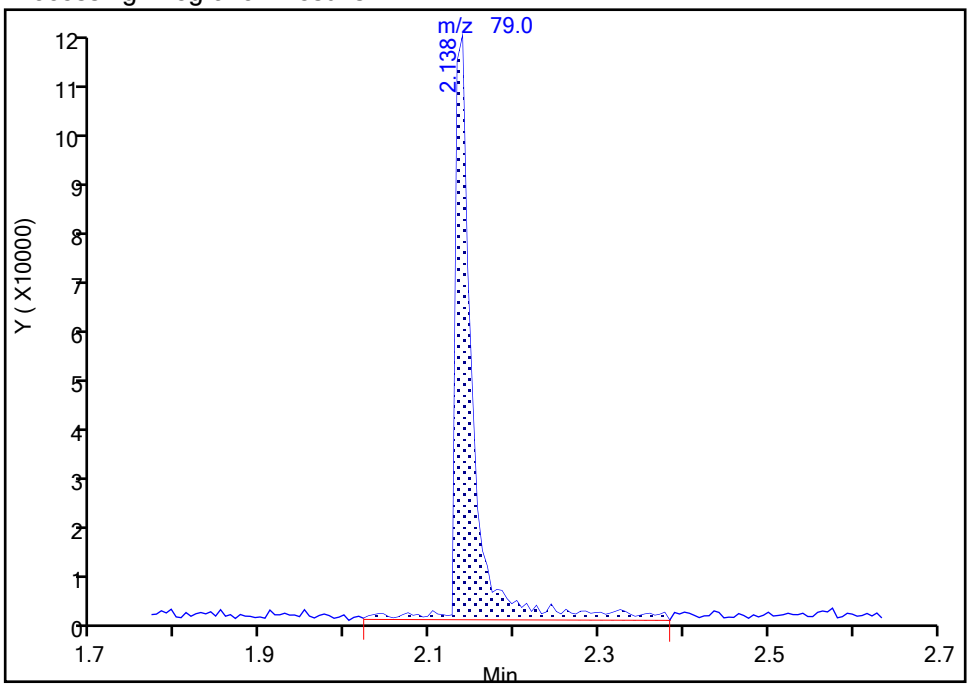
Data File:	\\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1407.D				
Injection Date:	14-Feb-2022 14:20:30	Instrument ID:	HP23264		
Lims ID:	IC L3				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

3 Pyridine, CAS: 110-86-1

Signal: 1

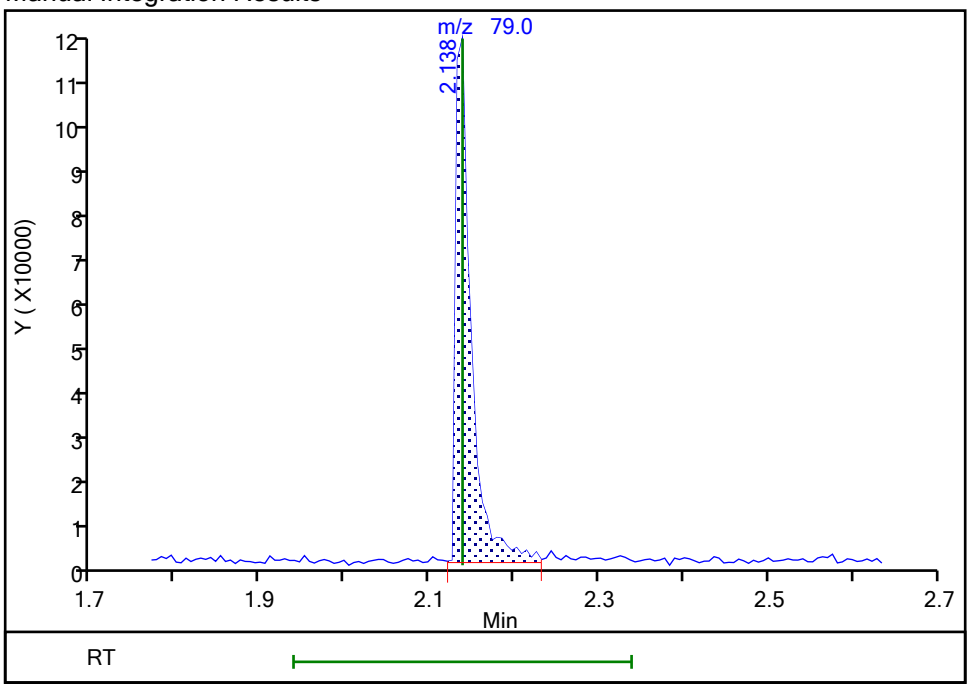
Processing Integration Results

RT: 2.14
Area: 162877
Amount: 2.276798
Amount Units: ug/ml



Manual Integration Results

RT: 2.14
Area: 142371
Amount: 2.222336
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:10:53
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

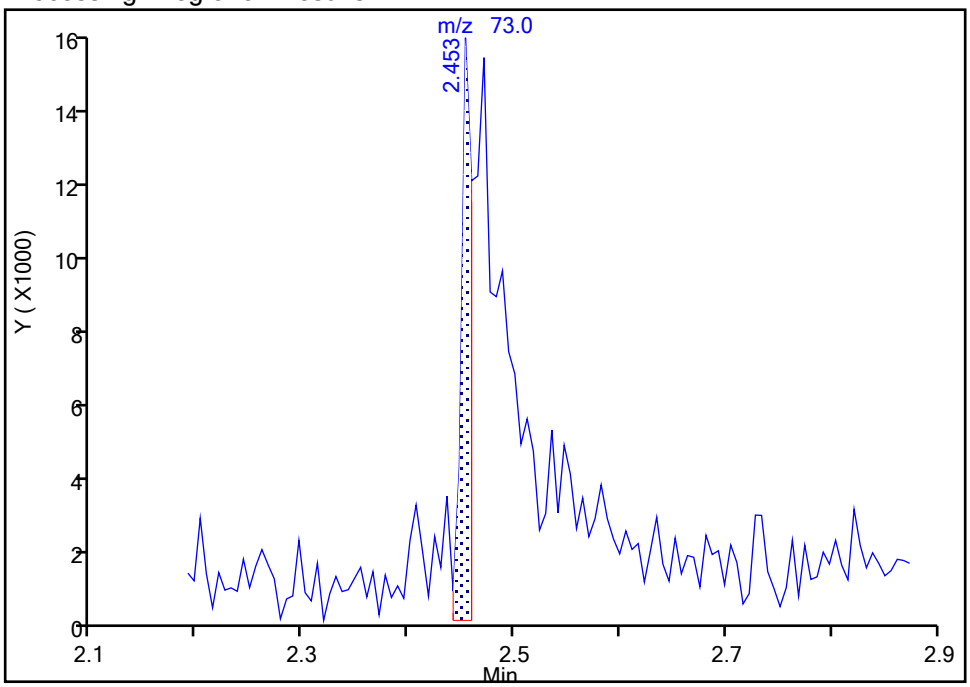
Data File:	\\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1407.D				
Injection Date:	14-Feb-2022 14:20:30	Instrument ID:	HP23264		
Lims ID:	IC L3				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

4 Dimethylformamide, CAS: 68-12-2

Signal: 1

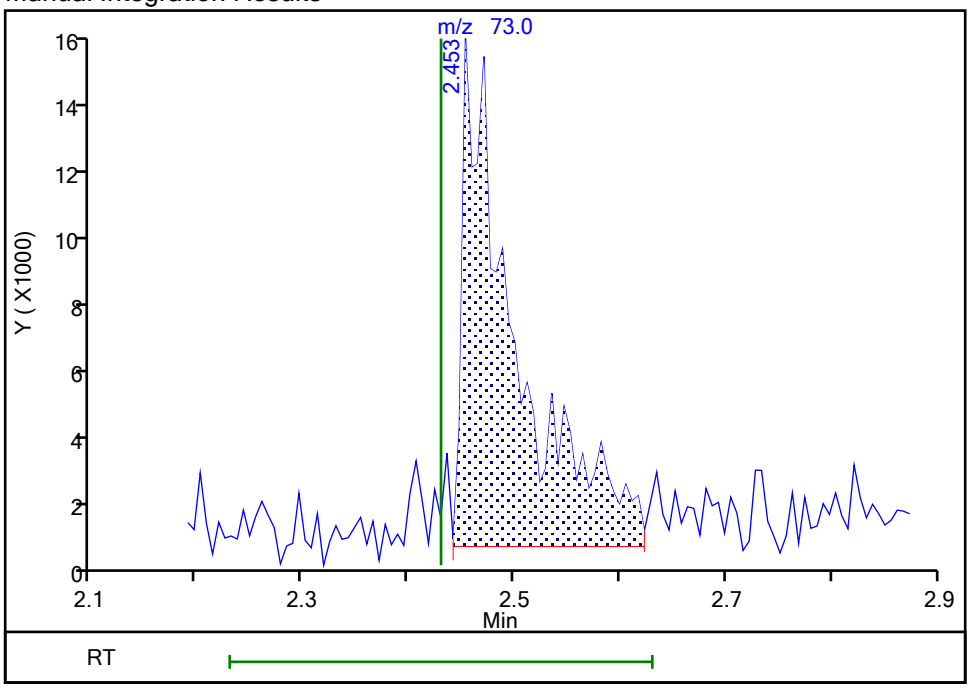
Processing Integration Results

RT: 2.45
Area: 8944
Amount: 0.262023
Amount Units: ug/ml



Manual Integration Results

RT: 2.45
Area: 50465
Amount: 1.158074
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:11:01
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

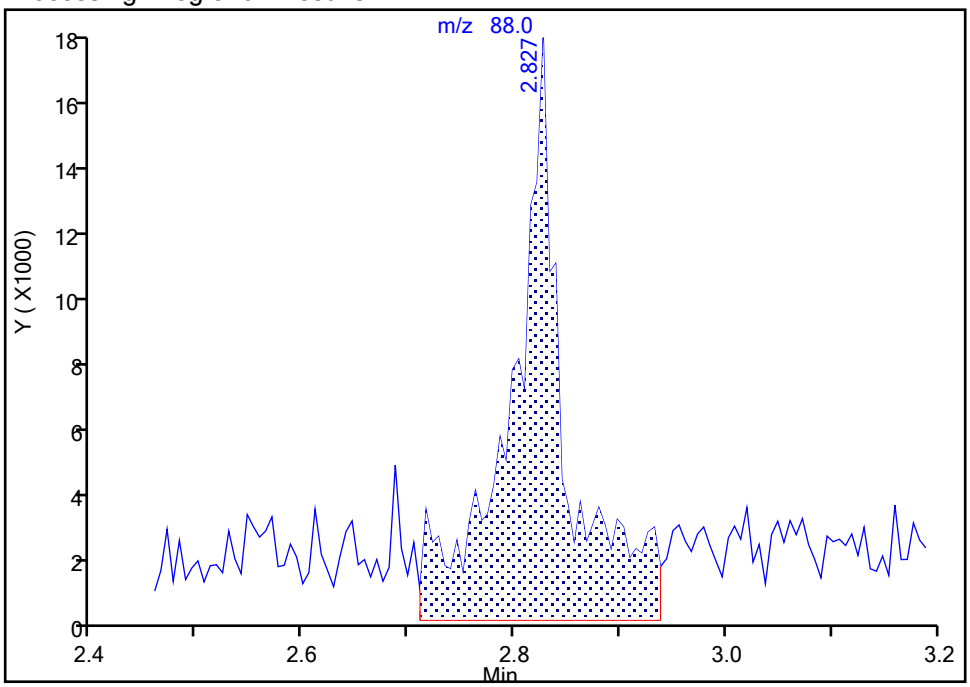
Data File:	\\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1407.D				
Injection Date:	14-Feb-2022 14:20:30	Instrument ID:	HP23264		
Lims ID:	IC L3				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 N-Nitrosomethylethylamine, CAS: 10595-95-6

Signal: 1

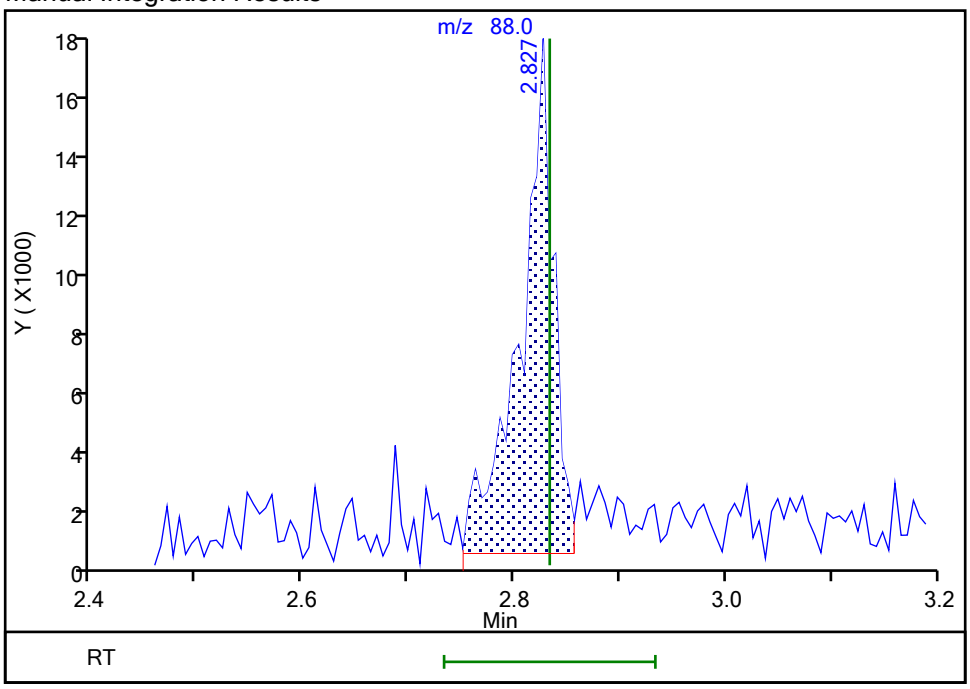
Processing Integration Results

RT: 2.83
Area: 59818
Amount: 1.404991
Amount Units: ug/ml



Manual Integration Results

RT: 2.83
Area: 34559
Amount: 1.308439
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:11:09

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

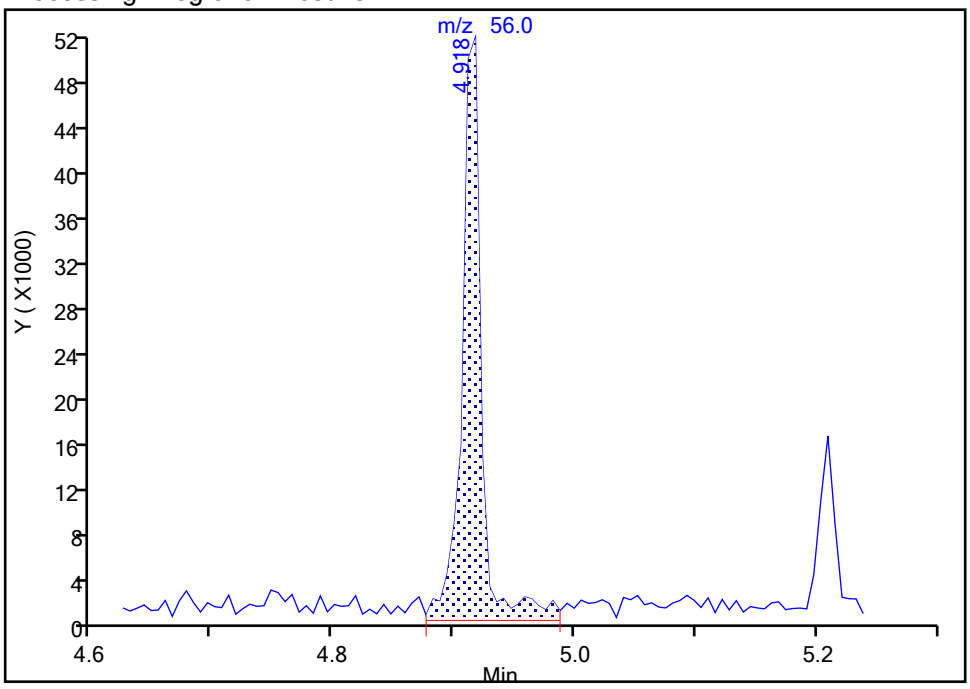
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1407.D
Injection Date: 14-Feb-2022 14:20:30 Instrument ID: HP23264
Lims ID: IC L3
Client ID:
Operator ID: apb10206 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

35 N-Nitrosomorpholine, CAS: 59-89-2

Signal: 1

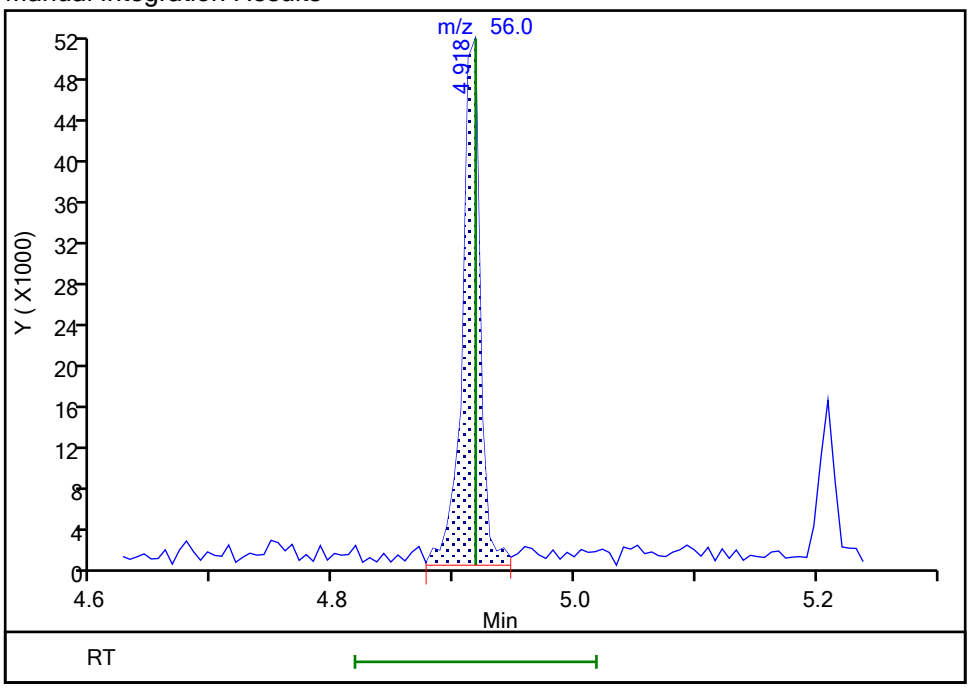
Processing Integration Results

RT: 4.92
Area: 57443
Amount: 1.419102
Amount Units: ug/ml



Manual Integration Results

RT: 4.92
Area: 52800
Amount: 1.233191
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:11:35
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

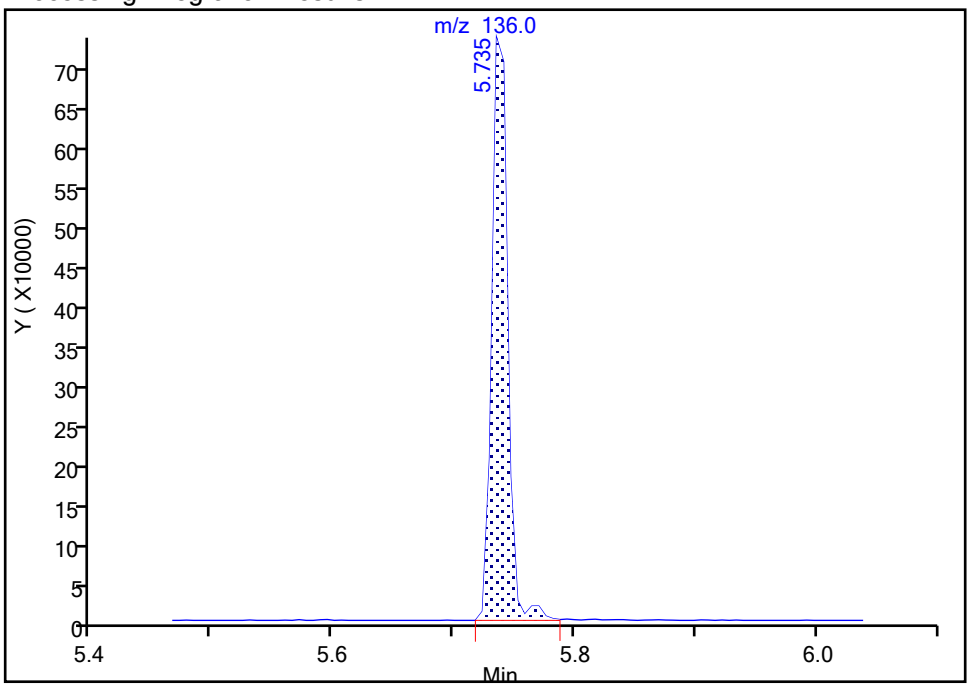
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1407.D
Injection Date: 14-Feb-2022 14:20:30 Instrument ID: HP23264
Lims ID: IC L3
Client ID:
Operator ID: apb10206 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

* 52 Naphthalene-d8, CAS: 1146-65-2

Signal: 1

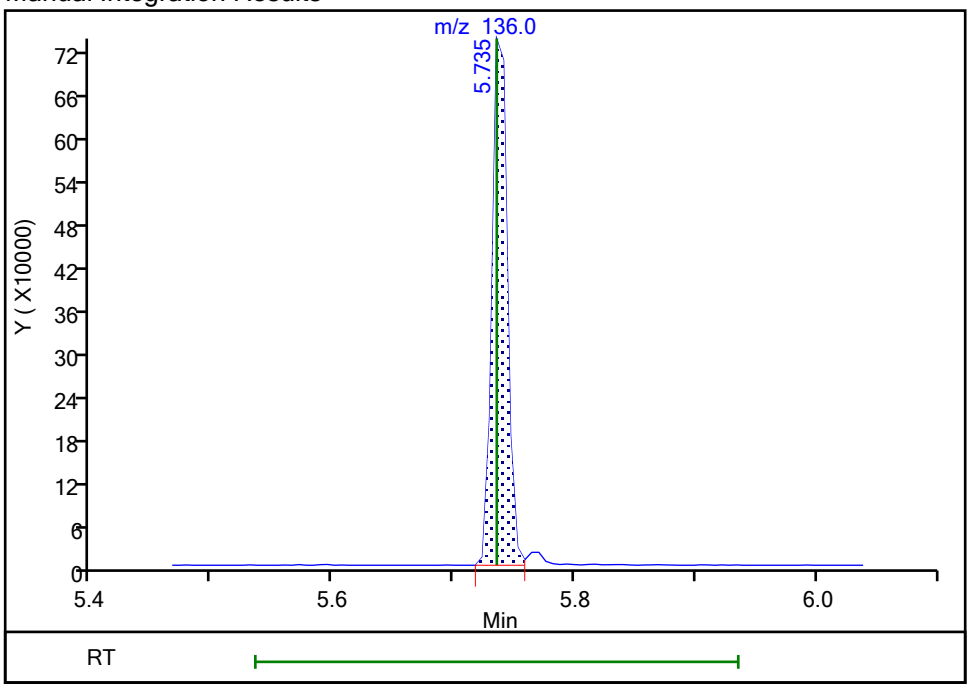
Processing Integration Results

RT: 5.74
Area: 673337
Amount: 5.000000
Amount Units: ug/ml



Manual Integration Results

RT: 5.74
Area: 656428
Amount: 5.000000
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:10:25
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

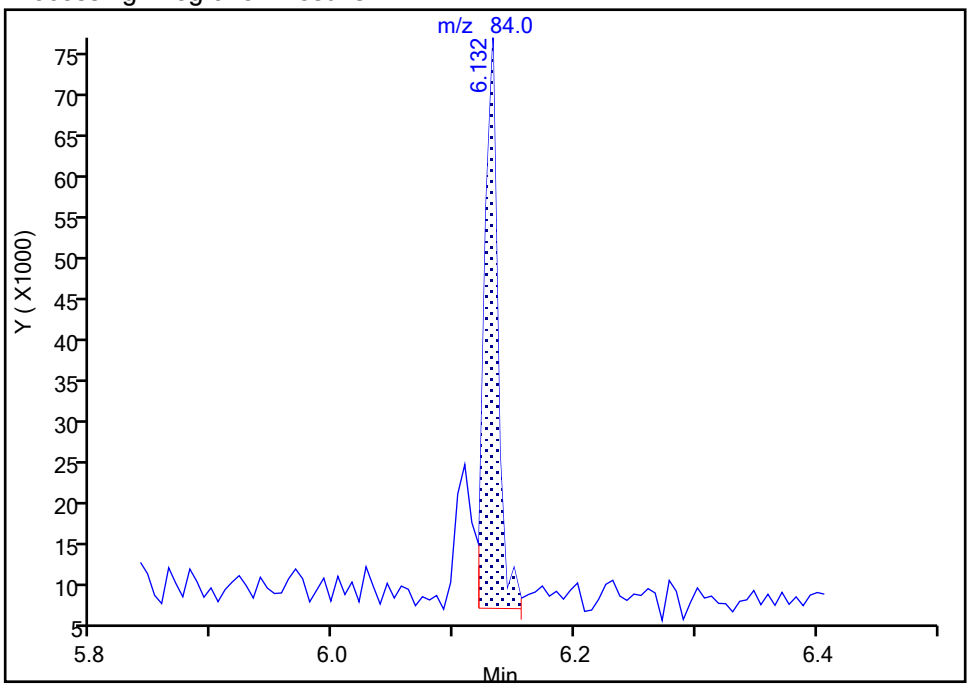
Data File:	\\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1407.D				
Injection Date:	14-Feb-2022 14:20:30	Instrument ID:	HP23264		
Lims ID:	IC L3				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

63 N-Nitrosodi-n-butylamine, CAS: 924-16-3

Signal: 1

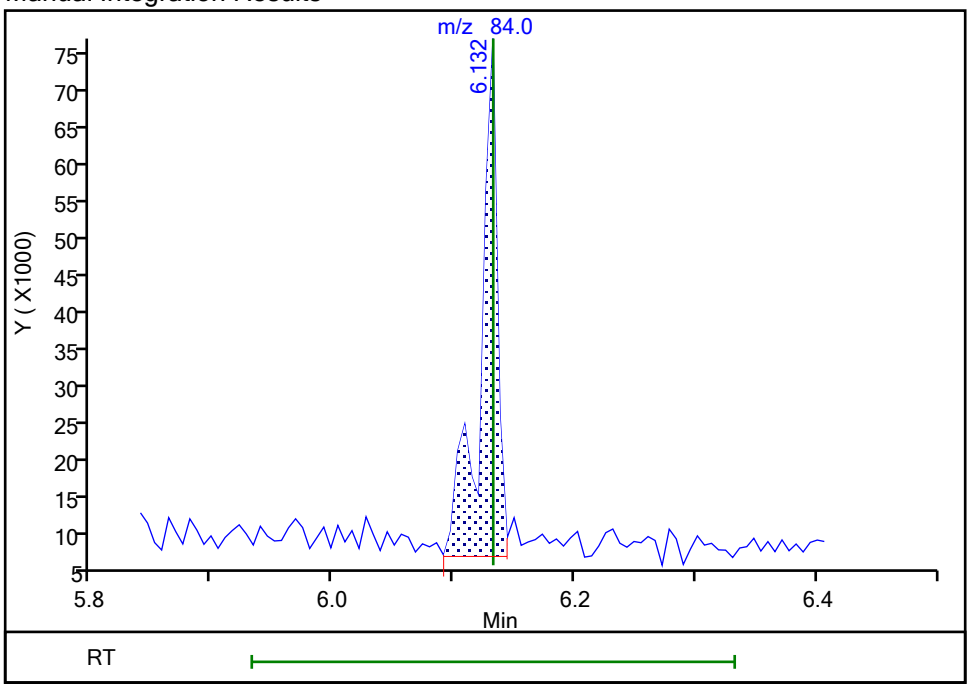
Processing Integration Results

RT: 6.13
Area: 51949
Amount: 0.987253
Amount Units: ug/ml



Manual Integration Results

RT: 6.13
Area: 67535
Amount: 1.200946
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:27:14

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

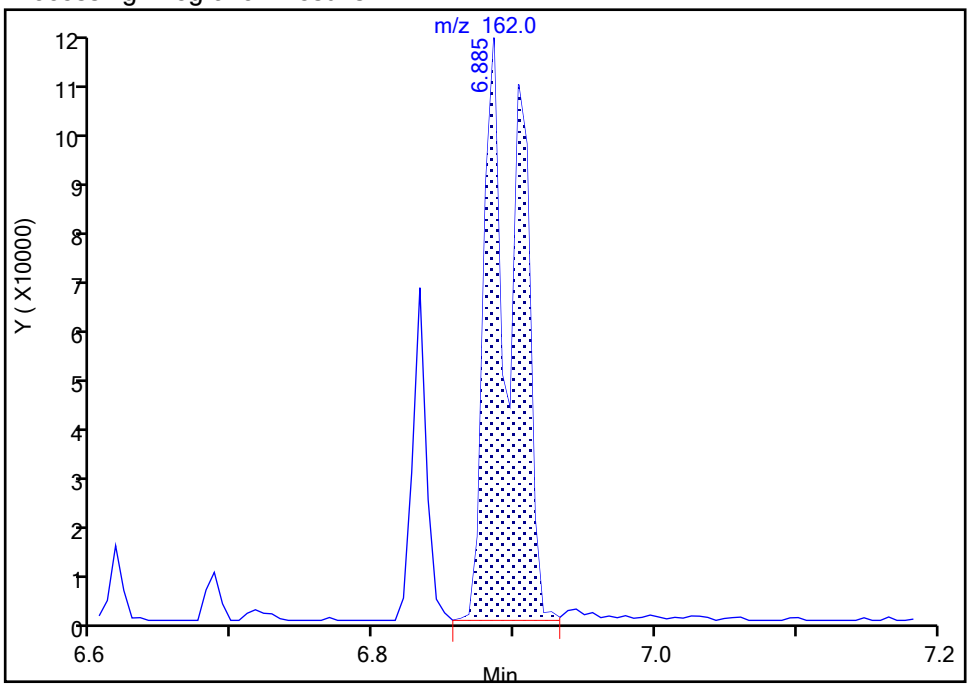
Data File:	\\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1407.D				
Injection Date:	14-Feb-2022 14:20:30	Instrument ID:	HP23264		
Lims ID:	IC L3				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

84 2-Chloronaphthalene, CAS: 91-58-7

Signal: 1

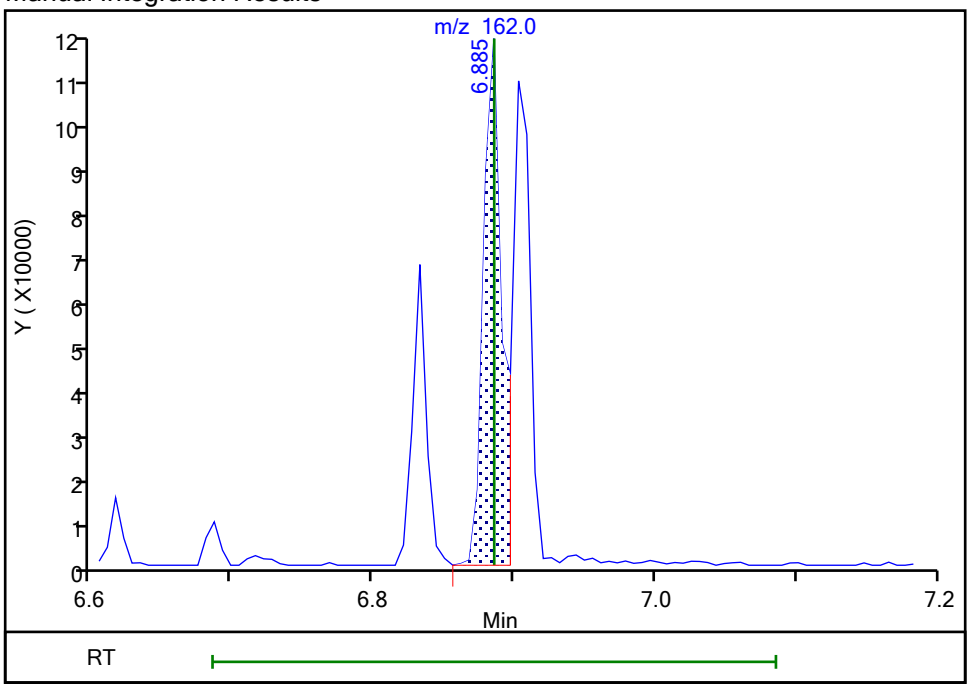
Processing Integration Results

RT: 6.89
Area: 184995
Amount: 1.896552
Amount Units: ug/ml



Manual Integration Results

RT: 6.89
Area: 100129
Amount: 1.192041
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:12:20
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

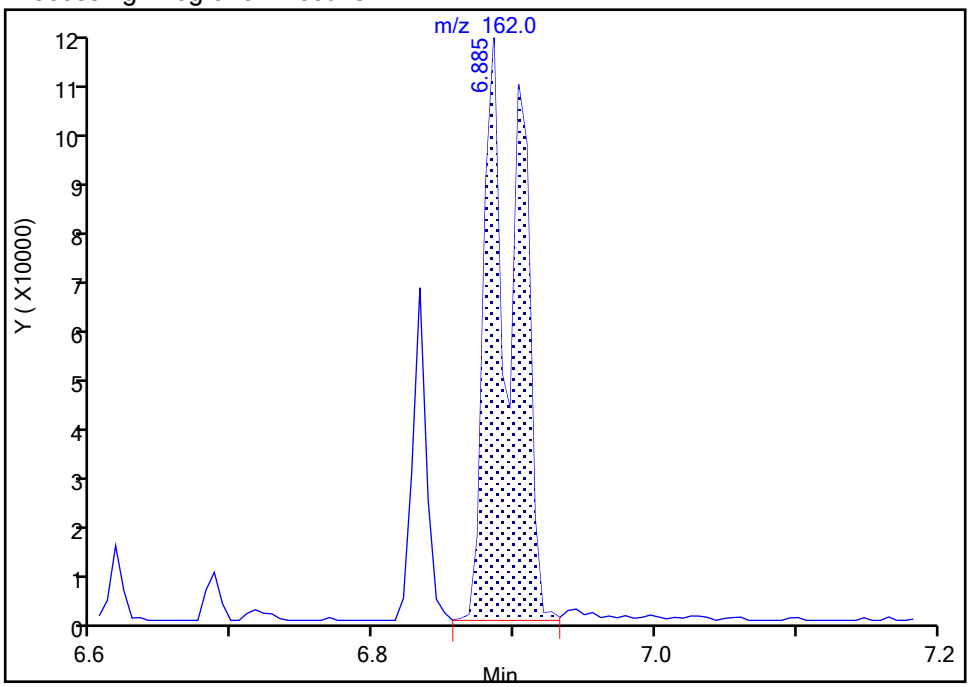
Data File:	\\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1407.D				
Injection Date:	14-Feb-2022 14:20:30	Instrument ID:	HP23264		
Lims ID:	IC L3				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

85 1-Chloronaphthalene, CAS: 90-13-1

Signal: 1

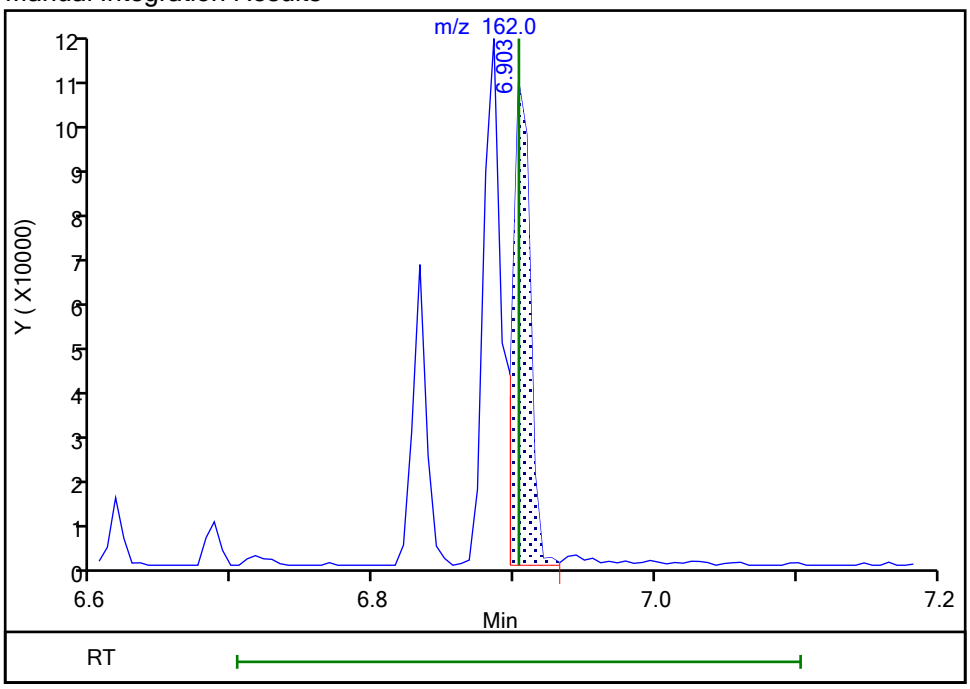
Processing Integration Results

RT: 6.89
Area: 184995
Amount: 2.069478
Amount Units: ug/ml



Manual Integration Results

RT: 6.90
Area: 84865
Amount: 1.033569
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:12:28
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

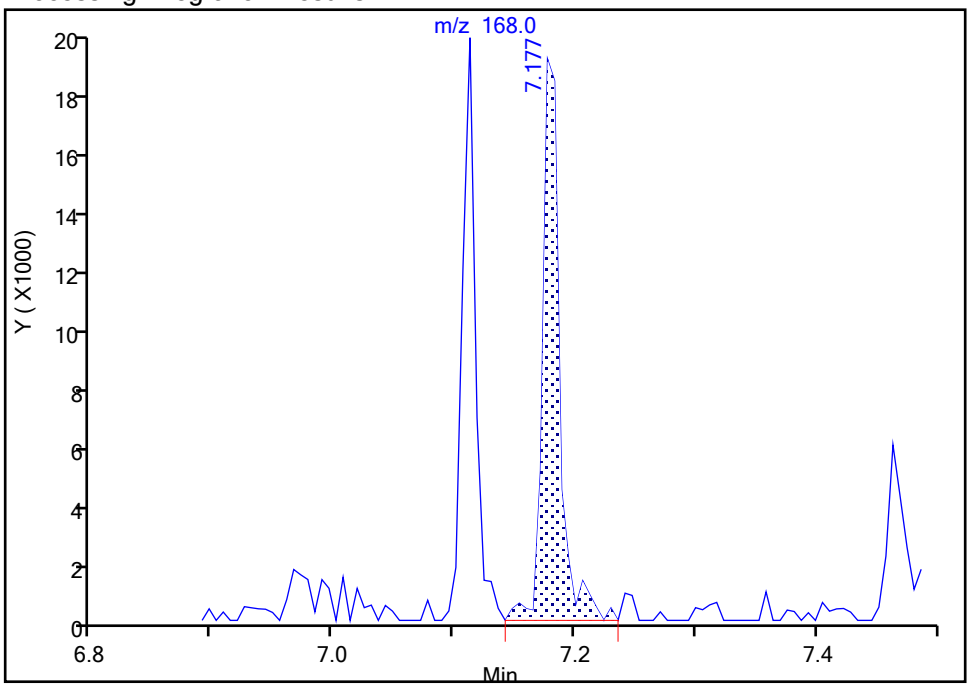
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1407.D
Injection Date: 14-Feb-2022 14:20:30 Instrument ID: HP23264
Lims ID: IC L3
Client ID:
Operator ID: apb10206 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

91 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

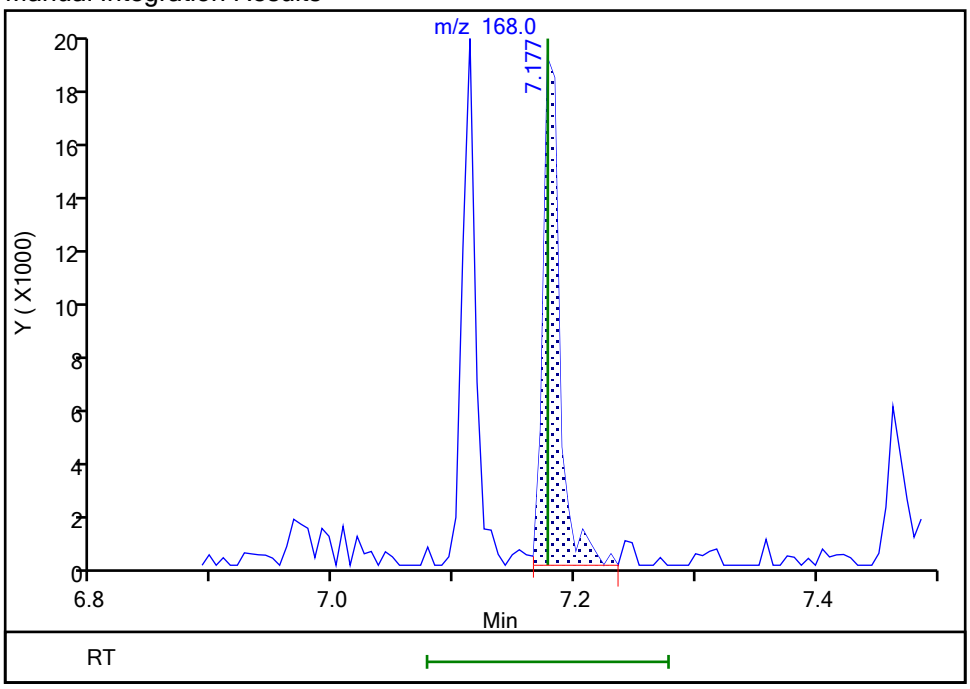
Processing Integration Results

RT: 7.18
Area: 18631
Amount: 1.140973
Amount Units: ug/ml



Manual Integration Results

RT: 7.18
Area: 18102
Amount: 1.160943
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:12:43
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

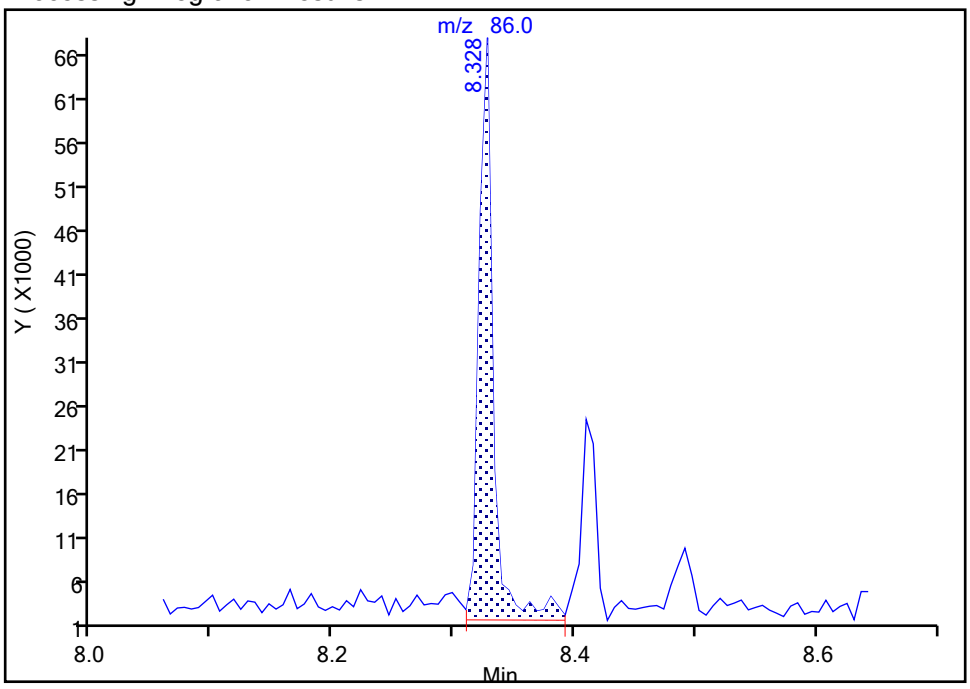
Data File:	\\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1407.D				
Injection Date:	14-Feb-2022 14:20:30	Instrument ID:	HP23264		
Lims ID:	IC L3				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

120 cis-Diallate, CAS: 17708-57-5

Signal: 1

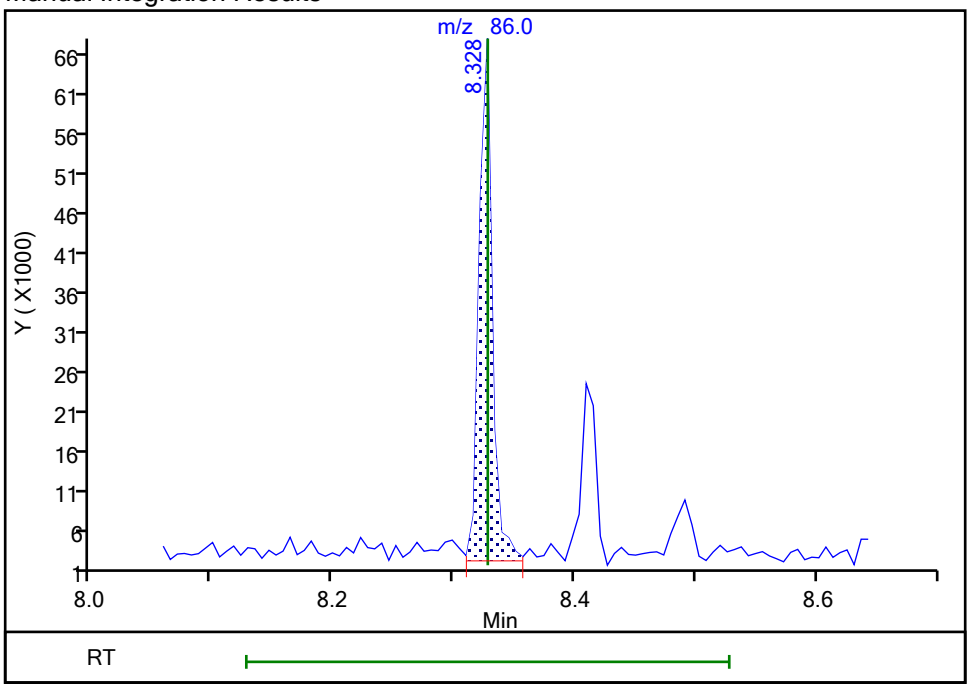
Processing Integration Results

RT: 8.33
Area: 54202
Amount: 0.933342
Amount Units: ug/ml



Manual Integration Results

RT: 8.33
Area: 49545
Amount: 0.886713
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:13:21

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

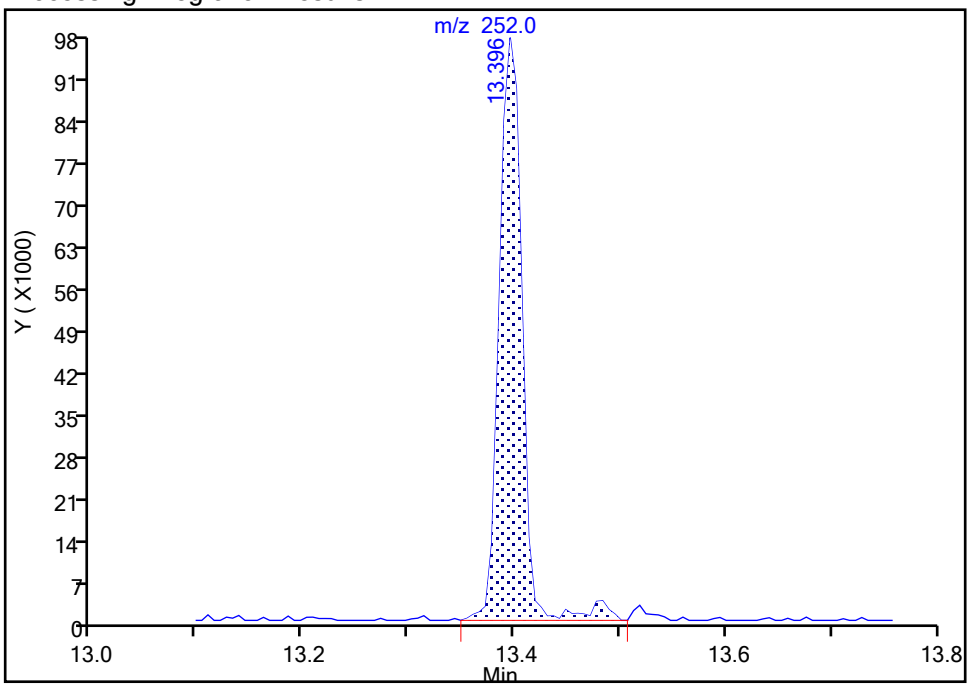
Data File:	\\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1407.D				
Injection Date:	14-Feb-2022 14:20:30	Instrument ID:	HP23264		
Lims ID:	IC L3				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

166 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

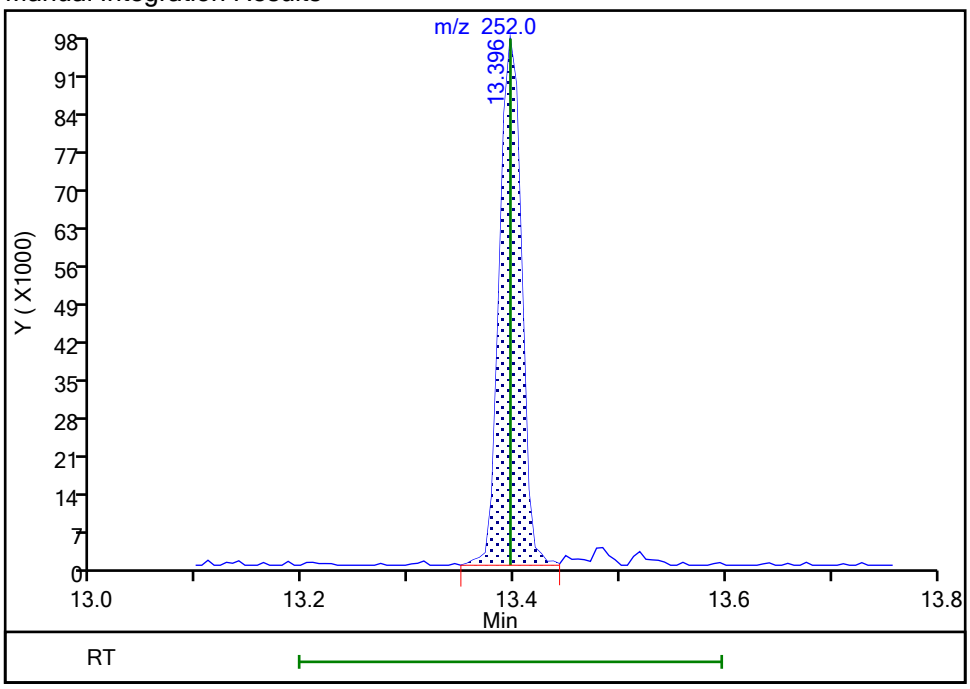
Processing Integration Results

RT: 13.40
Area: 146412
Amount: 1.112443
Amount Units: ug/ml



Manual Integration Results

RT: 13.40
Area: 141108
Amount: 1.082236
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:13:56
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1408.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 14-Feb-2022 14:41:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L2
Misc. Info.: 410-0050350-009
Operator ID: apb10206 Instrument ID: HP23264
Sublist: chrom-MSSemi_HP23264*sub27

Method: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\MSSemi_HP23264.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Feb-2022 08:32:39 Calib Date: 14-Feb-2022 14:41:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1408.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: bauera Date: 14-Feb-2022 15:16:48

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.864	1.870	-0.006	63	8541	0.2500	0.3725	M
	2 N-Nitrosodimethylamine	74	2.103	2.098	0.005	66	12995	0.2500	0.3056	
	3 Pyridine	79	2.144	2.138	0.006	91	29376	0.5000	0.4609	M
	4 Dimethylformamide	73	2.424	2.430	-0.006	1	3427	0.2500	0.0790	
	5 2-Picoline	93	2.751	2.746	0.005	83	16848	0.2500	0.2767	
	6 N-Nitrosomethylethylamine	88	2.833	2.833	0.000	15	14111	0.2500	0.5370	
	7 Methyl methanesulfonate	80	3.102	3.102	0.000	86	13441	0.2500	0.3526	
$	9 2-Fluorophenol	112	3.254	3.259	-0.005	95	25744	0.5000	0.5012	
	11 N-Nitrosodiethylamine	102	3.487	3.487	0.000	93	7740	0.2500	0.3077	
	12 Ethyl methanesulfonate	109	3.767	3.767	0.000	75	9741	0.2500	0.3288	
	13 Benzaldehyde	77	4.106	4.106	0.000	88	21421	0.2500	0.3687	
$	15 Phenol-d5	99	4.141	4.141	0.000	91	33908	0.5000	0.4664	
	16 Phenol	94	4.159	4.159	0.000	71	19516	0.2500	0.2613	
	17 Aniline	93	4.205	4.200	0.005	92	20066	0.2500	0.2252	
	18 Bis(2-chloroethyl)ether	93	4.258	4.264	-0.006	63	14268	0.2500	0.2461	
	19 2-Chlorophenol	128	4.316	4.316	0.000	90	11536	0.2500	0.2423	
	21 1,3-Dichlorobenzene	146	4.468	4.468	0.000	86	11451	0.2500	0.2343	
*	22 1,4-Dichlorobenzene-d4	152	4.521	4.521	0.000	98	165927	5.00	5.00	
	23 1,4-Dichlorobenzene	146	4.538	4.538	0.000	86	13541	0.2500	0.2656	
	26 Benzyl alcohol	108	4.643	4.643	0.000	78	7655	0.2500	0.2244	
	27 1,2-Dichlorobenzene	146	4.684	4.684	0.000	87	11982	0.2500	0.2458	
	29 2-Methylphenol	108	4.743	4.743	0.000	92	13443	0.2500	0.2719	
	30 2,2'-oxybis[1-chloropropane]	45	4.778	4.778	0.000	91	27088	0.2500	0.2640	
	31 N-Nitrosopyrrolidine	100	4.877	4.877	0.000	70	7618	0.2500	0.2625	
	34 4-Methylphenol	108	4.889	4.894	-0.005	79	15345	0.2500	0.2892	
	32 Acetophenone	105	4.900	4.900	0.000	82	22241	0.2500	0.2685	
	33 N-Nitrosodi-n-propylamine	70	4.900	4.900	0.000	68	16045	0.2500	0.3005	
	35 N-Nitrosomorpholine	56	4.918	4.918	0.000	40	17270	0.2500	0.4054	
	36 2-Toluidine	106	4.929	4.935	-0.006	93	19241	0.2500	0.2402	
	37 Hexachloroethane	117	5.005	5.005	0.000	83	7417	0.2500	0.3008	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 39 Nitrobenzene-d5	82	5.046	5.046	0.000	90	31739	0.5000	0.4659	
40 Nitrobenzene	77	5.064	5.064	0.000	65	17511	0.2500	0.2518	
41 N-Nitrosopiperidine	114	5.210	5.210	0.000	68	7400	0.2500	0.2948	
42 Isophorone	82	5.291	5.291	0.000	96	33080	0.2500	0.2608	
43 2-Nitrophenol	139	5.373	5.367	0.006	63	7021	0.2500	0.2754	
44 2,4-Dimethylphenol	107	5.402	5.402	0.000	91	14084	0.2500	0.2510	
46 o,o',o''-Triethylphosphorothioat	198	5.478	5.478	0.000	84	4288	0.2500	0.2100	
47 Bis(2-chloroethoxy)methane	93	5.502	5.502	0.000	93	18839	0.2500	0.2507	
49 2,4-Dichlorophenol	162	5.595	5.595	0.000	63	10782	0.2500	0.2761	
50 1,2,4-Trichlorobenzene	180	5.683	5.683	0.000	86	9758	0.2500	0.2361	
* 52 Naphthalene-d8	136	5.735	5.735	0.000	99	653323	5.00	5.00	
53 Naphthalene	128	5.759	5.759	0.000	97	32727	0.2500	0.2454	
55 Alpha-Terpineol	59	5.764	5.764	0.000	75	14821	0.2500	0.2308	
56 4-Chloroaniline	127	5.805	5.805	0.000	77	12194	0.2500	0.2058	
57 2,6-Dichlorophenol	162	5.817	5.817	0.000	85	8370	0.2500	0.2236	
58 Hexachloropropene	213	5.840	5.846	-0.006	88	7332	0.2500	0.2395	
59 Hexachlorobutadiene	225	5.875	5.875	0.000	87	5429	0.2500	0.2323	
61 Quinoline	129	6.074	6.074	0.000	93	22177	0.2500	0.2556	
62 Caprolactam	113	6.109	6.115	-0.006	75	5765	0.2500	0.3537	M
63 N-Nitrosodi-n-butylamine	84	6.132	6.132	0.000	83	8776	0.2500	0.1568	M
64 p-Phenylene diamine	108	6.144	6.144	0.000	68	9333	0.2500	0.2299	
65 4-Chloro-3-methylphenol	107	6.267	6.267	0.000	89	12804	0.2500	0.2689	
66 Safrole, Total	162	6.337	6.337	0.000	72	7640	0.2500	0.2312	
67 2-Methylnaphthalene	142	6.418	6.418	0.000	88	20459	0.2500	0.2313	
69 1-Methylnaphthalene	142	6.512	6.512	0.000	92	19876	0.2500	0.2399	
S 24 Dinitrotoluene	165				0			0.5351	
71 Hexachlorocyclopentadiene	237	6.570	6.570	0.000	72	7118	0.2500	0.2208	
70 1,2,4,5-Tetrachlorobenzene	216	6.582	6.576	0.006	91	10174	0.2500	0.2421	
72 Isosafrole Peak 1	162	6.617	6.617	0.000	21	1456	0.0400	0.0358	Ma
79 2,4,6-Trichlorophenol	196	6.687	6.687	0.000	78	6329	0.2500	0.2218	
80 2,4,5-Trichlorophenol	196	6.722	6.716	0.006	85	7007	0.2500	0.2191	
$ 81 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	96	43866	0.5000	0.4526	
82 Isosafrole Peak 2	162	6.833	6.833	0.000	78	8030	0.2100	0.1857	
83 1,1'-Biphenyl	154	6.868	6.868	0.000	94	27302	0.2500	0.2450	
84 2-Chloronaphthalene	162	6.886	6.886	0.000	81	17138	0.2500	0.2011	
85 1-Chloronaphthalene	162	6.903	6.903	0.000	96	23655	0.2500	0.2839	
86 Phenyl ether	170	6.967	6.967	0.000	87	15788	0.2500	0.2718	
87 2-Nitroaniline	138	6.979	6.979	0.000	79	8694	0.2500	0.2717	
88 1,4-Naphthoquinone	158	7.055	7.049	0.006	71	9330	0.2500	0.2513	
89 1,4-Dinitrobenzene	168	7.107	7.113	-0.006	57	4246	0.2500	0.3111	
90 Dimethyl phthalate	163	7.154	7.154	0.000	98	25832	0.2500	0.2466	
91 1,3-Dinitrobenzene	168	7.177	7.177	0.000	74	4448	0.2500	0.2811	
92 2,6-Dinitrotoluene	165	7.213	7.213	0.000	79	6527	0.2500	0.2795	
93 Acenaphthylene	152	7.277	7.277	0.000	98	31696	0.2500	0.2312	
95 3-Nitroaniline	138	7.364	7.364	0.000	84	7033	0.2500	0.2554	
* 96 Acenaphthene-d10	164	7.411	7.411	0.000	96	357336	5.00	5.00	
97 Acenaphthene	153	7.440	7.440	0.000	89	20200	0.2500	0.2271	
98 2,4-Dinitrophenol	184	7.464	7.469	-0.005	80	31263	2.50	2.19	
100 4-Nitrophenol	109	7.522	7.522	0.000	94	24014	1.50	1.23	
99 Pentachlorobenzene	250	7.569	7.569	0.000	91	9932	0.2500	0.2667	
102 2,4-Dinitrotoluene	165	7.592	7.592	0.000	84	7996	0.2500	0.2556	
101 Dibenzofuran	168	7.610	7.610	0.000	95	28942	0.2500	0.2402	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
104 1-Naphthylamine	143	7.680	7.680	0.000	93	21138	0.2500	0.2575	
105 2,3,4,6-Tetrachlorophenol	232	7.721	7.721	0.000	69	6769	0.2500	0.2663	
106 2-Naphthylamine	143	7.756	7.756	0.000	90	21099	0.2500	0.2261	
107 Diethyl phthalate	149	7.826	7.831	-0.005	94	26754	0.2500	0.2397	
109 Thionazin	107	7.907	7.907	0.000	76	6447	0.2500	0.3070	
108 Fluorene	166	7.931	7.937	-0.006	90	24663	0.2500	0.2518	
110 4-Chlorophenyl phenyl ether	204	7.937	7.937	0.000	78	10235	0.2500	0.2293	
111 N-Nitro-o-toluidine	152	7.942	7.942	0.000	63	8011	0.2500	0.2805	
112 4-Nitroaniline	138	7.942	7.942	0.000	55	6181	0.2500	0.2254	
113 4,6-Dinitro-2-methylphenol	198	7.972	7.977	-0.005	76	25920	1.50	1.55	
114 N-Nitrosodiphenylamine	169	8.047	8.047	0.000	66	18651	0.2125	0.2200	
115 1,2-Diphenylhydrazine	77	8.088	8.088	0.000	42	43593	0.2500	0.2859	
$ 116 2,4,6-Tribromophenol	330	8.158	8.158	0.000	84	5652	0.5000	0.4075	
117 Sulfotepp	97	8.205	8.205	0.000	74	9633	0.2500	0.3325	
118 1,3,5-Trinitrobenzene	213	8.287	8.293	-0.006	78	2264	0.2500	0.2616	
120 cis-Diallate	86	8.328	8.328	0.000	86	16344	0.1850	0.2901	
119 Phorate	75	8.334	8.334	0.000	91	24246	0.2500	0.2516	
121 Phenacetin	108	8.334	8.339	-0.005	64	13835	0.2500	0.2275	
122 4-Bromophenyl phenyl ether	248	8.404	8.404	0.000	68	6569	0.2500	0.2442	
123 trans-Diallate	86	8.410	8.410	0.000	56	8560	0.0650	0.1429	
124 Hexachlorobenzene	284	8.450	8.456	-0.006	90	7923	0.2500	0.2702	
125 Dimethoate	87	8.485	8.491	-0.006	92	16192	0.2500	0.2728	
126 Atrazine	200	8.555	8.561	-0.006	76	7491	0.2500	0.2329	
127 Pentachlorophenol	266	8.643	8.643	0.000	54	7706	0.5000	0.4108	
129 4-Aminobiphenyl	169	8.649	8.649	0.000	90	27274	0.2500	0.2422	
128 Pentachloronitrobenzene	237	8.649	8.655	-0.006	46	3702	0.2500	0.2359	
130 Pronamide	173	8.707	8.707	0.000	87	11701	0.2500	0.2422	
133 Dinoseb	211	8.818	8.818	0.000	60	6097	0.2500	0.2469	
* 131 Phenanthrene-d10	188	8.824	8.824	0.000	97	689402	5.00	5.00	
134 Disulfoton	88	8.830	8.836	-0.006	54	37552	0.2500	0.4211	
132 Phenanthrene	178	8.847	8.847	0.000	96	41377	0.2500	0.2678	
135 Anthracene	178	8.894	8.894	0.000	97	35613	0.2500	0.2369	
136 Carbazole	167	9.052	9.052	0.000	95	35985	0.2500	0.2555	
137 Methyl parathion	109	9.186	9.186	0.000	87	10236	0.2500	0.2340	
138 Di-n-butyl phthalate	149	9.390	9.396	-0.006	98	43002	0.2500	0.2243	
139 Ethyl Parathion	109	9.560	9.560	0.000	78	7146	0.2500	0.2607	
140 4-Nitroquinoline-1-oxide	190	9.583	9.583	0.000	67	3235	0.2500	0.2031	
S 68 Diallate	86				0		0.2500	0.4331	
142 Octachlorostyrene	308	9.799	9.799	0.000	73	3885	0.2500	0.3005	
143 Isodrin	193	9.840	9.840	0.000	77	6675	0.2500	0.3308	
144 Fluoranthene	202	9.980	9.980	0.000	98	40788	0.2500	0.2571	
145 Benzidine	184	10.109	10.115	-0.005	99	78538	0.7500	0.6935	
* 146 Pyrene-d10 (IS)	212	10.179	10.179	0.000	98	654505	5.00	5.00	
147 Pyrene	202	10.196	10.196	0.000	96	43002	0.2500	0.2568	
$ 148 p-Terphenyl-d14	244	10.360	10.360	0.000	98	52997	0.5000	0.4955	
149 p-Dimethylamino azobenzene	225	10.500	10.500	0.000	87	6410	0.2500	0.2711	
150 Chlorobenzilate	139	10.552	10.552	0.000	82	17236	0.2500	0.2704	
152 3,3'-Dimethylbenzidine	212	10.856	10.856	0.000	98	24150	0.2500	0.3024	
153 Butyl benzyl phthalate	149	10.879	10.879	0.000	95	21639	0.2500	0.2546	
155 2-Acetylaminofluorene	181	11.131	11.131	0.000	86	13883	0.2500	0.2286	
S 94 Isosafrole	162				0		0.2500	0.2215	
157 3,3'-Dichlorobenzidine	252	11.475	11.475	0.000	77	13801	0.2500	0.2473	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
158 4,4'-Methylene bis(2-chloroanil	231	11.487	11.487	0.000	68	7283	0.2500	0.2683	
156 Benzo[a]anthracene	228	11.493	11.498	-0.005	97	32404	0.2500	0.2371	
159 Chrysene	228	11.539	11.539	0.000	96	30565	0.2500	0.2375	
160 Bis(2-ethylhexyl) phthalate	149	11.574	11.574	0.000	95	29780	0.2500	0.2468	
161 6-Methylchrysene	242	12.123	12.123	0.000	96	22746	0.2500	0.2372	
162 Di-n-octyl phthalate	149	12.456	12.456	0.000	98	47808	0.2500	0.2198	
164 Benzo[b]fluoranthene	252	12.929	12.929	0.000	94	36166	0.2500	0.2436	
163 7,12-Dimethylbenz(a)anthracene	256	12.929	12.929	0.000	72	15277	0.2500	0.2434	
165 Benzo[k]fluoranthene	252	12.970	12.970	0.000	98	33894	0.2500	0.2398	
166 Benzo[a]pyrene	252	13.396	13.396	0.000	81	31456	0.2500	0.2417	
* 167 Perylene-d12	264	13.478	13.478	0.000	97	588457	5.00	5.00	
168 3-Methylcholanthrene	268	13.927	13.927	0.000	83	15785	0.2500	0.2288	
169 Dibenz[a,h]acridine	279	14.762	14.768	-0.006	30	27224	0.2500	0.2696	
170 Dibenz[a,j]acridine	279	14.844	14.850	-0.006	46	29708	0.2500	0.2725	
171 Indeno[1,2,3-cd]pyrene	276	15.130	15.136	-0.006	74	28946	0.2500	0.2441	
172 Dibenz(a,h)anthracene	278	15.183	15.189	-0.006	41	28416	0.2500	0.2268	
173 Benzo[g,h,i]perylene	276	15.603	15.603	0.000	81	30116	0.2500	0.2331	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSS_RV8270_2_00019 Amount Added: 1.00 Units: mL

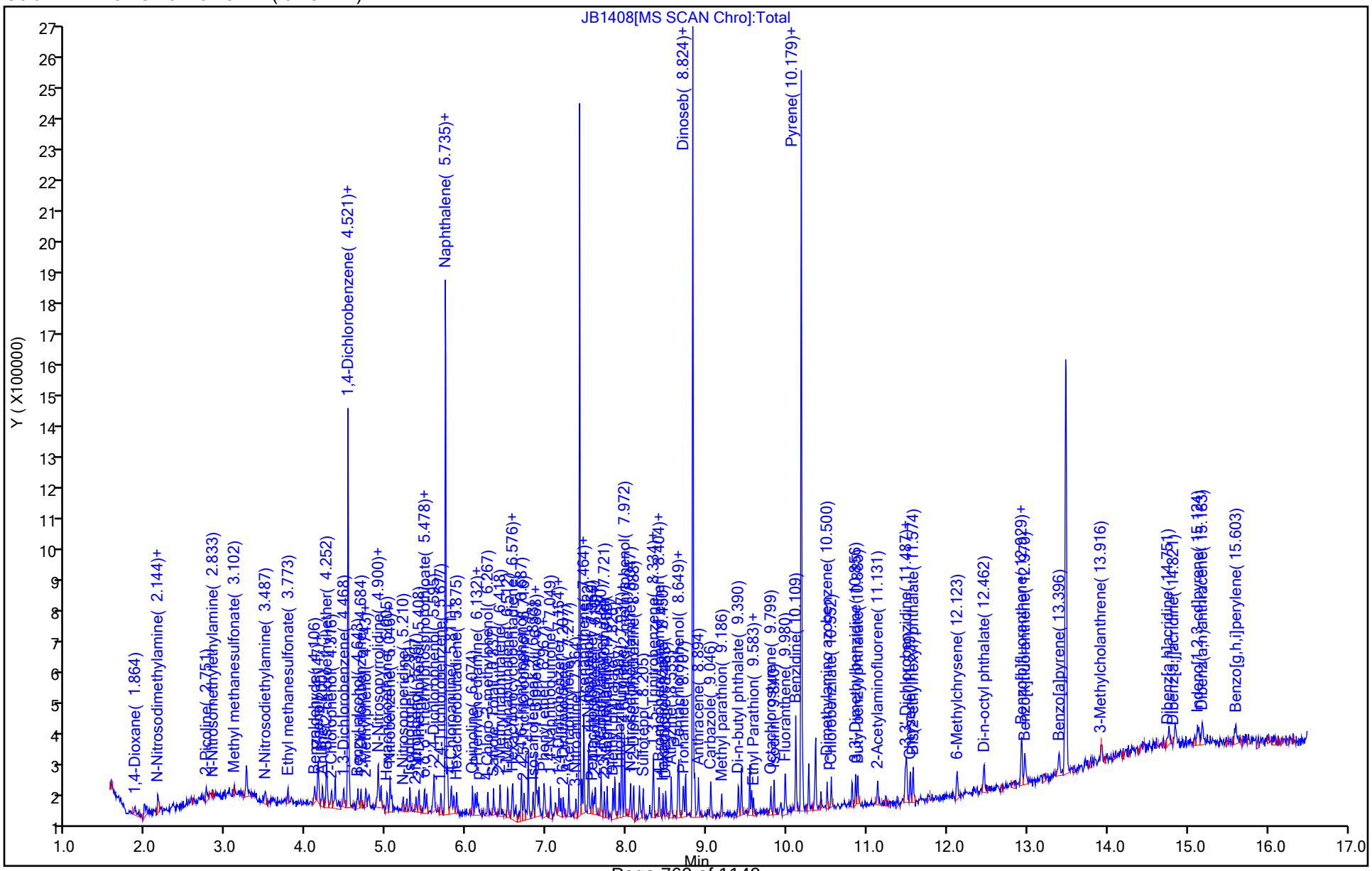
Report Date: 15-Feb-2022 08:32:39 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1408.D

Injection Date:	14-Feb-2022 14:41:30	Instrument ID:	HP23264	Operator ID:	apb10206
Lims ID:	IC L2			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

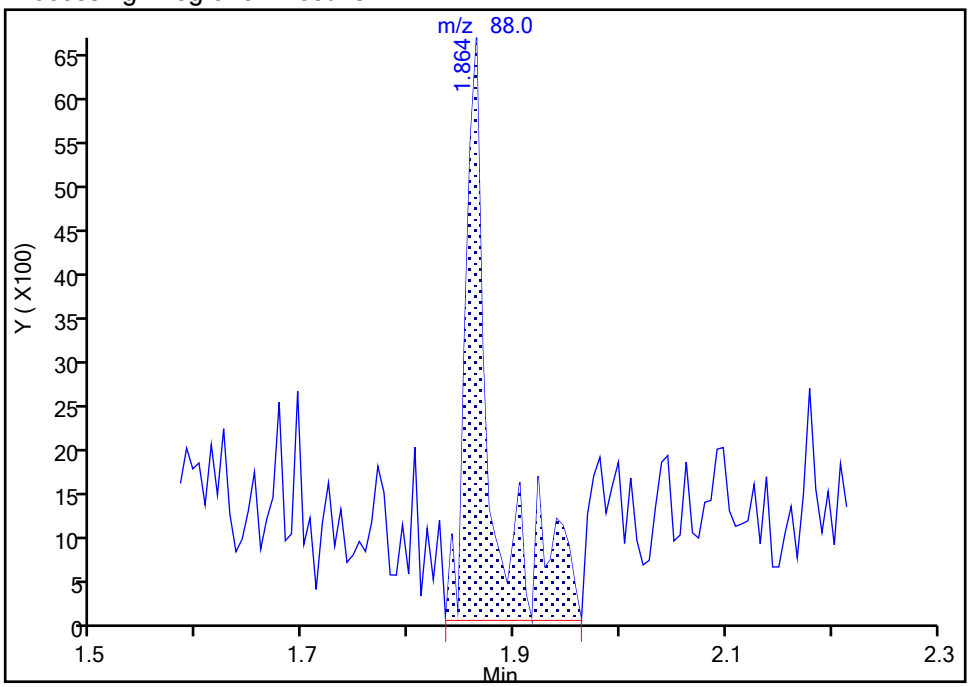
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1408.D
Injection Date: 14-Feb-2022 14:41:30 Instrument ID: HP23264
Lims ID: IC L2
Client ID:
Operator ID: apb10206 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

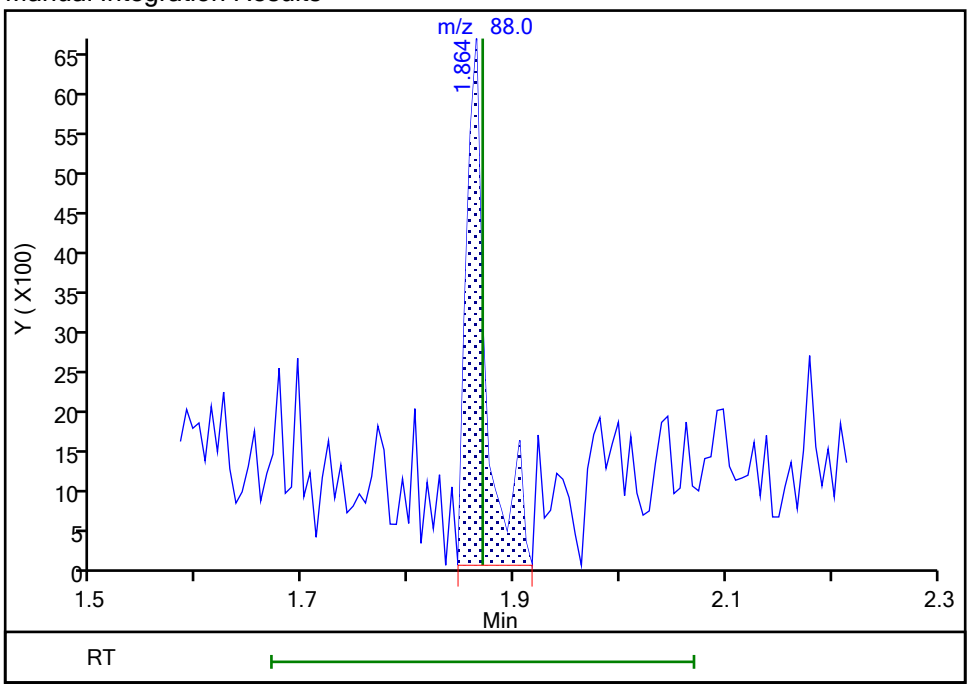
Processing Integration Results

RT: 1.86
Area: 11128
Amount: 0.304992
Amount Units: ug/ml



Manual Integration Results

RT: 1.86
Area: 8541
Amount: 0.372541
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:14:33
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

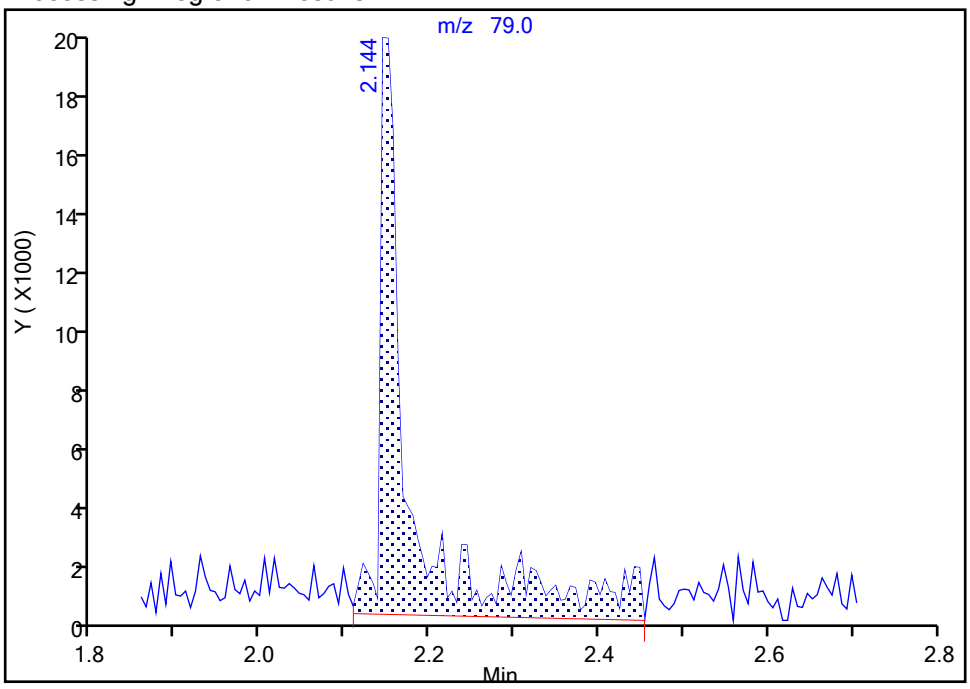
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1408.D
Injection Date: 14-Feb-2022 14:41:30 Instrument ID: HP23264
Lims ID: IC L2
Client ID:
Operator ID: apb10206 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

3 Pyridine, CAS: 110-86-1

Signal: 1

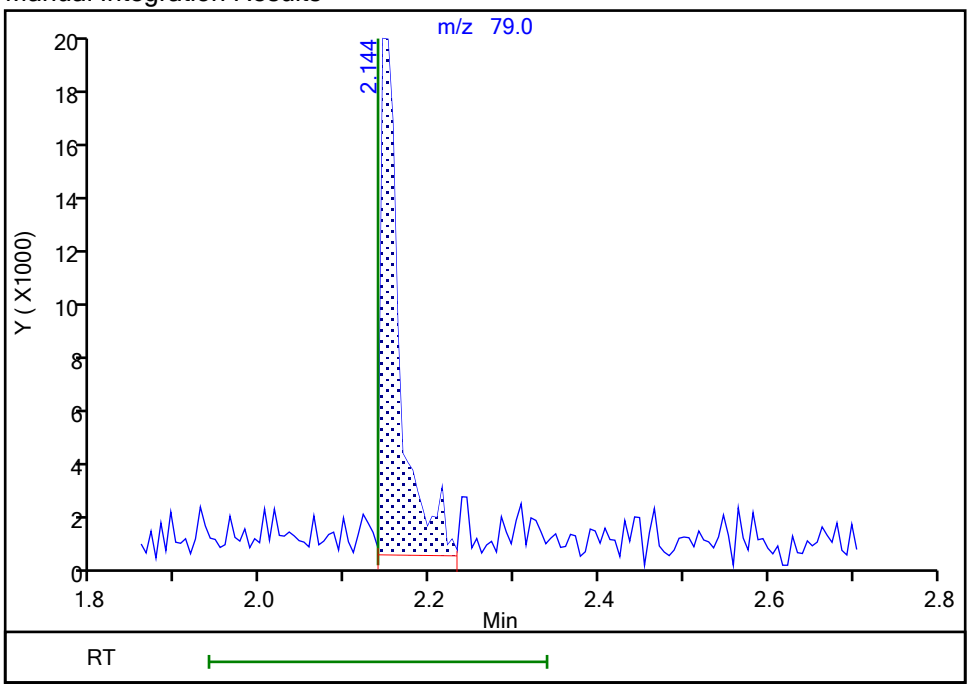
Processing Integration Results

RT: 2.14
Area: 46278
Amount: 0.522368
Amount Units: ug/ml



Manual Integration Results

RT: 2.14
Area: 29376
Amount: 0.460874
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:14:46
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

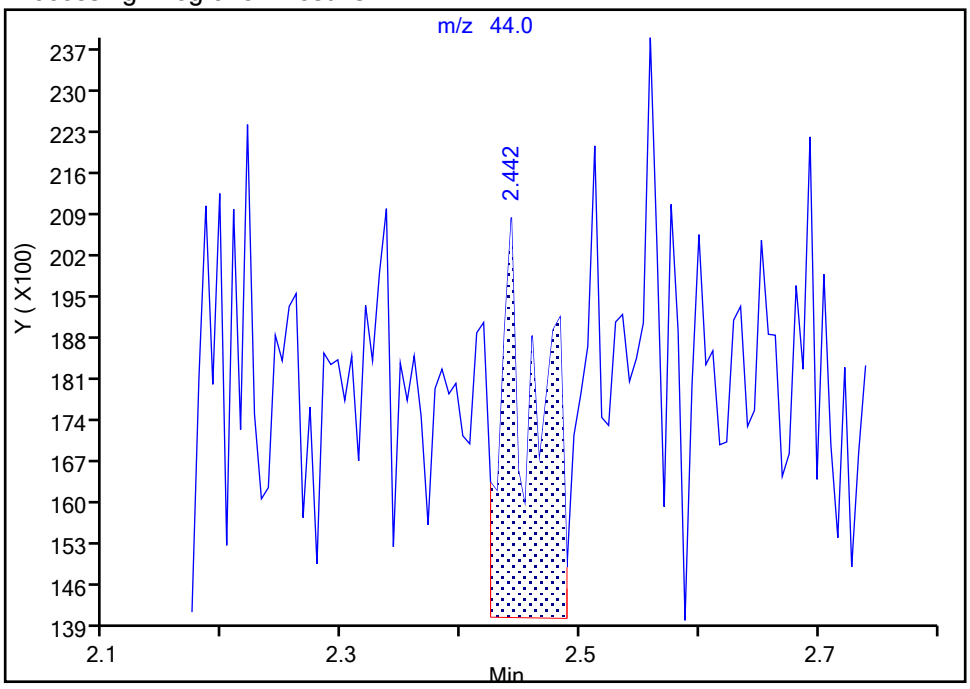
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1408.D
Injection Date: 14-Feb-2022 14:41:30 Instrument ID: HP23264
Lims ID: IC L2
Client ID:
Operator ID: apb10206 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

4 Dimethylformamide, CAS: 68-12-2

Signal: 2

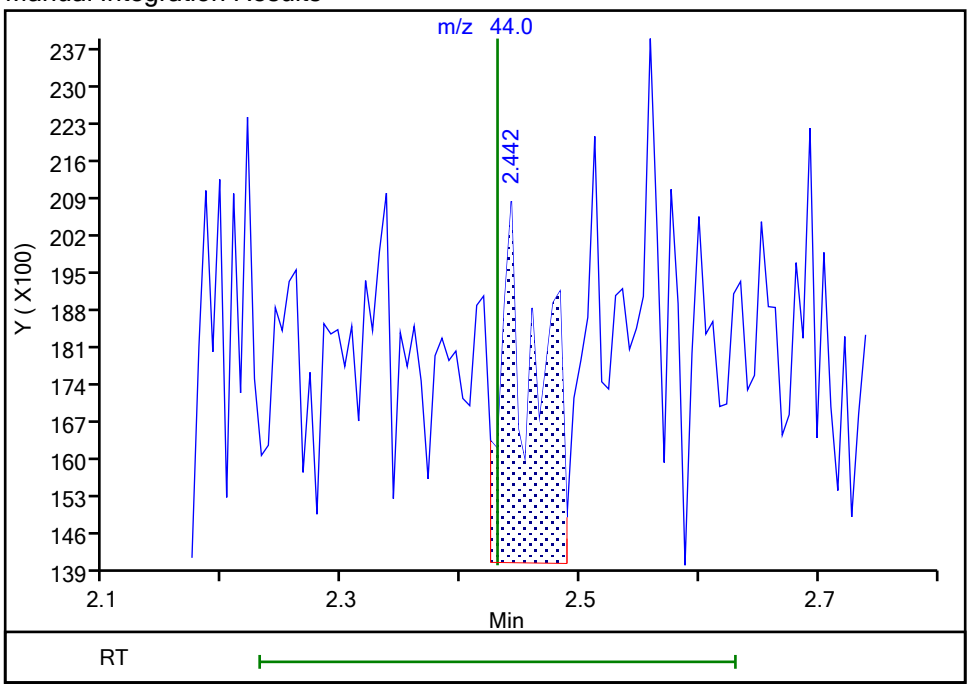
Processing Integration Results

RT: 2.44
Area: 14300
Amount: 0.207605
Amount Units: ug/ml



Manual Integration Results

RT: 2.44
Area: 14300
Amount: 0.079043
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:14:49
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

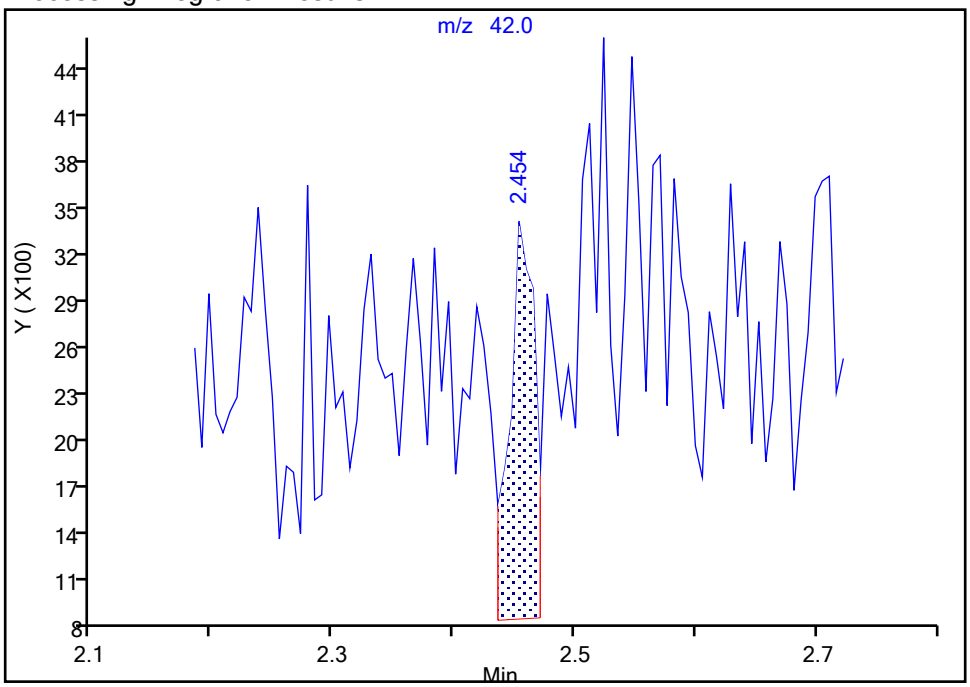
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1408.D
Injection Date: 14-Feb-2022 14:41:30 Instrument ID: HP23264
Lims ID: IC L2
Client ID:
Operator ID: apb10206 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

4 Dimethylformamide, CAS: 68-12-2

Signal: 3

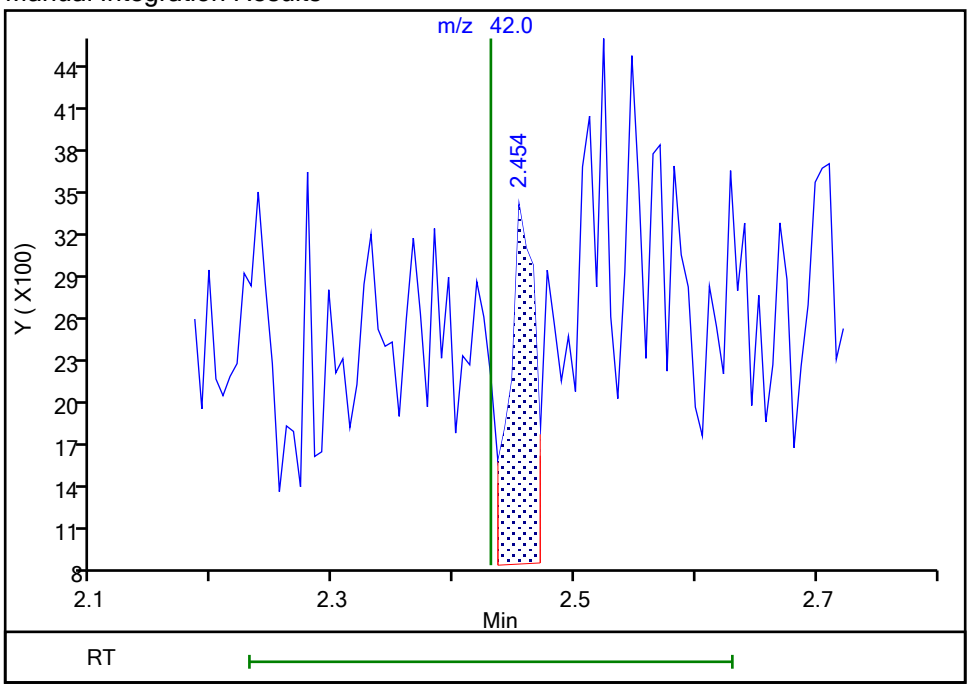
Processing Integration Results

RT: 2.45
Area: 3519
Amount: 0.207605
Amount Units: ug/ml



Manual Integration Results

RT: 2.45
Area: 3519
Amount: 0.079043
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:14:49
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

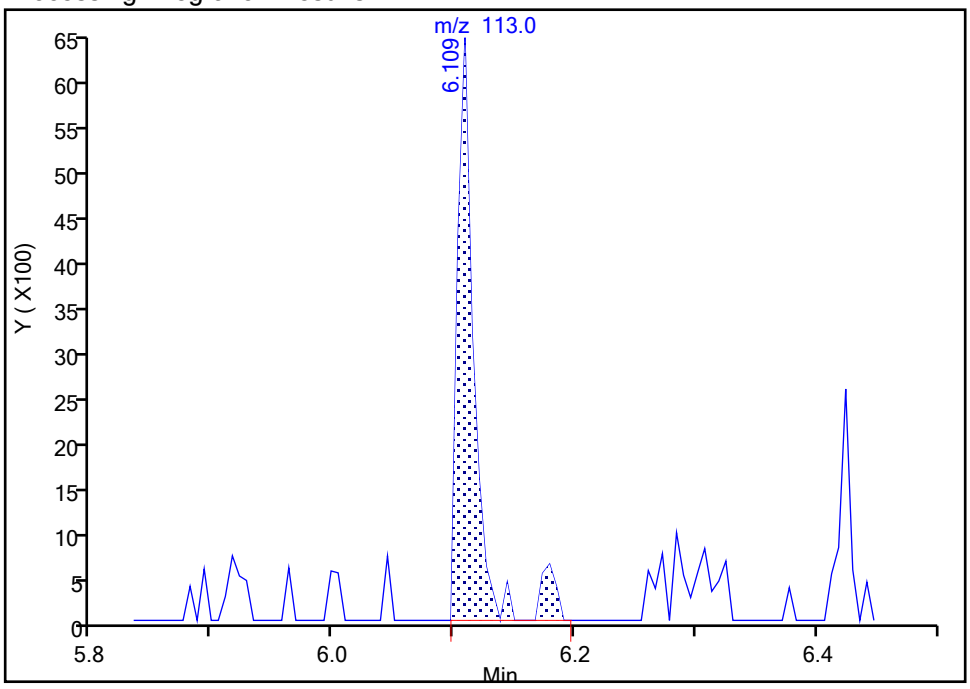
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1408.D
Injection Date: 14-Feb-2022 14:41:30 Instrument ID: HP23264
Lims ID: IC L2
Client ID:
Operator ID: apb10206 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

62 Caprolactam, CAS: 105-60-2

Signal: 1

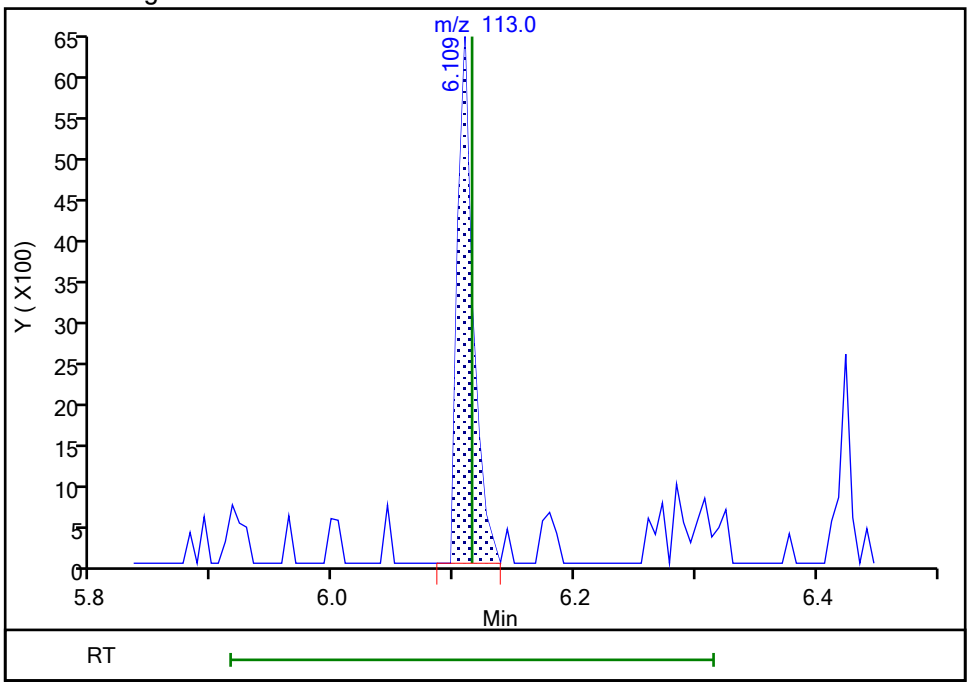
Processing Integration Results

RT: 6.11
Area: 6446
Amount: 0.343214
Amount Units: ug/ml



Manual Integration Results

RT: 6.11
Area: 5765
Amount: 0.353670
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:15:38
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

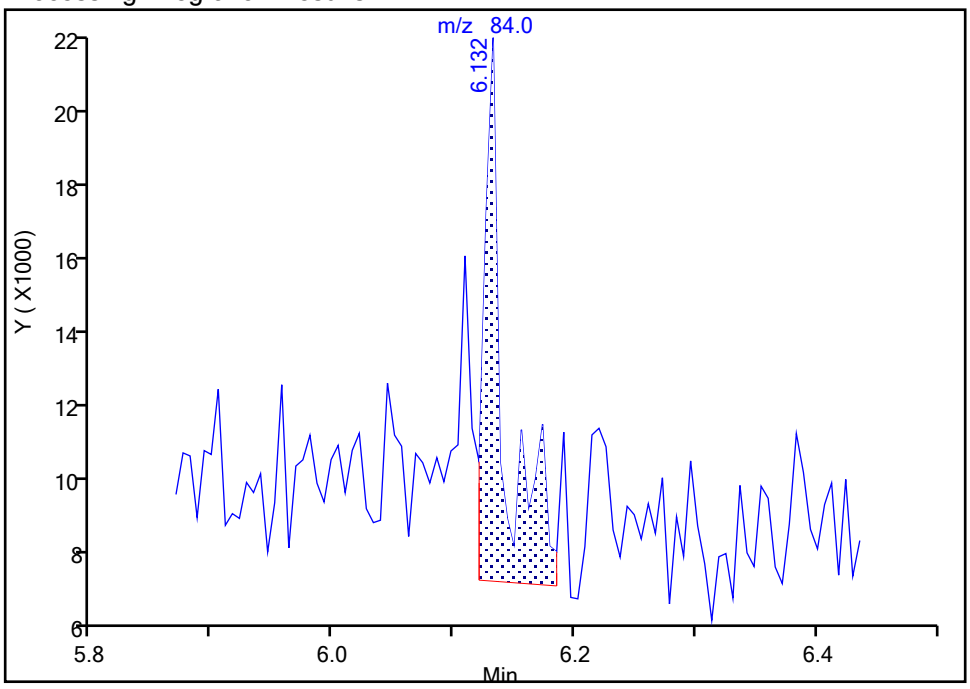
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1408.D
Injection Date: 14-Feb-2022 14:41:30 Instrument ID: HP23264
Lims ID: IC L2
Client ID:
Operator ID: apb10206 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

63 N-Nitrosodi-n-butylamine, CAS: 924-16-3

Signal: 1

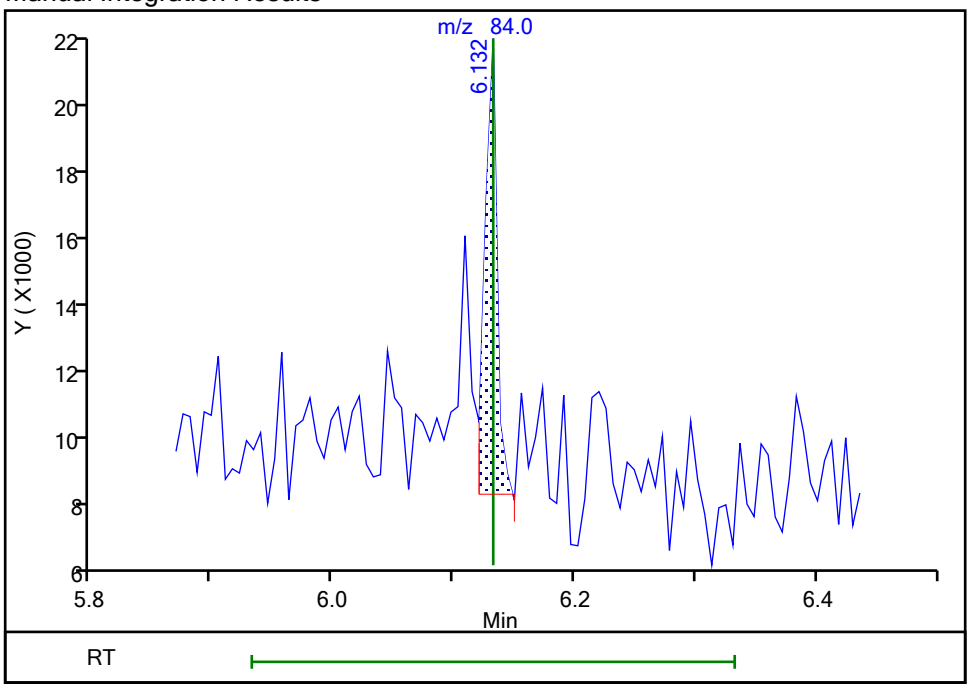
Processing Integration Results

RT: 6.13
Area: 15672
Amount: 0.265835
Amount Units: ug/ml



Manual Integration Results

RT: 6.13
Area: 8776
Amount: 0.156802
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:15:31
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

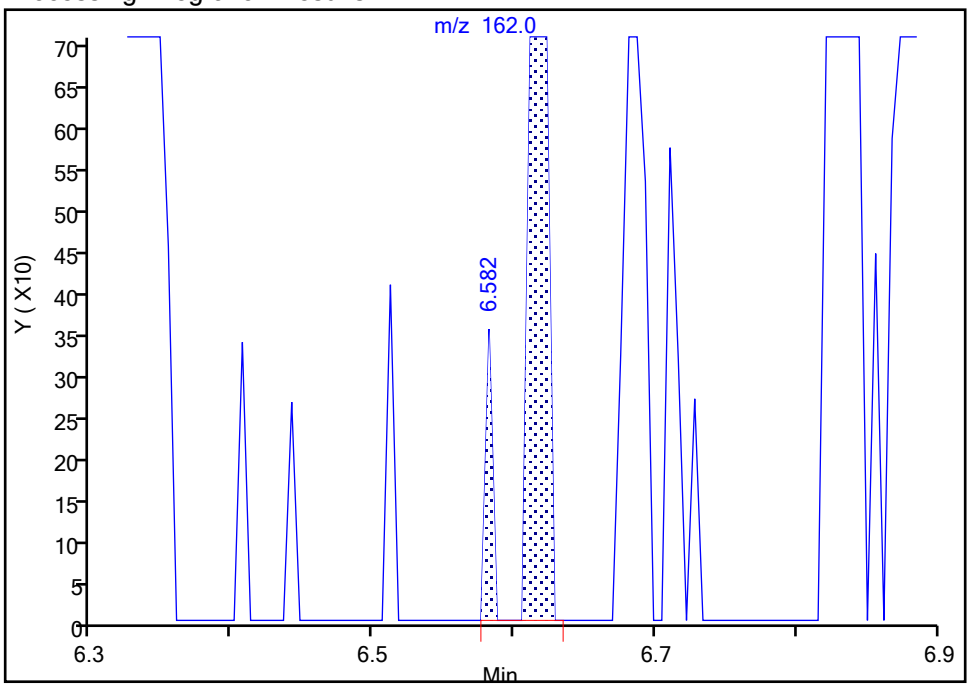
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1408.D
Injection Date: 14-Feb-2022 14:41:30 Instrument ID: HP23264
Lims ID: IC L2
Client ID:
Operator ID: apb10206 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

72 Isosafrole Peak 1, CAS: 120-58-1

Signal: 1

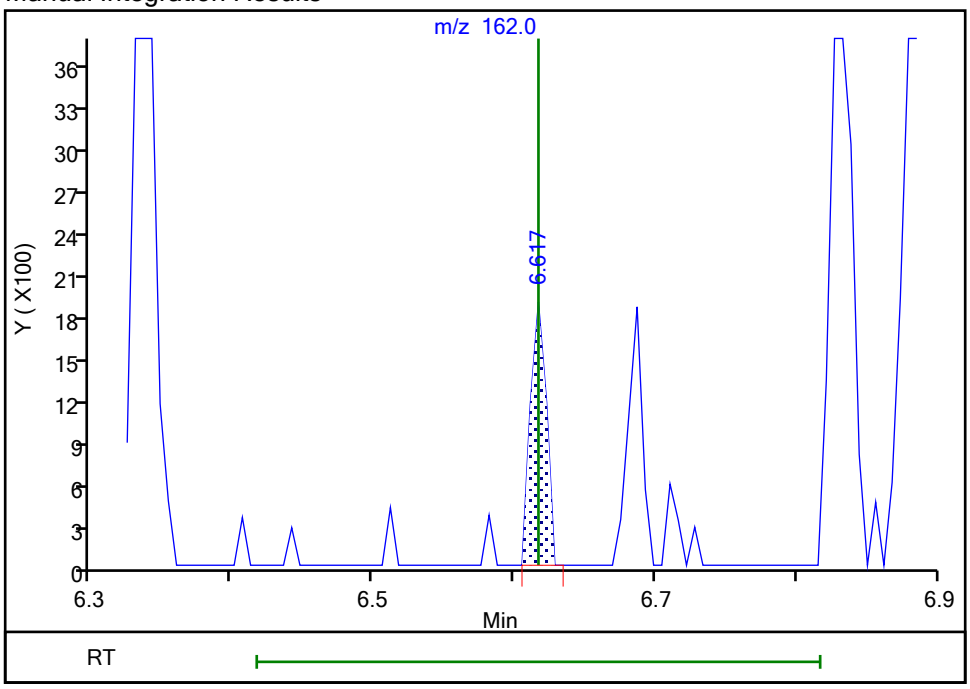
Processing Integration Results

RT: 6.58
Area: 1580
Amount: 0.046769
Amount Units: ug/ml



Manual Integration Results

RT: 6.62
Area: 1456
Amount: 0.035820
Amount Units: ug/ml



Reviewer: bauera, 14-Feb-2022 15:15:57
Audit Action: Manually Integrated Audit Reason: Baseline

Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

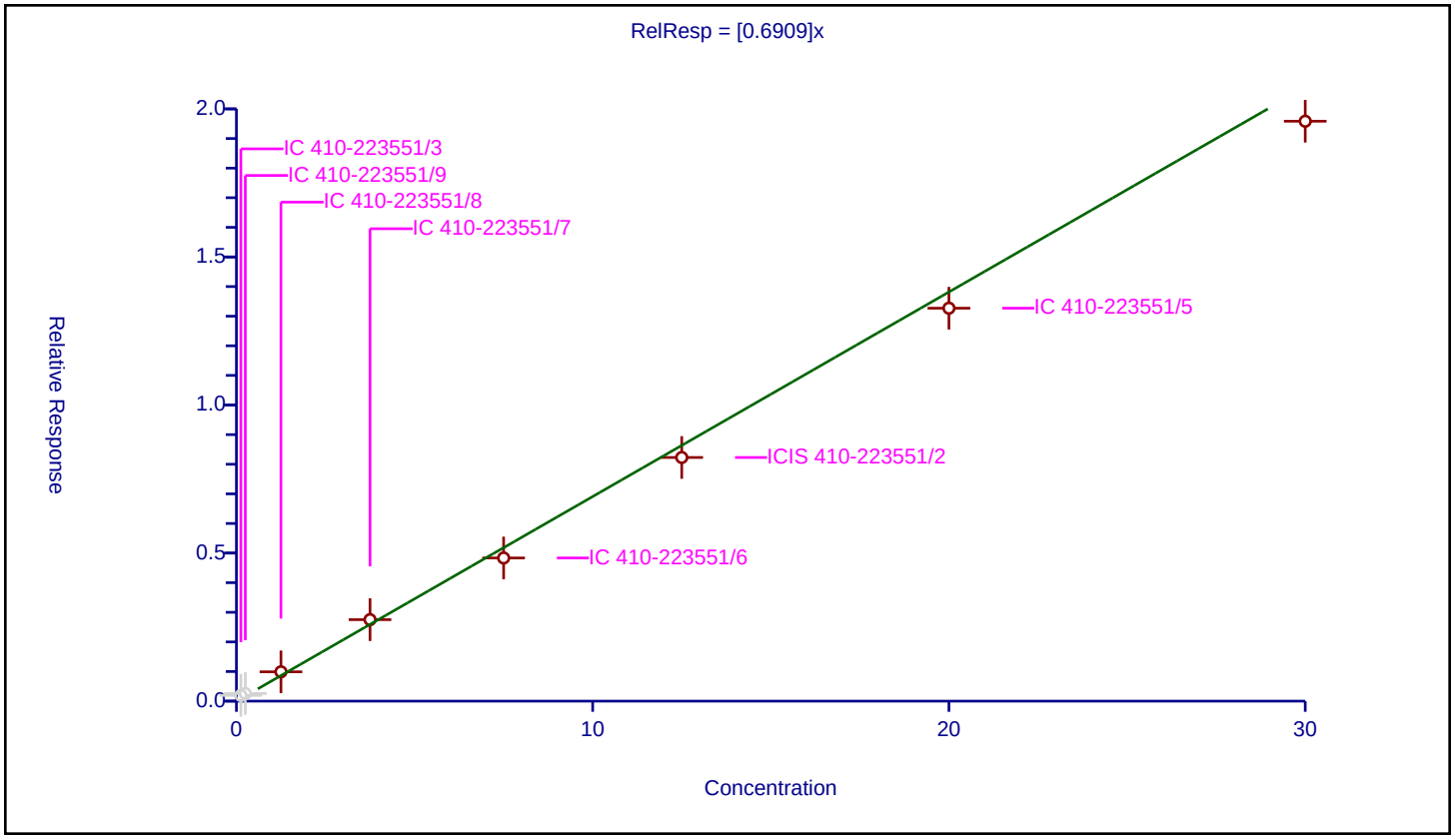
Curve Coefficients

Intercept:	0
Slope:	0.6909

Error Coefficients

Standard Error:	435000
Relative Standard Error:	8.6
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.193831	5.0	161636.0	1.550645	N
2	IC 410-223551/9	0.25	0.257372	5.0	165927.0	1.029489	N
3	IC 410-223551/8	1.25	0.990196	5.0	166770.0	0.792157	Y
4	IC 410-223551/7	3.75	2.751953	5.0	161062.0	0.733854	Y
5	IC 410-223551/6	7.5	4.834492	5.0	226877.0	0.644599	Y
6	ICIS 410-223551/2	12.5	8.228204	5.0	198914.0	0.658256	Y
7	IC 410-223551/5	20.0	13.270035	5.0	177203.0	0.663502	Y
8	IC 410-223551/4	30.0	19.583224	5.0	191146.0	0.652774	Y



Calibration / N-Nitrosodimethylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

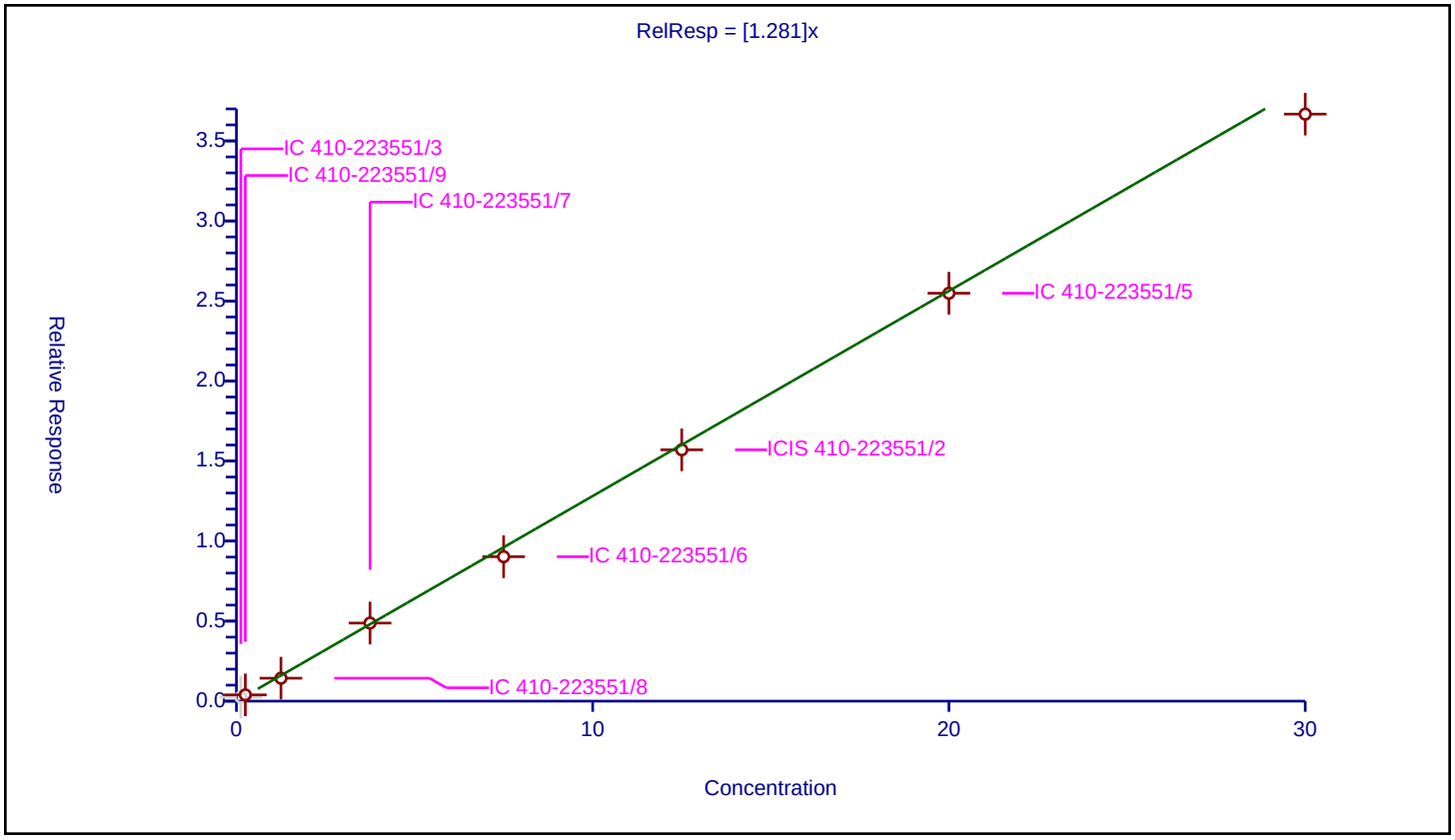
Curve Coefficients

Intercept:	0
Slope:	1.281

Error Coefficients

Standard Error:	749000
Relative Standard Error:	10.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.248552	5.0	161636.0	1.988418	N
2	IC 410-223551/9	0.25	0.391588	5.0	165927.0	1.566351	Y
3	IC 410-223551/8	1.25	1.432872	5.0	166770.0	1.146297	Y
4	IC 410-223551/7	3.75	4.878556	5.0	161062.0	1.300948	Y
5	IC 410-223551/6	7.5	9.023347	5.0	226877.0	1.203113	Y
6	ICIS 410-223551/2	12.5	15.700956	5.0	198914.0	1.256076	Y
7	IC 410-223551/5	20.0	25.483316	5.0	177203.0	1.274166	Y
8	IC 410-223551/4	30.0	36.674035	5.0	191146.0	1.222468	Y



Calibration / Pyridine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

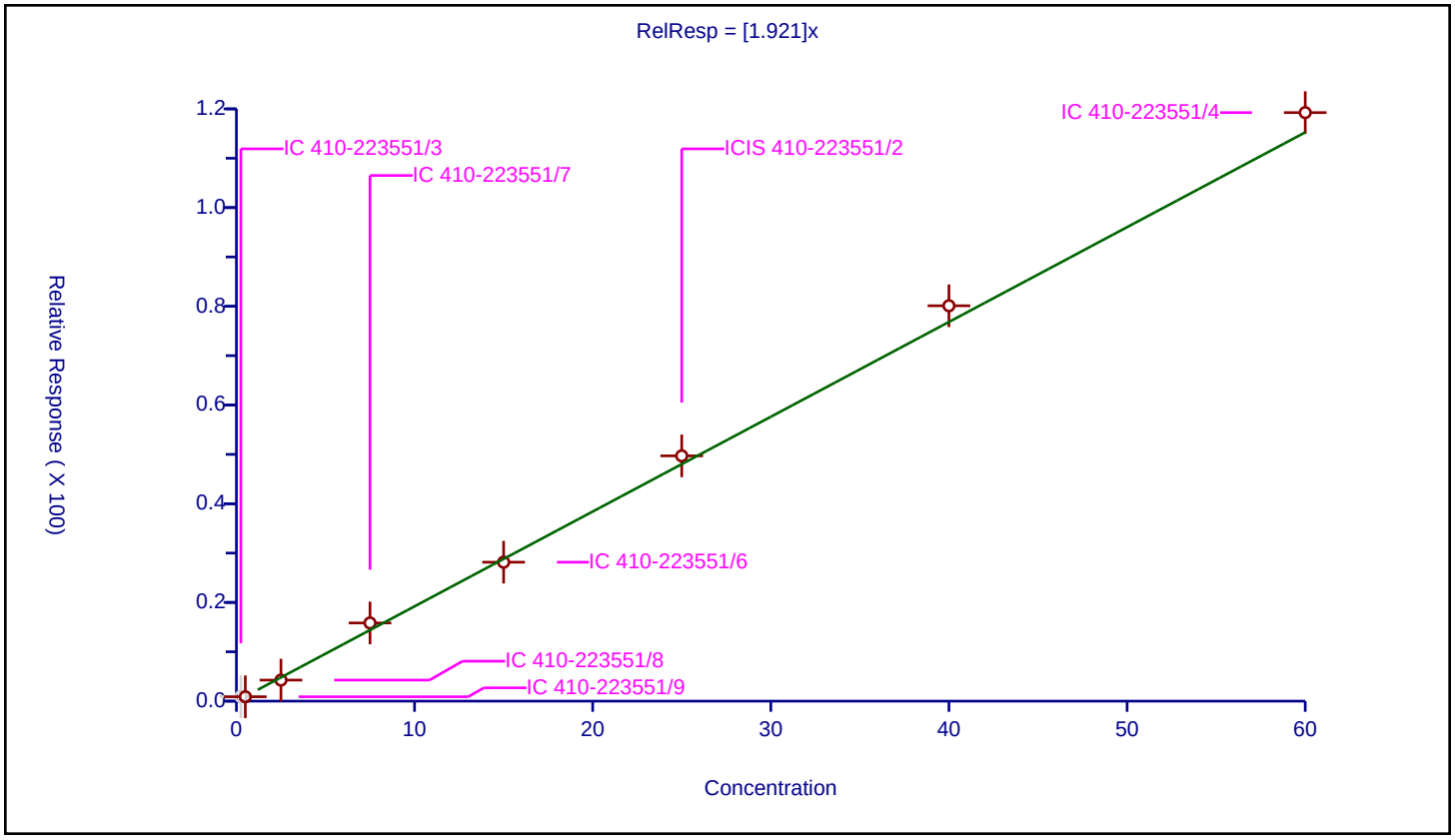
Curve Coefficients

Intercept:	0
Slope:	1.921

Error Coefficients

Standard Error:	2400000
Relative Standard Error:	7.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.25	0.932589	5.0	161636.0	3.730357	N
2	IC 410-223551/9	0.5	0.885209	5.0	165927.0	1.770417	Y
3	IC 410-223551/8	2.5	4.268484	5.0	166770.0	1.707393	Y
4	IC 410-223551/7	7.5	15.842657	5.0	161062.0	2.112354	Y
5	IC 410-223551/6	15.0	28.149614	5.0	226877.0	1.876641	Y
6	ICIS 410-223551/2	25.0	49.701127	5.0	198914.0	1.988045	Y
7	IC 410-223551/5	40.0	80.109789	5.0	177203.0	2.002745	Y
8	IC 410-223551/4	60.0	119.246231	5.0	191146.0	1.987437	Y



Calibration / Dimethylformamide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

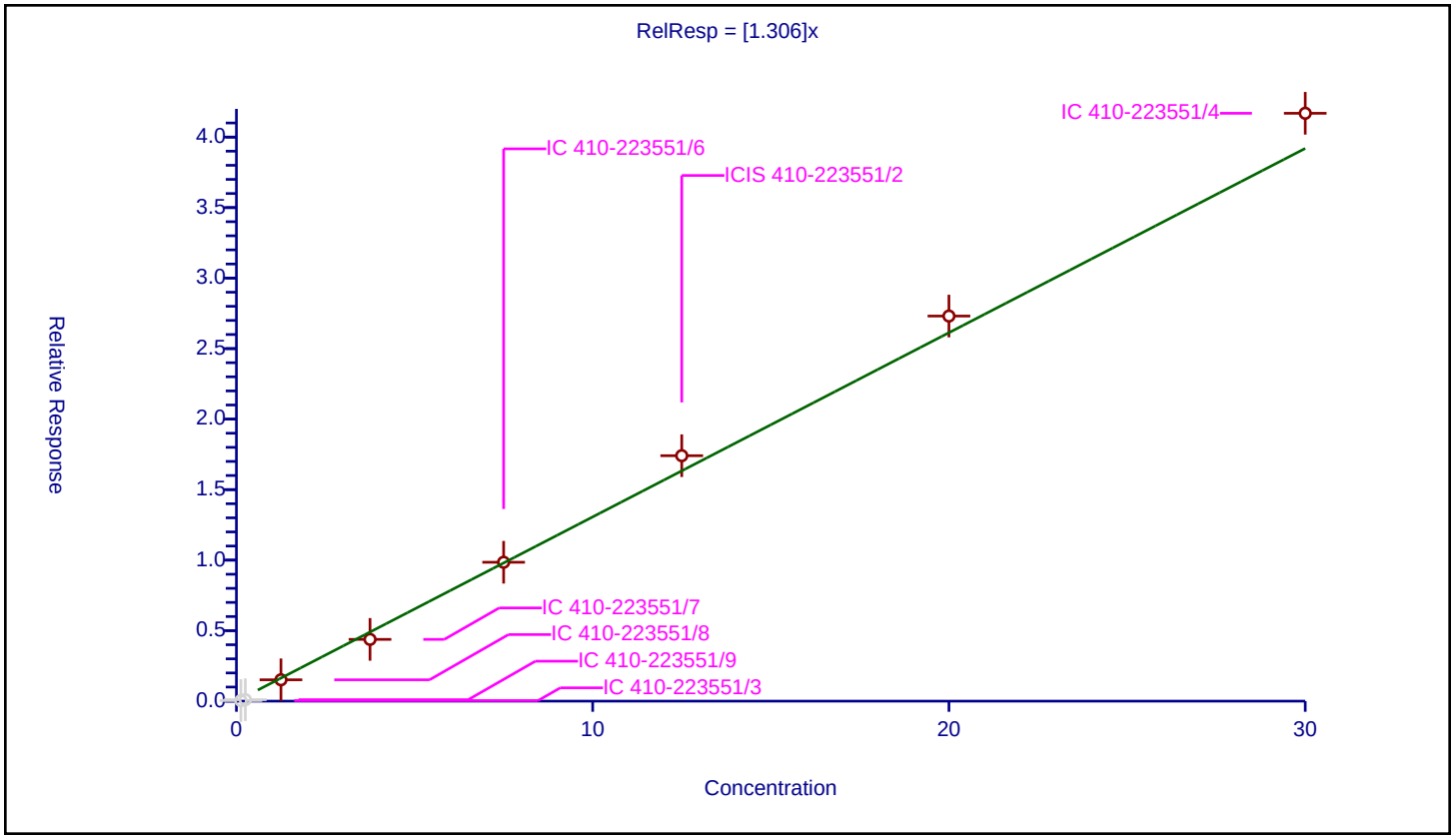
Curve Coefficients

Intercept:	0
Slope:	1.306

Error Coefficients

Standard Error:	914000
Relative Standard Error:	7.4
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.04009	5.0	161636.0	0.320721	N
2	IC 410-223551/9	0.25	0.103268	5.0	165927.0	0.413073	N
3	IC 410-223551/8	1.25	1.513012	5.0	166770.0	1.21041	Y
4	IC 410-223551/7	3.75	4.379276	5.0	161062.0	1.167807	Y
5	IC 410-223551/6	7.5	9.848795	5.0	226877.0	1.313173	Y
6	ICIS 410-223551/2	12.5	17.406945	5.0	198914.0	1.392556	Y
7	IC 410-223551/5	20.0	27.308172	5.0	177203.0	1.365409	Y
8	IC 410-223551/4	30.0	41.687532	5.0	191146.0	1.389584	Y



Calibration / 2-Picoline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

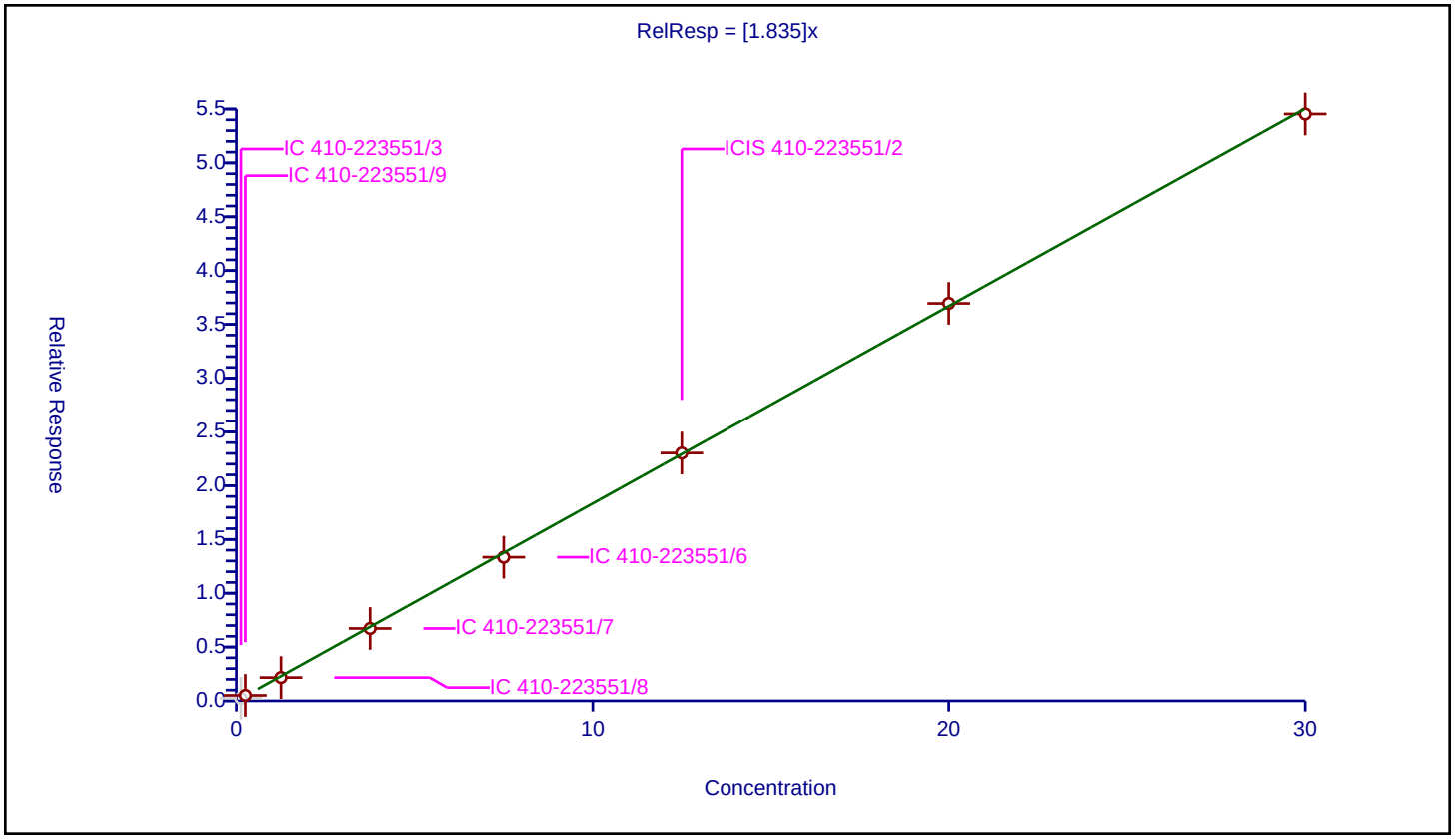
Curve Coefficients

Intercept:	0
Slope:	1.835

Error Coefficients

Standard Error:	1100000
Relative Standard Error:	5.2
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.242891	5.0	161636.0	1.943131	N
2	IC 410-223551/9	0.25	0.507693	5.0	165927.0	2.030773	Y
3	IC 410-223551/8	1.25	2.164598	5.0	166770.0	1.731678	Y
4	IC 410-223551/7	3.75	6.726168	5.0	161062.0	1.793645	Y
5	IC 410-223551/6	7.5	13.346858	5.0	226877.0	1.779581	Y
6	ICIS 410-223551/2	12.5	23.033849	5.0	198914.0	1.842708	Y
7	IC 410-223551/5	20.0	36.95355	5.0	177203.0	1.847678	Y
8	IC 410-223551/4	30.0	54.539959	5.0	191146.0	1.817999	Y



Calibration / N-Nitrosomethylethylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

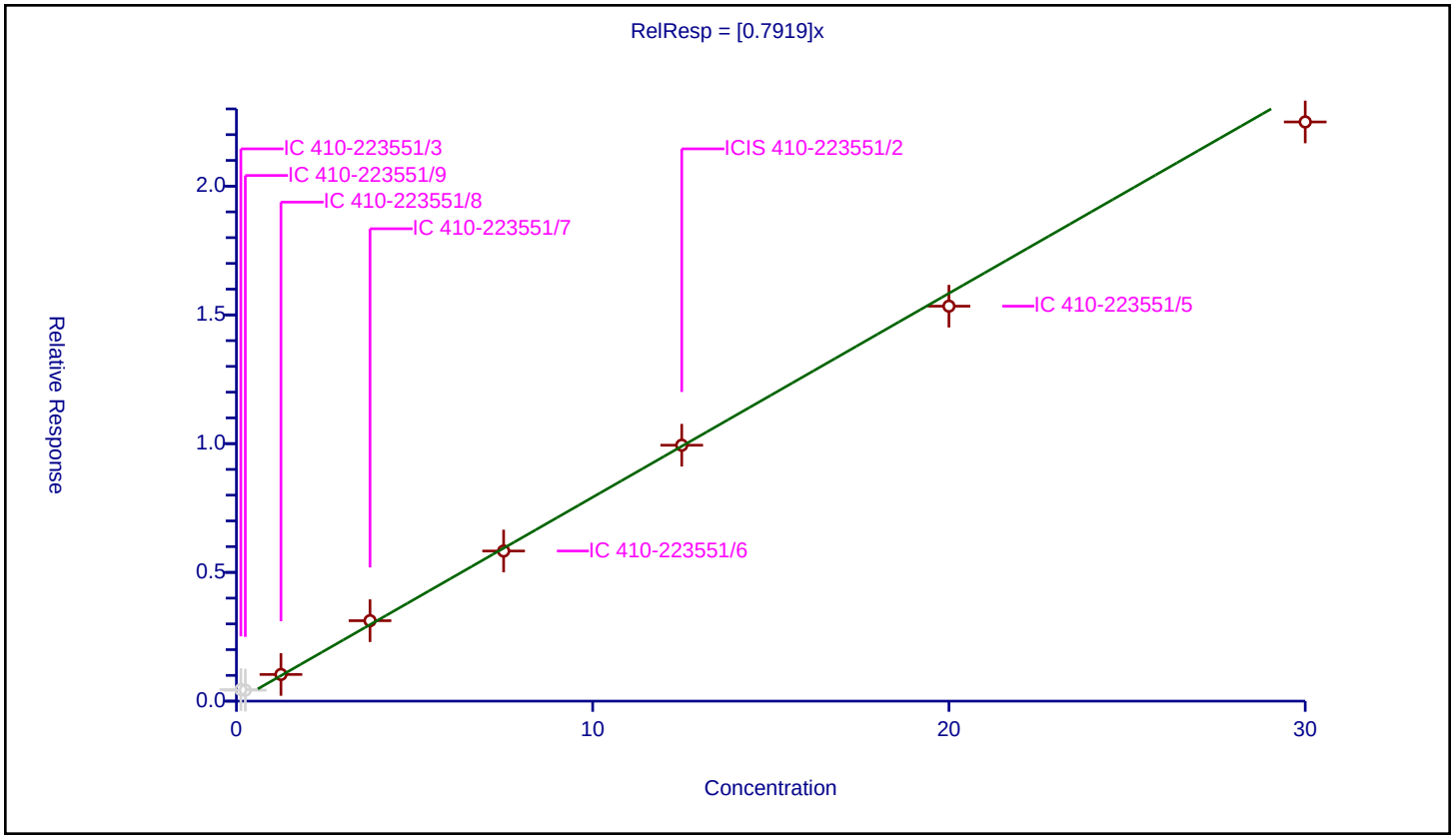
Curve Coefficients

Intercept:	0
Slope:	0.7919

Error Coefficients

Standard Error:	504000
Relative Standard Error:	4.3
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.44727	5.0	161636.0	3.578163	N
2	IC 410-223551/9	0.25	0.425217	5.0	165927.0	1.700868	N
3	IC 410-223551/8	1.25	1.036128	5.0	166770.0	0.828902	Y
4	IC 410-223551/7	3.75	3.124697	5.0	161062.0	0.833253	Y
5	IC 410-223551/6	7.5	5.829877	5.0	226877.0	0.777317	Y
6	ICIS 410-223551/2	12.5	9.939069	5.0	198914.0	0.795126	Y
7	IC 410-223551/5	20.0	15.3382	5.0	177203.0	0.76691	Y
8	IC 410-223551/4	30.0	22.493304	5.0	191146.0	0.749777	Y



Calibration / Methyl methanesulfonate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

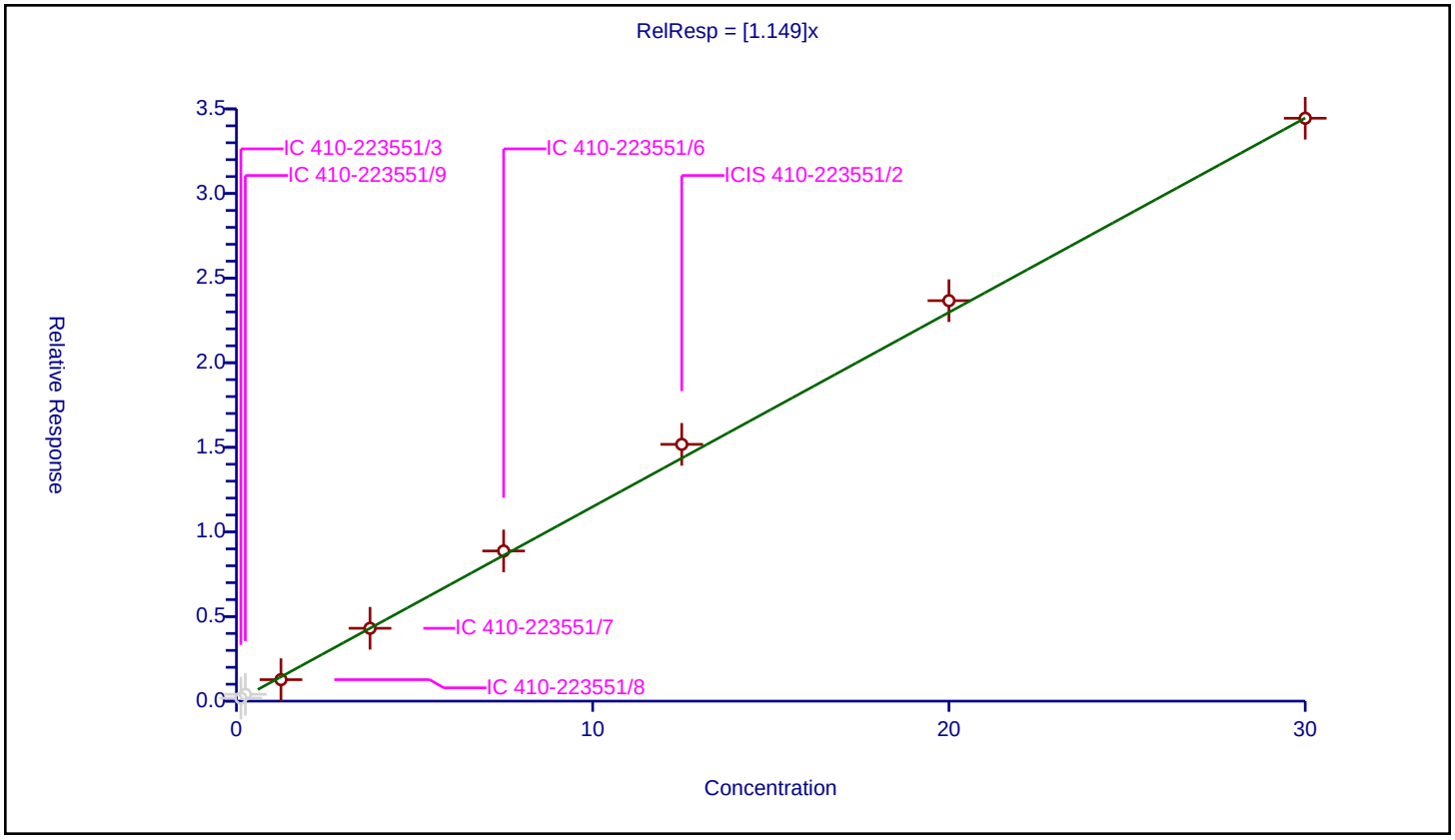
Curve Coefficients

Intercept:	0
Slope:	1.149

Error Coefficients

Standard Error:	773000
Relative Standard Error:	6.1
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.178549	5.0	161636.0	1.428395	N
2	IC 410-223551/9	0.25	0.405028	5.0	165927.0	1.62011	N
3	IC 410-223551/8	1.25	1.268873	5.0	166770.0	1.015099	Y
4	IC 410-223551/7	3.75	4.305143	5.0	161062.0	1.148038	Y
5	IC 410-223551/6	7.5	8.875602	5.0	226877.0	1.183414	Y
6	ICIS 410-223551/2	12.5	15.175126	5.0	198914.0	1.21401	Y
7	IC 410-223551/5	20.0	23.667658	5.0	177203.0	1.183383	Y
8	IC 410-223551/4	30.0	34.449243	5.0	191146.0	1.148308	Y



Calibration / 2-Fluorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

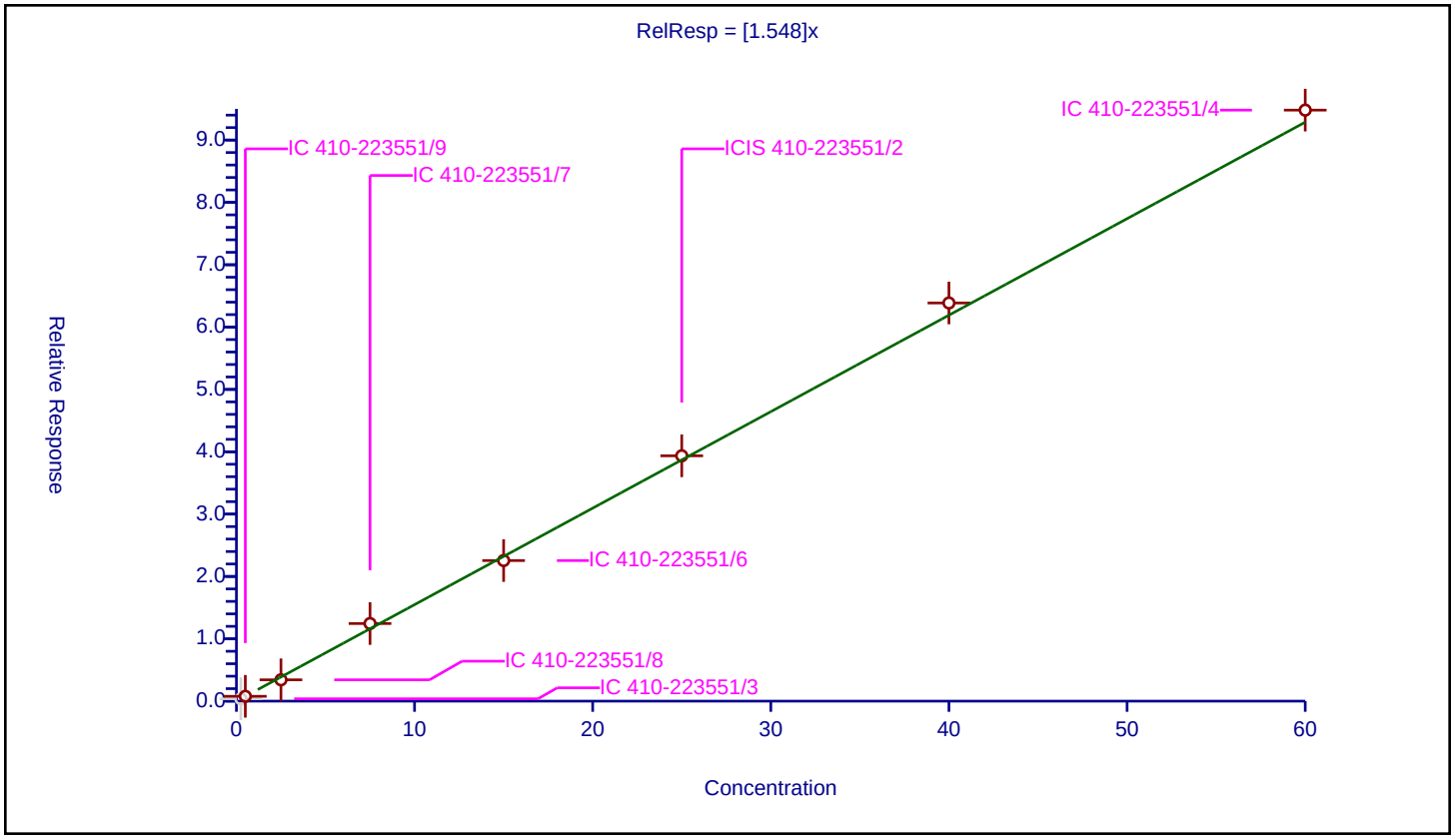
Curve Coefficients

Intercept:	0
Slope:	1.548

Error Coefficients

Standard Error:	1910000
Relative Standard Error:	5.9
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.25	0.37736	5.0	161636.0	1.509441	N
2	IC 410-223551/9	0.5	0.775763	5.0	165927.0	1.551526	Y
3	IC 410-223551/8	2.5	3.421838	5.0	166770.0	1.368735	Y
4	IC 410-223551/7	7.5	12.448715	5.0	161062.0	1.659829	Y
5	IC 410-223551/6	15.0	22.552022	5.0	226877.0	1.503468	Y
6	ICIS 410-223551/2	25.0	39.355023	5.0	198914.0	1.574201	Y
7	IC 410-223551/5	40.0	63.868388	5.0	177203.0	1.59671	Y
8	IC 410-223551/4	60.0	94.80371	5.0	191146.0	1.580062	Y



Calibration / N-Nitrosodiethylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

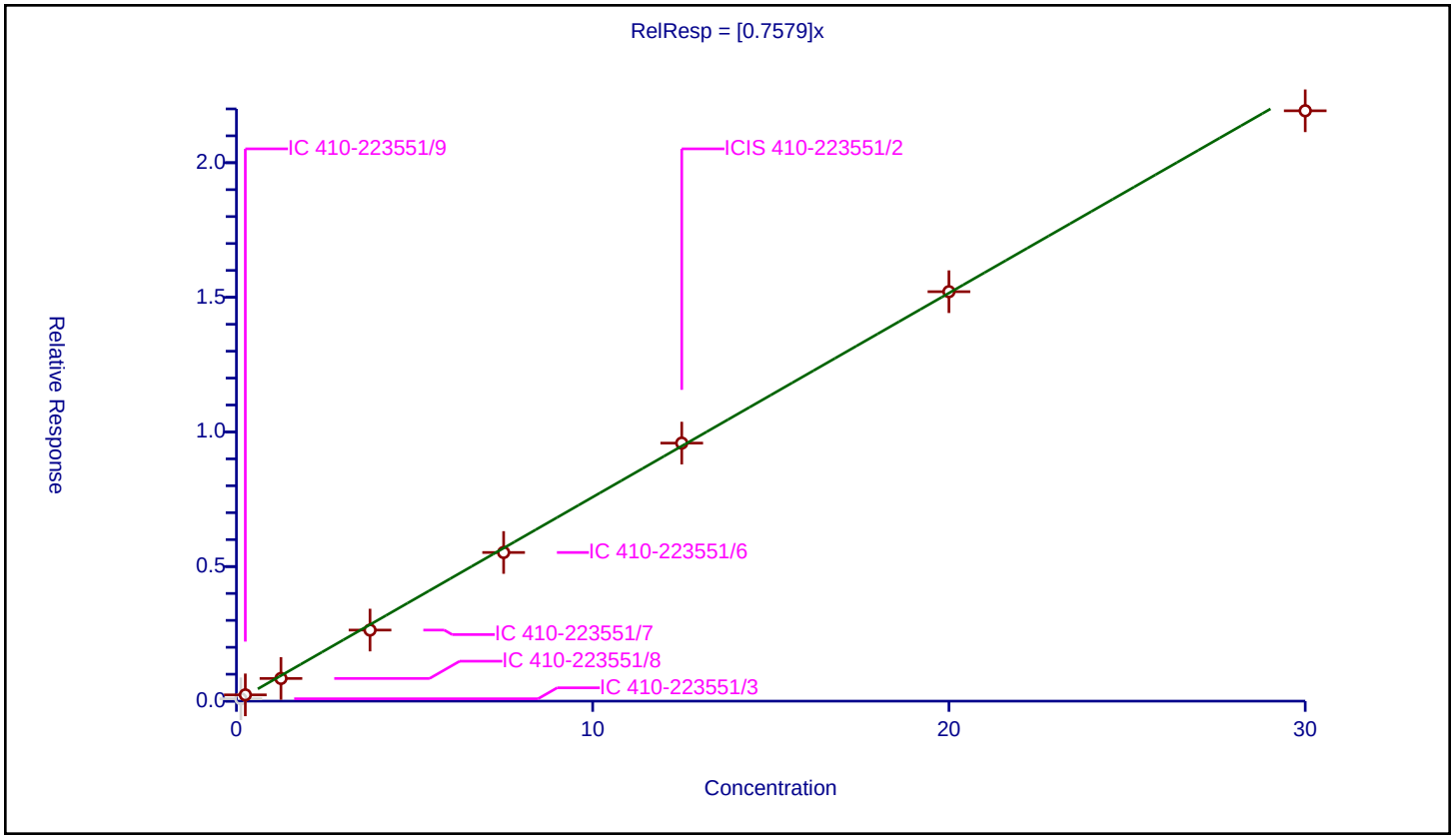
Curve Coefficients

Intercept:	0
Slope:	0.7579

Error Coefficients

Standard Error:	449000
Relative Standard Error:	11.0
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.088316	5.0	161636.0	0.706526	N
2	IC 410-223551/9	0.25	0.233235	5.0	165927.0	0.93294	Y
3	IC 410-223551/8	1.25	0.842628	5.0	166770.0	0.674102	Y
4	IC 410-223551/7	3.75	2.639884	5.0	161062.0	0.703969	Y
5	IC 410-223551/6	7.5	5.522001	5.0	226877.0	0.736267	Y
6	ICIS 410-223551/2	12.5	9.585927	5.0	198914.0	0.766874	Y
7	IC 410-223551/5	20.0	15.209731	5.0	177203.0	0.760487	Y
8	IC 410-223551/4	30.0	21.930226	5.0	191146.0	0.731008	Y



Calibration / Ethyl methanesulfonate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

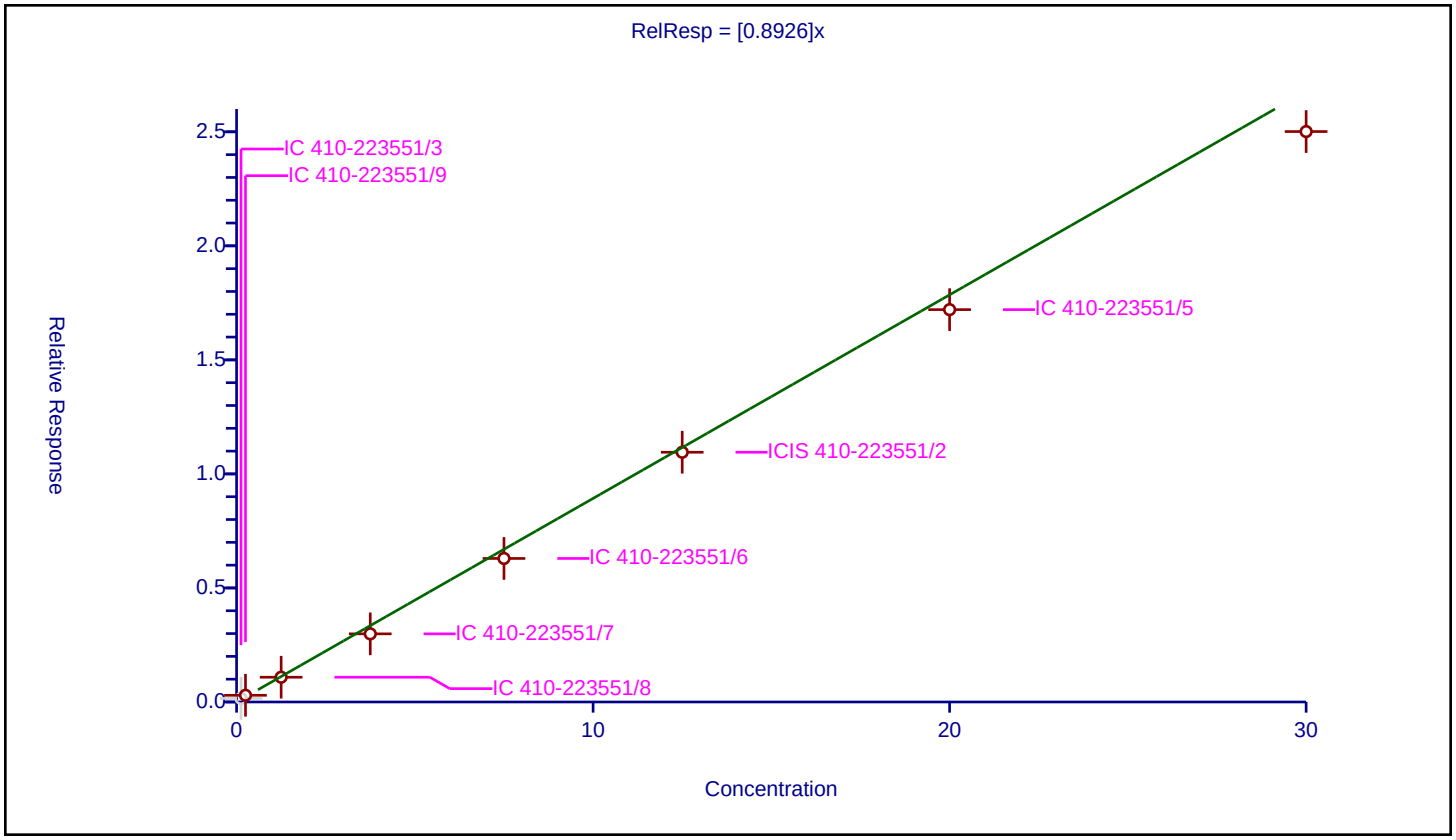
Curve Coefficients

Intercept:	0
Slope:	0.8926

Error Coefficients

Standard Error:	511000
Relative Standard Error:	14.2
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.15637	5.0	161636.0	1.250959	N
2	IC 410-223551/9	0.25	0.293533	5.0	165927.0	1.174131	Y
3	IC 410-223551/8	1.25	1.085687	5.0	166770.0	0.868549	Y
4	IC 410-223551/7	3.75	2.987514	5.0	161062.0	0.79667	Y
5	IC 410-223551/6	7.5	6.293961	5.0	226877.0	0.839195	Y
6	ICIS 410-223551/2	12.5	10.950285	5.0	198914.0	0.876023	Y
7	IC 410-223551/5	20.0	17.20349	5.0	177203.0	0.860174	Y
8	IC 410-223551/4	30.0	25.011745	5.0	191146.0	0.833725	Y



Calibration / Benzaldehyde

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

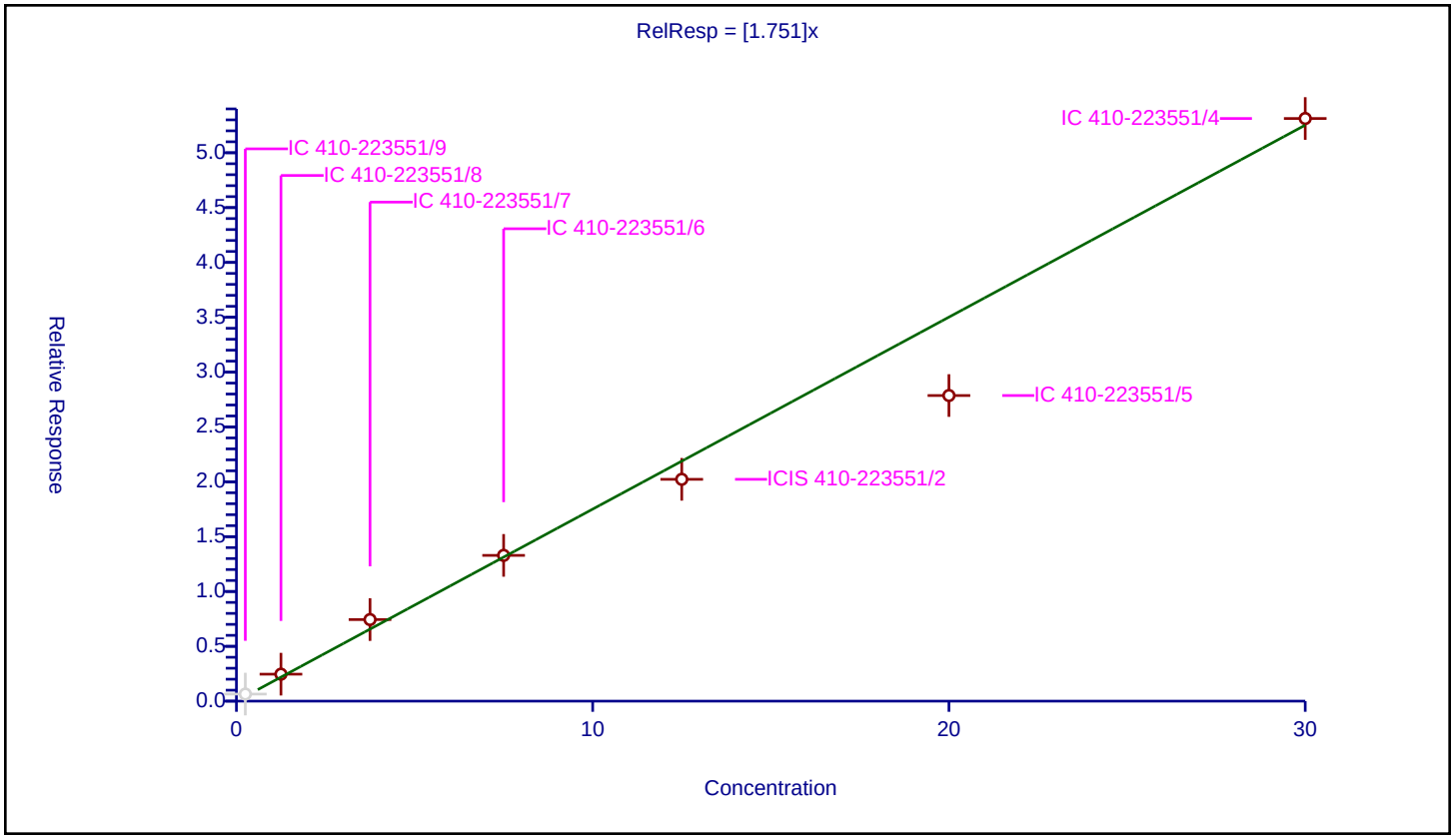
Curve Coefficients

Intercept:	0
Slope:	1.751

Error Coefficients

Standard Error:	1110000
Relative Standard Error:	12.7
Correlation Coefficient:	0.954
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/9	0.25	0.645495	5.0	165927.0	2.581979	N
2	IC 410-223551/8	1.25	2.458356	5.0	166770.0	1.966685	Y
3	IC 410-223551/7	3.75	7.43754	5.0	161062.0	1.983344	Y
4	IC 410-223551/6	7.5	13.28969	5.0	226877.0	1.771959	Y
5	ICIS 410-223551/2	12.5	20.225977	5.0	198914.0	1.618078	Y
6	IC 410-223551/5	20.0	27.865301	5.0	177203.0	1.393265	Y
7	IC 410-223551/4	30.0	53.123947	5.0	191146.0	1.770798	Y



Calibration / Phenol-d5

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

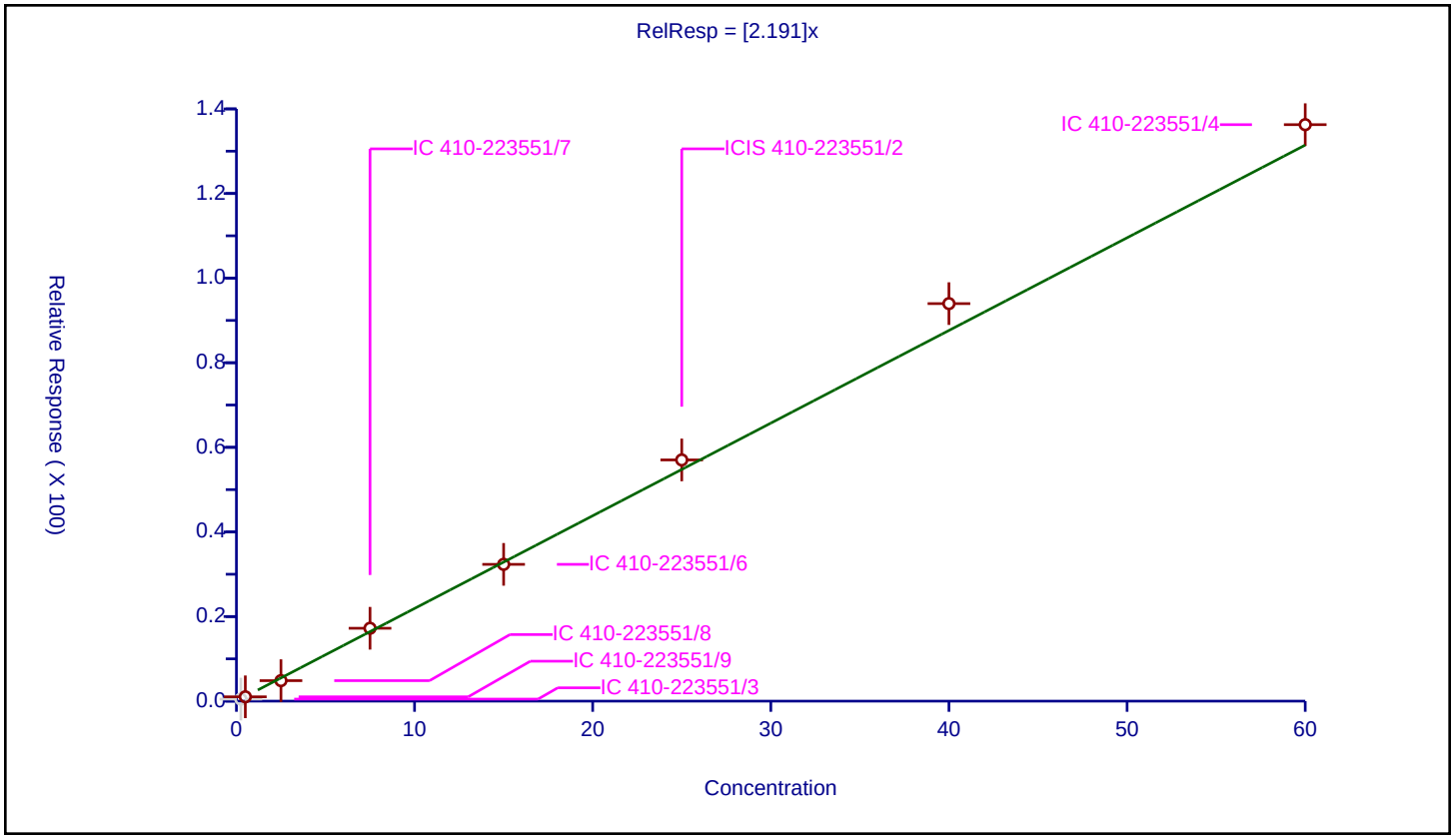
Curve Coefficients

Intercept:	0
Slope:	2.191

Error Coefficients

Standard Error:	2760000
Relative Standard Error:	6.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.25	0.484453	5.0	161636.0	1.937811	N
2	IC 410-223551/9	0.5	1.021775	5.0	165927.0	2.043549	Y
3	IC 410-223551/8	2.5	4.841698	5.0	166770.0	1.936679	Y
4	IC 410-223551/7	7.5	17.231563	5.0	161062.0	2.297542	Y
5	IC 410-223551/6	15.0	32.335561	5.0	226877.0	2.155704	Y
6	ICIS 410-223551/2	25.0	57.020823	5.0	198914.0	2.280833	Y
7	IC 410-223551/5	40.0	93.970108	5.0	177203.0	2.349253	Y
8	IC 410-223551/4	60.0	136.271489	5.0	191146.0	2.271191	Y



Calibration / Phenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

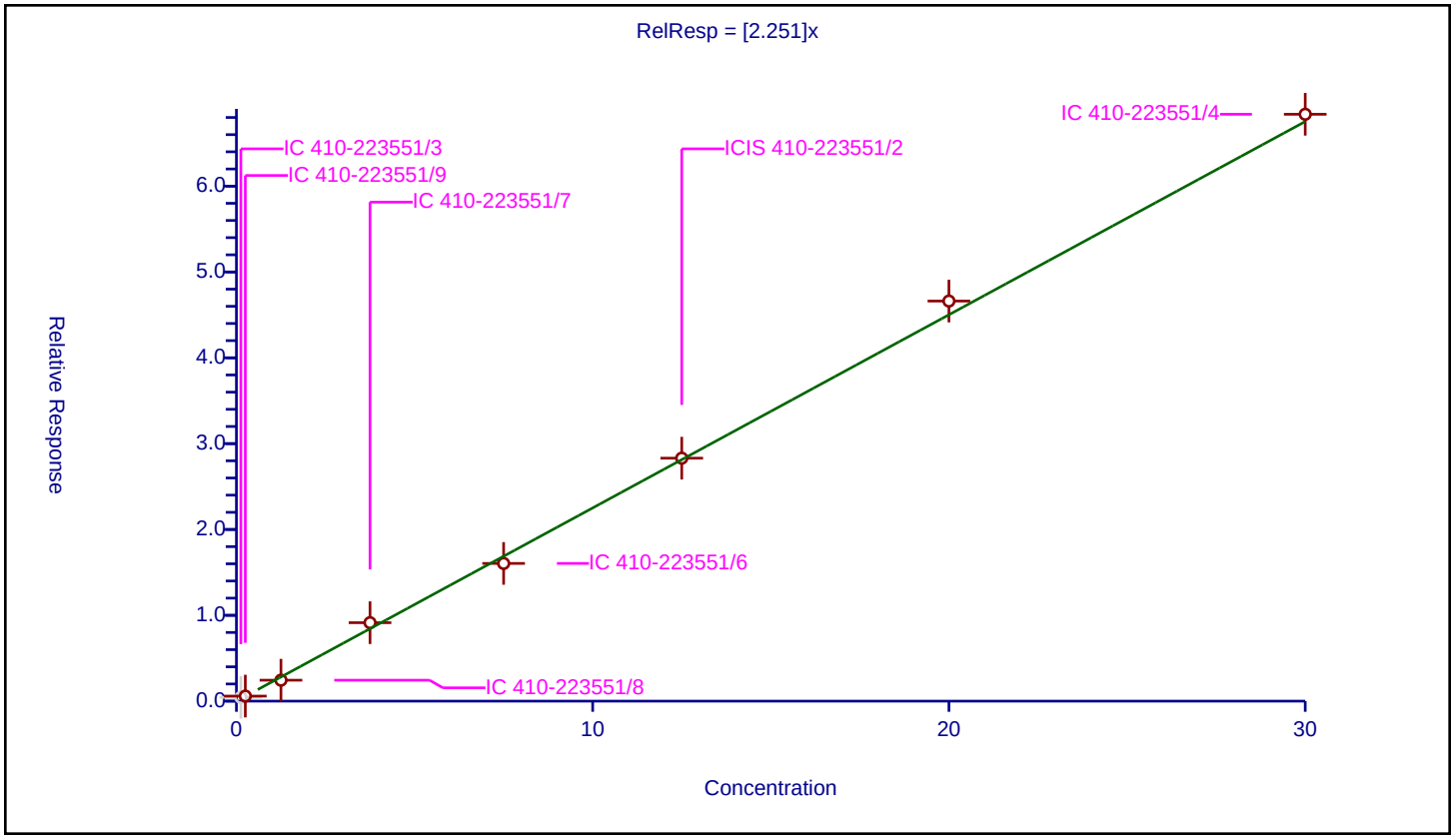
Curve Coefficients

Intercept:	0
Slope:	2.251

Error Coefficients

Standard Error:	1380000
Relative Standard Error:	7.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.441393	5.0	161636.0	3.531144	N
2	IC 410-223551/9	0.25	0.58809	5.0	165927.0	2.35236	Y
3	IC 410-223551/8	1.25	2.441386	5.0	166770.0	1.953109	Y
4	IC 410-223551/7	3.75	9.139648	5.0	161062.0	2.437239	Y
5	IC 410-223551/6	7.5	16.043737	5.0	226877.0	2.139165	Y
6	ICIS 410-223551/2	12.5	28.306027	5.0	198914.0	2.264482	Y
7	IC 410-223551/5	20.0	46.611542	5.0	177203.0	2.330577	Y
8	IC 410-223551/4	30.0	68.373625	5.0	191146.0	2.279121	Y



Calibration / Aniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

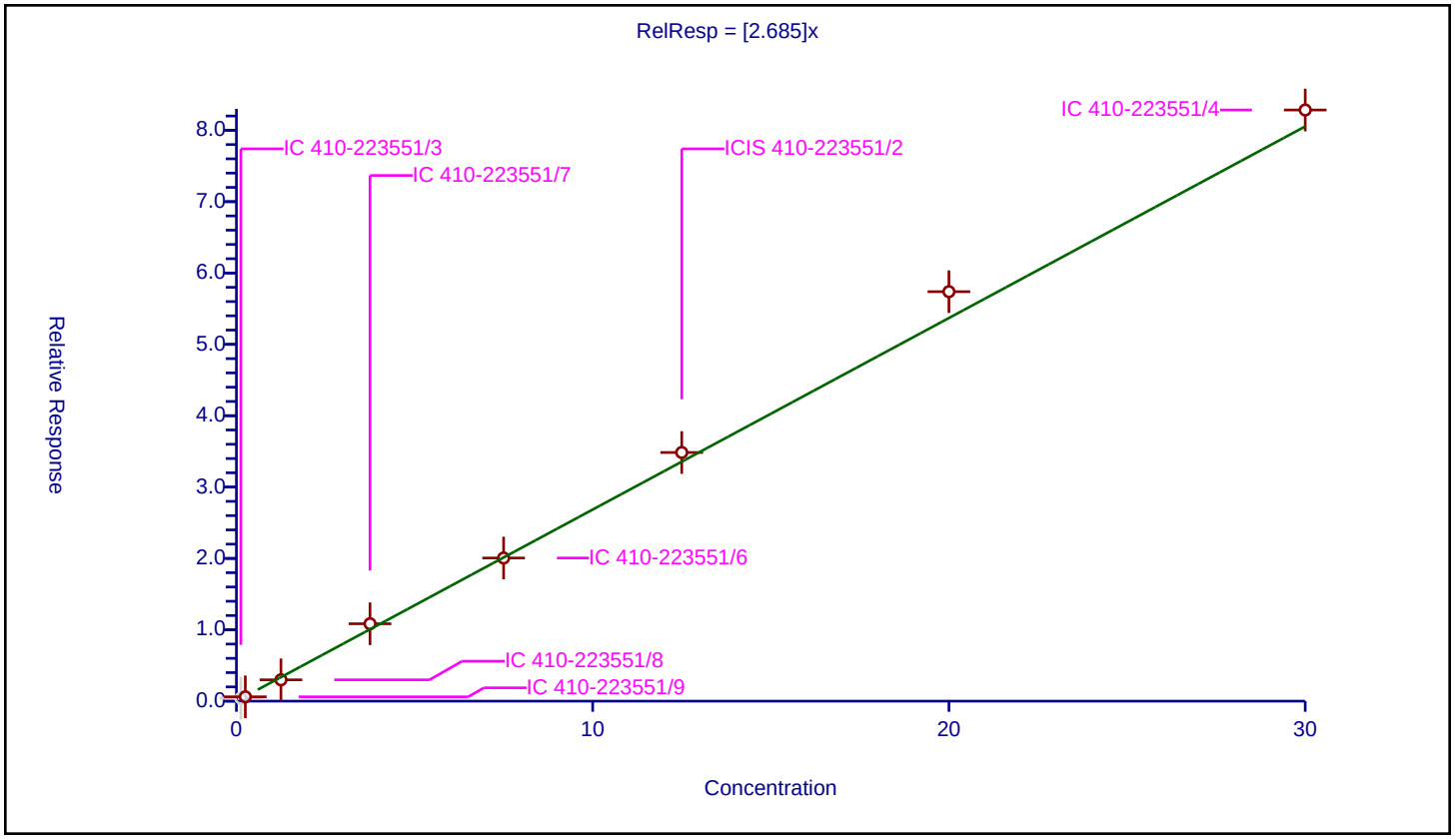
Curve Coefficients

Intercept:	0
Slope:	2.685

Error Coefficients

Standard Error:	1690000
Relative Standard Error:	7.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.415873	5.0	161636.0	3.326982	N
2	IC 410-223551/9	0.25	0.604663	5.0	165927.0	2.418654	Y
3	IC 410-223551/8	1.25	2.986328	5.0	166770.0	2.389063	Y
4	IC 410-223551/7	3.75	10.844613	5.0	161062.0	2.891897	Y
5	IC 410-223551/6	7.5	20.059437	5.0	226877.0	2.674592	Y
6	ICIS 410-223551/2	12.5	34.845888	5.0	198914.0	2.787671	Y
7	IC 410-223551/5	20.0	57.384582	5.0	177203.0	2.869229	Y
8	IC 410-223551/4	30.0	82.84437	5.0	191146.0	2.761479	Y



Calibration / Bis(2-chloroethyl)ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

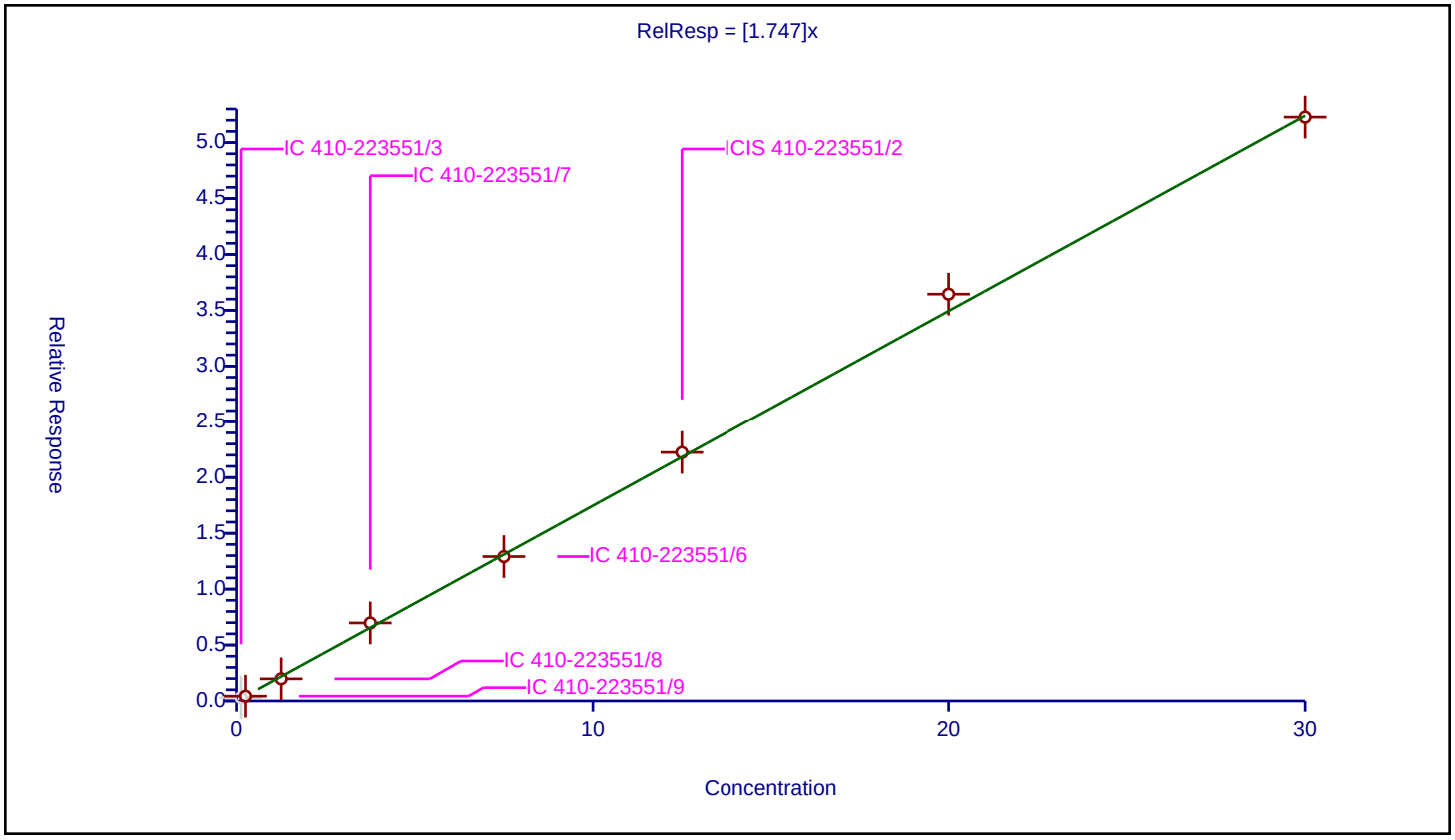
Curve Coefficients

Intercept:	0
Slope:	1.747

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	5.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.308038	5.0	161636.0	2.464303	N
2	IC 410-223551/9	0.25	0.429948	5.0	165927.0	1.719792	Y
3	IC 410-223551/8	1.25	1.976525	5.0	166770.0	1.58122	Y
4	IC 410-223551/7	3.75	6.975047	5.0	161062.0	1.860013	Y
5	IC 410-223551/6	7.5	12.911908	5.0	226877.0	1.721588	Y
6	ICIS 410-223551/2	12.5	22.244462	5.0	198914.0	1.779557	Y
7	IC 410-223551/5	20.0	36.447775	5.0	177203.0	1.822389	Y
8	IC 410-223551/4	30.0	52.277134	5.0	191146.0	1.742571	Y



Calibration / 2-Chlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

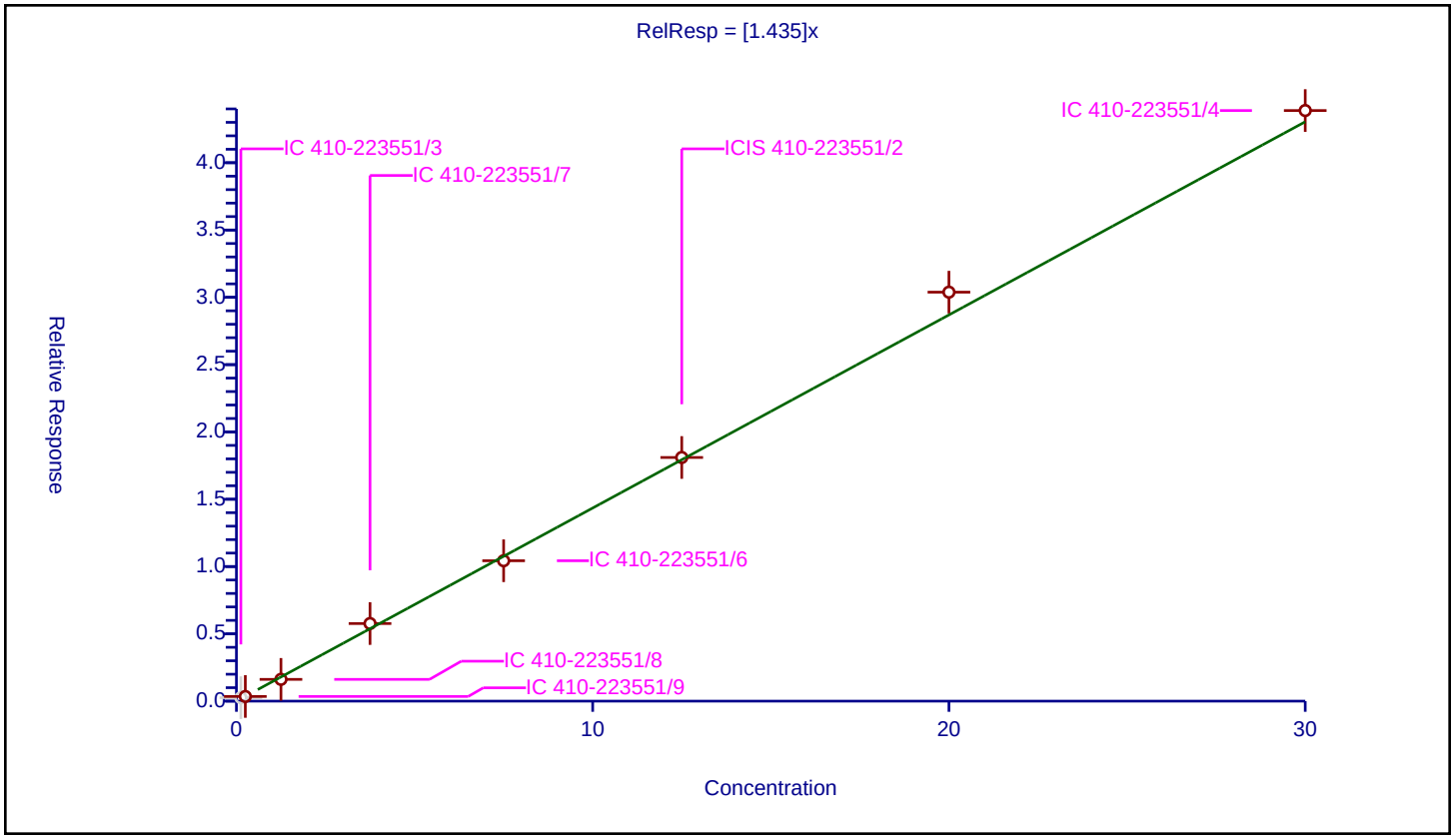
Curve Coefficients

Intercept:	0
Slope:	1.435

Error Coefficients

Standard Error:	890000
Relative Standard Error:	5.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.257894	5.0	161636.0	2.063154	N
2	IC 410-223551/9	0.25	0.347623	5.0	165927.0	1.390491	Y
3	IC 410-223551/8	1.25	1.617887	5.0	166770.0	1.29431	Y
4	IC 410-223551/7	3.75	5.765854	5.0	161062.0	1.537561	Y
5	IC 410-223551/6	7.5	10.43085	5.0	226877.0	1.39078	Y
6	ICIS 410-223551/2	12.5	18.1031	5.0	198914.0	1.448248	Y
7	IC 410-223551/5	20.0	30.384023	5.0	177203.0	1.519201	Y
8	IC 410-223551/4	30.0	43.877664	5.0	191146.0	1.462589	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

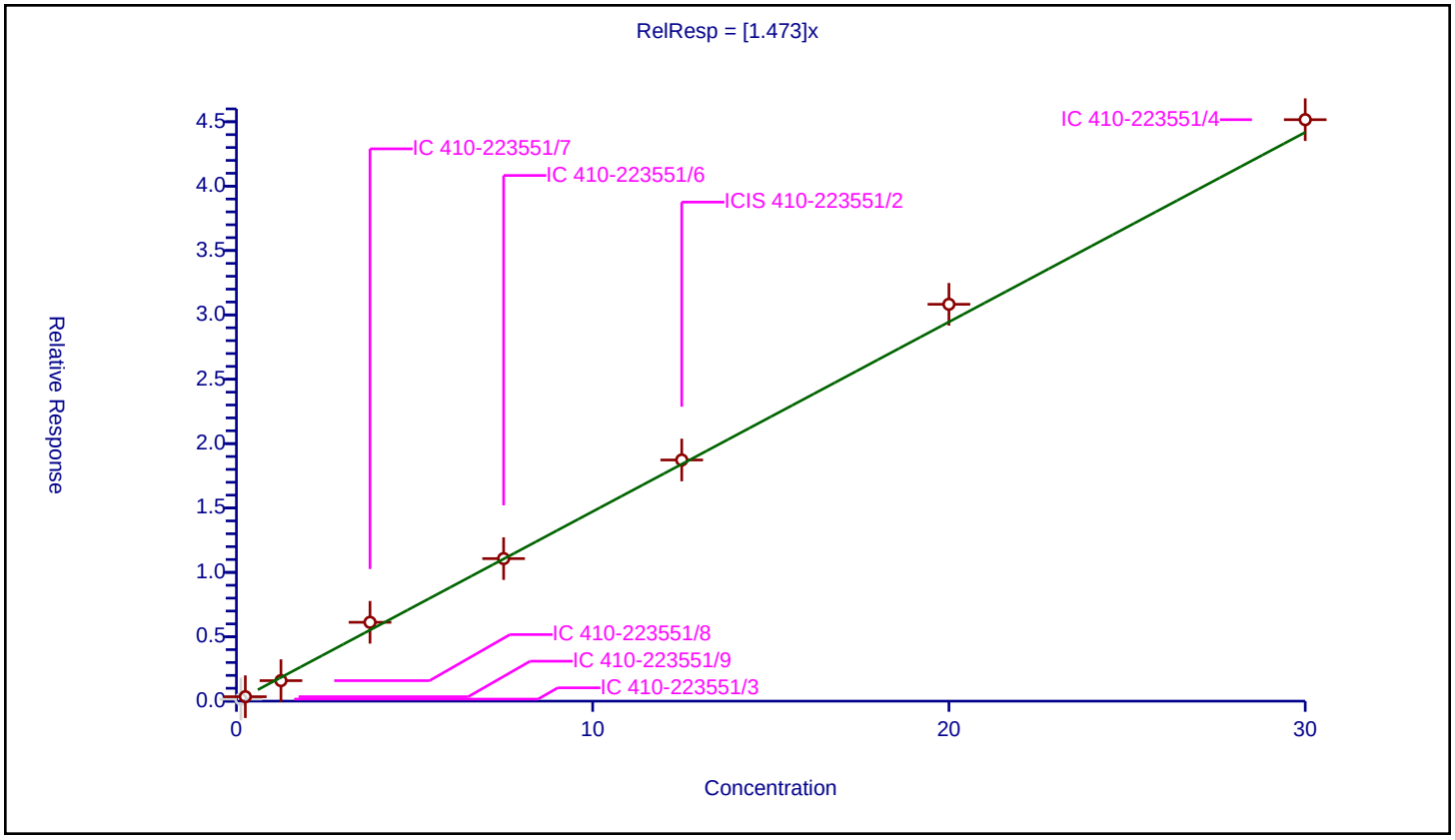
Curve Coefficients

Intercept:	0
Slope:	1.473

Error Coefficients

Standard Error:	915000
Relative Standard Error:	7.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.158288	5.0	161636.0	1.266302	N
2	IC 410-223551/9	0.25	0.345061	5.0	165927.0	1.380246	Y
3	IC 410-223551/8	1.25	1.592822	5.0	166770.0	1.274258	Y
4	IC 410-223551/7	3.75	6.124194	5.0	161062.0	1.633119	Y
5	IC 410-223551/6	7.5	11.069787	5.0	226877.0	1.475972	Y
6	ICIS 410-223551/2	12.5	18.73023	5.0	198914.0	1.498418	Y
7	IC 410-223551/5	20.0	30.824563	5.0	177203.0	1.541228	Y
8	IC 410-223551/4	30.0	45.16286	5.0	191146.0	1.505429	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

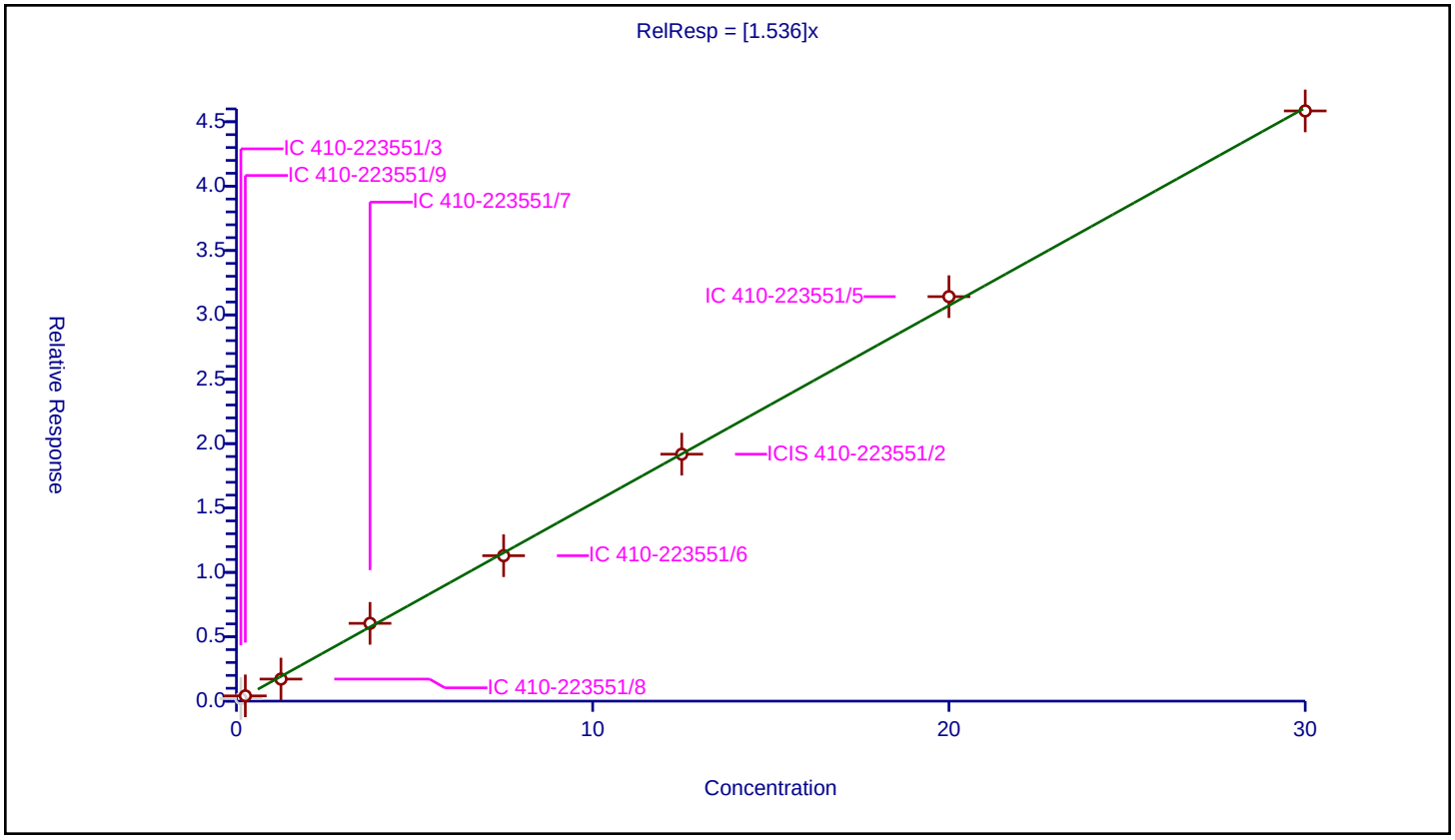
Curve Coefficients

Intercept:	0
Slope:	1.536

Error Coefficients

Standard Error:	931000
Relative Standard Error:	5.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.200079	5.0	161636.0	1.600634	N
2	IC 410-223551/9	0.25	0.408041	5.0	165927.0	1.632164	Y
3	IC 410-223551/8	1.25	1.713378	5.0	166770.0	1.370702	Y
4	IC 410-223551/7	3.75	6.042207	5.0	161062.0	1.611255	Y
5	IC 410-223551/6	7.5	11.295482	5.0	226877.0	1.506064	Y
6	ICIS 410-223551/2	12.5	19.180701	5.0	198914.0	1.534456	Y
7	IC 410-223551/5	20.0	31.417781	5.0	177203.0	1.570889	Y
8	IC 410-223551/4	30.0	45.842785	5.0	191146.0	1.528093	Y



Calibration / Benzyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

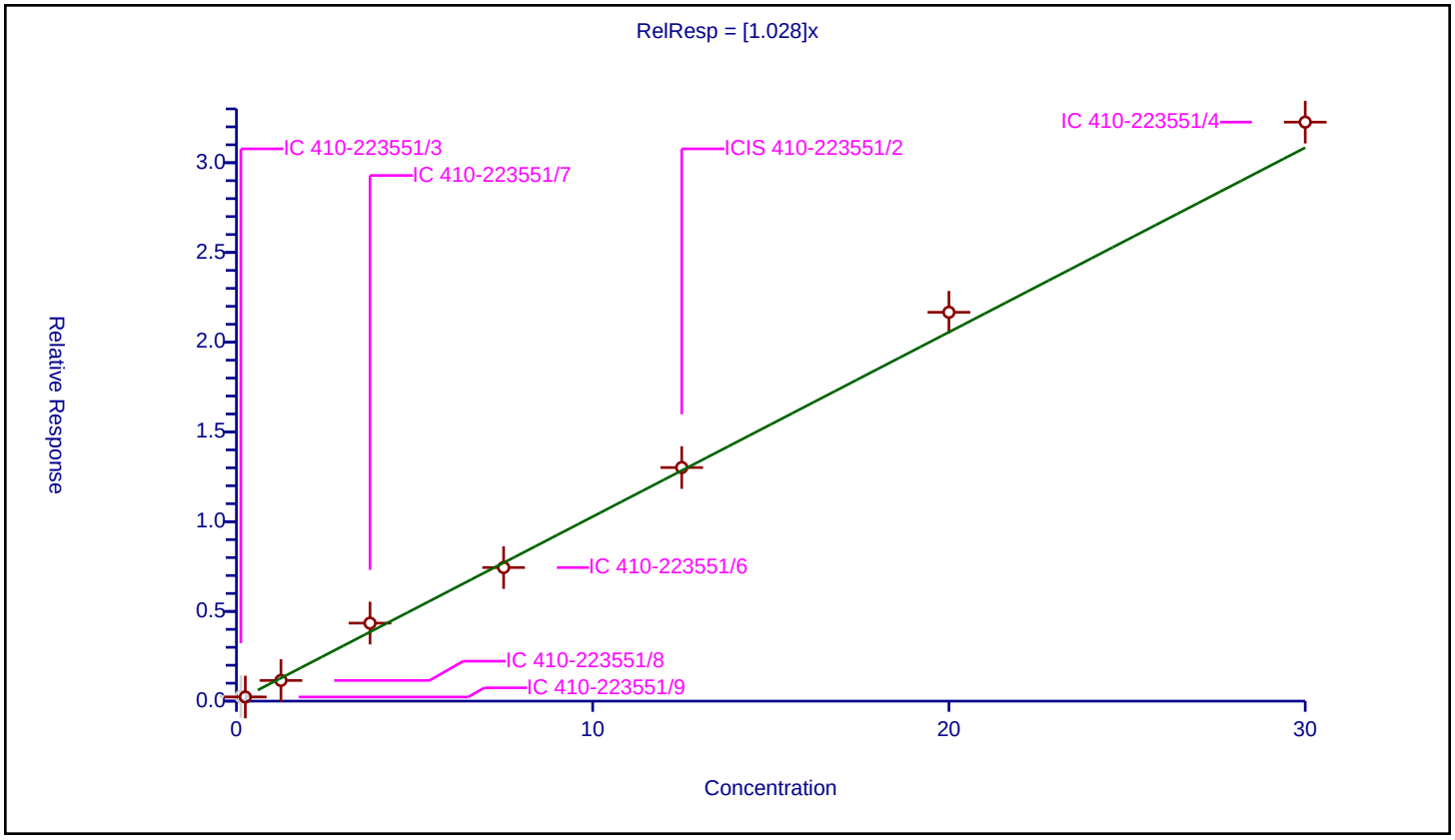
Curve Coefficients

Intercept:	0
Slope:	1.028

Error Coefficients

Standard Error:	647000
Relative Standard Error:	8.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.260957	5.0	161636.0	2.087654	N
2	IC 410-223551/9	0.25	0.230674	5.0	165927.0	0.922695	Y
3	IC 410-223551/8	1.25	1.152216	5.0	166770.0	0.921773	Y
4	IC 410-223551/7	3.75	4.346991	5.0	161062.0	1.159197	Y
5	IC 410-223551/6	7.5	7.444122	5.0	226877.0	0.99255	Y
6	ICIS 410-223551/2	12.5	13.016153	5.0	198914.0	1.041292	Y
7	IC 410-223551/5	20.0	21.667325	5.0	177203.0	1.083366	Y
8	IC 410-223551/4	30.0	32.262982	5.0	191146.0	1.075433	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

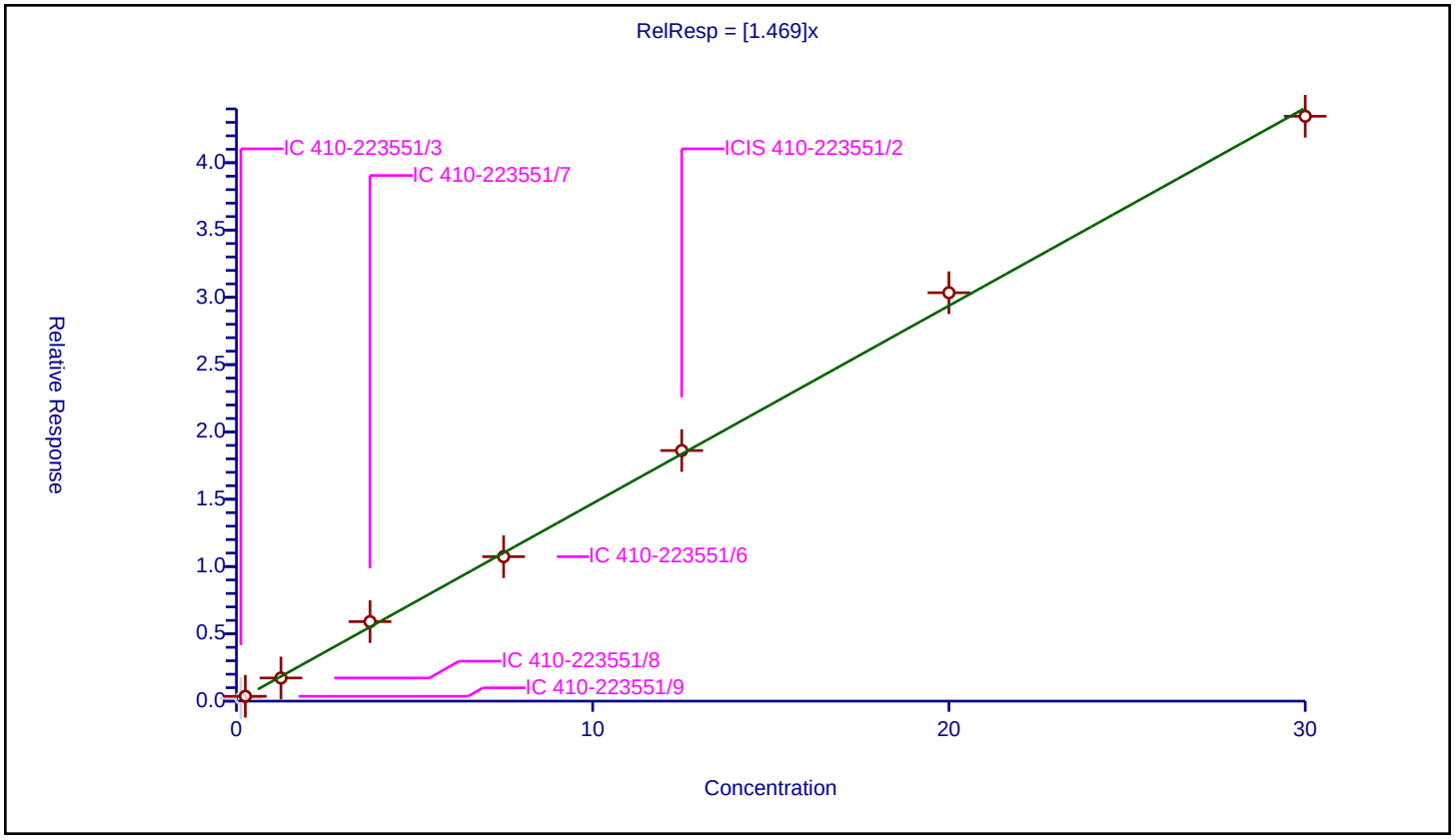
Curve Coefficients

Intercept:	0
Slope:	1.469

Error Coefficients

Standard Error:	889000
Relative Standard Error:	4.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.210659	5.0	161636.0	1.685268	N
2	IC 410-223551/9	0.25	0.361062	5.0	165927.0	1.44425	Y
3	IC 410-223551/8	1.25	1.720124	5.0	166770.0	1.376099	Y
4	IC 410-223551/7	3.75	5.907321	5.0	161062.0	1.575286	Y
5	IC 410-223551/6	7.5	10.733812	5.0	226877.0	1.431175	Y
6	ICIS 410-223551/2	12.5	18.618574	5.0	198914.0	1.489486	Y
7	IC 410-223551/5	20.0	30.343222	5.0	177203.0	1.517161	Y
8	IC 410-223551/4	30.0	43.454192	5.0	191146.0	1.448473	Y



Calibration / 2-Methylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

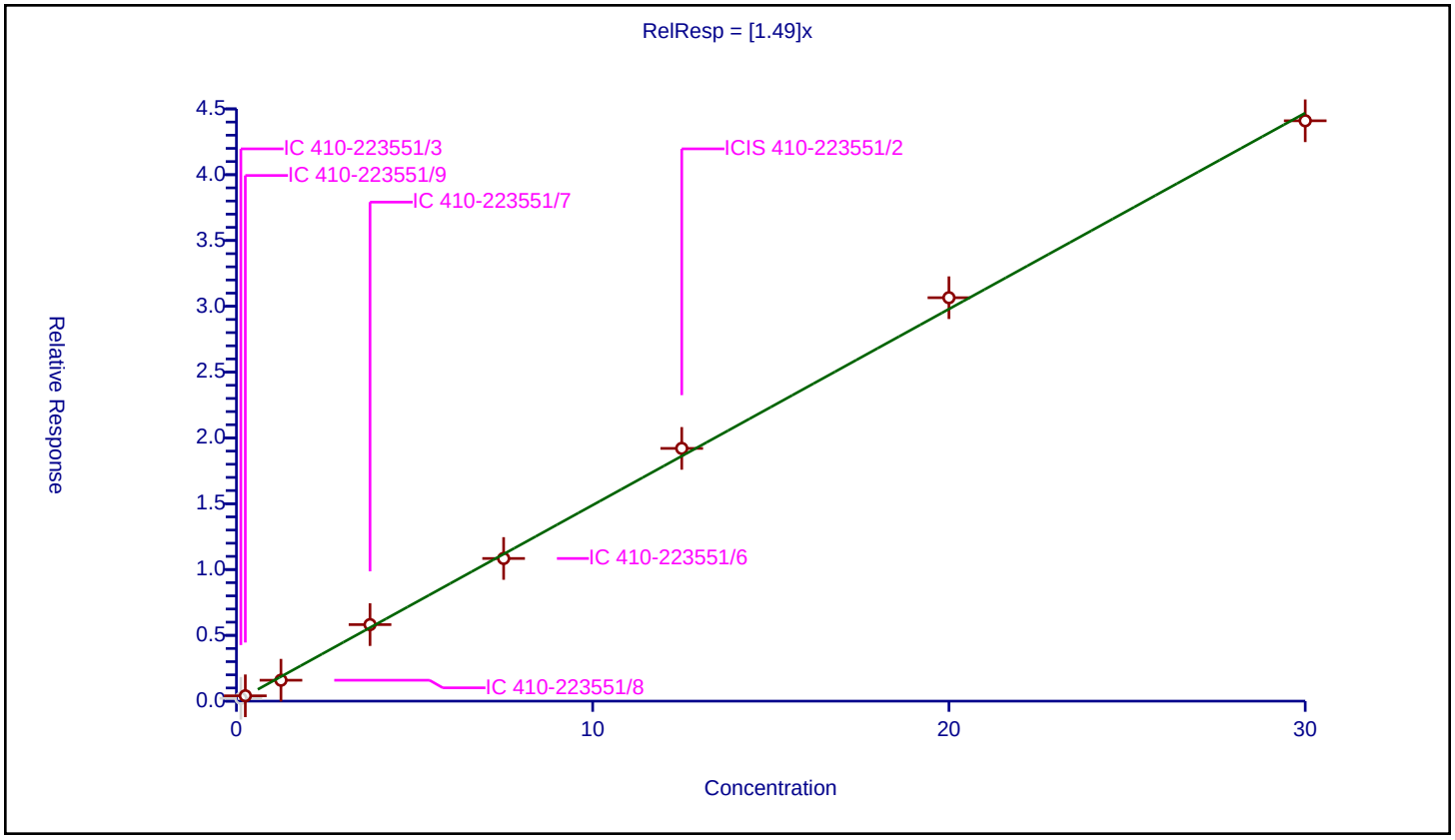
Curve Coefficients

Intercept:	0
Slope:	1.49

Error Coefficients

Standard Error:	902000
Relative Standard Error:	7.5
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.215639	5.0	161636.0	1.725111	N
2	IC 410-223551/9	0.25	0.405088	5.0	165927.0	1.620351	Y
3	IC 410-223551/8	1.25	1.589704	5.0	166770.0	1.271764	Y
4	IC 410-223551/7	3.75	5.814376	5.0	161062.0	1.5505	Y
5	IC 410-223551/6	7.5	10.840389	5.0	226877.0	1.445385	Y
6	ICIS 410-223551/2	12.5	19.204581	5.0	198914.0	1.536366	Y
7	IC 410-223551/5	20.0	30.653572	5.0	177203.0	1.532679	Y
8	IC 410-223551/4	30.0	44.098098	5.0	191146.0	1.469937	Y



Calibration / 2,2'-oxybis[1-chloropropane]

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

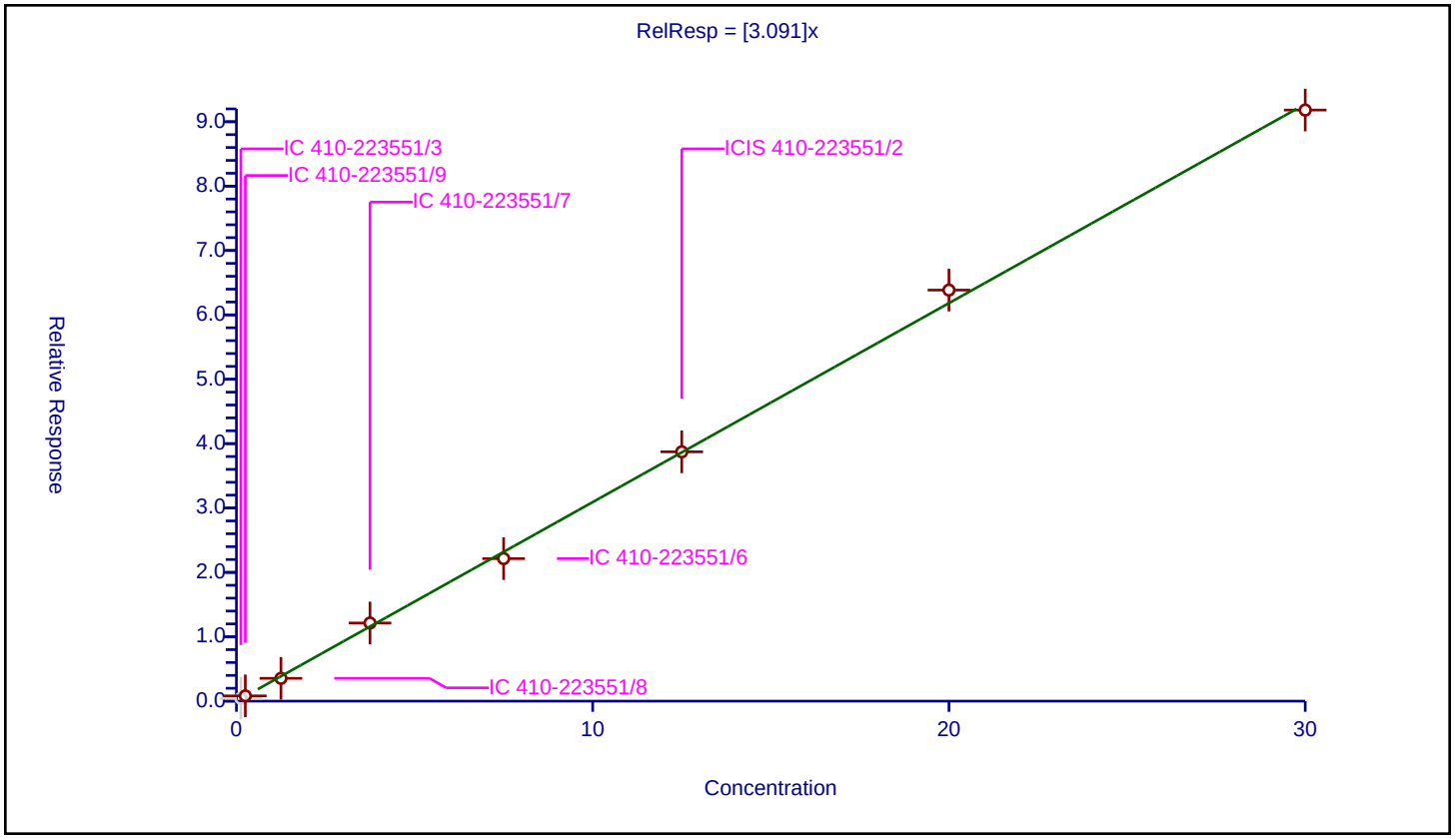
Curve Coefficients

Intercept:	0
Slope:	3.091

Error Coefficients

Standard Error:	1870000
Relative Standard Error:	5.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.440063	5.0	161636.0	3.520503	N
2	IC 410-223551/9	0.25	0.816263	5.0	165927.0	3.26505	Y
3	IC 410-223551/8	1.25	3.543773	5.0	166770.0	2.835018	Y
4	IC 410-223551/7	3.75	12.135823	5.0	161062.0	3.23622	Y
5	IC 410-223551/6	7.5	22.142549	5.0	226877.0	2.95234	Y
6	ICIS 410-223551/2	12.5	38.729627	5.0	198914.0	3.09837	Y
7	IC 410-223551/5	20.0	63.85191	5.0	177203.0	3.192595	Y
8	IC 410-223551/4	30.0	91.816465	5.0	191146.0	3.060549	Y



Calibration / N-Nitrosopyrrolidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

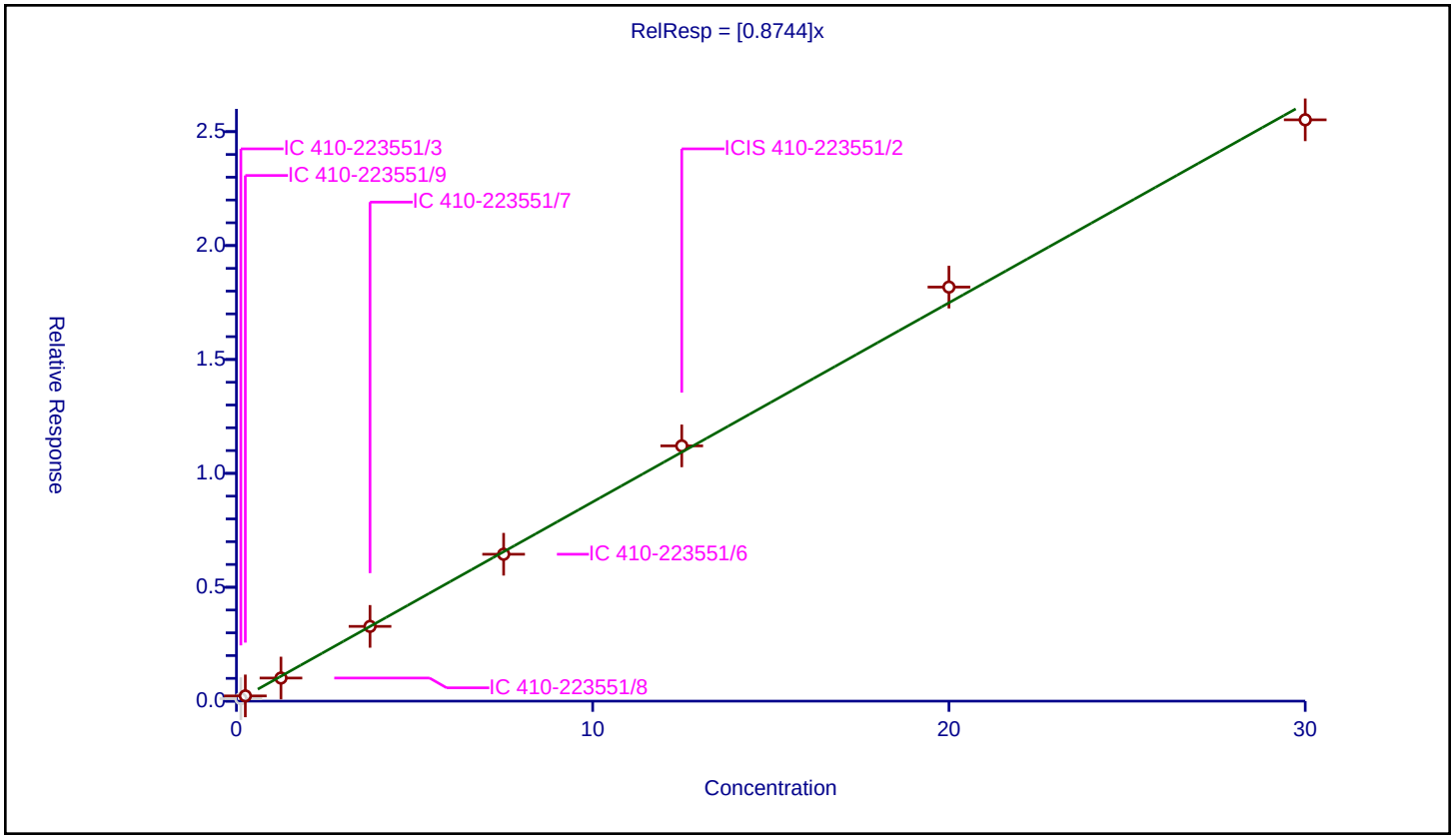
Curve Coefficients

Intercept:	0
Slope:	0.8744

Error Coefficients

Standard Error:	527000
Relative Standard Error:	4.3
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.109474	5.0	161636.0	0.875795	N
2	IC 410-223551/9	0.25	0.229559	5.0	165927.0	0.918235	Y
3	IC 410-223551/8	1.25	1.014631	5.0	166770.0	0.811705	Y
4	IC 410-223551/7	3.75	3.281718	5.0	161062.0	0.875125	Y
5	IC 410-223551/6	7.5	6.449442	5.0	226877.0	0.859926	Y
6	ICIS 410-223551/2	12.5	11.206074	5.0	198914.0	0.896486	Y
7	IC 410-223551/5	20.0	18.176329	5.0	177203.0	0.908816	Y
8	IC 410-223551/4	30.0	25.520388	5.0	191146.0	0.85068	Y



Calibration / 4-Methylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

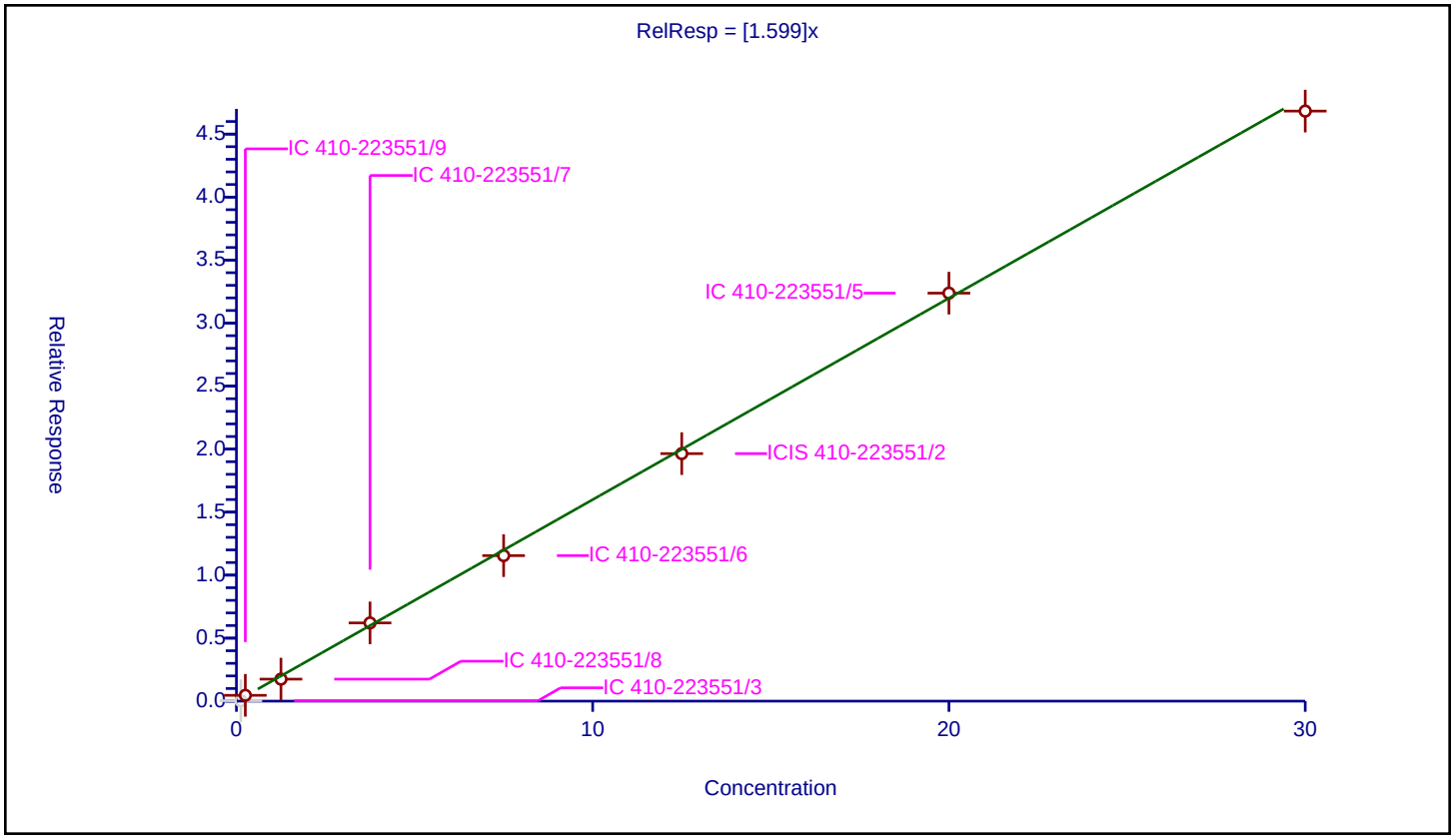
Curve Coefficients

Intercept:	0
Slope:	1.599

Error Coefficients

Standard Error:	953000
Relative Standard Error:	8.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.032511	5.0	161636.0	0.260091	N
2	IC 410-223551/9	0.25	0.462402	5.0	165927.0	1.849609	Y
3	IC 410-223551/8	1.25	1.746327	5.0	166770.0	1.397062	Y
4	IC 410-223551/7	3.75	6.206709	5.0	161062.0	1.655122	Y
5	IC 410-223551/6	7.5	11.546851	5.0	226877.0	1.53958	Y
6	ICIS 410-223551/2	12.5	19.642534	5.0	198914.0	1.571403	Y
7	IC 410-223551/5	20.0	32.378741	5.0	177203.0	1.618937	Y
8	IC 410-223551/4	30.0	46.827216	5.0	191146.0	1.560907	Y



Calibration / N-Nitrosomorpholine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

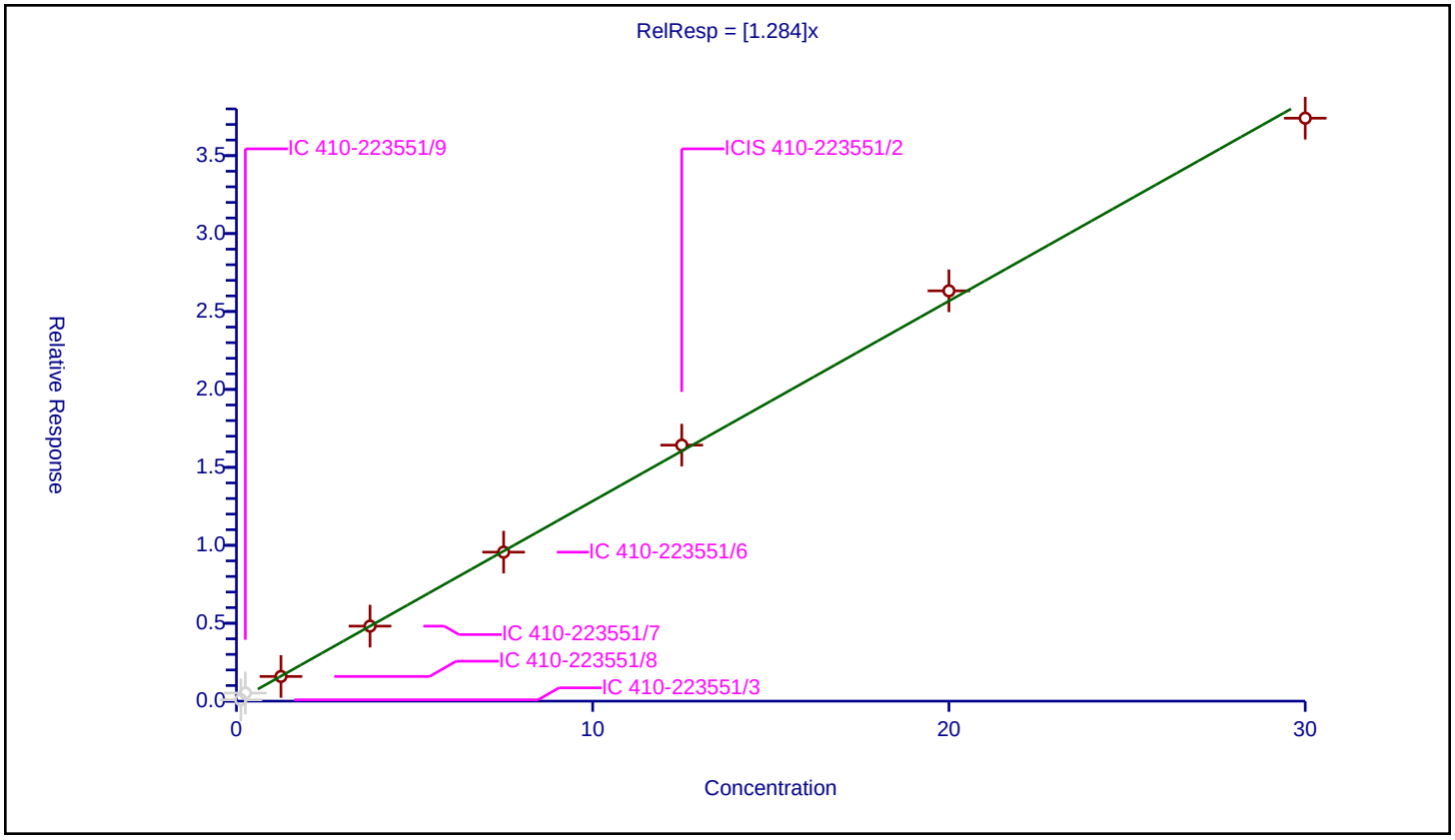
Curve Coefficients

Intercept:	0
Slope:	1.284

Error Coefficients

Standard Error:	843000
Relative Standard Error:	2.1
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.085222	5.0	161636.0	0.681779	N
2	IC 410-223551/9	0.25	0.52041	5.0	165927.0	2.081638	N
3	IC 410-223551/8	1.25	1.583019	5.0	166770.0	1.266415	Y
4	IC 410-223551/7	3.75	4.813271	5.0	161062.0	1.283539	Y
5	IC 410-223551/6	7.5	9.561106	5.0	226877.0	1.274814	Y
6	ICIS 410-223551/2	12.5	16.427451	5.0	198914.0	1.314196	Y
7	IC 410-223551/5	20.0	26.325796	5.0	177203.0	1.31629	Y
8	IC 410-223551/4	30.0	37.404157	5.0	191146.0	1.246805	Y



Calibration / Acetophenone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

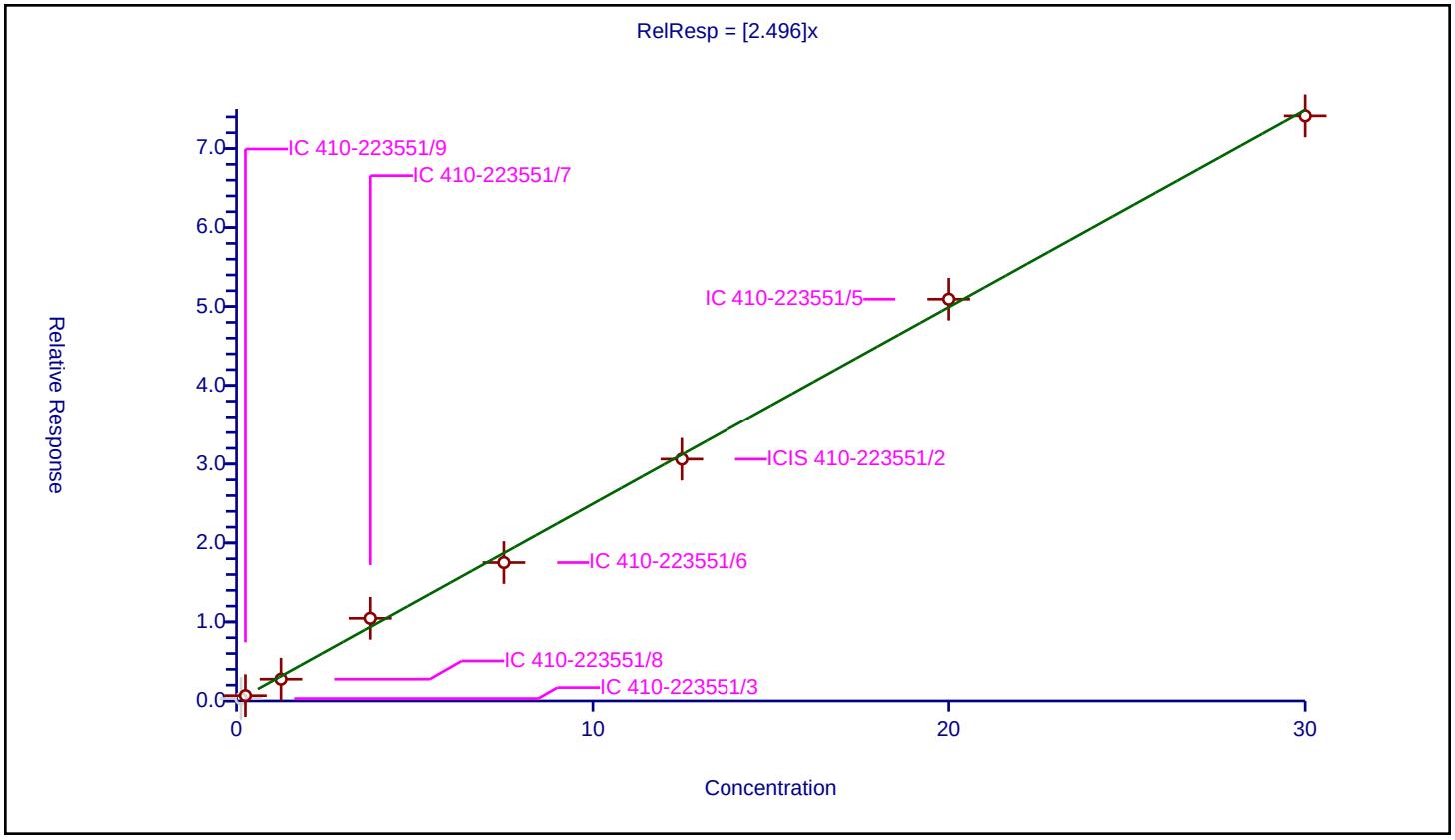
Curve Coefficients

Intercept:	0
Slope:	2.496

Error Coefficients

Standard Error:	1500000
Relative Standard Error:	8.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.304295	5.0	161636.0	2.434359	N
2	IC 410-223551/9	0.25	0.670204	5.0	165927.0	2.680817	Y
3	IC 410-223551/8	1.25	2.748906	5.0	166770.0	2.199125	Y
4	IC 410-223551/7	3.75	10.457867	5.0	161062.0	2.788765	Y
5	IC 410-223551/6	7.5	17.518325	5.0	226877.0	2.335777	Y
6	ICIS 410-223551/2	12.5	30.625145	5.0	198914.0	2.450012	Y
7	IC 410-223551/5	20.0	50.935396	5.0	177203.0	2.54677	Y
8	IC 410-223551/4	30.0	74.13294	5.0	191146.0	2.471098	Y



Calibration / N-Nitrosodi-n-propylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

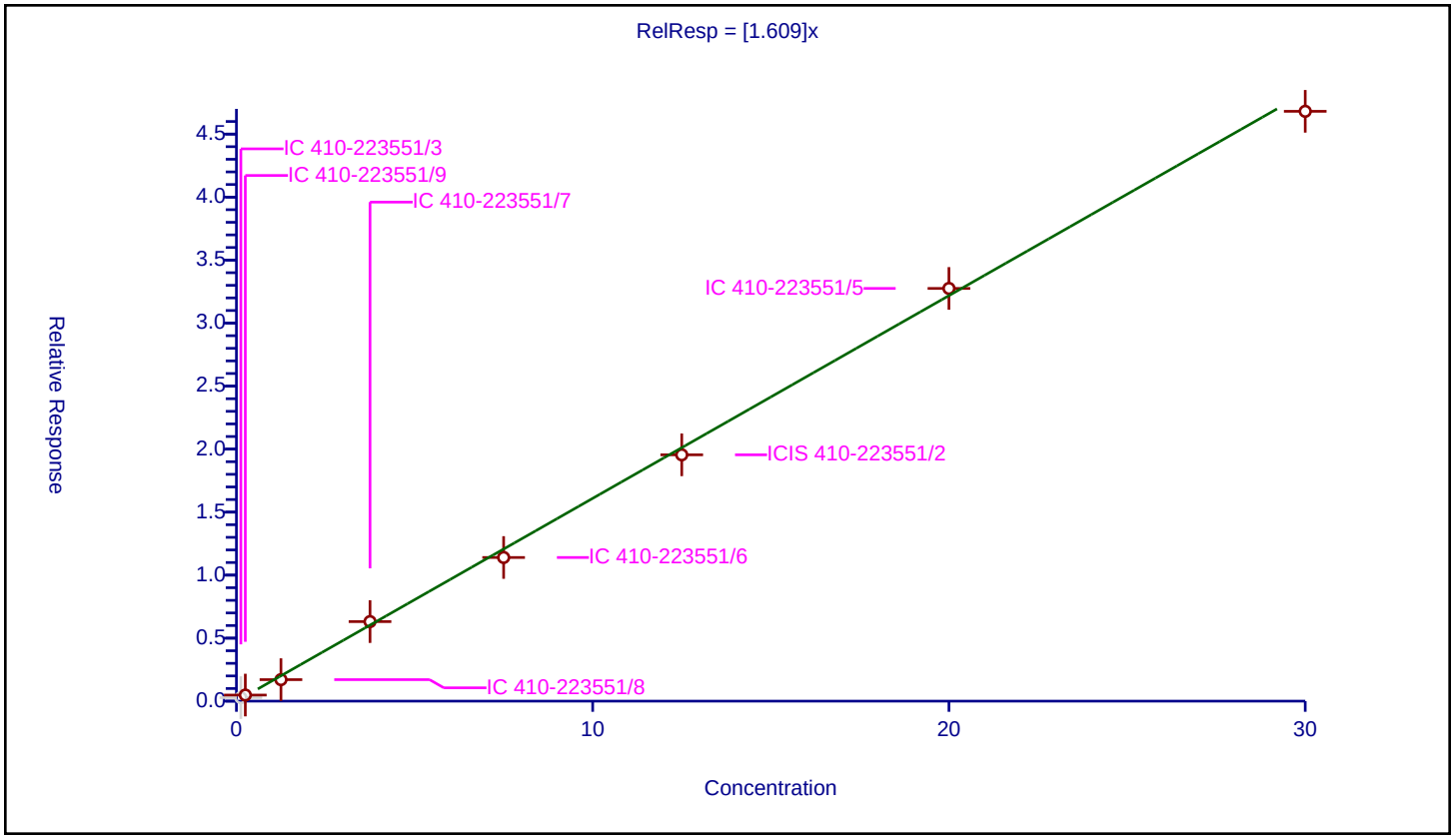
Curve Coefficients

Intercept:	0
Slope:	1.609

Error Coefficients

Standard Error:	954000
Relative Standard Error:	10.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.281095	5.0	161636.0	2.248756	N
2	IC 410-223551/9	0.25	0.483496	5.0	165927.0	1.933983	Y
3	IC 410-223551/8	1.25	1.705822	5.0	166770.0	1.364658	Y
4	IC 410-223551/7	3.75	6.313283	5.0	161062.0	1.683542	Y
5	IC 410-223551/6	7.5	11.400054	5.0	226877.0	1.520007	Y
6	ICIS 410-223551/2	12.5	19.547342	5.0	198914.0	1.563787	Y
7	IC 410-223551/5	20.0	32.75269	5.0	177203.0	1.637635	Y
8	IC 410-223551/4	30.0	46.806682	5.0	191146.0	1.560223	Y



Calibration / 2-Toluidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

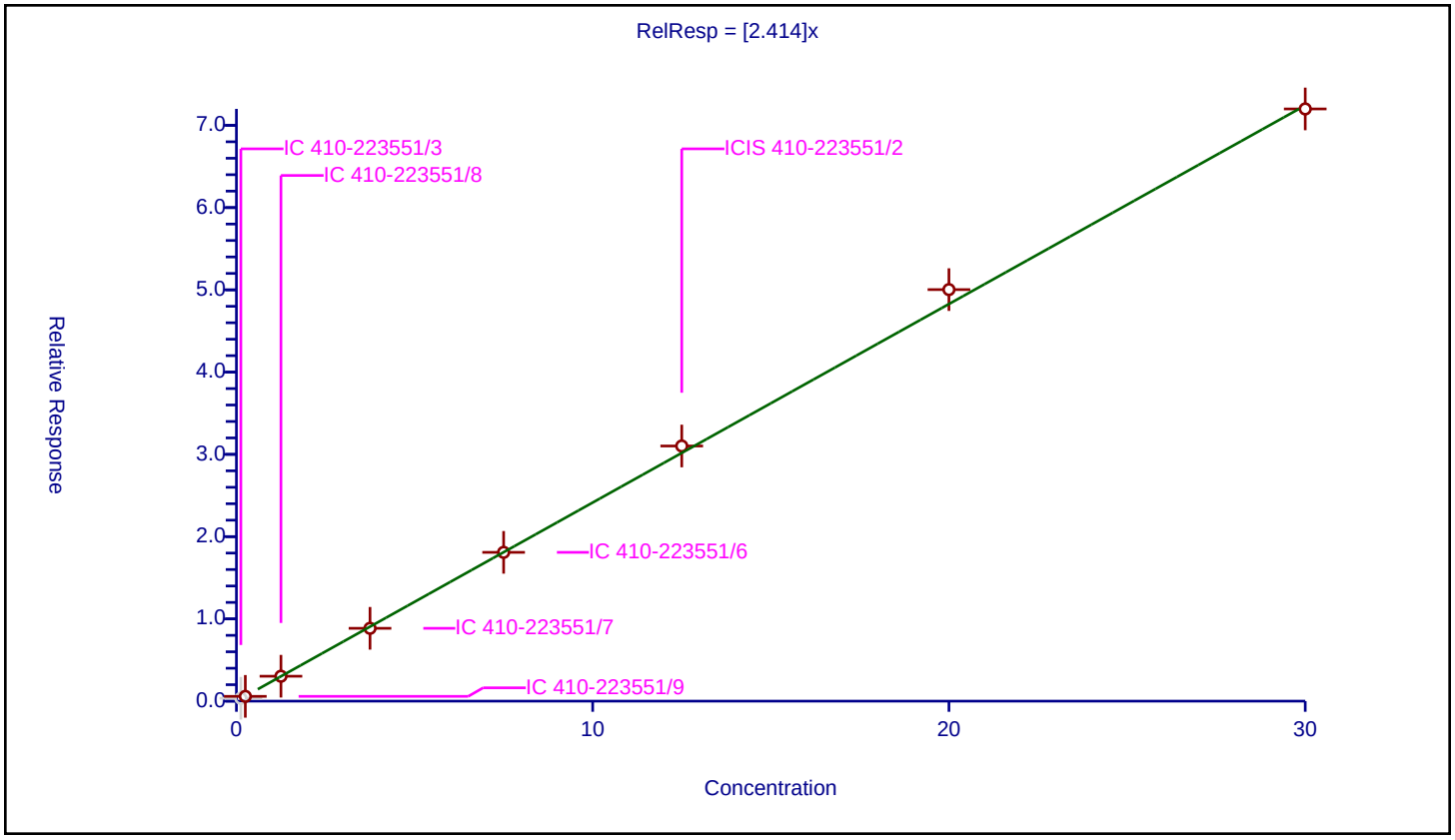
Curve Coefficients

Intercept:	0
Slope:	2.414

Error Coefficients

Standard Error:	1470000
Relative Standard Error:	2.6
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.352304	5.0	161636.0	2.818432	N
2	IC 410-223551/9	0.25	0.579803	5.0	165927.0	2.319213	Y
3	IC 410-223551/8	1.25	3.028302	5.0	166770.0	2.422642	Y
4	IC 410-223551/7	3.75	8.854416	5.0	161062.0	2.361178	Y
5	IC 410-223551/6	7.5	18.088061	5.0	226877.0	2.411741	Y
6	ICIS 410-223551/2	12.5	31.017475	5.0	198914.0	2.481398	Y
7	IC 410-223551/5	20.0	50.031348	5.0	177203.0	2.501567	Y
8	IC 410-223551/4	30.0	71.994601	5.0	191146.0	2.39982	Y



Calibration / Hexachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

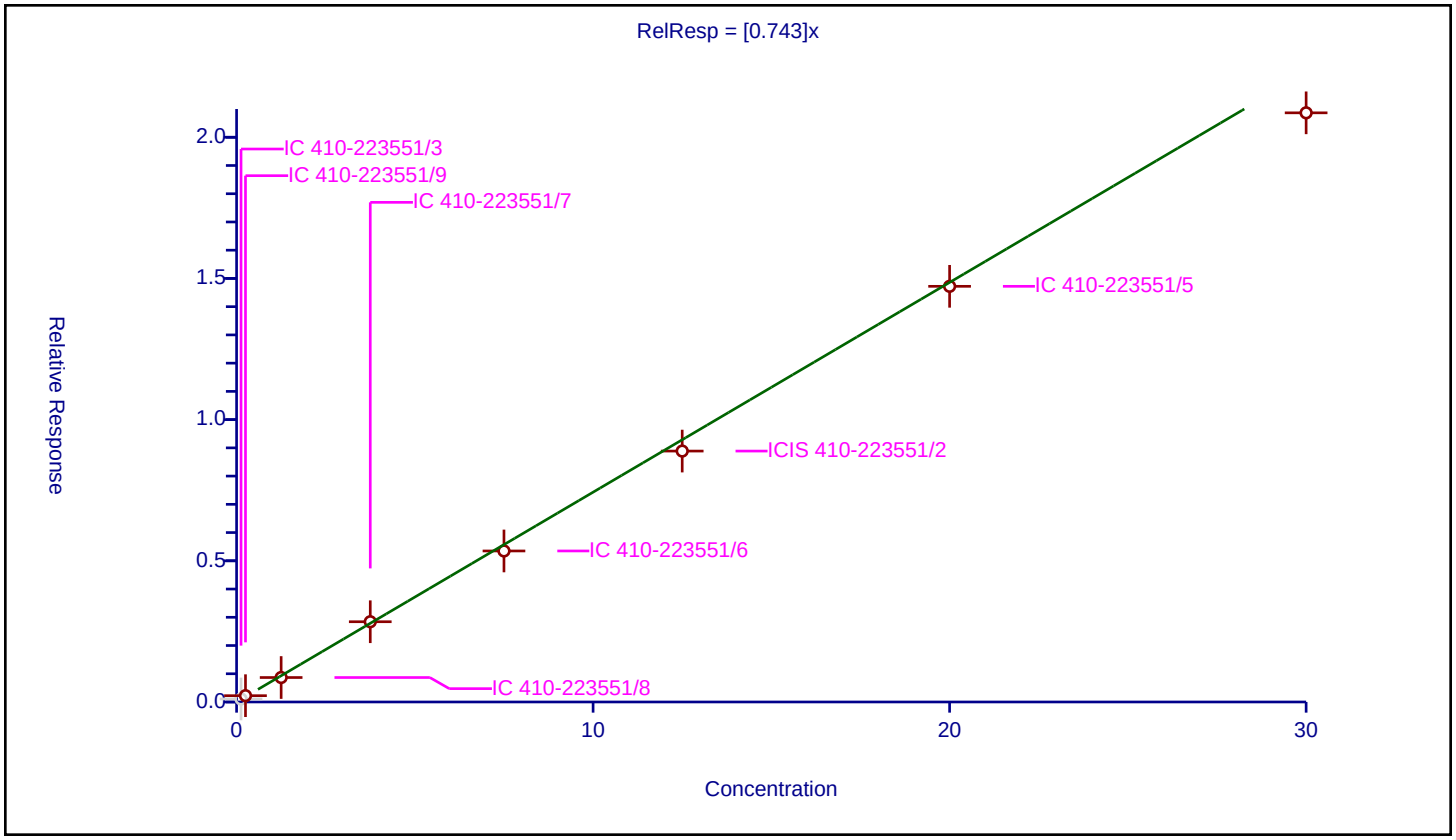
Curve Coefficients

Intercept:	0
Slope:	0.743

Error Coefficients

Standard Error:	428000
Relative Standard Error:	9.5
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.107278	5.0	161636.0	0.858225	N
2	IC 410-223551/9	0.25	0.223502	5.0	165927.0	0.894008	Y
3	IC 410-223551/8	1.25	0.866583	5.0	166770.0	0.693266	Y
4	IC 410-223551/7	3.75	2.841763	5.0	161062.0	0.757803	Y
5	IC 410-223551/6	7.5	5.348405	5.0	226877.0	0.713121	Y
6	ICIS 410-223551/2	12.5	8.886227	5.0	198914.0	0.710898	Y
7	IC 410-223551/5	20.0	14.721139	5.0	177203.0	0.736057	Y
8	IC 410-223551/4	30.0	20.864993	5.0	191146.0	0.6955	Y



Calibration / Nitrobenzene-d5

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

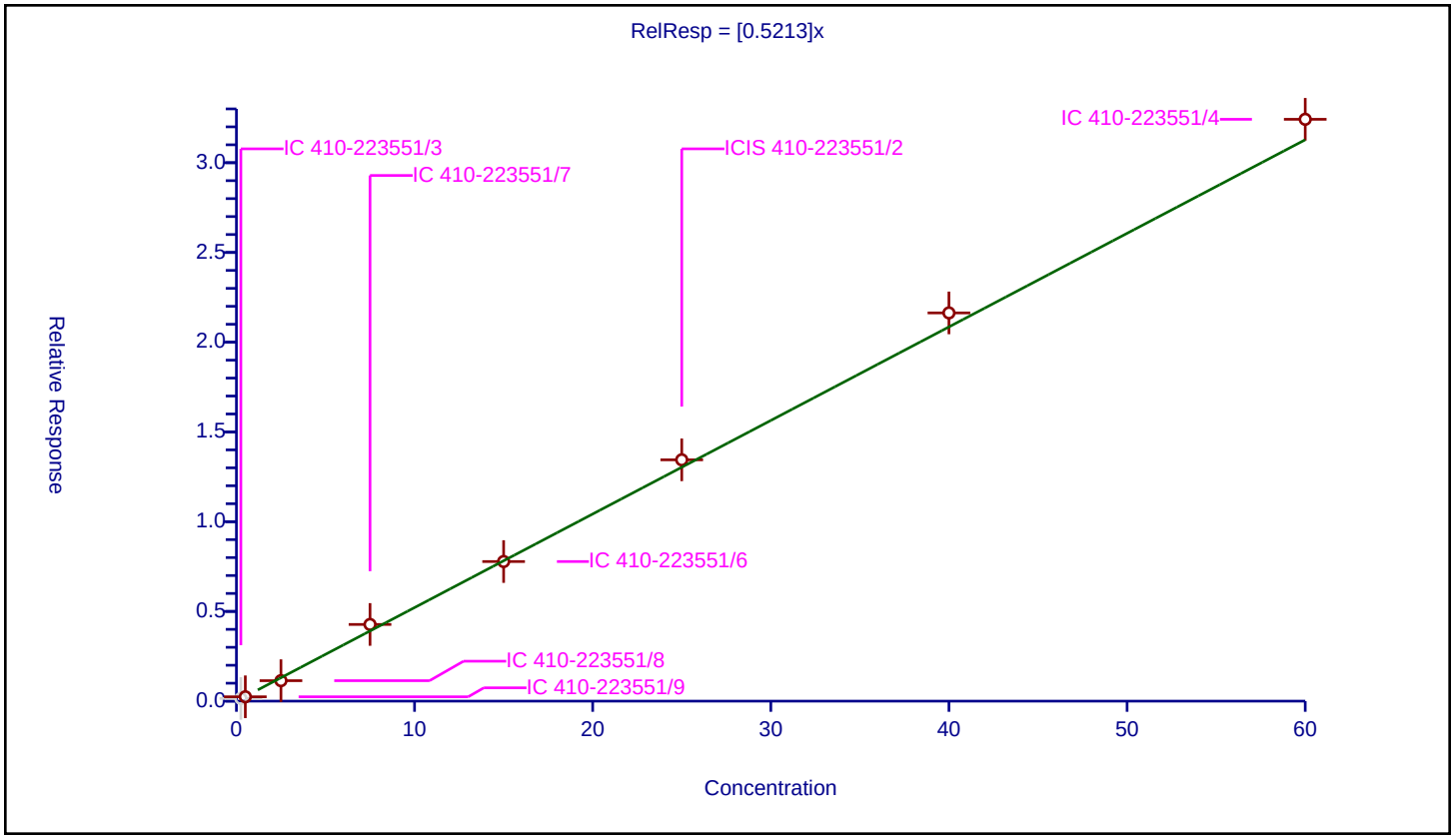
Curve Coefficients

Intercept:	0
Slope:	0.5213

Error Coefficients

Standard Error:	2560000
Relative Standard Error:	7.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.25	0.151087	5.0	638441.0	0.604347	N
2	IC 410-223551/9	0.5	0.242904	5.0	653323.0	0.485809	Y
3	IC 410-223551/8	2.5	1.140308	5.0	656428.0	0.456123	Y
4	IC 410-223551/7	7.5	4.272974	5.0	642508.0	0.56973	Y
5	IC 410-223551/6	15.0	7.778589	5.0	890630.0	0.518573	Y
6	ICIS 410-223551/2	25.0	13.446878	5.0	788982.0	0.537875	Y
7	IC 410-223551/5	40.0	21.632154	5.0	712114.0	0.540804	Y
8	IC 410-223551/4	60.0	32.419167	5.0	738564.0	0.540319	Y



Calibration / Nitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

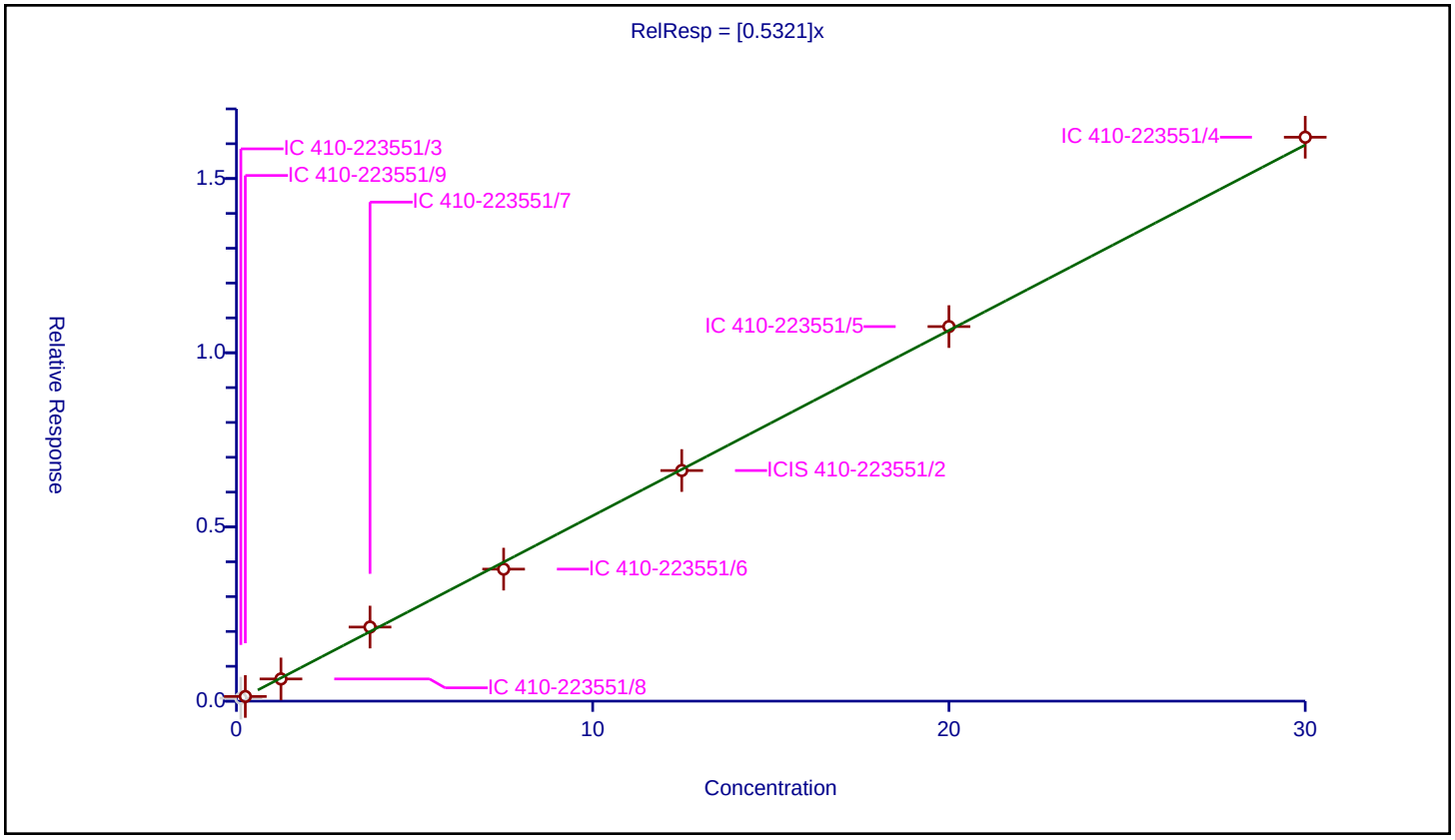
Curve Coefficients

Intercept:	0
Slope:	0.5321

Error Coefficients

Standard Error:	1270000
Relative Standard Error:	3.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.084487	5.0	638441.0	0.675896	N
2	IC 410-223551/9	0.25	0.134015	5.0	653323.0	0.536059	Y
3	IC 410-223551/8	1.25	0.637412	5.0	656428.0	0.509929	Y
4	IC 410-223551/7	3.75	2.126534	5.0	642508.0	0.567076	Y
5	IC 410-223551/6	7.5	3.789464	5.0	890630.0	0.505262	Y
6	ICIS 410-223551/2	12.5	6.619137	5.0	788982.0	0.529531	Y
7	IC 410-223551/5	20.0	10.751537	5.0	712114.0	0.537577	Y
8	IC 410-223551/4	30.0	16.186742	5.0	738564.0	0.539558	Y



Calibration / N-Nitrosopiperidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

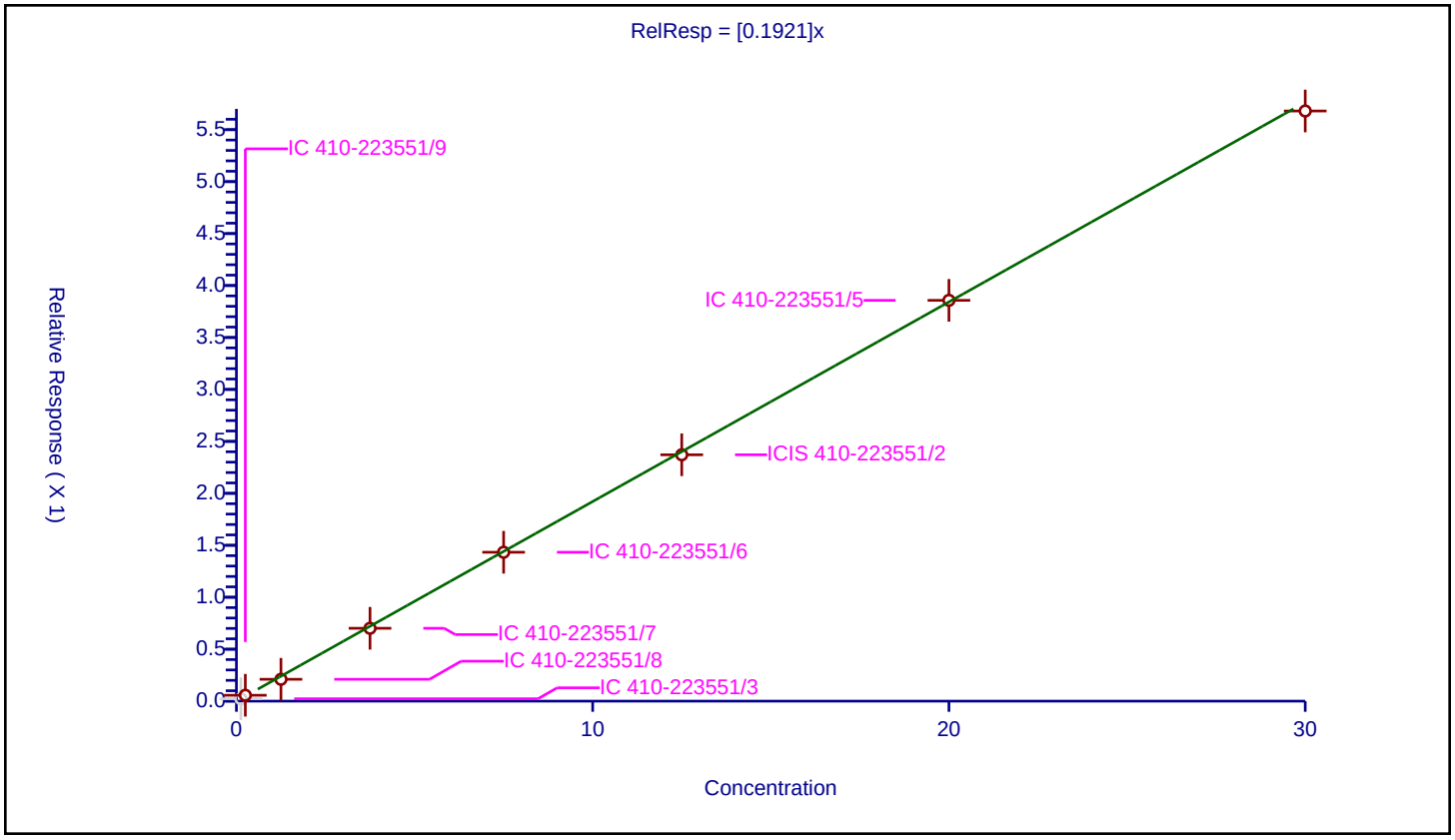
Curve Coefficients

Intercept:	0
Slope:	0.1921

Error Coefficients

Standard Error:	451000
Relative Standard Error:	9.0
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.023041	5.0	638441.0	0.184324	N
2	IC 410-223551/9	0.25	0.056634	5.0	653323.0	0.226534	Y
3	IC 410-223551/8	1.25	0.210389	5.0	656428.0	0.168311	Y
4	IC 410-223551/7	3.75	0.70133	5.0	642508.0	0.187021	Y
5	IC 410-223551/6	7.5	1.432935	5.0	890630.0	0.191058	Y
6	ICIS 410-223551/2	12.5	2.371011	5.0	788982.0	0.189681	Y
7	IC 410-223551/5	20.0	3.857416	5.0	712114.0	0.192871	Y
8	IC 410-223551/4	30.0	5.679806	5.0	738564.0	0.189327	Y



Calibration / Isophorone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

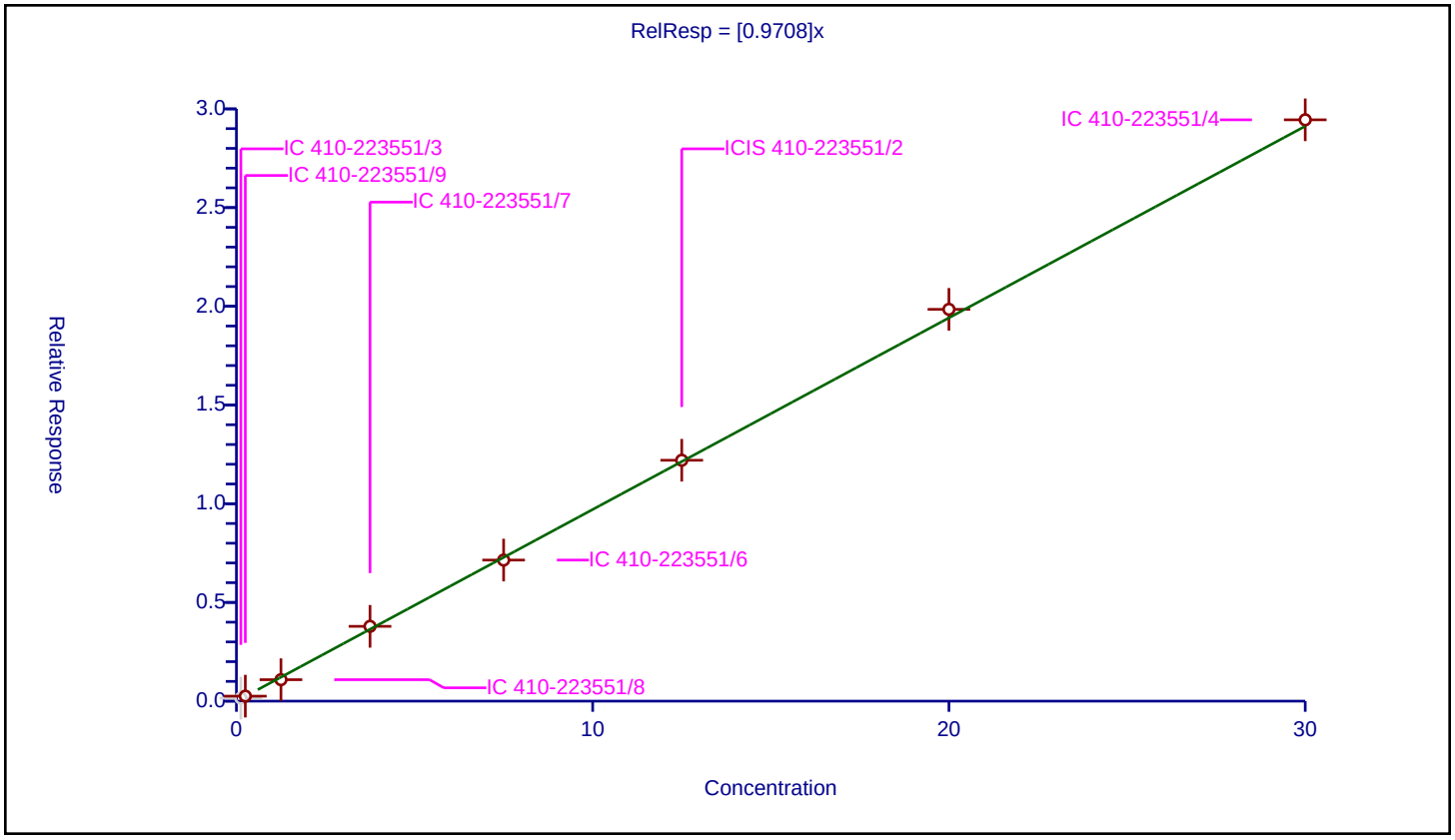
Curve Coefficients

Intercept:	0
Slope:	0.9708

Error Coefficients

Standard Error:	2330000
Relative Standard Error:	5.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.152496	5.0	638441.0	1.219972	N
2	IC 410-223551/9	0.25	0.253167	5.0	653323.0	1.012669	Y
3	IC 410-223551/8	1.25	1.086745	5.0	656428.0	0.869396	Y
4	IC 410-223551/7	3.75	3.789571	5.0	642508.0	1.010552	Y
5	IC 410-223551/6	7.5	7.146104	5.0	890630.0	0.952814	Y
6	ICIS 410-223551/2	12.5	12.201951	5.0	788982.0	0.976156	Y
7	IC 410-223551/5	20.0	19.846591	5.0	712114.0	0.99233	Y
8	IC 410-223551/4	30.0	29.447042	5.0	738564.0	0.981568	Y



Calibration / 2-Nitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

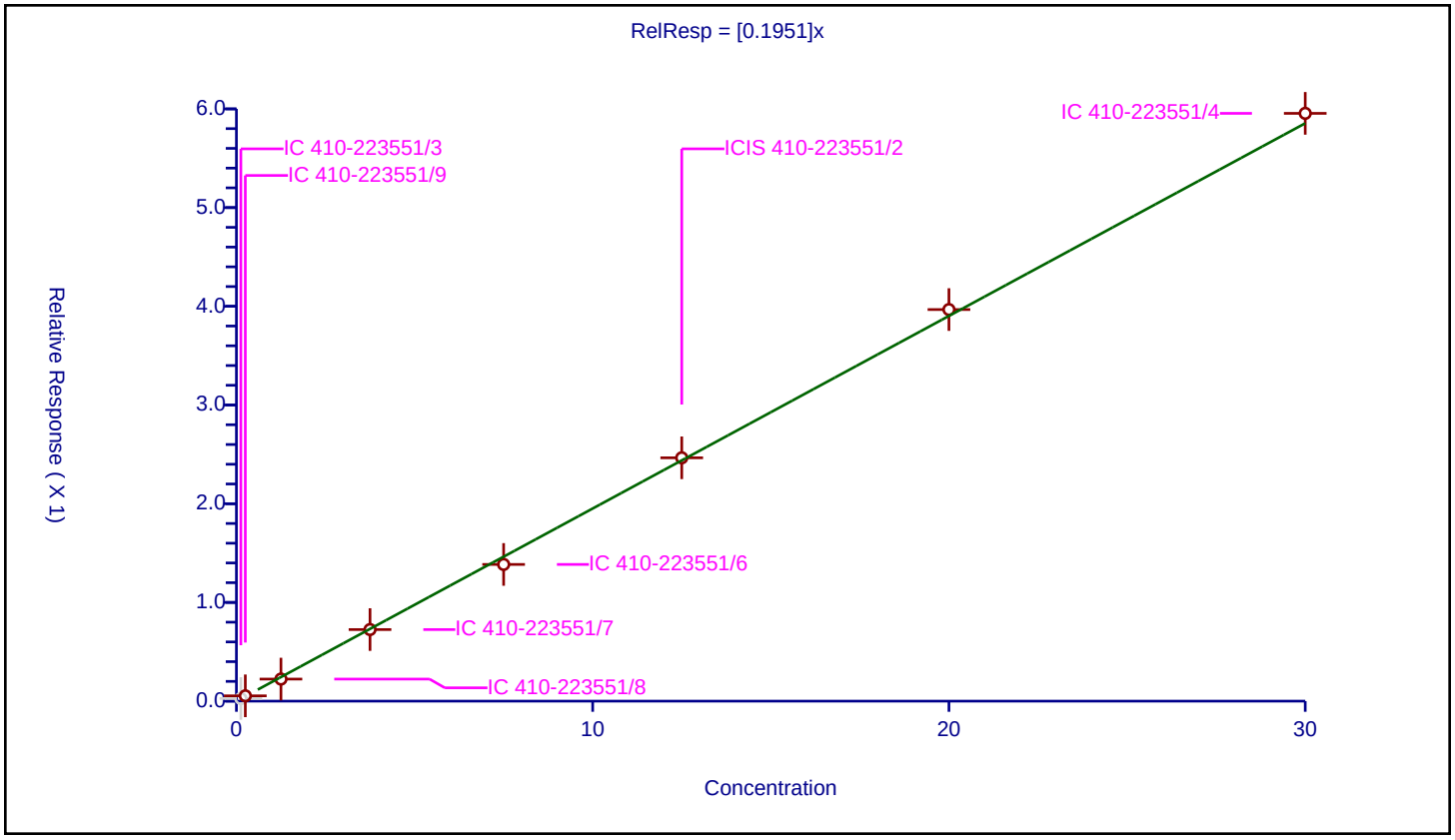
Curve Coefficients

Intercept:	0
Slope:	0.1951

Error Coefficients

Standard Error:	468000
Relative Standard Error:	5.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.026948	5.0	638441.0	0.215588	N
2	IC 410-223551/9	0.25	0.053733	5.0	653323.0	0.214932	Y
3	IC 410-223551/8	1.25	0.223612	5.0	656428.0	0.178889	Y
4	IC 410-223551/7	3.75	0.725205	5.0	642508.0	0.193388	Y
5	IC 410-223551/6	7.5	1.384874	5.0	890630.0	0.18465	Y
6	ICIS 410-223551/2	12.5	2.465189	5.0	788982.0	0.197215	Y
7	IC 410-223551/5	20.0	3.967104	5.0	712114.0	0.198355	Y
8	IC 410-223551/4	30.0	5.954575	5.0	738564.0	0.198486	Y



Calibration / 2,4-Dimethylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

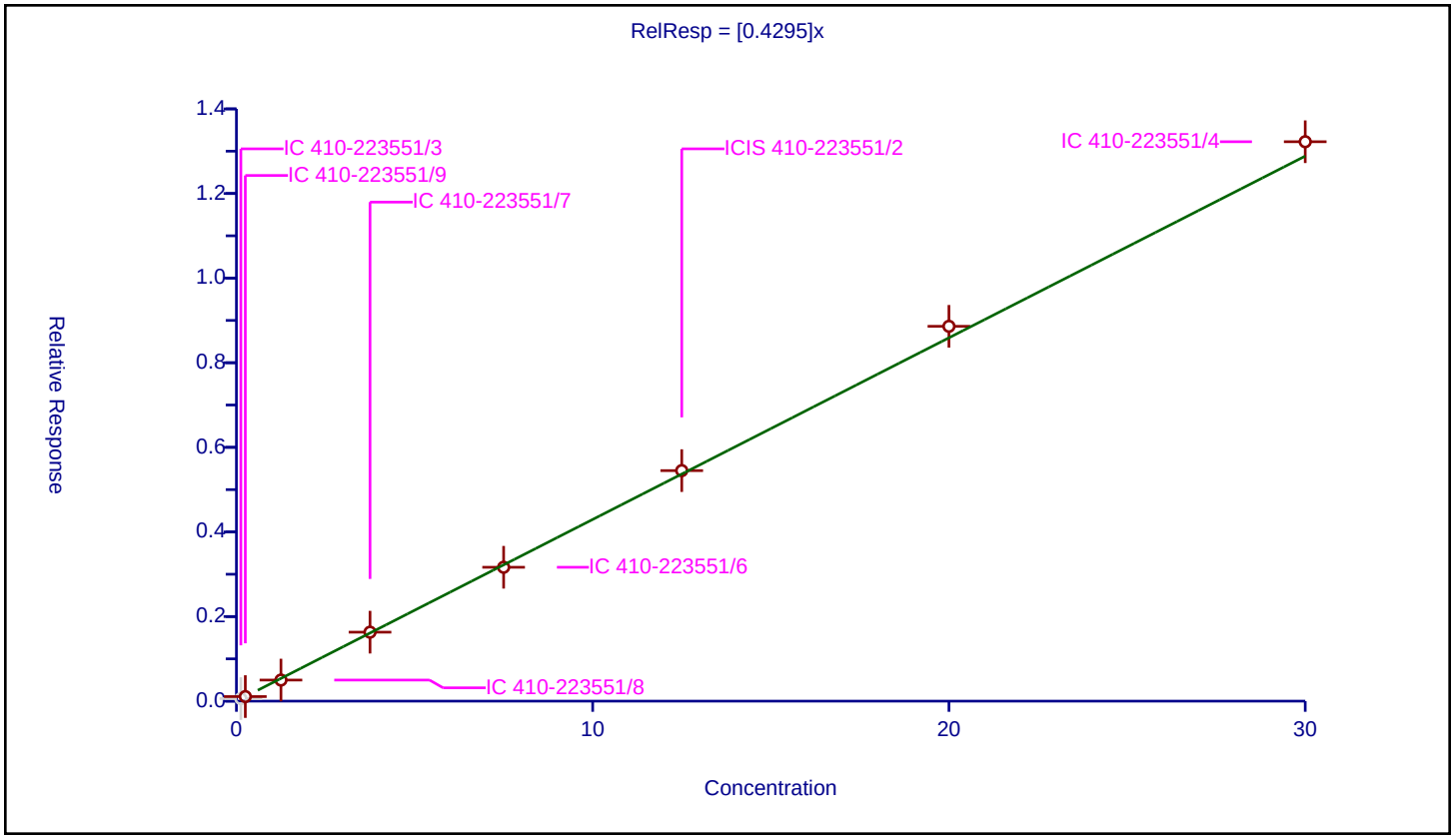
Curve Coefficients

Intercept:	0
Slope:	0.4295

Error Coefficients

Standard Error:	1040000
Relative Standard Error:	3.5
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.060311	5.0	638441.0	0.482488	N
2	IC 410-223551/9	0.25	0.107787	5.0	653323.0	0.43115	Y
3	IC 410-223551/8	1.25	0.498242	5.0	656428.0	0.398594	Y
4	IC 410-223551/7	3.75	1.63012	5.0	642508.0	0.434699	Y
5	IC 410-223551/6	7.5	3.164704	5.0	890630.0	0.42196	Y
6	ICIS 410-223551/2	12.5	5.449731	5.0	788982.0	0.435979	Y
7	IC 410-223551/5	20.0	8.860386	5.0	712114.0	0.443019	Y
8	IC 410-223551/4	30.0	13.223722	5.0	738564.0	0.440791	Y



Calibration / o,o',o''-Triethylphosphorothioate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

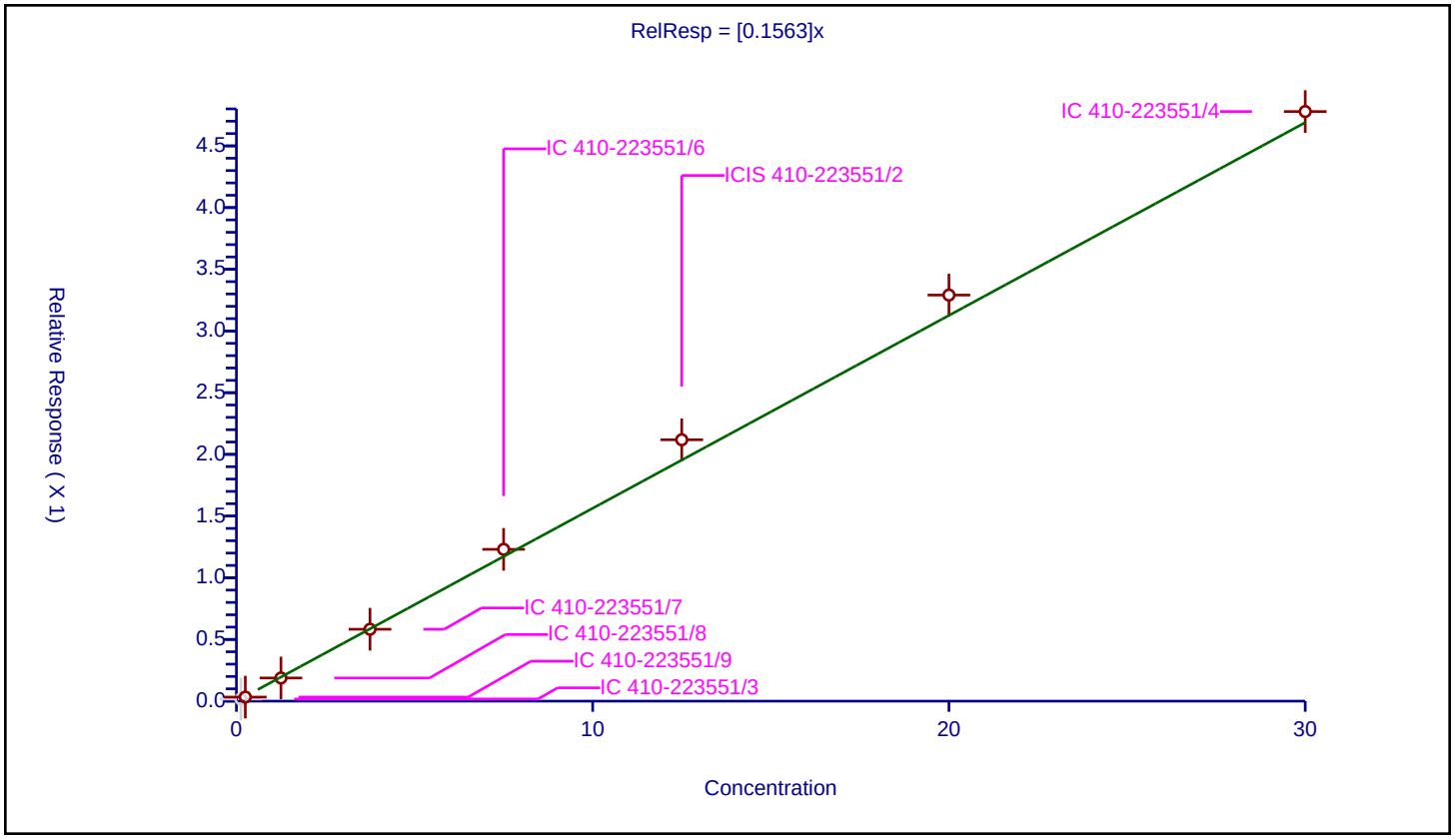
Curve Coefficients

Intercept:	0
Slope:	0.1563

Error Coefficients

Standard Error:	384000
Relative Standard Error:	8.2
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.017402	5.0	638441.0	0.139214	N
2	IC 410-223551/9	0.25	0.032817	5.0	653323.0	0.131267	Y
3	IC 410-223551/8	1.25	0.18769	5.0	656428.0	0.150152	Y
4	IC 410-223551/7	3.75	0.582709	5.0	642508.0	0.155389	Y
5	IC 410-223551/6	7.5	1.230197	5.0	890630.0	0.164026	Y
6	ICIS 410-223551/2	12.5	2.118369	5.0	788982.0	0.16947	Y
7	IC 410-223551/5	20.0	3.291201	5.0	712114.0	0.16456	Y
8	IC 410-223551/4	30.0	4.778476	5.0	738564.0	0.159283	Y



Calibration / Bis(2-chloroethoxy)methane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

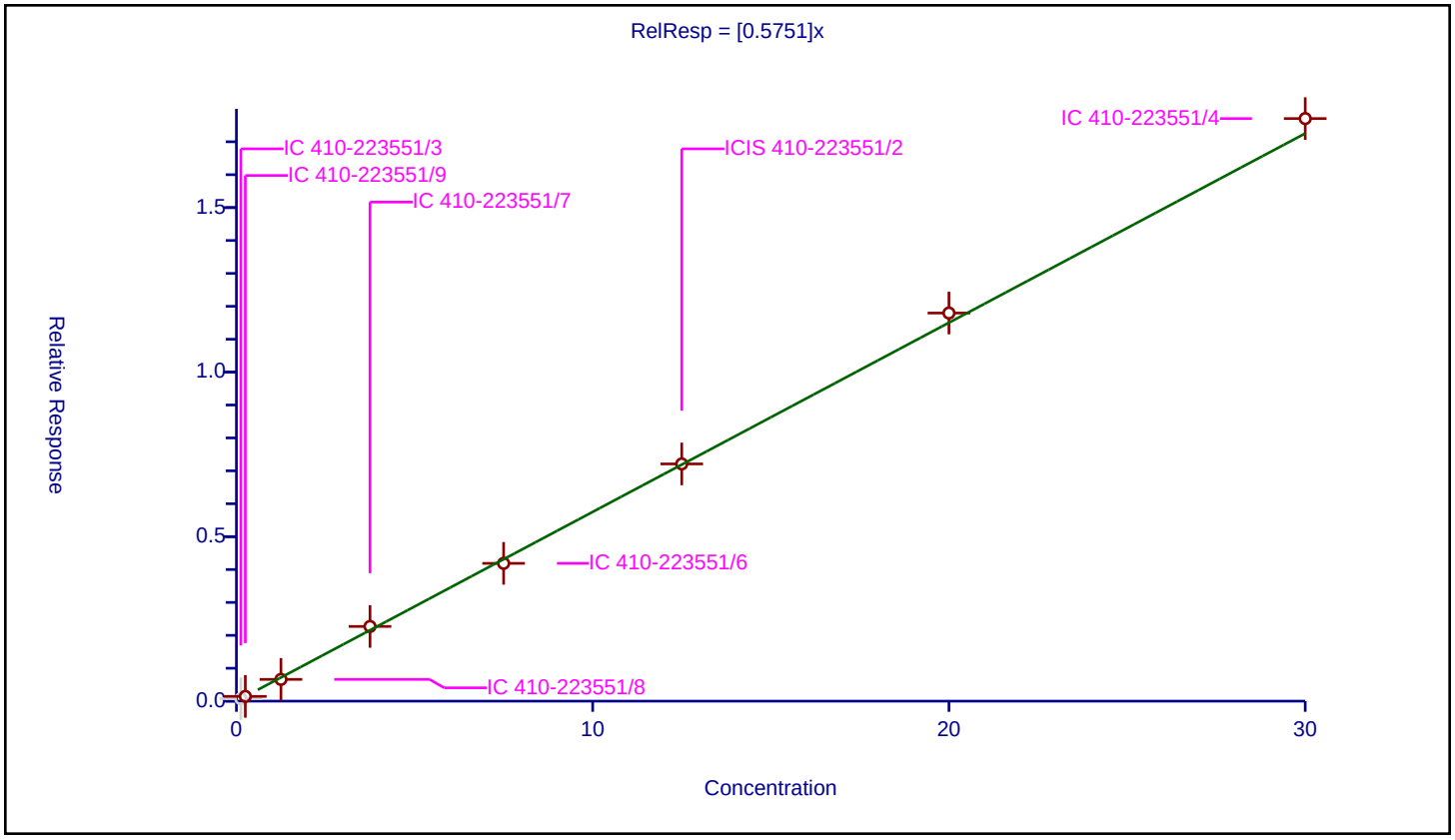
Curve Coefficients

Intercept:	0
Slope:	0.5751

Error Coefficients

Standard Error:	1390000
Relative Standard Error:	4.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.073805	5.0	638441.0	0.590438	N
2	IC 410-223551/9	0.25	0.144178	5.0	653323.0	0.576713	Y
3	IC 410-223551/8	1.25	0.660705	5.0	656428.0	0.528564	Y
4	IC 410-223551/7	3.75	2.270361	5.0	642508.0	0.60543	Y
5	IC 410-223551/6	7.5	4.188013	5.0	890630.0	0.558402	Y
6	ICIS 410-223551/2	12.5	7.209474	5.0	788982.0	0.576758	Y
7	IC 410-223551/5	20.0	11.795134	5.0	712114.0	0.589757	Y
8	IC 410-223551/4	30.0	17.70525	5.0	738564.0	0.590175	Y



Calibration / 2,4-Dichlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

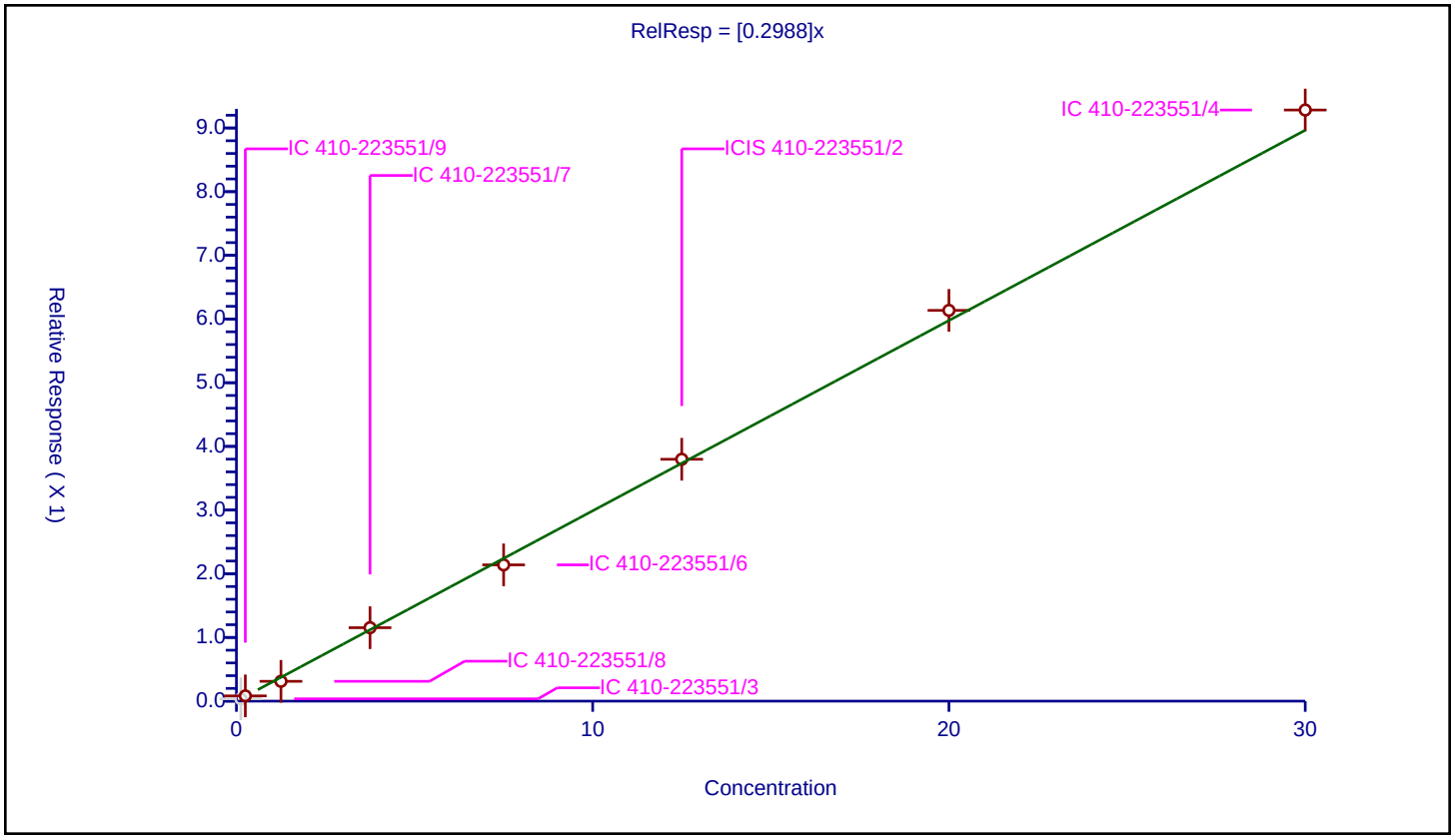
Curve Coefficients

Intercept:	0
Slope:	0.2988

Error Coefficients

Standard Error:	727000
Relative Standard Error:	8.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.036472	5.0	638441.0	0.291773	N
2	IC 410-223551/9	0.25	0.082517	5.0	653323.0	0.330066	Y
3	IC 410-223551/8	1.25	0.311237	5.0	656428.0	0.24899	Y
4	IC 410-223551/7	3.75	1.153075	5.0	642508.0	0.307487	Y
5	IC 410-223551/6	7.5	2.139822	5.0	890630.0	0.28531	Y
6	ICIS 410-223551/2	12.5	3.798224	5.0	788982.0	0.303858	Y
7	IC 410-223551/5	20.0	6.135893	5.0	712114.0	0.306795	Y
8	IC 410-223551/4	30.0	9.2825	5.0	738564.0	0.309417	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

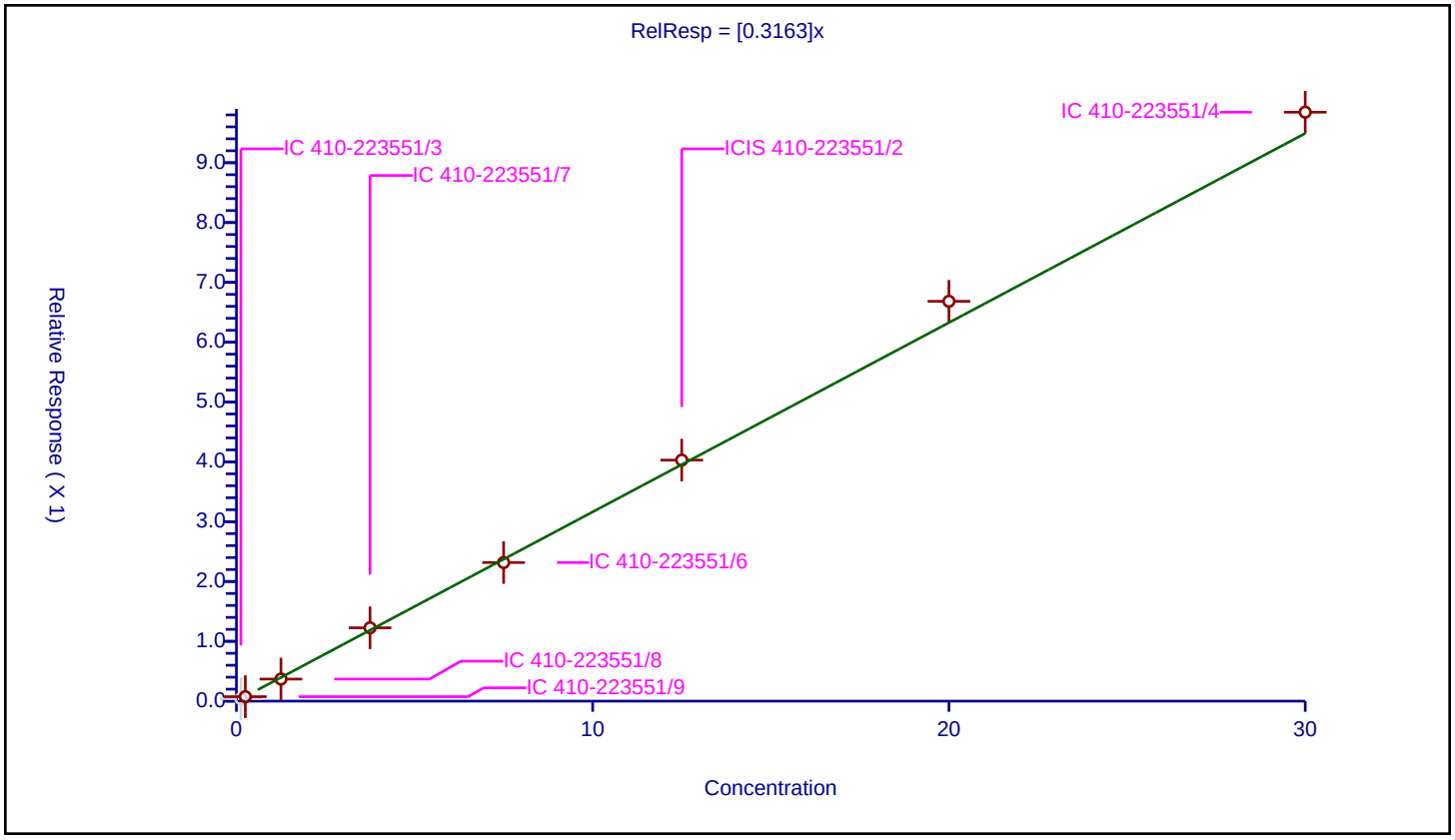
Curve Coefficients

Intercept:	0
Slope:	0.3163

Error Coefficients

Standard Error:	777000
Relative Standard Error:	4.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.041343	5.0	638441.0	0.330743	N
2	IC 410-223551/9	0.25	0.07468	5.0	653323.0	0.298719	Y
3	IC 410-223551/8	1.25	0.368898	5.0	656428.0	0.295118	Y
4	IC 410-223551/7	3.75	1.226094	5.0	642508.0	0.326958	Y
5	IC 410-223551/6	7.5	2.316927	5.0	890630.0	0.308924	Y
6	ICIS 410-223551/2	12.5	4.029262	5.0	788982.0	0.322341	Y
7	IC 410-223551/5	20.0	6.683698	5.0	712114.0	0.334185	Y
8	IC 410-223551/4	30.0	9.845037	5.0	738564.0	0.328168	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

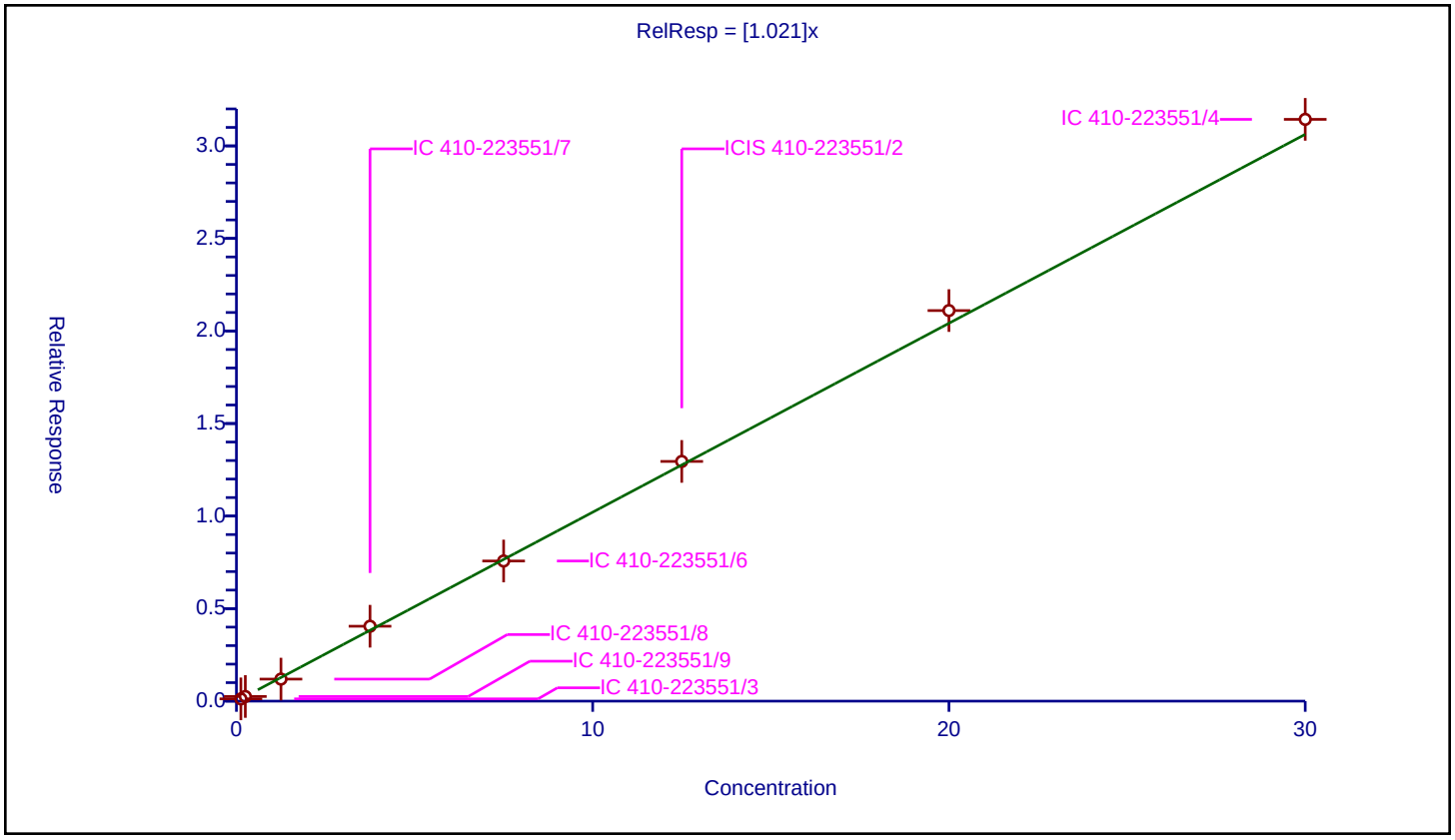
Curve Coefficients

Intercept:	0
Slope:	1.021

Error Coefficients

Standard Error:	2300000
Relative Standard Error:	4.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.123058	5.0	638441.0	0.984461	Y
2	IC 410-223551/9	0.25	0.250466	5.0	653323.0	1.001863	Y
3	IC 410-223551/8	1.25	1.19045	5.0	656428.0	0.95236	Y
4	IC 410-223551/7	3.75	4.047031	5.0	642508.0	1.079208	Y
5	IC 410-223551/6	7.5	7.572202	5.0	890630.0	1.009627	Y
6	ICIS 410-223551/2	12.5	12.952298	5.0	788982.0	1.036184	Y
7	IC 410-223551/5	20.0	21.103665	5.0	712114.0	1.055183	Y
8	IC 410-223551/4	30.0	31.433931	5.0	738564.0	1.047798	Y



Calibration / Alpha-Terpineol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

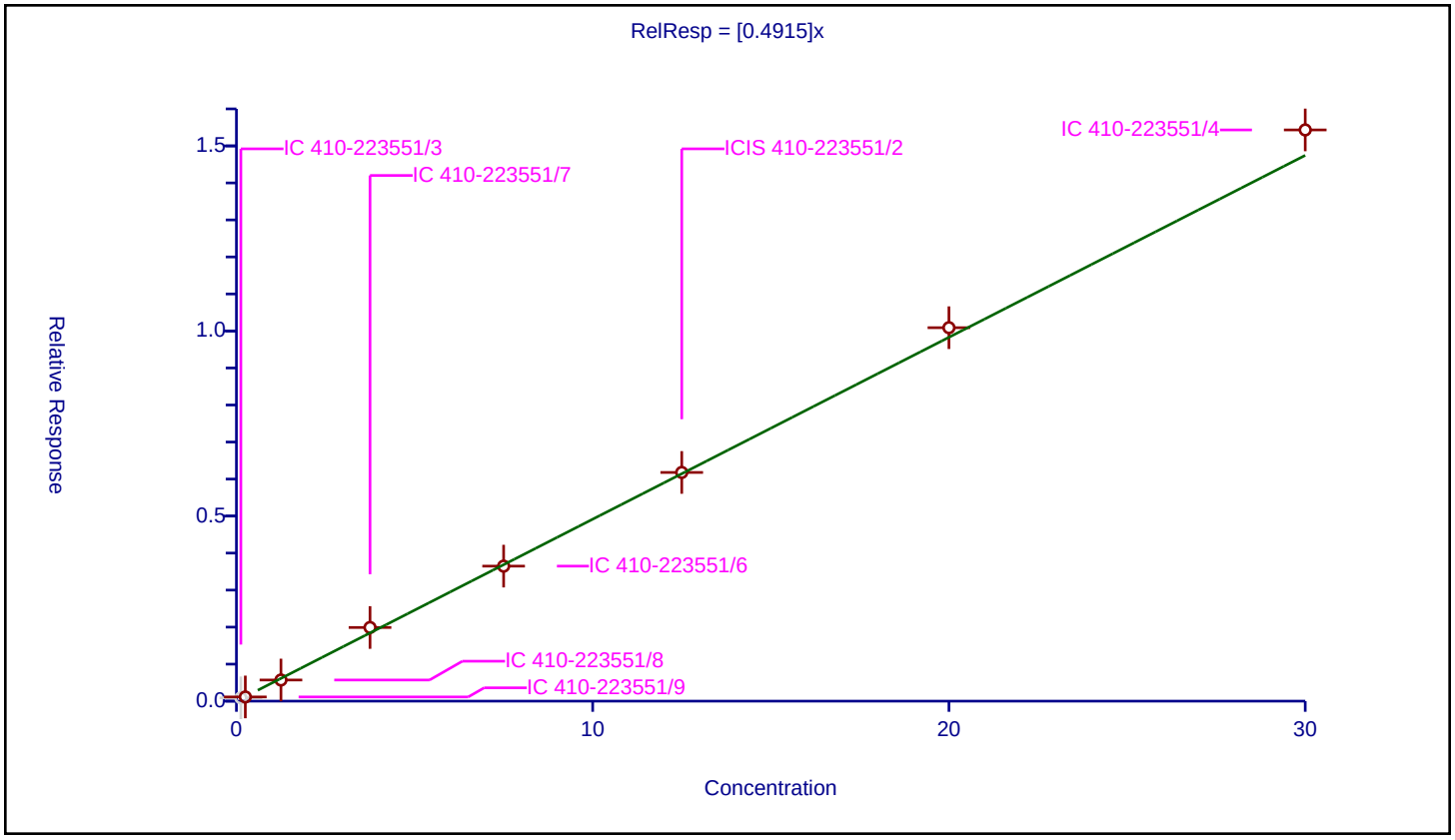
Curve Coefficients

Intercept:	0
Slope:	0.4915

Error Coefficients

Standard Error:	1200000
Relative Standard Error:	5.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.089241	5.0	638441.0	0.713927	N
2	IC 410-223551/9	0.25	0.113428	5.0	653323.0	0.453711	Y
3	IC 410-223551/8	1.25	0.570824	5.0	656428.0	0.456659	Y
4	IC 410-223551/7	3.75	1.98968	5.0	642508.0	0.530581	Y
5	IC 410-223551/6	7.5	3.647334	5.0	890630.0	0.486311	Y
6	ICIS 410-223551/2	12.5	6.178088	5.0	788982.0	0.494247	Y
7	IC 410-223551/5	20.0	10.088708	5.0	712114.0	0.504435	Y
8	IC 410-223551/4	30.0	15.431439	5.0	738564.0	0.514381	Y



Calibration / 4-Chloroaniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

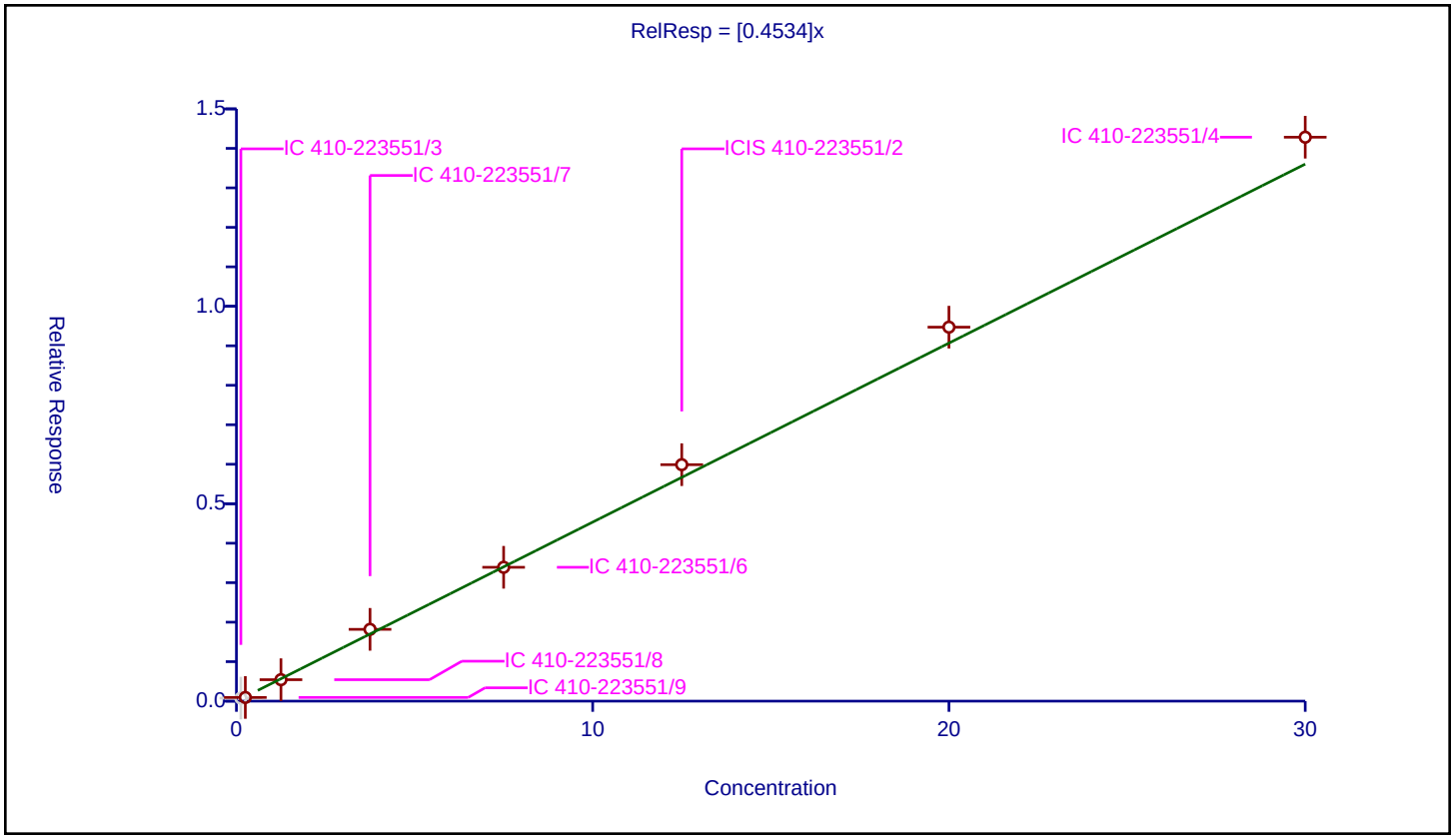
Curve Coefficients

Intercept:	0
Slope:	0.4534

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	8.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.076287	5.0	638441.0	0.610299	N
2	IC 410-223551/9	0.25	0.093323	5.0	653323.0	0.373292	Y
3	IC 410-223551/8	1.25	0.543472	5.0	656428.0	0.434777	Y
4	IC 410-223551/7	3.75	1.81839	5.0	642508.0	0.484904	Y
5	IC 410-223551/6	7.5	3.389735	5.0	890630.0	0.451965	Y
6	ICIS 410-223551/2	12.5	5.989199	5.0	788982.0	0.479136	Y
7	IC 410-223551/5	20.0	9.471665	5.0	712114.0	0.473583	Y
8	IC 410-223551/4	30.0	14.283129	5.0	738564.0	0.476104	Y



Calibration / 2,6-Dichlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

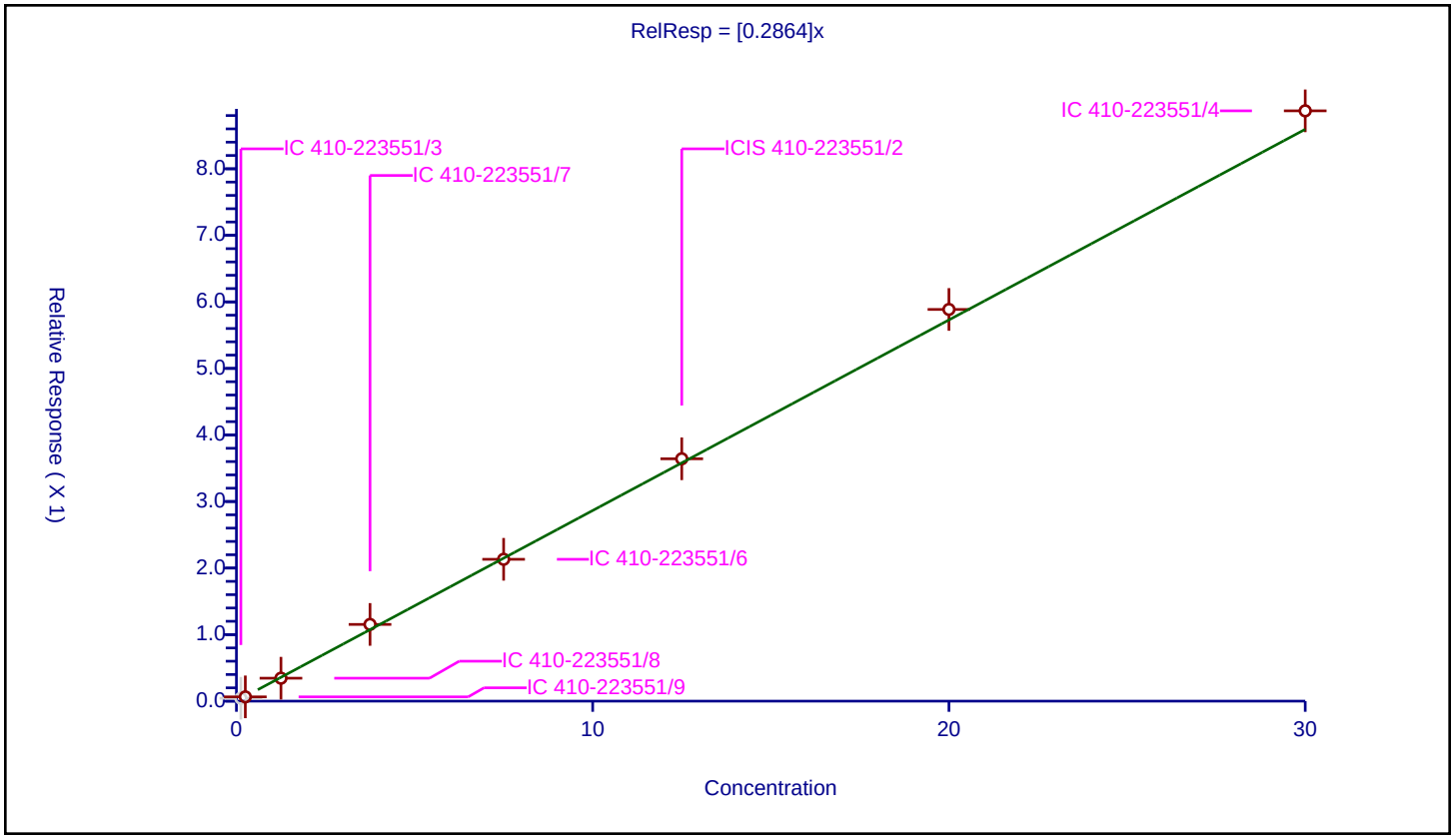
Curve Coefficients

Intercept:	0
Slope:	0.2864

Error Coefficients

Standard Error:	697000
Relative Standard Error:	5.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.043575	5.0	638441.0	0.348599	N
2	IC 410-223551/9	0.25	0.064057	5.0	653323.0	0.256229	Y
3	IC 410-223551/8	1.25	0.34476	5.0	656428.0	0.275808	Y
4	IC 410-223551/7	3.75	1.153044	5.0	642508.0	0.307478	Y
5	IC 410-223551/6	7.5	2.131553	5.0	890630.0	0.284207	Y
6	ICIS 410-223551/2	12.5	3.641851	5.0	788982.0	0.291348	Y
7	IC 410-223551/5	20.0	5.886277	5.0	712114.0	0.294314	Y
8	IC 410-223551/4	30.0	8.870653	5.0	738564.0	0.295688	Y



Calibration / Hexachloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

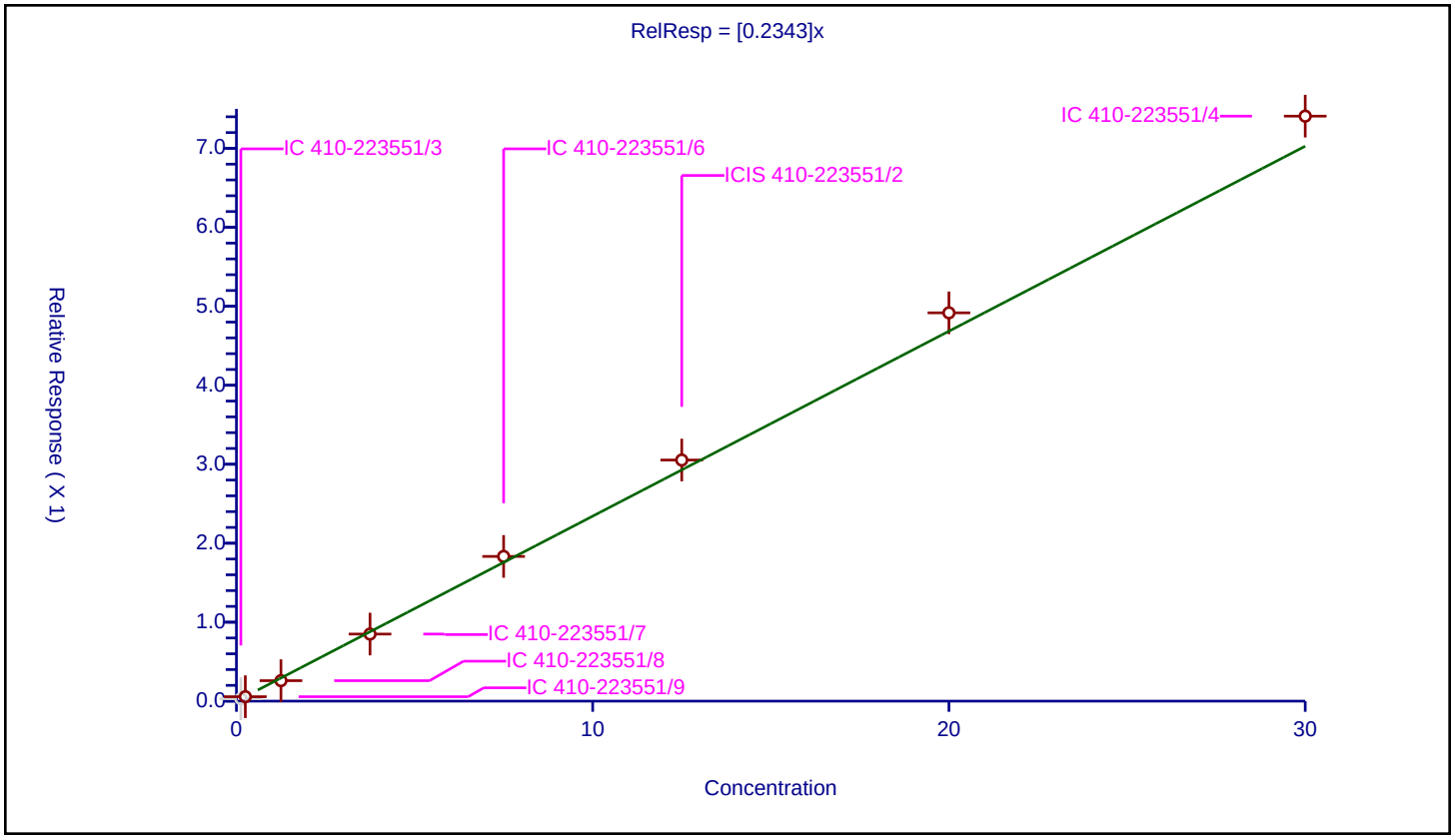
Curve Coefficients

Intercept:	0
Slope:	0.2343

Error Coefficients

Standard Error:	583000
Relative Standard Error:	6.5
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.030621	5.0	638441.0	0.244972	N
2	IC 410-223551/9	0.25	0.056113	5.0	653323.0	0.224453	Y
3	IC 410-223551/8	1.25	0.259282	5.0	656428.0	0.207426	Y
4	IC 410-223551/7	3.75	0.849406	5.0	642508.0	0.226508	Y
5	IC 410-223551/6	7.5	1.83254	5.0	890630.0	0.244339	Y
6	ICIS 410-223551/2	12.5	3.053162	5.0	788982.0	0.244253	Y
7	IC 410-223551/5	20.0	4.917583	5.0	712114.0	0.245879	Y
8	IC 410-223551/4	30.0	7.40841	5.0	738564.0	0.246947	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

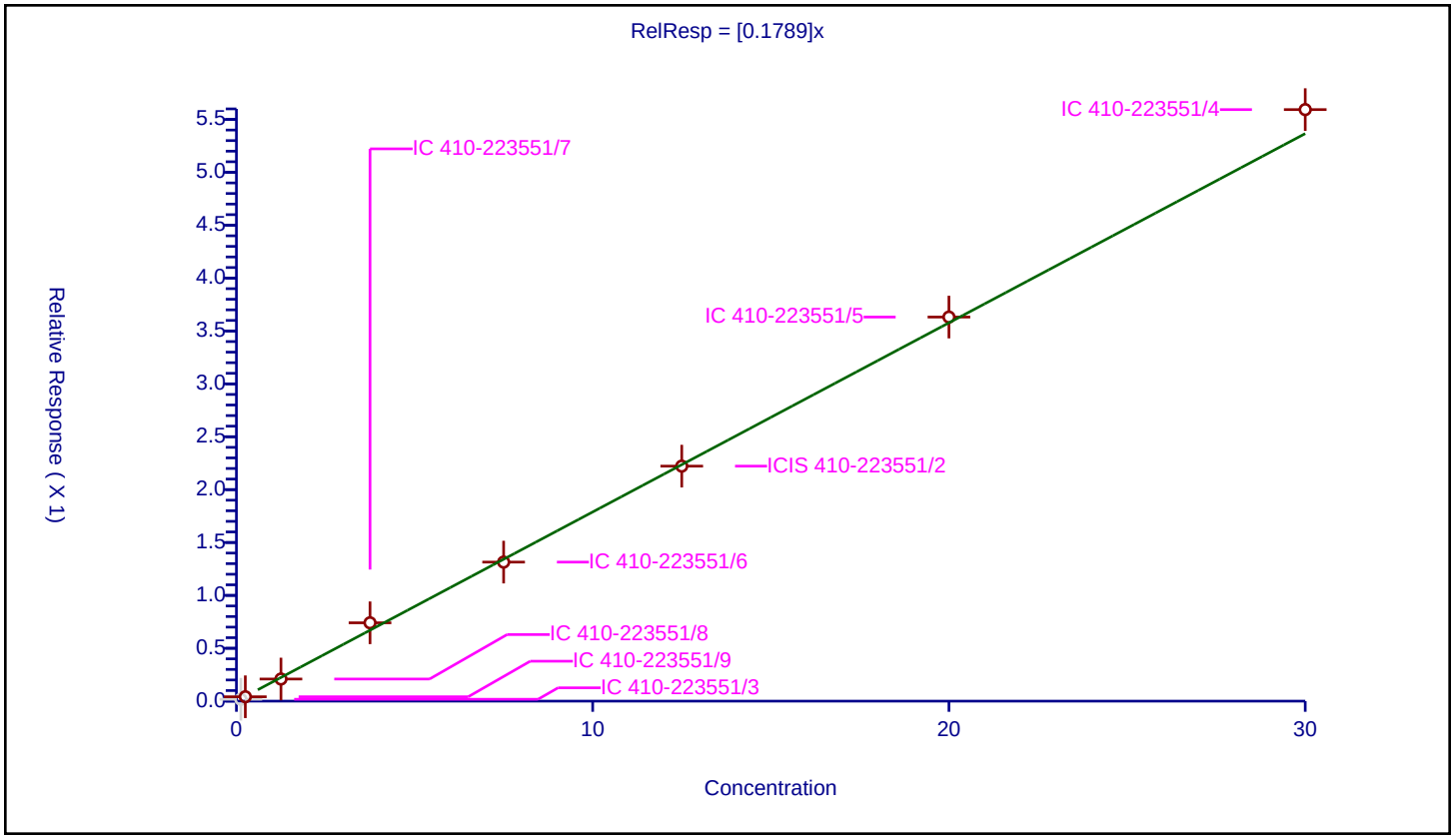
Curve Coefficients

Intercept:	0
Slope:	0.1789

Error Coefficients

Standard Error:	435000
Relative Standard Error:	6.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.017762	5.0	638441.0	0.142096	N
2	IC 410-223551/9	0.25	0.041549	5.0	653323.0	0.166197	Y
3	IC 410-223551/8	1.25	0.209094	5.0	656428.0	0.167275	Y
4	IC 410-223551/7	3.75	0.740823	5.0	642508.0	0.197553	Y
5	IC 410-223551/6	7.5	1.314738	5.0	890630.0	0.175298	Y
6	ICIS 410-223551/2	12.5	2.222212	5.0	788982.0	0.177777	Y
7	IC 410-223551/5	20.0	3.631701	5.0	712114.0	0.181585	Y
8	IC 410-223551/4	30.0	5.593104	5.0	738564.0	0.186437	Y



Calibration / Quinoline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

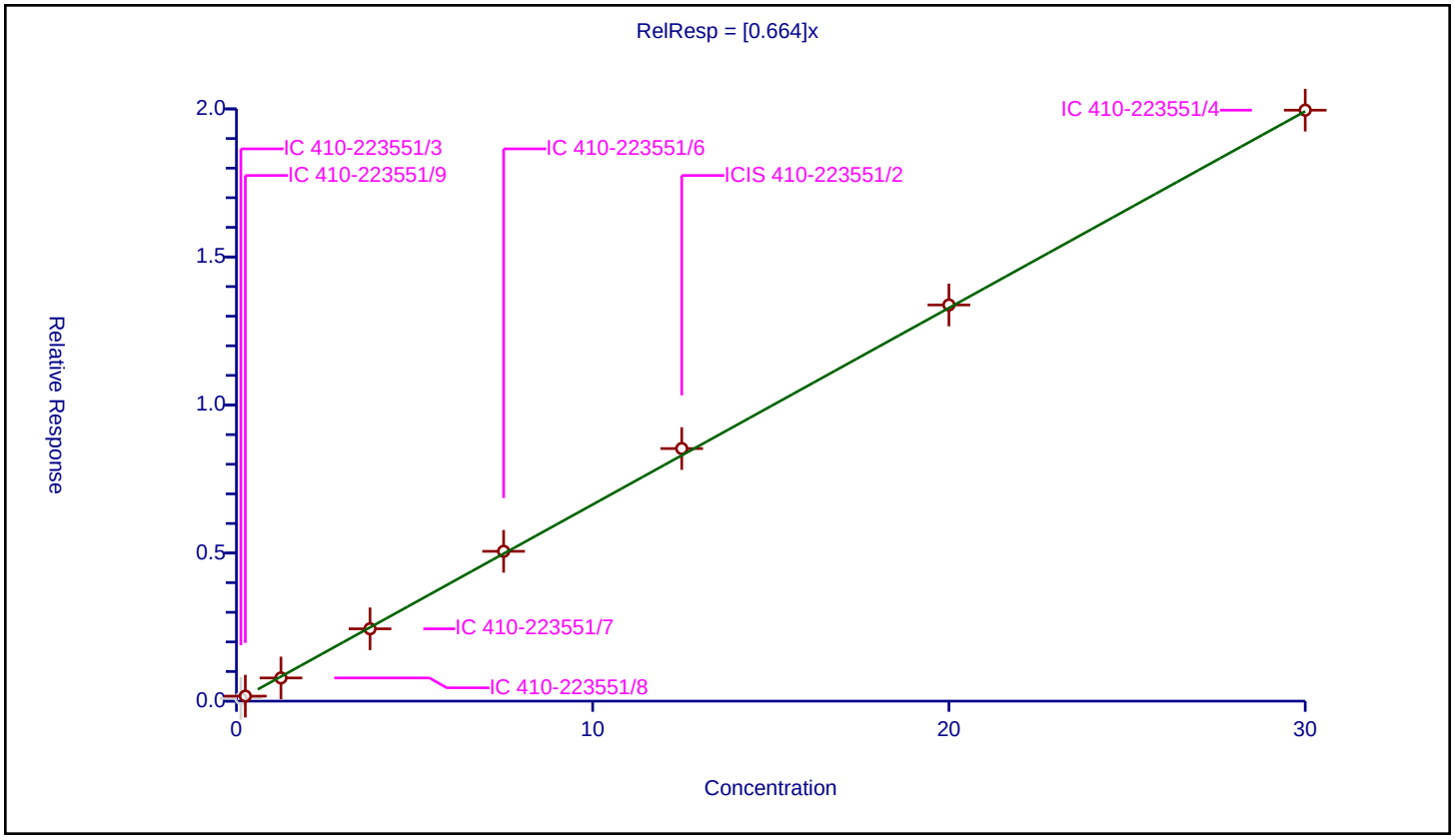
Curve Coefficients

Intercept:	0
Slope:	0.664

Error Coefficients

Standard Error:	1580000
Relative Standard Error:	2.9
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.092217	5.0	638441.0	0.737735	N
2	IC 410-223551/9	0.25	0.169725	5.0	653323.0	0.678898	Y
3	IC 410-223551/8	1.25	0.782927	5.0	656428.0	0.626341	Y
4	IC 410-223551/7	3.75	2.44267	5.0	642508.0	0.651379	Y
5	IC 410-223551/6	7.5	5.059795	5.0	890630.0	0.674639	Y
6	ICIS 410-223551/2	12.5	8.52965	5.0	788982.0	0.682372	Y
7	IC 410-223551/5	20.0	13.379438	5.0	712114.0	0.668972	Y
8	IC 410-223551/4	30.0	19.95716	5.0	738564.0	0.665239	Y



Calibration / Caprolactam

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

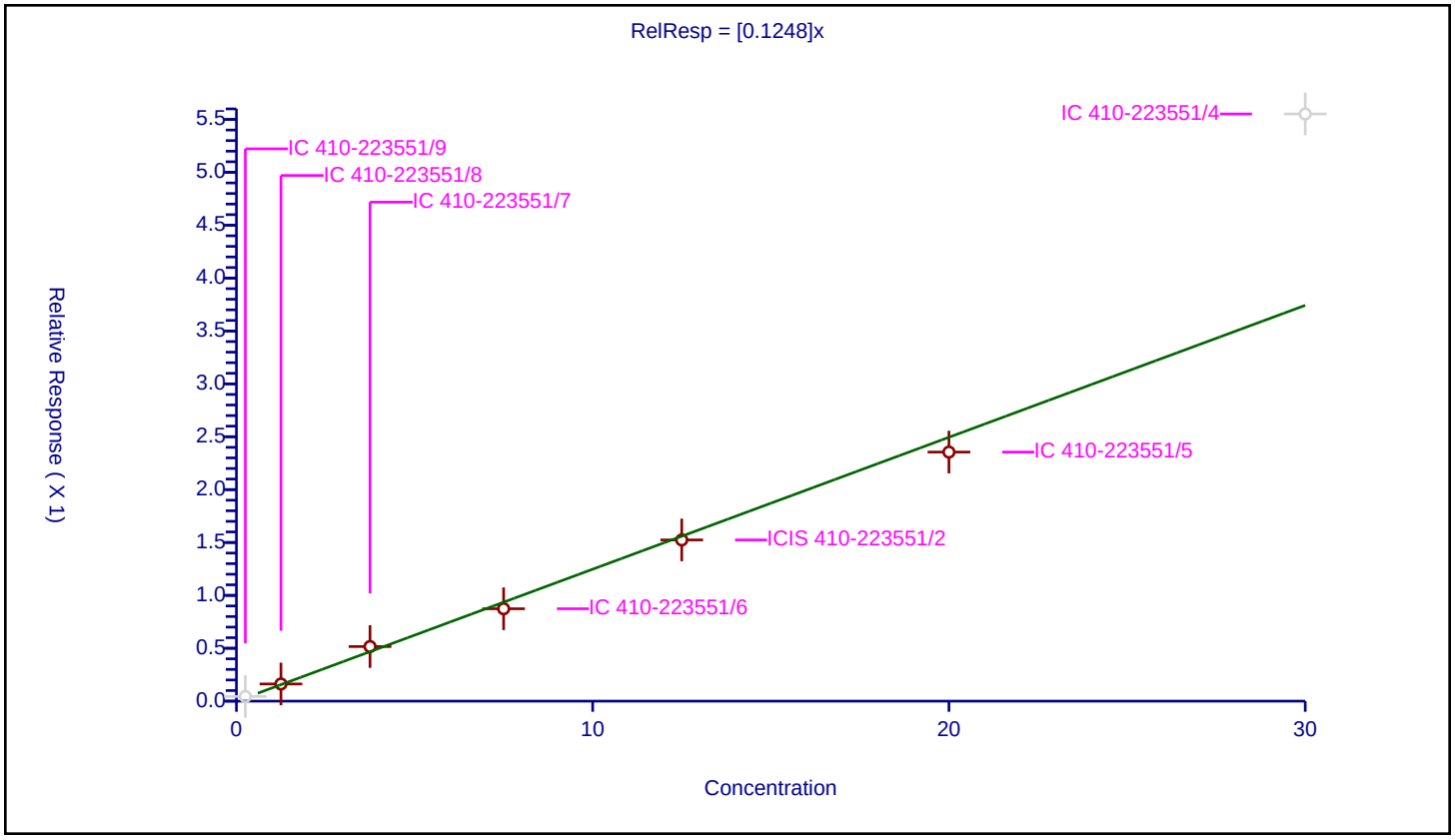
Curve Coefficients

Intercept:	0
Slope:	0.1248

Error Coefficients

Standard Error:	223000
Relative Standard Error:	7.2
Correlation Coefficient:	0.984
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/9	0.25	0.044121	5.0	653323.0	0.176482	N
2	IC 410-223551/8	1.25	0.162432	5.0	656428.0	0.129946	Y
3	IC 410-223551/7	3.75	0.516266	5.0	642508.0	0.137671	Y
4	IC 410-223551/6	7.5	0.873415	5.0	890630.0	0.116455	Y
5	ICIS 410-223551/2	12.5	1.524192	5.0	788982.0	0.121935	Y
6	IC 410-223551/5	20.0	2.354939	5.0	712114.0	0.117747	Y
7	IC 410-223551/4	30.0	5.5522	5.0	738564.0	0.185073	N



Calibration / N-Nitrosodi-n-butylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

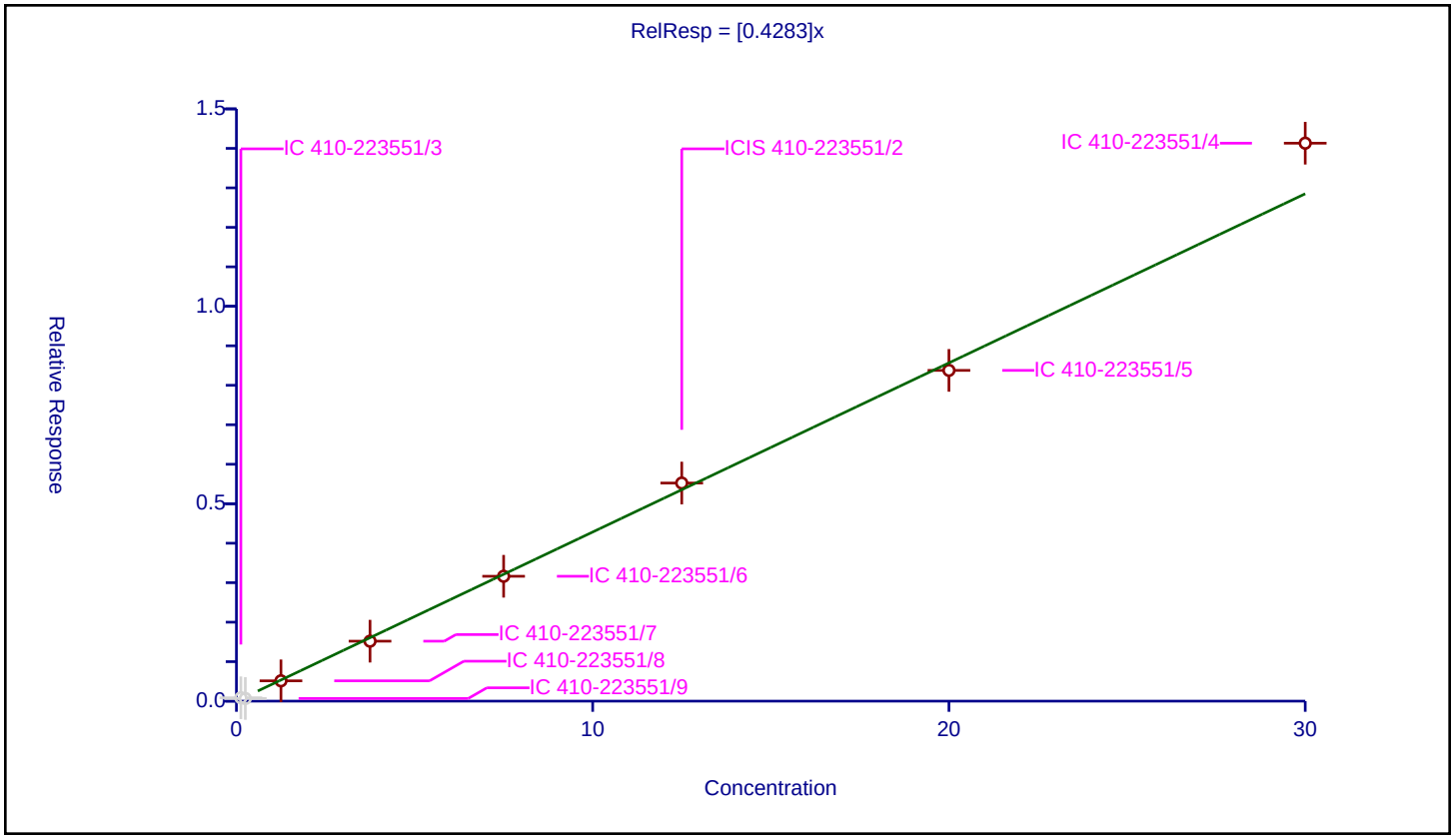
Curve Coefficients

Intercept:	0
Slope:	0.4283

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	5.7
Correlation Coefficient:	0.987
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.085137	5.0	638441.0	0.681097	N
2	IC 410-223551/9	0.25	0.067164	5.0	653323.0	0.268657	N
3	IC 410-223551/8	1.25	0.514413	5.0	656428.0	0.41153	Y
4	IC 410-223551/7	3.75	1.518744	5.0	642508.0	0.404998	Y
5	IC 410-223551/6	7.5	3.162924	5.0	890630.0	0.421723	Y
6	ICIS 410-223551/2	12.5	5.523497	5.0	788982.0	0.44188	Y
7	IC 410-223551/5	20.0	8.377226	5.0	712114.0	0.418861	Y
8	IC 410-223551/4	30.0	14.131348	5.0	738564.0	0.471045	Y



Calibration / p-Phenylene diamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

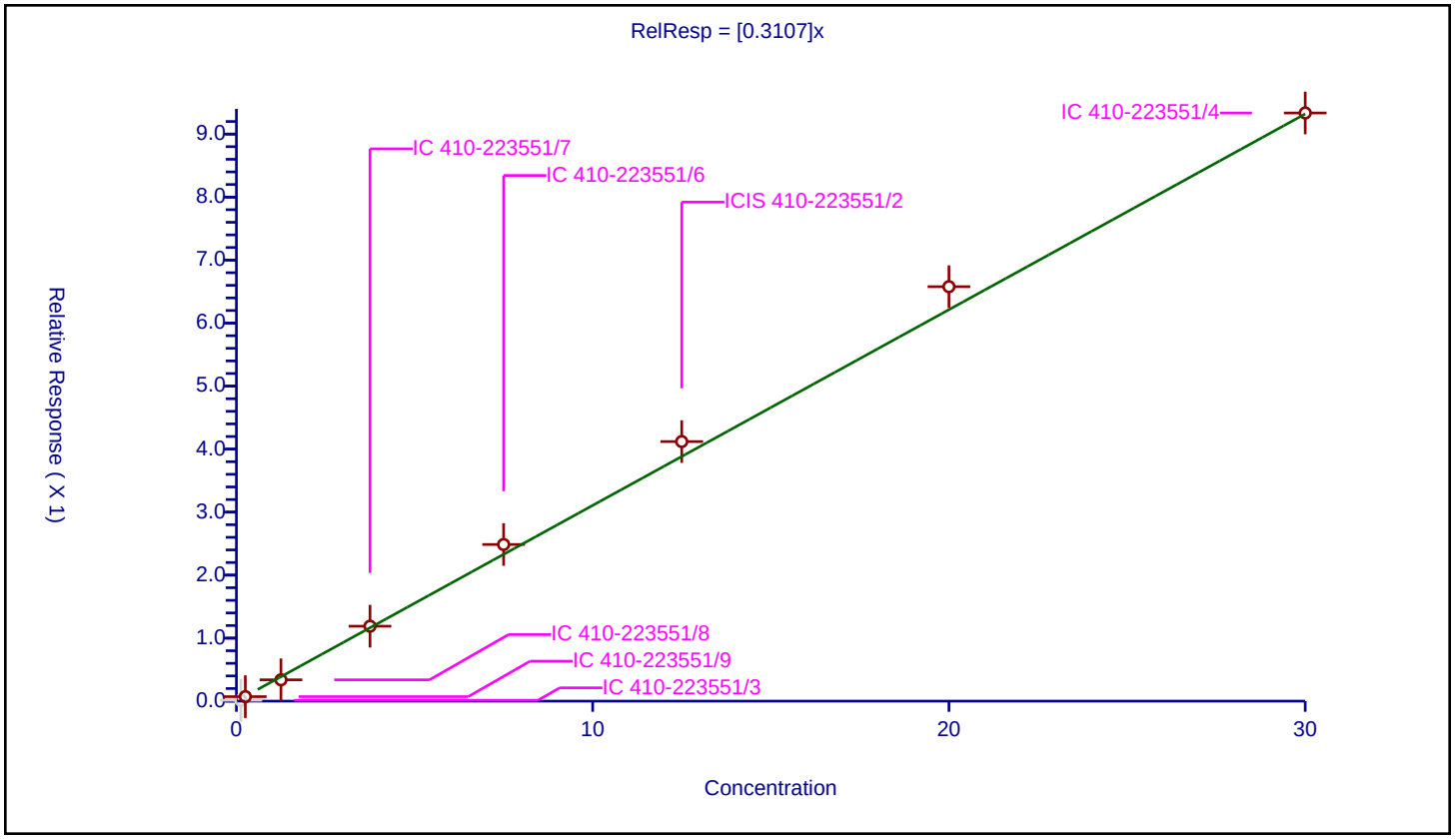
Curve Coefficients

Intercept:	0
Slope:	0.3107

Error Coefficients

Standard Error:	755000
Relative Standard Error:	7.7
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.014324	5.0	638441.0	0.114592	N
2	IC 410-223551/9	0.25	0.071427	5.0	653323.0	0.285709	Y
3	IC 410-223551/8	1.25	0.338285	5.0	656428.0	0.270628	Y
4	IC 410-223551/7	3.75	1.189425	5.0	642508.0	0.31718	Y
5	IC 410-223551/6	7.5	2.486195	5.0	890630.0	0.331493	Y
6	ICIS 410-223551/2	12.5	4.119707	5.0	788982.0	0.329577	Y
7	IC 410-223551/5	20.0	6.578244	5.0	712114.0	0.328912	Y
8	IC 410-223551/4	30.0	9.334865	5.0	738564.0	0.311162	Y



Calibration / 4-Chloro-3-methylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

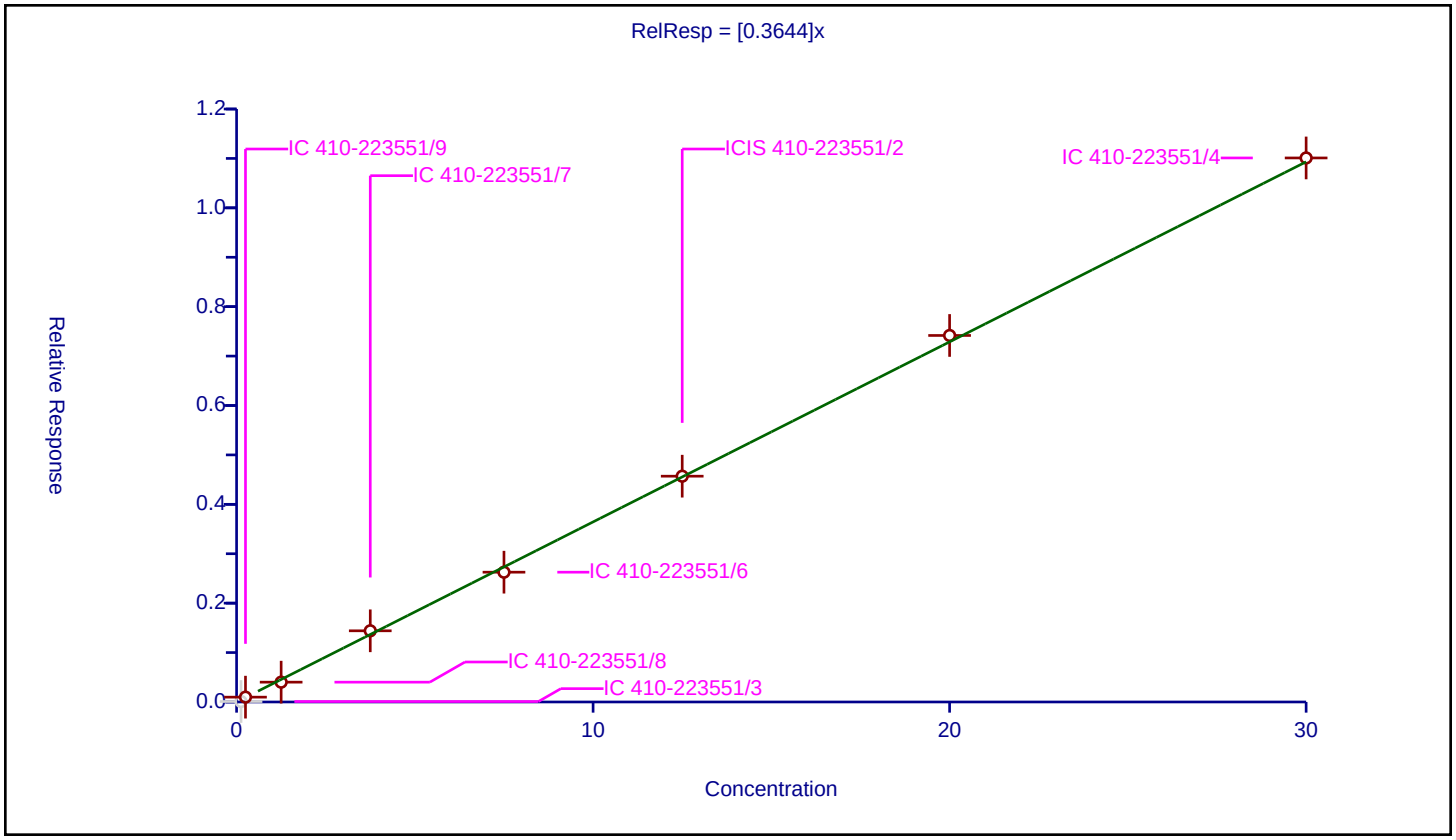
Curve Coefficients

Intercept:	0
Slope:	0.3644

Error Coefficients

Standard Error:	870000
Relative Standard Error:	6.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.009382	5.0	638441.0	0.075058	N
2	IC 410-223551/9	0.25	0.097991	5.0	653323.0	0.391965	Y
3	IC 410-223551/8	1.25	0.401095	5.0	656428.0	0.320876	Y
4	IC 410-223551/7	3.75	1.440714	5.0	642508.0	0.38419	Y
5	IC 410-223551/6	7.5	2.626961	5.0	890630.0	0.350261	Y
6	ICIS 410-223551/2	12.5	4.569318	5.0	788982.0	0.365545	Y
7	IC 410-223551/5	20.0	7.417282	5.0	712114.0	0.370864	Y
8	IC 410-223551/4	30.0	11.009628	5.0	738564.0	0.366988	Y



Calibration / Safrole, Total

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

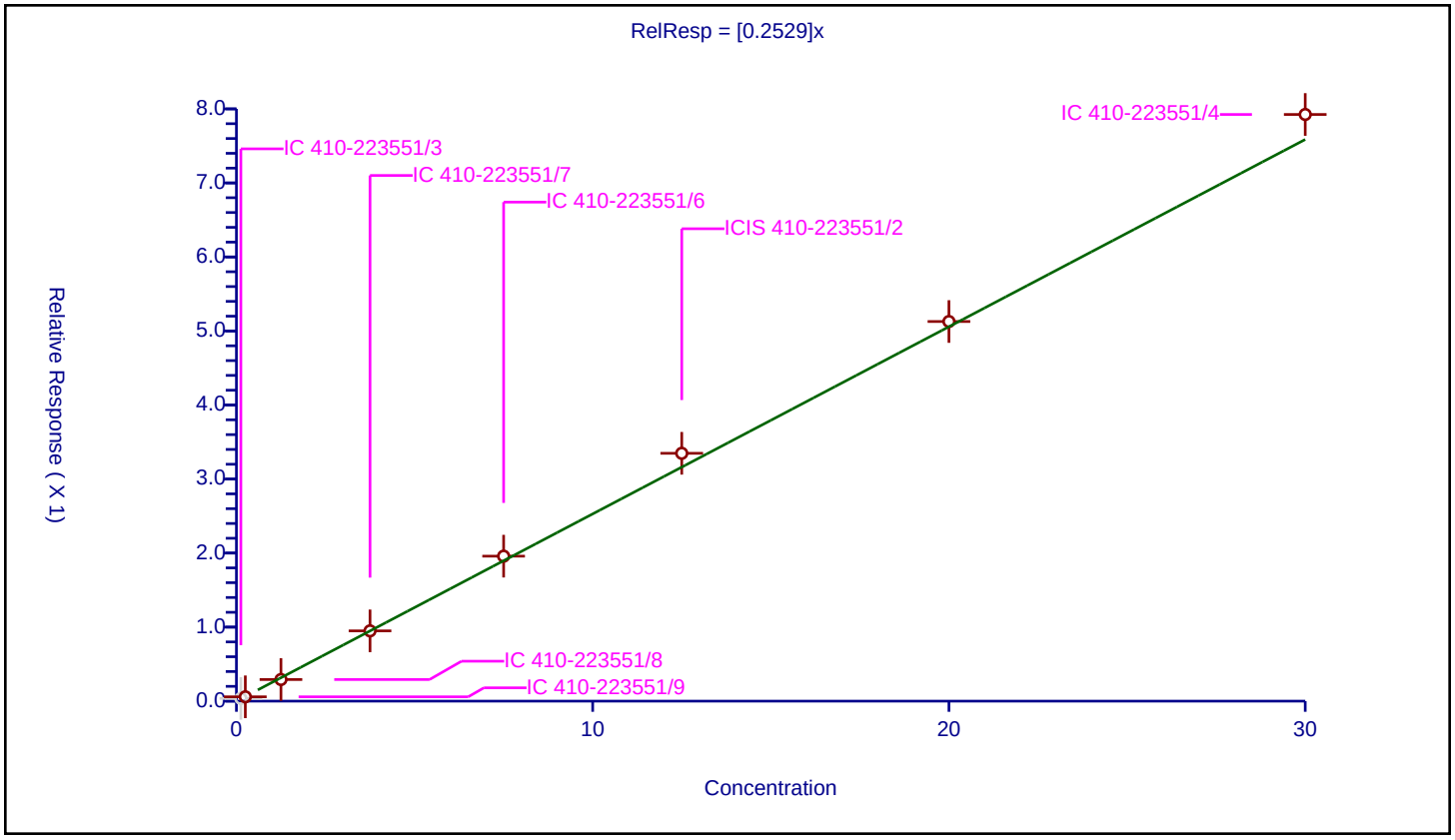
Curve Coefficients

Intercept:	0
Slope:	0.2529

Error Coefficients

Standard Error:	622000
Relative Standard Error:	5.5
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.036746	5.0	638441.0	0.293966	N
2	IC 410-223551/9	0.25	0.05847	5.0	653323.0	0.233881	Y
3	IC 410-223551/8	1.25	0.292096	5.0	656428.0	0.233677	Y
4	IC 410-223551/7	3.75	0.949381	5.0	642508.0	0.253168	Y
5	IC 410-223551/6	7.5	1.958411	5.0	890630.0	0.261122	Y
6	ICIS 410-223551/2	12.5	3.347738	5.0	788982.0	0.267819	Y
7	IC 410-223551/5	20.0	5.128112	5.0	712114.0	0.256406	Y
8	IC 410-223551/4	30.0	7.924344	5.0	738564.0	0.264145	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

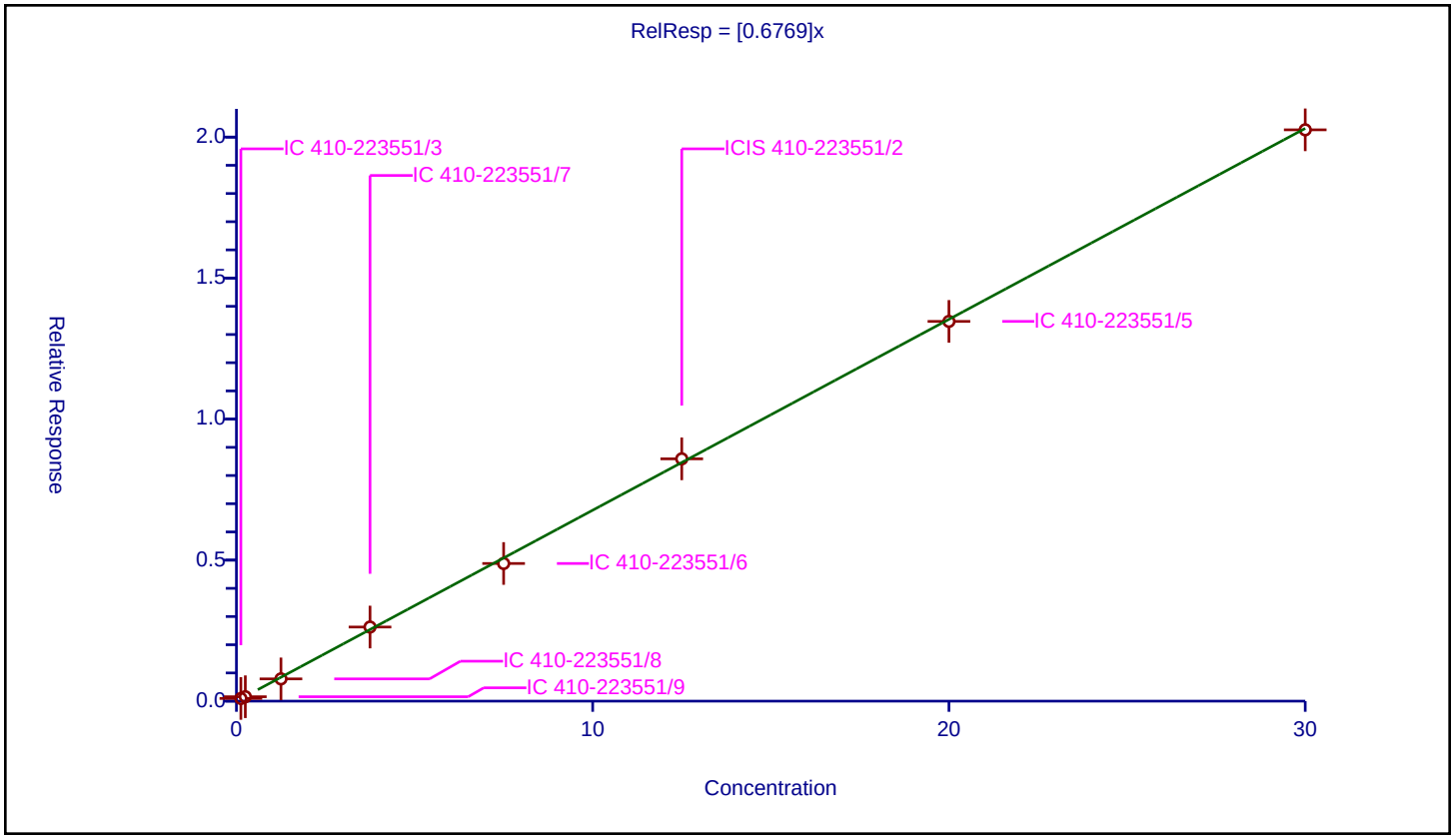
Curve Coefficients

Intercept:	0
Slope:	0.6769

Error Coefficients

Standard Error:	1480000
Relative Standard Error:	6.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.096281	5.0	638441.0	0.770251	Y
2	IC 410-223551/9	0.25	0.156576	5.0	653323.0	0.626306	Y
3	IC 410-223551/8	1.25	0.78918	5.0	656428.0	0.631344	Y
4	IC 410-223551/7	3.75	2.6281	5.0	642508.0	0.700827	Y
5	IC 410-223551/6	7.5	4.880966	5.0	890630.0	0.650796	Y
6	ICIS 410-223551/2	12.5	8.591267	5.0	788982.0	0.687301	Y
7	IC 410-223551/5	20.0	13.464831	5.0	712114.0	0.673242	Y
8	IC 410-223551/4	30.0	20.257297	5.0	738564.0	0.675243	Y



Calibration / Isosafrole Peak 1

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

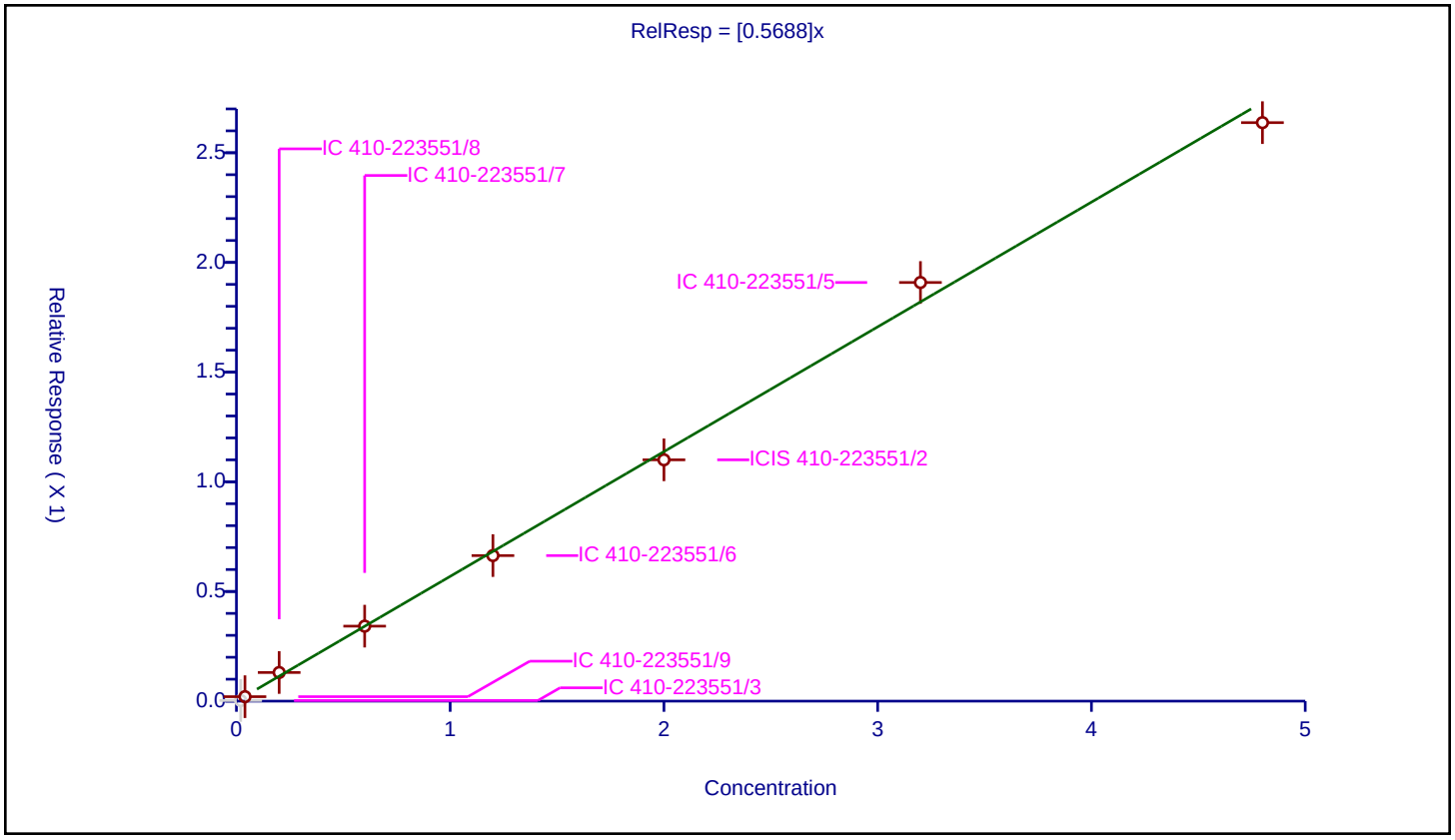
Curve Coefficients

Intercept:	0
Slope:	0.5688

Error Coefficients

Standard Error:	110000
Relative Standard Error:	8.0
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.02	0.002891	5.0	359794.0	0.144527	N
2	IC 410-223551/9	0.04	0.020373	5.0	357336.0	0.509325	Y
3	IC 410-223551/8	0.2	0.130635	5.0	352164.0	0.653176	Y
4	IC 410-223551/7	0.6	0.341911	5.0	329545.0	0.569851	Y
5	IC 410-223551/6	1.2	0.663661	5.0	487169.0	0.553051	Y
6	ICIS 410-223551/2	2.0	1.100129	5.0	423864.0	0.550064	Y
7	IC 410-223551/5	3.2	1.908555	5.0	367697.0	0.596423	Y
8	IC 410-223551/4	4.8	2.637405	5.0	378916.0	0.549459	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

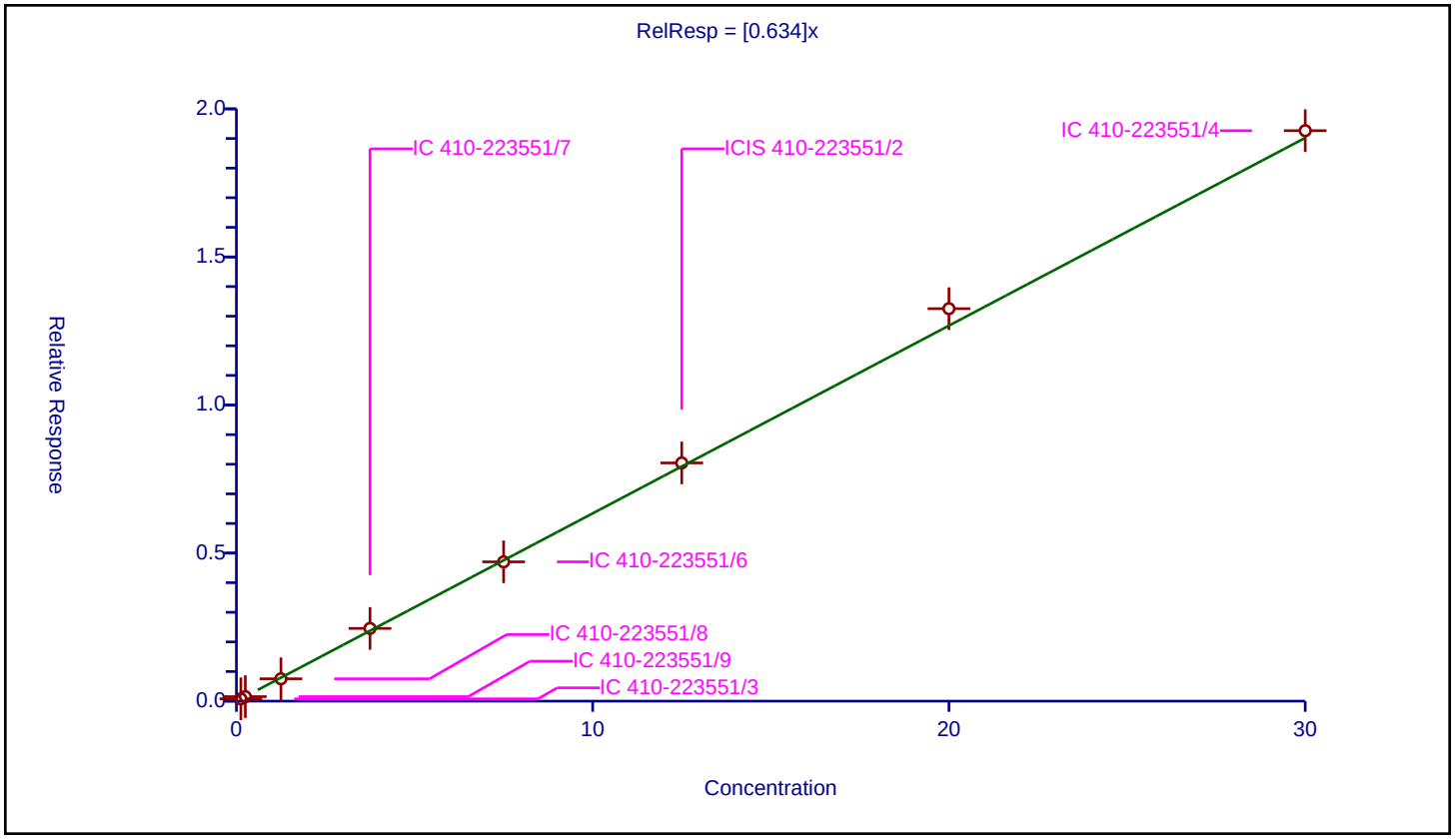
Curve Coefficients

Intercept:	0
Slope:	0.634

Error Coefficients

Standard Error:	1420000
Relative Standard Error:	3.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.0787	5.0	638441.0	0.629596	Y
2	IC 410-223551/9	0.25	0.152115	5.0	653323.0	0.608459	Y
3	IC 410-223551/8	1.25	0.754759	5.0	656428.0	0.603807	Y
4	IC 410-223551/7	3.75	2.455713	5.0	642508.0	0.654857	Y
5	IC 410-223551/6	7.5	4.703407	5.0	890630.0	0.627121	Y
6	ICIS 410-223551/2	12.5	8.04377	5.0	788982.0	0.643502	Y
7	IC 410-223551/5	20.0	13.253496	5.0	712114.0	0.662675	Y
8	IC 410-223551/4	30.0	19.264681	5.0	738564.0	0.642156	Y



Calibration / Hexachlorocyclopentadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

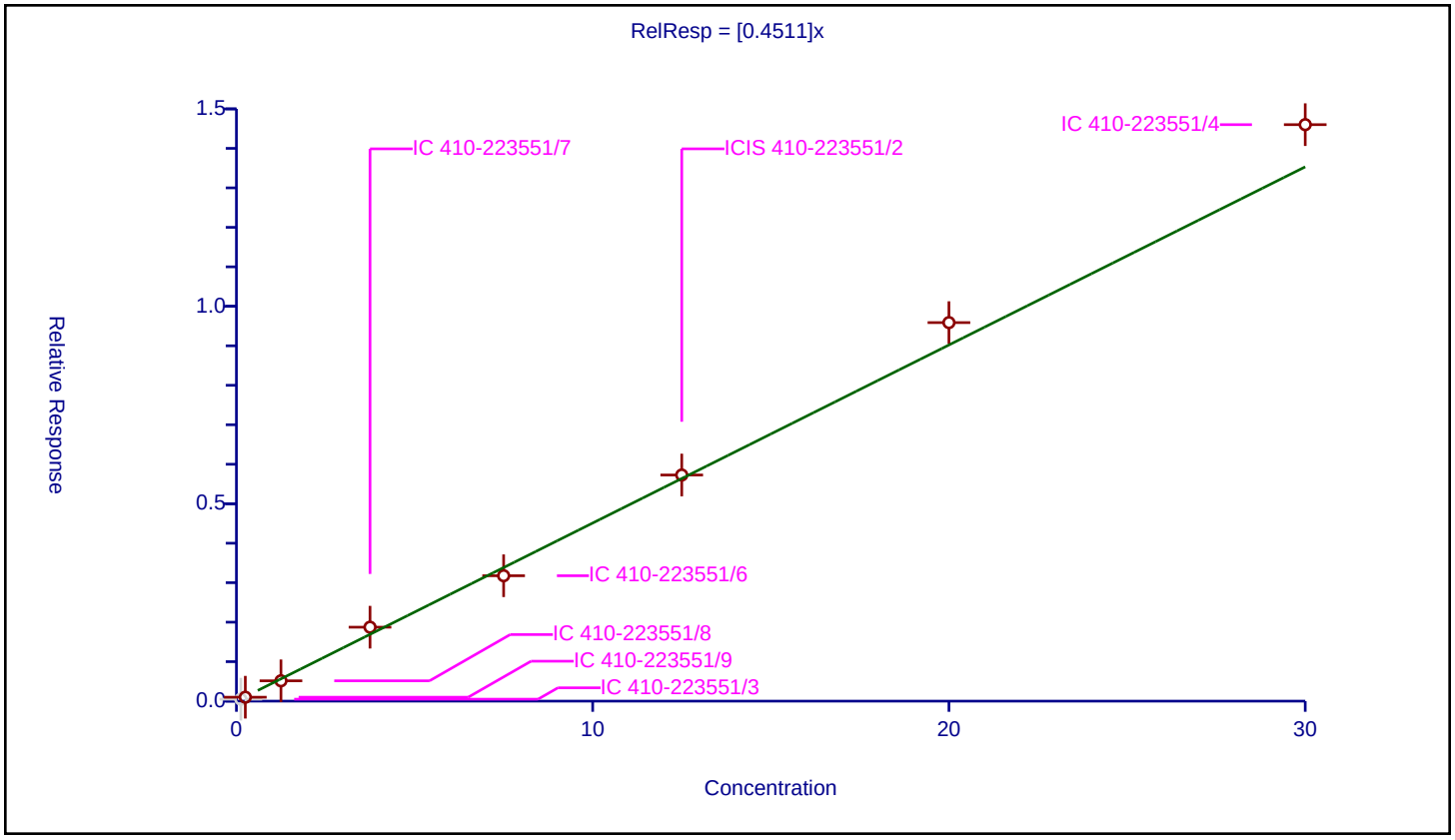
Curve Coefficients

Intercept:	0
Slope:	0.4511

Error Coefficients

Standard Error:	587000
Relative Standard Error:	8.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.049473	5.0	359794.0	0.395782	N
2	IC 410-223551/9	0.25	0.099598	5.0	357336.0	0.398393	Y
3	IC 410-223551/8	1.25	0.514831	5.0	352164.0	0.411865	Y
4	IC 410-223551/7	3.75	1.873189	5.0	329545.0	0.499517	Y
5	IC 410-223551/6	7.5	3.176023	5.0	487169.0	0.42347	Y
6	ICIS 410-223551/2	12.5	5.72712	5.0	423864.0	0.45817	Y
7	IC 410-223551/5	20.0	9.587432	5.0	367697.0	0.479372	Y
8	IC 410-223551/4	30.0	14.600769	5.0	378916.0	0.486692	Y



Calibration / 1,2,4,5-Tetrachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

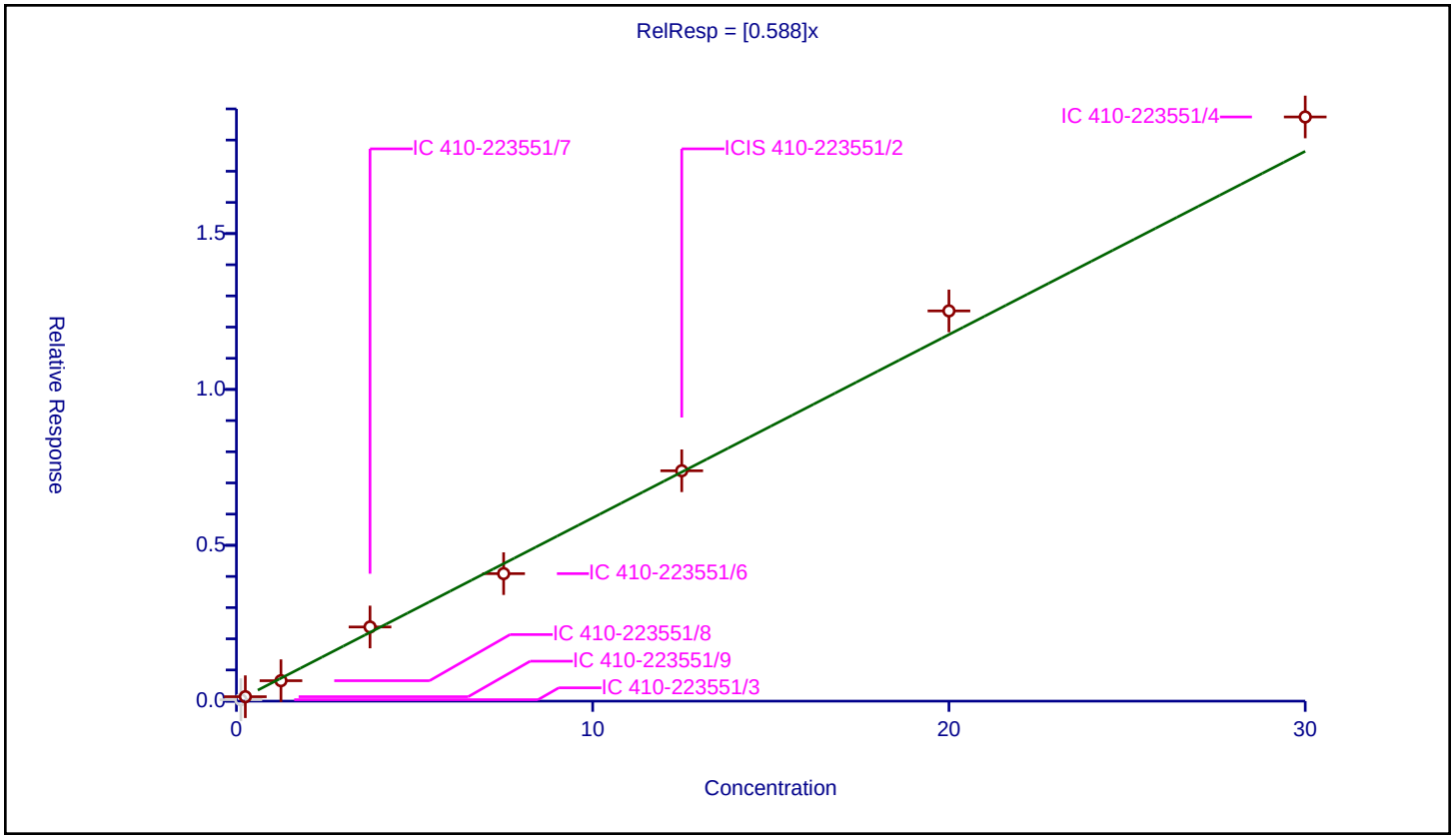
Curve Coefficients

Intercept:	0
Slope:	0.588

Error Coefficients

Standard Error:	758000
Relative Standard Error:	7.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.046832	5.0	359794.0	0.374659	N
2	IC 410-223551/9	0.25	0.142359	5.0	357336.0	0.569436	Y
3	IC 410-223551/8	1.25	0.655618	5.0	352164.0	0.524494	Y
4	IC 410-223551/7	3.75	2.379417	5.0	329545.0	0.634511	Y
5	IC 410-223551/6	7.5	4.090839	5.0	487169.0	0.545445	Y
6	ICIS 410-223551/2	12.5	7.390861	5.0	423864.0	0.591269	Y
7	IC 410-223551/5	20.0	12.519248	5.0	367697.0	0.625962	Y
8	IC 410-223551/4	30.0	18.741436	5.0	378916.0	0.624715	Y



Calibration / 2,4,6-Trichlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

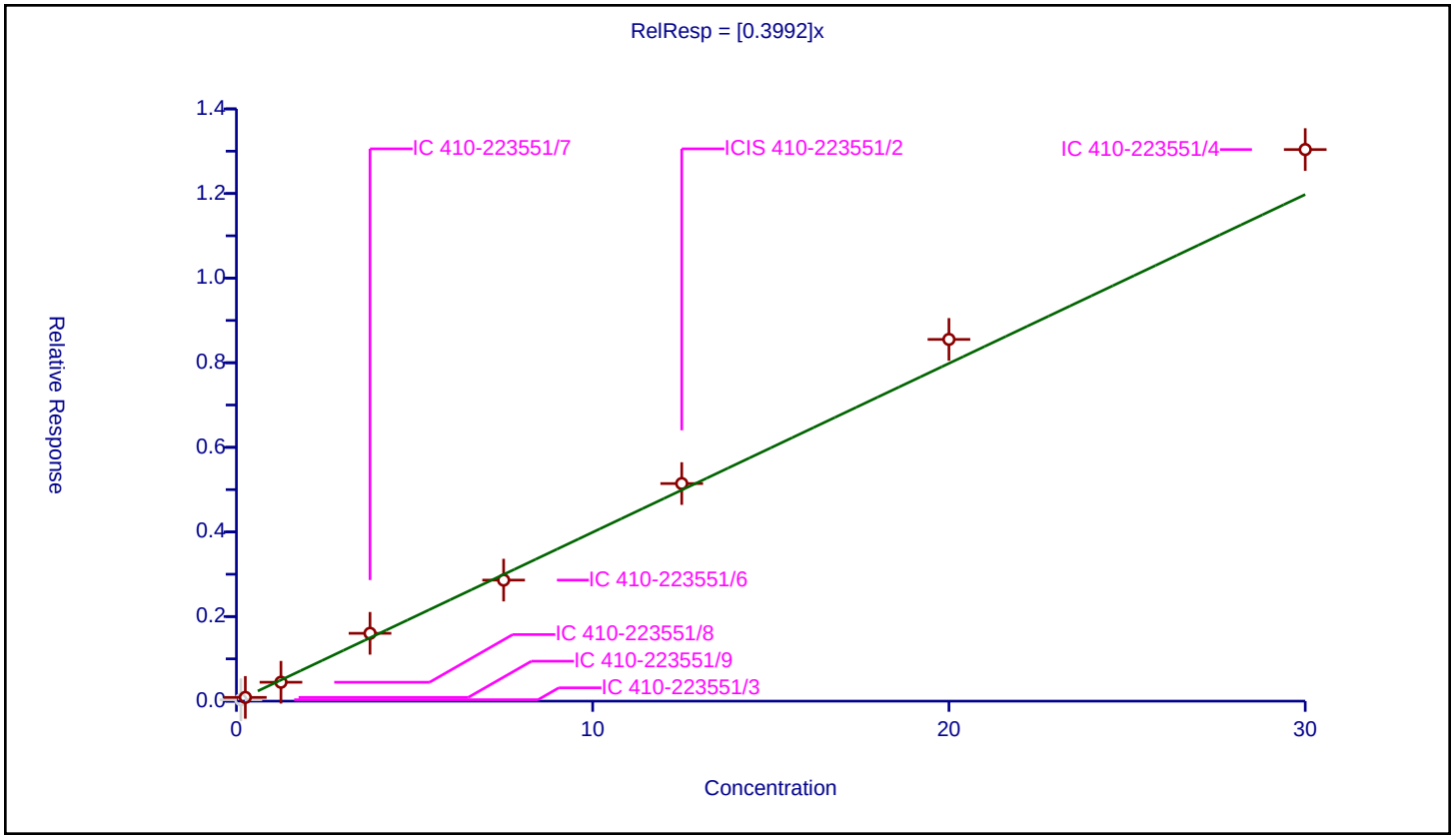
Curve Coefficients

Intercept:	0
Slope:	0.3992

Error Coefficients

Standard Error:	525000
Relative Standard Error:	8.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.033825	5.0	359794.0	0.270599	N
2	IC 410-223551/9	0.25	0.088558	5.0	357336.0	0.354232	Y
3	IC 410-223551/8	1.25	0.446937	5.0	352164.0	0.357549	Y
4	IC 410-223551/7	3.75	1.603119	5.0	329545.0	0.427499	Y
5	IC 410-223551/6	7.5	2.861091	5.0	487169.0	0.381479	Y
6	ICIS 410-223551/2	12.5	5.143501	5.0	423864.0	0.41148	Y
7	IC 410-223551/5	20.0	8.550926	5.0	367697.0	0.427546	Y
8	IC 410-223551/4	30.0	13.038655	5.0	378916.0	0.434622	Y



Calibration / 2,4,5-Trichlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

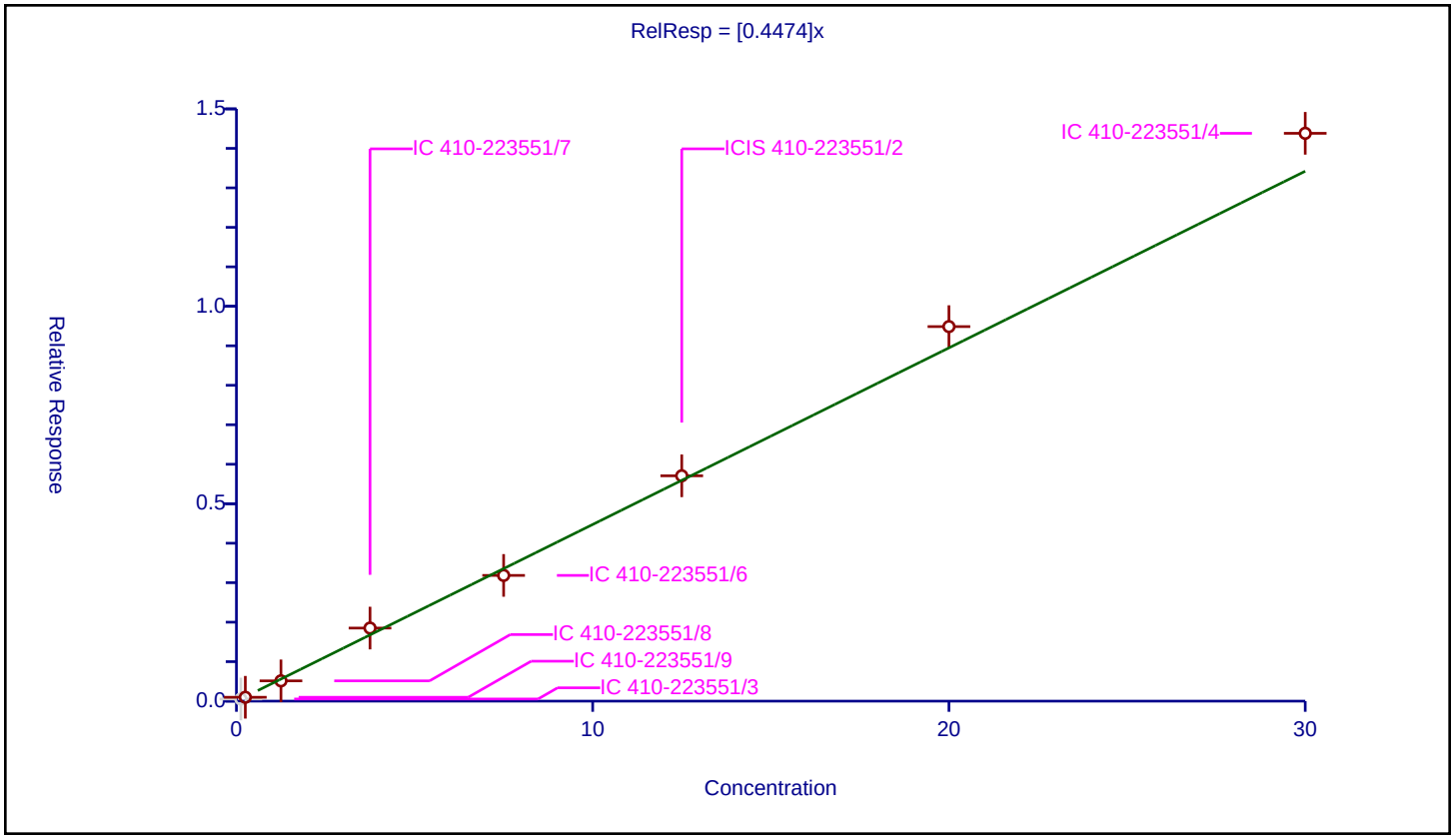
Curve Coefficients

Intercept:	0
Slope:	0.4474

Error Coefficients

Standard Error:	580000
Relative Standard Error:	8.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.054406	5.0	359794.0	0.435249	N
2	IC 410-223551/9	0.25	0.098045	5.0	357336.0	0.39218	Y
3	IC 410-223551/8	1.25	0.513993	5.0	352164.0	0.411195	Y
4	IC 410-223551/7	3.75	1.850749	5.0	329545.0	0.493533	Y
5	IC 410-223551/6	7.5	3.184429	5.0	487169.0	0.424591	Y
6	ICIS 410-223551/2	12.5	5.707125	5.0	423864.0	0.45657	Y
7	IC 410-223551/5	20.0	9.485895	5.0	367697.0	0.474295	Y
8	IC 410-223551/4	30.0	14.381736	5.0	378916.0	0.479391	Y



Calibration / 2-Fluorobiphenyl (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

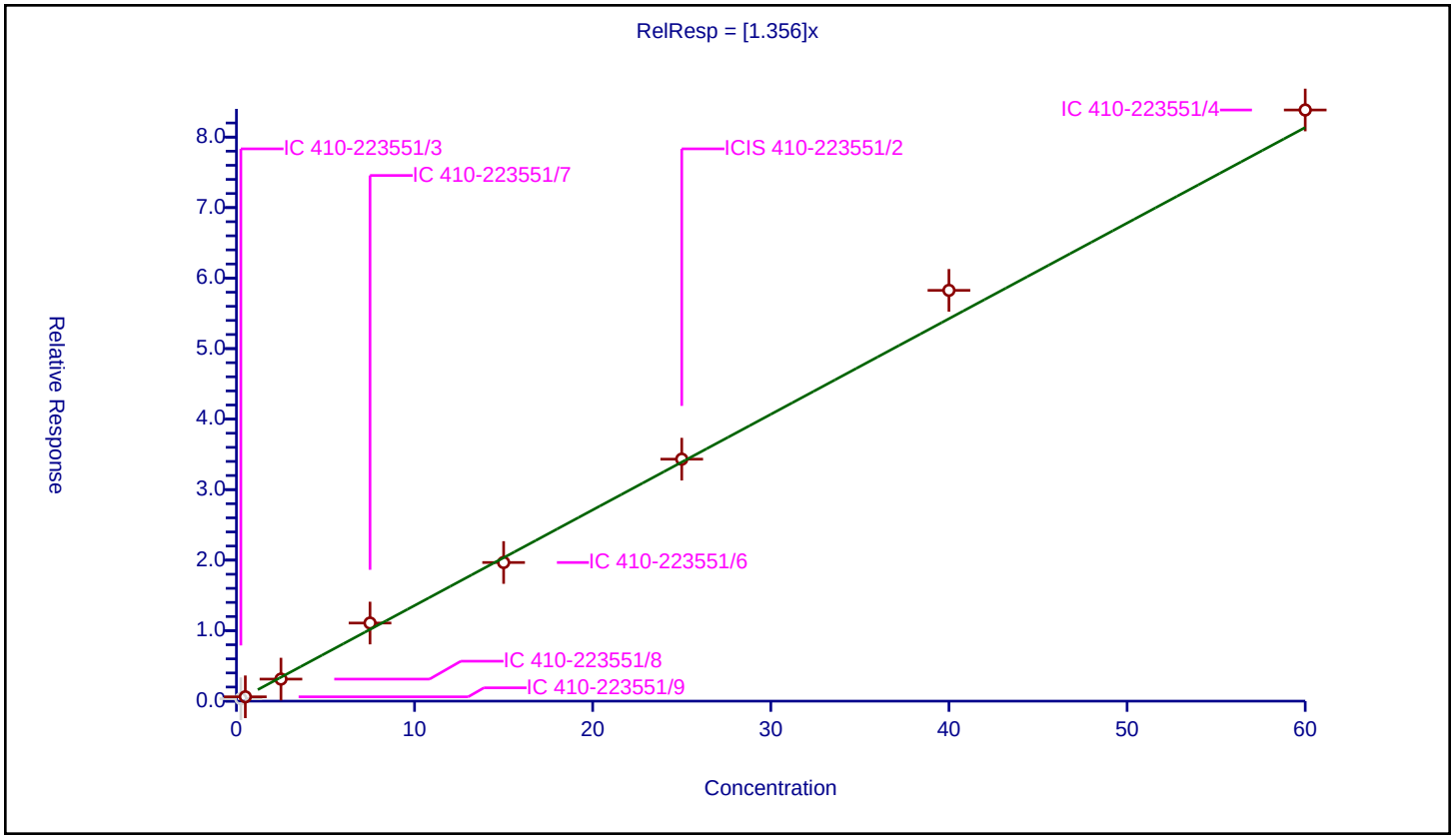
Curve Coefficients

Intercept:	0
Slope:	1.356

Error Coefficients

Standard Error:	3450000
Relative Standard Error:	7.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.25	0.346587	5.0	359794.0	1.386349	N
2	IC 410-223551/9	0.5	0.613792	5.0	357336.0	1.227584	Y
3	IC 410-223551/8	2.5	3.12505	5.0	352164.0	1.25002	Y
4	IC 410-223551/7	7.5	11.078487	5.0	329545.0	1.477132	Y
5	IC 410-223551/6	15.0	19.663546	5.0	487169.0	1.310903	Y
6	ICIS 410-223551/2	25.0	34.320206	5.0	423864.0	1.372808	Y
7	IC 410-223551/5	40.0	58.263149	5.0	367697.0	1.456579	Y
8	IC 410-223551/4	60.0	83.846763	5.0	378916.0	1.397446	Y



Calibration / Isosafrole Peak 2

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

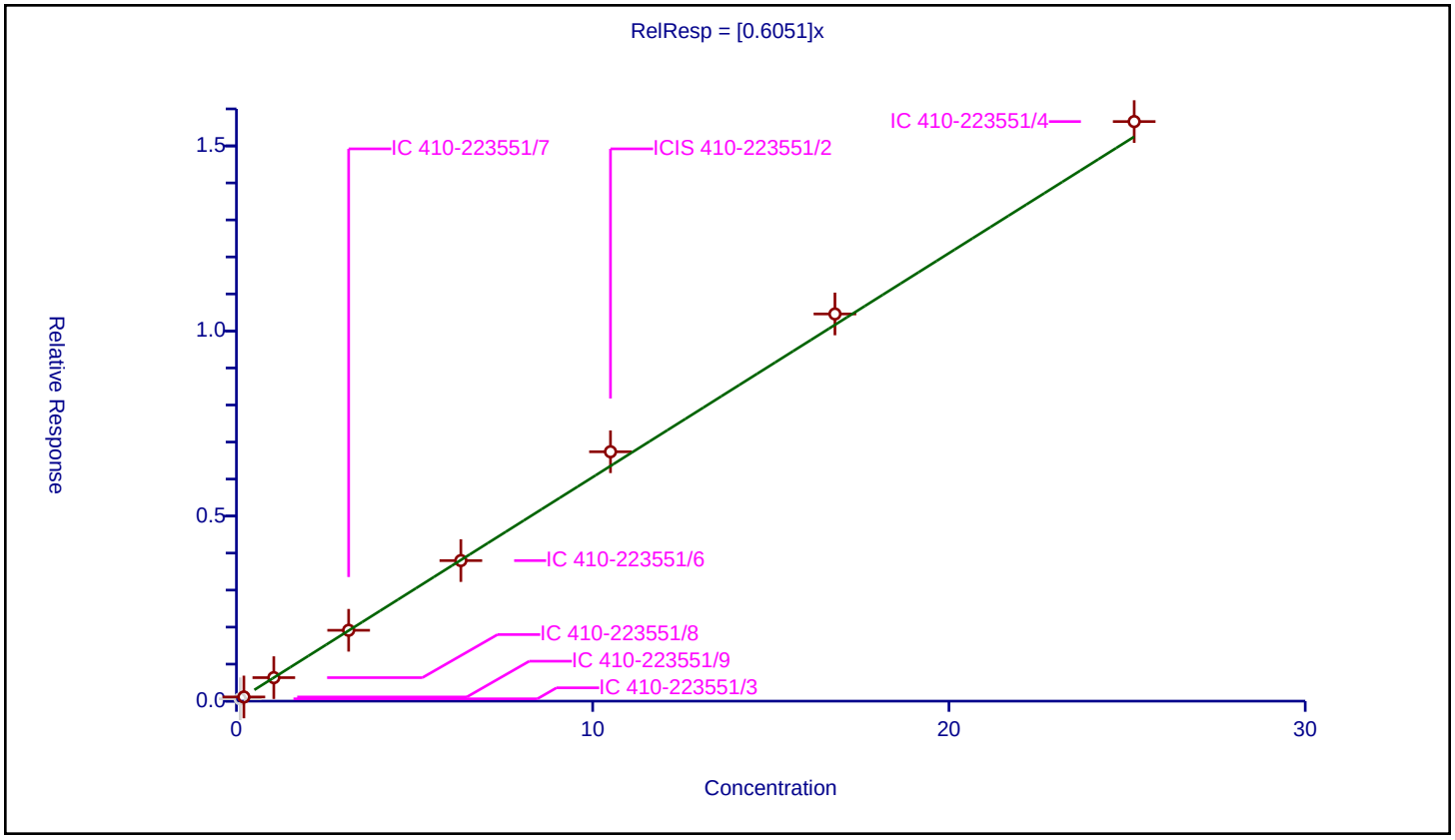
Curve Coefficients

Intercept:	0
Slope:	0.6051

Error Coefficients

Standard Error:	643000
Relative Standard Error:	5.6
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.105	0.063036	5.0	359794.0	0.600344	N
2	IC 410-223551/9	0.21	0.112359	5.0	357336.0	0.535044	Y
3	IC 410-223551/8	1.05	0.63486	5.0	352164.0	0.604629	Y
4	IC 410-223551/7	3.15	1.91417	5.0	329545.0	0.607673	Y
5	IC 410-223551/6	6.3	3.797214	5.0	487169.0	0.602732	Y
6	ICIS 410-223551/2	10.5	6.737161	5.0	423864.0	0.641634	Y
7	IC 410-223551/5	16.8	10.460121	5.0	367697.0	0.622626	Y
8	IC 410-223551/4	25.2	15.657666	5.0	378916.0	0.621336	Y



Calibration / 1,1'-Biphenyl

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

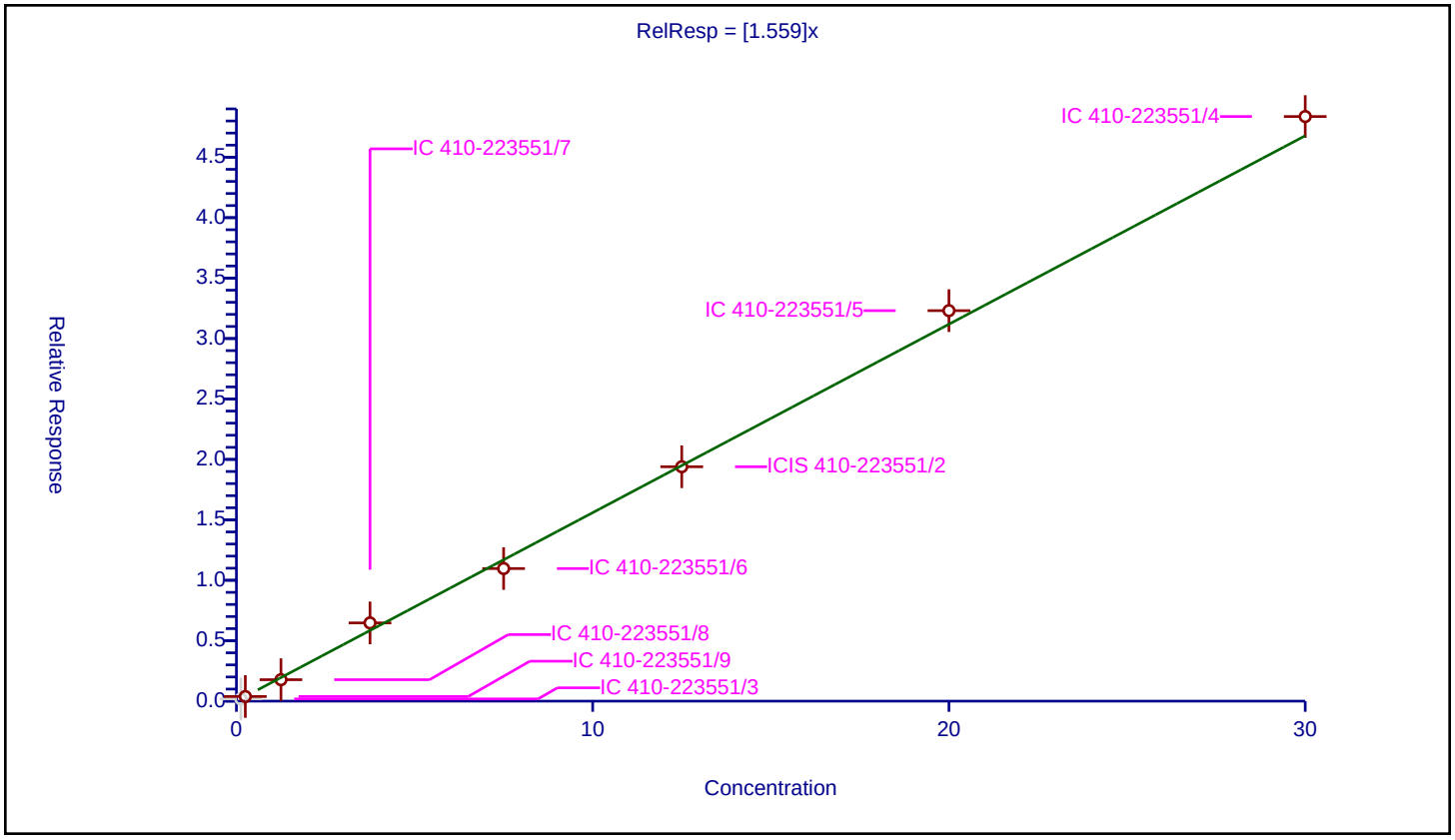
Curve Coefficients

Intercept:	0
Slope:	1.559

Error Coefficients

Standard Error:	1960000
Relative Standard Error:	6.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.1848	5.0	359794.0	1.478402	N
2	IC 410-223551/9	0.25	0.382021	5.0	357336.0	1.528086	Y
3	IC 410-223551/8	1.25	1.774017	5.0	352164.0	1.419214	Y
4	IC 410-223551/7	3.75	6.472242	5.0	329545.0	1.725931	Y
5	IC 410-223551/6	7.5	10.970382	5.0	487169.0	1.462718	Y
6	ICIS 410-223551/2	12.5	19.392659	5.0	423864.0	1.551413	Y
7	IC 410-223551/5	20.0	32.307416	5.0	367697.0	1.615371	Y
8	IC 410-223551/4	30.0	48.368134	5.0	378916.0	1.612271	Y



Calibration / 2-Chloronaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

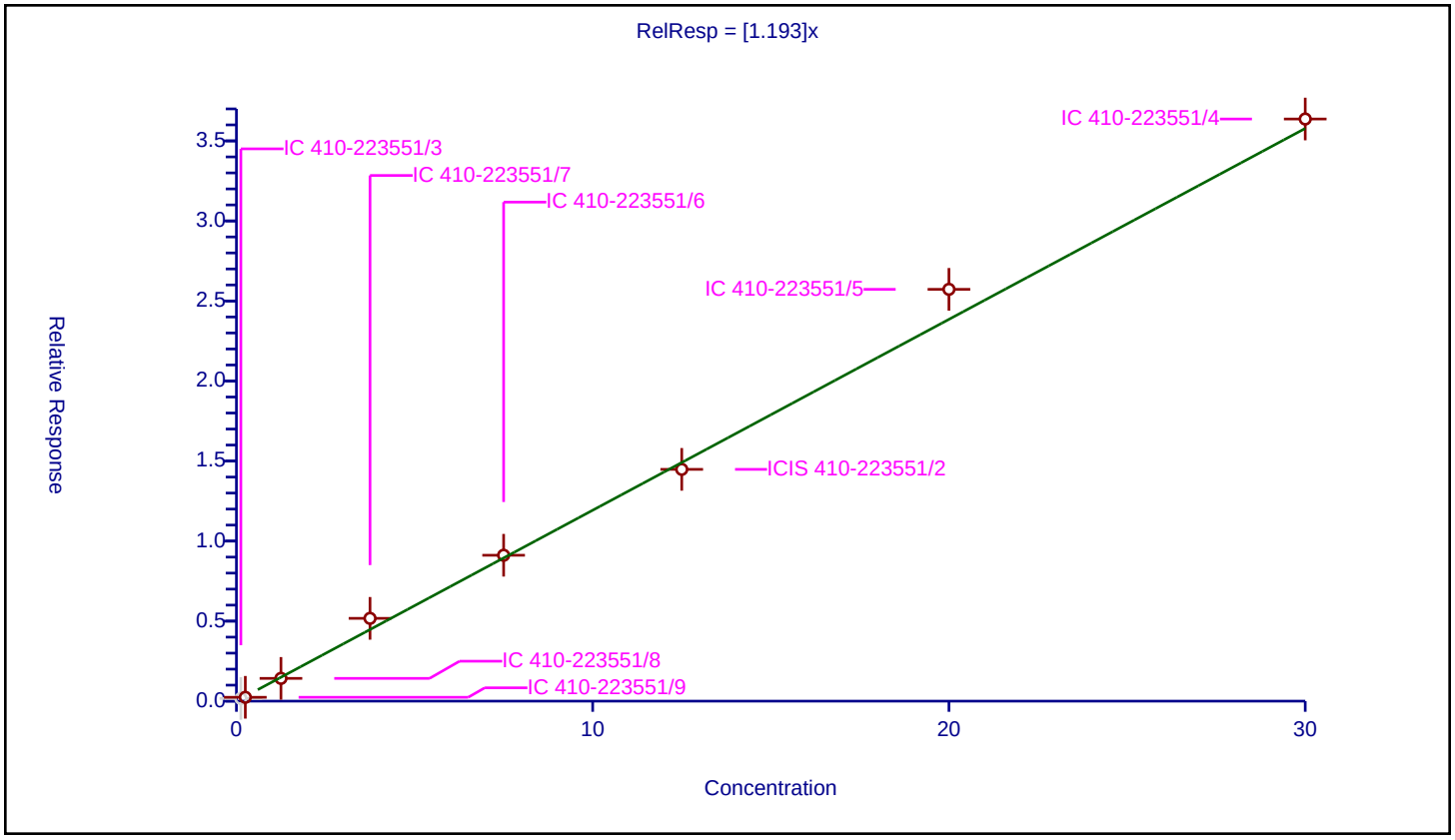
Curve Coefficients

Intercept:	0
Slope:	1.193

Error Coefficients

Standard Error:	1510000
Relative Standard Error:	11.0
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.167679	5.0	359794.0	1.341434	N
2	IC 410-223551/9	0.25	0.239802	5.0	357336.0	0.959209	Y
3	IC 410-223551/8	1.25	1.421625	5.0	352164.0	1.1373	Y
4	IC 410-223551/7	3.75	5.172935	5.0	329545.0	1.379449	Y
5	IC 410-223551/6	7.5	9.11347	5.0	487169.0	1.215129	Y
6	ICIS 410-223551/2	12.5	14.480836	5.0	423864.0	1.158467	Y
7	IC 410-223551/5	20.0	25.727651	5.0	367697.0	1.286383	Y
8	IC 410-223551/4	30.0	36.367216	5.0	378916.0	1.212241	Y



Calibration / 1-Chloronaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

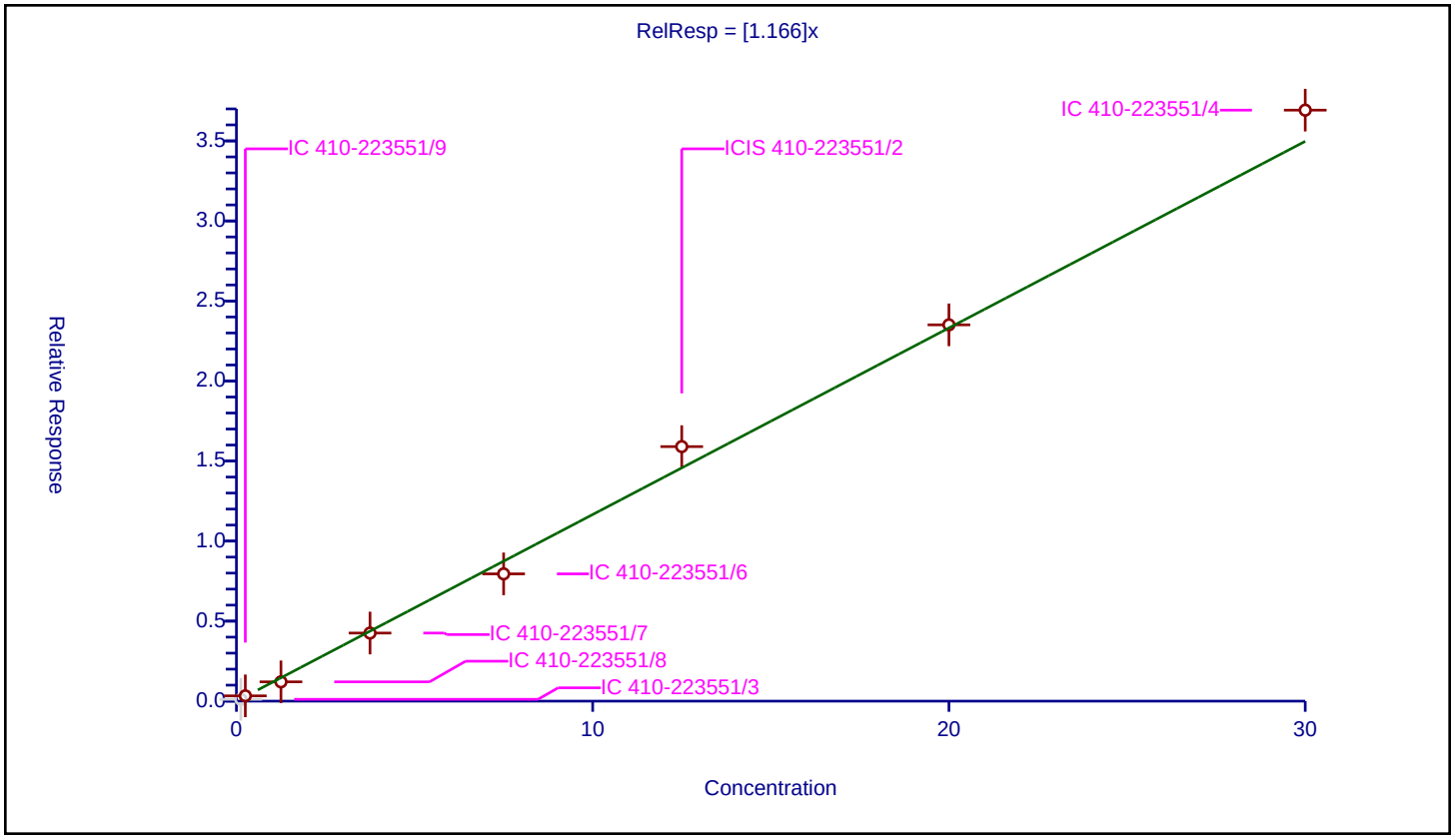
Curve Coefficients

Intercept:	0
Slope:	1.166

Error Coefficients

Standard Error:	1490000
Relative Standard Error:	10.7
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.113815	5.0	359794.0	0.910521	N
2	IC 410-223551/9	0.25	0.330991	5.0	357336.0	1.323964	Y
3	IC 410-223551/8	1.25	1.204907	5.0	352164.0	0.963926	Y
4	IC 410-223551/7	3.75	4.253228	5.0	329545.0	1.134194	Y
5	IC 410-223551/6	7.5	7.950547	5.0	487169.0	1.060073	Y
6	ICIS 410-223551/2	12.5	15.901079	5.0	423864.0	1.272086	Y
7	IC 410-223551/5	20.0	23.509398	5.0	367697.0	1.17547	Y
8	IC 410-223551/4	30.0	36.920993	5.0	378916.0	1.2307	Y



Calibration / Phenyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

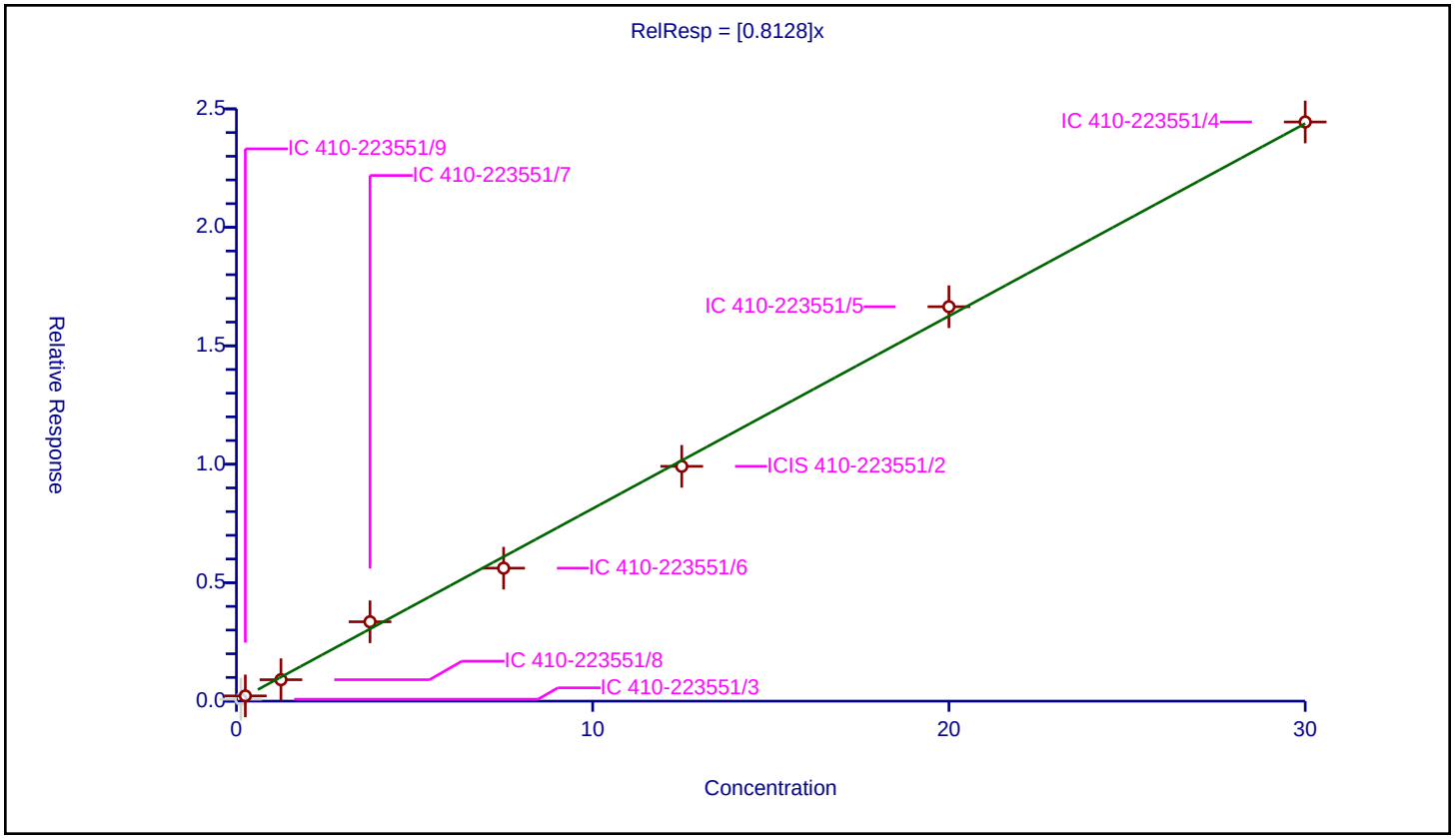
Curve Coefficients

Intercept:	0
Slope:	0.8128

Error Coefficients

Standard Error:	999000
Relative Standard Error:	7.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.08163	5.0	359794.0	0.65304	N
2	IC 410-223551/9	0.25	0.220913	5.0	357336.0	0.88365	Y
3	IC 410-223551/8	1.25	0.904735	5.0	352164.0	0.723788	Y
4	IC 410-223551/7	3.75	3.349983	5.0	329545.0	0.893329	Y
5	IC 410-223551/6	7.5	5.613329	5.0	487169.0	0.748444	Y
6	ICIS 410-223551/2	12.5	9.910608	5.0	423864.0	0.792849	Y
7	IC 410-223551/5	20.0	16.650109	5.0	367697.0	0.832505	Y
8	IC 410-223551/4	30.0	24.446487	5.0	378916.0	0.814883	Y



Calibration / 2-Nitroaniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

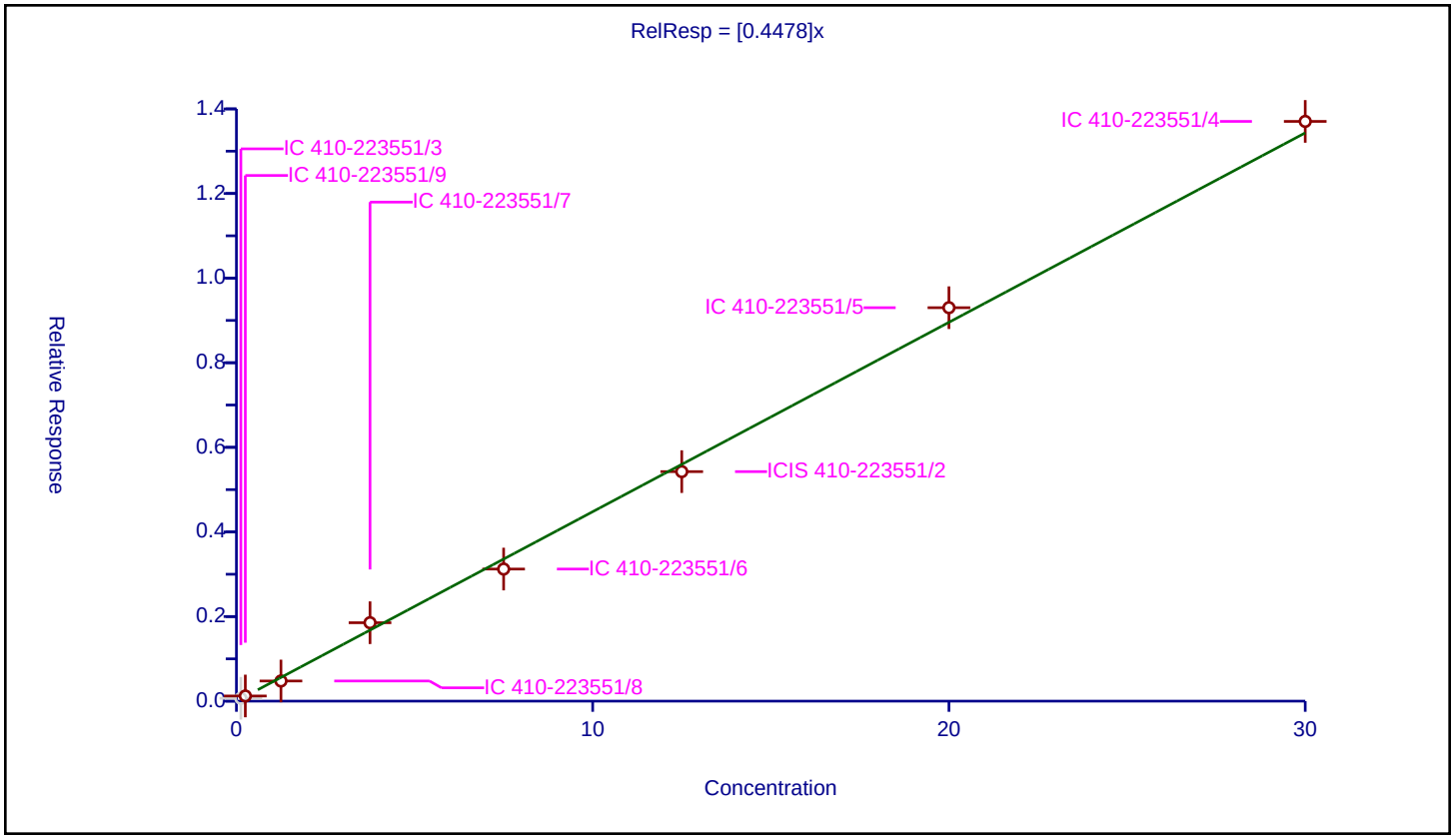
Curve Coefficients

Intercept:	0
Slope:	0.4478

Error Coefficients

Standard Error:	558000
Relative Standard Error:	9.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.067914	5.0	359794.0	0.543311	N
2	IC 410-223551/9	0.25	0.12165	5.0	357336.0	0.486601	Y
3	IC 410-223551/8	1.25	0.476397	5.0	352164.0	0.381118	Y
4	IC 410-223551/7	3.75	1.854056	5.0	329545.0	0.494415	Y
5	IC 410-223551/6	7.5	3.122541	5.0	487169.0	0.416339	Y
6	ICIS 410-223551/2	12.5	5.425313	5.0	423864.0	0.434025	Y
7	IC 410-223551/5	20.0	9.300484	5.0	367697.0	0.465024	Y
8	IC 410-223551/4	30.0	13.703776	5.0	378916.0	0.456793	Y



Calibration / 1,4-Dinitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

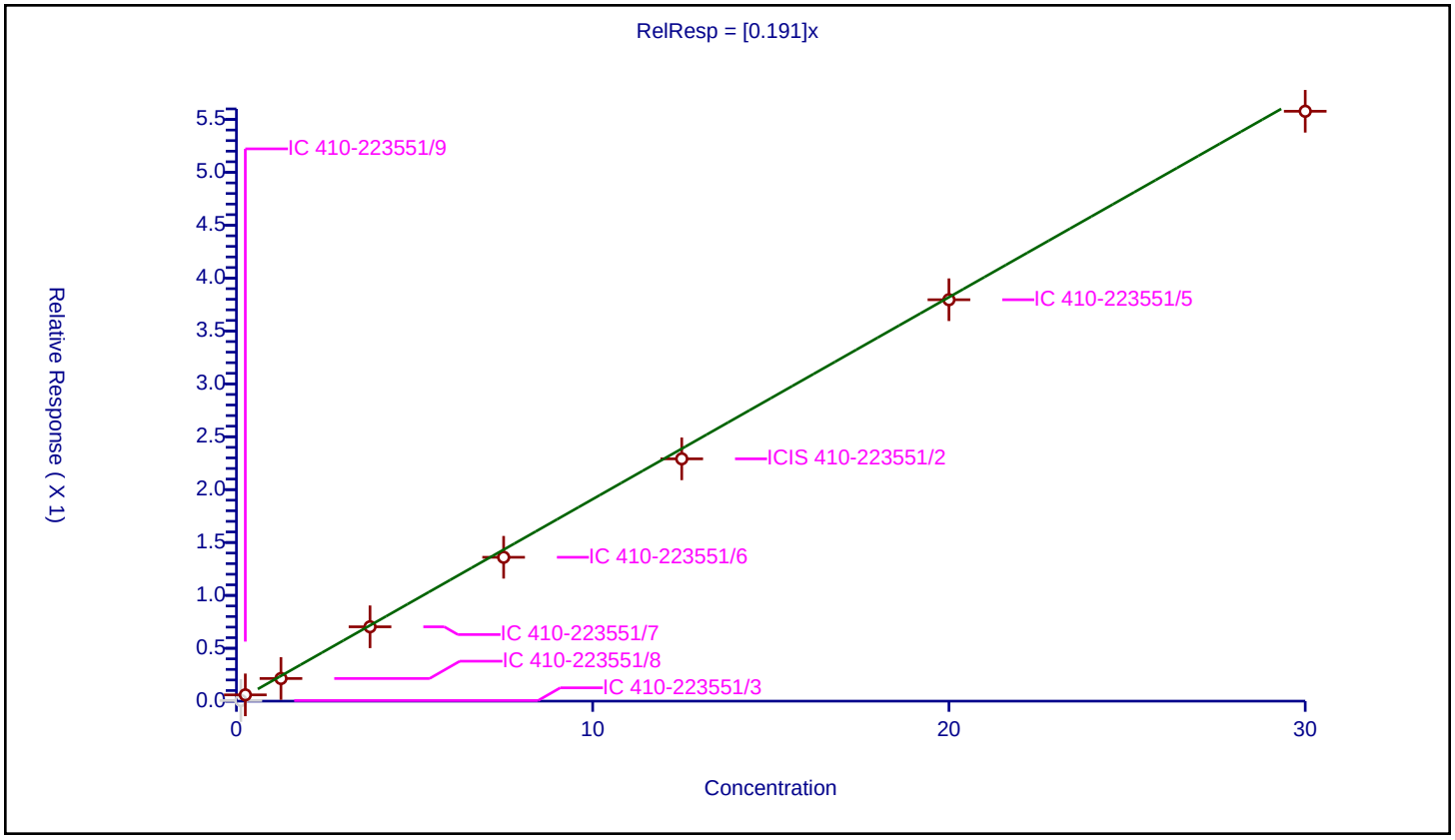
Curve Coefficients

Intercept:	0
Slope:	0.191

Error Coefficients

Standard Error:	229000
Relative Standard Error:	11.2
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.005739	5.0	359794.0	0.045915	N
2	IC 410-223551/9	0.25	0.059412	5.0	357336.0	0.237647	Y
3	IC 410-223551/8	1.25	0.213977	5.0	352164.0	0.171182	Y
4	IC 410-223551/7	3.75	0.703106	5.0	329545.0	0.187495	Y
5	IC 410-223551/6	7.5	1.36036	5.0	487169.0	0.181381	Y
6	ICIS 410-223551/2	12.5	2.291124	5.0	423864.0	0.18329	Y
7	IC 410-223551/5	20.0	3.795557	5.0	367697.0	0.189778	Y
8	IC 410-223551/4	30.0	5.577529	5.0	378916.0	0.185918	Y



Calibration / 1,4-Naphthoquinone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

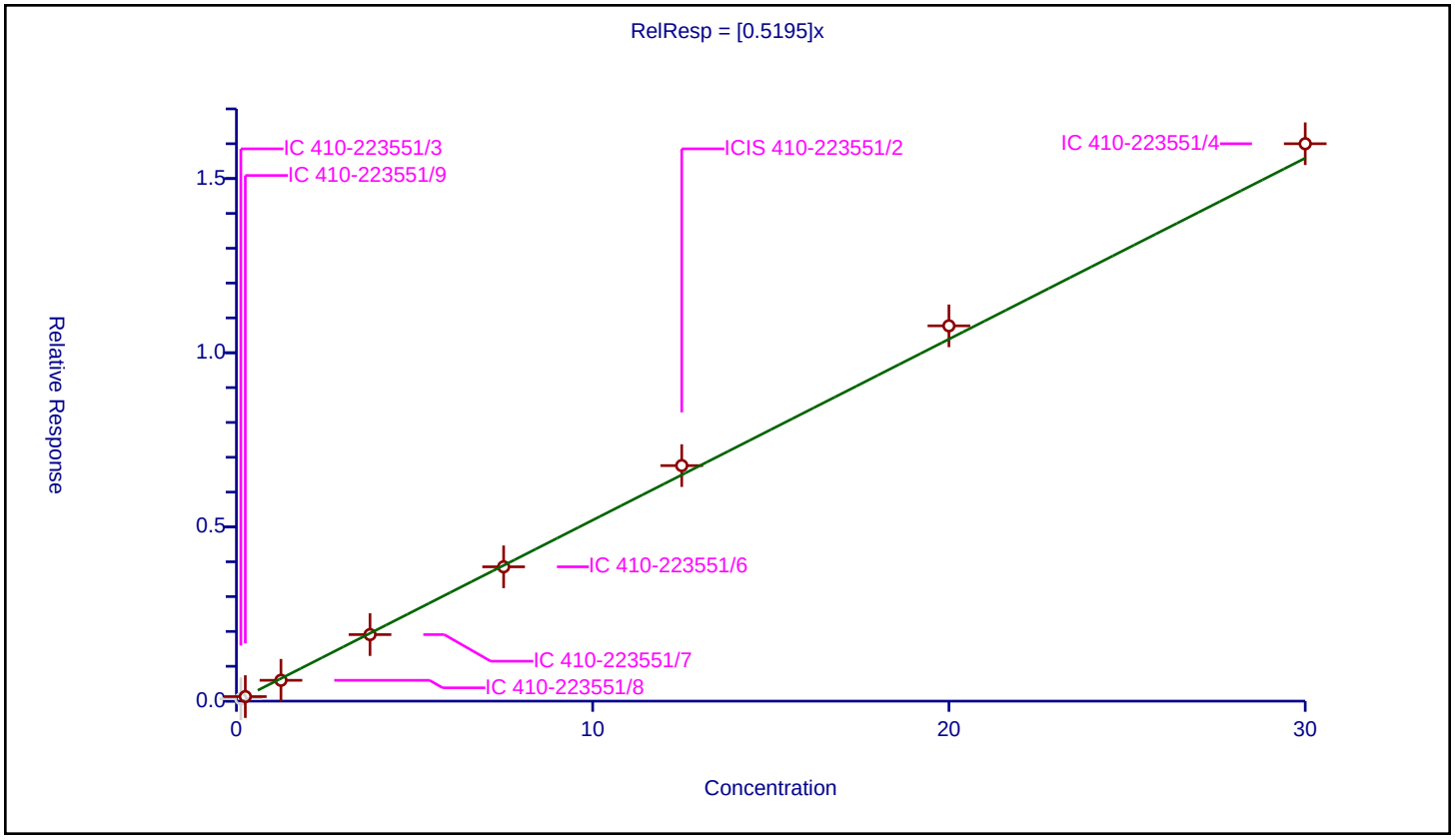
Curve Coefficients

Intercept:	0
Slope:	0.5195

Error Coefficients

Standard Error:	656000
Relative Standard Error:	4.2
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.067372	5.0	359794.0	0.538975	N
2	IC 410-223551/9	0.25	0.130549	5.0	357336.0	0.522198	Y
3	IC 410-223551/8	1.25	0.597846	5.0	352164.0	0.478277	Y
4	IC 410-223551/7	3.75	1.91024	5.0	329545.0	0.509397	Y
5	IC 410-223551/6	7.5	3.8555	5.0	487169.0	0.514067	Y
6	ICIS 410-223551/2	12.5	6.760989	5.0	423864.0	0.540879	Y
7	IC 410-223551/5	20.0	10.772824	5.0	367697.0	0.538641	Y
8	IC 410-223551/4	30.0	16.000037	5.0	378916.0	0.533335	Y



Calibration / 2,6-Dinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

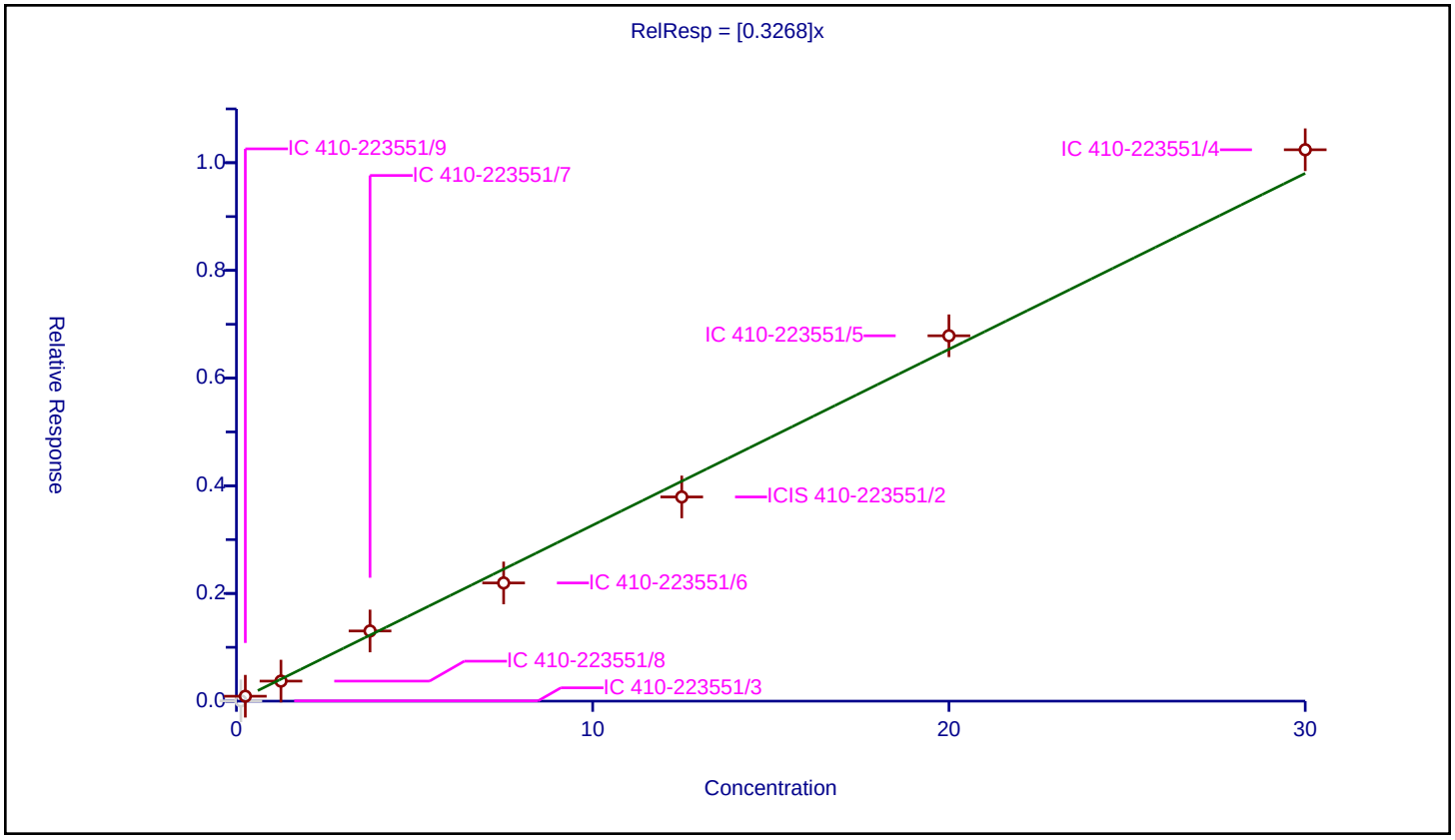
Curve Coefficients

Intercept:	0
Slope:	0.3268

Error Coefficients

Standard Error:	410000
Relative Standard Error:	8.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.005017	5.0	359794.0	0.040134	N
2	IC 410-223551/9	0.25	0.091329	5.0	357336.0	0.365314	Y
3	IC 410-223551/8	1.25	0.372355	5.0	352164.0	0.297884	Y
4	IC 410-223551/7	3.75	1.303009	5.0	329545.0	0.347469	Y
5	IC 410-223551/6	7.5	2.194906	5.0	487169.0	0.292654	Y
6	ICIS 410-223551/2	12.5	3.792478	5.0	423864.0	0.303398	Y
7	IC 410-223551/5	20.0	6.786158	5.0	367697.0	0.339308	Y
8	IC 410-223551/4	30.0	10.241228	5.0	378916.0	0.341374	Y



Calibration / Dimethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

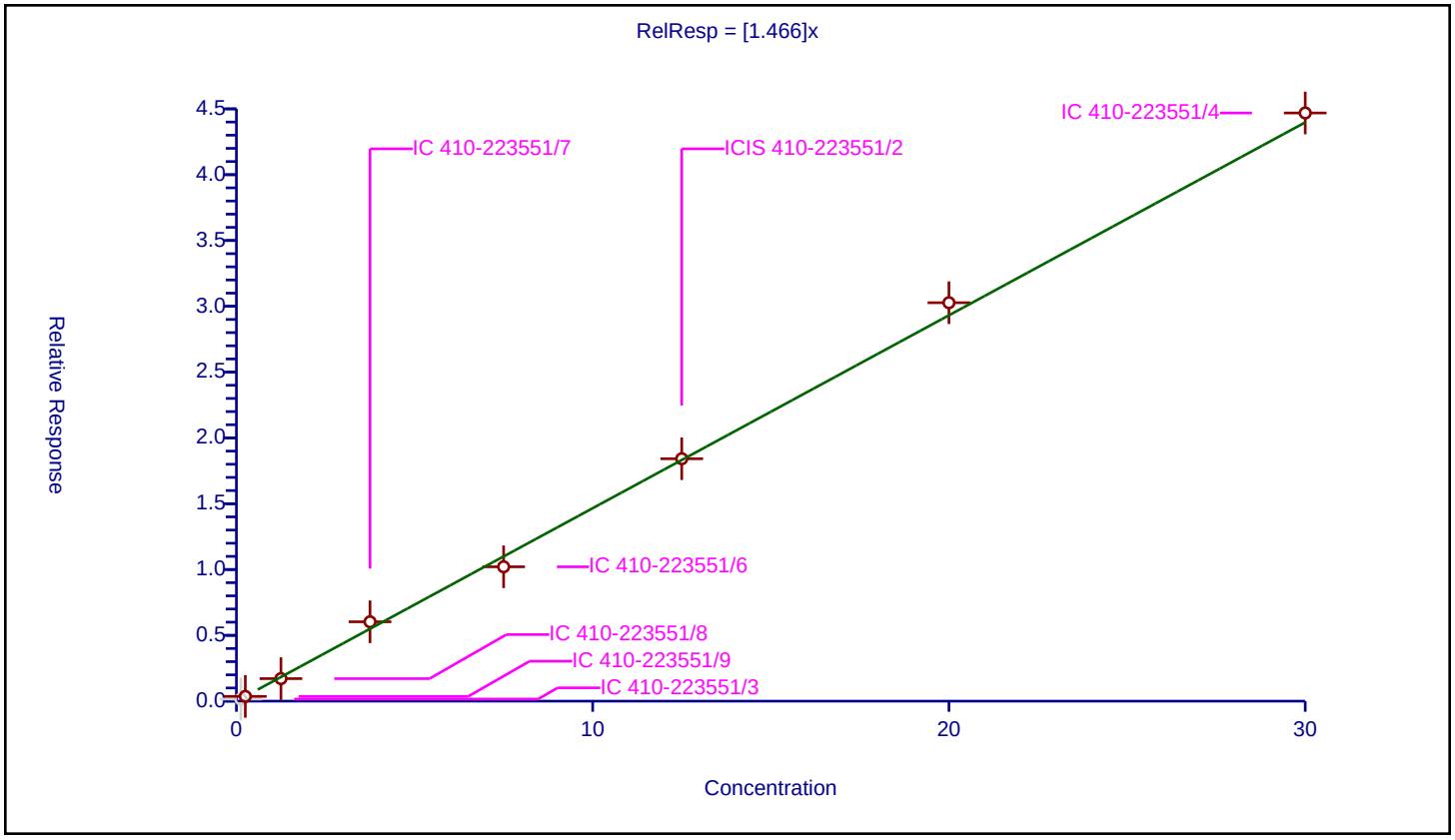
Curve Coefficients

Intercept:	0
Slope:	1.466

Error Coefficients

Standard Error:	1830000
Relative Standard Error:	5.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.157646	5.0	359794.0	1.261166	N
2	IC 410-223551/9	0.25	0.361453	5.0	357336.0	1.44581	Y
3	IC 410-223551/8	1.25	1.711404	5.0	352164.0	1.369123	Y
4	IC 410-223551/7	3.75	6.029677	5.0	329545.0	1.607914	Y
5	IC 410-223551/6	7.5	10.208295	5.0	487169.0	1.361106	Y
6	ICIS 410-223551/2	12.5	18.418526	5.0	423864.0	1.473482	Y
7	IC 410-223551/5	20.0	30.27388	5.0	367697.0	1.513694	Y
8	IC 410-223551/4	30.0	44.687358	5.0	378916.0	1.489579	Y



Calibration / 1,3-Dinitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

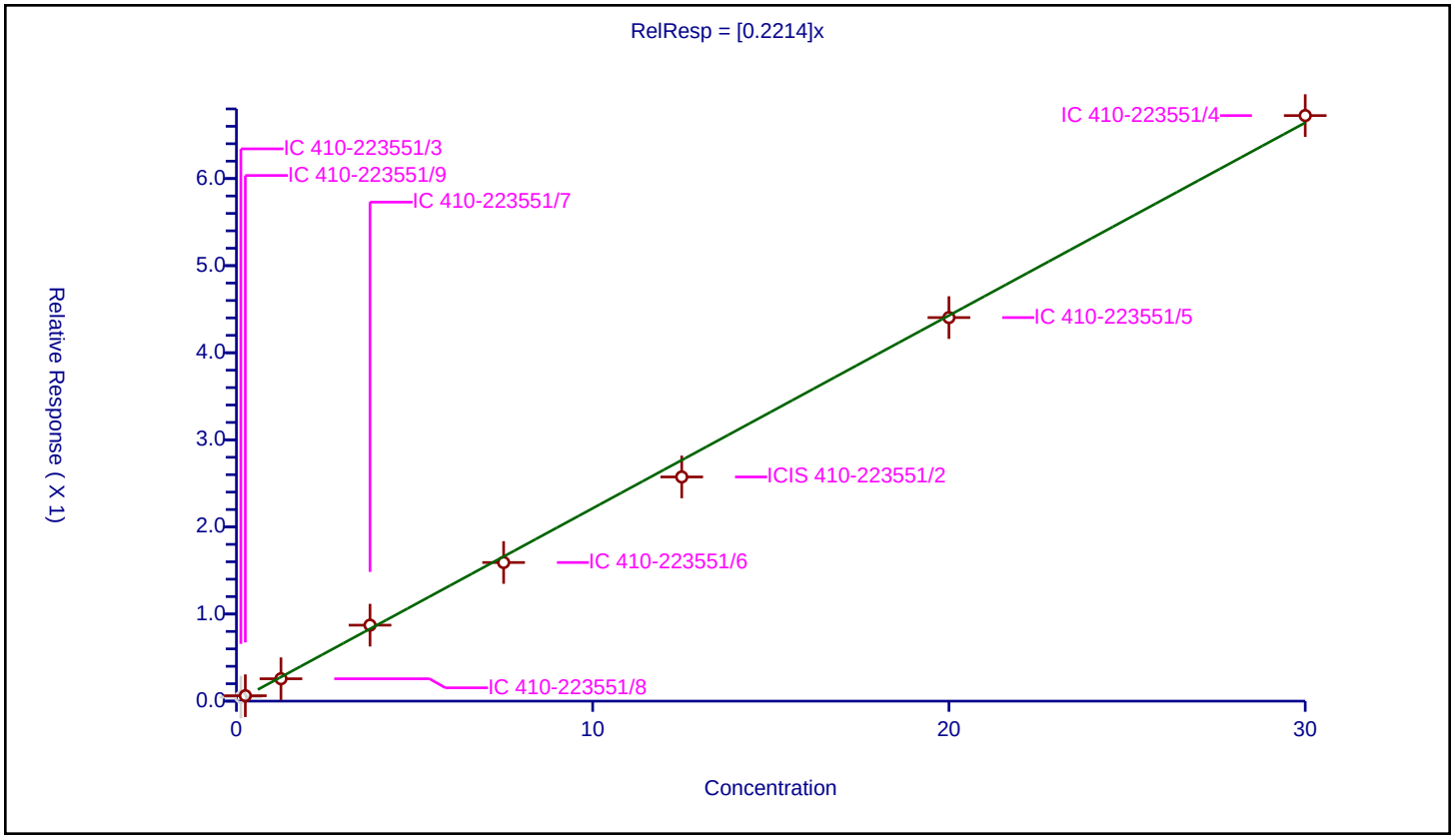
Curve Coefficients

Intercept:	0
Slope:	0.2214

Error Coefficients

Standard Error:	271000
Relative Standard Error:	7.1
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.045971	5.0	359794.0	0.367766	N
2	IC 410-223551/9	0.25	0.062238	5.0	357336.0	0.248953	Y
3	IC 410-223551/8	1.25	0.257011	5.0	352164.0	0.205609	Y
4	IC 410-223551/7	3.75	0.872324	5.0	329545.0	0.23262	Y
5	IC 410-223551/6	7.5	1.591881	5.0	487169.0	0.212251	Y
6	ICIS 410-223551/2	12.5	2.574151	5.0	423864.0	0.205932	Y
7	IC 410-223551/5	20.0	4.403925	5.0	367697.0	0.220196	Y
8	IC 410-223551/4	30.0	6.723218	5.0	378916.0	0.224107	Y



Calibration / Acenaphthylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

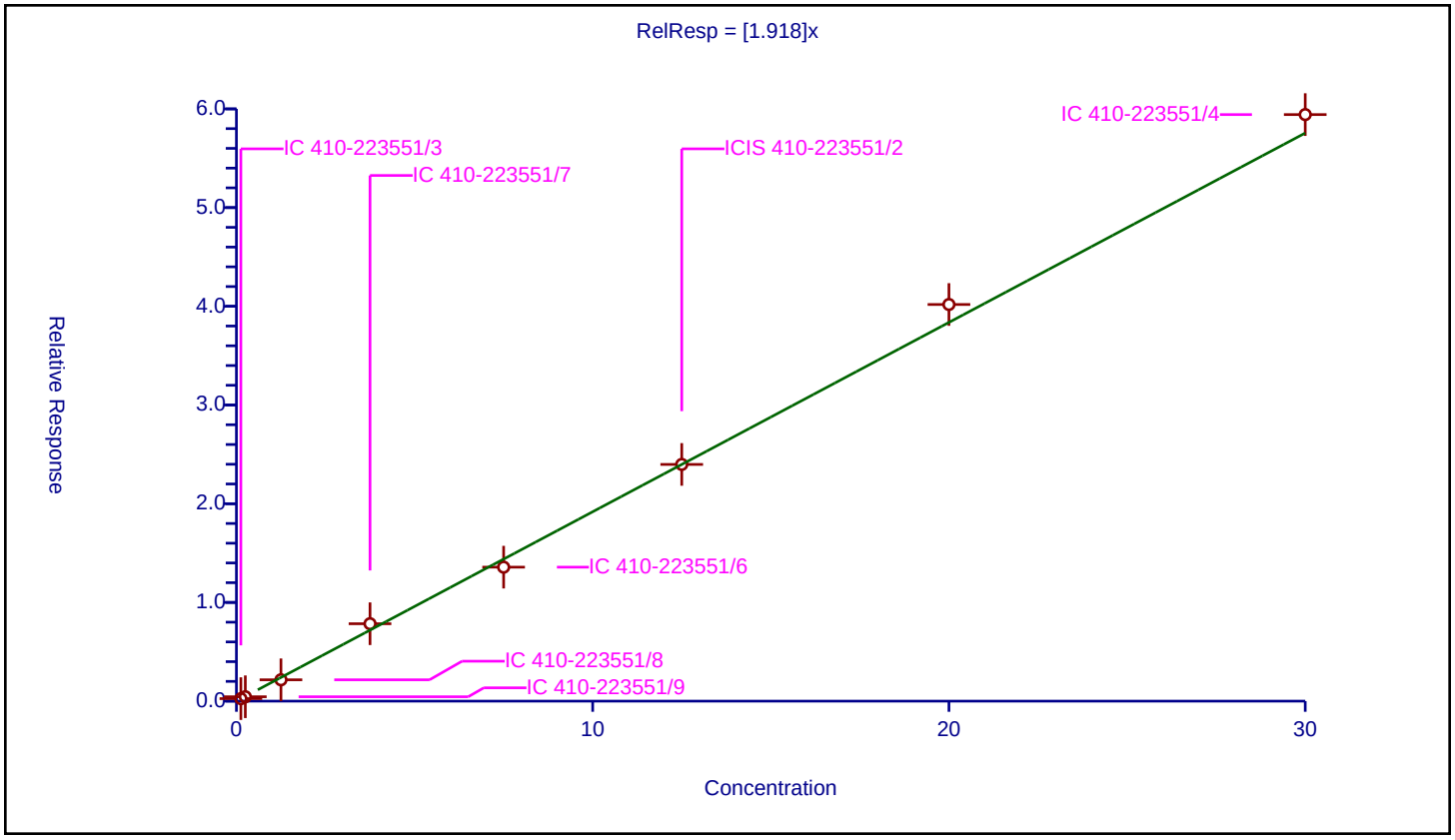
Curve Coefficients

Intercept:	0
Slope:	1.918

Error Coefficients

Standard Error:	2240000
Relative Standard Error:	6.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.254298	5.0	359794.0	2.034386	Y
2	IC 410-223551/9	0.25	0.443504	5.0	357336.0	1.774017	Y
3	IC 410-223551/8	1.25	2.161394	5.0	352164.0	1.729115	Y
4	IC 410-223551/7	3.75	7.843739	5.0	329545.0	2.091664	Y
5	IC 410-223551/6	7.5	13.573308	5.0	487169.0	1.809774	Y
6	ICIS 410-223551/2	12.5	23.980852	5.0	423864.0	1.918468	Y
7	IC 410-223551/5	20.0	40.183616	5.0	367697.0	2.009181	Y
8	IC 410-223551/4	30.0	59.42226	5.0	378916.0	1.980742	Y



Calibration / 3-Nitroaniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

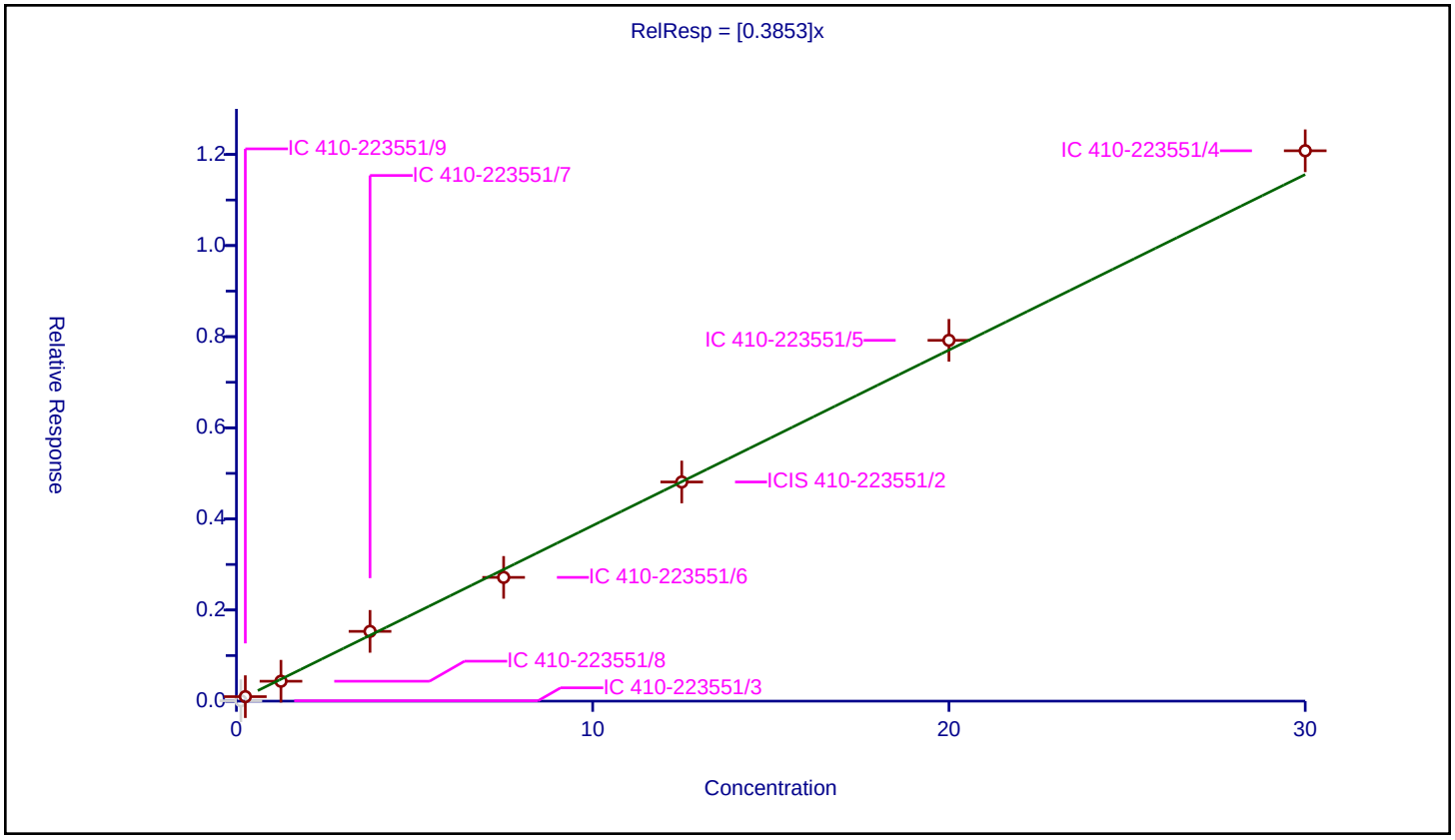
Curve Coefficients

Intercept:	0
Slope:	0.3853

Error Coefficients

Standard Error:	487000
Relative Standard Error:	5.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.00863	5.0	359794.0	0.06904	N
2	IC 410-223551/9	0.25	0.098409	5.0	357336.0	0.393635	Y
3	IC 410-223551/8	1.25	0.436984	5.0	352164.0	0.349587	Y
4	IC 410-223551/7	3.75	1.531506	5.0	329545.0	0.408401	Y
5	IC 410-223551/6	7.5	2.716521	5.0	487169.0	0.362203	Y
6	ICIS 410-223551/2	12.5	4.81047	5.0	423864.0	0.384838	Y
7	IC 410-223551/5	20.0	7.920407	5.0	367697.0	0.39602	Y
8	IC 410-223551/4	30.0	12.081147	5.0	378916.0	0.402705	Y



Calibration / Acenaphthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

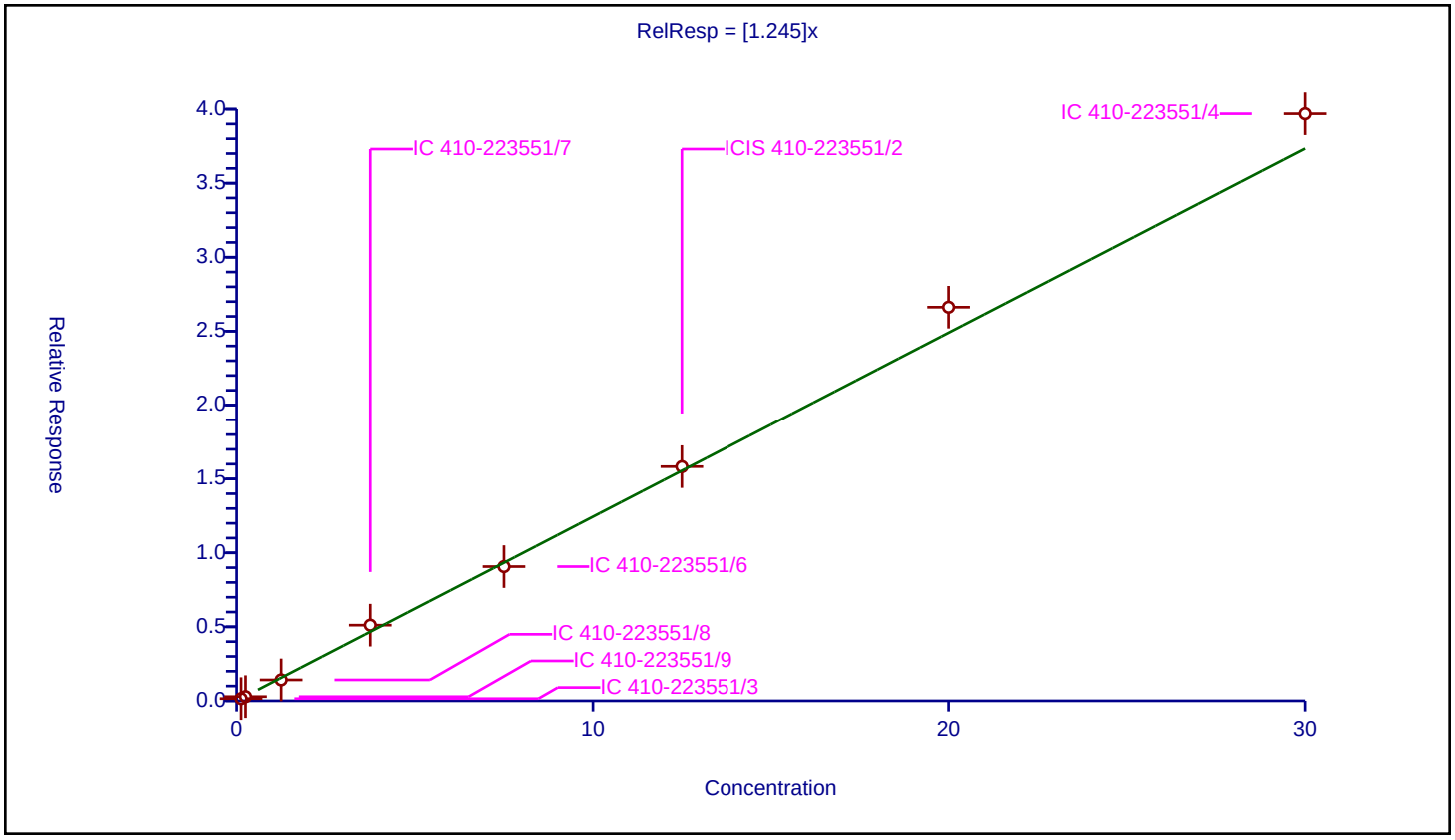
Curve Coefficients

Intercept:	0
Slope:	1.245

Error Coefficients

Standard Error:	1490000
Relative Standard Error:	7.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.150128	5.0	359794.0	1.201021	Y
2	IC 410-223551/9	0.25	0.282647	5.0	357336.0	1.130589	Y
3	IC 410-223551/8	1.25	1.414085	5.0	352164.0	1.131268	Y
4	IC 410-223551/7	3.75	5.113399	5.0	329545.0	1.363573	Y
5	IC 410-223551/6	7.5	9.071852	5.0	487169.0	1.20958	Y
6	ICIS 410-223551/2	12.5	15.832142	5.0	423864.0	1.266571	Y
7	IC 410-223551/5	20.0	26.621226	5.0	367697.0	1.331061	Y
8	IC 410-223551/4	30.0	39.692016	5.0	378916.0	1.323067	Y



Calibration / 2,4-Dinitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

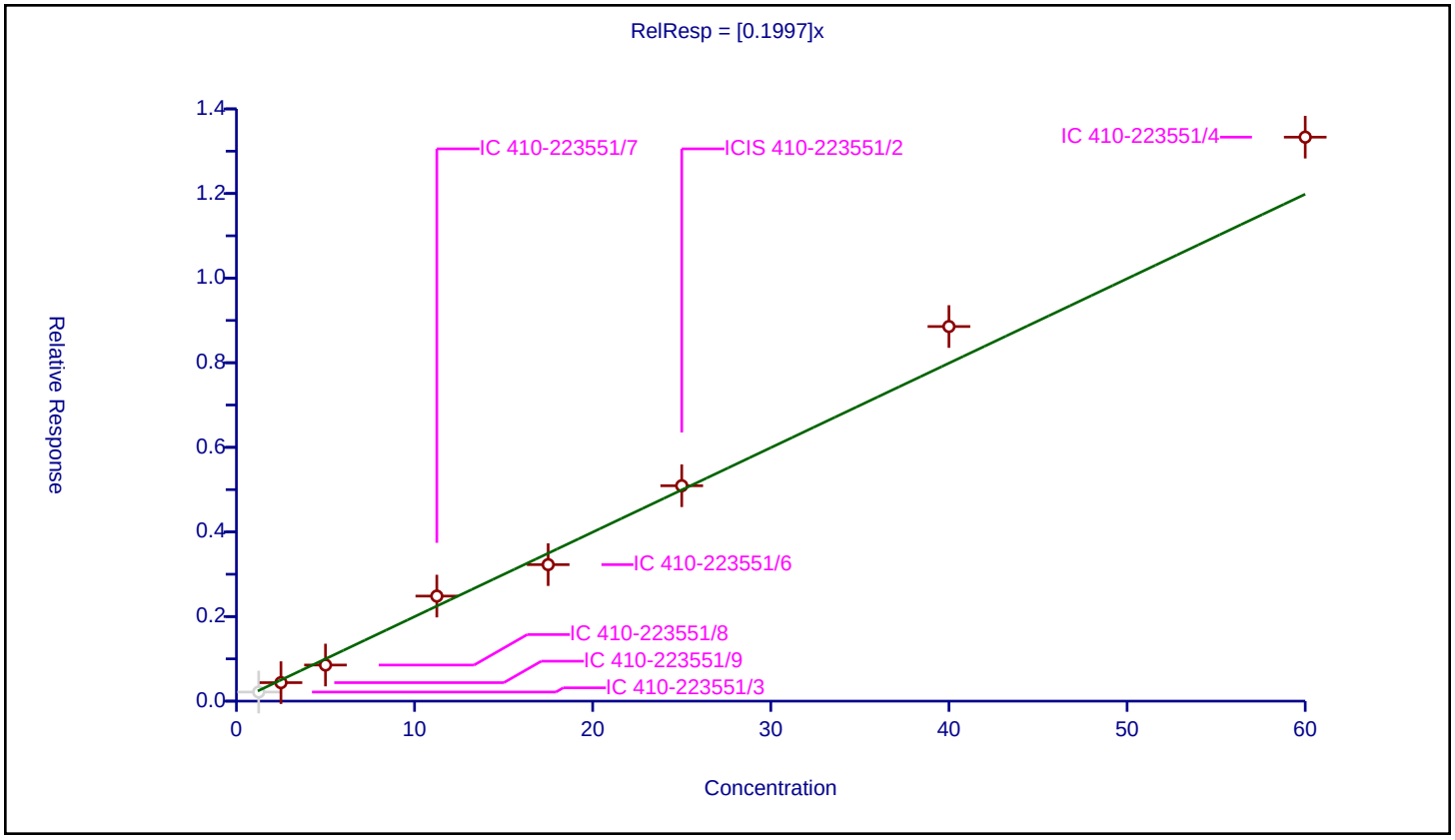
Curve Coefficients

Intercept:	0
Slope:	0.1997

Error Coefficients

Standard Error:	542000
Relative Standard Error:	11.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	1.25	0.215081	5.0	359794.0	0.172065	N
2	IC 410-223551/9	2.5	0.437445	5.0	357336.0	0.174978	Y
3	IC 410-223551/8	5.0	0.853665	5.0	352164.0	0.170733	Y
4	IC 410-223551/7	11.25	2.483272	5.0	329545.0	0.220735	Y
5	IC 410-223551/6	17.5	3.226827	5.0	487169.0	0.18439	Y
6	ICIS 410-223551/2	25.0	5.092152	5.0	423864.0	0.203686	Y
7	IC 410-223551/5	40.0	8.855307	5.0	367697.0	0.221383	Y
8	IC 410-223551/4	60.0	13.332243	5.0	378916.0	0.222204	Y



Calibration / 4-Nitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

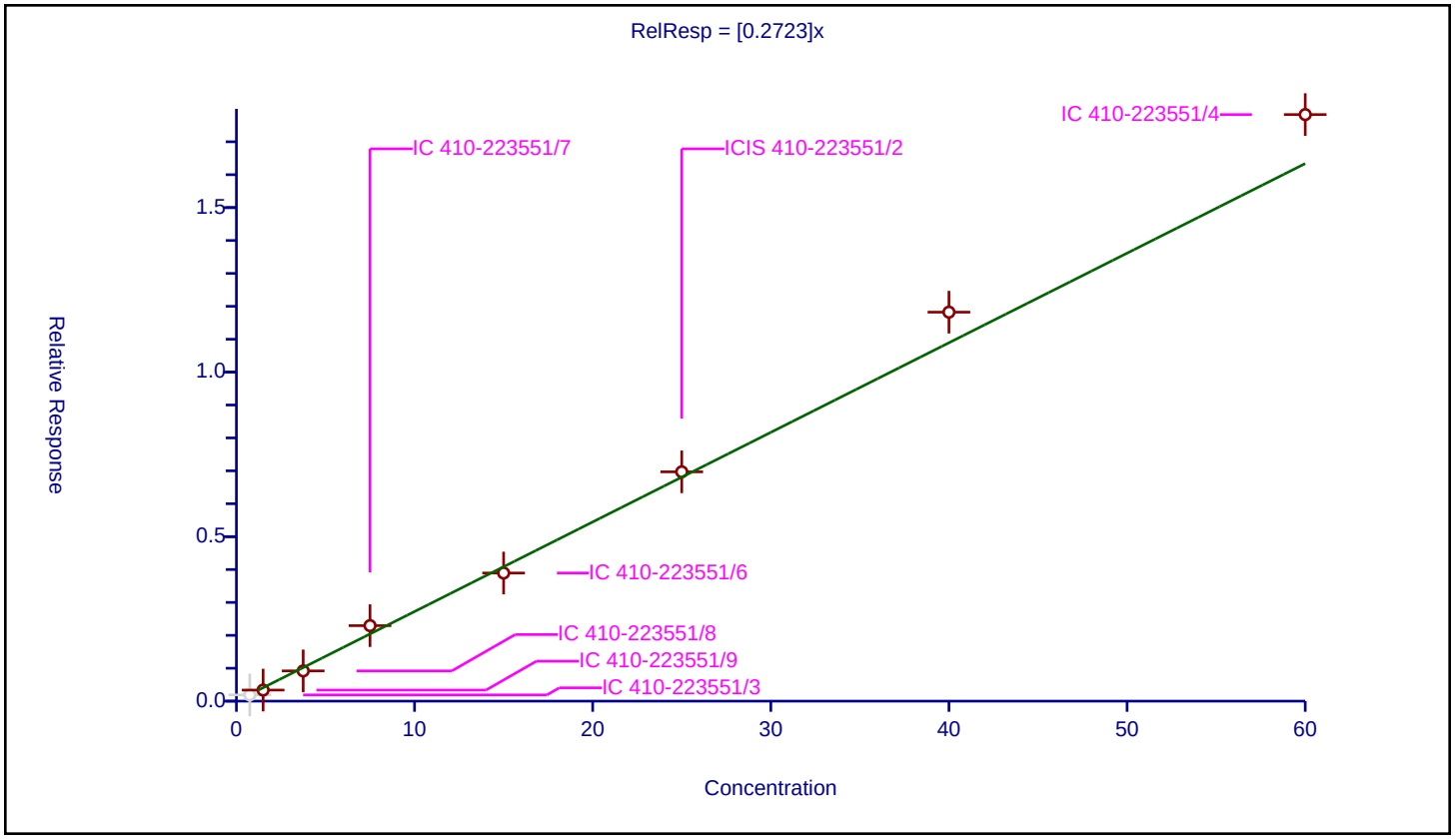
Curve Coefficients

Intercept:	0
Slope:	0.2723

Error Coefficients

Standard Error:	719000
Relative Standard Error:	11.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.75	0.189553	5.0	359794.0	0.252737	N
2	IC 410-223551/9	1.5	0.336014	5.0	357336.0	0.22401	Y
3	IC 410-223551/8	3.75	0.919004	5.0	352164.0	0.245068	Y
4	IC 410-223551/7	7.5	2.294512	5.0	329545.0	0.305935	Y
5	IC 410-223551/6	15.0	3.894367	5.0	487169.0	0.259624	Y
6	ICIS 410-223551/2	25.0	6.969346	5.0	423864.0	0.278774	Y
7	IC 410-223551/5	40.0	11.82218	5.0	367697.0	0.295554	Y
8	IC 410-223551/4	60.0	17.826787	5.0	378916.0	0.297113	Y



Calibration / Pentachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

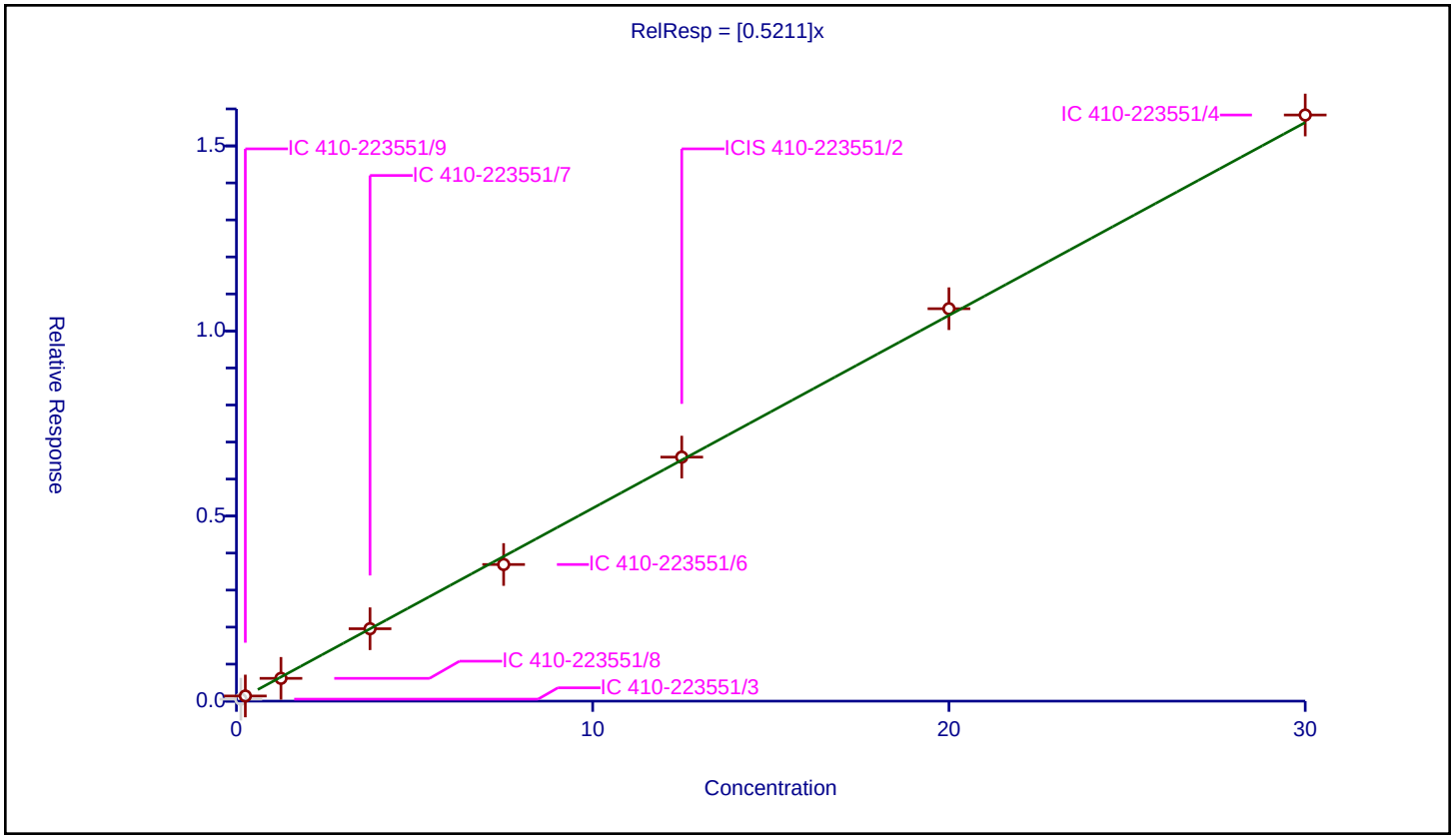
Curve Coefficients

Intercept:	0
Slope:	0.5211

Error Coefficients

Standard Error:	647000
Relative Standard Error:	4.3
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.053392	5.0	359794.0	0.427133	N
2	IC 410-223551/9	0.25	0.138973	5.0	357336.0	0.555891	Y
3	IC 410-223551/8	1.25	0.615807	5.0	352164.0	0.492645	Y
4	IC 410-223551/7	3.75	1.956167	5.0	329545.0	0.521644	Y
5	IC 410-223551/6	7.5	3.691696	5.0	487169.0	0.492226	Y
6	ICIS 410-223551/2	12.5	6.592858	5.0	423864.0	0.527429	Y
7	IC 410-223551/5	20.0	10.601963	5.0	367697.0	0.530098	Y
8	IC 410-223551/4	30.0	15.835475	5.0	378916.0	0.527849	Y



Calibration / 2,4-Dinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

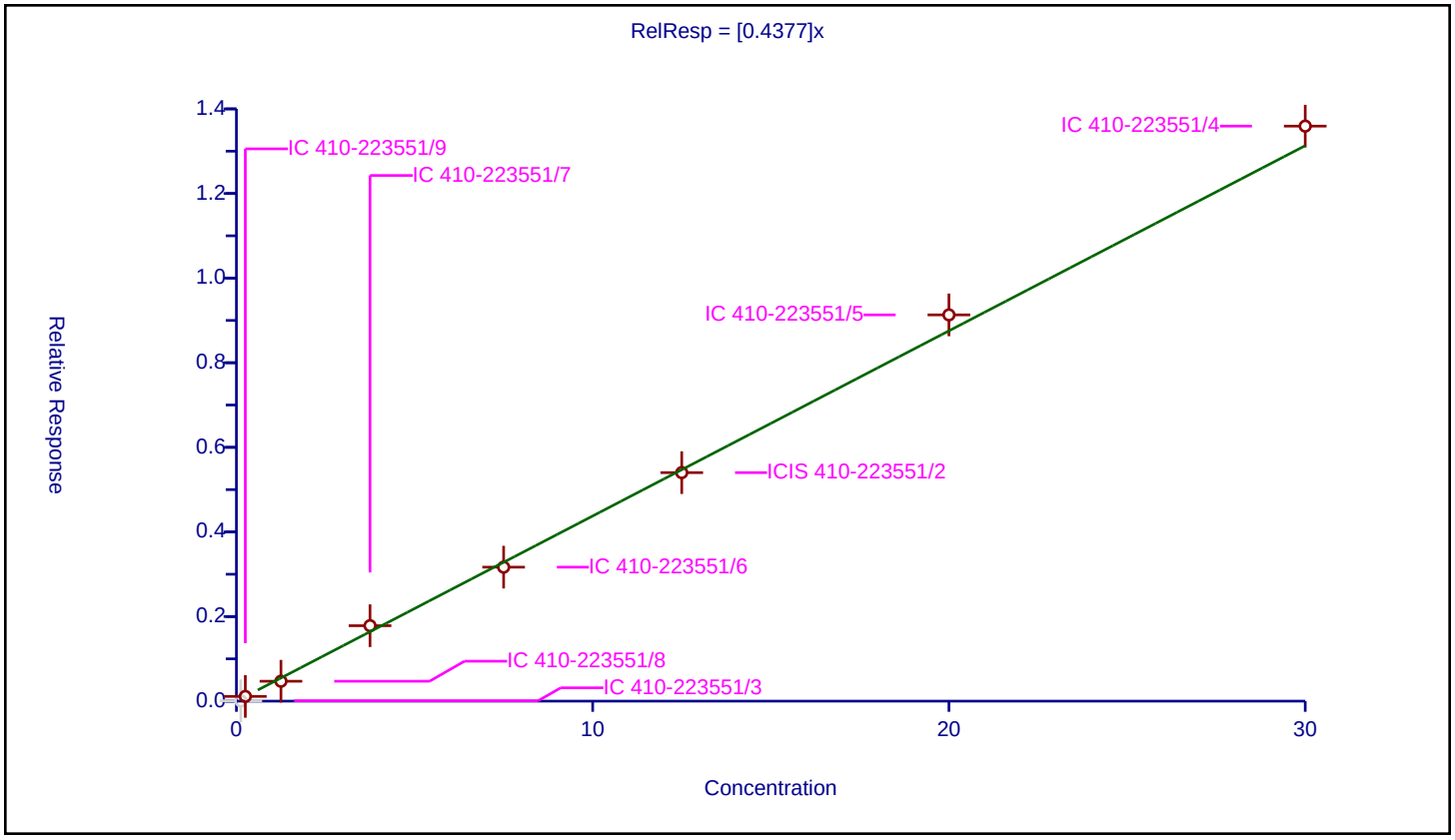
Curve Coefficients

Intercept:	0
Slope:	0.4377

Error Coefficients

Standard Error:	553000
Relative Standard Error:	7.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.007602	5.0	359794.0	0.060813	N
2	IC 410-223551/9	0.25	0.111883	5.0	357336.0	0.447534	Y
3	IC 410-223551/8	1.25	0.470818	5.0	352164.0	0.376654	Y
4	IC 410-223551/7	3.75	1.783413	5.0	329545.0	0.475577	Y
5	IC 410-223551/6	7.5	3.167463	5.0	487169.0	0.422328	Y
6	ICIS 410-223551/2	12.5	5.40132	5.0	423864.0	0.432106	Y
7	IC 410-223551/5	20.0	9.130643	5.0	367697.0	0.456532	Y
8	IC 410-223551/4	30.0	13.59267	5.0	378916.0	0.453089	Y



Calibration / Dibenzofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

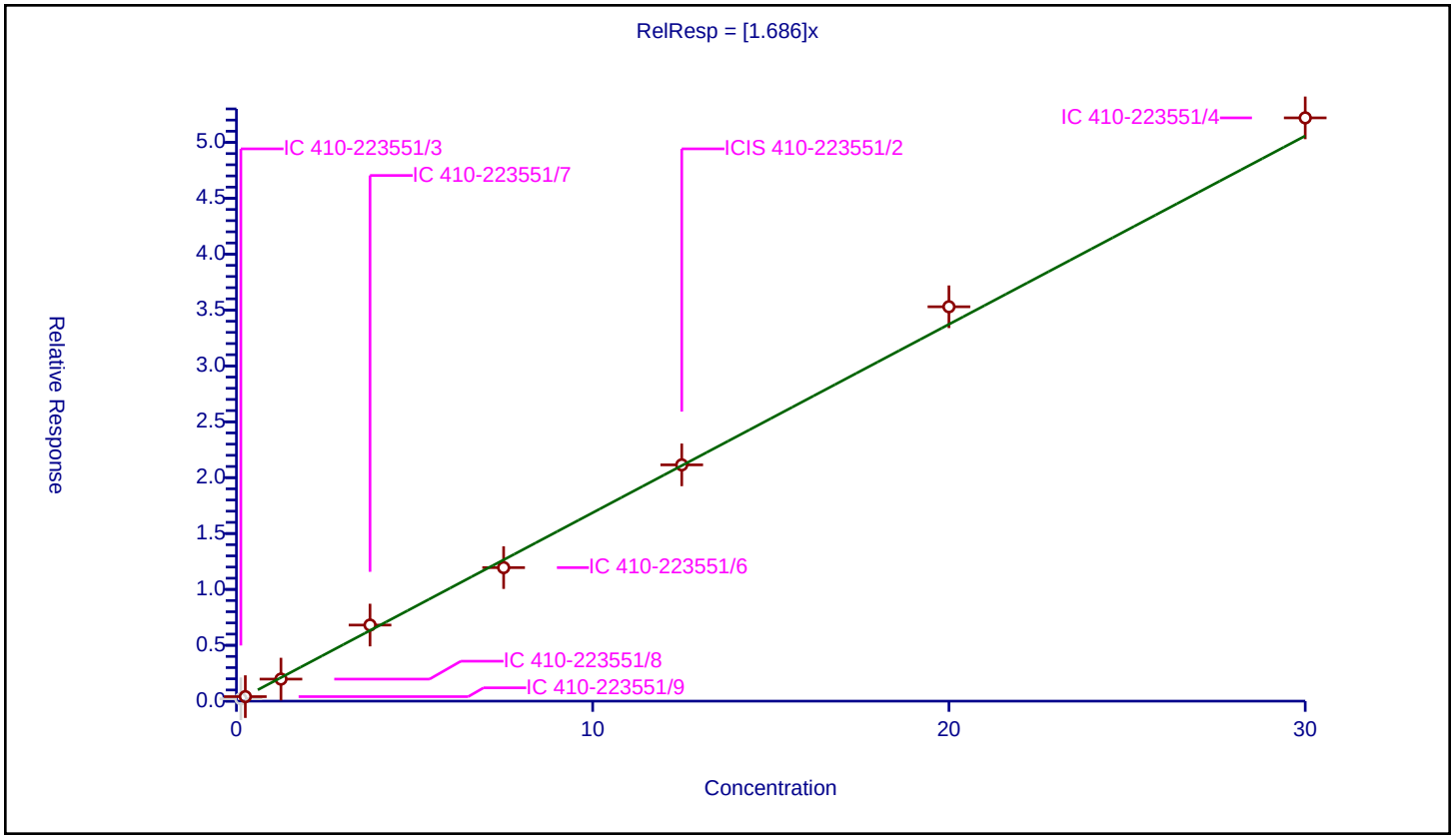
Curve Coefficients

Intercept:	0
Slope:	1.686

Error Coefficients

Standard Error:	2130000
Relative Standard Error:	5.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.212233	5.0	359794.0	1.69786	N
2	IC 410-223551/9	0.25	0.404969	5.0	357336.0	1.619876	Y
3	IC 410-223551/8	1.25	1.972334	5.0	352164.0	1.577867	Y
4	IC 410-223551/7	3.75	6.809389	5.0	329545.0	1.815837	Y
5	IC 410-223551/6	7.5	11.949344	5.0	487169.0	1.593246	Y
6	ICIS 410-223551/2	12.5	21.144424	5.0	423864.0	1.691554	Y
7	IC 410-223551/5	20.0	35.292415	5.0	367697.0	1.764621	Y
8	IC 410-223551/4	30.0	52.197849	5.0	378916.0	1.739928	Y



Calibration / 1-Naphthylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

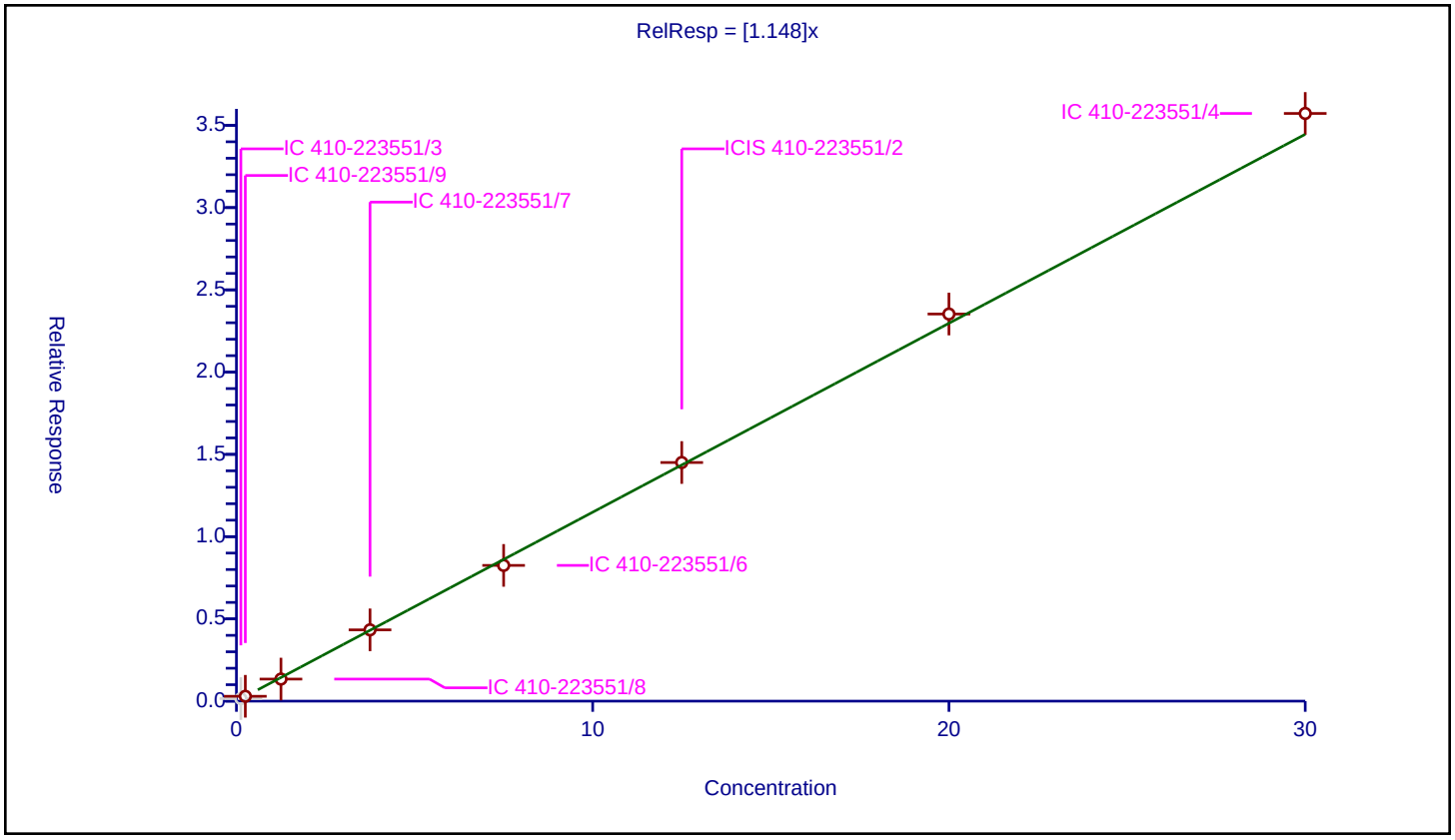
Curve Coefficients

Intercept:	0
Slope:	1.148

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	3.9
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.153838	5.0	359794.0	1.230704	N
2	IC 410-223551/9	0.25	0.295772	5.0	357336.0	1.183088	Y
3	IC 410-223551/8	1.25	1.340966	5.0	352164.0	1.072773	Y
4	IC 410-223551/7	3.75	4.333733	5.0	329545.0	1.155662	Y
5	IC 410-223551/6	7.5	8.250874	5.0	487169.0	1.100117	Y
6	ICIS 410-223551/2	12.5	14.505797	5.0	423864.0	1.160464	Y
7	IC 410-223551/5	20.0	23.531399	5.0	367697.0	1.17657	Y
8	IC 410-223551/4	30.0	35.723036	5.0	378916.0	1.190768	Y



Calibration / 2,3,4,6-Tetrachlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

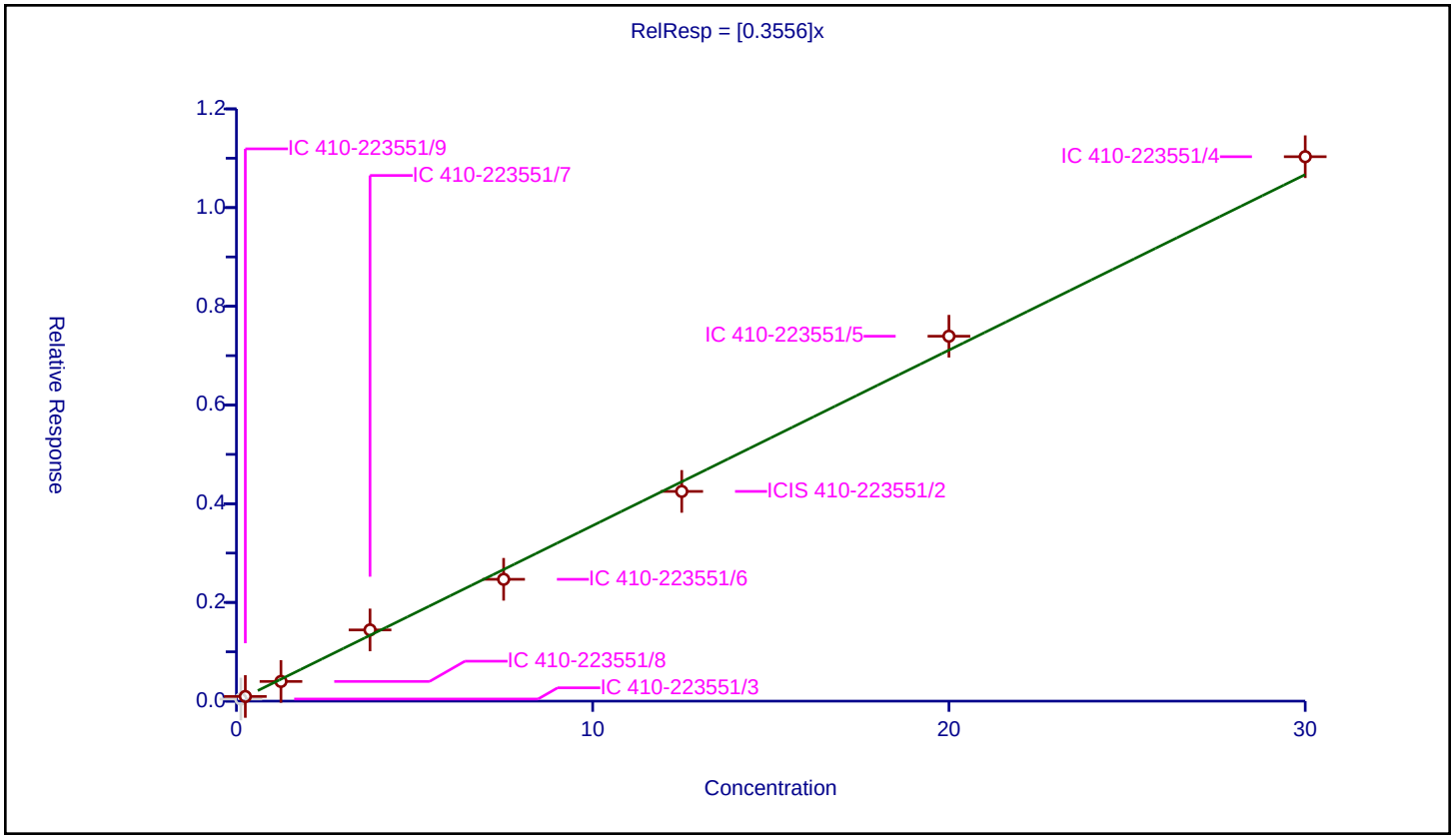
Curve Coefficients

Intercept:	0
Slope:	0.3556

Error Coefficients

Standard Error:	446000
Relative Standard Error:	7.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.043052	5.0	359794.0	0.344419	N
2	IC 410-223551/9	0.25	0.094715	5.0	357336.0	0.378859	Y
3	IC 410-223551/8	1.25	0.399075	5.0	352164.0	0.31926	Y
4	IC 410-223551/7	3.75	1.442868	5.0	329545.0	0.384765	Y
5	IC 410-223551/6	7.5	2.468661	5.0	487169.0	0.329155	Y
6	ICIS 410-223551/2	12.5	4.249665	5.0	423864.0	0.339973	Y
7	IC 410-223551/5	20.0	7.394322	5.0	367697.0	0.369716	Y
8	IC 410-223551/4	30.0	11.031178	5.0	378916.0	0.367706	Y



Calibration / 2-Naphthylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

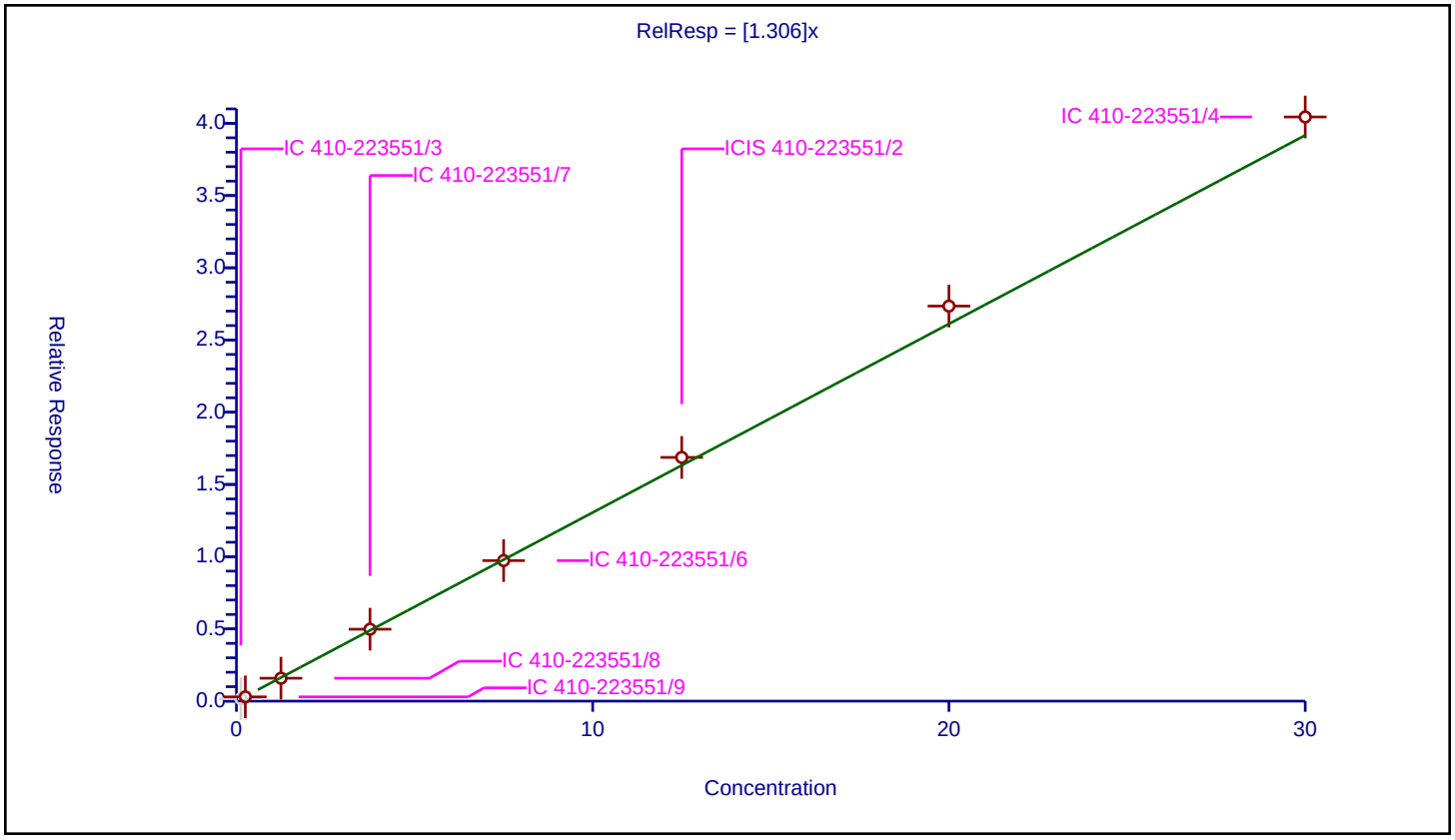
Curve Coefficients

Intercept:	0
Slope:	1.306

Error Coefficients

Standard Error:	1660000
Relative Standard Error:	4.9
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.170695	5.0	359794.0	1.365559	N
2	IC 410-223551/9	0.25	0.295226	5.0	357336.0	1.180905	Y
3	IC 410-223551/8	1.25	1.586363	5.0	352164.0	1.269091	Y
4	IC 410-223551/7	3.75	4.97929	5.0	329545.0	1.327811	Y
5	IC 410-223551/6	7.5	9.729334	5.0	487169.0	1.297245	Y
6	ICIS 410-223551/2	12.5	16.87382	5.0	423864.0	1.349906	Y
7	IC 410-223551/5	20.0	27.348387	5.0	367697.0	1.367419	Y
8	IC 410-223551/4	30.0	40.441971	5.0	378916.0	1.348066	Y



Calibration / Diethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

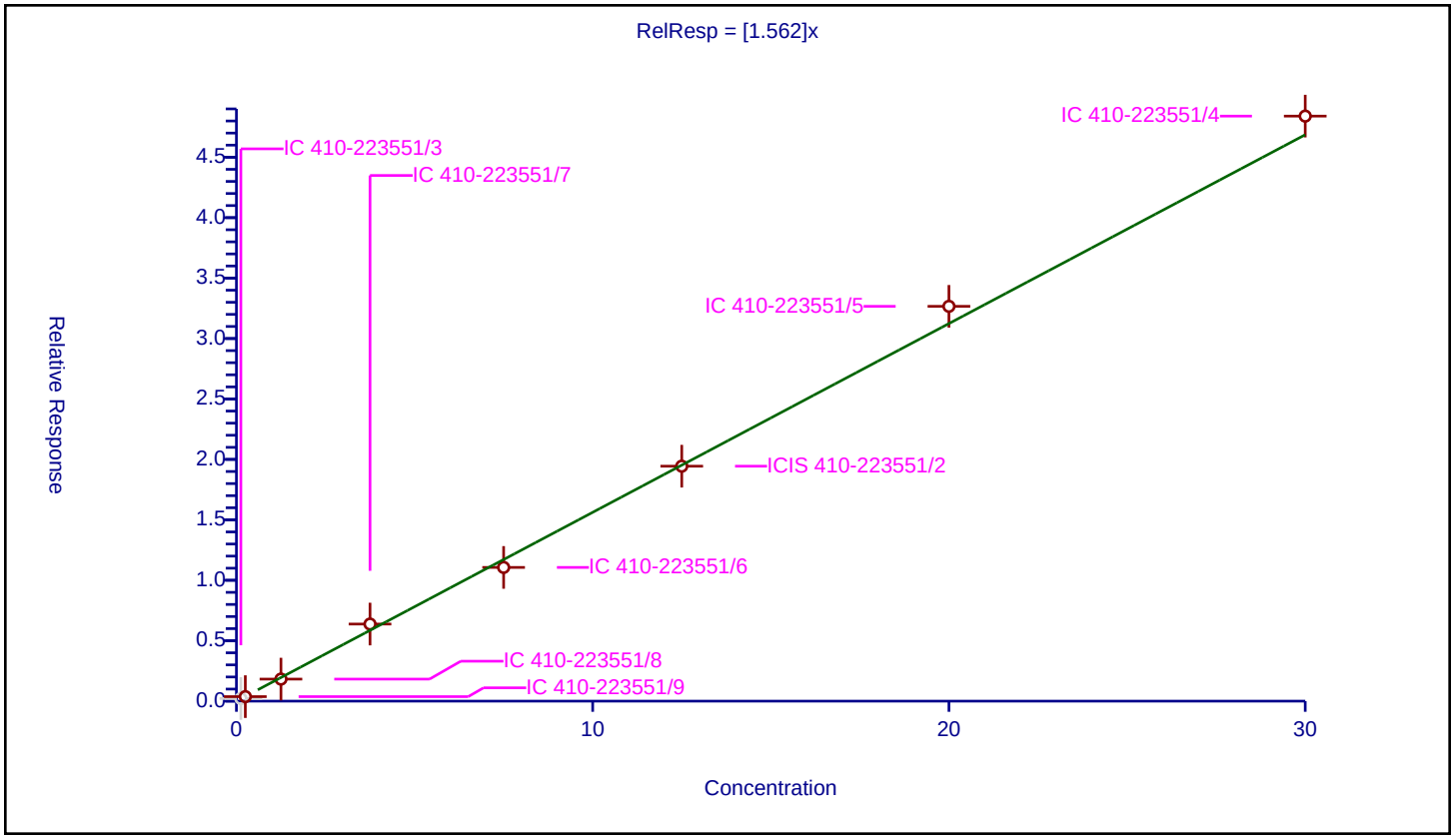
Curve Coefficients

Intercept:	0
Slope:	1.562

Error Coefficients

Standard Error:	1970000
Relative Standard Error:	5.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.216485	5.0	359794.0	1.73188	N
2	IC 410-223551/9	0.25	0.374354	5.0	357336.0	1.497414	Y
3	IC 410-223551/8	1.25	1.82398	5.0	352164.0	1.459184	Y
4	IC 410-223551/7	3.75	6.377247	5.0	329545.0	1.700599	Y
5	IC 410-223551/6	7.5	11.062229	5.0	487169.0	1.474964	Y
6	ICIS 410-223551/2	12.5	19.439903	5.0	423864.0	1.555192	Y
7	IC 410-223551/5	20.0	32.664096	5.0	367697.0	1.633205	Y
8	IC 410-223551/4	30.0	48.401928	5.0	378916.0	1.613398	Y



Calibration / Thionazin

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

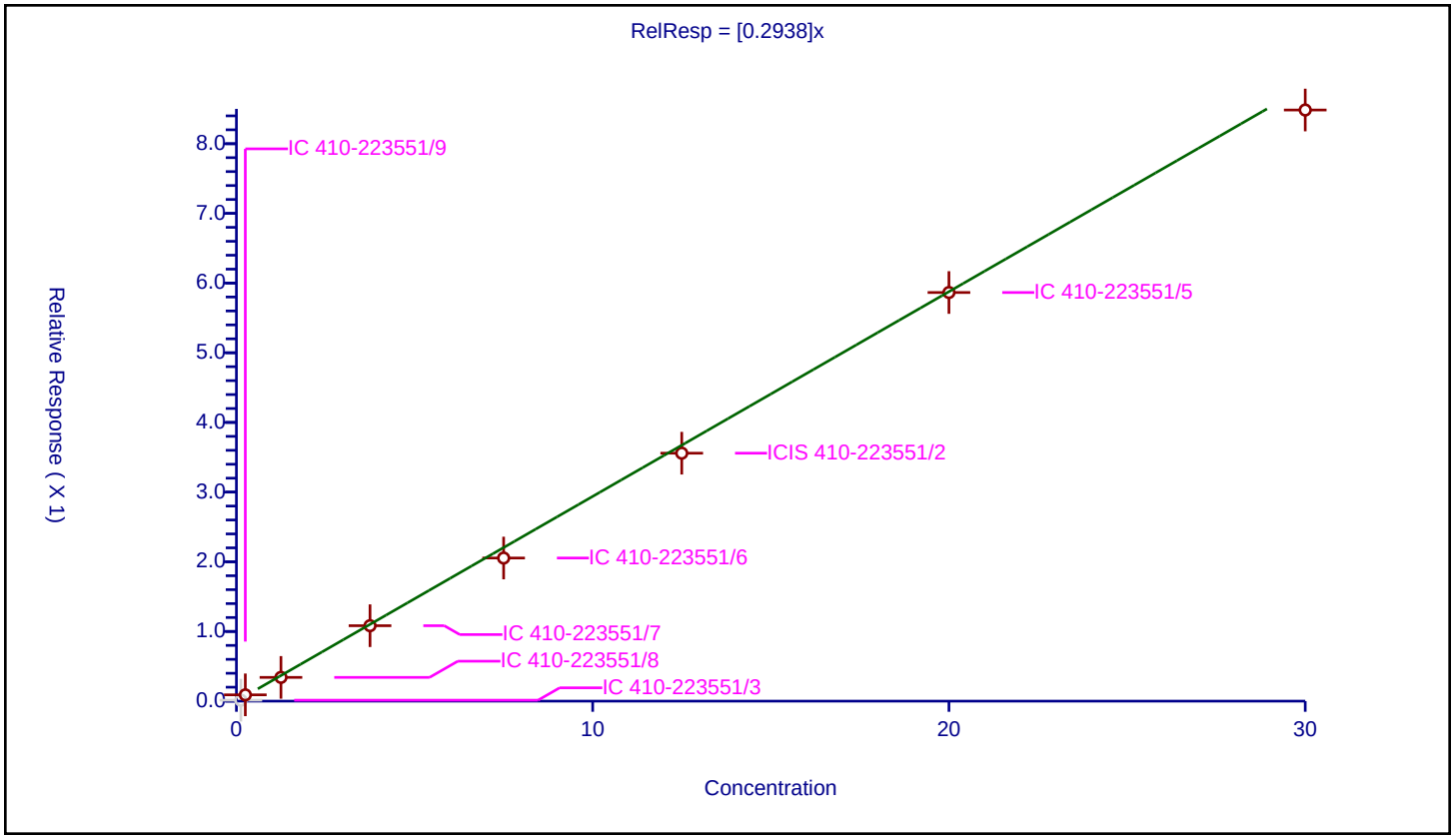
Curve Coefficients

Intercept:	0
Slope:	0.2938

Error Coefficients

Standard Error:	350000
Relative Standard Error:	10.4
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.013744	5.0	359794.0	0.109952	N
2	IC 410-223551/9	0.25	0.090209	5.0	357336.0	0.360837	Y
3	IC 410-223551/8	1.25	0.340963	5.0	352164.0	0.272771	Y
4	IC 410-223551/7	3.75	1.082766	5.0	329545.0	0.288738	Y
5	IC 410-223551/6	7.5	2.053907	5.0	487169.0	0.273854	Y
6	ICIS 410-223551/2	12.5	3.558783	5.0	423864.0	0.284703	Y
7	IC 410-223551/5	20.0	5.864679	5.0	367697.0	0.293234	Y
8	IC 410-223551/4	30.0	8.483978	5.0	378916.0	0.282799	Y



Calibration / Fluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

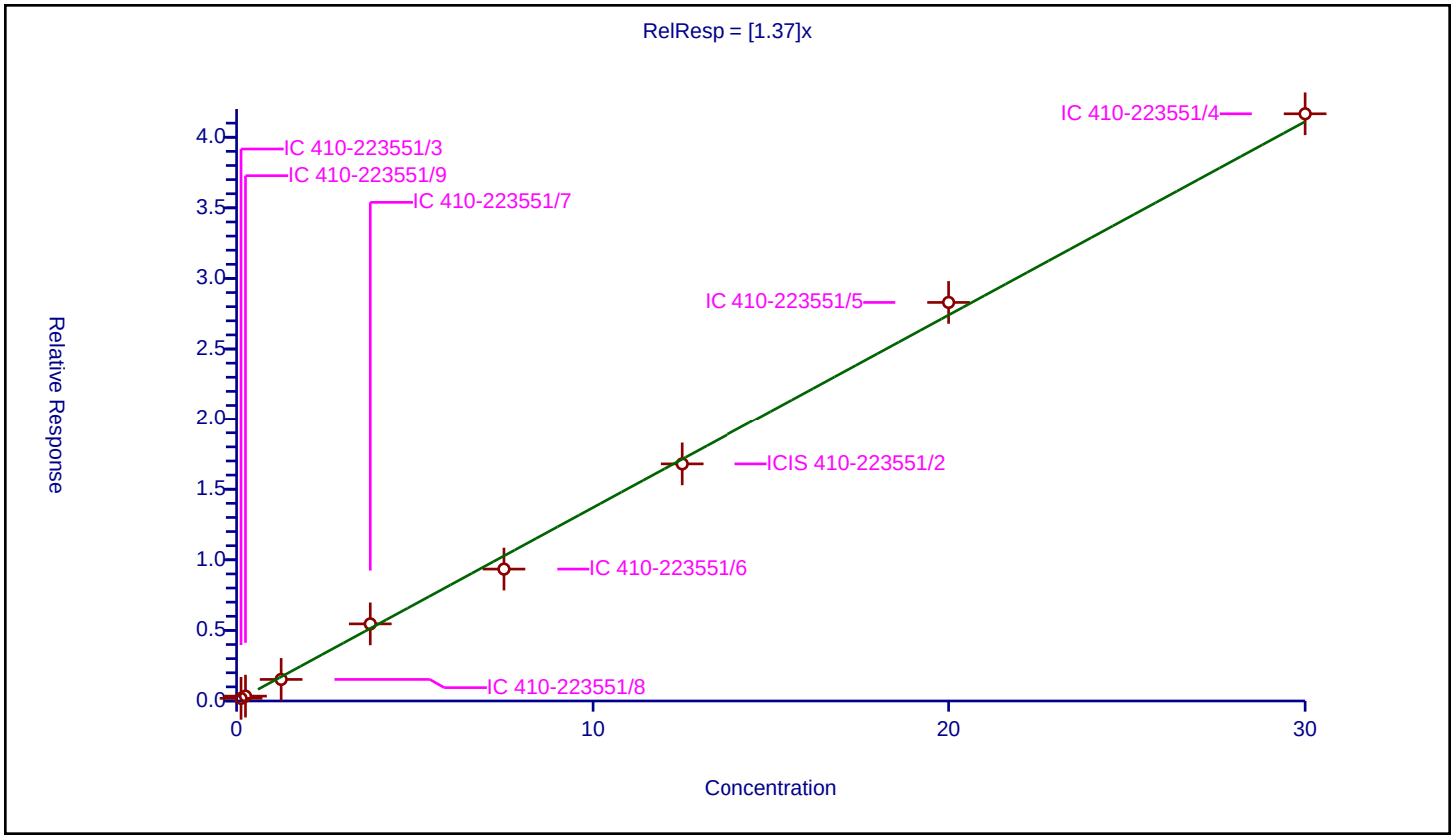
Curve Coefficients

Intercept:	0
Slope:	1.37

Error Coefficients

Standard Error:	1570000
Relative Standard Error:	7.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.188816	5.0	359794.0	1.510531	Y
2	IC 410-223551/9	0.25	0.345095	5.0	357336.0	1.380381	Y
3	IC 410-223551/8	1.25	1.527726	5.0	352164.0	1.222181	Y
4	IC 410-223551/7	3.75	5.460787	5.0	329545.0	1.45621	Y
5	IC 410-223551/6	7.5	9.342189	5.0	487169.0	1.245625	Y
6	ICIS 410-223551/2	12.5	16.793995	5.0	423864.0	1.34352	Y
7	IC 410-223551/5	20.0	28.301115	5.0	367697.0	1.415056	Y
8	IC 410-223551/4	30.0	41.662558	5.0	378916.0	1.388752	Y



Calibration / 4-Chlorophenyl phenyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

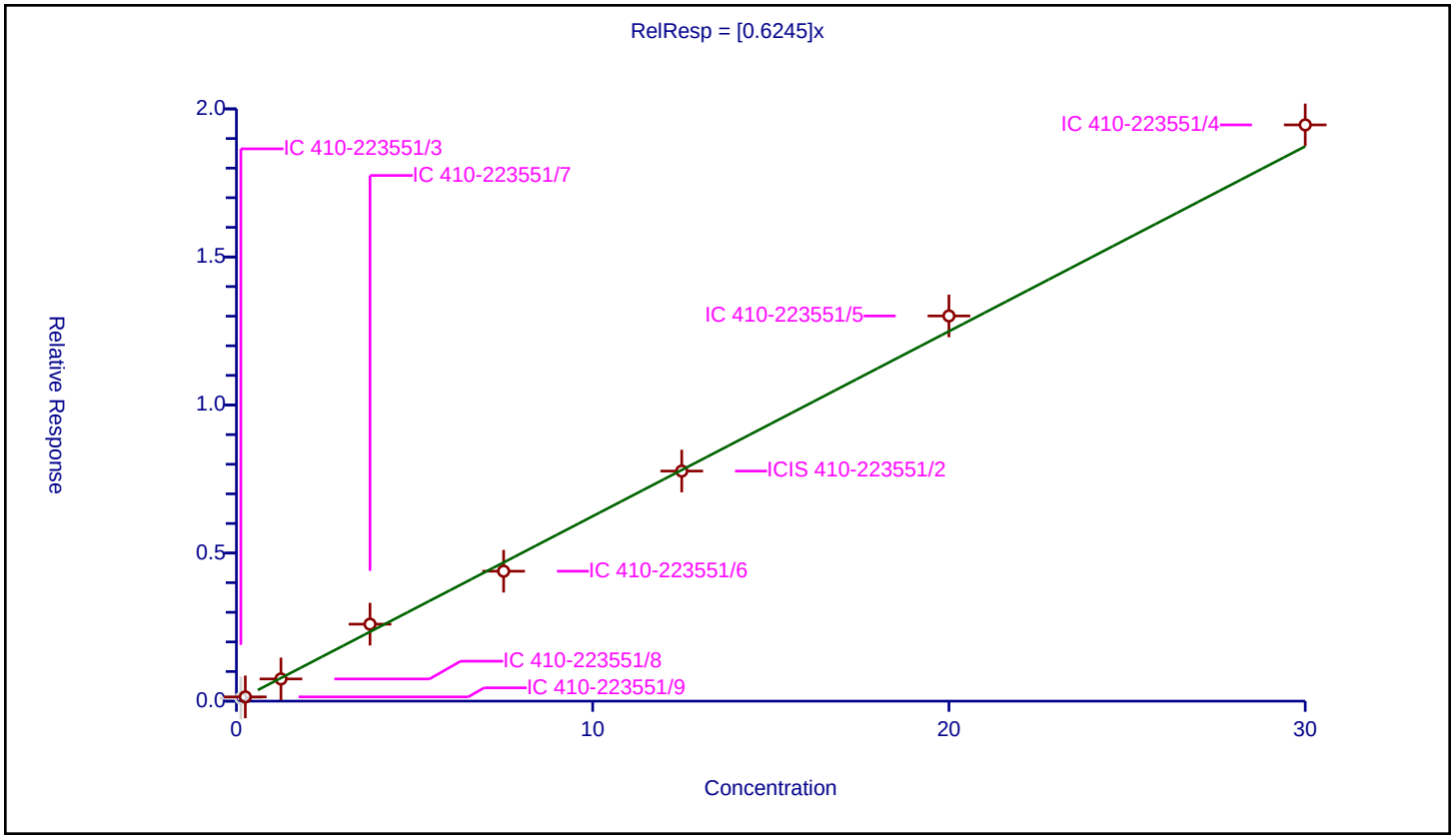
Curve Coefficients

Intercept:	0
Slope:	0.6245

Error Coefficients

Standard Error:	789000
Relative Standard Error:	6.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.101183	5.0	359794.0	0.809463	N
2	IC 410-223551/9	0.25	0.143213	5.0	357336.0	0.57285	Y
3	IC 410-223551/8	1.25	0.749381	5.0	352164.0	0.599505	Y
4	IC 410-223551/7	3.75	2.599797	5.0	329545.0	0.693279	Y
5	IC 410-223551/6	7.5	4.388179	5.0	487169.0	0.585091	Y
6	ICIS 410-223551/2	12.5	7.769544	5.0	423864.0	0.621564	Y
7	IC 410-223551/5	20.0	13.008143	5.0	367697.0	0.650407	Y
8	IC 410-223551/4	30.0	19.459854	5.0	378916.0	0.648662	Y



Calibration / N-Nitro-o-toluidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

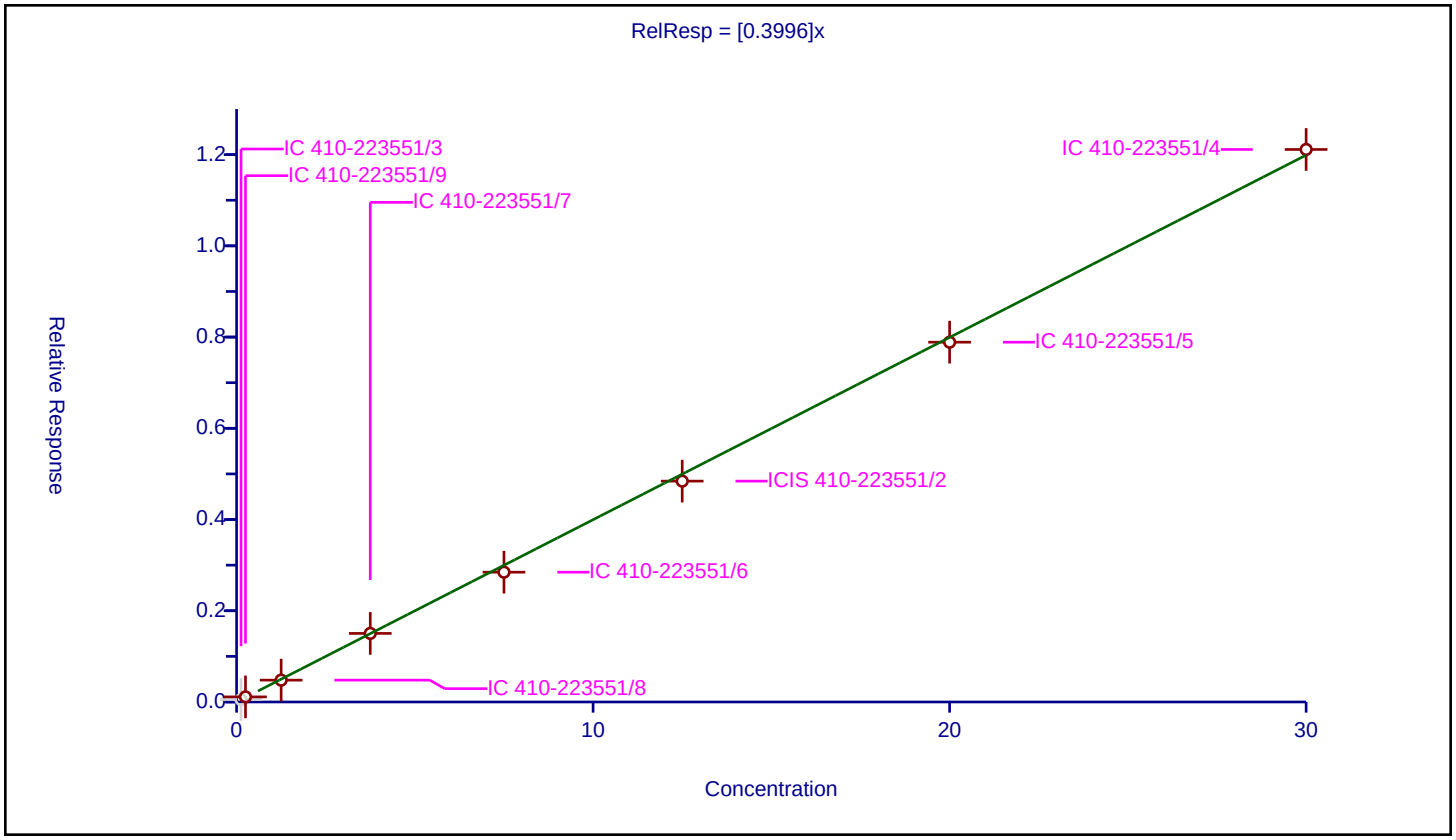
Curve Coefficients

Intercept:	0
Slope:	0.3996

Error Coefficients

Standard Error:	489000
Relative Standard Error:	5.8
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.053934	5.0	359794.0	0.431469	N
2	IC 410-223551/9	0.25	0.112093	5.0	357336.0	0.448374	Y
3	IC 410-223551/8	1.25	0.478939	5.0	352164.0	0.383151	Y
4	IC 410-223551/7	3.75	1.503619	5.0	329545.0	0.400965	Y
5	IC 410-223551/6	7.5	2.845912	5.0	487169.0	0.379455	Y
6	ICIS 410-223551/2	12.5	4.842013	5.0	423864.0	0.387361	Y
7	IC 410-223551/5	20.0	7.888084	5.0	367697.0	0.394404	Y
8	IC 410-223551/4	30.0	12.11341	5.0	378916.0	0.40378	Y



Calibration / 4-Nitroaniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

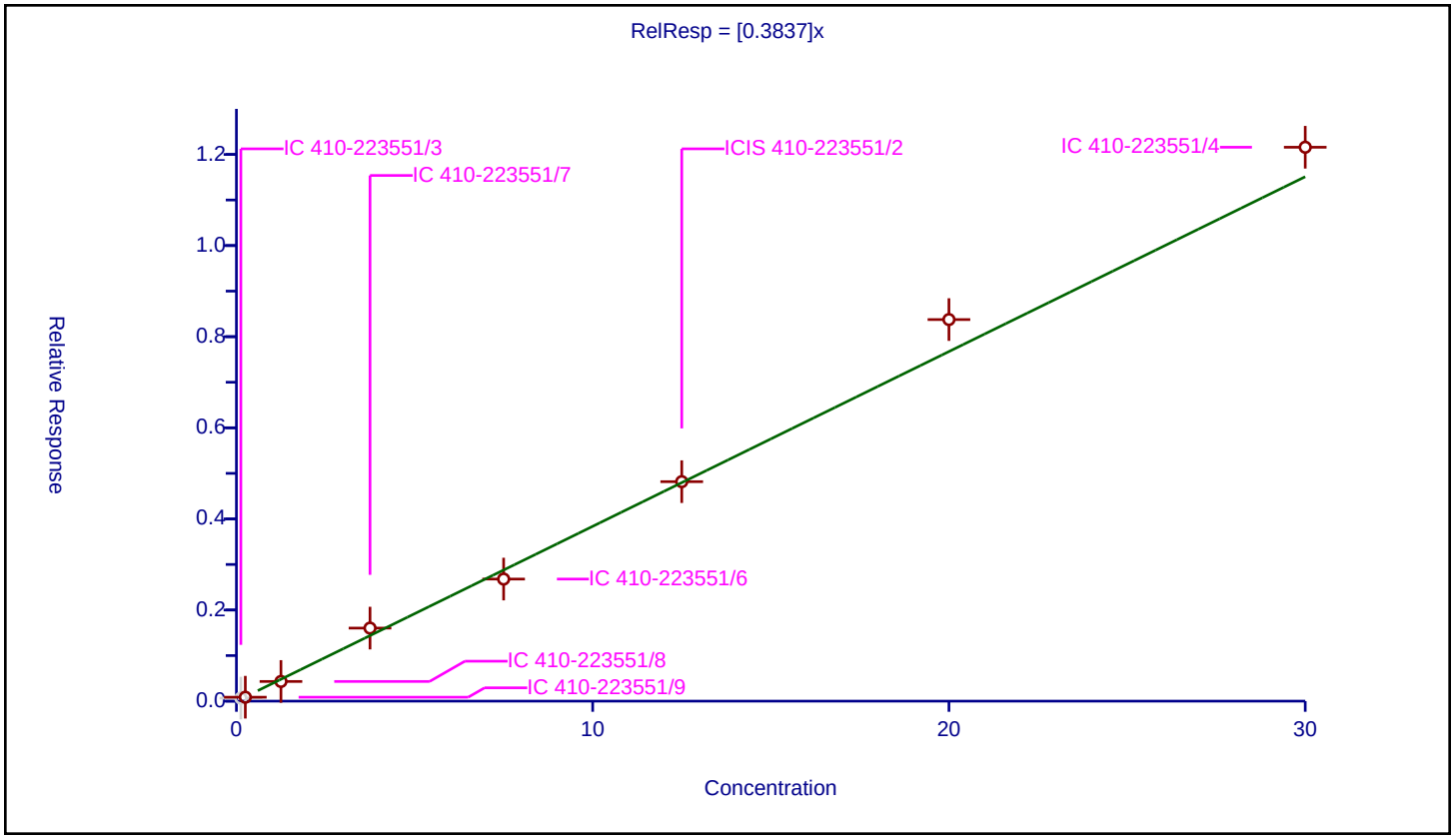
Curve Coefficients

Intercept:	0
Slope:	0.3837

Error Coefficients

Standard Error:	496000
Relative Standard Error:	9.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.06633	5.0	359794.0	0.530637	N
2	IC 410-223551/9	0.25	0.086487	5.0	357336.0	0.345949	Y
3	IC 410-223551/8	1.25	0.431944	5.0	352164.0	0.345555	Y
4	IC 410-223551/7	3.75	1.603256	5.0	329545.0	0.427535	Y
5	IC 410-223551/6	7.5	2.679778	5.0	487169.0	0.357304	Y
6	ICIS 410-223551/2	12.5	4.817854	5.0	423864.0	0.385428	Y
7	IC 410-223551/5	20.0	8.37566	5.0	367697.0	0.418783	Y
8	IC 410-223551/4	30.0	12.158249	5.0	378916.0	0.405275	Y



Calibration / 4,6-Dinitro-2-methylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

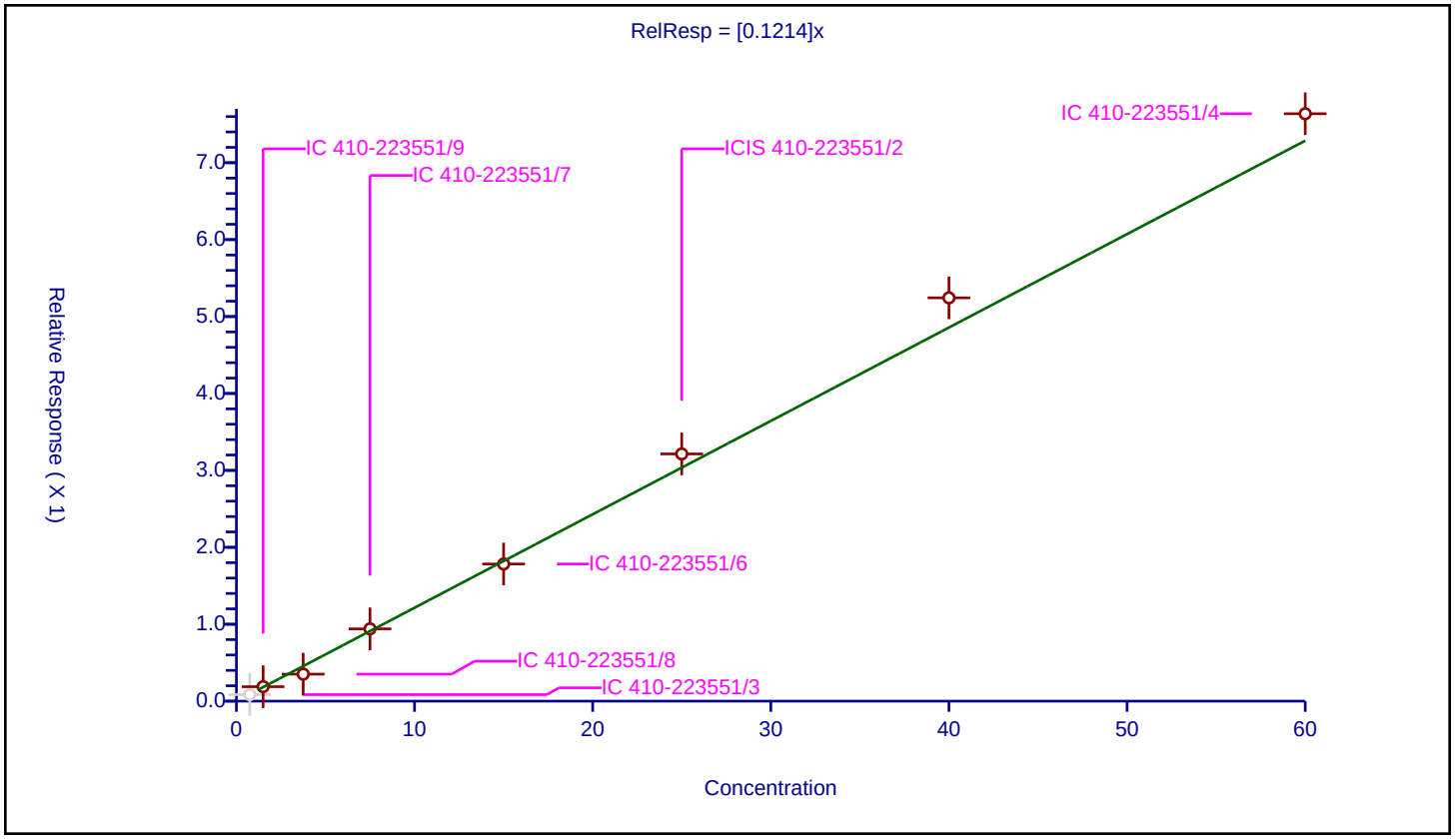
Curve Coefficients

Intercept:	0
Slope:	0.1214

Error Coefficients

Standard Error:	599000
Relative Standard Error:	10.6
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.75	0.084509	5.0	678213.0	0.112678	N
2	IC 410-223551/9	1.5	0.187989	5.0	689402.0	0.125326	Y
3	IC 410-223551/8	3.75	0.35098	5.0	683800.0	0.093595	Y
4	IC 410-223551/7	7.5	0.940099	5.0	635598.0	0.125347	Y
5	IC 410-223551/6	15.0	1.783142	5.0	903509.0	0.118876	Y
6	ICIS 410-223551/2	25.0	3.213927	5.0	791121.0	0.128557	Y
7	IC 410-223551/5	40.0	5.243611	5.0	694777.0	0.13109	Y
8	IC 410-223551/4	60.0	7.636944	5.0	729422.0	0.127282	Y



Calibration / N-Nitrosodiphenylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

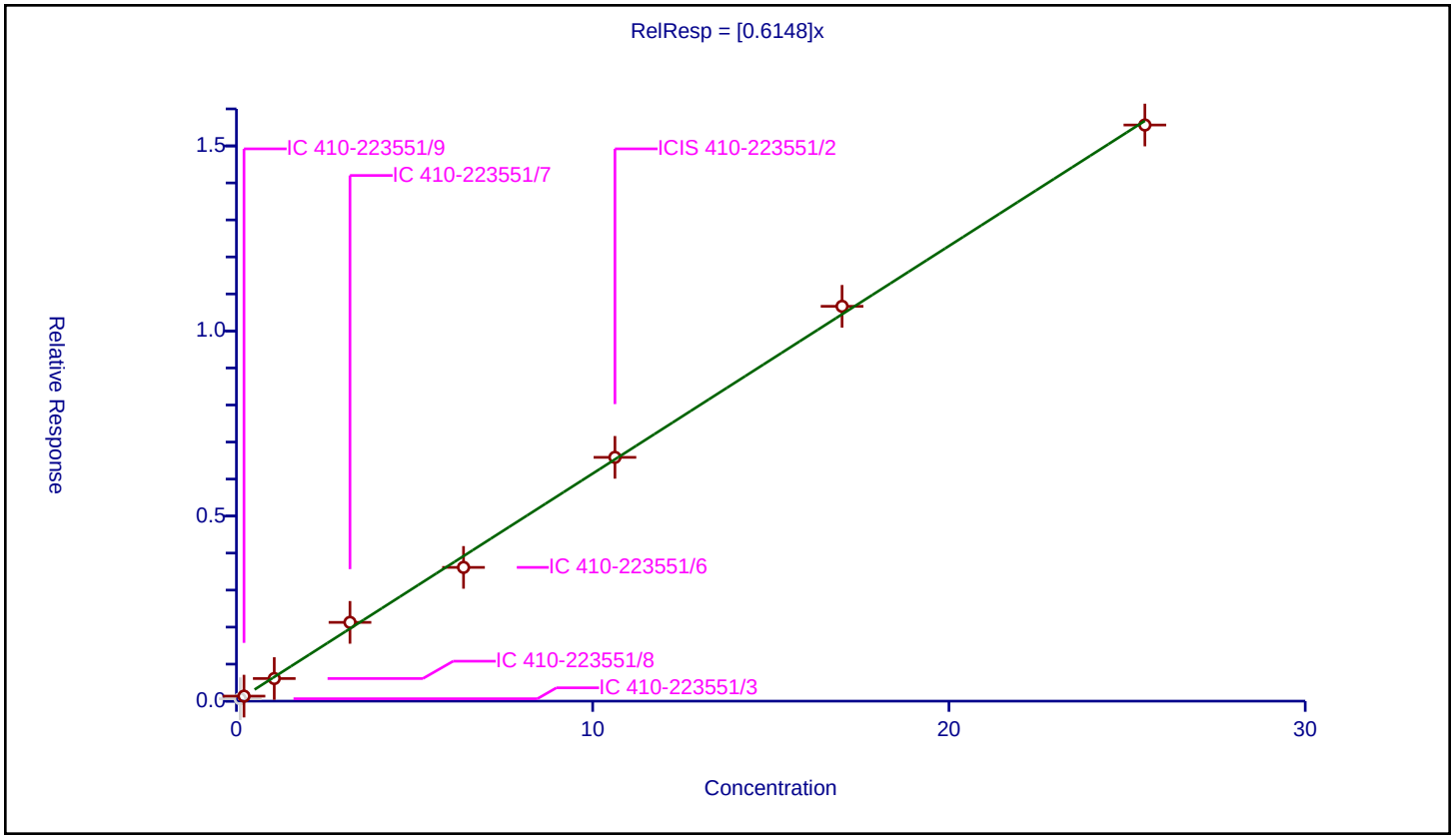
Curve Coefficients

Intercept:	0
Slope:	0.6148

Error Coefficients

Standard Error:	1220000
Relative Standard Error:	5.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.10625	0.065289	5.0	678213.0	0.614487	N
2	IC 410-223551/9	0.2125	0.135269	5.0	689402.0	0.636562	Y
3	IC 410-223551/8	1.0625	0.610566	5.0	683800.0	0.57465	Y
4	IC 410-223551/7	3.1875	2.128295	5.0	635598.0	0.6677	Y
5	IC 410-223551/6	6.375	3.613412	5.0	903509.0	0.56681	Y
6	ICIS 410-223551/2	10.625	6.586078	5.0	791121.0	0.619866	Y
7	IC 410-223551/5	17.0	10.666775	5.0	694777.0	0.627457	Y
8	IC 410-223551/4	25.5	15.56492	5.0	729422.0	0.610389	Y



Calibration / 1,2-Diphenylhydrazine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

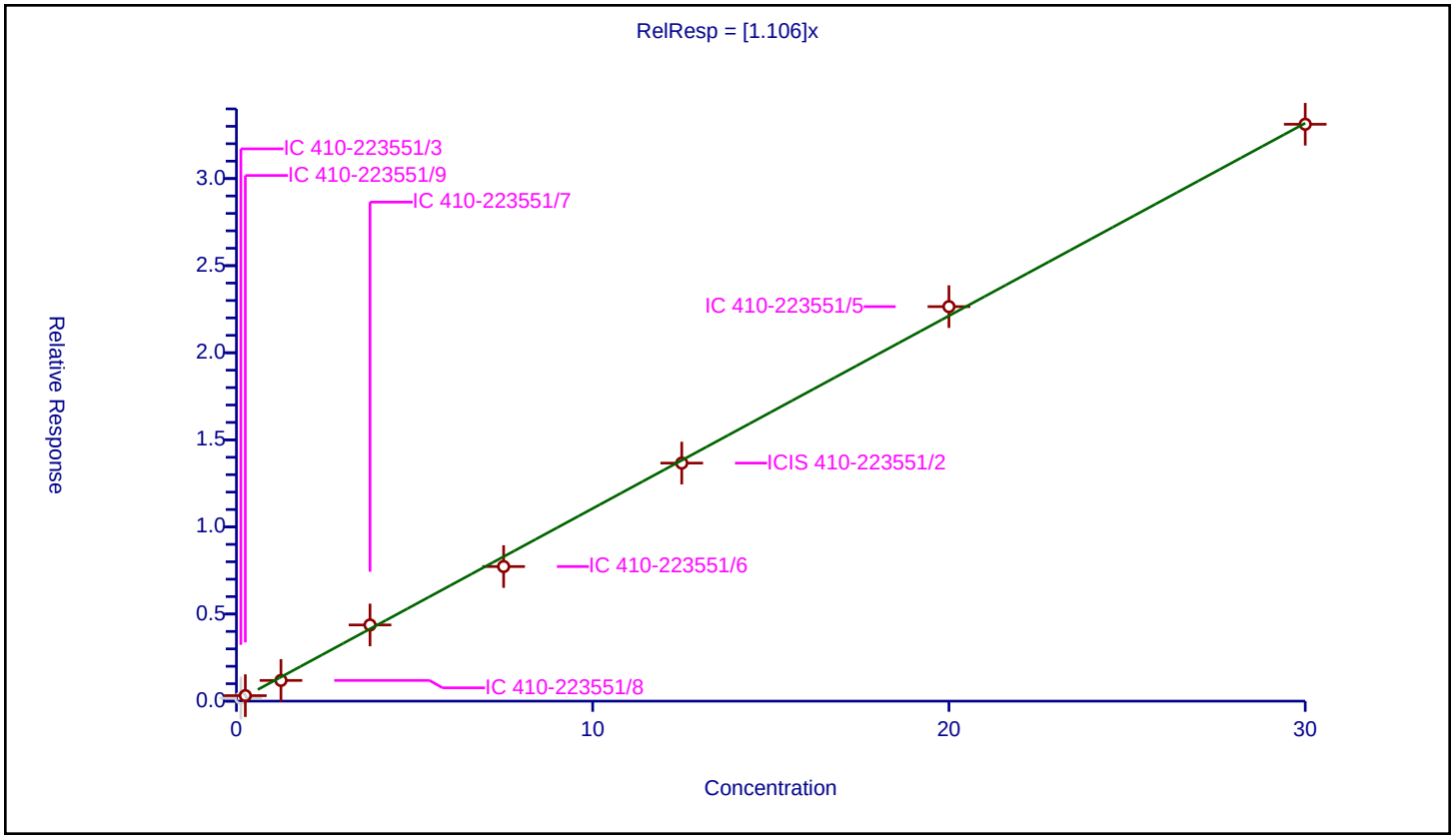
Curve Coefficients

Intercept:	0
Slope:	1.106

Error Coefficients

Standard Error:	2590000
Relative Standard Error:	9.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.173957	5.0	678213.0	1.391657	N
2	IC 410-223551/9	0.25	0.316165	5.0	689402.0	1.264661	Y
3	IC 410-223551/8	1.25	1.189039	5.0	683800.0	0.951231	Y
4	IC 410-223551/7	3.75	4.373802	5.0	635598.0	1.166347	Y
5	IC 410-223551/6	7.5	7.727123	5.0	903509.0	1.030283	Y
6	ICIS 410-223551/2	12.5	13.666038	5.0	791121.0	1.093283	Y
7	IC 410-223551/5	20.0	22.648742	5.0	694777.0	1.132437	Y
8	IC 410-223551/4	30.0	33.118051	5.0	729422.0	1.103935	Y



Calibration / Sulfotepp

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

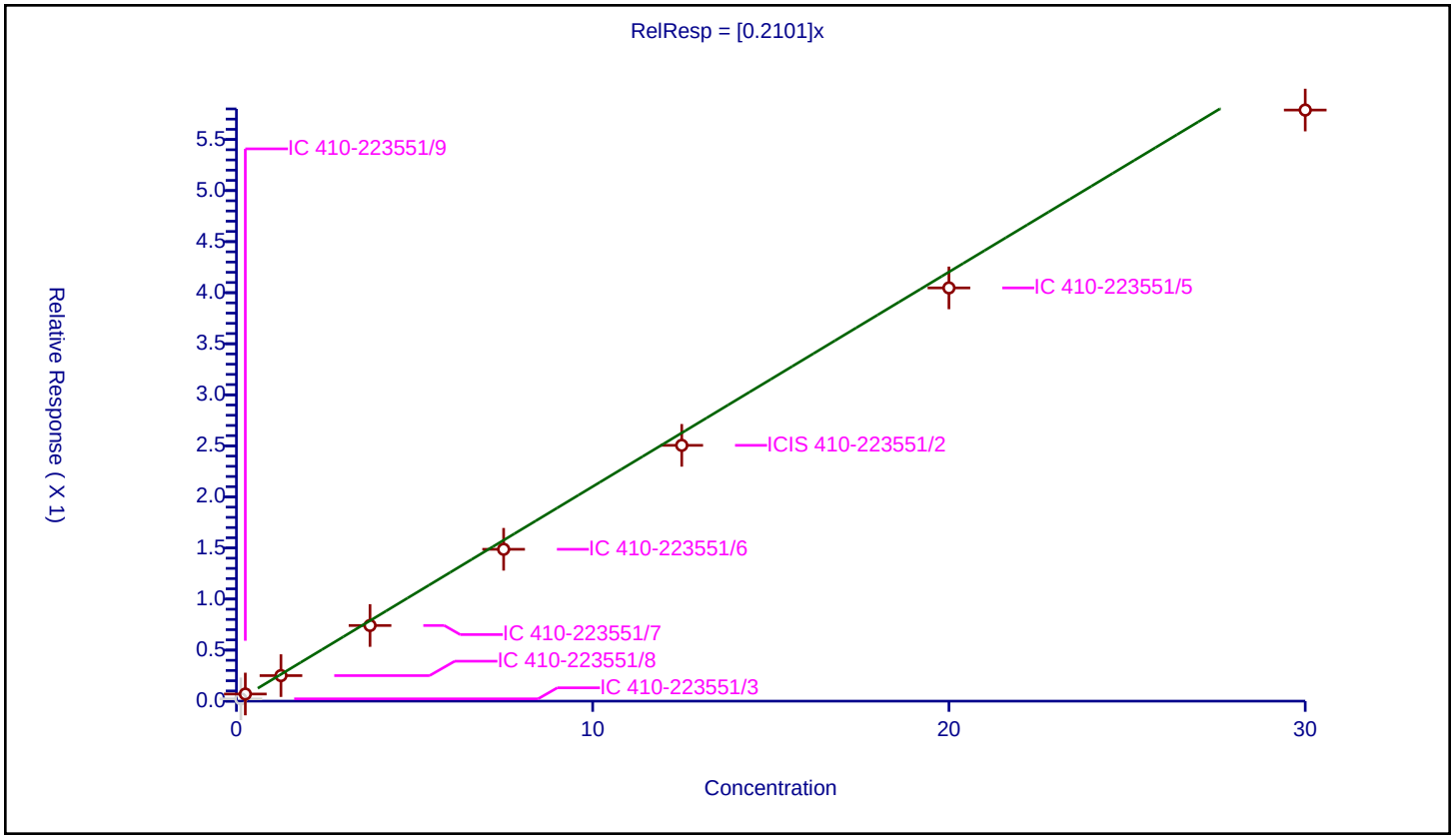
Curve Coefficients

Intercept:	0
Slope:	0.2101

Error Coefficients

Standard Error:	460000
Relative Standard Error:	14.6
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.022522	5.0	678213.0	0.180179	N
2	IC 410-223551/9	0.25	0.069865	5.0	689402.0	0.27946	Y
3	IC 410-223551/8	1.25	0.249912	5.0	683800.0	0.19993	Y
4	IC 410-223551/7	3.75	0.741019	5.0	635598.0	0.197605	Y
5	IC 410-223551/6	7.5	1.487174	5.0	903509.0	0.19829	Y
6	ICIS 410-223551/2	12.5	2.50511	5.0	791121.0	0.200409	Y
7	IC 410-223551/5	20.0	4.046874	5.0	694777.0	0.202344	Y
8	IC 410-223551/4	30.0	5.788686	5.0	729422.0	0.192956	Y



Calibration / 2,4,6-Tribromophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

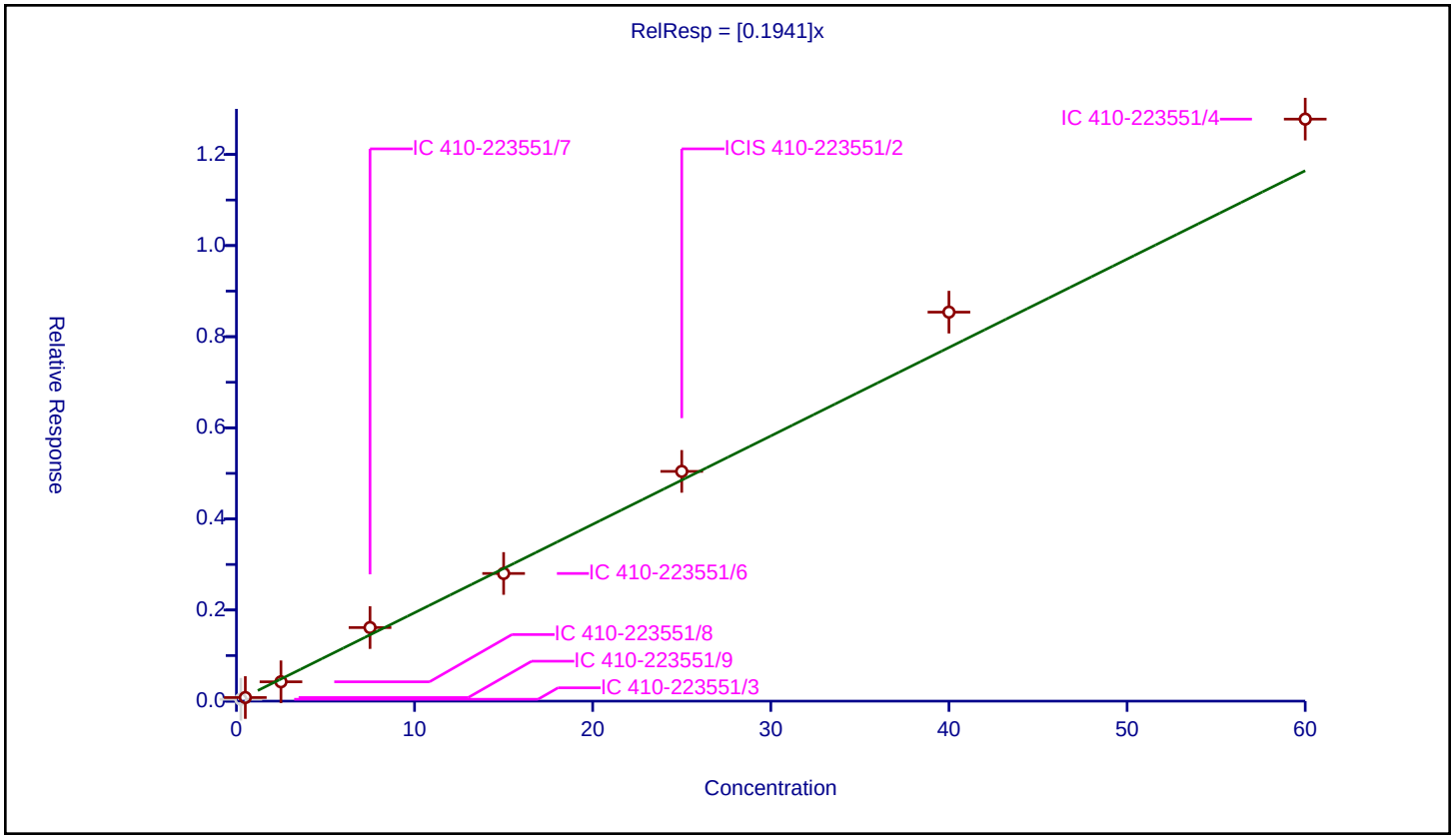
Curve Coefficients

Intercept:	0
Slope:	0.1941

Error Coefficients

Standard Error:	517000
Relative Standard Error:	11.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.25	0.041426	5.0	359794.0	0.165706	N
2	IC 410-223551/9	0.5	0.079085	5.0	357336.0	0.15817	Y
3	IC 410-223551/8	2.5	0.424816	5.0	352164.0	0.169927	Y
4	IC 410-223551/7	7.5	1.614817	5.0	329545.0	0.215309	Y
5	IC 410-223551/6	15.0	2.802682	5.0	487169.0	0.186845	Y
6	ICIS 410-223551/2	25.0	5.043151	5.0	423864.0	0.201726	Y
7	IC 410-223551/5	40.0	8.538715	5.0	367697.0	0.213468	Y
8	IC 410-223551/4	60.0	12.775483	5.0	378916.0	0.212925	Y



Calibration / 1,3,5-Trinitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

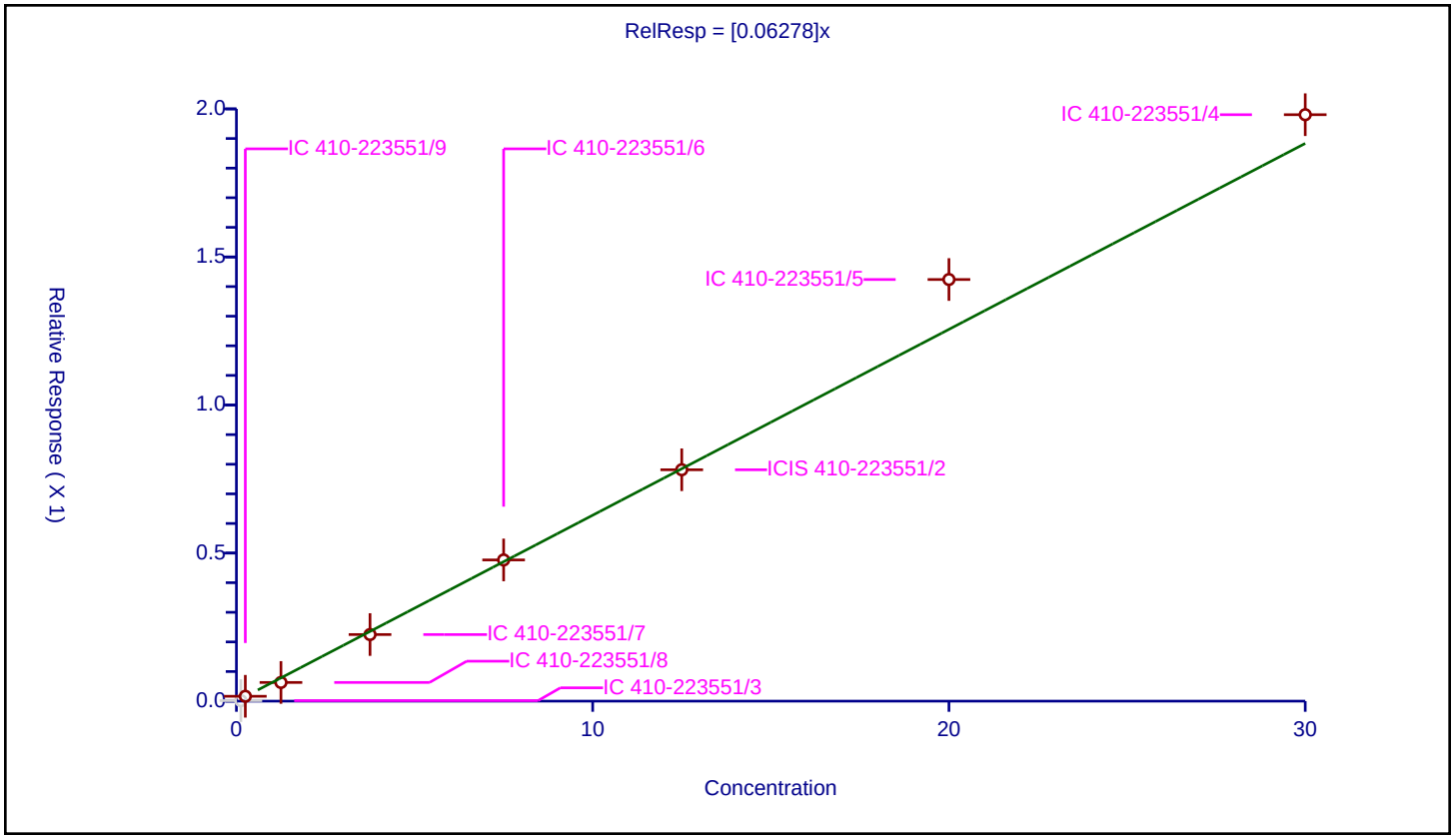
Curve Coefficients

Intercept:	0
Slope:	0.06278

Error Coefficients

Standard Error:	156000
Relative Standard Error:	10.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.001769	5.0	678213.0	0.014155	N
2	IC 410-223551/9	0.25	0.01642	5.0	689402.0	0.06568	Y
3	IC 410-223551/8	1.25	0.063103	5.0	683800.0	0.050483	Y
4	IC 410-223551/7	3.75	0.22493	5.0	635598.0	0.059981	Y
5	IC 410-223551/6	7.5	0.476852	5.0	903509.0	0.06358	Y
6	ICIS 410-223551/2	12.5	0.781391	5.0	791121.0	0.062511	Y
7	IC 410-223551/5	20.0	1.423874	5.0	694777.0	0.071194	Y
8	IC 410-223551/4	30.0	1.980383	5.0	729422.0	0.066013	Y



Calibration / cis-Diallate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

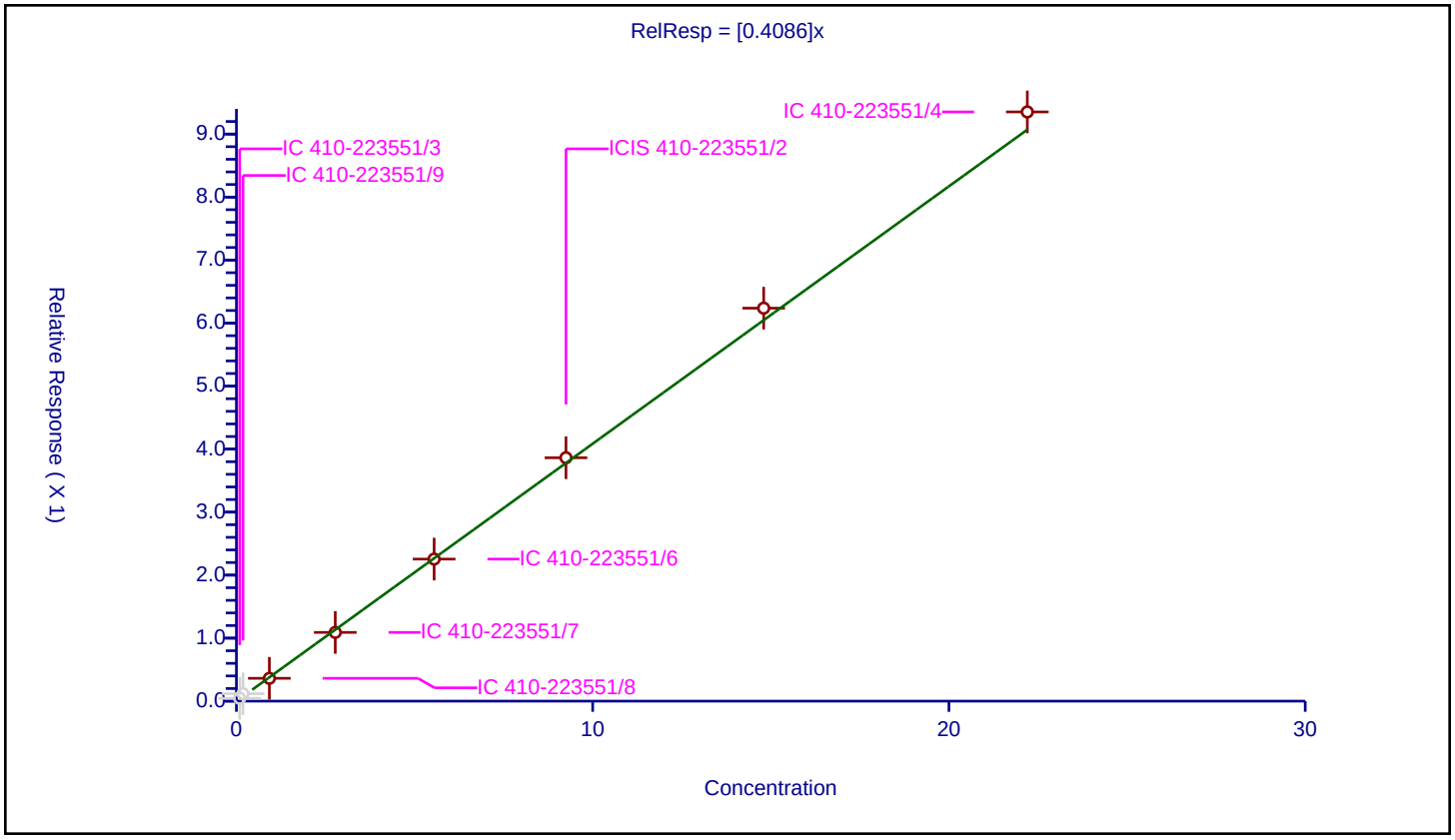
Curve Coefficients

Intercept:	0
Slope:	0.4086

Error Coefficients

Standard Error:	797000
Relative Standard Error:	3.4
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.0925	0.044794	5.0	678213.0	0.484261	N
2	IC 410-223551/9	0.185	0.118538	5.0	689402.0	0.640743	N
3	IC 410-223551/8	0.925	0.362277	5.0	683800.0	0.391651	Y
4	IC 410-223551/7	2.775	1.090925	5.0	635598.0	0.393126	Y
5	IC 410-223551/6	5.55	2.25467	5.0	903509.0	0.406247	Y
6	ICIS 410-223551/2	9.25	3.86329	5.0	791121.0	0.417653	Y
7	IC 410-223551/5	14.8	6.237339	5.0	694777.0	0.421442	Y
8	IC 410-223551/4	22.2	9.351754	5.0	729422.0	0.42125	Y



Calibration / Phenacetin

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

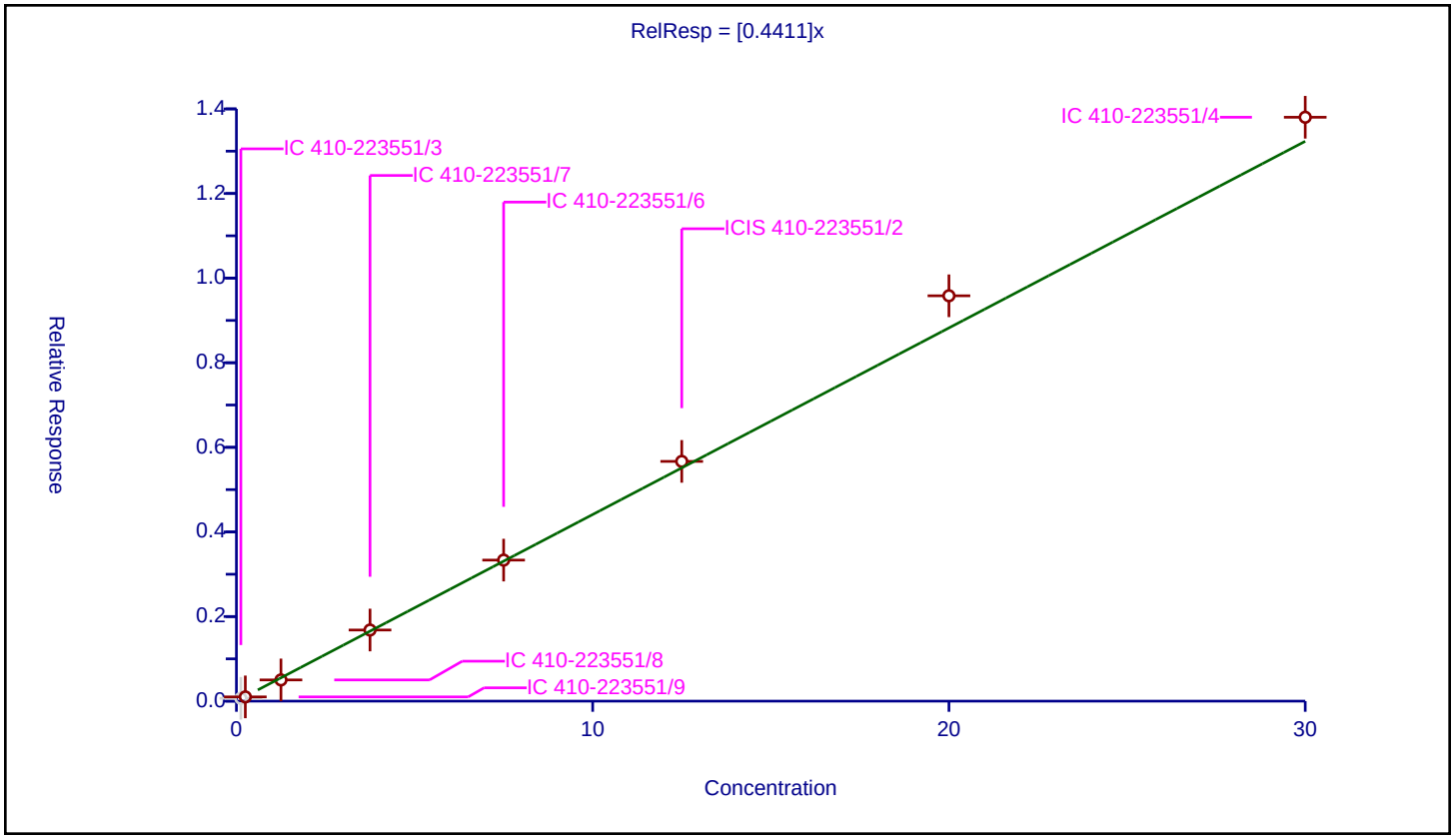
Curve Coefficients

Intercept:	0
Slope:	0.4411

Error Coefficients

Standard Error:	1080000
Relative Standard Error:	6.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.067339	5.0	678213.0	0.53871	N
2	IC 410-223551/9	0.25	0.100341	5.0	689402.0	0.401362	Y
3	IC 410-223551/8	1.25	0.501514	5.0	683800.0	0.401211	Y
4	IC 410-223551/7	3.75	1.681118	5.0	635598.0	0.448298	Y
5	IC 410-223551/6	7.5	3.33373	5.0	903509.0	0.444497	Y
6	ICIS 410-223551/2	12.5	5.667079	5.0	791121.0	0.453366	Y
7	IC 410-223551/5	20.0	9.582276	5.0	694777.0	0.479114	Y
8	IC 410-223551/4	30.0	13.802195	5.0	729422.0	0.460073	Y



Calibration / Phorate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

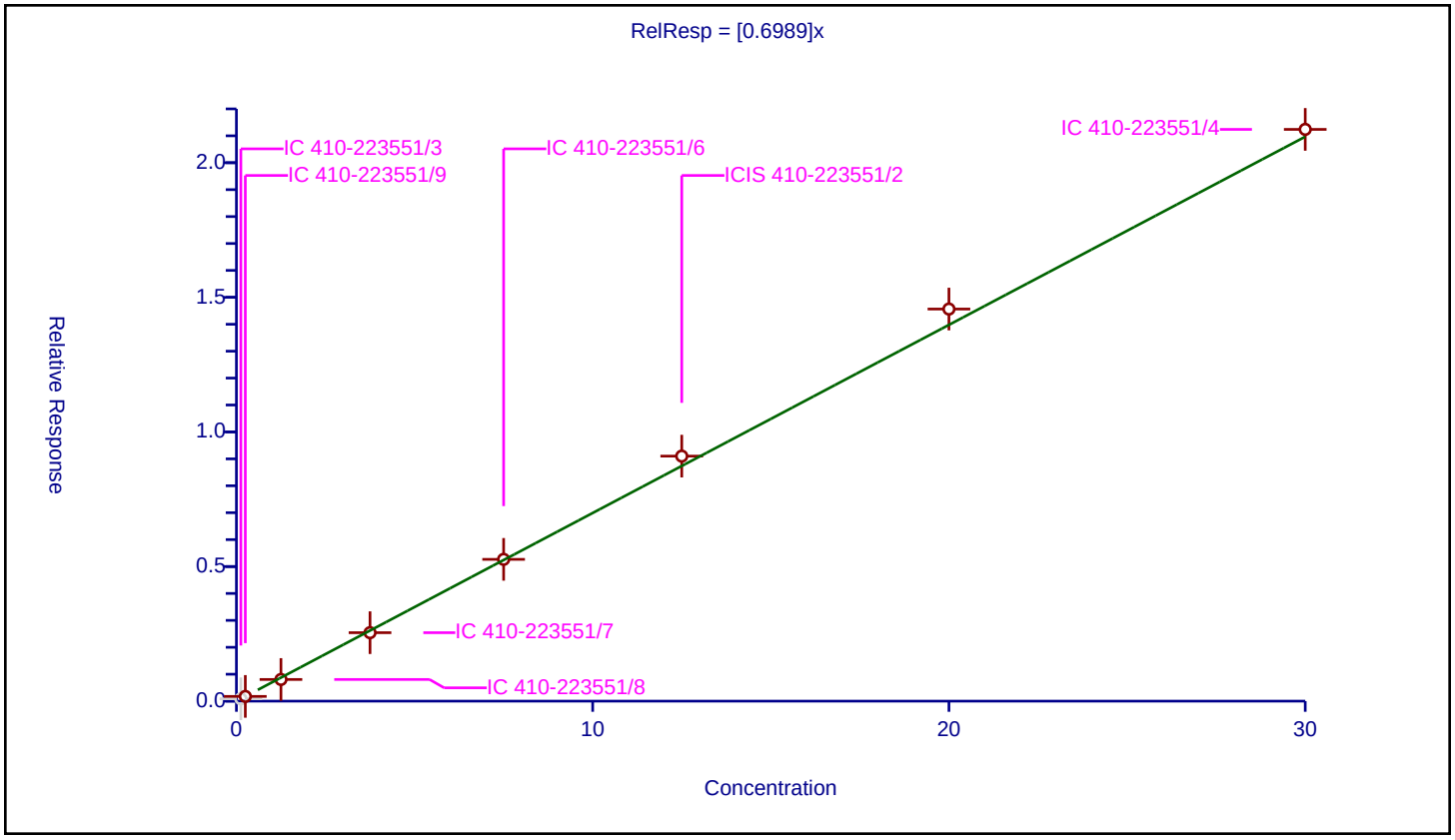
Curve Coefficients

Intercept:	0
Slope:	0.6989

Error Coefficients

Standard Error:	1670000
Relative Standard Error:	4.2
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.087672	5.0	678213.0	0.701373	N
2	IC 410-223551/9	0.25	0.175848	5.0	689402.0	0.703392	Y
3	IC 410-223551/8	1.25	0.804921	5.0	683800.0	0.643937	Y
4	IC 410-223551/7	3.75	2.543644	5.0	635598.0	0.678305	Y
5	IC 410-223551/6	7.5	5.266627	5.0	903509.0	0.702217	Y
6	ICIS 410-223551/2	12.5	9.101389	5.0	791121.0	0.728111	Y
7	IC 410-223551/5	20.0	14.564515	5.0	694777.0	0.728226	Y
8	IC 410-223551/4	30.0	21.238556	5.0	729422.0	0.707952	Y



Calibration / 4-Bromophenyl phenyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

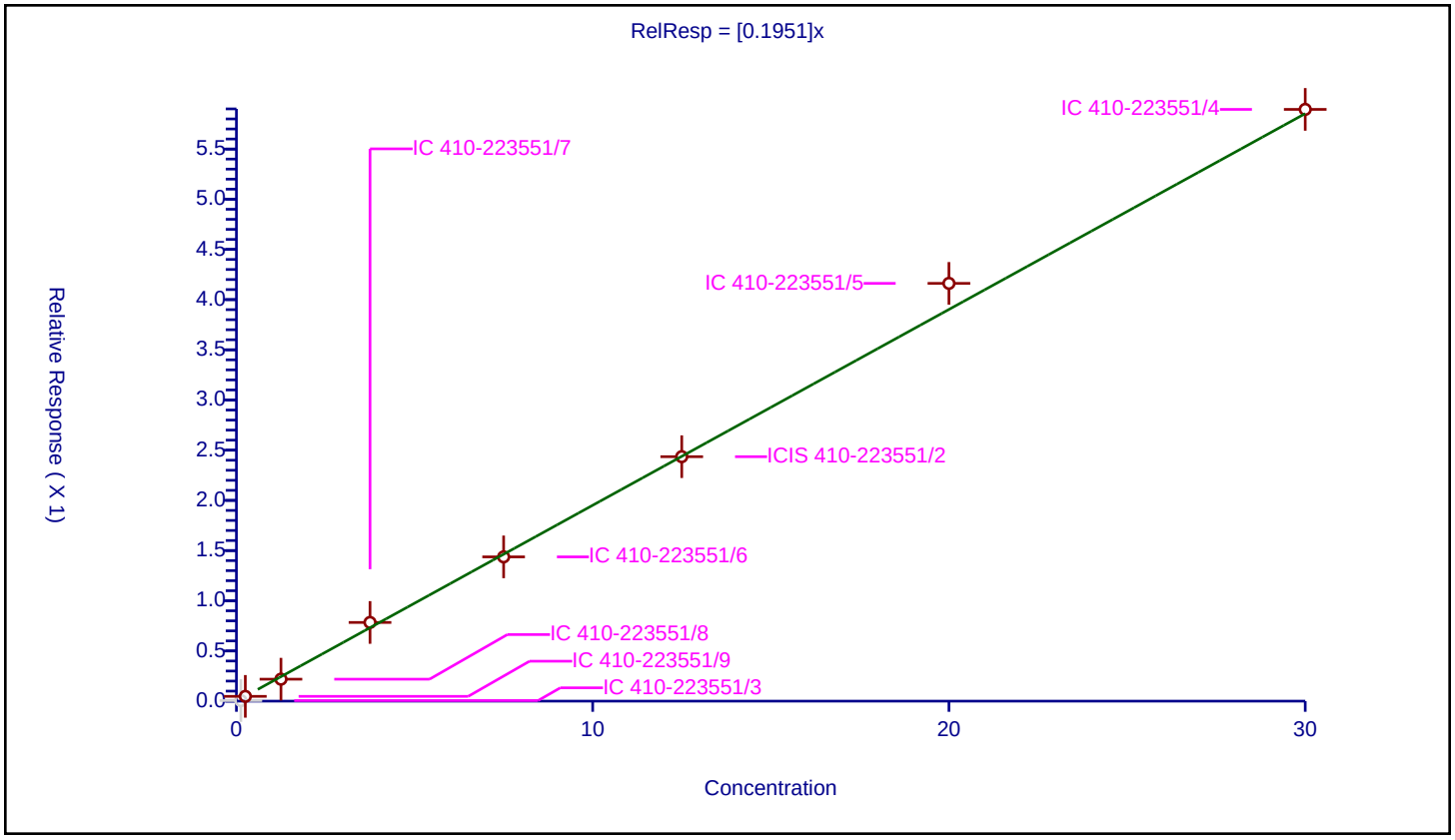
Curve Coefficients

Intercept:	0
Slope:	0.1951

Error Coefficients

Standard Error:	466000
Relative Standard Error:	5.9
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.005625	5.0	678213.0	0.045001	N
2	IC 410-223551/9	0.25	0.047643	5.0	689402.0	0.190571	Y
3	IC 410-223551/8	1.25	0.218829	5.0	683800.0	0.175063	Y
4	IC 410-223551/7	3.75	0.783813	5.0	635598.0	0.209017	Y
5	IC 410-223551/6	7.5	1.43723	5.0	903509.0	0.191631	Y
6	ICIS 410-223551/2	12.5	2.435418	5.0	791121.0	0.194833	Y
7	IC 410-223551/5	20.0	4.161774	5.0	694777.0	0.208089	Y
8	IC 410-223551/4	30.0	5.894935	5.0	729422.0	0.196498	Y



Calibration / trans-Diallate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

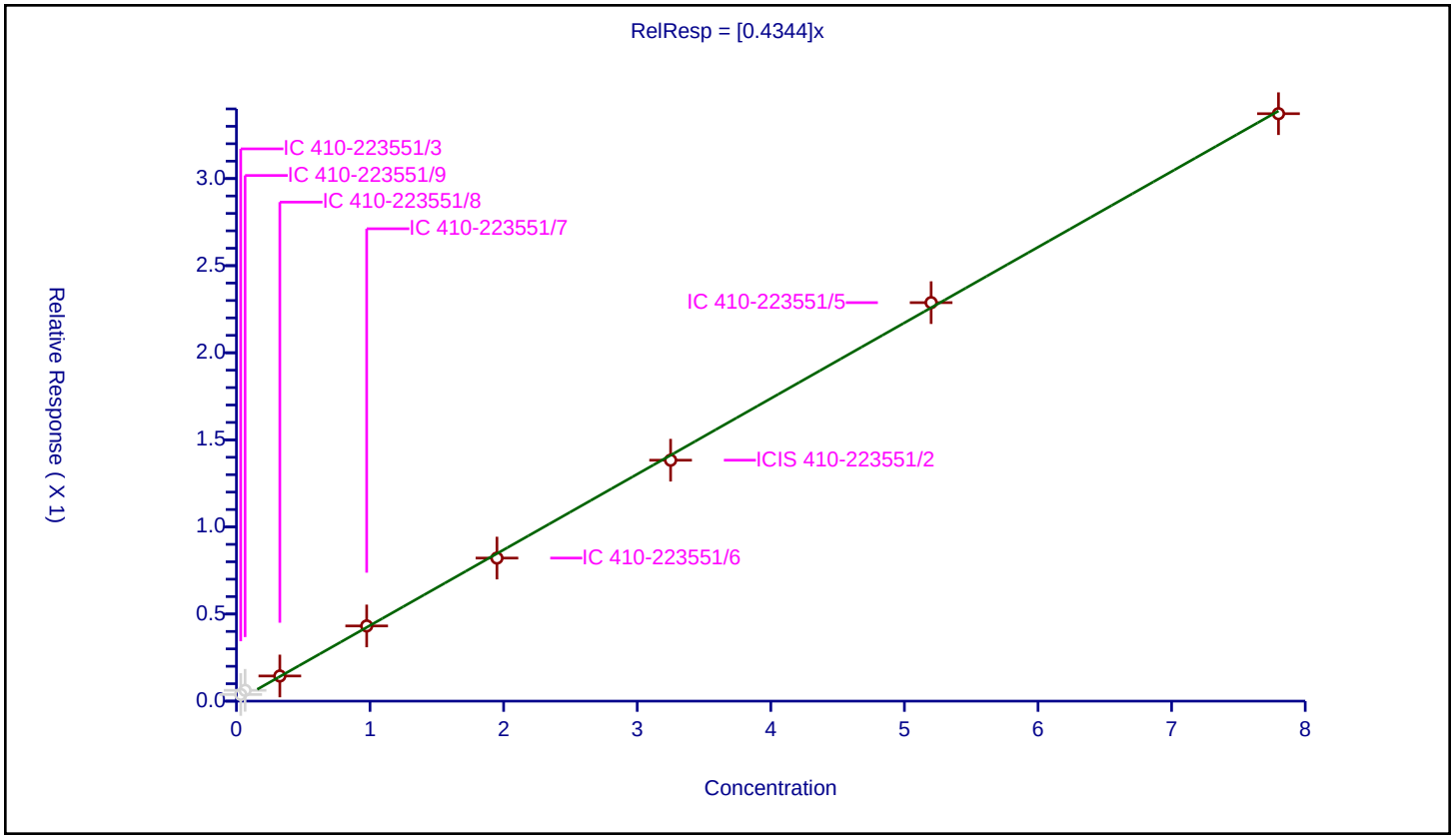
Curve Coefficients

Intercept:	0
Slope:	0.4344

Error Coefficients

Standard Error:	289000
Relative Standard Error:	2.2
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.0325	0.038211	5.0	678213.0	1.175714	N
2	IC 410-223551/9	0.065	0.062083	5.0	689402.0	0.95512	N
3	IC 410-223551/8	0.325	0.144392	5.0	683800.0	0.444282	Y
4	IC 410-223551/7	0.975	0.431774	5.0	635598.0	0.442846	Y
5	IC 410-223551/6	1.95	0.821276	5.0	903509.0	0.421167	Y
6	ICIS 410-223551/2	3.25	1.383297	5.0	791121.0	0.42563	Y
7	IC 410-223551/5	5.2	2.287727	5.0	694777.0	0.439947	Y
8	IC 410-223551/4	7.8	3.372451	5.0	729422.0	0.432366	Y



Calibration / Hexachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

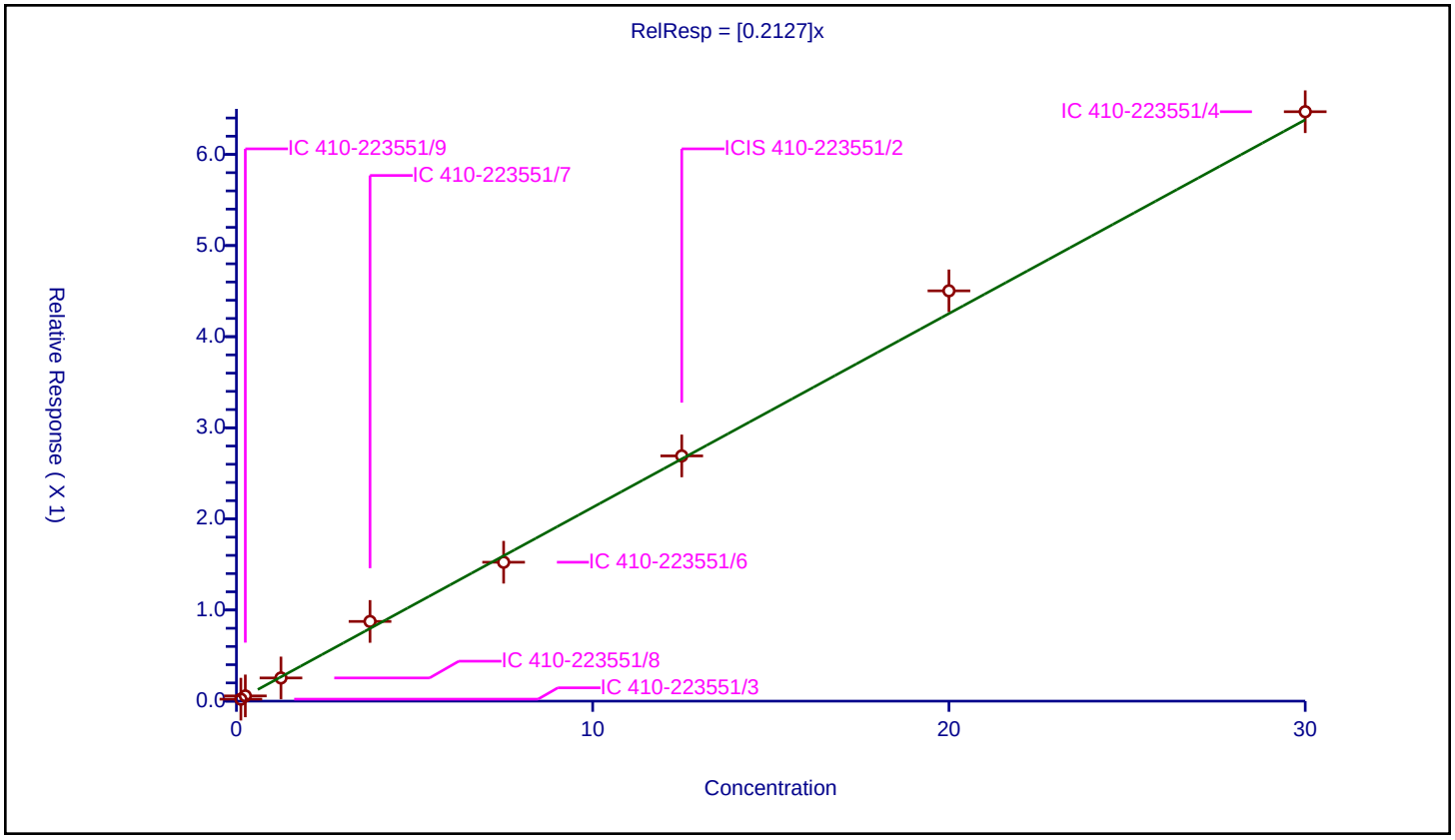
Curve Coefficients

Intercept:	0
Slope:	0.2127

Error Coefficients

Standard Error:	471000
Relative Standard Error:	8.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.021911	5.0	678213.0	0.175284	Y
2	IC 410-223551/9	0.25	0.057463	5.0	689402.0	0.229851	Y
3	IC 410-223551/8	1.25	0.254512	5.0	683800.0	0.203609	Y
4	IC 410-223551/7	3.75	0.874853	5.0	635598.0	0.233294	Y
5	IC 410-223551/6	7.5	1.524672	5.0	903509.0	0.20329	Y
6	ICIS 410-223551/2	12.5	2.69144	5.0	791121.0	0.215315	Y
7	IC 410-223551/5	20.0	4.503222	5.0	694777.0	0.225161	Y
8	IC 410-223551/4	30.0	6.469012	5.0	729422.0	0.215634	Y



Calibration / Dimethoate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

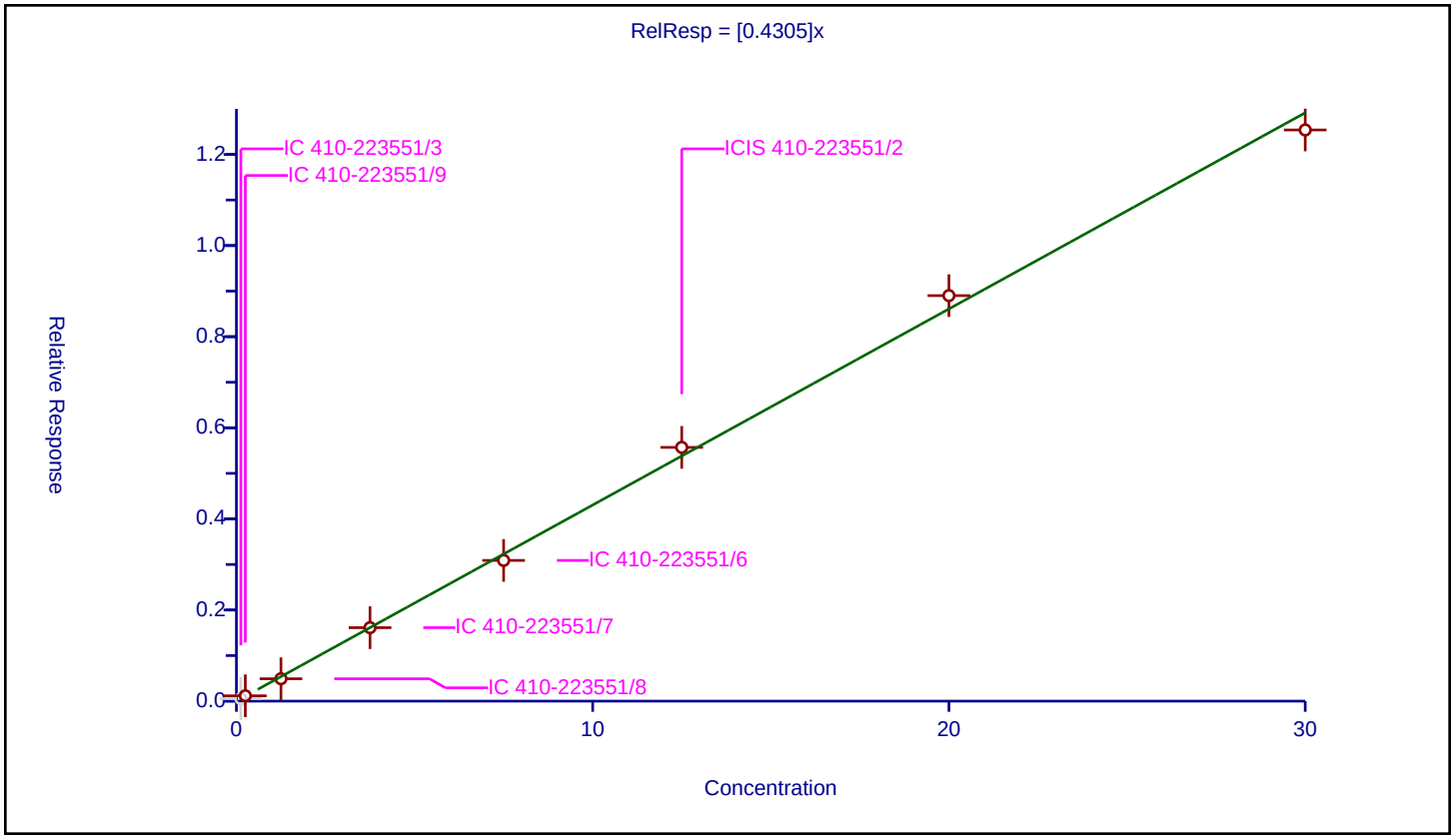
Curve Coefficients

Intercept:	0
Slope:	0.4305

Error Coefficients

Standard Error:	1000000
Relative Standard Error:	5.9
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.055499	5.0	678213.0	0.44399	N
2	IC 410-223551/9	0.25	0.117435	5.0	689402.0	0.46974	Y
3	IC 410-223551/8	1.25	0.491467	5.0	683800.0	0.393173	Y
4	IC 410-223551/7	3.75	1.612481	5.0	635598.0	0.429995	Y
5	IC 410-223551/6	7.5	3.088968	5.0	903509.0	0.411862	Y
6	ICIS 410-223551/2	12.5	5.570223	5.0	791121.0	0.445618	Y
7	IC 410-223551/5	20.0	8.901424	5.0	694777.0	0.445071	Y
8	IC 410-223551/4	30.0	12.537674	5.0	729422.0	0.417922	Y



Calibration / Atrazine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

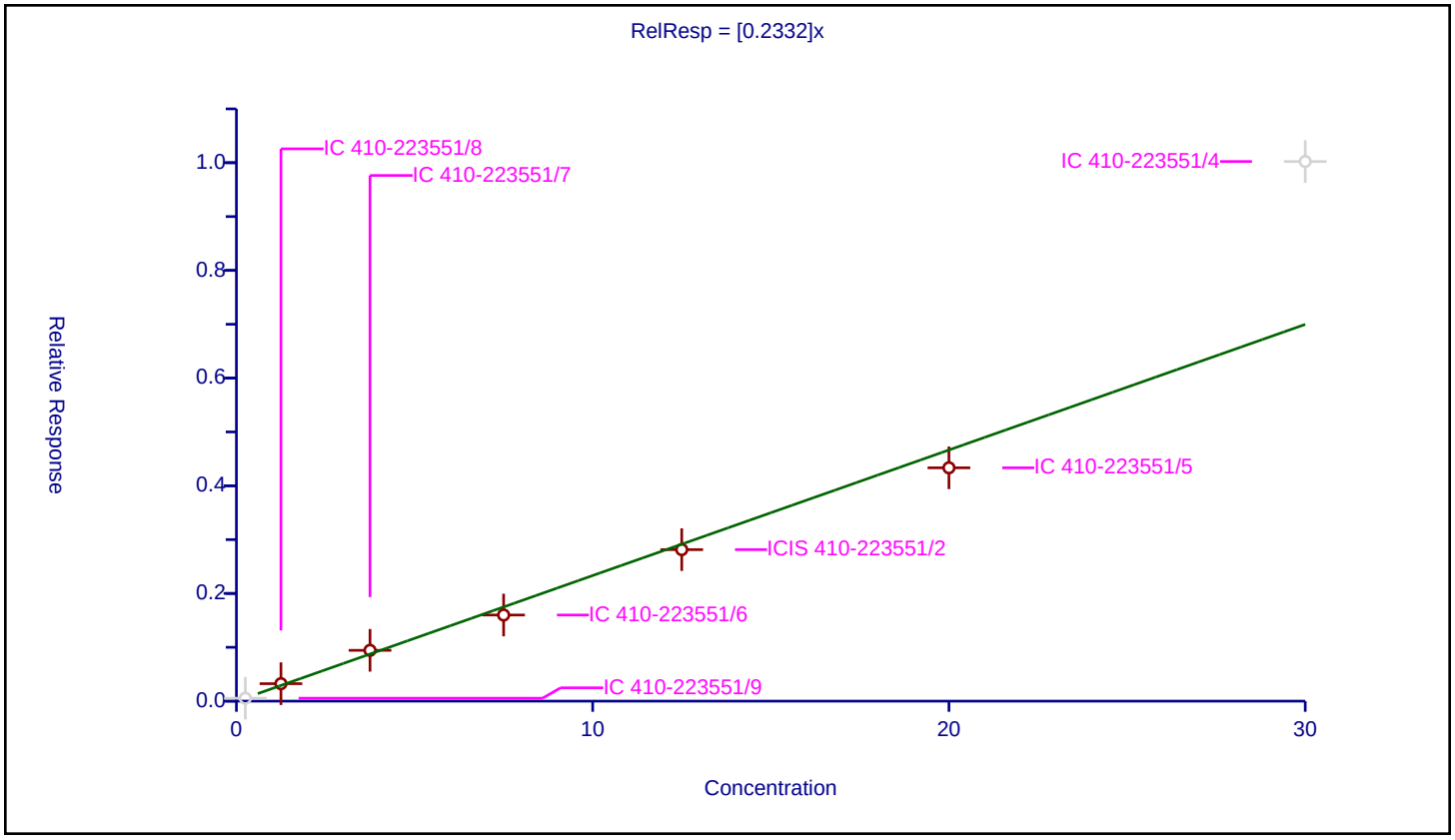
Curve Coefficients

Intercept:	0
Slope:	0.2332

Error Coefficients

Standard Error:	406000
Relative Standard Error:	9.0
Correlation Coefficient:	0.978
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/9	0.25	0.05433	5.0	689402.0	0.217319	N
2	IC 410-223551/8	1.25	0.324364	5.0	683800.0	0.259491	Y
3	IC 410-223551/7	3.75	0.943371	5.0	635598.0	0.251566	Y
4	IC 410-223551/6	7.5	1.599779	5.0	903509.0	0.213304	Y
5	ICIS 410-223551/2	12.5	2.81395	5.0	791121.0	0.225116	Y
6	IC 410-223551/5	20.0	4.33388	5.0	694777.0	0.216694	Y
7	IC 410-223551/4	30.0	10.022586	5.0	729422.0	0.334086	N



Calibration / Pentachloronitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

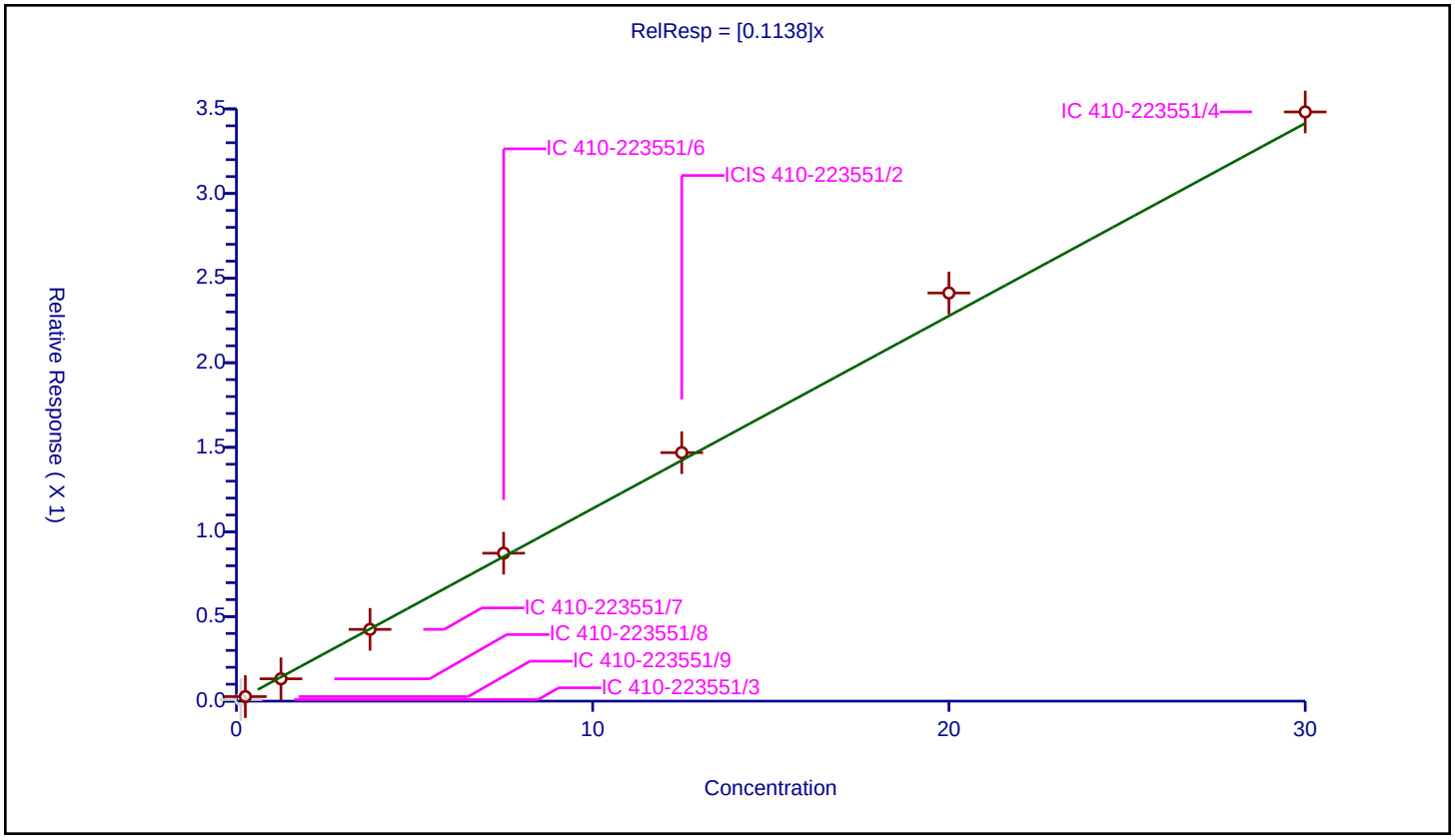
Curve Coefficients

Intercept:	0
Slope:	0.1138

Error Coefficients

Standard Error:	275000
Relative Standard Error:	4.8
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.009061	5.0	678213.0	0.072485	N
2	IC 410-223551/9	0.25	0.026849	5.0	689402.0	0.107397	Y
3	IC 410-223551/8	1.25	0.13199	5.0	683800.0	0.105592	Y
4	IC 410-223551/7	3.75	0.424136	5.0	635598.0	0.113103	Y
5	IC 410-223551/6	7.5	0.874197	5.0	903509.0	0.11656	Y
6	ICIS 410-223551/2	12.5	1.468612	5.0	791121.0	0.117489	Y
7	IC 410-223551/5	20.0	2.412098	5.0	694777.0	0.120605	Y
8	IC 410-223551/4	30.0	3.48201	5.0	729422.0	0.116067	Y



Calibration / Pentachlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

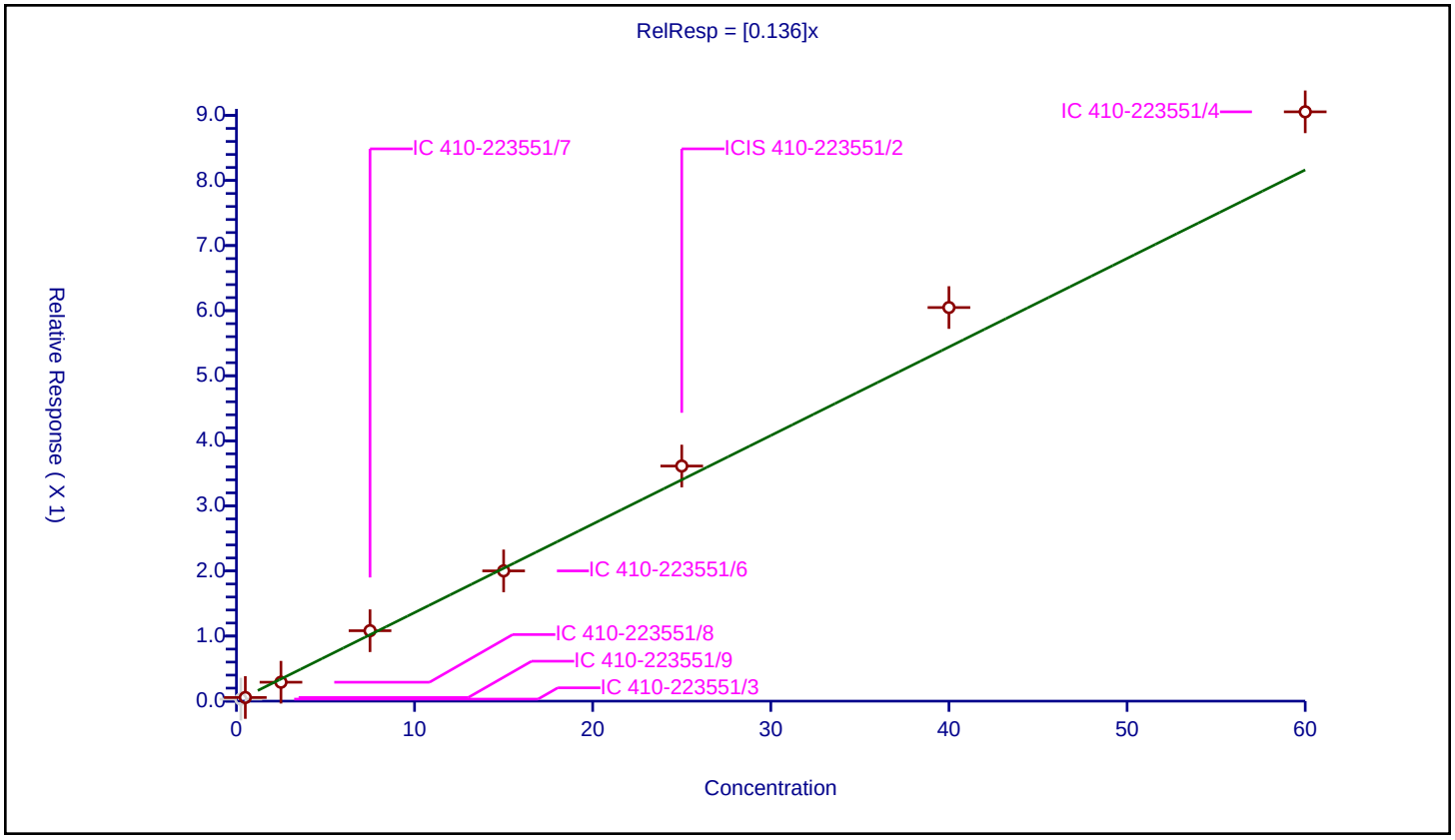
Curve Coefficients

Intercept:	0
Slope:	0.136

Error Coefficients

Standard Error:	699000
Relative Standard Error:	11.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.25	0.031126	5.0	678213.0	0.124504	N
2	IC 410-223551/9	0.5	0.055889	5.0	689402.0	0.111778	Y
3	IC 410-223551/8	2.5	0.290589	5.0	683800.0	0.116236	Y
4	IC 410-223551/7	7.5	1.082233	5.0	635598.0	0.144298	Y
5	IC 410-223551/6	15.0	2.001325	5.0	903509.0	0.133422	Y
6	ICIS 410-223551/2	25.0	3.612355	5.0	791121.0	0.144494	Y
7	IC 410-223551/5	40.0	6.047768	5.0	694777.0	0.151194	Y
8	IC 410-223551/4	60.0	9.054889	5.0	729422.0	0.150915	Y



Calibration / 4-Aminobiphenyl

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

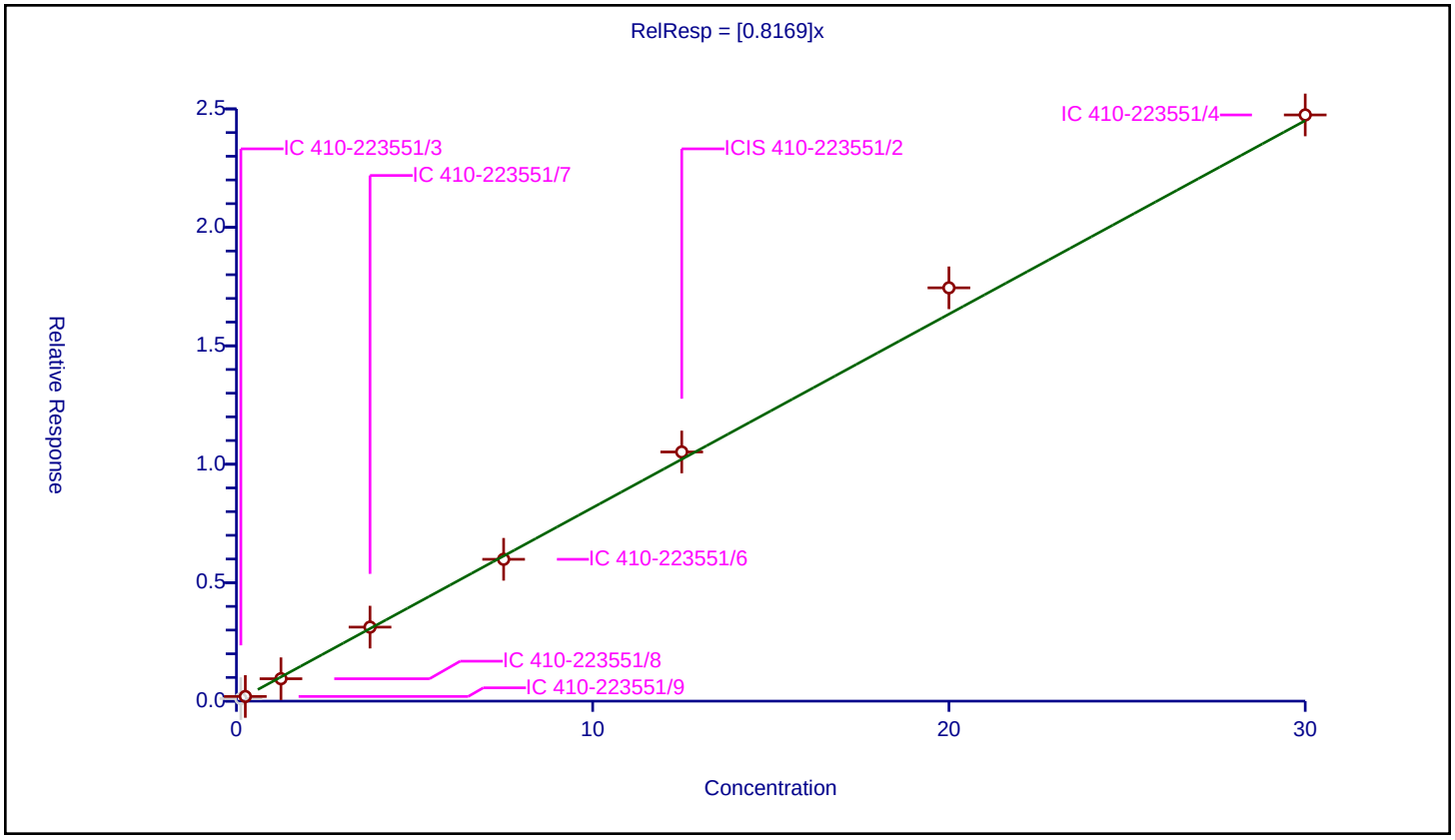
Curve Coefficients

Intercept:	0
Slope:	0.8169

Error Coefficients

Standard Error:	1960000
Relative Standard Error:	4.6
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.107267	5.0	678213.0	0.858137	N
2	IC 410-223551/9	0.25	0.197809	5.0	689402.0	0.791236	Y
3	IC 410-223551/8	1.25	0.945788	5.0	683800.0	0.756631	Y
4	IC 410-223551/7	3.75	3.124475	5.0	635598.0	0.833193	Y
5	IC 410-223551/6	7.5	5.987301	5.0	903509.0	0.798307	Y
6	ICIS 410-223551/2	12.5	10.518644	5.0	791121.0	0.841492	Y
7	IC 410-223551/5	20.0	17.446907	5.0	694777.0	0.872345	Y
8	IC 410-223551/4	30.0	24.744668	5.0	729422.0	0.824822	Y



Calibration / Pronamide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

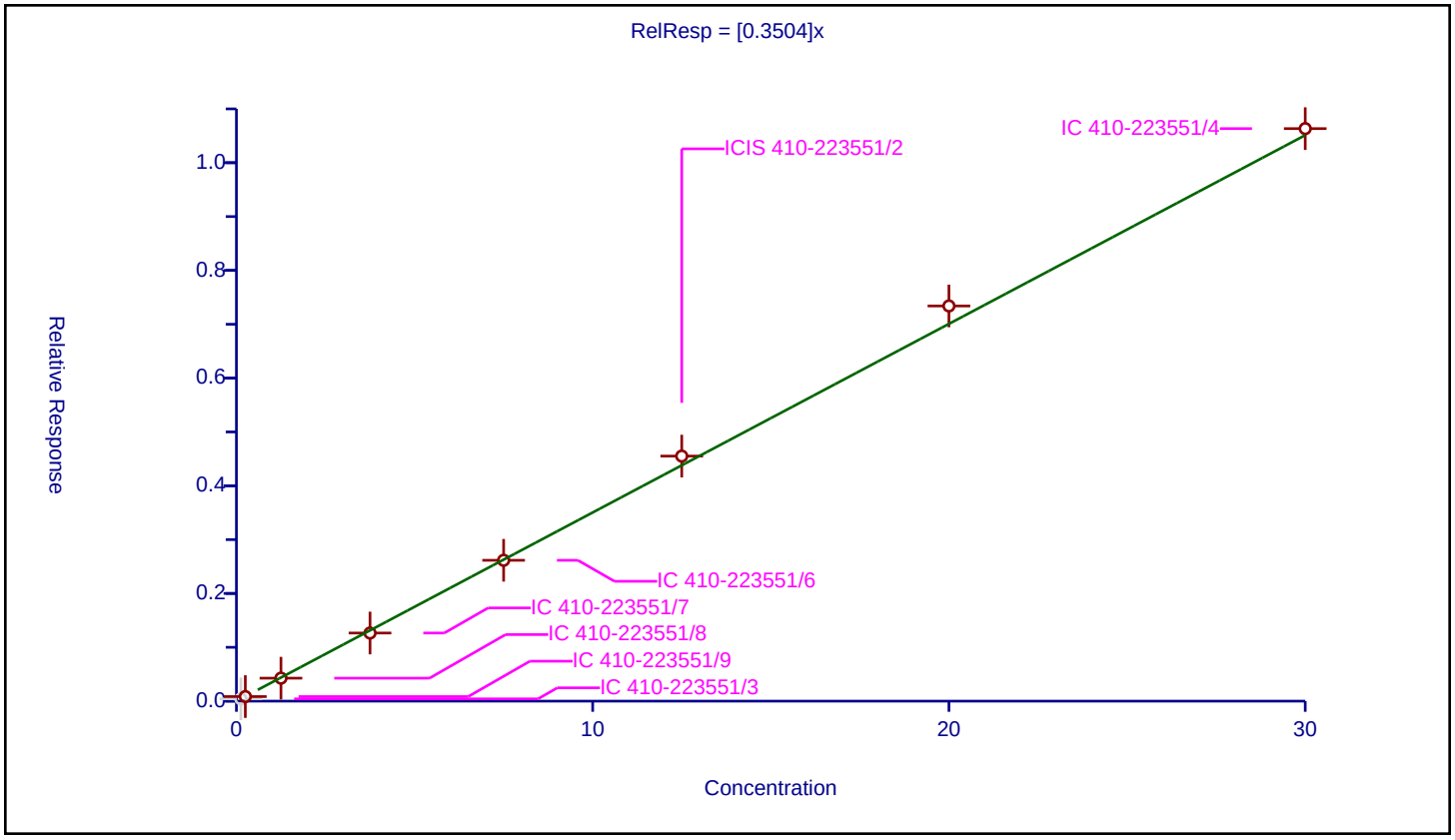
Curve Coefficients

Intercept:	0
Slope:	0.3504

Error Coefficients

Standard Error:	838000
Relative Standard Error:	3.4
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.042383	5.0	678213.0	0.339068	N
2	IC 410-223551/9	0.25	0.084863	5.0	689402.0	0.339454	Y
3	IC 410-223551/8	1.25	0.426813	5.0	683800.0	0.341451	Y
4	IC 410-223551/7	3.75	1.265013	5.0	635598.0	0.337337	Y
5	IC 410-223551/6	7.5	2.61594	5.0	903509.0	0.348792	Y
6	ICIS 410-223551/2	12.5	4.551251	5.0	791121.0	0.3641	Y
7	IC 410-223551/5	20.0	7.339722	5.0	694777.0	0.366986	Y
8	IC 410-223551/4	30.0	10.633673	5.0	729422.0	0.354456	Y



Calibration / Dinoseb

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

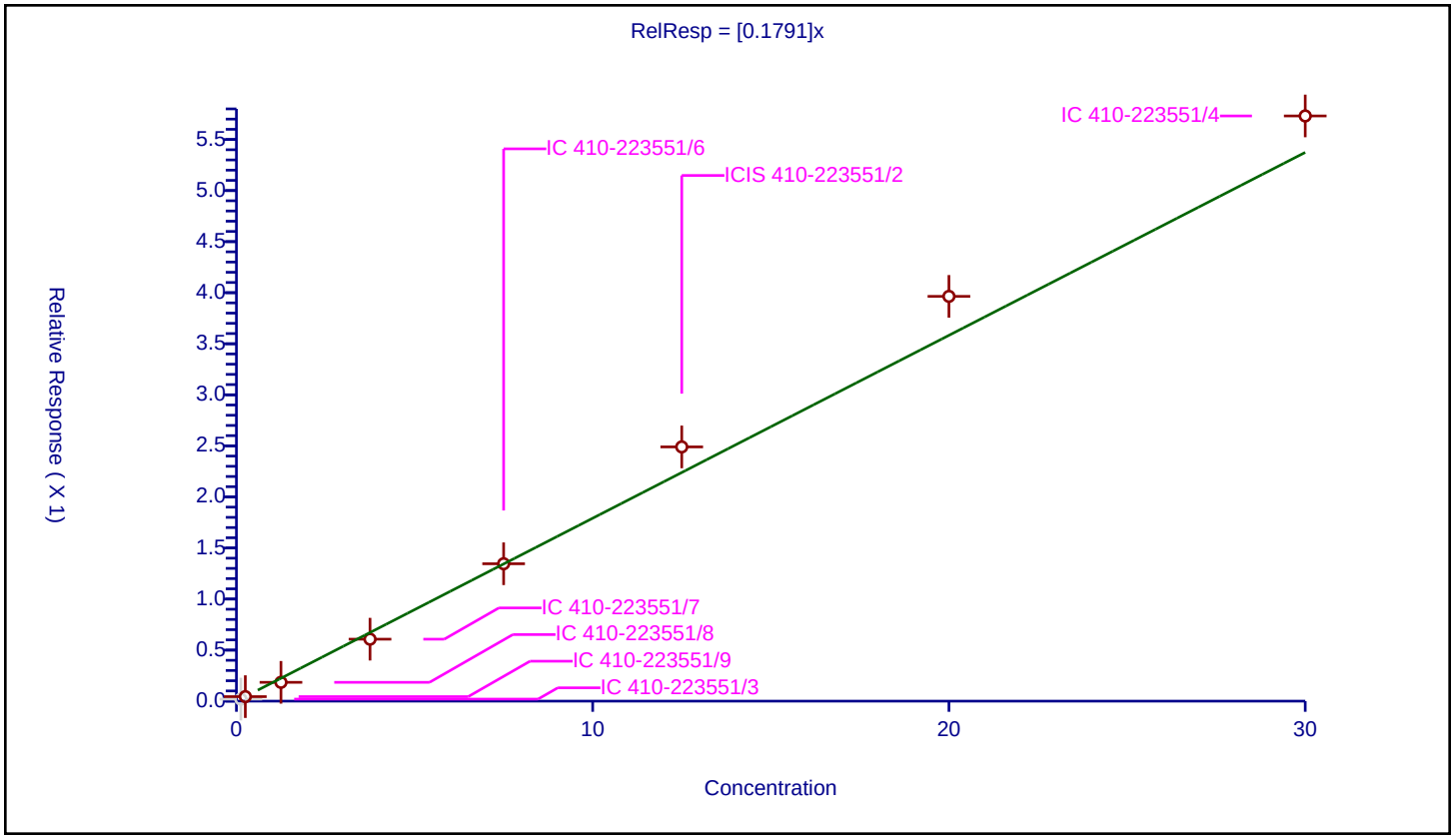
Curve Coefficients

Intercept:	0
Slope:	0.1791

Error Coefficients

Standard Error:	452000
Relative Standard Error:	10.7
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.019883	5.0	678213.0	0.159065	N
2	IC 410-223551/9	0.25	0.044219	5.0	689402.0	0.176878	Y
3	IC 410-223551/8	1.25	0.184221	5.0	683800.0	0.147376	Y
4	IC 410-223551/7	3.75	0.606736	5.0	635598.0	0.161796	Y
5	IC 410-223551/6	7.5	1.345554	5.0	903509.0	0.179407	Y
6	ICIS 410-223551/2	12.5	2.489859	5.0	791121.0	0.199189	Y
7	IC 410-223551/5	20.0	3.96402	5.0	694777.0	0.198201	Y
8	IC 410-223551/4	30.0	5.730791	5.0	729422.0	0.191026	Y



Calibration / Disulfoton

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

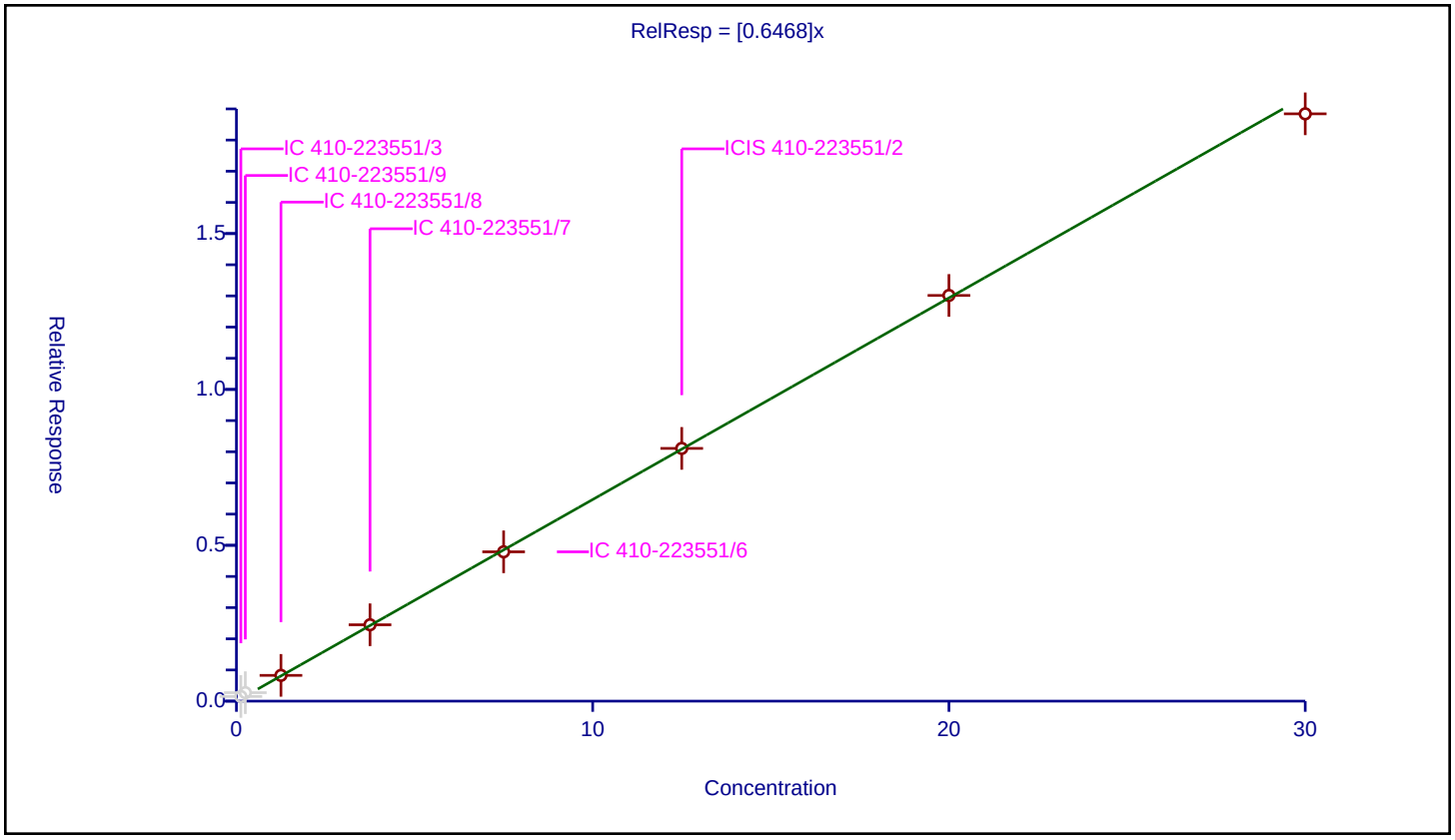
Curve Coefficients

Intercept:	0
Slope:	0.6468

Error Coefficients

Standard Error:	1630000
Relative Standard Error:	1.8
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.150034	5.0	678213.0	1.200272	N
2	IC 410-223551/9	0.25	0.272352	5.0	689402.0	1.089408	N
3	IC 410-223551/8	1.25	0.826272	5.0	683800.0	0.661018	Y
4	IC 410-223551/7	3.75	2.450181	5.0	635598.0	0.653382	Y
5	IC 410-223551/6	7.5	4.790644	5.0	903509.0	0.638753	Y
6	ICIS 410-223551/2	12.5	8.10845	5.0	791121.0	0.648676	Y
7	IC 410-223551/5	20.0	13.015752	5.0	694777.0	0.650788	Y
8	IC 410-223551/4	30.0	18.842117	5.0	729422.0	0.628071	Y



Calibration / Phenanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

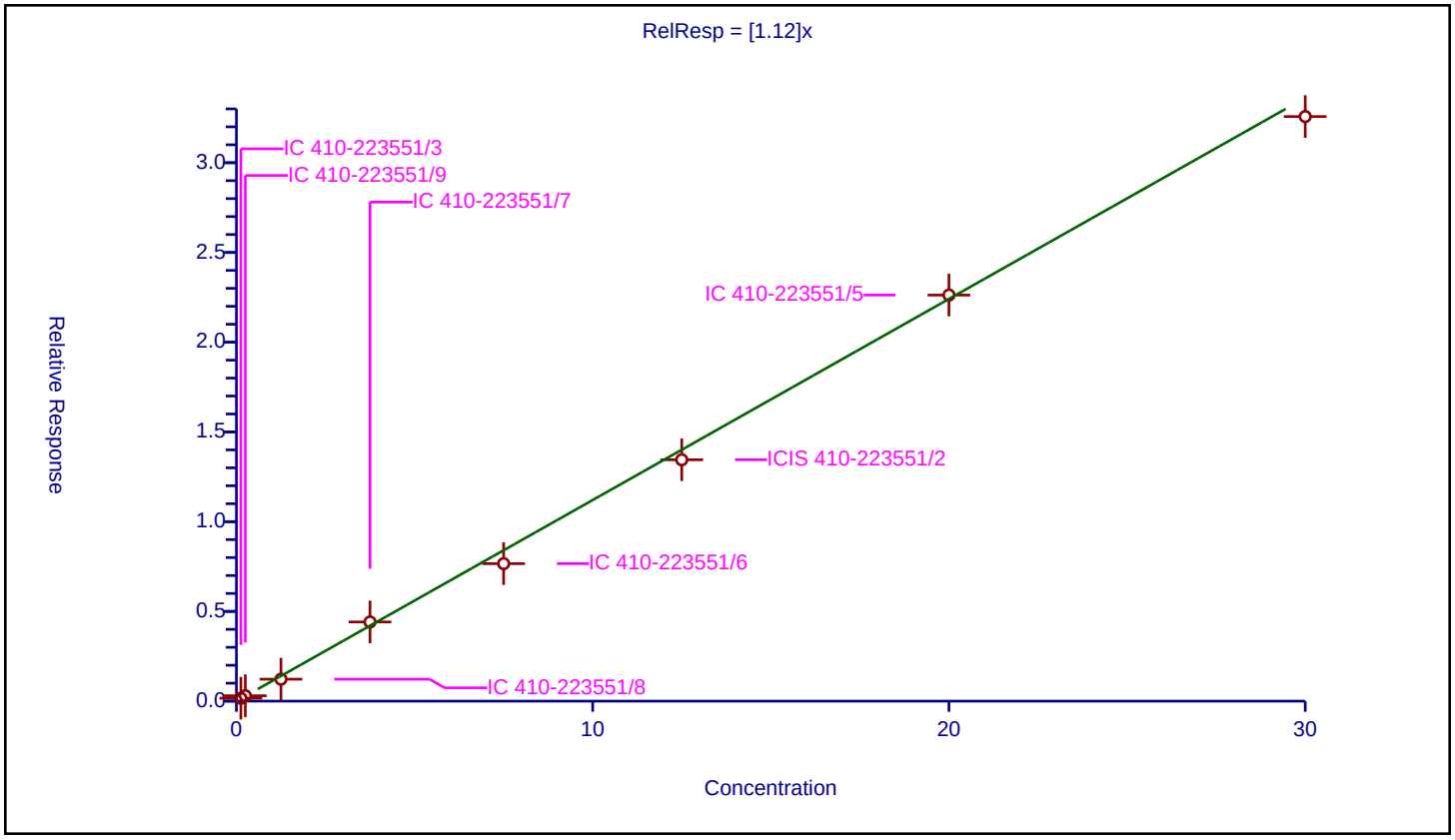
Curve Coefficients

Intercept:	0
Slope:	1.12

Error Coefficients

Standard Error:	2370000
Relative Standard Error:	9.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.161763	5.0	678213.0	1.294107	Y
2	IC 410-223551/9	0.25	0.300093	5.0	689402.0	1.200374	Y
3	IC 410-223551/8	1.25	1.223018	5.0	683800.0	0.978415	Y
4	IC 410-223551/7	3.75	4.411688	5.0	635598.0	1.17645	Y
5	IC 410-223551/6	7.5	7.660798	5.0	903509.0	1.02144	Y
6	ICIS 410-223551/2	12.5	13.449289	5.0	791121.0	1.075943	Y
7	IC 410-223551/5	20.0	22.626685	5.0	694777.0	1.131334	Y
8	IC 410-223551/4	30.0	32.572729	5.0	729422.0	1.085758	Y



Calibration / Anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

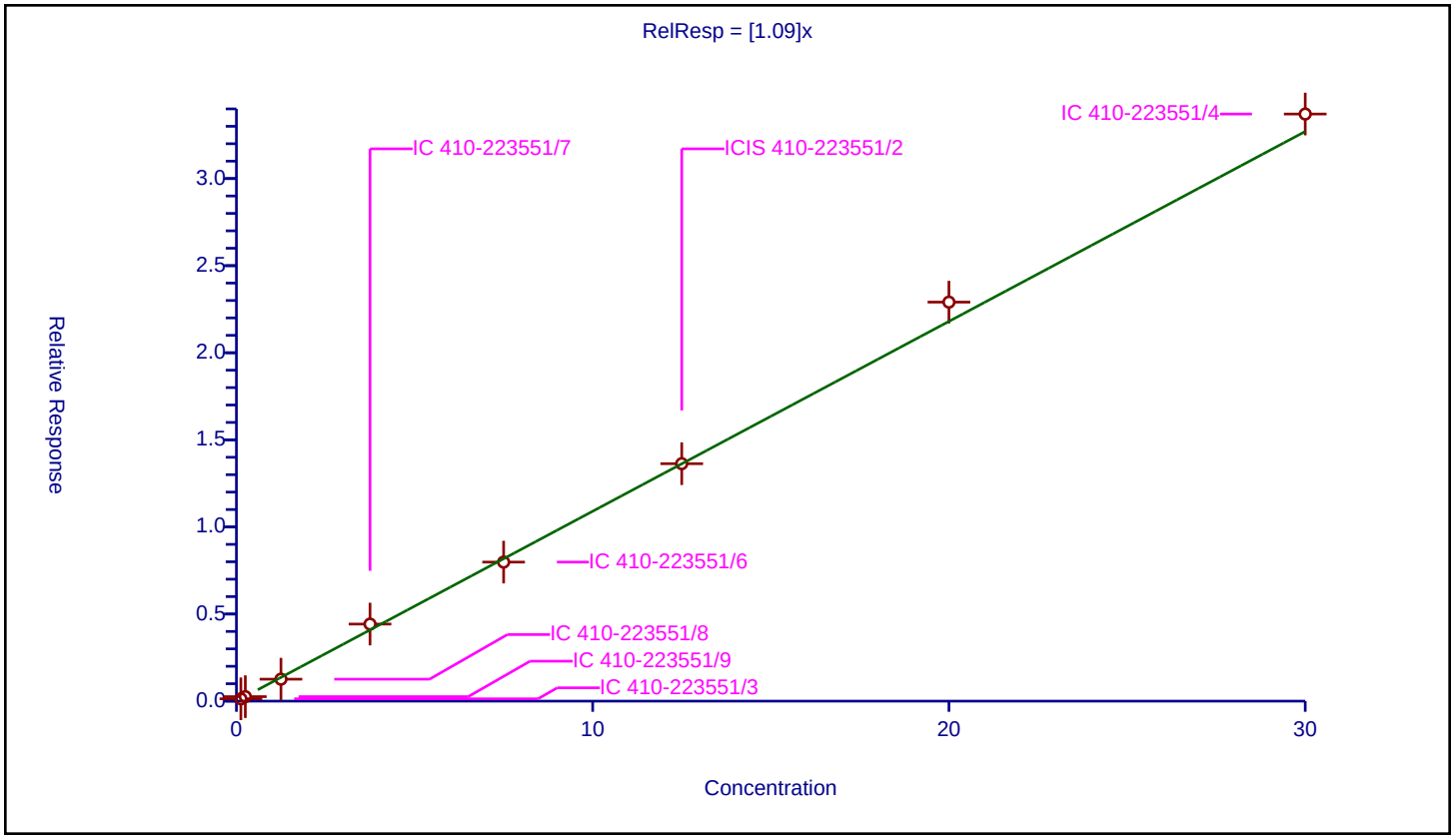
Curve Coefficients

Intercept:	0
Slope:	1.09

Error Coefficients

Standard Error:	2430000
Relative Standard Error:	5.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.134434	5.0	678213.0	1.075473	Y
2	IC 410-223551/9	0.25	0.258289	5.0	689402.0	1.033156	Y
3	IC 410-223551/8	1.25	1.260654	5.0	683800.0	1.008523	Y
4	IC 410-223551/7	3.75	4.424094	5.0	635598.0	1.179758	Y
5	IC 410-223551/6	7.5	7.982311	5.0	903509.0	1.064308	Y
6	ICIS 410-223551/2	12.5	13.632042	5.0	791121.0	1.090563	Y
7	IC 410-223551/5	20.0	22.906638	5.0	694777.0	1.145332	Y
8	IC 410-223551/4	30.0	33.705311	5.0	729422.0	1.12351	Y



Calibration / Carbazole

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

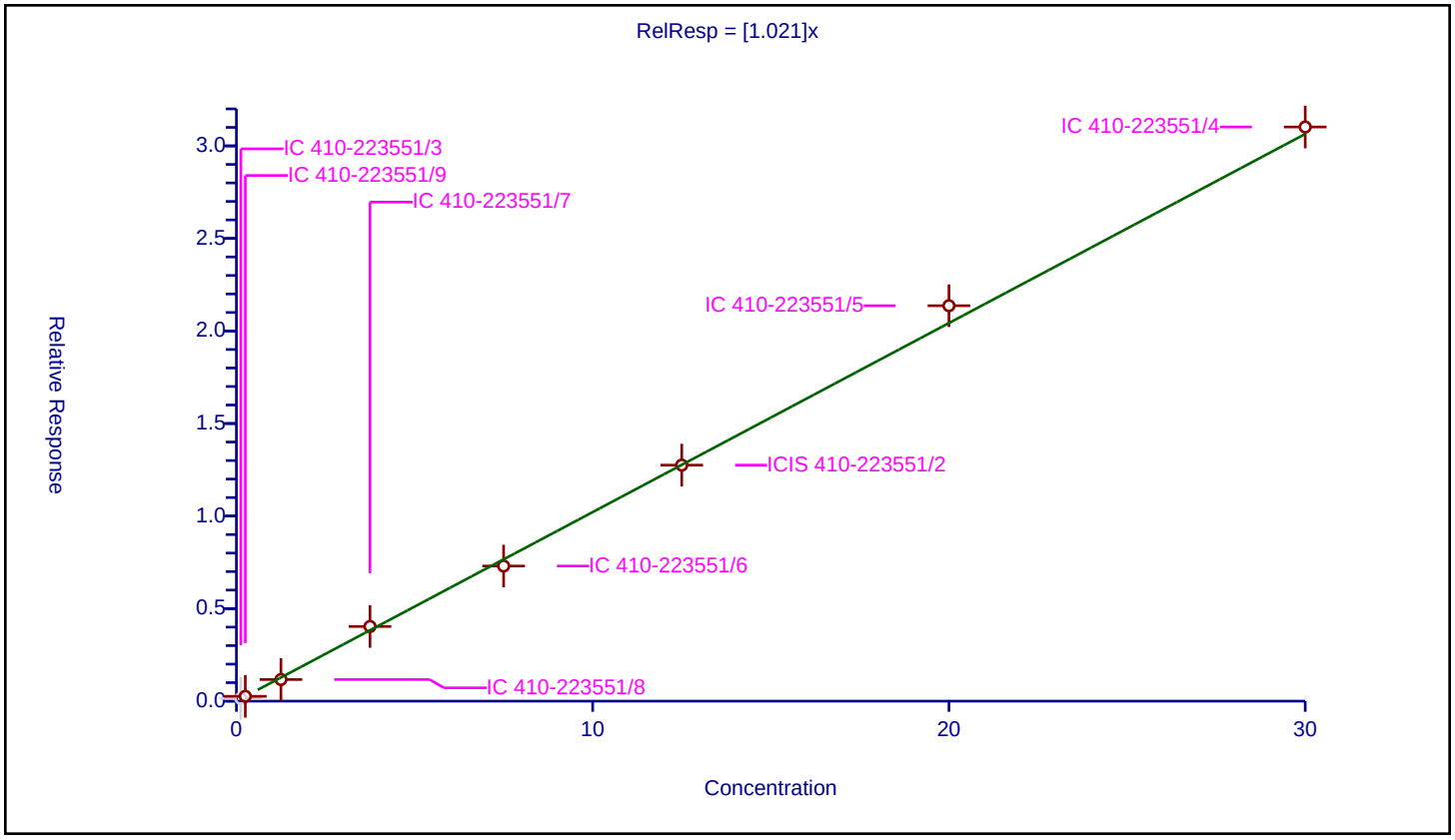
Curve Coefficients

Intercept:	0
Slope:	1.021

Error Coefficients

Standard Error:	2430000
Relative Standard Error:	5.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.14693	5.0	678213.0	1.175442	N
2	IC 410-223551/9	0.25	0.260987	5.0	689402.0	1.043948	Y
3	IC 410-223551/8	1.25	1.167527	5.0	683800.0	0.934022	Y
4	IC 410-223551/7	3.75	4.034838	5.0	635598.0	1.075957	Y
5	IC 410-223551/6	7.5	7.301189	5.0	903509.0	0.973492	Y
6	ICIS 410-223551/2	12.5	12.752379	5.0	791121.0	1.02019	Y
7	IC 410-223551/5	20.0	21.364934	5.0	694777.0	1.068247	Y
8	IC 410-223551/4	30.0	31.02111	5.0	729422.0	1.034037	Y



Calibration / Methyl parathion

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

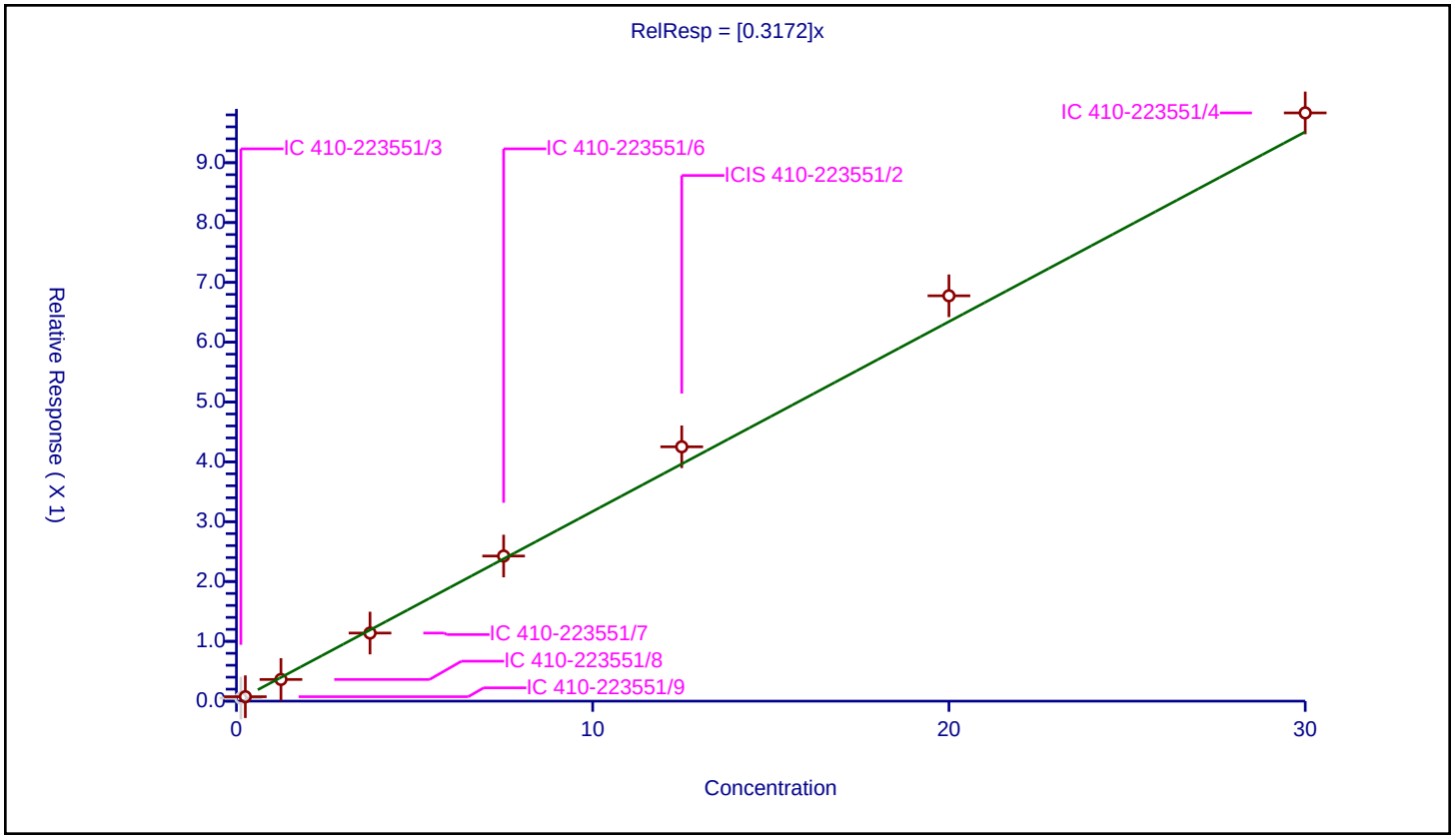
Curve Coefficients

Intercept:	0
Slope:	0.3172

Error Coefficients

Standard Error:	776000
Relative Standard Error:	6.4
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.051363	5.0	678213.0	0.410903	N
2	IC 410-223551/9	0.25	0.074238	5.0	689402.0	0.296953	Y
3	IC 410-223551/8	1.25	0.362321	5.0	683800.0	0.289857	Y
4	IC 410-223551/7	3.75	1.137968	5.0	635598.0	0.303458	Y
5	IC 410-223551/6	7.5	2.42587	5.0	903509.0	0.323449	Y
6	ICIS 410-223551/2	12.5	4.251499	5.0	791121.0	0.34012	Y
7	IC 410-223551/5	20.0	6.775865	5.0	694777.0	0.338793	Y
8	IC 410-223551/4	30.0	9.832923	5.0	729422.0	0.327764	Y



Calibration / Di-n-butyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

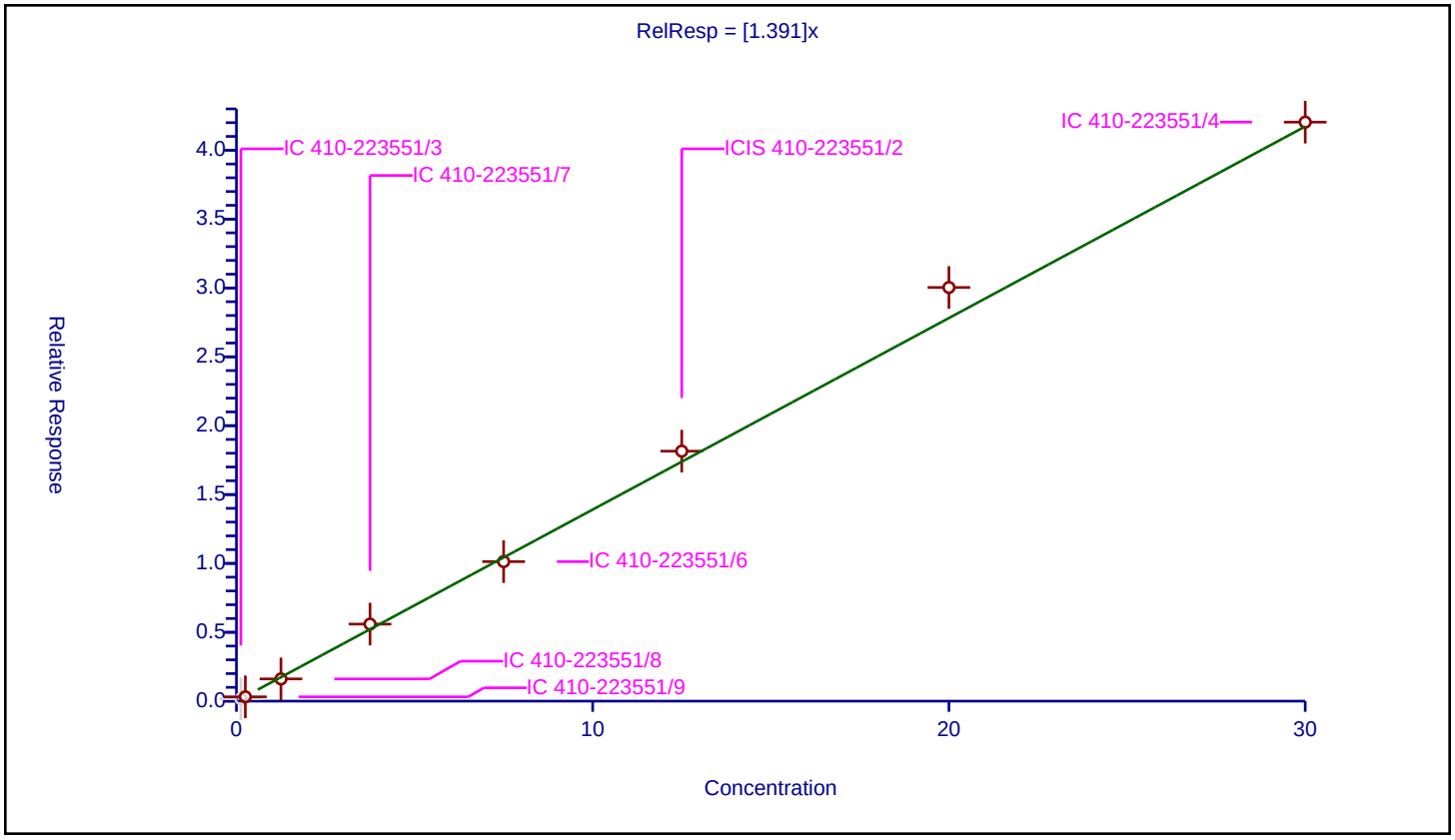
Curve Coefficients

Intercept:	0
Slope:	1.391

Error Coefficients

Standard Error:	3350000
Relative Standard Error:	7.1
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.173972	5.0	678213.0	1.391775	N
2	IC 410-223551/9	0.25	0.311879	5.0	689402.0	1.247516	Y
3	IC 410-223551/8	1.25	1.612979	5.0	683800.0	1.290383	Y
4	IC 410-223551/7	3.75	5.594283	5.0	635598.0	1.491809	Y
5	IC 410-223551/6	7.5	10.129905	5.0	903509.0	1.350654	Y
6	ICIS 410-223551/2	12.5	18.149158	5.0	791121.0	1.451933	Y
7	IC 410-223551/5	20.0	30.034644	5.0	694777.0	1.501732	Y
8	IC 410-223551/4	30.0	42.038676	5.0	729422.0	1.401289	Y



Calibration / 4-Nitroquinoline-1-oxide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

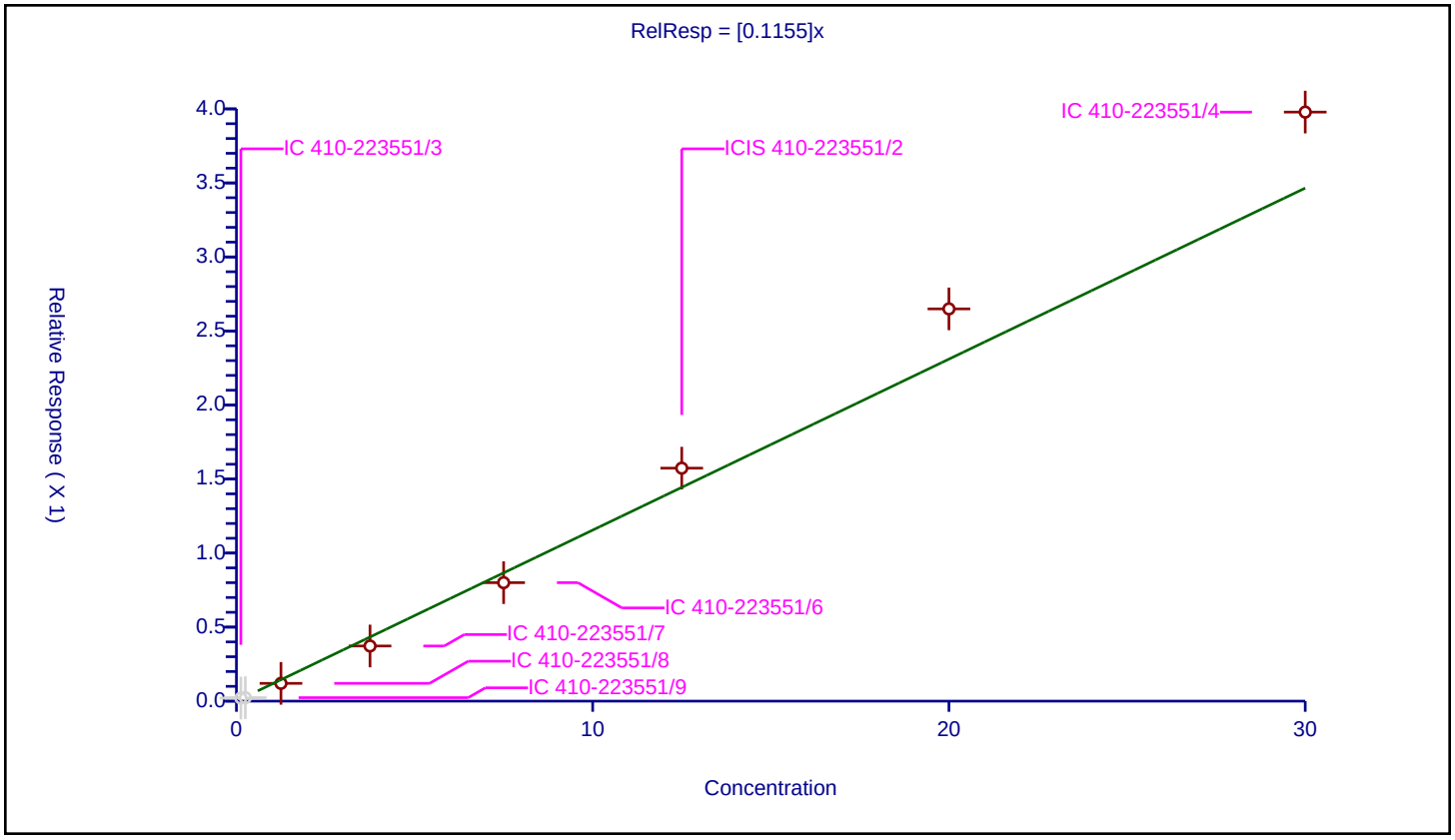
Curve Coefficients

Intercept:	0
Slope:	0.1155

Error Coefficients

Standard Error:	334000
Relative Standard Error:	14.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.02051	5.0	678213.0	0.164078	N
2	IC 410-223551/9	0.25	0.023462	5.0	689402.0	0.093849	N
3	IC 410-223551/8	1.25	0.120086	5.0	683800.0	0.096069	Y
4	IC 410-223551/7	3.75	0.372413	5.0	635598.0	0.09931	Y
5	IC 410-223551/6	7.5	0.800164	5.0	903509.0	0.106688	Y
6	ICIS 410-223551/2	12.5	1.57347	5.0	791121.0	0.125878	Y
7	IC 410-223551/5	20.0	2.649303	5.0	694777.0	0.132465	Y
8	IC 410-223551/4	30.0	3.978342	5.0	729422.0	0.132611	Y



Calibration / Ethyl Parathion

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

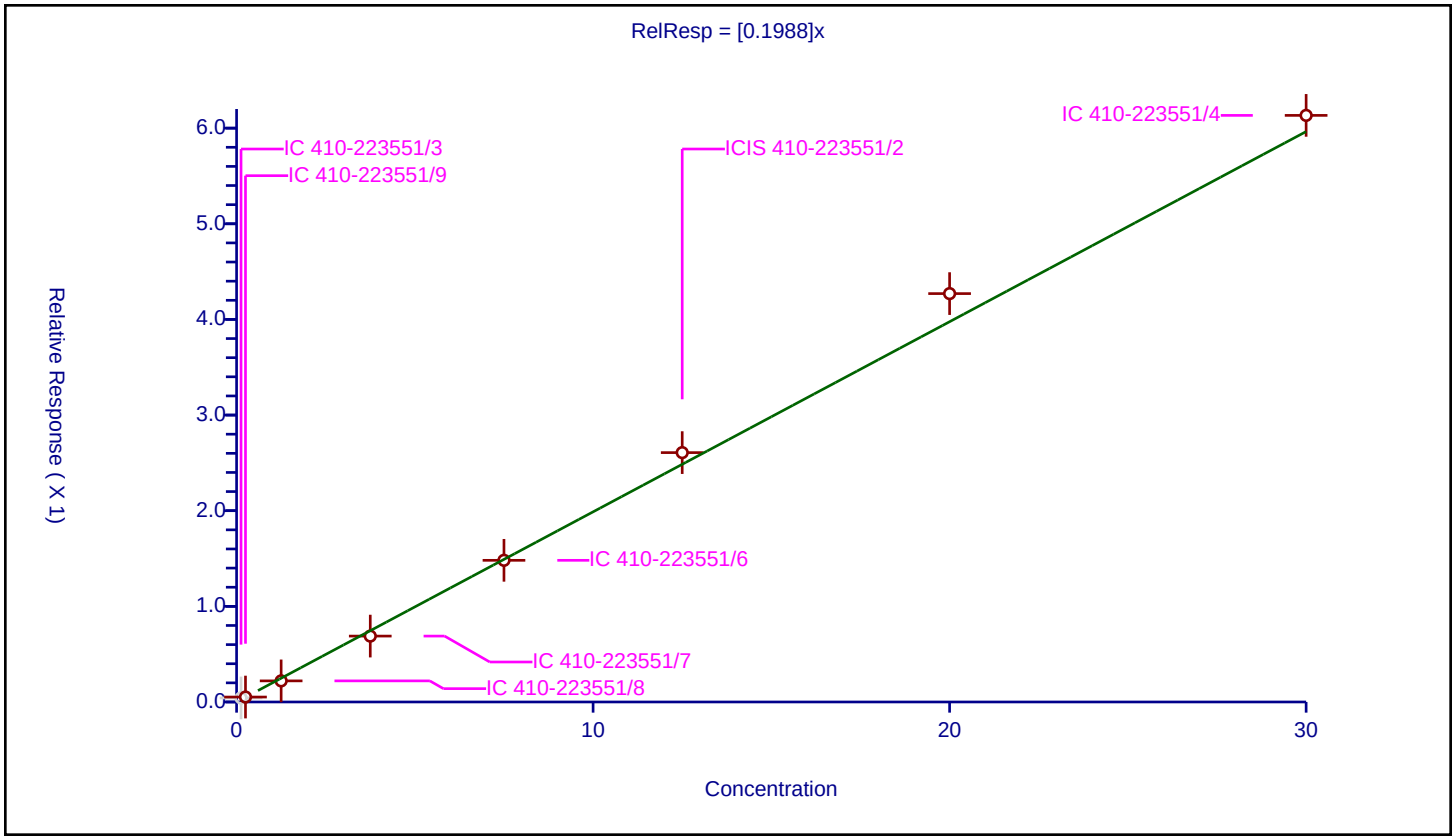
Curve Coefficients

Intercept:	0
Slope:	0.1988

Error Coefficients

Standard Error:	484000
Relative Standard Error:	6.9
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.042258	5.0	678213.0	0.338065	N
2	IC 410-223551/9	0.25	0.051828	5.0	689402.0	0.20731	Y
3	IC 410-223551/8	1.25	0.220715	5.0	683800.0	0.176572	Y
4	IC 410-223551/7	3.75	0.689075	5.0	635598.0	0.183753	Y
5	IC 410-223551/6	7.5	1.481114	5.0	903509.0	0.197482	Y
6	ICIS 410-223551/2	12.5	2.607326	5.0	791121.0	0.208586	Y
7	IC 410-223551/5	20.0	4.269895	5.0	694777.0	0.213495	Y
8	IC 410-223551/4	30.0	6.133343	5.0	729422.0	0.204445	Y



Calibration / Octachlorostyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

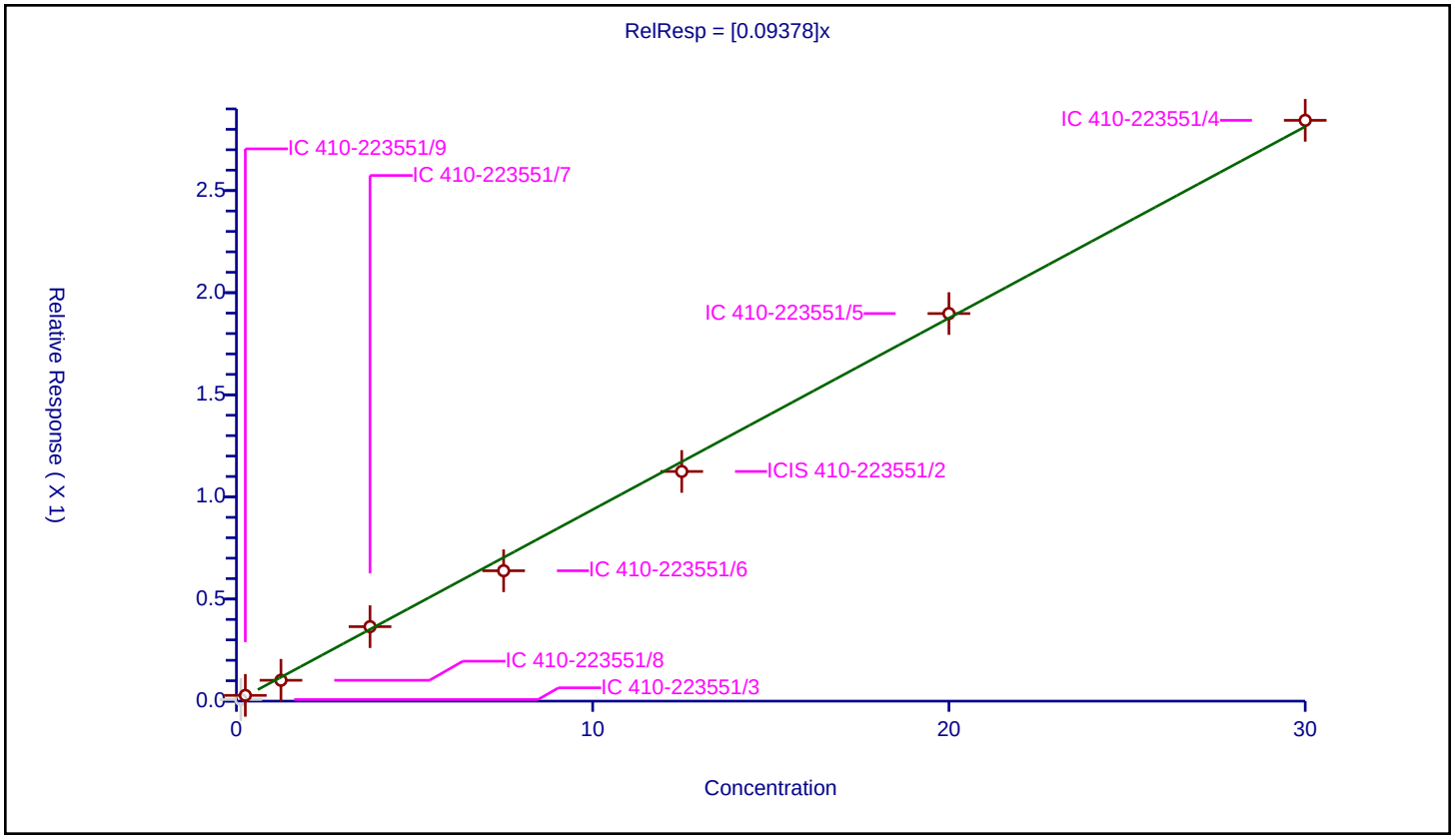
Curve Coefficients

Intercept:	0
Slope:	0.09378

Error Coefficients

Standard Error:	219000
Relative Standard Error:	10.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.007866	5.0	678213.0	0.06293	N
2	IC 410-223551/9	0.25	0.028177	5.0	689402.0	0.112706	Y
3	IC 410-223551/8	1.25	0.102121	5.0	683800.0	0.081696	Y
4	IC 410-223551/7	3.75	0.364704	5.0	635598.0	0.097254	Y
5	IC 410-223551/6	7.5	0.638394	5.0	903509.0	0.085119	Y
6	ICIS 410-223551/2	12.5	1.124632	5.0	791121.0	0.089971	Y
7	IC 410-223551/5	20.0	1.897875	5.0	694777.0	0.094894	Y
8	IC 410-223551/4	30.0	2.844005	5.0	729422.0	0.0948	Y



Calibration / Isodrin

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

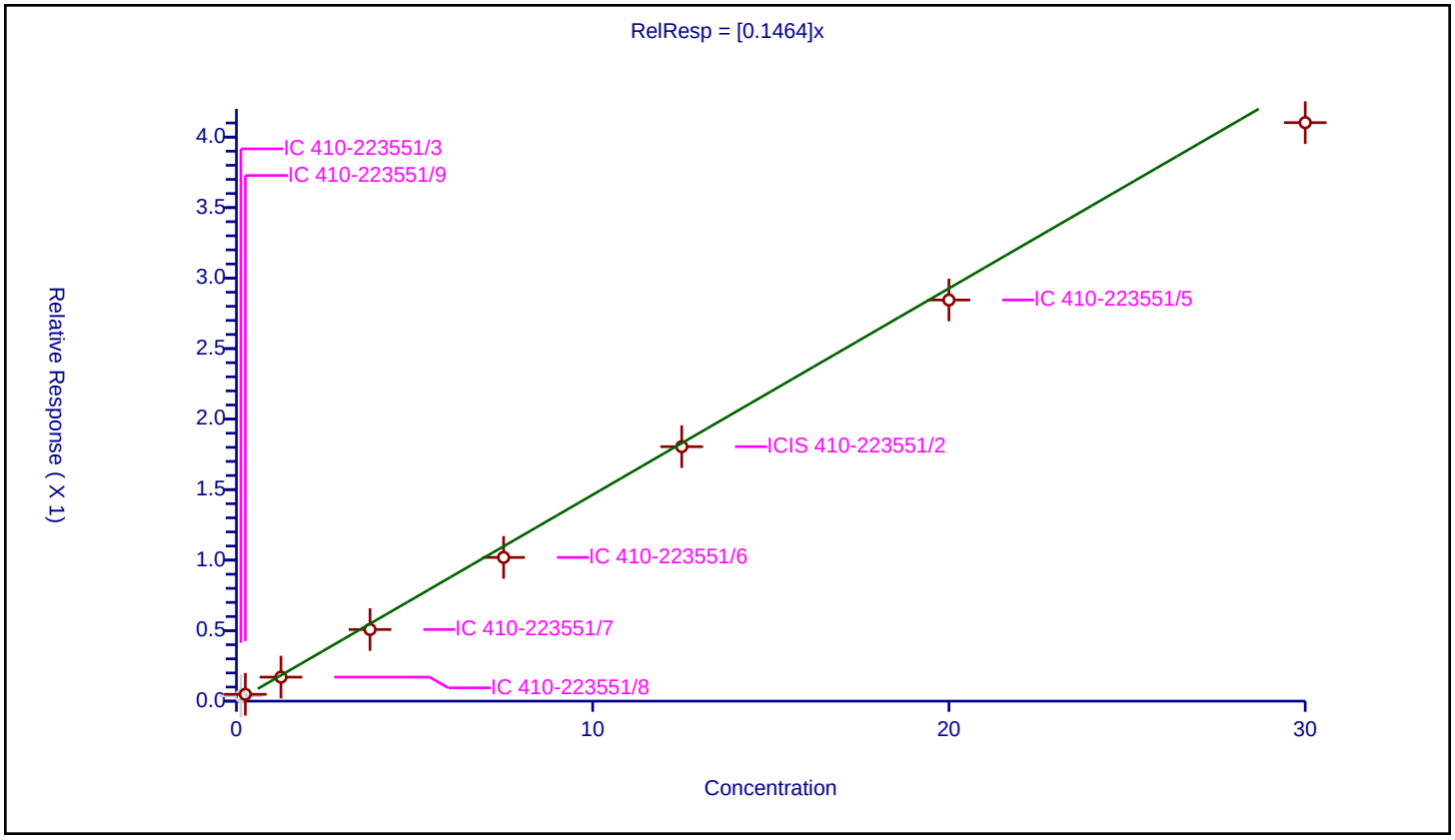
Curve Coefficients

Intercept:	0
Slope:	0.1464

Error Coefficients

Standard Error:	325000
Relative Standard Error:	14.4
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.036559	5.0	678213.0	0.292474	N
2	IC 410-223551/9	0.25	0.048412	5.0	689402.0	0.193646	Y
3	IC 410-223551/8	1.25	0.170211	5.0	683800.0	0.136168	Y
4	IC 410-223551/7	3.75	0.507939	5.0	635598.0	0.13545	Y
5	IC 410-223551/6	7.5	1.019071	5.0	903509.0	0.135876	Y
6	ICIS 410-223551/2	12.5	1.804711	5.0	791121.0	0.144377	Y
7	IC 410-223551/5	20.0	2.844711	5.0	694777.0	0.142236	Y
8	IC 410-223551/4	30.0	4.102515	5.0	729422.0	0.136751	Y



Calibration / Fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

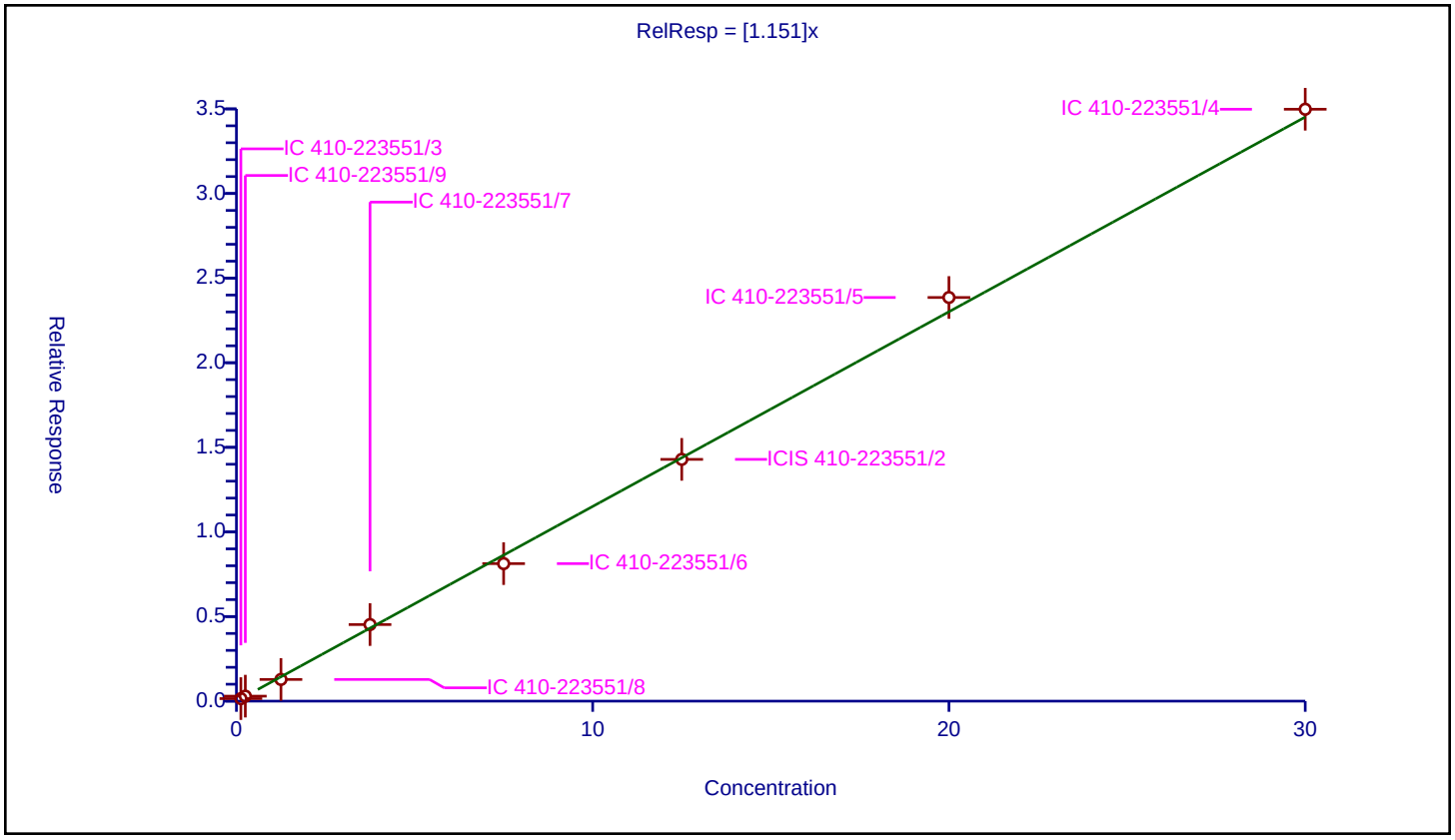
Curve Coefficients

Intercept:	0
Slope:	1.151

Error Coefficients

Standard Error:	2530000
Relative Standard Error:	5.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.150491	5.0	678213.0	1.203929	Y
2	IC 410-223551/9	0.25	0.295822	5.0	689402.0	1.183286	Y
3	IC 410-223551/8	1.25	1.281318	5.0	683800.0	1.025054	Y
4	IC 410-223551/7	3.75	4.526682	5.0	635598.0	1.207115	Y
5	IC 410-223551/6	7.5	8.12698	5.0	903509.0	1.083597	Y
6	ICIS 410-223551/2	12.5	14.288232	5.0	791121.0	1.143059	Y
7	IC 410-223551/5	20.0	23.854345	5.0	694777.0	1.192717	Y
8	IC 410-223551/4	30.0	34.979148	5.0	729422.0	1.165972	Y



Calibration / Benzidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

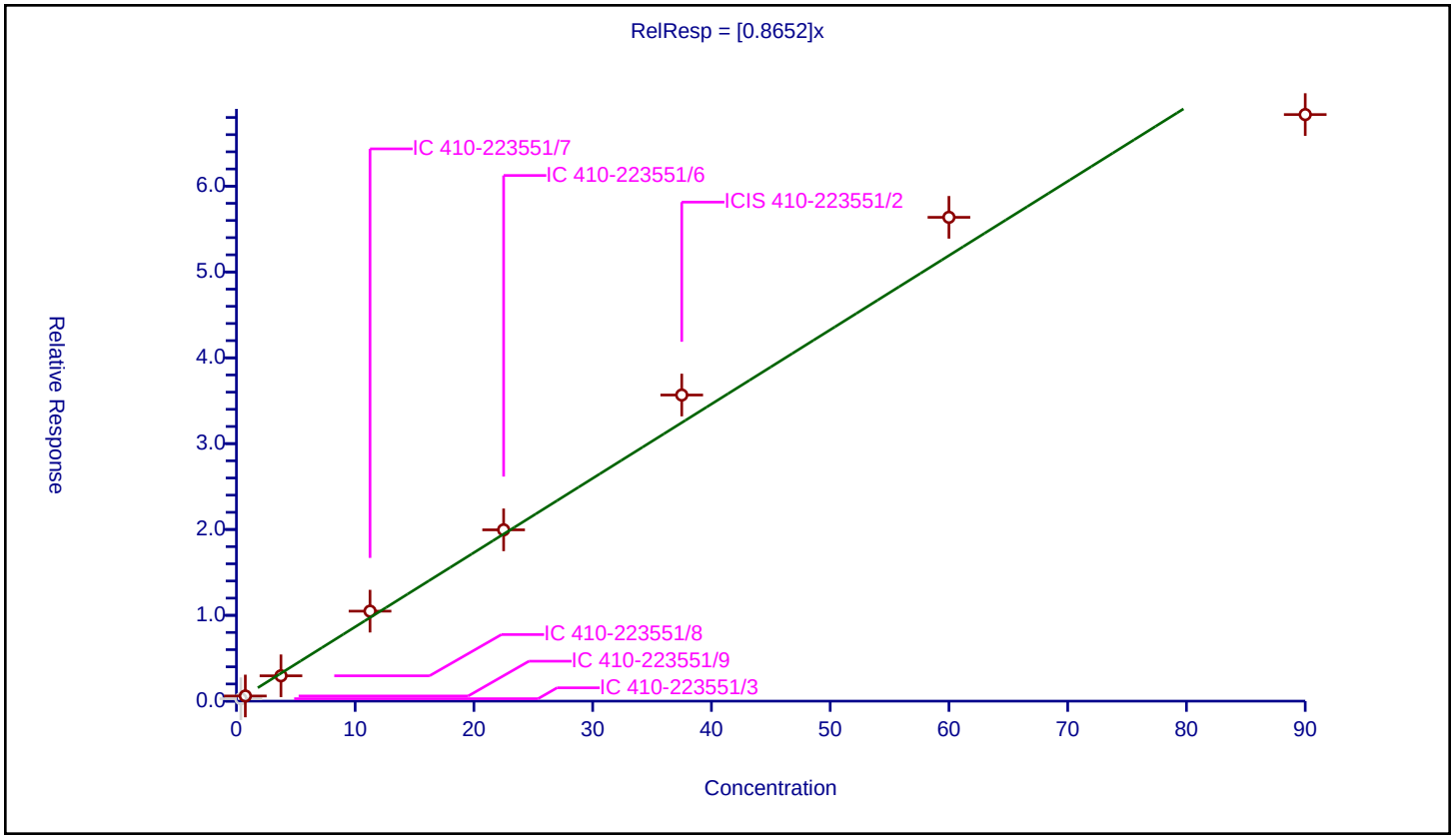
Curve Coefficients

Intercept:	0
Slope:	0.8652

Error Coefficients

Standard Error:	5500000
Relative Standard Error:	9.4
Correlation Coefficient:	0.969
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.375	0.283539	5.0	650017.0	0.756103	N
2	IC 410-223551/9	0.75	0.59998	5.0	654505.0	0.799974	Y
3	IC 410-223551/8	3.75	2.953841	5.0	665613.0	0.787691	Y
4	IC 410-223551/7	11.25	10.48404	5.0	591180.0	0.931915	Y
5	IC 410-223551/6	22.5	19.957866	5.0	830333.0	0.887016	Y
6	ICIS 410-223551/2	37.5	35.664992	5.0	732174.0	0.951066	Y
7	IC 410-223551/5	60.0	56.367662	5.0	661980.0	0.939461	Y
8	IC 410-223551/4	90.0	68.339056	5.0	677145.0	0.759323	Y



Calibration / Pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

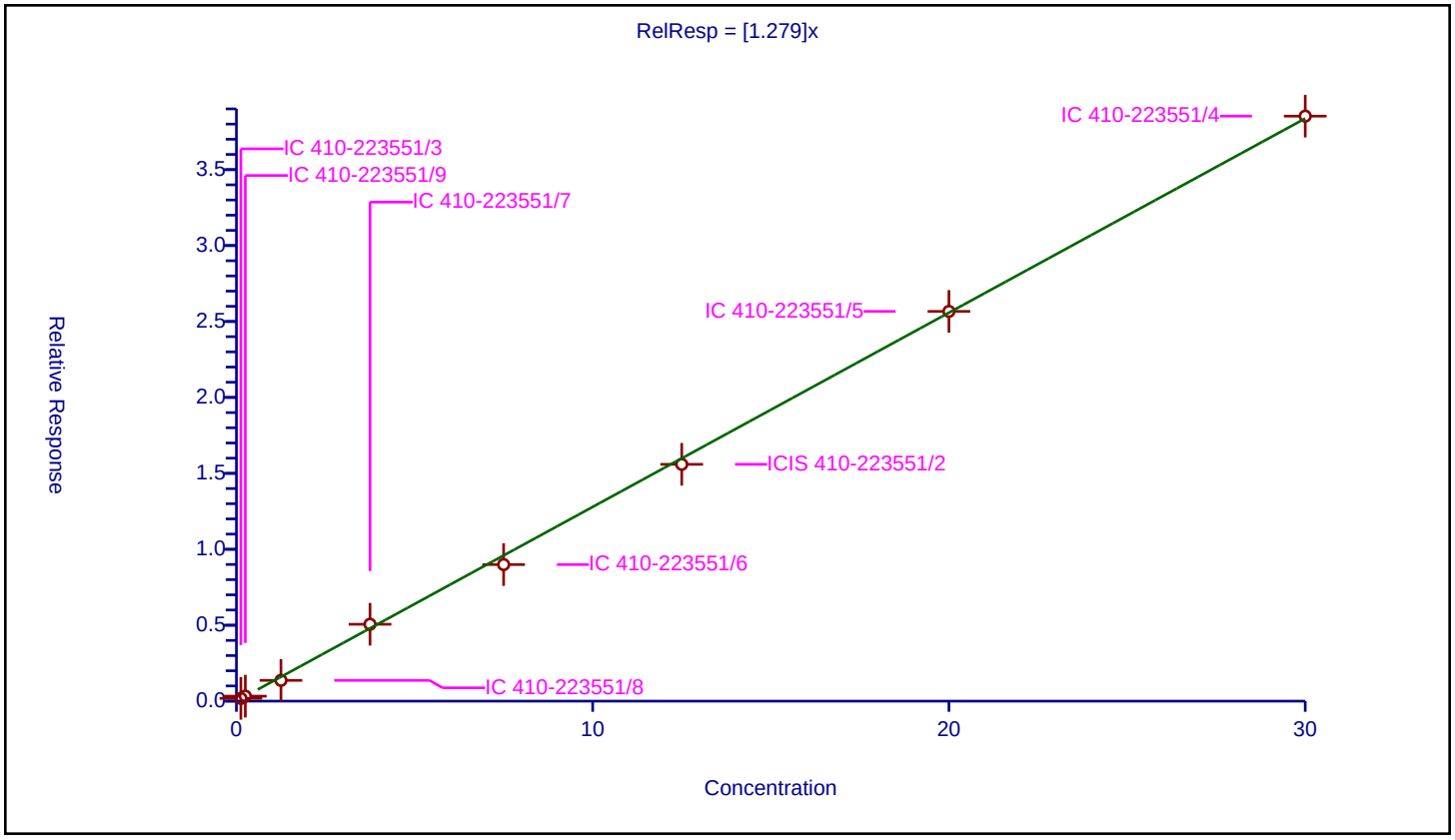
Curve Coefficients

Intercept:	0
Slope:	1.279

Error Coefficients

Standard Error:	2580000
Relative Standard Error:	8.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.182603	5.0	650017.0	1.460823	Y
2	IC 410-223551/9	0.25	0.328508	5.0	654505.0	1.314031	Y
3	IC 410-223551/8	1.25	1.366492	5.0	665613.0	1.093194	Y
4	IC 410-223551/7	3.75	5.062637	5.0	591180.0	1.350037	Y
5	IC 410-223551/6	7.5	8.992675	5.0	830333.0	1.199023	Y
6	ICIS 410-223551/2	12.5	15.595132	5.0	732174.0	1.247611	Y
7	IC 410-223551/5	20.0	25.665549	5.0	661980.0	1.283277	Y
8	IC 410-223551/4	30.0	38.522724	5.0	677145.0	1.284091	Y



Calibration / p-Terphenyl-d14

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

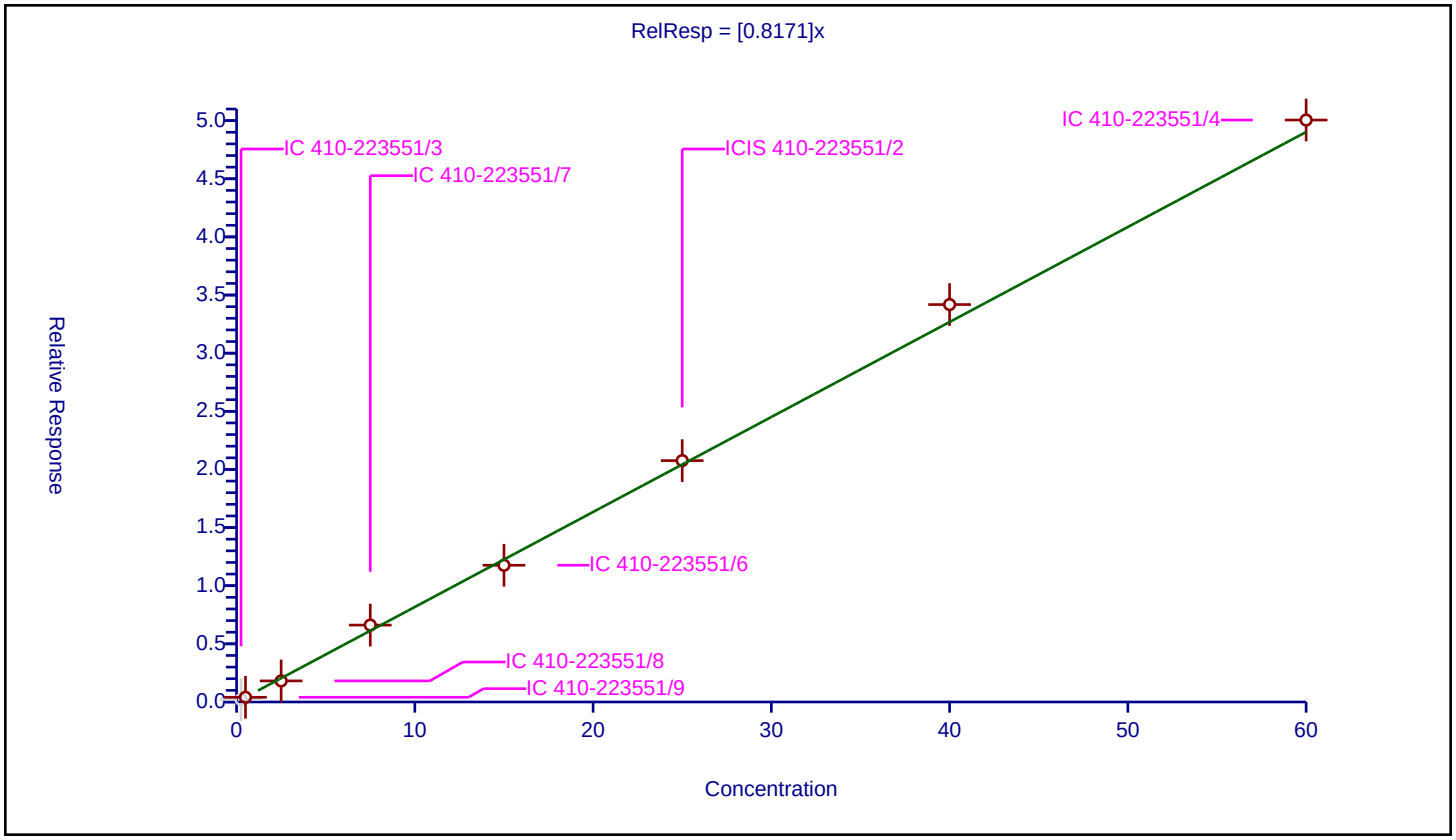
Curve Coefficients

Intercept:	0
Slope:	0.8171

Error Coefficients

Standard Error:	3660000
Relative Standard Error:	6.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.25	0.214664	5.0	650017.0	0.858654	N
2	IC 410-223551/9	0.5	0.404863	5.0	654505.0	0.809726	Y
3	IC 410-223551/8	2.5	1.812119	5.0	665613.0	0.724848	Y
4	IC 410-223551/7	7.5	6.613104	5.0	591180.0	0.881747	Y
5	IC 410-223551/6	15.0	11.759288	5.0	830333.0	0.783953	Y
6	ICIS 410-223551/2	25.0	20.760236	5.0	732174.0	0.830409	Y
7	IC 410-223551/5	40.0	34.182634	5.0	661980.0	0.854566	Y
8	IC 410-223551/4	60.0	50.051843	5.0	677145.0	0.834197	Y



Calibration / p-Dimethylamino azobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

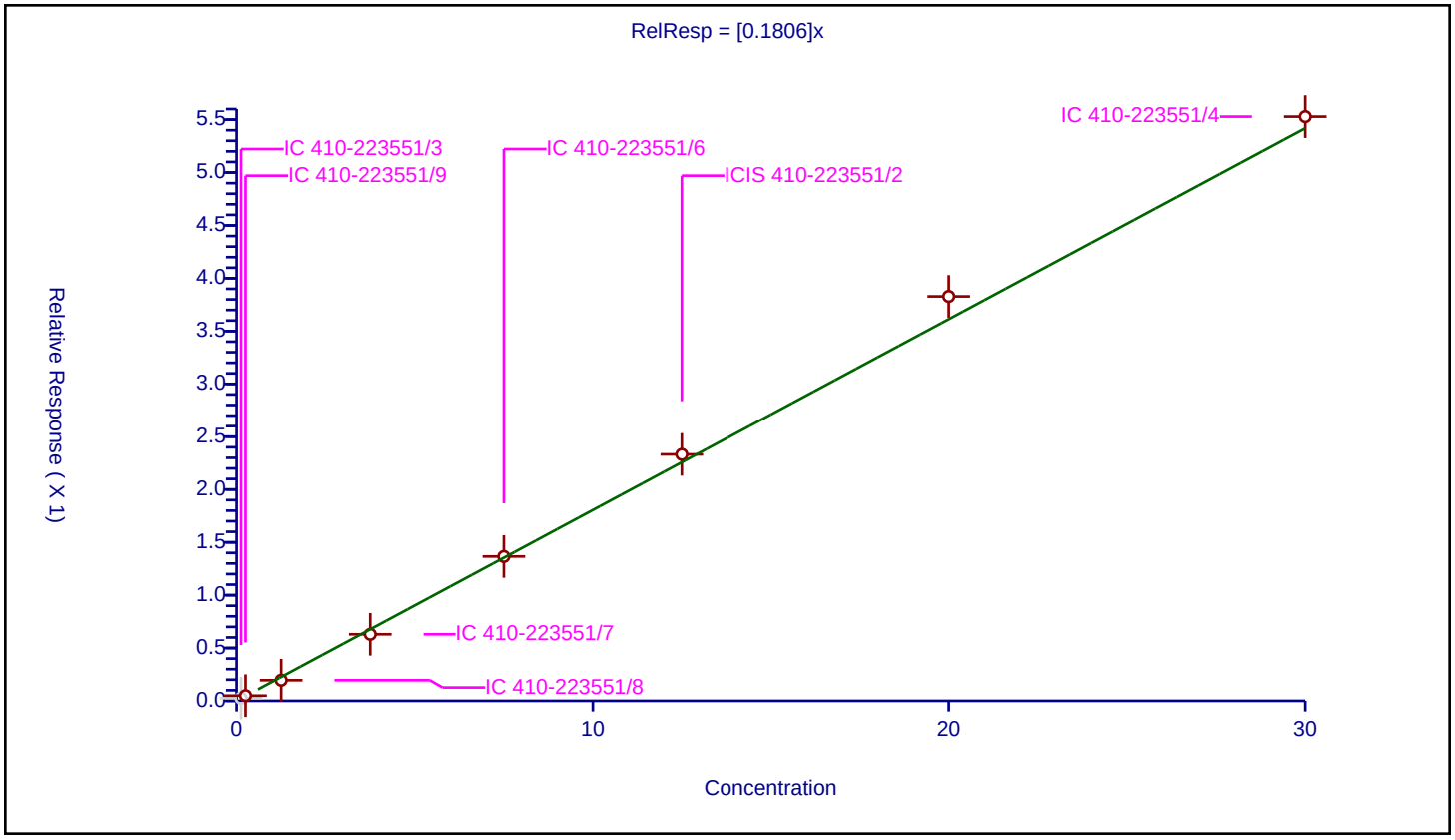
Curve Coefficients

Intercept:	0
Slope:	0.1806

Error Coefficients

Standard Error:	407000
Relative Standard Error:	7.7
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.02523	5.0	650017.0	0.201841	N
2	IC 410-223551/9	0.25	0.048968	5.0	654505.0	0.195873	Y
3	IC 410-223551/8	1.25	0.195008	5.0	665613.0	0.156007	Y
4	IC 410-223551/7	3.75	0.630053	5.0	591180.0	0.168014	Y
5	IC 410-223551/6	7.5	1.366596	5.0	830333.0	0.182213	Y
6	ICIS 410-223551/2	12.5	2.332711	5.0	732174.0	0.186617	Y
7	IC 410-223551/5	20.0	3.828363	5.0	661980.0	0.191418	Y
8	IC 410-223551/4	30.0	5.528358	5.0	677145.0	0.184279	Y



Calibration / Chlorobenzilate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

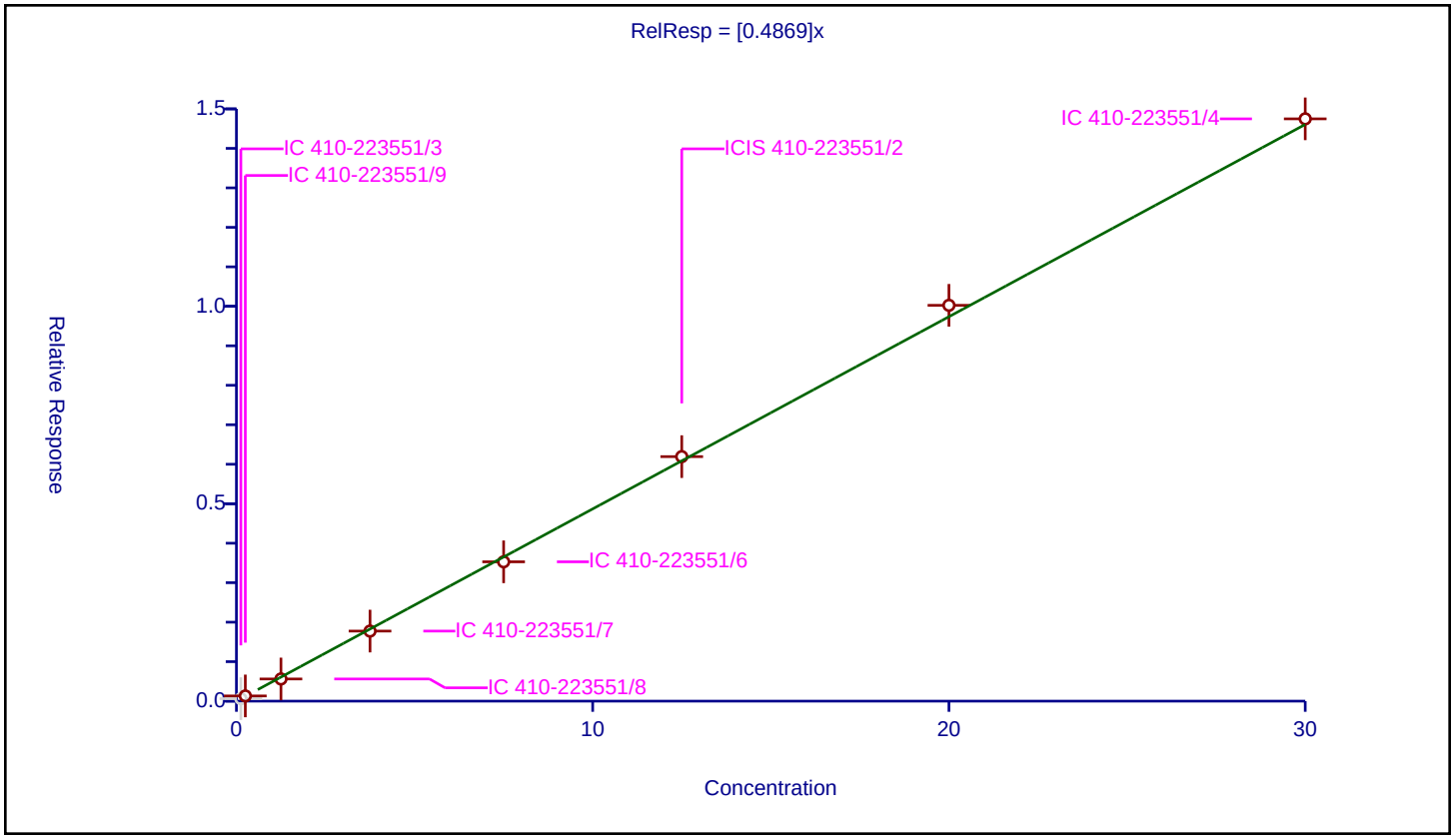
Curve Coefficients

Intercept:	0
Slope:	0.4869

Error Coefficients

Standard Error:	1080000
Relative Standard Error:	5.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.063306	5.0	650017.0	0.506448	N
2	IC 410-223551/9	0.25	0.131672	5.0	654505.0	0.526688	Y
3	IC 410-223551/8	1.25	0.56179	5.0	665613.0	0.449432	Y
4	IC 410-223551/7	3.75	1.774282	5.0	591180.0	0.473142	Y
5	IC 410-223551/6	7.5	3.529084	5.0	830333.0	0.470545	Y
6	ICIS 410-223551/2	12.5	6.192968	5.0	732174.0	0.495437	Y
7	IC 410-223551/5	20.0	10.025197	5.0	661980.0	0.50126	Y
8	IC 410-223551/4	30.0	14.74741	5.0	677145.0	0.49158	Y



Calibration / 3,3'-Dimethylbenzidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

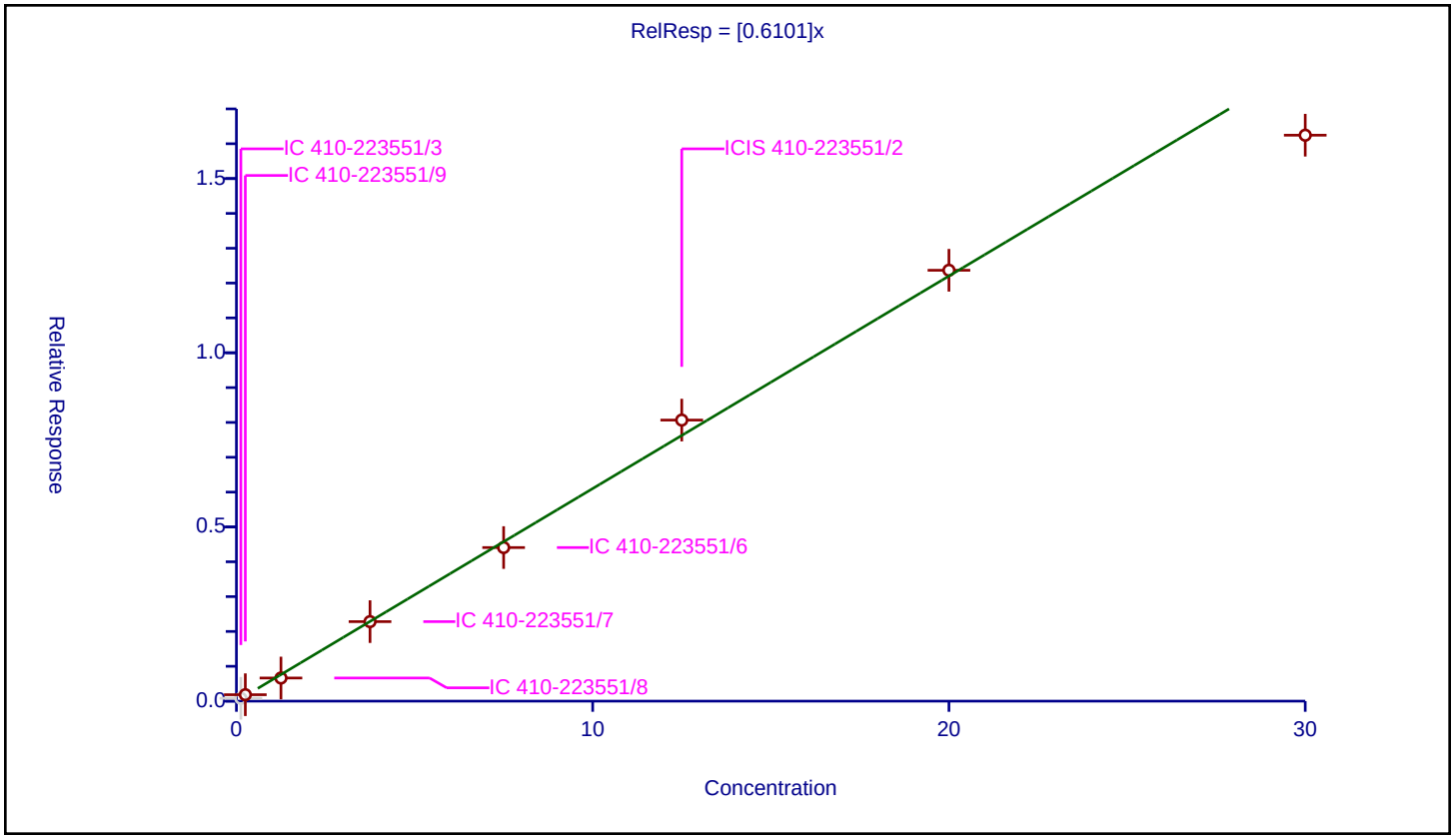
Curve Coefficients

Intercept:	0
Slope:	0.6101

Error Coefficients

Standard Error:	1260000
Relative Standard Error:	11.4
Correlation Coefficient:	0.982
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.082352	5.0	650017.0	0.658814	N
2	IC 410-223551/9	0.25	0.184491	5.0	654505.0	0.737962	Y
3	IC 410-223551/8	1.25	0.66405	5.0	665613.0	0.53124	Y
4	IC 410-223551/7	3.75	2.282486	5.0	591180.0	0.608663	Y
5	IC 410-223551/6	7.5	4.408846	5.0	830333.0	0.587846	Y
6	ICIS 410-223551/2	12.5	8.067201	5.0	732174.0	0.645376	Y
7	IC 410-223551/5	20.0	12.367572	5.0	661980.0	0.618379	Y
8	IC 410-223551/4	30.0	16.244748	5.0	677145.0	0.541492	Y



Calibration / Butyl benzyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

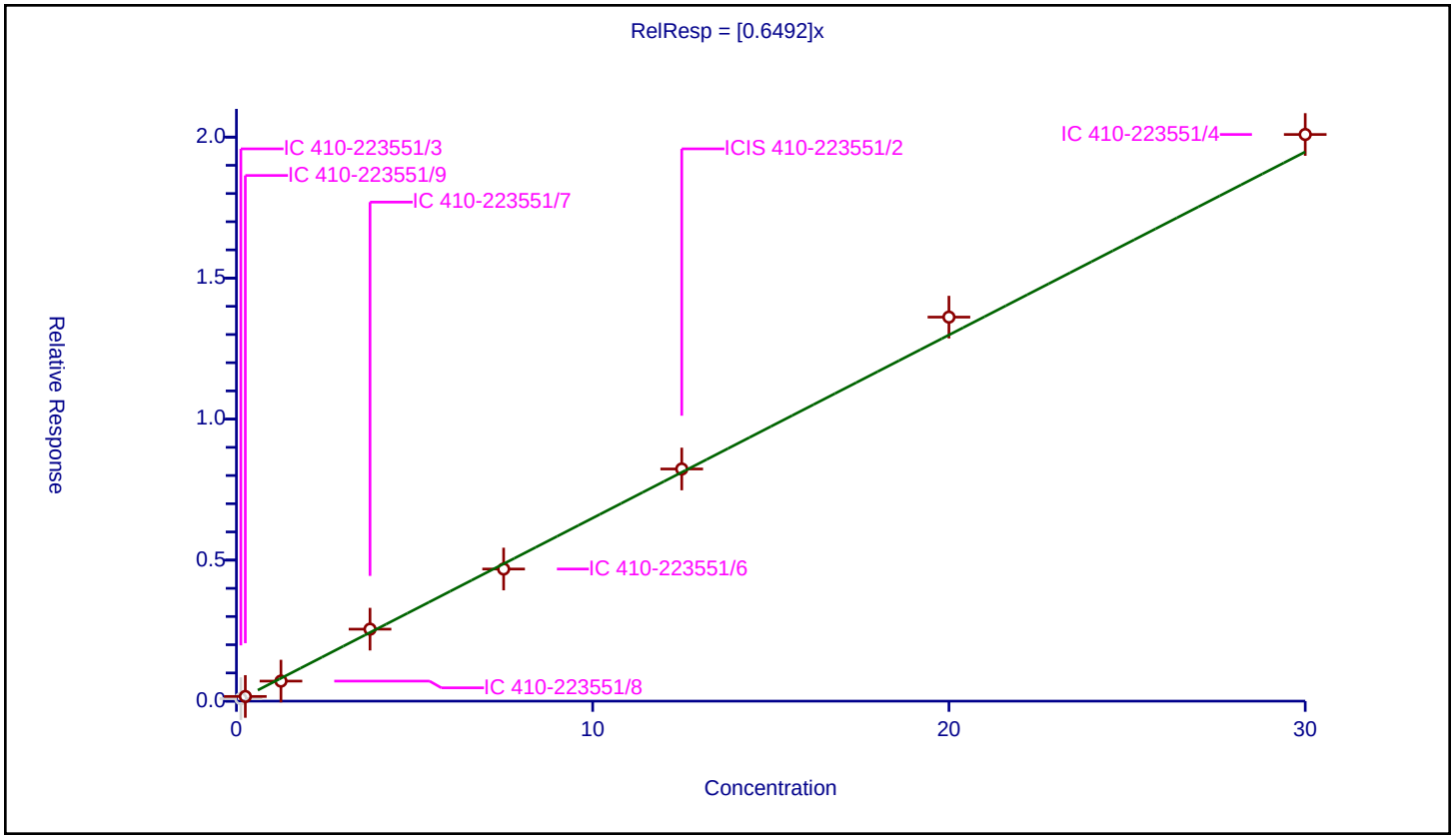
Curve Coefficients

Intercept:	0
Slope:	0.6492

Error Coefficients

Standard Error:	1460000
Relative Standard Error:	6.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.088721	5.0	650017.0	0.709766	N
2	IC 410-223551/9	0.25	0.165308	5.0	654505.0	0.661233	Y
3	IC 410-223551/8	1.25	0.710984	5.0	665613.0	0.568787	Y
4	IC 410-223551/7	3.75	2.551922	5.0	591180.0	0.680512	Y
5	IC 410-223551/6	7.5	4.684729	5.0	830333.0	0.624631	Y
6	ICIS 410-223551/2	12.5	8.231329	5.0	732174.0	0.658506	Y
7	IC 410-223551/5	20.0	13.616476	5.0	661980.0	0.680824	Y
8	IC 410-223551/4	30.0	20.09255	5.0	677145.0	0.669752	Y



Calibration / 2-Acetylaminofluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

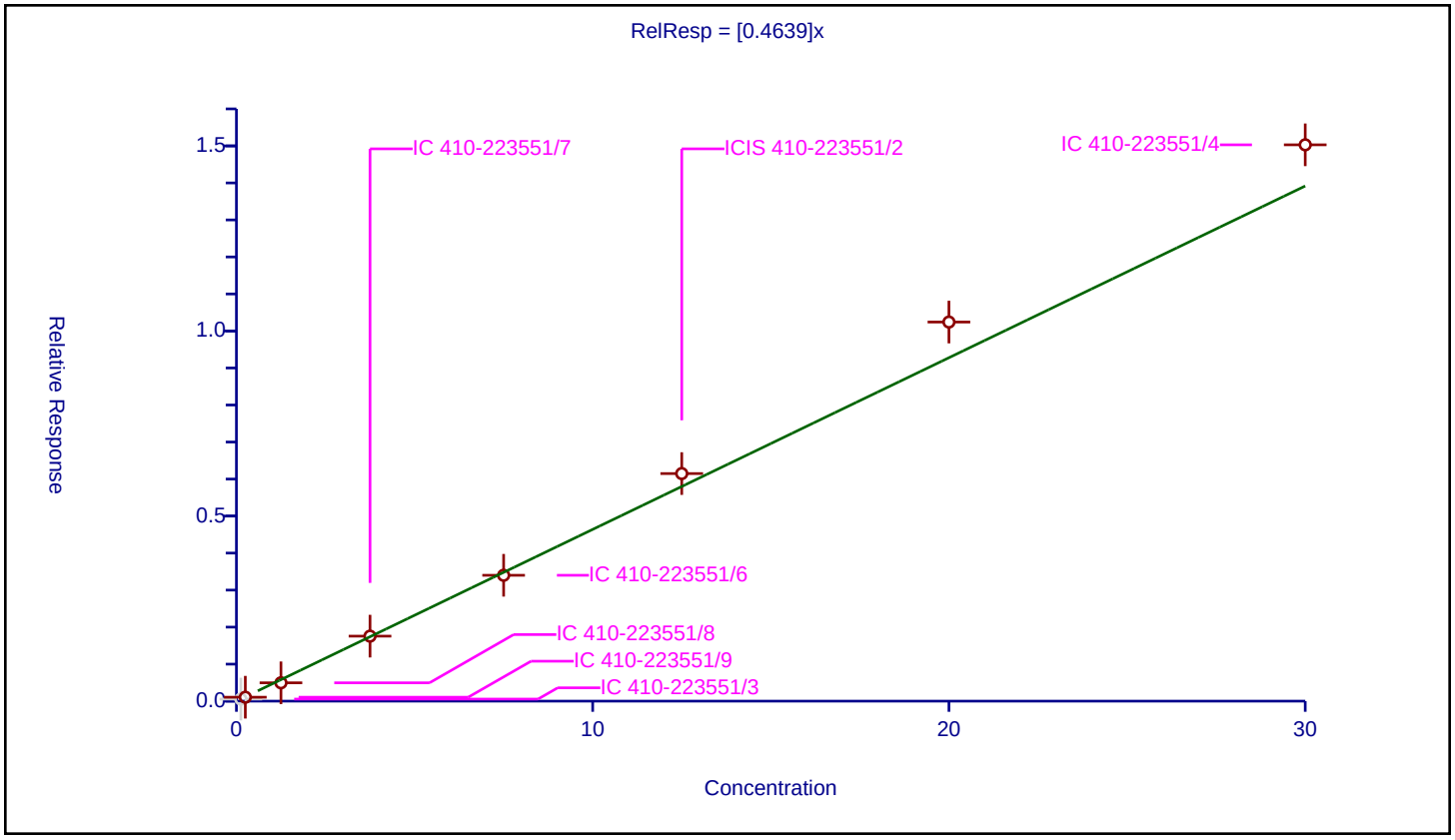
Curve Coefficients

Intercept:	0
Slope:	0.4639

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	9.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.055837	5.0	650017.0	0.446696	N
2	IC 410-223551/9	0.25	0.106057	5.0	654505.0	0.424229	Y
3	IC 410-223551/8	1.25	0.495633	5.0	665613.0	0.396507	Y
4	IC 410-223551/7	3.75	1.756098	5.0	591180.0	0.468293	Y
5	IC 410-223551/6	7.5	3.400395	5.0	830333.0	0.453386	Y
6	ICIS 410-223551/2	12.5	6.147856	5.0	732174.0	0.491828	Y
7	IC 410-223551/5	20.0	10.241374	5.0	661980.0	0.512069	Y
8	IC 410-223551/4	30.0	15.029041	5.0	677145.0	0.500968	Y



Calibration / 3,3'-Dichlorobenzidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

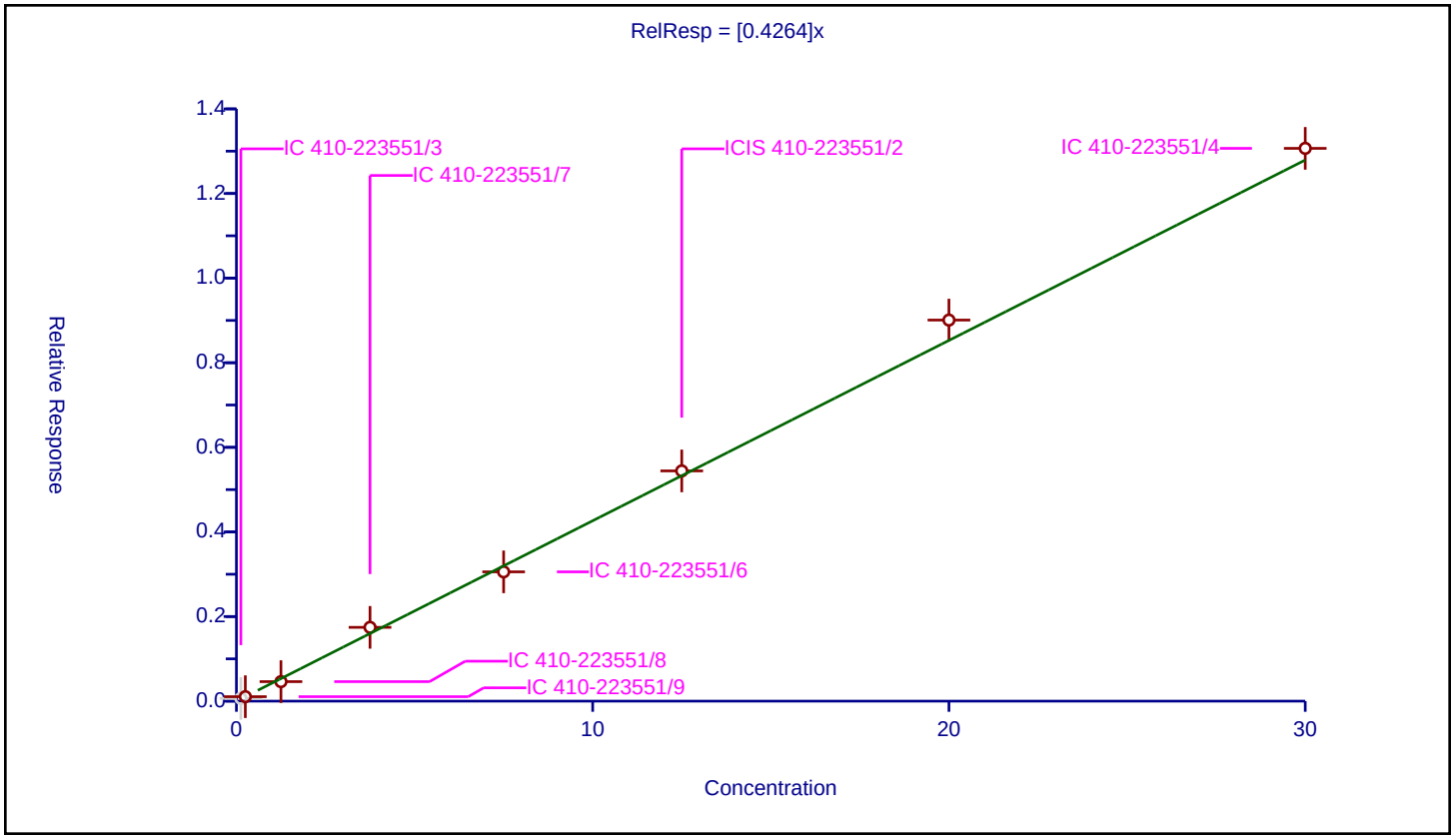
Curve Coefficients

Intercept:	0
Slope:	0.4264

Error Coefficients

Standard Error:	957000
Relative Standard Error:	7.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.065344	5.0	650017.0	0.522756	N
2	IC 410-223551/9	0.25	0.105431	5.0	654505.0	0.421723	Y
3	IC 410-223551/8	1.25	0.460921	5.0	665613.0	0.368737	Y
4	IC 410-223551/7	3.75	1.74413	5.0	591180.0	0.465101	Y
5	IC 410-223551/6	7.5	3.056551	5.0	830333.0	0.40754	Y
6	ICIS 410-223551/2	12.5	5.442811	5.0	732174.0	0.435425	Y
7	IC 410-223551/5	20.0	9.007848	5.0	661980.0	0.450392	Y
8	IC 410-223551/4	30.0	13.066899	5.0	677145.0	0.435563	Y



Calibration / 4,4'-Methylene bis(2-chloroaniline)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

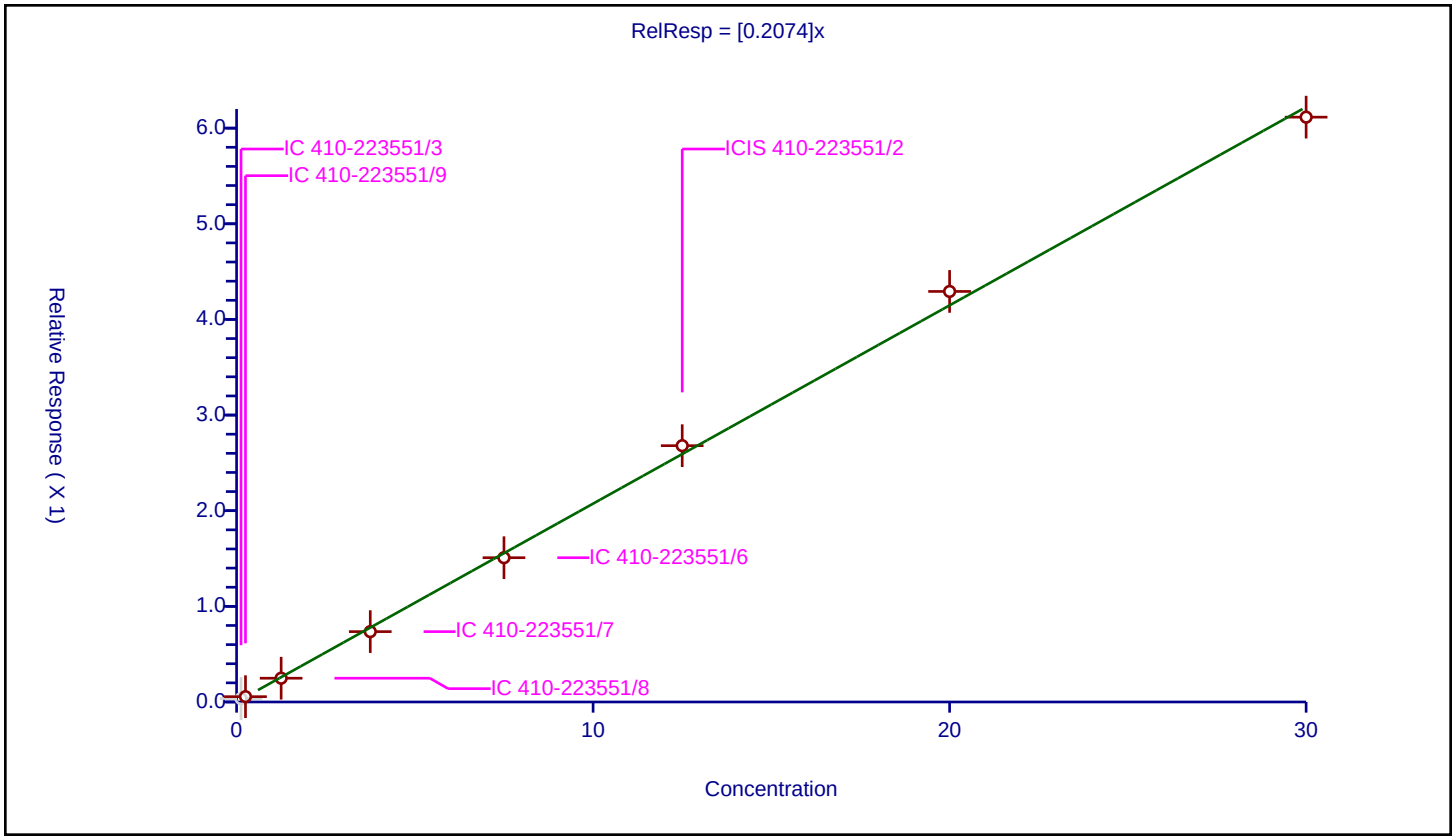
Curve Coefficients

Intercept:	0
Slope:	0.2074

Error Coefficients

Standard Error:	454000
Relative Standard Error:	4.7
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.035814	5.0	650017.0	0.286516	N
2	IC 410-223551/9	0.25	0.055637	5.0	654505.0	0.22255	Y
3	IC 410-223551/8	1.25	0.248635	5.0	665613.0	0.198908	Y
4	IC 410-223551/7	3.75	0.735546	5.0	591180.0	0.196146	Y
5	IC 410-223551/6	7.5	1.508455	5.0	830333.0	0.201127	Y
6	ICIS 410-223551/2	12.5	2.679834	5.0	732174.0	0.214387	Y
7	IC 410-223551/5	20.0	4.292622	5.0	661980.0	0.214631	Y
8	IC 410-223551/4	30.0	6.114857	5.0	677145.0	0.203829	Y



Calibration / Benzo[a]anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

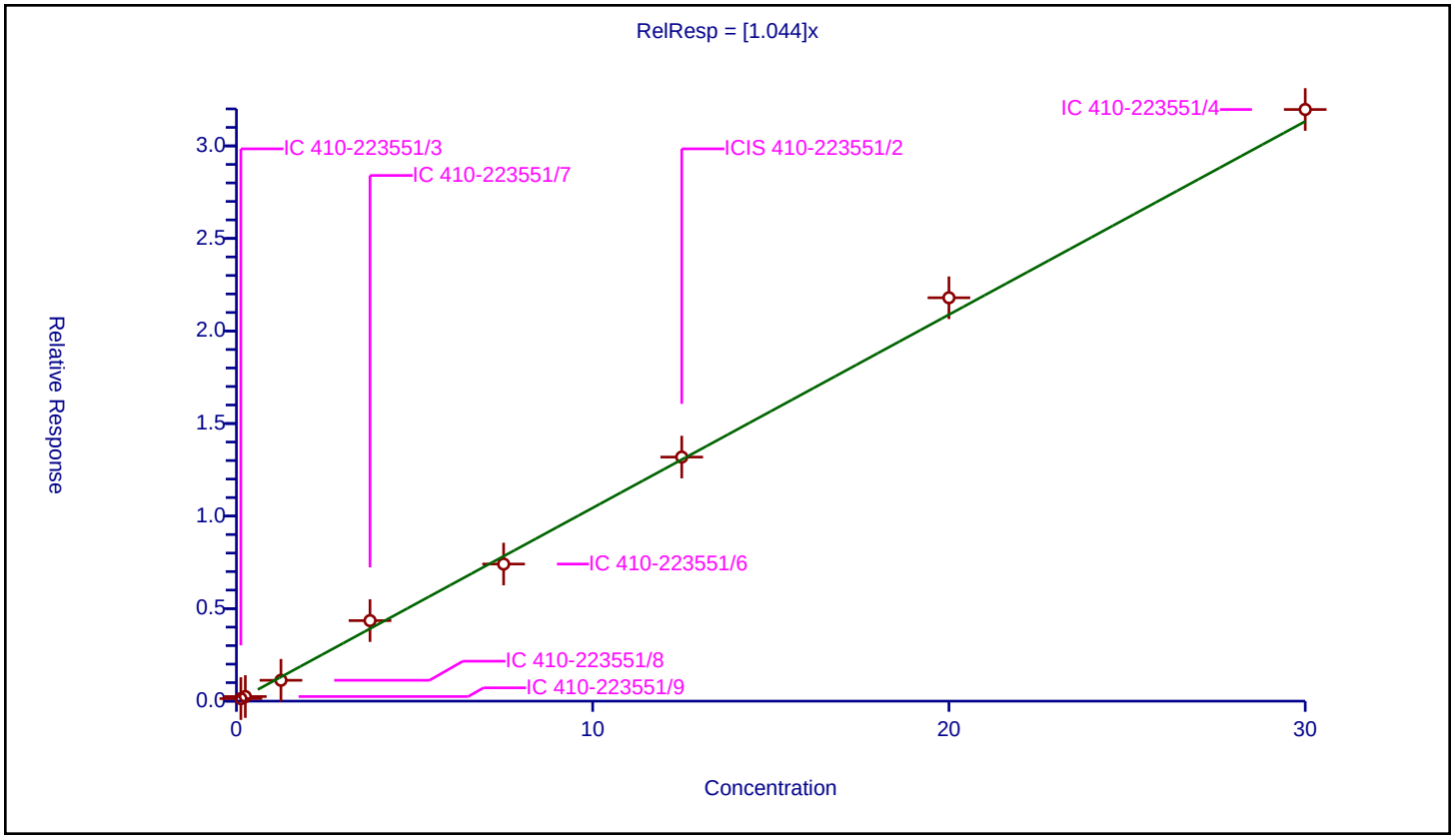
Curve Coefficients

Intercept:	0
Slope:	1.044

Error Coefficients

Standard Error:	2160000
Relative Standard Error:	7.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.137819	5.0	650017.0	1.102556	Y
2	IC 410-223551/9	0.25	0.247546	5.0	654505.0	0.990183	Y
3	IC 410-223551/8	1.25	1.12772	5.0	665613.0	0.902176	Y
4	IC 410-223551/7	3.75	4.350942	5.0	591180.0	1.160251	Y
5	IC 410-223551/6	7.5	7.408227	5.0	830333.0	0.987764	Y
6	ICIS 410-223551/2	12.5	13.186606	5.0	732174.0	1.054928	Y
7	IC 410-223551/5	20.0	21.7959	5.0	661980.0	1.089795	Y
8	IC 410-223551/4	30.0	31.966861	5.0	677145.0	1.065562	Y



Calibration / Chrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

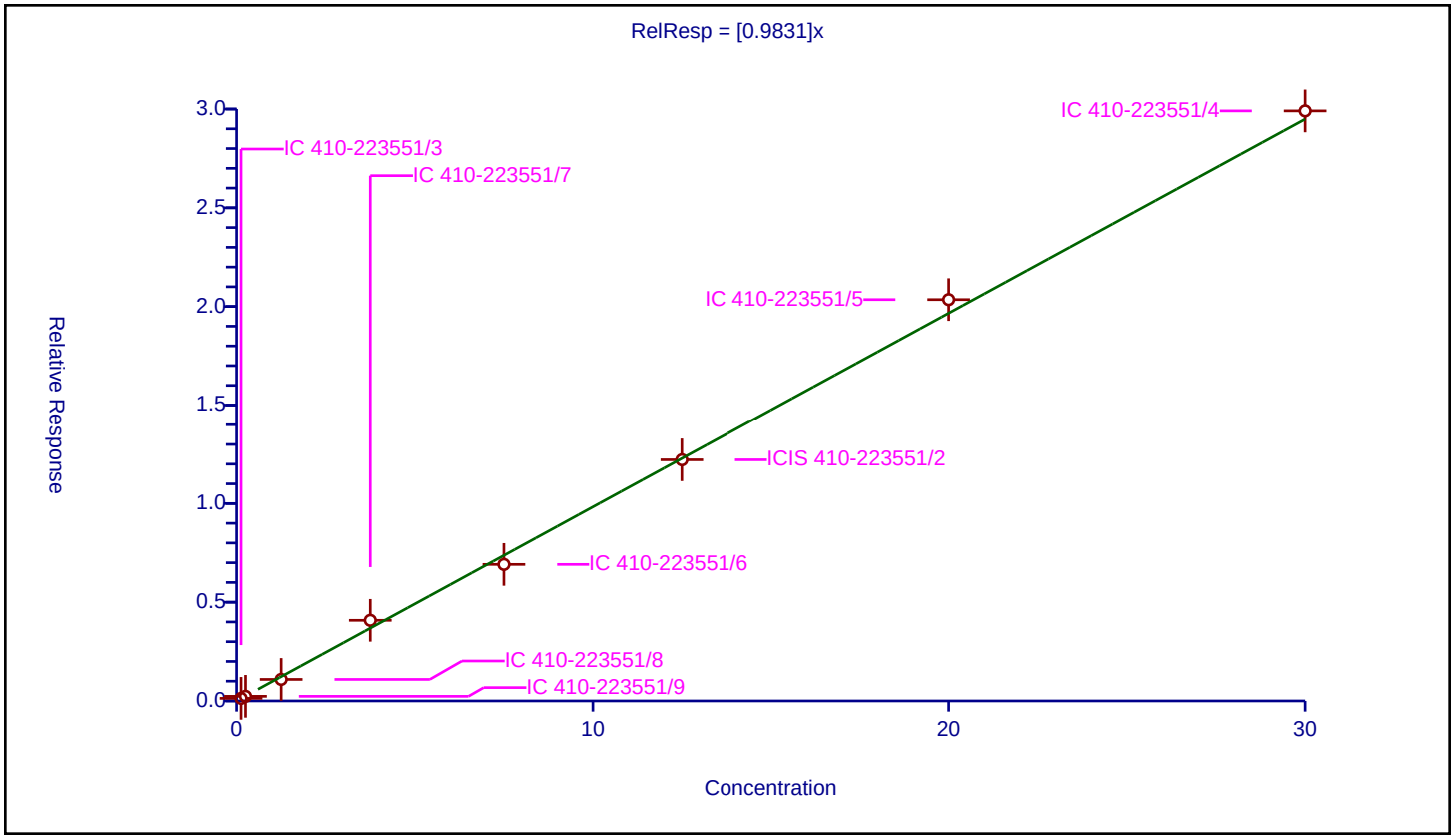
Curve Coefficients

Intercept:	0
Slope:	0.9831

Error Coefficients

Standard Error:	2020000
Relative Standard Error:	7.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.131989	5.0	650017.0	1.055911	Y
2	IC 410-223551/9	0.25	0.233497	5.0	654505.0	0.933988	Y
3	IC 410-223551/8	1.25	1.08983	5.0	665613.0	0.871864	Y
4	IC 410-223551/7	3.75	4.083054	5.0	591180.0	1.088814	Y
5	IC 410-223551/6	7.5	6.914912	5.0	830333.0	0.921988	Y
6	ICIS 410-223551/2	12.5	12.219711	5.0	732174.0	0.977577	Y
7	IC 410-223551/5	20.0	20.348983	5.0	661980.0	1.017449	Y
8	IC 410-223551/4	30.0	29.904895	5.0	677145.0	0.99683	Y



Calibration / Bis(2-ethylhexyl) phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

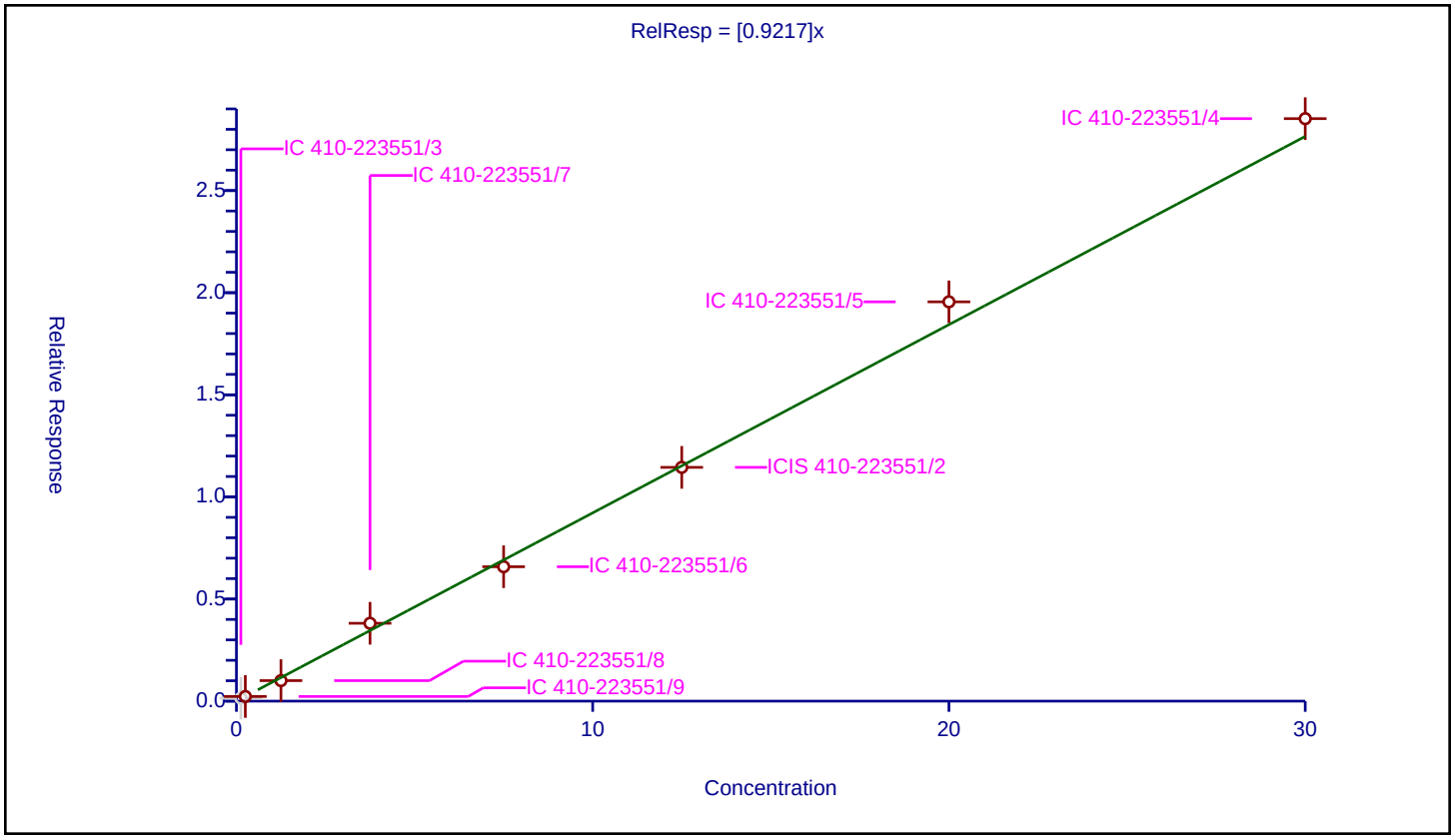
Curve Coefficients

Intercept:	0
Slope:	0.9217

Error Coefficients

Standard Error:	2080000
Relative Standard Error:	7.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.147881	5.0	650017.0	1.183046	N
2	IC 410-223551/9	0.25	0.2275	5.0	654505.0	0.910001	Y
3	IC 410-223551/8	1.25	1.004848	5.0	665613.0	0.803879	Y
4	IC 410-223551/7	3.75	3.812113	5.0	591180.0	1.016563	Y
5	IC 410-223551/6	7.5	6.581956	5.0	830333.0	0.877594	Y
6	ICIS 410-223551/2	12.5	11.446958	5.0	732174.0	0.915757	Y
7	IC 410-223551/5	20.0	19.552653	5.0	661980.0	0.977633	Y
8	IC 410-223551/4	30.0	28.522606	5.0	677145.0	0.950754	Y



Calibration / 6-Methylchrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

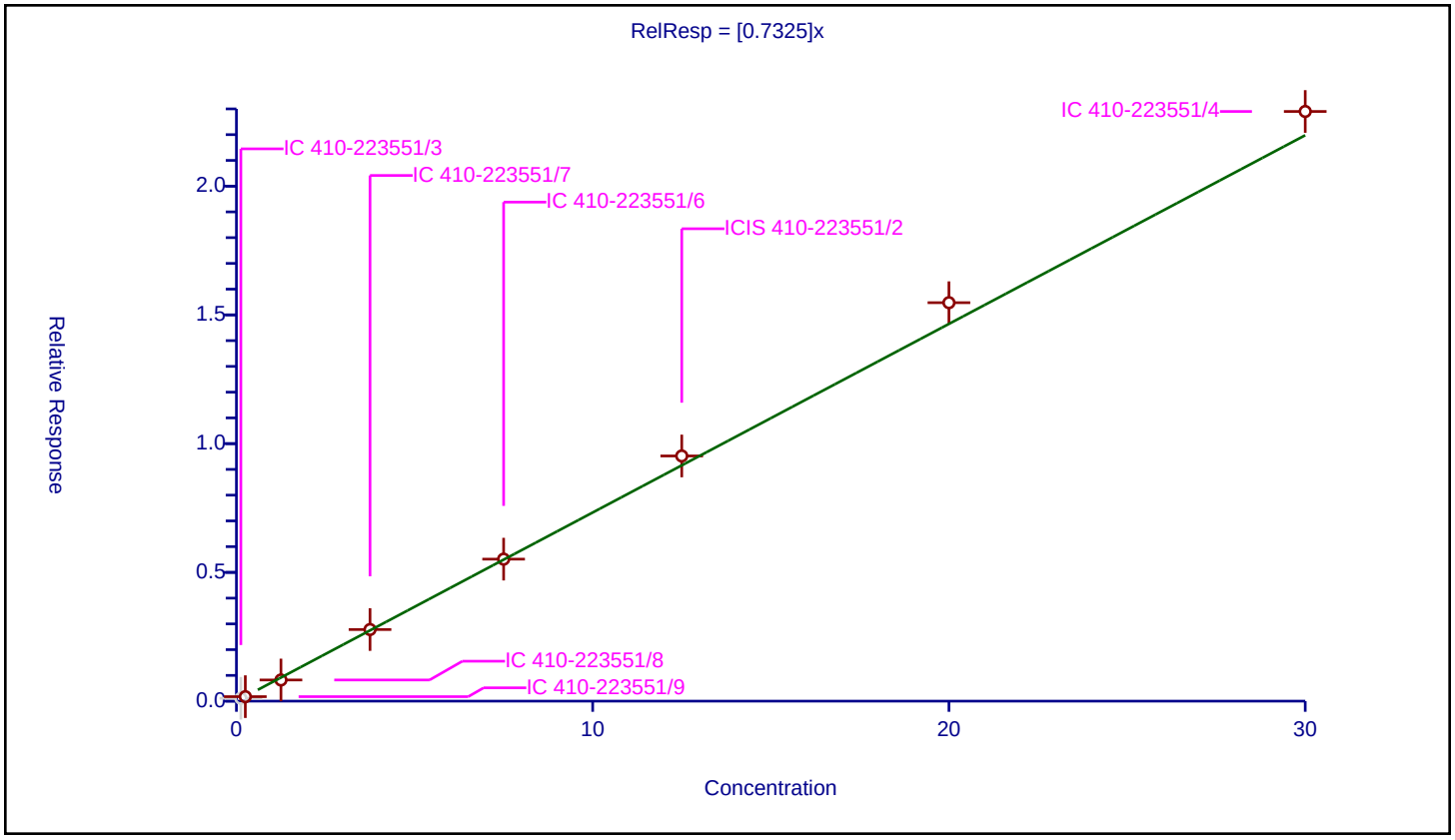
Curve Coefficients

Intercept:	0
Slope:	0.7325

Error Coefficients

Standard Error:	1670000
Relative Standard Error:	5.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.111397	5.0	650017.0	0.891177	N
2	IC 410-223551/9	0.25	0.173765	5.0	654505.0	0.69506	Y
3	IC 410-223551/8	1.25	0.821416	5.0	665613.0	0.657133	Y
4	IC 410-223551/7	3.75	2.780634	5.0	591180.0	0.741502	Y
5	IC 410-223551/6	7.5	5.5143	5.0	830333.0	0.73524	Y
6	ICIS 410-223551/2	12.5	9.521869	5.0	732174.0	0.76175	Y
7	IC 410-223551/5	20.0	15.473677	5.0	661980.0	0.773684	Y
8	IC 410-223551/4	30.0	22.899438	5.0	677145.0	0.763315	Y



Calibration / Di-n-octyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

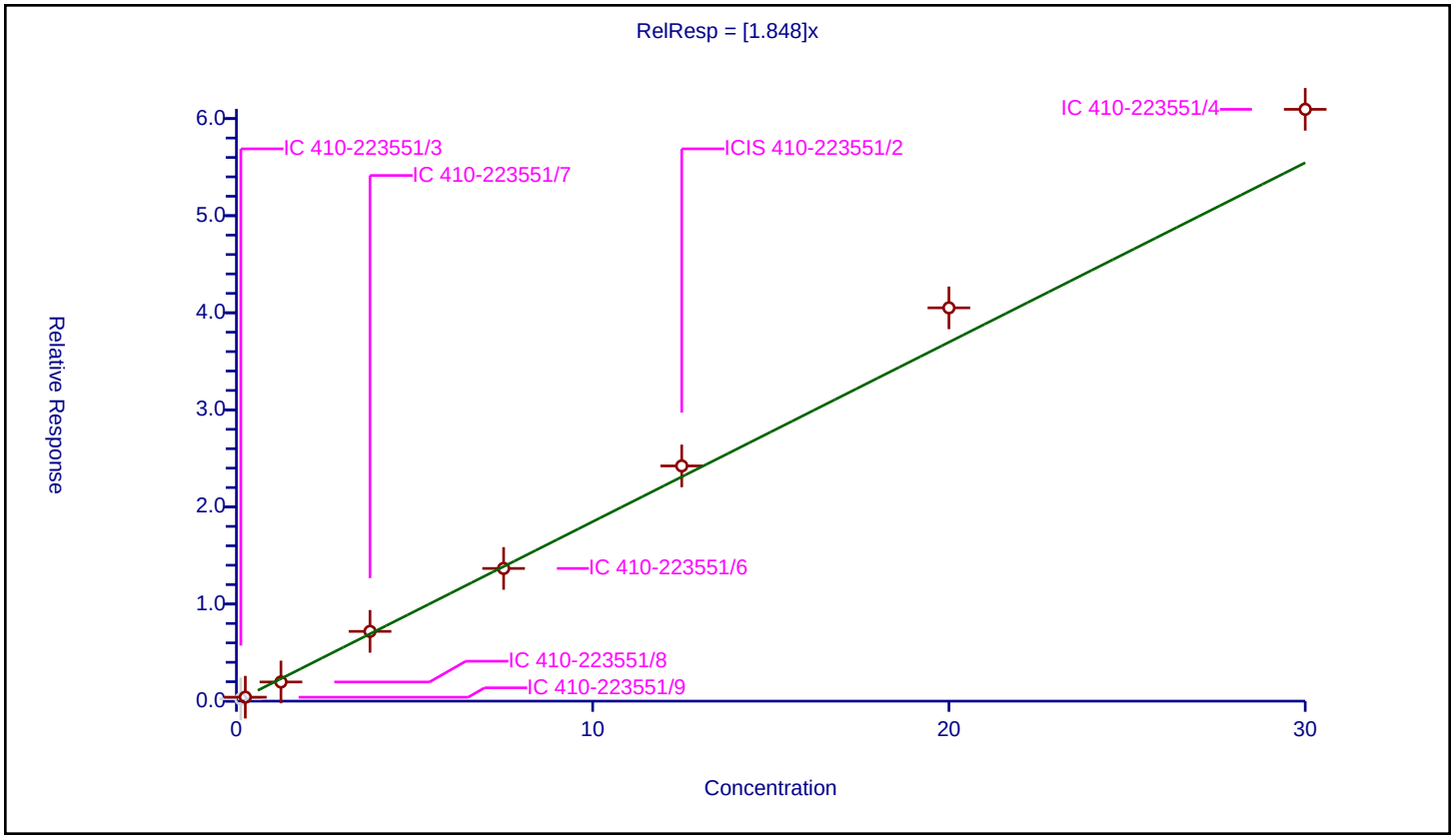
Curve Coefficients

Intercept:	0
Slope:	1.848

Error Coefficients

Standard Error:	3760000
Relative Standard Error:	9.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.235493	5.0	588488.0	1.883947	N
2	IC 410-223551/9	0.25	0.406215	5.0	588457.0	1.62486	Y
3	IC 410-223551/8	1.25	1.975085	5.0	589453.0	1.580068	Y
4	IC 410-223551/7	3.75	7.186989	5.0	550876.0	1.916531	Y
5	IC 410-223551/6	7.5	13.668941	5.0	693951.0	1.822525	Y
6	ICIS 410-223551/2	12.5	24.228112	5.0	619306.0	1.938249	Y
7	IC 410-223551/5	20.0	40.507837	5.0	575598.0	2.025392	Y
8	IC 410-223551/4	30.0	60.952976	5.0	578687.0	2.031766	Y



Calibration / 7,12-Dimethylbenz(a)anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

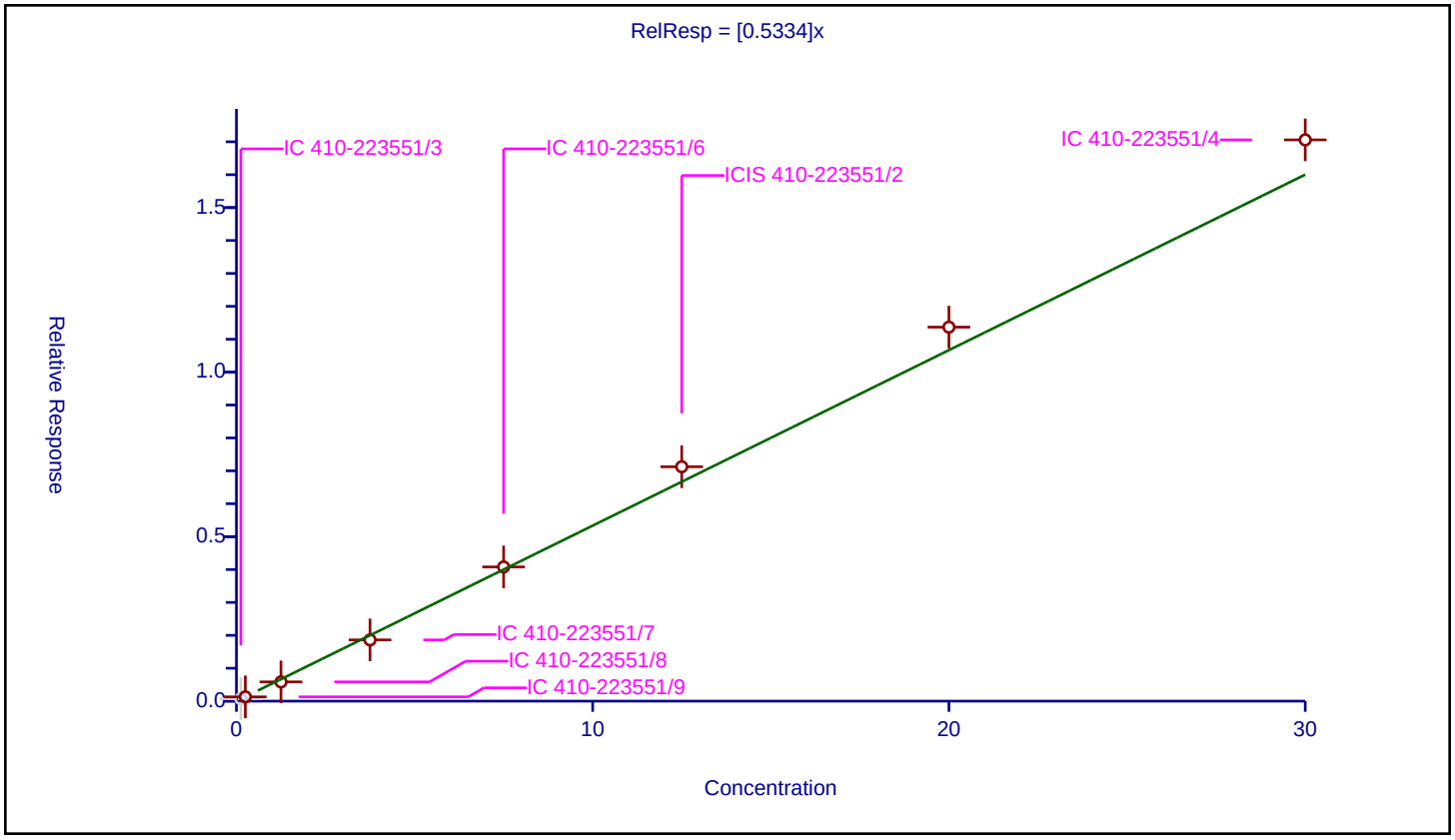
Curve Coefficients

Intercept:	0
Slope:	0.5334

Error Coefficients

Standard Error:	1060000
Relative Standard Error:	7.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.073086	5.0	588488.0	0.584685	N
2	IC 410-223551/9	0.25	0.129806	5.0	588457.0	0.519222	Y
3	IC 410-223551/8	1.25	0.584737	5.0	589453.0	0.46779	Y
4	IC 410-223551/7	3.75	1.860355	5.0	550876.0	0.496095	Y
5	IC 410-223551/6	7.5	4.078508	5.0	693951.0	0.543801	Y
6	ICIS 410-223551/2	12.5	7.123974	5.0	619306.0	0.569918	Y
7	IC 410-223551/5	20.0	11.367491	5.0	575598.0	0.568375	Y
8	IC 410-223551/4	30.0	17.058773	5.0	578687.0	0.568626	Y



Calibration / Benzo[b]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

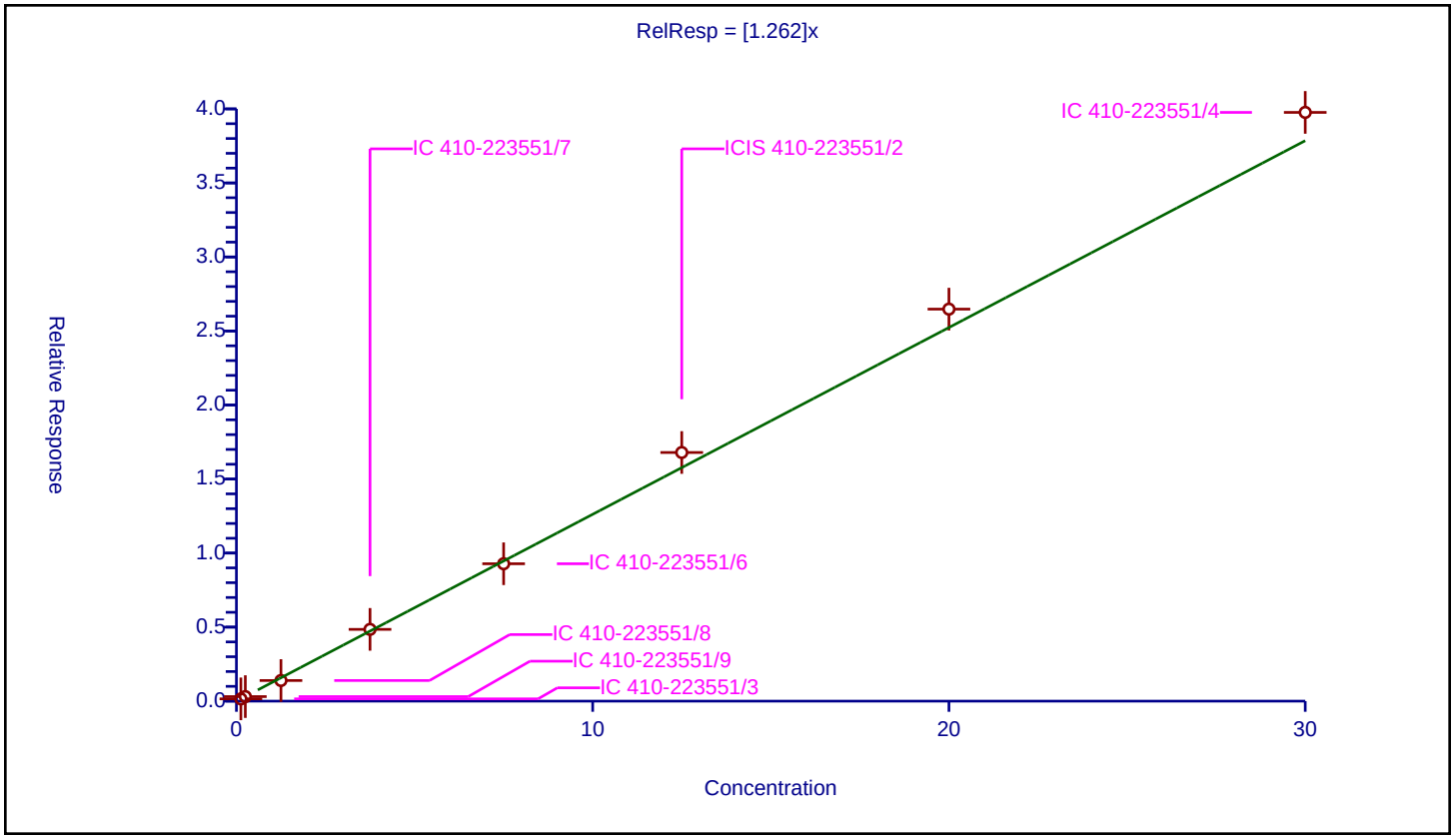
Curve Coefficients

Intercept:	0
Slope:	1.262

Error Coefficients

Standard Error:	2290000
Relative Standard Error:	6.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.153453	5.0	588488.0	1.227621	Y
2	IC 410-223551/9	0.25	0.307295	5.0	588457.0	1.229181	Y
3	IC 410-223551/8	1.25	1.39302	5.0	589453.0	1.114416	Y
4	IC 410-223551/7	3.75	4.847615	5.0	550876.0	1.292697	Y
5	IC 410-223551/6	7.5	9.27951	5.0	693951.0	1.237268	Y
6	ICIS 410-223551/2	12.5	16.792668	5.0	619306.0	1.343413	Y
7	IC 410-223551/5	20.0	26.476221	5.0	575598.0	1.323811	Y
8	IC 410-223551/4	30.0	39.763318	5.0	578687.0	1.325444	Y



Calibration / Benzo[k]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

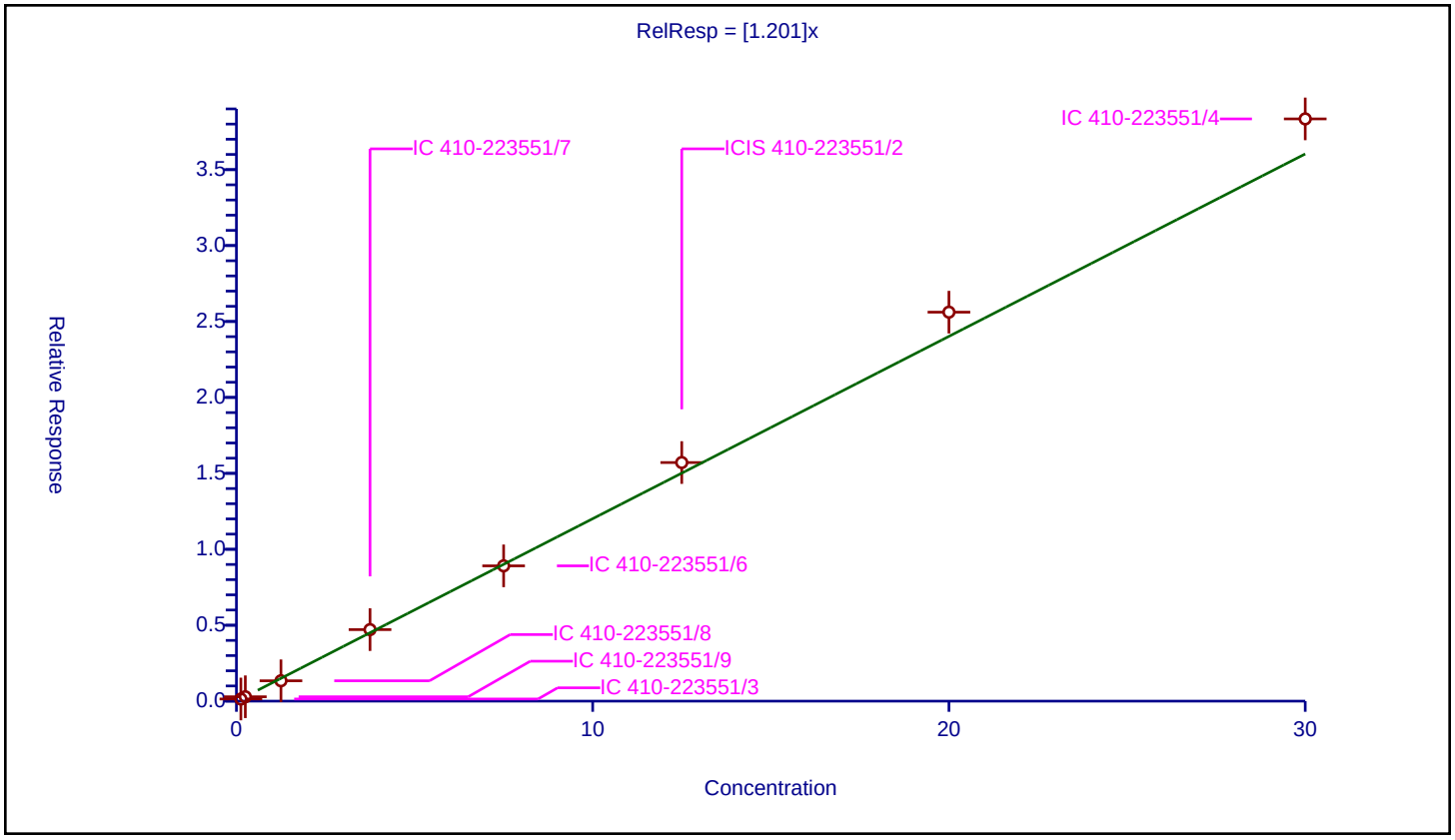
Curve Coefficients

Intercept:	0
Slope:	1.201

Error Coefficients

Standard Error:	2200000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.140632	5.0	588488.0	1.125053	Y
2	IC 410-223551/9	0.25	0.28799	5.0	588457.0	1.151962	Y
3	IC 410-223551/8	1.25	1.340709	5.0	589453.0	1.072567	Y
4	IC 410-223551/7	3.75	4.709218	5.0	550876.0	1.255791	Y
5	IC 410-223551/6	7.5	8.908403	5.0	693951.0	1.187787	Y
6	ICIS 410-223551/2	12.5	15.711748	5.0	619306.0	1.25694	Y
7	IC 410-223551/5	20.0	25.615204	5.0	575598.0	1.28076	Y
8	IC 410-223551/4	30.0	38.34032	5.0	578687.0	1.278011	Y



Calibration / Benzo[a]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

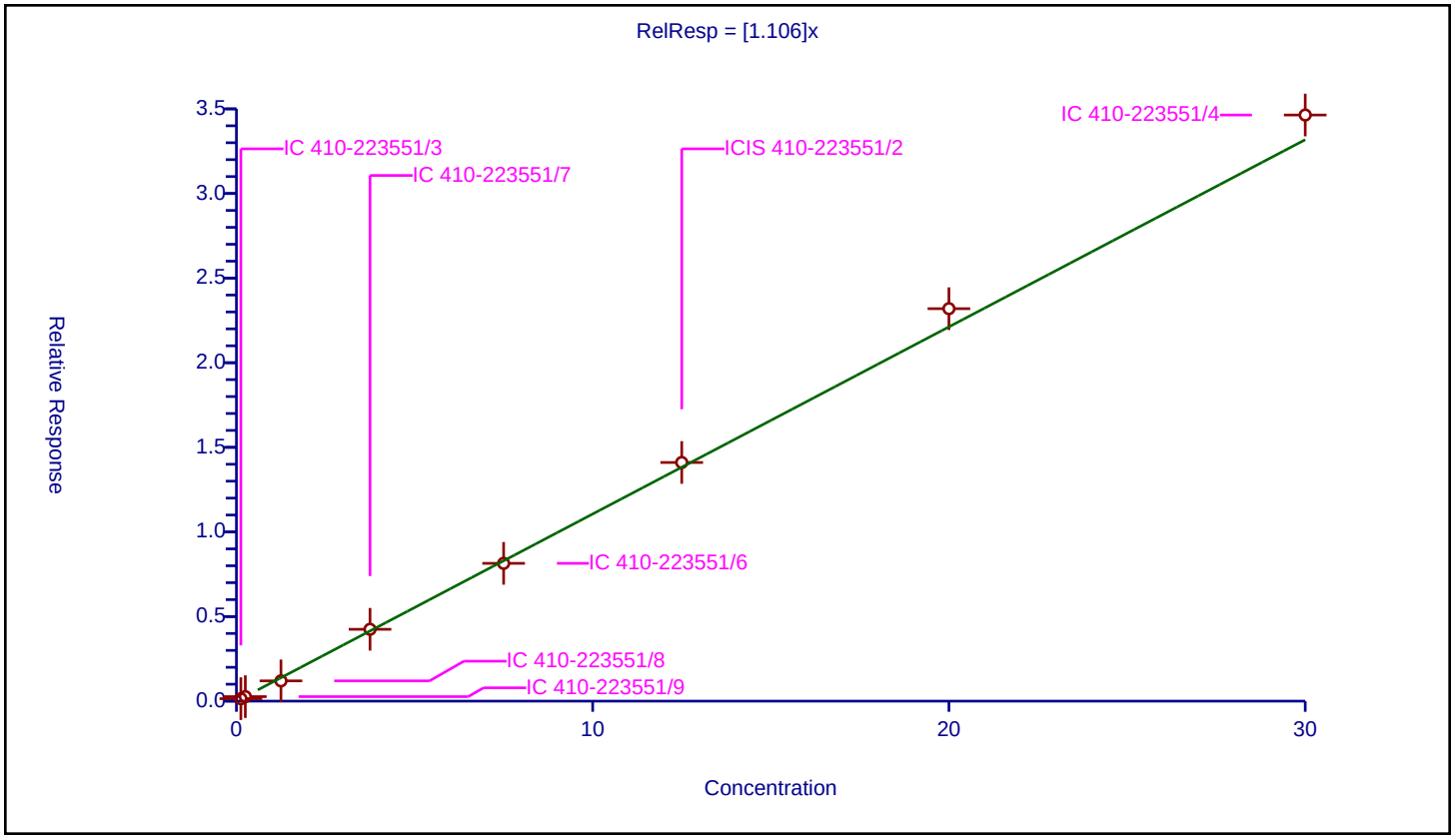
Curve Coefficients

Intercept:	0
Slope:	1.106

Error Coefficients

Standard Error:	1990000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.145092	5.0	588488.0	1.160737	Y
2	IC 410-223551/9	0.25	0.267275	5.0	588457.0	1.069101	Y
3	IC 410-223551/8	1.25	1.19694	5.0	589453.0	0.957552	Y
4	IC 410-223551/7	3.75	4.245756	5.0	550876.0	1.132202	Y
5	IC 410-223551/6	7.5	8.142556	5.0	693951.0	1.085674	Y
6	ICIS 410-223551/2	12.5	14.104344	5.0	619306.0	1.128348	Y
7	IC 410-223551/5	20.0	23.194061	5.0	575598.0	1.159703	Y
8	IC 410-223551/4	30.0	34.637758	5.0	578687.0	1.154592	Y



Calibration / 3-Methylcholanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

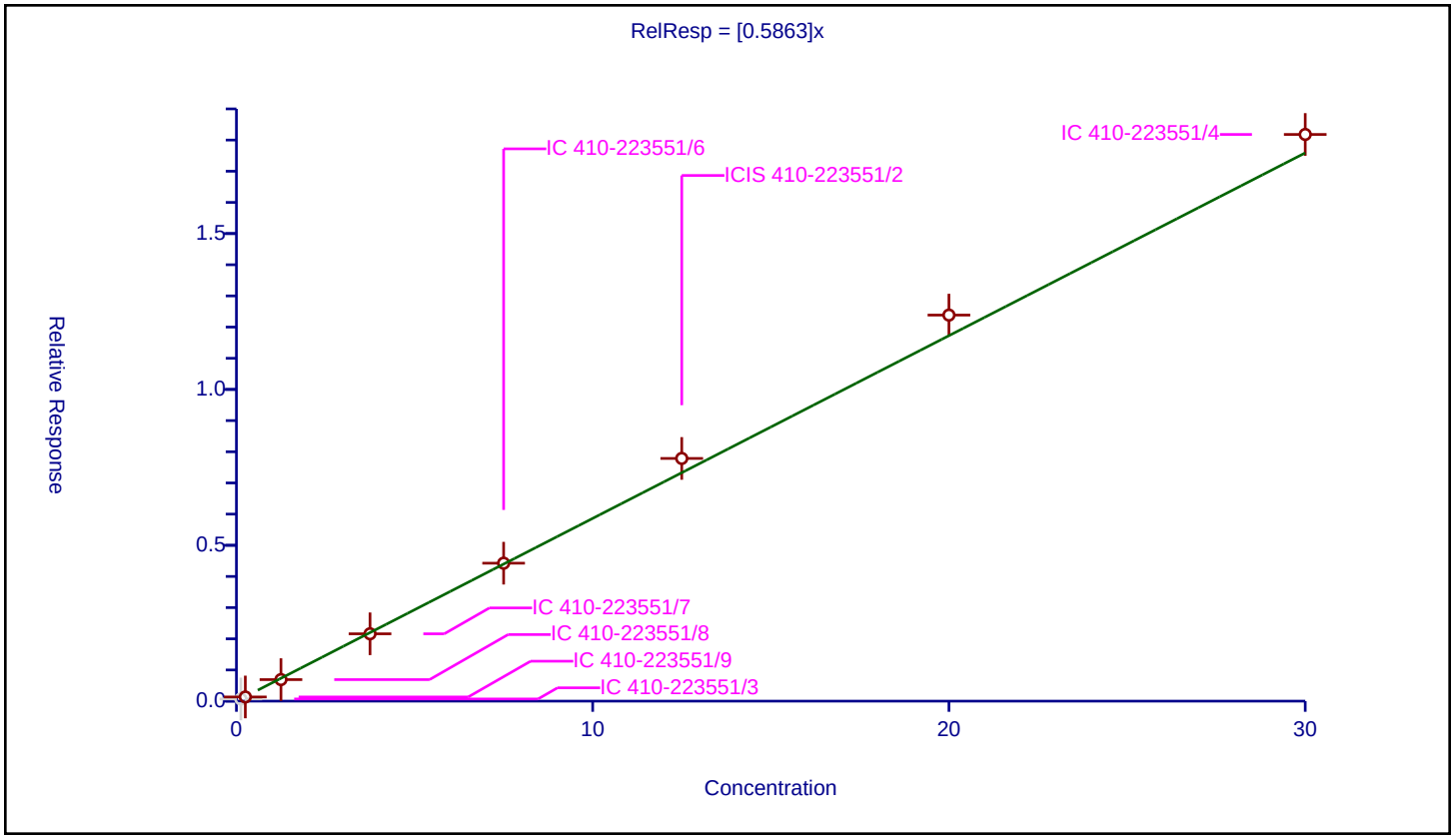
Curve Coefficients

Intercept:	0
Slope:	0.5863

Error Coefficients

Standard Error:	1140000
Relative Standard Error:	5.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.07001	5.0	588488.0	0.560079	N
2	IC 410-223551/9	0.25	0.134122	5.0	588457.0	0.536488	Y
3	IC 410-223551/8	1.25	0.691115	5.0	589453.0	0.552892	Y
4	IC 410-223551/7	3.75	2.160622	5.0	550876.0	0.576166	Y
5	IC 410-223551/6	7.5	4.425903	5.0	693951.0	0.59012	Y
6	ICIS 410-223551/2	12.5	7.786329	5.0	619306.0	0.622906	Y
7	IC 410-223551/5	20.0	12.384963	5.0	575598.0	0.619248	Y
8	IC 410-223551/4	30.0	18.179949	5.0	578687.0	0.605998	Y



Calibration / Dibenz[a,h]acridine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

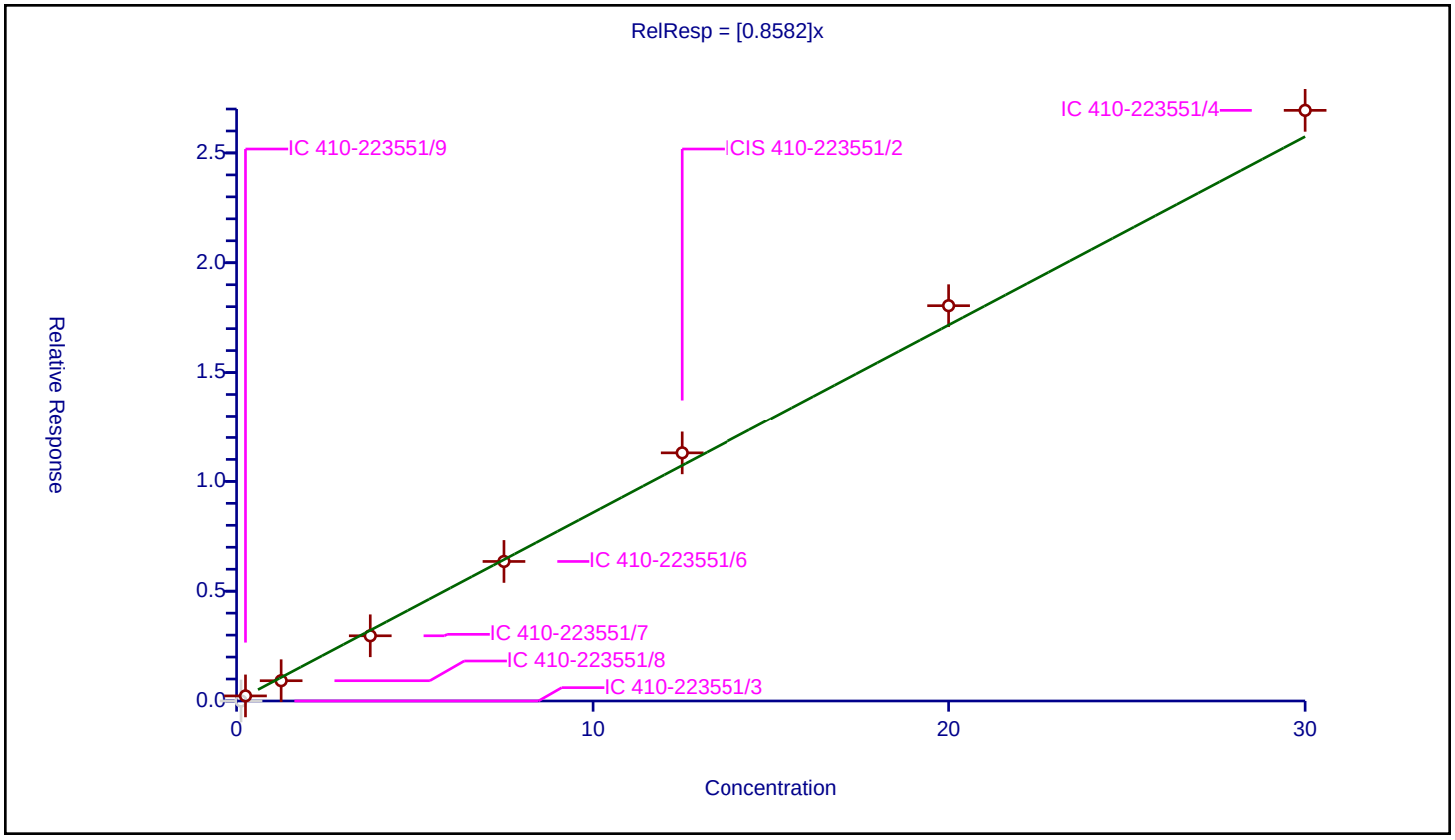
Curve Coefficients

Intercept:	0
Slope:	0.8582

Error Coefficients

Standard Error:	1680000
Relative Standard Error:	8.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.0	5.0	588488.0	0.0	N
2	IC 410-223551/9	0.25	0.231317	5.0	588457.0	0.925267	Y
3	IC 410-223551/8	1.25	0.923314	5.0	589453.0	0.738651	Y
4	IC 410-223551/7	3.75	2.969679	5.0	550876.0	0.791914	Y
5	IC 410-223551/6	7.5	6.353583	5.0	693951.0	0.847144	Y
6	ICIS 410-223551/2	12.5	11.298793	5.0	619306.0	0.903903	Y
7	IC 410-223551/5	20.0	18.044851	5.0	575598.0	0.902243	Y
8	IC 410-223551/4	30.0	26.938768	5.0	578687.0	0.897959	Y



Calibration / Dibenz[a,j]acridine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

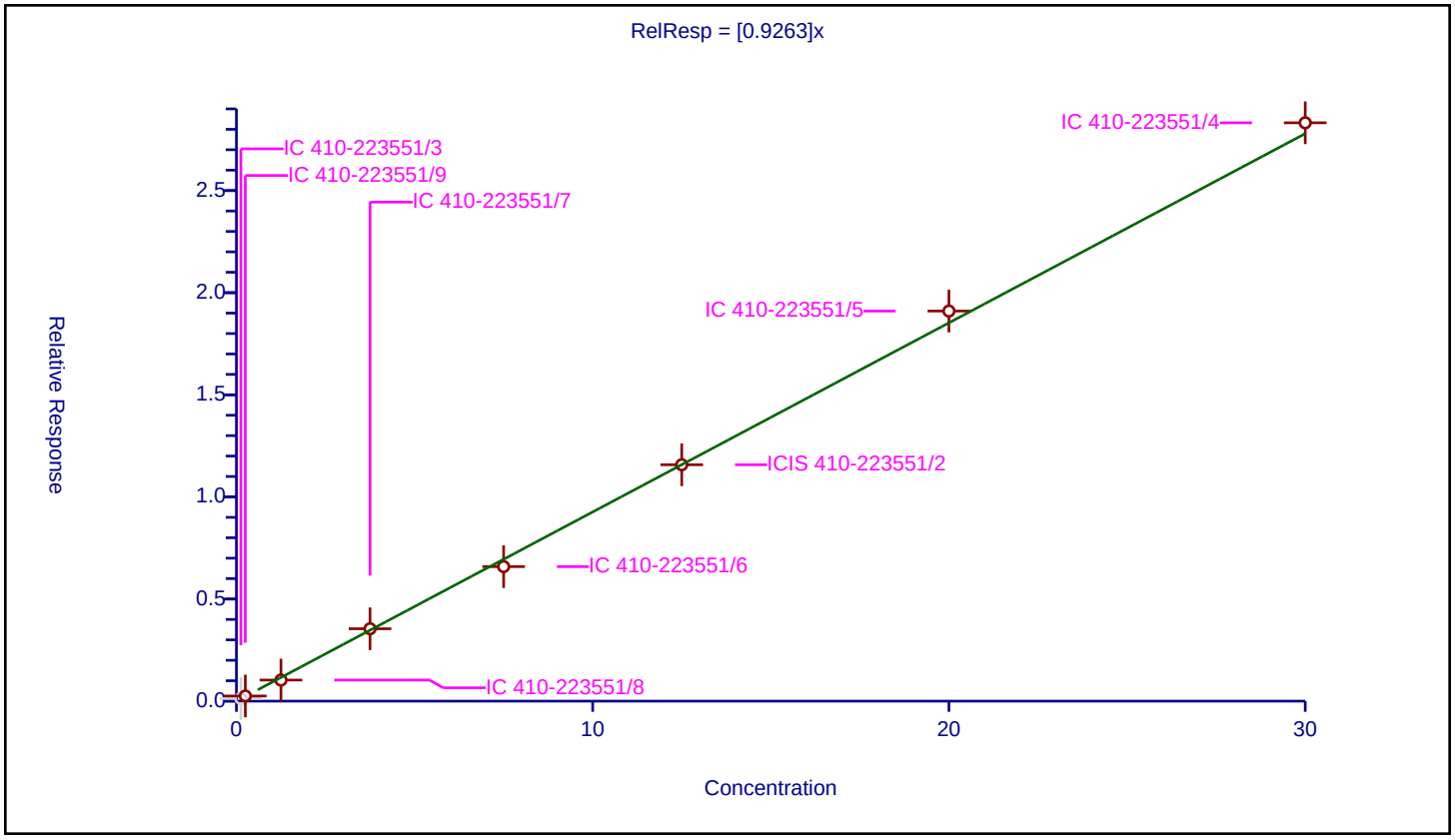
Curve Coefficients

Intercept:	0
Slope:	0.9263

Error Coefficients

Standard Error:	1760000
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.129145	5.0	588488.0	1.033156	N
2	IC 410-223551/9	0.25	0.252423	5.0	588457.0	1.009691	Y
3	IC 410-223551/8	1.25	1.032321	5.0	589453.0	0.825857	Y
4	IC 410-223551/7	3.75	3.543828	5.0	550876.0	0.945021	Y
5	IC 410-223551/6	7.5	6.586661	5.0	693951.0	0.878221	Y
6	ICIS 410-223551/2	12.5	11.575481	5.0	619306.0	0.926039	Y
7	IC 410-223551/5	20.0	19.101161	5.0	575598.0	0.955058	Y
8	IC 410-223551/4	30.0	28.319541	5.0	578687.0	0.943985	Y



Calibration / Indeno[1,2,3-cd]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

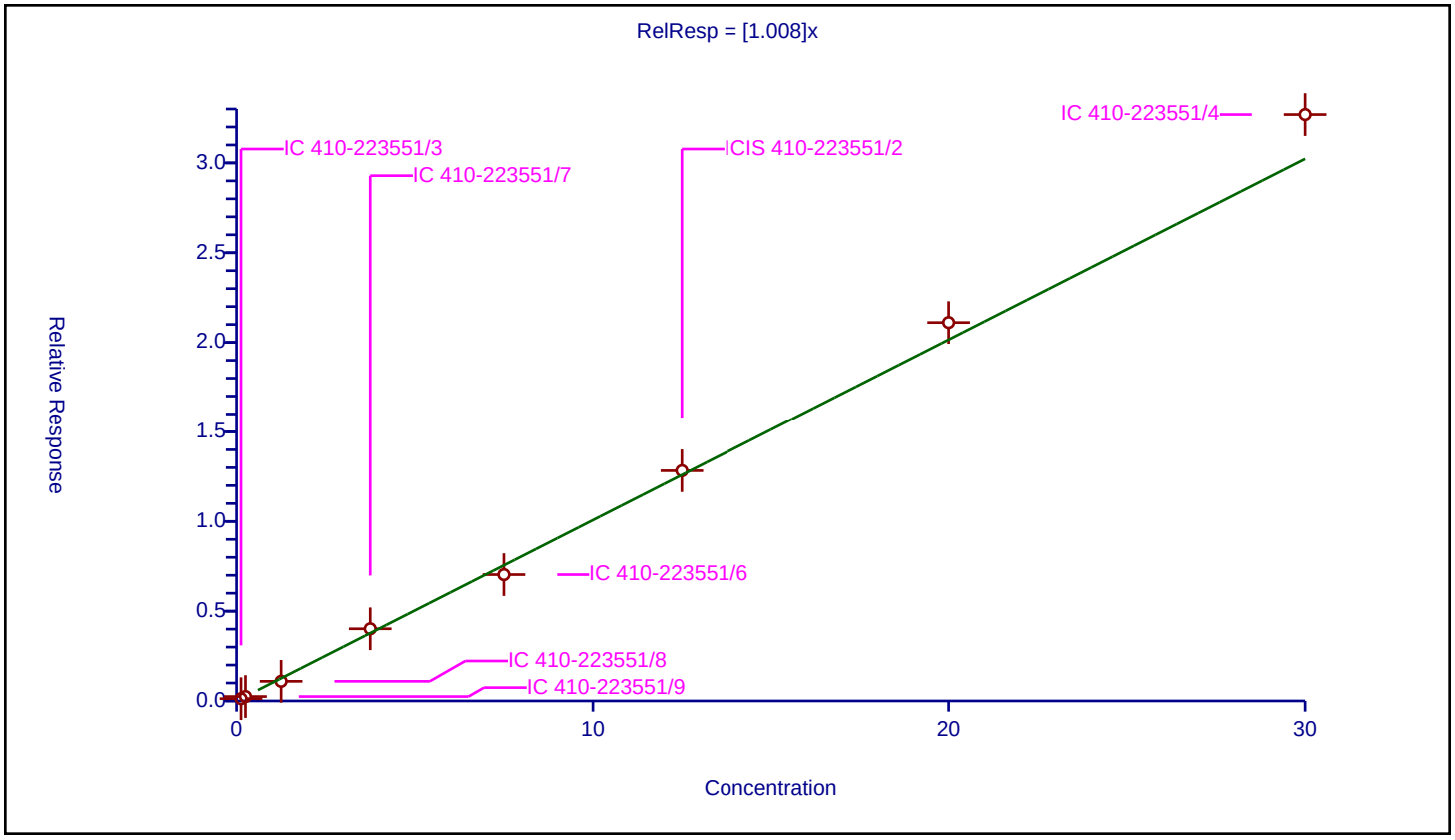
Curve Coefficients

Intercept:	0
Slope:	1.008

Error Coefficients

Standard Error:	1850000
Relative Standard Error:	7.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.12759	5.0	588488.0	1.020717	Y
2	IC 410-223551/9	0.25	0.245948	5.0	588457.0	0.983793	Y
3	IC 410-223551/8	1.25	1.0927	5.0	589453.0	0.87416	Y
4	IC 410-223551/7	3.75	4.01928	5.0	550876.0	1.071808	Y
5	IC 410-223551/6	7.5	7.038213	5.0	693951.0	0.938428	Y
6	ICIS 410-223551/2	12.5	12.831807	5.0	619306.0	1.026545	Y
7	IC 410-223551/5	20.0	21.109021	5.0	575598.0	1.055451	Y
8	IC 410-223551/4	30.0	32.691913	5.0	578687.0	1.08973	Y



Calibration / Dibenz(a,h)anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

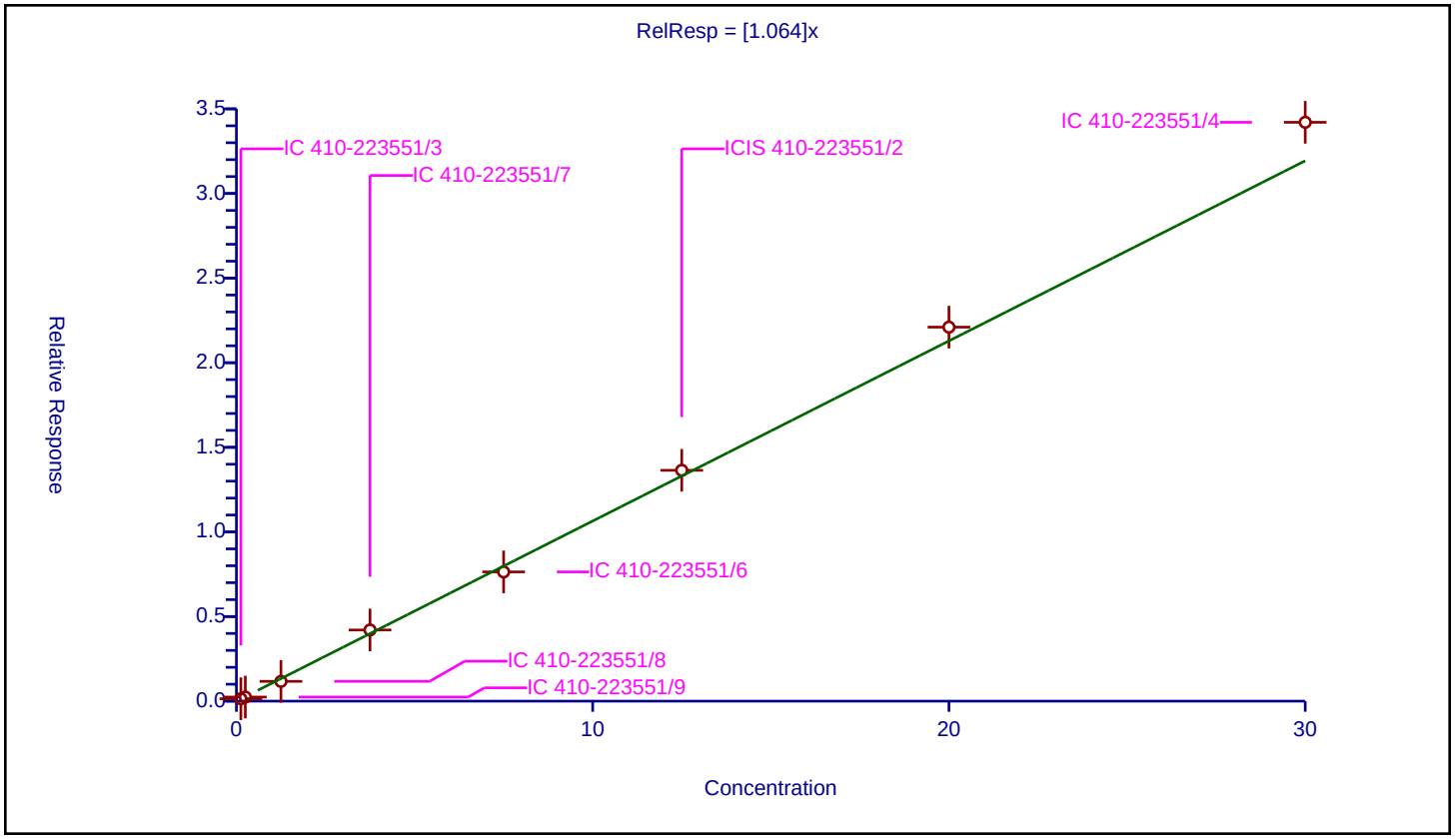
Curve Coefficients

Intercept:	0
Slope:	1.064

Error Coefficients

Standard Error:	1940000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.142271	5.0	588488.0	1.138171	Y
2	IC 410-223551/9	0.25	0.241445	5.0	588457.0	0.96578	Y
3	IC 410-223551/8	1.25	1.168634	5.0	589453.0	0.934907	Y
4	IC 410-223551/7	3.75	4.205647	5.0	550876.0	1.121506	Y
5	IC 410-223551/6	7.5	7.638255	5.0	693951.0	1.018434	Y
6	ICIS 410-223551/2	12.5	13.641197	5.0	619306.0	1.091296	Y
7	IC 410-223551/5	20.0	22.102457	5.0	575598.0	1.105123	Y
8	IC 410-223551/4	30.0	34.206981	5.0	578687.0	1.140233	Y



Calibration / Benzo[g,h,i]perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

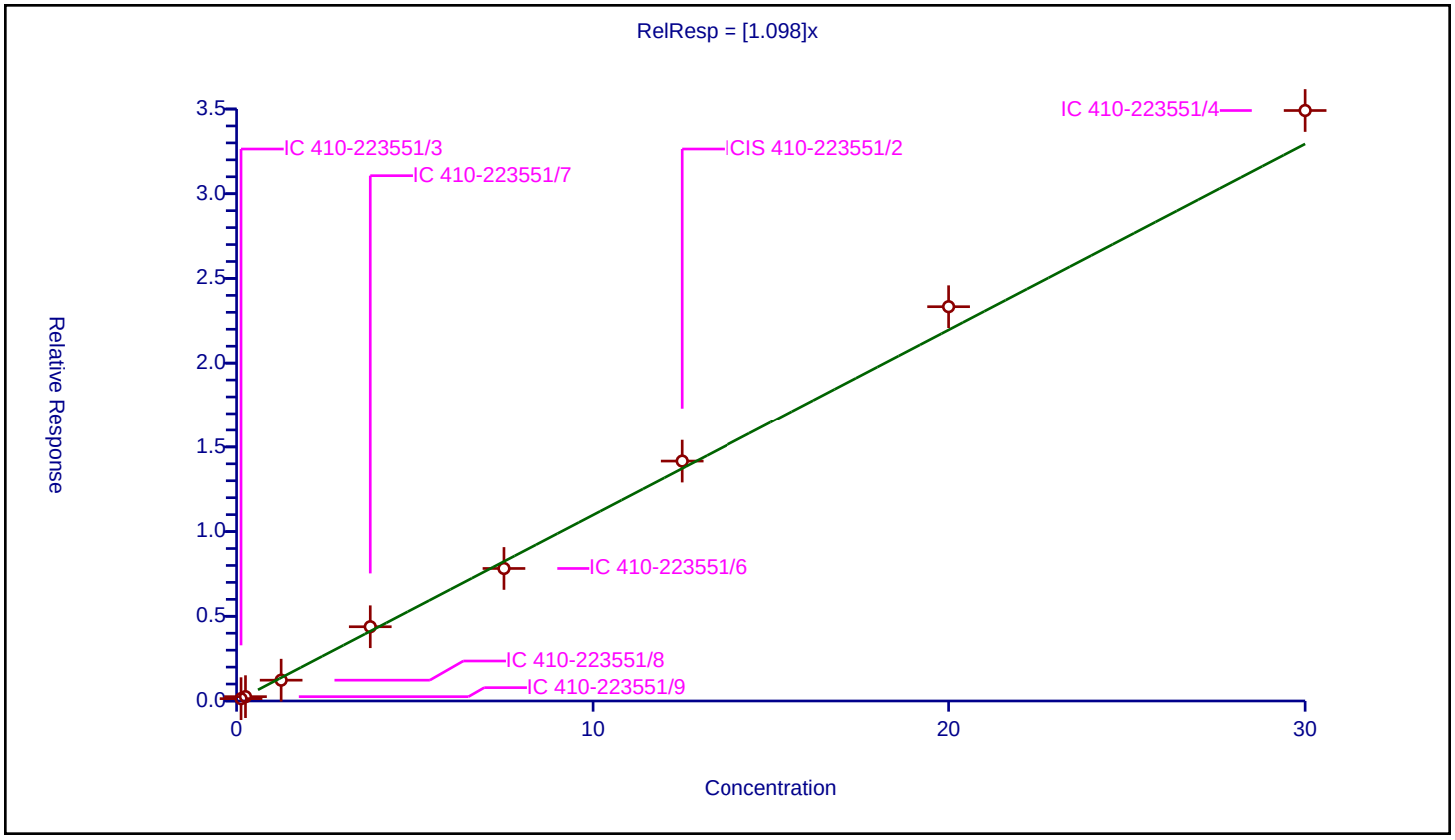
Curve Coefficients

Intercept:	0
Slope:	1.098

Error Coefficients

Standard Error:	2000000
Relative Standard Error:	6.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-223551/3	0.125	0.137743	5.0	588488.0	1.101943	Y
2	IC 410-223551/9	0.25	0.25589	5.0	588457.0	1.023558	Y
3	IC 410-223551/8	1.25	1.229165	5.0	589453.0	0.983332	Y
4	IC 410-223551/7	3.75	4.383201	5.0	550876.0	1.168853	Y
5	IC 410-223551/6	7.5	7.821172	5.0	693951.0	1.042823	Y
6	ICIS 410-223551/2	12.5	14.161327	5.0	619306.0	1.132906	Y
7	IC 410-223551/5	20.0	23.332395	5.0	575598.0	1.16662	Y
8	IC 410-223551/4	30.0	34.912371	5.0	578687.0	1.163746	Y



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Lab Sample ID: ICV 410-223551/12 Calibration Date: 02/14/2022 15:45

Instrument ID: HP23264 Calib Start Date: 10/12/2021 17:35

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 10/12/2021 17:35

Lab File ID: JB1411.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Aramite Peak 1	Ave	0.0584				1.25		30.0
Aramite Peak 2	Ave	0.0555				1.25		30.0
Aramite Peak 3	Ave	0.1560				5.00		30.0
Aramite Peak 4	Ave	0.2116				5.00		30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1411.D
Lims ID: ICV FULL
Client ID:
Sample Type: ICV
Inject. Date: 14-Feb-2022 15:45:30 ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV FULL
Misc. Info.: 410-0050350-012
Operator ID: apb10206 Instrument ID: HP23264
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\MSSemi_HP23264.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Feb-2022 08:32:57 Calib Date: 14-Feb-2022 14:41:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1408.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: bauera Date: 15-Feb-2022 08:29:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.864	1.864	0.000	95	335425	12.5	11.9	
2 N-Nitrosodimethylamine	74	2.092	2.091	0.001	95	609055	12.5	11.6	
3 Pyridine	79	2.132	2.132	0.000	91	1837527	25.0	23.4	
5 2-Picoline	93	2.746	2.745	0.001	93	1011131	12.5	13.5	
6 N-Nitrosomethylethylamine	88	2.833	2.833	0.000	97	443000	12.5	13.7	
7 Methyl methanesulfonate	80	3.102	3.102	0.000	86	292087	6.25	6.22	
11 N-Nitrosodiethylamine	102	3.487	3.487	0.000	89	410222	12.5	13.2	
12 Ethyl methanesulfonate	109	3.767	3.773	-0.006	96	216175	6.25	5.93	
16 Phenol	94	4.159	4.164	-0.005	98	1135188	12.5	12.3	
17 Aniline	93	4.205	4.205	0.000	95	1402791	12.5	12.8	
18 Bis(2-chloroethyl)ether	93	4.264	4.264	0.000	89	888226	12.5	12.4	
19 2-Chlorophenol	128	4.316	4.322	-0.006	91	722332	12.5	12.3	
21 1,3-Dichlorobenzene	146	4.468	4.474	-0.006	95	767074	12.5	12.7	
* 22 1,4-Dichlorobenzene-d4	152	4.521	4.526	-0.005	96	204340	5.00	5.00	
23 1,4-Dichlorobenzene	146	4.538	4.544	-0.006	91	780355	12.5	12.4	
26 Benzyl alcohol	108	4.643	4.649	-0.006	88	535195	12.5	12.7	
27 1,2-Dichlorobenzene	146	4.684	4.684	0.000	93	746080	12.5	12.4	
29 2-Methylphenol	108	4.748	4.748	0.000	97	751456	12.5	12.3	
30 2,2'-oxybis[1-chloropropane]	45	4.783	4.783	0.000	93	1567612	12.5	12.4	
31 N-Nitrosopyrrolidine	100	4.877	4.883	-0.005	85	483738	12.5	13.5	
34 4-Methylphenol	108	4.894	4.894	0.000	97	788596	12.5	12.1	
32 Acetophenone	105	4.906	4.906	0.000	89	1229274	12.5	12.1	
33 N-Nitrosodi-n-propylamine	70	4.900	4.906	-0.006	80	781687	12.5	11.9	
35 N-Nitrosomorpholine	56	4.918	4.923	-0.005	89	716021	12.5	13.6	
36 2-Toluidine	106	4.935	4.941	-0.006	95	1390572	12.5	14.1	
37 Hexachloroethane	117	5.011	5.011	0.000	97	354284	12.5	11.7	
40 Nitrobenzene	77	5.064	5.069	-0.005	88	1031255	12.5	12.1	
41 N-Nitrosopiperidine	114	5.210	5.215	-0.005	81	400190	12.5	13.0	
42 Isophorone	82	5.297	5.297	0.000	98	1905402	12.5	12.2	
43 2-Nitrophenol	139	5.373	5.373	0.000	92	375042	12.5	12.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 2,4-Dimethylphenol	107	5.408	5.408	0.000	99	825430	12.5	12.0	
46 o,o',o''-Triethylphosphorothioat	198	5.478	5.478	0.000	95	323449	12.5	12.9	
47 Bis(2-chloroethoxy)methane	93	5.502	5.507	-0.005	94	1154746	12.5	12.5	
49 2,4-Dichlorophenol	162	5.601	5.601	0.000	96	591303	12.5	12.3	
50 1,2,4-Trichlorobenzene	180	5.683	5.688	-0.005	92	648189	12.5	12.8	
* 52 Naphthalene-d8	136	5.741	5.741	0.000	99	801614	5.00	5.00	
53 Naphthalene	128	5.758	5.764	-0.006	98	2016224	12.5	12.3	
56 4-Chloroaniline	127	5.805	5.811	-0.006	94	929653	12.5	12.8	
57 2,6-Dichlorophenol	162	5.817	5.817	0.000	92	585774	12.5	12.8	
58 Hexachloropropene	213	5.846	5.846	0.000	97	247396	6.25	6.59	
59 Hexachlorobutadiene	225	5.881	5.881	0.000	97	374071	12.5	13.0	
61 Quinoline	129	6.074	6.080	-0.006	94	1496609	12.5	14.1	
63 N-Nitrosodi-n-butylamine	84	6.132	6.132	0.000	95	695630	12.5	10.1	
65 4-Chloro-3-methylphenol	107	6.266	6.272	-0.006	94	720416	12.5	12.3	
66 Safrole, Total	162	6.337	6.342	-0.005	82	528384	12.5	13.0	
67 2-Methylnaphthalene	142	6.418	6.424	-0.006	89	1316614	12.5	12.1	
69 1-Methylnaphthalene	142	6.518	6.517	0.001	92	1245071	12.5	12.2	
71 Hexachlorocyclopentadiene	237		6.576				ND	ND	U
70 1,2,4,5-Tetrachlorobenzene	216	6.576	6.582	-0.006	98	627833	12.5	12.3	
72 Isosafrole Peak 1	162	6.617	6.623	-0.006	88	39839	0.7500	0.8094	
79 2,4,6-Trichlorophenol	196	6.687	6.693	-0.006	94	417539	12.5	12.1	
80 2,4,5-Trichlorophenol	196	6.716	6.722	-0.006	92	479406	12.5	12.4	
82 Isosafrole Peak 2	162	6.833	6.833	0.000	85	275460	5.50	5.26	
83 1,1'-Biphenyl	154	6.868	6.868	0.000	97	1622064	12.5	12.0	
84 2-Chloronaphthalene	162	6.885	6.885	-0.006	96	1266366	12.5	12.3	M
85 1-Chloronaphthalene	162	6.903	6.903	-0.006	97	615823	6.25	6.10	M
86 Phenyl ether	170	6.967	6.973	-0.006	90	903028	12.5	12.8	
87 2-Nitroaniline	138	6.979	6.985	-0.006	78	473283	12.5	12.2	
88 1,4-Naphthoquinone	158	7.055	7.055	0.000	79	282037	6.25	6.27	
89 1,4-Dinitrobenzene	168	7.113	7.113	0.000	85	201961	12.5	12.2	
90 Dimethyl phthalate	163	7.160	7.160	0.000	96	1527448	12.5	12.0	
91 1,3-Dinitrobenzene	168	7.183	7.183	0.000	81	230107	12.5	12.0	
92 2,6-Dinitrotoluene	165	7.212	7.218	-0.006	86	331723	12.5	11.7	
28 Indene	115	7.277	7.272	0.005	40	1797	NC	NC	
93 Acenaphthylene	152	7.277	7.282	-0.005	99	2087244	12.5	12.6	
95 3-Nitroaniline	138	7.370	7.370	0.000	88	409197	12.5	12.3	
* 96 Acenaphthene-d10	164	7.411	7.417	-0.006	96	432682	5.00	5.00	
97 Acenaphthene	153	7.446	7.446	0.000	98	1340383	12.5	12.4	
98 2,4-Dinitrophenol	184	7.469	7.469	0.000	79	434444	25.0	25.1	
100 4-Nitrophenol	109	7.528	7.528	0.000	91	600468	25.0	25.5	M
99 Pentachlorobenzene	250	7.569	7.568	0.001	96	286387	6.25	6.35	
102 2,4-Dinitrotoluene	165	7.592	7.598	-0.006	88	457442	12.5	12.1	
101 Dibenzofuran	168	7.609	7.609	0.000	96	1776100	12.5	12.2	
104 1-Naphthylamine	143	7.680	7.685	-0.005	97	1374420	12.5	13.8	
105 2,3,4,6-Tetrachlorophenol	232	7.720	7.726	-0.006	77	365584	12.5	11.9	
106 2-Naphthylamine	143	7.755	7.761	-0.006	95	1505515	12.5	13.3	
107 Diethyl phthalate	149	7.831	7.837	-0.006	96	1664082	12.5	12.3	
109 Thionazin	107	7.907	7.913	-0.006	75	294009	12.5	11.6	
108 Fluorene	166	7.936	7.936	0.000	92	1383762	12.5	11.7	
110 4-Chlorophenyl phenyl ether	204	7.936	7.942	-0.006	91	648389	12.5	12.0	
111 N-Nitro-o-toluidine	152	7.942	7.948	-0.006	79	448505	12.5	13.0	
112 4-Nitroaniline	138	7.948	7.954	-0.006	78	412910	12.5	12.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
113 4,6-Dinitro-2-methylphenol	198	7.977	7.983	-0.006	73	530924	25.0	28.1	
114 N-Nitrosodiphenylamine	169	8.047	8.053	-0.006	66	1023778	10.6	10.7	
115 1,2-Diphenylhydrazine	77	8.088	8.088	0.000	42	2177325	12.5	12.7	
117 Sulfotepp	97	8.205	8.211	-0.006	76	383181	12.5	11.7	
118 1,3,5-Trinitrobenzene	213	8.293	8.298	-0.005	80	138201	12.5	14.2	
120 cis-Diallate	86	8.328	8.328	0.000	93	662378	9.38	10.4	
119 Phorate	75	8.333	8.339	-0.006	94	1416415	12.5	13.0	
121 Phenacetin	108	8.345	8.345	0.000	87	1009091	12.5	14.7	
122 4-Bromophenyl phenyl ether	248	8.404	8.409	-0.005	76	395232	12.5	13.0	
123 trans-Diallate	86	8.409	8.415	-0.006	95	210256	3.13	3.11	
124 Hexachlorobenzene	284	8.456	8.456	0.000	91	411126	12.5	12.4	
48 Benzoic acid	105	8.491	8.480	0.011	28	23933	NC	NC	
125 Dimethoate	87	8.491	8.497	-0.006	97	863881	12.5	12.9	
127 Pentachlorophenol	266	8.643	8.643	0.000	90	525957	25.0	24.9	
129 4-Aminobiphenyl	169	8.649	8.649	0.000	92	1743756	12.5	13.7	
128 Pentachloronitrobenzene	237	8.655	8.655	0.000	84	246306	12.5	13.9	
130 Pronamide	173	8.707	8.713	-0.006	90	766558	12.5	14.1	
133 Dinoseb	211	8.818	8.824	-0.006	93	189554	6.25	6.80	
* 131 Phenanthrene-d10	188	8.824	8.830	-0.006	97	777700	5.00	5.00	
134 Disulfoton	88	8.836	8.836	0.000	97	1210624	12.5	12.0	
132 Phenanthrene	178	8.847	8.853	-0.006	98	2129036	12.5	12.2	
135 Anthracene	178	8.900	8.900	0.000	99	2181642	12.5	12.9	
136 Carbazole	167	9.052	9.052	0.000	97	1984116	12.5	12.5	
137 Methyl parathion	109	9.186	9.192	-0.006	90	648993	12.5	13.2	
138 Di-n-butyl phthalate	149	9.396	9.396	0.000	100	2799570	12.5	12.9	
139 Ethyl Parathion	109	9.560	9.565	-0.005	81	406671	12.5	13.2	
140 4-Nitroquinoline-1-oxide	190	9.583	9.589	-0.006	92	253534	12.5	14.1	
S 68 Diallate	86				0		12.5	13.5	
142 Octachlorostyrene	308	9.799	9.805	-0.006	90	190544	12.5	13.1	
143 Isodrin	193	9.840	9.846	-0.006	90	143892	6.25	6.32	
144 Fluoranthene	202	9.980	9.986	-0.006	99	2259736	12.5	12.6	
145 Benzidine	184	10.114	10.120	-0.006	99	1416346	12.5	10.9	
* 146 Pyrene-d10 (IS)	212	10.179	10.184	-0.005	97	751713	5.00	5.00	
147 Pyrene	202	10.196	10.202	-0.006	96	2335785	12.5	12.1	
149 p-Dimethylamino azobenzene	225	10.506	10.506	0.000	91	382386	12.5	14.1	
150 Chlorobenzilate	139	10.552	10.558	-0.006	82	460311	6.25	6.29	
152 3,3'-Dimethylbenzidine	212	10.862	10.862	0.000	99	1401470	12.5	15.3	
153 Butyl benzyl phthalate	149	10.885	10.885	0.000	95	1206041	12.5	12.4	
155 2-Acetylaminofluorene	181	11.136	11.136	0.000	93	967313	12.5	13.9	
S 94 Isosafrole	162				0		6.25	6.07	
157 3,3'-Dichlorobenzidine	252	11.481	11.481	0.000	78	734159	12.5	11.5	
158 4,4'-Methylene bis(2-chloroanil	231	11.487	11.492	-0.005	91	410920	12.5	13.2	
156 Benzo[a]anthracene	228	11.498	11.504	-0.006	100	1955869	12.5	12.5	
159 Chrysene	228	11.545	11.545	0.000	97	1801581	12.5	12.2	
160 Bis(2-ethylhexyl) phthalate	149	11.574	11.580	-0.006	96	1694072	12.5	12.2	
S 103 Aramite, Total	185		11.583				12.5	ND	7
161 6-Methylchrysene	242	12.123	12.129	-0.006	98	1339065	12.5	12.2	
162 Di-n-octyl phthalate	149	12.462	12.462	0.000	99	2947231	12.5	12.7	
164 Benzo[b]fluoranthene	252	12.935	12.935	0.000	97	1945628	12.5	12.2	
163 7,12-Dimethylbenz(a)anthracene	256	12.935	12.935	0.000	89	441693	6.25	6.58	
165 Benzo[k]fluoranthene	252	12.976	12.975	0.001	99	1919550	12.5	12.7	
166 Benzo[a]pyrene	252	13.402	13.402	0.000	79	1859946	12.5	13.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 167 Perylene-d12	264	13.484	13.483	0.001	97	629687	5.00	5.00	
168 3-Methylcholanthrene	268	13.927	13.933	-0.006	91	939741	12.5	12.7	
169 Dibenz[a,h]acridine	279	14.768	14.774	-0.006	92	1610461	12.5	14.9	
170 Dibenz[a,j]acridine	279	14.856	14.861	-0.005	95	1424677	12.5	12.2	
171 Indeno[1,2,3-cd]pyrene	276	15.142	15.148	-0.006	97	1618711	12.5	12.8	
200 Aramite Peak 1	185		15.156				ND	ND	
192 Aramite Peak 2	185		15.185				ND	ND	
172 Dibenz(a,h)anthracene	278	15.194	15.200	-0.006	95	1662100	12.5	12.4	
180 Aramite Peak 4	185		15.432				ND	ND	
185 Aramite Peak 3	185		15.432				ND	ND	
173 Benzo[g,h,i]perylene	276	15.609	15.615	-0.006	96	1705570	12.5	12.3	
151 Famphur	218	15.609	15.702	-0.093	50	515	NC	NC	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected

Reagents:

MSS_RV8270ICV_00014 Amount Added: 1.00 Units: mL

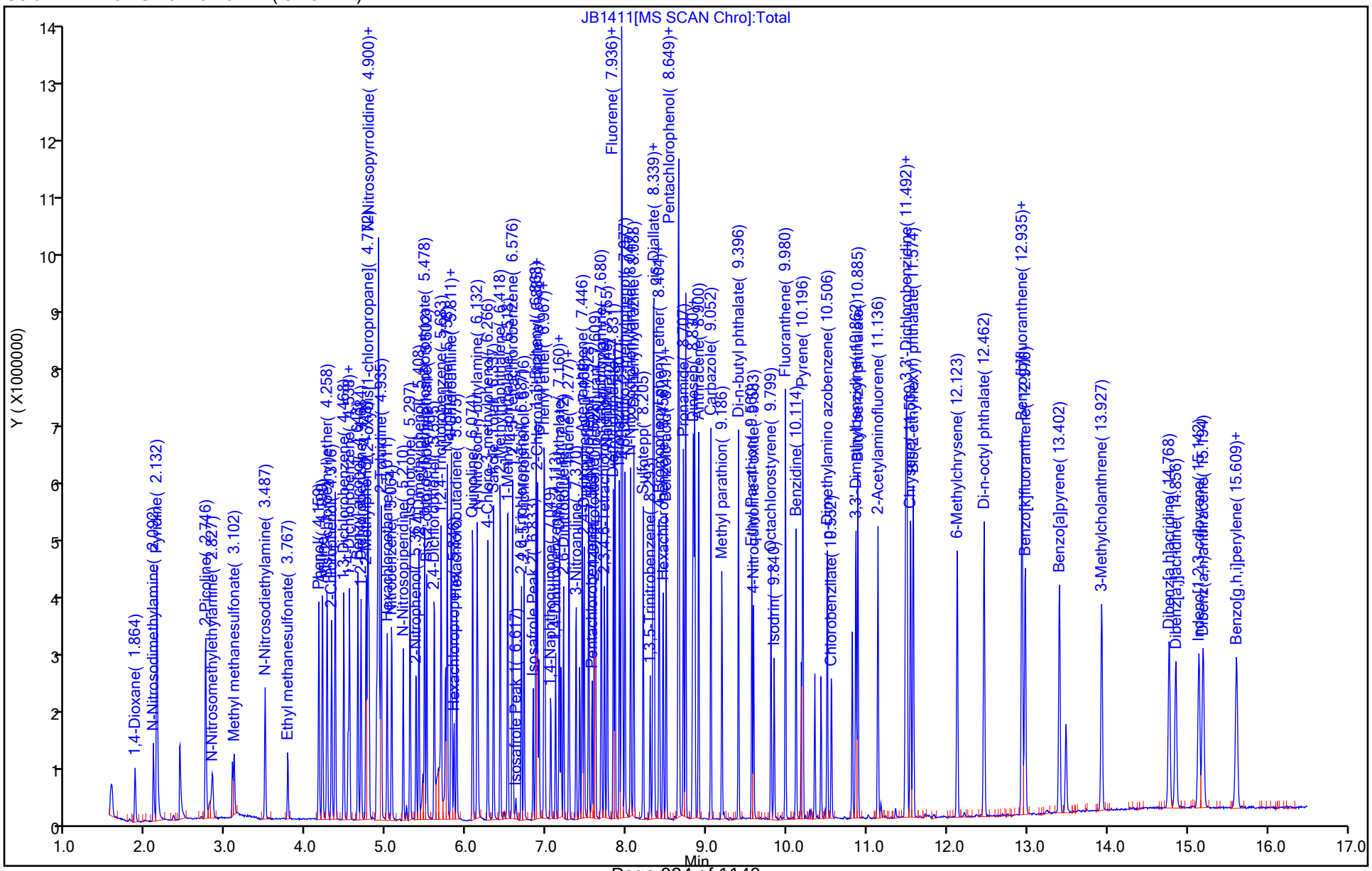
Report Date: 15-Feb-2022 08:33:13 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1411.D

Injection Date:	14-Feb-2022 15:45:30	Instrument ID:	HP23264	Operator ID:	apb10206
Lims ID:	ICV FULL			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Lab Sample ID: ICV 410-223551/12 Calibration Date: 02/14/2022 15:45

Instrument ID: HP23264 Calib Start Date: 02/14/2022 12:11

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 02/14/2022 14:41

Lab File ID: JB1411.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6909	0.6566		11.9	12.5	-5.0	30.0
N-Nitrosodimethylamine	Ave	1.281	1.192		11.6	12.5	-7.0	30.0
Pyridine	Ave	1.921	1.798		23.4	25.0	-6.4	30.0
2-Picoline	Ave	1.835	1.979		13.5	12.5	7.9	30.0
N-Nitrosomethylethylamine	Ave	0.7919	0.8672		13.7	12.5	9.5	30.0
Methyl methanesulfonate	Ave	1.149	1.144		6.22	6.25	-0.5	30.0
N-Nitrosodiethylamine	Ave	0.7579	0.8030		13.2	12.5	5.9	30.0
Ethyl methanesulfonate	Ave	0.8926	0.8463		5.93	6.25	-5.2	30.0
Phenol	Ave	2.251	2.222	0.8000	12.3	12.5	-1.3	30.0
Aniline	Ave	2.685	2.746		12.8	12.5	2.3	30.0
Bis(2-chloroethyl)ether	Ave	1.747	1.739	0.7000	12.4	12.5	-0.5	30.0
2-Chlorophenol	Ave	1.435	1.414	0.8000	12.3	12.5	-1.4	30.0
1,3-Dichlorobenzene	Ave	1.473	1.502		12.7	12.5	2.0	30.0
1,4-Dichlorobenzene	Ave	1.536	1.528		12.4	12.5	-0.6	30.0
Benzyl alcohol	Ave	1.028	1.048		12.7	12.5	1.9	30.0
1,2-Dichlorobenzene	Ave	1.469	1.460		12.4	12.5	-0.6	30.0
2-Methylphenol	Ave	1.490	1.471	0.7000	12.3	12.5	-1.2	30.0
2,2'-oxybis[1-chloropropane]	Ave	3.091	3.069	0.0100	12.4	12.5	-0.7	30.0
N-Nitrosopyrrolidine	Ave	0.8744	0.9469		13.5	12.5	8.3	30.0
4-Methylphenol (and/or 3-Methylphenol)	Ave	1.599	1.544	0.6000	12.1	12.5	-3.5	30.0
N-Nitrosodi-n-propylamine	Ave	1.609	1.530	0.5000	11.9	12.5	-4.9	30.0
Acetophenone	Ave	2.496	2.406	0.0100	12.1	12.5	-3.6	30.0
N-Nitrosomorpholine	Ave	1.284	1.402		13.6	12.5	9.2	30.0
o-Toluidine	Ave	2.414	2.722		14.1	12.5	12.8	30.0
Hexachloroethane	Ave	0.7430	0.6935	0.3000	11.7	12.5	-6.7	30.0
Nitrobenzene	Ave	0.5321	0.5146	0.2000	12.1	12.5	-3.3	30.0
N-Nitrosopiperidine	Ave	0.1921	0.1997		13.0	12.5	3.9	30.0
Isophorone	Ave	0.9708	0.9508	0.4000	12.2	12.5	-2.1	30.0
2-Nitrophenol	Ave	0.1951	0.1871	0.1000	12.0	12.5	-4.1	30.0
2,4-Dimethylphenol	Ave	0.4295	0.4119	0.2000	12.0	12.5	-4.1	30.0
o,o',o''-Triethylphosphorothioate	Ave	0.1563	0.1614		12.9	12.5	3.3	30.0
Bis(2-chloroethoxy)methane	Ave	0.5751	0.5762	0.3000	12.5	12.5	0.2	30.0
2,4-Dichlorophenol	Ave	0.2988	0.2951	0.2000	12.3	12.5	-1.3	30.0
1,2,4-Trichlorobenzene	Ave	0.3163	0.3234		12.8	12.5	2.2	30.0
Naphthalene	Ave	1.021	1.006	0.7000	12.3	12.5	-1.4	30.0
4-Chloroaniline	Ave	0.4534	0.4639	0.0100	12.8	12.5	2.3	30.0
2,6-Dichlorophenol	Ave	0.2864	0.2923		12.8	12.5	2.0	30.0
Hexachloropropene	Ave	0.2343	0.2469		6.59	6.25	5.4	30.0
Hexachlorobutadiene	Ave	0.1789	0.1867	0.0100	13.0	12.5	4.4	30.0
Quinoline	Ave	0.6640	0.7468		14.1	12.5	12.5	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Lab Sample ID: ICV 410-223551/12 Calibration Date: 02/14/2022 15:45

Instrument ID: HP23264 Calib Start Date: 02/14/2022 12:11

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 02/14/2022 14:41

Lab File ID: JB1411.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Nitrosodi-n-butylamine	Ave	0.4283	0.3471		10.1	12.5	-19.0	30.0
4-Chloro-3-methylphenol	Ave	0.3644	0.3595	0.2000	12.3	12.5	-1.3	30.0
Safrole, Total	Ave	0.2529	0.2637		13.0	12.5	4.3	30.0
2-Methylnaphthalene	Ave	0.6769	0.6570	0.4000	12.1	12.5	-2.9	30.0
1-Methylnaphthalene	Ave	0.6340	0.6213		12.2	12.5	-2.0	30.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5880	0.5804	0.0100	12.3	12.5	-1.3	30.0
Isosafrole Peak 1	Ave	0.5688	0.6138		0.809	0.750	7.9	30.0
2,4,6-Trichlorophenol	Ave	0.3992	0.3860	0.2000	12.1	12.5	-3.3	30.0
2,4,5-Trichlorophenol	Ave	0.4474	0.4432	0.2000	12.4	12.5	-0.9	30.0
Isosafrole Peak 2	Ave	0.6051	0.5788		5.26	5.50	-4.4	30.0
1,1'-Biphenyl	Ave	1.559	1.500	0.0100	12.0	12.5	-3.8	30.0
2-Chloronaphthalene	Ave	1.193	1.171	0.8000	12.3	12.5	-1.8	30.0
1-Chloronaphthalene	Ave	1.166	1.139		6.10	6.25	-2.3	30.0
Diphenyl ether	Ave	0.8128	0.8348		12.8	12.5	2.7	30.0
2-Nitroaniline	Ave	0.4478	0.4375	0.0100	12.2	12.5	-2.3	30.0
1,4-Naphthoquinone	Ave	0.5195	0.5215			6.25	0.4	30.0
1,4-Dinitrobenzene	Ave	0.1910	0.1867		12.2	12.5	-2.2	30.0
Dimethyl phthalate	Ave	1.466	1.412	0.0100	12.0	12.5	-3.7	30.0
1,3-Dinitrobenzene	Ave	0.2214	0.2127		12.0	12.5	-3.9	30.0
2,6-Dinitrotoluene	Ave	0.3268	0.3067	0.2000	11.7	12.5	-6.2	30.0
Acenaphthylene	Ave	1.918	1.930	0.9000	12.6	12.5	0.6	30.0
3-Nitroaniline	Ave	0.3853	0.3783	0.0100	12.3	12.5	-1.8	30.0
Acenaphthene	Ave	1.245	1.239	0.9000	12.4	12.5	-0.4	30.0
2,4-Dinitrophenol	Ave	0.1997	0.2008	0.0100	25.1	25.0	0.5	30.0
4-Nitrophenol	Ave	0.2723	0.2776	0.0100	25.5	25.0	1.9	30.0
Pentachlorobenzene	Ave	0.5211	0.5295		6.35	6.25	1.6	30.0
2,4-Dinitrotoluene	Ave	0.4377	0.4229	0.2000	12.1	12.5	-3.4	30.0
Dibenzofuran	Ave	1.686	1.642	0.8000	12.2	12.5	-2.6	30.0
1-Naphthylamine	Ave	1.148	1.271		13.8	12.5	10.6	30.0
2,3,4,6-Tetrachlorophenol	Ave	0.3556	0.3380	0.0100	11.9	12.5	-5.0	30.0
2-Naphthylamine	Ave	1.306	1.392		13.3	12.5	6.6	30.0
Diethyl phthalate	Ave	1.562	1.538	0.0100	12.3	12.5	-1.5	30.0
Thionazin	Ave	0.2938	0.2718		11.6	12.5	-7.5	30.0
4-Chlorophenyl-phenyl ether	Ave	0.6245	0.5994	0.4000	12.0	12.5	-4.0	30.0
Fluorene	Ave	1.370	1.279	0.9000	11.7	12.5	-6.6	30.0
5-Nitro-o-toluidine	Ave	0.3996	0.4146		13.0	12.5	3.7	30.0
4-Nitroaniline	Ave	0.3837	0.3817	0.0100	12.4	12.5	-0.5	30.0
4,6-Dinitro-2-methylphenol	Ave	0.1214	0.1365	0.0100	28.1	25.0	12.4	30.0
N-Nitrosodiphenylamine	Ave	0.6148	0.6195	0.0100	10.7	10.6	0.8	30.0
1,2-Diphenylhydrazine	Ave	1.106	1.120		12.7	12.5	1.3	30.0
Sulfotepp	Ave	0.2101	0.1971		11.7	12.5	-6.2	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Lab Sample ID: ICV 410-223551/12 Calibration Date: 02/14/2022 15:45

Instrument ID: HP23264 Calib Start Date: 02/14/2022 12:11

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 02/14/2022 14:41

Lab File ID: JB1411.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3,5-Trinitrobenzene	Ave	0.0628	0.0711			12.5	13.2	30.0
cis-Diallate	Ave	0.4086	0.4542		10.4	9.38	11.2	30.0
Phorate	Ave	0.6989	0.7285		13.0	12.5	4.2	30.0
Phenacetin	Ave	0.4411	0.5190		14.7	12.5	17.7	30.0
4-Bromophenyl-phenylether	Ave	0.1951	0.2033	0.1000	13.0	12.5	4.2	30.0
trans-Diallate	Ave	0.4344	0.4326		3.11	3.13	-0.4	30.0
Hexachlorobenzene	Ave	0.2127	0.2115	0.1000	12.4	12.5	-0.6	30.0
Dimethoate	Ave	0.4305	0.4443		12.9	12.5	3.2	30.0
Pentachlorophenol	Ave	0.1360	0.1353	0.0500	24.9	25.0	-0.6	30.0
4-Aminobiphenyl	Ave	0.8169	0.8969		13.7	12.5	9.8	30.0
Pentachloronitrobenzene	Ave	0.1138	0.1267		13.9	12.5	11.3	30.0
Pronamide	Ave	0.3504	0.3943		14.1	12.5	12.5	30.0
Dinoseb	Ave	0.1791	0.1950		6.80	6.25	8.9	30.0
Disulfoton	Ave	0.6468	0.6227		12.0	12.5	-3.7	30.0
Phenanthrene	Ave	1.120	1.095	0.7000	12.2	12.5	-2.3	30.0
Anthracene	Ave	1.090	1.122	0.7000	12.9	12.5	2.9	30.0
Carbazole	Ave	1.021	1.021	0.0100	12.5	12.5	-0.0	30.0
Methyl parathion	Ave	0.3172	0.3338		13.2	12.5	5.2	30.0
Di-n-butyl phthalate	Ave	1.391	1.440	0.0100	12.9	12.5	3.5	30.0
Parathion	Ave	0.1988	0.2092		13.2	12.5	5.2	30.0
4-Nitroquinoline-1-oxide	Ave	0.1155	0.1304		14.1	12.5	12.9	30.0
Octachlorostyrene	Ave	0.0938	0.0980		13.1	12.5	4.5	30.0
Isodrin	Ave	0.1464	0.1480		6.32	6.25	1.1	30.0
Fluoranthene	Ave	1.151	1.162	0.6000	12.6	12.5	1.0	30.0
Benzidine	Ave	0.8652	0.7537		10.9	12.5	-12.9	30.0
Pyrene	Ave	1.279	1.243	0.6000	12.1	12.5	-2.8	30.0
p-Dimethylamino azobenzene	Ave	0.1806	0.2035		14.1	12.5	12.6	30.0
Chlorobenzilate	Ave	0.4869	0.4899		6.29	6.25	0.6	30.0
3,3'-Dimethylbenzidine	Ave	0.6101	0.7457		15.3	12.5	22.2	30.0
Butylbenzylphthalate	Ave	0.6492	0.6418	0.0100	12.4	12.5	-1.1	30.0
2-Acetylaminofluorene	Ave	0.4639	0.5147		13.9	12.5	11.0	30.0
3,3'-Dichlorobenzidine	Ave	0.4264	0.3907	0.0100	11.5	12.5	-8.4	30.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2074	0.2187		13.2	12.5	5.4	30.0
Benzo[a]anthracene	Ave	1.044	1.041	0.8000	12.5	12.5	-0.3	30.0
Chrysene	Ave	0.9831	0.9587	0.7000	12.2	12.5	-2.5	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.9217	0.9014	0.0100	12.2	12.5	-2.2	30.0
6-Methylchrysene	Ave	0.7325	0.7125		12.2	12.5	-2.7	30.0
Di-n-octyl phthalate	Ave	1.848	1.872	0.0100	12.7	12.5	1.3	30.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5334	0.5612		6.58	6.25	5.2	30.0
Benzo[b]fluoranthene	Ave	1.262	1.236	0.7000	12.2	12.5	-2.0	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Lab Sample ID: ICV 410-223551/12 Calibration Date: 02/14/2022 15:45

Instrument ID: HP23264 Calib Start Date: 02/14/2022 12:11

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 02/14/2022 14:41

Lab File ID: JB1411.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[k]fluoranthene	Ave	1.201	1.219	0.7000	12.7	12.5	1.5	30.0
Benzo[a]pyrene	Ave	1.106	1.182	0.7000	13.4	12.5	6.8	30.0
3-Methylcholanthrene	Ave	0.5863	0.5970		12.7	12.5	1.8	30.0
Dibenz[a,h]acridine	Ave	0.8582	1.023		14.9	12.5	19.2	30.0
Dibenz[a,j]acridine	Ave	0.9263	0.9050		12.2	12.5	-2.3	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.008	1.028	0.5000	12.8	12.5	2.1	30.0
Dibenz(a,h)anthracene	Ave	1.064	1.056	0.4000	12.4	12.5	-0.8	30.0
Benzo[g,h,i]perylene	Ave	1.098	1.083	0.5000	12.3	12.5	-1.3	30.0
Hexachlorocyclopentadiene	Ave	0.4511		0.0500		12.5		30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1411.D
Lims ID: ICV FULL
Client ID:
Sample Type: ICV
Inject. Date: 14-Feb-2022 15:45:30 ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV FULL
Misc. Info.: 410-0050350-012
Operator ID: apb10206 Instrument ID: HP23264
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\MSSemi_HP23264.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Feb-2022 08:32:57 Calib Date: 14-Feb-2022 14:41:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1408.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: bauera Date: 15-Feb-2022 08:29:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.864	1.864	0.000	95	335425	12.5	11.9	
2 N-Nitrosodimethylamine	74	2.092	2.091	0.001	95	609055	12.5	11.6	
3 Pyridine	79	2.132	2.132	0.000	91	1837527	25.0	23.4	
5 2-Picoline	93	2.746	2.745	0.001	93	1011131	12.5	13.5	
6 N-Nitrosomethylethylamine	88	2.833	2.833	0.000	97	443000	12.5	13.7	
7 Methyl methanesulfonate	80	3.102	3.102	0.000	86	292087	6.25	6.22	
11 N-Nitrosodiethylamine	102	3.487	3.487	0.000	89	410222	12.5	13.2	
12 Ethyl methanesulfonate	109	3.767	3.773	-0.006	96	216175	6.25	5.93	
16 Phenol	94	4.159	4.164	-0.005	98	1135188	12.5	12.3	
17 Aniline	93	4.205	4.205	0.000	95	1402791	12.5	12.8	
18 Bis(2-chloroethyl)ether	93	4.264	4.264	0.000	89	888226	12.5	12.4	
19 2-Chlorophenol	128	4.316	4.322	-0.006	91	722332	12.5	12.3	
21 1,3-Dichlorobenzene	146	4.468	4.474	-0.006	95	767074	12.5	12.7	
* 22 1,4-Dichlorobenzene-d4	152	4.521	4.526	-0.005	96	204340	5.00	5.00	
23 1,4-Dichlorobenzene	146	4.538	4.544	-0.006	91	780355	12.5	12.4	
26 Benzyl alcohol	108	4.643	4.649	-0.006	88	535195	12.5	12.7	
27 1,2-Dichlorobenzene	146	4.684	4.684	0.000	93	746080	12.5	12.4	
29 2-Methylphenol	108	4.748	4.748	0.000	97	751456	12.5	12.3	
30 2,2'-oxybis[1-chloropropane]	45	4.783	4.783	0.000	93	1567612	12.5	12.4	
31 N-Nitrosopyrrolidine	100	4.877	4.883	-0.005	85	483738	12.5	13.5	
34 4-Methylphenol	108	4.894	4.894	0.000	97	788596	12.5	12.1	
32 Acetophenone	105	4.906	4.906	0.000	89	1229274	12.5	12.1	
33 N-Nitrosodi-n-propylamine	70	4.900	4.906	-0.006	80	781687	12.5	11.9	
35 N-Nitrosomorpholine	56	4.918	4.923	-0.005	89	716021	12.5	13.6	
36 2-Toluidine	106	4.935	4.941	-0.006	95	1390572	12.5	14.1	
37 Hexachloroethane	117	5.011	5.011	0.000	97	354284	12.5	11.7	
40 Nitrobenzene	77	5.064	5.069	-0.005	88	1031255	12.5	12.1	
41 N-Nitrosopiperidine	114	5.210	5.215	-0.005	81	400190	12.5	13.0	
42 Isophorone	82	5.297	5.297	0.000	98	1905402	12.5	12.2	
43 2-Nitrophenol	139	5.373	5.373	0.000	92	375042	12.5	12.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 2,4-Dimethylphenol	107	5.408	5.408	0.000	99	825430	12.5	12.0	
46 o,o',o''-Triethylphosphorothioat	198	5.478	5.478	0.000	95	323449	12.5	12.9	
47 Bis(2-chloroethoxy)methane	93	5.502	5.507	-0.005	94	1154746	12.5	12.5	
49 2,4-Dichlorophenol	162	5.601	5.601	0.000	96	591303	12.5	12.3	
50 1,2,4-Trichlorobenzene	180	5.683	5.688	-0.005	92	648189	12.5	12.8	
* 52 Naphthalene-d8	136	5.741	5.741	0.000	99	801614	5.00	5.00	
53 Naphthalene	128	5.758	5.764	-0.006	98	2016224	12.5	12.3	
56 4-Chloroaniline	127	5.805	5.811	-0.006	94	929653	12.5	12.8	
57 2,6-Dichlorophenol	162	5.817	5.817	0.000	92	585774	12.5	12.8	
58 Hexachloropropene	213	5.846	5.846	0.000	97	247396	6.25	6.59	
59 Hexachlorobutadiene	225	5.881	5.881	0.000	97	374071	12.5	13.0	
61 Quinoline	129	6.074	6.080	-0.006	94	1496609	12.5	14.1	
63 N-Nitrosodi-n-butylamine	84	6.132	6.132	0.000	95	695630	12.5	10.1	
65 4-Chloro-3-methylphenol	107	6.266	6.272	-0.006	94	720416	12.5	12.3	
66 Safrole, Total	162	6.337	6.342	-0.005	82	528384	12.5	13.0	
67 2-Methylnaphthalene	142	6.418	6.424	-0.006	89	1316614	12.5	12.1	
69 1-Methylnaphthalene	142	6.518	6.517	0.001	92	1245071	12.5	12.2	
71 Hexachlorocyclopentadiene	237		6.576				ND	ND	U
70 1,2,4,5-Tetrachlorobenzene	216	6.576	6.582	-0.006	98	627833	12.5	12.3	
72 Isosafrole Peak 1	162	6.617	6.623	-0.006	88	39839	0.7500	0.8094	
79 2,4,6-Trichlorophenol	196	6.687	6.693	-0.006	94	417539	12.5	12.1	
80 2,4,5-Trichlorophenol	196	6.716	6.722	-0.006	92	479406	12.5	12.4	
82 Isosafrole Peak 2	162	6.833	6.833	0.000	85	275460	5.50	5.26	
83 1,1'-Biphenyl	154	6.868	6.868	0.000	97	1622064	12.5	12.0	
84 2-Chloronaphthalene	162	6.885	6.885	-0.006	96	1266366	12.5	12.3	M
85 1-Chloronaphthalene	162	6.903	6.903	-0.006	97	615823	6.25	6.10	M
86 Phenyl ether	170	6.967	6.973	-0.006	90	903028	12.5	12.8	
87 2-Nitroaniline	138	6.979	6.985	-0.006	78	473283	12.5	12.2	
88 1,4-Naphthoquinone	158	7.055	7.055	0.000	79	282037	6.25	6.27	
89 1,4-Dinitrobenzene	168	7.113	7.113	0.000	85	201961	12.5	12.2	
90 Dimethyl phthalate	163	7.160	7.160	0.000	96	1527448	12.5	12.0	
91 1,3-Dinitrobenzene	168	7.183	7.183	0.000	81	230107	12.5	12.0	
92 2,6-Dinitrotoluene	165	7.212	7.218	-0.006	86	331723	12.5	11.7	
28 Indene	115	7.277	7.272	0.005	40	1797	NC	NC	
93 Acenaphthylene	152	7.277	7.282	-0.005	99	2087244	12.5	12.6	
95 3-Nitroaniline	138	7.370	7.370	0.000	88	409197	12.5	12.3	
* 96 Acenaphthene-d10	164	7.411	7.417	-0.006	96	432682	5.00	5.00	
97 Acenaphthene	153	7.446	7.446	0.000	98	1340383	12.5	12.4	
98 2,4-Dinitrophenol	184	7.469	7.469	0.000	79	434444	25.0	25.1	
100 4-Nitrophenol	109	7.528	7.528	0.000	91	600468	25.0	25.5	M
99 Pentachlorobenzene	250	7.569	7.568	0.001	96	286387	6.25	6.35	
102 2,4-Dinitrotoluene	165	7.592	7.598	-0.006	88	457442	12.5	12.1	
101 Dibenzofuran	168	7.609	7.609	0.000	96	1776100	12.5	12.2	
104 1-Naphthylamine	143	7.680	7.685	-0.005	97	1374420	12.5	13.8	
105 2,3,4,6-Tetrachlorophenol	232	7.720	7.726	-0.006	77	365584	12.5	11.9	
106 2-Naphthylamine	143	7.755	7.761	-0.006	95	1505515	12.5	13.3	
107 Diethyl phthalate	149	7.831	7.837	-0.006	96	1664082	12.5	12.3	
109 Thionazin	107	7.907	7.913	-0.006	75	294009	12.5	11.6	
108 Fluorene	166	7.936	7.936	0.000	92	1383762	12.5	11.7	
110 4-Chlorophenyl phenyl ether	204	7.936	7.942	-0.006	91	648389	12.5	12.0	
111 N-Nitro-o-toluidine	152	7.942	7.948	-0.006	79	448505	12.5	13.0	
112 4-Nitroaniline	138	7.948	7.954	-0.006	78	412910	12.5	12.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
113 4,6-Dinitro-2-methylphenol	198	7.977	7.983	-0.006	73	530924	25.0	28.1	
114 N-Nitrosodiphenylamine	169	8.047	8.053	-0.006	66	1023778	10.6	10.7	
115 1,2-Diphenylhydrazine	77	8.088	8.088	0.000	42	2177325	12.5	12.7	
117 Sulfotepp	97	8.205	8.211	-0.006	76	383181	12.5	11.7	
118 1,3,5-Trinitrobenzene	213	8.293	8.298	-0.005	80	138201	12.5	14.2	
120 cis-Diallate	86	8.328	8.328	0.000	93	662378	9.38	10.4	
119 Phorate	75	8.333	8.339	-0.006	94	1416415	12.5	13.0	
121 Phenacetin	108	8.345	8.345	0.000	87	1009091	12.5	14.7	
122 4-Bromophenyl phenyl ether	248	8.404	8.409	-0.005	76	395232	12.5	13.0	
123 trans-Diallate	86	8.409	8.415	-0.006	95	210256	3.13	3.11	
124 Hexachlorobenzene	284	8.456	8.456	0.000	91	411126	12.5	12.4	
48 Benzoic acid	105	8.491	8.480	0.011	28	23933	NC	NC	
125 Dimethoate	87	8.491	8.497	-0.006	97	863881	12.5	12.9	
127 Pentachlorophenol	266	8.643	8.643	0.000	90	525957	25.0	24.9	
129 4-Aminobiphenyl	169	8.649	8.649	0.000	92	1743756	12.5	13.7	
128 Pentachloronitrobenzene	237	8.655	8.655	0.000	84	246306	12.5	13.9	
130 Pronamide	173	8.707	8.713	-0.006	90	766558	12.5	14.1	
133 Dinoseb	211	8.818	8.824	-0.006	93	189554	6.25	6.80	
* 131 Phenanthrene-d10	188	8.824	8.830	-0.006	97	777700	5.00	5.00	
134 Disulfoton	88	8.836	8.836	0.000	97	1210624	12.5	12.0	
132 Phenanthrene	178	8.847	8.853	-0.006	98	2129036	12.5	12.2	
135 Anthracene	178	8.900	8.900	0.000	99	2181642	12.5	12.9	
136 Carbazole	167	9.052	9.052	0.000	97	1984116	12.5	12.5	
137 Methyl parathion	109	9.186	9.192	-0.006	90	648993	12.5	13.2	
138 Di-n-butyl phthalate	149	9.396	9.396	0.000	100	2799570	12.5	12.9	
139 Ethyl Parathion	109	9.560	9.565	-0.005	81	406671	12.5	13.2	
140 4-Nitroquinoline-1-oxide	190	9.583	9.589	-0.006	92	253534	12.5	14.1	
S 68 Diallate	86				0		12.5	13.5	
142 Octachlorostyrene	308	9.799	9.805	-0.006	90	190544	12.5	13.1	
143 Isodrin	193	9.840	9.846	-0.006	90	143892	6.25	6.32	
144 Fluoranthene	202	9.980	9.986	-0.006	99	2259736	12.5	12.6	
145 Benzidine	184	10.114	10.120	-0.006	99	1416346	12.5	10.9	
* 146 Pyrene-d10 (IS)	212	10.179	10.184	-0.005	97	751713	5.00	5.00	
147 Pyrene	202	10.196	10.202	-0.006	96	2335785	12.5	12.1	
149 p-Dimethylamino azobenzene	225	10.506	10.506	0.000	91	382386	12.5	14.1	
150 Chlorobenzilate	139	10.552	10.558	-0.006	82	460311	6.25	6.29	
152 3,3'-Dimethylbenzidine	212	10.862	10.862	0.000	99	1401470	12.5	15.3	
153 Butyl benzyl phthalate	149	10.885	10.885	0.000	95	1206041	12.5	12.4	
155 2-Acetylaminofluorene	181	11.136	11.136	0.000	93	967313	12.5	13.9	
S 94 Isosafrole	162				0		6.25	6.07	
157 3,3'-Dichlorobenzidine	252	11.481	11.481	0.000	78	734159	12.5	11.5	
158 4,4'-Methylene bis(2-chloroanil	231	11.487	11.492	-0.005	91	410920	12.5	13.2	
156 Benzo[a]anthracene	228	11.498	11.504	-0.006	100	1955869	12.5	12.5	
159 Chrysene	228	11.545	11.545	0.000	97	1801581	12.5	12.2	
160 Bis(2-ethylhexyl) phthalate	149	11.574	11.580	-0.006	96	1694072	12.5	12.2	
S 103 Aramite, Total	185		11.583				12.5	ND	7
161 6-Methylchrysene	242	12.123	12.129	-0.006	98	1339065	12.5	12.2	
162 Di-n-octyl phthalate	149	12.462	12.462	0.000	99	2947231	12.5	12.7	
164 Benzo[b]fluoranthene	252	12.935	12.935	0.000	97	1945628	12.5	12.2	
163 7,12-Dimethylbenz(a)anthracene	256	12.935	12.935	0.000	89	441693	6.25	6.58	
165 Benzo[k]fluoranthene	252	12.976	12.975	0.001	99	1919550	12.5	12.7	
166 Benzo[a]pyrene	252	13.402	13.402	0.000	79	1859946	12.5	13.4	

Report Date: 15-Feb-2022 08:33:13 Chrom Revision: 2.3 18-Jan-2022 20:25:40
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1411.D

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 167 Perylene-d12	264	13.484	13.483	0.001	97	629687	5.00	5.00	
168 3-Methylcholanthrene	268	13.927	13.933	-0.006	91	939741	12.5	12.7	
169 Dibenz[a,h]acridine	279	14.768	14.774	-0.006	92	1610461	12.5	14.9	
170 Dibenz[a,j]acridine	279	14.856	14.861	-0.005	95	1424677	12.5	12.2	
171 Indeno[1,2,3-cd]pyrene	276	15.142	15.148	-0.006	97	1618711	12.5	12.8	
200 Aramite Peak 1	185		15.156				ND	ND	
192 Aramite Peak 2	185		15.185				ND	ND	
172 Dibenz(a,h)anthracene	278	15.194	15.200	-0.006	95	1662100	12.5	12.4	
180 Aramite Peak 4	185		15.432				ND	ND	
185 Aramite Peak 3	185		15.432				ND	ND	
173 Benzo[g,h,i]perylene	276	15.609	15.615	-0.006	96	1705570	12.5	12.3	
151 Famphur	218	15.609	15.702	-0.093	50	515	NC	NC	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected

Reagents:

MSS_RV8270ICV_00014 Amount Added: 1.00 Units: mL

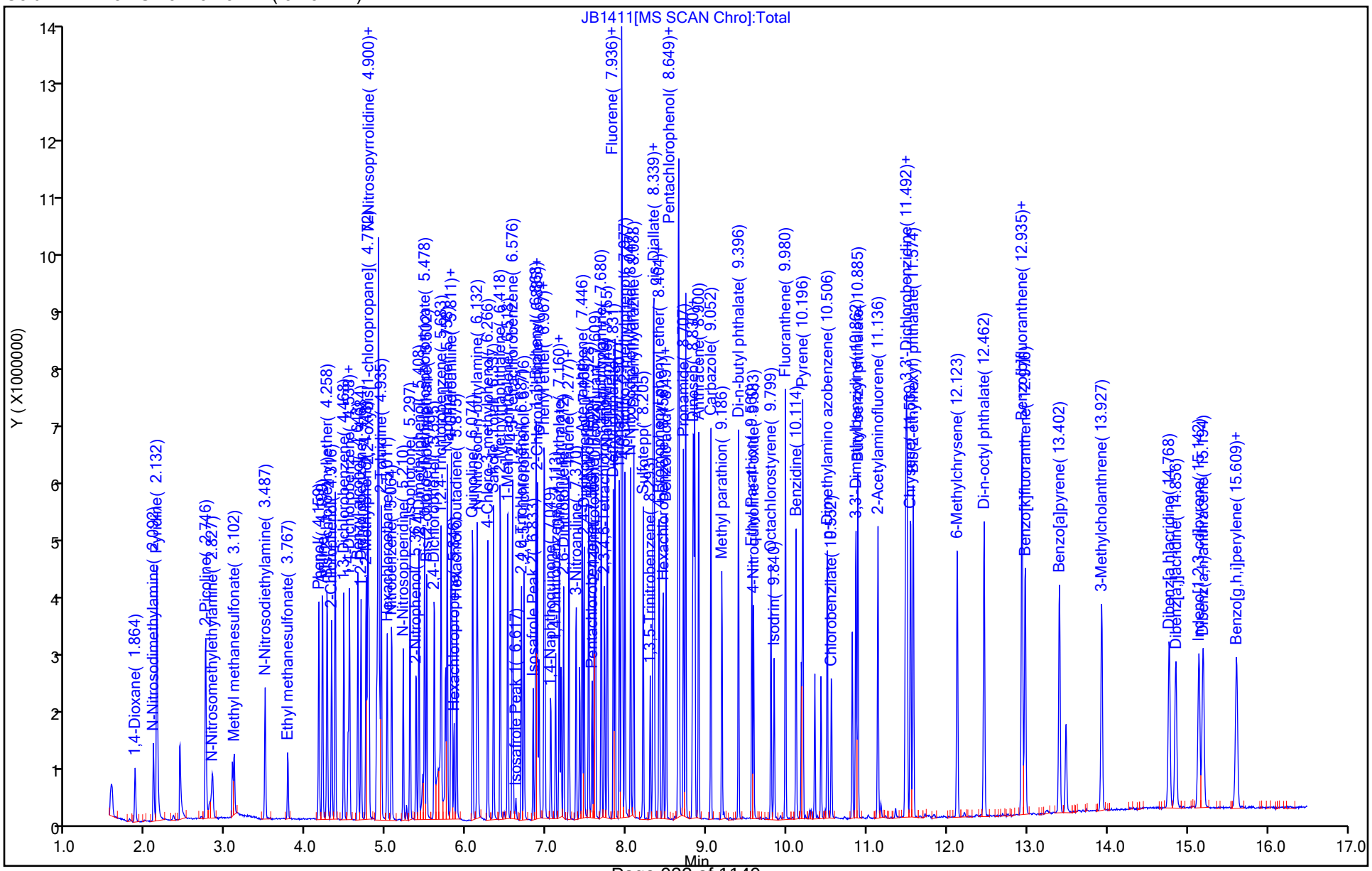
Report Date: 15-Feb-2022 08:33:13 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1411.D

Injection Date:	14-Feb-2022 15:45:30	Instrument ID:	HP23264	Operator ID:	apb10206
Lims ID:	ICV FULL			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

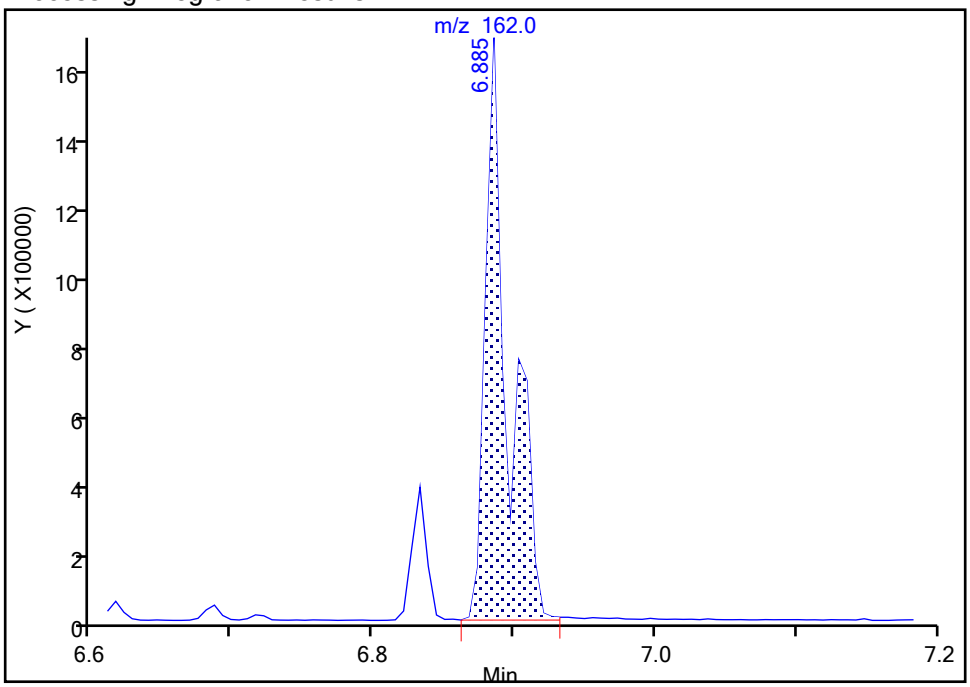
Data File:	\\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1411.D				
Injection Date:	14-Feb-2022 15:45:30	Instrument ID:	HP23264		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

84 2-Chloronaphthalene, CAS: 91-58-7

Signal: 1

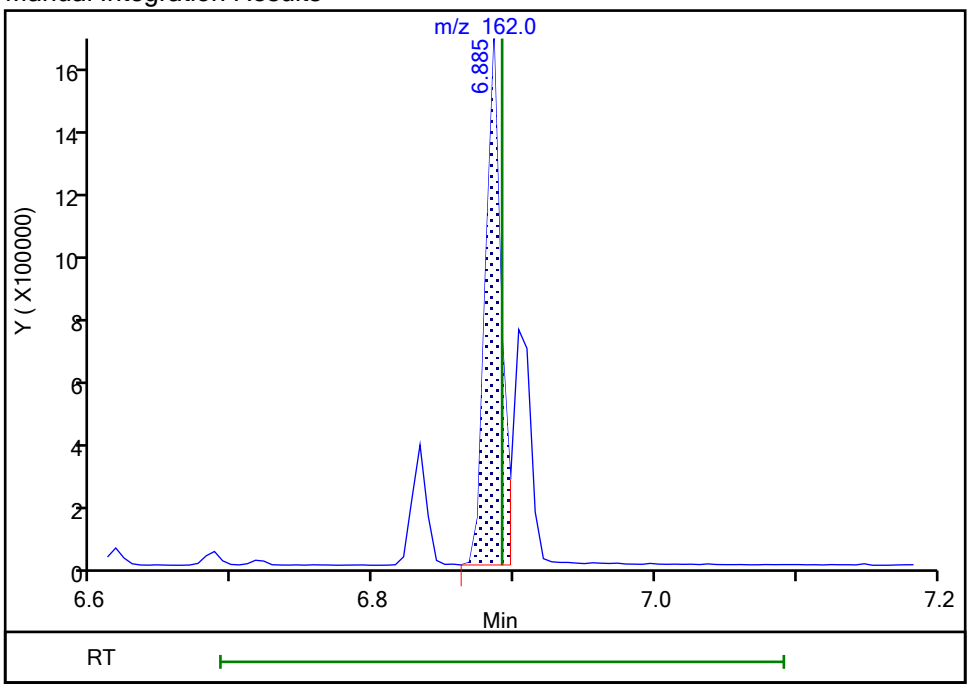
Processing Integration Results

RT: 6.89
Area: 1882189
Amount: 18.237729
Amount Units: ug/ml



Manual Integration Results

RT: 6.89
Area: 1266366
Amount: 12.270628
Amount Units: ug/ml



Reviewer: bauera, 15-Feb-2022 08:26:52

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

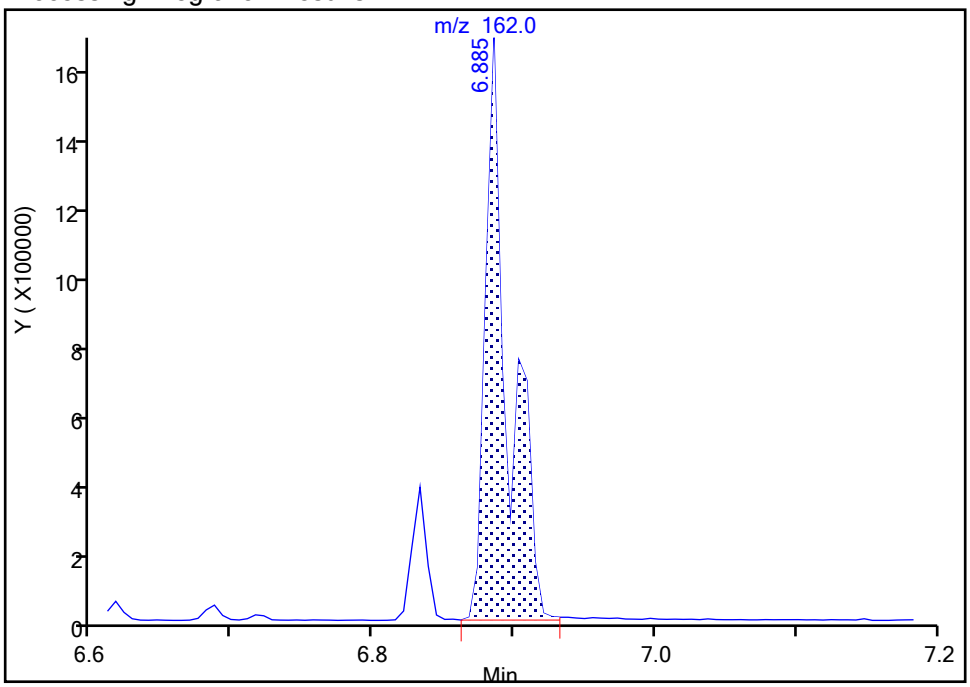
Data File:	\\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1411.D				
Injection Date:	14-Feb-2022 15:45:30	Instrument ID:	HP23264		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

85 1-Chloronaphthalene, CAS: 90-13-1

Signal: 1

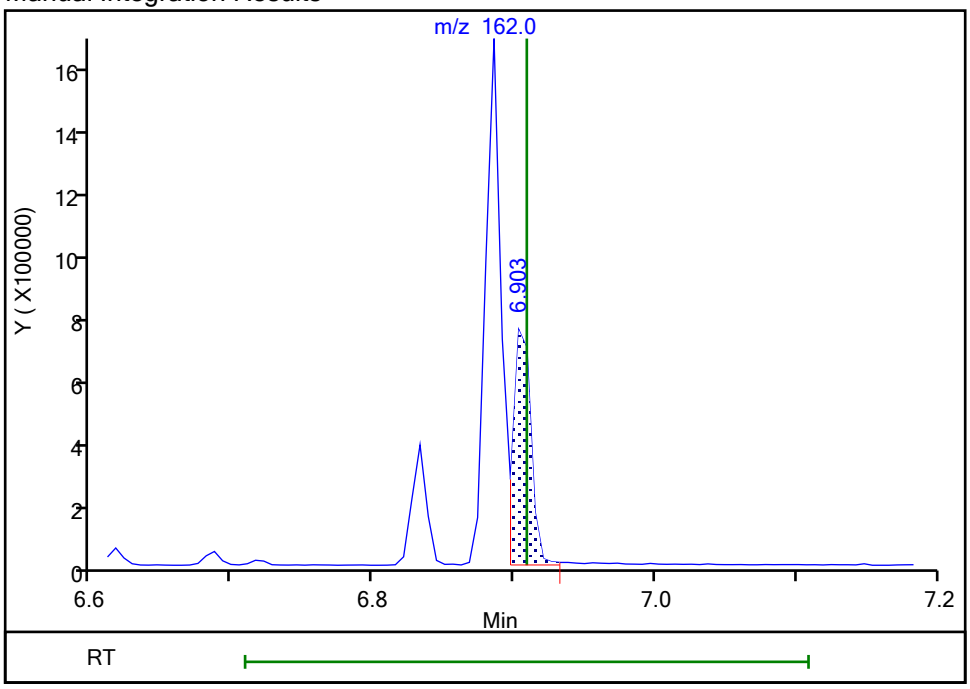
Processing Integration Results

RT: 6.89
Area: 1882189
Amount: 18.657365
Amount Units: ug/ml



Manual Integration Results

RT: 6.90
Area: 615823
Amount: 6.104400
Amount Units: ug/ml



Reviewer: bauera, 15-Feb-2022 08:26:58

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

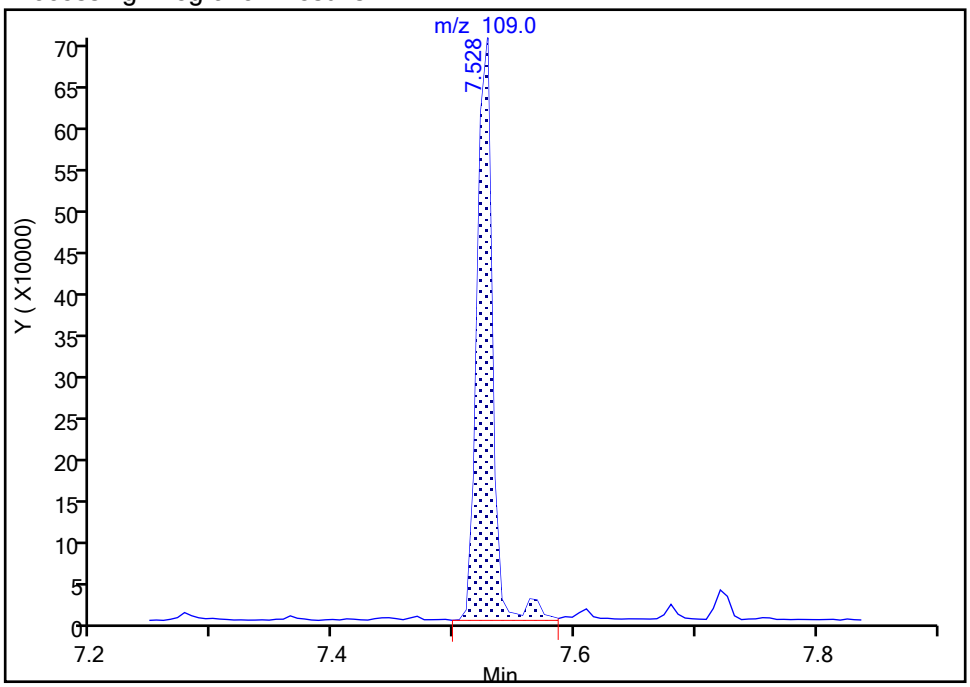
Data File:	\\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1411.D				
Injection Date:	14-Feb-2022 15:45:30	Instrument ID:	HP23264		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

100 4-Nitrophenol, CAS: 100-02-7

Signal: 1

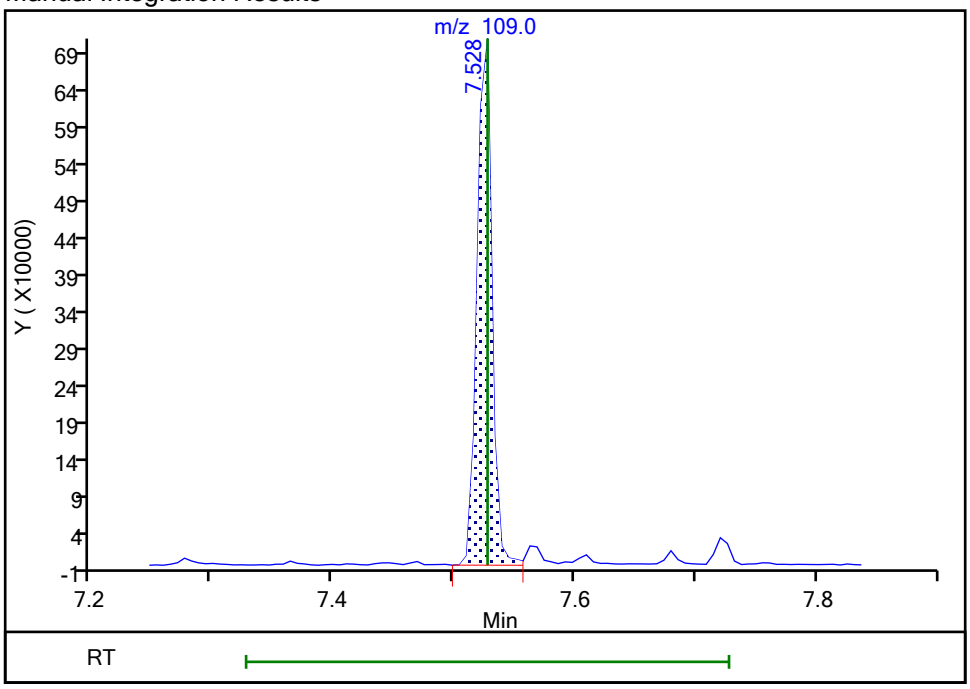
Processing Integration Results

RT: 7.53
Area: 623594
Amount: 26.464303
Amount Units: ug/ml



Manual Integration Results

RT: 7.53
Area: 600468
Amount: 25.482874
Amount Units: ug/ml



Reviewer: bauera, 15-Feb-2022 08:27:29

Audit Action: Manually Integrated Audit Reason: Baseline

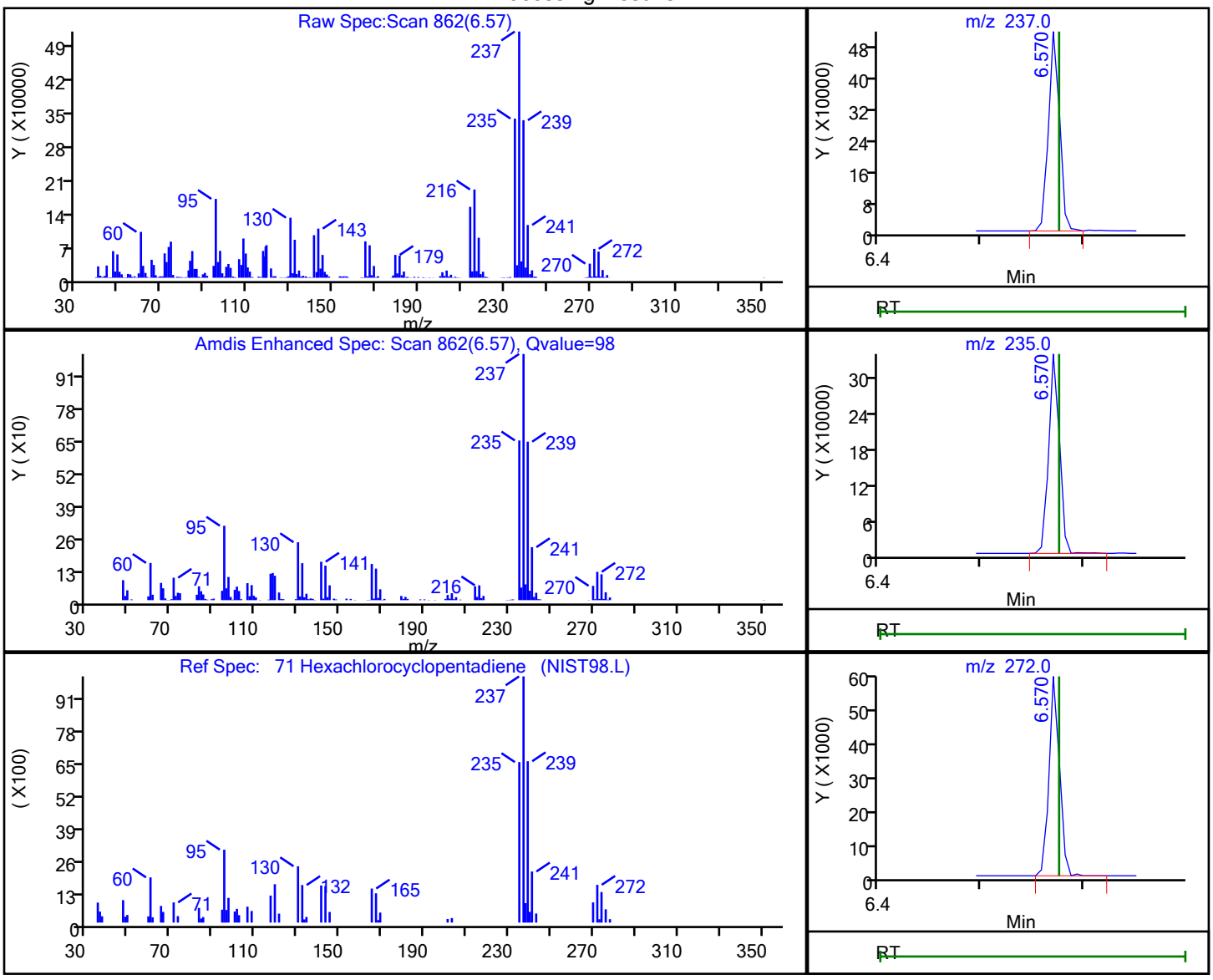
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1411.D				
Injection Date:	14-Feb-2022 15:45:30	Instrument ID:	HP23264		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

71 Hexachlorocyclopentadiene, CAS: 77-47-4

Processing Results



RT	Mass	Response	Amount
6.57	237.00	388782	9.960131
6.57	235.00	243644	
6.57	272.00	42906	

Reviewer: bauera, 15-Feb-2022 08:28:18

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

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Lab Sample ID: CCVIS 410-231885/2 Calibration Date: 03/09/2022 17:16

Instrument ID: HP23264 Calib Start Date: 02/14/2022 12:11

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 02/14/2022 14:41

Lab File ID: JC0951.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6909	0.7040		12.7	12.5	1.9	20.0
N-Nitrosodimethylamine	Ave	1.281	1.200		11.7	12.5	-6.4	20.0
Pyridine	Ave	1.921	1.904		24.8	25.0	-0.9	20.0
N,N-dimethylformamide	Ave	1.306	1.210		11.6	12.5	-7.4	20.0
2-Picoline	Ave	1.835	1.829		12.5	12.5	-0.3	20.0
N-Nitrosomethylethylamine	Ave	0.7919	0.7906		12.5	12.5	-0.2	20.0
Methyl methanesulfonate	Ave	1.149	1.118		12.2	12.5	-2.6	20.0
N-Nitrosodiethylamine	Ave	0.7579	0.7439		12.3	12.5	-1.9	20.0
Ethyl methanesulfonate	Ave	0.8926	0.8598		12.0	12.5	-3.7	20.0
Benzaldehyde	Ave	1.751	1.422	0.0100	10.2	12.5	-18.8	20.0
Phenol	Ave	2.251	2.337	0.8000	13.0	12.5	3.8	20.0
Aniline	Ave	2.685	2.689		12.5	12.5	0.2	20.0
Bis(2-chloroethyl)ether	Ave	1.747	1.750	0.7000	12.5	12.5	0.2	20.0
2-Chlorophenol	Ave	1.435	1.439	0.8000	12.5	12.5	0.3	20.0
1,3-Dichlorobenzene	Ave	1.473	1.514		12.8	12.5	2.8	20.0
1,4-Dichlorobenzene	Ave	1.536	1.564		12.7	12.5	1.8	20.0
Benzyl alcohol	Ave	1.028	1.019		12.4	12.5	-0.8	20.0
1,2-Dichlorobenzene	Ave	1.469	1.469		12.5	12.5	-0.0	20.0
2-Methylphenol	Ave	1.490	1.460	0.7000	12.3	12.5	-2.0	20.0
2,2'-oxybis[1-chloropropane]	Ave	3.091	2.752	0.0100	11.1	12.5	-11.0	20.0
N-Nitrosopyrrolidine	Ave	0.8744	0.8321		11.9	12.5	-4.8	20.0
Acetophenone	Ave	2.496	2.366	0.0100	11.8	12.5	-5.2	20.0
N-Nitrosodi-n-propylamine	Ave	1.609	1.461	0.5000	11.4	12.5	-9.2	20.0
4-Methylphenol (and/or 3-Methylphenol)	Ave	1.599	1.462	0.6000	11.4	12.5	-8.6	20.0
N-Nitrosomorpholine	Ave	1.284	1.141		11.1	12.5	-11.1	20.0
o-Toluidine	Ave	2.414	2.360		12.2	12.5	-2.2	20.0
Hexachloroethane	Ave	0.7430	0.7061	0.3000	11.9	12.5	-5.0	20.0
Nitrobenzene	Ave	0.5321	0.5102	0.2000	12.0	12.5	-4.1	20.0
N-Nitrosopiperidine	Ave	0.1921	0.1885		12.3	12.5	-1.9	20.0
Isophorone	Ave	0.9708	0.9431	0.4000	12.1	12.5	-2.9	20.0
2-Nitrophenol	Ave	0.1951	0.1872	0.1000	12.0	12.5	-4.1	20.0
2,4-Dimethylphenol	Ave	0.4295	0.4306	0.2000	12.5	12.5	0.3	20.0
o,o',o''-Triethylphosphorothioate	Ave	0.1563	0.1647		13.2	12.5	5.4	20.0
Bis(2-chloroethoxy)methane	Ave	0.5751	0.5689	0.3000	12.4	12.5	-1.1	20.0
2,4-Dichlorophenol	Ave	0.2988	0.2960	0.2000	12.4	12.5	-1.0	20.0
1,2,4-Trichlorobenzene	Ave	0.3163	0.3210		12.7	12.5	1.5	20.0
Naphthalene	Ave	1.021	1.019	0.7000	12.5	12.5	-0.2	20.0
a-Terpineol	Ave	0.4915	0.4614		11.7	12.5	-6.1	20.0
4-Chloroaniline	Ave	0.4534	0.4583	0.0100	12.6	12.5	1.1	20.0
2,6-Dichlorophenol	Ave	0.2864	0.2864		12.5	12.5	0.0	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Lab Sample ID: CCVIS 410-231885/2 Calibration Date: 03/09/2022 17:16

Instrument ID: HP23264 Calib Start Date: 02/14/2022 12:11

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 02/14/2022 14:41

Lab File ID: JC0951.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Hexachloropropene	Ave	0.2343	0.2352		12.6	12.5	0.4	20.0
Hexachlorobutadiene	Ave	0.1789	0.1814	0.0100	12.7	12.5	1.4	20.0
Quinoline	Ave	0.6640	0.6698		12.6	12.5	0.9	20.0
Caprolactam	Ave	0.1248	0.1132	0.0100	11.3	12.5	-9.3	20.0
N-Nitrosodi-n-butylamine	Ave	0.4283	0.4111		12.0	12.5	-4.0	20.0
1,4-phenylenediamine	Ave	0.3107	0.2490			12.5	-19.9	20.0
4-Chloro-3-methylphenol	Ave	0.3644	0.3512	0.2000	12.0	12.5	-3.6	20.0
Safrole, Total	Ave	0.2529	0.2624		13.0	12.5	3.8	20.0
2-Methylnaphthalene	Ave	0.6769	0.6584	0.4000	12.2	12.5	-2.7	20.0
1-Methylnaphthalene	Ave	0.6340	0.6352		12.5	12.5	0.2	20.0
Hexachlorocyclopentadiene	Ave	0.4511	0.4183	0.0500	11.6	12.5	-7.3	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5880	0.5955	0.0100	12.7	12.5	1.3	20.0
Isosafrole Peak 1	Ave	0.5688	0.5624		1.98	2.00	-1.1	20.0
2,4,6-Trichlorophenol	Ave	0.3992	0.4135	0.2000	12.9	12.5	3.6	20.0
2,4,5-Trichlorophenol	Ave	0.4474	0.4452	0.2000	12.4	12.5	-0.5	20.0
Isosafrole Peak 2	Ave	0.6051	0.6252		10.8	10.5	3.3	20.0
1,1'-Biphenyl	Ave	1.559	1.546	0.0100	12.4	12.5	-0.8	20.0
2-Chloronaphthalene	Ave	1.193	1.242	0.8000	13.0	12.5	4.2	20.0
1-Chloronaphthalene	Ave	1.166	1.172		12.6	12.5	0.5	20.0
Diphenyl ether	Ave	0.8128	0.7915		12.2	12.5	-2.6	20.0
2-Nitroaniline	Ave	0.4478	0.4479	0.0100	12.5	12.5	0.0	20.0
1,4-Naphthoquinone	Ave	0.5195	0.5177		12.5	12.5	-0.3	20.0
1,4-Dinitrobenzene	Ave	0.1910	0.1891		12.4	12.5	-1.0	20.0
Dimethyl phthalate	Ave	1.466	1.456	0.0100	12.4	12.5	-0.7	20.0
1,3-Dinitrobenzene	Ave	0.2214	0.2206		12.5	12.5	-0.4	20.0
2,6-Dinitrotoluene	Ave	0.3268	0.3181	0.2000	12.2	12.5	-2.6	20.0
Acenaphthylene	Ave	1.918	1.949	0.9000	12.7	12.5	1.6	20.0
3-Nitroaniline	Ave	0.3853	0.3749	0.0100	12.2	12.5	-2.7	20.0
Acenaphthene	Ave	1.245	1.285	0.9000	12.9	12.5	3.2	20.0
2,4-Dinitrophenol	Ave	0.1997	0.1882	0.0100	23.6	25.0	-5.8	20.0
4-Nitrophenol	Ave	0.2723	0.2623	0.0100	24.1	25.0	-3.7	20.0
Pentachlorobenzene	Ave	0.5211	0.5198		12.5	12.5	-0.2	20.0
2,4-Dinitrotoluene	Ave	0.4377	0.4370	0.2000	12.5	12.5	-0.2	20.0
Dibenzofuran	Ave	1.686	1.698	0.8000	12.6	12.5	0.7	20.0
1-Naphthylamine	Ave	1.148	1.165		12.7	12.5	1.4	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3556	0.3500	0.0100	12.3	12.5	-1.6	20.0
2-Naphthylamine	Ave	1.306	1.281		12.3	12.5	-1.9	20.0
Diethyl phthalate	Ave	1.562	1.526	0.0100	12.2	12.5	-2.3	20.0
Thionazin	Ave	0.2938	0.2722		11.6	12.5	-7.4	20.0
Fluorene	Ave	1.370	1.334	0.9000	12.2	12.5	-2.6	20.0
4-Chlorophenyl-phenyl ether	Ave	0.6245	0.6140	0.4000	12.3	12.5	-1.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Lab Sample ID: CCVIS 410-231885/2 Calibration Date: 03/09/2022 17:16

Instrument ID: HP23264 Calib Start Date: 02/14/2022 12:11

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 02/14/2022 14:41

Lab File ID: JC0951.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
5-Nitro-o-toluidine	Ave	0.3996	0.3842		12.0	12.5	-3.9	20.0
4-Nitroaniline	Ave	0.3837	0.3667	0.0100	11.9	12.5	-4.4	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1214	0.1227	0.0100	25.3	25.0	1.0	20.0
N-Nitrosodiphenylamine	Ave	0.6148	0.6112	0.0100	10.6	10.6	-0.6	20.0
1,2-Diphenylhydrazine	Ave	1.106	1.069		12.1	12.5	-3.3	20.0
Sulfotepp	Ave	0.2101	0.1909		11.4	12.5	-9.2	20.0
1,3,5-Trinitrobenzene	Ave	0.0628	0.0640			12.5	1.9	20.0
cis-Diallate	Ave	0.4086	0.4156		9.41	9.25	1.7	20.0
Phorate	Ave	0.6989	0.7052		12.6	12.5	0.9	20.0
Phenacetin	Ave	0.4411	0.4468		12.7	12.5	1.3	20.0
4-Bromophenyl-phenylether	Ave	0.1951	0.1976	0.1000	12.7	12.5	1.3	20.0
trans-Diallate	Ave	0.4344	0.4318		3.23	3.25	-0.6	20.0
Hexachlorobenzene	Ave	0.2127	0.2183	0.1000	12.8	12.5	2.6	20.0
Dimethoate	Ave	0.4305	0.4231		12.3	12.5	-1.7	20.0
Atrazine	Ave	0.2332	0.2050	0.0100	11.0	12.5	-12.1	20.0
Pentachlorophenol	Ave	0.1360	0.1332	0.0500	24.5	25.0	-2.1	20.0
4-Aminobiphenyl	Ave	0.8169	0.8143		12.5	12.5	-0.3	20.0
Pentachloronitrobenzene	Ave	0.1138	0.1158		12.7	12.5	1.8	20.0
Pronamide	Ave	0.3504	0.3495		12.5	12.5	-0.2	20.0
Dinoseb	Ave	0.1791	0.1863		13.0	12.5	4.0	20.0
Disulfoton	Ave	0.6468	0.6346		12.3	12.5	-1.9	20.0
Phenanthrene	Ave	1.120	1.090	0.7000	12.2	12.5	-2.7	20.0
Anthracene	Ave	1.090	1.109	0.7000	12.7	12.5	1.7	20.0
Carbazole	Ave	1.021	1.014	0.0100	12.4	12.5	-0.7	20.0
Methyl parathion	Ave	0.3172	0.3329		13.1	12.5	5.0	20.0
Di-n-butyl phthalate	Ave	1.391	1.405	0.0100	12.6	12.5	1.0	20.0
Parathion	Ave	0.1988	0.2012		12.6	12.5	1.2	20.0
4-Nitroquinoline-1-oxide	Ave	0.1155	0.0957		10.4	12.5	-17.1	20.0
Octachlorostyrene	Ave	0.0938	0.0921		12.3	12.5	-1.8	20.0
Isodrin	Ave	0.1464	0.1384		11.8	12.5	-5.4	20.0
Fluoranthene	Ave	1.151	1.121	0.6000	12.2	12.5	-2.5	20.0
Benzidine	Ave	0.8652	0.7831		33.9	37.5	-9.5	20.0
Pyrene	Ave	1.279	1.242	0.6000	12.1	12.5	-2.9	20.0
p-Dimethylamino azobenzene	Ave	0.1806	0.1765		12.2	12.5	-2.3	20.0
Chlorobenzilate	Ave	0.4869	0.4811		12.4	12.5	-1.2	20.0
3,3'-Dimethylbenzidine	Ave	0.6101	0.5968		12.2	12.5	-2.2	20.0
Butylbenzylphthalate	Ave	0.6492	0.6374	0.0100	12.3	12.5	-1.8	20.0
2-Acetylaminofluorene	Ave	0.4639	0.4421		11.9	12.5	-4.7	20.0
3,3'-Dichlorobenzidine	Ave	0.4264	0.4081	0.0100	12.0	12.5	-4.3	20.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2074	0.2009			12.5	-3.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Lab Sample ID: CCVIS 410-231885/2 Calibration Date: 03/09/2022 17:16

Instrument ID: HP23264 Calib Start Date: 02/14/2022 12:11

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 02/14/2022 14:41

Lab File ID: JC0951.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]anthracene	Ave	1.044	1.005	0.8000	12.0	12.5	-3.7	20.0
Chrysene	Ave	0.9831	0.9494	0.7000	12.1	12.5	-3.4	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.9217	0.8838	0.0100	12.0	12.5	-4.1	20.0
6-Methylchrysene	Ave	0.7325	0.7193		12.3	12.5	-1.8	20.0
Di-n-octyl phthalate	Ave	1.848	1.929	0.0100	13.0	12.5	4.4	20.0
7,12-Dimethylbenz(a)anthrace ne	Ave	0.5334	0.5513		12.9	12.5	3.4	20.0
Benzo[b]fluoranthene	Ave	1.262	1.318	0.7000	13.1	12.5	4.5	20.0
Benzo[k]fluoranthene	Ave	1.201	1.205	0.7000	12.5	12.5	0.4	20.0
Benzo[a]pyrene	Ave	1.106	1.119	0.7000	12.6	12.5	1.2	20.0
3-Methylcholanthrene	Ave	0.5863	0.5787		12.3	12.5	-1.3	20.0
Dibenz[a,h]acridine	Ave	0.8582	0.8257		12.0	12.5	-3.8	20.0
Dibenz[a,j]acridine	Ave	0.9263	0.8622		11.6	12.5	-6.9	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.008	0.9585	0.5000	11.9	12.5	-4.9	20.0
Dibenz(a,h)anthracene	Ave	1.064	1.025	0.4000	12.0	12.5	-3.7	20.0
Benzo[g,h,i]perylene	Ave	1.098	1.043	0.5000	11.9	12.5	-5.0	20.0
2-Fluorophenol (Surr)	Ave	1.548	1.522		24.6	25.0	-1.7	20.0
Phenol-d5 (Surr)	Ave	2.191	2.181		24.9	25.0	-0.5	20.0
Nitrobenzene-d5 (Surr)	Ave	0.5213	0.5152		24.7	25.0	-1.2	20.0
2-Fluorobiphenyl (Surr)	Ave	1.356	1.387		25.6	25.0	2.3	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1941	0.1964		25.3	25.0	1.2	20.0
p-Terphenyl-d14 (Surr)	Ave	0.8171	0.8022		24.5	25.0	-1.8	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0951.D
Lims ID: CCVIS L6
Client ID:
Sample Type: CCVIS
Inject. Date: 09-Mar-2022 17:16:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS L6
Operator ID: mem41592 Instrument ID: HP23264
Sublist: chrom-MSSemi_HP23264*sub27

Method: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\MSSemi_HP23264.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 09-Mar-2022 21:44:33 Calib Date: 23-Feb-2022 15:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23264\20220223-51020.b\JB2307.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: mcgowanm Date: 09-Mar-2022 18:00:19

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.788	1.788	0.000	97	496605	12.5	12.7	
	2 N-Nitrosodimethylamine	74	2.016	2.016	0.000	93	846373	12.5	11.7	
	3 Pyridine	79	2.051	2.051	0.000	94	2686648	25.0	24.8	
	4 Dimethylformamide	73	2.343	2.343	0.000	97	853809	12.5	11.6	
	5 2-Picoline	93	2.652	2.652	0.000	94	1290294	12.5	12.5	
	6 N-Nitrosomethylethylamine	88	2.740	2.740	0.000	96	557661	12.5	12.5	
	7 Methyl methanesulfonate	80	3.014	3.014	0.000	86	788968	12.5	12.2	
$	9 2-Fluorophenol	112	3.184	3.184	0.000	95	2147305	25.0	24.6	
	11 N-Nitrosodiethylamine	102	3.394	3.394	0.000	91	524740	12.5	12.3	
	12 Ethyl methanesulfonate	109	3.686	3.686	0.000	96	606501	12.5	12.0	
	13 Benzaldehyde	77	4.019	4.019	0.000	93	1003256	12.5	10.2	
$	15 Phenol-d5	99	4.083	4.083	0.000	96	3076341	25.0	24.9	
	16 Phenol	94	4.094	4.094	0.000	96	1648492	12.5	13.0	
	17 Aniline	93	4.118	4.118	0.000	97	1896793	12.5	12.5	
	18 Bis(2-chloroethyl)ether	93	4.176	4.176	0.000	91	1234549	12.5	12.5	
	19 2-Chlorophenol	128	4.235	4.235	0.000	93	1015194	12.5	12.5	
	21 1,3-Dichlorobenzene	146	4.381	4.381	0.000	95	1067684	12.5	12.8	
*	22 1,4-Dichlorobenzene-d4	152	4.433	4.433	0.000	97	282158	5.00	5.00	
	23 1,4-Dichlorobenzene	146	4.451	4.451	0.000	91	1103065	12.5	12.7	
	26 Benzyl alcohol	108	4.562	4.562	0.000	89	719073	12.5	12.4	
	27 1,2-Dichlorobenzene	146	4.597	4.597	0.000	94	1035929	12.5	12.5	
	29 2-Methylphenol	108	4.678	4.678	0.000	96	1030080	12.5	12.3	
	30 2,2'-oxybis[1-chloropropane]	45	4.696	4.696	0.000	94	1941449	12.5	11.1	
	31 N-Nitrosopyrrolidine	100	4.801	4.801	0.000	89	586992	12.5	11.9	
	32 Acetophenone	105	4.818	4.818	0.000	87	1668813	12.5	11.8	
	33 N-Nitrosodi-n-propylamine	70	4.818	4.818	0.000	84	1030730	12.5	11.4	
	34 4-Methylphenol	108	4.824	4.824	0.000	92	1031361	12.5	11.4	
	35 N-Nitrosomorpholine	56	4.836	4.836	0.000	89	805139	12.5	11.1	
	36 2-Toluidine	106	4.854	4.854	0.000	94	1664554	12.5	12.2	
	37 Hexachloroethane	117	4.918	4.918	0.000	97	498065	12.5	11.9	
$	39 Nitrobenzene-d5	82	4.964	4.964	0.000	89	2826745	25.0	24.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
40 Nitrobenzene	77	4.982	4.982	0.000	87	1399585	12.5	12.0	
41 N-Nitrosopiperidine	114	5.128	5.128	0.000	83	517215	12.5	12.3	
42 Isophorone	82	5.216	5.216	0.000	98	2587380	12.5	12.1	
43 2-Nitrophenol	139	5.291	5.291	0.000	95	513445	12.5	12.0	
44 2,4-Dimethylphenol	107	5.332	5.332	0.000	99	1181288	12.5	12.5	
46 o,o',o''-Triethylphosphorothioat	198	5.397	5.397	0.000	95	451776	12.5	13.2	
47 Bis(2-chloroethoxy)methane	93	5.426	5.426	0.000	94	1560806	12.5	12.4	
49 2,4-Dichlorophenol	162	5.525	5.525	0.000	97	812045	12.5	12.4	
50 1,2,4-Trichlorobenzene	180	5.601	5.601	0.000	93	880746	12.5	12.7	
* 52 Naphthalene-d8	136	5.653	5.653	0.000	99	1097381	5.00	5.00	
53 Naphthalene	128	5.677	5.677	0.000	98	2794807	12.5	12.5	
55 Alpha-Terpineol	59	5.688	5.688	0.000	92	1265953	12.5	11.7	
56 4-Chloroaniline	127	5.729	5.729	0.000	94	1257234	12.5	12.6	
57 2,6-Dichlorophenol	162	5.735	5.735	0.000	92	785819	12.5	12.5	
58 Hexachloropropene	213	5.759	5.759	0.000	97	645293	12.5	12.6	
59 Hexachlorobutadiene	225	5.794	5.794	0.000	97	497729	12.5	12.7	
61 Quinoline	129	5.992	5.992	0.000	94	1837500	12.5	12.6	
62 Caprolactam	113	6.051	6.051	0.000	72	310575	12.5	11.3	
63 N-Nitrosodi-n-butylamine	84	6.051	6.051	0.000	91	1127810	12.5	12.0	
64 p-Phenylene diamine	108	6.068	6.068	0.000	94	683110	12.5	10.0	
65 4-Chloro-3-methylphenol	107	6.208	6.208	0.000	94	963501	12.5	12.0	
66 Safrole, Total	162	6.261	6.261	0.000	83	719846	12.5	13.0	
67 2-Methylnaphthalene	142	6.337	6.337	0.000	90	1806276	12.5	12.2	
69 1-Methylnaphthalene	142	6.430	6.430	0.000	92	1742662	12.5	12.5	
71 Hexachlorocyclopentadiene	237	6.488	6.488	0.000	96	598137	12.5	11.6	
70 1,2,4,5-Tetrachlorobenzene	216	6.500	6.500	0.000	98	851533	12.5	12.7	
72 Isosafrole Peak 1	162	6.541	6.541	0.000	84	128666	2.00	1.98	
79 2,4,6-Trichlorophenol	196	6.611	6.611	0.000	94	591278	12.5	12.9	
80 2,4,5-Trichlorophenol	196	6.652	6.652	0.000	92	636575	12.5	12.4	
$ 81 2-Fluorobiphenyl (Surr)	172	6.693	6.693	0.000	99	3966502	25.0	25.6	
82 Isosafrole Peak 2	162	6.751	6.751	0.000	86	750897	10.5	10.8	
83 1,1'-Biphenyl	154	6.786	6.786	0.000	96	2211326	12.5	12.4	
84 2-Chloronaphthalene	162	6.804	6.804	0.000	96	1776455	12.5	13.0	
85 1-Chloronaphthalene	162	6.827	6.827	0.000	97	1676047	12.5	12.6	
86 Phenyl ether	170	6.891	6.891	0.000	86	1131761	12.5	12.2	
87 2-Nitroaniline	138	6.903	6.903	0.000	77	640384	12.5	12.5	
88 1,4-Naphthoquinone	158	6.973	6.973	0.000	79	740321	12.5	12.5	
89 1,4-Dinitrobenzene	168	7.037	7.037	0.000	87	270376	12.5	12.4	
90 Dimethyl phthalate	163	7.084	7.084	0.000	97	2081638	12.5	12.4	
91 1,3-Dinitrobenzene	168	7.107	7.107	0.000	83	315400	12.5	12.5	
92 2,6-Dinitrotoluene	165	7.137	7.137	0.000	87	454891	12.5	12.2	
93 Acenaphthylene	152	7.201	7.201	0.000	99	2786973	12.5	12.7	
95 3-Nitroaniline	138	7.294	7.294	0.000	90	536035	12.5	12.2	
* 96 Acenaphthene-d10	164	7.335	7.335	0.000	95	571957	5.00	5.00	
97 Acenaphthene	153	7.364	7.364	0.000	98	1837385	12.5	12.9	
98 2,4-Dinitrophenol	184	7.393	7.393	0.000	82	538108	25.0	23.6	
100 4-Nitrophenol	109	7.481	7.481	0.000	91	750188	25.0	24.1	
99 Pentachlorobenzene	250	7.487	7.487	0.000	96	743290	12.5	12.5	
102 2,4-Dinitrotoluene	165	7.522	7.522	0.000	87	624853	12.5	12.5	
101 Dibenzofuran	168	7.528	7.528	0.000	96	2428479	12.5	12.6	
104 1-Naphthylamine	143	7.604	7.604	0.000	98	1665461	12.5	12.7	
105 2,3,4,6-Tetrachlorophenol	232	7.650	7.650	0.000	77	500468	12.5	12.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
106 2-Naphthylamine	143	7.680	7.680	0.000	95	1831017	12.5	12.3	
107 Diethyl phthalate	149	7.756	7.756	0.000	97	2181567	12.5	12.2	
109 Thionazin	107	7.831	7.831	0.000	80	389204	12.5	11.6	
108 Fluorene	166	7.855	7.855	0.000	92	1907507	12.5	12.2	
110 4-Chlorophenyl phenyl ether	204	7.861	7.861	0.000	93	877999	12.5	12.3	
111 N-Nitro-o-toluidine	152	7.872	7.872	0.000	89	549375	12.5	12.0	
112 4-Nitroaniline	138	7.878	7.878	0.000	79	524275	12.5	11.9	
113 4,6-Dinitro-2-methylphenol	198	7.907	7.907	0.000	75	642021	25.0	25.3	
114 N-Nitrosodiphenylamine	169	7.972	7.972	0.000	66	1359158	10.6	10.6	
115 1,2-Diphenylhydrazine	77	8.012	8.012	0.000	42	2796438	12.5	12.1	
$ 116 2,4,6-Tribromophenol	330	8.088	8.088	0.000	86	561778	25.0	25.3	
117 Sulfotepp	97	8.129	8.129	0.000	76	499374	12.5	11.4	
118 1,3,5-Trinitrobenzene	213	8.228	8.228	0.000	82	167319	12.5	12.7	
120 cis-Diallate	86	8.252	8.252	0.000	93	804537	9.25	9.41	
119 Phorate	75	8.258	8.258	0.000	94	1844828	12.5	12.6	
121 Phenacetin	108	8.275	8.275	0.000	90	1168812	12.5	12.7	
122 4-Bromophenyl phenyl ether	248	8.328	8.328	0.000	74	516919	12.5	12.7	
123 trans-Diallate	86	8.334	8.334	0.000	96	293720	3.25	3.23	
124 Hexachlorobenzene	284	8.374	8.374	0.000	91	571112	12.5	12.8	
125 Dimethoate	87	8.421	8.421	0.000	96	1106716	12.5	12.3	
126 Atrazine	200	8.485	8.485	0.000	84	536360	12.5	11.0	
127 Pentachlorophenol	266	8.567	8.567	0.000	89	696935	25.0	24.5	
129 4-Aminobiphenyl	169	8.573	8.573	0.000	91	2130128	12.5	12.5	
128 Pentachloronitrobenzene	237	8.573	8.573	0.000	84	303001	12.5	12.7	
130 Pronamide	173	8.637	8.637	0.000	90	914318	12.5	12.5	
133 Dinoseb	211	8.748	8.748	0.000	80	487243	12.5	13.0	
* 131 Phenanthrene-d10	188	8.748	8.748	0.000	96	1046397	5.00	5.00	
134 Disulfoton	88	8.760	8.760	0.000	97	1660237	12.5	12.3	
132 Phenanthrene	178	8.772	8.772	0.000	98	2852145	12.5	12.2	
135 Anthracene	178	8.818	8.818	0.000	99	2900277	12.5	12.7	
136 Carbazole	167	8.976	8.976	0.000	96	2652714	12.5	12.4	
137 Methyl parathion	109	9.116	9.116	0.000	90	870888	12.5	13.1	
138 Di-n-butyl phthalate	149	9.320	9.320	0.000	100	3676104	12.5	12.6	
139 Ethyl Parathion	109	9.490	9.490	0.000	81	526221	12.5	12.6	
140 4-Nitroquinoline-1-oxide	190	9.507	9.507	0.000	91	250376	12.5	10.4	
S 68 Diallate	86				0		12.5	12.6	
142 Octachlorostyrene	308	9.723	9.723	0.000	89	240810	12.5	12.3	
143 Isodrin	193	9.758	9.758	0.000	91	362080	12.5	11.8	
144 Fluoranthene	202	9.904	9.904	0.000	99	2933835	12.5	12.2	
145 Benzidine	184	10.044	10.044	0.000	99	5615635	37.5	33.9	
* 146 Pyrene-d10 (IS)	212	10.103	10.103	0.000	98	956119	5.00	5.00	
147 Pyrene	202	10.120	10.120	0.000	96	2969724	12.5	12.1	
$ 148 p-Terphenyl-d14	244	10.284	10.284	0.000	99	3834856	25.0	24.5	
149 p-Dimethylamino azobenzene	225	10.424	10.424	0.000	91	421918	12.5	12.2	
150 Chlorobenzilate	139	10.477	10.477	0.000	83	1149955	12.5	12.4	
152 3,3'-Dimethylbenzidine	212	10.774	10.774	0.000	99	1426628	12.5	12.2	
153 Butyl benzyl phthalate	149	10.798	10.798	0.000	95	1523472	12.5	12.3	
155 2-Acetylaminofluorene	181	11.049	11.049	0.000	92	1056739	12.5	11.9	
S 94 Isosafrole	162				0		12.5	12.8	
157 3,3'-Dichlorobenzidine	252	11.387	11.387	0.000	80	975503	12.5	12.0	
158 4,4'-Methylene bis(2-chloroani	231	11.399	11.399	0.000	93	480232	12.5	12.1	
156 Benzo[a]anthracene	228	11.405	11.405	0.000	100	2402390	12.5	12.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
159 Chrysene	228	11.446	11.446	0.000	97	2269438	12.5	12.1	
160 Bis(2-ethylhexyl) phthalate	149	11.481	11.481	0.000	97	2112439	12.5	12.0	
161 6-Methylchrysene	242	12.024	12.024	0.000	99	1719379	12.5	12.3	
162 Di-n-octyl phthalate	149	12.357	12.357	0.000	99	3652457	12.5	13.0	
163 7,12-Dimethylbenz(a)anthracene	256	12.818	12.818	0.000	73	1043576	12.5	12.9	
164 Benzo[b]fluoranthene	252	12.818	12.818	0.000	97	2494931	12.5	13.1	
165 Benzo[k]fluoranthene	252	12.859	12.859	0.000	99	2281971	12.5	12.5	
166 Benzo[a]pyrene	252	13.279	13.279	0.000	79	2117973	12.5	12.6	
* 167 Perylene-d12	264	13.361	13.361	0.000	96	757194	5.00	5.00	
168 3-Methylcholanthrene	268	13.805	13.805	0.000	91	1095524	12.5	12.3	
169 Dibenz[a,h]acridine	279	14.622	14.622	0.000	92	1562988	12.5	12.0	
170 Dibenz[a,j]acridine	279	14.704	14.704	0.000	95	1632140	12.5	11.6	
171 Indeno[1,2,3-cd]pyrene	276	14.984	14.984	0.000	97	1814448	12.5	11.9	
172 Dibenz(a,h)anthracene	278	15.031	15.031	0.000	95	1939695	12.5	12.0	
173 Benzo[g,h,i]perylene	276	15.440	15.440	0.000	94	1974308	12.5	11.9	

QC Flag Legend

Processing Flags

Reagents:

MSS_RV8270_6_00025 Amount Added: 1.00 Units: ml

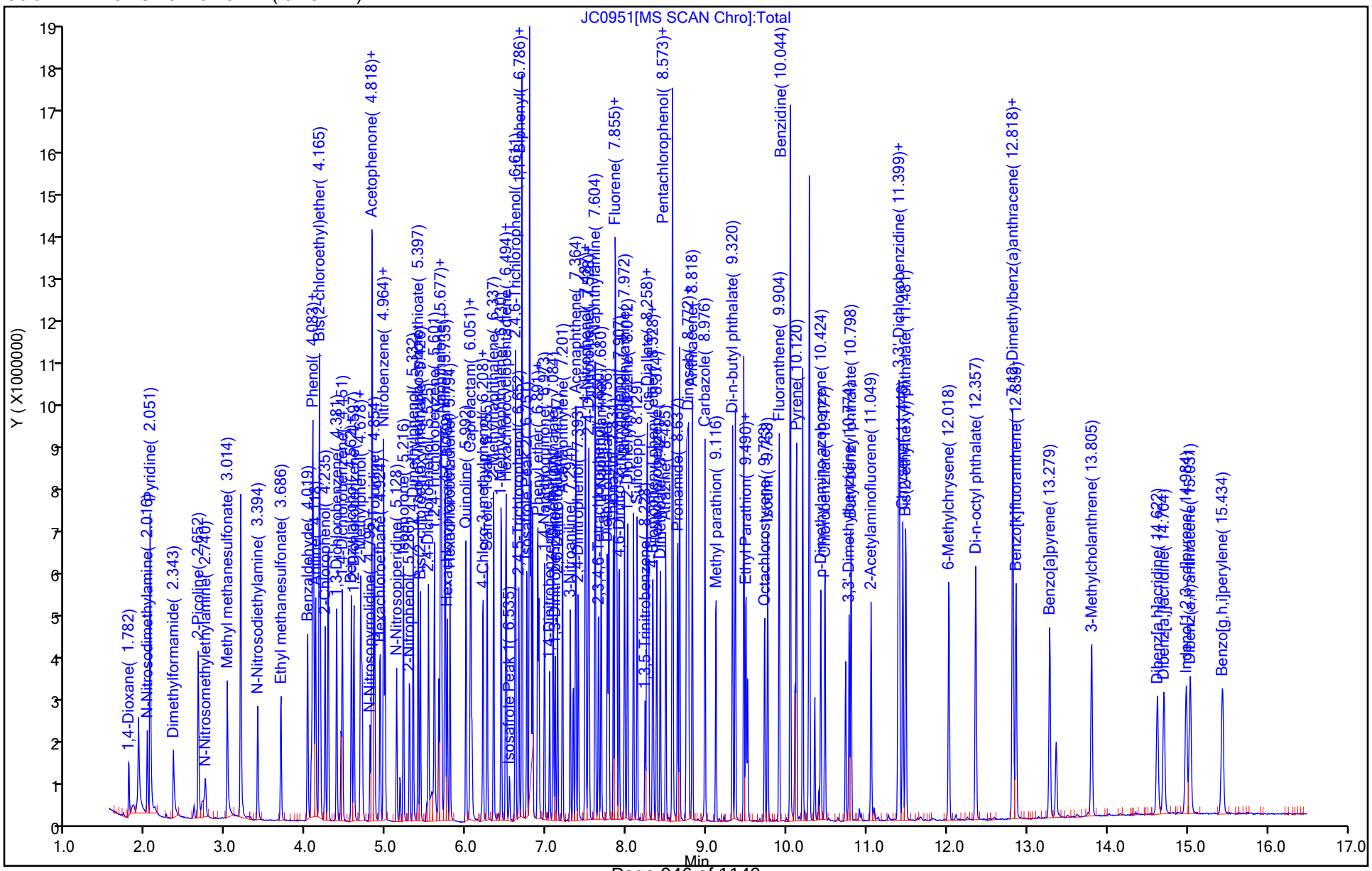
Report Date: 09-Mar-2022 21:44:34 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0951.D

Injection Date:	09-Mar-2022 17:16:30	Instrument ID:	HP23264	Operator ID:	mem41592
Lims ID:	CCVIS L6			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1400.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 14-Feb-2022 11:55:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0050350-001
Operator ID: apb10206 Instrument ID: HP23264

Method: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\MSSemi_HP23264.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Feb-2022 08:33:19 Calib Date: 14-Feb-2022 14:41:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1408.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: bauera Date: 14-Feb-2022 12:08:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
10 Pentachlorophenol_T	266	4.650	4.650	0.000	90	199860	NR	NR	
14 Benzidine_T	184	5.917	5.917	0.000	99	1023644	NR	NR	
207 DFTPP									
208 4,4'-DDE	246		6.028					ND	
210 4,4'-DDD	235	6.483	6.483	0.000	1	1476		NR	
209 4,4'-DDT	235	6.606	6.606	0.000	96	506566	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

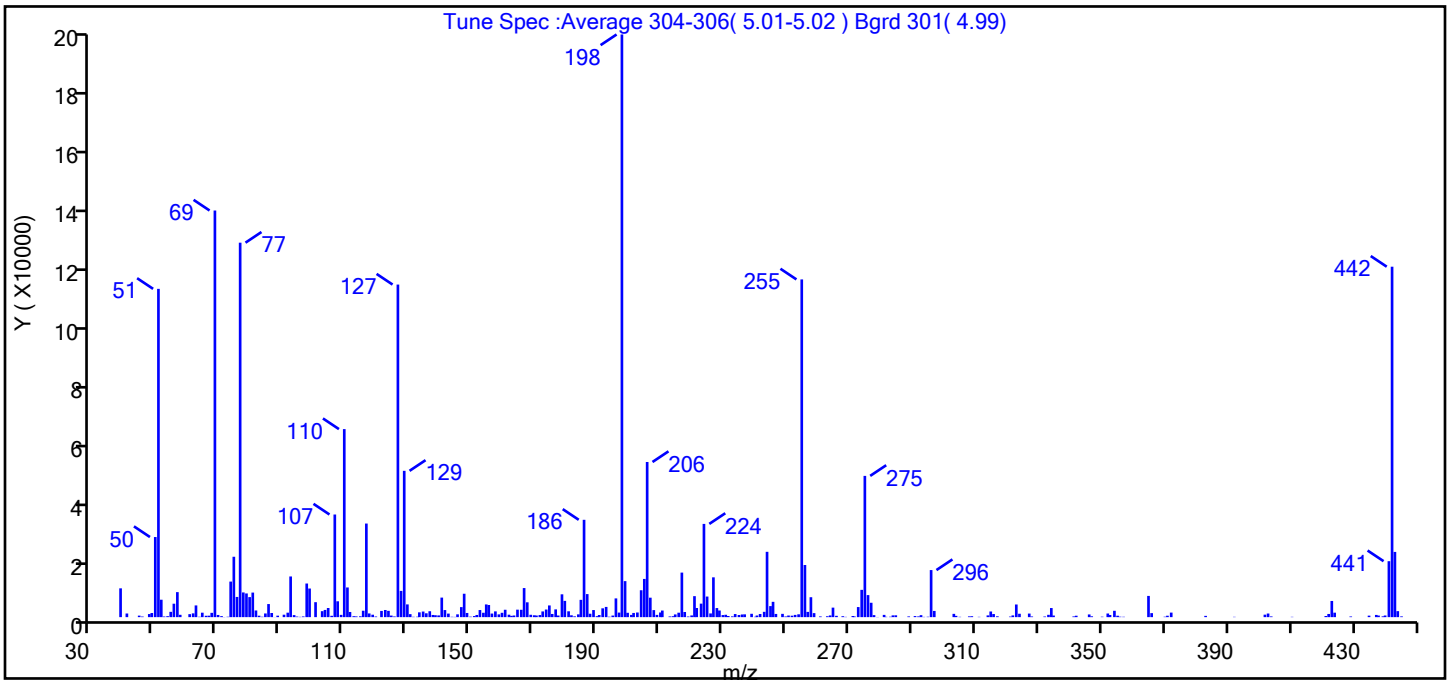
MSS_RVDFTPP_00009 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1400.D
Injection Date: 14-Feb-2022 11:55:30 Instrument ID: HP23264
Lims ID: DFTPP
Client ID:
Operator ID: apb10206 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI
Tune Method: DFTPP Method 8270D, BP 198

207 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (166.3)
51	10-80% of the base peak	56.3
68	<2% of mass 69	0.7 (1.1)
69	Present	69.8
70	<2% of mass 69	0.4 (0.5)
127	10-80% of the base peak	57.1
197	<2% of mass 198	0.8
199	5-9% of mass 198	6.2
275	10-60% of the base peak	24.2
365	>1% of mass 198	3.6
441	present but <24% of mass 442	9.6 (16.0)
442	base peak, or >50% of 198	60.1
443	15-24% of mass 442	11.2 (18.6)

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1400.D\MSSemi_HP23264.rslt\spectra.d
Injection Date: 14-Feb-2022 11:55:30
Spectrum: Tune Spec :Average 304-306(5.01-5.02) Bgrd 301(4.99)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 294

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	9666	123.00	2400	197.00	1525	278.00	671
41.00	1221	124.00	2115	198.00	195520	279.00	54
42.00	4	125.00	523	199.00	12083	281.00	758
45.00	508	126.00	225	200.00	1459	282.00	107
46.00	201	127.00	111600	201.00	748	283.00	137
48.00	1035	128.00	8806	202.00	1409	284.00	596
49.00	1386	129.00	49096	203.00	1559	285.00	612
50.00	26880	130.00	4275	204.00	9024	289.00	244
51.00	110160	131.00	1007	205.00	12823	291.00	361
52.00	5846	132.00	115	206.00	52064	292.00	246
53.00	211	133.00	148	207.00	6529	293.00	664
54.00	328	134.00	1610	208.00	2362	294.00	84
55.00	1781	135.00	1882	209.00	757	295.00	135
56.00	4509	136.00	1293	210.00	1563	296.00	15798
57.00	8393	137.00	1982	211.00	2215	297.00	2081
58.00	785	138.00	731	213.00	230	303.00	1104
61.00	1004	139.00	644	214.00	313	304.00	433
62.00	1268	140.00	581	215.00	910	305.00	106
63.00	3933	141.00	6560	216.00	1490	308.00	258
64.00	132	142.00	2376	217.00	14948	309.00	304
65.00	1493	143.00	1189	218.00	1730	311.00	102
66.00	461	144.00	118	219.00	209	314.00	588
67.00	485	145.00	83	220.00	570	315.00	1899
68.00	1444	146.00	938	221.00	7044	316.00	1038
69.00	136448	147.00	3365	222.00	3066	317.00	278
70.00	731	148.00	7854	223.00	4531	321.00	193
71.00	336	149.00	1402	224.00	31288	322.00	585
72.00	46	150.00	163	225.00	6911	323.00	4246
73.00	130	151.00	365	226.00	1244	324.00	1137
74.00	11931	152.00	728	227.00	13359	327.00	1199
75.00	20264	153.00	2381	228.00	3045	328.00	225
76.00	6778	154.00	1467	229.00	2227	332.00	211
77.00	125656	155.00	4267	230.00	696	333.00	782

Report Date: 15-Feb-2022 08:33:19 Chrom Revision: 2.3 18-Jan-2022 20:25:40
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1400.D\MSSemi_HP23264.rslt\spectra.d
Injection Date: 14-Feb-2022 11:55:30
Spectrum: Tune Spec :Average 304-306(5.01-5.02) Bgrd 301(4.99)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 294

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	8288	156.00	4069	231.00	797	334.00	3055
79.00	7951	157.00	1203	232.00	385	335.00	535
80.00	6723	158.00	1936	233.00	261	341.00	239
81.00	8242	159.00	925	234.00	1044	342.00	476
82.00	2236	160.00	1459	235.00	711	346.00	905
83.00	483	161.00	2478	236.00	896	347.00	277
84.00	133	162.00	822	237.00	938	350.00	150
85.00	1236	163.00	436	239.00	1127	352.00	1220
86.00	4390	164.00	550	240.00	124	353.00	720
87.00	1389	165.00	2509	241.00	544	354.00	2134
88.00	31	166.00	2472	242.00	1055	355.00	477
89.00	492	167.00	9761	243.00	1782	356.00	145
91.00	818	168.00	4979	244.00	21920	357.00	123
92.00	1499	169.00	791	245.00	3706	365.00	7120
93.00	13650	170.00	630	246.00	5139	366.00	1348
94.00	684	171.00	542	247.00	1074	370.00	146
95.00	195	172.00	702	249.00	1106	371.00	475
96.00	96	173.00	1917	250.00	219	372.00	1525
97.00	232	174.00	2552	251.00	544	383.00	429
98.00	11282	175.00	3928	252.00	489	392.00	103
99.00	9602	176.00	1069	253.00	754	402.00	833
101.00	5020	177.00	2605	254.00	951	403.00	1216
103.00	2002	178.00	546	255.00	113328	404.00	240
104.00	2420	179.00	7663	256.00	17496	410.00	104
105.00	3065	180.00	5455	257.00	1762	421.00	384
106.00	454	181.00	1963	258.00	6686	422.00	1069
107.00	34440	182.00	623	259.00	1350	423.00	5428
108.00	5322	183.00	268	261.00	235	424.00	1499
109.00	761	184.00	932	263.00	296	429.00	226
110.00	63096	185.00	5804	264.00	568	435.00	505
111.00	9961	186.00	32664	265.00	3192	437.00	742
112.00	1734	187.00	7733	266.00	446	438.00	530
113.00	312	188.00	1140	268.00	308	439.00	268
114.00	238	189.00	2380	269.00	93	440.00	552

Report Date: 15-Feb-2022 08:33:19 Chrom Revision: 2.3 18-Jan-2022 20:25:40
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1400.D\MSSemi_HP23264.rslt\spectra.d
Injection Date: 14-Feb-2022 11:55:30
Spectrum: Tune Spec :Average 304-306(5.01-5.02) Bgrd 301(4.99)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 294

m/z	Y	m/z	Y	m/z	Y	m/z	Y
115.00	282	190.00	322	271.00	384	441.00	18776
116.00	2153	191.00	712	272.00	217	442.00	117592
117.00	31408	192.00	2963	273.00	3382	443.00	21888
118.00	1243	193.00	3431	274.00	9159	444.00	2014
119.00	816	194.00	139	275.00	47400	445.00	253
120.00	212	195.00	530	276.00	7398		
122.00	2088	196.00	6292	277.00	4824		

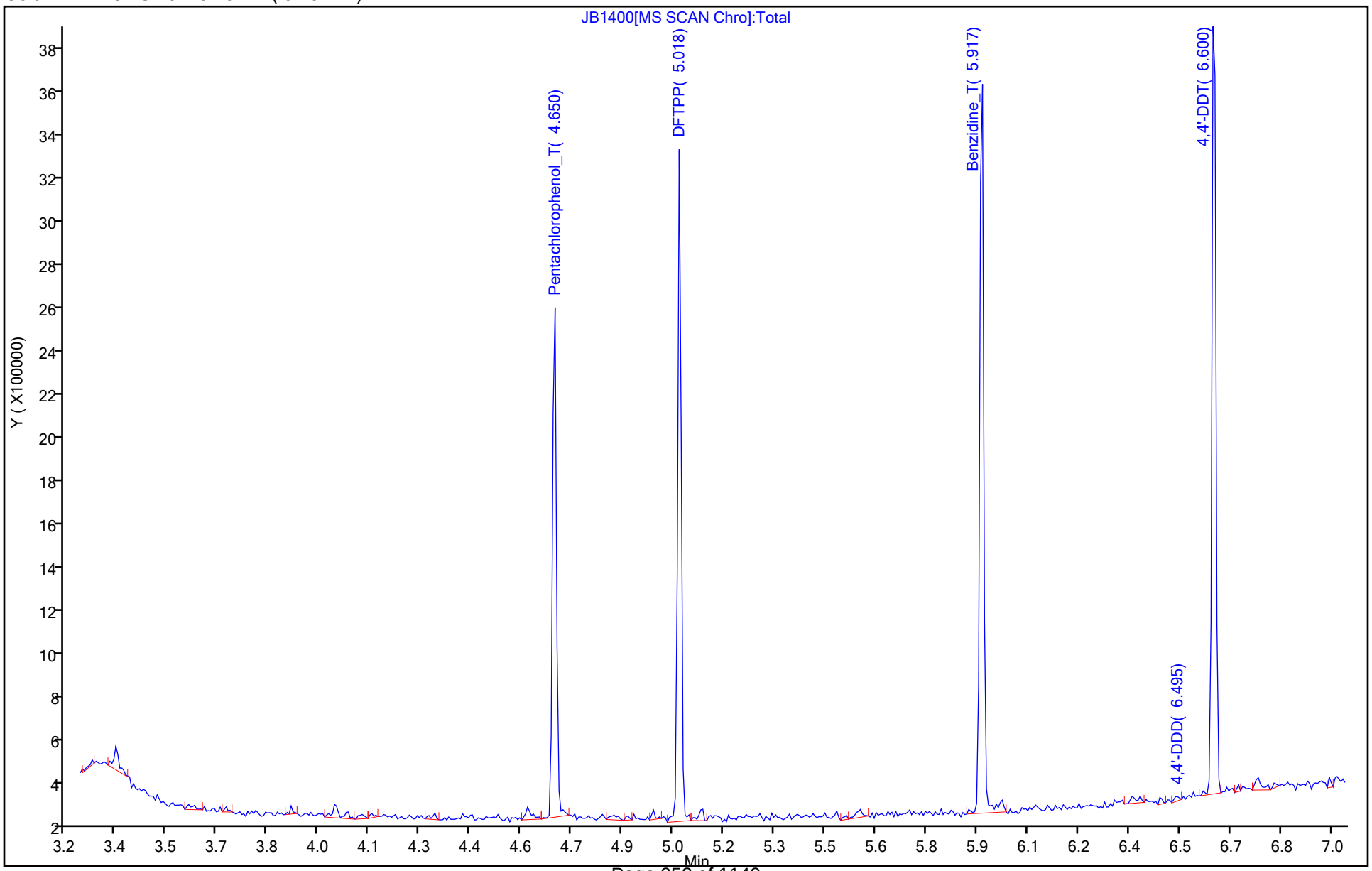
Report Date: 15-Feb-2022 08:33:19 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1400.D

Injection Date:	14-Feb-2022 11:55:30	Instrument ID:	HP23264	Operator ID:	apb10206
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1400.D				
Injection Date:	14-Feb-2022 11:55:30	Instrument ID:	HP23264		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		

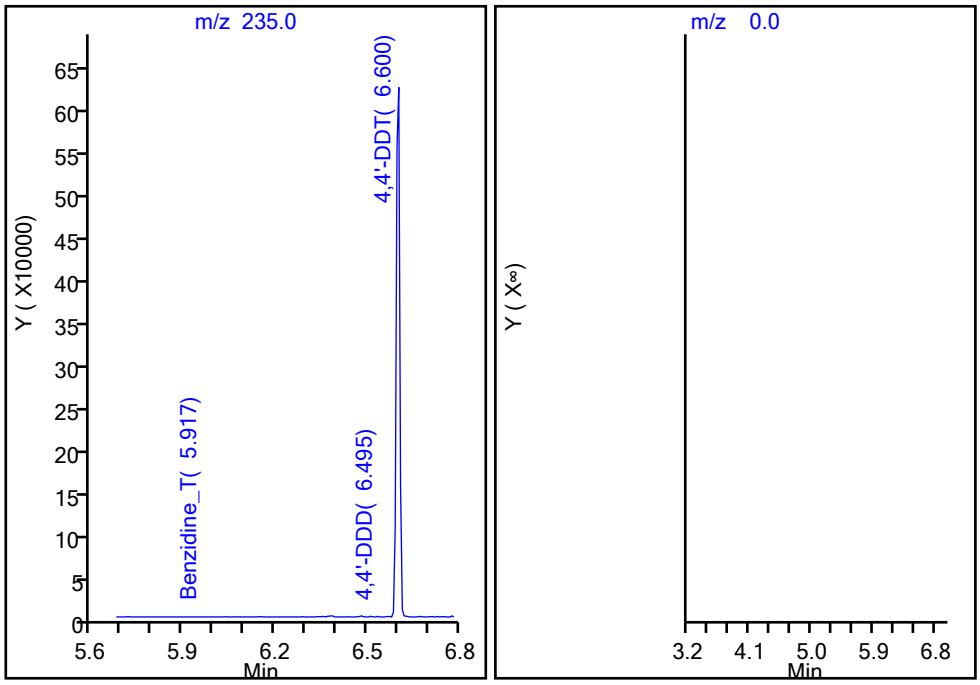
209 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

209 4,4'-DDT, Area = 506566
210 4,4'-DDD, Area = 1476
208 4,4'-DDE, Area = 0

%Breakdown: 0.29%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

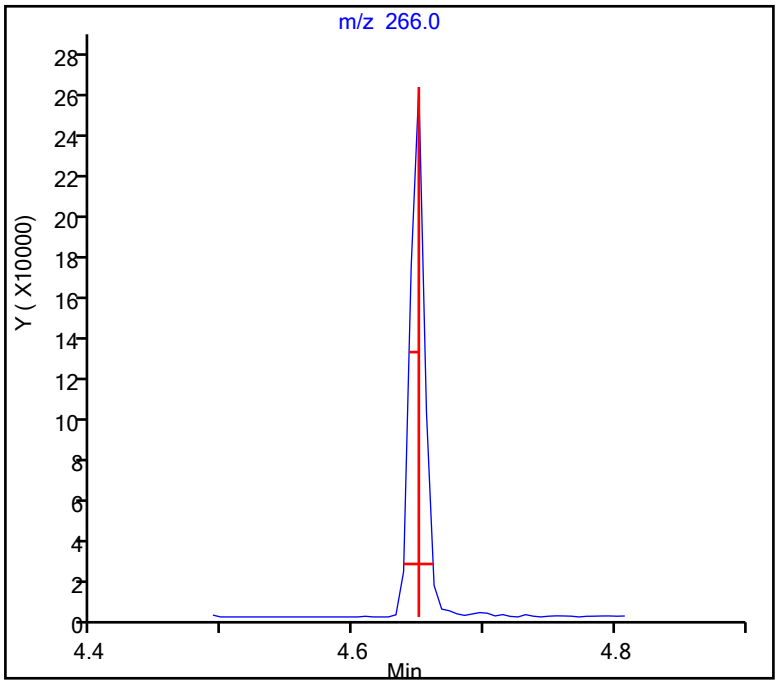
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1400.D
Injection Date: 14-Feb-2022 11:55:30 Instrument ID: HP23264
Lims ID: DFTPP
Client ID:
Operator ID: apb10206 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI

10 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 0.92, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

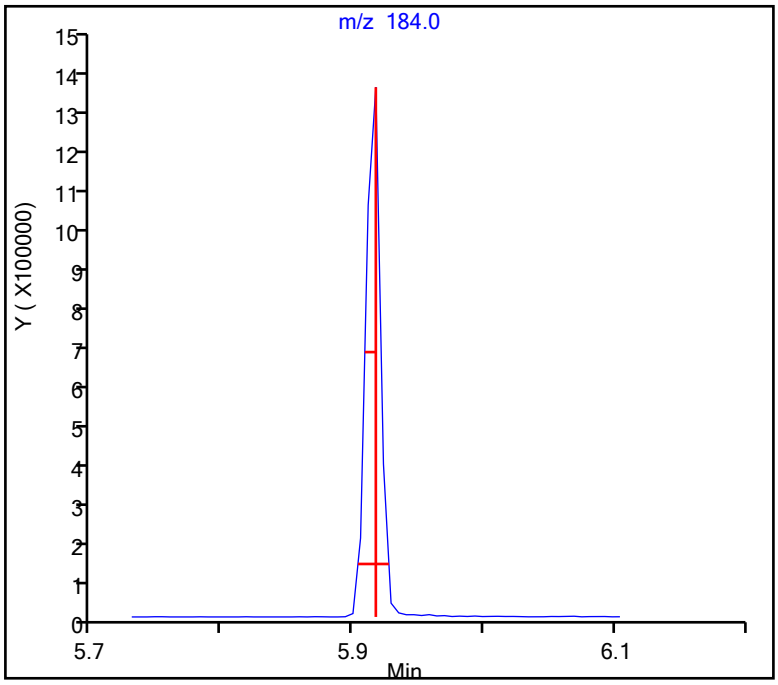
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220214-50350.b\JB1400.D
Injection Date: 14-Feb-2022 11:55:30 Instrument ID: HP23264
Lims ID: DFTPP
Client ID:
Operator ID: apb10206 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI

14 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.71, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0950.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 09-Mar-2022 16:50:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Operator ID: mem41592 Instrument ID: HP23264

Method: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\MSSemi_HP23264.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 09-Mar-2022 21:44:31 Calib Date: 23-Feb-2022 15:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23264\20220223-51020.b\JB2307.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: mcgowanm Date: 09-Mar-2022 17:58:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
10 Pentachlorophenol_T	266	4.568	4.568	0.000	90	177923	NR	NR	
14 Benzidine_T	184	5.835	5.835	0.000	99	933545	NR	NR	
207 DFTPP									
208 4,4'-DDE	246		5.993					ND	U
210 4,4'-DDD	235		6.273					ND	U
209 4,4'-DDT	235	6.524	6.524	0.000	97	466406	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
U - Marked Undetected

Reagents:

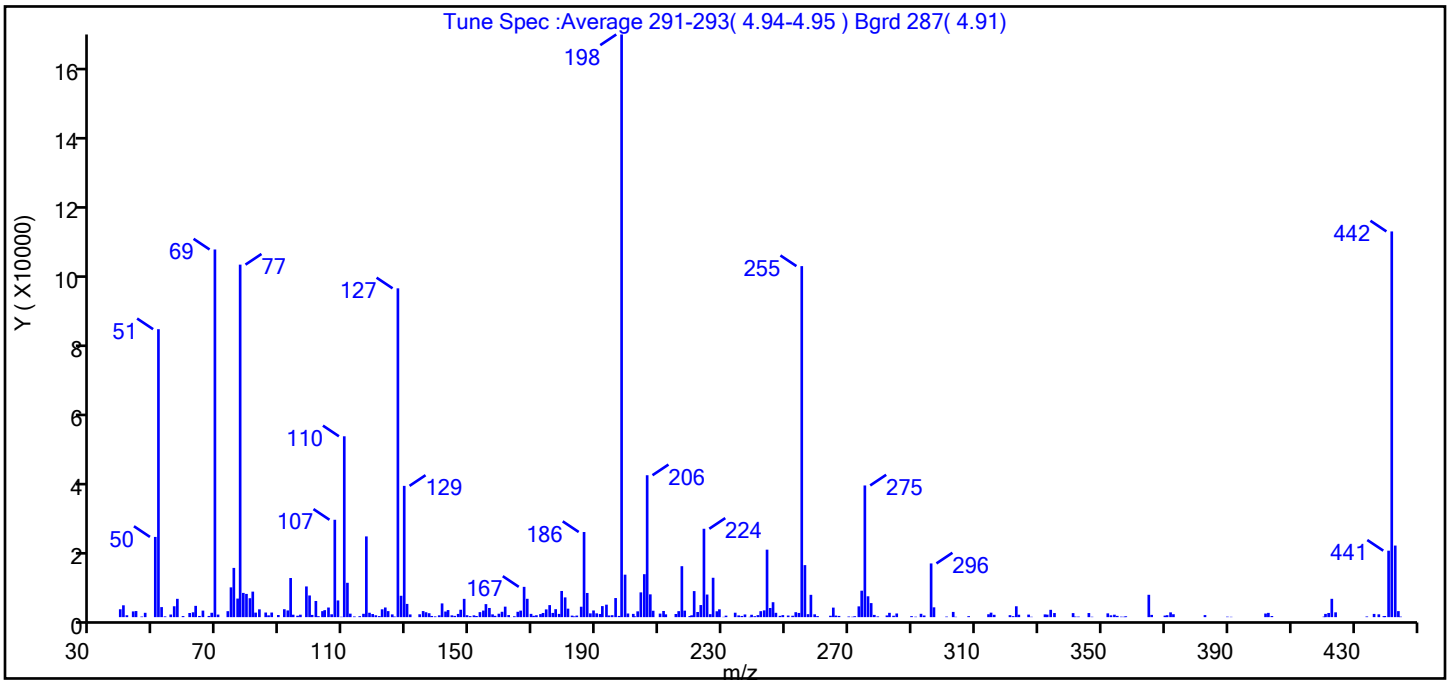
MSS_RVDFTPP_00009 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0950.D
Injection Date: 09-Mar-2022 16:50:30 Instrument ID: HP23264
Lims ID: DFTPP
Client ID:
Operator ID: mem41592 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI
Tune Method: DFTPP Method 8270D, BP 198

207 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (151.1)
51	10-80% of the base peak	49.4
68	<2% of mass 69	0.7 (1.2)
69	Present	63.1
70	<2% of mass 69	0.4 (0.7)
127	10-80% of the base peak	56.4
197	<2% of mass 198	0.2
199	5-9% of mass 198	7.3
275	10-60% of the base peak	22.6
365	>1% of mass 198	3.8
441	present but <24% of mass 442	11.4 (17.2)
442	base peak, or >50% of 198	66.2
443	15-24% of mass 442	12.3 (18.6)

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0950.D\MSSemi_HP23264.rslt\spectra.d
Injection Date: 09-Mar-2022 16:50:30
Spectrum: Tune Spec :Average 291-293(4.94-4.95) Bgrd 287(4.91)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 280

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	2168	124.00	1660	195.00	531	276.00	5740
40.00	3261	125.00	756	196.00	5254	277.00	3865
41.00	521	126.00	174	197.00	339	278.00	616
43.00	1578	127.00	90472	198.00	160320	279.00	204
44.00	1677	128.00	5879	199.00	11689	282.00	464
46.00	169	129.00	36120	200.00	998	283.00	1186
47.00	1194	130.00	3642	202.00	898	284.00	384
50.00	22072	131.00	748	202.00	240	285.00	1010
51.00	79232	132.00	6	203.00	1599	290.00	278
52.00	2764	134.00	788	204.00	6818	291.00	125
53.00	208	135.00	1671	205.00	11818	293.00	920
55.00	720	136.00	1348	206.00	39048	294.00	452
56.00	2995	137.00	1084	207.00	6271	296.00	14778
57.00	5040	138.00	328	208.00	1757	297.00	2702
59.00	295	139.00	207	210.00	974	301.00	160
61.00	1139	140.00	499	211.00	1695	303.00	1439
62.00	1335	141.00	3779	212.00	771	304.00	99
63.00	3105	142.00	1547	215.00	864	308.00	269
64.00	328	143.00	1948	216.00	1654	314.00	793
65.00	1799	144.00	495	217.00	14021	315.00	1233
67.00	329	145.00	349	218.00	1788	316.00	642
68.00	1202	146.00	884	220.00	306	321.00	543
69.00	101160	147.00	2037	220.00	506	322.00	271
70.00	704	148.00	5032	221.00	7167	323.00	2995
73.00	1646	149.00	531	222.00	1413	324.00	665
74.00	8192	150.00	284	223.00	3329	327.00	699
75.00	13549	151.00	493	224.00	24320	328.00	105
76.00	5109	152.00	318	225.00	6219	332.00	758
77.00	96992	153.00	1379	226.00	821	333.00	688
78.00	6669	154.00	1804	227.00	10835	334.00	2014
79.00	6392	155.00	3587	228.00	1615	335.00	1130
80.00	5207	156.00	2523	229.00	2155	341.00	1110
81.00	7022	157.00	768	230.00	74	342.00	155

Report Date: 09-Mar-2022 21:44:31 Chrom Revision: 2.3 16-Feb-2022 17:52:00
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0950.D\MSSemi_HP23264.rslt\spectra.d
Injection Date: 09-Mar-2022 16:50:30
Spectrum: Tune Spec :Average 291-293(4.94-4.95) Bgrd 287(4.91)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 280

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	1245	158.00	365	231.00	414	343.00	148
83.00	2149	159.00	939	234.00	1220	346.00	1131
85.00	1271	160.00	1477	235.00	472	347.00	111
86.00	495	161.00	2888	236.00	330	352.00	1046
87.00	1267	162.00	569	237.00	740	353.00	508
89.00	583	163.00	15	239.00	93	354.00	672
91.00	2177	164.00	240	239.00	654	355.00	349
92.00	1850	165.00	1473	240.00	266	356.00	132
93.00	10767	166.00	1795	241.00	557	357.00	115
94.00	672	167.00	8335	242.00	1643	358.00	241
95.00	392	168.00	5049	243.00	1863	365.00	6151
96.00	672	169.00	903	244.00	18568	366.00	620
98.00	8450	170.00	368	245.00	2514	370.00	427
99.00	5966	171.00	519	246.00	4107	371.00	535
100.00	611	172.00	841	247.00	1194	372.00	1316
101.00	4449	173.00	1148	248.00	355	373.00	800
102.00	257	174.00	2134	249.00	556	383.00	563
103.00	1648	175.00	3312	251.00	441	390.00	135
104.00	1924	176.00	1163	252.00	387	391.00	91
105.00	2649	177.00	2192	253.00	1362	402.00	990
106.00	784	178.00	890	254.00	1156	403.00	1173
107.00	26792	179.00	7204	255.00	96584	404.00	311
108.00	4600	180.00	5435	256.00	14312	420.00	153
109.00	112	181.00	2335	257.00	819	421.00	893
110.00	49760	182.00	419	258.00	6141	422.00	1148
111.00	9453	183.00	205	259.00	779	423.00	5041
112.00	960	184.00	433	260.00	287	424.00	1323
113.00	191	185.00	2864	264.00	385	434.00	190
115.00	264	186.00	23424	265.00	2624	436.00	891
116.00	920	187.00	6653	266.00	426	438.00	779
117.00	22216	188.00	1034	267.00	336	440.00	268
118.00	1210	189.00	1837	270.00	175	440.00	317
119.00	857	190.00	1042	271.00	111	441.00	18288
120.00	509	191.00	870	272.00	258	442.00	106128

Report Date: 09-Mar-2022 21:44:31 Chrom Revision: 2.3 16-Feb-2022 17:52:00
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0950.D\MSSemi_HP23264.rslt\spectra.d
Injection Date: 09-Mar-2022 16:50:30
Spectrum: Tune Spec :Average 291-293(4.94-4.95) Bgrd 287(4.91)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 280

m/z	Y	m/z	Y	m/z	Y	m/z	Y
121.00	291	192.00	3041	273.00	2968	443.00	19696
122.00	2159	193.00	3431	274.00	7278	444.00	1657
123.00	2657	194.00	463	275.00	36232	445.00	144

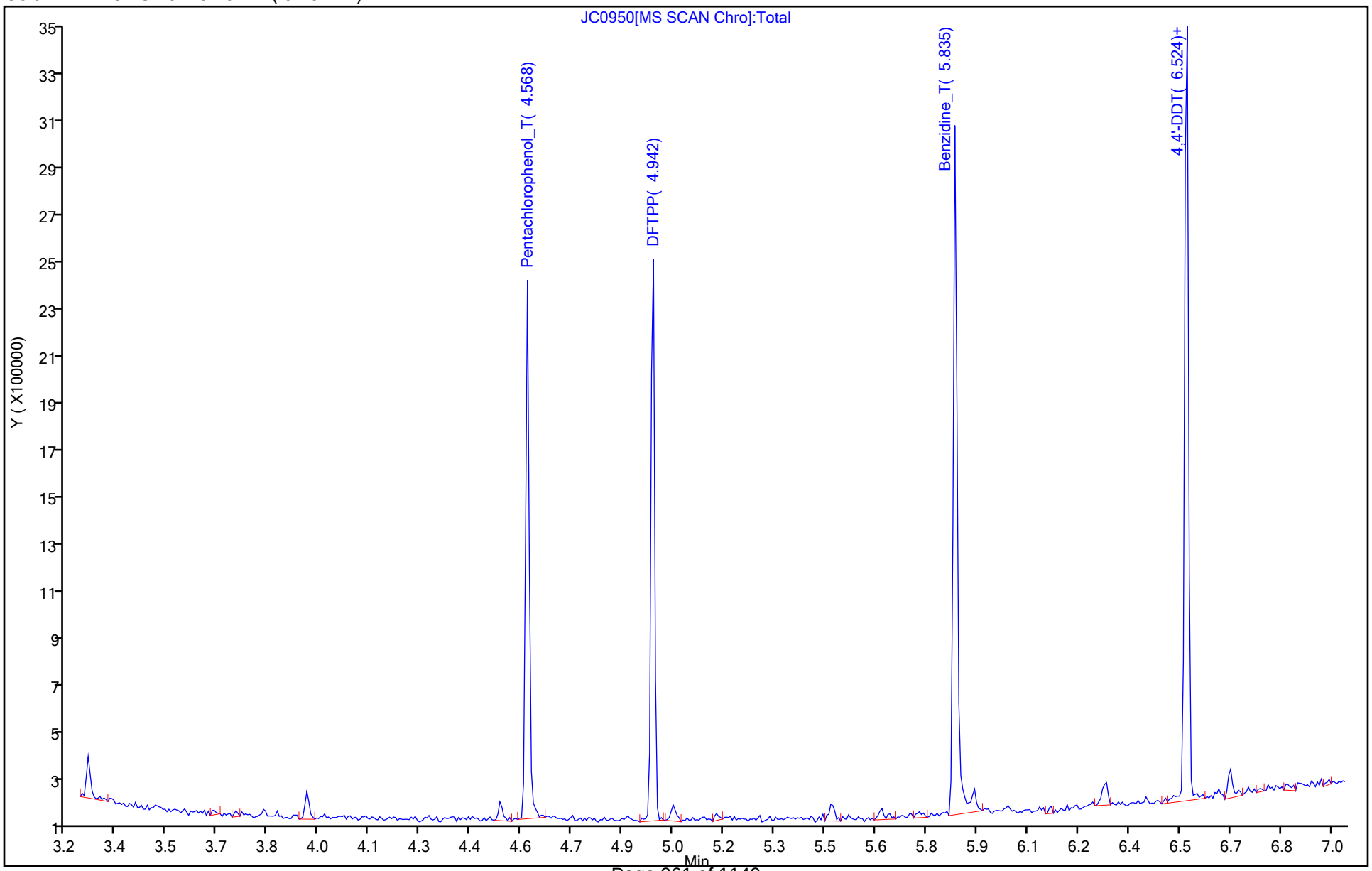
Report Date: 09-Mar-2022 21:44:31 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0950.D

Injection Date:	09-Mar-2022 16:50:30	Instrument ID:	HP23264	Operator ID:	mem41592
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)

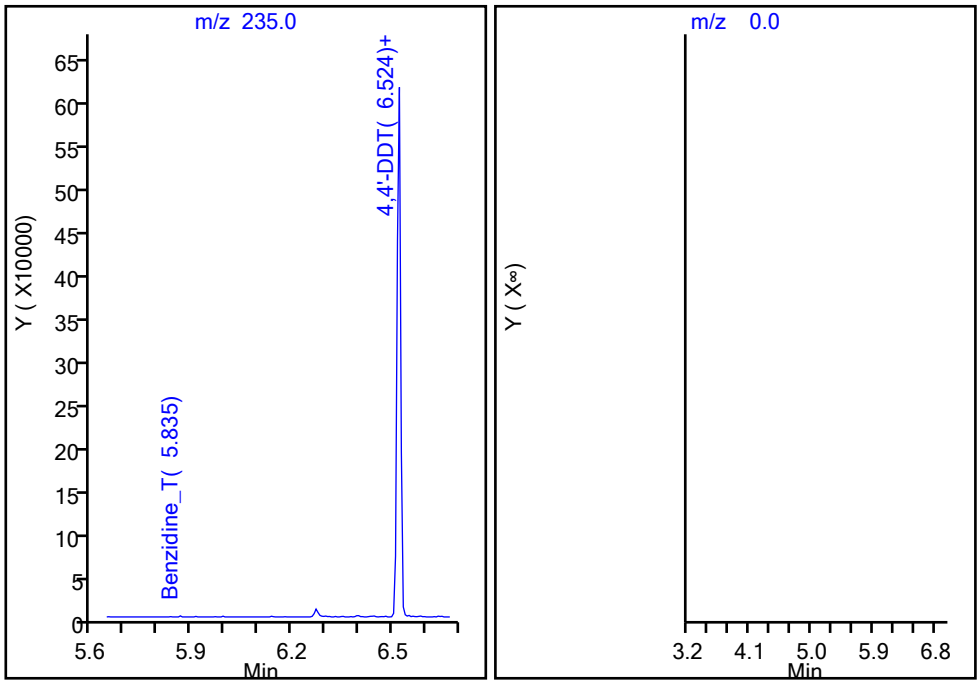


Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0950.D
Injection Date: 09-Mar-2022 16:50:30 Instrument ID: HP23264
Lims ID: DFTPP
Client ID:
Operator ID: mem41592 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI

209 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

209 4,4'-DDT, Area = 466406
210 4,4'-DDD, Area = 0
208 4,4'-DDE, Area = 0

%Breakdown: 0.00%, <= 20.00%
Passed

Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

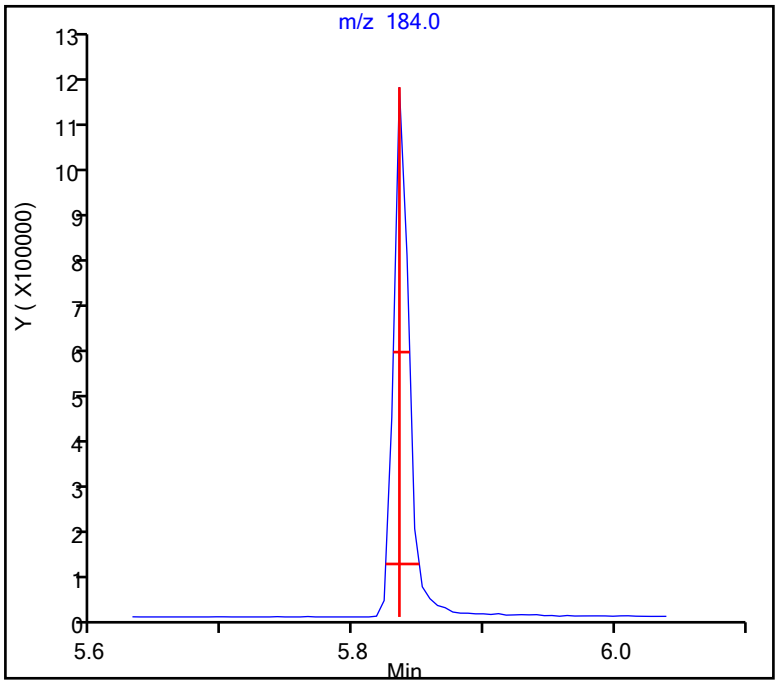
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0950.D
Injection Date: 09-Mar-2022 16:50:30 Instrument ID: HP23264
Lims ID: DFTPP
Client ID:
Operator ID: mem41592 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI

14 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.36, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

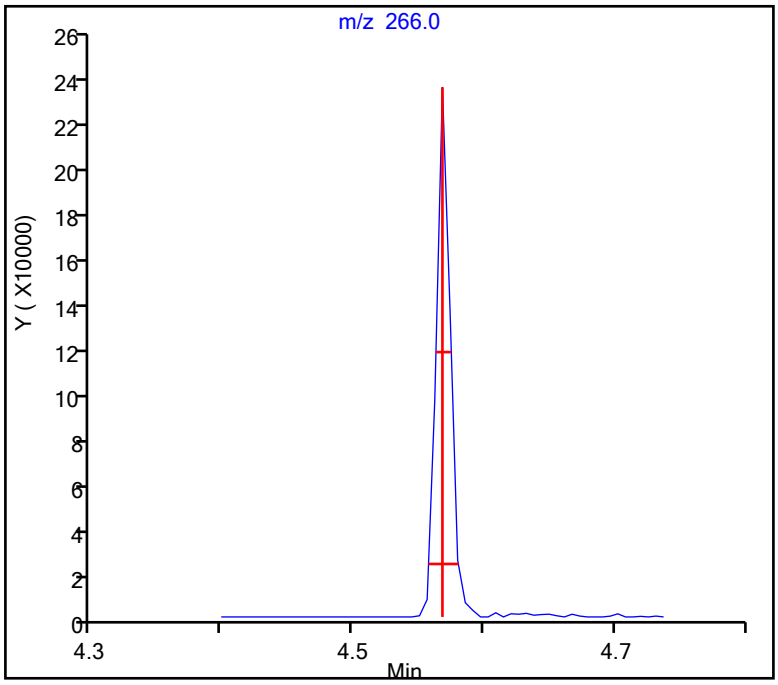
Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0950.D
Injection Date: 09-Mar-2022 16:50:30 Instrument ID: HP23264
Lims ID: DFTPP
Client ID:
Operator ID: mem41592 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP23264 Limit Group: MSSV - 8270D_E LVI

10 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.09, Max. Tailing <= 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-231598/1-A

Matrix: Water Lab File ID: JC0952.D

Analysis Method: 8270D Date Collected:

Extract. Method: 3510C Date Extracted: 03/09/2022 09:52

Sample wt/vol: 250(mL) Date Analyzed: 03/09/2022 17:59

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 231885 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
105-67-9	2,4-Dimethylphenol	ND		10	3.0
51-28-5	2,4-Dinitrophenol	ND		30	14
95-57-8	2-Chlorophenol	ND		2.0	0.50
86-74-8	Carbazole	ND		2.0	0.50
108-95-2	Phenol	ND		2.0	0.50

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	84		10-150
321-60-8	2-Fluorobiphenyl (Surr)	65		44-120
367-12-4	2-Fluorophenol (Surr)	42		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	68		25-125
4165-62-2	Phenol-d5 (Surr)	27		10-120
1718-51-0	p-Terphenyl-d14 (Surr)	87		37-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0952.D
Lims ID: MB 410-231598/1-A
Client ID:
Sample Type: MB
Inject. Date: 09-Mar-2022 17:59:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-231598/1-A
Operator ID: mem41592 Instrument ID: HP23264

Method: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\MSSemi_HP23264.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Mar-2022 13:10:33 Calib Date: 23-Feb-2022 15:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23264\20220223-51020.b\JB2307.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1622

First Level Reviewer: bauera Date: 10-Mar-2022 12:48:24

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	2 N-Nitrosodimethylamine	74		2.016					ND	7
	3 Pyridine	79		2.051					ND	
$	9 2-Fluorophenol	112	3.178	3.184	-0.006	95	1177713	50.2	21.1	
	13 Benzaldehyde	77		4.019					ND	7
$	15 Phenol-d5	99	4.077	4.083	-0.006	96	1067875	50.1	13.5	
	16 Phenol	94		4.094					ND	7
	18 Bis(2-chloroethyl)ether	93		4.176					ND	7
	19 2-Chlorophenol	128		4.235					ND	7
	21 1,3-Dichlorobenzene	146		4.381					ND	
*	22 1,4-Dichlorobenzene-d4	152	4.433	4.433	0.000	97	180110	5.00	5.00	
	23 1,4-Dichlorobenzene	146		4.451					ND	
	26 Benzyl alcohol	108		4.562					ND	7
	27 1,2-Dichlorobenzene	146		4.597					ND	7
	29 2-Methylphenol	108		4.678					ND	
	30 2,2'-oxybis[1-chloropropane]	45		4.696					ND	7
	32 Acetophenone	105		4.818					ND	7
	33 N-Nitrosodi-n-propylamine	70		4.818					ND	7
	34 4-Methylphenol	108		4.824					ND	7
	37 Hexachloroethane	117		4.918					ND	7
$	39 Nitrobenzene-d5	82	4.964	4.964	0.000	89	1219377	25.1	17.0	
	40 Nitrobenzene	77		4.982					ND	U
	42 Isophorone	82		5.216					ND	7
	43 2-Nitrophenol	139		5.291					ND	7
	44 2,4-Dimethylphenol	107		5.332					ND	7
	47 Bis(2-chloroethoxy)methane	93		5.426					ND	
	49 2,4-Dichlorophenol	162		5.525					ND	
	50 1,2,4-Trichlorobenzene	180		5.601					ND	
*	52 Naphthalene-d8	136	5.653	5.653	0.000	99	689091	5.00	5.00	
	53 Naphthalene	128		5.677					ND	7
	56 4-Chloroaniline	127		5.729					ND	7
	59 Hexachlorobutadiene	225		5.794					ND	
	62 Caprolactam	113		6.051					ND	7

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
65 4-Chloro-3-methylphenol	107		6.208					ND	7
67 2-Methylnaphthalene	142		6.337					ND	7
71 Hexachlorocyclopentadiene	237		6.488					ND	7
70 1,2,4,5-Tetrachlorobenzene	216		6.500					ND	
79 2,4,6-Trichlorophenol	196		6.611					ND	
80 2,4,5-Trichlorophenol	196		6.652					ND	
$ 81 2-Fluorobiphenyl (Surr)	172	6.693	6.687	0.000	99	1561399	25.1	16.4	
83 1,1'-Biphenyl	154		6.786					ND	7
84 2-Chloronaphthalene	162		6.804					ND	7
87 2-Nitroaniline	138		6.903					ND	7
90 Dimethyl phthalate	163		7.084					ND	7
92 2,6-Dinitrotoluene	165		7.137					ND	U
93 Acenaphthylene	152		7.201					ND	7
95 3-Nitroaniline	138		7.294					ND	7
* 96 Acenaphthene-d10	164	7.329	7.335	-0.006	97	352048	5.00	5.00	
97 Acenaphthene	153		7.364					ND	7
98 2,4-Dinitrophenol	184		7.393					ND	7
100 4-Nitrophenol	109		7.481					ND	7
102 2,4-Dinitrotoluene	165		7.522					ND	7
101 Dibenzofuran	168		7.528					ND	7
105 2,3,4,6-Tetrachlorophenol	232		7.650					ND	7
106 2-Naphthylamine	143		7.680					ND	7
107 Diethyl phthalate	149		7.756					ND	7
108 Fluorene	166		7.855					ND	7
110 4-Chlorophenyl phenyl ether	204		7.861					ND	7
112 4-Nitroaniline	138		7.878					ND	
113 4,6-Dinitro-2-methylphenol	198		7.907					ND	7
114 N-Nitrosodiphenylamine	169		7.972					ND	7
115 1,2-Diphenylhydrazine	77		8.012					ND	
$ 116 2,4,6-Tribromophenol	330	8.083	8.082	-0.006	88	577145	50.2	42.2	
122 4-Bromophenyl phenyl ether	248		8.328					ND	
124 Hexachlorobenzene	284		8.374					ND	7
125 Dimethoate	87		8.421					ND	7
126 Atrazine	200		8.485					ND	7
127 Pentachlorophenol	266		8.567					ND	7
* 131 Phenanthrene-d10	188	8.742	8.748	-0.006	97	701843	5.00	5.00	
132 Phenanthrene	178		8.772					ND	7
135 Anthracene	178		8.818					ND	7
136 Carbazole	167		8.976					ND	7
138 Di-n-butyl phthalate	149		9.320					ND	7
144 Fluoranthene	202		9.904					ND	7
145 Benzidine	184		10.044					ND	7
* 146 Pyrene-d10 (IS)	212	10.097	10.103	-0.006	96	644315	5.00	5.00	
147 Pyrene	202		10.120					ND	U
$ 148 p-Terphenyl-d14	244	10.278	10.278	-0.006	97	2290182	25.1	21.8	
153 Butyl benzyl phthalate	149		10.798					ND	7
157 3,3'-Dichlorobenzidine	252		11.387					ND	7
156 Benzo[a]anthracene	228	11.393	11.398	-0.012	8	4326		0.0322	
159 Chrysene	228	11.428	11.446	-0.018	6	5243		0.0414	
160 Bis(2-ethylhexyl) phthalate	149		11.481					ND	7
162 Di-n-octyl phthalate	149		12.357					ND	7
164 Benzo[b]fluoranthene	252	12.812	12.806	-0.006	81	9141		0.0670	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
165 Benzo[k]fluoranthene	252	12.847	12.853	-0.012	14	6109		0.0470	
166 Benzo[a]pyrene	252	13.268	13.273	-0.011	41	4759		0.0398	M
* 167 Perylene-d12	264	13.355	13.361	-0.006	98	541028	5.00	5.00	
171 Indeno[1,2,3-cd]pyrene	276	14.978	14.978	-0.006	1	2167		0.0199	
172 Dibenz(a,h)anthracene	278	15.025	15.024	-0.006	1	2227		0.0193	
173 Benzo[g,h,i]perylene	276	15.434	15.433	-0.006	1	2781		0.0234	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSS_RV8270_IS_00022 Amount Added: 20.00 Units: uL Run Reagent

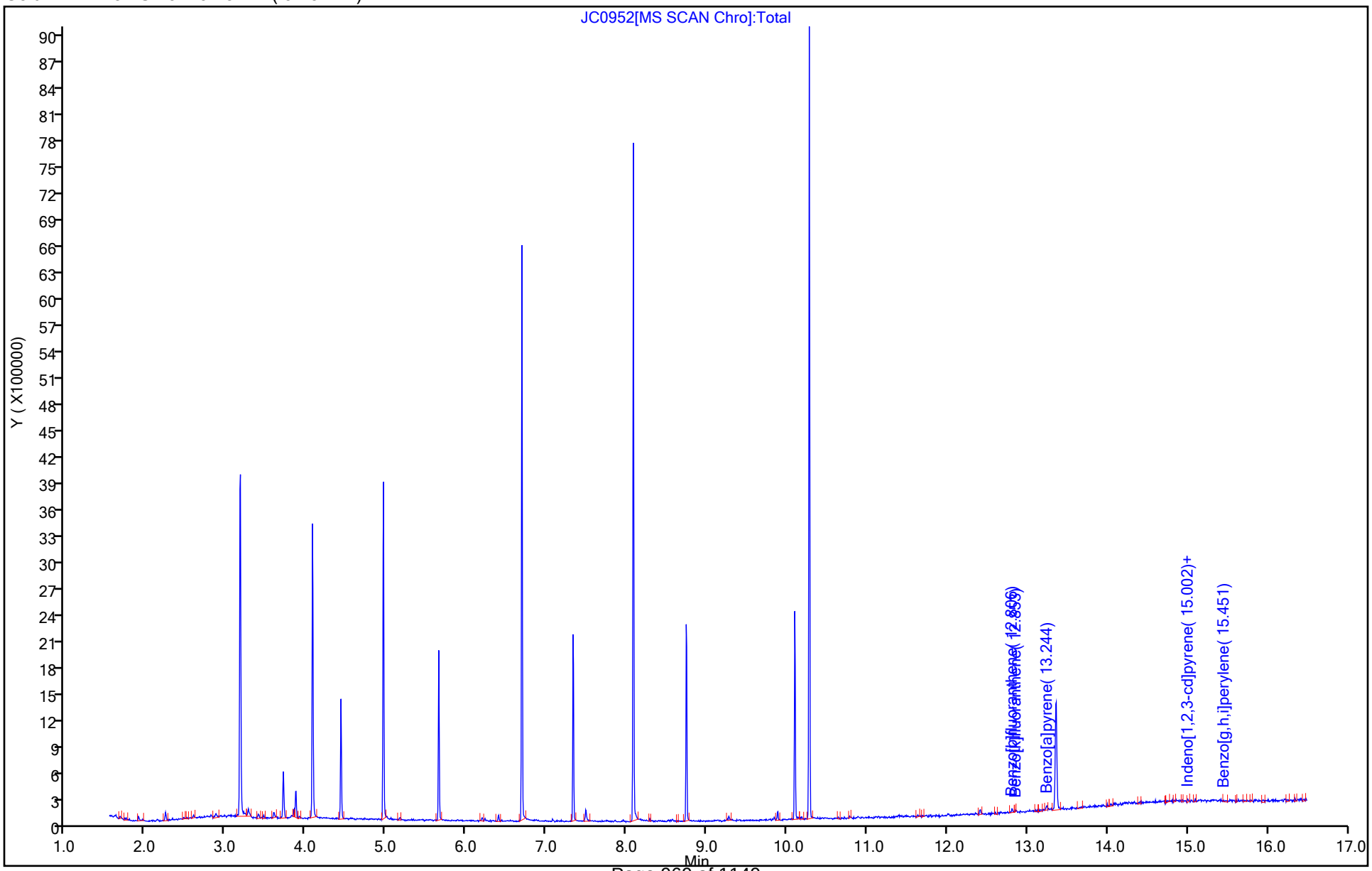
Report Date: 10-Mar-2022 13:10:39 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0952.D

Injection Date:	09-Mar-2022 17:59:30	Instrument ID:	HP23264	Operator ID:	mem41592
Lims ID:	MB 410-231598/1-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0952.D
Lims ID: MB 410-231598/1-A
Client ID:
Sample Type: MB
Inject. Date: 09-Mar-2022 17:59:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-231598/1-A
Operator ID: mem41592 Instrument ID: HP23264

Method: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\MSSemi_HP23264.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Mar-2022 13:10:33 Calib Date: 23-Feb-2022 15:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23264\20220223-51020.b\JB2307.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1622

First Level Reviewer: bauera Date: 10-Mar-2022 12:48:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 2-Fluorophenol	50.2	21.1	42.12
$ 15 Phenol-d5	50.1	13.5	27.01
$ 39 Nitrobenzene-d5	25.1	17.0	67.75
$ 81 2-Fluorobiphenyl (Surr)	25.1	16.4	65.15
$ 116 2,4,6-Tribromophenol	50.2	42.2	84.23
$ 148 p-Terphenyl-d14	25.1	21.8	86.66

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-231598/2-A

Matrix: Water Lab File ID: JC0953.D

Analysis Method: 8270D Date Collected:

Extract. Method: 3510C Date Extracted: 03/09/2022 09:52

Sample wt/vol: 250(mL) Date Analyzed: 03/09/2022 18:21

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 231885 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
105-67-9	2,4-Dimethylphenol	46.5		10	3.0
51-28-5	2,4-Dinitrophenol	88.4		30	14
95-57-8	2-Chlorophenol	46.0		2.0	0.50
86-74-8	Carbazole	48.2		2.0	0.50
108-95-2	Phenol	29.1		2.0	0.50

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	85		10-150
321-60-8	2-Fluorobiphenyl (Surr)	73		44-120
367-12-4	2-Fluorophenol (Surr)	59		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	75		25-125
4165-62-2	Phenol-d5 (Surr)	43		10-120
1718-51-0	p-Terphenyl-d14 (Surr)	91		37-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0953.D
Lims ID: LCS 410-231598/2-A
Client ID:
Sample Type: LCS
Inject. Date: 09-Mar-2022 18:21:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-231598/2-A
Operator ID: mem41592 Instrument ID: HP23264

Method: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\MSSemi_HP23264.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Mar-2022 13:10:33 Calib Date: 23-Feb-2022 15:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23264\20220223-51020.b\JB2307.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1622

First Level Reviewer: bauera Date: 10-Mar-2022 12:49:00

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	2 N-Nitrosodimethylamine	74	1.998	2.016	-0.018	95	329706	12.5	7.04	
	3 Pyridine	79	2.039	2.051	-0.012	94	880134	25.0	12.5	
$	9 2-Fluorophenol	112	3.178	3.184	-0.006	95	1687282	50.2	29.8	
	13 Benzaldehyde	77	4.013	4.019	-0.007	94	623292	12.5	9.74	
$	15 Phenol-d5	99	4.077	4.083	-0.006	96	1714586	50.1	21.4	
	16 Phenol	94	4.088	4.094	-0.006	83	598459	12.5	7.27	
	18 Bis(2-chloroethyl)ether	93	4.170	4.176	-0.006	90	695320	12.5	10.9	
	19 2-Chlorophenol	128	4.229	4.235	-0.006	93	603204	12.5	11.5	
	21 1,3-Dichlorobenzene	146	4.375	4.381	-0.006	94	387690	12.5	7.20	
*	22 1,4-Dichlorobenzene-d4	152	4.433	4.433	0.000	97	182851	5.00	5.00	
	23 1,4-Dichlorobenzene	146	4.450	4.450	-0.001	91	415153	12.5	7.39	
	26 Benzyl alcohol	108	4.561	4.562	-0.001	88	416909	12.5	11.1	
	27 1,2-Dichlorobenzene	146	4.591	4.597	-0.006	95	432632	12.5	8.05	
	29 2-Methylphenol	108	4.672	4.672	-0.006	96	599788	12.5	11.0	
	30 2,2'-oxybis[1-chloropropane]	45	4.690	4.696	-0.006	95	1076493	12.5	9.52	
	32 Acetophenone	105	4.812	4.818	-0.006	90	970791	12.5	10.6	
	33 N-Nitrosodi-n-propylamine	70	4.812	4.818	-0.006	86	603369	12.5	10.3	
	34 4-Methylphenol	108	4.818	4.824	-0.006	92	586714	12.5	10.0	
	37 Hexachloroethane	117	4.918	4.918	0.000	97	130413	12.5	4.80	
$	39 Nitrobenzene-d5	82	4.958	4.964	-0.006	89	1405414	25.1	18.8	
	40 Nitrobenzene	77	4.976	4.982	-0.006	86	820113	12.5	10.8	
	42 Isophorone	82	5.210	5.216	-0.006	98	1485145	12.5	10.7	
	43 2-Nitrophenol	139	5.285	5.291	-0.006	94	313152	12.5	11.2	
	44 2,4-Dimethylphenol	107	5.332	5.332	0.000	98	714875	12.5	11.6	
	47 Bis(2-chloroethoxy)methane	93	5.420	5.426	-0.006	94	904180	12.5	11.0	
	49 2,4-Dichlorophenol	162	5.525	5.525	0.000	96	511683	12.5	12.0	
	50 1,2,4-Trichlorobenzene	180	5.595	5.601	-0.006	93	345969	12.5	7.64	
*	52 Naphthalene-d8	136	5.653	5.653	0.000	99	715490	5.00	5.00	
	53 Naphthalene	128	5.671	5.677	-0.006	98	1432666	12.5	9.81	
	56 4-Chloroaniline	127	5.723	5.729	-0.006	93	665836	12.5	10.3	
	59 Hexachlorobutadiene	225	5.793	5.794	-0.001	97	103960	12.5	4.06	
	62 Caprolactam	113	6.039	6.050	-0.012	76	51536	12.5	2.89	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
65 4-Chloro-3-methylphenol	107	6.202	6.208	-0.006	94	575136	12.5	11.0	
67 2-Methylnaphthalene	142	6.336	6.336	-0.001	91	852089	12.5	8.80	
71 Hexachlorocyclopentadiene	237	6.488	6.483	0.000	95	99844	12.5	3.09	
70 1,2,4,5-Tetrachlorobenzene	216	6.494	6.495	-0.006	98	296468	12.5	7.04	
79 2,4,6-Trichlorophenol	196	6.605	6.606	-0.006	80	350421	12.5	12.3	
80 2,4,5-Trichlorophenol	196	6.652	6.647	0.000	92	375619	12.5	11.7	
$ 81 2-Fluorobiphenyl (Surr)	172	6.687	6.687	-0.006	99	1787156	25.1	18.4	
83 1,1'-Biphenyl	154	6.786	6.781	0.000	96	1093237	12.5	9.79	
84 2-Chloronaphthalene	162	6.798	6.798	-0.006	97	840671	12.5	9.84	
87 2-Nitroaniline	138	6.897	6.898	-0.006	77	362992	12.5	11.3	
90 Dimethyl phthalate	163	7.078	7.078	-0.006	97	560462	12.5	5.34	
92 2,6-Dinitrotoluene	165	7.131	7.131	-0.006	89	262352	12.5	11.2	
93 Acenaphthylene	152	7.195	7.195	-0.006	99	1465242	12.5	10.7	
95 3-Nitroaniline	138	7.294	7.288	0.000	89	292526	12.5	10.6	
* 96 Acenaphthene-d10	164	7.329	7.335	-0.006	95	358204	5.00	5.00	
97 Acenaphthene	153	7.358	7.358	-0.006	97	935270	12.5	10.5	
98 2,4-Dinitrophenol	184	7.393	7.388	0.000	81	316231	25.0	22.1	
100 4-Nitrophenol	109	7.475	7.475	-0.006	92	300797	25.0	15.4	
102 2,4-Dinitrotoluene	165	7.516	7.516	-0.006	89	361592	12.5	11.5	
101 Dibenzofuran	168	7.528	7.522	0.000	95	1276600	12.5	10.6	
105 2,3,4,6-Tetrachlorophenol	232	7.644	7.644	-0.006	77	292157	12.5	11.5	
107 Diethyl phthalate	149	7.755	7.749	-0.001	97	994644	12.5	8.89	
108 Fluorene	166	7.855	7.849	0.000	91	1032875	12.5	10.5	
110 4-Chlorophenyl phenyl ether	204	7.855	7.854	-0.006	94	448054	12.5	10.0	
112 4-Nitroaniline	138	7.872	7.872	-0.006	81	316442	12.5	11.5	
113 4,6-Dinitro-2-methylphenol	198	7.901	7.902	-0.006	74	374345	25.0	24.9	
114 N-Nitrosodiphenylamine	169	7.971	7.966	-0.001	66	774935	10.6	10.2	
115 1,2-Diphenylhydrazine	77	8.006	8.007	-0.006	42	1558159	12.5	11.4	
$ 116 2,4,6-Tribromophenol	330	8.082	8.082	-0.006	87	592339	50.2	42.6	
122 4-Bromophenyl phenyl ether	248	8.322	8.322	-0.006	72	283310	12.5	11.7	
124 Hexachlorobenzene	284	8.368	8.369	-0.006	91	321913	12.5	12.2	
126 Atrazine	200	8.485	8.480	0.000	87	326352	12.5	11.3	
127 Pentachlorophenol	266	8.561	8.561	-0.006	89	428766	25.0	25.5	
* 131 Phenanthrene-d10	188	8.742	8.748	-0.006	97	618417	5.00	5.00	
132 Phenanthrene	178	8.765	8.765	-0.007	99	1598872	12.5	11.5	
135 Anthracene	178	8.812	8.812	-0.006	99	1669559	12.5	12.4	
136 Carbazole	167	8.970	8.970	-0.006	97	1522489	12.5	12.1	
138 Di-n-butyl phthalate	149	9.314	9.314	-0.006	100	1855721	12.5	10.8	
144 Fluoranthene	202	9.898	9.898	-0.006	99	1708077	12.5	12.0	
145 Benzidine	184	10.033	10.039	-0.011	99	366042	25.0	3.66	
* 146 Pyrene-d10 (IS)	212	10.097	10.103	-0.006	97	577818	5.00	5.00	
147 Pyrene	202	10.114	10.114	-0.006	96	1752168	12.5	11.9	
$ 148 p-Terphenyl-d14	244	10.278	10.278	-0.006	97	2147002	25.1	22.7	
153 Butyl benzyl phthalate	149	10.797	10.791	-0.001	96	670537	12.5	8.94	
157 3,3'-Dichlorobenzidine	252	11.381	11.381	-0.006	76	955399	25.0	19.4	
156 Benzo[a]anthracene	228	11.399	11.398	-0.006	100	1444326	12.5	12.0	
159 Chrysene	228	11.440	11.446	-0.006	97	1373729	12.5	12.1	
160 Bis(2-ethylhexyl) phthalate	149	11.481	11.474	0.000	96	1185677	12.5	11.1	
162 Di-n-octyl phthalate	149	12.351	12.351	-0.006	99	2117969	12.5	11.4	
164 Benzo[b]fluoranthene	252	12.812	12.806	-0.006	98	1436609	12.5	11.3	
165 Benzo[k]fluoranthene	252	12.853	12.853	-0.006	99	1549436	12.5	12.8	
166 Benzo[a]pyrene	252	13.273	13.273	-0.006	79	1337230	12.5	12.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 167 Perylene-d12	264	13.355	13.361	-0.006	97	502255	5.00	5.00	
171 Indeno[1,2,3-cd]pyrene	276	14.972	14.978	-0.012	97	1215067	12.5	12.0	
172 Dibenz(a,h)anthracene	278	15.025	15.024	-0.006	95	1283191	12.5	12.0	
173 Benzo[g,h,i]perylene	276	15.422	15.433	-0.018	95	1363817	12.5	12.4	

QC Flag Legend

Processing Flags

Reagents:

MSS_RV8270_IS_00022 Amount Added: 20.00 Units: uL Run Reagent

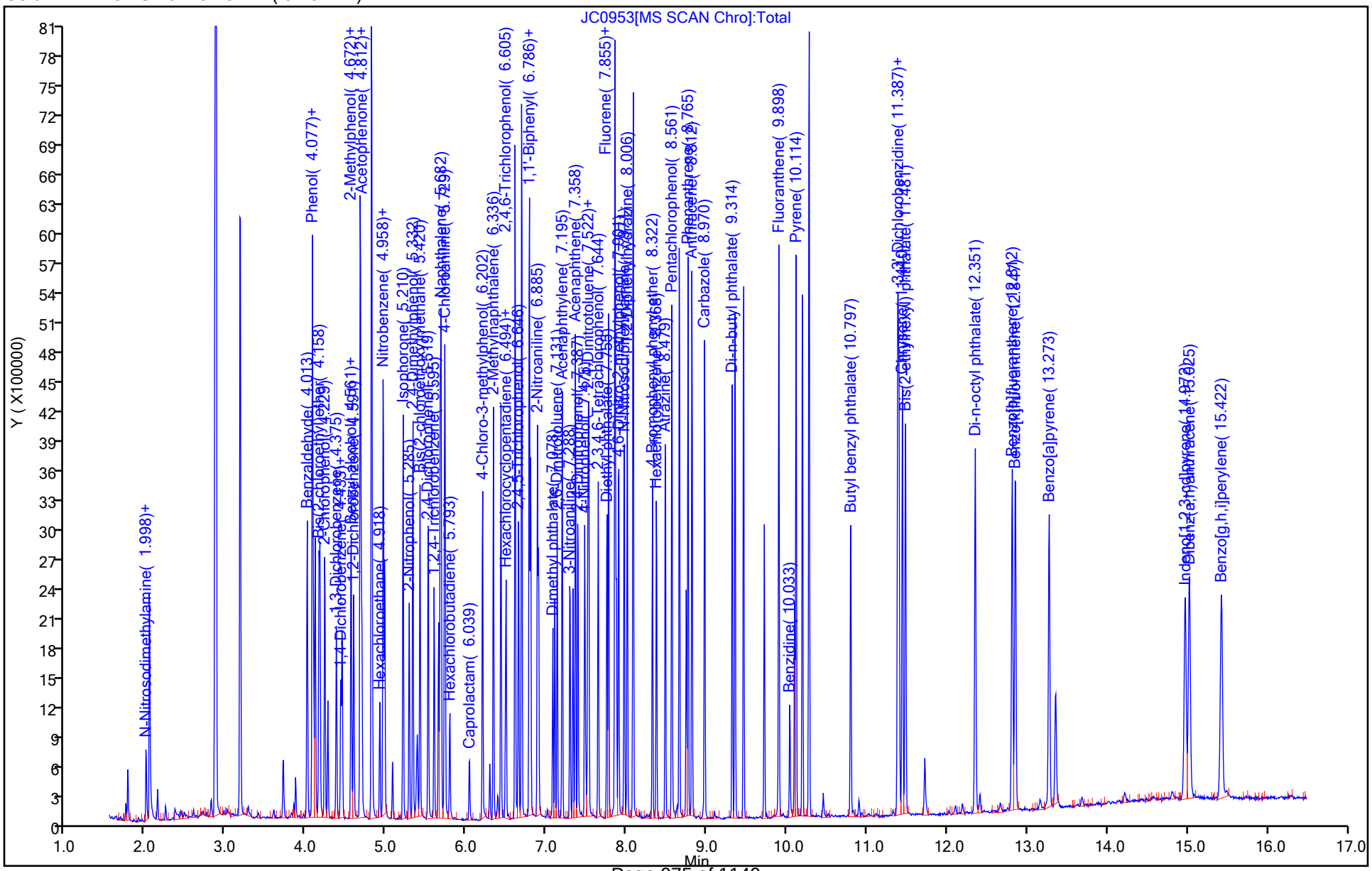
Report Date: 10-Mar-2022 13:10:43 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0953.D

Injection Date:	09-Mar-2022 18:21:30	Instrument ID:	HP23264	Operator ID:	mem41592
Lims ID:	LCS 410-231598/2-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0953.D
Lims ID: LCS 410-231598/2-A
Client ID:
Sample Type: LCS
Inject. Date: 09-Mar-2022 18:21:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-231598/2-A
Operator ID: mem41592 Instrument ID: HP23264

Method: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\MSSemi_HP23264.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Mar-2022 13:10:33 Calib Date: 23-Feb-2022 15:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23264\20220223-51020.b\JB2307.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1622

First Level Reviewer: bauera Date: 10-Mar-2022 12:49:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 2-Fluorophenol	50.2	29.8	59.44
$ 15 Phenol-d5	50.1	21.4	42.72
$ 39 Nitrobenzene-d5	25.1	18.8	75.21
$ 81 2-Fluorobiphenyl (Surr)	25.1	18.4	73.29
$ 116 2,4,6-Tribromophenol	50.2	42.6	84.96
$ 148 p-Terphenyl-d14	25.1	22.7	90.59

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-231598/3-A

Matrix: Water Lab File ID: JC0954.D

Analysis Method: 8270D Date Collected:

Extract. Method: 3510C Date Extracted: 03/09/2022 09:52

Sample wt/vol: 250(mL) Date Analyzed: 03/09/2022 18:43

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 231885 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
105-67-9	2,4-Dimethylphenol	43.4		10	3.0
51-28-5	2,4-Dinitrophenol	89.8		30	14
95-57-8	2-Chlorophenol	42.3		2.0	0.50
86-74-8	Carbazole	46.4		2.0	0.50
108-95-2	Phenol	25.5		2.0	0.50

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	85		10-150
321-60-8	2-Fluorobiphenyl (Surr)	74		44-120
367-12-4	2-Fluorophenol (Surr)	55		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	74		25-125
4165-62-2	Phenol-d5 (Surr)	39		10-120
1718-51-0	p-Terphenyl-d14 (Surr)	89		37-120

Report Date: 10-Mar-2022 13:10:45 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0954.D
Lims ID: LCSD 410-231598/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 09-Mar-2022 18:43:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 410-231598/3-A
Operator ID: mem41592 Instrument ID: HP23264

Method: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\MSSemi_HP23264.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Mar-2022 13:10:33 Calib Date: 23-Feb-2022 15:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23264\20220223-51020.b\JB2307.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1622

First Level Reviewer: bauera Date: 10-Mar-2022 12:49:34

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	2 N-Nitrosodimethylamine	74	2.004	2.016	-0.012	93	346966	12.5	6.30	
	3 Pyridine	79	2.045	2.051	-0.006	96	934027	25.0	11.3	
$	9 2-Fluorophenol	112	3.178	3.184	-0.006	95	1819910	50.2	27.3	
	13 Benzaldehyde	77	4.013	4.019	-0.006	93	747274	12.5	9.93	
$	15 Phenol-d5	99	4.077	4.083	-0.006	96	1825705	50.1	19.4	
	16 Phenol	94	4.089	4.094	-0.005	95	617248	12.5	6.38	
	18 Bis(2-chloroethyl)ether	93	4.170	4.176	-0.006	90	799066	12.5	10.6	
	19 2-Chlorophenol	128	4.229	4.235	-0.006	93	652171	12.5	10.6	
	21 1,3-Dichlorobenzene	146	4.375	4.381	-0.006	95	453704	12.5	7.16	
*	22 1,4-Dichlorobenzene-d4	152	4.433	4.433	0.000	97	215009	5.00	5.00	
	23 1,4-Dichlorobenzene	146	4.445	4.450	-0.006	90	481126	12.5	7.28	
	26 Benzyl alcohol	108	4.562	4.562	0.000	89	447827	12.5	10.1	
	27 1,2-Dichlorobenzene	146	4.591	4.597	-0.006	94	505111	12.5	8.00	
	29 2-Methylphenol	108	4.673	4.672	-0.005	96	637092	12.5	9.95	
	30 2,2'-oxybis[1-chloropropane]	45	4.690	4.696	-0.006	91	1224832	12.5	9.21	
	32 Acetophenone	105	4.813	4.818	-0.005	88	1119511	12.5	10.4	
	33 N-Nitrosodi-n-propylamine	70	4.813	4.818	-0.005	76	670062	12.5	9.68	
	34 4-Methylphenol	108	4.818	4.824	-0.006	95	629332	12.5	9.15	
	37 Hexachloroethane	117	4.918	4.918	0.000	96	148064	12.5	4.63	
$	39 Nitrobenzene-d5	82	4.959	4.964	-0.005	89	1587956	25.1	18.6	
	40 Nitrobenzene	77	4.976	4.982	-0.006	87	895540	12.5	10.2	
	42 Isophorone	82	5.210	5.216	-0.006	99	1695348	12.5	10.6	
	43 2-Nitrophenol	139	5.286	5.291	-0.005	96	357721	12.5	11.2	
	44 2,4-Dimethylphenol	107	5.332	5.332	0.000	99	764783	12.5	10.8	
	47 Bis(2-chloroethoxy)methane	93	5.420	5.426	-0.006	96	1021510	12.5	10.8	
	49 2,4-Dichlorophenol	162	5.519	5.525	-0.006	97	533439	12.5	10.9	
	50 1,2,4-Trichlorobenzene	180	5.595	5.601	-0.006	92	401285	12.5	7.73	
*	52 Naphthalene-d8	136	5.653	5.653	0.000	99	820935	5.00	5.00	
	53 Naphthalene	128	5.671	5.677	-0.006	98	1643983	12.5	9.81	
	56 4-Chloroaniline	127	5.724	5.729	-0.005	94	651029	12.5	8.75	
	59 Hexachlorobutadiene	225	5.794	5.794	0.000	97	124162	12.5	4.23	
	62 Caprolactam	113	6.039	6.050	-0.012	75	49639	12.5	2.42	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
65 4-Chloro-3-methylphenol	107	6.202	6.208	-0.006	94	631482	12.5	10.6	
67 2-Methylnaphthalene	142	6.337	6.336	0.000	90	975677	12.5	8.78	
71 Hexachlorocyclopentadiene	237	6.488	6.483	0.000	96	114781	12.5	3.18	
70 1,2,4,5-Tetrachlorobenzene	216	6.494	6.495	-0.006	98	353007	12.5	7.51	
79 2,4,6-Trichlorophenol	196	6.605	6.606	-0.006	82	396583	12.5	12.4	
80 2,4,5-Trichlorophenol	196	6.646	6.647	-0.006	92	437562	12.5	12.2	
$ 81 2-Fluorobiphenyl (Surr)	172	6.687	6.687	-0.006	99	2005714	25.1	18.5	
83 1,1'-Biphenyl	154	6.780	6.781	-0.006	96	1242150	12.5	9.97	
84 2-Chloronaphthalene	162	6.798	6.798	-0.006	98	926538	12.5	9.72	
87 2-Nitroaniline	138	6.897	6.898	-0.006	76	412884	12.5	11.5	
90 Dimethyl phthalate	163	7.078	7.078	-0.006	97	907331	12.5	7.75	
92 2,6-Dinitrotoluene	165	7.131	7.131	-0.006	87	299691	12.5	11.5	
93 Acenaphthylene	152	7.195	7.195	-0.006	99	1681539	12.5	11.0	
95 3-Nitroaniline	138	7.288	7.288	-0.006	89	323540	12.5	10.5	
* 96 Acenaphthene-d10	164	7.329	7.335	-0.006	96	399581	5.00	5.00	
97 Acenaphthene	153	7.358	7.358	-0.006	98	1055991	12.5	10.6	
98 2,4-Dinitrophenol	184	7.388	7.388	-0.005	82	358439	25.0	22.5	
100 4-Nitrophenol	109	7.475	7.475	-0.006	93	338209	25.0	15.5	
102 2,4-Dinitrotoluene	165	7.516	7.516	-0.006	88	411762	12.5	11.8	
101 Dibenzofuran	168	7.528	7.522	0.000	95	1434024	12.5	10.6	
105 2,3,4,6-Tetrachlorophenol	232	7.645	7.644	-0.005	77	329607	12.5	11.6	
107 Diethyl phthalate	149	7.756	7.749	0.000	97	1268741	12.5	10.2	
108 Fluorene	166	7.849	7.849	-0.006	91	1164654	12.5	10.6	
110 4-Chlorophenyl phenyl ether	204	7.855	7.854	-0.006	95	493463	12.5	9.89	
112 4-Nitroaniline	138	7.872	7.872	-0.006	80	347445	12.5	11.3	
113 4,6-Dinitro-2-methylphenol	198	7.902	7.902	-0.005	85	426327	25.0	23.5	
114 N-Nitrosodiphenylamine	169	7.966	7.966	-0.006	65	893835	10.6	9.73	
115 1,2-Diphenylhydrazine	77	8.007	8.007	-0.005	42	1779404	12.5	10.8	
$ 116 2,4,6-Tribromophenol	330	8.083	8.082	-0.005	87	660261	50.2	42.6	
122 4-Bromophenyl phenyl ether	248	8.322	8.322	-0.006	72	309712	12.5	10.6	
124 Hexachlorobenzene	284	8.369	8.369	-0.005	90	324349	12.5	10.2	
126 Atrazine	200	8.480	8.480	-0.005	85	383617	12.5	11.0	
127 Pentachlorophenol	266	8.561	8.561	-0.006	88	499156	25.0	24.5	
* 131 Phenanthrene-d10	188	8.742	8.748	-0.006	97	747291	5.00	5.00	
132 Phenanthrene	178	8.766	8.765	-0.006	99	1786286	12.5	10.7	
135 Anthracene	178	8.812	8.812	-0.006	99	1792376	12.5	11.0	
136 Carbazole	167	8.970	8.970	-0.006	97	1769014	12.5	11.6	
138 Di-n-butyl phthalate	149	9.315	9.314	-0.005	100	2186159	12.5	10.5	
144 Fluoranthene	202	9.898	9.898	-0.006	99	1826499	12.5	10.6	
145 Benzidine	184	10.033	10.039	-0.011	99	333708	25.0	2.82	
* 146 Pyrene-d10 (IS)	212	10.097	10.103	-0.006	98	682922	5.00	5.00	
147 Pyrene	202	10.115	10.114	-0.006	96	1887187	12.5	10.8	
$ 148 p-Terphenyl-d14	244	10.278	10.278	-0.006	97	2493291	25.1	22.3	
153 Butyl benzyl phthalate	149	10.792	10.791	-0.006	95	822013	12.5	9.27	
157 3,3'-Dichlorobenzidine	252	11.382	11.381	-0.005	77	1004865	25.0	17.3	
156 Benzo[a]anthracene	228	11.399	11.398	-0.006	100	1528131	12.5	10.7	
159 Chrysene	228	11.440	11.446	-0.006	97	1464683	12.5	10.9	
160 Bis(2-ethylhexyl) phthalate	149	11.481	11.474	0.000	97	1232496	12.5	9.79	
162 Di-n-octyl phthalate	149	12.345	12.351	-0.012	99	2184779	12.5	10.3	
164 Benzo[b]fluoranthene	252	12.812	12.806	-0.006	97	1506004	12.5	10.4	
165 Benzo[k]fluoranthene	252	12.847	12.853	-0.012	99	1531510	12.5	11.1	
166 Benzo[a]pyrene	252	13.268	13.273	-0.011	80	1331967	12.5	10.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 167 Perylene-d12	264	13.349	13.361	-0.012	96	575792	5.00	5.00	
171 Indeno[1,2,3-cd]pyrene	276	14.967	14.978	-0.017	97	1183593	12.5	10.2	
172 Dibenz(a,h)anthracene	278	15.019	15.024	-0.012	96	1252319	12.5	10.2	
173 Benzo[g,h,i]perylene	276	15.422	15.433	-0.018	93	1312102	12.5	10.4	

QC Flag Legend

Processing Flags

Reagents:

MSS_RV8270_IS_00022 Amount Added: 20.00 Units: uL Run Reagent

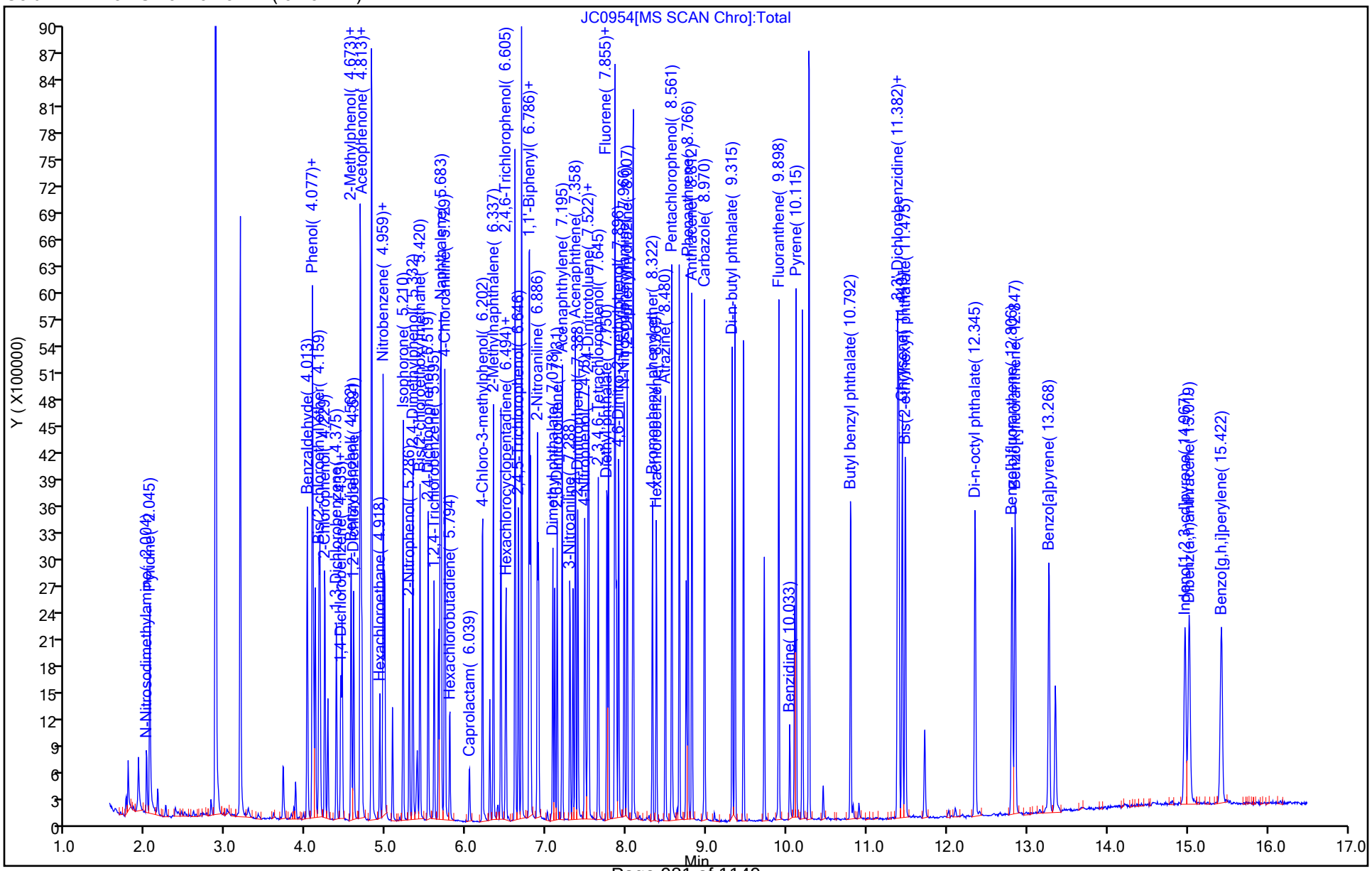
Report Date: 10-Mar-2022 13:10:45 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0954.D

Injection Date:	09-Mar-2022 18:43:30	Instrument ID:	HP23264	Operator ID:	mem41592
Lims ID:	LCSD 410-231598/3-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSSemi_HP23264	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\JC0954.D
Lims ID: LCSD 410-231598/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 09-Mar-2022 18:43:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 410-231598/3-A
Operator ID: mem41592 Instrument ID: HP23264

Method: \\chromfs\Lancaster\ChromData\HP23264\20220309-52105.b\MSSemi_HP23264.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Mar-2022 13:10:33 Calib Date: 23-Feb-2022 15:34:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23264\20220223-51020.b\JB2307.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1622

First Level Reviewer: bauera Date: 10-Mar-2022 12:49:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 2-Fluorophenol	50.2	27.3	54.52
$ 15 Phenol-d5	50.1	19.4	38.68
$ 39 Nitrobenzene-d5	25.1	18.6	74.06
$ 81 2-Fluorobiphenyl (Surr)	25.1	18.5	73.74
$ 116 2,4,6-Tribromophenol	50.2	42.6	84.90
$ 148 p-Terphenyl-d14	25.1	22.3	89.01

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Instrument ID: HP23264 Start Date: 02/14/2022 11:55

Analysis Batch Number: 223551 End Date: 02/14/2022 16:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-223551/1		02/14/2022 11:55	1	JB1400.D	DB-5MS 30m 0.25 0.25(mm)
ICIS 410-223551/2		02/14/2022 12:11	1	JB1401.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-223551/3		02/14/2022 12:32	1	JB1401a.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-223551/4		02/14/2022 12:55	1	JB1403.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-223551/5		02/14/2022 13:16	1	JB1404.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-223551/6		02/14/2022 13:37	1	JB1405.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-223551/7		02/14/2022 13:59	1	JB1406.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-223551/8		02/14/2022 14:20	1	JB1407.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-223551/9		02/14/2022 14:41	1	JB1408.D	DB-5MS 30m 0.25 0.25(mm)
ICVL 410-223551/10		02/14/2022 15:02	1		DB-5MS 30m 0.25 0.25(mm)
ICVL 410-223551/11		02/14/2022 15:23	1		DB-5MS 30m 0.25 0.25(mm)
ICV 410-223551/12		02/14/2022 15:45	1	JB1411.D	DB-5MS 30m 0.25 0.25(mm)
ICV 410-223551/13		02/14/2022 16:06	1	JB1412.D	DB-5MS 30m 0.25 0.25(mm)
ICV 410-223551/14		02/14/2022 16:27	1	JB1413.D	DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Instrument ID: HP23264 Start Date: 03/09/2022 16:50

Analysis Batch Number: 231885 End Date: 03/10/2022 00:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-231885/1		03/09/2022 16:50	1	JC0950.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-231885/2		03/09/2022 17:16	1	JC0951.D	DB-5MS 30m 0.25 0.25(mm)
MB 410-231598/1-A		03/09/2022 17:59	1	JC0952.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-231598/2-A		03/09/2022 18:21	1	JC0953.D	DB-5MS 30m 0.25 0.25(mm)
LCSD 410-231598/3-A		03/09/2022 18:43	1	JC0954.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/09/2022 19:05	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/09/2022 19:27	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/09/2022 19:49	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/09/2022 20:11	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/09/2022 20:33	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/09/2022 20:55	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/09/2022 21:17	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/09/2022 21:39	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/09/2022 22:01	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/09/2022 22:23	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/09/2022 22:45	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/09/2022 23:07	1		DB-5MS 30m 0.25 0.25(mm)
410-74987-1	FBW001_03032022	03/09/2022 23:29	1	JC0967.D	DB-5MS 30m 0.25 0.25(mm)
410-74987-2	FBS010_03032022	03/09/2022 23:51	1	JC0968.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/10/2022 00:36	5		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-74987-1

SDG No.:

Batch Number: 231598 Batch Start Date: 03/09/22 09:52 Batch Analyst: Gibson, Cara

Batch Method: 3510C Batch End Date: 03/09/22 14:32

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	DensityAcc	InitialAmount	FinalAmount	ReceivedpH
MB 410-231598/1		3510C, 8270D				N/A	250 mL	1 mL	N/A SU
LCS 410-231598/2		3510C, 8270D				N/A	250 mL	1 mL	N/A SU
LCSD 410-231598/3		3510C, 8270D				N/A	250 mL	1 mL	N/A SU
410-74987-D-1	FBW001_03032022	3510C, 8270D	T	414.45 g	166.36 g	N/A	248.1 mL	1 mL	N/A SU
410-74987-D-2	FBS010_03032022	3510C, 8270D	T	416.38 g	168.61 g	N/A	247.8 mL	1 mL	N/A SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	FirstAdjustpH	SecondAdjustpH	CUPerformed	OP_MINIBNA_SS 00056	OP_MINLCS1_MS 00107	OP_MINLCS2_MS 00061
MB 410-231598/1		3510C, 8270D		>11 SU	<2 SU	N/A	1 mL		
LCS 410-231598/2		3510C, 8270D		>11 SU	<2 SU	N/A	1 mL	1 mL	1 mL
LCSD 410-231598/3		3510C, 8270D		>11 SU	<2 SU	N/A	1 mL	1 mL	1 mL
410-74987-D-1	FBW001_03032022	3510C, 8270D	T	>11 SU	<2 SU	N/A	1 mL		
410-74987-D-2	FBS010_03032022	3510C, 8270D	T	>11 SU	<2 SU	N/A	1 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 410-231598/1		3510C, 8270D		Tap Water					
LCS 410-231598/2		3510C, 8270D		Tap Water					
LCSD 410-231598/3		3510C, 8270D		Tap Water					
410-74987-D-1	FBW001_03032022	3510C, 8270D	T	Clear					
410-74987-D-2	FBS010_03032022	3510C, 8270D	T	Clear					

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-74987-1

SDG No.:

Batch Number: 231598 Batch Start Date: 03/09/22 09:52 Batch Analyst: Gibson, Cara

Batch Method: 3510C Batch End Date: 03/09/22 14:32

Batch Notes	
Balance ID	25996
Pipette/Syringe/Dispenser ID	3
Analyst ID - Extraction	CNG41579
Analyst ID - Spike Analyst	CNG41579
Acid Used for pH Adjustment ID	H2SO4: 212463
Base Used to Adjust pH ID	NaOH: 4106F80
Prep Solvent ID	MeCl2: 218657
Prep Solvent Volume Used	90 mL
Na2SO4 ID	22067A
Analyst ID - Concentration	CNG41579
Equipment ID - Concentration 1	Rapid Vap # 1, 2
Concentration 1 Corrected Temperature	80 Degrees C
Batch Comment	Split with batch 231594

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.

Method 8270D SIM

Semivolatile Organic Compounds (GC/MS SIM) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-74987-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-5MS 30m ID: 0.25(mm)

Client Sample ID	Lab Sample ID	MNPd10 #	FLN10 #	BAPd12 #
FBW001_03032022	410-74987-1	66 cn	84 cn	77 cn
FBS010_03032022	410-74987-2	65 cn	79 cn	69 cn
	MB 410-231594/1-A	65	78	81
	LCS 410-231594/2-A	62	72	82
	LCSD 410-231594/3-A	79	87	94

	QC LIMITS
MNPd10 = 1-Methylnaphthalene-d10 (Surr)	36-111
FLN10 = Fluoranthene-d10 (Surr)	47-128
BAPd12 = Benzo(a)pyrene-d12 (Surr)	10-110

Column to be used to flag recovery values

FORM II 8270D SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-74987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MC0503.D

Lab ID: LCS 410-231594/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	1.00	0.516	52	23-120	
1-Methylnaphthalene	1.00	0.609	61	23-124	
2-Methylnaphthalene	1.00	0.571	57	20-133	
Acenaphthene	1.00	0.630	63	42-120	
Acenaphthylene	1.00	0.648	65	49-120	
Anthracene	1.00	0.740	74	54-121	
Benzo[a]anthracene	1.00	0.803	80	61-122	
Benzo[a]pyrene	1.00	0.756	76	60-120	
Benzo[b]fluoranthene	1.00	0.801	80	58-122	
Benzo[g,h,i]perylene	1.00	0.868	87	50-120	
Benzo[k]fluoranthene	1.00	0.789	79	57-128	
Bis(2-chloroethyl)ether	1.00	1.43	143	59-130	*+
Bis(2-ethylhexyl) phthalate	1.00	0.699 J	70	14-155	
Butylbenzylphthalate	1.00	0.516 J	52	10-120	
Chrysene	1.00	0.738	74	55-123	
Dibenz(a,h)anthracene	1.00	0.946	95	50-121	
Dibenzofuran	1.00	0.713	71	48-124	
Diethylphthalate	1.00	0.719 J	72	38-120	
Dimethylphthalate	1.00	0.535 J	53	10-121	
Di-n-butyl phthalate	1.00	0.695 J	70	46-125	
Di-n-octyl phthalate	1.00	0.681 J	68	22-130	
Fluoranthene	1.00	0.736	74	61-123	
Fluorene	1.00	0.707	71	55-120	
Hexachlorobenzene	1.00	0.627	63	20-120	
Indeno[1,2,3-cd]pyrene	1.00	0.978	98	47-143	
Naphthalene	1.00	0.583	58	20-120	
N-Nitrosodimethylamine	1.00	0.909	91	37-120	
Phenanthrene	1.00	0.724	72	59-120	
Pyrene	1.00	0.711	71	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-74987-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MC0504.D

Lab ID: LCSD 410-231594/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,4-Dioxane	1.00	0.547	55	6	30	23-120	
1-Methylnaphthalene	1.00	0.757	76	22	30	23-124	
2-Methylnaphthalene	1.00	0.725	73	24	30	20-133	
Acenaphthene	1.00	0.770	77	20	30	42-120	
Acenaphthylene	1.00	0.789	79	20	30	49-120	
Anthracene	1.00	0.868	87	16	30	54-121	
Benzo[a]anthracene	1.00	0.917	92	13	30	61-122	
Benzo[a]pyrene	1.00	0.867	87	14	30	60-120	
Benzo[b]fluoranthene	1.00	0.938	94	16	30	58-122	
Benzo[g,h,i]perylene	1.00	0.946	95	9	30	50-120	
Benzo[k]fluoranthene	1.00	0.892	89	12	30	57-128	
Bis(2-chloroethyl)ether	1.00	1.53	153	7	30	59-130	*+
Bis(2-ethylhexyl) phthalate	1.00	0.868 J	87	22	30	14-155	
Butylbenzylphthalate	1.00	0.514 J	51	0	30	10-120	
Chrysene	1.00	0.863	86	16	30	55-123	
Dibenz(a,h)anthracene	1.00	1.03	103	9	30	50-121	
Dibenzofuran	1.00	0.854	85	18	30	48-124	
Diethylphthalate	1.00	0.786 J	79	9	30	38-120	
Dimethylphthalate	1.00	0.521 J	52	3	30	10-121	
Di-n-butyl phthalate	1.00	0.815 J	81	16	30	46-125	
Di-n-octyl phthalate	1.00	0.743 J	74	9	30	22-130	
Fluoranthene	1.00	0.883	88	18	30	61-123	
Fluorene	1.00	0.839	84	17	30	55-120	
Hexachlorobenzene	1.00	0.822	82	27	30	20-120	
Indeno[1,2,3-cd]pyrene	1.00	1.11	111	13	30	47-143	
Naphthalene	1.00	0.748	75	25	30	20-120	
N-Nitrosodimethylamine	1.00	0.984	98	8	30	37-120	
Phenanthrene	1.00	0.859	86	17	30	59-120	
Pyrene	1.00	0.806	81	13	30	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-74987-1

SDG No.:

Lab File ID: MC0502.D Lab Sample ID: MB 410-231594/1-A

Matrix: Water Date Extracted: 03/09/2022 09:51

Instrument ID: HP21585 Date Analyzed: 03/09/2022 19:47

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-231594/2-A	MC0503.D	03/09/2022 20:16
	LCSD 410-231594/3-A	MC0504.D	03/09/2022 20:46
FBW001_03032022	410-74987-1	MC0509.D	03/09/2022 23:15
FBS010_03032022	410-74987-2	MC0510.D	03/09/2022 23:45

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Lab File ID: MA0850.D DFTPP Injection Date: 01/25/2022

Instrument ID: HP21585 DFTPP Injection Time: 05:27

Analysis Batch No.: 217423

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	28.5	
68	Less than 2% of mass 69	0.6	(1.6) 1
69	Mass 69 Relative abundance	36.8	
70	Less than 2% of mass 69	0.2	(0.5) 1
127	10-80% of Base Peak	40.5	
197	Less than 2% of mass 198	0.2	
198	Base peak	100.0	
199	5-9% of mass 198	6.7	
275	10-60% of Base Peak	33.0	
365	Greater than 1% of mass 198	5.3	
441	present but less than 24% of mass 442	29.4	(15.8) 2
442	Greater than 50% of mass 198	185.7	
443	15-24% of mass 442	36.9	(19.8) 2

1-Value is % mass 69 2-Value is % mass 442

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
	ICIS 410-217423/2	MA0851.D	01/25/2022	5:48
	IC 410-217423/3	MA0852.D	01/25/2022	6:30
	IC 410-217423/4	MA0853.D	01/25/2022	6:59
	IC 410-217423/5	MA0854.D	01/25/2022	7:29
	IC 410-217423/6	MA0855.D	01/25/2022	7:59
	IC 410-217423/7	MA0856.D	01/25/2022	8:29
	ICV 410-217423/9	MA0858.D	01/25/2022	9:28
	ICV 410-217423/10	MA0859.D	01/25/2022	9:58

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Lab File ID: MC0500a.D DFTPP Injection Date: 03/09/2022

Instrument ID: HP21585 DFTPP Injection Time: 18:40

Analysis Batch No.: 231826

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	50.6	
68	Less than 2% of mass 69	1.0	(1.6) 1
69	Mass 69 Relative abundance	61.8	
70	Less than 2% of mass 69	0.3	(0.6) 1
127	10-80% of Base Peak	46.6	
197	Less than 2% of mass 198	0.9	
198	Base peak	100.0	
199	5-9% of mass 198	6.6	
275	10-60% of Base Peak	34.7	
365	Greater than 1% of mass 198	7.0	
441	present but less than 24% of mass 442	27.8	(15.3) 2
442	Greater than 50% of mass 198	181.8	
443	15-24% of mass 442	35.6	(19.6) 2

1-Value is % mass 69 2-Value is % mass 442

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 410-231826/2	MC0501a.D	03/09/2022	18:57
	MB 410-231594/1-A	MC0502.D	03/09/2022	19:47
	LCS 410-231594/2-A	MC0503.D	03/09/2022	20:16
	LCSD 410-231594/3-A	MC0504.D	03/09/2022	20:46
FBW001_03032022	410-74987-1	MC0509.D	03/09/2022	23:15
FBS010_03032022	410-74987-2	MC0510.D	03/09/2022	23:45

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Sample No.: ICIS 410-217423/2 Date Analyzed: 01/25/2022 05:48

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MA0851.D Heated Purge: (Y/N) N

Calibration ID: 34940

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		63900	6.99	207121	8.91	157490	11.69
UPPER LIMIT		127800	7.49	414242	9.41	314980	12.19
LOWER LIMIT		31950	6.49	103561	8.41	78745	11.19
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-217423/9		76642	6.99	256774	8.91	176881	11.69
ICV 410-217423/10		74362	7.03	256186	8.93	173410	11.69
CCVIS 410-231826/2		45592	6.83	164296	8.75	140381	11.54

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

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 8270D SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Sample No.: ICIS 410-217423/2 Date Analyzed: 01/25/2022 05:48

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MA0851.D Heated Purge: (Y/N) N

Calibration ID: 34940

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		345456	13.59	450984	17.65	533802	20.12
UPPER LIMIT		690912	14.09	901968	18.15	1067604	20.62
LOWER LIMIT		172728	13.09	225492	17.15	266901	19.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-217423/9		360391	13.58	421094	17.65	466196	20.13
ICV 410-217423/10		355226	13.59	416503	17.65	467293	20.12
CCVIS 410-231826/2		291040	13.45	358868	17.47	437666	19.94

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

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 8270D SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Sample No.: CCVIS 410-231826/2 Date Analyzed: 03/09/2022 18:57

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MC0501a.D Heated Purge: (Y/N) N

Calibration ID: 34940

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		45592	6.83	164296	8.75	140381	11.54
UPPER LIMIT		91184	7.33	328592	9.25	280762	12.04
LOWER LIMIT		22796	6.33	82148	8.25	70191	11.04
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-231594/1-A		29771	6.83	99444	8.77	89666	11.55
LCS 410-231594/2-A		28437	6.83	99670	8.75	87819	11.54
LCSD 410-231594/3-A		29876	6.83	101927	8.75	90004	11.54
410-74987-1	FBW001_03032022	31018	6.83	105372	8.77	74231	11.55
410-74987-2	FBS010_03032022	42295	6.83	138576	8.77	95446	11.55

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

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 8270D SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Sample No.: CCVIS 410-231826/2 Date Analyzed: 03/09/2022 18:57

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MC0501a.D Heated Purge: (Y/N) N

Calibration ID: 34940

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		291040	13.45	358868	17.47	437666	19.94
UPPER LIMIT		582080	13.95	717736	17.97	875332	20.44
LOWER LIMIT		145520	12.95	179434	16.97	218833	19.44
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-231594/1-A		181101	13.46	221424	17.49	275917	19.96
LCS 410-231594/2-A		178197	13.45	212235	17.48	260783	19.95
LCSD 410-231594/3-A		182068	13.45	230487	17.48	277368	19.95
410-74987-1	FBW001_03032022	177430	13.47	238747	17.49	299028	19.96
410-74987-2	FBS010_03032022	191548	13.46	252343	17.49	312811	19.96

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

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 8270D SIM

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: FBW001_03032022 Lab Sample ID: 410-74987-1

Matrix: Water Lab File ID: MC0509.D

Analysis Method: 8270D SIM Date Collected: 03/03/2022 09:20

Extract. Method: 3510C Date Extracted: 03/09/2022 09:51

Sample wt/vol: 248.1(mL) Date Analyzed: 03/09/2022 23:15

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 231826 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND	cn	0.30	0.10
90-12-0	1-Methylnaphthalene	ND	cn	0.050	0.020
91-57-6	2-Methylnaphthalene	ND	cn	0.050	0.020
83-32-9	Acenaphthene	ND	cn	0.050	0.010
208-96-8	Acenaphthylene	ND	cn	0.050	0.010
120-12-7	Anthracene	ND	cn	0.050	0.010
56-55-3	Benzo[a]anthracene	ND	cn	0.050	0.010
50-32-8	Benzo[a]pyrene	ND	cn	0.050	0.010
205-99-2	Benzo[b]fluoranthene	ND	cn	0.050	0.010
191-24-2	Benzo[g,h,i]perylene	ND	cn	0.050	0.010
207-08-9	Benzo[k]fluoranthene	ND	cn	0.050	0.010
111-44-4	Bis(2-chloroethyl)ether	ND	*+ cn	0.050	0.020
117-81-7	Bis(2-ethylhexyl) phthalate	ND	cn	1.0	0.050
85-68-7	Butylbenzylphthalate	ND	cn	1.0	0.050
218-01-9	Chrysene	ND	cn	0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND	cn	0.050	0.020
132-64-9	Dibenzofuran	ND	cn	0.050	0.010
84-66-2	Diethylphthalate	ND	cn	1.0	0.050
131-11-3	Dimethylphthalate	ND	cn	1.0	0.050
84-74-2	Di-n-butyl phthalate	0.051	J cn	1.0	0.050
117-84-0	Di-n-octyl phthalate	ND	cn	1.0	0.050
206-44-0	Fluoranthene	ND	cn	0.050	0.010
86-73-7	Fluorene	ND	cn	0.050	0.010
118-74-1	Hexachlorobenzene	ND	cn	0.050	0.020
193-39-5	Indeno[1,2,3-cd]pyrene	ND	cn	0.050	0.020
91-20-3	Naphthalene	ND	cn	0.071	0.030
62-75-9	N-Nitrosodimethylamine	ND	cn	0.050	0.020
85-01-8	Phenanthrene	ND	cn	0.071	0.030
129-00-0	Pyrene	ND	cn	0.050	0.010

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: FBW001_03032022 Lab Sample ID: 410-74987-1

Matrix: Water Lab File ID: MC0509.D

Analysis Method: 8270D SIM Date Collected: 03/03/2022 09:20

Extract. Method: 3510C Date Extracted: 03/09/2022 09:51

Sample wt/vol: 248.1(mL) Date Analyzed: 03/09/2022 23:15

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 231826 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	66	cn	36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	77	cn	10-110
93951-69-0	Fluoranthene-d10 (Surr)	84	cn	47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0509.D				
Lims ID:	410-74987-D-1-A				
Client ID:	FBW001_03032022				
Sample Type:	Client				
Inject. Date:	09-Mar-2022 23:15:30	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-74987-D-1-A				
Misc. Info.:	410-0052091-010				
Operator ID:	kel10217	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	10-Mar-2022 05:07:52	Calib Date:	25-Jan-2022 08:29:00		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1625				
First Level Reviewer: gamblerj		Date:	10-Mar-2022 05:02:06		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.829	6.829	0.000	86	31018	0.2500	
* 5 Naphthalene-d8	136	8.767	8.746	0.020	91	105372	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.983	9.971	0.012	100	44942	0.1654	
* 13 Acenaphthene-d10	164	11.548	11.536	0.012	89	74231	0.2500	
* 20 Phenanthrene-d10	188	13.467	13.452	0.015	96	177430	0.2500	
23 Di-n-butyl phthalate	149	14.257	14.259	0.006	100	8133	0.0126	
$ 24 Fluoranthene-d10 (Surr)	212	15.103	15.153	0.019	96	186429	0.2097	
* 29 Chrysene-d12	240	17.494	17.471	0.023	55	238747	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.833	19.848	0.023	97	200180	0.1925	
* 38 Perylene-d12	264	19.963	19.940	0.023	97	299028	0.2500	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_IS_00022 Amount Added: 10.00 Units: uL Run Reagent

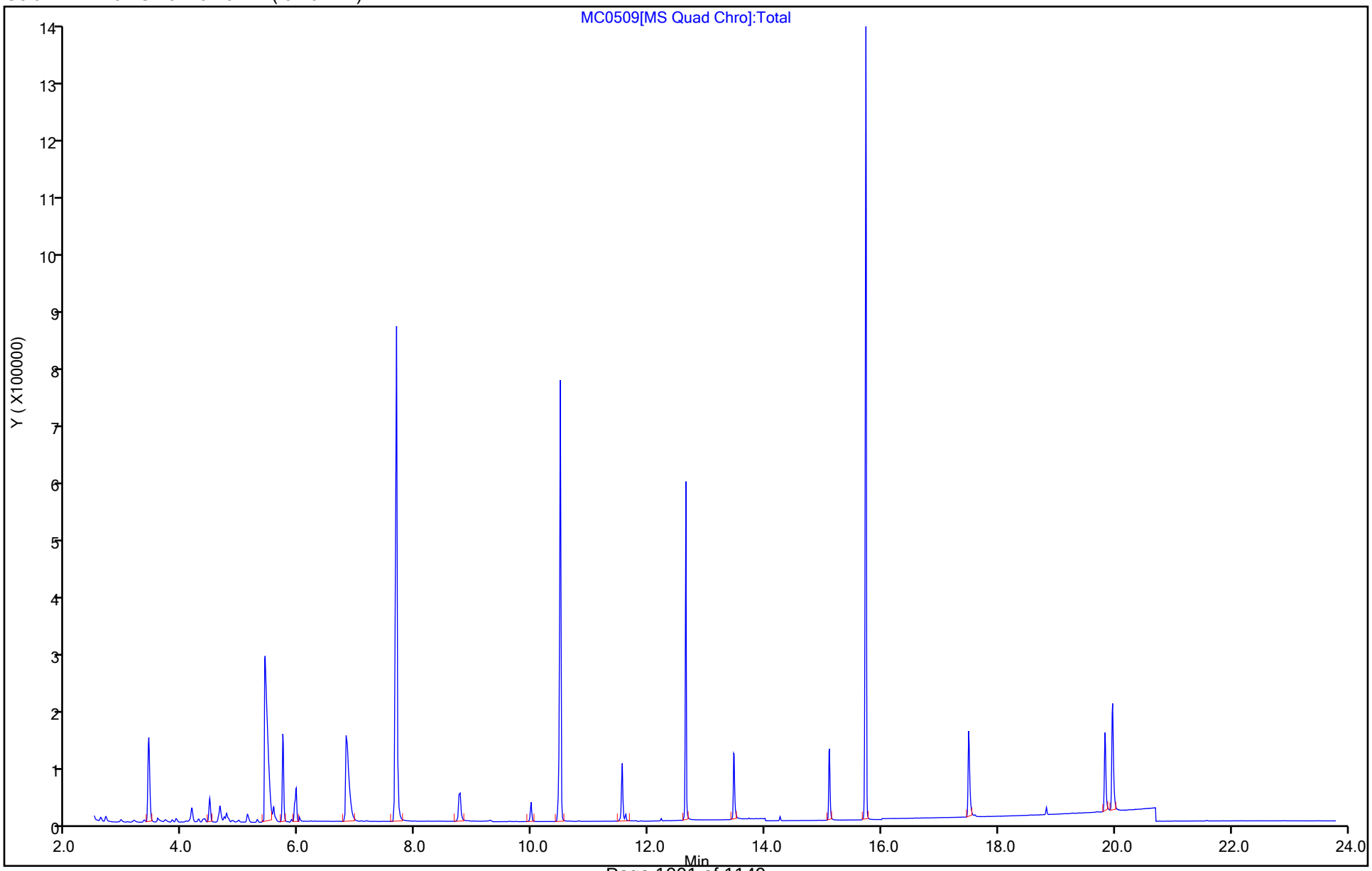
Report Date: 10-Mar-2022 05:08:00 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0509.D

Injection Date:	09-Mar-2022 23:15:30	Instrument ID:	HP21585	Operator ID:	kel10217
Lims ID:	410-74987-D-1-A	Lab Sample ID:	410-74987-1	Worklist Smp#:	10
Client ID:	FBW001_03032022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0509.D
Lims ID: 410-74987-D-1-A
Client ID: FBW001_03032022
Sample Type: Client
Inject. Date: 09-Mar-2022 23:15:30 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-74987-D-1-A
Misc. Info.: 410-0052091-010
Operator ID: kel10217 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 10-Mar-2022 05:07:52 Calib Date: 25-Jan-2022 08:29:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: gamblerj Date: 10-Mar-2022 05:02:06

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1654	66.15
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.2097	83.88
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1925	77.00

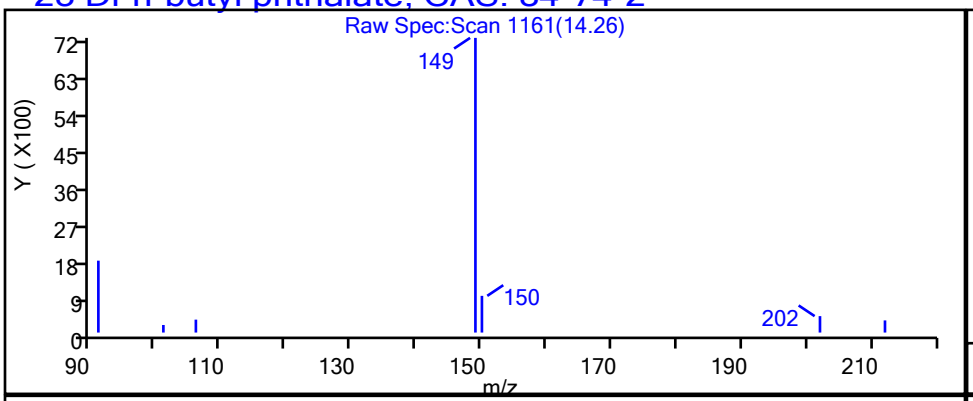
Report Date: 10-Mar-2022 05:08:00 Chrom Revision: 2.3 16-Feb-2022 17:52:00

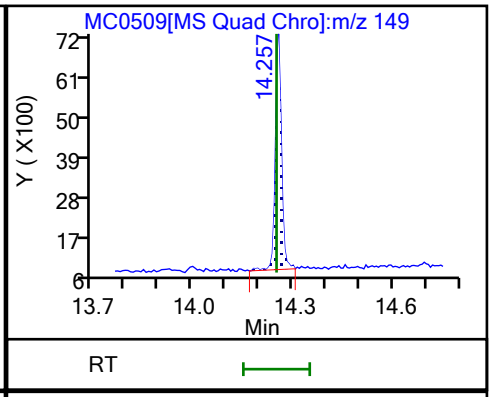
Eurofins Lancaster Laboratories Env, LLC

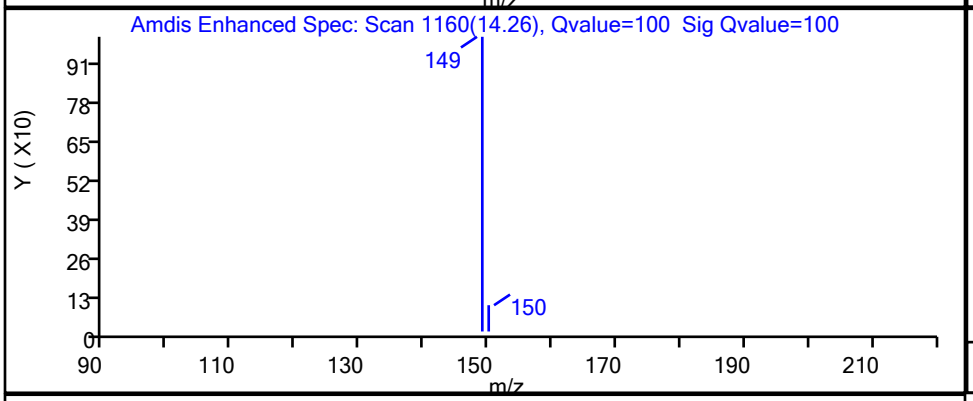
Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0509.D

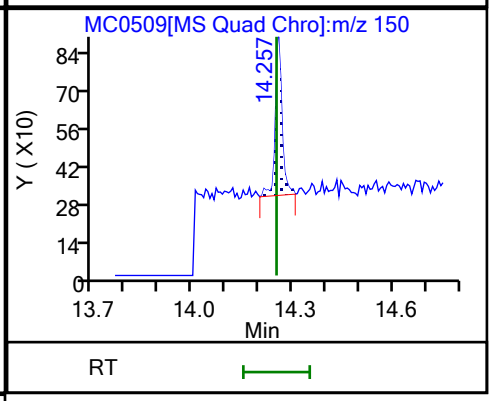
Injection Date:	09-Mar-2022 23:15:30	Instrument ID:	HP21585		
Lims ID:	410-74987-D-1-A	Lab Sample ID:	410-74987-1		
Client ID:	FBW001_03032022				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

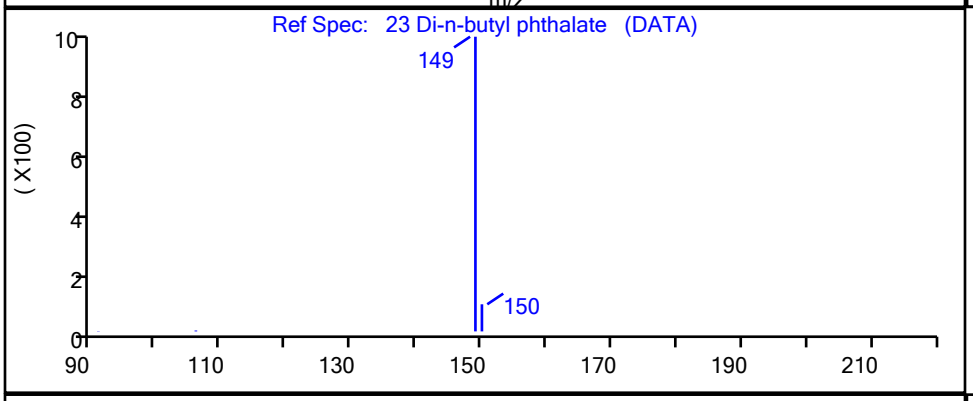
23 Di-n-butyl phthalate, CAS: 84-74-2

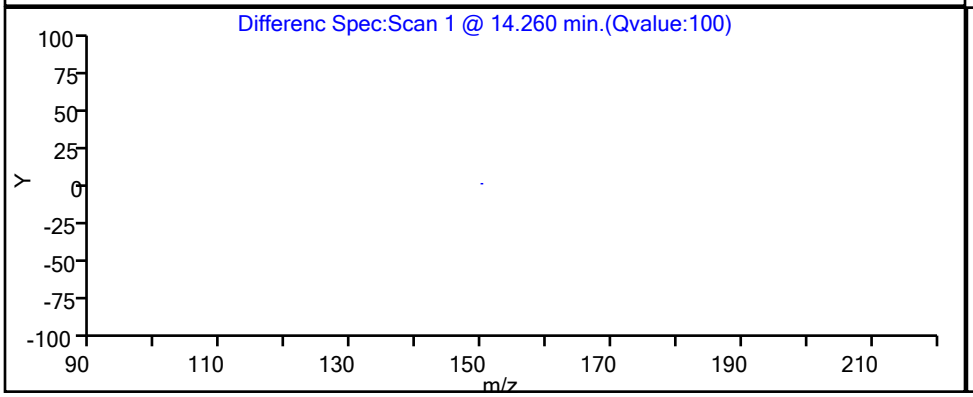


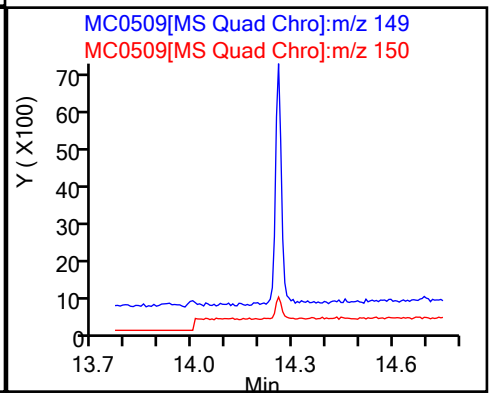












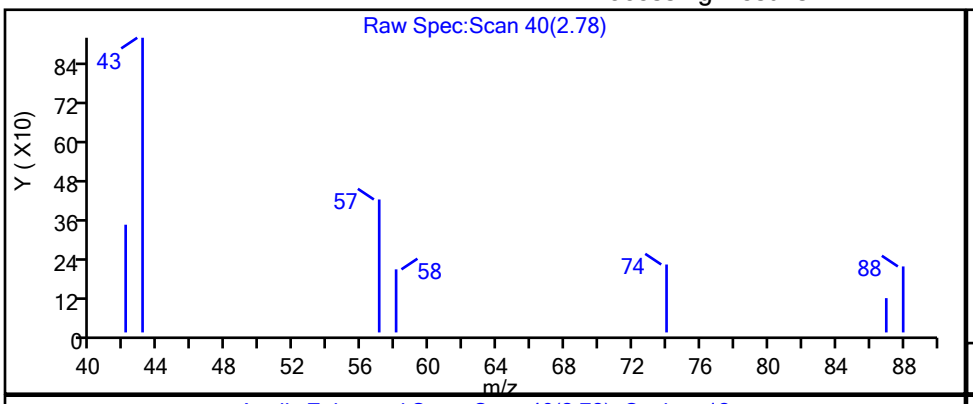
User Disabled Compound Report

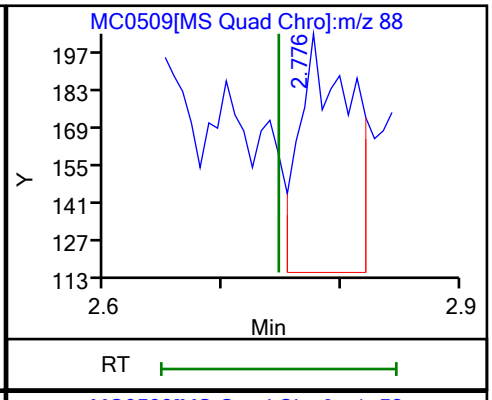
Eurofins Lancaster Laboratories Env, LLC

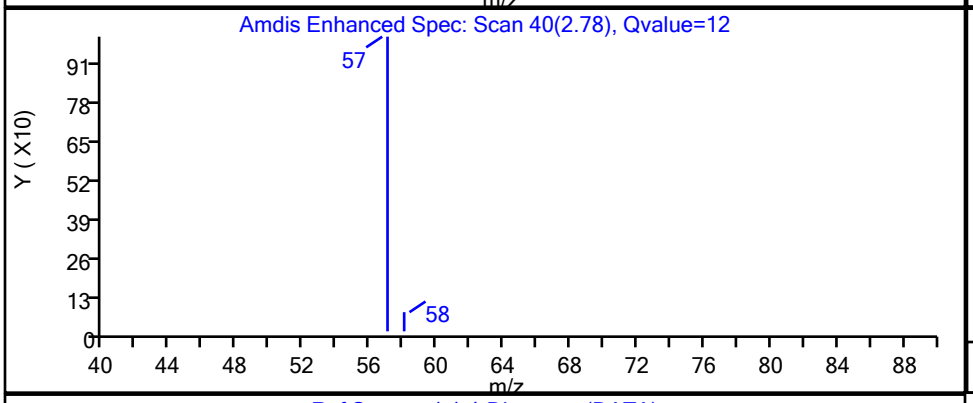
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0509.D				
Injection Date:	09-Mar-2022 23:15:30	Instrument ID:	HP21585		
Lims ID:	410-74987-D-1-A	Lab Sample ID:	410-74987-1		
Client ID:	FBW001_03032022				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

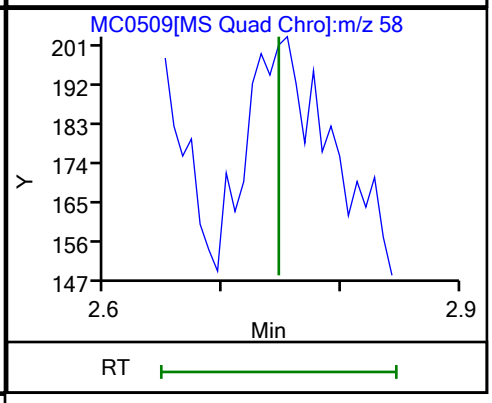
1 1,4-Dioxane, CAS: 123-91-1

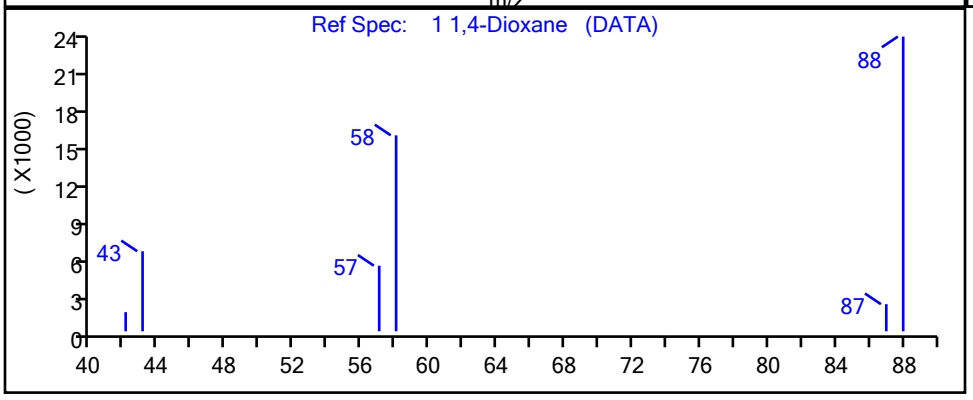
Processing Results











RT	Mass	Response	Amount
2.78	88.00	262	0.002848
2.75	58.00	0	

Reviewer: gamblerj, 10-Mar-2022 05:01:47

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

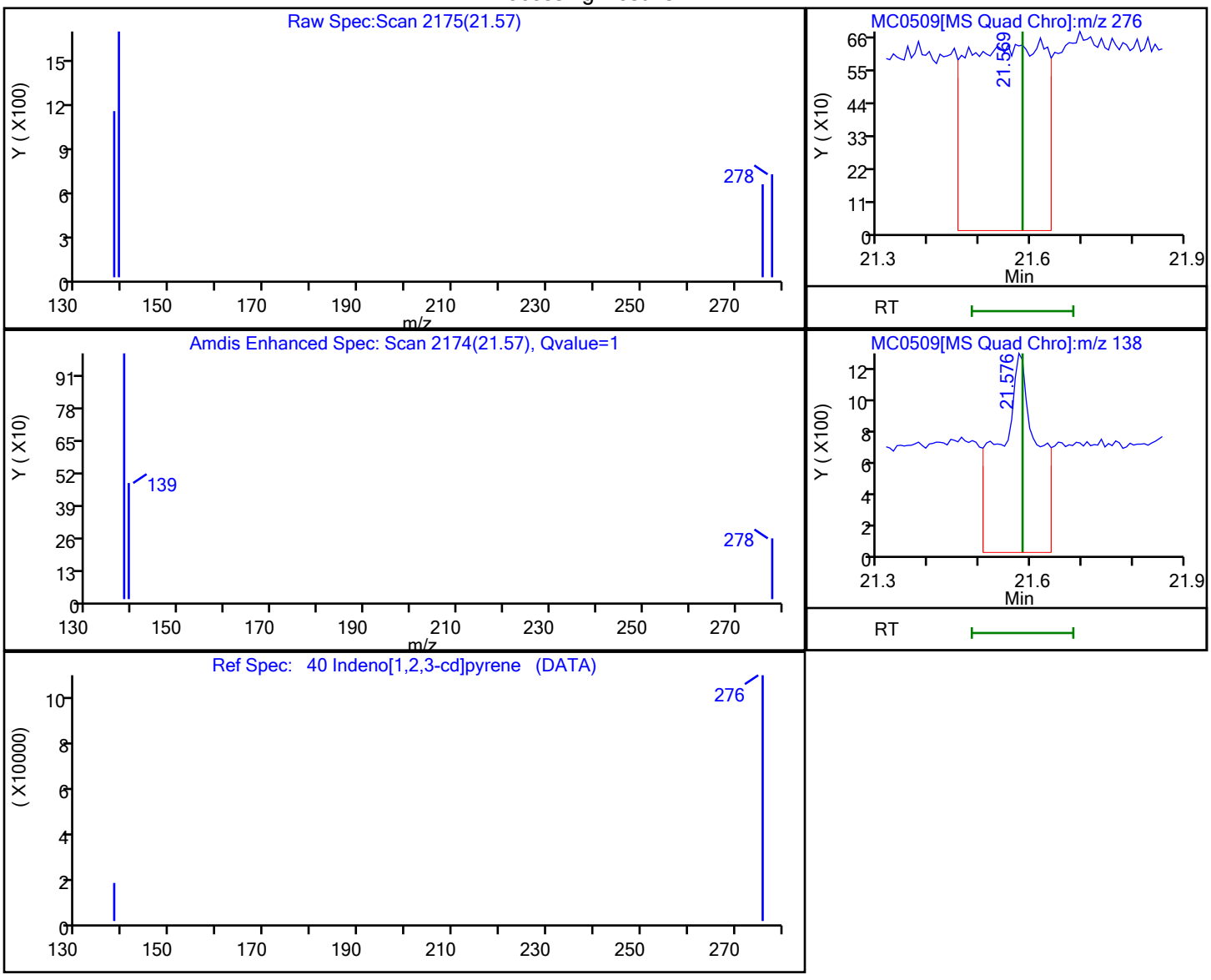
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0509.D				
Injection Date:	09-Mar-2022 23:15:30	Instrument ID:	HP21585		
Lims ID:	410-74987-D-1-A	Lab Sample ID:	410-74987-1		
Client ID:	FBW001_03032022				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Processing Results



RT	Mass	Response	Amount
21.57	276.00	6734	0.005364
21.58	138.00	6545	

Reviewer: gamblerj, 10-Mar-2022 05:02:01

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

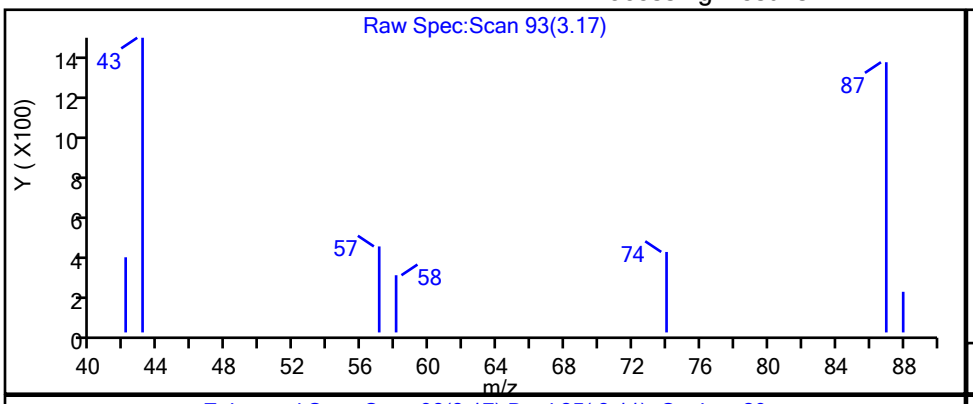
User Disabled Compound Report

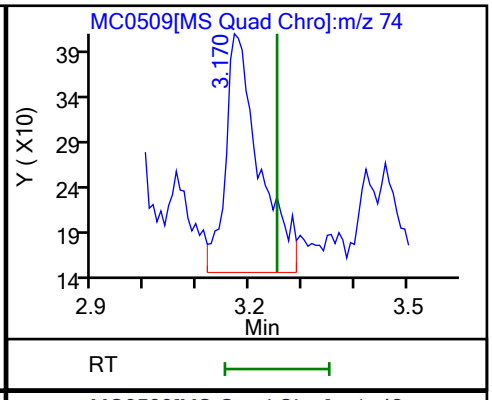
Eurofins Lancaster Laboratories Env, LLC

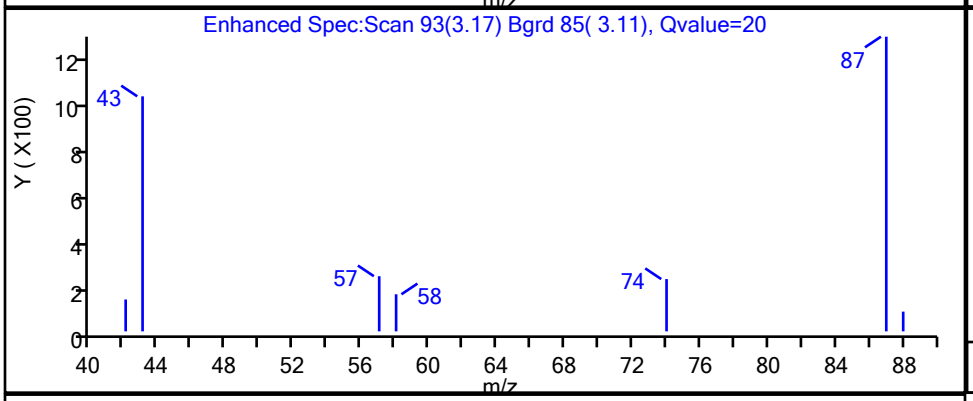
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0509.D				
Injection Date:	09-Mar-2022 23:15:30	Instrument ID:	HP21585		
Lims ID:	410-74987-D-1-A	Lab Sample ID:	410-74987-1		
Client ID:	FBW001_03032022				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

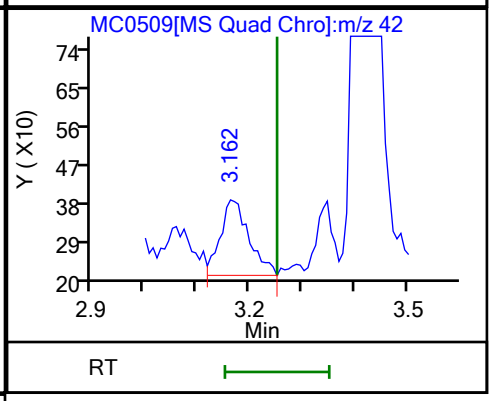
2 N-Nitrosodimethylamine, CAS: 62-75-9

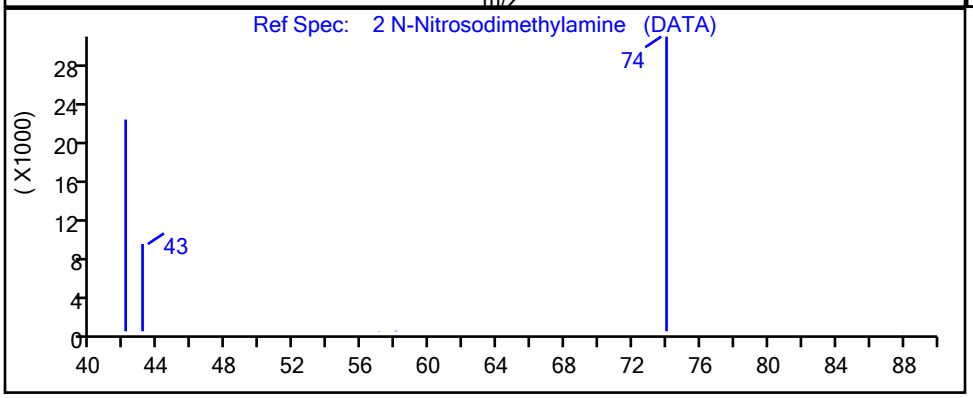
Processing Results











RT	Mass	Response	Amount
3.17	74.00	1182	0.012718
3.16	42.00	675	

Reviewer: gamblerj, 10-Mar-2022 05:01:48

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: FBS010_03032022 Lab Sample ID: 410-74987-2

Matrix: Water Lab File ID: MC0510.D

Analysis Method: 8270D SIM Date Collected: 03/03/2022 09:30

Extract. Method: 3510C Date Extracted: 03/09/2022 09:51

Sample wt/vol: 247.8(mL) Date Analyzed: 03/09/2022 23:45

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 231826 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND	cn	0.30	0.10
90-12-0	1-Methylnaphthalene	ND	cn	0.050	0.020
91-57-6	2-Methylnaphthalene	ND	cn	0.050	0.020
83-32-9	Acenaphthene	ND	cn	0.050	0.010
208-96-8	Acenaphthylene	ND	cn	0.050	0.010
120-12-7	Anthracene	ND	cn	0.050	0.010
56-55-3	Benzo[a]anthracene	ND	cn	0.050	0.010
50-32-8	Benzo[a]pyrene	ND	cn	0.050	0.010
205-99-2	Benzo[b]fluoranthene	ND	cn	0.050	0.010
191-24-2	Benzo[g,h,i]perylene	ND	cn	0.050	0.010
207-08-9	Benzo[k]fluoranthene	ND	cn	0.050	0.010
111-44-4	Bis(2-chloroethyl)ether	ND	*+ cn	0.050	0.020
117-81-7	Bis(2-ethylhexyl) phthalate	ND	cn	1.0	0.050
85-68-7	Butylbenzylphthalate	ND	cn	1.0	0.050
218-01-9	Chrysene	ND	cn	0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND	cn	0.050	0.020
132-64-9	Dibenzofuran	ND	cn	0.050	0.010
84-66-2	Diethylphthalate	ND	cn	1.0	0.050
131-11-3	Dimethylphthalate	ND	cn	1.0	0.050
84-74-2	Di-n-butyl phthalate	ND	cn	1.0	0.050
117-84-0	Di-n-octyl phthalate	ND	cn	1.0	0.050
206-44-0	Fluoranthene	ND	cn	0.050	0.010
86-73-7	Fluorene	ND	cn	0.050	0.010
118-74-1	Hexachlorobenzene	ND	cn	0.050	0.020
193-39-5	Indeno[1,2,3-cd]pyrene	ND	cn	0.050	0.020
91-20-3	Naphthalene	ND	cn	0.071	0.030
62-75-9	N-Nitrosodimethylamine	ND	cn	0.050	0.020
85-01-8	Phenanthrene	ND	cn	0.071	0.030
129-00-0	Pyrene	ND	cn	0.050	0.010

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: FBS010_03032022 Lab Sample ID: 410-74987-2

Matrix: Water Lab File ID: MC0510.D

Analysis Method: 8270D SIM Date Collected: 03/03/2022 09:30

Extract. Method: 3510C Date Extracted: 03/09/2022 09:51

Sample wt/vol: 247.8(mL) Date Analyzed: 03/09/2022 23:45

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 231826 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	65	cn	36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	69	cn	10-110
93951-69-0	Fluoranthene-d10 (Surr)	79	cn	47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0510.D				
Lims ID:	410-74987-D-2-A				
Client ID:	FBS010_03032022				
Sample Type:	Client				
Inject. Date:	09-Mar-2022 23:45:18	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-74987-D-2-A				
Misc. Info.:	410-0052091-011				
Operator ID:	kel10217	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	10-Mar-2022 05:07:52	Calib Date:	25-Jan-2022 08:29:00		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1625				
First Level Reviewer: gamblerj		Date:	10-Mar-2022 05:02:38		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.829	6.829	0.000	86	42295	0.2500	
* 5 Naphthalene-d8	136	8.767	8.746	0.021	95	138576	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.983	9.971	0.012	100	58388	0.1634	
* 13 Acenaphthene-d10	164	11.548	11.536	0.012	89	95446	0.2500	
* 20 Phenanthrene-d10	188	13.460	13.452	0.008	96	191548	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.103	15.153	0.019	96	188672	0.1966	
* 29 Chrysene-d12	240	17.494	17.471	0.023	55	252343	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.833	19.848	0.023	97	187354	0.1722	
* 38 Perylene-d12	264	19.963	19.940	0.023	97	312811	0.2500	

QC Flag Legend

Processing Flags

Reagents:

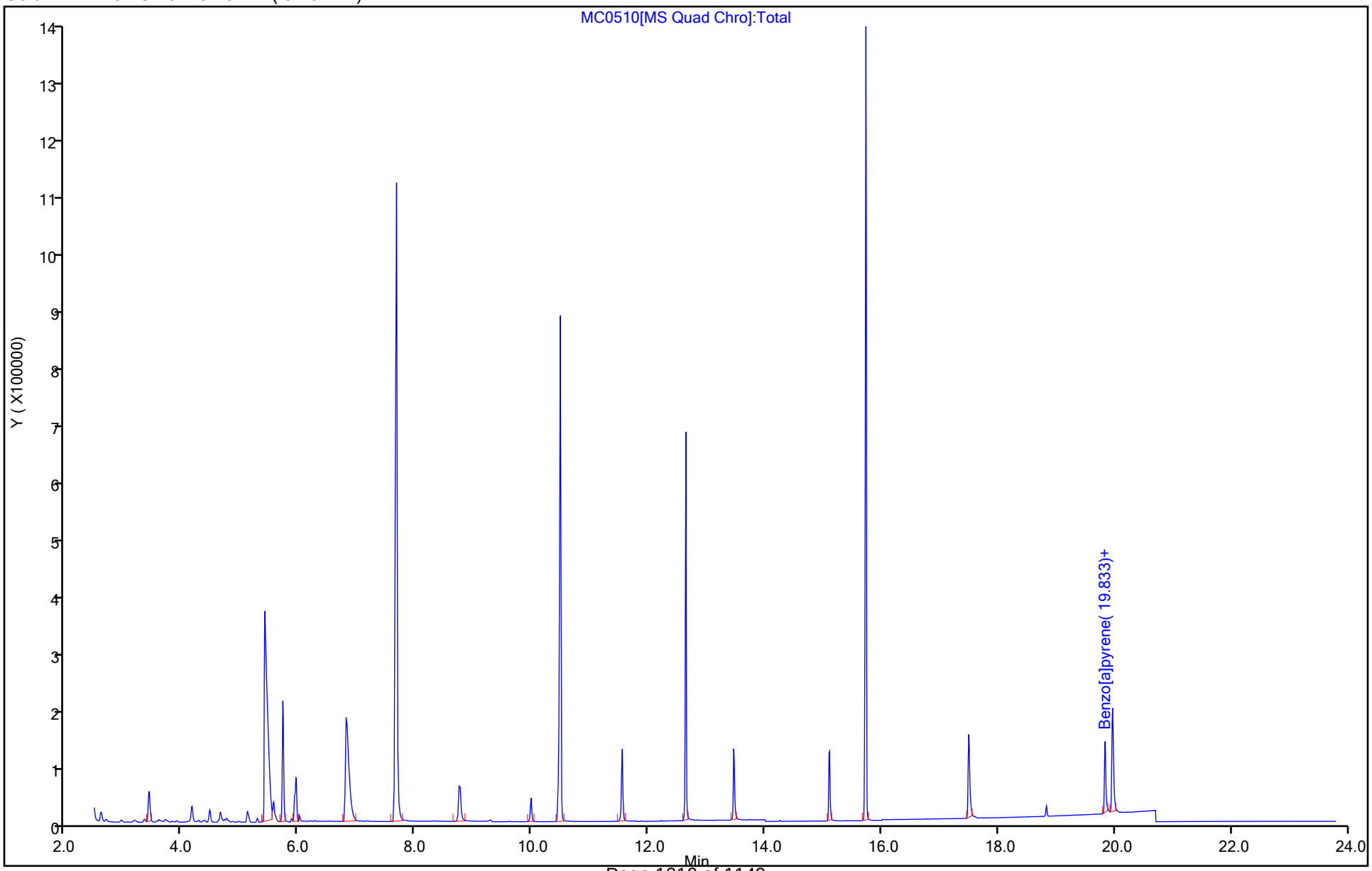
MSS_RVSIM_IS_00022 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 10-Mar-2022 05:08:01 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0510.D				
Injection Date:	09-Mar-2022 23:45:18	Instrument ID:	HP21585	Operator ID:	kel10217
Lims ID:	410-74987-D-2-A	Lab Sample ID:	410-74987-2	Worklist Smp#:	11
Client ID:	FBS010_03032022				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0510.D
Lims ID: 410-74987-D-2-A
Client ID: FBS010_03032022
Sample Type: Client
Inject. Date: 09-Mar-2022 23:45:18 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-74987-D-2-A
Misc. Info.: 410-0052091-011
Operator ID: kel10217 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 10-Mar-2022 05:07:52 Calib Date: 25-Jan-2022 08:29:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: gamblerj Date: 10-Mar-2022 05:02:38

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1634	65.34
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1966	78.64
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1722	68.89

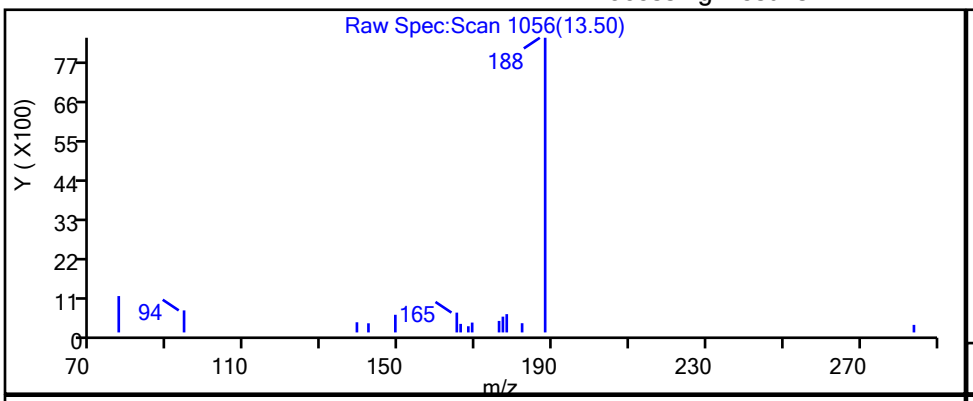
User Disabled Compound Report

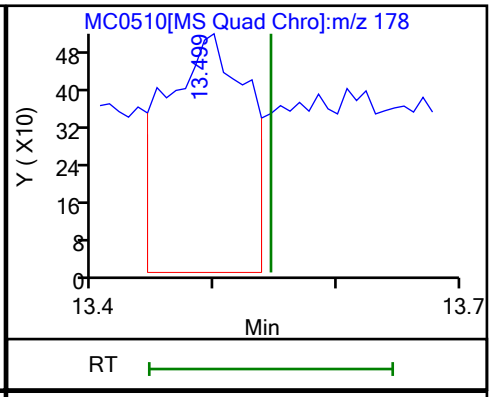
Eurofins Lancaster Laboratories Env, LLC

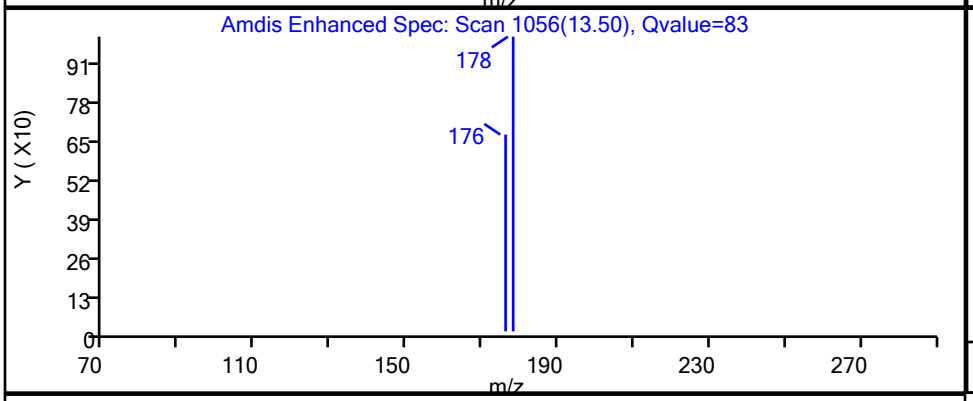
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0510.D				
Injection Date:	09-Mar-2022 23:45:18	Instrument ID:	HP21585		
Lims ID:	410-74987-D-2-A	Lab Sample ID:	410-74987-2		
Client ID:	FBS010_03032022				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

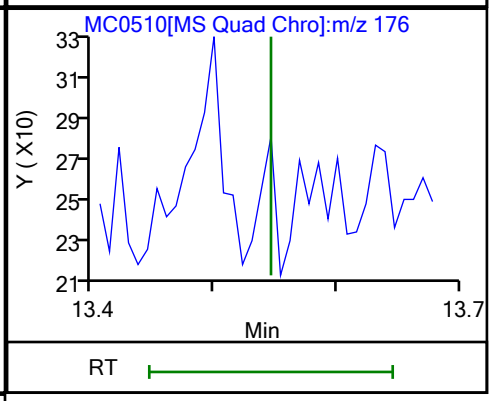
22 Anthracene, CAS: 120-12-7

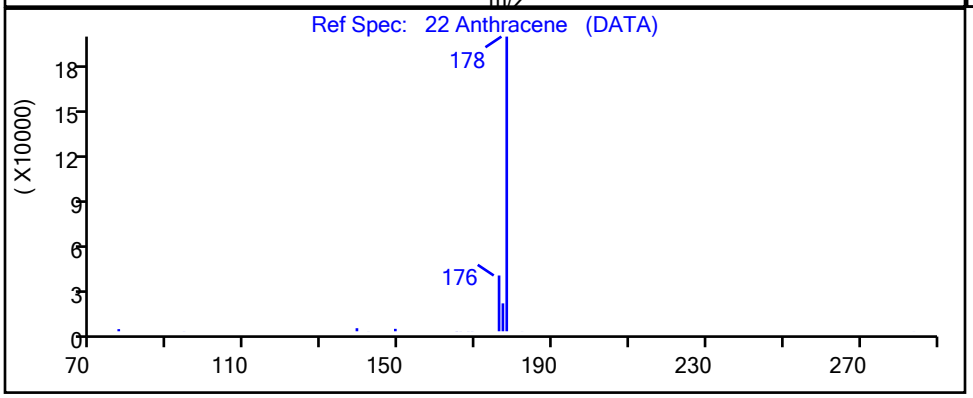
Processing Results











RT	Mass	Response	Amount
13.50	178.00	2370	0.003041
13.55	176.00	0	

Reviewer: gamblerj, 10-Mar-2022 05:02:31

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

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 217423

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/25/2022 05:48 Calibration End Date: 01/25/2022 08:29 Calibration ID: 34940

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-217423/7	MA0856.D
Level 2	IC 410-217423/6	MA0855.D
Level 3	IC 410-217423/5	MA0854.D
Level 4	ICIS 410-217423/2	MA0851.D
Level 5	IC 410-217423/4	MA0853.D
Level 6	IC 410-217423/3	MA0852.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 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.7794 0.7733	0.7045	0.6615	0.8884	0.6424	Ave		0.7416				12.3		20.4			
N-Nitrosodimethylamine	0.7651 0.8361	0.6805	0.7021	0.8077	0.7030	Ave		0.7491				8.5		20.4			
Bis(2-chloroethyl)ether	0.3702 0.3632	0.3196	0.3581	0.3687	0.3574	Ave		0.3562				5.2		20.4			
Naphthalene	1.3592 1.0396	1.0822	1.0435	1.0915	1.0029	Ave		1.1031				11.7		20.4			
Quinoline	0.4147 0.6267	0.4625	0.5169	0.6369	0.5710	Ave		0.5381				16.6		20.4			
2-Methylnaphthalene	0.8233 0.7686	0.7188	0.7069	0.8162	0.7071	Ave		0.7568				7.1		20.4			
1-Methylnaphthalene	0.8425 0.7334	0.7114	0.6833	0.7692	0.6605	Ave		0.7334				8.9		20.4			
Dimethylphthalate	1.2888 1.2029	1.2084	1.2414	1.2884	1.2475	Ave		1.2462				3.0		20.4			
Acenaphthylene	1.9121 1.6516	1.5296	1.5266	1.6855	1.5982	Ave		1.6506				8.7		20.4			
Acenaphthene	1.3940 1.0564	1.1043	1.0655	1.1276	1.0481	Ave		1.1327				11.6		20.4			
Dibenzofuran	1.9742 1.6520	1.6889	1.6288	1.8021	1.6426	Ave		1.7314				7.8		20.4			
Diethylphthalate	1.1670 1.1093	1.0799	1.1178	1.2258	1.1560	Ave		1.1427				4.5		20.4			
Fluorene	1.5696 1.3455	1.3147	1.3097	1.4924	1.3296	Ave		1.3936				7.9		20.4			
N-Nitrosodiphenylamine	0.8177 0.4295	0.4432	0.4493	0.4642	0.4251	Lin2	0.0039	0.4184							0.9940		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 217423

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/25/2022 05:48 Calibration End Date: 01/25/2022 08:29 Calibration ID: 34940

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 3	LVL 4	LVL 5		B	M1	M2								
Hexachlorobenzene	0.3126 0.2445	0.2463	0.2447	0.2617	0.2380	Ave		0.2580				10.8		20.4			
Phenanthrene	1.4087 1.0240	1.0322	1.0232	1.0933	0.9929	Ave		1.0957				14.3		20.4			
Anthracene	1.2003 0.9893	0.9598	0.9277	1.0617	0.9640	Ave		1.0171				9.9		20.4			
Di-n-butyl phthalate	0.8964 0.8533	0.8261	0.9028	1.0173	0.9598	Ave		0.9093				7.7		20.4			
Fluoranthene	1.6171 1.3164	1.2467	1.2771	1.4937	1.2989	Ave		1.3750				10.7		20.4			
Pyrene	1.5265 1.1431	1.1390	1.1416	1.2016	1.1283	Ave		1.2133				12.8		20.4			
Butylbenzylphthalate	0.3365 0.3630	0.3140	0.3506	0.3703	0.3768	Ave		0.3519				6.7		20.4			
Benzo[a]anthracene	1.4080 1.1978	1.0354	1.0785	1.2347	1.1546	Ave		1.1848				11.1		20.4			
Chrysene	1.7949 1.2325	1.3155	1.3074	1.3262	1.2248	Ave		1.3669				15.7		20.4			
Bis(2-ethylhexyl) phthalate	0.4646 0.5309	0.4454	0.4965	0.5243	0.5372	Ave		0.4998				7.6		20.4			
Di-n-octyl phthalate	0.7323 0.6345	0.6791	0.7505	0.7749	0.7791	Ave		0.7251				7.9		20.4			
Benzo[b]fluoranthene	1.3738 1.1079	1.0507	1.0982	1.1927	1.0663	Ave		1.1483				10.5		20.4			
Benzo[k]fluoranthene	1.7424 1.1118	1.2519	1.2698	1.2830	1.1932	Ave		1.3087				16.9		20.4			
Benzo[e]pyrene	1.4452 1.0321	1.0881	1.0997	1.1575	1.0459	Ave		1.1447				13.4		20.4			
Benzo[a]pyrene	1.3667 1.0509	1.0020	1.0602	1.1469	1.0550	Ave		1.1136				11.9		20.4			
Perylene	1.5709 1.0271	1.1387	1.1475	1.1647	1.0507	Ave		1.1833				16.7		20.4			
Indeno[1,2,3-cd]pyrene	1.1694 1.0835	0.9481	0.9955	1.0950	1.0066	Ave		1.0497				7.7		20.4			
Dibenz(a,h)anthracene	1.2659 1.2253	1.0300	1.0696	1.2571	1.1852	Ave		1.1722				8.5		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 217423

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/25/2022 05:48 Calibration End Date: 01/25/2022 08:29 Calibration ID: 34940

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 3	LVL 4	LVL 5		B	M1	M2								
Benzo[g,h,i]perylene	1.6496 1.2309	1.2354	1.2248	1.3381	1.2304	Ave		1.3182				12.7		20.4			
1-Methylnaphthalene-d10 (Surr)	0.7413 0.6345	0.6317	0.6056	0.6756	0.5801	Ave		0.6448				8.8		20.4			
Fluoranthene-d10 (Surr)	1.7111 1.1331	1.1480	1.1179	1.2904	1.1150	Ave		1.2526				18.7		20.4			
Benzo(a)pyrene-d12 (Surr)	+++++ 0.8554	0.8625	0.8439	0.9300	0.8555	Ave		0.8695				4.0		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 217423

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/25/2022 05:48 Calibration End Date: 01/25/2022 08:29 Calibration ID: 34940

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-217423/7	MA0856.D
Level 2	IC 410-217423/6	MA0855.D
Level 3	IC 410-217423/5	MA0854.D
Level 4	ICIS 410-217423/2	MA0851.D
Level 5	IC 410-217423/4	MA0853.D
Level 6	IC 410-217423/3	MA0852.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	2125 526567	9931	20321	113540	201900	0.0100 2.50	0.0500	0.100	0.500	1.00
N-Nitrosodimethylamine	DCBd 4	Ave	2086 569326	9593	21571	103228	220960	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-chloroethyl)ether	NPT	Ave	3381 833157	15388	37343	152726	385646	0.0100 2.50	0.0500	0.100	0.500	1.00
Naphthalene	NPT	Ave	12415 2384491	52104	108805	452146	1082061	0.0100 2.50	0.0500	0.100	0.500	1.00
Quinoline	NPT	Ave	3788 1437432	22269	53896	263846	616053	0.0100 2.50	0.0500	0.100	0.500	1.00
2-Methylnaphthalene	NPT	Ave	7520 1762888	34608	73704	338121	762962	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene	NPT	Ave	7695 1682338	34249	71246	318636	712631	0.0100 2.50	0.0500	0.100	0.500	1.00
Dimethylphthalate	ANT	Ave	207904 8552796	419730	908216	2029151	4579993	0.250 10.0	0.500	1.00	2.50	5.00
Acenaphthylene	ANT	Ave	12338 2935834	53127	111684	530901	1173484	0.0100 2.50	0.0500	0.100	0.500	1.00
Acenaphthene	ANT	Ave	8995 1877856	38357	77951	355183	769562	0.0100 2.50	0.0500	0.100	0.500	1.00
Dibenzofuran	ANT	Ave	12739 2936441	58659	119163	567610	1206139	0.0100 2.50	0.0500	0.100	0.500	1.00
Diethylphthalate	ANT	Ave	188261 7887337	375091	817817	1930500	4244196	0.250 10.0	0.500	1.00	2.50	5.00
Fluorene	ANT	Ave	10128	45665	95820	470069	976262	0.0100	0.0500	0.100	0.500	1.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 217423

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/25/2022 05:48 Calibration End Date: 01/25/2022 08:29 Calibration ID: 34940

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			2391627					2.50				
N-Nitrosodiphenylamine	PHN	Lin2	10760 1574485	31666	67041	320743	656110	0.0100 2.50	0.0500	0.100	0.500	1.00
Hexachlorobenzene	PHN	Ave	4114 896290	17594	36512	180781	367427	0.0100 2.50	0.0500	0.100	0.500	1.00
Phenanthrene	PHN	Ave	18538 3753897	73747	152691	755350	1532589	0.0100 2.50	0.0500	0.100	0.500	1.00
Anthracene	PHN	Ave	15795 3626607	68571	138441	733573	1487896	0.0100 2.50	0.0500	0.100	0.500	1.00
Di-n-butyl phthalate	PHN	Ave	294909 12513211	590239	1347265	3514233	7407070	0.250 10.0	0.500	1.00	2.50	5.00
Fluoranthene	PHN	Ave	21281 4825897	89070	190574	1031981	2004865	0.0100 2.50	0.0500	0.100	0.500	1.00
Pyrene	CRY	Ave	22836 5030384	92705	196933	1083812	2086640	0.0100 2.50	0.0500	0.100	0.500	1.00
Butylbenzylphthalate	CRY	Ave	125839 6390635	255544	604710	1669774	3484417	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[a]anthracene	CRY	Ave	21064 5271386	84274	186034	1113692	2135252	0.0100 2.50	0.0500	0.100	0.500	1.00
Chrysene	CRY	Ave	26852 5423860	107075	225519	1196146	2265099	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-ethylhexyl) phthalate	CRY	Ave	173776 9345362	362560	856442	2364551	4967171	0.250 10.0	0.500	1.00	2.50	5.00
Di-n-octyl phthalate	PRY	Ave	300061 14385247	633504	1489830	4136629	8695911	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[b]fluoranthene	PRY	Ave	22518 6278886	98017	218005	1273323	2380399	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[k]fluoranthene	PRY	Ave	28560 6301319	116782	252069	1369691	2663567	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[e]pyrene	PRY	Ave	23688 5849526	101500	218312	1235722	2334698	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[a]pyrene	PRY	Ave	22402 5956064	93472	210473	1224450	2355135	0.0100 2.50	0.0500	0.100	0.500	1.00
Perylene	PRY	Ave	25748 5820950	106218	227809	1243483	2345497	0.0100 2.50	0.0500	0.100	0.500	1.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	19168	88438	197615	1169047	2246951	0.0100	0.0500	0.100	0.500	1.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 217423

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/25/2022 05:48 Calibration End Date: 01/25/2022 08:29 Calibration ID: 34940

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			6140663					2.50				
Dibenz(a,h)anthracene	PRY	Ave	20749 6944335	96078	212325	1342136	2645849	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[g,h,i]perylene	PRY	Ave	27039 6976077	115238	243146	1428524	2746569	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene-d10 (Surr)	NPT	Ave	6771 1455382	30412	63145	279872	625912	0.0100 2.50	0.0500	0.100	0.500	1.00
Fluoranthene-d10 (Surr)	PHN	Ave	22517 4153822	82021	166819	891564	1721044	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo(a)pyrene-d12 (Surr)	PRY	Ave	+++++ 4847905	80459	167536	992822	1909684	+++++ 2.50	0.0500	0.100	0.500	1.00

Curve Type Legend

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-74987-1 Analy Batch No.: 217423

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/25/2022 05:48 Calibration End Date: 01/25/2022 08:29 Calibration ID: 34940

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-217423/7	MA0856.D
Level 2	IC 410-217423/6	MA0855.D
Level 3	IC 410-217423/5	MA0854.D
Level 4	ICIS 410-217423/2	MA0851.D
Level 5	IC 410-217423/4	MA0853.D
Level 6	IC 410-217423/3	MA0852.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
N-Nitrosodiphenylamine	2.5	-12.6	-1.9	9.1	0.7	2.3	50	30	30	30	30	30

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0851.D
Lims ID: ICIS L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 25-Jan-2022 05:48:39 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS L4
Misc. Info.: 410-0048994-002, 4
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 25-Jan-2022 13:07:06 Calib Date: 25-Jan-2022 08:29:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: transuea Date: 25-Jan-2022 13:07:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	3.058	3.058	0.000	96	113540	0.5000	0.5990	
2 N-Nitrosodimethylamine	74	3.518	3.518	0.000	94	103228	0.5000	0.5391	
3 Bis(2-chloroethyl)ether	93	6.643	6.643	0.000	91	152726	0.5000	0.5175	
* 4 1,4-Dichlorobenzene-d4	152	6.993	6.993	0.000	96	63900	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.910	8.910	0.000	91	207121	0.2500	0.2500	
6 Naphthalene	128	8.951	8.951	0.000	93	452146	0.5000	0.4947	
7 Quinoline	129	9.481	9.481	0.000	84	263846	0.5000	0.5918	
8 2-Methylnaphthalene	142	10.056	10.056	0.000	95	338121	0.5000	0.5393	
$ 9 1-Methylnaphthalene-d10	152	10.141	10.141	0.000	100	279872	0.5000	0.5239	
10 1-Methylnaphthalene	142	10.203	10.203	0.000	96	318636	0.5000	0.5244	
11 Dimethyl phthalate	163	11.340	11.340	0.000	95	2029151	2.50	2.58	
12 Acenaphthylene	152	11.486	11.486	0.000	99	530901	0.5000	0.5106	
* 13 Acenaphthene-d10	164	11.694	11.694	0.000	94	157490	0.2500	0.2500	
14 Acenaphthene	154	11.743	11.743	0.000	93	355183	0.5000	0.4978	
15 Dibenzofuran	168	11.989	11.989	0.000	100	567610	0.5000	0.5204	
16 Diethyl phthalate	149	12.332	12.332	0.000	97	1930500	2.50	2.68	
17 Fluorene	166	12.426	12.426	0.000	95	470069	0.5000	0.5354	
18 N-Nitrosodiphenylamine	169	12.590	12.590	0.000	98	320743	0.5000	0.5455	
19 Hexachlorobenzene	284	13.082	13.082	0.000	90	180781	0.5000	0.5072	
* 20 Phenanthrene-d10	188	13.589	13.589	0.000	99	345456	0.2500	0.2500	
21 Phenanthrene	178	13.612	13.612	0.000	100	755350	0.5000	0.4989	
22 Anthracene	178	13.683	13.683	0.000	100	733573	0.5000	0.5219	
23 Di-n-butyl phthalate	149	14.405	14.405	0.000	100	3514233	2.50	2.80	
$ 24 Fluoranthene-d10 (Surr)	212	15.245	15.245	0.000	99	891564	0.5000	0.5151	
25 Fluoranthene	202	15.277	15.277	0.000	99	1031981	0.5000	0.5432	
26 Pyrene	202	15.621	15.621	0.000	97	1083812	0.5000	0.4952	
27 Butyl benzyl phthalate	149	16.748	16.748	0.000	100	1669774	2.50	2.63	
28 Benzo[a]anthracene	228	17.637	17.637	0.000	100	1113692	0.5000	0.5211	
* 29 Chrysene-d12	240	17.653	17.653	0.000	89	450984	0.2500	0.2500	
30 Chrysene	228	17.699	17.699	0.000	100	1196146	0.5000	0.4851	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.799	17.799	0.000	97	2364551	2.50	2.62	
32 Di-n-octyl phthalate	149	18.972	18.972	0.000	100	4136629	2.50	2.67	
33 Benzo[b]fluoranthene	252	19.501	19.501	0.000	100	1273323	0.5000	0.5193	
34 Benzo[k]fluoranthene	252	19.547	19.547	0.000	100	1369691	0.5000	0.4902	
35 Benzo[e]pyrene	252	19.946	19.946	0.000	100	1235722	0.5000	0.5056	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.992	19.992	0.000	98	992822	0.5000	0.5348	
37 Benzo[a]pyrene	252	20.030	20.030	0.000	100	1224450	0.5000	0.5149	
* 38 Perylene-d12	264	20.122	20.122	0.000	98	533802	0.2500	0.2500	
39 Perylene	252	20.168	20.168	0.000	100	1243483	0.5000	0.4922	
40 Indeno[1,2,3-cd]pyrene	276	21.787	21.787	0.000	98	1169047	0.5000	0.5216	M
41 Dibenz(a,h)anthracene	278	21.829	21.829	0.000	96	1342136	0.5000	0.5362	
42 Benzo[g,h,i]perylene	276	22.225	22.225	0.000	94	1428524	0.5000	0.5075	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00019 Amount Added: 1.00 Units: mL

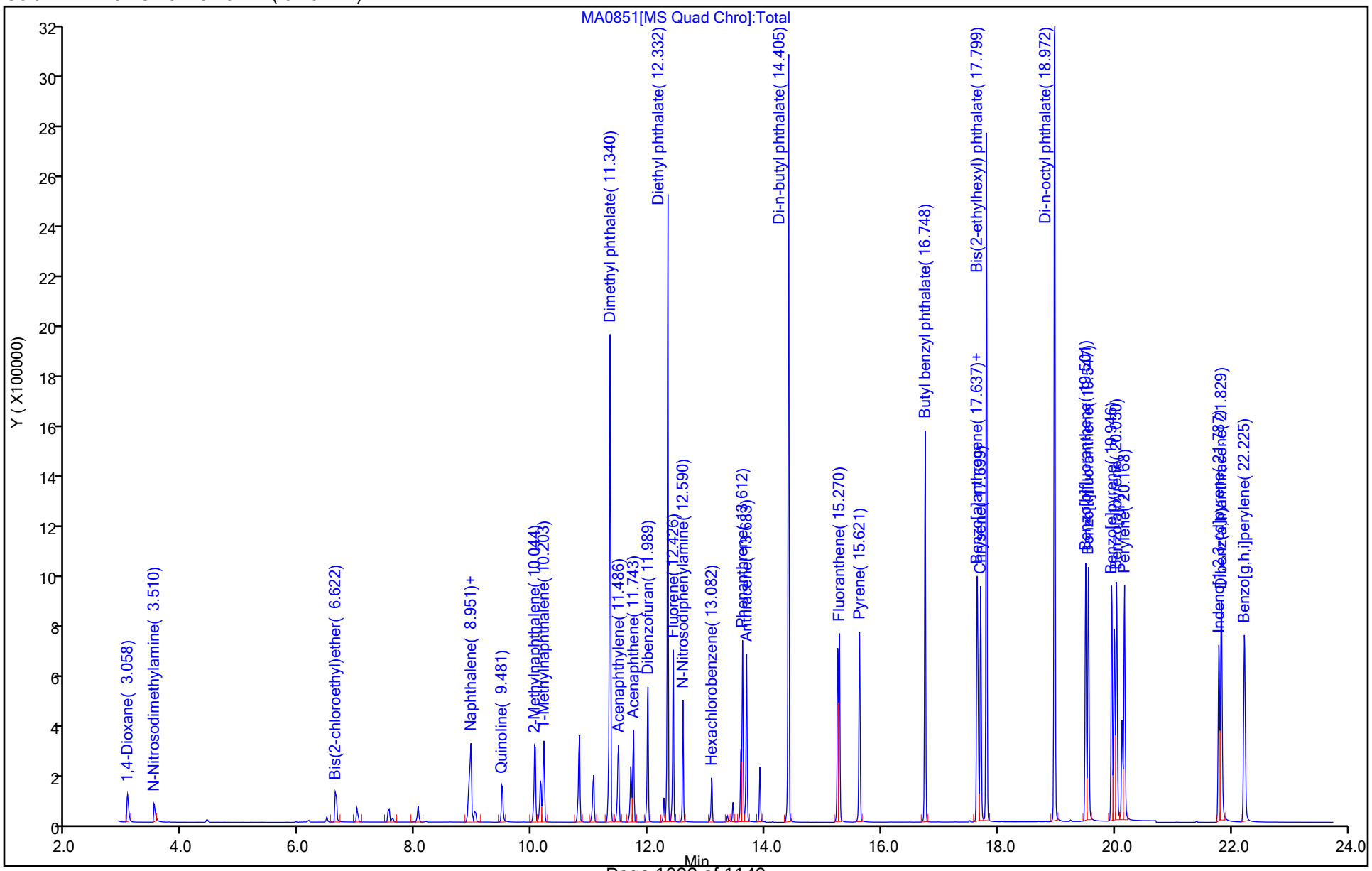
Report Date: 25-Jan-2022 13:07:07 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0851.D

Injection Date:	25-Jan-2022 05:48:39	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	ICIS L4			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

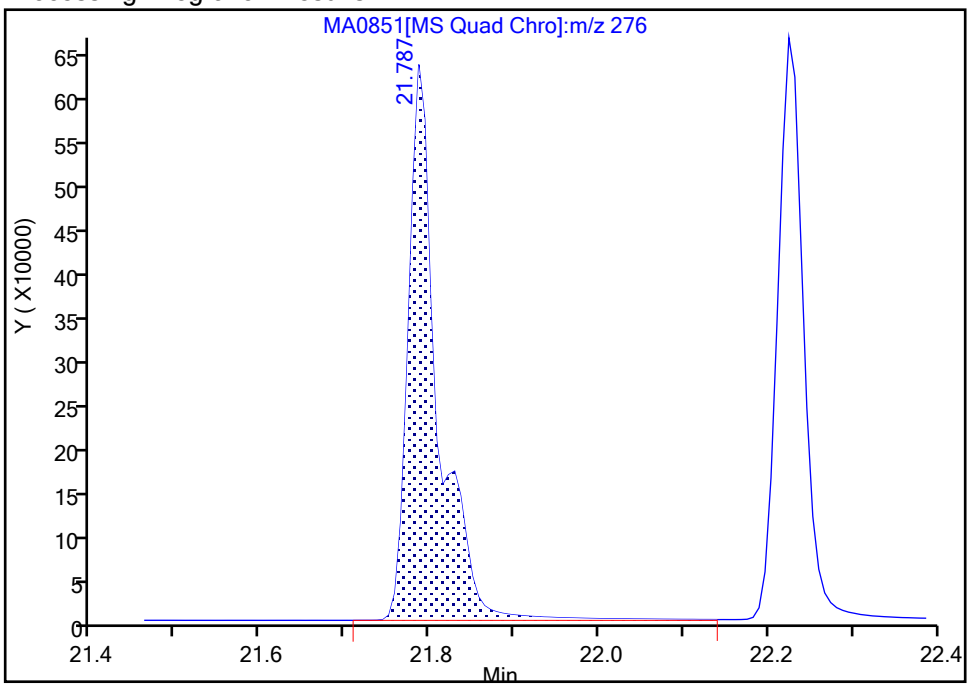
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0851.D				
Injection Date:	25-Jan-2022 05:48:39	Instrument ID:	HP21585		
Lims ID:	ICIS L4				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

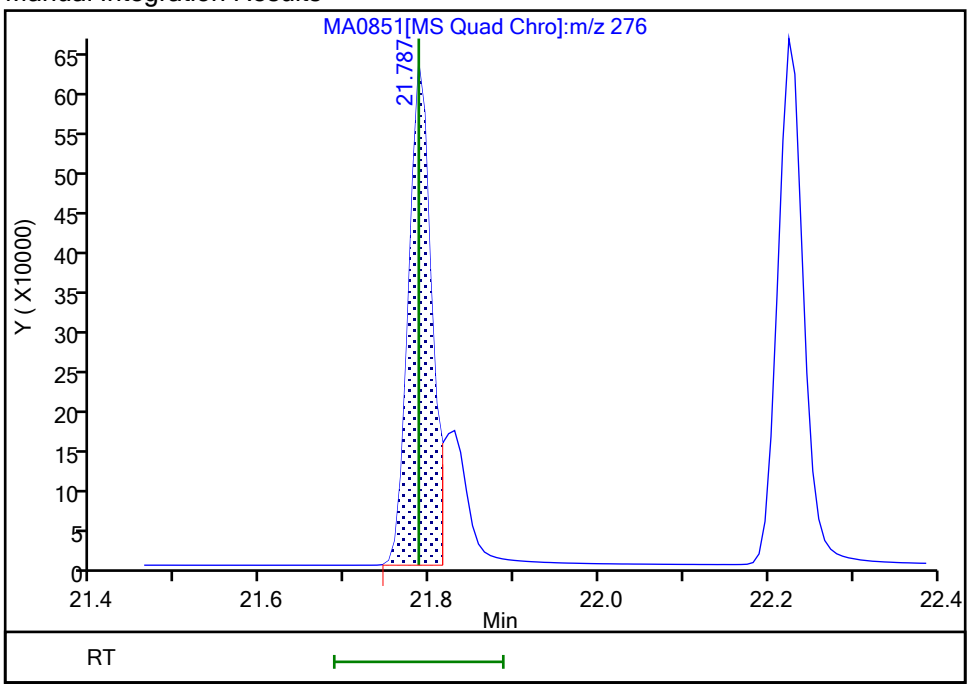
Processing Integration Results

RT: 21.79
Area: 1530985
Amount: 0.500000
Amount Units: ug/ml



Manual Integration Results

RT: 21.79
Area: 1169047
Amount: 0.521605
Amount Units: ug/ml



Reviewer: gamblerj, 25-Jan-2022 06:27:39

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0852.D
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 25-Jan-2022 06:30:09 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L6
Misc. Info.: 410-0048994-003
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 25-Jan-2022 13:07:09 Calib Date: 25-Jan-2022 08:29:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: transuea Date: 25-Jan-2022 12:57:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	3.058	3.058	0.000	97	526567	2.50	2.61	
2 N-Nitrosodimethylamine	74	3.503	3.518	-0.015	92	569326	2.50	2.79	
3 Bis(2-chloroethyl)ether	93	6.643	6.643	0.000	94	833157	2.50	2.55	
* 4 1,4-Dichlorobenzene-d4	152	6.993	6.993	0.000	95	68094	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.910	8.910	0.000	91	229375	0.2500	0.2500	
6 Naphthalene	128	8.951	8.951	0.000	93	2384491	2.50	2.36	
7 Quinoline	129	9.481	9.481	0.000	84	1437432	2.50	2.91	
8 2-Methylnaphthalene	142	10.056	10.056	0.000	95	1762888	2.50	2.54	
$ 9 1-Methylnaphthalene-d10	152	10.154	10.141	0.013	100	1455382	2.50	2.46	
10 1-Methylnaphthalene	142	10.202	10.203	-0.001	96	1682338	2.50	2.50	
11 Dimethyl phthalate	163	11.339	11.340	-0.001	99	8552796	10.0	9.65	
12 Acenaphthylene	152	11.486	11.486	0.000	99	2935834	2.50	2.50	
* 13 Acenaphthene-d10	164	11.694	11.694	0.000	94	177754	0.2500	0.2500	
14 Acenaphthene	154	11.743	11.743	0.000	93	1877856	2.50	2.33	
15 Dibenzofuran	168	11.989	11.989	0.000	99	2936441	2.50	2.39	
16 Diethyl phthalate	149	12.332	12.332	0.000	98	7887337	10.0	9.71	
17 Fluorene	166	12.426	12.426	0.000	95	2391627	2.50	2.41	
18 N-Nitrosodiphenylamine	169	12.590	12.590	0.000	99	1574485	2.50	2.56	
19 Hexachlorobenzene	284	13.089	13.082	0.007	91	896290	2.50	2.37	
* 20 Phenanthrene-d10	188	13.589	13.589	0.000	95	366599	0.2500	0.2500	
21 Phenanthrene	178	13.612	13.612	0.000	100	3753897	2.50	2.34	
22 Anthracene	178	13.683	13.683	0.000	100	3626607	2.50	2.43	
23 Di-n-butyl phthalate	149	14.405	14.405	0.000	100	12513211	10.0	9.38	
$ 24 Fluoranthene-d10 (Surr)	212	15.245	15.245	0.000	97	4153822	2.50	2.26	
25 Fluoranthene	202	15.277	15.277	0.000	100	4825897	2.50	2.39	
26 Pyrene	202	15.621	15.621	0.000	100	5030384	2.50	2.36	
27 Butyl benzyl phthalate	149	16.755	16.748	0.007	100	6390635	10.0	10.3	
28 Benzo[a]anthracene	228	17.637	17.637	0.000	100	5271386	2.50	2.53	
* 29 Chrysene-d12	240	17.653	17.653	0.000	64	440077	0.2500	0.2500	
30 Chrysene	228	17.699	17.699	0.000	100	5423860	2.50	2.25	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.806	17.799	0.008	97	9345362	10.0	10.6	
32 Di-n-octyl phthalate	149	18.980	18.972	0.008	100	14385247	10.0	8.75	
33 Benzo[b]fluoranthene	252	19.509	19.501	0.008	100	6278886	2.50	2.41	
34 Benzo[k]fluoranthene	252	19.555	19.547	0.008	100	6301319	2.50	2.12	
35 Benzo[e]pyrene	252	19.954	19.946	0.008	100	5849526	2.50	2.25	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.000	19.992	0.008	98	4847905	2.50	2.46	
37 Benzo[a]pyrene	252	20.038	20.030	0.008	100	5956064	2.50	2.36	
* 38 Perylene-d12	264	20.130	20.122	0.008	99	566756	0.2500	0.2500	
39 Perylene	252	20.176	20.168	0.008	100	5820950	2.50	2.17	
40 Indeno[1,2,3-cd]pyrene	276	21.794	21.787	0.007	98	6140663	2.50	2.58	M
41 Dibenz(a,h)anthracene	278	21.836	21.829	0.007	95	6944335	2.50	2.61	
42 Benzo[g,h,i]perylene	276	22.232	22.225	0.007	94	6976077	2.50	2.33	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_6_00012 Amount Added: 1.00 Units: mL

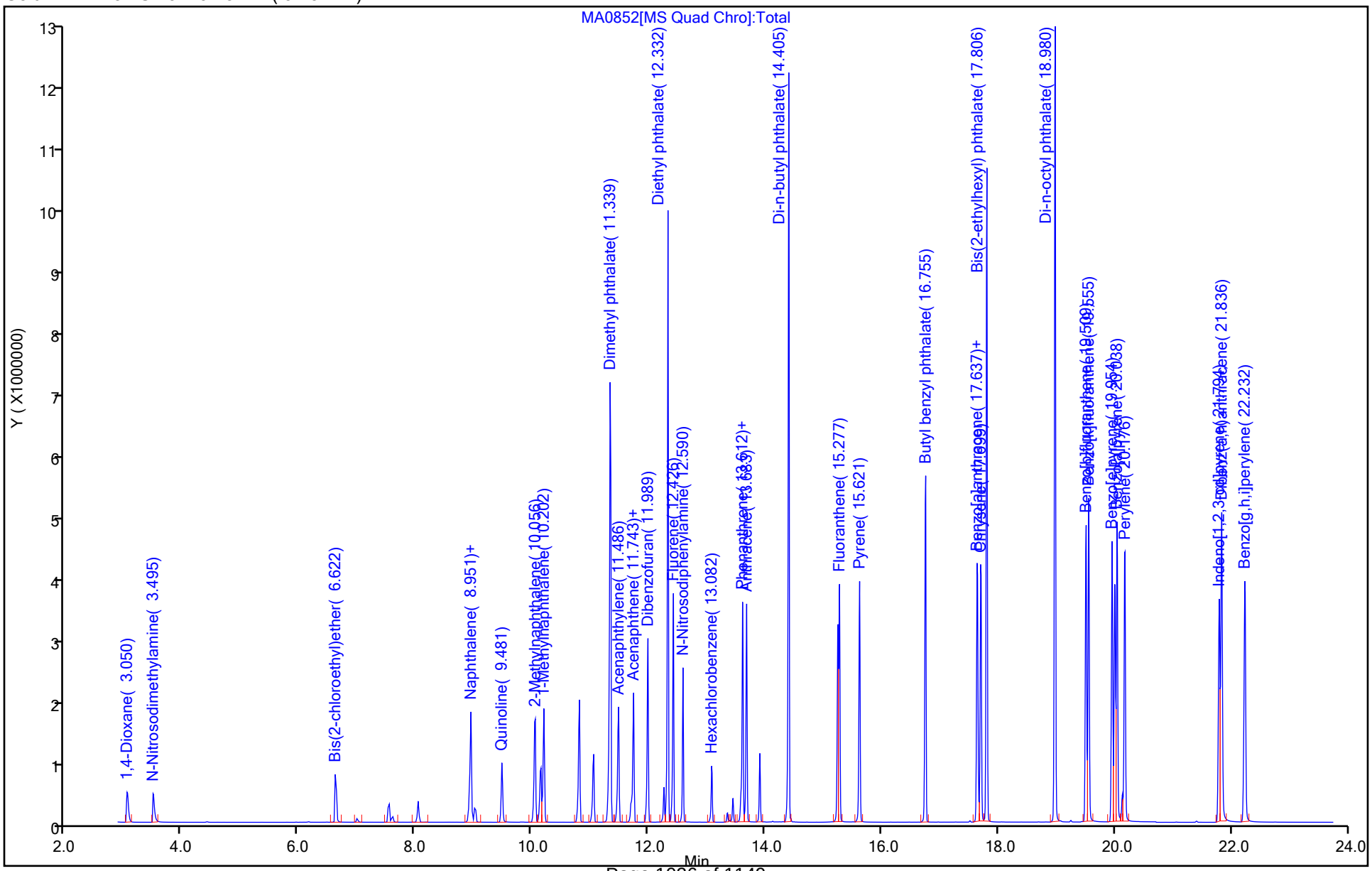
Report Date: 25-Jan-2022 13:07:10 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0852.D

Injection Date:	25-Jan-2022 06:30:09	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	IC L6			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

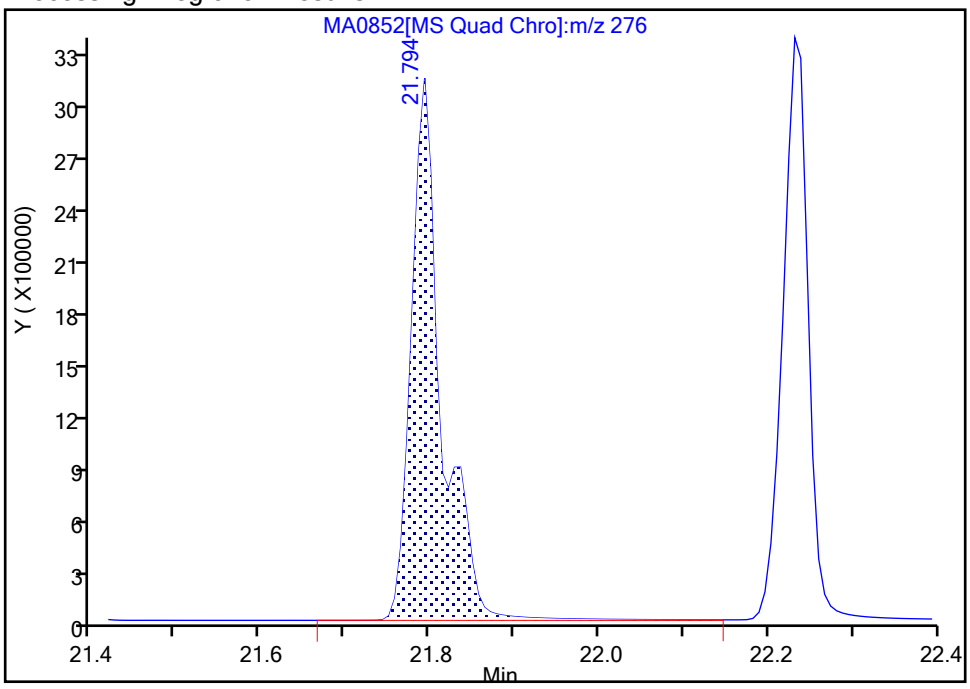
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0852.D				
Injection Date:	25-Jan-2022 06:30:09	Instrument ID:	HP21585		
Lims ID:	IC L6				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

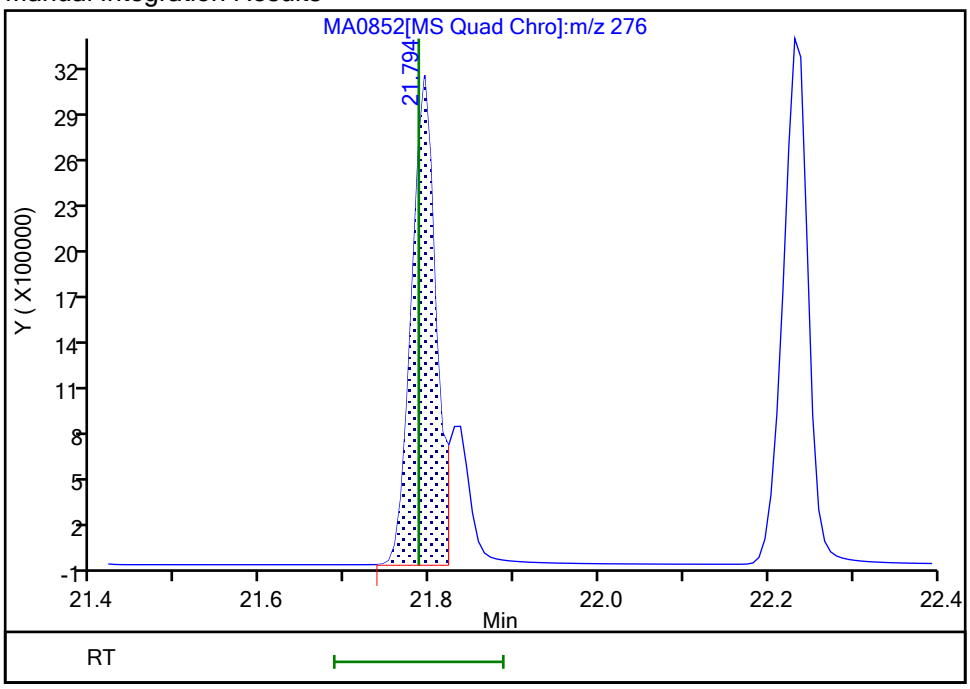
Processing Integration Results

RT: 21.79
Area: 7692177
Amount: 2.724143
Amount Units: ug/ml



Manual Integration Results

RT: 21.79
Area: 6140663
Amount: 2.580533
Amount Units: ug/ml



Reviewer: transuea, 25-Jan-2022 12:57:40

Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0853.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 25-Jan-2022 06:59:47 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L5
Misc. Info.: 410-0048994-004
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 25-Jan-2022 13:07:12 Calib Date: 25-Jan-2022 08:29:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: transuea Date: 25-Jan-2022 12:58:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	3.058	3.058	0.000	97	201900	1.00	0.8662	
2 N-Nitrosodimethylamine	74	3.518	3.518	0.000	92	220960	1.00	0.9385	
3 Bis(2-chloroethyl)ether	93	6.643	6.643	0.000	94	385646	1.00	1.00	
* 4 1,4-Dichlorobenzene-d4	152	6.994	6.993	0.001	97	78577	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.910	8.910	0.000	92	269741	0.2500	0.2500	
6 Naphthalene	128	8.951	8.951	0.000	93	1082061	1.00	0.9091	
7 Quinoline	129	9.481	9.481	0.000	84	616053	1.00	1.06	
8 2-Methylnaphthalene	142	10.044	10.056	-0.012	97	762962	1.00	0.9343	
$ 9 1-Methylnaphthalene-d10	152	10.142	10.141	0.001	100	625912	1.00	0.8997	
10 1-Methylnaphthalene	142	10.203	10.203	0.000	96	712631	1.00	0.9006	
11 Dimethyl phthalate	163	11.340	11.340	0.000	95	4579993	5.00	5.01	
12 Acenaphthylene	152	11.486	11.486	0.000	99	1173484	1.00	0.9682	
* 13 Acenaphthene-d10	164	11.694	11.694	0.000	91	183568	0.2500	0.2500	
14 Acenaphthene	154	11.743	11.743	0.000	93	769562	1.00	0.9253	
15 Dibenzofuran	168	11.989	11.989	0.000	100	1206139	1.00	0.9487	
16 Diethyl phthalate	149	12.332	12.332	0.000	99	4244196	5.00	5.06	
17 Fluorene	166	12.426	12.426	0.000	95	976262	1.00	0.9541	
18 N-Nitrosodiphenylamine	169	12.590	12.590	0.000	99	656110	1.00	1.01	
19 Hexachlorobenzene	284	13.082	13.082	0.000	90	367427	1.00	0.9228	
* 20 Phenanthrene-d10	188	13.581	13.589	-0.008	100	385885	0.2500	0.2500	
21 Phenanthrene	178	13.613	13.612	0.001	100	1532589	1.00	0.9062	
22 Anthracene	178	13.683	13.683	0.000	100	1487896	1.00	0.9477	
23 Di-n-butyl phthalate	149	14.404	14.405	-0.001	100	7407070	5.00	5.28	
$ 24 Fluoranthene-d10 (Surr)	212	15.244	15.245	-0.001	97	1721044	1.00	0.8902	
25 Fluoranthene	202	15.275	15.277	-0.002	100	2004865	1.00	0.9447	
26 Pyrene	202	15.620	15.621	-0.001	100	2086640	1.00	0.9299	
27 Butyl benzyl phthalate	149	16.745	16.748	-0.003	100	3484417	5.00	5.35	
28 Benzo[a]anthracene	228	17.635	17.637	-0.002	100	2135252	1.00	0.9745	
* 29 Chrysene-d12	240	17.650	17.653	-0.003	81	462337	0.2500	0.2500	
30 Chrysene	228	17.696	17.699	-0.003	100	2265099	1.00	0.8961	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.796	17.799	-0.002	97	4967171	5.00	5.37	
32 Di-n-octyl phthalate	149	18.969	18.972	-0.003	100	8695911	5.00	5.37	
33 Benzo[b]fluoranthene	252	19.498	19.501	-0.003	100	2380399	1.00	0.9286	
34 Benzo[k]fluoranthene	252	19.544	19.547	-0.003	100	2663567	1.00	0.9117	
35 Benzo[e]pyrene	252	19.951	19.946	0.005	100	2334698	1.00	0.9136	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.997	19.992	0.005	98	1909684	1.00	0.9839	
37 Benzo[a]pyrene	252	20.035	20.030	0.005	100	2355135	1.00	0.9474	
* 38 Perylene-d12	264	20.127	20.122	0.005	98	558082	0.2500	0.2500	
39 Perylene	252	20.166	20.168	-0.002	100	2345497	1.00	0.8880	
40 Indeno[1,2,3-cd]pyrene	276	21.784	21.787	-0.003	98	2246951	1.00	0.9589	M
41 Dibenz(a,h)anthracene	278	21.826	21.829	-0.003	96	2645849	1.00	1.01	
42 Benzo[g,h,i]perylene	276	22.229	22.225	0.004	94	2746569	1.00	0.9334	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_5_00014 Amount Added: 1.00 Units: mL

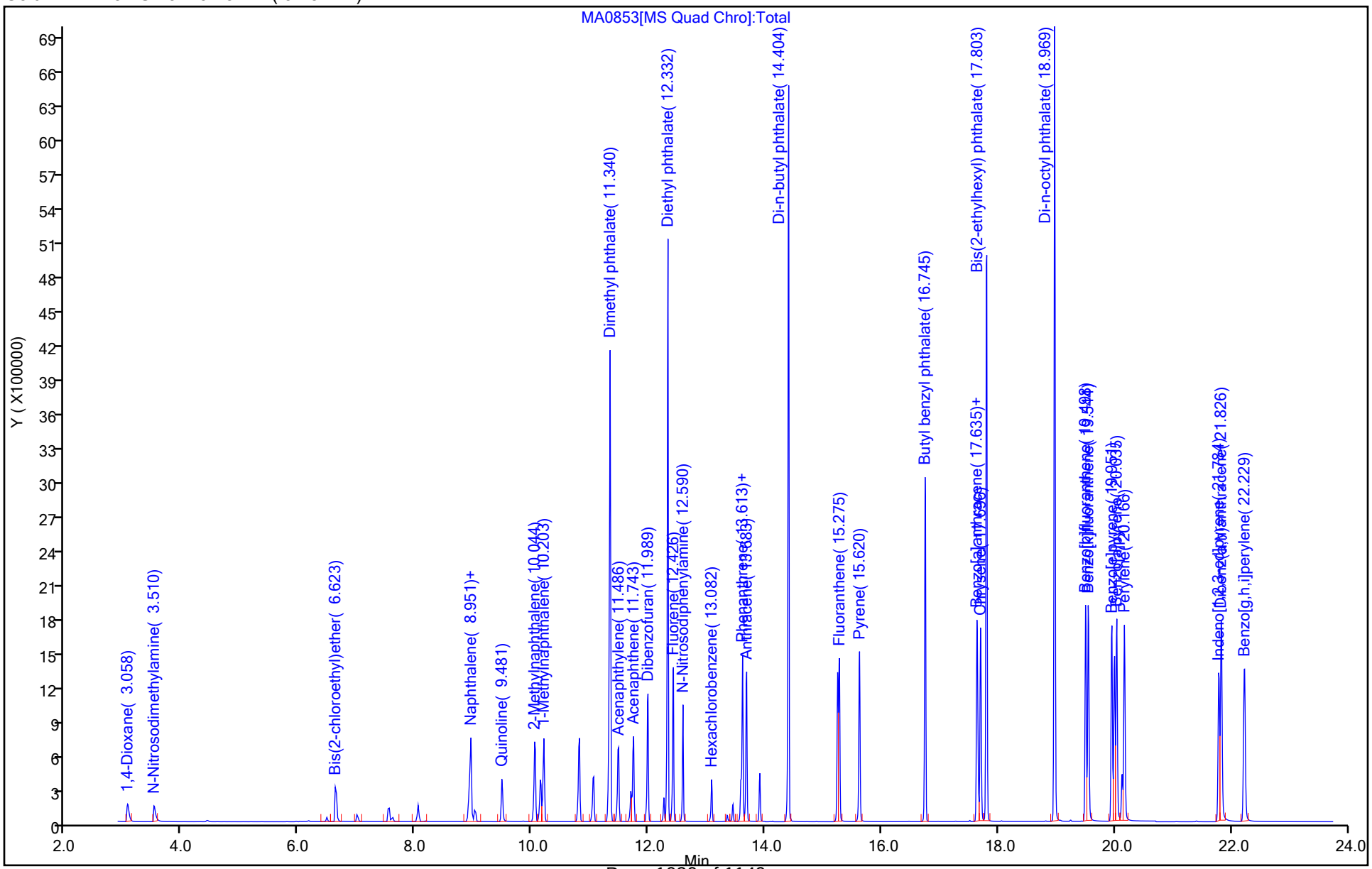
Report Date: 25-Jan-2022 13:07:13 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0853.D

Injection Date:	25-Jan-2022 06:59:47	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	IC L5			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

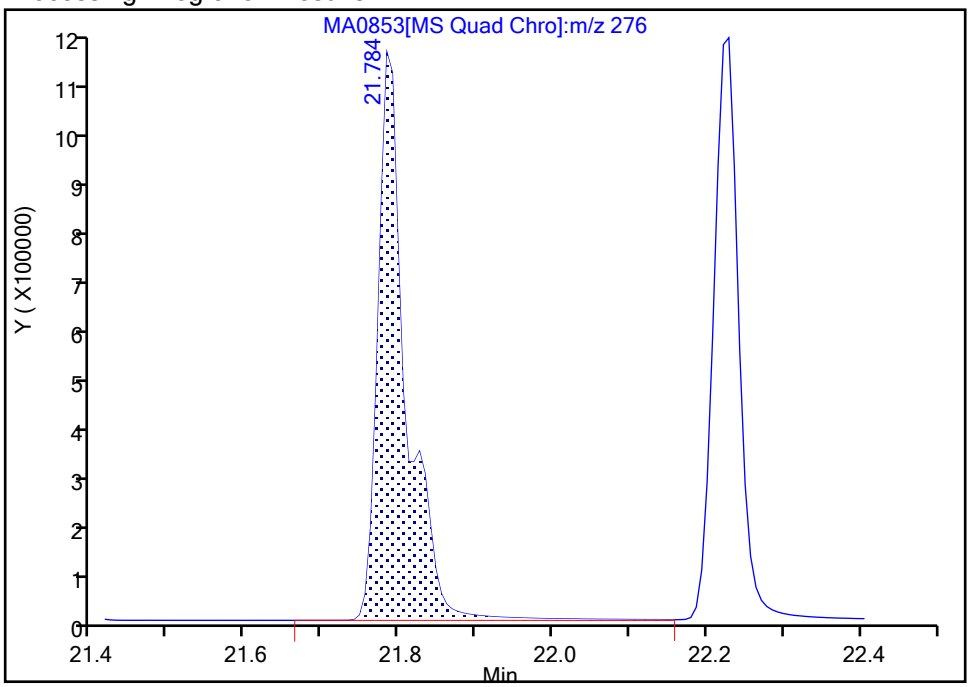
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0853.D				
Injection Date:	25-Jan-2022 06:59:47	Instrument ID:	HP21585		
Lims ID:	IC L5				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

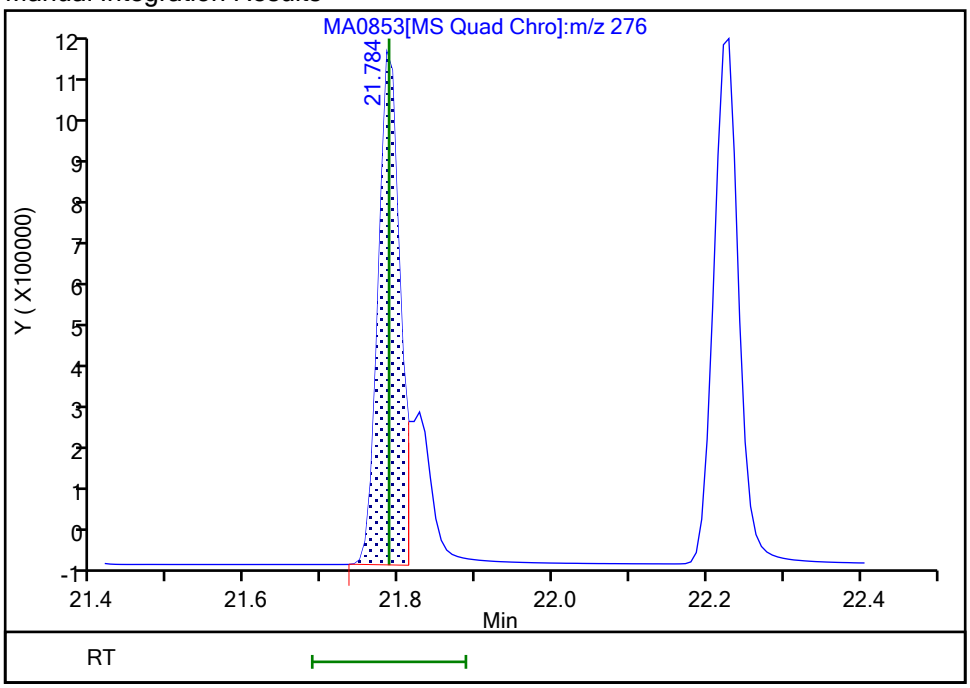
Processing Integration Results

RT: 21.78
Area: 2978529
Amount: 1.081486
Amount Units: ug/ml



Manual Integration Results

RT: 21.78
Area: 2246951
Amount: 0.958928
Amount Units: ug/ml



Reviewer: transuea, 25-Jan-2022 12:58:24

Audit Action: Manually Integrated Audit Reason: Split Peak

Report Date: 25-Jan-2022 13:07:16 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0854.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 25-Jan-2022 07:29:33 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L3
Misc. Info.: 410-0048994-005
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 25-Jan-2022 13:07:15 Calib Date: 25-Jan-2022 08:29:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: transuea Date: 25-Jan-2022 12:59:17

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	3.080	3.058	0.022	96	20321	0.1000	0.0892	
	2 N-Nitrosodimethylamine	74	3.555	3.518	0.037	92	21571	0.1000	0.0937	
	3 Bis(2-chloroethyl)ether	93	6.643	6.643	0.000	95	37343	0.1000	0.1005	
*	4 1,4-Dichlorobenzene-d4	152	6.993	6.993	0.000	99	76804	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.910	8.910	0.000	92	260668	0.2500	0.2500	
	6 Naphthalene	128	8.951	8.951	0.000	93	108805	0.1000	0.0946	
	7 Quinoline	129	9.493	9.481	0.012	84	53896	0.1000	0.0961	
	8 2-Methylnaphthalene	142	10.056	10.056	0.000	96	73704	0.1000	0.0934	
$	9 1-Methylnaphthalene-d10	152	10.141	10.141	0.000	100	63145	0.1000	0.0939	
	10 1-Methylnaphthalene	142	10.202	10.203	-0.001	97	71246	0.1000	0.0932	
	11 Dimethyl phthalate	163	11.339	11.340	-0.001	84	908216	1.00	1.00	
	12 Acenaphthylene	152	11.486	11.486	0.000	99	111684	0.1000	0.0925	
*	13 Acenaphthene-d10	164	11.694	11.694	0.000	96	182901	0.2500	0.2500	
	14 Acenaphthene	154	11.743	11.743	0.000	93	77951	0.1000	0.0941	
	15 Dibenzofuran	168	11.989	11.989	0.000	99	119163	0.1000	0.0941	
	16 Diethyl phthalate	149	12.324	12.332	-0.008	99	817817	1.00	0.9783	
	17 Fluorene	166	12.426	12.426	0.000	95	95820	0.1000	0.0940	
	18 N-Nitrosodiphenylamine	169	12.590	12.590	0.000	100	67041	0.1000	0.0981	
	19 Hexachlorobenzene	284	13.081	13.082	-0.001	90	36512	0.1000	0.0949	
*	20 Phenanthrene-d10	188	13.589	13.589	0.000	96	373071	0.2500	0.2500	
	21 Phenanthrene	178	13.612	13.612	0.000	100	152691	0.1000	0.0934	
	22 Anthracene	178	13.682	13.683	-0.001	100	138441	0.1000	0.0912	
	23 Di-n-butyl phthalate	149	14.399	14.405	-0.006	100	1347265	1.00	0.99	
$	24 Fluoranthene-d10 (Surr)	212	15.245	15.245	0.000	97	166819	0.1000	0.0892	
	25 Fluoranthene	202	15.277	15.277	0.000	99	190574	0.1000	0.0929	
	26 Pyrene	202	15.621	15.621	0.000	97	196933	0.1000	0.0941	
	27 Butyl benzyl phthalate	149	16.740	16.748	-0.008	100	604710	1.00	1.00	
	28 Benzo[a]anthracene	228	17.637	17.637	0.000	100	186034	0.1000	0.0910	
*	29 Chrysene-d12	240	17.653	17.653	0.000	62	431252	0.2500	0.2500	
	30 Chrysene	228	17.699	17.699	0.000	100	225519	0.1000	0.0956	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.798	17.799	0.000	97	856442	1.00	0.99	
32 Di-n-octyl phthalate	149	18.964	18.972	-0.008	100	1489830	1.00	1.04	
33 Benzo[b]fluoranthene	252	19.501	19.501	0.000	100	218005	0.1000	0.0956	
34 Benzo[k]fluoranthene	252	19.547	19.547	0.000	100	252069	0.1000	0.0970	
35 Benzo[e]pyrene	252	19.946	19.946	0.000	100	218312	0.1000	0.0961	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.992	19.992	0.000	98	167536	0.1000	0.0971	
37 Benzo[a]pyrene	252	20.030	20.030	0.000	100	210473	0.1000	0.0952	
* 38 Perylene-d12	264	20.122	20.122	0.000	98	496295	0.2500	0.2500	
39 Perylene	252	20.168	20.168	0.000	100	227809	0.1000	0.0970	
40 Indeno[1,2,3-cd]pyrene	276	21.786	21.787	-0.001	98	197615	0.1000	0.0948	M
41 Dibenz(a,h)anthracene	278	21.829	21.829	0.000	95	212325	0.1000	0.0912	
42 Benzo[g,h,i]perylene	276	22.224	22.225	-0.001	94	243146	0.1000	0.0929	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_3_00013 Amount Added: 1.00 Units: mL

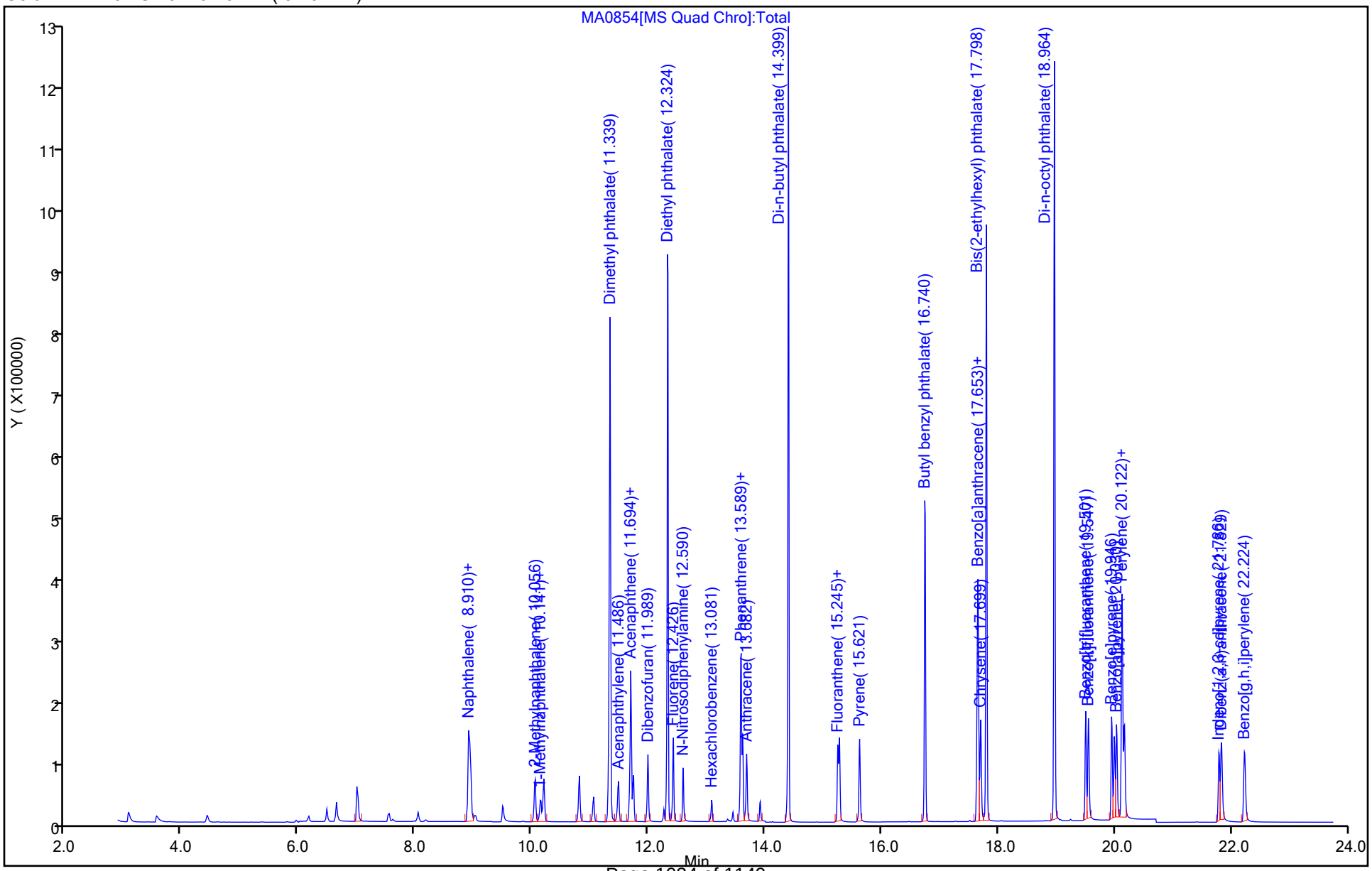
Report Date: 25-Jan-2022 13:07:16 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0854.D

Injection Date:	25-Jan-2022 07:29:33	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	IC L3			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

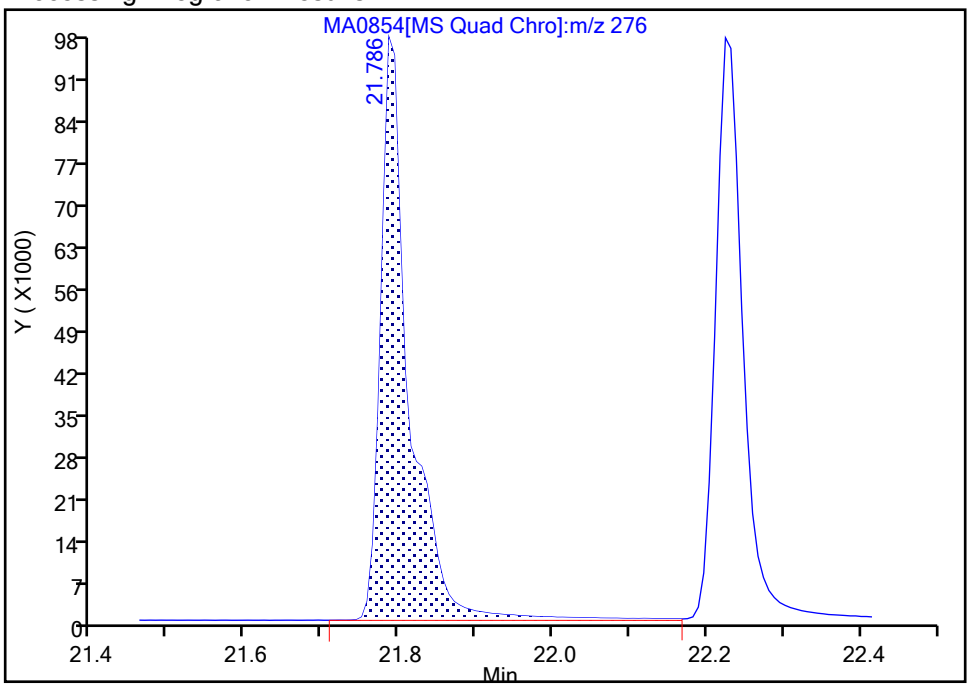
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0854.D				
Injection Date:	25-Jan-2022 07:29:33	Instrument ID:	HP21585		
Lims ID:	IC L3				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

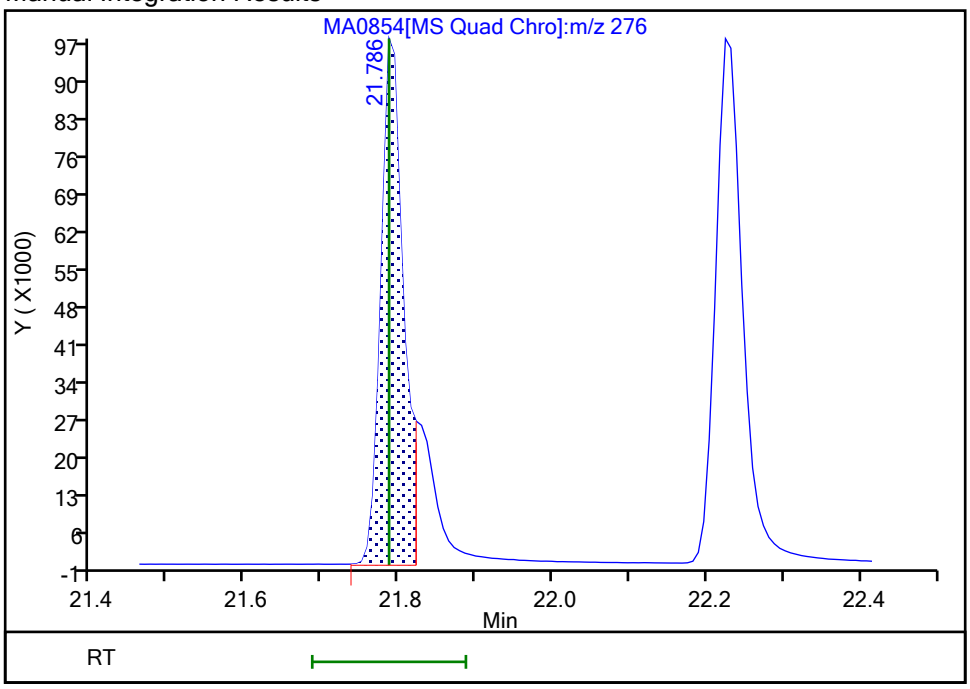
Processing Integration Results

RT: 21.79
Area: 252727
Amount: 0.106281
Amount Units: ug/ml



Manual Integration Results

RT: 21.79
Area: 197615
Amount: 0.094835
Amount Units: ug/ml



Reviewer: transuea, 25-Jan-2022 12:59:12

Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0855.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 25-Jan-2022 07:59:16 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L2
Misc. Info.: 410-0048994-006
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 25-Jan-2022 13:07:18 Calib Date: 25-Jan-2022 08:29:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: transuea Date: 25-Jan-2022 13:01:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	3.080	3.058	0.022	97	9931	0.0500	0.0475	M
2 N-Nitrosodimethylamine	74	3.570	3.518	0.052	88	9593	0.0500	0.0454	M
3 Bis(2-chloroethyl)ether	93	6.643	6.643	0.000	93	15388	0.0500	0.0449	
* 4 1,4-Dichlorobenzene-d4	152	6.993	6.993	0.000	99	70483	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.931	8.910	0.021	95	240727	0.2500	0.2500	
6 Naphthalene	128	8.951	8.951	0.000	94	52104	0.0500	0.0491	
7 Quinoline	129	9.506	9.481	0.025	84	22269	0.0500	0.0430	
8 2-Methylnaphthalene	142	10.056	10.056	0.000	96	34608	0.0500	0.0475	
$ 9 1-Methylnaphthalene-d10	152	10.153	10.141	0.012	100	30412	0.0500	0.0490	
10 1-Methylnaphthalene	142	10.202	10.203	-0.001	96	34249	0.0500	0.0485	
11 Dimethyl phthalate	163	11.339	11.340	-0.001	84	419730	0.5000	0.4848	
12 Acenaphthylene	152	11.486	11.486	0.000	99	53127	0.0500	0.0463	
* 13 Acenaphthene-d10	164	11.694	11.694	0.000	91	173665	0.2500	0.2500	
14 Acenaphthene	154	11.743	11.743	0.000	93	38357	0.0500	0.0487	
15 Dibenzofuran	168	11.989	11.989	0.000	99	58659	0.0500	0.0488	
16 Diethyl phthalate	149	12.324	12.332	-0.008	99	375091	0.5000	0.4726	
17 Fluorene	166	12.426	12.426	0.000	95	45665	0.0500	0.0472	
18 N-Nitrosodiphenylamine	169	12.598	12.590	0.008	98	31666	0.0500	0.0437	
19 Hexachlorobenzene	284	13.089	13.082	0.007	91	17594	0.0500	0.0477	
* 20 Phenanthrene-d10	188	13.589	13.589	0.000	95	357225	0.2500	0.2500	
21 Phenanthrene	178	13.612	13.612	0.000	100	73747	0.0500	0.0471	
22 Anthracene	178	13.682	13.683	-0.001	100	68571	0.0500	0.0472	
23 Di-n-butyl phthalate	149	14.399	14.405	-0.006	100	590239	0.5000	0.4543	
$ 24 Fluoranthene-d10 (Surr)	212	15.251	15.245	0.006	97	82021	0.0500	0.0458	
25 Fluoranthene	202	15.277	15.277	0.000	99	89070	0.0500	0.0453	
26 Pyrene	202	15.621	15.621	0.000	97	92705	0.0500	0.0469	
27 Butyl benzyl phthalate	149	16.740	16.748	-0.008	100	255544	0.5000	0.4462	
28 Benzo[a]anthracene	228	17.637	17.637	0.000	100	84274	0.0500	0.0437	
* 29 Chrysene-d12	240	17.653	17.653	0.000	58	406973	0.2500	0.2500	
30 Chrysene	228	17.699	17.699	0.000	100	107075	0.0500	0.0481	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.798	17.799	0.000	97	362560	0.5000	0.4456	
32 Di-n-octyl phthalate	149	18.964	18.972	-0.008	100	633504	0.5000	0.4683	
33 Benzo[b]fluoranthene	252	19.501	19.501	0.000	100	98017	0.0500	0.0458	
34 Benzo[k]fluoranthene	252	19.547	19.547	0.000	100	116782	0.0500	0.0478	
35 Benzo[e]pyrene	252	19.946	19.946	0.000	100	101500	0.0500	0.0475	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.992	19.992	0.000	98	80459	0.0500	0.0496	
37 Benzo[a]pyrene	252	20.030	20.030	0.000	100	93472	0.0500	0.0450	
* 38 Perylene-d12	264	20.122	20.122	0.000	98	466417	0.2500	0.2500	
39 Perylene	252	20.168	20.168	0.000	100	106218	0.0500	0.0481	M
40 Indeno[1,2,3-cd]pyrene	276	21.794	21.787	0.007	98	88438	0.0500	0.0452	M
41 Dibenz(a,h)anthracene	278	21.836	21.829	0.007	96	96078	0.0500	0.0439	
42 Benzo[g,h,i]perylene	276	22.231	22.225	0.006	94	115238	0.0500	0.0469	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_2_00015 Amount Added: 1.00 Units: mL

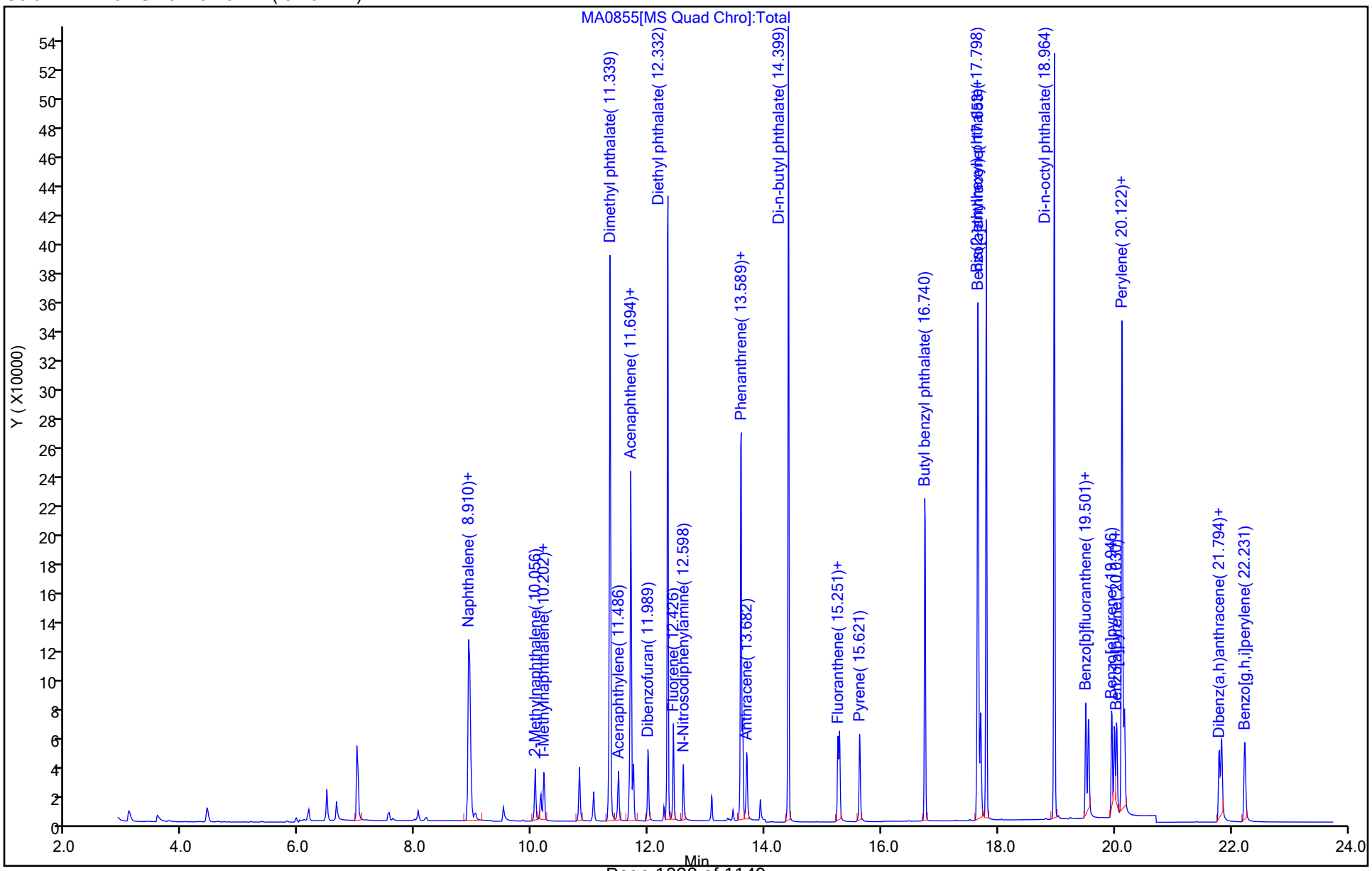
Report Date: 25-Jan-2022 13:07:19 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0855.D

Injection Date:	25-Jan-2022 07:59:16	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	IC L2			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

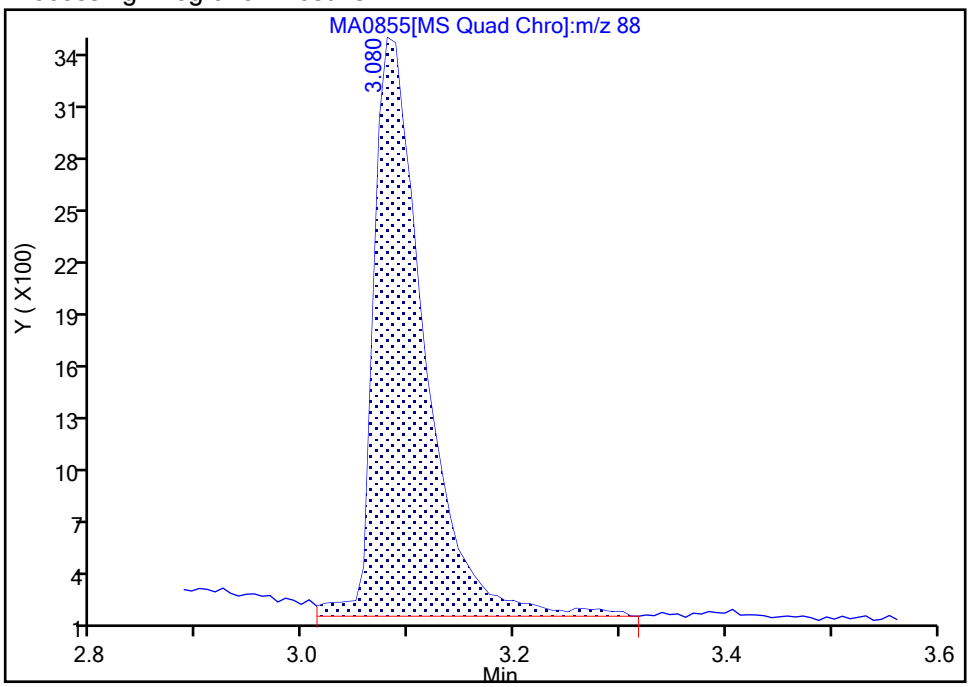
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0855.D				
Injection Date:	25-Jan-2022 07:59:16	Instrument ID:	HP21585		
Lims ID:	IC L2				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

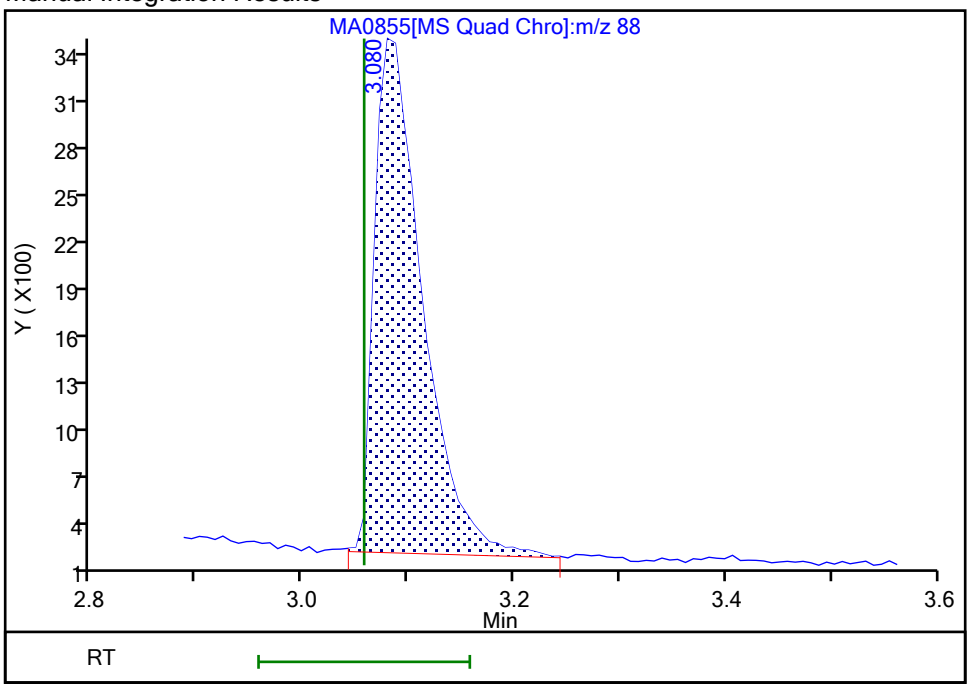
Processing Integration Results

RT: 3.08
Area: 10687
Amount: 0.047709
Amount Units: ug/ml



Manual Integration Results

RT: 3.08
Area: 9931
Amount: 0.047500
Amount Units: ug/ml



Reviewer: transuea, 25-Jan-2022 12:59:34

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

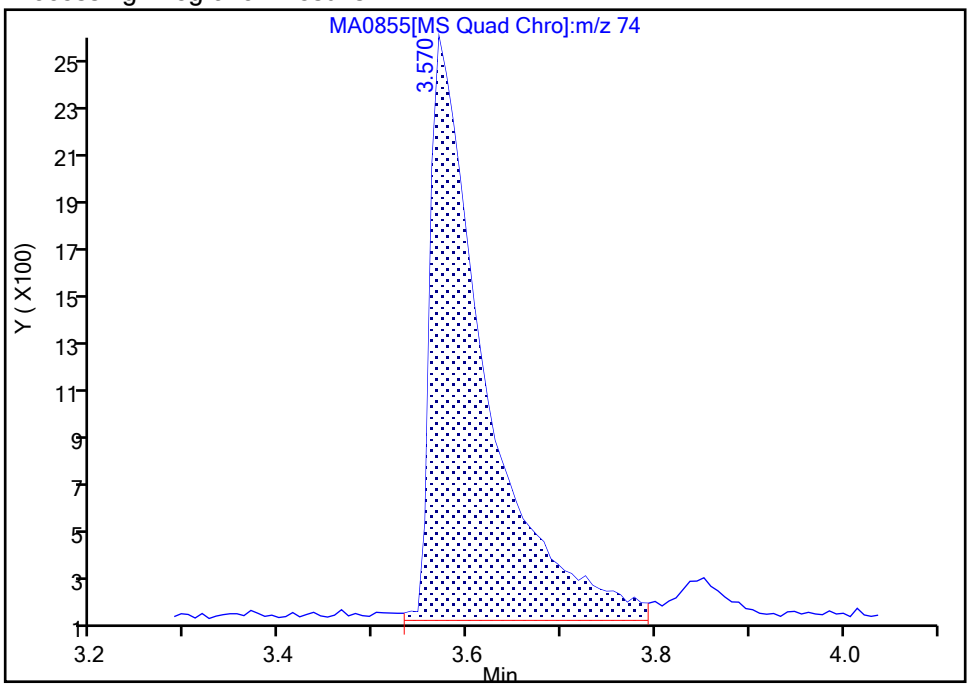
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0855.D				
Injection Date:	25-Jan-2022 07:59:16	Instrument ID:	HP21585		
Lims ID:	IC L2				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

2 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

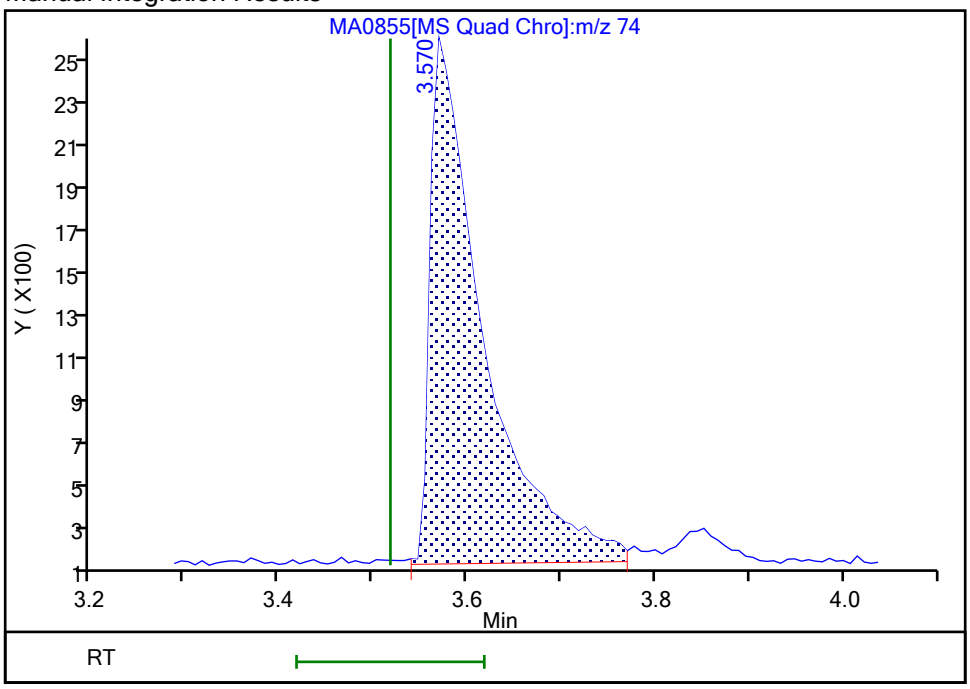
Processing Integration Results

RT: 3.57
Area: 9972
Amount: 0.046607
Amount Units: ug/ml



Manual Integration Results

RT: 3.57
Area: 9593
Amount: 0.045423
Amount Units: ug/ml



Reviewer: transuea, 25-Jan-2022 12:59:46

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

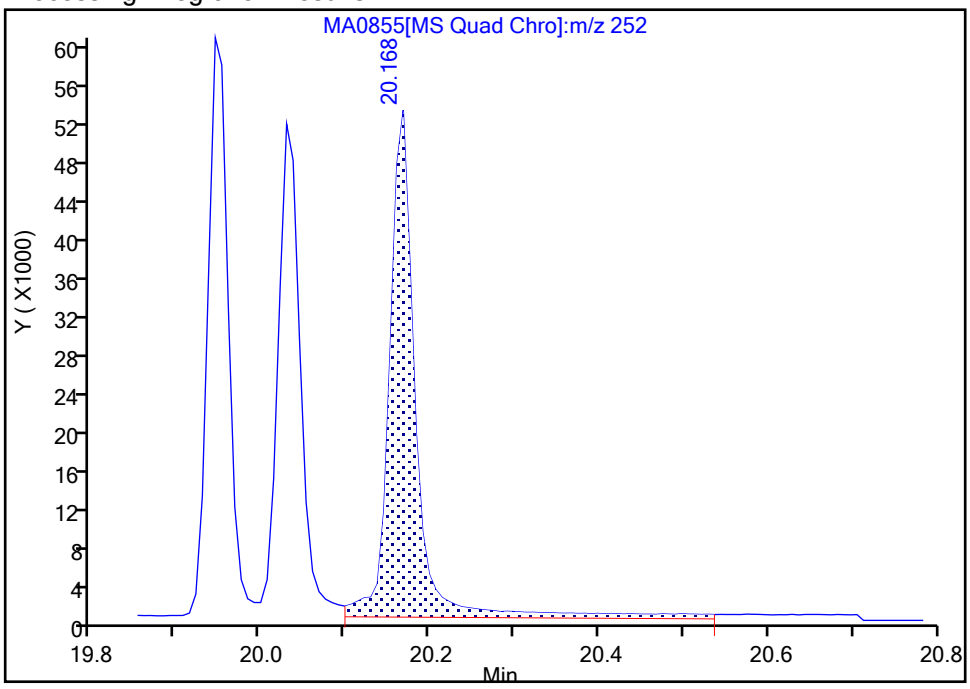
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0855.D		
Injection Date:	25-Jan-2022 07:59:16	Instrument ID:	HP21585
Lims ID:	IC L2		
Client ID:			
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

39 Perylene, CAS: 198-55-0

Signal: 1

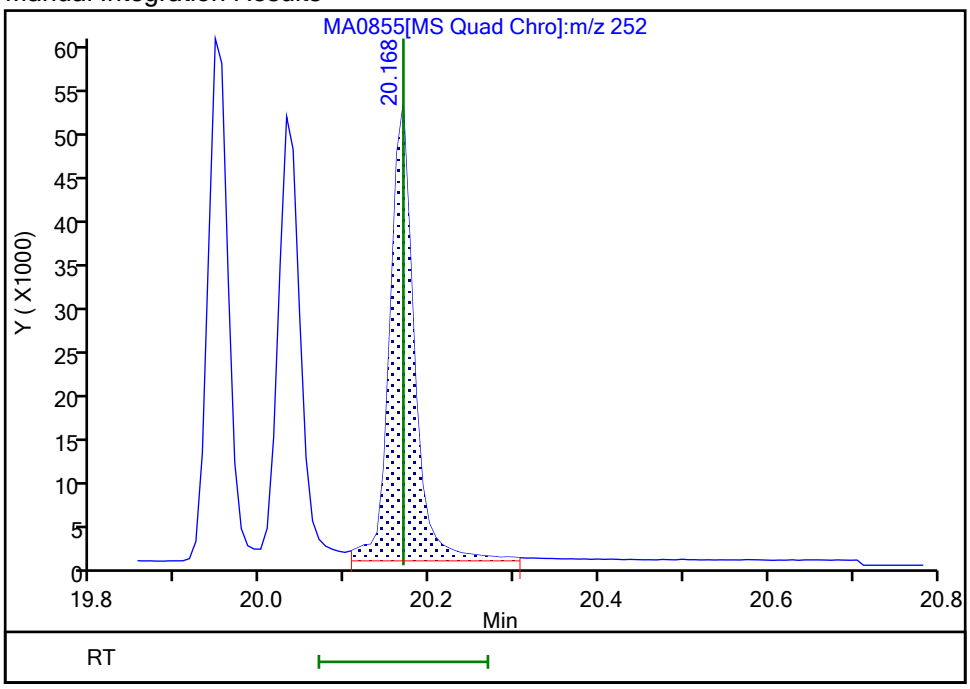
Processing Integration Results

RT: 20.17
Area: 115689
Amount: 0.051667
Amount Units: ug/ml



Manual Integration Results

RT: 20.17
Area: 106218
Amount: 0.048115
Amount Units: ug/ml



Reviewer: transuea, 25-Jan-2022 13:00:26

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

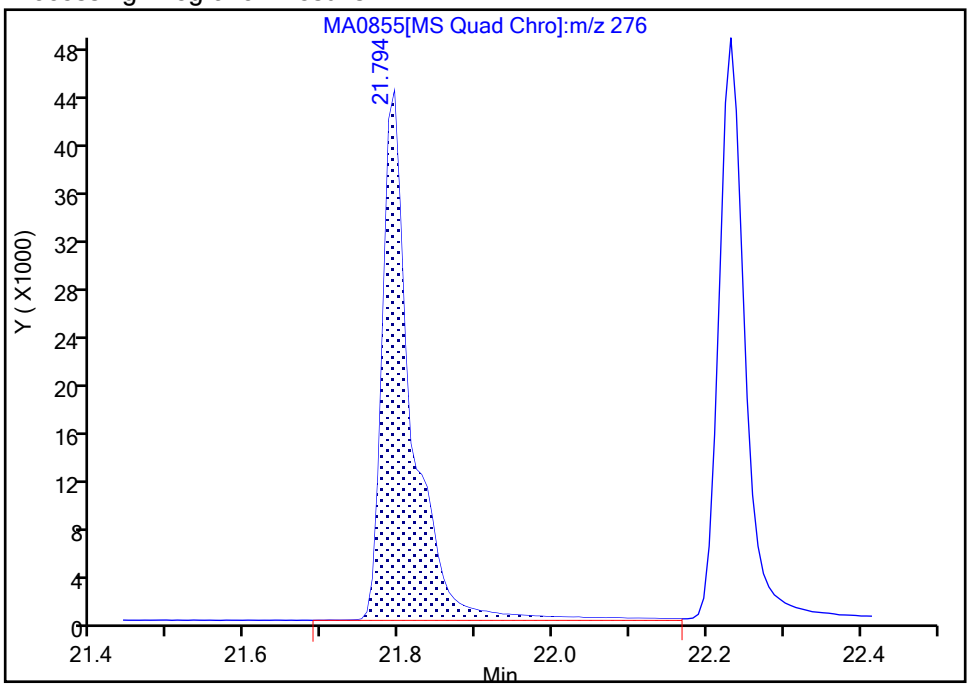
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0855.D				
Injection Date:	25-Jan-2022 07:59:16	Instrument ID:	HP21585		
Lims ID:	IC L2				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

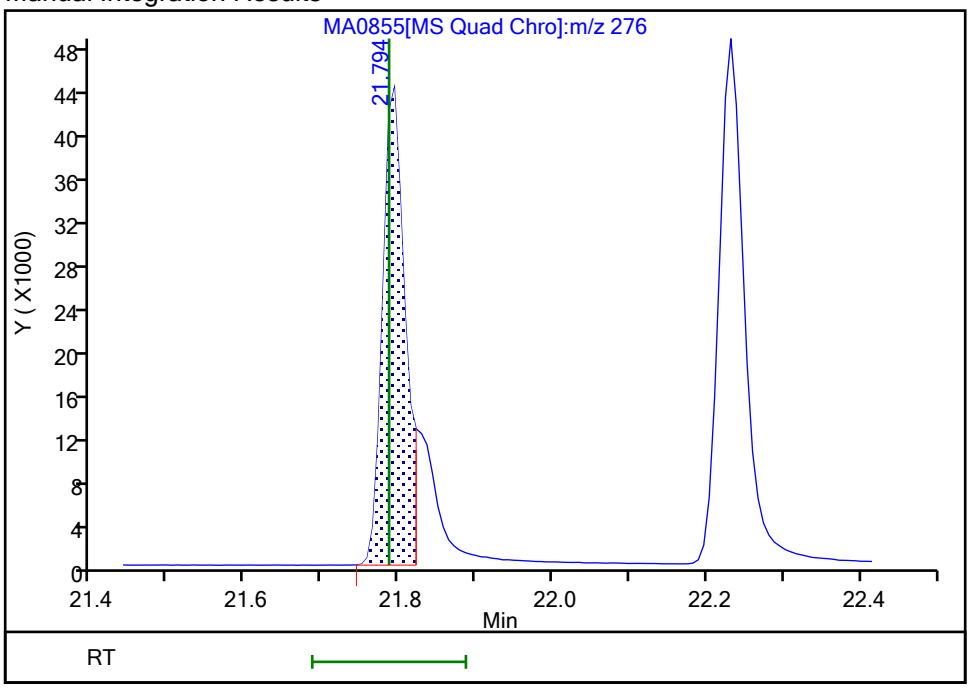
Processing Integration Results

RT: 21.79
Area: 117043
Amount: 0.053397
Amount Units: ug/ml



Manual Integration Results

RT: 21.79
Area: 88438
Amount: 0.045160
Amount Units: ug/ml



Reviewer: transuea, 25-Jan-2022 13:01:00

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 25-Jan-2022 08:29:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L1
Misc. Info.: 410-0048994-007
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 25-Jan-2022 13:07:21 Calib Date: 25-Jan-2022 08:29:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: transuea Date: 25-Jan-2022 13:03:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	3.095	3.095	0.000	97	2125	0.0100	0.0105	M
2 N-Nitrosodimethylamine	74	3.607	3.607	0.000	91	2086	0.0100	0.0102	M
3 Bis(2-chloroethyl)ether	93	6.664	6.664	0.000	96	3381	0.0100	0.0104	
* 4 1,4-Dichlorobenzene-d4	152	6.994	6.994	0.000	98	68161	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.931	8.931	0.000	93	228348	0.2500	0.2500	
6 Naphthalene	128	8.952	8.952	0.000	93	12415	0.0100	0.0123	
7 Quinoline	129	9.543	9.543	0.000	84	3788	0.0100	0.007707	
8 2-Methylnaphthalene	142	10.056	10.056	0.000	96	7520	0.0100	0.0109	
$ 9 1-Methylnaphthalene-d10	152	10.154	10.154	0.000	99	6771	0.0100	0.0115	
10 1-Methylnaphthalene	142	10.203	10.203	0.000	95	7695	0.0100	0.0115	
11 Dimethyl phthalate	163	11.340	11.340	0.000	83	207904	0.2500	0.2585	
12 Acenaphthylene	152	11.486	11.486	0.000	98	12338	0.0100	0.0116	
* 13 Acenaphthene-d10	164	11.694	11.694	0.000	94	161316	0.2500	0.2500	
14 Acenaphthene	154	11.743	11.743	0.000	93	8995	0.0100	0.0123	
15 Dibenzofuran	168	11.997	11.997	0.000	99	12739	0.0100	0.0114	
16 Diethyl phthalate	149	12.333	12.333	0.000	97	188261	0.2500	0.2553	
17 Fluorene	166	12.426	12.426	0.000	95	10128	0.0100	0.0113	
18 N-Nitrosodiphenylamine	169	12.598	12.598	0.000	100	10760	0.0100	0.0103	
19 Hexachlorobenzene	284	13.090	13.090	0.000	89	4114	0.0100	0.0121	
* 20 Phenanthrene-d10	188	13.589	13.589	0.000	96	328990	0.2500	0.2500	
21 Phenanthrene	178	13.613	13.613	0.000	100	18538	0.0100	0.0129	
22 Anthracene	178	13.691	13.691	0.000	100	15795	0.0100	0.0118	
23 Di-n-butyl phthalate	149	14.398	14.398	0.000	100	294909	0.2500	0.2465	
$ 24 Fluoranthene-d10 (Surr)	212	15.257	15.257	0.000	97	22517	0.0100	0.0137	
25 Fluoranthene	202	15.282	15.282	0.000	99	21281	0.0100	0.0118	
26 Pyrene	202	15.626	15.626	0.000	97	22836	0.0100	0.0126	
27 Butyl benzyl phthalate	149	16.745	16.745	0.000	100	125839	0.2500	0.2391	
28 Benzo[a]anthracene	228	17.635	17.635	0.000	100	21064	0.0100	0.0119	
* 29 Chrysene-d12	240	17.650	17.650	0.000	57	373997	0.2500	0.2500	
30 Chrysene	228	17.704	17.704	0.000	100	26852	0.0100	0.0131	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.796	17.796	0.000	97	173776	0.2500	0.2324	
32 Di-n-octyl phthalate	149	18.962	18.962	0.000	100	300061	0.2500	0.2525	
33 Benzo[b]fluoranthene	252	19.506	19.506	0.000	100	22518	0.0100	0.0120	
34 Benzo[k]fluoranthene	252	19.552	19.552	0.000	100	28560	0.0100	0.0133	
35 Benzo[e]pyrene	252	19.951	19.951	0.000	100	23688	0.0100	0.0126	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.997	19.997	0.000	98	20202	0.0100	0.0142	
37 Benzo[a]pyrene	252	20.035	20.035	0.000	100	22402	0.0100	0.0123	
* 38 Perylene-d12	264	20.127	20.127	0.000	98	409775	0.2500	0.2500	
39 Perylene	252	20.166	20.166	0.000	100	25748	0.0100	0.0133	
40 Indeno[1,2,3-cd]pyrene	276	21.805	21.805	0.000	98	19168	0.0100	0.0111	M
41 Dibenz(a,h)anthracene	278	21.847	21.847	0.000	94	20749	0.0100	0.0108	
42 Benzo[g,h,i]perylene	276	22.243	22.243	0.000	94	27039	0.0100	0.0125	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_1_00014 Amount Added: 1.00 Units: mL

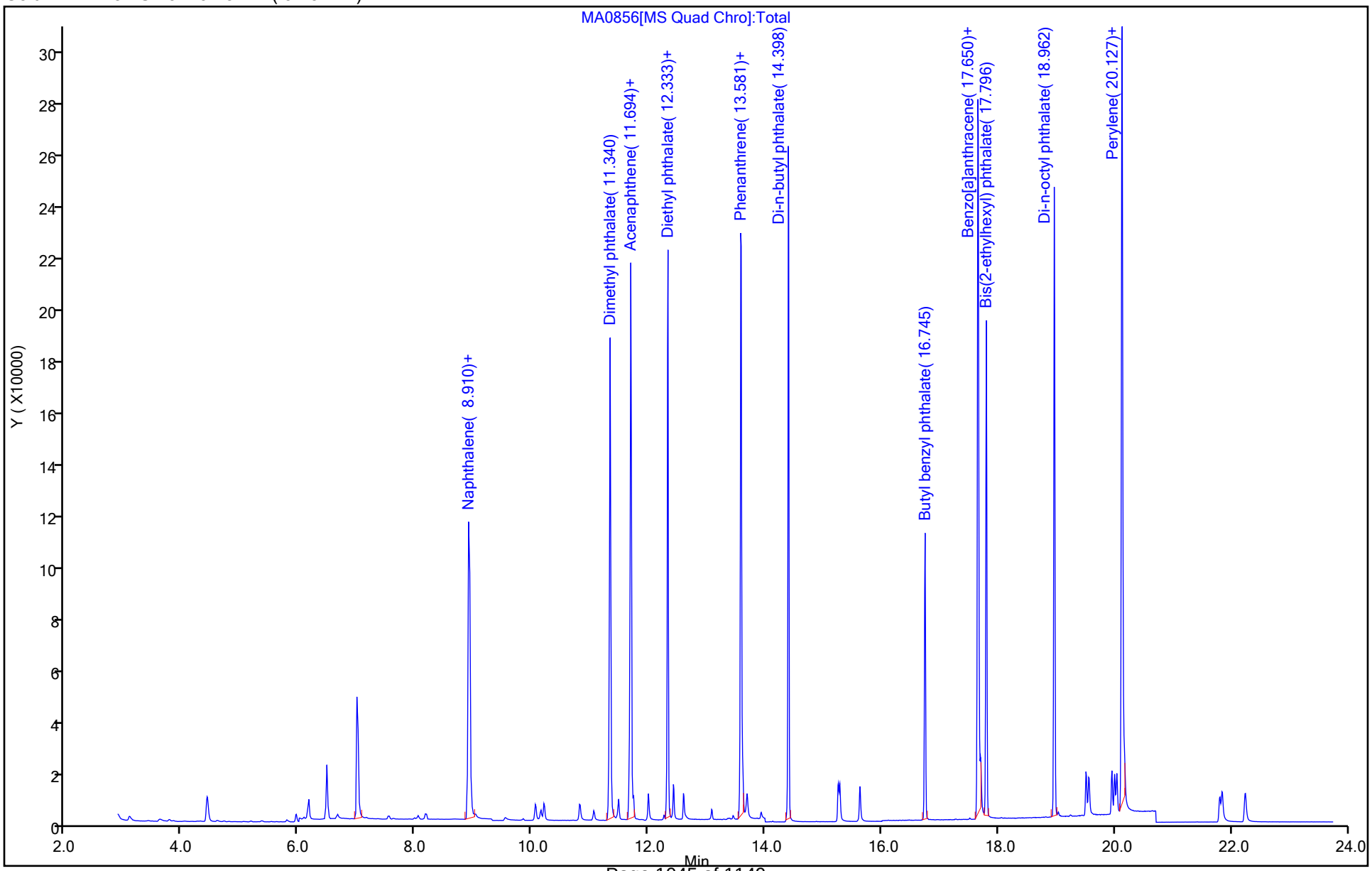
Report Date: 25-Jan-2022 13:07:22 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Injection Date:	25-Jan-2022 08:29:00	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	IC L1			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

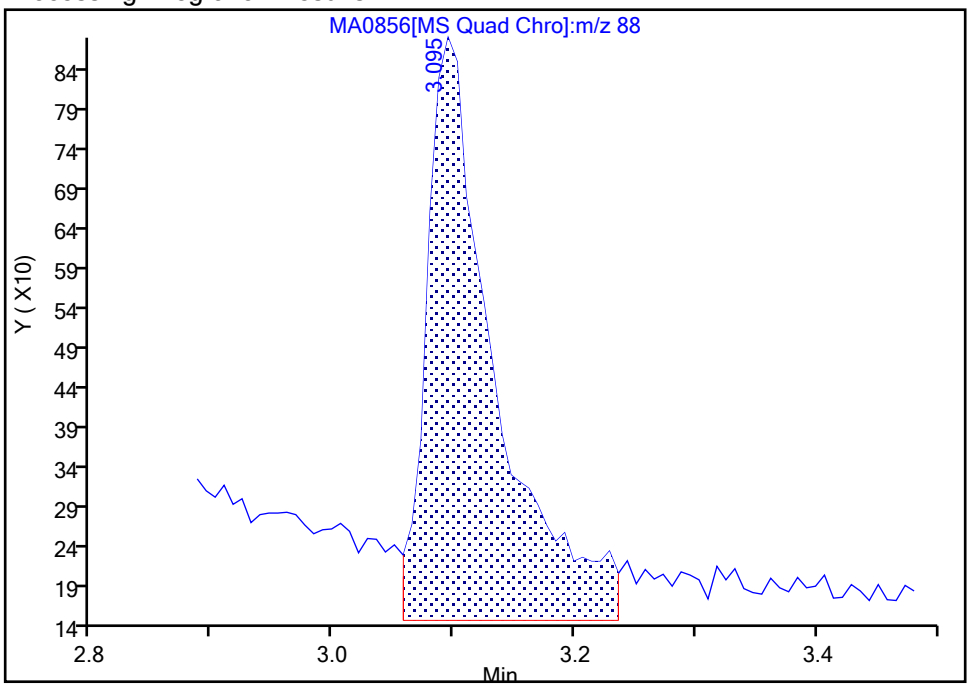
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D				
Injection Date:	25-Jan-2022 08:29:00	Instrument ID:	HP21585		
Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

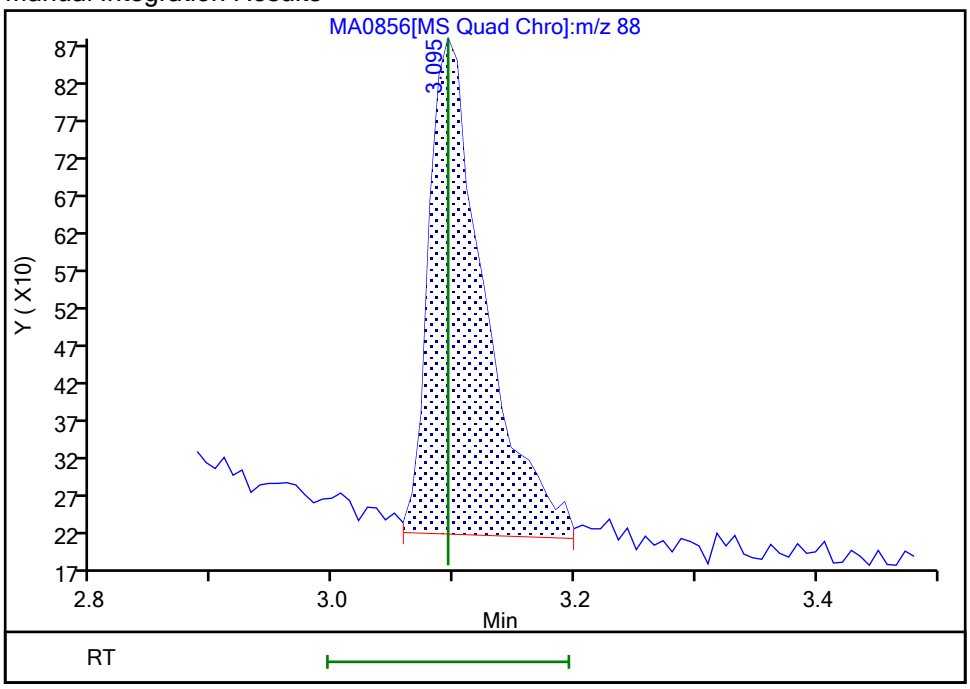
Processing Integration Results

RT: 3.09
Area: 2845
Amount: 0.013283
Amount Units: ug/ml



Manual Integration Results

RT: 3.09
Area: 2125
Amount: 0.010510
Amount Units: ug/ml



Reviewer: transuea, 25-Jan-2022 13:01:42

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

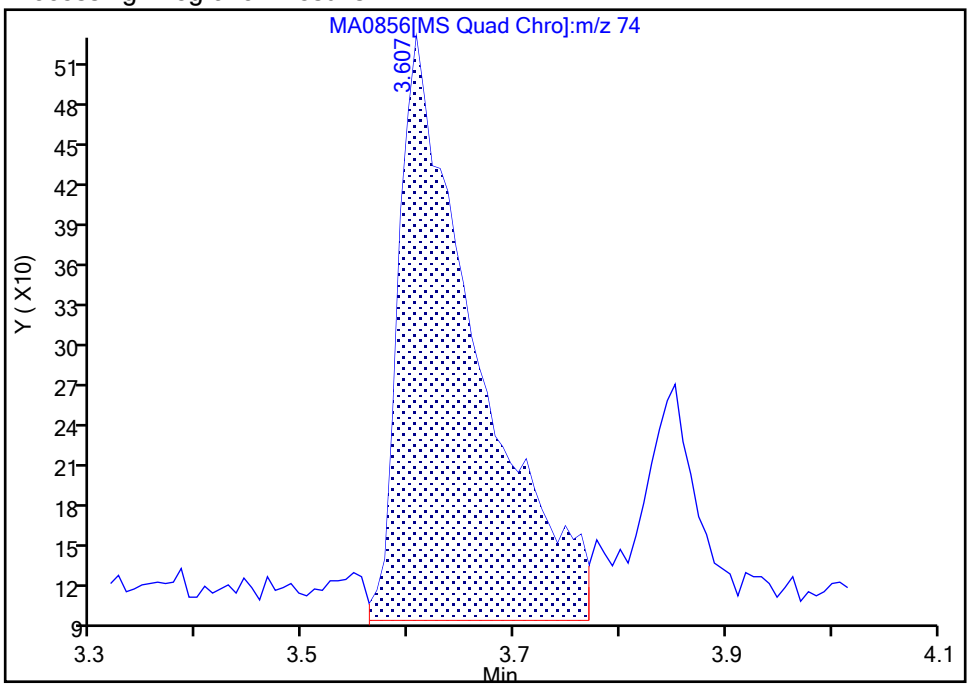
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D				
Injection Date:	25-Jan-2022 08:29:00	Instrument ID:	HP21585		
Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

2 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

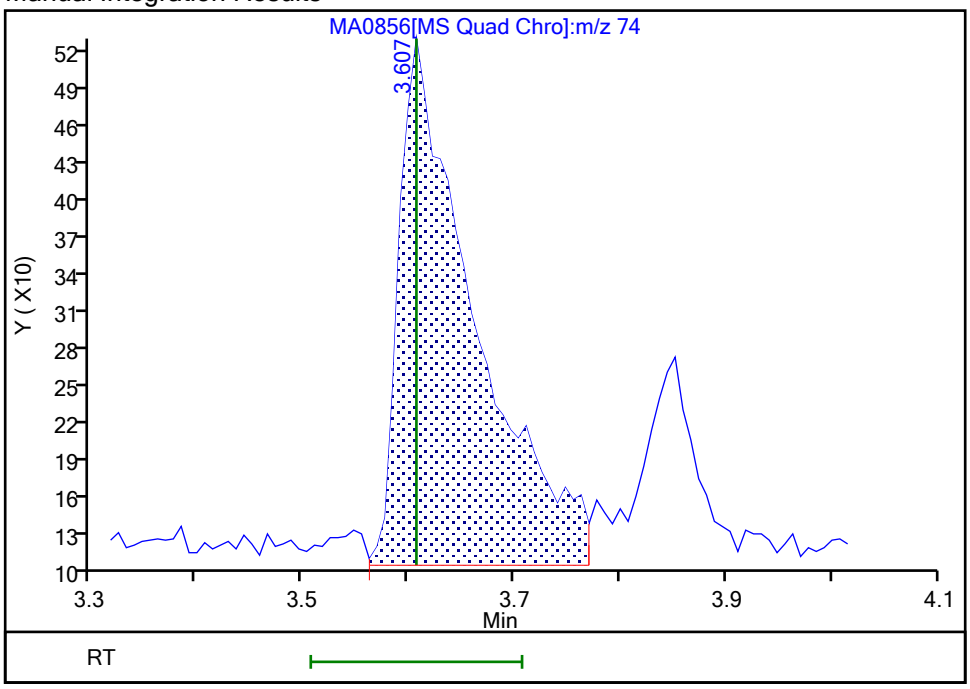
Processing Integration Results

RT: 3.61
Area: 2173
Amount: 0.010565
Amount Units: ug/ml



Manual Integration Results

RT: 3.61
Area: 2086
Amount: 0.010214
Amount Units: ug/ml



Reviewer: transuea, 25-Jan-2022 13:01:51
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

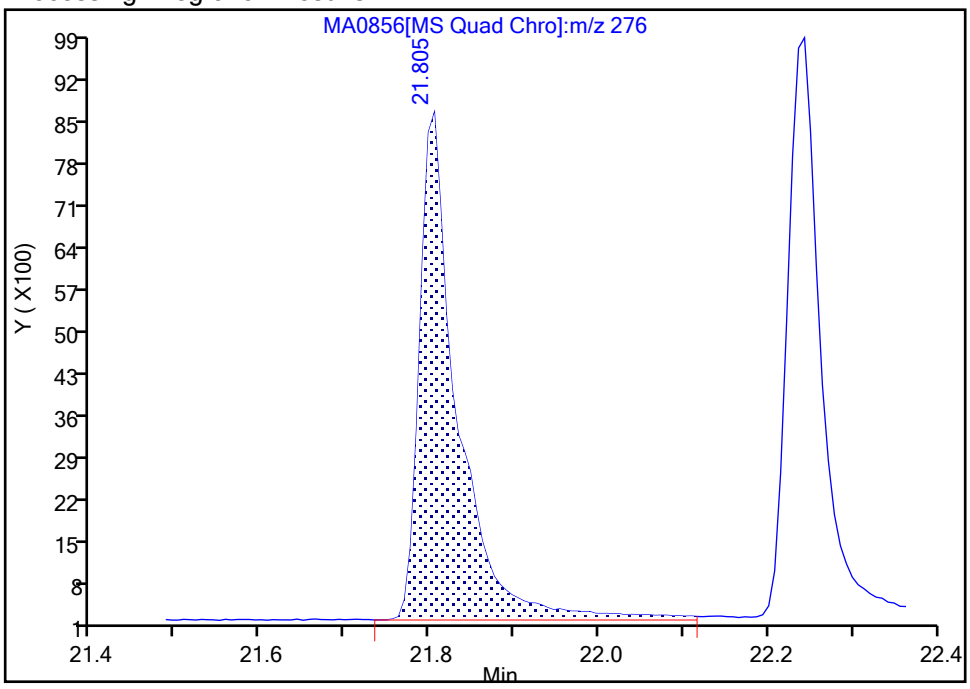
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D				
Injection Date:	25-Jan-2022 08:29:00	Instrument ID:	HP21585		
Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

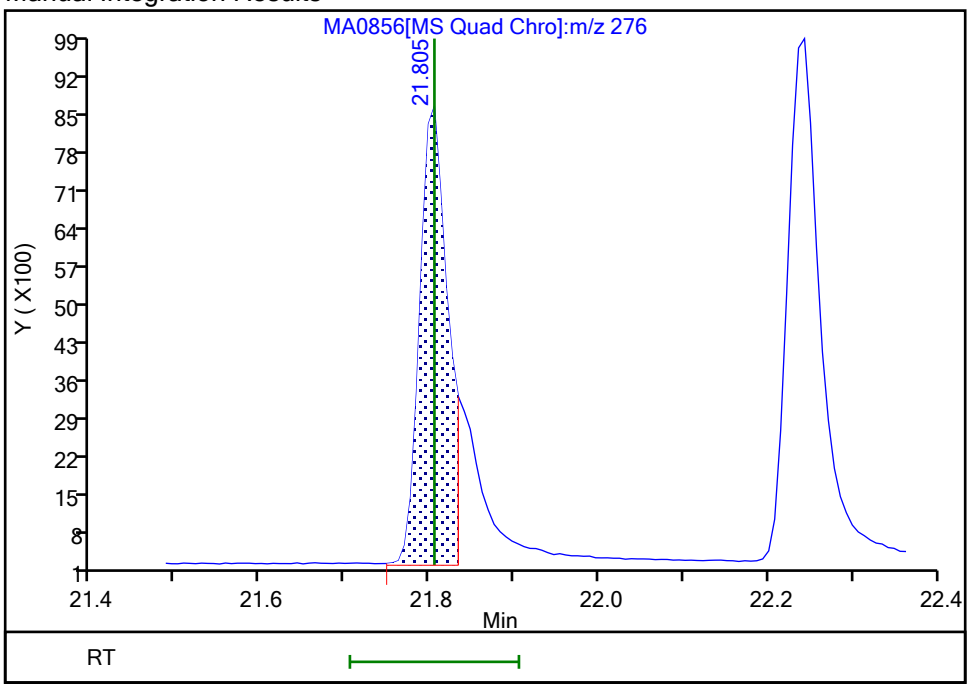
Processing Integration Results

RT: 21.81
Area: 26456
Amount: 0.012514
Amount Units: ug/ml



Manual Integration Results

RT: 21.81
Area: 19168
Amount: 0.011141
Amount Units: ug/ml



Reviewer: transuea, 25-Jan-2022 13:02:19

Audit Action: Manually Integrated Audit Reason: Baseline

Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

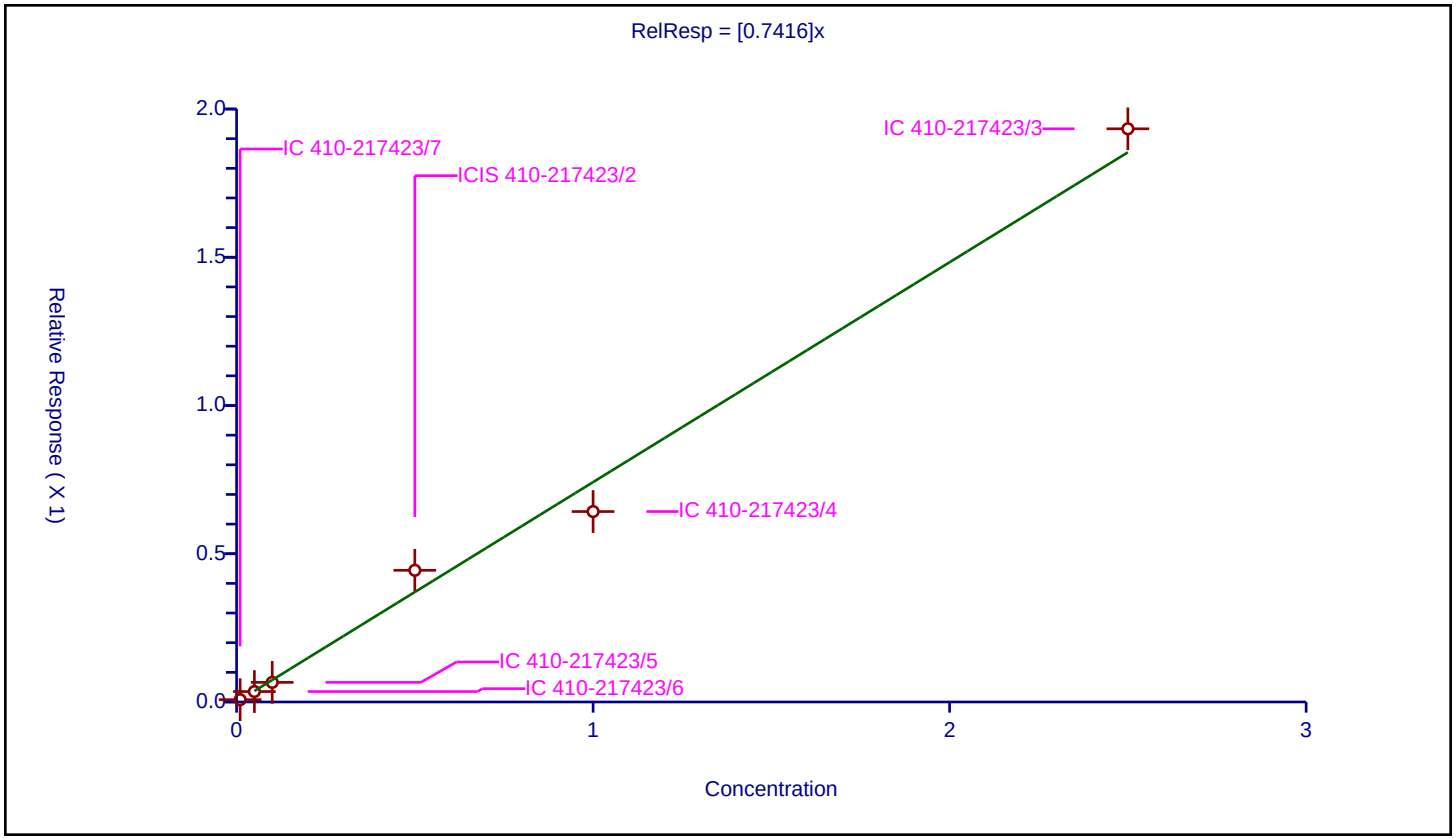
Curve Coefficients

Intercept:	0
Slope:	0.7416

Error Coefficients

Standard Error:	257000
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 410-217423/7	0.01	0.007794	0.25	68161.0	0.779405	Y
2	IC 410-217423/6	0.05	0.035225	0.25	70483.0	0.704496	Y
3	IC 410-217423/5	0.1	0.066146	0.25	76804.0	0.661456	Y
4	ICIS 410-217423/2	0.5	0.44421	0.25	63900.0	0.888419	Y
5	IC 410-217423/4	1.0	0.642364	0.25	78577.0	0.642364	Y
6	IC 410-217423/3	2.5	1.933236	0.25	68094.0	0.773294	Y



Calibration / N-Nitrosodimethylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

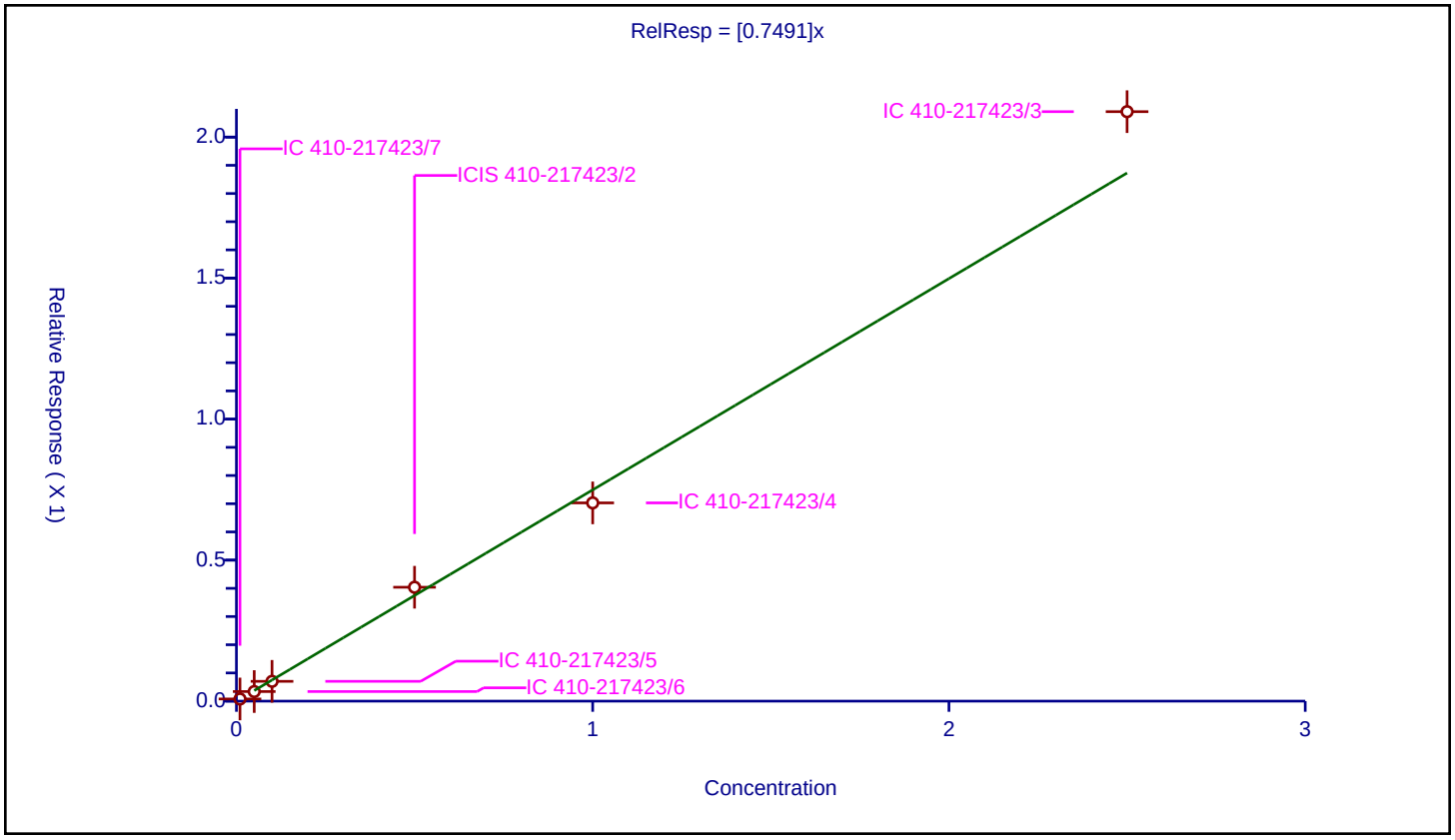
Curve Coefficients

Intercept:	0
Slope:	0.7491

Error Coefficients

Standard Error:	277000
Relative Standard Error:	8.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.007651	0.25	68161.0	0.7651	Y
2	IC 410-217423/6	0.05	0.034026	0.25	70483.0	0.680519	Y
3	IC 410-217423/5	0.1	0.070214	0.25	76804.0	0.702144	Y
4	ICIS 410-217423/2	0.5	0.403865	0.25	63900.0	0.807731	Y
5	IC 410-217423/4	1.0	0.703005	0.25	78577.0	0.703005	Y
6	IC 410-217423/3	2.5	2.090221	0.25	68094.0	0.836088	Y



Calibration / Bis(2-chloroethyl)ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

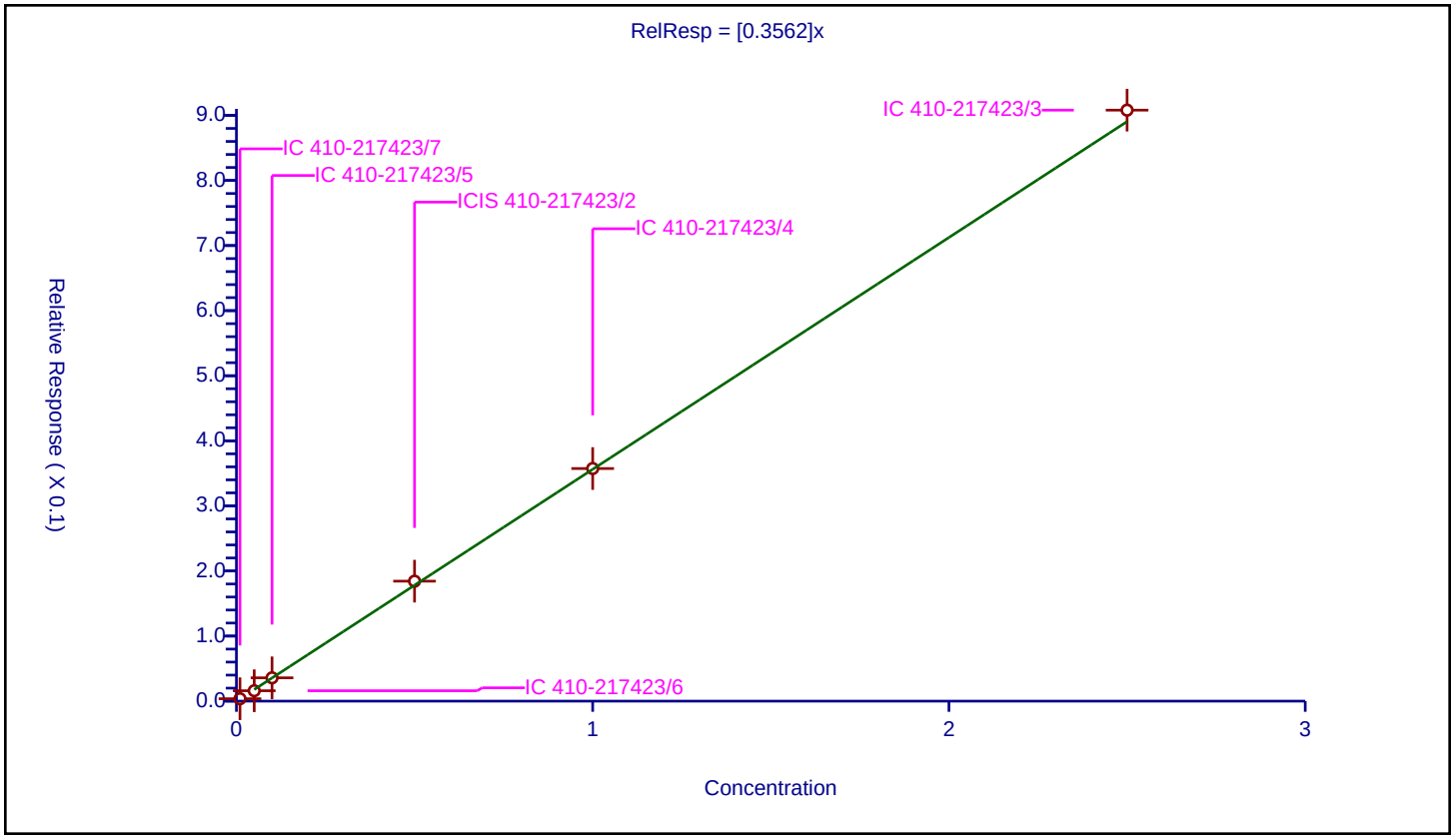
Curve Coefficients

Intercept:	0
Slope:	0.3562

Error Coefficients

Standard Error:	417000
Relative Standard Error:	5.2
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.003702	0.25	228348.0	0.370159	Y
2	IC 410-217423/6	0.05	0.015981	0.25	240727.0	0.319615	Y
3	IC 410-217423/5	0.1	0.035815	0.25	260668.0	0.358147	Y
4	ICIS 410-217423/2	0.5	0.184344	0.25	207121.0	0.368688	Y
5	IC 410-217423/4	1.0	0.357422	0.25	269741.0	0.357422	Y
6	IC 410-217423/3	2.5	0.908073	0.25	229375.0	0.363229	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

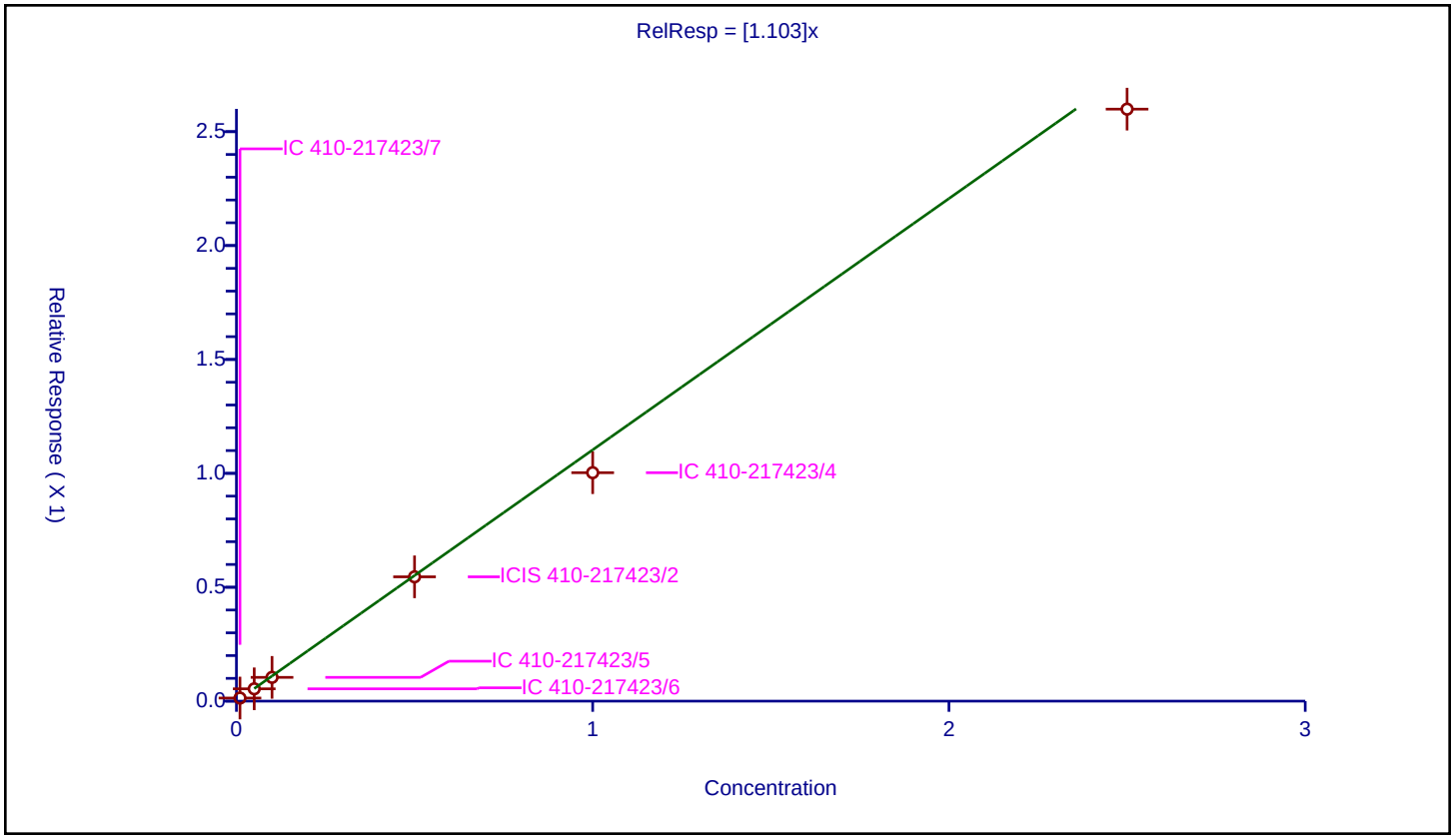
Curve Coefficients

Intercept:	0
Slope:	1.103

Error Coefficients

Standard Error:	1190000
Relative Standard Error:	11.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.013592	0.25	228348.0	1.359219	Y
2	IC 410-217423/6	0.05	0.054111	0.25	240727.0	1.082222	Y
3	IC 410-217423/5	0.1	0.104352	0.25	260668.0	1.043521	Y
4	ICIS 410-217423/2	0.5	0.545751	0.25	207121.0	1.091502	Y
5	IC 410-217423/4	1.0	1.00287	0.25	269741.0	1.00287	Y
6	IC 410-217423/3	2.5	2.5989	0.25	229375.0	1.03956	Y



Calibration / Quinoline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

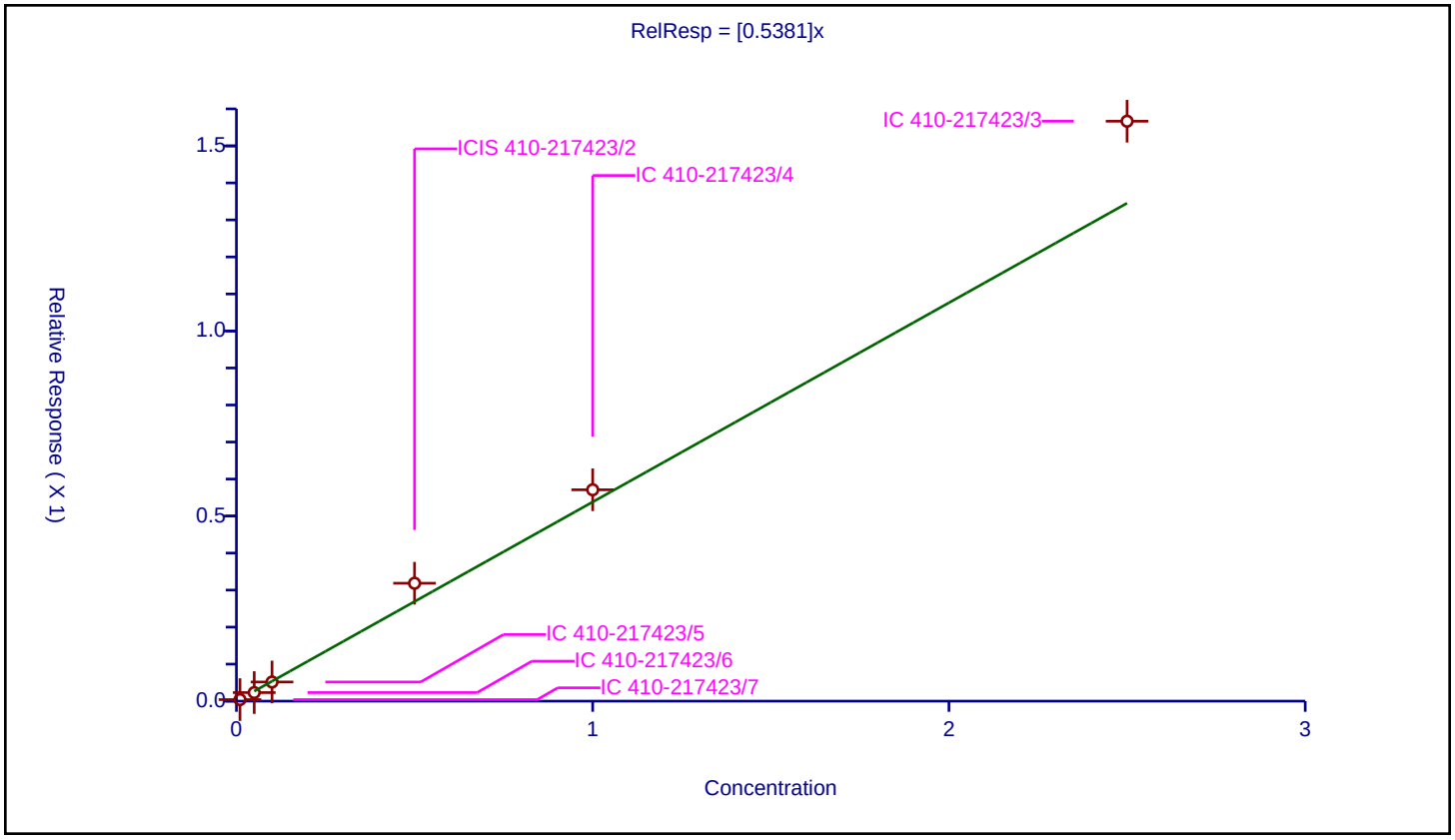
Curve Coefficients

Intercept:	0
Slope:	0.5381

Error Coefficients

Standard Error:	710000
Relative Standard Error:	16.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.004147	0.25	228348.0	0.414718	Y
2	IC 410-217423/6	0.05	0.023127	0.25	240727.0	0.462536	Y
3	IC 410-217423/5	0.1	0.05169	0.25	260668.0	0.516903	Y
4	ICIS 410-217423/2	0.5	0.318468	0.25	207121.0	0.636937	Y
5	IC 410-217423/4	1.0	0.570967	0.25	269741.0	0.570967	Y
6	IC 410-217423/3	2.5	1.566683	0.25	229375.0	0.626673	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

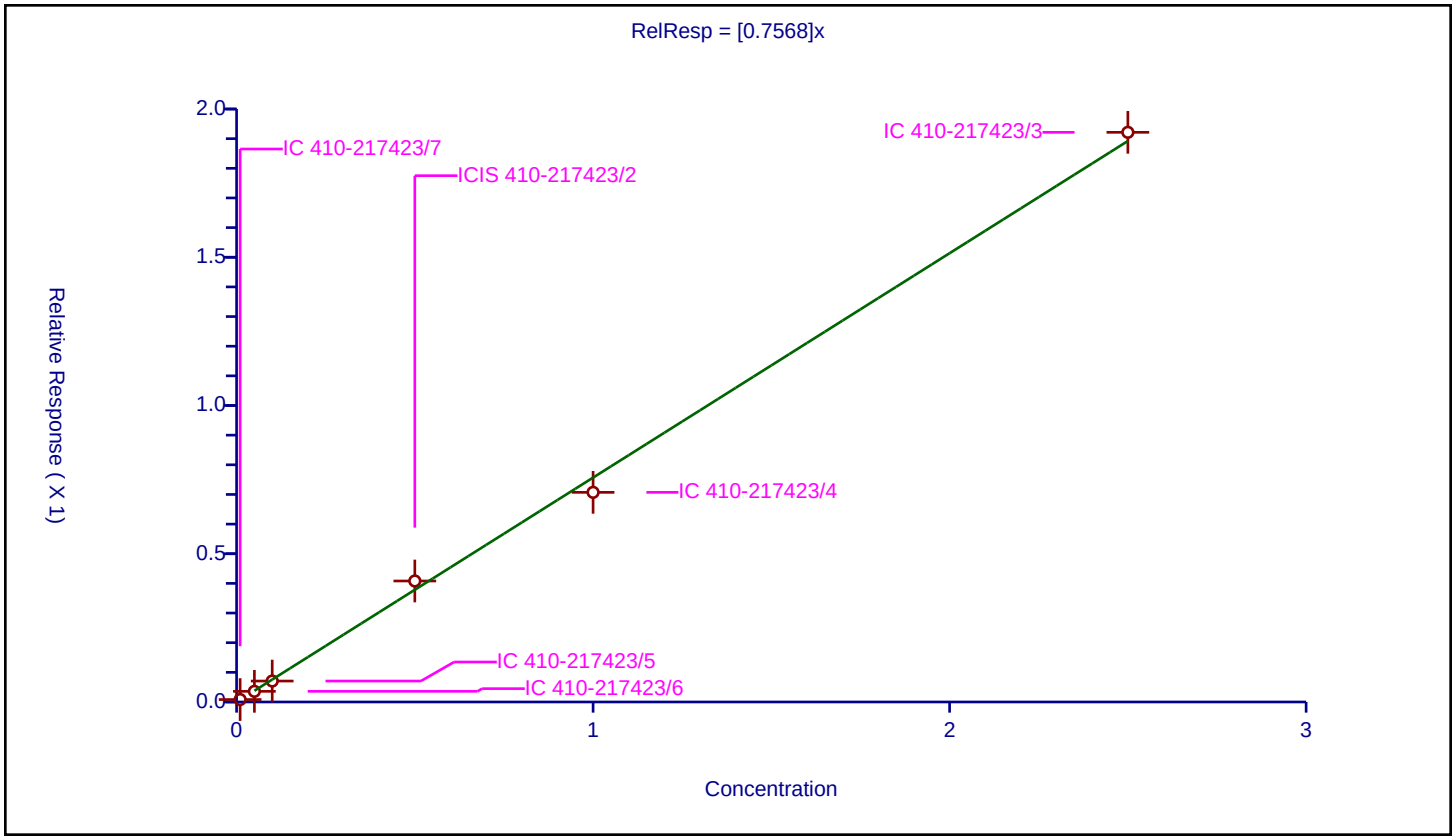
Curve Coefficients

Intercept:	0
Slope:	0.7568

Error Coefficients

Standard Error:	873000
Relative Standard Error:	7.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.008233	0.25	228348.0	0.823305	Y
2	IC 410-217423/6	0.05	0.035941	0.25	240727.0	0.718823	Y
3	IC 410-217423/5	0.1	0.070688	0.25	260668.0	0.706876	Y
4	ICIS 410-217423/2	0.5	0.40812	0.25	207121.0	0.81624	Y
5	IC 410-217423/4	1.0	0.707125	0.25	269741.0	0.707125	Y
6	IC 410-217423/3	2.5	1.921404	0.25	229375.0	0.768562	Y



Calibration / 1-Methylnaphthalene-d10

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

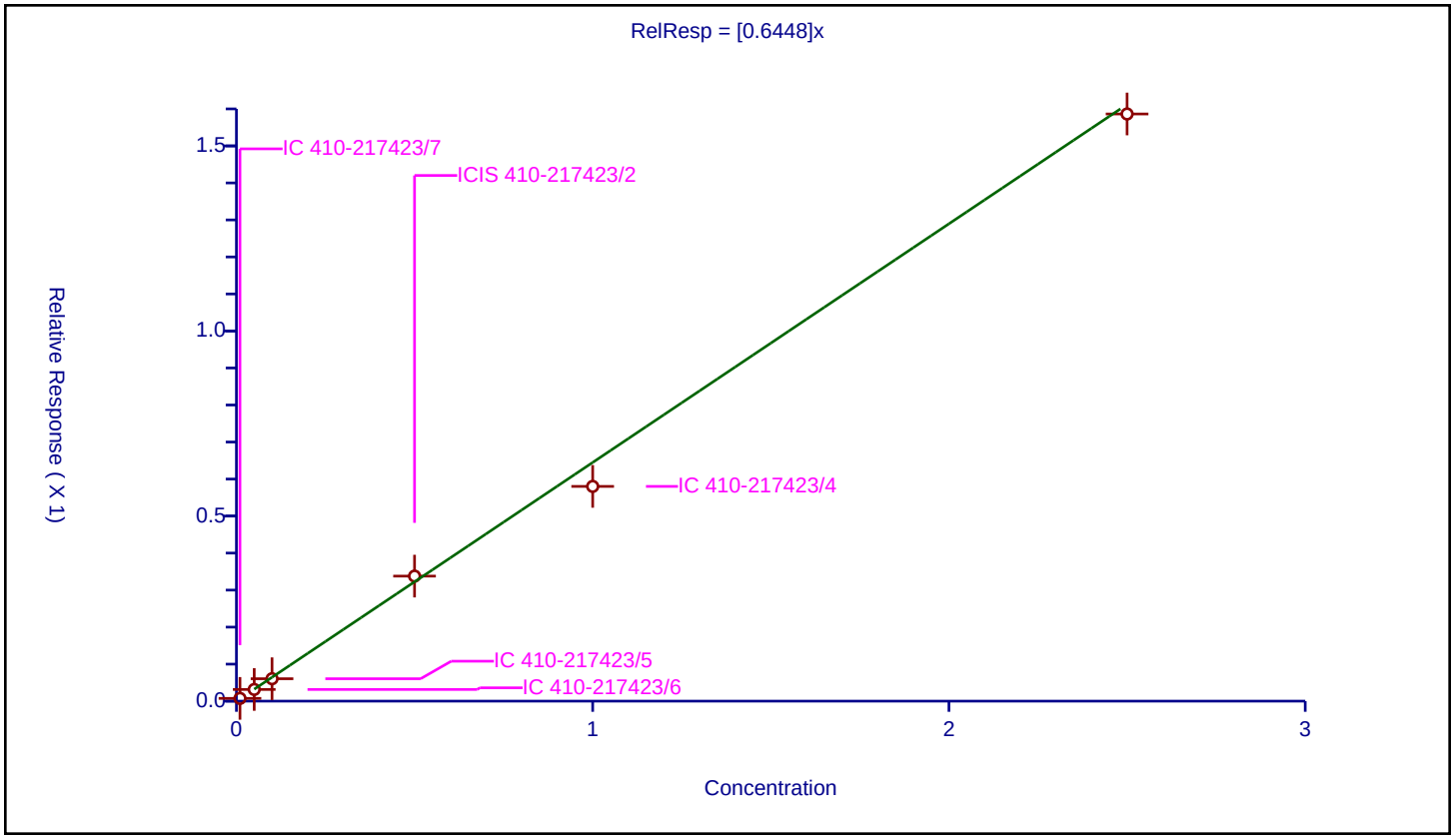
Curve Coefficients

Intercept:	0
Slope:	0.6448

Error Coefficients

Standard Error:	720000
Relative Standard Error:	8.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.007413	0.25	228348.0	0.741303	Y
2	IC 410-217423/6	0.05	0.031583	0.25	240727.0	0.63167	Y
3	IC 410-217423/5	0.1	0.060561	0.25	260668.0	0.605608	Y
4	ICIS 410-217423/2	0.5	0.337812	0.25	207121.0	0.675624	Y
5	IC 410-217423/4	1.0	0.580105	0.25	269741.0	0.580105	Y
6	IC 410-217423/3	2.5	1.586247	0.25	229375.0	0.634499	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

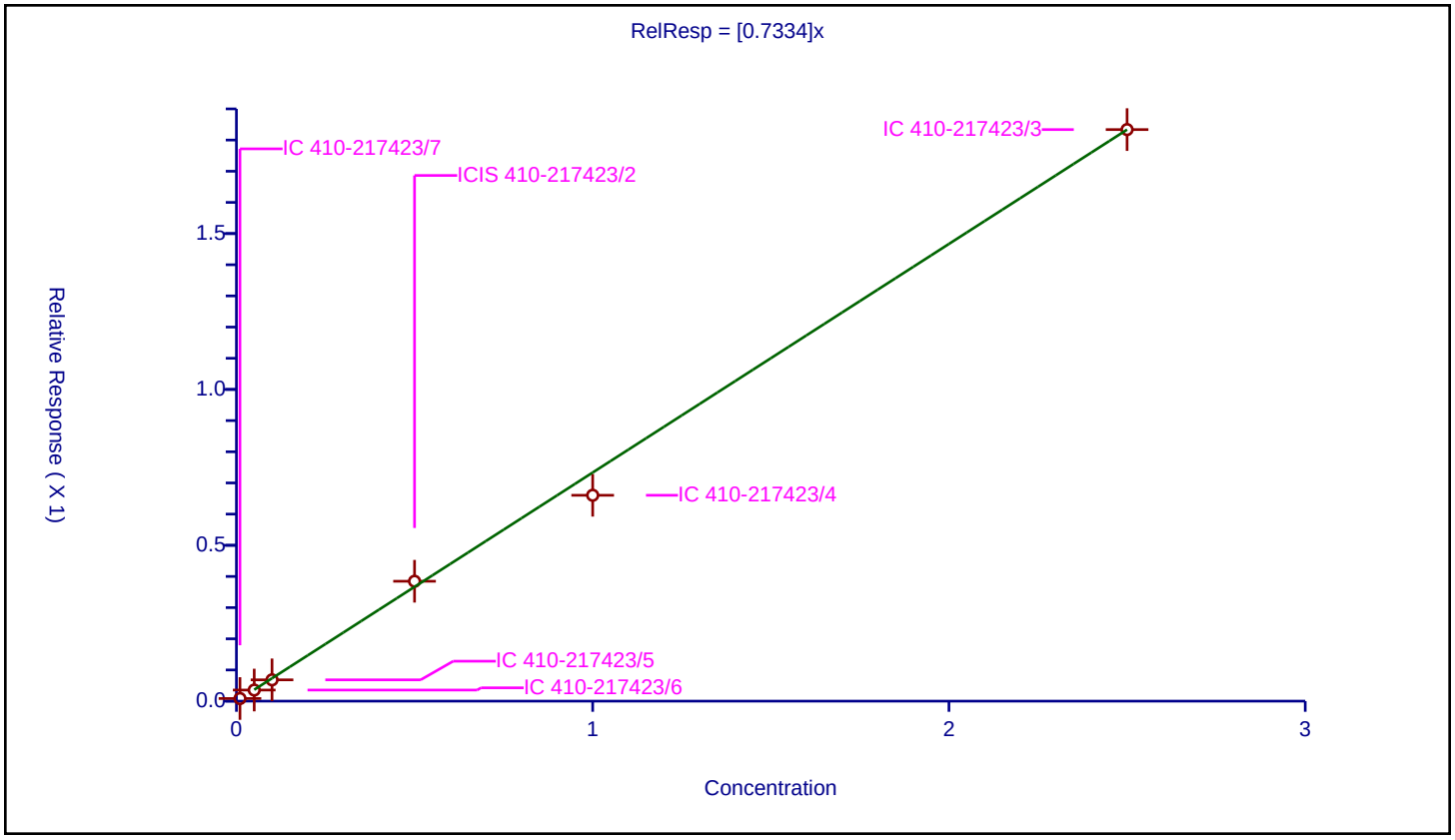
Curve Coefficients

Intercept:	0
Slope:	0.7334

Error Coefficients

Standard Error:	830000
Relative Standard Error:	8.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.008425	0.25	228348.0	0.842464	Y
2	IC 410-217423/6	0.05	0.035568	0.25	240727.0	0.711366	Y
3	IC 410-217423/5	0.1	0.06833	0.25	260668.0	0.683302	Y
4	ICIS 410-217423/2	0.5	0.384601	0.25	207121.0	0.769203	Y
5	IC 410-217423/4	1.0	0.660477	0.25	269741.0	0.660477	Y
6	IC 410-217423/3	2.5	1.833611	0.25	229375.0	0.733444	Y



Calibration / Dimethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

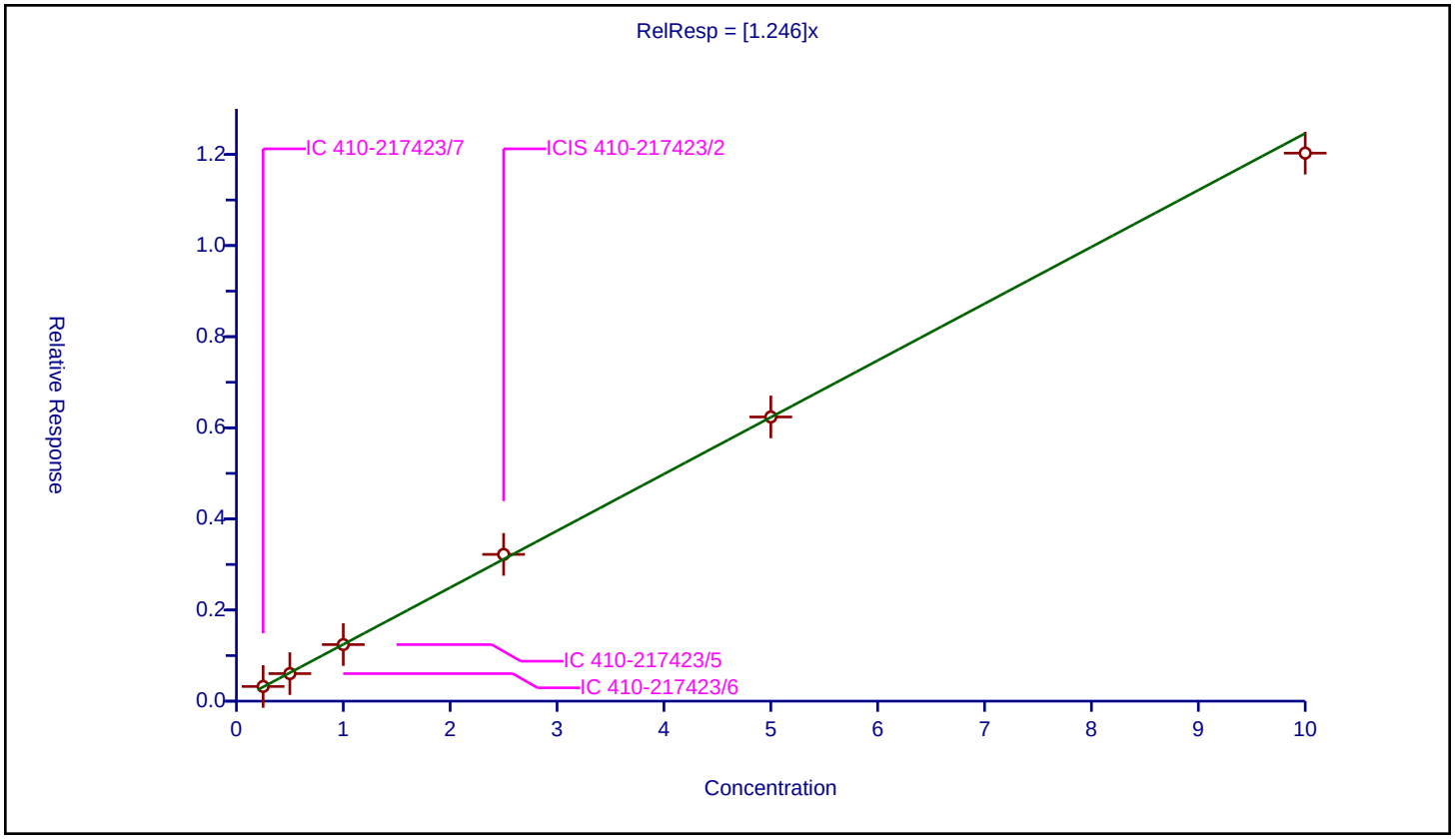
Curve Coefficients

Intercept:	0
Slope:	1.246

Error Coefficients

Standard Error:	4460000
Relative Standard Error:	3.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.25	0.3222	0.25	161316.0	1.2888	Y
2	IC 410-217423/6	0.5	0.604224	0.25	173665.0	1.208447	Y
3	IC 410-217423/5	1.0	1.241404	0.25	182901.0	1.241404	Y
4	ICIS 410-217423/2	2.5	3.221079	0.25	157490.0	1.288432	Y
5	IC 410-217423/4	5.0	6.237461	0.25	183568.0	1.247492	Y
6	IC 410-217423/3	10.0	12.028978	0.25	177754.0	1.202898	Y



Calibration / Acenaphthylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

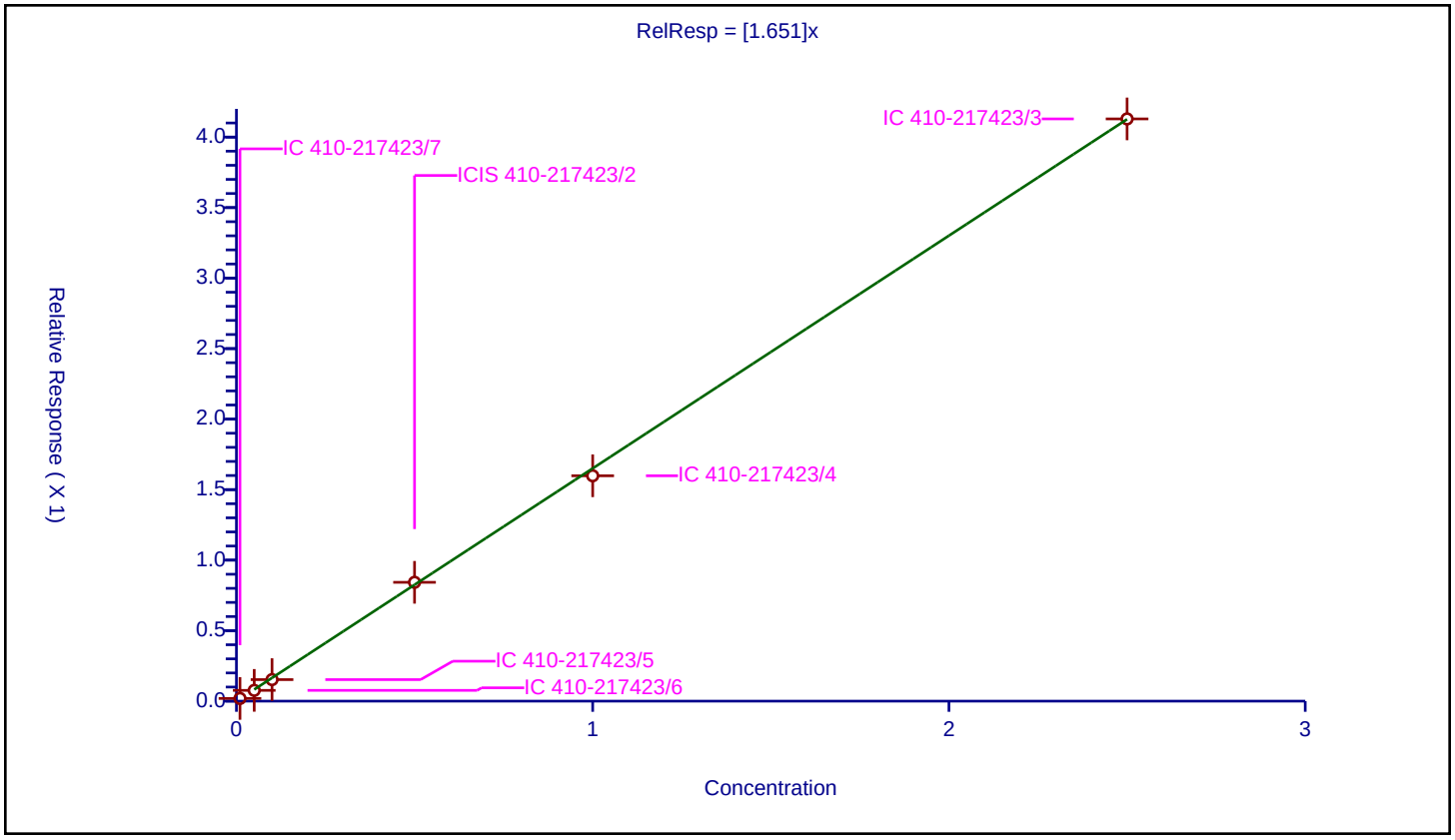
Curve Coefficients

Intercept:	0
Slope:	1.651

Error Coefficients

Standard Error:	1430000
Relative Standard Error:	8.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.019121	0.25	161316.0	1.912086	Y
2	IC 410-217423/6	0.05	0.076479	0.25	173665.0	1.529583	Y
3	IC 410-217423/5	0.1	0.152656	0.25	182901.0	1.526564	Y
4	ICIS 410-217423/2	0.5	0.842754	0.25	157490.0	1.685507	Y
5	IC 410-217423/4	1.0	1.59816	0.25	183568.0	1.59816	Y
6	IC 410-217423/3	2.5	4.129069	0.25	177754.0	1.651628	Y



Calibration / Acenaphthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

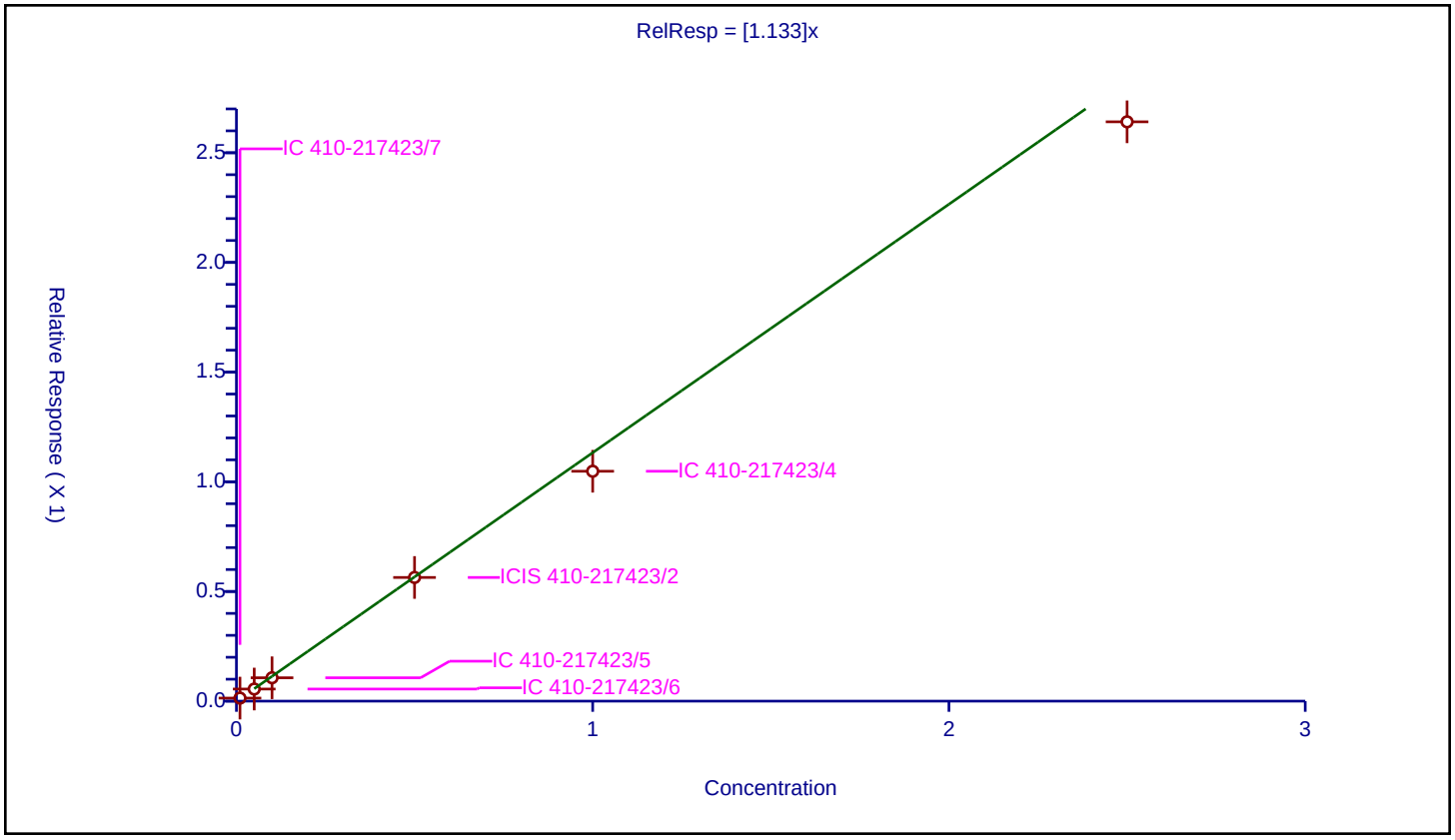
Curve Coefficients

Intercept:	0
Slope:	1.133

Error Coefficients

Standard Error:	922000
Relative Standard Error:	11.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.01394	0.25	161316.0	1.394003	Y
2	IC 410-217423/6	0.05	0.055217	0.25	173665.0	1.104339	Y
3	IC 410-217423/5	0.1	0.106548	0.25	182901.0	1.065481	Y
4	ICIS 410-217423/2	0.5	0.563818	0.25	157490.0	1.127637	Y
5	IC 410-217423/4	1.0	1.048061	0.25	183568.0	1.048061	Y
6	IC 410-217423/3	2.5	2.641088	0.25	177754.0	1.056435	Y



Calibration / Dibenzofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

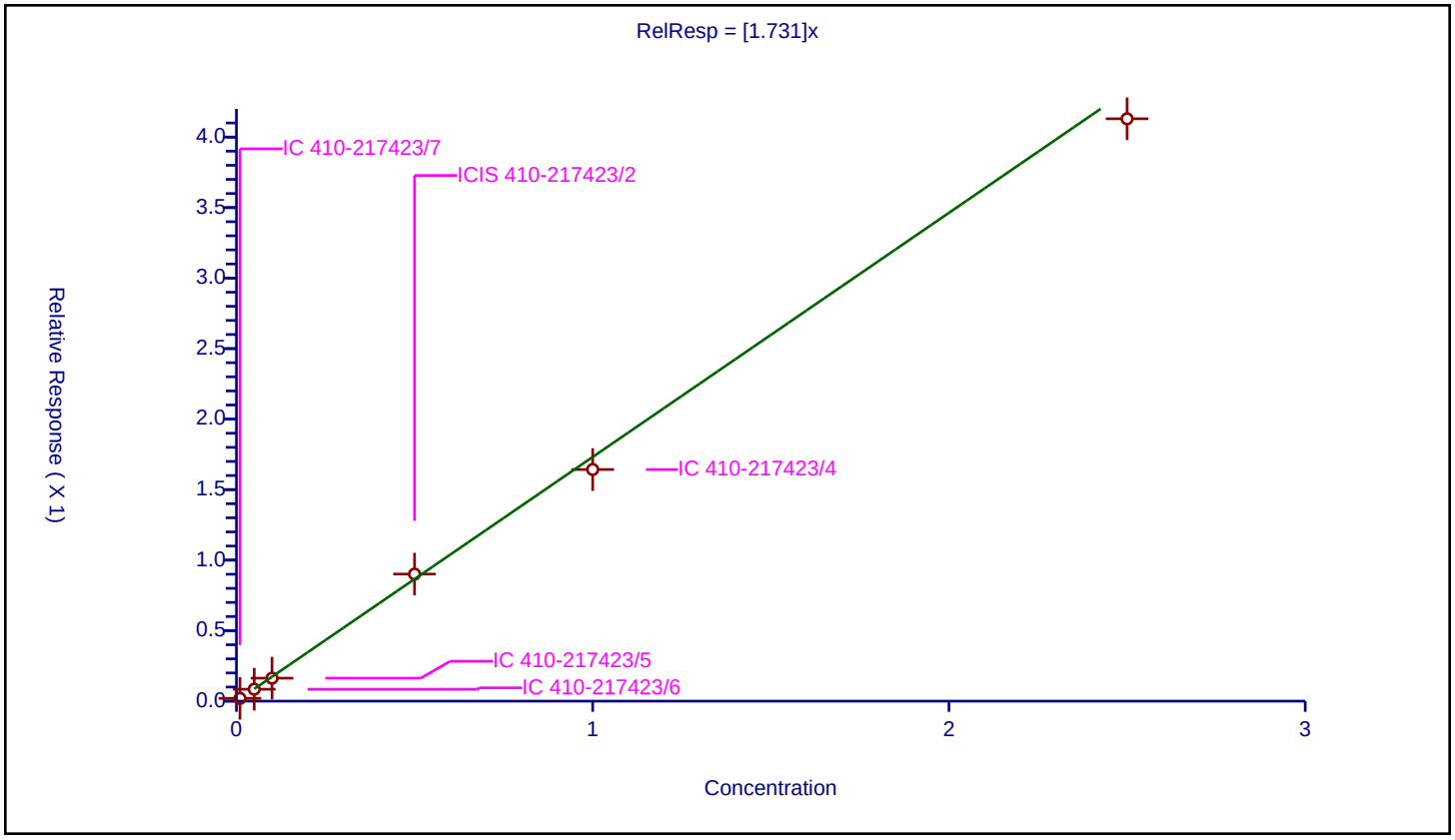
Curve Coefficients

Intercept:	0
Slope:	1.731

Error Coefficients

Standard Error:	1440000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.019742	0.25	161316.0	1.974231	Y
2	IC 410-217423/6	0.05	0.084443	0.25	173665.0	1.688855	Y
3	IC 410-217423/5	0.1	0.162879	0.25	182901.0	1.628791	Y
4	ICIS 410-217423/2	0.5	0.901025	0.25	157490.0	1.802051	Y
5	IC 410-217423/4	1.0	1.642632	0.25	183568.0	1.642632	Y
6	IC 410-217423/3	2.5	4.129923	0.25	177754.0	1.651969	Y



Calibration / Diethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

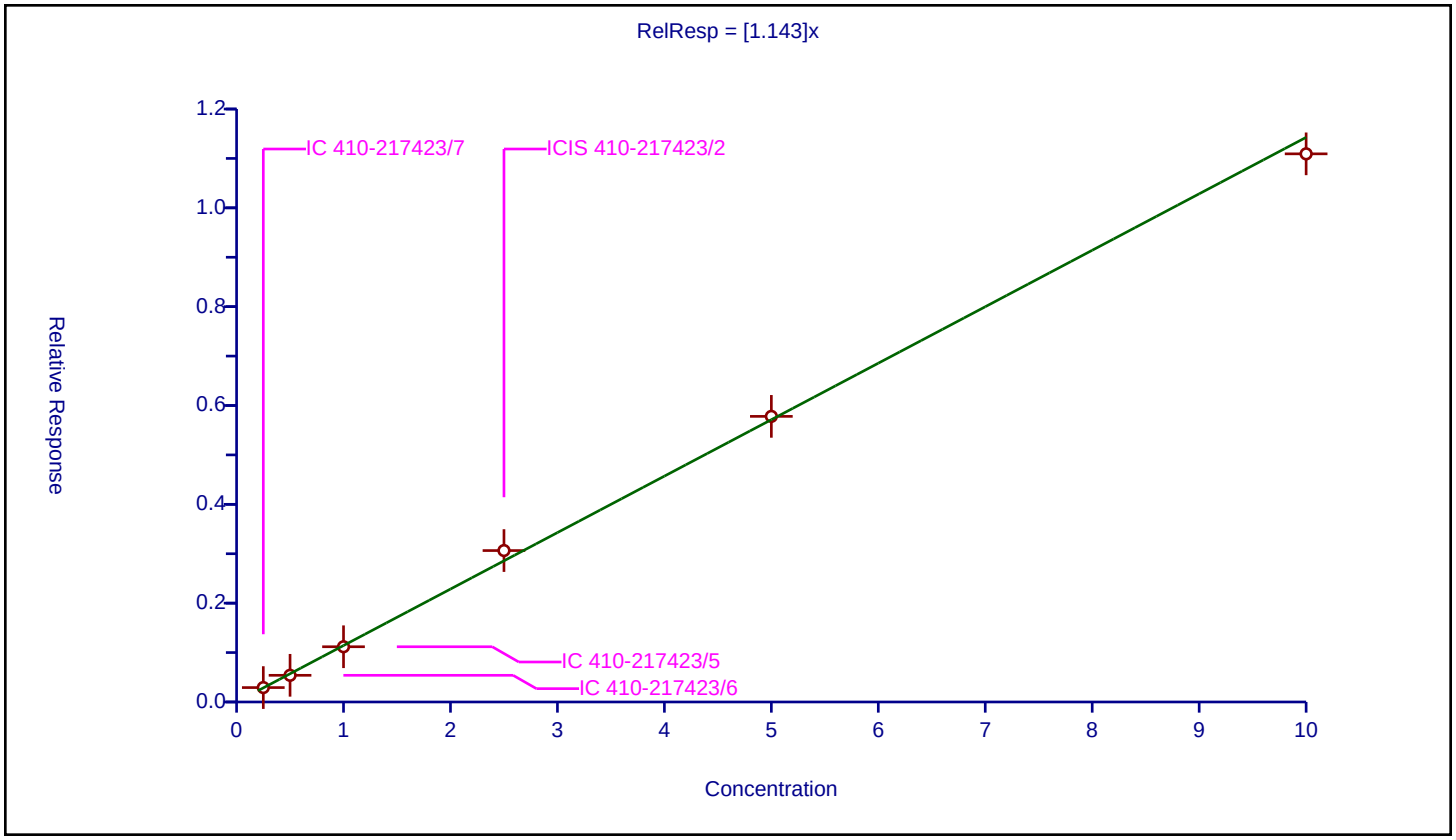
Curve Coefficients

Intercept:	0
Slope:	1.143

Error Coefficients

Standard Error:	4120000
Relative Standard Error:	4.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.25	0.291758	0.25	161316.0	1.167032	Y
2	IC 410-217423/6	0.5	0.539963	0.25	173665.0	1.079927	Y
3	IC 410-217423/5	1.0	1.117841	0.25	182901.0	1.117841	Y
4	ICIS 410-217423/2	2.5	3.06448	0.25	157490.0	1.225792	Y
5	IC 410-217423/4	5.0	5.780141	0.25	183568.0	1.156028	Y
6	IC 410-217423/3	10.0	11.093051	0.25	177754.0	1.109305	Y



Calibration / Fluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

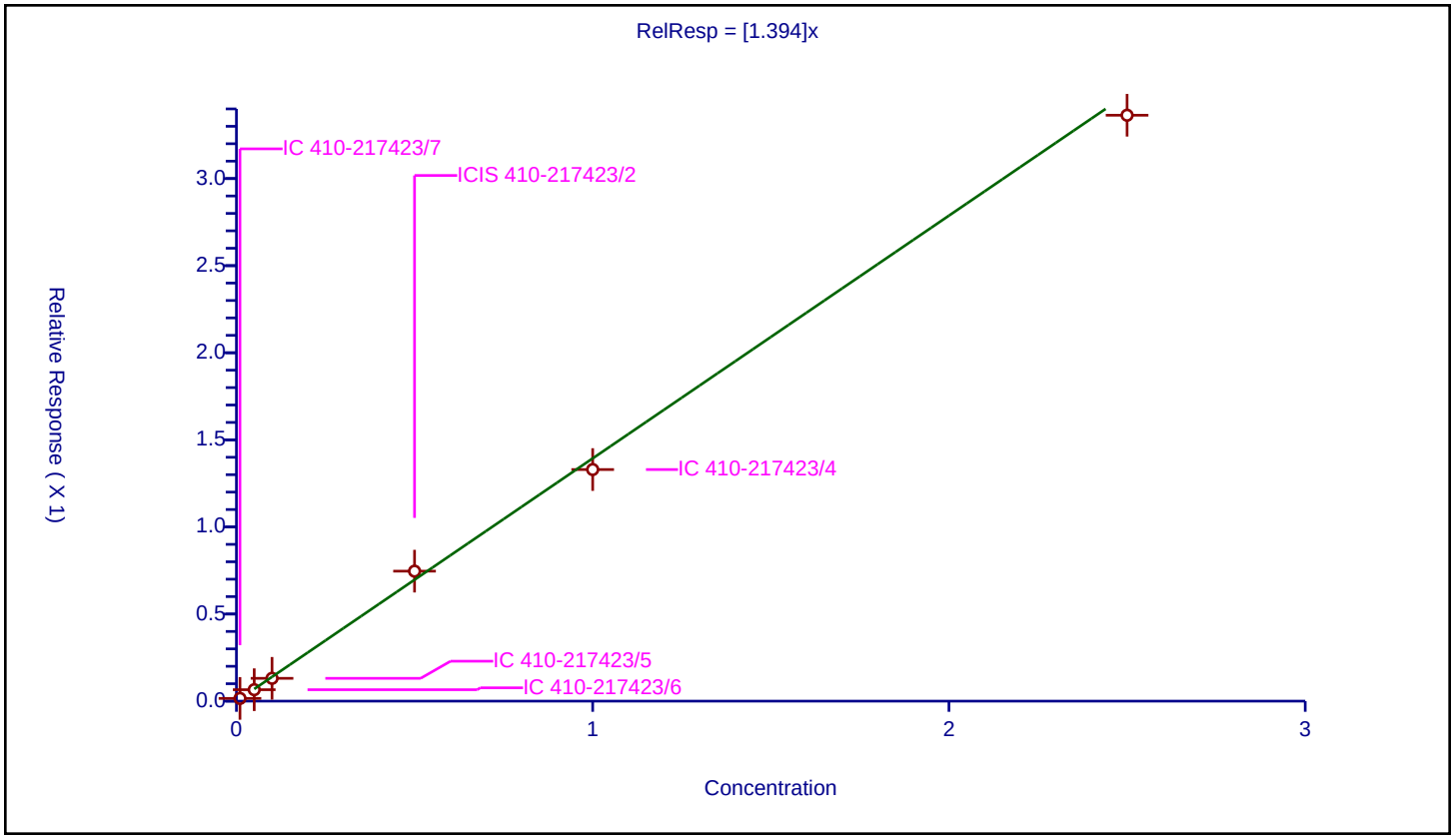
Curve Coefficients

Intercept:	0
Slope:	1.394

Error Coefficients

Standard Error:	1180000
Relative Standard Error:	7.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.015696	0.25	161316.0	1.56959	Y
2	IC 410-217423/6	0.05	0.065737	0.25	173665.0	1.314744	Y
3	IC 410-217423/5	0.1	0.130972	0.25	182901.0	1.309725	Y
4	ICIS 410-217423/2	0.5	0.746189	0.25	157490.0	1.492377	Y
5	IC 410-217423/4	1.0	1.329565	0.25	183568.0	1.329565	Y
6	IC 410-217423/3	2.5	3.363675	0.25	177754.0	1.34547	Y



Calibration / N-Nitrosodiphenylamine

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

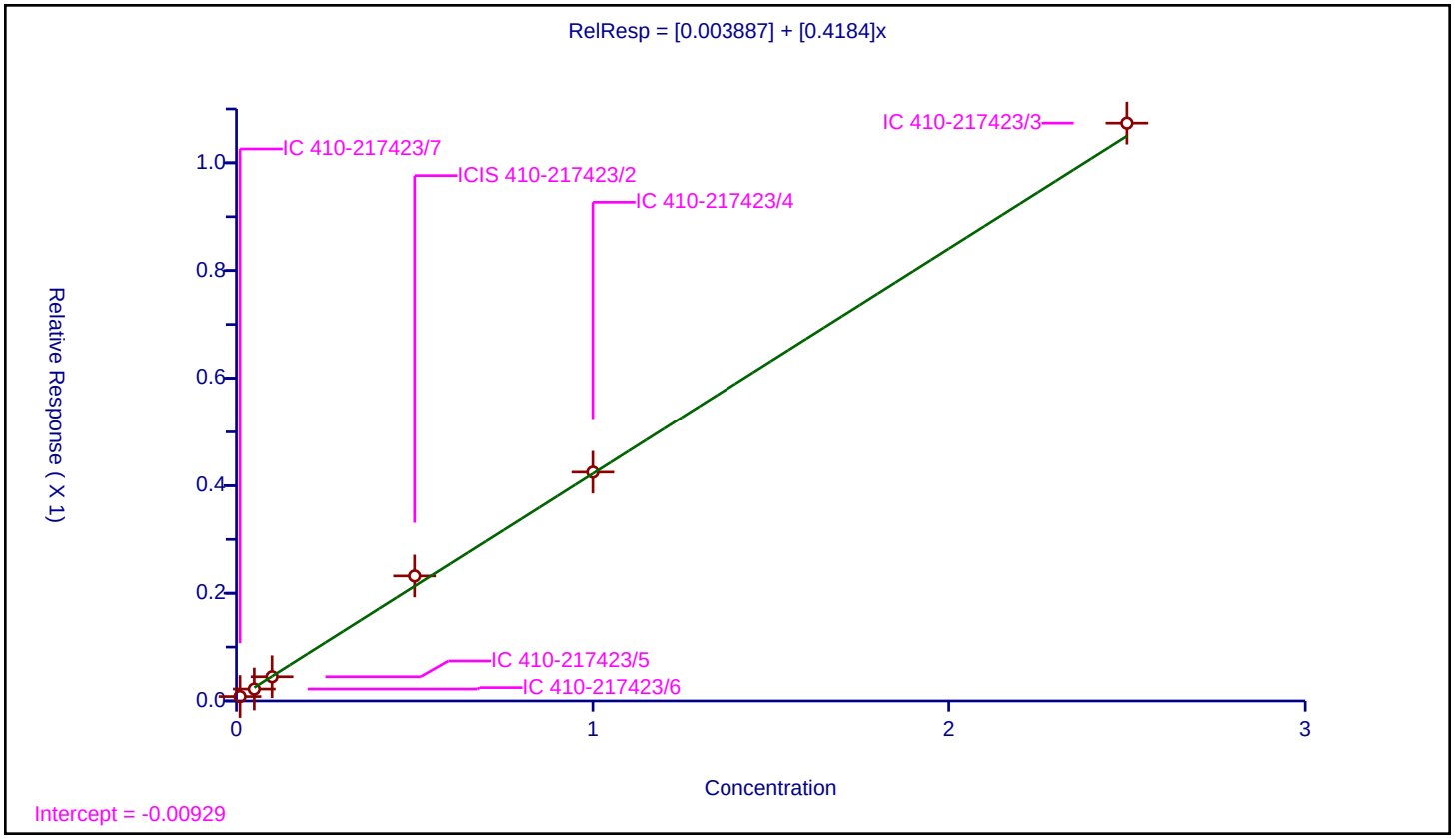
Curve Coefficients

Intercept:	0.003887
Slope:	0.4184

Error Coefficients

Standard Error:	869000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.008177	0.25	328990.0	0.817654	Y
2	IC 410-217423/6	0.05	0.022161	0.25	357225.0	0.443222	Y
3	IC 410-217423/5	0.1	0.044925	0.25	373071.0	0.449251	Y
4	ICIS 410-217423/2	0.5	0.232116	0.25	345456.0	0.464231	Y
5	IC 410-217423/4	1.0	0.425068	0.25	385885.0	0.425068	Y
6	IC 410-217423/3	2.5	1.073711	0.25	366599.0	0.429484	Y



Calibration / Hexachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

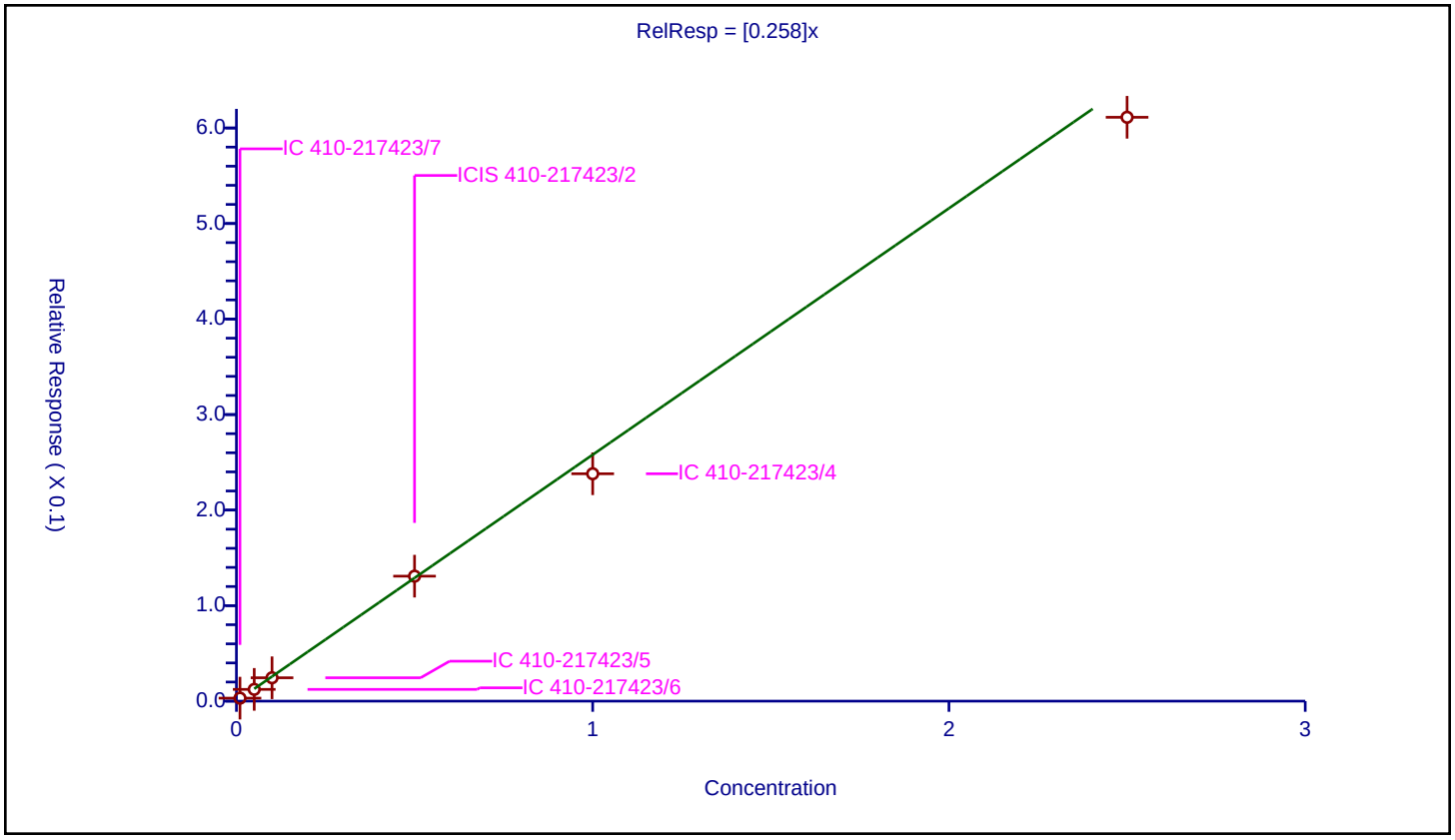
Curve Coefficients

Intercept:	0
Slope:	0.258

Error Coefficients

Standard Error:	441000
Relative Standard Error:	10.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.003126	0.25	328990.0	0.312623	Y
2	IC 410-217423/6	0.05	0.012313	0.25	357225.0	0.246259	Y
3	IC 410-217423/5	0.1	0.024467	0.25	373071.0	0.244672	Y
4	ICIS 410-217423/2	0.5	0.130828	0.25	345456.0	0.261656	Y
5	IC 410-217423/4	1.0	0.238042	0.25	385885.0	0.238042	Y
6	IC 410-217423/3	2.5	0.61122	0.25	366599.0	0.244488	Y



Calibration / Phenanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

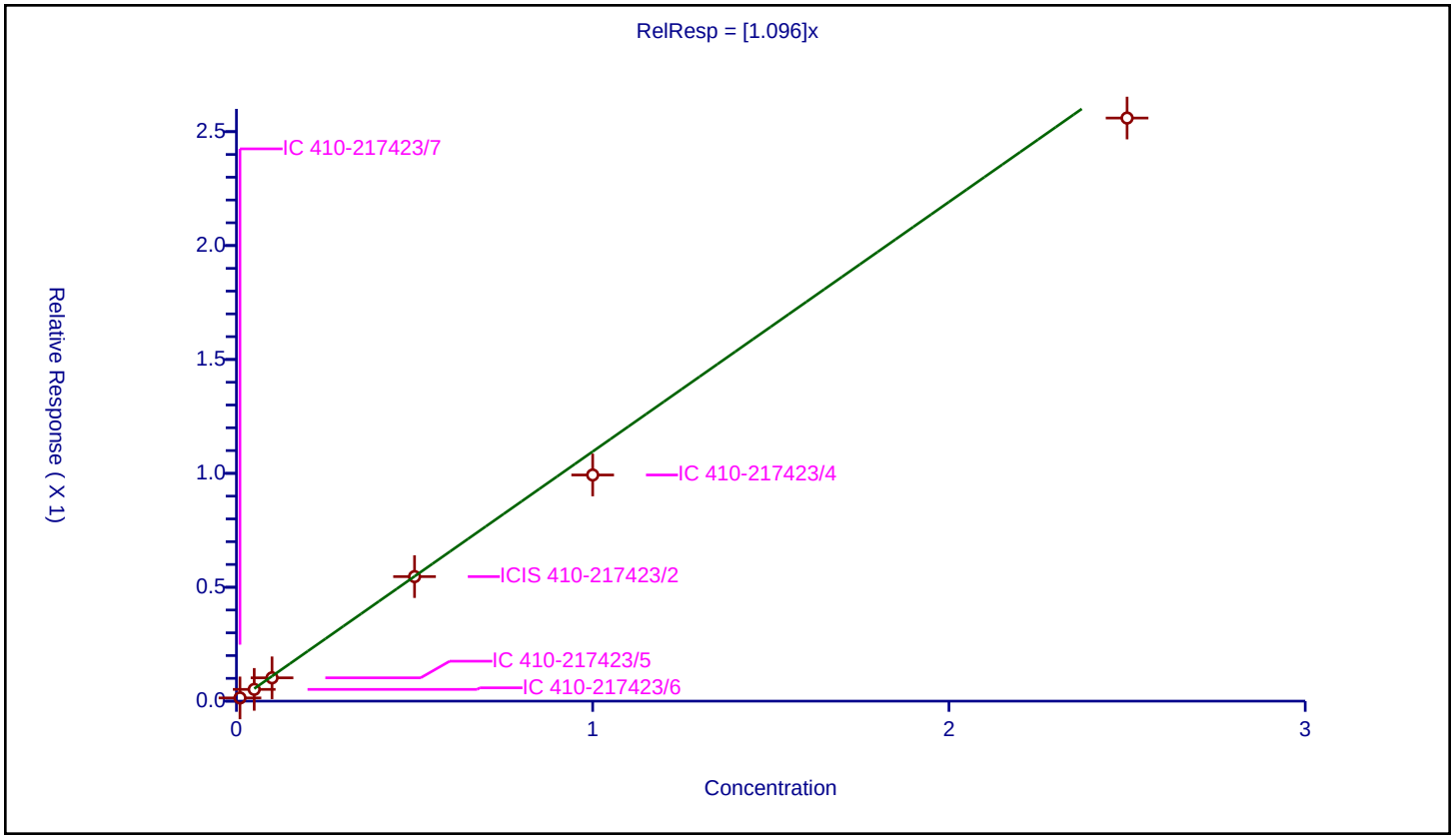
Curve Coefficients

Intercept:	0
Slope:	1.096

Error Coefficients

Standard Error:	1850000
Relative Standard Error:	14.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.014087	0.25	328990.0	1.408705	Y
2	IC 410-217423/6	0.05	0.051611	0.25	357225.0	1.032221	Y
3	IC 410-217423/5	0.1	0.10232	0.25	373071.0	1.023203	Y
4	ICIS 410-217423/2	0.5	0.546633	0.25	345456.0	1.093265	Y
5	IC 410-217423/4	1.0	0.992905	0.25	385885.0	0.992905	Y
6	IC 410-217423/3	2.5	2.559948	0.25	366599.0	1.023979	Y



Calibration / Anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

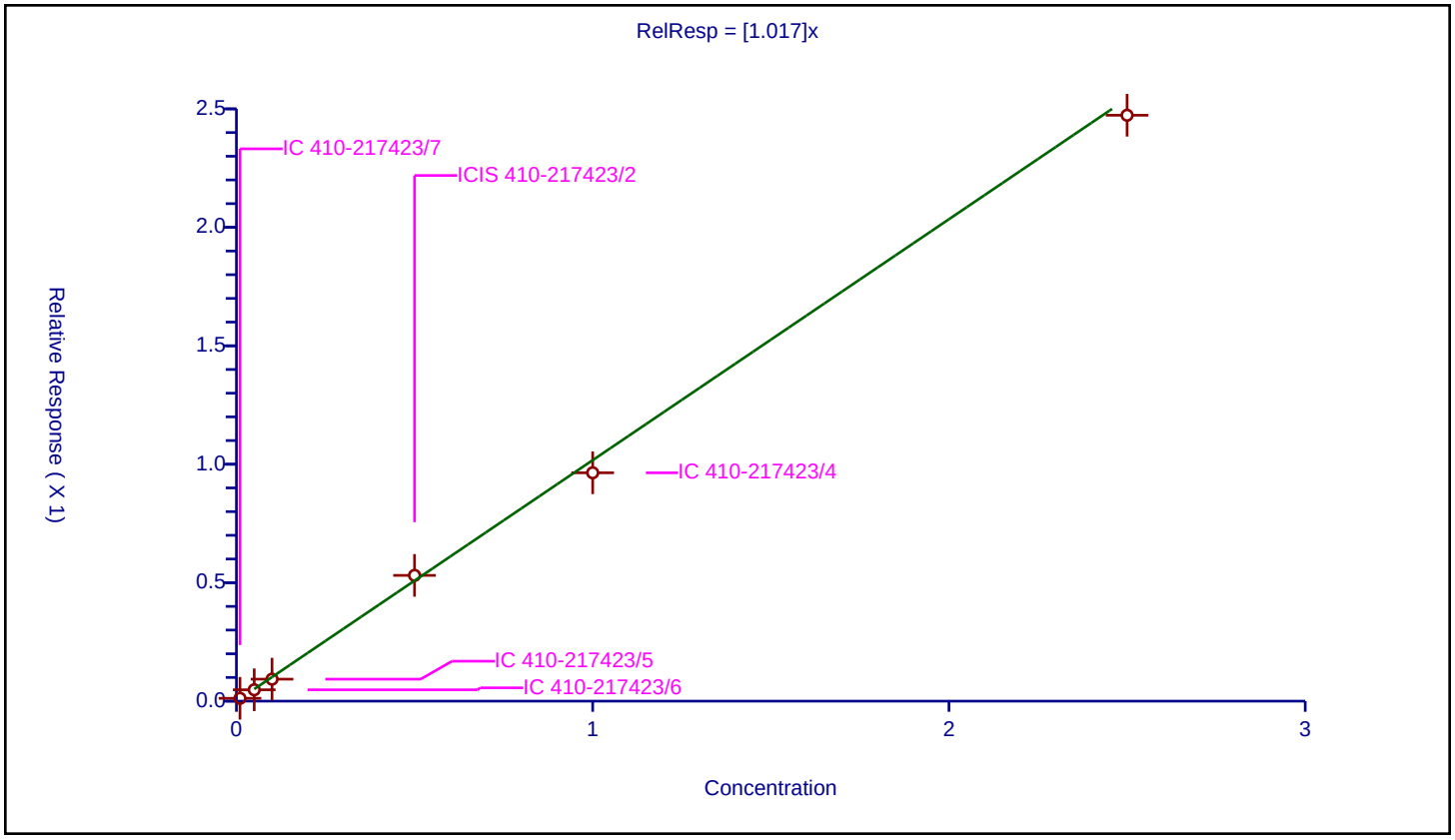
Curve Coefficients

Intercept:	0
Slope:	1.017

Error Coefficients

Standard Error:	1780000
Relative Standard Error:	9.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.012003	0.25	328990.0	1.200264	Y
2	IC 410-217423/6	0.05	0.047989	0.25	357225.0	0.959773	Y
3	IC 410-217423/5	0.1	0.092771	0.25	373071.0	0.927712	Y
4	ICIS 410-217423/2	0.5	0.530873	0.25	345456.0	1.061746	Y
5	IC 410-217423/4	1.0	0.96395	0.25	385885.0	0.96395	Y
6	IC 410-217423/3	2.5	2.473143	0.25	366599.0	0.989257	Y



Calibration / Di-n-butyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

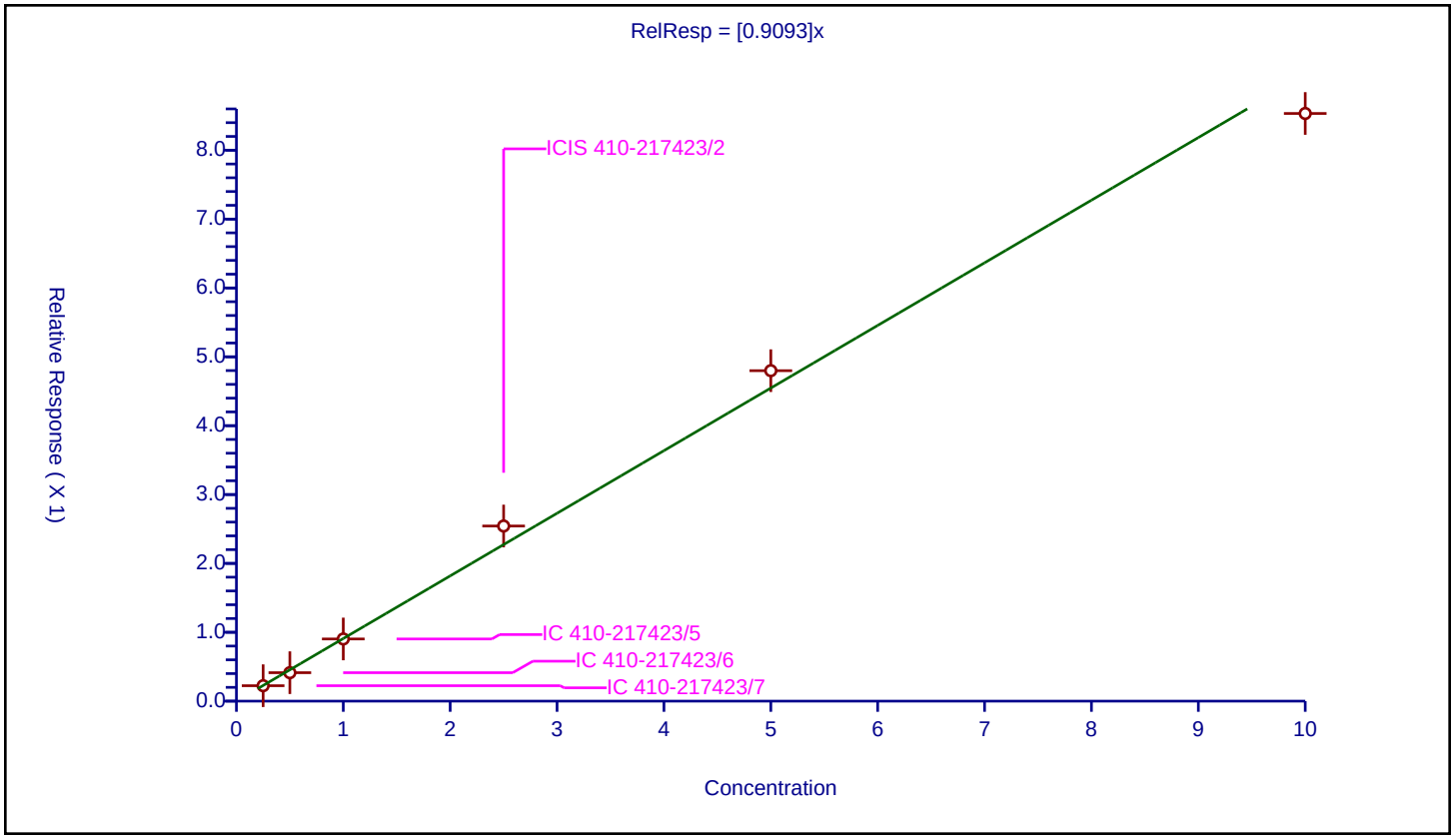
Curve Coefficients

Intercept:	0
Slope:	0.9093

Error Coefficients

Standard Error:	6720000
Relative Standard Error:	7.7
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.25	0.224102	0.25	328990.0	0.896407	Y
2	IC 410-217423/6	0.5	0.413072	0.25	357225.0	0.826145	Y
3	IC 410-217423/5	1.0	0.902821	0.25	373071.0	0.902821	Y
4	ICIS 410-217423/2	2.5	2.543184	0.25	345456.0	1.017274	Y
5	IC 410-217423/4	5.0	4.798755	0.25	385885.0	0.959751	Y
6	IC 410-217423/3	10.0	8.53331	0.25	366599.0	0.853331	Y



Calibration / Fluoranthene-d10 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

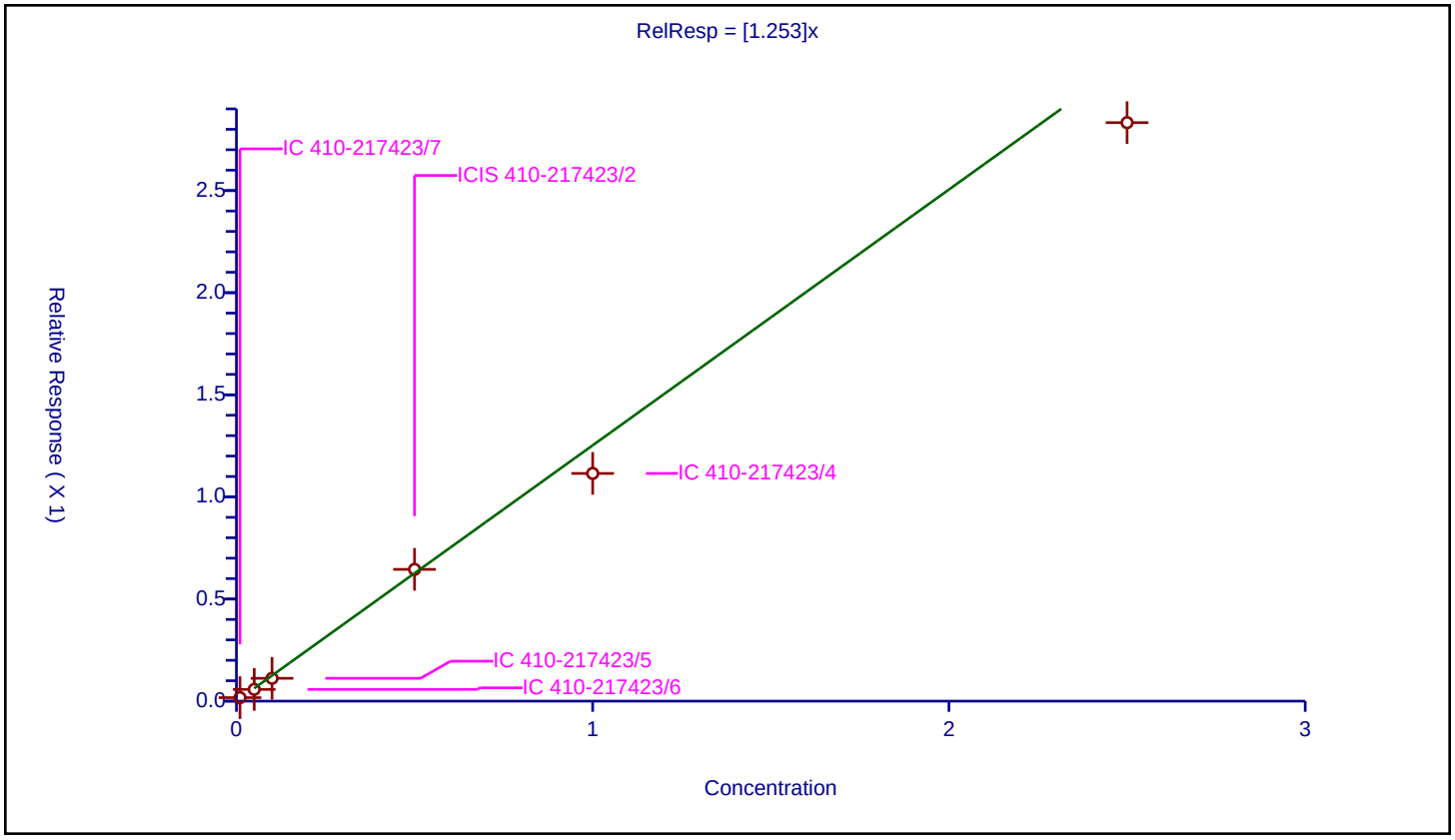
Curve Coefficients

Intercept:	0
Slope:	1.253

Error Coefficients

Standard Error:	2050000
Relative Standard Error:	18.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.950

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.017111	0.25	328990.0	1.71107	Y
2	IC 410-217423/6	0.05	0.057401	0.25	357225.0	1.14803	Y
3	IC 410-217423/5	0.1	0.111788	0.25	373071.0	1.117877	Y
4	ICIS 410-217423/2	0.5	0.645208	0.25	345456.0	1.290416	Y
5	IC 410-217423/4	1.0	1.114998	0.25	385885.0	1.114998	Y
6	IC 410-217423/3	2.5	2.832674	0.25	366599.0	1.13307	Y



Calibration / Fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

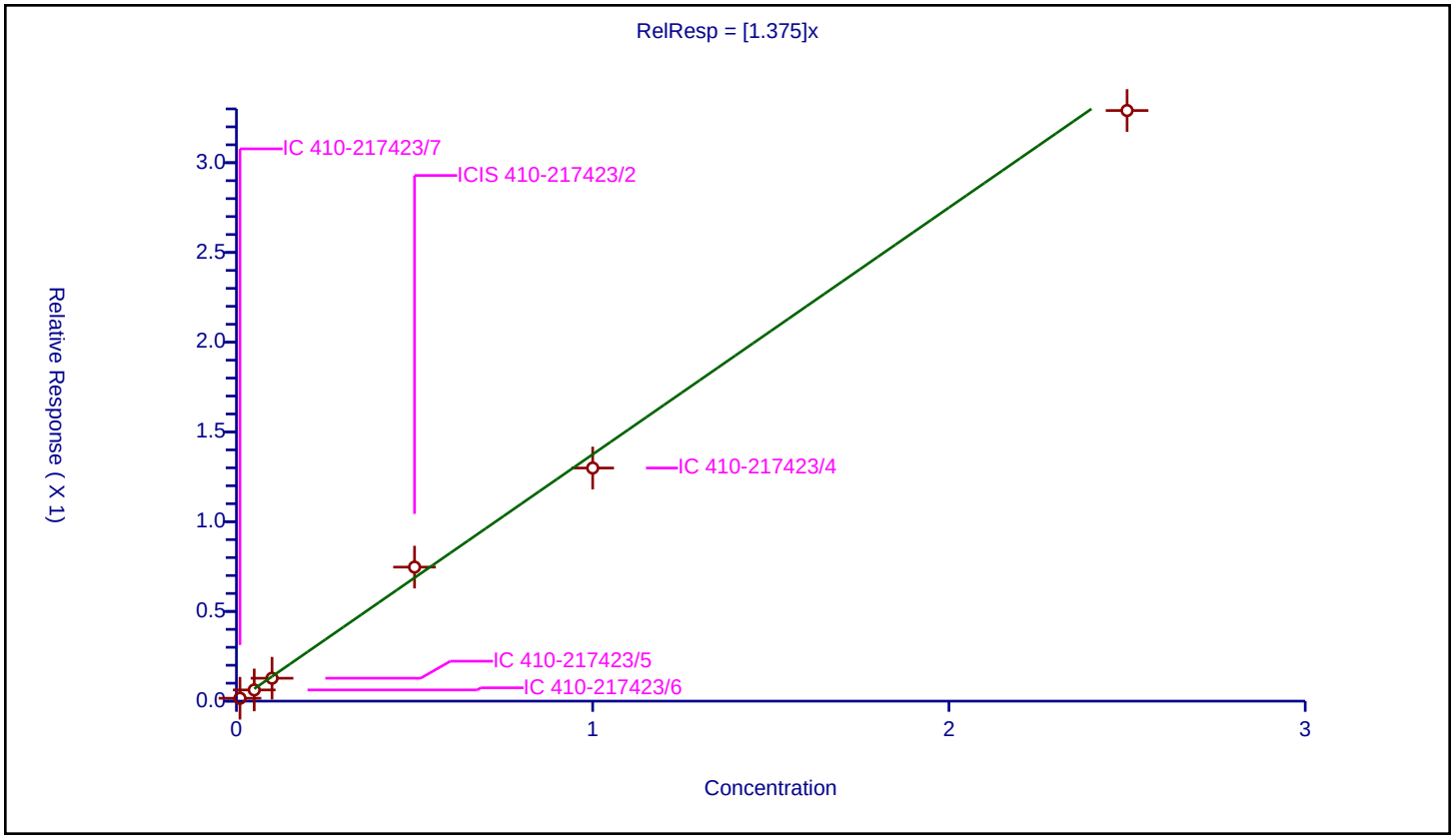
Curve Coefficients

Intercept:	0
Slope:	1.375

Error Coefficients

Standard Error:	2380000
Relative Standard Error:	10.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.016171	0.25	328990.0	1.617146	Y
2	IC 410-217423/6	0.05	0.062335	0.25	357225.0	1.246693	Y
3	IC 410-217423/5	0.1	0.127706	0.25	373071.0	1.277063	Y
4	ICIS 410-217423/2	0.5	0.746825	0.25	345456.0	1.49365	Y
5	IC 410-217423/4	1.0	1.298875	0.25	385885.0	1.298875	Y
6	IC 410-217423/3	2.5	3.290992	0.25	366599.0	1.316397	Y



Calibration / Pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

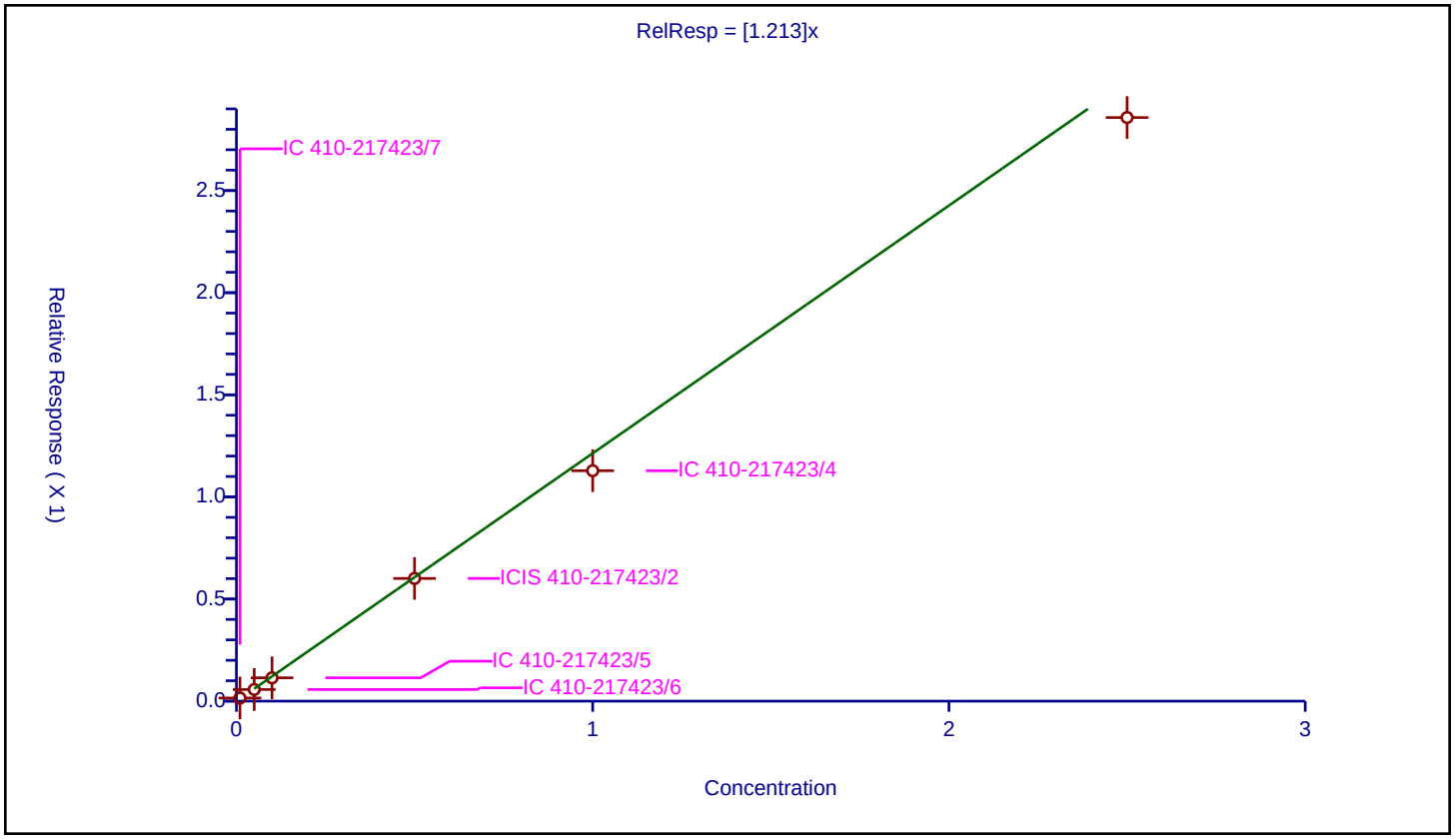
Curve Coefficients

Intercept:	0
Slope:	1.213

Error Coefficients

Standard Error:	2490000
Relative Standard Error:	12.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.015265	0.25	373997.0	1.526483	Y
2	IC 410-217423/6	0.05	0.056948	0.25	406973.0	1.138958	Y
3	IC 410-217423/5	0.1	0.114164	0.25	431252.0	1.141635	Y
4	ICIS 410-217423/2	0.5	0.600804	0.25	450984.0	1.201608	Y
5	IC 410-217423/4	1.0	1.128311	0.25	462337.0	1.128311	Y
6	IC 410-217423/3	2.5	2.857673	0.25	440077.0	1.143069	Y



Calibration / Butyl benzyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

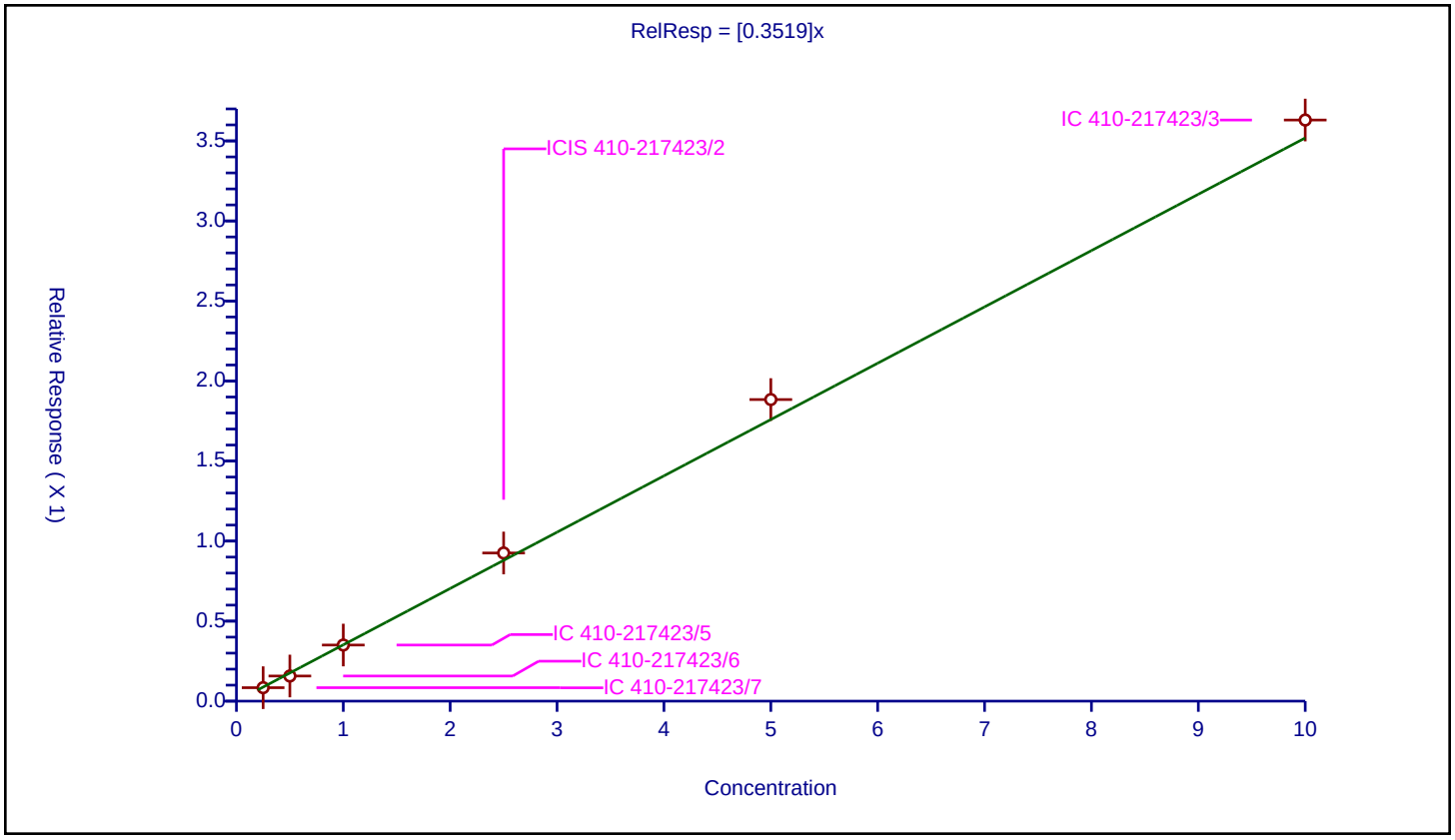
Curve Coefficients

Intercept:	0
Slope:	0.3519

Error Coefficients

Standard Error:	3350000
Relative Standard Error:	6.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.25	0.084118	0.25	373997.0	0.336471	Y
2	IC 410-217423/6	0.5	0.156978	0.25	406973.0	0.313957	Y
3	IC 410-217423/5	1.0	0.350555	0.25	431252.0	0.350555	Y
4	ICIS 410-217423/2	2.5	0.925628	0.25	450984.0	0.370251	Y
5	IC 410-217423/4	5.0	1.884133	0.25	462337.0	0.376827	Y
6	IC 410-217423/3	10.0	3.630407	0.25	440077.0	0.363041	Y



Calibration / Benzo[a]anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

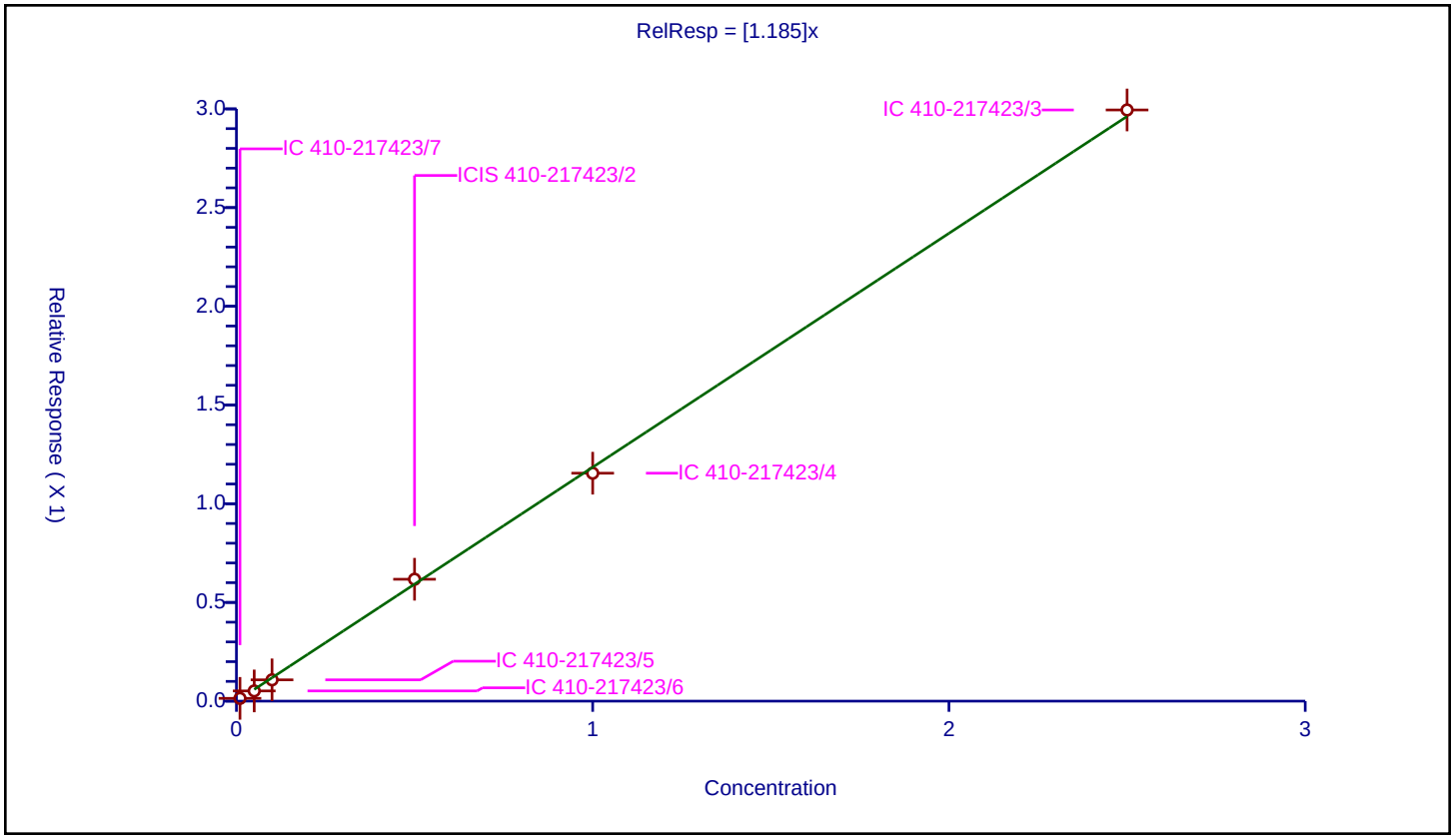
Curve Coefficients

Intercept:	0
Slope:	1.185

Error Coefficients

Standard Error:	2590000
Relative Standard Error:	11.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.01408	0.25	373997.0	1.408033	Y
2	IC 410-217423/6	0.05	0.051769	0.25	406973.0	1.035376	Y
3	IC 410-217423/5	0.1	0.107845	0.25	431252.0	1.078453	Y
4	ICIS 410-217423/2	0.5	0.617368	0.25	450984.0	1.234736	Y
5	IC 410-217423/4	1.0	1.154597	0.25	462337.0	1.154597	Y
6	IC 410-217423/3	2.5	2.994582	0.25	440077.0	1.197833	Y



Calibration / Chrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

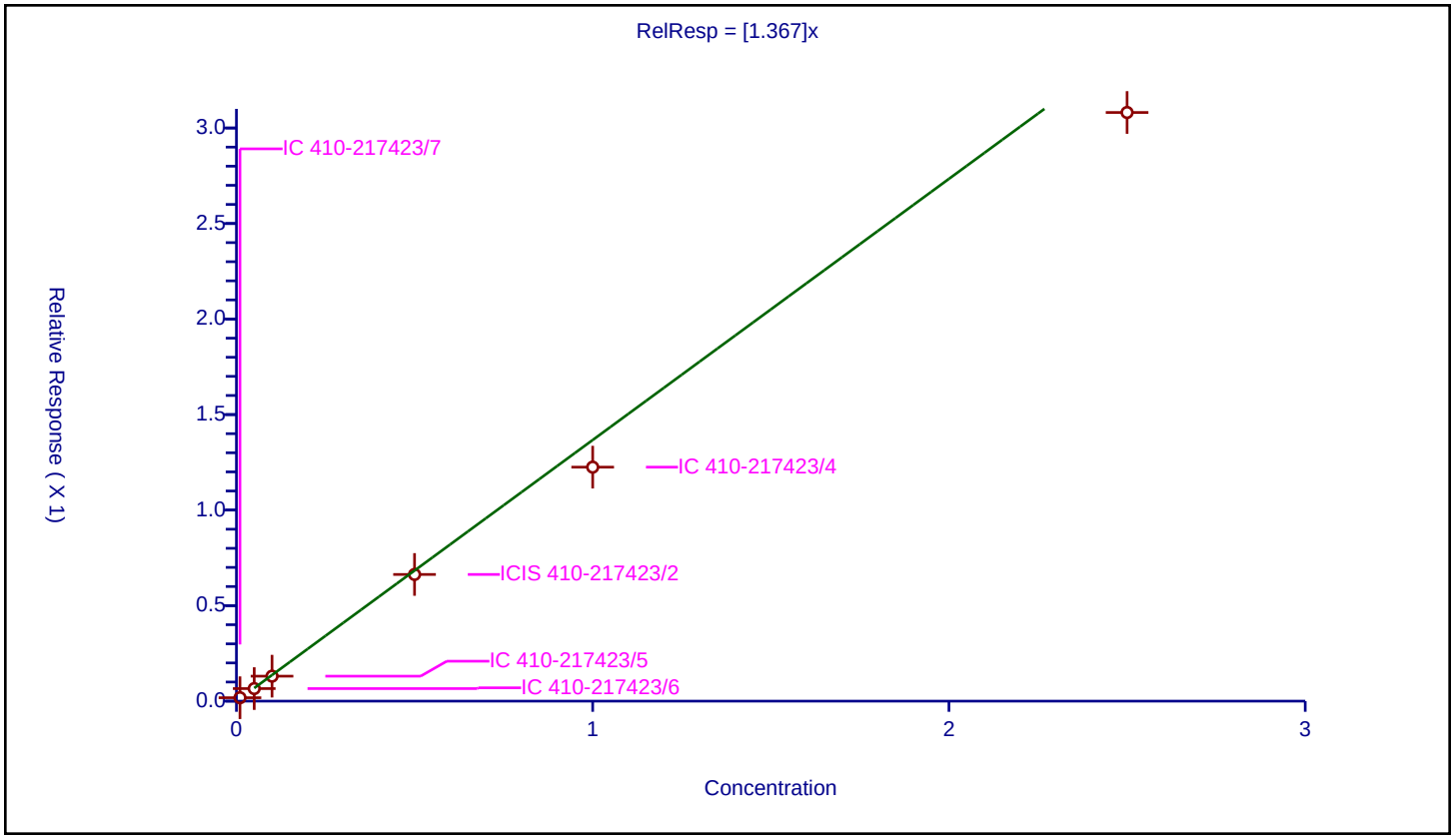
Curve Coefficients

Intercept:	0
Slope:	1.367

Error Coefficients

Standard Error:	2680000
Relative Standard Error:	15.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.966

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.017949	0.25	373997.0	1.794934	Y
2	IC 410-217423/6	0.05	0.065775	0.25	406973.0	1.315505	Y
3	IC 410-217423/5	0.1	0.130735	0.25	431252.0	1.30735	Y
4	ICIS 410-217423/2	0.5	0.663076	0.25	450984.0	1.326151	Y
5	IC 410-217423/4	1.0	1.22481	0.25	462337.0	1.22481	Y
6	IC 410-217423/3	2.5	3.081199	0.25	440077.0	1.23248	Y



Calibration / Bis(2-ethylhexyl) phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

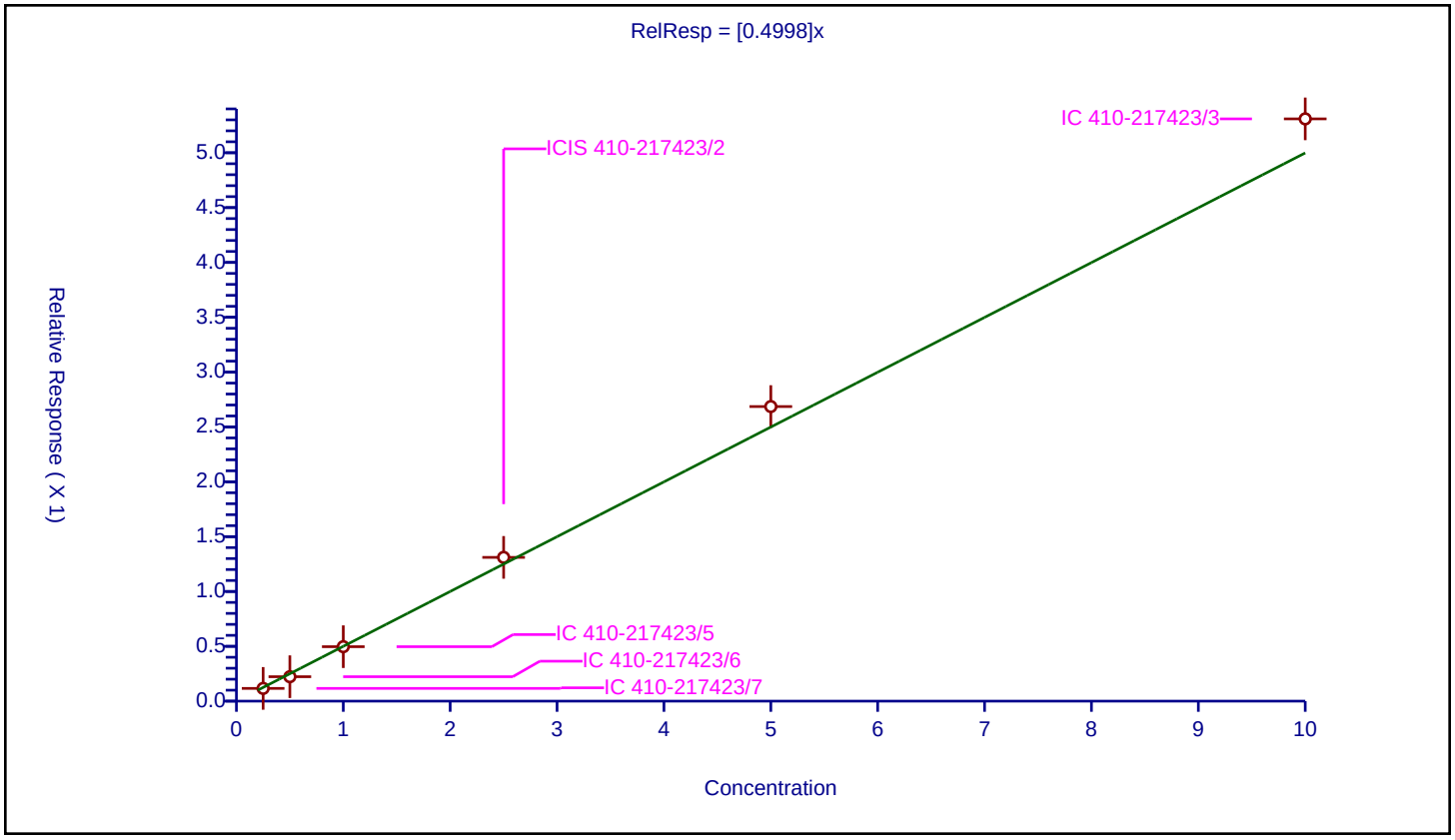
Curve Coefficients

Intercept:	0
Slope:	0.4998

Error Coefficients

Standard Error:	4870000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.25	0.116161	0.25	373997.0	0.464645	Y
2	IC 410-217423/6	0.5	0.222717	0.25	406973.0	0.445435	Y
3	IC 410-217423/5	1.0	0.496486	0.25	431252.0	0.496486	Y
4	ICIS 410-217423/2	2.5	1.310773	0.25	450984.0	0.524309	Y
5	IC 410-217423/4	5.0	2.685904	0.25	462337.0	0.537181	Y
6	IC 410-217423/3	10.0	5.308936	0.25	440077.0	0.530894	Y



Calibration / Di-n-octyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

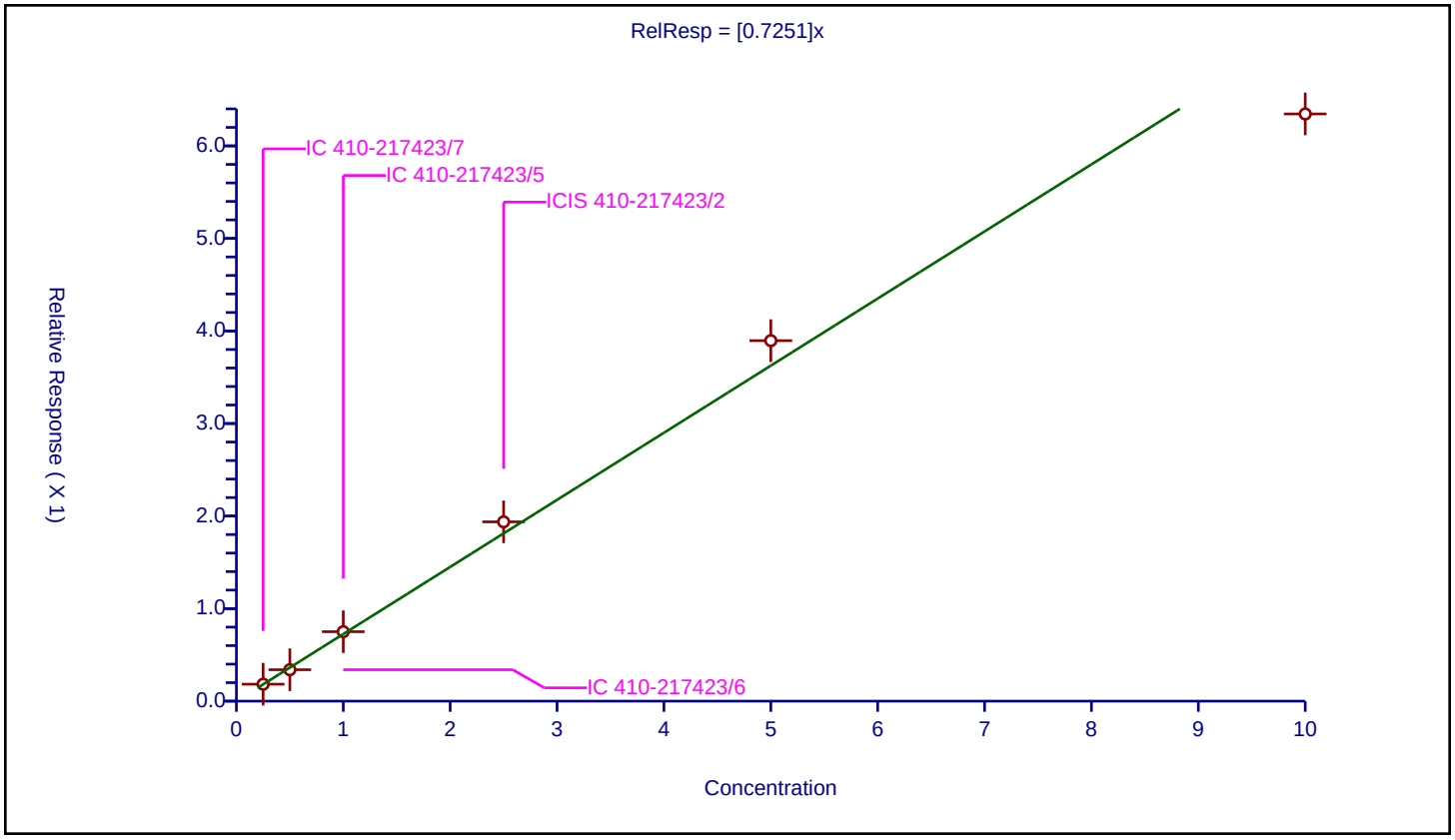
Curve Coefficients

Intercept:	0
Slope:	0.7251

Error Coefficients

Standard Error:	7780000
Relative Standard Error:	7.9
Correlation Coefficient:	0.988
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.25	0.183064	0.25	409775.0	0.732258	Y
2	IC 410-217423/6	0.5	0.339559	0.25	466417.0	0.679118	Y
3	IC 410-217423/5	1.0	0.750476	0.25	496295.0	0.750476	Y
4	ICIS 410-217423/2	2.5	1.937342	0.25	533802.0	0.774937	Y
5	IC 410-217423/4	5.0	3.895445	0.25	558082.0	0.779089	Y
6	IC 410-217423/3	10.0	6.345432	0.25	566756.0	0.634543	Y



Calibration / Benzo[b]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

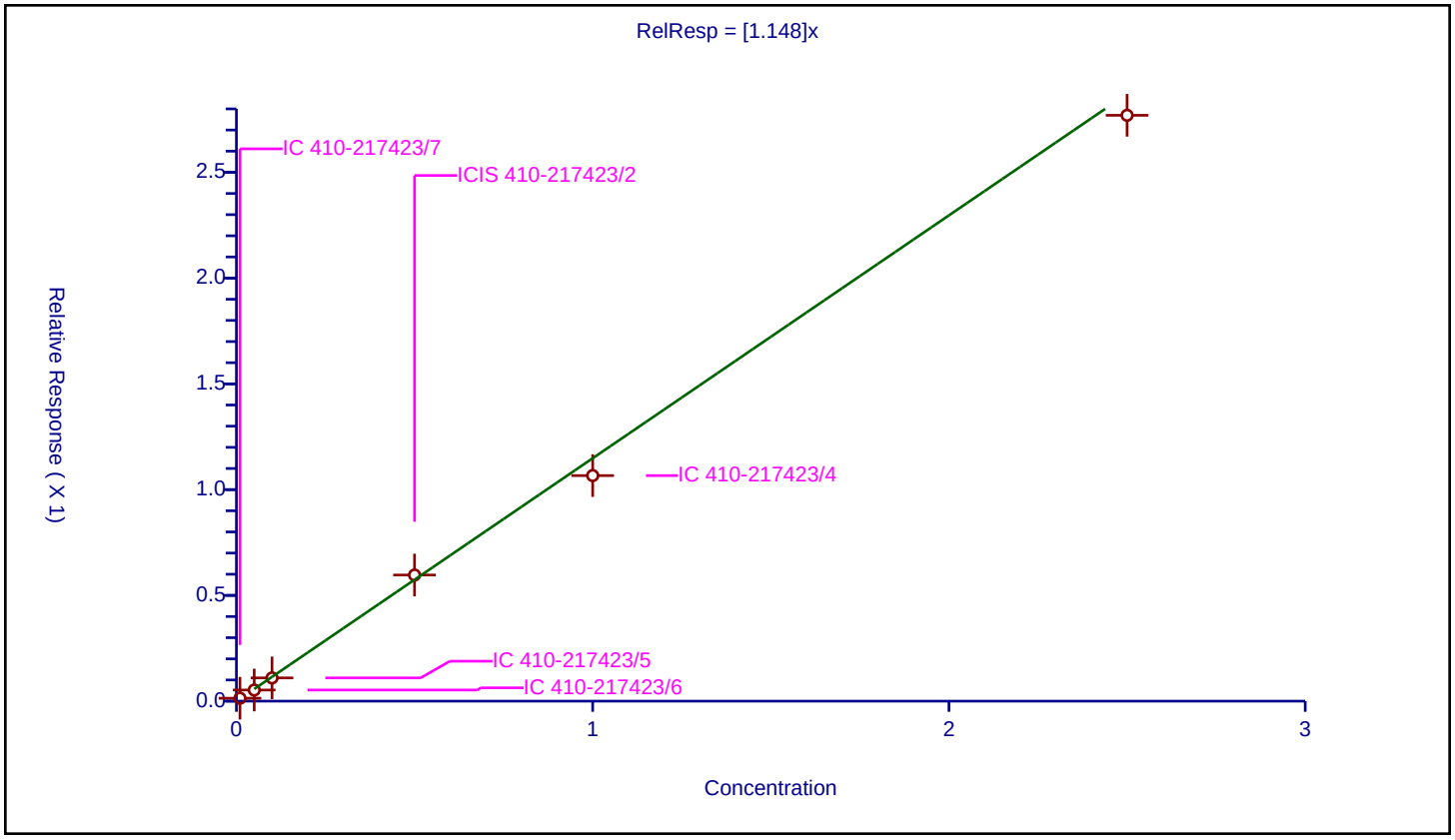
Curve Coefficients

Intercept:	0
Slope:	1.148

Error Coefficients

Standard Error:	3060000
Relative Standard Error:	10.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.013738	0.25	409775.0	1.373803	Y
2	IC 410-217423/6	0.05	0.052537	0.25	466417.0	1.050744	Y
3	IC 410-217423/5	0.1	0.109816	0.25	496295.0	1.098162	Y
4	ICIS 410-217423/2	0.5	0.596346	0.25	533802.0	1.192692	Y
5	IC 410-217423/4	1.0	1.06633	0.25	558082.0	1.06633	Y
6	IC 410-217423/3	2.5	2.76966	0.25	566756.0	1.107864	Y



Calibration / Benzo[k]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

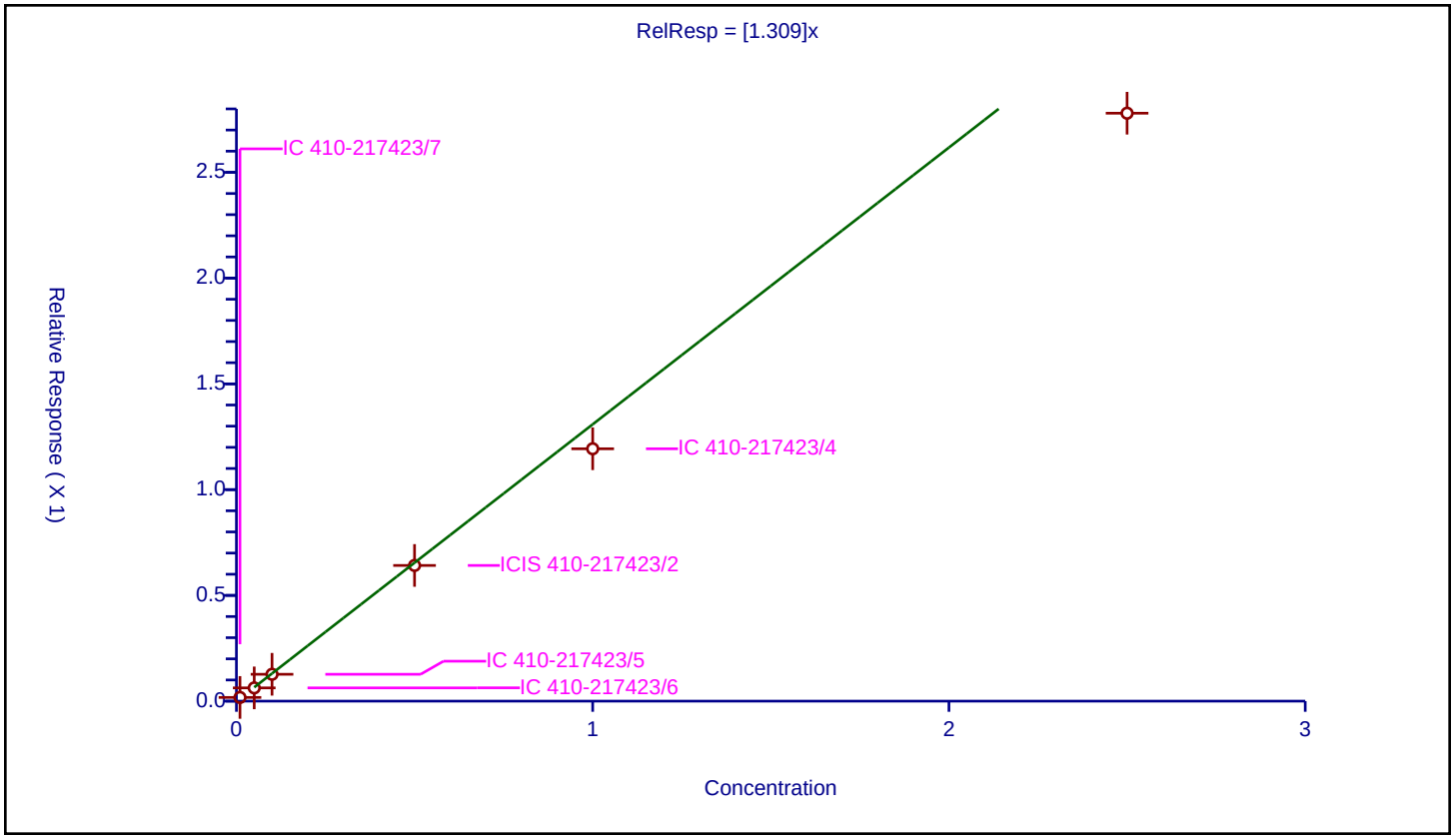
Curve Coefficients

Intercept:	0
Slope:	1.309

Error Coefficients

Standard Error:	3120000
Relative Standard Error:	16.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.960

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.017424	0.25	409775.0	1.74242	Y
2	IC 410-217423/6	0.05	0.062595	0.25	466417.0	1.251905	Y
3	IC 410-217423/5	0.1	0.126975	0.25	496295.0	1.269754	Y
4	ICIS 410-217423/2	0.5	0.641479	0.25	533802.0	1.282958	Y
5	IC 410-217423/4	1.0	1.193179	0.25	558082.0	1.193179	Y
6	IC 410-217423/3	2.5	2.779555	0.25	566756.0	1.111822	Y



Calibration / Benzo[e]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

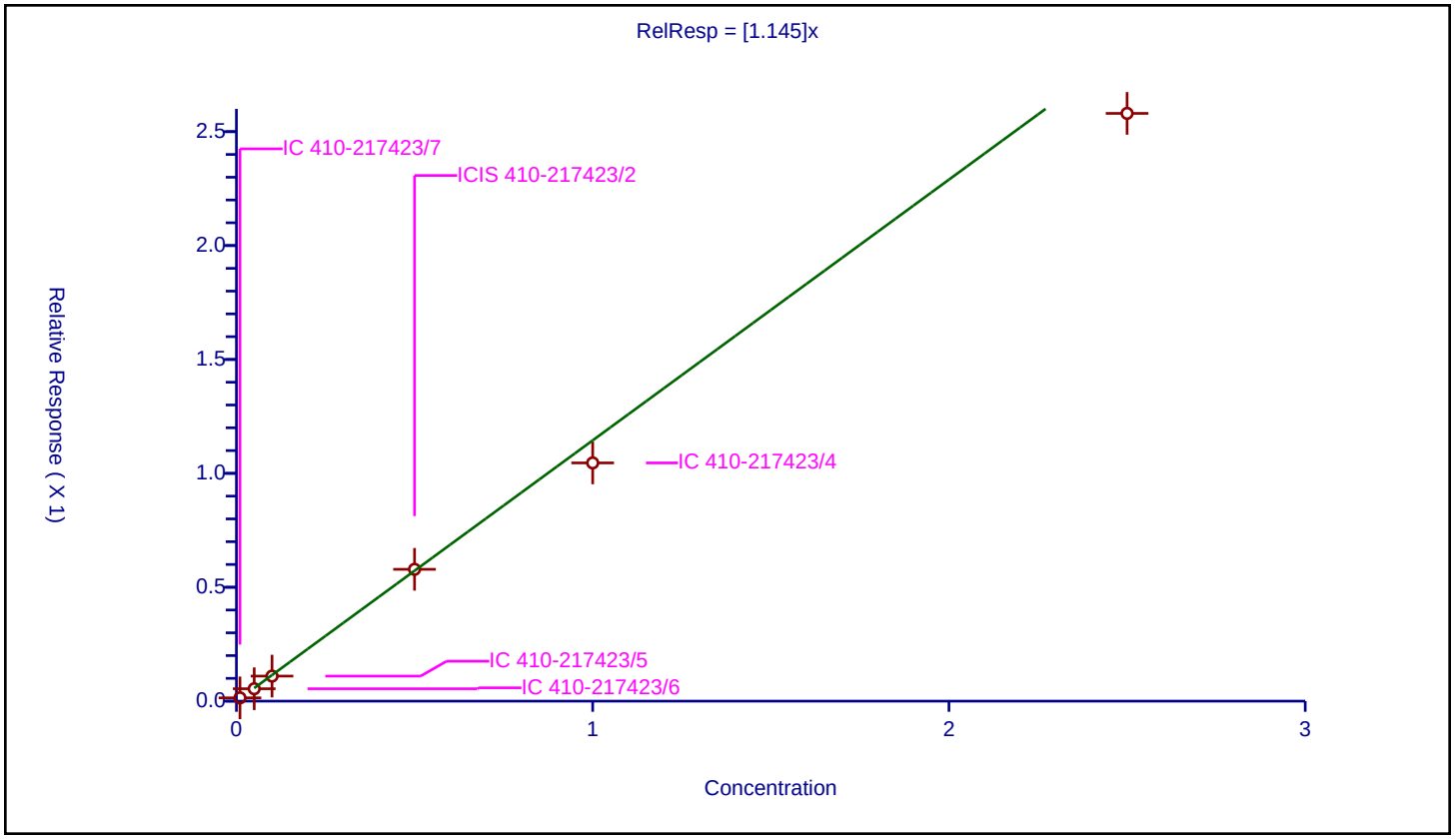
Curve Coefficients

Intercept:	0
Slope:	1.145

Error Coefficients

Standard Error:	2870000
Relative Standard Error:	13.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.014452	0.25	409775.0	1.445183	Y
2	IC 410-217423/6	0.05	0.054404	0.25	466417.0	1.088082	Y
3	IC 410-217423/5	0.1	0.109971	0.25	496295.0	1.099709	Y
4	ICIS 410-217423/2	0.5	0.578736	0.25	533802.0	1.157472	Y
5	IC 410-217423/4	1.0	1.045858	0.25	558082.0	1.045858	Y
6	IC 410-217423/3	2.5	2.580266	0.25	566756.0	1.032107	Y



Calibration / Benzo(a)pyrene-d12 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

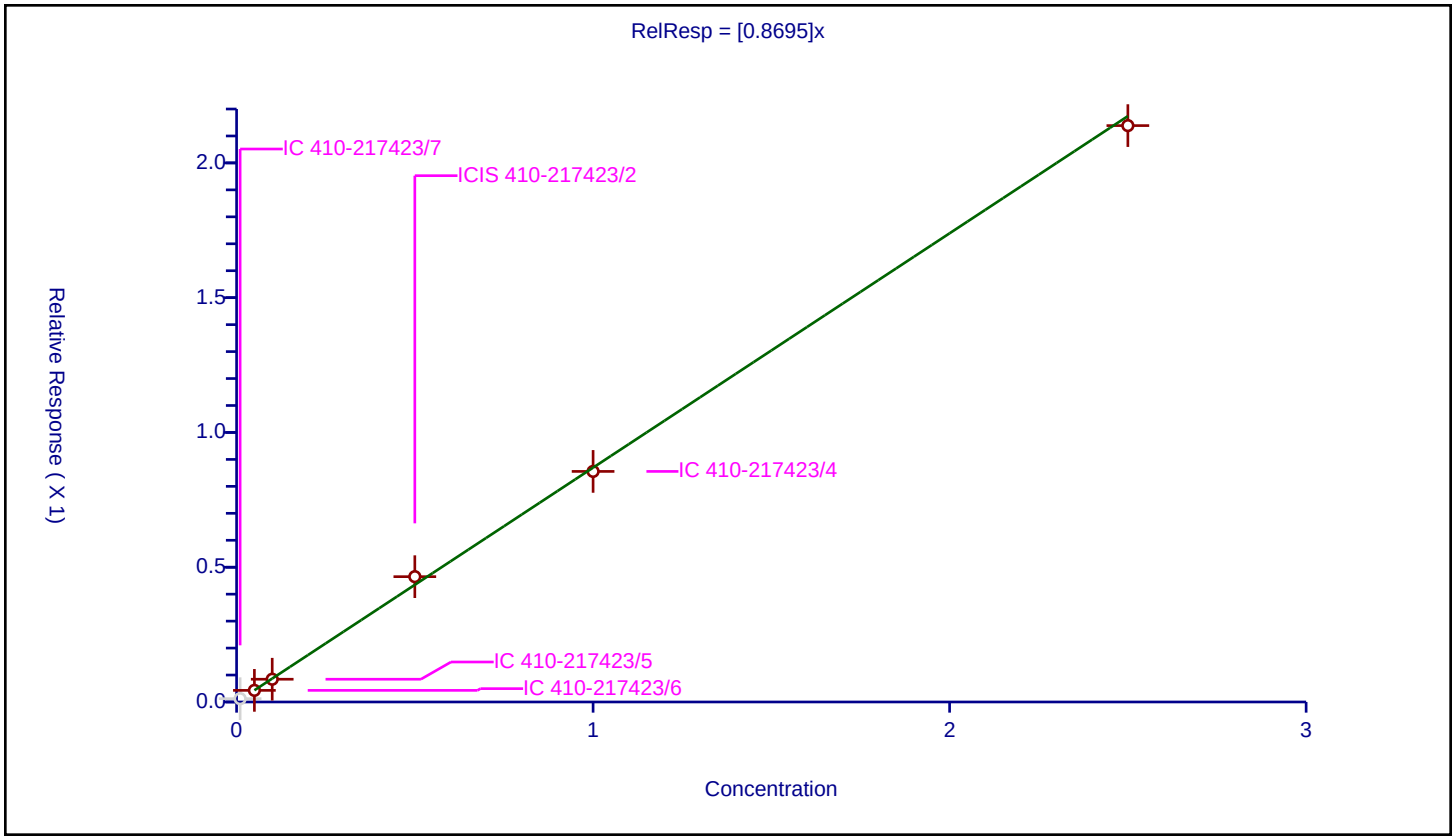
Curve Coefficients

Intercept:	0
Slope:	0.8695

Error Coefficients

Standard Error:	2650000
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 410-217423/7	0.01	0.012325	0.25	409775.0	1.232506	N
2	IC 410-217423/6	0.05	0.043126	0.25	466417.0	0.862522	Y
3	IC 410-217423/5	0.1	0.084393	0.25	496295.0	0.843934	Y
4	ICIS 410-217423/2	0.5	0.464977	0.25	533802.0	0.929953	Y
5	IC 410-217423/4	1.0	0.855467	0.25	558082.0	0.855467	Y
6	IC 410-217423/3	2.5	2.138444	0.25	566756.0	0.855378	Y



Calibration / Benzo[a]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

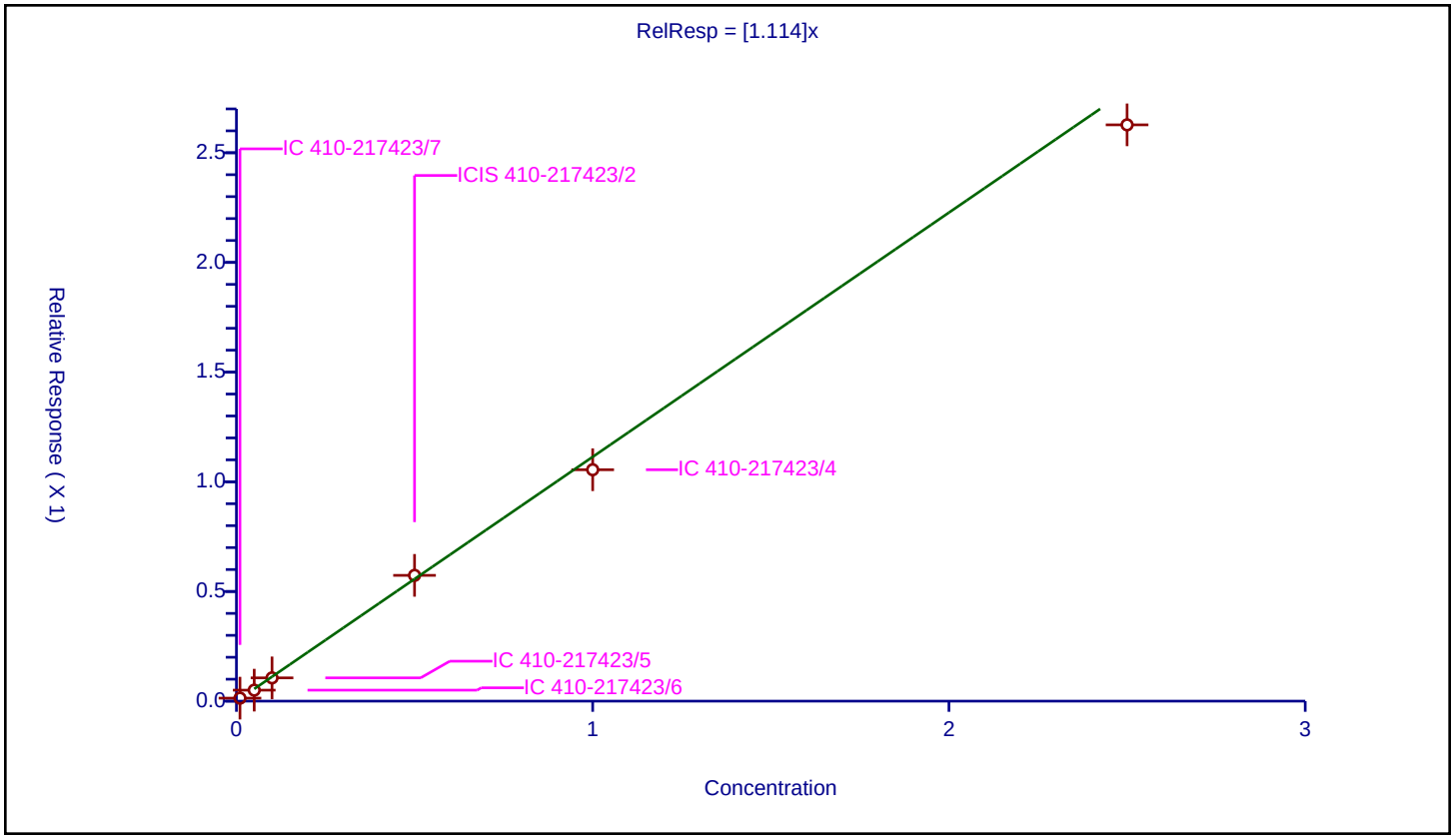
Curve Coefficients

Intercept:	0
Slope:	1.114

Error Coefficients

Standard Error:	2920000
Relative Standard Error:	11.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.013667	0.25	409775.0	1.366726	Y
2	IC 410-217423/6	0.05	0.050101	0.25	466417.0	1.002022	Y
3	IC 410-217423/5	0.1	0.106022	0.25	496295.0	1.060221	Y
4	ICIS 410-217423/2	0.5	0.573457	0.25	533802.0	1.146914	Y
5	IC 410-217423/4	1.0	1.055013	0.25	558082.0	1.055013	Y
6	IC 410-217423/3	2.5	2.627261	0.25	566756.0	1.050904	Y



Calibration / Perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

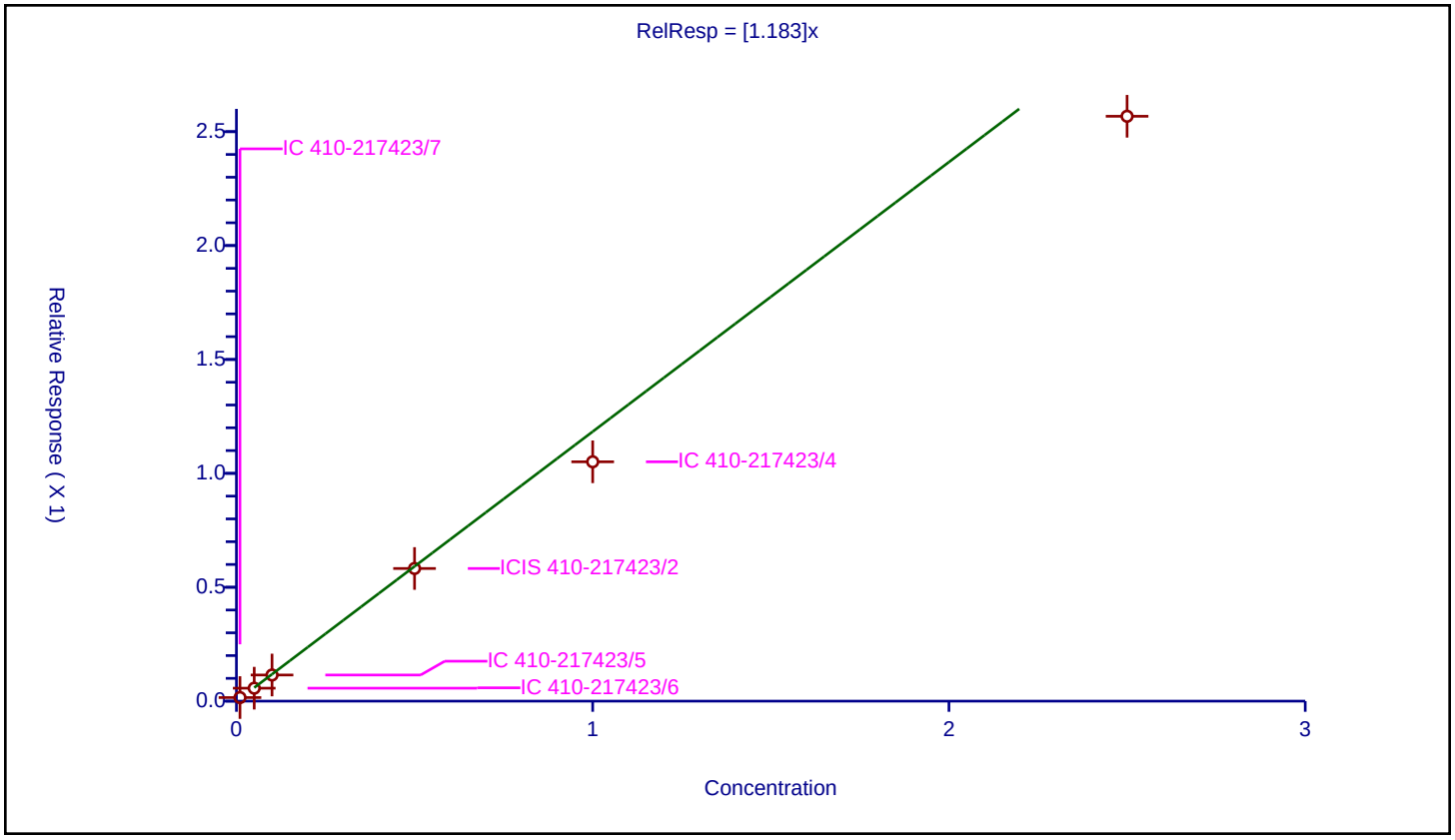
Curve Coefficients

Intercept:	0
Slope:	1.183

Error Coefficients

Standard Error:	2860000
Relative Standard Error:	16.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.961

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.015709	0.25	409775.0	1.570862	Y
2	IC 410-217423/6	0.05	0.056933	0.25	466417.0	1.138659	Y
3	IC 410-217423/5	0.1	0.114755	0.25	496295.0	1.147548	Y
4	ICIS 410-217423/2	0.5	0.582371	0.25	533802.0	1.164742	Y
5	IC 410-217423/4	1.0	1.050696	0.25	558082.0	1.050696	Y
6	IC 410-217423/3	2.5	2.567661	0.25	566756.0	1.027065	Y



Calibration / Indeno[1,2,3-cd]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

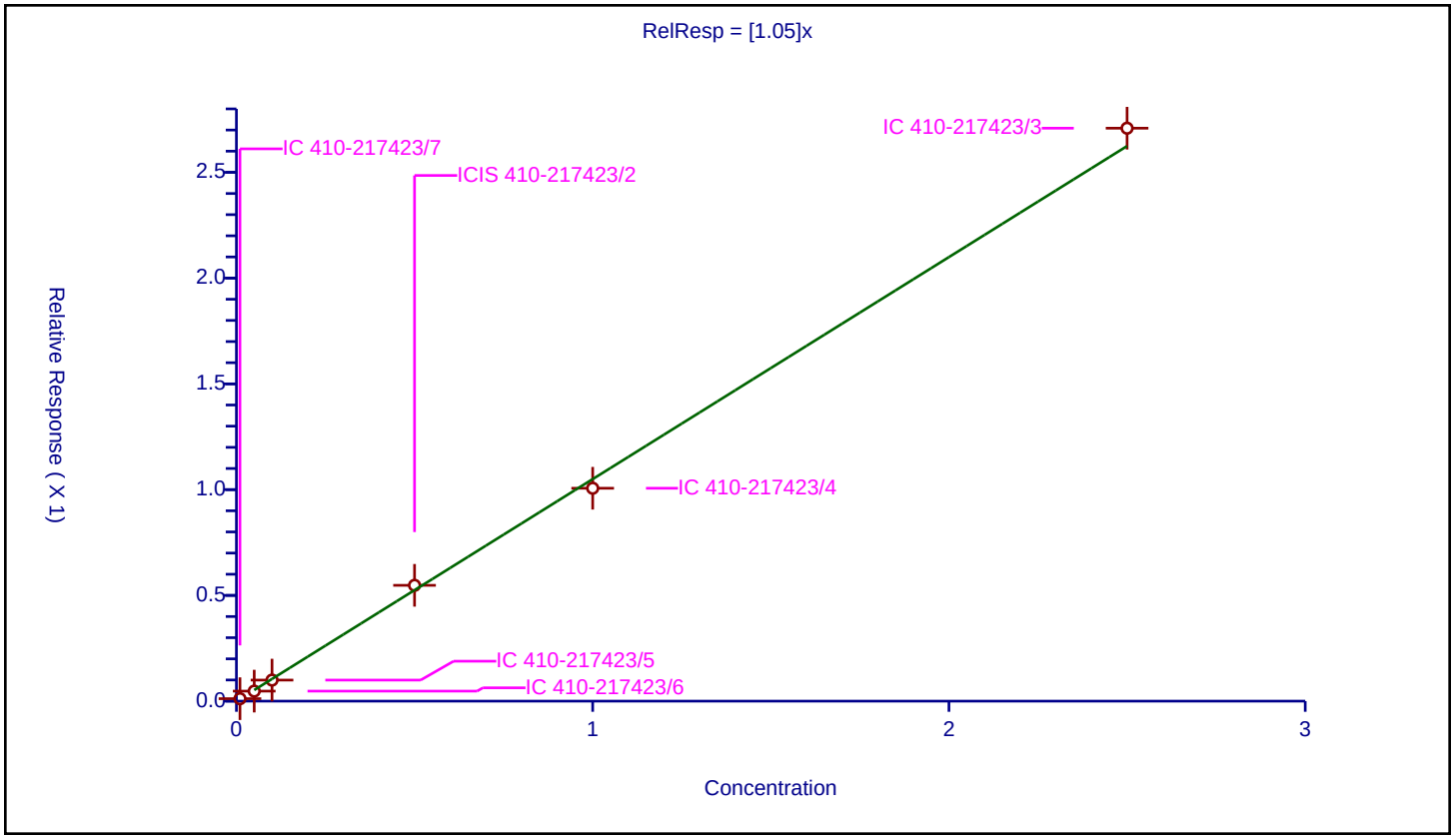
Curve Coefficients

Intercept:	0
Slope:	1.05

Error Coefficients

Standard Error:	2970000
Relative Standard Error:	7.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.011694	0.25	409775.0	1.169422	Y
2	IC 410-217423/6	0.05	0.047403	0.25	466417.0	0.948057	Y
3	IC 410-217423/5	0.1	0.099545	0.25	496295.0	0.995451	Y
4	ICIS 410-217423/2	0.5	0.54751	0.25	533802.0	1.095019	Y
5	IC 410-217423/4	1.0	1.006551	0.25	558082.0	1.006551	Y
6	IC 410-217423/3	2.5	2.708689	0.25	566756.0	1.083476	Y



Calibration / Dibenz(a,h)anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

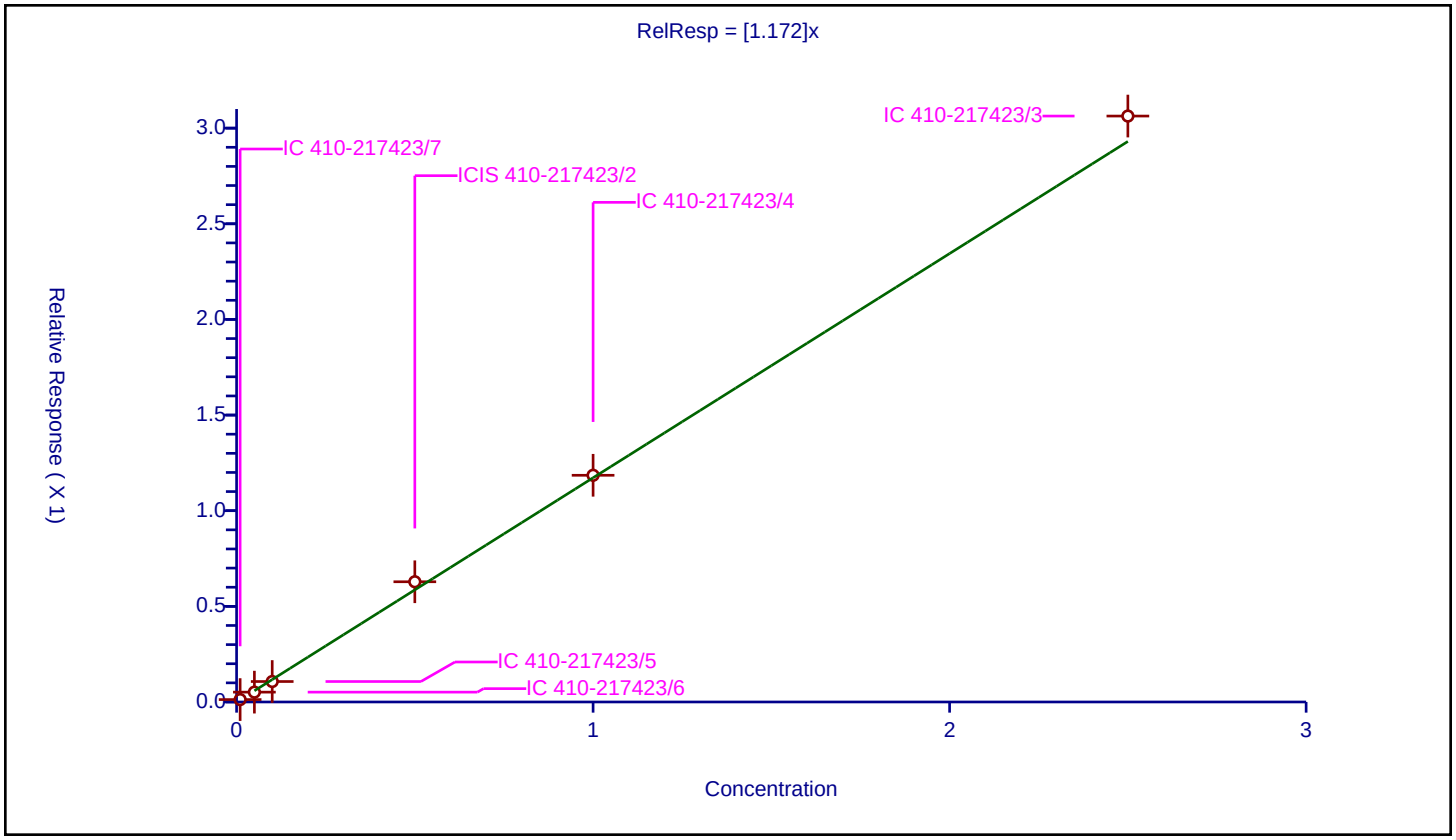
Curve Coefficients

Intercept:	0
Slope:	1.172

Error Coefficients

Standard Error:	3380000
Relative Standard Error:	8.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.012659	0.25	409775.0	1.265878	Y
2	IC 410-217423/6	0.05	0.051498	0.25	466417.0	1.029958	Y
3	IC 410-217423/5	0.1	0.106955	0.25	496295.0	1.06955	Y
4	ICIS 410-217423/2	0.5	0.628574	0.25	533802.0	1.257148	Y
5	IC 410-217423/4	1.0	1.185242	0.25	558082.0	1.185242	Y
6	IC 410-217423/3	2.5	3.063194	0.25	566756.0	1.225278	Y



Calibration / Benzo[g,h,i]perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

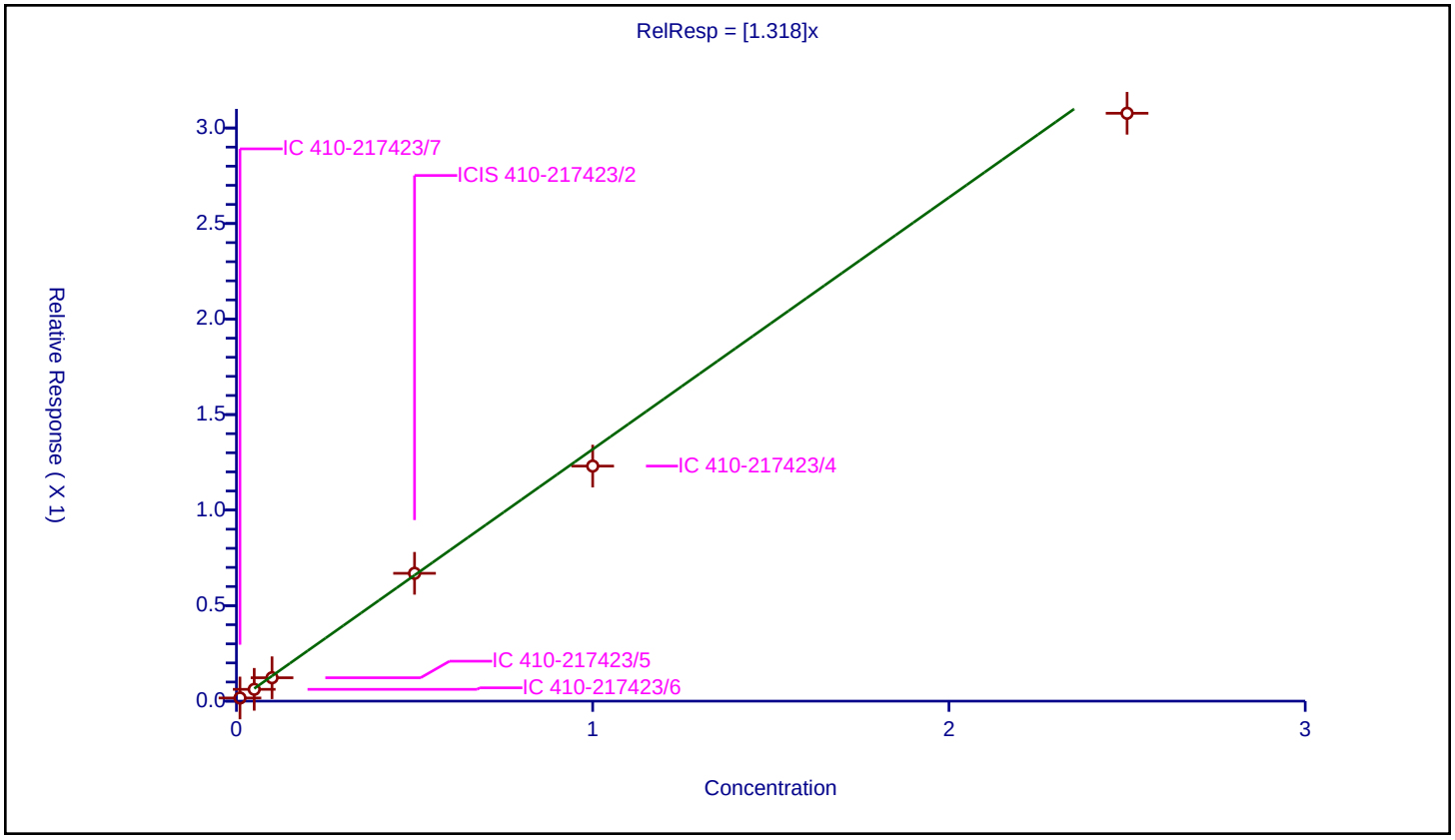
Curve Coefficients

Intercept:	0
Slope:	1.318

Error Coefficients

Standard Error:	3420000
Relative Standard Error:	12.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.016496	0.25	409775.0	1.649625	Y
2	IC 410-217423/6	0.05	0.061768	0.25	466417.0	1.235354	Y
3	IC 410-217423/5	0.1	0.122481	0.25	496295.0	1.224806	Y
4	ICIS 410-217423/2	0.5	0.669033	0.25	533802.0	1.338065	Y
5	IC 410-217423/4	1.0	1.230361	0.25	558082.0	1.230361	Y
6	IC 410-217423/3	2.5	3.077196	0.25	566756.0	1.230878	Y



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-74987-1

SDG No.:

Lab Sample ID (1): ICIS 410-217423/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 01/25/2022 05:48

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.50	16.60

Resolution Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0851.D				
Injection Date:	25-Jan-2022 05:48:39	Instrument ID:	HP21585		
Lims ID:	ICIS L4				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

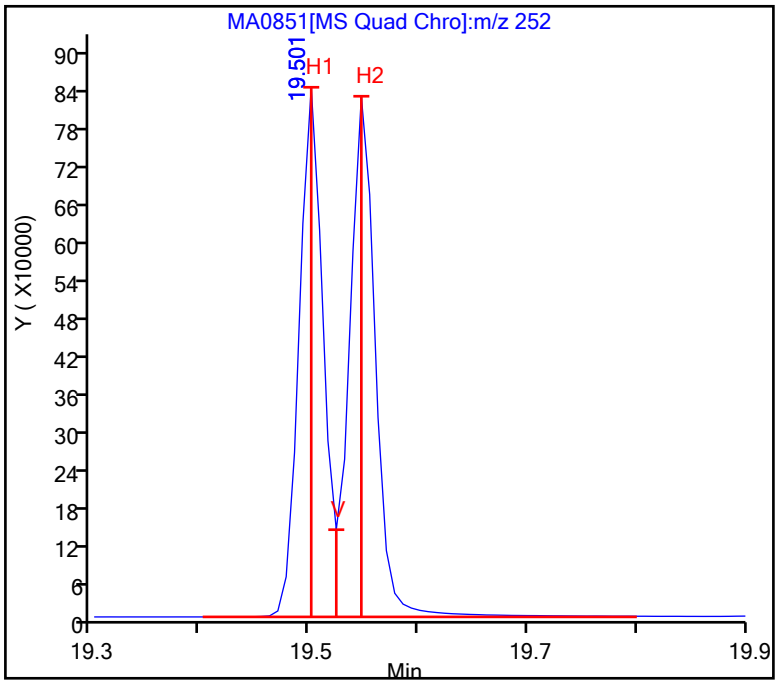
33 Benzo[b]fluoranthene - 34 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 138503
H1(33 Benzo[b]fluoranthen) = 840528
H2(34 Benzo[k]fluoranthen) = 826284

Version D: %R = 16.6 <= 50.0
Passed



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-74987-1

SDG No.:

Lab Sample ID (1): CCVIS 410-231826/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 03/09/2022 18:57

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.32	19.30

Resolution Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0501a.D				
Injection Date:	09-Mar-2022 18:57:36	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

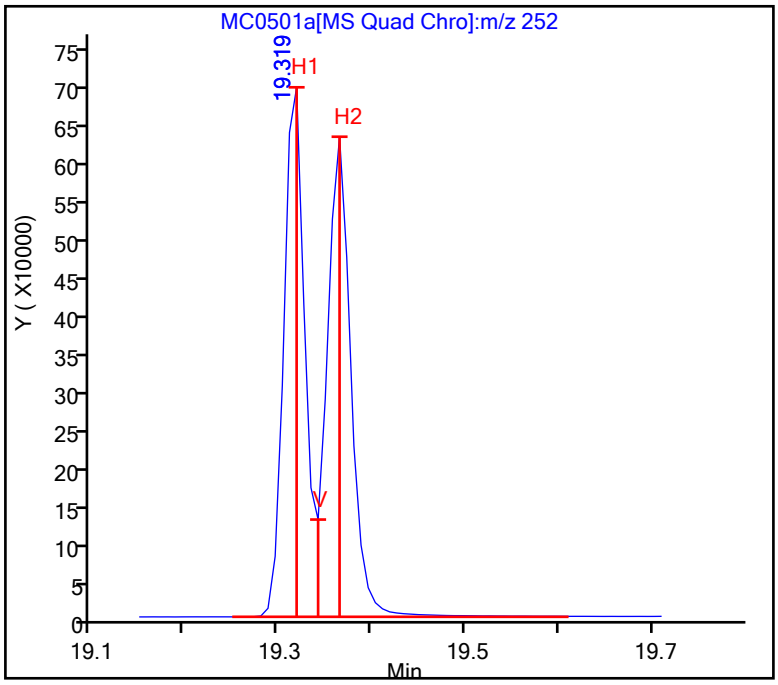
33 Benzo[b]fluoranthene - 34 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 127208
H1(33 Benzo[b]fluoranthen) = 691063
H2(34 Benzo[k]fluoranthen) = 626574

Version D: %R = 19.3 <= 50.0
Passed



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Lab Sample ID: ICV 410-217423/9 Calibration Date: 01/25/2022 09:28

Instrument ID: HP21585 Calib Start Date: 01/25/2022 05:48

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 01/25/2022 08:29

Lab File ID: MA0858.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.7416	0.7182		0.484	0.500	-3.2	30.0
N-Nitrosodimethylamine	Ave	0.7491	0.9603		0.641	0.500	28.2	30.0
Bis(2-chloroethyl)ether	Ave	0.3562	0.4248		0.596	0.500	19.3	30.0
Naphthalene	Ave	1.103	1.098		0.498	0.500	-0.5	30.0
2-Methylnaphthalene	Ave	0.7568	0.7627		0.504	0.500	0.8	30.0
1-Methylnaphthalene	Ave	0.7334	0.7021		0.479	0.500	-4.3	30.0
Dimethylphthalate	Ave	1.246	1.253		0.503	0.500	0.6	30.0
Acenaphthylene	Ave	1.651	1.710		0.518	0.500	3.6	30.0
Acenaphthene	Ave	1.133	1.041		0.460	0.500	-8.1	30.0
Dibenzofuran	Ave	1.731	1.728		0.499	0.500	-0.2	30.0
Diethylphthalate	Ave	1.143	1.111		0.486	0.500	-2.8	30.0
Fluorene	Ave	1.394	1.375		0.493	0.500	-1.3	30.0
N-Nitrosodiphenylamine	Lin2		0.6114		0.612	0.425	43.9*	30.0
Hexachlorobenzene	Ave	0.2580	0.2634		0.511	0.500	2.1	30.0
Phenanthrene	Ave	1.096	1.057		0.482	0.500	-3.5	30.0
Anthracene	Ave	1.017	1.026		0.504	0.500	0.9	30.0
Di-n-butyl phthalate	Ave	0.9093	0.8508		0.468	0.500	-6.4	30.0
Fluoranthene	Ave	1.375	1.289		0.469	0.500	-6.2	30.0
Pyrene	Ave	1.213	1.155		0.476	0.500	-4.8	30.0
Butylbenzylphthalate	Ave	0.3519	0.3135		0.445	0.500	-10.9	30.0
Benzo[a]anthracene	Ave	1.185	1.170		0.494	0.500	-1.3	30.0
Chrysene	Ave	1.367	1.284		0.470	0.500	-6.1	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.4998	0.4342		0.434	0.500	-13.1	30.0
Di-n-octyl phthalate	Ave	0.7251	0.6818		0.470	0.500	-6.0	30.0
Benzo[b]fluoranthene	Ave	1.148	1.194		0.520	0.500	4.0	30.0
Benzo[k]fluoranthene	Ave	1.309	1.356		0.518	0.500	3.6	30.0
Benzo[a]pyrene	Ave	1.114	1.117		0.502	0.500	0.3	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.050	1.172		0.558	0.500	11.6	30.0
Dibenz(a,h)anthracene	Ave	1.172	1.289		0.550	0.500	10.0	30.0
Benzo[g,h,i]perylene	Ave	1.318	1.378		0.523	0.500	4.5	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0858.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 25-Jan-2022 09:28:30 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0048994-009
Operator ID: jmg00346 Instrument ID: HP21585
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 25-Jan-2022 13:51:27 Calib Date: 25-Jan-2022 08:29:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: transuea Date: 25-Jan-2022 13:05:58

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	3.065	3.087	-0.030	97	110088	0.5000	0.4842	
	2 N-Nitrosodimethylamine	74	3.518	3.607	-0.089	93	147192	0.5000	0.6409	
	3 Bis(2-chloroethyl)ether	93	6.643	6.664	-0.021	89	218169	0.5000	0.5963	
*	4 1,4-Dichlorobenzene-d4	152	6.993	6.994	-0.001	95	76642	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.910	8.931	-0.021	95	256774	0.2500	0.2500	
	6 Naphthalene	128	8.951	8.951	-0.001	93	563853	0.5000	0.4976	
	8 2-Methylnaphthalene	142	10.044	10.056	-0.012	97	391674	0.5000	0.5039	
	10 1-Methylnaphthalene	142	10.203	10.203	0.000	96	360584	0.5000	0.4787	
	11 Dimethyl phthalate	163	11.340	11.340	0.000	82	443397	0.5000	0.5029	
	12 Acenaphthylene	152	11.486	11.486	0.000	99	604806	0.5000	0.5179	
*	13 Acenaphthene-d10	164	11.694	11.694	0.000	96	176881	0.2500	0.2500	
	14 Acenaphthene	154	11.743	11.743	0.000	93	368337	0.5000	0.4596	
	15 Dibenzofuran	168	11.981	11.997	-0.016	100	611260	0.5000	0.4990	
	16 Diethyl phthalate	149	12.325	12.332	-0.007	99	392876	0.5000	0.4860	
	17 Fluorene	166	12.426	12.426	0.000	96	486367	0.5000	0.4933	
	18 N-Nitrosodiphenylamine	169	12.590	12.598	-0.008	98	374580	0.4250	0.6118	
	19 Hexachlorobenzene	284	13.082	13.090	-0.008	90	189847	0.5000	0.5105	
*	20 Phenanthrene-d10	188	13.581	13.589	-0.008	98	360391	0.2500	0.2500	
	21 Phenanthrene	178	13.612	13.612	-0.001	100	761805	0.5000	0.4823	
	22 Anthracene	178	13.683	13.691	-0.008	100	739528	0.5000	0.5044	
	23 Di-n-butyl phthalate	149	14.398	14.398	0.000	100	613229	0.5000	0.4678	
	25 Fluoranthene	202	15.275	15.282	-0.007	99	929233	0.5000	0.4688	
	26 Pyrene	202	15.620	15.633	-0.006	97	972652	0.5000	0.4759	
	27 Butyl benzyl phthalate	149	16.745	16.752	0.000	100	264023	0.5000	0.4455	
	28 Benzo[a]anthracene	228	17.635	17.642	0.000	100	985155	0.5000	0.4936	
*	29 Chrysene-d12	240	17.650	17.650	0.000	87	421094	0.2500	0.2500	
	30 Chrysene	228	17.696	17.711	-0.008	100	1081450	0.5000	0.4697	
	31 Bis(2-ethylhexyl) phthalate	149	17.796	17.803	0.000	97	365700	0.5000	0.4344	
	32 Di-n-octyl phthalate	149	18.961	18.961	-0.001	100	635721	0.5000	0.4702	
	33 Benzo[b]fluoranthene	252	19.498	19.506	-0.008	100	1112997	0.5000	0.5198	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Benzo[k]fluoranthene	252	19.544	19.552	-0.008	100	1264603	0.5000	0.5182	
37 Benzo[a]pyrene	252	20.028	20.035	-0.007	100	1041708	0.5000	0.5016	
* 38 Perylene-d12	264	20.127	20.127	0.000	98	466196	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.784	21.805	-0.021	98	1092575	0.5000	0.5582	M
41 Dibenz(a,h)anthracene	278	21.826	21.847	-0.021	96	1201798	0.5000	0.5498	
42 Benzo[g,h,i]perylene	276	22.222	22.243	-0.021	94	1284517	0.5000	0.5226	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_ICV_00029 Amount Added: 1.00 Units: mL

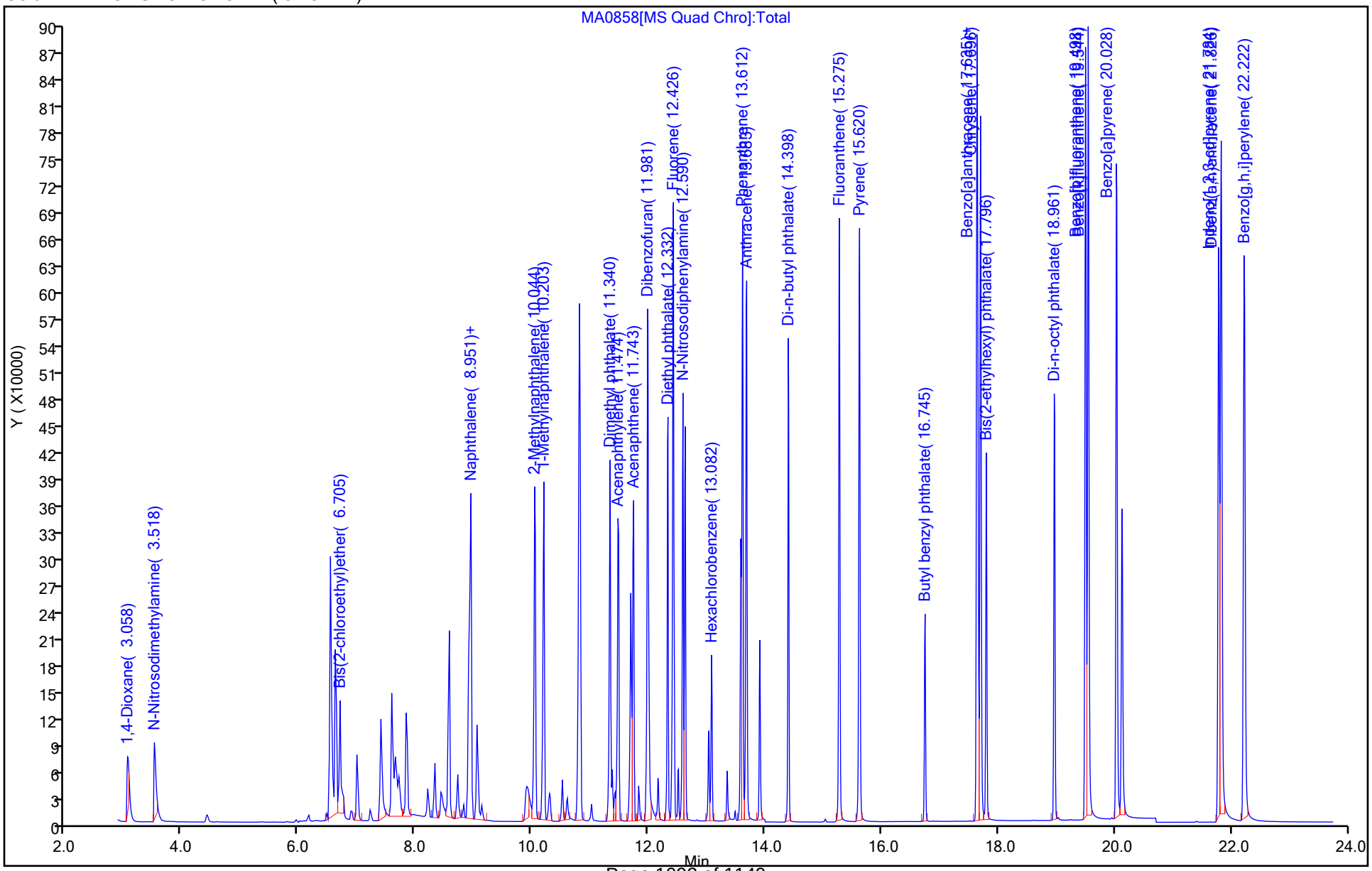
Report Date: 25-Jan-2022 13:51:51 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0858.D

Injection Date:	25-Jan-2022 09:28:30	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	ICV			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

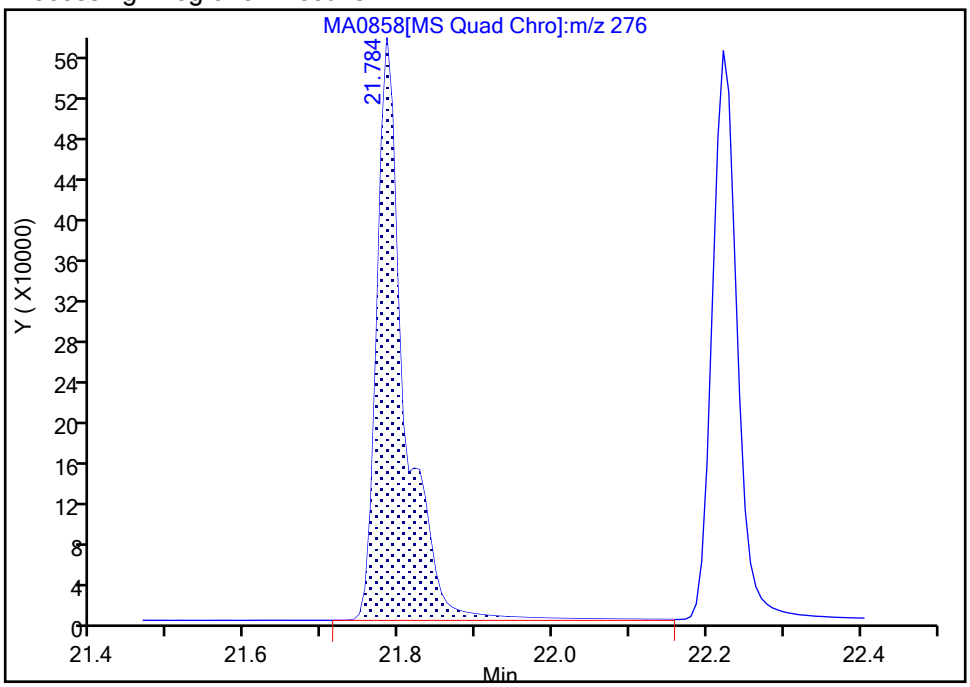
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0858.D				
Injection Date:	25-Jan-2022 09:28:30	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

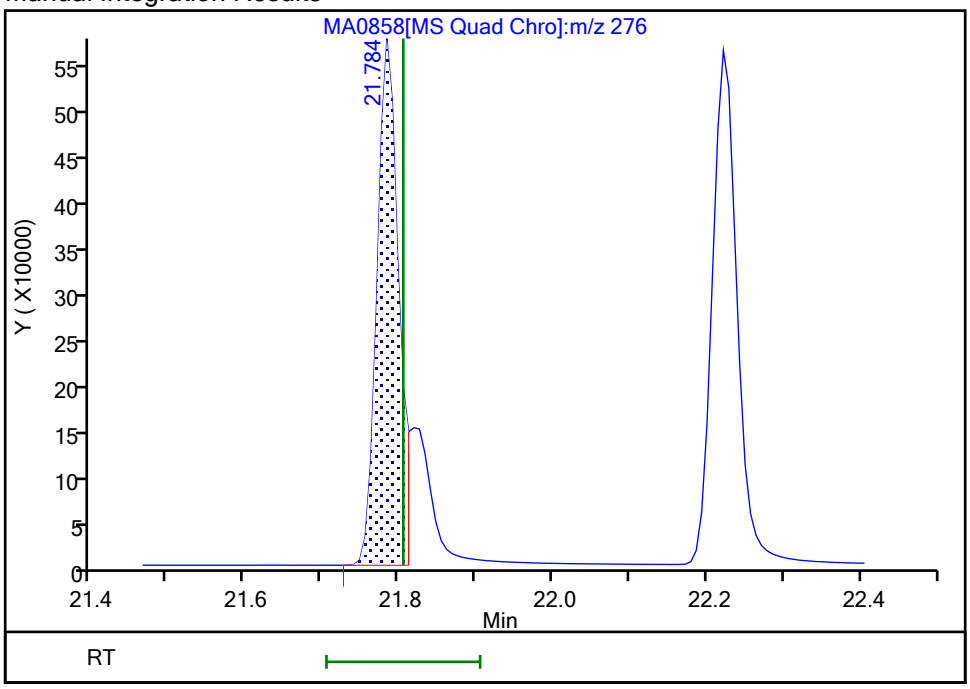
Processing Integration Results

RT: 21.78
Area: 1429202
Amount: 0.730155
Amount Units: ug/ml



Manual Integration Results

RT: 21.78
Area: 1092575
Amount: 0.558178
Amount Units: ug/ml



Reviewer: transuea, 25-Jan-2022 13:05:53

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Lab Sample ID: ICV 410-217423/10 Calibration Date: 01/25/2022 09:58

Instrument ID: HP21585 Calib Start Date: 01/25/2022 05:48

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 01/25/2022 08:29

Lab File ID: MA0859.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1-Methylnaphthalene-d10 (Surr)	Ave	0.6448	0.6666		0.207	0.200	3.4	30.0
Fluoranthene-d10 (Surr)	Ave	1.253	1.225		0.196	0.200	-2.2	30.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.8695	0.8919		0.205	0.200	2.6	30.0

Report Date: 25-Jan-2022 16:10:06 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0859.D
Lims ID: ICV SS
Client ID:
Sample Type: ICV
Inject. Date: 25-Jan-2022 09:58:13 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV SS
Misc. Info.: 410-0048994-010
Operator ID: jmg00346 Instrument ID: HP21585
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 25-Jan-2022 13:50:20 Calib Date: 25-Jan-2022 08:29:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: transuea Date: 25-Jan-2022 16:10:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.034	6.994	0.040	85	74362	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.931	8.931	0.000	92	256186	0.2500	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.154	10.130	0.000	100	136614	0.2000	0.2068	
* 13 Acenaphthene-d10	164	11.694	11.694	0.000	92	173410	0.2500	0.2500	
* 20 Phenanthrene-d10	188	13.589	13.589	0.000	96	355226	0.2500	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.245	15.256	-0.012	97	348134	0.2000	0.1956	
* 29 Chrysene-d12	240	17.653	17.650	0.003	55	416503	0.2500	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.992	19.992	-0.005	98	333419	0.2000	0.2052	
* 38 Perylene-d12	264	20.122	20.127	-0.005	98	467293	0.2500	0.2500	

QC Flag Legend
Processing Flags

Reagents:
MSS_RVSIM_ICV_00027 Amount Added: 1.00 Units: mL

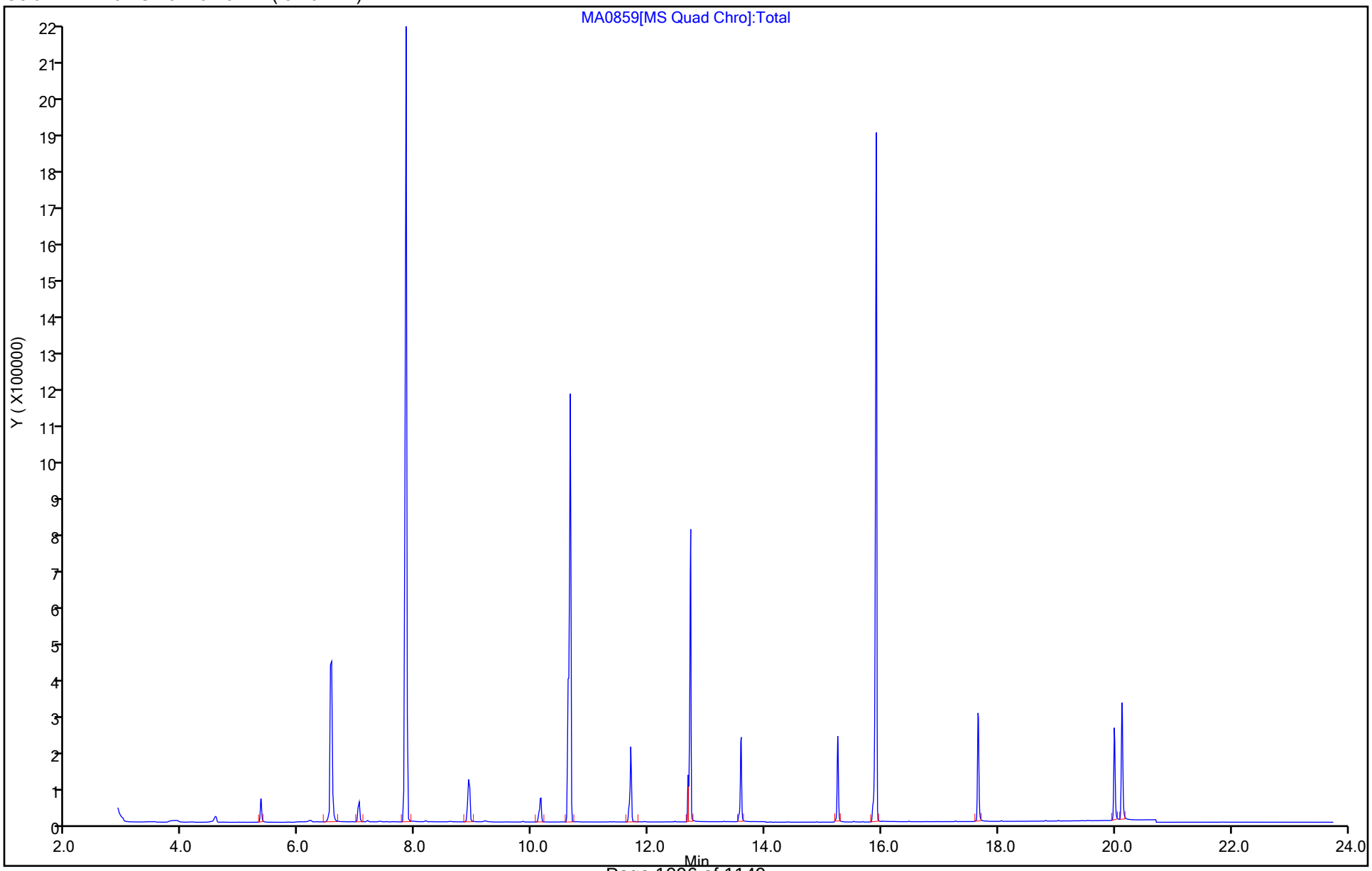
Report Date: 25-Jan-2022 16:10:06 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0859.D

Injection Date:	25-Jan-2022 09:58:13	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	ICV SS			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Lab Sample ID: CCVIS 410-231826/2 Calibration Date: 03/09/2022 18:57

Instrument ID: HP21585 Calib Start Date: 01/25/2022 05:48

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 01/25/2022 08:29

Lab File ID: MC0501a.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.7416	0.8037		0.542	0.500	8.4	20.0
N-Nitrosodimethylamine	Ave	0.7491	1.039		0.693	0.500	38.7*	20.0
Bis(2-chloroethyl)ether	Ave	0.3562	0.4273		0.600	0.500	20.0	20.0
Naphthalene	Ave	1.103	1.029		0.466	0.500	-6.8	20.0
Quinoline	Ave	0.5381	0.5292		0.492	0.500	-1.7	20.0
2-Methylnaphthalene	Ave	0.7568	0.7198		0.476	0.500	-4.9	20.0
1-Methylnaphthalene	Ave	0.7334	0.6764		0.461	0.500	-7.8	20.0
Dimethylphthalate	Ave	1.246	1.297		2.60	2.50	4.1	20.0
Acenaphthylene	Ave	1.651	1.625		0.492	0.500	-1.6	20.0
Acenaphthene	Ave	1.133	1.106		0.488	0.500	-2.4	20.0
Dibenzofuran	Ave	1.731	1.761		0.509	0.500	1.7	20.0
Diethylphthalate	Ave	1.143	1.172		2.56	2.50	2.5	20.0
Fluorene	Ave	1.394	1.395		0.500	0.500	0.0	20.0
N-Nitrosodiphenylamine	Lin2		0.4292		0.504	0.500	0.7	20.0
Hexachlorobenzene	Ave	0.2580	0.2690		0.521	0.500	4.3	20.0
Phenanthrene	Ave	1.096	1.049		0.479	0.500	-4.3	20.0
Anthracene	Ave	1.017	1.016		0.499	0.500	-0.1	20.0
Di-n-butyl phthalate	Ave	0.9093	0.9299		2.56	2.50	2.3	20.0
Fluoranthene	Ave	1.375	1.368		0.497	0.500	-0.5	20.0
Pyrene	Ave	1.213	1.161		0.478	0.500	-4.4	20.0
Butylbenzylphthalate	Ave	0.3519	0.3573		2.54	2.50	1.6	20.0
Benzo[a]anthracene	Ave	1.185	1.218		0.514	0.500	2.8	20.0
Chrysene	Ave	1.367	1.344		0.492	0.500	-1.7	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.4998	0.5291		2.65	2.50	5.9	20.0
Di-n-octyl phthalate	Ave	0.7251	0.7736		2.67	2.50	6.7	20.0
Benzo[b]fluoranthene	Ave	1.148	1.241		0.540	0.500	8.1	20.0
Benzo[k]fluoranthene	Ave	1.309	1.264		0.483	0.500	-3.4	20.0
Benzo[e]pyrene	Ave	1.145	1.173		0.512	0.500	2.5	20.0
Benzo[a]pyrene	Ave	1.114	1.167		0.524	0.500	4.7	20.0
Perylene	Ave	1.183	1.209		0.511	0.500	2.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.050	1.177		0.561	0.500	12.2	20.0
Dibenz(a,h)anthracene	Ave	1.172	1.440		0.614	0.500	22.9*	20.0
Benzo[g,h,i]perylene	Ave	1.318	1.440		0.546	0.500	9.3	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.6448	0.6084		0.472	0.500	-5.6	20.0
Fluoranthene-d10 (Surr)	Ave	1.253	1.223		0.488	0.500	-2.3	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.8695	0.9384		0.540	0.500	7.9	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0501a.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 09-Mar-2022 18:57:36 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0052091-002, 4
Operator ID: kel10217 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Mar-2022 20:19:09 Calib Date: 25-Jan-2022 08:29:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: luttek Date: 09-Mar-2022 19:33:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.747	2.747	0.000	100	73283	0.5000	0.5419	
2 N-Nitrosodimethylamine	74	3.251	3.251	0.000	99	94730	0.5000	0.6934	
3 Bis(2-chloroethyl)ether	93	6.458	6.458	0.000	72	140420	0.5000	0.5998	
* 4 1,4-Dichlorobenzene-d4	152	6.829	6.829	0.000	88	45592	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.746	8.746	0.000	92	164296	0.2500	0.2500	
6 Naphthalene	128	8.787	8.787	0.000	93	337969	0.5000	0.4662	
7 Quinoline	129	9.360	9.360	0.000	84	173883	0.5000	0.4917	
8 2-Methylnaphthalene	142	9.886	9.886	0.000	97	236513	0.5000	0.4755	
$ 9 1-Methylnaphthalene-d10	152	9.971	9.971	0.000	100	199907	0.5000	0.4718	
10 1-Methylnaphthalene	142	10.032	10.032	0.000	97	222276	0.5000	0.4612	
11 Dimethyl phthalate	163	11.181	11.181	0.000	96	1820434	2.50	2.60	
12 Acenaphthylene	152	11.316	11.316	0.000	99	456160	0.5000	0.4922	
* 13 Acenaphthene-d10	164	11.536	11.536	0.000	92	140381	0.2500	0.2500	
14 Acenaphthene	154	11.585	11.585	0.000	93	310422	0.5000	0.4881	
15 Dibenzofuran	168	11.852	11.852	0.000	100	494471	0.5000	0.5086	
16 Diethyl phthalate	149	12.211	12.211	0.000	99	1644746	2.50	2.56	
17 Fluorene	166	12.305	12.305	0.000	96	391553	0.5000	0.5004	
18 N-Nitrosodiphenylamine	169	12.492	12.492	0.000	98	249834	0.5000	0.5036	
19 Hexachlorobenzene	284	12.952	12.952	0.000	91	156554	0.5000	0.5213	
* 20 Phenanthrene-d10	188	13.452	13.452	0.000	98	291040	0.2500	0.2500	
21 Phenanthrene	178	13.475	13.475	0.000	100	610470	0.5000	0.4786	
22 Anthracene	178	13.546	13.546	0.000	100	591298	0.5000	0.4994	
23 Di-n-butyl phthalate	149	14.251	14.251	0.000	100	2706307	2.50	2.56	
$ 24 Fluoranthene-d10 (Surr)	212	15.084	15.084	0.000	96	712016	0.5000	0.4883	
25 Fluoranthene	202	15.116	15.116	0.000	99	796144	0.5000	0.4974	
26 Pyrene	202	15.454	15.454	0.000	97	832977	0.5000	0.4782	
27 Butyl benzyl phthalate	149	16.558	16.558	0.000	100	1282387	2.50	2.54	
28 Benzo[a]anthracene	228	17.455	17.455	0.000	100	874215	0.5000	0.5140	
* 29 Chrysene-d12	240	17.471	17.471	0.000	89	358868	0.2500	0.2500	
30 Chrysene	228	17.517	17.517	0.000	100	964678	0.5000	0.4917	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.593	17.593	0.000	99	1898849	2.50	2.65	
32 Di-n-octyl phthalate	149	18.759	18.759	0.000	100	3385599	2.50	2.67	
33 Benzo[b]fluoranthene	252	19.319	19.319	0.000	100	1086170	0.5000	0.5403	
34 Benzo[k]fluoranthene	252	19.365	19.365	0.000	100	1106117	0.5000	0.4828	
35 Benzo[e]pyrene	252	19.764	19.764	0.000	100	1026611	0.5000	0.5123	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.810	19.810	0.000	97	821373	0.5000	0.5396	
37 Benzo[a]pyrene	252	19.848	19.848	0.000	100	1021089	0.5000	0.5237	
* 38 Perylene-d12	264	19.940	19.940	0.000	97	437666	0.2500	0.2500	
39 Perylene	252	19.986	19.986	0.000	100	1058304	0.5000	0.5109	
40 Indeno[1,2,3-cd]pyrene	276	21.583	21.583	0.000	98	1030456	0.5000	0.5608	M
41 Dibenz(a,h)anthracene	278	21.618	21.618	0.000	95	1260871	0.5000	0.6144	
42 Benzo[g,h,i]perylene	276	22.007	22.007	0.000	93	1260831	0.5000	0.5464	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00019 Amount Added: 1.00 Units: mL

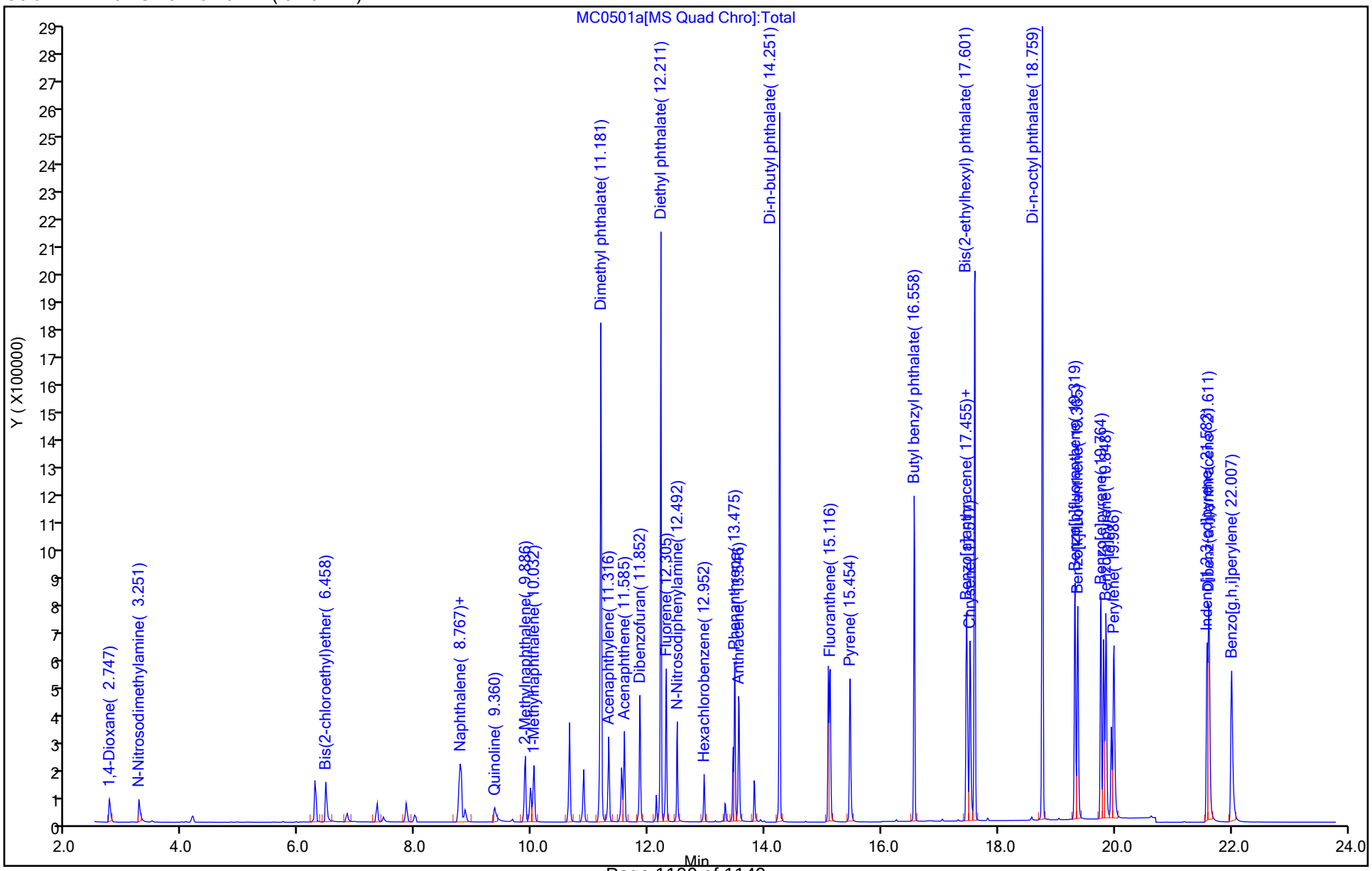
Report Date: 09-Mar-2022 20:19:10 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0501a.D

Injection Date:	09-Mar-2022 18:57:36	Instrument ID:	HP21585	Operator ID:	kel10217
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

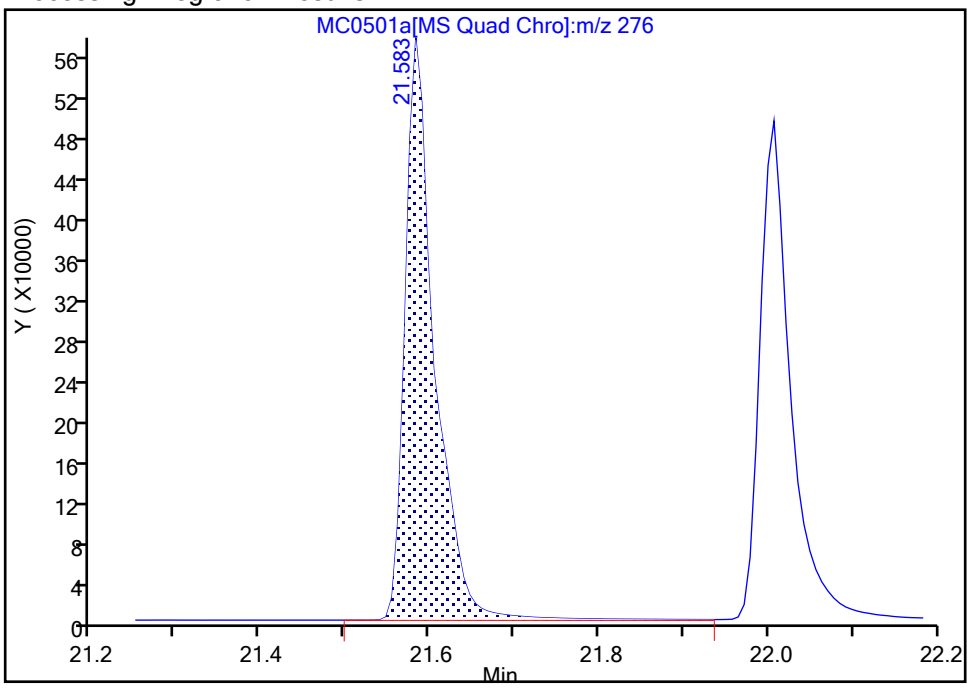
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0501a.D				
Injection Date:	09-Mar-2022 18:57:36	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

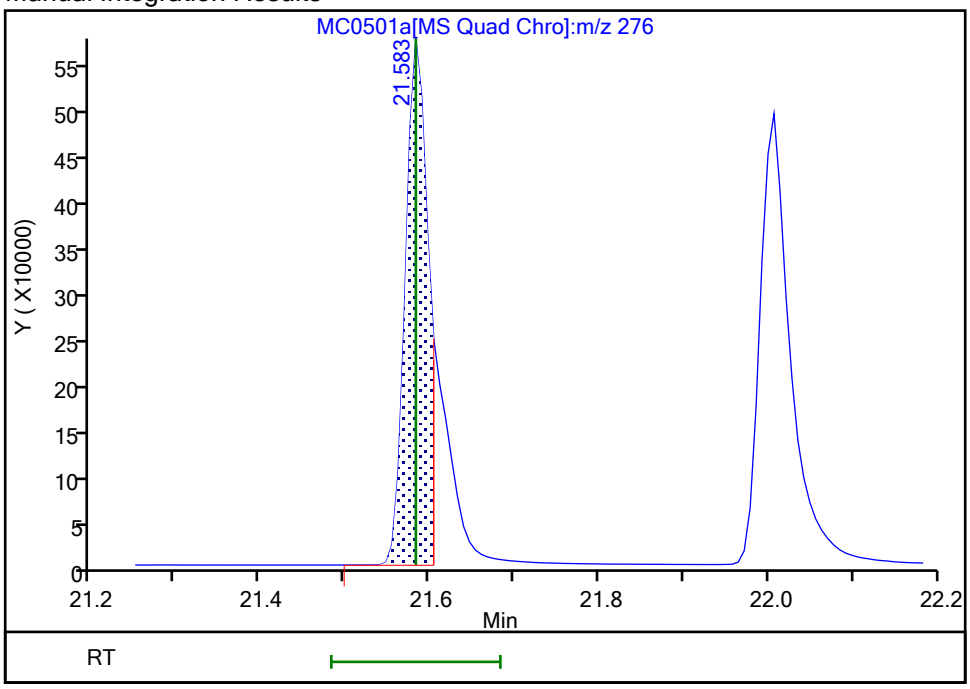
Processing Integration Results

RT: 21.58
Area: 1392210
Amount: 0.757621
Amount Units: ug/ml



Manual Integration Results

RT: 21.58
Area: 1030456
Amount: 0.560760
Amount Units: ug/ml



Reviewer: luttek, 09-Mar-2022 19:28:22
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0850.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 25-Jan-2022 05:27:15 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0048994-001
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 25-Jan-2022 13:17:14 Calib Date: 25-Jan-2022 08:29:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: gamblerj Date: 25-Jan-2022 06:25:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.831	4.831	0.000	0	4692028	NR	NR	
45 DFTPP									
46 Benzidine_T	184	6.084	6.084	0.000	0	9512919	NR	NR	
47 4,4'-DDE	246	6.227	6.227	0.000	0	19241		NR	
48 4,4'-DDD	235	6.513	6.513	0.000	0	117745		NR	
49 4,4'-DDT	235	6.765	6.765	0.000	0	7567563	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

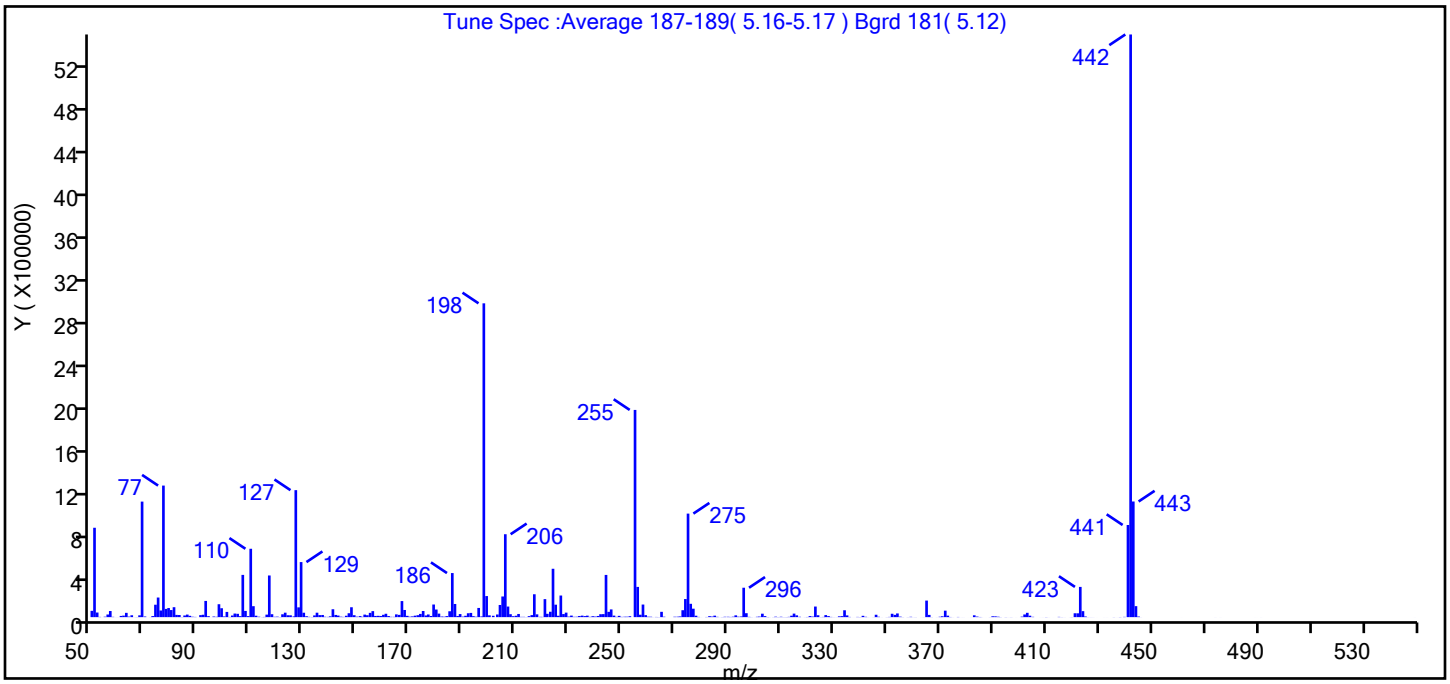
MSS_RVDFTPP_00009 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0850.D
Injection Date: 25-Jan-2022 05:27:15 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (53.9)
51	10-80% of the base peak	28.5
68	<2% of mass 69	0.6 (1.6)
69	Present	36.8
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	40.5
197	<2% of mass 198	0.2
199	5-9% of mass 198	6.7
275	10-60% of the base peak	33.0
365	>1% of mass 198	5.3
441	present but <24% of mass 442	29.4 (15.8)
442	base peak, or >50% of 198	185.7
443	15-24% of mass 442	36.9 (19.8)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0850.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 25-Jan-2022 05:27:15
Spectrum: Tune Spec :Average 187-189(5.16-5.17) Bgrd 181(5.12)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 380

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	59176	146.00	13065	242.00	27536	342.00	3316
51.00	839680	147.00	36720	243.00	28456	343.00	496
52.00	43320	148.00	92944	244.00	396544	344.00	179
53.00	2215	149.00	18104	245.00	49848	345.00	709
54.00	201	150.00	4603	246.00	72600	346.00	22472
55.00	4245	151.00	9555	247.00	14252	347.00	3761
56.00	24760	152.00	3186	248.00	2834	348.00	305
57.00	57456	153.00	23768	249.00	12048	350.00	772
58.00	2956	154.00	17928	250.00	2461	351.00	2250
59.00	313	155.00	40272	251.00	3830	352.00	31856
60.00	380	156.00	56440	252.00	4041	353.00	21576
61.00	11468	157.00	11216	253.00	8574	354.00	34744
62.00	14333	158.00	12504	255.00	1946624	355.00	4646
63.00	40312	159.00	11063	256.00	284032	356.00	840
64.00	5238	160.00	22104	257.00	22736	358.00	801
65.00	17528	161.00	31744	258.00	118392	359.00	3152
66.00	507	162.00	10285	259.00	18744	360.00	439
67.00	1008	163.00	3093	260.00	4053	361.00	741
68.00	16960	164.00	2888	261.00	3747	363.00	285
69.00	1085440	165.00	25976	262.00	592	364.00	558
70.00	5947	166.00	21304	263.00	1859	365.00	155584
72.00	565	167.00	150912	264.00	1220	366.00	21152
73.00	10084	168.00	67376	265.00	50032	367.00	899
74.00	116712	169.00	12262	266.00	4010	369.00	363
75.00	184256	170.00	4245	270.00	3755	370.00	3797
76.00	62592	171.00	7154	271.00	4214	371.00	7776
77.00	1235968	172.00	13839	272.00	6313	372.00	60824
78.00	77416	173.00	18272	273.00	65176	373.00	13878
79.00	85488	174.00	30336	274.00	169984	374.00	1657
80.00	66576	175.00	57640	275.00	972672	375.00	338
81.00	93392	176.00	15648	276.00	125224	377.00	1813
82.00	21120	177.00	25016	277.00	79448	378.00	223
83.00	19952	178.00	10948	278.00	13318	379.00	253

Report Date: 25-Jan-2022 13:17:14 Chrom Revision: 2.3 18-Jan-2022 20:25:40
Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0850.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 25-Jan-2022 05:27:15
Spectrum: Tune Spec :Average 187-189(5.16-5.17) Bgrd 181(5.12)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 380

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	1389	179.00	118712	279.00	2230	381.00	116
85.00	15587	180.00	71424	280.00	304	382.00	298
86.00	24024	181.00	33112	282.00	1665	383.00	17280
87.00	12463	182.00	5554	283.00	9148	384.00	5291
88.00	3951	183.00	4206	284.00	5541	385.00	1574
89.00	2114	184.00	9708	285.00	13938	386.00	333
90.00	98	185.00	55248	286.00	3112	387.00	74
91.00	18888	186.00	414144	287.00	428	389.00	622
92.00	22336	187.00	123600	288.00	1079	390.00	8050
93.00	152320	188.00	11179	289.00	3424	391.00	7261
94.00	8991	189.00	28928	290.00	3352	392.00	4054
95.00	252	190.00	4853	291.00	1991	393.00	968
96.00	5855	191.00	12836	292.00	4151	395.00	944
97.00	3288	192.00	36504	293.00	16872	396.00	276
98.00	121352	193.00	39800	294.00	4339	397.00	696
99.00	83744	194.00	8881	295.00	6186	398.00	67
100.00	6560	195.00	4061	296.00	276352	399.00	170
101.00	49072	196.00	86408	297.00	37056	400.00	148
102.00	2053	197.00	6577	298.00	2569	401.00	4756
103.00	15055	198.00	2948096	299.00	805	402.00	25136
104.00	33712	199.00	198016	300.00	308	403.00	40712
105.00	31376	200.00	17024	301.00	3311	404.00	13472
106.00	9008	201.00	12821	302.00	5156	405.00	2912
107.00	396928	203.00	24888	303.00	32392	408.00	156
108.00	58288	204.00	114280	304.00	9562	409.00	224
109.00	9908	205.00	194048	305.00	1448	410.00	1126
110.00	642304	206.00	778944	306.00	422	411.00	262
111.00	102952	207.00	99512	307.00	824	413.00	73
112.00	13303	208.00	27704	308.00	4273	415.00	2363
113.00	4021	209.00	8747	309.00	1428	416.00	753
114.00	1042	210.00	13196	310.00	3605	417.00	316
115.00	2083	211.00	29832	311.00	1050	419.00	300
116.00	23664	212.00	2677	312.00	1319	420.00	872
117.00	391424	213.00	2739	313.00	2714	421.00	36408

Report Date: 25-Jan-2022 13:17:14 Chrom Revision: 2.3 18-Jan-2022 20:25:40
Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0850.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 25-Jan-2022 05:27:15
Spectrum: Tune Spec :Average 187-189(5.16-5.17) Bgrd 181(5.12)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 380

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	27504	214.00	1029	314.00	13501	422.00	35944
119.00	3330	215.00	9410	315.00	33192	423.00	284096
120.00	4700	216.00	19048	316.00	16744	424.00	56328
121.00	1407	217.00	214976	317.00	3410	425.00	6058
122.00	26760	218.00	26208	318.00	171	426.00	643
123.00	41944	219.00	2890	319.00	561	427.00	407
124.00	17728	220.00	2253	320.00	1560	428.00	314
125.00	17072	221.00	169216	321.00	9914	429.00	110
126.00	6809	222.00	31400	322.00	5163	432.00	162
127.00	1192960	223.00	50664	323.00	99584	433.00	154
128.00	91928	224.00	454464	324.00	17624	436.00	330
129.00	517248	225.00	117072	325.00	1086	436.00	445
130.00	41456	226.00	12960	326.00	2310	437.00	199
131.00	8616	227.00	203072	327.00	19296	438.00	1166
132.00	2847	228.00	28992	328.00	9817	440.00	2471
133.00	1405	229.00	42392	329.00	2162	441.00	865664
134.00	16194	230.00	5045	330.00	649	442.00	5473792
135.00	41696	231.00	14466	331.00	532	443.00	1086464
136.00	19072	232.00	3205	332.00	7574	444.00	103312
137.00	20336	233.00	3794	333.00	9276	445.00	5731
138.00	3607	234.00	10900	334.00	64608	446.00	441
139.00	2344	235.00	14162	335.00	16277	461.00	107
140.00	7312	236.00	9723	336.00	2012	474.00	222
141.00	74192	237.00	13895	337.00	159	476.00	178
142.00	20664	238.00	2924	338.00	193	489.00	117
143.00	14755	239.00	8664	339.00	2188	490.00	60
144.00	4278	240.00	5487	340.00	1314	491.00	172
145.00	2262	241.00	11057	341.00	12430	549.00	124

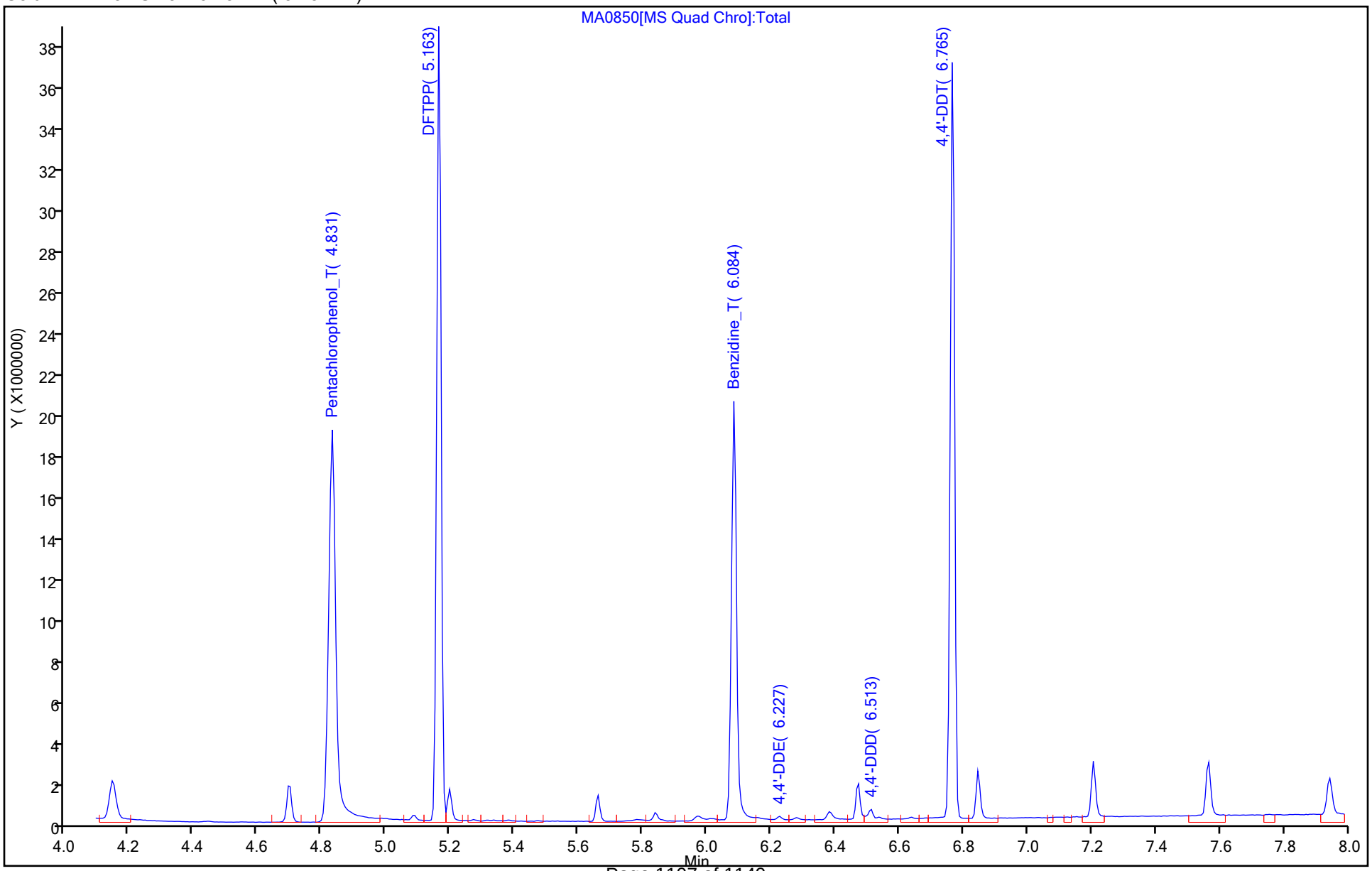
Report Date: 25-Jan-2022 13:17:14 Chrom Revision: 2.3 18-Jan-2022 20:25:40

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0850.D

Injection Date:	25-Jan-2022 05:27:15	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0850.D
Injection Date: 25-Jan-2022 05:27:15 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

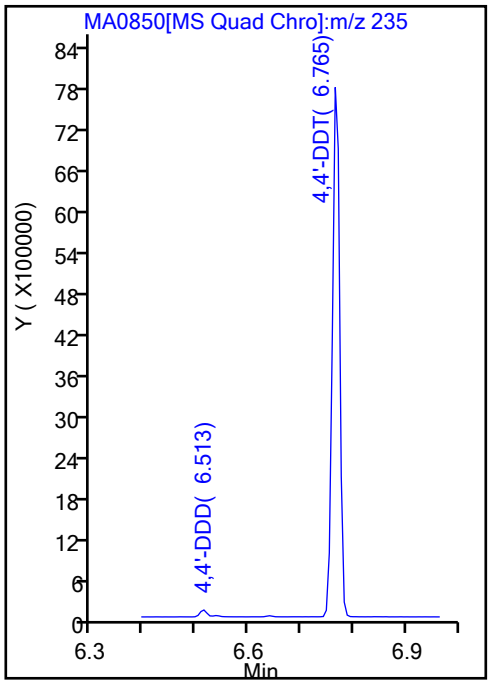
49 4,4'-DDT, Detector: MS Quad

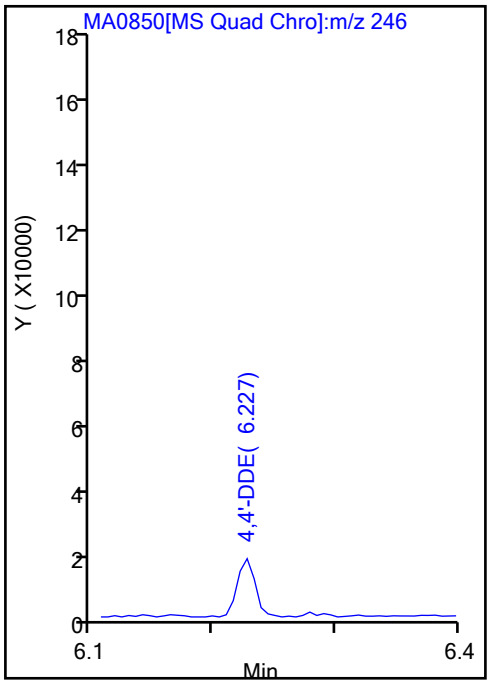
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 7567563
47 4,4'-DDE, Area = 19241
48 4,4'-DDD, Area = 117745

%Breakdown: 1.78%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

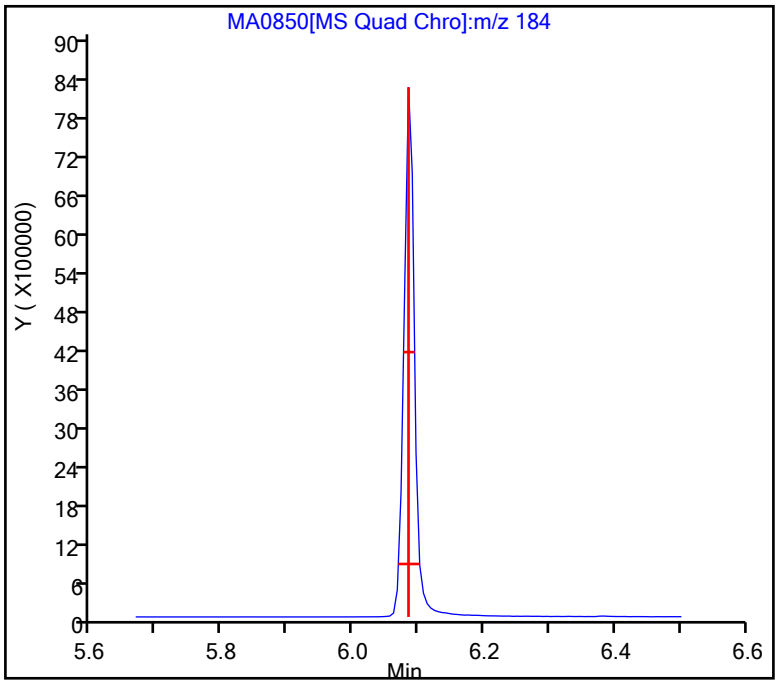
Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0850.D
Injection Date: 25-Jan-2022 05:27:15 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 1.06, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

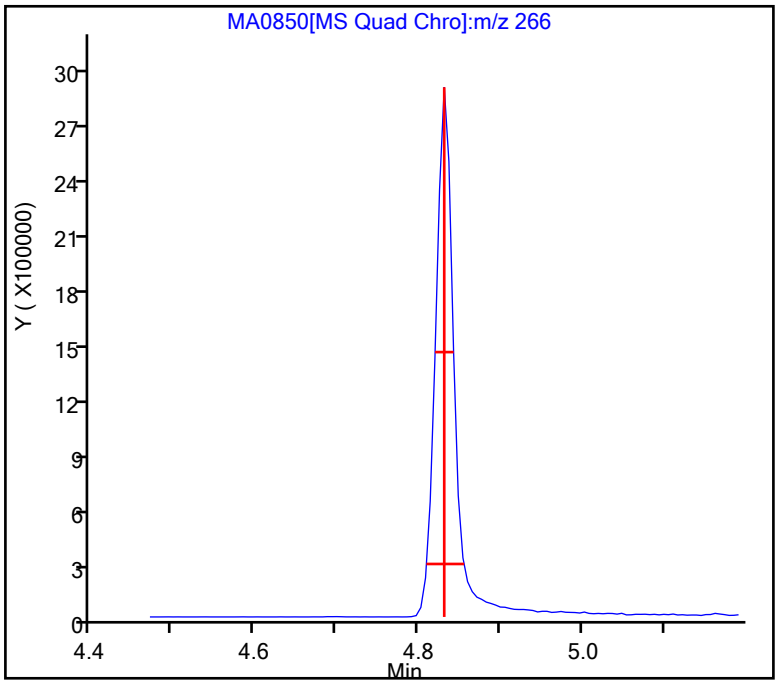
Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0850.D
Injection Date: 25-Jan-2022 05:27:15 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.024 (min.)
Front Width = 0.022 (min.)

Tailing Factor = 1.09, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0500a.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 09-Mar-2022 18:40:05 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0052091-001
Operator ID: kel10217 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 10-Mar-2022 05:11:10 Calib Date: 25-Jan-2022 08:29:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: gamblerj Date: 10-Mar-2022 05:11:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.717	4.717	0.000	0	1308413	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.935	5.935	0.000	0	3707903	NR	NR	
48 4,4'-DDD	235	6.353	6.353	0.000	0	159033		NR	
49 4,4'-DDT	235	6.513	6.513	0.000	0	3015815	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

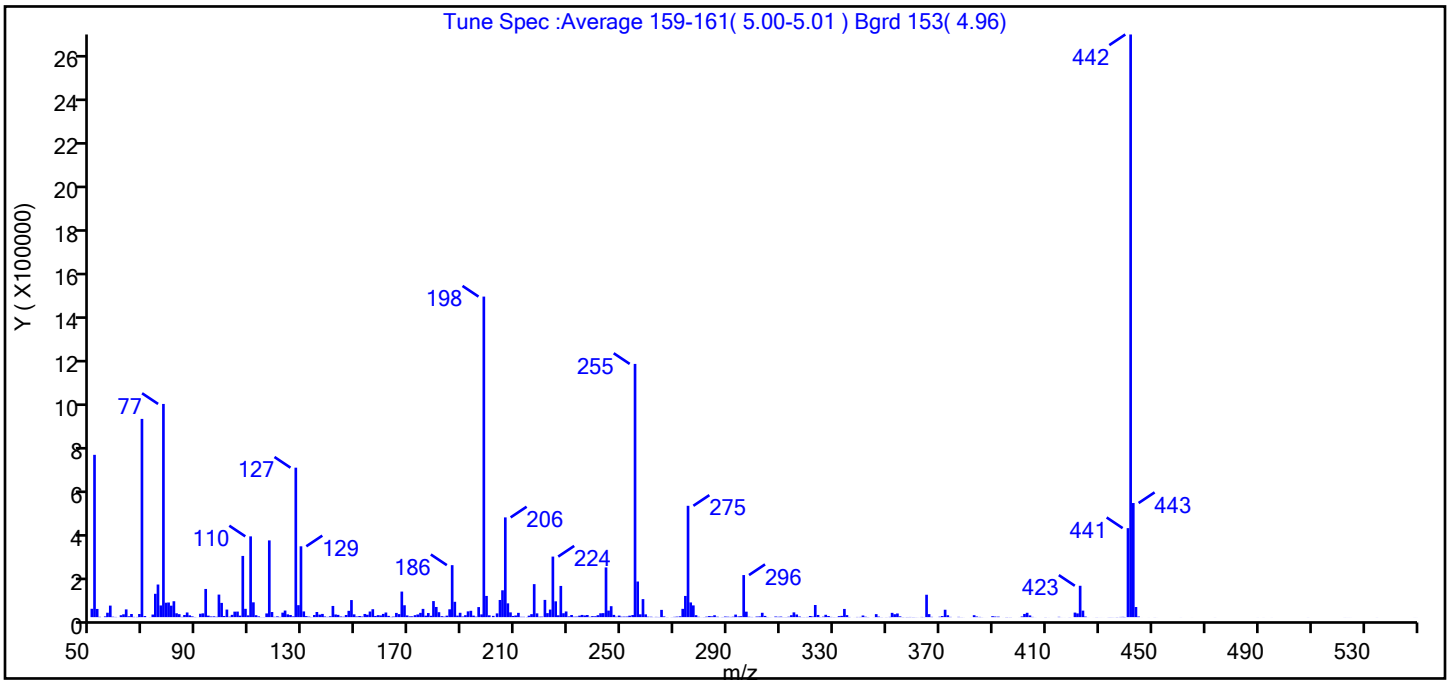
MSS_RVDFTPP_00009 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0500a.D
Injection Date: 09-Mar-2022 18:40:05 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (55.0)
51	10-80% of the base peak	50.6
68	<2% of mass 69	1.0 (1.6)
69	Present	61.8
70	<2% of mass 69	0.3 (0.6)
127	10-80% of the base peak	46.6
197	<2% of mass 198	0.9
199	5-9% of mass 198	6.6
275	10-60% of the base peak	34.7
365	>1% of mass 198	7.0
441	present but <24% of mass 442	27.8 (15.3)
442	base peak, or >50% of 198	181.8
443	15-24% of mass 442	35.6 (19.6)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0500a.D\8270_SIM_HP21585.rslt\spect
Injection Date: 09-Mar-2022 18:40:05
Spectrum: Tune Spec :Average 159-161(5.00-5.01) Bgrd 153(4.96)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 397

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	37600	151.00	5039	252.00	2523	354.00	16496
51.00	729536	152.00	2708	253.00	6588	355.00	3564
52.00	36832	153.00	14270	254.00	9479	356.00	600
53.00	1445	154.00	10805	255.00	1138176	357.00	351
55.00	3382	155.00	25288	256.00	160128	358.00	691
56.00	19864	156.00	35656	257.00	12777	359.00	833
57.00	51848	157.00	5425	258.00	81072	360.00	647
58.00	1920	158.00	8945	259.00	12578	361.00	357
59.00	933	159.00	7639	260.00	2080	362.00	196
60.00	178	160.00	14520	261.00	1744	363.00	902
61.00	8656	161.00	20856	262.00	290	364.00	484
62.00	12684	162.00	5763	263.00	1206	365.00	100688
63.00	34864	163.00	1247	264.00	840	366.00	13571
64.00	3793	164.00	2479	265.00	32656	367.00	1345
65.00	14145	165.00	19000	266.00	3269	369.00	86
66.00	1120	166.00	13581	267.00	480	370.00	1974
67.00	973	167.00	114896	269.00	445	371.00	4777
68.00	14081	168.00	53368	270.00	1378	372.00	33288
69.00	891008	169.00	7845	271.00	2309	373.00	8469
70.00	4909	170.00	3406	272.00	3694	374.00	1128
71.00	11	171.00	3687	273.00	37328	377.00	1249
72.00	357	172.00	8855	274.00	95256	378.00	406
73.00	11650	173.00	12050	275.00	500480	379.00	188
74.00	104888	174.00	19248	276.00	66088	382.00	155
75.00	146624	175.00	37112	277.00	52776	383.00	8760
76.00	52496	176.00	6636	278.00	8773	384.00	2868
77.00	958272	177.00	18448	279.00	1701	385.00	1081
78.00	64848	178.00	6101	280.00	291	386.00	389
79.00	65800	179.00	72168	281.00	596	387.00	72
80.00	51560	180.00	45736	282.00	2135	388.00	93
81.00	71520	181.00	22200	283.00	4940	390.00	4332
82.00	17400	182.00	4356	284.00	3519	391.00	2725
83.00	13369	183.00	2042	285.00	8513	392.00	2346

Report Date: 10-Mar-2022 05:11:11 Chrom Revision: 2.3 16-Feb-2022 17:52:00
Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0500a.D\8270_SIM_HP21585.rslt\spect
Injection Date: 09-Mar-2022 18:40:05
Spectrum: Tune Spec :Average 159-161(5.00-5.01) Bgrd 153(4.96)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 397

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	1311	184.00	6656	286.00	2022	393.00	22
85.00	9568	185.00	35304	287.00	194	394.00	70
86.00	20952	186.00	233664	288.00	736	395.00	661
87.00	8087	187.00	68968	289.00	2707	396.00	276
88.00	3462	188.00	6942	290.00	1983	397.00	465
89.00	785	189.00	19600	291.00	1075	400.00	158
90.00	224	190.00	2875	292.00	1940	401.00	2923
91.00	15223	191.00	8664	293.00	11457	402.00	14363
92.00	17064	192.00	25936	294.00	3121	403.00	19568
93.00	126720	193.00	28600	295.00	4131	404.00	7746
94.00	6816	194.00	6871	296.00	189184	405.00	1106
95.00	3077	195.00	2170	297.00	24640	406.00	167
96.00	3600	196.00	45168	298.00	1733	408.00	67
97.00	1610	197.00	12367	299.00	915	410.00	459
98.00	101392	198.00	1440768	300.00	184	411.00	146
99.00	64072	199.00	95320	301.00	2642	414.00	63
100.00	5275	200.00	8233	302.00	3287	415.00	1377
101.00	34064	201.00	5758	303.00	19608	416.00	179
102.00	2018	203.00	16912	304.00	5451	417.00	123
103.00	10202	204.00	77128	305.00	817	419.00	94
104.00	24736	205.00	120720	306.00	355	419.00	359
105.00	25040	206.00	448320	307.00	123	420.00	95
106.00	6728	207.00	62024	308.00	2846	421.00	20392
107.00	275136	208.00	21432	309.00	1669	422.00	16808
108.00	37400	209.00	5393	310.00	2476	423.00	140992
109.00	8073	210.00	7433	311.00	499	424.00	29280
110.00	363072	211.00	19264	312.00	622	425.00	2541
111.00	66592	212.00	1540	313.00	1898	426.00	202
112.00	8675	213.00	1469	314.00	8772	428.00	59
113.00	3445	214.00	700	315.00	21456	429.00	371
114.00	493	215.00	6560	316.00	11908	430.00	142
115.00	577	216.00	13389	317.00	2869	431.00	146
116.00	16744	217.00	148416	318.00	470	432.00	76
117.00	344960	218.00	16984	319.00	551	433.00	215

Report Date: 10-Mar-2022 05:11:11 Chrom Revision: 2.3 16-Feb-2022 17:52:00
Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0500a.D\8270_SIM_HP21585.rslt\spect
Injection Date: 09-Mar-2022 18:40:05
Spectrum: Tune Spec :Average 159-161(5.00-5.01) Bgrd 153(4.96)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 397

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	23032	219.00	1922	320.00	890	434.00	381
119.00	1467	220.00	2364	321.00	5121	435.00	364
120.00	3451	221.00	77512	322.00	2838	436.00	207
121.00	1099	222.00	18048	323.00	54584	437.00	621
122.00	20152	223.00	33952	324.00	9776	438.00	934
123.00	29640	224.00	272192	325.00	748	439.00	1258
124.00	12484	225.00	71080	326.00	2177	440.00	627
125.00	9681	226.00	8309	327.00	10583	441.00	400064
126.00	3412	227.00	140288	328.00	5030	442.00	2618880
127.00	671808	228.00	17592	329.00	1023	443.00	512896
128.00	53824	229.00	25560	330.00	606	444.00	45528
129.00	318400	230.00	3371	331.00	401	445.00	2746
130.00	25712	231.00	9625	332.00	4545	446.00	65
131.00	4594	232.00	1988	333.00	5793	449.00	127
132.00	2362	233.00	2426	334.00	36872	451.00	233
133.00	683	234.00	6701	335.00	9026	452.00	79
134.00	9570	235.00	9966	336.00	868	461.00	142
135.00	23152	236.00	7654	338.00	59	465.00	73
136.00	11526	237.00	9534	338.00	102	474.00	158
137.00	14471	238.00	1530	339.00	912	490.00	131
138.00	2977	239.00	4512	340.00	951	492.00	116
139.00	1227	240.00	4051	341.00	7424	495.00	109
140.00	3821	241.00	8722	342.00	1930	509.00	157
141.00	50328	242.00	17368	343.00	680	523.00	112
142.00	12018	243.00	18056	345.00	303	523.00	112
143.00	10214	244.00	223488	346.00	13511	524.00	110
144.00	2924	245.00	29352	347.00	2581	525.00	72
145.00	1857	246.00	49240	348.00	482	535.00	165
146.00	9516	247.00	10147	349.00	70	549.00	125
147.00	28360	248.00	2054	350.00	430	550.00	74
148.00	76808	249.00	7080	351.00	1218		
149.00	12526	250.00	2087	352.00	19288		
150.00	2980	251.00	2395	353.00	13175		

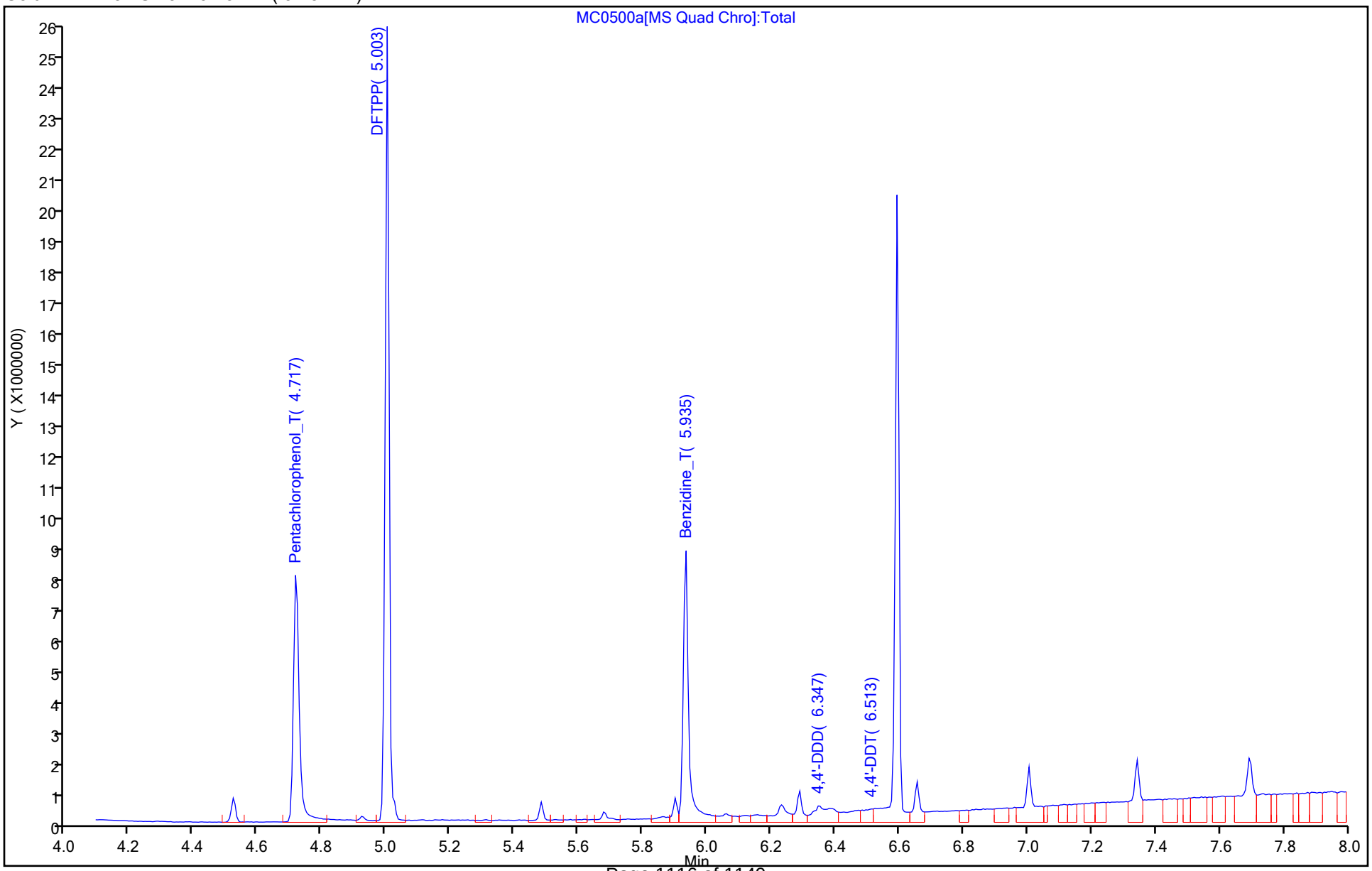
Report Date: 10-Mar-2022 05:11:11 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0500a.D

Injection Date:	09-Mar-2022 18:40:05	Instrument ID:	HP21585	Operator ID:	kel10217
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0500a.D
Injection Date: 09-Mar-2022 18:40:05 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

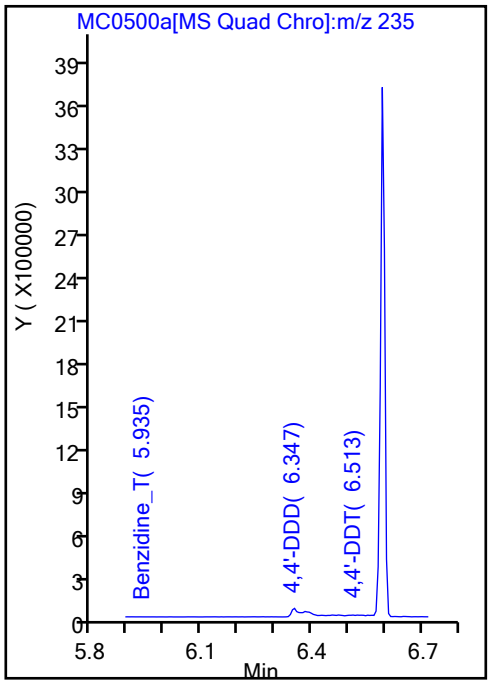
49 4,4'-DDT, Detector: MS Quad

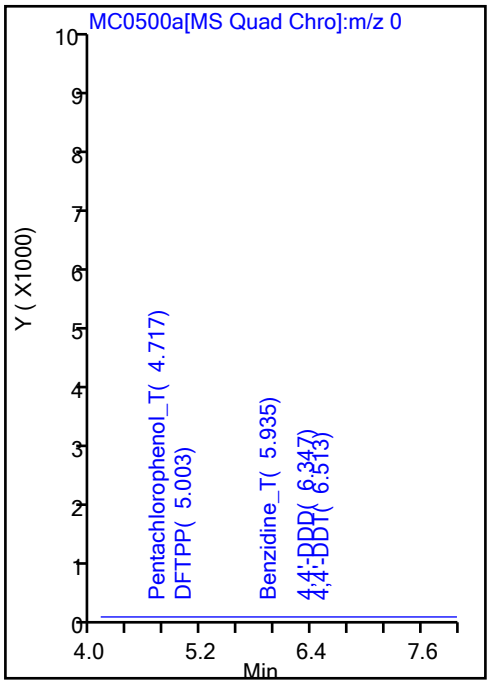
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 3015815
47 4,4'-DDE, Area = 0
48 4,4'-DDD, Area = 159033

%Breakdown: 5.01%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

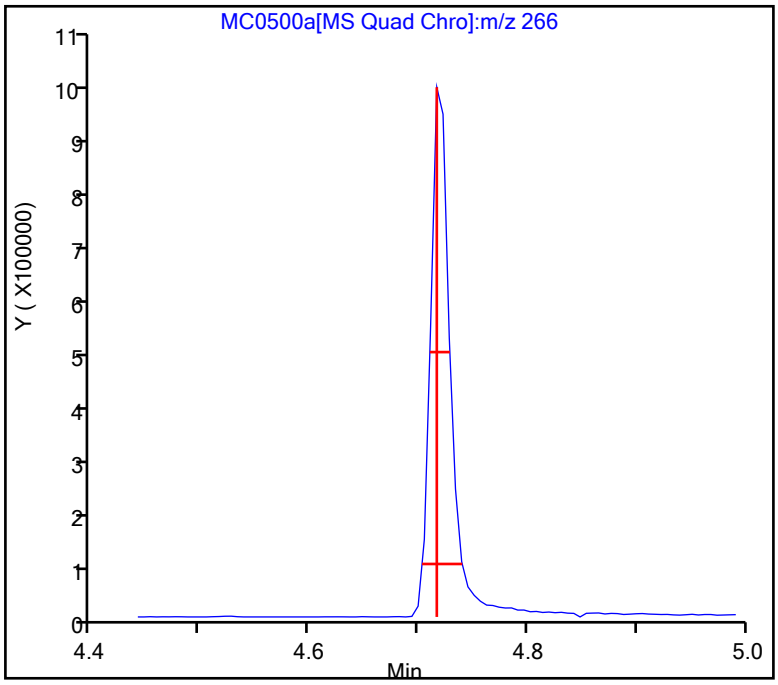
Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0500a.D
Injection Date: 09-Mar-2022 18:40:05 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.023 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.64, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

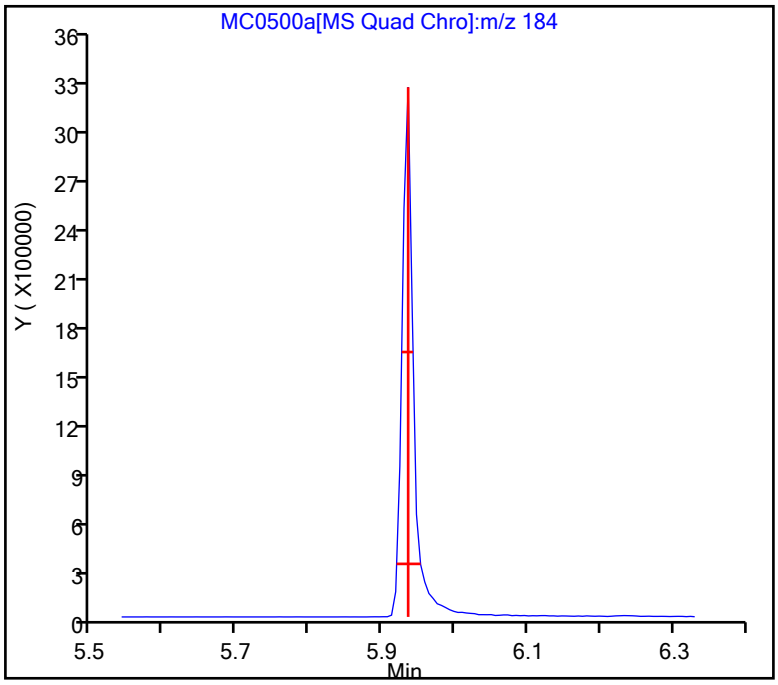
Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0500a.D
Injection Date: 09-Mar-2022 18:40:05 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 1.06, Max. Tailing <= 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-231594/1-A

Matrix: Water Lab File ID: MC0502.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 03/09/2022 09:51

Sample wt/vol: 250(mL) Date Analyzed: 03/09/2022 19:47

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 231826 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.30	0.10
90-12-0	1-Methylnaphthalene	ND		0.050	0.020
91-57-6	2-Methylnaphthalene	ND		0.050	0.020
83-32-9	Acenaphthene	ND		0.050	0.010
208-96-8	Acenaphthylene	ND		0.050	0.010
120-12-7	Anthracene	ND		0.050	0.010
56-55-3	Benzo[a]anthracene	ND		0.050	0.010
50-32-8	Benzo[a]pyrene	ND		0.050	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.050	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.050	0.010
111-44-4	Bis(2-chloroethyl)ether	ND		0.050	0.020
117-81-7	Bis(2-ethylhexyl) phthalate	ND		1.0	0.050
85-68-7	Butylbenzylphthalate	ND		1.0	0.050
218-01-9	Chrysene	ND		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.050	0.020
132-64-9	Dibenzofuran	ND		0.050	0.010
84-66-2	Diethylphthalate	0.0828	J	1.0	0.050
131-11-3	Dimethylphthalate	ND		1.0	0.050
84-74-2	Di-n-butyl phthalate	ND		1.0	0.050
117-84-0	Di-n-octyl phthalate	ND		1.0	0.050
206-44-0	Fluoranthene	ND		0.050	0.010
86-73-7	Fluorene	ND		0.050	0.010
118-74-1	Hexachlorobenzene	ND		0.050	0.020
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.050	0.020
91-20-3	Naphthalene	ND		0.070	0.030
62-75-9	N-Nitrosodimethylamine	ND		0.050	0.020
85-01-8	Phenanthrene	ND		0.070	0.030
129-00-0	Pyrene	ND		0.050	0.010

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-231594/1-A

Matrix: Water Lab File ID: MC0502.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 03/09/2022 09:51

Sample wt/vol: 250(mL) Date Analyzed: 03/09/2022 19:47

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 231826 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	65		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	81		10-110
93951-69-0	Fluoranthene-d10 (Surr)	78		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0502.D
Lims ID: MB 410-231594/1-A
Client ID:
Sample Type: MB
Inject. Date: 09-Mar-2022 19:47:01 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-231594/1-A
Misc. Info.: 410-0052091-003
Operator ID: kel10217 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 10-Mar-2022 05:07:52 Calib Date: 25-Jan-2022 08:29:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: gamblerj Date: 10-Mar-2022 04:55:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.829	6.829	0.000	86	29771	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.767	8.746	0.021	93	99444	0.2500	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.983	9.971	0.012	100	41430	0.2500	0.1615	
* 13 Acenaphthene-d10	164	11.548	11.536	0.012	88	89666	0.2500	0.2500	
16 Diethyl phthalate	149	12.211	12.218	0.000	98	8479		0.0207	M
* 20 Phenanthrene-d10	188	13.460	13.452	0.008	96	181101	0.2500	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.097	15.153	0.013	96	177881	0.2500	0.1960	
* 29 Chrysene-d12	240	17.494	17.471	0.023	55	221424	0.2500	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.825	19.848	0.015	97	195008	0.2500	0.2032	
* 38 Perylene-d12	264	19.956	19.940	0.016	97	275917	0.2500	0.2500	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00022 Amount Added: 10.00 Units: uL Run Reagent

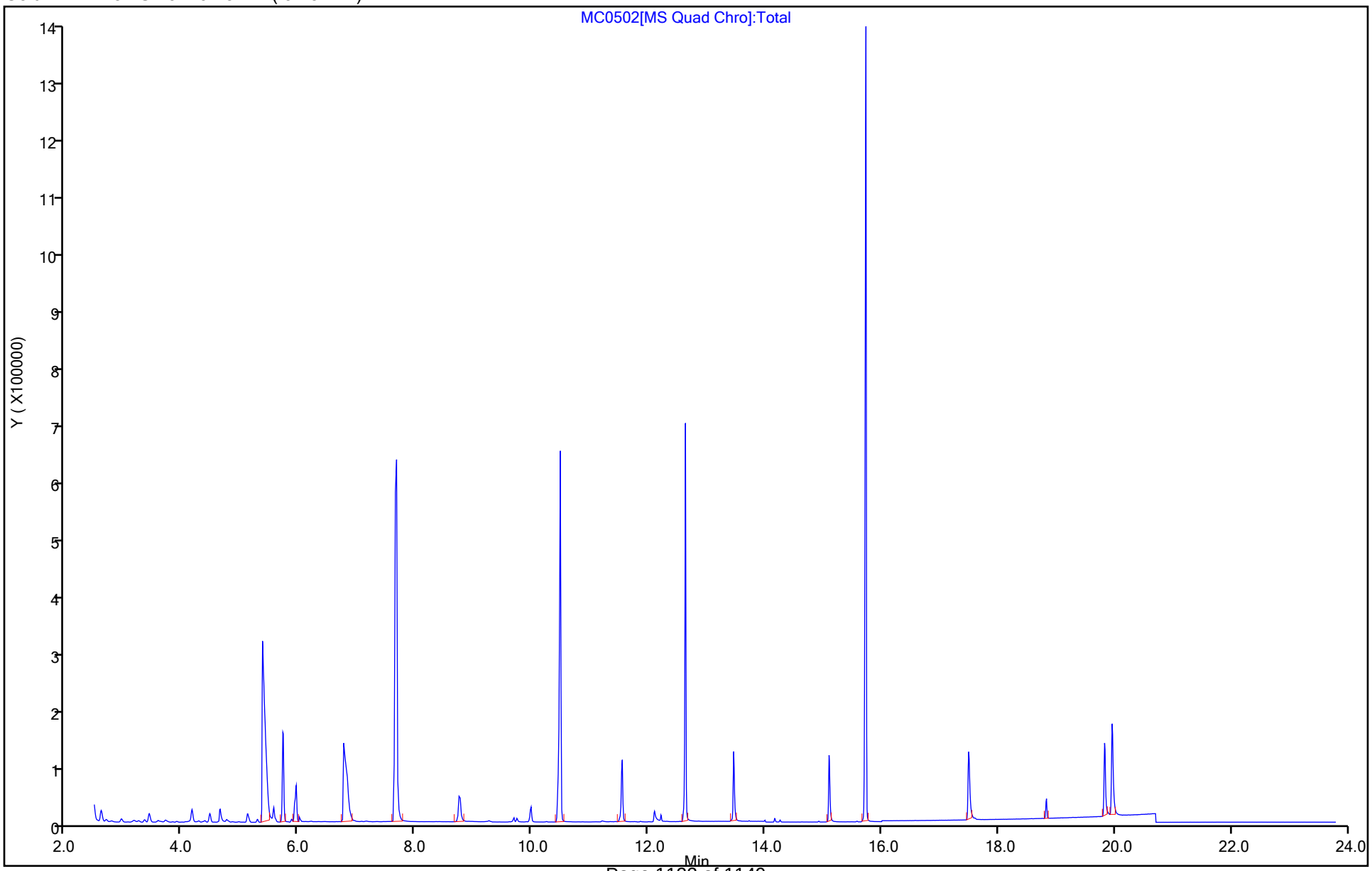
Report Date: 10-Mar-2022 05:07:54 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0502.D

Injection Date:	09-Mar-2022 19:47:01	Instrument ID:	HP21585	Operator ID:	kel10217
Lims ID:	MB 410-231594/1-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0502.D
Lims ID: MB 410-231594/1-A
Client ID:
Sample Type: MB
Inject. Date: 09-Mar-2022 19:47:01 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-231594/1-A
Misc. Info.: 410-0052091-003
Operator ID: kel10217 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 10-Mar-2022 05:07:52 Calib Date: 25-Jan-2022 08:29:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: gamblerj Date: 10-Mar-2022 04:55:32

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1615	64.61
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1960	78.42
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.2032	81.29

Report Date: 10-Mar-2022 05:07:54 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0502.D

Injection Date: 09-Mar-2022 19:47:01 Instrument ID: HP21585

Lims ID: MB 410-231594/1-A

Client ID:

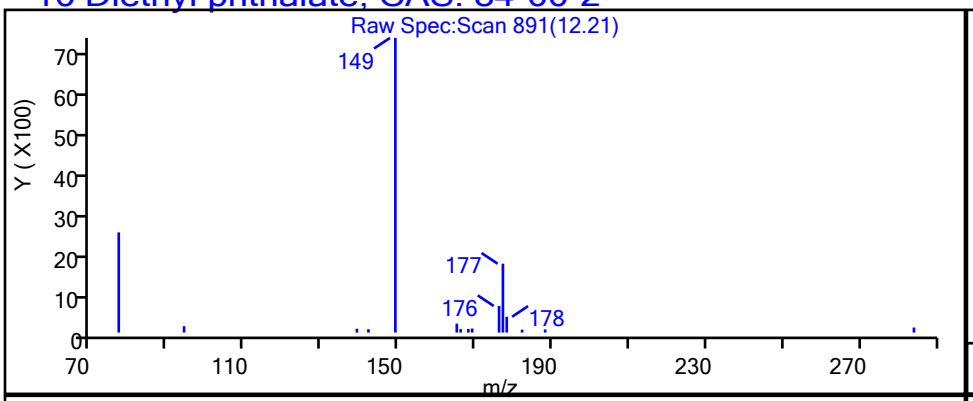
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 3

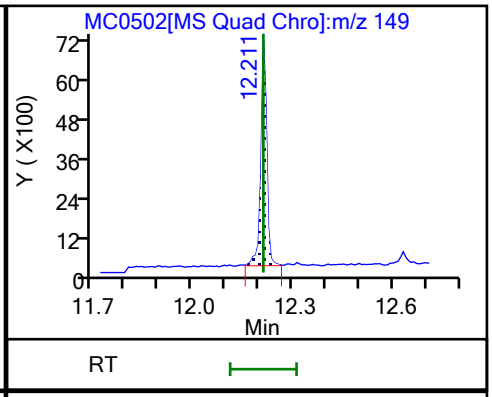
Injection Vol: 1.0 ul Dil. Factor: 1.0000

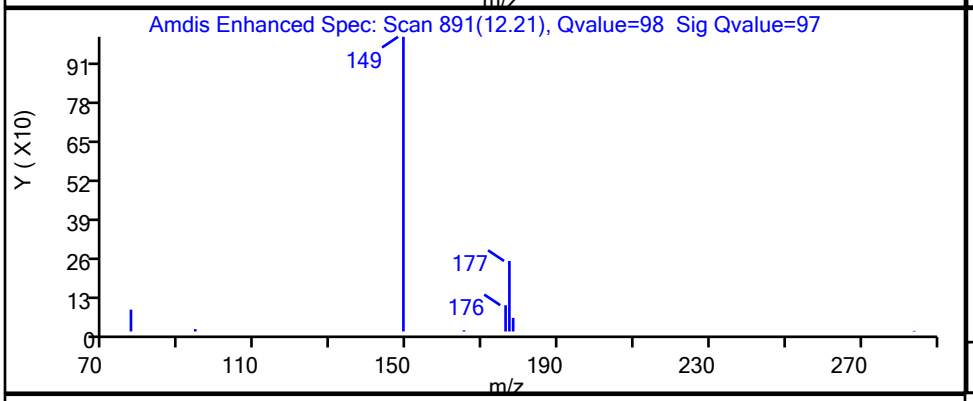
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

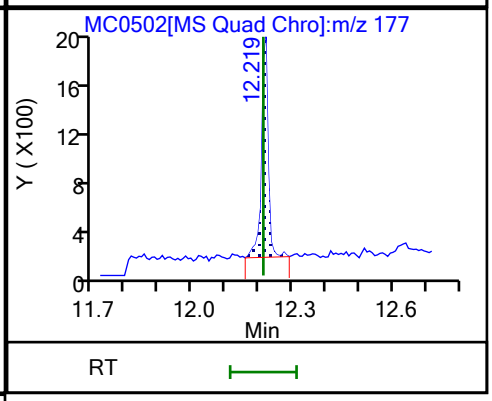
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

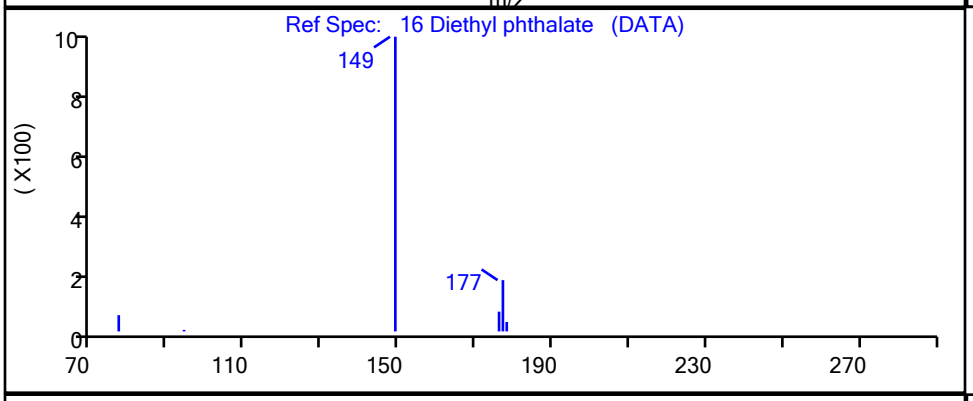
16 Diethyl phthalate, CAS: 84-66-2

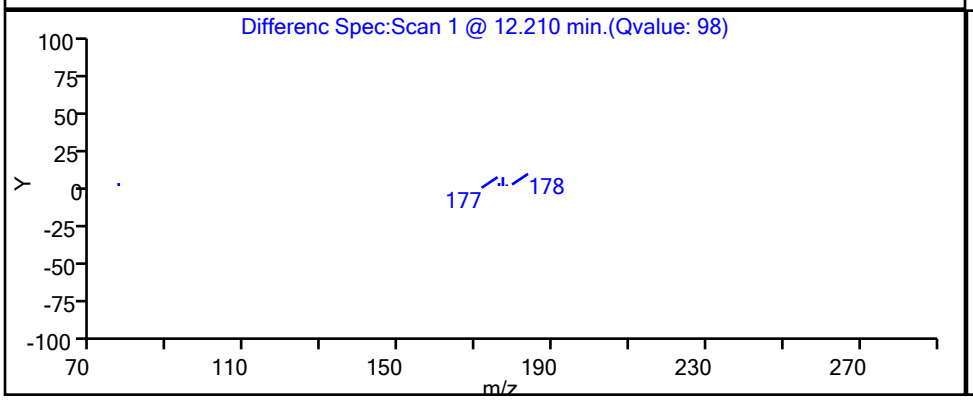


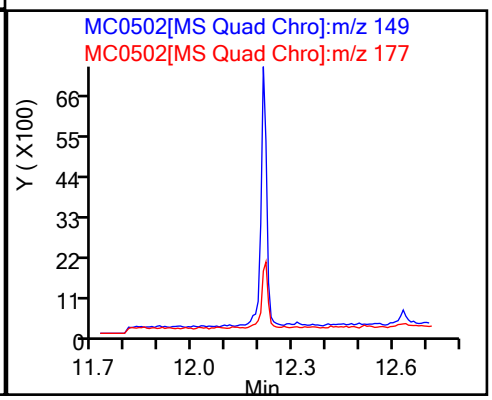












Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

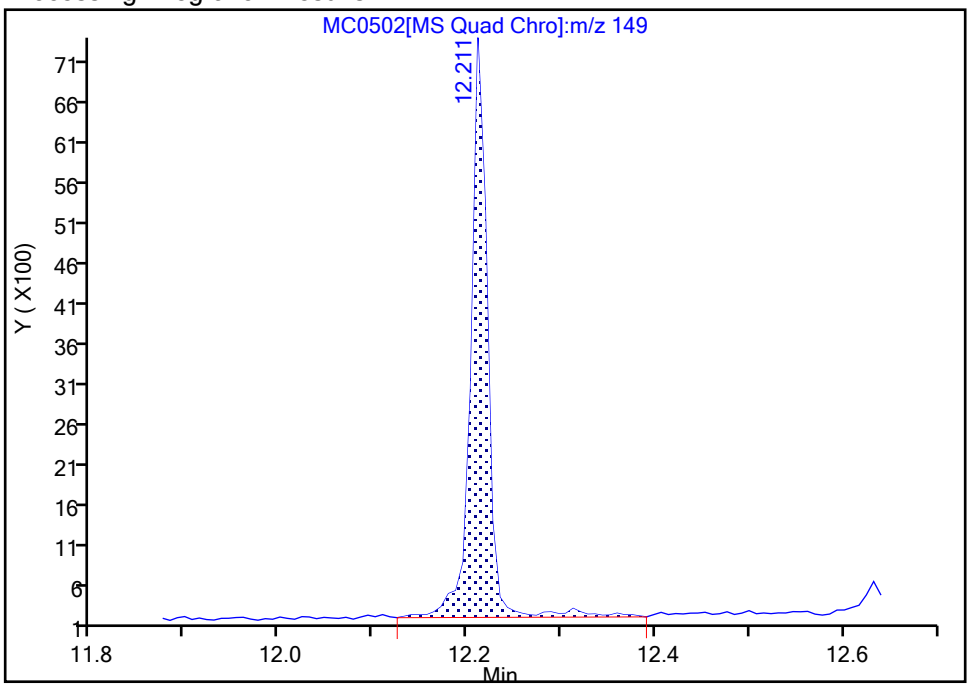
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0502.D				
Injection Date:	09-Mar-2022 19:47:01	Instrument ID:	HP21585		
Lims ID:	MB 410-231594/1-A				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

16 Diethyl phthalate, CAS: 84-66-2

Signal: 1

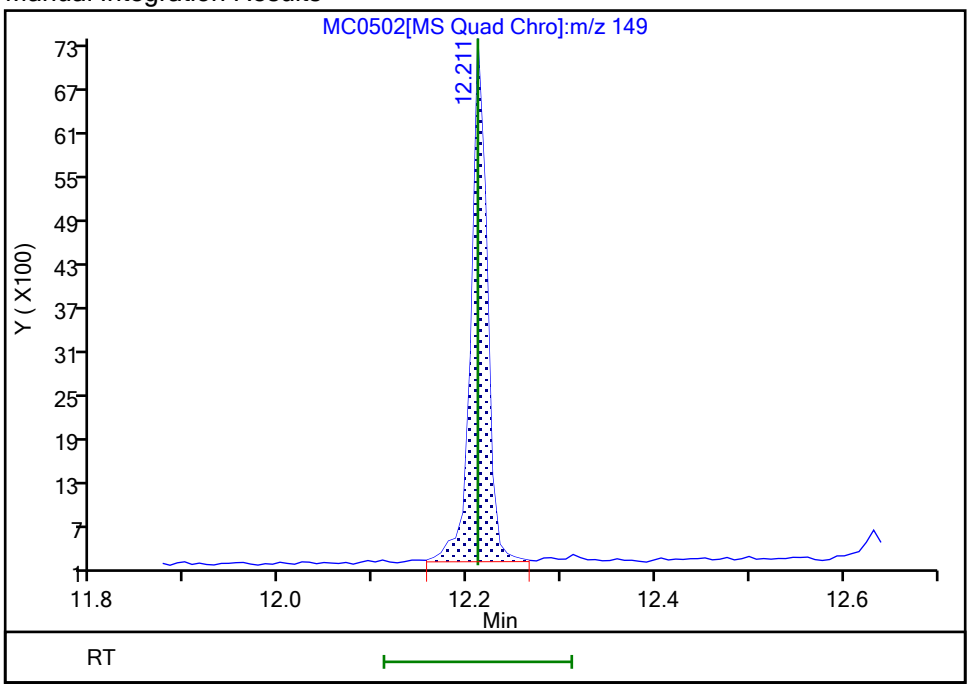
Processing Integration Results

RT: 12.21
Area: 8903
Amount: 0.021724
Amount Units: ug/ml



Manual Integration Results

RT: 12.21
Area: 8479
Amount: 0.020689
Amount Units: ug/ml



Reviewer: gamblerj, 10-Mar-2022 04:55:10

Audit Action: Manually Integrated Audit Reason: Baseline

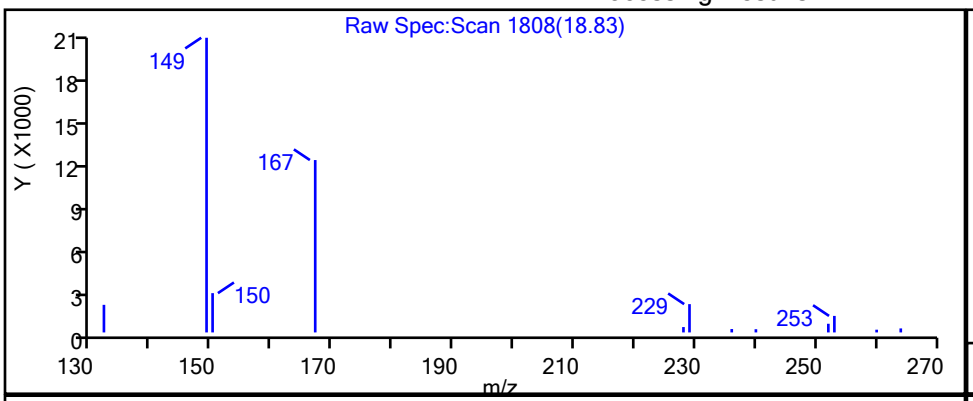
User Disabled Compound Report

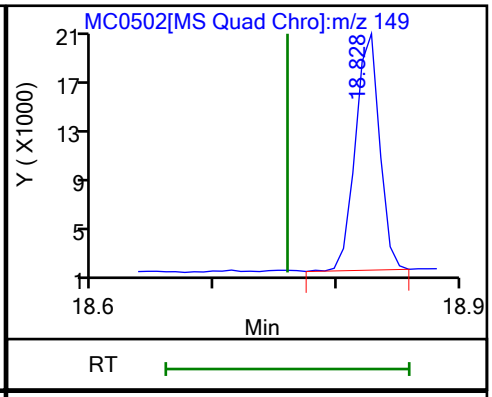
Eurofins Lancaster Laboratories Env, LLC

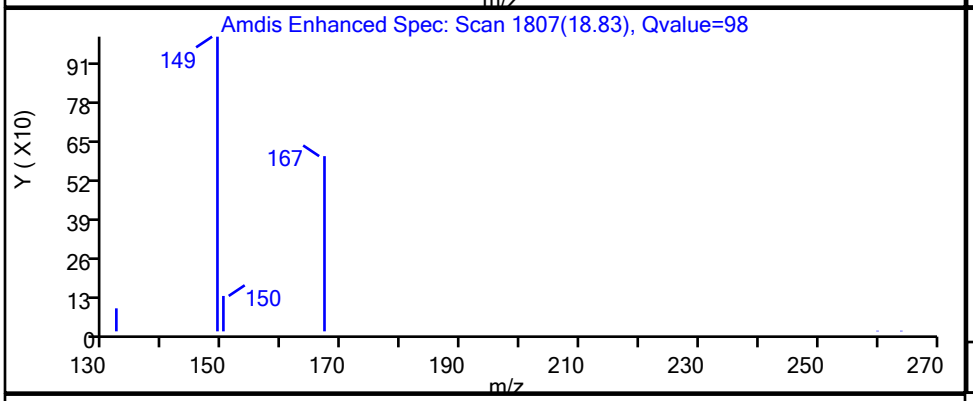
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0502.D				
Injection Date:	09-Mar-2022 19:47:01	Instrument ID:	HP21585		
Lims ID:	MB 410-231594/1-A				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

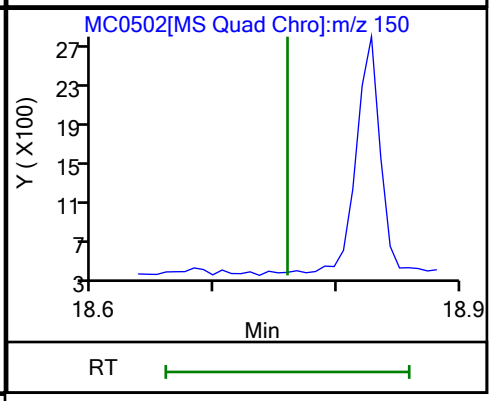
32 Di-n-octyl phthalate, CAS: 117-84-0

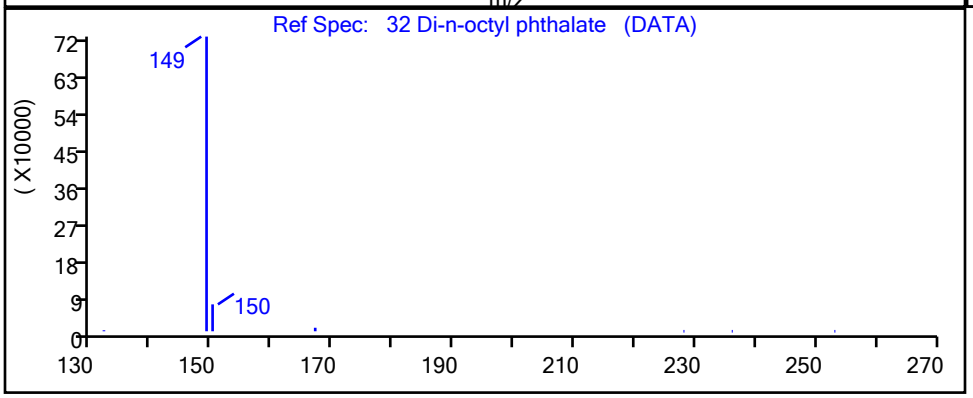
Processing Results











RT	Mass	Response	Amount
18.83	149.00	25661	0.032067
18.83	150.00	3680	

Reviewer: gamblerj, 10-Mar-2022 04:55:19

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-231594/2-A

Matrix: Water Lab File ID: MC0503.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 03/09/2022 09:51

Sample wt/vol: 250(mL) Date Analyzed: 03/09/2022 20:16

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 231826 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.516		0.30	0.10
90-12-0	1-Methylnaphthalene	0.609		0.050	0.020
91-57-6	2-Methylnaphthalene	0.571		0.050	0.020
83-32-9	Acenaphthene	0.630		0.050	0.010
208-96-8	Acenaphthylene	0.648		0.050	0.010
120-12-7	Anthracene	0.740		0.050	0.010
56-55-3	Benzo[a]anthracene	0.803		0.050	0.010
50-32-8	Benzo[a]pyrene	0.756		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.801		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	0.868		0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.789		0.050	0.010
111-44-4	Bis(2-chloroethyl)ether	1.43		0.050	0.020
117-81-7	Bis(2-ethylhexyl) phthalate	0.699	J	1.0	0.050
85-68-7	Butylbenzylphthalate	0.516	J	1.0	0.050
218-01-9	Chrysene	0.738		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	0.946		0.050	0.020
132-64-9	Dibenzofuran	0.713		0.050	0.010
84-66-2	Diethylphthalate	0.719	J	1.0	0.050
131-11-3	Dimethylphthalate	0.535	J	1.0	0.050
84-74-2	Di-n-butyl phthalate	0.695	J	1.0	0.050
117-84-0	Di-n-octyl phthalate	0.681	J	1.0	0.050
206-44-0	Fluoranthene	0.736		0.050	0.010
86-73-7	Fluorene	0.707		0.050	0.010
118-74-1	Hexachlorobenzene	0.627		0.050	0.020
193-39-5	Indeno[1,2,3-cd]pyrene	0.978		0.050	0.020
91-20-3	Naphthalene	0.583		0.070	0.030
62-75-9	N-Nitrosodimethylamine	0.909		0.050	0.020
85-01-8	Phenanthrene	0.724		0.070	0.030
129-00-0	Pyrene	0.711		0.050	0.010

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-231594/2-A

Matrix: Water Lab File ID: MC0503.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 03/09/2022 09:51

Sample wt/vol: 250(mL) Date Analyzed: 03/09/2022 20:16

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 231826 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	62		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	82		10-110
93951-69-0	Fluoranthene-d10 (Surr)	72		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0503.D
Lims ID: LCS 410-231594/2-A
Client ID:
Sample Type: LCS
Inject. Date: 09-Mar-2022 20:16:43 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-231594/2-A
Misc. Info.: 410-0052091-004
Operator ID: kel10217 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 10-Mar-2022 05:07:52 Calib Date: 25-Jan-2022 08:29:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: gamblerj Date: 10-Mar-2022 04:56:24

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.821	2.776	0.074	97	10876	0.2500	0.1289	
	2 N-Nitrosodimethylamine	74	3.325	3.251	0.074	96	19359	0.2500	0.2272	
	3 Bis(2-chloroethyl)ether	93	6.479	6.473	0.021	97	50779	0.2500	0.3576	
*	4 1,4-Dichlorobenzene-d4	152	6.829	6.829	0.000	88	28437	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.746	8.746	0.000	91	99670	0.2500	0.2500	
	6 Naphthalene	128	8.787	8.787	0.000	94	64147	0.2500	0.1459	
	8 2-Methylnaphthalene	142	9.885	9.909	-0.001	97	43073	0.2500	0.1428	
$	9 1-Methylnaphthalene-d10	152	9.983	9.971	0.012	100	39790	0.2500	0.1548	
	10 1-Methylnaphthalene	142	10.032	10.056	0.000	97	44480	0.2500	0.1521	
	11 Dimethyl phthalate	163	11.194	11.193	0.013	84	58504	0.2500	0.1336	
	12 Acenaphthylene	152	11.316	11.328	0.000	98	93979	0.2500	0.1621	
*	13 Acenaphthene-d10	164	11.536	11.536	0.000	96	87819	0.2500	0.2500	
	14 Acenaphthene	154	11.585	11.597	0.000	93	62696	0.2500	0.1576	
	15 Dibenzofuran	168	11.859	11.864	0.007	100	108433	0.2500	0.1783	
	16 Diethyl phthalate	149	12.211	12.218	0.000	97	72137	0.2500	0.1797	
	17 Fluorene	166	12.304	12.318	-0.001	96	86546	0.2500	0.1768	
	19 Hexachlorobenzene	284	12.952	12.967	0.000	91	28824	0.2500	0.1568	
*	20 Phenanthrene-d10	188	13.452	13.452	0.000	96	178197	0.2500	0.2500	
	21 Phenanthrene	178	13.483	13.483	0.008	100	141414	0.2500	0.1811	
	22 Anthracene	178	13.561	13.553	0.015	100	134168	0.2500	0.1851	
	23 Di-n-butyl phthalate	149	14.250	14.259	-0.001	100	112653	0.2500	0.1738	
$	24 Fluoranthene-d10 (Surr)	212	15.090	15.153	0.006	96	161127	0.2500	0.1805	
	25 Fluoranthene	202	15.122	15.124	0.006	99	180211	0.2500	0.1839	
	26 Pyrene	202	15.460	15.474	0.006	97	183078	0.2500	0.1777	
	27 Butyl benzyl phthalate	149	16.565	16.580	0.007	100	38530	0.2500	0.1290	
	28 Benzo[a]anthracene	228	17.463	17.478	0.008	100	201835	0.2500	0.2007	
*	29 Chrysene-d12	240	17.478	17.471	0.007	90	212235	0.2500	0.2500	
	30 Chrysene	228	17.524	17.540	0.007	100	214077	0.2500	0.1845	
	31 Bis(2-ethylhexyl) phthalate	149	17.593	17.617	0.000	98	74160	0.2500	0.1748	
	32 Di-n-octyl phthalate	149	18.759	18.781	0.000	100	128861	0.2500	0.1704	
	33 Benzo[b]fluoranthene	252	19.327	19.341	0.008	100	239975	0.2500	0.2003	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Benzo[k]fluoranthene	252	19.373	19.388	0.008	100	269164	0.2500	0.1972	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.817	19.848	0.007	97	186367	0.2500	0.2055	
37 Benzo[a]pyrene	252	19.856	19.886	0.008	100	219425	0.2500	0.1889	
* 38 Perylene-d12	264	19.948	19.940	0.008	97	260783	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.604	21.608	0.021	98	267712	0.2500	0.2445	M
41 Dibenz(a,h)anthracene	278	21.632	21.644	0.014	92	289274	0.2500	0.2366	
42 Benzo[g,h,i]perylene	276	22.021	22.032	0.014	93	298298	0.2500	0.2169	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00022 Amount Added: 10.00 Units: uL Run Reagent

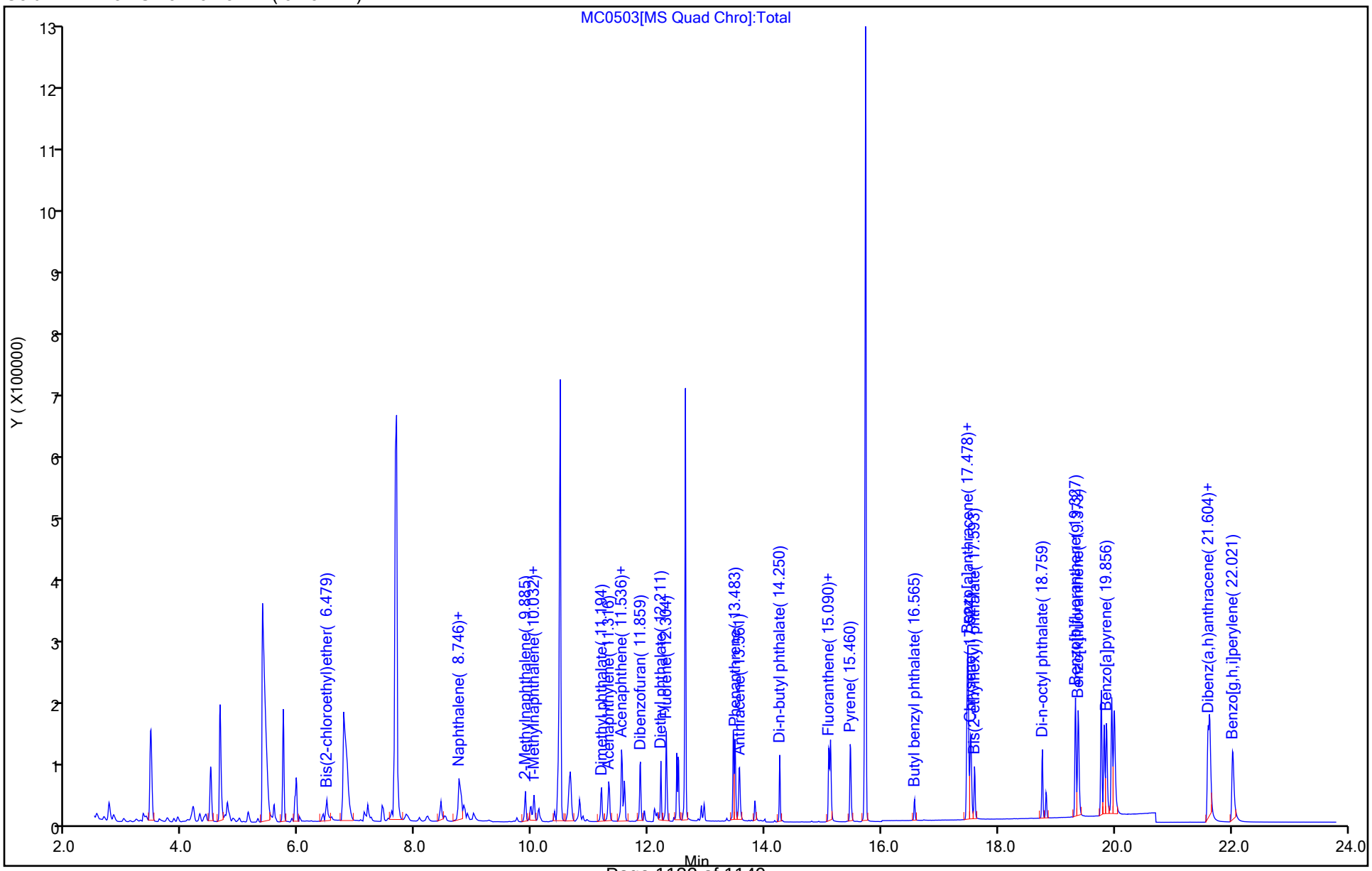
Report Date: 10-Mar-2022 05:07:55 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0503.D

Injection Date:	09-Mar-2022 20:16:43	Instrument ID:	HP21585	Operator ID:	kel10217
Lims ID:	LCS 410-231594/2-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0503.D
Lims ID: LCS 410-231594/2-A
Client ID:
Sample Type: LCS
Inject. Date: 09-Mar-2022 20:16:43 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-231594/2-A
Misc. Info.: 410-0052091-004
Operator ID: kel10217 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 10-Mar-2022 05:07:52 Calib Date: 25-Jan-2022 08:29:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: gamblerj Date: 10-Mar-2022 04:56:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1548	61.91
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1805	72.19
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.2055	82.19

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

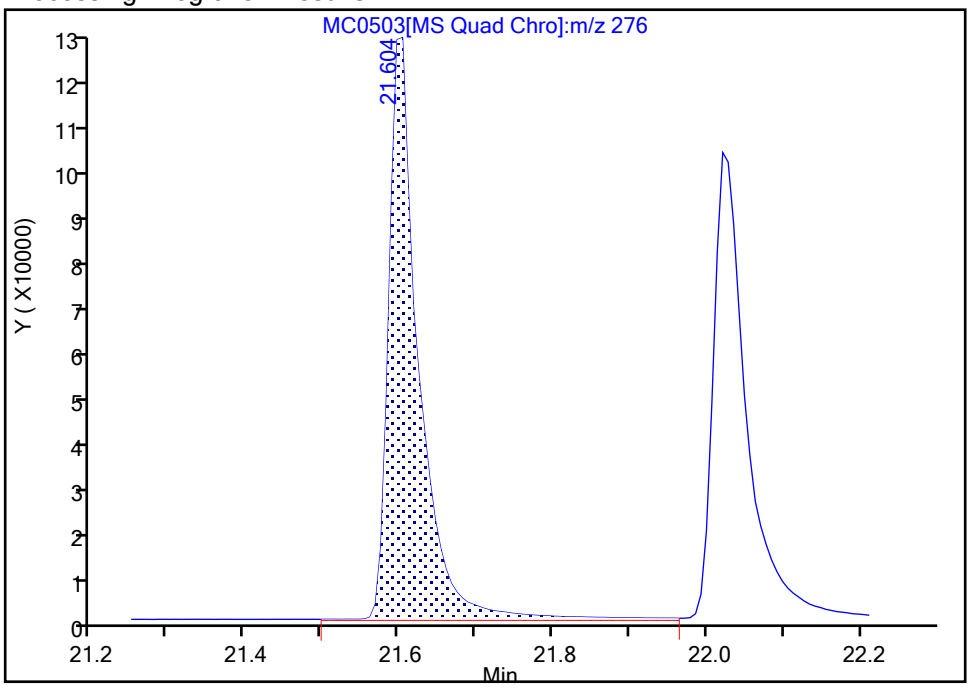
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0503.D				
Injection Date:	09-Mar-2022 20:16:43	Instrument ID:	HP21585		
Lims ID:	LCS 410-231594/2-A				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

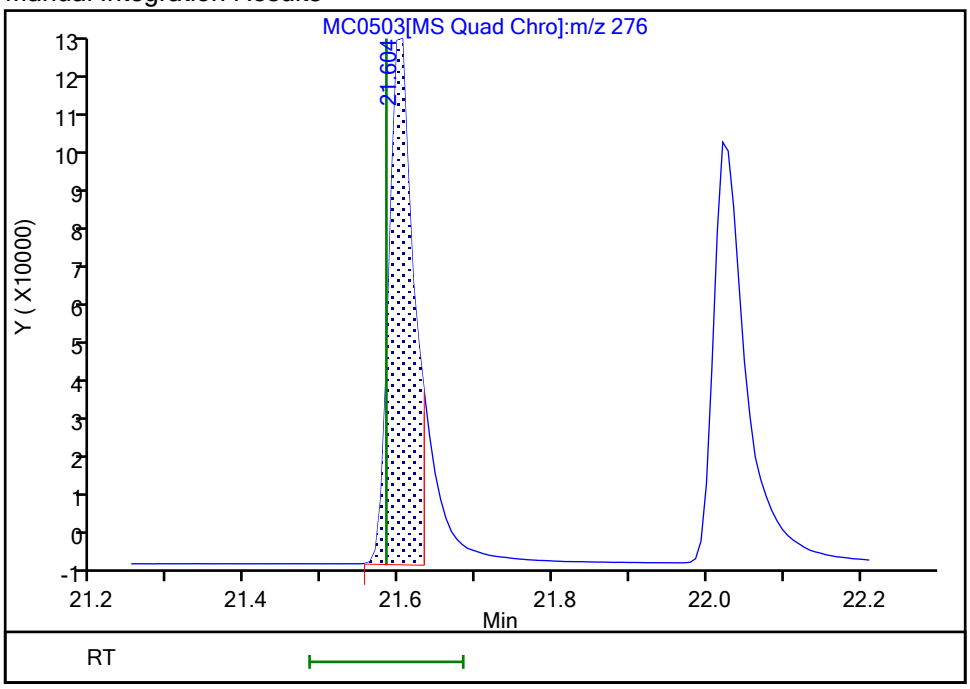
Processing Integration Results

RT: 21.60
Area: 336220
Amount: 0.307068
Amount Units: ug/ml



Manual Integration Results

RT: 21.60
Area: 267712
Amount: 0.244500
Amount Units: ug/ml



Reviewer: gamblerj, 10-Mar-2022 04:56:20

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-231594/3-A

Matrix: Water Lab File ID: MC0504.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 03/09/2022 09:51

Sample wt/vol: 250(mL) Date Analyzed: 03/09/2022 20:46

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 231826 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.547		0.30	0.10
90-12-0	1-Methylnaphthalene	0.757		0.050	0.020
91-57-6	2-Methylnaphthalene	0.725		0.050	0.020
83-32-9	Acenaphthene	0.770		0.050	0.010
208-96-8	Acenaphthylene	0.789		0.050	0.010
120-12-7	Anthracene	0.868		0.050	0.010
56-55-3	Benzo[a]anthracene	0.917		0.050	0.010
50-32-8	Benzo[a]pyrene	0.867		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.938		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	0.946		0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.892		0.050	0.010
111-44-4	Bis(2-chloroethyl)ether	1.53		0.050	0.020
117-81-7	Bis(2-ethylhexyl) phthalate	0.868	J	1.0	0.050
85-68-7	Butylbenzylphthalate	0.514	J	1.0	0.050
218-01-9	Chrysene	0.863		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	1.03		0.050	0.020
132-64-9	Dibenzofuran	0.854		0.050	0.010
84-66-2	Diethylphthalate	0.786	J	1.0	0.050
131-11-3	Dimethylphthalate	0.521	J	1.0	0.050
84-74-2	Di-n-butyl phthalate	0.815	J	1.0	0.050
117-84-0	Di-n-octyl phthalate	0.743	J	1.0	0.050
206-44-0	Fluoranthene	0.883		0.050	0.010
86-73-7	Fluorene	0.839		0.050	0.010
118-74-1	Hexachlorobenzene	0.822		0.050	0.020
193-39-5	Indeno[1,2,3-cd]pyrene	1.11		0.050	0.020
91-20-3	Naphthalene	0.748		0.070	0.030
62-75-9	N-Nitrosodimethylamine	0.984		0.050	0.020
85-01-8	Phenanthrene	0.859		0.070	0.030
129-00-0	Pyrene	0.806		0.050	0.010

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-74987-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-231594/3-A

Matrix: Water Lab File ID: MC0504.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 03/09/2022 09:51

Sample wt/vol: 250(mL) Date Analyzed: 03/09/2022 20:46

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 231826 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
38072-94-5	1-Methylnaphthalene-d10 (Surr)	79		36-111
63466-71-7	Benzo(a)pyrene-d12 (Surr)	94		10-110
93951-69-0	Fluoranthene-d10 (Surr)	87		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0504.D
Lims ID: LCSD 410-231594/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 09-Mar-2022 20:46:33 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 410-231594/3-A
Misc. Info.: 410-0052091-005
Operator ID: kel10217 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 10-Mar-2022 05:07:52 Calib Date: 25-Jan-2022 08:29:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: gamblerj Date: 10-Mar-2022 04:58:34

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.806	2.776	0.059	98	12111	0.2500	0.1367	
	2 N-Nitrosodimethylamine	74	3.319	3.251	0.067	95	22017	0.2500	0.2459	
	3 Bis(2-chloroethyl)ether	93	6.479	6.473	0.021	96	55652	0.2500	0.3832	M
*	4 1,4-Dichlorobenzene-d4	152	6.830	6.829	0.001	94	29876	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.746	8.746	0.000	98	101927	0.2500	0.2500	
	6 Naphthalene	128	8.788	8.787	0.001	94	84058	0.2500	0.1869	
	8 2-Methylnaphthalene	142	9.886	9.909	0.000	97	55930	0.2500	0.1813	
$	9 1-Methylnaphthalene-d10	152	9.971	9.971	0.000	100	51998	0.2500	0.1978	
	10 1-Methylnaphthalene	142	10.033	10.056	0.001	97	56611	0.2500	0.1893	
	11 Dimethyl phthalate	163	11.194	11.193	0.013	94	58472	0.2500	0.1303	
	12 Acenaphthylene	152	11.316	11.328	0.000	98	117266	0.2500	0.1973	
*	13 Acenaphthene-d10	164	11.536	11.536	0.000	93	90004	0.2500	0.2500	
	14 Acenaphthene	154	11.585	11.597	0.000	94	78453	0.2500	0.1924	
	15 Dibenzofuran	168	11.852	11.864	0.000	100	133107	0.2500	0.2135	
	16 Diethyl phthalate	149	12.211	12.218	0.000	98	80825	0.2500	0.1965	
	17 Fluorene	166	12.305	12.318	0.000	96	105274	0.2500	0.2098	
	19 Hexachlorobenzene	284	12.953	12.967	0.001	91	38608	0.2500	0.2055	
*	20 Phenanthrene-d10	188	13.452	13.452	0.000	96	182068	0.2500	0.2500	
	21 Phenanthrene	178	13.483	13.483	0.008	100	171455	0.2500	0.2149	
	22 Anthracene	178	13.562	13.553	0.016	100	160694	0.2500	0.2169	
	23 Di-n-butyl phthalate	149	14.251	14.259	0.000	100	134857	0.2500	0.2036	
$	24 Fluoranthene-d10 (Surr)	212	15.091	15.153	0.007	96	197891	0.2500	0.2169	
	25 Fluoranthene	202	15.122	15.124	0.006	99	221132	0.2500	0.2208	
	26 Pyrene	202	15.461	15.474	0.007	97	225367	0.2500	0.2015	
	27 Butyl benzyl phthalate	149	16.566	16.580	0.008	100	41719	0.2500	0.1286	
	28 Benzo[a]anthracene	228	17.463	17.478	0.008	100	250538	0.2500	0.2294	
*	29 Chrysene-d12	240	17.479	17.471	0.008	73	230487	0.2500	0.2500	
	30 Chrysene	228	17.525	17.540	0.008	100	272001	0.2500	0.2158	
	31 Bis(2-ethylhexyl) phthalate	149	17.594	17.617	0.001	98	100022	0.2500	0.2171	
	32 Di-n-octyl phthalate	149	18.759	18.781	0.000	100	149395	0.2500	0.1857	
	33 Benzo[b]fluoranthene	252	19.327	19.341	0.008	100	298640	0.2500	0.2344	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Benzo[k]fluoranthene	252	19.373	19.388	0.008	100	323723	0.2500	0.2230	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.818	19.848	0.008	97	226349	0.2500	0.2346	
37 Benzo[a]pyrene	252	19.856	19.886	0.008	100	267953	0.2500	0.2169	
* 38 Perylene-d12	264	19.948	19.940	0.008	97	277368	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.598	21.608	0.015	98	323386	0.2500	0.2777	M
41 Dibenz(a,h)anthracene	278	21.626	21.644	0.008	90	336476	0.2500	0.2587	
42 Benzo[g,h,i]perylene	276	22.021	22.032	0.014	93	345925	0.2500	0.2365	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00022 Amount Added: 10.00 Units: uL Run Reagent

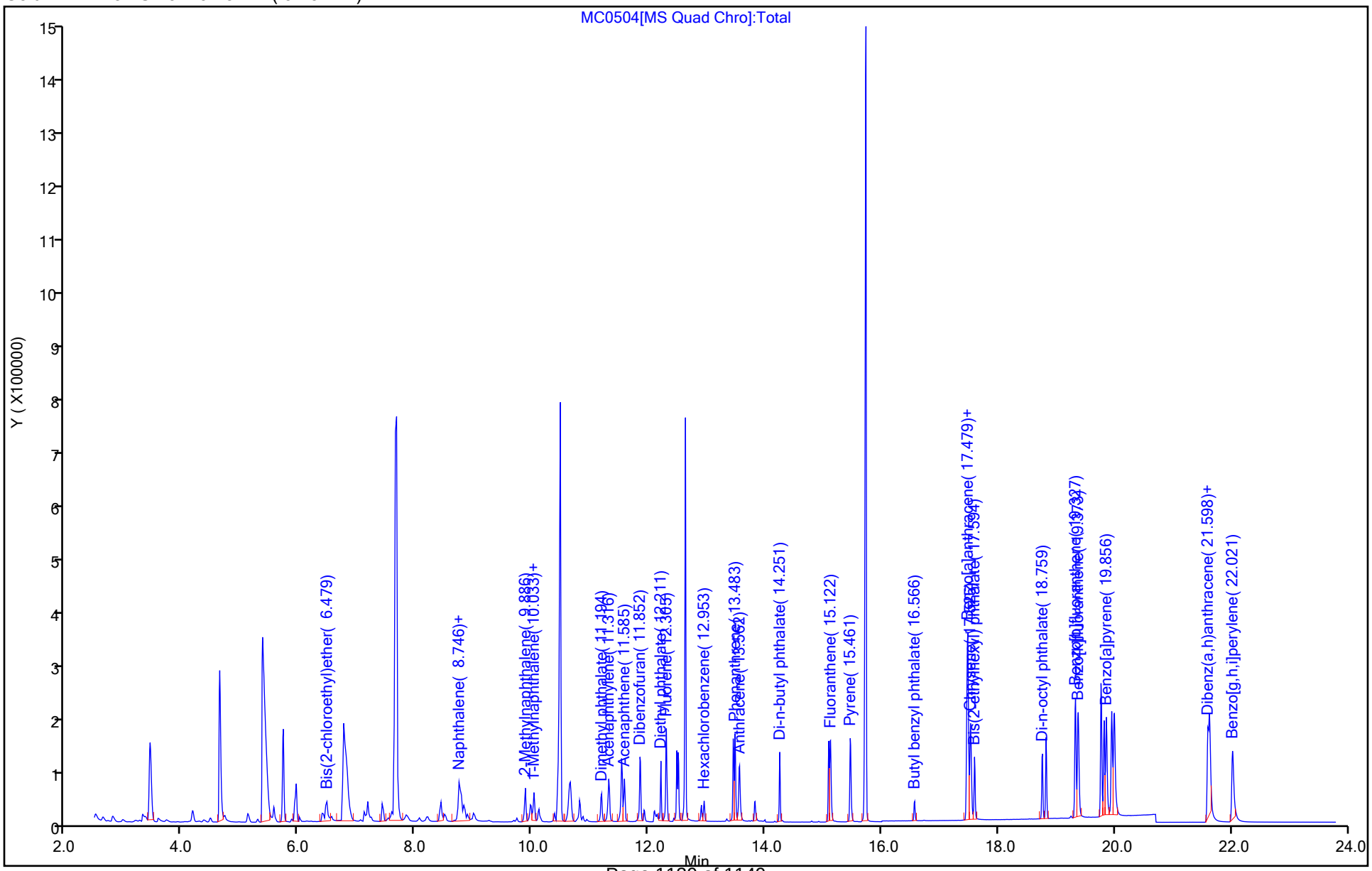
Report Date: 10-Mar-2022 05:07:56 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0504.D

Injection Date:	09-Mar-2022 20:46:33	Instrument ID:	HP21585	Operator ID:	kel10217
Lims ID:	LCSD 410-231594/3-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0504.D
Lims ID: LCSD 410-231594/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 09-Mar-2022 20:46:33 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 410-231594/3-A
Misc. Info.: 410-0052091-005
Operator ID: kel10217 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 10-Mar-2022 05:07:52 Calib Date: 25-Jan-2022 08:29:00
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: gamblerj Date: 10-Mar-2022 04:58:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1978	79.12
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.2169	86.77
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.2346	93.86

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

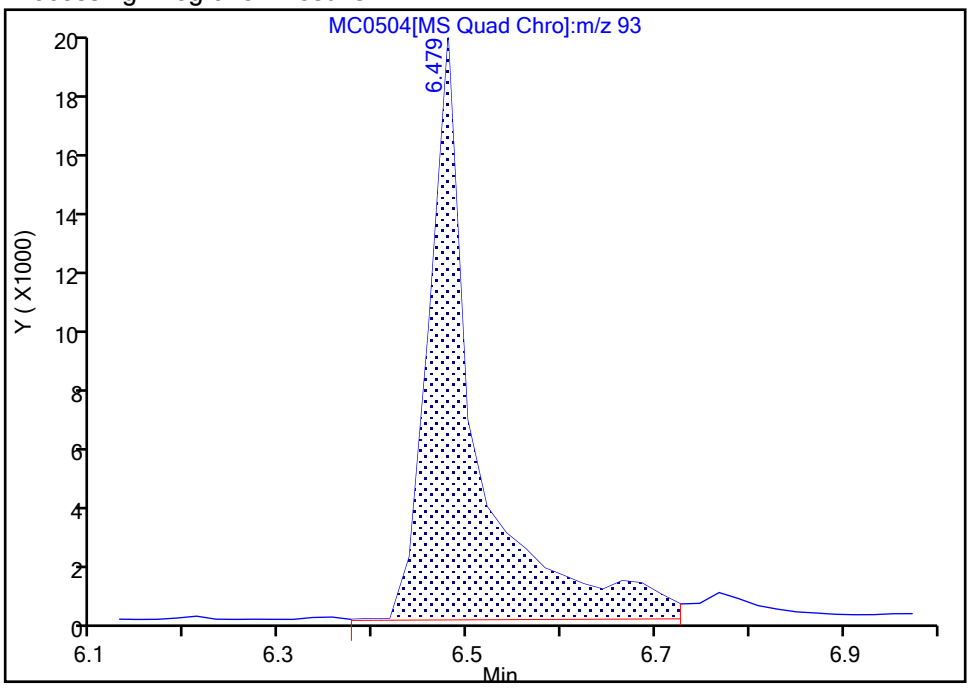
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0504.D				
Injection Date:	09-Mar-2022 20:46:33	Instrument ID:	HP21585		
Lims ID:	LCSD 410-231594/3-A				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

3 Bis(2-chloroethyl)ether, CAS: 111-44-4

Signal: 1

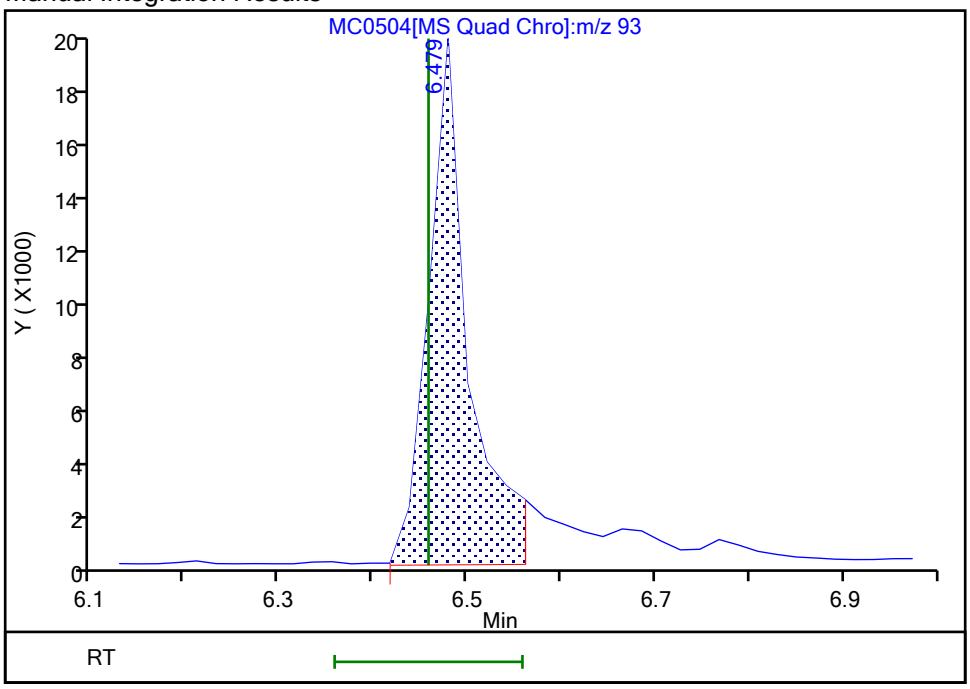
Processing Integration Results

RT: 6.48
Area: 67787
Amount: 0.466757
Amount Units: ug/ml



Manual Integration Results

RT: 6.48
Area: 55652
Amount: 0.383200
Amount Units: ug/ml



Reviewer: gamblerj, 10-Mar-2022 04:58:11
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

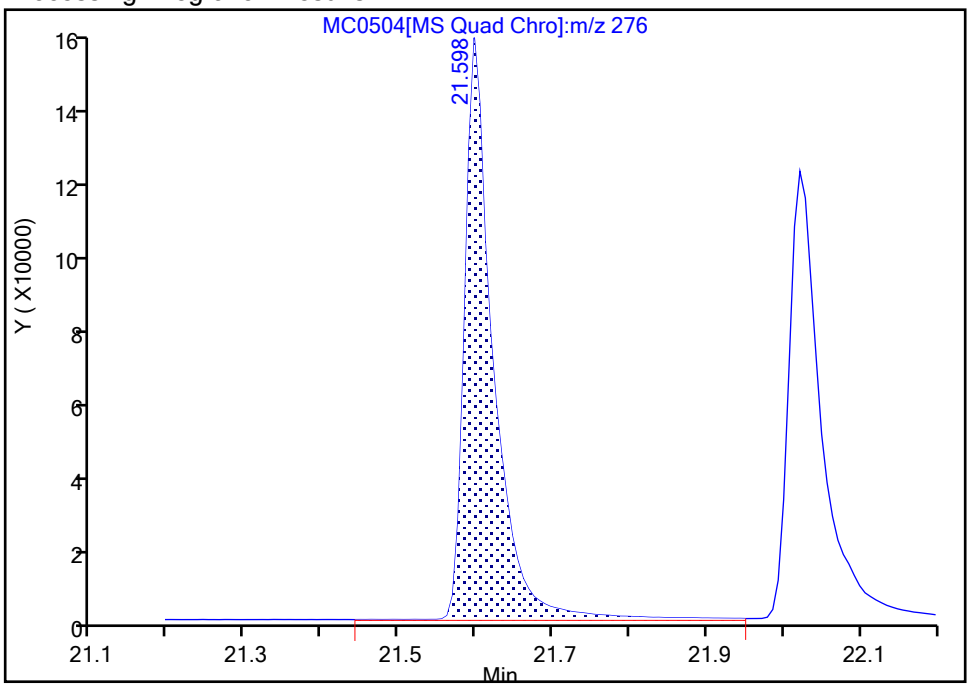
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20220309-52091.b\MC0504.D				
Injection Date:	09-Mar-2022 20:46:33	Instrument ID:	HP21585		
Lims ID:	LCSD 410-231594/3-A				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

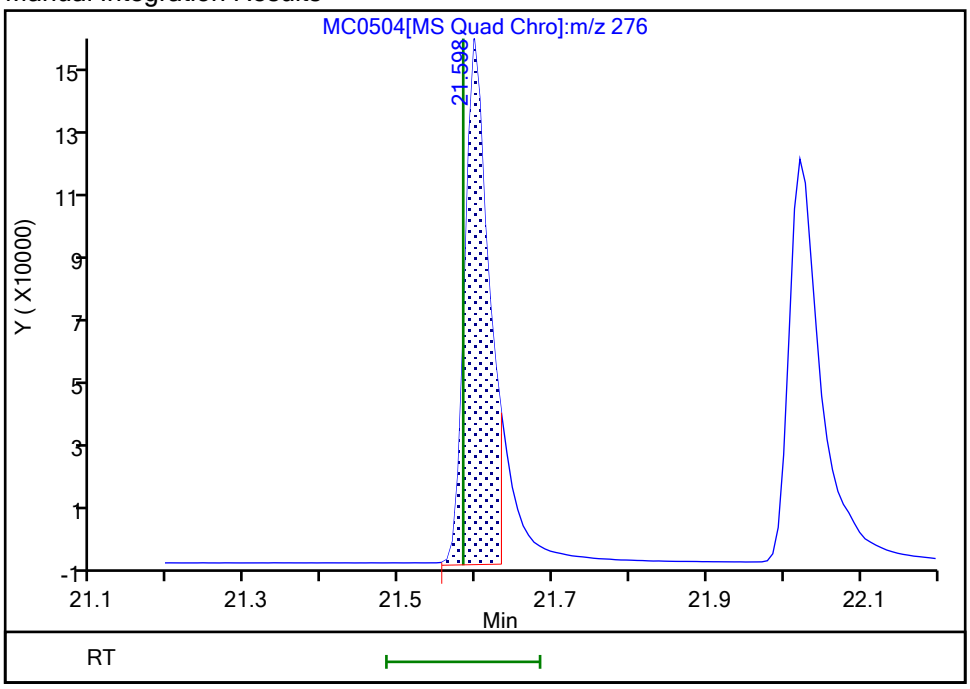
Processing Integration Results

RT: 21.60
Area: 394769
Amount: 0.338982
Amount Units: ug/ml



Manual Integration Results

RT: 21.60
Area: 323386
Amount: 0.277687
Amount Units: ug/ml



Reviewer: gamblerj, 10-Mar-2022 04:57:27

Audit Action: Manually Integrated Audit Reason: Baseline

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Instrument ID: HP21585 Start Date: 01/25/2022 05:27

Analysis Batch Number: 217423 End Date: 01/25/2022 15:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-217423/1		01/25/2022 05:27	1	MA0850.D	DB-5MS 30m 0.25 0.25(mm)
ICIS 410-217423/2		01/25/2022 05:48	1	MA0851.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-217423/3		01/25/2022 06:30	1	MA0852.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-217423/4		01/25/2022 06:59	1	MA0853.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-217423/5		01/25/2022 07:29	1	MA0854.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-217423/6		01/25/2022 07:59	1	MA0855.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-217423/7		01/25/2022 08:29	1	MA0856.D	DB-5MS 30m 0.25 0.25(mm)
ICVL 410-217423/8		01/25/2022 08:58	1		DB-5MS 30m 0.25 0.25(mm)
ICV 410-217423/9		01/25/2022 09:28	1	MA0858.D	DB-5MS 30m 0.25 0.25(mm)
ICV 410-217423/10		01/25/2022 09:58	1	MA0859.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		01/25/2022 13:20	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		01/25/2022 13:49	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		01/25/2022 14:19	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		01/25/2022 14:49	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		01/25/2022 15:19	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		01/25/2022 15:48	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-74987-1

SDG No.:

Instrument ID: HP21585 Start Date: 03/09/2022 18:40

Analysis Batch Number: 231826 End Date: 03/10/2022 04:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-231826/1		03/09/2022 18:40	1	MC0500a.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-231826/2		03/09/2022 18:57	1	MC0501a.D	DB-5MS 30m 0.25 0.25(mm)
MB 410-231594/1-A		03/09/2022 19:47	1	MC0502.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-231594/2-A		03/09/2022 20:16	1	MC0503.D	DB-5MS 30m 0.25 0.25(mm)
LCSD 410-231594/3-A		03/09/2022 20:46	1	MC0504.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/09/2022 21:16	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/09/2022 21:46	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/09/2022 22:15	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/09/2022 22:45	1		DB-5MS 30m 0.25 0.25(mm)
410-74987-1	FBW001_03032022	03/09/2022 23:15	1	MC0509.D	DB-5MS 30m 0.25 0.25(mm)
410-74987-2	FBS010_03032022	03/09/2022 23:45	1	MC0510.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/10/2022 00:15	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/10/2022 00:45	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/10/2022 01:15	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/10/2022 02:14	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/10/2022 02:44	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/10/2022 03:44	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/10/2022 04:26	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-74987-1

SDG No.:

Batch Number: 231594 Batch Start Date: 03/09/22 09:51 Batch Analyst: Gibson, Cara

Batch Method: 3510C Batch End Date: 03/09/22 14:26

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	DensityAcc	InitialAmount	FinalAmount	ReceivedpH
MB 410-231594/1		3510C, 8270D SIM				N/A	250 mL	1 mL	N/A SU
LCS 410-231594/2		3510C, 8270D SIM				N/A	250 mL	1 mL	N/A SU
LCSD 410-231594/3		3510C, 8270D SIM				N/A	250 mL	1 mL	N/A SU
410-74987-D-1	FBW001_03032022	3510C, 8270D SIM	T	414.45 g	166.36 g	N/A	248.1 mL	1 mL	N/A SU
410-74987-D-2	FBS010_03032022	3510C, 8270D SIM	T	416.38 g	168.61 g	N/A	247.8 mL	1 mL	N/A SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	FirstAdjustpH	SecondAdjustpH	CUPerformed	OP_MINIBNA_SS 00056	OP_SIMLCS_MS 00060	AnalysisComment
MB 410-231594/1		3510C, 8270D SIM		>11 SU	<2 SU	N/A	1 mL		Tap Water
LCS 410-231594/2		3510C, 8270D SIM		>11 SU	<2 SU	N/A	1 mL	0.25 mL	Tap Water
LCSD 410-231594/3		3510C, 8270D SIM		>11 SU	<2 SU	N/A	1 mL	0.25 mL	Tap Water
410-74987-D-1	FBW001_03032022	3510C, 8270D SIM	T	>11 SU	<2 SU	N/A	1 mL		Clear
410-74987-D-2	FBS010_03032022	3510C, 8270D SIM	T	>11 SU	<2 SU	N/A	1 mL		Clear

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-74987-1

SDG No.:

Batch Number: 231594 Batch Start Date: 03/09/22 09:51 Batch Analyst: Gibson, Cara

Batch Method: 3510C Batch End Date: 03/09/22 14:26

Batch Notes	
Balance ID	25996
Pipette/Syringe/Dispenser ID	3
Analyst ID - Extraction	CNG41579
Analyst ID - Spike Analyst	CNG41579
Acid Used for pH Adjustment ID	H2SO4: 212463
Base Used to Adjust pH ID	NaOH: 4106F80
Prep Solvent ID	MeCl2: 218657
Prep Solvent Volume Used	90 mL
Na2SO4 ID	22067A
Analyst ID - Concentration	CNG41579
Equipment ID - Concentration 1	Rapid Vap # 3, 4
Concentration 1 Corrected Temperature	80 Degrees C
Batch Comment	Split with batch 231598

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

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

410-74987 Chain of Custody

rofins Environment Testing America

Client Information	Sampler: Craig Bowden	Lab PM: Cottman, Hannah L	0613-14132.1
Client Contact: Kay Kincannon	Phone: 417-350-9037	E-Mail: Hannah.Cottman@eurofinset com	Page 1 of 1
Company: Environmental Works, Inc.	PWSID:	Analysis Requested	Job #
Address: 1455 East Chestnut Expressway	Due Date Requested:		Preservation Codes:
City: Springfield	TAT Requested (days): standard		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: MO, 65802	Compliance Project: Δ Yes Δ No		
Phone: 406-457-2142(Tel)	PO #: SPRINGFIELD, MO		
Email: kkincannon@environmentalworks.com	WO #:		Other:
Project Name: Springfield, MO – OFIWP	Project #: 41006923		
Site: Fulbright	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Springfield, MO - 8260C TCL4.3 + TMB	8270D, 8270D_SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N		
FBW001_03032022	3/3/2022	9:20	G	W			X	X		pH 7.23
FBS010_03032022	3/3/2022	~~9:20~~ 9:30 KK	G	W			X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	2-18-22 14:04	ELLE	[signature]	3/3/22 09:30	EWI
[signature]	3/3/22 11:00	EWI			
			[signature]	3/4/22 1032	ELLE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.6°C

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Environmental Works, Inc.

Job Number: 410-74987-1

Login Number: 74987
List Number: 1
Creator: Renner, Melissa

List Source: Eurofins Lancaster Laboratories Env, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature 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.	False	Received Trip Blank(s) not listed on COC.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	

Former Tronox/Kerr-McGee Facility - Springfield, Missouri
OFIWP Public Drinking Well Sampling
Data Usability Summary

Level 2 and 4 Data Validation was performed by Environmental Works, Inc. (EWI) on the one (1) data package from Eurofins Laboratories in Lancaster, Pennsylvania, for the analysis of public drinking water well samples collected March 3rd , 2022. The data package group number was 410-74987.

Intended Use of Data: The intended use is data validation and to provide QAQC Review and an evaluation as to whether data quality objectives (DQOs) were meet related to data obtained during the sampling of the drinking water wells.

Laboratory analysis was requested on the following parameters:

- 8260C-Volatile Organic Compounds (GC/MS)
- 8270D and 8270D SIM – Semi-volatile Organic Compounds

These methods were in accordance with the OFIWP. The results of the data review and validation are discussed in this Data Usability Summary. The data packages were reviewed for the following in accordance with the project Sampling and Analysis Plan (EWI, 2020) and Quality Assurance Project Plan (EWI, 2020):

1. Compare Field Information Forms with Sample Labels and Chains-of-Custody
2. Agreement of Analyses Conducted with Chain-of-Custody Requests
3. Sample Receipt, Holding Times, and Sample Preservation
4. Trip Blanks
5. Laboratory Control Sample (LCS) and LCS Duplicate (LCSD) Recoveries
6. Surrogate Spike Recoveries
7. Quantitation Limits and Sample Results
8. Method Blank Results
9. Equipment Blank
10. Field Blank
11. Lab Comments
12. Field Instrument Calibration
13. Field Sampling Parameters
14. Instrument Calibrations (Initial and Continuing and RRF)
15. Manual Integration
16. Reagent Traceability and Tentative Identification Summary

1) Compare Field Information Forms with Sample Labels and Chains-of-Custody

The sample labels and chains-of-custody form was reviewed to ensure the dates, times, and sample IDs were the same. Discrepancies were found in report title on the data package and subsequently a revised report was submitted. This revision did not affect data quality.

2) Agreement of Analyses Conducted with Chain-of-Custody Requests

Analytical reports received from the laboratory were checked against the chain-of-custody request for all samples. No issues identified.

3) Sample Receipt, Holding Times, and Sample Preservation

The cooler sent to the laboratory arrived inside acceptable temperature range of 4 degree centigrade (+ 2 degrees and not frozen). There were no other issues with the samples upon receipt by the lab. All samples were properly preserved and were analyzed within the method specified holding time.

4) Trip Blanks

For this sampling event, trip blanks were prepared by the laboratory, transported with the sample bottles to the Facility, kept in sample coolers during the sampling event, and returned unopened to the laboratory for quality control analysis. The samples were sent with a trip blank; however, the trip blank was not recorded on COC. The lab acknowledgement noted the trip blanks were inside cooler with no issues noted. The trip blank sample was analyzed for target VOCs and there were no detections.

5) Laboratory Control Sample/Laboratory Control Sample Duplicate Recoveries

All target analytes were spiked into control samples and reported for the required LCS/LCSD analyses; The LCS and LCSD results outside the QC acceptance criteria and effect on data usability are discussed in the narratives of the Level 2 data evaluation checklists and referenced on the Level 4 data evaluation checklists. Lab reports are flagged with data qualifiers where data usability is brought into question. Because results bias high and all results affected were non-detections, all data is validated.

6) Surrogate Spike Recoveries

Surrogate recovery was out of limits, but data was confirmed because it was not attributed to dilution or otherwise noted on the Analysis Report. This does not affect usability of the data.

No further action was taken by lab. These findings do not indicate any usability concerns.

7) Quantitation Limits and Sample Results

There were no dilutions warranted for analyses, so no changes to quantification limits were warranted for any other analyses.

8) Method Blank Results

Lab method blank 410-231594/1-A in Batch 231826 had Diethylphthalate identified at 0.0828 J. Because that analyte was not detected in either sample; and because Sample results are for this parameter are invalidated in 410-45157 and 410-45058. Lab manager stated "The other instrument that is running the same method sits right next to the instrument where the blank in

question ran. That other instrument did not have any positive detections for phthalates in the same time frame." Based on comments and no detections of Diethylphthalate there was no impact to data acceptance.

9) Equipment Blank Sample Results

Equipment blanks were not warranted as no sampling equipment was needed. Water collected at City taps.

10) Field Blank Sample Results

Field blanks are used to identify if ambient contamination is entering the samples during the sampling process. None were collected for this event at City water wells, nor does City collect them during their normally scheduled events.

11) Lab Comments

A summary of lab narrative/comments is shown below in bullets in the Summary below.

12) Instrument Calibration

City conducted pH tests as samples were collected and shared their data.

13) Field Sampling Parameters

During sampling activities, EWI filled containers as split samples with City from their taps.

14) Instrument Calibrations (Initial and Continuing and RRF)

The Level 4 evaluation checklists outline the various laboratory Forms within the Level 4 Data Packages. For calibration, the initial and continuing calibrations were reviewed along with relative response factors, response curves, and retention times: most be the same data in each lab package. Various data packages had narrative explanations from the lab regarding issues within initial calibration and/or continuing calibration within VOAs and Semi-VOAs along with the any effect on usability. Those descriptions can be found on Level QAQC review sheets and summarized below for each lab package (Summary).

15) Manual Integration

The data packages have large sections of calibration related manual integration and chromatograms. Review of that data found no issues that would affect data usability.

16) Reagent Traceability and Tentative Identification Summary

The data packages provide source data and quality and the tentative identification chromatograms. There were no issues identified with reagent source or standards testing.

Usability Summary

Based on the QAQC Data Review data package is listed below with a summary that all data was accepted, or an explanation of data usability concerns.

- 410-74987:
- GC/MS VOA - Method 8260C: The continuing calibration verification (CCV) associated with batch 410-233094 recovered above the upper control limit for 2-Butanone, 2-Hexanone and 4-Methyl-2-pentanone. Non-detections of the affected analytes are reported. Any detections are considered estimated. None of these are chemicals of concern, so data accepted.
- GC/MS Semi VOA - Method 8270D_SIM: The continuing calibration verification (CCV) associated with batch 410-231826 recovered above the upper control limit for Dibenz(a,h)anthracene and N-Nitrosodimethylamine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.
- Lab method blank 410-231594/1-A in Batch 231826 had Diethylphthalate identified at 0.0828 J. Di-n-butyl phthalate was identified in FBW001_03032022 at 0.051 J.
- EWI reached out to eurofins to explain if these could both be lab contaminant? Specifically, EWI asked if these are both related as one could have converted to other in a breakdown during the actual analysis. Lab manager stated "The other instrument that is running the same method sits right next to the instrument where the blank in question ran. That other instrument did not have any positive detections for phthalates in the same time frame." Also, the lab checked the other samples in the analytical run (20 injections including all samples on the prep batch) and there were no detections of di-n-butylphthalate above the MDL.
- Based on comments and no detections of Diethylphthalate there was no impact to data acceptance. All results are validated and usable as reported.