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ANALYTICAL REPORT

PREPARED FOR

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Picatinny Arsenal
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JOB DESCRIPTION

RVAAP FWGW

JOB NUMBER

280-191168-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

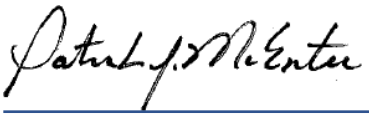
See page two for job notes and contact information.

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
280-191168-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

Receipt
The samples were received on 5/8/2024 10:25 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.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Method 8260D - Volatile Organic Compounds (GC/MS)
Samples LL10mw-003-240401-GW (280-191168-5) and FWGTB-240401-TB002 (280-191168-6) were analyzed for Volatile Organic Compounds (GC/MS). The samples were analyzed on 5/18/2024.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 280-653922. LL10mw-003-240401-GW (280-191168-5) and FWGTB-240401-TB002 (280-191168-6)

Method 8330B - Nitroaromatics and Nitramines (HPLC)
Samples FWGmw-021-240401-GW (280-191168-2), FWGmw-024-240401-GW (280-191168-3) and LL3mw-245-240401-GW (280-191168-4) were analyzed for Nitroaromatics and Nitramines (HPLC). The samples were prepared on 5/10/2024 and 5/17/2024 and analyzed on 5/11/2024, 5/17/2024 and 5/18/2024.

In preparation batch 280-652898, the following samples required filtration to reduce matrix interferences: FWGmw-021-240401-GW (280-191168-2) and FWGmw-024-240401-GW (280-191168-3). In method 3535/8330B_DOD5.

In preparation batch 280-652898, the following sample: FWGmw-024-240401-GW (280-191168-3) was decanted prior to preparation due to insufficient headspace for the addition of sodium chloride. In method 3535/8330B_DOD5.

The laboratory control sample and laboratory control sample duplicate (LCS/LCSD) for preparation batch 280-652898 and analytical batch 280-653063 recovered outside control limits for the multiple analytes. See QC report for detail. The associated samples are impacted: FWGmw-021-240401-GW (280-191168-2), FWGmw-024-240401-GW (280-191168-3) and LL3mw-245-240401-GW (280-191168-4). The samples were sent back for re-extraction and reanalysis.

In preparation batch 280-653565, the following samples were re-prepared outside of preparation holding time due to low LCS: FWGmw-021-240401-GW (280-191168-2), FWGmw-024-240401-GW (280-191168-3) and LL3mw-245-240401-GW (280-191168-4).

In preparation batch 280-653565, the following samples: FWGmw-021-240401-GW (280-191168-2), FWGmw-024-240401-GW (280-191168-3) and LL3mw-245-240401-GW (280-191168-4) were decanted prior to preparation as sample bottles contained insufficient headspace for the addition of sodium chloride. Method 3535/8330B_DOD5.

In preparation batch 280-653565, the following samples required filtration to reduce matrix interferences: FWGmw-021-240401-GW (280-191168-2), FWGmw-024-240401-GW (280-191168-3) and LL3mw-245-240401-GW

(280-191168-4).

In preparation batch 280-653565, insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD), so an LCS/LCSD was prepared instead. FWGmw-021-240401-GW (280-191168-2), FWGmw-024-240401-GW (280-191168-3) and LL3mw-245-240401-GW (280-191168-4)

The following samples in preparation batch 280-652898 and 280-653565 and analytical batch 280-653063 were re-extracted due to low LCS/LCSD recovery and/or low surrogate recovery in samples: FWGmw-021-240401-GW (280-191168-2), FWGmw-024-240401-GW (280-191168-3) and LL3mw-245-240401-GW (280-191168-4). See QC report for detail. LCS/LCSD recovery and surrogate recovery are within control limit in the re-extraction. Both original and re-extraction are reported.

The %RPD between the primary and confirmation column exceeded 40% for 2-Amino-4,6-dinitrotoluene for the following sample: FWGmw-021-240401-GW (280-191168-2) in preparation batch 280-653565 and analytical batch 280-653871. The results from both columns has been qualified and reported in accordance with the laboratory's QAS.

Method 9056 - Anions, Ion Chromatography
Sample FWGmw-018-240401-GW (280-191168-1) was analyzed for Anions, Ion Chromatography. The sample was analyzed on 5/8/2024.

Detection Summary

Client: Leidos, Inc.
Project/Site: RVAAP FWGW

Job ID: 280-191168-1

Client Sample ID: FWGmw-018-240401-GW — Lab Sample ID: 280-191168-1

No Detections.

Client Sample ID: FWGmw-021-240401-GW — Lab Sample ID: 280-191168-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
2-Amino-4,6-dinitrotoluene - RE	0.33	H J1	0.12	0.11	0.057	ug/L	1		8330B	Total/NA
2-Amino-4,6-dinitrotoluene - RE	0.13	H M J1	0.12	0.11	0.057	ug/L	1		8330B	Total/NA

Client Sample ID: FWGmw-024-240401-GW — Lab Sample ID: 280-191168-3

No Detections.

Client Sample ID: LL3mw-245-240401-GW — Lab Sample ID: 280-191168-4

No Detections.

Client Sample ID: LL10mw-003-240401-GW — Lab Sample ID: 280-191168-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	1.7		1.0	0.50	0.23	ug/L	1		8260D	Total/NA

Client Sample ID: FWGTB-240401-TB002 — Lab Sample ID: 280-191168-6

No Detections.

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: LL10mw-003-240401-GW
Date Collected: 05/07/24 14:55
Date Received: 05/08/24 10:25

Lab Sample ID: 280-191168-5
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon tetrachloride	**1.7**		1.0	0.50	0.23	ug/L		05/18/24 02:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*81 - 118*		*05/18/24 02:12*	*1*
4-Bromofluorobenzene (Surr)	*94*		*85 - 114*		*05/18/24 02:12*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 119*		*05/18/24 02:12*	*1*
Toluene-d8 (Surr)	*92*		*89 - 112*		*05/18/24 02:12*	*1*

Client Sample ID: FWGTB-240401-TB002
Date Collected: 05/07/24 14:00
Date Received: 05/08/24 10:25

Lab Sample ID: 280-191168-6
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon tetrachloride	0.50	U	1.0	0.50	0.23	ug/L		05/18/24 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*81 - 118*		*05/18/24 00:08*	*1*
4-Bromofluorobenzene (Surr)	*94*		*85 - 114*		*05/18/24 00:08*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 119*		*05/18/24 00:08*	*1*
Toluene-d8 (Surr)	*93*		*89 - 112*		*05/18/24 00:08*	*1*

Method: EPA 8330B - Nitroaromatics and Nitramines (HPLC)

Client Sample ID: FWGmw-021-240401-GW
Date Collected: 05/07/24 11:14
Date Received: 05/08/24 10:25

Lab Sample ID: 280-191168-2
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.21	U Q	0.22	0.21	0.089	ug/L		05/11/24 22:42	1
1,3-Dinitrobenzene	0.11	U M Q	0.12	0.11	0.039	ug/L		05/11/24 18:20	1
2,4,6-Trinitrotoluene	0.11	U Q	0.12	0.11	0.047	ug/L		05/11/24 18:20	1
2,4-Dinitrotoluene	0.084	U M Q	0.11	0.084	0.029	ug/L		05/11/24 18:20	1
2,6-Dinitrotoluene	0.084	U Q	0.11	0.084	0.042	ug/L		05/11/24 18:20	1
2-Amino-4,6-dinitrotoluene	0.11	U Q	0.12	0.11	0.053	ug/L		05/11/24 18:20	1
2-Nitrotoluene	0.21	U Q	0.22	0.21	0.090	ug/L		05/11/24 18:20	1
3-Nitrotoluene	0.37	U Q	0.42	0.37	0.21	ug/L		05/11/24 18:20	1
4-Amino-2,6-dinitrotoluene	0.13	U Q	0.16	0.13	0.061	ug/L		05/11/24 18:20	1
4-Nitrotoluene	0.42	U Q	0.43	0.42	0.11	ug/L		05/11/24 18:20	1
HMX	0.21	U Q	0.22	0.21	0.092	ug/L		05/11/24 18:20	1
Nitrobenzene	0.21	U Q	0.22	0.21	0.096	ug/L		05/11/24 18:20	1
Nitroglycerin	2.1	U Q	2.2	2.1	0.97	ug/L		05/11/24 18:20	1
PETN	1.1	U Q	1.2	1.1	0.47	ug/L		05/11/24 18:20	1
RDX	0.21	U M Q	0.22	0.21	0.054	ug/L		05/11/24 22:42	1
Tetryl	0.11	U Q	0.12	0.11	0.033	ug/L		05/11/24 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*58*	*Q*	*83 - 119*	*05/10/24 10:58*	*05/11/24 18:20*	*1*
1,2-Dinitrobenzene	*60*	*Q*	*83 - 119*	*05/10/24 10:58*	*05/11/24 22:42*	*1*

Method: EPA 8330B - Nitroaromatics and Nitramines (HPLC)

Client Sample ID: FWGmw-024-240401-GW
Date Collected: 05/07/24 13:08
Date Received: 05/08/24 10:25

Lab Sample ID: 280-191168-3
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.21	U M Q	0.22	0.21	0.088	ug/L		05/11/24 18:43	1
1,3-Dinitrobenzene	0.10	U Q	0.11	0.10	0.038	ug/L		05/11/24 18:43	1
2,4,6-Trinitrotoluene	0.10	U Q	0.11	0.10	0.047	ug/L		05/11/24 18:43	1
2,4-Dinitrotoluene	0.083	U Q	0.10	0.083	0.029	ug/L		05/11/24 18:43	1
2,6-Dinitrotoluene	0.083	U Q	0.10	0.083	0.042	ug/L		05/11/24 18:43	1
2-Amino-4,6-dinitrotoluene	0.10	U Q	0.11	0.10	0.053	ug/L		05/11/24 18:43	1
2-Nitrotoluene	0.21	U Q	0.22	0.21	0.089	ug/L		05/11/24 18:43	1
3-Nitrotoluene	0.36	U Q	0.42	0.36	0.20	ug/L		05/11/24 18:43	1
4-Amino-2,6-dinitrotoluene	0.12	U Q	0.16	0.12	0.060	ug/L		05/11/24 18:43	1
4-Nitrotoluene	0.42	U Q	0.43	0.42	0.10	ug/L		05/11/24 18:43	1
HMX	0.21	U M Q	0.22	0.21	0.091	ug/L		05/11/24 18:43	1
Nitrobenzene	0.21	U Q	0.22	0.21	0.095	ug/L		05/11/24 18:43	1
Nitroglycerin	2.1	U Q	2.2	2.1	0.96	ug/L		05/11/24 18:43	1
PETN	1.0	U Q	1.1	1.0	0.47	ug/L		05/11/24 18:43	1
RDX	0.21	U Q	0.22	0.21	0.054	ug/L		05/11/24 18:43	1
Tetryl	0.10	U Q	0.11	0.10	0.033	ug/L		05/11/24 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*49*	*M Q*	*83 - 119*	*05/10/24 10:58*	*05/11/24 18:43*	*1*

Client Sample ID: LL3mw-245-240401-GW
Date Collected: 05/07/24 14:10
Date Received: 05/08/24 10:25

Lab Sample ID: 280-191168-4
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.22	U M	0.23	0.22	0.091	ug/L		05/11/24 19:29	1
1,3-Dinitrobenzene	0.11	U	0.12	0.11	0.040	ug/L		05/11/24 19:29	1
2,4,6-Trinitrotoluene	0.11	U	0.12	0.11	0.048	ug/L		05/11/24 19:29	1
2,4-Dinitrotoluene	0.086	U	0.11	0.086	0.030	ug/L		05/11/24 19:29	1
2,6-Dinitrotoluene	0.086	U	0.11	0.086	0.043	ug/L		05/11/24 19:29	1
2-Amino-4,6-dinitrotoluene	0.11	U	0.12	0.11	0.055	ug/L		05/11/24 19:29	1
2-Nitrotoluene	0.22	U Q	0.23	0.22	0.092	ug/L		05/11/24 19:29	1
3-Nitrotoluene	0.38	U Q	0.43	0.38	0.21	ug/L		05/11/24 19:29	1
4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.062	ug/L		05/11/24 19:29	1
4-Nitrotoluene	0.43	U Q	0.44	0.43	0.11	ug/L		05/11/24 19:29	1
HMX	0.22	U M	0.23	0.22	0.094	ug/L		05/11/24 19:29	1
Nitrobenzene	0.22	U	0.23	0.22	0.098	ug/L		05/11/24 19:29	1
Nitroglycerin	2.2	U	2.3	2.2	0.99	ug/L		05/11/24 19:29	1
PETN	1.1	U	1.2	1.1	0.48	ug/L		05/11/24 19:29	1
RDX	0.22	U	0.23	0.22	0.055	ug/L		05/11/24 19:29	1
Tetryl	0.11	U	0.12	0.11	0.034	ug/L		05/11/24 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*96*	*M*	*83 - 119*	*05/10/24 10:58*	*05/11/24 19:29*	*1*

Method: EPA 8330B - Nitroaromatics and Nitramines (HPLC) - RE

Client Sample ID: FWGmw-021-240401-GW
Date Collected: 05/07/24 11:14
Date Received: 05/08/24 10:25

Lab Sample ID: 280-191168-2
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.22	U M H	0.24	0.22	0.095	ug/L		05/18/24 05:09	1

Method: EPA 8330B - Nitroaromatics and Nitramines (HPLC) - RE (Continued)

Client Sample ID: FWGmw-021-240401-GW
Date Collected: 05/07/24 11:14
Date Received: 05/08/24 10:25

Lab Sample ID: 280-191168-2
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3-Dinitrobenzene	0.11	U M H	0.12	0.11	0.042	ug/L		05/18/24 05:09	1
2,4,6-Trinitrotoluene	0.11	U H	0.12	0.11	0.051	ug/L		05/18/24 05:09	1
2,4-Dinitrotoluene	0.090	U M H	0.11	0.090	0.031	ug/L		05/18/24 05:09	1
2,6-Dinitrotoluene	0.090	U H	0.11	0.090	0.045	ug/L		05/18/24 05:09	1
2-Amino-4,6-dinitrotoluene	**0.33**	**H J1**	0.12	0.11	0.057	ug/L		05/17/24 23:04	1
2-Amino-4,6-dinitrotoluene	**0.13**	**H M J1**	0.12	0.11	0.057	ug/L		05/18/24 05:09	1
2-Nitrotoluene	0.22	U M H	0.24	0.22	0.096	ug/L		05/18/24 05:09	1
3-Nitrotoluene	0.39	U H	0.45	0.39	0.22	ug/L		05/18/24 05:09	1
4-Amino-2,6-dinitrotoluene	0.13	U H	0.17	0.13	0.065	ug/L		05/17/24 23:04	1
4-Nitrotoluene	0.45	U H	0.46	0.45	0.11	ug/L		05/18/24 05:09	1
HMX	0.22	U H	0.24	0.22	0.099	ug/L		05/18/24 05:09	1
Nitrobenzene	0.22	U H	0.24	0.22	0.10	ug/L		05/18/24 05:09	1
Nitroglycerin	2.2	U H	2.4	2.2	1.0	ug/L		05/18/24 05:09	1
PETN	1.1	U H	1.2	1.1	0.50	ug/L		05/18/24 05:09	1
RDX	0.22	U M H	0.24	0.22	0.058	ug/L		05/17/24 23:04	1
Tetryl	0.11	U H	0.12	0.11	0.036	ug/L		05/18/24 05:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*103*		*83 - 119*	*05/17/24 13:10*	*05/17/24 23:04*	*1*
1,2-Dinitrobenzene	*105*		*83 - 119*	*05/17/24 13:10*	*05/18/24 05:09*	*1*

Client Sample ID: FWGmw-024-240401-GW
Date Collected: 05/07/24 13:08
Date Received: 05/08/24 10:25

Lab Sample ID: 280-191168-3
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.22	U M H	0.23	0.22	0.093	ug/L		05/18/24 05:32	1
1,3-Dinitrobenzene	0.11	U M H	0.12	0.11	0.041	ug/L		05/18/24 05:32	1
2,4,6-Trinitrotoluene	0.11	U H	0.12	0.11	0.050	ug/L		05/18/24 05:32	1
2,4-Dinitrotoluene	0.088	U H	0.11	0.088	0.030	ug/L		05/18/24 05:32	1
2,6-Dinitrotoluene	0.088	U H	0.11	0.088	0.044	ug/L		05/18/24 05:32	1
2-Amino-4,6-dinitrotoluene	0.11	U H	0.12	0.11	0.056	ug/L		05/18/24 05:32	1
2-Nitrotoluene	0.22	U H	0.23	0.22	0.095	ug/L		05/18/24 05:32	1
3-Nitrotoluene	0.39	U H	0.44	0.39	0.22	ug/L		05/18/24 05:32	1
4-Amino-2,6-dinitrotoluene	0.13	U H	0.17	0.13	0.064	ug/L		05/18/24 05:32	1
4-Nitrotoluene	0.44	U H	0.45	0.44	0.11	ug/L		05/18/24 05:32	1
HMX	0.22	U M H	0.23	0.22	0.097	ug/L		05/18/24 05:32	1
Nitrobenzene	0.22	U H	0.23	0.22	0.10	ug/L		05/18/24 05:32	1
Nitroglycerin	2.2	U H	2.3	2.2	1.0	ug/L		05/18/24 05:32	1
PETN	1.1	U H	1.2	1.1	0.49	ug/L		05/18/24 05:32	1
RDX	0.22	U H	0.23	0.22	0.057	ug/L		05/18/24 05:32	1
Tetryl	0.11	U H	0.12	0.11	0.035	ug/L		05/18/24 05:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*93*	*M*	*83 - 119*	*05/17/24 13:10*	*05/18/24 05:32*	*1*

Client Sample ID: LL3mw-245-240401-GW
Date Collected: 05/07/24 14:10
Date Received: 05/08/24 10:25

Lab Sample ID: 280-191168-4
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.23	U M H	0.24	0.23	0.096	ug/L		05/18/24 06:18	1

Method: EPA 8330B - Nitroaromatics and Nitramines (HPLC) - RE (Continued)

Client Sample ID: LL3mw-245-240401-GW
Lab Sample ID: 280-191168-4
Date Collected: 05/07/24 14:10
Matrix: Water
Date Received: 05/08/24 10:25

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3-Dinitrobenzene	0.11	U M H	0.13	0.11	0.042	ug/L		05/18/24 06:18	1
2,4,6-Trinitrotoluene	0.11	U H	0.13	0.11	0.051	ug/L		05/18/24 06:18	1
2,4-Dinitrotoluene	0.092	U H	0.11	0.092	0.031	ug/L		05/18/24 06:18	1
2,6-Dinitrotoluene	0.092	U H	0.11	0.092	0.046	ug/L		05/18/24 06:18	1
2-Amino-4,6-dinitrotoluene	0.11	U H	0.13	0.11	0.058	ug/L		05/18/24 06:18	1
2-Nitrotoluene	0.23	U H	0.24	0.23	0.098	ug/L		05/18/24 06:18	1
3-Nitrotoluene	0.40	U H	0.46	0.40	0.22	ug/L		05/18/24 06:18	1
4-Amino-2,6-dinitrotoluene	0.14	U H	0.17	0.14	0.066	ug/L		05/18/24 06:18	1
4-Nitrotoluene	0.46	U H	0.47	0.46	0.11	ug/L		05/18/24 06:18	1
HMX	0.23	U M H	0.24	0.23	0.10	ug/L		05/18/24 06:18	1
Nitrobenzene	0.23	U H	0.24	0.23	0.10	ug/L		05/18/24 06:18	1
Nitroglycerin	2.3	U H	2.4	2.3	1.1	ug/L		05/18/24 06:18	1
PETN	1.1	U H	1.3	1.1	0.51	ug/L		05/18/24 06:18	1
RDX	0.23	U H	0.24	0.23	0.059	ug/L		05/18/24 06:18	1
Tetryl	0.11	U H	0.13	0.11	0.036	ug/L		05/18/24 06:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*100*	*M*	*83 - 119*	*05/17/24 13:10*	*05/18/24 06:18*	*1*

General Chemistry

Client Sample ID: FWGmw-018-240401-GW
Lab Sample ID: 280-191168-1
Date Collected: 05/07/24 09:25
Matrix: Water
Date Received: 05/08/24 10:25

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate as N (SW846 9056)	0.20	U	0.50	0.20	0.090	mg/L		05/08/24 21:48	1

Default Detection Limits

Client: Leidos, Inc.
Project/Site: RVAAP FWGW

Job ID: 280-191168-1

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

Analyte	LOQ	DL	Units
Carbon tetrachloride	1.0	0.23	ug/L

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Prep: 3535

Analyte	LOQ	DL	Units
1,3,5-Trinitrobenzene	0.21	0.084	ug/L
1,3-Dinitrobenzene	0.11	0.037	ug/L
2,4,6-Trinitrotoluene	0.11	0.045	ug/L
2,4-Dinitrotoluene	0.10	0.027	ug/L
2,6-Dinitrotoluene	0.10	0.040	ug/L
2-Amino-4,6-dinitrotoluene	0.11	0.051	ug/L
2-Nitrotoluene	0.21	0.086	ug/L
3-Nitrotoluene	0.40	0.20	ug/L
4-Amino-2,6-dinitrotoluene	0.15	0.058	ug/L
4-Nitrotoluene	0.41	0.10	ug/L
HMX	0.21	0.088	ug/L
Nitrobenzene	0.21	0.091	ug/L
Nitroglycerin	2.1	0.92	ug/L
PETN	1.1	0.45	ug/L
RDX	0.21	0.052	ug/L
Tetryl	0.11	0.032	ug/L

General Chemistry

Analyte	LOQ	DL	Units
Nitrate as N	0.50	0.090	mg/L

Surrogate Summary

Client: Leidos, Inc.
Project/Site: RVAAP FWGW

Job ID: 280-191168-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(81-118)	(85-114)	(80-119)	(89-112)
280-191168-5	LL10mw-003-240401-GW	88	94	106	92
280-191168-6	FWGTB-240401-TB002	85	94	107	93
LCS 280-653922/4	Lab Control Sample	85	89	109	96
LCSD 280-653922/5	Lab Control Sample Dup	83	88	109	95
MB 280-653922/9	Method Blank	85	95	100	91

Surrogate Legend

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

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		12DNB1
Lab Sample ID	Client Sample ID	(83-119)
280-191168-2	FWGmw-021-240401-GW	58 Q
280-191168-2 - RE	FWGmw-021-240401-GW	105
280-191168-3	FWGmw-024-240401-GW	49 M Q
280-191168-3 - RE	FWGmw-024-240401-GW	93 M
280-191168-4	LL3mw-245-240401-GW	96 M
280-191168-4 - RE	LL3mw-245-240401-GW	100 M
LCS 280-652898/2-A	Lab Control Sample	90
LCS 280-653565/2-A	Lab Control Sample	104
LCSD 280-652898/3-A	Lab Control Sample Dup	93
LCSD 280-653565/3-A	Lab Control Sample Dup	95
MB 280-652898/1-A	Method Blank	97 M
MB 280-653565/1-A	Method Blank	98

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		12DNB2
Lab Sample ID	Client Sample ID	(83-119)
280-191168-2	FWGmw-021-240401-GW	60 Q
280-191168-2 - RE	FWGmw-021-240401-GW	103

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

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

Lab Sample ID: MB 280-653922/9
Matrix: Water
Analysis Batch: 653922

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon tetrachloride	0.50	U	1.0	0.50	0.23	ug/L		05/17/24 21:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*81 - 118*		*05/17/24 21:43*	*1*
4-Bromofluorobenzene (Surr)	*95*		*85 - 114*		*05/17/24 21:43*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 119*		*05/17/24 21:43*	*1*
Toluene-d8 (Surr)	*91*		*89 - 112*		*05/17/24 21:43*	*1*

Lab Sample ID: LCS 280-653922/4
Matrix: Water
Analysis Batch: 653922

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon tetrachloride			50.0	54.7		ug/L		109	72 - 136		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*81 - 118*
4-Bromofluorobenzene (Surr)	*89*		*85 - 114*
Dibromofluoromethane (Surr)	*109*		*80 - 119*
Toluene-d8 (Surr)	*96*		*89 - 112*

Lab Sample ID: LCSD 280-653922/5
Matrix: Water
Analysis Batch: 653922

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
Carbon tetrachloride			50.0	53.7		ug/L		107	72 - 136	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*81 - 118*
4-Bromofluorobenzene (Surr)	*88*		*85 - 114*
Dibromofluoromethane (Surr)	*109*		*80 - 119*
Toluene-d8 (Surr)	*95*		*89 - 112*

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-652898/1-A
Matrix: Water
Analysis Batch: 653063

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 652898

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.20	U M	0.21	0.20	0.084	ug/L		05/11/24 15:16	1
1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037	ug/L		05/11/24 15:16	1
2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045	ug/L		05/11/24 15:16	1
2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027	ug/L		05/11/24 15:16	1
2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040	ug/L		05/11/24 15:16	1
2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051	ug/L		05/11/24 15:16	1
2-Nitrotoluene	0.20	U	0.21	0.20	0.086	ug/L		05/11/24 15:16	1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: MB 280-652898/1-A
Matrix: Water
Analysis Batch: 653063

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 652898

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
3-Nitrotoluene	0.35	U	0.40	0.35	0.20	ug/L		05/11/24 15:16	1
4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058	ug/L		05/11/24 15:16	1
4-Nitrotoluene	0.40	U	0.41	0.40	0.10	ug/L		05/11/24 15:16	1
HMX	0.20	U	0.21	0.20	0.088	ug/L		05/11/24 15:16	1
Nitrobenzene	0.20	U	0.21	0.20	0.091	ug/L		05/11/24 15:16	1
Nitroglycerin	2.0	U	2.1	2.0	0.92	ug/L		05/11/24 15:16	1
PETN	1.0	U	1.1	1.0	0.45	ug/L		05/11/24 15:16	1
RDX	0.20	U	0.21	0.20	0.052	ug/L		05/11/24 15:16	1
Tetryl	0.10	U	0.11	0.10	0.032	ug/L		05/11/24 15:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*97*	*M*	*83 - 119*	*05/10/24 10:58*	*05/11/24 15:16*	*1*

Lab Sample ID: LCS 280-652898/2-A
Matrix: Water
Analysis Batch: 653063

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 652898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trinitrobenzene	2.00	2.02		ug/L		101	73 - 125
1,3-Dinitrobenzene	2.00	1.79		ug/L		90	78 - 120
2,4,6-Trinitrotoluene	2.00	1.76		ug/L		88	71 - 123
2,4-Dinitrotoluene	2.00	1.67		ug/L		84	78 - 120
2,6-Dinitrotoluene	2.00	1.70		ug/L		85	77 - 127
2-Amino-4,6-dinitrotoluene	2.00	1.72		ug/L		86	79 - 120
2-Nitrotoluene	2.00	1.28	Q	ug/L		64	70 - 127
3-Nitrotoluene	2.00	1.24	Q	ug/L		62	73 - 125
4-Amino-2,6-dinitrotoluene	2.00	1.76		ug/L		88	76 - 125
4-Nitrotoluene	2.00	1.24	Q	ug/L		62	71 - 127
HMX	2.00	1.77	M	ug/L		89	65 - 135
Nitrobenzene	2.00	1.51		ug/L		75	65 - 134
Nitroglycerin	20.0	19.4		ug/L		97	74 - 127
PETN	20.0	20.1		ug/L		101	73 - 127
RDX	2.00	1.78		ug/L		89	68 - 130
Tetryl	2.00	1.74		ug/L		87	64 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dinitrobenzene	*90*		*83 - 119*

Lab Sample ID: LCSD 280-652898/3-A
Matrix: Water
Analysis Batch: 653063

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 652898

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,3,5-Trinitrobenzene	2.00	2.05		ug/L		102	73 - 125	2	20
1,3-Dinitrobenzene	2.00	1.85		ug/L		92	78 - 120	3	20
2,4,6-Trinitrotoluene	2.00	1.81		ug/L		91	71 - 123	3	20
2,4-Dinitrotoluene	2.00	1.77		ug/L		88	78 - 120	5	20
2,6-Dinitrotoluene	2.00	1.78		ug/L		89	77 - 127	5	20

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: LCSD 280-652898/3-A
Matrix: Water
Analysis Batch: 653063

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 652898

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Amino-4,6-dinitrotoluene			2.00	1.81		ug/L		91	79 - 120	5	20
2-Nitrotoluene			2.00	1.40		ug/L		70	70 - 127	8	20
3-Nitrotoluene			2.00	1.31	Q	ug/L		65	73 - 125	5	20
4-Amino-2,6-dinitrotoluene			2.00	1.86		ug/L		93	76 - 125	5	20
4-Nitrotoluene			2.00	1.33	Q	ug/L		67	71 - 127	7	20
HMX			2.00	1.74	M	ug/L		87	65 - 135	2	20
Nitrobenzene			2.00	1.63		ug/L		81	65 - 134	8	20
Nitroglycerin			20.0	19.6		ug/L		98	74 - 127	1	20
PETN			20.0	20.4		ug/L		102	73 - 127	1	20
RDX			2.00	1.78		ug/L		89	68 - 130	0	20
Tetryl			2.00	1.83		ug/L		92	64 - 128	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dinitrobenzene	*93*		*83 - 119*

Lab Sample ID: MB 280-653565/1-A
Matrix: Water
Analysis Batch: 653871

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 653565

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.20	U	0.21	0.20	0.084	ug/L		05/18/24 02:06	1
1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037	ug/L		05/18/24 02:06	1
2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045	ug/L		05/18/24 02:06	1
2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027	ug/L		05/18/24 02:06	1
2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040	ug/L		05/18/24 02:06	1
2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051	ug/L		05/18/24 02:06	1
2-Nitrotoluene	0.20	U	0.21	0.20	0.086	ug/L		05/18/24 02:06	1
3-Nitrotoluene	0.35	U	0.40	0.35	0.20	ug/L		05/18/24 02:06	1
4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058	ug/L		05/18/24 02:06	1
4-Nitrotoluene	0.40	U	0.41	0.40	0.10	ug/L		05/18/24 02:06	1
HMX	0.20	U	0.21	0.20	0.088	ug/L		05/18/24 02:06	1
Nitrobenzene	0.20	U	0.21	0.20	0.091	ug/L		05/18/24 02:06	1
Nitroglycerin	2.0	U	2.1	2.0	0.92	ug/L		05/18/24 02:06	1
PETN	1.0	U	1.1	1.0	0.45	ug/L		05/18/24 02:06	1
RDX	0.20	U	0.21	0.20	0.052	ug/L		05/18/24 02:06	1
Tetryl	0.10	U	0.11	0.10	0.032	ug/L		05/18/24 02:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*98*		*83 - 119*	*05/17/24 13:10*	*05/18/24 02:06*	*1*

Lab Sample ID: LCS 280-653565/2-A
Matrix: Water
Analysis Batch: 653871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 653565

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,3,5-Trinitrobenzene			2.00	2.12		ug/L		106	73 - 125		
1,3-Dinitrobenzene			2.00	2.00		ug/L		100	78 - 120		
2,4,6-Trinitrotoluene			2.00	1.95		ug/L		98	71 - 123		

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: LCS 280-653565/2-A
Matrix: Water
Analysis Batch: 653871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 653565

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4-Dinitrotoluene			2.00	1.95		ug/L		97	78 - 120		
2,6-Dinitrotoluene			2.00	1.93		ug/L		97	77 - 127		
2-Amino-4,6-dinitrotoluene			2.00	2.00		ug/L		100	79 - 120		
2-Nitrotoluene			2.00	1.63		ug/L		81	70 - 127		
3-Nitrotoluene			2.00	1.62		ug/L		81	73 - 125		
4-Amino-2,6-dinitrotoluene			2.00	2.02		ug/L		101	76 - 125		
4-Nitrotoluene			2.00	1.60		ug/L		80	71 - 127		
HMX			2.00	1.76	M	ug/L		88	65 - 135		
Nitrobenzene			2.00	1.81		ug/L		91	65 - 134		
Nitroglycerin			20.0	20.4		ug/L		102	74 - 127		
PETN			20.0	21.6		ug/L		108	73 - 127		
RDX			2.00	1.91		ug/L		96	68 - 130		
Tetryl			2.00	1.89		ug/L		95	64 - 128		

Surrogate			*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dinitrobenzene			*104*		*83 - 119*

Lab Sample ID: LCSD 280-653565/3-A
Matrix: Water
Analysis Batch: 653871

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 653565

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,3,5-Trinitrobenzene			2.00	2.12		ug/L		106	73 - 125	0	20
1,3-Dinitrobenzene			2.00	1.95		ug/L		97	78 - 120	3	20
2,4,6-Trinitrotoluene			2.00	1.91		ug/L		95	71 - 123	2	20
2,4-Dinitrotoluene			2.00	1.86		ug/L		93	78 - 120	4	20
2,6-Dinitrotoluene			2.00	1.89		ug/L		94	77 - 127	2	20
2-Amino-4,6-dinitrotoluene			2.00	1.88		ug/L		94	79 - 120	6	20
2-Nitrotoluene			2.00	1.49		ug/L		75	70 - 127	9	20
3-Nitrotoluene			2.00	1.47		ug/L		73	73 - 125	10	20
4-Amino-2,6-dinitrotoluene			2.00	1.94		ug/L		97	76 - 125	4	20
4-Nitrotoluene			2.00	1.46		ug/L		73	71 - 127	9	20
HMX			2.00	1.75	M	ug/L		87	65 - 135	1	20
Nitrobenzene			2.00	1.73		ug/L		87	65 - 134	5	20
Nitroglycerin			20.0	20.4		ug/L		102	74 - 127	0	20
PETN			20.0	21.4		ug/L		107	73 - 127	1	20
RDX			2.00	1.90		ug/L		95	68 - 130	1	20
Tetryl			2.00	2.01		ug/L		100	64 - 128	6	20

Surrogate			*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dinitrobenzene			*95*		*83 - 119*

Method: 9056 - Anions, Ion Chromatography

Lab Sample ID: MB 280-652559/6
Matrix: Water
Analysis Batch: 652559

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate as N	0.20	U	0.50	0.20	0.090	mg/L		05/08/24 12:31	1

Lab Sample ID: LCS 280-652559/4
Matrix: Water
Analysis Batch: 652559

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			5.00	4.94		mg/L		99	88 - 111		

Lab Sample ID: LCSD 280-652559/5
Matrix: Water
Analysis Batch: 652559

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
Nitrate as N			5.00	4.92		mg/L		98	88 - 111	0	10

Lab Sample ID: MRL 280-652559/3
Matrix: Water
Analysis Batch: 652559

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			0.500	0.465	J	mg/L		93	50 - 150		

GC/MS VOA

Analysis Batch: 653922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191168-5	LL10mw-003-240401-GW	Total/NA	Water	8260D	
280-191168-6	FWGTB-240401-TB002	Total/NA	Water	8260D	
MB 280-653922/9	Method Blank	Total/NA	Water	8260D	
LCS 280-653922/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-653922/5	Lab Control Sample Dup	Total/NA	Water	8260D	

HPLC/IC

Prep Batch: 652898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191168-2	FWGmw-021-240401-GW	Total/NA	Water	3535	
280-191168-3	FWGmw-024-240401-GW	Total/NA	Water	3535	
280-191168-4	LL3mw-245-240401-GW	Total/NA	Water	3535	
MB 280-652898/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-652898/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 280-652898/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 653063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191168-2	FWGmw-021-240401-GW	Total/NA	Water	8330B	652898
280-191168-3	FWGmw-024-240401-GW	Total/NA	Water	8330B	652898
280-191168-4	LL3mw-245-240401-GW	Total/NA	Water	8330B	652898
MB 280-652898/1-A	Method Blank	Total/NA	Water	8330B	652898
LCS 280-652898/2-A	Lab Control Sample	Total/NA	Water	8330B	652898
LCSD 280-652898/3-A	Lab Control Sample Dup	Total/NA	Water	8330B	652898

Analysis Batch: 653069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191168-2	FWGmw-021-240401-GW	Total/NA	Water	8330B	652898

Prep Batch: 653565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191168-2 - RE	FWGmw-021-240401-GW	Total/NA	Water	3535	
280-191168-3 - RE	FWGmw-024-240401-GW	Total/NA	Water	3535	
280-191168-4 - RE	LL3mw-245-240401-GW	Total/NA	Water	3535	
MB 280-653565/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-653565/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 280-653565/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 653871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191168-2 - RE	FWGmw-021-240401-GW	Total/NA	Water	8330B	653565
280-191168-3 - RE	FWGmw-024-240401-GW	Total/NA	Water	8330B	653565
280-191168-4 - RE	LL3mw-245-240401-GW	Total/NA	Water	8330B	653565
MB 280-653565/1-A	Method Blank	Total/NA	Water	8330B	653565
LCS 280-653565/2-A	Lab Control Sample	Total/NA	Water	8330B	653565
LCSD 280-653565/3-A	Lab Control Sample Dup	Total/NA	Water	8330B	653565

Analysis Batch: 653873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191168-2 - RE	FWGmw-021-240401-GW	Total/NA	Water	8330B	653565

QC Association Summary

Client: Leidos, Inc.
Project/Site: RVAAP FWGW

Job ID: 280-191168-1

General Chemistry

Analysis Batch: 652559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-191168-1	FWGmw-018-240401-GW	Total/NA	Water	9056	
MB 280-652559/6	Method Blank	Total/NA	Water	9056	
LCS 280-652559/4	Lab Control Sample	Total/NA	Water	9056	
LCSD 280-652559/5	Lab Control Sample Dup	Total/NA	Water	9056	
MRL 280-652559/3	Lab Control Sample	Total/NA	Water	9056	

Client Sample ID: FWGmw-018-240401-GW
Lab Sample ID: 280-191168-1

Date Collected: 05/07/24 09:25
Matrix: Water
Date Received: 05/08/24 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9056		1	10 mL	10 mL	652559	05/08/24 21:48	IRC	EET DEN

Client Sample ID: FWGmw-021-240401-GW
Lab Sample ID: 280-191168-2

Date Collected: 05/07/24 11:14
Matrix: Water
Date Received: 05/08/24 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			474.8 mL	5 mL	652898	05/10/24 10:58	AAA	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	653063	05/11/24 18:20	JZ	EET DEN
Total/NA	Prep	3535	RE		444.5 mL	5 mL	653565	05/17/24 13:10	AAA	EET DEN
Total/NA	Analysis	8330B	RE	1	1 mL	1 mL	653871	05/18/24 05:09	JZ	EET DEN
Total/NA	Prep	3535			474.8 mL	5 mL	652898	05/10/24 10:58	AAA	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	653069	05/11/24 22:42	JZ	EET DEN
Total/NA	Prep	3535	RE		444.5 mL	5 mL	653565	05/17/24 13:10	AAA	EET DEN
Total/NA	Analysis	8330B	RE	1	1 mL	1 mL	653873	05/17/24 23:04	JZ	EET DEN

Client Sample ID: FWGmw-024-240401-GW
Lab Sample ID: 280-191168-3

Date Collected: 05/07/24 13:08
Matrix: Water
Date Received: 05/08/24 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			480.2 mL	5 mL	652898	05/10/24 10:58	AAA	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	653063	05/11/24 18:43	JZ	EET DEN
Total/NA	Prep	3535	RE		452 mL	5 mL	653565	05/17/24 13:10	AAA	EET DEN
Total/NA	Analysis	8330B	RE	1	1 mL	1 mL	653871	05/18/24 05:32	JZ	EET DEN

Client Sample ID: LL3mw-245-240401-GW
Lab Sample ID: 280-191168-4

Date Collected: 05/07/24 14:10
Matrix: Water
Date Received: 05/08/24 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			464.3 mL	5 mL	652898	05/10/24 10:58	AAA	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	653063	05/11/24 19:29	JZ	EET DEN
Total/NA	Prep	3535	RE		436.9 mL	5 mL	653565	05/17/24 13:10	AAA	EET DEN
Total/NA	Analysis	8330B	RE	1	1 mL	1 mL	653871	05/18/24 06:18	JZ	EET DEN

Client Sample ID: LL10mw-003-240401-GW
Lab Sample ID: 280-191168-5

Date Collected: 05/07/24 14:55
Matrix: Water
Date Received: 05/08/24 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	653922	05/18/24 02:12	CCF	EET DEN

Lab Chronicle

Client: Leidos, Inc.
Project/Site: RVAAP FWGW

Job ID: 280-191168-1

Client Sample ID: FWGTB-240401-TB002

Date Collected: 05/07/24 14:00
Date Received: 05/08/24 10:25

Lab Sample ID: 280-191168-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	653922	05/18/24 00:08	CCF	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: Leidos, Inc.
Job ID: 280-191168-1
Project/Site: RVAAP FWGW

Laboratory: Eurofins Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-24

Method Summary

Client: Leidos, Inc.
Project/Site: RVAAP FWGW

Job ID: 280-191168-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
8330B	Nitroaromatics and Nitramines (HPLC)	EPA	EET DEN
9056	Anions, Ion Chromatography	SW846	EET DEN
3535	Solid-Phase Extraction (SPE)	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Leidos, Inc.
Job ID: 280-191168-1
Project/Site: RVAAP FWGW

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-191168-1	FWGmw-018-240401-GW	Water	05/07/24 09:25	05/08/24 10:25
280-191168-2	FWGmw-021-240401-GW	Water	05/07/24 11:14	05/08/24 10:25
280-191168-3	FWGmw-024-240401-GW	Water	05/07/24 13:08	05/08/24 10:25
280-191168-4	LL3mw-245-240401-GW	Water	05/07/24 14:10	05/08/24 10:25
280-191168-5	LL10mw-003-240401-GW	Water	05/07/24 14:55	05/08/24 10:25
280-191168-6	FWGTB-240401-TB002	Water	05/07/24 14:00	05/08/24 10:25

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: VMS_G2 Analysis Batch Number: 652556

Lab Sample ID: STD05 280-652556/13 IC Client Sample ID:

Date Analyzed: 05/08/24 23:59 Lab File ID: G2_11763.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.93	Incomplete Integration	Q2ZS	05/09/24 10:50
Chloroethane	2.04	Incomplete Integration	Q2ZS	05/09/24 11:41
Acrylonitrile	3.13	Incomplete Integration	Q2ZS	05/09/24 12:06
1,1-Dichloroethane	3.38	Missed Peak	Q2ZS	05/09/24 10:39
2,2-Dichloropropane	3.78	Missed Peak	Q2ZS	05/09/24 10:39
Chloroform	4.01	Incomplete Integration	Q2ZS	05/09/24 10:45
1,1-Dichloropropene	4.25	Incomplete Integration	Q2ZS	05/09/24 10:41
Carbon tetrachloride	4.25	Incomplete Integration	Q2ZS	05/09/24 10:45
1,2-Dichloroethane	4.43	Incomplete Integration	Q2ZS	05/09/24 10:43
n-Heptane	4.58	Incomplete Integration	Q2ZS	05/09/24 10:43
Trichloroethene	4.88	Incomplete Integration	Q2ZS	05/09/24 10:44
cis-1,3-Dichloropropene	5.62	Incomplete Integration	Q2ZS	05/09/24 10:46
Toluene	5.90	Incomplete Integration	Q2ZS	05/09/24 10:46
trans-1,3-Dichloropropene	6.09	Incomplete Integration	Q2ZS	05/09/24 10:46
1,1,2-Trichloroethane	6.25	Incomplete Integration	Q2ZS	05/09/24 10:47
2-Butanone (MEK)		Incomplete Integration	Q2ZS	05/09/24 12:12
Vinyl acetate		Invalid Compound ID	Q2ZS	05/09/24 12:09

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: VMS_G2 Analysis Batch Number: 652556

Lab Sample ID: STD1 280-652556/14 IC Client Sample ID:

Date Analyzed: 05/09/24 00:19 Lab File ID: G2_11764.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	2.00	Incomplete Integration	Q2ZS	05/09/24 11:02
Acrolein	2.50	Incomplete Integration	Q2ZS	05/09/24 11:02
1,1,2-Trichloro-1,2,2-trifluoroethane	2.55	Incomplete Integration	Q2ZS	05/09/24 11:03
Iodomethane	2.67	Incomplete Integration	Q2ZS	05/09/24 11:52
Methyl acetate	2.81	Incomplete Integration	Q2ZS	05/09/24 12:03
Methylene Chloride	2.89	Incomplete Integration	Q2ZS	05/09/24 11:03
Acrylonitrile	3.10	Incomplete Integration	Q2ZS	05/09/24 11:03
Vinyl acetate	3.40	Incomplete Integration	Q2ZS	05/09/24 12:09
cis-1,2-Dichloroethene	3.78	Incomplete Integration	Q2ZS	05/09/24 11:05
1,1-Dichloropropene	4.25	Incomplete Integration	Q2ZS	05/09/24 11:05
Carbon tetrachloride	4.25	Incomplete Integration	Q2ZS	05/09/24 11:05
Isobutyl alcohol	4.30	Incomplete Integration	Q2ZS	05/09/24 11:11
1,2-Dichloroethane	4.42	Incomplete Integration	Q2ZS	05/09/24 11:11
n-Heptane	4.58	Incomplete Integration	Q2ZS	05/09/24 11:11
trans-1,3-Dichloropropene	6.10	Incomplete Integration	Q2ZS	05/09/24 11:12
Ethyl methacrylate	6.12	Incomplete Integration	Q2ZS	05/09/24 11:12
1-Chlorohexane	7.08	Incomplete Integration	Q2ZS	05/09/24 11:12
Ethylbenzene	7.19	Incomplete Integration	Q2ZS	05/09/24 11:13
Bromobenzene	8.32	Missed Peak	Q2ZS	05/09/24 11:13
1,2,3-Trichloropropane	8.35	Incomplete Integration	Q2ZS	05/09/24 11:14
trans-1,4-Dichloro-2-butene	8.36	Incomplete Integration	Q2ZS	05/09/24 11:13
1,4-Dioxane		Invalid Compound ID	Q2ZS	05/09/24 11:11

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: VMS_G2 Analysis Batch Number: 652556

Lab Sample ID: STD2 280-652556/15 IC Client Sample ID:

Date Analyzed: 05/09/24 00:40 Lab File ID: G2_11765.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	2.00	Incomplete Integration	Q2ZS	05/09/24 11:42
Acrolein	2.50	Incomplete Integration	Q2ZS	05/09/24 10:59
1,1,2-Trichloro-1,2,2-trifluoroethane	2.55	Incomplete Integration	Q2ZS	05/09/24 11:00
Iodomethane	2.66	Incomplete Integration	Q2ZS	05/09/24 11:51
Methyl acetate	2.80	Incomplete Integration	Q2ZS	05/09/24 12:03
Methylene Chloride	2.90	Incomplete Integration	Q2ZS	05/09/24 11:00
Acrylonitrile	3.07	Incomplete Integration	Q2ZS	05/09/24 12:05
Vinyl acetate	3.39	Incomplete Integration	Q2ZS	05/09/24 12:08
Isobutyl alcohol	4.29	Incomplete Integration	Q2ZS	05/09/24 11:01
1,4-Dioxane	5.15	Incomplete Integration	Q2ZS	05/09/24 11:01

Lab Sample ID: STD5 280-652556/16 IC Client Sample ID:

Date Analyzed: 05/09/24 01:00 Lab File ID: G2_11766.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	2.00	Incomplete Integration	Q2ZS	05/09/24 11:43
Methylene Chloride	2.90	Incomplete Integration	Q2ZS	05/09/24 10:58
Vinyl acetate	3.38	Incomplete Integration	Q2ZS	05/09/24 12:08
Isobutyl alcohol	4.29	Incomplete Integration	Q2ZS	05/09/24 10:58
1,4-Dioxane	5.14	Incomplete Integration	Q2ZS	05/09/24 12:30

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: VMS_G2 Analysis Batch Number: 652556

Lab Sample ID: STD10 280-652556/17 IC Client Sample ID:

Date Analyzed: 05/09/24 01:21 Lab File ID: G2_11767.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	2.00	Incomplete Integration	Q2ZS	05/09/24 11:42
Iodomethane	2.66	Incomplete Integration	Q2ZS	05/09/24 11:51
Vinyl acetate	3.38	Incomplete Integration	Q2ZS	05/09/24 12:07
Isobutyl alcohol	4.28	Incomplete Integration	Q2ZS	05/09/24 10:56
1,4-Dioxane	5.14	Incomplete Integration	Q2ZS	05/09/24 10:56

Lab Sample ID: ICIS 280-652556/18 Client Sample ID:

Date Analyzed: 05/09/24 01:41 Lab File ID: G2_11768.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.91	Incomplete Integration	Q2ZS	05/09/24 11:39
Isobutyl alcohol	4.28	Incomplete Integration	Q2ZS	05/09/24 10:53

Lab Sample ID: STD75 280-652556/19 IC Client Sample ID:

Date Analyzed: 05/09/24 02:02 Lab File ID: G2_11769.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.91	Incomplete Integration	Q2ZS	05/09/24 11:40
Chloroethane	1.99	Incomplete Integration	Q2ZS	05/09/24 11:43
Isobutyl alcohol	4.28	Peak assignment corrected	Q2ZS	05/09/24 11:23

Lab Sample ID: STD100 280-652556/20 IC Client Sample ID:

Date Analyzed: 05/09/24 02:22 Lab File ID: G2_11770.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.91	Incomplete Integration	Q2ZS	05/09/24 11:40
Isobutyl alcohol	4.28	Incomplete Integration	Q2ZS	05/09/24 11:46

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: VMS_G2 Analysis Batch Number: 652556

Lab Sample ID: STD200 280-652556/21 IC Client Sample ID:

Date Analyzed: 05/09/24 02:43 Lab File ID: G2_11771.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.98	Incomplete Integration	Q2ZS	05/09/24 11:40
Chloroethane	1.98	Incomplete Integration	Q2ZS	05/09/24 11:44
Trichlorofluoromethane	2.17	Incomplete Integration	Q2ZS	05/09/24 11:49
Carbon disulfide	2.71	Peak Tail	Q2ZS	05/09/24 12:46
Isobutyl alcohol	4.28	Incomplete Integration	Q2ZS	05/09/24 11:45

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 649950

Lab Sample ID: IC 280-649950/11 Client Sample ID:

Date Analyzed: 04/17/24 20:37 Lab File ID: 04170011.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.47	Baseline	LV5D	04/18/24 11:13
HMX	6.58	Baseline	LV5D	04/18/24 11:13
DNX	6.78	Baseline	LV5D	04/18/24 11:13

Lab Sample ID: IC 280-649950/12 Client Sample ID:

Date Analyzed: 04/17/24 21:00 Lab File ID: 04170012.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.47	Baseline	LV5D	04/18/24 11:13
HMX	6.58	Baseline	LV5D	04/18/24 11:13
DNX	6.79	Baseline	LV5D	04/18/24 11:13

Lab Sample ID: IC 280-649950/13 Client Sample ID:

Date Analyzed: 04/17/24 21:23 Lab File ID: 04170013.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.48	Baseline	LV5D	04/18/24 11:13
HMX	6.58	Baseline	LV5D	04/18/24 11:13
DNX	6.79	Baseline	LV5D	04/18/24 11:13

Lab Sample ID: IC 280-649950/14 Client Sample ID:

Date Analyzed: 04/17/24 21:46 Lab File ID: 04170014.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.48	Baseline	LV5D	04/18/24 11:14
HMX	6.59	Baseline	LV5D	04/18/24 11:14
DNX	6.79	Baseline	LV5D	04/18/24 11:14

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 649950

Lab Sample ID: IC 280-649950/15 Client Sample ID:

Date Analyzed: 04/17/24 22:09 Lab File ID: 04170015.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.48	Baseline	LV5D	04/18/24 11:15
HMX	6.58	Baseline	LV5D	04/18/24 11:15
DNX	6.79	Baseline	LV5D	04/18/24 11:15
3-Nitrotoluene	13.40	Baseline	LV5D	04/18/24 11:15

Lab Sample ID: IC 280-649950/16 Client Sample ID:

Date Analyzed: 04/17/24 22:32 Lab File ID: 04170016.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.48	Baseline	LV5D	04/18/24 11:16
HMX	6.58	Baseline	LV5D	04/18/24 11:16
DNX	6.79	Baseline	LV5D	04/18/24 11:16
PETN	14.48	Baseline	LV5D	04/18/24 11:15

Lab Sample ID: IC 280-649950/17 Client Sample ID:

Date Analyzed: 04/17/24 22:55 Lab File ID: 04170017.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.48	Baseline	LV5D	04/18/24 11:16
HMX	6.58	Baseline	LV5D	04/18/24 11:16
DNX	6.78	Baseline	LV5D	04/18/24 11:16
PETN	14.49	Baseline	LV5D	04/18/24 11:16

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 649950

Lab Sample ID: IC 280-649950/18 Client Sample ID:

Date Analyzed: 04/17/24 23:18 Lab File ID: 04170018.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
DNX	6.79	Baseline	LV5D	04/18/24 11:17
1,2-Dinitrobenzene	8.52	Baseline	LV5D	04/18/24 11:19
1,3,5-Trinitrobenzene	8.66	Baseline	LV5D	04/18/24 11:19
3,5-Dinitroaniline	9.87	Baseline	LV5D	04/18/24 11:17
Tetryl	9.96	Baseline	LV5D	04/18/24 11:17
Nitroglycerin	10.42	Baseline	LV5D	04/18/24 11:17
PETN	14.48	Baseline	LV5D	04/18/24 11:17

Lab Sample ID: IC 280-649950/19 Client Sample ID:

Date Analyzed: 04/17/24 23:41 Lab File ID: 04170019.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.48	Baseline	LV5D	04/18/24 11:18
HMX	6.58	Baseline	LV5D	04/18/24 11:18
DNX	6.79	Baseline	LV5D	04/18/24 11:18
RDX	7.58	Baseline	LV5D	04/18/24 11:18
1,2-Dinitrobenzene	8.52	Baseline	LV5D	04/18/24 11:19
1,3,5-Trinitrobenzene	8.66	Baseline	LV5D	04/18/24 11:19
3,5-Dinitroaniline	9.87	Baseline	LV5D	04/18/24 11:18
Tetryl	9.95	Baseline	LV5D	04/18/24 11:18
Nitroglycerin	10.43	Baseline	LV5D	04/18/24 11:17
PETN	14.49	Baseline	LV5D	04/18/24 11:17

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 649950

Lab Sample ID: ICV 280-649950/20 Client Sample ID:

Date Analyzed: 04/18/24 00:04 Lab File ID: 04170020.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.48	Baseline	LV5D	04/18/24 11:20
HMX	6.58	Baseline	LV5D	04/18/24 11:20
DNX	6.79	Baseline	LV5D	04/18/24 11:20

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 653063

Lab Sample ID: MB 280-652898/1-A Client Sample ID:

Date Analyzed: 05/11/24 15:16 Lab File ID: 05010028.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.56	Baseline	LV5D	05/14/24 12:38
1,3,5-Trinitrobenzene		Invalid Compound ID	LV5D	05/14/24 12:38

Lab Sample ID: LCS 280-652898/2-A Client Sample ID:

Date Analyzed: 05/11/24 15:39 Lab File ID: 05010029.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.62	Baseline	LV5D	05/14/24 12:41

Lab Sample ID: LCSD 280-652898/3-A Client Sample ID:

Date Analyzed: 05/11/24 16:02 Lab File ID: 05010030.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.61	Baseline	LV5D	05/14/24 12:41

Lab Sample ID: 280-191168-2 Client Sample ID: FWGmw-021-240401-GW

Date Analyzed: 05/11/24 18:20 Lab File ID: 05010036.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3,5-Trinitrobenzene	8.71	Baseline	LV5D	05/14/24 12:51
1,3-Dinitrobenzene		Invalid Compound ID	LV5D	05/14/24 12:51
2,4-Dinitrotoluene		Invalid Compound ID	LV5D	05/14/24 12:51

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 653063

Lab Sample ID: 280-191168-3 Client Sample ID: FWGmw-024-240401-GW

Date Analyzed: 05/11/24 18:43 Lab File ID: 05010037.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.55	Baseline	LV5D	05/14/24 12:53
1,3,5-Trinitrobenzene	8.71	Baseline	LV5D	05/14/24 12:53
HMX		Invalid Compound ID	LV5D	05/14/24 12:53

Lab Sample ID: CCV 280-653063/38 Client Sample ID:

Date Analyzed: 05/11/24 19:06 Lab File ID: 05010038.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.61	Baseline	LV5D	05/14/24 12:53

Lab Sample ID: 280-191168-4 Client Sample ID: LL3mw-245-240401-GW

Date Analyzed: 05/11/24 19:29 Lab File ID: 05010039.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.55	Baseline	LV5D	05/14/24 12:54
1,3,5-Trinitrobenzene	8.71	Baseline	LV5D	05/14/24 12:54
HMX		Invalid Compound ID	LV5D	05/14/24 12:54

Lab Sample ID: CCV 280-653063/48 Client Sample ID:

Date Analyzed: 05/11/24 22:56 Lab File ID: 05010048.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.61	Baseline	LV5D	05/14/24 14:09

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 653871

Lab Sample ID: CCV 280-653871/39 Client Sample ID:

Date Analyzed: 05/18/24 01:43 Lab File ID: 05170039.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.62	Baseline	LV5D	05/18/24 10:33

Lab Sample ID: LCS 280-653565/2-A Client Sample ID:

Date Analyzed: 05/18/24 02:29 Lab File ID: 05170041.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.62	Baseline	LV5D	05/18/24 10:34

Lab Sample ID: LCSD 280-653565/3-A Client Sample ID:

Date Analyzed: 05/18/24 02:52 Lab File ID: 05170042.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.62	Baseline	LV5D	05/18/24 10:34

Lab Sample ID: 280-191168-2 RE Client Sample ID: FWGmw-021-240401-GW RE

Date Analyzed: 05/18/24 05:09 Lab File ID: 05170048.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	7.65	Baseline	LV5D	05/18/24 10:47
1,3,5-Trinitrobenzene		Invalid Compound ID	LV5D	05/18/24 10:47
1,3-Dinitrobenzene		Invalid Compound ID	LV5D	05/18/24 10:47
2,4-Dinitrotoluene		Baseline	LV5D	05/18/24 10:47
2-Nitrotoluene		Invalid Compound ID	LV5D	05/18/24 10:47
4-Amino-2,6-dinitrotoluene	11.04	Baseline	LV5D	05/18/24 10:47
2-Amino-4,6-dinitrotoluene	11.29	Baseline	LV5D	05/18/24 10:47

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 653871

Lab Sample ID: 280-191168-3 RE Client Sample ID: FWGmw-024-240401-GW RE

Date Analyzed: 05/18/24 05:32 Lab File ID: 05170049.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.62	Baseline	LV5D	05/18/24 10:47
1,2-Dinitrobenzene	8.55	Baseline	LV5D	05/18/24 10:47
1,3,5-Trinitrobenzene		Invalid Compound ID	LV5D	05/18/24 10:47
1,3-Dinitrobenzene		Invalid Compound ID	LV5D	05/18/24 10:47

Lab Sample ID: 280-191168-4 RE Client Sample ID: LL3mw-245-240401-GW RE

Date Analyzed: 05/18/24 06:18 Lab File ID: 05170051.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.55	Baseline	LV5D	05/18/24 10:48
1,3,5-Trinitrobenzene		Invalid Compound ID	LV5D	05/18/24 10:47
1,3-Dinitrobenzene		Invalid Compound ID	LV5D	05/18/24 10:47
HMX		Invalid Compound ID	LV5D	05/18/24 10:47

Lab Sample ID: CCV 280-653871/56 Client Sample ID:

Date Analyzed: 05/18/24 08:13 Lab File ID: 05170056.D GC Column: UltraCarb5uO ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.61	Baseline	LV5D	05/18/24 10:51

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: CHHPLC_X5 Analysis Batch Number: 647408

Lab Sample ID: IC 280-647408/10 Client Sample ID:

Date Analyzed: 03/27/24 19:58 Lab File ID: 03270010.D GC Column: Luna-phenylh ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	7.72	Peak assignment corrected	LV5D	03/28/24 11:16
Nitroglycerin	15.03	Baseline Smoothing	LV5D	03/28/24 11:35

Lab Sample ID: IC 280-647408/11 Client Sample ID:

Date Analyzed: 03/27/24 20:33 Lab File ID: 03270011.D GC Column: Luna-phenylh ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	15.05	Baseline Smoothing	LV5D	03/28/24 11:35

Lab Sample ID: IC 280-647408/12 Client Sample ID:

Date Analyzed: 03/27/24 21:08 Lab File ID: 03270012.D GC Column: Luna-phenylh ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	15.06	Baseline Smoothing	LV5D	03/28/24 11:35

Lab Sample ID: IC 280-647408/13 Client Sample ID:

Date Analyzed: 03/27/24 21:43 Lab File ID: 03270013.D GC Column: Luna-phenylh ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	15.07	Baseline Smoothing	LV5D	03/28/24 11:35
PETN	24.68	Baseline Smoothing	LV5D	03/28/24 11:39

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: CHHPLC_X5 Analysis Batch Number: 647408

Lab Sample ID: IC 280-647408/14 Client Sample ID:

Date Analyzed: 03/27/24 22:18 Lab File ID: 03270014.D GC Column: Luna-phenylh ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3,5-Dinitroaniline	14.39	Baseline Smoothing	LV5D	03/28/24 12:08
1,3-Dinitrobenzene	14.82	Baseline Smoothing	LV5D	03/28/24 12:08
Nitroglycerin	15.07	Baseline Smoothing	LV5D	03/28/24 11:36
2-Nitrotoluene	15.75	Baseline Smoothing	LV5D	03/28/24 12:08
4-Nitrotoluene	16.02	Baseline Smoothing	LV5D	03/28/24 12:08
4-Amino-2,6-dinitrotoluene	16.51	Baseline Smoothing	LV5D	03/28/24 12:08
3-Nitrotoluene	16.88	Baseline Smoothing	LV5D	03/28/24 12:08
2-Amino-4,6-dinitrotoluene	17.39	Baseline Smoothing	LV5D	03/28/24 12:08
1,3,5-Trinitrobenzene	17.81	Baseline Smoothing	LV5D	03/28/24 12:08
PETN	24.69	Baseline Smoothing	LV5D	03/28/24 11:39

Lab Sample ID: IC 280-647408/15 Client Sample ID:

Date Analyzed: 03/27/24 22:53 Lab File ID: 03270015.D GC Column: Luna-phenylh ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	15.08	Baseline Smoothing	LV5D	03/28/24 11:36
2,4-Dinitrotoluene	19.32	Baseline Smoothing	LV5D	03/28/24 11:37
PETN	24.69	Baseline Smoothing	LV5D	03/28/24 11:39

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: CHHPLC_X5 Analysis Batch Number: 647408

Lab Sample ID: IC 280-647408/16 Client Sample ID:

Date Analyzed: 03/27/24 23:28 Lab File ID: 03270016.D GC Column: Luna-phenylh ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3,5-Dinitroaniline	14.40	Baseline Smoothing	LV5D	03/28/24 11:36
1,3-Dinitrobenzene	14.83	Baseline Smoothing	LV5D	03/28/24 11:36
Nitroglycerin	15.08	Baseline Smoothing	LV5D	03/28/24 11:36
2-Nitrotoluene	15.76	Baseline Smoothing	LV5D	03/28/24 11:36
2,4-Dinitrotoluene	19.31	Baseline Smoothing	LV5D	03/28/24 11:36
PETN	24.69	Baseline Smoothing	LV5D	03/28/24 11:40

Lab Sample ID: IC 280-647408/17 Client Sample ID:

Date Analyzed: 03/28/24 00:03 Lab File ID: 03270017.D GC Column: Luna-phenylh ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3,5-Dinitroaniline	14.39	Baseline Smoothing	LV5D	03/28/24 11:37
1,3-Dinitrobenzene	14.81	Baseline Smoothing	LV5D	03/28/24 11:37
Nitroglycerin	15.07	Baseline Smoothing	LV5D	03/28/24 11:37
PETN	24.69	Baseline Smoothing	LV5D	03/28/24 11:40

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: CHHPLC_X5 Analysis Batch Number: 647408

Lab Sample ID: IC 280-647408/18 Client Sample ID:

Date Analyzed: 03/28/24 00:38 Lab File ID: 03270018.D GC Column: Luna-phenylh ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3,5-Dinitroaniline	14.39	Baseline Smoothing	LV5D	03/28/24 11:38
1,3-Dinitrobenzene	14.81	Baseline Smoothing	LV5D	03/28/24 11:38
Nitroglycerin	15.07	Baseline Smoothing	LV5D	03/28/24 11:37
2-Nitrotoluene	15.76	Baseline Smoothing	LV5D	03/28/24 11:39
4-Nitrotoluene	16.01	Baseline Smoothing	LV5D	03/28/24 11:38
4-Amino-2,6-dinitrotoluene	16.50	Baseline Smoothing	LV5D	03/28/24 11:38
3-Nitrotoluene	16.88	Baseline Smoothing	LV5D	03/28/24 11:38
2-Amino-4,6-dinitrotoluene	17.37	Baseline Smoothing	LV5D	03/28/24 11:38
1,3,5-Trinitrobenzene	17.81	Baseline Smoothing	LV5D	03/28/24 11:38
PETN	24.83	Baseline Smoothing	LV5D	03/28/24 11:39

Lab Sample ID: ICV 280-647408/19 Client Sample ID:

Date Analyzed: 03/28/24 01:13 Lab File ID: 03270019.D GC Column: Luna-phenylh ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	15.07	Baseline Smoothing	LV5D	03/28/24 11:41
PETN	24.67	Baseline Smoothing	LV5D	03/28/24 11:43

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: CHHPLC_X5 Analysis Batch Number: 653069

Lab Sample ID: CCV 280-653069/7 Client Sample ID:

Date Analyzed: 05/11/24 17:27 Lab File ID: 05110007.D GC Column: Luna-phenylh ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	14.75	Baseline Smoothing	LV5D	05/14/24 18:06
Tetryl	22.21	Baseline Smoothing	LV5D	05/14/24 18:06
2,4,6-Trinitrotoluene	23.19	Baseline Smoothing	LV5D	05/14/24 18:06

Lab Sample ID: 280-191168-2 Client Sample ID: FWGmw-021-240401-GW

Date Analyzed: 05/11/24 22:42 Lab File ID: 05110018.D GC Column: Luna-phenylh ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX		Invalid Compound ID	LV5D	05/14/24 18:08
Tetryl		Invalid Compound ID	LV5D	05/14/24 18:08
2-Amino-4,6-dinitrotoluene	16.97	Baseline Smoothing	LV5D	05/14/24 18:08

Lab Sample ID: CCV 280-653069/20 Client Sample ID:

Date Analyzed: 05/11/24 23:51 Lab File ID: 05110020.D GC Column: Luna-phenylh ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	14.75	Baseline Smoothing	LV5D	05/14/24 18:10
Tetryl	22.21	Baseline Smoothing	LV5D	05/14/24 18:10
2,4,6-Trinitrotoluene	23.19	Baseline Smoothing	LV5D	05/14/24 18:10

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: CHHPLC_X5 Analysis Batch Number: 653873

Lab Sample ID: CCV 280-653873/7 Client Sample ID:

Date Analyzed: 05/17/24 17:49 Lab File ID: 05170007.D GC Column: Luna-phenylh ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	14.78	Baseline Smoothing	LV5D	05/17/24 18:26
Tetryl	22.28	Baseline Smoothing	LV5D	05/17/24 18:26

Lab Sample ID: 280-191168-2 RE Client Sample ID: FWGmw-021-240401-GW RE

Date Analyzed: 05/17/24 23:04 Lab File ID: 05170018.D GC Column: Luna-phenylh ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.62	Baseline Smoothing	LV5D	05/18/24 16:39
Nitroglycerin		Invalid Compound ID	LV5D	05/18/24 16:39
RDX		Invalid Compound ID	LV5D	05/18/24 16:39

Lab Sample ID: CCV 280-653873/20 Client Sample ID:

Date Analyzed: 05/18/24 00:14 Lab File ID: 05170020.D GC Column: Luna-phenylh ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	14.78	Baseline Smoothing	LV5D	05/18/24 16:39
Tetryl	22.30	Baseline Smoothing	LV5D	05/18/24 16:40

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
8330 DMT_00016	06/30/24	01/24/24	Acetonitrile, Lot 233799	5 mL	MNX,TNX,DNX_00092	1 mL	DNX	20.04 ug/mL
							MNX	23.38 ug/mL
							TNX	20.08 ug/mL
.MNX,TNX,DNX_00092	06/30/24		Agilent, Lot 0006744504		(Purchased Reagent)		DNX	100.2 ug/mL
							MNX	116.9 ug/mL
							TNX	100.4 ug/mL
8330 LCS_00134	08/29/24	02/29/24	Acetonitrile, Lot Acetonitrile_00086	100 mL	8330 LCSMix2_00113	1 mL	2,6-Dinitrotoluene	10 ug/mL
							2-Amino-4,6-dinitrotoluene	10 ug/mL
							2-Nitrotoluene	10 ug/mL
							3-Nitrotoluene	10 ug/mL
							4-Amino-2,6-dinitrotoluene	10 ug/mL
							4-Nitrotoluene	10 ug/mL
							Tetryl	10 ug/mL
					8330_NG_Stk_00145	1 mL	Nitroglycerin	100 ug/mL
					8330_NG_Stk_00147	1 mL	Nitroglycerin	100 ug/mL
					8330_PETN_Stk_00152	1 mL	PETN	100 ug/mL
					8330_PETN_Stk_00153	1 mL	PETN	100 ug/mL
					8330LCSMix1_00151	1 mL	1,3,5-Trinitrobenzene	10 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							2,4,6-Trinitrotoluene	10 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	10 ug/mL
							RDX	10 ug/mL
.8330 LCSMix2_00113	02/28/25		Restek, Lot A199657		(Purchased Reagent)		2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							Tetryl	1000 ug/mL
.8330_NG_Stk_00145	02/28/25		Restek, Lot A0201048		(Purchased Reagent)		Nitroglycerin	5000 ug/mL
.8330_NG_Stk_00147	02/28/25		Restek, Lot A0201048		(Purchased Reagent)		Nitroglycerin	5000 ug/mL
.8330_PETN_Stk_00152	02/28/25		Restek, Lot A0198972		(Purchased Reagent)		PETN	5000 ug/mL
.8330_PETN_Stk_00153	02/28/25		Restek, Lot A0198972		(Purchased Reagent)		PETN	5000 ug/mL
.8330LCSMix1_00151	02/28/25		Restek, Lot A196548		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
8330 LCS_00135	10/26/24	04/26/24	Acetonitrile, Lot Acetonitrile_00086	100 mL	3,5-DNA Stock_00052	1 mL	3,5-Dinitroaniline	10 ug/mL
					8330 LCSMix2_00114	1 mL	2,6-Dinitrotoluene	10 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		
							2-Amino-4,6-dinitrotoluene	10 ug/mL
							2-Nitrotoluene	10 ug/mL
							3-Nitrotoluene	10 ug/mL
							4-Amino-2,6-dinitrotoluene	10 ug/mL
							4-Nitrotoluene	10 ug/mL
							Tetryl	10 ug/mL
					8330_NG_Stk_00148	1 mL	Nitroglycerin	100 ug/mL
					8330_NG_Stk_00150	1 mL	Nitroglycerin	100 ug/mL
					8330_PETN_Stk_00154	1 mL	PETN	100 ug/mL
					8330_PETN_Stk_00156	1 mL	PETN	100 ug/mL
					8330LCSMix1_00152	1 mL	1,3,5-Trinitrobenzene	10 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							2,4,6-Trinitrotoluene	10 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	10 ug/mL
							RDX	10 ug/mL
					PicricARestek_00124	1 mL	2,4,6-Trinitrophenol	10 ug/mL
							Ammonium Picrate	10.74 ug/mL
.3,5-DNA Stock_00052	04/26/25		Restek, Lot A0193965		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
.8330 LCSMix2_00114	04/26/25		Restek, Lot A199657		(Purchased Reagent)		2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							Tetryl	1000 ug/mL
.8330_NG_Stk_00148	04/26/25		Restek, Lot A0203257		(Purchased Reagent)		Nitroglycerin	5000 ug/mL
.8330_NG_Stk_00150	04/26/25		Restek, Lot A0203257		(Purchased Reagent)		Nitroglycerin	5000 ug/mL
.8330_PETN_Stk_00154	04/26/25		Restek, Lot A0198972		(Purchased Reagent)		PETN	5000 ug/mL
.8330_PETN_Stk_00156	04/26/25		Restek, Lot A0205209		(Purchased Reagent)		PETN	5000 ug/mL
.8330LCSMix1_00152	04/26/25		Restek, Lot A196548		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
.PicricARestek_00124	04/26/25		Restek, Lot A0195778		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
							Ammonium Picrate	1074 ug/mL
8330IntermStk_00079	05/14/24	01/23/24	Acetonitrile, Lot ACN_239	10 mL	8330_NG1000_00011	1 mL	Nitroglycerin	100 ug/mL
					8330_PETN1000_00015	1 mL	PETN	100 ug/mL
					833035DNAStk_00057	1 mL	3,5-Dinitroaniline	10 ug/mL
					8330ICALStock_00035	1 mL	1,3,5-Trinitrobenzene	10 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							2,4,6-Trinitrotoluene	10 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		
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Amino-4,6-dinitrotoluene	10 ug/mL
							2-Nitrotoluene	10 ug/mL
							3-Nitrotoluene	10 ug/mL
							4-Amino-2,6-dinitrotoluene	10 ug/mL
							4-Nitrotoluene	10 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	10 ug/mL
							RDX	10 ug/mL
							Tetryl	10 ug/mL
							1,2-Dinitrobenzene	10 ug/mL
					8330PAStkPS_00074	1 mL	2,4,6-Trinitrophenol	10 ug/mL
.8330_NG1000_00011	01/23/25		Restek, Lot A0197032		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.8330_PETN1000_00015	01/23/25		Restek, Lot A0198747		(Purchased Reagent)		PETN	1000 ug/mL
.833035DNAStk_00057	05/14/24		Accustandard, Lot 223041214		(Purchased Reagent)		3,5-Dinitroaniline	100 ug/mL
.8330ICALStock_00035	01/23/25	01/23/24	Acetonitrile, Lot 233799	10 mL	8330 Stock_TS_00024	1 mL	1,3,5-Trinitrobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							2,4,6-Trinitrotoluene	100 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Amino-4,6-dinitrotoluene	100 ug/mL
							2-Nitrotoluene	100 ug/mL
							3-Nitrotoluene	100 ug/mL
							4-Amino-2,6-dinitrotoluene	100 ug/mL
							4-Nitrotoluene	100 ug/mL
							HMX	100 ug/mL
							Nitrobenzene	100 ug/mL
							RDX	100 ug/mL
							Tetryl	100 ug/mL
					8330SurrStock_00173	1 mL	1,2-Dinitrobenzene	100 ug/mL
..8330 Stock_TS_00024	01/23/25		Agilent, Lot 0006684308		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
..8330SurrStock_00173	01/23/25		AccuStandard, Lot 219051500		(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330PAStkPS_00074	01/23/25		AccuStandard, Lot 223031306		(Purchased Reagent)		2,4,6-Trinitrophenol	100 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		
8330IntermStk_00080	05/14/24	04/17/24	Acetonitrile, Lot 223272	10 mL	8330_NG1000_00012	1 mL	Nitroglycerin	100 ug/mL
					8330_PETN1000_00016	1 mL	PETN	100 ug/mL
					833035DNAStk_00059	1 mL	3,5-Dinitroaniline	10 ug/mL
					8330ICALStock_00035	1 mL	1,3,5-Trinitrobenzene	10 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							2,4,6-Trinitrotoluene	10 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Amino-4,6-dinitrotoluene	10 ug/mL
							2-Nitrotoluene	10 ug/mL
							3-Nitrotoluene	10 ug/mL
							4-Amino-2,6-dinitrotoluene	10 ug/mL
							4-Nitrotoluene	10 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	10 ug/mL
							RDX	10 ug/mL
							Tetryl	10 ug/mL
							1,2-Dinitrobenzene	10 ug/mL
					8330PAStkPS_00075	1 mL	2,4,6-Trinitrophenol	10 ug/mL
.8330_NG1000_00012	04/17/25		Restek, Lot A0197032		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.8330_PETN1000_00016	04/17/25		Restek, Lot A0198747		(Purchased Reagent)		PETN	1000 ug/mL
.833035DNAStk_00059	05/14/24		Accustandard, Lot 223041214		(Purchased Reagent)		3,5-Dinitroaniline	100 ug/mL
.8330ICALStock_00035	01/23/25	01/23/24	Acetonitrile, Lot 233799	10 mL	8330 Stock_TS_00024	1 mL	1,3,5-Trinitrobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							2,4,6-Trinitrotoluene	100 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Amino-4,6-dinitrotoluene	100 ug/mL
							2-Nitrotoluene	100 ug/mL
							3-Nitrotoluene	100 ug/mL
							4-Amino-2,6-dinitrotoluene	100 ug/mL
							4-Nitrotoluene	100 ug/mL
							HMX	100 ug/mL
							Nitrobenzene	100 ug/mL
							RDX	100 ug/mL
							Tetryl	100 ug/mL
					8330SurrStock_00173	1 mL	1,2-Dinitrobenzene	100 ug/mL
..8330 Stock_TS_00024	01/23/25		Agilent, Lot 0006684308		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	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		
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
..8330SurrStock_00173	01/23/25	AccuStandard, Lot 219051500			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330PAStkPS_00075	04/12/25	AccuStandard, Lot 223041157			(Purchased Reagent)		2,4,6-Trinitrophenol	100 ug/mL
8330IntermStk_00081	11/14/24	05/14/24	Acetonitrile, Lot 233276	10 mL	8330_NG1000_00014	1 mL	Nitroglycerin	100 ug/mL
					8330_PETN1000_00017	1 mL	PETN	100 ug/mL
					8330ICALStock_00035	1 mL	1,3,5-Trinitrobenzene	10 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							2,4,6-Trinitrotoluene	10 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Amino-4,6-dinitrotoluene	10 ug/mL
							2-Nitrotoluene	10 ug/mL
							3-Nitrotoluene	10 ug/mL
							4-Amino-2,6-dinitrotoluene	10 ug/mL
							4-Nitrotoluene	10 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	10 ug/mL
							RDX	10 ug/mL
							Tetryl	10 ug/mL
							1,2-Dinitrobenzene	10 ug/mL
.8330_NG1000_00014	05/14/25	Restek, Lot A0208632			(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.8330_PETN1000_00017	05/14/25	Restek, Lot A0207895			(Purchased Reagent)		PETN	1000 ug/mL
.8330ICALStock_00035	01/23/25	01/23/24	Acetonitrile, Lot 233799	10 mL	8330 Stock_TS_00024	1 mL	1,3,5-Trinitrobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							2,4,6-Trinitrotoluene	100 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Amino-4,6-dinitrotoluene	100 ug/mL
							2-Nitrotoluene	100 ug/mL
							3-Nitrotoluene	100 ug/mL
							4-Amino-2,6-dinitrotoluene	100 ug/mL
							4-Nitrotoluene	100 ug/mL
							HMX	100 ug/mL
							Nitrobenzene	100 ug/mL
							RDX	100 ug/mL
							Tetryl	100 ug/mL
					8330SurrStock_00173	1 mL	1,2-Dinitrobenzene	100 ug/mL
..8330 Stock_TS_00024	01/23/25	Agilent, Lot 0006684308			(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	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		
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
							Tetryl	1000 ug/mL
..8330SurrStock_00173	01/23/25	AccuStandard, Lot 219051500			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
8330Surrogate_00154	09/01/24	03/01/24	Acetonitrile, Lot Acetonitrile_00086	500 mL	8330SurrStkSS_00310	1 mL	1,2-Dinitrobenzene	10 ug/mL
					8330SurrStkSS_00311	1 mL	1,2-Dinitrobenzene	10 ug/mL
					8330SurrStkSS_00312	1 mL	1,2-Dinitrobenzene	10 ug/mL
					8330SurrStkSS_00314	1 mL	1,2-Dinitrobenzene	10 ug/mL
					8330SurrStkSS_00315	1 mL	1,2-Dinitrobenzene	10 ug/mL
.8330SurrStkSS_00310	03/01/25	Restek, Lot A0200577			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330SurrStkSS_00311	03/01/25	Restek, Lot A0200577			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330SurrStkSS_00312	03/01/25	Restek, Lot A0200577			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330SurrStkSS_00314	03/01/25	Restek, Lot A0200577			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330SurrStkSS_00315	03/01/25	Restek, Lot A0200577			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
8330Surrogate_00155	10/26/24	04/26/24	Acetonitrile, Lot Acetonitrile_00086	500 mL	8330SurrStkSS_00313	1 mL	1,2-Dinitrobenzene	10 ug/mL
							1,2-Dinitrobenzene (Surr)	10 ug/mL
					8330SurrStkSS_00316	1 mL	1,2-Dinitrobenzene	10 ug/mL
							1,2-Dinitrobenzene (Surr)	10 ug/mL
					8330SurrStkSS_00317	1 mL	1,2-Dinitrobenzene	10 ug/mL
							1,2-Dinitrobenzene (Surr)	10 ug/mL
					8330SurrStkSS_00318	1 mL	1,2-Dinitrobenzene	10 ug/mL
							1,2-Dinitrobenzene (Surr)	10 ug/mL
					8330SurrStkSS_00319	1 mL	1,2-Dinitrobenzene	10 ug/mL
							1,2-Dinitrobenzene (Surr)	10 ug/mL
.8330SurrStkSS_00313	04/26/25	Restek, Lot A0200577			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
							1,2-Dinitrobenzene (Surr)	1000 ug/mL
.8330SurrStkSS_00316	04/26/25	Restek, Lot A0200577			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
							1,2-Dinitrobenzene (Surr)	1000 ug/mL
.8330SurrStkSS_00317	04/26/25	Restek, Lot A0200577			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
							1,2-Dinitrobenzene (Surr)	1000 ug/mL
.8330SurrStkSS_00318	04/26/25	Restek, Lot A0205460			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
							1,2-Dinitrobenzene (Surr)	1000 ug/mL
.8330SurrStkSS_00319	04/26/25	Restek, Lot A0205460			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
							1,2-Dinitrobenzene (Surr)	1000 ug/mL
Cal Dil B_00001	05/17/24	04/25/24	P&T Methanol, Lot 1897898	100 uL	MV-Gas B_00161	2 uL	Bromomethane	5 ug/mL
							Chloroethane	5 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		
							Chloromethane	5 ug/mL
							Dichlorodifluoromethane	5 ug/mL
							Dichlorofluoromethane	5 ug/mL
							Trichlorofluoromethane	5 ug/mL
							Vinyl chloride	5 ug/mL
							2-Chloroethyl vinyl ether	5 ug/mL
					MV-MegaMain B_00102	5 uL	Acrolein	49.375 ug/mL
							2-Butanone (MEK)	20 ug/mL
							2-Hexanone	20 ug/mL
							4-Methyl-2-pentanone (MIBK)	20 ug/mL
							Acetone	20 ug/mL
							Vinyl acetate	10 ug/mL
							Cyclohexanone	150 ug/mL
							1,1,1,2-Tetrachloroethane	5 ug/mL
							1,1,1-Trichloroethane	5 ug/mL
							1,1,2,2-Tetrachloroethane	5 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	5 ug/mL
							1,1,2-Trichloroethane	5 ug/mL
							1,1-Dichloroethane	5 ug/mL
							1,1-Dichloroethene	5 ug/mL
							1,1-Dichloropropene	5 ug/mL
							1,2,3-Trichlorobenzene	5 ug/mL
							1,2,3-Trichloropropane	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2,4-Trimethylbenzene	5 ug/mL
							1,2-Dibromo-3-Chloropropane	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Dichloroethane	5 ug/mL
							1,2-Dichloropropane	5 ug/mL
							1,3,5-Trimethylbenzene	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dichloropropane	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2-Dichloropropane	5 ug/mL
							2-Chlorotoluene	5 ug/mL
							2-Methyl-2-propanol	50 ug/mL
							3-Chloro-1-propene	5 ug/mL
							4-Chlorotoluene	5 ug/mL
							4-Isopropyltoluene	5 ug/mL
							Acrylonitrile	50 ug/mL
							Benzene	5 ug/mL
							Bromobenzene	5 ug/mL
							Bromoform	5 ug/mL
							Carbon disulfide	5 ug/mL
							Carbon tetrachloride	5 ug/mL
							Chlorobenzene	5 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		
							Chlorobromomethane	5 ug/mL
							Chlorodibromomethane	5 ug/mL
							Chloroform	5 ug/mL
							cis-1,2-Dichloroethene	5 ug/mL
							cis-1,3-Dichloropropene	5 ug/mL
							Cyclohexane	5 ug/mL
							Dibromomethane	5 ug/mL
							Dichlorobromomethane	5 ug/mL
							Ethyl ether	5 ug/mL
							Ethyl methacrylate	5 ug/mL
							Ethylbenzene	5 ug/mL
							Ethylene Dibromide	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexane	5 ug/mL
							Iodomethane	5 ug/mL
							Isobutyl alcohol	125 ug/mL
							Isopropylbenzene	5 ug/mL
							m-Xylene & p-Xylene	5 ug/mL
							Methyl acetate	10 ug/mL
							Methyl tert-butyl ether	5 ug/mL
							Methylcyclohexane	5 ug/mL
							Methylene Chloride	5 ug/mL
							n-Butylbenzene	5 ug/mL
							n-Heptane	5 ug/mL
							N-Propylbenzene	5 ug/mL
							Naphthalene	5 ug/mL
							o-Xylene	5 ug/mL
							sec-Butylbenzene	5 ug/mL
							Styrene	5 ug/mL
							tert-Butylbenzene	5 ug/mL
							Tetrachloroethene	5 ug/mL
							Tetrahydrofuran	10 ug/mL
							Toluene	5 ug/mL
							trans-1,2-Dichloroethene	5 ug/mL
							trans-1,3-Dichloropropene	5 ug/mL
							trans-1,4-Dichloro-2-butene	5 ug/mL
							Trichloroethene	5 ug/mL
							1-Chlorohexane	4 ug/mL
							2-Pentanone	16 ug/mL
							sec-Butyl Alcohol	120 ug/mL
.MV-Gas B_00161	05/17/24	04/17/24	P&T Methanol, Lot EG636-US	12.5 mL	MV-569722.sec_00017	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL
							Dichlorofluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MV-569723.sec_00015	1250 uL	2-Chloroethyl vinyl ether	250 ug/mL
..MV-569722.sec_00017	05/31/26		RESTEK, Lot A0197640		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..MV-569723.sec_00015	01/31/26		RESTEK, Lot A0193808		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.MV-MegaMain B_00102	05/22/24	04/22/24	P&T Methanol, Lot EG-636-US	25 mL	MV-568720.sec_00040	1250 uL	Acrolein	987.5 ug/mL
					MV-569721.sec_00011	800 uL	2-Butanone (MEK)	400 ug/mL
							2-Hexanone	400 ug/mL
							4-Methyl-2-pentanone (MIBK)	400 ug/mL
							Acetone	400 ug/mL
					MV-569724.sec_00037	1000 uL	Vinyl acetate	200 ug/mL
					MV-569727.sec_00013	3000 uL	Cyclohexanone	3000 ug/mL
					MV-571992.sec_00010	1000 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
					MV-CUS17739.s_00013	2000 uL	1-Chlorohexane	80 ug/mL
							2-Pentanone	320 ug/mL
							sec-Butyl Alcohol	2400 ug/mL
..MV-568720.sec_00040	10/31/24		RESTEK, Lot A0197460		(Purchased Reagent)		Acrolein	19750 ug/mL
..MV-569721.sec_00011	02/28/26		RESTEK, Lot A0194631		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..MV-569724.sec_00037	11/30/24		RESTEK, Lot A0197959		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..MV-569727.sec_00013	03/31/26		RESTEK, Lot A0195344		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..MV-571992.sec_00010	08/31/25		RESTEK, Lot A0195252		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
..MV-CUS17739.s_00013	11/30/25	Agilent, Lot 0006765276.sa			(Purchased Reagent)		1-Chlorohexane	1000 ug/mL
							2-Pentanone	4000 ug/mL
							sec-Butyl Alcohol	30000 ug/mL
IC Cal low_00758	02/28/24	02/21/24	Di Water, Lot NA	100 mL	IC N03 cal_00030	5 mL	Nitrate as N	50 mg/L
					NO2 Cal std_00040	5 mL	Nitrite as N	50 mg/L
.IC N03 cal_00030	10/31/24	Ricca, Lot 1304R00			(Purchased Reagent)		Nitrate as N	1000 mg/L
.NO2 Cal std_00040	04/30/24	ERA, Lot 4310M18			(Purchased Reagent)		Nitrite as N	1000 mg/L
IC Cal low_00775	05/14/24	05/07/24	Di Water, Lot NA	100 mL	IC N03 cal_00030	5 mL	Nitrate as N	50 mg/L
.IC N03 cal_00030	10/31/24	Ricca, Lot 1304R00			(Purchased Reagent)		Nitrate as N	1000 mg/L
IC ICV 5_00428	02/27/24	02/20/24	Di Water, Lot na	100 mL	IC NO3 ICV_00020	5 mL	Nitrate as N	50 mg/L
.IC NO3 ICV_00020	10/13/24	ERA, Lot 341022m			(Purchased Reagent)		Nitrate as N	1000 mg/L
IC LCS_02037	05/14/24	05/08/24	Di Water, Lot 27	200 mL	IC Cal low_00775	20 mL	Nitrate as N	5 mg/L
.IC Cal low_00775	05/14/24	05/07/24	Di Water, Lot NA	100 mL	IC N03 cal_00030	5 mL	Nitrate as N	50 mg/L
..IC N03 cal_00030	10/31/24	Ricca, Lot 1304R00			(Purchased Reagent)		Nitrate as N	1000 mg/L
mv-Cent BFB_00007							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					mv-IS/SS Tune_00001	10 mL	BFB	50 ug/mL
.mv-IS/SS Tune_00001	11/30/23		Restek, Lot A0143593		(Purchased Reagent)		BFB	250 ug/mL
mv-Cent IS_00008	07/31/24	08/01/23	P&T Methanol, Lot 1996628	5 mL	mv-30241_00010	0.1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.mv-30241_00010	01/31/27		Restek, Lot A0180349		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
MV-Gas B_00162	05/29/24	04/29/24	P&T Methanol, Lot EG636-US	12.5 mL	MV-569722.sec_00017	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL
							Dichlorofluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
					MV-569723.sec_00015	1250 uL	2-Chloroethyl vinyl ether	250 ug/mL
.MV-569722.sec_00017	05/31/26		RESTEK, Lot A0197640		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.MV-569723.sec_00015	01/31/26		RESTEK, Lot A0193808		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
mv-IS_SS_00079	03/01/25	04/17/24	P&T Methanol, Lot EG636-US	50 mL	mv-30241_00014	1000 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
					MV-567650_00030	1000 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.mv-30241_00014	05/31/28		Restek, Lot A0198297		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
.MV-567650_00030	05/31/26		Restek, Lot A0172587		(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
MV-MegaMain B_00102	05/22/24	04/22/24	P&T Methanol, Lot EG-636-US	25 mL	MV-568720.sec_00040	1250 uL	Acrolein	987.5 ug/mL
					MV-569721.sec_00011	800 uL	2-Butanone (MEK)	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	400 ug/mL
							4-Methyl-2-pentanone (MIBK)	400 ug/mL
							Acetone	400 ug/mL
					MV-569724.sec_00037	1000 uL	Vinyl acetate	200 ug/mL
					MV-569727.sec_00013	3000 uL	Cyclohexanone	3000 ug/mL
					MV-571992.sec_00010	1000 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
					MV-CUS17739.s_00013	2000 uL	1-Chlorohexane	80 ug/mL
							2-Pentanone	320 ug/mL
							sec-Butyl Alcohol	2400 ug/mL
.MV-568720.sec_00040	10/31/24		RESTEK, Lot A0197460		(Purchased Reagent)		Acrolein	19750 ug/mL
.MV-569721.sec_00011	02/28/26		RESTEK, Lot A0194631		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.MV-569724.sec_00037	11/30/24		RESTEK, Lot A0197959		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.MV-569727.sec_00013	03/31/26		RESTEK, Lot A0195344		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.MV-571992.sec_00010	08/31/25		RESTEK, Lot A0195252		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	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		
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.MV-CUS17739.s_00013	11/30/25	Agilent, Lot 0006765276.sa			(Purchased Reagent)		1-Chlorohexane	1000 ug/mL
							2-Pentanone	4000 ug/mL
							sec-Butyl Alcohol	30000 ug/mL
MV-MegaMainA_00107	05/22/24	04/22/24	P&T Methanol, Lot EG636-US	25 mL	MV-571992_00015	1000 uL	Carbon tetrachloride	100 ug/mL
.MV-571992_00015	09/30/24	RESTEK, Lot A0183568			(Purchased Reagent)		Carbon tetrachloride	2500 ug/mL

Reagent

3,5-DNA Stock_00052

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31661 **Lot No.:** A0193965

Description : 3,5-Dinitroaniline Standard

3, 5-Dinitroaniline Std 1000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : August 31, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,5-Dinitroaniline	618-87-1	10311HS	99%	1,004.0 µg/mL	+/- 37.4502

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

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330 LCS_00134

Preliminary Report

Eurofins Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\CHHPLC_X\20240301-130735.b\03010011.D

Lims ID: 8330 LCS_00134 Inj. Date: 01-Mar-2024 12:30:35

Worklist ID: 280-0130735-011 Instrument: CHHPLC_X3

Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 0B_Sonc_	Limits 2 3535
4 HMX	0.5000	0.4367	87.3	66-115	65-135
8 RDX	0.5000	0.4730	94.6	69-122	68-130
9 2,4,6-Trinitrophenol	0.5000	0.5271	105.4	63-135	80-120
11 1,3,5-Trinitrobenzene	0.5000	0.5189	103.8	62-127	73-125
12 1,3-Dinitrobenzene	0.5000	0.5073	101.5	59-131	78-120
13 Nitrobenzene	0.5000	0.5288	105.8	46-144	65-134
14 3,5-Dinitroaniline	0.5000	0.5048	101.0	55-119	71-117
15 Tetryl	0.5000	0.4891	97.8	56-131	64-128
16 Nitroglycerin	5.00	5.39	107.8	70-125	74-127
17 2,4,6-Trinitrotoluene	0.5000	0.4808	96.2	46-139	71-123
18 4-Amino-2,6-dinitrotolu	0.5000	0.4971	99.4	43-120	76-125
19 2-Amino-4,6-dinitrotolu	0.5000	0.4882	97.6	46-124	79-120
20 2,6-Dinitrotoluene	0.5000	0.4971	99.4	51-130	77-127
21 2,4-Dinitrotoluene	0.5000	0.4832	96.6	53-127	78-120
22 o-Nitrotoluene	0.5000	0.5062	101.2	37-138	70-127
23 p-Nitrotoluene	0.5000	0.5029	100.6	41-137	71-127
24 m-Nitrotoluene	0.5000	0.5100	102.0	31-140	73-125
25 PETN	5.00	5.09	101.7	67-127	73-127

Samples for Limit Group: 1, Lims Prep Method: 8330B_Sonc_10g

280-188024-A-1-A 280-188024-A-2-A 280-188024-A-3-A

280-188024-A-4-A 280-188024-A-5-A

Samples for Limit Group: 2, Lims Prep Method: 3535

410-161632-D-1-A 410-161632-D-2-A 410-161632-D-4-A

410-161632-D-6-A 410-161632-A-7-A 410-161632-A-8-A

Reagent

8330 LCS_00135

Preliminary Report

Eurofins Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\CHHPLC_X\20240426-132709.b\8330SURR135.D

Lims ID: 8330LCS135 Inj. Date: 26-Apr-2024 16:12:12

Worklist ID: 280-0132709-057 Instrument: CHHPLC_X3

Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3535
4 HMX	0.5000	0.4520	90.4	65-135
8 RDX	0.5000	0.4499	90.0	68-130
9 2,4,6-Trinitrophenol	0.5000	0.5151	103.0	80-120
11 1,3,5-Trinitrobenzene	0.5000	0.5018	100.4	73-125
12 1,3-Dinitrobenzene	0.5000	0.4976	99.5	78-120
13 Nitrobenzene	0.5000	0.5060	101.2	65-134
14 3,5-Dinitroaniline	0.5000	0.4915	98.3	71-117
15 Tetryl	0.5000	0.5018	100.4	64-128
16 Nitroglycerin	5.00	5.01	100.1	74-127
17 2,4,6-Trinitrotoluene	0.5000	0.4764	95.3	71-123
18 4-Amino-2,6-dinitrotolu	0.5000	0.4969	99.4	76-125
19 2-Amino-4,6-dinitrotolu	0.5000	0.4860	97.2	79-120
20 2,6-Dinitrotoluene	0.5000	0.4963	99.3	77-127
21 2,4-Dinitrotoluene	0.5000	0.4811	96.2	78-120
22 o-Nitrotoluene	0.5000	0.4850	97.0	70-127
23 p-Nitrotoluene	0.5000	0.4768	95.4	71-127
24 m-Nitrotoluene	0.5000	0.4770	95.4	73-125
25 PETN	5.00	5.19	103.8	73-127

Samples for Limit Group: 1, Lims Prep Method: 3535

280-190264-C-6-A	410-168708-B-13-A	410-168533-E-1-A
410-168533-D-2-A	410-168533-E-3-A	410-168533-D-4-A
410-168533-E-5-A	410-168533-D-6-A	410-168533-E-8-A
410-168533-D-9-A	410-168533-B-10-A	410-168533-C-11-A
410-168533-B-12-A	410-168533-B-13-A	410-168533-B-14-A
410-168533-C-15-A	280-190487-B-1-A	280-190487-B-2-A
280-190487-B-3-A	280-190487-B-4-A	280-190487-B-5-A
280-190487-B-6-A	280-190487-B-7-A	280-190487-B-8-A
280-190487-B-9-A	280-190487-B-10-A	280-190487-B-11-A
280-190487-B-12-A	280-190487-B-13-A	280-190487-B-14-A
280-190487-B-15-A	280-190487-B-16-A	

Reagent

8330 LCSMix2_00113

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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ilac-MRA A2LA 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. : 31451 **Lot No.:** A0199657

Description : 8330 Calibration Mix #2

8330 Calibration Std #2 1000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : July 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Tetryl	479-45-8	211028JLM	99%	1,010.0 µg/mL	+/- 47.1183
2	4-Amino-2,6-dinitrotoluene	19406-51-0	ER070908-01	99%	1,008.0 µg/mL	+/- 47.0250
3	2-Amino-4,6-dinitrotoluene	35572-78-2	A210503-001	99%	1,006.0 µg/mL	+/- 46.9317
4	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,010.0 µg/mL	+/- 47.1183
5	2-Nitrotoluene	88-72-2	BCBZ7826	99%	1,000.0 µg/mL	+/- 46.6518
6	4-Nitrotoluene	99-99-0	BCCB0171	99%	1,006.0 µg/mL	+/- 46.9317
7	3-Nitrotoluene	99-08-1	07329LG	99%	1,006.0 µg/mL	+/- 46.9317

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

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

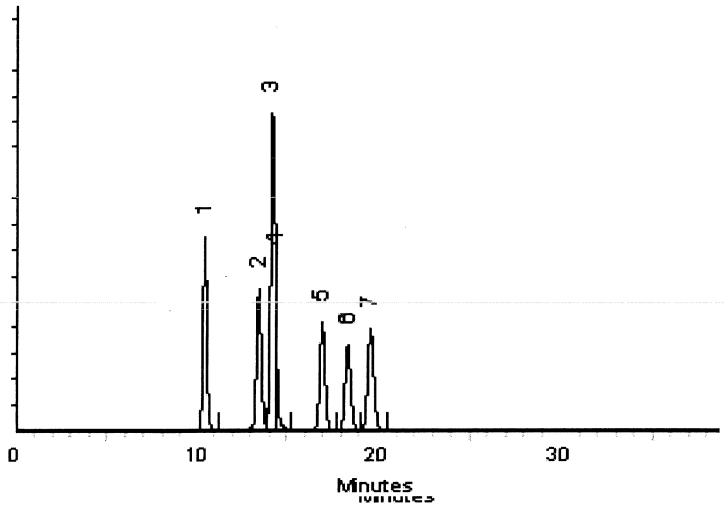
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
5µl



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.

Alicia Leathers - Operation Technician I

Date Mixed: 07-Jul-2023 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Jul-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330 LCSMix2_00114

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ilac-MRA A2LA 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. : 31451 **Lot No.:** A0199657

Description : 8330 Calibration Mix #2

8330 Calibration Std #2 1000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : July 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Tetryl	479-45-8	211028JLM	99%	1,010.0 µg/mL	+/- 47.1183
2	4-Amino-2,6-dinitrotoluene	19406-51-0	ER070908-01	99%	1,008.0 µg/mL	+/- 47.0250
3	2-Amino-4,6-dinitrotoluene	35572-78-2	A210503-001	99%	1,006.0 µg/mL	+/- 46.9317
4	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,010.0 µg/mL	+/- 47.1183
5	2-Nitrotoluene	88-72-2	BCBZ7826	99%	1,000.0 µg/mL	+/- 46.6518
6	4-Nitrotoluene	99-99-0	BCCB0171	99%	1,006.0 µg/mL	+/- 46.9317
7	3-Nitrotoluene	99-08-1	07329LG	99%	1,006.0 µg/mL	+/- 46.9317

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

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

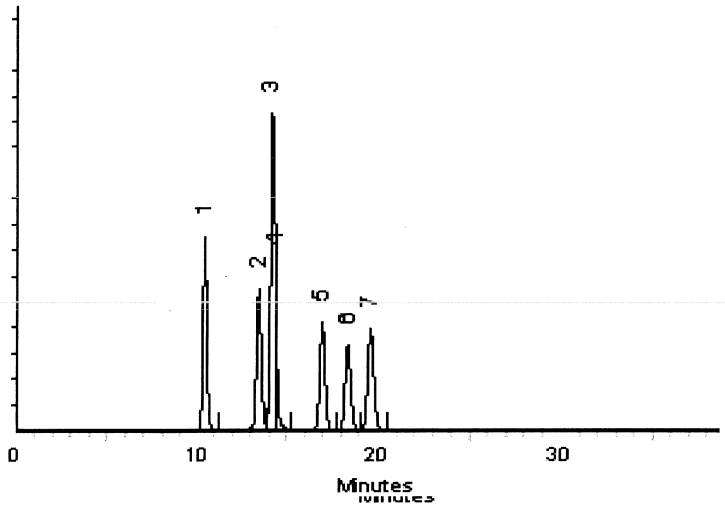
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
5µl



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.

Alicia Leathers - Operation Technician I

Date Mixed: 07-Jul-2023 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Jul-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330 Stock_TS_00024

Agilent

Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Stock Standard

Product Number: NAIM-833E-1

Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006684308

Lot Issue Date: 01-Jun-2022

Expiration Date: 30-Jun-2025

Component Name	CERTIFIED VALUES Concentration	Expanded Uncertainty	CAS#	Analyte Lot
HMX	1001	± 5 µg/mL	002691-41-0	RM06237
RDX	1001	± 5 µg/mL	000121-82-4	RM10915
1,3,5-trinitrobenzene	1001	± 5 µg/mL	000099-35-4	RM17843
m-dinitrobenzene	1002	± 5 µg/mL	000099-65-0	RM14290
nitrobenzene	1002	± 5 µg/mL	000098-95-3	RM11472
2,4,6-trinitrotoluene (TNT)	1001	± 5 µg/mL	000118-96-7	RM16204
2,4-dinitrotoluene	1002	± 5 µg/mL	000121-14-2	RM10279
tetryl	1003	± 5 µg/mL	000479-45-8	RM14651
2,6-dinitrotoluene	1003	± 5 µg/mL	000606-20-2	RM16636
2-nitrotoluene	1003	± 5 µg/mL	000088-72-2	NT01996
3-nitrotoluene	1002	± 5 µg/mL	000099-08-1	NT02212
4-nitrotoluene	1003	± 5 µg/mL	000099-99-0	NT02096
2-amino-4,6-dinitrotoluene	1003	± 5 µg/mL	035572-78-2	RM04232
4-amino-2,6-dinitrotoluene	1004	± 5 µg/mL	019406-51-0	RM04226

Matrix: acetonitrile

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Reagent

8330_NG_Stk_00145

RESTEK

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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA 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. : 568871 **Lot No.:** A0201048

Description : Custom Nitroglycerin Standard

Custom Nitroglycerin Standard 5,000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : August 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitroglycerin	55-63-0	200507JLM	99%	5,008.0 µg/mL	+/- 236.3643

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

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

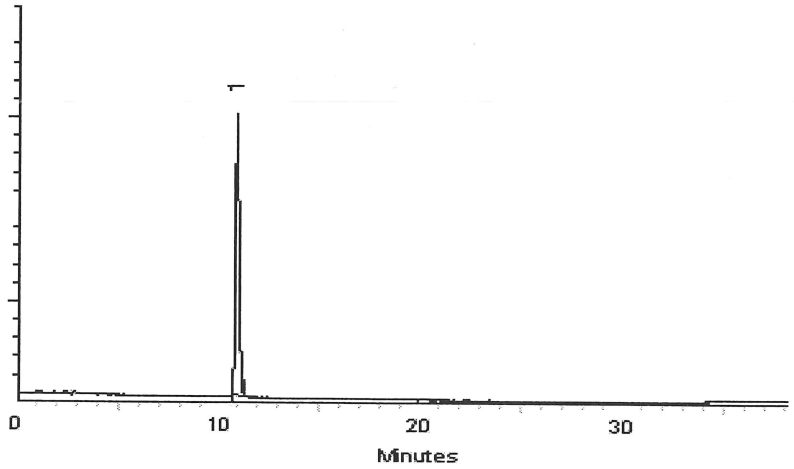
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
2.0µl



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

Kylie Struble - Operations Technician I

Date Mixed: 16-Aug-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330_NG_Stk_00147

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

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. : 568871 **Lot No.:** A0201048

Description : Custom Nitroglycerin Standard

Custom Nitroglycerin Standard 5,000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : August 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitroglycerin	55-63-0	200507JLM	99%	5,008.0 µg/mL	+/- 236.3643

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

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

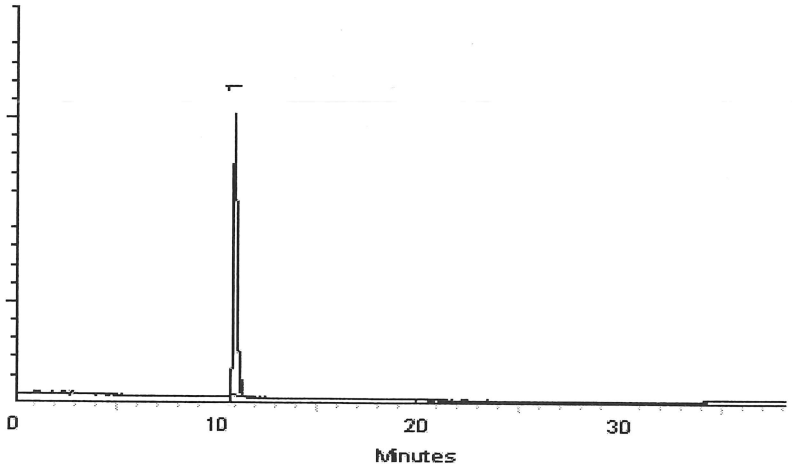
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
2.0µl



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

Kylie Struble - Operations Technician I

Jennifer Pollino - Operations Tech III - ARM QC

Date Mixed: 16-Aug-2023 **Balance Serial #** 1128360905

Date Passed: 25-Aug-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330_NG_Stk_00148

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

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. : 568871 **Lot No.:** A0203257

Description : Custom Nitroglycerin Standard

Custom Nitroglycerin Standard 5,000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : October 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitroglycerin	55-63-0	200507JLM	99%	5,004.0 µg/mL	+/- 236.1755

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

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

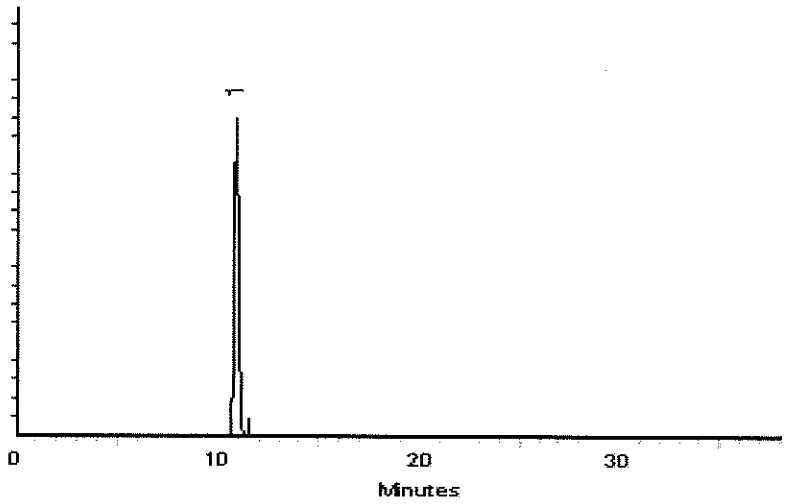
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
2.0µl



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

Jennifer Pollino - Operations Tech III - ARM QC

Date Mixed: 17-Oct-2023 **Balance Serial #** B442140311

Date Passed: 19-Oct-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330_NG_Stk_00150

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

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. : 568871 **Lot No.:** A0203257

Description : Custom Nitroglycerin Standard

Custom Nitroglycerin Standard 5,000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : October 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitroglycerin	55-63-0	200507JLM	99%	5,004.0 µg/mL	+/- 236.1755

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

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

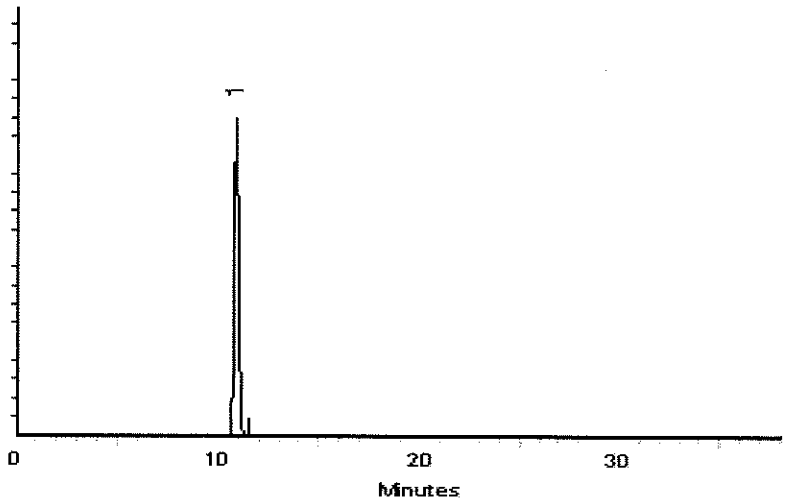
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
2.0µl



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: 17-Oct-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 19-Oct-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330_NG1000_00011

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31498 **Lot No.:** A0197032

Description : Nitroglycerin Standard

Nitroglycerin Standard 1,000µg/mL, Methanol, 1mL/ampul

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

Expiration Date : April 30, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitroglycerin	55-63-0	200507JLM	99%	1,006.0 µg/mL	+/- 46.9317

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

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330_NG1000_00012

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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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. : 31498 **Lot No.:** A0197032

Description : Nitroglycerin Standard

Nitroglycerin Standard 1,000µg/mL, Methanol, 1mL/ampul

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

Expiration Date : April 30, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitroglycerin	55-63-0	200507JLM	99%	1,006.0 µg/mL	+/- 46.9317

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

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330_NG1000_00014

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA 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. : 31498 **Lot No.:** A0208632

Description : Nitroglycerin Standard

Nitroglycerin Standard 1,000µg/mL, Methanol, 1mL/ampul

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

Expiration Date : March 31, 2029 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitroglycerin	55-63-0	200507JLM	99%	1,002.0 µg/mL	+/- 46.7451

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

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

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

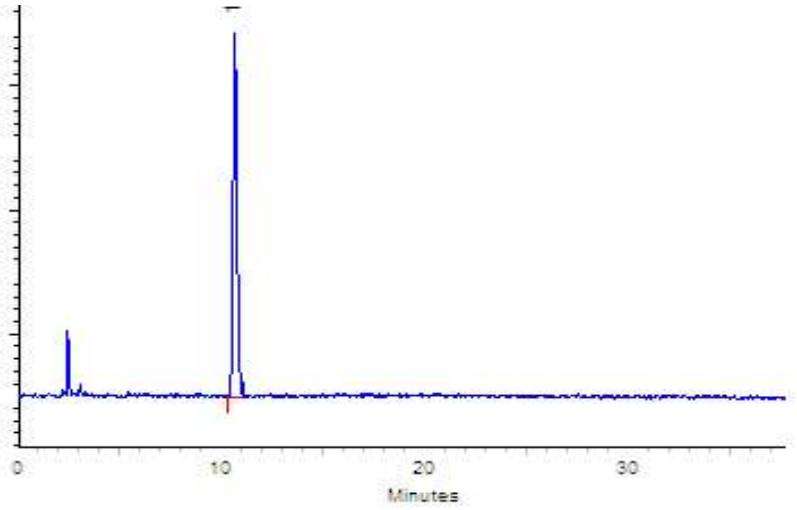
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
5µl



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.

Morgan Craighead - Mix Technician

Date Mixed: 04-Mar-2024 **Balance Serial #** 1128342314

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Mar-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330_PETN_Stk_00152

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

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. : 568872 **Lot No.:** A0198972

Description : Custom PETN Standard

Custom PETN Standard 5,000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : June 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	PETN	78-11-5	051108JLM	99%	5,012.0 µg/mL	+/- 236.5531

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

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

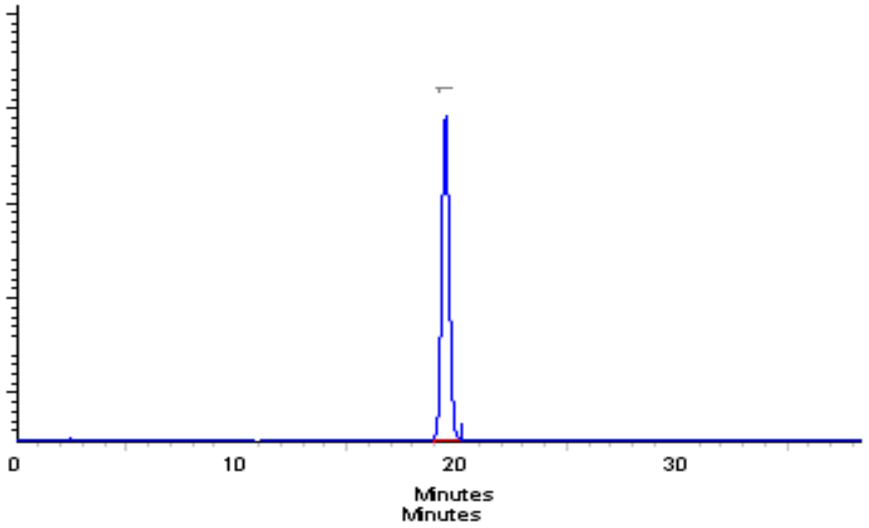
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
1µl



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

Bryan Snyder - Operations Tech I

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

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jun-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330_PETN_Stk_00153

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

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. : 568872 **Lot No.:** A0198972

Description : Custom PETN Standard

Custom PETN Standard 5,000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : June 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	PETN	78-11-5	051108JLM	99%	5,012.0 µg/mL	+/- 236.5531

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

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

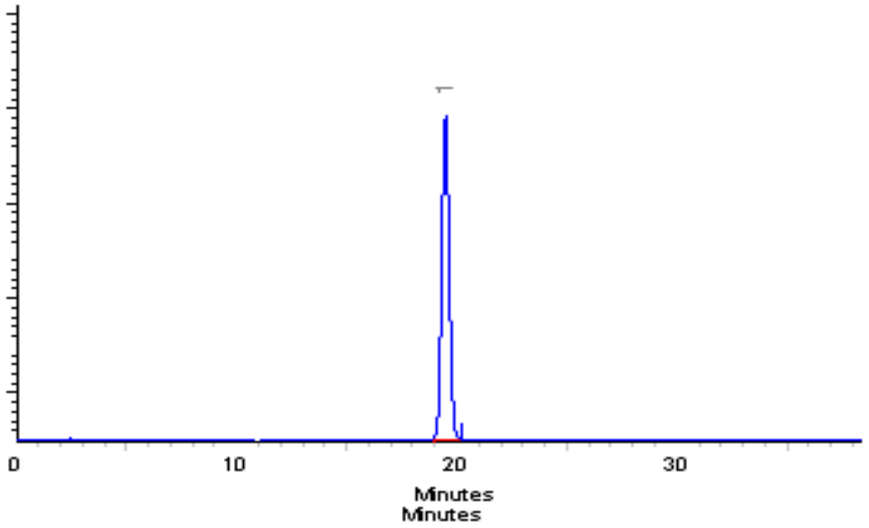
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
1µl



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

Bryan Snyder - Operations Tech I

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

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jun-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330_PETN_Stk_00154

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

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. : 568872 **Lot No.:** A0198972

Description : Custom PETN Standard

Custom PETN Standard 5,000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : June 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	PETN	78-11-5	051108JLM	99%	5,012.0 µg/mL	+/- 236.5531

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

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

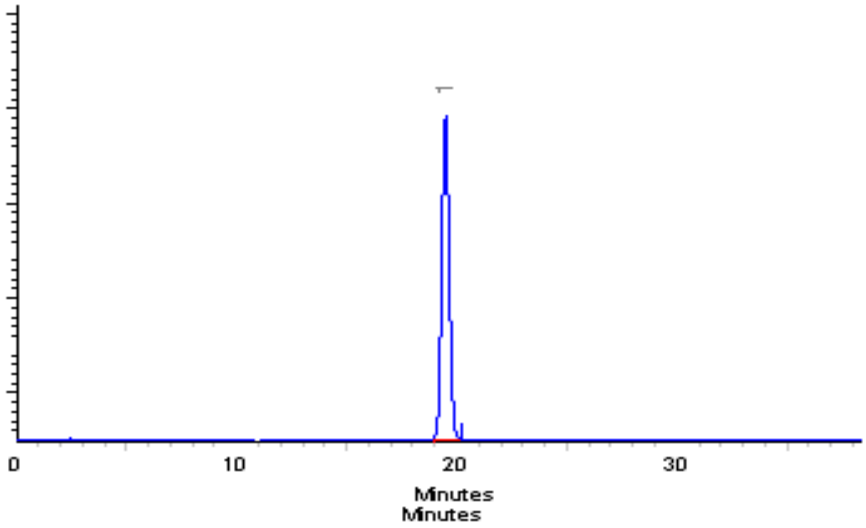
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
1µl



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

Bryan Snyder - Operations Tech I

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

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jun-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330_PETN_Stk_00156

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

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. : 568872 **Lot No.:** A0205209

Description : Custom PETN Standard

Custom PETN Standard 5,000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : December 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	PETN	78-11-5	051108JLM	99%	5,028.0 µg/mL	+/- 237.3082

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

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

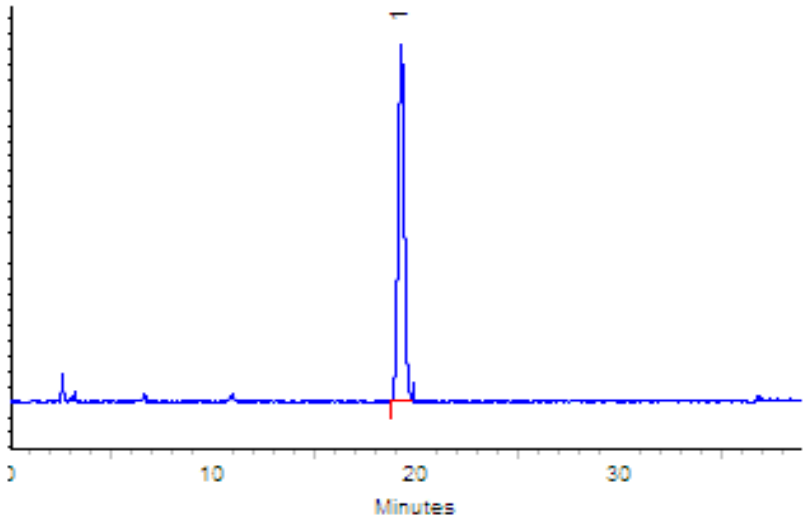
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
1µl



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

Russ Bookhamer - Operations Technician I

Date Mixed: 07-Dec-2023 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 12-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330_PETN1000_00015

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31600 **Lot No.:** A0198747

Description : PETN Standard

PETN Standard 1000µg/mL, Methanol, 1mL/ampul

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

Expiration Date : June 30, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	PETN	78-11-5	051108JLM	99%	1,003.0 µg/mL	+/- 46.7917

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

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330_PETN1000_00016

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31600 **Lot No.:** A0198747

Description : PETN Standard

PETN Standard 1000µg/mL, Methanol, 1mL/ampul

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

Expiration Date : June 30, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	PETN	78-11-5	051108JLM	99%	1,003.0 µg/mL	+/- 46.7917

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

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330_PETN1000_00017

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Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31600 **Lot No.:** A0207895

Description : PETN Standard

PETN Standard 1000µg/mL, Methanol, 1mL/ampul

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

Expiration Date : February 28, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	PETN	78-11-5	051108JLM	99%	1,006.3 µg/mL	+/- 46.9434

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

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

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

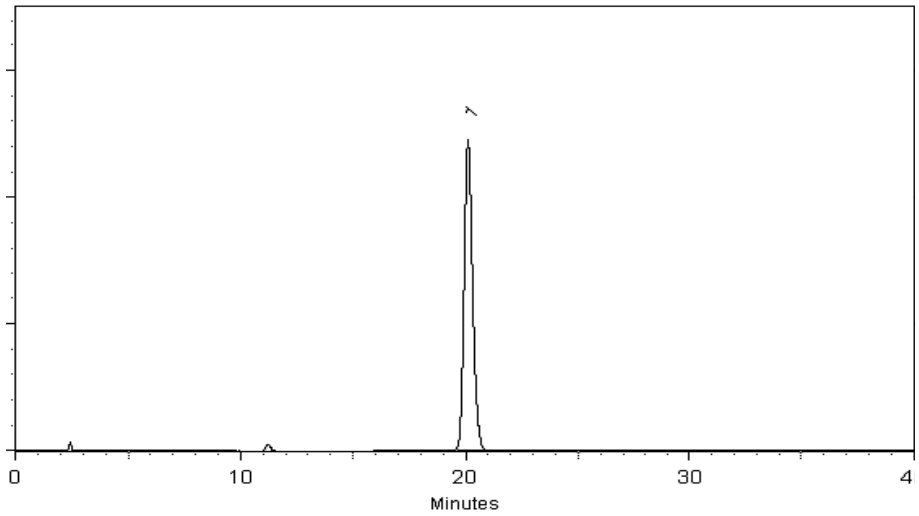
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
2µl



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

John Friedline - Operations Technician I

Date Mixed: 15-Feb-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 20-Feb-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

833035DNAStk_00057

125 Market Street
New Haven, CT 06513
USA

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

CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-4
Description: 3,5-Dinitroaniline
Lot: 223041214
Solvent: Methanol (50%)
Acetonitrile (50%)
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Apr 14, 2023
Expiration: May 14, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463

ilac-MRA

Component	CAS #	Purity[3] %	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
3,5-Dinitroaniline	618-87-1	100.0	100.8	100.8

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

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

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

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

[2] All weights are traceable through NIST, Test No. 684/291344-18 & 684/292805-19

[3] Purity/Identity determined by one or more of the following methods: GC/MS, LC/MS, NMR, FTIR, Melting Point.

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

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

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

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

Reagent

833035DNAStk_00059

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CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-4
Description: 3,5-Dinitroaniline
Lot: 223041214
Solvent: Methanol (50%)
Acetonitrile (50%)
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Apr 14, 2023
Expiration: May 14, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463

ilac-MRA

Component	CAS #	Purity[3] %	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
3,5-Dinitroaniline	618-87-1	100.0	100.8	100.8

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

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

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

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

[2] All weights are traceable through NIST, Test No. 684/291344-18 & 684/292805-19

[3] Purity/Identity determined by one or more of the following methods: GC/MS, LC/MS, NMR, FTIR, Melting Point.

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

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

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

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

Reagent

8330LCSMix1_00151

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31450 **Lot No.:** A0196548

Description : 8330 Calibration Mix #1

8330 Calibration Std #1 1000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : April 30, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	HMX	2691-41-0	220927JLM	99%	1,010.0 µg/mL	+/- 47.1183
2	RDX	121-82-4	080228JLM	99%	1,002.0 µg/mL	+/- 46.7451
3	1,3,5-Trinitrobenzene	99-35-4	A6TDK	99%	1,010.0 µg/mL	+/- 47.1183
4	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,008.0 µg/mL	+/- 47.0250
5	Nitrobenzene	98-95-3	10224044	99%	1,009.0 µg/mL	+/- 47.0716
6	2,4,6-Trinitrotoluene	118-96-7	D13332500	99%	1,007.0 µg/mL	+/- 46.9783
7	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,006.0 µg/mL	+/- 46.9317

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

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

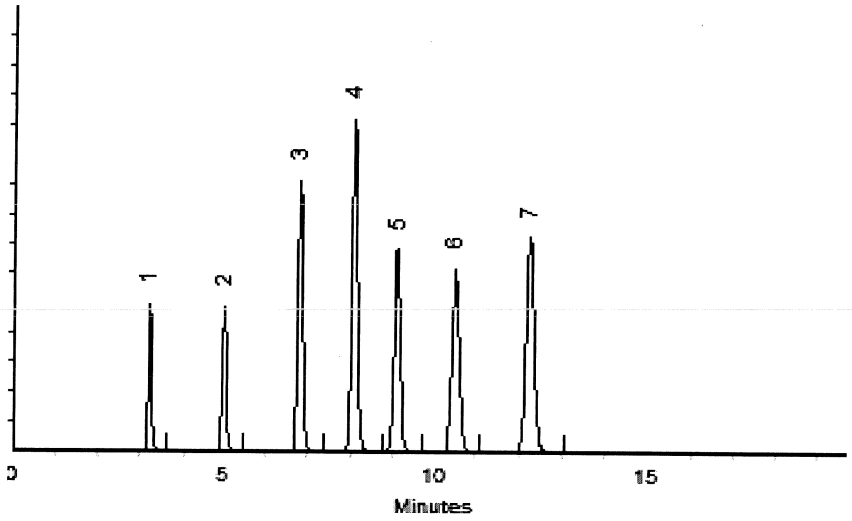
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
2µl



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

Sam Moodler - Operations Tech I

Date Mixed: 03-Apr-2023 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Apr-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330LCSMix1_00152

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CERTIFIED REFERENCE MATERIAL

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ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

Certificate of Analysis

chromatographic plus

ilac-MRA
A2LA ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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

Catalog No. : 31450 **Lot No.:** A0196548

Description : 8330 Calibration Mix #1

8330 Calibration Std #1 1000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : April 30, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	HMX	2691-41-0	220927JLM	99%	1,010.0 µg/mL	+/- 47.1183
2	RDX	121-82-4	080228JLM	99%	1,002.0 µg/mL	+/- 46.7451
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4	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,008.0 µg/mL	+/- 47.0250
5	Nitrobenzene	98-95-3	10224044	99%	1,009.0 µg/mL	+/- 47.0716
6	2,4,6-Trinitrotoluene	118-96-7	D13332500	99%	1,007.0 µg/mL	+/- 46.9783
7	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,006.0 µg/mL	+/- 46.9317

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

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

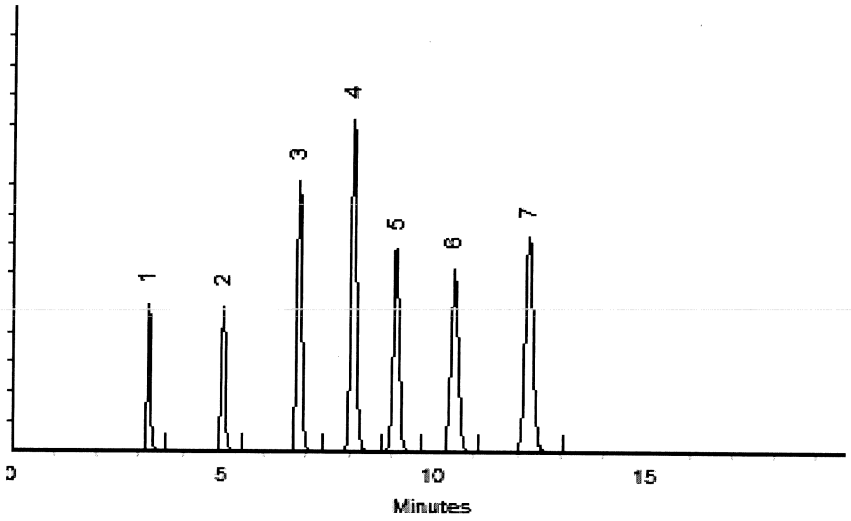
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
2µl



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

Sam Moodler - Operations Tech I

Date Mixed: 03-Apr-2023 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Apr-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330PAStkPS_00074

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CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-3
Description: Picric acid
Lot: 223031306
Solvent: Acetonitrile (50%)
Methanol (50%)
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Mar 23, 2023
Expiration: Apr 23, 2025
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity[3] %	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
Picric acid	88-89-1	99.1	100.4	99.5

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

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

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

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

[2] All weights are traceable through NIST, Test No. 684/291344-18 & 684/292805-19

[3] Purity/Identity determined by one or more of the following methods: GC/MS, LC/MS, NMR, FTIR, Melting Point.

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

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

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

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

Reagent

8330PAStkPS_00075

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CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-3
Description: Picric acid
Lot: 223041157
Solvent: Acetonitrile (50%)
Methanol (50%)
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Apr 12, 2023
Expiration: May 12, 2025
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity³ %	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Picric acid	88-89-1	99.1	100.3	99.4

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

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

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

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

² All weights are traceable through NIST, Test No. 684/291344-18 & 684/292805-19

³ Purity/Identity determined by one or more of the following methods: GC/MS, LC/MS, NMR, FTIR, Melting Point.

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

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

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

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

Reagent

8330Surrogate_00155

Preliminary Report

Eurofins Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\CHHPLC_X\20240426-132709.b\8330SURR155.D

Lims ID: 8330Surr155 Inj. Date: 26-Apr-2024 15:49:11

Worklist ID: 280-0132709-056 Instrument: CHHPLC_X3

Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3535
$ 10 1,2-Dinitrobenzene	0.5000	0.4971	99.4	83-119

Samples for Limit Group: 1, Lims Prep Method: 3535

280-190264-C-6-A	410-168708-B-13-A	410-168533-E-1-A
410-168533-D-2-A	410-168533-E-3-A	410-168533-D-4-A
410-168533-E-5-A	410-168533-D-6-A	410-168533-E-8-A
410-168533-D-9-A	410-168533-B-10-A	410-168533-C-11-A
410-168533-B-12-A	410-168533-B-13-A	410-168533-B-14-A
410-168533-C-15-A	280-190487-B-1-A	280-190487-B-2-A
280-190487-B-3-A	280-190487-B-4-A	280-190487-B-5-A
280-190487-B-6-A	280-190487-B-7-A	280-190487-B-8-A
280-190487-B-9-A	280-190487-B-10-A	280-190487-B-11-A
280-190487-B-12-A	280-190487-B-13-A	280-190487-B-14-A
280-190487-B-15-A	280-190487-B-16-A	

Reagent

8330SurrStkSS_00310

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31453 **Lot No.:** A0200577

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

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

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,003.0 µg/mL	+/- 56.3574

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

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

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

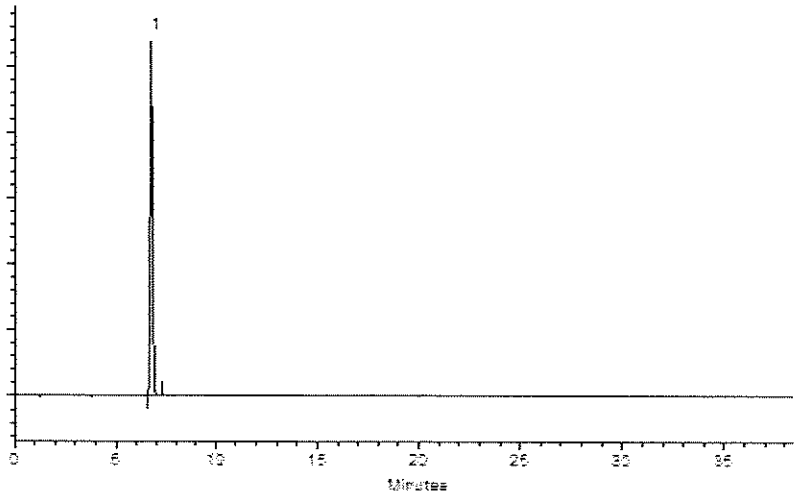
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
2.0µl



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.

Laith Clemente - Operations Technician I **Date Mixed:** 03-Aug-2023 **Balance Serial #** B707717271

Jennifer Polino - Operations Tech III - ARM QC **Date Passed:** 21-Aug-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330SurrStkSS_00311

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31453 **Lot No.:** A0200577

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

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

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,003.0 µg/mL	+/- 56.3574

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

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

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

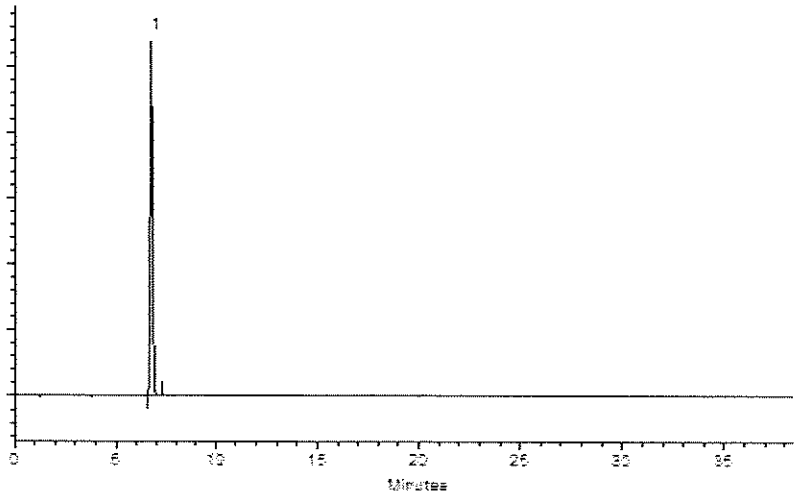
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
2.0µl



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.

Laith Clemente - Operations Technician I **Date Mixed:** 03-Aug-2023 **Balance Serial #** B707717271

Jennifer Polino - Operations Tech III - ARM QC **Date Passed:** 21-Aug-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330SurrStkSS_00312

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31453 **Lot No.:** A0200577

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

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

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,003.0 µg/mL	+/- 56.3574

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

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

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

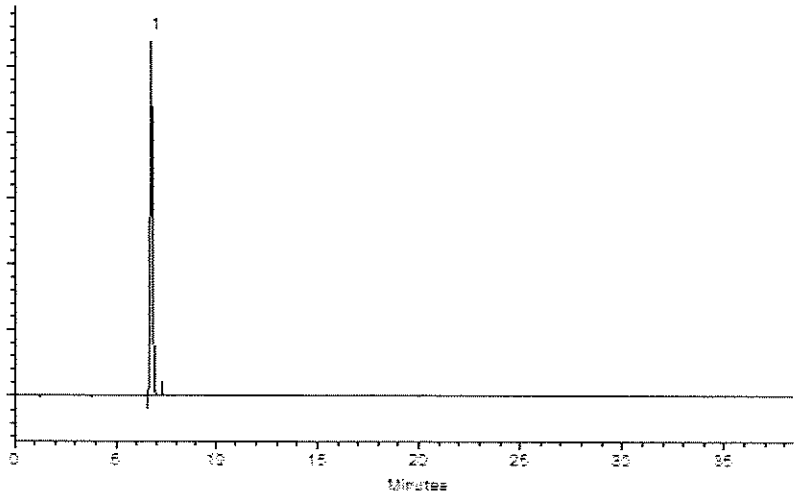
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
2.0µl



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.

Laith Clemente - Operations Technician I **Date Mixed:** 03-Aug-2023 **Balance Serial #** B707717271

Jennifer Polino - Operations Tech III - ARM QC **Date Passed:** 21-Aug-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330SurrStkSS_00313

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31453 **Lot No.:** A0200577

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

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

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,003.0 µg/mL	+/- 56.3574

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

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

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

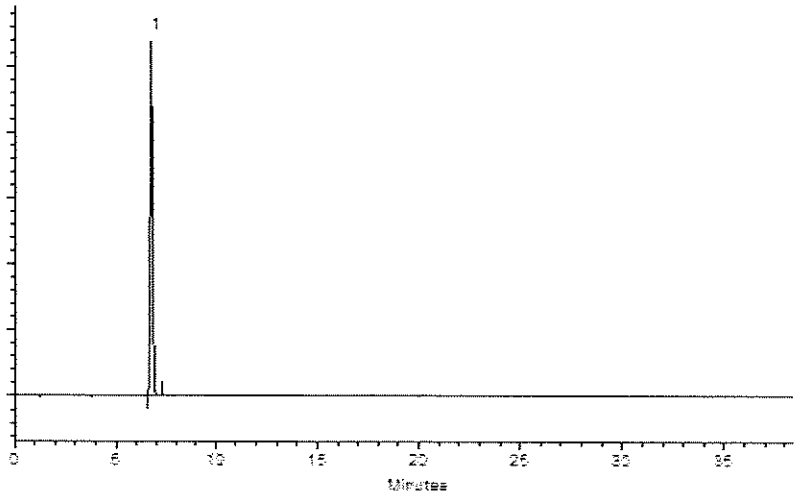
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
2.0µl



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.

Laith Clemente - Operations Technician I **Date Mixed:** 03-Aug-2023 **Balance Serial #** B707717271

Jennifer Polino - Operations Tech III - ARM QC **Date Passed:** 21-Aug-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330SurrStkSS_00314

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31453 **Lot No.:** A0200577

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

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

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,003.0 µg/mL	+/- 56.3574

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

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

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

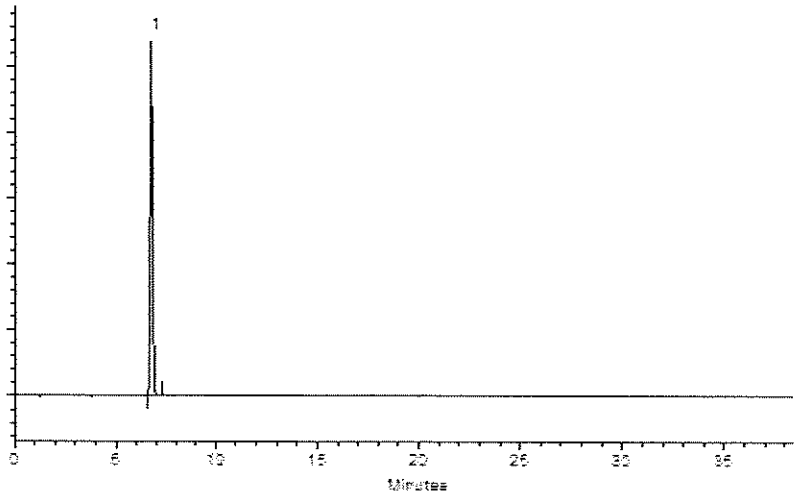
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
2.0µl



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.

Laith Clemente - Operations Technician I **Date Mixed:** 03-Aug-2023 **Balance Serial #** B707717271

Jennifer Polino - Operations Tech III - ARM QC **Date Passed:** 21-Aug-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330SurrStkSS_00315

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31453 **Lot No.:** A0200577

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

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

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,003.0 µg/mL	+/- 56.3574

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

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

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

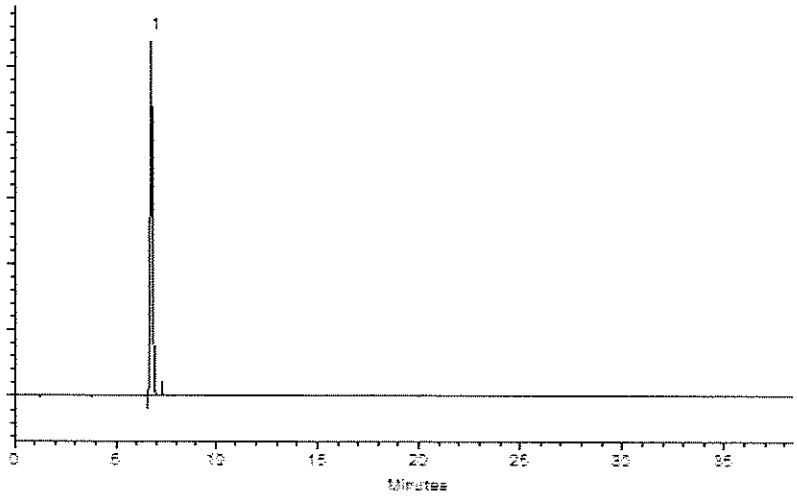
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
2.0µl



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.

Laith Clemente - Operations Technician I **Date Mixed:** 03-Aug-2023 **Balance Serial #** B707717271

Jennifer Polino - Operations Tech III - ARM QC **Date Passed:** 21-Aug-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

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Manufacturing Notes:

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

Handling Notes:

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Reagent

8330SurrStkSS_00316

RESTEK
110 Benner Circle
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Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31453 **Lot No.:** A0200577

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

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

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,003.0 µg/mL	+/- 56.3574

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

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

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

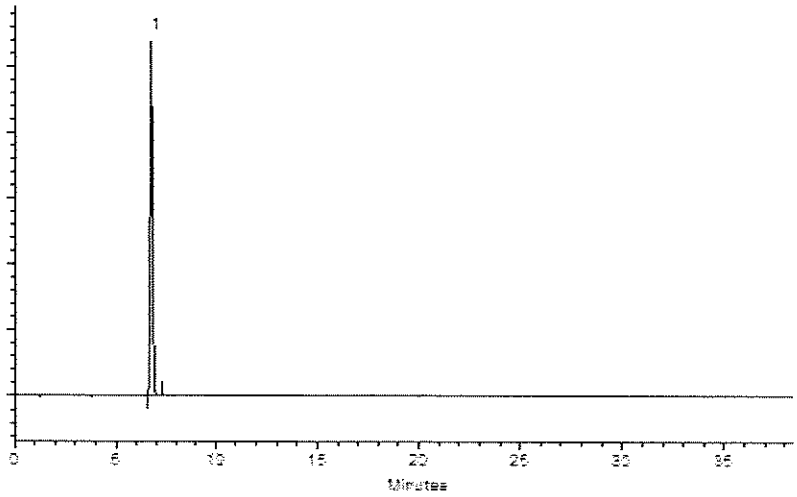
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
2.0µl



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.

Laith Clemente - Operations Technician I **Date Mixed:** 03-Aug-2023 **Balance Serial #** B707717271

Jennifer Polino - Operations Tech III - ARM QC **Date Passed:** 21-Aug-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330SurrStkSS_00317

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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Catalog No. : 31453 **Lot No.:** A0200577

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

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

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,003.0 µg/mL	+/- 56.3574

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

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

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

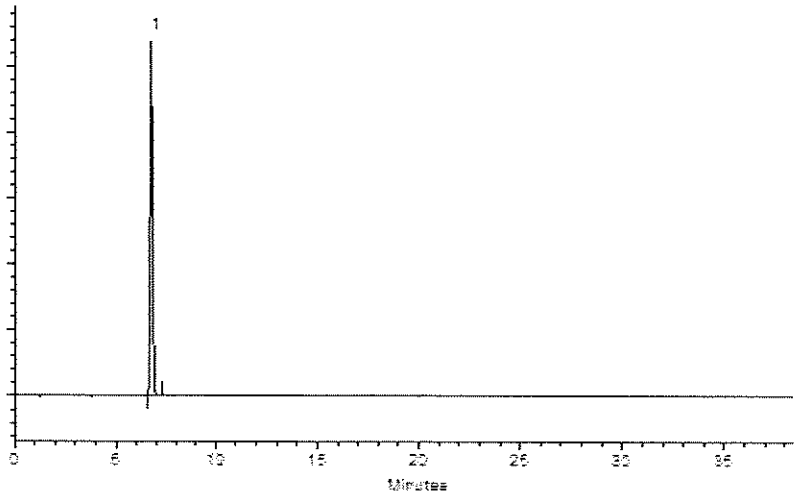
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
2.0µl



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.

Laith Clemente - Operations Technician I **Date Mixed:** 03-Aug-2023 **Balance Serial #** B707717271

Jennifer Polino - Operations Tech III - ARM QC **Date Passed:** 21-Aug-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330SurrStkSS_00318

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31453 **Lot No.:** A0205460

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

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

Expiration Date : December 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dinitrobenzene	528-29-0	RP231117RSR	99%	1,004.0 µg/mL	+/- 56.4136

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

Solvent: Methanol

CAS # 67-56-1

Purity 99%

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

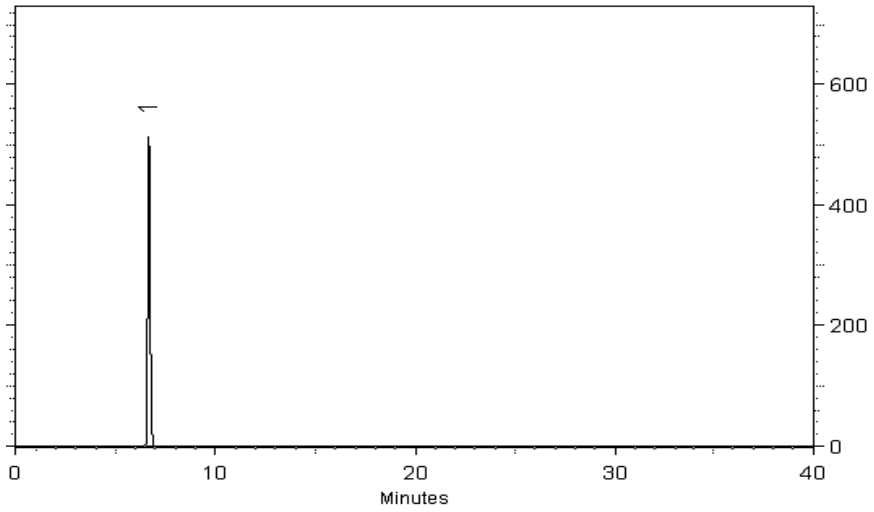
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
2.0µl



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.

Malina Homan - Operations Technician I

Date Mixed: 13-Dec-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 19-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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Manufacturing Notes:

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

Handling Notes:

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

8330SurrStkSS_00319

RESTEK
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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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Mobile Phase Composition:
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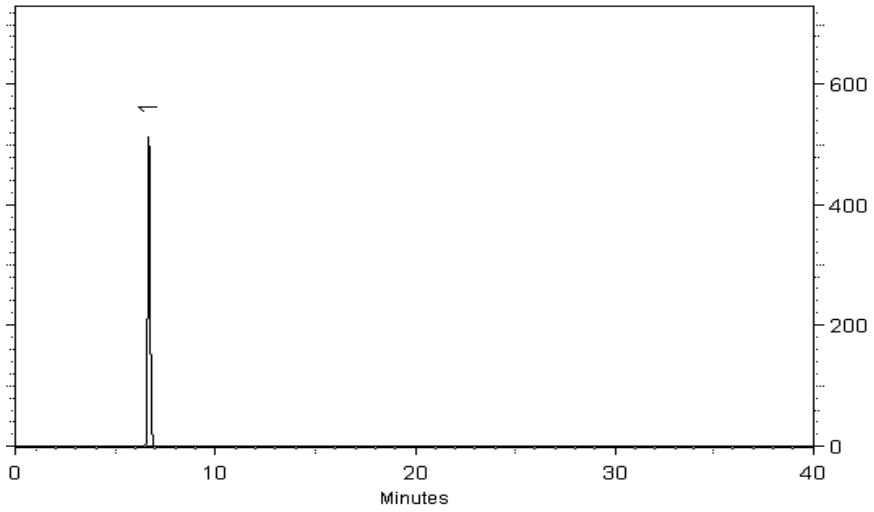
Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
2.0µl



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Malina Homan - Operations Technician I

Date Mixed: 13-Dec-2023 **Balance Serial #** B707717271

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Date Passed: 19-Dec-2023

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

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

Reagent

8330SurrStock_00173

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

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

CERTIFICATE OF ANALYSIS

Catalog No: M-8330-SS
Description: 1,2-Dinitrobenzene
Lot: 219051500
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: May 22, 2019
Expiration: May 22, 2029
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ILAC-MRA

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
1,2-Dinitrobenzene	528-29-0	100.0	1002	1002

This Certified Reference Material was verified in accordance with ISO/IEC 17025

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

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

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

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

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

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

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

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 7/20

Reagent

IC N03 cal_00030

RICCA CHEMICAL COMPANY®

448 West Fork Dr
Arlington, TX 76012
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

Nitrate Nitrogen Standard, 1000 ppm N (4427 ppm NO_3^-)

Lot Number: 1304R00 **Product Number:** 5459

Manufacture Date: APR 27, 2023
Expiration Date: OCT 2024

The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is based upon the volumetric method of preparation.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Chloroform	67-66-3	
Potassium Nitrate	7757-79-1	High Purity

Test	Specification	Result
Appearance	Colorless liquid	Passed
Nitrogen (N)	995-1005 ppm	1000 ppm

Specification	Reference
Nitrate Solution, Stock (1.0 mL = 1.0 mg NO3-N)	ASTM (D 3867 A)
Nitrate Solution, Stock (1.0 mL = 1.0 mg NO3-N)	ASTM (D 3867 B)
Stock Nitrate Solution: 1 mL = 1.0 mg NO3-N	EPA (353.2)
Stock Nitrate Solution: 1.0 mL = 1.00 mg NO3-N	EPA (353.3)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
5459-16	500 mL natural poly	18 months
5459-4	120 mL natural poly	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Heidi J Green (04/27/2023)
Operations Manager
This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

Reagent

IC NO3 ICV_00020

Certified Reference Material

▪ Certificate of Analysis ▪

Product: 1000 mg/L Nitrate as N (NO_3-N)
Catalog Number: 052-125mL, 991-500mL
Lot No. 341022m
Starting Material: Potassium Nitrate (KNO_3)
Matrix: 18 megohm deionized water
Density: 1.0066 ± 0.0003 g/mL , 20.8 °C and 766 mm Hg
Verification Method: Ion Chromatography
Certificate Issue Date: December 13, 2022
Expiration Date: October 13, 2024
Revision Number: Original

CERTIFICATION

Parameter	Certified Value[1]	Uncertainty[2]	NIST Traceability	
	mg/L	%	SRM Number[3]	Recovery %
Nitrate as N (NO_3-N)	1000	0.672	3185	102

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ 800.372.0122 ▪ 303.431.8454 ▪ fax 303.421.0159 ▪ www.eraqc.com

1. The **Certified Value** is the actual gravimetric/volumetric "made-to" concentration confirmed by ERA analytical verification. The certified value is monitored and the purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

4. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

5. **Storage**: 20-25°C

6. **Intended Use**: This standard is intended to be used to calibrate your analytical process and/or as a quality control check of the entire process for the analytes/matrix included in the standard.

7. **Minimum Sample Size**: ERA suggests that when subsampling this product prior to analysis, you use a minimum sample size of at least 1 mL. Using a smaller sample size may invalidate the assigned value and/or uncertainty shown.

8. **Repeat Sampling**: Repeated Sampling of this product is permitted, provided minimum sample sizes and storage instructions are adhered to.

9. **Safety**: ERA products may be hazardous and are intended for use by professional laboratory personnel trained in the competent handling of such materials. Responsibility for the safe use of these products rests entirely with the buyer and/or user. Safety Data Sheets (SDS) for all ERA products are available through our website: www.eraqc.com

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer
Brian Miller

Quality Officer
Matthew Seebeck

ISO 17034:2016 ACCREDITED Reference Material Producer CERT #1539.03

ISO/IEC 17025:2017 ACCREDITED Chemical Testing Laboratory CERT #1539.02

Reagent

MNX,TNX,DNX_00092

Agilent
Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Custom Standard
Product Number: CUS-23984
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006744504
Lot Issue Date: 17-May-2023
Expiration Date: 30-Jun-2024

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)	100.4	±	0.5 µg/mL	N/A	RM12426
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane (DNX)	100.2	±	0.5 µg/mL	N/A	RM12428
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX)	116.9	±	0.6 µg/mL	N/A	RM12428

Matrix: acetonitrile

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20ºC to 25ºC immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Agilent
Trusted Answers

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

Reagent

mv-30241_00010

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30241 **Lot No.:** A0180349

Description : 8260A Internal Standard Mix

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

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

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Fluorobenzene **CAS #** 462-06-6 (Lot BCBZ5549) **Purity** 99%	2,500.6 µg/mL	+/- 14.5387 µg/mL +/- 140.2062 µg/mL +/- 143.4868 µg/mL	Gravimetric Unstressed Stressed
2	Chlorobenzene-d5 **CAS #** 3114-55-4 (Lot PR-29571) **Purity** 99%	2,500.8 µg/mL	+/- 14.5399 µg/mL +/- 140.2174 µg/mL +/- 143.4983 µg/mL	Gravimetric Unstressed Stressed
3	1,4-Dichlorobenzene-d4 **CAS #** 3855-82-1 (Lot PR-30447) **Purity** 99%	2,500.2 µg/mL	+/- 14.5364 µg/mL +/- 140.1837 µg/mL +/- 143.4639 µg/mL	Gravimetric Unstressed Stressed

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

Revd 4/5/22

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

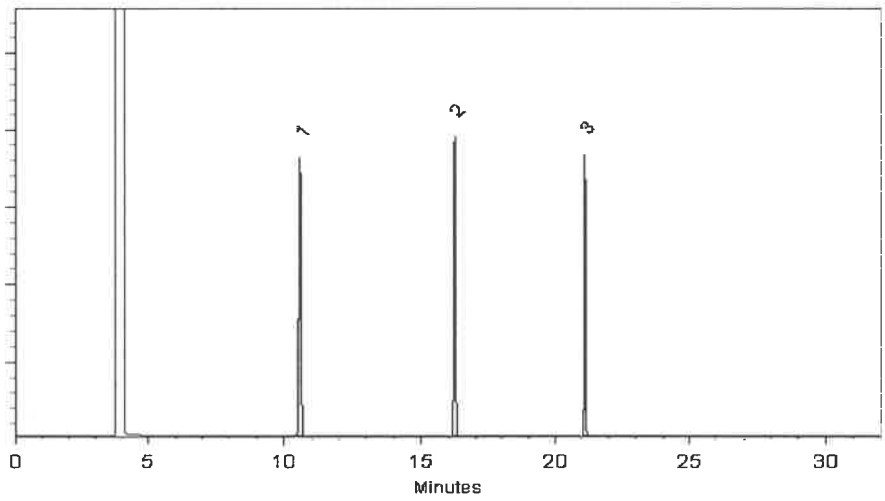
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Jan-2022 **Balance:** B707717271

Marlina Cowan - Operations Tech I

Date Passed: 10-Jan-2022

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

Reagent

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30241 **Lot No.:** A0198297

Description : 8260A Internal Standard Mix

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

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

Expiration Date : May 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Fluorobenzene	462-06-6	BCBZ5549	99%	2,504.7 µg/mL	+/- 140.7155
2	Chlorobenzene-d5	3114-55-4	PR-29571	99%	2,513.3 µg/mL	+/- 141.2024
3	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,515.3 µg/mL	+/- 141.3148

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

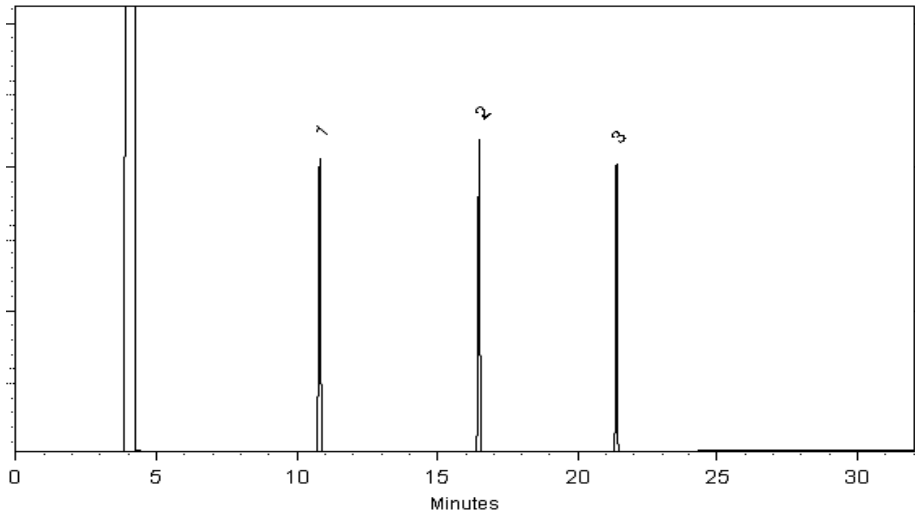
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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

Bryan Snyder - Operations Tech I

Date Mixed: 22-May-2023 **Balance Serial #** 1128342314

Dillan Murphy - Operations Technician I

Date Passed: 24-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MV-567650_00030

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567650 **Lot No.:** A0172587

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500µg/mL, P&T Methanol, 5mL/ampul

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

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 012021) **Purity** 99%	2,510.9 µg/mL	+/- 14.5983 µg/mL +/- 140.7809 µg/mL +/- 144.0750 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot PR-29377) **Purity** 99%	2,518.0 µg/mL	+/- 14.6399 µg/mL +/- 141.1818 µg/mL +/- 144.4852 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot PR-31750) **Purity** 99%	2,500.4 µg/mL	+/- 14.5375 µg/mL +/- 140.1949 µg/mL +/- 143.4753 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KO) **Purity** 99%	2,520.9 µg/mL	+/- 14.6567 µg/mL +/- 141.3444 µg/mL +/- 144.6516 µg/mL	Gravimetric Unstressed Stressed

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

Rcvd 4/5/20

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

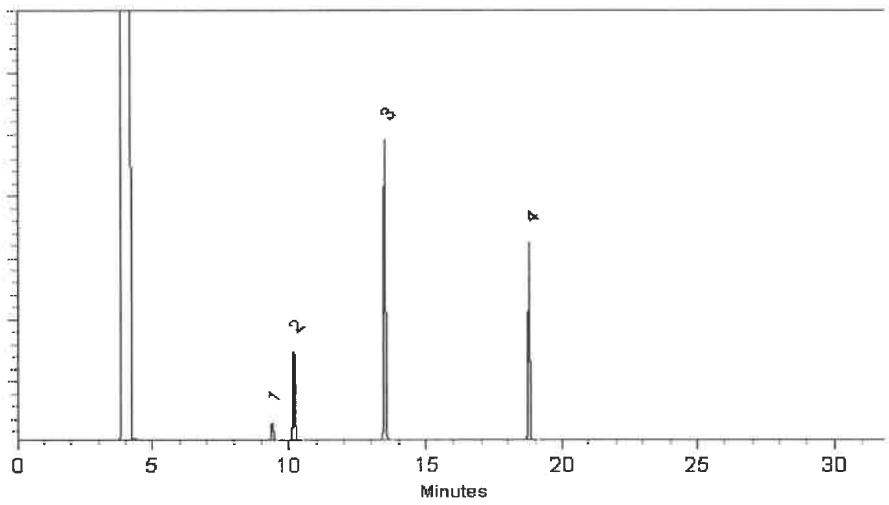
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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: 19-May-2021 **Balance:** B707717271

Alexis Shelow - Operations Tech I

Date Passed: 21-May-2021

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Reagent

MV-568720.sec_00040

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

Catalog No. : 568720.SEC **Lot No.:** A0197460

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul

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

Expiration Date : October 31, 2024 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acrolein	107-02-8.SEC	RD230405RSRA	98%	19,921.9 µg/mL	+/- 585.2659

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

Solvent: Water
CAS # 7732-18-5
Purity 99%

Rcvd 7/15/23

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

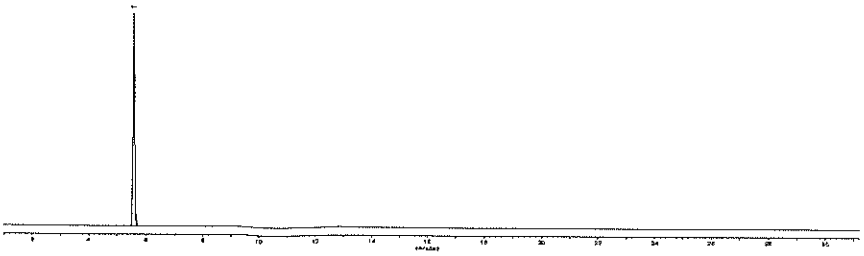
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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

John Friedline - Operations Technician I

Date Mixed: 26-Apr-2023 **Balance Serial #** 1128342314

John Lidgett - AD Chemist

Date Passed: 08-May-2023

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

Reagent

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

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

Rec 5/25/23

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

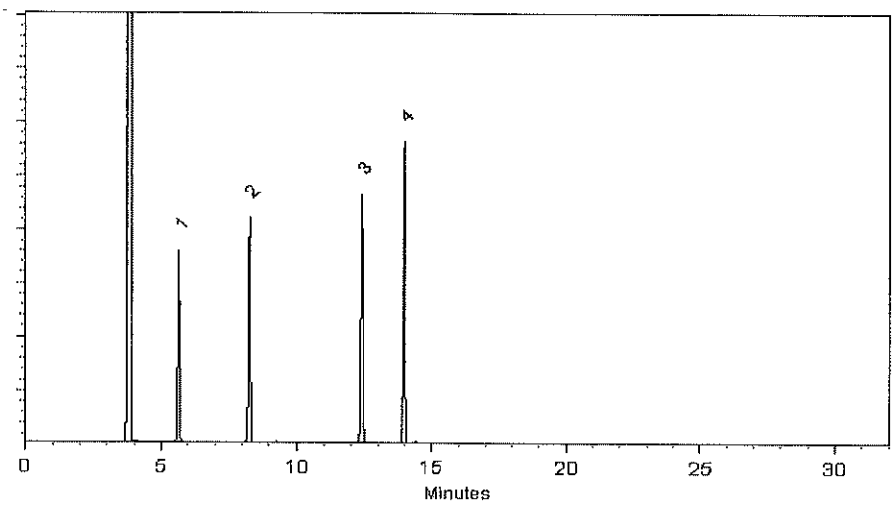
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



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

Bryan Snyder - Operations Tech I

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

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Feb-2023

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

Reagent

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

Catalog No. : 569722.SEC **Lot No.:** A0197640

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

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

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8.SEC	28302	99%	2,519.8 µg/mL	+/- 142.0069
2	Chloromethane (methyl chloride)	74-87-3.SEC	00016950	99%	2,503.3 µg/mL	+/- 142.0942
3	Vinyl chloride	75-01-4.SEC	MKBK6872V	99%	2,508.3 µg/mL	+/- 141.4767
4	1,3-Butadiene	106-99-0.SEC	26996	99%	2,521.0 µg/mL	+/- 142.1930
5	Bromomethane (methyl bromide)	74-83-9.SEC	00017022	99%	2,516.4 µg/mL	+/- 141.9614
6	Chloroethane (ethyl chloride)	75-00-3.SEC	00004202	98%	2,532.0 µg/mL	+/- 143.0282
7	Dichlorofluoromethane (CFC-21)	75-43-4 *	14150400	90%	2,502.0 µg/mL	+/- 140.5515
8	Trichlorofluoromethane (CFC-11)	75-69-4.SEC	00010739	99%	2,524.7 µg/mL	+/- 143.6054

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

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.**

Rev'd 5/11/23

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

Quality Confirmation Test

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

Carrier Gas:
helium-constant pressure 30 psi

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

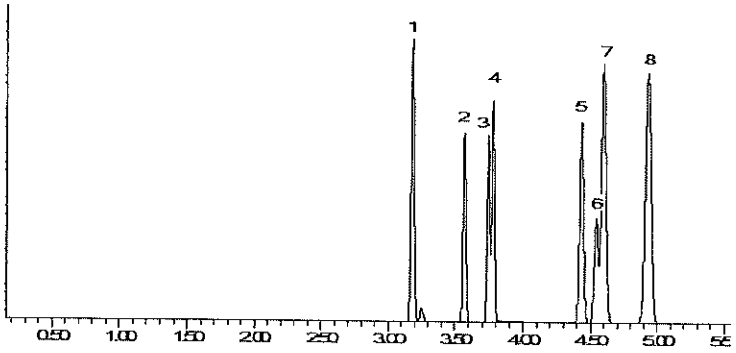
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
25.0 ml/min.

Inj. Vol
1µl



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

Lane Kibe - Mix Technician **Date Mixed:** 02-May-2023 **Balance Serial #** 1128342314

Marlina Cowan – Operations Tech II ARM QC **Date Passed:** 09-May-2023

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

Reagent

MV-569723.sec_00015

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Certificate of Analysis

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

Catalog No. : 569723.SEC **Lot No.:** A0193808

Description : 8260 List 1 / Std #4 2-CEVE (2015)

~~8260 List 1~~ / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol, ~~1mL/ampul~~

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

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Chloroethyl vinyl ether	110-75-8.SEC	AMBTF	99%	2,513.3 µg/mL	+/- 31.2789

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

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

rev 5/1/23

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

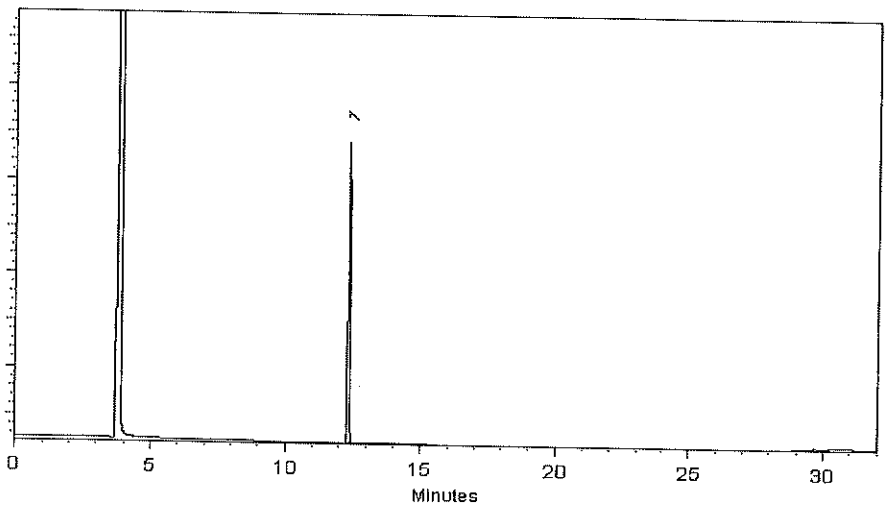
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



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

Malina Homan - Operations Technician I

Date Mixed: 20-Jan-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2023

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

Reagent

MV-569724.sec_00037

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Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569724.SEC **Lot No.:** A0197959

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5,000µg/mL, P&T Methanol, 1mL/ampul

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

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

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	SEC RD230301RSRA	98%	5,044.4 µg/mL	+/- 174.3571

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

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

Tech Tips:

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

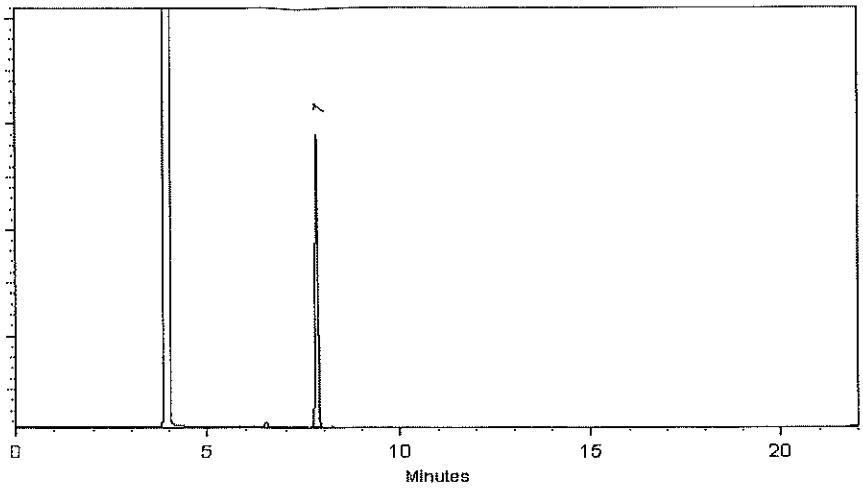
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



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

John Friedline - Operations Technician I

Date Mixed: 11-May-2023 **Balance Serial #** 1128342314

Dillan Murphy - Operations Technician I

Date Passed: 17-May-2023

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

Reagent

MV-569727.sec_00013

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

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Catalog No. : 569727.SEC **Lot No.:** A0195344

Description : 8260 List 2/ Std #3 Cyclohexanone (2015)

8260 List 2/ Std #3 Cyclohexanone (2015) 25,000µg/mL, Water, 1mL/ampul

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

Expiration Date : March 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Cyclohexanone	108-94-1.SEC	GA3TF	99%	25,205.1 µg/mL	+/- 871.1479

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

Solvent: Water
CAS # 7732-18-5
Purity 99%

Rcvd 7/15/23

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

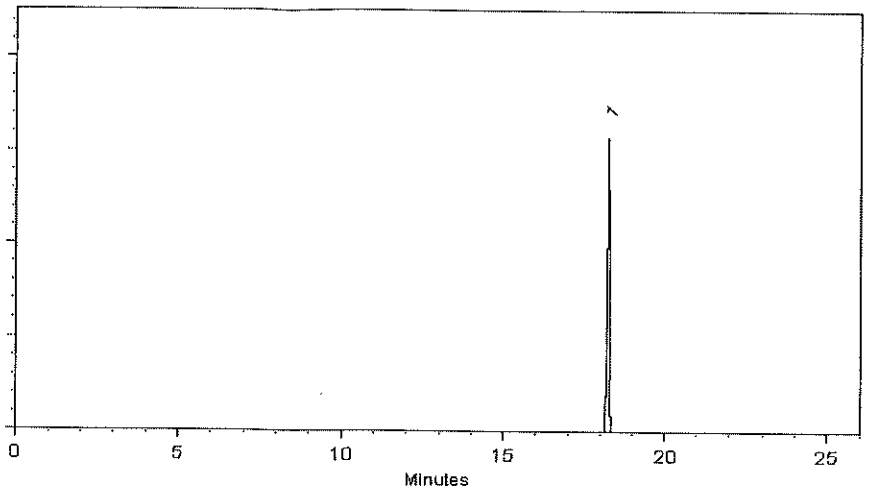
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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

Jess Hoy - Operations Tech I

Date Mixed: 01-Mar-2023 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Mar-2023

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

Reagent

MV-571992.sec_00010

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

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Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 571992.SEC **Lot No.:** A0195252

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

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

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Diethyl ether (ethyl ether)	60-29-7.SEC	F23X068	99%	2,516.7 µg/mL	+/- 86.9644
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1.SEC	18342	99%	2,520.0 µg/mL	+/- 87.0795
3	1,1-Dichloroethene	75-35-4.SEC	13896500	99%	2,525.0 µg/mL	+/- 87.2523
4	tert-Butanol (TBA)	75-65-0.SEC	DI34O	99%	25,129.5 µg/mL	+/- 868.3580
5	Methyl acetate	79-20-9.SEC	UCNEL	99%	5,029.0 µg/mL	+/- 173.7790
6	Iodomethane (methyl iodide)	74-88-4.SEC	Y25A027	99%	2,521.7 µg/mL	+/- 87.1371
7	Allyl chloride (3-chloropropene)	107-05-1.SEC	RD210329	99%	2,518.2 µg/mL	+/- 87.0162
8	Methylene chloride (dichloromethane)	75-09-2.SEC	FGM02	99%	2,516.7 µg/mL	+/- 86.9644
9	Carbon disulfide	75-15-0.SEC	MKBL1376V	99%	2,511.7 µg/mL	+/- 86.7916
10	Acrylonitrile	107-13-1.SEC	V54AD	99%	25,200.3 µg/mL	+/- 870.8057
11	Methyl-tert-butyl ether (MTBE)	1634-04-4.SEC	CDCQG	99%	2,517.3 µg/mL	+/- 86.9874
12	cis-1,2-Dichloroethene	156-59-2.SEC	YZO5O	99%	2,515.3 µg/mL	+/- 86.9183
13	n-Hexane (C6)	110-54-3.SEC	10188491	99%	2,514.7 µg/mL	+/- 86.8953
14	1,1-Dichloroethane	75-34-3.SEC	1026.30-3	98%	2,512.6 µg/mL	+/- 86.8223
15	2,2-Dichloropropane	594-20-7.SEC	GI01	99%	2,521.5 µg/mL	+/- 87.1314
16	trans-1,2-Dichloroethene	156-60-5.SEC	L5QOH	99%	2,525.0 µg/mL	+/- 87.2523

17	Isobutanol (2-Methyl-1-propanol)	78-83-1.SEC PH2XK	99%	62,830.8	µg/mL	+/- 2,171.1398
18	Chloroform	67-66-3.SEC 1297547	99%	2,511.7	µg/mL	+/- 86.7916
19	Bromochloromethane	74-97-5 * 230206JLM	99%	2,515.7	µg/mL	+/- 86.9298
20	Tetrahydrofuran	109-99-9.SEC 3NYHE	99%	5,018.5	µg/mL	+/- 173.4162
21	1,1,1-Trichloroethane	71-55-6.SEC 13891800	99%	2,506.5	µg/mL	+/- 86.6130
22	Cyclohexane	110-82-7.SEC YADRA	99%	2,523.3	µg/mL	+/- 87.1947
23	1,1-Dichloropropene	563-58-6.SEC 556500	99%	2,520.5	µg/mL	+/- 87.0968
24	Carbon tetrachloride	56-23-5.SEC 11466	99%	2,520.5	µg/mL	+/- 87.0968
25	n-Heptane (C7)	142-82-5.SEC TFHUC	99%	2,516.5	µg/mL	+/- 86.9586
26	1,2-Dichloroethane	107-06-2.SEC 00016165	99%	2,519.8	µg/mL	+/- 87.0738
27	Benzene	71-43-2.SEC 101960P29K	99%	2,518.8	µg/mL	+/- 87.0392
28	Trichloroethene	79-01-6.SEC H04X050	99%	2,524.3	µg/mL	+/- 87.2293
29	Methylcyclohexane	108-87-2.SEC Q02QG	99%	2,515.8	µg/mL	+/- 86.9356
30	1,2-Dichloropropane	78-87-5.SEC ERRBI-RH	99%	2,516.8	µg/mL	+/- 86.9701
31	1,4-Dioxane	123-91-1.SEC QHRWO	99%	50,137.2	µg/mL	+/- 1,732.5061
32	Dibromomethane	74-95-3.SEC MOKKJ	99%	2,516.3	µg/mL	+/- 86.9528
33	cis-1,3-Dichloropropene	10061-01-5.SEC ZLXJ-TJ	99%	2,502.8	µg/mL	+/- 86.4863
34	Toluene	108-88-3.SEC YND2B-BD	99%	2,522.2	µg/mL	+/- 87.1544
35	Ethyl methacrylate	97-63-2.SEC AQSPO	99%	2,510.8	µg/mL	+/- 86.7628
36	trans-1,3-Dichloropropene	10061-02-6.SEC DMSL	98%	2,517.1	µg/mL	+/- 86.9804
37	1,1,2-Trichloroethane	79-00-5.SEC 9245400	99%	2,512.2	µg/mL	+/- 86.8089
38	1,3-Dichloropropane	142-28-9.SEC IQCON	99%	2,519.3	µg/mL	+/- 87.0565
39	Tetrachloroethene	127-18-4.SEC F09W014	99%	2,521.3	µg/mL	+/- 87.1256
40	Dibromochloromethane	124-48-1.SEC 10234064	99%	2,517.5	µg/mL	+/- 86.9932
41	1,2-Dibromoethane (EDB)	106-93-4.SEC 050675P15E	99%	2,518.3	µg/mL	+/- 87.0220
42	Chlorobenzene	108-90-7.SEC 1161936	99%	2,515.8	µg/mL	+/- 86.9356
43	m-Xylene	108-38-3.SEC 7ZV6F	99%	1,255.3	µg/mL	+/- 43.3814
44	p-Xylene	106-42-3.SEC D6UOA	99%	1,260.3	µg/mL	+/- 43.5541
45	Ethylbenzene	100-41-4.SEC PI4SE	99%	2,517.7	µg/mL	+/- 86.9989
46	1,1,1,2-Tetrachloroethane	630-20-6.SEC 13789800	99%	2,517.5	µg/mL	+/- 86.9932
47	o-Xylene	95-47-6.SEC UJ6RI	99%	2,515.8	µg/mL	+/- 86.9356
48	Styrene	100-42-5.SEC QGQ7F	99%	2,521.3	µg/mL	+/- 87.1256
49	Isopropylbenzene (cumene)	98-82-8.SEC 7P24L	99%	2,515.0	µg/mL	+/- 86.9068
50	Bromoform	75-25-2.SEC 13723500	99%	2,522.5	µg/mL	+/- 87.1659
51	Bromodichloromethane	75-27-4.SEC 28128	99%	2,524.2	µg/mL	+/- 87.2235
52	1,1,2,2-Tetrachloroethane	79-34-5.SEC BCCD5088	99%	2,523.7	µg/mL	+/- 87.2063

53	1,2,3-Trichloropropane	96-18-4.SEC 6V2ED	99%	2,522.2	µg/mL	+/- 87.1544
54	trans-1,4-Dichloro-2-butene	110-57-6.SEC RD230316RSR	96%	2,517.0	µg/mL	+/- 86.9745
55	n-Propylbenzene	103-65-1.SEC XCGEC	99%	2,518.8	µg/mL	+/- 87.0392
56	Bromobenzene	108-86-1.SEC 2FUHG-EM	99%	2,518.3	µg/mL	+/- 87.0220
57	1,3,5-Trimethylbenzene	108-67-8.SEC GI2SM	99%	2,514.3	µg/mL	+/- 86.8837
58	2-Chlorotoluene	95-49-8.SEC BRHPM	99%	2,515.7	µg/mL	+/- 86.9298
59	4-Chlorotoluene	106-43-4.SEC S5SKD	99%	2,518.8	µg/mL	+/- 87.0392
60	tert-Butylbenzene	98-06-6.SEC D6OHC	99%	2,522.0	µg/mL	+/- 87.1487
61	1,2,4-Trimethylbenzene	95-63-6.SEC JHZDD	99%	2,517.3	µg/mL	+/- 86.9874
62	sec-Butylbenzene	135-98-8.SEC O4HRF	99%	2,522.0	µg/mL	+/- 87.1487
63	4-Isopropyltoluene (p-cymene)	99-87-6.SEC 13889300	98%	2,518.1	µg/mL	+/- 87.0142
64	1,3-Dichlorobenzene	541-73-1.SEC ZA2ZI	99%	2,515.0	µg/mL	+/- 86.9068
65	1,4-Dichlorobenzene	106-46-7.SEC J5GVD	99%	2,522.5	µg/mL	+/- 87.1659
66	n-Butylbenzene	104-51-8.SEC MMPGA	99%	2,523.7	µg/mL	+/- 87.2063
67	1,2-Dichlorobenzene	95-50-1.SEC R6QDM	99%	2,512.0	µg/mL	+/- 86.8031
68	1,2-Dibromo-3-chloropropane	96-12-8.SEC Q135-105	99%	2,517.7	µg/mL	+/- 86.9989
69	1,2,4-Trichlorobenzene	120-82-1.SEC IGLFA	99%	2,515.7	µg/mL	+/- 86.9298
70	Hexachlorobutadiene	87-68-3.SEC 13889400	97%	2,520.4	µg/mL	+/- 87.0928
71	Naphthalene	91-20-3.SEC AM5NG	99%	2,520.0	µg/mL	+/- 87.0795
72	1,2,3-Trichlorobenzene	87-61-6.SEC A0043055	99%	2,517.8	µg/mL	+/- 87.0047

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

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.**

Quality Confirmation Test

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

Carrier Gas:
hellum-constant pressure 30 psi

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

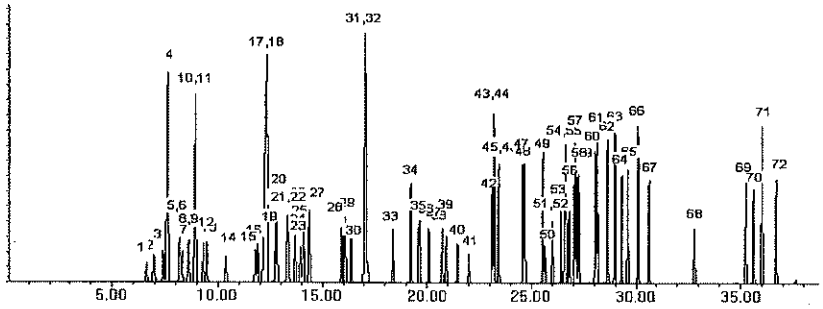
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
20.0 ml/min.

Inj. Vol
0.2µl



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John Friedline - Operations Technician I

Date Mixed: 28-Feb-2023 **Balance Serial #** 1127510105

Christie Mills - Operations Tech II - ARM QC

Date Passed: 22-Mar-2023

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

Reagent

MV-571992_00015

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Bellefonte, PA 16823-8812
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Catalog No. : 571992 **Lot No.:** A0183568

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : September 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	Diethyl ether (ethyl ether) **CAS #** 60-29-7 (Lot SHBN4280) **Purity** 99%	2,506.6 µg/mL	+/- 14.5737 µg/mL +/- 151.2358 µg/mL +/- 151.5949 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00016133) **Purity** 99%	2,514.5 µg/mL	+/- 14.6195 µg/mL +/- 151.7109 µg/mL +/- 152.0711 µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene **CAS #** 75-35-4 (Lot SHBG8609V) **Purity** 99%	2,515.1 µg/mL	+/- 14.6232 µg/mL +/- 151.7486 µg/mL +/- 152.1089 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot 101619K21F-1) **Purity** 99%	25,080.8 µg/mL	+/- 145.8140 µg/mL +/- 1,513.2321 µg/mL +/- 1,516.8247 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9 (Lot SHBM1320) **Purity** 99%	5,026.6 µg/mL	+/- 29.2252 µg/mL +/- 303.2786 µg/mL +/- 303.9986 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot RD220125) **Purity** 99%	2,505.3 µg/mL	+/- 14.5657 µg/mL +/- 151.1528 µg/mL +/- 151.5117 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot RD211021) **Purity** 99%	2,509.1 µg/mL	+/- 14.5883 µg/mL +/- 151.3866 µg/mL +/- 151.7460 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane)		2,513.3	µg/mL	+/-	14.6123	µg/mL	Gravimetric
	CAS # 75-09-2	(Lot SHBP1417)			+/-	151.6355	µg/mL	Unstressed
	Purity 99%				+/-	151.9955	µg/mL	Stressed
9	Carbon disulfide		2,510.1	µg/mL	+/-	14.5941	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot N28F701)			+/-	151.4470	µg/mL	Unstressed
	Purity 99%				+/-	151.8065	µg/mL	Stressed
10	Acrylonitrile		25,102.9	µg/mL	+/-	145.9426	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot SHBK4954)			+/-	1,514.5670	µg/mL	Unstressed
	Purity 99%				+/-	1,518.1628	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)		2,513.8	µg/mL	+/-	14.6152	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBN6497)			+/-	151.6657	µg/mL	Unstressed
	Purity 99%				+/-	152.0258	µg/mL	Stressed
12	cis-1,2-Dichloroethene		2,515.1	µg/mL	+/-	14.6232	µg/mL	Gravimetric
	CAS # 156-59-2	(Lot MKCP7830)			+/-	151.7486	µg/mL	Unstressed
	Purity 99%				+/-	152.1089	µg/mL	Stressed
13	n-Hexane (C6)		2,515.5	µg/mL	+/-	14.6253	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBL9879)			+/-	151.7713	µg/mL	Unstressed
	Purity 99%				+/-	152.1316	µg/mL	Stressed
14	1,1-Dichloroethane		2,517.9	µg/mL	+/-	14.6391	µg/mL	Gravimetric
	CAS # 75-34-3	(Lot 760200)			+/-	151.9146	µg/mL	Unstressed
	Purity 99%				+/-	152.2752	µg/mL	Stressed
15	2,2-Dichloropropane		2,517.9	µg/mL	+/-	14.6391	µg/mL	Gravimetric
	CAS # 594-20-7	(Lot RD211103)			+/-	151.9146	µg/mL	Unstressed
	Purity 99%				+/-	152.2752	µg/mL	Stressed
16	trans-1,2-Dichloroethene		2,511.4	µg/mL	+/-	14.6014	µg/mL	Gravimetric
	CAS # 156-60-5	(Lot MKBH9850V)			+/-	151.5224	µg/mL	Unstressed
	Purity 99%				+/-	151.8821	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,633.1	µg/mL	+/-	364.1354	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot 098794J01H)			+/-	3,778.9321	µg/mL	Unstressed
	Purity 99%				+/-	3,787.9040	µg/mL	Stressed
18	chloroform		2,510.9	µg/mL	+/-	14.5984	µg/mL	Gravimetric
	CAS # 67-66-3	(Lot SHBN8469)			+/-	151.4922	µg/mL	Unstressed
	Purity 99%				+/-	151.8519	µg/mL	Stressed
19	Bromochloromethane		2,517.0	µg/mL	+/-	14.6341	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00008541)			+/-	151.8618	µg/mL	Unstressed
	Purity 99%				+/-	152.2223	µg/mL	Stressed
20	Tetrahydrofuran		5,036.1	µg/mL	+/-	29.2805	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBN3757)			+/-	303.8517	µg/mL	Unstressed
	Purity 99%				+/-	304.5731	µg/mL	Stressed
21	1,1,1-trichloroethane		2,509.6	µg/mL	+/-	14.5912	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot RD220215)			+/-	151.4168	µg/mL	Unstressed
	Purity 99%				+/-	151.7763	µg/mL	Stressed
22	Cyclohexane		2,510.0	µg/mL	+/-	14.5934	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot EA003-US)			+/-	151.4394	µg/mL	Unstressed
	Purity 99%				+/-	151.7990	µg/mL	Stressed
23	1,1-Dichloropropene		2,513.8	µg/mL	+/-	14.6152	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 220217JLM)			+/-	151.6657	µg/mL	Unstressed
	Purity 99%				+/-	152.0258	µg/mL	Stressed

24	carbon tetrachloride		2,513.5	µg/mL	+/-	14.6137	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBL8097)			+/-	151.6506	µg/mL	Unstressed
	Purity 99%				+/-	152.0106	µg/mL	Stressed
25	n-Heptane (C7)		2,511.4	µg/mL	+/-	14.6014	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SGBL9221)			+/-	151.5224	µg/mL	Unstressed
	Purity 99%				+/-	151.8821	µg/mL	Stressed
26	1,2-Dichloroethane		2,514.4	µg/mL	+/-	14.6188	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot MKCN9758)			+/-	151.7034	µg/mL	Unstressed
	Purity 99%				+/-	152.0636	µg/mL	Stressed
27	Benzene		2,509.3	µg/mL	+/-	14.5890	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot MKCM9242)			+/-	151.3942	µg/mL	Unstressed
	Purity 99%				+/-	151.7536	µg/mL	Stressed
28	Trichloroethene		2,507.5	µg/mL	+/-	14.5788	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBL5816)			+/-	151.2886	µg/mL	Unstressed
	Purity 99%				+/-	151.6478	µg/mL	Stressed
29	Methylcyclohexane		2,510.3	µg/mL	+/-	14.5948	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBL0078)			+/-	151.4545	µg/mL	Unstressed
	Purity 99%				+/-	151.8141	µg/mL	Stressed
30	1,2-Dichloropropane		2,510.9	µg/mL	+/-	14.5984	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	151.4922	µg/mL	Unstressed
	Purity 99%				+/-	151.8519	µg/mL	Stressed
31	1,4-Dioxane		50,187.5	µg/mL	+/-	291.7792	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBM9675)			+/-	3,028.0328	µg/mL	Unstressed
	Purity 99%				+/-	3,035.2219	µg/mL	Stressed
32	Dibromomethane		2,511.0	µg/mL	+/-	14.5992	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10201030)			+/-	151.4998	µg/mL	Unstressed
	Purity 99%				+/-	151.8594	µg/mL	Stressed
33	cis-1,3-Dichloropropene		2,513.8	µg/mL	+/-	14.6152	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot RD220311)			+/-	151.6657	µg/mL	Unstressed
	Purity 99%				+/-	152.0258	µg/mL	Stressed
34	Toluene		2,518.4	µg/mL	+/-	14.6420	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot MKCQ2779)			+/-	151.9447	µg/mL	Unstressed
	Purity 99%				+/-	152.3055	µg/mL	Stressed
35	Ethyl methacrylate		2,511.4	µg/mL	+/-	14.6014	µg/mL	Gravimetric
	CAS # 97-63-2	(Lot MKCL0907)			+/-	151.5224	µg/mL	Unstressed
	Purity 99%				+/-	151.8821	µg/mL	Stressed
36	trans-1,3-Dichloropropene		2,504.5	µg/mL	+/-	14.5615	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot RD211104)			+/-	151.1083	µg/mL	Unstressed
	Purity 98%				+/-	151.4671	µg/mL	Stressed
37	1,1,2-Trichloroethane		2,513.6	µg/mL	+/-	14.6144	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	151.6581	µg/mL	Unstressed
	Purity 99%				+/-	152.0182	µg/mL	Stressed
38	1,3-Dichloropropane		2,513.6	µg/mL	+/-	14.6144	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBC6265)			+/-	151.6581	µg/mL	Unstressed
	Purity 99%				+/-	152.0182	µg/mL	Stressed
39	Tetrachloroethene		2,507.5	µg/mL	+/-	14.5788	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBJ7422)			+/-	151.2886	µg/mL	Unstressed
	Purity 99%				+/-	151.6478	µg/mL	Stressed

40	dibromochloromethane		2,514.8	µg/mL	+/-	14.6210	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCM8659)			+/-	151.7260	µg/mL	Unstressed
	Purity 99%				+/-	152.0862	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,513.9	µg/mL	+/-	14.6159	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCCF5058)			+/-	151.6732	µg/mL	Unstressed
	Purity 99%				+/-	152.0333	µg/mL	Stressed
42	Chlorobenzene		2,507.9	µg/mL	+/-	14.5810	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBL8110)			+/-	151.3112	µg/mL	Unstressed
	Purity 99%				+/-	151.6704	µg/mL	Stressed
43	m-Xylene		1,260.0	µg/mL	+/-	7.3257	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot Q13G020)			+/-	76.0214	µg/mL	Unstressed
	Purity 99%				+/-	76.2019	µg/mL	Stressed
44	p-Xylene		1,258.6	µg/mL	+/-	7.3178	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot 10234437)			+/-	75.9384	µg/mL	Unstressed
	Purity 99%				+/-	76.1187	µg/mL	Stressed
45	Ethylbenzene		2,516.0	µg/mL	+/-	14.6282	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBM4308)			+/-	151.8014	µg/mL	Unstressed
	Purity 99%				+/-	152.1618	µg/mL	Stressed
46	1,1,1,2-Tetrachloroethane		2,519.1	µg/mL	+/-	14.6464	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot TMWGK)			+/-	151.9900	µg/mL	Unstressed
	Purity 99%				+/-	152.3508	µg/mL	Stressed
47	o-Xylene		2,513.5	µg/mL	+/-	14.6134	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBN5105)			+/-	151.6479	µg/mL	Unstressed
	Purity 98%				+/-	152.0079	µg/mL	Stressed
48	Styrene		2,509.1	µg/mL	+/-	14.5883	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKCP3941)			+/-	151.3866	µg/mL	Unstressed
	Purity 99%				+/-	151.7460	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,518.5	µg/mL	+/-	14.6428	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot Z20D022)			+/-	151.9523	µg/mL	Unstressed
	Purity 99%				+/-	152.3130	µg/mL	Stressed
50	bromoform		2,511.0	µg/mL	+/-	14.5992	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBK4455)			+/-	151.5001	µg/mL	Unstressed
	Purity 98%				+/-	151.8597	µg/mL	Stressed
51	bromodichloromethane		2,518.1	µg/mL	+/-	14.6406	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCM7156)			+/-	151.9296	µg/mL	Unstressed
	Purity 99%				+/-	152.2903	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane		2,515.5	µg/mL	+/-	14.6253	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	151.7713	µg/mL	Unstressed
	Purity 99%				+/-	152.1316	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,512.5	µg/mL	+/-	14.6079	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot 332900)			+/-	151.5903	µg/mL	Unstressed
	Purity 99%				+/-	151.9502	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene		2,511.8	µg/mL	+/-	14.6038	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot RD220405A)			+/-	151.5480	µg/mL	Unstressed
	Purity 95%				+/-	151.9078	µg/mL	Stressed
55	n-Propylbenzene		2,515.6	µg/mL	+/-	14.6261	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKCN1126)			+/-	151.7788	µg/mL	Unstressed
	Purity 99%				+/-	152.1392	µg/mL	Stressed

56	Bromobenzene		2,516.9	µg/mL	+/-	14.6333	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot MKBD4032V)			+/-	151.8542	µg/mL	Unstressed
	Purity 99%				+/-	152.2147	µg/mL	Stressed
57	1,3,5-Trimethylbenzene		2,512.3	µg/mL	+/-	14.6064	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCCD0427)			+/-	151.5752	µg/mL	Unstressed
	Purity 99%				+/-	151.9350	µg/mL	Stressed
58	2-Chlorotoluene		2,510.9	µg/mL	+/-	14.5984	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKCF5243)			+/-	151.4922	µg/mL	Unstressed
	Purity 99%				+/-	151.8519	µg/mL	Stressed
59	4-Chlorotoluene		2,513.1	µg/mL	+/-	14.6115	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKCC8496)			+/-	151.6280	µg/mL	Unstressed
	Purity 99%				+/-	151.9880	µg/mL	Stressed
60	tert-Butylbenzene		2,514.6	µg/mL	+/-	14.6202	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot STBD6954V)			+/-	151.7185	µg/mL	Unstressed
	Purity 99%				+/-	152.0787	µg/mL	Stressed
61	1,2,4-Trimethylbenzene		2,517.1	µg/mL	+/-	14.6348	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot WXBC9428V)			+/-	151.8696	µg/mL	Unstressed
	Purity 98%				+/-	152.2302	µg/mL	Stressed
62	sec-Butylbenzene		2,519.3	µg/mL	+/-	14.6471	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKCN2920)			+/-	151.9975	µg/mL	Unstressed
	Purity 99%				+/-	152.3584	µg/mL	Stressed
63	p-Isopropyltoluene (p-Cymene)		2,512.0	µg/mL	+/-	14.6050	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKCP6638)			+/-	151.5601	µg/mL	Unstressed
	Purity 99%				+/-	151.9199	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,515.5	µg/mL	+/-	14.6253	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBZ7498)			+/-	151.7713	µg/mL	Unstressed
	Purity 99%				+/-	152.1316	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,513.4	µg/mL	+/-	14.6130	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	151.6431	µg/mL	Unstressed
	Purity 99%				+/-	152.0031	µg/mL	Stressed
66	n-Butylbenzene		2,511.0	µg/mL	+/-	14.5992	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09418JJ)			+/-	151.4998	µg/mL	Unstressed
	Purity 99%				+/-	151.8594	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,511.4	µg/mL	+/-	14.6014	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBN3835)			+/-	151.5224	µg/mL	Unstressed
	Purity 99%				+/-	151.8821	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,512.4	µg/mL	+/-	14.6074	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot HBMVB)			+/-	151.5855	µg/mL	Unstressed
	Purity 97%				+/-	151.9454	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,510.4	µg/mL	+/-	14.5955	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBM0526)			+/-	151.4620	µg/mL	Unstressed
	Purity 99%				+/-	151.8216	µg/mL	Stressed
70	Hexachlorobutadiene		2,509.3	µg/mL	+/-	14.5890	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot X05J)			+/-	151.3942	µg/mL	Unstressed
	Purity 99%				+/-	151.7536	µg/mL	Stressed
71	Naphthalene		2,520.6	µg/mL	+/-	14.6551	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKCH0219)			+/-	152.0805	µg/mL	Unstressed
	Purity 99%				+/-	152.4415	µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,513.0	µg/mL	+/-	14.6108	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)			+/-	151.6204	µg/mL	Unstressed
	Purity 99%				+/-	151.9804	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)

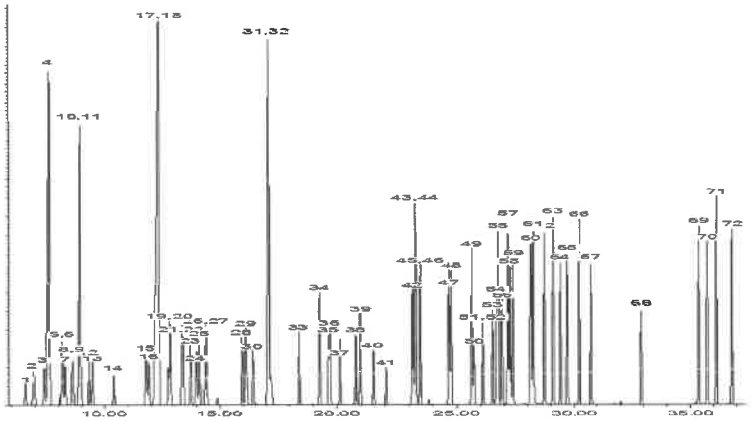
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 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: 31-Mar-2022 **Balance:** B707717271

Feng-Yun Lo - QC Analyst

Date Passed: 21-Apr-2022

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

Reagent

MV-CUS17739.s_00013

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Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Custom Standard

Product Number: CUS-17739

Storage Conditions: Store Frozen (-25° to -10°C).

Lot Number: 0006765276

Lot Issue Date: 03-Oct-2023

Expiration Date: 30-Nov-2025

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
1-chlorohexane	1005	±	5 µg/mL	000544-10-5	RM04913
2-pentanone	4014	±	20 µg/mL	000107-87-9	RM13478
sec-butanol	30122	±	151 µg/mL	000078-92-2	RM13506

Matrix: methanol (purge & trap grade)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Agilent

Trusted Answers

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

ANAB
ANSI National Accreditation Board
ACCREDITED
REFERENCE MATERIAL PRODUCER

ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937

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Reagent

mv-IS/SS Tune_00001

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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. : 570812 **Lot No.:** A0143593

Description : 8260 IS/Surrogate Mix (2016)

8260 IS/Surrogate Mix (2016) 250-5,000µg/mL, P&T Methanol, 5mL/ampul

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

Expiration Date : November 30, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butyl-d9-alcohol		5,000.1 µg/mL	+/- 29.0694 µg/mL	Gravimetric
	CAS # 25725-11-5	(Lot CD-107)		+/- 107.0521 µg/mL	Unstressed
	Purity 98%			+/- 110.1643 µg/mL	Stressed
2	Dibromofluoromethane		250.2 µg/mL	+/- 1.4580 µg/mL	Gravimetric
	CAS # 1868-53-7	(Lot 0012017)		+/- 5.3577 µg/mL	Unstressed
	Purity 99%			+/- 5.5134 µg/mL	Stressed
3	1,2-Dichloroethane-d4		250.3 µg/mL	+/- 1.4584 µg/mL	Gravimetric
	CAS # 17060-07-0	(Lot PR-29377)		+/- 5.3592 µg/mL	Unstressed
	Purity 99%			+/- 5.5149 µg/mL	Stressed
4	1,4-Dioxane-d8		5,000.5 µg/mL	+/- 29.0716 µg/mL	Gravimetric
	CAS # 17647-74-4	(Lot I-19942)		+/- 107.0602 µg/mL	Unstressed
	Purity 99%			+/- 110.1726 µg/mL	Stressed
5	Fluorobenzene		250.1 µg/mL	+/- 1.4573 µg/mL	Gravimetric
	CAS # 462-06-6	(Lot BCBK8171V)		+/- 5.3549 µg/mL	Unstressed
	Purity 99%			+/- 5.5105 µg/mL	Stressed
6	Toluene-d8		250.1 µg/mL	+/- 1.4575 µg/mL	Gravimetric
	CAS # 2037-26-5	(Lot PR-27311)		+/- 5.3556 µg/mL	Unstressed
	Purity 99%			+/- 5.5112 µg/mL	Stressed
7	Chlorobenzene-d5		250.5 µg/mL	+/- 1.4600 µg/mL	Gravimetric
	CAS # 3114-55-4	(Lot PR-23926)		+/- 5.3649 µg/mL	Unstressed
	Purity 99%			+/- 5.5208 µg/mL	Stressed

8	1-Bromo-4-fluorobenzene (BFB)		250.1	µg/mL	+/-	1.4575	µg/mL	Gravimetric
	CAS # 460-00-4	(Lot 20401KO)			+/-	5.3556	µg/mL	Unstressed
	Purity 99%				+/-	5.5112	µg/mL	Stressed
9	1,4-Dichlorobenzene-d4		250.2	µg/mL	+/-	1.4580	µg/mL	Gravimetric
	CAS # 3855-82-1	(Lot PR-18488)			+/-	5.3577	µg/mL	Unstressed
	Purity 99%				+/-	5.5134	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)

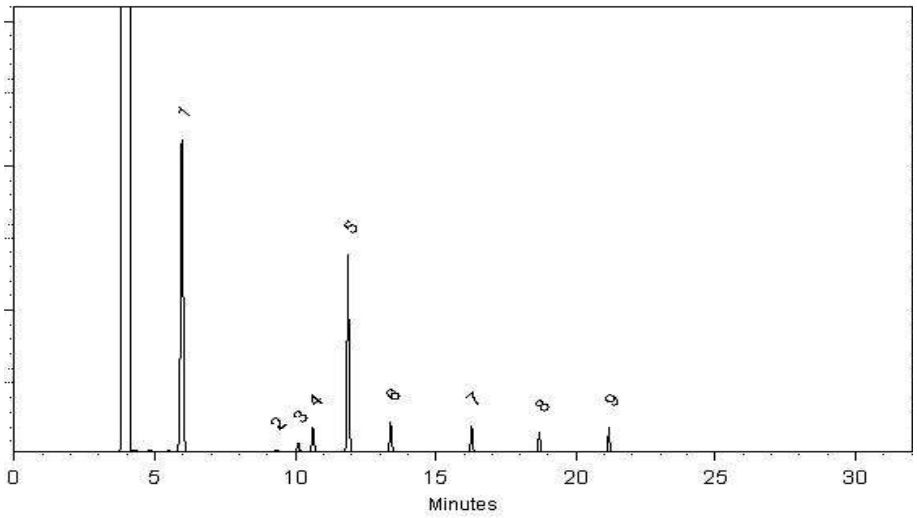
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

F. Joseph Tallon - Mix Technician

Date Mixed: 29-Nov-2018 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 18-Dec-2018

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

NO2 Cal std_00040

RICCA CHEMICAL COMPANY®

1490 Lammers Pike
Batesville, IN 47006
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

Nitrite Nitrogen Standard, 1000 ppm N (3285 ppm NO_2^-)

Lot Number: 4310M18 **Product Number:** 5461

Manufacture Date: OCT 20, 2023
Expiration Date: APR 2024

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Nitrite	7758-09-0	ACS
Chloroform	67-66-3	

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	Passed	
Assay (vs. Potassium Permanganate)	995-1005 ppm N	1005 ppm N	8040

Specification	Reference
Nitrite Solution, Stock (1.0 mL = 1.0 mg NO2-N)	ASTM (D 3867 A)
Nitrite Solution, Stock (1.0 mL = 1.0 mg NO2-N)	ASTM (D 3867 B)
Stock Nitrite Solution: 1 mL = 1.0 mg NO2-N	EPA (353.2)
Stock Nitrite Solution: 1.0 mL = 1.00 mg NO2-N	EPA (353.3)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
5461-16	500 mL natural poly	6 months

Recommended Storage: 2°C - 8°C (36°F - 46°F)

Paul Brandon (10/20/2023)
Production Manager

This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

Reagent

PicricARestek_00124

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31499 **Lot No.:** A0195778

Description : Picric Acid Standard

Picric Acid Standard 1000µg/mL, Methanol, 1mL/1000µg/mL *PGI BOX REQUIRED* SHIP FED EX GROUND ONLY

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

Expiration Date : March 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Picric Acid	88-89-1	06130CU	99%	1,002.0 µg/mL	+/- 46.7451

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

Solvent: Methanol

CAS # 67-56-1

Purity 99%

Quality Confirmation Test

Column:
250mm x 4.6mm
Ultra C18 (cat.# 9174575)

Flow Rate:
1.0 ml/min.

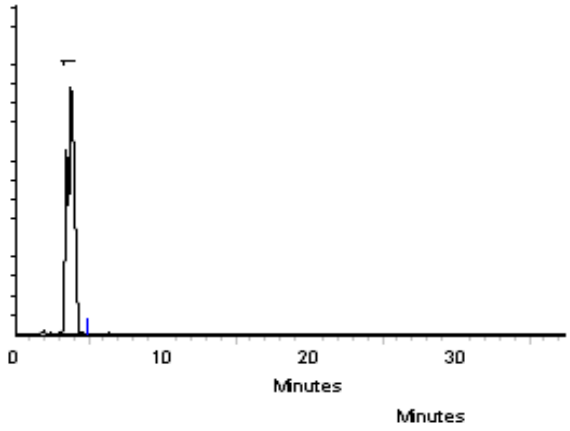
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
0.2µl



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

Alicia Leathers - Operation Technician I

Date Mixed: 12-Mar-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Mar-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Method 8260D DOD

Volatile Organic Compounds by GC/MS by Method 8260D DOD

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 (60. ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
LL10mw-003-240401-GW	280-191168-5	106	88	92	94
FWGTB-240401-TB002	280-191168-6	107	85	93	94
	MB 280-653922/9	100	85	91	95
	LCS 280-653922/4	109	85	96	89
	LCSD 280-653922/5	109	83	95	88

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	80-119
DCA = 1,2-Dichloroethane-d4 (Surr)	81-118
TOL = Toluene-d8 (Surr)	89-112
BFB = 4-Bromofluorobenzene (Surr)	85-114

Column to be used to flag recovery values

FORM II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Matrix: Water Level: Low Lab File ID: G2_12149A.D

Lab ID: LCS 280-653922/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Carbon tetrachloride	50.0	54.7	109	72-136	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Matrix: Water Level: Low Lab File ID: G2_12151.D

Lab ID: LCSD 280-653922/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Carbon tetrachloride	50.0	53.7	107	2	20	72-136	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab File ID: G2_12154.D Lab Sample ID: MB 280-653922/9

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

Instrument ID: VMS_G2 Date Analyzed: 05/17/2024 21:43

GC Column: DB-624 (60.25) ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-653922/4	G2_12149A.D	05/17/2024 19:59
	LCSD 280-653922/5	G2_12151.D	05/17/2024 20:40
FWGTB-240401-TB002	280-191168-6	G2_12161.D	05/18/2024 00:08
LL10mw-003-240401-GW	280-191168-5	G2_12167.D	05/18/2024 02:12

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

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab File ID: G2_11762.D BFB Injection Date: 05/08/2024

Instrument ID: VMS_G2 BFB Injection Time: 23:17

Analysis Batch No.: 652556

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	28.3	
75	30.0 - 60.0 % of mass 95	58.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	64.8	
175	5.0 - 9.0 % of mass 174	5.3	(8.2) 1
176	95.0 - 101.0 % of mass 174	63.2	(97.6) 1
177	5.0 - 9.0 % of mass 176	4.3	(6.8) 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
	STD05 280-652556/13	G2_11763.D	05/08/2024	23:59
	STD1 280-652556/14	G2_11764.D	05/09/2024	0:19
	STD2 280-652556/15	G2_11765.D	05/09/2024	0:40
	STD5 280-652556/16	G2_11766.D	05/09/2024	1:00
	STD10 280-652556/17	G2_11767.D	05/09/2024	1:21
	ICIS 280-652556/18	G2_11768.D	05/09/2024	1:41
	STD75 280-652556/19	G2_11769.D	05/09/2024	2:02
	STD100 280-652556/20	G2_11770.D	05/09/2024	2:22
	STD200 280-652556/21	G2_11771.D	05/09/2024	2:43
	ICV 280-652556/22	G2_11773.D	05/09/2024	3:24
	ICV 280-652556/31	G2_11784.D	05/09/2024	7:11

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

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab File ID: G2_11794.D BFB Injection Date: 05/09/2024

Instrument ID: VMS_G2 BFB Injection Time: 15:22

Analysis Batch No.: 652556

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	26.9	
75	30.0 - 60.0 % of mass 95	56.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	65.5	
175	5.0 - 9.0 % of mass 174	5.3	(8.0) 1
176	95.0 - 101.0 % of mass 174	62.9	(96.0) 1
177	5.0 - 9.0 % of mass 176	4.0	(6.3) 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
	ICV 280-652556/33	G2_11795.D	05/09/2024	16:05

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

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab File ID: G2_12148.D BFB Injection Date: 05/17/2024

Instrument ID: VMS_G2 BFB Injection Time: 19:38

Analysis Batch No.: 653922

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.1	
75	30.0 - 60.0 % of mass 95	52.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	75.9	
175	5.0 - 9.0 % of mass 174	6.3	(8.3) 1
176	95.0 - 101.0 % of mass 174	72.2	(95.1) 1
177	5.0 - 9.0 % of mass 176	5.2	(7.2) 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
	CCV 280-653922/2	G2_12149.D	05/17/2024	19:59
	LCS 280-653922/4	G2_12149A.D	05/17/2024	19:59
	CCV 280-653922/3	G2_12150.D	05/17/2024	20:19
	LCSD 280-653922/5	G2_12151.D	05/17/2024	20:40
	MB 280-653922/9	G2_12154.D	05/17/2024	21:43
FWGTB-240401-TB002	280-191168-6	G2_12161.D	05/18/2024	0:08
LL10mw-003-240401-GW	280-191168-5	G2_12167.D	05/18/2024	2:12
	CCVC 280-653922/32	G2_12174.D	05/18/2024	4:38

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

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Sample No.: ICIS 280-652556/18 Date Analyzed: 05/09/2024 01:41

Instrument ID: VMS_G2 GC Column: DB-624 (60.25) ID: 0.25(mm)

Lab File ID (Standard): G2_11768.D Heated Purge: (Y/N) N

Calibration ID: 93129

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1640721	4.60	347976	7.08	525930	9.28
UPPER LIMIT		3281442	4.76	695952	7.24	1051860	9.45
LOWER LIMIT		820361	4.43	173988	6.91	262965	9.11
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-652556/22		1622101	4.60	353683	7.08	528533	9.28
ICV 280-652556/31		1708479	4.60	364240	7.08	525026	9.28

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.167 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Client Sample ID: LL10mw-003-240401-GW | Lab Sample ID: 280-191168-5

Matrix: Water | Lab File ID: G2_12167.D

Analysis Method: 8260D | Date Collected: 05/07/2024 14:55

Sample wt/vol: 5(mL) | Date Analyzed: 05/18/2024 02:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

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

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

Analysis Batch No.: 653922 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
56-23-5	Carbon tetrachloride	1.7		1.0	0.50	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		81-118
460-00-4	4-Bromofluorobenzene (Surr)	94		85-114
1868-53-7	Dibromofluoromethane (Surr)	106		80-119
2037-26-5	Toluene-d8 (Surr)	92		89-112

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12167.D
Lims ID: 280-191168-B-5
Client ID: LL10mw-003-240401-GW
Sample Type: Client
Inject. Date: 18-May-2024 02:12:30 ALS Bottle#: 13 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-191168-b-5
Operator ID: CF Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-May-2024 15:14:54 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1654

First Level Reviewer: NNS5 Date: 20-May-2024 13:26:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.595	4.595	0.000	98	1570691	50.0	
* 2 Chlorobenzene-d5	119	7.073	7.073	0.000	88	366925	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.273	9.270	0.003	97	562023	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.113	4.113	0.000	93	373047	53.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.363	4.363	0.000	98	491948	44.0	
$ 6 Toluene-d8 (Surr)	98	5.823	5.823	0.000	93	1568125	45.9	
$ 7 4-Bromofluorobenzene (Surr)	95	8.162	8.158	0.004	86	608160	46.9	
$ 8 BFB	95	8.162	8.162	0.000	85	613378	NR	
9 Dichlorodifluoromethane	85		1.426				ND	
10 Chloromethane	50		1.639				ND	
11 Vinyl chloride	62		1.665				ND	
12 Bromomethane	94		1.908				ND	
13 Chloroethane	64		1.983				ND	
14 Dichlorofluoromethane	67		2.144				ND	
15 Trichlorofluoromethane	101		2.170				ND	
17 Ethanol	45		2.339				ND	
18 Ethyl ether	59		2.373				ND	
19 Acrolein	56		2.474				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.537				ND	
21 1,1-Dichloroethene	96		2.545				ND	
22 Acetone	43		2.578				ND	
23 Iodomethane	142		2.657				ND	
24 Isopropyl alcohol	45	2.683	2.676	0.007	84	8060	22.4	
25 Carbon disulfide	76		2.713				ND	
26 Methyl acetate	43		2.784				ND	
27 Acetonitrile	41		2.788				ND	
16 3-Chloro-1-propene	41		2.795				ND	
28 Methylene Chloride	84		2.889				ND	
29 2-Methyl-2-propanol	59		2.945				ND	
30 Acrylonitrile	53		3.046				ND	
31 Methyl tert-butyl ether	73		3.057				ND	
32 trans-1,2-Dichloroethene	96		3.069				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Hexane	57		3.252				ND	
35 Vinyl acetate	43		3.360				ND	
34 1,1-Dichloroethane	63		3.372				ND	
36 Isopropyl ether	87		3.379				ND	
37 2-Chloro-1,3-butadiene	53		3.424				ND	
38 Tert-butyl ethyl ether	59		3.630				ND	
39 2-Butanone (MEK)	43		3.753				ND	
40 cis-1,2-Dichloroethene	96		3.768				ND	
41 2,2-Dichloropropane	77		3.772				ND	
42 Ethyl acetate	43		3.772				ND	
43 Propionitrile	54		3.806				ND	
44 sec-Butyl Alcohol	45		3.873				ND	
45 Methacrylonitrile	41		3.903				ND	
46 Chlorobromomethane	128		3.941				ND	
47 Tetrahydrofuran	42		3.948				ND	
48 Chloroform	83		3.997				ND	
49 1,1,1-Trichloroethane	97		4.124				ND	
50 Cyclohexane	56		4.176				ND	
51 Carbon tetrachloride	117	4.244	4.236	0.008	96	14883	1.71	
52 1,1-Dichloropropene	75		4.240				ND	
53 Isobutyl alcohol	41		4.281				ND	
54 Benzene	78		4.382				ND	
55 1,2-Dichloroethane	62		4.416				ND	
56 Tert-amyl methyl ether	73		4.457				ND	
57 n-Heptane	43		4.573				ND	
58 n-Butanol	56		4.771				ND	
59 Trichloroethene	95		4.865				ND	
60 2-Pentanone	43		4.977				ND	
61 Methylcyclohexane	55		5.041				ND	
62 1,2-Dichloropropane	63		5.059				ND	
63 Methyl methacrylate	100		5.086				ND	
64 1,4-Dioxane	88		5.127				ND	
65 Dibromomethane	93		5.134				ND	
66 Dichlorobromomethane	83		5.258				ND	
67 2-Nitropropane	41		5.430				ND	
68 2-Chloroethyl vinyl ether	63		5.467				ND	
69 cis-1,3-Dichloropropene	75		5.606				ND	
70 4-Methyl-2-pentanone (MIBK)	43		5.707				ND	
71 Toluene	91		5.879				ND	
72 trans-1,3-Dichloropropene	75		6.066				ND	
73 Ethyl methacrylate	69		6.092				ND	
74 1,1,2-Trichloroethane	97		6.231				ND	
75 Tetrachloroethene	164		6.313				ND	
76 1,3-Dichloropropane	76		6.373				ND	
77 2-Hexanone	43		6.403				ND	
78 Chlorodibromomethane	129		6.560				ND	
79 Ethylene Dibromide	107		6.672				ND	
80 1-Chlorohexane	91		7.069				ND	U
81 Chlorobenzene	112		7.099				ND	
82 1,1,1,2-Tetrachloroethane	131		7.170				ND	
83 Ethylbenzene	106		7.181				ND	
84 m-Xylene & p-Xylene	106		7.297				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 o-Xylene	106		7.653				ND	
86 Styrene	104		7.672				ND	
87 Bromoform	173		7.844				ND	
88 Isopropylbenzene	105		7.990				ND	
90 cis-1,4-Dichloro-2-butene	53		8.050				ND	
89 Cyclohexanone	55		8.079				ND	
91 1,1,2,2-Tetrachloroethane	83		8.282				ND	
92 Bromobenzene	156		8.296				ND	
93 trans-1,4-Dichloro-2-butene	53		8.323				ND	
94 1,2,3-Trichloropropane	110		8.338				ND	
95 N-Propylbenzene	120		8.383				ND	
96 2-Chlorotoluene	126		8.472				ND	
97 1,3,5-Trimethylbenzene	105		8.558				ND	
98 4-Chlorotoluene	126		8.592				ND	
99 tert-Butylbenzene	119		8.858				ND	
100 1,2,4-Trimethylbenzene	105		8.918				ND	
101 sec-Butylbenzene	134		9.075				ND	
102 1,3-Dichlorobenzene	146		9.195				ND	
103 4-Isopropyltoluene	119		9.225				ND	
104 1,4-Dichlorobenzene	146		9.296				ND	
105 1,2,3-Trimethylbenzene	105		9.318				ND	
106 n-Butylbenzene	91		9.625				ND	
107 1,2-Dichlorobenzene	146		9.644				ND	
108 1,2-Dibromo-3-Chloropropane	157		10.415				ND	
109 1,3,5-Trichlorobenzene	180		10.606				ND	
110 1,2,4-Trichlorobenzene	180		11.230				ND	
111 Hexachlorobutadiene	225		11.373				ND	
112 Naphthalene	128		11.489				ND	
113 1,2,3-Trichlorobenzene	180		11.709				ND	
114 Ethylene oxide TIC	1		0.000				ND	
S 115 1,2-Dichloroethene, Total	1		0.000				ND	7
S 116 1,3-Dichloropropene, Total	1		0.000				ND	7
S 117 Xylenes, Total	106		0.000				ND	7
S 118 Total BTEX	1		0.000				ND	7
S 119 Trihalomethanes, Total	1		0.000				ND	7
T 120 1,3-Butadiene TIC	39		1.830				ND	7
T 123 2,3-dichloro-1-propene TIC	75		5.797				ND	
T 124 4-Ethyltoluene TIC	105		8.015				ND	
T 125 Propene TIC	41		0.000				ND	
T 128 Dichloroacetonitrile TIC	74		0.000				ND	
T 129 Dicyclopentadiene TIC	66		0.000				ND	
T 130 Propene oxide TIC	58		0.000				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00079 Amount Added: 5.00 Units: uL Run Reagent

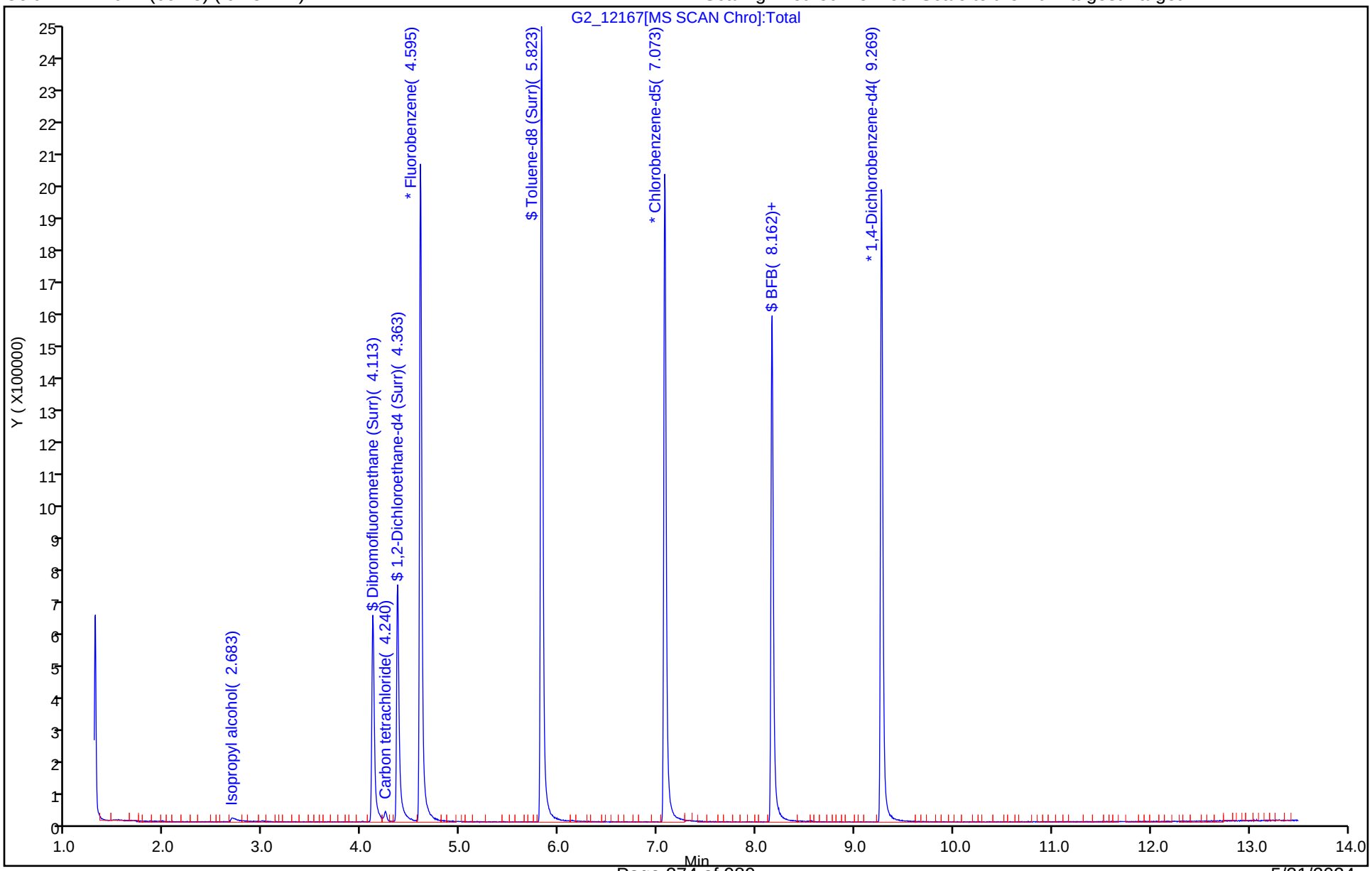
Report Date: 20-May-2024 15:16:13 Chrom Revision: 2.3 15-May-2024 08:18:50

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12167.D

Injection Date:	18-May-2024 02:12:30	Instrument ID:	VMS_G2	Operator ID:	CF
Lims ID:	280-191168-B-5	Lab Sample ID:	280-191168-5	Worklist Smp#:	25
Client ID:	LL10mw-003-240401-GW				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12167.D
Lims ID: 280-191168-B-5
Client ID: LL10mw-003-240401-GW
Sample Type: Client
Inject. Date: 18-May-2024 02:12:30 ALS Bottle#: 13 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-191168-b-5
Operator ID: CF Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-May-2024 15:14:54 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1654

First Level Reviewer: NNS5 Date: 20-May-2024 13:26:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	53.2	106.50
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	44.0	88.02
$ 6 Toluene-d8 (Surr)	50.0	45.9	91.89
$ 7 4-Bromofluorobenzene (Surr)	50.0	46.9	93.73

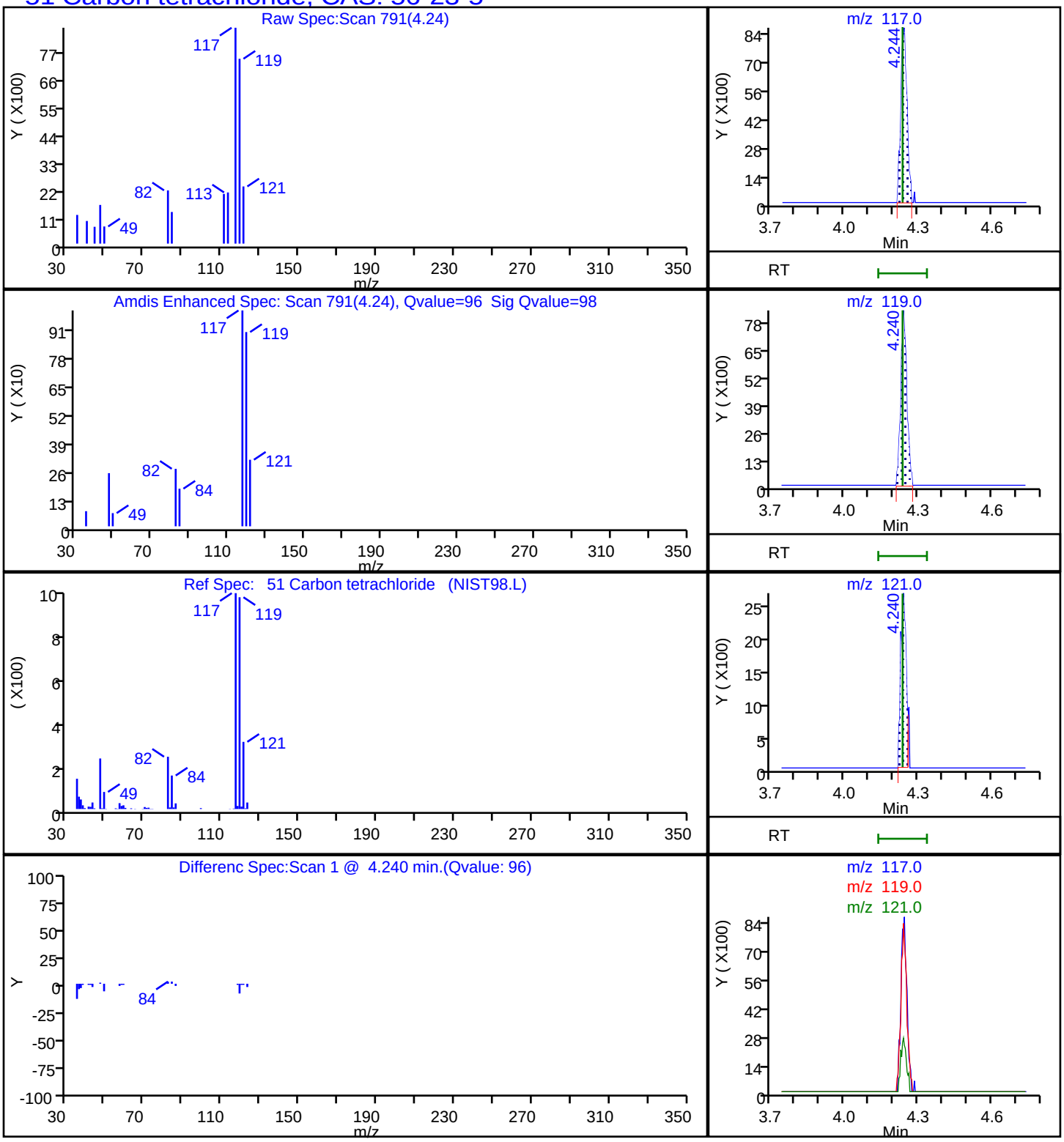
Report Date: 20-May-2024 15:16:13 Chrom Revision: 2.3 15-May-2024 08:18:50

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12167.D

Injection Date:	18-May-2024 02:12:30	Instrument ID:	VMS_G2		
Lims ID:	280-191168-B-5	Lab Sample ID:	280-191168-5		
Client ID:	LL10mw-003-240401-GW				
Operator ID:	CF	ALS Bottle#:	13	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

51 Carbon tetrachloride, CAS: 56-23-5



5/21/2024
3:57:23 PM

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Client Sample ID: FWGTB-240401-TB002 | Lab Sample ID: 280-191168-6

Matrix: Water | Lab File ID: G2_12161.D

Analysis Method: 8260D | Date Collected: 05/07/2024 14:00

Sample wt/vol: 5(mL) | Date Analyzed: 05/18/2024 00:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

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

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

Analysis Batch No.: 653922 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
56-23-5	Carbon tetrachloride	0.50	U	1.0	0.50	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		81-118
460-00-4	4-Bromofluorobenzene (Surr)	94		85-114
1868-53-7	Dibromofluoromethane (Surr)	107		80-119
2037-26-5	Toluene-d8 (Surr)	93		89-112

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12161.D
Lims ID: 280-191168-B-6
Client ID: FWGTB-240401-TB002
Sample Type: Client
Inject. Date: 18-May-2024 00:08:30 ALS Bottle#: 7 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-191168-b-6
Operator ID: CF Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-May-2024 15:14:54 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1654

First Level Reviewer: NNS5 Date: 20-May-2024 13:09:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.595	4.595	0.000	98	1684522	50.0	
* 2 Chlorobenzene-d5	119	7.073	7.073	0.000	88	384508	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.273	9.270	0.003	97	585934	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.113	4.113	0.000	93	401946	53.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.363	4.363	0.000	97	511675	42.7	
$ 6 Toluene-d8 (Surr)	98	5.823	5.823	0.000	93	1668428	46.6	
$ 7 4-Bromofluorobenzene (Surr)	95	8.162	8.158	0.004	86	635029	46.9	
$ 8 BFB	95	8.162	8.162	0.000	85	640739	NR	
9 Dichlorodifluoromethane	85		1.426				ND	
10 Chloromethane	50		1.639				ND	
11 Vinyl chloride	62		1.665				ND	
12 Bromomethane	94		1.908				ND	
13 Chloroethane	64		1.983				ND	
14 Dichlorofluoromethane	67		2.144				ND	
15 Trichlorofluoromethane	101		2.170				ND	
17 Ethanol	45		2.339				ND	
18 Ethyl ether	59		2.373				ND	
19 Acrolein	56		2.474				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.537				ND	
21 1,1-Dichloroethene	96		2.545				ND	
22 Acetone	43		2.578				ND	
23 Iodomethane	142		2.657				ND	
24 Isopropyl alcohol	45		2.676				ND	
25 Carbon disulfide	76		2.713				ND	
26 Methyl acetate	43		2.784				ND	
27 Acetonitrile	41		2.788				ND	
16 3-Chloro-1-propene	41		2.795				ND	
28 Methylene Chloride	84		2.889				ND	
29 2-Methyl-2-propanol	59		2.945				ND	
30 Acrylonitrile	53		3.046				ND	
31 Methyl tert-butyl ether	73		3.057				ND	
32 trans-1,2-Dichloroethene	96		3.069				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Hexane	57		3.252				ND	
35 Vinyl acetate	43		3.360				ND	
34 1,1-Dichloroethane	63		3.372				ND	
36 Isopropyl ether	87		3.379				ND	
37 2-Chloro-1,3-butadiene	53		3.424				ND	
38 Tert-butyl ethyl ether	59		3.630				ND	
39 2-Butanone (MEK)	43		3.753				ND	
40 cis-1,2-Dichloroethene	96		3.768				ND	
41 2,2-Dichloropropane	77		3.772				ND	
42 Ethyl acetate	43		3.772				ND	
43 Propionitrile	54		3.806				ND	
44 sec-Butyl Alcohol	45		3.873				ND	
45 Methacrylonitrile	41		3.903				ND	
46 Chlorobromomethane	128		3.941				ND	
47 Tetrahydrofuran	42		3.948				ND	
48 Chloroform	83		3.997				ND	
49 1,1,1-Trichloroethane	97		4.124				ND	
50 Cyclohexane	56		4.176				ND	
51 Carbon tetrachloride	117		4.236				ND	
52 1,1-Dichloropropene	75		4.240				ND	
53 Isobutyl alcohol	41		4.281				ND	
54 Benzene	78		4.382				ND	
55 1,2-Dichloroethane	62		4.416				ND	
56 Tert-amyl methyl ether	73		4.457				ND	
57 n-Heptane	43		4.573				ND	
58 n-Butanol	56		4.771				ND	
59 Trichloroethene	95		4.865				ND	
60 2-Pentanone	43		4.977				ND	
61 Methylcyclohexane	55		5.041				ND	
62 1,2-Dichloropropane	63		5.059				ND	
63 Methyl methacrylate	100		5.086				ND	
64 1,4-Dioxane	88		5.127				ND	
65 Dibromomethane	93		5.134				ND	
66 Dichlorobromomethane	83		5.258				ND	
67 2-Nitropropane	41		5.430				ND	
68 2-Chloroethyl vinyl ether	63		5.467				ND	
69 cis-1,3-Dichloropropene	75		5.606				ND	
70 4-Methyl-2-pentanone (MIBK)	43		5.707				ND	
71 Toluene	91		5.879				ND	
72 trans-1,3-Dichloropropene	75		6.066				ND	
73 Ethyl methacrylate	69		6.092				ND	
74 1,1,2-Trichloroethane	97		6.231				ND	
75 Tetrachloroethene	164		6.313				ND	
76 1,3-Dichloropropane	76		6.373				ND	
77 2-Hexanone	43		6.403				ND	
78 Chlorodibromomethane	129		6.560				ND	
79 Ethylene Dibromide	107		6.672				ND	
80 1-Chlorohexane	91		7.069				ND	U
81 Chlorobenzene	112		7.099				ND	
82 1,1,1,2-Tetrachloroethane	131		7.170				ND	
83 Ethylbenzene	106		7.181				ND	
84 m-Xylene & p-Xylene	106		7.297				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 o-Xylene	106		7.653				ND	
86 Styrene	104		7.672				ND	
87 Bromoform	173		7.844				ND	
88 Isopropylbenzene	105		7.990				ND	
90 cis-1,4-Dichloro-2-butene	53		8.050				ND	
89 Cyclohexanone	55		8.079				ND	
91 1,1,2,2-Tetrachloroethane	83		8.282				ND	
92 Bromobenzene	156		8.296				ND	
93 trans-1,4-Dichloro-2-butene	53		8.323				ND	
94 1,2,3-Trichloropropane	110		8.338				ND	
95 N-Propylbenzene	120		8.383				ND	
96 2-Chlorotoluene	126		8.472				ND	
97 1,3,5-Trimethylbenzene	105		8.558				ND	
98 4-Chlorotoluene	126		8.592				ND	
99 tert-Butylbenzene	119		8.858				ND	
100 1,2,4-Trimethylbenzene	105		8.918				ND	
101 sec-Butylbenzene	134		9.075				ND	
102 1,3-Dichlorobenzene	146		9.195				ND	
103 4-Isopropyltoluene	119		9.225				ND	
104 1,4-Dichlorobenzene	146		9.296				ND	
105 1,2,3-Trimethylbenzene	105		9.318				ND	
106 n-Butylbenzene	91		9.625				ND	
107 1,2-Dichlorobenzene	146		9.644				ND	
108 1,2-Dibromo-3-Chloropropane	157		10.415				ND	
109 1,3,5-Trichlorobenzene	180		10.606				ND	
110 1,2,4-Trichlorobenzene	180		11.230				ND	
111 Hexachlorobutadiene	225		11.373				ND	
112 Naphthalene	128		11.489				ND	
113 1,2,3-Trichlorobenzene	180		11.709				ND	
114 Ethylene oxide TIC	1		0.000				ND	
S 115 1,2-Dichloroethene, Total	1		0.000				ND	7
S 116 1,3-Dichloropropene, Total	1		0.000				ND	7
S 117 Xylenes, Total	106		0.000				ND	7
S 118 Total BTEX	1		0.000				ND	7
S 119 Trihalomethanes, Total	1		0.000				ND	7
T 120 1,3-Butadiene TIC	39		1.830				ND	7
T 123 2,3-dichloro-1-propene TIC	75		5.797				ND	
T 124 4-Ethyltoluene TIC	105		8.015				ND	
T 125 Propene TIC	41		0.000				ND	
T 128 Dichloroacetonitrile TIC	74		0.000				ND	
T 129 Dicyclopentadiene TIC	66		0.000				ND	
T 130 Propene oxide TIC	58		0.000				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00079 Amount Added: 5.00 Units: uL Run Reagent

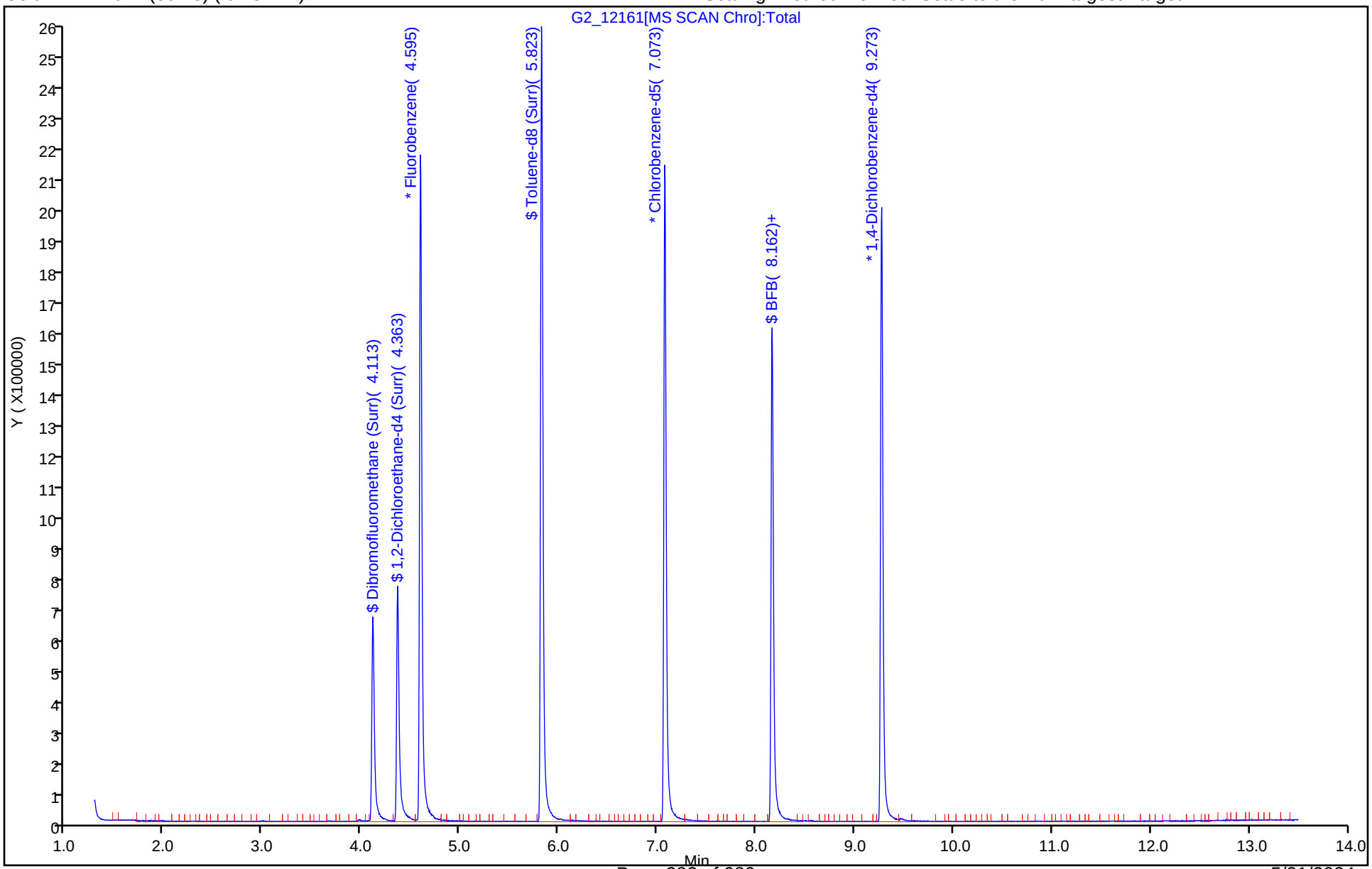
Report Date: 20-May-2024 15:16:04 Chrom Revision: 2.3 15-May-2024 08:18:50

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12161.D

Injection Date:	18-May-2024 00:08:30	Instrument ID:	VMS_G2	Operator ID:	CF
Lims ID:	280-191168-B-6	Lab Sample ID:	280-191168-6	Worklist Smp#:	19
Client ID:	FWGTB-240401-TB002				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12161.D				
Lims ID:	280-191168-B-6				
Client ID:	FWGTB-240401-TB002				
Sample Type:	Client				
Inject. Date:	18-May-2024 00:08:30	ALS Bottle#:	7	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-191168-b-6				
Operator ID:	CF	Instrument ID:	VMS_G2		
Method:	\\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\AQ_VMSG2_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	20-May-2024 15:14:54	Calib Date:	09-May-2024 06:30:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1654				

First Level Reviewer: NNS5 Date: 20-May-2024 13:09:59

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	53.5	107.00
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	42.7	85.36
$ 6 Toluene-d8 (Surr)	50.0	46.6	93.29
$ 7 4-Bromofluorobenzene (Surr)	50.0	46.9	93.87

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-191168-1 Analy Batch No.: 652556

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2024 23:59 Calibration End Date: 05/09/2024 02:43 Calibration ID: 93129

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD05 280-652556/13	G2_11763.D
Level 2	STD1 280-652556/14	G2_11764.D
Level 3	STD2 280-652556/15	G2_11765.D
Level 4	STD5 280-652556/16	G2_11766.D
Level 5	STD10 280-652556/17	G2_11767.D
Level 6	ICIS 280-652556/18	G2_11768.D
Level 7	STD75 280-652556/19	G2_11769.D
Level 8	STD100 280-652556/20	G2_11770.D
Level 9	STD200 280-652556/21	G2_11771.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Dichlorodifluoromethane	+++++ 0.1850	0.2137 0.1846	0.2014 0.1939	0.1511 0.1956	0.2161	Ave		0.1927				10.6		15.0			
Chloromethane	+++++ 0.2698	0.2933 0.2987	0.3083 0.2937	0.2556 0.3010	0.2987	Ave		0.2899			0.1000	6.1		15.0			
Vinyl chloride	0.2082 0.2298	0.2491 0.2475	0.2638 0.2468	0.1789 0.1836	0.2574	Ave		0.2295				13.9		30.0			
Bromomethane	+++++ 0.0710	0.0692 0.0734	0.0784 0.0699	0.0720 +++++	0.0796	Ave		0.0734				5.6		15.0			
Chloroethane	+++++ 0.1404	0.1058 0.1447	0.1642 0.1360	0.1425 +++++	0.1713	Ave		0.1436				14.8		15.0			
Dichlorofluoromethane	+++++ 0.4370	0.3455 0.4584	0.3293 0.4458	0.3245 0.4289	0.3816	Ave		0.3939				14.0		15.0			
Trichlorofluoromethane	+++++ 0.2720	0.3143 0.2852	0.3360 0.2904	0.2775 0.2950	0.3293	Ave		0.3000				8.0		15.0			
Ethyl ether	+++++ 0.2835	0.2101 0.2682	0.2506 0.2857	0.2451 0.2770	0.2359	Ave		0.2570				10.3		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1170 0.1428	0.1274 0.1216	0.1418 0.1430	0.1147 0.1384	0.1096	Ave		0.1285				10.4		15.0			
1,1-Dichloroethene	0.1900 0.2100	0.1832 0.1809	0.1931 0.2042	0.1720 0.1928	0.1706	Ave		0.1885				7.1		30.0			
Acetone	+++++ 0.2503	0.2249 0.2321	0.2933 0.2453	0.2675 0.2335	0.2564	Ave		0.2504				8.9		15.0			
Iodomethane	+++++ 0.2666	+++++ 0.2507	0.2197 0.2813	0.2064 0.2760	0.2056	Ave		0.2438				13.4		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-191168-1 Analy Batch No.: 652556

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2024 23:59 Calibration End Date: 05/09/2024 02:43 Calibration ID: 93129

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Acrolein	0.0600 0.0767	0.0613 0.0722	0.0688 0.0736	0.0482 0.0685	0.0558	Ave		0.0650				14.4		15.0			
Carbon disulfide	0.6668 0.6472	0.4912 0.5629	0.5564 0.6330	0.5508 0.6096	0.5019	Ave		0.5800				10.8		15.0			
Methyl acetate	+++++ 0.5194	0.3023 0.4982	0.3749 0.5232	0.4292 0.5388	0.4264	Lin2	-0.438	0.5022							0.9950		0.9900
3-Chloro-1-propene	0.3947 0.5360	0.4615 0.4540	0.5729 0.4806	0.5086 0.4051	0.4944	Ave		0.4786				12.1		15.0			
Methylene Chloride	0.3158 0.2609	0.3377 0.2400	0.2982 0.2576	0.2607 0.2469	0.2210	Ave		0.2710				14.1		15.0			
2-Methyl-2-propanol	+++++ 0.1403	0.1075 0.1291	0.1213 0.1269	0.1384 0.1132	0.1648	Ave		0.1302				13.8		15.0			
Acrylonitrile	+++++ 0.2534	0.1572 0.2378	0.1771 0.2387	0.1940 0.2051	0.2246	Lin2	-0.816	0.2299							0.9930		0.9900
Methyl tert-butyl ether	0.9221 0.9708	0.9087 0.8887	0.9516 0.9179	0.9696 0.8083	0.9061	Ave		0.9160				5.4		15.0			
trans-1,2-Dichloroethene	0.1784 0.2273	0.1506 0.1975	0.2104 0.2159	0.1998 0.1983	0.1861	Ave		0.1960				11.5		15.0			
Hexane	2.0524 1.9042	1.9028 1.6162	2.1341 1.9750	1.5506 2.0014	1.4632	Ave		1.8444				13.0		15.0			
Vinyl acetate	+++++ 0.7126	0.6786 0.6007	0.7114 0.7455	0.5660 0.5686	0.5609	Ave		0.6430				11.9		15.0			
1,1-Dichloroethane	0.5125 0.5561	0.5130 0.5035	0.4935 0.5423	0.4692 0.5142	0.4498	Ave		0.5060			0.1000	6.5		15.0			
2-Butanone (MEK)	+++++ 0.4352	0.1947 0.3999	0.2817 0.4110	0.3266 0.3691	0.3720	Lin2	-0.854	0.3981							0.9960		0.9900
2,2-Dichloropropane	0.4034 0.3771	0.4009 0.3288	0.4210 0.3632	0.3174 0.3384	0.3120	Ave		0.3625				11.2		15.0			
cis-1,2-Dichloroethene	0.1783 0.2553	0.2137 0.2346	0.2179 0.2517	0.2063 0.2298	0.2059	Ave		0.2215				10.9		15.0			
sec-Butyl Alcohol	+++++ 0.1236	0.0486 0.1145	0.0690 0.1130	0.0951 +++++	0.1237	Lin2	-1.807	0.1181							0.9920		0.9900
Chlorobromomethane	+++++ 0.1030	0.0517 0.0957	0.0589 0.1025	0.0831 0.0960	0.0651	Lin1	-0.071	0.0984							0.9970		0.9900
Tetrahydrofuran	+++++ 0.3263	0.2239 0.2900	0.2216 0.3195	0.2852 0.2945	0.3093	Ave		0.2838				14.2		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-191168-1 Analy Batch No.: 652556

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2024 23:59 Calibration End Date: 05/09/2024 02:43 Calibration ID: 93129

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Chloroform	0.4679 0.4829	0.4028 0.4351	0.4352 0.4768	0.4319 0.4462	0.3857	Ave		0.4405				7.4		30.0			
1,1,1-Trichloroethane	0.3371 0.4001	0.3551 0.3528	0.3767 0.4006	0.3250 0.3872	0.3128	Ave		0.3608				8.9		15.0			
Cyclohexane	0.5922 0.5921	0.5723 0.5066	0.5865 0.5893	0.4791 0.5561	0.4647	Ave		0.5488				9.4		15.0			
Carbon tetrachloride	0.2464 0.3156	0.2668 0.2755	0.2834 0.3164	0.2430 0.3022	0.2430	Ave		0.2769				10.7		15.0			
1,1-Dichloropropene	+++++ 0.3788	0.2009 0.3294	0.3289 0.3761	0.2983 0.3552	0.2953	Lin2	-0.137	0.3521							0.9900		0.9900
Isobutyl alcohol	0.0025 0.0474	0.0216 0.0444	0.0259 0.0449	0.0400 0.0401	0.0527	Lin1	-0.452	0.0433							0.9940		0.9900
Benzene	1.0079 1.1413	0.9572 1.0149	1.0457 1.1166	0.9638 1.0412	0.9194	Ave		1.0231				7.1		15.0			
1,2-Dichloroethane	0.5231 0.4518	0.4445 0.4310	0.3660 0.4543	0.3908 0.4331	0.3733	Ave		0.4298				11.3		15.0			
n-Heptane	0.4751 0.4283	0.4536 0.3834	0.4609 0.4328	0.3509 0.4233	0.3330	Ave		0.4157				11.9		15.0			
Trichloroethene	1.0970 1.2763	1.0308 1.1500	1.1867 1.2841	1.0545 1.3128	1.0025	Ave		1.1550				10.1		15.0			
2-Pentanone	+++++ 0.7802	0.2404 0.7328	0.4900 0.7257	0.5953 0.6394	0.7655	Lin2	-1.580	0.7352							0.9930		0.9900
Methylcyclohexane	0.4774 0.4398	0.4558 0.3869	0.4377 0.4463	0.3651 0.4145	0.3508	Ave		0.4194				10.3		15.0			
1,2-Dichloropropane	0.3114 0.3389	0.2944 0.3094	0.3192 0.3314	0.3105 0.3028	0.2899	Ave		0.3120				5.1		30.0			
1,4-Dioxane	+++++ 0.0060	+++++ 0.0051	0.0038 0.0063	0.0054 0.0060	0.0065	Lin2	-0.082	0.0061							0.9900		0.9900
Dibromomethane	+++++ 0.1763	0.1185 0.1652	0.1424 0.1767	0.1421 0.1667	0.1450	Ave		0.1541				13.3		15.0			
Dichlorobromomethane	0.2942 0.3849	0.2918 0.3568	0.3366 0.3881	0.3330 0.3703	0.3057	Ave		0.3402				11.0		15.0			
2-Chloroethyl vinyl ether	+++++ 0.2563	+++++ 0.2640	0.1315 0.2685	0.1601 0.2564	0.2567	Lin2	-0.288	0.2626							0.9910		0.9900
cis-1,3-Dichloropropene	+++++ 2.2235	1.9686 2.0461	1.9709 2.2543	1.8967 2.2240	1.5995	Ave		2.0229				10.8		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-191168-1 Analy Batch No.: 652556

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2024 23:59 Calibration End Date: 05/09/2024 02:43 Calibration ID: 93129

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
4-Methyl-2-pentanone (MIBK)	0.6177 0.8316	0.6282 0.7649	0.6986 0.7404	0.8141 0.6014	0.9079	Ave		0.7339				14.5		15.0			
Toluene	1.0125 1.1326	0.9456 1.0199	1.0071 1.1024	0.9419 1.0260	0.9097	Ave		1.0109				7.2		30.0			
trans-1,3-Dichloropropene	0.3681 0.4695	0.3861 0.4467	0.3667 0.4685	0.3943 0.4396	0.3875	Ave		0.4141				10.1		15.0			
Ethyl methacrylate	+++++ 2.5948	1.3525 2.4732	1.9240 2.5736	2.3028 2.4578	2.3605	Lin2	-1.183	2.5283							0.9990		0.9900
1,1,2-Trichloroethane	0.2157 0.2487	0.1969 0.2357	0.2301 0.2450	0.2295 0.2266	0.2284	Ave		0.2285				6.8		15.0			
Tetrachloroethene	+++++ 0.8270	0.4799 0.7304	0.7237 0.8366	0.6775 0.8310	0.6355	Lin2	-0.283	0.7830							0.9900		0.9900
1,3-Dichloropropane	1.5209 2.3449	1.9777 2.1799	2.1987 2.3336	2.2547 2.2289	2.0883	Ave		2.1253				11.9		15.0			
2-Hexanone	+++++ 3.2642	1.6968 3.0098	2.5372 2.9674	2.8810 2.5571	3.2981	Lin2	-5.094	3.0707							0.9910		0.9900
Chlorodibromomethane	0.9679 1.1663	0.9042 1.1192	1.0325 1.2115	1.0593 1.2145	1.0194	Ave		1.0772				10.1		15.0			
Ethylene Dibromide	+++++ 1.2068	0.8735 1.1414	1.0499 1.2149	1.1340 1.1930	1.0059	Ave		1.1024				10.8		15.0			
1-Chlorohexane	+++++ 1.6339	1.8464 1.4407	1.6875 1.6613	1.4131 1.6330	1.2790	Ave		1.5744				11.6		15.0			
Chlorobenzene	2.9611 3.0359	2.7136 2.8031	2.8747 3.0094	2.7712 2.8850	2.4675	Ave		2.8357			0.3000	6.2		15.0			
1,1,1,2-Tetrachloroethane	0.9741 1.0892	0.9524 0.9999	0.9901 1.0596	1.0108 1.0114	0.9692	Ave		1.0063				4.4		15.0			
Ethylbenzene	1.3611 1.6842	1.5145 1.4827	1.5631 1.6368	1.4172 1.5621	1.3488	Ave		1.5078				7.8		30.0			
m-Xylene & p-Xylene	+++++ 2.1318	1.5652 1.8635	1.8239 2.0932	1.7356 2.0704	1.5597	Ave		1.8554				12.3		15.0			
o-Xylene	1.8148 2.0386	1.7529 1.8579	1.8687 2.0079	1.7851 1.9350	1.7147	Ave		1.8640				6.0		15.0			
Styrene	+++++ 3.4616	2.4728 3.2730	2.6456 3.4666	2.9263 3.3065	2.7090	Ave		3.0327				13.0		15.0			
Bromoform	+++++ 0.8039	0.5865 0.8032	0.6856 0.8408	0.7086 0.8463	0.7388	Ave		0.7517			0.1000	11.9		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-191168-1 Analy Batch No.: 652556

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2024 23:59 Calibration End Date: 05/09/2024 02:43 Calibration ID: 93129

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Isopropylbenzene	3.4320 3.5836	3.5744 3.2300	3.7323 3.4624	3.2704 3.2150	3.0492	Ave		3.3944				6.4		15.0			
Cyclohexanone	0.1913 0.2251	0.2165 0.2062	0.2064 0.2058	0.2186 0.1831	0.2561	Ave		0.2121				9.9		15.0			
1,1,2,2-Tetrachloroethane	1.3451 1.2973	1.3908 1.2082	1.4172 1.2334	1.3533 1.0943	1.4451	Ave		1.3094			0.3000	8.6		15.0			
Bromobenzene	0.5063 0.7411	0.6599 0.6975	0.6285 0.7179	0.7082 0.6673	0.7117	Ave		0.6709				10.5		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.5911	0.5616 0.5761	0.5078 0.5744	0.6360 0.5362	0.6092	Ave		0.5740				7.0		15.0			
1,2,3-Trichloropropane	0.3489 0.4354	0.4318 0.4146	0.4227 0.4129	0.4617 0.3731	0.4856	Ave		0.4207				9.9		15.0			
N-Propylbenzene	+++++ 0.8778	0.7620 0.8055	0.8136 0.8662	0.7840 0.8230	0.7539	Ave		0.8108				5.5		15.0			
2-Chlorotoluene	0.4181 0.7385	0.6043 0.6856	0.6704 0.7259	0.7100 0.6875	0.6676	Ave		0.6564				14.9		15.0			
1,3,5-Trimethylbenzene	2.7550 2.8028	2.7432 2.5842	2.8455 2.7371	2.5561 2.5971	2.4722	Ave		2.6770				4.8		15.0			
4-Chlorotoluene	+++++ 0.7554	0.5014 0.7055	0.6789 0.7353	0.6469 0.6948	0.6244	Ave		0.6678				11.9		15.0			
tert-Butylbenzene	2.2927 2.3467	2.4377 2.1202	2.4107 2.2620	2.2200 2.1214	2.1298	Ave		2.2601				5.4		15.0			
1,2,4-Trimethylbenzene	2.7495 2.8028	2.6167 2.5785	2.7527 2.7392	2.6090 2.6109	2.5503	Ave		2.6677				3.5		15.0			
sec-Butylbenzene	0.4048 0.6538	0.5466 0.5955	0.6255 0.6389	0.5798 0.6082	0.5664	Ave		0.5800				12.8		15.0			
1,3-Dichlorobenzene	+++++ 1.3700	1.1400 1.3072	1.3043 1.3597	1.2615 1.2882	1.2600	Ave		1.2864				5.6		15.0			
4-Isopropyltoluene	2.6288 2.7971	2.8727 2.5355	2.8588 2.7097	2.5477 2.5273	2.5237	Ave		2.6668				5.5		15.0			
1,4-Dichlorobenzene	1.0750 1.4003	1.4030 1.3071	1.3775 1.3943	1.3170 1.3338	1.2114	Ave		1.3133				8.3		15.0			
n-Butylbenzene	2.5852 2.6091	2.5479 2.3867	2.6076 2.5652	2.2674 2.3947	2.2659	Ave		2.4700				5.8		15.0			
1,2-Dichlorobenzene	+++++ 1.3069	1.2792 1.2539	1.1985 1.2619	1.2721 1.1726	1.2475	Ave		1.2491				3.5		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-191168-1 Analy Batch No.: 652556

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2024 23:59 Calibration End Date: 05/09/2024 02:43 Calibration ID: 93129

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,2-Dibromo-3-Chloropropane	+++++ 0.3656	0.2520 0.3497	0.3418 0.3525	0.3424 0.3412	0.3819	Ave		0.3409				11.3		15.0			
1,2,4-Trichlorobenzene	+++++ 0.7347	0.6434 0.7154	0.6321 0.7477	0.6814 0.7375	0.6686	Ave		0.6951				6.5		15.0			
Hexachlorobutadiene	+++++ 0.3346	0.3020 0.3038	0.3903 0.3314	0.3097 0.3153	0.3023	Ave		0.3237				9.2		15.0			
Naphthalene	1.8295 2.7661	2.2382 2.6876	2.4874 2.7474	2.5983 2.6938	2.7747	Ave		2.5359				12.4		15.0			
1,2,3-Trichlorobenzene	0.6177 0.7164	0.6661 0.6988	0.6810 0.7281	0.6330 0.7005	0.6776	Ave		0.6799				5.4		15.0			
Dibromofluoromethane (Surr)	0.2139 0.2297	0.2133 0.2296	0.2199 0.2272	0.2160 0.2275	0.2301	Ave		0.2230				3.2		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3577 0.3850	0.3429 0.3480	0.3484 0.3481	0.3520 0.3517	0.3688	Ave		0.3558				3.7		15.0			
Toluene-d8 (Surr)	4.5990 4.6849	4.5523 4.6659	4.4677 4.7778	4.5253 5.0244	4.5625	Ave		4.6511				3.6		15.0			
4-Bromofluorobenzene (Surr)	1.1756 1.1048	1.2053 1.1273	1.2022 1.1095	1.1676 1.1295	1.1689	Ave		1.1545				3.3		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver | Job No.: 280-191168-1 | Analy Batch No.: 652556

SDG No.:

Instrument ID: VMS_G2 | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2024 23:59 | Calibration End Date: 05/09/2024 02:43 | Calibration ID: 93129

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD05 280-652556/13	G2_11763.D
Level 2	STD1 280-652556/14	G2_11764.D
Level 3	STD2 280-652556/15	G2_11765.D
Level 4	STD5 280-652556/16	G2_11766.D
Level 5	STD10 280-652556/17	G2_11767.D
Level 6	ICIS 280-652556/18	G2_11768.D
Level 7	STD75 280-652556/19	G2_11769.D
Level 8	STD100 280-652556/20	G2_11770.D
Level 9	STD200 280-652556/21	G2_11771.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dichlorodifluoromethane	FB	Ave	+++++ 303606	6678 455649	12849 656218	24821 1354576	67225	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Chloromethane	FB	Ave	+++++ 442667	9165 737196	19670 994100	41991 2085123	92952	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Vinyl chloride	FB	Ave	3179 377033	7786 610916	16830 835180	29386 1271490	80098	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromomethane	FB	Ave	+++++ 116436	2164 181131	5004 236489	11822 +++++	24779	+++++ 50.0	1.00 75.0	2.00 100	5.00 +++++	10.0
Chloroethane	FB	Ave	+++++ 230435	3305 357139	10479 460419	23410 +++++	53309	+++++ 50.0	1.00 75.0	2.00 100	5.00 +++++	10.0
Dichlorofluoromethane	FB	Ave	+++++ 717023	10796 1131355	21011 1508935	53294 2970808	118732	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Trichlorofluoromethane	FB	Ave	+++++ 446347	9823 703896	21438 982792	45578 2043448	102469	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethyl ether	FB	Ave	+++++ 465221	6566 661979	15990 967104	40267 1918301	73402	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	1786 234274	3982 300002	9047 484141	18836 958355	34108	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1-Dichloroethene	FB	Ave	2901 344596	5724 446492	12317 691095	28248 1335567	53066	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Acetone	FB	Ave	+++++ 1642947	28108 2291319	74840 3321477	175785 6470400	319089	+++++ 200	4.00 300	8.00 400	20.0 800	40.0
Iodomethane	FB	Ave	+++++ 437414	+++++ 618862	14018 952028	33904 1911530	63986	+++++ 50.0	+++++ 75.0	2.00 100	5.00 200	10.0
Acrolein	FB	Ave	9042 1243095	18911 1760065	43355 2461079	78151 4686751	171502	4.94 494	9.88 741	19.8 988	49.4 1975	98.8
Carbon disulfide	FB	Ave	10181 1061837	15351 1389243	35498 2142338	90468 4222525	156166	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver | Job No.: 280-191168-1 | Analy Batch No.: 652556

SDG No.:

Instrument ID: VMS_G2 | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2024 23:59 | Calibration End Date: 05/09/2024 02:43 | Calibration ID: 93129

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Methyl acetate	FB	Lin2	+++++ 1704488	18894 2459010	47835 3541578	141014 7463156	265346	+++++ 100	2.00 150	4.00 200	10.0 400	20.0
3-Chloro-1-propene	FB	Ave	6026 879419	14424 1120415	36553 1626574	83550 2805472	153840	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Methylene Chloride	FB	Ave	4822 428001	10553 592345	19028 871734	42816 1710060	68765	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Methyl-2-propanol	FB	Ave	+++++ 2302384	33608 3185179	77408 4295885	227362 7842385	512728	+++++ 500	10.0 750	20.0 1000	50.0 2000	100
Acrylonitrile	FB	Lin2	+++++ 4157900	49142 5869404	113017 8079105	318617 14208238	698832	+++++ 500	10.0 750	20.0 1000	50.0 2000	100
Methyl tert-butyl ether	FB	Ave	14078 1592826	28398 2193303	60713 3106556	159268 5598127	281937	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,2-Dichloroethene	FB	Ave	2723 372925	4706 487553	13424 730878	32817 1373799	57905	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Hexane	CBNZd5	Ave	6279 662616	12231 849200	28225 1388315	52119 2756690	98510	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Vinyl acetate	FB	Ave	+++++ 2338407	42412 2965068	90777 5046262	185946 7875852	349046	+++++ 100	2.00 150	4.00 200	10.0 400	20.0
1,1-Dichloroethane	FB	Ave	7825 912459	16031 1242735	31487 1835406	77071 3561221	139964	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Butanone (MEK)	FB	Lin2	+++++ 2856434	24339 3948418	71883 5564411	214601 10224905	462958	+++++ 200	4.00 300	8.00 400	20.0 800	40.0
2,2-Dichloropropane	FB	Ave	6159 618643	12530 811555	26860 1229208	52138 2343977	97084	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
cis-1,2-Dichloroethene	FB	Ave	2722 418838	6679 578946	13901 851838	33893 1591328	64072	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
sec-Butyl Alcohol	FB	Lin2	+++++ 4867816	36475 6783739	105730 9177229	374736 +++++	923898	+++++ 1200	24.0 1800	48.0 2400	120 +++++	240
Chlorobromomethane	FB	Lin1	+++++ 169012	1617 236231	3760 346869	13648 665047	20244	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Tetrahydrofuran	FB	Ave	+++++ 1070851	13994 1431361	28276 2162651	93696 4079407	192453	+++++ 100	2.00 150	4.00 200	10.0 400	20.0
Chloroform	FB	Ave	7144 792228	12588 1073805	27766 1613671	70942 3090691	119992	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1,1-Trichloroethane	FB	Ave	5146 656388	11096 870739	24035 1355847	53377 2681476	97332	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Cyclohexane	FB	Ave	9042 971390	17884 1250324	37421 1994368	78699 3851700	144601	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Carbon tetrachloride	FB	Ave	3762 517842	8337 679877	18080 1070724	39918 2092988	75617	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver | Job No.: 280-191168-1 | Analy Batch No.: 652556

SDG No.:

Instrument ID: VMS_G2 | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2024 23:59 | Calibration End Date: 05/09/2024 02:43 | Calibration ID: 93129

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,1-Dichloropropene	FB	Lin2	+++++ 621426	6277 812894	20987 1272879	49006 2459848	91877	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Isobutyl alcohol	FB	Lin1	967 1945491	16878 2738178	41261 3801872	164433 6948410	410242	12.5 1250	25.0 1875	50.0 2500	125 5000	250
Benzene	FB	Ave	15388 1872518	29915 2504830	66719 3779042	158314 7211472	286056	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichloroethane	FB	Ave	7986 741267	13892 1063848	23349 1537608	64187 2999799	116161	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
n-Heptane	FB	Ave	7253 702645	14177 946242	29404 1464844	57637 2932023	103613	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Trichloroethene	CBNZd5	Ave	3356 444130	6626 604247	15695 902611	35446 1808182	67494	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Pentanone	FB	Lin2	+++++ 4096310	24045 5787861	100048 7859780	312905 14172073	762148	+++++ 160	3.20 240	6.40 320	16.0 640	32.0
Methylcyclohexane	FB	Ave	7289 721586	14244 955008	27929 1510680	59975 2870586	109149	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichloropropane	FB	Ave	4754 556068	9201 763606	20368 1121625	51002 2097222	90194	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,4-Dioxane	FB	Lin2	+++++ 198362	+++++ 250811	4910 428038	17609 824742	40570	+++++ 1000	+++++ 1500	40.0 2000	100 4000	200
Dibromomethane	FB	Ave	+++++ 289264	3702 407640	9086 598081	23334 1154289	45126	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dichlorobromomethane	FB	Ave	4492 631525	9120 880668	21478 1313504	54700 2564624	95131	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Chloroethyl vinyl ether	FB	Lin2	+++++ 420454	+++++ 651631	8389 908709	26305 1776021	79867	+++++ 50.0	+++++ 75.0	2.00 100	5.00 200	10.0
cis-1,3-Dichloropropene	CBNZd5	Ave	+++++ 773732	12654 1075106	26066 1584596	63754 3063263	107687	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	37725 5457750	78529 7551598	178284 10023558	534919 16662388	1129935	2.00 200	4.00 300	8.00 400	20.0 800	40.0
Toluene	FB	Ave	15459 1858210	29551 2517190	64253 3731169	154717 7106368	283040	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,3-Dichloropropene	FB	Ave	5620 770259	12065 1102505	23399 1585645	64767 3044866	120571	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethyl methacrylate	CBNZd5	Lin2	+++++ 902945	8694 1299489	25446 1809078	77406 3385300	158921	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1,2-Trichloroethane	FB	Ave	3293 408032	6153 581757	14679 829300	37705 1569616	71069	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver | Job No.: 280-191168-1 | Analy Batch No.: 652556

SDG No.:

Instrument ID: VMS_G2 | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2024 23:59 | Calibration End Date: 05/09/2024 02:43 | Calibration ID: 93129

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Tetrachloroethene	CBNZd5	Lin2	+++++ 287779	3085 383789	9571 588098	22773 1144570	42784	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3-Dichloropropane	CBNZd5	Ave	4653 815966	12713 1145407	29079 1640349	75788 3069942	140595	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Hexanone	CBNZd5	Lin2	+++++ 4543522	43628 6325814	134224 8343603	387357 14088092	888198	+++++ 200	4.00 300	8.00 400	20.0 800	40.0
Chlorodibromomethane	CBNZd5	Ave	2961 405836	5812 588049	13655 851580	35607 1672794	68635	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethylene Dibromide	CBNZd5	Ave	+++++ 419934	5615 599701	13886 854020	38119 1643147	67726	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1-Chlorohexane	CBNZd5	Ave	+++++ 454860	9495 605608	17854 934247	37998 1799410	68887	+++++ 40.0	0.800 60.0	1.60 80.0	4.00 160	8.00
Chlorobenzene	CBNZd5	Ave	9059 1056418	17443 1472837	38020 2115398	93148 3973648	166130	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1,1,2-Tetrachloroethane	CBNZd5	Ave	2980 379018	6122 525401	13095 744814	33976 1393097	65253	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethylbenzene	CBNZd5	Ave	4164 586055	9735 779060	20673 1150538	47638 2151544	90809	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
m-Xylene & p-Xylene	CBNZd5	Ave	+++++ 741802	10061 979166	24122 1471353	58339 2851668	105006	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
o-Xylene	CBNZd5	Ave	5552 709373	11268 976183	24715 1411417	60004 2665218	115446	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Styrene	CBNZd5	Ave	+++++ 1204563	15895 1719718	34990 2436767	98362 4554263	182389	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromoform	CBNZd5	Ave	+++++ 279723	3770 422030	9068 591054	23819 1165702	49741	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Isopropylbenzene	DCBd4	Ave	15523 1884706	31996 2555729	69290 3777980	155235 7075386	291940	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Cyclohexanone	CBNZd5	Ave	17555	41756	81908	220483	517263	15.0	30.0	60.0	150	300

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-191168-1 Analy Batch No.: 652556

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 (60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2024 23:59 Calibration End Date: 05/09/2024 02:43 Calibration ID: 93129

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
			2350402	3250136	4340164	7565219		1500	2250	3000	6000	
1,1,2,2-Tetrachloroethane	DCBd4	Ave	6084 682273	12450 956028	26310 1345801	64238 2408302	138359	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromobenzene	DCBd4	Ave	2290 389765	5907 551864	11668 783354	33614 1468598	68138	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,4-Dichloro-2-butene	DCBd4	Ave	+++++ 310891	5027 455827	9427 626815	30189 1179979	58326	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2,3-Trichloropropane	DCBd4	Ave	1578 228979	3865 328031	7847 450495	21916 821076	46495	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
N-Propylbenzene	DCBd4	Ave	+++++ 461687	6821 637353	15105 945126	37214 1811239	72178	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Chlorotoluene	DCBd4	Ave	1891 388399	5409 542515	12446 792057	33700 1513012	63922	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3,5-Trimethylbenzene	DCBd4	Ave	12461 1474097	24556 2044794	52826 2986640	121330 5715651	236703	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Chlorotoluene	DCBd4	Ave	+++++ 397297	4488 558261	12603 802274	30707 1529113	59784	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
tert-Butylbenzene	DCBd4	Ave	10370 1234197	21821 1677608	44754 2468188	105373 4668760	203912	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2,4-Trimethylbenzene	DCBd4	Ave	12436 1474061	23423 2040247	51103 2988894	123841 5745882	244173	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
sec-Butylbenzene	DCBd4	Ave	1831 343852	4893 471206	11612 697172	27521 1338558	54230	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3-Dichlorobenzene	DCBd4	Ave	+++++ 720536	10205 1034325	24215 1483600	59877 2835057	120639	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Isopropyltoluene	DCBd4	Ave	11890 1471092	25715 2006210	53073 2956670	120928 5562003	241628	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,4-Dichlorobenzene	DCBd4	Ave	4862 736469	12559 1034214	25574 1521406	62511 2935365	115983	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
n-Butylbenzene	DCBd4	Ave	11693 1372180	22807 1888494	48411 2799022	107623 5270108	216947	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichlorobenzene	DCBd4	Ave	+++++ 687319	11451 992149	22251 1376939	60382 2580727	119444	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	+++++ 192273	2256 276735	6346 384678	16252 750951	36563	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2,4-Trichlorobenzene	DCBd4	Ave	+++++ 386420	5759 566072	11735 815841	32343 1623044	64012	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Hexachlorobutadiene	DCBd4	Ave	+++++ 175986	2703 240411	7245 361616	14702 693924	28942	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Naphthalene	DCBd4	Ave	8275 1454765	20035 2126607	46178 2997814	123330 5928326	265661	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver | Job No.: 280-191168-1 | Analy Batch No.: 652556

SDG No.:

Instrument ID: VMS_G2 | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2024 23:59 | Calibration End Date: 05/09/2024 02:43 | Calibration ID: 93129

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,2,3-Trichlorobenzene	DCBd4	Ave	2794 376777	5963 552941	12643 794461	30047 1541559	64879	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dibromofluoromethane (Surr)	FB	Ave	326608 376813	333223 377772	350794 384458	354795 393866	357959	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	546141 631675	535789 572648	555661 589157	578182 609038	573674	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
Toluene-d8 (Surr)	CBNZd5	Ave	1406977 1630229	1463105 1634403	1477186 1679232	1521111 1730110	1535897	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
4-Bromofluorobenzene (Surr)	DCBd4	Ave	531721 581044	539441 594633	557958 605331	554225 621425	559569	50.0 50.0	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
Lin2 = Linear 1/conc^2 ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11763.D
Lims ID: STD05
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-May-2024 23:59:30 ALS Bottle#: 1 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD05
Operator ID: COULTER/CF Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub62

Method: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 09-May-2024 12:47:54 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: NNS5 Date: 09-May-2024 08:51:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.599	4.595	0.004	96	1526758	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.084	7.077	0.007	95	305932	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.284	9.281	0.003	96	452300	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.116	4.113	0.003	91	326608	50.0	48.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.363	4.363	0.000	98	546141	50.0	50.3	
$ 6 Toluene-d8 (Surr)	98	5.830	5.827	0.003	96	1406977	50.0	49.4	
$ 7 4-Bromofluorobenzene (Surr)	95	8.169	8.166	0.003	81	531721	50.0	50.9	
9 Dichlorodifluoromethane	85	1.426	1.426	0.000	93	2502	0.5000	0.4253	
10 Chloromethane	50	1.635	1.628	0.007	27	2678	0.5000	0.3025	
11 Vinyl chloride	62	1.665	1.665	0.000	94	3179	0.5000	0.4537	
12 Bromomethane	94	1.925	1.912	0.013	1	0	0.5000	0	a
13 Chloroethane	64	2.043	1.991	0.052	1	0	0.5000	0	a
14 Dichlorofluoromethane	67	2.152	2.152	0.000	89	5984	0.5000	0.4975	
15 Trichlorofluoromethane	101	2.174	2.178	-0.004	96	5027	0.5000	0.5488	
18 Ethyl ether	59	2.384	2.373	0.011	88	2178	0.5000	0.2775	
19 Acrolein	56	4.187	2.477	1.710	81	9042	4.94	4.55	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.541	2.541	0.000	71	1786	0.5000	0.4553	
21 1,1-Dichloroethene	96	2.545	2.545	0.000	94	2901	0.5000	0.5039	
22 Acetone	43	2.590	2.575	0.015	79	7538	2.00	0.9858	
23 Iodomethane	142	2.661	2.657	0.004	79	1424	0.5000	0.1913	
25 Carbon disulfide	76	2.717	2.713	0.004	98	10181	0.5000	0.5749	
26 Methyl acetate	43		2.784				ND	ND	
16 3-Chloro-1-propene	41	2.807	2.795	0.012	84	6026	0.5000	0.4123	
28 Methylene Chloride	84	2.896	2.889	0.007	95	4822	0.5000	0.5828	
29 2-Methyl-2-propanol	59	2.941	2.941	0.000	79	5765	5.00	1.45	
30 Acrylonitrile	53	3.132	3.042	0.090	53	25457	5.00	7.18	M
31 Methyl tert-butyl ether	73	3.057	3.057	0.000	98	14078	0.5000	0.5033	
32 trans-1,2-Dichloroethene	96	3.084	3.072	0.012	87	2723	0.5000	0.4549	
33 Hexane	57	3.256	3.256	0.000	94	6279	0.5000	0.5564	
35 Vinyl acetate	43		3.364				ND	ND	U
34 1,1-Dichloroethane	63	3.383	3.372	0.011	92	7825	0.5000	0.5064	Ma

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Butanone (MEK)	43		3.750				ND	ND	U
40 cis-1,2-Dichloroethene	96	3.783	3.768	0.015	81	2722	0.5000	0.4025	
41 2,2-Dichloropropane	77	3.776	3.772	0.004	89	6159	0.5000	0.5565	a
44 sec-Butyl Alcohol	45		3.869				ND	ND	
46 Chlorobromomethane	128		3.941				ND	ND	
47 Tetrahydrofuran	42		3.948				ND	ND	
48 Chloroform	83	4.008	3.997	0.011	96	7144	0.5000	0.5311	M
49 1,1,1-Trichloroethane	97	4.131	4.128	0.003	57	5146	0.5000	0.4671	
50 Cyclohexane	56	4.187	4.180	0.007	95	9042	0.5000	0.5396	
52 1,1-Dichloropropene	75	4.247	4.240	0.007	77	4306	0.5000	0.7909	Ma
51 Carbon tetrachloride	117	4.247	4.240	0.007	89	3762	0.5000	0.4449	M
53 Isobutyl alcohol	41	4.371	4.277	0.094	29	967	12.5	11.2	
54 Benzene	78	4.393	4.386	0.007	75	15388	0.5000	0.4926	
55 1,2-Dichloroethane	62	4.434	4.420	0.014	89	7986	0.5000	0.6085	Ma
57 n-Heptane	43	4.584	4.577	0.007	92	7253	0.5000	0.5714	a
59 Trichloroethene	95	4.880	4.865	0.015	90	3356	0.5000	0.4749	M
60 2-Pentanone	43		4.977				ND	ND	
61 Methylcyclohexane	55	5.052	5.045	0.007	91	7289	0.5000	0.5692	
62 1,2-Dichloropropane	63	5.071	5.063	0.008	46	4754	0.5000	0.4990	
64 1,4-Dioxane	88		5.127				ND	ND	
65 Dibromomethane	93		5.138				ND	ND	
66 Dichlorobromomethane	83	5.269	5.262	0.007	94	4492	0.5000	0.4325	
68 2-Chloroethyl vinyl ether	63		5.471				ND	ND	
69 cis-1,3-Dichloropropene	75	5.624	5.610	0.014	87	4181	0.5000	0.3378	a
70 4-Methyl-2-pentanone (MIBK)	43	5.726	5.711	0.015	98	37725	2.00	1.68	
71 Toluene	91	5.898	5.883	0.015	98	15459	0.5000	0.5008	M
72 trans-1,3-Dichloropropene	75	6.089	6.070	0.019	44	5620	0.5000	0.4444	Ma
73 Ethyl methacrylate	69	6.126	6.096	0.030	5	2362	0.5000	0.6207	
74 1,1,2-Trichloroethane	97	6.253	6.235	0.018	82	3293	0.5000	0.4719	M
75 Tetrachloroethene	164	6.324	6.317	0.007	83	1713	0.5000	0.7185	
76 1,3-Dichloropropane	76	6.395	6.377	0.018	66	4653	0.5000	0.3578	
77 2-Hexanone	43	6.429	6.407	0.022	98	24841	2.00	2.98	
78 Chlorodibromomethane	129	6.575	6.564	0.011	89	2961	0.5000	0.4493	
79 Ethylene Dibromide	107	6.695	6.676	0.019	23	2092	0.5000	0.3101	
80 1-Chlorohexane	91	7.088	7.073	0.015	35	5965	0.4000	0.6192	
81 Chlorobenzene	112	7.110	7.103	0.007	76	9059	0.5000	0.5221	
82 1,1,1,2-Tetrachloroethane	131	7.185	7.178	0.007	71	2980	0.5000	0.4840	
83 Ethylbenzene	106	7.192	7.185	0.007	97	4164	0.5000	0.4513	
84 m-Xylene & p-Xylene	106	7.357	7.305	0.052	1	460	0.5000	0.0405	
85 o-Xylene	106	7.668	7.657	0.011	95	5552	0.5000	0.4868	
86 Styrene	104	7.701	7.675	0.026	86	5656	0.5000	0.3048	
87 Bromoform	173		7.847				ND	ND	
88 Isopropylbenzene	105	8.001	7.993	0.008	97	15523	0.5000	0.5055	
89 Cyclohexanone	55	8.094	8.087	0.007	96	17555	15.0	13.5	
91 1,1,2,2-Tetrachloroethane	83	8.296	8.289	0.007	86	6084	0.5000	0.5136	
92 Bromobenzene	156	8.319	8.300	0.019	67	2290	0.5000	0.3773	
93 trans-1,4-Dichloro-2-butene	53	8.356	8.326	0.030	61	1450	0.5000	0.2792	
94 1,2,3-Trichloropropane	110	8.353	8.345	0.008	85	1578	0.5000	0.4146	
95 N-Propylbenzene	120		8.390				ND	ND	
96 2-Chlorotoluene	126	8.487	8.480	0.007	92	1891	0.5000	0.3185	
97 1,3,5-Trimethylbenzene	105	8.573	8.562	0.011	93	12461	0.5000	0.5146	
98 4-Chlorotoluene	126	8.618	8.596	0.022	95	1551	0.5000	0.2567	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 tert-Butylbenzene	119	8.869	8.865	0.004	88	10370	0.5000	0.5072	
100 1,2,4-Trimethylbenzene	105	8.936	8.925	0.011	95	12436	0.5000	0.5153	
101 sec-Butylbenzene	134	9.086	9.082	0.004	44	1831	0.5000	0.3490	
102 1,3-Dichlorobenzene	146	9.221	9.206	0.015	0	1144	0.5000	0.0983	
103 4-Isopropyltoluene	119	9.247	9.236	0.011	95	11890	0.5000	0.4929	
104 1,4-Dichlorobenzene	146	9.314	9.303	0.011	74	4862	0.5000	0.4093	
106 n-Butylbenzene	91	9.644	9.633	0.012	95	11693	0.5000	0.5233	
107 1,2-Dichlorobenzene	146	9.662	9.651	0.011	82	2552	0.5000	0.2259	
108 1,2-Dibromo-3-Chloropropane	157	10.430	10.426	0.004	55	659	0.5000	0.2137	
110 1,2,4-Trichlorobenzene	180	11.257	11.242	0.015	1	1823	0.5000	0.2899	
111 Hexachlorobutadiene	225		11.384				ND	ND	
112 Naphthalene	128	11.519	11.500	0.018	93	8275	0.5000	0.3607	
113 1,2,3-Trichlorobenzene	180	11.739	11.721	0.018	87	2794	0.5000	0.4543	
S 115 1,2-Dichloroethene, Total	1				0		1.00	0.8573	
S 116 1,3-Dichloropropene, Total	1				0		1.00	0.7822	
S 117 Xylenes, Total	106				0		1.00	0.5273	
S 118 Total BTEX	1				0			1.97	
S 119 Trihalomethanes, Total	1				0		2.00	1.41	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

Cal Dil B_00001	Amount Added:	5.00	Units: uL	
mv-IS_SS_00079	Amount Added:	5.00	Units: uL	Run Reagent

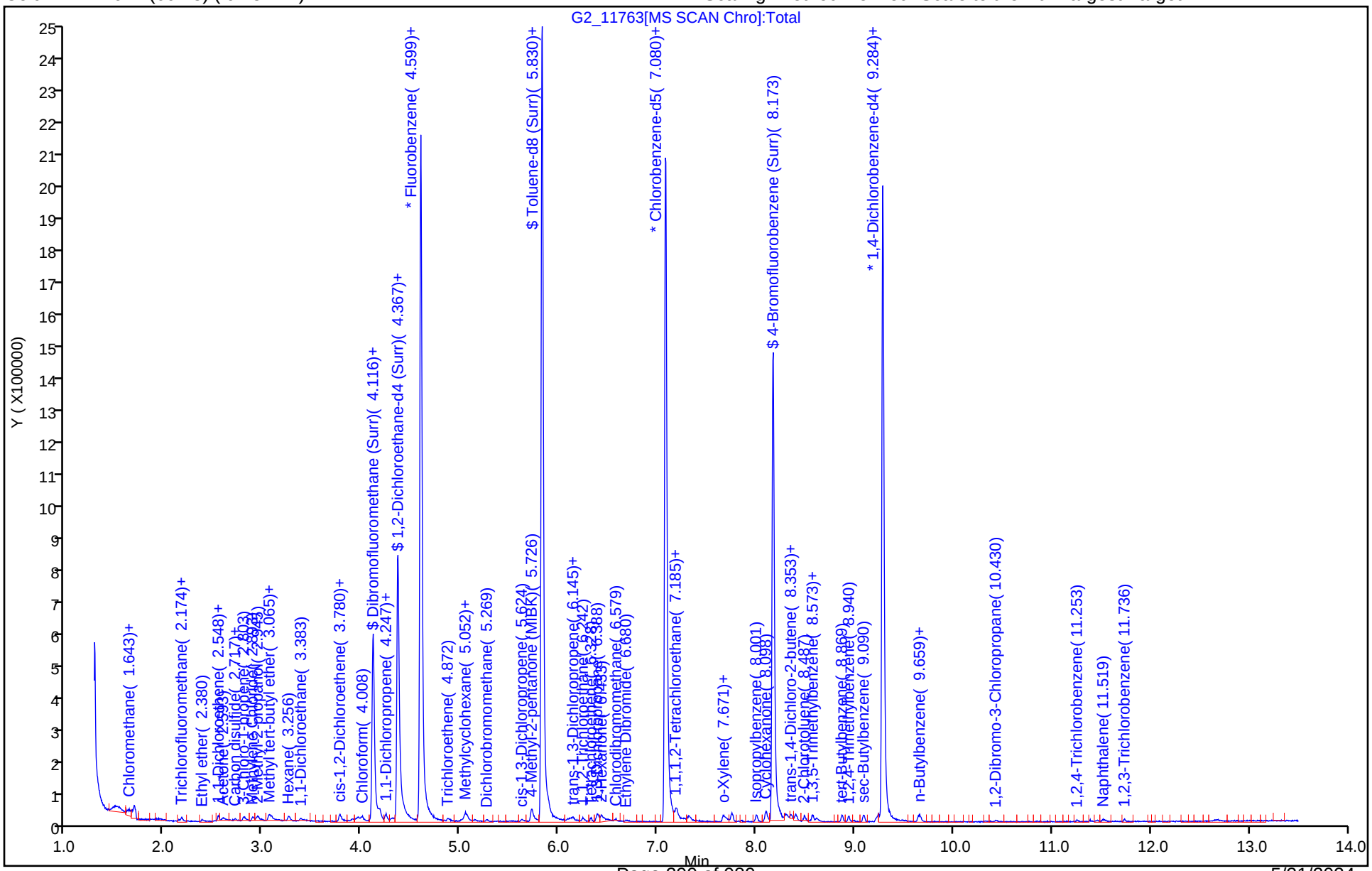
Report Date: 09-May-2024 12:47:55 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11763.D

Injection Date:	08-May-2024 23:59:30	Instrument ID:	VMS_G2	Operator ID:	COULTER/CF
Lims ID:	STD05			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Denver

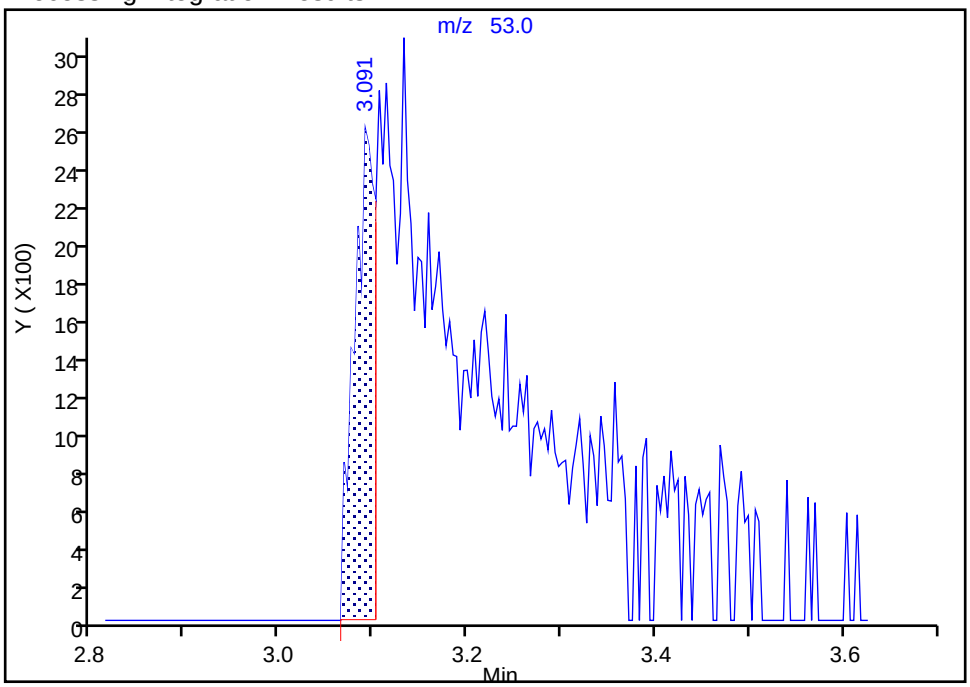
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11763.D
Injection Date: 08-May-2024 23:59:30 Instrument ID: VMS_G2
Lims ID: STD05
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 1 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

30 Acrylonitrile, CAS: 107-13-1

Signal: 1

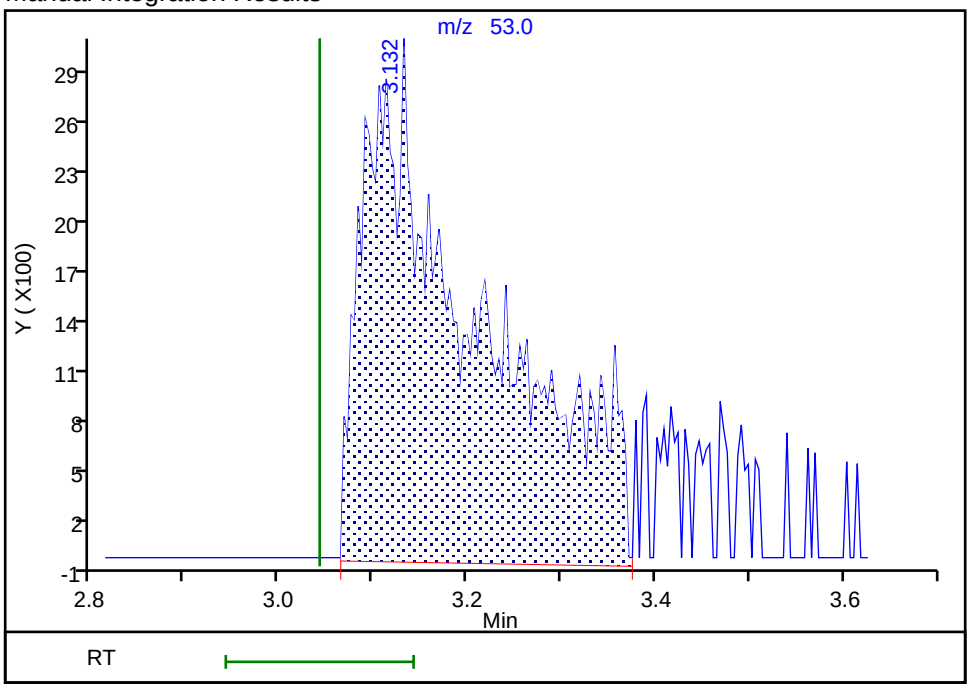
Processing Integration Results

RT: 3.09
Area: 3902
Amount: 4.105723
Amount Units: ug/l



Manual Integration Results

RT: 3.13
Area: 25457
Amount: 7.176806
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 12:06:18 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

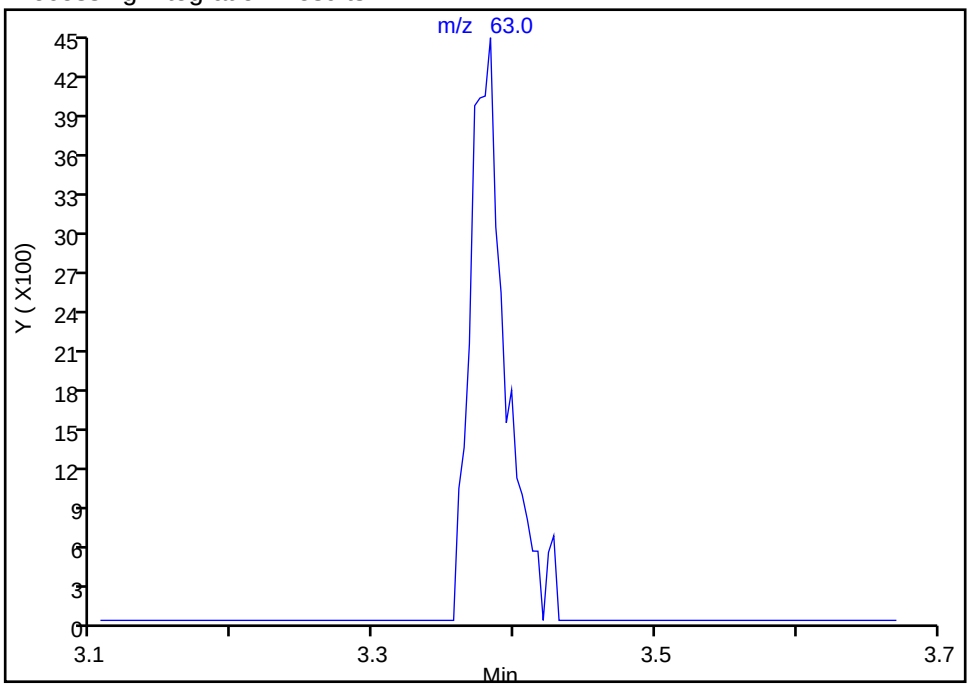
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11763.D
Injection Date: 08-May-2024 23:59:30 Instrument ID: VMS_G2
Lims ID: STD05
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 1 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

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

Signal: 1

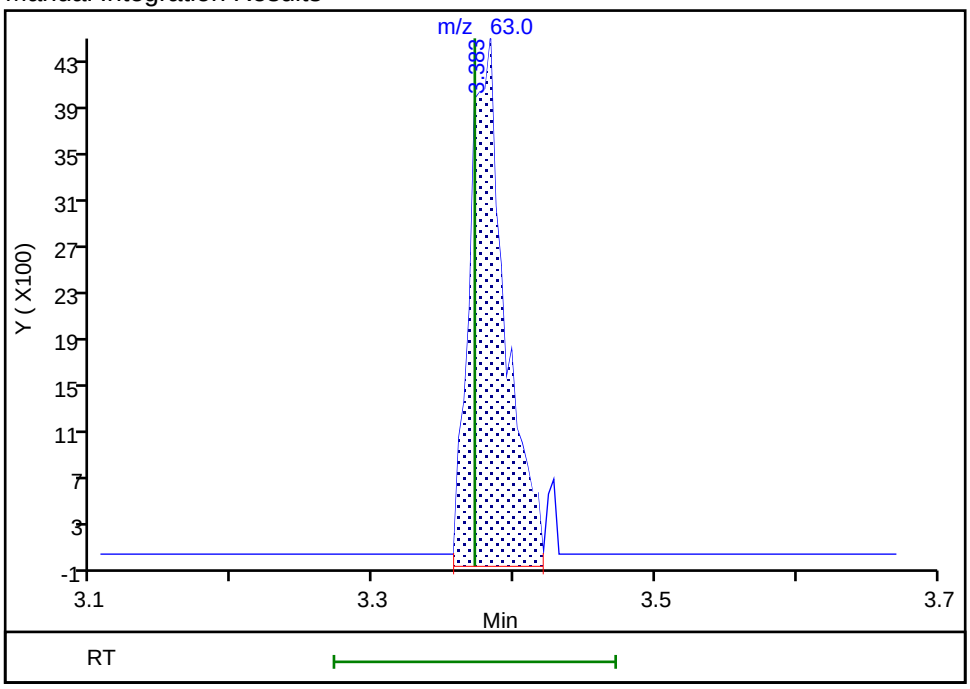
Not Detected
Expected RT: 3.37

Processing Integration Results



Manual Integration Results

RT: 3.38
Area: 7825
Amount: 0.506428
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 10:39:46 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Denver

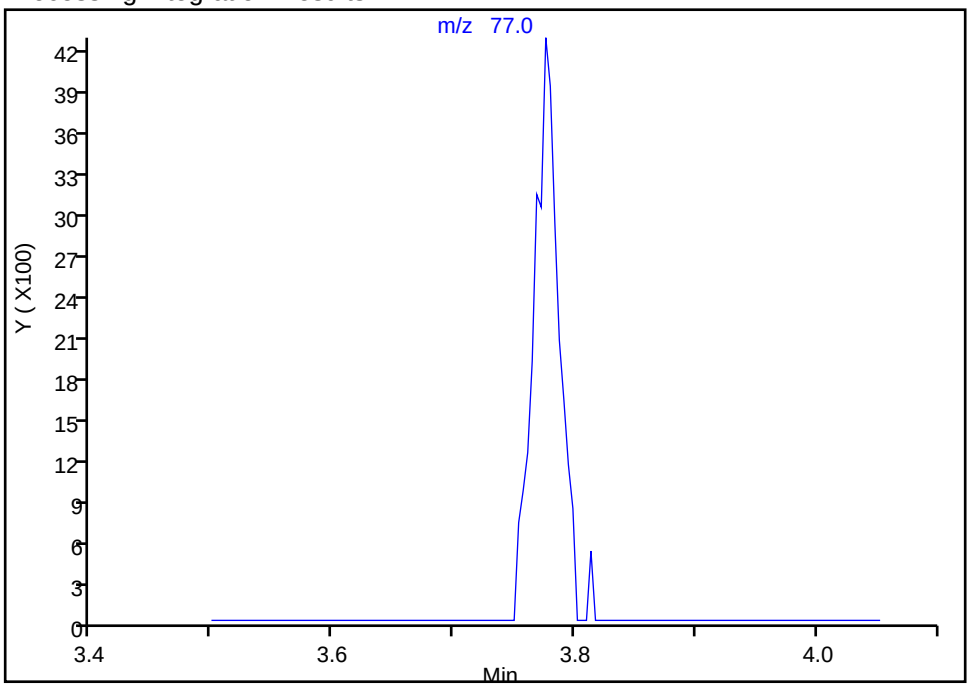
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11763.D
Injection Date: 08-May-2024 23:59:30 Instrument ID: VMS_G2
Lims ID: STD05
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 1 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

41 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

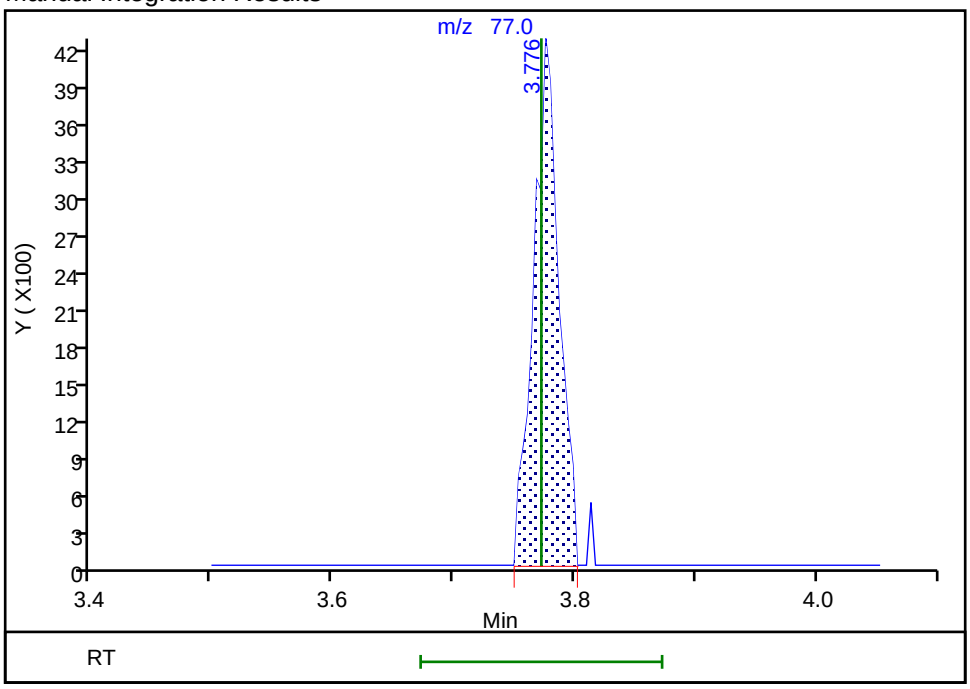
Not Detected
Expected RT: 3.77

Processing Integration Results



Manual Integration Results

RT: 3.78
Area: 6159
Amount: 0.556461
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 10:39:58 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Denver

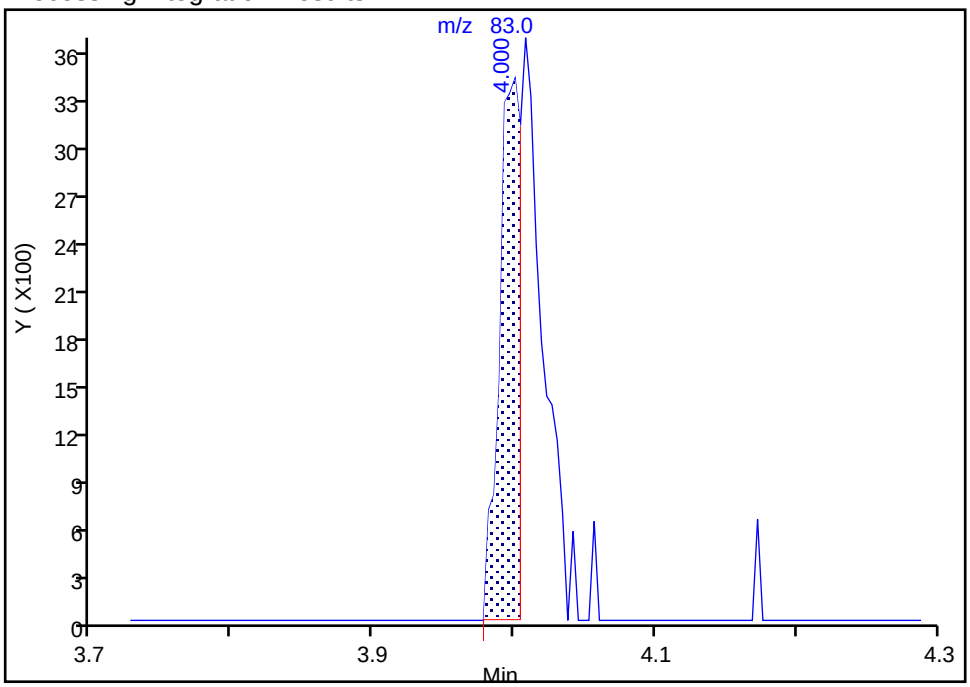
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11763.D
Injection Date: 08-May-2024 23:59:30 Instrument ID: VMS_G2
Lims ID: STD05
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 1 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

48 Chloroform, CAS: 67-66-3

Signal: 1

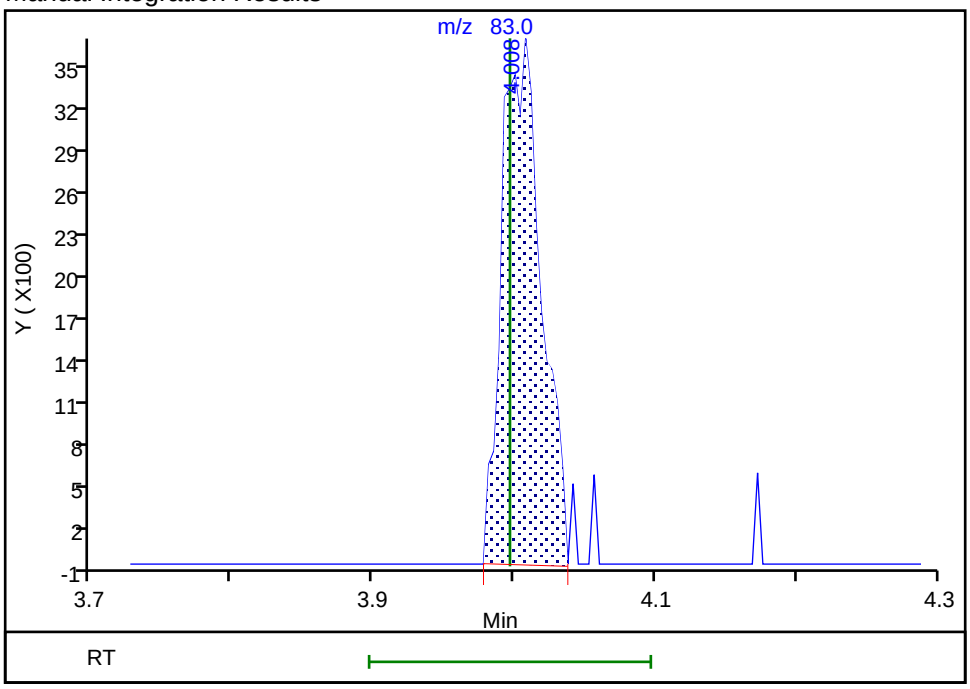
Processing Integration Results

RT: 4.00
Area: 3611
Amount: 0.285111
Amount Units: ug/l



Manual Integration Results

RT: 4.01
Area: 7144
Amount: 0.531138
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 10:45:58 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

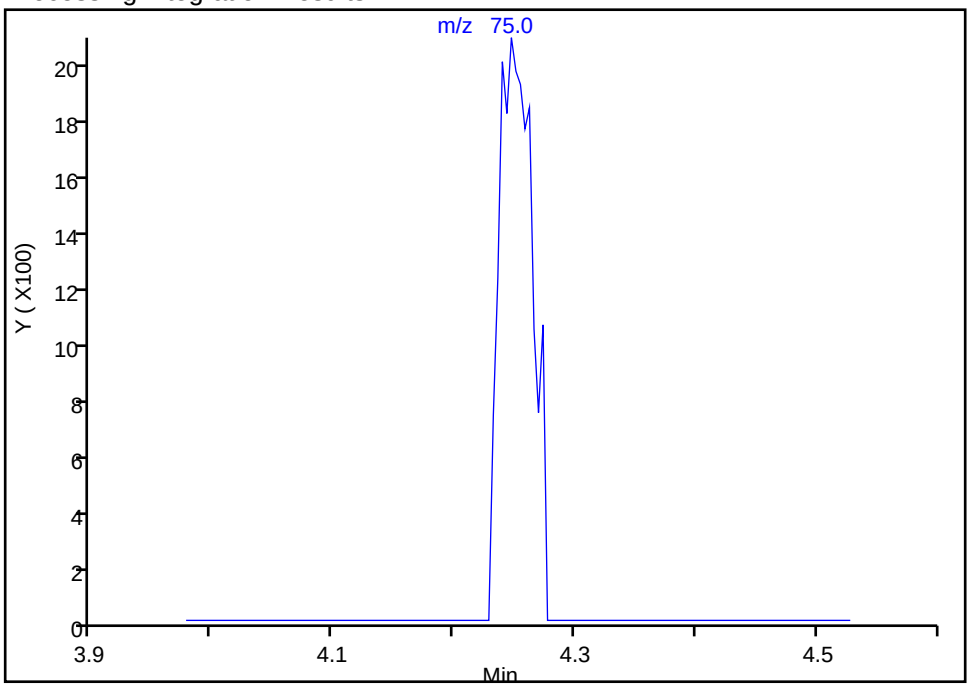
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11763.D
Injection Date: 08-May-2024 23:59:30 Instrument ID: VMS_G2
Lims ID: STD05
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 1 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

52 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

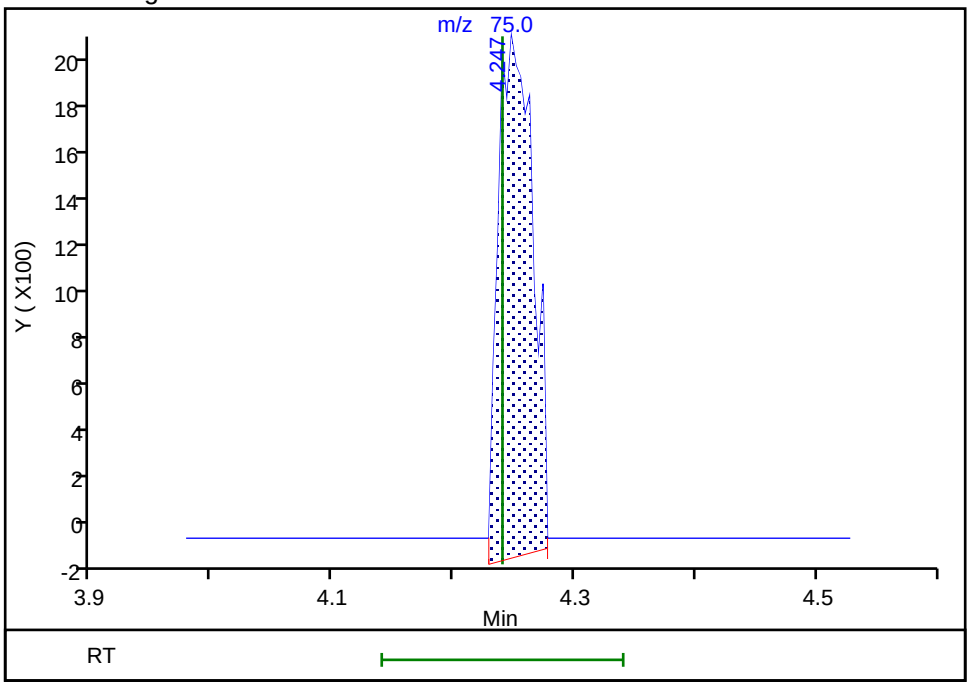
Not Detected
Expected RT: 4.24

Processing Integration Results



Manual Integration Results

RT: 4.25
Area: 4306
Amount: 0.790869
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 10:41:17 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

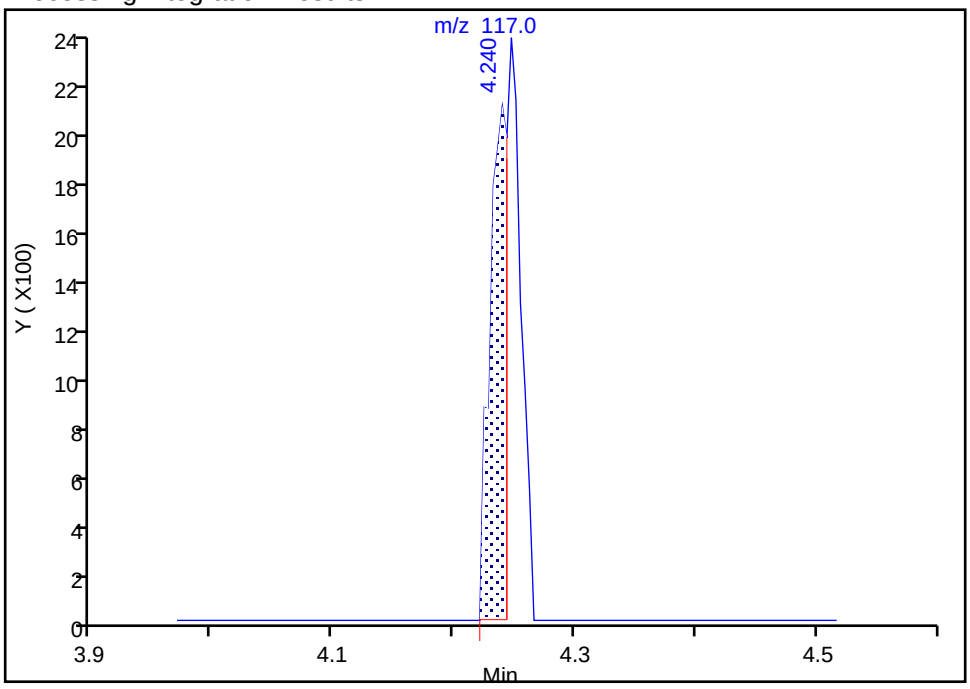
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11763.D
Injection Date: 08-May-2024 23:59:30 Instrument ID: VMS_G2
Lims ID: STD05
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 1 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

51 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

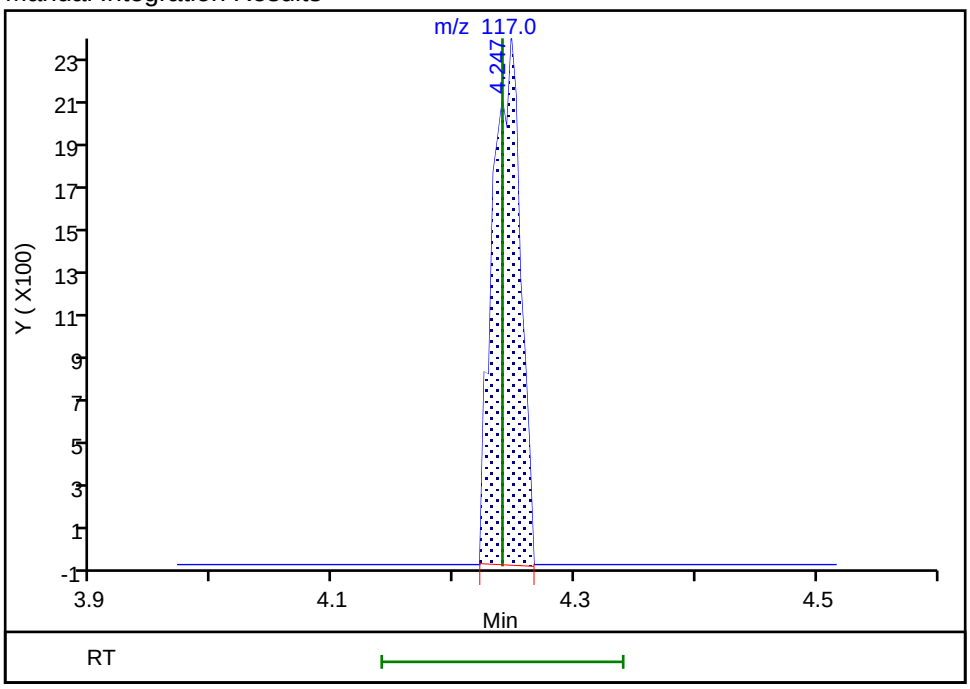
Processing Integration Results

RT: 4.24
Area: 2125
Amount: 0.611155
Amount Units: ug/l



Manual Integration Results

RT: 4.25
Area: 3762
Amount: 0.444910
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 10:45:47 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

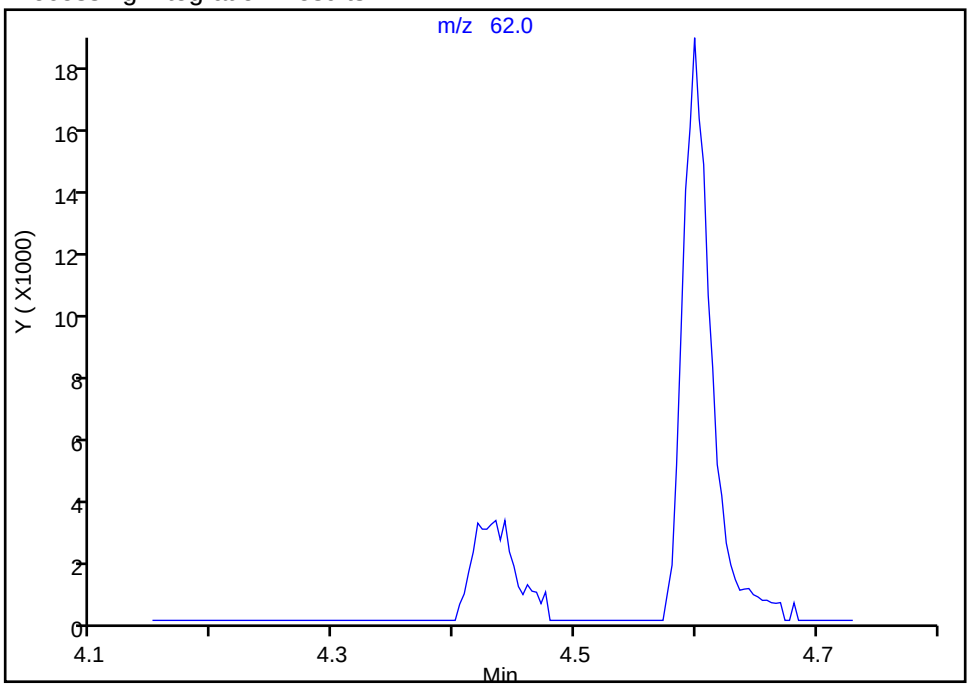
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11763.D
Injection Date: 08-May-2024 23:59:30 Instrument ID: VMS_G2
Lims ID: STD05
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 1 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

55 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

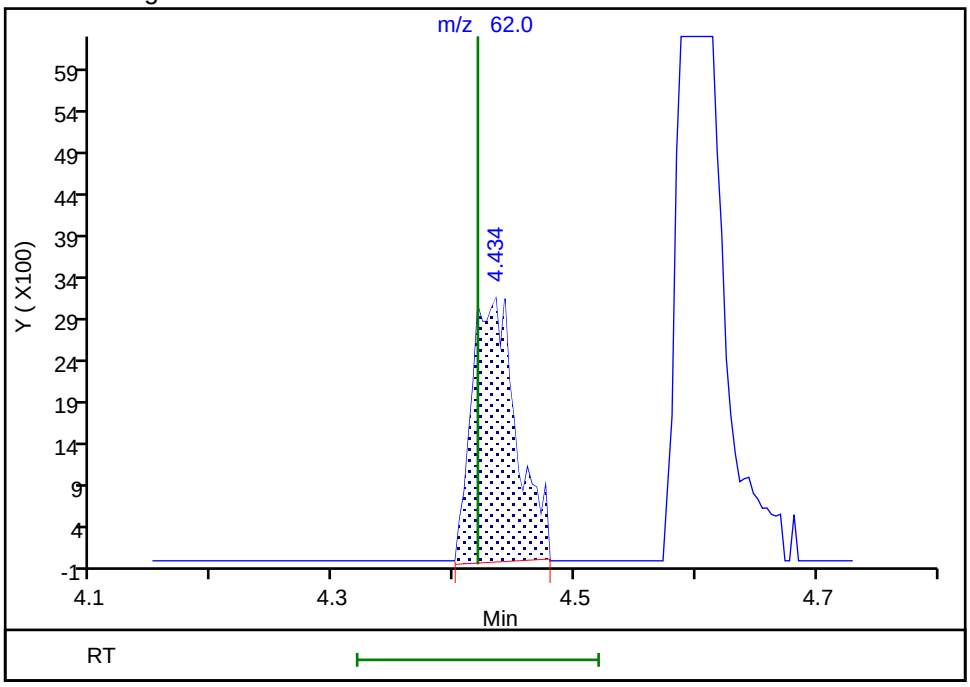
Not Detected
Expected RT: 4.42

Processing Integration Results



Manual Integration Results

RT: 4.43
Area: 7986
Amount: 0.608549
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 10:43:49 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

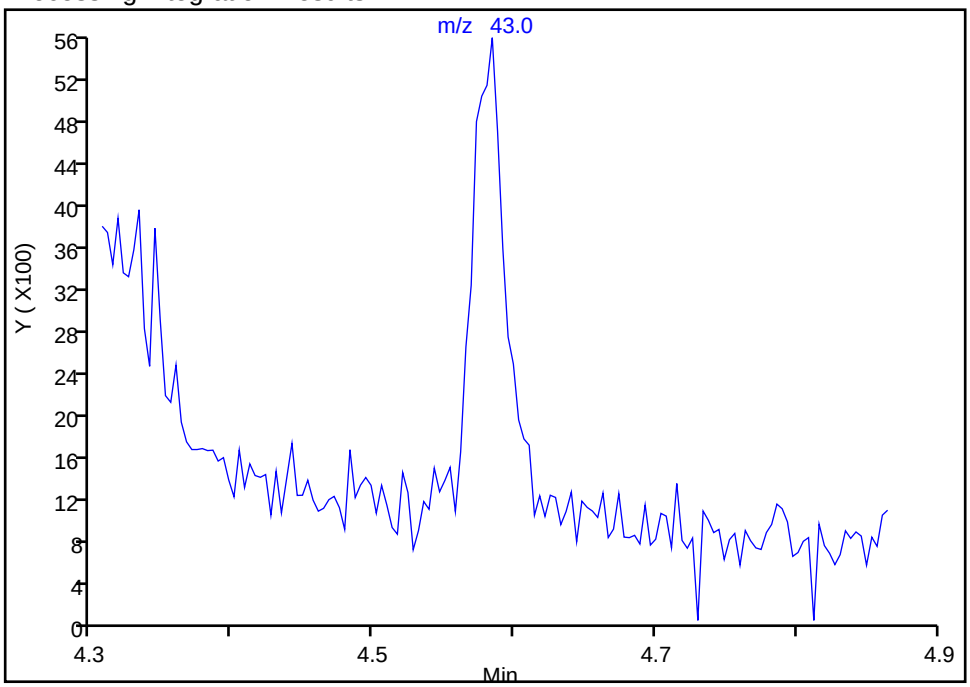
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11763.D				
Injection Date:	08-May-2024 23:59:30	Instrument ID:	VMS_G2		
Lims ID:	STD05				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	1	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

57 n-Heptane, CAS: 142-82-5

Signal: 1

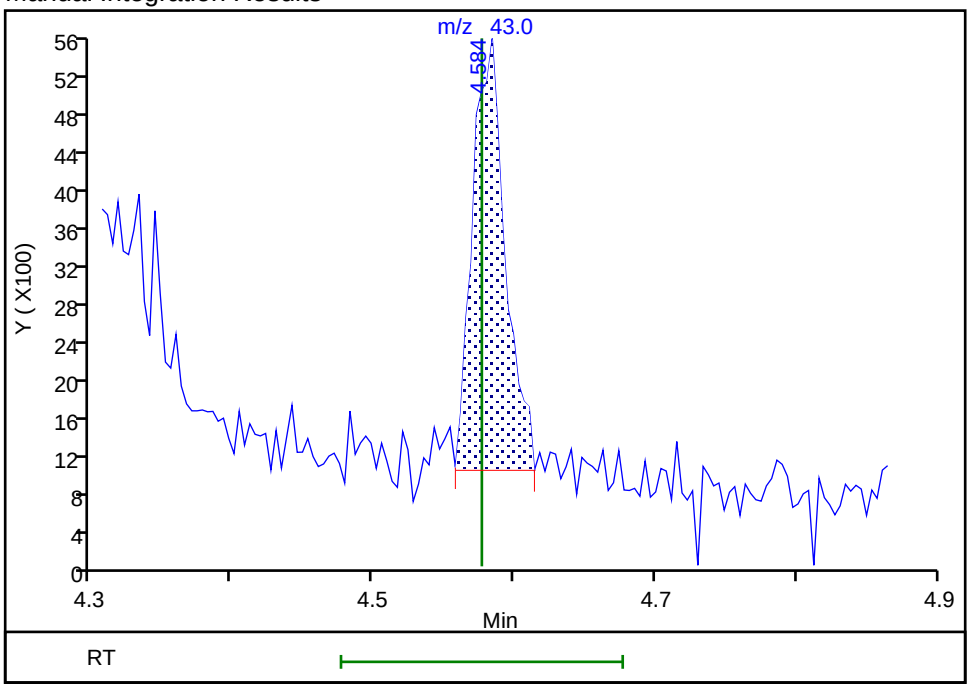
Not Detected
Expected RT: 4.58

Processing Integration Results



Manual Integration Results

RT: 4.58
Area: 7253
Amount: 0.571405
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 10:43:56 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

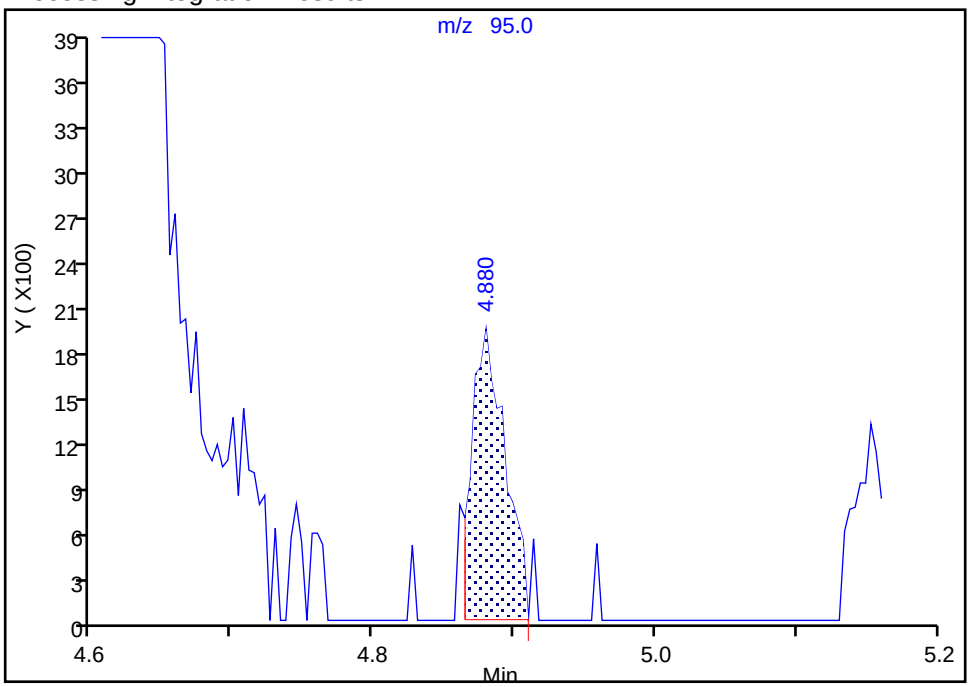
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11763.D				
Injection Date:	08-May-2024 23:59:30	Instrument ID:	VMS_G2		
Lims ID:	STD05				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	1	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

59 Trichloroethene, CAS: 79-01-6

Signal: 1

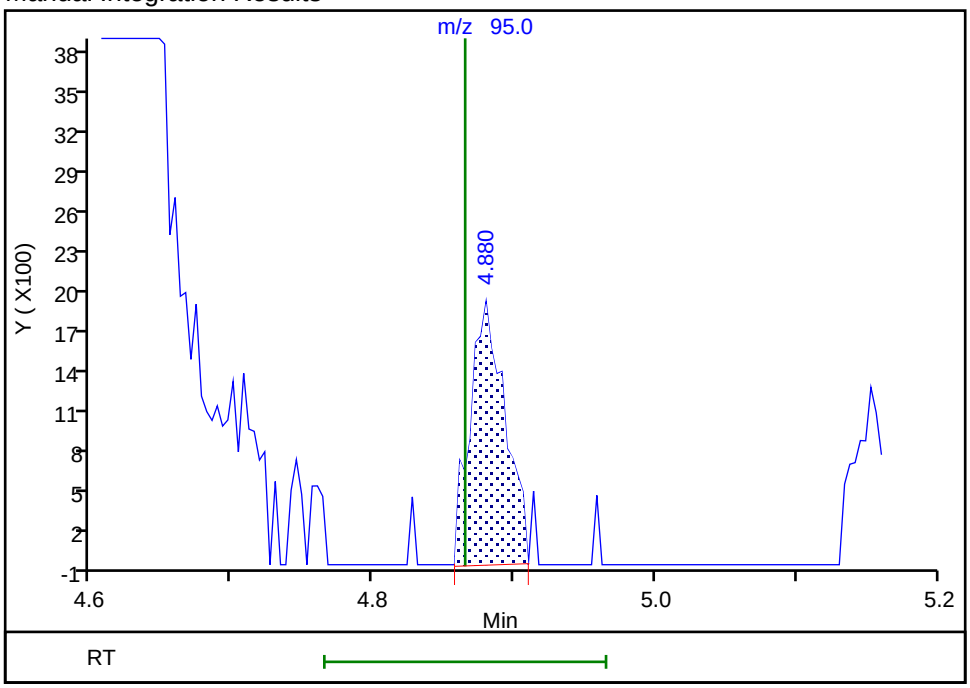
Processing Integration Results

RT: 4.88
Area: 3183
Amount: 0.452879
Amount Units: ug/l



Manual Integration Results

RT: 4.88
Area: 3356
Amount: 0.474896
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 10:44:53 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

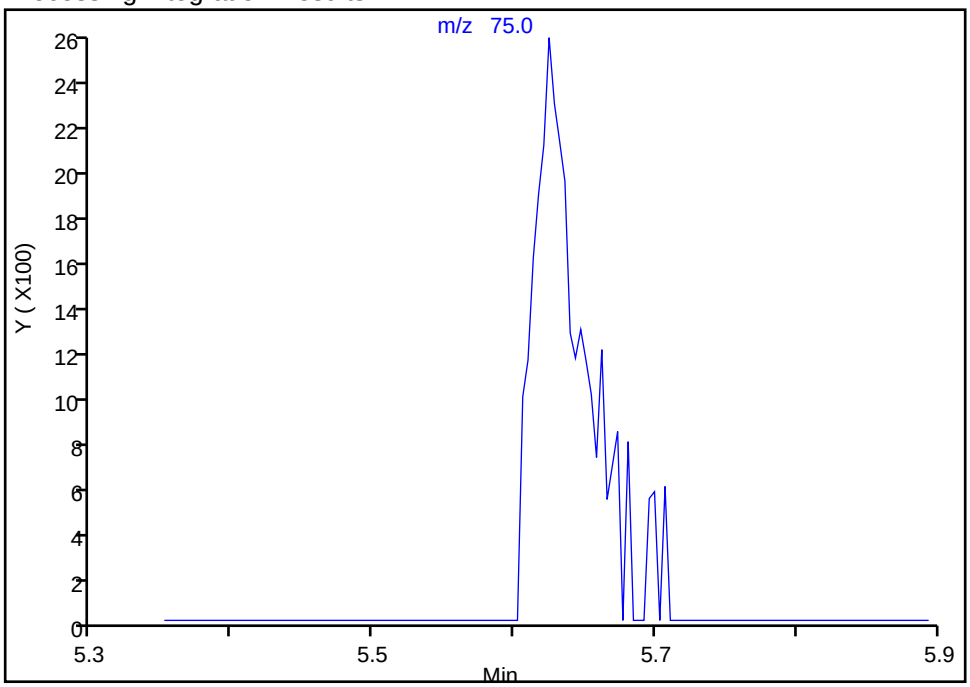
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11763.D
Injection Date: 08-May-2024 23:59:30 Instrument ID: VMS_G2
Lims ID: STD05
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 1 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

69 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

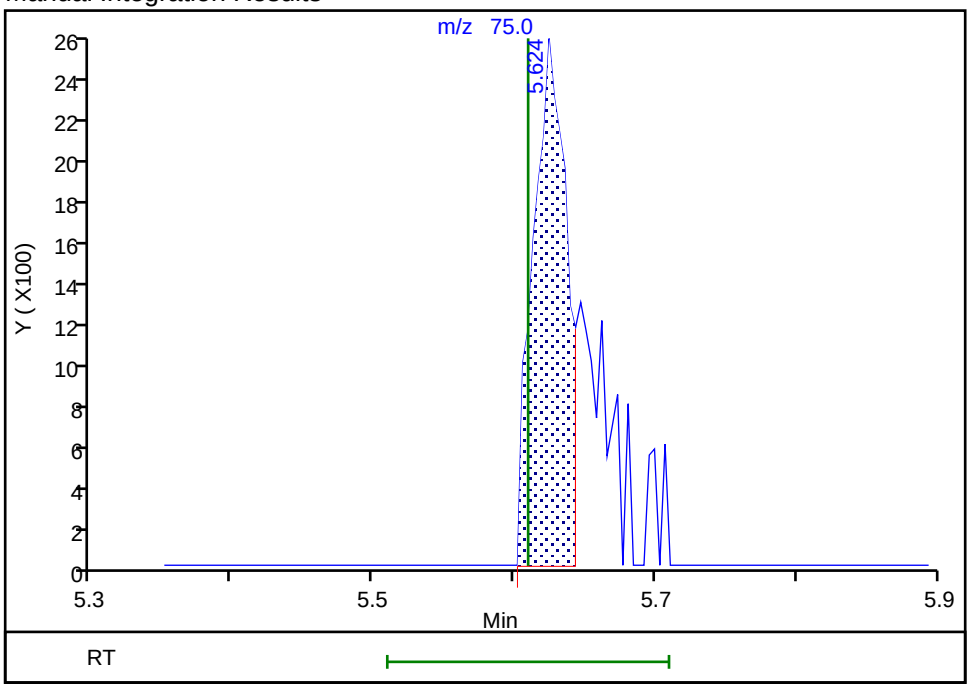
Not Detected
Expected RT: 5.61

Processing Integration Results



Manual Integration Results

RT: 5.62
Area: 4181
Amount: 0.337786
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 10:46:20 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins Denver

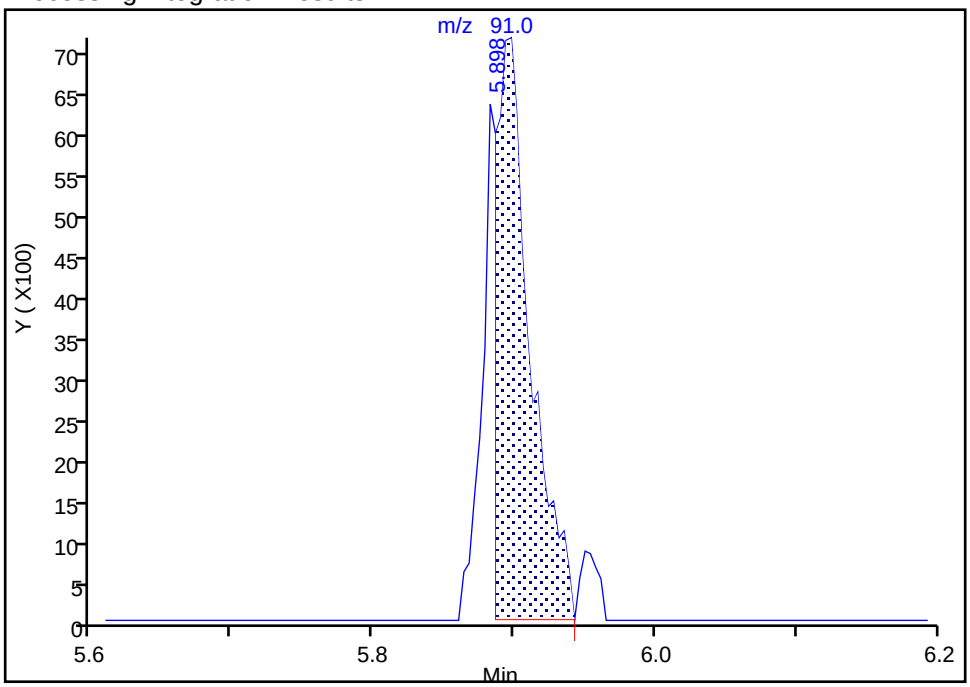
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11763.D
Injection Date: 08-May-2024 23:59:30 Instrument ID: VMS_G2
Lims ID: STD05
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 1 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

71 Toluene, CAS: 108-88-3

Signal: 1

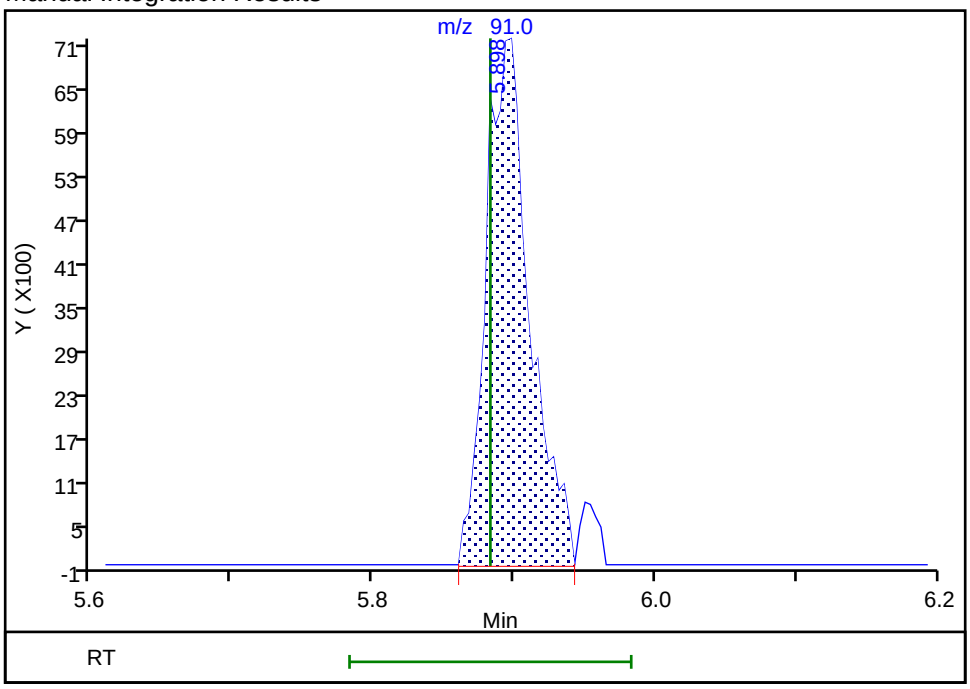
Processing Integration Results

RT: 5.90
Area: 12103
Amount: 0.401816
Amount Units: ug/l



Manual Integration Results

RT: 5.90
Area: 15459
Amount: 0.500833
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 10:46:42 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Denver

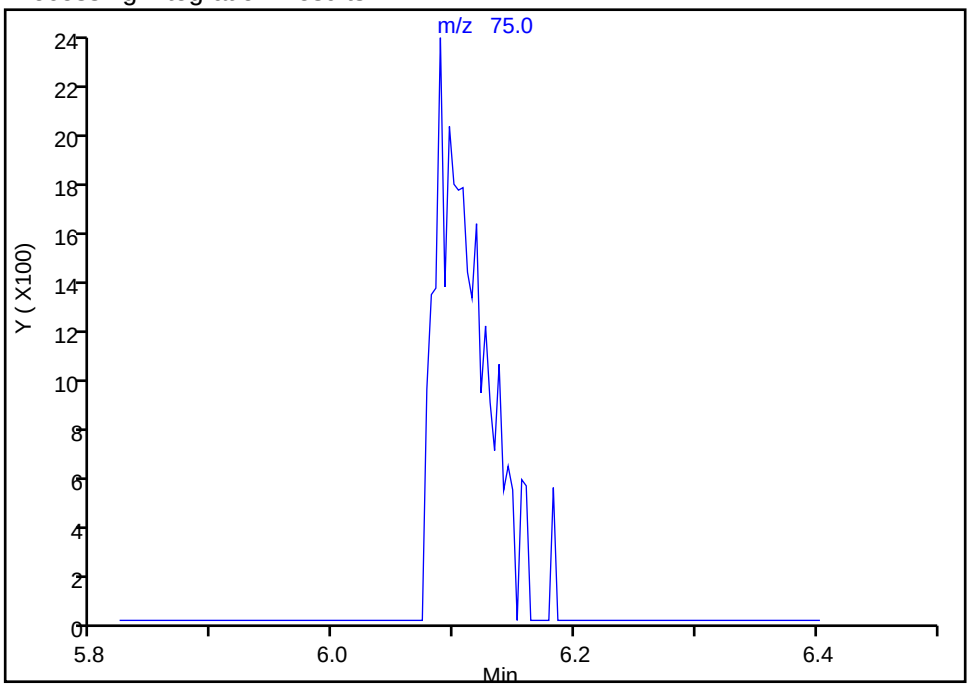
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11763.D
Injection Date: 08-May-2024 23:59:30 Instrument ID: VMS_G2
Lims ID: STD05
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 1 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

72 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

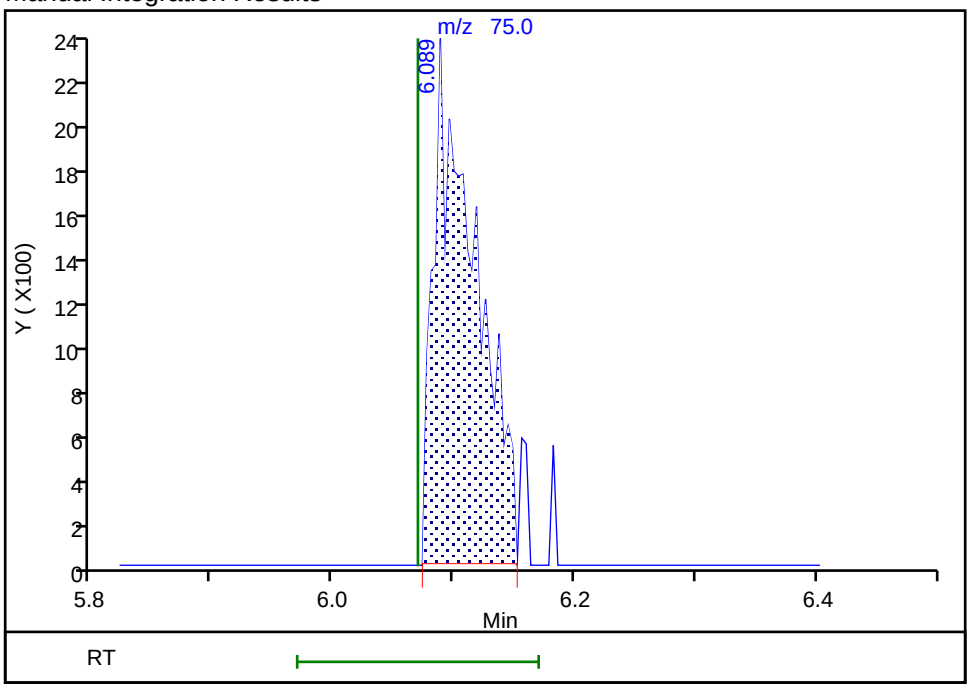
Not Detected
Expected RT: 6.07

Processing Integration Results



RT: 6.09
Area: 5620
Amount: 0.444446
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 09-May-2024 10:46:59 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

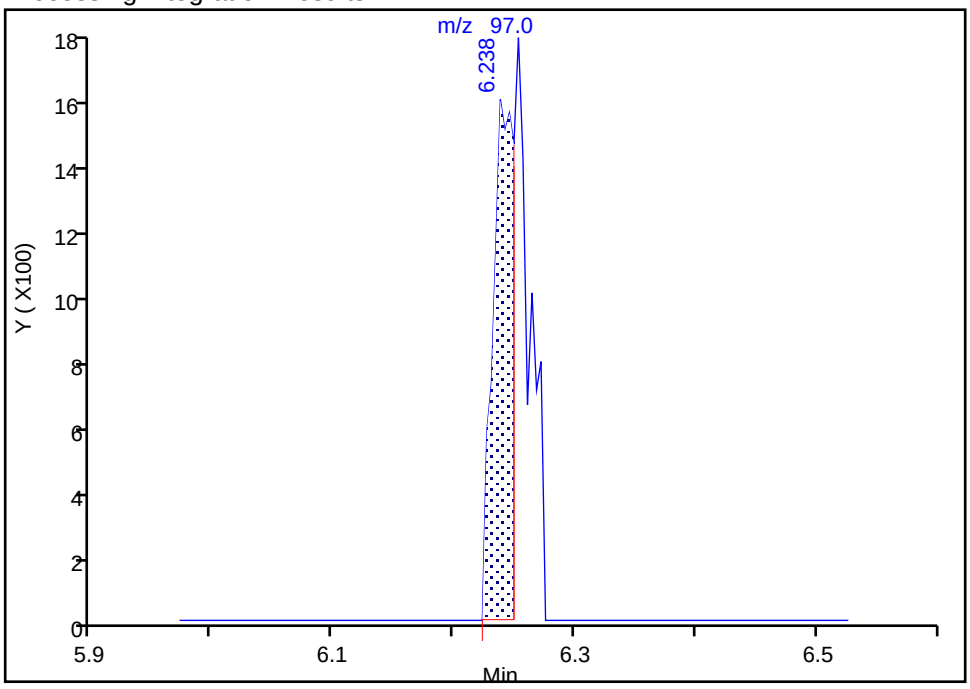
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11763.D
Injection Date: 08-May-2024 23:59:30 Instrument ID: VMS_G2
Lims ID: STD05
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 1 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

74 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

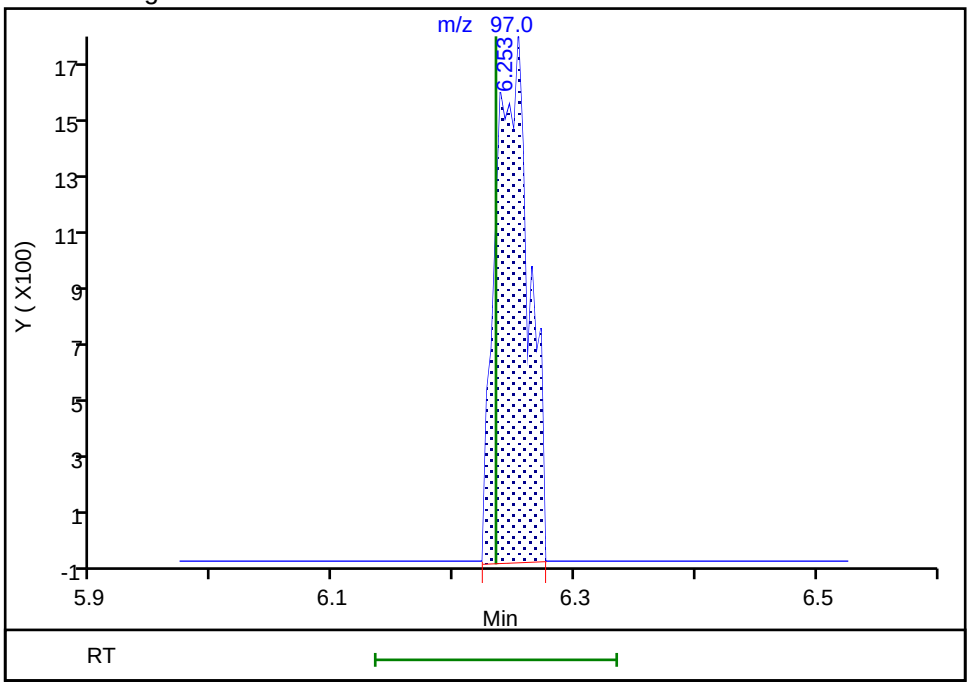
Processing Integration Results

RT: 6.24
Area: 1882
Amount: 0.482380
Amount Units: ug/l



Manual Integration Results

RT: 6.25
Area: 3293
Amount: 0.471925
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 10:47:40 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

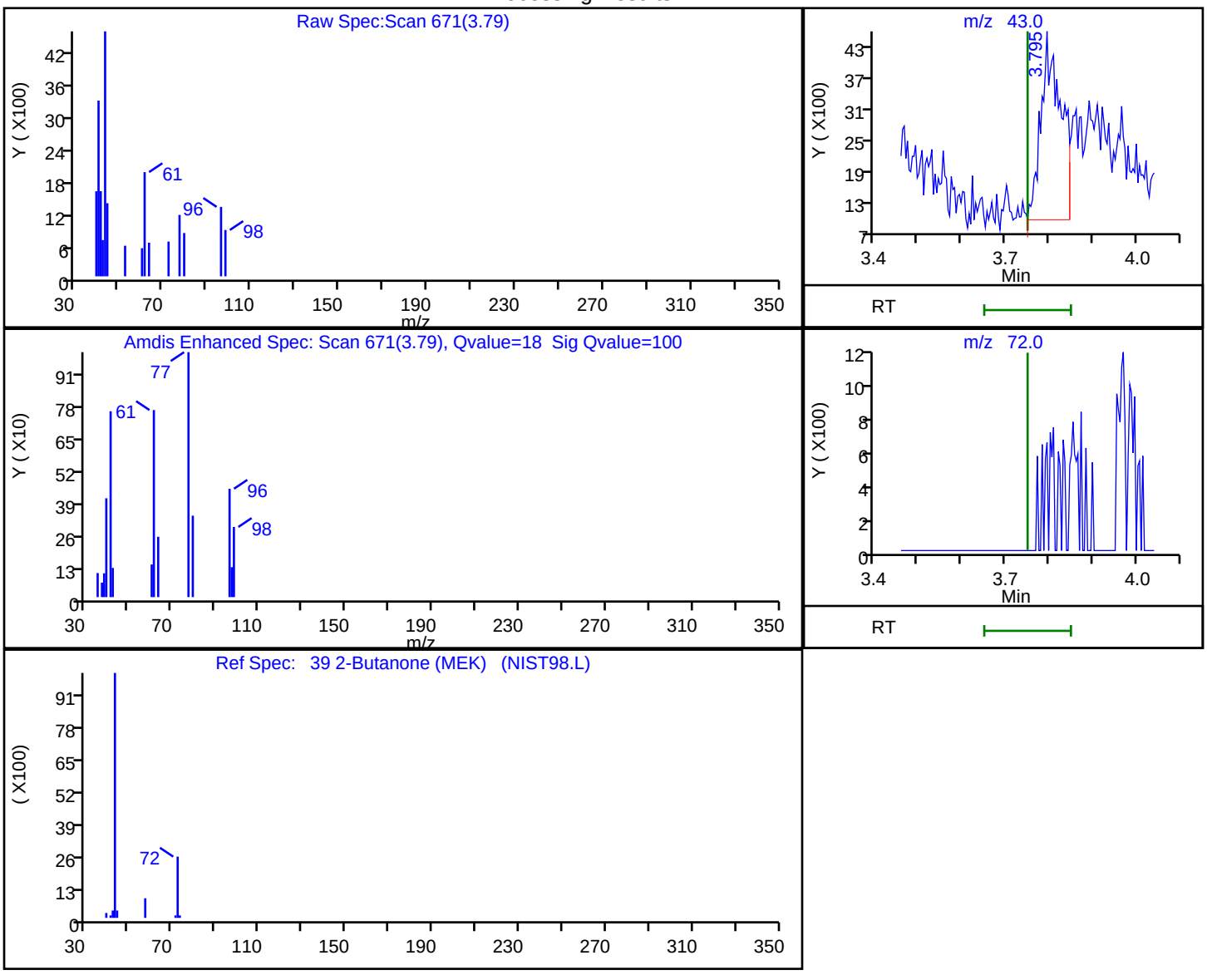
User Disabled Compound Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11763.D
Injection Date: 08-May-2024 23:59:30 Instrument ID: VMS_G2
Lims ID: STD05
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 1 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

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

Processing Results



RT	Mass	Response	Amount
3.79	43.00	11222	3.069114
3.75	72.00	0	

Reviewer: Q2ZS, 09-May-2024 12:12:34 -06:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

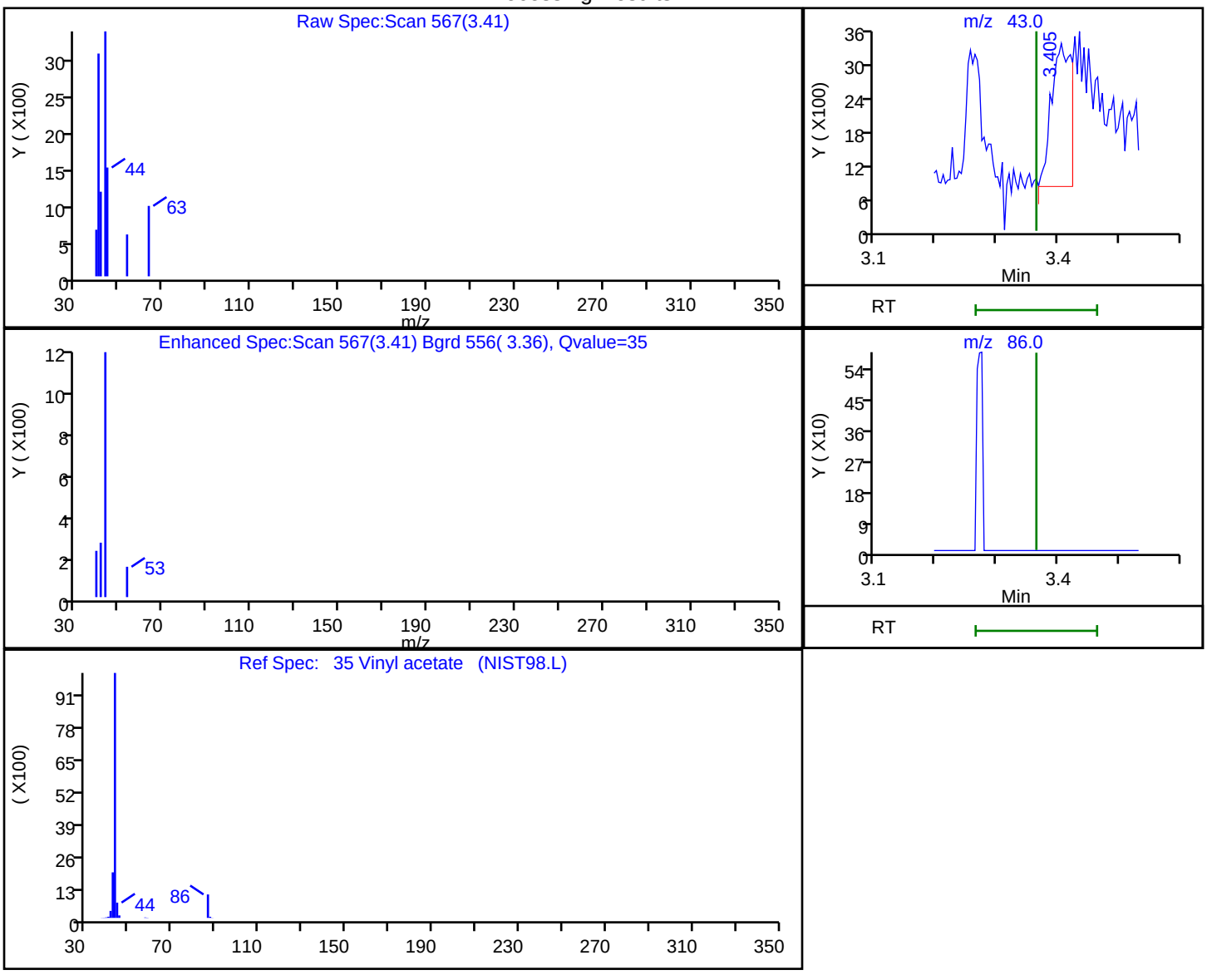
User Disabled Compound Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11763.D
Injection Date: 08-May-2024 23:59:30 Instrument ID: VMS_G2
Lims ID: STD05
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 1 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

35 Vinyl acetate, CAS: 108-05-4

Processing Results



RT	Mass	Response	Amount
3.41	43.00	5660	2.735731
3.41	86.00	0	

Reviewer: Q2ZS, 09-May-2024 12:09:42 -06:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 09-May-2024 00:19:30 ALS Bottle#: 2 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Operator ID: COULTER/CF Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub62

Method: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 09-May-2024 12:47:58 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: Q2ZS Date: 09-May-2024 11:15:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.599	4.595	0.004	96	1562581	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.080	7.077	0.003	94	321402	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.281	9.281	0.000	96	447573	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.113	4.113	0.000	92	333223	50.0	47.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.363	4.363	0.000	97	535789	50.0	48.2	
$ 6 Toluene-d8 (Surr)	98	5.827	5.827	0.000	96	1463105	50.0	48.9	
$ 7 4-Bromofluorobenzene (Surr)	95	8.169	8.166	0.003	79	539441	50.0	52.2	
9 Dichlorodifluoromethane	85	1.430	1.426	0.004	92	6678	1.00	1.11	
10 Chloromethane	50	1.635	1.628	0.007	97	9165	1.00	1.01	
11 Vinyl chloride	62	1.662	1.665	-0.003	68	7786	1.00	1.09	
12 Bromomethane	94	1.920	1.912	0.008	1	2164	1.00	0.9439	
13 Chloroethane	64	1.998	1.991	0.007	31	3305	1.00	0.7366	M
14 Dichlorofluoromethane	67	2.152	2.152	0.000	40	10796	1.00	0.8771	
15 Trichlorofluoromethane	101	2.178	2.178	0.000	95	9823	1.00	1.05	
18 Ethyl ether	59	2.380	2.373	0.007	98	6566	1.00	0.8174	
19 Acrolein	56	2.496	2.477	0.019	86	18911	9.88	9.31	M
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.548	2.541	0.007	66	3982	1.00	0.99	M
21 1,1-Dichloroethene	96	2.552	2.545	0.007	92	5724	1.00	0.9715	
22 Acetone	43	2.597	2.575	0.022	97	28108	4.00	3.59	
23 Iodomethane	142	2.668	2.657	0.011	91	5533	1.00	0.7263	M
25 Carbon disulfide	76	2.717	2.713	0.004	100	15351	1.00	0.8469	
26 Methyl acetate	43	2.814	2.784	0.030	64	18894	2.00	2.08	M
16 3-Chloro-1-propene	41	2.803	2.795	0.008	88	14424	1.00	0.9643	
28 Methylene Chloride	84	2.893	2.889	0.004	96	10553	1.00	1.25	M
29 2-Methyl-2-propanol	59	2.941	2.941	0.000	98	33608	10.0	8.26	
30 Acrylonitrile	53	3.095	3.042	0.053	76	49142	10.0	10.4	M
31 Methyl tert-butyl ether	73	3.061	3.057	0.004	98	28398	1.00	0.99	
32 trans-1,2-Dichloroethene	96	3.080	3.072	0.008	89	4706	1.00	0.7681	
33 Hexane	57	3.256	3.256	0.000	94	12231	1.00	1.03	
35 Vinyl acetate	43	3.398	3.364	0.034	93	42412	2.00	2.11	M
34 1,1-Dichloroethane	63	3.379	3.372	0.007	95	16031	1.00	1.01	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Butanone (MEK)	43	3.795	3.750	0.045	77	24339	4.00	4.10	
40 cis-1,2-Dichloroethene	96	3.783	3.768	0.015	82	6679	1.00	0.9649	M
41 2,2-Dichloropropane	77	3.776	3.772	0.004	84	12530	1.00	1.11	
44 sec-Butyl Alcohol	45	3.899	3.869	0.030	98	36475	24.0	25.2	
46 Chlorobromomethane	128	3.948	3.941	0.007	73	1617	1.00	1.25	
47 Tetrahydrofuran	42	3.959	3.948	0.011	94	13994	2.00	1.58	
48 Chloroform	83	4.004	3.997	0.007	97	12588	1.00	0.9144	
49 1,1,1-Trichloroethane	97	4.124	4.128	-0.004	97	11096	1.00	0.9841	
50 Cyclohexane	56	4.176	4.180	-0.004	94	17884	1.00	1.04	
52 1,1-Dichloropropene	75	4.251	4.240	0.011	79	6277	1.00	0.9608	a
51 Carbon tetrachloride	117	4.247	4.240	0.007	91	8337	1.00	0.9634	M
53 Isobutyl alcohol	41	4.296	4.277	0.019	97	16878	25.0	22.9	a
54 Benzene	78	4.393	4.386	0.007	67	29915	1.00	0.9356	
55 1,2-Dichloroethane	62	4.423	4.420	0.003	94	13892	1.00	1.03	a
57 n-Heptane	43	4.581	4.577	0.003	94	14177	1.00	1.09	a
59 Trichloroethene	95	4.876	4.865	0.011	92	6626	1.00	0.8925	
60 2-Pentanone	43	5.007	4.977	0.030	35	24045	3.20	3.19	
61 Methylcyclohexane	55	5.048	5.045	0.003	94	14244	1.00	1.09	
62 1,2-Dichloropropane	63	5.067	5.063	0.004	76	9201	1.00	0.9437	
64 1,4-Dioxane	88		5.127				ND	ND	U
65 Dibromomethane	93	5.142	5.138	0.004	90	3702	1.00	0.7687	
66 Dichlorobromomethane	83	5.269	5.262	0.007	93	9120	1.00	0.8579	
68 2-Chloroethyl vinyl ether	63	5.494	5.471	0.023	1	2298	1.00	1.38	
69 cis-1,3-Dichloropropene	75	5.625	5.610	0.015	88	12654	1.00	0.9731	
70 4-Methyl-2-pentanone (MIBK)	43	5.718	5.711	0.007	99	78529	4.00	3.42	
71 Toluene	91	5.890	5.883	0.007	76	29551	1.00	0.9354	
72 trans-1,3-Dichloropropene	75	6.096	6.070	0.026	66	12065	1.00	0.9323	M
73 Ethyl methacrylate	69	6.119	6.096	0.023	87	8694	1.00	1.00	M
74 1,1,2-Trichloroethane	97	6.242	6.235	0.007	90	6153	1.00	0.8616	
75 Tetrachloroethene	164	6.321	6.317	0.004	85	3085	1.00	0.9739	
76 1,3-Dichloropropane	76	6.388	6.377	0.011	85	12713	1.00	0.9306	
77 2-Hexanone	43	6.422	6.407	0.015	98	43628	4.00	3.87	
78 Chlorodibromomethane	129	6.571	6.564	0.007	89	5812	1.00	0.8394	
79 Ethylene Dibromide	107	6.687	6.676	0.011	98	5615	1.00	0.7924	
80 1-Chlorohexane	91	7.084	7.073	0.011	34	9495	0.8000	0.9382	M
81 Chlorobenzene	112	7.107	7.103	0.004	90	17443	1.00	0.9569	
82 1,1,1,2-Tetrachloroethane	131	7.178	7.178	0.000	90	6122	1.00	0.9464	
83 Ethylbenzene	106	7.193	7.185	0.008	98	9735	1.00	1.00	M
84 m-Xylene & p-Xylene	106	7.316	7.305	0.011	94	10061	1.00	0.8436	
85 o-Xylene	106	7.660	7.657	0.003	96	11268	1.00	0.9404	
86 Styrene	104	7.690	7.675	0.015	42	15895	1.00	0.8154	
87 Bromoform	173	7.855	7.847	0.008	88	3770	1.00	0.7802	
88 Isopropylbenzene	105	8.001	7.993	0.008	97	31996	1.00	1.05	
89 Cyclohexanone	55	8.094	8.087	0.007	97	41756	30.0	30.6	
91 1,1,2,2-Tetrachloroethane	83	8.293	8.289	0.004	94	12450	1.00	1.06	
92 Bromobenzene	156	8.319	8.300	0.019	77	5907	1.00	0.9836	Ma
93 trans-1,4-Dichloro-2-butene	53	8.356	8.326	0.030	68	5027	1.00	0.9783	M
94 1,2,3-Trichloropropane	110	8.353	8.345	0.008	86	3865	1.00	1.03	M
95 N-Propylbenzene	120	8.405	8.390	0.015	98	6821	1.00	0.9399	
96 2-Chlorotoluene	126	8.487	8.480	0.007	92	5409	1.00	0.9205	
97 1,3,5-Trimethylbenzene	105	8.573	8.562	0.011	94	24556	1.00	1.02	
98 4-Chlorotoluene	126	8.611	8.596	0.015	96	4488	1.00	0.7508	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 tert-Butylbenzene	119	8.869	8.865	0.004	93	21821	1.00	1.08	
100 1,2,4-Trimethylbenzene	105	8.936	8.925	0.011	97	23423	1.00	0.9809	
101 sec-Butylbenzene	134	9.090	9.082	0.008	96	4893	1.00	0.9425	
102 1,3-Dichlorobenzene	146	9.210	9.206	0.004	92	10205	1.00	0.8862	
103 4-Isopropyltoluene	119	9.240	9.236	0.004	97	25715	1.00	1.08	
104 1,4-Dichlorobenzene	146	9.311	9.303	0.008	45	12559	1.00	1.07	
106 n-Butylbenzene	91	9.644	9.633	0.012	98	22807	1.00	1.03	
107 1,2-Dichlorobenzene	146	9.662	9.651	0.011	91	11451	1.00	1.02	
108 1,2-Dibromo-3-Chloropropane	157	10.433	10.426	0.007	70	2256	1.00	0.7393	
110 1,2,4-Trichlorobenzene	180	11.249	11.242	0.007	90	5759	1.00	0.9256	
111 Hexachlorobutadiene	225	11.384	11.384	0.000	85	2703	1.00	0.9329	
112 Naphthalene	128	11.511	11.500	0.011	96	20035	1.00	0.8826	
113 1,2,3-Trichlorobenzene	180	11.732	11.721	0.011	90	5963	1.00	0.9797	
S 115 1,2-Dichloroethene, Total	1				0		2.00	1.73	
S 116 1,3-Dichloropropene, Total	1				0		2.00	1.91	
S 117 Xylenes, Total	106				0		2.00	1.78	
S 118 Total BTEX	1				0			4.66	
S 119 Trihalomethanes, Total	1				0		4.00	3.39	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

Cal Dil B_00001	Amount Added:	10.00	Units: uL	
mv-IS_SS_00079	Amount Added:	5.00	Units: uL	Run Reagent

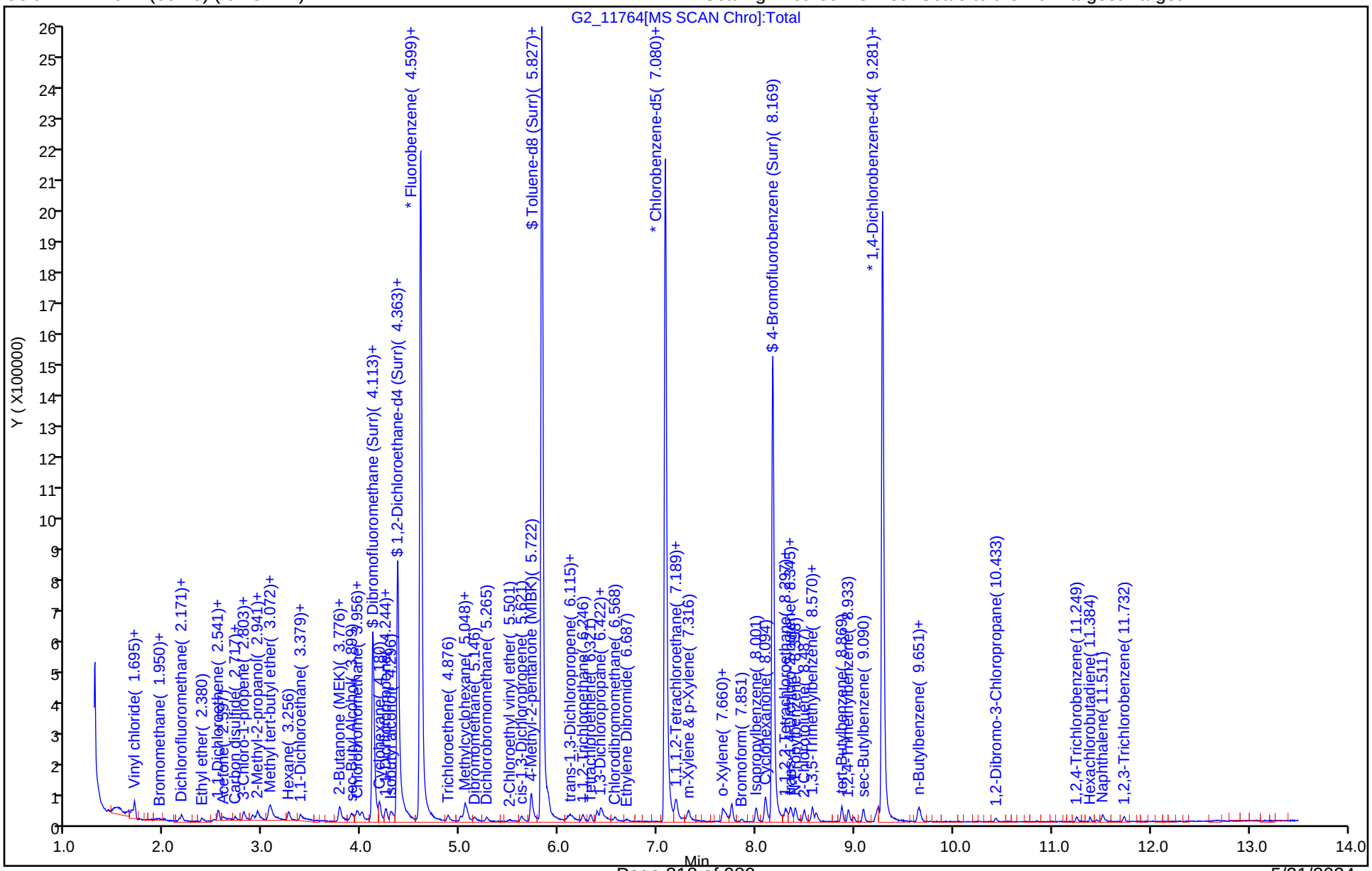
Report Date: 09-May-2024 12:47:59 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D

Injection Date:	09-May-2024 00:19:30	Instrument ID:	VMS_G2	Operator ID:	COULTER/CF
Lims ID:	STD1			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Denver

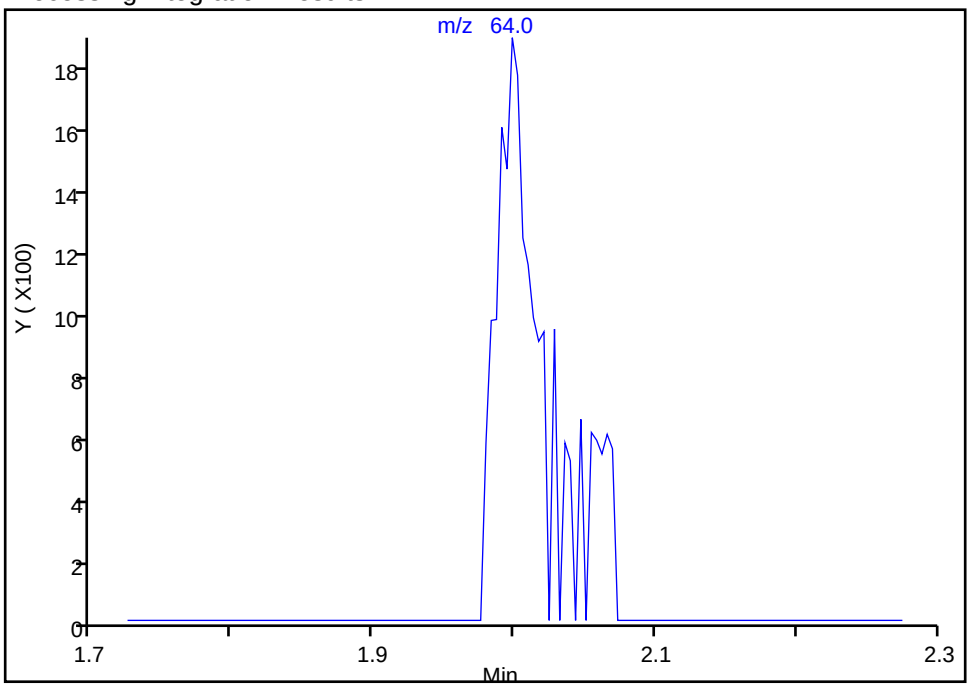
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D
Injection Date: 09-May-2024 00:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 2 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

13 Chloroethane, CAS: 75-00-3

Signal: 1

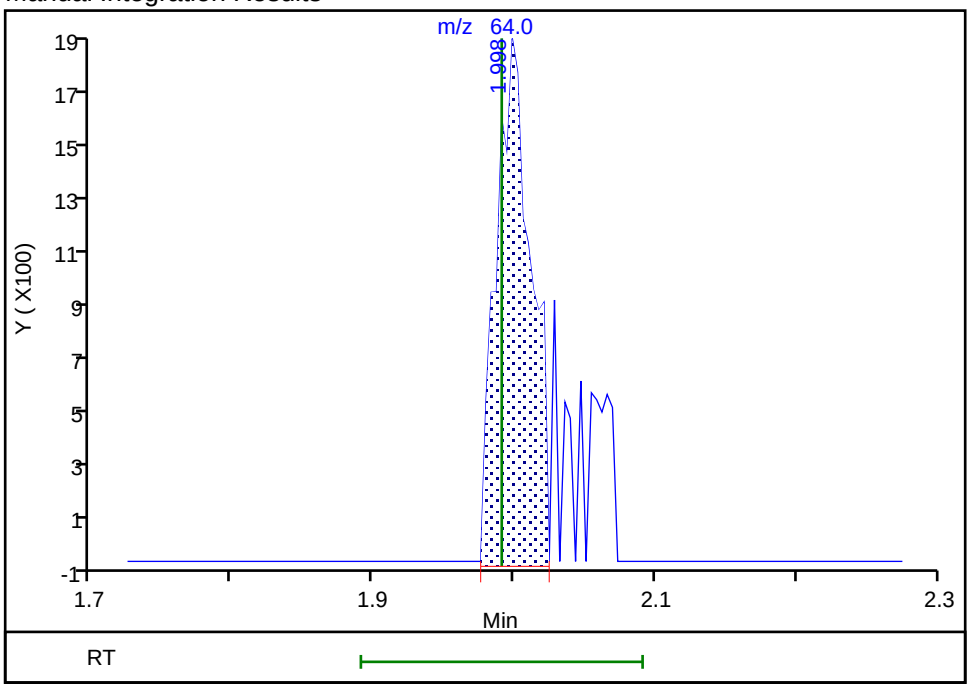
Not Detected
Expected RT: 1.99

Processing Integration Results



Manual Integration Results

RT: 2.00
Area: 3305
Amount: 0.736571
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:02:15 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

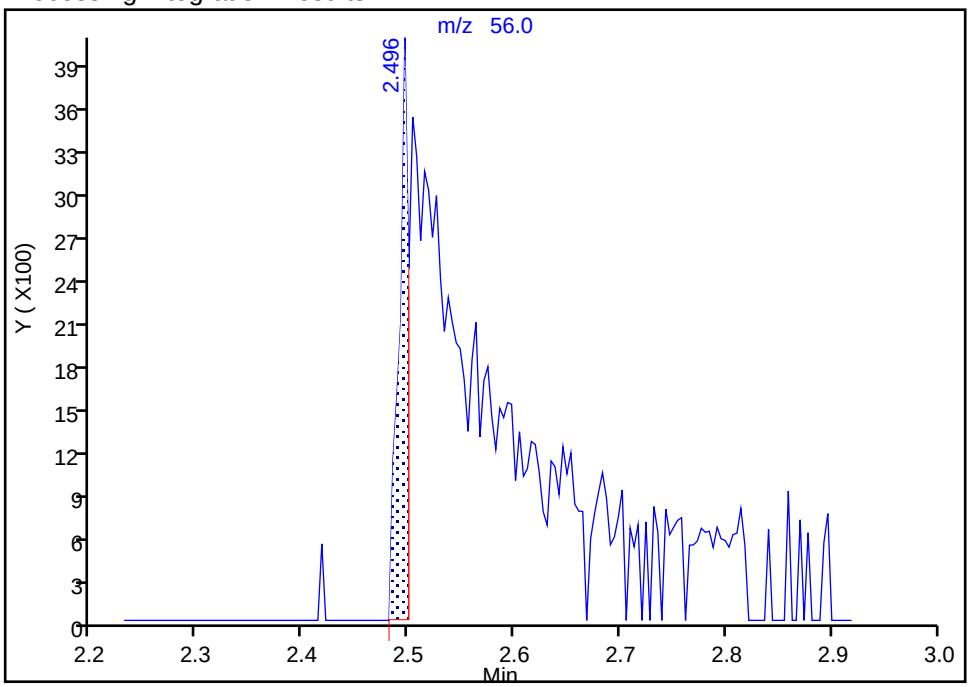
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D
Injection Date: 09-May-2024 00:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 2 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

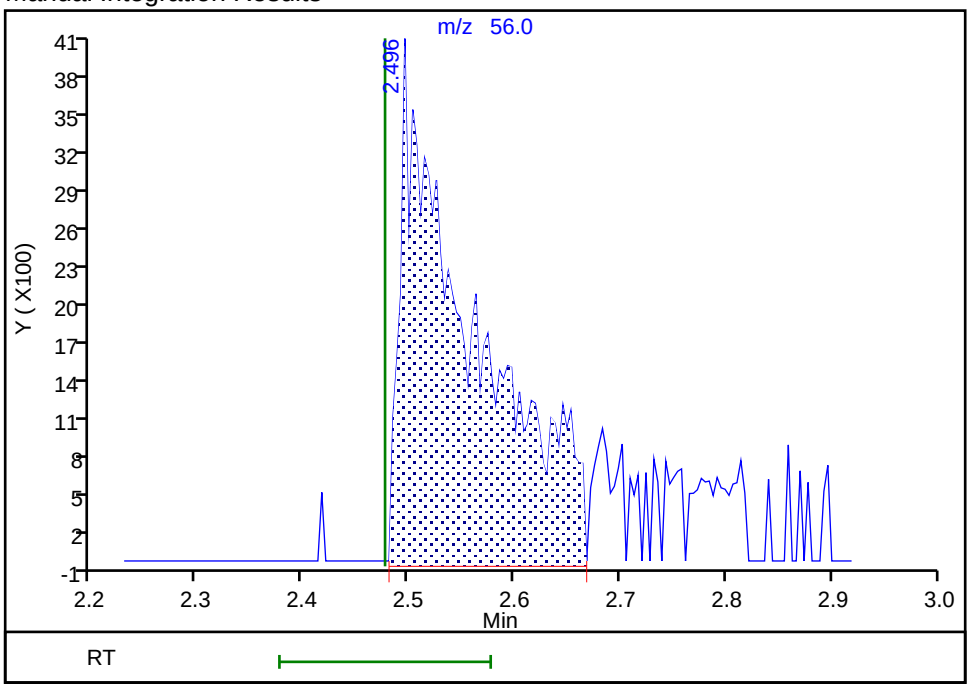
Processing Integration Results

RT: 2.50
Area: 2517
Amount: 1.362413
Amount Units: ug/l



Manual Integration Results

RT: 2.50
Area: 18911
Amount: 9.306968
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:02:35 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

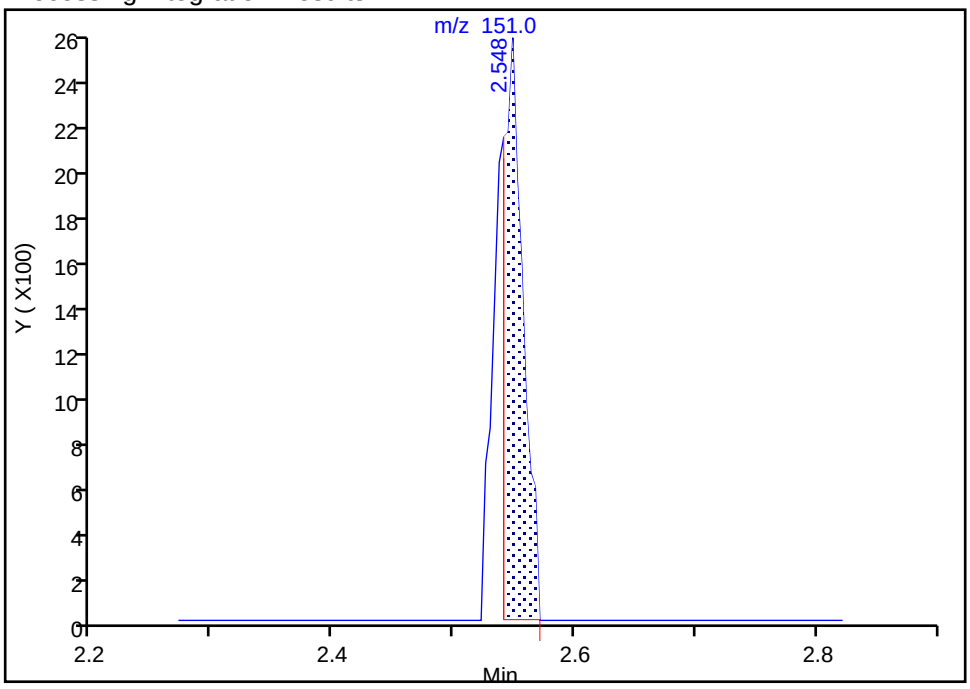
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D				
Injection Date:	09-May-2024 00:19:30	Instrument ID:	VMS_G2		
Lims ID:	STD1				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	2	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

20 1,1,2-Trichloro-1,2,2-trifluoroe, CAS: 76-13-1

Signal: 1

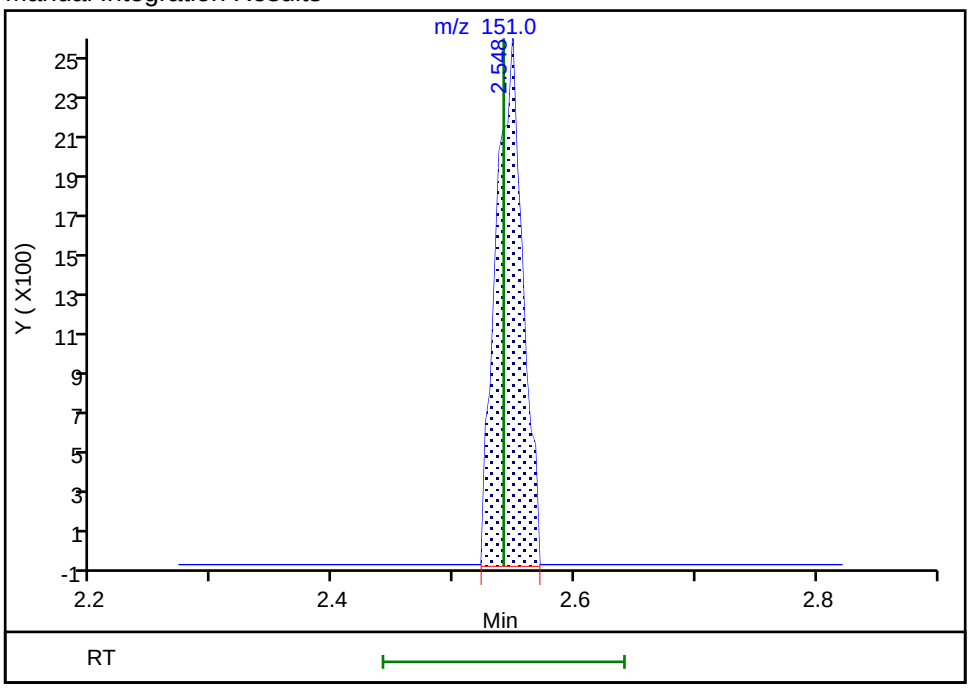
Processing Integration Results

RT: 2.55
Area: 2843
Amount: 0.731152
Amount Units: ug/l



Manual Integration Results

RT: 2.55
Area: 3982
Amount: 0.991795
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:03:04 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Denver

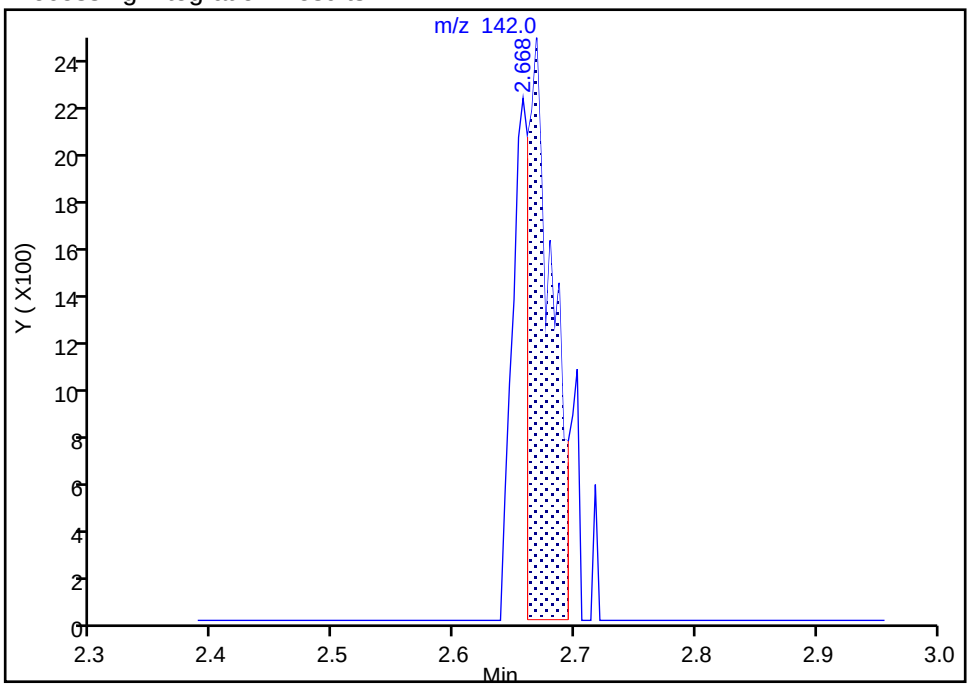
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D
Injection Date: 09-May-2024 00:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 2 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

23 Iodomethane, CAS: 74-88-4

Signal: 1

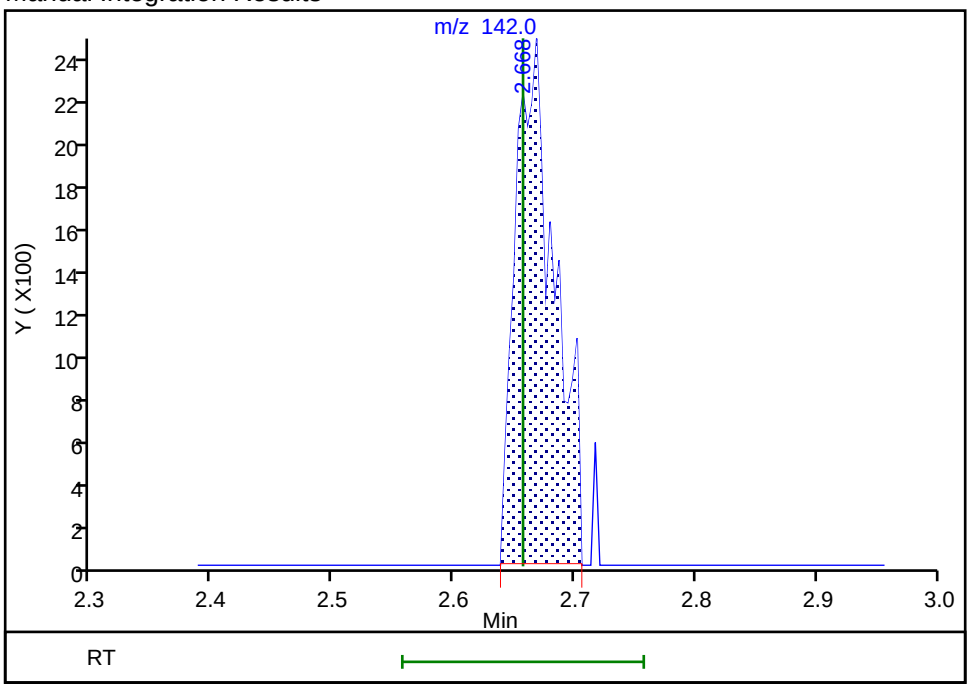
Processing Integration Results

RT: 2.67
Area: 3506
Amount: 1.127812
Amount Units: ug/l



Manual Integration Results

RT: 2.67
Area: 5533
Amount: 0.726288
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:52:14 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

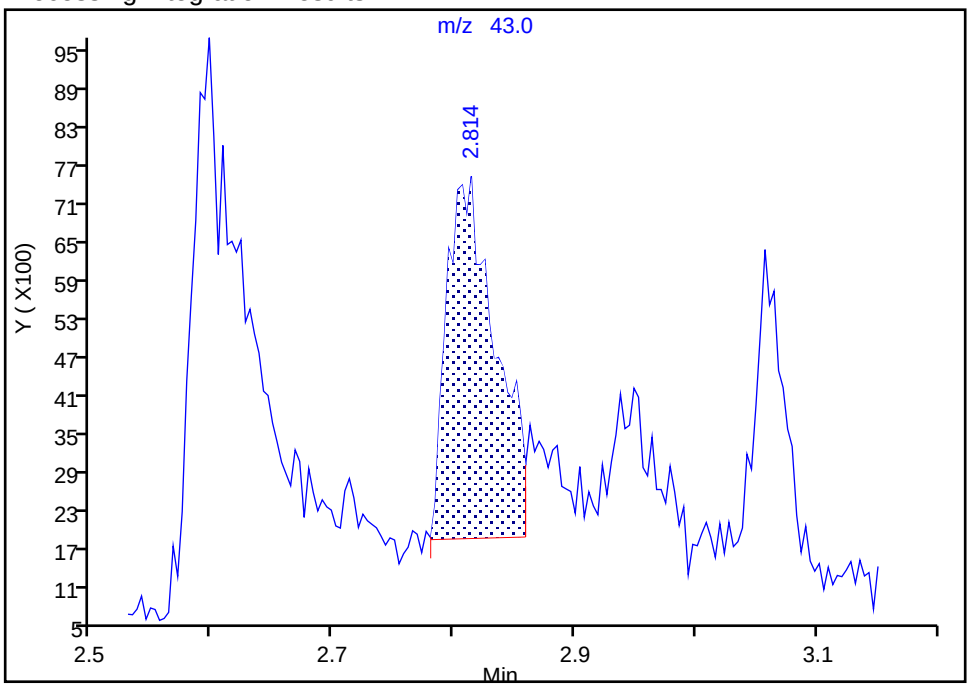
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D				
Injection Date:	09-May-2024 00:19:30	Instrument ID:	VMS_G2		
Lims ID:	STD1				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	2	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

26 Methyl acetate, CAS: 79-20-9

Signal: 1

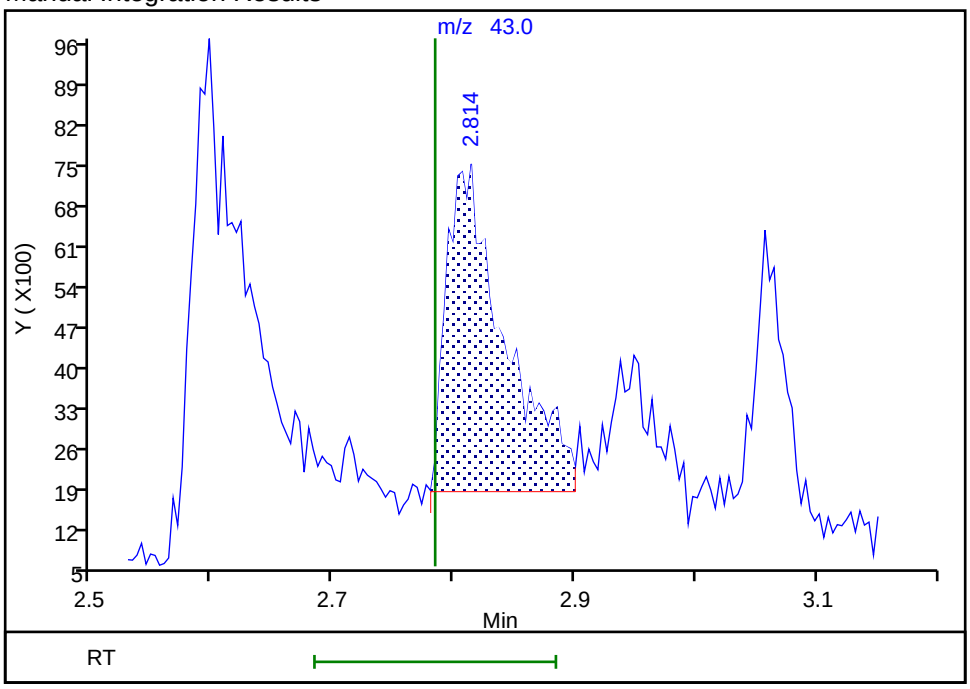
Processing Integration Results

RT: 2.81
Area: 15832
Amount: 2.079453
Amount Units: ug/l



Manual Integration Results

RT: 2.81
Area: 18894
Amount: 2.076619
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 12:03:17 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

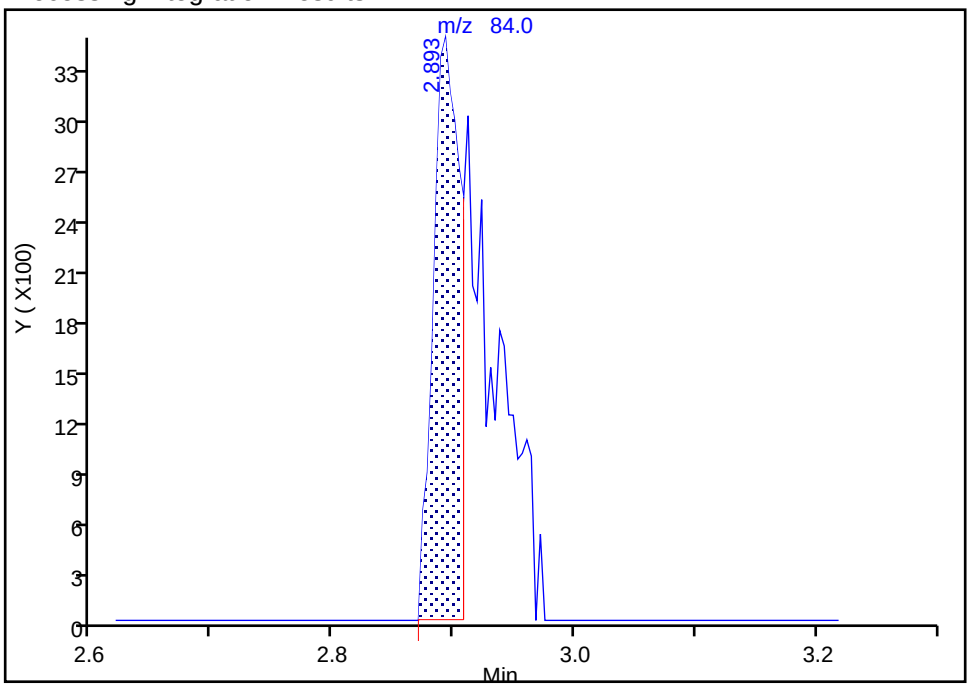
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D				
Injection Date:	09-May-2024 00:19:30	Instrument ID:	VMS_G2		
Lims ID:	STD1				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	2	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

28 Methylene Chloride, CAS: 75-09-2

Signal: 1

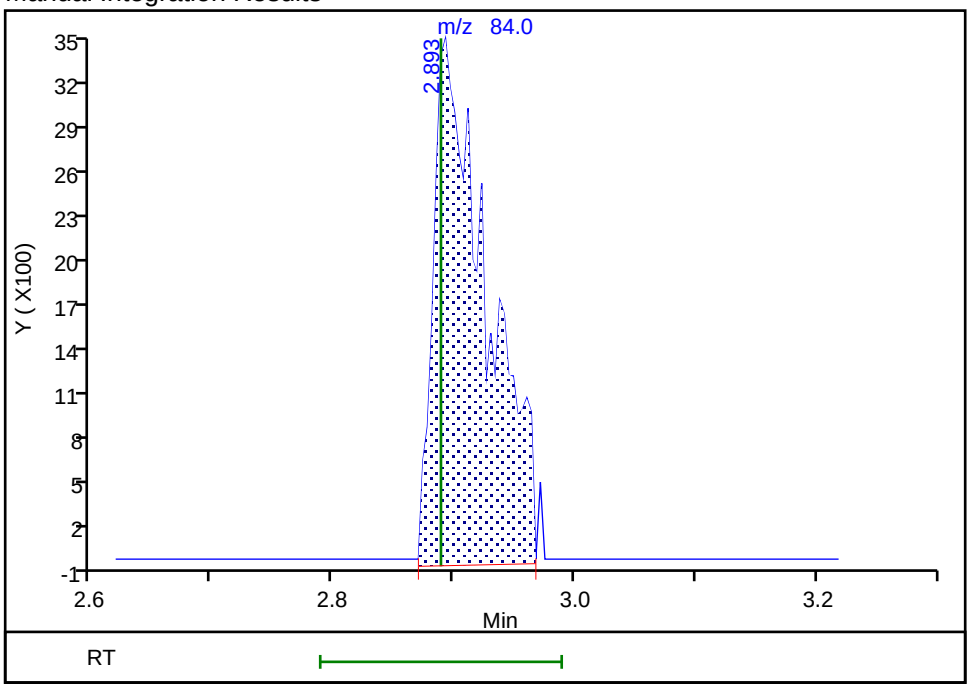
Processing Integration Results

RT: 2.89
Area: 5268
Amount: 0.648979
Amount Units: ug/l



Manual Integration Results

RT: 2.89
Area: 10553
Amount: 1.246177
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:03:30 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Denver

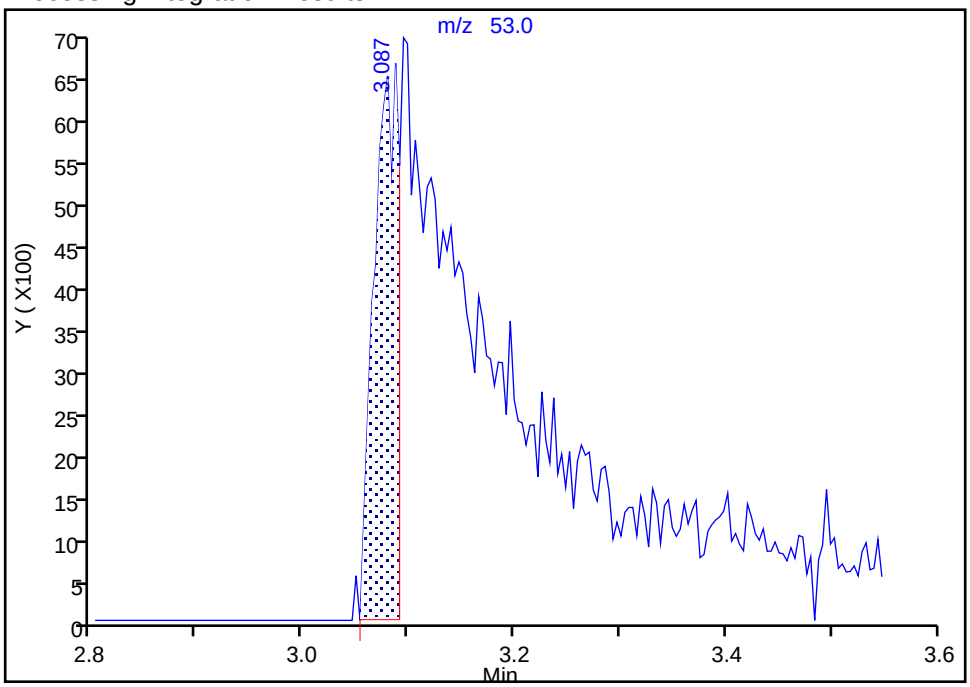
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D
Injection Date: 09-May-2024 00:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 2 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

30 Acrylonitrile, CAS: 107-13-1

Signal: 1

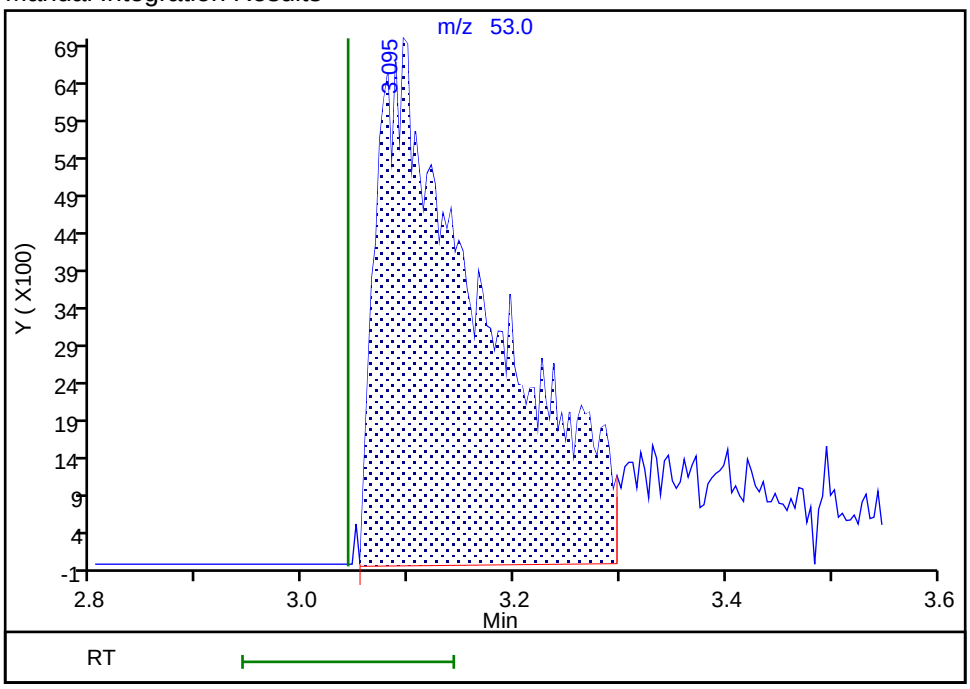
Processing Integration Results

RT: 3.09
Area: 10651
Amount: 7.277065
Amount Units: ug/l



Manual Integration Results

RT: 3.09
Area: 49142
Amount: 10.390850
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:03:59 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

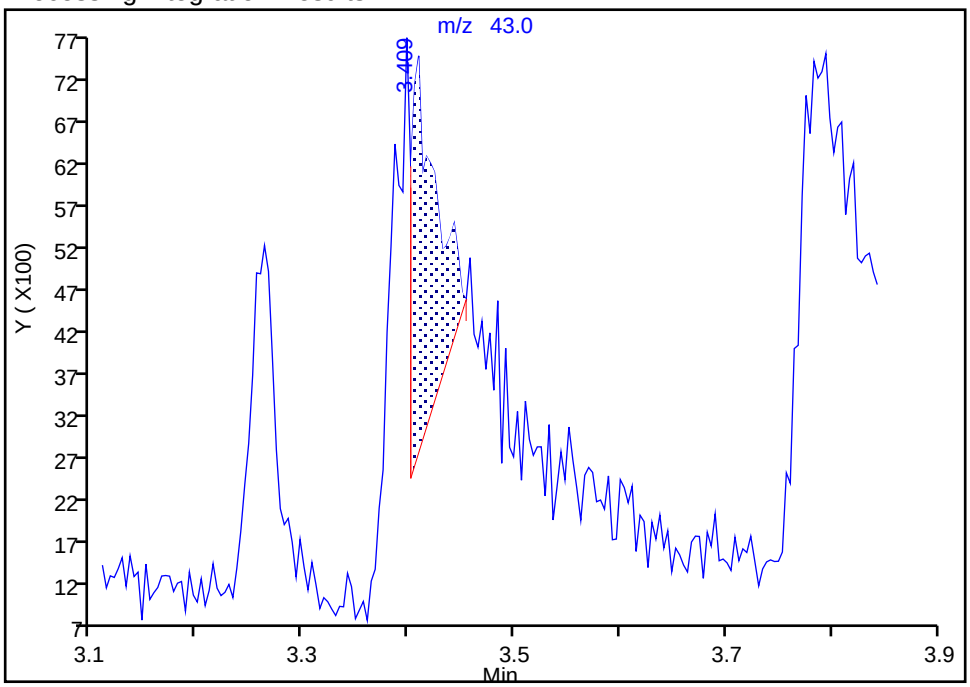
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D				
Injection Date:	09-May-2024 00:19:30	Instrument ID:	VMS_G2		
Lims ID:	STD1				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	2	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

35 Vinyl acetate, CAS: 108-05-4

Signal: 1

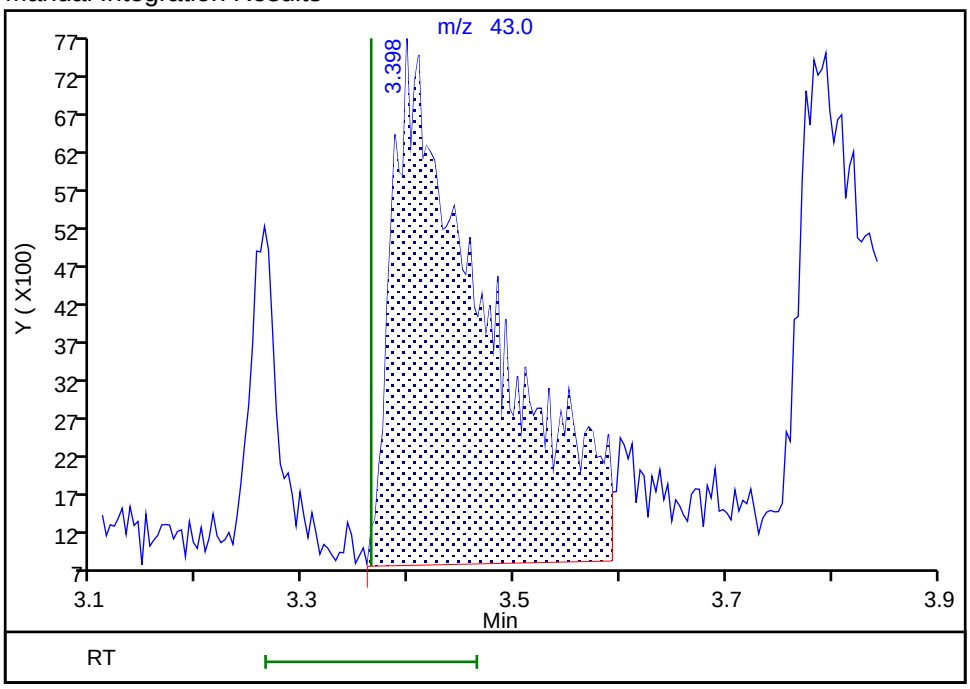
Processing Integration Results

RT: 3.41
Area: 7615
Amount: 4.127302
Amount Units: ug/l



Manual Integration Results

RT: 3.40
Area: 42412
Amount: 2.110503
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 12:09:28 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

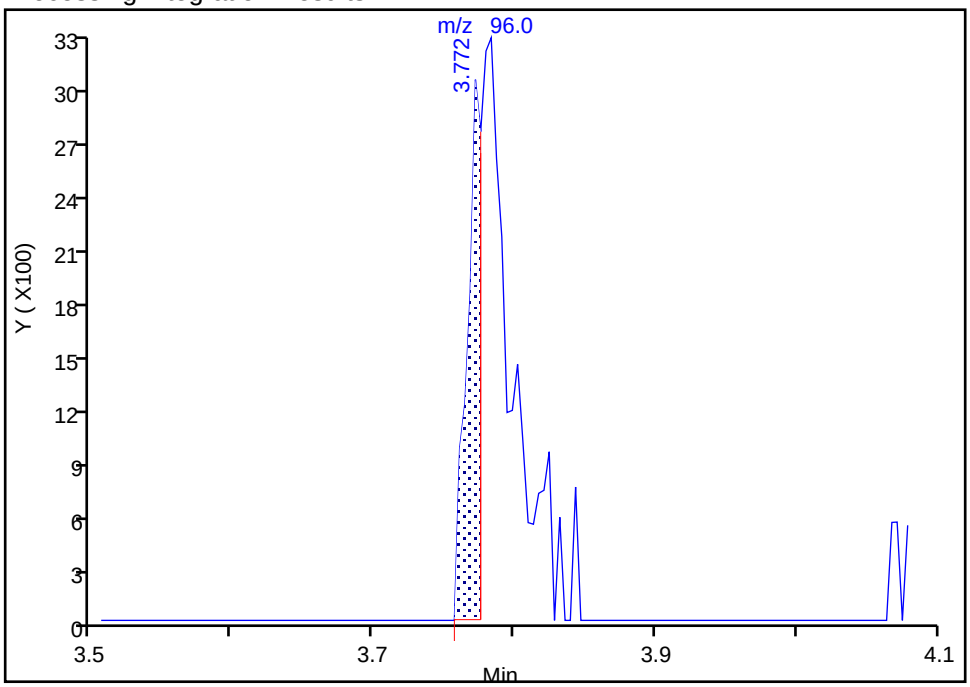
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D				
Injection Date:	09-May-2024 00:19:30	Instrument ID:	VMS_G2		
Lims ID:	STD1				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	2	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

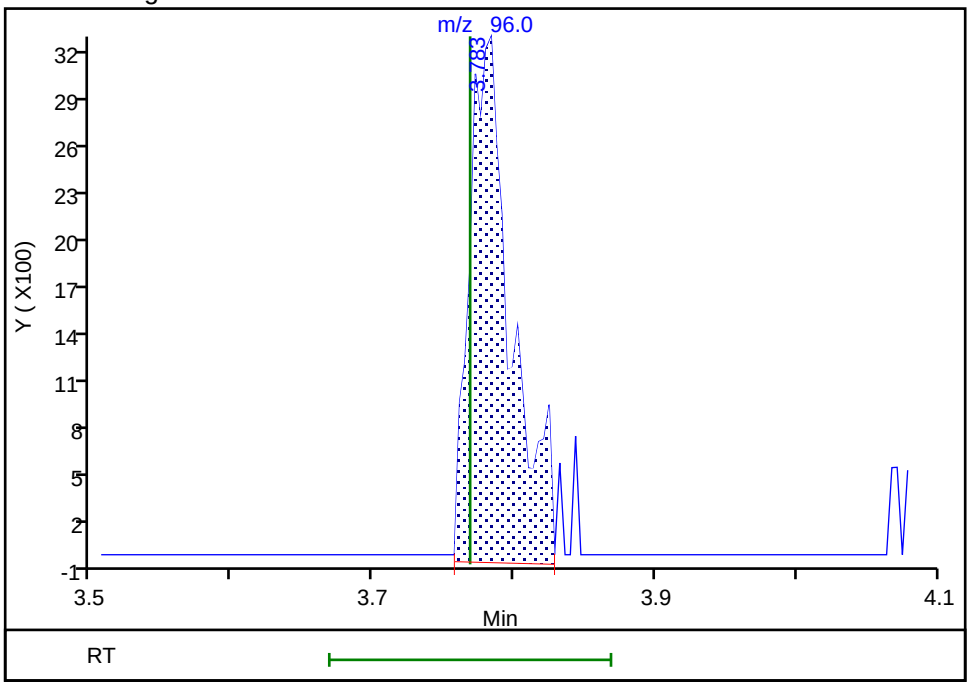
Processing Integration Results

RT: 3.77
Area: 2167
Amount: 0.337503
Amount Units: ug/l



Manual Integration Results

RT: 3.78
Area: 6679
Amount: 0.964892
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:05:00 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Denver

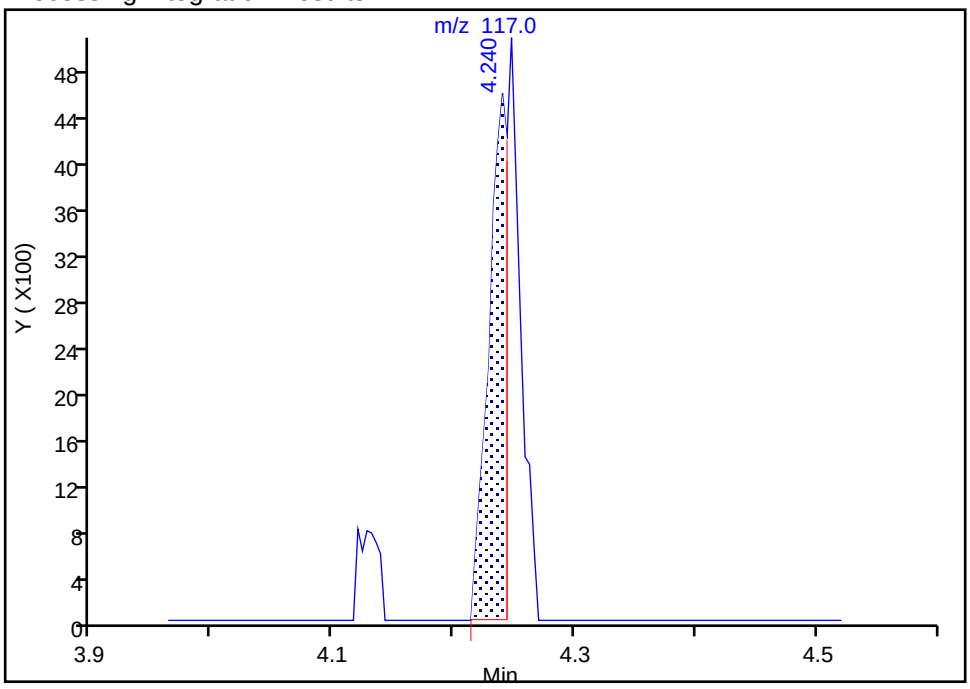
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D
Injection Date: 09-May-2024 00:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 2 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

51 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

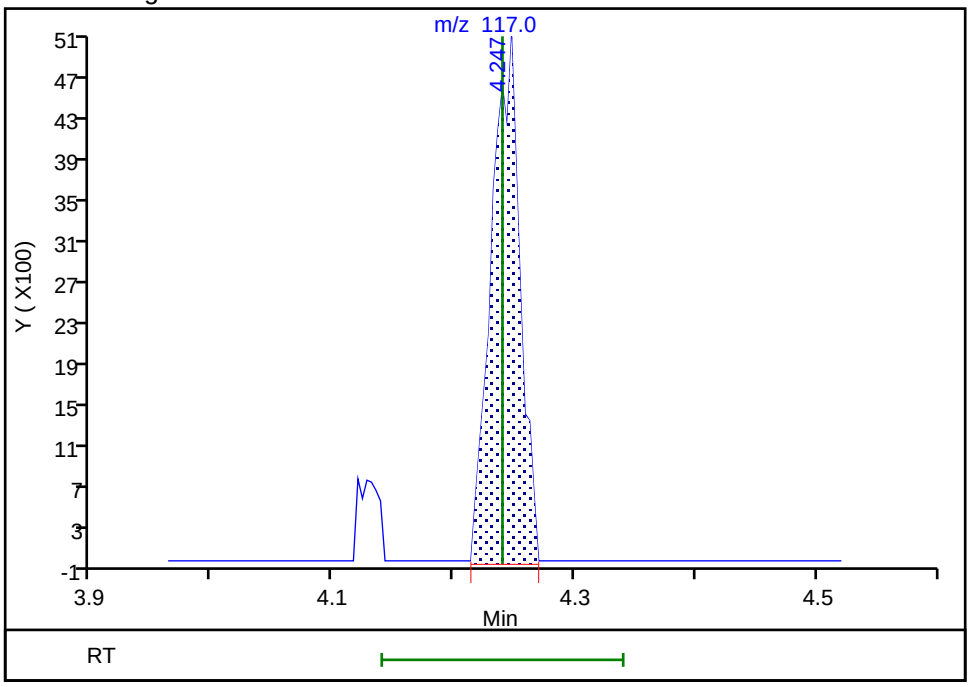
Processing Integration Results

RT: 4.24
Area: 4940
Amount: 0.809437
Amount Units: ug/l



Manual Integration Results

RT: 4.25
Area: 8337
Amount: 0.963366
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:05:42 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

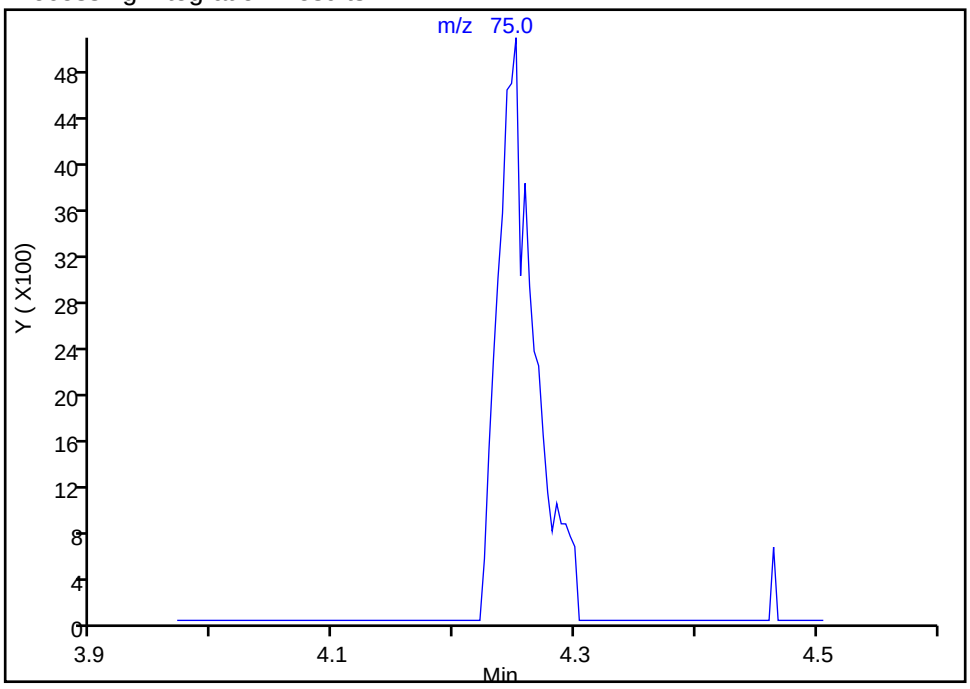
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D
Injection Date: 09-May-2024 00:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 2 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

52 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

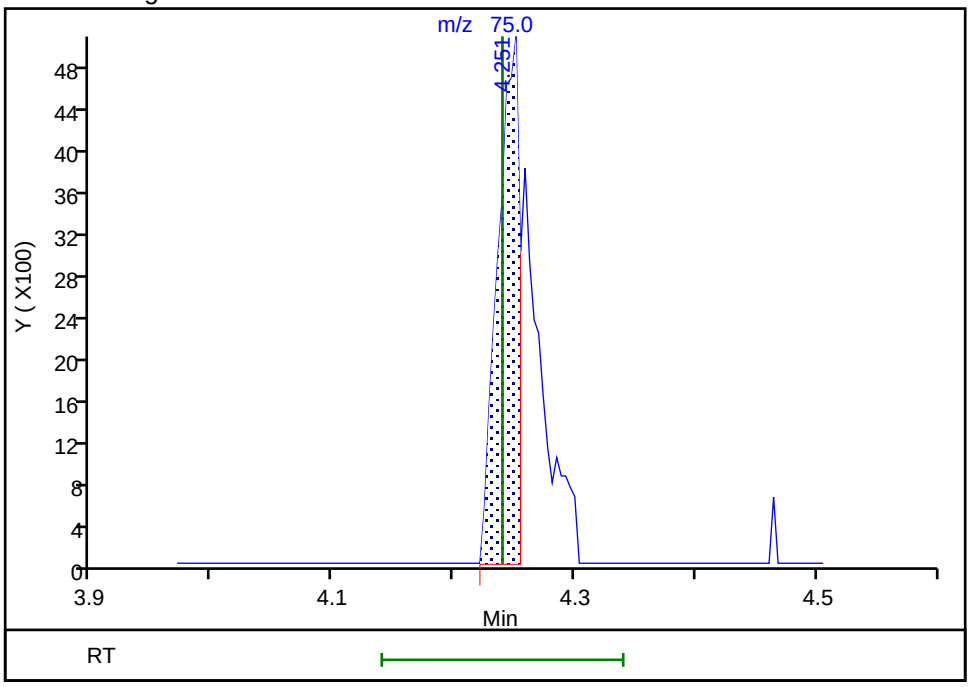
Not Detected
Expected RT: 4.24

Processing Integration Results



Manual Integration Results

RT: 4.25
Area: 6277
Amount: 0.960806
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:05:18 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins Denver

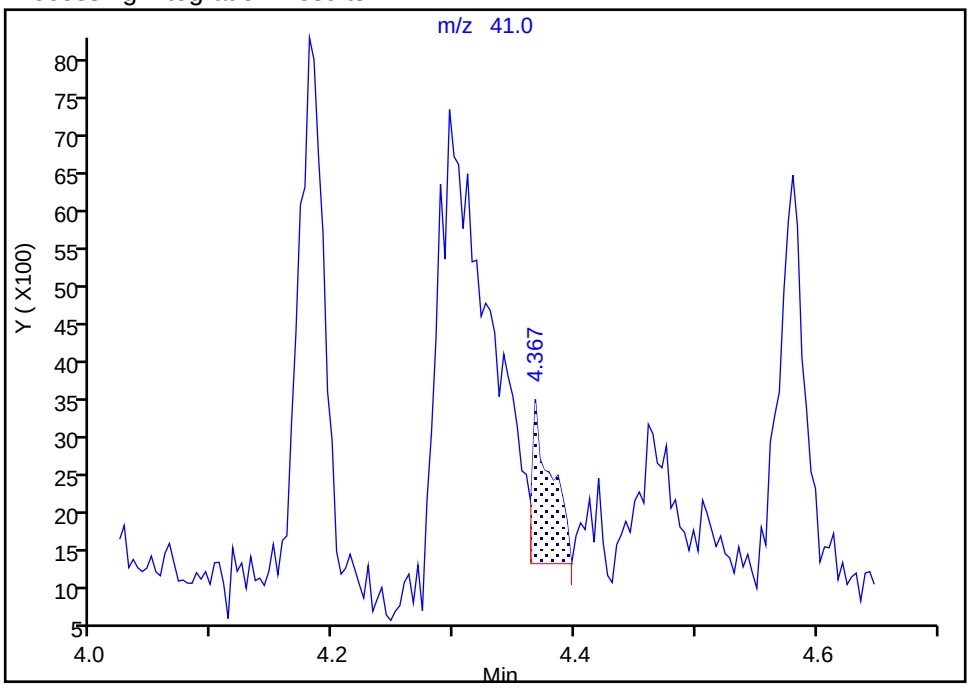
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D				
Injection Date:	09-May-2024 00:19:30	Instrument ID:	VMS_G2		
Lims ID:	STD1				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	2	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

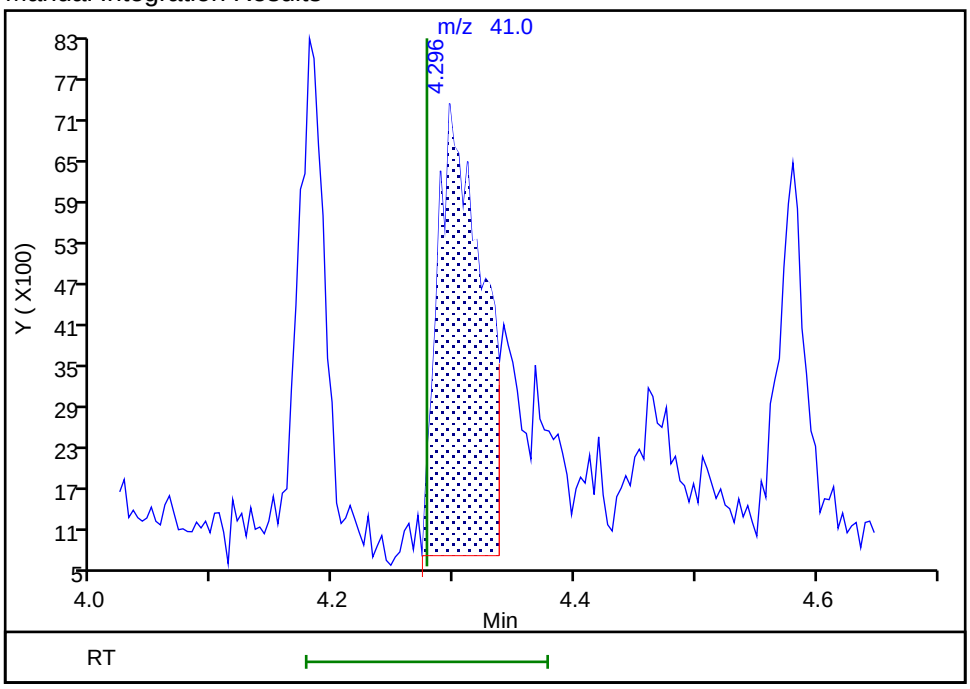
Processing Integration Results

RT: 4.37
Area: 2398
Amount: 3.605206
Amount Units: ug/l



Manual Integration Results

RT: 4.30
Area: 16878
Amount: 22.945022
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:11:35 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

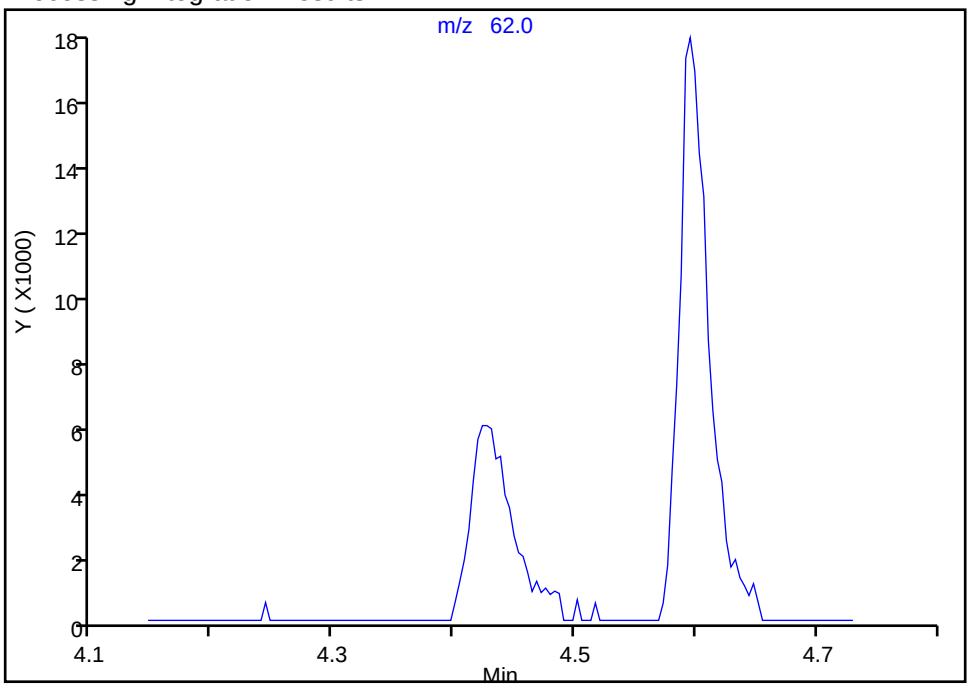
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D
Injection Date: 09-May-2024 00:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 2 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

55 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

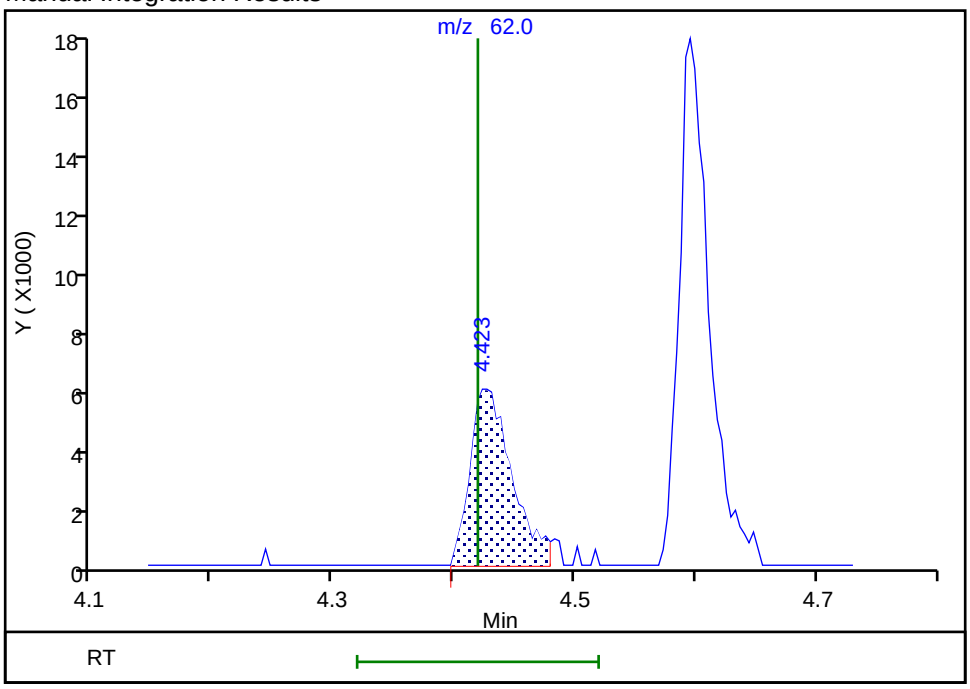
Not Detected
Expected RT: 4.42

Processing Integration Results



Manual Integration Results

RT: 4.42
Area: 13892
Amount: 1.034328
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:11:43 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

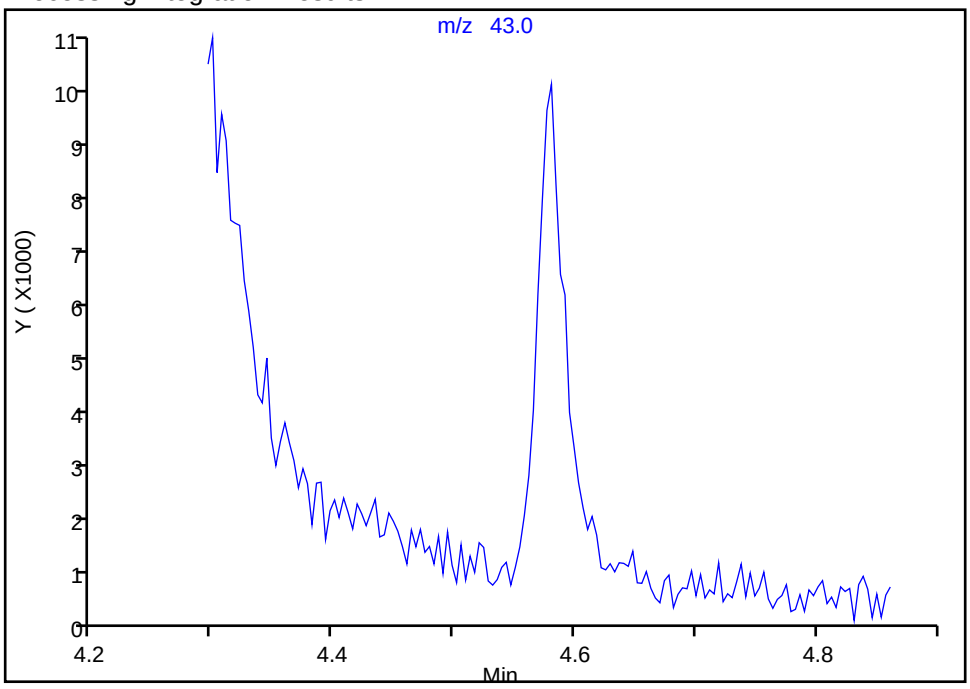
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D				
Injection Date:	09-May-2024 00:19:30	Instrument ID:	VMS_G2		
Lims ID:	STD1				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	2	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

57 n-Heptane, CAS: 142-82-5

Signal: 1

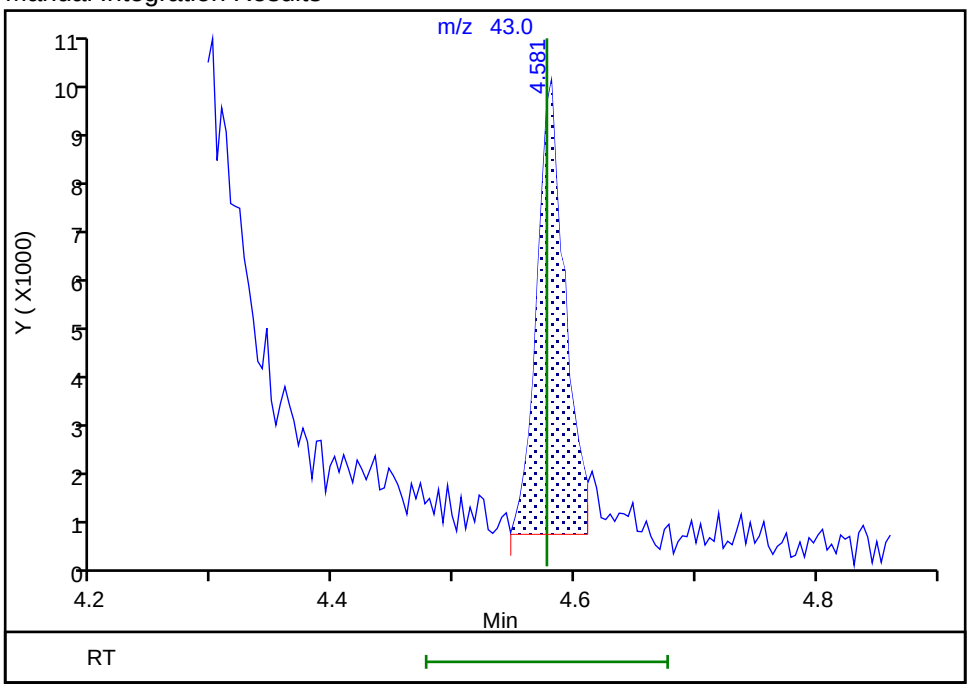
Not Detected
Expected RT: 4.58

Processing Integration Results



Manual Integration Results

RT: 4.58
Area: 14177
Amount: 1.091286
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:11:48 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins Denver

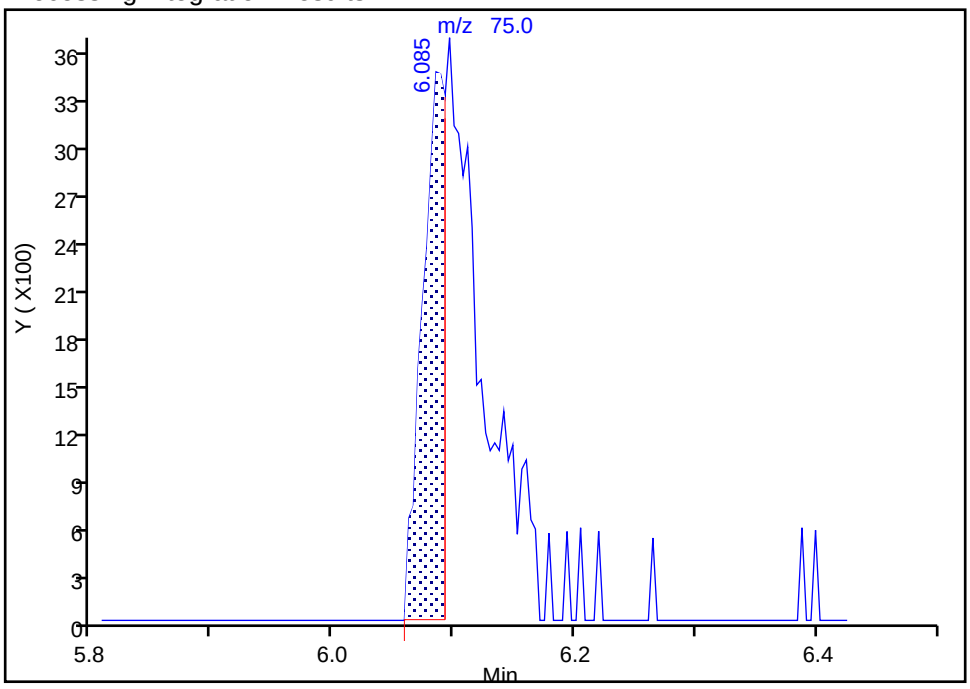
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D
Injection Date: 09-May-2024 00:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 2 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

72 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

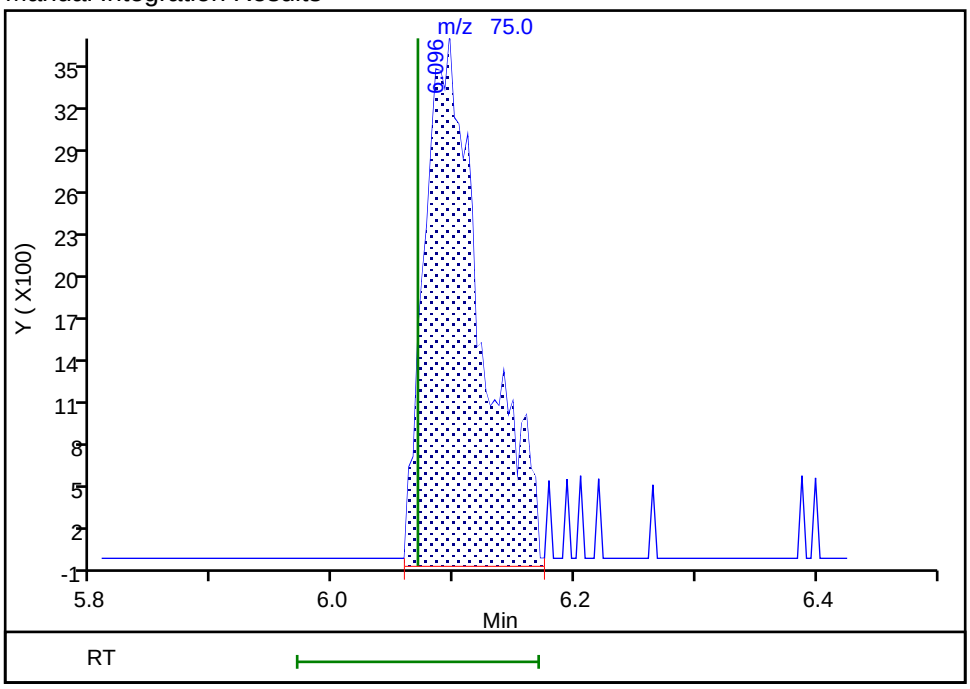
Processing Integration Results

RT: 6.08
Area: 4510
Amount: 0.372659
Amount Units: ug/l



Manual Integration Results

RT: 6.10
Area: 12065
Amount: 0.932261
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:12:18 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Denver

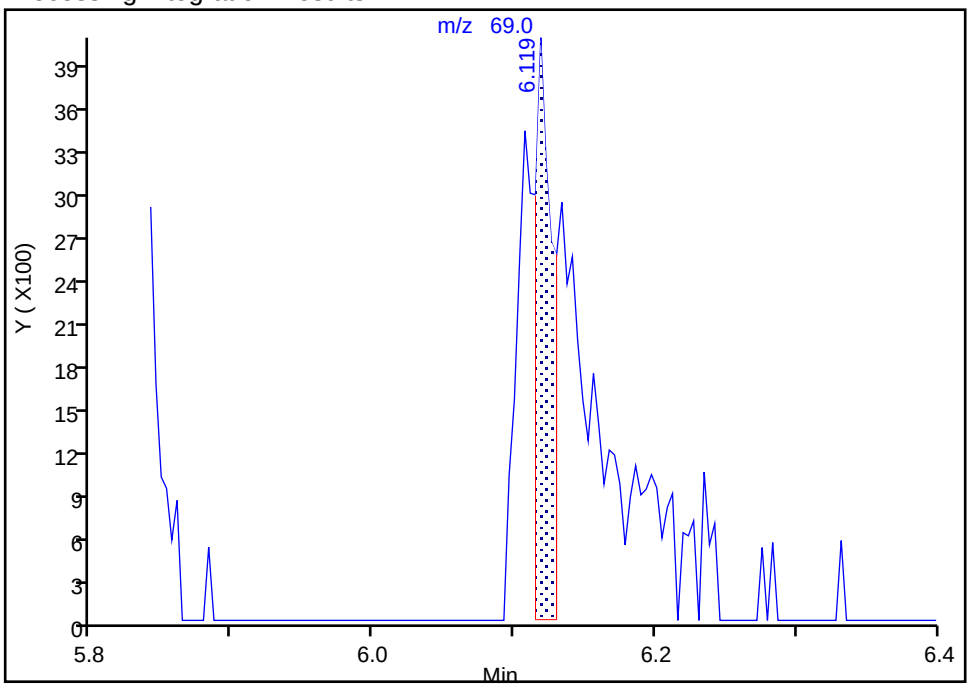
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D
Injection Date: 09-May-2024 00:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 2 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

73 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

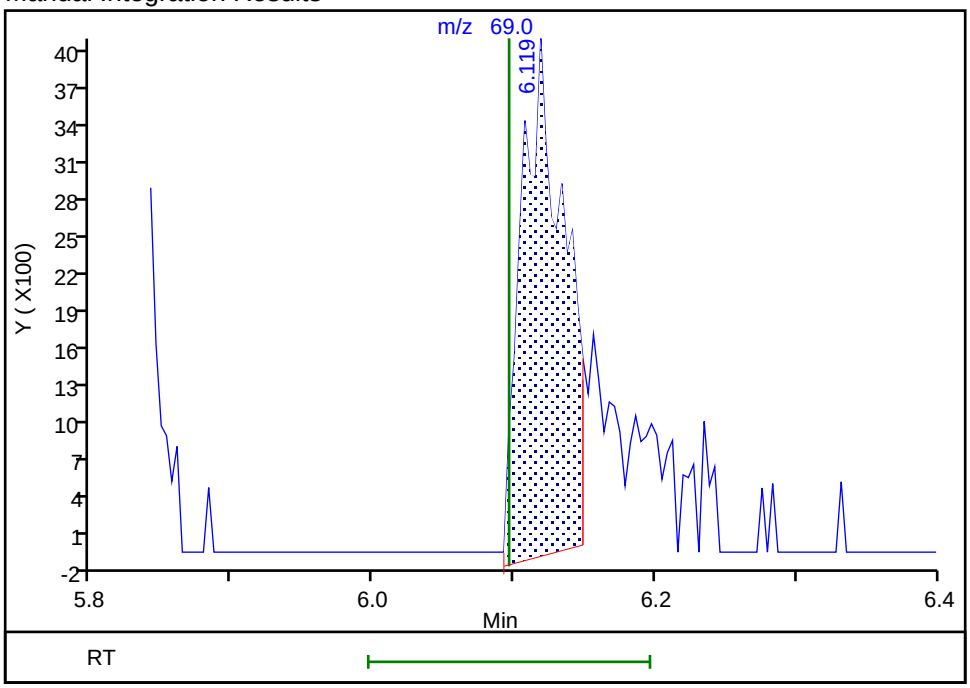
Processing Integration Results

RT: 6.12
Area: 3478
Amount: 0.693246
Amount Units: ug/l



Manual Integration Results

RT: 6.12
Area: 8694
Amount: 1.002969
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:12:30 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

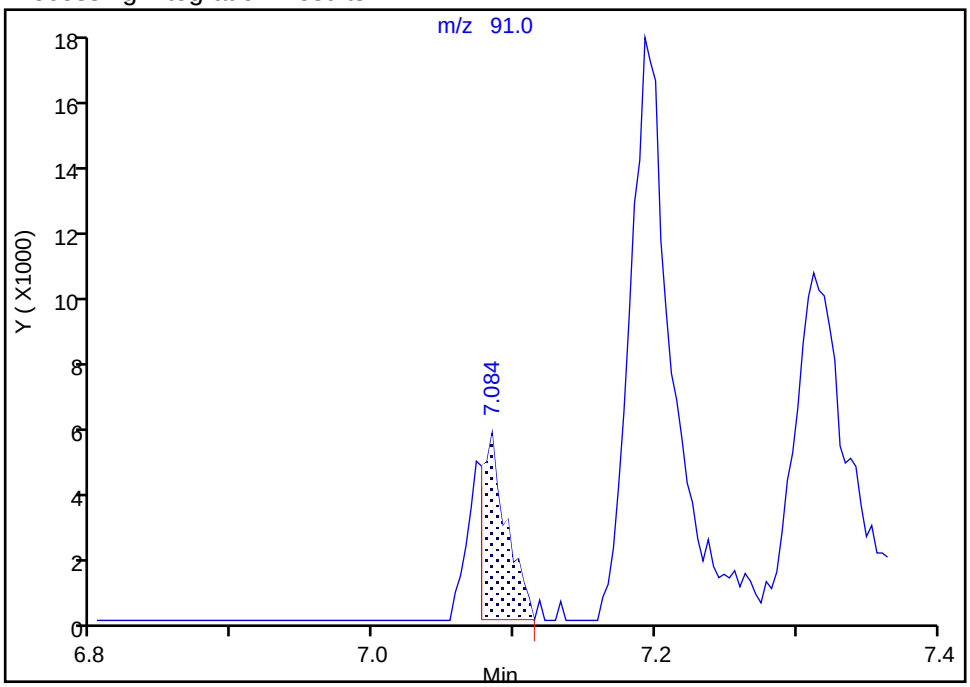
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D
Injection Date: 09-May-2024 00:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 2 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

80 1-Chlorohexane, CAS: 544-10-5

Signal: 1

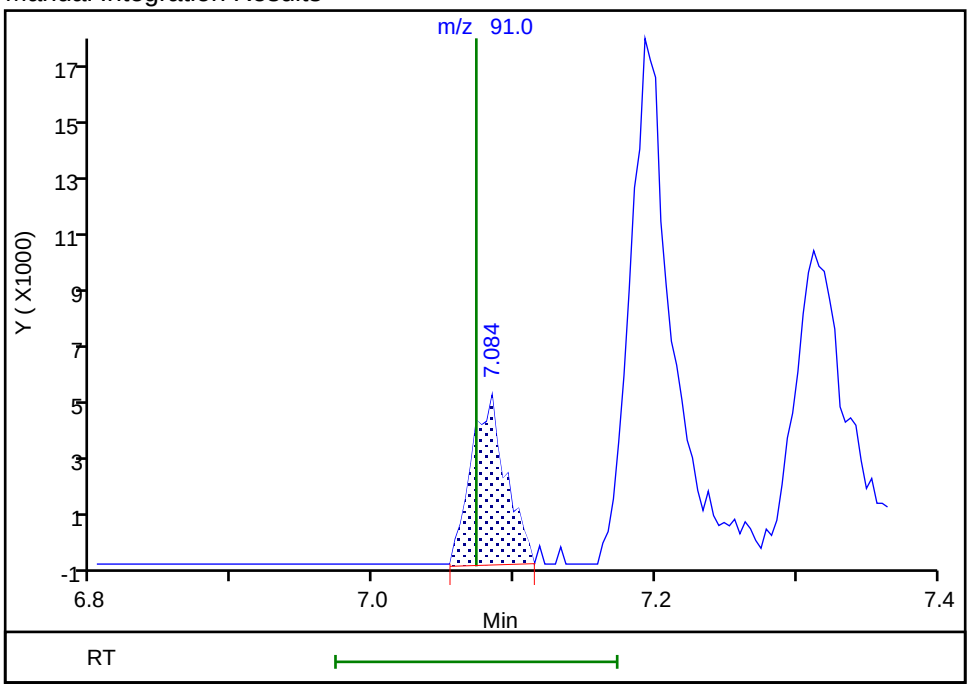
Processing Integration Results

RT: 7.08
Area: 6638
Amount: 0.632627
Amount Units: ug/l



Manual Integration Results

RT: 7.08
Area: 9495
Amount: 0.938232
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:12:55 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Denver

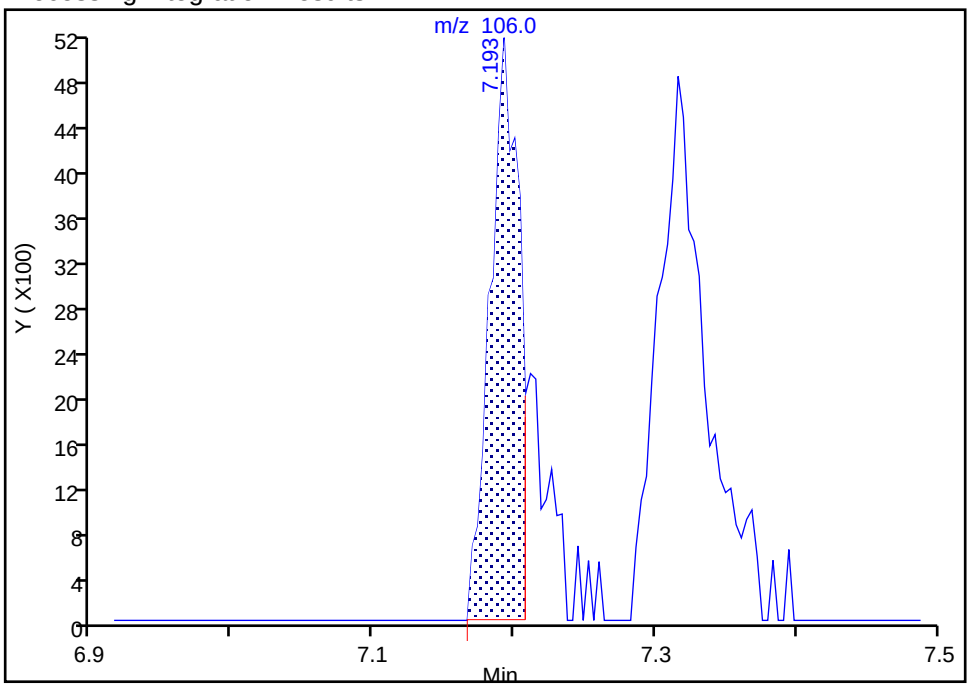
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D				
Injection Date:	09-May-2024 00:19:30	Instrument ID:	VMS_G2		
Lims ID:	STD1				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	2	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

83 Ethylbenzene, CAS: 100-41-4

Signal: 1

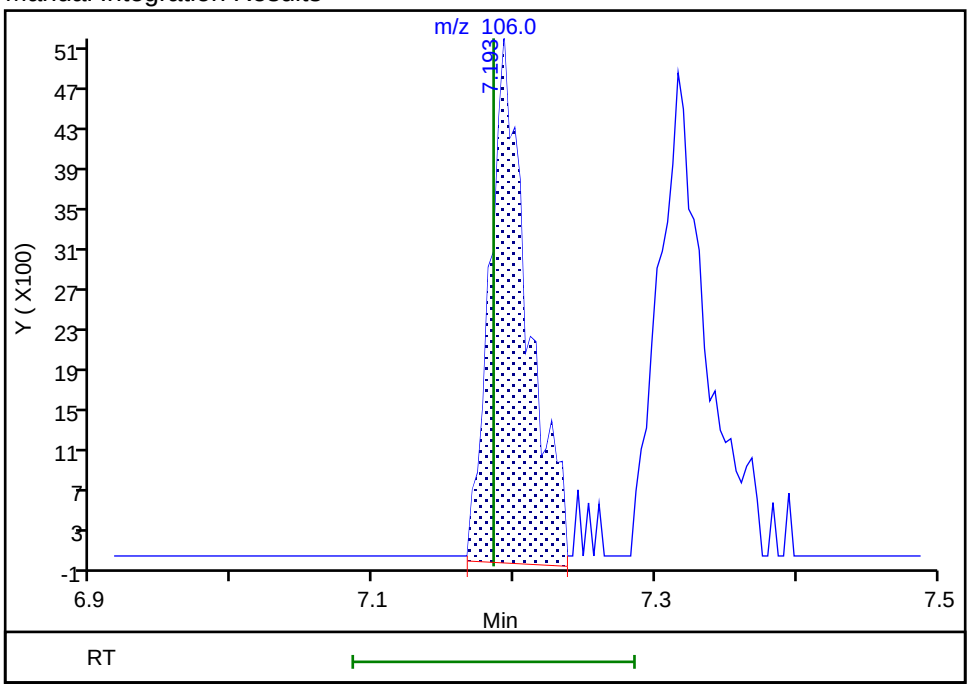
Processing Integration Results

RT: 7.19
Area: 7284
Amount: 0.773247
Amount Units: ug/l



Manual Integration Results

RT: 7.19
Area: 9735
Amount: 1.004400
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:13:09 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

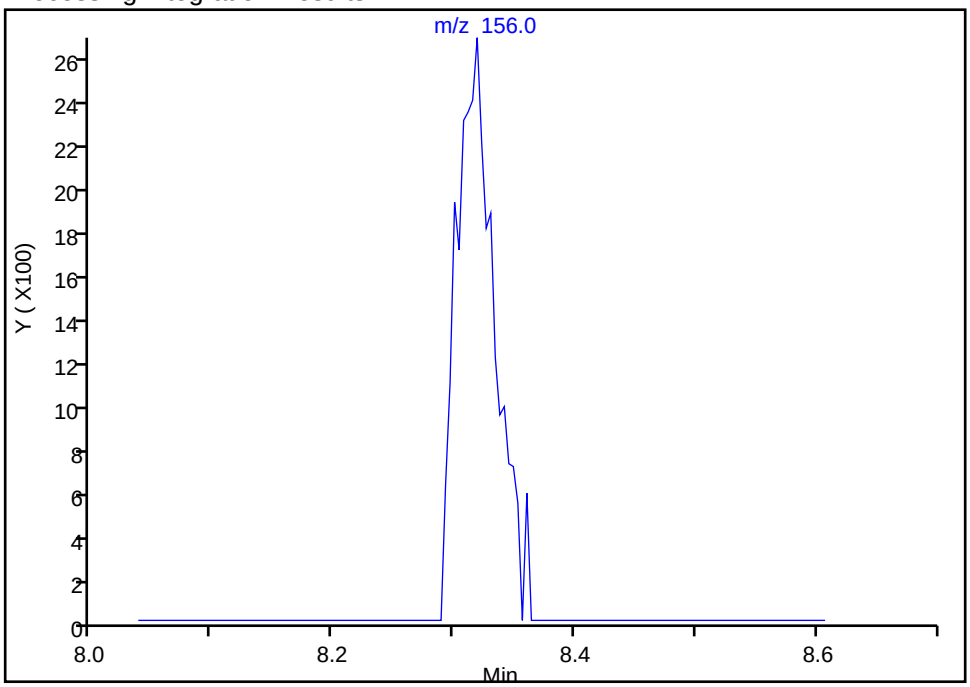
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D				
Injection Date:	09-May-2024 00:19:30	Instrument ID:	VMS_G2		
Lims ID:	STD1				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	2	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

92 Bromobenzene, CAS: 108-86-1

Signal: 1

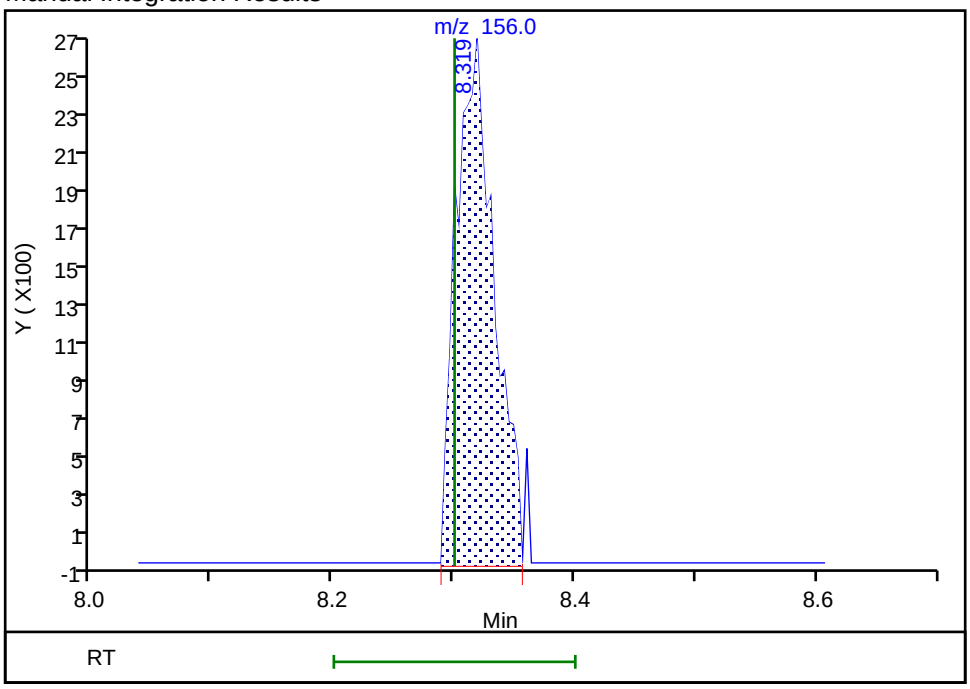
Not Detected
Expected RT: 8.30

Processing Integration Results



Manual Integration Results

RT: 8.32
Area: 5907
Amount: 0.983560
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:13:34 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Missed Peak

Eurofins Denver

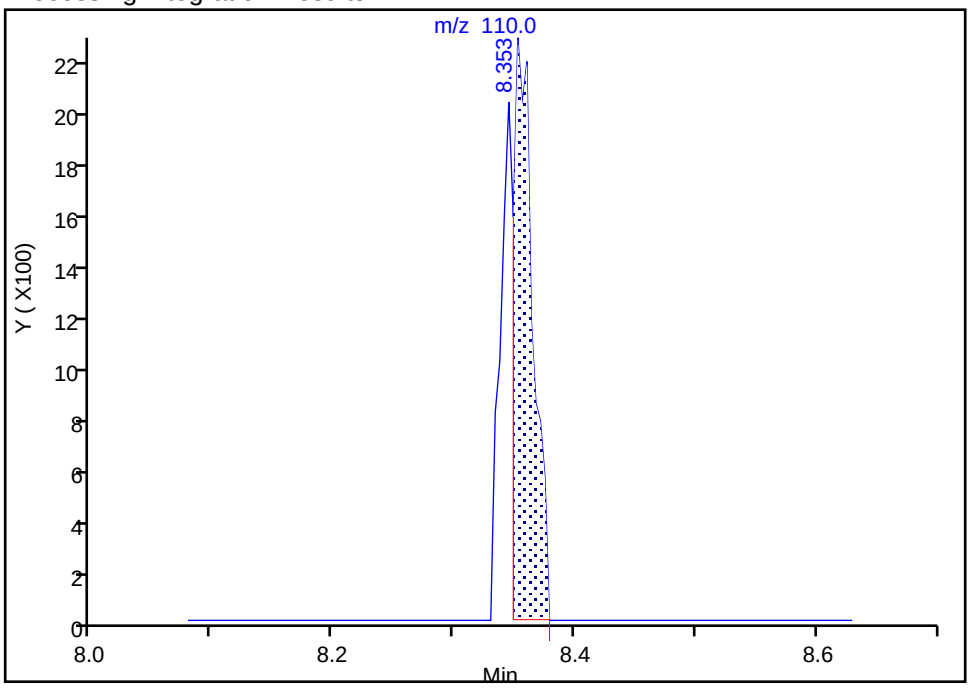
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D
Injection Date: 09-May-2024 00:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 2 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

94 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

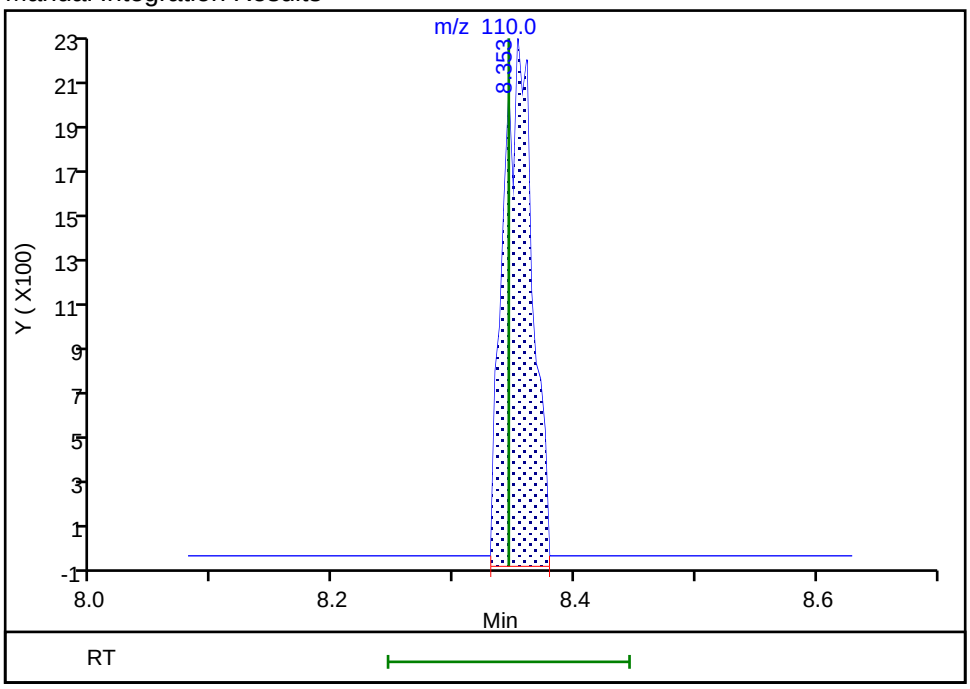
Processing Integration Results

RT: 8.35
Area: 2532
Amount: 0.680178
Amount Units: ug/l



Manual Integration Results

RT: 8.35
Area: 3865
Amount: 1.026249
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:14:34 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Denver

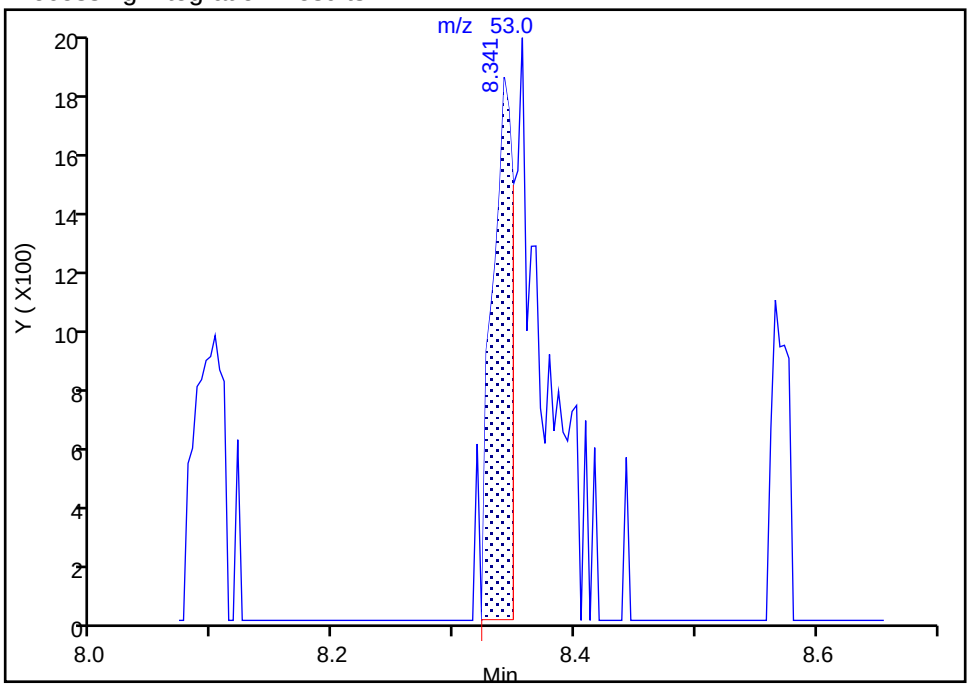
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11764.D
Injection Date: 09-May-2024 00:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 2 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

93 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

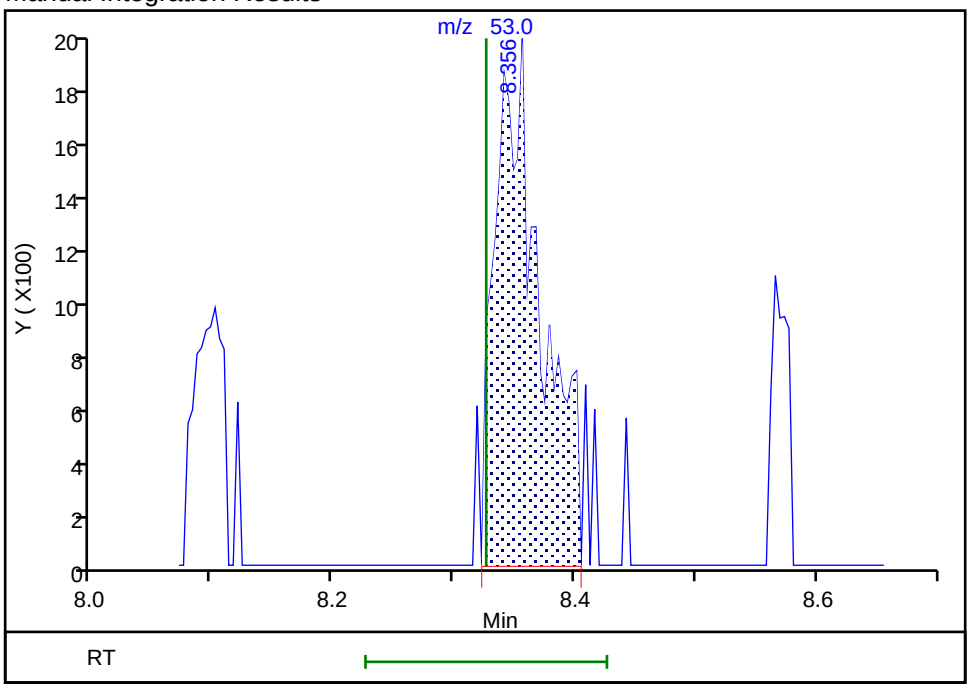
Processing Integration Results

RT: 8.34
Area: 2116
Amount: 0.637874
Amount Units: ug/l



Manual Integration Results

RT: 8.36
Area: 5027
Amount: 0.978287
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:13:54 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11765.D
Lims ID: STD2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 09-May-2024 00:40:30 ALS Bottle#: 3 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD2
Operator ID: COULTER/CF Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub62

Method: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 09-May-2024 12:48:03 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: Q2ZS Date: 09-May-2024 11:01:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.595	4.595	0.000	96	1595053	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.077	7.077	0.000	94	330639	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.281	9.281	0.000	96	464125	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.113	4.113	0.000	91	350794	50.0	49.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.363	4.363	0.000	97	555661	50.0	48.9	
$ 6 Toluene-d8 (Surr)	98	5.827	5.827	0.000	96	1477186	50.0	48.0	
$ 7 4-Bromofluorobenzene (Surr)	95	8.169	8.166	0.003	79	557958	50.0	52.1	
9 Dichlorodifluoromethane	85	1.426	1.426	0.000	98	12849	2.00	2.09	
10 Chloromethane	50	1.624	1.628	-0.004	98	19670	2.00	2.13	
11 Vinyl chloride	62	1.669	1.665	0.004	95	16830	2.00	2.30	
12 Bromomethane	94	1.912	1.912	0.000	5	5004	2.00	2.14	
13 Chloroethane	64	1.995	1.991	0.004	96	10479	2.00	2.29	M
14 Dichlorofluoromethane	67	2.148	2.152	-0.004	94	21011	2.00	1.67	
15 Trichlorofluoromethane	101	2.174	2.178	-0.004	98	21438	2.00	2.24	
18 Ethyl ether	59	2.376	2.373	0.003	97	15990	2.00	1.95	
19 Acrolein	56	2.500	2.477	0.023	99	43355	19.8	20.9	M
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.548	2.541	0.007	70	9047	2.00	2.21	M
21 1,1-Dichloroethene	96	2.548	2.545	0.003	92	12317	2.00	2.05	
22 Acetone	43	2.586	2.575	0.011	98	74840	8.00	9.37	
23 Iodomethane	142	2.657	2.657	0.000	22	14018	2.00	1.80	M
25 Carbon disulfide	76	2.713	2.713	0.000	99	35498	2.00	1.92	
26 Methyl acetate	43	2.799	2.784	0.015	79	47835	4.00	3.86	M
16 3-Chloro-1-propene	41	2.803	2.795	0.008	88	36553	2.00	2.39	
28 Methylene Chloride	84	2.897	2.889	0.007	92	19028	2.00	2.20	M
29 2-Methyl-2-propanol	59	2.949	2.941	0.008	98	77408	20.0	18.6	
30 Acrylonitrile	53	3.065	3.042	0.023	95	113017	20.0	19.0	M
31 Methyl tert-butyl ether	73	3.061	3.057	0.004	99	60713	2.00	2.08	
32 trans-1,2-Dichloroethene	96	3.080	3.072	0.008	91	13424	2.00	2.15	
33 Hexane	57	3.260	3.256	0.004	97	28225	2.00	2.31	
35 Vinyl acetate	43	3.390	3.364	0.026	56	90777	4.00	4.43	M
34 1,1-Dichloroethane	63	3.379	3.372	0.007	97	31487	2.00	1.95	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Butanone (MEK)	43	3.772	3.750	0.022	96	71883	8.00	7.81	
40 cis-1,2-Dichloroethene	96	3.780	3.768	0.012	82	13901	2.00	1.97	
41 2,2-Dichloropropane	77	3.772	3.772	0.000	76	26860	2.00	2.32	
44 sec-Butyl Alcohol	45	3.884	3.869	0.015	99	105730	48.0	43.4	
46 Chlorobromomethane	128	3.948	3.941	0.007	62	3760	2.00	1.92	
47 Tetrahydrofuran	42	3.959	3.948	0.011	94	28276	4.00	3.12	
48 Chloroform	83	4.004	3.997	0.007	95	27766	2.00	1.98	
49 1,1,1-Trichloroethane	97	4.124	4.128	-0.004	97	24035	2.00	2.09	
50 Cyclohexane	56	4.180	4.180	0.000	96	37421	2.00	2.14	
52 1,1-Dichloropropene	75	4.247	4.240	0.007	83	20987	2.00	2.26	
51 Carbon tetrachloride	117	4.240	4.240	0.000	92	18080	2.00	2.05	
53 Isobutyl alcohol	41	4.289	4.277	0.012	94	41261	50.0	40.4	a
54 Benzene	78	4.390	4.386	0.004	94	66719	2.00	2.04	
55 1,2-Dichloroethane	62	4.423	4.420	0.003	53	23349	2.00	1.70	
57 n-Heptane	43	4.577	4.577	0.000	95	29404	2.00	2.22	
59 Trichloroethene	95	4.869	4.865	0.004	91	15695	2.00	2.05	
60 2-Pentanone	43	4.992	4.977	0.015	97	100048	6.40	6.41	
61 Methylcyclohexane	55	5.052	5.045	0.007	95	27929	2.00	2.09	
62 1,2-Dichloropropane	63	5.071	5.063	0.008	94	20368	2.00	2.05	
64 1,4-Dioxane	88	5.149	5.127	0.022	4	4910	40.0	38.8	M
65 Dibromomethane	93	5.138	5.138	0.000	90	9086	2.00	1.85	
66 Dichlorobromomethane	83	5.265	5.262	0.003	95	21478	2.00	1.98	
68 2-Chloroethyl vinyl ether	63	5.494	5.471	0.023	85	8389	2.00	2.10	
69 cis-1,3-Dichloropropene	75	5.617	5.610	0.007	87	26066	2.00	1.95	
70 4-Methyl-2-pentanone (MIBK)	43	5.714	5.711	0.003	99	178284	8.00	7.62	
71 Toluene	91	5.887	5.883	0.004	98	64253	2.00	1.99	
72 trans-1,3-Dichloropropene	75	6.085	6.070	0.015	96	23399	2.00	1.77	
73 Ethyl methacrylate	69	6.107	6.096	0.011	91	25446	2.00	1.99	
74 1,1,2-Trichloroethane	97	6.242	6.235	0.007	93	14679	2.00	2.01	
75 Tetrachloroethene	164	6.321	6.317	0.004	89	9571	2.00	2.21	
76 1,3-Dichloropropane	76	6.384	6.377	0.007	98	29079	2.00	2.07	
77 2-Hexanone	43	6.422	6.407	0.015	100	134224	8.00	8.27	
78 Chlorodibromomethane	129	6.568	6.564	0.004	88	13655	2.00	1.92	
79 Ethylene Dibromide	107	6.684	6.676	0.008	96	13886	2.00	1.90	
80 1-Chlorohexane	91	7.080	7.073	0.007	36	17854	1.60	1.71	
81 Chlorobenzene	112	7.110	7.103	0.007	93	38020	2.00	2.03	
82 1,1,1,2-Tetrachloroethane	131	7.181	7.178	0.003	88	13095	2.00	1.97	
83 Ethylbenzene	106	7.193	7.185	0.008	99	20673	2.00	2.07	
84 m-Xylene & p-Xylene	106	7.316	7.305	0.011	97	24122	2.00	1.97	
85 o-Xylene	106	7.660	7.657	0.003	98	24715	2.00	2.01	
86 Styrene	104	7.683	7.675	0.008	92	34990	2.00	1.74	
87 Bromoform	173	7.847	7.847	0.000	90	9068	2.00	1.82	
88 Isopropylbenzene	105	8.001	7.993	0.008	97	69290	2.00	2.20	
89 Cyclohexanone	55	8.094	8.087	0.007	99	81908	60.0	58.4	
91 1,1,2,2-Tetrachloroethane	83	8.293	8.289	0.004	95	26310	2.00	2.16	
92 Bromobenzene	156	8.312	8.300	0.012	95	11668	2.00	1.87	
93 trans-1,4-Dichloro-2-butene	53	8.334	8.326	0.008	64	9427	2.00	1.77	
94 1,2,3-Trichloropropane	110	8.349	8.345	0.004	86	7847	2.00	2.01	
95 N-Propylbenzene	120	8.394	8.390	0.004	99	15105	2.00	2.01	
96 2-Chlorotoluene	126	8.484	8.480	0.004	93	12446	2.00	2.04	
97 1,3,5-Trimethylbenzene	105	8.573	8.562	0.011	93	52826	2.00	2.13	
98 4-Chlorotoluene	126	8.607	8.596	0.011	98	12603	2.00	2.03	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 tert-Butylbenzene	119	8.865	8.865	0.000	94	44754	2.00	2.13	
100 1,2,4-Trimethylbenzene	105	8.933	8.925	0.008	98	51103	2.00	2.06	
101 sec-Butylbenzene	134	9.082	9.082	0.000	97	11612	2.00	2.16	
102 1,3-Dichlorobenzene	146	9.213	9.206	0.007	92	24215	2.00	2.03	
103 4-Isopropyltoluene	119	9.240	9.236	0.004	97	53073	2.00	2.14	
104 1,4-Dichlorobenzene	146	9.303	9.303	0.000	92	25574	2.00	2.10	
106 n-Butylbenzene	91	9.644	9.633	0.012	99	48411	2.00	2.11	
107 1,2-Dichlorobenzene	146	9.659	9.651	0.008	92	22251	2.00	1.92	
108 1,2-Dibromo-3-Chloropropane	157	10.433	10.426	0.007	74	6346	2.00	2.01	
110 1,2,4-Trichlorobenzene	180	11.245	11.242	0.003	90	11735	2.00	1.82	
111 Hexachlorobutadiene	225	11.384	11.384	0.000	91	7245	2.00	2.41	
112 Naphthalene	128	11.515	11.500	0.015	98	46178	2.00	1.96	
113 1,2,3-Trichlorobenzene	180	11.736	11.721	0.015	88	12643	2.00	2.00	
S 115 1,2-Dichloroethene, Total	1				0		4.00	4.11	
S 116 1,3-Dichloropropene, Total	1				0		4.00	3.72	
S 117 Xylenes, Total	106				0		4.00	3.97	
S 118 Total BTEX	1				0			10.1	
S 119 Trihalomethanes, Total	1				0		8.00	7.70	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

Cal Dil B_00001	Amount Added: 20.00	Units: uL	
mv-IS_SS_00079	Amount Added: 5.00	Units: uL	Run Reagent

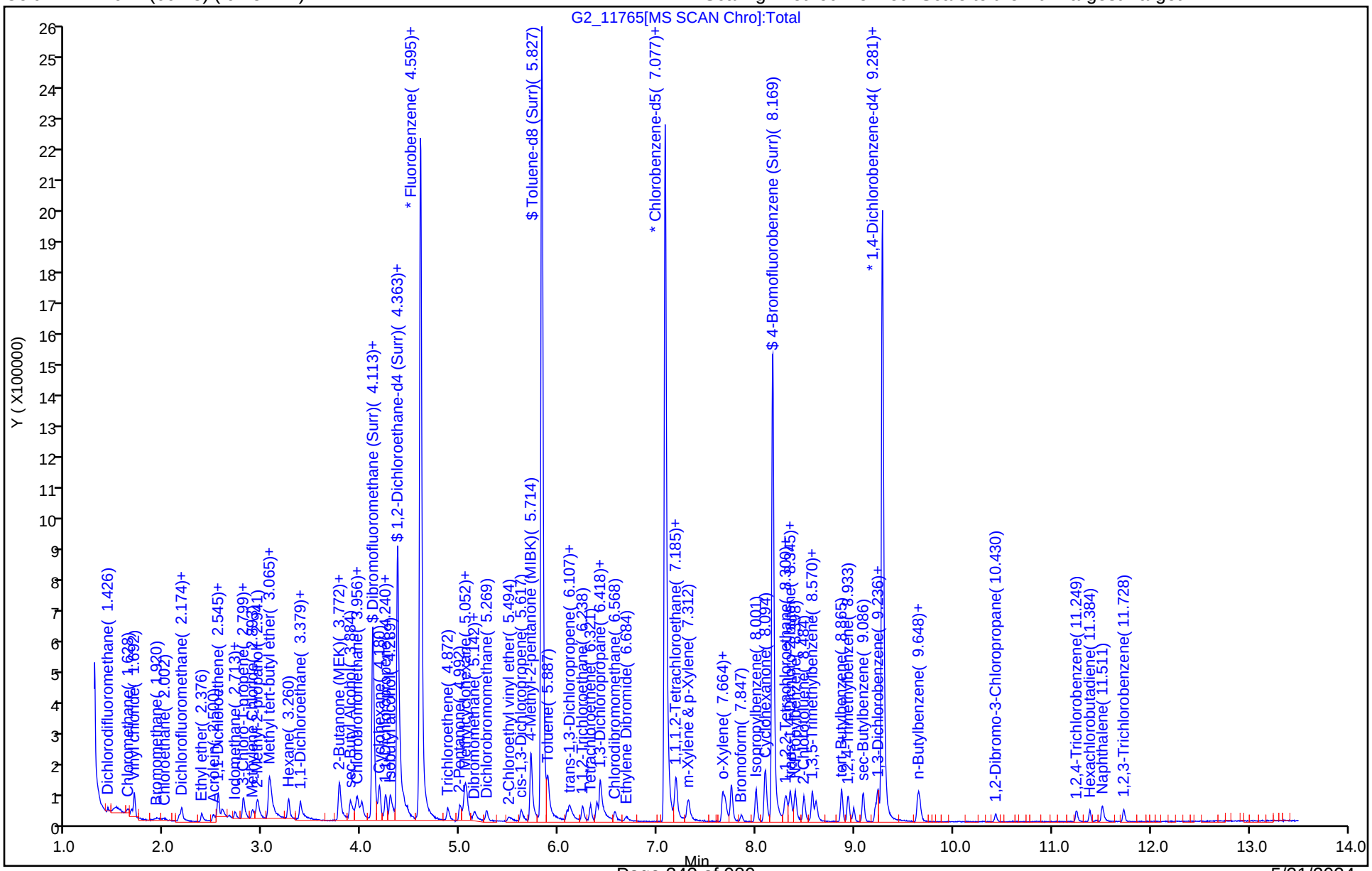
Report Date: 09-May-2024 12:48:04 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11765.D

Injection Date:	09-May-2024 00:40:30	Instrument ID:	VMS_G2	Operator ID:	COULTER/CF
Lims ID:	STD2			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver

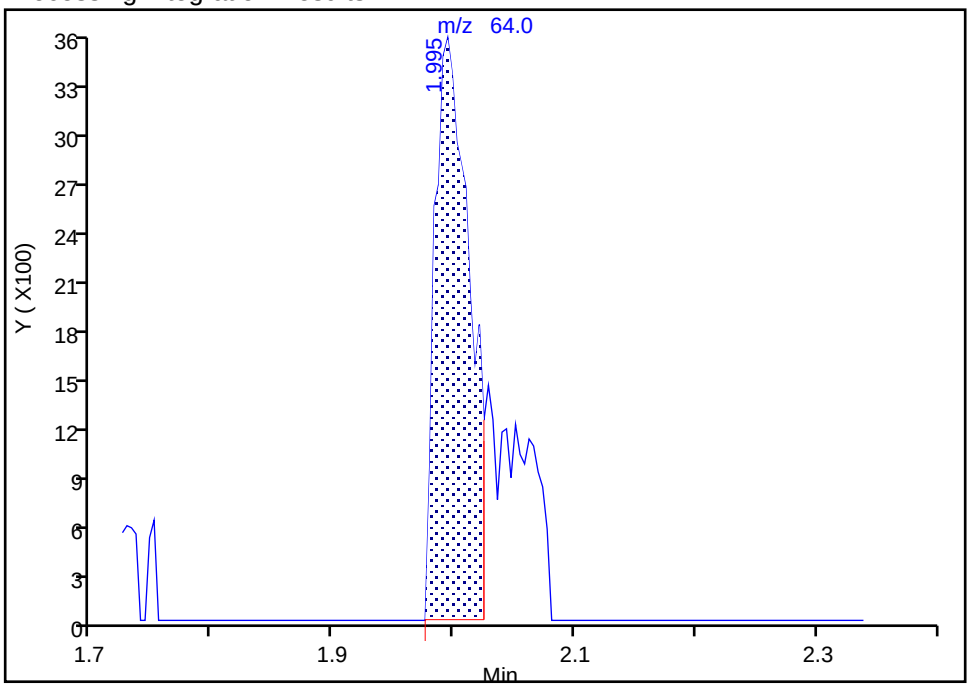
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11765.D
Injection Date: 09-May-2024 00:40:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 3 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

13 Chloroethane, CAS: 75-00-3

Signal: 1

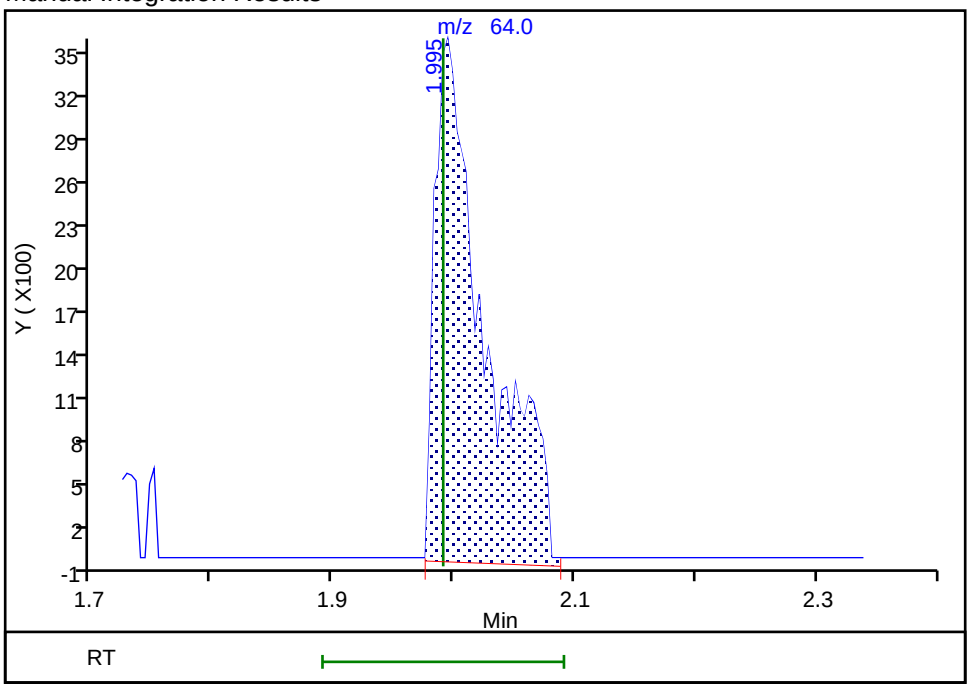
Processing Integration Results

RT: 1.99
Area: 7041
Amount: 1.065953
Amount Units: ug/l



Manual Integration Results

RT: 1.99
Area: 10479
Amount: 2.287865
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:42:21 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

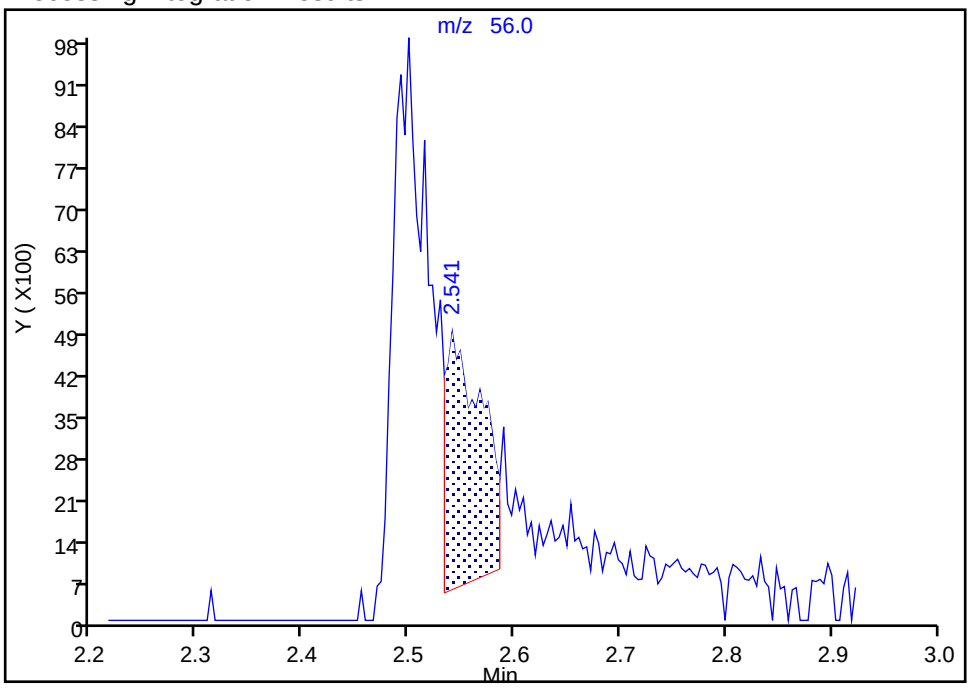
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11765.D
Injection Date: 09-May-2024 00:40:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 3 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

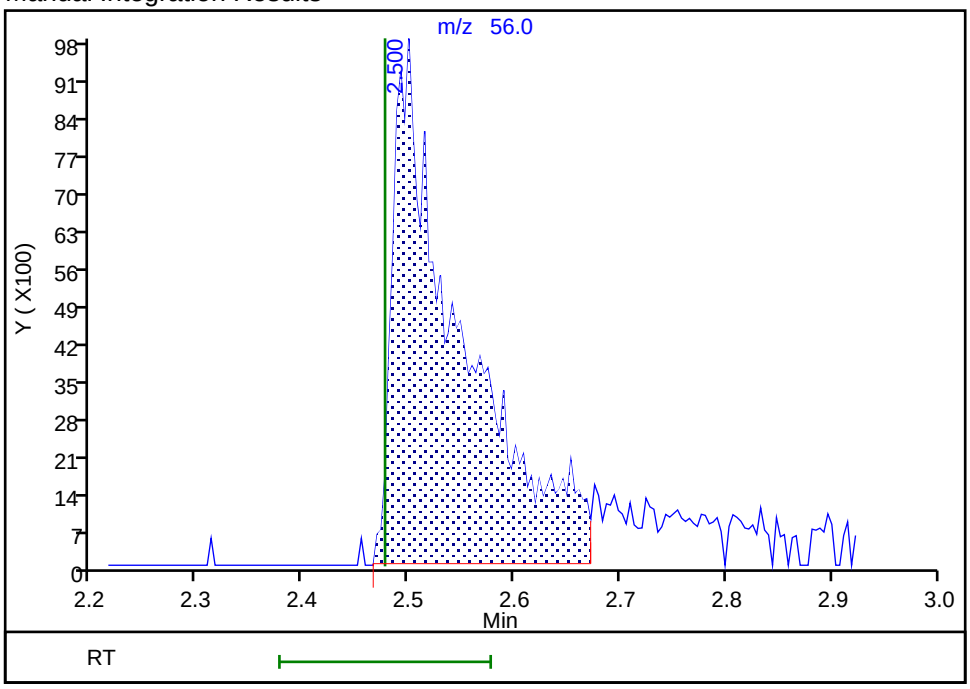
Processing Integration Results

RT: 2.54
Area: 10485
Amount: 6.164287
Amount Units: ug/l



Manual Integration Results

RT: 2.50
Area: 43355
Amount: 20.902601
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 10:59:39 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

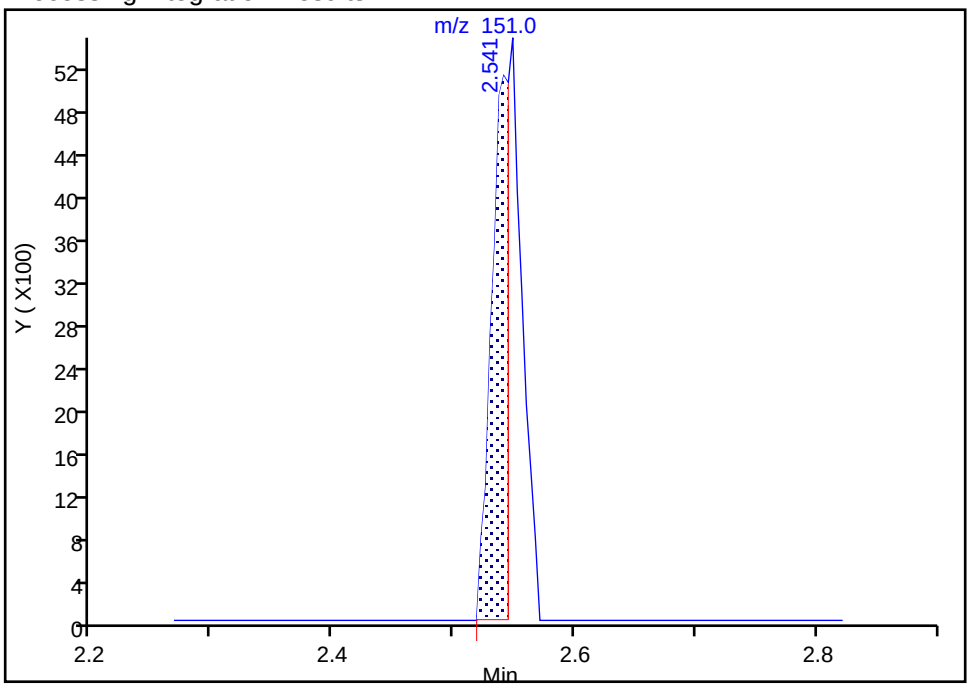
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11765.D
Injection Date: 09-May-2024 00:40:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 3 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

20 1,1,2-Trichloro-1,2,2-trifluoroe, CAS: 76-13-1

Signal: 1

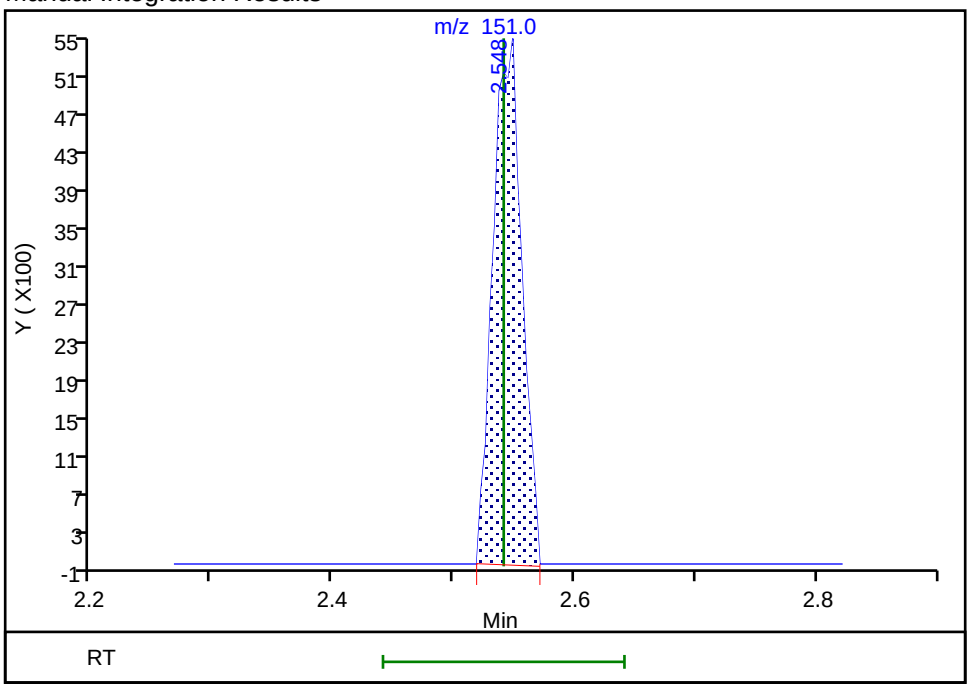
Processing Integration Results

RT: 2.54
Area: 5243
Amount: 1.525511
Amount Units: ug/l



Manual Integration Results

RT: 2.55
Area: 9047
Amount: 2.207460
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:00:03 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

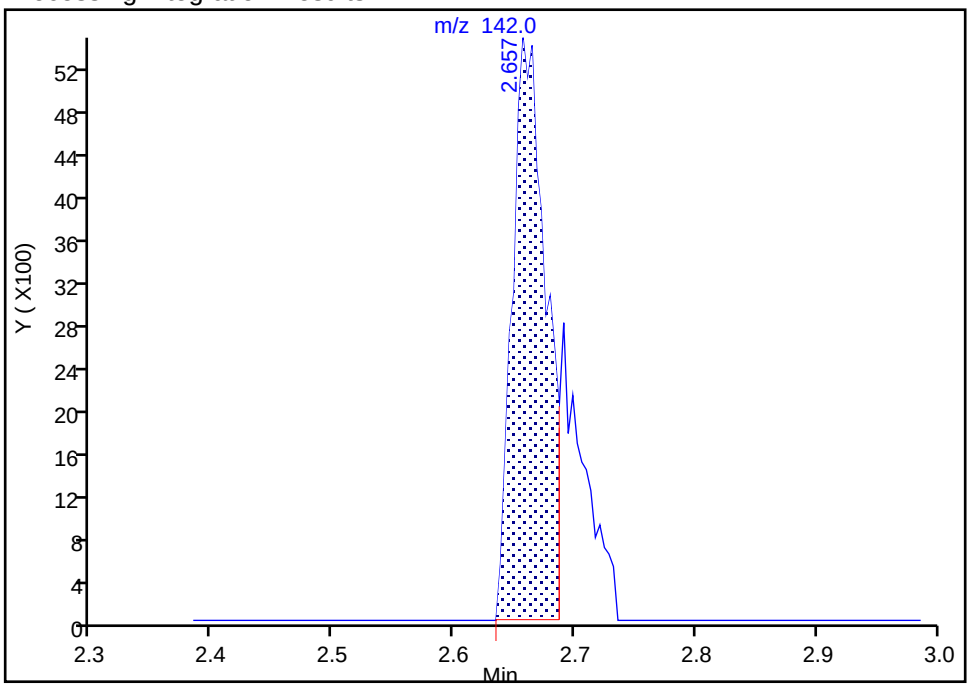
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11765.D
Injection Date: 09-May-2024 00:40:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 3 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

23 Iodomethane, CAS: 74-88-4

Signal: 1

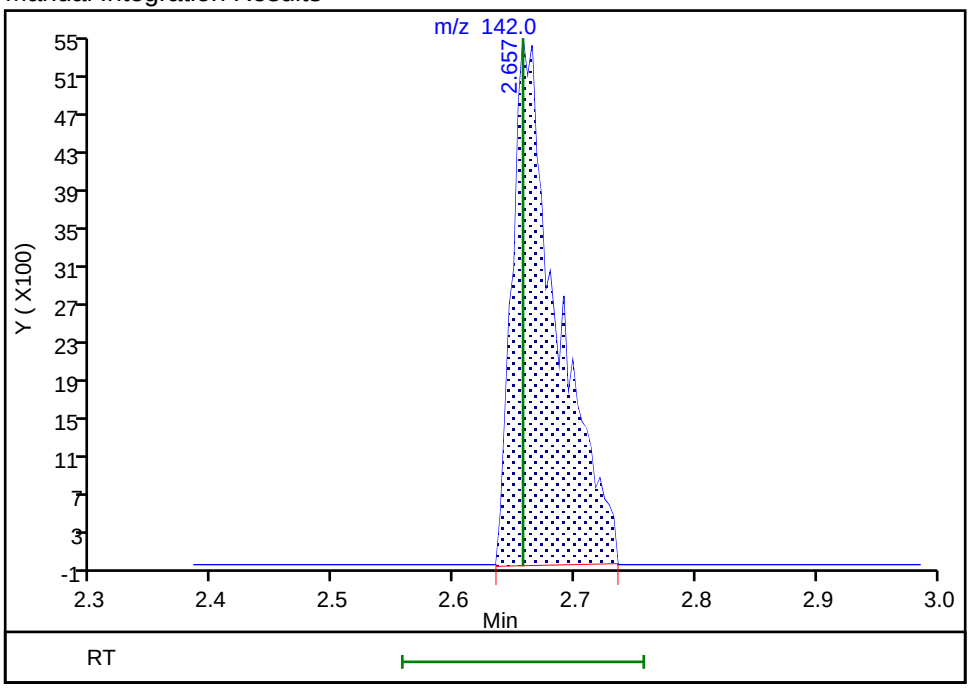
Processing Integration Results

RT: 2.66
Area: 10457
Amount: 1.892321
Amount Units: ug/l



Manual Integration Results

RT: 2.66
Area: 14018
Amount: 1.802609
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:51:50 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Denver

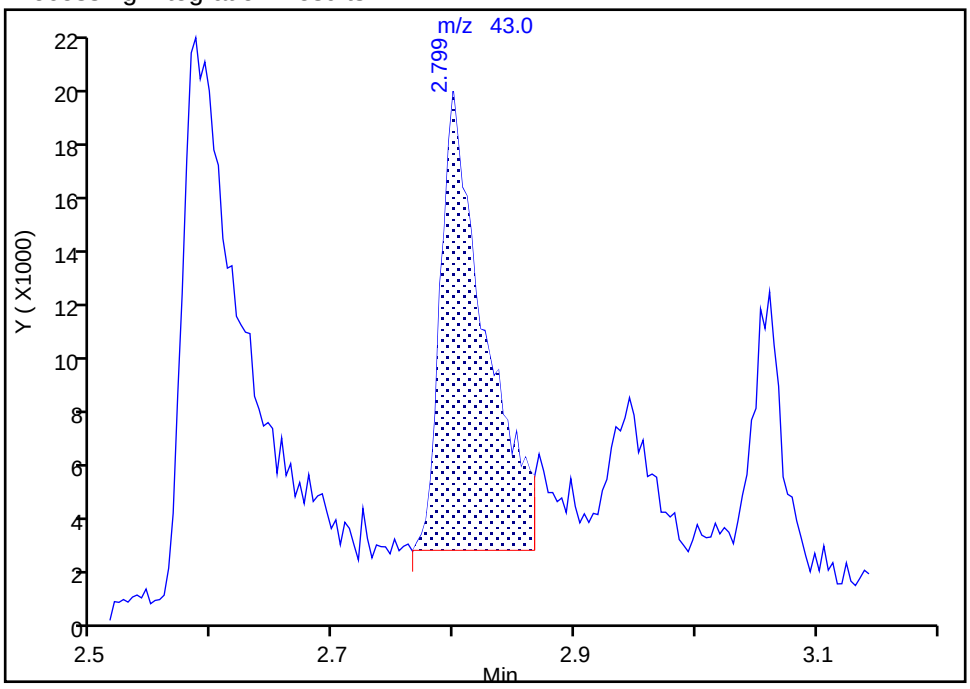
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11765.D
Injection Date: 09-May-2024 00:40:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 3 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

26 Methyl acetate, CAS: 79-20-9

Signal: 1

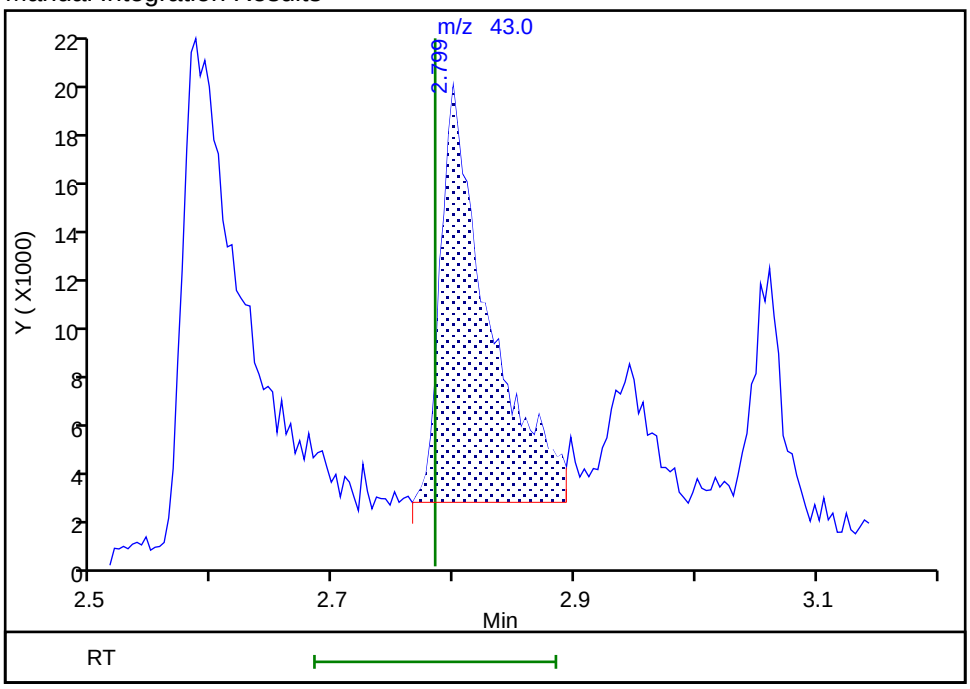
Processing Integration Results

RT: 2.80
Area: 44127
Amount: 3.674300
Amount Units: ug/l



Manual Integration Results

RT: 2.80
Area: 47835
Amount: 3.858680
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 12:03:38 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

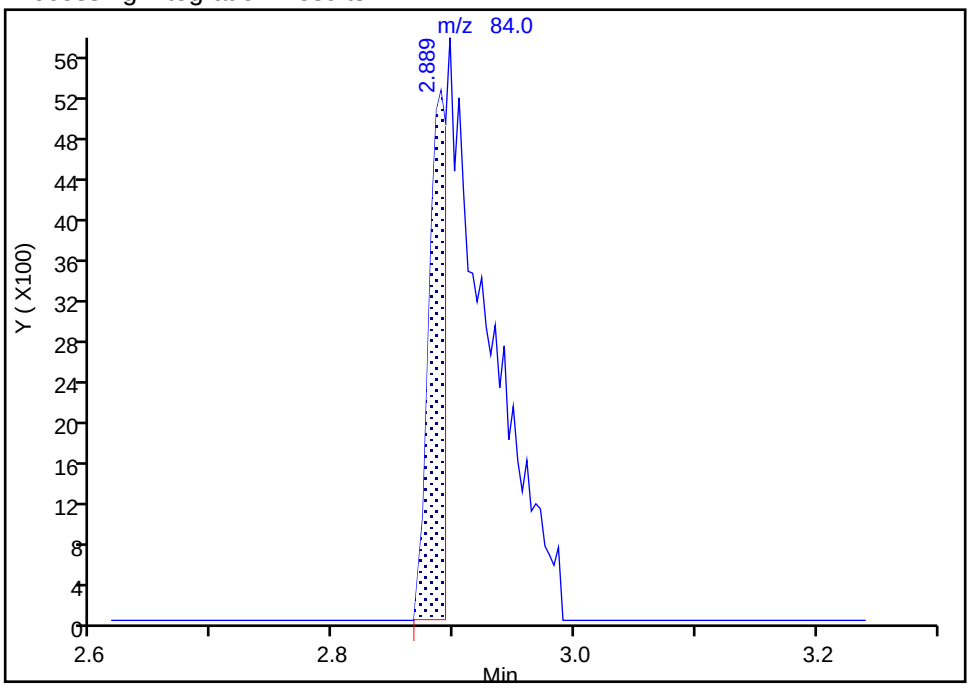
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11765.D
Injection Date: 09-May-2024 00:40:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 3 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

28 Methylene Chloride, CAS: 75-09-2

Signal: 1

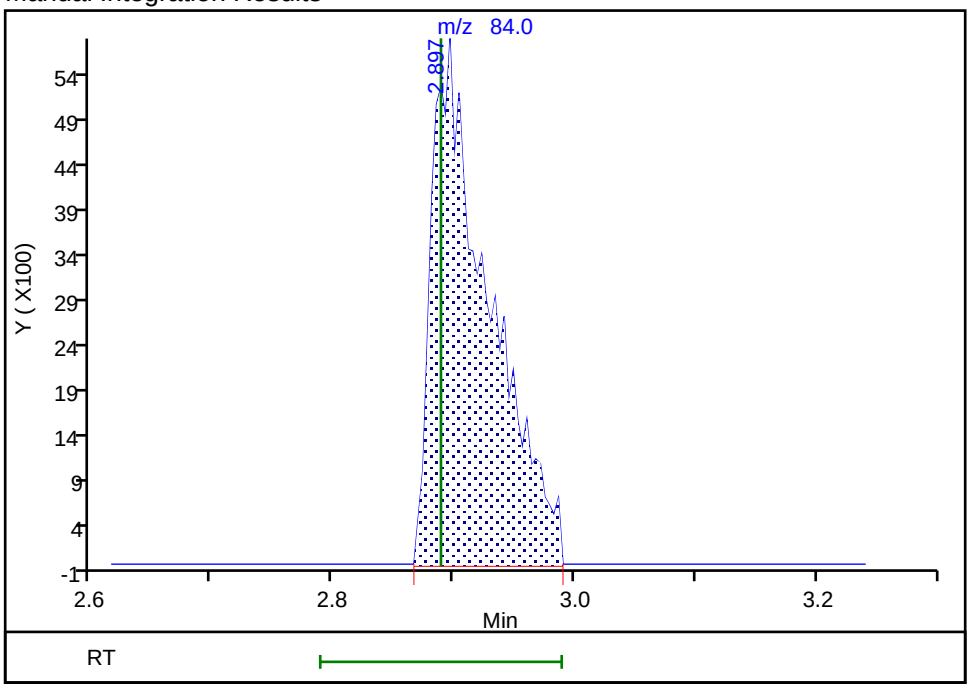
Processing Integration Results

RT: 2.89
Area: 5245
Amount: 0.720553
Amount Units: ug/l



Manual Integration Results

RT: 2.90
Area: 19028
Amount: 2.201224
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:00:31 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

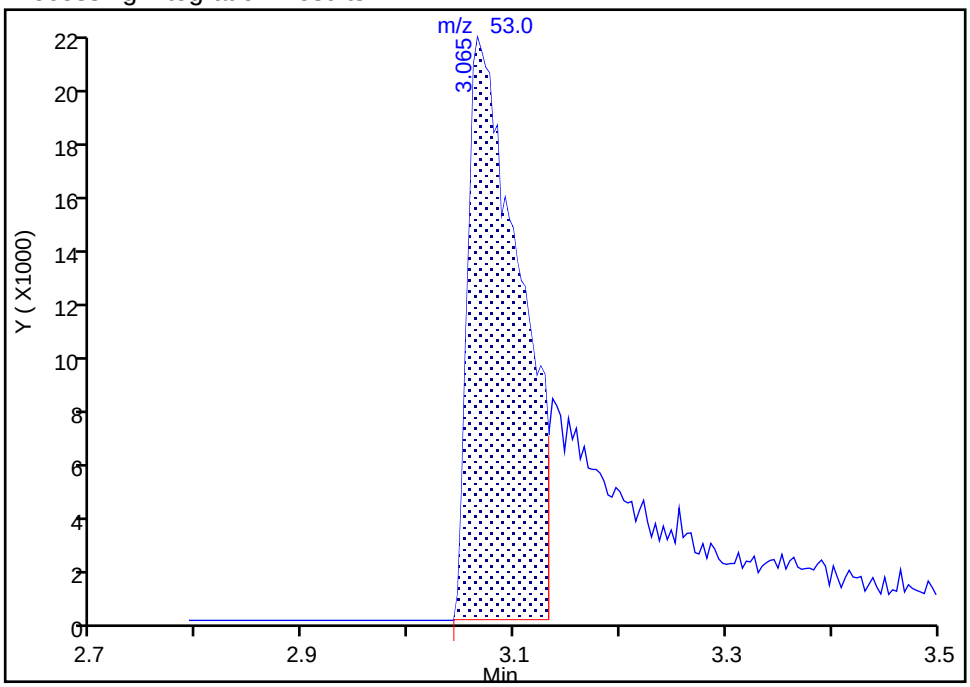
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11765.D
Injection Date: 09-May-2024 00:40:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 3 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

30 Acrylonitrile, CAS: 107-13-1

Signal: 1

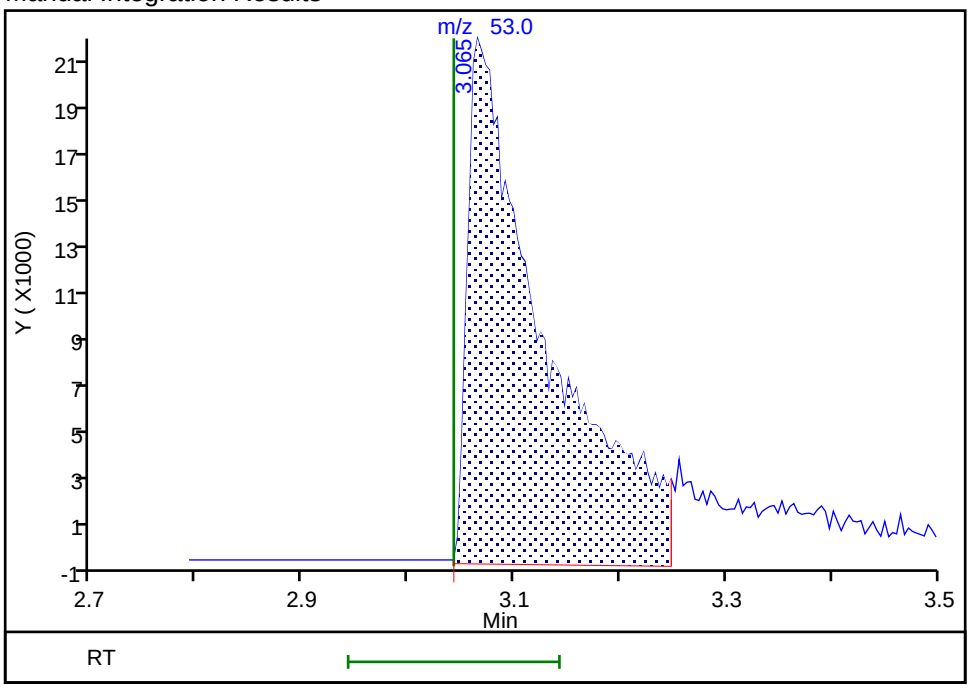
Processing Integration Results

RT: 3.06
Area: 74487
Amount: 14.547779
Amount Units: ug/l



Manual Integration Results

RT: 3.06
Area: 113017
Amount: 18.962611
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 12:05:48 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

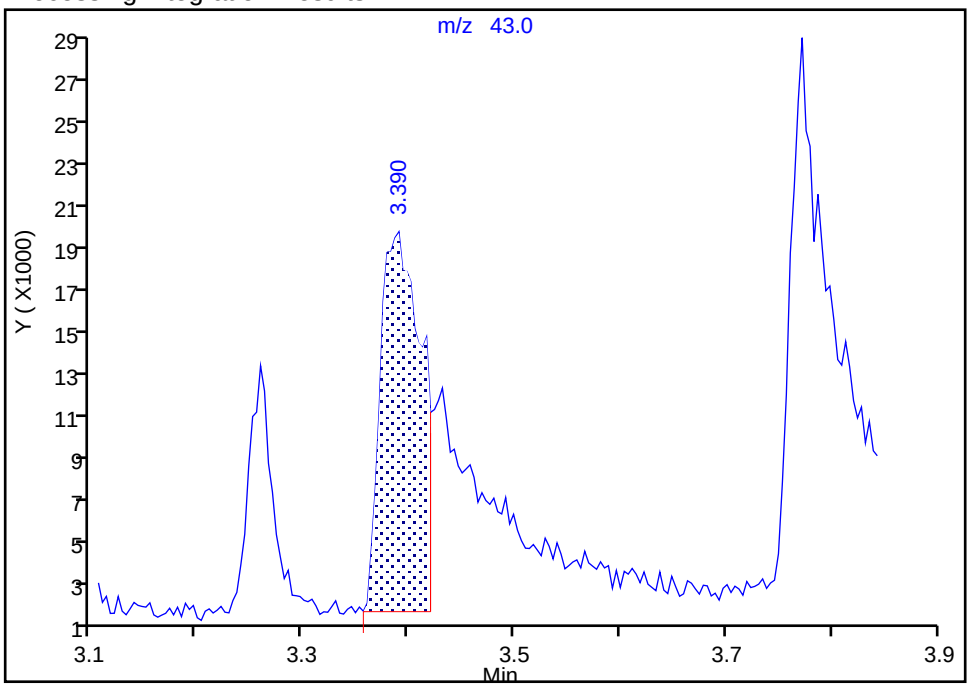
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11765.D				
Injection Date:	09-May-2024 00:40:30	Instrument ID:	VMS_G2		
Lims ID:	STD2				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	3	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

35 Vinyl acetate, CAS: 108-05-4

Signal: 1

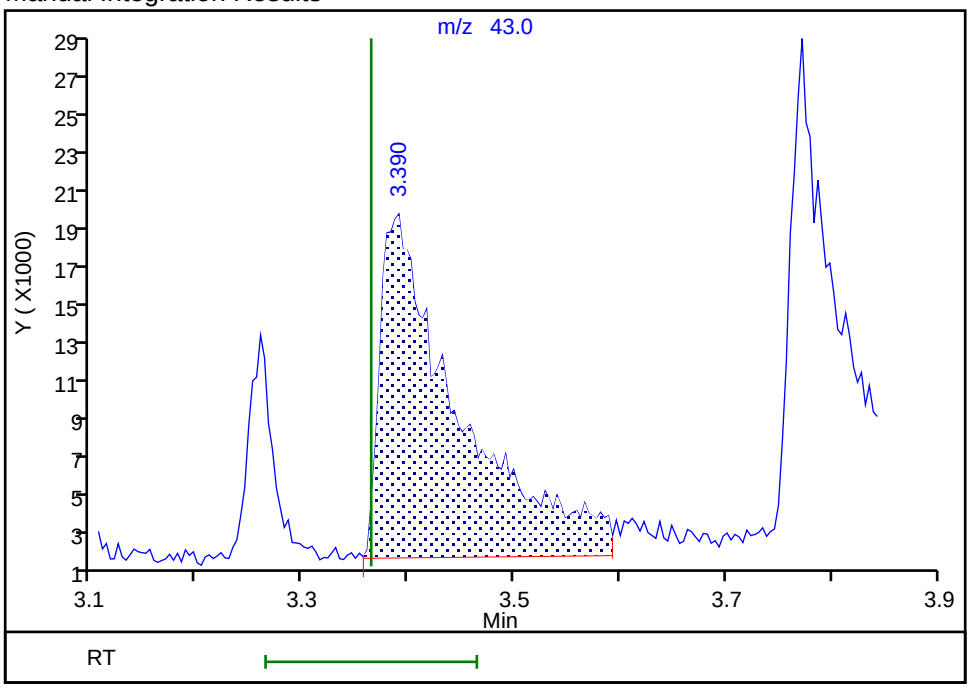
Processing Integration Results

RT: 3.39
Area: 46755
Amount: 4.822672
Amount Units: ug/l



Manual Integration Results

RT: 3.39
Area: 90777
Amount: 4.425276
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 12:08:50 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

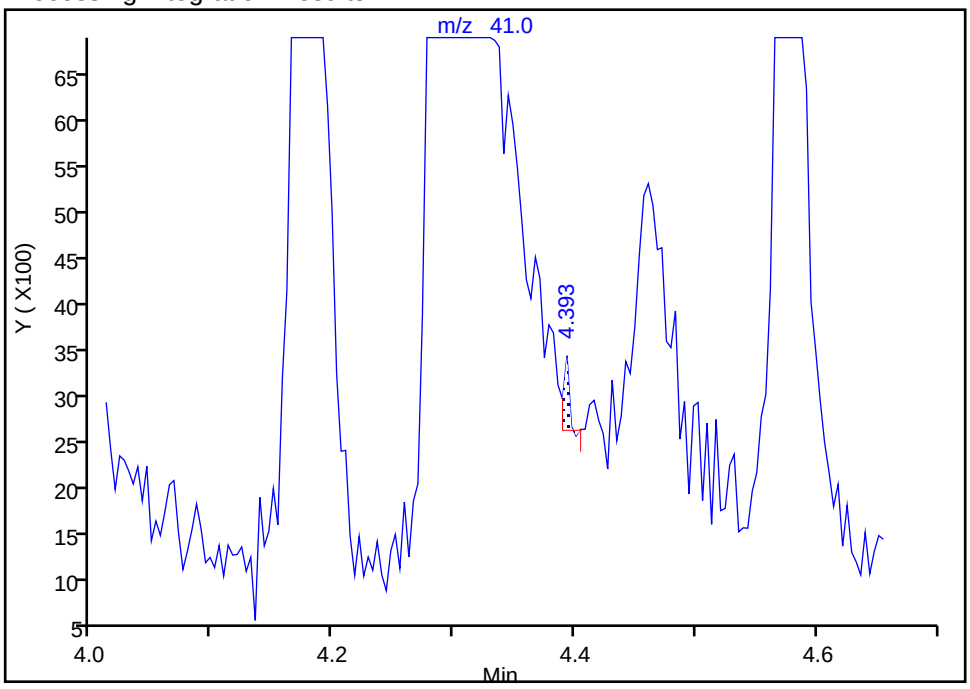
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11765.D				
Injection Date:	09-May-2024 00:40:30	Instrument ID:	VMS_G2		
Lims ID:	STD2				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	3	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

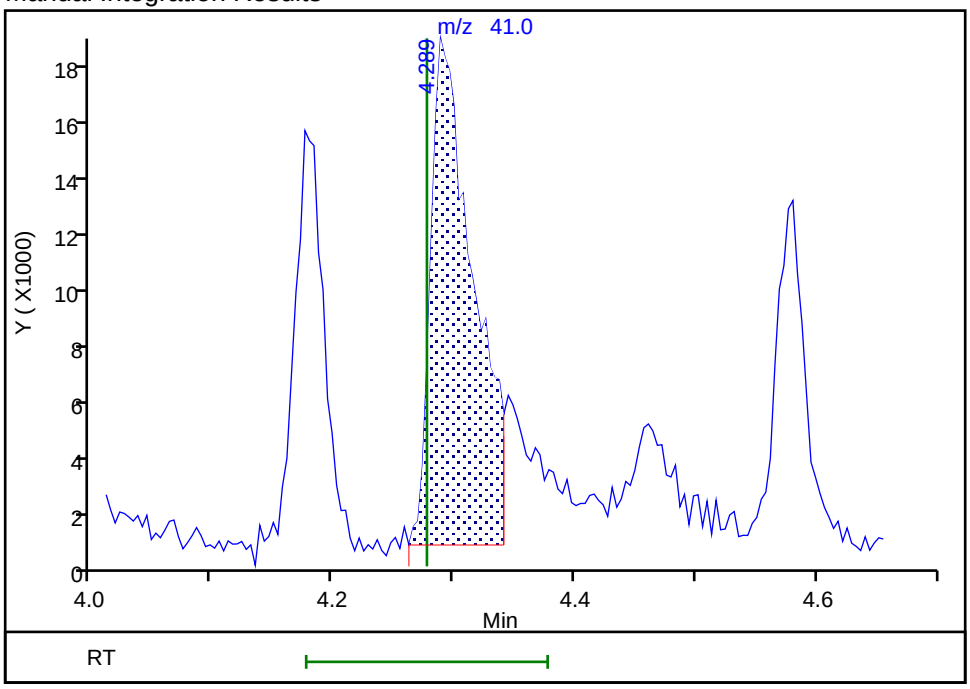
Processing Integration Results

RT: 4.39
Area: 242
Amount: 0.411692
Amount Units: ug/l



Manual Integration Results

RT: 4.29
Area: 41261
Amount: 40.360985
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:01:01 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

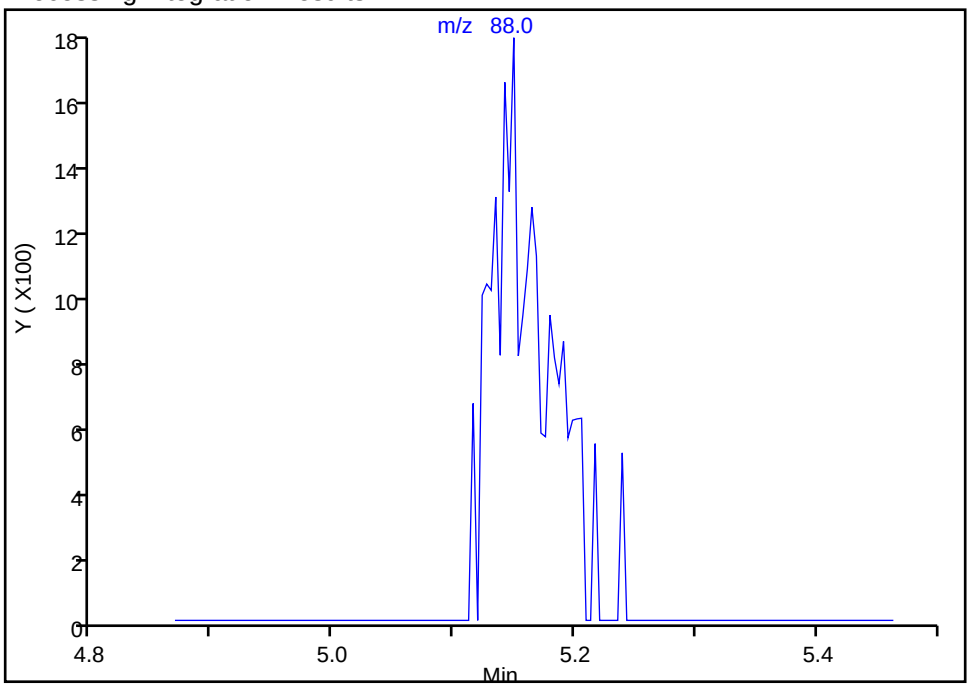
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11765.D
Injection Date: 09-May-2024 00:40:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 3 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

64 1,4-Dioxane, CAS: 123-91-1

Signal: 1

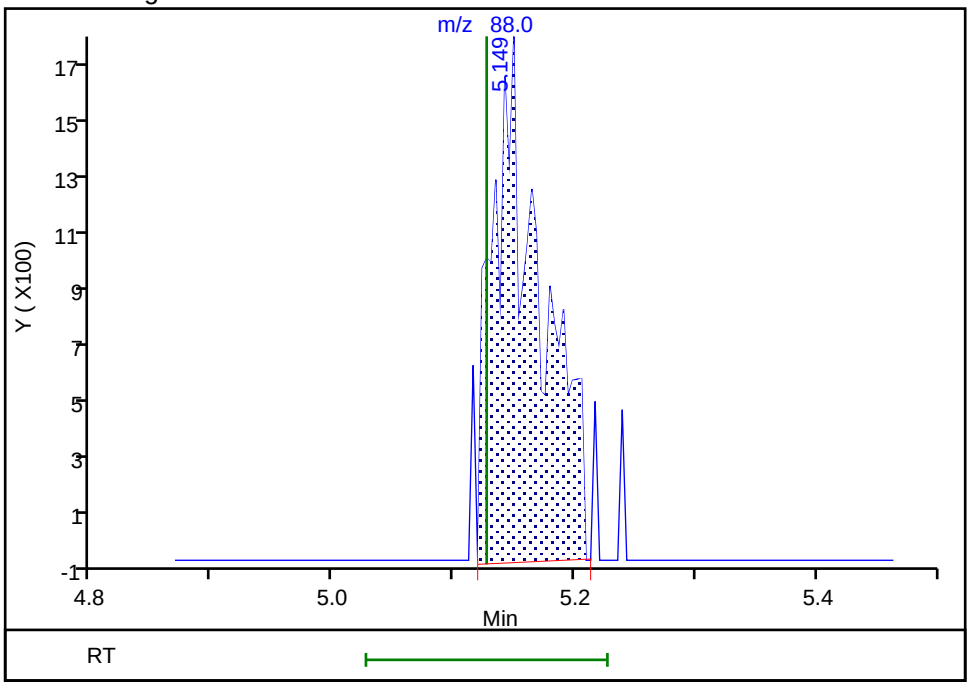
Not Detected
Expected RT: 5.13

Processing Integration Results



Manual Integration Results

RT: 5.15
Area: 4910
Amount: 38.774355
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:01:26 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11766.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 09-May-2024 01:00:30 ALS Bottle#: 4 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Operator ID: COULTER/CF Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub62

Method: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 09-May-2024 12:48:08 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: Q2ZS Date: 09-May-2024 10:58:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.595	4.595	0.000	96	1642587	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.080	7.077	0.003	95	336132	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.281	9.281	0.000	96	474661	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.113	4.113	0.000	92	354795	50.0	48.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.363	4.363	0.000	98	578182	50.0	49.5	
$ 6 Toluene-d8 (Surr)	98	5.827	5.827	0.000	96	1521111	50.0	48.6	
$ 7 4-Bromofluorobenzene (Surr)	95	8.166	8.166	0.000	79	554225	50.0	50.6	
9 Dichlorodifluoromethane	85	1.430	1.426	0.004	99	24821	5.00	3.92	
10 Chloromethane	50	1.632	1.628	0.004	100	41991	5.00	4.41	
11 Vinyl chloride	62	1.665	1.665	0.000	99	29386	5.00	3.90	
12 Bromomethane	94	1.912	1.912	0.000	96	11822	5.00	4.91	
13 Chloroethane	64	1.995	1.991	0.004	97	23410	5.00	4.96	M
14 Dichlorofluoromethane	67	2.148	2.152	-0.004	98	53294	5.00	4.12	
15 Trichlorofluoromethane	101	2.174	2.178	-0.004	99	45578	5.00	4.63	
18 Ethyl ether	59	2.376	2.373	0.003	96	40267	5.00	4.77	
19 Acrolein	56	2.489	2.477	0.012	98	78151	49.4	36.6	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.545	2.541	0.004	69	18836	5.00	4.46	
21 1,1-Dichloroethene	96	2.545	2.545	0.000	93	28248	5.00	4.56	
22 Acetone	43	2.582	2.575	0.007	99	175785	20.0	21.4	
23 Iodomethane	142	2.661	2.657	0.004	99	33904	5.00	4.23	
25 Carbon disulfide	76	2.721	2.713	0.008	100	90468	5.00	4.75	
26 Methyl acetate	43	2.792	2.784	0.008	99	141014	10.0	9.42	
16 3-Chloro-1-propene	41	2.799	2.795	0.004	88	83550	5.00	5.31	
28 Methylene Chloride	84	2.897	2.889	0.007	95	42816	5.00	4.81	M
29 2-Methyl-2-propanol	59	2.941	2.941	0.000	98	227362	50.0	53.2	
30 Acrylonitrile	53	3.054	3.042	0.012	99	318617	50.0	45.7	
31 Methyl tert-butyl ether	73	3.061	3.057	0.004	98	159268	5.00	5.29	
32 trans-1,2-Dichloroethene	96	3.080	3.072	0.008	92	32817	5.00	5.10	
33 Hexane	57	3.260	3.256	0.004	96	52119	5.00	4.20	
35 Vinyl acetate	43	3.383	3.364	0.019	86	185946	10.0	8.80	M
34 1,1-Dichloroethane	63	3.376	3.372	0.004	97	77071	5.00	4.64	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Butanone (MEK)	43	3.765	3.750	0.015	98	214601	20.0	18.6	
40 cis-1,2-Dichloroethene	96	3.772	3.768	0.004	91	33893	5.00	4.66	
41 2,2-Dichloropropane	77	3.772	3.772	0.000	78	52138	5.00	4.38	
44 sec-Butyl Alcohol	45	3.877	3.869	0.008	99	374736	120.0	111.9	
46 Chlorobromomethane	128	3.944	3.941	0.003	87	13648	5.00	4.94	
47 Tetrahydrofuran	42	3.952	3.948	0.004	94	93696	10.0	10.1	
48 Chloroform	83	4.000	3.997	0.003	97	70942	5.00	4.90	
49 1,1,1-Trichloroethane	97	4.124	4.128	-0.004	97	53377	5.00	4.50	
50 Cyclohexane	56	4.180	4.180	0.000	97	78699	5.00	4.37	
52 1,1-Dichloropropene	75	4.240	4.240	0.000	88	49006	5.00	4.63	
51 Carbon tetrachloride	117	4.244	4.240	0.004	90	39918	5.00	4.39	
53 Isobutyl alcohol	41	4.285	4.277	0.008	93	164433	125.0	126.2	a
54 Benzene	78	4.390	4.386	0.004	96	158314	5.00	4.71	
55 1,2-Dichloroethane	62	4.423	4.420	0.003	96	64187	5.00	4.55	
57 n-Heptane	43	4.577	4.577	0.000	96	57637	5.00	4.22	
59 Trichloroethene	95	4.872	4.865	0.007	93	35446	5.00	4.57	
60 2-Pentanone	43	4.988	4.977	0.011	97	312905	16.0	15.1	
61 Methylcyclohexane	55	5.048	5.045	0.003	96	59975	5.00	4.35	
62 1,2-Dichloropropane	63	5.067	5.063	0.004	96	51002	5.00	4.98	
64 1,4-Dioxane	88	5.142	5.127	0.015	39	17609	100.0	101.5	M
65 Dibromomethane	93	5.142	5.138	0.004	89	23334	5.00	4.61	
66 Dichlorobromomethane	83	5.262	5.262	0.000	96	54700	5.00	4.89	
68 2-Chloroethyl vinyl ether	63	5.482	5.471	0.011	91	26305	5.00	4.15	
69 cis-1,3-Dichloropropene	75	5.617	5.610	0.007	88	63754	5.00	4.69	
70 4-Methyl-2-pentanone (MIBK)	43	5.714	5.711	0.003	99	534919	20.0	22.2	
71 Toluene	91	5.887	5.883	0.004	97	154717	5.00	4.66	
72 trans-1,3-Dichloropropene	75	6.081	6.070	0.011	99	64767	5.00	4.76	
73 Ethyl methacrylate	69	6.111	6.096	0.015	97	77406	5.00	5.02	
74 1,1,2-Trichloroethane	97	6.238	6.235	0.003	95	37705	5.00	5.02	
75 Tetrachloroethene	164	6.321	6.317	0.004	93	22773	5.00	4.69	
76 1,3-Dichloropropane	76	6.381	6.377	0.004	94	75788	5.00	5.30	
77 2-Hexanone	43	6.414	6.407	0.007	99	387357	20.0	20.4	
78 Chlorodibromomethane	129	6.564	6.564	0.000	89	35607	5.00	4.92	
79 Ethylene Dibromide	107	6.684	6.676	0.008	97	38119	5.00	5.14	
80 1-Chlorohexane	91	7.080	7.073	0.007	64	37998	4.00	3.59	
81 Chlorobenzene	112	7.107	7.103	0.004	91	93148	5.00	4.89	
82 1,1,1,2-Tetrachloroethane	131	7.181	7.178	0.003	89	33976	5.00	5.02	
83 Ethylbenzene	106	7.189	7.185	0.004	99	47638	5.00	4.70	
84 m-Xylene & p-Xylene	106	7.309	7.305	0.004	98	58339	5.00	4.68	
85 o-Xylene	106	7.660	7.657	0.003	99	60004	5.00	4.79	
86 Styrene	104	7.683	7.675	0.008	93	98362	5.00	4.82	
87 Bromoform	173	7.851	7.847	0.004	93	23819	5.00	4.71	
88 Isopropylbenzene	105	7.997	7.993	0.004	97	155235	5.00	4.82	
89 Cyclohexanone	55	8.091	8.087	0.004	98	220483	150.0	154.6	
91 1,1,2,2-Tetrachloroethane	83	8.293	8.289	0.004	96	64238	5.00	5.17	
92 Bromobenzene	156	8.312	8.300	0.012	96	33614	5.00	5.28	
93 trans-1,4-Dichloro-2-butene	53	8.338	8.326	0.012	88	30189	5.00	5.54	
94 1,2,3-Trichloropropane	110	8.349	8.345	0.004	88	21916	5.00	5.49	
95 N-Propylbenzene	120	8.394	8.390	0.004	99	37214	5.00	4.84	
96 2-Chlorotoluene	126	8.484	8.480	0.004	94	33700	5.00	5.41	
97 1,3,5-Trimethylbenzene	105	8.570	8.562	0.008	94	121330	5.00	4.77	
98 4-Chlorotoluene	126	8.603	8.596	0.007	99	30707	5.00	4.84	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 tert-Butylbenzene	119	8.865	8.865	0.000	95	105373	5.00	4.91	
100 1,2,4-Trimethylbenzene	105	8.933	8.925	0.008	98	123841	5.00	4.89	
101 sec-Butylbenzene	134	9.086	9.082	0.004	96	27521	5.00	5.00	
102 1,3-Dichlorobenzene	146	9.213	9.206	0.007	94	59877	5.00	4.90	
103 4-Isopropyltoluene	119	9.236	9.236	0.000	98	120928	5.00	4.78	
104 1,4-Dichlorobenzene	146	9.307	9.303	0.004	90	62511	5.00	5.01	
106 n-Butylbenzene	91	9.636	9.633	0.004	99	107623	5.00	4.59	
107 1,2-Dichlorobenzene	146	9.655	9.651	0.004	93	60382	5.00	5.09	
108 1,2-Dibromo-3-Chloropropane	157	10.430	10.426	0.004	71	16252	5.00	5.02	
110 1,2,4-Trichlorobenzene	180	11.249	11.242	0.007	92	32343	5.00	4.90	
111 Hexachlorobutadiene	225	11.388	11.384	0.004	94	14702	5.00	4.78	
112 Naphthalene	128	11.507	11.500	0.007	98	123330	5.00	5.12	
113 1,2,3-Trichlorobenzene	180	11.728	11.721	0.007	91	30047	5.00	4.66	
S 115 1,2-Dichloroethene, Total	1				0		10.0	9.75	
S 116 1,3-Dichloropropene, Total	1				0		10.0	9.45	
S 117 Xylenes, Total	106				0		10.0	9.47	
S 118 Total BTEX	1				0			23.5	
S 119 Trihalomethanes, Total	1				0		20.0	19.4	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MV-MegaMain B_00102	Amount Added:	2.50	Units: uL	
MV-Gas B_00162	Amount Added:	1.00	Units: uL	
mv-IS_SS_00079	Amount Added:	5.00	Units: uL	Run Reagent

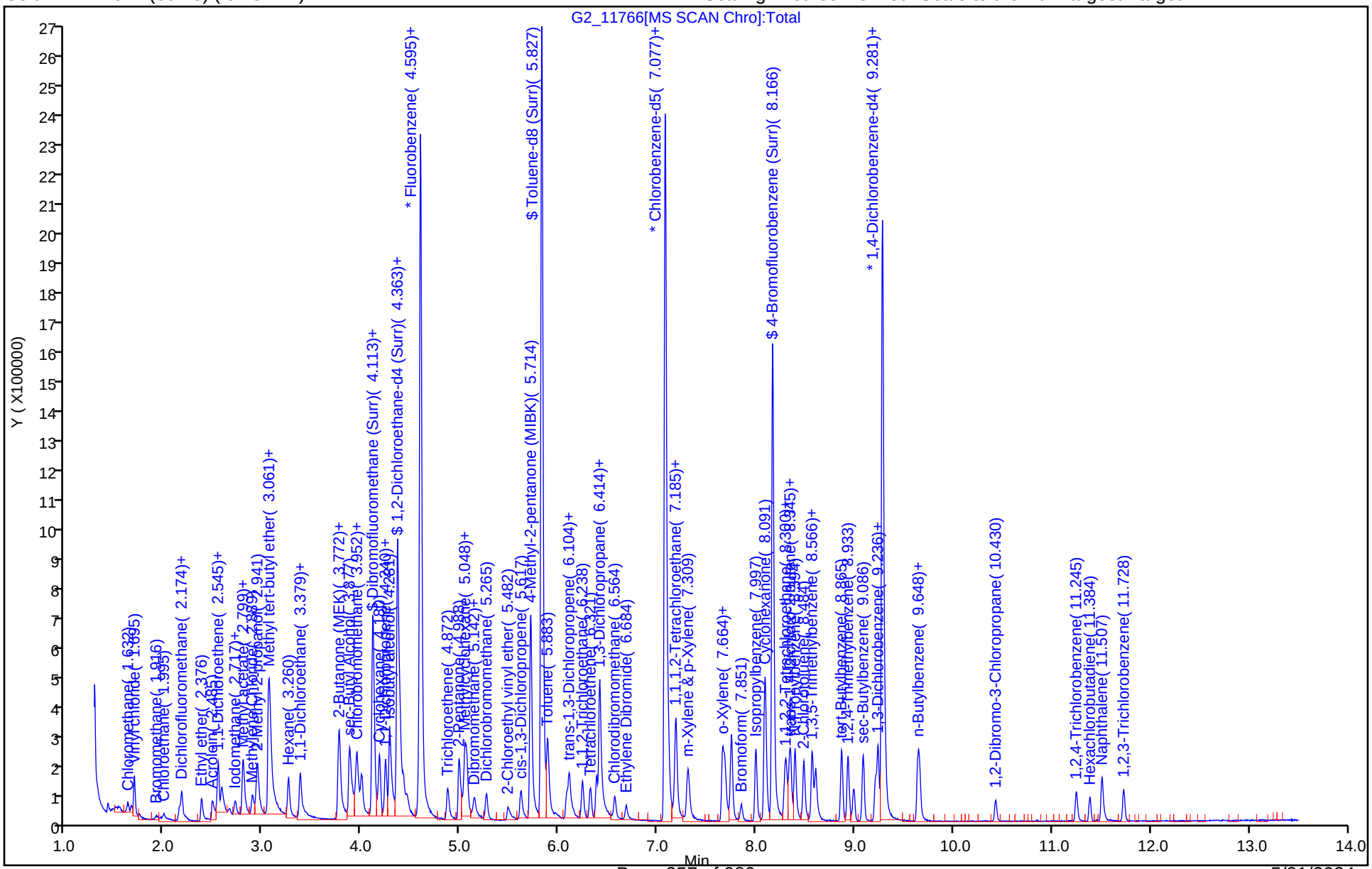
Report Date: 09-May-2024 12:48:09 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11766.D

Injection Date:	09-May-2024 01:00:30	Instrument ID:	VMS_G2	Operator ID:	COULTER/CF
Lims ID:	STD5			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Denver

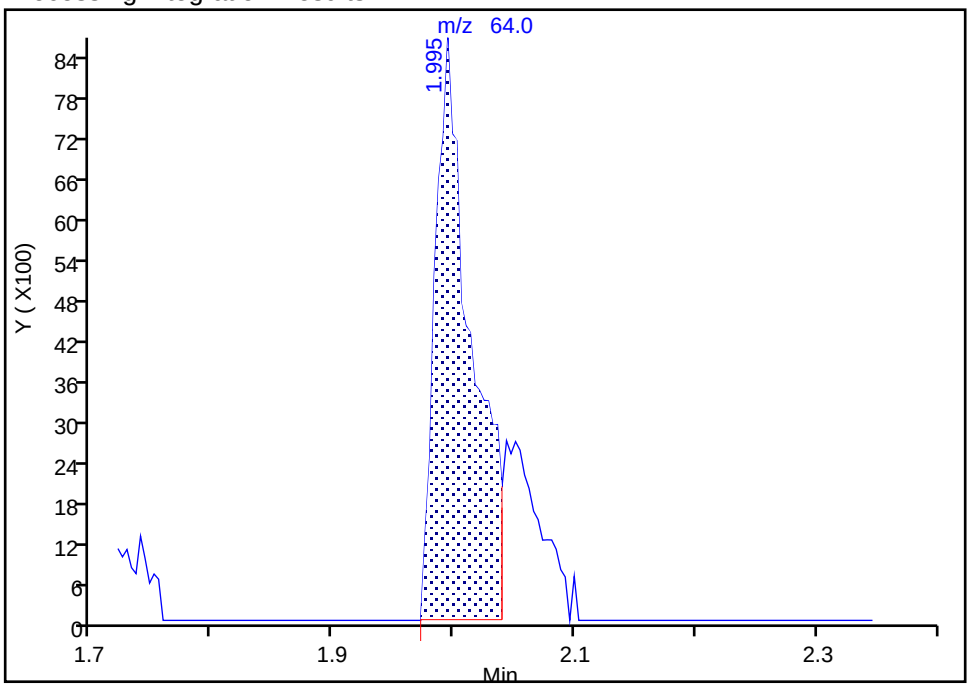
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11766.D				
Injection Date:	09-May-2024 01:00:30	Instrument ID:	VMS_G2		
Lims ID:	STD5				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	4	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

13 Chloroethane, CAS: 75-00-3

Signal: 1

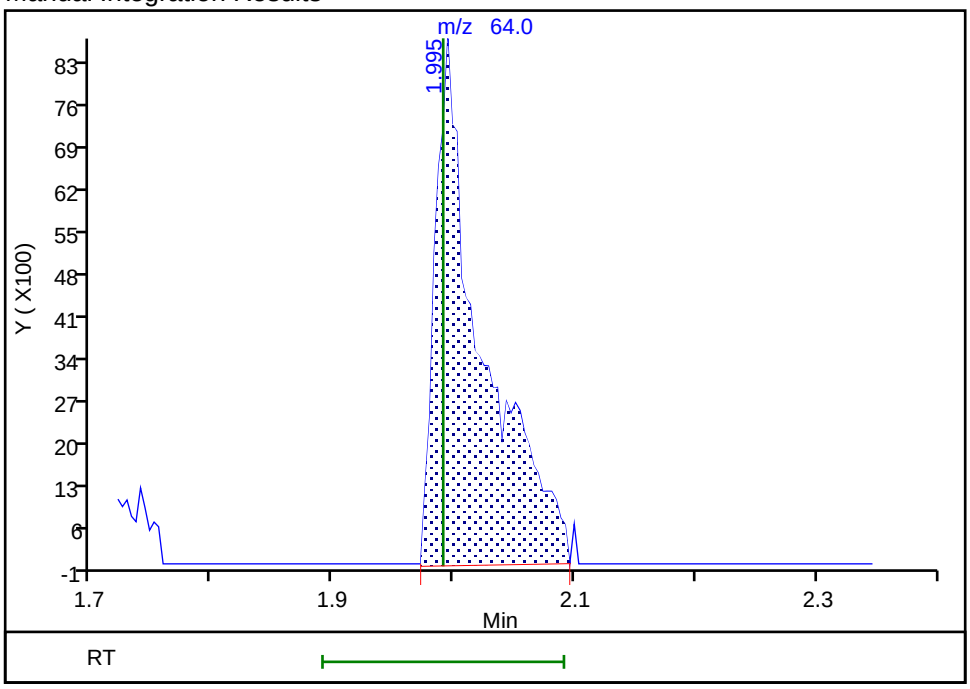
Processing Integration Results

RT: 1.99
Area: 17998
Amount: 2.519110
Amount Units: ug/l



Manual Integration Results

RT: 1.99
Area: 23410
Amount: 4.963166
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:43:20 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

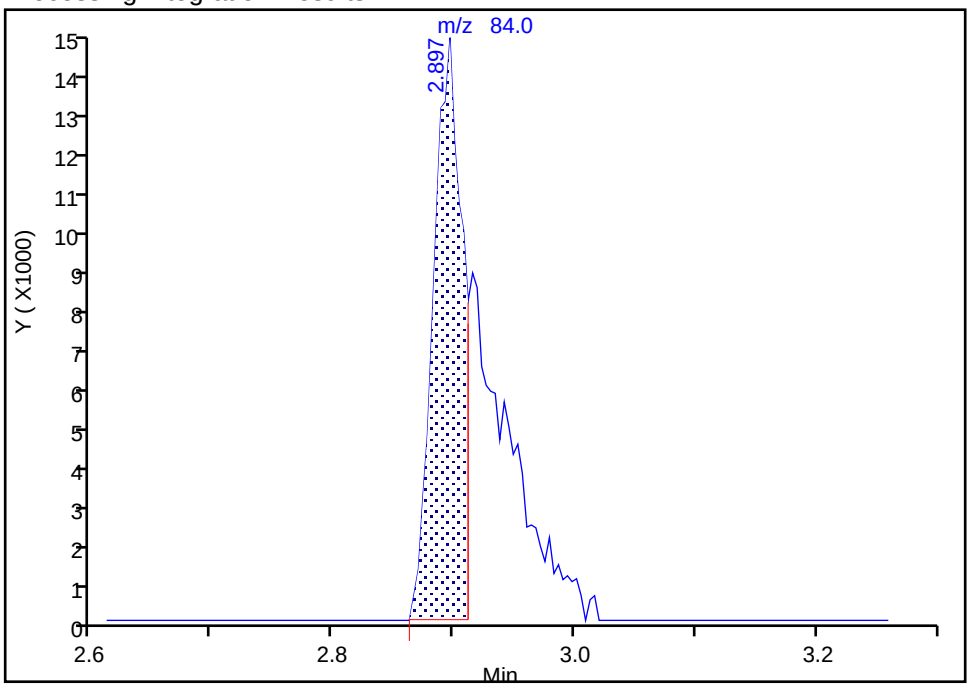
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11766.D				
Injection Date:	09-May-2024 01:00:30	Instrument ID:	VMS_G2		
Lims ID:	STD5				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	4	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

28 Methylene Chloride, CAS: 75-09-2

Signal: 1

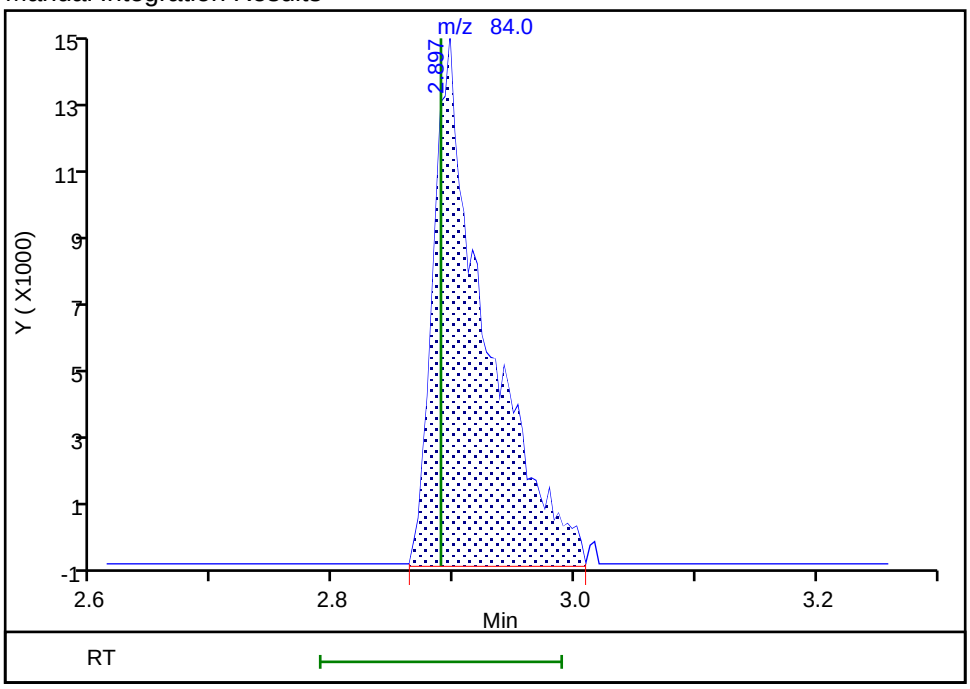
Processing Integration Results

RT: 2.90
Area: 23433
Amount: 3.316620
Amount Units: ug/l



Manual Integration Results

RT: 2.90
Area: 42816
Amount: 4.809766
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 10:58:09 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

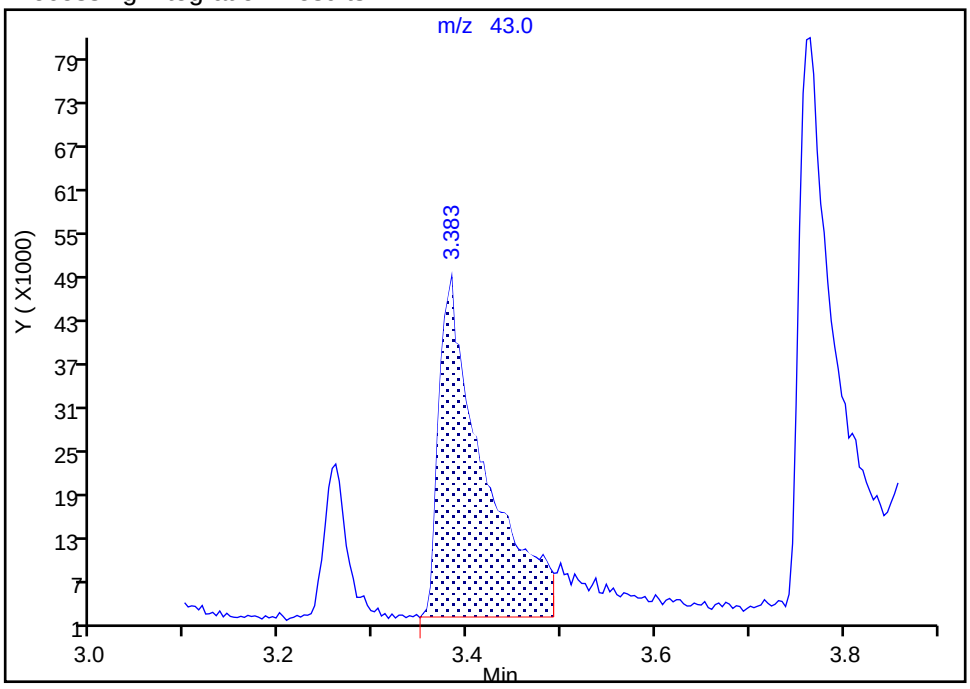
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11766.D
Injection Date: 09-May-2024 01:00:30 Instrument ID: VMS_G2
Lims ID: STD5
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 4 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

35 Vinyl acetate, CAS: 108-05-4

Signal: 1

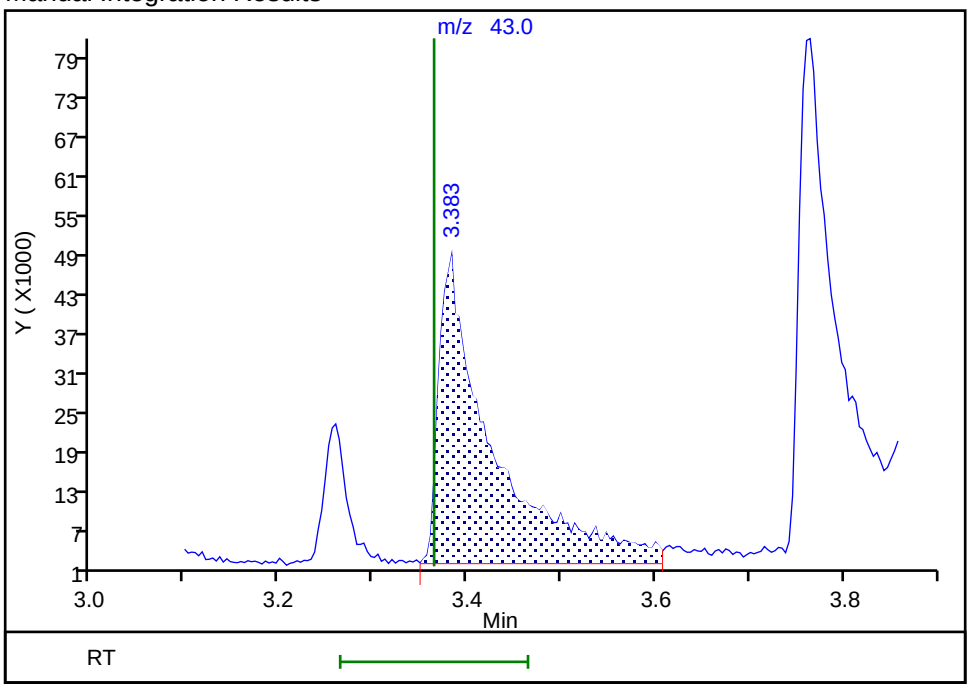
Processing Integration Results

RT: 3.38
Area: 155626
Amount: 9.201285
Amount Units: ug/l



Manual Integration Results

RT: 3.38
Area: 185946
Amount: 8.802340
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 12:08:17 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

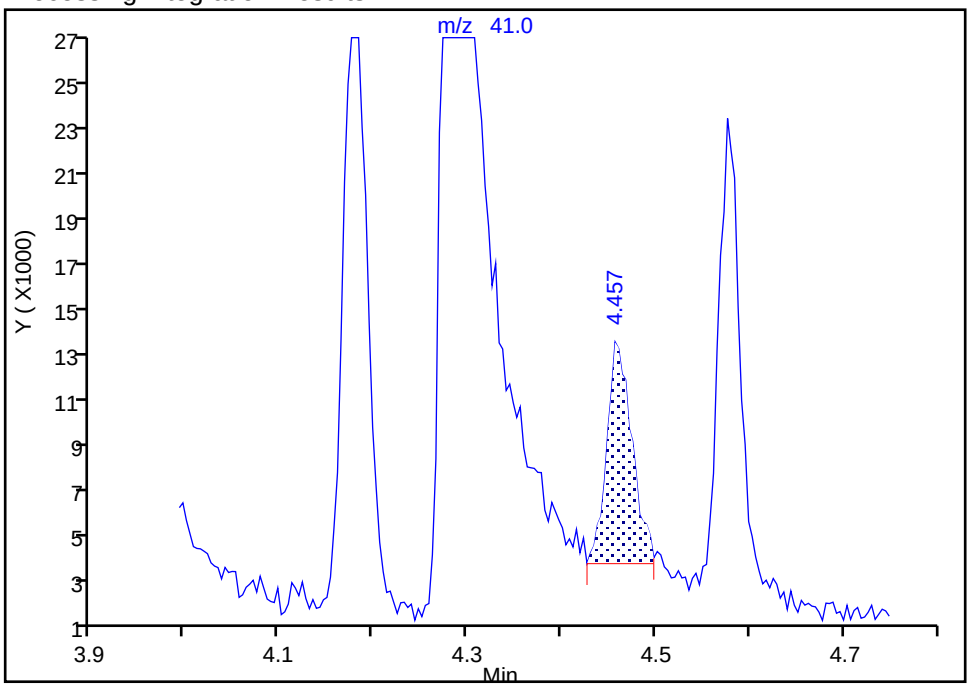
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11766.D
Injection Date: 09-May-2024 01:00:30 Instrument ID: VMS_G2
Lims ID: STD5
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 4 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

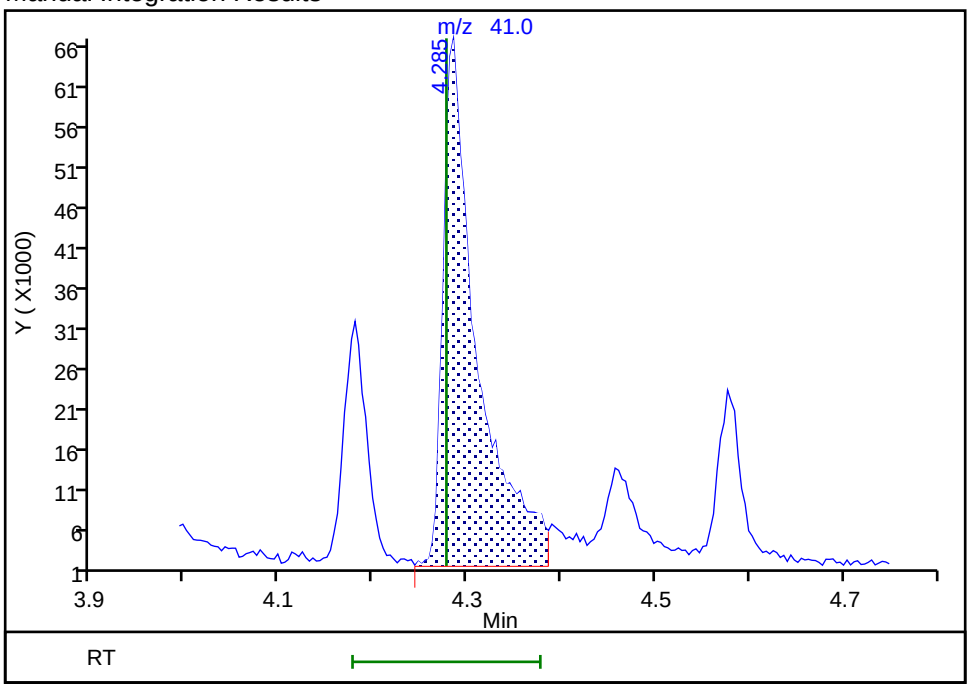
Processing Integration Results

RT: 4.46
Area: 17778
Amount: 37.429266
Amount Units: ug/l



Manual Integration Results

RT: 4.28
Area: 164433
Amount: 126.1742
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 10:58:31 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

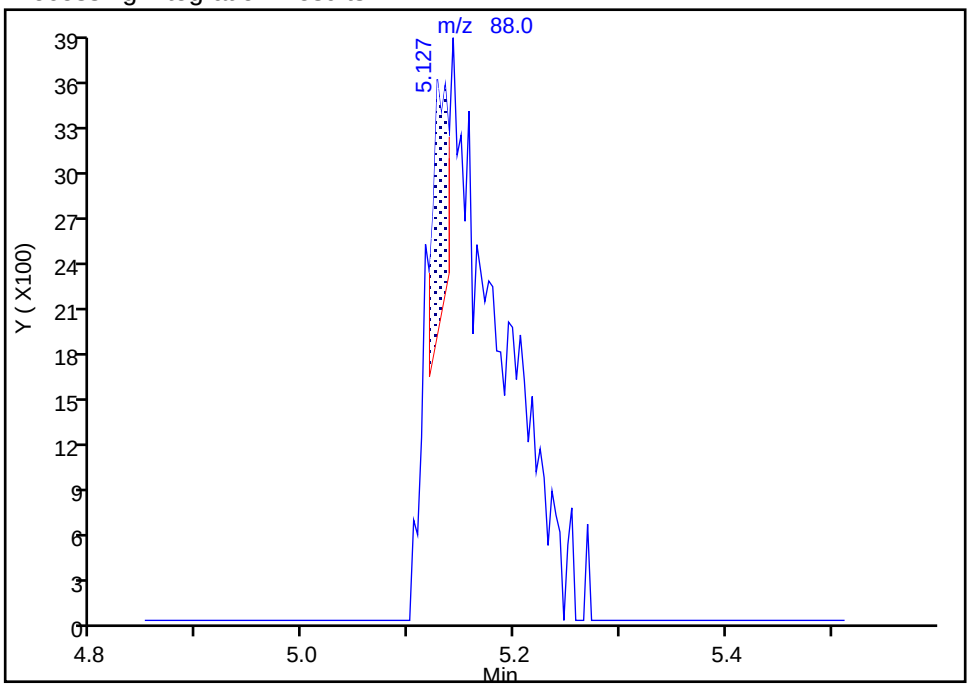
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11766.D				
Injection Date:	09-May-2024 01:00:30	Instrument ID:	VMS_G2		
Lims ID:	STD5				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	4	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

64 1,4-Dioxane, CAS: 123-91-1

Signal: 1

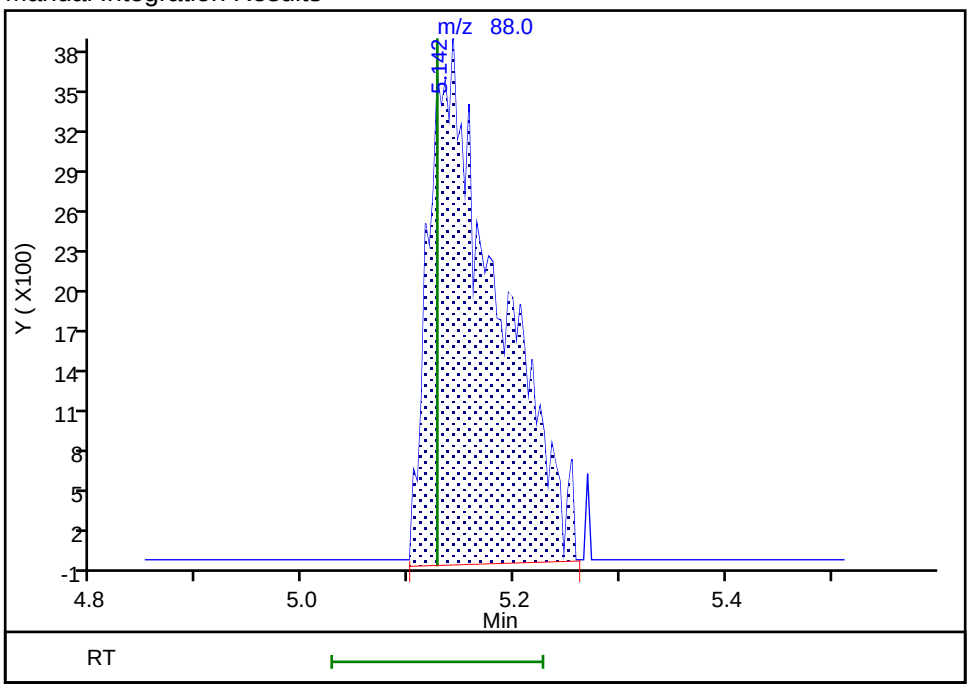
Processing Integration Results

RT: 5.13
Area: 1586
Amount: 9.865925
Amount Units: ug/l



Manual Integration Results

RT: 5.14
Area: 17609
Amount: 101.5389
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 12:30:14 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11767.D
Lims ID: STD10
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 09-May-2024 01:21:30 ALS Bottle#: 5 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD10
Operator ID: COULTER/CF Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub62

Method: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 09-May-2024 12:48:13 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: Q2ZS Date: 09-May-2024 10:57:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.595	4.595	0.000	97	1555702	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.080	7.080	0.000	94	336632	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.281	9.281	0.000	96	478720	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.113	4.113	0.000	91	357959	50.0	51.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.363	4.363	0.000	99	573674	50.0	51.8	
$ 6 Toluene-d8 (Surr)	98	5.827	5.827	0.000	96	1535897	50.0	49.0	
$ 7 4-Bromofluorobenzene (Surr)	95	8.165	8.165	0.000	79	559569	50.0	50.6	
9 Dichlorodifluoromethane	85	1.429	1.429	0.000	99	67225	10.0	11.2	
10 Chloromethane	50	1.628	1.628	0.000	99	92952	10.0	10.3	
11 Vinyl chloride	62	1.665	1.665	0.000	98	80098	10.0	11.2	
12 Bromomethane	94	1.916	1.916	0.000	93	24779	10.0	10.9	
13 Chloroethane	64	1.995	1.995	0.000	99	53309	10.0	11.9	M
14 Dichlorofluoromethane	67	2.152	2.152	0.000	95	118732	10.0	9.69	
15 Trichlorofluoromethane	101	2.178	2.178	0.000	99	102469	10.0	11.0	
18 Ethyl ether	59	2.372	2.372	0.000	97	73402	10.0	9.18	
19 Acrolein	56	2.481	2.481	0.000	99	171502	98.8	84.8	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.545	2.545	0.000	95	34108	10.0	8.53	
21 1,1-Dichloroethene	96	2.545	2.545	0.000	92	53066	10.0	9.05	
22 Acetone	43	2.582	2.582	0.000	98	319089	40.0	41.0	
23 Iodomethane	142	2.661	2.661	0.000	98	63986	10.0	8.44	M
25 Carbon disulfide	76	2.717	2.717	0.000	100	156166	10.0	8.65	
26 Methyl acetate	43	2.792	2.792	0.000	100	265346	20.0	17.9	
16 3-Chloro-1-propene	41	2.799	2.799	0.000	87	153840	10.0	10.3	
28 Methylene Chloride	84	2.896	2.896	0.000	94	68765	10.0	8.16	
29 2-Methyl-2-propanol	59	2.941	2.941	0.000	98	512728	100.0	126.6	
30 Acrylonitrile	53	3.054	3.054	0.000	99	698832	100.0	101.3	
31 Methyl tert-butyl ether	73	3.057	3.057	0.000	100	281937	10.0	9.89	
32 trans-1,2-Dichloroethene	96	3.076	3.076	0.000	92	57905	10.0	9.49	
33 Hexane	57	3.256	3.256	0.000	96	98510	10.0	7.93	
35 Vinyl acetate	43	3.375	3.375	0.000	97	349046	20.0	17.4	M
34 1,1-Dichloroethane	63	3.375	3.375	0.000	95	139964	10.0	8.89	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Butanone (MEK)	43	3.757	3.757	0.000	98	462958	40.0	39.5	
40 cis-1,2-Dichloroethene	96	3.776	3.776	0.000	91	64072	10.0	9.30	
41 2,2-Dichloropropane	77	3.772	3.772	0.000	78	97084	10.0	8.61	
44 sec-Butyl Alcohol	45	3.873	3.873	0.000	100	923898	240.0	266.8	
46 Chlorobromomethane	128	3.944	3.944	0.000	89	20244	10.0	7.33	
47 Tetrahydrofuran	42	3.952	3.952	0.000	94	192453	20.0	21.8	
48 Chloroform	83	4.000	4.000	0.000	98	119992	10.0	8.76	
49 1,1,1-Trichloroethane	97	4.128	4.128	0.000	97	97332	10.0	8.67	
50 Cyclohexane	56	4.180	4.180	0.000	98	144601	10.0	8.47	
52 1,1-Dichloropropene	75	4.240	4.240	0.000	91	91877	10.0	8.78	
51 Carbon tetrachloride	117	4.240	4.240	0.000	96	75617	10.0	8.78	
53 Isobutyl alcohol	41	4.281	4.281	0.000	94	410242	250.0	315.3	a
54 Benzene	78	4.390	4.390	0.000	97	286056	10.0	8.99	
55 1,2-Dichloroethane	62	4.423	4.423	0.000	96	116161	10.0	8.69	
57 n-Heptane	43	4.577	4.577	0.000	98	103613	10.0	8.01	
59 Trichloroethene	95	4.872	4.872	0.000	90	67494	10.0	8.68	
60 2-Pentanone	43	4.981	4.981	0.000	97	762148	32.0	35.5	
61 Methylcyclohexane	55	5.048	5.048	0.000	97	109149	10.0	8.36	
62 1,2-Dichloropropane	63	5.067	5.067	0.000	93	90194	10.0	9.29	
64 1,4-Dioxane	88	5.138	5.138	0.000	90	40570	200.0	227.7	M
65 Dibromomethane	93	5.142	5.142	0.000	89	45126	10.0	9.41	
66 Dichlorobromomethane	83	5.265	5.265	0.000	97	95131	10.0	8.99	
68 2-Chloroethyl vinyl ether	63	5.479	5.479	0.000	90	79867	10.0	10.9	
69 cis-1,3-Dichloropropene	75	5.613	5.613	0.000	89	107687	10.0	7.91	
70 4-Methyl-2-pentanone (MIBK)	43	5.711	5.711	0.000	99	1129935	40.0	49.5	
71 Toluene	91	5.886	5.886	0.000	97	283040	10.0	9.00	
72 trans-1,3-Dichloropropene	75	6.077	6.077	0.000	99	120571	10.0	9.36	
73 Ethyl methacrylate	69	6.103	6.103	0.000	96	158921	10.0	9.80	
74 1,1,2-Trichloroethane	97	6.234	6.234	0.000	95	71069	10.0	10.0	
75 Tetrachloroethene	164	6.317	6.317	0.000	90	42784	10.0	8.48	
76 1,3-Dichloropropane	76	6.384	6.384	0.000	98	140595	10.0	9.83	
77 2-Hexanone	43	6.410	6.410	0.000	99	888198	40.0	44.6	
78 Chlorodibromomethane	129	6.568	6.568	0.000	90	68635	10.0	9.46	
79 Ethylene Dibromide	107	6.680	6.680	0.000	95	67726	10.0	9.12	
80 1-Chlorohexane	91	7.076	7.076	0.000	44	68887	8.00	6.50	
81 Chlorobenzene	112	7.106	7.106	0.000	90	166130	10.0	8.70	
82 1,1,1,2-Tetrachloroethane	131	7.178	7.178	0.000	91	65253	10.0	9.63	
83 Ethylbenzene	106	7.185	7.185	0.000	100	90809	10.0	8.95	
84 m-Xylene & p-Xylene	106	7.308	7.308	0.000	97	105006	10.0	8.41	
85 o-Xylene	106	7.660	7.660	0.000	99	115446	10.0	9.20	
86 Styrene	104	7.683	7.683	0.000	94	182389	10.0	8.93	
87 Bromoform	173	7.851	7.851	0.000	93	49741	10.0	9.83	
88 Isopropylbenzene	105	7.993	7.993	0.000	98	291940	10.0	8.98	
89 Cyclohexanone	55	8.087	8.087	0.000	99	517263	300.0	362.2	
91 1,1,2,2-Tetrachloroethane	83	8.289	8.289	0.000	96	138359	10.0	11.0	
92 Bromobenzene	156	8.304	8.304	0.000	96	68138	10.0	10.6	
93 trans-1,4-Dichloro-2-butene	53	8.334	8.334	0.000	75	58326	10.0	10.6	
94 1,2,3-Trichloropropane	110	8.345	8.345	0.000	87	46495	10.0	11.5	
95 N-Propylbenzene	120	8.394	8.394	0.000	99	72178	10.0	9.30	
96 2-Chlorotoluene	126	8.480	8.480	0.000	93	63922	10.0	10.2	
97 1,3,5-Trimethylbenzene	105	8.570	8.570	0.000	94	236703	10.0	9.23	
98 4-Chlorotoluene	126	8.603	8.603	0.000	99	59784	10.0	9.35	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 tert-Butylbenzene	119	8.865	8.865	0.000	95	203912	10.0	9.42	
100 1,2,4-Trimethylbenzene	105	8.929	8.929	0.000	99	244173	10.0	9.56	
101 sec-Butylbenzene	134	9.086	9.086	0.000	96	54230	10.0	9.77	
102 1,3-Dichlorobenzene	146	9.210	9.210	0.000	94	120639	10.0	9.80	
103 4-Isopropyltoluene	119	9.236	9.236	0.000	97	241628	10.0	9.46	
104 1,4-Dichlorobenzene	146	9.307	9.307	0.000	93	115983	10.0	9.22	
106 n-Butylbenzene	91	9.636	9.636	0.000	99	216947	10.0	9.17	
107 1,2-Dichlorobenzene	146	9.659	9.659	0.000	91	119444	10.0	9.99	
108 1,2-Dibromo-3-Chloropropane	157	10.426	10.426	0.000	68	36563	10.0	11.2	
110 1,2,4-Trichlorobenzene	180	11.245	11.245	0.000	86	64012	10.0	9.62	
111 Hexachlorobutadiene	225	11.384	11.384	0.000	95	28942	10.0	9.34	
112 Naphthalene	128	11.504	11.504	0.000	98	265661	10.0	10.9	
113 1,2,3-Trichlorobenzene	180	11.724	11.724	0.000	92	64879	10.0	9.97	
S 115 1,2-Dichloroethene, Total	1				0		20.0	18.8	
S 116 1,3-Dichloropropene, Total	1				0		20.0	17.3	
S 117 Xylenes, Total	106				0		20.0	17.6	
S 118 Total BTEX	1				0			44.5	
S 119 Trihalomethanes, Total	1				0		40.0	37.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MV-MegaMain B_00102	Amount Added:	5.00	Units: uL	
MV-Gas B_00162	Amount Added:	2.00	Units: uL	
mv-IS_SS_00079	Amount Added:	5.00	Units: uL	Run Reagent

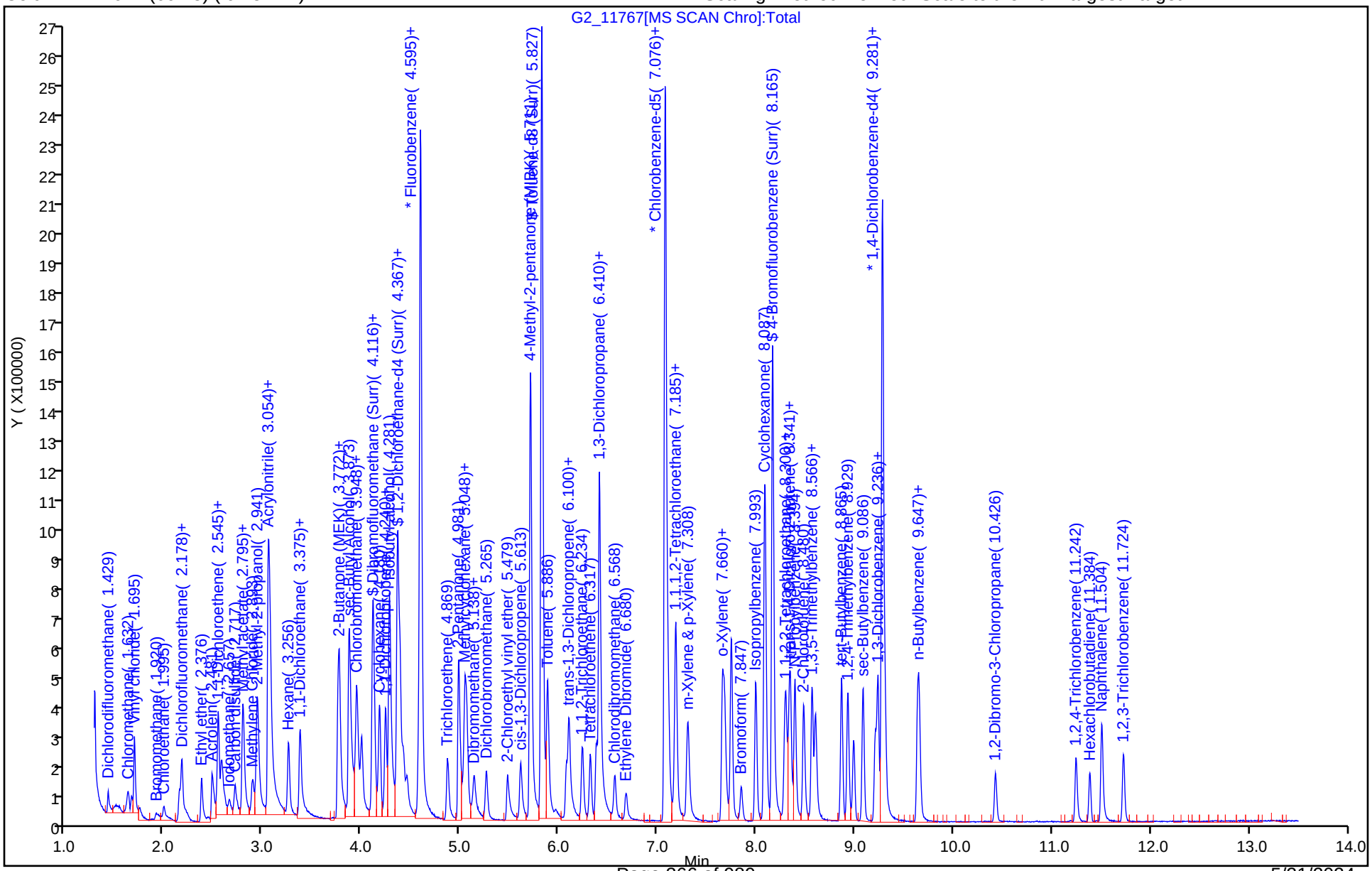
Report Date: 09-May-2024 12:48:14 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11767.D

Injection Date:	09-May-2024 01:21:30	Instrument ID:	VMS_G2	Operator ID:	COULTER/CF
Lims ID:	STD10			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver

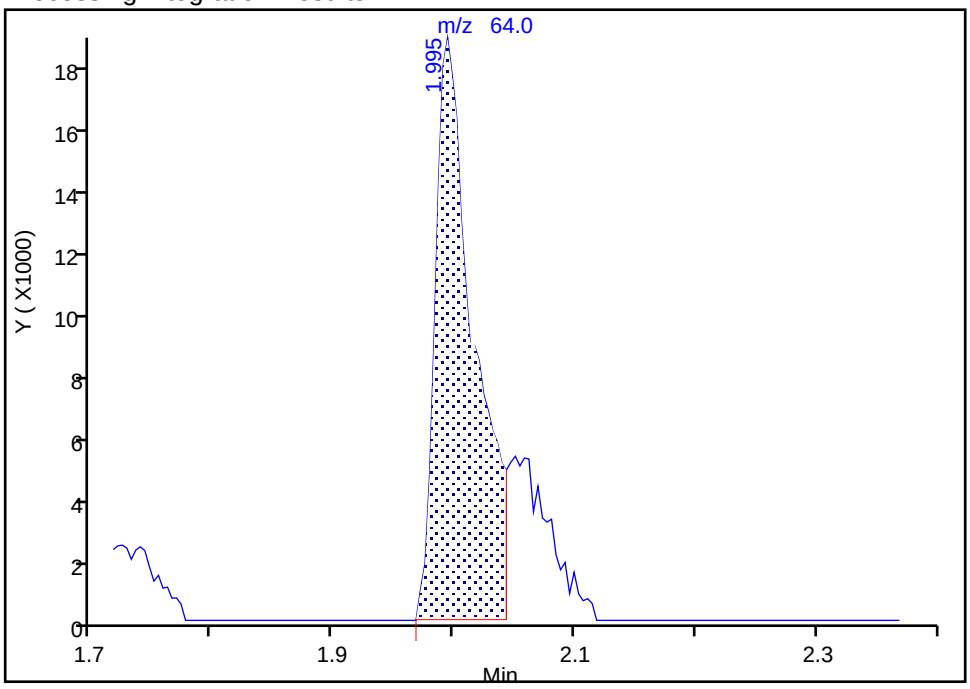
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11767.D
Injection Date: 09-May-2024 01:21:30 Instrument ID: VMS_G2
Lims ID: STD10
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 5 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

13 Chloroethane, CAS: 75-00-3

Signal: 1

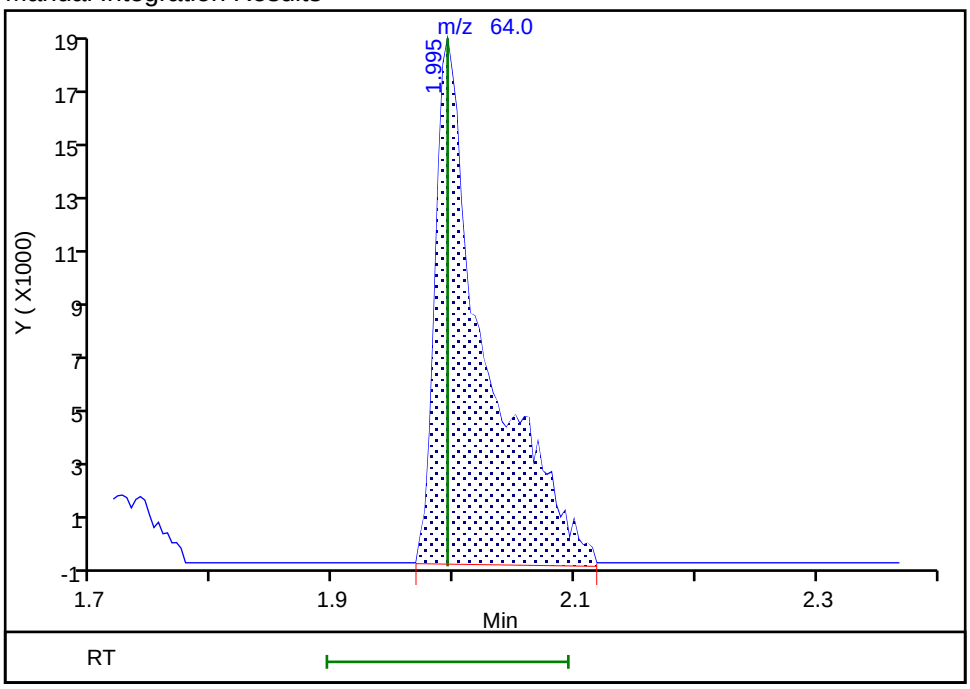
Processing Integration Results

RT: 1.99
Area: 40890
Amount: 6.168646
Amount Units: ug/l



Manual Integration Results

RT: 1.99
Area: 53309
Amount: 11.933281
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:42:58 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

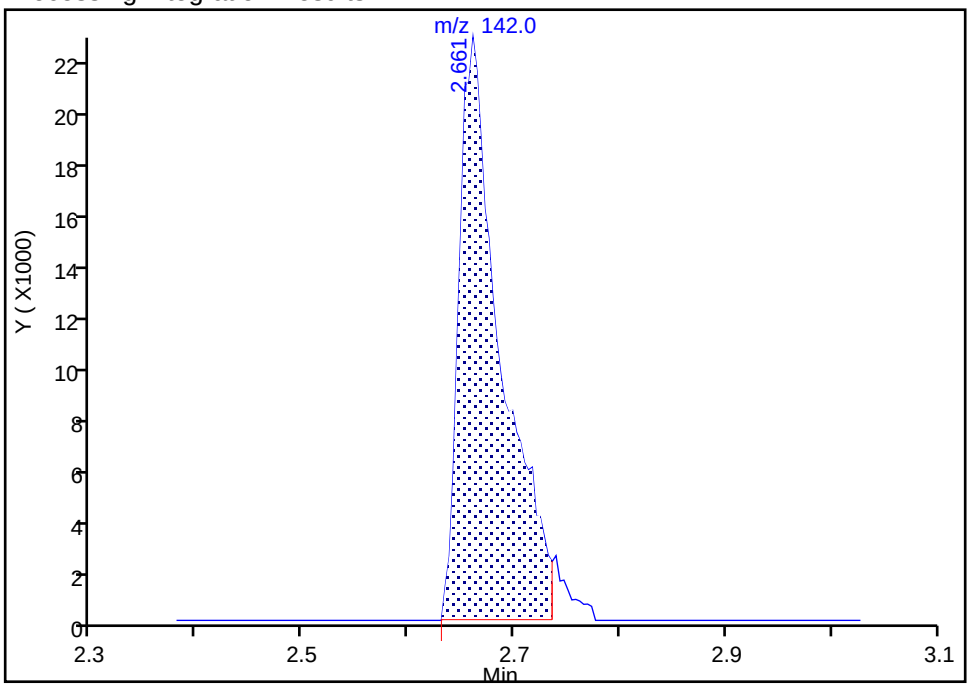
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11767.D				
Injection Date:	09-May-2024 01:21:30	Instrument ID:	VMS_G2		
Lims ID:	STD10				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	5	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

23 Iodomethane, CAS: 74-88-4

Signal: 1

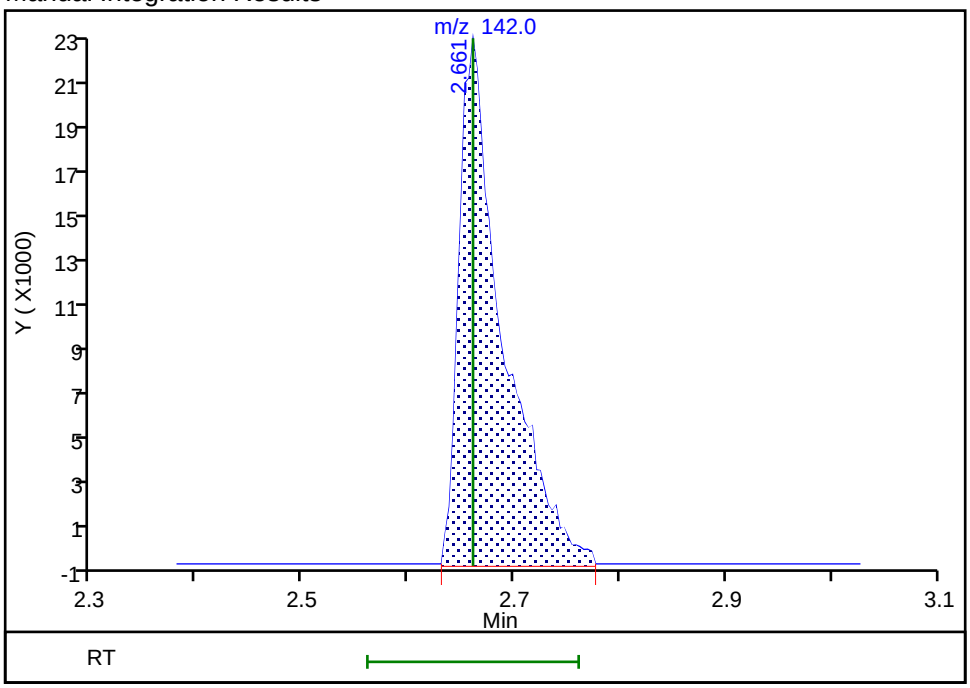
Processing Integration Results

RT: 2.66
Area: 61071
Amount: 8.049114
Amount Units: ug/l



Manual Integration Results

RT: 2.66
Area: 63986
Amount: 8.436242
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:51:26 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

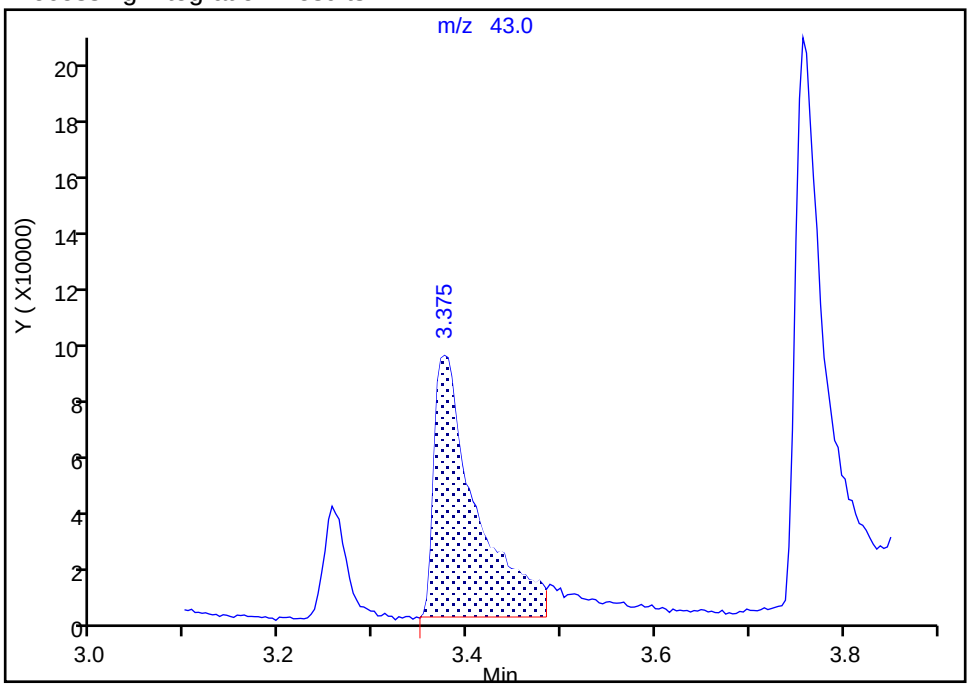
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11767.D				
Injection Date:	09-May-2024 01:21:30	Instrument ID:	VMS_G2		
Lims ID:	STD10				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	5	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

35 Vinyl acetate, CAS: 108-05-4

Signal: 1

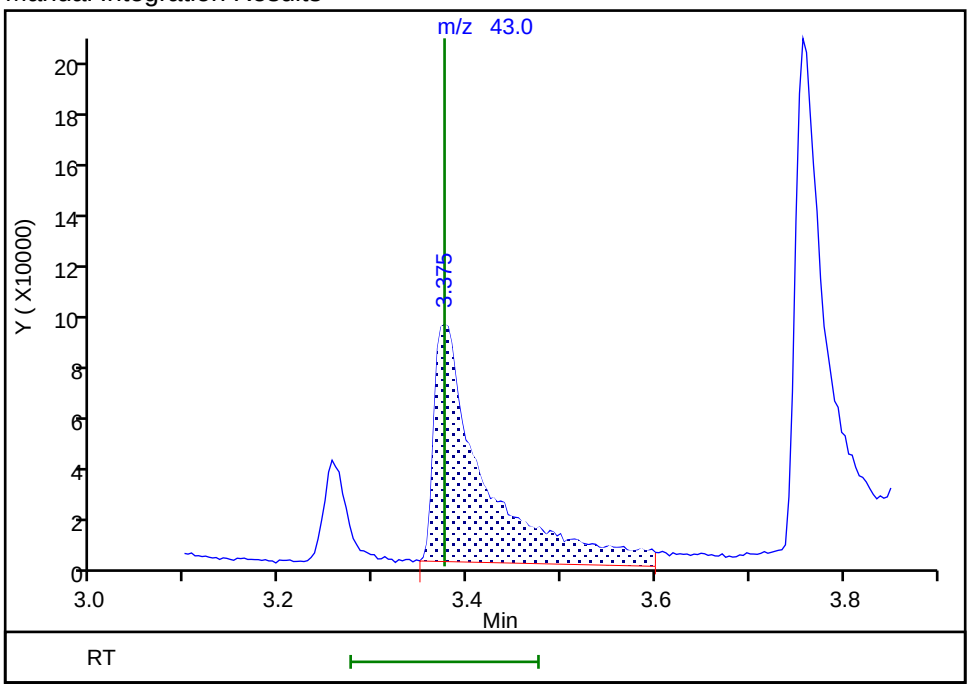
Processing Integration Results

RT: 3.38
Area: 290047
Amount: 15.457367
Amount Units: ug/l



Manual Integration Results

RT: 3.38
Area: 349046
Amount: 17.446003
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 12:07:45 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

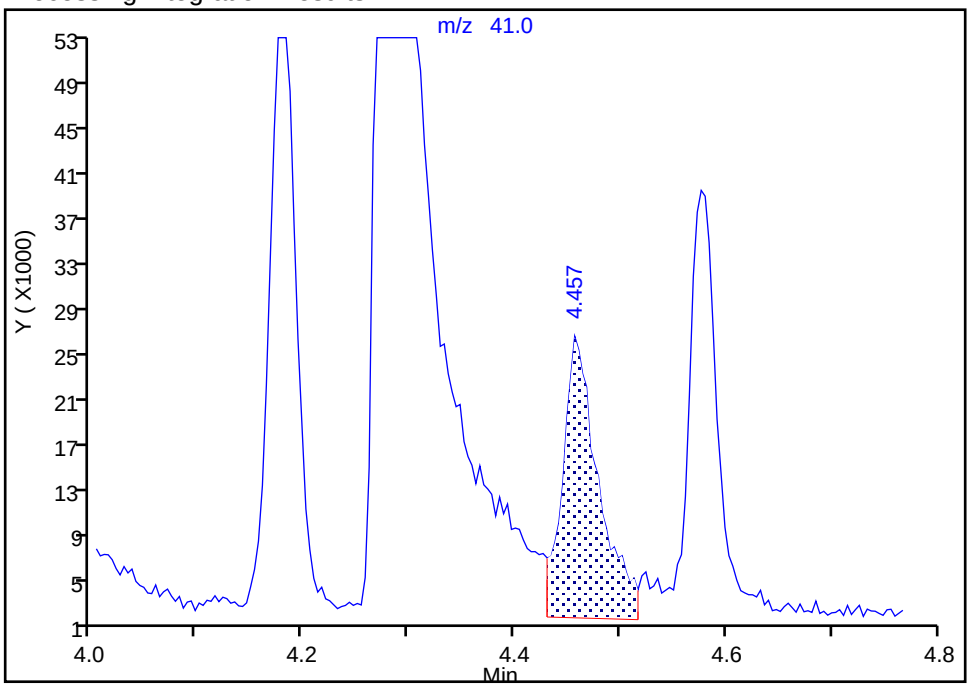
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11767.D				
Injection Date:	09-May-2024 01:21:30	Instrument ID:	VMS_G2		
Lims ID:	STD10				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	5	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

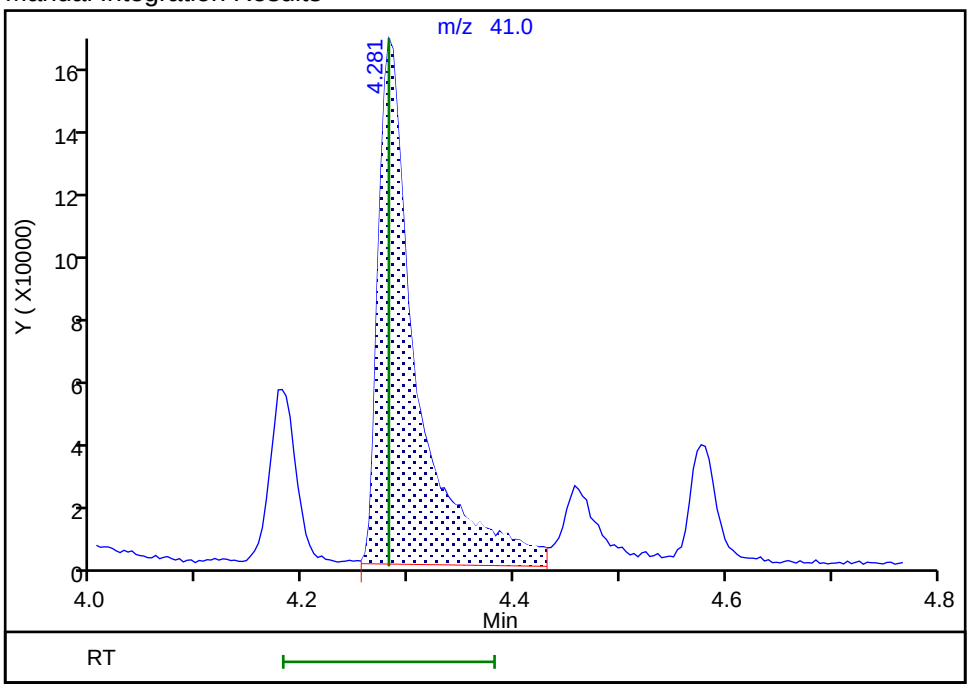
Processing Integration Results

RT: 4.46
Area: 58626
Amount: 199.6947
Amount Units: ug/l



Manual Integration Results

RT: 4.28
Area: 410242
Amount: 315.2783
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 10:56:33 -06:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

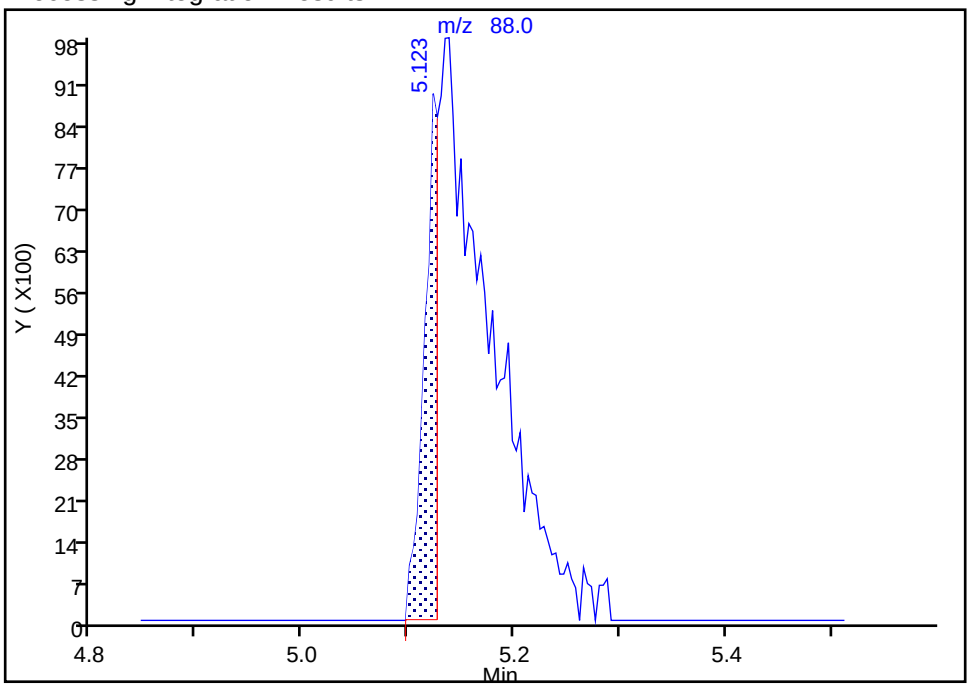
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11767.D				
Injection Date:	09-May-2024 01:21:30	Instrument ID:	VMS_G2		
Lims ID:	STD10				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	5	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

64 1,4-Dioxane, CAS: 123-91-1

Signal: 1

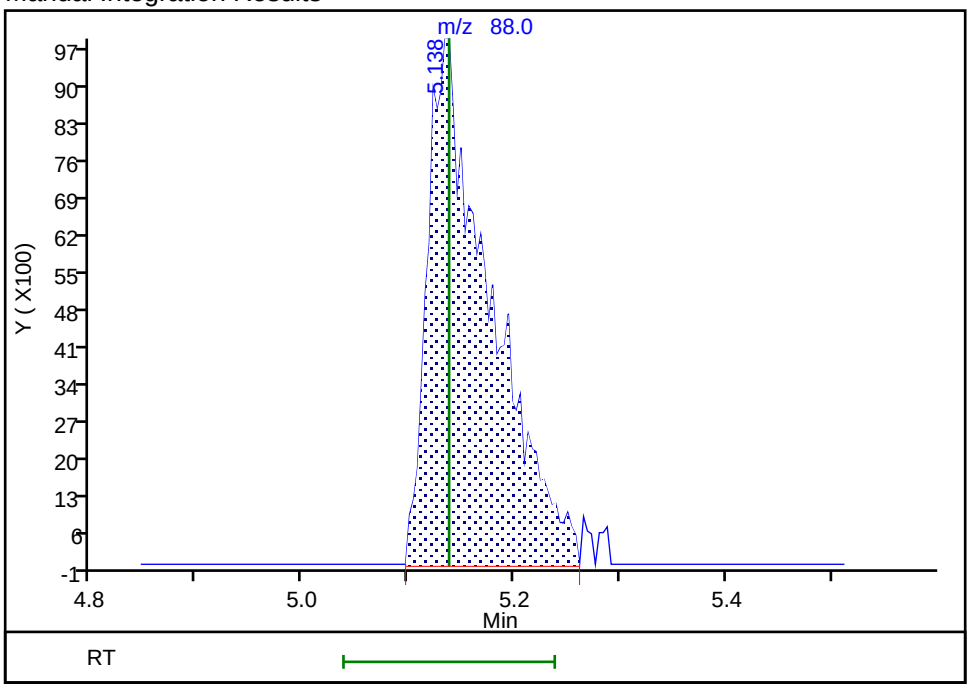
Processing Integration Results

RT: 5.12
Area: 8082
Amount: 153.2372
Amount Units: ug/l



Manual Integration Results

RT: 5.14
Area: 40570
Amount: 227.6752
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 10:56:57 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11768.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 09-May-2024 01:41:30 ALS Bottle#: 6 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS
Operator ID: COULTER/CF Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub62

Method: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 09-May-2024 12:48:19 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: Q2ZS Date: 09-May-2024 10:50:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.595	4.595	0.000	98	1640721	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.077	7.077	0.000	94	347976	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.281	9.281	0.000	95	525930	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.113	4.113	0.000	92	376813	50.0	51.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.363	4.363	0.000	97	631675	50.0	54.1	
$ 6 Toluene-d8 (Surr)	98	5.827	5.827	0.000	96	1630229	50.0	50.4	
$ 7 4-Bromofluorobenzene (Surr)	95	8.166	8.166	0.000	79	581044	50.0	47.8	
9 Dichlorodifluoromethane	85	1.426	1.426	0.000	99	303606	50.0	48.0	
10 Chloromethane	50	1.628	1.628	0.000	100	442667	50.0	46.5	
11 Vinyl chloride	62	1.665	1.665	0.000	98	377033	50.0	50.1	
12 Bromomethane	94	1.912	1.912	0.000	94	116436	50.0	48.4	M
13 Chloroethane	64	1.991	1.991	0.000	99	230435	50.0	48.9	
14 Dichlorofluoromethane	67	2.152	2.152	0.000	99	717023	50.0	55.5	
15 Trichlorofluoromethane	101	2.178	2.178	0.000	99	446347	50.0	45.3	
18 Ethyl ether	59	2.373	2.373	0.000	97	465221	50.0	55.2	
19 Acrolein	56	2.477	2.477	0.000	99	1243095	493.8	582.6	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.541	2.541	0.000	98	234274	50.0	55.6	
21 1,1-Dichloroethene	96	2.545	2.545	0.000	92	344596	50.0	55.7	
22 Acetone	43	2.575	2.575	0.000	98	1642947	200.0	199.9	
23 Iodomethane	142	2.657	2.657	0.000	99	437414	50.0	54.7	
25 Carbon disulfide	76	2.713	2.713	0.000	100	1061837	50.0	55.8	
26 Methyl acetate	43	2.784	2.784	0.000	99	1704488	100.0	104.3	
16 3-Chloro-1-propene	41	2.795	2.795	0.000	87	879419	50.0	56.0	
28 Methylene Chloride	84	2.889	2.889	0.000	96	428001	50.0	48.1	
29 2-Methyl-2-propanol	59	2.941	2.941	0.000	98	2302384	500.0	538.9	
30 Acrylonitrile	53	3.042	3.042	0.000	98	4157900	500.0	554.8	
31 Methyl tert-butyl ether	73	3.057	3.057	0.000	99	1592826	50.0	53.0	
32 trans-1,2-Dichloroethene	96	3.072	3.072	0.000	91	372925	50.0	58.0	
33 Hexane	57	3.256	3.256	0.000	97	662616	50.0	51.6	
34 1,1-Dichloroethane	63	3.372	3.372	0.000	97	912459	50.0	55.0	
35 Vinyl acetate	43	3.364	3.364	0.000	97	2338407	100.0	110.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Butanone (MEK)	43	3.750	3.750	0.000	98	2856434	200.0	220.8	
41 2,2-Dichloropropane	77	3.772	3.772	0.000	91	618643	50.0	52.0	
40 cis-1,2-Dichloroethene	96	3.768	3.768	0.000	91	418838	50.0	57.6	
44 sec-Butyl Alcohol	45	3.869	3.869	0.000	100	4867816	1200.0	1271.8	
46 Chlorobromomethane	128	3.941	3.941	0.000	87	169012	50.0	53.1	
47 Tetrahydrofuran	42	3.948	3.948	0.000	93	1070851	100.0	115.0	
48 Chloroform	83	3.997	3.997	0.000	98	792228	50.0	54.8	
49 1,1,1-Trichloroethane	97	4.128	4.128	0.000	96	656388	50.0	55.4	
50 Cyclohexane	56	4.180	4.180	0.000	98	971390	50.0	53.9	
52 1,1-Dichloropropene	75	4.240	4.240	0.000	87	621426	50.0	54.2	
51 Carbon tetrachloride	117	4.240	4.240	0.000	86	517842	50.0	57.0	
53 Isobutyl alcohol	41	4.277	4.277	0.000	94	1945491	1250.0	1381.1	a
54 Benzene	78	4.386	4.386	0.000	98	1872518	50.0	55.8	
55 1,2-Dichloroethane	62	4.420	4.420	0.000	97	741267	50.0	52.6	
57 n-Heptane	43	4.577	4.577	0.000	98	702645	50.0	51.5	
59 Trichloroethene	95	4.865	4.865	0.000	93	444130	50.0	55.3	
60 2-Pentanone	43	4.977	4.977	0.000	97	4096310	160.0	171.9	
61 Methylcyclohexane	55	5.045	5.045	0.000	97	721586	50.0	52.4	
62 1,2-Dichloropropane	63	5.063	5.063	0.000	93	556068	50.0	54.3	
64 1,4-Dioxane	88	5.127	5.127	0.000	94	198362	1000.0	1006.4	
65 Dibromomethane	93	5.138	5.138	0.000	89	289264	50.0	57.2	
66 Dichlorobromomethane	83	5.262	5.262	0.000	97	631525	50.0	56.6	
68 2-Chloroethyl vinyl ether	63	5.471	5.471	0.000	91	420454	50.0	49.9	
69 cis-1,3-Dichloropropene	75	5.610	5.610	0.000	88	773732	50.0	55.0	
70 4-Methyl-2-pentanone (MIBK)	43	5.711	5.711	0.000	99	5457750	200.0	226.6	
71 Toluene	91	5.883	5.883	0.000	97	1858210	50.0	56.0	
72 trans-1,3-Dichloropropene	75	6.070	6.070	0.000	99	770259	50.0	56.7	
73 Ethyl methacrylate	69	6.096	6.096	0.000	97	902945	50.0	51.8	
74 1,1,2-Trichloroethane	97	6.235	6.235	0.000	96	408032	50.0	54.4	
75 Tetrachloroethene	164	6.317	6.317	0.000	90	287779	50.0	53.2	
76 1,3-Dichloropropane	76	6.377	6.377	0.000	99	815966	50.0	55.2	
77 2-Hexanone	43	6.407	6.407	0.000	99	4543522	200.0	214.3	
78 Chlorodibromomethane	129	6.564	6.564	0.000	89	405836	50.0	54.1	
79 Ethylene Dibromide	107	6.676	6.676	0.000	98	419934	50.0	54.7	
80 1-Chlorohexane	91	7.073	7.073	0.000	79	454860	40.0	41.5	
81 Chlorobenzene	112	7.103	7.103	0.000	88	1056418	50.0	53.5	
82 1,1,1,2-Tetrachloroethane	131	7.178	7.178	0.000	92	379018	50.0	54.1	
83 Ethylbenzene	106	7.185	7.185	0.000	100	586055	50.0	55.8	
84 m-Xylene & p-Xylene	106	7.305	7.305	0.000	98	741802	50.0	57.4	
85 o-Xylene	106	7.657	7.657	0.000	99	709373	50.0	54.7	
86 Styrene	104	7.675	7.675	0.000	93	1204563	50.0	57.1	
87 Bromoform	173	7.847	7.847	0.000	92	279723	50.0	53.5	
88 Isopropylbenzene	105	7.993	7.993	0.000	98	1884706	50.0	52.8	
89 Cyclohexanone	55	8.087	8.087	0.000	98	2350402	1500.0	1592.0	
91 1,1,2,2-Tetrachloroethane	83	8.289	8.289	0.000	96	682273	50.0	49.5	
92 Bromobenzene	156	8.300	8.300	0.000	95	389765	50.0	55.2	
93 trans-1,4-Dichloro-2-butene	53	8.326	8.326	0.000	88	310891	50.0	51.5	
94 1,2,3-Trichloropropane	110	8.345	8.345	0.000	87	228979	50.0	51.7	
95 N-Propylbenzene	120	8.390	8.390	0.000	99	461687	50.0	54.1	
96 2-Chlorotoluene	126	8.480	8.480	0.000	93	388399	50.0	56.3	
97 1,3,5-Trimethylbenzene	105	8.562	8.562	0.000	94	1474097	50.0	52.3	
98 4-Chlorotoluene	126	8.596	8.596	0.000	99	397297	50.0	56.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 tert-Butylbenzene	119	8.865	8.865	0.000	95	1234197	50.0	51.9	
100 1,2,4-Trimethylbenzene	105	8.925	8.925	0.000	99	1474061	50.0	52.5	
101 sec-Butylbenzene	134	9.082	9.082	0.000	96	343852	50.0	56.4	
102 1,3-Dichlorobenzene	146	9.206	9.206	0.000	94	720536	50.0	53.3	
103 4-Isopropyltoluene	119	9.236	9.236	0.000	97	1471092	50.0	52.4	
104 1,4-Dichlorobenzene	146	9.303	9.303	0.000	89	736469	50.0	53.3	
106 n-Butylbenzene	91	9.633	9.633	0.000	99	1372180	50.0	52.8	
107 1,2-Dichlorobenzene	146	9.651	9.651	0.000	95	687319	50.0	52.3	
108 1,2-Dibromo-3-Chloropropane	157	10.426	10.426	0.000	71	192273	50.0	53.6	
110 1,2,4-Trichlorobenzene	180	11.242	11.242	0.000	92	386420	50.0	52.9	
111 Hexachlorobutadiene	225	11.384	11.384	0.000	96	175986	50.0	51.7	
112 Naphthalene	128	11.500	11.500	0.000	98	1454765	50.0	54.5	
113 1,2,3-Trichlorobenzene	180	11.721	11.721	0.000	93	376777	50.0	52.7	
S 115 1,2-Dichloroethene, Total	1				0		100.0	115.6	
S 116 1,3-Dichloropropene, Total	1				0		100.0	111.6	
S 117 Xylenes, Total	106				0		100.0	112.1	
S 119 Trihalomethanes, Total	1				0		200.0	219.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MV-MegaMain B_00102	Amount Added:	25.00	Units: uL	
MV-Gas B_00162	Amount Added:	10.00	Units: uL	
mv-IS_SS_00079	Amount Added:	5.00	Units: uL	Run Reagent

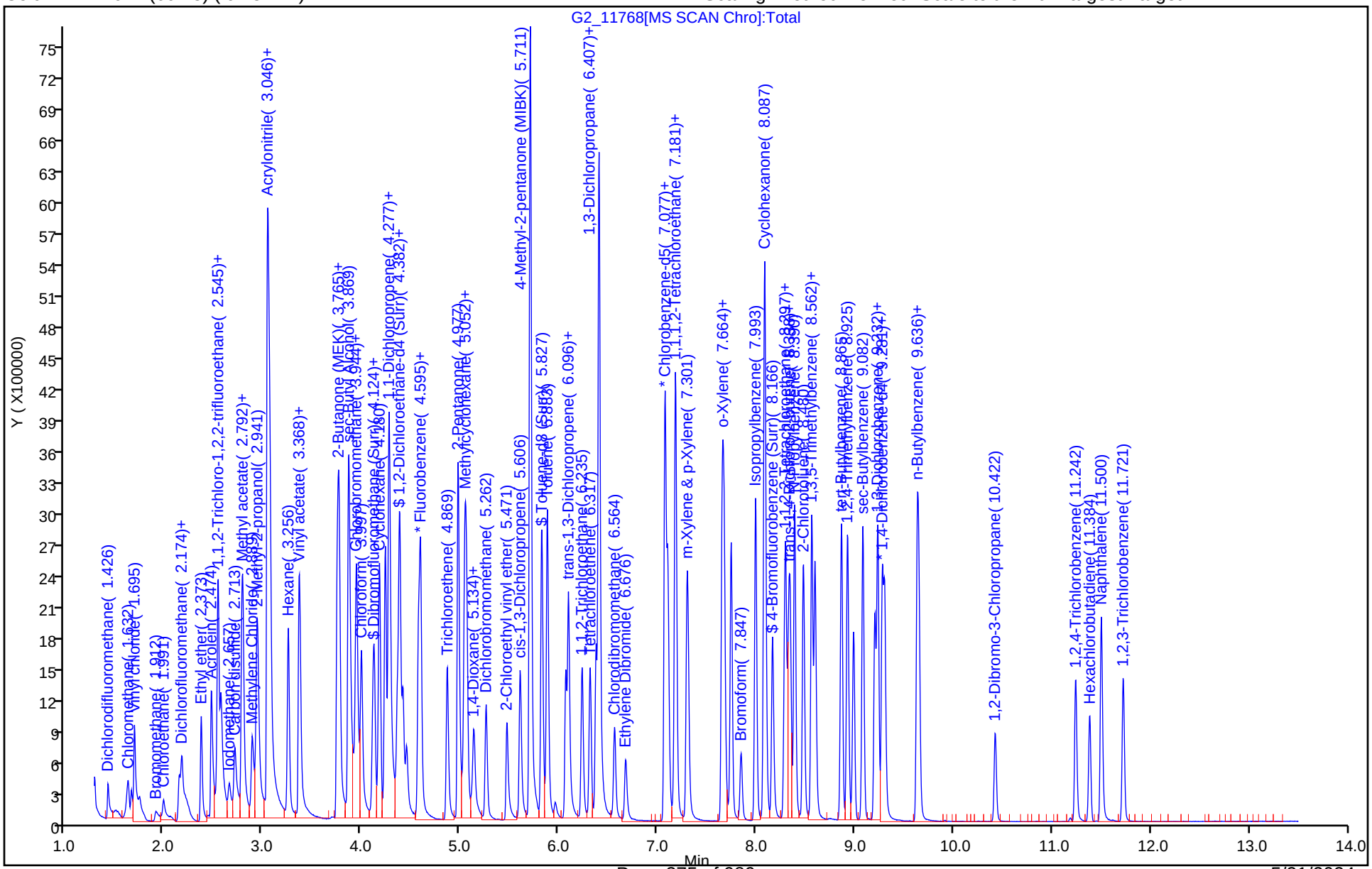
Report Date: 09-May-2024 12:48:20 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11768.D

Injection Date:	09-May-2024 01:41:30	Instrument ID:	VMS_G2	Operator ID:	COULTER/CF
Lims ID:	ICIS			Worklist Smp#:	18
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Denver

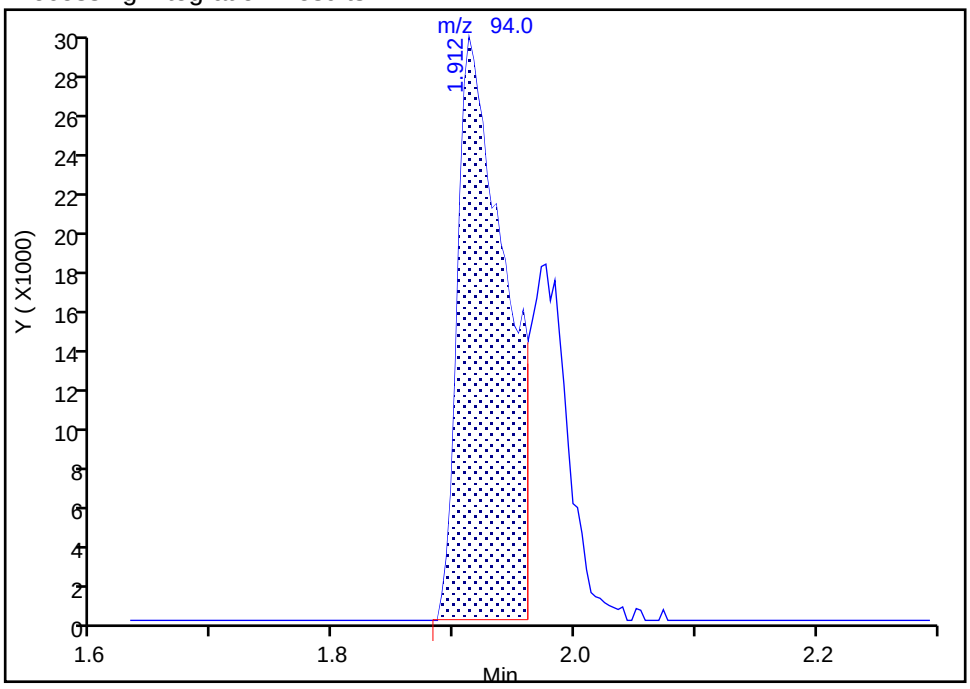
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11768.D				
Injection Date:	09-May-2024 01:41:30	Instrument ID:	VMS_G2		
Lims ID:	ICIS				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	6	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

12 Bromomethane, CAS: 74-83-9

Signal: 1

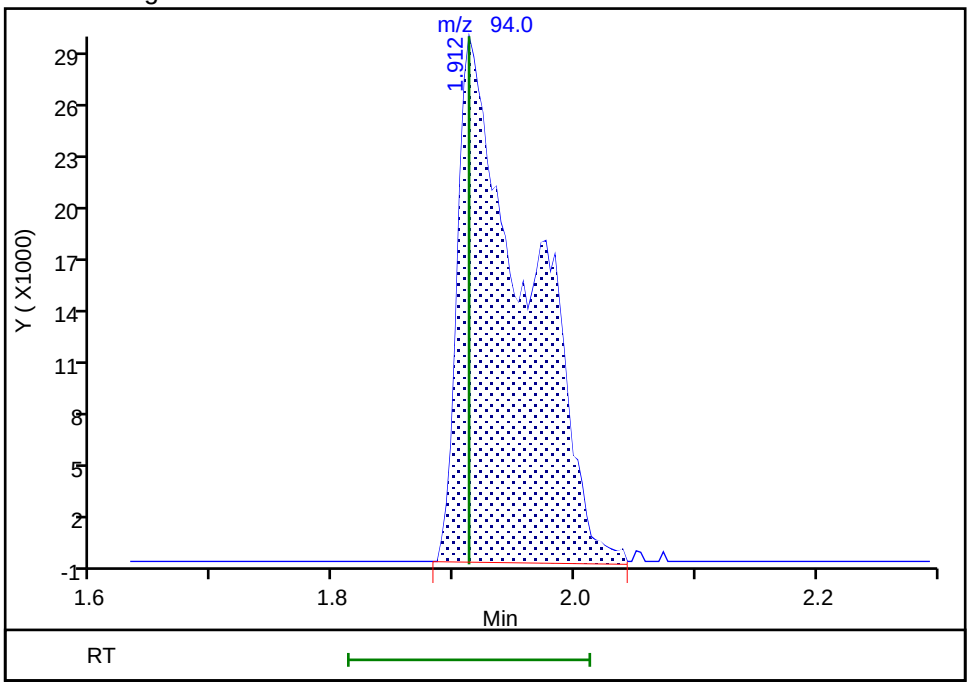
Processing Integration Results

RT: 1.91
Area: 79714
Amount: 40.049899
Amount Units: ug/l



Manual Integration Results

RT: 1.91
Area: 116436
Amount: 48.369021
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:39:26 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

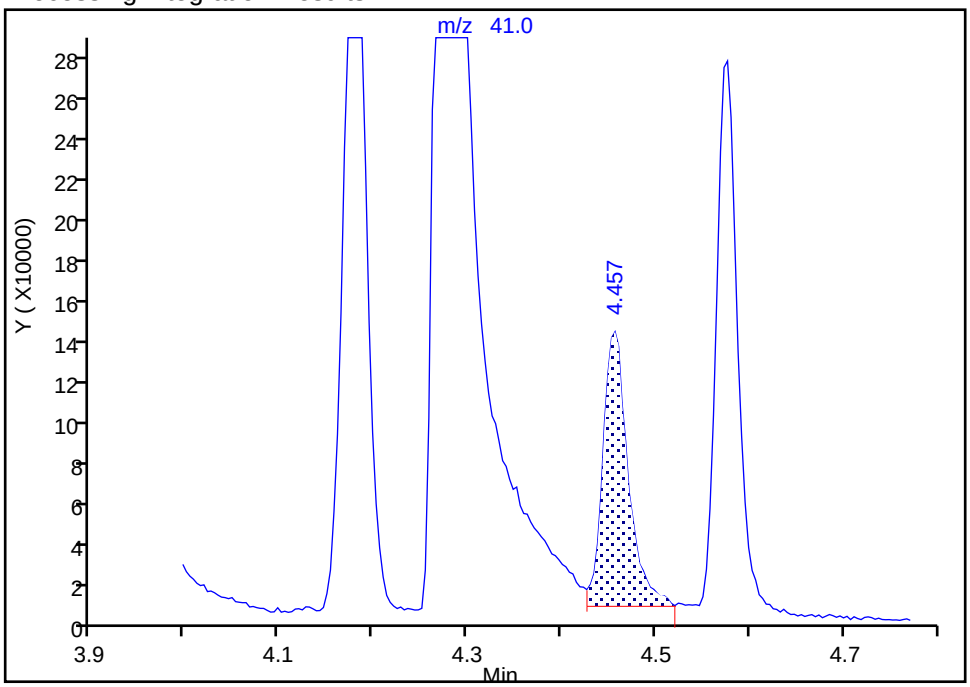
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11768.D				
Injection Date:	09-May-2024 01:41:30	Instrument ID:	VMS_G2		
Lims ID:	ICIS				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	6	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

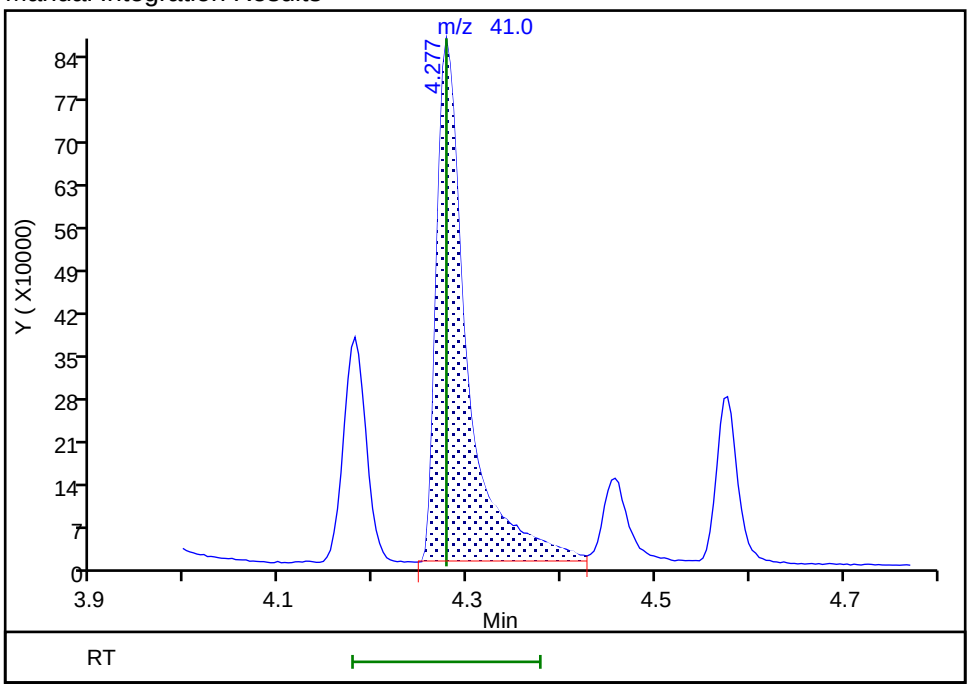
Processing Integration Results

RT: 4.46
Area: 253154
Amount: 1590.2406
Amount Units: ug/l



Manual Integration Results

RT: 4.28
Area: 1945491
Amount: 1381.0968
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 10:53:52 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11769.D
Lims ID: STD75
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 09-May-2024 02:02:30 ALS Bottle#: 7 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD75
Operator ID: COULTER/CF Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub62

Method: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 09-May-2024 12:48:24 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: Q2ZS Date: 09-May-2024 11:38:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.595	4.595	0.000	98	1645380	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.077	7.077	0.000	93	350287	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.281	9.281	0.000	95	527503	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.113	4.113	0.000	91	377772	50.0	51.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.363	4.363	0.000	98	572648	50.0	48.9	
$ 6 Toluene-d8 (Surr)	98	5.827	5.827	0.000	96	1634403	50.0	50.2	
$ 7 4-Bromofluorobenzene (Surr)	95	8.166	8.166	0.000	79	594633	50.0	48.8	
9 Dichlorodifluoromethane	85	1.426	1.426	0.000	99	455649	75.0	71.9	
10 Chloromethane	50	1.632	1.628	0.004	100	737196	75.0	77.3	
11 Vinyl chloride	62	1.665	1.665	0.000	98	610916	75.0	80.9	
12 Bromomethane	94	1.912	1.912	0.000	94	181131	75.0	75.0	M
13 Chloroethane	64	1.991	1.991	0.000	98	357139	75.0	75.6	M
14 Dichlorofluoromethane	67	2.148	2.152	-0.004	99	1131355	75.0	87.3	
15 Trichlorofluoromethane	101	2.174	2.178	-0.004	99	703896	75.0	71.3	
18 Ethyl ether	59	2.373	2.373	0.000	97	661979	75.0	78.3	
19 Acrolein	56	2.474	2.477	-0.003	99	1760065	740.6	822.6	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.541	2.541	0.000	98	300002	75.0	71.0	
21 1,1-Dichloroethene	96	2.545	2.545	0.000	93	446492	75.0	72.0	
22 Acetone	43	2.571	2.575	-0.004	98	2291319	300.0	278.0	
23 Iodomethane	142	2.657	2.657	0.000	99	618862	75.0	77.1	
25 Carbon disulfide	76	2.713	2.713	0.000	100	1389243	75.0	72.8	
26 Methyl acetate	43	2.781	2.784	-0.004	99	2459010	150.0	149.7	
16 3-Chloro-1-propene	41	2.795	2.795	0.000	87	1120415	75.0	71.1	
28 Methylene Chloride	84	2.889	2.889	0.000	95	592345	75.0	66.4	
29 2-Methyl-2-propanol	59	2.941	2.941	0.000	98	3185179	750.0	743.4	
30 Acrylonitrile	53	3.042	3.042	0.000	97	5869404	750.0	779.5	
31 Methyl tert-butyl ether	73	3.057	3.057	0.000	99	2193303	75.0	72.8	
32 trans-1,2-Dichloroethene	96	3.072	3.072	0.000	91	487553	75.0	75.6	
33 Hexane	57	3.256	3.256	0.000	97	849200	75.0	65.7	
35 Vinyl acetate	43	3.361	3.364	-0.003	97	2965068	150.0	140.1	
34 1,1-Dichloroethane	63	3.372	3.372	0.000	97	1242735	75.0	74.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Butanone (MEK)	43	3.750	3.750	0.000	98	3948418	300.0	303.5	
40 cis-1,2-Dichloroethene	96	3.768	3.768	0.000	91	578946	75.0	79.4	
41 2,2-Dichloropropane	77	3.772	3.772	0.000	90	811555	75.0	68.0	
44 sec-Butyl Alcohol	45	3.869	3.869	0.000	100	6783739	1800.0	1761.4	
46 Chlorobromomethane	128	3.941	3.941	0.000	86	236231	75.0	73.7	
47 Tetrahydrofuran	42	3.948	3.948	0.000	93	1431361	150.0	153.3	
48 Chloroform	83	3.997	3.997	0.000	98	1073805	75.0	74.1	
49 1,1,1-Trichloroethane	97	4.124	4.128	-0.004	96	870739	75.0	73.3	
50 Cyclohexane	56	4.180	4.180	0.000	98	1250324	75.0	69.2	
52 1,1-Dichloropropene	75	4.240	4.240	0.000	87	812894	75.0	70.5	
51 Carbon tetrachloride	117	4.240	4.240	0.000	86	679877	75.0	74.6	
53 Isobutyl alcohol	41	4.277	4.277	0.000	94	2738178	1875.0	1934.1	a
54 Benzene	78	4.382	4.386	-0.004	99	2504830	75.0	74.4	
55 1,2-Dichloroethane	62	4.416	4.420	-0.004	97	1063848	75.0	75.2	
57 n-Heptane	43	4.577	4.577	0.000	98	946242	75.0	69.2	
59 Trichloroethene	95	4.869	4.865	0.004	93	604247	75.0	74.7	
60 2-Pentanone	43	4.977	4.977	0.000	97	5787861	240.0	241.4	
61 Methylcyclohexane	55	5.045	5.045	0.000	97	955008	75.0	69.2	
62 1,2-Dichloropropane	63	5.063	5.063	0.000	94	763606	75.0	74.4	
64 1,4-Dioxane	88	5.119	5.127	-0.008	96	250811	1500.0	1265.4	
65 Dibromomethane	93	5.134	5.138	-0.004	89	407640	75.0	80.4	
66 Dichlorobromomethane	83	5.262	5.262	0.000	97	880668	75.0	78.7	
68 2-Chloroethyl vinyl ether	63	5.471	5.471	0.000	91	651631	75.0	76.5	
69 cis-1,3-Dichloropropene	75	5.606	5.610	-0.004	88	1075106	75.0	75.9	
70 4-Methyl-2-pentanone (MIBK)	43	5.707	5.711	-0.004	99	7551598	300.0	312.7	
71 Toluene	91	5.883	5.883	0.000	97	2517190	75.0	75.7	
72 trans-1,3-Dichloropropene	75	6.070	6.070	0.000	99	1102505	75.0	80.9	
73 Ethyl methacrylate	69	6.096	6.096	0.000	97	1299489	75.0	73.8	
74 1,1,2-Trichloroethane	97	6.235	6.235	0.000	95	581757	75.0	77.4	
75 Tetrachloroethene	164	6.317	6.317	0.000	90	383789	75.0	70.3	
76 1,3-Dichloropropane	76	6.377	6.377	0.000	98	1145407	75.0	76.9	
77 2-Hexanone	43	6.407	6.407	0.000	99	6325814	300.0	295.7	
78 Chlorodibromomethane	129	6.564	6.564	0.000	89	588049	75.0	77.9	
79 Ethylene Dibromide	107	6.676	6.676	0.000	98	599701	75.0	77.6	
80 1-Chlorohexane	91	7.073	7.073	0.000	86	605608	60.0	54.9	
81 Chlorobenzene	112	7.103	7.103	0.000	87	1472837	75.0	74.1	
82 1,1,1,2-Tetrachloroethane	131	7.174	7.178	-0.004	92	525401	75.0	74.5	
83 Ethylbenzene	106	7.185	7.185	0.000	99	779060	75.0	73.8	
84 m-Xylene & p-Xylene	106	7.301	7.305	-0.004	97	979166	75.0	75.3	
85 o-Xylene	106	7.653	7.657	-0.004	97	976183	75.0	74.8	
86 Styrene	104	7.675	7.675	0.000	93	1719718	75.0	80.9	
87 Bromoform	173	7.847	7.847	0.000	93	422030	75.0	80.1	
88 Isopropylbenzene	105	7.993	7.993	0.000	98	2555729	75.0	71.4	
89 Cyclohexanone	55	8.087	8.087	0.000	98	3250136	2250.0	2186.9	
91 1,1,2,2-Tetrachloroethane	83	8.289	8.289	0.000	96	956028	75.0	69.2	
92 Bromobenzene	156	8.300	8.300	0.000	96	551864	75.0	78.0	
93 trans-1,4-Dichloro-2-butene	53	8.327	8.326	0.000	86	455827	75.0	75.3	
94 1,2,3-Trichloropropane	110	8.345	8.345	0.000	89	328031	75.0	73.9	
95 N-Propylbenzene	120	8.390	8.390	0.000	100	637353	75.0	74.5	
96 2-Chlorotoluene	126	8.480	8.480	0.000	93	542515	75.0	78.3	
97 1,3,5-Trimethylbenzene	105	8.562	8.562	0.000	94	2044794	75.0	72.4	
98 4-Chlorotoluene	126	8.596	8.596	0.000	99	558261	75.0	79.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 tert-Butylbenzene	119	8.865	8.865	0.000	95	1677608	75.0	70.4	
100 1,2,4-Trimethylbenzene	105	8.925	8.925	0.000	99	2040247	75.0	72.5	
101 sec-Butylbenzene	134	9.082	9.082	0.000	97	471206	75.0	77.0	
102 1,3-Dichlorobenzene	146	9.202	9.206	-0.004	94	1034325	75.0	76.2	
103 4-Isopropyltoluene	119	9.232	9.236	-0.004	97	2006210	75.0	71.3	
104 1,4-Dichlorobenzene	146	9.303	9.303	0.000	89	1034214	75.0	74.6	
106 n-Butylbenzene	91	9.633	9.633	0.001	99	1888494	75.0	72.5	
107 1,2-Dichlorobenzene	146	9.651	9.651	0.000	92	992149	75.0	75.3	
108 1,2-Dibromo-3-Chloropropane	157	10.426	10.426	0.000	71	276735	75.0	76.9	
110 1,2,4-Trichlorobenzene	180	11.238	11.242	-0.004	93	566072	75.0	77.2	
111 Hexachlorobutadiene	225	11.384	11.384	0.000	97	240411	75.0	70.4	
112 Naphthalene	128	11.500	11.500	0.000	98	2126607	75.0	79.5	
113 1,2,3-Trichlorobenzene	180	11.721	11.721	0.000	92	552941	75.0	77.1	
S 115 1,2-Dichloroethene, Total	1				0		150.0	155.0	
S 116 1,3-Dichloropropene, Total	1				0		150.0	156.8	
S 117 Xylenes, Total	106				0		150.0	150.1	
S 118 Total BTEX	1				0			373.9	
S 119 Trihalomethanes, Total	1				0		300.0	310.8	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MV-MegaMain B_00102	Amount Added: 37.50	Units: uL	
MV-Gas B_00162	Amount Added: 15.00	Units: uL	
mv-IS_SS_00079	Amount Added: 5.00	Units: uL	Run Reagent

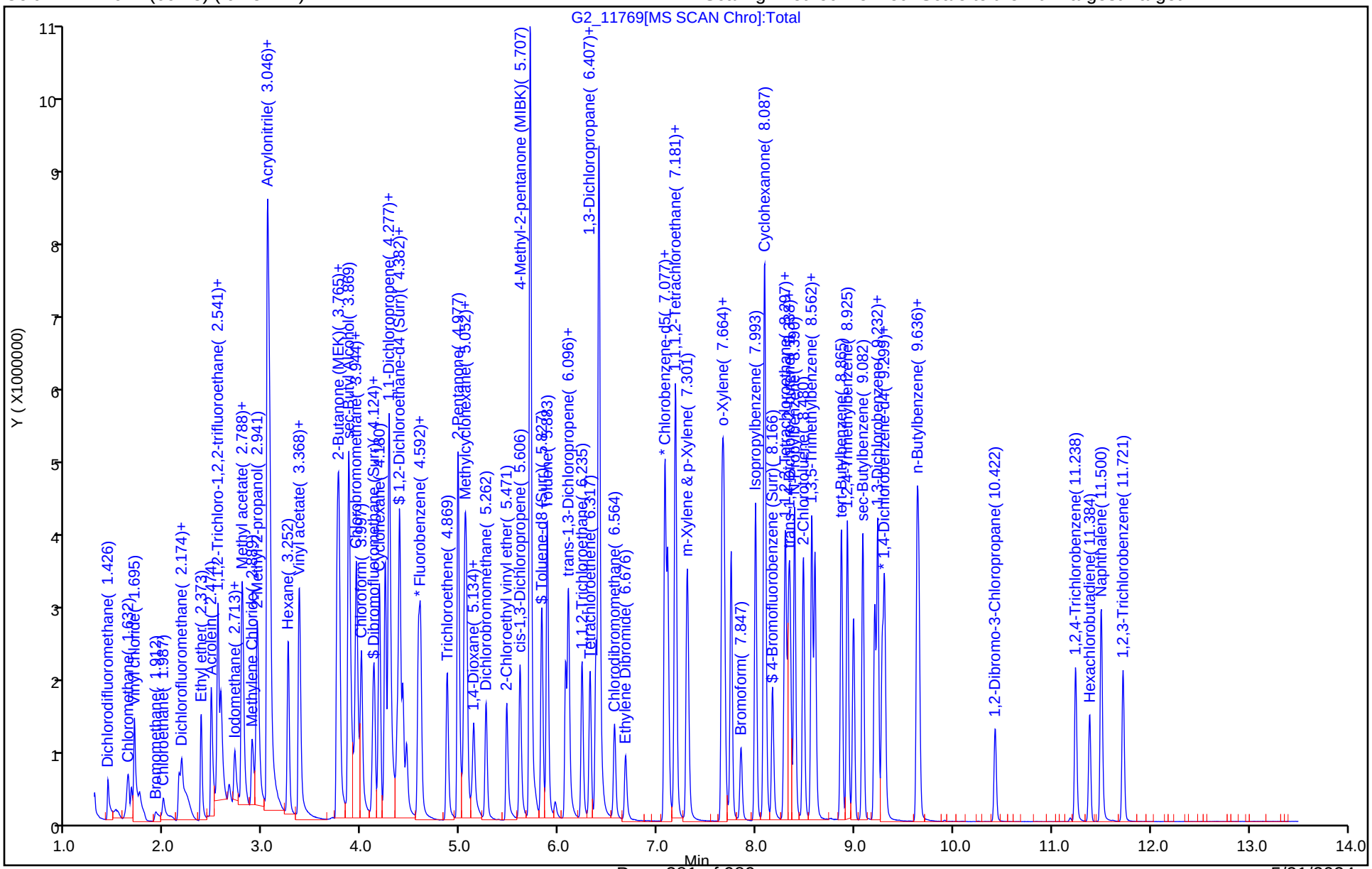
Report Date: 09-May-2024 12:48:26 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11769.D

Injection Date:	09-May-2024 02:02:30	Instrument ID:	VMS_G2	Operator ID:	COULTER/CF
Lims ID:	STD75			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

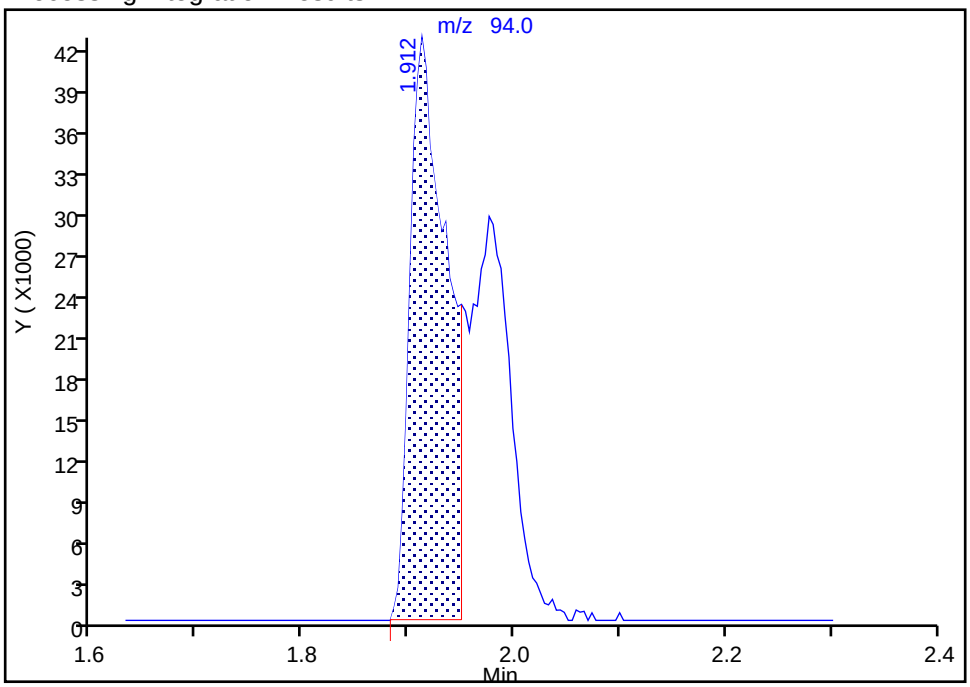
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11769.D
Injection Date: 09-May-2024 02:02:30 Instrument ID: VMS_G2
Lims ID: STD75
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 7 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

12 Bromomethane, CAS: 74-83-9

Signal: 1

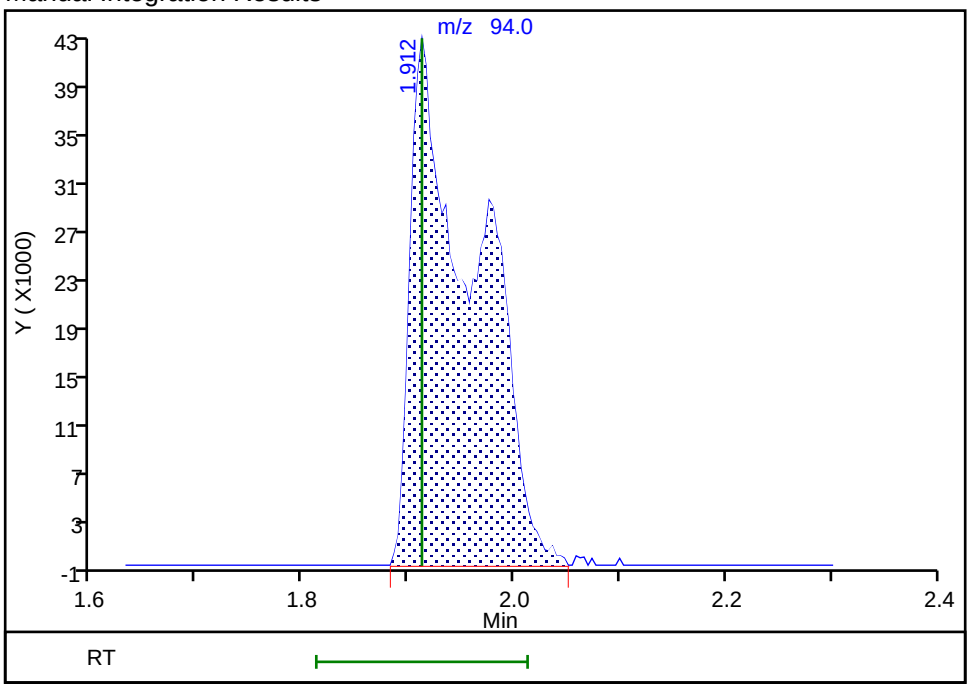
Processing Integration Results

RT: 1.91
Area: 102430
Amount: 49.296026
Amount Units: ug/l



Manual Integration Results

RT: 1.91
Area: 181131
Amount: 75.031103
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:40:02 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

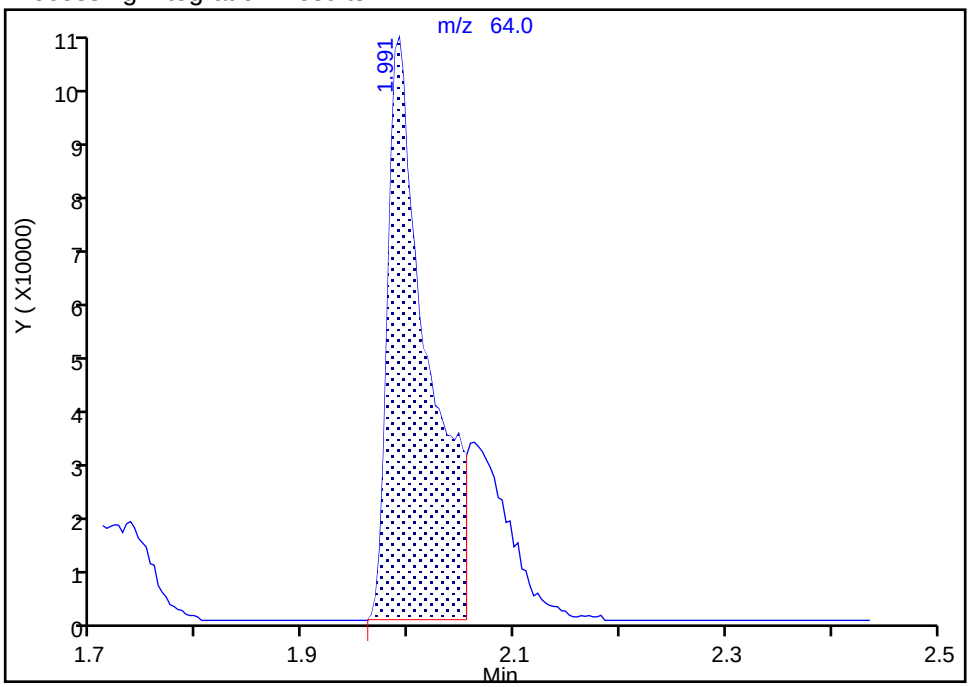
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11769.D
Injection Date: 09-May-2024 02:02:30 Instrument ID: VMS_G2
Lims ID: STD75
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 7 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

13 Chloroethane, CAS: 75-00-3

Signal: 1

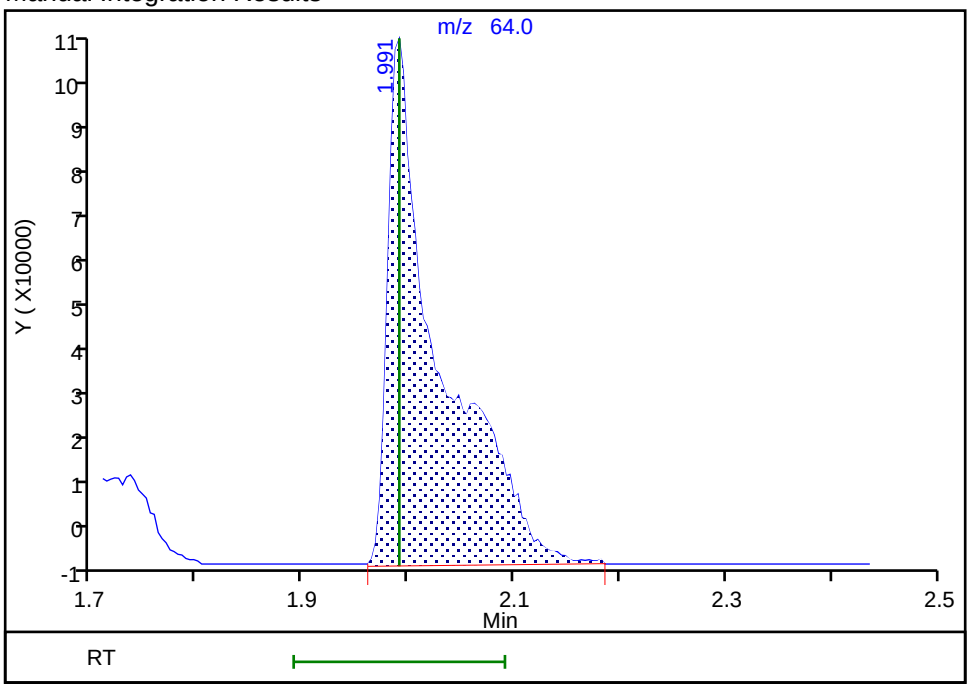
Processing Integration Results

RT: 1.99
Area: 271926
Amount: 37.366810
Amount Units: ug/l



Manual Integration Results

RT: 1.99
Area: 357139
Amount: 75.588688
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:43:52 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

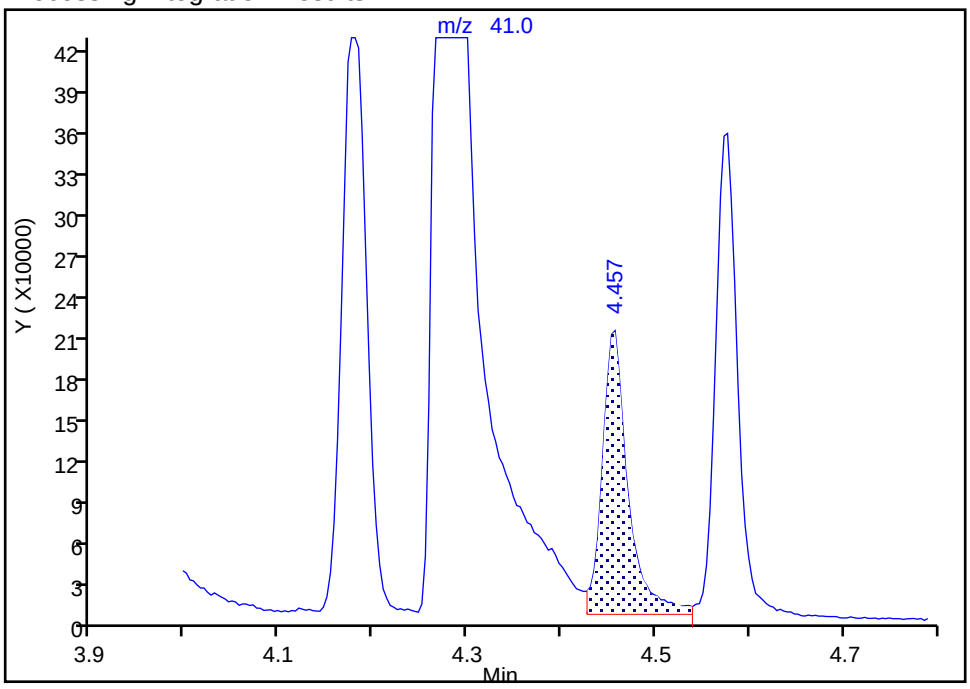
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11769.D
Injection Date: 09-May-2024 02:02:30 Instrument ID: VMS_G2
Lims ID: STD75
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 7 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

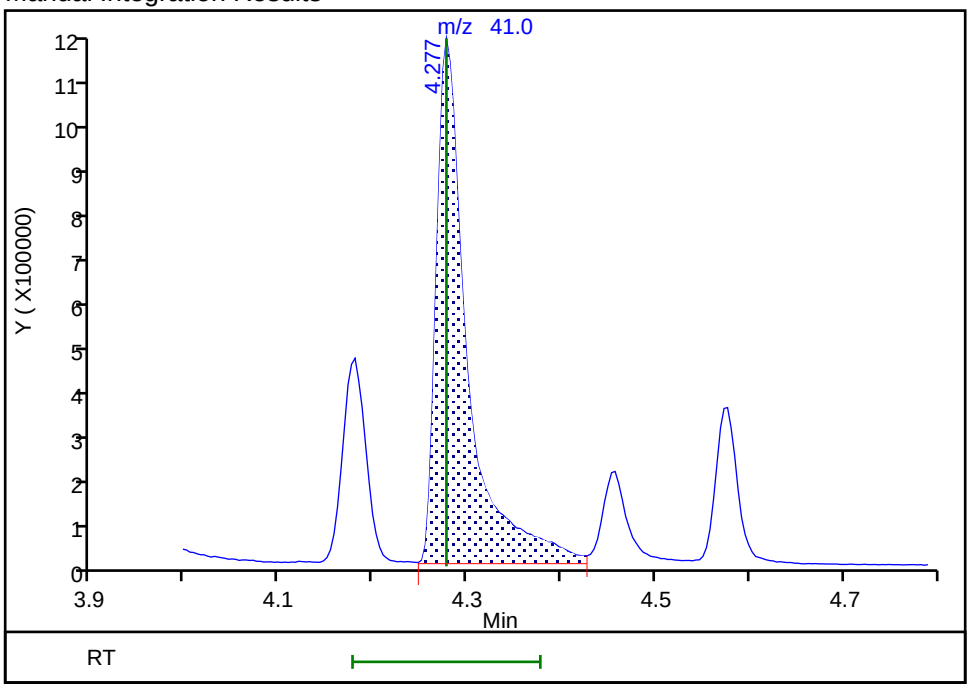
Processing Integration Results

RT: 4.46
Area: 396959
Amount: 516.7658
Amount Units: ug/l



Manual Integration Results

RT: 4.28
Area: 2738178
Amount: 1934.0982
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:23:10 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11770.D
Lims ID: STD100
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 09-May-2024 02:22:30 ALS Bottle#: 8 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD100
Operator ID: COULTER/CF Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub62

Method: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 09-May-2024 12:48:30 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: Q2ZS Date: 09-May-2024 11:38:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.595	4.595	0.000	98	1692264	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.077	7.077	0.000	93	351468	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.277	9.281	-0.004	95	545579	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.109	4.113	-0.004	92	384458	50.0	50.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.360	4.363	-0.003	99	589157	50.0	48.9	
$ 6 Toluene-d8 (Surr)	98	5.827	5.827	0.000	95	1679232	50.0	51.4	
$ 7 4-Bromofluorobenzene (Surr)	95	8.166	8.166	0.000	79	605331	50.0	48.1	
9 Dichlorodifluoromethane	85	1.426	1.426	0.000	99	656218	100.0	100.6	
10 Chloromethane	50	1.632	1.628	0.004	100	994100	100.0	101.3	
11 Vinyl chloride	62	1.665	1.665	0.000	99	835180	100.0	107.5	
12 Bromomethane	94	1.909	1.912	-0.003	94	236489	100.0	95.2	M
13 Chloroethane	64	1.987	1.991	-0.004	98	460419	100.0	94.7	
14 Dichlorofluoromethane	67	2.148	2.152	-0.004	99	1508935	100.0	113.2	
15 Trichlorofluoromethane	101	2.174	2.178	-0.004	99	982792	100.0	96.8	
18 Ethyl ether	59	2.369	2.373	-0.004	97	967104	100.0	111.2	
19 Acrolein	56	2.474	2.477	-0.003	99	2461079	987.5	1118.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.541	2.541	0.000	97	484141	100.0	111.3	
21 1,1-Dichloroethene	96	2.545	2.545	0.000	92	691095	100.0	108.3	
22 Acetone	43	2.571	2.575	-0.004	98	3321477	400.0	391.9	
23 Iodomethane	142	2.657	2.657	0.000	99	952028	100.0	115.4	
25 Carbon disulfide	76	2.713	2.713	0.000	100	2142338	100.0	109.1	
26 Methyl acetate	43	2.781	2.784	-0.004	99	3541578	200.0	209.2	
16 3-Chloro-1-propene	41	2.795	2.795	0.000	86	1626574	100.0	100.4	
28 Methylene Chloride	84	2.889	2.889	0.000	95	871734	100.0	95.1	
29 2-Methyl-2-propanol	59	2.941	2.941	0.000	98	4295885	1000.0	974.9	
30 Acrylonitrile	53	3.042	3.042	0.000	97	8079105	1000.0	1042.1	
31 Methyl tert-butyl ether	73	3.057	3.057	0.000	99	3106556	100.0	100.2	
32 trans-1,2-Dichloroethene	96	3.072	3.072	0.000	91	730878	100.0	110.2	
33 Hexane	57	3.252	3.256	-0.004	96	1388315	100.0	107.1	
35 Vinyl acetate	43	3.361	3.364	-0.003	97	5046262	200.0	231.9	
34 1,1-Dichloroethane	63	3.372	3.372	0.000	97	1835406	100.0	107.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Butanone (MEK)	43	3.750	3.750	0.000	98	5564411	400.0	415.1	
40 cis-1,2-Dichloroethene	96	3.768	3.768	0.000	91	851838	100.0	113.6	
41 2,2-Dichloropropane	77	3.772	3.772	0.000	90	1229208	100.0	100.2	
44 sec-Butyl Alcohol	45	3.869	3.869	0.000	100	9177229	2400.0	2312.1	
46 Chlorobromomethane	128	3.941	3.941	0.000	87	346869	100.0	104.9	
47 Tetrahydrofuran	42	3.948	3.948	0.000	93	2162651	200.0	225.2	
48 Chloroform	83	3.997	3.997	0.000	98	1613671	100.0	108.2	
49 1,1,1-Trichloroethane	97	4.124	4.128	-0.004	96	1355847	100.0	111.0	
50 Cyclohexane	56	4.180	4.180	0.000	98	1994368	100.0	107.4	
52 1,1-Dichloropropene	75	4.240	4.240	0.000	87	1272879	100.0	107.2	
51 Carbon tetrachloride	117	4.240	4.240	0.000	86	1070724	100.0	114.2	
53 Isobutyl alcohol	41	4.281	4.277	0.004	94	3801872	2500.0	2607.4	a
54 Benzene	78	4.382	4.386	-0.004	99	3779042	100.0	109.1	
55 1,2-Dichloroethane	62	4.420	4.420	0.000	97	1537608	100.0	105.7	
57 n-Heptane	43	4.573	4.577	-0.004	98	1464844	100.0	104.1	
59 Trichloroethene	95	4.865	4.865	0.000	93	902611	100.0	111.2	
60 2-Pentanone	43	4.977	4.977	0.000	97	7859780	320.0	318.0	
61 Methylcyclohexane	55	5.045	5.045	0.000	97	1510680	100.0	106.4	
62 1,2-Dichloropropane	63	5.063	5.063	0.000	94	1121625	100.0	106.2	
64 1,4-Dioxane	88	5.123	5.127	-0.004	95	428038	2000.0	2090.9	
65 Dibromomethane	93	5.134	5.138	-0.004	89	598081	100.0	114.7	
66 Dichlorobromomethane	83	5.262	5.262	0.000	97	1313504	100.0	114.1	
68 2-Chloroethyl vinyl ether	63	5.471	5.471	0.000	91	908709	100.0	103.3	
69 cis-1,3-Dichloropropene	75	5.606	5.610	-0.004	88	1584596	100.0	111.4	
70 4-Methyl-2-pentanone (MIBK)	43	5.707	5.711	-0.004	99	10023558	400.0	403.6	
71 Toluene	91	5.883	5.883	0.000	97	3731169	100.0	109.1	
72 trans-1,3-Dichloropropene	75	6.066	6.070	-0.004	99	1585645	100.0	113.1	
73 Ethyl methacrylate	69	6.096	6.096	0.000	97	1809078	100.0	102.3	
74 1,1,2-Trichloroethane	97	6.235	6.235	0.000	95	829300	100.0	107.2	
75 Tetrachloroethene	164	6.317	6.317	0.000	92	588098	100.0	107.2	
76 1,3-Dichloropropane	76	6.377	6.377	0.000	97	1640349	100.0	109.8	
77 2-Hexanone	43	6.407	6.407	0.000	99	8343603	400.0	388.2	
78 Chlorodibromomethane	129	6.564	6.564	0.000	89	851580	100.0	112.5	
79 Ethylene Dibromide	107	6.676	6.676	0.000	97	854020	100.0	110.2	
80 1-Chlorohexane	91	7.073	7.073	0.000	89	934247	80.0	84.4	
81 Chlorobenzene	112	7.103	7.103	0.000	88	2115398	100.0	106.1	
82 1,1,1,2-Tetrachloroethane	131	7.178	7.178	0.000	92	744814	100.0	105.3	
83 Ethylbenzene	106	7.181	7.185	-0.004	99	1150538	100.0	108.6	
84 m-Xylene & p-Xylene	106	7.301	7.305	-0.004	97	1471353	100.0	112.8	
85 o-Xylene	106	7.657	7.657	0.000	98	1411417	100.0	107.7	
86 Styrene	104	7.672	7.675	-0.003	92	2436767	100.0	114.3	
87 Bromoform	173	7.844	7.847	-0.003	92	591054	100.0	111.9	
88 Isopropylbenzene	105	7.993	7.993	0.000	98	3777980	100.0	102.0	
89 Cyclohexanone	55	8.087	8.087	0.000	98	4340164	3000.0	2910.6	
91 1,1,2,2-Tetrachloroethane	83	8.289	8.289	0.000	96	1345801	100.0	94.2	
92 Bromobenzene	156	8.300	8.300	0.000	95	783354	100.0	107.0	
93 trans-1,4-Dichloro-2-butene	53	8.326	8.326	0.000	82	626815	100.0	100.1	
94 1,2,3-Trichloropropane	110	8.345	8.345	0.000	88	450495	100.0	98.1	
95 N-Propylbenzene	120	8.390	8.390	0.000	99	945126	100.0	106.8	
96 2-Chlorotoluene	126	8.480	8.480	0.000	93	792057	100.0	110.6	
97 1,3,5-Trimethylbenzene	105	8.562	8.562	0.000	93	2986640	100.0	102.2	
98 4-Chlorotoluene	126	8.596	8.596	0.000	99	802274	100.0	110.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 tert-Butylbenzene	119	8.865	8.865	0.000	94	2468188	100.0	100.1	
100 1,2,4-Trimethylbenzene	105	8.925	8.925	0.000	99	2988894	100.0	102.7	
101 sec-Butylbenzene	134	9.082	9.082	0.000	96	697172	100.0	110.2	
102 1,3-Dichlorobenzene	146	9.202	9.206	-0.004	94	1483600	100.0	105.7	
103 4-Isopropyltoluene	119	9.232	9.236	-0.004	97	2956670	100.0	101.6	
104 1,4-Dichlorobenzene	146	9.303	9.303	0.000	89	1521406	100.0	106.2	
106 n-Butylbenzene	91	9.633	9.633	0.001	99	2799022	100.0	103.9	
107 1,2-Dichlorobenzene	146	9.648	9.651	-0.003	92	1376939	100.0	101.0	
108 1,2-Dibromo-3-Chloropropane	157	10.422	10.426	-0.004	71	384678	100.0	103.4	
110 1,2,4-Trichlorobenzene	180	11.238	11.242	-0.004	93	815841	100.0	107.6	
111 Hexachlorobutadiene	225	11.380	11.384	-0.004	97	361616	100.0	102.4	
112 Naphthalene	128	11.500	11.500	0.000	98	2997814	100.0	108.3	
113 1,2,3-Trichlorobenzene	180	11.721	11.721	0.000	91	794461	100.0	107.1	
S 115 1,2-Dichloroethene, Total	1				0		200.0	223.8	
S 116 1,3-Dichloropropene, Total	1				0		200.0	224.6	
S 117 Xylenes, Total	106				0		200.0	220.5	
S 118 Total BTEX	1				0			547.3	
S 119 Trihalomethanes, Total	1				0		400.0	446.6	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MV-MegaMain B_00102	Amount Added: 50.00	Units: uL	
MV-Gas B_00162	Amount Added: 20.00	Units: uL	
mv-IS_SS_00079	Amount Added: 5.00	Units: uL	Run Reagent

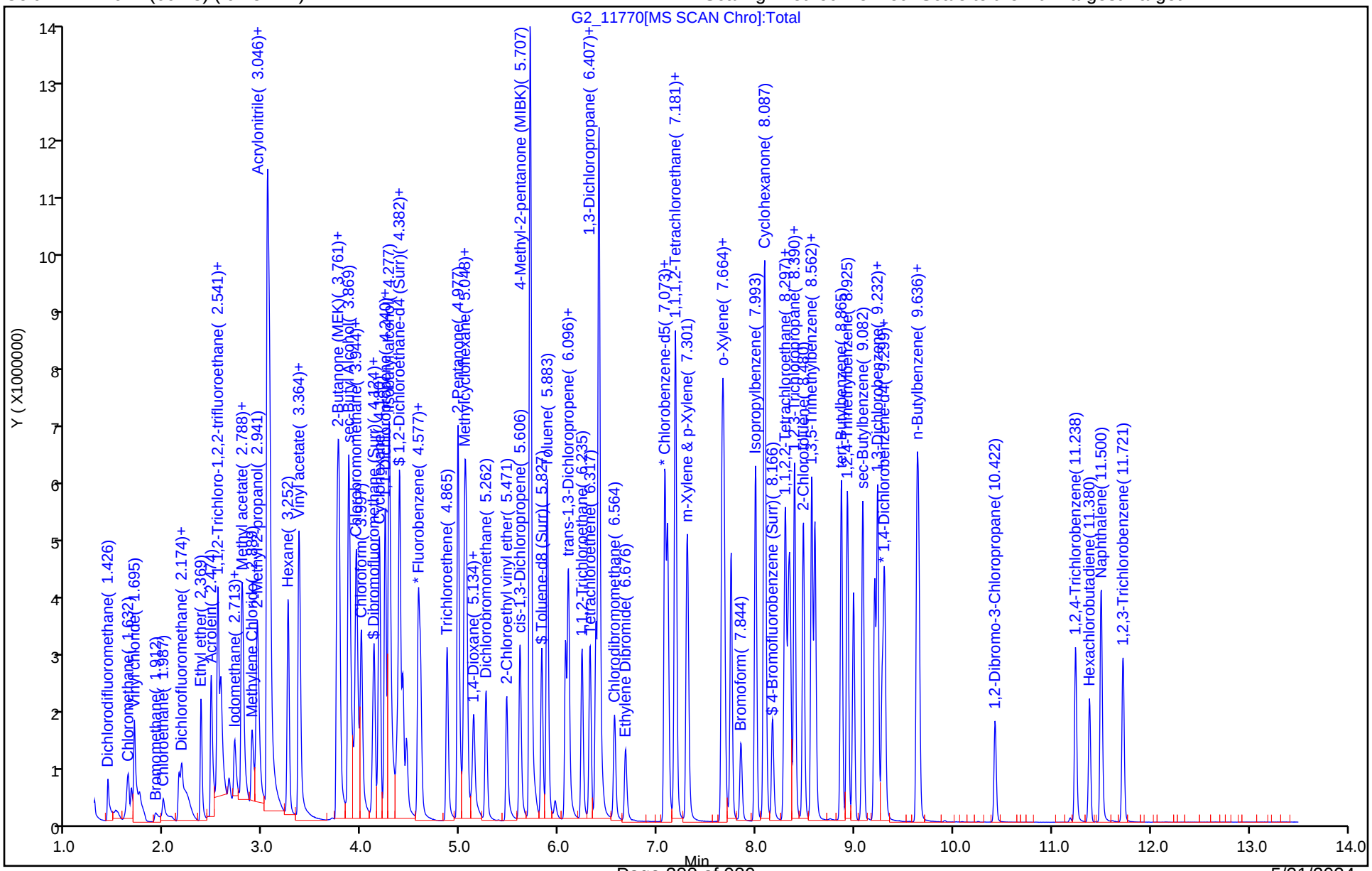
Report Date: 09-May-2024 12:48:31 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11770.D

Injection Date:	09-May-2024 02:22:30	Instrument ID:	VMS_G2	Operator ID:	COULTER/CF
Lims ID:	STD100			Worklist Smp#:	20
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Denver

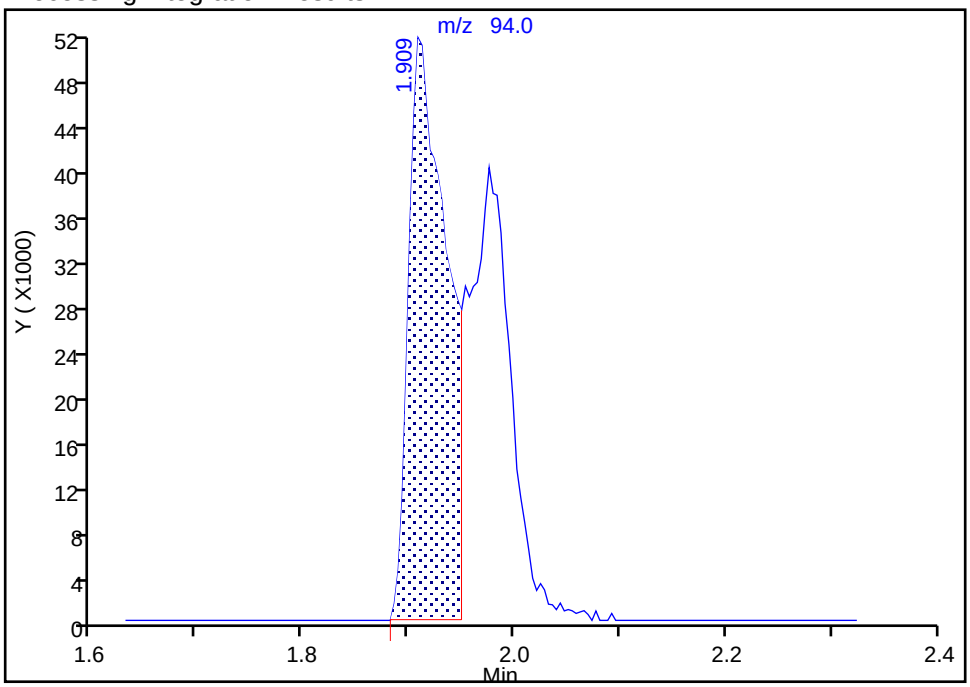
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11770.D				
Injection Date:	09-May-2024 02:22:30	Instrument ID:	VMS_G2		
Lims ID:	STD100				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	8	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

12 Bromomethane, CAS: 74-83-9

Signal: 1

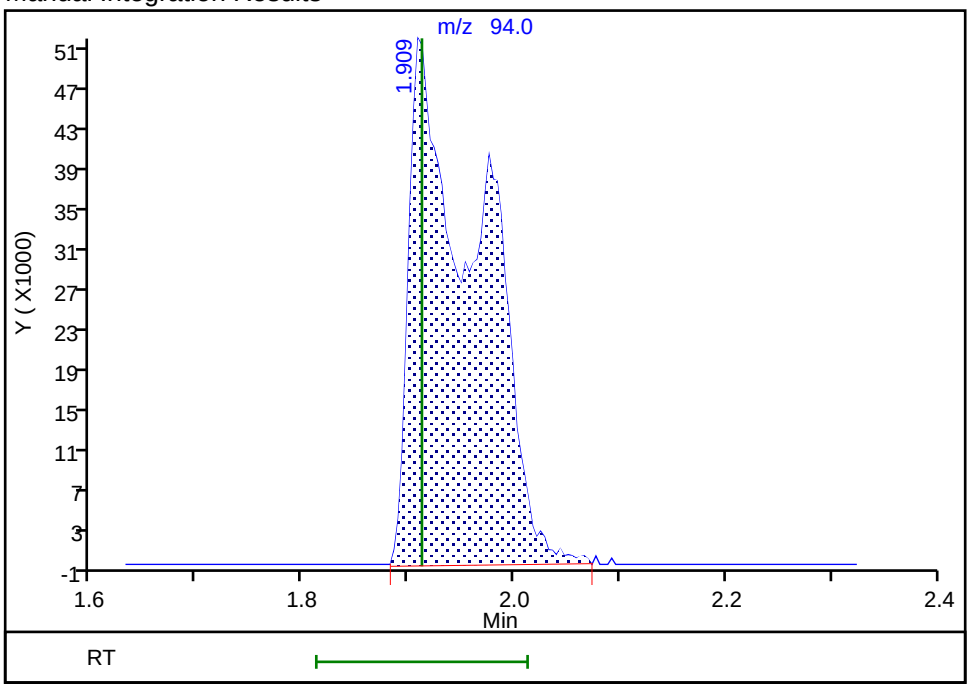
Processing Integration Results

RT: 1.91
Area: 129951
Amount: 57.577419
Amount Units: ug/l



Manual Integration Results

RT: 1.91
Area: 236489
Amount: 95.248378
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:40:30 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

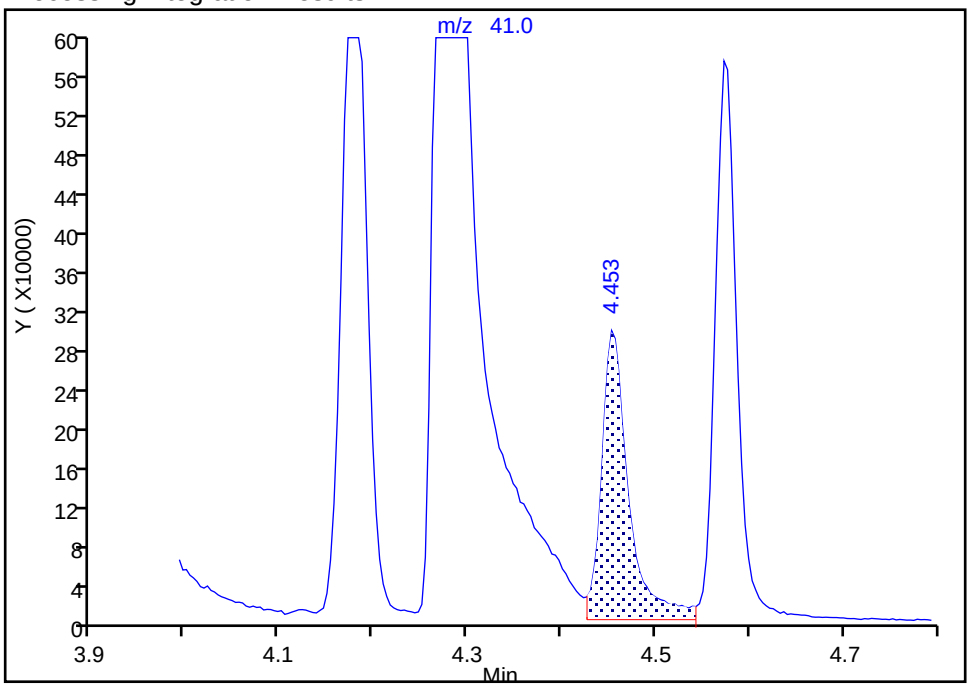
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11770.D
Injection Date: 09-May-2024 02:22:30 Instrument ID: VMS_G2
Lims ID: STD100
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 8 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

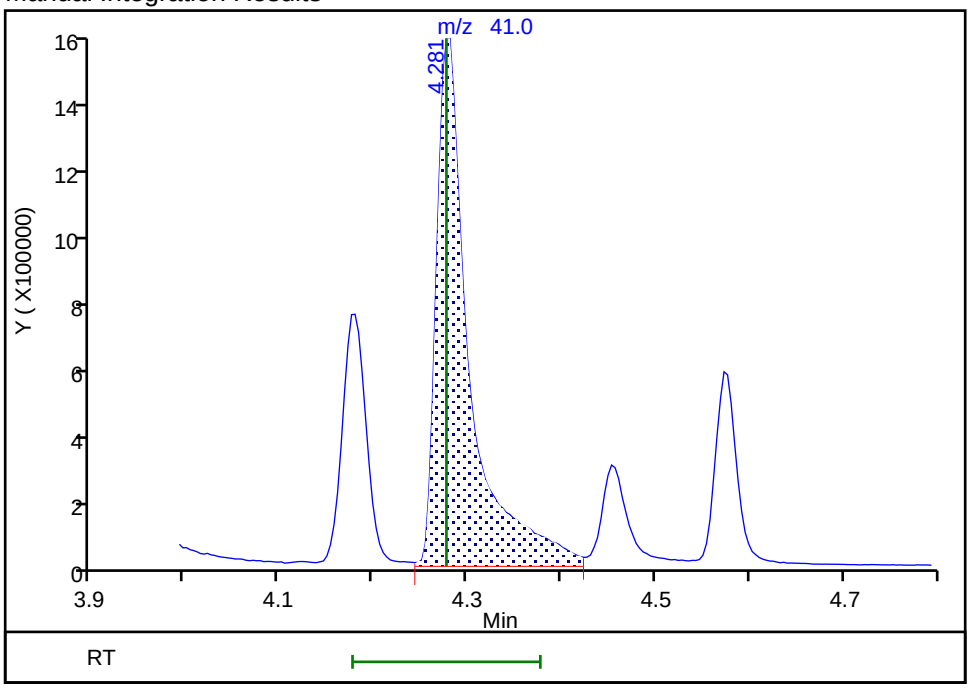
Processing Integration Results

RT: 4.45
Area: 591698
Amount: 558.5120
Amount Units: ug/l



Manual Integration Results

RT: 4.28
Area: 3801872
Amount: 2607.3726
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:46:20 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11771.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 09-May-2024 02:43:30 ALS Bottle#: 9 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Operator ID: COULTER/CF Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub62

Method: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 09-May-2024 12:48:34 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: Q2ZS Date: 09-May-2024 11:41:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.596	4.595	0.001	97	1731545	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.077	7.077	0.000	92	344340	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.277	9.281	-0.004	95	550192	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.109	4.113	-0.004	91	393866	50.0	51.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.364	4.363	0.001	99	609038	50.0	49.4	
$ 6 Toluene-d8 (Surr)	98	5.827	5.827	0.000	96	1730110	50.0	54.0	
$ 7 4-Bromofluorobenzene (Surr)	95	8.166	8.166	0.000	80	621425	50.0	48.9	
9 Dichlorodifluoromethane	85	1.426	1.426	0.000	99	1354576	200.0	203.0	
10 Chloromethane	50	1.628	1.628	0.000	100	2085123	200.0	207.7	
11 Vinyl chloride	62	1.665	1.665	0.000	98	1271490	200.0	160.0	
12 Bromomethane	94	1.976	1.912	0.064	95	395633	200.0	155.7	M
13 Chloroethane	64	1.983	1.991	-0.008	98	836965	200.0	168.3	M
14 Dichlorofluoromethane	67	2.144	2.152	-0.008	99	2970808	200.0	217.8	
15 Trichlorofluoromethane	101	2.174	2.178	-0.004	99	2043448	200.0	196.7	M
18 Ethyl ether	59	2.369	2.373	-0.004	97	1918301	200.0	215.5	
19 Acrolein	56	2.470	2.477	-0.007	99	4686751	1975.0	2081.5	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.537	2.541	-0.004	99	958355	200.0	215.4	
21 1,1-Dichloroethene	96	2.545	2.545	0.000	94	1335567	200.0	204.6	
22 Acetone	43	2.571	2.575	-0.004	98	6470400	800.0	746.1	
23 Iodomethane	142	2.653	2.657	-0.004	99	1911530	200.0	226.4	
25 Carbon disulfide	76	2.709	2.713	-0.004	100	4222525	200.0	210.2	M
26 Methyl acetate	43	2.781	2.784	-0.003	99	7463156	400.0	430.0	
16 3-Chloro-1-propene	41	2.796	2.795	0.001	86	2805472	200.0	169.2	
28 Methylene Chloride	84	2.889	2.889	0.000	95	1710060	200.0	182.2	
29 2-Methyl-2-propanol	59	2.945	2.941	0.004	98	7842385	2000.0	1739.3	
30 Acrylonitrile	53	3.043	3.042	0.001	96	14208238	2000.0	1788.5	
31 Methyl tert-butyl ether	73	3.057	3.057	0.000	100	5598127	200.0	176.5	
32 trans-1,2-Dichloroethene	96	3.069	3.072	-0.003	91	1373799	200.0	202.4	
33 Hexane	57	3.252	3.256	-0.004	96	2756690	200.0	217.0	
35 Vinyl acetate	43	3.357	3.364	-0.007	97	7875852	400.0	353.7	
34 1,1-Dichloroethane	63	3.368	3.372	-0.004	97	3561221	200.0	203.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Butanone (MEK)	43	3.750	3.750	0.000	98	10224905	800.0	743.7	
40 cis-1,2-Dichloroethene	96	3.765	3.768	-0.003	91	1591328	200.0	207.5	
41 2,2-Dichloropropane	77	3.772	3.772	0.000	91	2343977	200.0	186.7	
44 sec-Butyl Alcohol	45	3.873	3.869	0.004	99	16582622	4800.0	4071.3	
46 Chlorobromomethane	128	3.941	3.941	0.000	87	665047	200.0	195.9	
47 Tetrahydrofuran	42	3.948	3.948	0.000	93	4079407	400.0	415.1	
48 Chloroform	83	3.997	3.997	0.000	99	3090691	200.0	202.6	
49 1,1,1-Trichloroethane	97	4.124	4.128	-0.004	96	2681476	200.0	214.6	
50 Cyclohexane	56	4.180	4.180	0.000	98	3851700	200.0	202.7	
52 1,1-Dichloropropene	75	4.236	4.240	-0.004	86	2459848	200.0	202.1	
51 Carbon tetrachloride	117	4.236	4.240	-0.004	83	2092988	200.0	218.3	
53 Isobutyl alcohol	41	4.281	4.277	0.004	93	6948410	5000.0	4649.0	a
54 Benzene	78	4.382	4.386	-0.004	98	7211472	200.0	203.5	
55 1,2-Dichloroethane	62	4.416	4.420	-0.004	97	2999799	200.0	201.6	
57 n-Heptane	43	4.573	4.577	-0.004	98	2932023	200.0	203.7	
59 Trichloroethene	95	4.865	4.865	0.000	92	1808182	200.0	227.3	
60 2-Pentanone	43	4.977	4.977	0.000	97	14172073	640.0	558.8	
61 Methylcyclohexane	55	5.045	5.045	0.000	97	2870586	200.0	197.7	
62 1,2-Dichloropropane	63	5.063	5.063	0.000	95	2097222	200.0	194.1	
64 1,4-Dioxane	88	5.119	5.127	-0.008	97	824742	4000.0	3925.4	
65 Dibromomethane	93	5.134	5.138	-0.004	89	1154289	200.0	216.3	
66 Dichlorobromomethane	83	5.258	5.262	-0.004	97	2564624	200.0	217.7	
68 2-Chloroethyl vinyl ether	63	5.467	5.471	-0.004	91	1776021	200.0	196.4	
69 cis-1,3-Dichloropropene	75	5.606	5.610	-0.004	88	3063263	200.0	219.9	
70 4-Methyl-2-pentanone (MIBK)	43	5.711	5.711	0.000	97	16662388	800.0	655.6	
71 Toluene	91	5.879	5.883	-0.004	98	7106368	200.0	203.0	
72 trans-1,3-Dichloropropene	75	6.066	6.070	-0.004	98	3044866	200.0	212.3	
73 Ethyl methacrylate	69	6.096	6.096	0.000	97	3385300	200.0	194.9	
74 1,1,2-Trichloroethane	97	6.235	6.235	0.000	95	1569616	200.0	198.3	
75 Tetrachloroethene	164	6.313	6.317	-0.004	91	1144570	200.0	212.6	
76 1,3-Dichloropropane	76	6.377	6.377	0.000	99	3069942	200.0	209.7	
77 2-Hexanone	43	6.407	6.407	0.000	99	14088092	800.0	667.9	
78 Chlorodibromomethane	129	6.564	6.564	0.000	90	1672794	200.0	225.5	
79 Ethylene Dibromide	107	6.676	6.676	0.000	98	1643147	200.0	216.4	
80 1-Chlorohexane	91	7.073	7.073	0.000	82	1799410	160.0	166.0	
81 Chlorobenzene	112	7.103	7.103	0.000	87	3973648	200.0	203.5	
82 1,1,1,2-Tetrachloroethane	131	7.178	7.178	0.000	92	1393097	200.0	201.0	
83 Ethylbenzene	106	7.185	7.185	0.000	99	2151544	200.0	207.2	
84 m-Xylene & p-Xylene	106	7.301	7.305	-0.004	97	2851668	200.0	223.2	
85 o-Xylene	106	7.653	7.657	-0.004	98	2665218	200.0	207.6	
86 Styrene	104	7.672	7.675	-0.003	92	4554263	200.0	218.1	
87 Bromoform	173	7.848	7.847	0.001	92	1165702	200.0	225.2	
88 Isopropylbenzene	105	7.994	7.993	0.001	98	7075386	200.0	189.4	
89 Cyclohexanone	55	8.087	8.087	0.000	97	7565219	6000.0	5178.3	
91 1,1,2,2-Tetrachloroethane	83	8.285	8.289	-0.004	96	2408302	200.0	167.1	
92 Bromobenzene	156	8.300	8.300	0.000	95	1468598	200.0	198.9	
93 trans-1,4-Dichloro-2-butene	53	8.327	8.326	0.001	81	1179979	200.0	186.8	
94 1,2,3-Trichloropropane	110	8.345	8.345	0.000	88	821076	200.0	177.4	
95 N-Propylbenzene	120	8.390	8.390	0.000	99	1811239	200.0	203.0	
96 2-Chlorotoluene	126	8.480	8.480	0.000	93	1513012	200.0	209.5	
97 1,3,5-Trimethylbenzene	105	8.562	8.562	0.000	94	5715651	200.0	194.0	
98 4-Chlorotoluene	126	8.596	8.596	0.000	99	1529113	200.0	208.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 tert-Butylbenzene	119	8.865	8.865	0.000	94	4668760	200.0	187.7	
100 1,2,4-Trimethylbenzene	105	8.925	8.925	0.000	99	5745882	200.0	195.7	
101 sec-Butylbenzene	134	9.082	9.082	0.000	97	1338558	200.0	209.7	
102 1,3-Dichlorobenzene	146	9.202	9.206	-0.004	93	2835057	200.0	200.3	
103 4-Isopropyltoluene	119	9.232	9.236	-0.004	96	5562003	200.0	189.5	
104 1,4-Dichlorobenzene	146	9.300	9.303	-0.003	88	2935365	200.0	203.1	
106 n-Butylbenzene	91	9.633	9.633	0.001	98	5270108	200.0	193.9	
107 1,2-Dichlorobenzene	146	9.651	9.651	0.000	95	2580727	200.0	187.8	
108 1,2-Dibromo-3-Chloropropane	157	10.422	10.426	-0.004	71	750951	200.0	200.2	
110 1,2,4-Trichlorobenzene	180	11.238	11.242	-0.004	92	1623044	200.0	212.2	
111 Hexachlorobutadiene	225	11.384	11.384	0.000	96	693924	200.0	194.8	
112 Naphthalene	128	11.496	11.500	-0.004	98	5928326	200.0	212.5	
113 1,2,3-Trichlorobenzene	180	11.721	11.721	0.000	92	1541559	200.0	206.0	
S 115 1,2-Dichloroethene, Total	1				0		400.0	409.8	
S 116 1,3-Dichloropropene, Total	1				0		400.0	432.2	
S 117 Xylenes, Total	106				0		400.0	430.8	
S 118 Total BTEX	1				0			1044.5	
S 119 Trihalomethanes, Total	1				0		800.0	871.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MV-MegaMain B_00102	Amount Added: 100.00	Units: uL	
MV-Gas B_00162	Amount Added: 40.00	Units: uL	
mv-IS_SS_00079	Amount Added: 5.00	Units: uL	Run Reagent

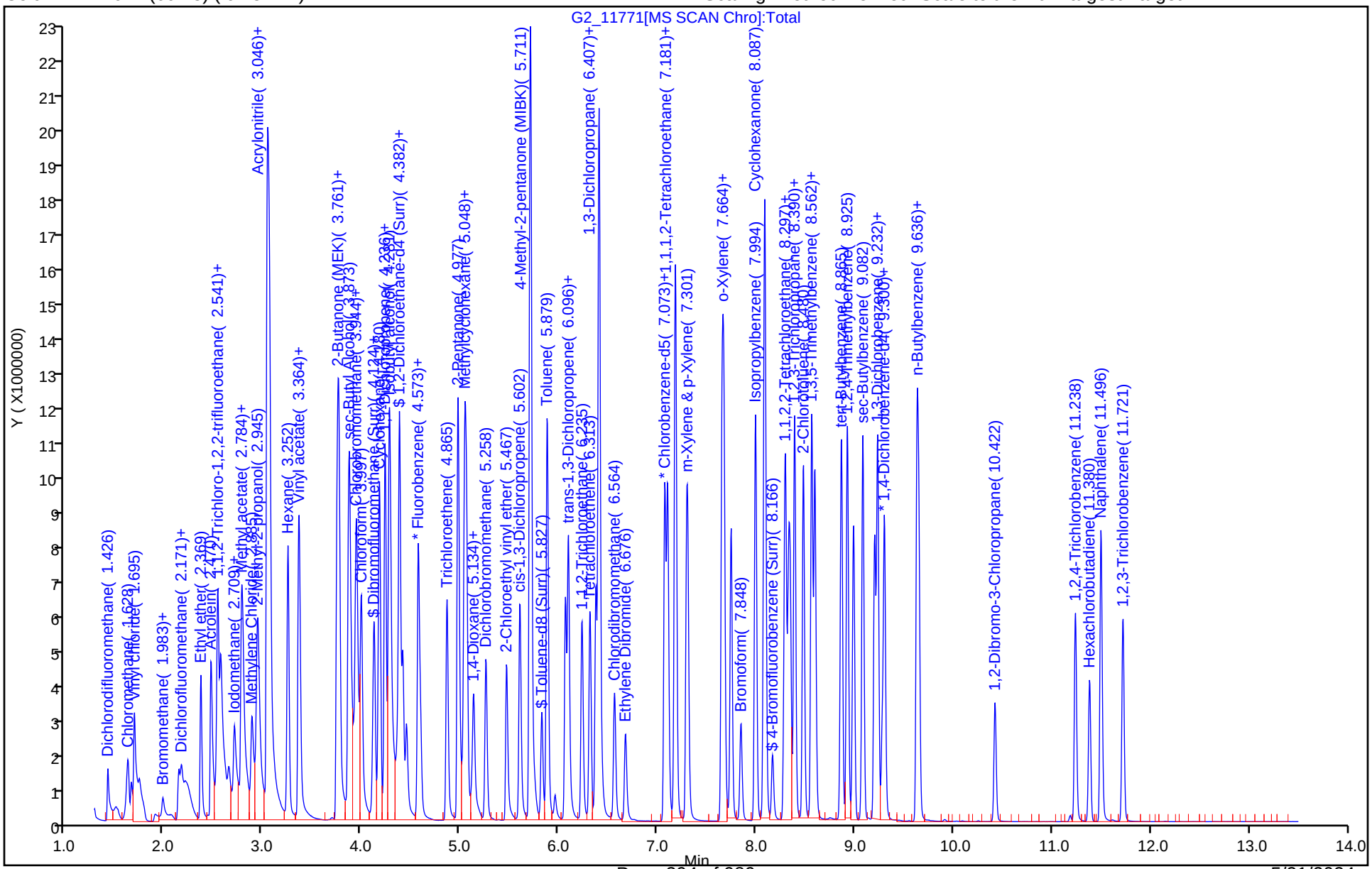
Report Date: 09-May-2024 12:48:35 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11771.D

Injection Date:	09-May-2024 02:43:30	Instrument ID:	VMS_G2	Operator ID:	COULTER/CF
Lims ID:	STD200			Worklist Smp#:	21
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver

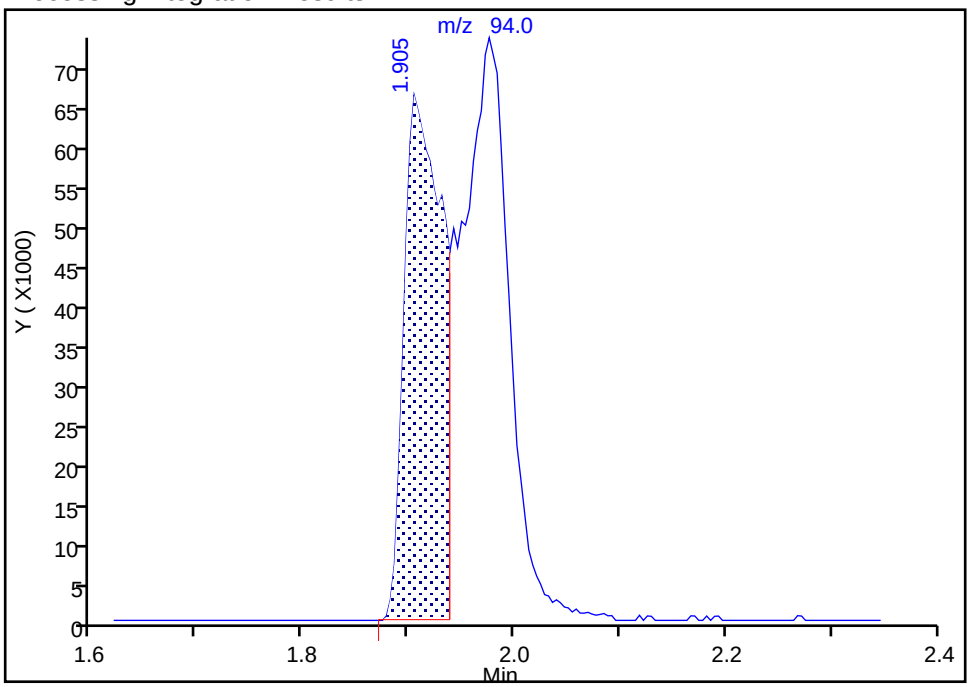
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11771.D
Injection Date: 09-May-2024 02:43:30 Instrument ID: VMS_G2
Lims ID: STD200
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 9 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

12 Bromomethane, CAS: 74-83-9

Signal: 1

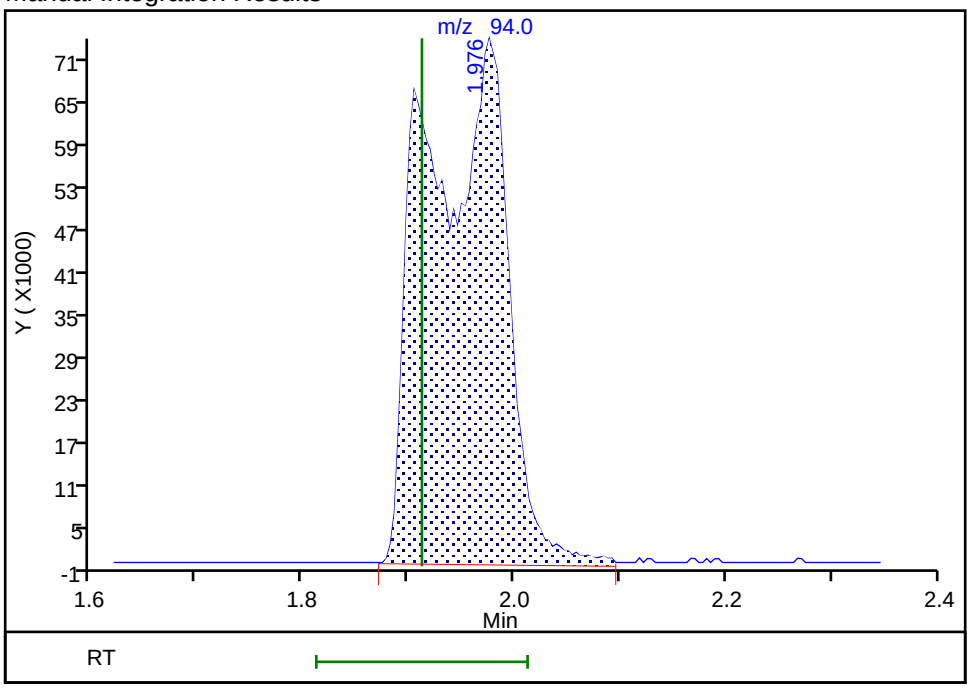
Processing Integration Results

RT: 1.90
Area: 165379
Amount: 68.043451
Amount Units: ug/l



Manual Integration Results

RT: 1.98
Area: 395633
Amount: 155.7304
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:40:59 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

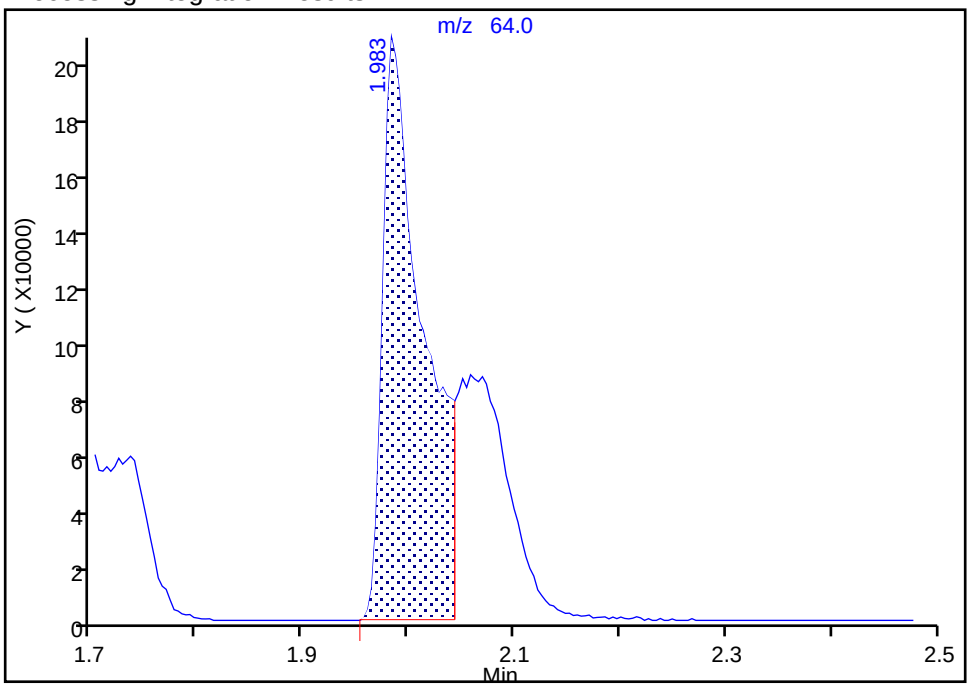
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11771.D				
Injection Date:	09-May-2024 02:43:30	Instrument ID:	VMS_G2		
Lims ID:	STD200				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	9	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

13 Chloroethane, CAS: 75-00-3

Signal: 1

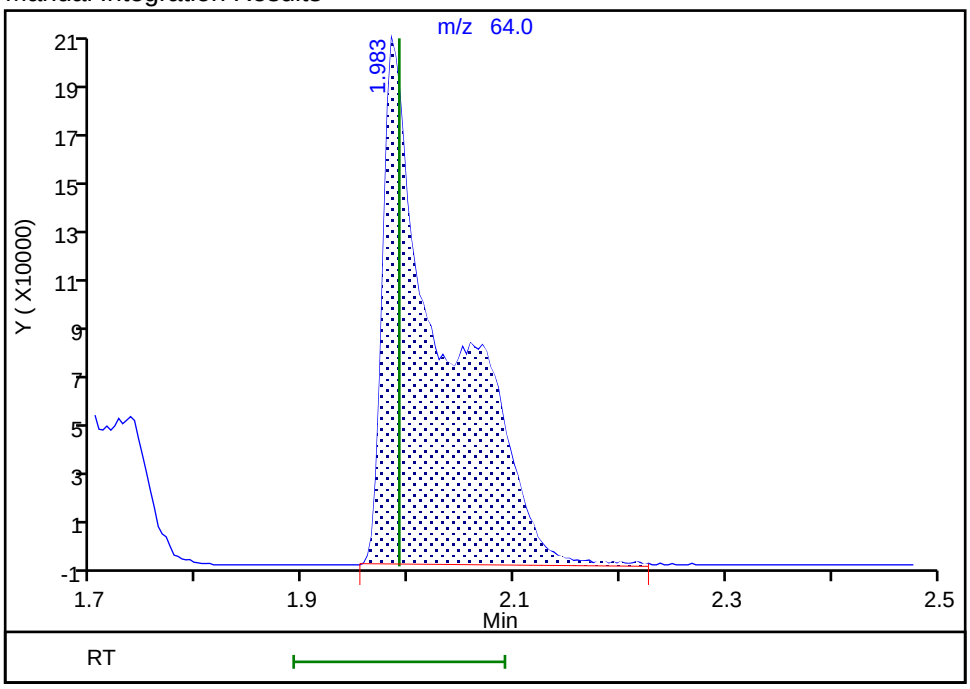
Processing Integration Results

RT: 1.98
Area: 549000
Amount: 70.464559
Amount Units: ug/l



Manual Integration Results

RT: 1.98
Area: 836965
Amount: 168.3291
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:44:29 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

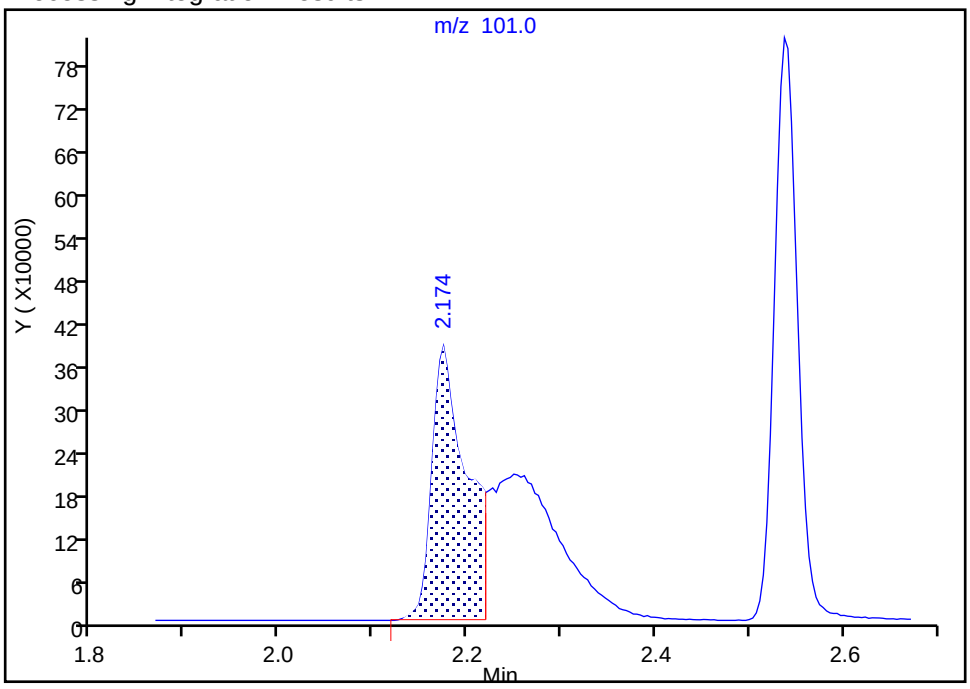
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11771.D				
Injection Date:	09-May-2024 02:43:30	Instrument ID:	VMS_G2		
Lims ID:	STD200				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	9	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

15 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

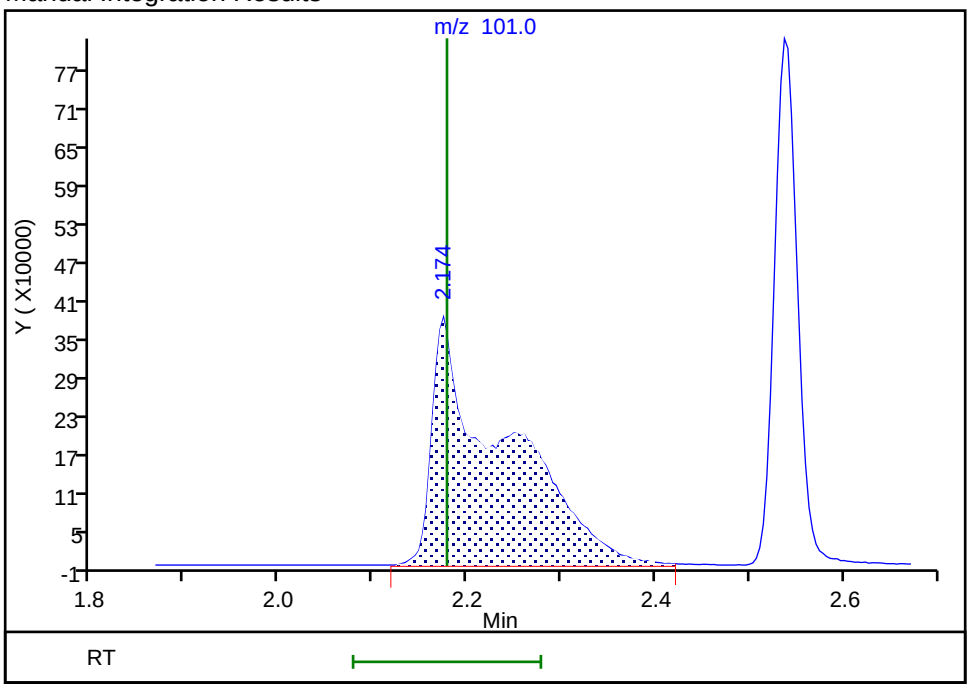
Processing Integration Results

RT: 2.17
Area: 986591
Amount: 101.4194
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 2043448
Amount: 196.7053
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:49:05 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

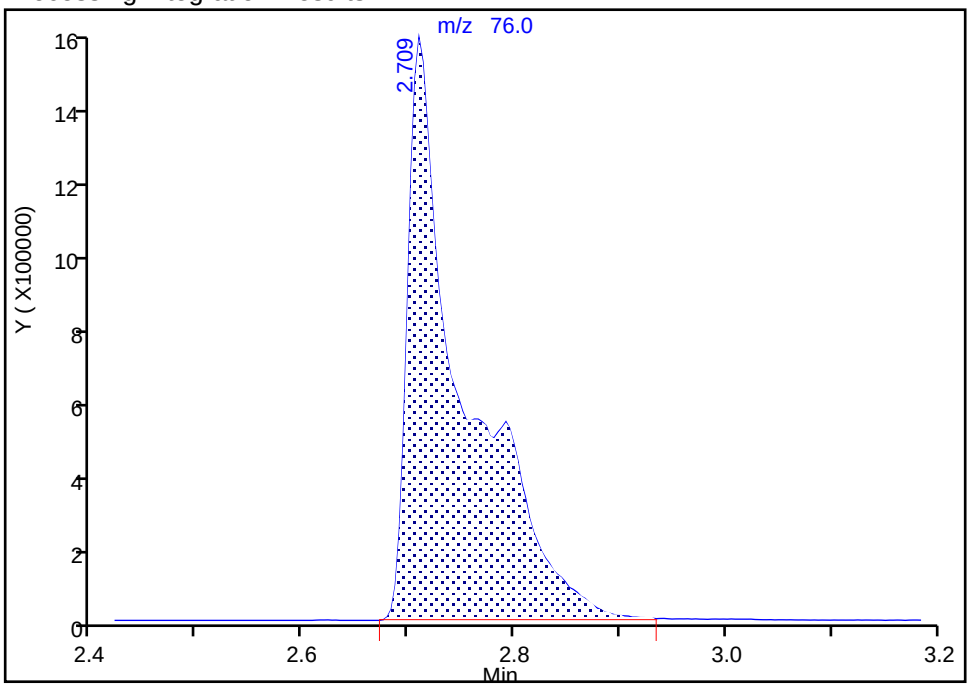
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11771.D
Injection Date: 09-May-2024 02:43:30 Instrument ID: VMS_G2
Lims ID: STD200
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 9 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

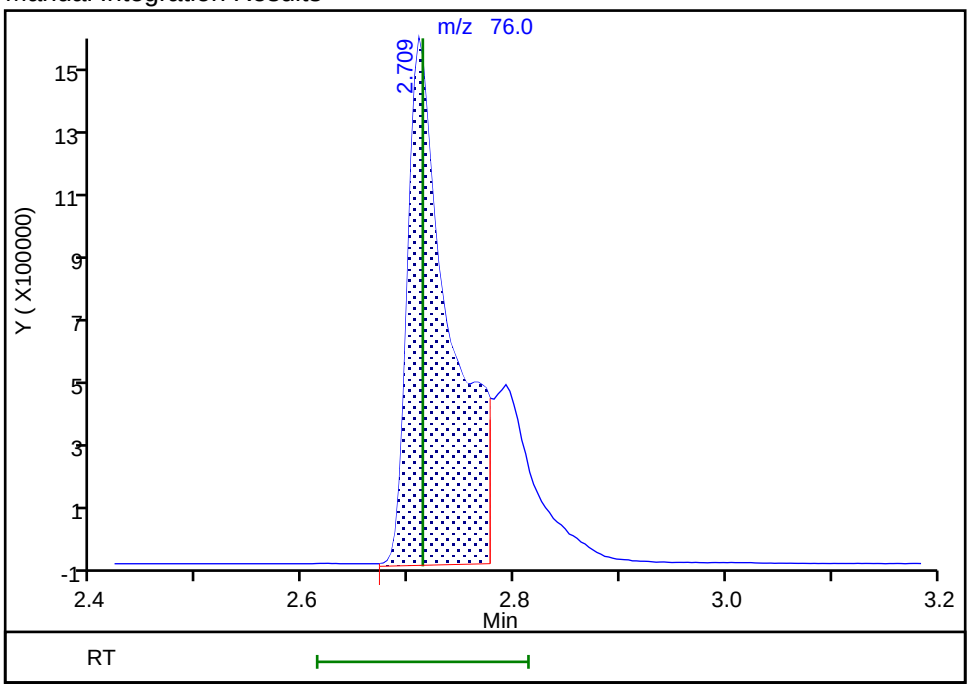
Processing Integration Results

RT: 2.71
Area: 5622655
Amount: 254.1269
Amount Units: ug/l



Manual Integration Results

RT: 2.71
Area: 4222525
Amount: 210.2315
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 12:46:02 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

Eurofins Denver

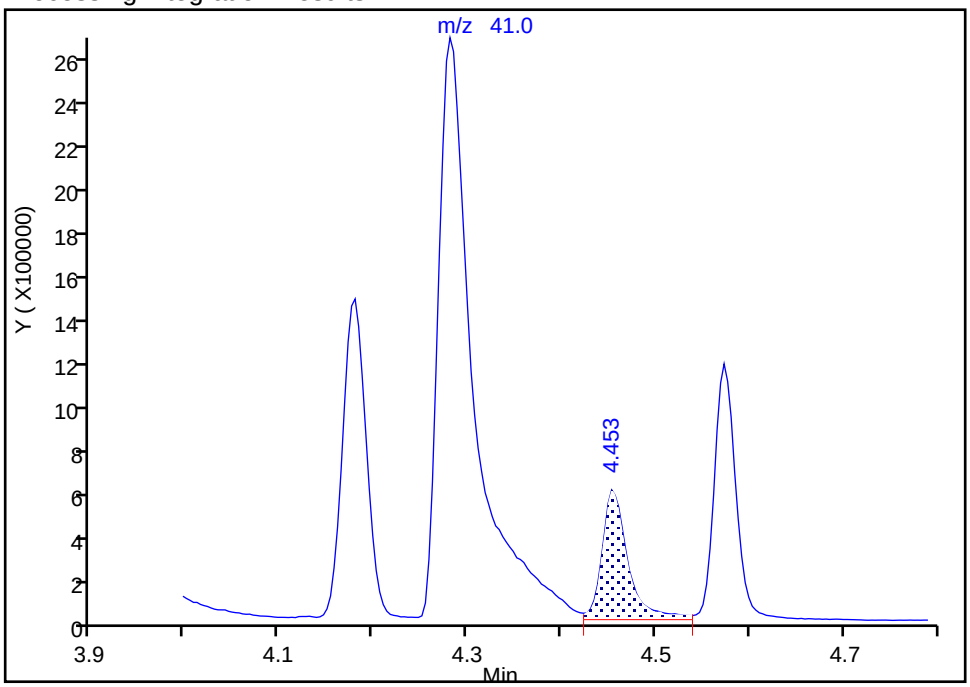
Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11771.D				
Injection Date:	09-May-2024 02:43:30	Instrument ID:	VMS_G2		
Lims ID:	STD200				
Client ID:					
Operator ID:	COULTER/CF	ALS Bottle#:	9	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

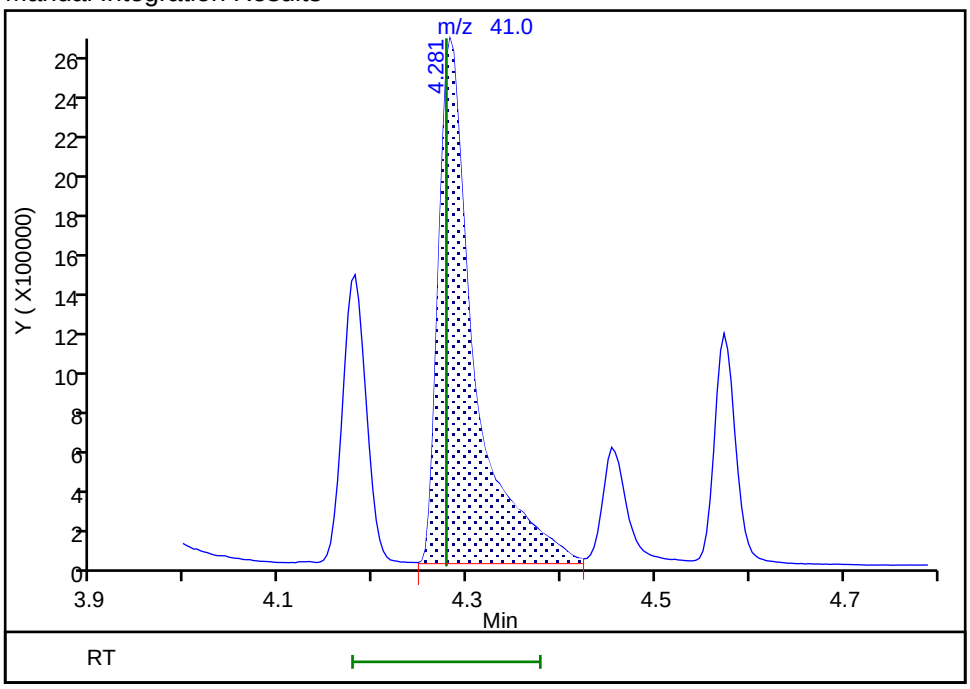
Processing Integration Results

RT: 4.45
Area: 1115580
Amount: 1168.8913
Amount Units: ug/l



Manual Integration Results

RT: 4.28
Area: 6948410
Amount: 4648.9823
Amount Units: ug/l



Reviewer: Q2ZS, 09-May-2024 11:45:58 -06:00:00 (UTC)
Audit Action: Assigned Compound ID 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

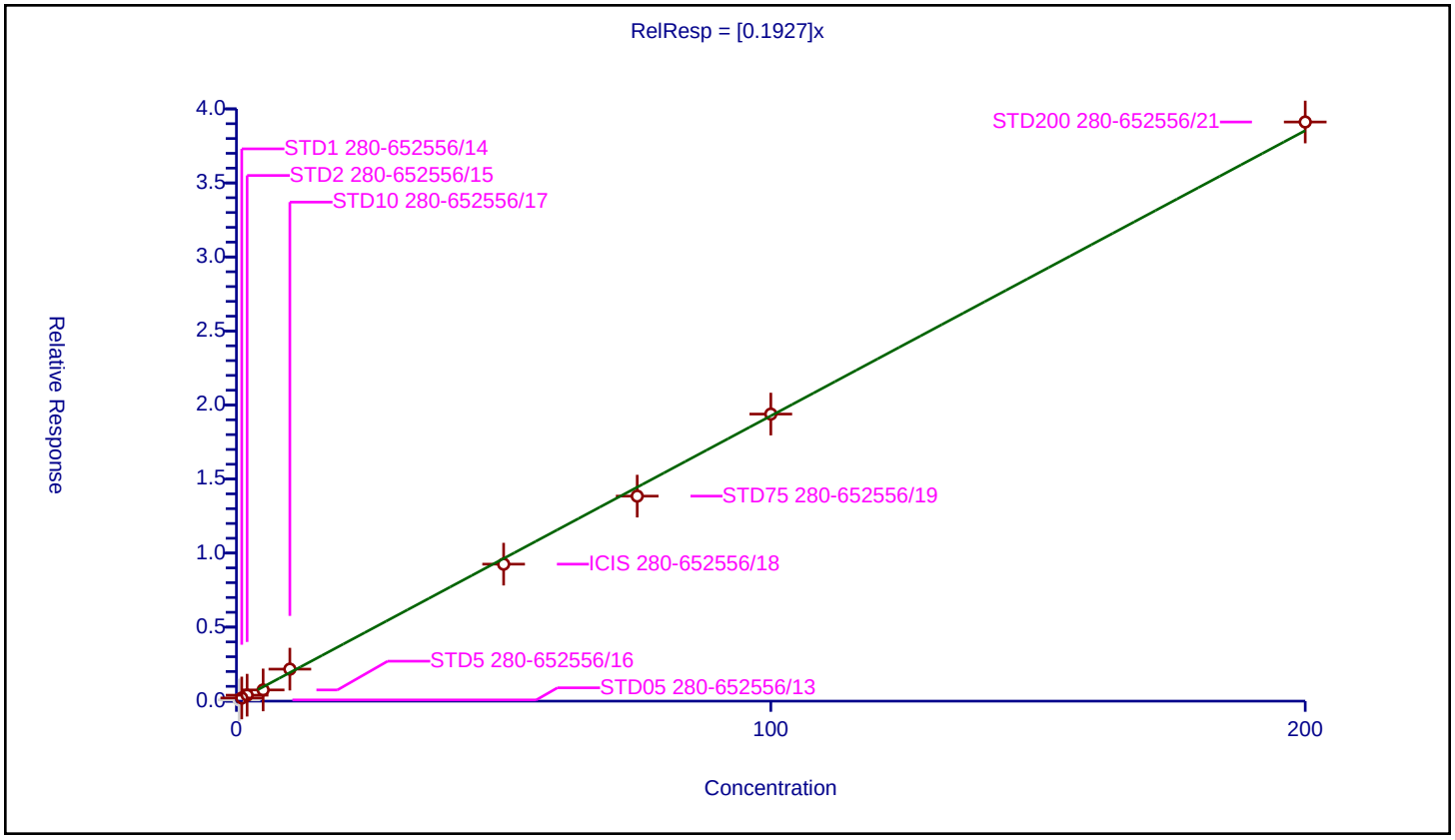
Curve Coefficients

Intercept:	0
Slope:	0.1927

Error Coefficients

Relative Standard Deviation:	10.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.081938	50.0	1526758.0	0.163877	N
2	STD1 280-652556/14	1.0	0.213685	50.0	1562581.0	0.213685	Y
3	STD2 280-652556/15	2.0	0.402777	50.0	1595053.0	0.201388	Y
4	STD5 280-652556/16	5.0	0.755546	50.0	1642587.0	0.151109	Y
5	STD10 280-652556/17	10.0	2.1606	50.0	1555702.0	0.21606	Y
6	ICIS 280-652556/18	50.0	9.252213	50.0	1640721.0	0.185044	Y
7	STD75 280-652556/19	75.0	13.846315	50.0	1645380.0	0.184618	Y
8	STD100 280-652556/20	100.0	19.38876	50.0	1692264.0	0.193888	Y
9	STD200 280-652556/21	200.0	39.114663	50.0	1731545.0	0.195573	Y



5/21/2024
3:57:23 PM

Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

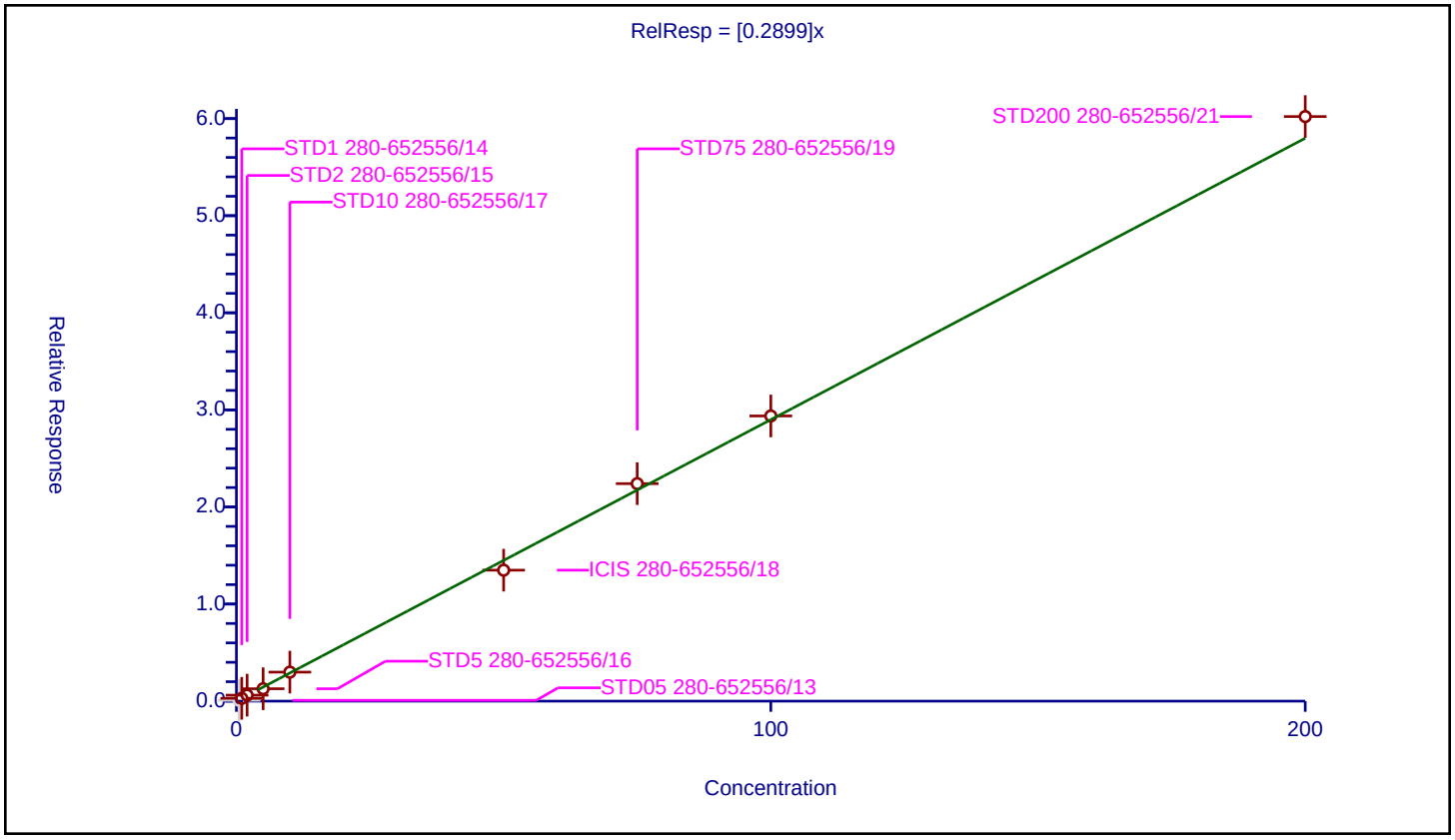
Curve Coefficients

Intercept:	0
Slope:	0.2899

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.087702	50.0	1526758.0	0.175404	N
2	STD1 280-652556/14	1.0	0.293265	50.0	1562581.0	0.293265	Y
3	STD2 280-652556/15	2.0	0.616594	50.0	1595053.0	0.308297	Y
4	STD5 280-652556/16	5.0	1.278197	50.0	1642587.0	0.255639	Y
5	STD10 280-652556/17	10.0	2.987462	50.0	1555702.0	0.298746	Y
6	ICIS 280-652556/18	50.0	13.490014	50.0	1640721.0	0.2698	Y
7	STD75 280-652556/19	75.0	22.401998	50.0	1645380.0	0.298693	Y
8	STD100 280-652556/20	100.0	29.371895	50.0	1692264.0	0.293719	Y
9	STD200 280-652556/21	200.0	60.209899	50.0	1731545.0	0.301049	Y



5/21/2024
3:57:23 PM

Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

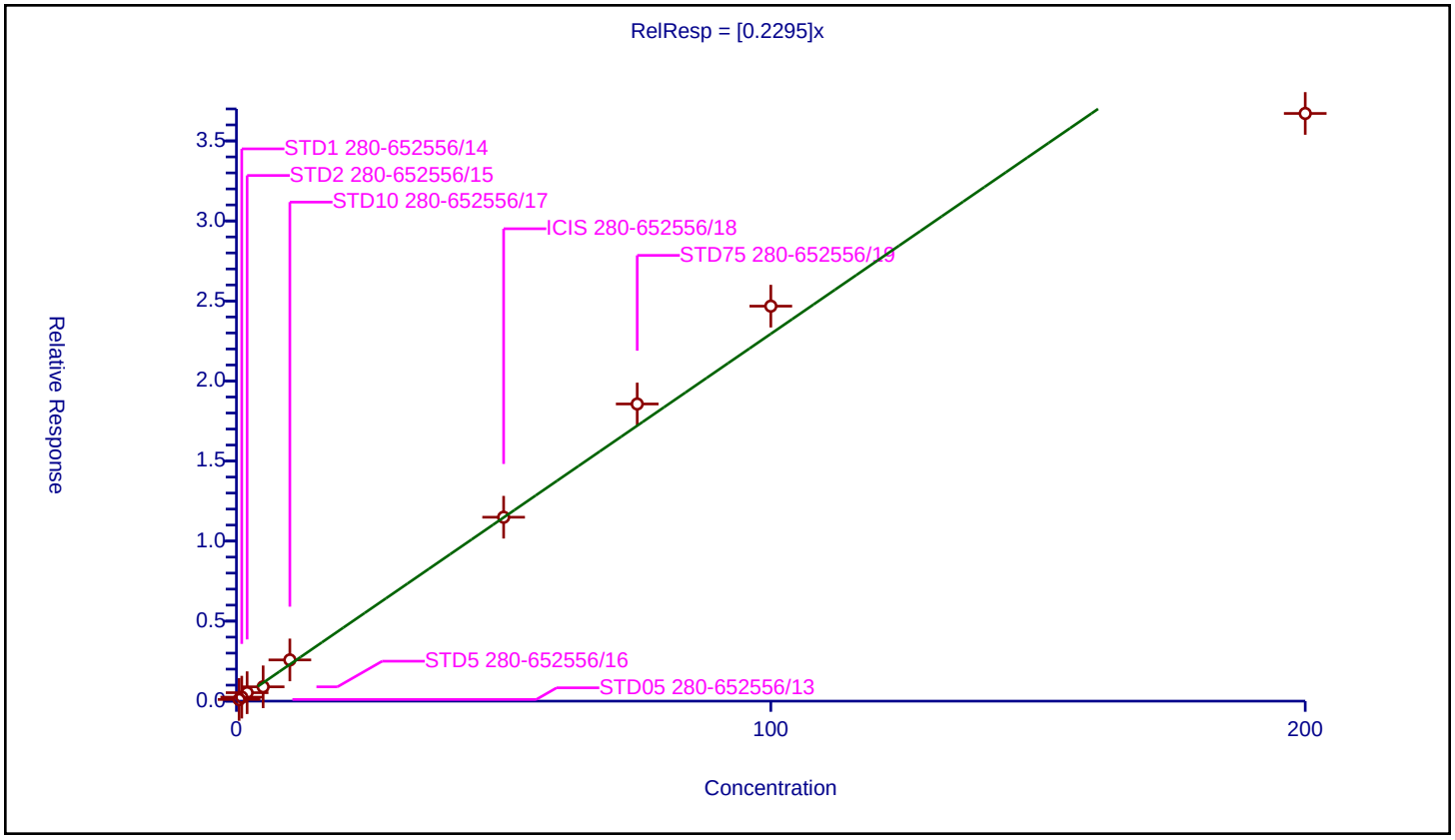
Curve Coefficients

Intercept:	0
Slope:	0.2295

Error Coefficients

Relative Standard Deviation:	13.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.104109	50.0	1526758.0	0.208219	Y
2	STD1 280-652556/14	1.0	0.249139	50.0	1562581.0	0.249139	Y
3	STD2 280-652556/15	2.0	0.527569	50.0	1595053.0	0.263784	Y
4	STD5 280-652556/16	5.0	0.894504	50.0	1642587.0	0.178901	Y
5	STD10 280-652556/17	10.0	2.574336	50.0	1555702.0	0.257434	Y
6	ICIS 280-652556/18	50.0	11.489857	50.0	1640721.0	0.229797	Y
7	STD75 280-652556/19	75.0	18.564587	50.0	1645380.0	0.247528	Y
8	STD100 280-652556/20	100.0	24.67641	50.0	1692264.0	0.246764	Y
9	STD200 280-652556/21	200.0	36.715477	50.0	1731545.0	0.183577	Y



5/21/2024
3:57:23 PM

Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

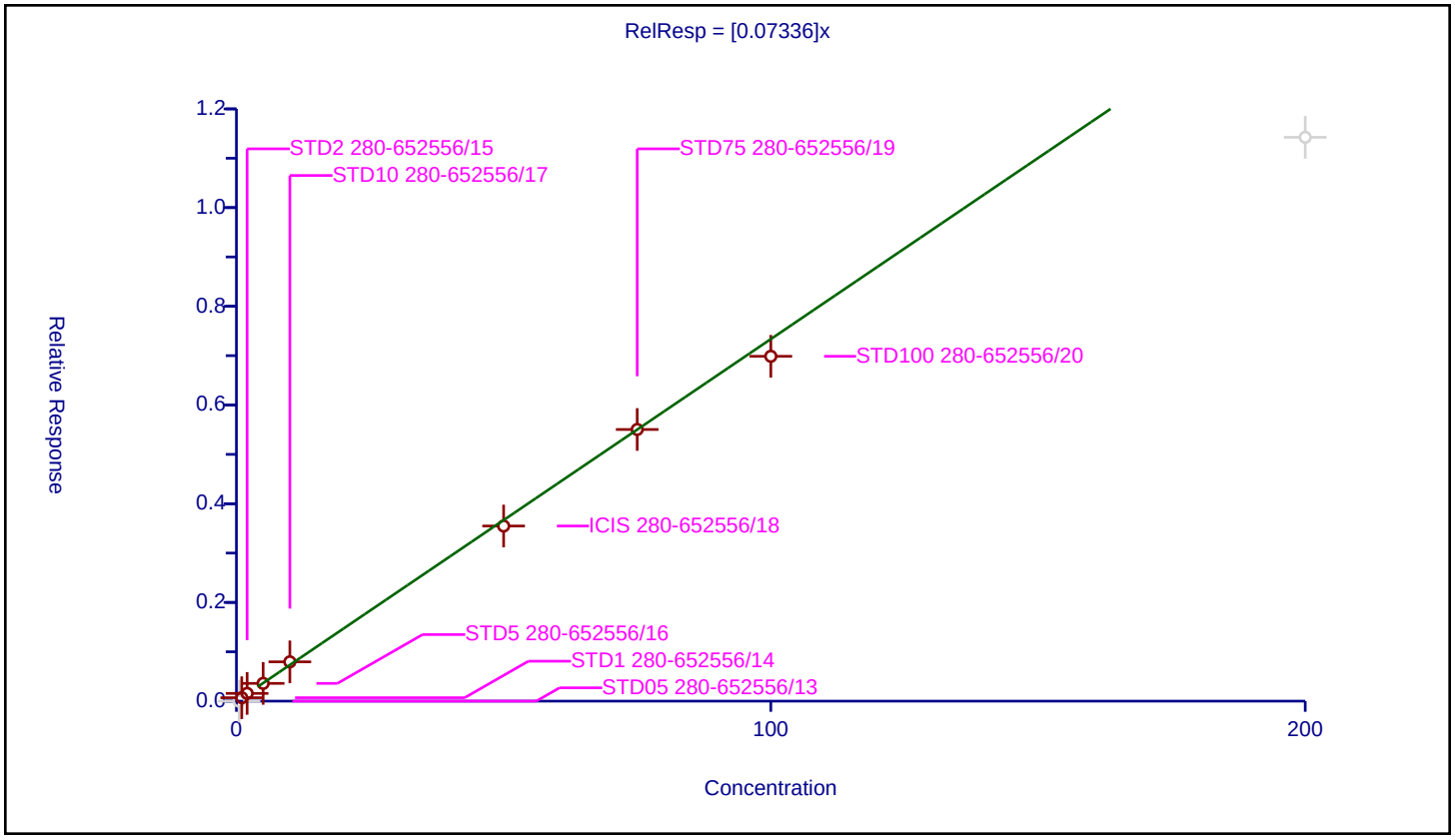
Curve Coefficients

Intercept:	0
Slope:	0.07336

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.0	50.0	1526758.0	0.0	N
2	STD1 280-652556/14	1.0	0.069244	50.0	1562581.0	0.069244	Y
3	STD2 280-652556/15	2.0	0.15686	50.0	1595053.0	0.07843	Y
4	STD5 280-652556/16	5.0	0.359859	50.0	1642587.0	0.071972	Y
5	STD10 280-652556/17	10.0	0.796393	50.0	1555702.0	0.079639	Y
6	ICIS 280-652556/18	50.0	3.548318	50.0	1640721.0	0.070966	Y
7	STD75 280-652556/19	75.0	5.50423	50.0	1645380.0	0.07339	Y
8	STD100 280-652556/20	100.0	6.987355	50.0	1692264.0	0.069874	Y
9	STD200 280-652556/21	200.0	11.424277	50.0	1731545.0	0.057121	N



5/21/2024
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Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

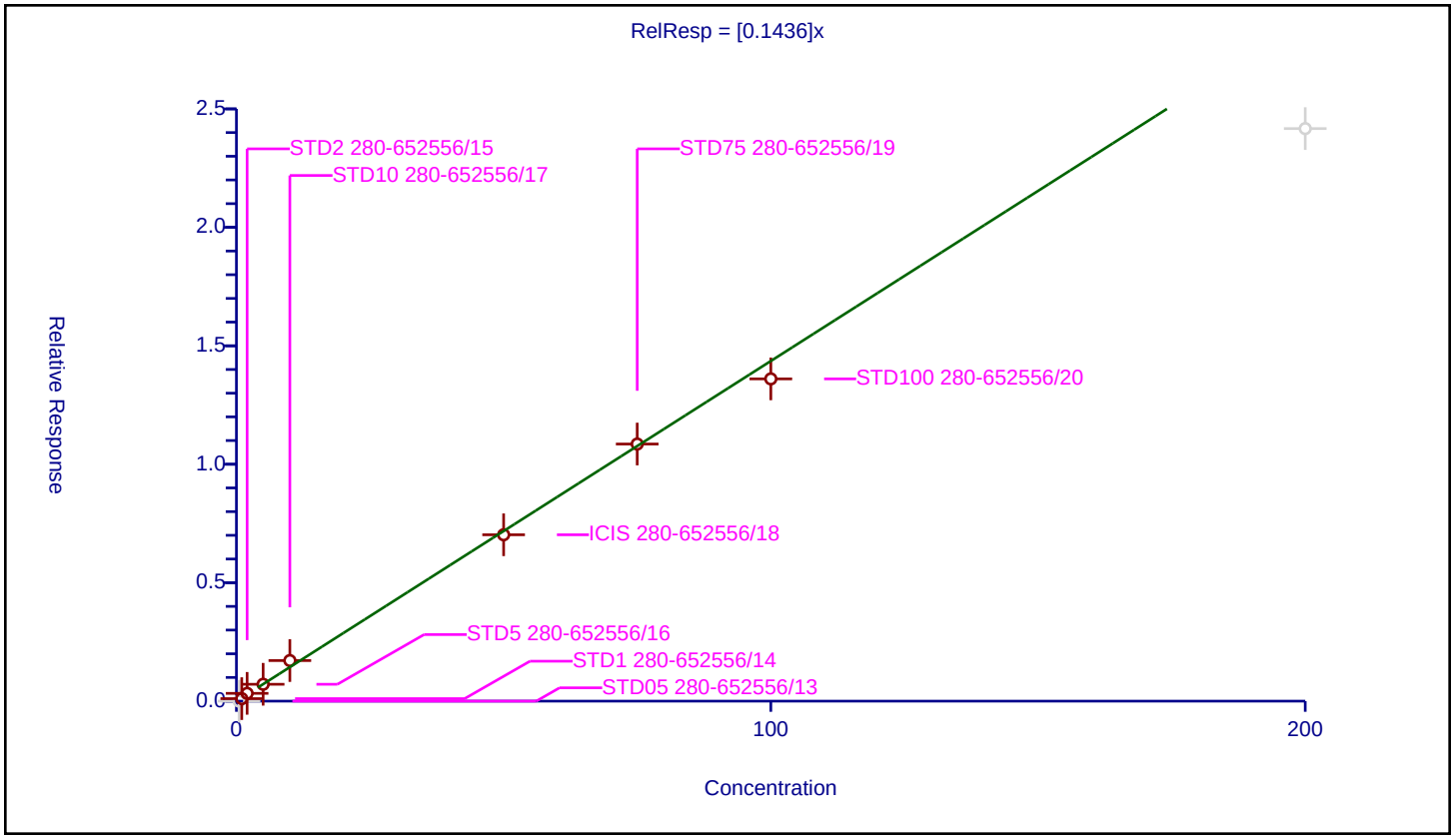
Curve Coefficients

Intercept:	0
Slope:	0.1436

Error Coefficients

Relative Standard Deviation:	14.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.0	50.0	1526758.0	0.0	N
2	STD1 280-652556/14	1.0	0.105755	50.0	1562581.0	0.105755	Y
3	STD2 280-652556/15	2.0	0.328484	50.0	1595053.0	0.164242	Y
4	STD5 280-652556/16	5.0	0.712595	50.0	1642587.0	0.142519	Y
5	STD10 280-652556/17	10.0	1.713342	50.0	1555702.0	0.171334	Y
6	ICIS 280-652556/18	50.0	7.02237	50.0	1640721.0	0.140447	Y
7	STD75 280-652556/19	75.0	10.852782	50.0	1645380.0	0.144704	Y
8	STD100 280-652556/20	100.0	13.60364	50.0	1692264.0	0.136036	Y
9	STD200 280-652556/21	200.0	24.168156	50.0	1731545.0	0.120841	N



5/21/2024
3:57:23 PM

Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

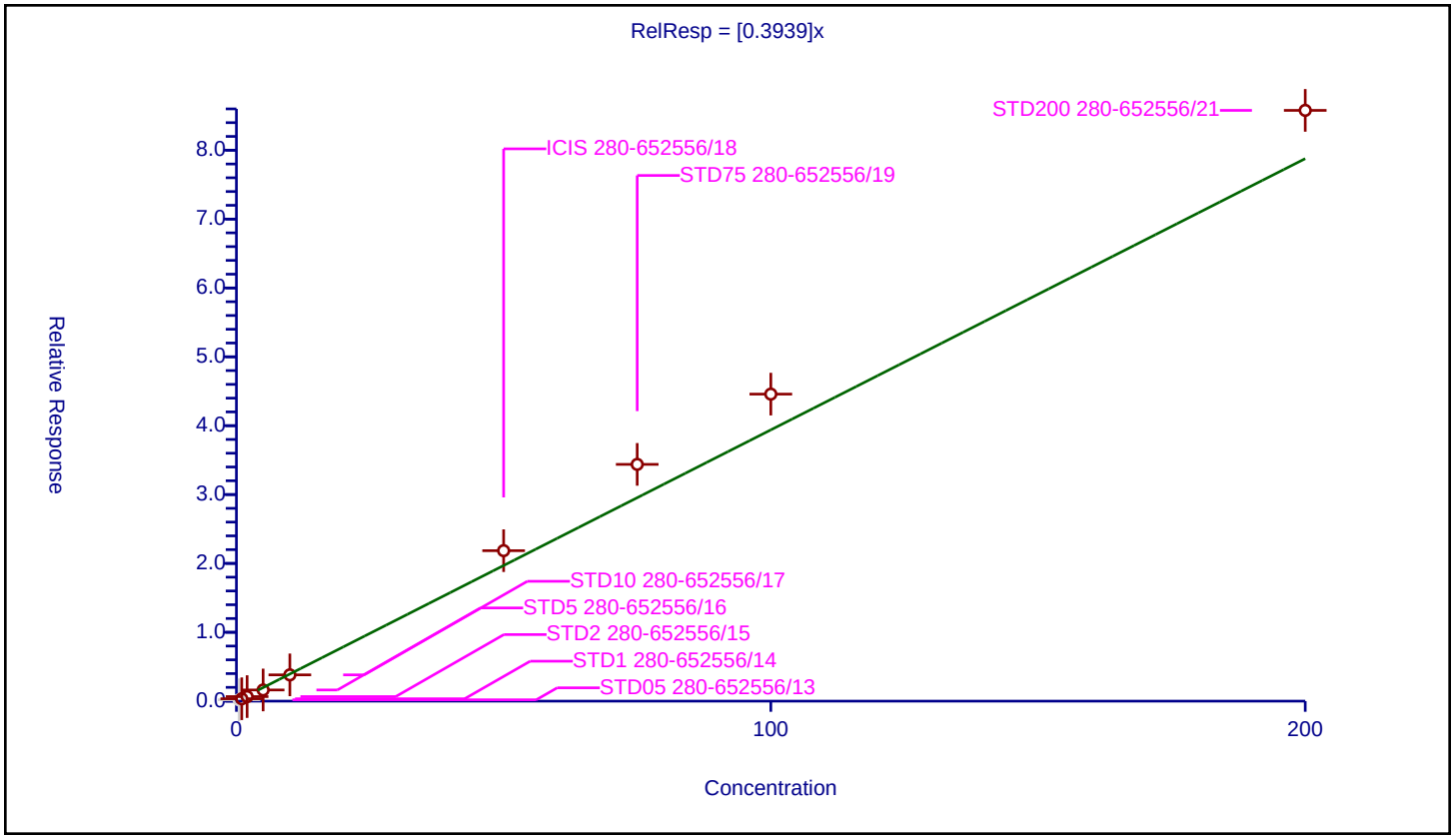
Curve Coefficients

Intercept:	0
Slope:	0.3939

Error Coefficients

Relative Standard Deviation:	14.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.195971	50.0	1526758.0	0.391942	N
2	STD1 280-652556/14	1.0	0.345454	50.0	1562581.0	0.345454	Y
3	STD2 280-652556/15	2.0	0.65863	50.0	1595053.0	0.329315	Y
4	STD5 280-652556/16	5.0	1.622258	50.0	1642587.0	0.324452	Y
5	STD10 280-652556/17	10.0	3.816026	50.0	1555702.0	0.381603	Y
6	ICIS 280-652556/18	50.0	21.850851	50.0	1640721.0	0.437017	Y
7	STD75 280-652556/19	75.0	34.379748	50.0	1645380.0	0.458397	Y
8	STD100 280-652556/20	100.0	44.583322	50.0	1692264.0	0.445833	Y
9	STD200 280-652556/21	200.0	85.784892	50.0	1731545.0	0.428924	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

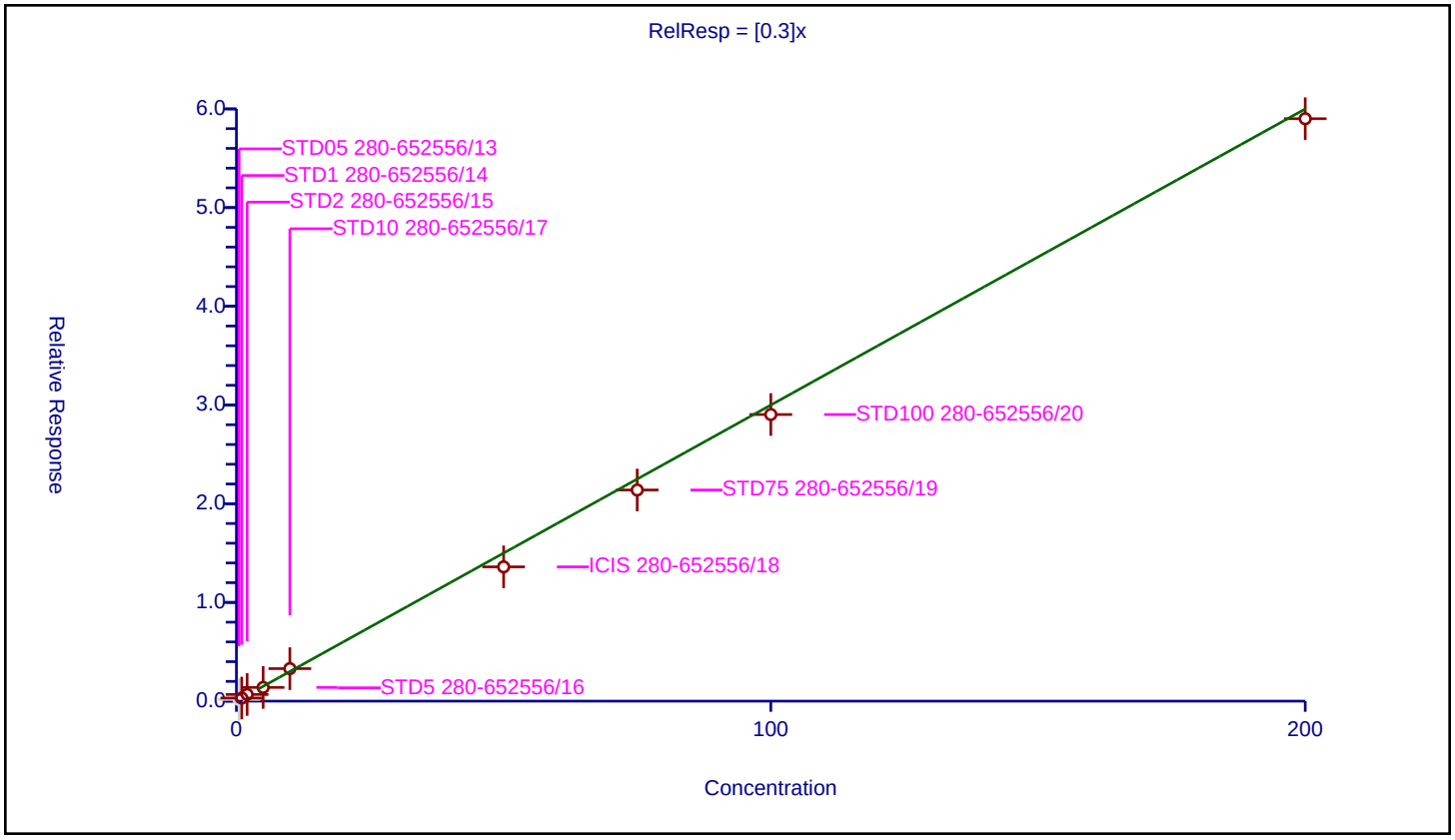
Curve Coefficients

Intercept:	0
Slope:	0.3

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.16463	50.0	1526758.0	0.32926	N
2	STD1 280-652556/14	1.0	0.31432	50.0	1562581.0	0.31432	Y
3	STD2 280-652556/15	2.0	0.672015	50.0	1595053.0	0.336008	Y
4	STD5 280-652556/16	5.0	1.387385	50.0	1642587.0	0.277477	Y
5	STD10 280-652556/17	10.0	3.293336	50.0	1555702.0	0.329334	Y
6	ICIS 280-652556/18	50.0	13.60216	50.0	1640721.0	0.272043	Y
7	STD75 280-652556/19	75.0	21.390074	50.0	1645380.0	0.285201	Y
8	STD100 280-652556/20	100.0	29.037786	50.0	1692264.0	0.290378	Y
9	STD200 280-652556/21	200.0	59.006494	50.0	1731545.0	0.295032	Y



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Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

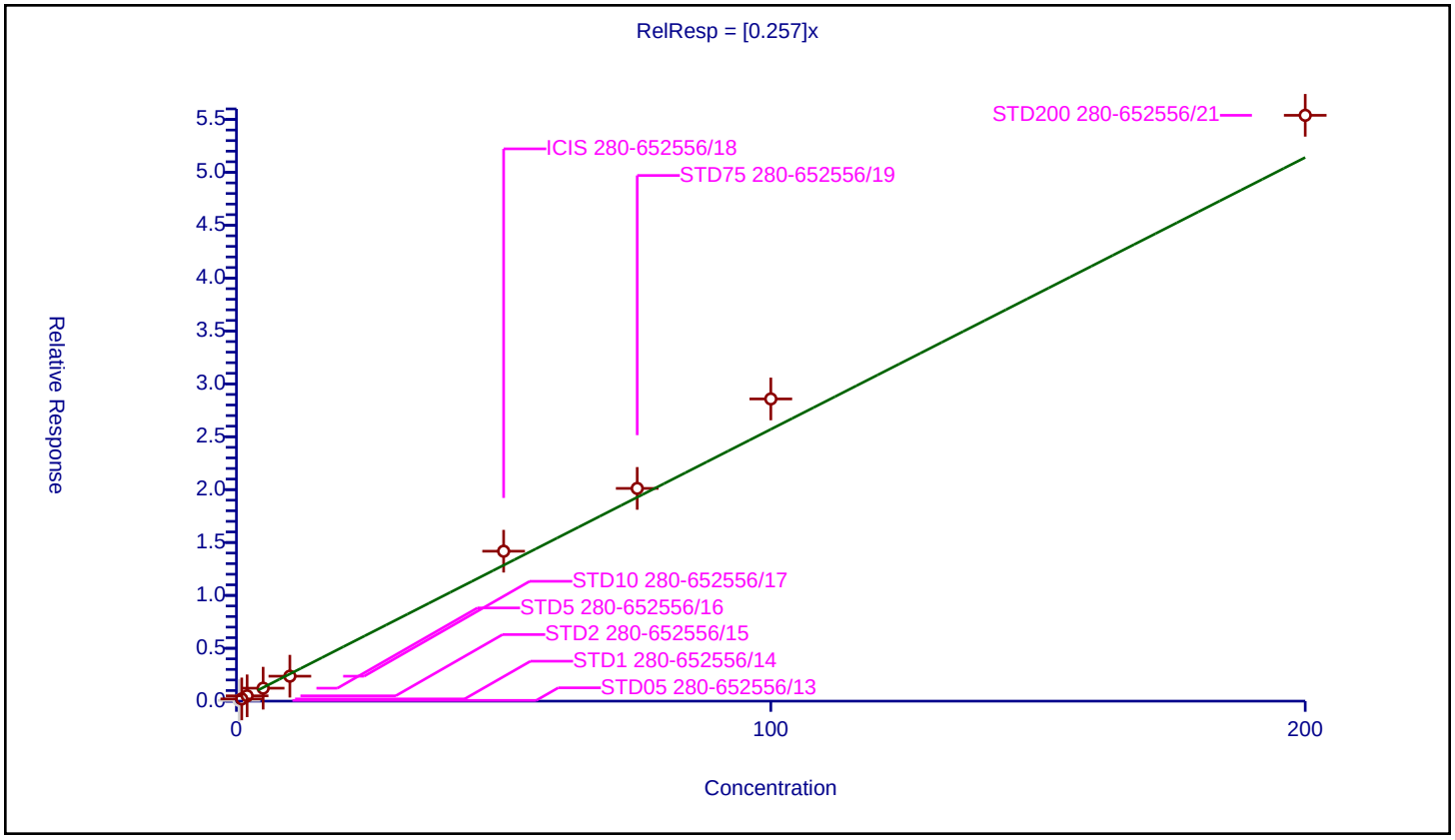
Curve Coefficients

Intercept:	0
Slope:	0.257

Error Coefficients

Relative Standard Deviation:	10.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.071328	50.0	1526758.0	0.142655	N
2	STD1 280-652556/14	1.0	0.210101	50.0	1562581.0	0.210101	Y
3	STD2 280-652556/15	2.0	0.501237	50.0	1595053.0	0.250619	Y
4	STD5 280-652556/16	5.0	1.225719	50.0	1642587.0	0.245144	Y
5	STD10 280-652556/17	10.0	2.359128	50.0	1555702.0	0.235913	Y
6	ICIS 280-652556/18	50.0	14.177334	50.0	1640721.0	0.283547	Y
7	STD75 280-652556/19	75.0	20.116295	50.0	1645380.0	0.268217	Y
8	STD100 280-652556/20	100.0	28.574265	50.0	1692264.0	0.285743	Y
9	STD200 280-652556/21	200.0	55.392756	50.0	1731545.0	0.276964	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

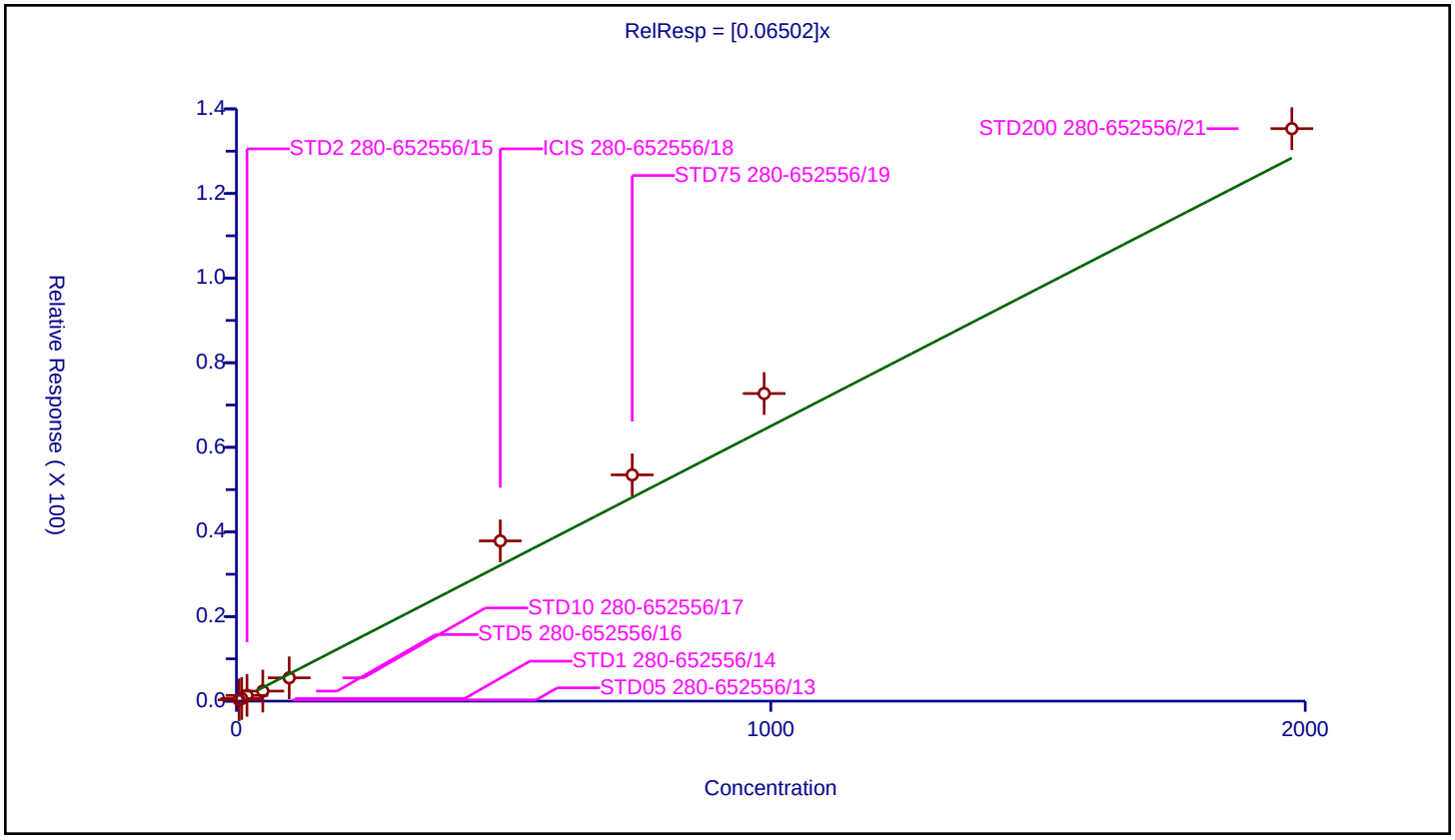
Curve Coefficients

Intercept:	0
Slope:	0.06502

Error Coefficients

Relative Standard Deviation:	14.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	4.9375	0.296118	50.0	1526758.0	0.059973	Y
2	STD1 280-652556/14	9.875	0.605121	50.0	1562581.0	0.061278	Y
3	STD2 280-652556/15	19.75	1.359046	50.0	1595053.0	0.068812	Y
4	STD5 280-652556/16	49.375	2.3789	50.0	1642587.0	0.04818	Y
5	STD10 280-652556/17	98.75	5.512045	50.0	1555702.0	0.055818	Y
6	ICIS 280-652556/18	493.75	37.882583	50.0	1640721.0	0.076724	Y
7	STD75 280-652556/19	740.625	53.485061	50.0	1645380.0	0.072216	Y
8	STD100 280-652556/20	987.5	72.715575	50.0	1692264.0	0.073636	Y
9	STD200 280-652556/21	1975.0	135.334369	50.0	1731545.0	0.068524	Y



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Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

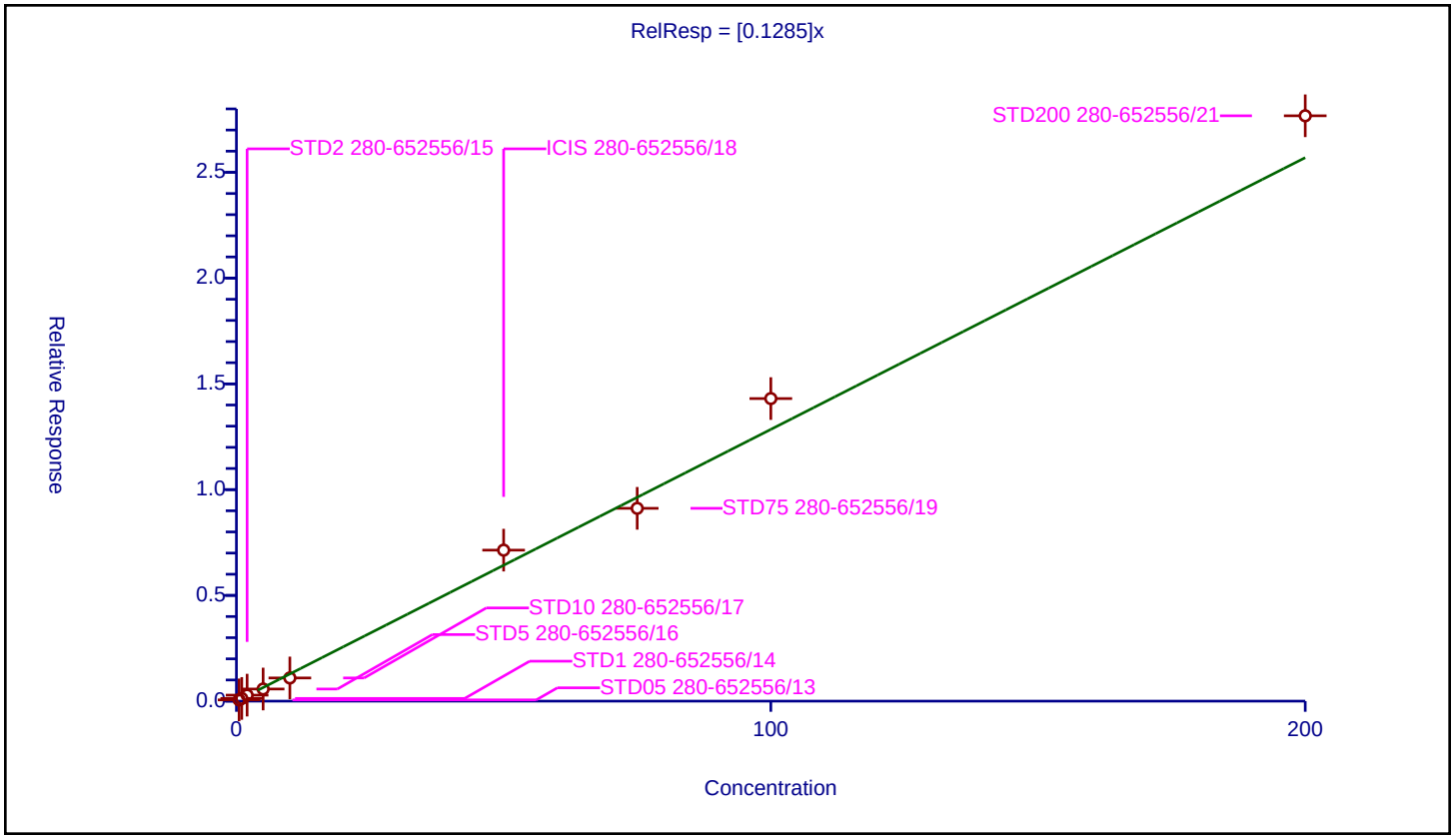
Curve Coefficients

Intercept:	0
Slope:	0.1285

Error Coefficients

Relative Standard Deviation:	10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.05849	50.0	1526758.0	0.11698	Y
2	STD1 280-652556/14	1.0	0.127417	50.0	1562581.0	0.127417	Y
3	STD2 280-652556/15	2.0	0.283596	50.0	1595053.0	0.141798	Y
4	STD5 280-652556/16	5.0	0.573364	50.0	1642587.0	0.114673	Y
5	STD10 280-652556/17	10.0	1.096225	50.0	1555702.0	0.109623	Y
6	ICIS 280-652556/18	50.0	7.139361	50.0	1640721.0	0.142787	Y
7	STD75 280-652556/19	75.0	9.116496	50.0	1645380.0	0.121553	Y
8	STD100 280-652556/20	100.0	14.304535	50.0	1692264.0	0.143045	Y
9	STD200 280-652556/21	200.0	27.673407	50.0	1731545.0	0.138367	Y



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Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

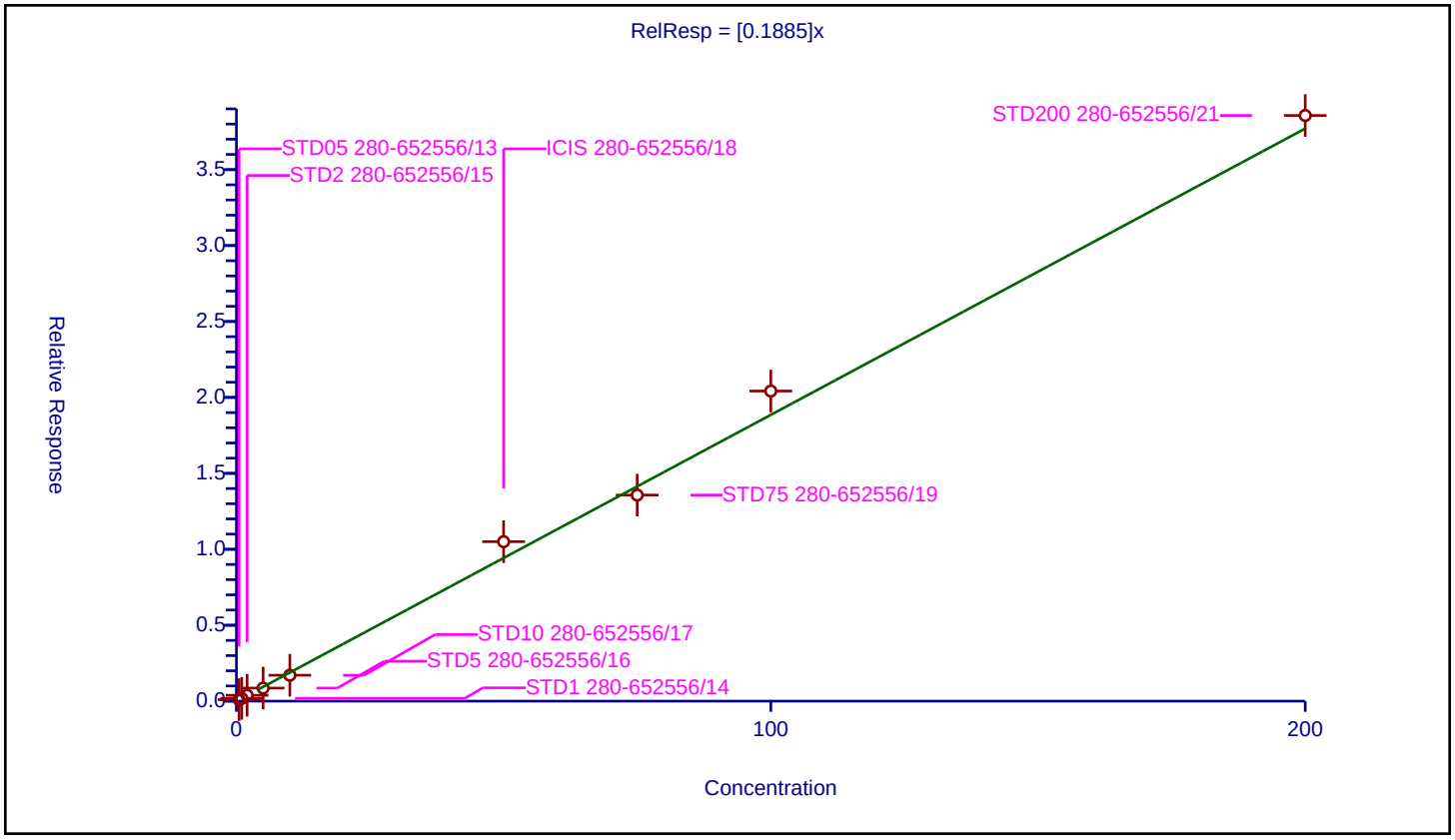
Curve Coefficients

Intercept:	0
Slope:	0.1885

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.095005	50.0	1526758.0	0.19001	Y
2	STD1 280-652556/14	1.0	0.183159	50.0	1562581.0	0.183159	Y
3	STD2 280-652556/15	2.0	0.3861	50.0	1595053.0	0.19305	Y
4	STD5 280-652556/16	5.0	0.859863	50.0	1642587.0	0.171973	Y
5	STD10 280-652556/17	10.0	1.705532	50.0	1555702.0	0.170553	Y
6	ICIS 280-652556/18	50.0	10.501359	50.0	1640721.0	0.210027	Y
7	STD75 280-652556/19	75.0	13.568051	50.0	1645380.0	0.180907	Y
8	STD100 280-652556/20	100.0	20.419243	50.0	1692264.0	0.204192	Y
9	STD200 280-652556/21	200.0	38.565761	50.0	1731545.0	0.192829	Y



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Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

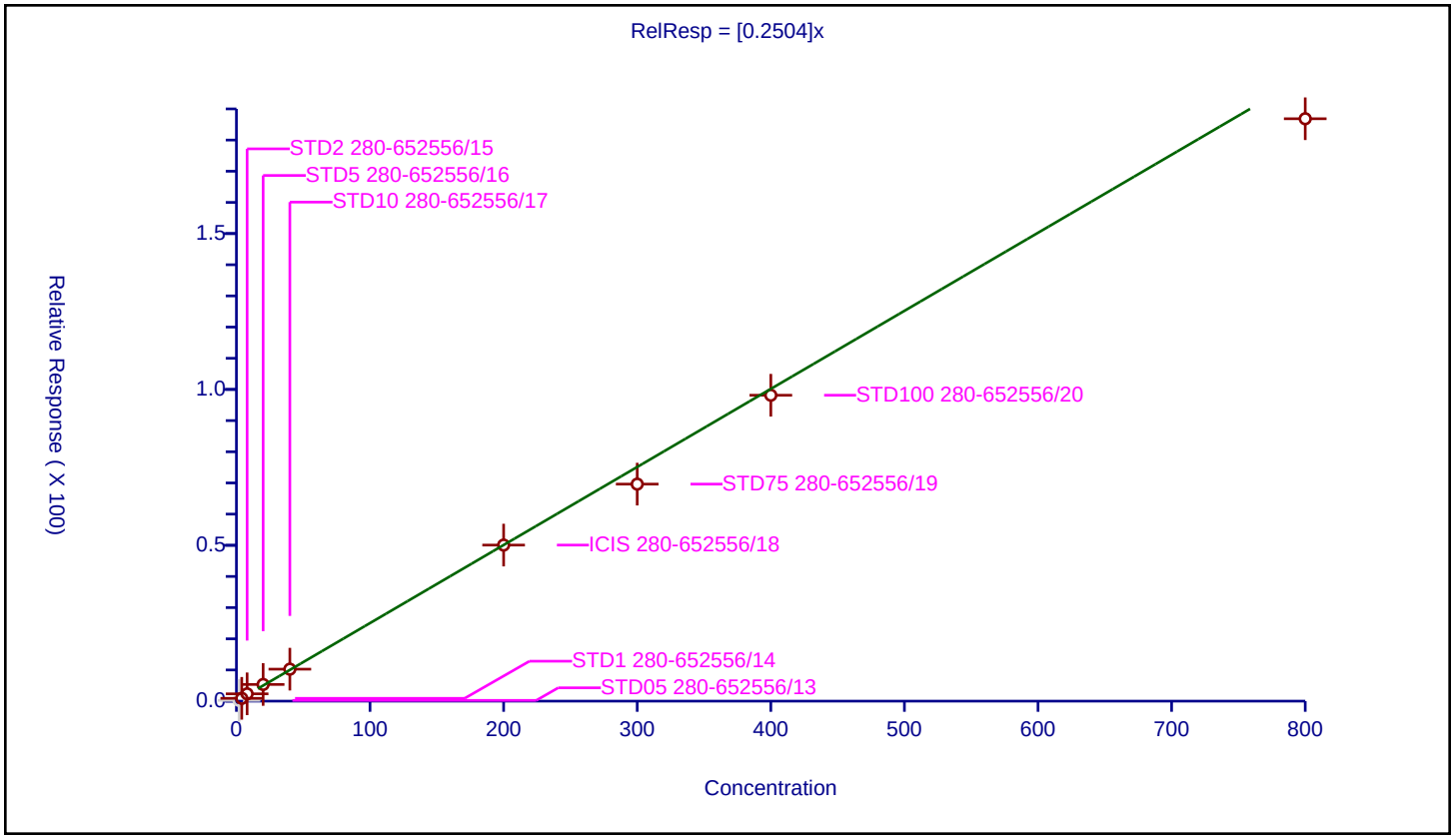
Curve Coefficients

Intercept:	0
Slope:	0.2504

Error Coefficients

Relative Standard Deviation:	8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	2.0	0.246863	50.0	1526758.0	0.123431	N
2	STD1 280-652556/14	4.0	0.899409	50.0	1562581.0	0.224852	Y
3	STD2 280-652556/15	8.0	2.346004	50.0	1595053.0	0.29325	Y
4	STD5 280-652556/16	20.0	5.350858	50.0	1642587.0	0.267543	Y
5	STD10 280-652556/17	40.0	10.255467	50.0	1555702.0	0.256387	Y
6	ICIS 280-652556/18	200.0	50.067836	50.0	1640721.0	0.250339	Y
7	STD75 280-652556/19	300.0	69.62887	50.0	1645380.0	0.232096	Y
8	STD100 280-652556/20	400.0	98.137081	50.0	1692264.0	0.245343	Y
9	STD200 280-652556/21	800.0	186.838921	50.0	1731545.0	0.233549	Y



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Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

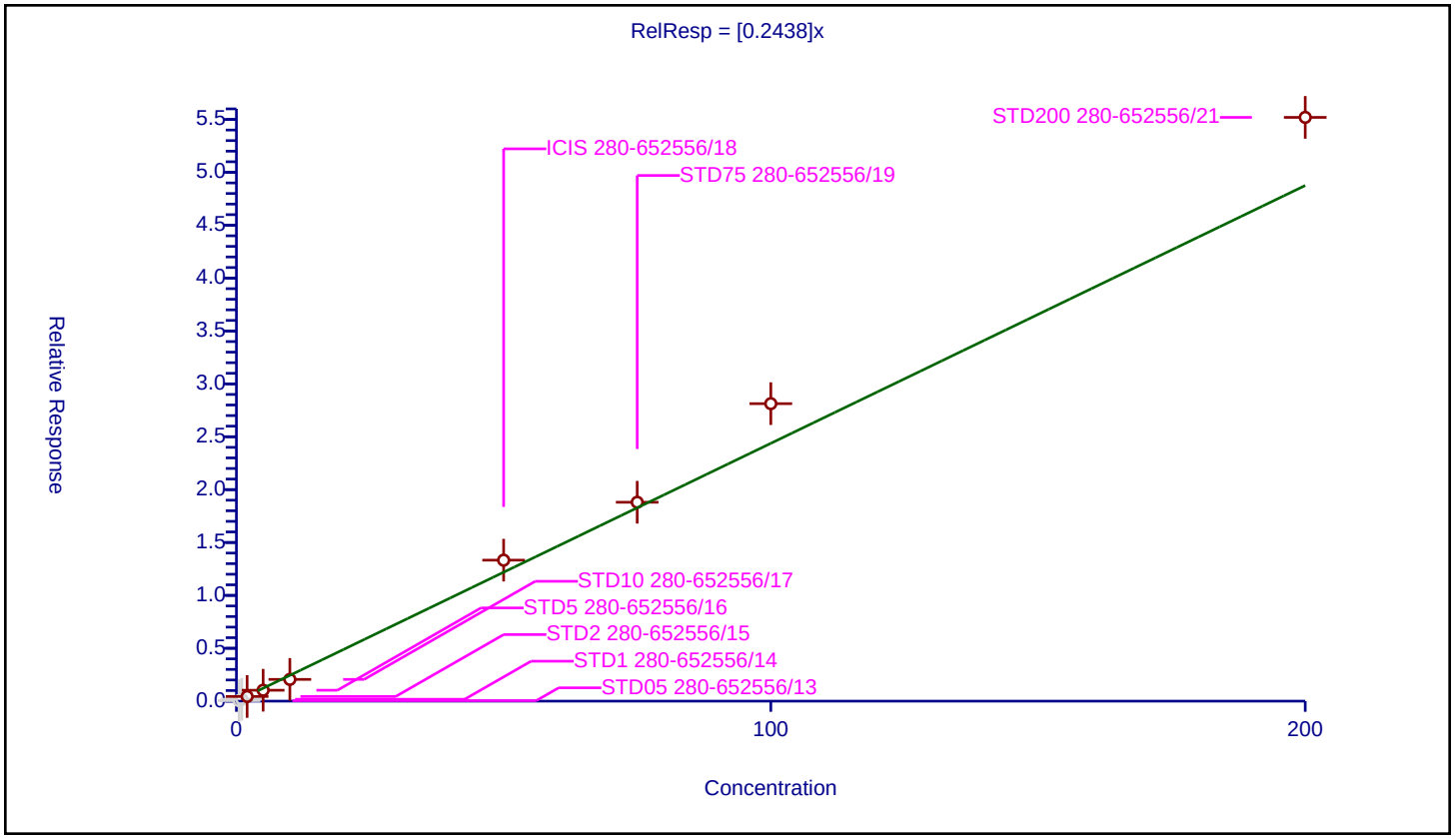
Curve Coefficients

Intercept:	0
Slope:	0.2438

Error Coefficients

Relative Standard Deviation:	13.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.046635	50.0	1526758.0	0.09327	N
2	STD1 280-652556/14	1.0	0.177047	50.0	1562581.0	0.177047	N
3	STD2 280-652556/15	2.0	0.439421	50.0	1595053.0	0.219711	Y
4	STD5 280-652556/16	5.0	1.032031	50.0	1642587.0	0.206406	Y
5	STD10 280-652556/17	10.0	2.056499	50.0	1555702.0	0.20565	Y
6	ICIS 280-652556/18	50.0	13.329932	50.0	1640721.0	0.266599	Y
7	STD75 280-652556/19	75.0	18.806051	50.0	1645380.0	0.250747	Y
8	STD100 280-652556/20	100.0	28.128826	50.0	1692264.0	0.281288	Y
9	STD200 280-652556/21	200.0	55.197237	50.0	1731545.0	0.275986	Y



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Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

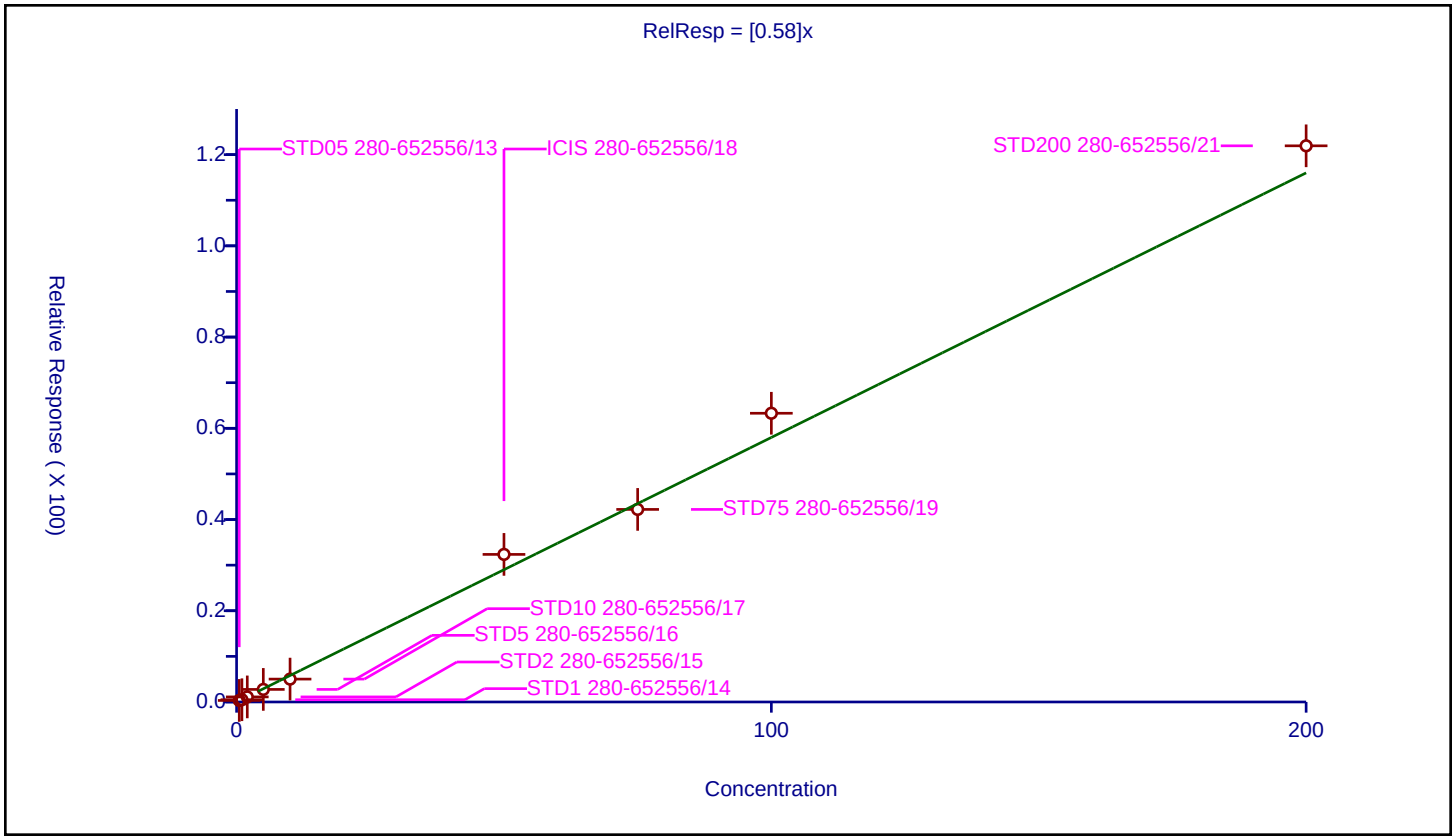
Curve Coefficients

Intercept:	0
Slope:	0.58

Error Coefficients

Relative Standard Deviation:	10.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.333419	50.0	1526758.0	0.666838	Y
2	STD1 280-652556/14	1.0	0.491207	50.0	1562581.0	0.491207	Y
3	STD2 280-652556/15	2.0	1.112753	50.0	1595053.0	0.556376	Y
4	STD5 280-652556/16	5.0	2.753827	50.0	1642587.0	0.550765	Y
5	STD10 280-652556/17	10.0	5.019149	50.0	1555702.0	0.501915	Y
6	ICIS 280-652556/18	50.0	32.358853	50.0	1640721.0	0.647177	Y
7	STD75 280-652556/19	75.0	42.216479	50.0	1645380.0	0.562886	Y
8	STD100 280-652556/20	100.0	63.297984	50.0	1692264.0	0.63298	Y
9	STD200 280-652556/21	200.0	121.929404	50.0	1731545.0	0.609647	Y



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Calibration / Methyl acetate

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

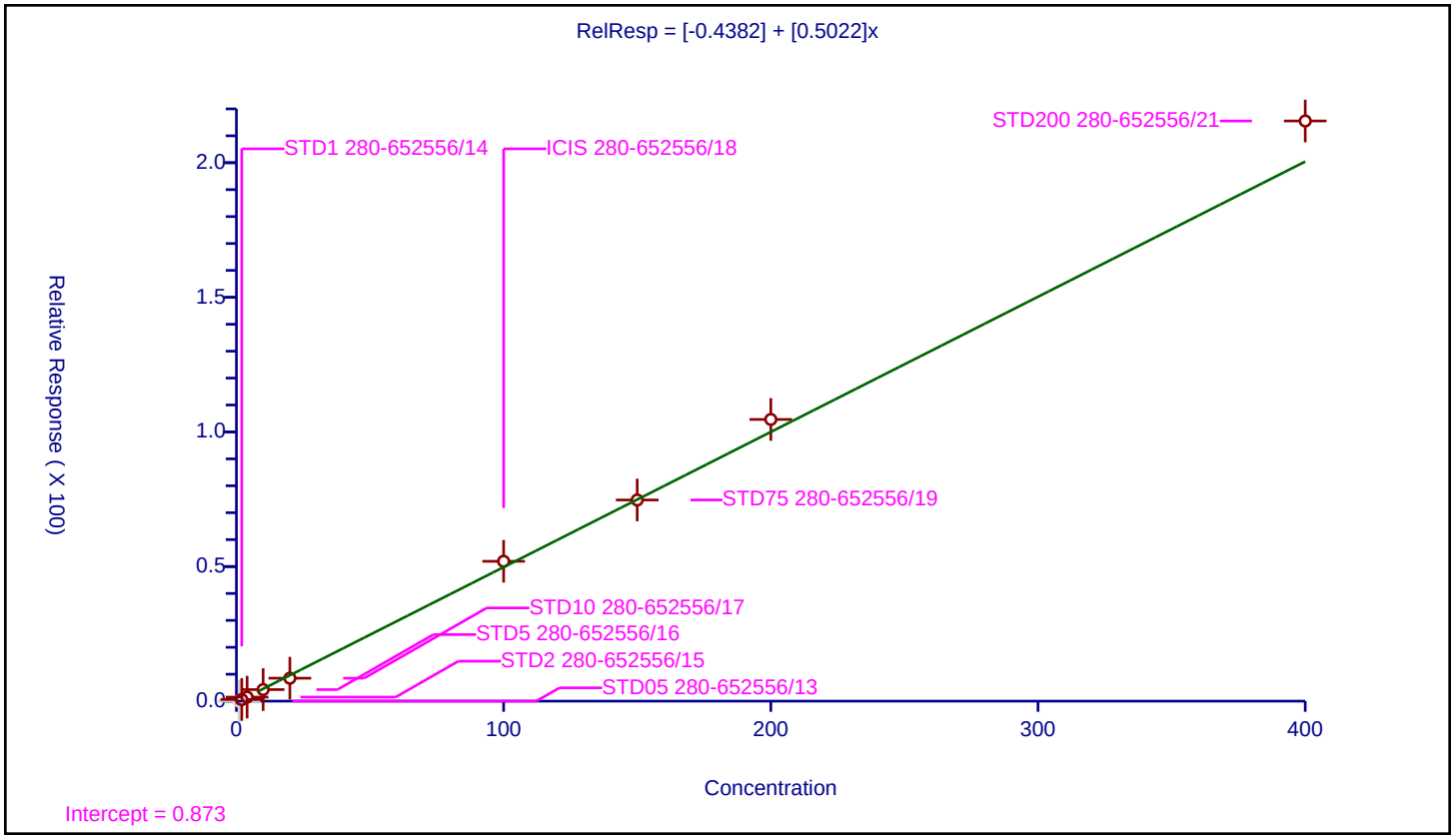
Curve Coefficients

Intercept:	-0.4382
Slope:	0.5022

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	1.0	0.0	50.0	1526758.0	0.0	N
2	STD1 280-652556/14	2.0	0.604577	50.0	1562581.0	0.302288	Y
3	STD2 280-652556/15	4.0	1.49948	50.0	1595053.0	0.37487	Y
4	STD5 280-652556/16	10.0	4.292436	50.0	1642587.0	0.429244	Y
5	STD10 280-652556/17	20.0	8.528176	50.0	1555702.0	0.426409	Y
6	ICIS 280-652556/18	100.0	51.943262	50.0	1640721.0	0.519433	Y
7	STD75 280-652556/19	150.0	74.724684	50.0	1645380.0	0.498165	Y
8	STD100 280-652556/20	200.0	104.640233	50.0	1692264.0	0.523201	Y
9	STD200 280-652556/21	400.0	215.50569	50.0	1731545.0	0.538764	Y



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Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

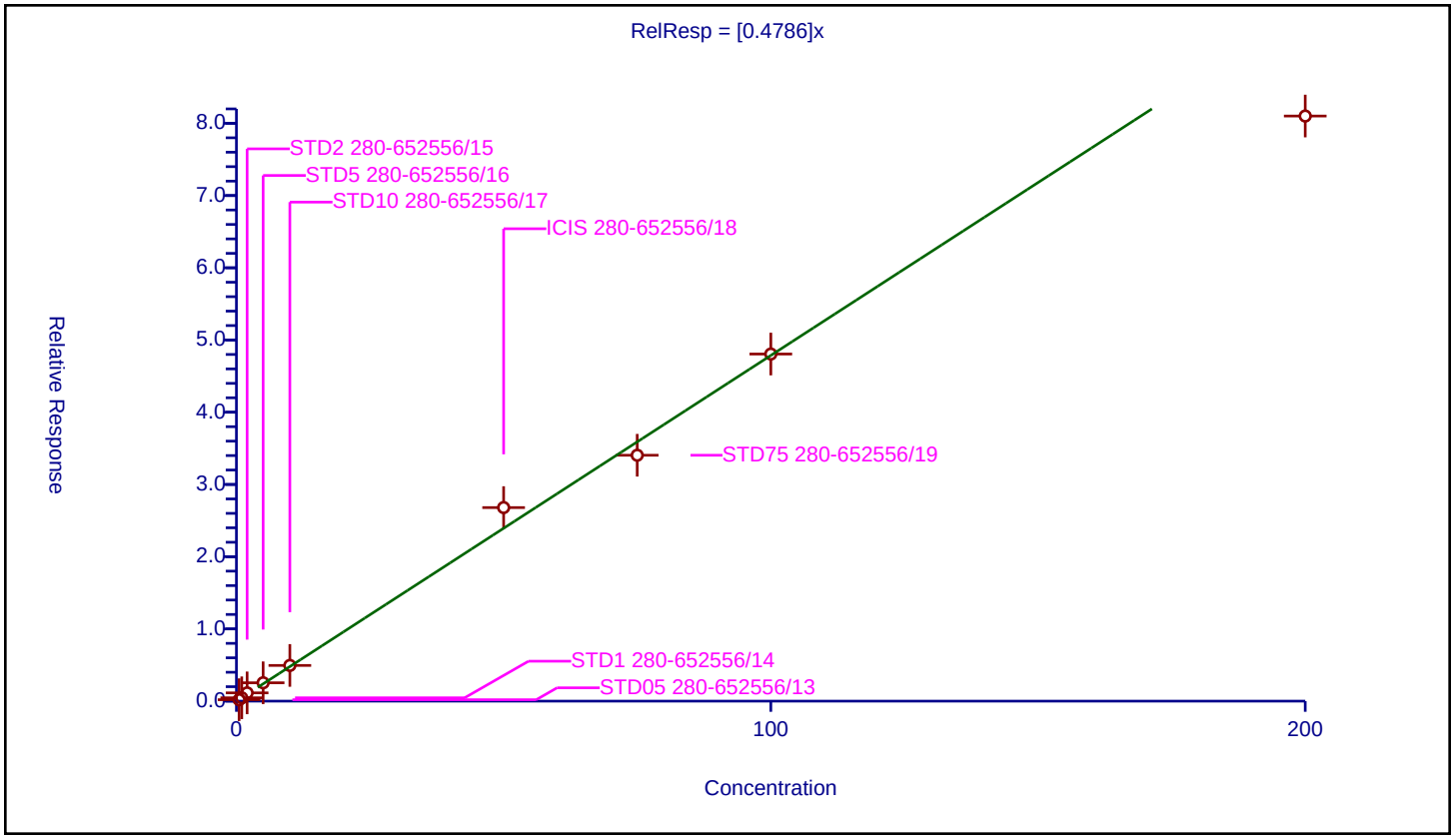
Curve Coefficients

Intercept:	0
Slope:	0.4786

Error Coefficients

Relative Standard Deviation:	12.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.197346	50.0	1526758.0	0.394693	Y
2	STD1 280-652556/14	1.0	0.461544	50.0	1562581.0	0.461544	Y
3	STD2 280-652556/15	2.0	1.145824	50.0	1595053.0	0.572912	Y
4	STD5 280-652556/16	5.0	2.543244	50.0	1642587.0	0.508649	Y
5	STD10 280-652556/17	10.0	4.944392	50.0	1555702.0	0.494439	Y
6	ICIS 280-652556/18	50.0	26.799773	50.0	1640721.0	0.535995	Y
7	STD75 280-652556/19	75.0	34.047302	50.0	1645380.0	0.453964	Y
8	STD100 280-652556/20	100.0	48.059109	50.0	1692264.0	0.480591	Y
9	STD200 280-652556/21	200.0	81.010658	50.0	1731545.0	0.405053	Y



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Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

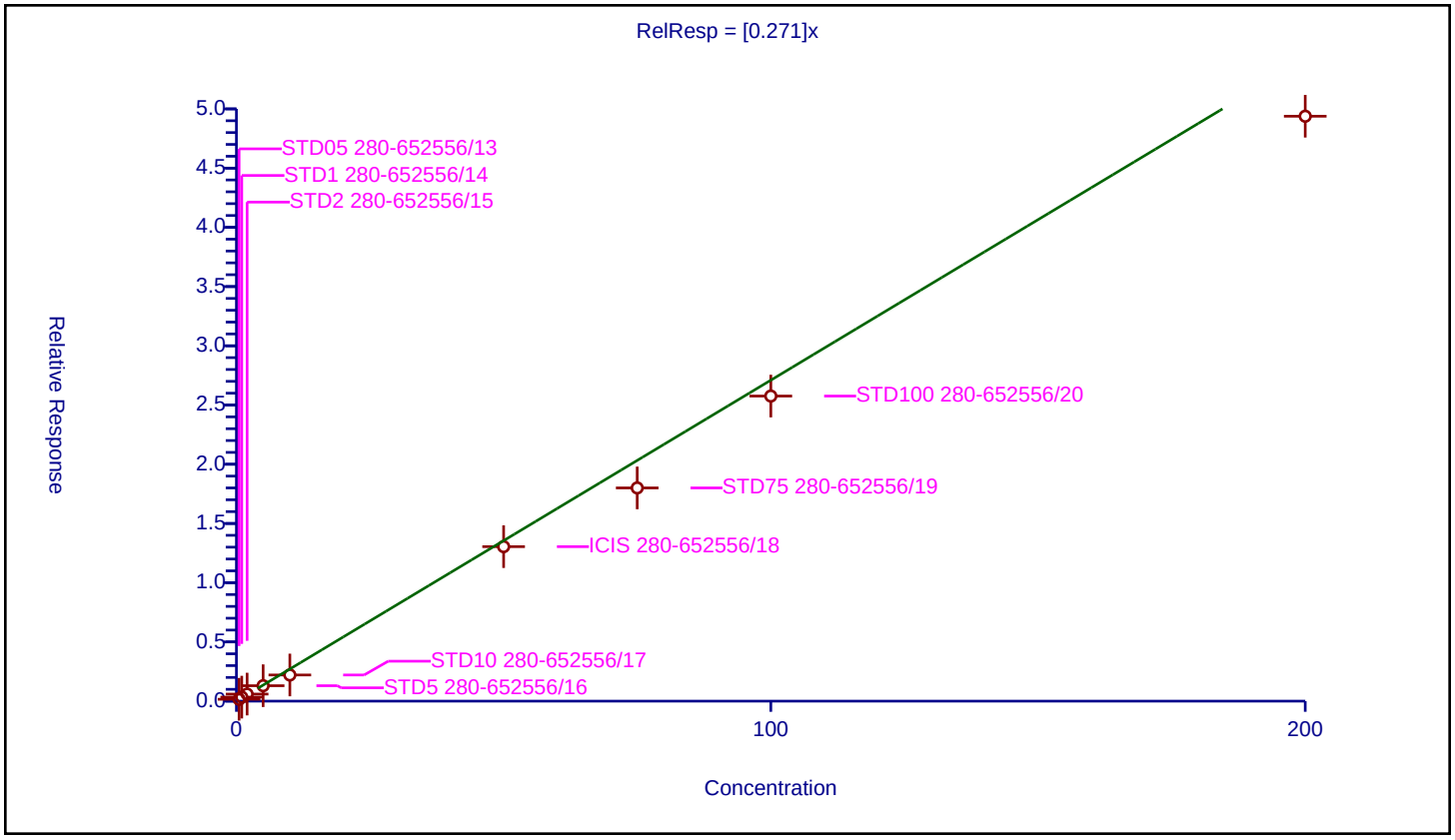
Curve Coefficients

Intercept:	0
Slope:	0.271

Error Coefficients

Relative Standard Deviation:	14.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.157916	50.0	1526758.0	0.315833	Y
2	STD1 280-652556/14	1.0	0.337678	50.0	1562581.0	0.337678	Y
3	STD2 280-652556/15	2.0	0.596469	50.0	1595053.0	0.298235	Y
4	STD5 280-652556/16	5.0	1.30331	50.0	1642587.0	0.260662	Y
5	STD10 280-652556/17	10.0	2.210096	50.0	1555702.0	0.22101	Y
6	ICIS 280-652556/18	50.0	13.043077	50.0	1640721.0	0.260862	Y
7	STD75 280-652556/19	75.0	18.000249	50.0	1645380.0	0.240003	Y
8	STD100 280-652556/20	100.0	25.756442	50.0	1692264.0	0.257564	Y
9	STD200 280-652556/21	200.0	49.3796	50.0	1731545.0	0.246898	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

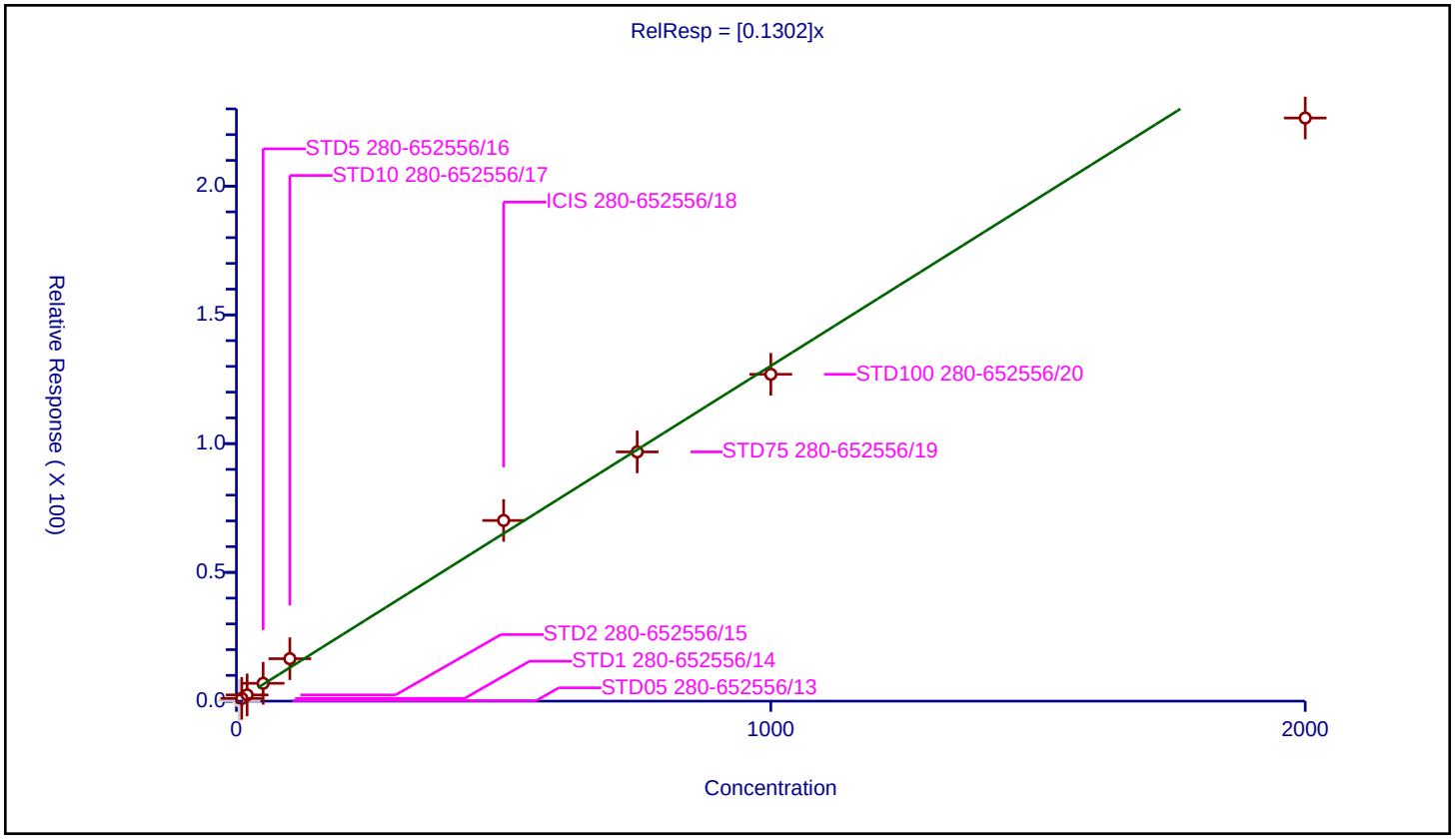
Curve Coefficients

Intercept:	0
Slope:	0.1302

Error Coefficients

Relative Standard Deviation:	13.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	5.0	0.188799	50.0	1526758.0	0.03776	N
2	STD1 280-652556/14	10.0	1.0754	50.0	1562581.0	0.10754	Y
3	STD2 280-652556/15	20.0	2.426502	50.0	1595053.0	0.121325	Y
4	STD5 280-652556/16	50.0	6.920851	50.0	1642587.0	0.138417	Y
5	STD10 280-652556/17	100.0	16.478991	50.0	1555702.0	0.16479	Y
6	ICIS 280-652556/18	500.0	70.163788	50.0	1640721.0	0.140328	Y
7	STD75 280-652556/19	750.0	96.791592	50.0	1645380.0	0.129055	Y
8	STD100 280-652556/20	1000.0	126.927152	50.0	1692264.0	0.126927	Y
9	STD200 280-652556/21	2000.0	226.456286	50.0	1731545.0	0.113228	Y



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Calibration / Acrylonitrile

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

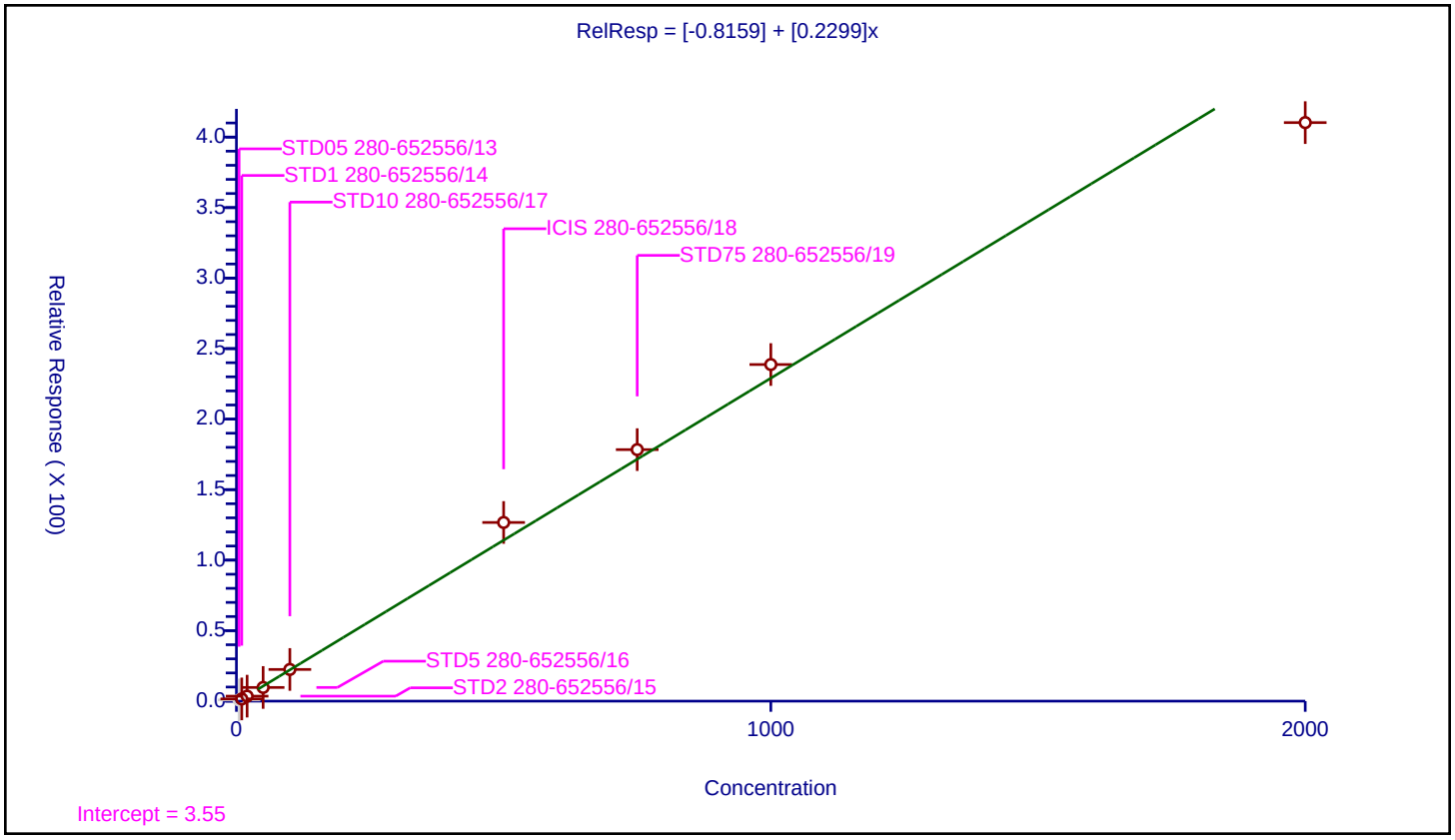
Curve Coefficients

Intercept:	-0.8159
Slope:	0.2299

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	5.0	0.833695	50.0	1526758.0	0.166739	N
2	STD1 280-652556/14	10.0	1.572462	50.0	1562581.0	0.157246	Y
3	STD2 280-652556/15	20.0	3.542735	50.0	1595053.0	0.177137	Y
4	STD5 280-652556/16	50.0	9.698634	50.0	1642587.0	0.193973	Y
5	STD10 280-652556/17	100.0	22.460343	50.0	1555702.0	0.224603	Y
6	ICIS 280-652556/18	500.0	126.709538	50.0	1640721.0	0.253419	Y
7	STD75 280-652556/19	750.0	178.360136	50.0	1645380.0	0.237814	Y
8	STD100 280-652556/20	1000.0	238.706993	50.0	1692264.0	0.238707	Y
9	STD200 280-652556/21	2000.0	410.276314	50.0	1731545.0	0.205138	Y



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Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

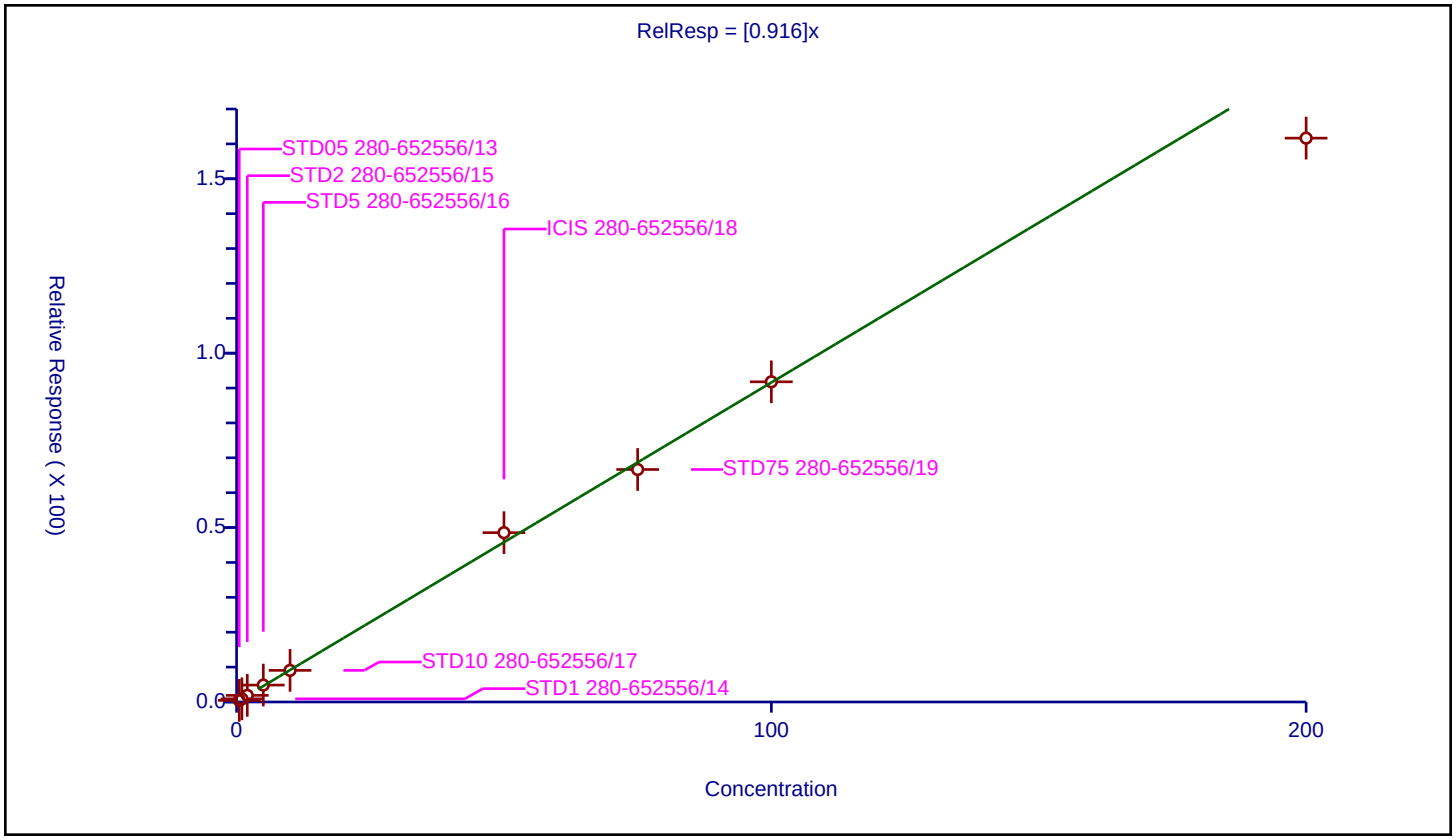
Curve Coefficients

Intercept:	0
Slope:	0.916

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.461042	50.0	1526758.0	0.922085	Y
2	STD1 280-652556/14	1.0	0.908689	50.0	1562581.0	0.908689	Y
3	STD2 280-652556/15	2.0	1.903166	50.0	1595053.0	0.951583	Y
4	STD5 280-652556/16	5.0	4.848084	50.0	1642587.0	0.969617	Y
5	STD10 280-652556/17	10.0	9.061408	50.0	1555702.0	0.906141	Y
6	ICIS 280-652556/18	50.0	48.540428	50.0	1640721.0	0.970809	Y
7	STD75 280-652556/19	75.0	66.650348	50.0	1645380.0	0.888671	Y
8	STD100 280-652556/20	100.0	91.786979	50.0	1692264.0	0.91787	Y
9	STD200 280-652556/21	200.0	161.651213	50.0	1731545.0	0.808256	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

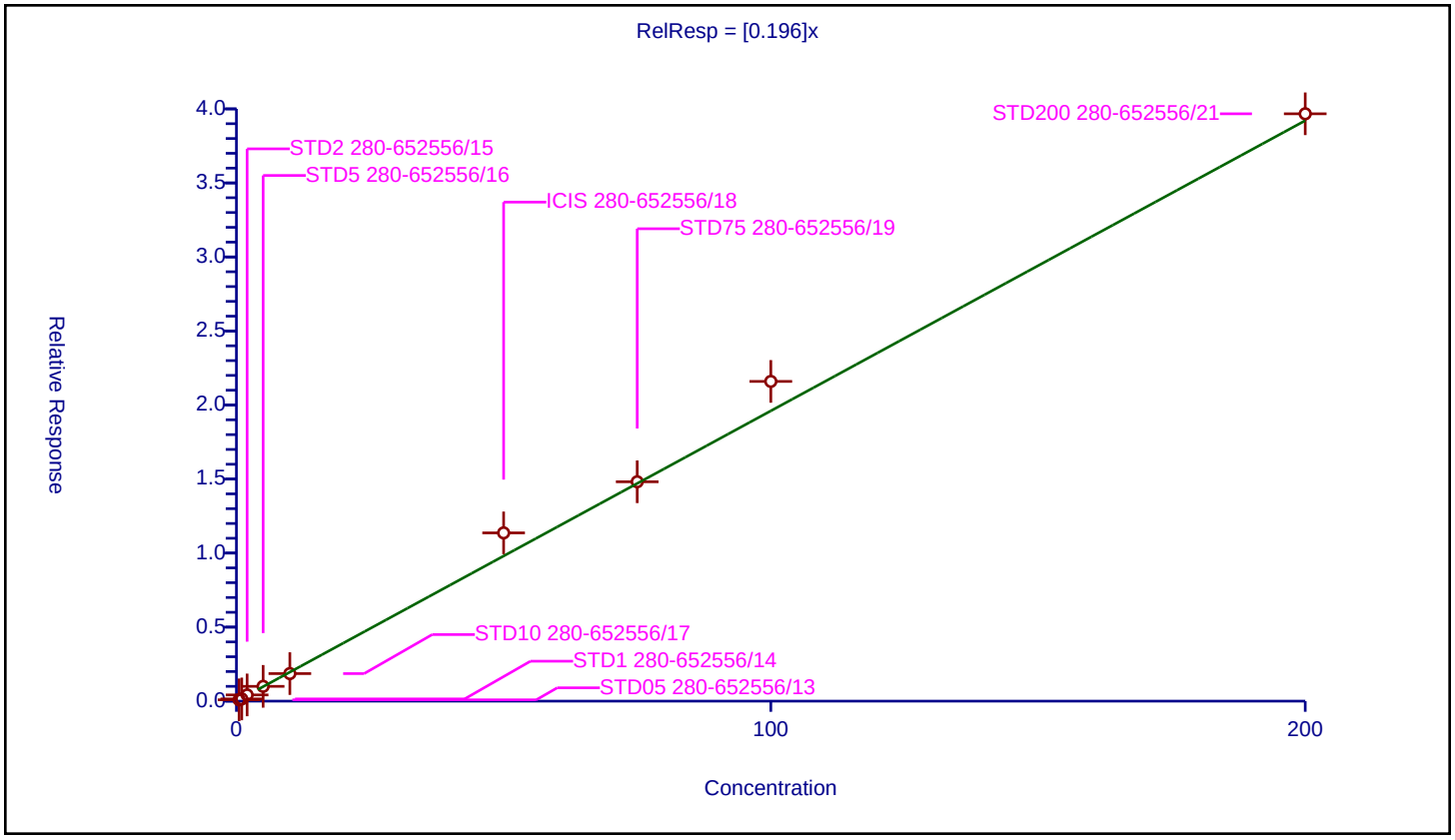
Curve Coefficients

Intercept:	0
Slope:	0.196

Error Coefficients

Relative Standard Deviation:	11.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.089176	50.0	1526758.0	0.178352	Y
2	STD1 280-652556/14	1.0	0.150584	50.0	1562581.0	0.150584	Y
3	STD2 280-652556/15	2.0	0.420801	50.0	1595053.0	0.210401	Y
4	STD5 280-652556/16	5.0	0.998943	50.0	1642587.0	0.199789	Y
5	STD10 280-652556/17	10.0	1.861057	50.0	1555702.0	0.186106	Y
6	ICIS 280-652556/18	50.0	11.364668	50.0	1640721.0	0.227293	Y
7	STD75 280-652556/19	75.0	14.815818	50.0	1645380.0	0.197544	Y
8	STD100 280-652556/20	100.0	21.59468	50.0	1692264.0	0.215947	Y
9	STD200 280-652556/21	200.0	39.669746	50.0	1731545.0	0.198349	Y



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Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

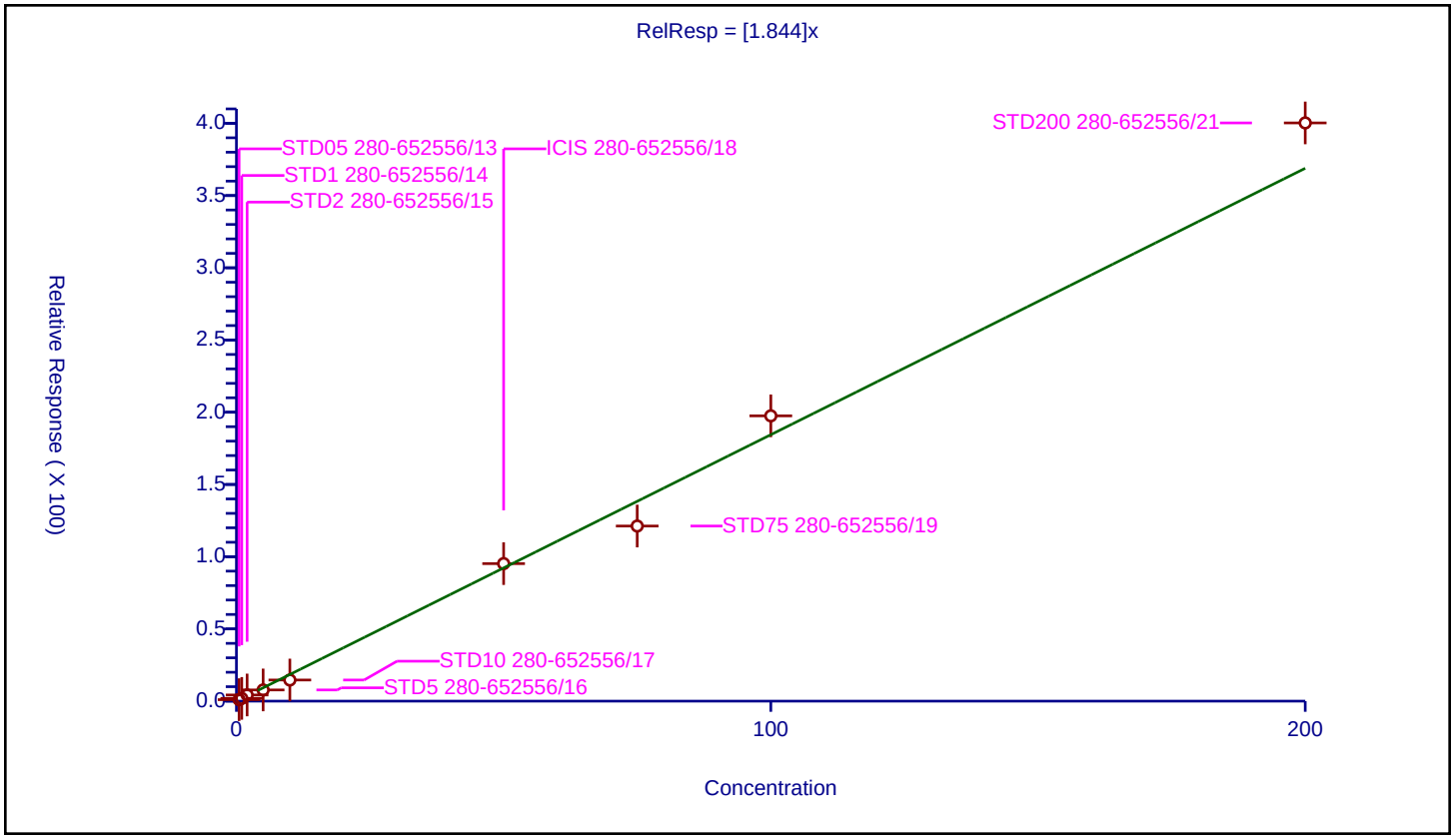
Curve Coefficients

Intercept:	0
Slope:	1.844

Error Coefficients

Relative Standard Deviation:	13.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	1.026208	50.0	305932.0	2.052417	Y
2	STD1 280-652556/14	1.0	1.902757	50.0	321402.0	1.902757	Y
3	STD2 280-652556/15	2.0	4.26825	50.0	330639.0	2.134125	Y
4	STD5 280-652556/16	5.0	7.752758	50.0	336132.0	1.550552	Y
5	STD10 280-652556/17	10.0	14.631705	50.0	336632.0	1.46317	Y
6	ICIS 280-652556/18	50.0	95.210014	50.0	347976.0	1.9042	Y
7	STD75 280-652556/19	75.0	121.21489	50.0	350287.0	1.616199	Y
8	STD100 280-652556/20	100.0	197.502333	50.0	351468.0	1.975023	Y
9	STD200 280-652556/21	200.0	400.286054	50.0	344340.0	2.00143	Y



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Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

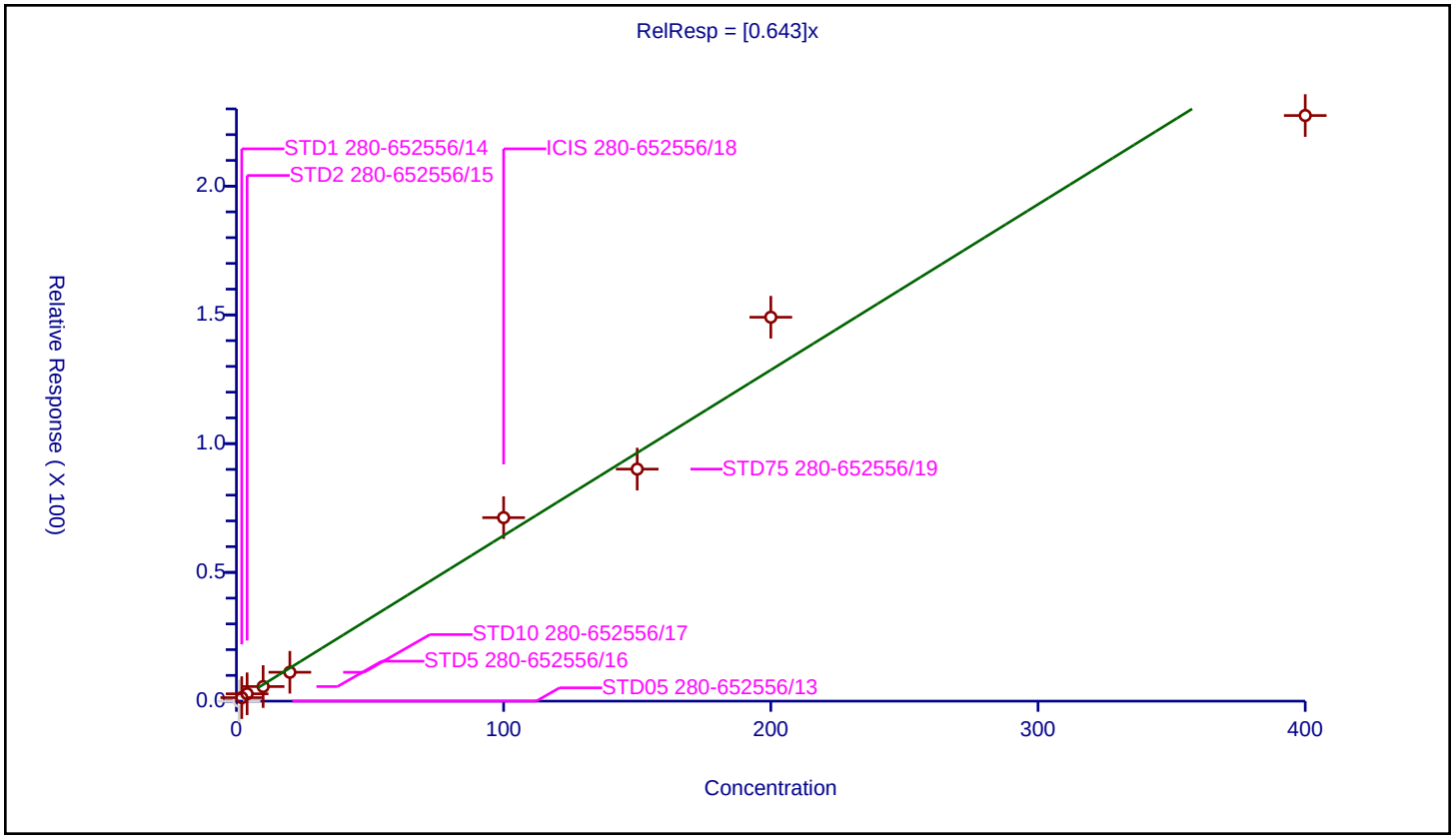
Curve Coefficients

Intercept:	0
Slope:	0.643

Error Coefficients

Relative Standard Deviation:	11.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	1.0	0.0	50.0	1526758.0	0.0	N
2	STD1 280-652556/14	2.0	1.357114	50.0	1562581.0	0.678557	Y
3	STD2 280-652556/15	4.0	2.845579	50.0	1595053.0	0.711395	Y
4	STD5 280-652556/16	10.0	5.660157	50.0	1642587.0	0.566016	Y
5	STD10 280-652556/17	20.0	11.21828	50.0	1555702.0	0.560914	Y
6	ICIS 280-652556/18	100.0	71.261567	50.0	1640721.0	0.712616	Y
7	STD75 280-652556/19	150.0	90.102833	50.0	1645380.0	0.600686	Y
8	STD100 280-652556/20	200.0	149.097954	50.0	1692264.0	0.74549	Y
9	STD200 280-652556/21	400.0	227.422677	50.0	1731545.0	0.568557	Y



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Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

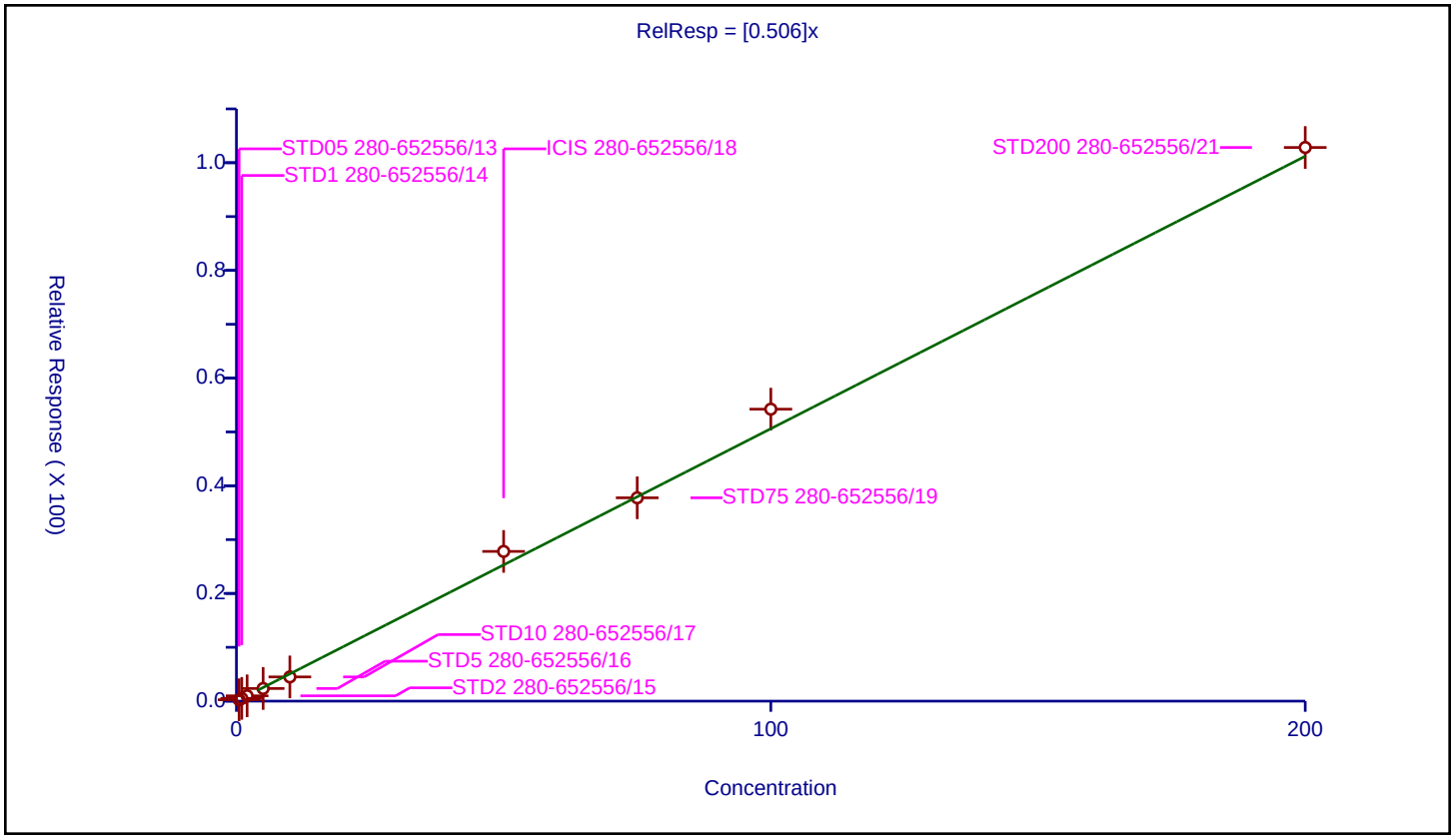
Curve Coefficients

Intercept:	0
Slope:	0.506

Error Coefficients

Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.256262	50.0	1526758.0	0.512524	Y
2	STD1 280-652556/14	1.0	0.512965	50.0	1562581.0	0.512965	Y
3	STD2 280-652556/15	2.0	0.98702	50.0	1595053.0	0.49351	Y
4	STD5 280-652556/16	5.0	2.346025	50.0	1642587.0	0.469205	Y
5	STD10 280-652556/17	10.0	4.498419	50.0	1555702.0	0.449842	Y
6	ICIS 280-652556/18	50.0	27.806647	50.0	1640721.0	0.556133	Y
7	STD75 280-652556/19	75.0	37.764377	50.0	1645380.0	0.503525	Y
8	STD100 280-652556/20	100.0	54.229305	50.0	1692264.0	0.542293	Y
9	STD200 280-652556/21	200.0	102.833625	50.0	1731545.0	0.514168	Y



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Calibration / 2-Butanone (MEK)

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

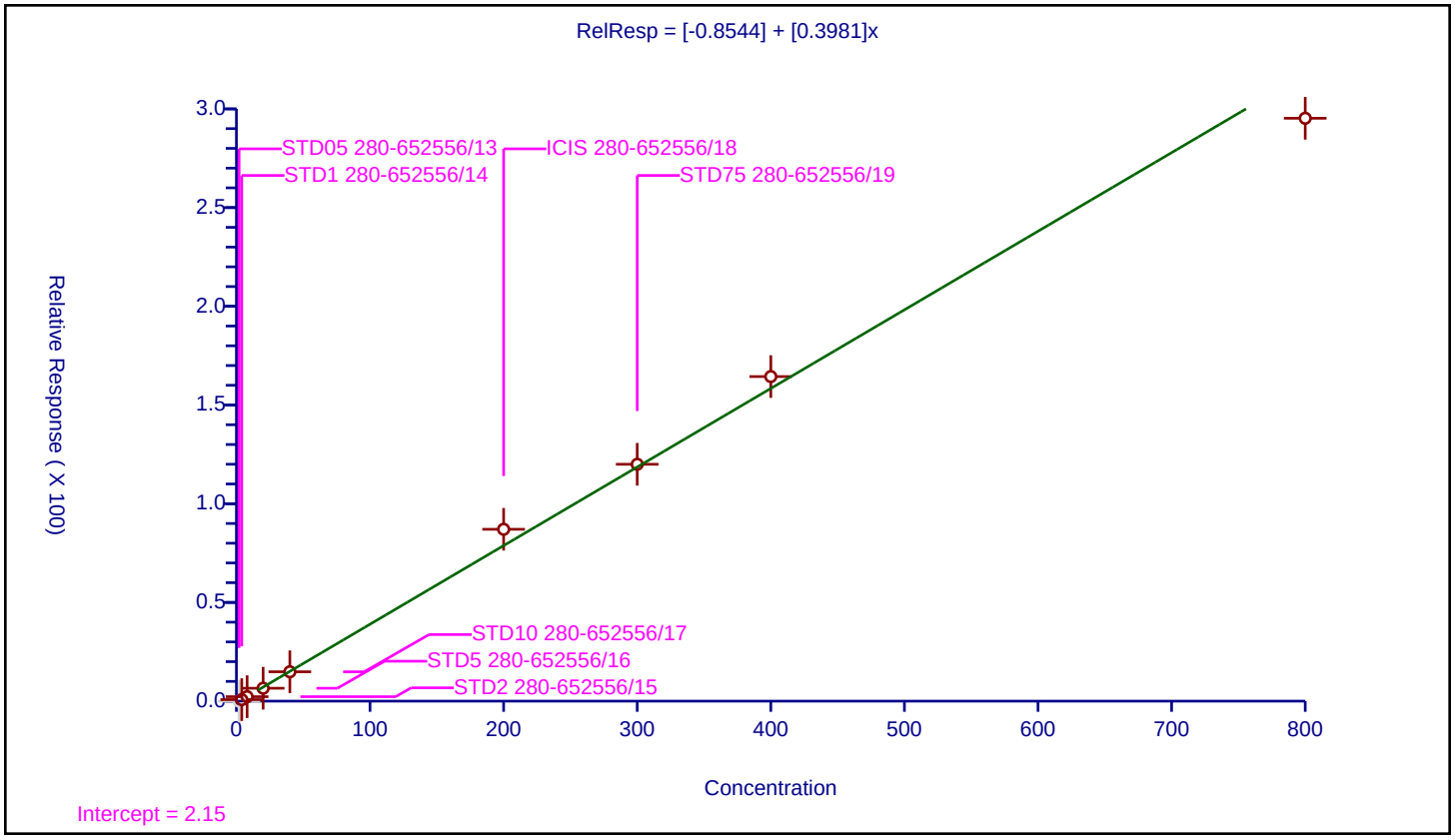
Curve Coefficients

Intercept:	-0.8544
Slope:	0.3981

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	2.0	0.0	50.0	1526758.0	0.0	N
2	STD1 280-652556/14	4.0	0.778808	50.0	1562581.0	0.194702	Y
3	STD2 280-652556/15	8.0	2.253311	50.0	1595053.0	0.281664	Y
4	STD5 280-652556/16	20.0	6.532409	50.0	1642587.0	0.32662	Y
5	STD10 280-652556/17	40.0	14.879392	50.0	1555702.0	0.371985	Y
6	ICIS 280-652556/18	200.0	87.048133	50.0	1640721.0	0.435241	Y
7	STD75 280-652556/19	300.0	119.984988	50.0	1645380.0	0.39995	Y
8	STD100 280-652556/20	400.0	164.407297	50.0	1692264.0	0.411018	Y
9	STD200 280-652556/21	800.0	295.253805	50.0	1731545.0	0.369067	Y



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Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

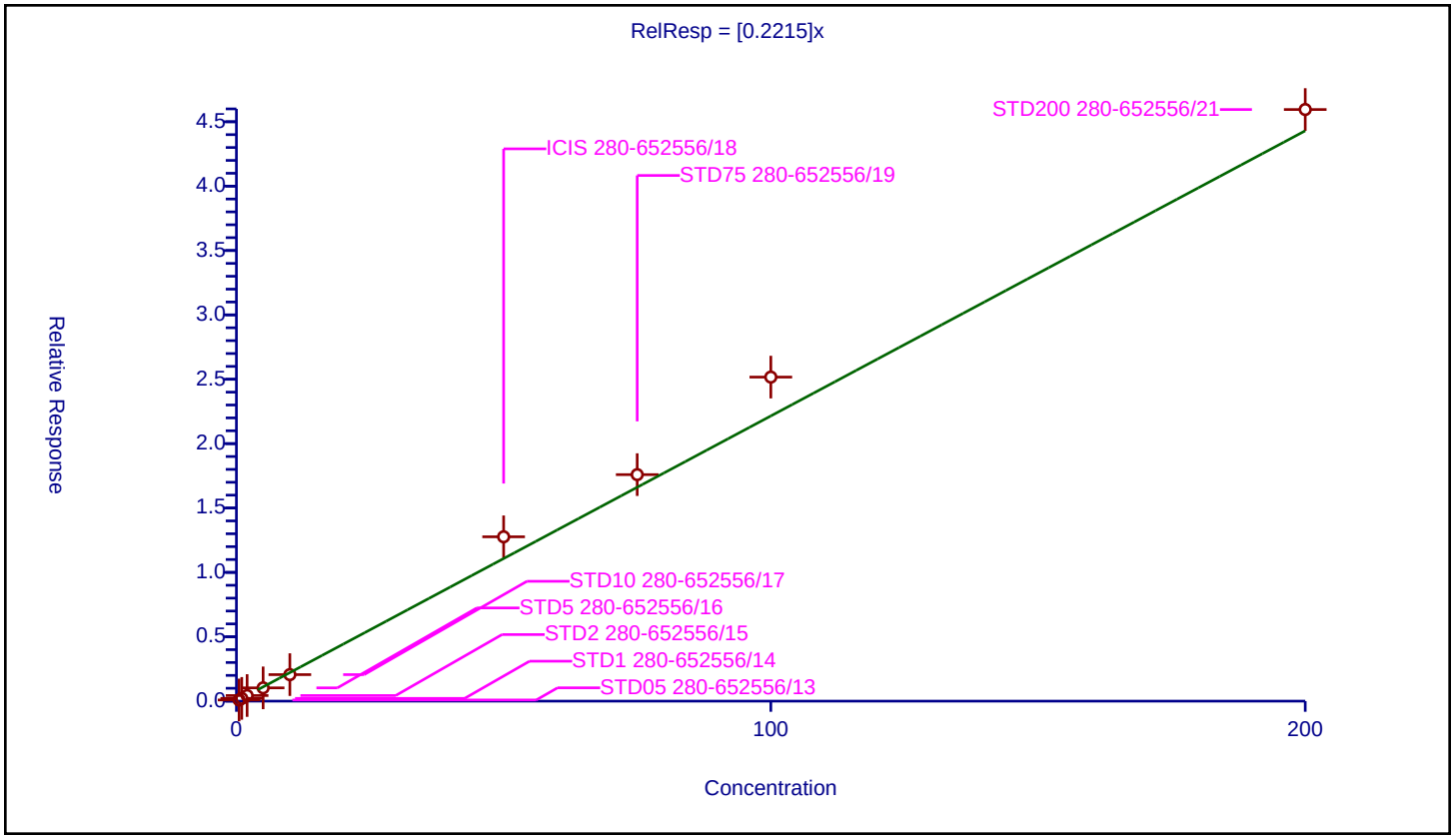
Curve Coefficients

Intercept:	0
Slope:	0.2215

Error Coefficients

Relative Standard Deviation:	10.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.089143	50.0	1526758.0	0.178286	Y
2	STD1 280-652556/14	1.0	0.213717	50.0	1562581.0	0.213717	Y
3	STD2 280-652556/15	2.0	0.435754	50.0	1595053.0	0.217877	Y
4	STD5 280-652556/16	5.0	1.031696	50.0	1642587.0	0.206339	Y
5	STD10 280-652556/17	10.0	2.059263	50.0	1555702.0	0.205926	Y
6	ICIS 280-652556/18	50.0	12.76384	50.0	1640721.0	0.255277	Y
7	STD75 280-652556/19	75.0	17.593079	50.0	1645380.0	0.234574	Y
8	STD100 280-652556/20	100.0	25.168591	50.0	1692264.0	0.251686	Y
9	STD200 280-652556/21	200.0	45.951101	50.0	1731545.0	0.229756	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

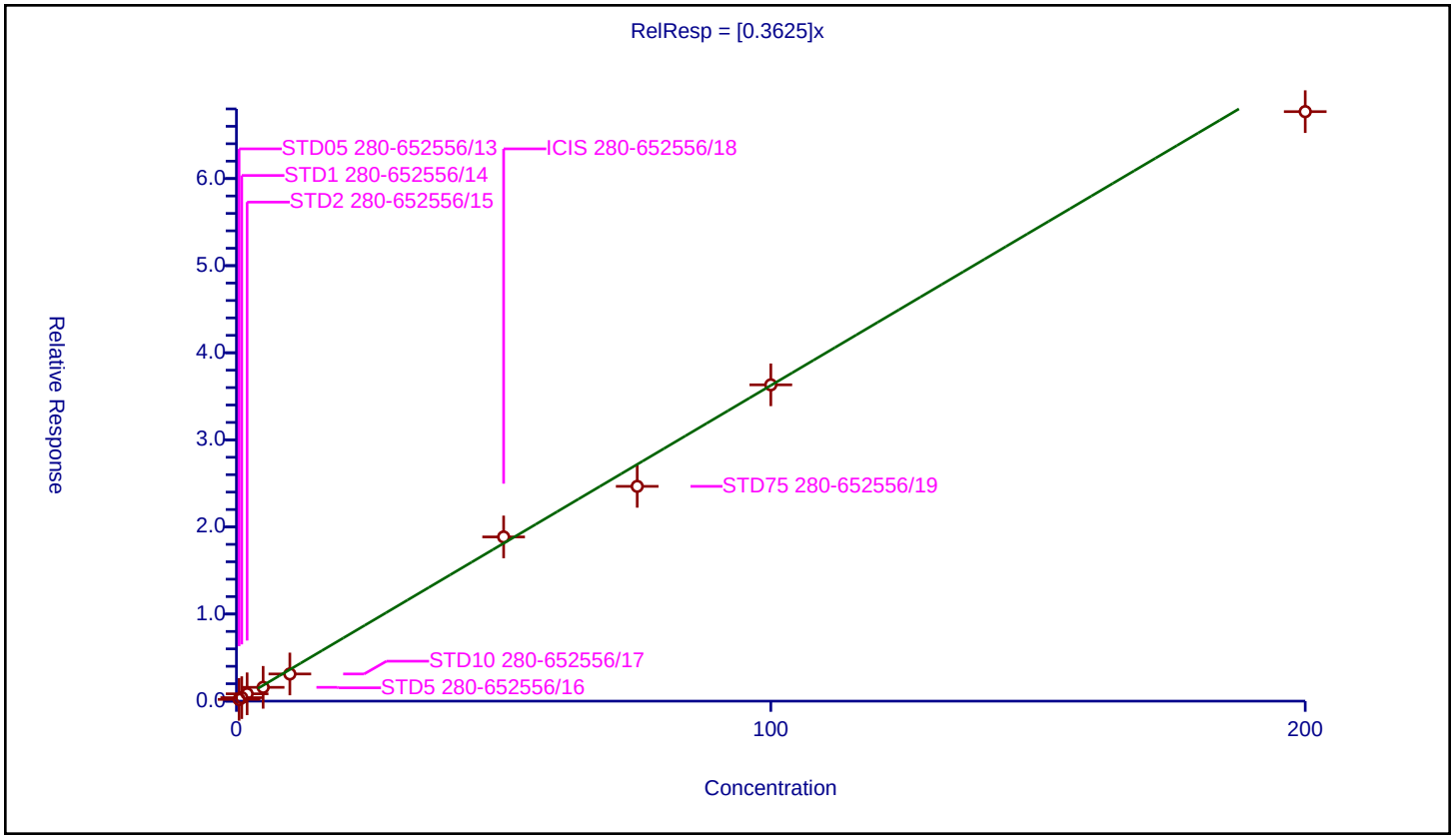
Curve Coefficients

Intercept:	0
Slope:	0.3625

Error Coefficients

Relative Standard Deviation:	11.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.201702	50.0	1526758.0	0.403404	Y
2	STD1 280-652556/14	1.0	0.400939	50.0	1562581.0	0.400939	Y
3	STD2 280-652556/15	2.0	0.841978	50.0	1595053.0	0.420989	Y
4	STD5 280-652556/16	5.0	1.58707	50.0	1642587.0	0.317414	Y
5	STD10 280-652556/17	10.0	3.120263	50.0	1555702.0	0.312026	Y
6	ICIS 280-652556/18	50.0	18.852779	50.0	1640721.0	0.377056	Y
7	STD75 280-652556/19	75.0	24.661628	50.0	1645380.0	0.328822	Y
8	STD100 280-652556/20	100.0	36.318447	50.0	1692264.0	0.363184	Y
9	STD200 280-652556/21	200.0	67.684553	50.0	1731545.0	0.338423	Y



Calibration / sec-Butyl Alcohol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

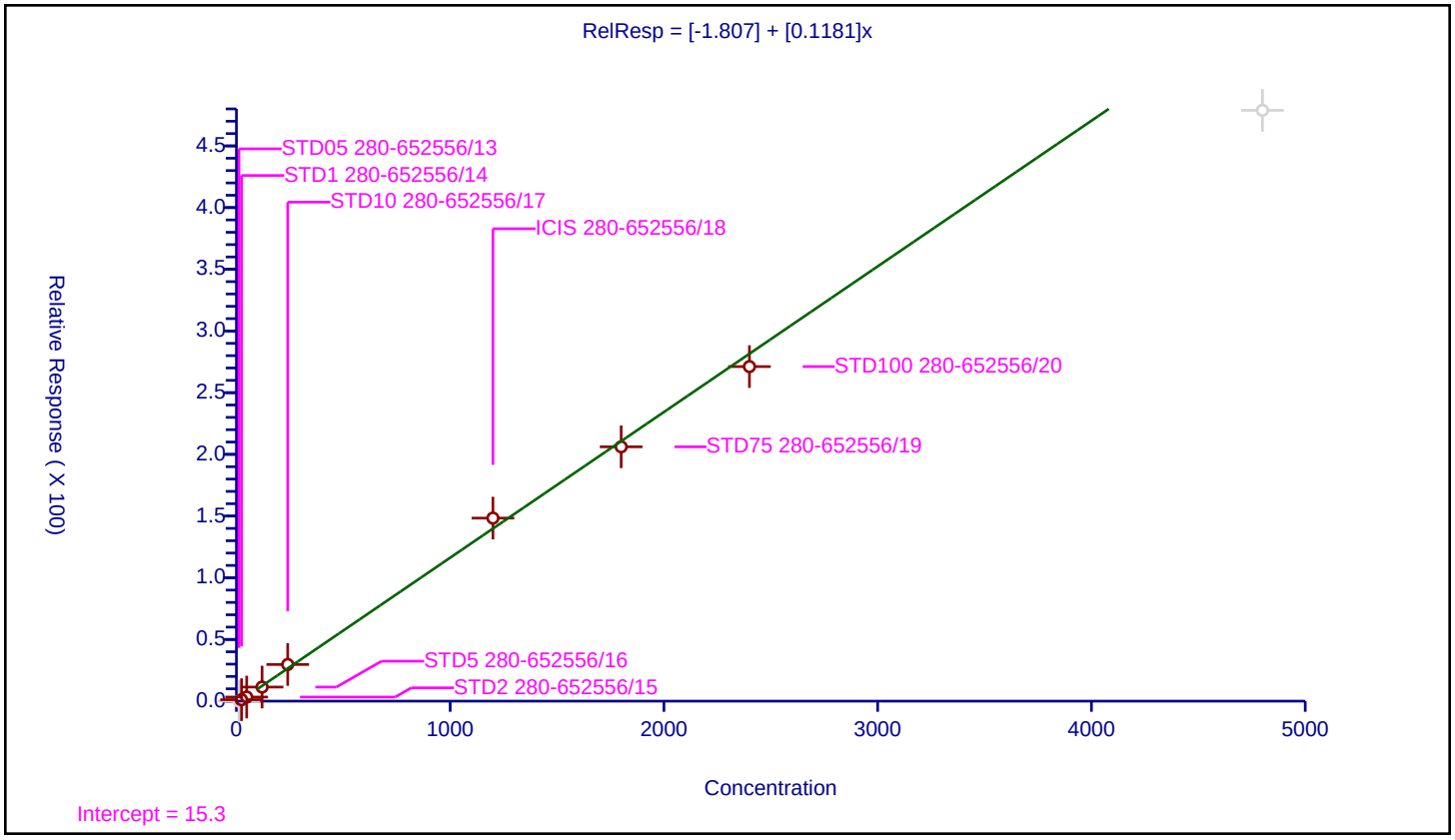
Curve Coefficients

Intercept:	-1.807
Slope:	0.1181

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	12.0	0.0	50.0	1526758.0	0.0	N
2	STD1 280-652556/14	24.0	1.167139	50.0	1562581.0	0.048631	Y
3	STD2 280-652556/15	48.0	3.31431	50.0	1595053.0	0.069048	Y
4	STD5 280-652556/16	120.0	11.406884	50.0	1642587.0	0.095057	Y
5	STD10 280-652556/17	240.0	29.693926	50.0	1555702.0	0.123725	Y
6	ICIS 280-652556/18	1200.0	148.343807	50.0	1640721.0	0.12362	Y
7	STD75 280-652556/19	1800.0	206.145055	50.0	1645380.0	0.114525	Y
8	STD100 280-652556/20	2400.0	271.152403	50.0	1692264.0	0.11298	Y
9	STD200 280-652556/21	4800.0	478.838898	50.0	1731545.0	0.099758	N



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Calibration / Chlorobromomethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

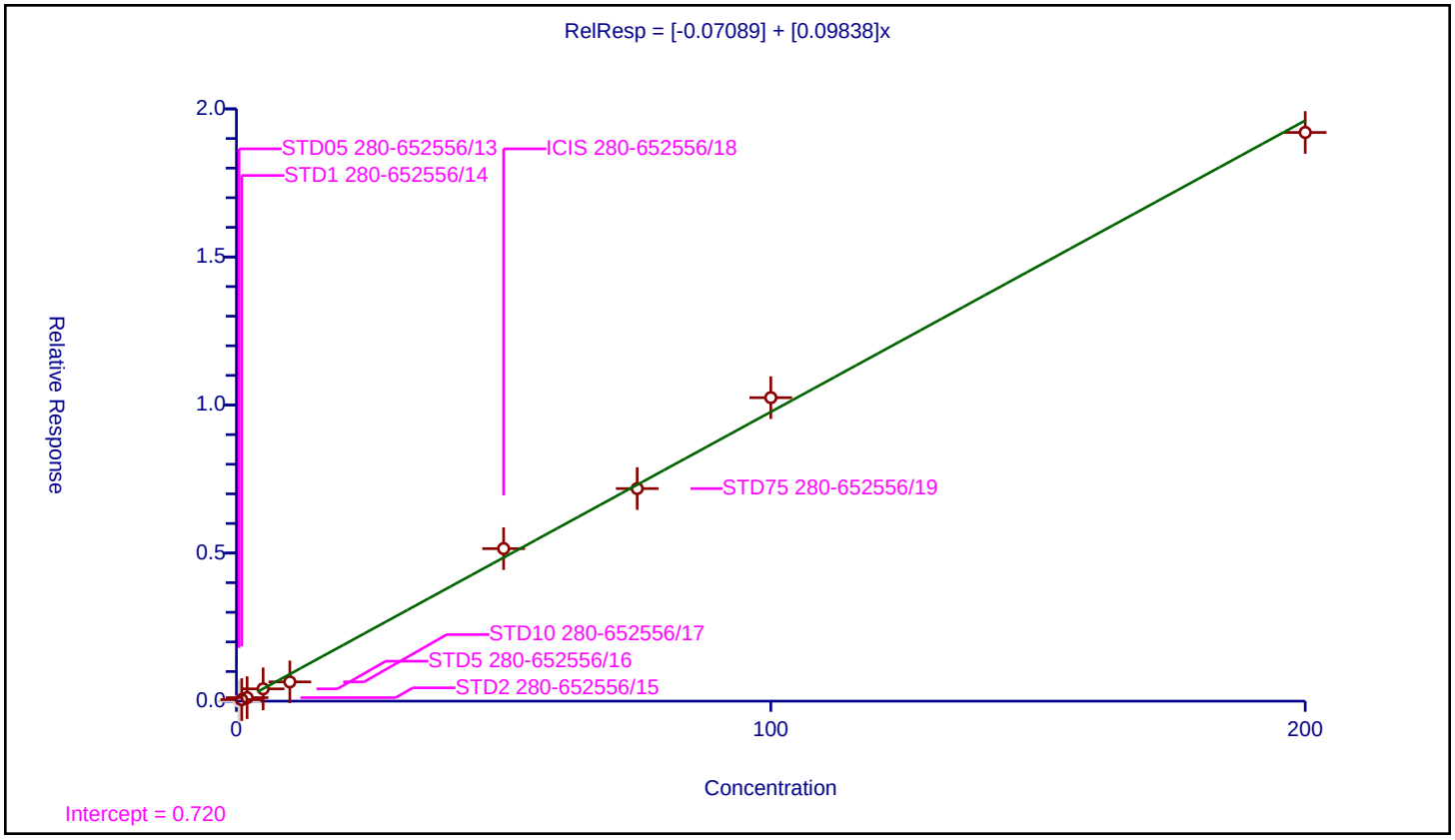
Curve Coefficients

Intercept:	-0.07089
Slope:	0.09838

Error Coefficients

Relative Standard Deviation:	15.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.0	50.0	1526758.0	0.0	N
2	STD1 280-652556/14	1.0	0.051741	50.0	1562581.0	0.051741	Y
3	STD2 280-652556/15	2.0	0.117864	50.0	1595053.0	0.058932	Y
4	STD5 280-652556/16	5.0	0.415442	50.0	1642587.0	0.083088	Y
5	STD10 280-652556/17	10.0	0.650639	50.0	1555702.0	0.065064	Y
6	ICIS 280-652556/18	50.0	5.150541	50.0	1640721.0	0.103011	Y
7	STD75 280-652556/19	75.0	7.178615	50.0	1645380.0	0.095715	Y
8	STD100 280-652556/20	100.0	10.248667	50.0	1692264.0	0.102487	Y
9	STD200 280-652556/21	200.0	19.203861	50.0	1731545.0	0.096019	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

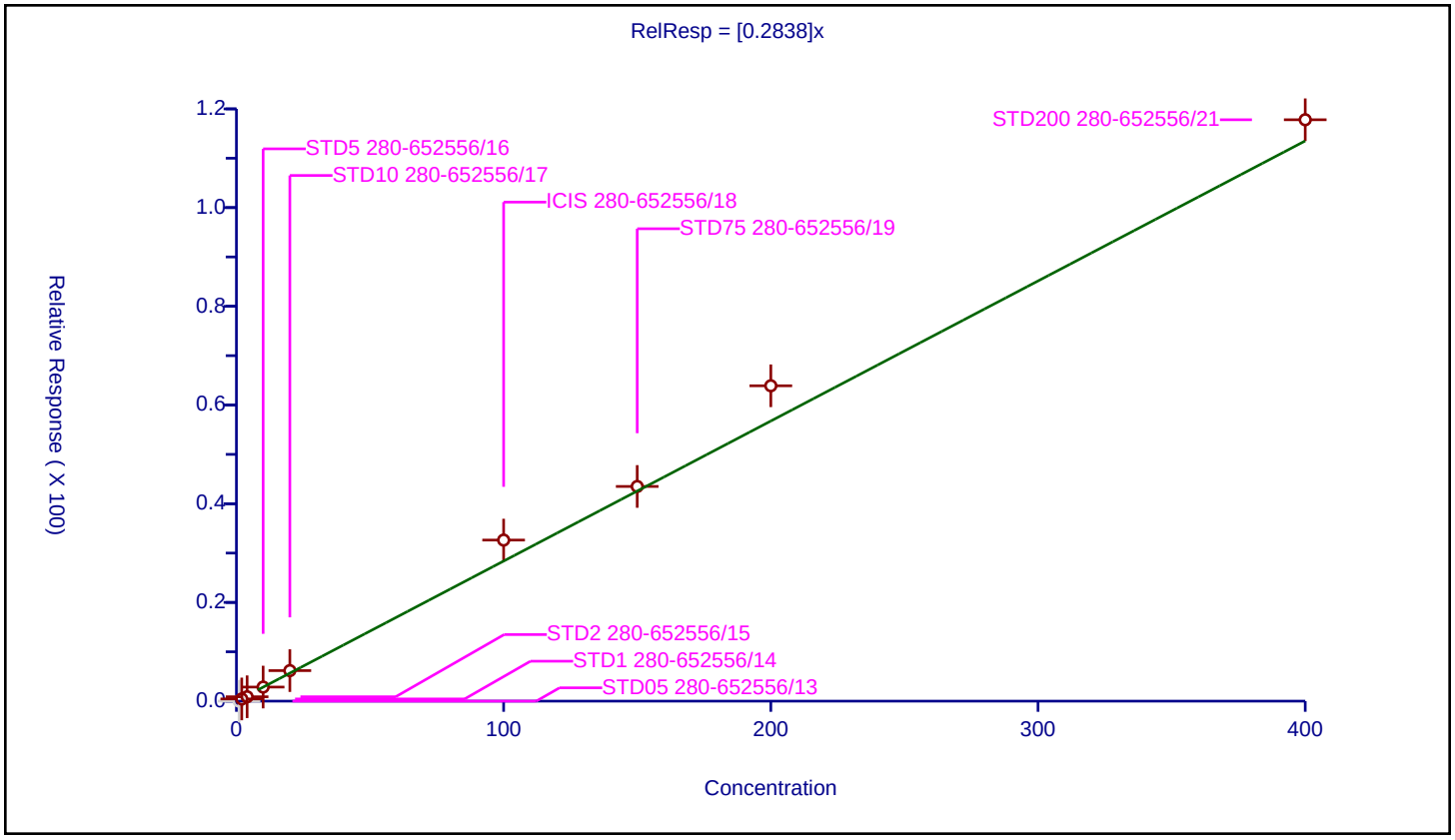
Curve Coefficients

Intercept:	0
Slope:	0.2838

Error Coefficients

Relative Standard Deviation:	14.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	1.0	0.0	50.0	1526758.0	0.0	N
2	STD1 280-652556/14	2.0	0.447785	50.0	1562581.0	0.223892	Y
3	STD2 280-652556/15	4.0	0.886366	50.0	1595053.0	0.221591	Y
4	STD5 280-652556/16	10.0	2.852086	50.0	1642587.0	0.285209	Y
5	STD10 280-652556/17	20.0	6.185407	50.0	1555702.0	0.30927	Y
6	ICIS 280-652556/18	100.0	32.63355	50.0	1640721.0	0.326335	Y
7	STD75 280-652556/19	150.0	43.496366	50.0	1645380.0	0.289976	Y
8	STD100 280-652556/20	200.0	63.898157	50.0	1692264.0	0.319491	Y
9	STD200 280-652556/21	400.0	117.796736	50.0	1731545.0	0.294492	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

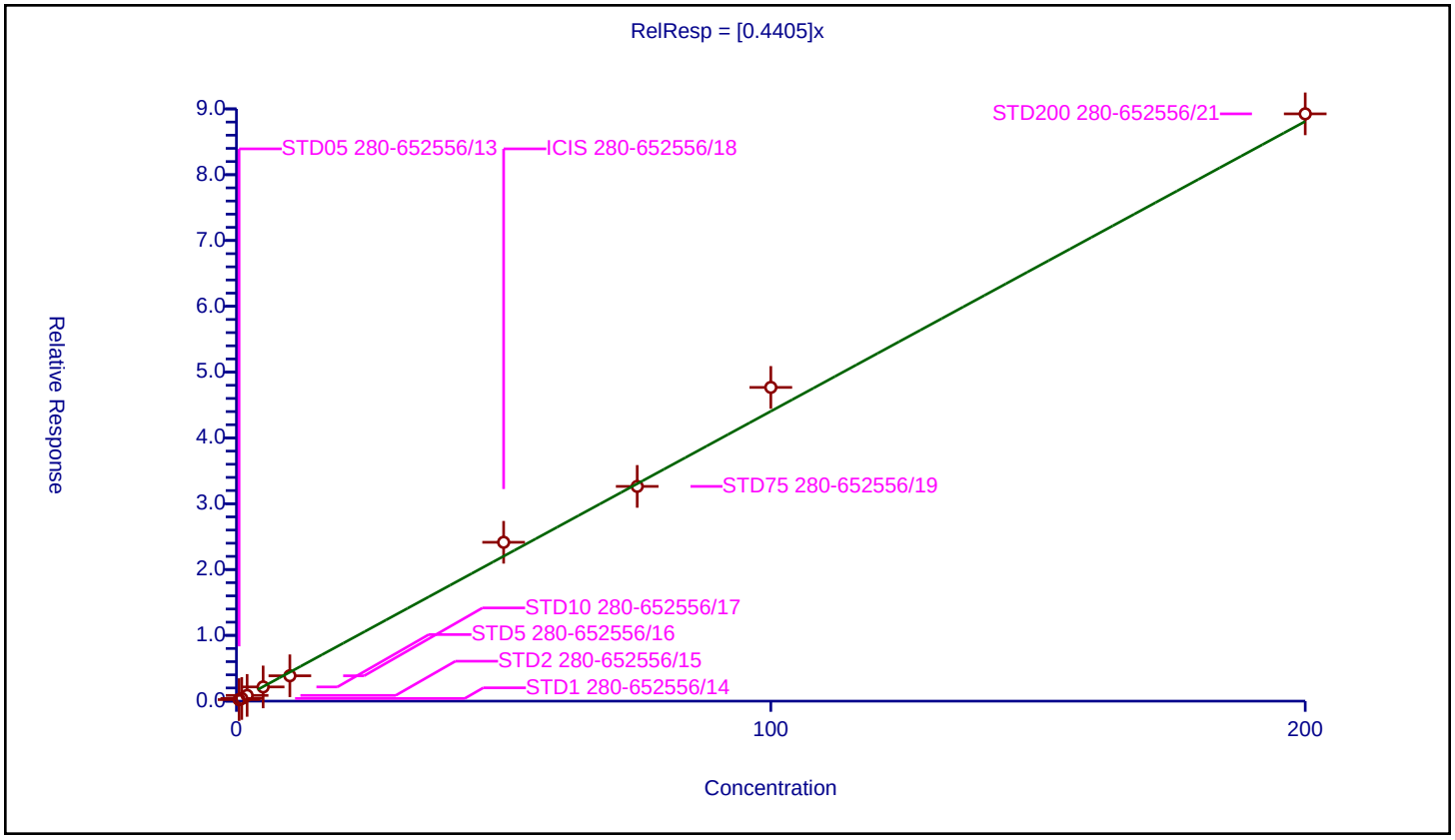
Curve Coefficients

Intercept:	0
Slope:	0.4405

Error Coefficients

Relative Standard Deviation:	7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.23396	50.0	1526758.0	0.46792	Y
2	STD1 280-652556/14	1.0	0.402795	50.0	1562581.0	0.402795	Y
3	STD2 280-652556/15	2.0	0.870379	50.0	1595053.0	0.435189	Y
4	STD5 280-652556/16	5.0	2.159459	50.0	1642587.0	0.431892	Y
5	STD10 280-652556/17	10.0	3.856523	50.0	1555702.0	0.385652	Y
6	ICIS 280-652556/18	50.0	24.142679	50.0	1640721.0	0.482854	Y
7	STD75 280-652556/19	75.0	32.630912	50.0	1645380.0	0.435079	Y
8	STD100 280-652556/20	100.0	47.677874	50.0	1692264.0	0.476779	Y
9	STD200 280-652556/21	200.0	89.246627	50.0	1731545.0	0.446233	Y



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Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

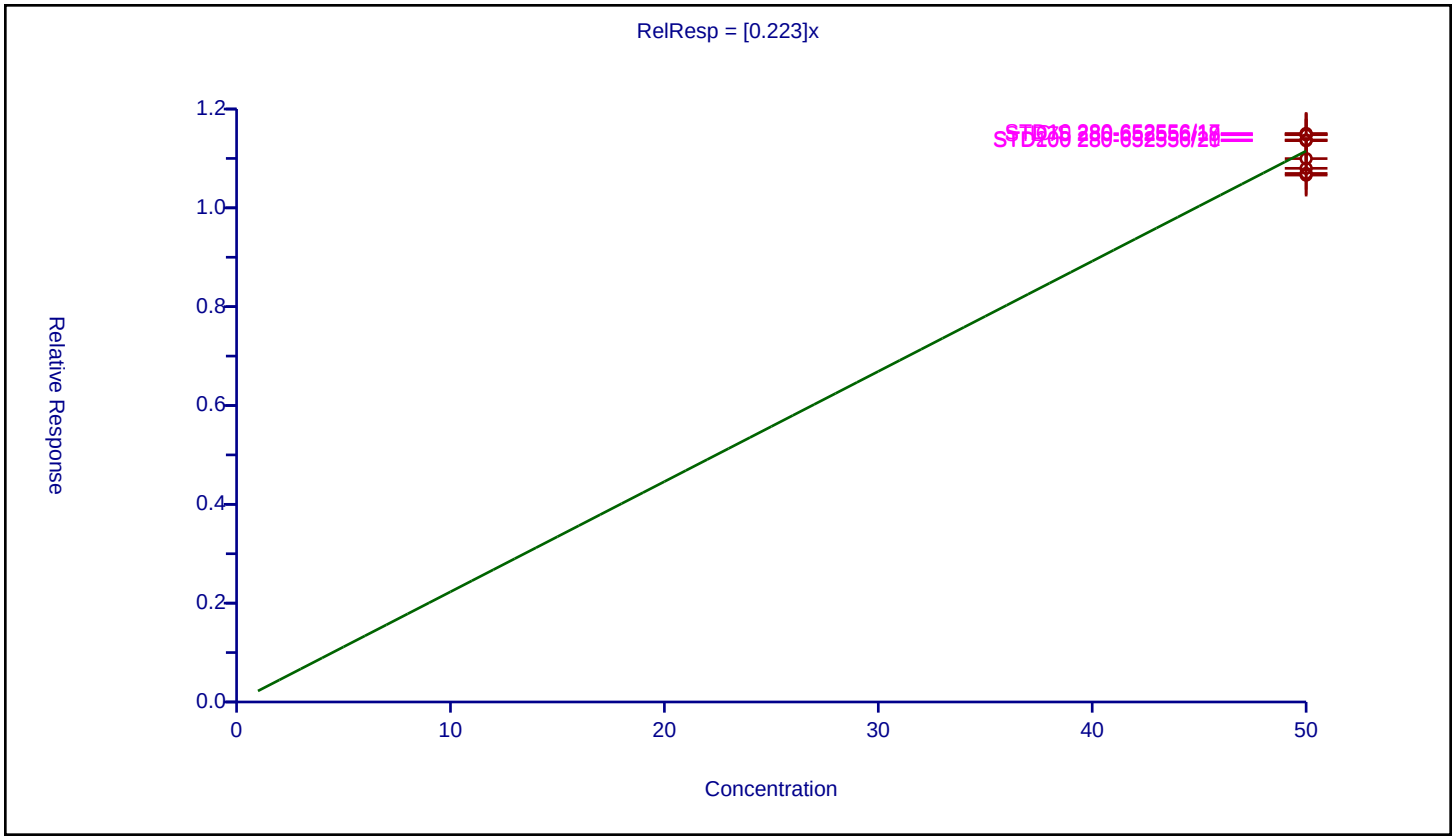
Curve Coefficients

Intercept:	0
Slope:	0.223

Error Coefficients

Relative Standard Deviation:	3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	50.0	10.696129	50.0	1526758.0	0.213923	Y
2	STD1 280-652556/14	50.0	10.662583	50.0	1562581.0	0.213252	Y
3	STD2 280-652556/15	50.0	10.996312	50.0	1595053.0	0.219926	Y
4	STD5 280-652556/16	50.0	10.799885	50.0	1642587.0	0.215998	Y
5	STD10 280-652556/17	50.0	11.504742	50.0	1555702.0	0.230095	Y
6	ICIS 280-652556/18	50.0	11.483153	50.0	1640721.0	0.229663	Y
7	STD75 280-652556/19	50.0	11.47978	50.0	1645380.0	0.229596	Y
8	STD100 280-652556/20	50.0	11.35928	50.0	1692264.0	0.227186	Y
9	STD200 280-652556/21	50.0	11.373253	50.0	1731545.0	0.227465	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

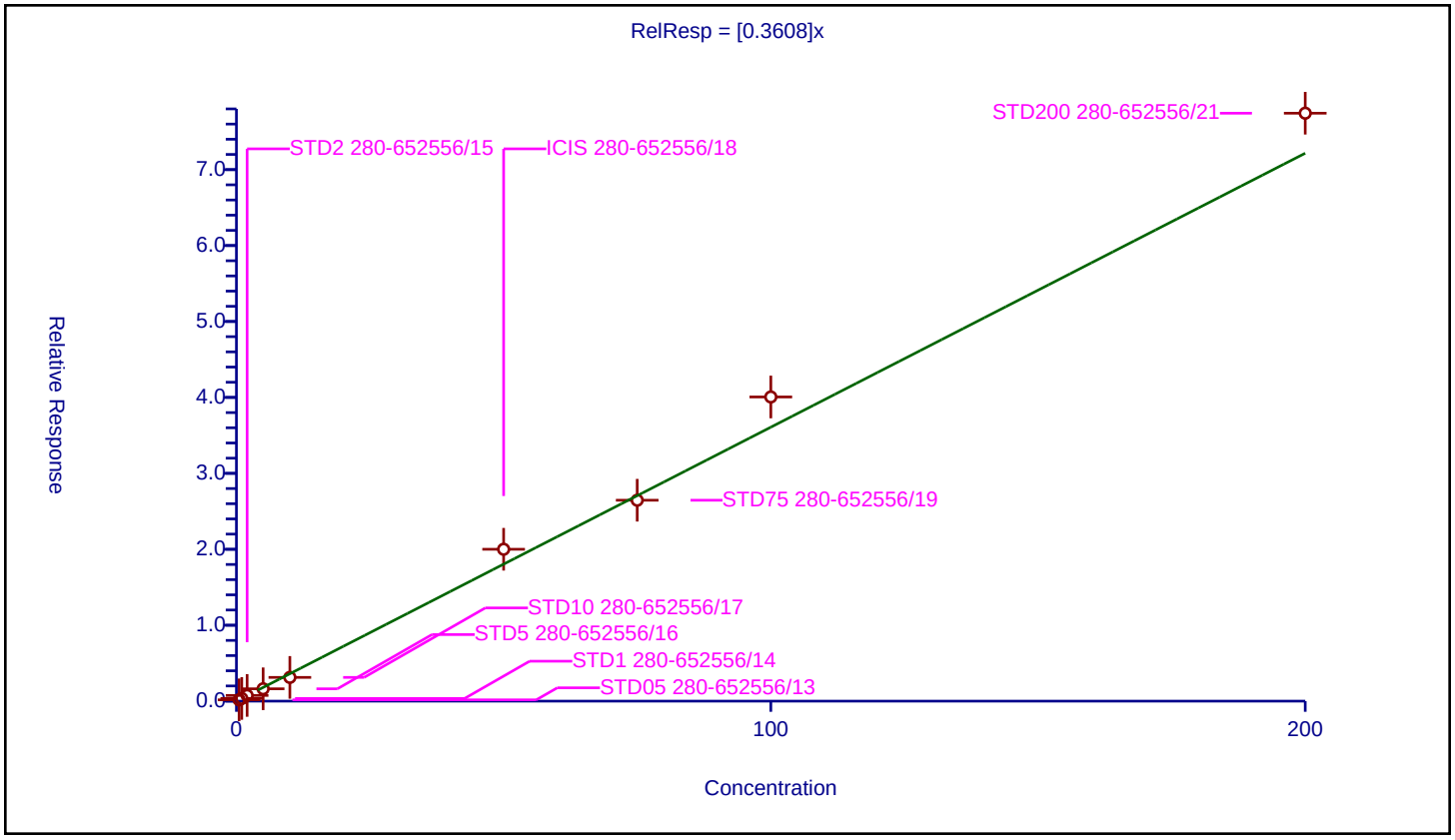
Curve Coefficients

Intercept:	0
Slope:	0.3608

Error Coefficients

Relative Standard Deviation:	8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.168527	50.0	1526758.0	0.337054	Y
2	STD1 280-652556/14	1.0	0.355054	50.0	1562581.0	0.355054	Y
3	STD2 280-652556/15	2.0	0.753423	50.0	1595053.0	0.376712	Y
4	STD5 280-652556/16	5.0	1.624785	50.0	1642587.0	0.324957	Y
5	STD10 280-652556/17	10.0	3.128234	50.0	1555702.0	0.312823	Y
6	ICIS 280-652556/18	50.0	20.003035	50.0	1640721.0	0.400061	Y
7	STD75 280-652556/19	75.0	26.460119	50.0	1645380.0	0.352802	Y
8	STD100 280-652556/20	100.0	40.06015	50.0	1692264.0	0.400602	Y
9	STD200 280-652556/21	200.0	77.430156	50.0	1731545.0	0.387151	Y



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Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

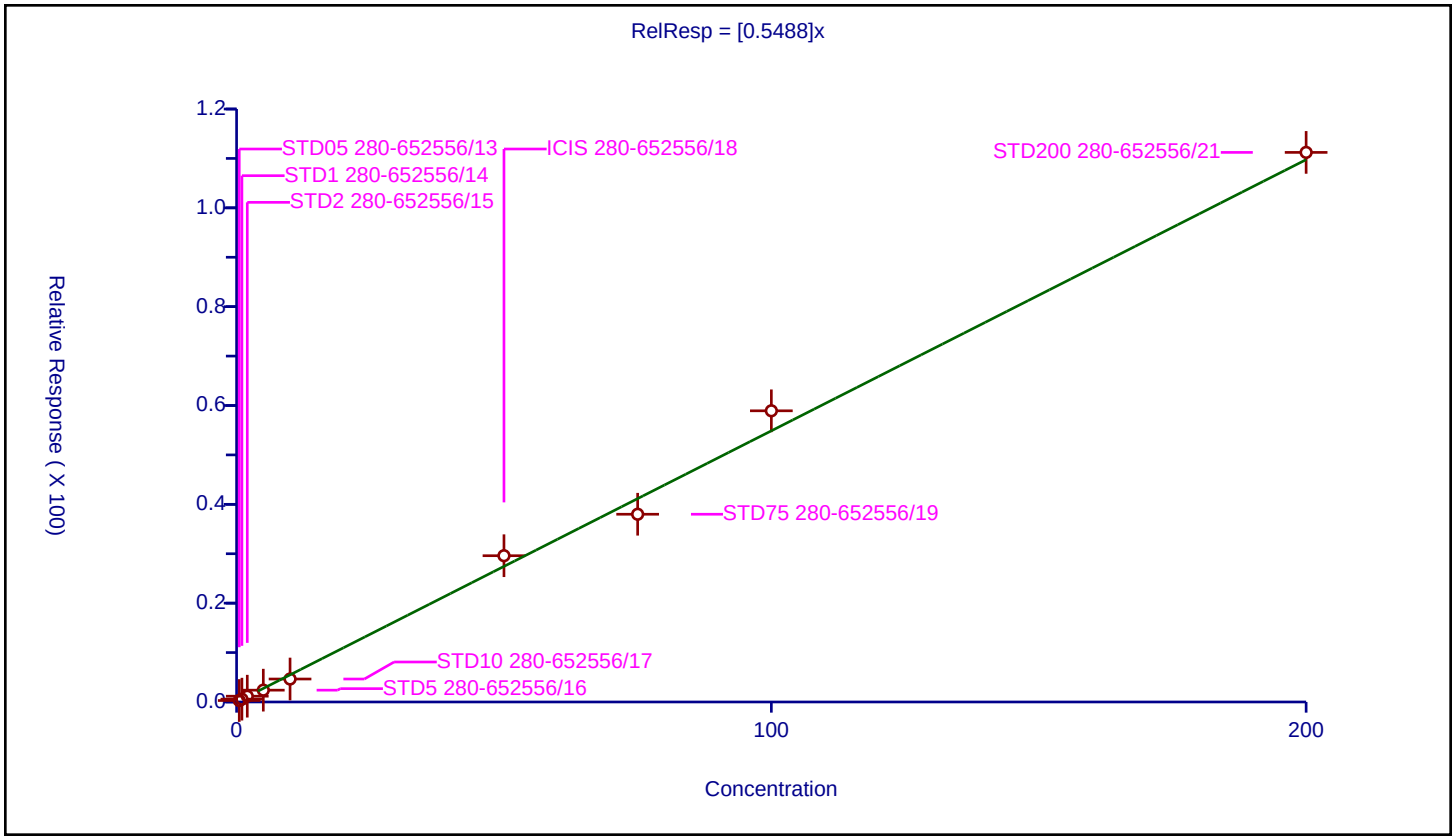
Curve Coefficients

Intercept:	0
Slope:	0.5488

Error Coefficients

Relative Standard Deviation:	9.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.296118	50.0	1526758.0	0.592235	Y
2	STD1 280-652556/14	1.0	0.572258	50.0	1562581.0	0.572258	Y
3	STD2 280-652556/15	2.0	1.173033	50.0	1595053.0	0.586517	Y
4	STD5 280-652556/16	5.0	2.395581	50.0	1642587.0	0.479116	Y
5	STD10 280-652556/17	10.0	4.647452	50.0	1555702.0	0.464745	Y
6	ICIS 280-652556/18	50.0	29.602534	50.0	1640721.0	0.592051	Y
7	STD75 280-652556/19	75.0	37.994992	50.0	1645380.0	0.5066	Y
8	STD100 280-652556/20	100.0	58.92603	50.0	1692264.0	0.58926	Y
9	STD200 280-652556/21	200.0	111.221481	50.0	1731545.0	0.556107	Y



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Calibration / 1,1-Dichloropropene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

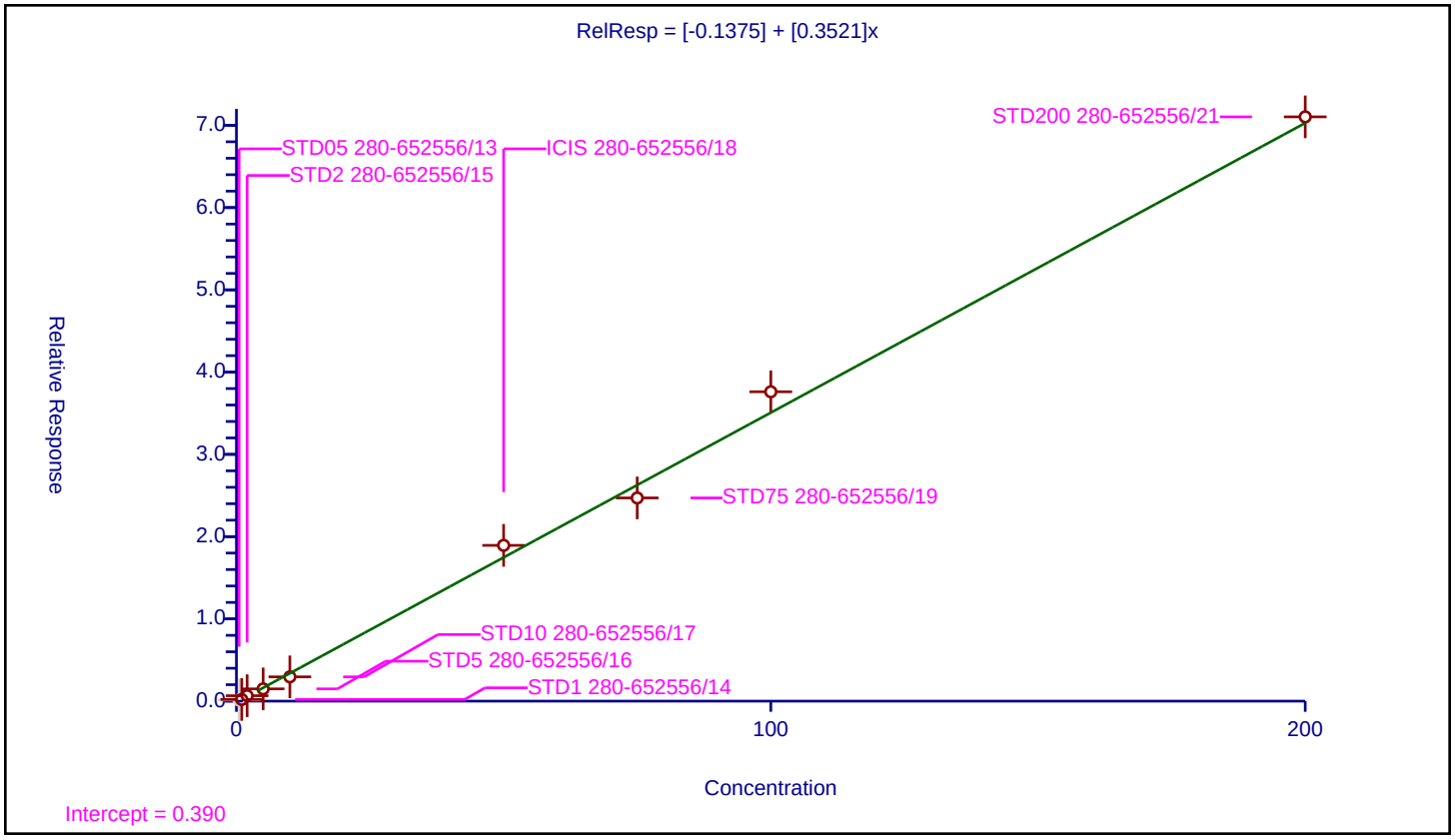
Curve Coefficients

Intercept:	-0.1375
Slope:	0.3521

Error Coefficients

Relative Standard Deviation:	9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.141018	50.0	1526758.0	0.282036	N
2	STD1 280-652556/14	1.0	0.200854	50.0	1562581.0	0.200854	Y
3	STD2 280-652556/15	2.0	0.657878	50.0	1595053.0	0.328939	Y
4	STD5 280-652556/16	5.0	1.491732	50.0	1642587.0	0.298346	Y
5	STD10 280-652556/17	10.0	2.952911	50.0	1555702.0	0.295291	Y
6	ICIS 280-652556/18	50.0	18.937589	50.0	1640721.0	0.378752	Y
7	STD75 280-652556/19	75.0	24.702318	50.0	1645380.0	0.329364	Y
8	STD100 280-652556/20	100.0	37.60876	50.0	1692264.0	0.376088	Y
9	STD200 280-652556/21	200.0	71.030438	50.0	1731545.0	0.355152	Y



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Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

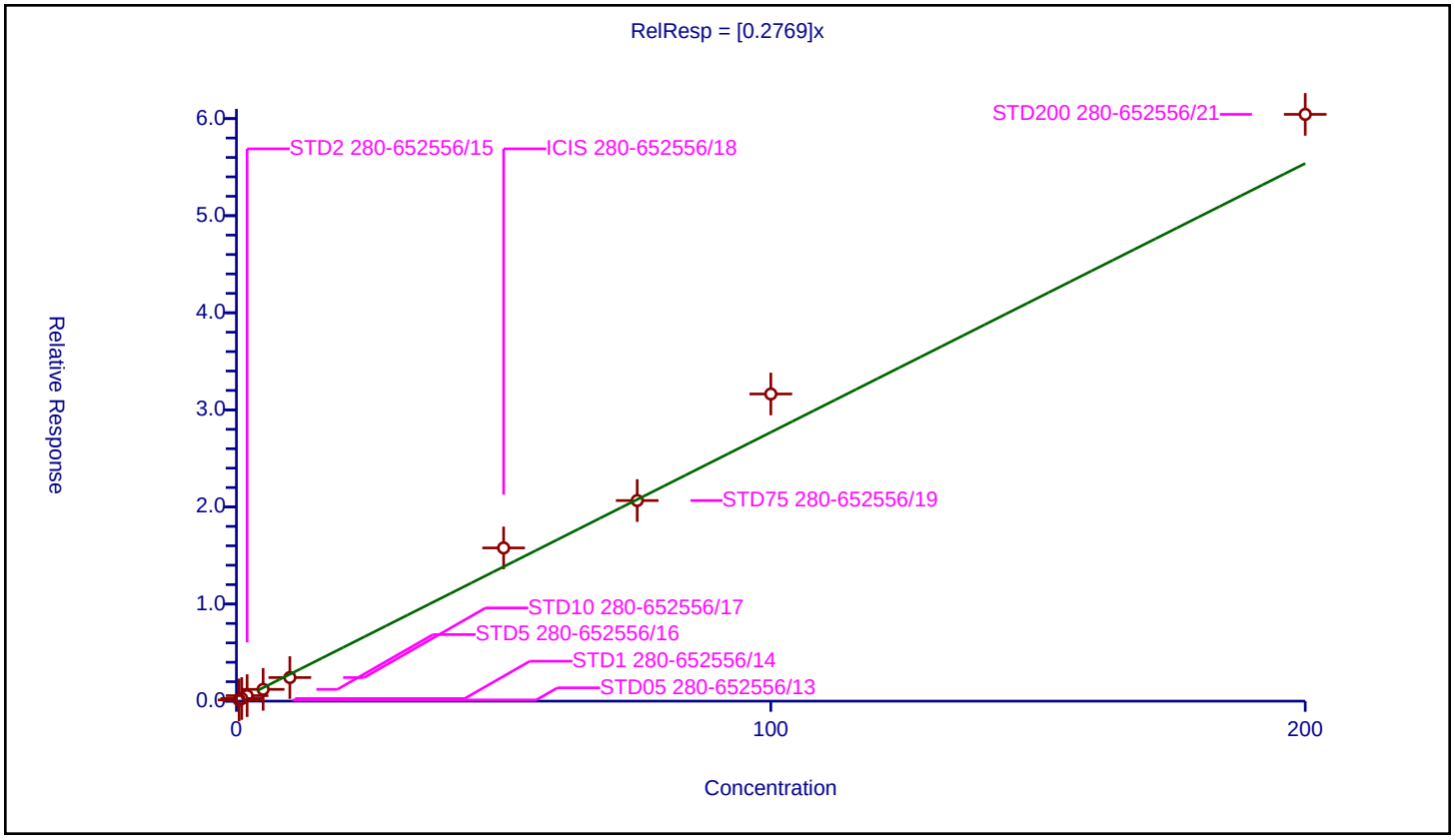
Curve Coefficients

Intercept:	0
Slope:	0.2769

Error Coefficients

Relative Standard Deviation:	10.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.123202	50.0	1526758.0	0.246404	Y
2	STD1 280-652556/14	1.0	0.26677	50.0	1562581.0	0.26677	Y
3	STD2 280-652556/15	2.0	0.566752	50.0	1595053.0	0.283376	Y
4	STD5 280-652556/16	5.0	1.215095	50.0	1642587.0	0.243019	Y
5	STD10 280-652556/17	10.0	2.430318	50.0	1555702.0	0.243032	Y
6	ICIS 280-652556/18	50.0	15.780928	50.0	1640721.0	0.315619	Y
7	STD75 280-652556/19	75.0	20.660182	50.0	1645380.0	0.275469	Y
8	STD100 280-652556/20	100.0	31.635844	50.0	1692264.0	0.316358	Y
9	STD200 280-652556/21	200.0	60.437009	50.0	1731545.0	0.302185	Y



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Calibration / Isobutyl alcohol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

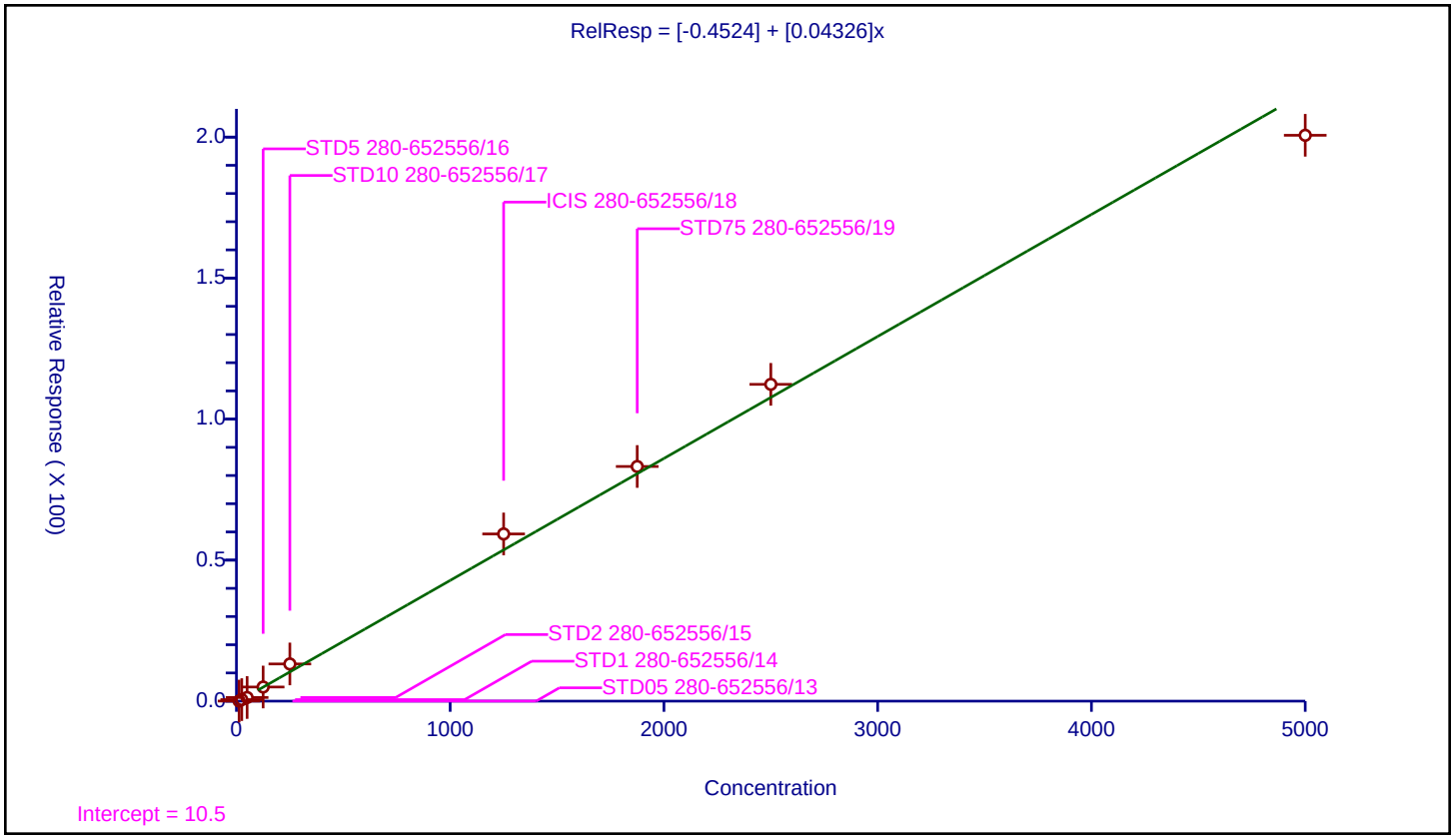
Curve Coefficients

Intercept:	-0.4524
Slope:	0.04326

Error Coefficients

Relative Standard Deviation:	14.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	12.5	0.031668	50.0	1526758.0	0.002533	Y
2	STD1 280-652556/14	25.0	0.540068	50.0	1562581.0	0.021603	Y
3	STD2 280-652556/15	50.0	1.293405	50.0	1595053.0	0.025868	Y
4	STD5 280-652556/16	125.0	5.005306	50.0	1642587.0	0.040042	Y
5	STD10 280-652556/17	250.0	13.185109	50.0	1555702.0	0.05274	Y
6	ICIS 280-652556/18	1250.0	59.287685	50.0	1640721.0	0.04743	Y
7	STD75 280-652556/19	1875.0	83.208074	50.0	1645380.0	0.044378	Y
8	STD100 280-652556/20	2500.0	112.330937	50.0	1692264.0	0.044932	Y
9	STD200 280-652556/21	5000.0	200.641912	50.0	1731545.0	0.040128	Y



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Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

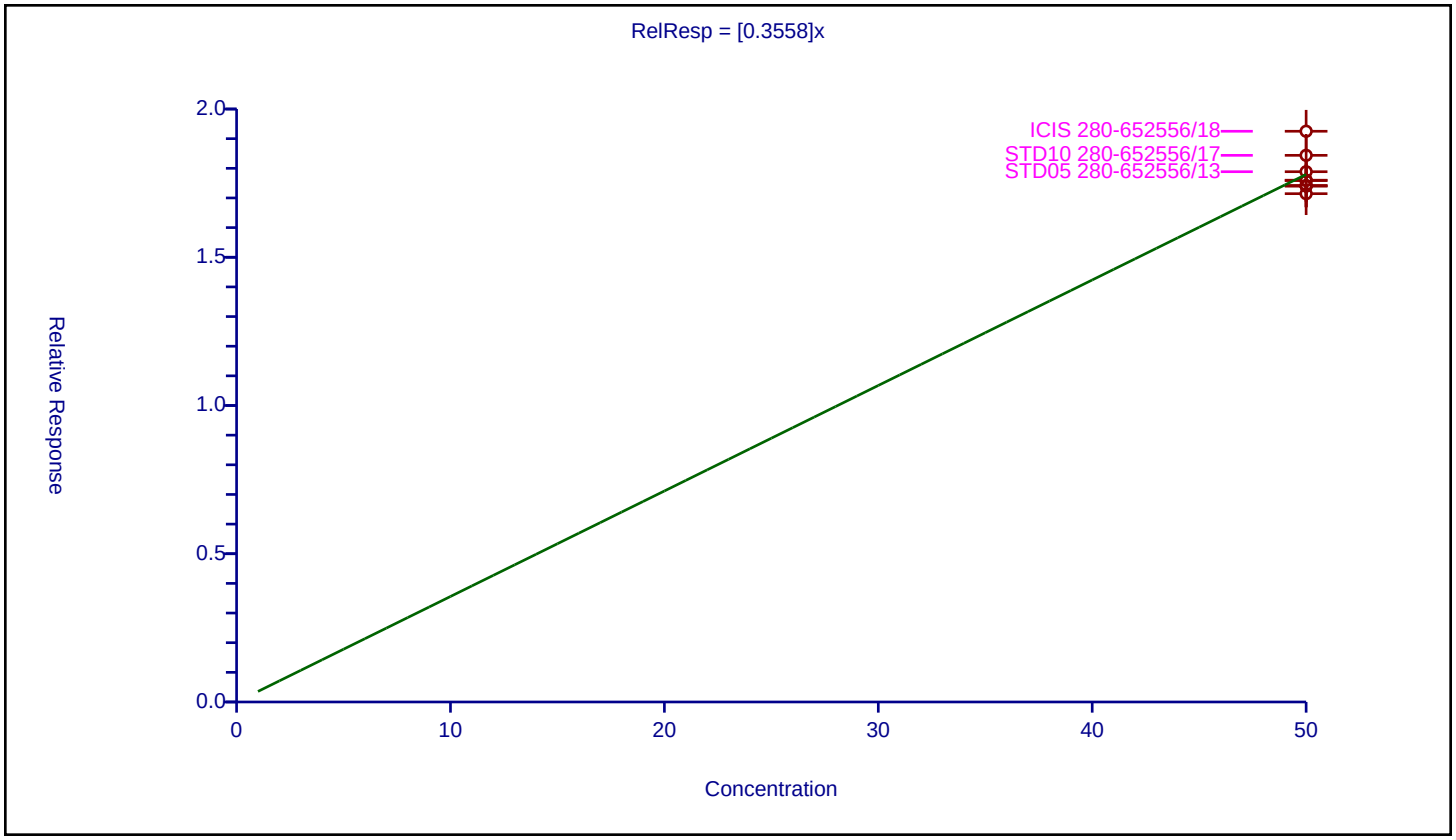
Curve Coefficients

Intercept:	0
Slope:	0.3558

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	50.0	17.885644	50.0	1526758.0	0.357713	Y
2	STD1 280-652556/14	50.0	17.144359	50.0	1562581.0	0.342887	Y
3	STD2 280-652556/15	50.0	17.418261	50.0	1595053.0	0.348365	Y
4	STD5 280-652556/16	50.0	17.599737	50.0	1642587.0	0.351995	Y
5	STD10 280-652556/17	50.0	18.437786	50.0	1555702.0	0.368756	Y
6	ICIS 280-652556/18	50.0	19.249921	50.0	1640721.0	0.384998	Y
7	STD75 280-652556/19	50.0	17.401694	50.0	1645380.0	0.348034	Y
8	STD100 280-652556/20	50.0	17.407361	50.0	1692264.0	0.348147	Y
9	STD200 280-652556/21	50.0	17.586548	50.0	1731545.0	0.351731	Y



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Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

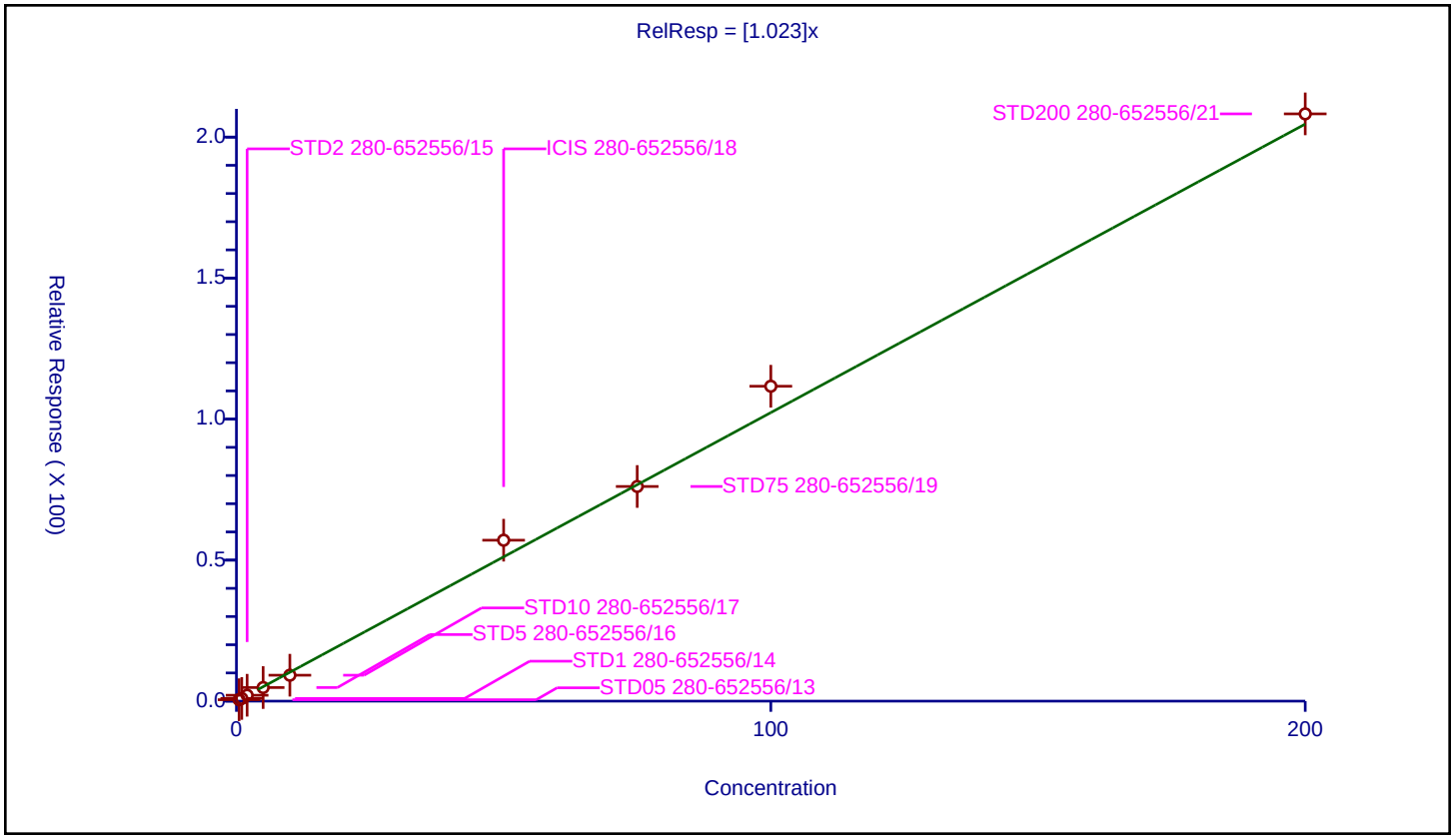
Curve Coefficients

Intercept:	0
Slope:	1.023

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.503944	50.0	1526758.0	1.007887	Y
2	STD1 280-652556/14	1.0	0.95723	50.0	1562581.0	0.95723	Y
3	STD2 280-652556/15	2.0	2.091435	50.0	1595053.0	1.045718	Y
4	STD5 280-652556/16	5.0	4.819045	50.0	1642587.0	0.963809	Y
5	STD10 280-652556/17	10.0	9.193792	50.0	1555702.0	0.919379	Y
6	ICIS 280-652556/18	50.0	57.063876	50.0	1640721.0	1.141278	Y
7	STD75 280-652556/19	75.0	76.117067	50.0	1645380.0	1.014894	Y
8	STD100 280-652556/20	100.0	111.656396	50.0	1692264.0	1.116564	Y
9	STD200 280-652556/21	200.0	208.238076	50.0	1731545.0	1.04119	Y



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Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

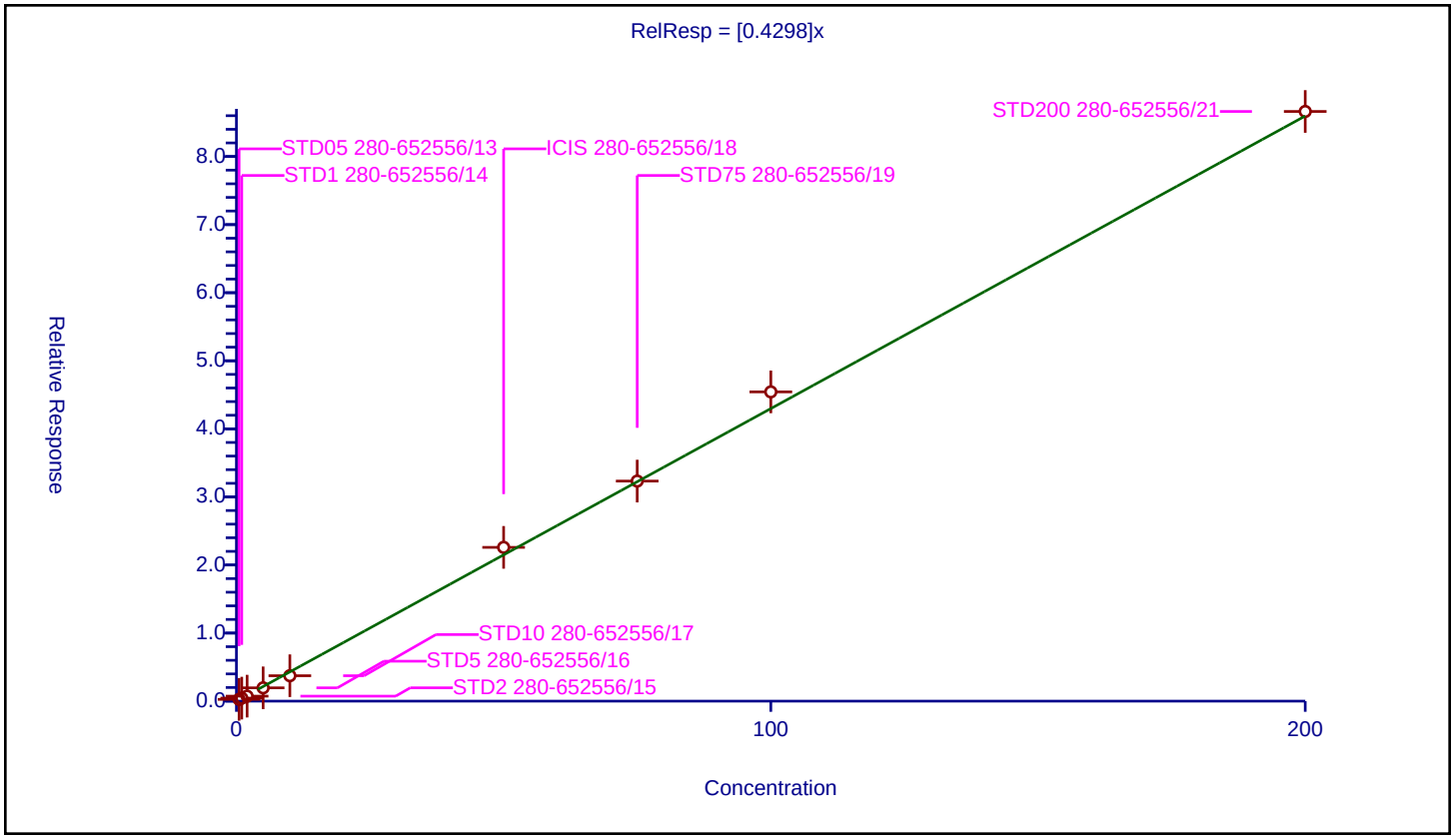
Curve Coefficients

Intercept:	0
Slope:	0.4298

Error Coefficients

Relative Standard Deviation:	11.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.261535	50.0	1526758.0	0.523069	Y
2	STD1 280-652556/14	1.0	0.444521	50.0	1562581.0	0.444521	Y
3	STD2 280-652556/15	2.0	0.731919	50.0	1595053.0	0.36596	Y
4	STD5 280-652556/16	5.0	1.953839	50.0	1642587.0	0.390768	Y
5	STD10 280-652556/17	10.0	3.733395	50.0	1555702.0	0.373339	Y
6	ICIS 280-652556/18	50.0	22.589672	50.0	1640721.0	0.451793	Y
7	STD75 280-652556/19	75.0	32.328338	50.0	1645380.0	0.431045	Y
8	STD100 280-652556/20	100.0	45.4305	50.0	1692264.0	0.454305	Y
9	STD200 280-652556/21	200.0	86.622034	50.0	1731545.0	0.43311	Y



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Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

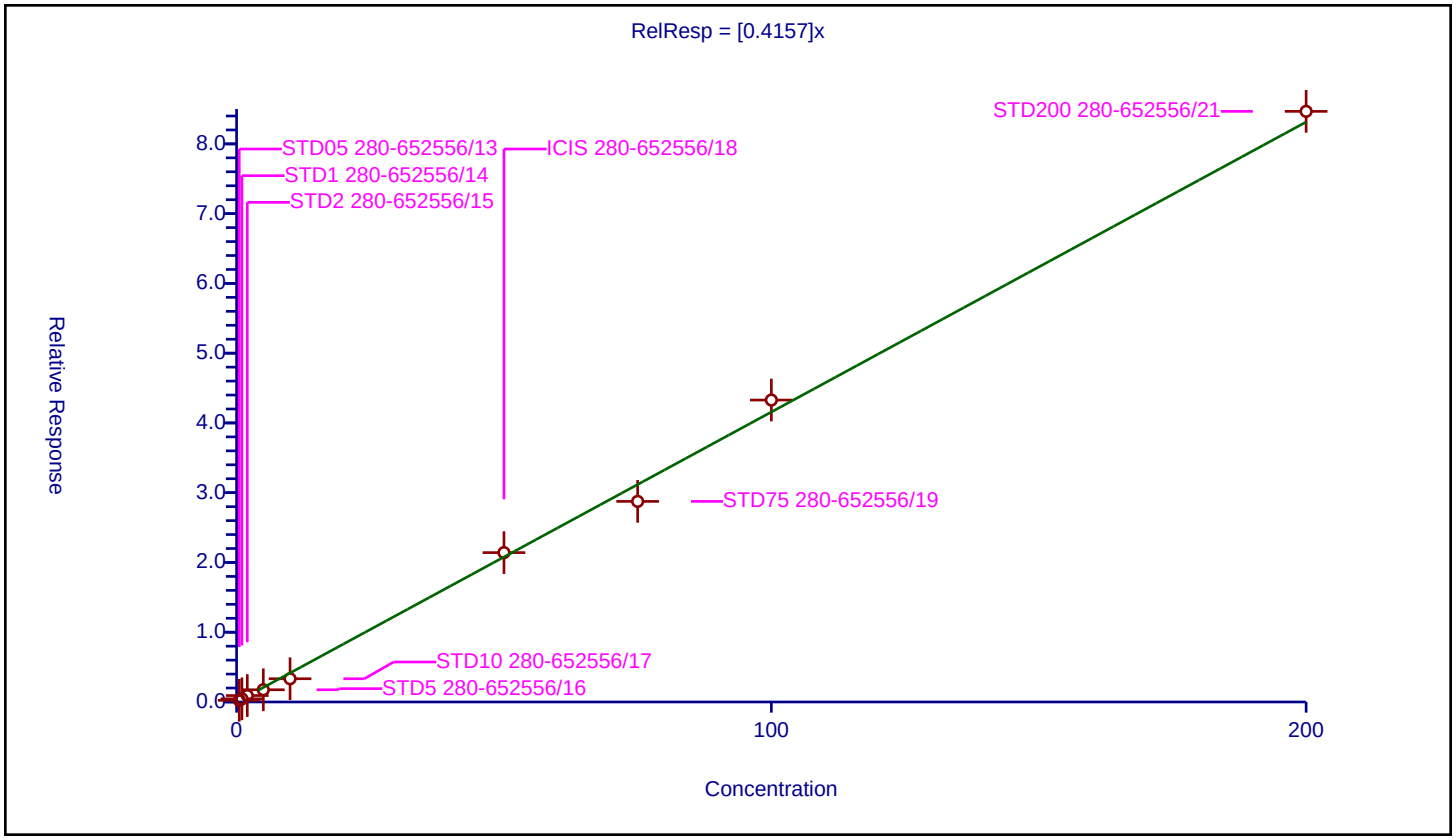
Curve Coefficients

Intercept:	0
Slope:	0.4157

Error Coefficients

Relative Standard Deviation:	11.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.237529	50.0	1526758.0	0.475059	Y
2	STD1 280-652556/14	1.0	0.45364	50.0	1562581.0	0.45364	Y
3	STD2 280-652556/15	2.0	0.921725	50.0	1595053.0	0.460862	Y
4	STD5 280-652556/16	5.0	1.754458	50.0	1642587.0	0.350892	Y
5	STD10 280-652556/17	10.0	3.330104	50.0	1555702.0	0.33301	Y
6	ICIS 280-652556/18	50.0	21.41269	50.0	1640721.0	0.428254	Y
7	STD75 280-652556/19	75.0	28.754513	50.0	1645380.0	0.383394	Y
8	STD100 280-652556/20	100.0	43.280599	50.0	1692264.0	0.432806	Y
9	STD200 280-652556/21	200.0	84.664938	50.0	1731545.0	0.423325	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

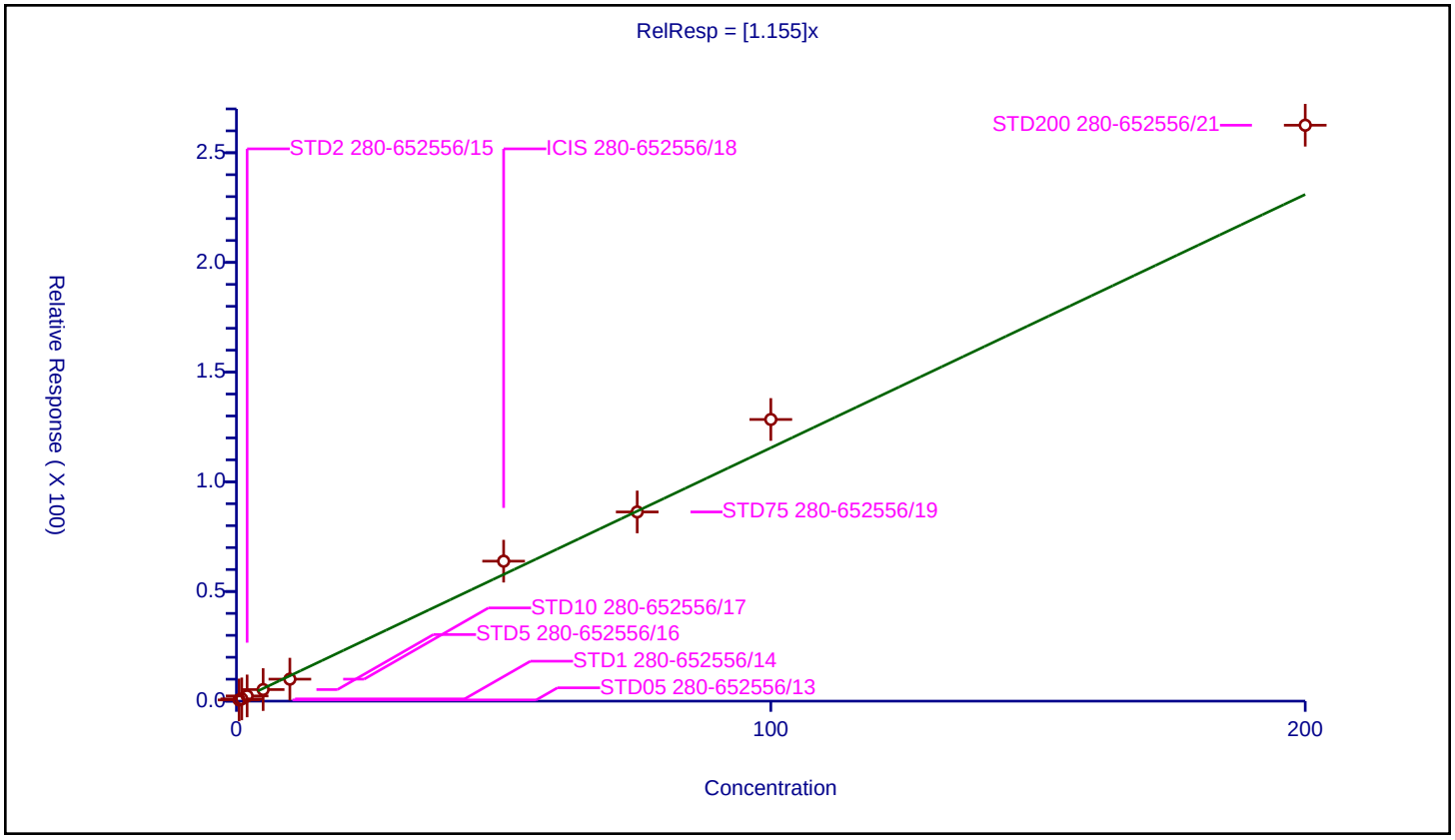
Curve Coefficients

Intercept:	0
Slope:	1.155

Error Coefficients

Relative Standard Deviation:	10.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.548488	50.0	305932.0	1.096976	Y
2	STD1 280-652556/14	1.0	1.030796	50.0	321402.0	1.030796	Y
3	STD2 280-652556/15	2.0	2.373434	50.0	330639.0	1.186717	Y
4	STD5 280-652556/16	5.0	5.272631	50.0	336132.0	1.054526	Y
5	STD10 280-652556/17	10.0	10.024894	50.0	336632.0	1.002489	Y
6	ICIS 280-652556/18	50.0	63.816183	50.0	347976.0	1.276324	Y
7	STD75 280-652556/19	75.0	86.250275	50.0	350287.0	1.150004	Y
8	STD100 280-652556/20	100.0	128.405858	50.0	351468.0	1.284059	Y
9	STD200 280-652556/21	200.0	262.557647	50.0	344340.0	1.312788	Y



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Calibration / 2-Pentanone

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

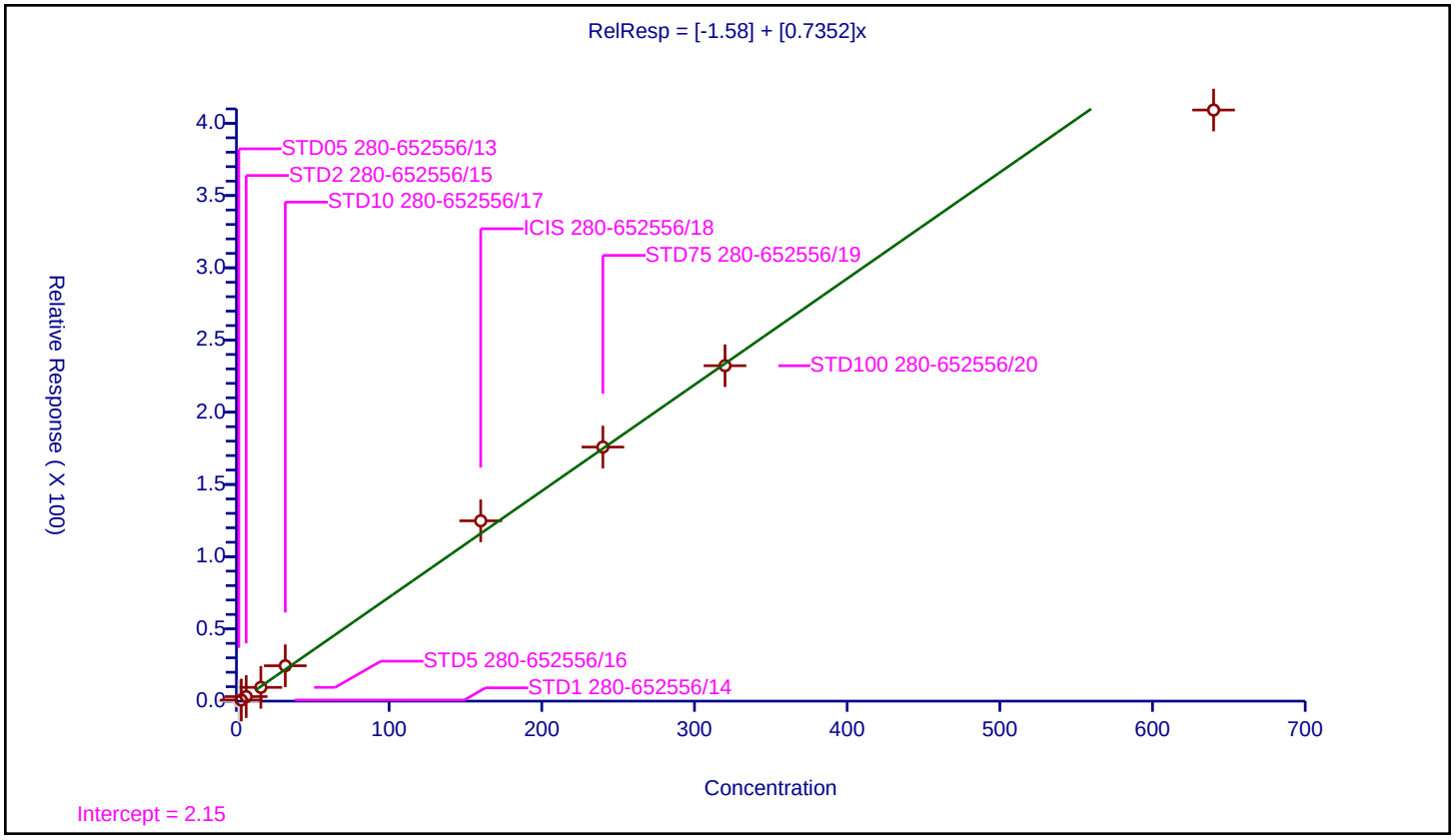
Curve Coefficients

Intercept:	-1.58
Slope:	0.7352

Error Coefficients

Relative Standard Deviation:	7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	1.6	0.0	50.0	1526758.0	0.0	N
2	STD1 280-652556/14	3.2	0.7694	50.0	1562581.0	0.240438	Y
3	STD2 280-652556/15	6.4	3.136197	50.0	1595053.0	0.490031	Y
4	STD5 280-652556/16	16.0	9.524762	50.0	1642587.0	0.595298	Y
5	STD10 280-652556/17	32.0	24.495308	50.0	1555702.0	0.765478	Y
6	ICIS 280-652556/18	160.0	124.832619	50.0	1640721.0	0.780204	Y
7	STD75 280-652556/19	240.0	175.882197	50.0	1645380.0	0.732842	Y
8	STD100 280-652556/20	320.0	232.226768	50.0	1692264.0	0.725709	Y
9	STD200 280-652556/21	640.0	409.232015	50.0	1731545.0	0.639425	Y



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Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

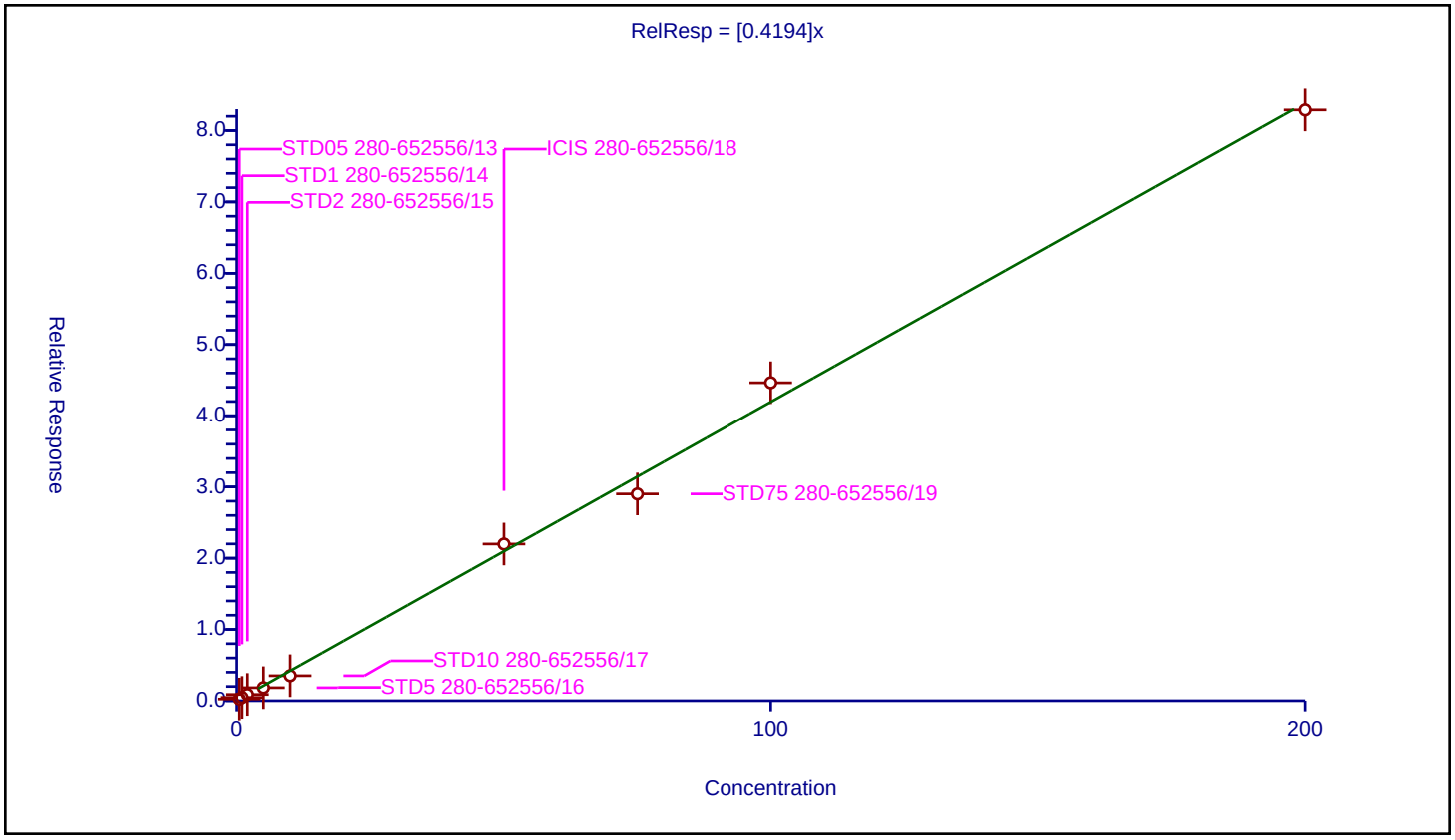
Curve Coefficients

Intercept:	0
Slope:	0.4194

Error Coefficients

Relative Standard Deviation:	10.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.238708	50.0	1526758.0	0.477417	Y
2	STD1 280-652556/14	1.0	0.455784	50.0	1562581.0	0.455784	Y
3	STD2 280-652556/15	2.0	0.875488	50.0	1595053.0	0.437744	Y
4	STD5 280-652556/16	5.0	1.825626	50.0	1642587.0	0.365125	Y
5	STD10 280-652556/17	10.0	3.50803	50.0	1555702.0	0.350803	Y
6	ICIS 280-652556/18	50.0	21.989906	50.0	1640721.0	0.439798	Y
7	STD75 280-652556/19	75.0	29.020895	50.0	1645380.0	0.386945	Y
8	STD100 280-652556/20	100.0	44.63488	50.0	1692264.0	0.446349	Y
9	STD200 280-652556/21	200.0	82.890886	50.0	1731545.0	0.414454	Y



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Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

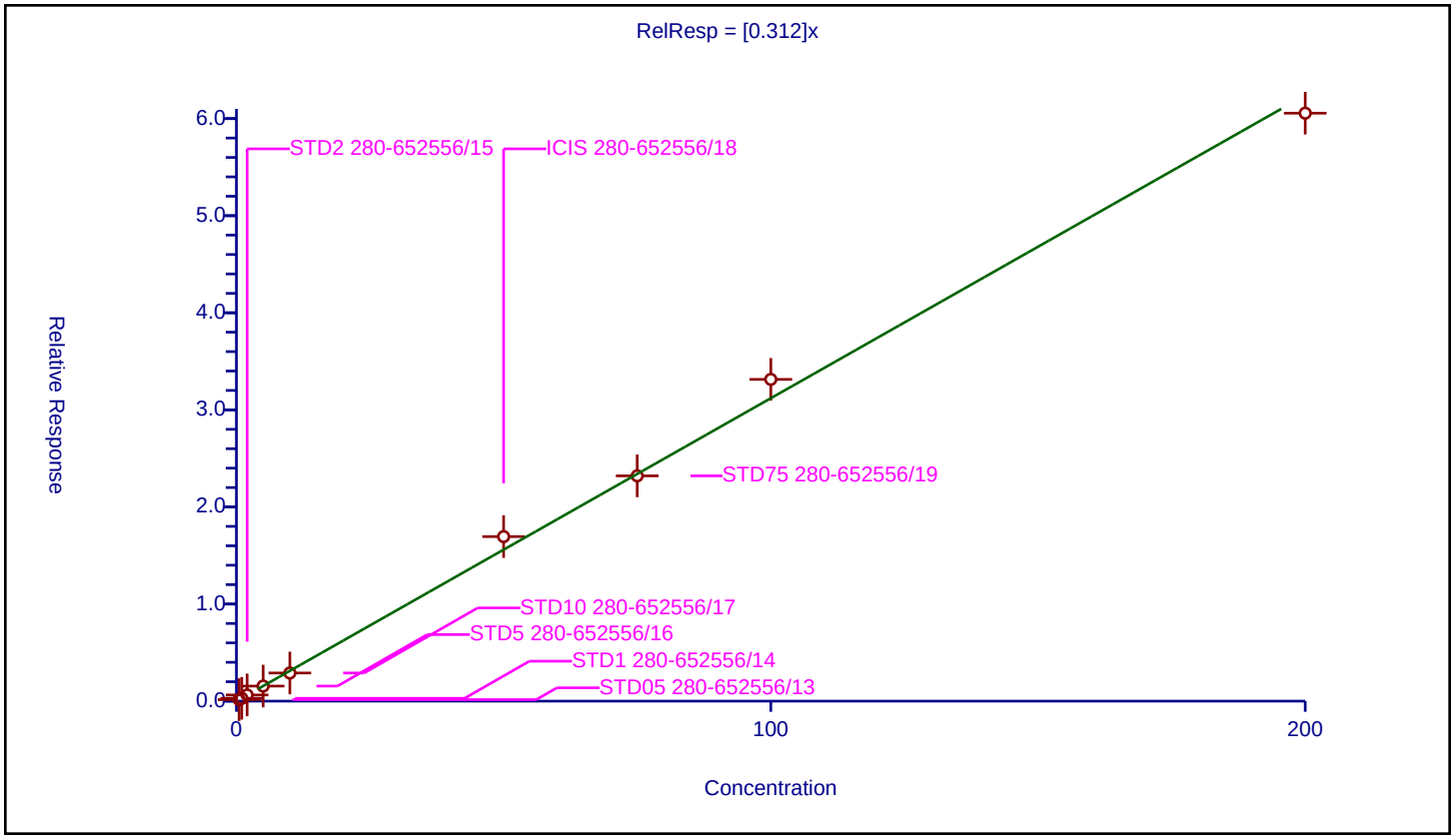
Curve Coefficients

Intercept:	0
Slope:	0.312

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.155689	50.0	1526758.0	0.311379	Y
2	STD1 280-652556/14	1.0	0.294417	50.0	1562581.0	0.294417	Y
3	STD2 280-652556/15	2.0	0.638474	50.0	1595053.0	0.319237	Y
4	STD5 280-652556/16	5.0	1.55249	50.0	1642587.0	0.310498	Y
5	STD10 280-652556/17	10.0	2.89882	50.0	1555702.0	0.289882	Y
6	ICIS 280-652556/18	50.0	16.945843	50.0	1640721.0	0.338917	Y
7	STD75 280-652556/19	75.0	23.204548	50.0	1645380.0	0.309394	Y
8	STD100 280-652556/20	100.0	33.139776	50.0	1692264.0	0.331398	Y
9	STD200 280-652556/21	200.0	60.559269	50.0	1731545.0	0.302796	Y



Calibration / 1,4-Dioxane

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

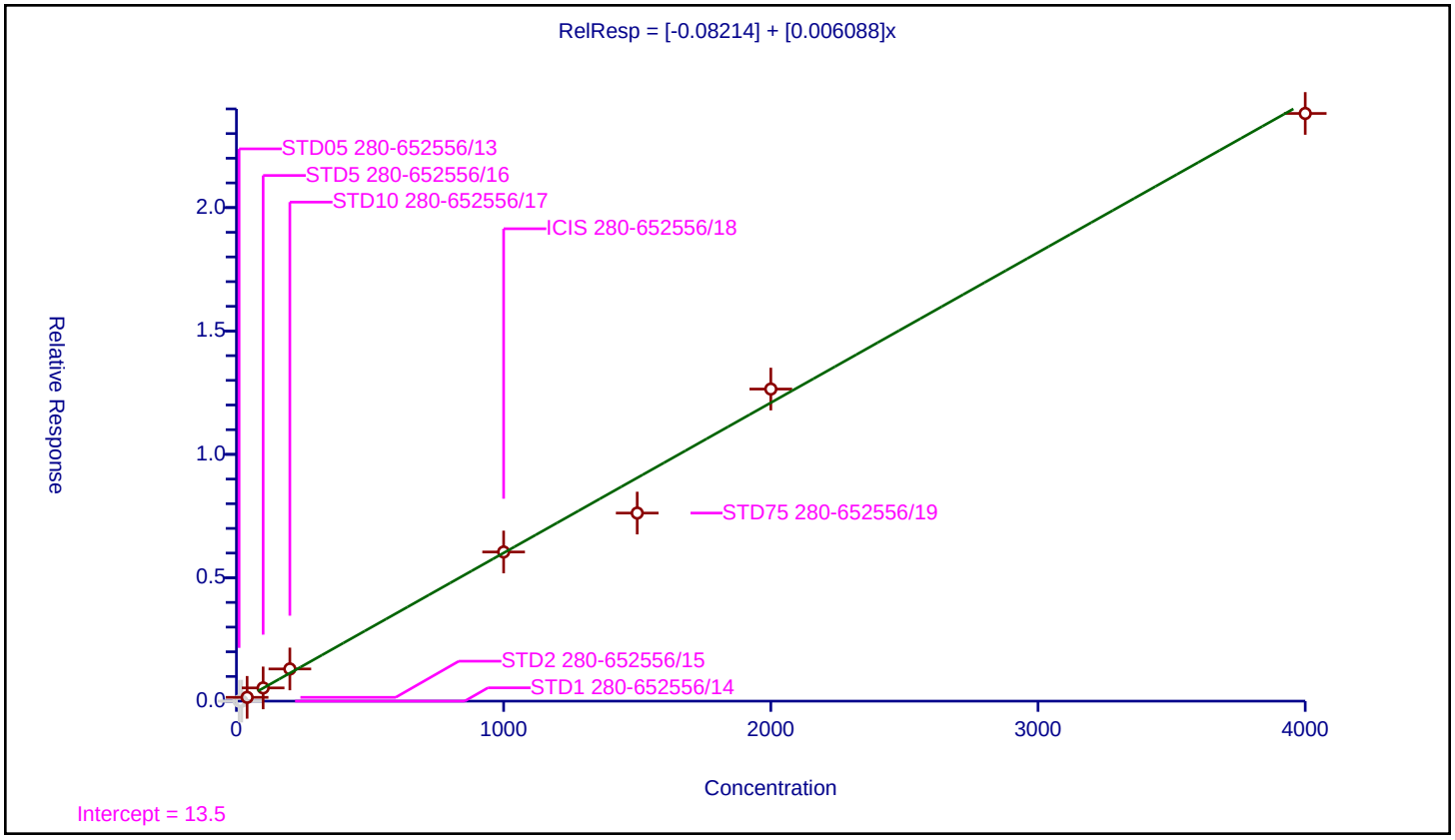
Curve Coefficients

Intercept:	-0.08214
Slope:	0.006088

Error Coefficients

Relative Standard Deviation:	9.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	10.0	0.0	50.0	1526758.0	0.0	N
2	STD1 280-652556/14	20.0	0.0	50.0	1562581.0	0.0	N
3	STD2 280-652556/15	40.0	0.153913	50.0	1595053.0	0.003848	Y
4	STD5 280-652556/16	100.0	0.536014	50.0	1642587.0	0.00536	Y
5	STD10 280-652556/17	200.0	1.303913	50.0	1555702.0	0.00652	Y
6	ICIS 280-652556/18	1000.0	6.044964	50.0	1640721.0	0.006045	Y
7	STD75 280-652556/19	1500.0	7.621674	50.0	1645380.0	0.005081	Y
8	STD100 280-652556/20	2000.0	12.646904	50.0	1692264.0	0.006323	Y
9	STD200 280-652556/21	4000.0	23.815205	50.0	1731545.0	0.005954	Y



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Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

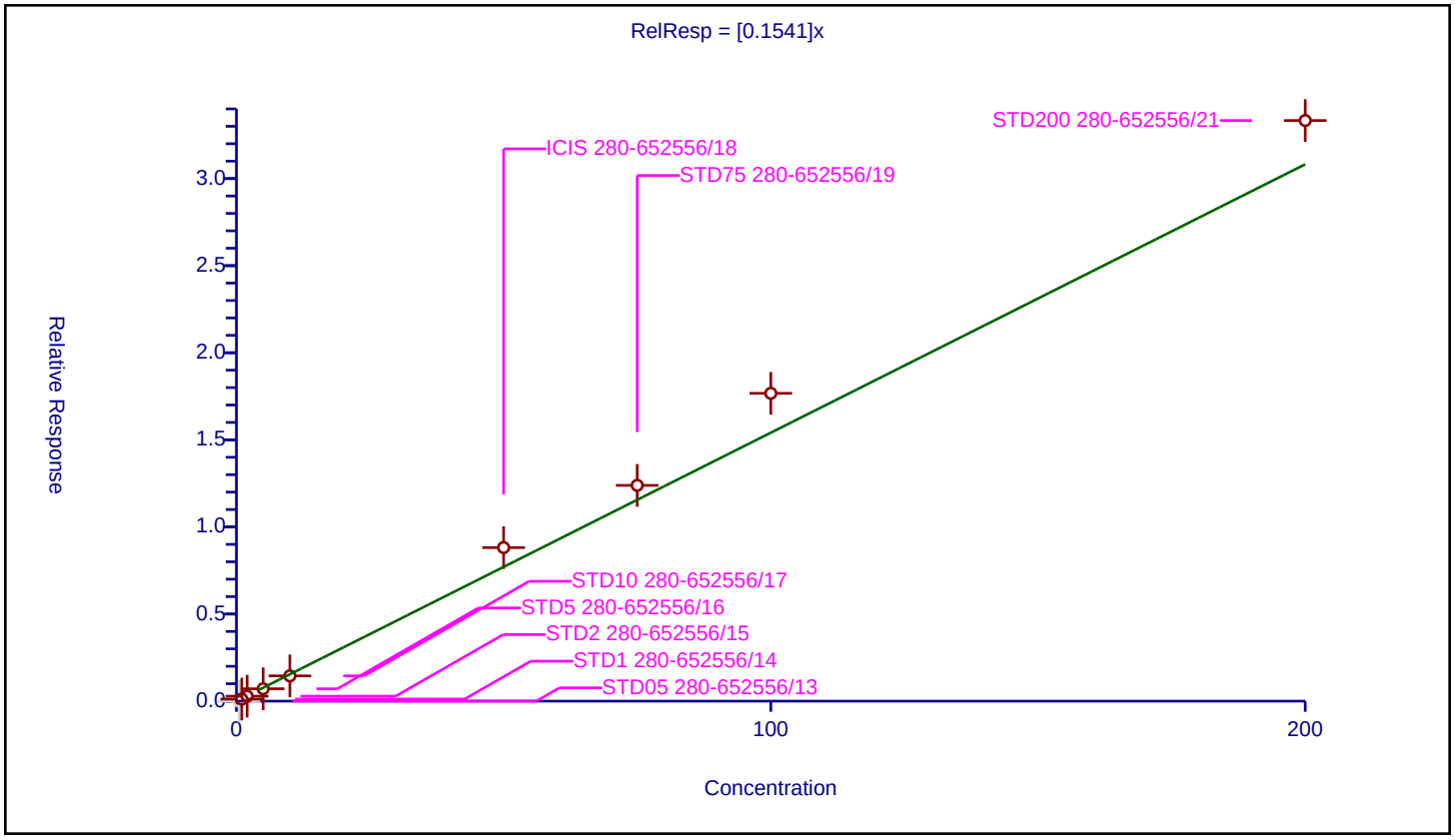
Curve Coefficients

Intercept:	0
Slope:	0.1541

Error Coefficients

Relative Standard Deviation:	13.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.0	50.0	1526758.0	0.0	N
2	STD1 280-652556/14	1.0	0.118458	50.0	1562581.0	0.118458	Y
3	STD2 280-652556/15	2.0	0.284818	50.0	1595053.0	0.142409	Y
4	STD5 280-652556/16	5.0	0.710282	50.0	1642587.0	0.142056	Y
5	STD10 280-652556/17	10.0	1.450342	50.0	1555702.0	0.145034	Y
6	ICIS 280-652556/18	50.0	8.815149	50.0	1640721.0	0.176303	Y
7	STD75 280-652556/19	75.0	12.387412	50.0	1645380.0	0.165165	Y
8	STD100 280-652556/20	100.0	17.671031	50.0	1692264.0	0.17671	Y
9	STD200 280-652556/21	200.0	33.331187	50.0	1731545.0	0.166656	Y



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Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

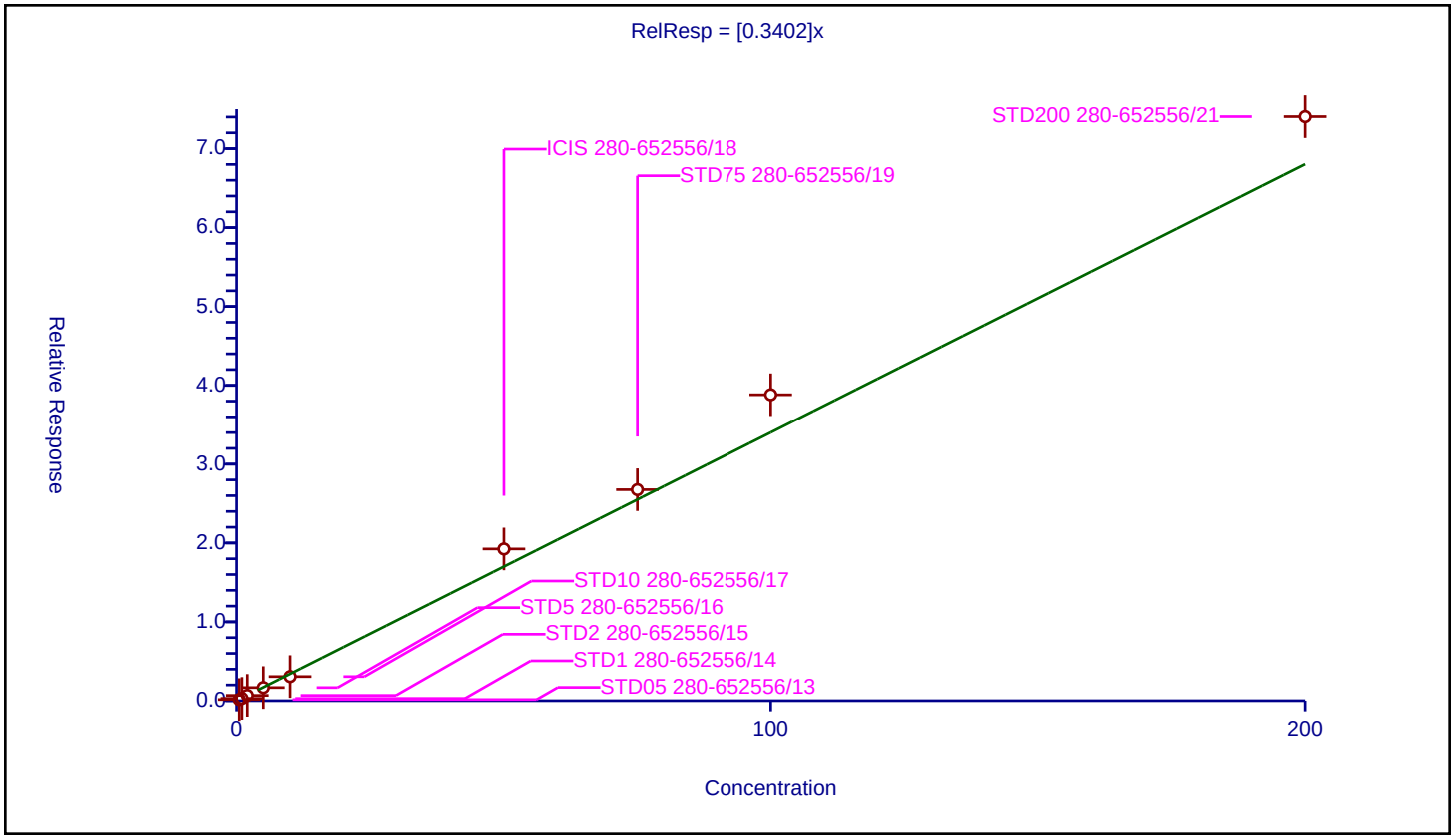
Curve Coefficients

Intercept:	0
Slope:	0.3402

Error Coefficients

Relative Standard Deviation:	11.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.147109	50.0	1526758.0	0.294218	Y
2	STD1 280-652556/14	1.0	0.291825	50.0	1562581.0	0.291825	Y
3	STD2 280-652556/15	2.0	0.673269	50.0	1595053.0	0.336635	Y
4	STD5 280-652556/16	5.0	1.665056	50.0	1642587.0	0.333011	Y
5	STD10 280-652556/17	10.0	3.057494	50.0	1555702.0	0.305749	Y
6	ICIS 280-652556/18	50.0	19.24535	50.0	1640721.0	0.384907	Y
7	STD75 280-652556/19	75.0	26.761842	50.0	1645380.0	0.356825	Y
8	STD100 280-652556/20	100.0	38.809075	50.0	1692264.0	0.388091	Y
9	STD200 280-652556/21	200.0	74.055944	50.0	1731545.0	0.37028	Y



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Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

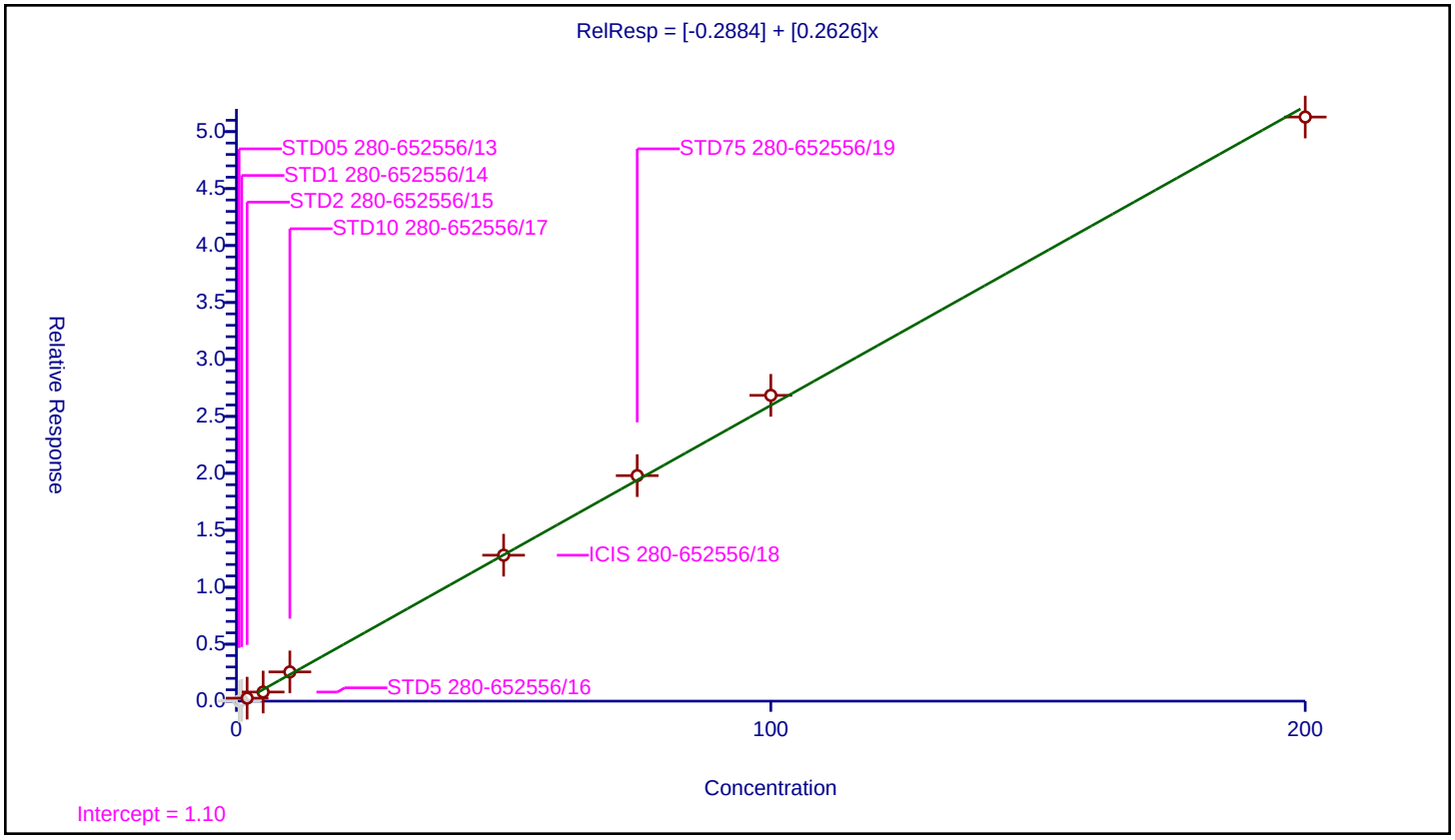
Curve Coefficients

Intercept:	-0.2884
Slope:	0.2626

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.0	50.0	1526758.0	0.0	N
2	STD1 280-652556/14	1.0	0.073532	50.0	1562581.0	0.073532	N
3	STD2 280-652556/15	2.0	0.262969	50.0	1595053.0	0.131485	Y
4	STD5 280-652556/16	5.0	0.800719	50.0	1642587.0	0.160144	Y
5	STD10 280-652556/17	10.0	2.566912	50.0	1555702.0	0.256691	Y
6	ICIS 280-652556/18	50.0	12.813086	50.0	1640721.0	0.256262	Y
7	STD75 280-652556/19	75.0	19.801839	50.0	1645380.0	0.264025	Y
8	STD100 280-652556/20	100.0	26.848914	50.0	1692264.0	0.268489	Y
9	STD200 280-652556/21	200.0	51.284287	50.0	1731545.0	0.256421	Y



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Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

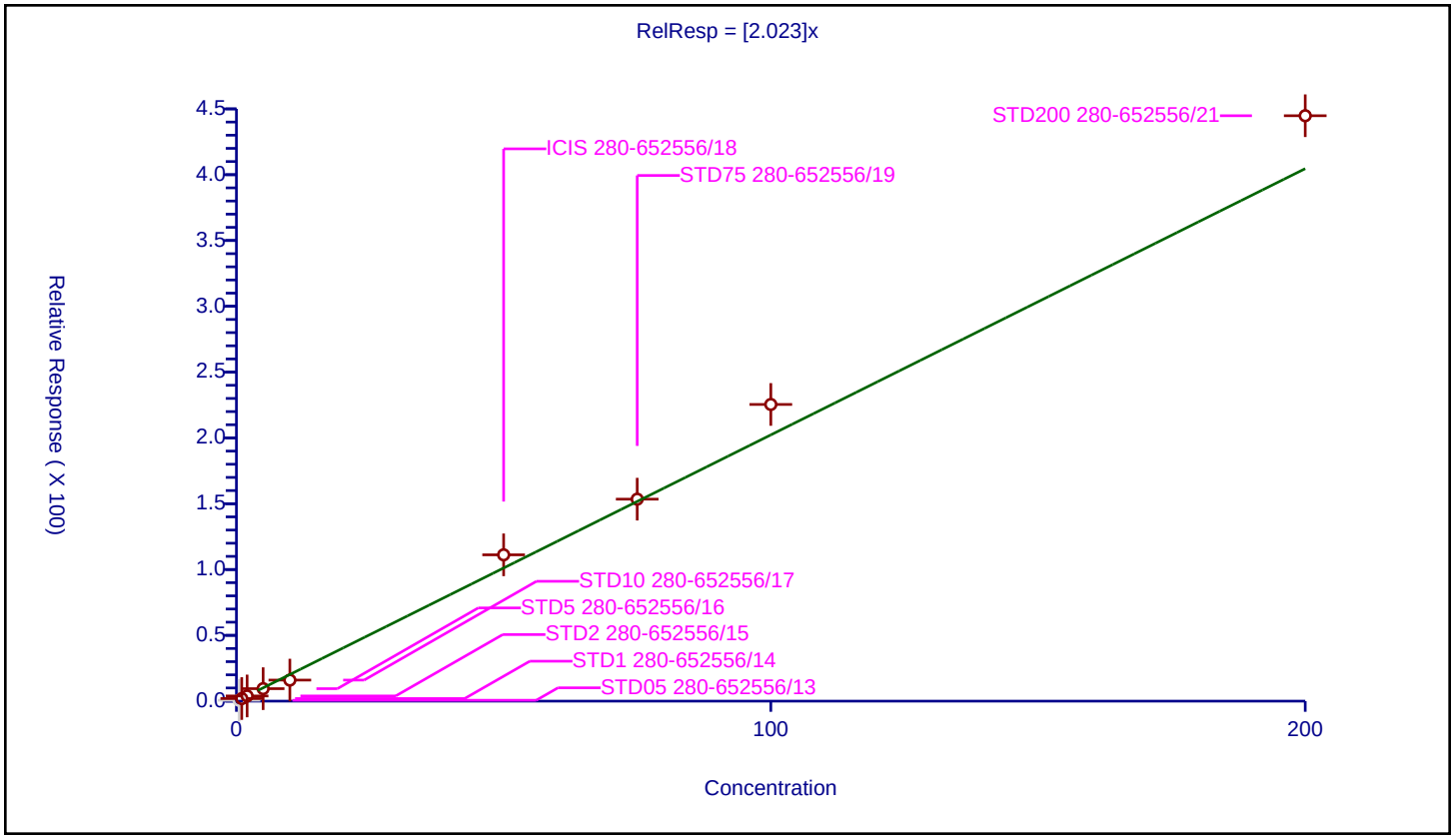
Curve Coefficients

Intercept:	0
Slope:	2.023

Error Coefficients

Relative Standard Deviation:	10.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.683322	50.0	305932.0	1.366644	N
2	STD1 280-652556/14	1.0	1.968563	50.0	321402.0	1.968563	Y
3	STD2 280-652556/15	2.0	3.941761	50.0	330639.0	1.970881	Y
4	STD5 280-652556/16	5.0	9.483477	50.0	336132.0	1.896695	Y
5	STD10 280-652556/17	10.0	15.994766	50.0	336632.0	1.599477	Y
6	ICIS 280-652556/18	50.0	111.176058	50.0	347976.0	2.223521	Y
7	STD75 280-652556/19	75.0	153.460734	50.0	350287.0	2.046143	Y
8	STD100 280-652556/20	100.0	225.425359	50.0	351468.0	2.254254	Y
9	STD200 280-652556/21	200.0	444.802085	50.0	344340.0	2.22401	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

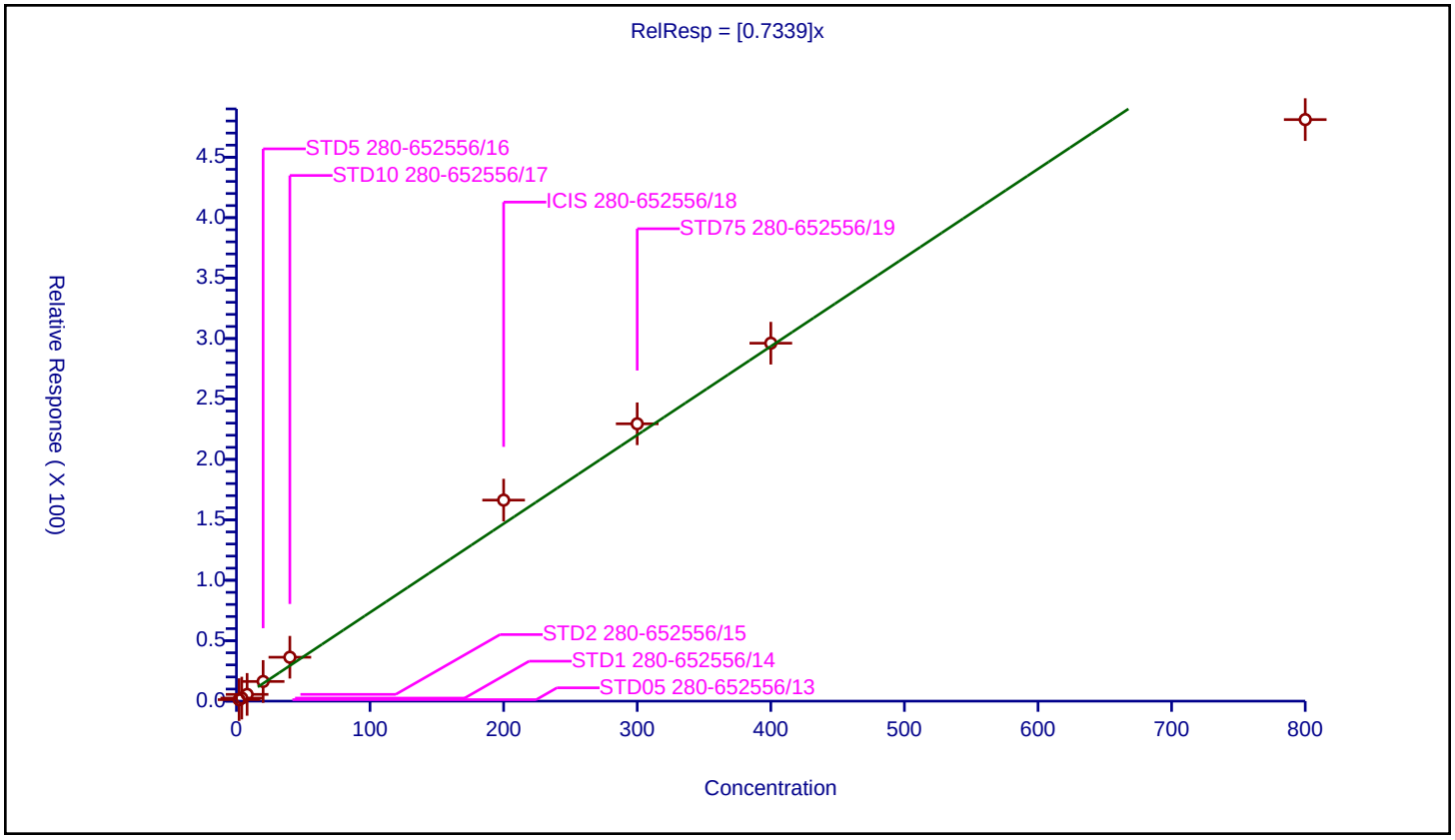
Curve Coefficients

Intercept:	0
Slope:	0.7339

Error Coefficients

Relative Standard Deviation:	14.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	2.0	1.235461	50.0	1526758.0	0.617731	Y
2	STD1 280-652556/14	4.0	2.512798	50.0	1562581.0	0.628199	Y
3	STD2 280-652556/15	8.0	5.588654	50.0	1595053.0	0.698582	Y
4	STD5 280-652556/16	20.0	16.282821	50.0	1642587.0	0.814141	Y
5	STD10 280-652556/17	40.0	36.31592	50.0	1555702.0	0.907898	Y
6	ICIS 280-652556/18	200.0	166.321696	50.0	1640721.0	0.831608	Y
7	STD75 280-652556/19	300.0	229.478844	50.0	1645380.0	0.764929	Y
8	STD100 280-652556/20	400.0	296.158224	50.0	1692264.0	0.740396	Y
9	STD200 280-652556/21	800.0	481.142217	50.0	1731545.0	0.601428	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

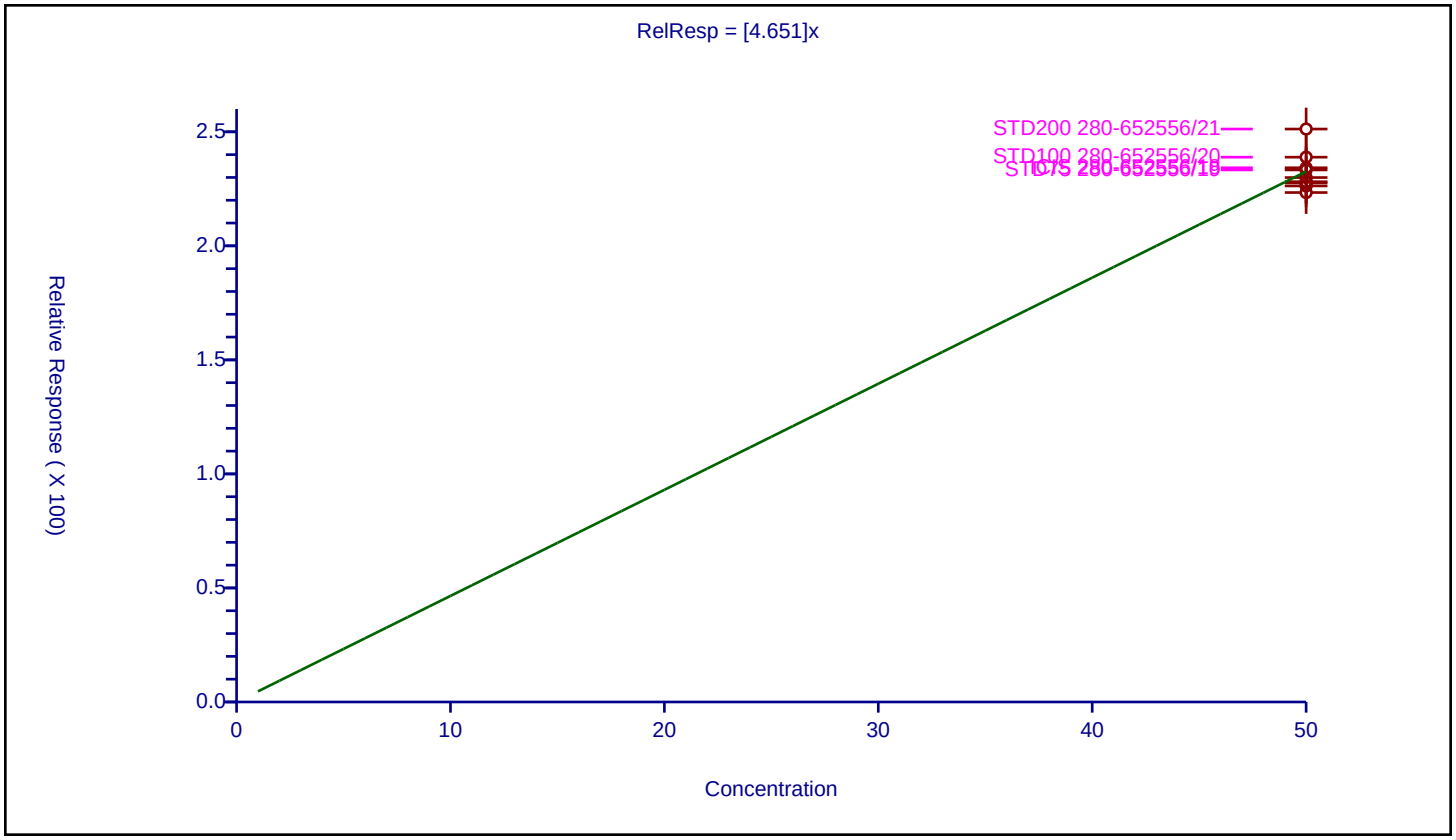
Curve Coefficients

Intercept:	0
Slope:	4.651

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	50.0	229.949302	50.0	305932.0	4.598986	Y
2	STD1 280-652556/14	50.0	227.612927	50.0	321402.0	4.552259	Y
3	STD2 280-652556/15	50.0	223.383509	50.0	330639.0	4.46767	Y
4	STD5 280-652556/16	50.0	226.266913	50.0	336132.0	4.525338	Y
5	STD10 280-652556/17	50.0	228.127005	50.0	336632.0	4.56254	Y
6	ICIS 280-652556/18	50.0	234.244459	50.0	347976.0	4.684889	Y
7	STD75 280-652556/19	50.0	233.294841	50.0	350287.0	4.665897	Y
8	STD100 280-652556/20	50.0	238.88832	50.0	351468.0	4.777766	Y
9	STD200 280-652556/21	50.0	251.221177	50.0	344340.0	5.024424	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

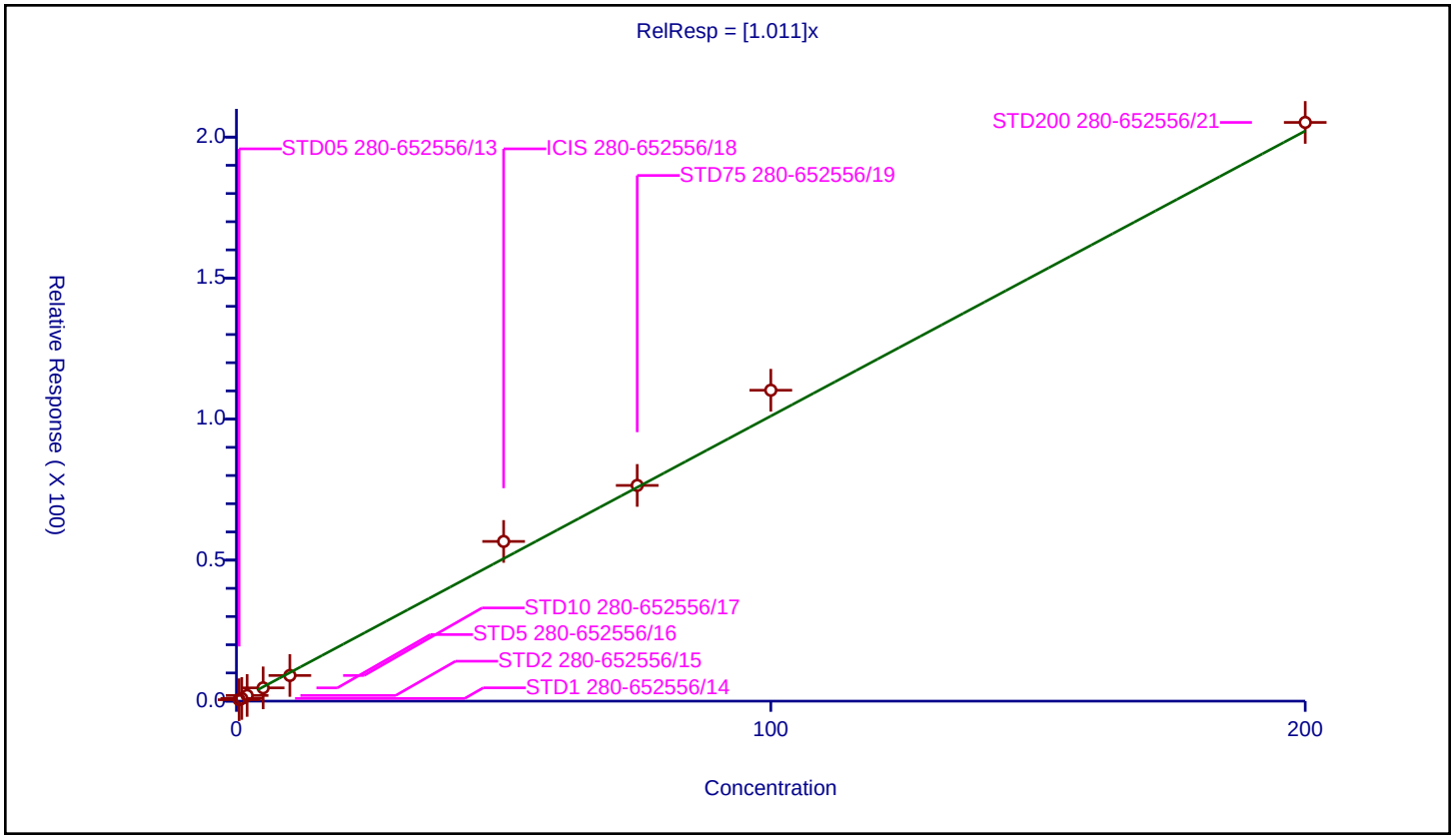
Curve Coefficients

Intercept:	0
Slope:	1.011

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.506269	50.0	1526758.0	1.012538	Y
2	STD1 280-652556/14	1.0	0.945583	50.0	1562581.0	0.945583	Y
3	STD2 280-652556/15	2.0	2.014134	50.0	1595053.0	1.007067	Y
4	STD5 280-652556/16	5.0	4.709553	50.0	1642587.0	0.941911	Y
5	STD10 280-652556/17	10.0	9.096858	50.0	1555702.0	0.909686	Y
6	ICIS 280-652556/18	50.0	56.627848	50.0	1640721.0	1.132557	Y
7	STD75 280-652556/19	75.0	76.492664	50.0	1645380.0	1.019902	Y
8	STD100 280-652556/20	100.0	110.24193	50.0	1692264.0	1.102419	Y
9	STD200 280-652556/21	200.0	205.203099	50.0	1731545.0	1.026015	Y



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Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

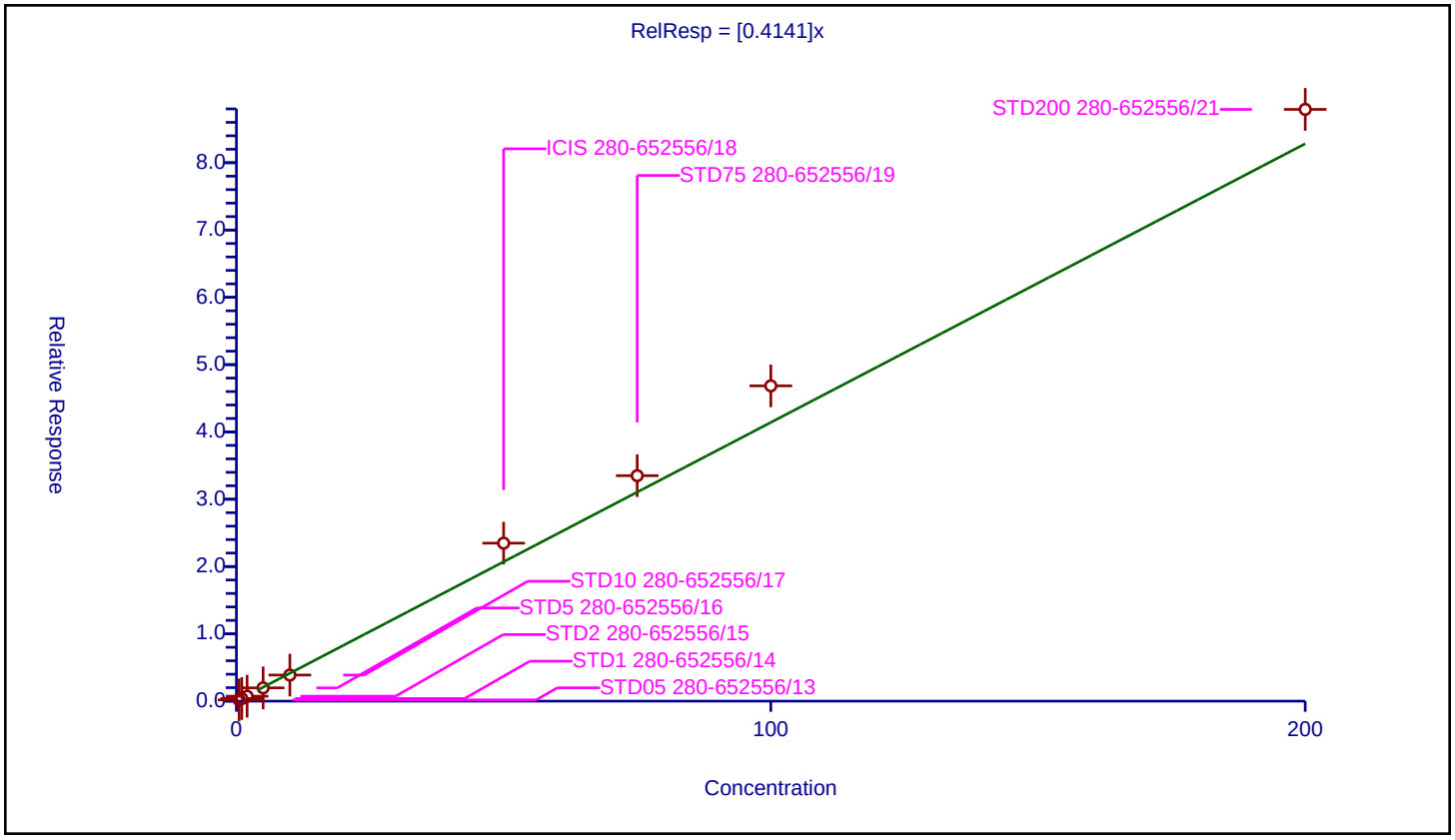
Curve Coefficients

Intercept:	0
Slope:	0.4141

Error Coefficients

Relative Standard Deviation:	10.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.18405	50.0	1526758.0	0.3681	Y
2	STD1 280-652556/14	1.0	0.38606	50.0	1562581.0	0.38606	Y
3	STD2 280-652556/15	2.0	0.733487	50.0	1595053.0	0.366743	Y
4	STD5 280-652556/16	5.0	1.971494	50.0	1642587.0	0.394299	Y
5	STD10 280-652556/17	10.0	3.875132	50.0	1555702.0	0.387513	Y
6	ICIS 280-652556/18	50.0	23.473186	50.0	1640721.0	0.469464	Y
7	STD75 280-652556/19	75.0	33.503051	50.0	1645380.0	0.446707	Y
8	STD100 280-652556/20	100.0	46.849812	50.0	1692264.0	0.468498	Y
9	STD200 280-652556/21	200.0	87.923386	50.0	1731545.0	0.439617	Y



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Calibration / Ethyl methacrylate

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

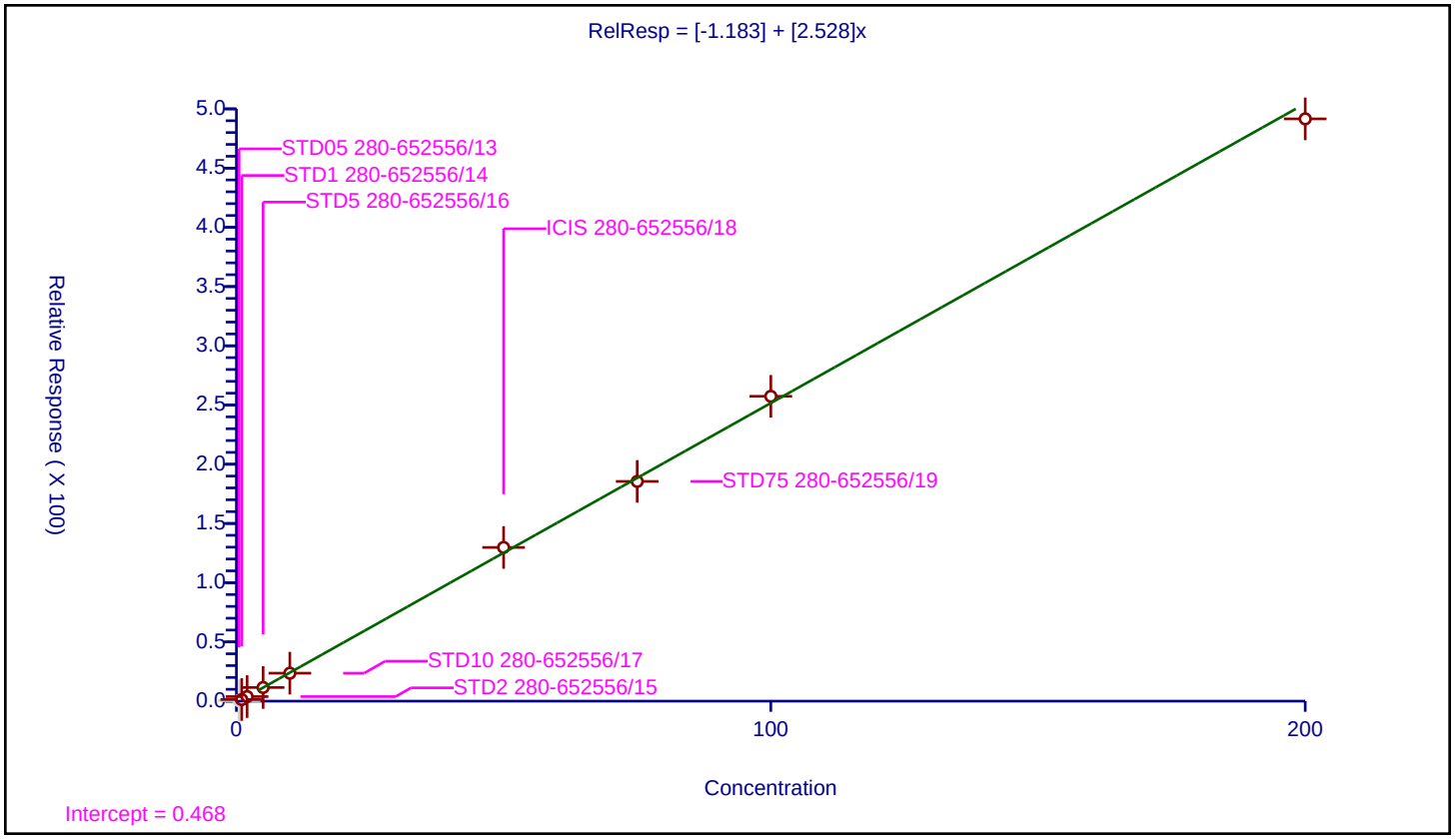
Curve Coefficients

Intercept:	-1.183
Slope:	2.528

Error Coefficients

Relative Standard Deviation:	2.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.386033	50.0	305932.0	0.772067	N
2	STD1 280-652556/14	1.0	1.352512	50.0	321402.0	1.352512	Y
3	STD2 280-652556/15	2.0	3.848003	50.0	330639.0	1.924002	Y
4	STD5 280-652556/16	5.0	11.514227	50.0	336132.0	2.302845	Y
5	STD10 280-652556/17	10.0	23.604559	50.0	336632.0	2.360456	Y
6	ICIS 280-652556/18	50.0	129.742425	50.0	347976.0	2.594848	Y
7	STD75 280-652556/19	75.0	185.489185	50.0	350287.0	2.473189	Y
8	STD100 280-652556/20	100.0	257.360272	50.0	351468.0	2.573603	Y
9	STD200 280-652556/21	200.0	491.563571	50.0	344340.0	2.457818	Y



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Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

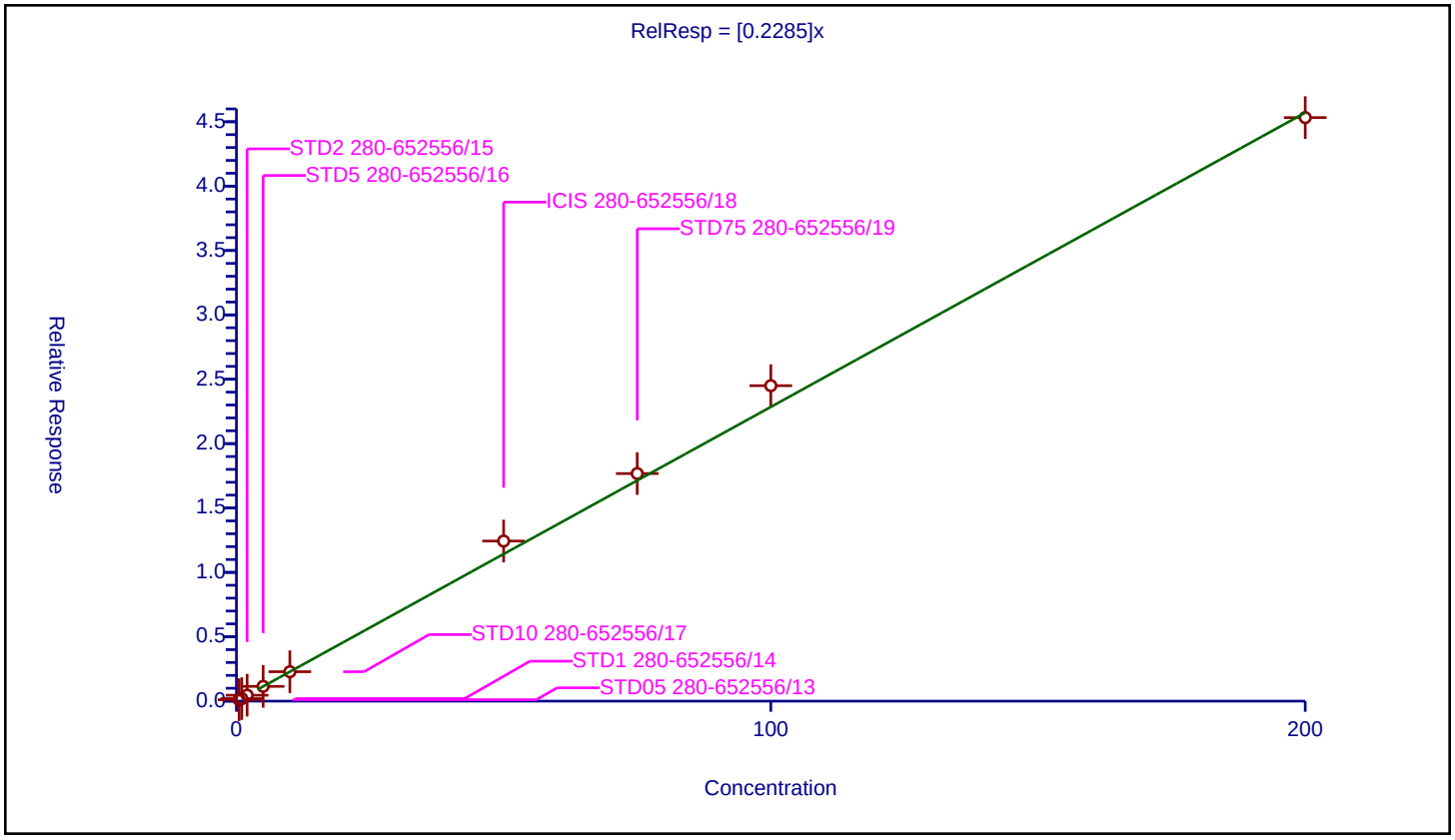
Curve Coefficients

Intercept:	0
Slope:	0.2285

Error Coefficients

Relative Standard Deviation:	6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.107843	50.0	1526758.0	0.215686	Y
2	STD1 280-652556/14	1.0	0.196886	50.0	1562581.0	0.196886	Y
3	STD2 280-652556/15	2.0	0.460141	50.0	1595053.0	0.230071	Y
4	STD5 280-652556/16	5.0	1.147732	50.0	1642587.0	0.229546	Y
5	STD10 280-652556/17	10.0	2.284146	50.0	1555702.0	0.228415	Y
6	ICIS 280-652556/18	50.0	12.434533	50.0	1640721.0	0.248691	Y
7	STD75 280-652556/19	75.0	17.6785	50.0	1645380.0	0.235713	Y
8	STD100 280-652556/20	100.0	24.502678	50.0	1692264.0	0.245027	Y
9	STD200 280-652556/21	200.0	45.324147	50.0	1731545.0	0.226621	Y



Calibration / Tetrachloroethene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

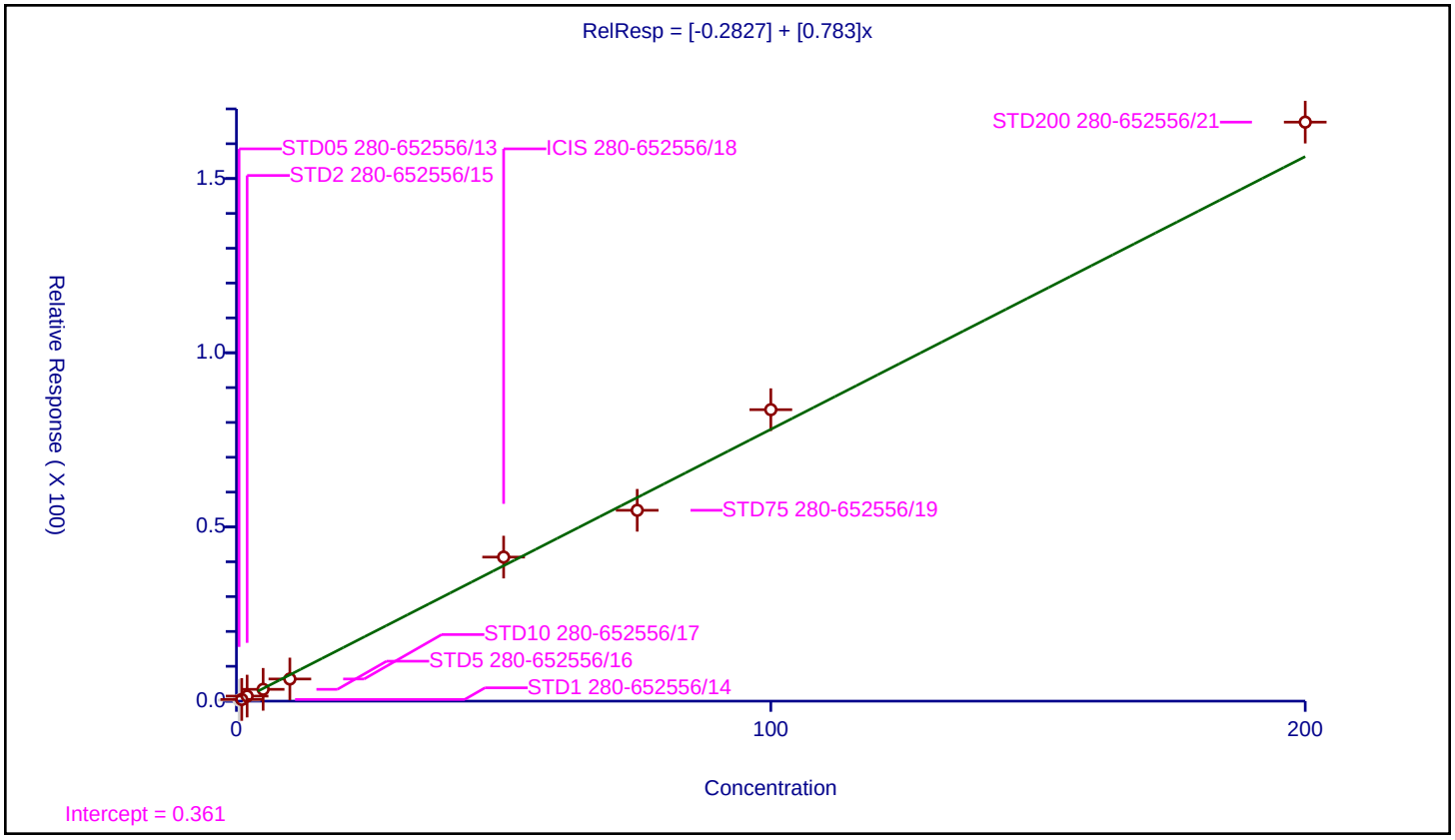
Curve Coefficients

Intercept:	-0.2827
Slope:	0.783

Error Coefficients

Relative Standard Deviation:	9.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.279964	50.0	305932.0	0.559928	N
2	STD1 280-652556/14	1.0	0.479929	50.0	321402.0	0.479929	Y
3	STD2 280-652556/15	2.0	1.447349	50.0	330639.0	0.723674	Y
4	STD5 280-652556/16	5.0	3.387508	50.0	336132.0	0.677502	Y
5	STD10 280-652556/17	10.0	6.354714	50.0	336632.0	0.635471	Y
6	ICIS 280-652556/18	50.0	41.350409	50.0	347976.0	0.827008	Y
7	STD75 280-652556/19	75.0	54.782079	50.0	350287.0	0.730428	Y
8	STD100 280-652556/20	100.0	83.663093	50.0	351468.0	0.836631	Y
9	STD200 280-652556/21	200.0	166.197653	50.0	344340.0	0.830988	Y



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Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

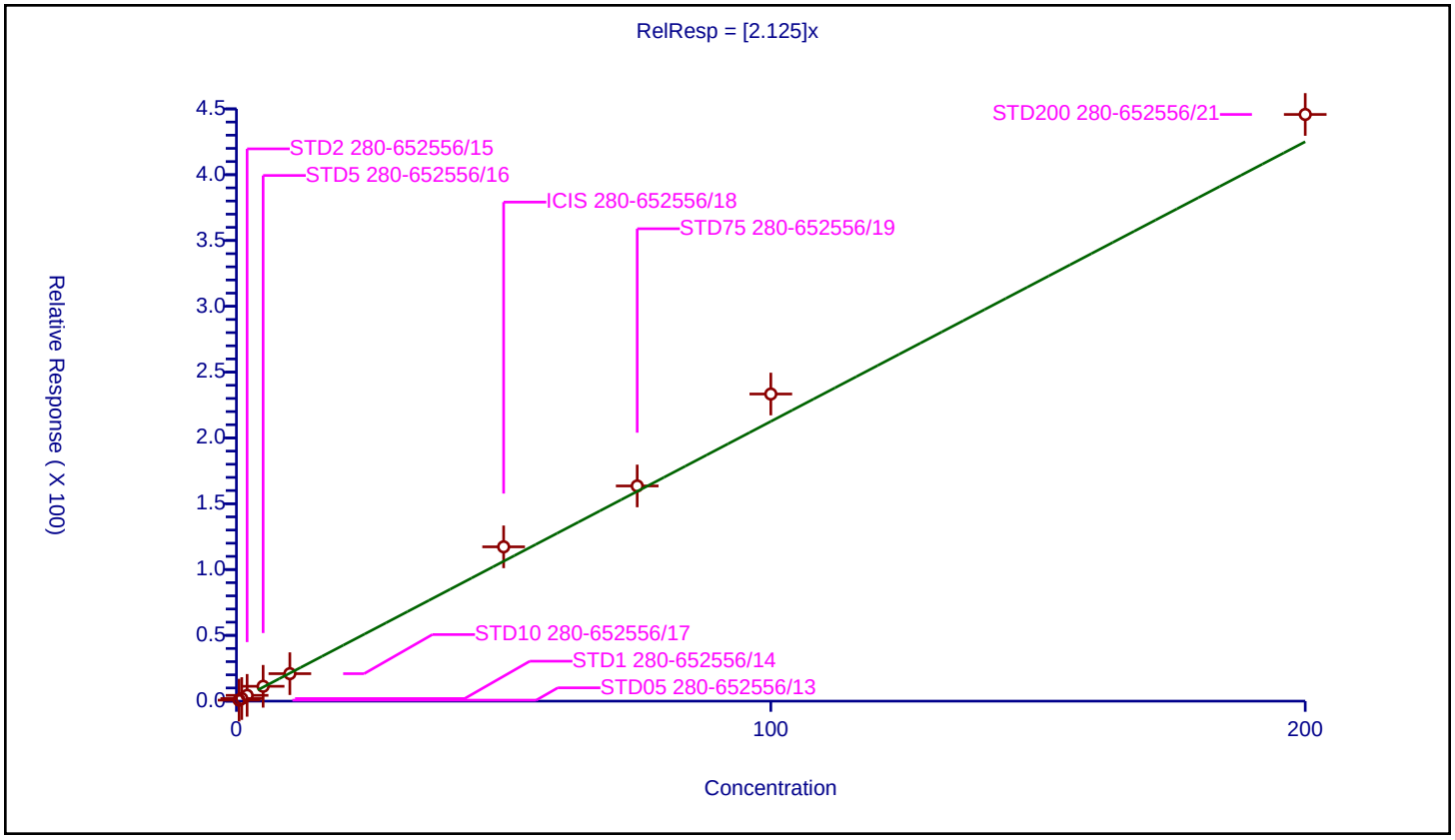
Curve Coefficients

Intercept:	0
Slope:	2.125

Error Coefficients

Relative Standard Deviation:	11.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.760463	50.0	305932.0	1.520926	Y
2	STD1 280-652556/14	1.0	1.977741	50.0	321402.0	1.977741	Y
3	STD2 280-652556/15	2.0	4.397394	50.0	330639.0	2.198697	Y
4	STD5 280-652556/16	5.0	11.273547	50.0	336132.0	2.254709	Y
5	STD10 280-652556/17	10.0	20.882596	50.0	336632.0	2.08826	Y
6	ICIS 280-652556/18	50.0	117.24458	50.0	347976.0	2.344892	Y
7	STD75 280-652556/19	75.0	163.495505	50.0	350287.0	2.17994	Y
8	STD100 280-652556/20	100.0	233.356806	50.0	351468.0	2.333568	Y
9	STD200 280-652556/21	200.0	445.771911	50.0	344340.0	2.22886	Y



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Calibration / 2-Hexanone

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

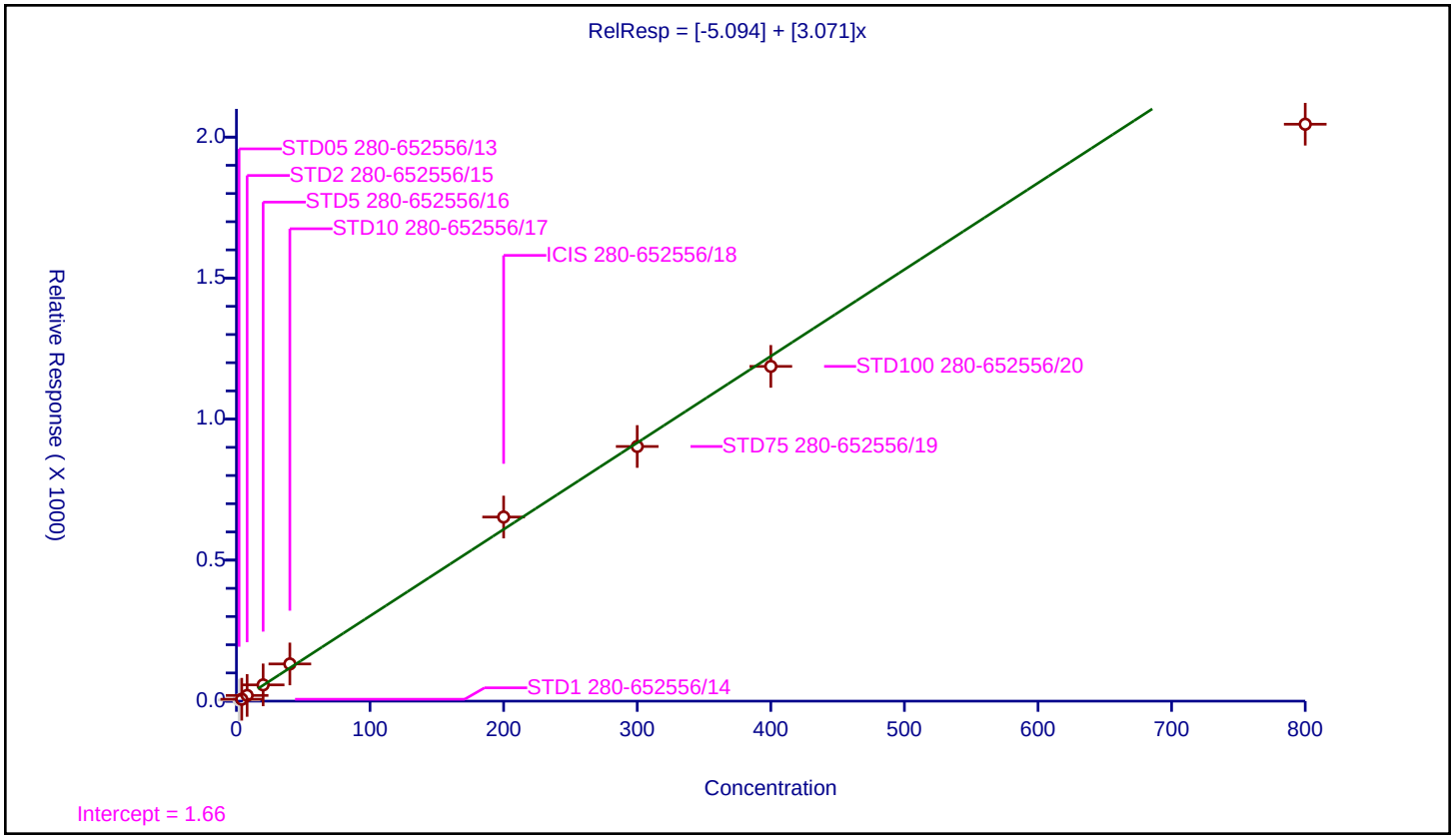
Curve Coefficients

Intercept:	-5.094
Slope:	3.071

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	2.0	4.059889	50.0	305932.0	2.029945	N
2	STD1 280-652556/14	4.0	6.787139	50.0	321402.0	1.696785	Y
3	STD2 280-652556/15	8.0	20.297666	50.0	330639.0	2.537208	Y
4	STD5 280-652556/16	20.0	57.619774	50.0	336132.0	2.880989	Y
5	STD10 280-652556/17	40.0	131.924178	50.0	336632.0	3.298104	Y
6	ICIS 280-652556/18	200.0	652.849909	50.0	347976.0	3.26425	Y
7	STD75 280-652556/19	300.0	902.947298	50.0	350287.0	3.009824	Y
8	STD100 280-652556/20	400.0	1186.964816	50.0	351468.0	2.967412	Y
9	STD200 280-652556/21	800.0	2045.665912	50.0	344340.0	2.557082	Y



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Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

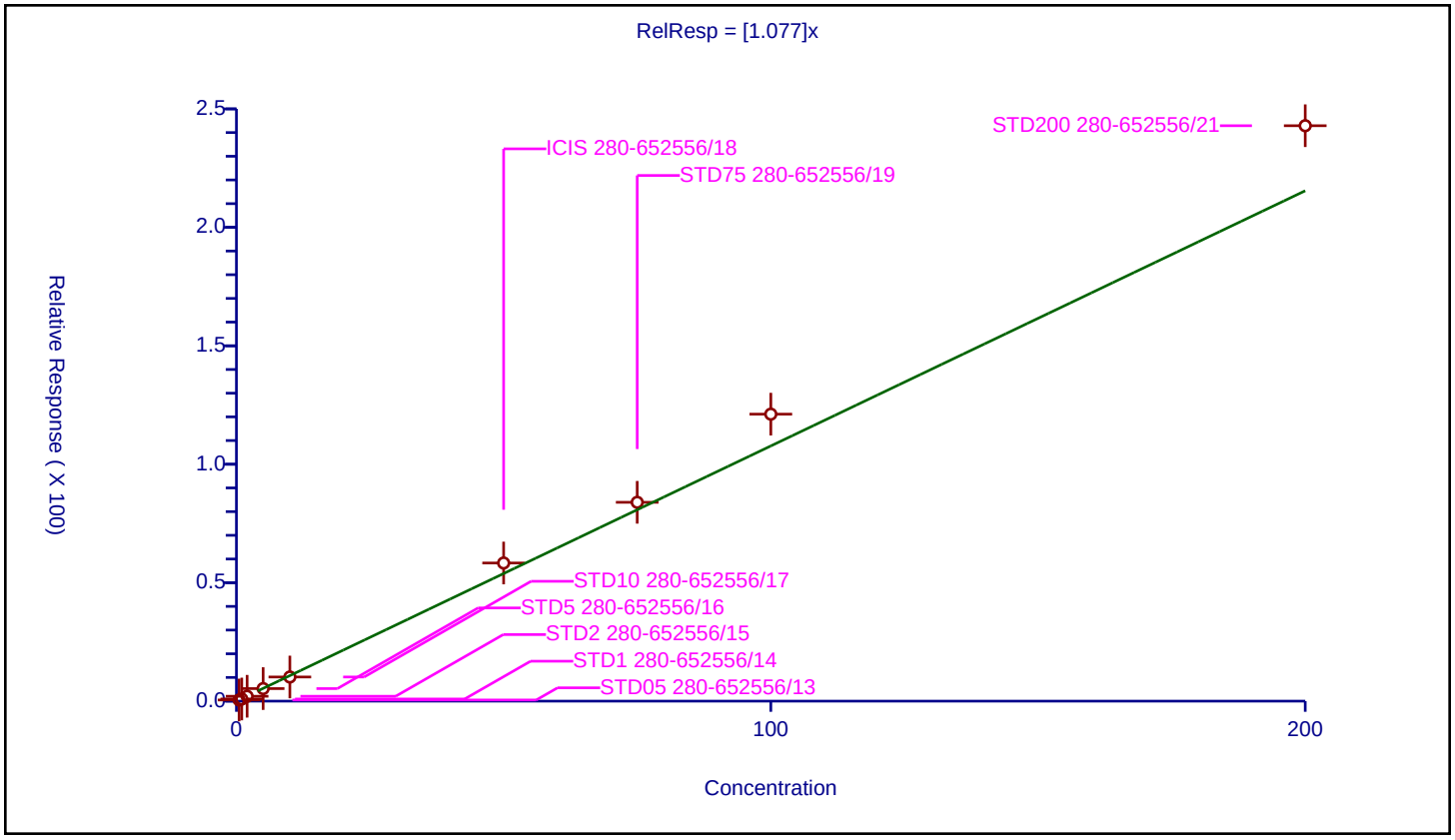
Curve Coefficients

Intercept:	0
Slope:	1.077

Error Coefficients

Relative Standard Deviation:	10.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.483931	50.0	305932.0	0.967862	Y
2	STD1 280-652556/14	1.0	0.904164	50.0	321402.0	0.904164	Y
3	STD2 280-652556/15	2.0	2.064941	50.0	330639.0	1.03247	Y
4	STD5 280-652556/16	5.0	5.29658	50.0	336132.0	1.059316	Y
5	STD10 280-652556/17	10.0	10.194367	50.0	336632.0	1.019437	Y
6	ICIS 280-652556/18	50.0	58.313792	50.0	347976.0	1.166276	Y
7	STD75 280-652556/19	75.0	83.938171	50.0	350287.0	1.119176	Y
8	STD100 280-652556/20	100.0	121.146164	50.0	351468.0	1.211462	Y
9	STD200 280-652556/21	200.0	242.898589	50.0	344340.0	1.214493	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

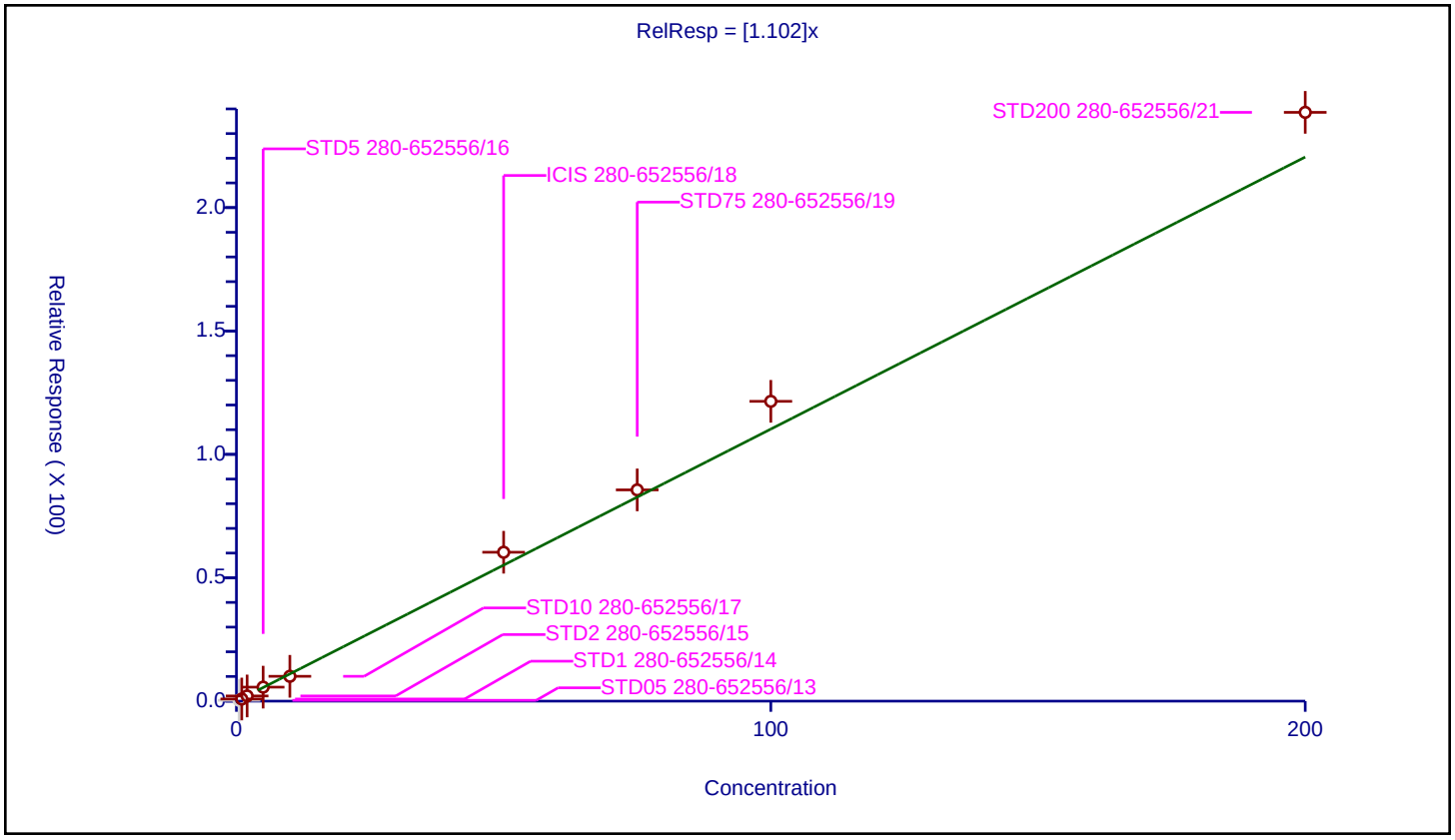
Curve Coefficients

Intercept:	0
Slope:	1.102

Error Coefficients

Relative Standard Deviation:	10.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.341906	50.0	305932.0	0.683812	N
2	STD1 280-652556/14	1.0	0.873517	50.0	321402.0	0.873517	Y
3	STD2 280-652556/15	2.0	2.099873	50.0	330639.0	1.049937	Y
4	STD5 280-652556/16	5.0	5.670243	50.0	336132.0	1.134049	Y
5	STD10 280-652556/17	10.0	10.059353	50.0	336632.0	1.005935	Y
6	ICIS 280-652556/18	50.0	60.339506	50.0	347976.0	1.20679	Y
7	STD75 280-652556/19	75.0	85.601378	50.0	350287.0	1.141352	Y
8	STD100 280-652556/20	100.0	121.49328	50.0	351468.0	1.214933	Y
9	STD200 280-652556/21	200.0	238.593686	50.0	344340.0	1.192968	Y



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Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

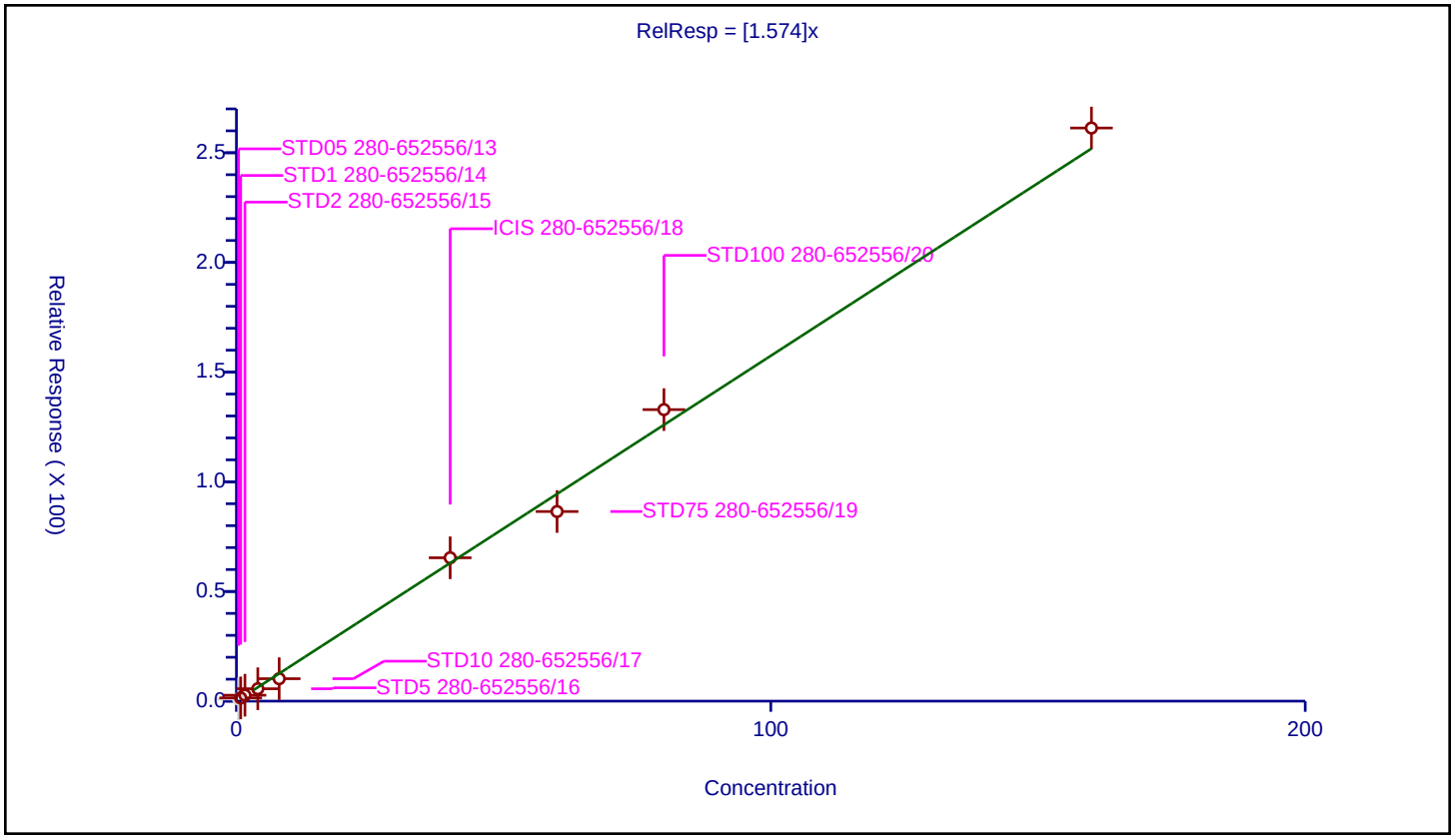
Curve Coefficients

Intercept:	0
Slope:	1.574

Error Coefficients

Relative Standard Deviation:	11.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.4	0.97489	50.0	305932.0	2.437225	N
2	STD1 280-652556/14	0.8	1.477122	50.0	321402.0	1.846403	Y
3	STD2 280-652556/15	1.6	2.699923	50.0	330639.0	1.687452	Y
4	STD5 280-652556/16	4.0	5.652244	50.0	336132.0	1.413061	Y
5	STD10 280-652556/17	8.0	10.231796	50.0	336632.0	1.278975	Y
6	ICIS 280-652556/18	40.0	65.357956	50.0	347976.0	1.633949	Y
7	STD75 280-652556/19	60.0	86.444544	50.0	350287.0	1.440742	Y
8	STD100 280-652556/20	80.0	132.90641	50.0	351468.0	1.66133	Y
9	STD200 280-652556/21	160.0	261.283905	50.0	344340.0	1.633024	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

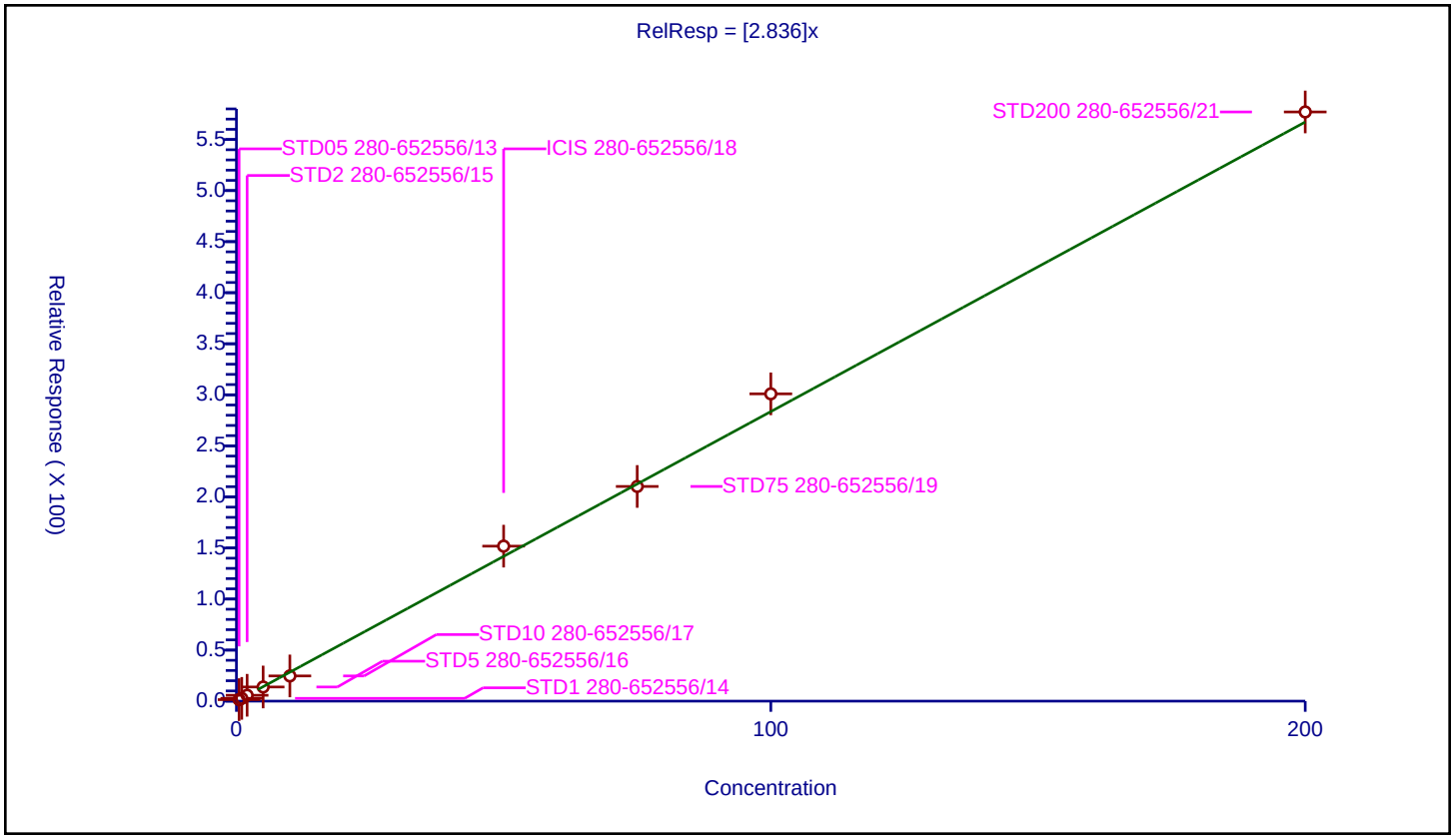
Curve Coefficients

Intercept:	0
Slope:	2.836

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	1.480558	50.0	305932.0	2.961116	Y
2	STD1 280-652556/14	1.0	2.71358	50.0	321402.0	2.71358	Y
3	STD2 280-652556/15	2.0	5.749473	50.0	330639.0	2.874736	Y
4	STD5 280-652556/16	5.0	13.855866	50.0	336132.0	2.771173	Y
5	STD10 280-652556/17	10.0	24.675313	50.0	336632.0	2.467531	Y
6	ICIS 280-652556/18	50.0	151.794664	50.0	347976.0	3.035893	Y
7	STD75 280-652556/19	75.0	210.232895	50.0	350287.0	2.803105	Y
8	STD100 280-652556/20	100.0	300.937496	50.0	351468.0	3.009375	Y
9	STD200 280-652556/21	200.0	576.994831	50.0	344340.0	2.884974	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

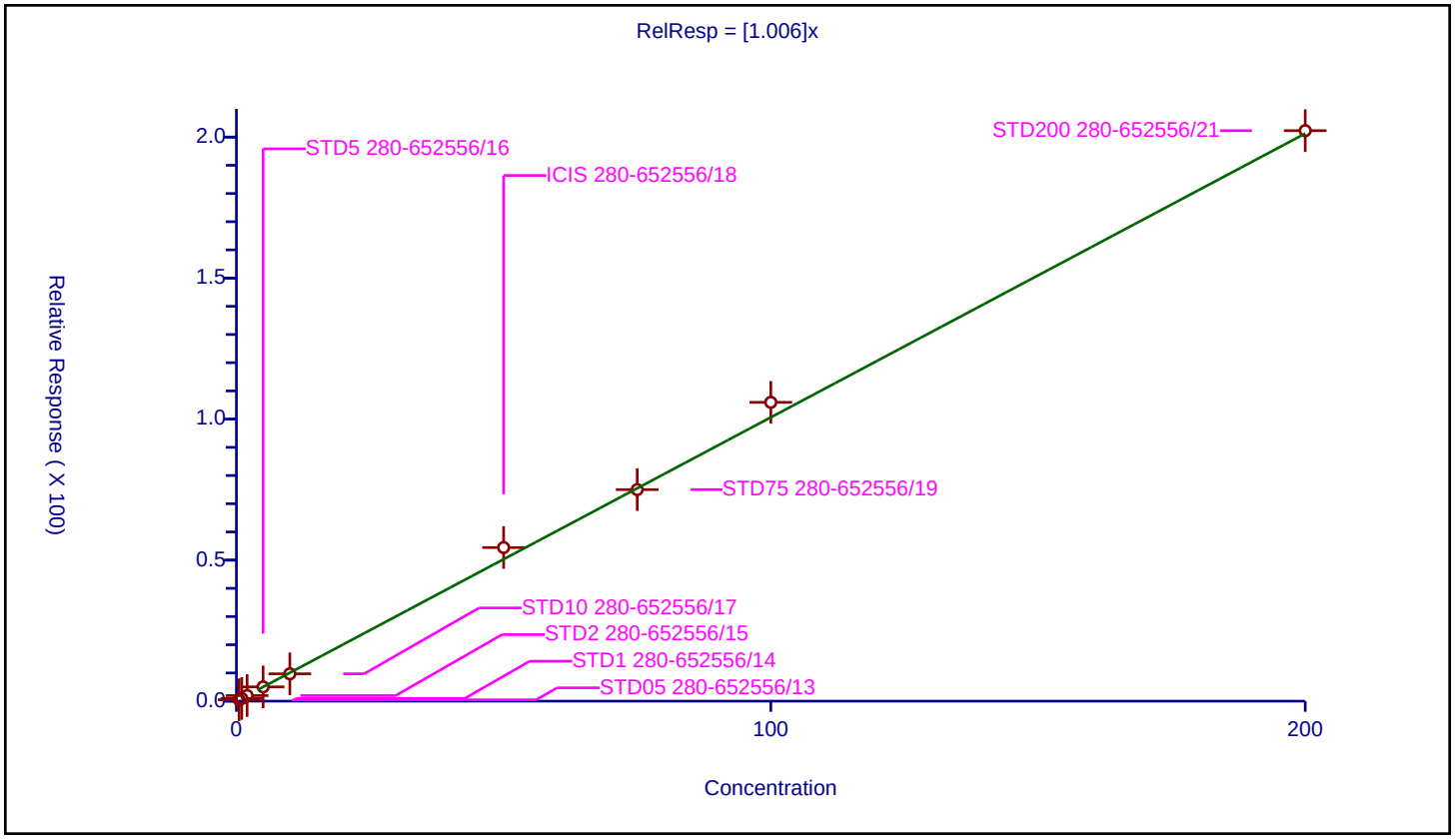
Curve Coefficients

Intercept:	0
Slope:	1.006

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.487036	50.0	305932.0	0.974073	Y
2	STD1 280-652556/14	1.0	0.95239	50.0	321402.0	0.95239	Y
3	STD2 280-652556/15	2.0	1.980256	50.0	330639.0	0.990128	Y
4	STD5 280-652556/16	5.0	5.053967	50.0	336132.0	1.010793	Y
5	STD10 280-652556/17	10.0	9.692038	50.0	336632.0	0.969204	Y
6	ICIS 280-652556/18	50.0	54.460365	50.0	347976.0	1.089207	Y
7	STD75 280-652556/19	75.0	74.995789	50.0	350287.0	0.999944	Y
8	STD100 280-652556/20	100.0	105.957584	50.0	351468.0	1.059576	Y
9	STD200 280-652556/21	200.0	202.285096	50.0	344340.0	1.011425	Y



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Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

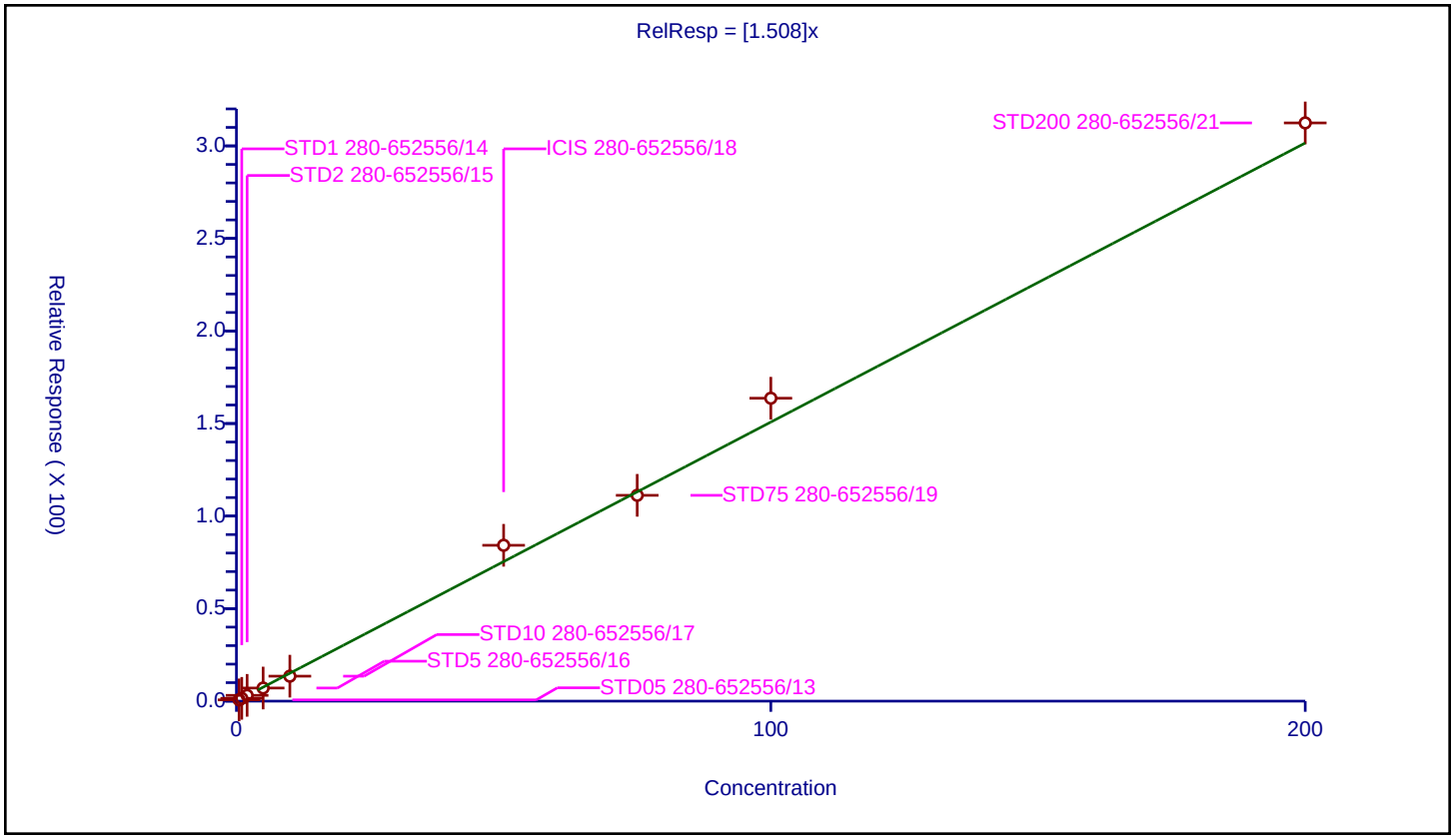
Curve Coefficients

Intercept:	0
Slope:	1.508

Error Coefficients

Relative Standard Deviation:	7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.680543	50.0	305932.0	1.361087	Y
2	STD1 280-652556/14	1.0	1.514459	50.0	321402.0	1.514459	Y
3	STD2 280-652556/15	2.0	3.126219	50.0	330639.0	1.56311	Y
4	STD5 280-652556/16	5.0	7.086204	50.0	336132.0	1.417241	Y
5	STD10 280-652556/17	10.0	13.487874	50.0	336632.0	1.348787	Y
6	ICIS 280-652556/18	50.0	84.209112	50.0	347976.0	1.684182	Y
7	STD75 280-652556/19	75.0	111.203099	50.0	350287.0	1.482708	Y
8	STD100 280-652556/20	100.0	163.676067	50.0	351468.0	1.636761	Y
9	STD200 280-652556/21	200.0	312.415636	50.0	344340.0	1.562078	Y



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Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

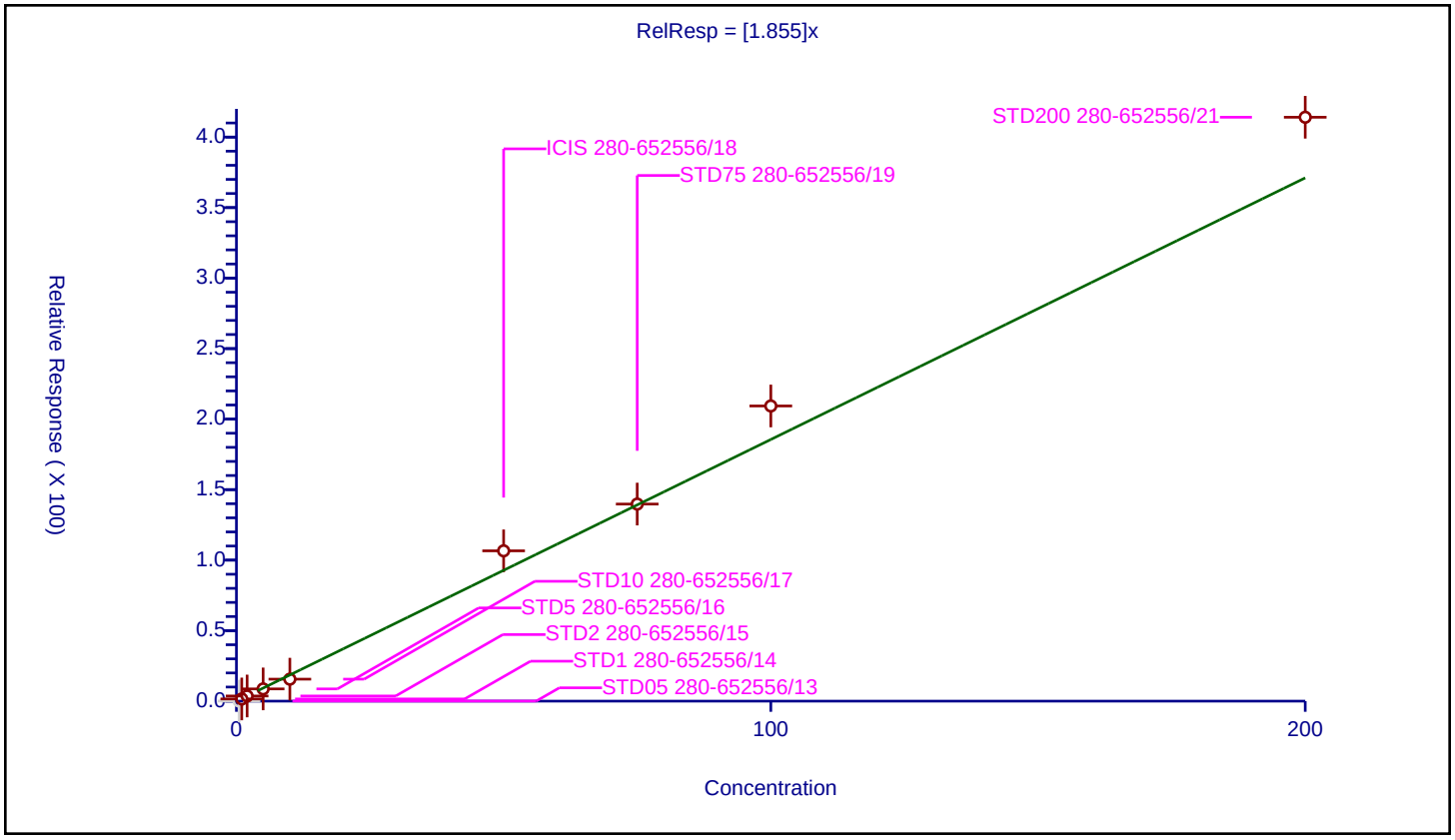
Curve Coefficients

Intercept:	0
Slope:	1.855

Error Coefficients

Relative Standard Deviation:	12.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.07518	50.0	305932.0	0.15036	N
2	STD1 280-652556/14	1.0	1.565174	50.0	321402.0	1.565174	Y
3	STD2 280-652556/15	2.0	3.647785	50.0	330639.0	1.823893	Y
4	STD5 280-652556/16	5.0	8.67799	50.0	336132.0	1.735598	Y
5	STD10 280-652556/17	10.0	15.596556	50.0	336632.0	1.559656	Y
6	ICIS 280-652556/18	50.0	106.588098	50.0	347976.0	2.131762	Y
7	STD75 280-652556/19	75.0	139.766249	50.0	350287.0	1.86355	Y
8	STD100 280-652556/20	100.0	209.315357	50.0	351468.0	2.093154	Y
9	STD200 280-652556/21	200.0	414.077365	50.0	344340.0	2.070387	Y



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Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

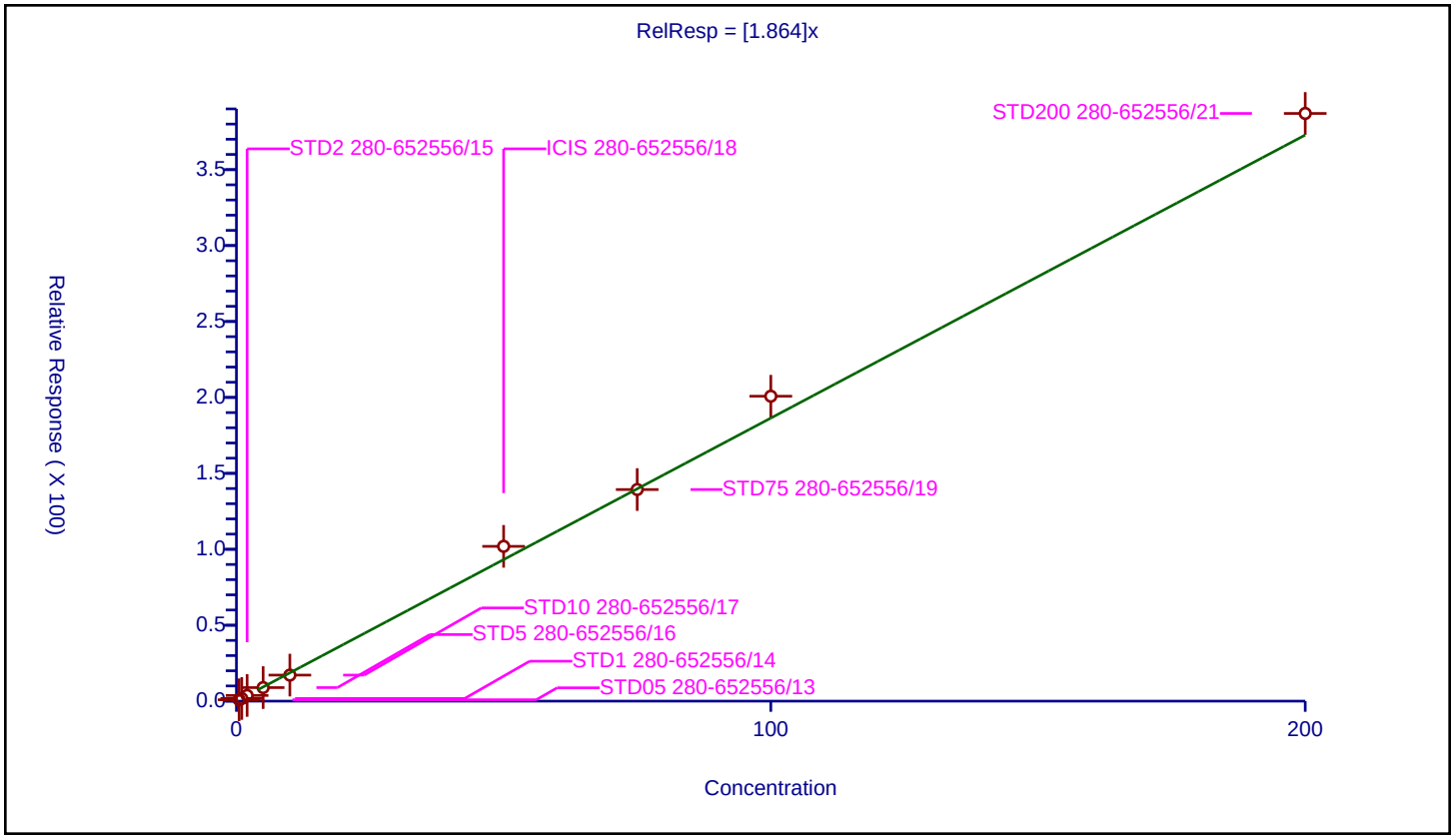
Curve Coefficients

Intercept:	0
Slope:	1.864

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.907391	50.0	305932.0	1.814782	Y
2	STD1 280-652556/14	1.0	1.752945	50.0	321402.0	1.752945	Y
3	STD2 280-652556/15	2.0	3.73746	50.0	330639.0	1.86873	Y
4	STD5 280-652556/16	5.0	8.92566	50.0	336132.0	1.785132	Y
5	STD10 280-652556/17	10.0	17.147211	50.0	336632.0	1.714721	Y
6	ICIS 280-652556/18	50.0	101.928438	50.0	347976.0	2.038569	Y
7	STD75 280-652556/19	75.0	139.340455	50.0	350287.0	1.857873	Y
8	STD100 280-652556/20	100.0	200.788834	50.0	351468.0	2.007888	Y
9	STD200 280-652556/21	200.0	387.003833	50.0	344340.0	1.935019	Y



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Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

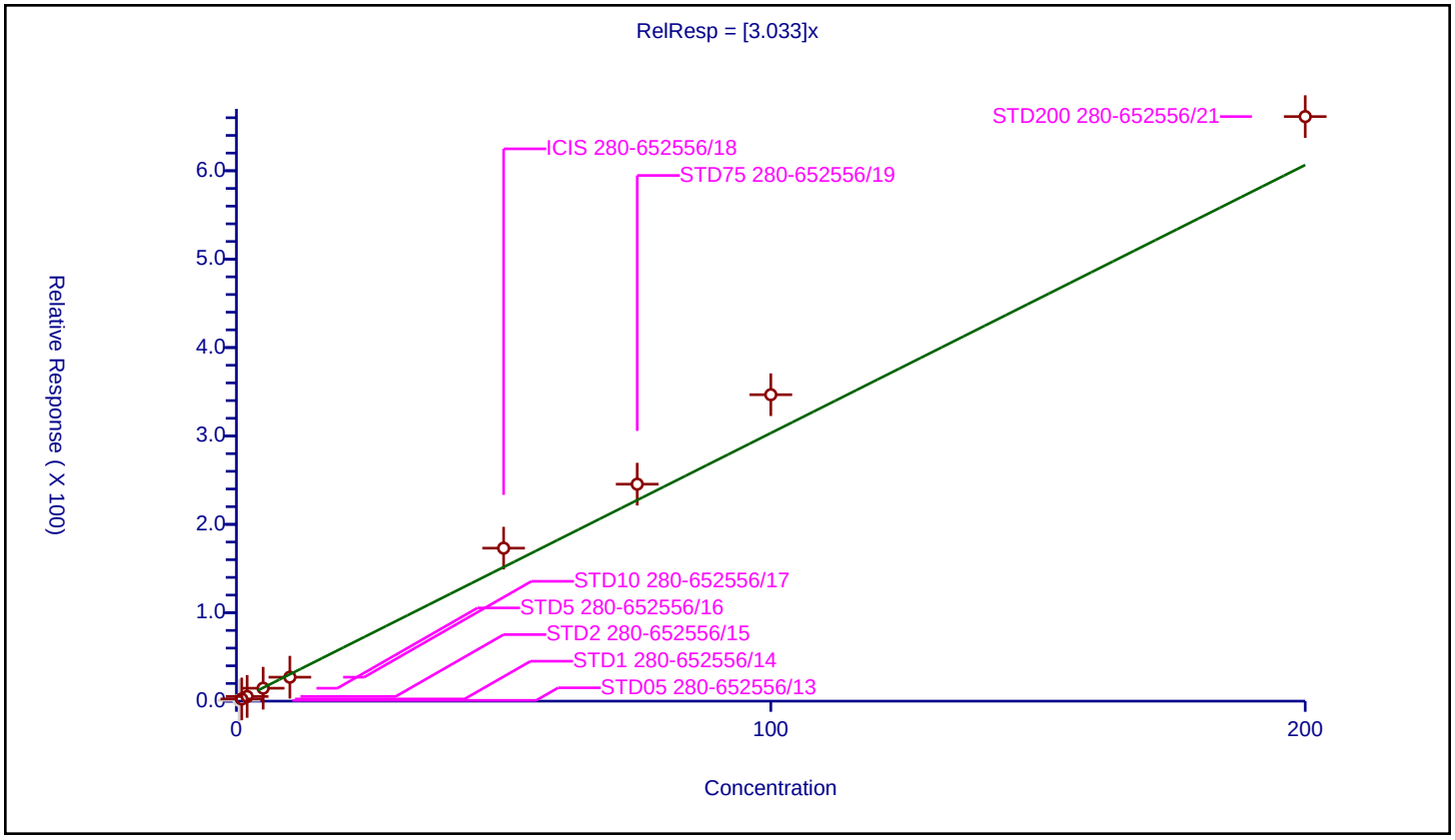
Curve Coefficients

Intercept:	0
Slope:	3.033

Error Coefficients

Relative Standard Deviation:	13.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.924388	50.0	305932.0	1.848777	N
2	STD1 280-652556/14	1.0	2.47276	50.0	321402.0	2.47276	Y
3	STD2 280-652556/15	2.0	5.291269	50.0	330639.0	2.645635	Y
4	STD5 280-652556/16	5.0	14.631454	50.0	336132.0	2.926291	Y
5	STD10 280-652556/17	10.0	27.090265	50.0	336632.0	2.709026	Y
6	ICIS 280-652556/18	50.0	173.081333	50.0	347976.0	3.461627	Y
7	STD75 280-652556/19	75.0	245.472712	50.0	350287.0	3.272969	Y
8	STD100 280-652556/20	100.0	346.655599	50.0	351468.0	3.466556	Y
9	STD200 280-652556/21	200.0	661.303218	50.0	344340.0	3.306516	Y



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Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

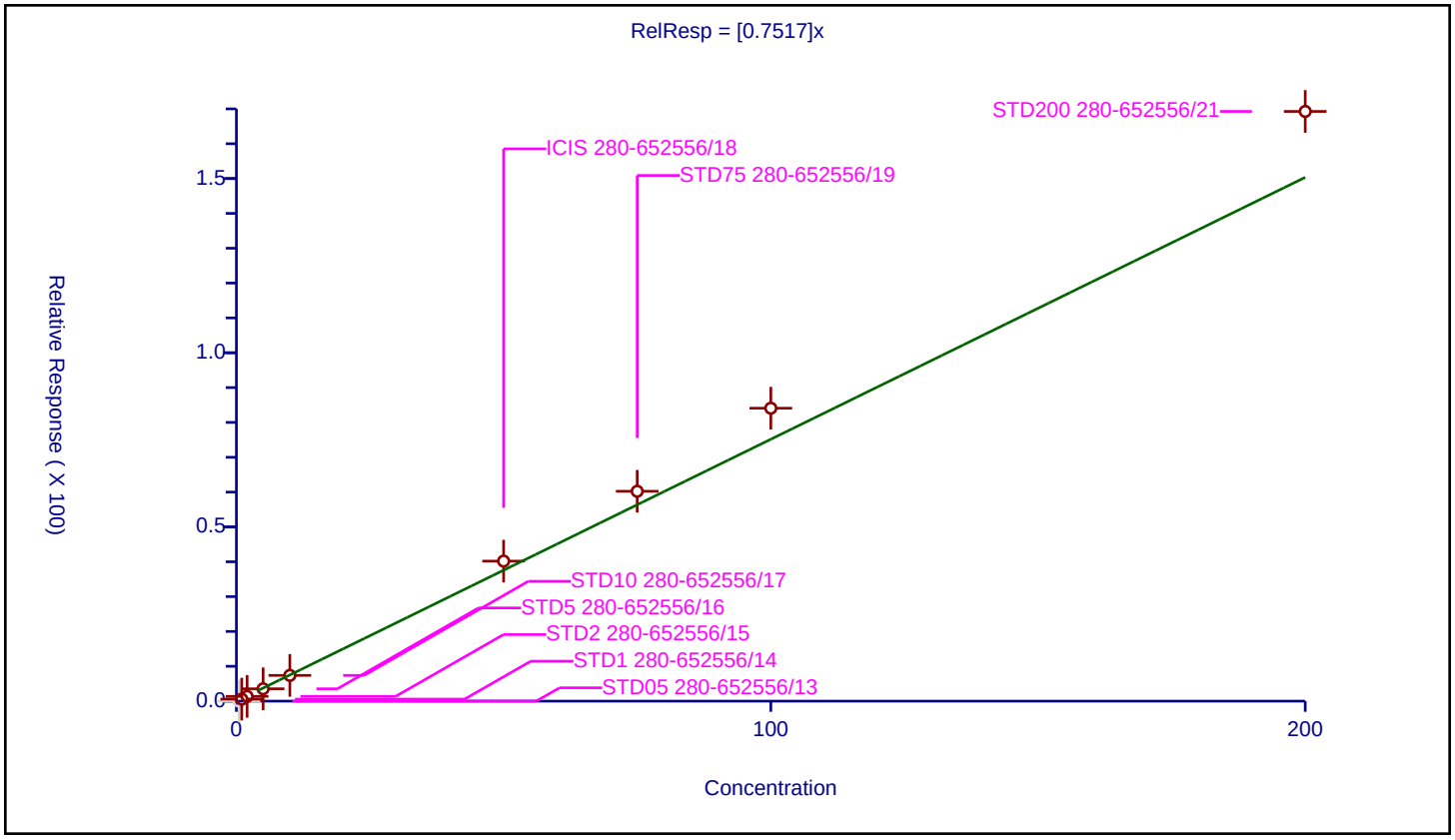
Curve Coefficients

Intercept:	0
Slope:	0.7517

Error Coefficients

Relative Standard Deviation:	11.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.0	50.0	305932.0	0.0	N
2	STD1 280-652556/14	1.0	0.586493	50.0	321402.0	0.586493	Y
3	STD2 280-652556/15	2.0	1.371284	50.0	330639.0	0.685642	Y
4	STD5 280-652556/16	5.0	3.543102	50.0	336132.0	0.70862	Y
5	STD10 280-652556/17	10.0	7.388038	50.0	336632.0	0.738804	Y
6	ICIS 280-652556/18	50.0	40.192858	50.0	347976.0	0.803857	Y
7	STD75 280-652556/19	75.0	60.240603	50.0	350287.0	0.803208	Y
8	STD100 280-652556/20	100.0	84.083615	50.0	351468.0	0.840836	Y
9	STD200 280-652556/21	200.0	169.266132	50.0	344340.0	0.846331	Y



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Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

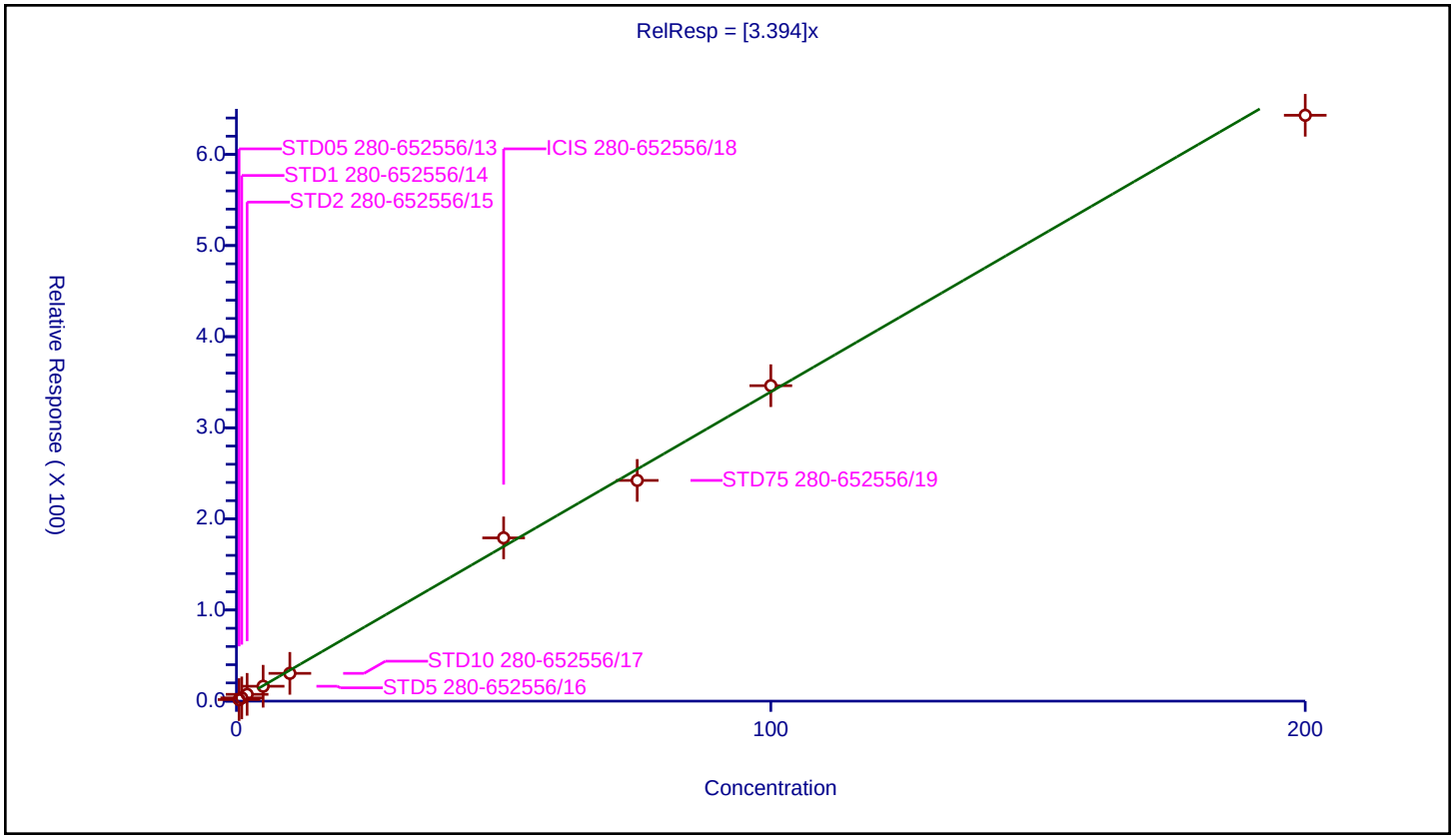
Curve Coefficients

Intercept:	0
Slope:	3.394

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	1.716007	50.0	452300.0	3.432014	Y
2	STD1 280-652556/14	1.0	3.574389	50.0	447573.0	3.574389	Y
3	STD2 280-652556/15	2.0	7.464584	50.0	464125.0	3.732292	Y
4	STD5 280-652556/16	5.0	16.352197	50.0	474661.0	3.270439	Y
5	STD10 280-652556/17	10.0	30.491728	50.0	478720.0	3.049173	Y
6	ICIS 280-652556/18	50.0	179.178408	50.0	525930.0	3.583568	Y
7	STD75 280-652556/19	75.0	242.247817	50.0	527503.0	3.229971	Y
8	STD100 280-652556/20	100.0	346.235834	50.0	545579.0	3.462358	Y
9	STD200 280-652556/21	200.0	642.992446	50.0	550192.0	3.214962	Y



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Calibration / Cyclohexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

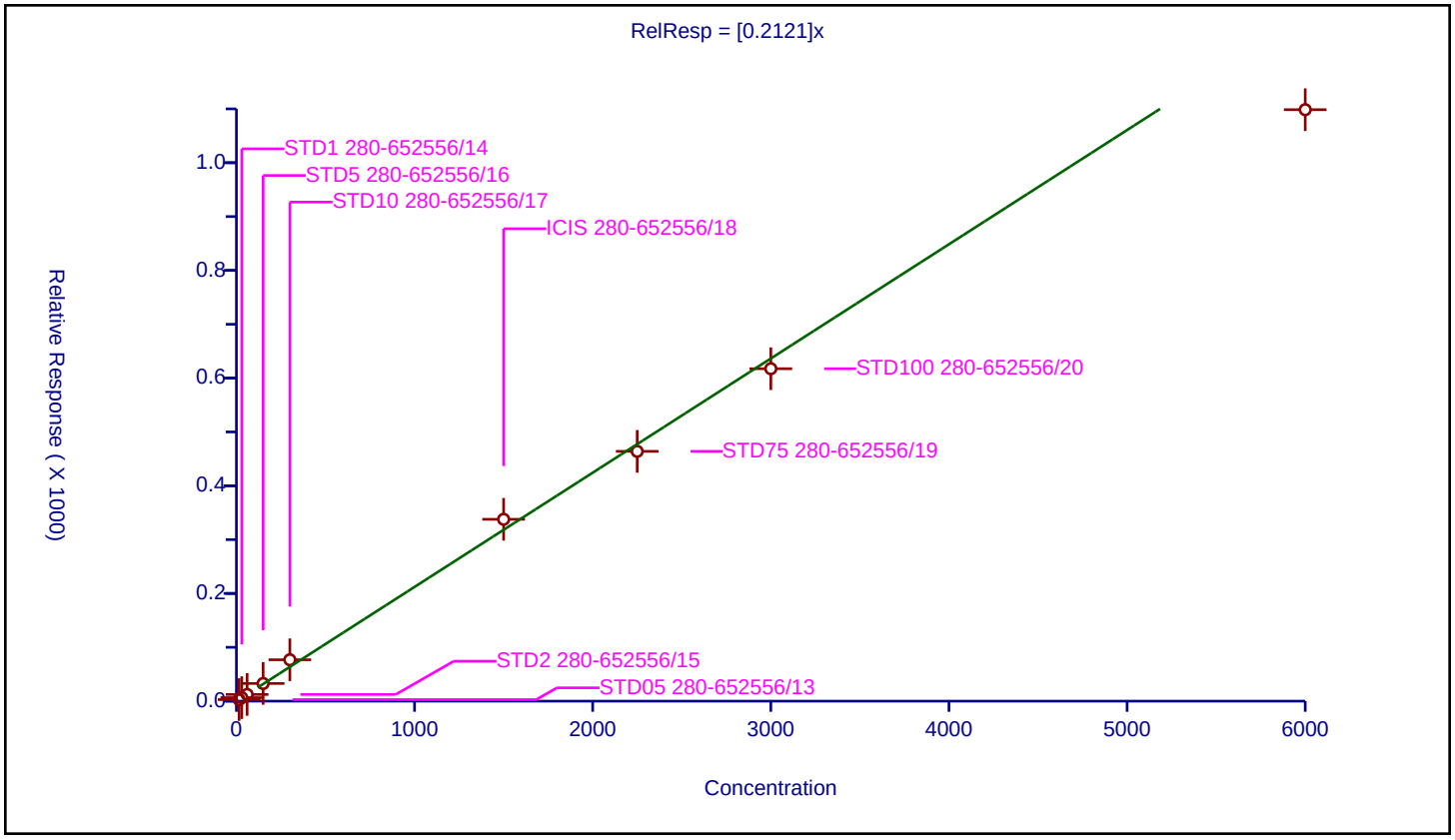
Curve Coefficients

Intercept:	0
Slope:	0.2121

Error Coefficients

Relative Standard Deviation:	9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	15.0	2.869102	50.0	305932.0	0.191273	Y
2	STD1 280-652556/14	30.0	6.495915	50.0	321402.0	0.21653	Y
3	STD2 280-652556/15	60.0	12.386319	50.0	330639.0	0.206439	Y
4	STD5 280-652556/16	150.0	32.797086	50.0	336132.0	0.218647	Y
5	STD10 280-652556/17	300.0	76.829149	50.0	336632.0	0.256097	Y
6	ICIS 280-652556/18	1500.0	337.724728	50.0	347976.0	0.22515	Y
7	STD75 280-652556/19	2250.0	463.924725	50.0	350287.0	0.206189	Y
8	STD100 280-652556/20	3000.0	617.433735	50.0	351468.0	0.205811	Y
9	STD200 280-652556/21	6000.0	1098.510048	50.0	344340.0	0.183085	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

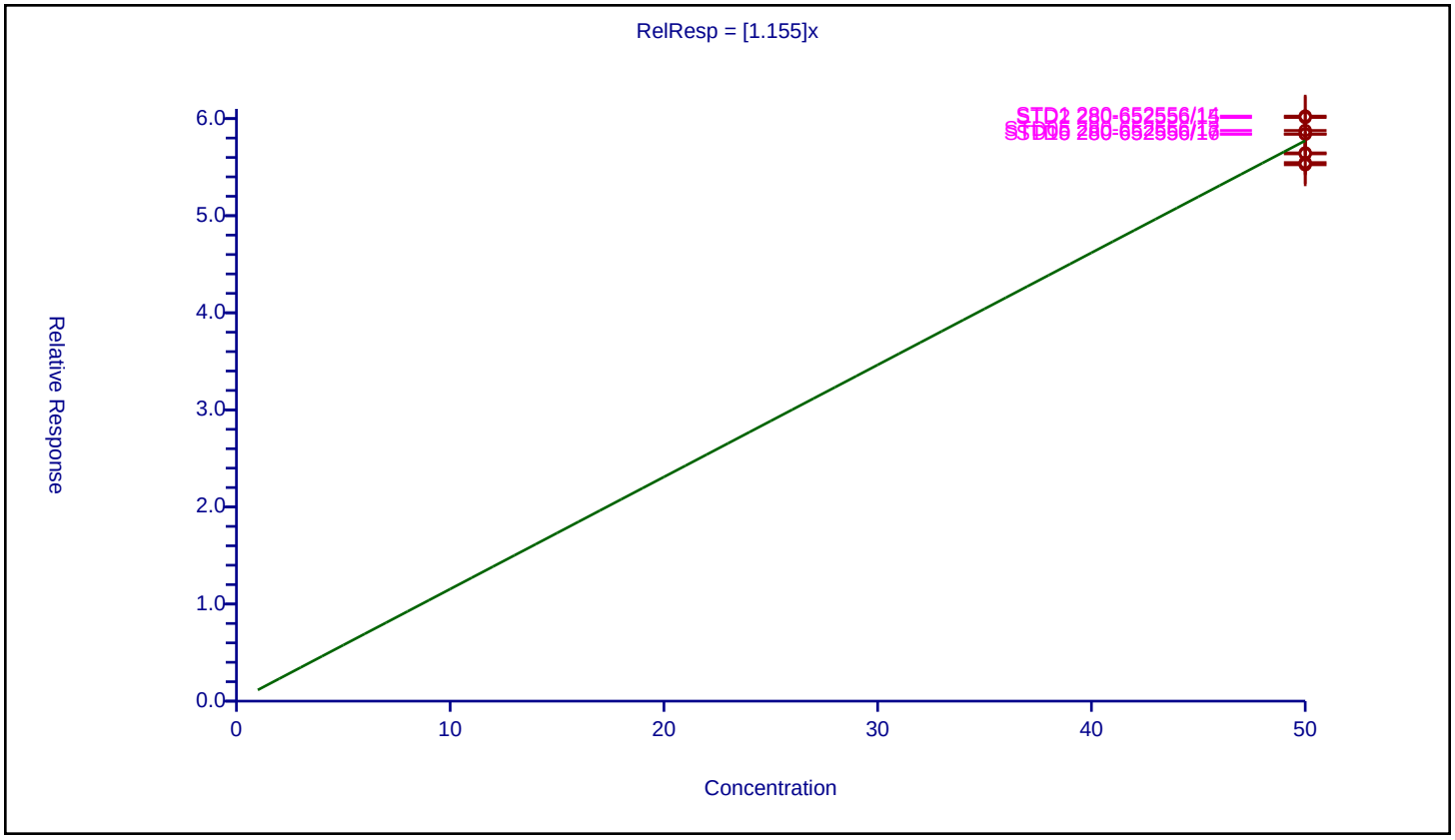
Curve Coefficients

Intercept:	0
Slope:	1.155

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	50.0	58.779682	50.0	452300.0	1.175594	Y
2	STD1 280-652556/14	50.0	60.262907	50.0	447573.0	1.205258	Y
3	STD2 280-652556/15	50.0	60.108591	50.0	464125.0	1.202172	Y
4	STD5 280-652556/16	50.0	58.381139	50.0	474661.0	1.167623	Y
5	STD10 280-652556/17	50.0	58.444289	50.0	478720.0	1.168886	Y
6	ICIS 280-652556/18	50.0	55.239671	50.0	525930.0	1.104793	Y
7	STD75 280-652556/19	50.0	56.362997	50.0	527503.0	1.12726	Y
8	STD100 280-652556/20	50.0	55.476017	50.0	545579.0	1.10952	Y
9	STD200 280-652556/21	50.0	56.473467	50.0	550192.0	1.129469	Y



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Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

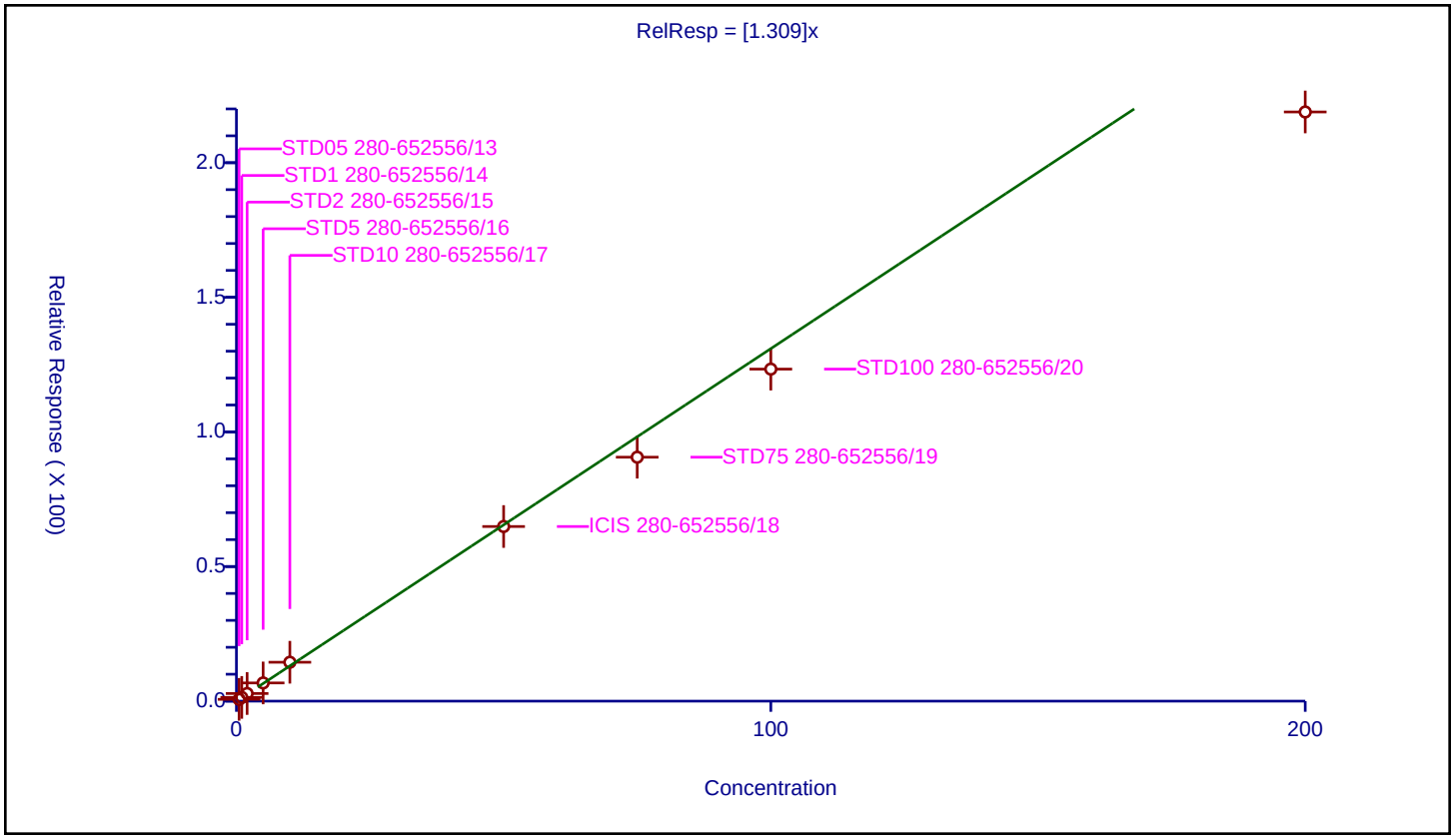
Curve Coefficients

Intercept:	0
Slope:	1.309

Error Coefficients

Relative Standard Deviation:	8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.672562	50.0	452300.0	1.345125	Y
2	STD1 280-652556/14	1.0	1.390835	50.0	447573.0	1.390835	Y
3	STD2 280-652556/15	2.0	2.834366	50.0	464125.0	1.417183	Y
4	STD5 280-652556/16	5.0	6.766724	50.0	474661.0	1.353345	Y
5	STD10 280-652556/17	10.0	14.450932	50.0	478720.0	1.445093	Y
6	ICIS 280-652556/18	50.0	64.86348	50.0	525930.0	1.29727	Y
7	STD75 280-652556/19	75.0	90.618252	50.0	527503.0	1.208243	Y
8	STD100 280-652556/20	100.0	123.33695	50.0	545579.0	1.23337	Y
9	STD200 280-652556/21	200.0	218.860143	50.0	550192.0	1.094301	Y



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Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

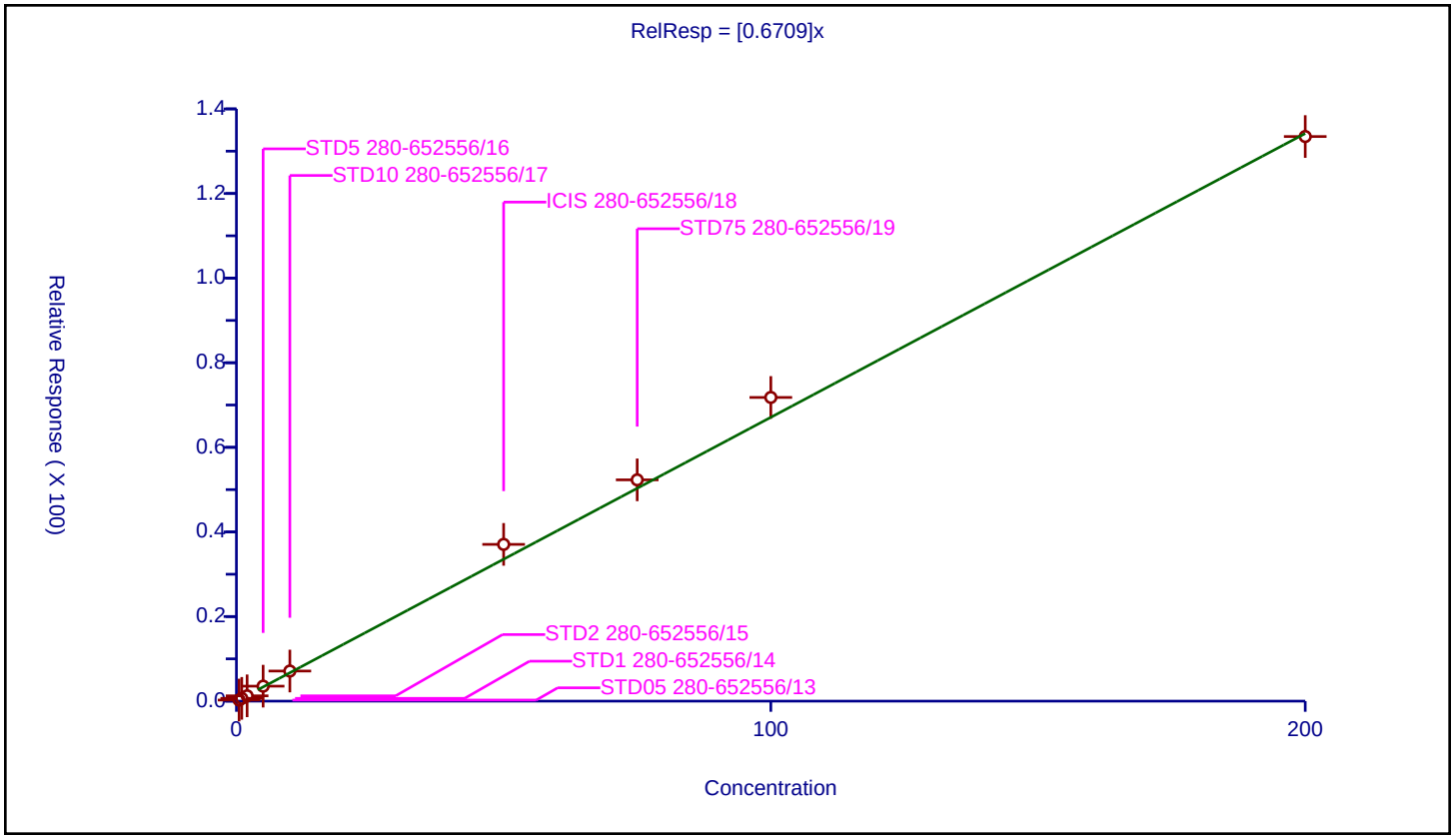
Curve Coefficients

Intercept:	0
Slope:	0.6709

Error Coefficients

Relative Standard Deviation:	10.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.253151	50.0	452300.0	0.506301	Y
2	STD1 280-652556/14	1.0	0.659892	50.0	447573.0	0.659892	Y
3	STD2 280-652556/15	2.0	1.256989	50.0	464125.0	0.628494	Y
4	STD5 280-652556/16	5.0	3.540843	50.0	474661.0	0.708169	Y
5	STD10 280-652556/17	10.0	7.116686	50.0	478720.0	0.711669	Y
6	ICIS 280-652556/18	50.0	37.054836	50.0	525930.0	0.741097	Y
7	STD75 280-652556/19	75.0	52.309086	50.0	527503.0	0.697454	Y
8	STD100 280-652556/20	100.0	71.79107	50.0	545579.0	0.717911	Y
9	STD200 280-652556/21	200.0	133.462319	50.0	550192.0	0.667312	Y



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Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

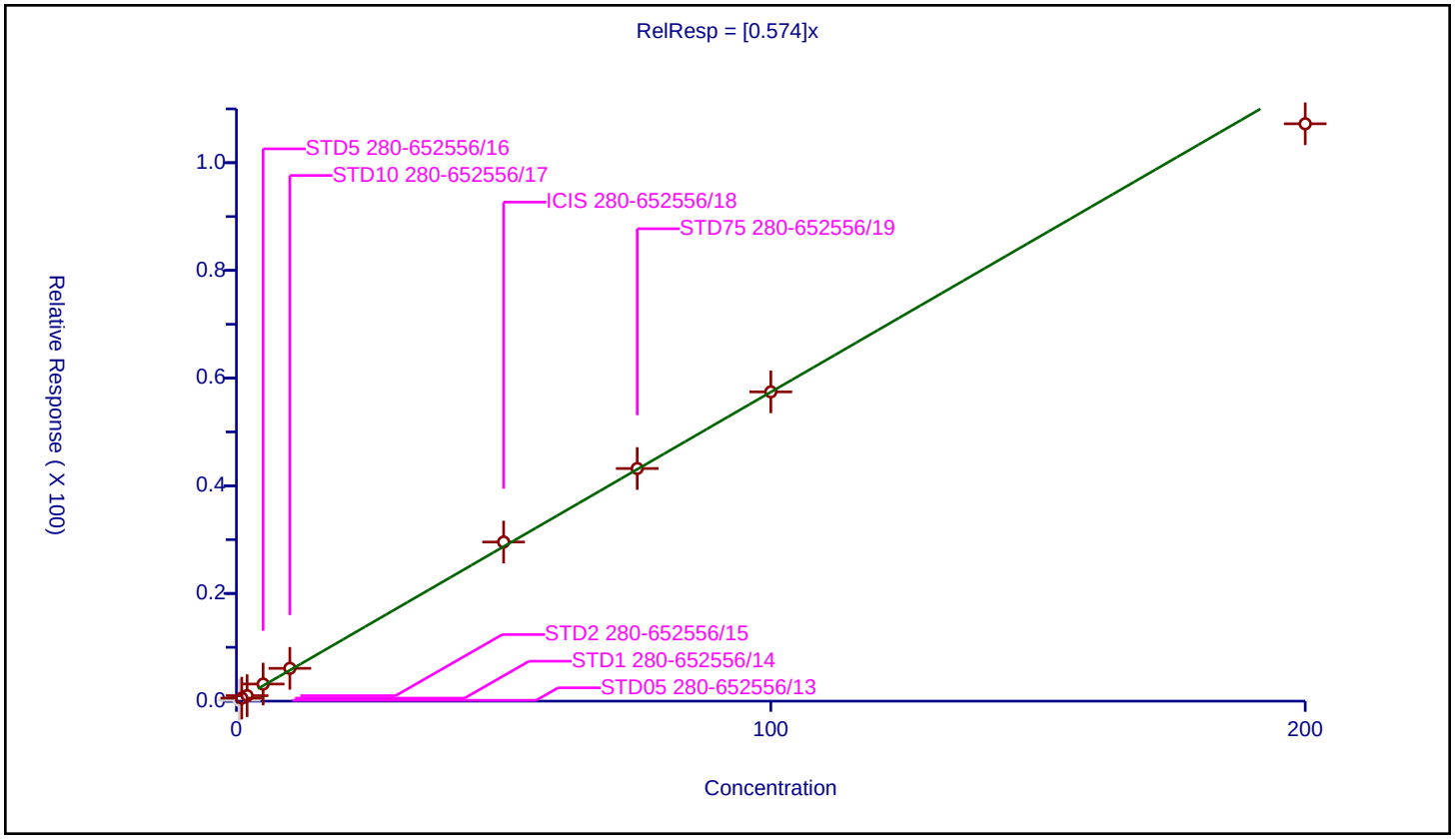
Curve Coefficients

Intercept:	0
Slope:	0.574

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.160292	50.0	452300.0	0.320584	N
2	STD1 280-652556/14	1.0	0.561584	50.0	447573.0	0.561584	Y
3	STD2 280-652556/15	2.0	1.015567	50.0	464125.0	0.507783	Y
4	STD5 280-652556/16	5.0	3.180059	50.0	474661.0	0.636012	Y
5	STD10 280-652556/17	10.0	6.09187	50.0	478720.0	0.609187	Y
6	ICIS 280-652556/18	50.0	29.55631	50.0	525930.0	0.591126	Y
7	STD75 280-652556/19	75.0	43.206105	50.0	527503.0	0.576081	Y
8	STD100 280-652556/20	100.0	57.444935	50.0	545579.0	0.574449	Y
9	STD200 280-652556/21	200.0	107.233384	50.0	550192.0	0.536167	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

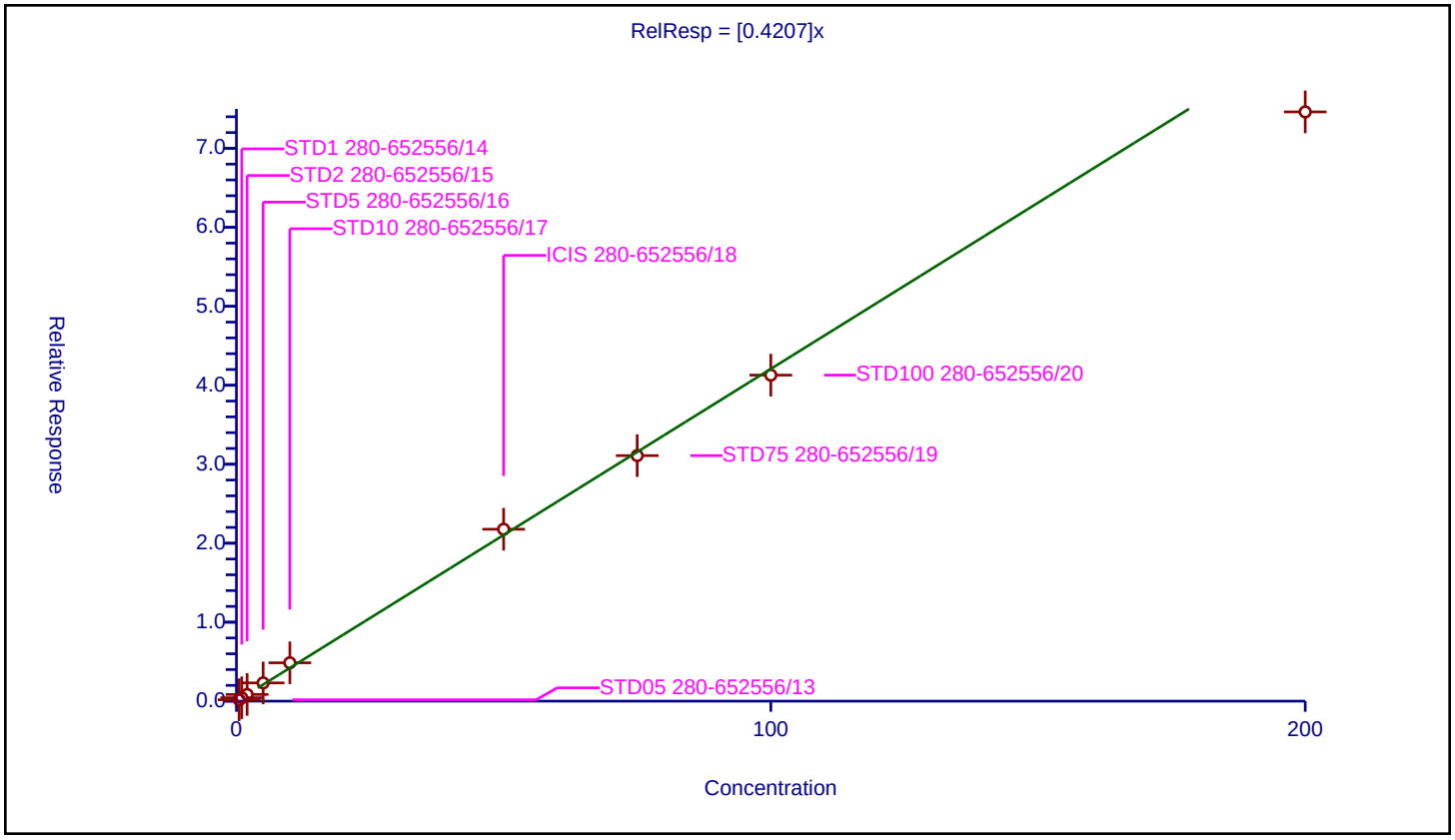
Curve Coefficients

Intercept:	0
Slope:	0.4207

Error Coefficients

Relative Standard Deviation:	9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.174442	50.0	452300.0	0.348883	Y
2	STD1 280-652556/14	1.0	0.431773	50.0	447573.0	0.431773	Y
3	STD2 280-652556/15	2.0	0.845354	50.0	464125.0	0.422677	Y
4	STD5 280-652556/16	5.0	2.308595	50.0	474661.0	0.461719	Y
5	STD10 280-652556/17	10.0	4.856179	50.0	478720.0	0.485618	Y
6	ICIS 280-652556/18	50.0	21.768962	50.0	525930.0	0.435379	Y
7	STD75 280-652556/19	75.0	31.092809	50.0	527503.0	0.414571	Y
8	STD100 280-652556/20	100.0	41.285955	50.0	545579.0	0.41286	Y
9	STD200 280-652556/21	200.0	74.617225	50.0	550192.0	0.373086	Y



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Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

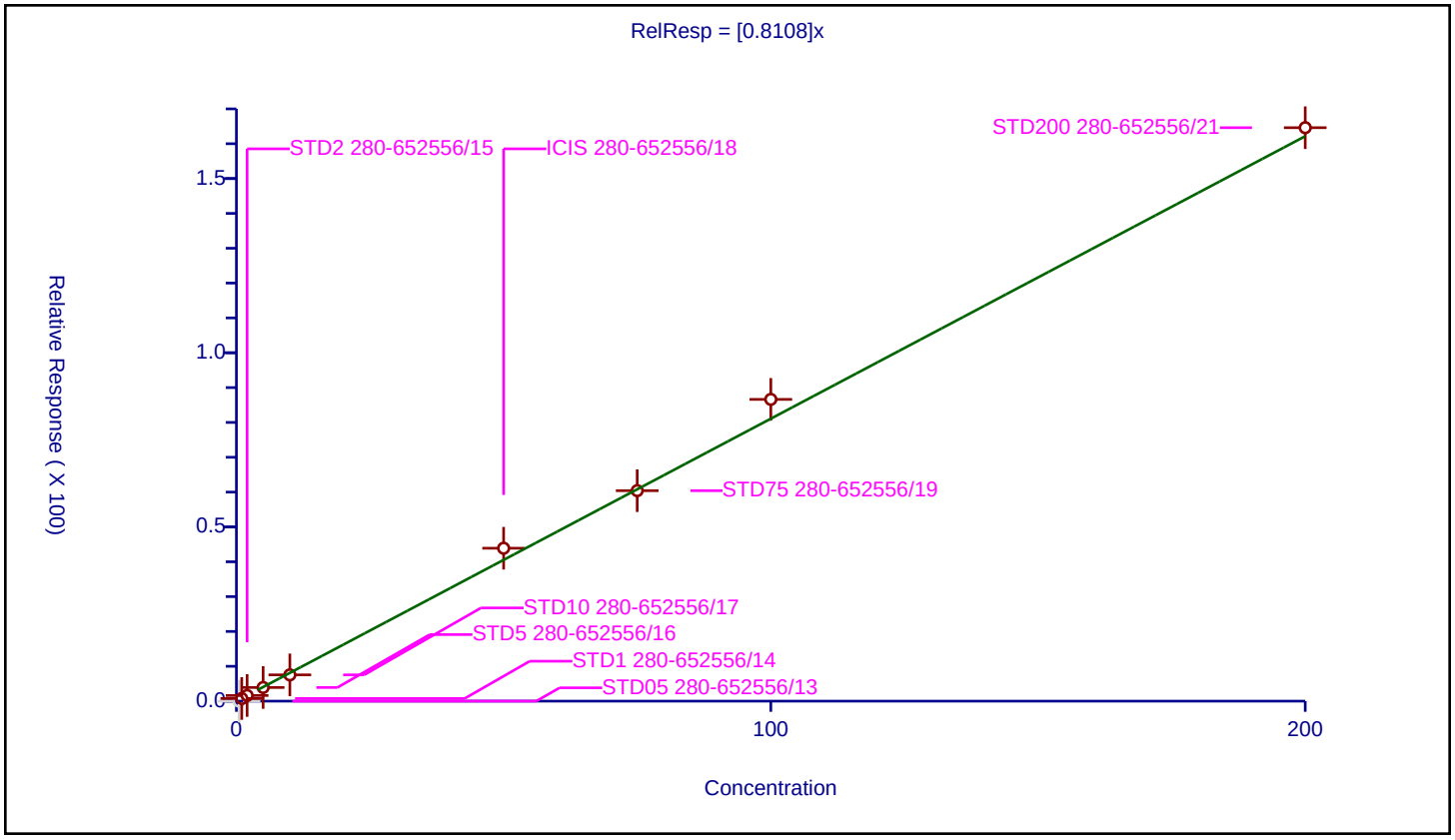
Curve Coefficients

Intercept:	0
Slope:	0.8108

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.0	50.0	452300.0	0.0	N
2	STD1 280-652556/14	1.0	0.761999	50.0	447573.0	0.761999	Y
3	STD2 280-652556/15	2.0	1.627256	50.0	464125.0	0.813628	Y
4	STD5 280-652556/16	5.0	3.920061	50.0	474661.0	0.784012	Y
5	STD10 280-652556/17	10.0	7.538645	50.0	478720.0	0.753864	Y
6	ICIS 280-652556/18	50.0	43.892438	50.0	525930.0	0.877849	Y
7	STD75 280-652556/19	75.0	60.412263	50.0	527503.0	0.805497	Y
8	STD100 280-652556/20	100.0	86.616787	50.0	545579.0	0.866168	Y
9	STD200 280-652556/21	200.0	164.60063	50.0	550192.0	0.823003	Y



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Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

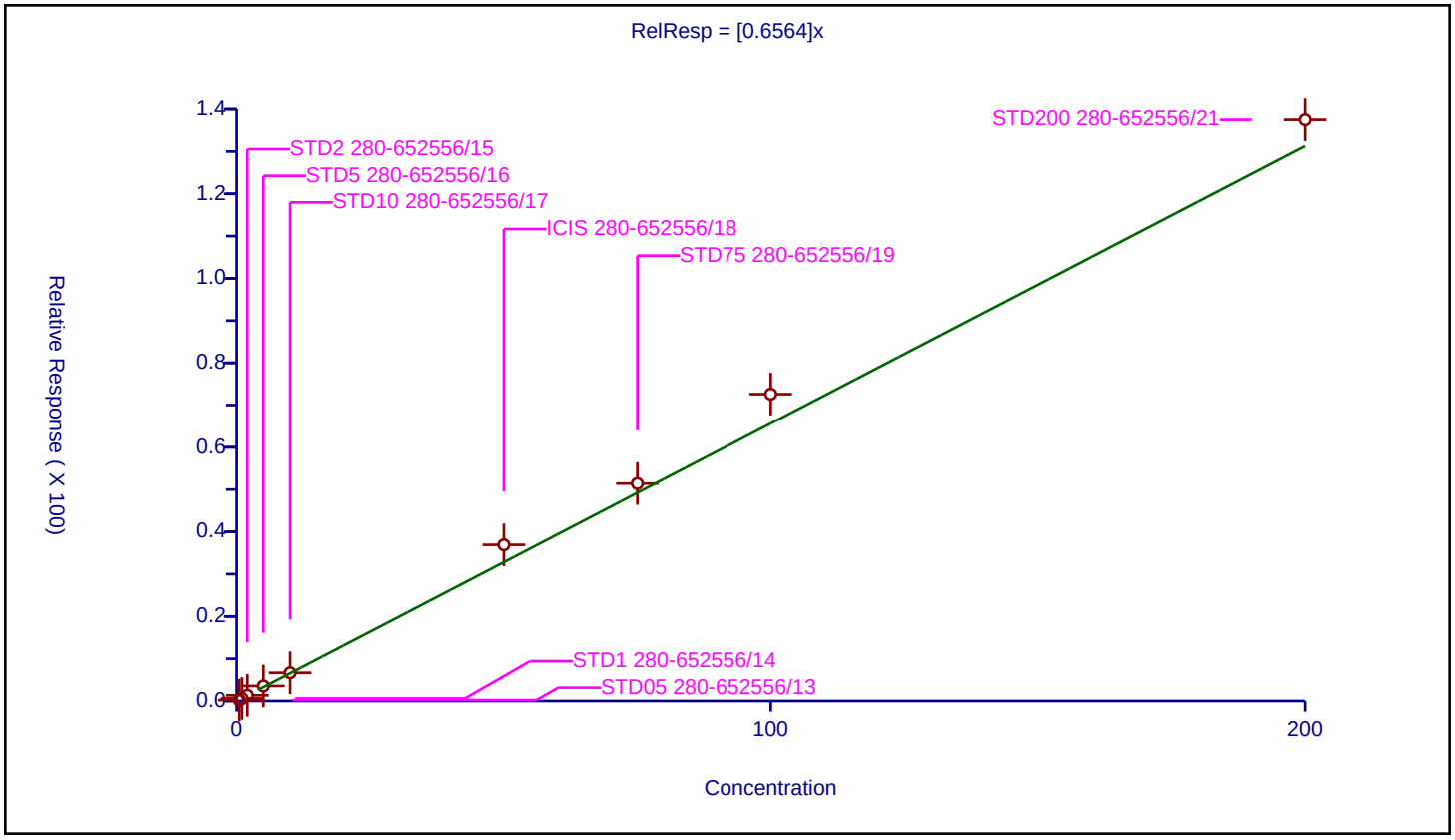
Curve Coefficients

Intercept:	0
Slope:	0.6564

Error Coefficients

Relative Standard Deviation:	14.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.209043	50.0	452300.0	0.418085	Y
2	STD1 280-652556/14	1.0	0.604259	50.0	447573.0	0.604259	Y
3	STD2 280-652556/15	2.0	1.340803	50.0	464125.0	0.670401	Y
4	STD5 280-652556/16	5.0	3.549902	50.0	474661.0	0.70998	Y
5	STD10 280-652556/17	10.0	6.676345	50.0	478720.0	0.667635	Y
6	ICIS 280-652556/18	50.0	36.924971	50.0	525930.0	0.738499	Y
7	STD75 280-652556/19	75.0	51.42293	50.0	527503.0	0.685639	Y
8	STD100 280-652556/20	100.0	72.588663	50.0	545579.0	0.725887	Y
9	STD200 280-652556/21	200.0	137.498546	50.0	550192.0	0.687493	Y



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Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

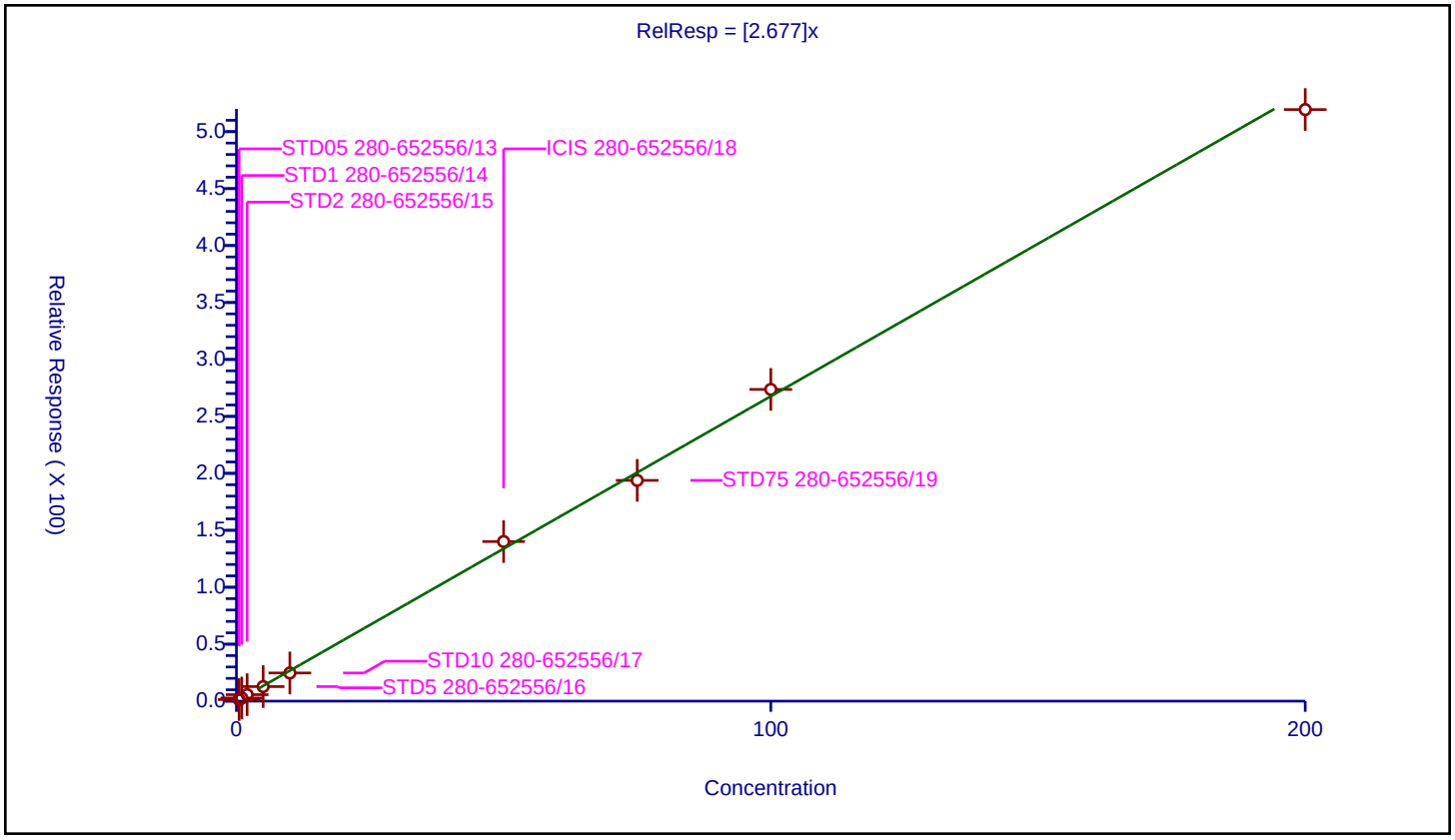
Curve Coefficients

Intercept:	0
Slope:	2.677

Error Coefficients

Relative Standard Deviation:	4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	1.377515	50.0	452300.0	2.75503	Y
2	STD1 280-652556/14	1.0	2.74324	50.0	447573.0	2.74324	Y
3	STD2 280-652556/15	2.0	5.690924	50.0	464125.0	2.845462	Y
4	STD5 280-652556/16	5.0	12.7807	50.0	474661.0	2.55614	Y
5	STD10 280-652556/17	10.0	24.722489	50.0	478720.0	2.472249	Y
6	ICIS 280-652556/18	50.0	140.141939	50.0	525930.0	2.802839	Y
7	STD75 280-652556/19	75.0	193.818234	50.0	527503.0	2.584243	Y
8	STD100 280-652556/20	100.0	273.712881	50.0	545579.0	2.737129	Y
9	STD200 280-652556/21	200.0	519.42331	50.0	550192.0	2.597117	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

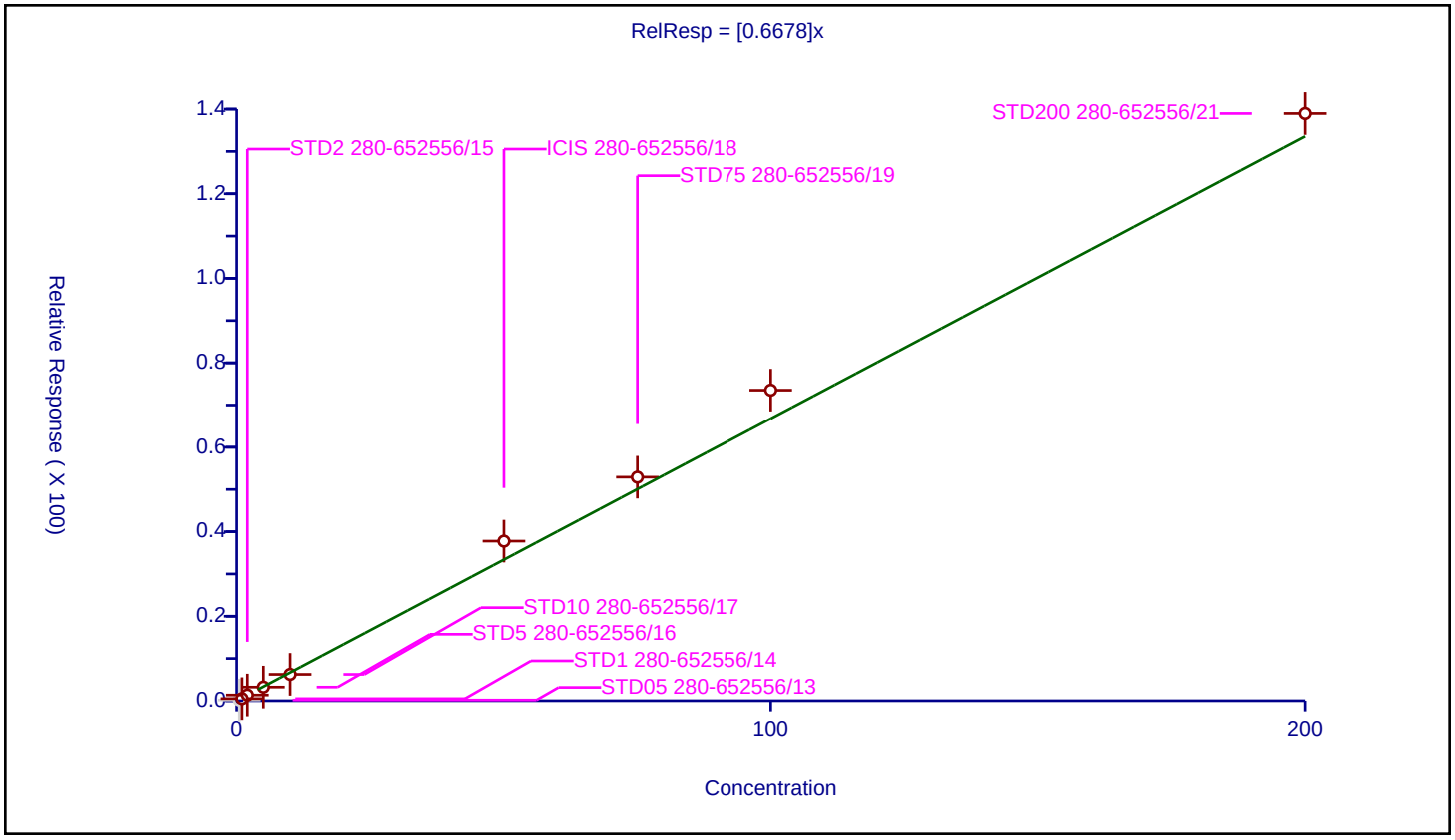
Curve Coefficients

Intercept:	0
Slope:	0.6678

Error Coefficients

Relative Standard Deviation:	11.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.171457	50.0	452300.0	0.342914	N
2	STD1 280-652556/14	1.0	0.501371	50.0	447573.0	0.501371	Y
3	STD2 280-652556/15	2.0	1.357716	50.0	464125.0	0.678858	Y
4	STD5 280-652556/16	5.0	3.234624	50.0	474661.0	0.646925	Y
5	STD10 280-652556/17	10.0	6.244151	50.0	478720.0	0.624415	Y
6	ICIS 280-652556/18	50.0	37.770901	50.0	525930.0	0.755418	Y
7	STD75 280-652556/19	75.0	52.915434	50.0	527503.0	0.705539	Y
8	STD100 280-652556/20	100.0	73.525007	50.0	545579.0	0.73525	Y
9	STD200 280-652556/21	200.0	138.961762	50.0	550192.0	0.694809	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

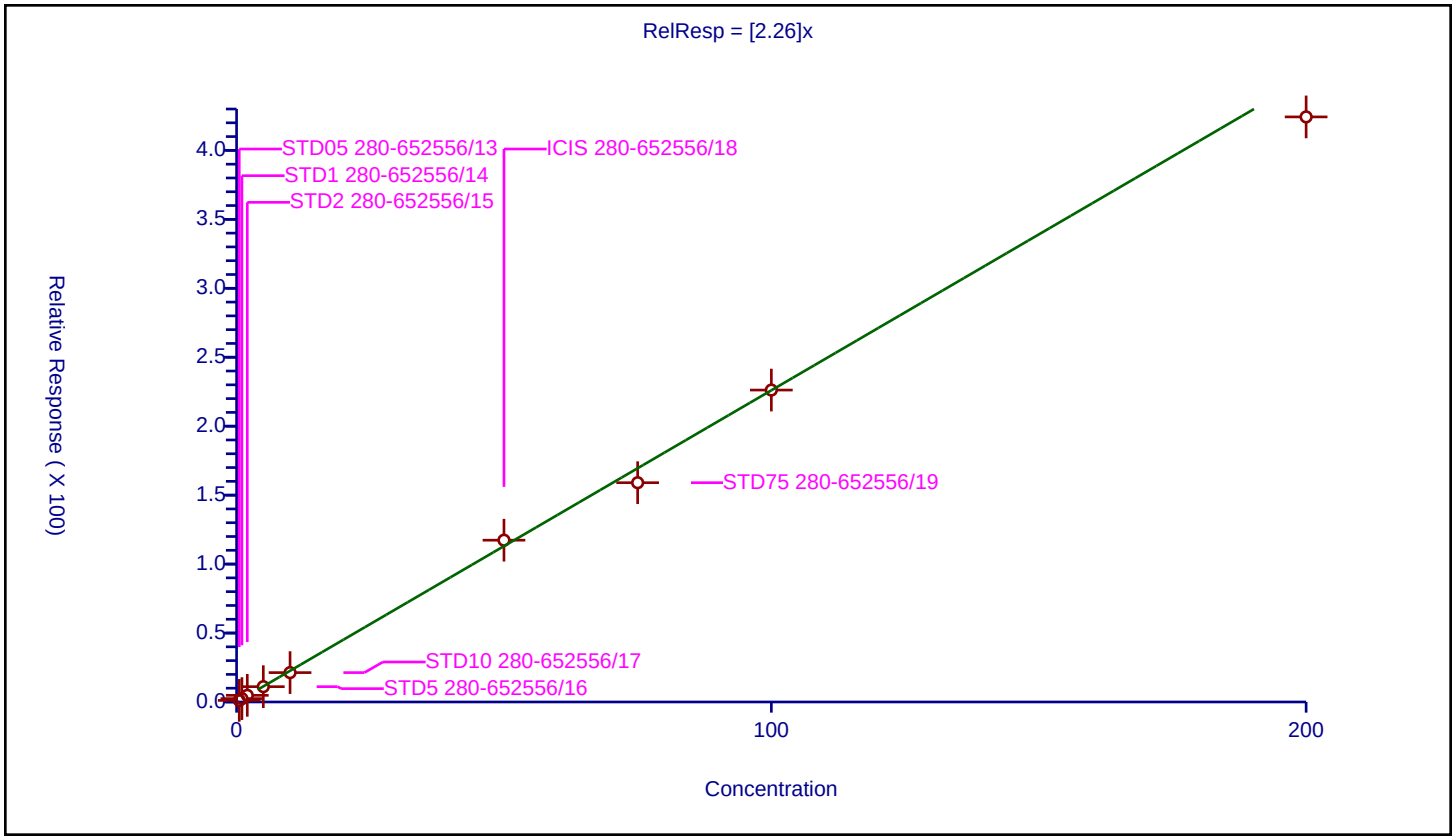
Curve Coefficients

Intercept:	0
Slope:	2.26

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	1.146363	50.0	452300.0	2.292726	Y
2	STD1 280-652556/14	1.0	2.437703	50.0	447573.0	2.437703	Y
3	STD2 280-652556/15	2.0	4.82133	50.0	464125.0	2.410665	Y
4	STD5 280-652556/16	5.0	11.099817	50.0	474661.0	2.219963	Y
5	STD10 280-652556/17	10.0	21.297627	50.0	478720.0	2.129763	Y
6	ICIS 280-652556/18	50.0	117.334721	50.0	525930.0	2.346694	Y
7	STD75 280-652556/19	75.0	159.014072	50.0	527503.0	2.120188	Y
8	STD100 280-652556/20	100.0	226.198956	50.0	545579.0	2.26199	Y
9	STD200 280-652556/21	200.0	424.284613	50.0	550192.0	2.121423	Y



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Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

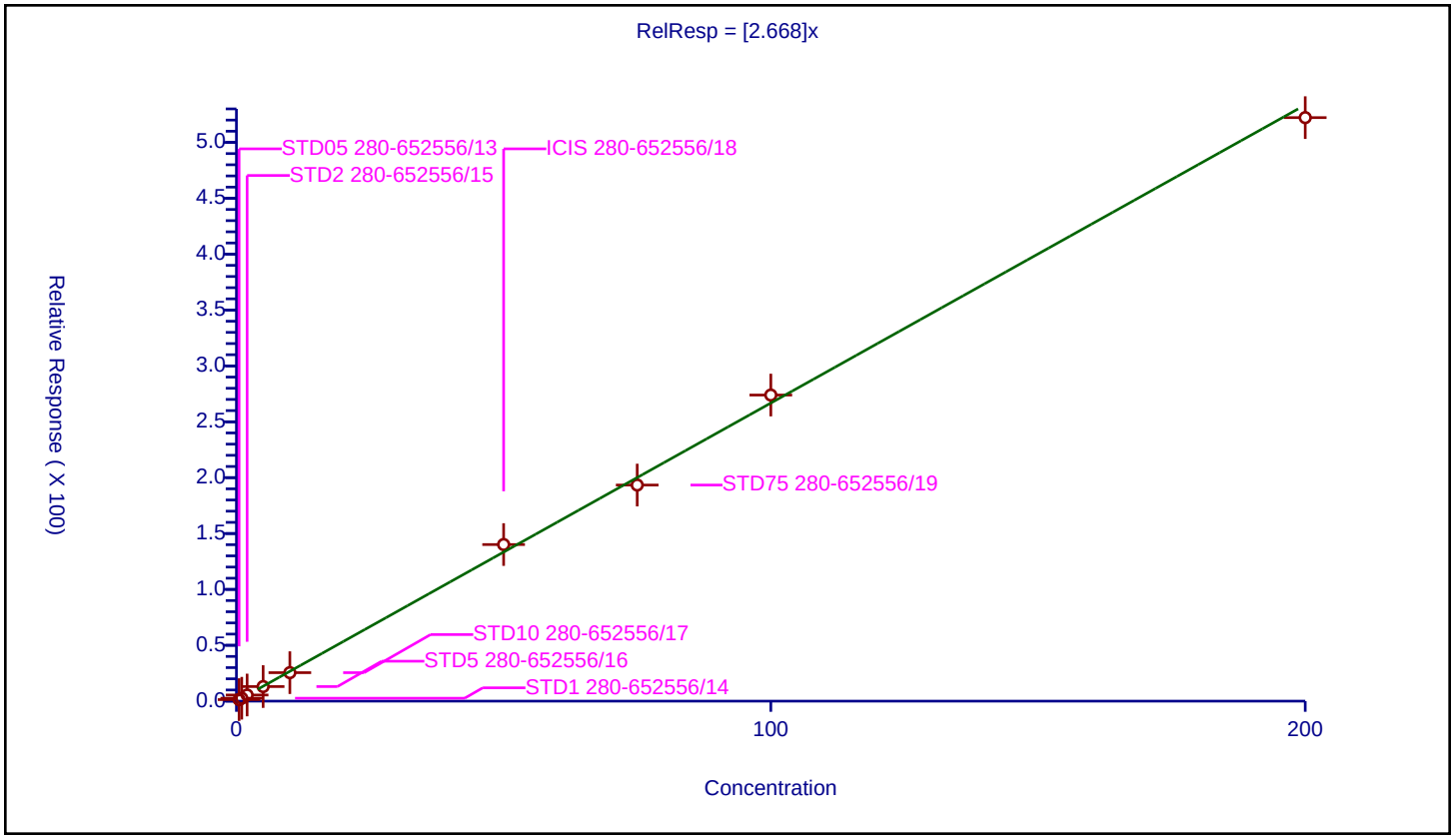
Curve Coefficients

Intercept:	0
Slope:	2.668

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	1.374751	50.0	452300.0	2.749503	Y
2	STD1 280-652556/14	1.0	2.616668	50.0	447573.0	2.616668	Y
3	STD2 280-652556/15	2.0	5.505306	50.0	464125.0	2.752653	Y
4	STD5 280-652556/16	5.0	13.045205	50.0	474661.0	2.609041	Y
5	STD10 280-652556/17	10.0	25.502695	50.0	478720.0	2.550269	Y
6	ICIS 280-652556/18	50.0	140.138517	50.0	525930.0	2.80277	Y
7	STD75 280-652556/19	75.0	193.387241	50.0	527503.0	2.578497	Y
8	STD100 280-652556/20	100.0	273.919451	50.0	545579.0	2.739195	Y
9	STD200 280-652556/21	200.0	522.170624	50.0	550192.0	2.610853	Y



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Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

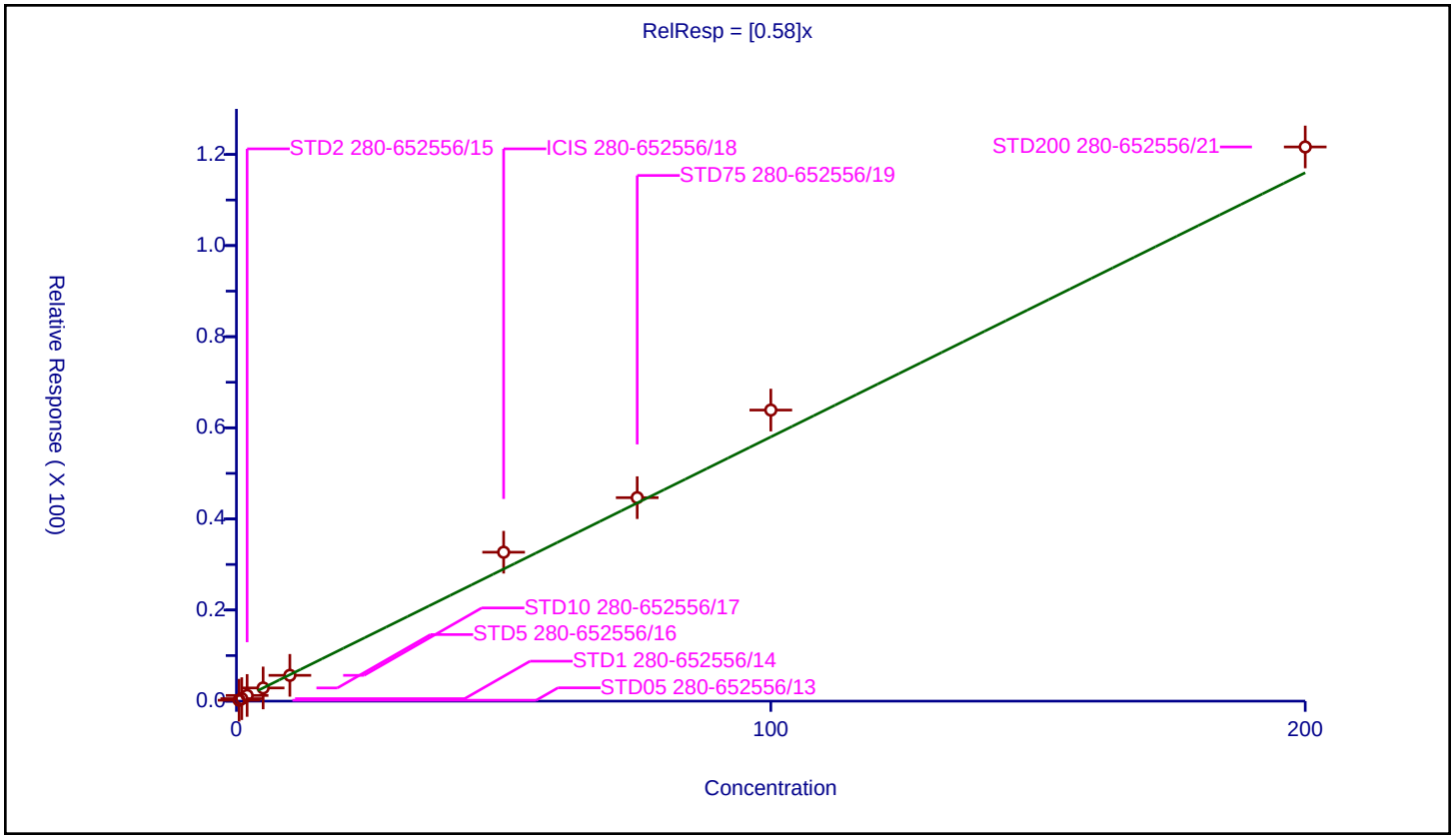
Curve Coefficients

Intercept:	0
Slope:	0.58

Error Coefficients

Relative Standard Deviation:	12.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.20241	50.0	452300.0	0.40482	Y
2	STD1 280-652556/14	1.0	0.546615	50.0	447573.0	0.546615	Y
3	STD2 280-652556/15	2.0	1.250956	50.0	464125.0	0.625478	Y
4	STD5 280-652556/16	5.0	2.899016	50.0	474661.0	0.579803	Y
5	STD10 280-652556/17	10.0	5.664063	50.0	478720.0	0.566406	Y
6	ICIS 280-652556/18	50.0	32.689902	50.0	525930.0	0.653798	Y
7	STD75 280-652556/19	75.0	44.663822	50.0	527503.0	0.595518	Y
8	STD100 280-652556/20	100.0	63.892855	50.0	545579.0	0.638929	Y
9	STD200 280-652556/21	200.0	121.644626	50.0	550192.0	0.608223	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

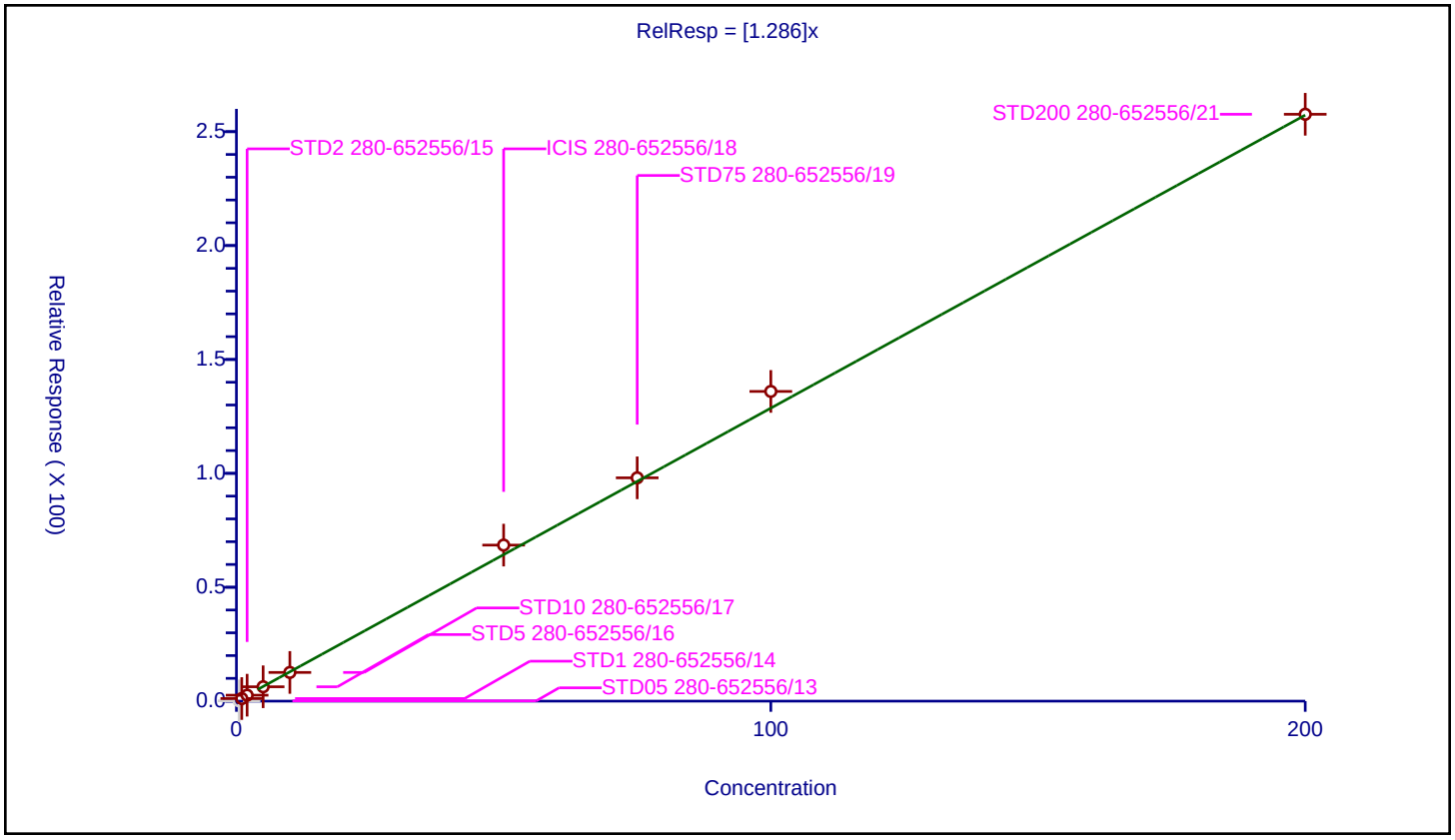
Curve Coefficients

Intercept:	0
Slope:	1.286

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.126465	50.0	452300.0	0.252929	N
2	STD1 280-652556/14	1.0	1.140037	50.0	447573.0	1.140037	Y
3	STD2 280-652556/15	2.0	2.608672	50.0	464125.0	1.304336	Y
4	STD5 280-652556/16	5.0	6.307344	50.0	474661.0	1.261469	Y
5	STD10 280-652556/17	10.0	12.600163	50.0	478720.0	1.260016	Y
6	ICIS 280-652556/18	50.0	68.501131	50.0	525930.0	1.370023	Y
7	STD75 280-652556/19	75.0	98.039727	50.0	527503.0	1.307196	Y
8	STD100 280-652556/20	100.0	135.965644	50.0	545579.0	1.359656	Y
9	STD200 280-652556/21	200.0	257.642514	50.0	550192.0	1.288213	Y



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Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

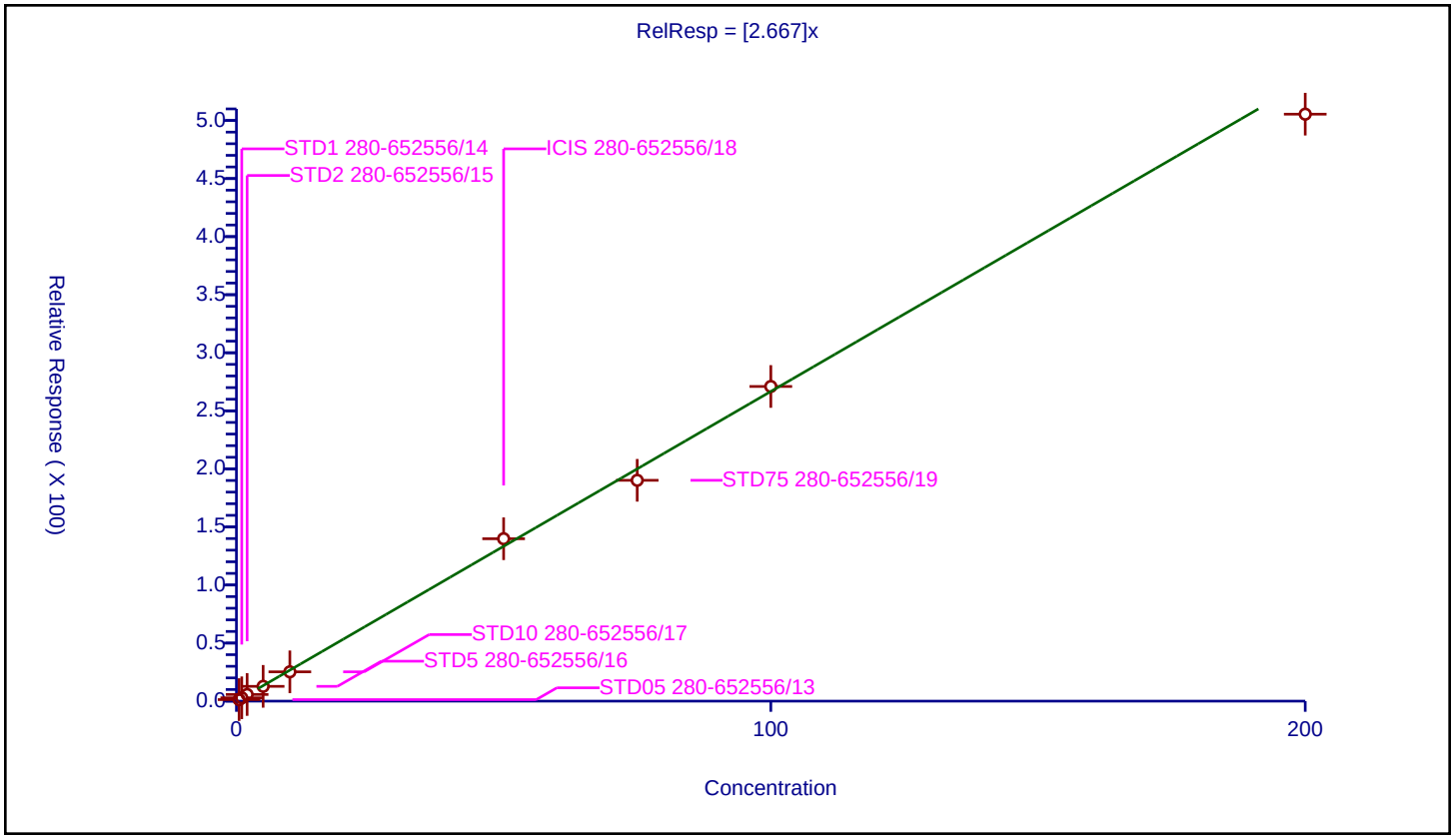
Curve Coefficients

Intercept:	0
Slope:	2.667

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	1.314393	50.0	452300.0	2.628786	Y
2	STD1 280-652556/14	1.0	2.872716	50.0	447573.0	2.872716	Y
3	STD2 280-652556/15	2.0	5.717533	50.0	464125.0	2.858766	Y
4	STD5 280-652556/16	5.0	12.738354	50.0	474661.0	2.547671	Y
5	STD10 280-652556/17	10.0	25.236882	50.0	478720.0	2.523688	Y
6	ICIS 280-652556/18	50.0	139.856255	50.0	525930.0	2.797125	Y
7	STD75 280-652556/19	75.0	190.161004	50.0	527503.0	2.53548	Y
8	STD100 280-652556/20	100.0	270.966258	50.0	545579.0	2.709663	Y
9	STD200 280-652556/21	200.0	505.460185	50.0	550192.0	2.527301	Y



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Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

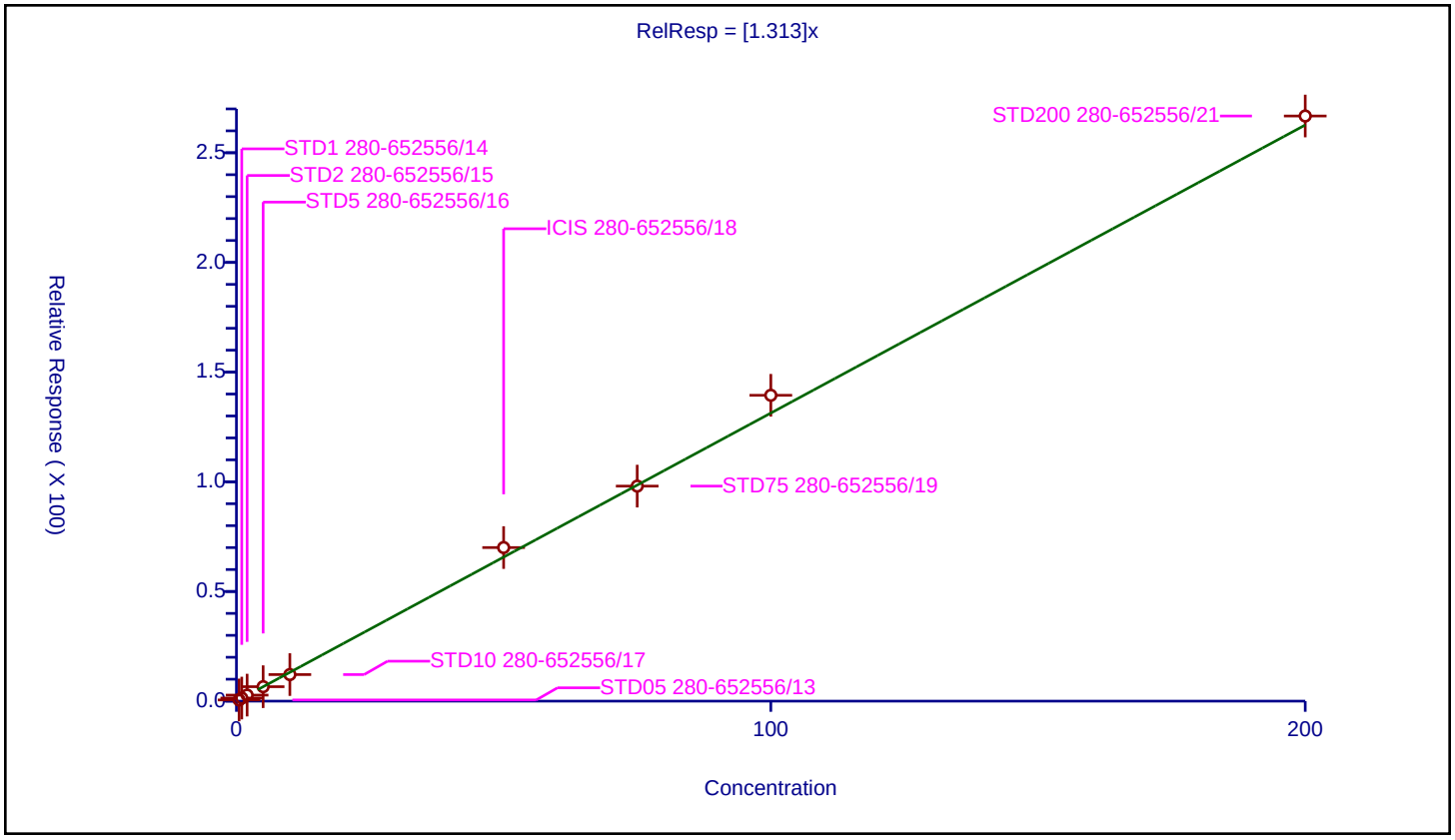
Curve Coefficients

Intercept:	0
Slope:	1.313

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.537475	50.0	452300.0	1.07495	Y
2	STD1 280-652556/14	1.0	1.403011	50.0	447573.0	1.403011	Y
3	STD2 280-652556/15	2.0	2.755077	50.0	464125.0	1.377538	Y
4	STD5 280-652556/16	5.0	6.584805	50.0	474661.0	1.316961	Y
5	STD10 280-652556/17	10.0	12.113866	50.0	478720.0	1.211387	Y
6	ICIS 280-652556/18	50.0	70.015877	50.0	525930.0	1.400318	Y
7	STD75 280-652556/19	75.0	98.029206	50.0	527503.0	1.307056	Y
8	STD100 280-652556/20	100.0	139.430403	50.0	545579.0	1.394304	Y
9	STD200 280-652556/21	200.0	266.758241	50.0	550192.0	1.333791	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

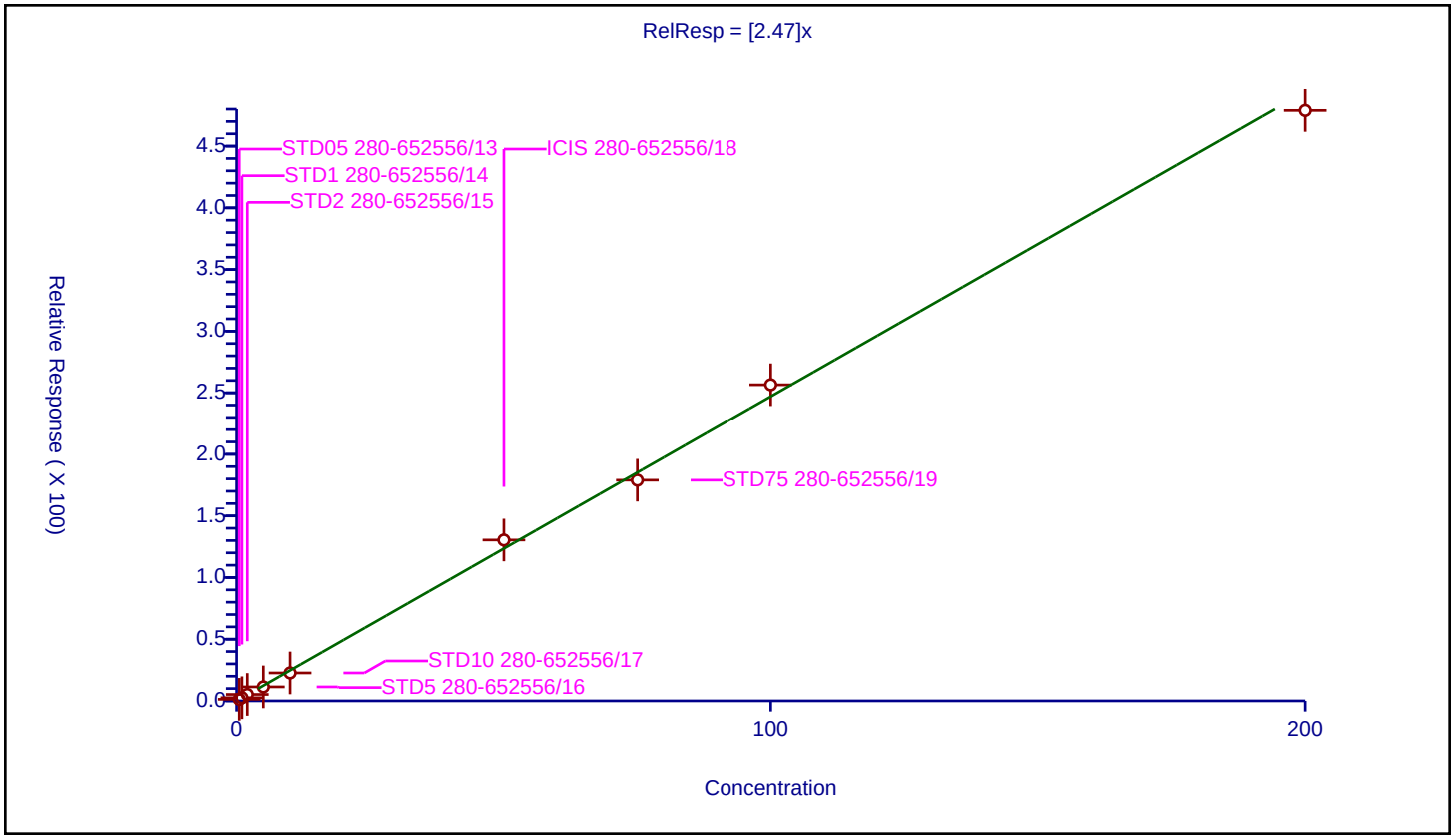
Curve Coefficients

Intercept:	0
Slope:	2.47

Error Coefficients

Relative Standard Deviation:	5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	1.292616	50.0	452300.0	2.585231	Y
2	STD1 280-652556/14	1.0	2.547853	50.0	447573.0	2.547853	Y
3	STD2 280-652556/15	2.0	5.215298	50.0	464125.0	2.607649	Y
4	STD5 280-652556/16	5.0	11.336828	50.0	474661.0	2.267366	Y
5	STD10 280-652556/17	10.0	22.65907	50.0	478720.0	2.265907	Y
6	ICIS 280-652556/18	50.0	130.452722	50.0	525930.0	2.609054	Y
7	STD75 280-652556/19	75.0	179.003153	50.0	527503.0	2.386709	Y
8	STD100 280-652556/20	100.0	256.518488	50.0	545579.0	2.565185	Y
9	STD200 280-652556/21	200.0	478.933536	50.0	550192.0	2.394668	Y



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Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

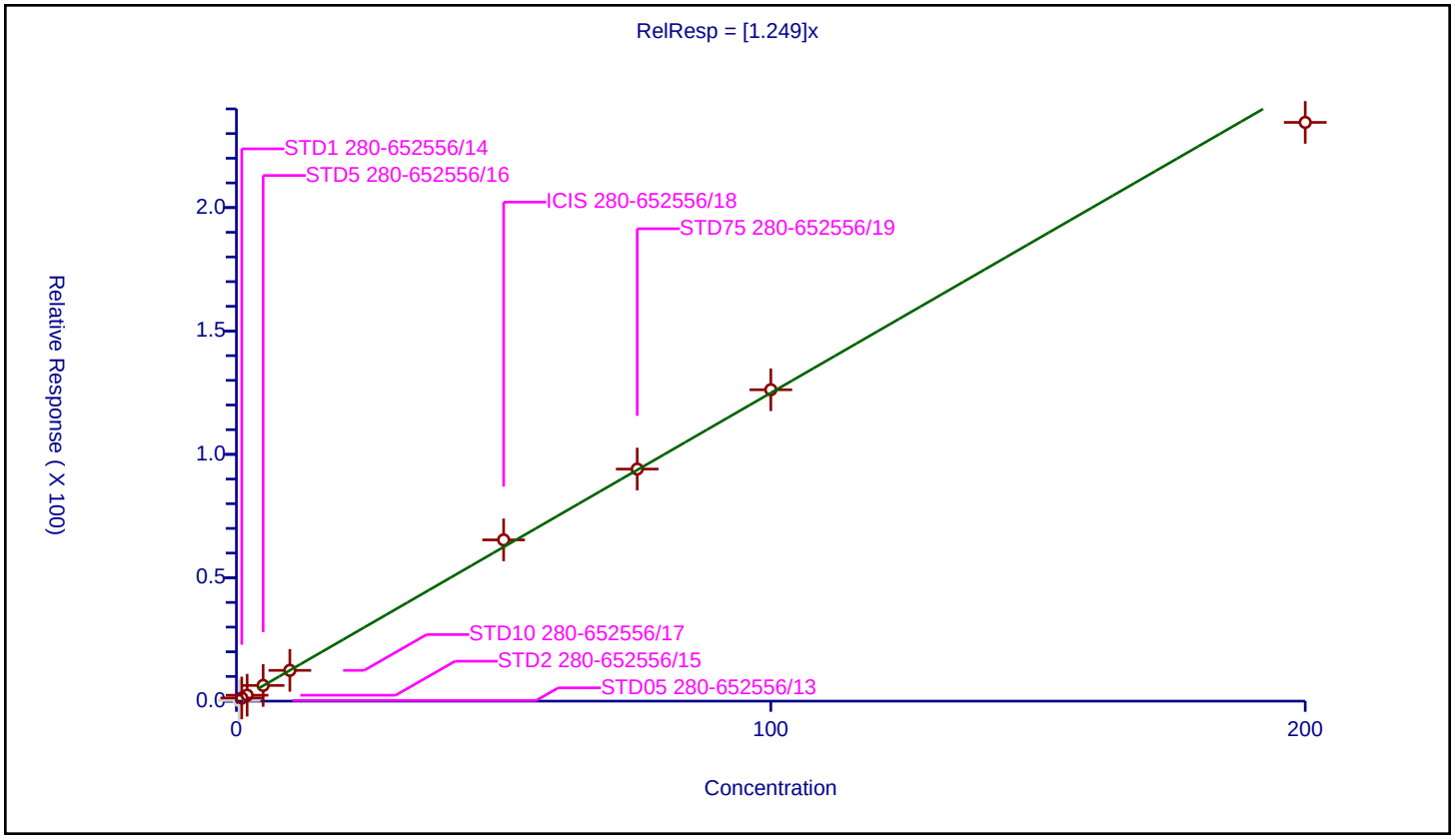
Curve Coefficients

Intercept:	0
Slope:	1.249

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.282114	50.0	452300.0	0.564227	N
2	STD1 280-652556/14	1.0	1.279233	50.0	447573.0	1.279233	Y
3	STD2 280-652556/15	2.0	2.397091	50.0	464125.0	1.198546	Y
4	STD5 280-652556/16	5.0	6.360539	50.0	474661.0	1.272108	Y
5	STD10 280-652556/17	10.0	12.475351	50.0	478720.0	1.247535	Y
6	ICIS 280-652556/18	50.0	65.343202	50.0	525930.0	1.306864	Y
7	STD75 280-652556/19	75.0	94.042024	50.0	527503.0	1.253894	Y
8	STD100 280-652556/20	100.0	126.190616	50.0	545579.0	1.261906	Y
9	STD200 280-652556/21	200.0	234.529673	50.0	550192.0	1.172648	Y



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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

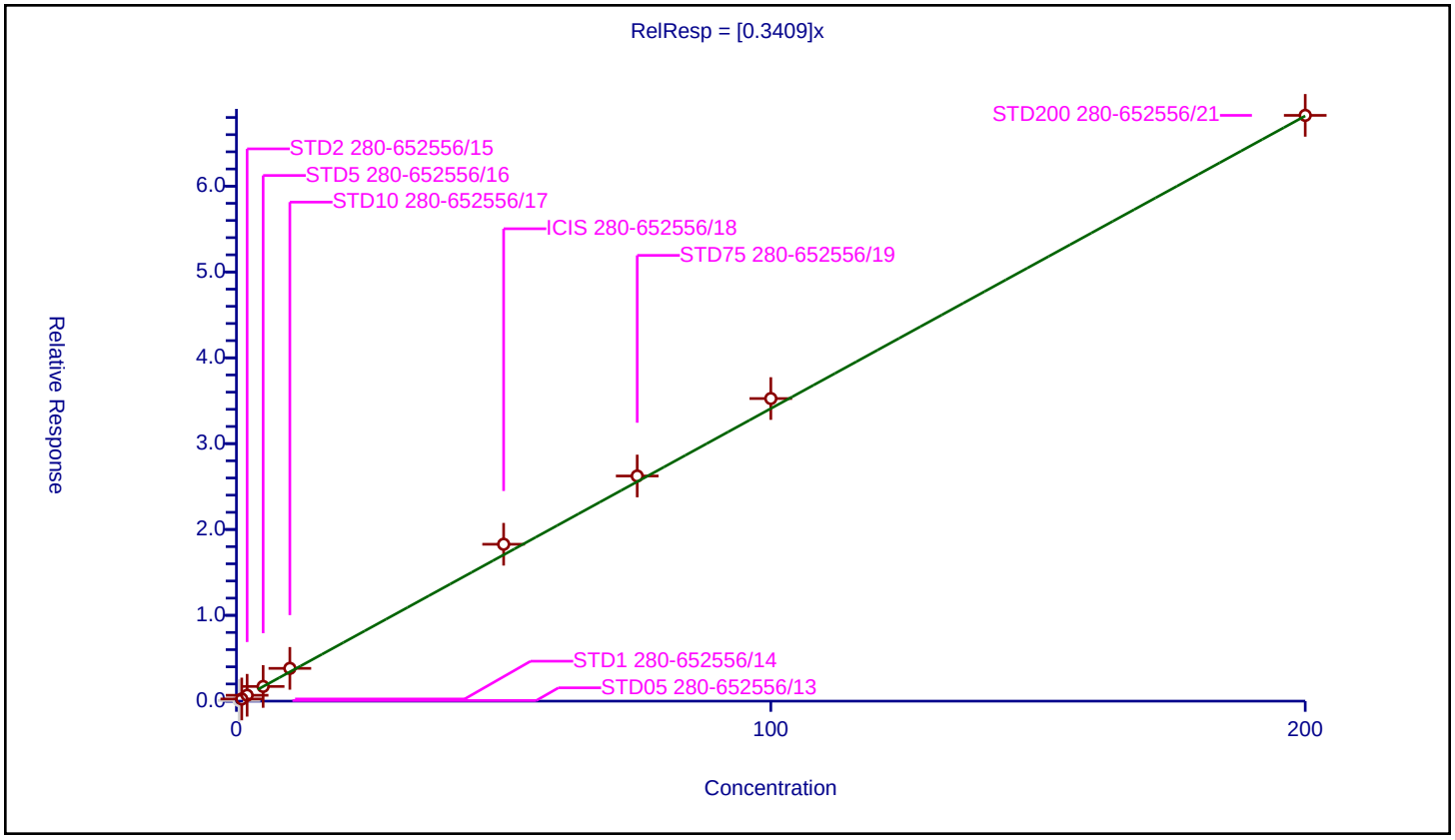
Curve Coefficients

Intercept:	0
Slope:	0.3409

Error Coefficients

Relative Standard Deviation:	11.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.07285	50.0	452300.0	0.1457	N
2	STD1 280-652556/14	1.0	0.252026	50.0	447573.0	0.252026	Y
3	STD2 280-652556/15	2.0	0.683652	50.0	464125.0	0.341826	Y
4	STD5 280-652556/16	5.0	1.711959	50.0	474661.0	0.342392	Y
5	STD10 280-652556/17	10.0	3.818829	50.0	478720.0	0.381883	Y
6	ICIS 280-652556/18	50.0	18.279334	50.0	525930.0	0.365587	Y
7	STD75 280-652556/19	75.0	26.230657	50.0	527503.0	0.349742	Y
8	STD100 280-652556/20	100.0	35.254106	50.0	545579.0	0.352541	Y
9	STD200 280-652556/21	200.0	68.244449	50.0	550192.0	0.341222	Y



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Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

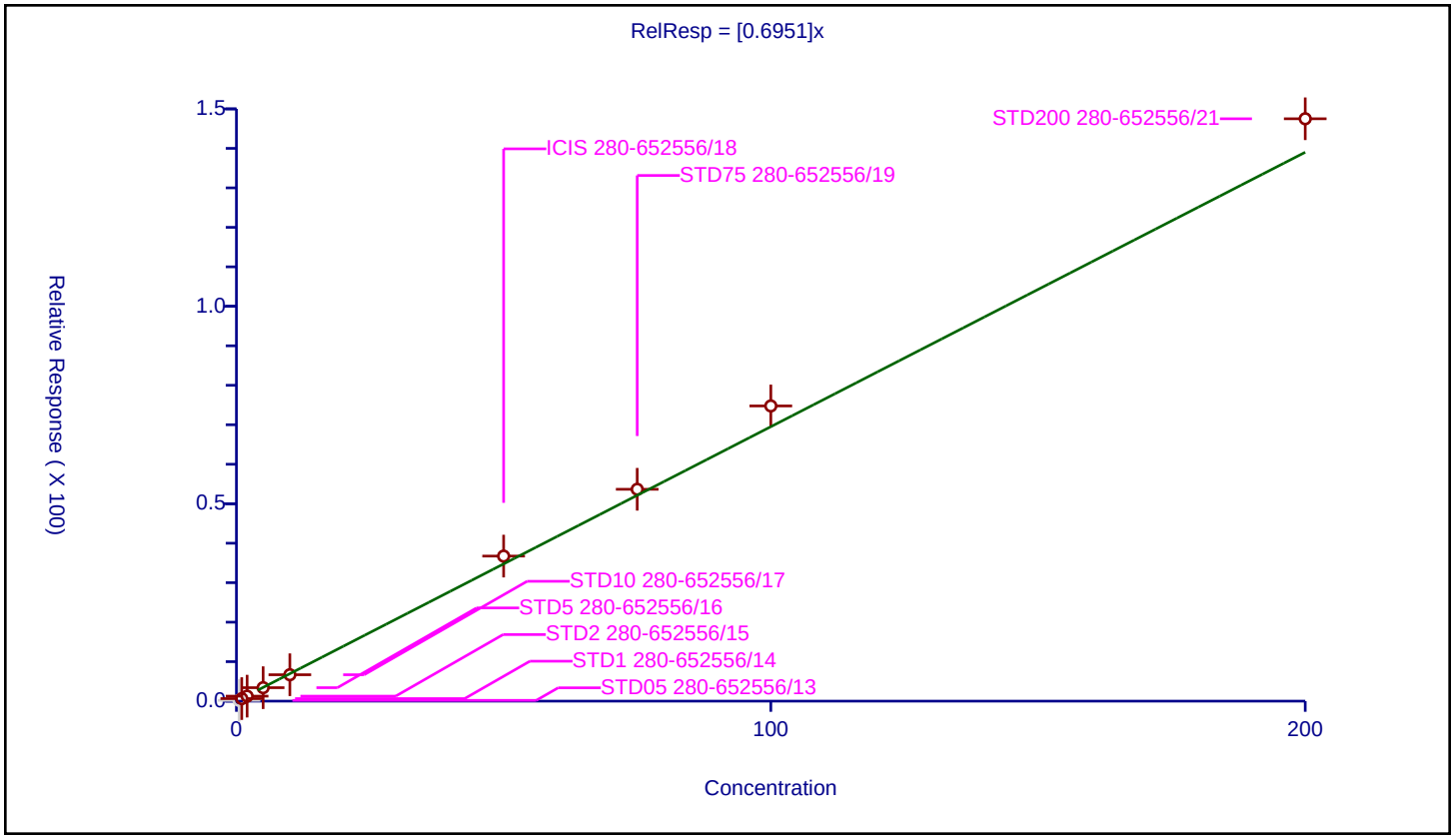
Curve Coefficients

Intercept:	0
Slope:	0.6951

Error Coefficients

Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.201526	50.0	452300.0	0.403051	N
2	STD1 280-652556/14	1.0	0.643359	50.0	447573.0	0.643359	Y
3	STD2 280-652556/15	2.0	1.264207	50.0	464125.0	0.632103	Y
4	STD5 280-652556/16	5.0	3.406958	50.0	474661.0	0.681392	Y
5	STD10 280-652556/17	10.0	6.685745	50.0	478720.0	0.668575	Y
6	ICIS 280-652556/18	50.0	36.736828	50.0	525930.0	0.734737	Y
7	STD75 280-652556/19	75.0	53.655809	50.0	527503.0	0.715411	Y
8	STD100 280-652556/20	100.0	74.768365	50.0	545579.0	0.747684	Y
9	STD200 280-652556/21	200.0	147.497964	50.0	550192.0	0.73749	Y



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Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

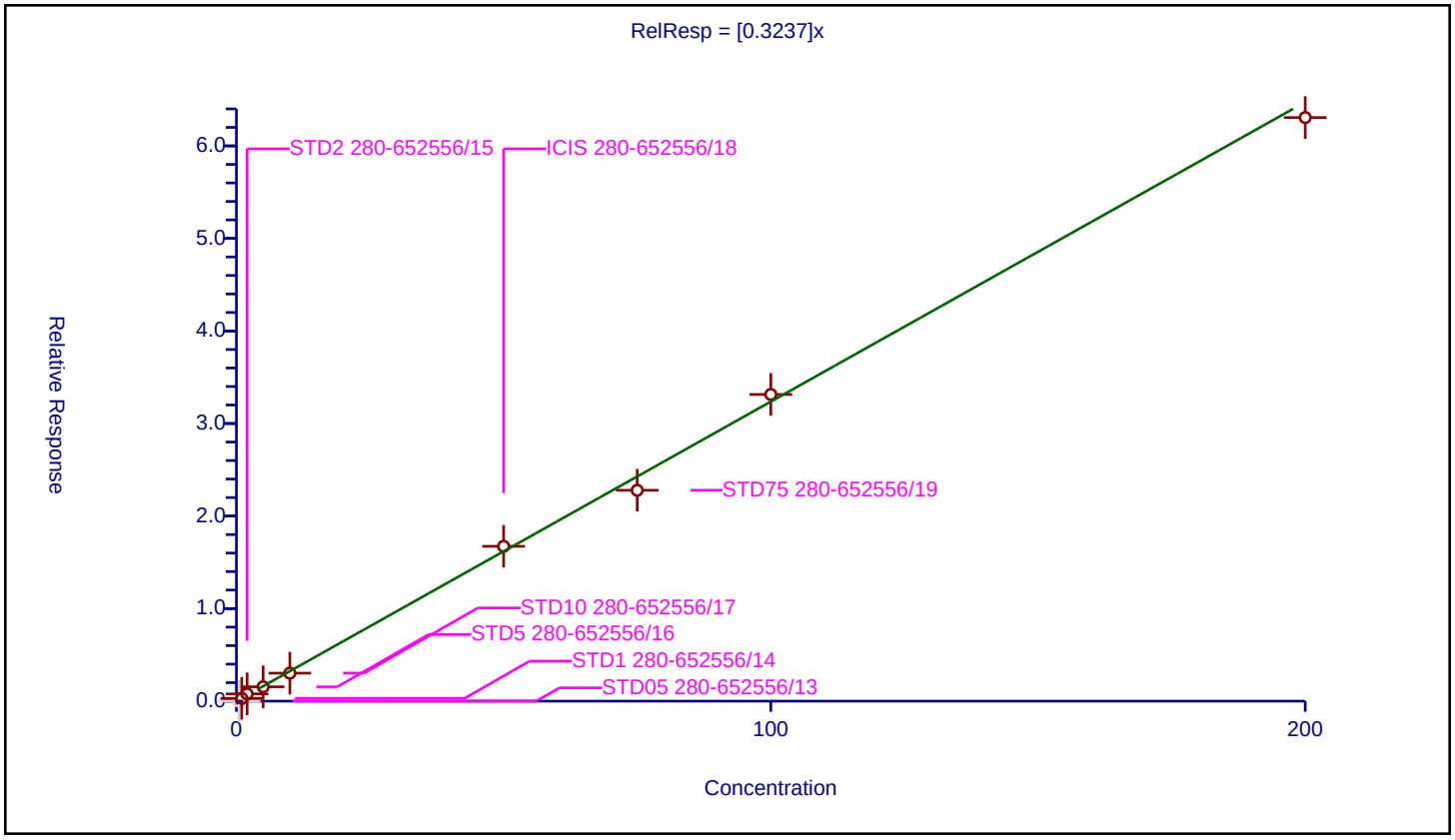
Curve Coefficients

Intercept:	0
Slope:	0.3237

Error Coefficients

Relative Standard Deviation:	9.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.0	50.0	452300.0	0.0	N
2	STD1 280-652556/14	1.0	0.301962	50.0	447573.0	0.301962	Y
3	STD2 280-652556/15	2.0	0.780501	50.0	464125.0	0.39025	Y
4	STD5 280-652556/16	5.0	1.548684	50.0	474661.0	0.309737	Y
5	STD10 280-652556/17	10.0	3.022853	50.0	478720.0	0.302285	Y
6	ICIS 280-652556/18	50.0	16.730934	50.0	525930.0	0.334619	Y
7	STD75 280-652556/19	75.0	22.787643	50.0	527503.0	0.303835	Y
8	STD100 280-652556/20	100.0	33.140572	50.0	545579.0	0.331406	Y
9	STD200 280-652556/21	200.0	63.061986	50.0	550192.0	0.31531	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

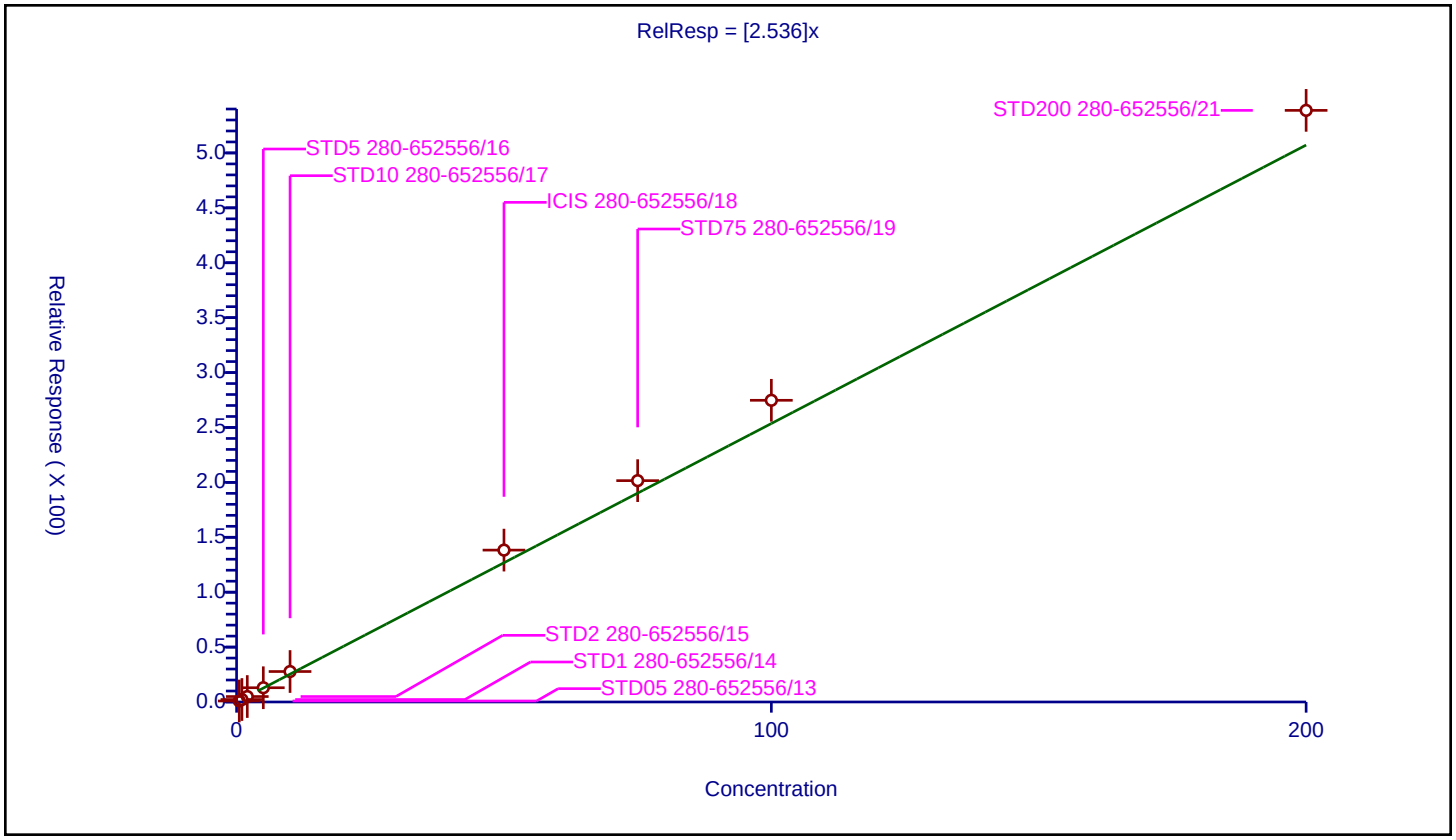
Curve Coefficients

Intercept:	0
Slope:	2.536

Error Coefficients

Relative Standard Deviation:	12.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.914769	50.0	452300.0	1.829538	Y
2	STD1 280-652556/14	1.0	2.238182	50.0	447573.0	2.238182	Y
3	STD2 280-652556/15	2.0	4.974737	50.0	464125.0	2.487369	Y
4	STD5 280-652556/16	5.0	12.991377	50.0	474661.0	2.598275	Y
5	STD10 280-652556/17	10.0	27.747013	50.0	478720.0	2.774701	Y
6	ICIS 280-652556/18	50.0	138.304052	50.0	525930.0	2.766081	Y
7	STD75 280-652556/19	75.0	201.572977	50.0	527503.0	2.68764	Y
8	STD100 280-652556/20	100.0	274.736931	50.0	545579.0	2.747369	Y
9	STD200 280-652556/21	200.0	538.750654	50.0	550192.0	2.693753	Y



5/21/2024
3:57:23 PM

Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

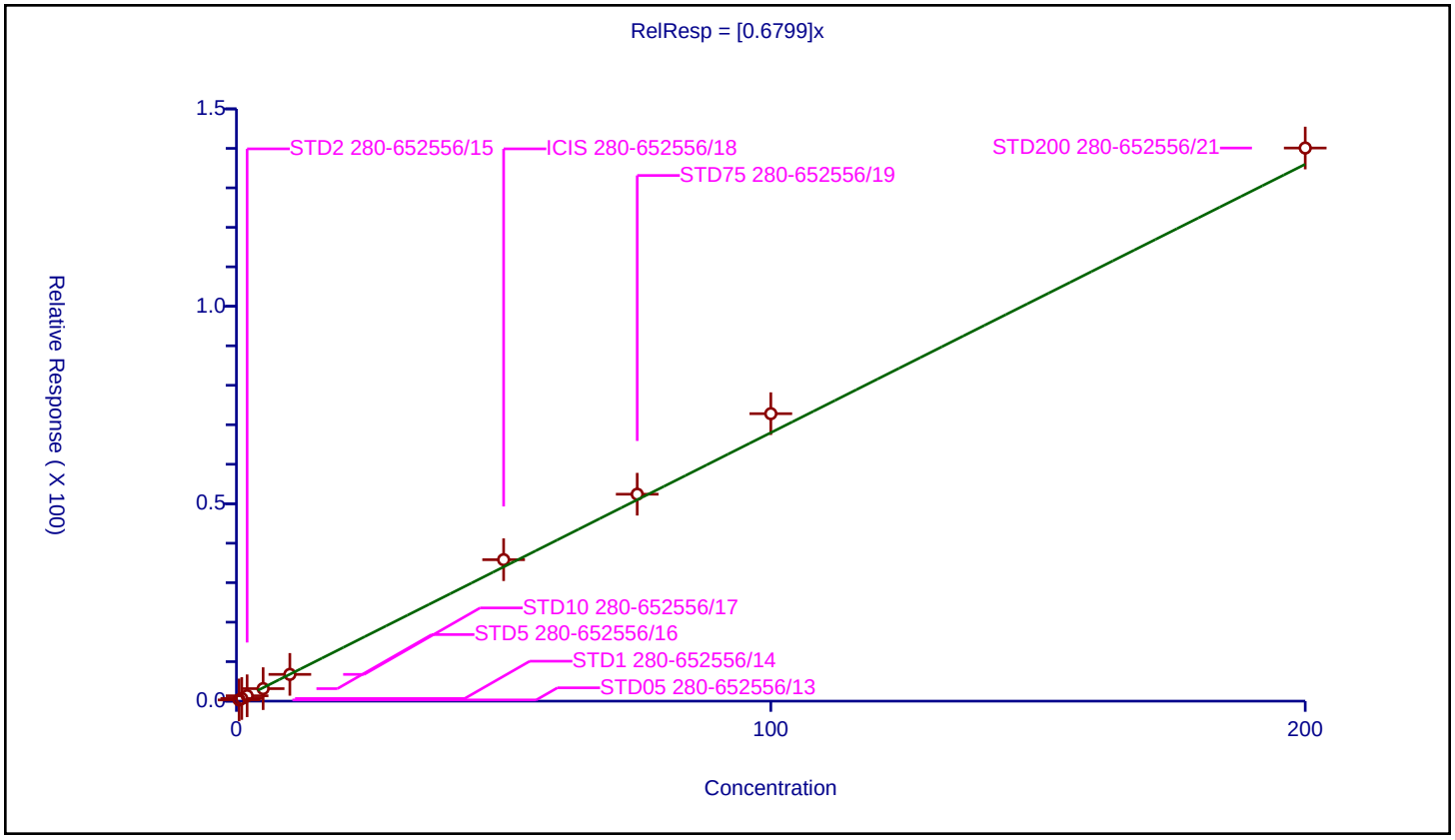
Curve Coefficients

Intercept:	0
Slope:	0.6799

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-652556/13	0.5	0.308866	50.0	452300.0	0.617732	Y
2	STD1 280-652556/14	1.0	0.666148	50.0	447573.0	0.666148	Y
3	STD2 280-652556/15	2.0	1.362025	50.0	464125.0	0.681013	Y
4	STD5 280-652556/16	5.0	3.165101	50.0	474661.0	0.63302	Y
5	STD10 280-652556/17	10.0	6.776299	50.0	478720.0	0.67763	Y
6	ICIS 280-652556/18	50.0	35.820071	50.0	525930.0	0.716401	Y
7	STD75 280-652556/19	75.0	52.411171	50.0	527503.0	0.698816	Y
8	STD100 280-652556/20	100.0	72.808979	50.0	545579.0	0.72809	Y
9	STD200 280-652556/21	200.0	140.092822	50.0	550192.0	0.700464	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Lab Sample ID: ICV 280-652556/22 | Calibration Date: 05/09/2024 03:24

Instrument ID: VMS_G2 | Calib Start Date: 05/08/2024 23:59

GC Column: DB-624 (60.25) ID: 0.25(mm) | Calib End Date: 05/09/2024 02:43

Lab File ID: G2_11773.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
Ethyl ether	Ave	0.2570	0.2991	0.0100	58.2	50.0	16.3	20.0
Acrolein	Ave	0.0650	0.0434	0.0010	329	494	-33.3*	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1285	0.1317	0.0500	51.2	50.0	2.5	20.0
1,1-Dichloroethene	Ave	0.1885	0.1852	0.0600	49.1	50.0	-1.8	20.0
Acetone	Ave	0.2504	0.2483	0.0100	198	200	-0.9	20.0
Iodomethane	Ave	0.2438	0.2652	0.0100	54.4	50.0	8.8	20.0
Carbon disulfide	Ave	0.5800	0.6097	0.1000	52.6	50.0	5.1	20.0
Methyl acetate	Lin2		0.5221	0.0100	105	100	4.8	20.0
3-Chloro-1-propene	Ave	0.4786	0.5712	0.0100	59.7	50.0	19.3	20.0
Methylene Chloride	Ave	0.2710	0.2640	0.0100	48.7	50.0	-2.6	20.0
2-Methyl-2-propanol	Ave	0.1302	0.1331	0.0010	511	500	2.3	20.0
Acrylonitrile	Lin2		0.2530	0.0100	554	500	10.8	20.0
Methyl tert-butyl ether	Ave	0.9160	0.9787	0.1000	53.4	50.0	6.8	20.0
trans-1,2-Dichloroethene	Ave	0.1960	0.2179	0.1000	55.6	50.0	11.1	20.0
Hexane	Ave	1.844	1.620	0.0100	43.9	50.0	-12.2	20.0
Vinyl acetate	Ave	0.6430	0.6321	0.0100	98.3	100	-1.7	20.0
1,1-Dichloroethane	Ave	0.5060	0.5481	0.1000	54.2	50.0	8.3	20.0
2-Butanone (MEK)	Lin2		0.4180	0.0100	212	200	6.1	20.0
cis-1,2-Dichloroethene	Ave	0.2215	0.2504	0.1000	56.5	50.0	13.1	20.0
2,2-Dichloropropane	Ave	0.3625	0.3586	0.0100	49.5	50.0	-1.1	20.0
sec-Butyl Alcohol	Lin2		0.1150	0.0100	1180	1200	-1.3	20.0
Chlorobromomethane	Lin1		0.1090	0.0500	56.1	50.0	12.2	20.0
Tetrahydrofuran	Ave	0.2838	0.3060	0.0010	108	100	7.8	20.0
Chloroform	Ave	0.4405	0.4720	0.2000	53.6	50.0	7.2	20.0
1,1,1-Trichloroethane	Ave	0.3608	0.3761	0.0500	52.1	50.0	4.2	20.0
Cyclohexane	Ave	0.5488	0.5353	0.0100	48.8	50.0	-2.4	20.0
1,1-Dichloropropene	Lin2		0.3596	0.0100	51.5	50.0	2.9	20.0
Carbon tetrachloride	Ave	0.2769	0.3009	0.1000	54.3	50.0	8.7	20.0
Isobutyl alcohol	Lin1		0.0446	0.0010	1300	1250	4.0	20.0
Benzene	Ave	1.023	1.114	0.2000	54.5	50.0	8.9	20.0
1,2-Dichloroethane	Ave	0.4298	0.4532	0.0700	52.7	50.0	5.5	20.0
n-Heptane	Ave	0.4157	0.3776		45.4	50.0	-9.2	20.0
Trichloroethene	Ave	1.155	1.189	0.2000	51.5	50.0	3.0	20.0
2-Pentanone	Lin2		0.7505	0.0010	165	160	3.4	20.0
Methylcyclohexane	Ave	0.4194	0.4007	0.0500	47.8	50.0	-4.4	20.0
1,2-Dichloropropane	Ave	0.3120	0.3390	0.1000	54.3	50.0	8.7	20.0
1,4-Dioxane	Lin2		0.0063	0.0010	1050	1000	5.3	20.0
Dibromomethane	Ave	0.1541	0.1738	0.0100	56.4	50.0	12.8	20.0
Dichlorobromomethane	Ave	0.3402	0.3861	0.2000	56.7	50.0	13.5	20.0
cis-1,3-Dichloropropene	Ave	2.023	2.325	0.2000	57.5	50.0	14.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab Sample ID: ICV 280-652556/22 Calibration Date: 05/09/2024 03:24

Instrument ID: VMS_G2 Calib Start Date: 05/08/2024 23:59

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 05/09/2024 02:43

Lab File ID: G2_11773.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
4-Methyl-2-pentanone (MIBK)	Ave	0.7339	0.8178	0.0300	223	200	11.4	20.0
Toluene	Ave	1.011	1.134	0.3000	56.1	50.0	12.1	20.0
trans-1,3-Dichloropropene	Ave	0.4141	0.4595	0.2000	55.5	50.0	11.0	20.0
Ethyl methacrylate	Lin2		2.553	0.0100	51.0	50.0	1.9	20.0
1,1,2-Trichloroethane	Ave	0.2285	0.2518	0.1000	55.1	50.0	10.2	20.0
Tetrachloroethene	Lin2		0.7643	0.1000	49.2	50.0	-1.7	20.0
1,3-Dichloropropane	Ave	2.125	2.312	0.0100	54.4	50.0	8.8	20.0
2-Hexanone	Lin2		3.049	0.0100	200	200	0.1	20.0
Chlorodibromomethane	Ave	1.077	1.170	0.1000	54.3	50.0	8.6	20.0
Ethylene Dibromide	Ave	1.102	1.198	0.1000	54.4	50.0	8.7	20.0
1-Chlorohexane	Ave	1.574	1.502	0.0100	38.2	40.0	-4.6	20.0
Chlorobenzene	Ave	2.836	2.972	0.3000	52.4	50.0	4.8	20.0
1,1,1,2-Tetrachloroethane	Ave	1.006	1.059	0.0100	52.6	50.0	5.3	20.0
Ethylbenzene	Ave	1.508	1.599	0.3000	53.0	50.0	6.0	20.0
m-Xylene & p-Xylene	Ave	1.855	2.017	0.1000	54.4	50.0	8.7	20.0
o-Xylene	Ave	1.864	2.059	0.2000	55.2	50.0	10.5	20.0
Styrene	Ave	3.033	3.454	0.2000	56.9	50.0	13.9	20.0
Bromoform	Ave	0.7517	0.8242	0.1000	54.8	50.0	9.6	20.0
Isopropylbenzene	Ave	3.394	3.440	0.3000	50.7	50.0	1.3	20.0
Cyclohexanone	Ave	0.2121	0.2234	0.0010	1580	1500	5.3	20.0
1,1,2,2-Tetrachloroethane	Ave	1.309	1.265	0.3000	48.3	50.0	-3.4	20.0
Bromobenzene	Ave	0.6709	0.7478	0.0100	55.7	50.0	11.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.5740	0.5767	0.0100	50.2	50.0	0.5	20.0
1,2,3-Trichloropropane	Ave	0.4207	0.4184	0.0100	49.7	50.0	-0.6	20.0
N-Propylbenzene	Ave	0.8108	0.8620	0.0100	53.2	50.0	6.3	20.0
2-Chlorotoluene	Ave	0.6564	0.7291	0.0100	55.5	50.0	11.1	20.0
1,3,5-Trimethylbenzene	Ave	2.677	2.768	0.0100	51.7	50.0	3.4	20.0
4-Chlorotoluene	Ave	0.6678	0.7447	0.0100	55.8	50.0	11.5	20.0
tert-Butylbenzene	Ave	2.260	2.295	0.0100	50.8	50.0	1.5	20.0
1,2,4-Trimethylbenzene	Ave	2.668	2.783	0.3000	52.2	50.0	4.3	20.0
sec-Butylbenzene	Ave	0.5800	0.6307	0.0100	54.4	50.0	8.8	20.0
1,3-Dichlorobenzene	Ave	1.286	1.386	0.5000	53.9	50.0	7.8	20.0
4-Isopropyltoluene	Ave	2.667	2.770	0.0100	51.9	50.0	3.9	20.0
1,4-Dichlorobenzene	Ave	1.313	1.378	0.5000	52.5	50.0	4.9	20.0
n-Butylbenzene	Ave	2.470	2.541	0.0100	51.4	50.0	2.9	20.0
1,2-Dichlorobenzene	Ave	1.249	1.319	0.5000	52.8	50.0	5.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.3409	0.3701	0.0100	54.3	50.0	8.6	20.0
1,2,4-Trichlorobenzene	Ave	0.6951	0.7527	0.2000	54.1	50.0	8.3	20.0
Hexachlorobutadiene	Ave	0.3237	0.3159	0.0100	48.8	50.0	-2.4	20.0
Naphthalene	Ave	2.536	2.795	0.0100	55.1	50.0	10.2	20.0
1,2,3-Trichlorobenzene	Ave	0.6799	0.7359	0.3000	54.1	50.0	8.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab Sample ID: ICV 280-652556/22 Calibration Date: 05/09/2024 03:24

Instrument ID: VMS_G2 Calib Start Date: 05/08/2024 23:59

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 05/09/2024 02:43

Lab File ID: G2_11773.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
Dibromofluoromethane (Surr)	Ave	0.2230	0.2307	0.0100	51.7	50.0	3.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3558	0.3473	0.0100	48.8	50.0	-2.4	20.0
Toluene-d8 (Surr)	Ave	4.651	4.599	0.0100	49.4	50.0	-1.1	20.0
4-Bromofluorobenzene (Surr)	Ave	1.155	1.122	0.0100	48.6	50.0	-2.9	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11773.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 09-May-2024 03:24:30 ALS Bottle#: 11 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Operator ID: COULTER/CF Instrument ID: VMS_G2
Sublist:

Method: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 09-May-2024 13:22:17 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: Q2ZS Date: 09-May-2024 11:56:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.596	4.596	0.000	97	1622101	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.077	7.077	0.000	93	353683	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.277	9.277	0.000	95	528533	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.113	4.113	0.000	92	374234	50.0	51.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.364	4.363	0.001	97	563329	50.0	48.8	
$ 6 Toluene-d8 (Surr)	98	5.827	5.827	0.000	95	1626671	50.0	49.4	
$ 7 4-Bromofluorobenzene (Surr)	95	8.166	8.166	0.000	80	592761	50.0	48.6	
18 Ethyl ether	59	2.373	2.373	0.000	98	485091	50.0	58.2	
19 Acrolein	56	2.477	2.477	0.000	99	694662	493.8	329.3	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.545	2.541	0.004	98	213585	50.0	51.2	
21 1,1-Dichloroethene	96	2.545	2.545	0.000	92	300434	50.0	49.1	
22 Acetone	43	2.575	2.575	0.000	98	1610773	200.0	198.3	
23 Iodomethane	142	2.657	2.657	0.000	98	430104	50.0	54.4	
25 Carbon disulfide	76	2.713	2.713	0.000	100	989001	50.0	52.6	
26 Methyl acetate	43	2.784	2.784	0.000	99	1693639	100.0	104.8	
16 3-Chloro-1-propene	41	2.796	2.795	0.001	87	926498	50.0	59.7	
28 Methylene Chloride	84	2.893	2.889	0.004	96	428298	50.0	48.7	
29 2-Methyl-2-propanol	59	2.941	2.941	0.000	98	2159750	500.0	511.3	
30 Acrylonitrile	53	3.043	3.042	0.000	97	4104462	500.0	554.0	
31 Methyl tert-butyl ether	73	3.057	3.057	0.000	99	1587491	50.0	53.4	
32 trans-1,2-Dichloroethene	96	3.072	3.072	0.000	92	353400	50.0	55.6	
33 Hexane	57	3.256	3.256	0.000	96	573064	50.0	43.9	
35 Vinyl acetate	43	3.364	3.364	0.000	97	2050678	100.0	98.3	
34 1,1-Dichloroethane	63	3.372	3.372	0.000	97	889117	50.0	54.2	
39 2-Butanone (MEK)	43	3.754	3.750	0.004	98	2712002	200.0	212.1	
40 cis-1,2-Dichloroethene	96	3.769	3.768	0.000	91	406196	50.0	56.5	
41 2,2-Dichloropropane	77	3.772	3.772	0.000	89	581667	50.0	49.5	
44 sec-Butyl Alcohol	45	3.870	3.869	0.001	100	4477790	1200.0	1184.4	
46 Chlorobromomethane	128	3.941	3.941	0.000	86	176814	50.0	56.1	
47 Tetrahydrofuran	42	3.948	3.948	0.000	92	992779	100.0	107.8	
48 Chloroform	83	3.997	3.997	0.000	98	765644	50.0	53.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
49 1,1,1-Trichloroethane	97	4.128	4.128	0.000	96	610069	50.0	52.1	
50 Cyclohexane	56	4.180	4.180	0.000	98	868354	50.0	48.8	
52 1,1-Dichloropropene	75	4.240	4.240	0.000	88	583378	50.0	51.5	
51 Carbon tetrachloride	117	4.240	4.240	0.000	86	488163	50.0	54.3	
53 Isobutyl alcohol	41	4.277	4.277	0.000	94	1809963	1250.0	1300.3	
54 Benzene	78	4.386	4.386	0.000	98	1807307	50.0	54.5	
55 1,2-Dichloroethane	62	4.420	4.420	0.000	97	735217	50.0	52.7	
57 n-Heptane	43	4.577	4.577	0.000	98	612454	50.0	45.4	
59 Trichloroethene	95	4.865	4.865	0.000	93	420695	50.0	51.5	
60 2-Pentanone	43	4.977	4.977	0.000	97	3895676	160.0	165.5	
61 Methylcyclohexane	55	5.045	5.045	0.000	97	650025	50.0	47.8	
62 1,2-Dichloropropane	63	5.063	5.063	0.000	95	549904	50.0	54.3	
64 1,4-Dioxane	88	5.127	5.127	0.000	94	205223	1000.0	1052.6	
65 Dibromomethane	93	5.138	5.138	0.000	90	281918	50.0	56.4	
66 Dichlorobromomethane	83	5.262	5.262	0.000	97	626245	50.0	56.7	
69 cis-1,3-Dichloropropene	75	5.606	5.610	-0.004	88	822238	50.0	57.5	
70 4-Methyl-2-pentanone (MIBK)	43	5.711	5.711	0.000	99	5306364	200.0	222.9	
71 Toluene	91	5.883	5.883	0.000	97	1838760	50.0	56.1	
72 trans-1,3-Dichloropropene	75	6.070	6.070	0.000	99	745383	50.0	55.5	
73 Ethyl methacrylate	69	6.096	6.096	0.000	97	902858	50.0	51.0	
74 1,1,2-Trichloroethane	97	6.235	6.235	0.000	95	408379	50.0	55.1	
75 Tetrachloroethene	164	6.313	6.317	-0.004	92	270332	50.0	49.2	
76 1,3-Dichloropropane	76	6.377	6.377	0.000	98	817569	50.0	54.4	
77 2-Hexanone	43	6.407	6.407	0.000	99	4313773	200.0	200.3	
78 Chlorodibromomethane	129	6.564	6.564	0.000	89	413819	50.0	54.3	
79 Ethylene Dibromide	107	6.676	6.676	0.000	97	423864	50.0	54.4	
80 1-Chlorohexane	91	7.073	7.073	0.000	82	425121	40.0	38.2	
81 Chlorobenzene	112	7.103	7.103	0.000	88	1051319	50.0	52.4	
82 1,1,1,2-Tetrachloroethane	131	7.178	7.178	0.000	92	374711	50.0	52.6	
83 Ethylbenzene	106	7.181	7.185	-0.004	99	565515	50.0	53.0	
84 m-Xylene & p-Xylene	106	7.301	7.305	-0.004	98	713430	50.0	54.4	
85 o-Xylene	106	7.657	7.657	0.000	99	728216	50.0	55.2	
86 Styrene	104	7.675	7.675	0.000	94	1221629	50.0	56.9	
87 Bromoform	173	7.848	7.847	0.001	93	291516	50.0	54.8	
88 Isopropylbenzene	105	7.993	7.993	0.000	97	1817974	50.0	50.7	
89 Cyclohexanone	55	8.083	8.087	-0.004	98	2370112	1500.0	1579.5	
91 1,1,2,2-Tetrachloroethane	83	8.285	8.289	-0.004	96	668775	50.0	48.3	
92 Bromobenzene	156	8.300	8.300	0.000	96	395248	50.0	55.7	
93 trans-1,4-Dichloro-2-butene	53	8.327	8.326	0.001	89	304798	50.0	50.2	
94 1,2,3-Trichloropropane	110	8.345	8.345	0.000	87	221134	50.0	49.7	
95 N-Propylbenzene	120	8.390	8.390	0.000	99	455578	50.0	53.2	
96 2-Chlorotoluene	126	8.476	8.480	-0.004	93	385333	50.0	55.5	
97 1,3,5-Trimethylbenzene	105	8.566	8.562	0.004	93	1462849	50.0	51.7	
98 4-Chlorotoluene	126	8.596	8.596	0.000	99	393620	50.0	55.8	
99 tert-Butylbenzene	119	8.865	8.865	0.000	95	1212741	50.0	50.8	
100 1,2,4-Trimethylbenzene	105	8.925	8.925	0.000	99	1470749	50.0	52.2	
101 sec-Butylbenzene	134	9.082	9.082	0.000	96	333360	50.0	54.4	
102 1,3-Dichlorobenzene	146	9.202	9.206	-0.004	94	732743	50.0	53.9	
103 4-Isopropyltoluene	119	9.232	9.236	-0.004	97	1463957	50.0	51.9	
104 1,4-Dichlorobenzene	146	9.303	9.303	0.000	90	728221	50.0	52.5	
106 n-Butylbenzene	91	9.633	9.633	0.001	99	1342838	50.0	51.4	
107 1,2-Dichlorobenzene	146	9.648	9.651	-0.003	93	697197	50.0	52.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,2-Dibromo-3-Chloropropane	157	10.426	10.426	0.000	71	195617	50.0	54.3	
110 1,2,4-Trichlorobenzene	180	11.238	11.242	-0.004	93	397840	50.0	54.1	
111 Hexachlorobutadiene	225	11.384	11.384	0.000	96	166974	50.0	48.8	
112 Naphthalene	128	11.496	11.500	-0.004	98	1477361	50.0	55.1	
113 1,2,3-Trichlorobenzene	180	11.721	11.721	0.000	93	388931	50.0	54.1	
S 115 1,2-Dichloroethene, Total	1				0		100.0	112.1	
S 116 1,3-Dichloropropene, Total	1				0		100.0	112.9	
S 117 Xylenes, Total	106				0		100.0	109.6	
S 119 Trihalomethanes, Total	1				0		200.0	219.5	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00107	Amount Added:	25.00	Units: uL	
mv-IS_SS_00079	Amount Added:	5.00	Units: uL	Run Reagent

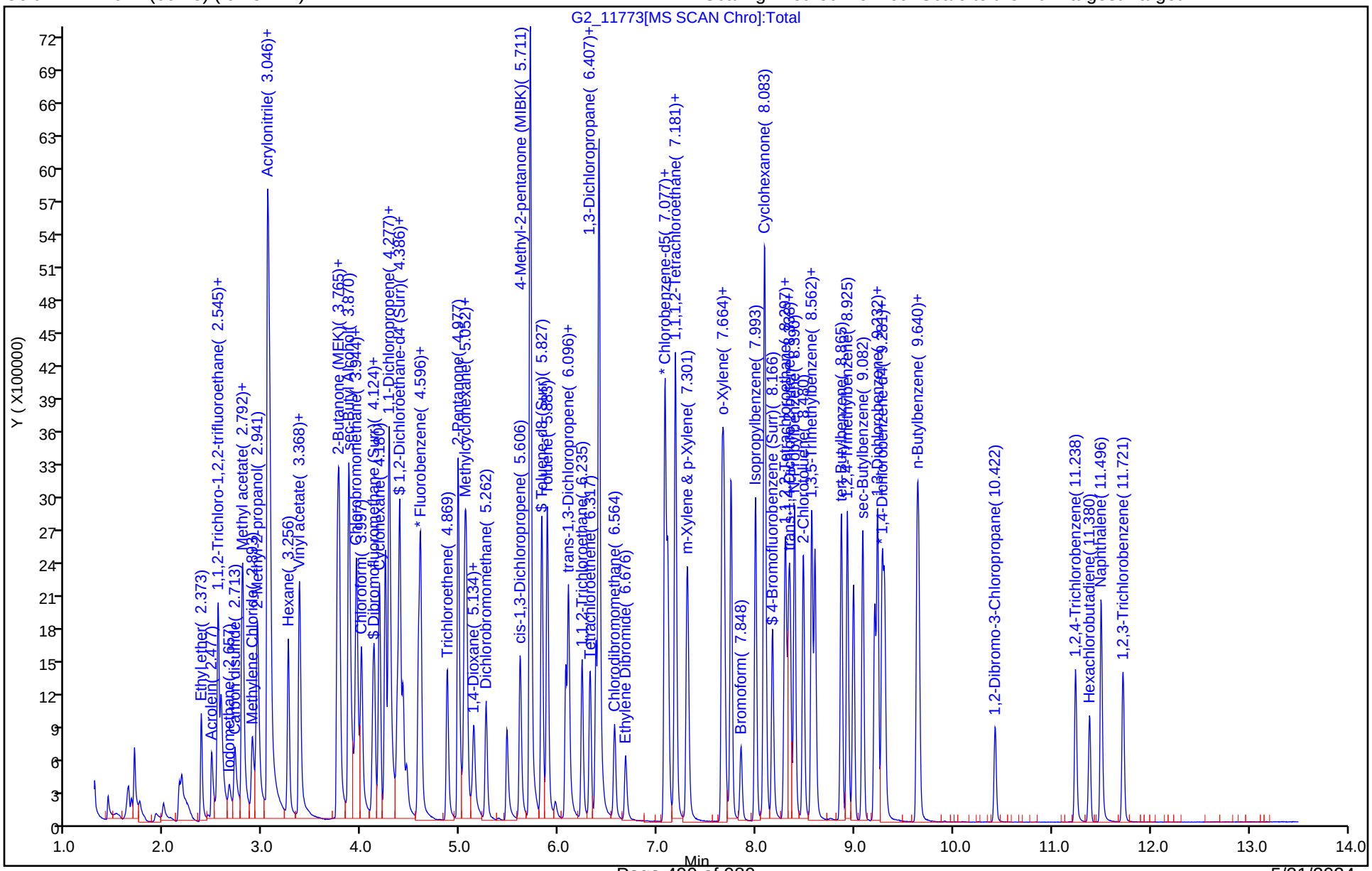
Report Date: 09-May-2024 13:32:55 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11773.D

Injection Date:	09-May-2024 03:24:30	Instrument ID:	VMS_G2	Operator ID:	COULTER/CF
Lims ID:	ICV			Worklist Smp#:	22
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Lab Sample ID: ICV 280-652556/33 | Calibration Date: 05/09/2024 16:05

Instrument ID: VMS_G2 | Calib Start Date: 05/08/2024 23:59

GC Column: DB-624 (60.25) ID: 0.25(mm) | Calib End Date: 05/09/2024 02:43

Lab File ID: G2_11795.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	0.1927	0.2211	0.1000	57.4	50.0	14.8	20.0
Chloromethane	Ave	0.2899	0.2795	0.1000	48.2	50.0	-3.6	20.0
Vinyl chloride	Ave	0.2295	0.1936	0.0100	42.2	50.0	-15.6	20.0
Bromomethane	Ave	0.0734	0.0652	0.0100	44.4	50.0	-11.1	20.0
Chloroethane	Ave	0.1436	0.1516	0.0100	52.8	50.0	5.6	20.0
Dichlorofluoromethane	Ave	0.3939	0.4864	0.0100	61.7	50.0	23.5*	20.0
Trichlorofluoromethane	Ave	0.3000	0.3336	0.0100	55.6	50.0	11.2	20.0
2-Chloroethyl vinyl ether	Lin2		0.2521	0.0100	49.1	50.0	-1.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2230	0.2275	0.0100	51.0	50.0	2.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3558	0.3561	0.0100	50.0	50.0	0.0	20.0
Toluene-d8 (Surr)	Ave	4.651	4.572	0.0100	49.1	50.0	-1.7	20.0
4-Bromofluorobenzene (Surr)	Ave	1.155	1.176	0.0100	50.9	50.0	1.9	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11795.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 09-May-2024 16:05:30 ALS Bottle#: 1 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV RR gases
Operator ID: COULTER Instrument ID: VMS_G2
Sublist:

Method: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 09-May-2024 17:12:03 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1635

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.595	4.596	-0.001	96	1696761	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.076	7.077	-0.001	94	361808	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.277	9.277	0.000	97	521206	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.113	4.113	0.000	92	385997	50.0	51.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.363	4.363	0.000	98	604242	50.0	50.0	
$ 6 Toluene-d8 (Surr)	98	5.826	5.827	-0.001	96	1654018	50.0	49.1	
$ 7 4-Bromofluorobenzene (Surr)	95	8.165	8.166	-0.001	79	612910	50.0	50.9	
9 Dichlorodifluoromethane	85	1.426	1.426	0.000	99	375172	50.0	57.4	
10 Chloromethane	50	1.631	1.628	0.003	99	474213	50.0	48.2	
11 Vinyl chloride	62	1.665	1.665	0.000	99	328421	50.0	42.2	
12 Bromomethane	94	1.916	1.912	0.004	94	110638	50.0	44.4	
13 Chloroethane	64	1.994	1.991	0.003	99	257178	50.0	52.8	
14 Dichlorofluoromethane	67	2.152	2.152	0.000	99	825301	50.0	61.7	
15 Trichlorofluoromethane	101	2.174	2.178	-0.004	99	566058	50.0	55.6	
68 2-Chloroethyl vinyl ether	63	5.471	5.471	0.000	91	427836	50.0	49.1	

Reagents:

MV-Gas A_00187 Amount Added: 10.00 Units: uL
mv-IS_SS_00079 Amount Added: 5.00 Units: uL Run Reagent

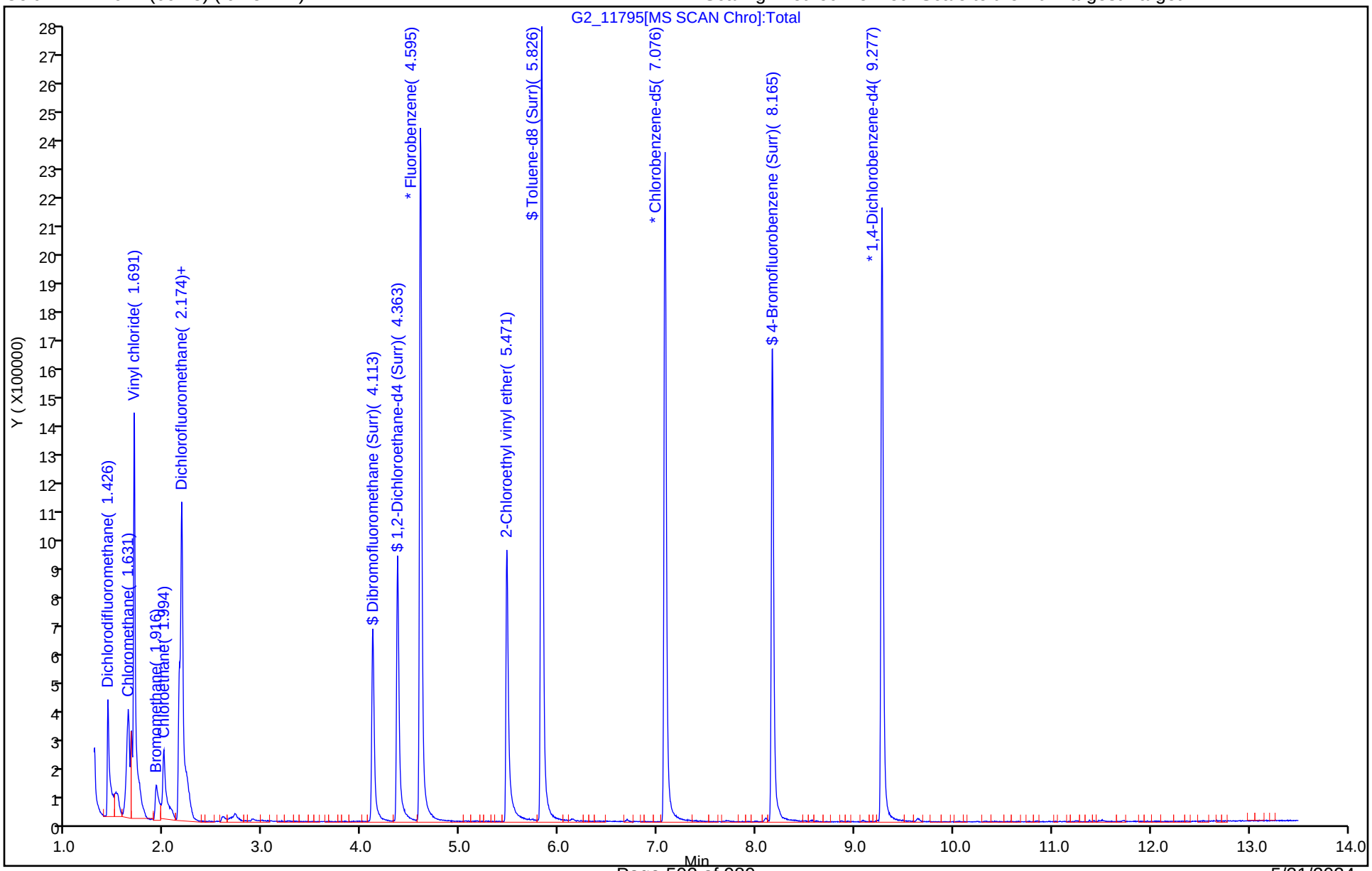
Report Date: 09-May-2024 17:12:04 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11795.D

Injection Date:	09-May-2024 16:05:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	ICV			Worklist Smp#:	33
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



5/21/2024
3:57:23 PM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653922/2 | Calibration Date: 05/17/2024 19:59

Instrument ID: VMS_G2 | Calib Start Date: 05/08/2024 23:59

GC Column: DB-624 (60.25) ID: 0.25(mm) | Calib End Date: 05/09/2024 02:43

Lab File ID: G2_12149.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	0.1927	0.1530	0.1000	39.7	50.0	-20.6*	20.0
Chloromethane	Ave	0.2899	0.2017	0.1000	34.8	50.0	-30.4*	20.0
Vinyl chloride	Ave	0.2295	0.1453	0.0100	31.7	50.0	-36.7*	20.0
Bromomethane	Ave	0.0734	0.0246	0.0100	16.8	50.0	-66.5*	20.0
Chloroethane	Ave	0.1436	0.0721	0.0100	25.1	50.0	-49.8*	20.0
Dichlorofluoromethane	Ave	0.3939	0.2254	0.0100	28.6	50.0	-42.8*	20.0
Trichlorofluoromethane	Ave	0.3000	0.1630	0.0100	27.2	50.0	-45.7*	20.0
Ethyl ether	Ave	0.2570	0.2136	0.0100	41.5	50.0	-16.9	20.0
Acrolein	Ave	0.0650	0.0643	0.0010	489	494	-1.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1285	0.1578	0.0500	61.4	50.0	22.8*	20.0
1,1-Dichloroethene	Ave	0.1885	0.1924	0.0600	51.0	50.0	2.1	20.0
Acetone	Ave	0.2504	0.1806	0.0100	144	200	-27.9*	20.0
Iodomethane	Ave	0.2438	0.1113	0.0100	22.8	50.0	-54.3*	20.0
Carbon disulfide	Ave	0.5800	0.5325	0.1000	45.9	50.0	-8.2	20.0
Methyl acetate	Lin2		0.3749	0.0100	75.5	100	-24.5*	20.0
3-Chloro-1-propene	Ave	0.4786	0.3656	0.0100	38.2	50.0	-23.6*	20.0
Methylene Chloride	Ave	0.2710	0.2329	0.0100	43.0	50.0	-14.1	20.0
2-Methyl-2-propanol	Ave	0.1302	0.1255	0.0010	482	500	-3.6	20.0
Acrylonitrile	Lin2		0.1892	0.0100	415	500	-17.0	20.0
Methyl tert-butyl ether	Ave	0.9160	0.8032	0.1000	43.8	50.0	-12.3	20.0
trans-1,2-Dichloroethene	Ave	0.1960	0.2094	0.1000	53.4	50.0	6.8	20.0
Hexane	Ave	1.844	1.529	0.0100	41.5	50.0	-17.1	20.0
Vinyl acetate	Ave	0.6430	0.6866	0.0100	107	100	6.8	20.0
1,1-Dichloroethane	Ave	0.5060	0.4463	0.1000	44.1	50.0	-11.8	20.0
2-Butanone (MEK)	Lin2		0.3006	0.0100	153	200	-23.4*	20.0
cis-1,2-Dichloroethene	Ave	0.2215	0.2479	0.1000	56.0	50.0	11.9	20.0
2,2-Dichloropropane	Ave	0.3625	0.3780	0.0100	52.1	50.0	4.3	20.0
sec-Butyl Alcohol	Lin2		0.0918	0.0100	949	1200	-20.9*	20.0
Chlorobromomethane	Lin1		0.1059	0.0500	54.6	50.0	9.1	20.0
Tetrahydrofuran	Ave	0.2838	0.2274	0.0010	80.1	100	-19.9	20.0
Chloroform	Ave	0.4405	0.4257	0.2000	48.3	50.0	-3.4	20.0
1,1,1-Trichloroethane	Ave	0.3608	0.3652	0.0500	50.6	50.0	1.2	20.0
Cyclohexane	Ave	0.5488	0.4632	0.0100	42.2	50.0	-15.6	20.0
Carbon tetrachloride	Ave	0.2769	0.3028	0.1000	54.7	50.0	9.3	20.0
1,1-Dichloropropene	Lin2		0.3301	0.0100	47.3	50.0	-5.5	20.0
Isobutyl alcohol	Lin1		0.0343	0.0010	1000	1250	-19.8	20.0
Benzene	Ave	1.023	1.003	0.2000	49.0	50.0	-2.0	20.0
1,2-Dichloroethane	Ave	0.4298	0.3596	0.0700	41.8	50.0	-16.3	20.0
n-Heptane	Ave	0.4157	0.3536		42.5	50.0	-14.9	
Trichloroethene	Ave	1.155	1.073	0.2000	46.5	50.0	-7.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653922/2 | Calibration Date: 05/17/2024 19:59

Instrument ID: VMS_G2 | Calib Start Date: 05/08/2024 23:59

GC Column: DB-624 (60.25) ID: 0.25(mm) | Calib End Date: 05/09/2024 02:43

Lab File ID: G2_12149.D | Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Pentanone	Lin2		0.5276	0.0010	117	160	-26.9*	20.0
Methylcyclohexane	Ave	0.4194	0.3633	0.0500	43.3	50.0	-13.4	20.0
1,2-Dichloropropane	Ave	0.3120	0.2765	0.1000	44.3	50.0	-11.4	20.0
1,4-Dioxane	Lin2		0.0047	0.0010	782	1000	-21.8*	20.0
Dibromomethane	Ave	0.1541	0.1605	0.0100	52.1	50.0	4.1	20.0
Dichlorobromomethane	Ave	0.3402	0.3395	0.2000	49.9	50.0	-0.2	20.0
2-Chloroethyl vinyl ether	Lin2		0.2064	0.0100	40.4	50.0	-19.2	20.0
cis-1,3-Dichloropropene	Ave	2.023	1.795	0.2000	44.4	50.0	-11.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7339	0.5523	0.0300	151	200	-24.7*	20.0
Toluene	Ave	1.011	1.071	0.3000	53.0	50.0	5.9	20.0
trans-1,3-Dichloropropene	Ave	0.4141	0.4105	0.2000	49.6	50.0	-0.9	20.0
Ethyl methacrylate	Lin2		1.997	0.0100	40.0	50.0	-20.1*	20.0
1,1,2-Trichloroethane	Ave	0.2285	0.2481	0.1000	54.3	50.0	8.6	20.0
Tetrachloroethene	Lin2		0.8791	0.1000	56.5	50.0	13.0	20.0
1,3-Dichloropropane	Ave	2.125	1.908	0.0100	44.9	50.0	-10.2	20.0
2-Hexanone	Lin2		1.996	0.0100	132	200	-34.2*	20.0
Chlorodibromomethane	Ave	1.077	1.126	0.1000	52.3	50.0	4.5	20.0
Ethylene Dibromide	Ave	1.102	1.126	0.1000	51.0	50.0	2.1	20.0
1-Chlorohexane	Ave	1.574	1.475	0.0100	37.5	40.0	-6.3	20.0
Chlorobenzene	Ave	2.836	2.847	0.3000	50.2	50.0	0.4	20.0
1,1,1,2-Tetrachloroethane	Ave	1.006	1.026	0.0100	51.0	50.0	1.9	20.0
Ethylbenzene	Ave	1.508	1.545	0.3000	51.2	50.0	2.5	20.0
m-Xylene & p-Xylene	Ave	1.855	1.918	0.1000	51.7	50.0	3.4	20.0
o-Xylene	Ave	1.864	1.899	0.2000	51.0	50.0	1.9	20.0
Styrene	Ave	3.033	3.227	0.2000	53.2	50.0	6.4	20.0
Bromoform	Ave	0.7517	0.8291	0.1000	55.1	50.0	10.3	20.0
Isopropylbenzene	Ave	3.394	3.164	0.3000	46.6	50.0	-6.8	20.0
Cyclohexanone	Ave	0.2121	0.1617	0.0010	1140	1500	-23.8*	20.0
1,1,2,2-Tetrachloroethane	Ave	1.309	1.082	0.3000	41.3	50.0	-17.4	20.0
Bromobenzene	Ave	0.6709	0.7443	0.0100	55.5	50.0	10.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.5740	0.3580	0.0100	31.2	50.0	-37.6*	20.0
1,2,3-Trichloropropane	Ave	0.4207	0.3690	0.0100	43.9	50.0	-12.3	20.0
N-Propylbenzene	Ave	0.8108	0.8144	0.0100	50.2	50.0	0.4	20.0
2-Chlorotoluene	Ave	0.6564	0.6915	0.0100	52.7	50.0	5.3	20.0
1,3,5-Trimethylbenzene	Ave	2.677	2.457	0.0100	45.9	50.0	-8.2	20.0
4-Chlorotoluene	Ave	0.6678	0.6913	0.0100	51.8	50.0	3.5	20.0
tert-Butylbenzene	Ave	2.260	2.156	0.0100	47.7	50.0	-4.6	20.0
1,2,4-Trimethylbenzene	Ave	2.668	2.447	0.3000	45.9	50.0	-8.3	20.0
sec-Butylbenzene	Ave	0.5800	0.6204	0.0100	53.5	50.0	7.0	20.0
1,3-Dichlorobenzene	Ave	1.286	1.372	0.5000	53.3	50.0	6.7	20.0
4-Isopropyltoluene	Ave	2.667	2.552	0.0100	47.8	50.0	-4.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653922/2 Calibration Date: 05/17/2024 19:59

Instrument ID: VMS_G2 Calib Start Date: 05/08/2024 23:59

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 05/09/2024 02:43

Lab File ID: G2_12149.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
1,4-Dichlorobenzene	Ave	1.313	1.394	0.5000	53.1	50.0	6.1	20.0
n-Butylbenzene	Ave	2.470	2.268	0.0100	45.9	50.0	-8.2	20.0
1,2-Dichlorobenzene	Ave	1.249	1.265	0.5000	50.6	50.0	1.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.3409	0.3567	0.0100	52.3	50.0	4.6	20.0
1,2,4-Trichlorobenzene	Ave	0.6951	0.8079	0.2000	58.1	50.0	16.2	20.0
Hexachlorobutadiene	Ave	0.3237	0.3758	0.0100	58.1	50.0	16.1	20.0
Naphthalene	Ave	2.536	2.672	0.0100	52.7	50.0	5.4	20.0
1,2,3-Trichlorobenzene	Ave	0.6799	0.7811	0.3000	57.4	50.0	14.9	20.0
Dibromofluoromethane (Surr)	Ave	0.2230	0.2426	0.0100	54.4	50.0	8.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3558	0.3010	0.0100	42.3	50.0	-15.4	20.0
Toluene-d8 (Surr)	Ave	4.651	4.461	0.0100	48.0	50.0	-4.1	20.0
4-Bromofluorobenzene (Surr)	Ave	1.155	1.026	0.0100	44.4	50.0	-11.1	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12149.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 17-May-2024 19:59:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Operator ID: CF Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub62

Method: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 17-May-2024 21:51:02 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1678

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.595	4.595	0.000	99	1575605	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.073	7.073	0.000	88	365387	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.273	9.273	0.000	95	580499	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.109	4.109	0.000	93	382291	50.0	54.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.363	4.363	0.000	98	474207	50.0	42.3	
$ 6 Toluene-d8 (Surr)	98	5.823	5.823	0.000	94	1629818	50.0	48.0	
$ 7 4-Bromofluorobenzene (Surr)	95	8.158	8.158	0.000	87	595748	50.0	44.4	
9 Dichlorodifluoromethane	85	1.426	1.426	0.000	100	241123	50.0	39.7	
10 Chloromethane	50	1.639	1.639	0.000	100	317782	50.0	34.8	
11 Vinyl chloride	62	1.665	1.665	0.000	98	228859	50.0	31.7	
12 Bromomethane	94	1.908	1.908	0.000	97	38728	50.0	16.8	
13 Chloroethane	64	1.983	1.983	0.000	99	113591	50.0	25.1	
14 Dichlorofluoromethane	67	2.144	2.144	0.000	99	355115	50.0	28.6	
15 Trichlorofluoromethane	101	2.170	2.170	0.000	99	256832	50.0	27.2	
18 Ethyl ether	59	2.373	2.373	0.000	94	336511	50.0	41.5	
19 Acrolein	56	2.474	2.474	0.000	100	1000870	493.8	488.5	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.537	2.537	0.000	95	248626	50.0	61.4	
21 1,1-Dichloroethene	96	2.545	2.545	0.000	96	303146	50.0	51.0	
22 Acetone	43	2.578	2.578	0.000	99	1138230	200.0	144.2	
23 Iodomethane	142	2.657	2.657	0.000	100	175352	50.0	22.8	
25 Carbon disulfide	76	2.713	2.713	0.000	99	839004	50.0	45.9	
26 Methyl acetate	43	2.784	2.784	0.000	98	1181315	100.0	75.5	
16 3-Chloro-1-propene	41	2.795	2.795	0.000	90	576046	50.0	38.2	
28 Methylene Chloride	84	2.889	2.889	0.000	96	366925	50.0	43.0	
29 2-Methyl-2-propanol	59	2.945	2.945	0.000	99	1978062	500.0	482.1	
30 Acrylonitrile	53	3.046	3.046	0.000	98	2981373	500.0	415.2	
31 Methyl tert-butyl ether	73	3.057	3.057	0.000	96	1265476	50.0	43.8	
32 trans-1,2-Dichloroethene	96	3.069	3.069	0.000	96	329994	50.0	53.4	
33 Hexane	57	3.252	3.252	0.000	94	558706	50.0	41.5	
35 Vinyl acetate	43	3.360	3.360	0.000	97	2163594	100.0	106.8	
34 1,1-Dichloroethane	63	3.372	3.372	0.000	97	703179	50.0	44.1	
39 2-Butanone (MEK)	43	3.753	3.753	0.000	100	1894615	200.0	153.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 cis-1,2-Dichloroethene	96	3.768	3.768	0.000	86	390612	50.0	56.0	
41 2,2-Dichloropropane	77	3.772	3.772	0.000	86	595503	50.0	52.1	
44 sec-Butyl Alcohol	45	3.873	3.873	0.000	99	3472929	1200.0	948.8	
46 Chlorobromomethane	128	3.941	3.941	0.000	96	166925	50.0	54.6	
47 Tetrahydrofuran	42	3.948	3.948	0.000	89	716734	100.0	80.1	
48 Chloroform	83	3.997	3.997	0.000	95	670707	50.0	48.3	
49 1,1,1-Trichloroethane	97	4.124	4.124	0.000	99	575406	50.0	50.6	
50 Cyclohexane	56	4.176	4.176	0.000	92	729789	50.0	42.2	
51 Carbon tetrachloride	117	4.236	4.236	0.000	94	477024	50.0	54.7	
52 1,1-Dichloropropene	75	4.240	4.240	0.000	95	520084	50.0	47.3	
53 Isobutyl alcohol	41	4.281	4.281	0.000	94	1351375	1250.0	1001.9	
54 Benzene	78	4.382	4.382	0.000	98	1579574	50.0	49.0	
55 1,2-Dichloroethane	62	4.416	4.416	0.000	98	566613	50.0	41.8	
57 n-Heptane	43	4.573	4.573	0.000	94	557059	50.0	42.5	
59 Trichloroethene	95	4.865	4.865	0.000	98	392091	50.0	46.5	
60 2-Pentanone	43	4.977	4.977	0.000	99	2660242	160.0	117.0	
61 Methylcyclohexane	55	5.041	5.041	0.000	95	572357	50.0	43.3	
62 1,2-Dichloropropane	63	5.059	5.059	0.000	96	435710	50.0	44.3	
64 1,4-Dioxane	88	5.127	5.127	0.000	95	147513	1000.0	782.4	
65 Dibromomethane	93	5.134	5.134	0.000	97	252834	50.0	52.1	
66 Dichlorobromomethane	83	5.258	5.258	0.000	99	534850	50.0	49.9	
68 2-Chloroethyl vinyl ether	63	5.467	5.467	0.000	92	325254	50.0	40.4	
69 cis-1,3-Dichloropropene	75	5.606	5.606	0.000	94	655865	50.0	44.4	
70 4-Methyl-2-pentanone (MIBK)	43	5.707	5.707	0.000	97	3480875	200.0	150.5	
71 Toluene	91	5.879	5.879	0.000	98	1687289	50.0	53.0	
72 trans-1,3-Dichloropropene	75	6.066	6.066	0.000	96	646833	50.0	49.6	
73 Ethyl methacrylate	69	6.092	6.092	0.000	91	729687	50.0	40.0	
74 1,1,2-Trichloroethane	97	6.231	6.231	0.000	93	390955	50.0	54.3	
75 Tetrachloroethene	164	6.313	6.313	0.000	98	321199	50.0	56.5	
76 1,3-Dichloropropane	76	6.373	6.373	0.000	94	697068	50.0	44.9	
77 2-Hexanone	43	6.403	6.403	0.000	97	2917799	200.0	131.7	
78 Chlorodibromomethane	129	6.560	6.560	0.000	90	411429	50.0	52.3	
79 Ethylene Dibromide	107	6.672	6.672	0.000	98	411274	50.0	51.0	
80 1-Chlorohexane	91	7.069	7.069	0.000	97	431126	40.0	37.5	
81 Chlorobenzene	112	7.099	7.099	0.000	92	1040285	50.0	50.2	
82 1,1,1,2-Tetrachloroethane	131	7.170	7.170	0.000	95	374839	50.0	51.0	
83 Ethylbenzene	106	7.181	7.181	0.000	99	564534	50.0	51.2	
84 m-Xylene & p-Xylene	106	7.297	7.297	0.000	99	700774	50.0	51.7	
85 o-Xylene	106	7.653	7.653	0.000	97	694033	50.0	51.0	
86 Styrene	104	7.672	7.672	0.000	95	1179197	50.0	53.2	
87 Bromoform	173	7.844	7.844	0.000	96	302941	50.0	55.1	
88 Isopropylbenzene	105	7.990	7.990	0.000	96	1836552	50.0	46.6	
89 Cyclohexanone	55	8.079	8.079	0.000	95	1772802	1500.0	1143.6	
91 1,1,2,2-Tetrachloroethane	83	8.282	8.282	0.000	96	627847	50.0	41.3	
92 Bromobenzene	156	8.296	8.296	0.000	96	432052	50.0	55.5	
93 trans-1,4-Dichloro-2-butene	53	8.323	8.323	0.000	86	207813	50.0	31.2	
94 1,2,3-Trichloropropane	110	8.338	8.338	0.000	85	214232	50.0	43.9	
95 N-Propylbenzene	120	8.383	8.383	0.000	99	472730	50.0	50.2	
96 2-Chlorotoluene	126	8.472	8.472	0.000	95	401415	50.0	52.7	
97 1,3,5-Trimethylbenzene	105	8.558	8.558	0.000	94	1426532	50.0	45.9	
98 4-Chlorotoluene	126	8.592	8.592	0.000	99	401320	50.0	51.8	
99 tert-Butylbenzene	119	8.858	8.858	0.000	94	1251490	50.0	47.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 1,2,4-Trimethylbenzene	105	8.918	8.918	0.000	98	1420448	50.0	45.9	
101 sec-Butylbenzene	134	9.075	9.075	0.000	95	360120	50.0	53.5	
102 1,3-Dichlorobenzene	146	9.195	9.195	0.000	98	796483	50.0	53.3	
103 4-Isopropyltoluene	119	9.225	9.225	0.000	97	1481159	50.0	47.8	
104 1,4-Dichlorobenzene	146	9.296	9.296	0.000	94	809050	50.0	53.1	
106 n-Butylbenzene	91	9.625	9.625	0.000	98	1316712	50.0	45.9	
107 1,2-Dichlorobenzene	146	9.644	9.644	0.000	96	734211	50.0	50.6	
108 1,2-Dibromo-3-Chloropropane	157	10.415	10.415	0.000	84	207086	50.0	52.3	
110 1,2,4-Trichlorobenzene	180	11.230	11.230	0.000	94	468972	50.0	58.1	
111 Hexachlorobutadiene	225	11.373	11.373	0.000	97	218165	50.0	58.1	
112 Naphthalene	128	11.489	11.489	0.000	97	1551089	50.0	52.7	
113 1,2,3-Trichlorobenzene	180	11.709	11.709	0.000	95	453440	50.0	57.4	
S 115 1,2-Dichloroethene, Total	1				0		100.0	109.4	
S 116 1,3-Dichloropropene, Total	1				0		100.0	93.9	
S 117 Xylenes, Total	106				0		100.0	102.6	
S 119 Trihalomethanes, Total	1				0		200.0	205.6	

Reagents:

MV-MegaMain B_00102	Amount Added: 25.00	Units: uL	
MV-Gas B_00162	Amount Added: 10.00	Units: uL	
mv-IS_SS_00079	Amount Added: 5.00	Units: uL	Run Reagent

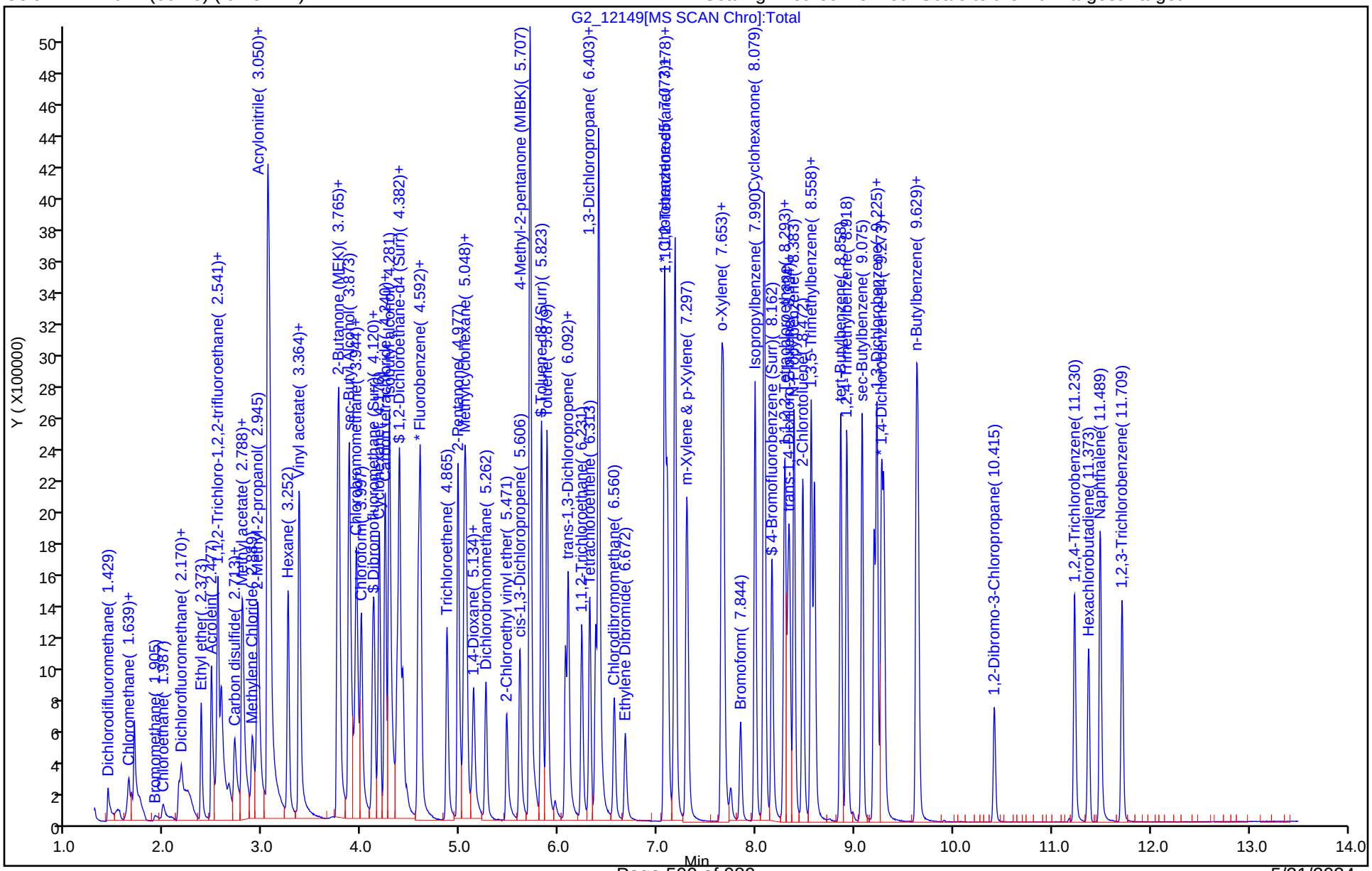
Report Date: 17-May-2024 21:51:03 Chrom Revision: 2.3 14-May-2024 14:23:08

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12149.D

Injection Date:	17-May-2024 19:59:30	Instrument ID:	VMS_G2	Operator ID:	CF
Lims ID:	CCV			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



5/21/2024
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FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653922/3 Calibration Date: 05/17/2024 20:19

Instrument ID: VMS_G2 Calib Start Date: 05/08/2024 23:59

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 05/09/2024 02:43

Lab File ID: G2_12150.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
Dibromofluoromethane (Surr)	Ave	0.2230	0.2431	0.0100	54.5	50.0	9.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3558	0.3029	0.0100	42.6	50.0	-14.9	20.0
Toluene-d8 (Surr)	Ave	4.651	4.242	0.0100	45.6	50.0	-8.8	20.0
4-Bromofluorobenzene (Surr)	Ave	1.155	1.074	0.0100	46.5	50.0	-7.0	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12150.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 17-May-2024 20:19:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Operator ID: CF Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub218

Method: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 17-May-2024 21:51:04 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1678

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.595	4.595	0.000	98	1541668	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.073	7.073	0.000	88	368546	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.270	9.270	0.000	97	573313	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.113	4.113	0.000	93	374768	50.0	54.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.363	4.363	0.000	97	466978	50.0	42.6	
$ 6 Toluene-d8 (Surr)	98	5.823	5.823	0.000	94	1563300	50.0	45.6	
$ 7 4-Bromofluorobenzene (Surr)	95	8.158	8.158	0.000	86	615822	50.0	46.5	
17 Ethanol	45	2.339	2.339	0.000	100	420217	1500.0	1269.3	
24 Isopropyl alcohol	45	2.676	2.676	0.000	99	485840	250.0	211.9	
27 Acetonitrile	41	2.788	2.788	0.000	100	547750	250.0	194.2	
36 Isopropyl ether	87	3.379	3.379	0.000	96	189576	25.0	28.4	
37 2-Chloro-1,3-butadiene	53	3.424	3.424	0.000	92	325471	25.0	21.5	
38 Tert-butyl ethyl ether	59	3.630	3.630	0.000	99	761913	25.0	23.6	
42 Ethyl acetate	43	3.772	3.772	0.000	100	920488	50.0	41.2	
43 Propionitrile	54	3.806	3.806	0.000	99	607099	250.0	189.9	
45 Methacrylonitrile	41	3.903	3.903	0.000	94	2577862	250.0	221.3	
56 Tert-amyl methyl ether	73	4.457	4.457	0.000	99	732349	25.0	24.4	
58 n-Butanol	56	4.771	4.771	0.000	88	514089	625.0	539.5	
63 Methyl methacrylate	100	5.086	5.086	0.000	93	184877	50.0	54.5	
67 2-Nitropropane	41	5.430	5.430	0.000	99	246004	50.0	44.3	
90 cis-1,4-Dichloro-2-butene	53	8.050	8.050	0.000	90	226828	50.0	32.9	
105 1,2,3-Trimethylbenzene	105	9.318	9.318	0.000	99	794382	25.0	24.8	
109 1,3,5-Trichlorobenzene	180	10.606	10.606	0.000	97	281013	25.0	30.2	

Reagents:

MV-Supp B_00071 Amount Added: 25.00 Units: uL
mv-IS_SS_00079 Amount Added: 5.00 Units: uL Run Reagent

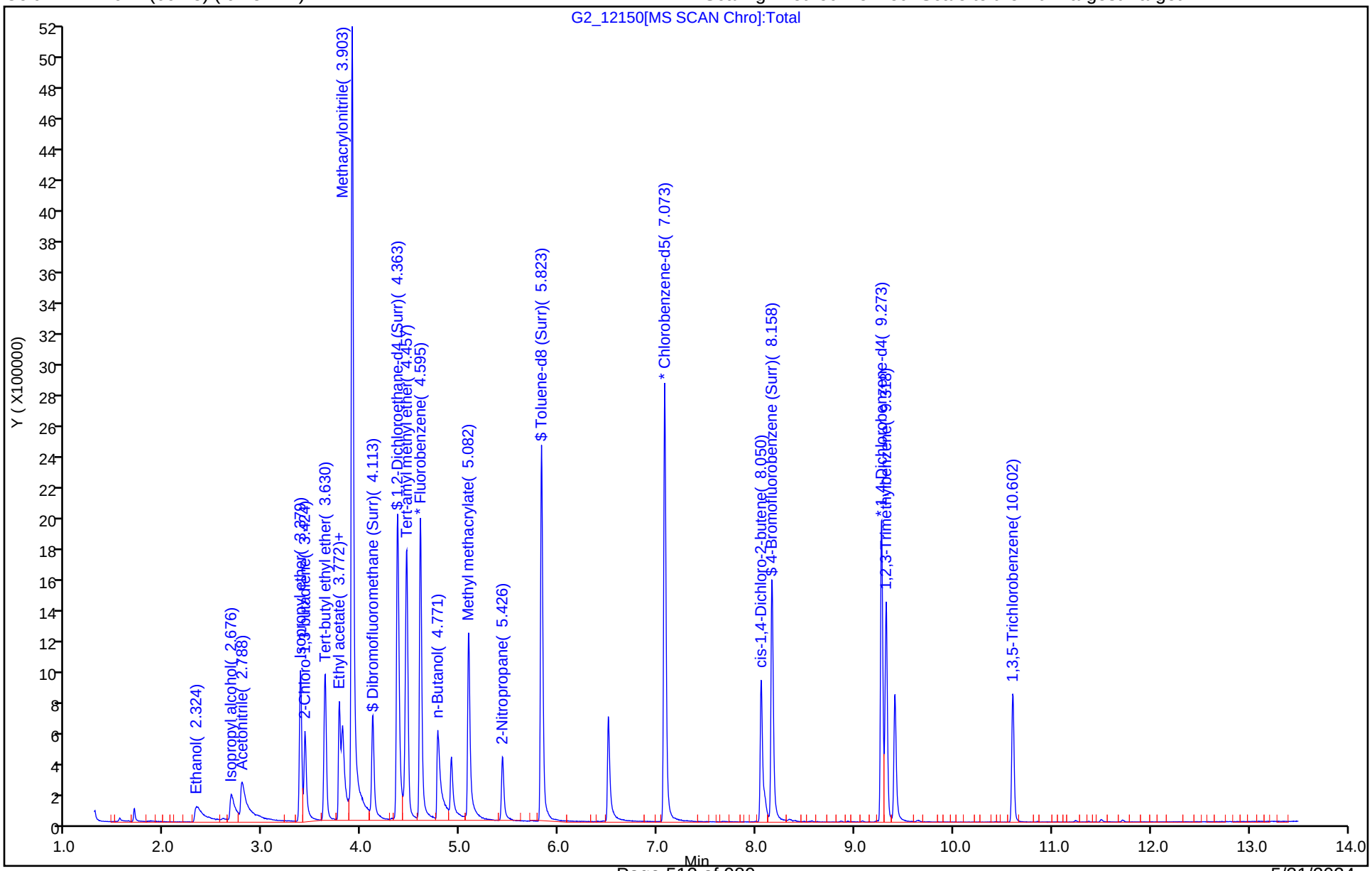
Report Date: 17-May-2024 21:51:04 Chrom Revision: 2.3 14-May-2024 14:23:08

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12150.D

Injection Date:	17-May-2024 20:19:30	Instrument ID:	VMS_G2	Operator ID:	CF
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653922/3 Calibration Date: 05/17/2024 20:19

Instrument ID: VMS_G2 Calib Start Date: 05/09/2024 04:05

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 05/09/2024 06:30

Lab File ID: G2_12150.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
Ethanol	Lin1		0.0091*	0.0100	1270	1500	-15.4	20.0
Isopropyl alcohol	Lin1		0.0630	0.0100	212	250	-15.3	20.0
Acetonitrile	Ave	0.0915	0.0711	0.0100	194	250	-22.3*	20.0
Isopropyl ether	Ave	0.2163	0.2459	0.0100	28.4	25.0	13.7	20.0
2-Chloro-1,3-butadiene	Lin2		0.4222	0.0100	21.5	25.0	-14.1	20.0
Tert-butyl ethyl ether	Ave	1.047	0.9884	0.0100	23.6	25.0	-5.6	20.0
Ethyl acetate	Ave	0.7252	0.5971	0.0100	41.2	50.0	-17.7	20.0
Propionitrile	Lin2		0.0788	0.0100	190	250	-24.1*	20.0
Methacrylonitrile	Ave	0.3779	0.3344	0.0100	221	250	-11.5	20.0
Tert-amyl methyl ether	Ave	0.9716	0.9501	0.0100	24.4	25.0	-2.2	20.0
n-Butanol	Lin1		0.0267	0.0100	539	625	-13.7	20.0
Methyl methacrylate	Lin2		0.1199	0.0100	54.5	50.0	9.1	20.0
2-Nitropropane	Lin1		0.1596	0.0100	44.3	50.0	-11.3	20.0
cis-1,4-Dichloro-2-butene	Ave	0.6020	0.3956	0.0100	32.9	50.0	-34.3*	20.0
1,2,3-Trimethylbenzene	Ave	2.796	2.771	0.0100	24.8	25.0	-0.9	20.0
1,3,5-Trichlorobenzene	Ave	0.8111	0.9803	0.0100	30.2	25.0	20.9*	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12150.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 17-May-2024 20:19:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Operator ID: CF Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub218

Method: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 17-May-2024 21:51:04 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1678

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.595	4.595	0.000	98	1541668	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.073	7.073	0.000	88	368546	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.270	9.270	0.000	97	573313	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.113	4.113	0.000	93	374768	50.0	54.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.363	4.363	0.000	97	466978	50.0	42.6	
$ 6 Toluene-d8 (Surr)	98	5.823	5.823	0.000	94	1563300	50.0	45.6	
$ 7 4-Bromofluorobenzene (Surr)	95	8.158	8.158	0.000	86	615822	50.0	46.5	
17 Ethanol	45	2.339	2.339	0.000	100	420217	1500.0	1269.3	
24 Isopropyl alcohol	45	2.676	2.676	0.000	99	485840	250.0	211.9	
27 Acetonitrile	41	2.788	2.788	0.000	100	547750	250.0	194.2	
36 Isopropyl ether	87	3.379	3.379	0.000	96	189576	25.0	28.4	
37 2-Chloro-1,3-butadiene	53	3.424	3.424	0.000	92	325471	25.0	21.5	
38 Tert-butyl ethyl ether	59	3.630	3.630	0.000	99	761913	25.0	23.6	
42 Ethyl acetate	43	3.772	3.772	0.000	100	920488	50.0	41.2	
43 Propionitrile	54	3.806	3.806	0.000	99	607099	250.0	189.9	
45 Methacrylonitrile	41	3.903	3.903	0.000	94	2577862	250.0	221.3	
56 Tert-amyl methyl ether	73	4.457	4.457	0.000	99	732349	25.0	24.4	
58 n-Butanol	56	4.771	4.771	0.000	88	514089	625.0	539.5	
63 Methyl methacrylate	100	5.086	5.086	0.000	93	184877	50.0	54.5	
67 2-Nitropropane	41	5.430	5.430	0.000	99	246004	50.0	44.3	
90 cis-1,4-Dichloro-2-butene	53	8.050	8.050	0.000	90	226828	50.0	32.9	
105 1,2,3-Trimethylbenzene	105	9.318	9.318	0.000	99	794382	25.0	24.8	
109 1,3,5-Trichlorobenzene	180	10.606	10.606	0.000	97	281013	25.0	30.2	

Reagents:

MV-Supp B_00071 Amount Added: 25.00 Units: uL
mv-IS_SS_00079 Amount Added: 5.00 Units: uL Run Reagent

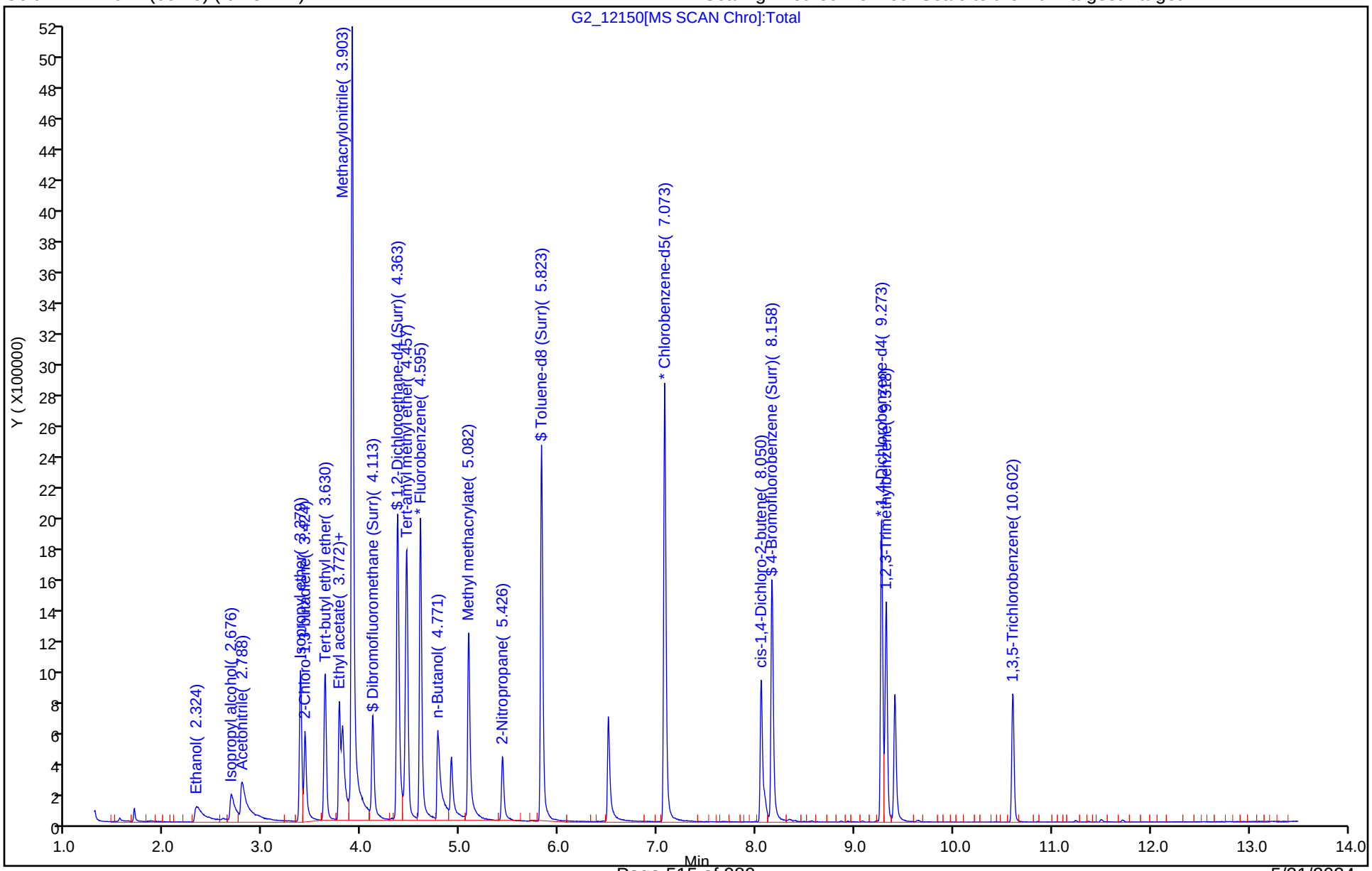
Report Date: 17-May-2024 21:51:04 Chrom Revision: 2.3 14-May-2024 14:23:08

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12150.D

Injection Date:	17-May-2024 20:19:30	Instrument ID:	VMS_G2	Operator ID:	CF
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



5/21/2024
3:57:23 PM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCVC 280-653922/32 | Calibration Date: 05/18/2024 04:38

Instrument ID: VMS_G2 | Calib Start Date: 05/08/2024 23:59

GC Column: DB-624 (60.25) ID: 0.25(mm) | Calib End Date: 05/09/2024 02:43

Lab File ID: G2_12174.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	0.1927	0.1123	0.1000	29.1	50.0	-41.7	50.0
Chloromethane	Ave	0.2899	0.1770	0.1000	30.5	50.0	-38.9	50.0
Vinyl chloride	Ave	0.2295	0.1283	0.0100	27.9	50.0	-44.1	50.0
Bromomethane	Ave	0.0734	0.0265	0.0100	18.1	50.0	-63.9*	50.0
Chloroethane	Ave	0.1436	0.0726	0.0100	25.3	50.0	-49.4	50.0
Dichlorofluoromethane	Ave	0.3939	0.2122	0.0100	26.9	50.0	-46.1	50.0
Trichlorofluoromethane	Ave	0.3000	0.1362	0.0100	22.7	50.0	-54.6*	50.0
Ethyl ether	Ave	0.2570	0.2139	0.0100	41.6	50.0	-16.8	50.0
Acrolein	Ave	0.0650	0.0468	0.0010	355	494	-28.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1285	0.1231	0.0500	47.9	50.0	-4.2	50.0
1,1-Dichloroethene	Ave	0.1885	0.1678	0.0600	44.5	50.0	-11.0	50.0
Acetone	Ave	0.2504	0.1686	0.0100	135	200	-32.7	50.0
Iodomethane	Ave	0.2438	0.1344	0.0100	27.6	50.0	-44.9	50.0
Carbon disulfide	Ave	0.5800	0.4588	0.1000	39.6	50.0	-20.9	50.0
Methyl acetate	Lin2		0.3683	0.0100	74.2	100	-25.8	50.0
3-Chloro-1-propene	Ave	0.4786	0.3442	0.0100	36.0	50.0	-28.1	50.0
Methylene Chloride	Ave	0.2710	0.2242	0.0100	41.4	50.0	-17.3	50.0
2-Methyl-2-propanol	Ave	0.1302	0.1158	0.0010	445	500	-11.1	50.0
Acrylonitrile	Lin2		0.1858	0.0100	408	500	-18.5	50.0
Methyl tert-butyl ether	Ave	0.9160	0.7732	0.1000	42.2	50.0	-15.6	50.0
trans-1,2-Dichloroethene	Ave	0.1960	0.1940	0.1000	49.5	50.0	-1.1	50.0
Hexane	Ave	1.844	1.134	0.0100	30.7	50.0	-38.5	50.0
Vinyl acetate	Ave	0.6430	0.4592	0.0100	71.4	100	-28.6	50.0
1,1-Dichloroethane	Ave	0.5060	0.4115	0.1000	40.7	50.0	-18.7	50.0
2-Butanone (MEK)	Lin2		0.2845	0.0100	145	200	-27.5	50.0
cis-1,2-Dichloroethene	Ave	0.2215	0.2278	0.1000	51.4	50.0	2.9	50.0
2,2-Dichloropropane	Ave	0.3625	0.2854	0.0100	39.4	50.0	-21.3	50.0
sec-Butyl Alcohol	Lin2		0.0903	0.0100	933	1200	-22.2	50.0
Chlorobromomethane	Lin1		0.1030	0.0500	53.1	50.0	6.2	50.0
Tetrahydrofuran	Ave	0.2838	0.1987	0.0010	70.0	100	-30.0	50.0
Chloroform	Ave	0.4405	0.3923	0.2000	44.5	50.0	-10.9	50.0
1,1,1-Trichloroethane	Ave	0.3608	0.3210	0.0500	44.5	50.0	-11.0	50.0
Cyclohexane	Ave	0.5488	0.3574	0.0100	32.6	50.0	-34.9	50.0
1,1-Dichloropropene	Lin2		0.2897	0.0100	41.5	50.0	-16.9	50.0
Carbon tetrachloride	Ave	0.2769	0.2574	0.1000	46.5	50.0	-7.0	50.0
Isobutyl alcohol	Lin1		0.0334	0.0010	976	1250	-21.9	50.0
Benzene	Ave	1.023	0.9264	0.2000	45.3	50.0	-9.5	50.0
1,2-Dichloroethane	Ave	0.4298	0.3289	0.0700	38.3	50.0	-23.5	50.0
n-Heptane	Ave	0.4157	0.2493		30.0	50.0	-40.0	
Trichloroethene	Ave	1.155	0.998	0.2000	43.2	50.0	-13.6	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCVC 280-653922/32 | Calibration Date: 05/18/2024 04:38

Instrument ID: VMS_G2 | Calib Start Date: 05/08/2024 23:59

GC Column: DB-624 (60.25) ID: 0.25(mm) | Calib End Date: 05/09/2024 02:43

Lab File ID: G2_12174.D | Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Pentanone	Lin2		0.5334	0.0010	118	160	-26.1	50.0
Methylcyclohexane	Ave	0.4194	0.2801	0.0500	33.4	50.0	-33.2	50.0
1,2-Dichloropropane	Ave	0.3120	0.2586	0.1000	41.4	50.0	-17.1	50.0
1,4-Dioxane	Lin2		0.0056	0.0010	931	1000	-6.9	50.0
Dibromomethane	Ave	0.1541	0.1576	0.0100	51.1	50.0	2.3	50.0
Dichlorobromomethane	Ave	0.3402	0.3258	0.2000	47.9	50.0	-4.2	50.0
2-Chloroethyl vinyl ether	Lin2		0.2029	0.0100	39.7	50.0	-20.5	50.0
cis-1,3-Dichloropropene	Ave	2.023	1.651	0.2000	40.8	50.0	-18.4	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7339	0.5380	0.0300	147	200	-26.7	50.0
Toluene	Ave	1.011	0.9862	0.3000	48.8	50.0	-2.4	50.0
trans-1,3-Dichloropropene	Ave	0.4141	0.3782	0.2000	45.7	50.0	-8.7	50.0
Ethyl methacrylate	Lin2		1.917	0.0100	38.4	50.0	-23.2	50.0
1,1,2-Trichloroethane	Ave	0.2285	0.2405	0.1000	52.6	50.0	5.3	50.0
Tetrachloroethene	Lin2		0.7867	0.1000	50.6	50.0	1.2	50.0
1,3-Dichloropropane	Ave	2.125	1.852	0.0100	43.6	50.0	-12.8	50.0
2-Hexanone	Lin2		1.897	0.0100	125	200	-37.4	50.0
Chlorodibromomethane	Ave	1.077	1.101	0.1000	51.1	50.0	2.2	50.0
Ethylene Dibromide	Ave	1.102	1.100	0.1000	49.9	50.0	-0.2	50.0
1-Chlorohexane	Ave	1.574	1.237	0.0100	31.4	40.0	-21.4	50.0
Chlorobenzene	Ave	2.836	2.669	0.3000	47.1	50.0	-5.9	50.0
1,1,1,2-Tetrachloroethane	Ave	1.006	0.9878	0.0100	49.1	50.0	-1.8	50.0
Ethylbenzene	Ave	1.508	1.424	0.3000	47.2	50.0	-5.6	50.0
m-Xylene & p-Xylene	Ave	1.855	1.814	0.1000	48.9	50.0	-2.3	50.0
o-Xylene	Ave	1.864	1.781	0.2000	47.8	50.0	-4.5	50.0
Styrene	Ave	3.033	3.026	0.2000	49.9	50.0	-0.2	50.0
Bromoform	Ave	0.7517	0.8287	0.1000	55.1	50.0	10.2	50.0
Isopropylbenzene	Ave	3.394	2.824	0.3000	41.6	50.0	-16.8	50.0
Cyclohexanone	Ave	0.2121	0.1535	0.0010	1090	1500	-27.6	50.0
1,1,2,2-Tetrachloroethane	Ave	1.309	1.021	0.3000	39.0	50.0	-22.0	50.0
Bromobenzene	Ave	0.6709	0.7010	0.0100	52.2	50.0	4.5	50.0
trans-1,4-Dichloro-2-butene	Ave	0.5740	0.2846	0.0100	24.8	50.0	-50.4*	50.0
1,2,3-Trichloropropane	Ave	0.4207	0.3641	0.0100	43.3	50.0	-13.5	50.0
N-Propylbenzene	Ave	0.8108	0.7368	0.0100	45.4	50.0	-9.1	50.0
2-Chlorotoluene	Ave	0.6564	0.6382	0.0100	48.6	50.0	-2.8	50.0
1,3,5-Trimethylbenzene	Ave	2.677	2.209	0.0100	41.2	50.0	-17.5	50.0
4-Chlorotoluene	Ave	0.6678	0.6491	0.0100	48.6	50.0	-2.8	50.0
tert-Butylbenzene	Ave	2.260	1.917	0.0100	42.4	50.0	-15.2	50.0
1,2,4-Trimethylbenzene	Ave	2.668	2.272	0.3000	42.6	50.0	-14.8	50.0
sec-Butylbenzene	Ave	0.5800	0.5564	0.0100	48.0	50.0	-4.1	50.0
1,3-Dichlorobenzene	Ave	1.286	1.276	0.5000	49.6	50.0	-0.8	50.0
4-Isopropyltoluene	Ave	2.667	2.268	0.0100	42.5	50.0	-15.0	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCVC 280-653922/32 Calibration Date: 05/18/2024 04:38

Instrument ID: VMS_G2 Calib Start Date: 05/08/2024 23:59

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 05/09/2024 02:43

Lab File ID: G2_12174.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
1,4-Dichlorobenzene	Ave	1.313	1.290	0.5000	49.1	50.0	-1.8	50.0
n-Butylbenzene	Ave	2.470	1.931	0.0100	39.1	50.0	-21.8	50.0
1,2-Dichlorobenzene	Ave	1.249	1.245	0.5000	49.8	50.0	-0.3	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.3409	0.3521	0.0100	51.6	50.0	3.3	50.0
1,2,4-Trichlorobenzene	Ave	0.6951	0.7606	0.2000	54.7	50.0	9.4	50.0
Hexachlorobutadiene	Ave	0.3237	0.3239	0.0100	50.0	50.0	0.0	50.0
Naphthalene	Ave	2.536	2.577	0.0100	50.8	50.0	1.6	50.0
1,2,3-Trichlorobenzene	Ave	0.6799	0.7304	0.3000	53.7	50.0	7.4	50.0
Dibromofluoromethane (Surr)	Ave	0.2230	0.2447	0.0100	54.9	50.0	9.7	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3558	0.2887	0.0100	40.6	50.0	-18.9	50.0
Toluene-d8 (Surr)	Ave	4.651	4.411	0.0100	47.4	50.0	-5.2	50.0
4-Bromofluorobenzene (Surr)	Ave	1.155	1.030	0.0100	44.6	50.0	-10.8	50.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12174.D
Lims ID: ccvc
Client ID:
Sample Type: CCVC
Inject. Date: 18-May-2024 04:38:30 ALS Bottle#: 20 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVC
Operator ID: CF Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub62

Method: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-May-2024 15:16:23 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1654

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.595	4.595	0.000	99	1642421	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.073	7.073	0.000	87	378882	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.269	9.270	-0.001	95	603052	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.109	4.113	-0.004	94	401929	50.0	54.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.363	4.363	0.000	97	474204	50.0	40.6	
$ 6 Toluene-d8 (Surr)	98	5.823	5.823	0.000	93	1671085	50.0	47.4	
$ 7 4-Bromofluorobenzene (Surr)	95	8.158	8.158	0.000	89	621330	50.0	44.6	
9 Dichlorodifluoromethane	85	1.429	1.426	0.003	100	184487	50.0	29.1	
10 Chloromethane	50	1.631	1.639	-0.008	100	290758	50.0	30.5	
11 Vinyl chloride	62	1.665	1.665	0.000	98	210655	50.0	27.9	
12 Bromomethane	94	1.912	1.908	0.004	93	43527	50.0	18.1	
13 Chloroethane	64	1.991	1.983	0.008	100	119320	50.0	25.3	
14 Dichlorofluoromethane	67	2.152	2.144	0.008	99	348480	50.0	26.9	
15 Trichlorofluoromethane	101	2.178	2.170	0.008	99	223746	50.0	22.7	
18 Ethyl ether	59	2.372	2.373	-0.001	94	351249	50.0	41.6	
19 Acrolein	56	2.477	2.474	0.003	100	758993	493.8	355.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.541	2.537	0.004	96	202152	50.0	47.9	
21 1,1-Dichloroethene	96	2.545	2.545	0.000	98	275666	50.0	44.5	
22 Acetone	43	2.574	2.578	-0.004	100	1107751	200.0	134.7	
23 Iodomethane	142	2.657	2.657	0.000	100	220763	50.0	27.6	
25 Carbon disulfide	76	2.713	2.713	0.000	99	753499	50.0	39.6	
26 Methyl acetate	43	2.784	2.784	0.000	98	1209921	100.0	74.2	
16 3-Chloro-1-propene	41	2.795	2.795	0.000	91	565338	50.0	36.0	
28 Methylene Chloride	84	2.889	2.889	0.000	95	368228	50.0	41.4	
29 2-Methyl-2-propanol	59	2.941	2.945	-0.004	99	1901264	500.0	444.5	
30 Acrylonitrile	53	3.046	3.046	0.000	99	3050932	500.0	407.6	
31 Methyl tert-butyl ether	73	3.057	3.057	0.000	95	1269907	50.0	42.2	
32 trans-1,2-Dichloroethene	96	3.072	3.069	0.003	96	318597	50.0	49.5	
33 Hexane	57	3.256	3.252	0.004	92	429525	50.0	30.7	
35 Vinyl acetate	43	3.364	3.360	0.004	97	1508362	100.0	71.4	
34 1,1-Dichloroethane	63	3.372	3.372	0.000	97	675872	50.0	40.7	
39 2-Butanone (MEK)	43	3.750	3.753	-0.003	100	1868936	200.0	145.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 cis-1,2-Dichloroethene	96	3.768	3.768	0.000	86	374206	50.0	51.4	
41 2,2-Dichloropropane	77	3.772	3.772	0.000	90	468816	50.0	39.4	
44 sec-Butyl Alcohol	45	3.869	3.873	-0.004	99	3559919	1200.0	933.3	
46 Chlorobromomethane	128	3.940	3.941	-0.001	97	169238	50.0	53.1	
47 Tetrahydrofuran	42	3.948	3.948	0.000	89	652710	100.0	70.0	
48 Chloroform	83	3.997	3.997	0.000	94	644316	50.0	44.5	
49 1,1,1-Trichloroethane	97	4.124	4.124	0.000	98	527275	50.0	44.5	
50 Cyclohexane	56	4.180	4.176	0.004	91	586974	50.0	32.6	
51 Carbon tetrachloride	117	4.236	4.236	0.000	98	422841	50.0	46.5	
52 1,1-Dichloropropene	75	4.236	4.240	-0.004	96	475859	50.0	41.5	
53 Isobutyl alcohol	41	4.277	4.281	-0.004	95	1371853	1250.0	976.0	
54 Benzene	78	4.386	4.382	0.004	97	1521501	50.0	45.3	
55 1,2-Dichloroethane	62	4.416	4.416	0.000	97	540161	50.0	38.3	
57 n-Heptane	43	4.577	4.573	0.004	93	409434	50.0	30.0	
59 Trichloroethene	95	4.865	4.865	0.000	98	378122	50.0	43.2	
60 2-Pentanone	43	4.973	4.977	-0.004	99	2803665	160.0	118.2	
61 Methylcyclohexane	55	5.041	5.041	0.000	91	460061	50.0	33.4	
62 1,2-Dichloropropane	63	5.063	5.059	0.004	96	424716	50.0	41.4	
64 1,4-Dioxane	88	5.123	5.127	-0.004	94	183427	1000.0	930.7	
65 Dibromomethane	93	5.134	5.134	0.000	96	258898	50.0	51.1	
66 Dichlorobromomethane	83	5.258	5.258	0.000	99	535058	50.0	47.9	
68 2-Chloroethyl vinyl ether	63	5.471	5.467	0.004	92	333199	50.0	39.7	
69 cis-1,3-Dichloropropene	75	5.606	5.606	0.000	95	625602	50.0	40.8	
70 4-Methyl-2-pentanone (MIBK)	43	5.707	5.707	0.000	97	3534280	200.0	146.6	
71 Toluene	91	5.879	5.879	0.000	98	1619823	50.0	48.8	
72 trans-1,3-Dichloropropene	75	6.066	6.066	0.000	95	621177	50.0	45.7	
73 Ethyl methacrylate	69	6.096	6.092	0.004	90	726362	50.0	38.4	
74 1,1,2-Trichloroethane	97	6.231	6.231	0.000	93	395069	50.0	52.6	
75 Tetrachloroethene	164	6.313	6.313	0.000	99	298049	50.0	50.6	
76 1,3-Dichloropropane	76	6.373	6.373	0.000	91	701762	50.0	43.6	
77 2-Hexanone	43	6.403	6.403	0.000	97	2875258	200.0	125.2	
78 Chlorodibromomethane	129	6.560	6.560	0.000	90	417237	50.0	51.1	
79 Ethylene Dibromide	107	6.672	6.672	0.000	98	416677	50.0	49.9	
80 1-Chlorohexane	91	7.069	7.069	0.000	96	374965	40.0	31.4	
81 Chlorobenzene	112	7.099	7.099	0.000	93	1011344	50.0	47.1	
82 1,1,1,2-Tetrachloroethane	131	7.170	7.170	0.000	95	374267	50.0	49.1	
83 Ethylbenzene	106	7.181	7.181	0.000	99	539477	50.0	47.2	
84 m-Xylene & p-Xylene	106	7.297	7.297	0.000	99	687135	50.0	48.9	
85 o-Xylene	106	7.649	7.653	-0.004	97	674672	50.0	47.8	
86 Styrene	104	7.671	7.672	-0.001	95	1146331	50.0	49.9	
87 Bromoform	173	7.840	7.844	-0.004	96	313988	50.0	55.1	
88 Isopropylbenzene	105	7.990	7.990	0.000	96	1703212	50.0	41.6	
89 Cyclohexanone	55	8.079	8.079	0.000	94	1744660	1500.0	1085.3	
91 1,1,2,2-Tetrachloroethane	83	8.281	8.282	-0.001	95	615590	50.0	39.0	
92 Bromobenzene	156	8.296	8.296	0.000	94	422745	50.0	52.2	
93 trans-1,4-Dichloro-2-butene	53	8.323	8.323	0.000	86	171638	50.0	24.8	
94 1,2,3-Trichloropropane	110	8.338	8.338	0.000	84	219585	50.0	43.3	
95 N-Propylbenzene	120	8.382	8.383	-0.001	99	444333	50.0	45.4	
96 2-Chlorotoluene	126	8.472	8.472	0.000	96	384841	50.0	48.6	
97 1,3,5-Trimethylbenzene	105	8.558	8.558	0.000	94	1331841	50.0	41.2	
98 4-Chlorotoluene	126	8.592	8.592	0.000	97	391426	50.0	48.6	
99 tert-Butylbenzene	119	8.858	8.858	0.000	94	1156338	50.0	42.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 1,2,4-Trimethylbenzene	105	8.918	8.918	0.000	98	1370416	50.0	42.6	
101 sec-Butylbenzene	134	9.075	9.075	0.000	95	335549	50.0	48.0	
102 1,3-Dichlorobenzene	146	9.195	9.195	-0.001	97	769681	50.0	49.6	
103 4-Isopropyltoluene	119	9.224	9.225	-0.001	97	1367435	50.0	42.5	
104 1,4-Dichlorobenzene	146	9.296	9.296	0.000	94	777881	50.0	49.1	
106 n-Butylbenzene	91	9.625	9.625	0.000	98	1164638	50.0	39.1	
107 1,2-Dichlorobenzene	146	9.644	9.644	0.000	97	750996	50.0	49.8	
108 1,2-Dibromo-3-Chloropropane	157	10.414	10.415	-0.001	85	212361	50.0	51.6	
110 1,2,4-Trichlorobenzene	180	11.230	11.230	0.000	94	458698	50.0	54.7	
111 Hexachlorobutadiene	225	11.372	11.373	-0.001	97	195335	50.0	50.0	
112 Naphthalene	128	11.488	11.489	-0.001	97	1554145	50.0	50.8	
113 1,2,3-Trichlorobenzene	180	11.709	11.709	0.000	95	440480	50.0	53.7	
S 115 1,2-Dichloroethene, Total	1				0		100.0	100.9	
S 116 1,3-Dichloropropene, Total	1				0		100.0	86.5	
S 117 Xylenes, Total	106				0		100.0	96.6	
S 118 Total BTEX	1				0			237.9	
S 119 Trihalomethanes, Total	1				0		200.0	198.7	

Reagents:

MV-MegaMain B_00102	Amount Added: 25.00	Units: uL	
MV-Gas B_00162	Amount Added: 10.00	Units: uL	
mv-IS_SS_00079	Amount Added: 5.00	Units: uL	Run Reagent

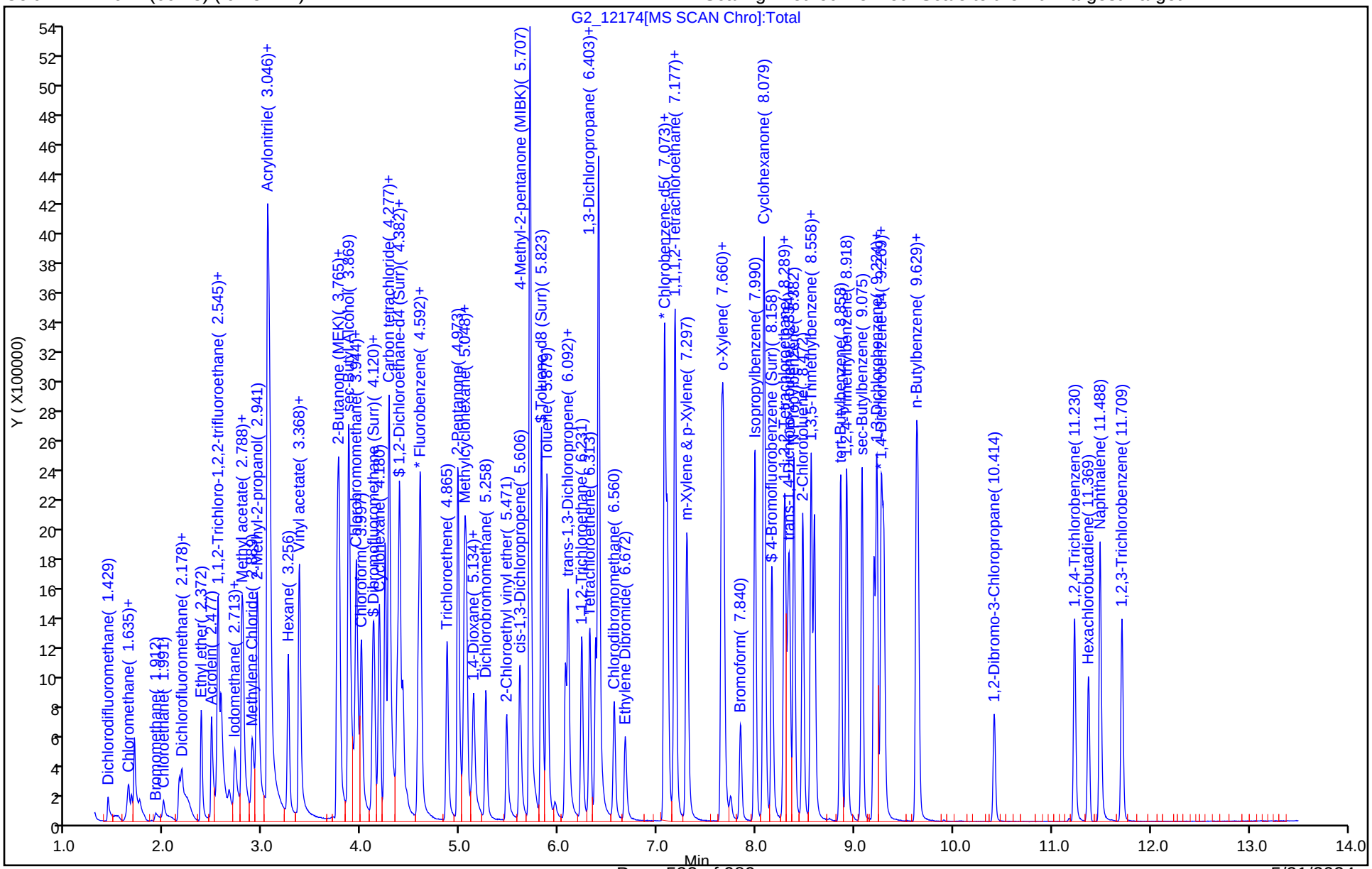
Report Date: 20-May-2024 15:16:23 Chrom Revision: 2.3 15-May-2024 08:18:50

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12174.D

Injection Date:	18-May-2024 04:38:30	Instrument ID:	VMS_G2	Operator ID:	CF
Lims ID:	ccvc			Worklist Smp#:	32
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11762.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	08-May-2024 23:17:30	ALS Bottle#:	100	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	rb				
Operator ID:	COULTER/CF	Instrument ID:	VMS_G2		
Method:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\AQ_VMSG2_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	09-May-2024 13:22:17	Calib Date:	09-May-2024 06:30:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1680				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	8.173	8.173	0.000	78	446917	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

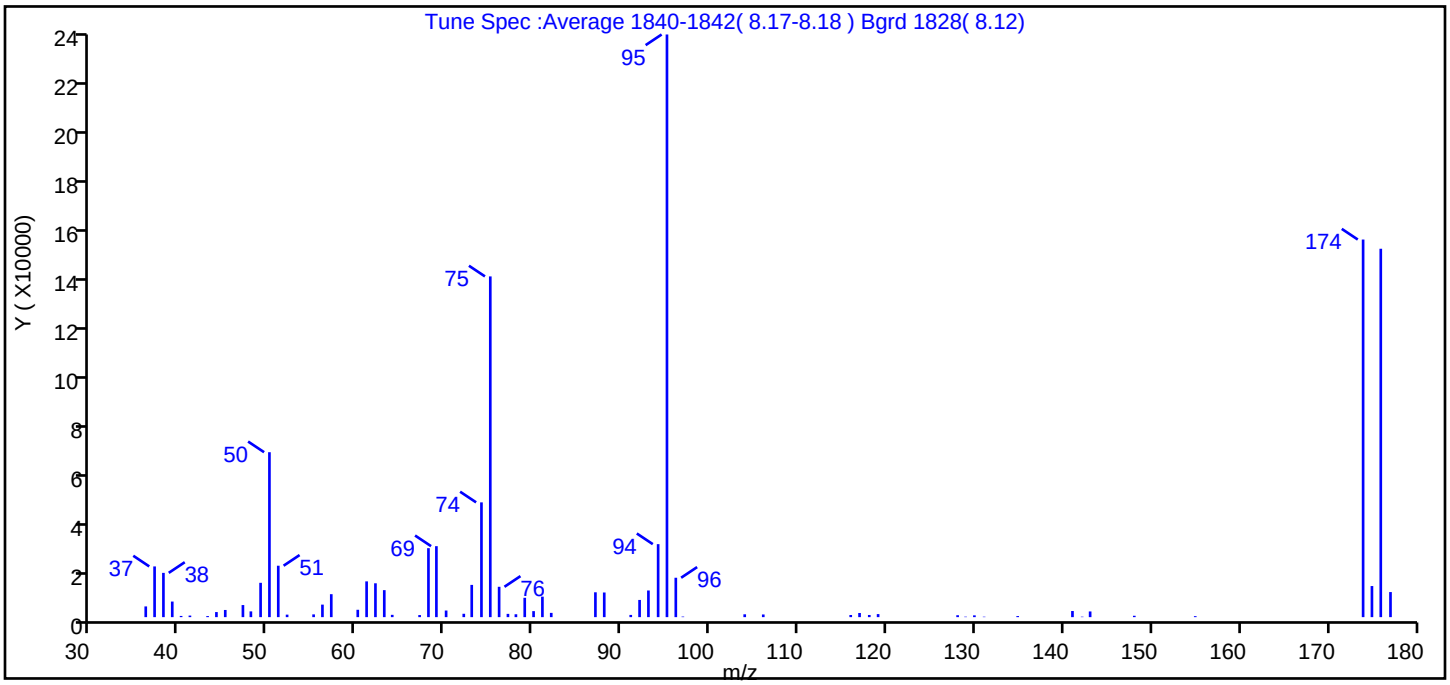
mv-Cent BFB_00007 Amount Added: 2.00 Units: uL

MS Tune Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11762.D
Injection Date: 08-May-2024 23:17:30 Instrument ID: VMS_G2
Lims ID: BFB
Client ID:
Operator ID: COULTER/CF ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	28.3
75	30 to 60% of m/z 95	58.5
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	64.8
175	5 to 9% of m/z 174	5.3 (8.2)
176	Greater than 95% but less than 101% of m/z 174	63.2 (97.6)
177	5 to 9% of m/z 176	4.3 (6.8)

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11762.D\AQ_VMSG2_8260.rslt\spectra.d
Injection Date: 08-May-2024 23:17:30
Spectrum: Tune Spec :Average 1840-1842(8.17-8.18) Bgrd 1828(8.12)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 67

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4244	57.00	9088	79.00	7655	118.00	858
37.00	20072	60.00	2915	80.00	2381	119.00	1209
38.00	17520	61.00	14157	81.00	8120	128.00	760
39.00	6170	62.00	13398	82.00	1688	129.00	182
40.00	478	63.00	10682	87.00	9836	130.00	709
41.00	620	64.00	914	88.00	9756	131.00	170
43.00	424	67.00	825	91.00	882	135.00	426
44.00	2012	68.00	27296	92.00	6809	141.00	2426
45.00	2841	69.00	28088	93.00	10547	142.00	180
47.00	4783	70.00	2620	94.00	28888	143.00	2253
48.00	2279	72.00	1335	95.00	230592	148.00	545
49.00	13586	73.00	12760	96.00	15592	155.00	384
50.00	65272	74.00	45424	97.00	220	174.00	149440
51.00	20352	75.00	134848	104.00	1127	175.00	12310
52.00	991	76.00	12012	106.00	1060	176.00	145792
55.00	1092	77.00	1298	116.00	851	177.00	9926
56.00	4958	78.00	1144	117.00	1644		

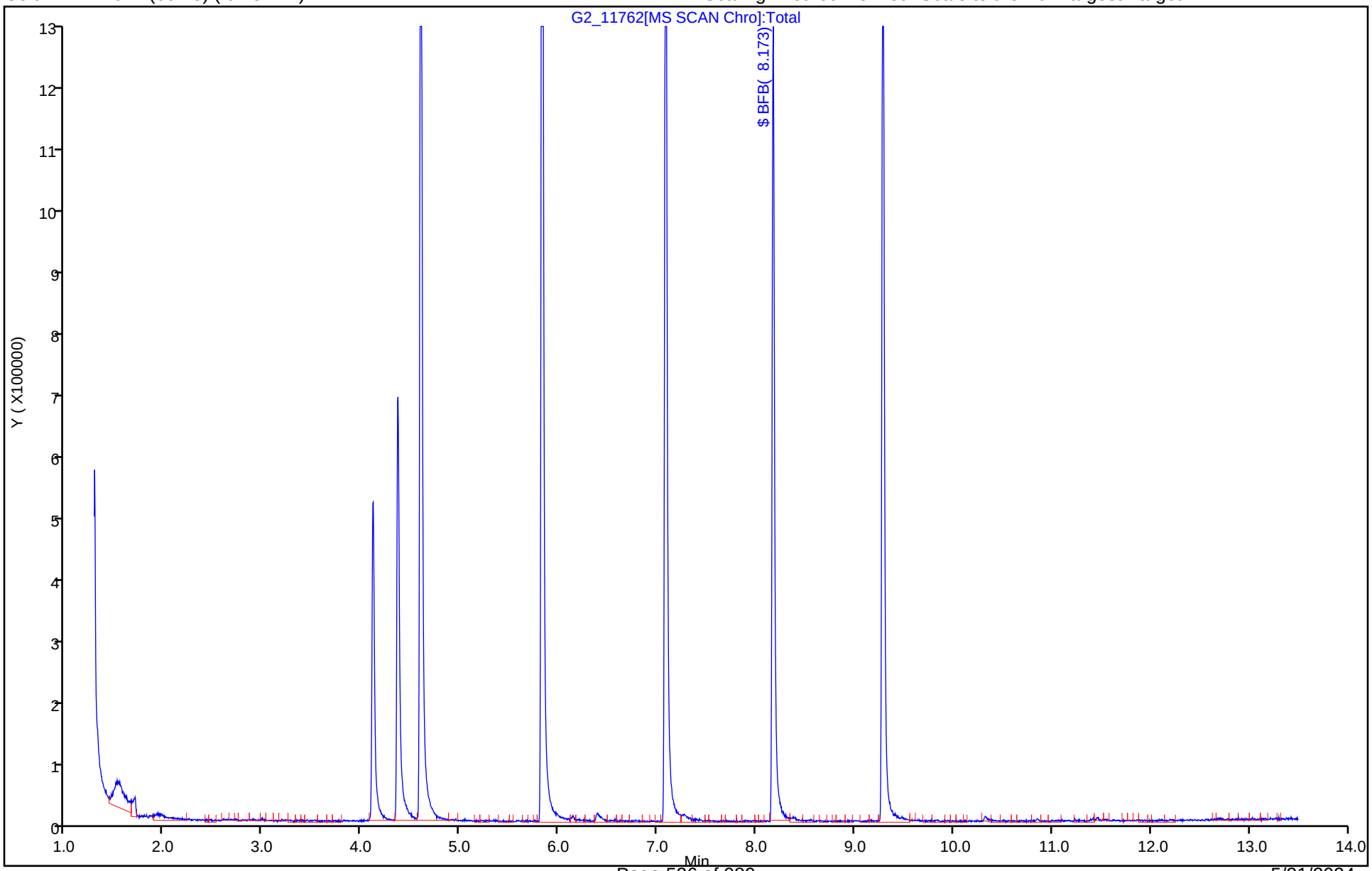
Report Date: 09-May-2024 13:22:17 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11762.D

Injection Date:	08-May-2024 23:17:30	Instrument ID:	VMS_G2	Operator ID:	COULTER/CF
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	100
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11794.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	09-May-2024 15:22:30	ALS Bottle#:	100	Worklist Smp#:	32
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Operator ID:	COULTER	Instrument ID:	VMS_G2		
Method:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\AQ_VMSG2_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	09-May-2024 17:12:03	Calib Date:	09-May-2024 06:30:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1635				
First Level Reviewer: Q2ZS		Date:	09-May-2024 15:57:20		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	8.165	8.165	0.000	79	590704	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

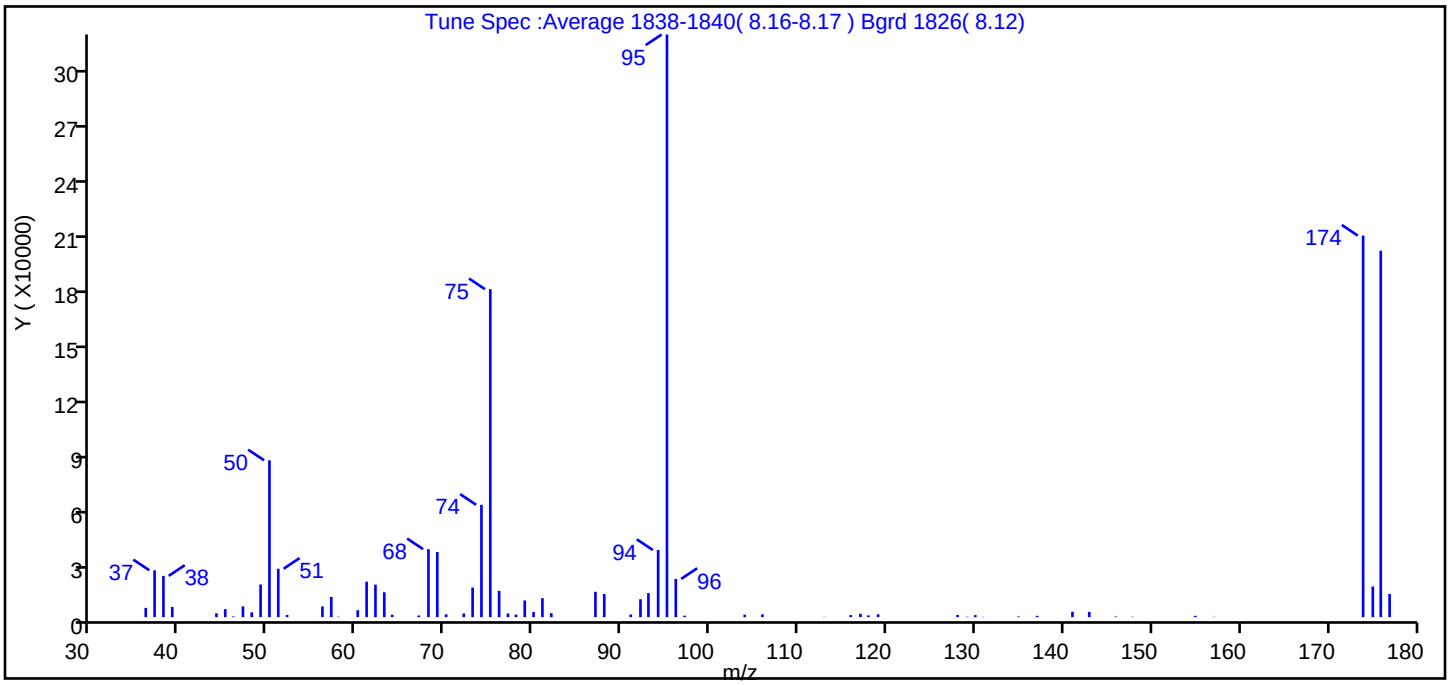
mv-Cent BFB_00007 Amount Added: 5.00 Units: uL

MS Tune Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11794.D
Injection Date: 09-May-2024 15:22:30 Instrument ID: VMS_G2
Lims ID: BFB
Client ID:
Operator ID: COULTER ALS Bottle#: 100 Worklist Smp#: 32
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	26.9
75	30 to 60% of m/z 95	56.3
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	65.5
175	5 to 9% of m/z 174	5.3 (8.0)
176	Greater than 95% but less than 101% of m/z 174	62.9 (96.0)
177	5 to 9% of m/z 176	4.0 (6.3)

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11794.D\AQ_VMSG2_8260.rslt\spectra.d
Injection Date: 09-May-2024 15:22:30
Spectrum: Tune Spec :Average 1838-1840(8.16-8.17) Bgrd 1826(8.12)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 68

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4990	61.00	19104	81.00	10211	119.00	1552
37.00	25264	62.00	17528	82.00	2115	128.00	1190
38.00	22240	63.00	13406	87.00	13648	129.00	245
39.00	5502	64.00	1314	88.00	12486	130.00	1070
44.00	2071	67.00	899	91.00	1392	131.00	168
45.00	4339	68.00	36616	92.00	9653	135.00	394
46.00	381	69.00	35096	93.00	12964	137.00	712
47.00	5819	70.00	1527	94.00	36184	141.00	2902
48.00	2609	72.00	1974	95.00	313920	143.00	2847
49.00	17584	73.00	15962	96.00	20584	146.00	357
50.00	84504	74.00	60528	97.00	788	148.00	219
51.00	26072	75.00	176704	104.00	1338	155.00	732
52.00	1201	76.00	14167	106.00	1531	157.00	180
56.00	5759	77.00	1976	113.00	167	174.00	205568
57.00	10881	78.00	1392	116.00	1113	175.00	16512
58.00	240	79.00	8995	117.00	1839	176.00	197440
60.00	3727	80.00	2741	118.00	940	177.00	12501

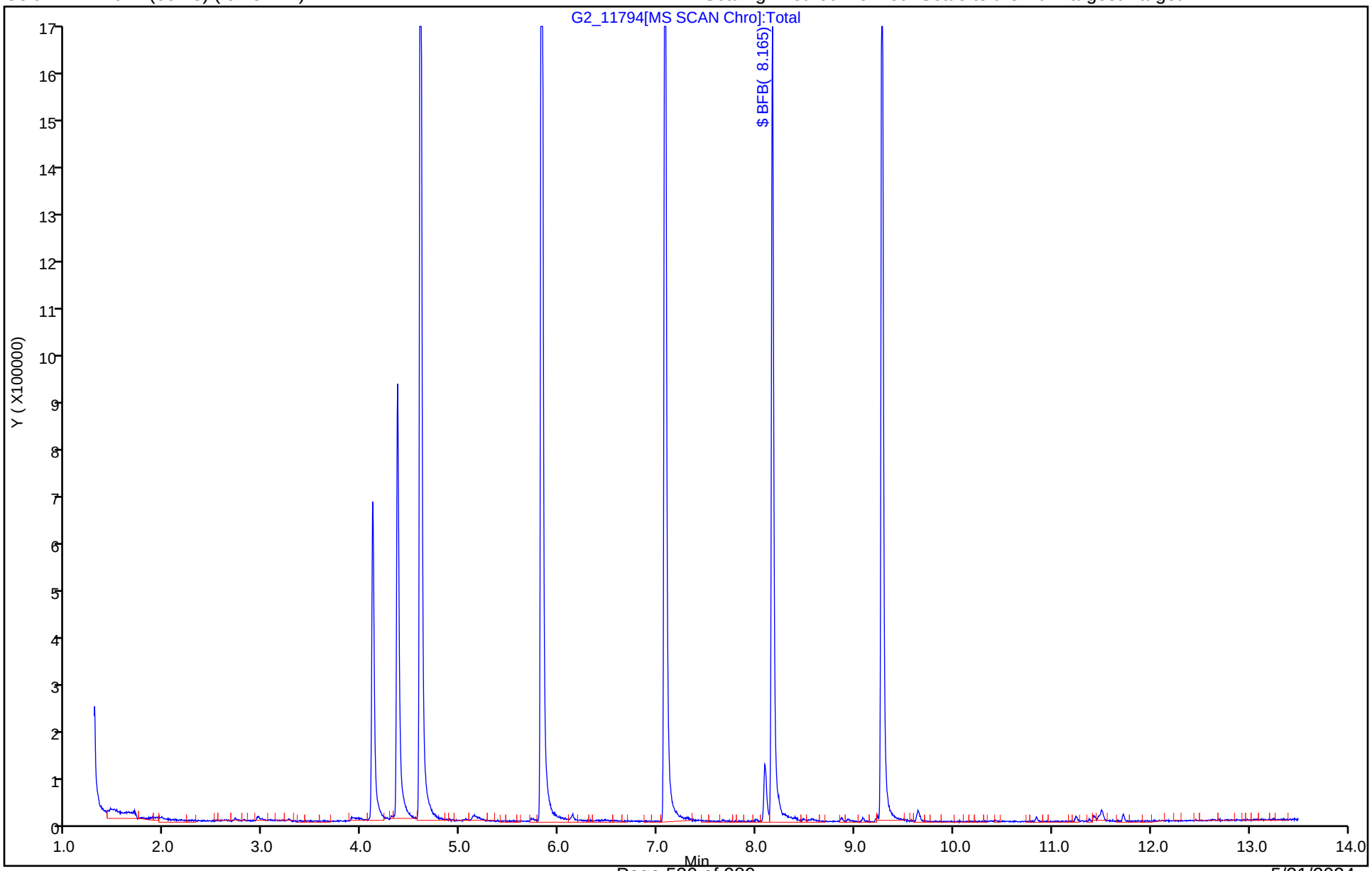
Report Date: 09-May-2024 17:12:03 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11794.D

Injection Date:	09-May-2024 15:22:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	BFB			Worklist Smp#:	32
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	100
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



5/21/2024
3:57:23 PM

Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12148.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	17-May-2024 19:38:30	ALS Bottle#:	100	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Operator ID:	CF	Instrument ID:	VMS_G2		
Method:	\\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\AQ_VMSG2_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	20-May-2024 15:34:02	Calib Date:	09-May-2024 06:30:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1654				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	8.162	8.162	0.000	85	575319	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

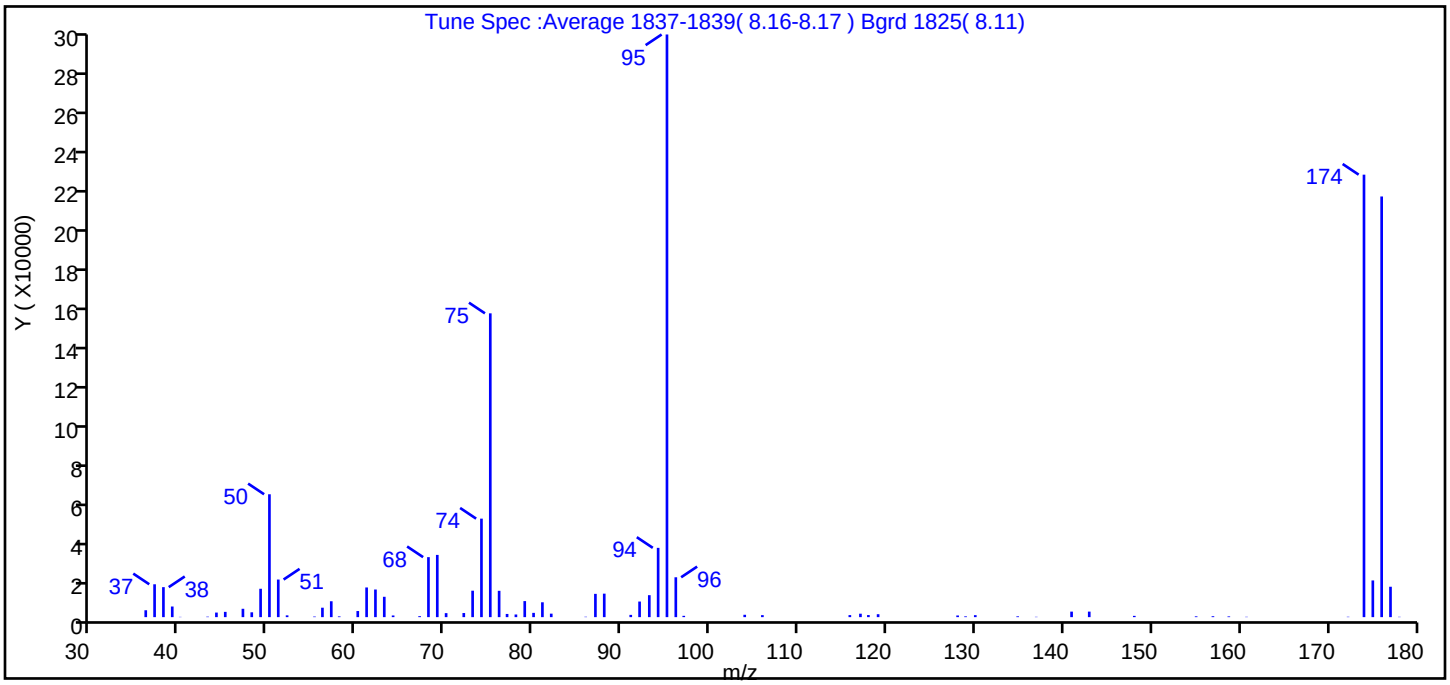
mv-Cent BFB_00007 Amount Added: 2.00 Units: uL

MS Tune Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12148.D
Injection Date: 17-May-2024 19:38:30 Instrument ID: VMS_G2
Lims ID: BFB
Client ID:
Operator ID: CF ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.1
75	30 to 60% of m/z 95	52.1
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	75.9
175	5 to 9% of m/z 174	6.3 (8.3)
176	Greater than 95% but less than 101% of m/z 174	72.2 (95.1)
177	5 to 9% of m/z 176	5.2 (7.2)

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12148.D\AQ_VMSG2_8260.rslt\spectra.d
Injection Date: 17-May-2024 19:38:30
Spectrum: Tune Spec :Average 1837-1839(8.16-8.17) Bgrd 1825(8.11)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 72

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3517	60.00	3118	81.00	7582	128.00	845
37.00	16776	61.00	15148	82.00	1784	129.00	398
38.00	15312	62.00	14108	86.00	198	130.00	1008
39.00	5426	63.00	10389	87.00	11885	135.00	407
40.00	137	64.00	853	88.00	11990	137.00	167
43.00	242	67.00	501	91.00	1160	141.00	2824
44.00	2335	68.00	30624	92.00	7965	143.00	2825
45.00	2694	69.00	31768	93.00	11213	148.00	652
47.00	4269	70.00	2047	94.00	35368	155.00	413
48.00	2470	72.00	2100	95.00	297408	157.00	463
49.00	14487	73.00	13500	96.00	20352	159.00	374
50.00	62720	74.00	50280	97.00	668	161.00	172
51.00	19192	75.00	155072	104.00	1208	172.00	193
52.00	912	76.00	13443	106.00	1026	174.00	225856
55.00	297	77.00	1633	116.00	1042	175.00	18736
56.00	4820	78.00	1356	117.00	1758	176.00	214720
57.00	8114	79.00	8188	118.00	1066	177.00	15515
58.00	373	80.00	2182	119.00	1496	178.00	166

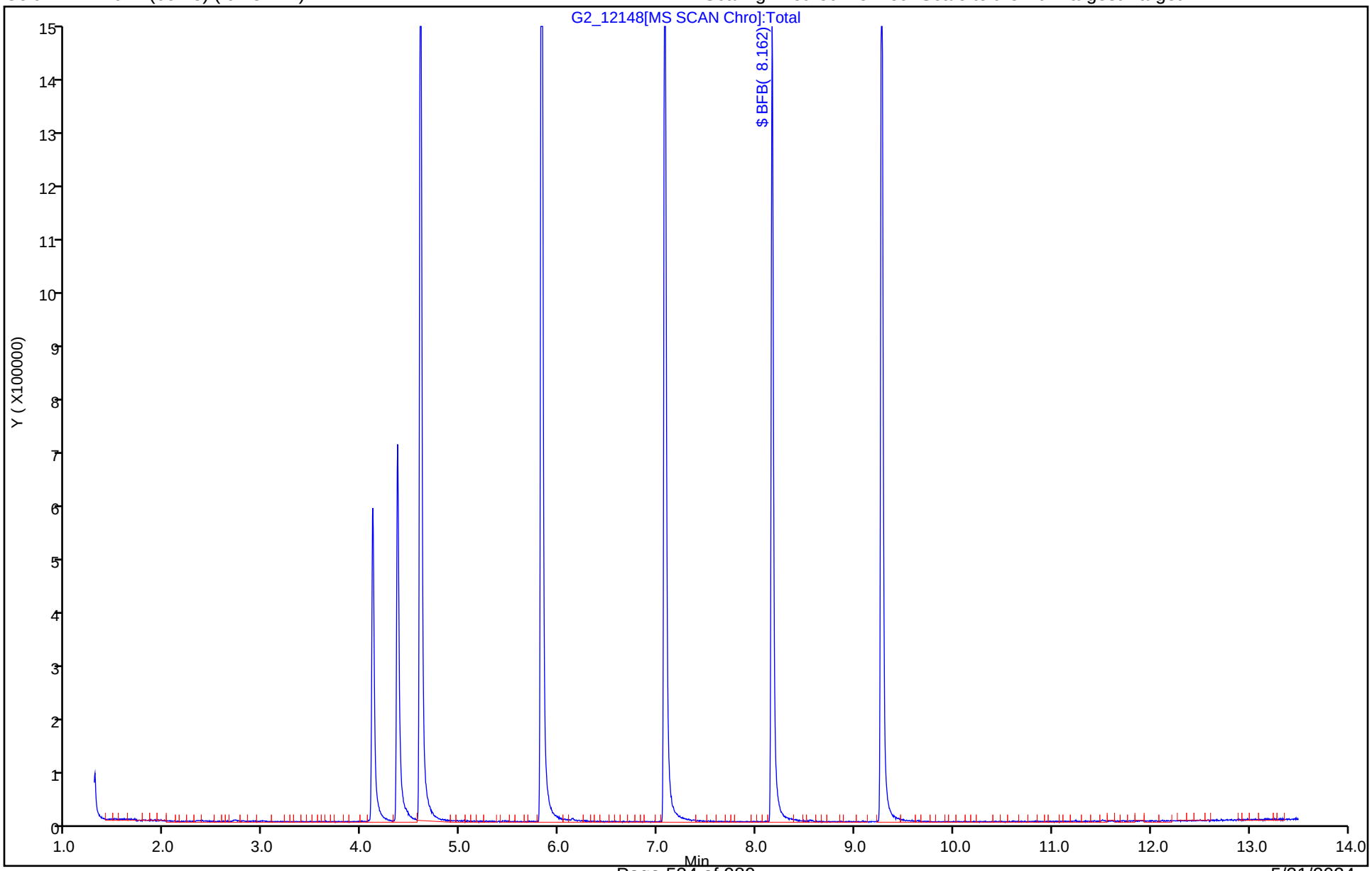
Report Date: 20-May-2024 15:34:02 Chrom Revision: 2.3 15-May-2024 08:18:50

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12148.D

Injection Date:	17-May-2024 19:38:30	Instrument ID:	VMS_G2	Operator ID:	CF
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	100
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-653922/9

Matrix: Water | Lab File ID: G2_12154.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/17/2024 21:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

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

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

Analysis Batch No.: 653922 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
56-23-5	Carbon tetrachloride	0.50	U	1.0	0.50	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		81-118
460-00-4	4-Bromofluorobenzene (Surr)	95		85-114
1868-53-7	Dibromofluoromethane (Surr)	100		80-119
2037-26-5	Toluene-d8 (Surr)	91		89-112

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12154.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 17-May-2024 21:43:30 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Operator ID: CF Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-May-2024 15:16:25 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1654

First Level Reviewer: NNS5 Date: 20-May-2024 15:33:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.595	4.595	0.000	98	1747083	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.072	7.073	-0.001	88	390410	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.273	9.270	0.003	97	576210	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.112	4.113	-0.001	93	389793	50.0	50.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.363	4.363	0.000	98	528551	50.0	42.5	
$ 6 Toluene-d8 (Surr)	98	5.822	5.823	-0.001	94	1650605	50.0	45.5	
$ 7 4-Bromofluorobenzene (Surr)	95	8.161	8.158	0.003	85	633388	50.0	47.6	
$ 8 BFB	95	8.161	8.162	-0.001	85	643325		NR	
9 Dichlorodifluoromethane	85		1.426					ND	
10 Chloromethane	50		1.639					ND	
11 Vinyl chloride	62		1.665					ND	
12 Bromomethane	94		1.908					ND	
13 Chloroethane	64		1.983					ND	
14 Dichlorofluoromethane	67		2.144					ND	
15 Trichlorofluoromethane	101		2.170					ND	
17 Ethanol	45		2.339					ND	
18 Ethyl ether	59		2.373					ND	
19 Acrolein	56		2.474					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.537					ND	
21 1,1-Dichloroethene	96		2.545					ND	
22 Acetone	43		2.578					ND	
23 Iodomethane	142		2.657					ND	
24 Isopropyl alcohol	45		2.676					ND	
25 Carbon disulfide	76		2.713					ND	
26 Methyl acetate	43		2.784					ND	
27 Acetonitrile	41		2.788					ND	
16 3-Chloro-1-propene	41		2.795					ND	
28 Methylene Chloride	84		2.889					ND	U
29 2-Methyl-2-propanol	59		2.945					ND	
30 Acrylonitrile	53		3.046					ND	
31 Methyl tert-butyl ether	73		3.057					ND	
32 trans-1,2-Dichloroethene	96		3.069					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		3.252					ND	
35 Vinyl acetate	43		3.360					ND	
34 1,1-Dichloroethane	63		3.372					ND	
36 Isopropyl ether	87		3.379					ND	
37 2-Chloro-1,3-butadiene	53		3.424					ND	
38 Tert-butyl ethyl ether	59		3.630					ND	
39 2-Butanone (MEK)	43		3.753					ND	
40 cis-1,2-Dichloroethene	96		3.768					ND	
41 2,2-Dichloropropane	77		3.772					ND	
42 Ethyl acetate	43		3.772					ND	
43 Propionitrile	54		3.806					ND	
44 sec-Butyl Alcohol	45		3.873					ND	
45 Methacrylonitrile	41		3.903					ND	
46 Chlorobromomethane	128		3.941					ND	
47 Tetrahydrofuran	42		3.948					ND	
48 Chloroform	83		3.997					ND	
49 1,1,1-Trichloroethane	97		4.124					ND	
50 Cyclohexane	56		4.176					ND	
51 Carbon tetrachloride	117		4.236					ND	
52 1,1-Dichloropropene	75		4.240					ND	
53 Isobutyl alcohol	41		4.281					ND	U
54 Benzene	78		4.382					ND	
55 1,2-Dichloroethane	62		4.416					ND	
56 Tert-amyl methyl ether	73		4.457					ND	
57 n-Heptane	43		4.573					ND	
58 n-Butanol	56		4.771					ND	
59 Trichloroethene	95		4.865					ND	
60 2-Pentanone	43		4.977					ND	
61 Methylcyclohexane	55		5.041					ND	
62 1,2-Dichloropropane	63		5.059					ND	
63 Methyl methacrylate	100		5.086					ND	
64 1,4-Dioxane	88		5.127					ND	
65 Dibromomethane	93		5.134					ND	
66 Dichlorobromomethane	83		5.258					ND	
67 2-Nitropropane	41		5.430					ND	
68 2-Chloroethyl vinyl ether	63		5.467					ND	
69 cis-1,3-Dichloropropene	75		5.606					ND	
70 4-Methyl-2-pentanone (MIBK)	43		5.707					ND	
71 Toluene	91		5.879					ND	
72 trans-1,3-Dichloropropene	75		6.066					ND	
73 Ethyl methacrylate	69		6.092					ND	
74 1,1,2-Trichloroethane	97		6.231					ND	
75 Tetrachloroethene	164		6.313					ND	
76 1,3-Dichloropropane	76		6.373					ND	
77 2-Hexanone	43		6.403					ND	
78 Chlorodibromomethane	129		6.560					ND	
79 Ethylene Dibromide	107		6.672					ND	
80 1-Chlorohexane	91		7.069					ND	U
81 Chlorobenzene	112		7.099					ND	
82 1,1,1,2-Tetrachloroethane	131		7.170					ND	
83 Ethylbenzene	106		7.181					ND	
84 m-Xylene & p-Xylene	106		7.297					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 o-Xylene	106		7.653					ND	
86 Styrene	104		7.672					ND	
87 Bromoform	173		7.844					ND	
88 Isopropylbenzene	105		7.990					ND	
90 cis-1,4-Dichloro-2-butene	53		8.050					ND	
89 Cyclohexanone	55		8.079					ND	U
91 1,1,2,2-Tetrachloroethane	83		8.282					ND	
92 Bromobenzene	156		8.296					ND	
93 trans-1,4-Dichloro-2-butene	53		8.323					ND	
94 1,2,3-Trichloropropane	110		8.338					ND	
95 N-Propylbenzene	120		8.383					ND	
96 2-Chlorotoluene	126		8.472					ND	
97 1,3,5-Trimethylbenzene	105		8.558					ND	
98 4-Chlorotoluene	126		8.592					ND	
99 tert-Butylbenzene	119		8.858					ND	
100 1,2,4-Trimethylbenzene	105		8.918					ND	
101 sec-Butylbenzene	134		9.075					ND	
102 1,3-Dichlorobenzene	146		9.195					ND	
103 4-Isopropyltoluene	119		9.225					ND	
104 1,4-Dichlorobenzene	146		9.296					ND	
105 1,2,3-Trimethylbenzene	105		9.318					ND	
106 n-Butylbenzene	91		9.625					ND	
107 1,2-Dichlorobenzene	146		9.644					ND	
108 1,2-Dibromo-3-Chloropropane	157		10.415					ND	
109 1,3,5-Trichlorobenzene	180		10.606					ND	
110 1,2,4-Trichlorobenzene	180		11.230					ND	
111 Hexachlorobutadiene	225		11.373					ND	
112 Naphthalene	128		11.489					ND	
113 1,2,3-Trichlorobenzene	180		11.709					ND	
114 Ethylene oxide TIC	1		0.000					ND	
S 115 1,2-Dichloroethene, Total	1		0.000					ND	7
S 116 1,3-Dichloropropene, Total	1		0.000					ND	7
S 117 Xylenes, Total	106		0.000					ND	7
S 118 Total BTEX	1		0.000					ND	7
S 119 Trihalomethanes, Total	1		0.000					ND	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00079 Amount Added: 5.00 Units: uL Run Reagent

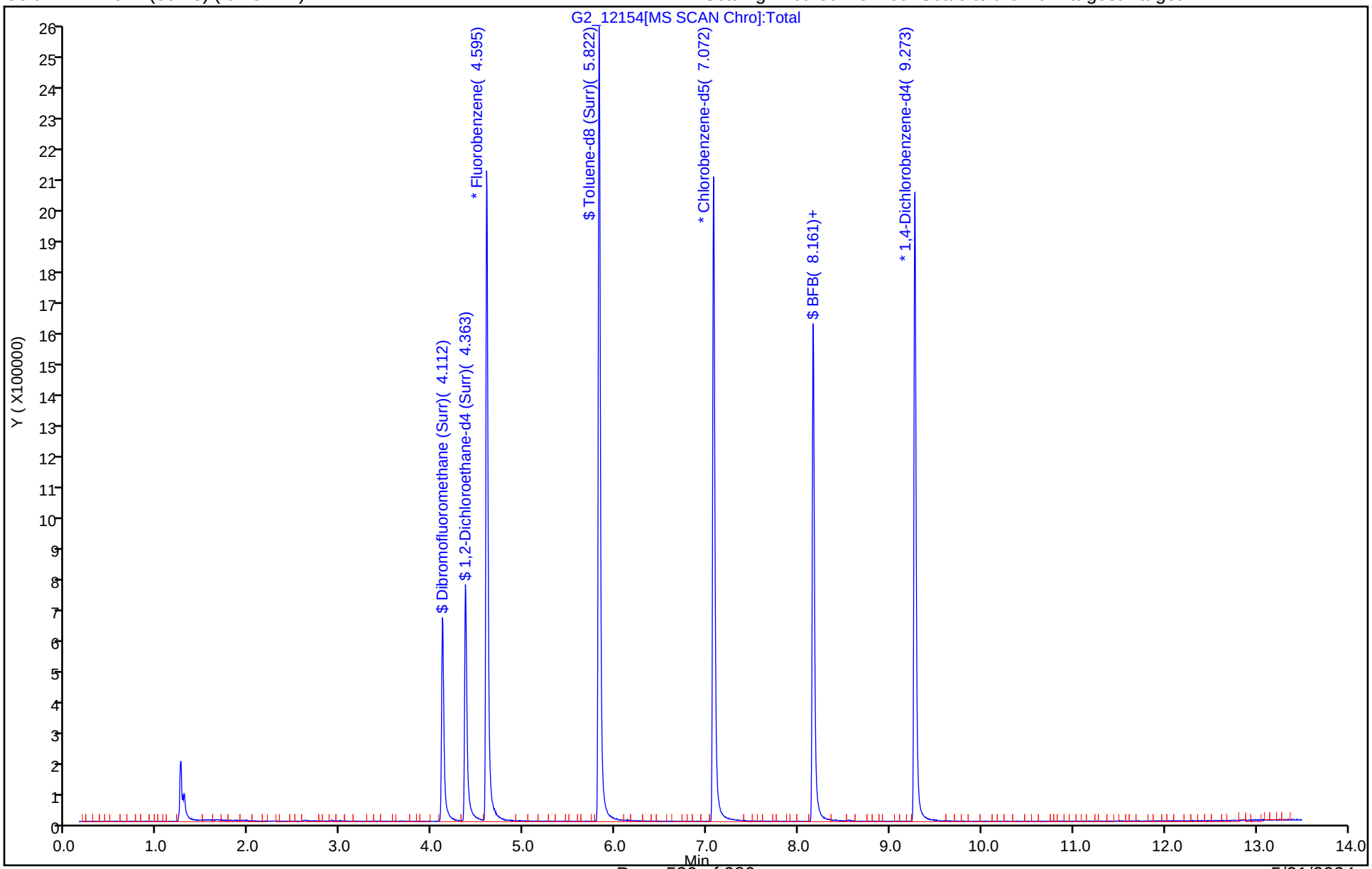
Report Date: 20-May-2024 15:33:41 Chrom Revision: 2.3 15-May-2024 08:18:50

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12154.D

Injection Date:	17-May-2024 21:43:30	Instrument ID:	VMS_G2	Operator ID:	CF
Lims ID:	MB			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12154.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 17-May-2024 21:43:30 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Operator ID: CF Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-May-2024 15:16:25 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1654

First Level Reviewer: NNS5 Date: 20-May-2024 15:33:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	50.0	100.04
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	42.5	85.02
$ 6 Toluene-d8 (Surr)	50.0	45.5	90.90
$ 7 4-Bromofluorobenzene (Surr)	50.0	47.6	95.21

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-653922/4

Matrix: Water | Lab File ID: G2_12149A.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/17/2024 19:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

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

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

Analysis Batch No.: 653922 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
56-23-5	Carbon tetrachloride	54.7		1.0	0.50	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		81-118
460-00-4	4-Bromofluorobenzene (Surr)	89		85-114
1868-53-7	Dibromofluoromethane (Surr)	109		80-119
2037-26-5	Toluene-d8 (Surr)	96		89-112

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12149A.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 17-May-2024 19:59:30 ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Operator ID: CF Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 17-May-2024 21:51:04 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1678

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.595	4.595	0.000	99	1575605	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.073	7.073	0.000	88	365387	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.273	9.270	0.003	95	580499	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.109	4.113	-0.004	93	382291	50.0	54.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.363	4.363	0.000	98	474207	50.0	42.3	
$ 6 Toluene-d8 (Surr)	98	5.823	5.823	0.000	94	1629818	50.0	48.0	
$ 7 4-Bromofluorobenzene (Surr)	95	8.158	8.158	0.000	87	595748	50.0	44.4	
9 Dichlorodifluoromethane	85	1.426	1.426	0.000	100	241123	50.0	39.7	
10 Chloromethane	50	1.639	1.639	0.000	100	317782	50.0	34.8	
11 Vinyl chloride	62	1.665	1.665	0.000	98	228859	50.0	31.7	
12 Bromomethane	94	1.908	1.908	0.000	97	38728	50.0	16.8	
13 Chloroethane	64	1.983	1.983	0.000	99	113591	50.0	25.1	
14 Dichlorofluoromethane	67	2.144	2.144	0.000	99	355115	50.0	28.6	
15 Trichlorofluoromethane	101	2.170	2.170	0.000	99	256832	50.0	27.2	
18 Ethyl ether	59	2.373	2.373	0.000	94	336511	50.0	41.5	
19 Acrolein	56	2.474	2.474	0.000	100	1000870	493.8	488.5	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.537	2.537	0.000	95	248626	50.0	61.4	
21 1,1-Dichloroethene	96	2.545	2.545	0.000	96	303146	50.0	51.0	
22 Acetone	43	2.578	2.578	0.000	99	1138230	200.0	144.2	
23 Iodomethane	142	2.657	2.657	0.000	100	175352	50.0	22.8	
25 Carbon disulfide	76	2.713	2.713	0.000	99	839004	50.0	45.9	
26 Methyl acetate	43	2.784	2.784	0.000	98	1181315	100.0	75.5	
16 3-Chloro-1-propene	41	2.795	2.795	0.000	90	576046	50.0	38.2	
28 Methylene Chloride	84	2.889	2.889	0.000	96	366925	50.0	43.0	
29 2-Methyl-2-propanol	59	2.945	2.945	0.000	99	1978062	500.0	482.1	
30 Acrylonitrile	53	3.046	3.046	0.000	98	2981373	500.0	415.2	
31 Methyl tert-butyl ether	73	3.057	3.057	0.000	96	1265476	50.0	43.8	
32 trans-1,2-Dichloroethene	96	3.069	3.069	0.000	96	329994	50.0	53.4	
33 Hexane	57	3.252	3.252	0.000	94	558706	50.0	41.5	
35 Vinyl acetate	43	3.360	3.360	0.000	97	2163594	100.0	106.8	
34 1,1-Dichloroethane	63	3.372	3.372	0.000	97	703179	50.0	44.1	
39 2-Butanone (MEK)	43	3.753	3.753	0.000	100	1894615	200.0	153.2	
40 cis-1,2-Dichloroethene	96	3.768	3.768	0.000	86	390612	50.0	56.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2,2-Dichloropropane	77	3.772	3.772	0.000	86	595503	50.0	52.1	
44 sec-Butyl Alcohol	45	3.873	3.873	0.000	99	3472929	1200.0	948.8	
46 Chlorobromomethane	128	3.941	3.941	0.000	96	166925	50.0	54.6	
47 Tetrahydrofuran	42	3.948	3.948	0.000	89	716734	100.0	80.1	
48 Chloroform	83	3.997	3.997	0.000	95	670707	50.0	48.3	
49 1,1,1-Trichloroethane	97	4.124	4.124	0.000	99	575406	50.0	50.6	
50 Cyclohexane	56	4.176	4.176	0.000	92	729789	50.0	42.2	
51 Carbon tetrachloride	117	4.236	4.236	0.000	94	477024	50.0	54.7	
52 1,1-Dichloropropene	75	4.240	4.240	0.000	95	520084	50.0	47.3	
53 Isobutyl alcohol	41	4.281	4.281	0.000	94	1351375	1250.0	1001.9	
54 Benzene	78	4.382	4.382	0.000	98	1579574	50.0	49.0	
55 1,2-Dichloroethane	62	4.416	4.416	0.000	98	566613	50.0	41.8	
57 n-Heptane	43	4.573	4.573	0.000	94	557059	50.0	42.5	
59 Trichloroethene	95	4.865	4.865	0.000	98	392091	50.0	46.5	
60 2-Pentanone	43	4.977	4.977	0.000	99	2660242	160.0	117.0	
61 Methylcyclohexane	55	5.041	5.041	0.000	95	572357	50.0	43.3	
62 1,2-Dichloropropane	63	5.059	5.059	0.000	96	435710	50.0	44.3	
64 1,4-Dioxane	88	5.127	5.127	0.000	95	147513	1000.0	782.4	
65 Dibromomethane	93	5.134	5.134	0.000	97	252834	50.0	52.1	
66 Dichlorobromomethane	83	5.258	5.258	0.000	99	534850	50.0	49.9	
68 2-Chloroethyl vinyl ether	63	5.467	5.467	0.000	92	325254	50.0	40.4	
69 cis-1,3-Dichloropropene	75	5.606	5.606	0.000	94	655865	50.0	44.4	
70 4-Methyl-2-pentanone (MIBK)	43	5.707	5.707	0.000	97	3480875	200.0	150.5	
71 Toluene	91	5.879	5.879	0.000	98	1687289	50.0	53.0	
72 trans-1,3-Dichloropropene	75	6.066	6.066	0.000	96	646833	50.0	49.6	
73 Ethyl methacrylate	69	6.092	6.092	0.000	91	729687	50.0	40.0	
74 1,1,2-Trichloroethane	97	6.231	6.231	0.000	93	390955	50.0	54.3	
75 Tetrachloroethene	164	6.313	6.313	0.000	98	321199	50.0	56.5	
76 1,3-Dichloropropane	76	6.373	6.373	0.000	94	697068	50.0	44.9	
77 2-Hexanone	43	6.403	6.403	0.000	97	2917799	200.0	131.7	
78 Chlorodibromomethane	129	6.560	6.560	0.000	90	411429	50.0	52.3	
79 Ethylene Dibromide	107	6.672	6.672	0.000	98	411274	50.0	51.0	
80 1-Chlorohexane	91	7.069	7.069	0.000	97	431126	40.0	37.5	
81 Chlorobenzene	112	7.099	7.099	0.000	92	1040285	50.0	50.2	
82 1,1,1,2-Tetrachloroethane	131	7.170	7.170	0.000	95	374839	50.0	51.0	
83 Ethylbenzene	106	7.181	7.181	0.000	99	564534	50.0	51.2	
84 m-Xylene & p-Xylene	106	7.297	7.297	0.000	99	700774	50.0	51.7	
85 o-Xylene	106	7.653	7.653	0.000	97	694033	50.0	51.0	
86 Styrene	104	7.672	7.672	0.000	95	1179197	50.0	53.2	
87 Bromoform	173	7.844	7.844	0.000	96	302941	50.0	55.1	
88 Isopropylbenzene	105	7.990	7.990	0.000	96	1836552	50.0	46.6	
89 Cyclohexanone	55	8.079	8.079	0.000	95	1772802	1500.0	1143.6	
91 1,1,2,2-Tetrachloroethane	83	8.282	8.282	0.000	96	627847	50.0	41.3	
92 Bromobenzene	156	8.296	8.296	0.000	96	432052	50.0	55.5	
93 trans-1,4-Dichloro-2-butene	53	8.323	8.323	0.000	86	207813	50.0	31.2	
94 1,2,3-Trichloropropane	110	8.338	8.338	0.000	85	214232	50.0	43.9	
95 N-Propylbenzene	120	8.383	8.383	0.000	99	472730	50.0	50.2	
96 2-Chlorotoluene	126	8.472	8.472	0.000	95	401415	50.0	52.7	
97 1,3,5-Trimethylbenzene	105	8.558	8.558	0.000	94	1426532	50.0	45.9	
98 4-Chlorotoluene	126	8.592	8.592	0.000	99	401320	50.0	51.8	
99 tert-Butylbenzene	119	8.858	8.858	0.000	94	1251490	50.0	47.7	
100 1,2,4-Trimethylbenzene	105	8.918	8.918	0.000	98	1420448	50.0	45.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 sec-Butylbenzene	134	9.075	9.075	0.000	95	360120	50.0	53.5	
102 1,3-Dichlorobenzene	146	9.195	9.195	0.000	98	796483	50.0	53.3	
103 4-Isopropyltoluene	119	9.225	9.225	0.000	97	1481159	50.0	47.8	
104 1,4-Dichlorobenzene	146	9.296	9.296	0.000	94	809050	50.0	53.1	
106 n-Butylbenzene	91	9.625	9.625	0.000	98	1316712	50.0	45.9	
107 1,2-Dichlorobenzene	146	9.644	9.644	0.000	96	734211	50.0	50.6	
108 1,2-Dibromo-3-Chloropropane	157	10.415	10.415	0.000	84	207086	50.0	52.3	
110 1,2,4-Trichlorobenzene	180	11.230	11.230	0.000	94	468972	50.0	58.1	
111 Hexachlorobutadiene	225	11.373	11.373	0.000	97	218165	50.0	58.1	
112 Naphthalene	128	11.489	11.489	0.000	97	1551089	50.0	52.7	
113 1,2,3-Trichlorobenzene	180	11.709	11.709	0.000	95	453440	50.0	57.4	
S 115 1,2-Dichloroethene, Total	1				0		100.0	109.4	
S 116 1,3-Dichloropropene, Total	1				0		100.0	93.9	
S 117 Xylenes, Total	106				0		100.0	102.6	
S 119 Trihalomethanes, Total	1				0		200.0	205.6	

Reagents:

MV-MegaMain B_00102	Amount Added: 25.00	Units: uL	
MV-Gas B_00162	Amount Added: 10.00	Units: uL	
mv-IS_SS_00079	Amount Added: 5.00	Units: uL	Run Reagent

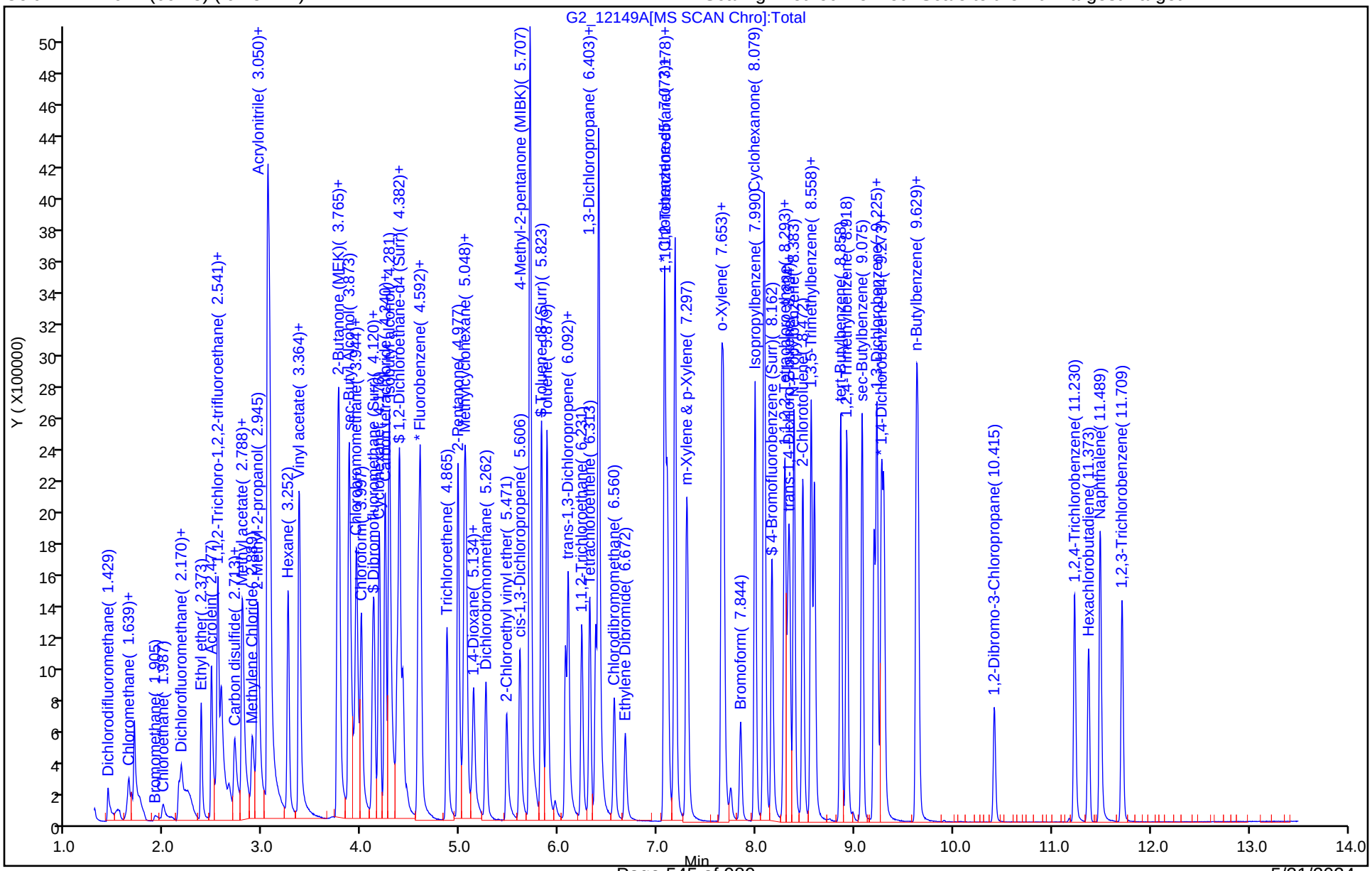
Report Date: 17-May-2024 21:51:05 Chrom Revision: 2.3 14-May-2024 14:23:08

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12149A.D

Injection Date:	17-May-2024 19:59:30	Instrument ID:	VMS_G2	Operator ID:	CF
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12149A.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 17-May-2024 19:59:30 ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Operator ID: CF Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 17-May-2024 21:51:04 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1678

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	54.4	108.80
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	42.3	84.58
$ 6 Toluene-d8 (Surr)	50.0	48.0	95.90
$ 7 4-Bromofluorobenzene (Surr)	50.0	44.4	88.89

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-653922/5

Matrix: Water | Lab File ID: G2_12151.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/17/2024 20:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

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

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

Analysis Batch No.: 653922 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
56-23-5	Carbon tetrachloride	53.7		1.0	0.50	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		81-118
460-00-4	4-Bromofluorobenzene (Surr)	88		85-114
1868-53-7	Dibromofluoromethane (Surr)	109		80-119
2037-26-5	Toluene-d8 (Surr)	95		89-112

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12151.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 17-May-2024 20:40:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Operator ID: CF Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 17-May-2024 21:51:04 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1678

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.596	4.595	0.001	99	1578647	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.077	7.073	0.004	88	368150	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.273	9.270	0.003	95	580270	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.109	4.113	-0.004	93	384053	50.0	54.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.364	4.363	0.001	98	467996	50.0	41.7	
$ 6 Toluene-d8 (Surr)	98	5.823	5.823	0.000	93	1631027	50.0	47.6	
$ 7 4-Bromofluorobenzene (Surr)	95	8.158	8.158	0.000	87	591550	50.0	44.2	
9 Dichlorodifluoromethane	85	1.426	1.426	0.000	100	232141	50.0	38.2	
10 Chloromethane	50	1.639	1.639	0.000	100	313709	50.0	34.3	
11 Vinyl chloride	62	1.665	1.665	0.000	97	202075	50.0	27.9	
12 Bromomethane	94	1.901	1.908	-0.007	96	36686	50.0	15.8	
13 Chloroethane	64	1.987	1.983	0.004	98	88852	50.0	19.6	
14 Dichlorofluoromethane	67	2.148	2.144	0.004	99	379549	50.0	30.5	
15 Trichlorofluoromethane	101	2.171	2.170	0.001	98	254463	50.0	26.9	
18 Ethyl ether	59	2.373	2.373	0.000	93	355110	50.0	43.8	
19 Acrolein	56	2.477	2.474	0.003	100	985892	493.8	480.3	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.537	2.537	0.000	96	251466	50.0	62.0	
21 1,1-Dichloroethene	96	2.545	2.545	0.000	97	299530	50.0	50.3	
22 Acetone	43	2.578	2.578	0.000	100	1060529	200.0	134.1	
23 Iodomethane	142	2.657	2.657	0.000	99	195099	50.0	25.3	
25 Carbon disulfide	76	2.713	2.713	0.000	99	833350	50.0	45.5	
26 Methyl acetate	43	2.784	2.784	0.000	98	1132801	100.0	72.3	
16 3-Chloro-1-propene	41	2.796	2.795	0.001	90	571448	50.0	37.8	
28 Methylene Chloride	84	2.889	2.889	0.000	96	365567	50.0	42.7	
29 2-Methyl-2-propanol	59	2.945	2.945	0.000	100	1787992	500.0	434.9	
30 Acrylonitrile	53	3.046	3.046	0.000	98	2938367	500.0	408.4	
31 Methyl tert-butyl ether	73	3.061	3.057	0.004	96	1238861	50.0	42.8	
32 trans-1,2-Dichloroethene	96	3.072	3.069	0.003	97	328644	50.0	53.1	
33 Hexane	57	3.252	3.252	0.000	94	547011	50.0	40.3	
35 Vinyl acetate	43	3.361	3.360	0.001	97	2041838	100.0	100.6	
34 1,1-Dichloroethane	63	3.372	3.372	0.000	97	685312	50.0	42.9	
39 2-Butanone (MEK)	43	3.754	3.753	0.001	100	1787585	200.0	144.4	
40 cis-1,2-Dichloroethene	96	3.769	3.768	0.001	87	386191	50.0	55.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2,2-Dichloropropane	77	3.772	3.772	0.000	87	573967	50.0	50.2	
44 sec-Butyl Alcohol	45	3.873	3.873	0.000	99	3467760	1200.0	945.6	
46 Chlorobromomethane	128	3.941	3.941	0.000	97	165964	50.0	54.1	
47 Tetrahydrofuran	42	3.948	3.948	0.000	90	645609	100.0	72.1	
48 Chloroform	83	3.997	3.997	0.000	95	663143	50.0	47.7	
49 1,1,1-Trichloroethane	97	4.124	4.124	0.000	99	569119	50.0	50.0	
50 Cyclohexane	56	4.180	4.176	0.004	92	718171	50.0	41.5	
51 Carbon tetrachloride	117	4.236	4.236	0.000	96	469309	50.0	53.7	
52 1,1-Dichloropropene	75	4.236	4.240	-0.004	95	515941	50.0	46.8	
53 Isobutyl alcohol	41	4.281	4.281	0.000	94	1331372	1250.0	985.3	
54 Benzene	78	4.382	4.382	0.000	97	1587897	50.0	49.2	
55 1,2-Dichloroethane	62	4.416	4.416	0.000	97	519709	50.0	38.3	
57 n-Heptane	43	4.573	4.573	0.000	93	545110	50.0	41.5	
59 Trichloroethene	95	4.865	4.865	0.000	99	389506	50.0	45.8	
60 2-Pentanone	43	4.977	4.977	0.000	99	2717718	160.0	119.2	
61 Methylcyclohexane	55	5.045	5.041	0.004	95	548031	50.0	41.4	
62 1,2-Dichloropropane	63	5.063	5.059	0.004	96	433952	50.0	44.1	
64 1,4-Dioxane	88	5.123	5.127	-0.004	68	177619	1000.0	937.6	
65 Dibromomethane	93	5.134	5.134	0.000	96	254958	50.0	52.4	
66 Dichlorobromomethane	83	5.258	5.258	0.000	99	540833	50.0	50.4	
68 2-Chloroethyl vinyl ether	63	5.471	5.467	0.004	93	301274	50.0	37.4	
69 cis-1,3-Dichloropropene	75	5.606	5.606	0.000	94	653127	50.0	43.8	
70 4-Methyl-2-pentanone (MIBK)	43	5.707	5.707	0.000	97	3511200	200.0	151.5	
71 Toluene	91	5.879	5.879	0.000	98	1672523	50.0	52.4	
72 trans-1,3-Dichloropropene	75	6.066	6.066	0.000	96	648355	50.0	49.6	
73 Ethyl methacrylate	69	6.096	6.092	0.004	91	714466	50.0	38.8	
74 1,1,2-Trichloroethane	97	6.231	6.231	0.000	93	383257	50.0	53.1	
75 Tetrachloroethene	164	6.313	6.313	0.000	98	317328	50.0	55.4	
76 1,3-Dichloropropane	76	6.373	6.373	0.000	93	689281	50.0	44.0	
77 2-Hexanone	43	6.403	6.403	0.000	97	2866597	200.0	128.4	
78 Chlorodibromomethane	129	6.560	6.560	0.000	90	410807	50.0	51.8	
79 Ethylene Dibromide	107	6.672	6.672	0.000	98	404830	50.0	49.9	
80 1-Chlorohexane	91	7.069	7.069	0.000	96	422568	40.0	36.5	
81 Chlorobenzene	112	7.099	7.099	0.000	92	1035049	50.0	49.6	
82 1,1,1,2-Tetrachloroethane	131	7.174	7.170	0.004	96	376261	50.0	50.8	
83 Ethylbenzene	106	7.181	7.181	0.000	99	557060	50.0	50.2	
84 m-Xylene & p-Xylene	106	7.297	7.297	0.000	99	687965	50.0	50.4	
85 o-Xylene	106	7.653	7.653	0.000	97	684284	50.0	49.9	
86 Styrene	104	7.672	7.672	0.000	94	1148349	50.0	51.4	
87 Bromoform	173	7.844	7.844	0.000	96	302076	50.0	54.6	
88 Isopropylbenzene	105	7.990	7.990	0.000	96	1809249	50.0	45.9	
89 Cyclohexanone	55	8.080	8.079	0.001	95	1821451	1500.0	1166.1	
91 1,1,2,2-Tetrachloroethane	83	8.282	8.282	0.000	95	623968	50.0	41.1	
92 Bromobenzene	156	8.297	8.296	0.001	93	429954	50.0	55.2	
93 trans-1,4-Dichloro-2-butene	53	8.323	8.323	0.000	87	206341	50.0	31.0	
94 1,2,3-Trichloropropane	110	8.342	8.338	0.004	85	215723	50.0	44.2	
95 N-Propylbenzene	120	8.386	8.383	0.003	99	464100	50.0	49.3	
96 2-Chlorotoluene	126	8.473	8.472	0.000	96	395554	50.0	51.9	
97 1,3,5-Trimethylbenzene	105	8.559	8.558	0.001	94	1418431	50.0	45.7	
98 4-Chlorotoluene	126	8.592	8.592	0.000	97	404372	50.0	52.2	
99 tert-Butylbenzene	119	8.858	8.858	0.000	94	1214783	50.0	46.3	
100 1,2,4-Trimethylbenzene	105	8.922	8.918	0.004	98	1406348	50.0	45.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 sec-Butylbenzene	134	9.075	9.075	0.000	95	360644	50.0	53.6	
102 1,3-Dichlorobenzene	146	9.195	9.195	0.000	97	780813	50.0	52.3	
103 4-Isopropyltoluene	119	9.225	9.225	0.000	97	1461338	50.0	47.2	
104 1,4-Dichlorobenzene	146	9.296	9.296	0.000	94	787625	50.0	51.7	
106 n-Butylbenzene	91	9.625	9.625	0.000	98	1285861	50.0	44.9	
107 1,2-Dichlorobenzene	146	9.644	9.644	0.000	96	745900	50.0	51.5	
108 1,2-Dibromo-3-Chloropropane	157	10.418	10.415	0.003	83	205271	50.0	51.9	
110 1,2,4-Trichlorobenzene	180	11.231	11.230	0.001	94	477873	50.0	59.2	
111 Hexachlorobutadiene	225	11.373	11.373	0.000	97	216693	50.0	57.7	
112 Naphthalene	128	11.489	11.489	0.000	97	1556609	50.0	52.9	
113 1,2,3-Trichlorobenzene	180	11.713	11.709	0.004	95	457623	50.0	58.0	
S 115 1,2-Dichloroethene, Total	1				0		100.0	108.3	
S 116 1,3-Dichloropropene, Total	1				0		100.0	93.4	
S 117 Xylenes, Total	106				0		100.0	100.2	
S 119 Trihalomethanes, Total	1				0		200.0	204.4	

Reagents:

MV-Gas B_00162	Amount Added: 10.00	Units: uL	
MV-MegaMain B_00102	Amount Added: 25.00	Units: uL	
mv-IS_SS_00079	Amount Added: 5.00	Units: uL	Run Reagent

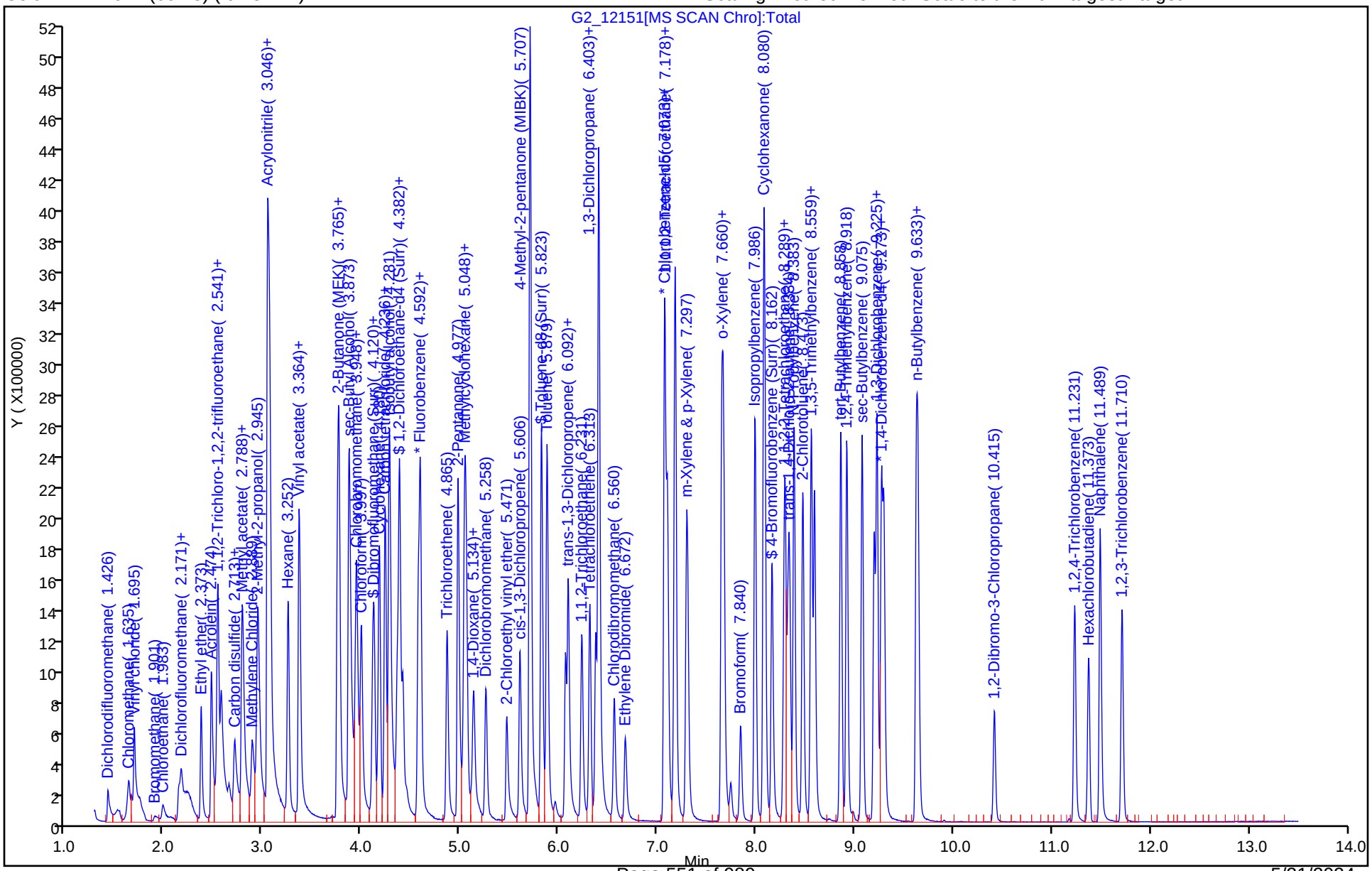
Report Date: 17-May-2024 21:51:09 Chrom Revision: 2.3 14-May-2024 14:23:08

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12151.D

Injection Date:	17-May-2024 20:40:30	Instrument ID:	VMS_G2	Operator ID:	CF
Lims ID:	LCSD			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\G2_12151.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 17-May-2024 20:40:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Operator ID: CF Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240517-133536.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 17-May-2024 21:51:04 Calib Date: 09-May-2024 06:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240508-133144.b\G2_11782.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1678

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	54.5	109.09
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	41.7	83.31
$ 6 Toluene-d8 (Surr)	50.0	47.6	95.25
$ 7 4-Bromofluorobenzene (Surr)	50.0	44.2	88.30

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: VMS_G2 Start Date: 05/08/2024 23:17

Analysis Batch Number: 652556 End Date: 05/09/2024 16:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-652556/1		05/08/2024 23:17	1	G2_11762.D	DB-624 (60.25) 0.25(mm)
STD05 280-652556/13 IC		05/08/2024 23:59	1	G2_11763.D	DB-624 (60.25) 0.25(mm)
STD1 280-652556/14 IC		05/09/2024 00:19	1	G2_11764.D	DB-624 (60.25) 0.25(mm)
STD2 280-652556/15 IC		05/09/2024 00:40	1	G2_11765.D	DB-624 (60.25) 0.25(mm)
STD5 280-652556/16 IC		05/09/2024 01:00	1	G2_11766.D	DB-624 (60.25) 0.25(mm)
STD10 280-652556/17 IC		05/09/2024 01:21	1	G2_11767.D	DB-624 (60.25) 0.25(mm)
ICIS 280-652556/18		05/09/2024 01:41	1	G2_11768.D	DB-624 (60.25) 0.25(mm)
STD75 280-652556/19 IC		05/09/2024 02:02	1	G2_11769.D	DB-624 (60.25) 0.25(mm)
STD100 280-652556/20 IC		05/09/2024 02:22	1	G2_11770.D	DB-624 (60.25) 0.25(mm)
STD200 280-652556/21 IC		05/09/2024 02:43	1	G2_11771.D	DB-624 (60.25) 0.25(mm)
ICV 280-652556/22		05/09/2024 03:24	1	G2_11773.D	DB-624 (60.25) 0.25(mm)
STD1 280-652556/23 IC		05/09/2024 04:05	1		DB-624 (60.25) 0.25(mm)
STD2 280-652556/24 IC		05/09/2024 04:26	1		DB-624 (60.25) 0.25(mm)
STD5 280-652556/25 IC		05/09/2024 04:47	1		DB-624 (60.25) 0.25(mm)
STD10 280-652556/26 IC		05/09/2024 05:07	1		DB-624 (60.25) 0.25(mm)
STD50 280-652556/27 IC		05/09/2024 05:28	1		DB-624 (60.25) 0.25(mm)
STD75 280-652556/28 IC		05/09/2024 05:49	1		DB-624 (60.25) 0.25(mm)
STD100 280-652556/29 IC		05/09/2024 06:09	1		DB-624 (60.25) 0.25(mm)
STD200 280-652556/30 IC		05/09/2024 06:30	1		DB-624 (60.25) 0.25(mm)
ICV 280-652556/31		05/09/2024 07:11	1	G2_11784.D	DB-624 (60.25) 0.25(mm)
BFB 280-652556/32		05/09/2024 15:22	1	G2_11794.D	DB-624 (60.25) 0.25(mm)
ICV 280-652556/33		05/09/2024 16:05	1	G2_11795.D	DB-624 (60.25) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: VMS_G2 Start Date: 05/17/2024 19:38

Analysis Batch Number: 653922 End Date: 05/18/2024 04:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-653922/1		05/17/2024 19:38	1	G2_12148.D	DB-624 (60.25) 0.25(mm)
CCV 280-653922/2		05/17/2024 19:59	1	G2_12149.D	DB-624 (60.25) 0.25(mm)
LCS 280-653922/4		05/17/2024 19:59	1	G2_12149A.D	DB-624 (60.25) 0.25(mm)
CCV 280-653922/3		05/17/2024 20:19	1	G2_12150.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		05/17/2024 20:19	1		DB-624 (60.25) 0.25(mm)
LCSD 280-653922/5		05/17/2024 20:40	1	G2_12151.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		05/17/2024 21:01	1		DB-624 (60.25) 0.25(mm)
MB 280-653922/9		05/17/2024 21:43	1	G2_12154.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		05/17/2024 22:03	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		05/17/2024 22:24	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		05/17/2024 22:45	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		05/17/2024 23:06	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		05/17/2024 23:26	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		05/17/2024 23:47	1		DB-624 (60.25) 0.25(mm)
280-191168-6	FWGTB-240401-TB002	05/18/2024 00:08	1	G2_12161.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		05/18/2024 00:29	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		05/18/2024 00:49	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		05/18/2024 01:10	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		05/18/2024 01:31	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		05/18/2024 01:52	1		DB-624 (60.25) 0.25(mm)
280-191168-5	LL10mw-003-240401-GW	05/18/2024 02:12	1	G2_12167.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		05/18/2024 02:33	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		05/18/2024 02:53	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		05/18/2024 03:14	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		05/18/2024 03:35	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		05/18/2024 03:56	10		DB-624 (60.25) 0.25(mm)
ZZZZZ		05/18/2024 04:17	100		DB-624 (60.25) 0.25(mm)
CCVC 280-653922/32		05/18/2024 04:38	1	G2_12174.D	DB-624 (60.25) 0.25(mm)
CCVC 280-653922/33		05/18/2024 04:59	1		DB-624 (60.25) 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Batch Number: 652556 Batch Start Date: 05/08/24 23:17 Batch Analyst: Ornelas, Gabriel

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Cal Dil B 00001	mv-Cent BFB 00007	mv-Cent IS 00008	MV-Gas A 00187
BFB 280-652556/1		8260D			5 mL	5 mL		2 uL		
STD05 280-652556/13 IC		8260D			5 mL	5 mL	5 uL			
STD1 280-652556/14 IC		8260D			5 mL	5 mL	10 uL			
STD2 280-652556/15 IC		8260D			5 mL	5 mL	20 uL			
STD5 280-652556/16 IC		8260D			5 mL	5 mL				
STD10 280-652556/17 IC		8260D			5 mL	5 mL				
ICIS 280-652556/18		8260D			5 mL	5 mL				
STD75 280-652556/19 IC		8260D			5 mL	5 mL				
STD100 280-652556/20 IC		8260D			5 mL	5 mL				
STD200 280-652556/21 IC		8260D			5 mL	5 mL				
ICV 280-652556/22		8260D			5 mL	5 mL				
ICV 280-652556/31		8260D			5 mL	5 mL			5 uL	
BFB 280-652556/32		8260D			5 mL	5 mL		5 uL		
ICV 280-652556/33		8260D			5 mL	5 mL				10 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MV-Gas B 00162	mv-IS_SS 00079	MV-MegaMain B 00102	MV-MegaMainA 00107	MV-Supp A 00091	
BFB 280-652556/1		8260D								

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Batch Number: 652556 Batch Start Date: 05/08/24 23:17 Batch Analyst: Ornelas, Gabriel

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MV-Gas B 00162	mv-IS_SS 00079	MV-MegaMain B 00102	MV-MegaMainA 00107	MV-Supp A 00091	
STD05 280-652556/13 IC		8260D				5 uL				
STD1 280-652556/14 IC		8260D				5 uL				
STD2 280-652556/15 IC		8260D				5 uL				
STD5 280-652556/16 IC		8260D			1 uL	5 uL	2.5 uL			
STD10 280-652556/17 IC		8260D			2 uL	5 uL	5 uL			
ICIS 280-652556/18		8260D			10 uL	5 uL	25 uL			
STD75 280-652556/19 IC		8260D			15 uL	5 uL	37.5 uL			
STD100 280-652556/20 IC		8260D			20 uL	5 uL	50 uL			
STD200 280-652556/21 IC		8260D			40 uL	5 uL	100 uL			
ICV 280-652556/22		8260D				5 uL		25 uL		
ICV 280-652556/31		8260D							25 uL	
BFB 280-652556/32		8260D								
ICV 280-652556/33		8260D				5 uL				

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 Denver Job No.: 280-191168-1

SDG No.:

Batch Number: 652556 Batch Start Date: 05/08/24 23:17 Batch Analyst: Ornelas, Gabriel

Batch Method: 8260D 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 Denver Job No.: 280-191168-1

SDG No.:

Batch Number: 653922 Batch Start Date: 05/17/24 19:38 Batch Analyst: Fogg, Cameron C

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	Headspace	mv-Cent BFB 00007	MV-Gas B 00162
BFB 280-653922/1		8260D			5 mL	5 mL			2 uL	
CCV 280-653922/2		8260D			5 mL	5 mL				10 uL
CCV 280-653922/3		8260D			5 mL	5 mL				
LCS 280-653922/4		8260D			5 mL	5 mL				10 uL
LCSD 280-653922/5		8260D			5 mL	5 mL				10 uL
MB 280-653922/9		8260D			5 mL	5 mL				
280-191168-B-6	FWGTB-240401-TB 002	8260D	Water	T	5 mL	5 mL	<2 SU	NO		
280-191168-B-5	LL10mw-003-240401-GW	8260D	Water	T	5 mL	5 mL	<2 SU	NO		
CCVC 280-653922/32		8260D			5 mL	5 mL				10 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	mv-IS_SS 00079	MV-MegaMain B 00102	MV-Supp B 00071			
BFB 280-653922/1		8260D								
CCV 280-653922/2		8260D			5 uL	25 uL				
CCV 280-653922/3		8260D			5 uL		25 uL			
LCS 280-653922/4		8260D			5 uL	25 uL				
LCSD 280-653922/5		8260D			5 uL	25 uL				
MB 280-653922/9		8260D			5 uL					
280-191168-B-6	FWGTB-240401-TB 002	8260D	Water	T	5 uL					
280-191168-B-5	LL10mw-003-240401-GW	8260D	Water	T	5 uL					
CCVC 280-653922/32		8260D			5 uL	25 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Batch Number: 653922 Batch Start Date: 05/17/24 19:38 Batch Analyst: Fogg, Cameron C

Batch Method: 8260D Batch End Date:

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.

8330B_DOD5

Nitroaromatics and Nitramines (HPLC)

FORM II
HPLC/IC SURROGATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): UltraCarb5u ID: 4.6 (mm) GC Column (2): Luna-phenyl 4.6 (mm)

Client Sample ID	Lab Sample ID	12DNB1 #	12DNB2 #
FWGmw-021-240401-GW	280-191168-2	58 Q	
FWGmw-021-240401-GW	280-191168-2		60 Q
FWGmw-021-240401-GW RE	280-191168-2 RE	105	
FWGmw-021-240401-GW RE	280-191168-2 RE		103
FWGmw-024-240401-GW	280-191168-3	49 M Q	
FWGmw-024-240401-GW RE	280-191168-3 RE	93 M	
LL3mw-245-240401-GW	280-191168-4	96 M	
LL3mw-245-240401-GW RE	280-191168-4 RE	100 M	
	MB 280-652898/1-A	97 M	
	MB 280-653565/1-A	98	
	LCS 280-652898/2-A	90	
	LCS 280-653565/2-A	104	
	LCSD 280-652898/3-A	93	
	LCSD 280-653565/3-A	95	

	QC LIMITS
12DNB = 1,2-Dinitrobenzene	83-119

Column to be used to flag recovery values

FORM II 8330B

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 05010029.D

Lab ID: LCS 280-652898/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.00	2.02	101	73-125	
1,3-Dinitrobenzene	2.00	1.79	90	78-120	
2,4,6-Trinitrotoluene	2.00	1.76	88	71-123	
2,4-Dinitrotoluene	2.00	1.67	84	78-120	
2,6-Dinitrotoluene	2.00	1.70	85	77-127	
2-Amino-4,6-dinitrotoluene	2.00	1.72	86	79-120	
2-Nitrotoluene	2.00	1.28	64	70-127	Q
3-Nitrotoluene	2.00	1.24	62	73-125	Q
4-Amino-2,6-dinitrotoluene	2.00	1.76	88	76-125	
4-Nitrotoluene	2.00	1.24	62	71-127	Q
HMX	2.00	1.77	89	65-135	M
Nitrobenzene	2.00	1.51	75	65-134	
Nitroglycerin	20.0	19.4	97	74-127	
PETN	20.0	20.1	101	73-127	
RDX	2.00	1.78	89	68-130	
Tetryl	2.00	1.74	87	64-128	

Column to be used to flag recovery and RPD values

FORM III 8330B

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 05170041.D

Lab ID: LCS 280-653565/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.00	2.12	106	73-125	
1,3-Dinitrobenzene	2.00	2.00	100	78-120	
2,4,6-Trinitrotoluene	2.00	1.95	98	71-123	
2,4-Dinitrotoluene	2.00	1.95	97	78-120	
2,6-Dinitrotoluene	2.00	1.93	97	77-127	
2-Amino-4,6-dinitrotoluene	2.00	2.00	100	79-120	
2-Nitrotoluene	2.00	1.63	81	70-127	
3-Nitrotoluene	2.00	1.62	81	73-125	
4-Amino-2,6-dinitrotoluene	2.00	2.02	101	76-125	
4-Nitrotoluene	2.00	1.60	80	71-127	
HMX	2.00	1.76	88	65-135	M
Nitrobenzene	2.00	1.81	91	65-134	
Nitroglycerin	20.0	20.4	102	74-127	
PETN	20.0	21.6	108	73-127	
RDX	2.00	1.91	96	68-130	
Tetryl	2.00	1.89	95	64-128	

Column to be used to flag recovery and RPD values

FORM III 8330B

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 05010030.D

Lab ID: LCSD 280-652898/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.00	2.05	102	2	20	73-125	
1,3-Dinitrobenzene	2.00	1.85	92	3	20	78-120	
2,4,6-Trinitrotoluene	2.00	1.81	91	3	20	71-123	
2,4-Dinitrotoluene	2.00	1.77	88	5	20	78-120	
2,6-Dinitrotoluene	2.00	1.78	89	5	20	77-127	
2-Amino-4,6-dinitrotoluene	2.00	1.81	91	5	20	79-120	
2-Nitrotoluene	2.00	1.40	70	8	20	70-127	
3-Nitrotoluene	2.00	1.31	65	5	20	73-125	Q
4-Amino-2,6-dinitrotoluene	2.00	1.86	93	5	20	76-125	
4-Nitrotoluene	2.00	1.33	67	7	20	71-127	Q
HMX	2.00	1.74	87	2	20	65-135	M
Nitrobenzene	2.00	1.63	81	8	20	65-134	
Nitroglycerin	20.0	19.6	98	1	20	74-127	
PETN	20.0	20.4	102	1	20	73-127	
RDX	2.00	1.78	89	0	20	68-130	
Tetryl	2.00	1.83	92	5	20	64-128	

Column to be used to flag recovery and RPD values

FORM III 8330B

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 05170042.D

Lab ID: LCSD 280-653565/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.00	2.12	106	0	20	73-125	
1,3-Dinitrobenzene	2.00	1.95	97	3	20	78-120	
2,4,6-Trinitrotoluene	2.00	1.91	95	2	20	71-123	
2,4-Dinitrotoluene	2.00	1.86	93	4	20	78-120	
2,6-Dinitrotoluene	2.00	1.89	94	2	20	77-127	
2-Amino-4,6-dinitrotoluene	2.00	1.88	94	6	20	79-120	
2-Nitrotoluene	2.00	1.49	75	9	20	70-127	
3-Nitrotoluene	2.00	1.47	73	10	20	73-125	
4-Amino-2,6-dinitrotoluene	2.00	1.94	97	4	20	76-125	
4-Nitrotoluene	2.00	1.46	73	9	20	71-127	
HMX	2.00	1.75	87	1	20	65-135	M
Nitrobenzene	2.00	1.73	87	5	20	65-134	
Nitroglycerin	20.0	20.4	102	0	20	74-127	
PETN	20.0	21.4	107	1	20	73-127	
RDX	2.00	1.90	95	1	20	68-130	
Tetryl	2.00	2.01	100	6	20	64-128	

Column to be used to flag recovery and RPD values

FORM III 8330B

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab Sample ID: MB 280-652898/1-A

Matrix: Water Date Extracted: 05/10/2024 10:58

Lab File ID:(1) 05010028.D Lab File ID:(2)

Date Analyzed:(1) 05/11/2024 15:16 Date Analyzed:(2)

Instrument ID:(1) CHHPLC_X3 Instrument ID:(2) CHHPLC_X5

GC Column:(1) UltraCarb5uO ID: 4.6(mm) GC Column:(2) Luna-phenylh ID: 4.6(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 280-652898/2-A	05/11/2024 15:39	
	LCSD 280-652898/3-A	05/11/2024 16:02	
FWGmw-021-240401-GW	280-191168-2	05/11/2024 18:20	05/11/2024 22:42
FWGmw-024-240401-GW	280-191168-3	05/11/2024 18:43	
LL3mw-245-240401-GW	280-191168-4	05/11/2024 19:29	

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab Sample ID: MB 280-653565/1-A

Matrix: Water Date Extracted: 05/17/2024 13:10

Lab File ID:(1) 05170040.D Lab File ID:(2)

Date Analyzed:(1) 05/18/2024 02:06 Date Analyzed:(2)

Instrument ID:(1) CHHPLC_X3 Instrument ID:(2) CHHPLC_X5

GC Column:(1) UltraCarb5uO ID: 4.6(mm) GC Column:(2) Luna-phenylh ID: 4.6(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 280-653565/2-A	05/18/2024 02:29	
	LCSD 280-653565/3-A	05/18/2024 02:52	
FWGmw-021-240401-GW RE	280-191168-2 RE	05/18/2024 05:09	05/17/2024 23:04
FWGmw-024-240401-GW RE	280-191168-3 RE	05/18/2024 05:32	
LL3mw-245-240401-GW RE	280-191168-4 RE	05/18/2024 06:18	

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Client Sample ID: FWGmw-021-240401-GW RE Lab Sample ID: 280-191168-2 RE

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_X5

Date Analyzed (1): 05/18/2024 05:09 Date Analyzed (2): 05/17/2024 23:04

GC Column (1): UltraCarb5uODS ID: 4.6(mm) GC Column (2): Luna-phenylh ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
2-Amino-4,6-dinitrotoluene	1		11.29	11.20	11.40	0.13		90.9
	2		17.03	16.92	17.22	0.33		

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Client Sample ID: FWGmw-021-240401-GW | Lab Sample ID: 280-191168-2

Matrix: Water | Lab File ID: 05010036.D

Analysis Method: 8330B | Date Collected: 05/07/2024 11:14

Extraction Method: 3535 | Date Extracted: 05/10/2024 10:58

Sample wt/vol: 474.8(mL) | Date Analyzed: 05/11/2024 18:20

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 100(uL) | GC Column: UltraCarb5uODS ID: 4.6(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653063 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-65-0	1,3-Dinitrobenzene	0.11	U M Q	0.12	0.11	0.039
118-96-7	2,4,6-Trinitrotoluene	0.11	U Q	0.12	0.11	0.047
121-14-2	2,4-Dinitrotoluene	0.084	U M Q	0.11	0.084	0.029
606-20-2	2,6-Dinitrotoluene	0.084	U Q	0.11	0.084	0.042
35572-78-2	2-Amino-4,6-dinitrotoluene	0.11	U Q	0.12	0.11	0.053
88-72-2	2-Nitrotoluene	0.21	U Q	0.22	0.21	0.090
99-08-1	3-Nitrotoluene	0.37	U Q	0.42	0.37	0.21
19406-51-0	4-Amino-2,6-dinitrotoluene	0.13	U Q	0.16	0.13	0.061
99-99-0	4-Nitrotoluene	0.42	U Q	0.43	0.42	0.11
2691-41-0	HMX	0.21	U Q	0.22	0.21	0.092
98-95-3	Nitrobenzene	0.21	U Q	0.22	0.21	0.096
55-63-0	Nitroglycerin	2.1	U Q	2.2	2.1	0.97
78-11-5	PETN	1.1	U Q	1.2	1.1	0.47
479-45-8	Tetryl	0.11	U Q	0.12	0.11	0.033

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	58	Q	83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\05010036.D
Lims ID: 280-191168-A-2-A
Client ID: FWGmw-021-240401-GW
Sample Type: Client
Inject. Date: 11-May-2024 18:20:25 ALS Bottle#: 36 Worklist Smp#: 36
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-191168-A-2-A
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 14-May-2024 14:09:25 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1620

First Level Reviewer: LV5D Date: 14-May-2024 12:51:19

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
4 HMX	1		6.611			ND	
8 RDX	1	7.644	7.631	0.013	10542	0.0952	
$ 10 1,2-Dinitrobenzene	1	8.544	8.565	-0.021	15491	0.1170	
11 1,3,5-Trinitrobenzene	1	8.711	8.705	0.006	3003	0.0135	M
12 1,3-Dinitrobenzene	1		9.318			ND	U
13 Nitrobenzene	1		9.671			ND	
15 Tetryl	1		9.991			ND	
16 Nitroglycerin	2		10.458			ND	
17 2,4,6-Trinitrotoluene	1		10.891			ND	7
18 4-Amino-2,6-dinitrotoluene	1	11.024	11.064	-0.040	835	0.005569	
19 2-Amino-4,6-dinitrotoluene	1		11.318			ND	
20 2,6-Dinitrotoluene	1		11.464			ND	
21 2,4-Dinitrotoluene	1		11.638			ND	U
22 o-Nitrotoluene	1		12.418			ND	7
23 p-Nitrotoluene	1		12.831			ND	
24 m-Nitrotoluene	1		13.371			ND	
25 PETN	2		14.418			ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
U - Marked Undetected

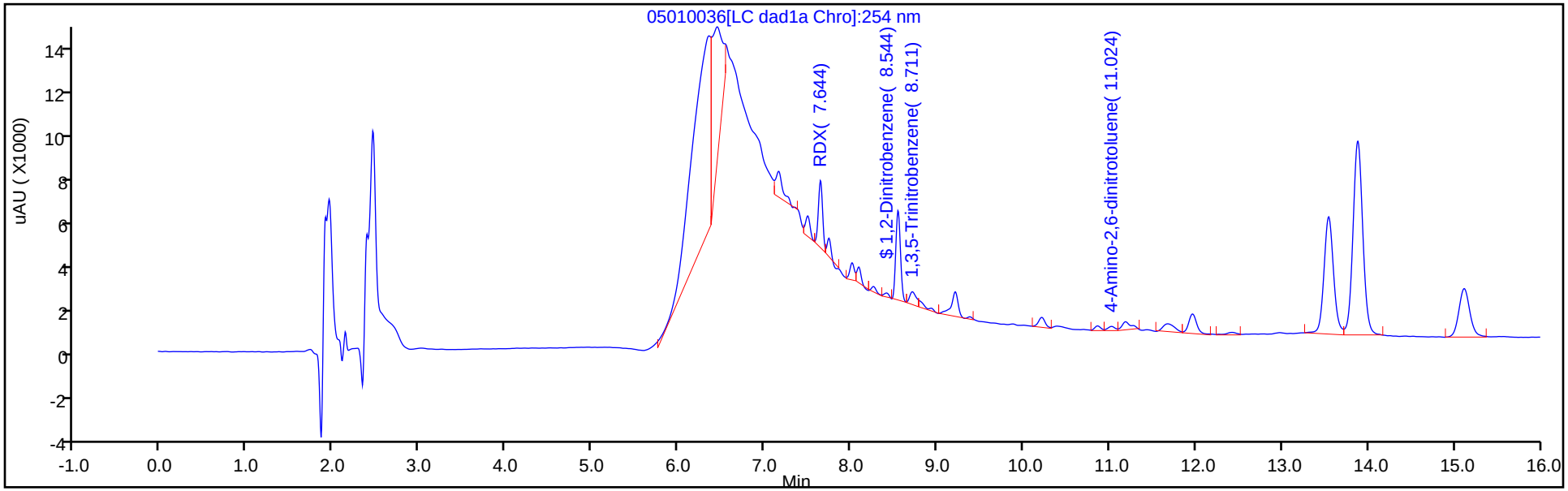
Report Date: 14-May-2024 14:09:35 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

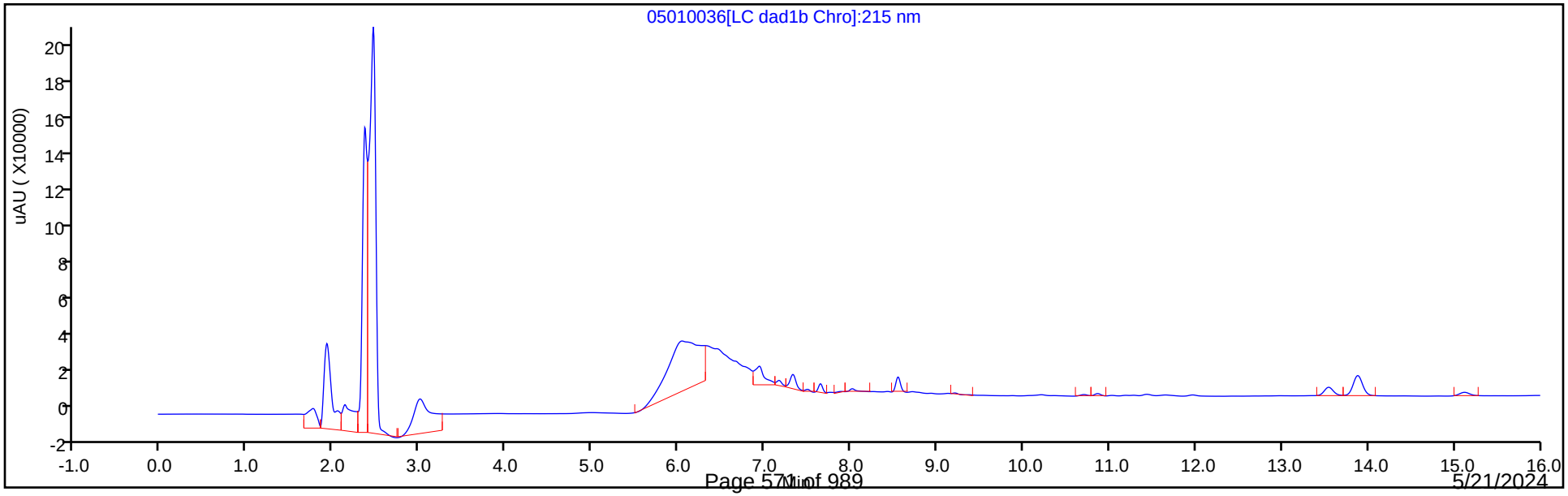
Data File: \\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010036.d

Injection Date:	11-May-2024 18:20:25	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-191168-A-2-A	Lab Sample ID:	280-191168-2	Worklist Smp#:	36
Client ID:	FWGmw-021-240401-GW				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\05010036.D				
Lims ID:	280-191168-A-2-A				
Client ID:	FWGmw-021-240401-GW				
Sample Type:	Client				
Inject. Date:	11-May-2024 18:20:25	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-191168-A-2-A				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	14-May-2024 14:09:25	Calib Date:	18-Apr-2024 03:08:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1620				

First Level Reviewer: LV5D Date: 14-May-2024 12:51:19

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1170	58.49

Manual Integration/User Assign Peak Report

Eurofins Denver

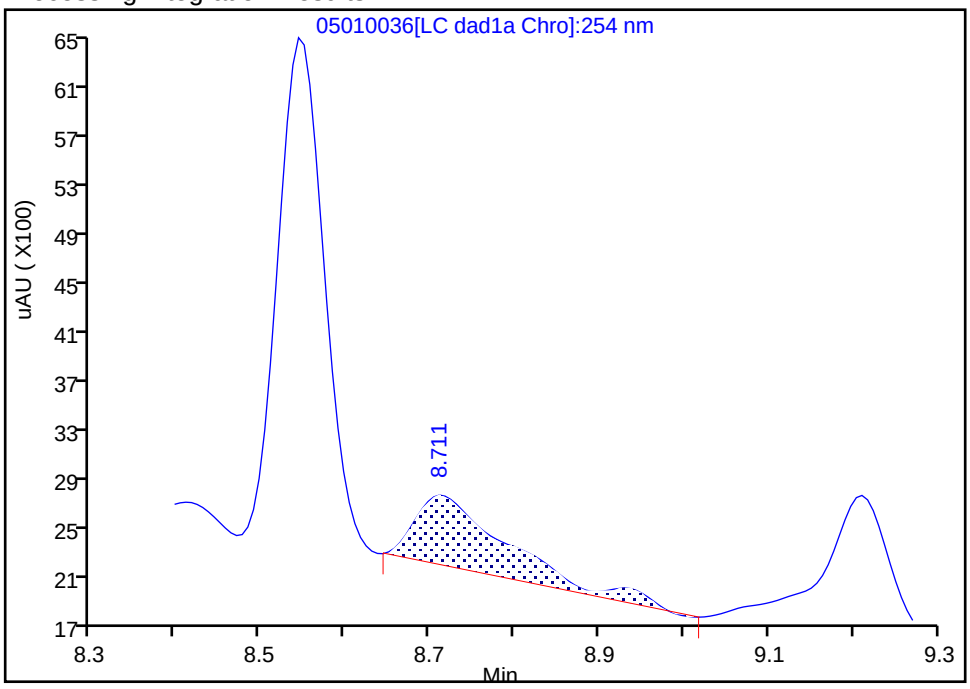
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010036.d				
Injection Date:	11-May-2024 18:20:25	Instrument ID:	CHHPLC_X3		
Lims ID:	280-191168-A-2-A	Lab Sample ID:	280-191168-2		
Client ID:	FWGmw-021-240401-GW				
Operator ID:	JZ	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

11 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

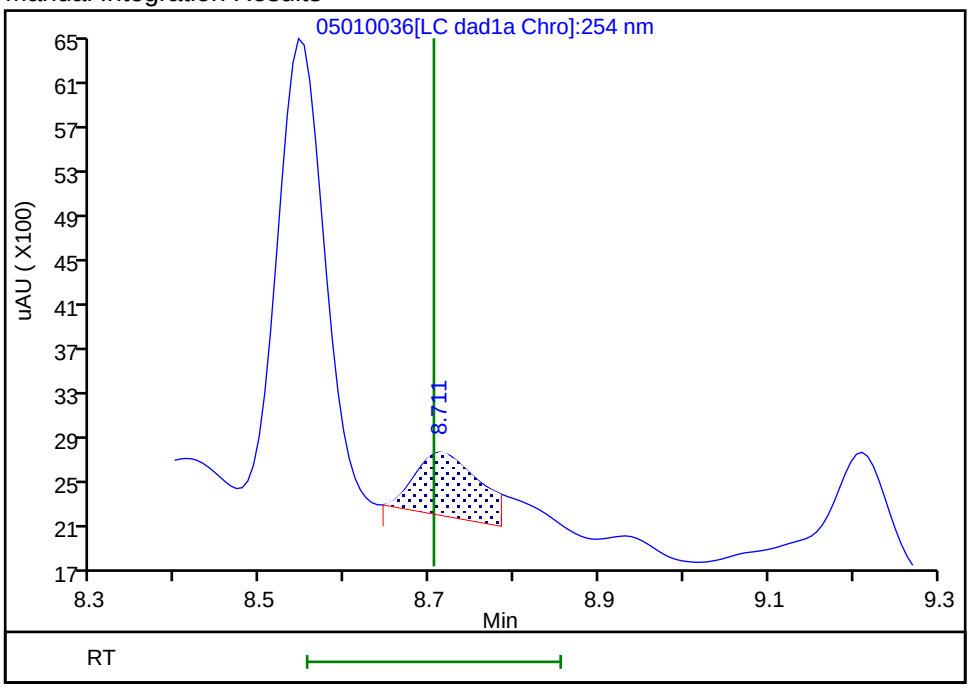
Processing Integration Results

RT: 8.71
Area: 4669
Amount: 0.020951
Amount Units: ug/mL



Manual Integration Results

RT: 8.71
Area: 3003
Amount: 0.013475
Amount Units: ug/mL



Reviewer: LV5D, 14-May-2024 12:51:18 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

User Disabled Compound Report

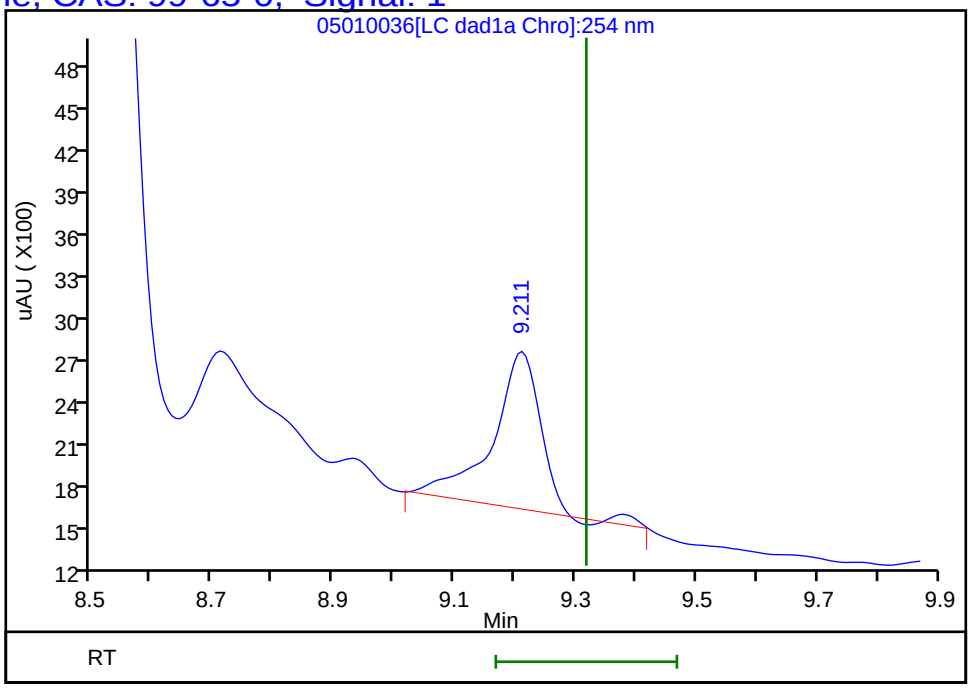
Eurofins Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010036.d
Injection Date: 11-May-2024 18:20:25 Instrument ID: CHHPLC_X3
Lims ID: 280-191168-A-2-A Lab Sample ID: 280-191168-2
Client ID: FWGmw-021-240401-GW
Operator ID: JZ ALS Bottle#: 36 Worklist Smp#: 36
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

12 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.21
Response: 6467
Amount: 0.021597



Reviewer: LV5D, 14-May-2024 12:51:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

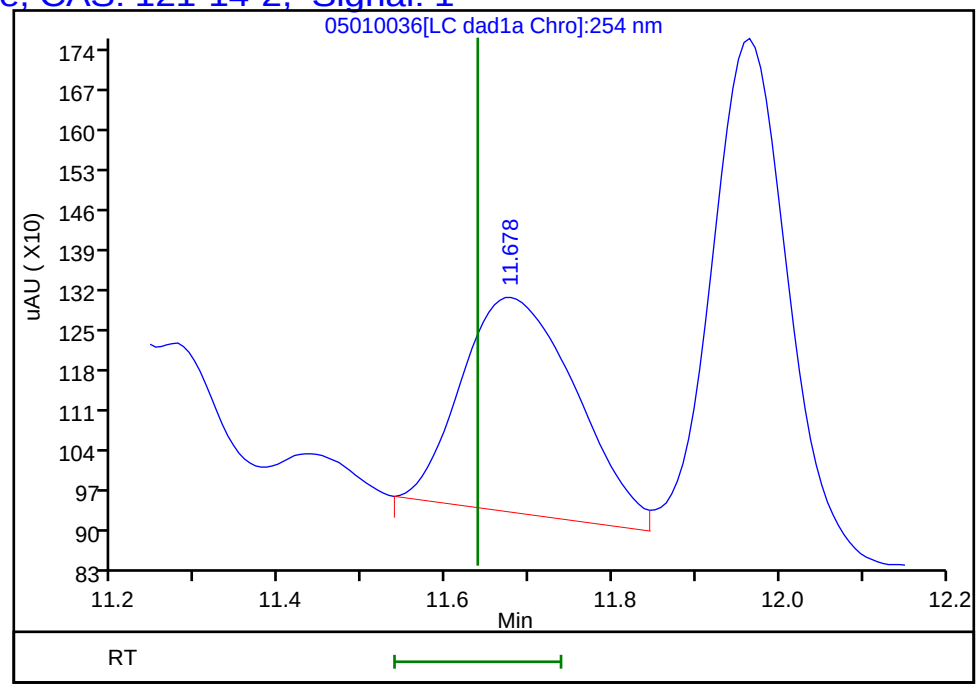
Eurofins Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010036.d
Injection Date: 11-May-2024 18:20:25 Instrument ID: CHHPLC_X3
Lims ID: 280-191168-A-2-A Lab Sample ID: 280-191168-2
Client ID: FWGmw-021-240401-GW
Operator ID: JZ ALS Bottle#: 36 Worklist Smp#: 36
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

21 2,4-Dinitrotoluene, CAS: 121-14-2, Signal: 1

RT: 11.68
Response: 3580
Amount: 0.012267



Reviewer: LV5D, 14-May-2024 12:51:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Client Sample ID: FWGmw-021-240401-GW | Lab Sample ID: 280-191168-2

Matrix: Water | Lab File ID: 05110018.D

Analysis Method: 8330B | Date Collected: 05/07/2024 11:14

Extraction Method: 3535 | Date Extracted: 05/10/2024 10:58

Sample wt/vol: 474.8(mL) | Date Analyzed: 05/11/2024 22:42

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 100(uL) | GC Column: Luna-phenylhex ID: 4.6(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653069 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.21	U Q	0.22	0.21	0.089
121-82-4	RDX	0.21	U M Q	0.22	0.21	0.054

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	60	Q	83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240511-133288.b\05110018.D
Lims ID: 280-191168-A-2-A
Client ID: FWGmw-021-240401-GW
Sample Type: Client
Inject. Date: 11-May-2024 22:42:02 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-191168-A-2-A
Operator ID: JZ Instrument ID: CHHPLC_X5

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20240511-133288.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 14-May-2024 18:12:33 Calib Date: 28-Mar-2024 05:53:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1620

First Level Reviewer: LV5D Date: 14-May-2024 18:08:45

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
5 HMX	1		6.631			ND	
8 RDX	1		8.664			ND	U
9 Nitrobenzene	1		11.317			ND	
$ 10 1,2-Dinitrobenzene	1	12.314	12.311	0.003	31943	0.1209	
12 1,3-Dinitrobenzene	1		14.517			ND	
13 Nitroglycerin	2		14.751			ND	
14 o-Nitrotoluene	1	15.414	15.431	-0.017	85384	0.3452	
16 p-Nitrotoluene	1		15.691			ND	
17 4-Amino-2,6-dinitrotoluene	1		16.144			ND	
18 m-Nitrotoluene	1		16.544			ND	
19 2-Amino-4,6-dinitrotoluene	1	16.974	17.017	-0.043	17599	0.0417	M
20 1,3,5-Trinitrobenzene	1		17.464			ND	
21 2,6-Dinitrotoluene	1		18.424			ND	
22 2,4-Dinitrotoluene	1		18.911			ND	
23 Tetryl	1		22.211			ND	U
24 2,4,6-Trinitrotoluene	1		23.191			ND	
25 PETN	2		24.164			ND	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
U - Marked Undetected

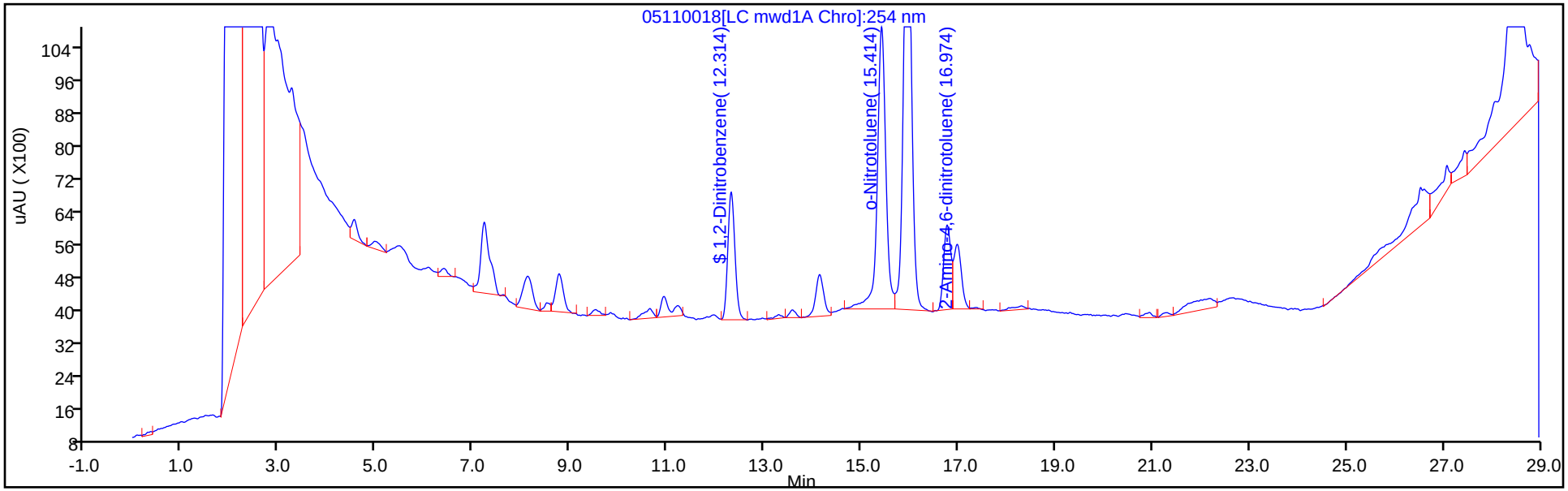
Report Date: 14-May-2024 18:12:36 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

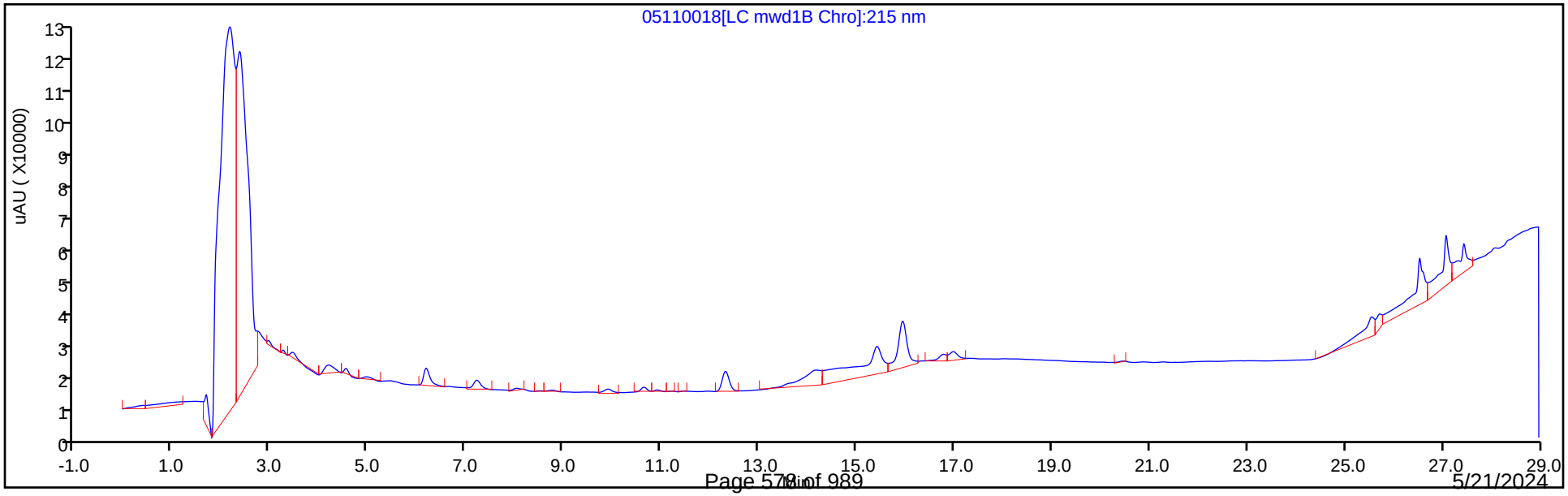
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240511-133288.b\05110018.D

Injection Date:	11-May-2024 22:42:02	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	280-191168-A-2-A	Lab Sample ID:	280-191168-2	Worklist Smp#:	18
Client ID:	FWGmw-021-240401-GW				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240511-133288.b\05110018.D				
Lims ID:	280-191168-A-2-A				
Client ID:	FWGmw-021-240401-GW				
Sample Type:	Client				
Inject. Date:	11-May-2024 22:42:02	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-191168-A-2-A				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240511-133288.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	14-May-2024 18:12:33	Calib Date:	28-Mar-2024 05:53:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270027.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1620				
First Level Reviewer: LV5D		Date:	14-May-2024 18:08:45		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1209	60.46

Manual Integration/User Assign Peak Report

Eurofins Denver

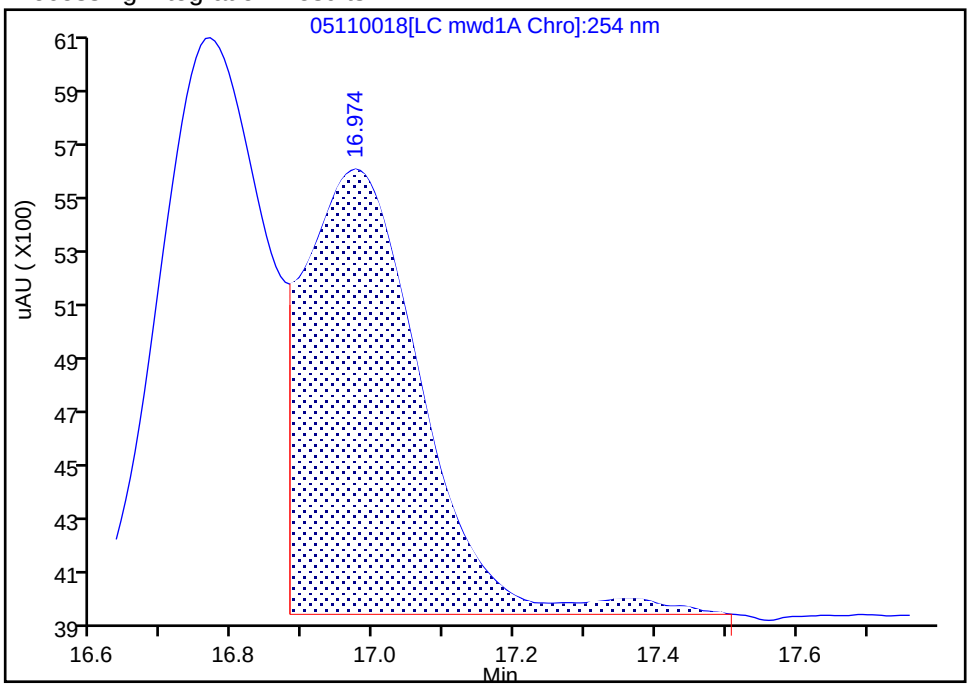
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240511-133288.b\05110018.D				
Injection Date:	11-May-2024 22:42:02	Instrument ID:	CHHPLC_X5		
Lims ID:	280-191168-A-2-A	Lab Sample ID:	280-191168-2		
Client ID:	FWGmw-021-240401-GW				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

19 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

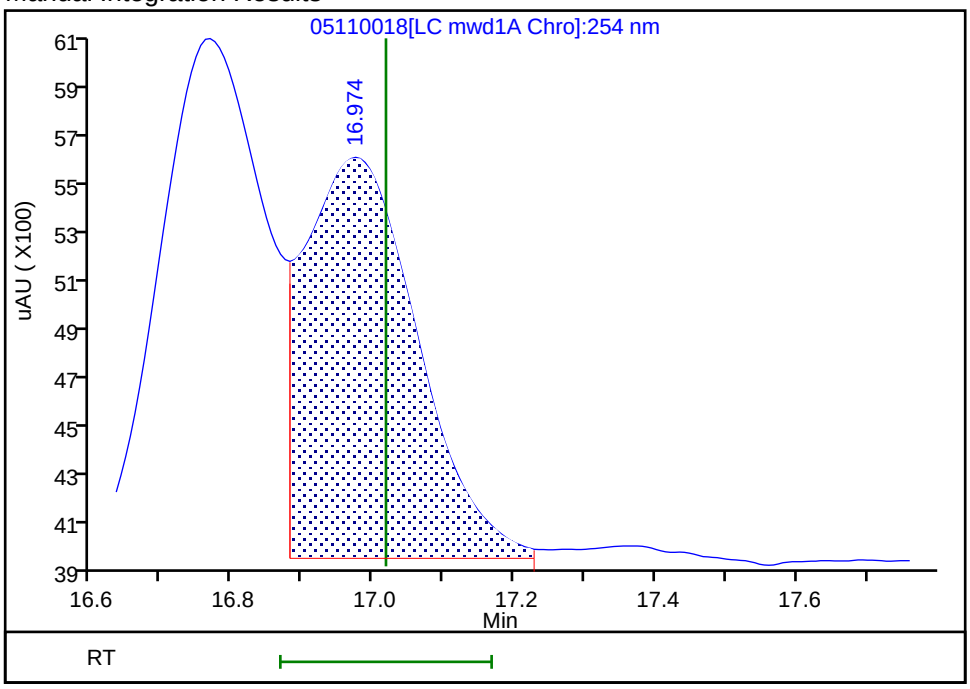
Processing Integration Results

RT: 16.97
Area: 18186
Amount: 0.043198
Amount Units: ug/ml



Manual Integration Results

RT: 16.97
Area: 17599
Amount: 0.041726
Amount Units: ug/ml



Reviewer: LV5D, 14-May-2024 18:08:44 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

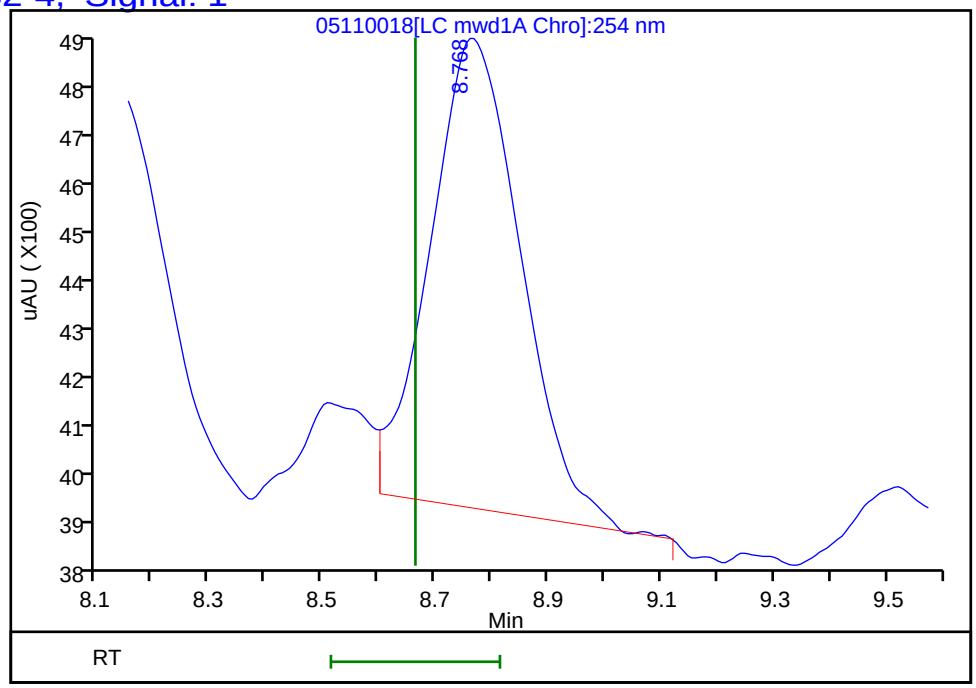
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240511-133288.b\05110018.D				
Injection Date:	11-May-2024 22:42:02	Instrument ID:	CHHPLC_X5		
Lims ID:	280-191168-A-2-A	Lab Sample ID:	280-191168-2		
Client ID:	FWGmw-021-240401-GW				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

8 RDX, CAS: 121-82-4, Signal: 1

RT: 8.77
Response: 10284
Amount: 0.048147



Reviewer: LV5D, 14-May-2024 18:08:45
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

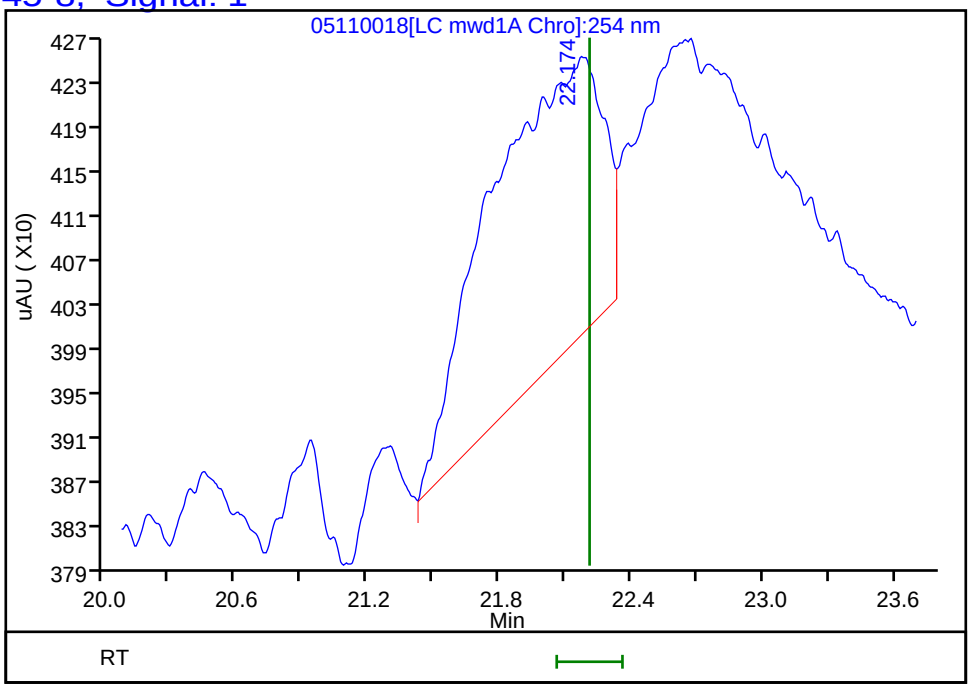
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240511-133288.b\05110018.D				
Injection Date:	11-May-2024 22:42:02	Instrument ID:	CHHPLC_X5		
Lims ID:	280-191168-A-2-A	Lab Sample ID:	280-191168-2		
Client ID:	FWGmw-021-240401-GW				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

23 Tetryl, CAS: 479-45-8, Signal: 1

RT: 22.17
Response: 9765
Amount: 0.029042



Reviewer: LV5D, 14-May-2024 18:08:45
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Client Sample ID: FWGmw-021-240401-GW RE | Lab Sample ID: 280-191168-2 RE

Matrix: Water | Lab File ID: 05170018.D

Analysis Method: 8330B | Date Collected: 05/07/2024 11:14

Extraction Method: 3535 | Date Extracted: 05/17/2024 13:10

Sample wt/vol: 444.5(mL) | Date Analyzed: 05/17/2024 23:04

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 100(uL) | GC Column: Luna-phenylhex ID: 4.6(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
35572-78-2	*2-Amino-4,6-dinitrotoluene*	*0.33*	*H J1*	*0.12*	0.11	*0.057*
19406-51-0	*4-Amino-2,6-dinitrotoluene*	*0.13*	*U H*	*0.17*	0.13	*0.065*
121-82-4	*RDX*	*0.22*	*U M H*	*0.24*	0.22	*0.058*

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	103		83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240517-133520.b\05170018.D
Lims ID: 280-191168-B-2-A RE
Client ID: FWGmw-021-240401-GW
Sample Type: Client
Inject. Date: 17-May-2024 23:04:26 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-191168-B-2-A
Operator ID: JZ Instrument ID: CHHPLC_X5

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20240517-133520.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 18-May-2024 16:46:59 Calib Date: 28-Mar-2024 05:53:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1674

First Level Reviewer: LV5D Date: 18-May-2024 16:39:48

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
5 HMX	1	6.615	6.664	-0.049	570	0.002974	7M
8 RDX	1		8.697			ND	U
9 Nitrobenzene	1		11.364			ND	7
$ 10 1,2-Dinitrobenzene	1	12.362	12.351	0.011	54593	0.2067	
12 1,3-Dinitrobenzene	1		14.571			ND	
13 Nitroglycerin	2		14.784			ND	U
14 o-Nitrotoluene	1	15.462	15.477	-0.015	26195	0.1059	
16 p-Nitrotoluene	1		15.737			ND	
17 4-Amino-2,6-dinitrotoluene	1		16.197			ND	
18 m-Nitrotoluene	1		16.591			ND	
19 2-Amino-4,6-dinitrotoluene	1	17.029	17.071	-0.042	12810	0.0297	
20 1,3,5-Trinitrobenzene	1		17.524			ND	
21 2,6-Dinitrotoluene	1		18.491			ND	
22 2,4-Dinitrotoluene	1		18.977			ND	
23 Tetryl	1		22.277			ND	
24 2,4,6-Trinitrotoluene	1		23.257			ND	
25 PETN	2		24.191			ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
U - Marked Undetected

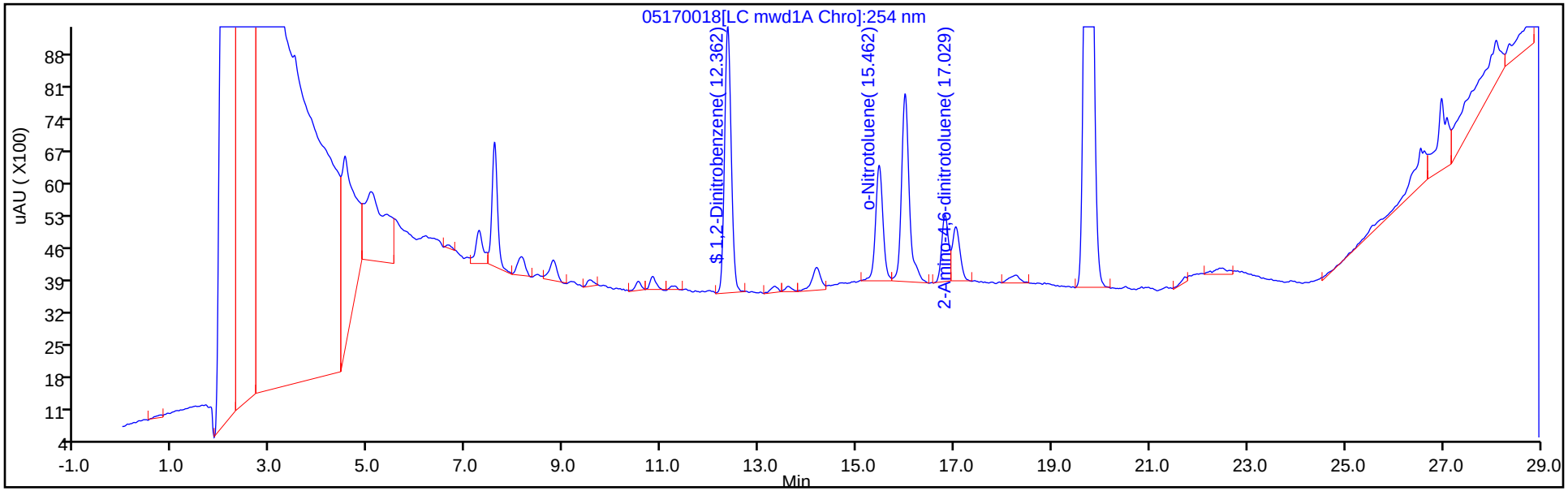
Report Date: 18-May-2024 16:47:02 Chrom Revision: 2.3 14-May-2024 14:23:08

Eurofins Denver

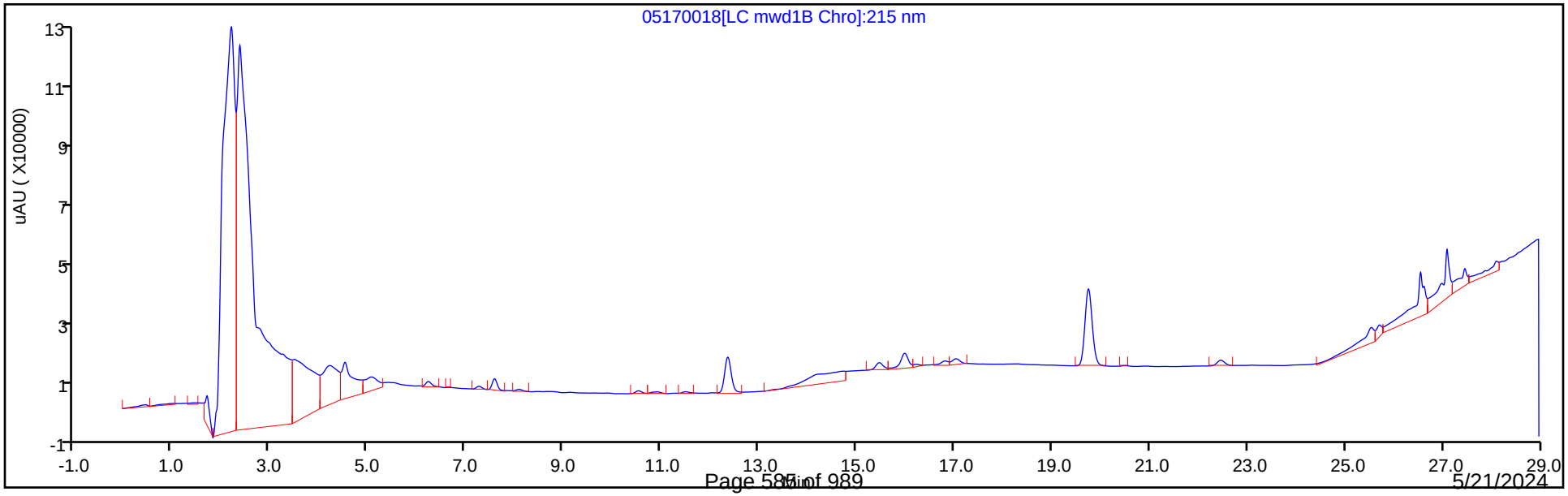
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240517-133520.b\05170018.D

Injection Date:	17-May-2024 23:04:26	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	280-191168-B-2-A RE	Lab Sample ID:	280-191168-2	Worklist Smp#:	18
Client ID:	FWGmw-021-240401-GW				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240517-133520.b\05170018.D				
Lims ID:	280-191168-B-2-A RE				
Client ID:	FWGmw-021-240401-GW				
Sample Type:	Client				
Inject. Date:	17-May-2024 23:04:26	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-191168-B-2-A				
Operator ID:	JZ	Instrument ID:	CHHPLC_X5		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240517-133520.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	18-May-2024 16:46:59	Calib Date:	28-Mar-2024 05:53:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270027.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1674				

First Level Reviewer: LV5D Date: 18-May-2024 16:39:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2067	103.34

Manual Integration/User Assign Peak Report

Eurofins Denver

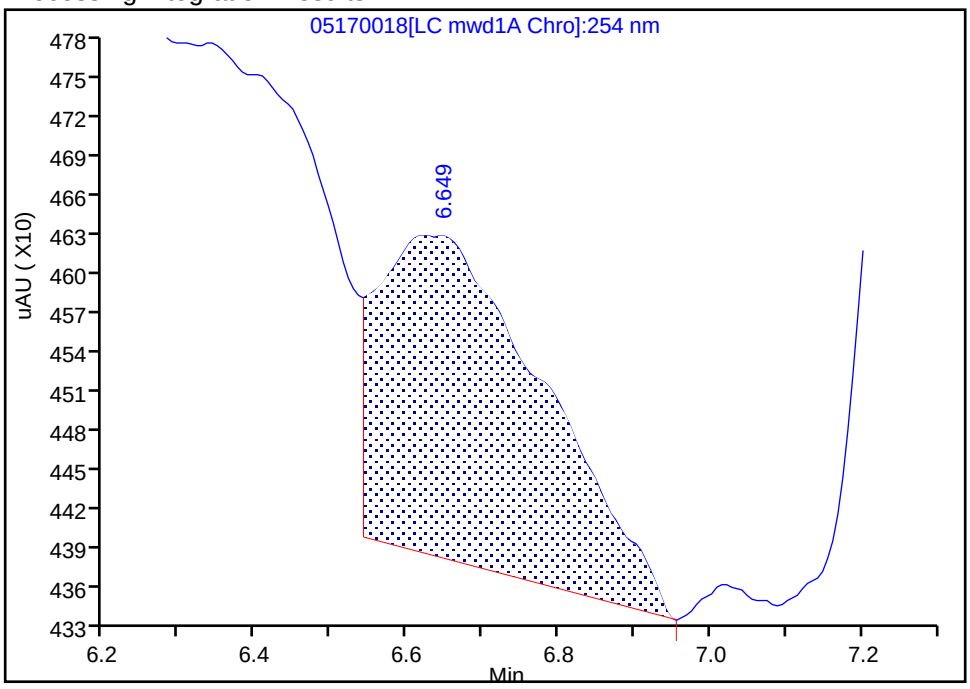
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240517-133520.b\05170018.D				
Injection Date:	17-May-2024 23:04:26	Instrument ID:	CHHPLC_X5		
Lims ID:	280-191168-B-2-A RE	Lab Sample ID:	280-191168-2		
Client ID:	FWGmw-021-240401-GW				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

5 HMX, CAS: 2691-41-0

Signal: 1

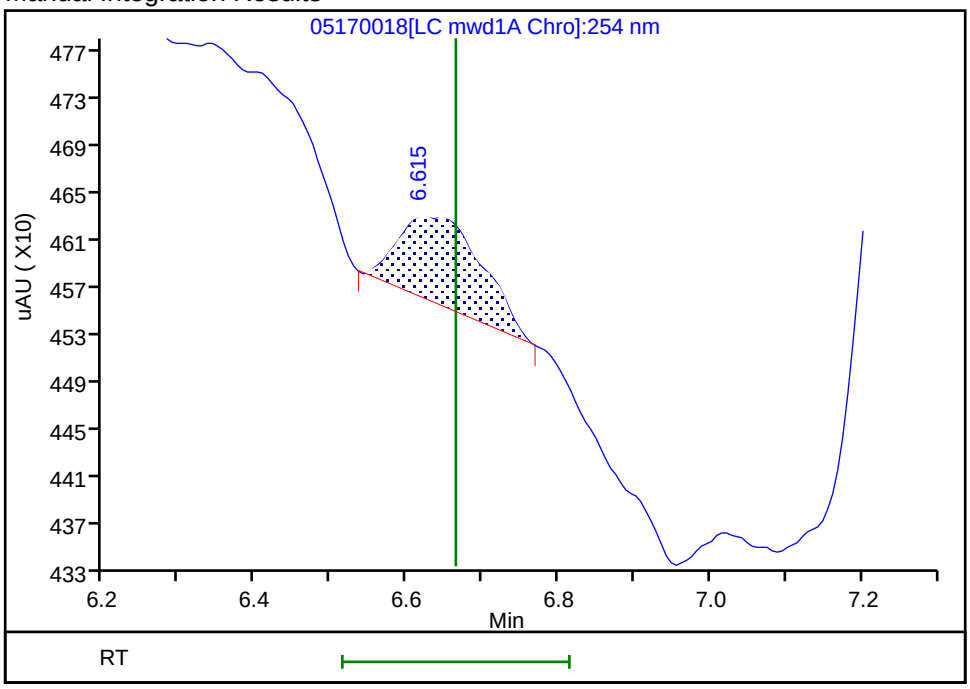
Processing Integration Results

RT: 6.65
Area: 3763
Amount: 0.019631
Amount Units: ug/ml



Manual Integration Results

RT: 6.62
Area: 570
Amount: 0.002974
Amount Units: ug/ml



Reviewer: LV5D, 18-May-2024 16:39:47 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

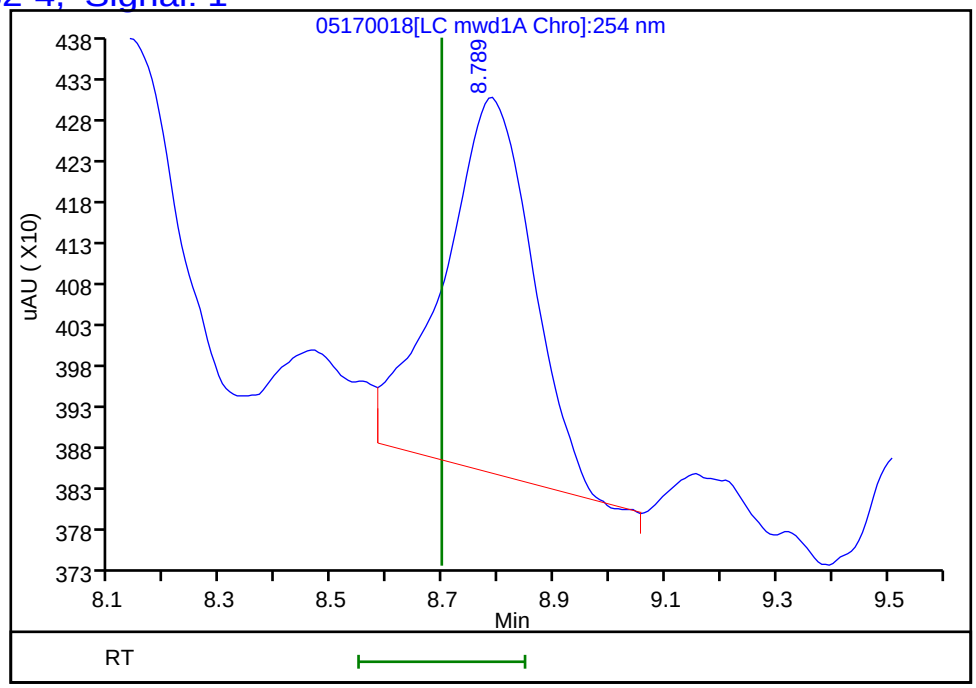
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240517-133520.b\05170018.D				
Injection Date:	17-May-2024 23:04:26	Instrument ID:	CHHPLC_X5		
Lims ID:	280-191168-B-2-A RE	Lab Sample ID:	280-191168-2		
Client ID:	FWGmw-021-240401-GW				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

8 RDX, CAS: 121-82-4, Signal: 1

RT: 8.79
Response: 5205
Amount: 0.024369



Reviewer: LV5D, 18-May-2024 16:39:48
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Client Sample ID: FWGmw-021-240401-GW RE | Lab Sample ID: 280-191168-2 RE

Matrix: Water | Lab File ID: 05170048.D

Analysis Method: 8330B | Date Collected: 05/07/2024 11:14

Extraction Method: 3535 | Date Extracted: 05/17/2024 13:10

Sample wt/vol: 444.5(mL) | Date Analyzed: 05/18/2024 05:09

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 100(uL) | GC Column: UltraCarb5uODS ID: 4.6(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653871 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	*1,3,5-Trinitrobenzene*	*0.22*	*U M H*	*0.24*	0.22	*0.095*
99-65-0	*1,3-Dinitrobenzene*	*0.11*	*U M H*	*0.12*	0.11	*0.042*
118-96-7	*2,4,6-Trinitrotoluene*	*0.11*	*U H*	*0.12*	0.11	*0.051*
121-14-2	*2,4-Dinitrotoluene*	*0.090*	*U M H*	*0.11*	0.090	*0.031*
606-20-2	*2,6-Dinitrotoluene*	*0.090*	*U H*	*0.11*	0.090	*0.045*
35572-78-2	*2-Amino-4,6-dinitrotoluene*	*0.13*	*H M J1*	*0.12*	0.11	*0.057*
88-72-2	*2-Nitrotoluene*	*0.22*	*U M H*	*0.24*	0.22	*0.096*
99-08-1	*3-Nitrotoluene*	*0.39*	*U H*	*0.45*	0.39	*0.22*
99-99-0	*4-Nitrotoluene*	*0.45*	*U H*	*0.46*	0.45	*0.11*
2691-41-0	*HMX*	*0.22*	*U H*	*0.24*	0.22	*0.099*
98-95-3	*Nitrobenzene*	*0.22*	*U H*	*0.24*	0.22	*0.10*
55-63-0	*Nitroglycerin*	*2.2*	*U H*	*2.4*	2.2	*1.0*
78-11-5	*PETN*	*1.1*	*U H*	*1.2*	1.1	*0.50*
479-45-8	*Tetryl*	*0.11*	*U H*	*0.12*	0.11	*0.036*

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	105		83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\05170048.D
Lims ID: 280-191168-B-2-A RE
Client ID: FWGmw-021-240401-GW
Sample Type: Client
Inject. Date: 18-May-2024 05:09:53 ALS Bottle#: 48 Worklist Smp#: 48
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-191168-B-2-A
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-May-2024 10:51:45 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1674

First Level Reviewer: LV5D Date: 18-May-2024 10:47:33

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
4 HMX	1		6.617			ND	
8 RDX	1	7.645	7.630	0.015	4738	0.0428	M
$ 10 1,2-Dinitrobenzene	1	8.552	8.557	-0.005	27685	0.2096	
11 1,3,5-Trinitrobenzene	1		8.697			ND	U
12 1,3-Dinitrobenzene	1		9.310			ND	U
13 Nitrobenzene	1		9.670			ND	
15 Tetryl	1		9.983			ND	
16 Nitroglycerin	2		10.457			ND	
17 2,4,6-Trinitrotoluene	1		10.883			ND	
18 4-Amino-2,6-dinitrotoluene	1	11.038	11.043	-0.005	1949	0.0130	M
19 2-Amino-4,6-dinitrotoluene	1	11.292	11.297	-0.005	2227	0.0111	M
20 2,6-Dinitrotoluene	1		11.450			ND	
21 2,4-Dinitrotoluene	1		11.623			ND	MU
22 o-Nitrotoluene	1		12.410			ND	U
23 p-Nitrotoluene	1		12.823			ND	
24 m-Nitrotoluene	1		13.370			ND	
25 PETN	2		14.437			ND	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
U - Marked Undetected

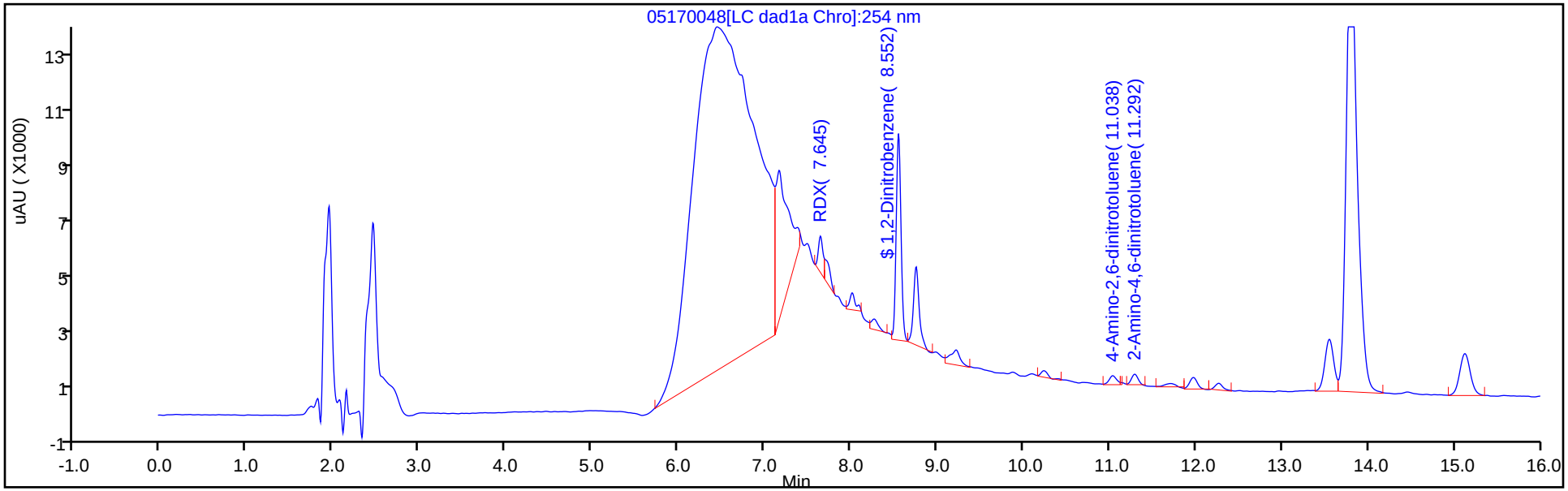
Report Date: 18-May-2024 10:51:51 Chrom Revision: 2.3 14-May-2024 14:23:08

Eurofins Denver

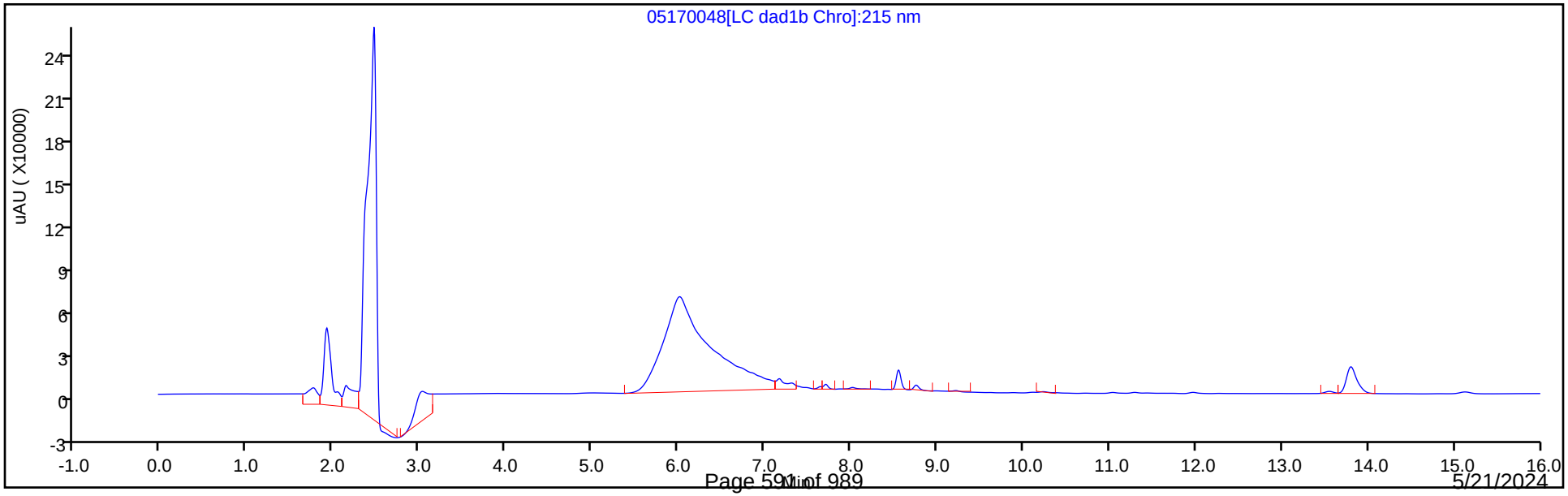
Data File: \\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170048.d

Injection Date:	18-May-2024 05:09:53	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-191168-B-2-A RE	Lab Sample ID:	280-191168-2	Worklist Smp#:	48
Client ID:	FWGmw-021-240401-GW				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	48
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\05170048.D				
Lims ID:	280-191168-B-2-A RE				
Client ID:	FWGmw-021-240401-GW				
Sample Type:	Client				
Inject. Date:	18-May-2024 05:09:53	ALS Bottle#:	48	Worklist Smp#:	48
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-191168-B-2-A				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	18-May-2024 10:51:45	Calib Date:	18-Apr-2024 03:08:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1674				

First Level Reviewer: LV5D Date: 18-May-2024 10:47:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2096	104.81

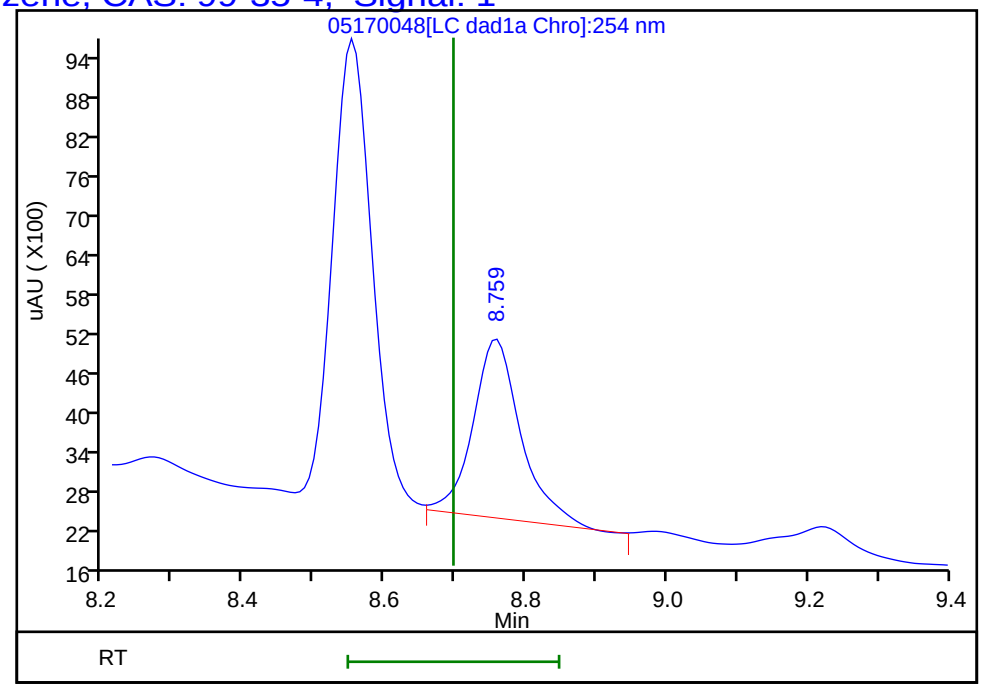
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170048.d				
Injection Date:	18-May-2024 05:09:53	Instrument ID:	CHHPLC_X3		
Lims ID:	280-191168-B-2-A RE	Lab Sample ID:	280-191168-2		
Client ID:	FWGmw-021-240401-GW				
Operator ID:	JZ	ALS Bottle#:	48	Worklist Smp#:	48
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

11 1,3,5-Trinitrobenzene, CAS: 99-35-4, Signal: 1

RT: 8.76
Response: 12899
Amount: 0.057881



Reviewer: LV5D, 18-May-2024 10:47:33
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

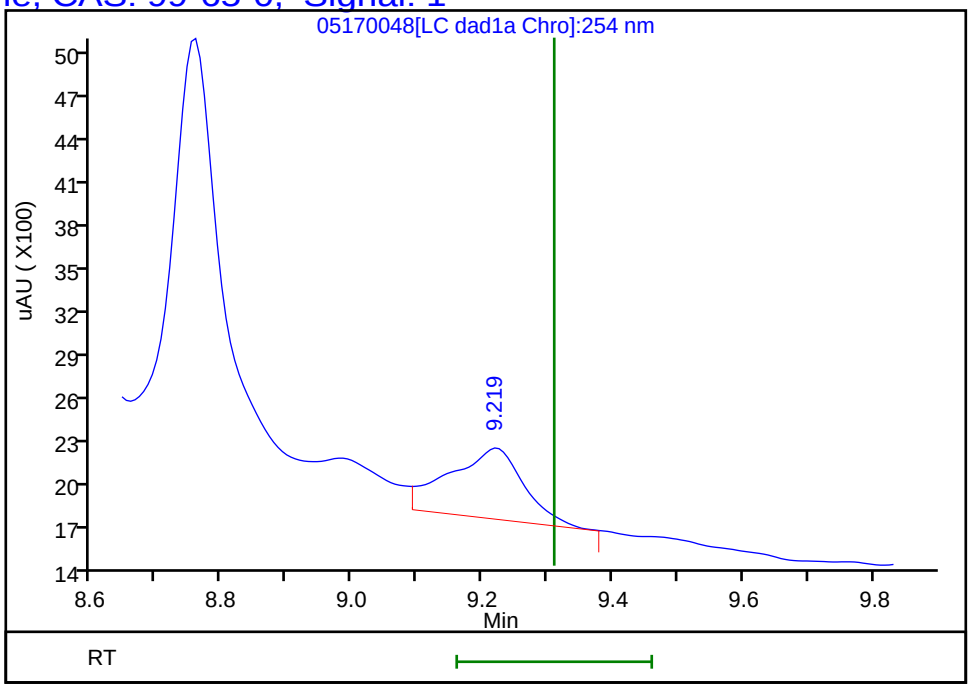
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170048.d				
Injection Date:	18-May-2024 05:09:53	Instrument ID:	CHHPLC_X3		
Lims ID:	280-191168-B-2-A RE	Lab Sample ID:	280-191168-2		
Client ID:	FWGmw-021-240401-GW				
Operator ID:	JZ	ALS Bottle#:	48	Worklist Smp#:	48
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.22
Response: 3790
Amount: 0.012657



Reviewer: LV5D, 18-May-2024 10:47:33
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

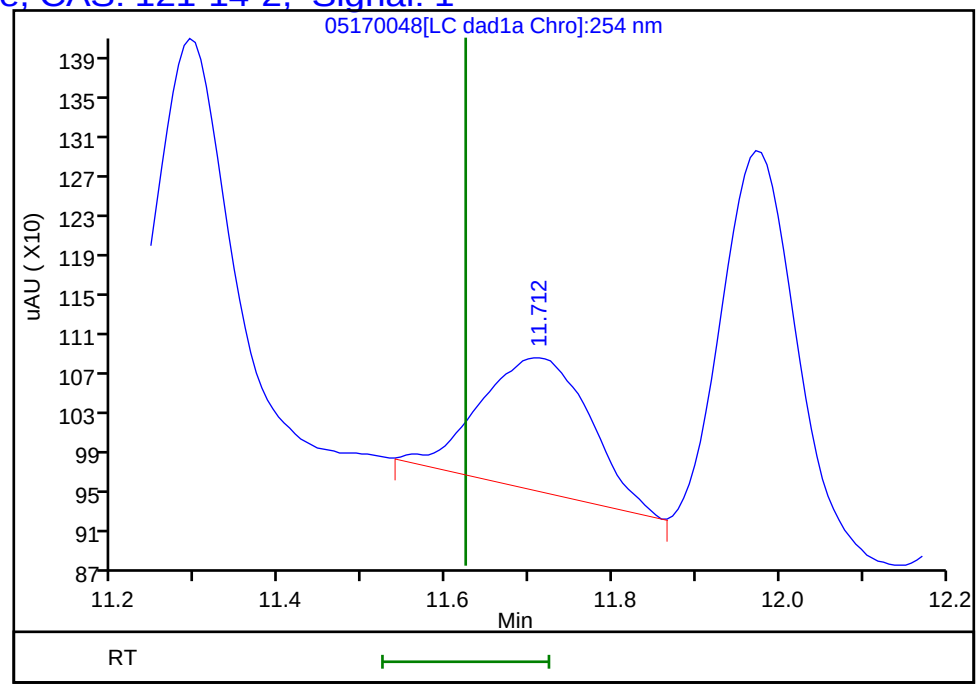
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170048.d				
Injection Date:	18-May-2024 05:09:53	Instrument ID:	CHHPLC_X3		
Lims ID:	280-191168-B-2-A RE	Lab Sample ID:	280-191168-2		
Client ID:	FWGmw-021-240401-GW				
Operator ID:	JZ	ALS Bottle#:	48	Worklist Smp#:	48
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2, Signal: 1

RT: 11.71
Response: 1219
Amount: 0.004177



Reviewer: LV5D, 18-May-2024 10:47:33
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

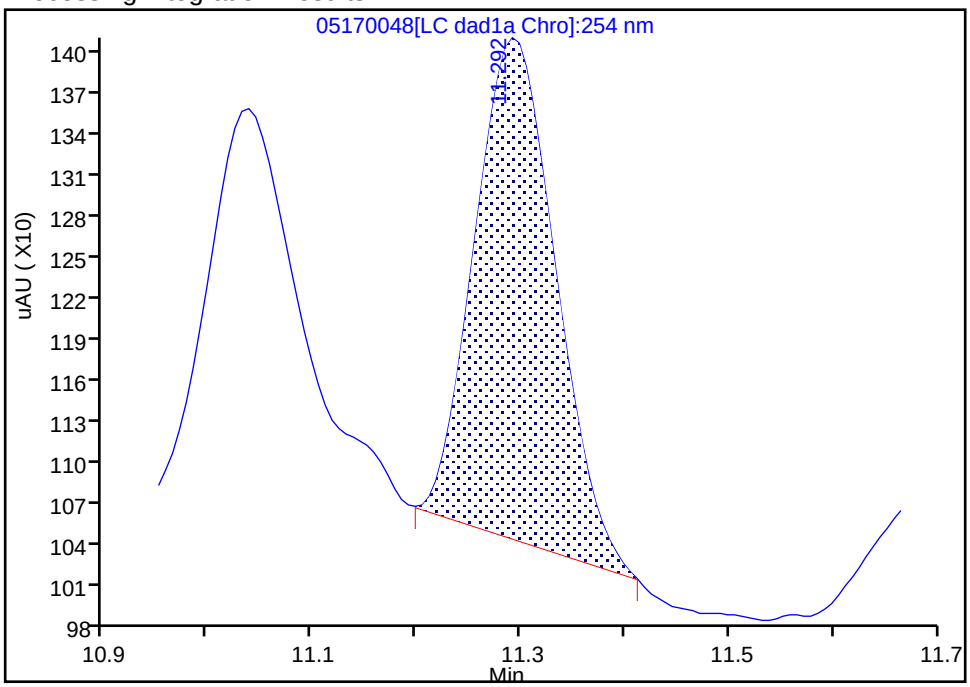
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170048.d				
Injection Date:	18-May-2024 05:09:53	Instrument ID:	CHHPLC_X3		
Lims ID:	280-191168-B-2-A RE	Lab Sample ID:	280-191168-2		
Client ID:	FWGmw-021-240401-GW				
Operator ID:	JZ	ALS Bottle#:	48	Worklist Smp#:	48
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

19 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

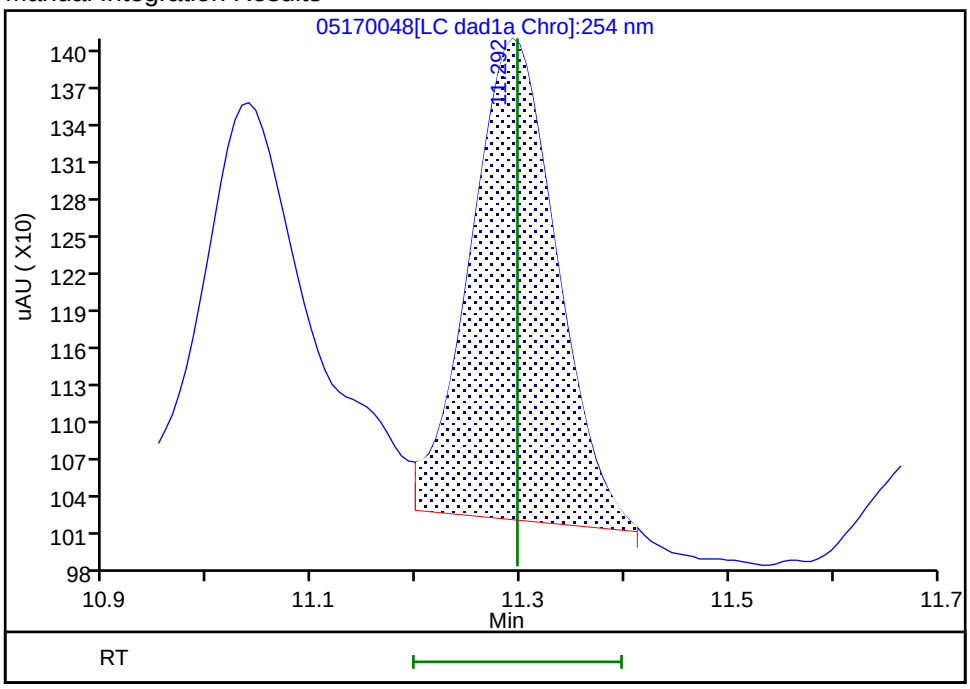
Processing Integration Results

RT: 11.29
Area: 1952
Amount: 0.009769
Amount Units: ug/mL



Manual Integration Results

RT: 11.29
Area: 2227
Amount: 0.011146
Amount Units: ug/mL



Reviewer: LV5D, 18-May-2024 10:47:28 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline

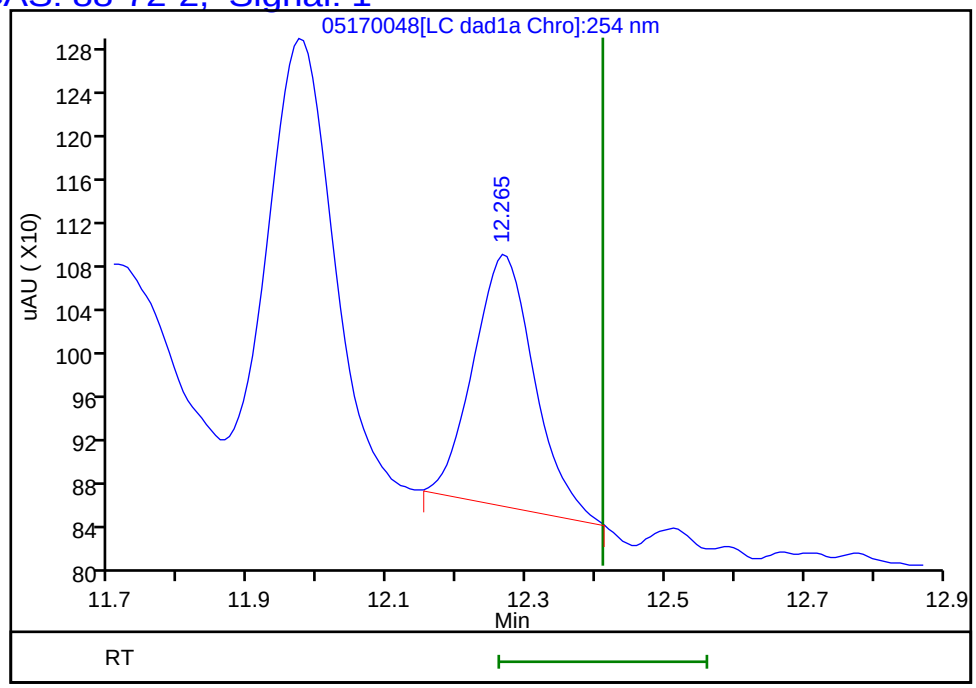
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170048.d				
Injection Date:	18-May-2024 05:09:53	Instrument ID:	CHHPLC_X3		
Lims ID:	280-191168-B-2-A RE	Lab Sample ID:	280-191168-2		
Client ID:	FWGmw-021-240401-GW				
Operator ID:	JZ	ALS Bottle#:	48	Worklist Smp#:	48
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

22 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 12.27
Response: 1403
Amount: 0.010850



Reviewer: LV5D, 18-May-2024 10:47:33
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Denver

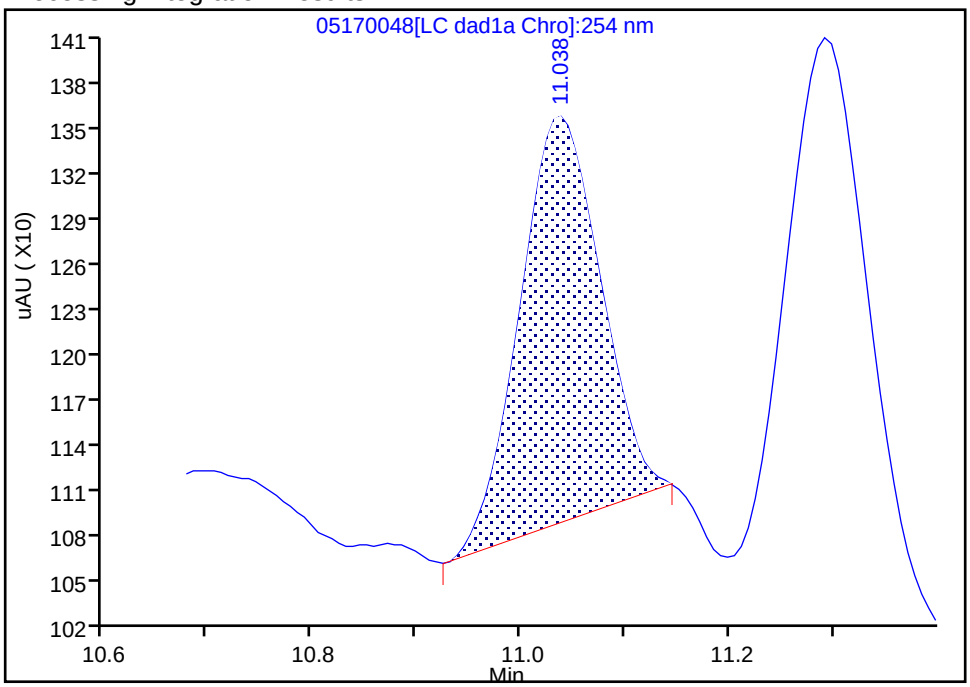
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170048.d				
Injection Date:	18-May-2024 05:09:53	Instrument ID:	CHHPLC_X3		
Lims ID:	280-191168-B-2-A RE	Lab Sample ID:	280-191168-2		
Client ID:	FWGmw-021-240401-GW				
Operator ID:	JZ	ALS Bottle#:	48	Worklist Smp#:	48
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

18 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

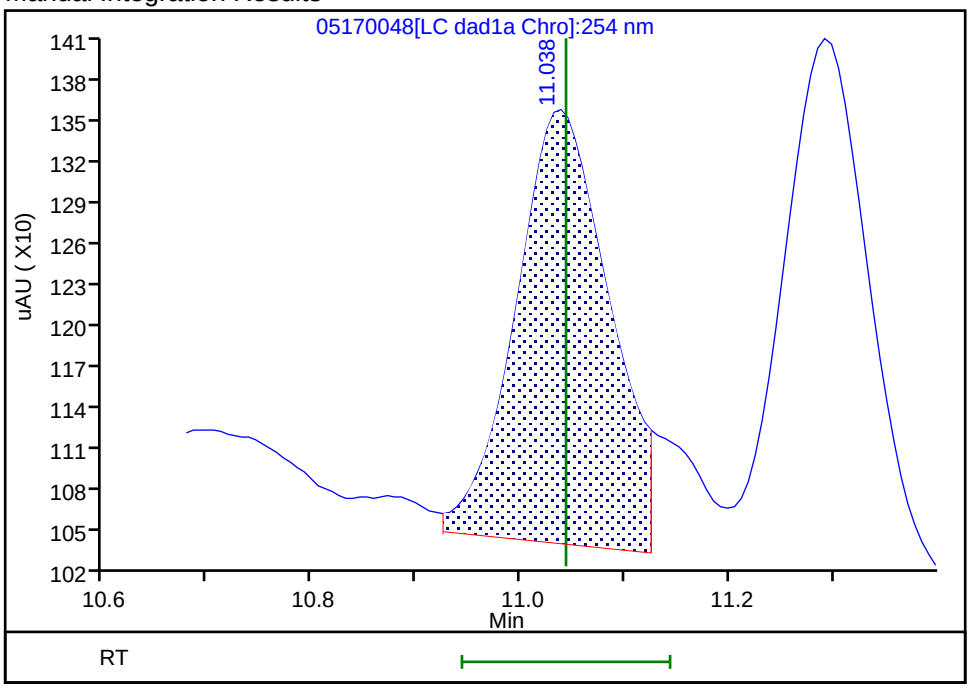
Processing Integration Results

RT: 11.04
Area: 1426
Amount: 0.009510
Amount Units: ug/mL



Manual Integration Results

RT: 11.04
Area: 1949
Amount: 0.012998
Amount Units: ug/mL



Reviewer: LV5D, 18-May-2024 10:47:32 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

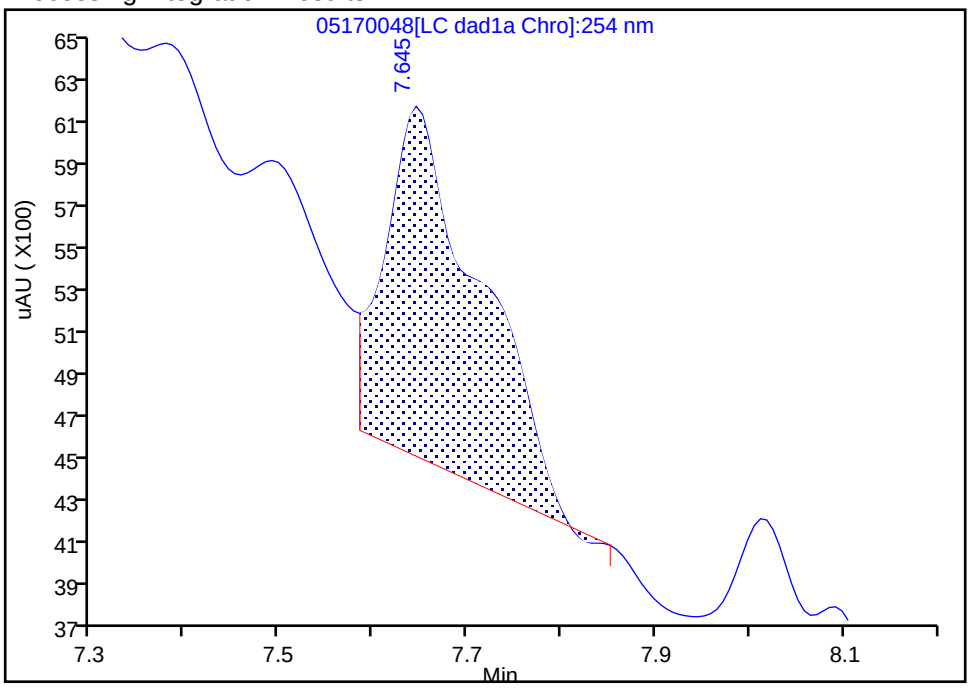
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170048.d				
Injection Date:	18-May-2024 05:09:53	Instrument ID:	CHHPLC_X3		
Lims ID:	280-191168-B-2-A RE	Lab Sample ID:	280-191168-2		
Client ID:	FWGmw-021-240401-GW				
Operator ID:	JZ	ALS Bottle#:	48	Worklist Smp#:	48
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

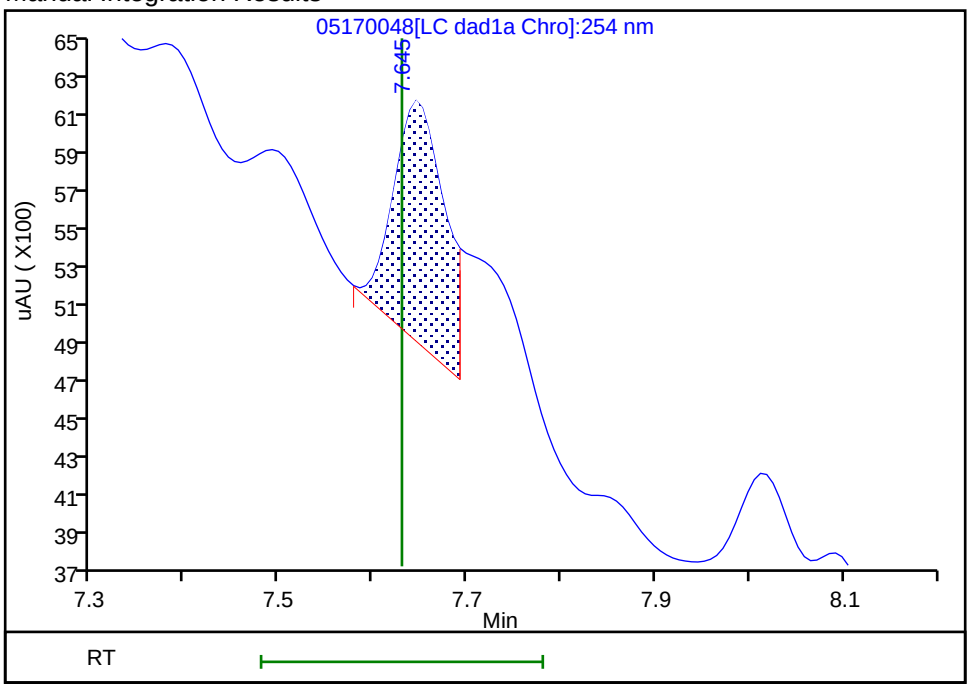
Processing Integration Results

RT: 7.65
Area: 11964
Amount: 0.108010
Amount Units: ug/mL



Manual Integration Results

RT: 7.65
Area: 4738
Amount: 0.042774
Amount Units: ug/mL



Reviewer: LV5D, 18-May-2024 10:47:18 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Client Sample ID: FWGmw-024-240401-GW | Lab Sample ID: 280-191168-3

Matrix: Water | Lab File ID: 05010037.D

Analysis Method: 8330B | Date Collected: 05/07/2024 13:08

Extraction Method: 3535 | Date Extracted: 05/10/2024 10:58

Sample wt/vol: 480.2(mL) | Date Analyzed: 05/11/2024 18:43

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 100(uL) | GC Column: UltraCarb5uODS ID: 4.6(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653063 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.21	U M Q	0.22	0.21	0.088
99-65-0	1,3-Dinitrobenzene	0.10	U Q	0.11	0.10	0.038
118-96-7	2,4,6-Trinitrotoluene	0.10	U Q	0.11	0.10	0.047
121-14-2	2,4-Dinitrotoluene	0.083	U Q	0.10	0.083	0.029
606-20-2	2,6-Dinitrotoluene	0.083	U Q	0.10	0.083	0.042
35572-78-2	2-Amino-4,6-dinitrotoluene	0.10	U Q	0.11	0.10	0.053
88-72-2	2-Nitrotoluene	0.21	U Q	0.22	0.21	0.089
99-08-1	3-Nitrotoluene	0.36	U Q	0.42	0.36	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	0.12	U Q	0.16	0.12	0.060
99-99-0	4-Nitrotoluene	0.42	U Q	0.43	0.42	0.10
2691-41-0	HMX	0.21	U M Q	0.22	0.21	0.091
98-95-3	Nitrobenzene	0.21	U Q	0.22	0.21	0.095
55-63-0	Nitroglycerin	2.1	U Q	2.2	2.1	0.96
78-11-5	PETN	1.0	U Q	1.1	1.0	0.47
121-82-4	RDX	0.21	U Q	0.22	0.21	0.054
479-45-8	Tetryl	0.10	U Q	0.11	0.10	0.033

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	49	M Q	83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\05010037.D
Lims ID: 280-191168-A-3-A
Client ID: FWGmw-024-240401-GW
Sample Type: Client
Inject. Date: 11-May-2024 18:43:26 ALS Bottle#: 37 Worklist Smp#: 37
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-191168-A-3-A
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 14-May-2024 14:09:25 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1620

First Level Reviewer: LV5D Date: 14-May-2024 12:53:19

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
4 HMX	1		6.611			ND	U
8 RDX	1		7.631			ND	
$ 10 1,2-Dinitrobenzene	1	8.552	8.565	-0.013	12954	0.0977	M
11 1,3,5-Trinitrobenzene	1	8.705	8.705	0.000	1482	0.006650	M
12 1,3-Dinitrobenzene	1		9.318			ND	
13 Nitrobenzene	1		9.671			ND	
15 Tetryl	1		9.991			ND	
16 Nitroglycerin	2		10.458			ND	
17 2,4,6-Trinitrotoluene	1		10.891			ND	
18 4-Amino-2,6-dinitrotoluene	1		11.064			ND	
19 2-Amino-4,6-dinitrotoluene	1		11.318			ND	
20 2,6-Dinitrotoluene	1		11.464			ND	
21 2,4-Dinitrotoluene	1		11.638			ND	
22 o-Nitrotoluene	1		12.418			ND	7
23 p-Nitrotoluene	1		12.831			ND	
24 m-Nitrotoluene	1		13.371			ND	
25 PETN	2		14.418			ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
U - Marked Undetected

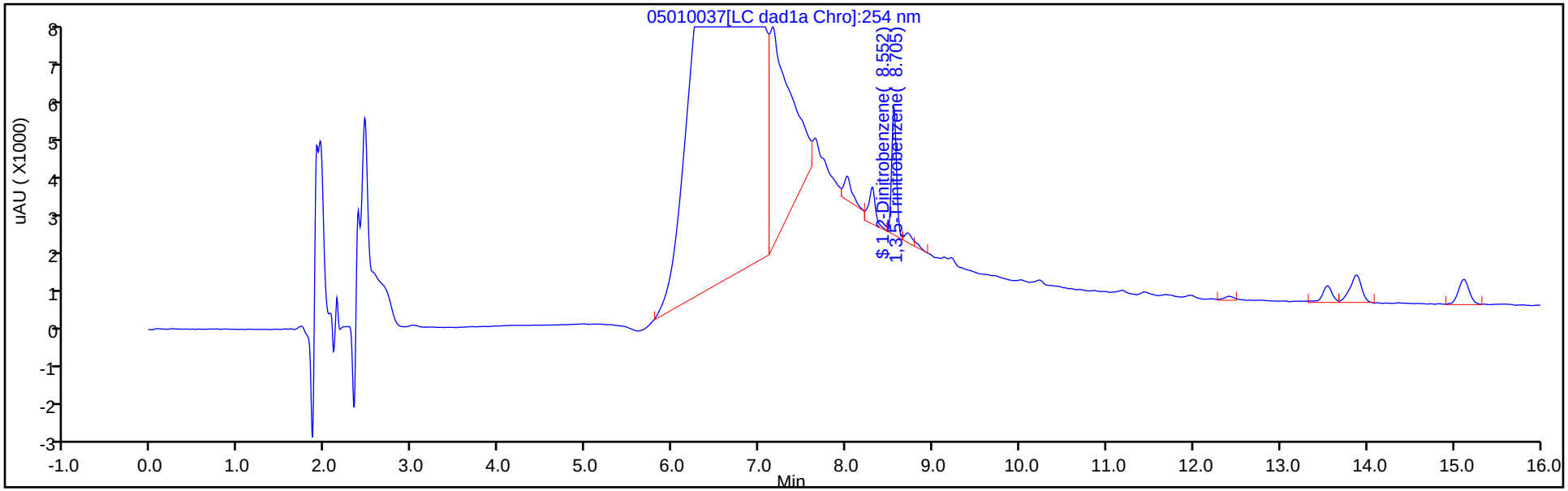
Report Date: 14-May-2024 14:09:36 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

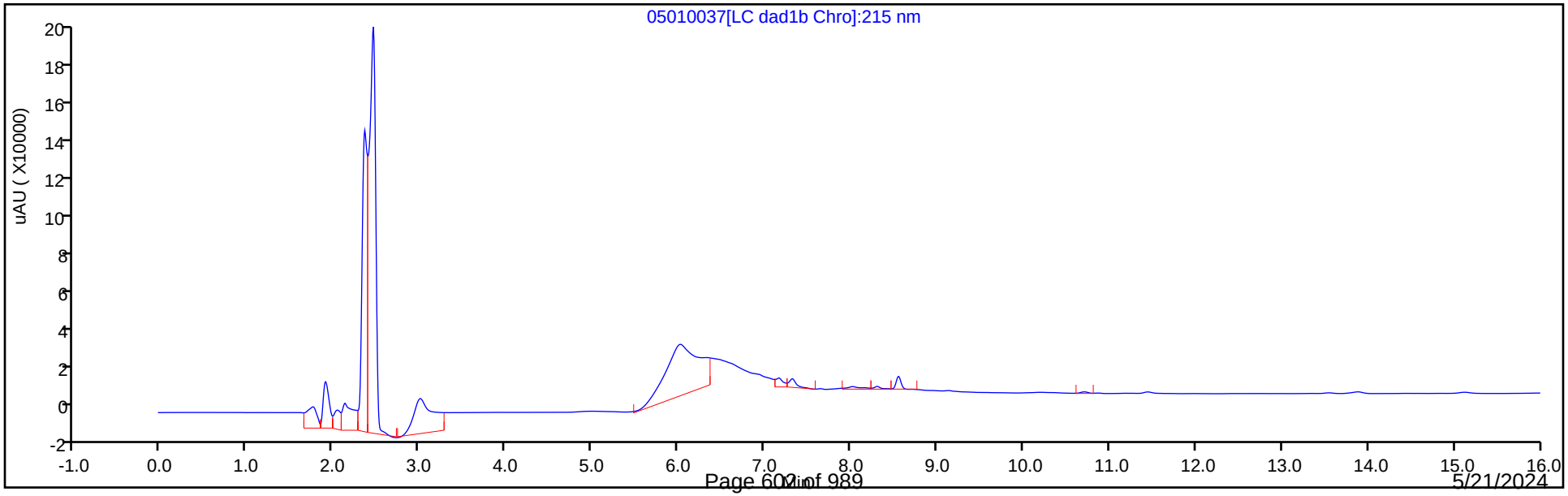
Data File: \\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010037.d

Injection Date:	11-May-2024 18:43:26	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-191168-A-3-A	Lab Sample ID:	280-191168-3	Worklist Smp#:	37
Client ID:	FWGmw-024-240401-GW				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\05010037.D				
Lims ID:	280-191168-A-3-A				
Client ID:	FWGmw-024-240401-GW				
Sample Type:	Client				
Inject. Date:	11-May-2024 18:43:26	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-191168-A-3-A				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	14-May-2024 14:09:25	Calib Date:	18-Apr-2024 03:08:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1620				

First Level Reviewer: LV5D Date: 14-May-2024 12:53:19

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.0977	48.85

Manual Integration/User Assign Peak Report

Eurofins Denver

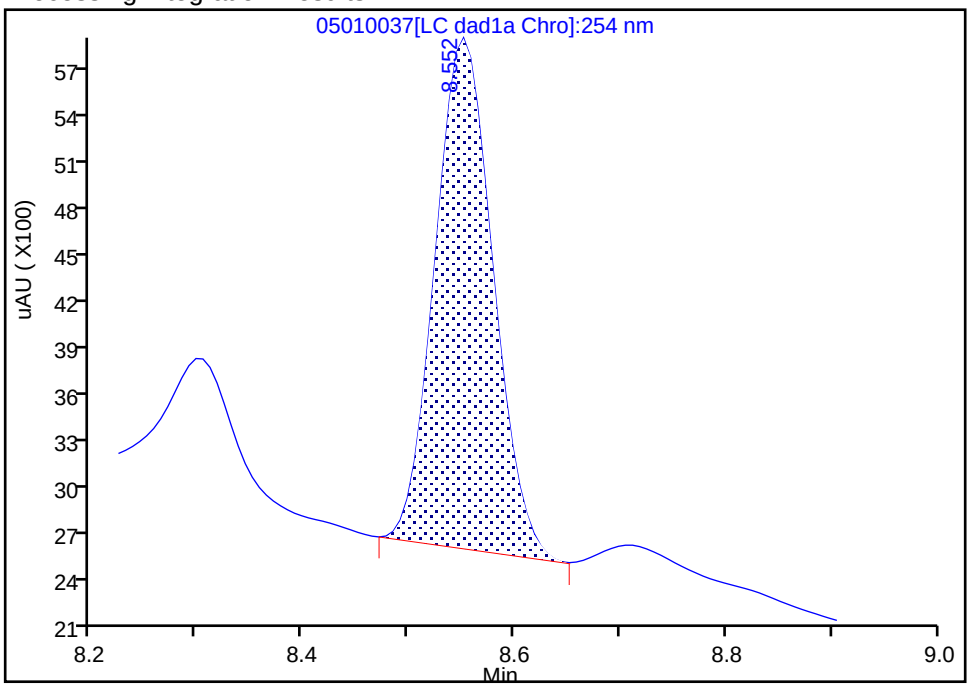
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010037.d				
Injection Date:	11-May-2024 18:43:26	Instrument ID:	CHHPLC_X3		
Lims ID:	280-191168-A-3-A	Lab Sample ID:	280-191168-3		
Client ID:	FWGmw-024-240401-GW				
Operator ID:	JZ	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

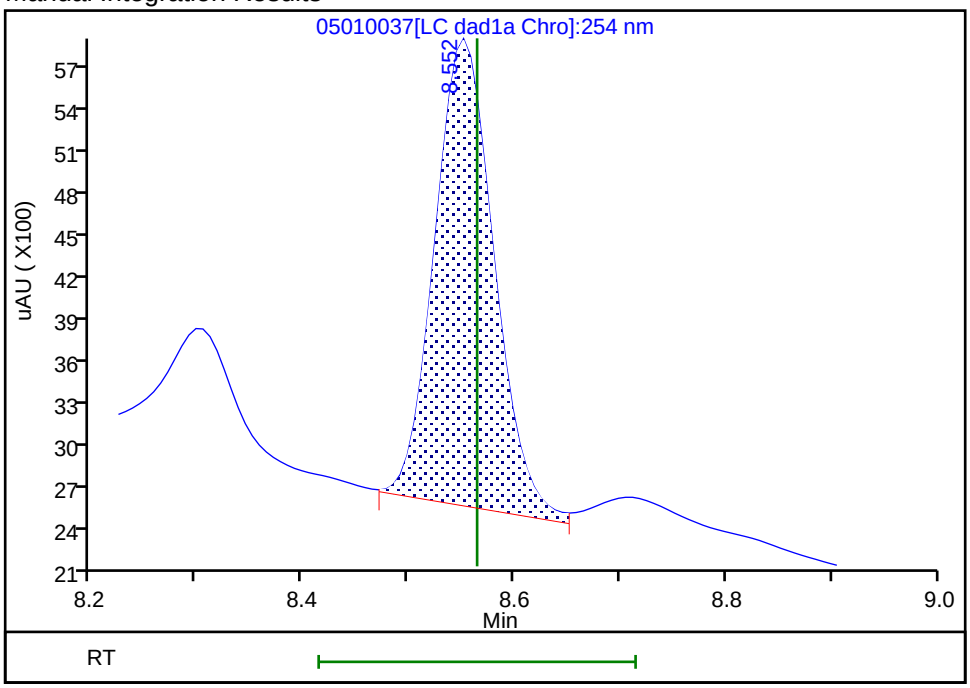
Processing Integration Results

RT: 8.55
Area: 12516
Amount: 0.094372
Amount Units: ug/mL



Manual Integration Results

RT: 8.55
Area: 12954
Amount: 0.097699
Amount Units: ug/mL



Reviewer: LV5D, 14-May-2024 12:53:12 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

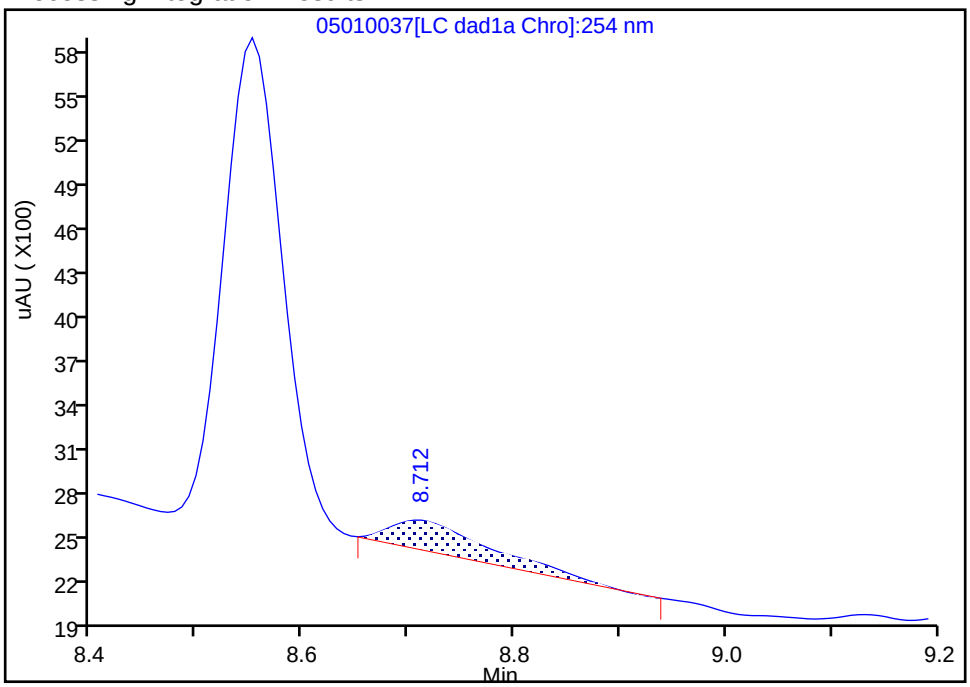
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010037.d				
Injection Date:	11-May-2024 18:43:26	Instrument ID:	CHHPLC_X3		
Lims ID:	280-191168-A-3-A	Lab Sample ID:	280-191168-3		
Client ID:	FWGmw-024-240401-GW				
Operator ID:	JZ	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

11 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

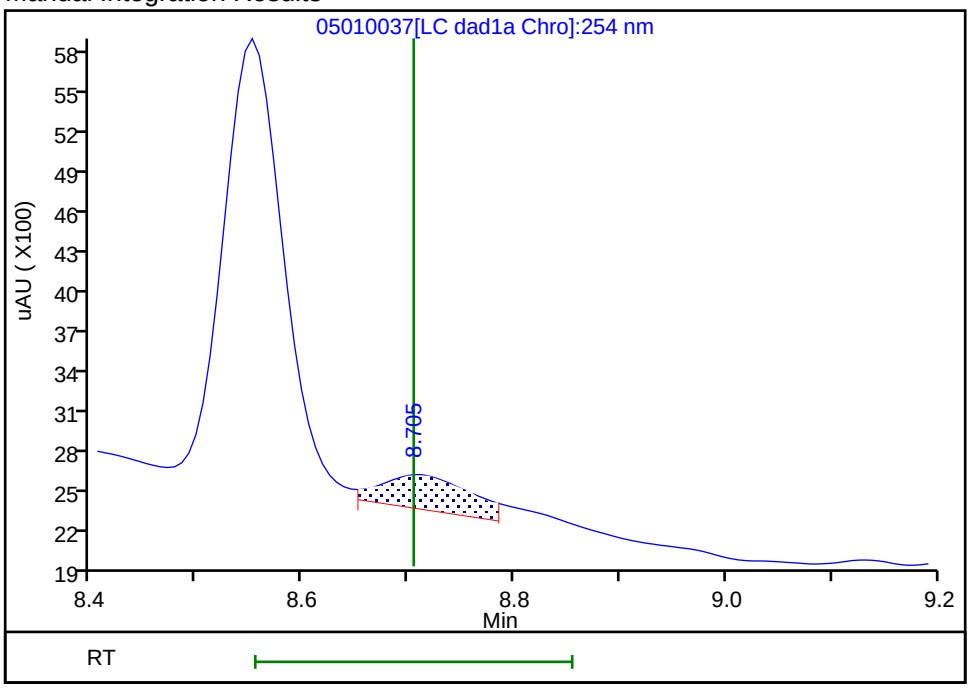
Processing Integration Results

RT: 8.71
Area: 1444
Amount: 0.006480
Amount Units: ug/mL



Manual Integration Results

RT: 8.71
Area: 1482
Amount: 0.006650
Amount Units: ug/mL



Reviewer: LV5D, 14-May-2024 12:53:18 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

User Disabled Compound Report

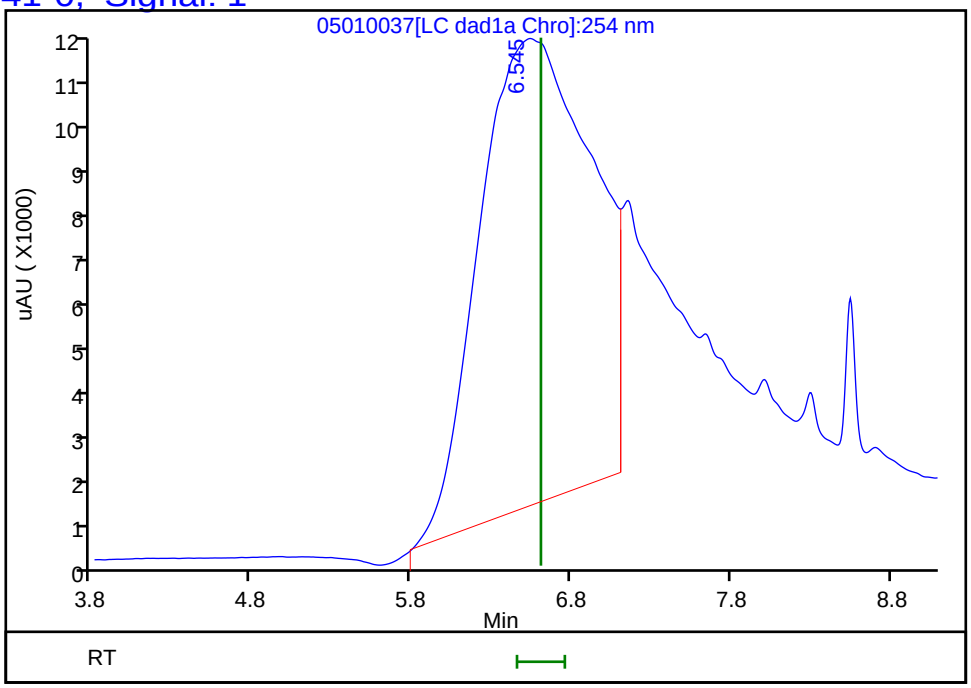
Eurofins Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010037.d
Injection Date: 11-May-2024 18:43:26 Instrument ID: CHHPLC_X3
Lims ID: 280-191168-A-3-A Lab Sample ID: 280-191168-3
Client ID: FWGmw-024-240401-GW
Operator ID: JZ ALS Bottle#: 37 Worklist Smp#: 37
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

4 HMX, CAS: 2691-41-0, Signal: 1

RT: 6.55
Response: 501009
Amount: 5.243767



Reviewer: LV5D, 14-May-2024 12:53:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Client Sample ID: FWGmw-024-240401-GW RE | Lab Sample ID: 280-191168-3 RE

Matrix: Water | Lab File ID: 05170049.D

Analysis Method: 8330B | Date Collected: 05/07/2024 13:08

Extraction Method: 3535 | Date Extracted: 05/17/2024 13:10

Sample wt/vol: 452(mL) | Date Analyzed: 05/18/2024 05:32

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 100(uL) | GC Column: UltraCarb5uODS ID: 4.6(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653871 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	*1,3,5-Trinitrobenzene*	*0.22*	*U M H*	*0.23*	0.22	*0.093*
99-65-0	*1,3-Dinitrobenzene*	*0.11*	*U M H*	*0.12*	0.11	*0.041*
118-96-7	*2,4,6-Trinitrotoluene*	*0.11*	*U H*	*0.12*	0.11	*0.050*
121-14-2	*2,4-Dinitrotoluene*	*0.088*	*U H*	*0.11*	0.088	*0.030*
606-20-2	*2,6-Dinitrotoluene*	*0.088*	*U H*	*0.11*	0.088	*0.044*
35572-78-2	*2-Amino-4,6-dinitrotoluene*	*0.11*	*U H*	*0.12*	0.11	*0.056*
88-72-2	*2-Nitrotoluene*	*0.22*	*U H*	*0.23*	0.22	*0.095*
99-08-1	*3-Nitrotoluene*	*0.39*	*U H*	*0.44*	0.39	*0.22*
19406-51-0	*4-Amino-2,6-dinitrotoluene*	*0.13*	*U H*	*0.17*	0.13	*0.064*
99-99-0	*4-Nitrotoluene*	*0.44*	*U H*	*0.45*	0.44	*0.11*
2691-41-0	*HMX*	*0.22*	*U M H*	*0.23*	0.22	*0.097*
98-95-3	*Nitrobenzene*	*0.22*	*U H*	*0.23*	0.22	*0.10*
55-63-0	*Nitroglycerin*	*2.2*	*U H*	*2.3*	2.2	*1.0*
78-11-5	*PETN*	*1.1*	*U H*	*1.2*	1.1	*0.49*
121-82-4	*RDX*	*0.22*	*U H*	*0.23*	0.22	*0.057*
479-45-8	*Tetryl*	*0.11*	*U H*	*0.12*	0.11	*0.035*

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	93	*M*	83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\05170049.D
Lims ID: 280-191168-B-3-A RE
Client ID: FWGmw-024-240401-GW
Sample Type: Client
Inject. Date: 18-May-2024 05:32:52 ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-191168-B-3-A
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-May-2024 10:51:45 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1674

First Level Reviewer: LV5D Date: 18-May-2024 10:47:51

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
4 HMX	1	6.618	6.617	0.001	168	0.001758	7M
8 RDX	1		7.630			ND	
$ 10 1,2-Dinitrobenzene	1	8.545	8.557	-0.012	24508	0.1855	M
11 1,3,5-Trinitrobenzene	1		8.697			ND	U
12 1,3-Dinitrobenzene	1		9.310			ND	U
13 Nitrobenzene	1		9.670			ND	
15 Tetryl	1		9.983			ND	
16 Nitroglycerin	2		10.457			ND	
17 2,4,6-Trinitrotoluene	1		10.883			ND	
18 4-Amino-2,6-dinitrotoluene	1		11.043			ND	
19 2-Amino-4,6-dinitrotoluene	1		11.297			ND	
20 2,6-Dinitrotoluene	1		11.450			ND	
21 2,4-Dinitrotoluene	1		11.623			ND	
22 o-Nitrotoluene	1		12.410			ND	
23 p-Nitrotoluene	1		12.823			ND	
24 m-Nitrotoluene	1		13.370			ND	
25 PETN	2		14.437			ND	

QC Flag Legend

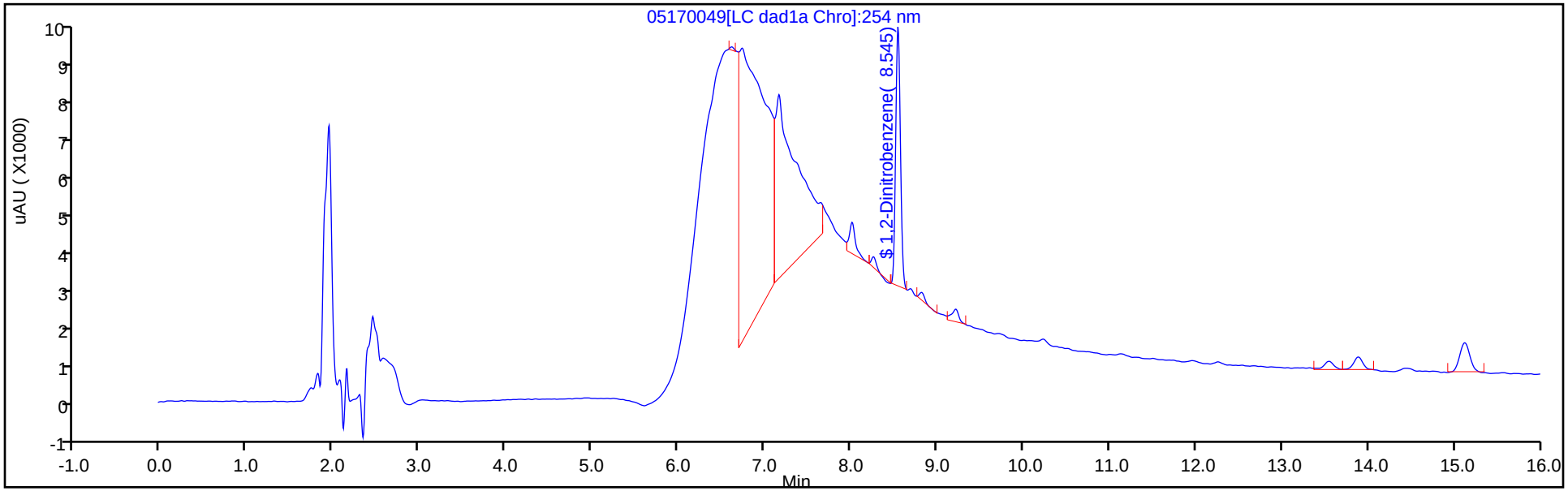
Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 18-May-2024 10:51:52 Chrom Revision: 2.3 14-May-2024 14:23:08

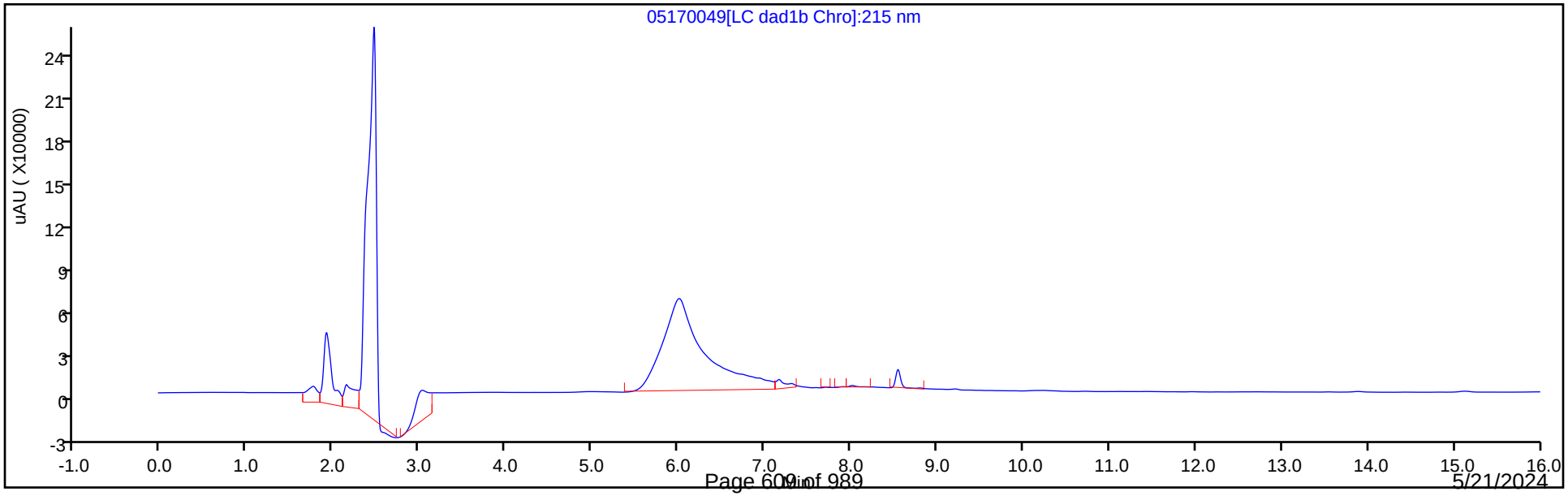
Eurofins Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170049.d				
Injection Date:	18-May-2024 05:32:52	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-191168-B-3-A RE	Lab Sample ID:	280-191168-3	Worklist Smp#:	49
Client ID:	FWGmw-024-240401-GW				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	49
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\05170049.D				
Lims ID:	280-191168-B-3-A RE				
Client ID:	FWGmw-024-240401-GW				
Sample Type:	Client				
Inject. Date:	18-May-2024 05:32:52	ALS Bottle#:	49	Worklist Smp#:	49
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-191168-B-3-A				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	18-May-2024 10:51:45	Calib Date:	18-Apr-2024 03:08:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1674				

First Level Reviewer: LV5D Date: 18-May-2024 10:47:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1855	92.74

Manual Integration/User Assign Peak Report

Eurofins Denver

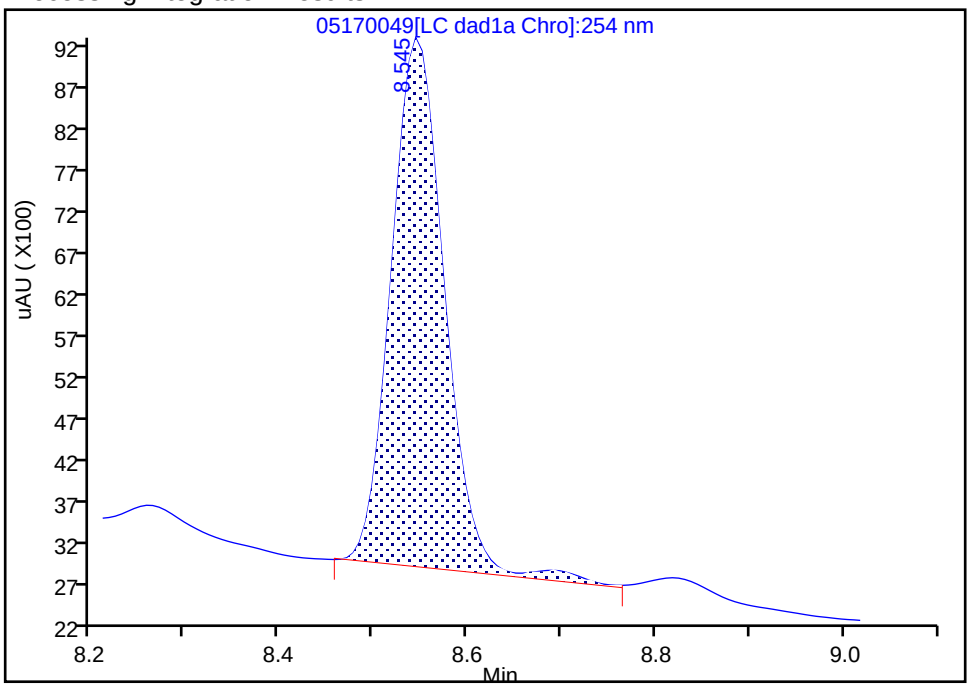
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170049.d				
Injection Date:	18-May-2024 05:32:52	Instrument ID:	CHHPLC_X3		
Lims ID:	280-191168-B-3-A RE	Lab Sample ID:	280-191168-3		
Client ID:	FWGmw-024-240401-GW				
Operator ID:	JZ	ALS Bottle#:	49	Worklist Smp#:	49
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

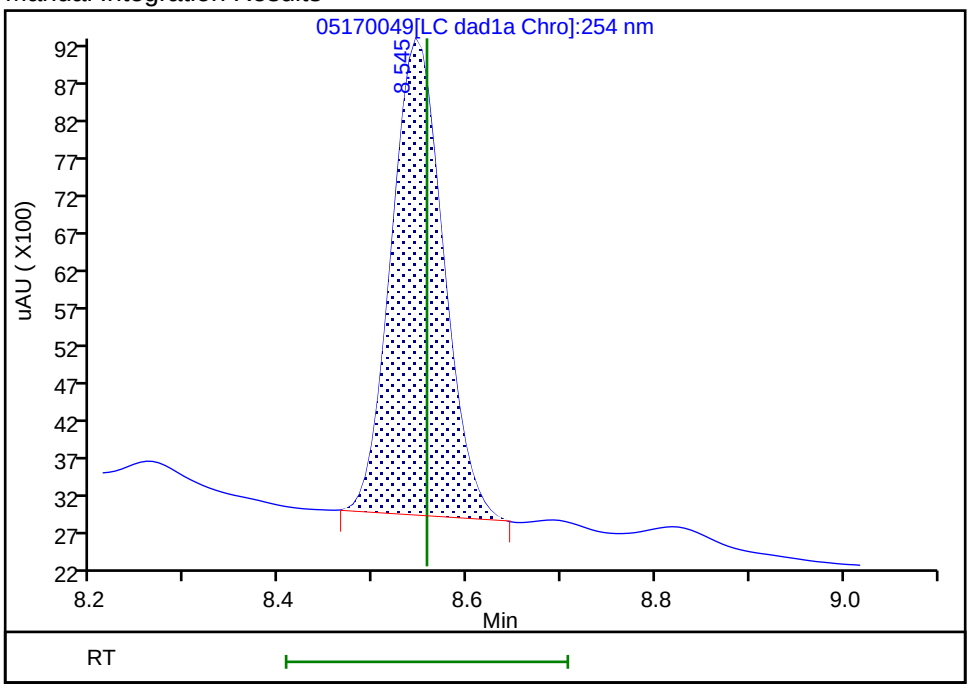
Processing Integration Results

RT: 8.54
Area: 25319
Amount: 0.191636
Amount Units: ug/mL



Manual Integration Results

RT: 8.54
Area: 24508
Amount: 0.185475
Amount Units: ug/mL



Reviewer: LV5D, 18-May-2024 10:47:50 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

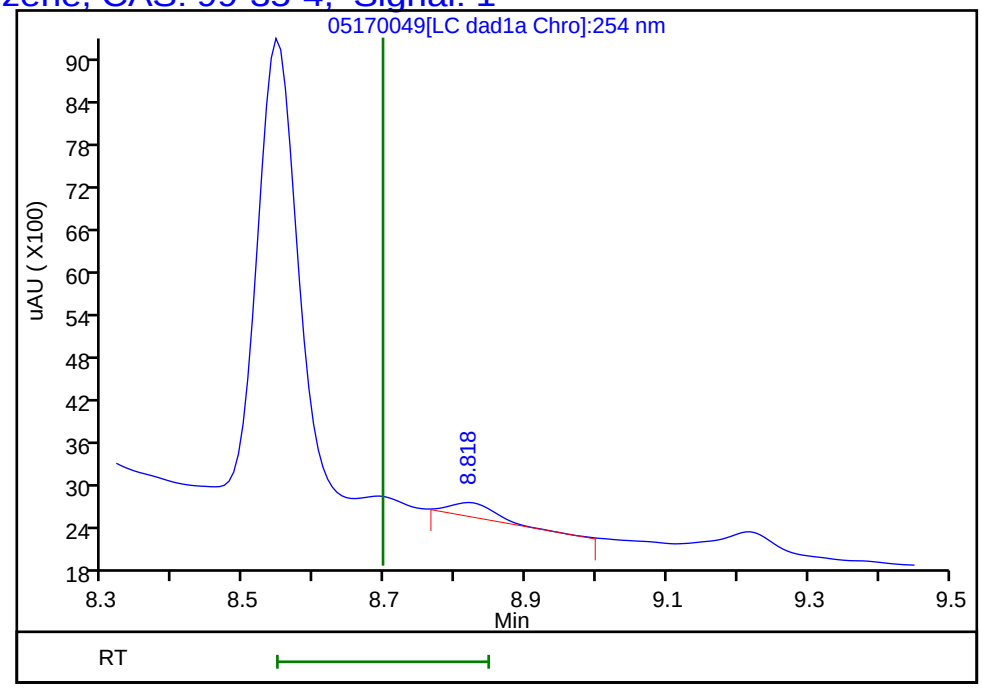
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170049.d				
Injection Date:	18-May-2024 05:32:52	Instrument ID:	CHHPLC_X3		
Lims ID:	280-191168-B-3-A RE	Lab Sample ID:	280-191168-3		
Client ID:	FWGmw-024-240401-GW				
Operator ID:	JZ	ALS Bottle#:	49	Worklist Smp#:	49
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

11 1,3,5-Trinitrobenzene, CAS: 99-35-4, Signal: 1

RT: 8.82
Response: 996
Amount: 0.004469



Reviewer: LV5D, 18-May-2024 10:47:51
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

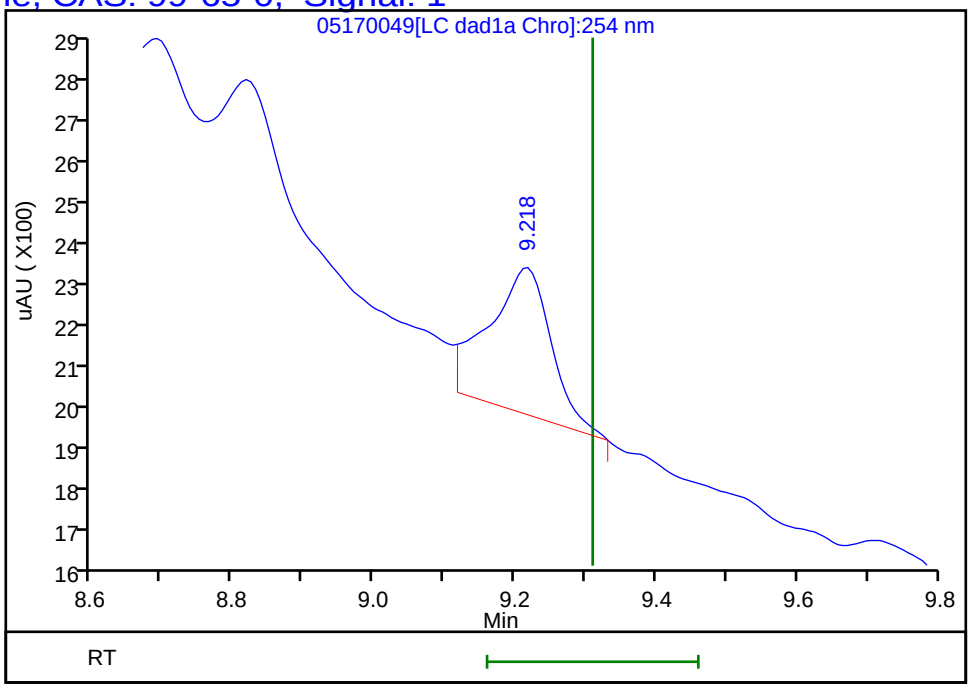
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170049.d				
Injection Date:	18-May-2024 05:32:52	Instrument ID:	CHHPLC_X3		
Lims ID:	280-191168-B-3-A RE	Lab Sample ID:	280-191168-3		
Client ID:	FWGmw-024-240401-GW				
Operator ID:	JZ	ALS Bottle#:	49	Worklist Smp#:	49
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.22
Response: 1943
Amount: 0.006489



Reviewer: LV5D, 18-May-2024 10:47:51
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins Denver

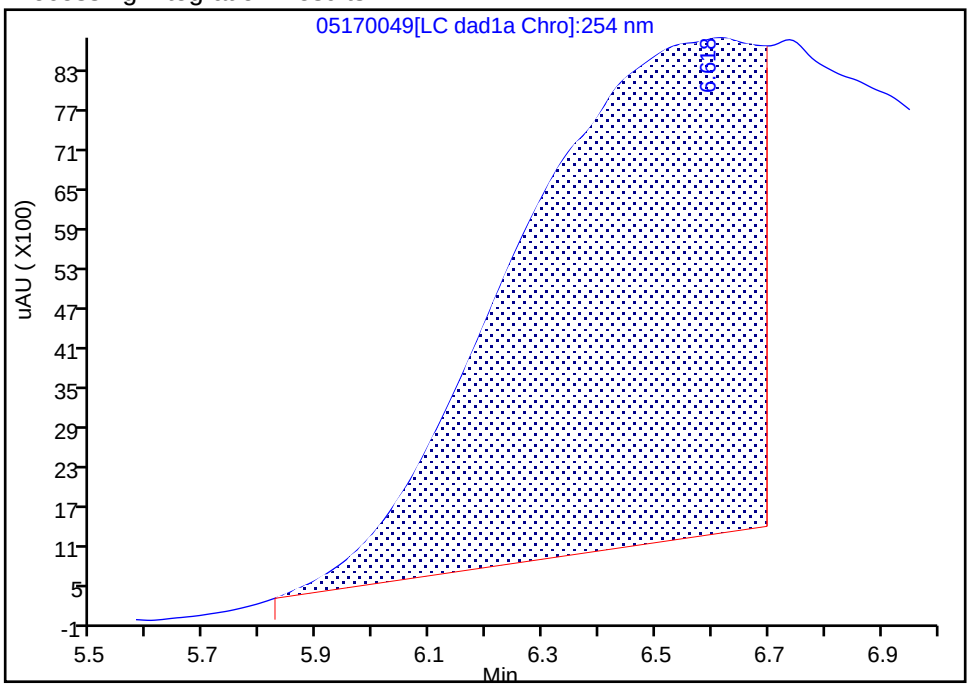
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170049.d				
Injection Date:	18-May-2024 05:32:52	Instrument ID:	CHHPLC_X3		
Lims ID:	280-191168-B-3-A RE	Lab Sample ID:	280-191168-3		
Client ID:	FWGmw-024-240401-GW				
Operator ID:	JZ	ALS Bottle#:	49	Worklist Smp#:	49
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

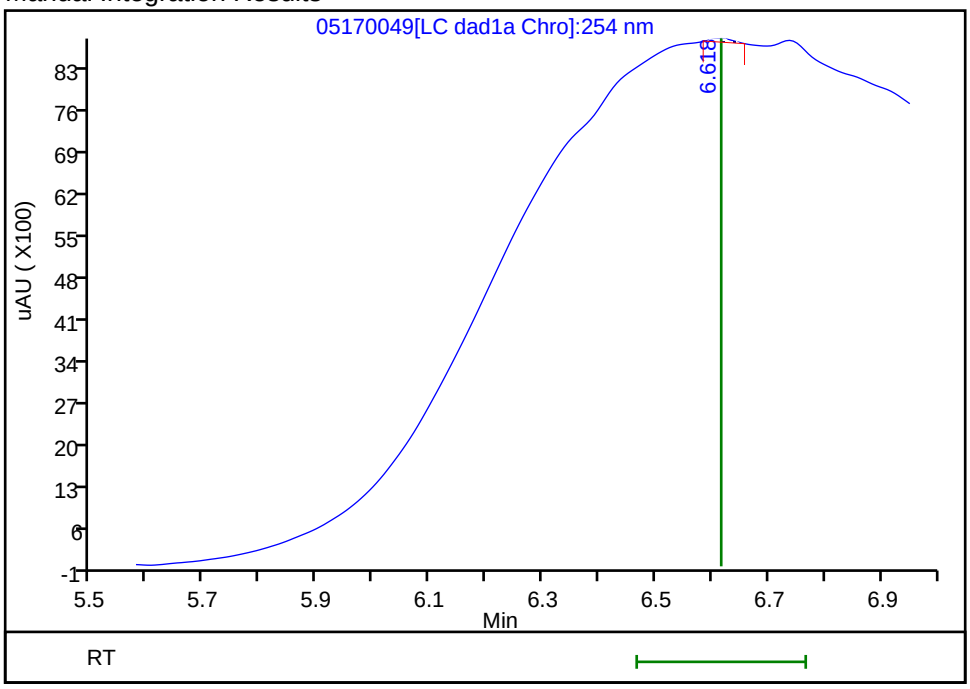
Processing Integration Results

RT: 6.62
Area: 223605
Amount: 2.340342
Amount Units: ug/mL



Manual Integration Results

RT: 6.62
Area: 168
Amount: 0.001758
Amount Units: ug/mL



Reviewer: LV5D, 18-May-2024 10:47:41 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Client Sample ID: LL3mw-245-240401-GW | Lab Sample ID: 280-191168-4

Matrix: Water | Lab File ID: 05010039.D

Analysis Method: 8330B | Date Collected: 05/07/2024 14:10

Extraction Method: 3535 | Date Extracted: 05/10/2024 10:58

Sample wt/vol: 464.3(mL) | Date Analyzed: 05/11/2024 19:29

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 100(uL) | GC Column: UltraCarb5uODS ID: 4.6(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653063 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.22	U M	0.23	0.22	0.091
99-65-0	1,3-Dinitrobenzene	0.11	U	0.12	0.11	0.040
118-96-7	2,4,6-Trinitrotoluene	0.11	U	0.12	0.11	0.048
121-14-2	2,4-Dinitrotoluene	0.086	U	0.11	0.086	0.030
606-20-2	2,6-Dinitrotoluene	0.086	U	0.11	0.086	0.043
35572-78-2	2-Amino-4,6-dinitrotoluene	0.11	U	0.12	0.11	0.055
88-72-2	2-Nitrotoluene	0.22	U Q	0.23	0.22	0.092
99-08-1	3-Nitrotoluene	0.38	U Q	0.43	0.38	0.21
19406-51-0	4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.062
99-99-0	4-Nitrotoluene	0.43	U Q	0.44	0.43	0.11
2691-41-0	HMX	0.22	U M	0.23	0.22	0.094
98-95-3	Nitrobenzene	0.22	U	0.23	0.22	0.098
55-63-0	Nitroglycerin	2.2	U	2.3	2.2	0.99
78-11-5	PETN	1.1	U	1.2	1.1	0.48
121-82-4	RDX	0.22	U	0.23	0.22	0.055
479-45-8	Tetryl	0.11	U	0.12	0.11	0.034

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	96	M	83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\05010039.D
Lims ID: 280-191168-A-4-A
Client ID: LL3mw-245-240401-GW
Sample Type: Client
Inject. Date: 11-May-2024 19:29:21 ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-191168-A-4-A
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 14-May-2024 14:09:36 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1620

First Level Reviewer: LV5D Date: 14-May-2024 12:54:32

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
4 HMX	1		6.611			ND	U
8 RDX	1		7.631			ND	
$ 10 1,2-Dinitrobenzene	1	8.554	8.565	-0.011	25447	0.1926	M
11 1,3,5-Trinitrobenzene	1	8.708	8.705	0.003	1773	0.007956	M
12 1,3-Dinitrobenzene	1		9.318			ND	
13 Nitrobenzene	1		9.671			ND	
15 Tetryl	1		9.991			ND	
16 Nitroglycerin	2		10.458			ND	
17 2,4,6-Trinitrotoluene	1		10.891			ND	
18 4-Amino-2,6-dinitrotoluene	1		11.064			ND	
19 2-Amino-4,6-dinitrotoluene	1		11.318			ND	
20 2,6-Dinitrotoluene	1		11.464			ND	
21 2,4-Dinitrotoluene	1		11.638			ND	
22 o-Nitrotoluene	1		12.418			ND	7
23 p-Nitrotoluene	1		12.831			ND	
24 m-Nitrotoluene	1		13.371			ND	
25 PETN	2		14.418			ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
U - Marked Undetected

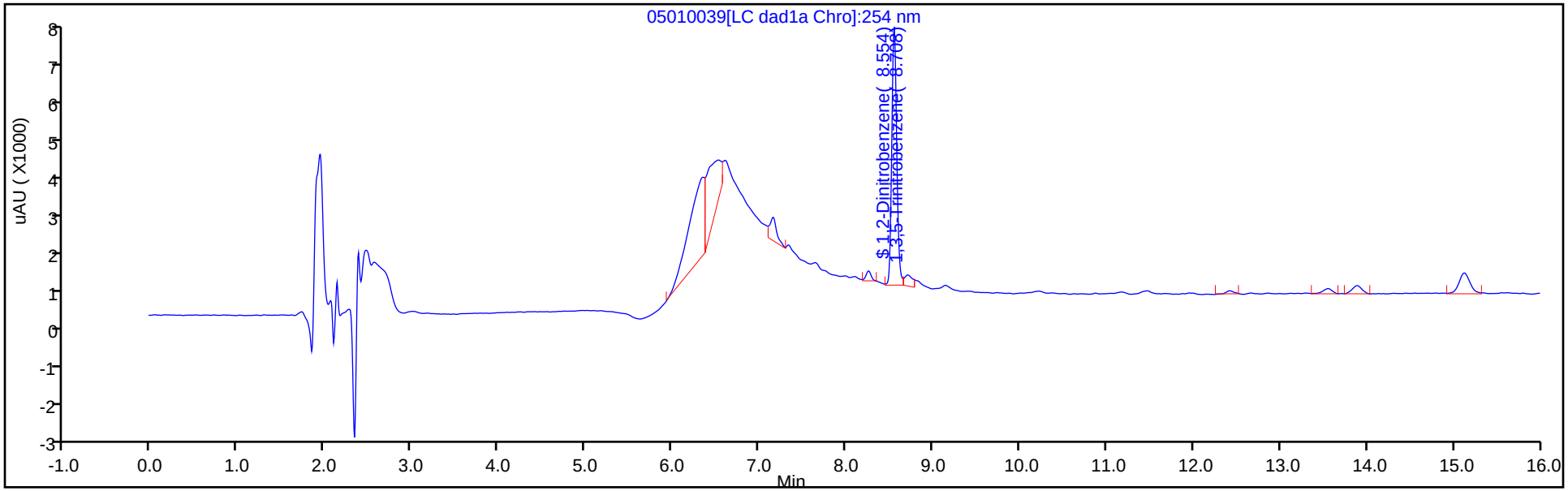
Report Date: 14-May-2024 14:09:37 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

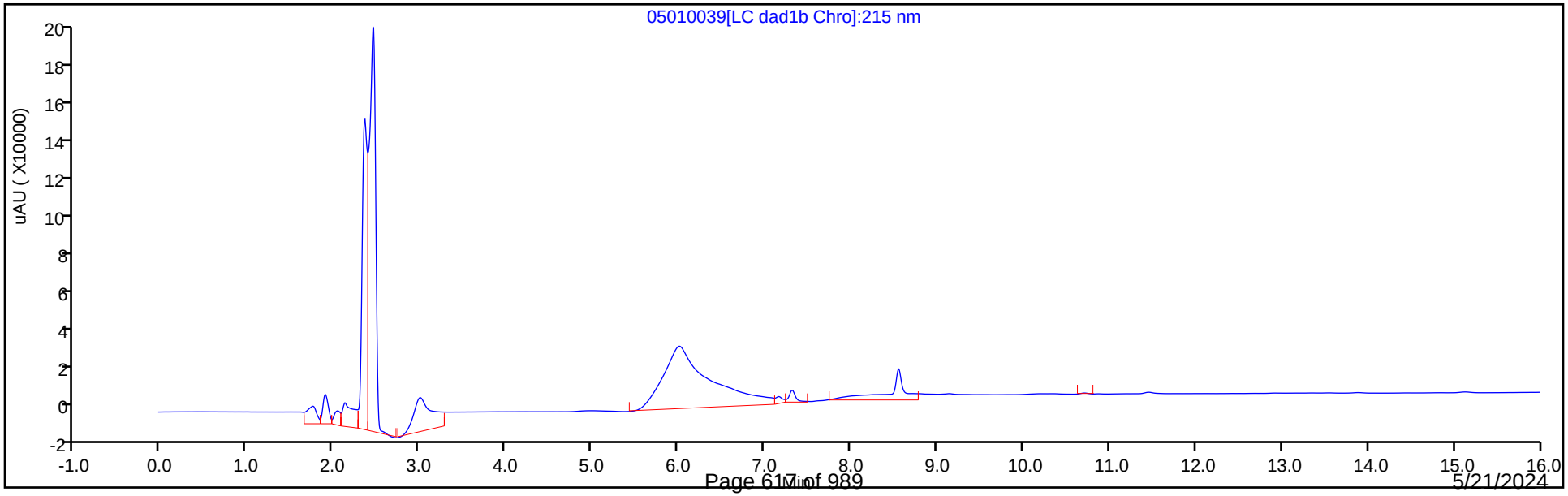
Data File: \\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010039.d

Injection Date:	11-May-2024 19:29:21	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-191168-A-4-A	Lab Sample ID:	280-191168-4	Worklist Smp#:	39
Client ID:	LL3mw-245-240401-GW				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\05010039.D				
Lims ID:	280-191168-A-4-A				
Client ID:	LL3mw-245-240401-GW				
Sample Type:	Client				
Inject. Date:	11-May-2024 19:29:21	ALS Bottle#:	39	Worklist Smp#:	39
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-191168-A-4-A				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	14-May-2024 14:09:36	Calib Date:	18-Apr-2024 03:08:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1620				
First Level Reviewer: LV5D		Date:	14-May-2024 12:54:32		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1926	96.30

Manual Integration/User Assign Peak Report

Eurofins Denver

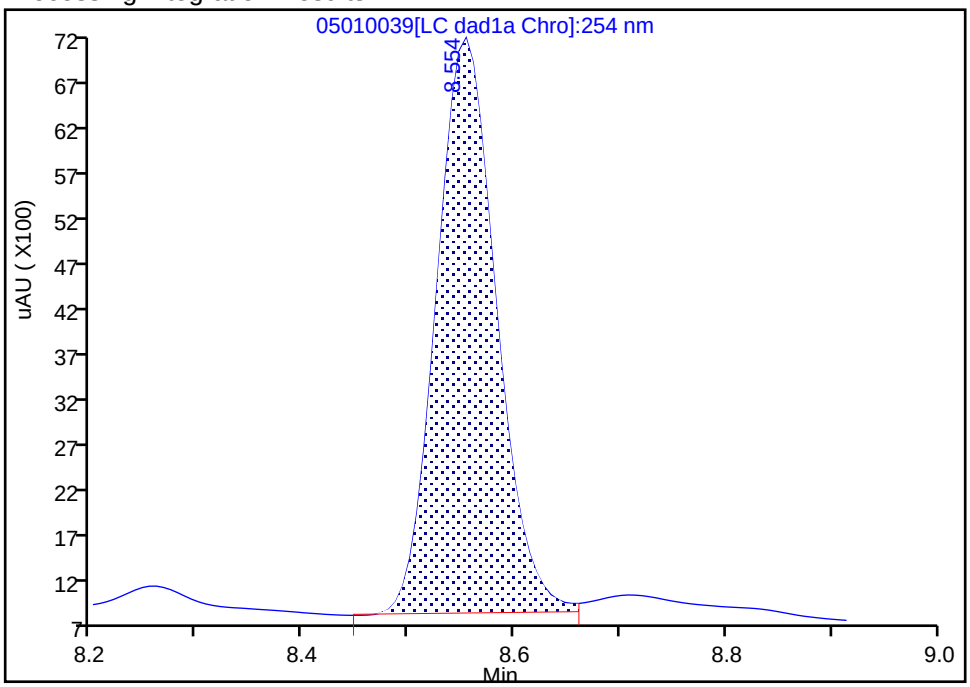
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010039.d				
Injection Date:	11-May-2024 19:29:21	Instrument ID:	CHHPLC_X3		
Lims ID:	280-191168-A-4-A	Lab Sample ID:	280-191168-4		
Client ID:	LL3mw-245-240401-GW				
Operator ID:	JZ	ALS Bottle#:	39	Worklist Smp#:	39
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

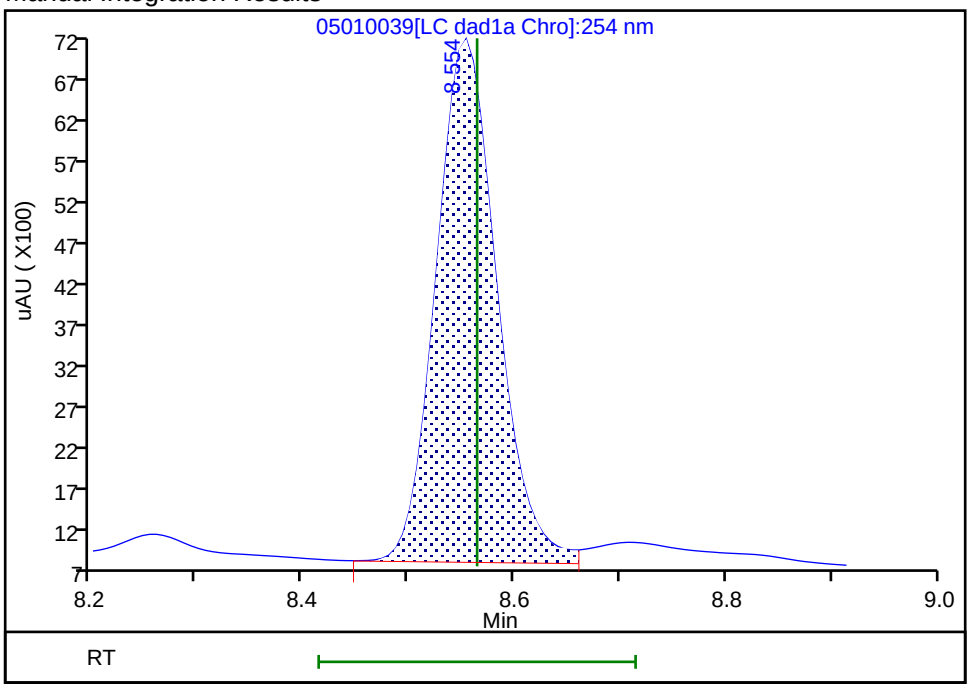
Processing Integration Results

RT: 8.55
Area: 24890
Amount: 0.188377
Amount Units: ug/mL



Manual Integration Results

RT: 8.55
Area: 25447
Amount: 0.192609
Amount Units: ug/mL



Reviewer: LV5D, 14-May-2024 12:54:29 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

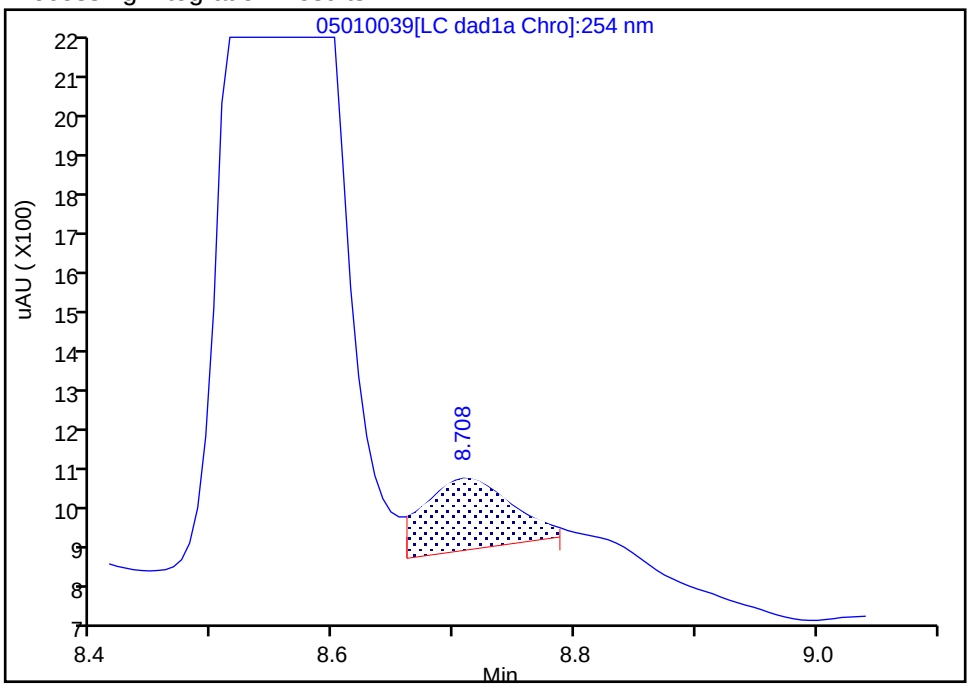
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010039.d				
Injection Date:	11-May-2024 19:29:21	Instrument ID:	CHHPLC_X3		
Lims ID:	280-191168-A-4-A	Lab Sample ID:	280-191168-4		
Client ID:	LL3mw-245-240401-GW				
Operator ID:	JZ	ALS Bottle#:	39	Worklist Smp#:	39
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

11 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

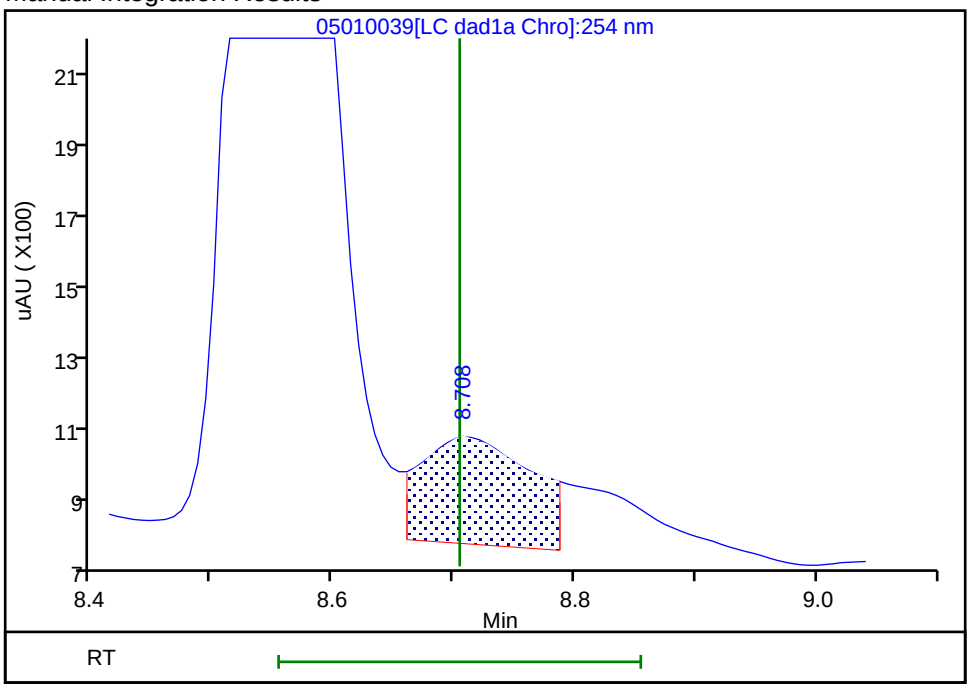
Processing Integration Results

RT: 8.71
Area: 849
Amount: 0.003810
Amount Units: ug/mL



Manual Integration Results

RT: 8.71
Area: 1773
Amount: 0.007956
Amount Units: ug/mL



Reviewer: LV5D, 14-May-2024 12:54:29 -06:00:00 (UTC)
Audit Action: Assigned New Baseline Audit Reason: Baseline

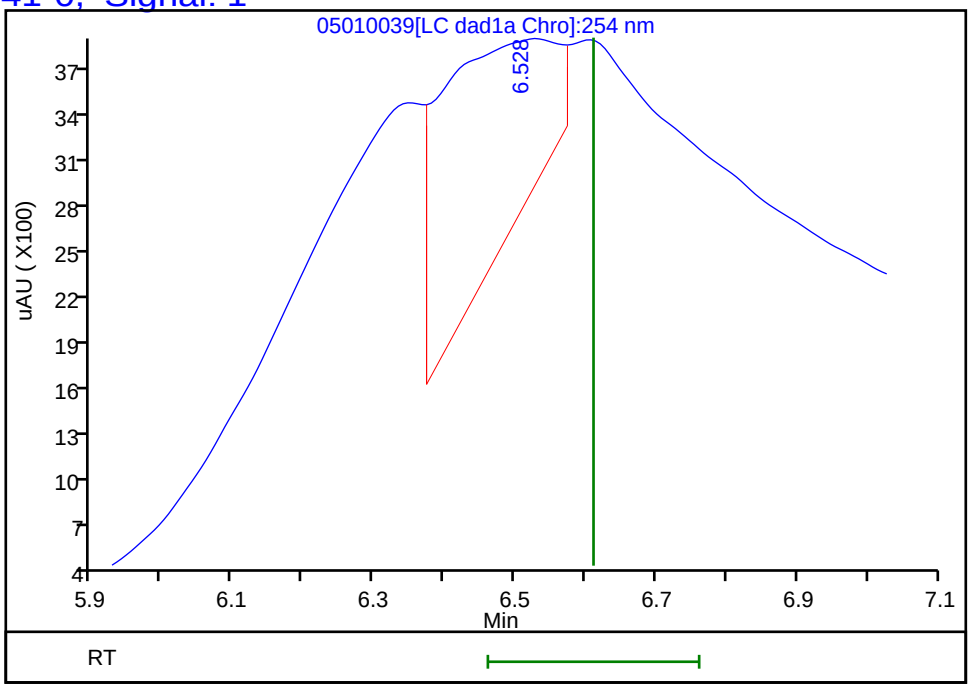
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010039.d				
Injection Date:	11-May-2024 19:29:21	Instrument ID:	CHHPLC_X3		
Lims ID:	280-191168-A-4-A	Lab Sample ID:	280-191168-4		
Client ID:	LL3mw-245-240401-GW				
Operator ID:	JZ	ALS Bottle#:	39	Worklist Smp#:	39
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0, Signal: 1

RT: 6.53
Response: 15648
Amount: 0.163778



Reviewer: LV5D, 14-May-2024 12:54:32
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Client Sample ID: LL3mw-245-240401-GW RE | Lab Sample ID: 280-191168-4 RE

Matrix: Water | Lab File ID: 05170051.D

Analysis Method: 8330B | Date Collected: 05/07/2024 14:10

Extraction Method: 3535 | Date Extracted: 05/17/2024 13:10

Sample wt/vol: 436.9(mL) | Date Analyzed: 05/18/2024 06:18

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 100(uL) | GC Column: UltraCarb5uODS ID: 4.6(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653871 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	*1,3,5-Trinitrobenzene*	*0.23*	*U M H*	*0.24*	0.23	*0.096*
99-65-0	*1,3-Dinitrobenzene*	*0.11*	*U M H*	*0.13*	0.11	*0.042*
118-96-7	*2,4,6-Trinitrotoluene*	*0.11*	*U H*	*0.13*	0.11	*0.051*
121-14-2	*2,4-Dinitrotoluene*	*0.092*	*U H*	*0.11*	0.092	*0.031*
606-20-2	*2,6-Dinitrotoluene*	*0.092*	*U H*	*0.11*	0.092	*0.046*
35572-78-2	*2-Amino-4,6-dinitrotoluene*	*0.11*	*U H*	*0.13*	0.11	*0.058*
88-72-2	*2-Nitrotoluene*	*0.23*	*U H*	*0.24*	0.23	*0.098*
99-08-1	*3-Nitrotoluene*	*0.40*	*U H*	*0.46*	0.40	*0.22*
19406-51-0	*4-Amino-2,6-dinitrotoluene*	*0.14*	*U H*	*0.17*	0.14	*0.066*
99-99-0	*4-Nitrotoluene*	*0.46*	*U H*	*0.47*	0.46	*0.11*
2691-41-0	*HMX*	*0.23*	*U M H*	*0.24*	0.23	*0.10*
98-95-3	*Nitrobenzene*	*0.23*	*U H*	*0.24*	0.23	*0.10*
55-63-0	*Nitroglycerin*	*2.3*	*U H*	*2.4*	2.3	*1.1*
78-11-5	*PETN*	*1.1*	*U H*	*1.3*	1.1	*0.51*
121-82-4	*RDX*	*0.23*	*U H*	*0.24*	0.23	*0.059*
479-45-8	*Tetryl*	*0.11*	*U H*	*0.13*	0.11	*0.036*

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	100	*M*	83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\05170051.D
Lims ID: 280-191168-B-4-A RE
Client ID: LL3mw-245-240401-GW
Sample Type: Client
Inject. Date: 18-May-2024 06:18:44 ALS Bottle#: 51 Worklist Smp#: 51
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-191168-B-4-A
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-May-2024 10:51:53 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1674

First Level Reviewer: LV5D Date: 18-May-2024 10:48:02

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	4 HMX	1		6.617			ND	U
	8 RDX	1		7.630			ND	
$	10 1,2-Dinitrobenzene	1	8.550	8.557	-0.007	26475	0.2004	M
	11 1,3,5-Trinitrobenzene	1		8.697			ND	U
	12 1,3-Dinitrobenzene	1		9.310			ND	U
	13 Nitrobenzene	1		9.670			ND	
	15 Tetryl	1		9.983			ND	
	16 Nitroglycerin	2		10.457			ND	
	17 2,4,6-Trinitrotoluene	1		10.883			ND	
	18 4-Amino-2,6-dinitrotoluene	1		11.043			ND	
	19 2-Amino-4,6-dinitrotoluene	1		11.297			ND	
	20 2,6-Dinitrotoluene	1		11.450			ND	
	21 2,4-Dinitrotoluene	1		11.623			ND	
	22 o-Nitrotoluene	1		12.410			ND	
	23 p-Nitrotoluene	1		12.823			ND	
	24 m-Nitrotoluene	1		13.370			ND	
	25 PETN	2		14.437			ND	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
U - Marked Undetected

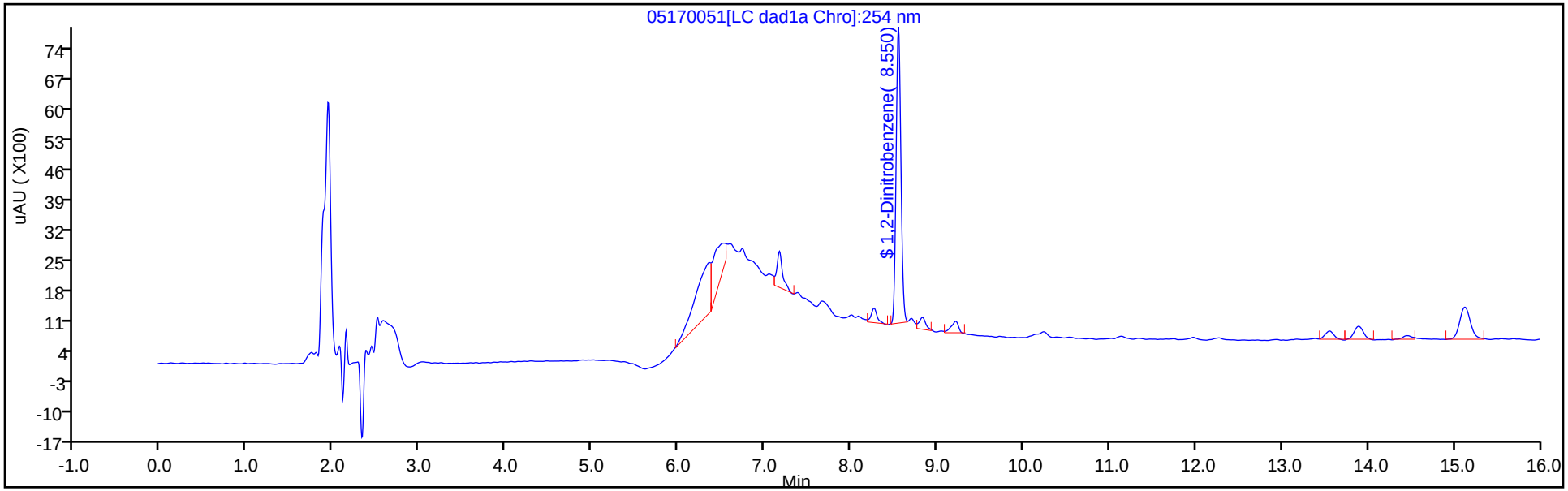
Report Date: 18-May-2024 10:51:54 Chrom Revision: 2.3 14-May-2024 14:23:08

Eurofins Denver

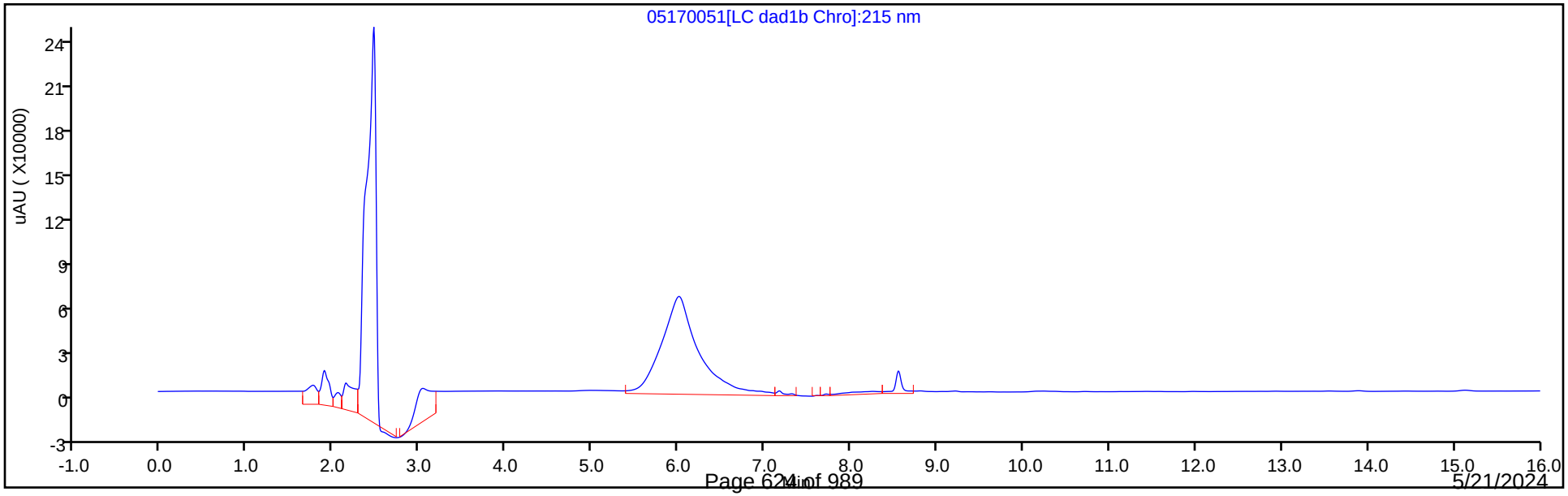
Data File: \\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170051.d

Injection Date:	18-May-2024 06:18:44	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-191168-B-4-A RE	Lab Sample ID:	280-191168-4	Worklist Smp#:	51
Client ID:	LL3mw-245-240401-GW				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	51
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\05170051.D				
Lims ID:	280-191168-B-4-A RE				
Client ID:	LL3mw-245-240401-GW				
Sample Type:	Client				
Inject. Date:	18-May-2024 06:18:44	ALS Bottle#:	51	Worklist Smp#:	51
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-191168-B-4-A				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	18-May-2024 10:51:53	Calib Date:	18-Apr-2024 03:08:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1674				

First Level Reviewer: LV5D Date: 18-May-2024 10:48:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2004	100.21

Manual Integration/User Assign Peak Report

Eurofins Denver

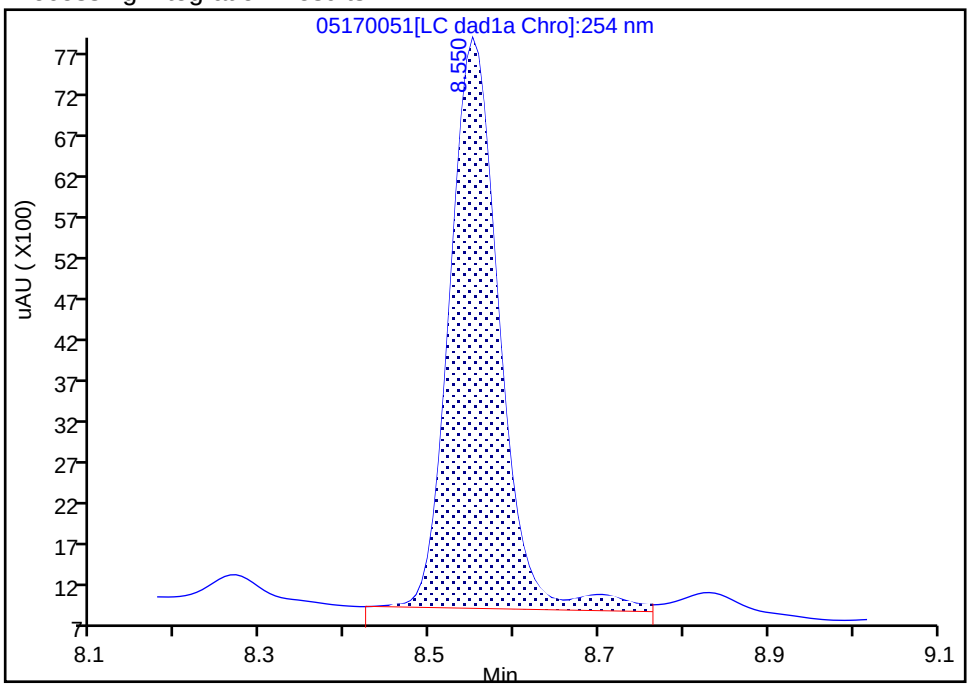
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170051.d				
Injection Date:	18-May-2024 06:18:44	Instrument ID:	CHHPLC_X3		
Lims ID:	280-191168-B-4-A RE	Lab Sample ID:	280-191168-4		
Client ID:	LL3mw-245-240401-GW				
Operator ID:	JZ	ALS Bottle#:	51	Worklist Smp#:	51
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

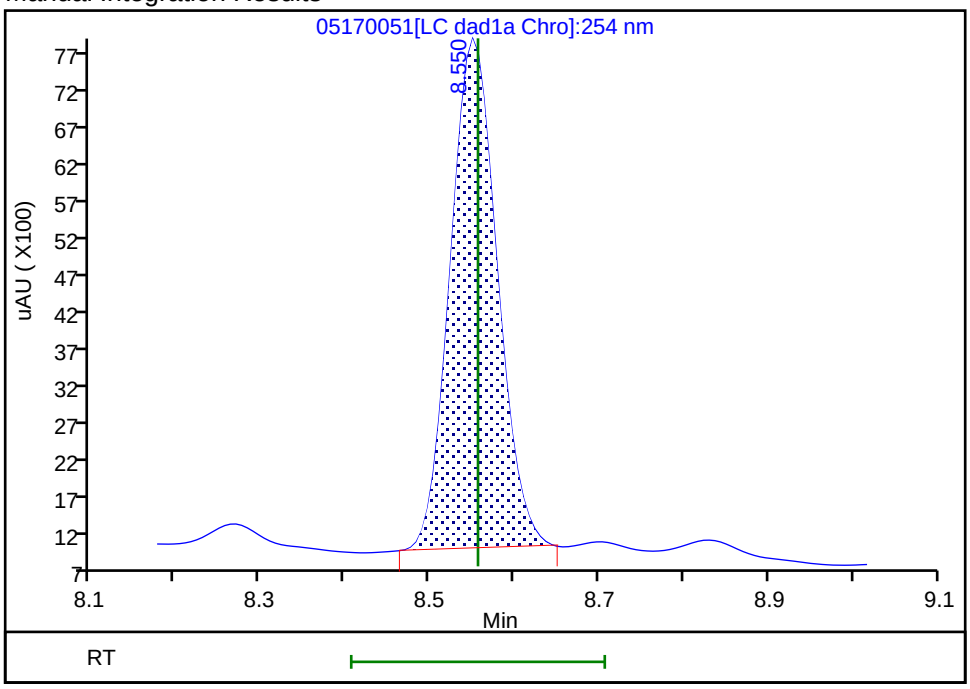
Processing Integration Results

RT: 8.55
Area: 28411
Amount: 0.215126
Amount Units: ug/mL



Manual Integration Results

RT: 8.55
Area: 26475
Amount: 0.200418
Amount Units: ug/mL



Reviewer: LV5D, 18-May-2024 10:48:02 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

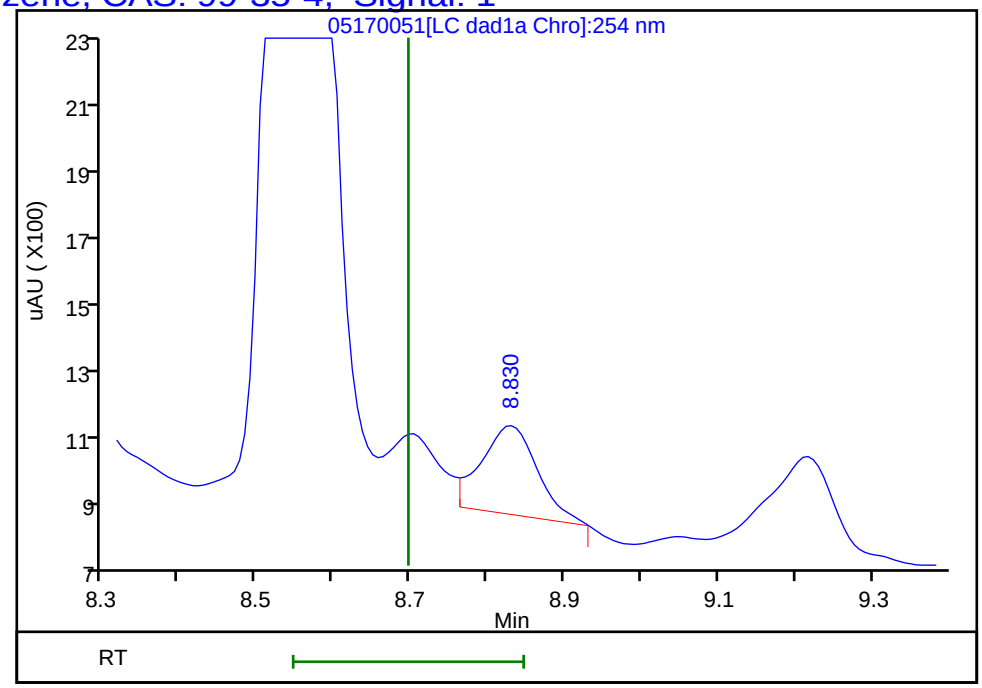
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170051.d				
Injection Date:	18-May-2024 06:18:44	Instrument ID:	CHHPLC_X3		
Lims ID:	280-191168-B-4-A RE	Lab Sample ID:	280-191168-4		
Client ID:	LL3mw-245-240401-GW				
Operator ID:	JZ	ALS Bottle#:	51	Worklist Smp#:	51
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

11 1,3,5-Trinitrobenzene, CAS: 99-35-4, Signal: 1

RT: 8.83
Response: 1264
Amount: 0.005672



Reviewer: LV5D, 18-May-2024 10:48:02
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

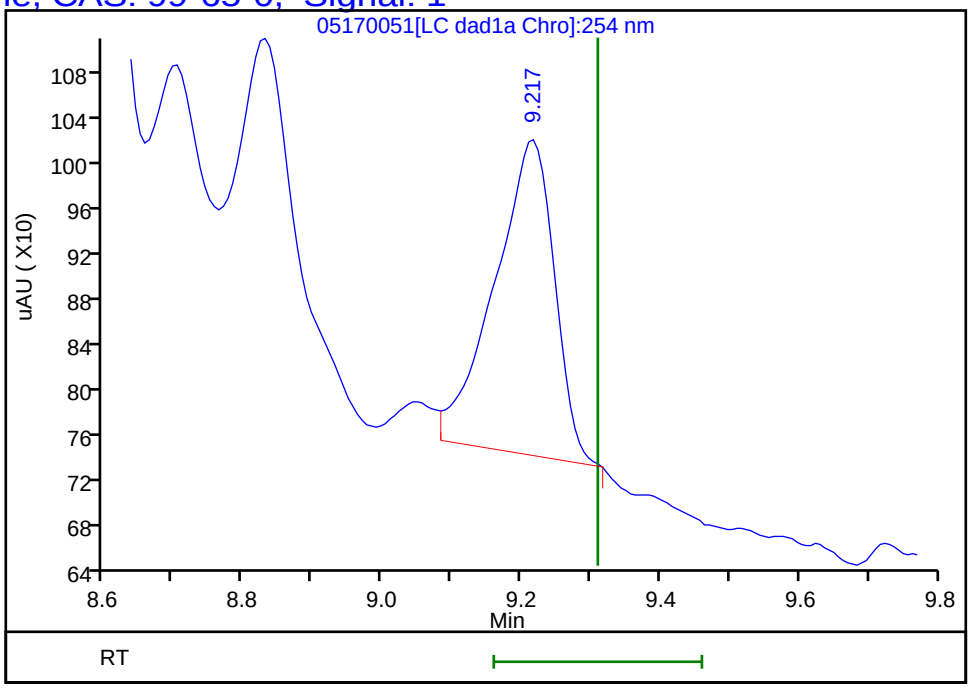
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170051.d				
Injection Date:	18-May-2024 06:18:44	Instrument ID:	CHHPLC_X3		
Lims ID:	280-191168-B-4-A RE	Lab Sample ID:	280-191168-4		
Client ID:	LL3mw-245-240401-GW				
Operator ID:	JZ	ALS Bottle#:	51	Worklist Smp#:	51
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.22
Response: 1639
Amount: 0.005474



Reviewer: LV5D, 18-May-2024 10:48:02
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

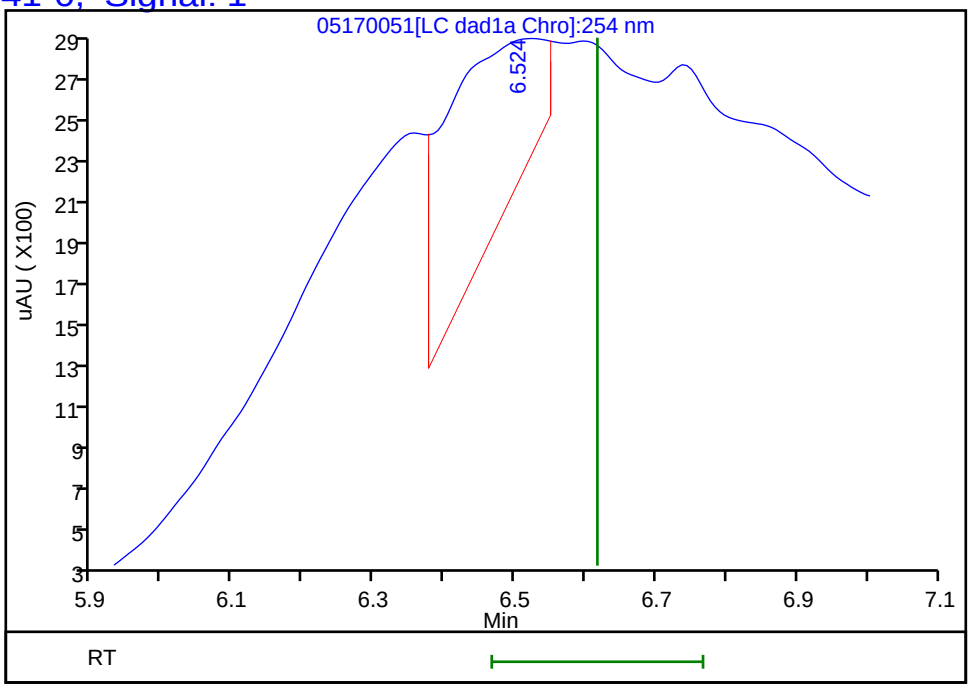
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170051.d				
Injection Date:	18-May-2024 06:18:44	Instrument ID:	CHHPLC_X3		
Lims ID:	280-191168-B-4-A RE	Lab Sample ID:	280-191168-4		
Client ID:	LL3mw-245-240401-GW				
Operator ID:	JZ	ALS Bottle#:	51	Worklist Smp#:	51
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0, Signal: 1

RT: 6.52
Response: 8627
Amount: 0.090294



Reviewer: LV5D, 18-May-2024 10:48:02
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins Denver | Job No.: 280-191168-1 | Analy Batch No.: 649950

SDG No.:

Instrument ID: CHHPLC_X3 | GC Column: UltraCarb5u ID: 4.6(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 04/17/2024 20:37 | Calibration End Date: 04/17/2024 23:41 | Calibration ID: 92320

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-649950/19	04170019.D
Level 2	IC 280-649950/18	04170018.D
Level 3	IC 280-649950/17	04170017.D
Level 4	IC 280-649950/16	04170016.D
Level 5	IC 280-649950/15	04170015.D
Level 6	IC 280-649950/14	04170014.D
Level 7	IC 280-649950/13	04170013.D
Level 8	IC 280-649950/12	04170012.D
Level 9	IC 280-649950/11	04170011.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
TNX	6.480	6.475	6.478	6.476	6.476	6.479	6.476	6.474	6.469		6.376 - 6.576	6.476
HMX	6.580	6.582	6.578	6.583	6.582	6.586	6.582	6.581	6.575		6.433 - 6.733	6.581
DNX	6.786	6.788	6.784	6.789	6.789	6.786	6.789	6.788	6.782		6.689 - 6.889	6.787
MNX	7.206	7.202	7.204	7.203	7.209	7.206	7.202	7.208	7.195		7.053 - 7.353	7.204
RDX	7.580	7.582	7.584	7.583	7.582	7.586	7.582	7.581	7.575		7.433 - 7.733	7.582
Picric acid	7.820	7.822	7.818	7.816	7.809	7.806	7.789	7.781	7.742		7.666 - 7.966	7.800
1,3,5-Trinitrobenzene	8.660	8.655	8.658	8.656	8.656	8.659	8.656	8.654	8.649		8.506 - 8.806	8.656
1,3-Dinitrobenzene	9.273	9.275	9.277	9.276	9.276	9.279	9.276	9.274	9.262		9.126 - 9.426	9.274
Nitrobenzene	9.633	9.635	9.631	9.636	9.636	9.639	9.629	9.634	9.622		9.486 - 9.786	9.633
3,5-Dinitroaniline	9.873	9.868	9.871	9.876	9.876	9.872	9.869	9.868	9.855		9.726 - 10.026	9.870
Tetryl	9.953	9.955	9.957	9.963	9.962	9.959	9.956	9.954	9.948		9.813 - 10.113	9.956
Nitroglycerin	10.426	10.422	10.424	10.429	10.429	10.432	10.422	10.421	10.415		10.279 - 10.579	10.424
2,4,6-Trinitrotoluene	10.866	10.862	10.864	10.869	10.869	10.872	10.862	10.868	10.862		10.769 - 10.969	10.866
4-Amino-2,6-dinitrotoluene	11.046	11.042	11.044	11.049	11.049	11.052	11.042	11.041	11.035		10.949 - 11.149	11.044
2-Amino-4,6-dinitrotoluene	11.306	11.302	11.304	11.309	11.309	11.306	11.302	11.301	11.288		11.209 - 11.409	11.303
2,6-Dinitrotoluene	11.453	11.448	11.451	11.449	11.456	11.452	11.449	11.448	11.442		11.349 - 11.549	11.450
2,4-Dinitrotoluene	11.626	11.622	11.624	11.629	11.629	11.632	11.622	11.621	11.615		11.529 - 11.729	11.624
2-Nitrotoluene	12.419	12.415	12.424	12.423	12.422	12.426	12.416	12.421	12.408		12.273 - 12.573	12.419
4-Nitrotoluene	12.853	12.842	12.844	12.843	12.842	12.846	12.842	12.841	12.835		12.693 - 12.993	12.843
3-Nitrotoluene	13.399	13.395	13.404	13.403	13.402	13.406	13.396	13.394	13.388		13.253 - 13.553	13.399
PETN	14.486	14.482	14.491	14.483	14.489	14.492	14.482	14.481	14.482		14.333 - 14.633	14.485
1,2-Dinitrobenzene	8.520	8.522	8.518	8.516	8.522	8.519	8.516	8.521	8.509		8.366 - 8.666	8.518

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-191168-1 Analy Batch No.: 649950

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/17/2024 20:37 Calibration End Date: 04/17/2024 23:41 Calibration ID: 92320

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-649950/19	04170019.D
Level 2	IC 280-649950/18	04170018.D
Level 3	IC 280-649950/17	04170017.D
Level 4	IC 280-649950/16	04170016.D
Level 5	IC 280-649950/15	04170015.D
Level 6	IC 280-649950/14	04170014.D
Level 7	IC 280-649950/13	04170013.D
Level 8	IC 280-649950/12	04170012.D
Level 9	IC 280-649950/11	04170011.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
TNX	204283 196151 203061	200349 196188	191793 201100	199263 198742	Ave		198992.097				1.9		20.0			
HMX	91900 94332 96305	100850 95253	90720 96297	96450 97787	Ave		95543.7159				3.2		20.0			
DNX	151297 147194 150909	141866 146460	144870 148038	148044 146659	Ave		147259.613				2.0		20.0			
MNX	141061 136630 140394	127930 137960	134936 138920	135218 137235	Ave		136698.122				2.9		20.0			
RDX	118700 107376 107690	116700 106868	112240 106959	111620 108752	Ave		110767.075				4.0		20.0			
Picric acid	78700 78992 82062	76200 79110	76940 79906	80160 81861	Ave		79325.6794				2.5		20.0			
1,3,5-Trinitrobenzene	254900 216292 219181	217450 215905	225160 215779	221290 219723	Ave		222853.263				5.6		20.0			
1,3-Dinitrobenzene	308600 296760 301472	283900 297843	300460 298746	303590 303550	Ave		299435.579				2.3		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-191168-1 Analy Batch No.: 649950

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/17/2024 20:37 Calibration End Date: 04/17/2024 23:41 Calibration ID: 92320

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Nitrobenzene	198500 190564 198214	196600 193678	195180 195570	200350 198305	Ave		196328.944				1.5		20.0			
3,5-Dinitroaniline	197100 219364 223150	208550 215118	215620 219330	226510 219396	Lin2	-237.27823	221006.739							1.0000		0.9900
Tetryl	183500 180328 183105	168700 185315	180200 181964	182380 188801	Ave		181588.165				3.0		20.0			
Nitroglycerin	60480 66994 66784	59815 66731	71314 66745	71367 67945	Ave		66463.8886				6.1		20.0			
2,4,6-Trinitrotoluene	208100 214372 215788	220000 213738	213380 214716	219120 217516	Ave		215192.179				1.7		20.0			
4-Amino-2,6-dinitrotoluene	140600 147324 149438	163050 147888	150660 147166	153440 149965	Ave		149947.846				4.0		20.0			
2-Amino-4,6-dinitrotoluene	195100 199804 204593	199850 197140	198460 200077	200330 202927	Ave		199809.038				1.4		20.0			
2,6-Dinitrotoluene	155700 143756 144234	144000 147368	145340 143629	152180 146021	Ave		146914.119				2.9		20.0			
2,4-Dinitrotoluene	299300 289256 292258	289650 288388	288500 289931	294520 294790	Ave		291843.614				1.3		20.0			
2-Nitrotoluene	134000 124092 127714	138850 125230	130520 125813	129770 127758	Ave		129305.251				3.6		20.0			
4-Nitrotoluene	124900 107484 109658	120650 107433	112620 108510	113600 110337	Ave		112799.056				5.4		20.0			
3-Nitrotoluene	171300 135808 139988	153300 136093	141480 137194	142070 139336	Ave		144063.243				8.0		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-191168-1 Analy Batch No.: 649950

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/17/2024 20:37 Calibration End Date: 04/17/2024 23:41 Calibration ID: 92320

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
PETN	78070 70756 71221	70870 70722	70432 70837	72600 71924	Ave		71936.9690				3.3		20.0			
1,2-Dinitrobenzene	144500 131148 132647	130150 132498	130420 132159	134500 134411	Lin2	93.7809842	131630.761							0.9990		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver | Job No.: 280-191168-1 | Analy Batch No.: 649950

SDG No.:

Instrument ID: CHHPLC_X3 | GC Column: UltraCarb5 ID: 4.6(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 04/17/2024 20:37 | Calibration End Date: 04/17/2024 23:41 | Calibration ID: 92320

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-649950/19	04170019.D
Level 2	IC 280-649950/18	04170018.D
Level 3	IC 280-649950/17	04170017.D
Level 4	IC 280-649950/16	04170016.D
Level 5	IC 280-649950/15	04170015.D
Level 6	IC 280-649950/14	04170014.D
Level 7	IC 280-649950/13	04170013.D
Level 8	IC 280-649950/12	04170012.D
Level 9	IC 280-649950/11	04170011.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
TNX	Ave	2051 78789	4023 141333	9628 199537	20006 509682	49234	0.0100 0.402	0.0201 0.703	0.0502 1.00	0.100 2.51	0.251
HMX	Ave	919 38101	2017 67408	4536 97787	9645 240762	23583	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
DNX	Ave	1516 58701	2843 103834	7258 146952	14834 378026	36872	0.0100 0.401	0.0200 0.701	0.0501 1.00	0.100 2.51	0.251
MNX	Ave	1649 64510	2991 113678	7887 160428	15807 410302	39930	0.0117 0.468	0.0234 0.818	0.0585 1.17	0.117 2.92	0.292
RDX	Ave	1187 42747	2334 74871	5612 108752	11162 269224	26844	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
Picric acid	Ave	787 31644	1524 55934	3847 81861	8016 205156	19748	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
1,3,5-Trinitrobenzene	Ave	2549 86362	4349 151045	11258 219723	22129 547952	54073	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
1,3-Dinitrobenzene	Ave	3086 119137	5678 209122	15023 303550	30359 753680	74190	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
Nitrobenzene	Ave	1985 77471	3932 136899	9759 198305	20035 495535	47641	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
3,5-Dinitroaniline	Lin2	1971 86047	4171 153531	10781 219396	22651 557874	54841	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
Tetryl	Ave	1835 74126	3374 127375	9010 188801	18238 457763	45082	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
Nitroglycerin	Ave	6048 266924	11963 467214	35657 679445	71367 1669606	167486	0.100 4.00	0.200 7.00	0.500 10.0	1.00 25.0	2.50
2,4,6-Trinitrotoluene	Ave	2081 85495	4400 150301	10669 217516	21912 539471	53593	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
4-Amino-2,6-dinitrotoluene	Ave	1406 59155	3261 103016	7533 149965	15344 373596	36831	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
2-Amino-4,6-dinitrotoluene	Ave	1951	3997	9923	20033	49951	0.0100	0.0200	0.0500	0.100	0.250

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver | Job No.: 280-191168-1 | Analy Batch No.: 649950

SDG No.:

Instrument ID: CHHPLC_X3 | GC Column: UltraCarb5 ID: 4.6(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 04/17/2024 20:37 | Calibration End Date: 04/17/2024 23:41 | Calibration ID: 92320

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
		78856	140054	202927	511483		0.400	0.700	1.00	2.50	
2,6-Dinitrotoluene	Ave	1557 58947	2880 100540	7267 146021	15218 360585	35939	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
2,4-Dinitrotoluene	Ave	2993 115355	5793 202952	14425 294790	29452 730644	72314	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
2-Nitrotoluene	Ave	1340 50092	2777 88069	6526 127758	12977 319286	31023	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
4-Nitrotoluene	Ave	1249 42973	2413 75957	5631 110337	11360 274145	26871	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
3-Nitrotoluene	Ave	1713 54437	3066 96036	7074 139336	14207 349971	33952	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
PETN	Ave	7807 282889	14174 495856	35216 719241	72600 1780535	176891	0.100 4.00	0.200 7.00	0.500 10.0	1.00 25.0	2.50
1,2-Dinitrobenzene	Lin2	1445 52999	2603 92511	6521 134411	13450 331618	32787	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250

Curve Type Legend:
Ave = Average
Lin2 = Linear 1/conc^2

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170011.D
Lims ID: IC INT/DMT 9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 17-Apr-2024 20:37:59 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT/DMT 9
Operator ID: JZ/JG Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub27

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-Apr-2024 11:59:21 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1675

First Level Reviewer: LV5D Date: 18-Apr-2024 11:12:45

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.469	6.476	-0.007	509682	2.51	2.56	M
4 HMX	1	6.575	6.583	-0.008	240762	2.50	2.52	M
6 DNX	1	6.782	6.789	-0.007	378026	2.51	2.57	M
7 MNX	1	7.195	7.203	-0.008	410302	2.92	3.00	
8 RDX	1	7.575	7.583	-0.008	269224	2.50	2.43	
9 2,4,6-Trinitrophenol	1	7.742	7.816	-0.074	205156	2.50	2.59	
$ 10 1,2-Dinitrobenzene	1	8.509	8.516	-0.007	331618	2.50	2.52	
11 1,3,5-Trinitrobenzene	1	8.649	8.656	-0.007	547952	2.50	2.46	
12 1,3-Dinitrobenzene	1	9.262	9.276	-0.014	753680	2.50	2.52	
13 Nitrobenzene	1	9.622	9.636	-0.014	495535	2.50	2.52	
14 3,5-Dinitroaniline	1	9.855	9.876	-0.021	557874	2.50	2.53	
15 Tetryl	1	9.948	9.963	-0.015	457763	2.50	2.52	
16 Nitroglycerin	2	10.415	10.429	-0.014	1669606	25.0	25.1	
17 2,4,6-Trinitrotoluene	1	10.862	10.869	-0.007	539471	2.50	2.51	
18 4-Amino-2,6-dinitrotoluene	1	11.035	11.049	-0.014	373596	2.50	2.49	
19 2-Amino-4,6-dinitrotoluene	1	11.288	11.309	-0.021	511483	2.50	2.56	
20 2,6-Dinitrotoluene	1	11.442	11.449	-0.007	360585	2.50	2.45	
21 2,4-Dinitrotoluene	1	11.615	11.629	-0.014	730644	2.50	2.50	
22 o-Nitrotoluene	1	12.408	12.423	-0.015	319286	2.50	2.47	
23 p-Nitrotoluene	1	12.835	12.843	-0.008	274145	2.50	2.43	
24 m-Nitrotoluene	1	13.388	13.403	-0.015	349971	2.50	2.43	
25 PETN	2	14.482	14.483	-0.001	1780535	25.0	24.8	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00080	Amount Added: 250.00	Units: uL
8330 DMT_00016	Amount Added: 125.00	Units: uL

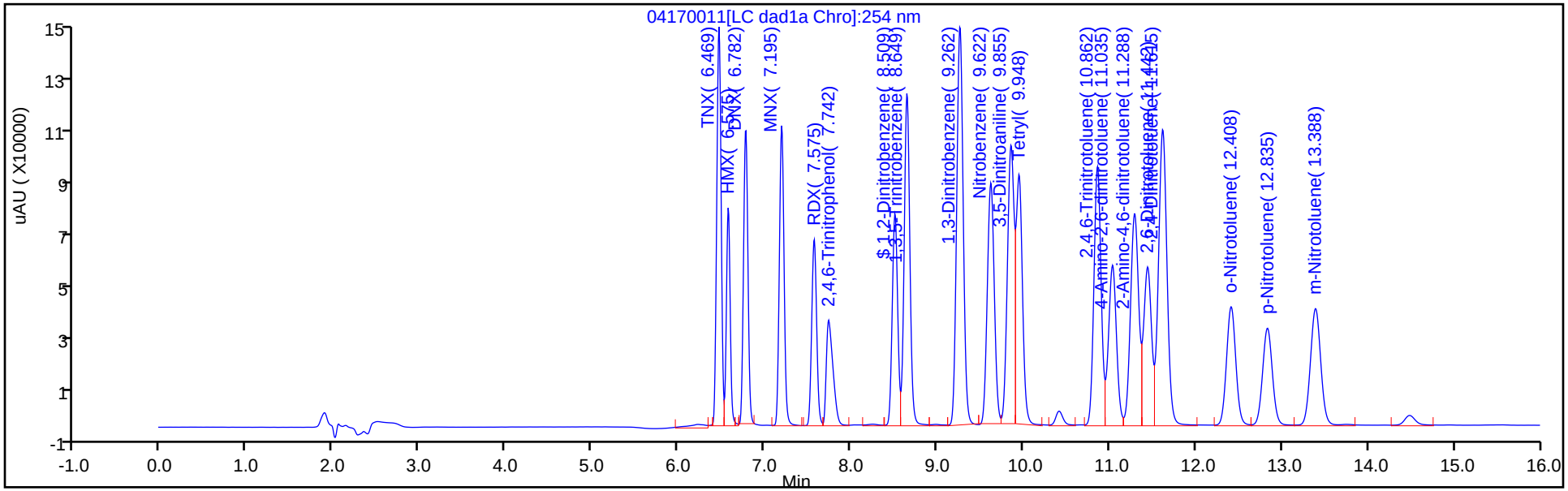
Report Date: 18-Apr-2024 11:59:21 Chrom Revision: 2.3 09-Apr-2024 17:43:44

Eurofins Denver

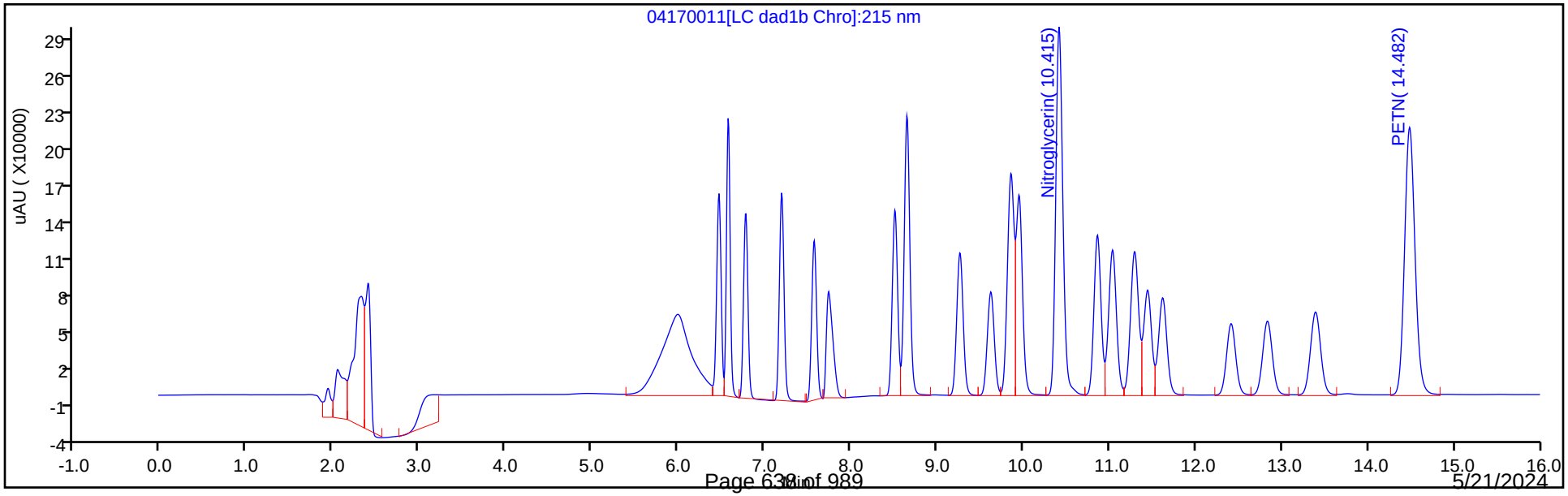
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170011.d

Injection Date:	17-Apr-2024 20:37:59	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	IC INT/DMT 9			Worklist Smp#:	11
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

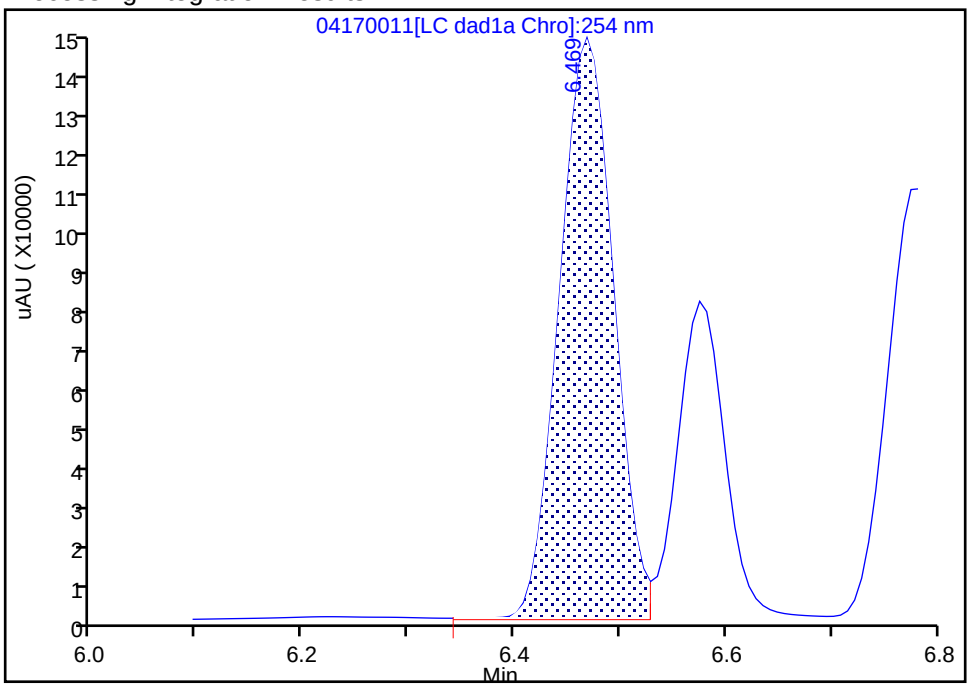
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170011.d
Injection Date: 17-Apr-2024 20:37:59 Instrument ID: CHHPLC_X3
Lims ID: IC INT/DMT 9
Client ID:
Operator ID: JZ/JG ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

3 TNX, CAS: 13980-04-6

Signal: 1

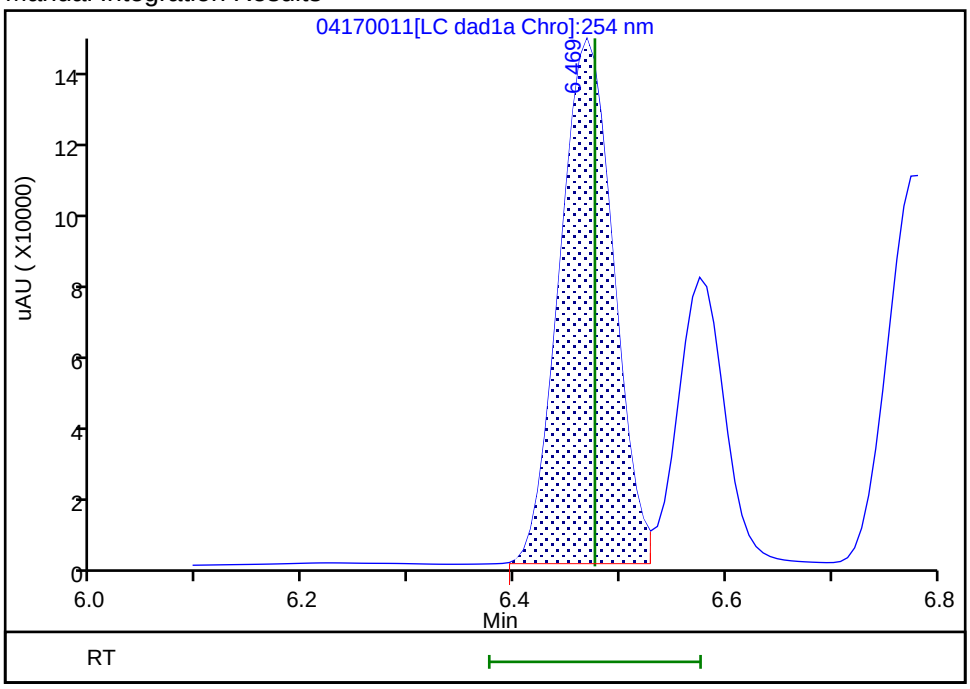
Processing Integration Results

RT: 6.47
Area: 515297
Amount: 2.475720
Amount Units: ug/mL



Manual Integration Results

RT: 6.47
Area: 509682
Amount: 2.561318
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:13:26 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

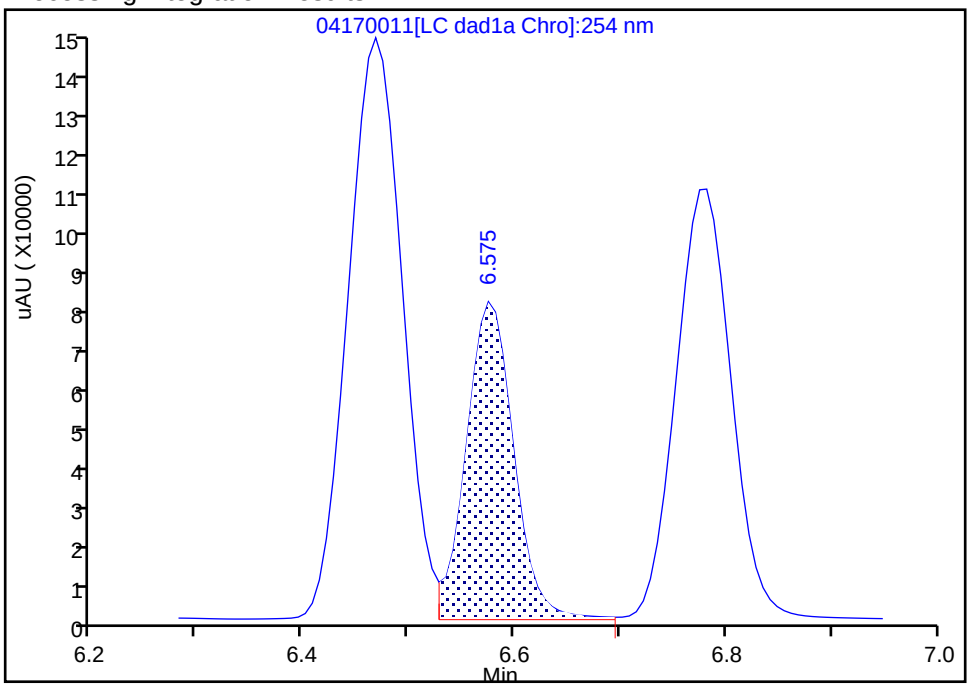
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170011.d				
Injection Date:	17-Apr-2024 20:37:59	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 9				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

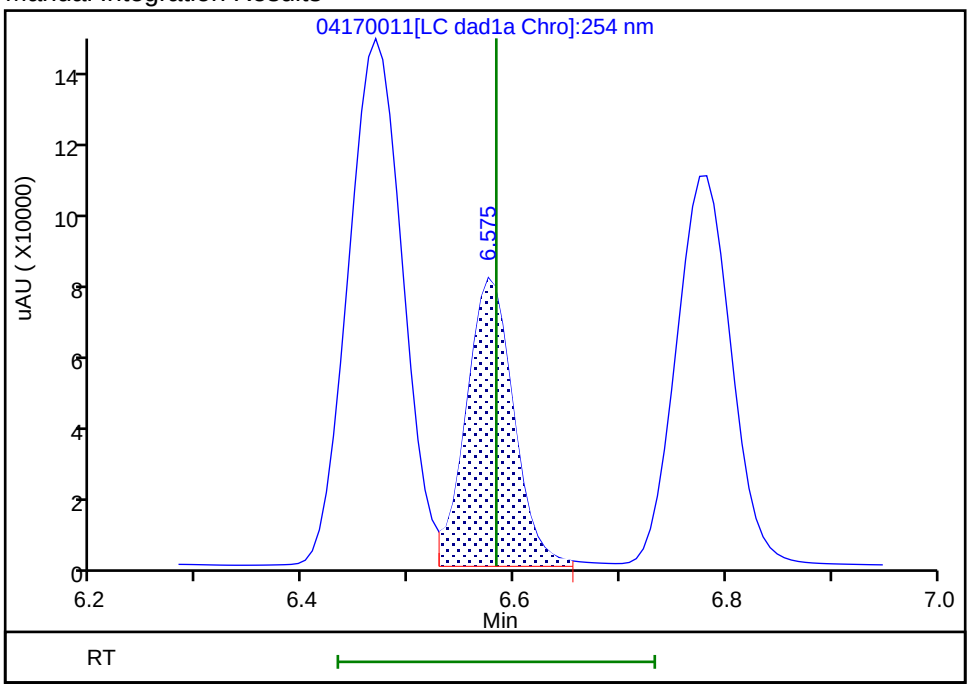
Processing Integration Results

RT: 6.58
Area: 245562
Amount: 2.343167
Amount Units: ug/mL



Manual Integration Results

RT: 6.58
Area: 240762
Amount: 2.519915
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:13:28 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

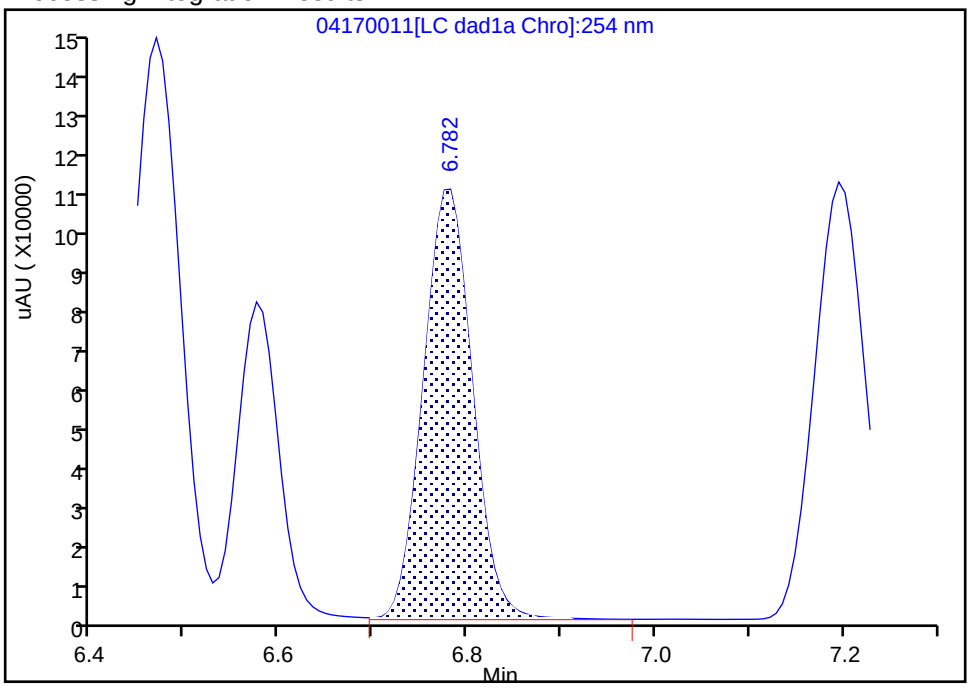
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170011.d				
Injection Date:	17-Apr-2024 20:37:59	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 9				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 DNX, CAS: 80251-29-2

Signal: 1

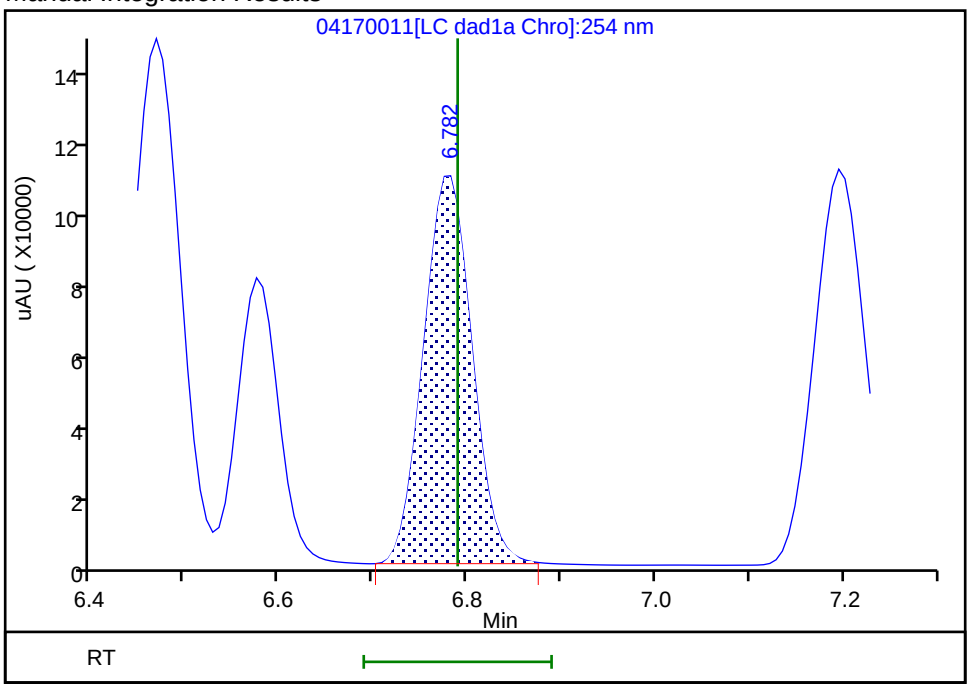
Processing Integration Results

RT: 6.78
Area: 388355
Amount: 2.530843
Amount Units: ug/mL



Manual Integration Results

RT: 6.78
Area: 378026
Amount: 2.567072
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:13:31 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170012.D
Lims ID: IC INT/DMT 8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 17-Apr-2024 21:00:56 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT/DMT 8
Operator ID: JZ/JG Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub27

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-Apr-2024 11:59:23 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1675

First Level Reviewer: LV5D Date: 18-Apr-2024 11:13:14

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.474	6.476	-0.002	199537	1.00	1.00	M
4 HMX	1	6.581	6.583	-0.002	97787	1.00	1.02	M
6 DNX	1	6.788	6.789	-0.001	146952	1.00	1.00	M
7 MNX	1	7.208	7.203	0.005	160428	1.17	1.17	
8 RDX	1	7.581	7.583	-0.002	108752	1.00	0.9818	
9 2,4,6-Trinitrophenol	1	7.781	7.816	-0.035	81861	1.00	1.03	
$ 10 1,2-Dinitrobenzene	1	8.521	8.516	0.005	134411	1.00	1.02	
11 1,3,5-Trinitrobenzene	1	8.654	8.656	-0.002	219723	1.00	0.9860	
12 1,3-Dinitrobenzene	1	9.274	9.276	-0.002	303550	1.00	1.01	
13 Nitrobenzene	1	9.634	9.636	-0.002	198305	1.00	1.01	
14 3,5-Dinitroaniline	1	9.868	9.876	-0.008	219396	1.00	0.99	
15 Tetryl	1	9.954	9.963	-0.009	188801	1.00	1.04	
16 Nitroglycerin	2	10.421	10.429	-0.008	679445	10.0	10.2	
17 2,4,6-Trinitrotoluene	1	10.868	10.869	-0.001	217516	1.00	1.01	
18 4-Amino-2,6-dinitrotoluene	1	11.041	11.049	-0.008	149965	1.00	1.00	
19 2-Amino-4,6-dinitrotoluene	1	11.301	11.309	-0.008	202927	1.00	1.02	
20 2,6-Dinitrotoluene	1	11.448	11.449	-0.001	146021	1.00	0.99	
21 2,4-Dinitrotoluene	1	11.621	11.629	-0.008	294790	1.00	1.01	
22 o-Nitrotoluene	1	12.421	12.423	-0.002	127758	1.00	0.9880	
23 p-Nitrotoluene	1	12.841	12.843	-0.002	110337	1.00	0.9782	
24 m-Nitrotoluene	1	13.394	13.403	-0.009	139336	1.00	0.9672	
25 PETN	2	14.481	14.483	-0.002	719241	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00016	Amount Added: 50.00	Units: uL
8330IntermStk_00080	Amount Added: 100.00	Units: uL

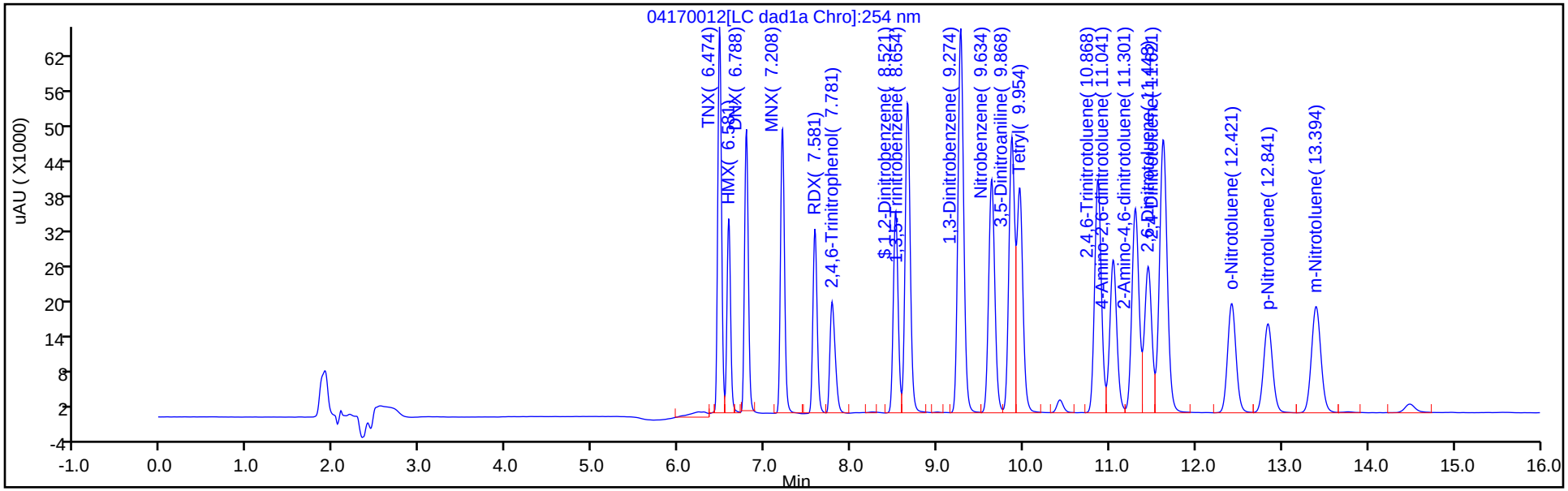
Report Date: 18-Apr-2024 11:59:23 Chrom Revision: 2.3 09-Apr-2024 17:43:44

Eurofins Denver

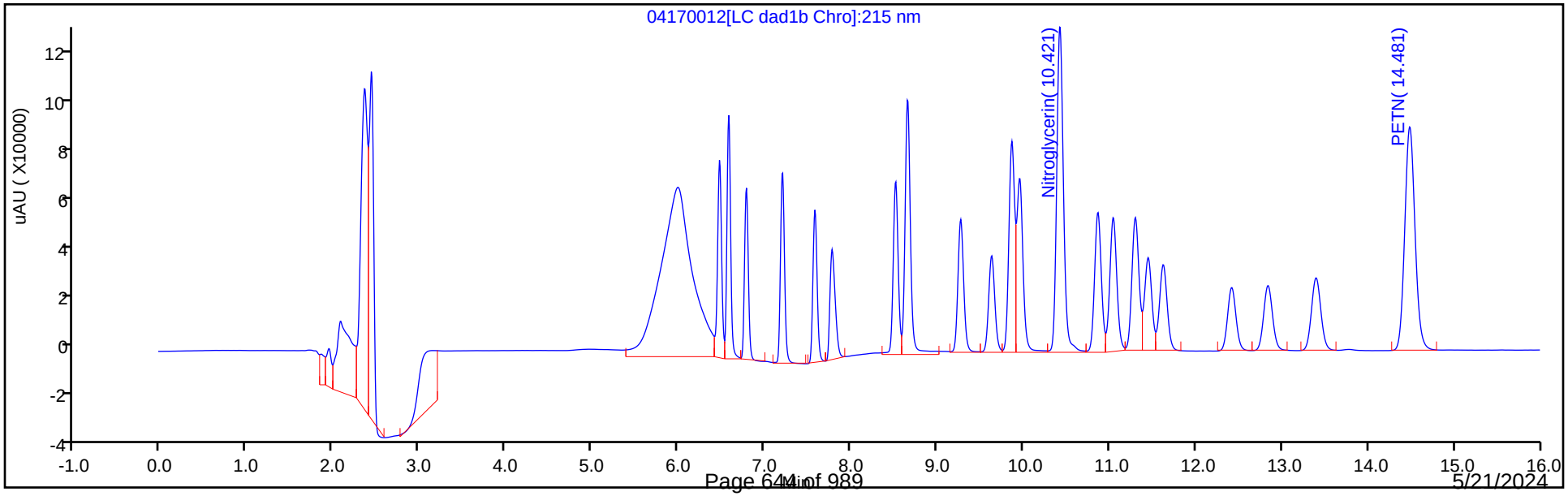
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170012.d

Injection Date:	17-Apr-2024 21:00:56	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	IC INT/DMT 8			Worklist Smp#:	12
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

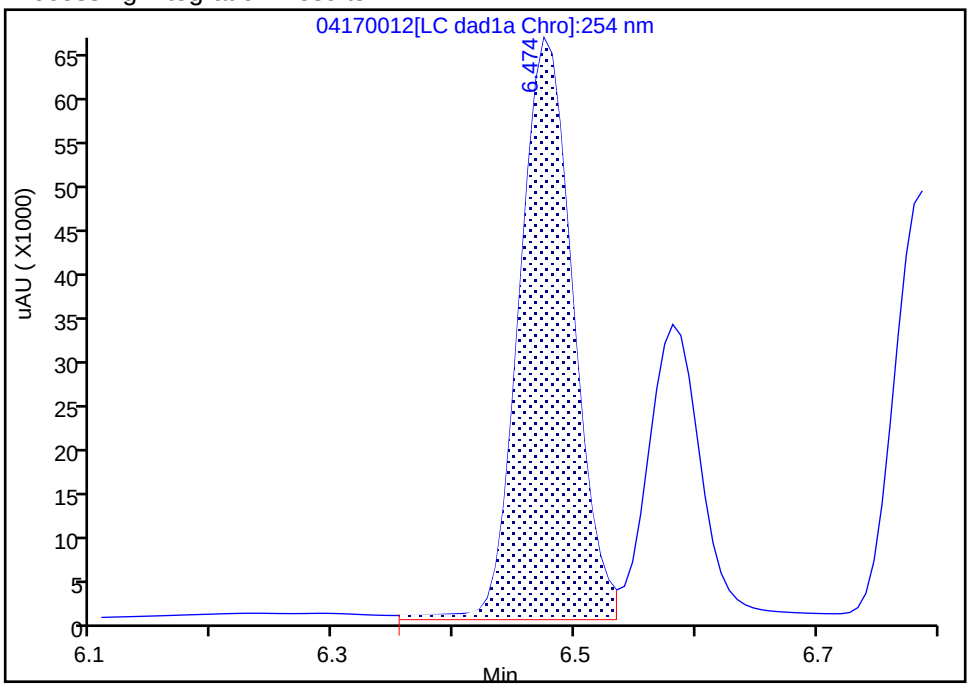
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170012.d				
Injection Date:	17-Apr-2024 21:00:56	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 8				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 TNX, CAS: 13980-04-6

Signal: 1

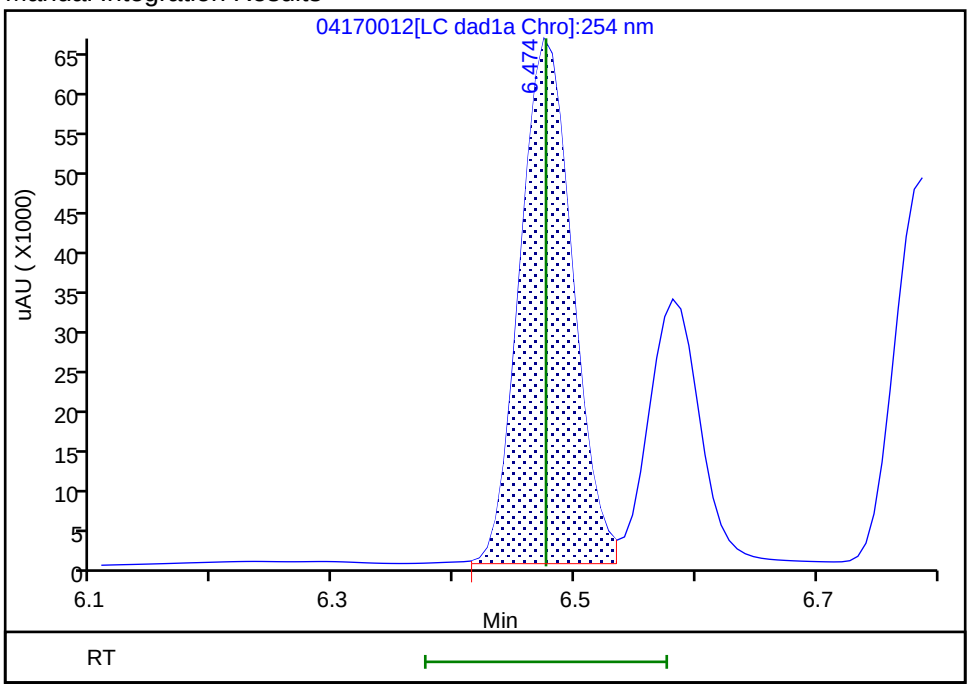
Processing Integration Results

RT: 6.47
Area: 204461
Amount: 0.979758
Amount Units: ug/mL



Manual Integration Results

RT: 6.47
Area: 199537
Amount: 1.002738
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:13:07 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

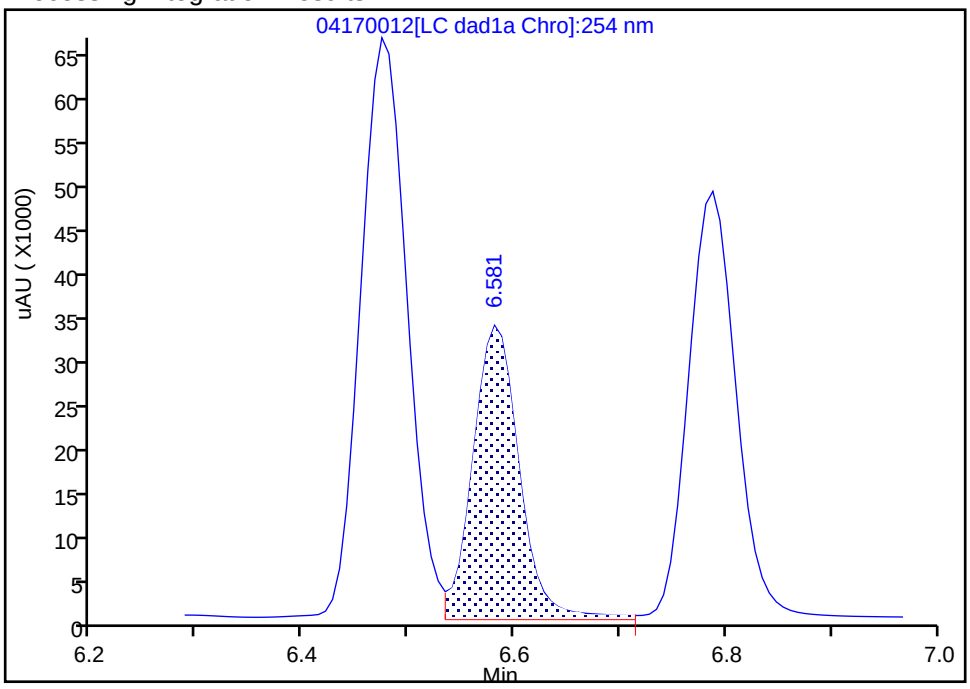
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170012.d				
Injection Date:	17-Apr-2024 21:00:56	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 8				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

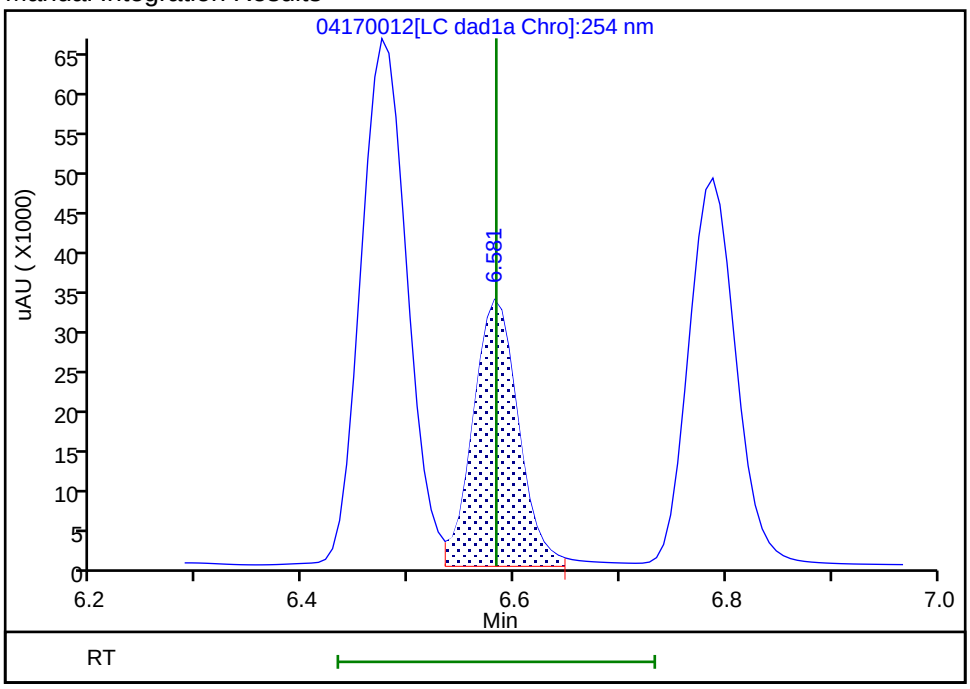
Processing Integration Results

RT: 6.58
Area: 102131
Amount: 0.970072
Amount Units: ug/mL



Manual Integration Results

RT: 6.58
Area: 97787
Amount: 1.023479
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:13:09 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

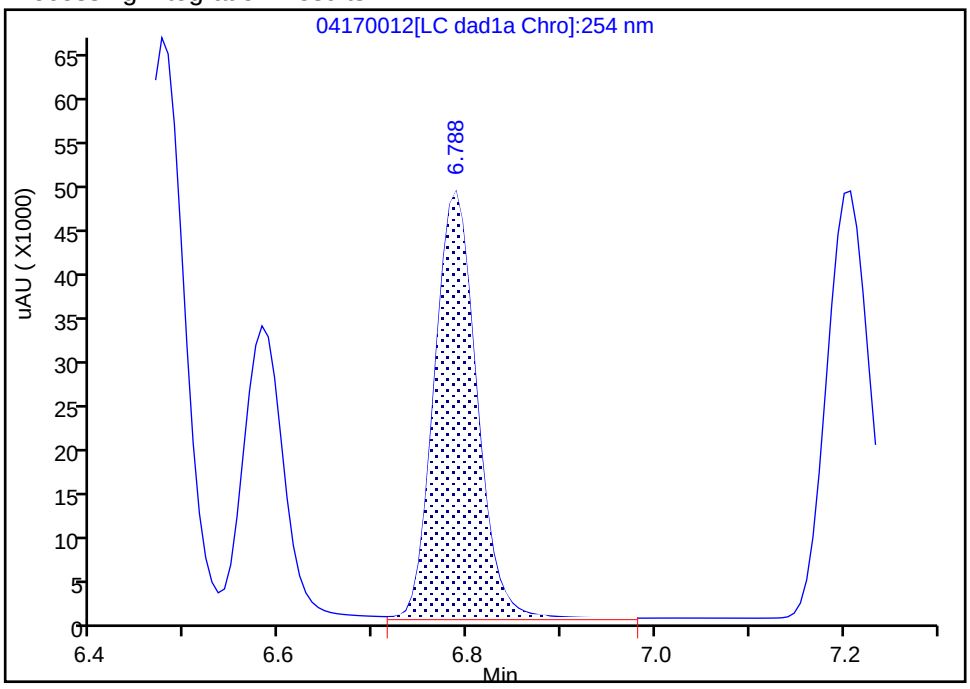
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170012.d				
Injection Date:	17-Apr-2024 21:00:56	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 8				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 DNX, CAS: 80251-29-2

Signal: 1

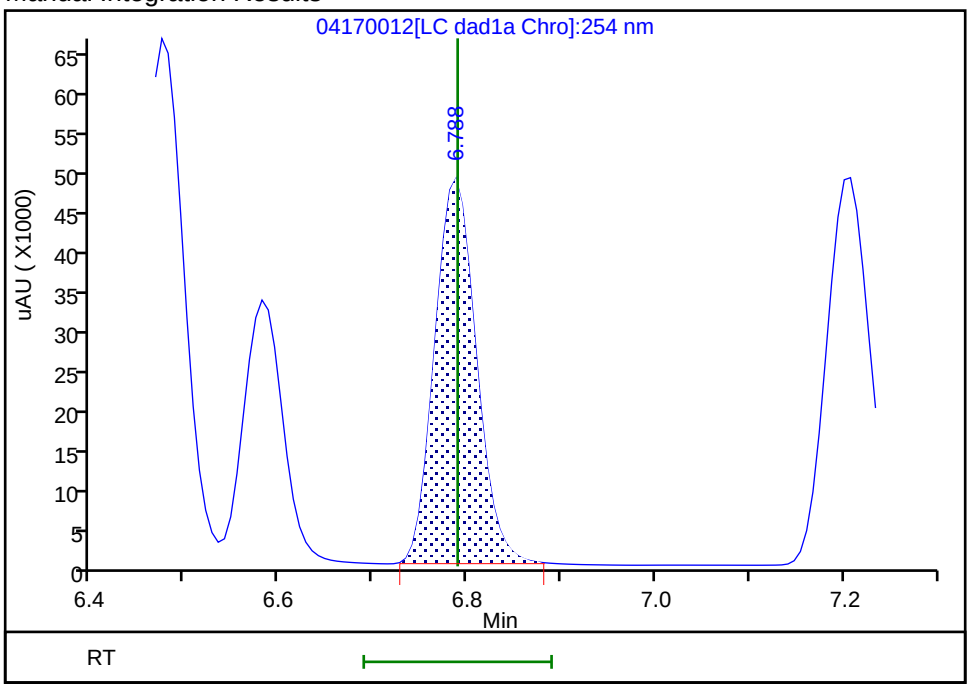
Processing Integration Results

RT: 6.79
Area: 153377
Amount: 0.990791
Amount Units: ug/mL



Manual Integration Results

RT: 6.79
Area: 146952
Amount: 0.997911
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:13:11 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170013.D
Lims ID: IC INT/DMT 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 17-Apr-2024 21:23:54 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT/DMT 7
Operator ID: JZ/JG Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub27

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-Apr-2024 11:59:24 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1675

First Level Reviewer: LV5D Date: 18-Apr-2024 11:14:37

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.476	6.476	0.000	141333	0.7028	0.7102	M
4 HMX	1	6.582	6.583	-0.001	67408	0.7000	0.7055	M
6 DNX	1	6.789	6.789	0.000	103834	0.7014	0.7051	M
7 MNX	1	7.202	7.203	-0.001	113678	0.8183	0.8316	
8 RDX	1	7.582	7.583	-0.001	74871	0.7000	0.6759	
9 2,4,6-Trinitrophenol	1	7.789	7.816	-0.027	55934	0.7000	0.7051	
$ 10 1,2-Dinitrobenzene	1	8.516	8.516	0.000	92511	0.7000	0.7021	
11 1,3,5-Trinitrobenzene	1	8.656	8.656	0.000	151045	0.7000	0.6778	
12 1,3-Dinitrobenzene	1	9.276	9.276	0.000	209122	0.7000	0.6984	
13 Nitrobenzene	1	9.629	9.636	-0.007	136899	0.7000	0.6973	
14 3,5-Dinitroaniline	1	9.869	9.876	-0.007	153531	0.7000	0.6958	
15 Tetryl	1	9.956	9.963	-0.007	127375	0.7000	0.7014	
16 Nitroglycerin	2	10.422	10.429	-0.007	467214	7.00	7.03	
17 2,4,6-Trinitrotoluene	1	10.862	10.869	-0.007	150301	0.7000	0.6985	
18 4-Amino-2,6-dinitrotoluene	1	11.042	11.049	-0.007	103016	0.7000	0.6870	
19 2-Amino-4,6-dinitrotoluene	1	11.302	11.309	-0.007	140054	0.7000	0.7009	
20 2,6-Dinitrotoluene	1	11.449	11.449	0.000	100540	0.7000	0.6843	
21 2,4-Dinitrotoluene	1	11.622	11.629	-0.007	202952	0.7000	0.6954	
22 o-Nitrotoluene	1	12.416	12.423	-0.007	88069	0.7000	0.6811	
23 p-Nitrotoluene	1	12.842	12.843	-0.001	75957	0.7000	0.6734	
24 m-Nitrotoluene	1	13.396	13.403	-0.007	96036	0.7000	0.6666	
25 PETN	2	14.482	14.483	-0.001	495856	7.00	6.89	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00016	Amount Added:	35.00	Units: uL
8330IntermStk_00080	Amount Added:	70.00	Units: uL

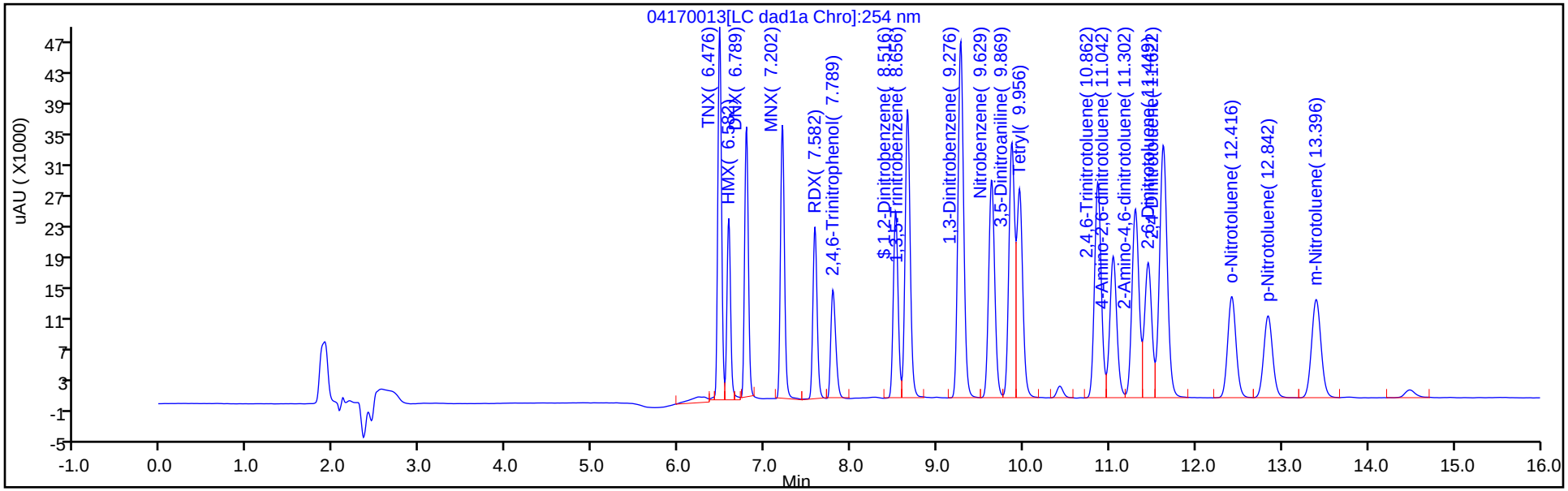
Report Date: 18-Apr-2024 11:59:24 Chrom Revision: 2.3 09-Apr-2024 17:43:44

Eurofins Denver

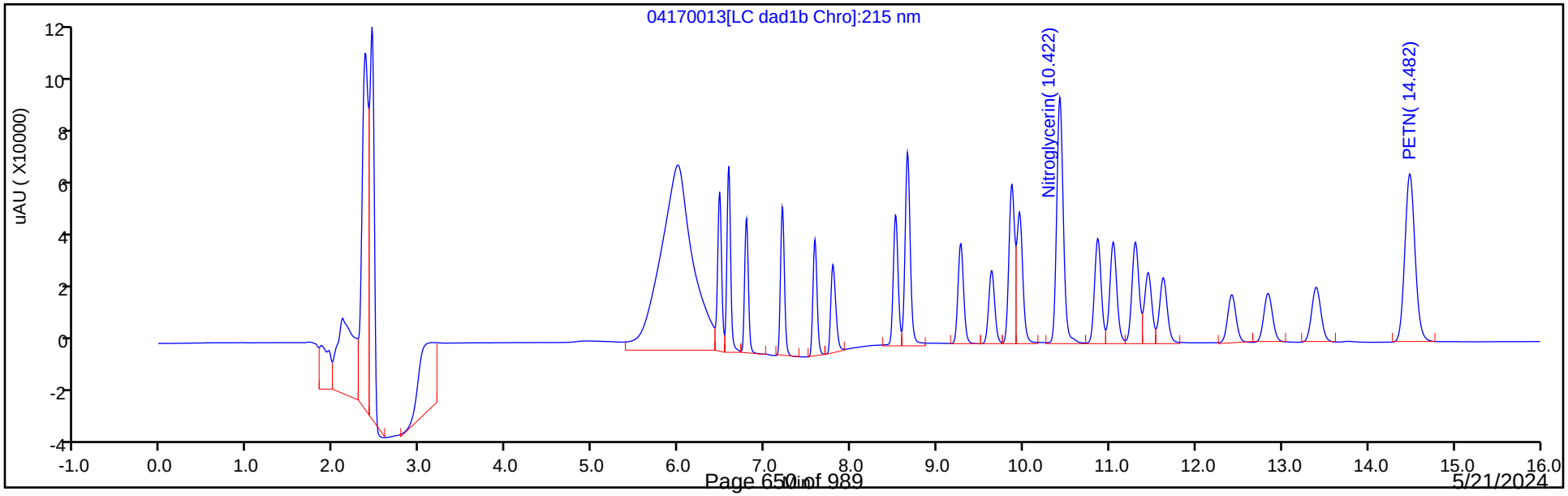
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170013.d

Injection Date:	17-Apr-2024 21:23:54	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	IC INT/DMT 7			Worklist Smp#:	13
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

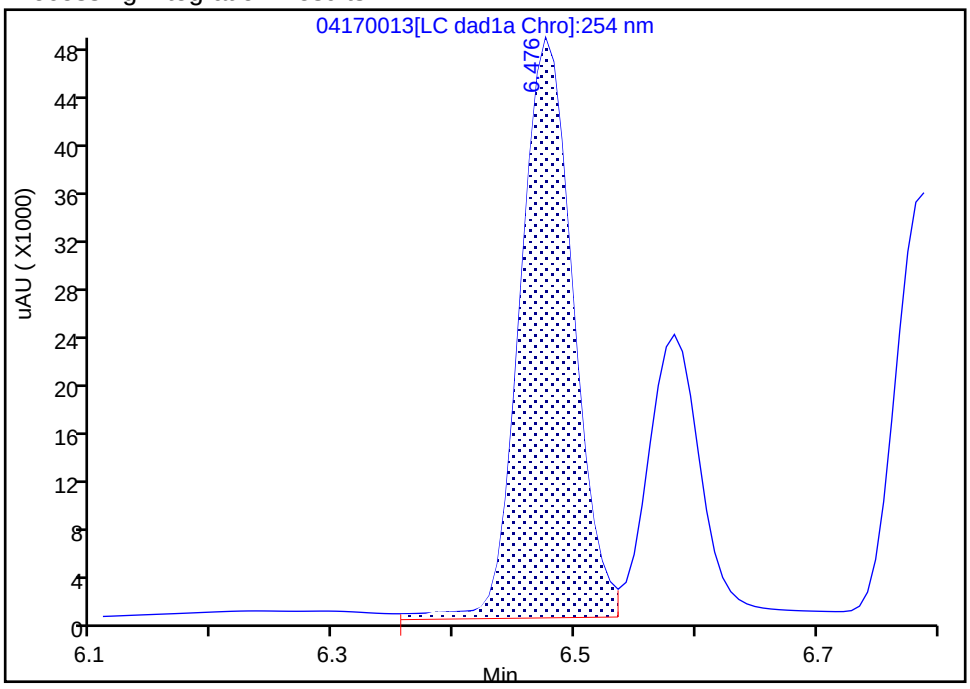
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170013.d				
Injection Date:	17-Apr-2024 21:23:54	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 7				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 TNX, CAS: 13980-04-6

Signal: 1

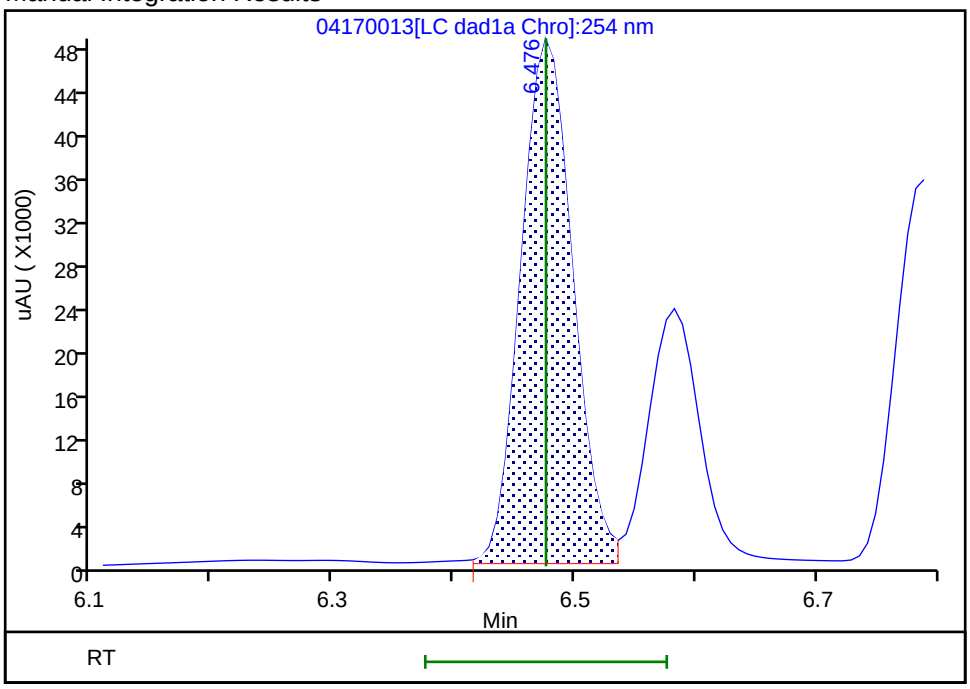
Processing Integration Results

RT: 6.48
Area: 146464
Amount: 0.704521
Amount Units: ug/mL



Manual Integration Results

RT: 6.48
Area: 141333
Amount: 0.710244
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:13:45 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

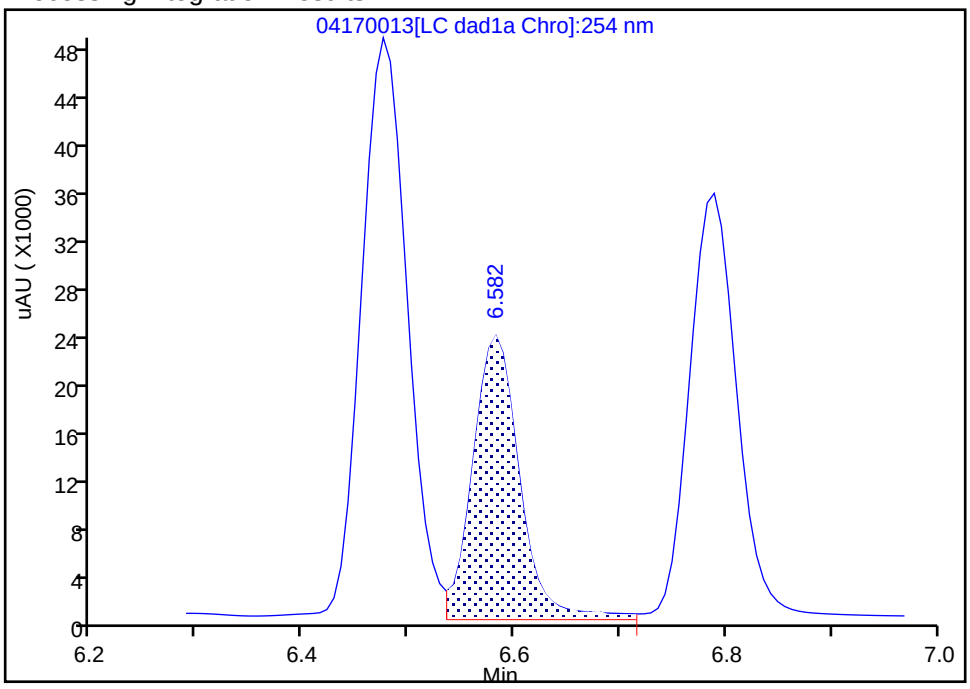
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170013.d				
Injection Date:	17-Apr-2024 21:23:54	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 7				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

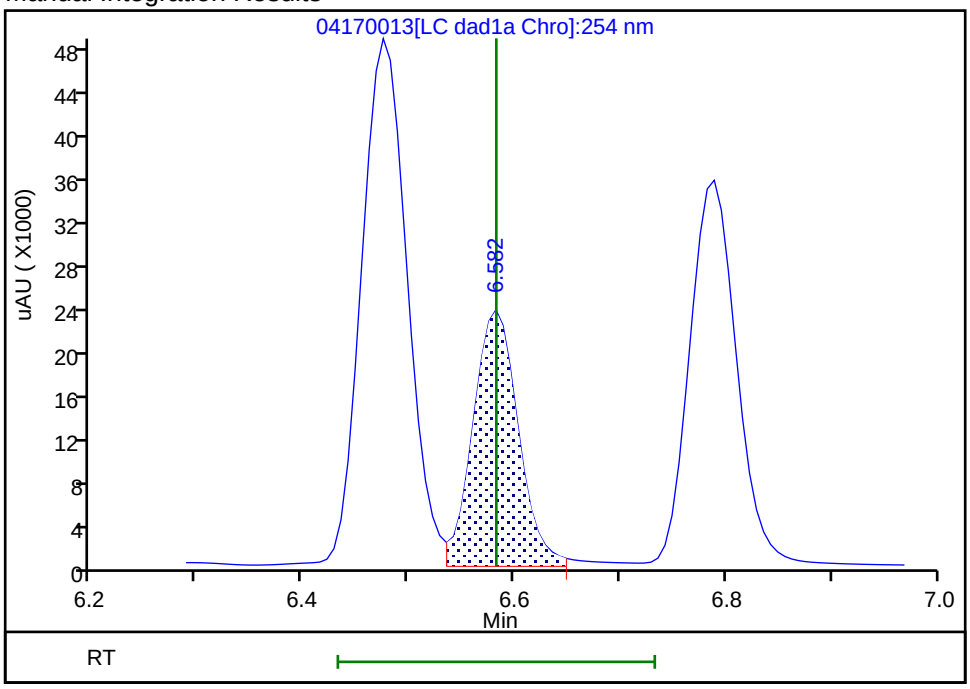
Processing Integration Results

RT: 6.58
Area: 71695
Amount: 0.685513
Amount Units: ug/mL



Manual Integration Results

RT: 6.58
Area: 67408
Amount: 0.705520
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:13:46 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

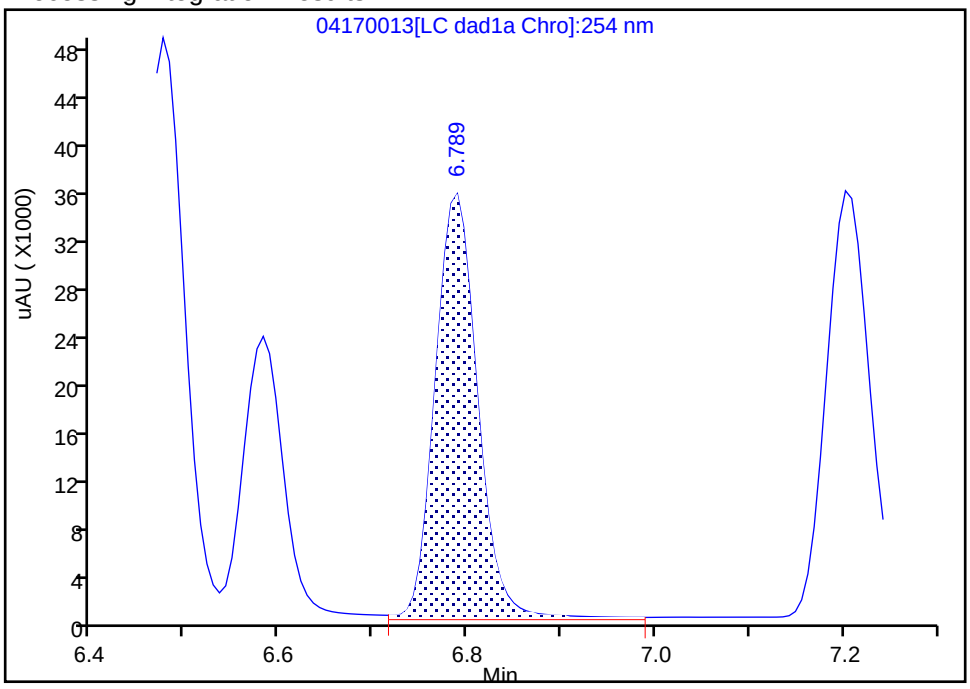
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170013.d				
Injection Date:	17-Apr-2024 21:23:54	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 7				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 DNX, CAS: 80251-29-2

Signal: 1

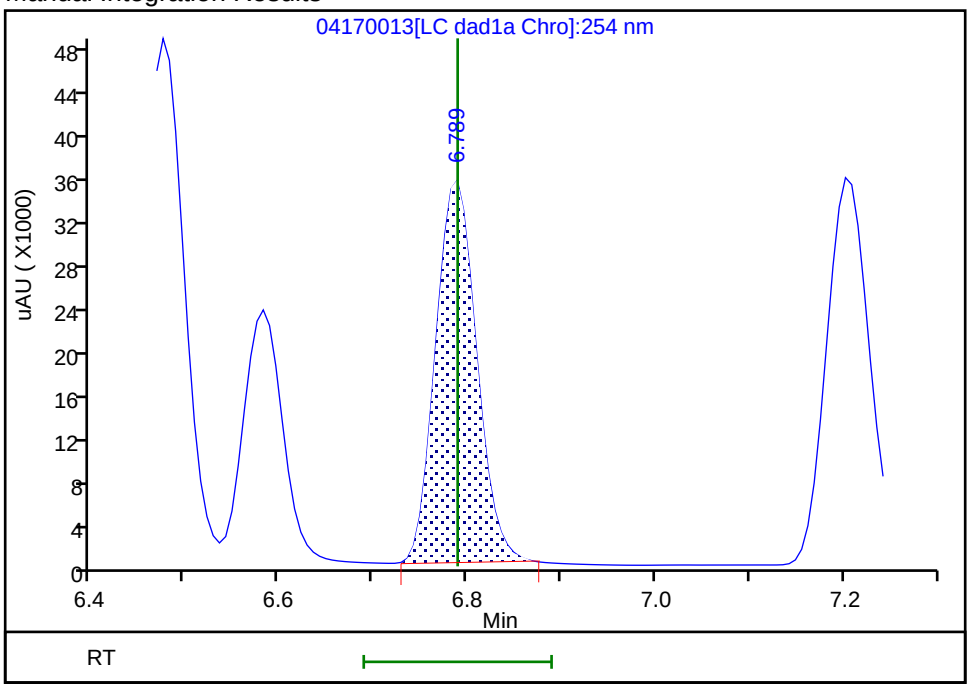
Processing Integration Results

RT: 6.79
Area: 109725
Amount: 0.724468
Amount Units: ug/mL



Manual Integration Results

RT: 6.79
Area: 103834
Amount: 0.705108
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:13:50 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170014.D
Lims ID: IC INT/DMT 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 17-Apr-2024 21:46:50 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT/DMT 6
Operator ID: JZ/JG Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub27

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-Apr-2024 11:59:25 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1675

First Level Reviewer: LV5D Date: 18-Apr-2024 11:15:01

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.479	6.476	0.003	78789	0.4016	0.3959	M
4 HMX	1	6.586	6.583	0.003	38101	0.4000	0.3988	M
6 DNX	1	6.786	6.789	-0.003	58701	0.4008	0.3986	M
7 MNX	1	7.206	7.203	0.003	64510	0.4676	0.4719	
8 RDX	1	7.586	7.583	0.003	42747	0.4000	0.3859	
9 2,4,6-Trinitrophenol	1	7.806	7.816	-0.010	31644	0.4000	0.3989	
$ 10 1,2-Dinitrobenzene	1	8.519	8.516	0.003	52999	0.4000	0.4019	
11 1,3,5-Trinitrobenzene	1	8.659	8.656	0.003	86362	0.4000	0.3875	
12 1,3-Dinitrobenzene	1	9.279	9.276	0.003	119137	0.4000	0.3979	
13 Nitrobenzene	1	9.639	9.636	0.003	77471	0.4000	0.3946	
14 3,5-Dinitroaniline	1	9.872	9.876	-0.004	86047	0.4000	0.3904	
15 Tetryl	1	9.959	9.963	-0.004	74126	0.4000	0.4082	
16 Nitroglycerin	2	10.432	10.429	0.003	266924	4.00	4.02	
17 2,4,6-Trinitrotoluene	1	10.872	10.869	0.003	85495	0.4000	0.3973	
18 4-Amino-2,6-dinitrotoluene	1	11.052	11.049	0.003	59155	0.4000	0.3945	
19 2-Amino-4,6-dinitrotoluene	1	11.306	11.309	-0.003	78856	0.4000	0.3947	
20 2,6-Dinitrotoluene	1	11.452	11.449	0.003	58947	0.4000	0.4012	
21 2,4-Dinitrotoluene	1	11.632	11.629	0.003	115355	0.4000	0.3953	
22 o-Nitrotoluene	1	12.426	12.423	0.003	50092	0.4000	0.3874	
23 p-Nitrotoluene	1	12.846	12.843	0.003	42973	0.4000	0.3810	
24 m-Nitrotoluene	1	13.406	13.403	0.003	54437	0.4000	0.3779	
25 PETN	2	14.492	14.483	0.009	282889	4.00	3.93	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00080	Amount Added:	40.00	Units: uL
8330 DMT_00016	Amount Added:	20.00	Units: uL

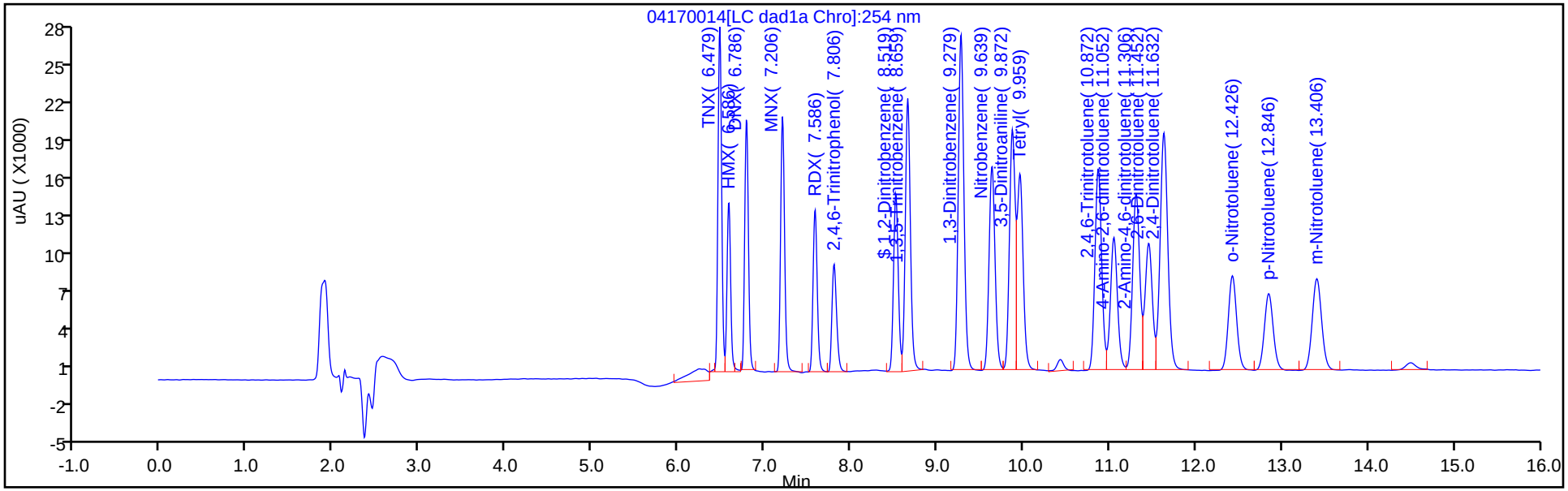
Report Date: 18-Apr-2024 11:59:25 Chrom Revision: 2.3 09-Apr-2024 17:43:44

Eurofins Denver

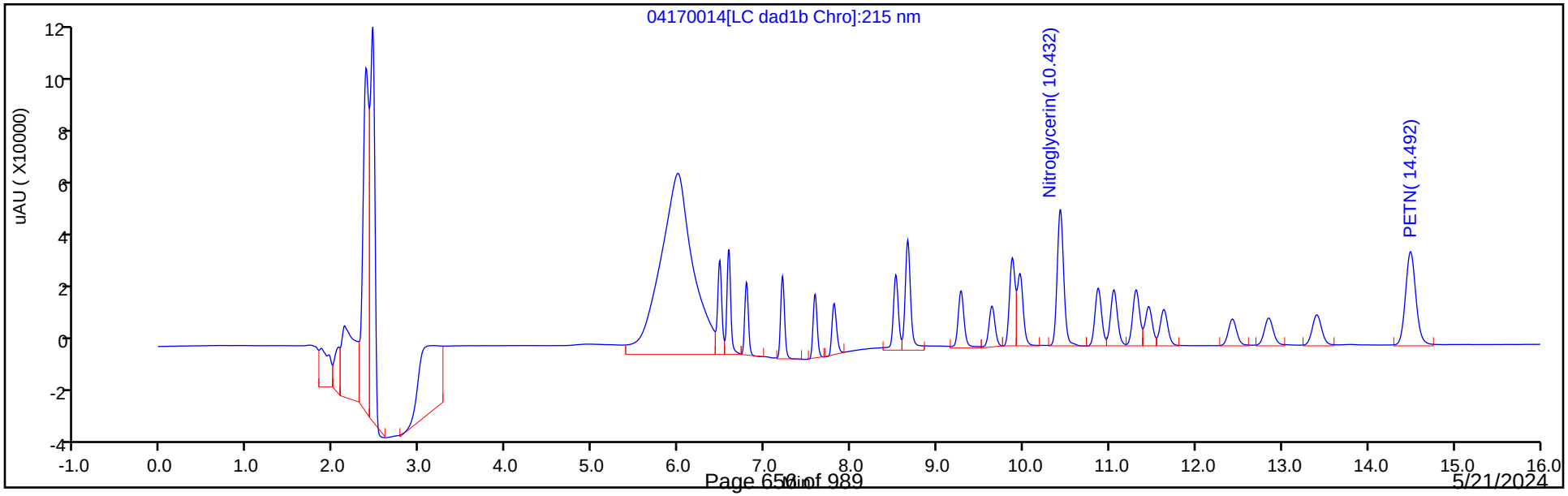
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170014.d

Injection Date:	17-Apr-2024 21:46:50	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	IC INT/DMT 6			Worklist Smp#:	14
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

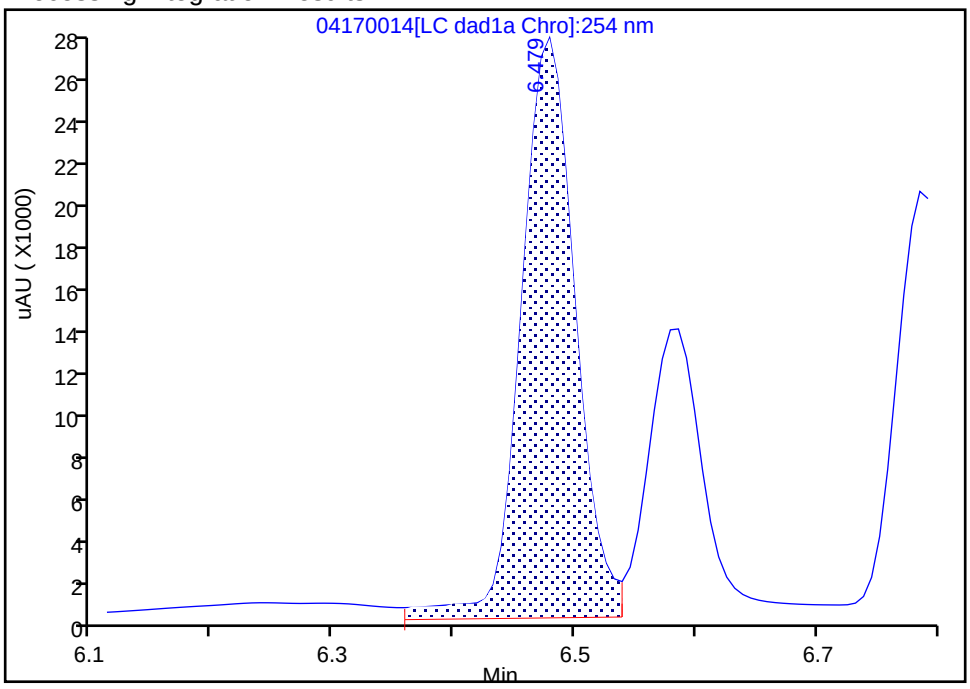
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170014.d				
Injection Date:	17-Apr-2024 21:46:50	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 6				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 TNX, CAS: 13980-04-6

Signal: 1

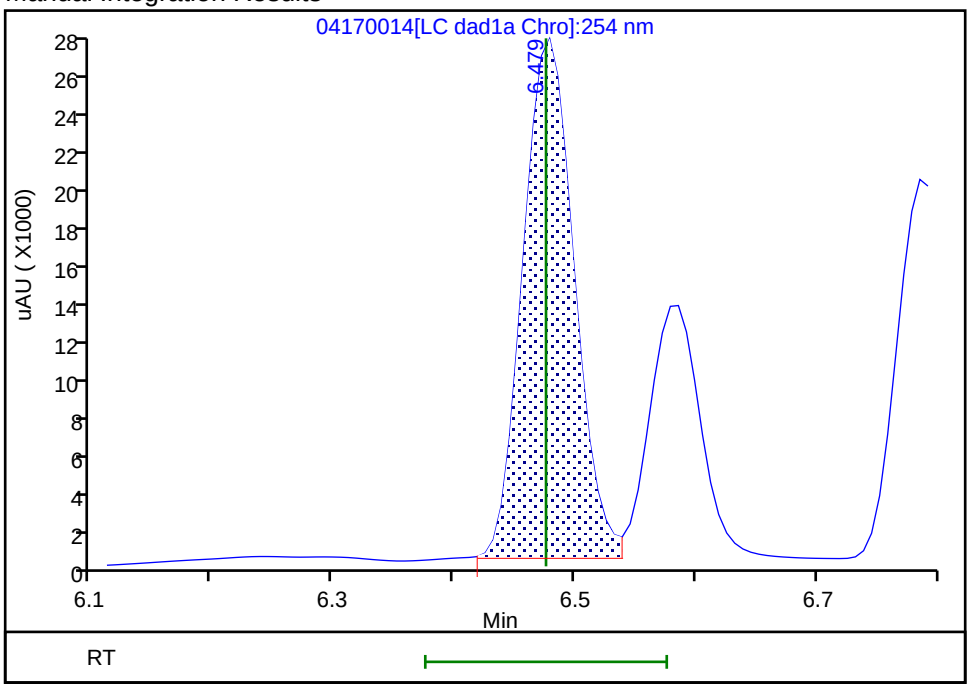
Processing Integration Results

RT: 6.48
Area: 85027
Amount: 0.410599
Amount Units: ug/mL



Manual Integration Results

RT: 6.48
Area: 78789
Amount: 0.395940
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:14:54 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

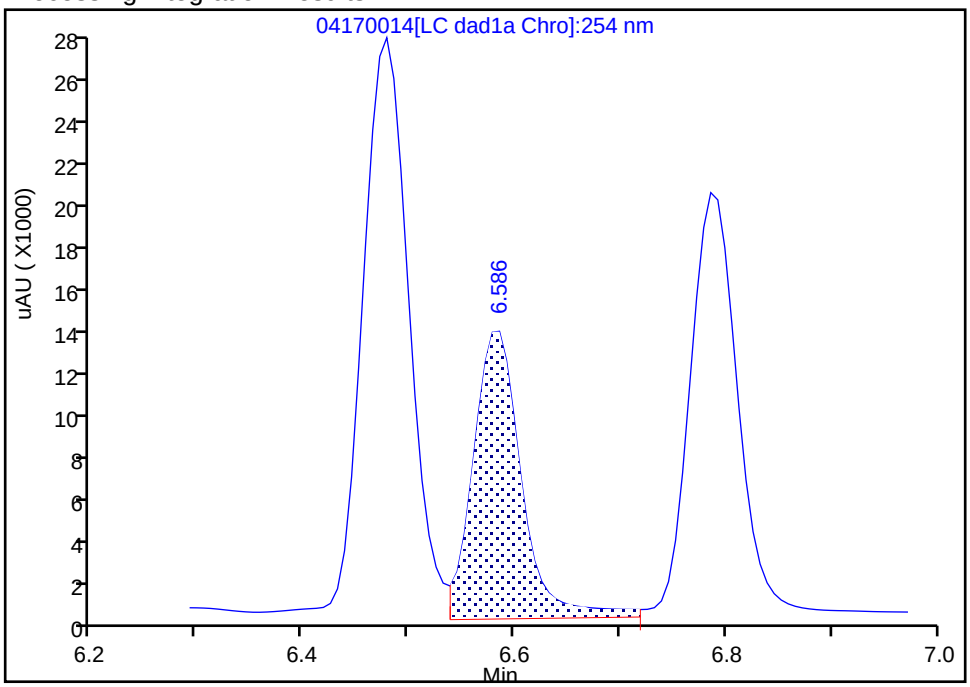
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170014.d				
Injection Date:	17-Apr-2024 21:46:50	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 6				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

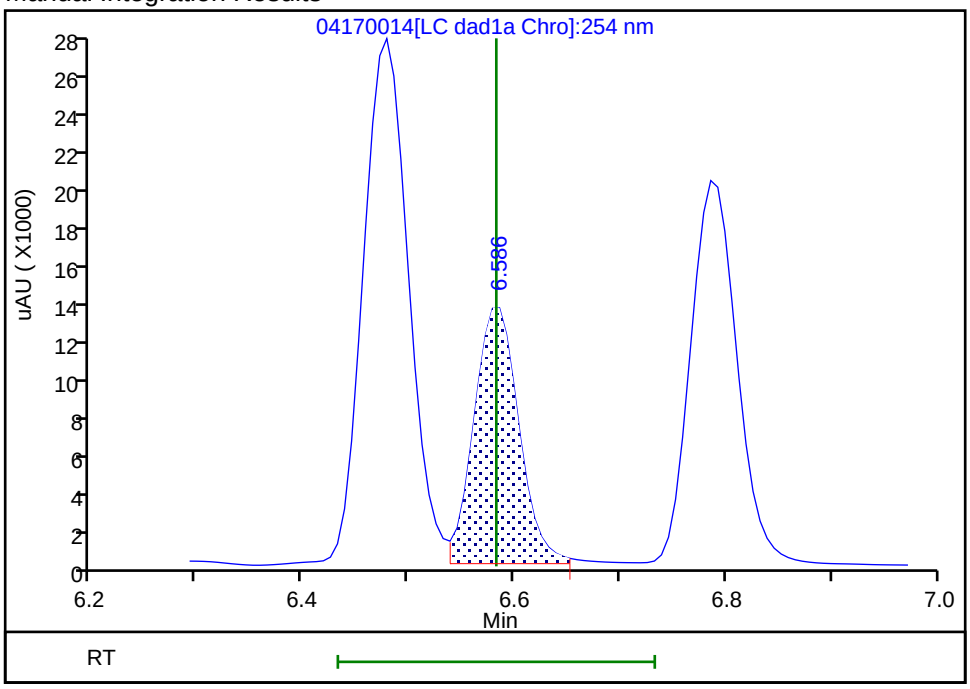
Processing Integration Results

RT: 6.59
Area: 42787
Amount: 0.411788
Amount Units: ug/mL



Manual Integration Results

RT: 6.59
Area: 38101
Amount: 0.398781
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:14:55 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

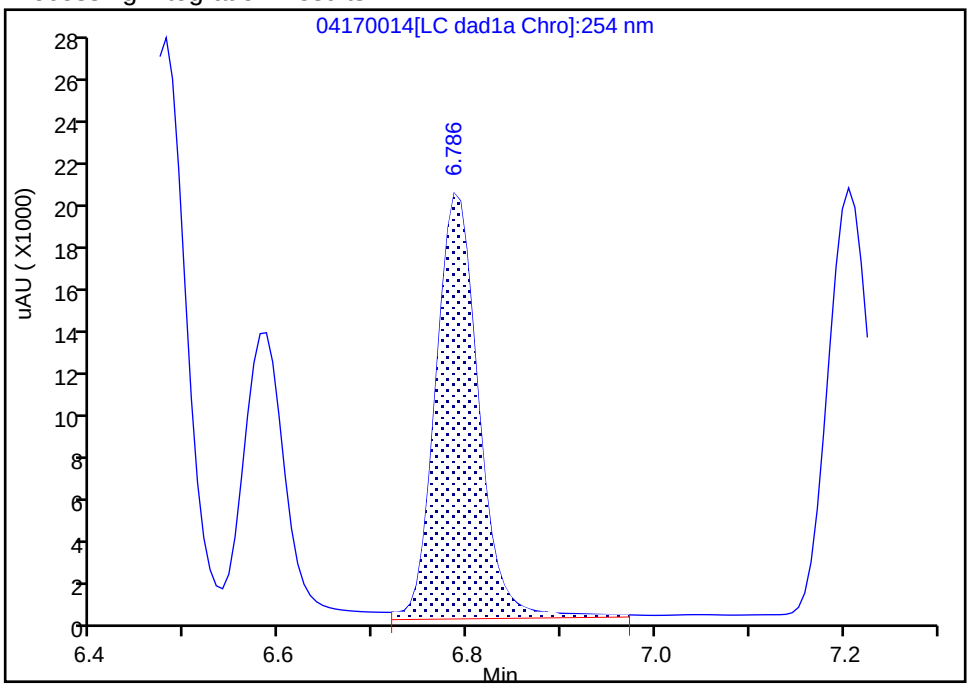
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170014.d				
Injection Date:	17-Apr-2024 21:46:50	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 6				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 DNX, CAS: 80251-29-2

Signal: 1

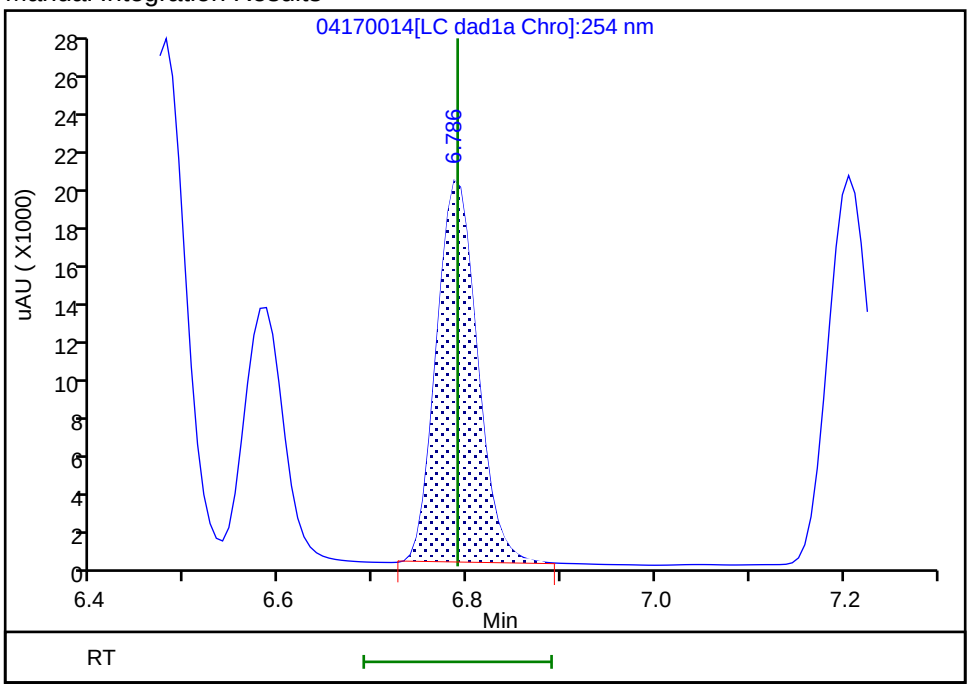
Processing Integration Results

RT: 6.79
Area: 62648
Amount: 0.406964
Amount Units: ug/mL



Manual Integration Results

RT: 6.79
Area: 58701
Amount: 0.398623
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:14:58 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170015.D
Lims ID: IC INT/DMT 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 17-Apr-2024 22:09:45 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT/DMT 5
Operator ID: JZ/JG Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub27

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-Apr-2024 11:59:26 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1675

First Level Reviewer: LV5D Date: 18-Apr-2024 11:15:36

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.476	6.476	0.000	49234	0.2510	0.2474	M
4 HMX	1	6.582	6.583	-0.001	23583	0.2500	0.2468	M
6 DNX	1	6.789	6.789	0.000	36872	0.2505	0.2504	M
7 MNX	1	7.209	7.203	0.006	39930	0.2923	0.2921	
8 RDX	1	7.582	7.583	-0.001	26844	0.2500	0.2423	
9 2,4,6-Trinitrophenol	1	7.809	7.816	-0.007	19748	0.2500	0.2489	
$ 10 1,2-Dinitrobenzene	1	8.522	8.516	0.006	32787	0.2500	0.2484	
11 1,3,5-Trinitrobenzene	1	8.656	8.656	0.000	54073	0.2500	0.2426	
12 1,3-Dinitrobenzene	1	9.276	9.276	0.000	74190	0.2500	0.2478	
13 Nitrobenzene	1	9.636	9.636	0.000	47641	0.2500	0.2427	
14 3,5-Dinitroaniline	1	9.876	9.876	0.000	54841	0.2500	0.2492	
15 Tetryl	1	9.962	9.963	-0.001	45082	0.2500	0.2483	
16 Nitroglycerin	2	10.429	10.429	0.000	167486	2.50	2.52	
17 2,4,6-Trinitrotoluene	1	10.869	10.869	0.000	53593	0.2500	0.2490	
18 4-Amino-2,6-dinitrotoluene	1	11.049	11.049	0.000	36831	0.2500	0.2456	
19 2-Amino-4,6-dinitrotoluene	1	11.309	11.309	0.000	49951	0.2500	0.2500	
20 2,6-Dinitrotoluene	1	11.456	11.449	0.007	35939	0.2500	0.2446	
21 2,4-Dinitrotoluene	1	11.629	11.629	0.000	72314	0.2500	0.2478	
22 o-Nitrotoluene	1	12.422	12.423	-0.001	31023	0.2500	0.2399	
23 p-Nitrotoluene	1	12.842	12.843	-0.001	26871	0.2500	0.2382	
24 m-Nitrotoluene	1	13.402	13.403	-0.001	33952	0.2500	0.2357	M
25 PETN	2	14.489	14.483	0.006	176891	2.50	2.46	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00080	Amount Added:	25.00	Units: uL
8330 DMT_00016	Amount Added:	12.50	Units: uL

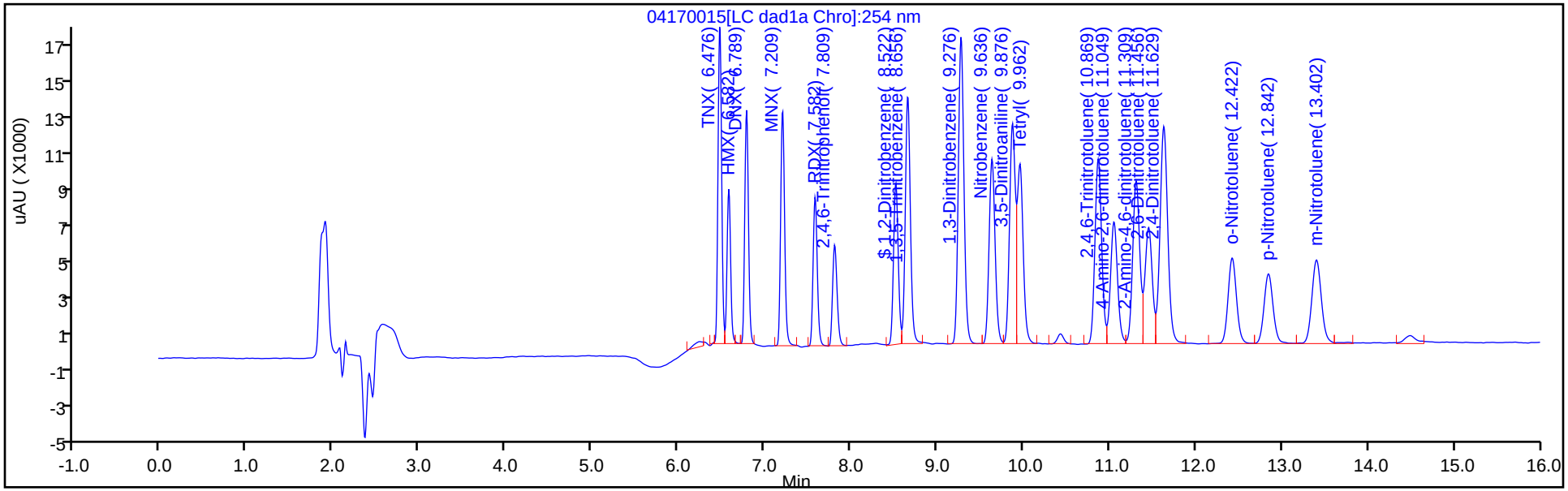
Report Date: 18-Apr-2024 11:59:26 Chrom Revision: 2.3 09-Apr-2024 17:43:44

Eurofins Denver

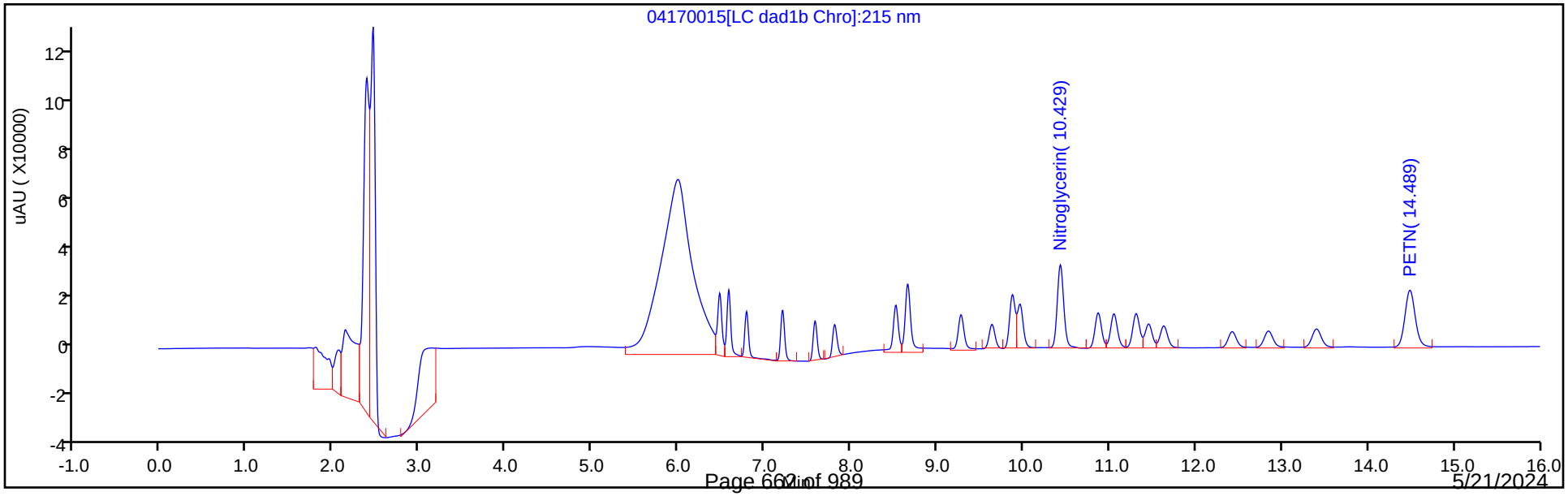
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170015.d

Injection Date:	17-Apr-2024 22:09:45	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	IC INT/DMT 5			Worklist Smp#:	15
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

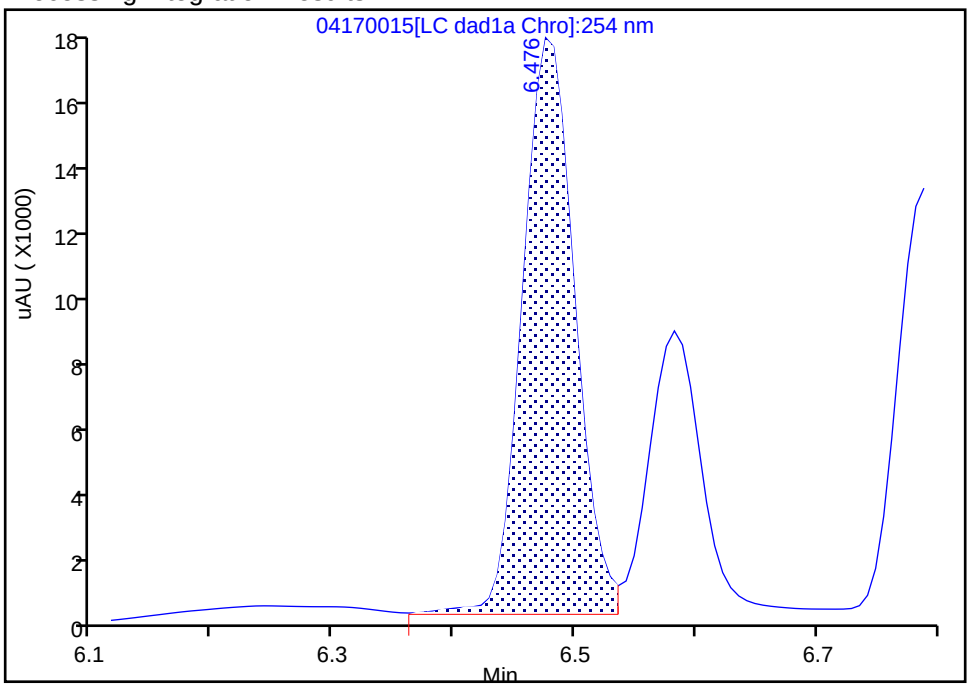
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170015.d				
Injection Date:	17-Apr-2024 22:09:45	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 5				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 TNX, CAS: 13980-04-6

Signal: 1

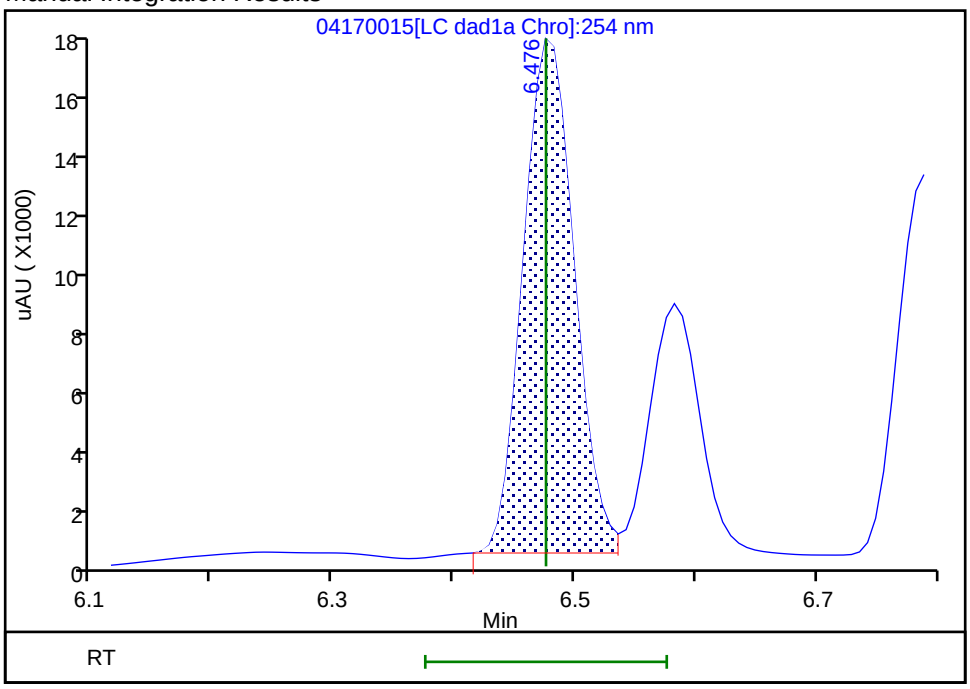
Processing Integration Results

RT: 6.48
Area: 50637
Amount: 0.246583
Amount Units: ug/mL



Manual Integration Results

RT: 6.48
Area: 49234
Amount: 0.247417
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:15:14 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

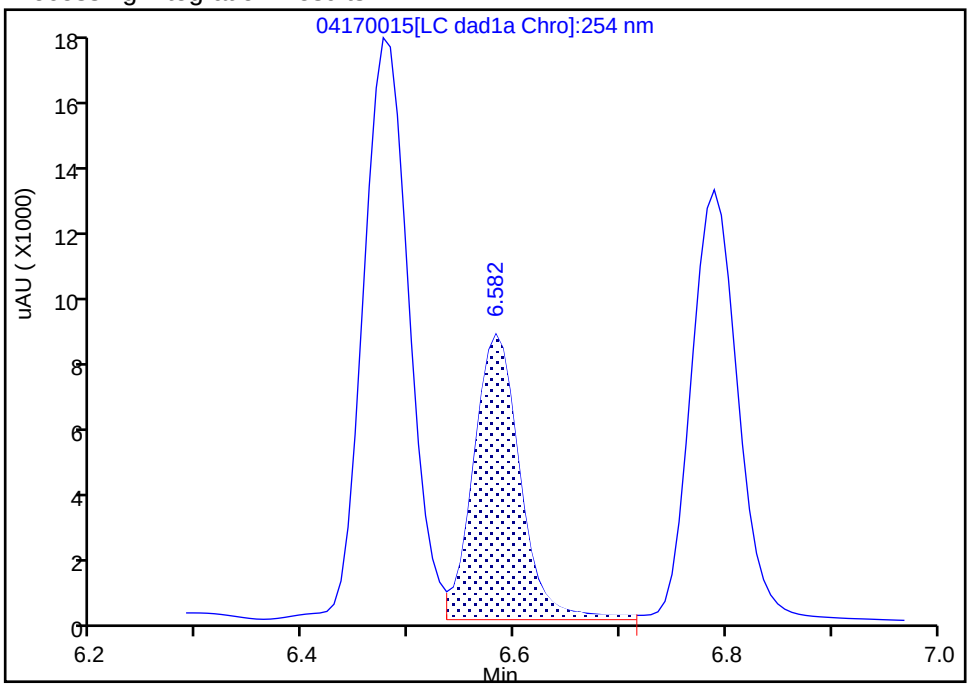
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170015.d
Injection Date: 17-Apr-2024 22:09:45 Instrument ID: CHHPLC_X3
Lims ID: IC INT/DMT 5
Client ID:
Operator ID: JZ/JG ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

4 HMX, CAS: 2691-41-0

Signal: 1

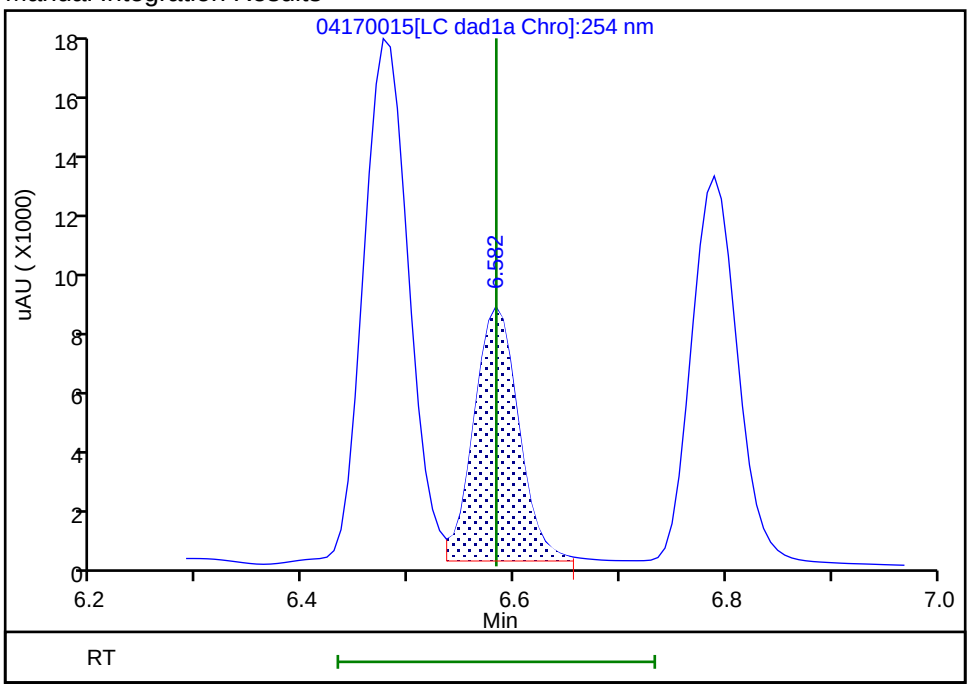
Processing Integration Results

RT: 6.58
Area: 25313
Amount: 0.246706
Amount Units: ug/mL



Manual Integration Results

RT: 6.58
Area: 23583
Amount: 0.246829
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:15:15 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

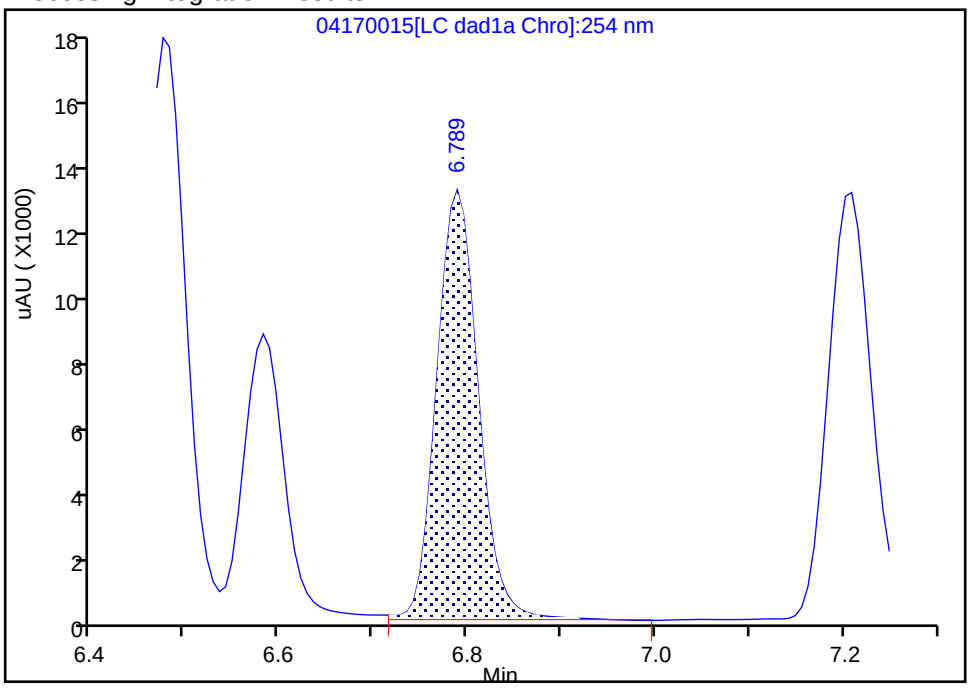
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170015.d				
Injection Date:	17-Apr-2024 22:09:45	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 5				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 DNX, CAS: 80251-29-2

Signal: 1

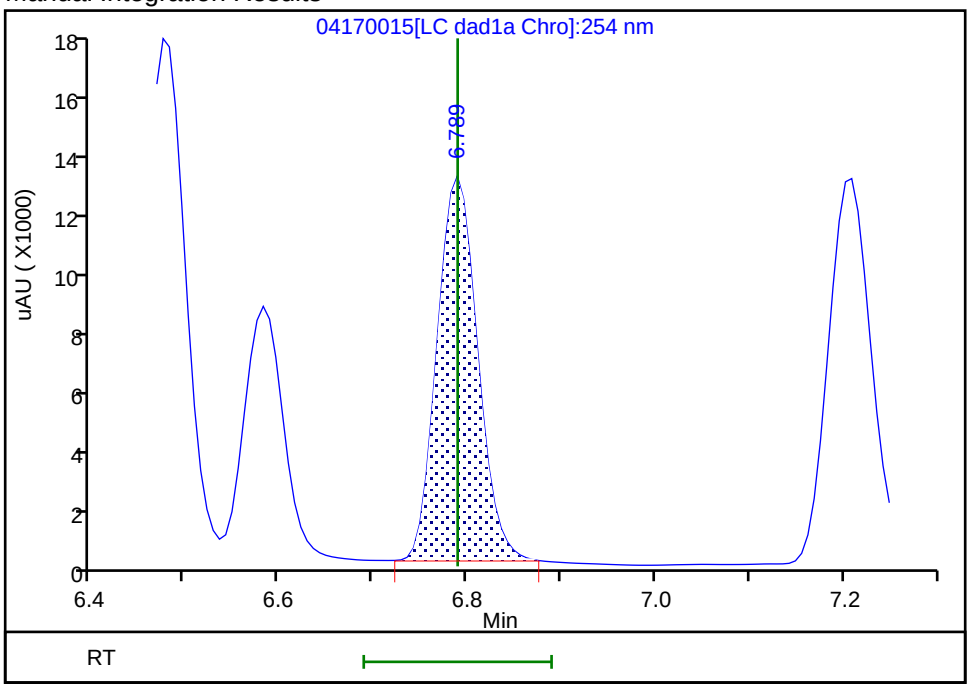
Processing Integration Results

RT: 6.79
Area: 38558
Amount: 0.252268
Amount Units: ug/mL



Manual Integration Results

RT: 6.79
Area: 36872
Amount: 0.250388
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:15:17 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

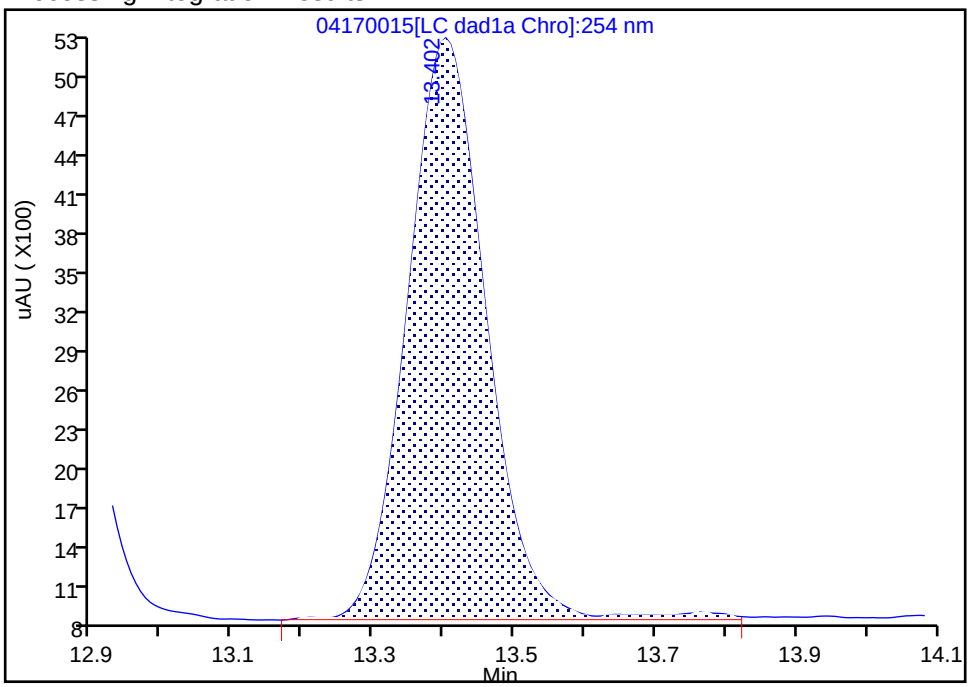
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170015.d
Injection Date: 17-Apr-2024 22:09:45 Instrument ID: CHHPLC_X3
Lims ID: IC INT/DMT 5
Client ID:
Operator ID: JZ/JG ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

24 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

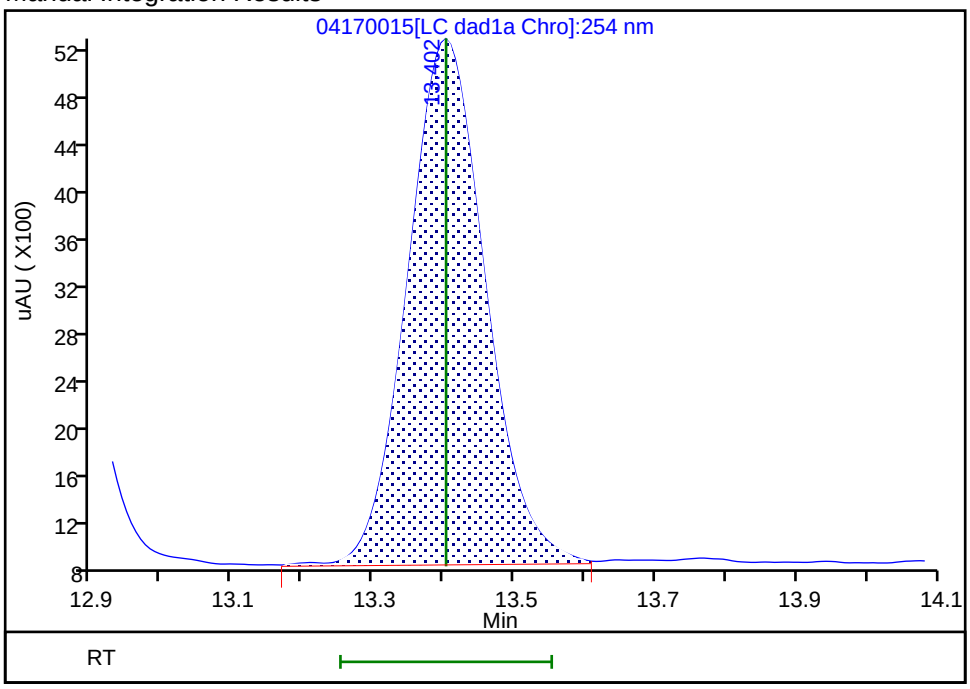
Processing Integration Results

RT: 13.40
Area: 34432
Amount: 0.238653
Amount Units: ug/mL



Manual Integration Results

RT: 13.40
Area: 33952
Amount: 0.235674
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:15:33 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170016.D
Lims ID: IC INT/DMT 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 17-Apr-2024 22:32:42 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT/DMT 4
Operator ID: JZ/JG Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub27

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-Apr-2024 11:59:27 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1675

First Level Reviewer: LV5D Date: 18-Apr-2024 11:16:09

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.476	6.476	0.000	20006	0.1004	0.1005	M
4 HMX	1	6.583	6.583	0.000	9645	0.1000	0.1009	M
6 DNX	1	6.789	6.789	0.000	14834	0.1002	0.1007	M
7 MNX	1	7.203	7.203	0.000	15807	0.1169	0.1156	
8 RDX	1	7.583	7.583	0.000	11162	0.1000	0.1008	
9 2,4,6-Trinitrophenol	1	7.816	7.816	0.000	8016	0.1000	0.1011	
$ 10 1,2-Dinitrobenzene	1	8.516	8.516	0.000	13450	0.1000	0.1015	
11 1,3,5-Trinitrobenzene	1	8.656	8.656	0.000	22129	0.1000	0.0993	
12 1,3-Dinitrobenzene	1	9.276	9.276	0.000	30359	0.1000	0.1014	
13 Nitrobenzene	1	9.636	9.636	0.000	20035	0.1000	0.1020	
14 3,5-Dinitroaniline	1	9.876	9.876	0.000	22651	0.1000	0.1036	
15 Tetryl	1	9.963	9.963	0.000	18238	0.1000	0.1004	
16 Nitroglycerin	2	10.429	10.429	0.000	71367	1.00	1.07	
17 2,4,6-Trinitrotoluene	1	10.869	10.869	0.000	21912	0.1000	0.1018	
18 4-Amino-2,6-dinitrotoluene	1	11.049	11.049	0.000	15344	0.1000	0.1023	
19 2-Amino-4,6-dinitrotoluene	1	11.309	11.309	0.000	20033	0.1000	0.1003	
20 2,6-Dinitrotoluene	1	11.449	11.449	0.000	15218	0.1000	0.1036	
21 2,4-Dinitrotoluene	1	11.629	11.629	0.000	29452	0.1000	0.1009	
22 o-Nitrotoluene	1	12.423	12.423	0.000	12977	0.1000	0.1004	
23 p-Nitrotoluene	1	12.843	12.843	0.000	11360	0.1000	0.1007	
24 m-Nitrotoluene	1	13.403	13.403	0.000	14207	0.1000	0.0986	
25 PETN	2	14.483	14.483	0.000	72600	1.00	1.01	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00080	Amount Added: 10.00	Units: uL
8330 DMT_00016	Amount Added: 5.00	Units: uL

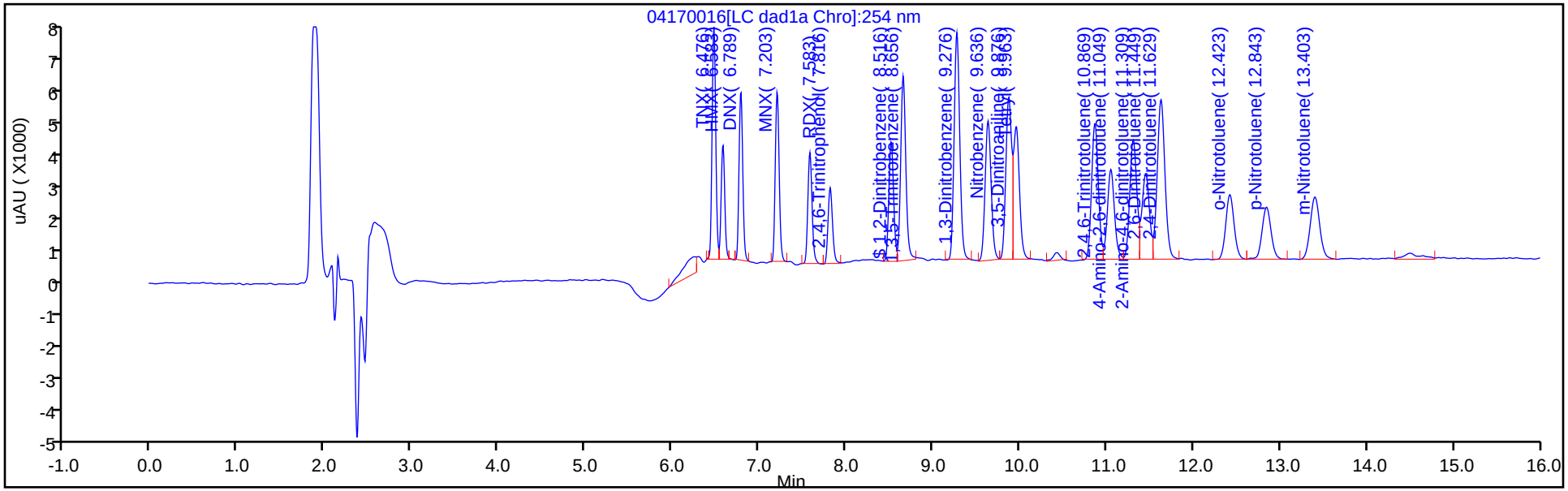
Report Date: 18-Apr-2024 11:59:27 Chrom Revision: 2.3 09-Apr-2024 17:43:44

Eurofins Denver

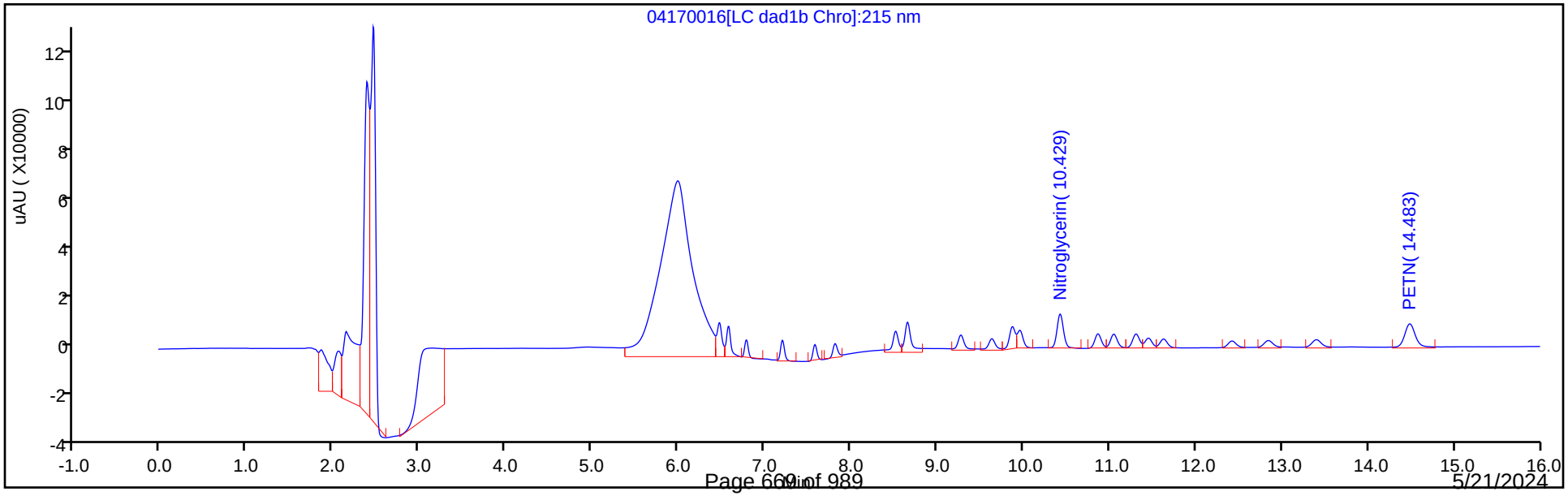
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170016.d

Injection Date:	17-Apr-2024 22:32:42	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	IC INT/DMT 4			Worklist Smp#:	16
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

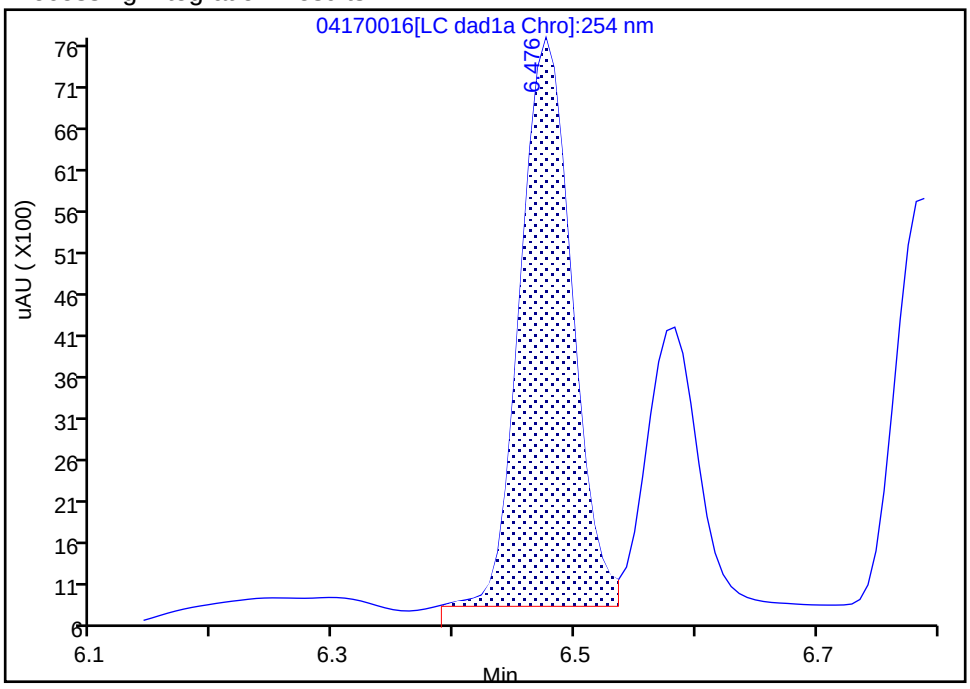
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170016.d				
Injection Date:	17-Apr-2024 22:32:42	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 4				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 TNX, CAS: 13980-04-6

Signal: 1

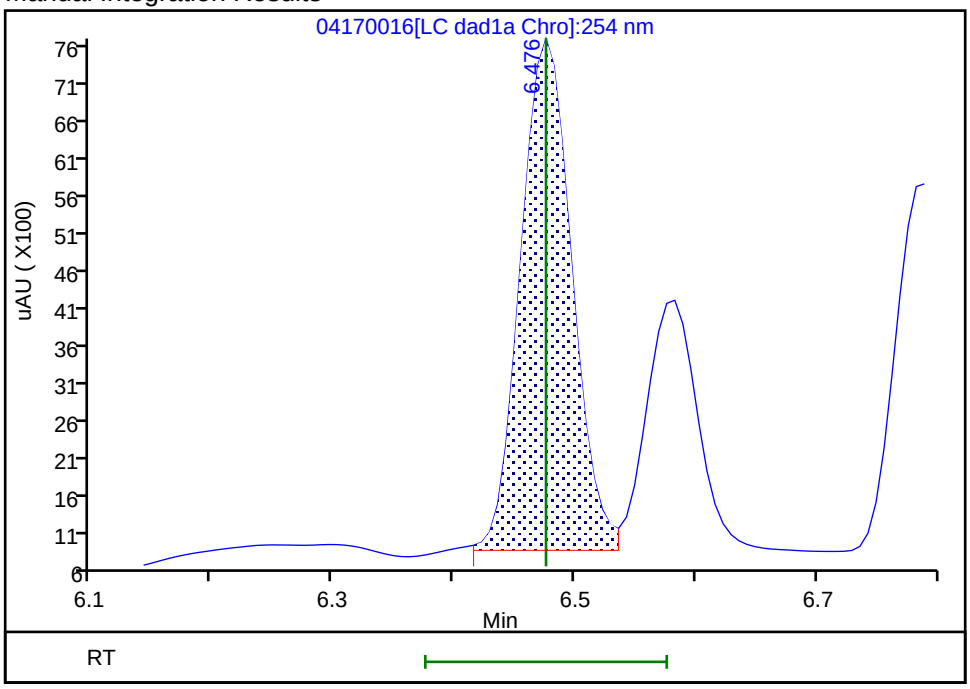
Processing Integration Results

RT: 6.48
Area: 20438
Amount: 0.099827
Amount Units: ug/mL



Manual Integration Results

RT: 6.48
Area: 20006
Amount: 0.100537
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:16:01 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

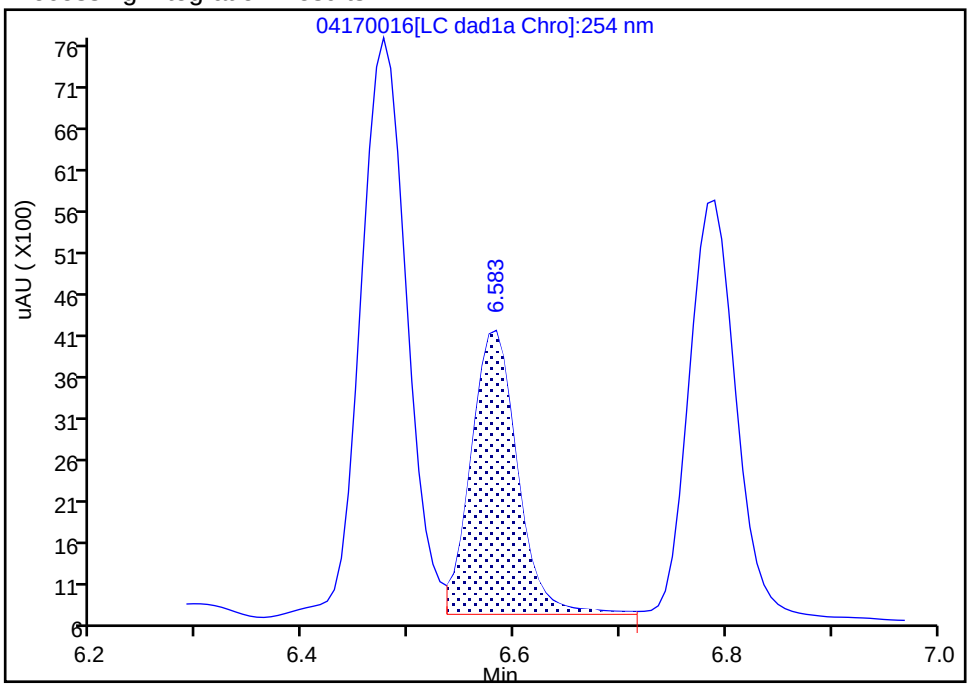
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170016.d				
Injection Date:	17-Apr-2024 22:32:42	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 4				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

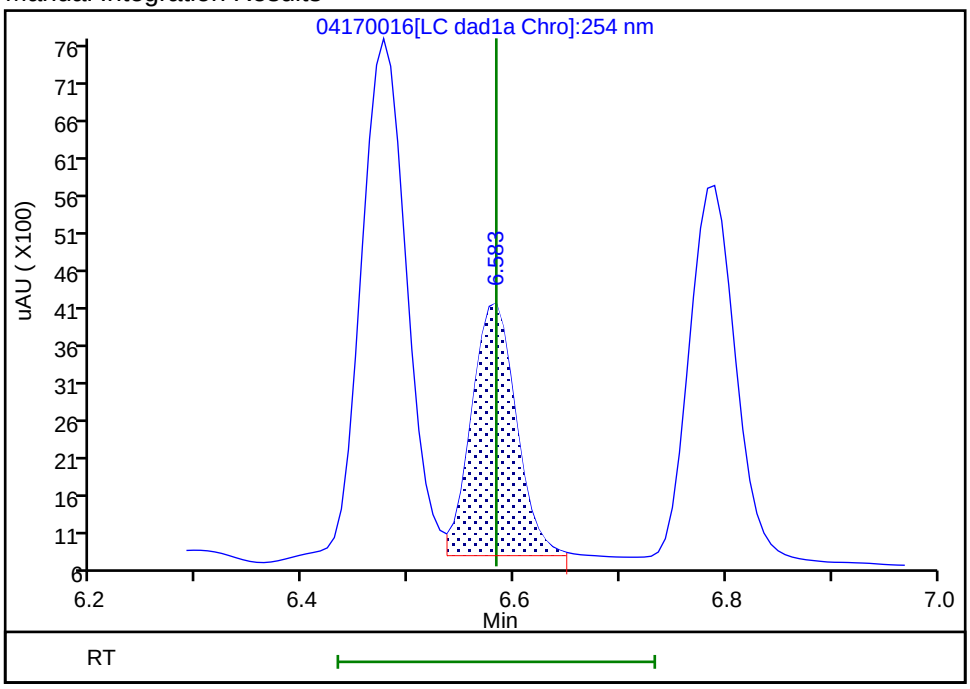
Processing Integration Results

RT: 6.58
Area: 10277
Amount: 0.100918
Amount Units: ug/mL



Manual Integration Results

RT: 6.58
Area: 9645
Amount: 0.100949
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:16:02 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

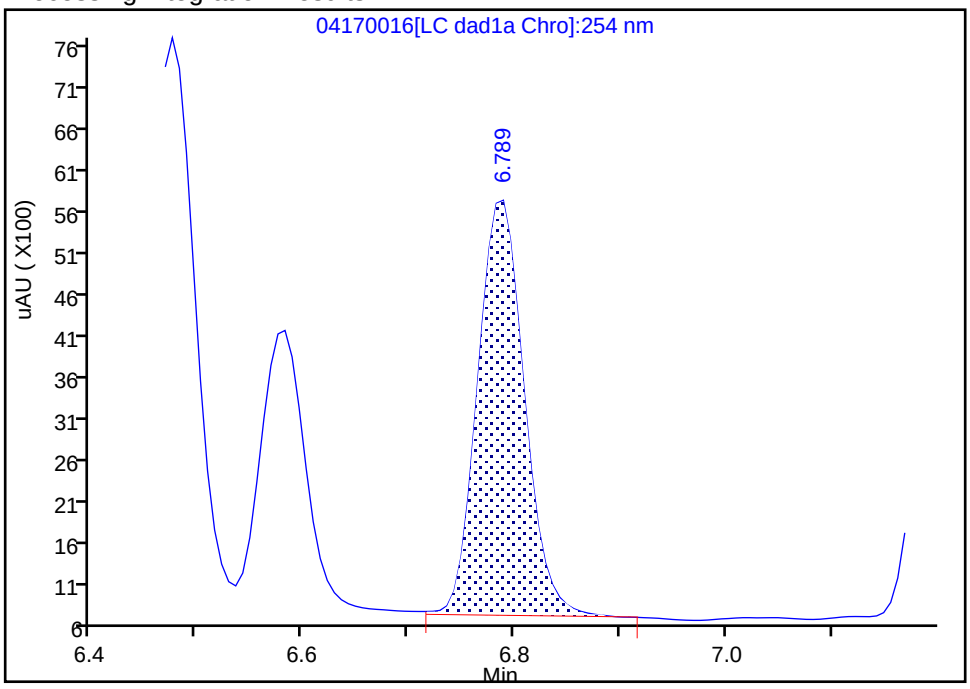
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170016.d				
Injection Date:	17-Apr-2024 22:32:42	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 4				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 DNX, CAS: 80251-29-2

Signal: 1

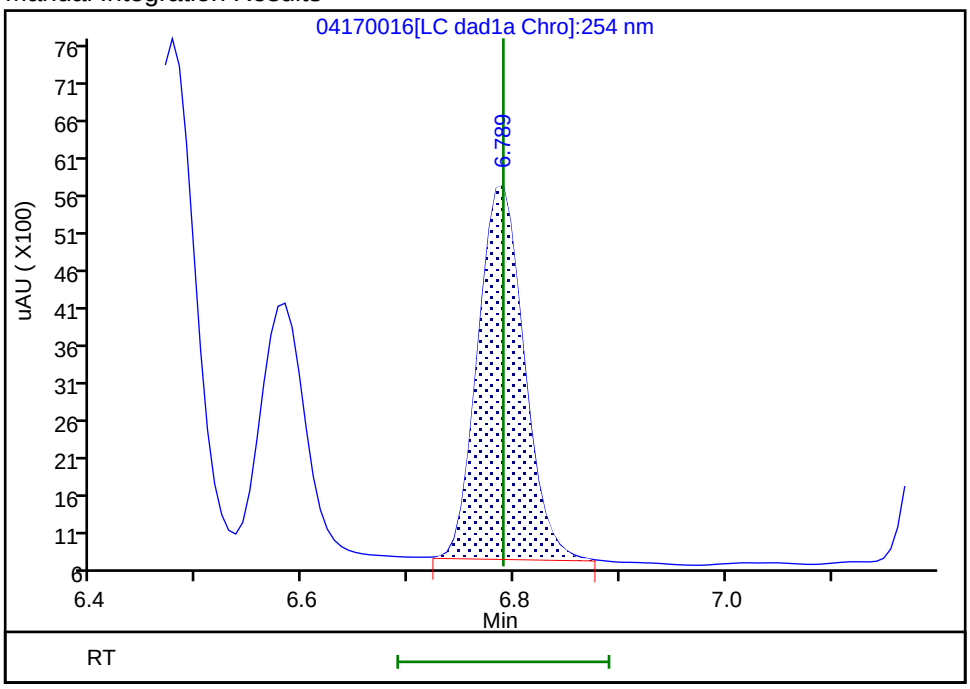
Processing Integration Results

RT: 6.79
Area: 15232
Amount: 0.100146
Amount Units: ug/mL



Manual Integration Results

RT: 6.79
Area: 14834
Amount: 0.100734
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:16:06 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

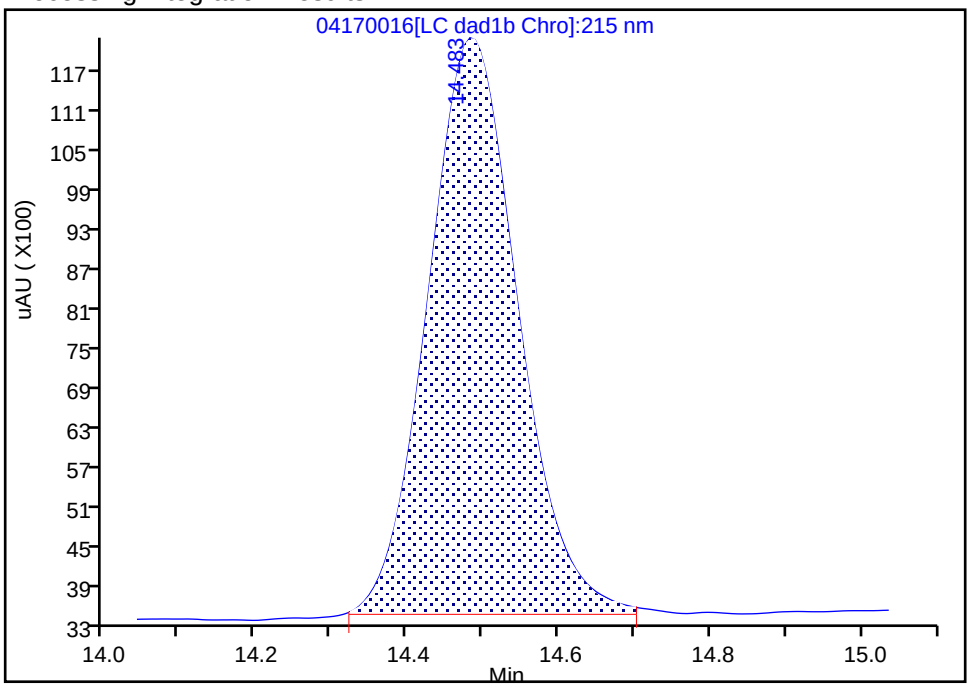
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170016.d
Injection Date: 17-Apr-2024 22:32:42 Instrument ID: CHHPLC_X3
Lims ID: IC INT/DMT 4
Client ID:
Operator ID: JZ/JG ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1C, 215 nm

25 PETN, CAS: 78-11-5

Signal: 1

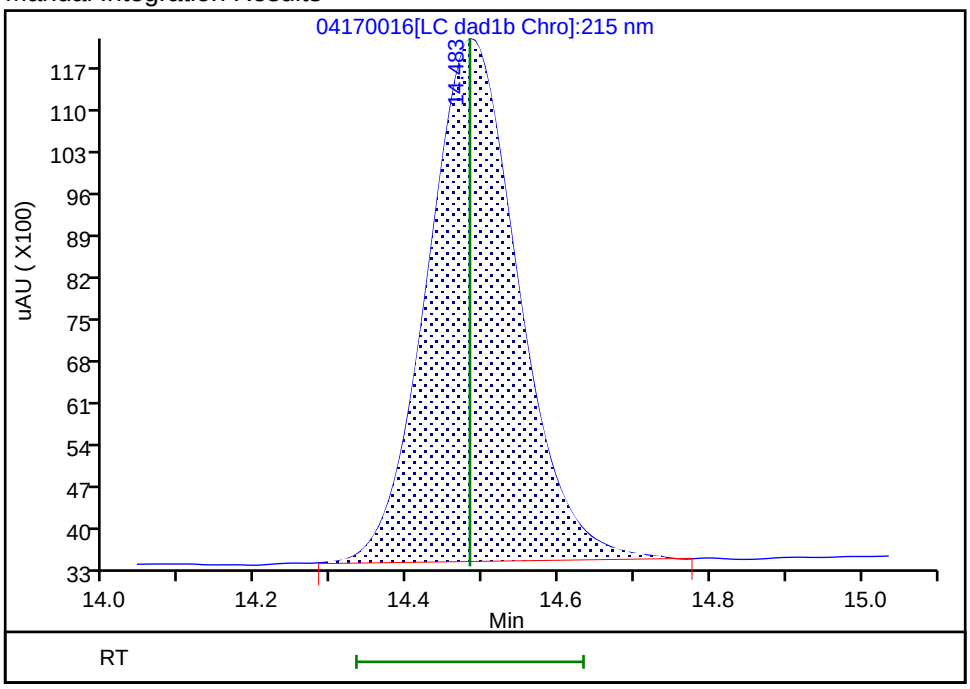
Processing Integration Results

RT: 14.48
Area: 72203
Amount: 1.039474
Amount Units: ug/mL



Manual Integration Results

RT: 14.48
Area: 72600
Amount: 1.009217
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:15:43 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170017.D
Lims ID: IC INT/DMT 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 17-Apr-2024 22:55:38 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT/DMT 3
Operator ID: JZ/JG Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub27

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-Apr-2024 11:59:28 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1675

First Level Reviewer: LV5D Date: 18-Apr-2024 11:16:33

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.478	6.476	0.002	9628	0.0502	0.0484	M
4 HMX	1	6.578	6.583	-0.005	4536	0.0500	0.0475	M
6 DNX	1	6.784	6.789	-0.005	7258	0.0501	0.0493	M
7 MNX	1	7.204	7.203	0.001	7887	0.0585	0.0577	
8 RDX	1	7.584	7.583	0.001	5612	0.0500	0.0507	
9 2,4,6-Trinitrophenol	1	7.818	7.816	0.002	3847	0.0500	0.0485	
$ 10 1,2-Dinitrobenzene	1	8.518	8.516	0.002	6521	0.0500	0.0488	
11 1,3,5-Trinitrobenzene	1	8.658	8.656	0.002	11258	0.0500	0.0505	
12 1,3-Dinitrobenzene	1	9.277	9.276	0.001	15023	0.0500	0.0502	
13 Nitrobenzene	1	9.631	9.636	-0.005	9759	0.0500	0.0497	
14 3,5-Dinitroaniline	1	9.871	9.876	-0.005	10781	0.0500	0.0499	
15 Tetryl	1	9.957	9.963	-0.006	9010	0.0500	0.0496	
16 Nitroglycerin	2	10.424	10.429	-0.005	35657	0.5000	0.5365	
17 2,4,6-Trinitrotoluene	1	10.864	10.869	-0.005	10669	0.0500	0.0496	
18 4-Amino-2,6-dinitrotoluene	1	11.044	11.049	-0.005	7533	0.0500	0.0502	
19 2-Amino-4,6-dinitrotoluene	1	11.304	11.309	-0.005	9923	0.0500	0.0497	
20 2,6-Dinitrotoluene	1	11.451	11.449	0.002	7267	0.0500	0.0495	
21 2,4-Dinitrotoluene	1	11.624	11.629	-0.005	14425	0.0500	0.0494	
22 o-Nitrotoluene	1	12.424	12.423	0.001	6526	0.0500	0.0505	
23 p-Nitrotoluene	1	12.844	12.843	0.001	5631	0.0500	0.0499	
24 m-Nitrotoluene	1	13.404	13.403	0.001	7074	0.0500	0.0491	
25 PETN	2	14.491	14.483	0.008	35216	0.5000	0.4895	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00080	Amount Added:	5.00	Units: uL
8330 DMT_00016	Amount Added:	2.50	Units: uL

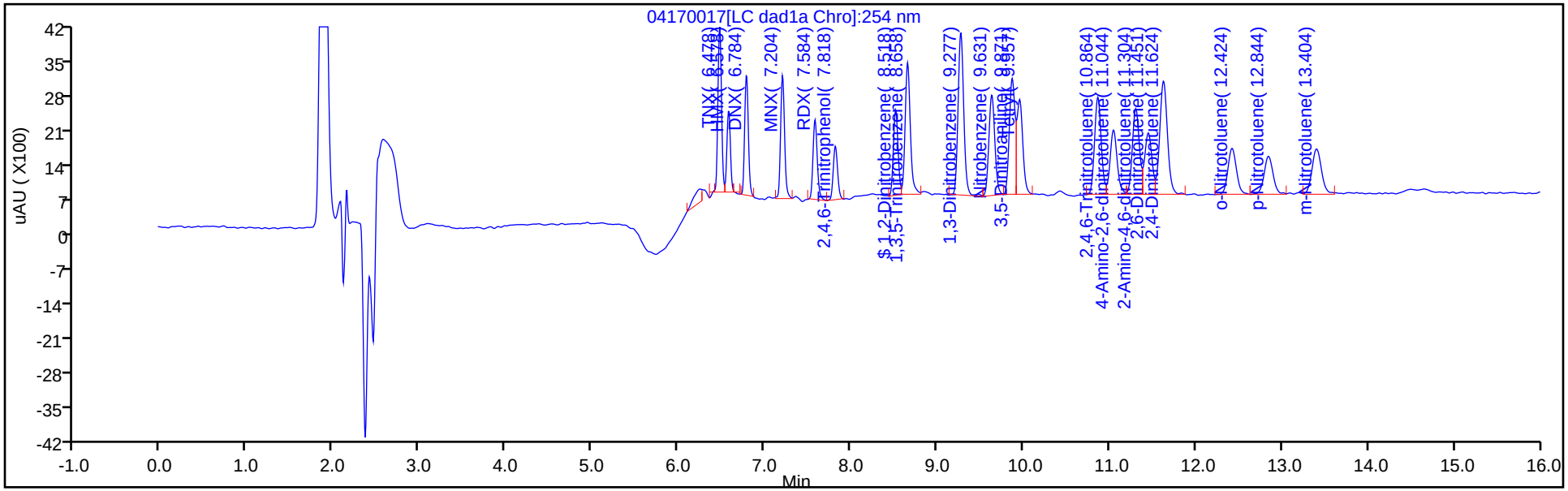
Report Date: 18-Apr-2024 11:59:28 Chrom Revision: 2.3 09-Apr-2024 17:43:44

Eurofins Denver

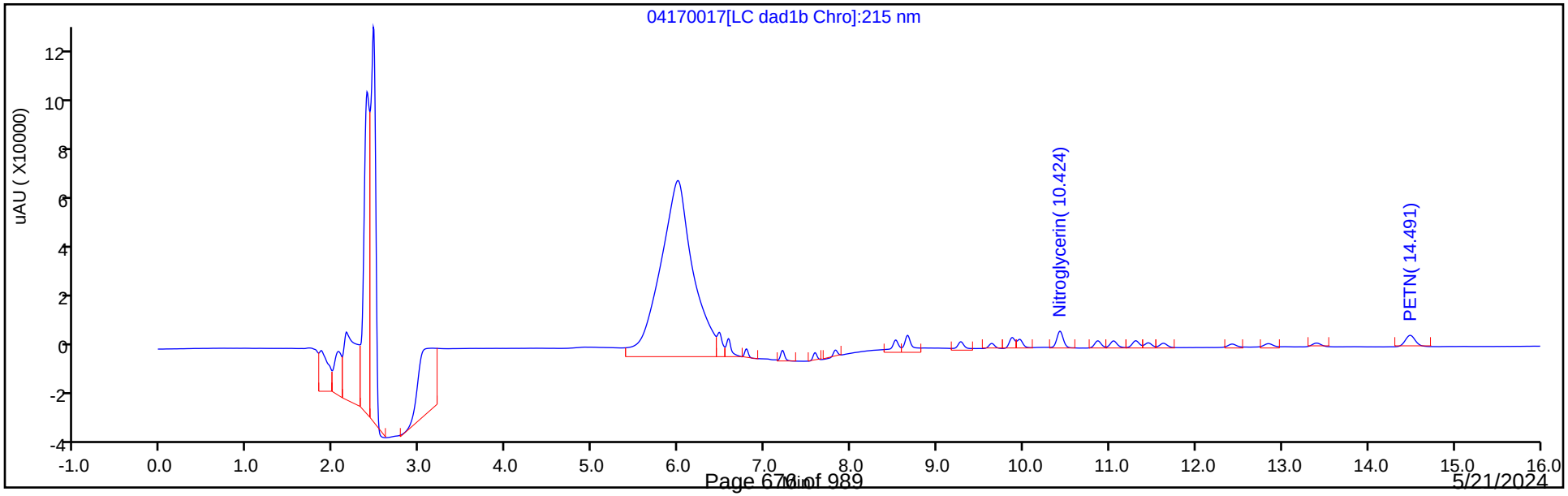
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170017.d

Injection Date:	17-Apr-2024 22:55:38	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	IC INT/DMT 3			Worklist Smp#:	17
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

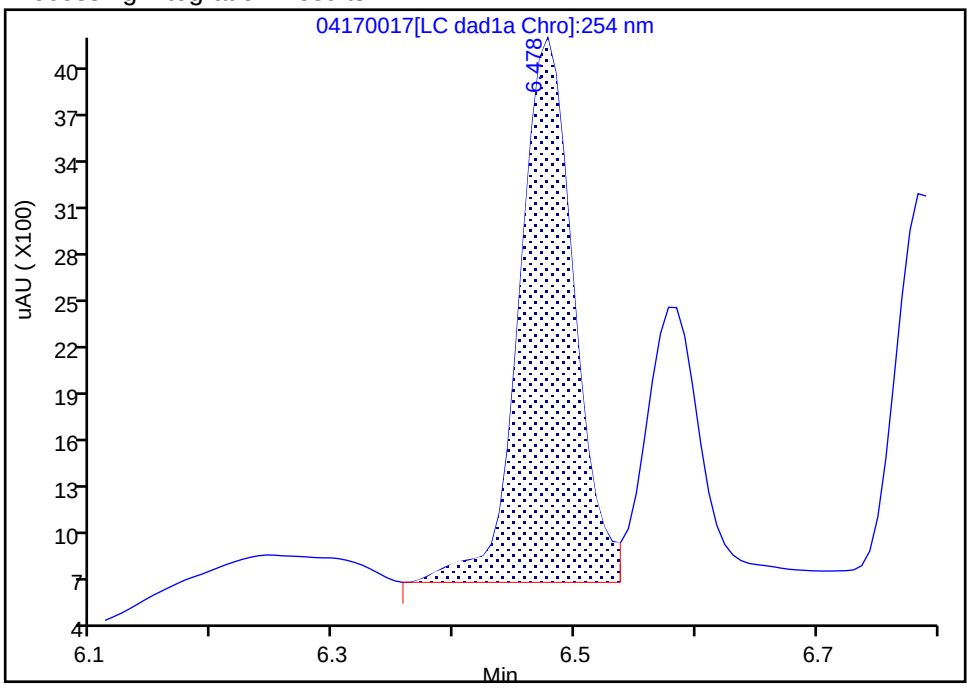
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170017.d				
Injection Date:	17-Apr-2024 22:55:38	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 3				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 TNX, CAS: 13980-04-6

Signal: 1

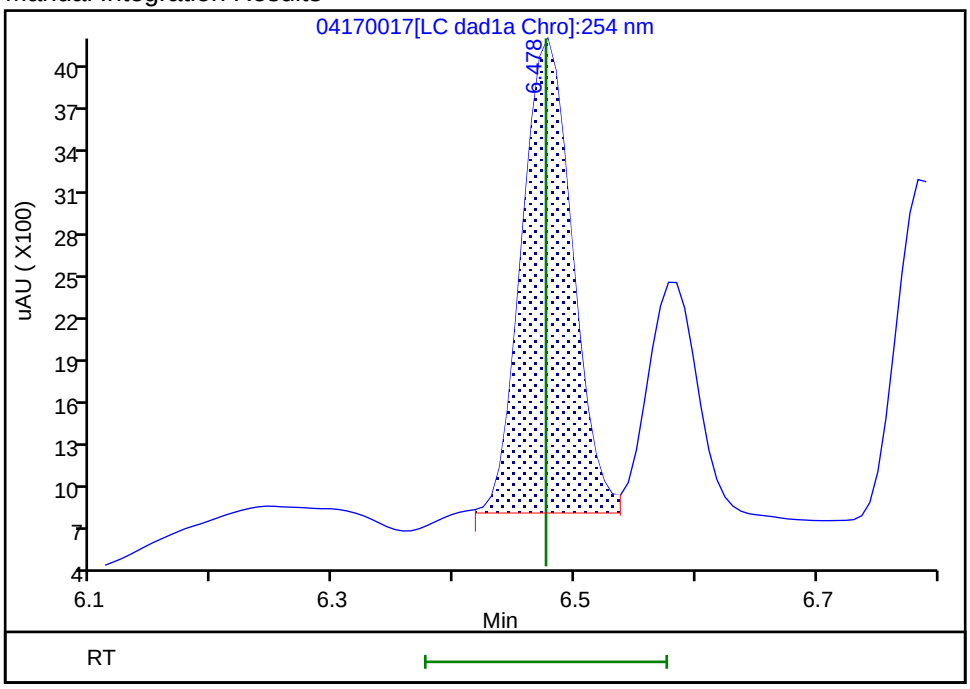
Processing Integration Results

RT: 6.48
Area: 10871
Amount: 0.053223
Amount Units: ug/mL



Manual Integration Results

RT: 6.48
Area: 9628
Amount: 0.048384
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:16:21 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

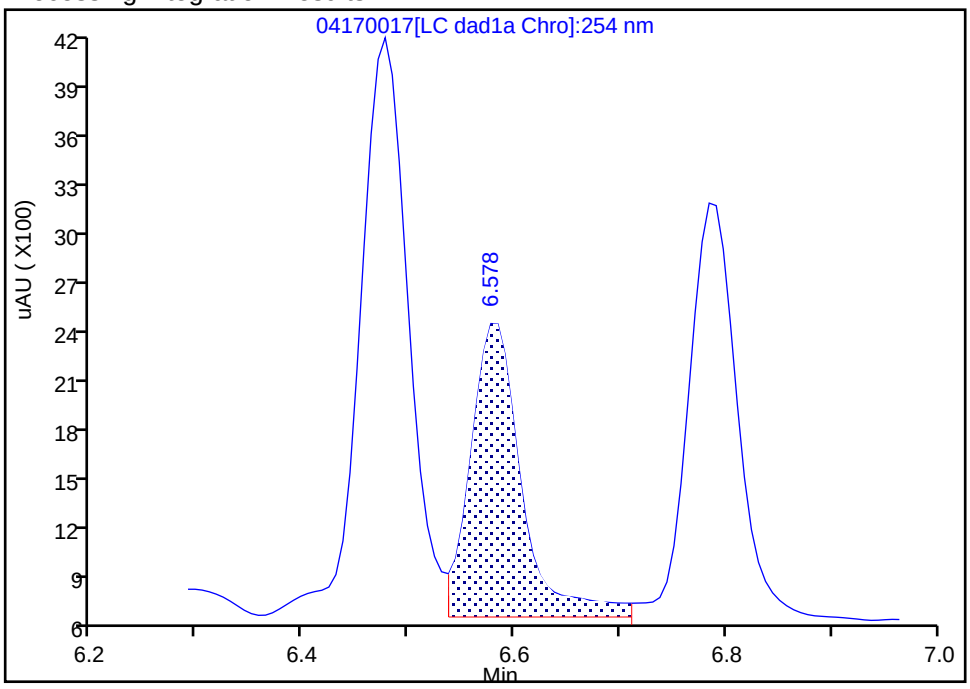
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170017.d
Injection Date: 17-Apr-2024 22:55:38 Instrument ID: CHHPLC_X3
Lims ID: IC INT/DMT 3
Client ID:
Operator ID: JZ/JG ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

4 HMX, CAS: 2691-41-0

Signal: 1

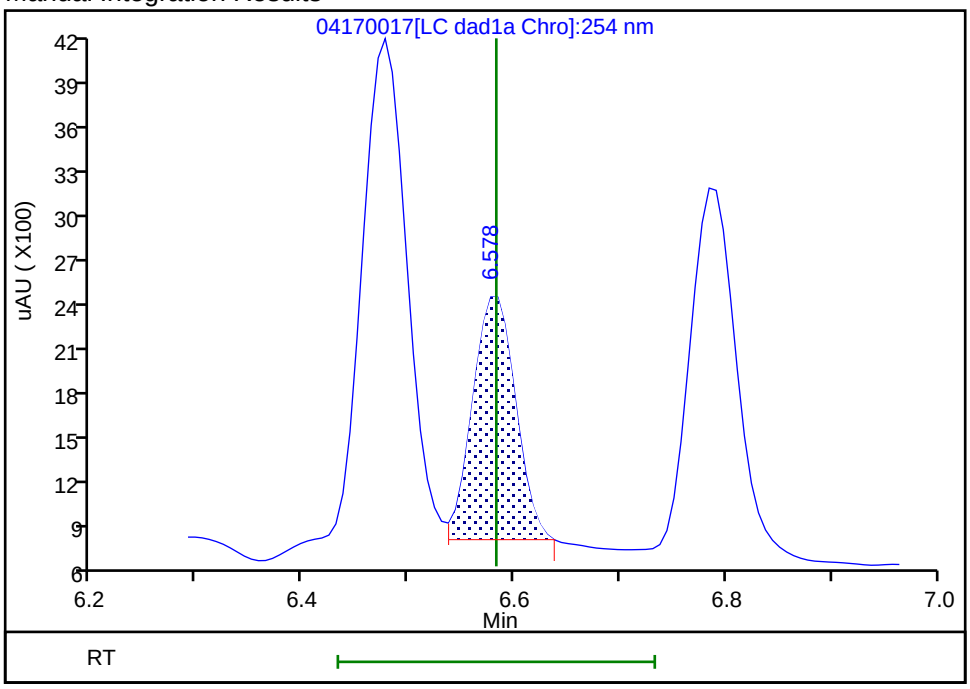
Processing Integration Results

RT: 6.58
Area: 5791
Amount: 0.057261
Amount Units: ug/mL



Manual Integration Results

RT: 6.58
Area: 4536
Amount: 0.047476
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:16:22 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

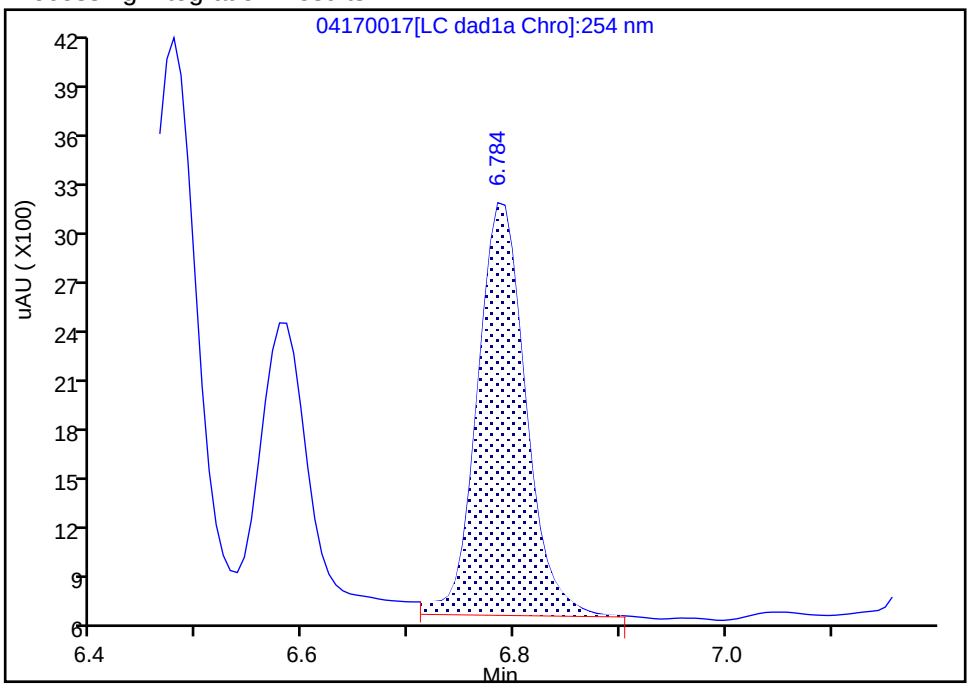
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170017.d				
Injection Date:	17-Apr-2024 22:55:38	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 3				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 DNX, CAS: 80251-29-2

Signal: 1

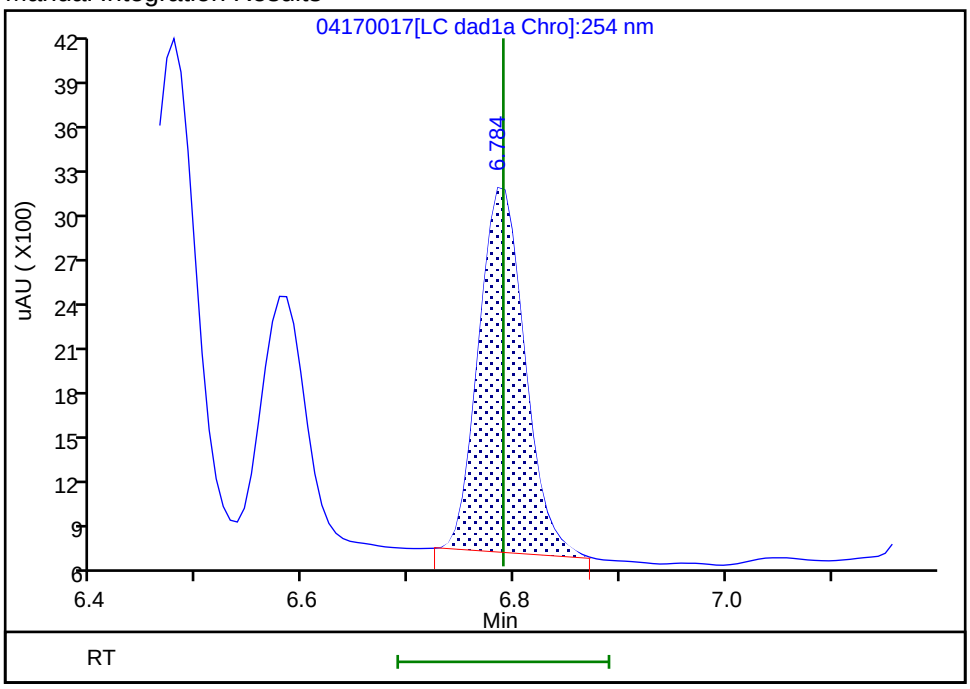
Processing Integration Results

RT: 6.78
Area: 7818
Amount: 0.051551
Amount Units: ug/mL



Manual Integration Results

RT: 6.78
Area: 7258
Amount: 0.049287
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:16:26 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

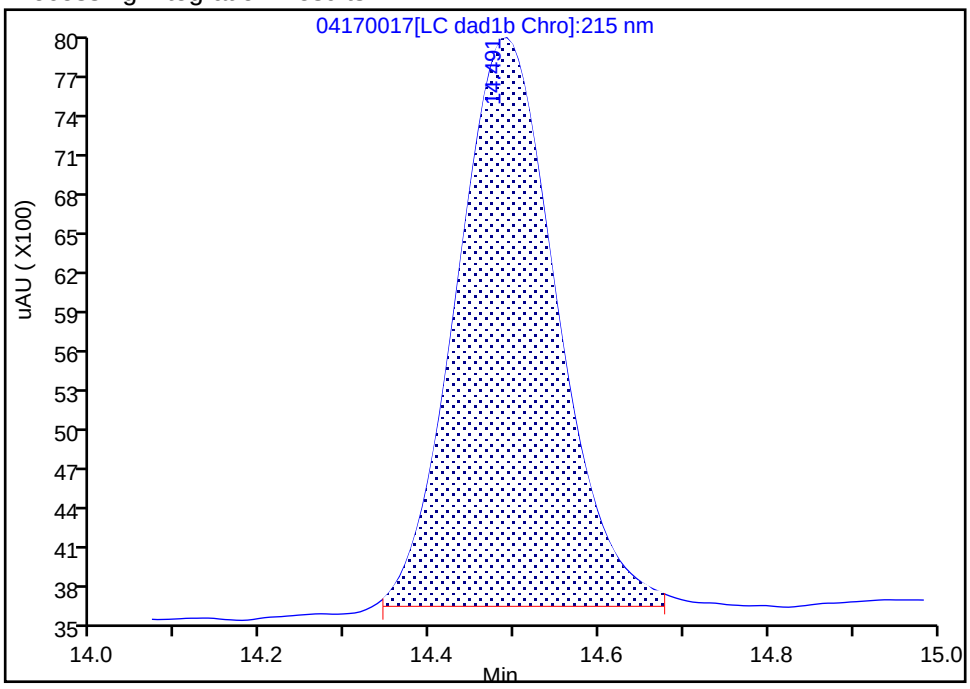
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170017.d
Injection Date: 17-Apr-2024 22:55:38 Instrument ID: CHHPLC_X3
Lims ID: IC INT/DMT 3
Client ID:
Operator ID: JZ/JG ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1C, 215 nm

25 PETN, CAS: 78-11-5

Signal: 1

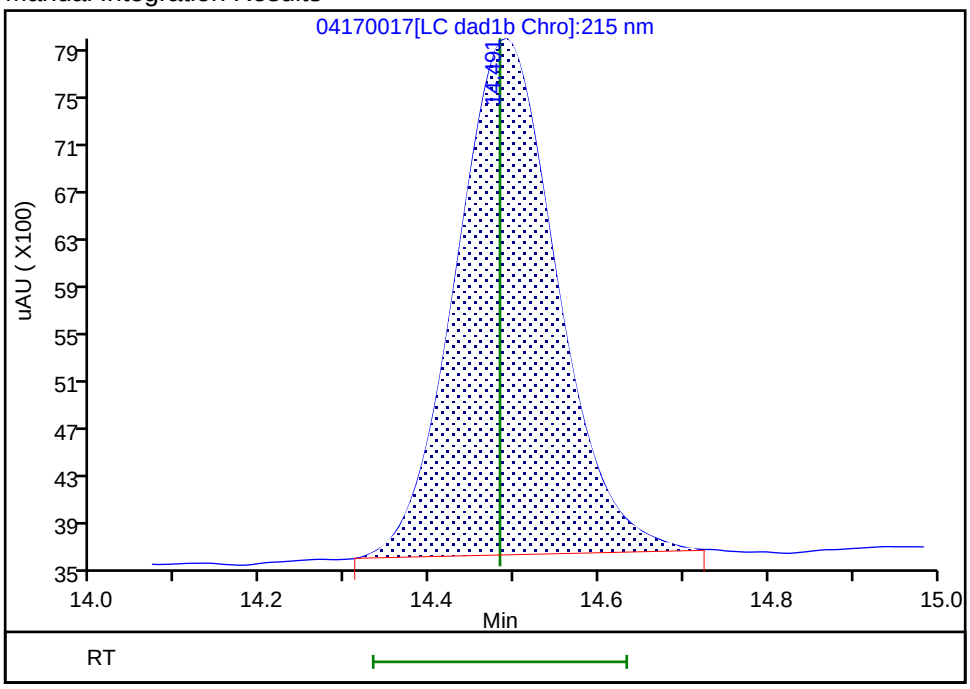
Processing Integration Results

RT: 14.49
Area: 34790
Amount: 0.500498
Amount Units: ug/mL



Manual Integration Results

RT: 14.49
Area: 35216
Amount: 0.489540
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:16:31 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170018.D
Lims ID: IC INT/DMT 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 17-Apr-2024 23:18:32 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT/DMT 2
Operator ID: JZ/JG Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub27

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-Apr-2024 11:59:29 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1675

First Level Reviewer: LV5D Date: 18-Apr-2024 11:17:35

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.475	6.476	-0.001	4023	0.0201	0.0202	
4 HMX	1	6.582	6.583	-0.001	2017	0.0200	0.0211	
6 DNX	1	6.788	6.789	-0.001	2843	0.0200	0.0193	M
7 MNX	1	7.202	7.203	-0.001	2991	0.0234	0.0219	
8 RDX	1	7.582	7.583	-0.001	2334	0.0200	0.0211	
9 2,4,6-Trinitrophenol	1	7.822	7.816	0.006	1524	0.0200	0.0192	
$ 10 1,2-Dinitrobenzene	1	8.522	8.516	0.006	2603	0.0200	0.0191	M
11 1,3,5-Trinitrobenzene	1	8.655	8.656	-0.001	4349	0.0200	0.0195	M
12 1,3-Dinitrobenzene	1	9.275	9.276	-0.001	5678	0.0200	0.0190	
13 Nitrobenzene	1	9.635	9.636	-0.001	3932	0.0200	0.0200	
14 3,5-Dinitroaniline	1	9.868	9.876	-0.008	4171	0.0200	0.0199	M
15 Tetryl	1	9.955	9.963	-0.008	3374	0.0200	0.0186	Ma
16 Nitroglycerin	2	10.422	10.429	-0.007	11963	0.2000	0.1800	M
17 2,4,6-Trinitrotoluene	1	10.862	10.869	-0.007	4400	0.0200	0.0204	
18 4-Amino-2,6-dinitrotoluene	1	11.042	11.049	-0.007	3261	0.0200	0.0217	
19 2-Amino-4,6-dinitrotoluene	1	11.302	11.309	-0.007	3997	0.0200	0.0200	
20 2,6-Dinitrotoluene	1	11.448	11.449	-0.001	2880	0.0200	0.0196	
21 2,4-Dinitrotoluene	1	11.622	11.629	-0.007	5793	0.0200	0.0198	
22 o-Nitrotoluene	1	12.415	12.423	-0.008	2777	0.0200	0.0215	
23 p-Nitrotoluene	1	12.842	12.843	-0.001	2413	0.0200	0.0214	
24 m-Nitrotoluene	1	13.395	13.403	-0.008	3066	0.0200	0.0213	
25 PETN	2	14.482	14.483	-0.001	14174	0.2000	0.1970	M

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

8330IntermStk_00080	Amount Added:	2.00	Units: uL
8330 DMT_00016	Amount Added:	1.00	Units: uL

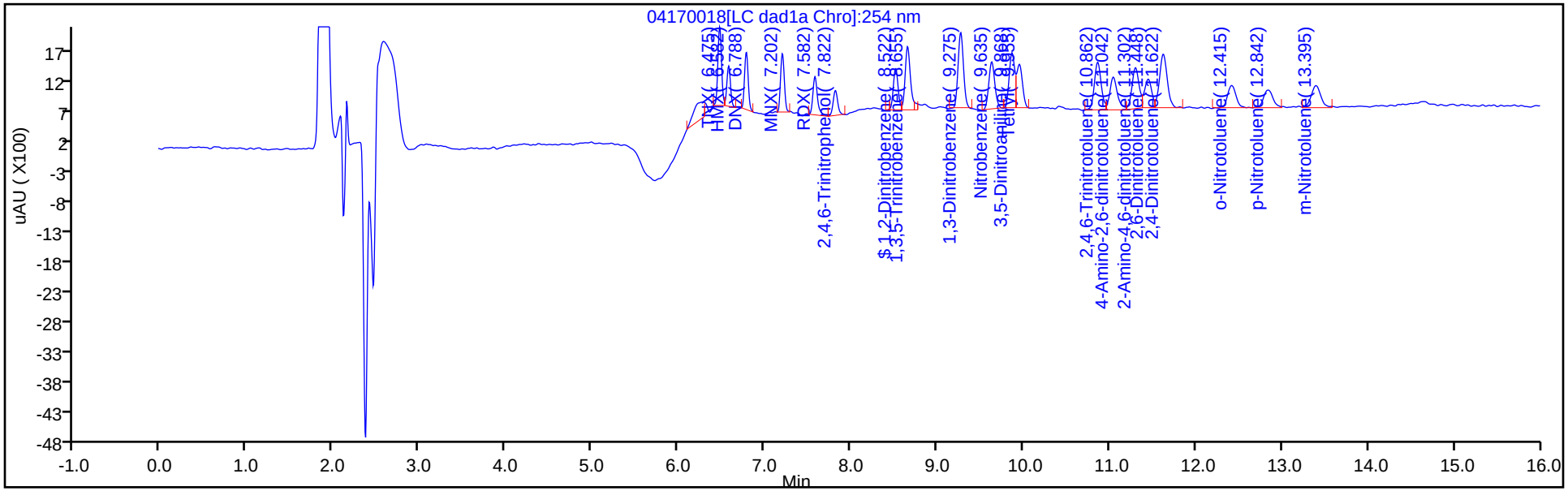
Report Date: 18-Apr-2024 11:59:29 Chrom Revision: 2.3 09-Apr-2024 17:43:44

Eurofins Denver

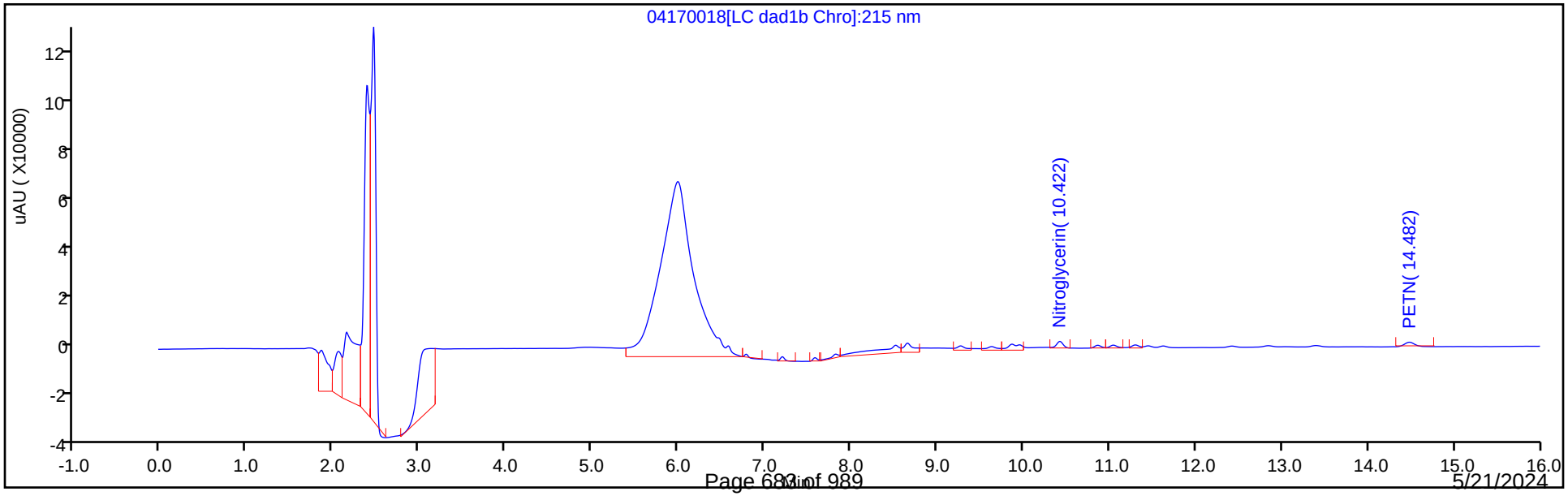
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170018.d

Injection Date:	17-Apr-2024 23:18:32	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	IC INT/DMT 2			Worklist Smp#:	18
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Eurofins Denver

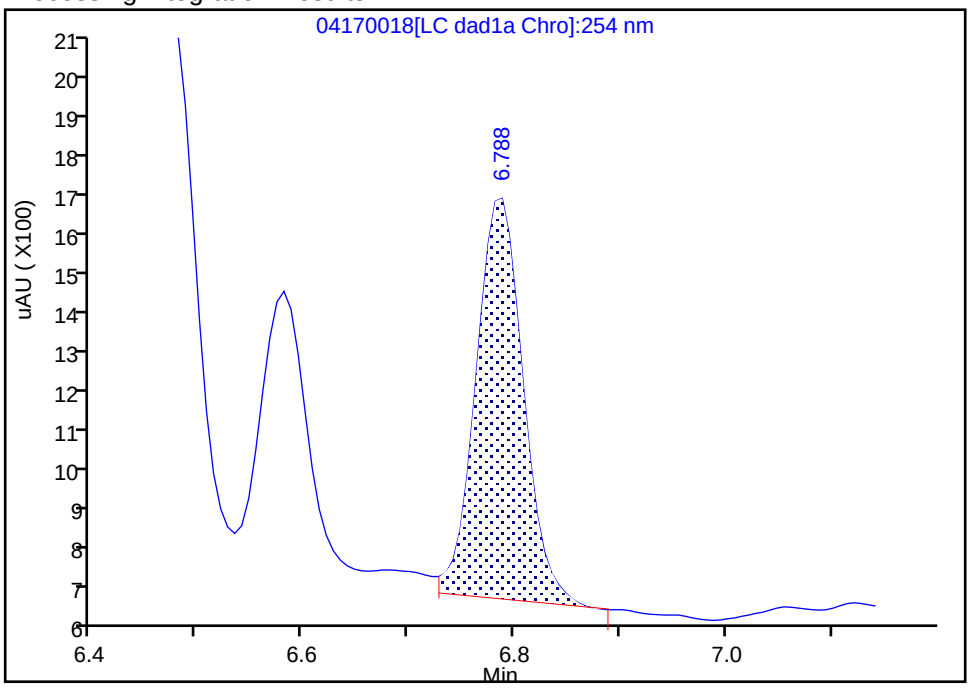
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170018.d				
Injection Date:	17-Apr-2024 23:18:32	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 2				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 DNX, CAS: 80251-29-2

Signal: 1

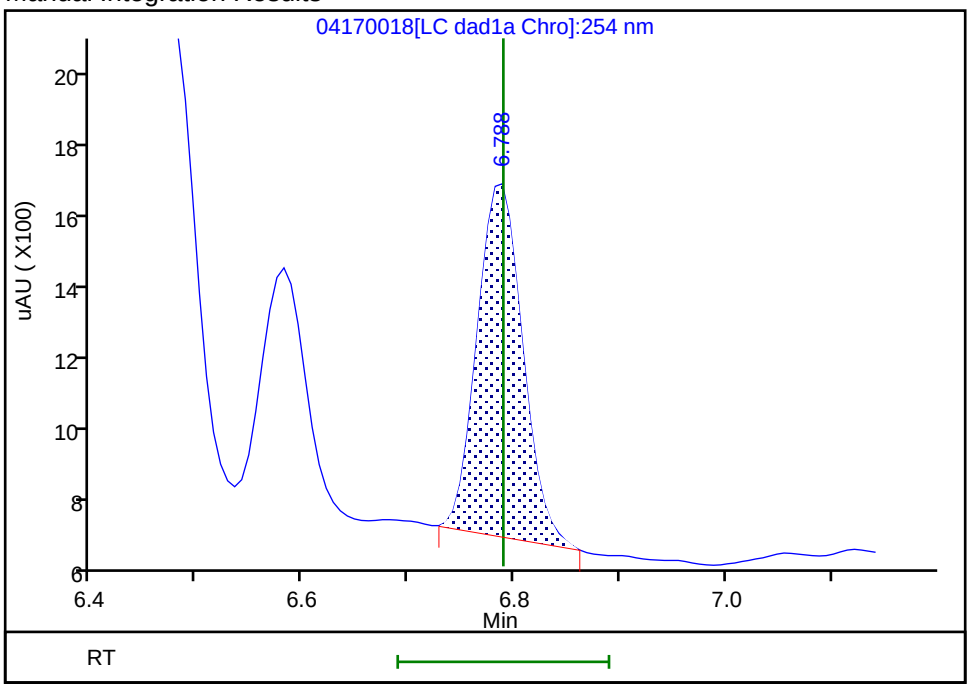
Processing Integration Results

RT: 6.79
Area: 3044
Amount: 0.020237
Amount Units: ug/mL



Manual Integration Results

RT: 6.79
Area: 2843
Amount: 0.019306
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:17:01 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

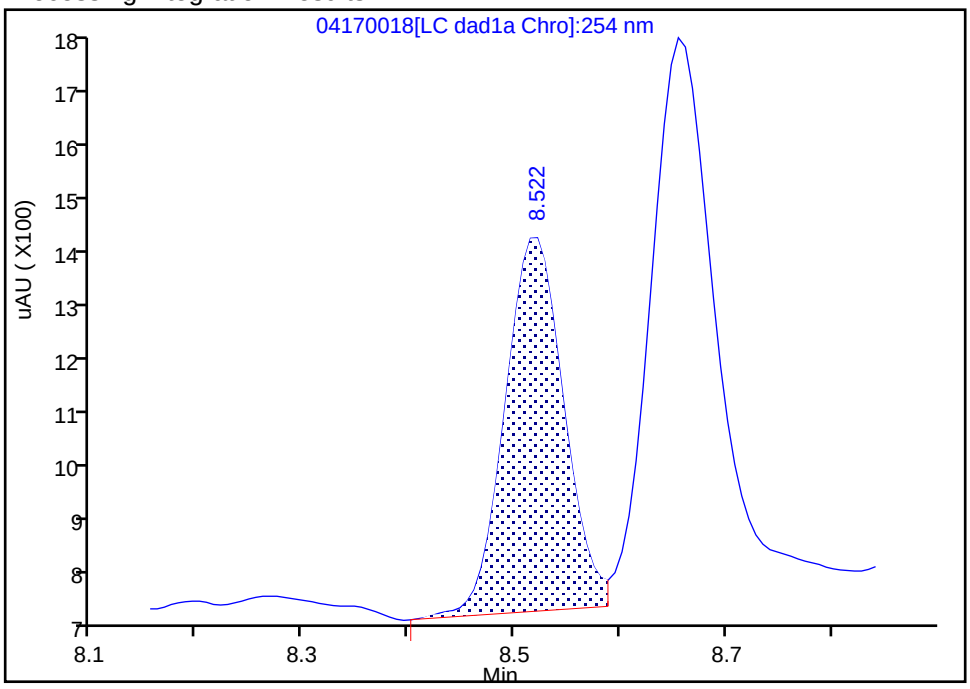
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170018.d
Injection Date: 17-Apr-2024 23:18:32 Instrument ID: CHHPLC_X3
Lims ID: IC INT/DMT 2
Client ID:
Operator ID: JZ/JG ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

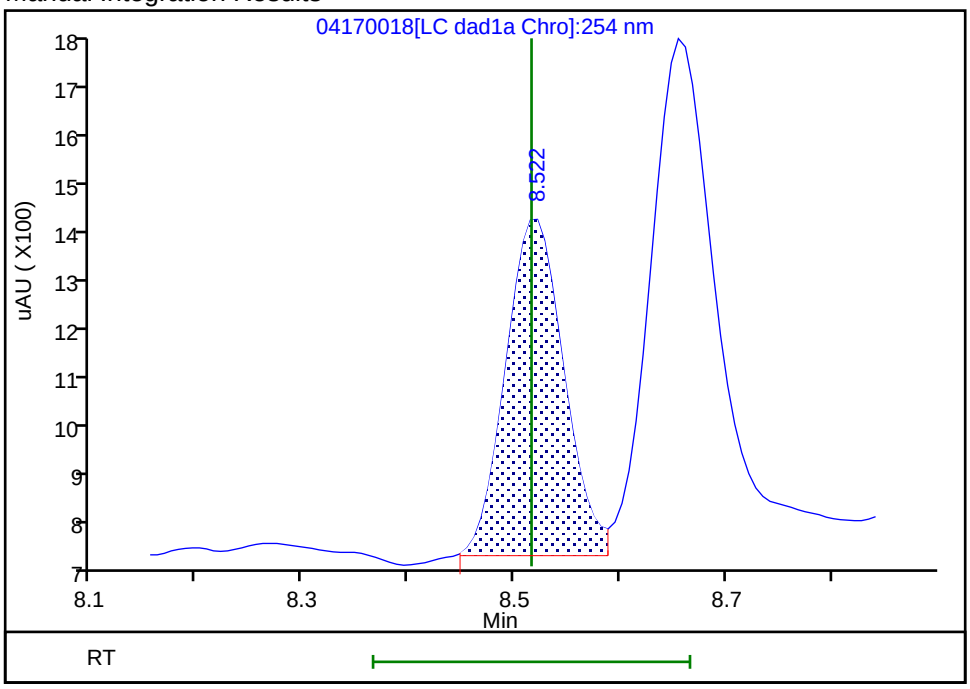
Processing Integration Results

RT: 8.52
Area: 2640
Amount: 0.019730
Amount Units: ug/mL



Manual Integration Results

RT: 8.52
Area: 2603
Amount: 0.019063
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:19:58 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

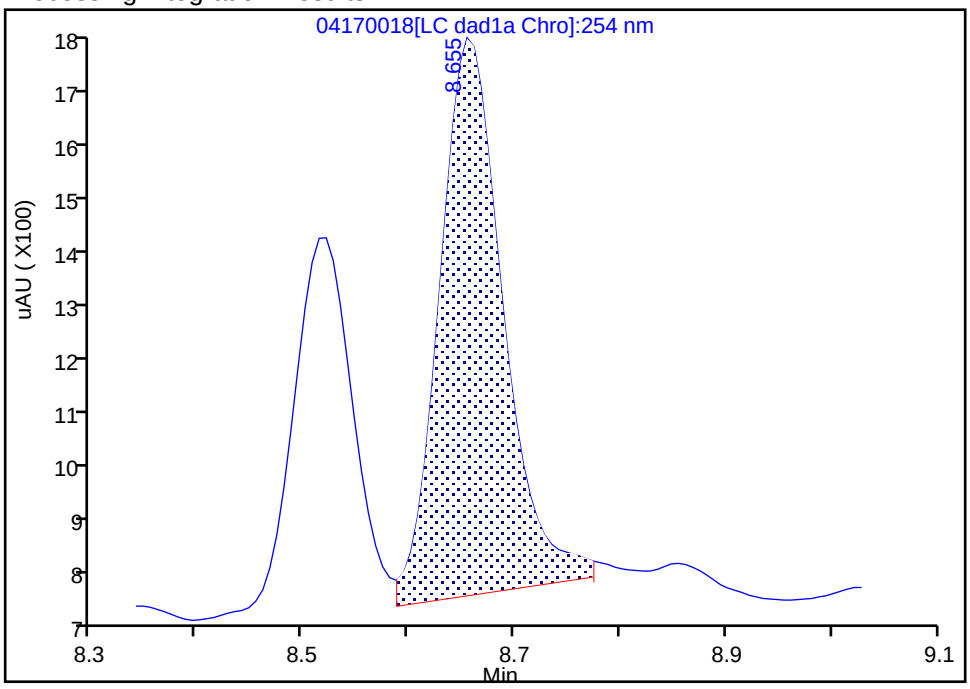
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170018.d				
Injection Date:	17-Apr-2024 23:18:32	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 2				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

11 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

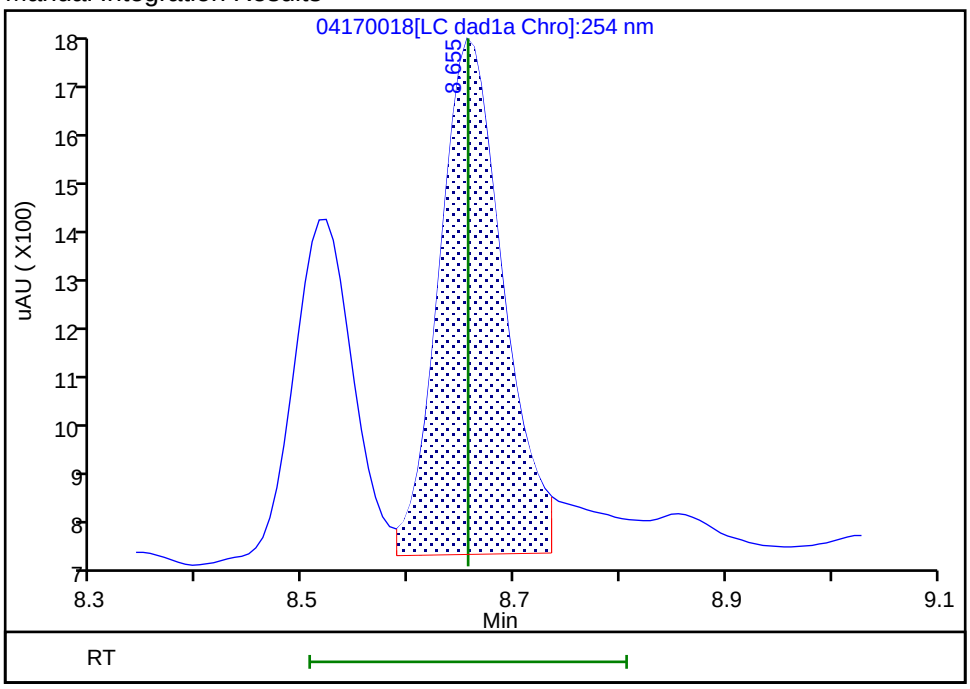
Processing Integration Results

RT: 8.66
Area: 4251
Amount: 0.019122
Amount Units: ug/mL



Manual Integration Results

RT: 8.66
Area: 4349
Amount: 0.019515
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:19:57 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

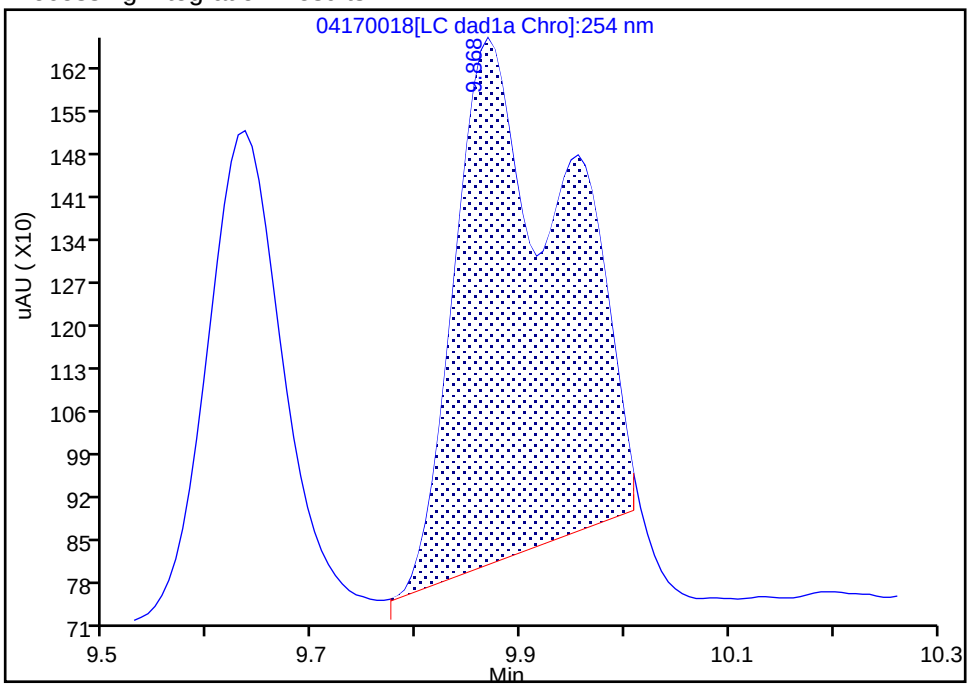
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170018.d
Injection Date: 17-Apr-2024 23:18:32 Instrument ID: CHHPLC_X3
Lims ID: IC INT/DMT 2
Client ID:
Operator ID: JZ/JG ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

14 3,5-Dinitroaniline, CAS: 618-87-1

Signal: 1

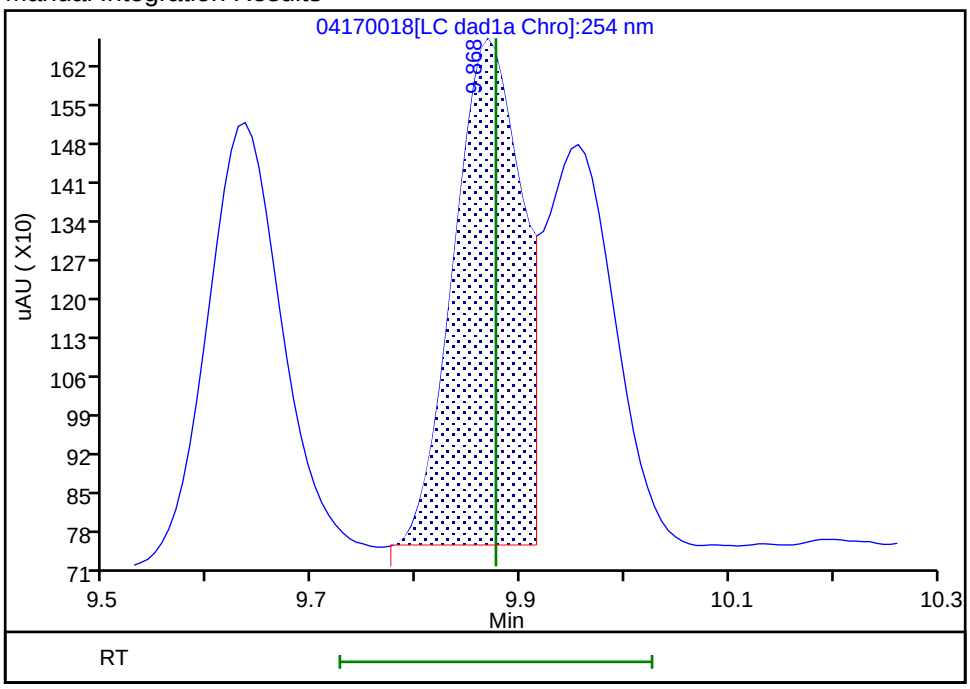
Processing Integration Results

RT: 9.87
Area: 6350
Amount: 0.025070
Amount Units: ug/mL



Manual Integration Results

RT: 9.87
Area: 4171
Amount: 0.019946
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:17:15 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

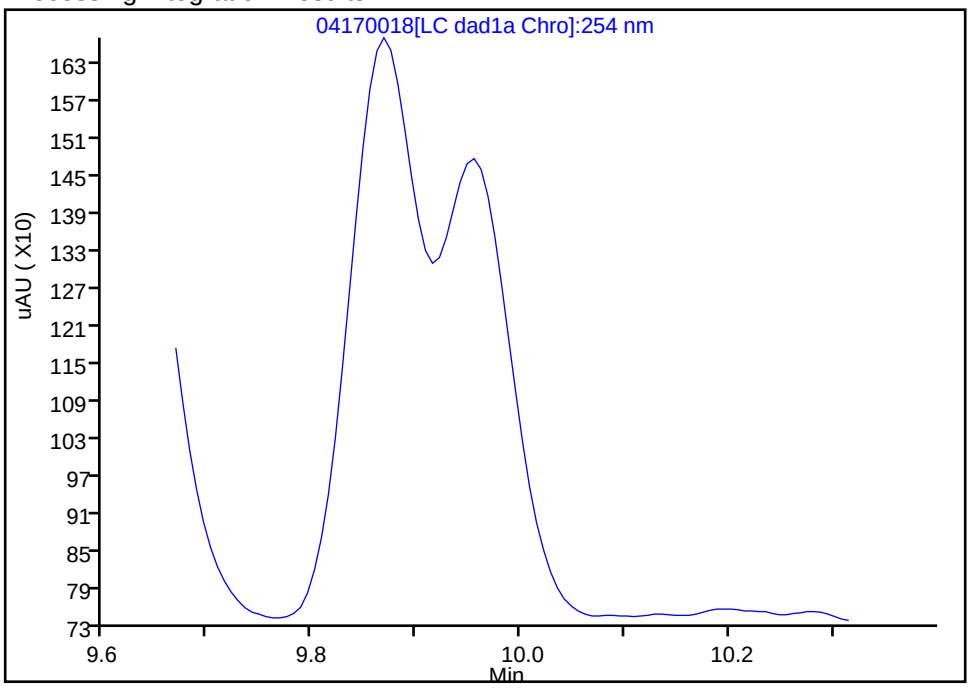
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170018.d				
Injection Date:	17-Apr-2024 23:18:32	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 2				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

15 Tetryl, CAS: 479-45-8

Signal: 1

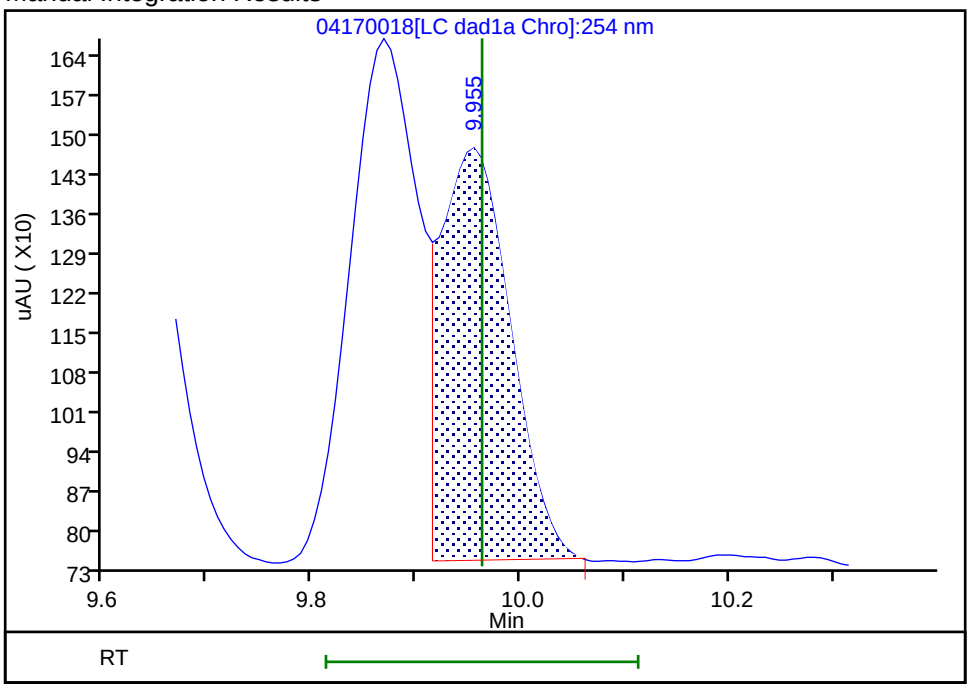
Not Detected
Expected RT: 9.96

Processing Integration Results



Manual Integration Results

RT: 9.95
Area: 3374
Amount: 0.018581
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:17:18 -06:00:00 (UTC)
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

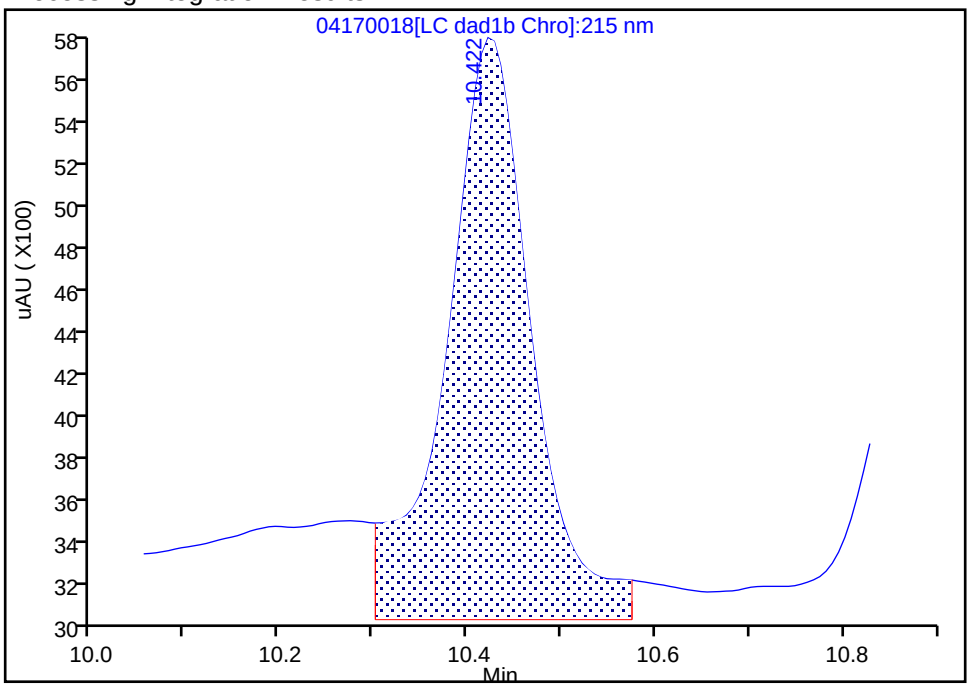
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170018.d
Injection Date: 17-Apr-2024 23:18:32 Instrument ID: CHHPLC_X3
Lims ID: IC INT/DMT 2
Client ID:
Operator ID: JZ/JG ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1C, 215 nm

16 Nitroglycerin, CAS: 55-63-0

Signal: 1

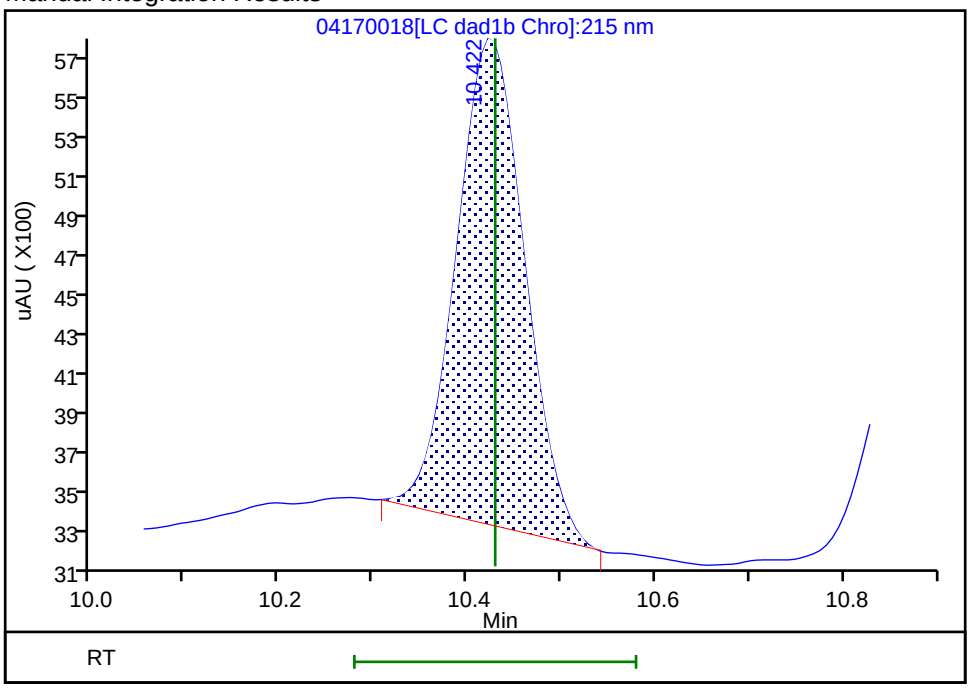
Processing Integration Results

RT: 10.42
Area: 17067
Amount: 0.169937
Amount Units: ug/mL



Manual Integration Results

RT: 10.42
Area: 11963
Amount: 0.179992
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:17:33 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

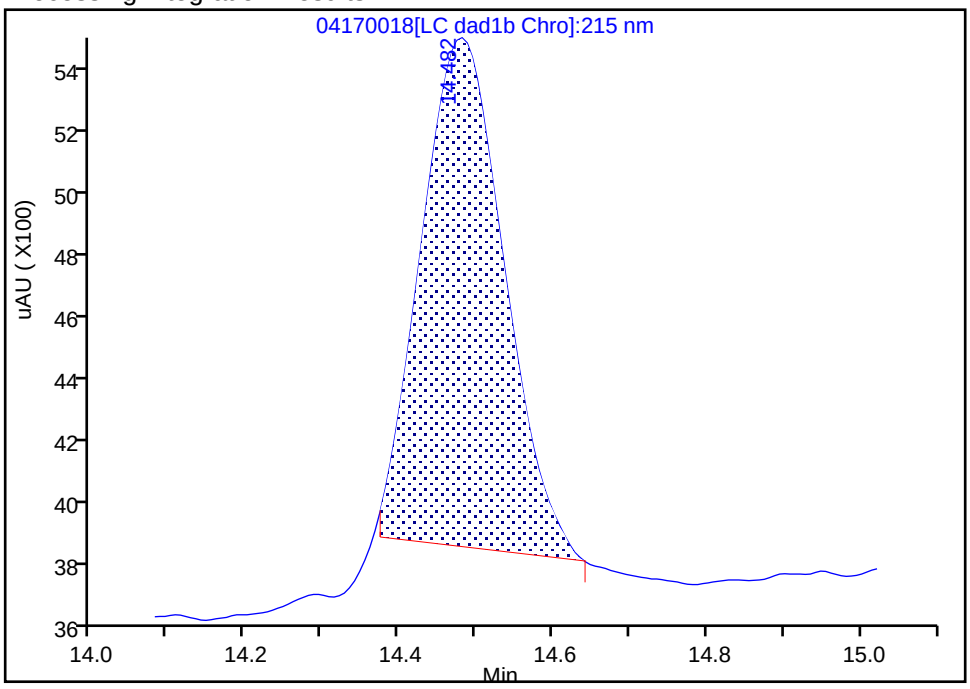
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170018.d				
Injection Date:	17-Apr-2024 23:18:32	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 2				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1C, 215 nm		

25 PETN, CAS: 78-11-5

Signal: 1

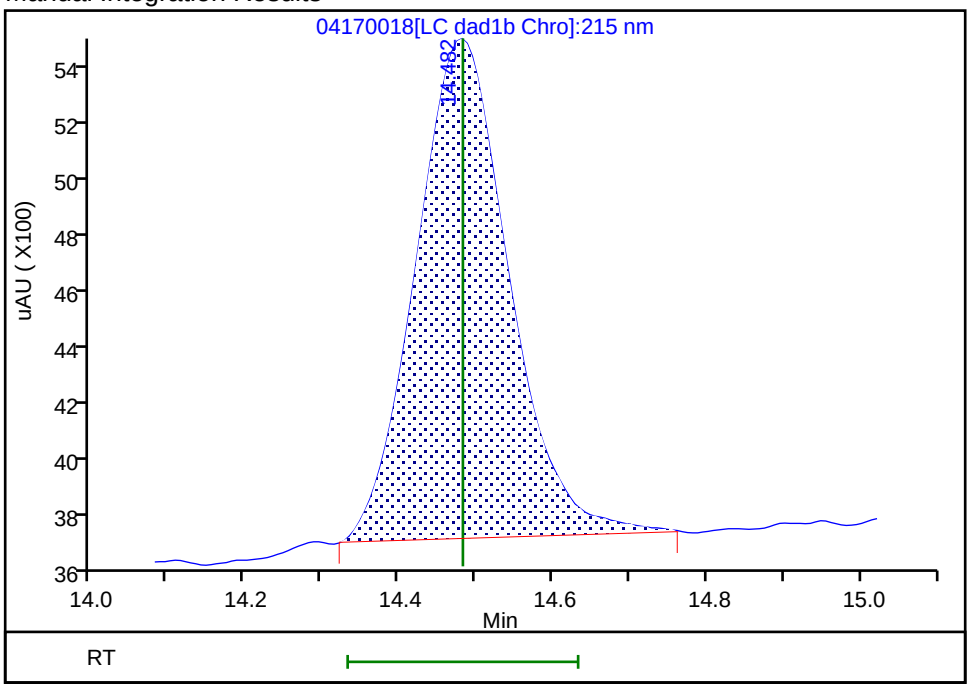
Processing Integration Results

RT: 14.48
Area: 11689
Amount: 0.167904
Amount Units: ug/mL



Manual Integration Results

RT: 14.48
Area: 14174
Amount: 0.197034
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:17:28 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170019.D
Lims ID: IC INT/DMT 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 17-Apr-2024 23:41:30 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT/DMT 1
Operator ID: JZ/JG Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub27

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-Apr-2024 11:59:31 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1675

First Level Reviewer: LV5D Date: 18-Apr-2024 11:19:45

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.480	6.476	0.004	2051	0.0100	0.0103	M
4 HMX	1	6.580	6.583	-0.003	919	0.0100	0.009619	M
6 DNX	1	6.786	6.789	-0.003	1516	0.0100	0.0103	M
7 MNX	1	7.206	7.203	0.003	1649	0.0117	0.0121	
8 RDX	1	7.580	7.583	-0.003	1187	0.0100	0.0107	M
9 2,4,6-Trinitrophenol	1	7.820	7.816	0.004	787	0.0100	0.0099	
$ 10 1,2-Dinitrobenzene	1	8.520	8.516	0.004	1445	0.0100	0.0103	M
11 1,3,5-Trinitrobenzene	1	8.660	8.656	0.004	2549	0.0100	0.0114	M
12 1,3-Dinitrobenzene	1	9.273	9.276	-0.003	3086	0.0100	0.0103	
13 Nitrobenzene	1	9.633	9.636	-0.003	1985	0.0100	0.0101	
14 3,5-Dinitroaniline	1	9.873	9.876	-0.003	1971	0.0100	0.0100	M
15 Tetryl	1	9.953	9.963	-0.010	1835	0.0100	0.0101	Ma
16 Nitroglycerin	2	10.426	10.429	-0.003	6048	0.1000	0.0910	M
17 2,4,6-Trinitrotoluene	1	10.866	10.869	-0.003	2081	0.0100	0.009670	
18 4-Amino-2,6-dinitrotoluene	1	11.046	11.049	-0.003	1406	0.0100	0.009377	
19 2-Amino-4,6-dinitrotoluene	1	11.306	11.309	-0.003	1951	0.0100	0.009764	
20 2,6-Dinitrotoluene	1	11.453	11.449	0.004	1557	0.0100	0.0106	
21 2,4-Dinitrotoluene	1	11.626	11.629	-0.003	2993	0.0100	0.0103	
22 o-Nitrotoluene	1	12.419	12.423	-0.004	1340	0.0100	0.0104	
23 p-Nitrotoluene	1	12.853	12.843	0.010	1249	0.0100	0.0111	
24 m-Nitrotoluene	1	13.399	13.403	-0.004	1713	0.0100	0.0119	
25 PETN	2	14.486	14.483	0.003	7807	0.1000	0.1085	Ma

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

8330IntermStk_00080	Amount Added:	1.00	Units: uL
8330 DMT_00016	Amount Added:	0.50	Units: uL

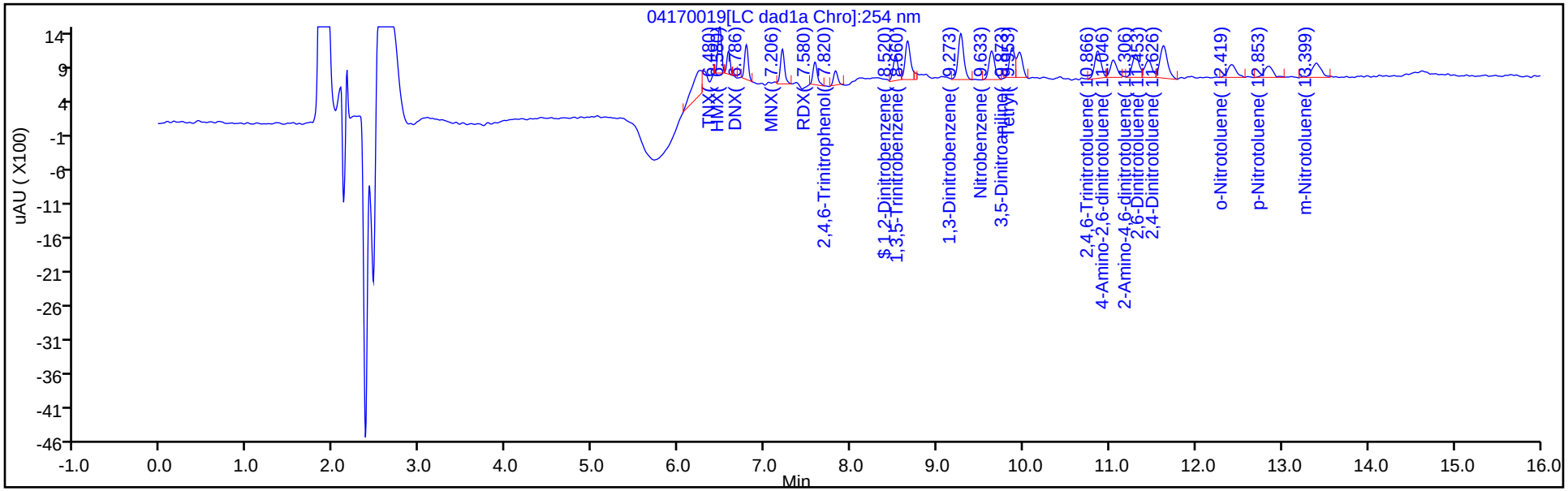
Report Date: 18-Apr-2024 11:59:31 Chrom Revision: 2.3 09-Apr-2024 17:43:44

Eurofins Denver

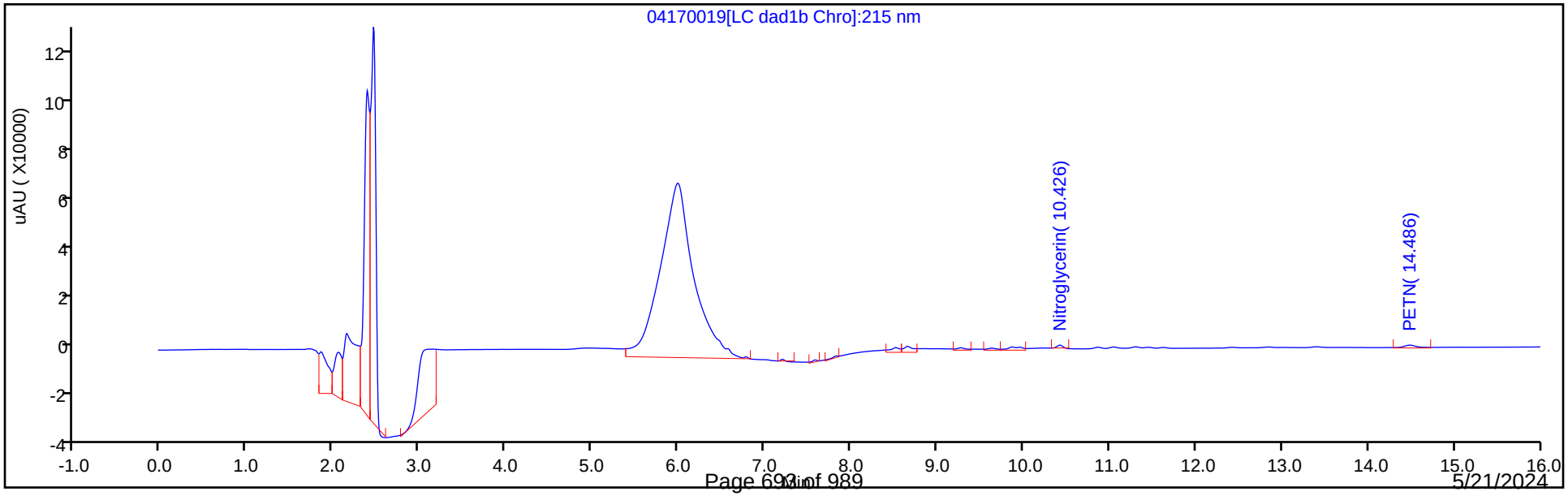
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170019.d

Injection Date:	17-Apr-2024 23:41:30	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	IC INT/DMT 1			Worklist Smp#:	19
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

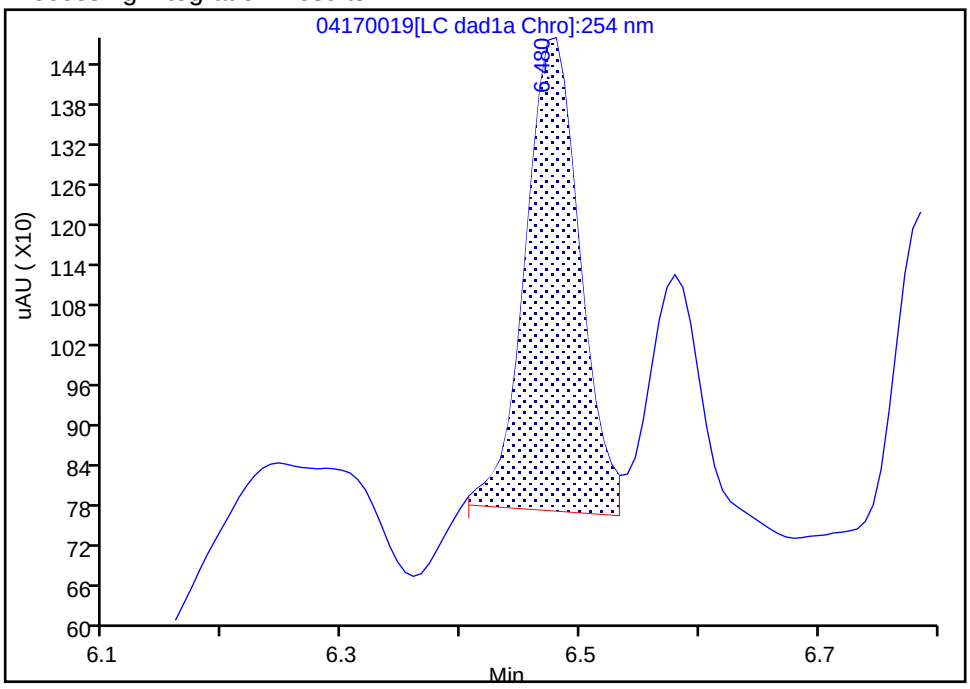
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170019.d				
Injection Date:	17-Apr-2024 23:41:30	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 1				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 TNX, CAS: 13980-04-6

Signal: 1

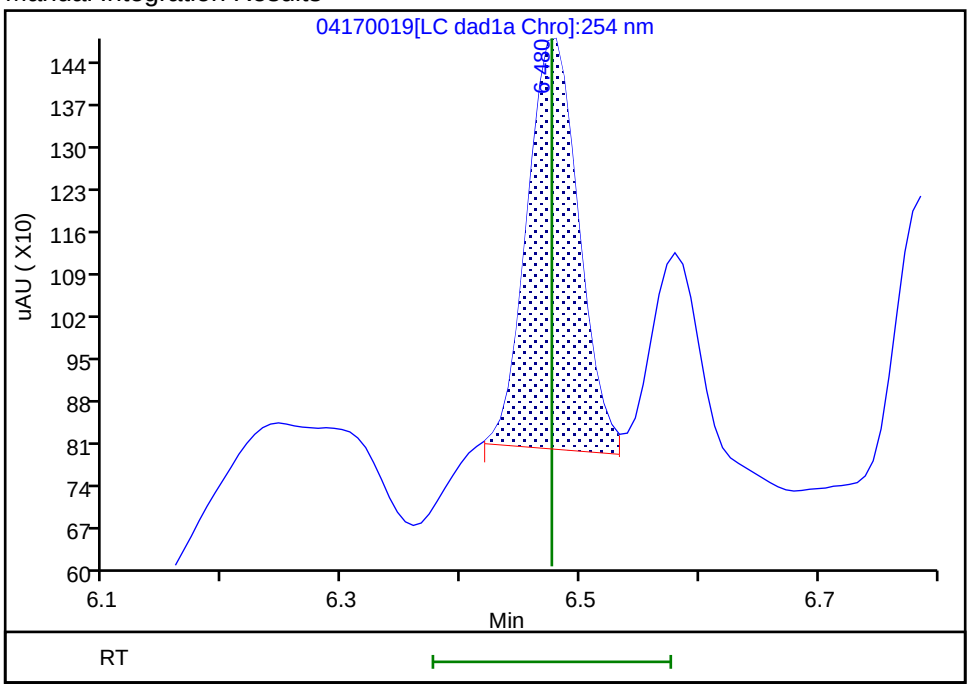
Processing Integration Results

RT: 6.48
Area: 2278
Amount: 0.011305
Amount Units: ug/mL



Manual Integration Results

RT: 6.48
Area: 2051
Amount: 0.010307
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:18:24 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

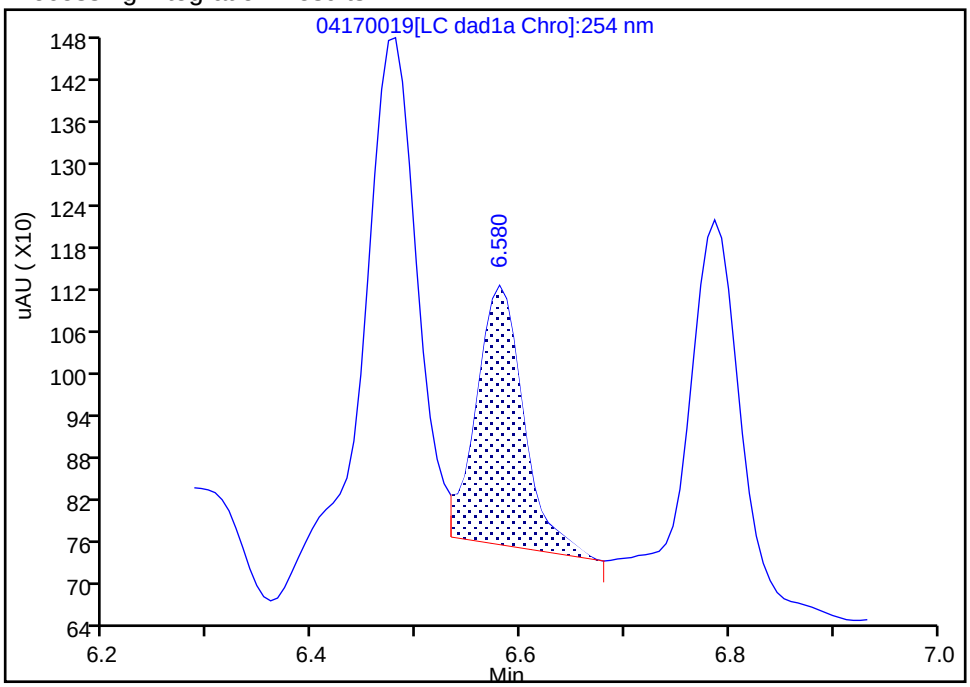
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170019.d
Injection Date: 17-Apr-2024 23:41:30 Instrument ID: CHHPLC_X3
Lims ID: IC INT/DMT 1
Client ID:
Operator ID: JZ/JG ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

4 HMX, CAS: 2691-41-0

Signal: 1

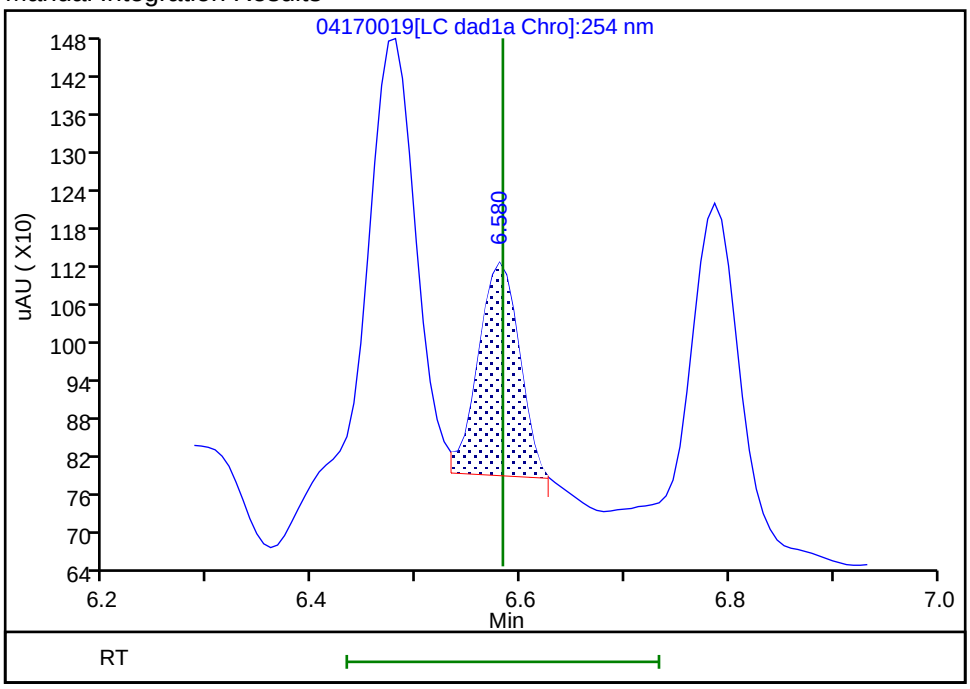
Processing Integration Results

RT: 6.58
Area: 1171
Amount: 0.011907
Amount Units: ug/mL



Manual Integration Results

RT: 6.58
Area: 919
Amount: 0.009619
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:18:25 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

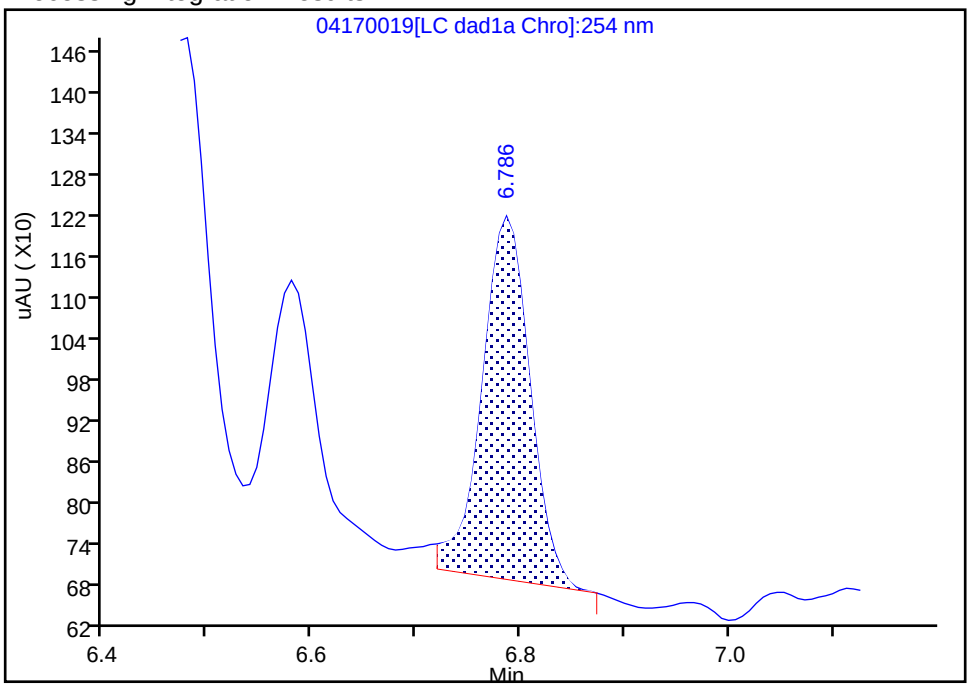
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170019.d
Injection Date: 17-Apr-2024 23:41:30 Instrument ID: CHHPLC_X3
Lims ID: IC INT/DMT 1
Client ID:
Operator ID: JZ/JG ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

6 DNX, CAS: 80251-29-2

Signal: 1

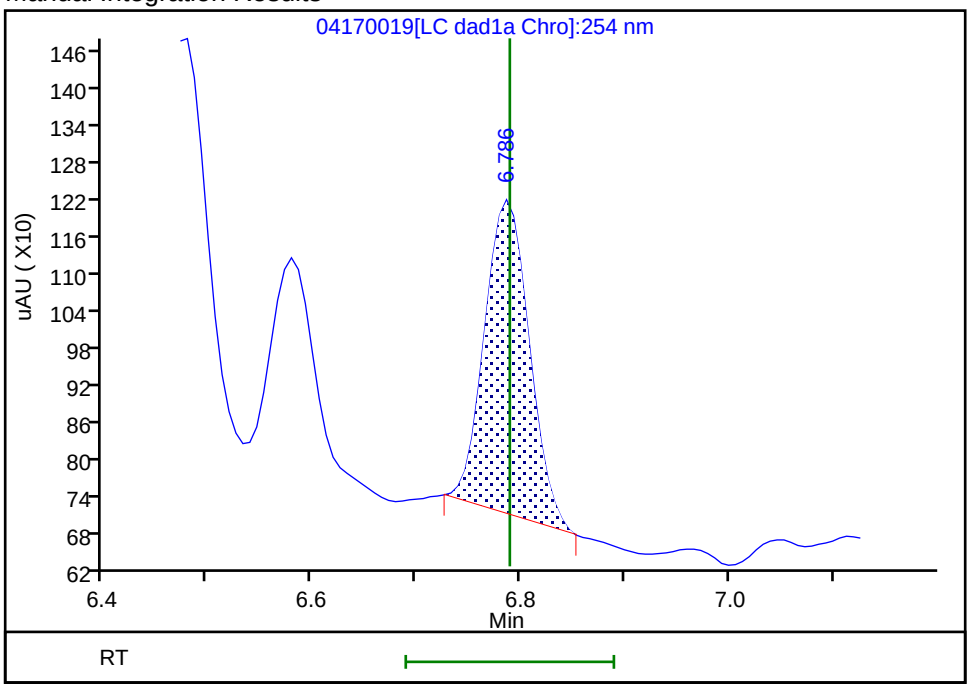
Processing Integration Results

RT: 6.79
Area: 1700
Amount: 0.011386
Amount Units: ug/mL



Manual Integration Results

RT: 6.79
Area: 1516
Amount: 0.010295
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:18:35 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

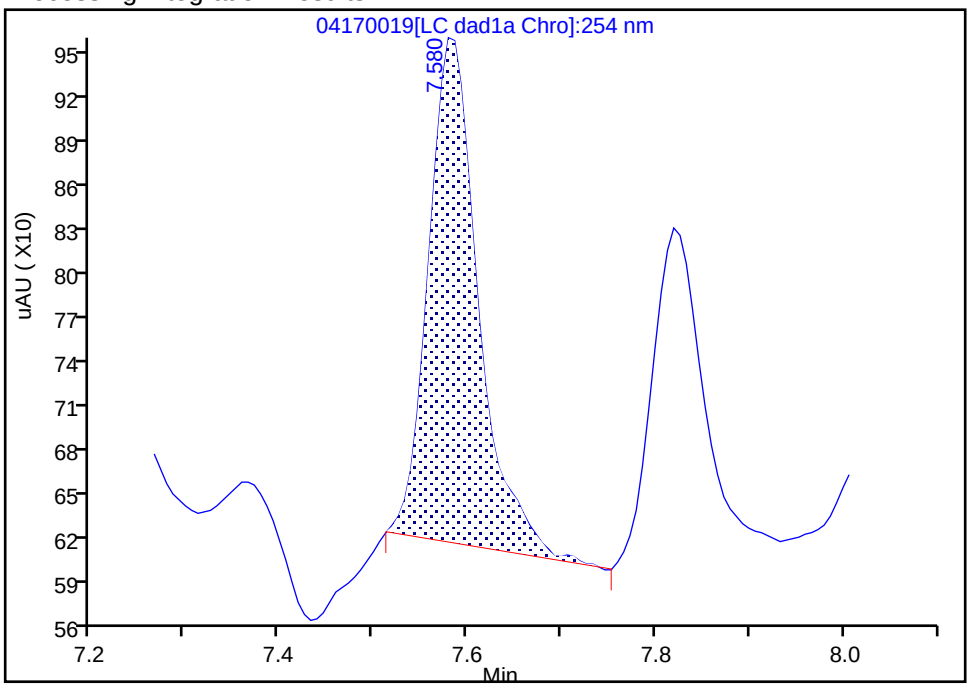
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170019.d				
Injection Date:	17-Apr-2024 23:41:30	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 1				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

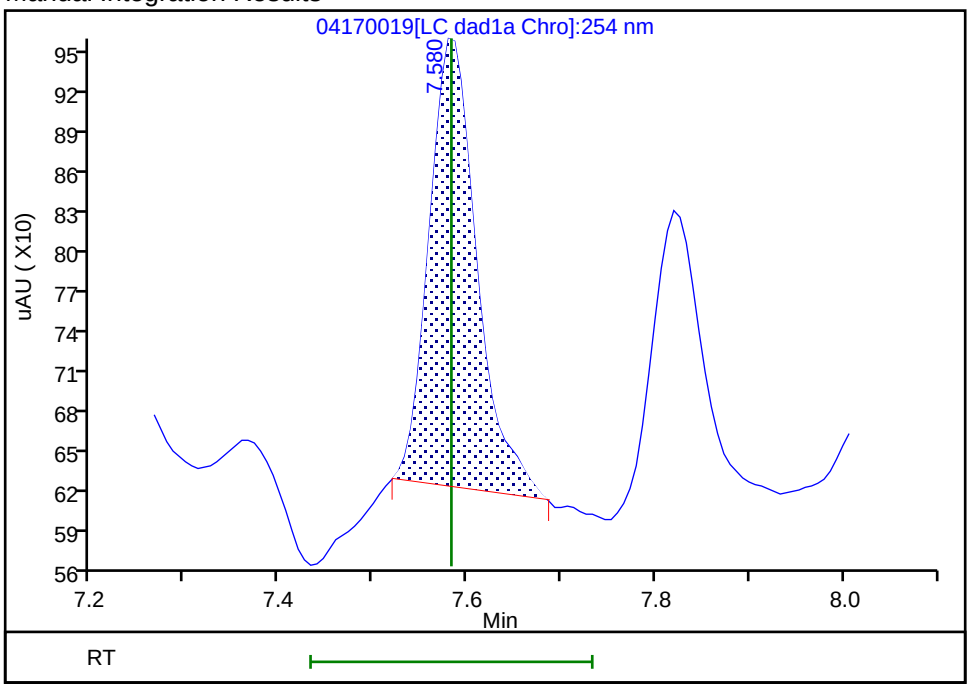
Processing Integration Results

RT: 7.58
Area: 1262
Amount: 0.011308
Amount Units: ug/mL



Manual Integration Results

RT: 7.58
Area: 1187
Amount: 0.010716
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:18:45 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

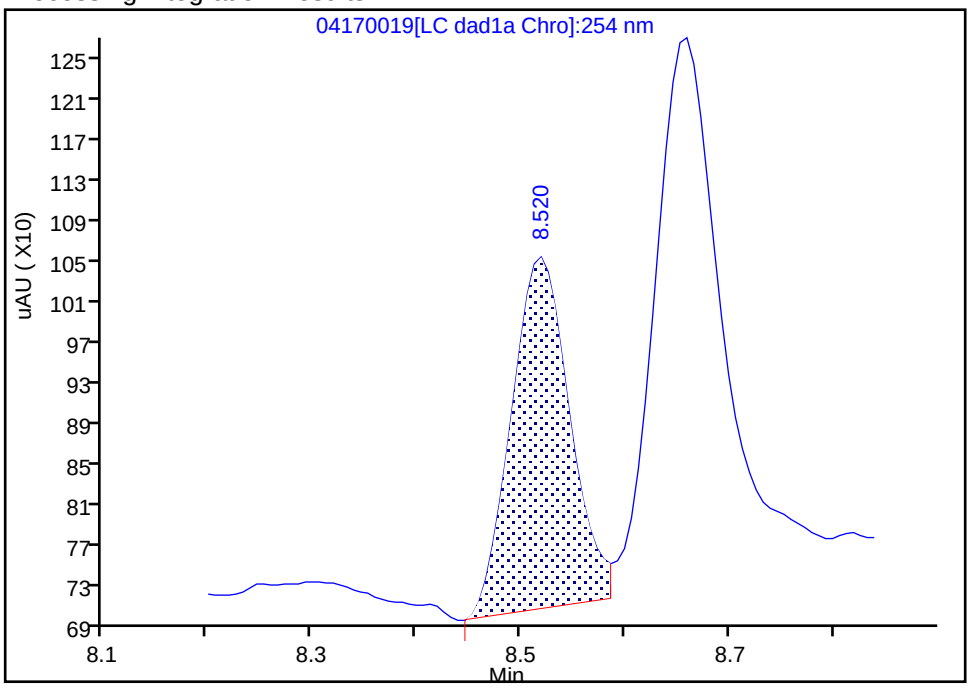
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170019.d
Injection Date: 17-Apr-2024 23:41:30 Instrument ID: CHHPLC_X3
Lims ID: IC INT/DMT 1
Client ID:
Operator ID: JZ/JG ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

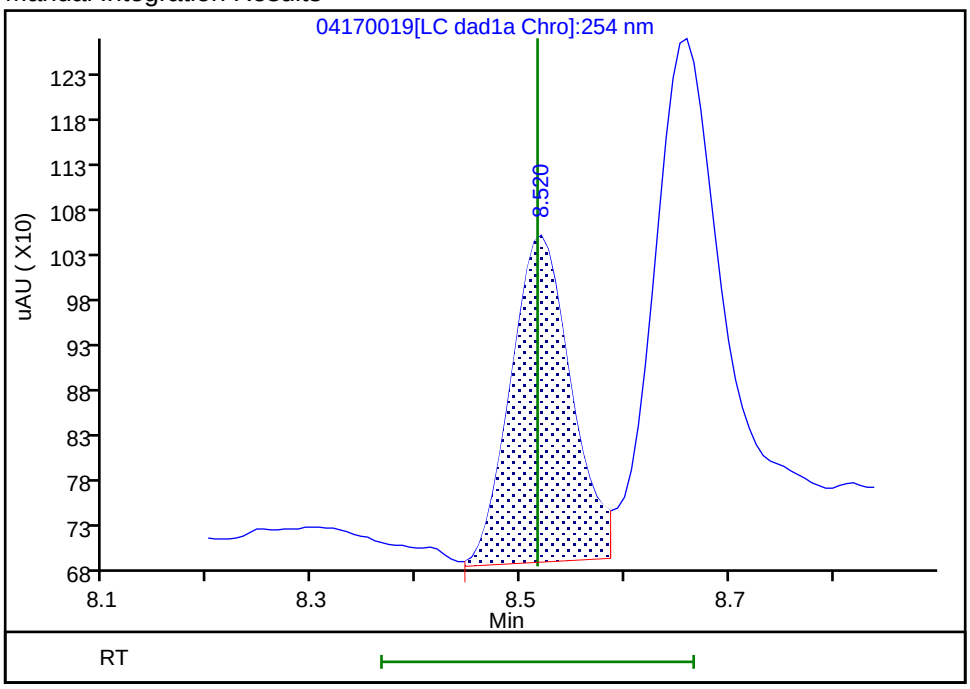
Processing Integration Results

RT: 8.52
Area: 1357
Amount: 0.010216
Amount Units: ug/mL



Manual Integration Results

RT: 8.52
Area: 1445
Amount: 0.010265
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:19:23 -06:00:00 (UTC)
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

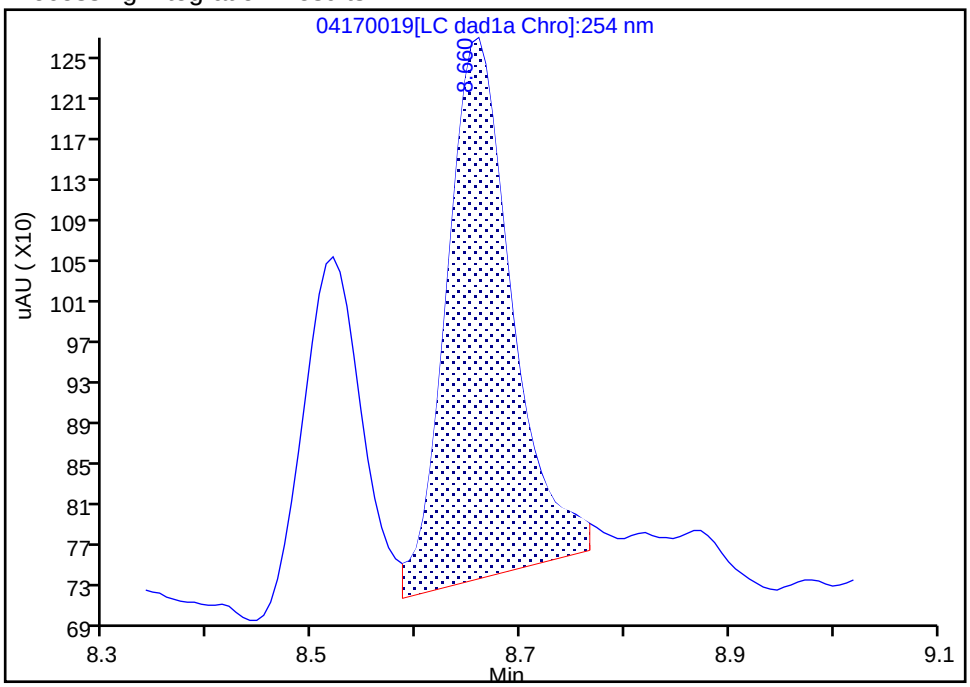
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170019.d
Injection Date: 17-Apr-2024 23:41:30 Instrument ID: CHHPLC_X3
Lims ID: IC INT/DMT 1
Client ID:
Operator ID: JZ/JG ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

11 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

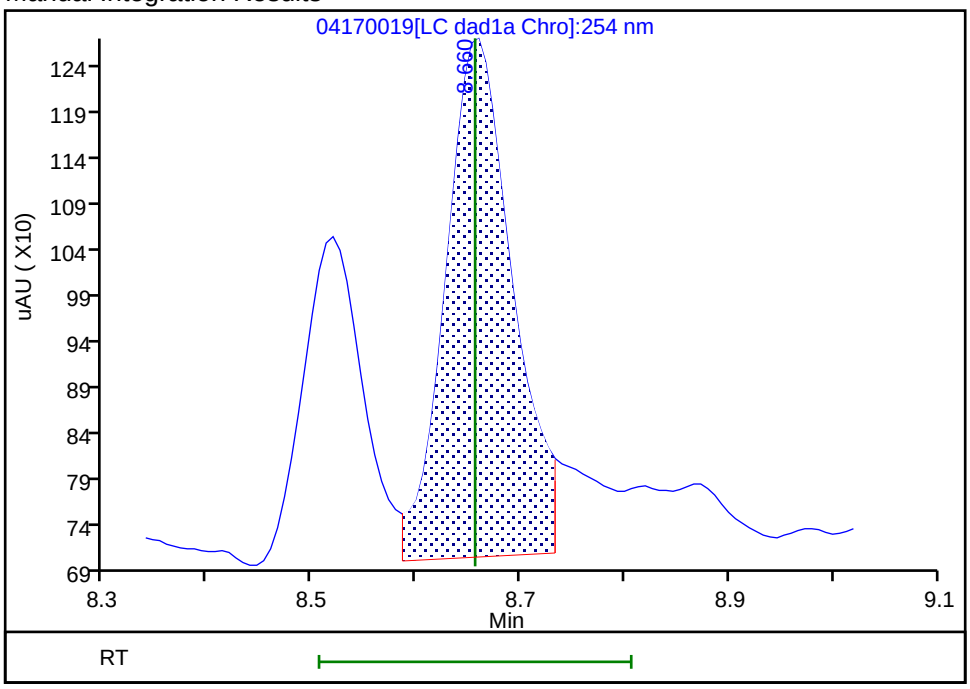
Processing Integration Results

RT: 8.66
Area: 2346
Amount: 0.010661
Amount Units: ug/mL



Manual Integration Results

RT: 8.66
Area: 2549
Amount: 0.011438
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:19:28 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

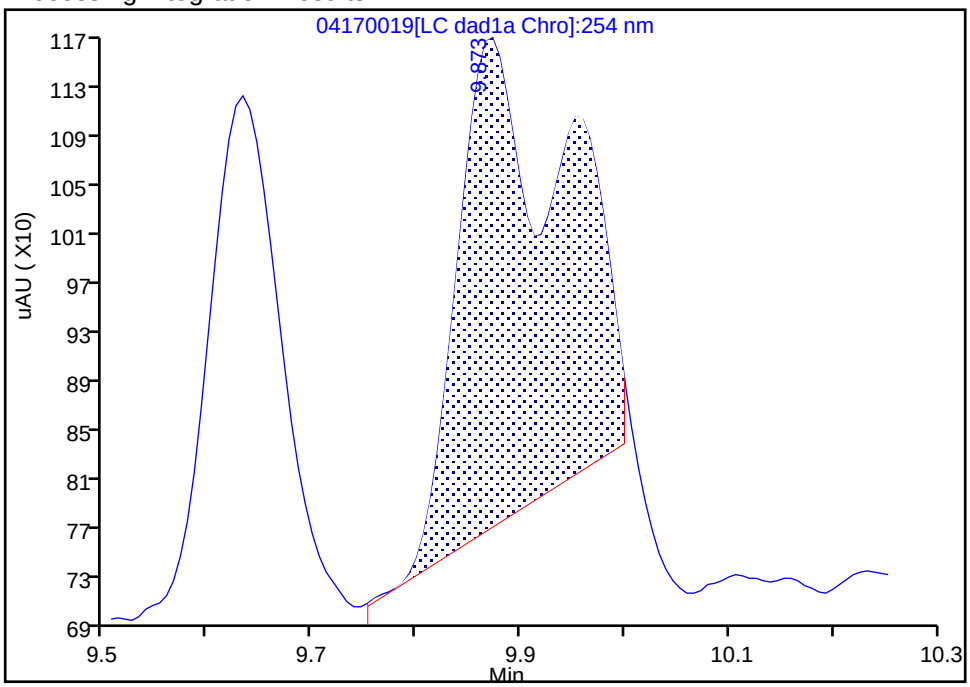
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170019.d
Injection Date: 17-Apr-2024 23:41:30 Instrument ID: CHHPLC_X3
Lims ID: IC INT/DMT 1
Client ID:
Operator ID: JZ/JG ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

14 3,5-Dinitroaniline, CAS: 618-87-1

Signal: 1

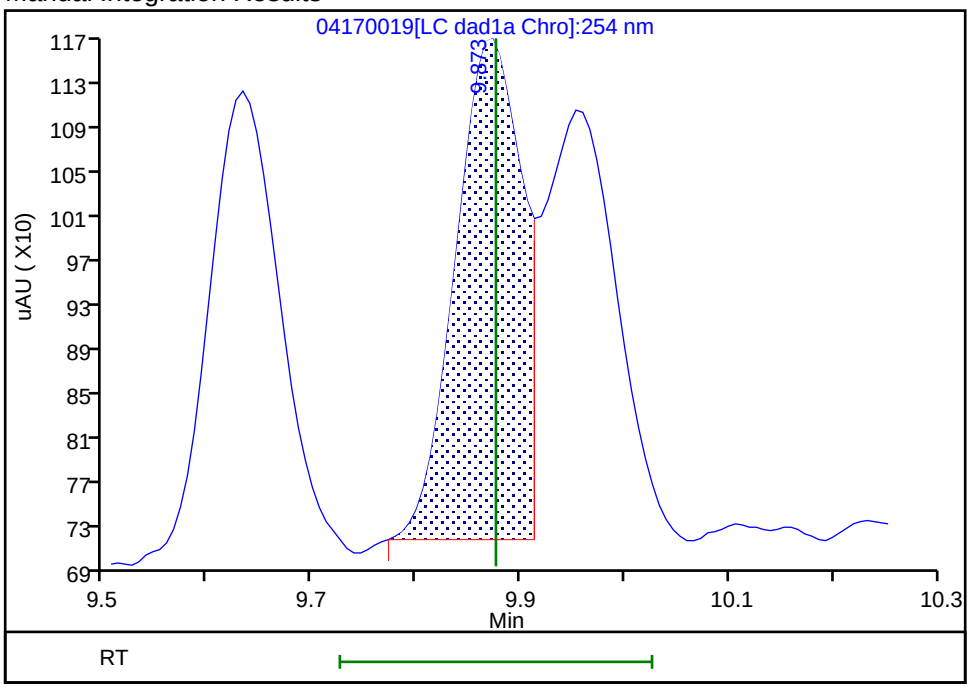
Processing Integration Results

RT: 9.87
Area: 2822
Amount: 0.010781
Amount Units: ug/mL



Manual Integration Results

RT: 9.87
Area: 1971
Amount: 0.009992
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:18:02 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

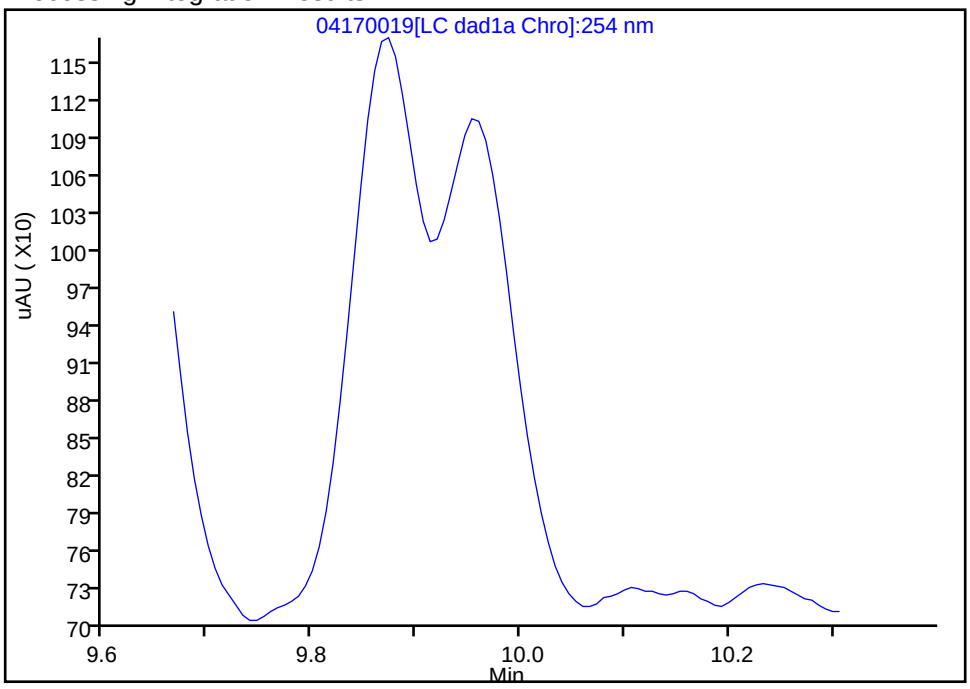
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170019.d				
Injection Date:	17-Apr-2024 23:41:30	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT/DMT 1				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

15 Tetryl, CAS: 479-45-8

Signal: 1

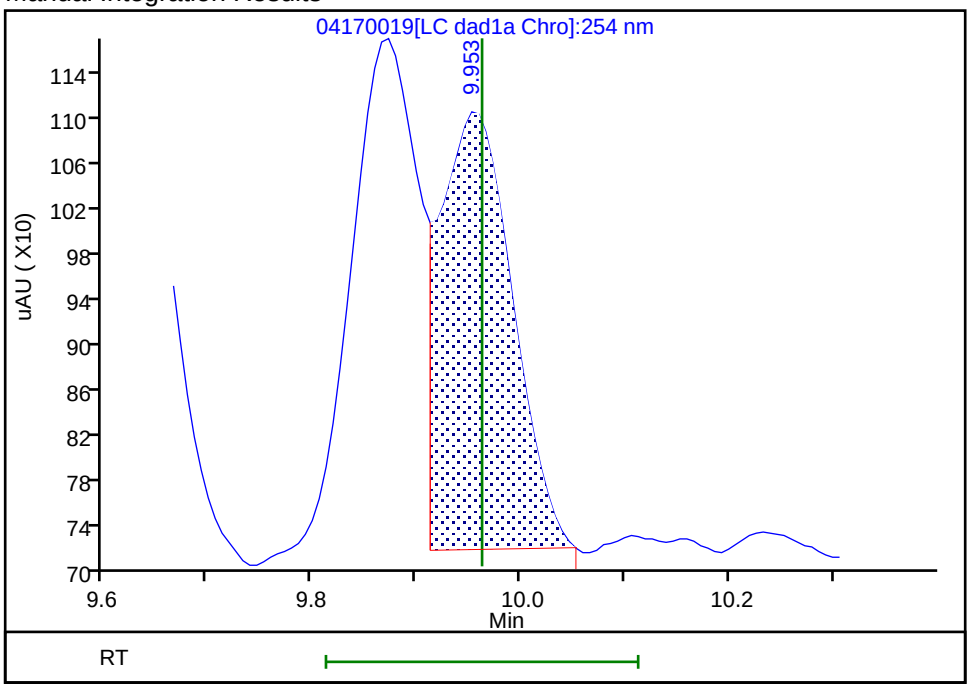
Not Detected
Expected RT: 9.96

Processing Integration Results



Manual Integration Results

RT: 9.95
Area: 1835
Amount: 0.010105
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:18:04 -06:00:00 (UTC)
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

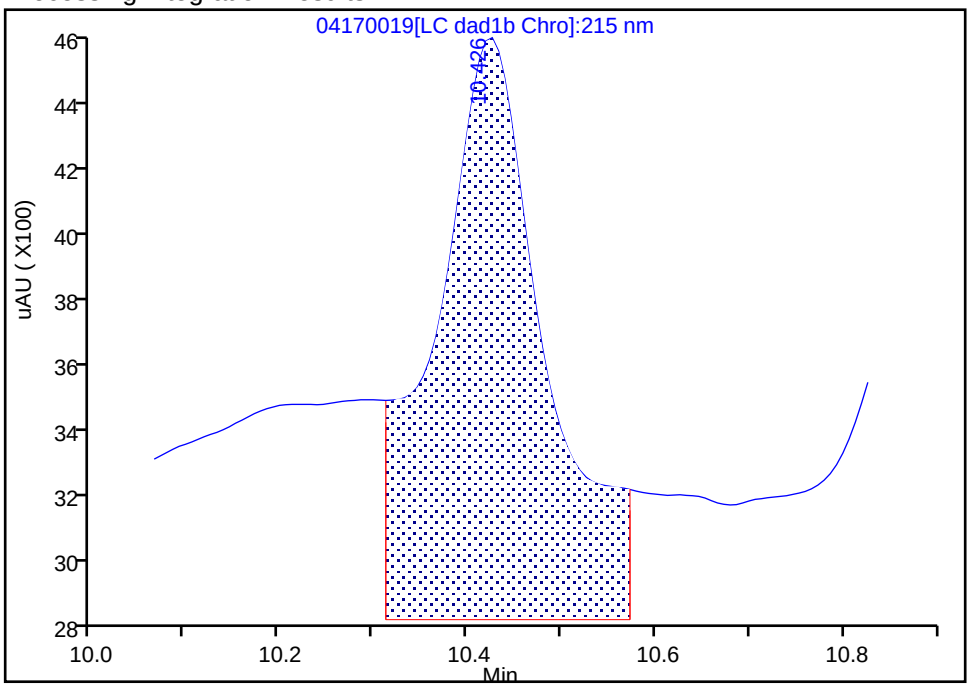
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170019.d
Injection Date: 17-Apr-2024 23:41:30 Instrument ID: CHHPLC_X3
Lims ID: IC INT/DMT 1
Client ID:
Operator ID: JZ/JG ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1C, 215 nm

16 Nitroglycerin, CAS: 55-63-0

Signal: 1

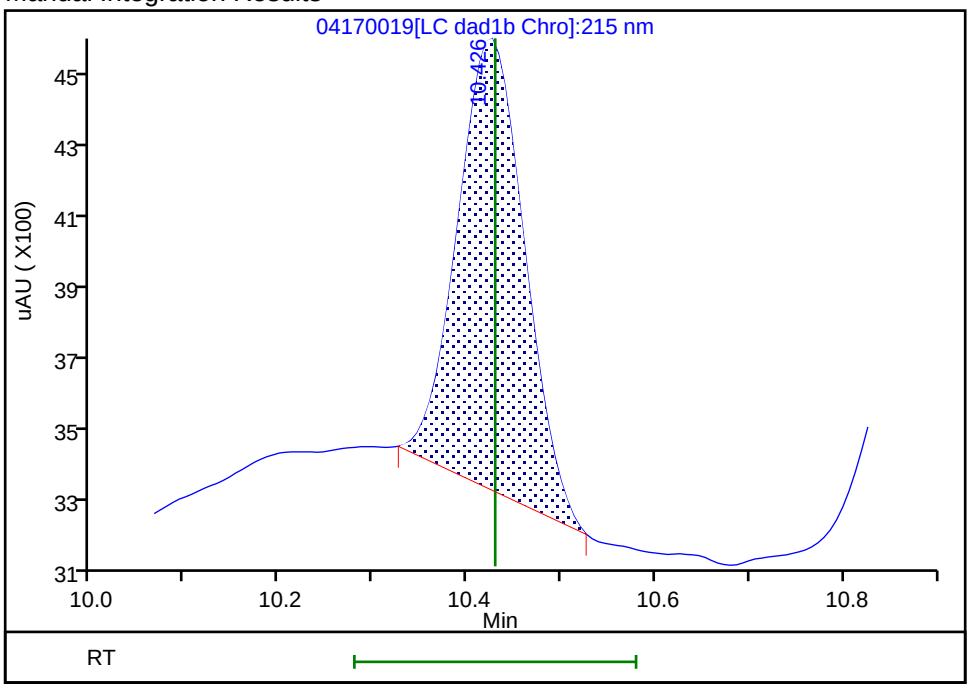
Processing Integration Results

RT: 10.43
Area: 14354
Amount: 0.189635
Amount Units: ug/mL



Manual Integration Results

RT: 10.43
Area: 6048
Amount: 0.090997
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:17:39 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

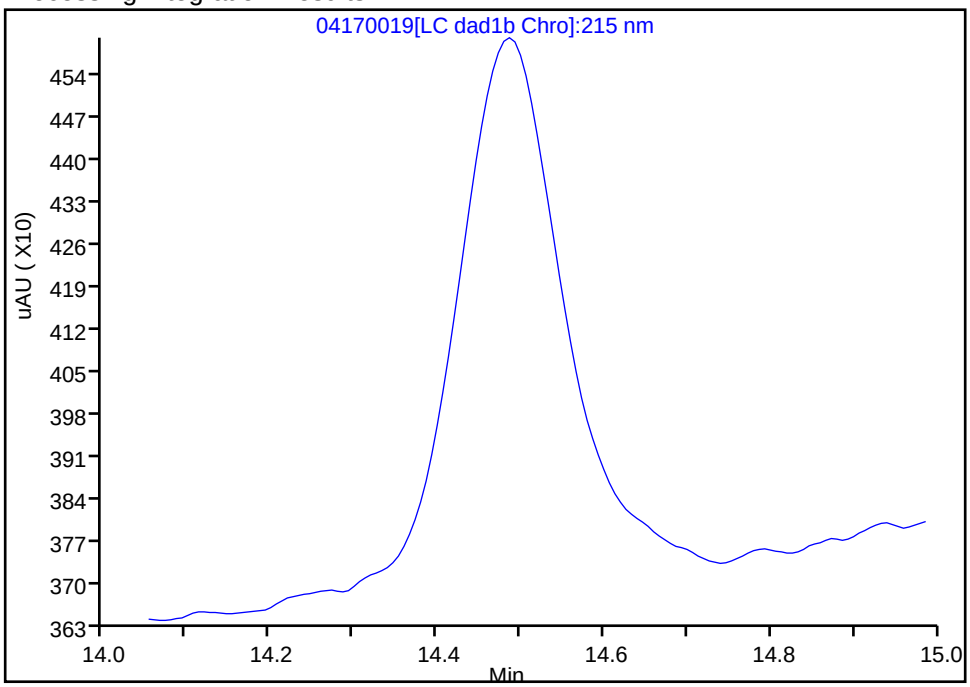
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170019.d
Injection Date: 17-Apr-2024 23:41:30 Instrument ID: CHHPLC_X3
Lims ID: IC INT/DMT 1
Client ID:
Operator ID: JZ/JG ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1C, 215 nm

25 PETN, CAS: 78-11-5

Signal: 1

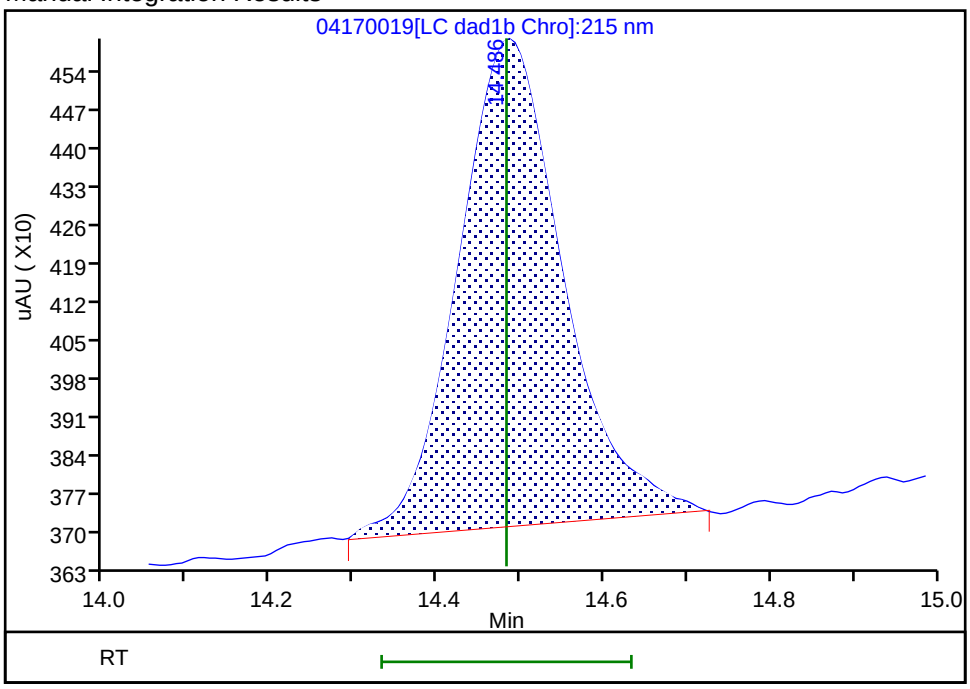
Not Detected
Expected RT: 14.48

Processing Integration Results



Manual Integration Results

RT: 14.49
Area: 7807
Amount: 0.108526
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:17:47 -06:00:00 (UTC)
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

Calibration / TNX

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

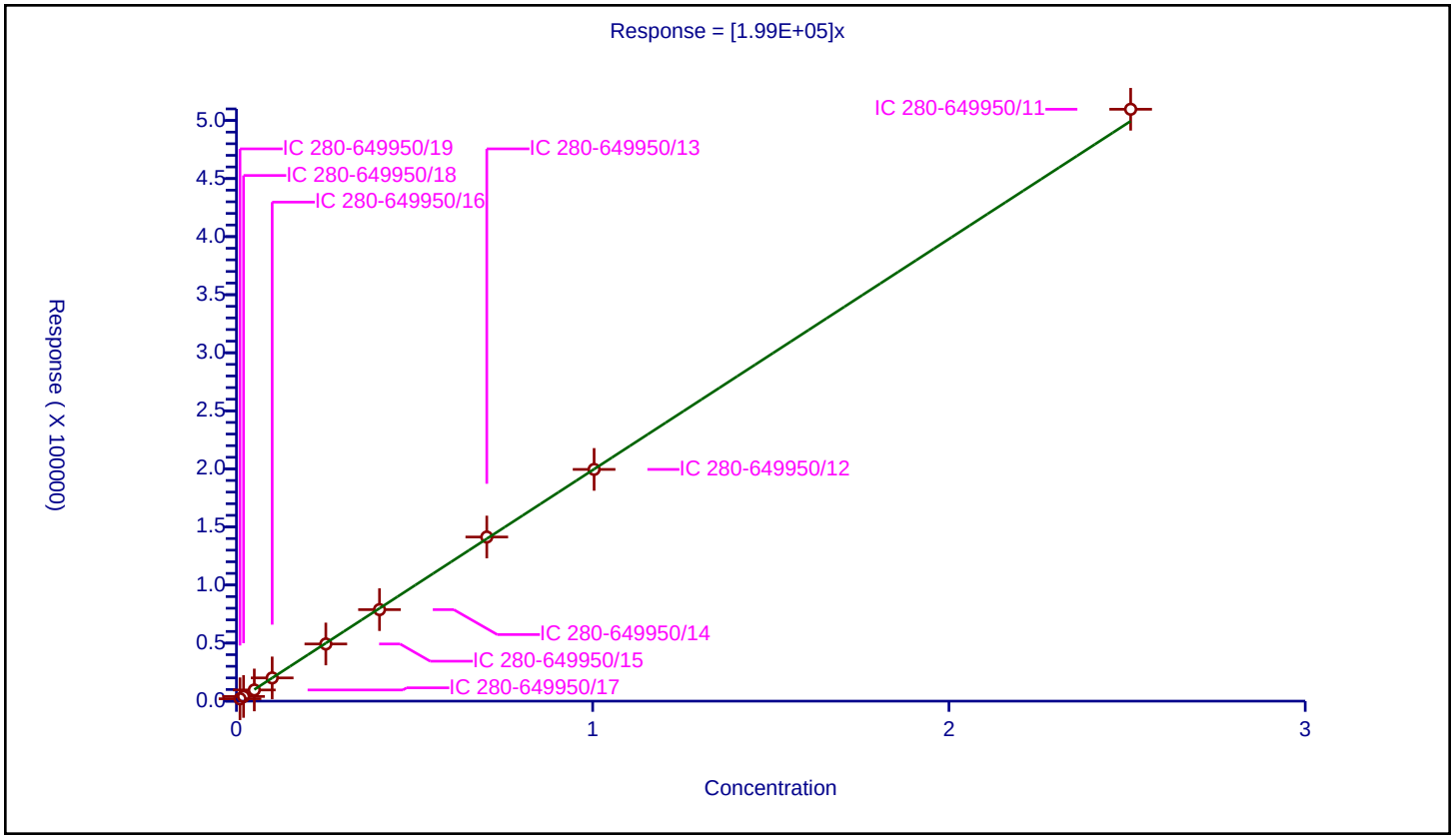
Curve Coefficients

Intercept:	0
Slope:	1.99E+05

Error Coefficients

Relative Standard Deviation:	1.9

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-649950/19	0.01004	2051.0			204282.868526	Y
2	IC 280-649950/18	0.02008	4023.0			200348.605578	Y
3	IC 280-649950/17	0.0502	9628.0			191792.828685	Y
4	IC 280-649950/16	0.1004	20006.0			199262.948207	Y
5	IC 280-649950/15	0.251	49234.0			196151.394422	Y
6	IC 280-649950/14	0.4016	78789.0			196187.749004	Y
7	IC 280-649950/13	0.7028	141333.0			201099.88617	Y
8	IC 280-649950/12	1.004	199537.0			198742.031873	Y
9	IC 280-649950/11	2.51	509682.0			203060.557769	Y



5/21/2024
3:57:23 PM

Calibration / HMX

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

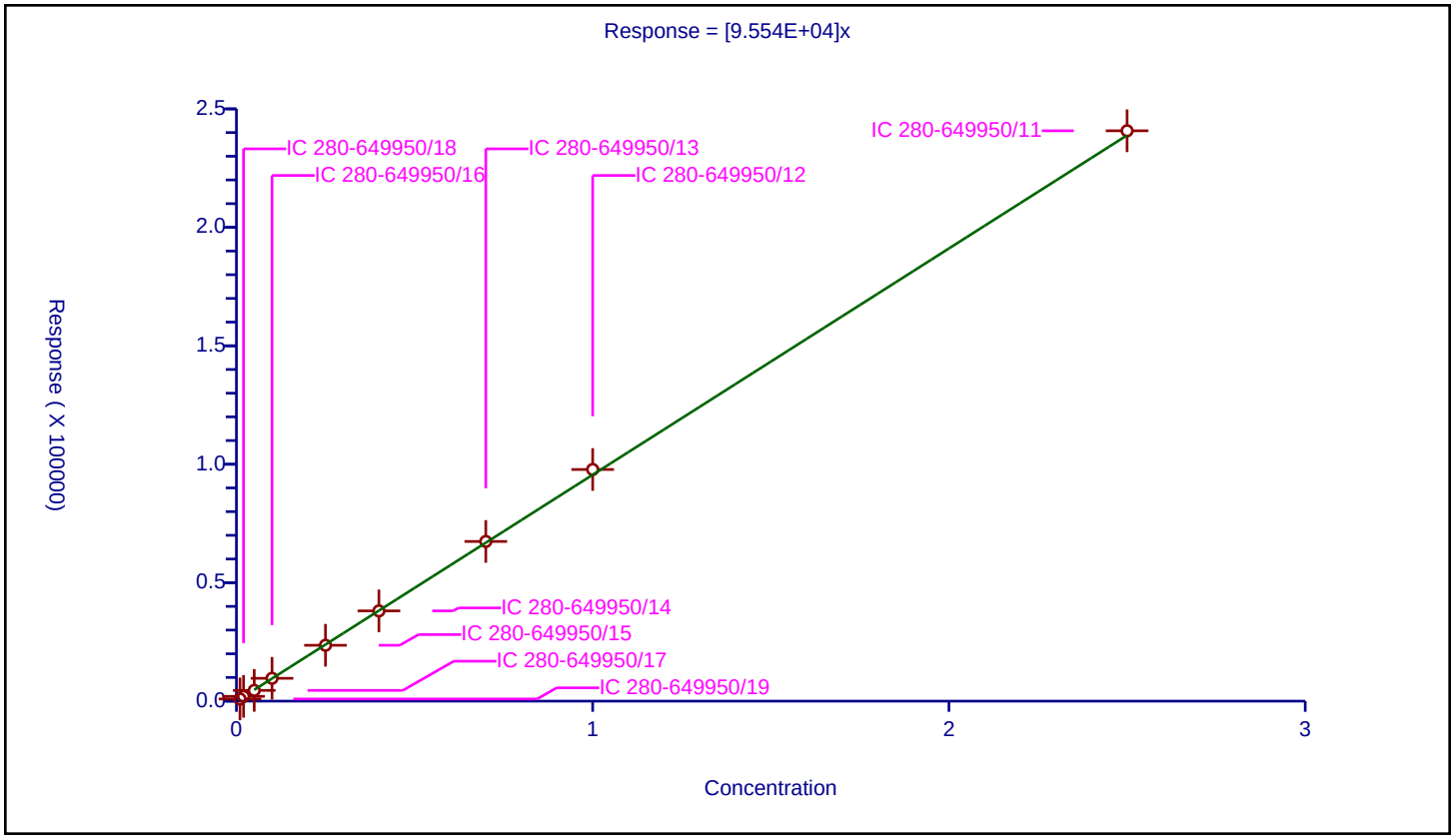
Curve Coefficients

Intercept:	0
Slope:	9.554E+04

Error Coefficients

Relative Standard Deviation:	3.2

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-649950/19	0.01	919.0			91900.0	Y
2	IC 280-649950/18	0.02	2017.0			100850.0	Y
3	IC 280-649950/17	0.05	4536.0			90720.0	Y
4	IC 280-649950/16	0.1	9645.0			96450.0	Y
5	IC 280-649950/15	0.25	23583.0			94332.0	Y
6	IC 280-649950/14	0.4	38101.0			95252.5	Y
7	IC 280-649950/13	0.7	67408.0			96297.142857	Y
8	IC 280-649950/12	1.0	97787.0			97787.0	Y
9	IC 280-649950/11	2.5	240762.0			96304.8	Y



5/21/2024
3:57:23 PM

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

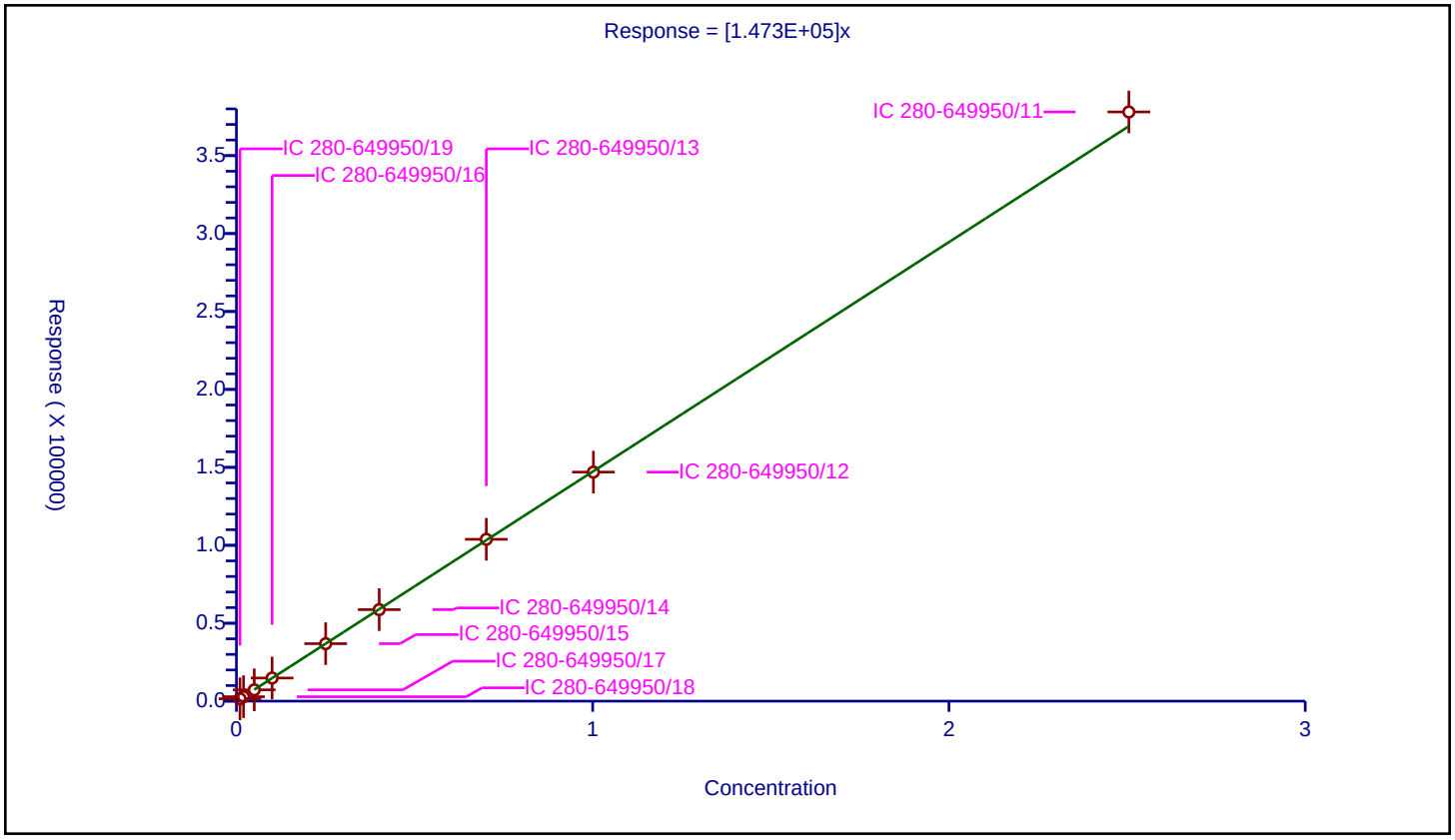
Curve Coefficients

Intercept:	0
Slope:	1.473E+05

Error Coefficients

Relative Standard Deviation:	2.0

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-649950/19	0.01002	1516.0			151297.40519	Y
2	IC 280-649950/18	0.02004	2843.0			141866.267465	Y
3	IC 280-649950/17	0.0501	7258.0			144870.259481	Y
4	IC 280-649950/16	0.1002	14834.0			148043.912176	Y
5	IC 280-649950/15	0.2505	36872.0			147193.612774	Y
6	IC 280-649950/14	0.4008	58701.0			146459.580838	Y
7	IC 280-649950/13	0.7014	103834.0			148038.209296	Y
8	IC 280-649950/12	1.002	146952.0			146658.682635	Y
9	IC 280-649950/11	2.505	378026.0			150908.582834	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

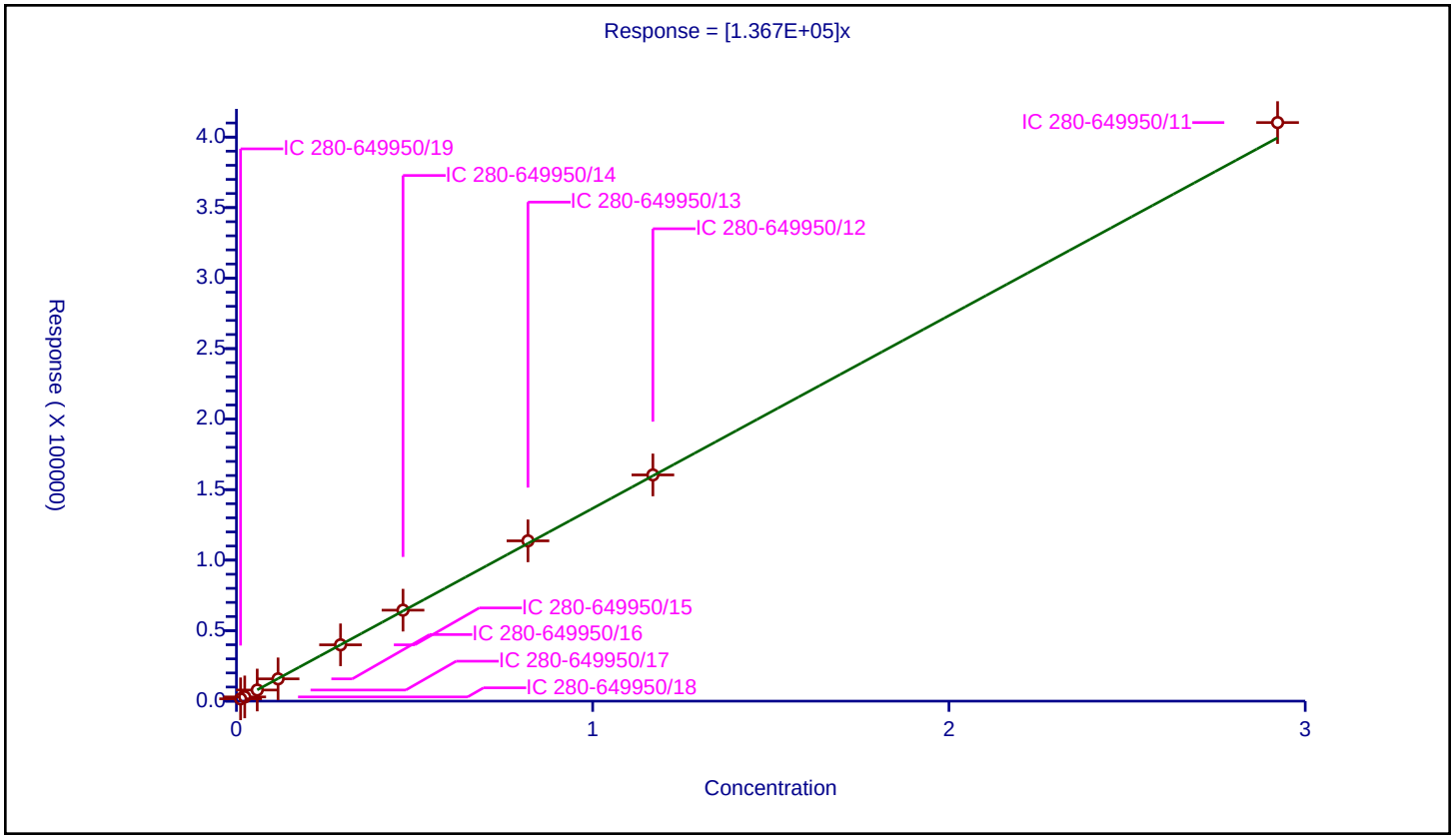
Curve Coefficients

Intercept:	0
Slope:	1.367E+05

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-649950/19	0.01169	1649.0			141060.735672	Y
2	IC 280-649950/18	0.02338	2991.0			127929.854577	Y
3	IC 280-649950/17	0.05845	7887.0			134935.842601	Y
4	IC 280-649950/16	0.1169	15807.0			135218.135158	Y
5	IC 280-649950/15	0.29225	39930.0			136629.597947	Y
6	IC 280-649950/14	0.4676	64510.0			137959.794696	Y
7	IC 280-649950/13	0.8183	113678.0			138919.711597	Y
8	IC 280-649950/12	1.169	160428.0			137235.243798	Y
9	IC 280-649950/11	2.9225	410302.0			140394.183062	Y



Calibration / RDX

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

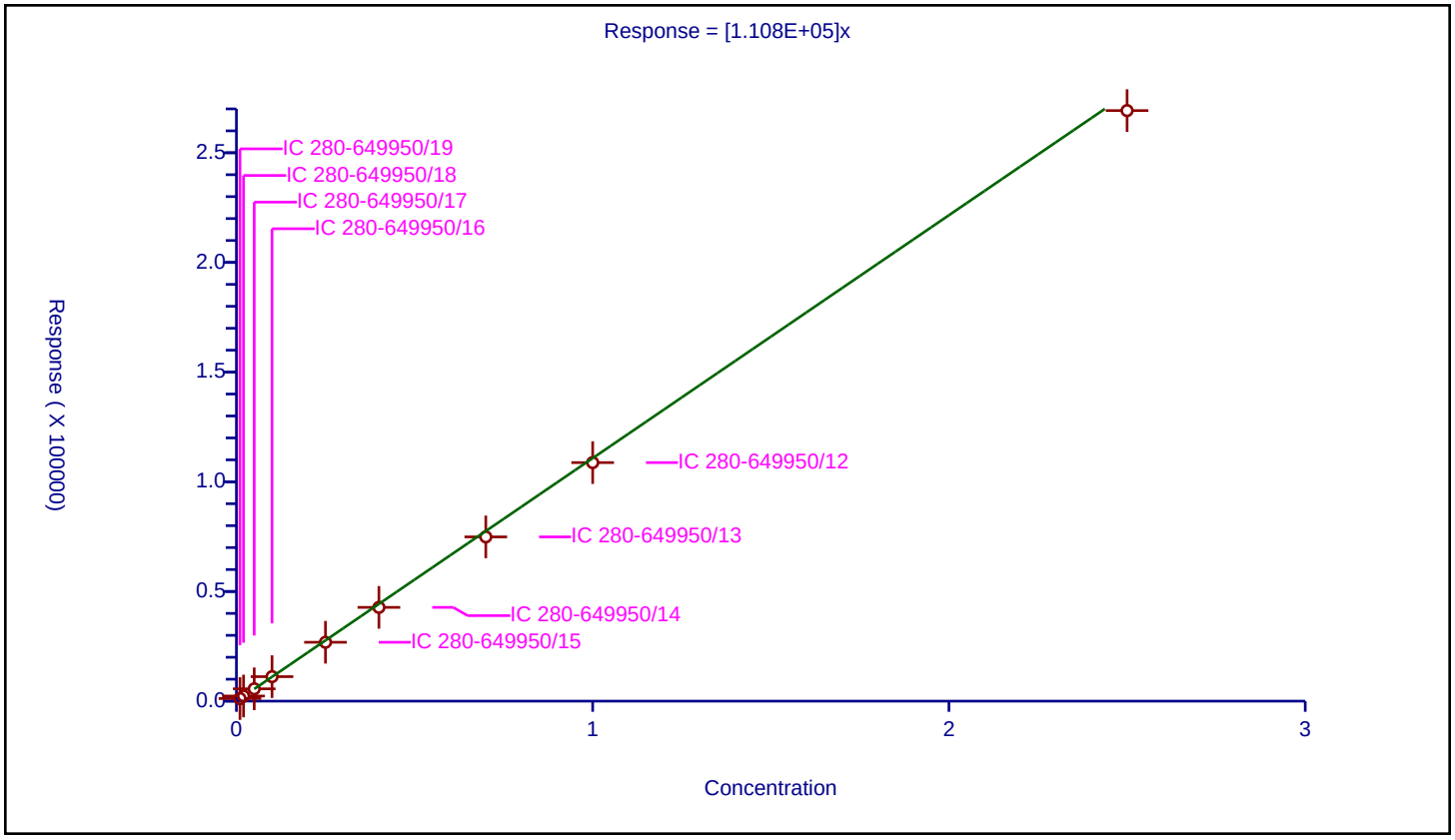
Curve Coefficients

Intercept:	0
Slope:	1.108E+05

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-649950/19	0.01	1187.0			118700.0	Y
2	IC 280-649950/18	0.02	2334.0			116700.0	Y
3	IC 280-649950/17	0.05	5612.0			112240.0	Y
4	IC 280-649950/16	0.1	11162.0			111620.0	Y
5	IC 280-649950/15	0.25	26844.0			107376.0	Y
6	IC 280-649950/14	0.4	42747.0			106867.5	Y
7	IC 280-649950/13	0.7	74871.0			106958.571429	Y
8	IC 280-649950/12	1.0	108752.0			108752.0	Y
9	IC 280-649950/11	2.5	269224.0			107689.6	Y



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Calibration / 2,4,6-Trinitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

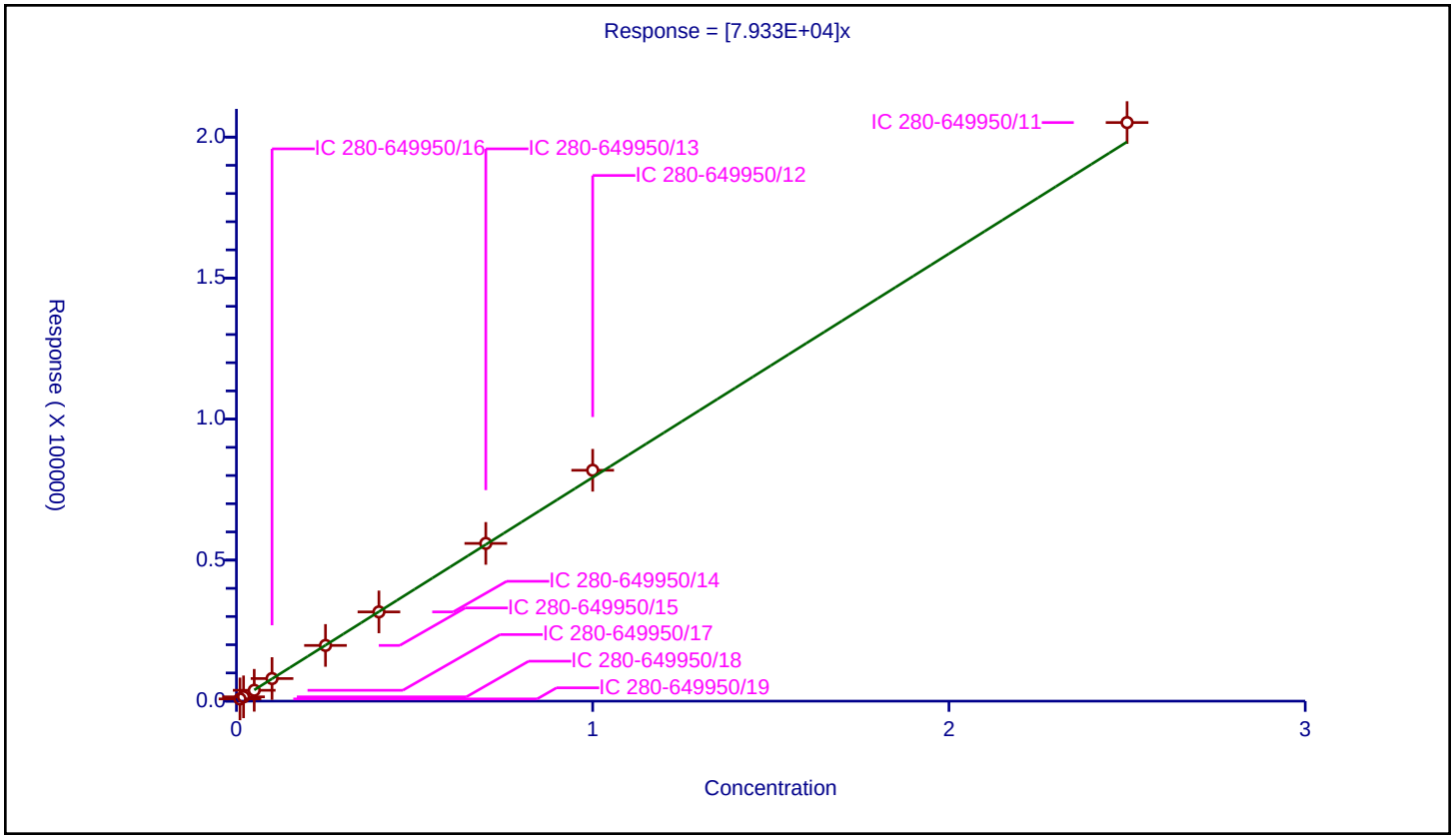
Curve Coefficients

Intercept:	0
Slope:	7.933E+04

Error Coefficients

Relative Standard Deviation:	2.5

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-649950/19	0.01	787.0			78700.0	Y
2	IC 280-649950/18	0.02	1524.0			76200.0	Y
3	IC 280-649950/17	0.05	3847.0			76940.0	Y
4	IC 280-649950/16	0.1	8016.0			80160.0	Y
5	IC 280-649950/15	0.25	19748.0			78992.0	Y
6	IC 280-649950/14	0.4	31644.0			79110.0	Y
7	IC 280-649950/13	0.7	55934.0			79905.714286	Y
8	IC 280-649950/12	1.0	81861.0			81861.0	Y
9	IC 280-649950/11	2.5	205156.0			82062.4	Y



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Calibration / 1,2-Dinitrobenzene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

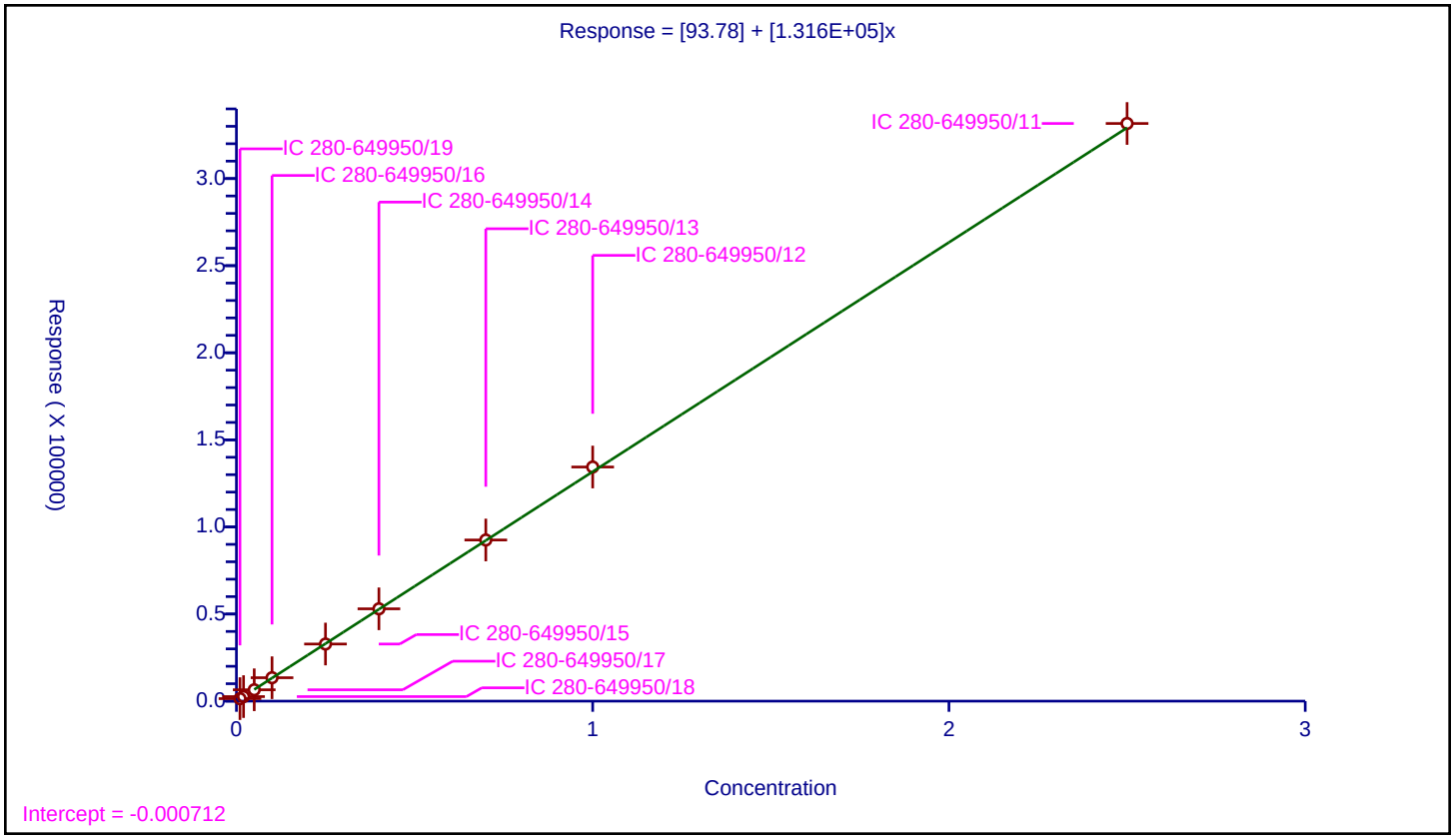
Curve Coefficients

Intercept:	93.78
Slope:	1.316E+05

Error Coefficients

Relative Standard Deviation:	2.5

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-649950/19	0.01	1445.0			144500.0	Y
2	IC 280-649950/18	0.02	2603.0			130150.0	Y
3	IC 280-649950/17	0.05	6521.0			130420.0	Y
4	IC 280-649950/16	0.1	13450.0			134500.0	Y
5	IC 280-649950/15	0.25	32787.0			131148.0	Y
6	IC 280-649950/14	0.4	52999.0			132497.5	Y
7	IC 280-649950/13	0.7	92511.0			132158.571429	Y
8	IC 280-649950/12	1.0	134411.0			134411.0	Y
9	IC 280-649950/11	2.5	331618.0			132647.2	Y



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Calibration / 1,3,5-Trinitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

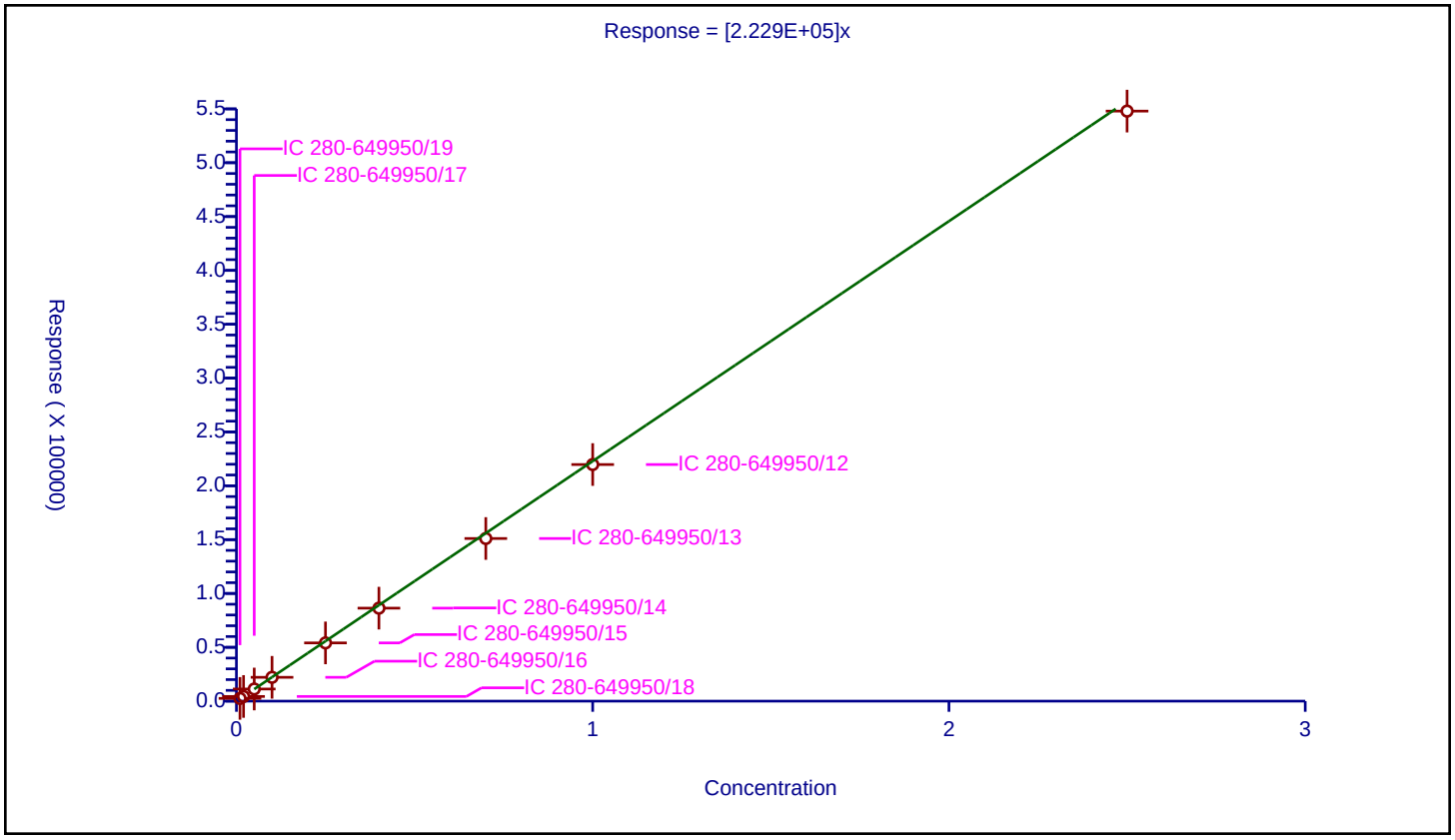
Curve Coefficients

Intercept:	0
Slope:	2.229E+05

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-649950/19	0.01	2549.0			254900.0	Y
2	IC 280-649950/18	0.02	4349.0			217450.0	Y
3	IC 280-649950/17	0.05	11258.0			225160.0	Y
4	IC 280-649950/16	0.1	22129.0			221290.0	Y
5	IC 280-649950/15	0.25	54073.0			216292.0	Y
6	IC 280-649950/14	0.4	86362.0			215905.0	Y
7	IC 280-649950/13	0.7	151045.0			215778.571429	Y
8	IC 280-649950/12	1.0	219723.0			219723.0	Y
9	IC 280-649950/11	2.5	547952.0			219180.8	Y



Calibration / 1,3-Dinitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

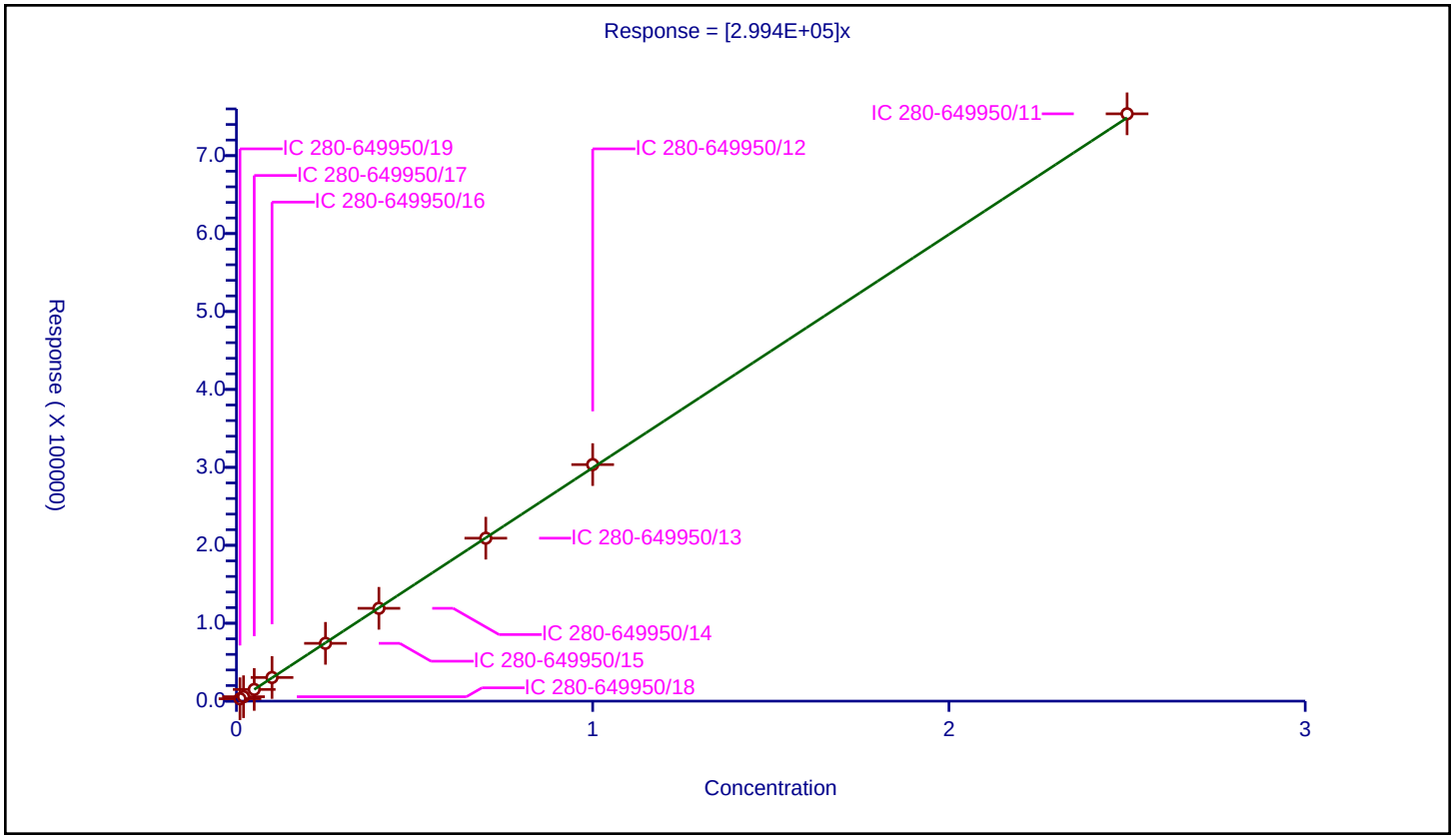
Curve Coefficients

Intercept:	0
Slope:	2.994E+05

Error Coefficients

Relative Standard Deviation:	2.3

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-649950/19	0.01	3086.0			308600.0	Y
2	IC 280-649950/18	0.02	5678.0			283900.0	Y
3	IC 280-649950/17	0.05	15023.0			300460.0	Y
4	IC 280-649950/16	0.1	30359.0			303590.0	Y
5	IC 280-649950/15	0.25	74190.0			296760.0	Y
6	IC 280-649950/14	0.4	119137.0			297842.5	Y
7	IC 280-649950/13	0.7	209122.0			298745.714286	Y
8	IC 280-649950/12	1.0	303550.0			303550.0	Y
9	IC 280-649950/11	2.5	753680.0			301472.0	Y



Calibration / Nitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

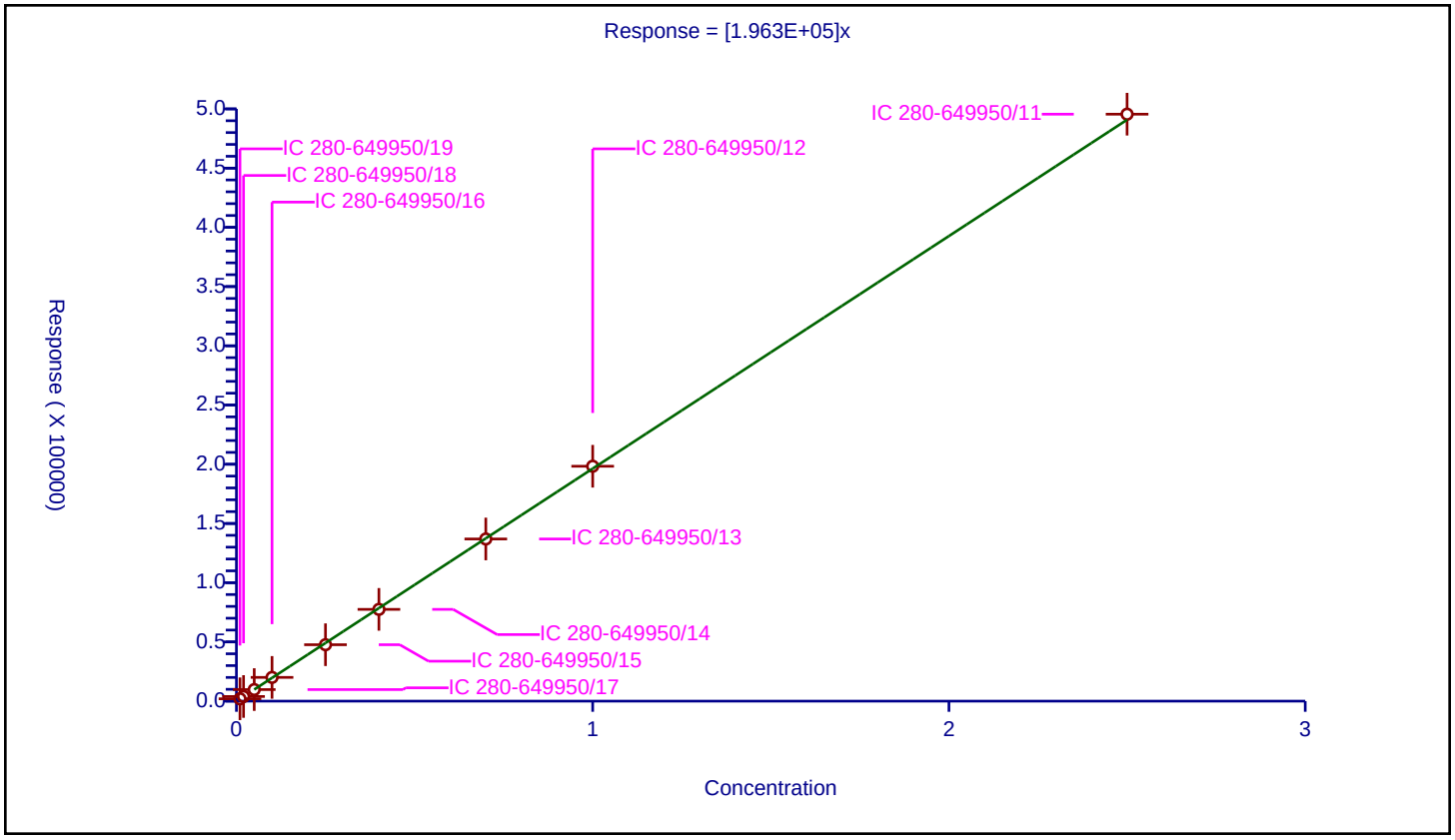
Curve Coefficients

Intercept:	0
Slope:	1.963E+05

Error Coefficients

Relative Standard Deviation:	1.5

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-649950/19	0.01	1985.0			198500.0	Y
2	IC 280-649950/18	0.02	3932.0			196600.0	Y
3	IC 280-649950/17	0.05	9759.0			195180.0	Y
4	IC 280-649950/16	0.1	20035.0			200350.0	Y
5	IC 280-649950/15	0.25	47641.0			190564.0	Y
6	IC 280-649950/14	0.4	77471.0			193677.5	Y
7	IC 280-649950/13	0.7	136899.0			195570.0	Y
8	IC 280-649950/12	1.0	198305.0			198305.0	Y
9	IC 280-649950/11	2.5	495535.0			198214.0	Y



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Calibration / 3,5-Dinitroaniline

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

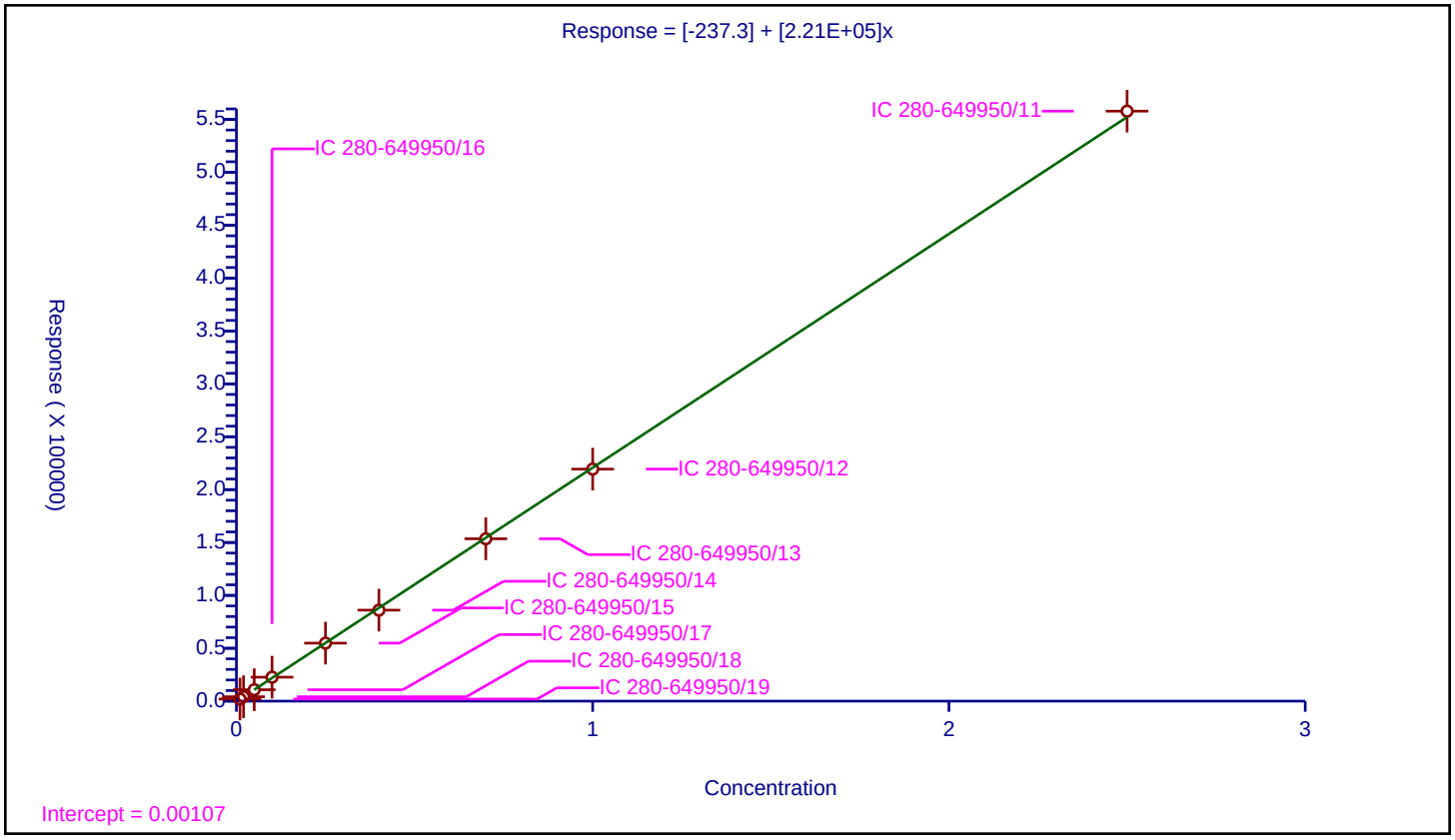
Curve Coefficients

Intercept:	-237.3
Slope:	2.21E+05

Error Coefficients

Relative Standard Deviation:	1.7

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-649950/19	0.01	1971.0			197100.0	Y
2	IC 280-649950/18	0.02	4171.0			208550.0	Y
3	IC 280-649950/17	0.05	10781.0			215620.0	Y
4	IC 280-649950/16	0.1	22651.0			226510.0	Y
5	IC 280-649950/15	0.25	54841.0			219364.0	Y
6	IC 280-649950/14	0.4	86047.0			215117.5	Y
7	IC 280-649950/13	0.7	153531.0			219330.0	Y
8	IC 280-649950/12	1.0	219396.0			219396.0	Y
9	IC 280-649950/11	2.5	557874.0			223149.6	Y



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Calibration / Tetryl

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

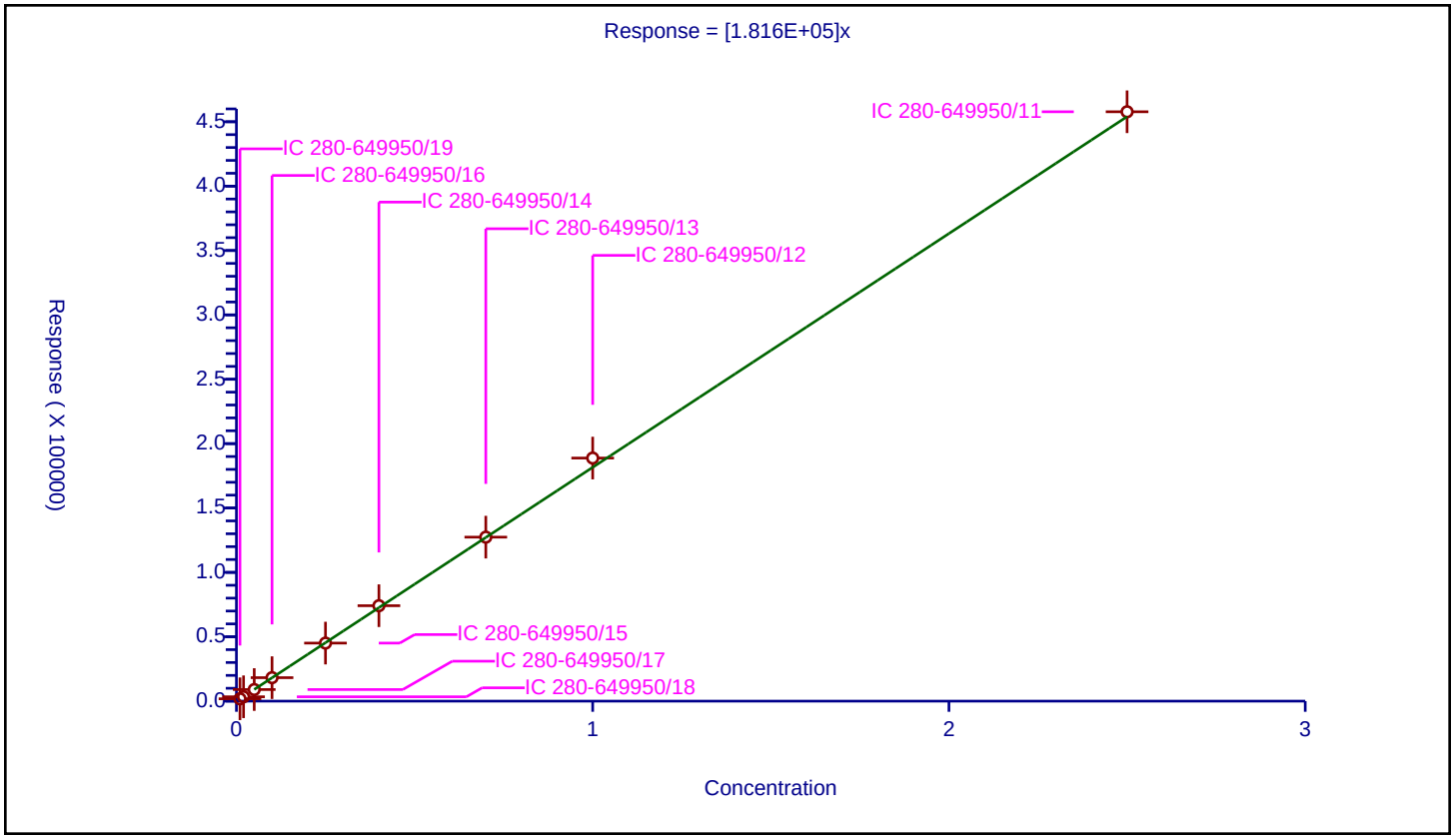
Curve Coefficients

Intercept:	0
Slope:	1.816E+05

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-649950/19	0.01	1835.0			183500.0	Y
2	IC 280-649950/18	0.02	3374.0			168700.0	Y
3	IC 280-649950/17	0.05	9010.0			180200.0	Y
4	IC 280-649950/16	0.1	18238.0			182380.0	Y
5	IC 280-649950/15	0.25	45082.0			180328.0	Y
6	IC 280-649950/14	0.4	74126.0			185315.0	Y
7	IC 280-649950/13	0.7	127375.0			181964.285714	Y
8	IC 280-649950/12	1.0	188801.0			188801.0	Y
9	IC 280-649950/11	2.5	457763.0			183105.2	Y



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Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

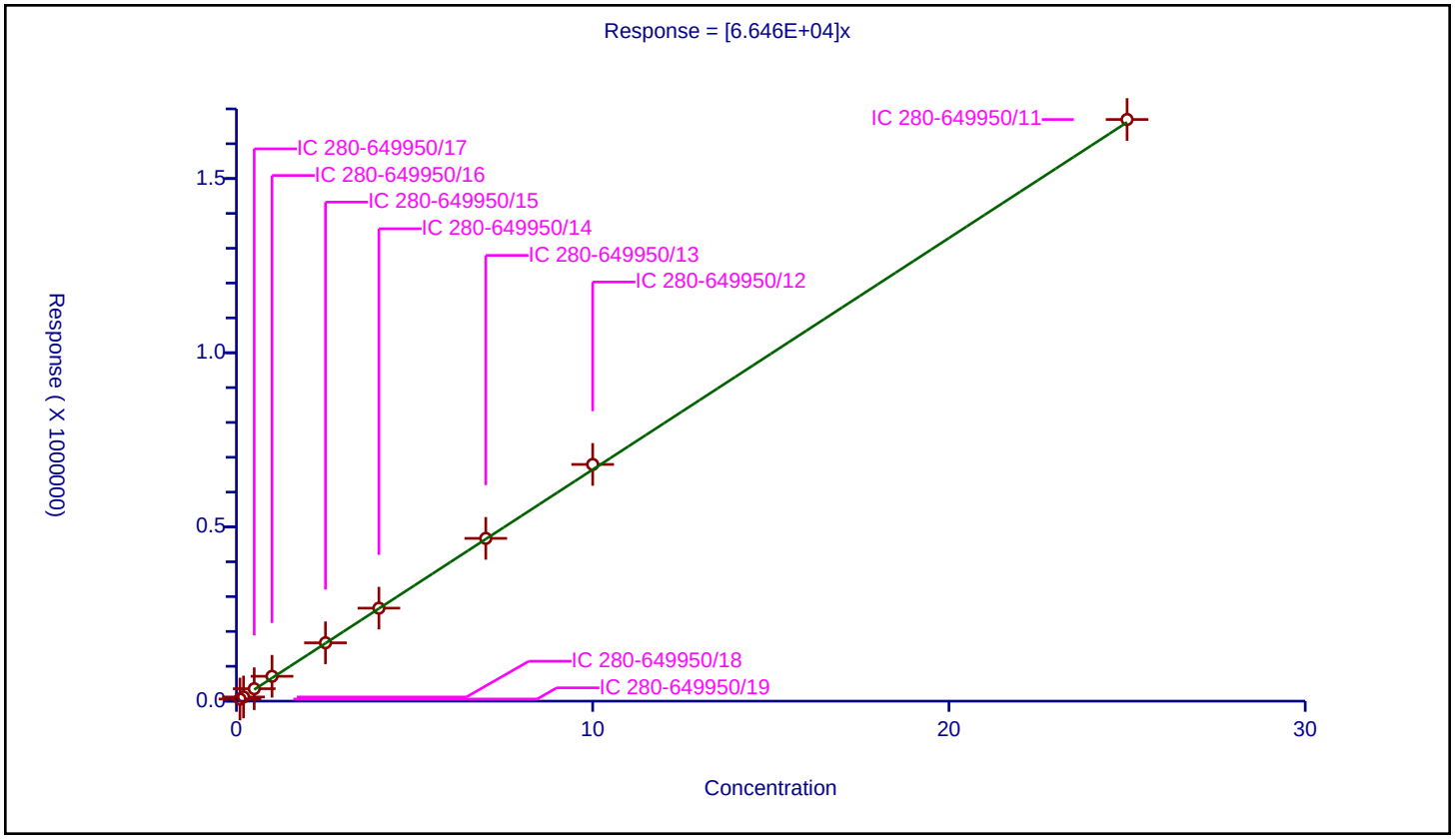
Curve Coefficients

Intercept:	0
Slope:	6.646E+04

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-649950/19	0.1	6048.0			60480.0	Y
2	IC 280-649950/18	0.2	11963.0			59815.0	Y
3	IC 280-649950/17	0.5	35657.0			71314.0	Y
4	IC 280-649950/16	1.0	71367.0			71367.0	Y
5	IC 280-649950/15	2.5	167486.0			66994.4	Y
6	IC 280-649950/14	4.0	266924.0			66731.0	Y
7	IC 280-649950/13	7.0	467214.0			66744.857143	Y
8	IC 280-649950/12	10.0	679445.0			67944.5	Y
9	IC 280-649950/11	25.0	1669606.0			66784.24	Y



Calibration / 2,4,6-Trinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

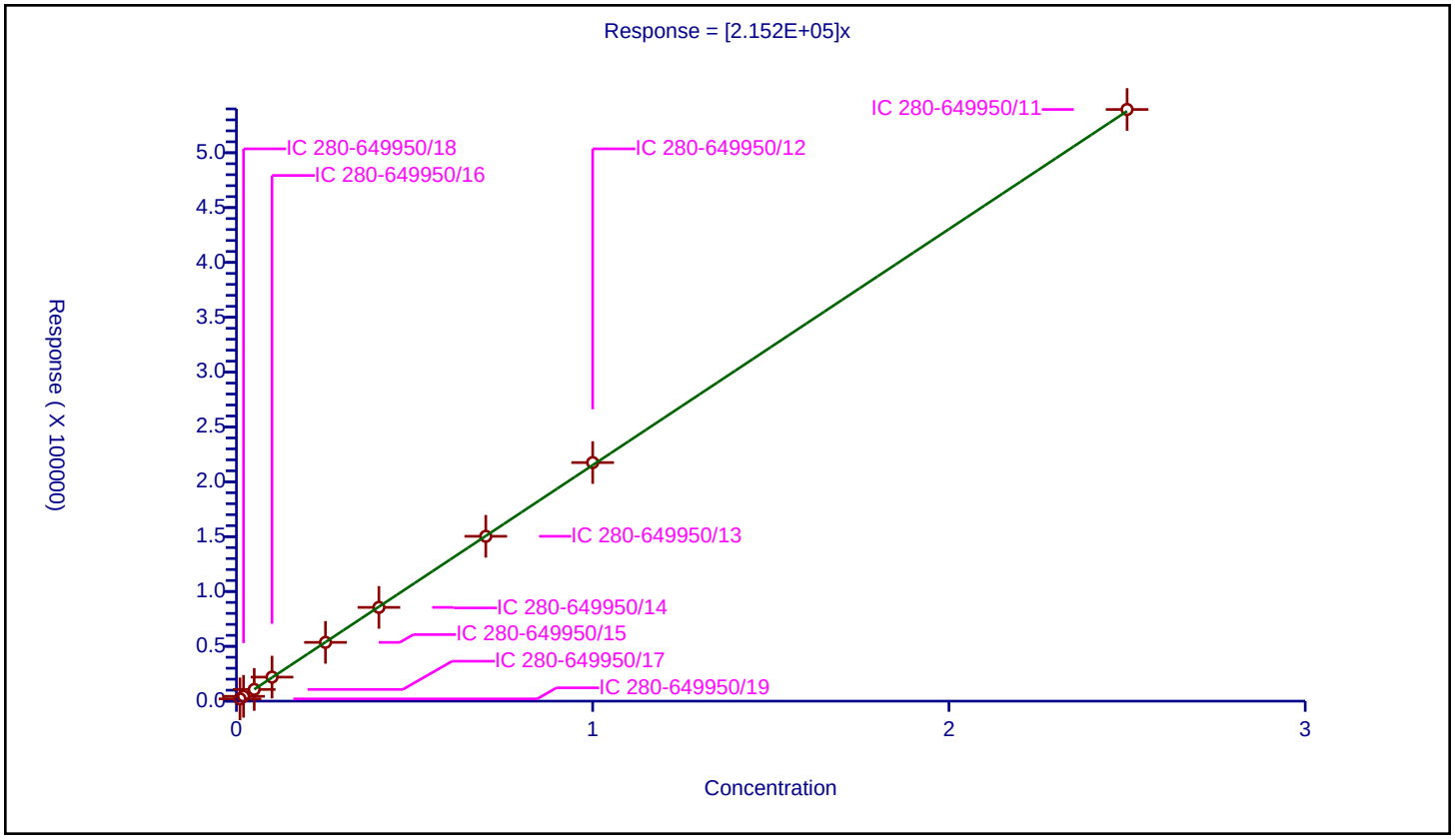
Curve Coefficients

Intercept:	0
Slope:	2.152E+05

Error Coefficients

Relative Standard Deviation:	1.7

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-649950/19	0.01	2081.0			208100.0	Y
2	IC 280-649950/18	0.02	4400.0			220000.0	Y
3	IC 280-649950/17	0.05	10669.0			213380.0	Y
4	IC 280-649950/16	0.1	21912.0			219120.0	Y
5	IC 280-649950/15	0.25	53593.0			214372.0	Y
6	IC 280-649950/14	0.4	85495.0			213737.5	Y
7	IC 280-649950/13	0.7	150301.0			214715.714286	Y
8	IC 280-649950/12	1.0	217516.0			217516.0	Y
9	IC 280-649950/11	2.5	539471.0			215788.4	Y



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Calibration / 4-Amino-2,6-dinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

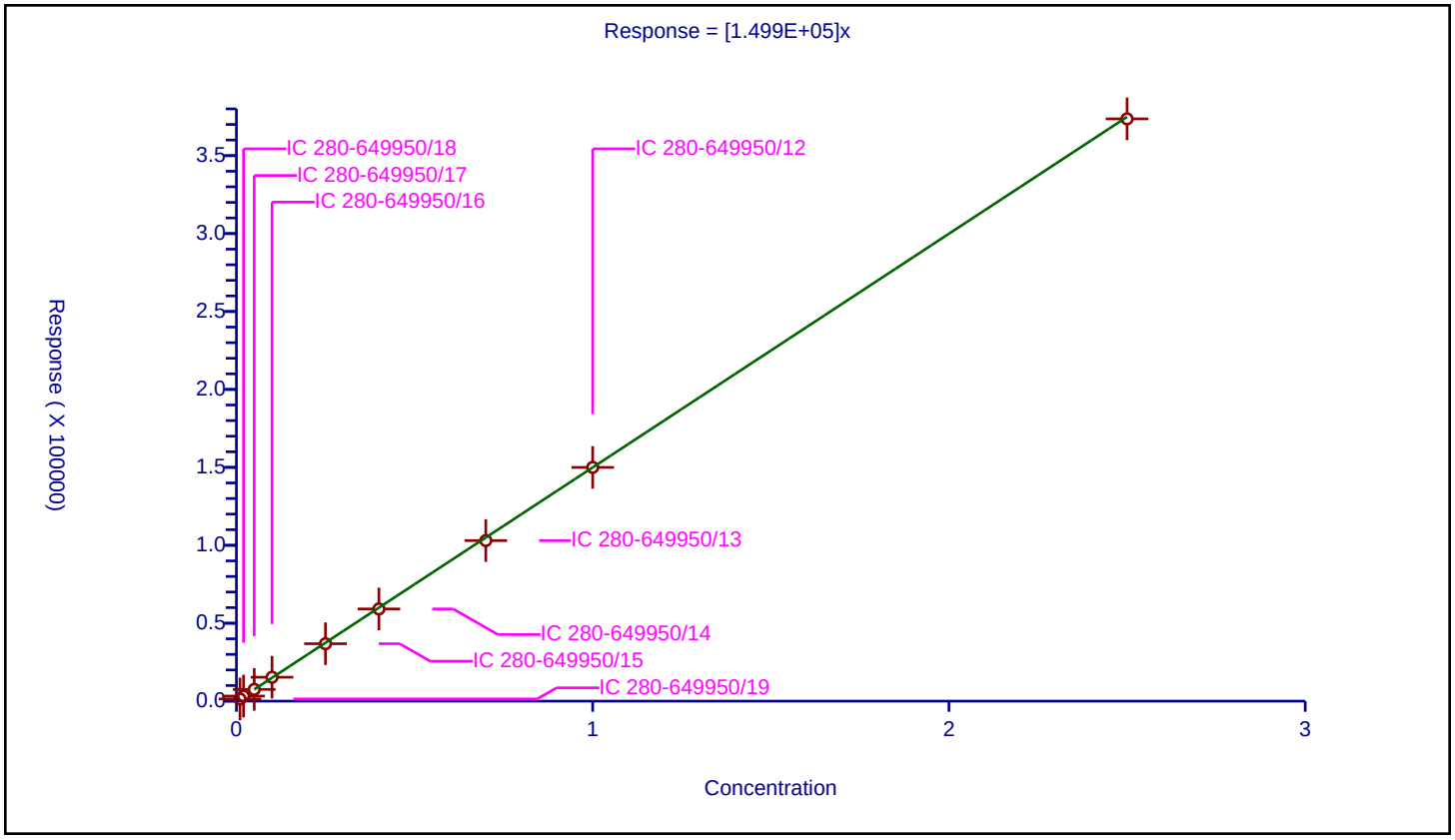
Curve Coefficients

Intercept:	0
Slope:	1.499E+05

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-649950/19	0.01	1406.0			140600.0	Y
2	IC 280-649950/18	0.02	3261.0			163050.0	Y
3	IC 280-649950/17	0.05	7533.0			150660.0	Y
4	IC 280-649950/16	0.1	15344.0			153440.0	Y
5	IC 280-649950/15	0.25	36831.0			147324.0	Y
6	IC 280-649950/14	0.4	59155.0			147887.5	Y
7	IC 280-649950/13	0.7	103016.0			147165.714286	Y
8	IC 280-649950/12	1.0	149965.0			149965.0	Y
9	IC 280-649950/11	2.5	373596.0			149438.4	Y



Calibration / 2-Amino-4,6-dinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

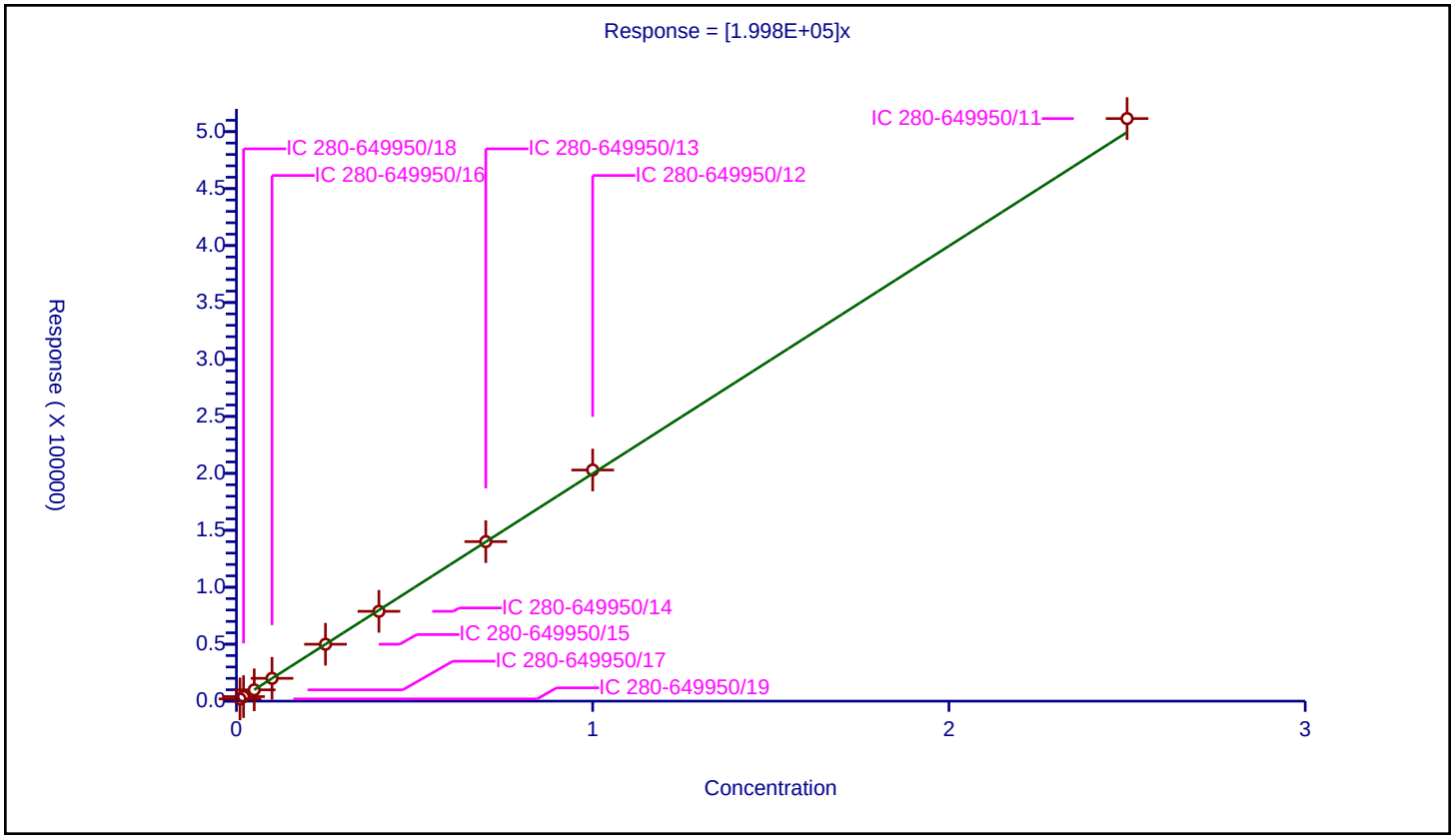
Curve Coefficients

Intercept:	0
Slope:	1.998E+05

Error Coefficients

Relative Standard Deviation:	1.4

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-649950/19	0.01	1951.0			195100.0	Y
2	IC 280-649950/18	0.02	3997.0			199850.0	Y
3	IC 280-649950/17	0.05	9923.0			198460.0	Y
4	IC 280-649950/16	0.1	20033.0			200330.0	Y
5	IC 280-649950/15	0.25	49951.0			199804.0	Y
6	IC 280-649950/14	0.4	78856.0			197140.0	Y
7	IC 280-649950/13	0.7	140054.0			200077.142857	Y
8	IC 280-649950/12	1.0	202927.0			202927.0	Y
9	IC 280-649950/11	2.5	511483.0			204593.2	Y



Calibration / 2,6-Dinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

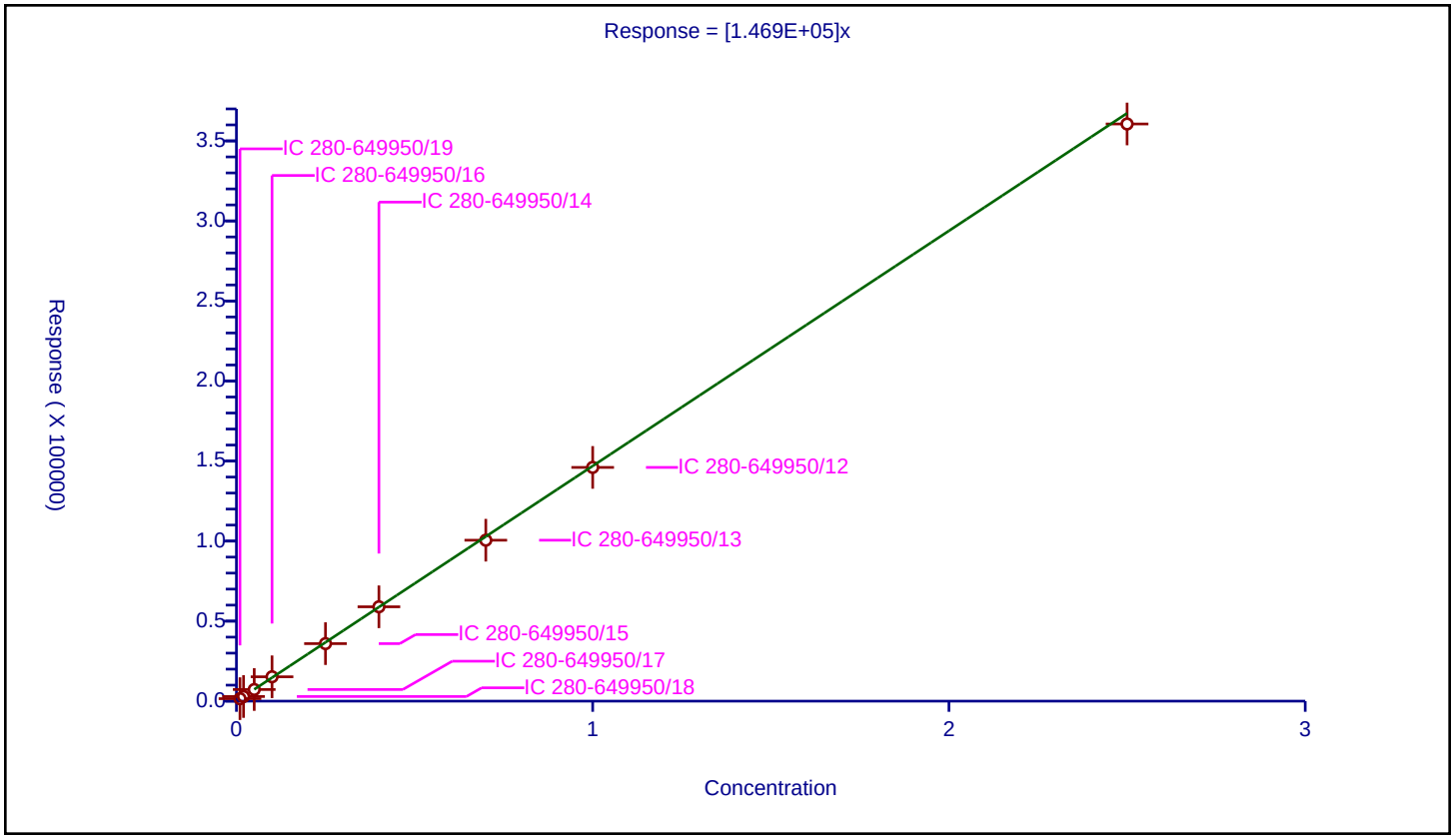
Curve Coefficients

Intercept:	0
Slope:	1.469E+05

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-649950/19	0.01	1557.0			155700.0	Y
2	IC 280-649950/18	0.02	2880.0			144000.0	Y
3	IC 280-649950/17	0.05	7267.0			145340.0	Y
4	IC 280-649950/16	0.1	15218.0			152180.0	Y
5	IC 280-649950/15	0.25	35939.0			143756.0	Y
6	IC 280-649950/14	0.4	58947.0			147367.5	Y
7	IC 280-649950/13	0.7	100540.0			143628.571429	Y
8	IC 280-649950/12	1.0	146021.0			146021.0	Y
9	IC 280-649950/11	2.5	360585.0			144234.0	Y



Calibration / 2,4-Dinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

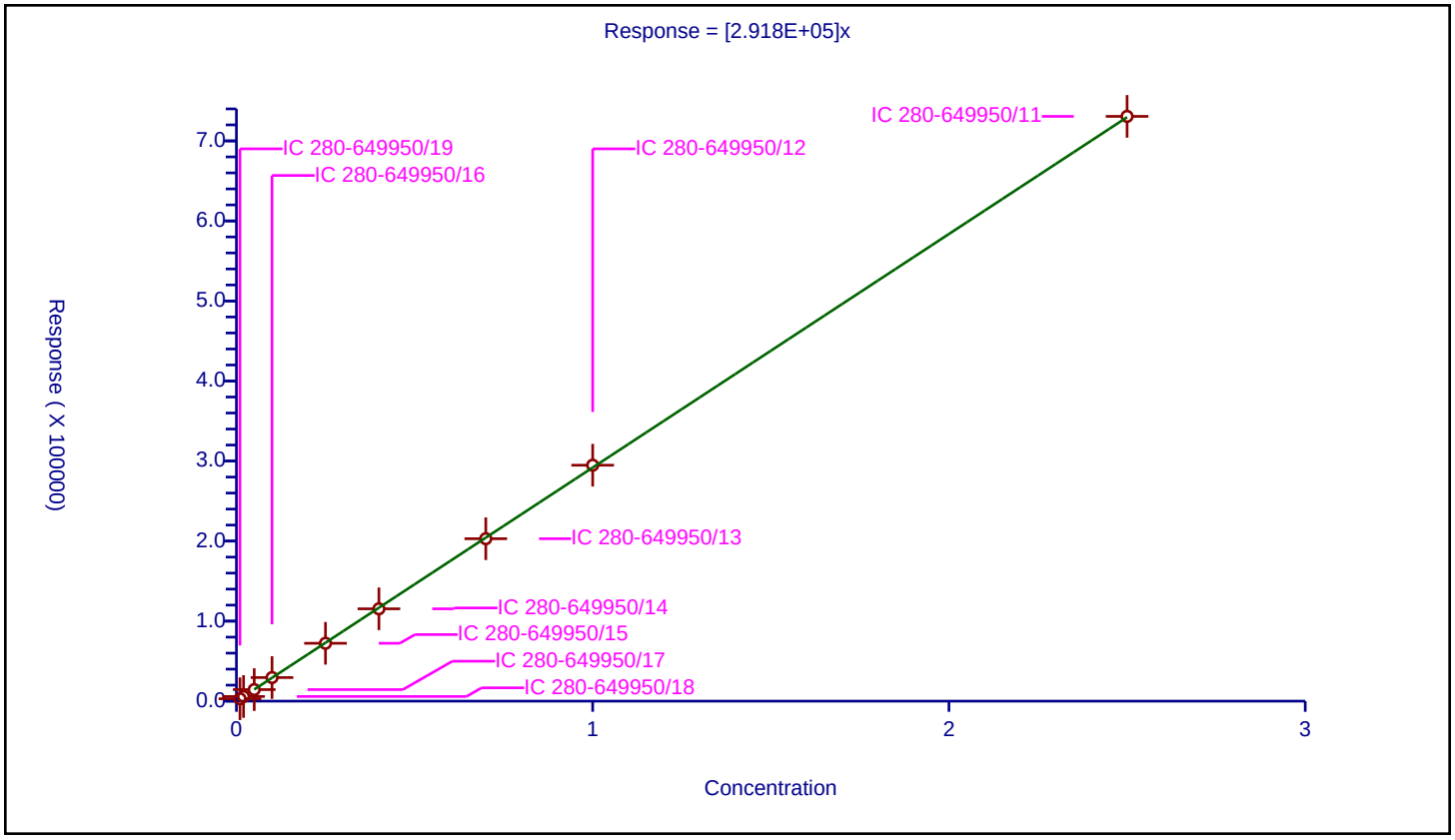
Curve Coefficients

Intercept:	0
Slope:	2.918E+05

Error Coefficients

Relative Standard Deviation:	1.3

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-649950/19	0.01	2993.0			299300.0	Y
2	IC 280-649950/18	0.02	5793.0			289650.0	Y
3	IC 280-649950/17	0.05	14425.0			288500.0	Y
4	IC 280-649950/16	0.1	29452.0			294520.0	Y
5	IC 280-649950/15	0.25	72314.0			289256.0	Y
6	IC 280-649950/14	0.4	115355.0			288387.5	Y
7	IC 280-649950/13	0.7	202952.0			289931.428571	Y
8	IC 280-649950/12	1.0	294790.0			294790.0	Y
9	IC 280-649950/11	2.5	730644.0			292257.6	Y



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Calibration / o-Nitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

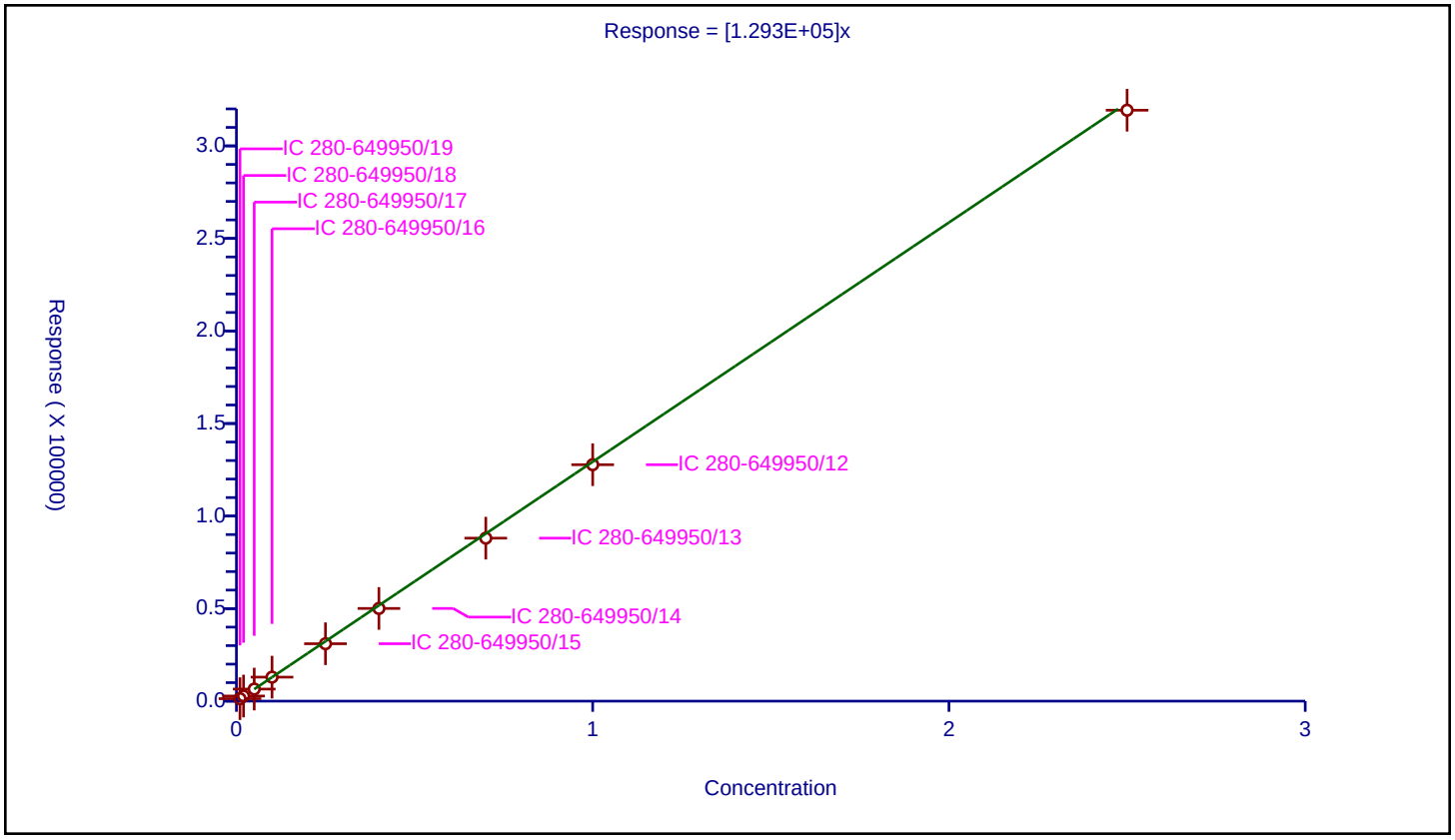
Curve Coefficients

Intercept:	0
Slope:	1.293E+05

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-649950/19	0.01	1340.0			134000.0	Y
2	IC 280-649950/18	0.02	2777.0			138850.0	Y
3	IC 280-649950/17	0.05	6526.0			130520.0	Y
4	IC 280-649950/16	0.1	12977.0			129770.0	Y
5	IC 280-649950/15	0.25	31023.0			124092.0	Y
6	IC 280-649950/14	0.4	50092.0			125230.0	Y
7	IC 280-649950/13	0.7	88069.0			125812.857143	Y
8	IC 280-649950/12	1.0	127758.0			127758.0	Y
9	IC 280-649950/11	2.5	319286.0			127714.4	Y



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Calibration / p-Nitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

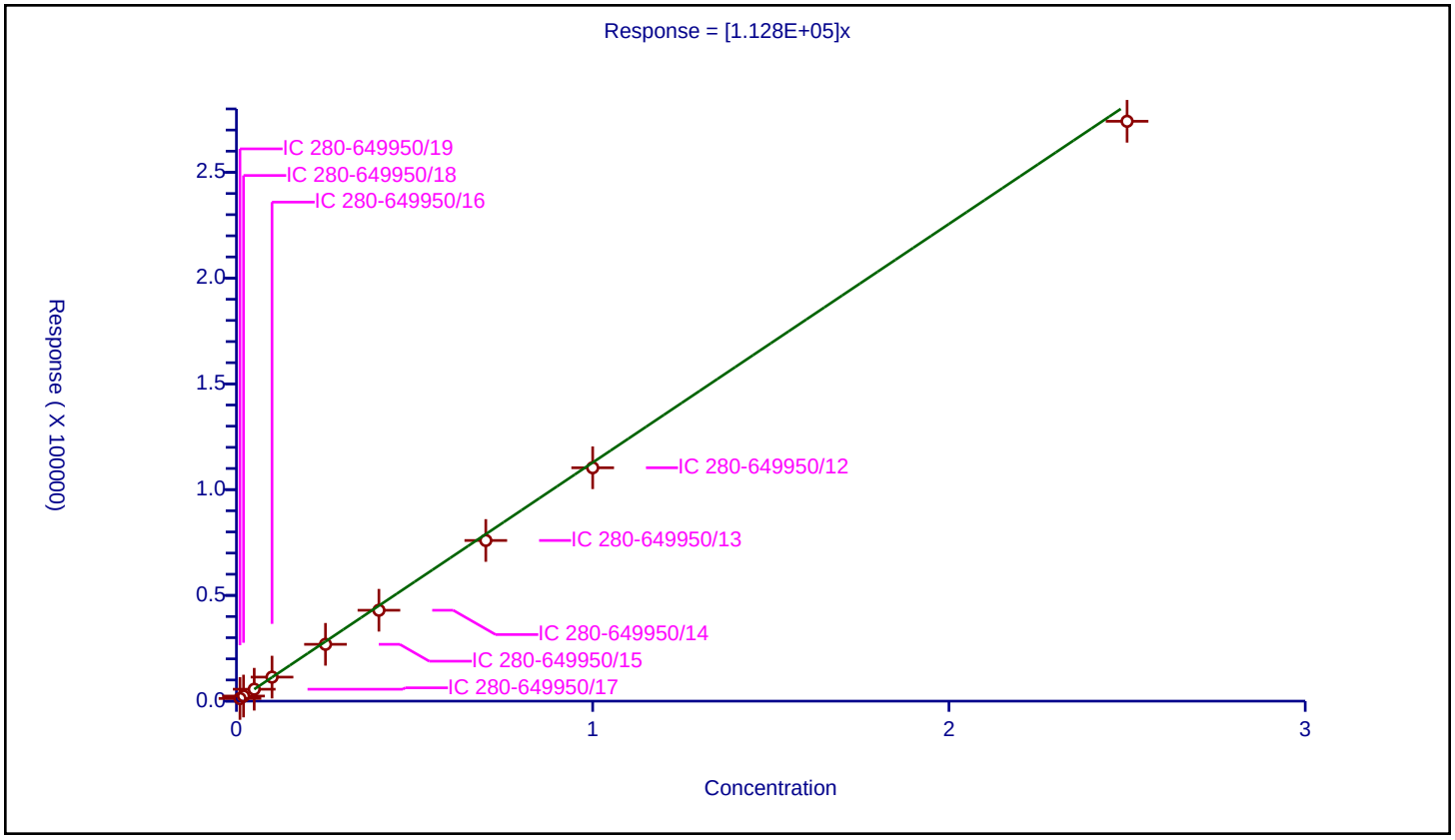
Curve Coefficients

Intercept:	0
Slope:	1.128E+05

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-649950/19	0.01	1249.0			124900.0	Y
2	IC 280-649950/18	0.02	2413.0			120650.0	Y
3	IC 280-649950/17	0.05	5631.0			112620.0	Y
4	IC 280-649950/16	0.1	11360.0			113600.0	Y
5	IC 280-649950/15	0.25	26871.0			107484.0	Y
6	IC 280-649950/14	0.4	42973.0			107432.5	Y
7	IC 280-649950/13	0.7	75957.0			108510.0	Y
8	IC 280-649950/12	1.0	110337.0			110337.0	Y
9	IC 280-649950/11	2.5	274145.0			109658.0	Y



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Calibration / m-Nitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

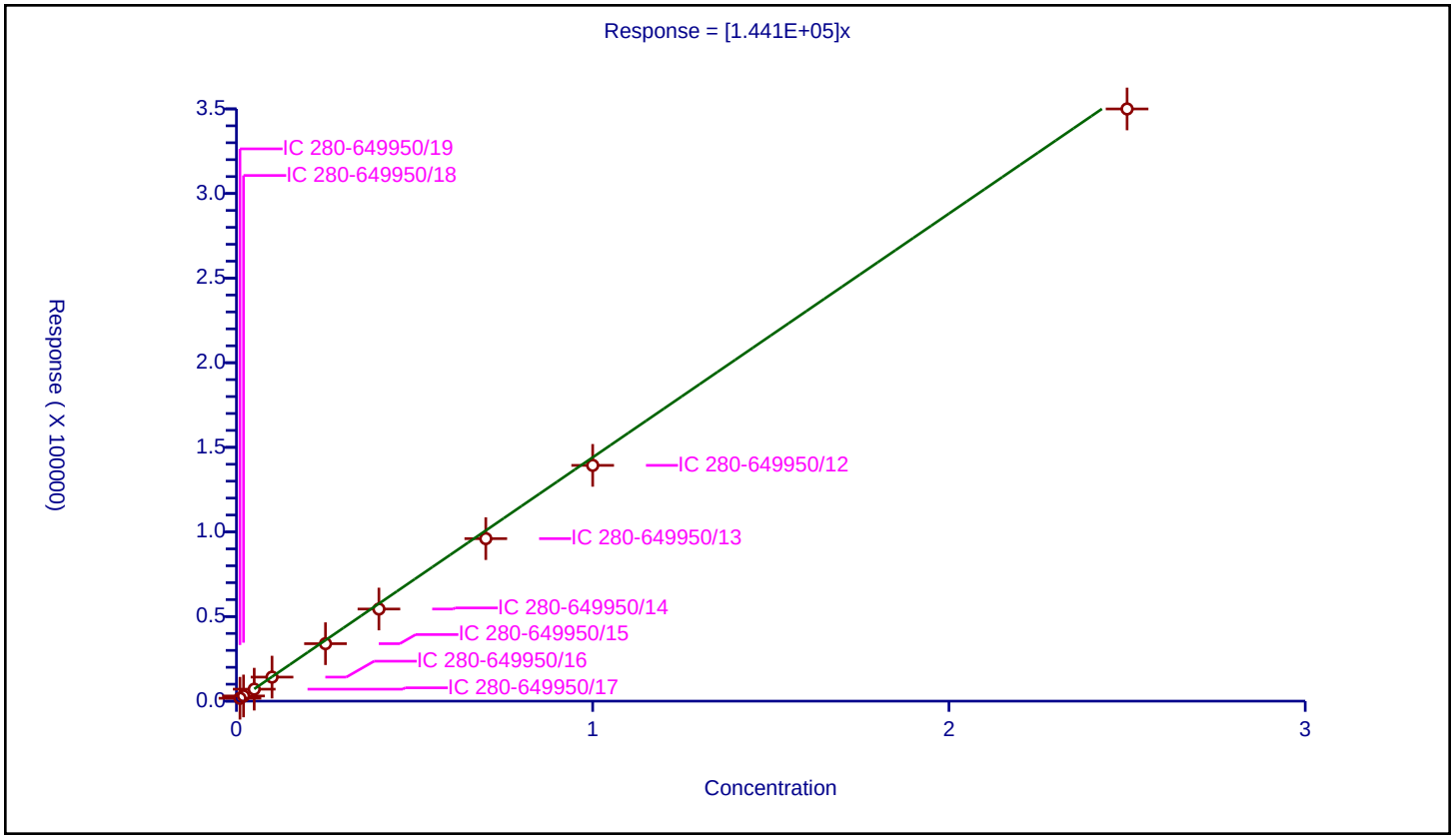
Curve Coefficients

Intercept:	0
Slope:	1.441E+05

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-649950/19	0.01	1713.0			171300.0	Y
2	IC 280-649950/18	0.02	3066.0			153300.0	Y
3	IC 280-649950/17	0.05	7074.0			141480.0	Y
4	IC 280-649950/16	0.1	14207.0			142070.0	Y
5	IC 280-649950/15	0.25	33952.0			135808.0	Y
6	IC 280-649950/14	0.4	54437.0			136092.5	Y
7	IC 280-649950/13	0.7	96036.0			137194.285714	Y
8	IC 280-649950/12	1.0	139336.0			139336.0	Y
9	IC 280-649950/11	2.5	349971.0			139988.4	Y



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Calibration / PETN

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

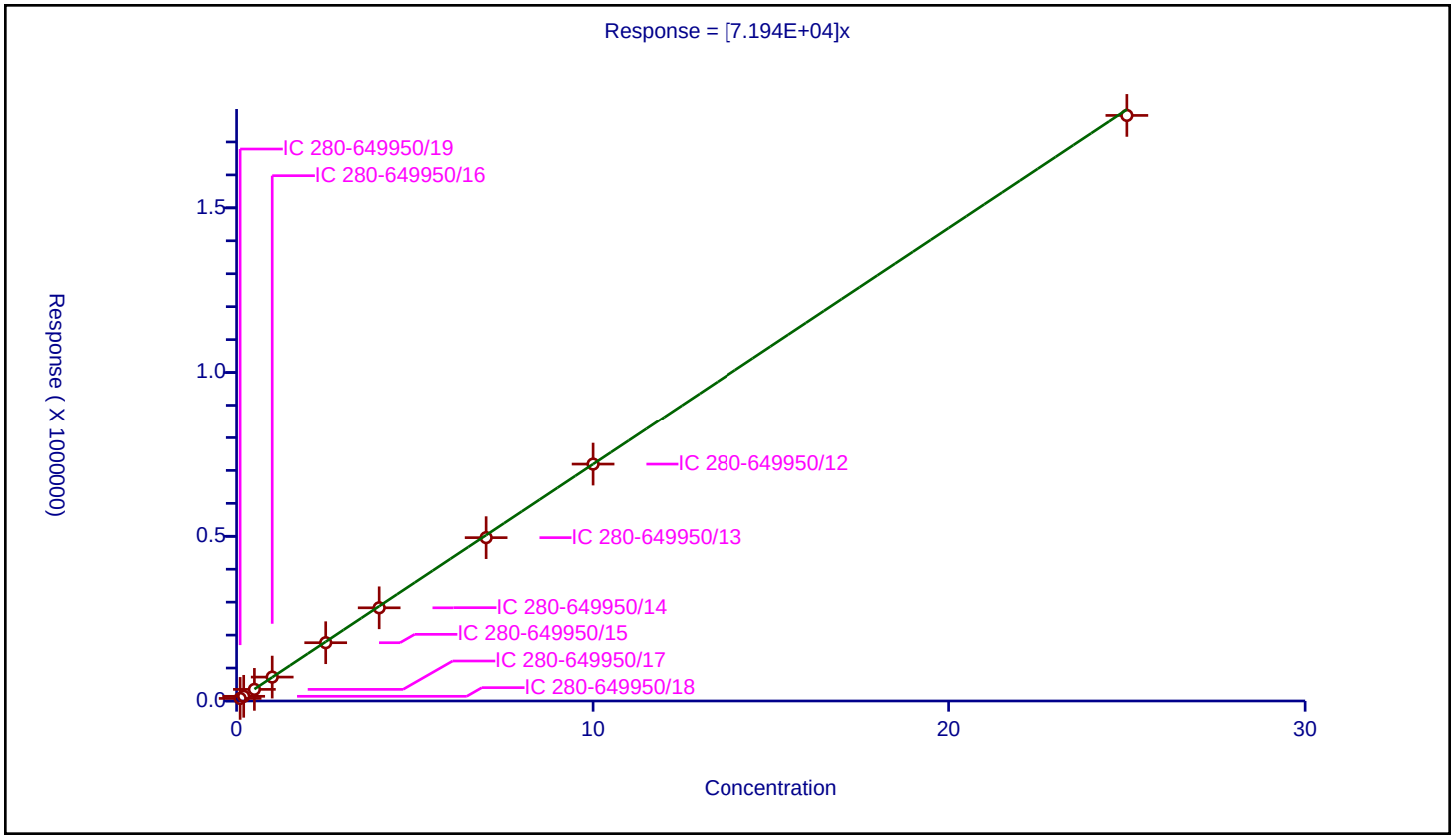
Curve Coefficients

Intercept:	0
Slope:	7.194E+04

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-649950/19	0.1	7807.0			78070.0	Y
2	IC 280-649950/18	0.2	14174.0			70870.0	Y
3	IC 280-649950/17	0.5	35216.0			70432.0	Y
4	IC 280-649950/16	1.0	72600.0			72600.0	Y
5	IC 280-649950/15	2.5	176891.0			70756.4	Y
6	IC 280-649950/14	4.0	282889.0			70722.25	Y
7	IC 280-649950/13	7.0	495856.0			70836.571429	Y
8	IC 280-649950/12	10.0	719241.0			71924.1	Y
9	IC 280-649950/11	25.0	1780535.0			71221.4	Y



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FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins Denver | Job No.: 280-191168-1 | Analy Batch No.: 647408

SDG No.:

Instrument ID: CHHPLC_X5 | GC Column: Luna-phenyl ID: 4.6(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2024 19:58 | Calibration End Date: 03/28/2024 00:38 | Calibration ID: 91606

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-647408/18	03270018.D
Level 2	IC 280-647408/17	03270017.D
Level 3	IC 280-647408/16	03270016.D
Level 4	IC 280-647408/15	03270015.D
Level 5	IC 280-647408/14	03270014.D
Level 6	IC 280-647408/13	03270013.D
Level 7	IC 280-647408/12	03270012.D
Level 8	IC 280-647408/11	03270011.D
Level 9	IC 280-647408/10	03270010.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
HMX	6.792	6.785	6.786	6.792	6.787	6.780	6.776	6.776	6.746		6.637 - 6.937	6.780
Picric acid	7.978	7.985	7.979	7.959	7.934	7.900	7.862	7.829	7.720		7.784 - 8.084	7.905
RDX	8.885	8.878	8.886	8.886	8.881	8.873	8.869	8.862	8.813		8.731 - 9.031	8.870
Nitrobenzene	11.558	11.558	11.566	11.566	11.554	11.546	11.542	11.535	11.493		11.404 - 11.704	11.546
3,5-Dinitroaniline	14.392	14.391	14.399	14.399	14.394	14.386	14.382	14.369	14.326		14.244 - 14.544	14.382
1,3-Dinitrobenzene	14.812	14.811	14.826	14.826	14.821	14.813	14.809	14.795	14.759		14.671 - 14.971	14.808
Nitroglycerin	15.072	15.071	15.079	15.079	15.074	15.066	15.062	15.049	15.026		14.924 - 15.224	15.064
2-Nitrotoluene	15.758	15.751	15.759	15.759	15.754	15.746	15.742	15.729	15.699		15.604 - 15.904	15.744
4-Nitrotoluene	16.012	16.018	16.026	16.026	16.021	16.013	16.002	15.995	15.959		15.871 - 16.171	16.008
4-Amino-2,6-dinitrotoluene	16.498	16.498	16.519	16.519	16.514	16.500	16.496	16.482	16.453		16.364 - 16.664	16.498
3-Nitrotoluene	16.878	16.878	16.886	16.892	16.881	16.866	16.862	16.855	16.826		16.731 - 17.031	16.869
2-Amino-4,6-dinitrotoluene	17.372	17.384	17.399	17.399	17.394	17.380	17.376	17.362	17.333		17.244 - 17.544	17.378
1,3,5-Trinitrobenzene	17.812	17.804	17.819	17.819	17.807	17.800	17.796	17.789	17.766		17.657 - 17.957	17.801
2,6-Dinitrotoluene	18.818	18.811	18.826	18.832	18.827	18.813	18.809	18.795	18.773		18.677 - 18.977	18.812
2,4-Dinitrotoluene	19.298	19.311	19.312	19.319	19.314	19.306	19.302	19.282	19.259		19.164 - 19.464	19.300
Tetryl	22.725	22.725	22.739	22.746	22.741	22.733	22.722	22.709	22.686		22.591 - 22.891	22.725
2,4,6-Trinitrotoluene	23.692	23.705	23.706	23.712	23.707	23.700	23.696	23.676	23.660		23.557 - 23.857	23.695
PETN	24.825	24.685	24.686	24.692	24.687	24.680	24.669	24.649	24.640		24.537 - 24.837	24.690
1,2-Dinitrobenzene	12.578	12.578	12.586	12.586	12.581	12.573	12.569	12.555	12.519		12.431 - 12.731	12.569

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-191168-1 Analy Batch No.: 647408

SDG No.:

Instrument ID: CHHPLC_X5 GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2024 19:58 Calibration End Date: 03/28/2024 00:38 Calibration ID: 91606

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-647408/18	03270018.D
Level 2	IC 280-647408/17	03270017.D
Level 3	IC 280-647408/16	03270016.D
Level 4	IC 280-647408/15	03270015.D
Level 5	IC 280-647408/14	03270014.D
Level 6	IC 280-647408/13	03270013.D
Level 7	IC 280-647408/12	03270012.D
Level 8	IC 280-647408/11	03270011.D
Level 9	IC 280-647408/10	03270010.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
HMX	253600 178576 178724	210600 179675	187120 175606	185210 176039	Ave		191683.346				13.4		20.0			
Picric acid	168700 146368 150000	149450 146663	151540 145471	149350 146238	Ave		150420.037				4.8		20.0			
RDX	236800 204796 206088	239950 205348	213060 202331	210660 203312	Ave		213593.925				6.8		20.0			
Nitrobenzene	411300 364912 376028	390750 370663	376560 366150	375790 367527	Ave		377742.211				3.9		20.0			
3,5-Dinitroaniline	442500 441216 439684	418300 443008	452440 435431	450830 435844	Lin2	-50.938523	440988.605							0.9990		0.9900
1,3-Dinitrobenzene	531200 611432 602033	579400 618725	609240 601600	631690 599978	Ave		598366.467				4.8		20.0			
Nitroglycerin	125370 132075 132712	148120 135788	139970 133151	139113 132211	Ave		135389.835				4.7		20.0			
2-Nitrotoluene	261200 250920 237708	268250 245000	243220 241149	239700 239038	Ave		247353.841				4.3		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-191168-1 Analy Batch No.: 647408

SDG No.:

Instrument ID: CHHPLC_X5 GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2024 19:58 Calibration End Date: 03/28/2024 00:38 Calibration ID: 91606

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
4-Nitrotoluene	304900 221044 219752	270450 221805	229980 218320	220830 212404	Lin2	916.184358	216224.969							0.9990		0.9900
4-Amino-2,6-dinitrotoluene	356400 281540 275792	342050 282180	291760 277401	285350 274352	Lin2	878.402026	277835.425							0.9990		0.9900
3-Nitrotoluene	447900 278012 273901	350650 276580	298180 273564	285700 268594	Lin2	1747.31496	269140.538							1.0000		0.9900
2-Amino-4,6-dinitrotoluene	475100 396684 397012	486350 397985	420200 395076	410300 391883	Lin2	963.350593	398688.925							0.9980		0.9900
1,3,5-Trinitrobenzene	437600 409628 414341	496800 414988	443840 415713	426790 407003	Ave		429633.573				6.6		20.0			
2,6-Dinitrotoluene	271600 277536 275752	261150 274760	269860 278736	275560 270529	Ave		272831.457				2.0		20.0			
2,4-Dinitrotoluene	545500 552684 552028	549950 548203	540320 545894	541960 542165	Ave		546522.687				0.8		20.0			
Tetryl	369000 328732 333232	346250 330055	331380 327494	331100 328904	Ave		336238.587				4.0		20.0			
2,4,6-Trinitrotoluene	453400 409840 415288	420800 412215	407920 406460	413330 408906	Ave		416462.111				3.5		20.0			
PETN	89820 128835 134788	105930 131269	113402 131115	125929 132355	Lin2	-4400.5935	130750.946							0.9990		0.9900
1,2-Dinitrobenzene	303200 255328 259343	272300 257463	261300 254114	259500 254825	Ave		264152.554				5.9		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver | Job No.: 280-191168-1 | Analy Batch No.: 647408

SDG No.:

Instrument ID: CHHPLC_X5 | GC Column: Luna-pheny ID: 4.6(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2024 19:58 | Calibration End Date: 03/28/2024 00:38 | Calibration ID: 91606

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-647408/18	03270018.D
Level 2	IC 280-647408/17	03270017.D
Level 3	IC 280-647408/16	03270016.D
Level 4	IC 280-647408/15	03270015.D
Level 5	IC 280-647408/14	03270014.D
Level 6	IC 280-647408/13	03270013.D
Level 7	IC 280-647408/12	03270012.D
Level 8	IC 280-647408/11	03270011.D
Level 9	IC 280-647408/10	03270010.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
HMX	Ave	2536 71870	4212 122924	9356 176039	18521 446811	44644	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
Picric acid	Ave	1687 58665	2989 101830	7577 146238	14935 375001	36592	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
RDX	Ave	2368 82139	4799 141632	10653 203312	21066 515221	51199	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
Nitrobenzene	Ave	4113 148265	7815 256305	18828 367527	37579 940071	91228	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
3,5-Dinitroaniline	Lin2	4425 177203	8366 304802	22622 435844	45083 1099211	110304	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
1,3-Dinitrobenzene	Ave	5312 247490	11588 421120	30462 599978	63169 1505083	152858	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
Nitroglycerin	Ave	12537 543150	29624 932056	69985 1322106	139113 3317794	330187	0.100 4.00	0.200 7.00	0.500 10.0	1.00 25.0	2.50
2-Nitrotoluene	Ave	2612 98000	5365 168804	12161 239038	23970 594270	62730	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
4-Nitrotoluene	Lin2	3049 88722	5409 152824	11499 212404	22083 549379	55261	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
4-Amino-2,6-dinitrotoluene	Lin2	3564 112872	6841 194181	14588 274352	28535 689480	70385	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
3-Nitrotoluene	Lin2	4479 110632	7013 191495	14909 268594	28570 684753	69503	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
2-Amino-4,6-dinitrotoluene	Lin2	4751 159194	9727 276553	21010 391883	41030 992531	99171	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
1,3,5-Trinitrobenzene	Ave	4376 165995	9936 290999	22192 407003	42679 1035852	102407	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
2,6-Dinitrotoluene	Ave	2716 109904	5223 195115	13493 270529	27556 689381	69384	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
2,4-Dinitrotoluene	Ave	5455	10999	27016	54196	138171	0.0100	0.0200	0.0500	0.100	0.250

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver | Job No.: 280-191168-1 | Analy Batch No.: 647408

SDG No.:

Instrument ID: CHHPLC_X5 | GC Column: Luna-pheny ID: 4.6(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2024 19:58 | Calibration End Date: 03/28/2024 00:38 | Calibration ID: 91606

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
		219281	382126	542165	1380071		0.400	0.700	1.00	2.50	
Tetryl	Ave	3690 132022	6925 229246	16569 328904	33110 833080	82183	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
2,4,6-Trinitrotoluene	Ave	4534 164886	8416 284522	20396 408906	41333 1038220	102460	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
PETN	Lin2	8982 525075	21186 917804	56701 1323551	125929 3369705	322087	0.100 4.00	0.200 7.00	0.500 10.0	1.00 25.0	2.50
1,2-Dinitrobenzene	Ave	3032 102985	5446 177880	13065 254825	25950 648358	63832	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250

Curve Type Legend:
Ave = Average
Lin2 = Linear 1/conc^2

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270010.D
Lims ID: IC INT 9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 27-Mar-2024 19:58:57 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 9
Operator ID: JZ/JG Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub7

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 28-Mar-2024 14:09:24 Calib Date: 28-Mar-2024 05:53:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1687

First Level Reviewer: LV5D Date: 28-Mar-2024 11:16:57

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 HMX	1	6.746	6.787	-0.041	446811	2.50	2.33	
7 2,4,6-Trinitrophenol	1	7.720	7.934	-0.214	375001	2.50	2.49	a
8 RDX	1	8.813	8.881	-0.068	515221	2.50	2.41	
9 Nitrobenzene	1	11.493	11.554	-0.061	940071	2.50	2.49	
$ 10 1,2-Dinitrobenzene	1	12.519	12.581	-0.062	648358	2.50	2.45	
11 3,5-Dinitroaniline	1	14.326	14.394	-0.068	1099211	2.50	2.49	
12 1,3-Dinitrobenzene	1	14.759	14.821	-0.062	1505083	2.50	2.52	
13 Nitroglycerin	2	15.026	15.074	-0.048	3317794	25.0	24.5	M
14 o-Nitrotoluene	1	15.699	15.754	-0.055	594270	2.50	2.40	
16 p-Nitrotoluene	1	15.959	16.021	-0.062	549379	2.50	2.54	
17 4-Amino-2,6-dinitrotoluene	1	16.453	16.514	-0.061	689480	2.50	2.48	
18 m-Nitrotoluene	1	16.826	16.881	-0.055	684753	2.50	2.54	
19 2-Amino-4,6-dinitrotoluene	1	17.333	17.394	-0.061	992531	2.50	2.49	
20 1,3,5-Trinitrobenzene	1	17.766	17.807	-0.041	1035852	2.50	2.41	
21 2,6-Dinitrotoluene	1	18.773	18.827	-0.054	689381	2.50	2.53	
22 2,4-Dinitrotoluene	1	19.259	19.314	-0.055	1380071	2.50	2.53	
23 Tetryl	1	22.686	22.741	-0.055	833080	2.50	2.48	
24 2,4,6-Trinitrotoluene	1	23.660	23.707	-0.047	1038220	2.50	2.49	
25 PETN	2	24.640	24.687	-0.047	3369705	25.0	25.8	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

8330IntermStk_00079 Amount Added: 250.00 Units: uL

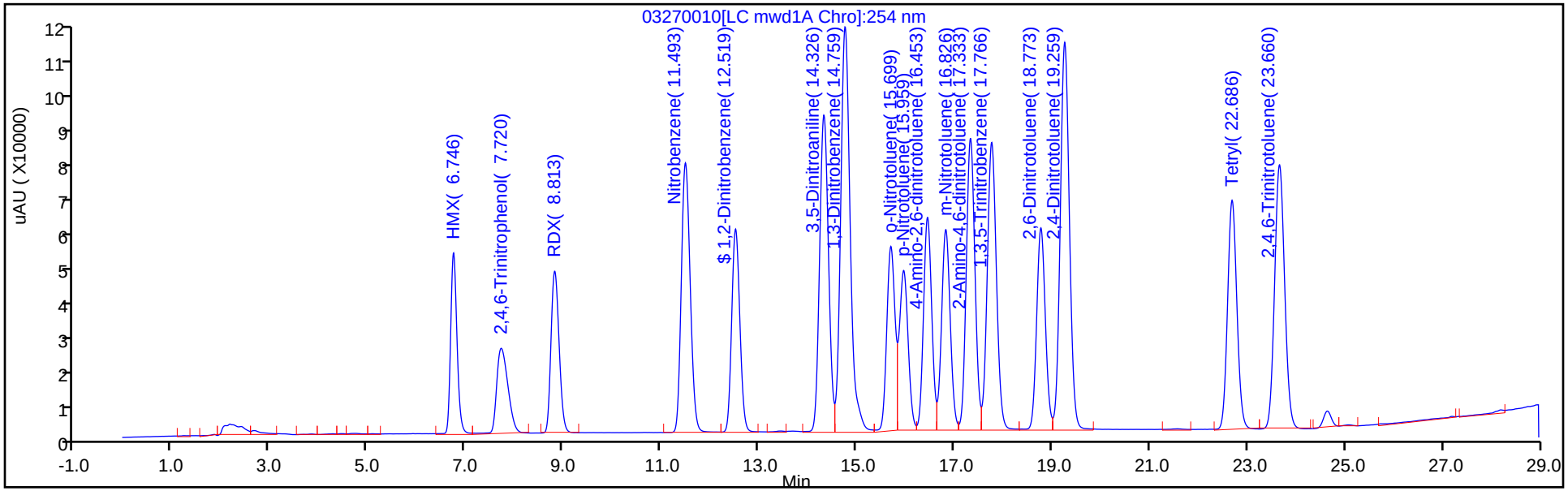
Report Date: 28-Mar-2024 14:09:24 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Denver

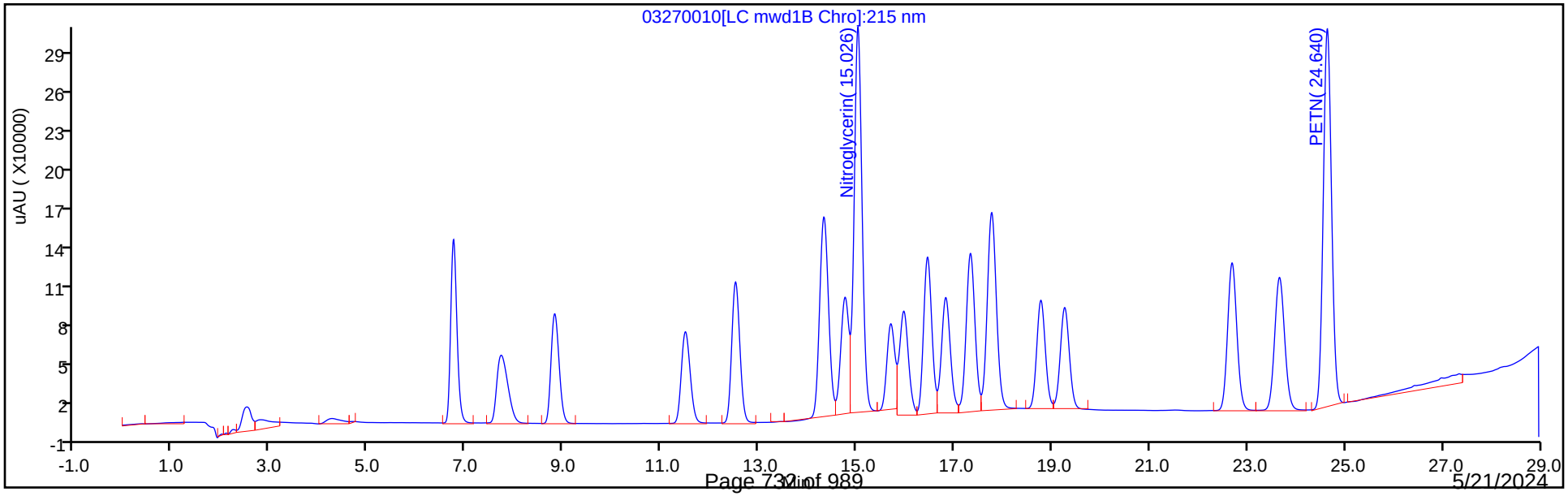
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270010.D

Injection Date:	27-Mar-2024 19:58:57	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	IC INT 9			Worklist Smp#:	10
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

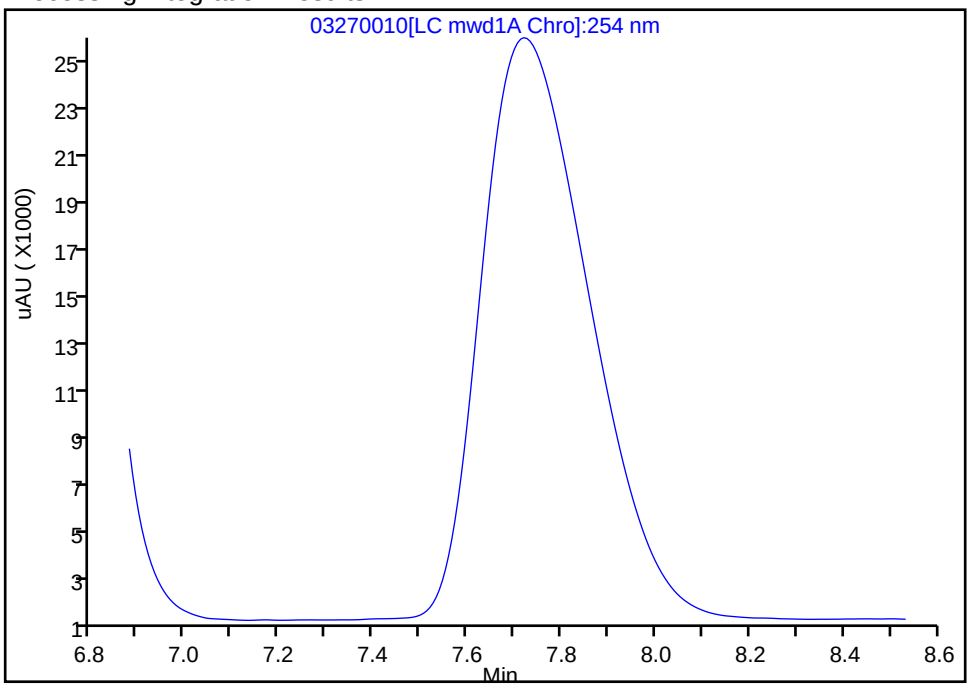
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270010.D				
Injection Date:	27-Mar-2024 19:58:57	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 9				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

7 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

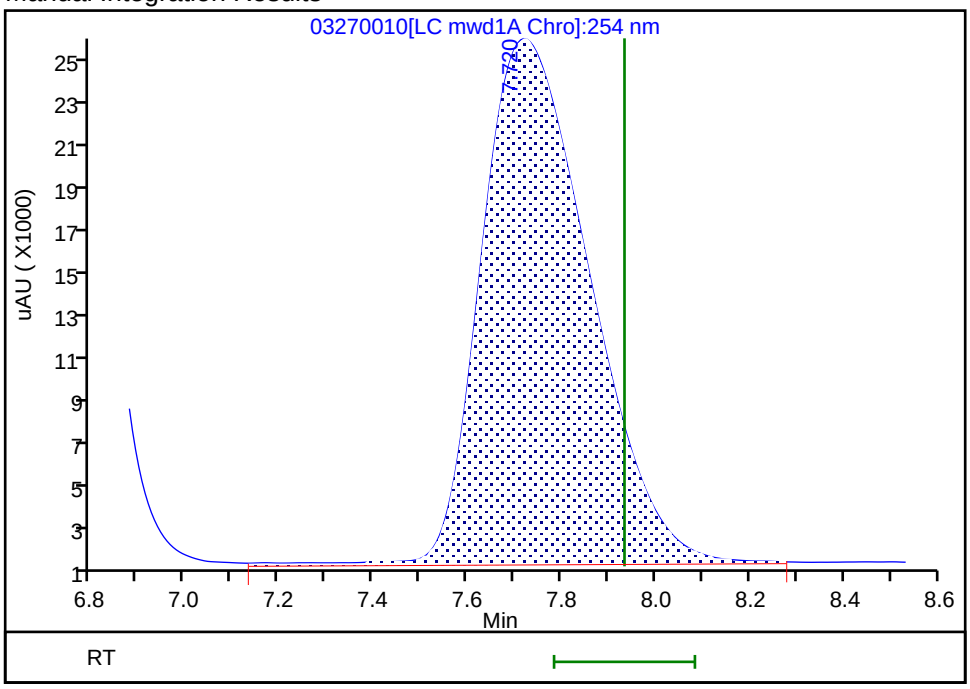
Not Detected
Expected RT: 7.93

Processing Integration Results



Manual Integration Results

RT: 7.72
Area: 375001
Amount: 2.493026
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:16:55 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Denver

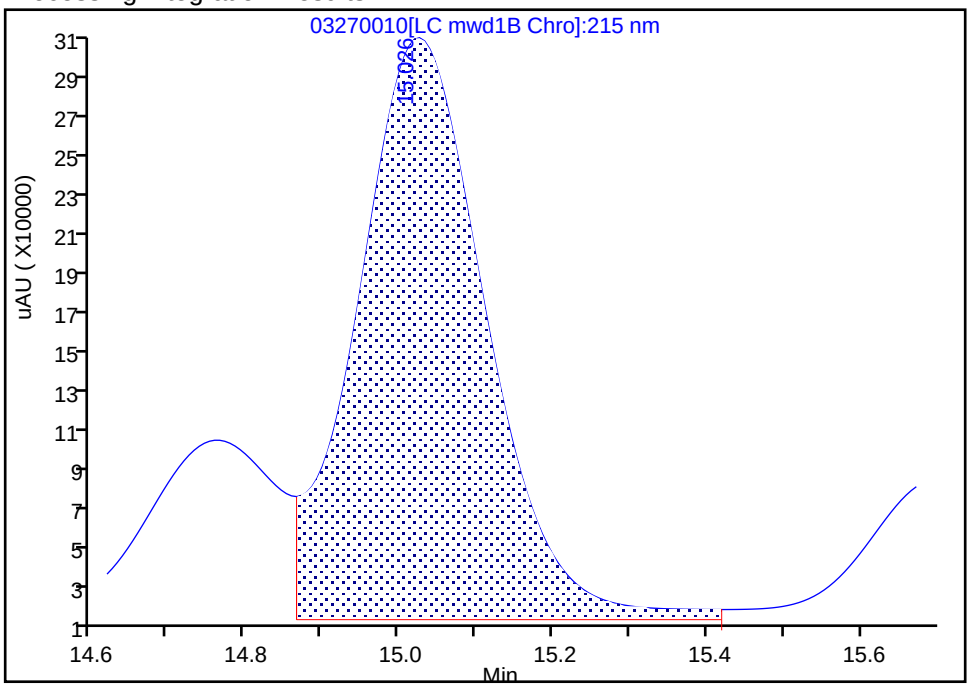
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270010.D				
Injection Date:	27-Mar-2024 19:58:57	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 9				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1B, 215 nm		

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

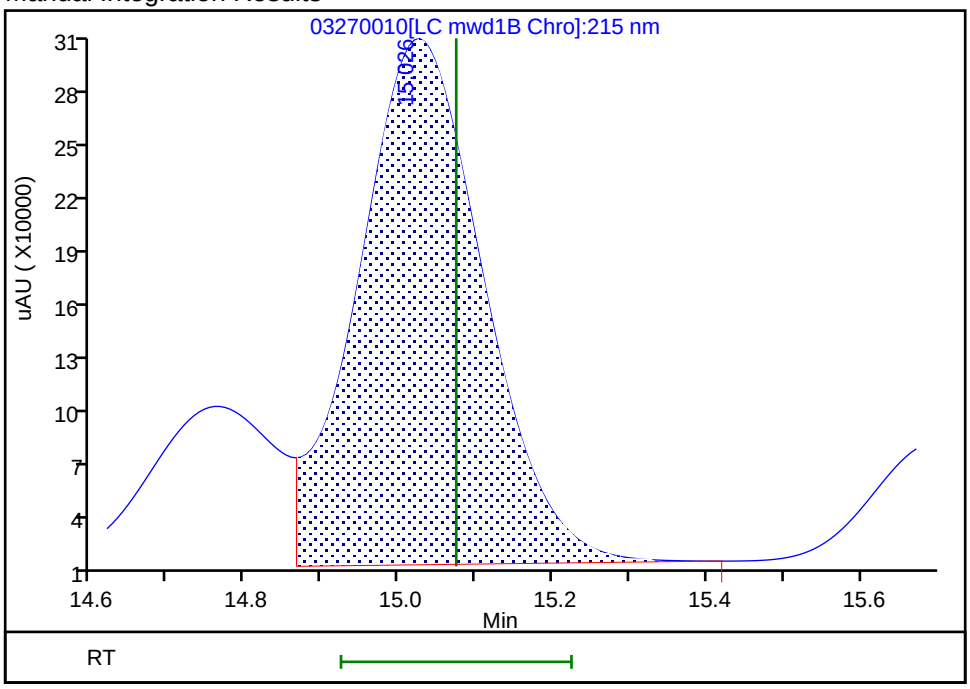
Processing Integration Results

RT: 15.03
Area: 3446477
Amount: 12.481393
Amount Units: ug/ml



Manual Integration Results

RT: 15.03
Area: 3317794
Amount: 24.505488
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:35:19 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270011.D
Lims ID: IC INT 8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 27-Mar-2024 20:33:55 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 8
Operator ID: JZ/JG Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub7

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 28-Mar-2024 14:09:24 Calib Date: 28-Mar-2024 05:53:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1687

First Level Reviewer: LV5D Date: 28-Mar-2024 11:35:38

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 HMX	1	6.776	6.787	-0.011	176039	1.00	0.9184	
7 2,4,6-Trinitrophenol	1	7.829	7.934	-0.105	146238	1.00	0.9722	
8 RDX	1	8.862	8.881	-0.019	203312	1.00	0.9519	
9 Nitrobenzene	1	11.535	11.554	-0.019	367527	1.00	0.9730	
$ 10 1,2-Dinitrobenzene	1	12.555	12.581	-0.026	254825	1.00	0.9647	
11 3,5-Dinitroaniline	1	14.369	14.394	-0.025	435844	1.00	0.9884	
12 1,3-Dinitrobenzene	1	14.795	14.821	-0.026	599978	1.00	1.00	
13 Nitroglycerin	2	15.049	15.074	-0.025	1322106	10.0	9.77	M
14 o-Nitrotoluene	1	15.729	15.754	-0.025	239038	1.00	0.9664	
16 p-Nitrotoluene	1	15.995	16.021	-0.026	212404	1.00	0.9781	
17 4-Amino-2,6-dinitrotoluene	1	16.482	16.514	-0.032	274352	1.00	0.9843	
18 m-Nitrotoluene	1	16.855	16.881	-0.026	268594	1.00	0.99	
19 2-Amino-4,6-dinitrotoluene	1	17.362	17.394	-0.032	391883	1.00	0.9805	
20 1,3,5-Trinitrobenzene	1	17.789	17.807	-0.018	407003	1.00	0.9473	
21 2,6-Dinitrotoluene	1	18.795	18.827	-0.032	270529	1.00	0.99	
22 2,4-Dinitrotoluene	1	19.282	19.314	-0.032	542165	1.00	0.99	
23 Tetryl	1	22.709	22.741	-0.032	328904	1.00	0.9782	
24 2,4,6-Trinitrotoluene	1	23.676	23.707	-0.031	408906	1.00	0.9819	
25 PETN	2	24.649	24.687	-0.038	1323551	10.0	10.2	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00079 Amount Added: 100.00 Units: uL

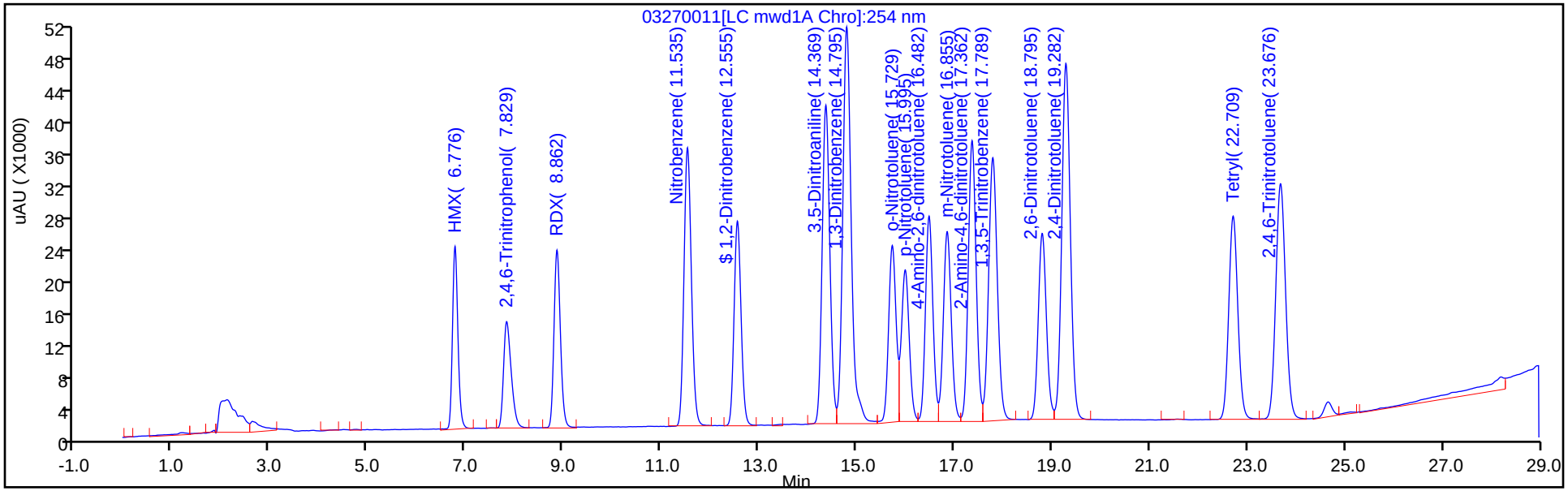
Report Date: 28-Mar-2024 14:09:25 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Denver

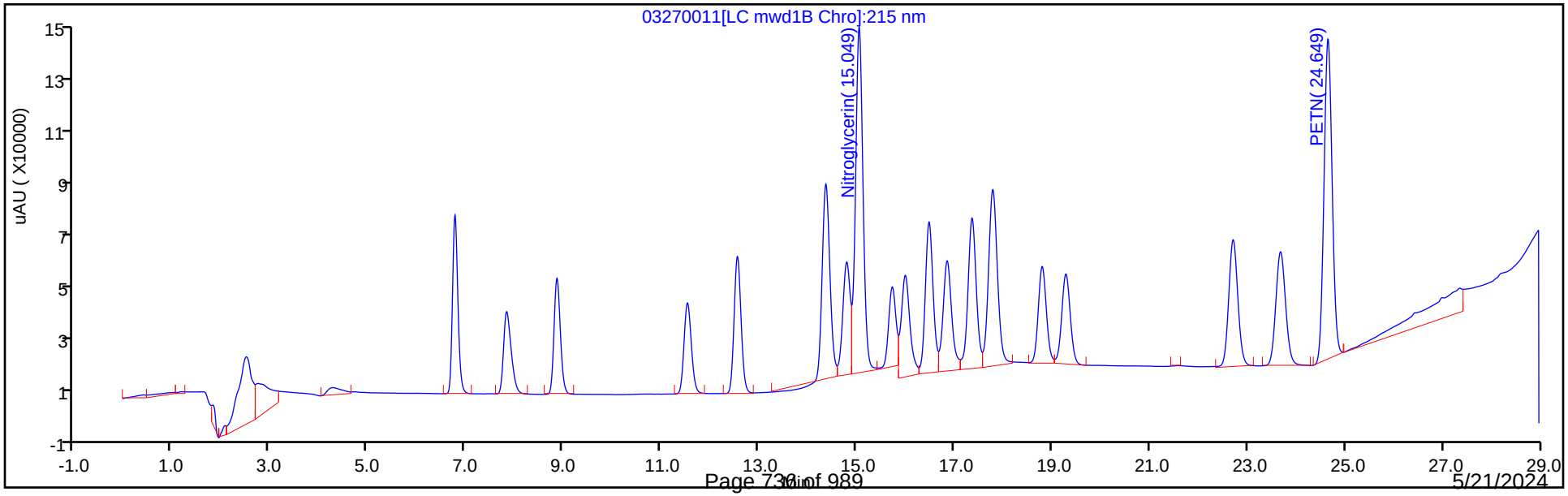
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270011.D

Injection Date:	27-Mar-2024 20:33:55	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	IC INT 8			Worklist Smp#:	11
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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Manual Integration/User Assign Peak Report

Eurofins Denver

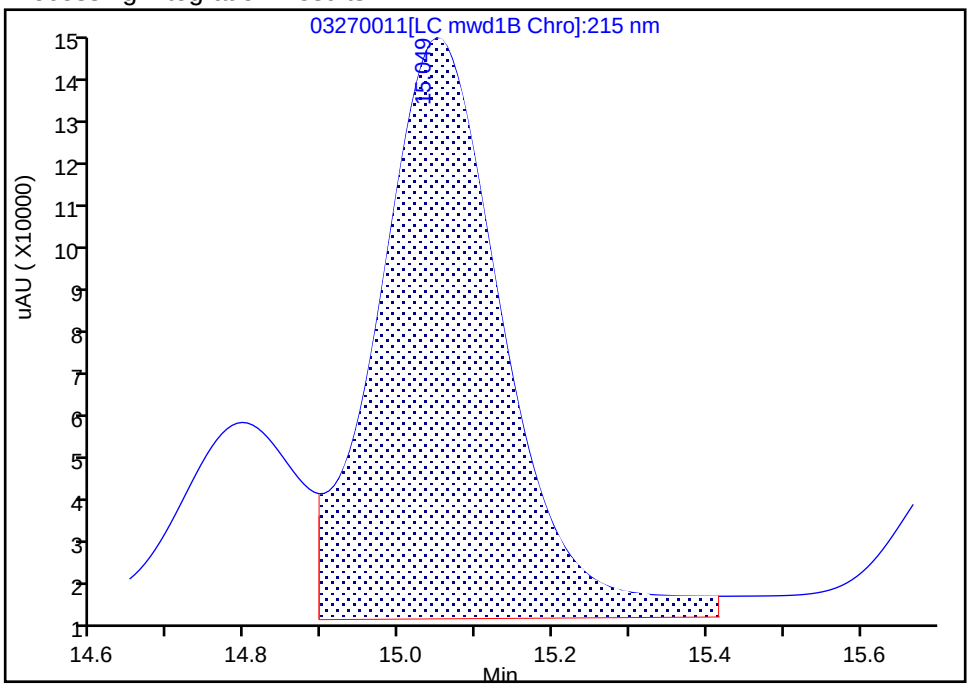
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270011.D
Injection Date: 27-Mar-2024 20:33:55 Instrument ID: CHHPLC_X5
Lims ID: IC INT 8
Client ID:
Operator ID: JZ/JG ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X5_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC mwd1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

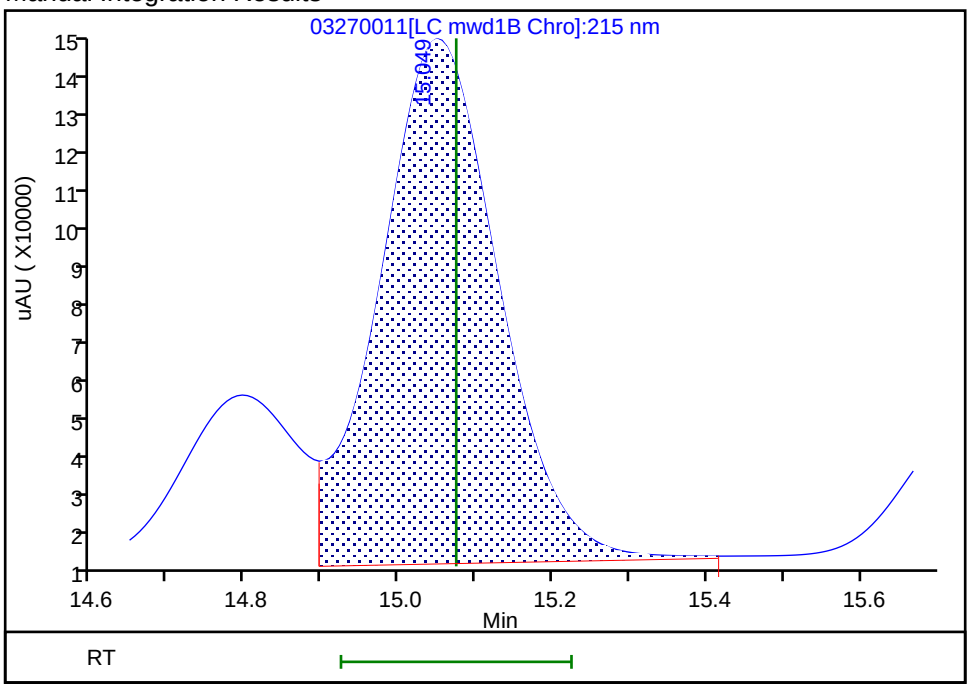
Processing Integration Results

RT: 15.05
Area: 1435019
Amount: 5.207698
Amount Units: ug/ml



Manual Integration Results

RT: 15.05
Area: 1322106
Amount: 9.765179
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:35:36 -06:00:00 (UTC)
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270012.D
Lims ID: IC INT 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 27-Mar-2024 21:08:51 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 7
Operator ID: JZ/JG Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub7

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 28-Mar-2024 14:09:26 Calib Date: 28-Mar-2024 05:53:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1687

First Level Reviewer: LV5D Date: 28-Mar-2024 11:35:47

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 HMX	1	6.776	6.787	-0.011	122924	0.7000	0.6413	
7 2,4,6-Trinitrophenol	1	7.862	7.934	-0.072	101830	0.7000	0.6770	
8 RDX	1	8.869	8.881	-0.012	141632	0.7000	0.6631	
9 Nitrobenzene	1	11.542	11.554	-0.012	256305	0.7000	0.6785	
$ 10 1,2-Dinitrobenzene	1	12.569	12.581	-0.012	177880	0.7000	0.6734	
11 3,5-Dinitroaniline	1	14.382	14.394	-0.012	304802	0.7000	0.6913	
12 1,3-Dinitrobenzene	1	14.809	14.821	-0.012	421120	0.7000	0.7038	
13 Nitroglycerin	2	15.062	15.074	-0.012	932056	7.00	6.88	M
14 o-Nitrotoluene	1	15.742	15.754	-0.012	168804	0.7000	0.6824	
16 p-Nitrotoluene	1	16.002	16.021	-0.019	152824	0.7000	0.7025	
17 4-Amino-2,6-dinitrotoluene	1	16.496	16.514	-0.018	194181	0.7000	0.6957	
18 m-Nitrotoluene	1	16.862	16.881	-0.019	191495	0.7000	0.7050	
19 2-Amino-4,6-dinitrotoluene	1	17.376	17.394	-0.018	276553	0.7000	0.6912	
20 1,3,5-Trinitrobenzene	1	17.796	17.807	-0.011	290999	0.7000	0.6773	
21 2,6-Dinitrotoluene	1	18.809	18.827	-0.018	195115	0.7000	0.7151	
22 2,4-Dinitrotoluene	1	19.302	19.314	-0.012	382126	0.7000	0.6992	
23 Tetryl	1	22.722	22.741	-0.019	229246	0.7000	0.6818	
24 2,4,6-Trinitrotoluene	1	23.696	23.707	-0.011	284522	0.7000	0.6832	
25 PETN	2	24.669	24.687	-0.018	917804	7.00	7.05	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00079 Amount Added: 70.00 Units: uL

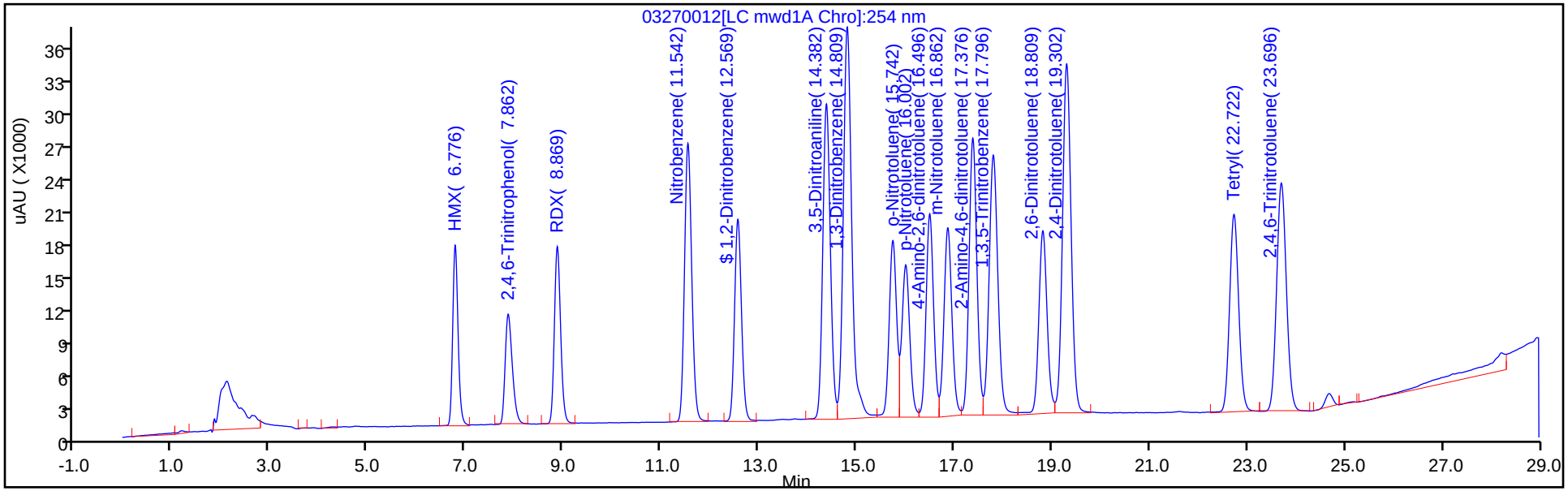
Report Date: 28-Mar-2024 14:09:26 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Denver

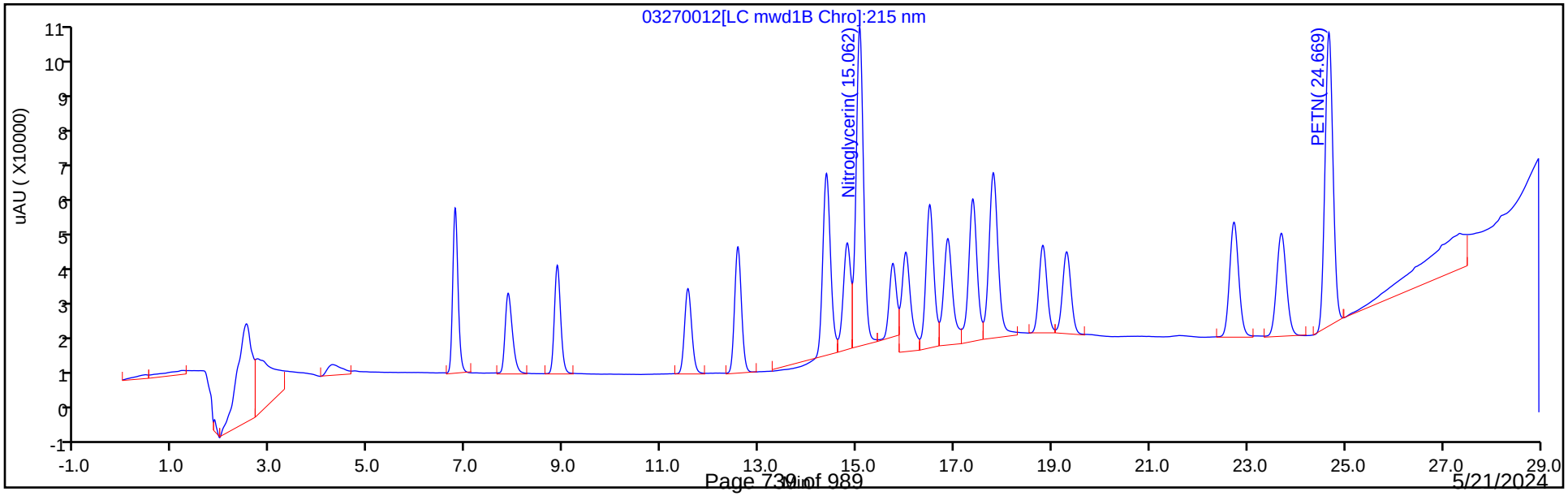
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270012.D

Injection Date:	27-Mar-2024 21:08:51	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	IC INT 7			Worklist Smp#:	12
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

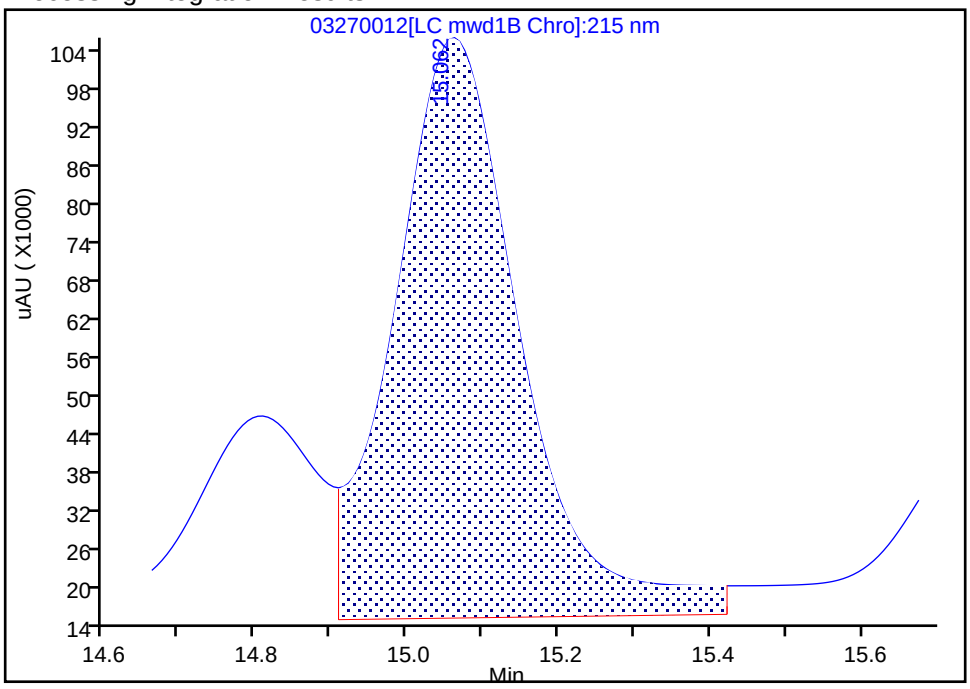
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270012.D				
Injection Date:	27-Mar-2024 21:08:51	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 7				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1B, 215 nm		

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

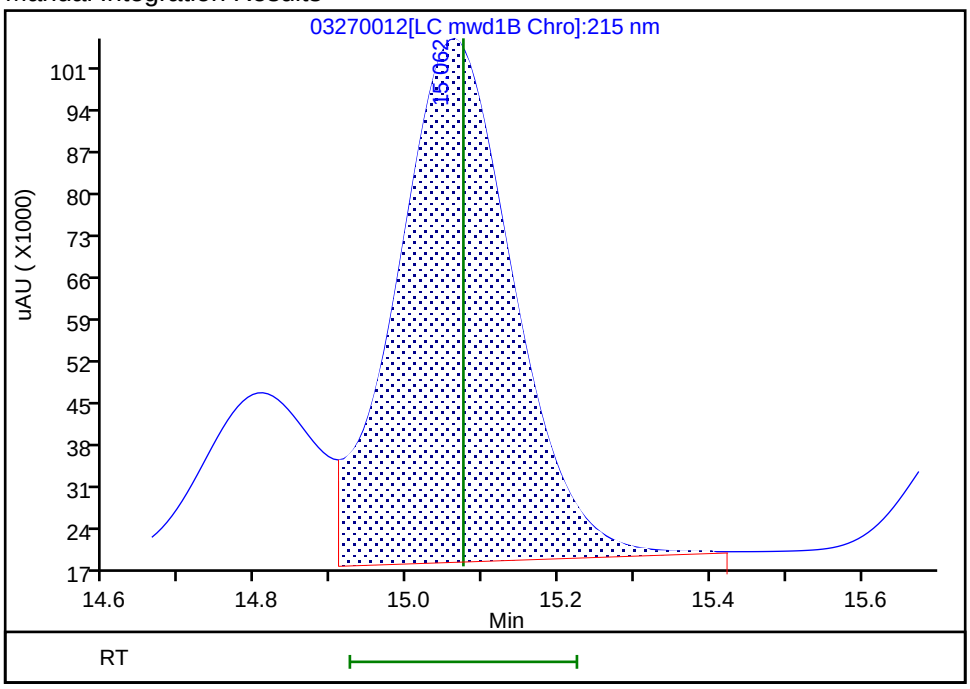
Processing Integration Results

RT: 15.06
Area: 1044814
Amount: 3.808982
Amount Units: ug/ml



Manual Integration Results

RT: 15.06
Area: 932056
Amount: 6.884239
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:35:45 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270013.D
Lims ID: IC INT 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 27-Mar-2024 21:43:46 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 6
Operator ID: JZ/JG Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub7

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 28-Mar-2024 14:09:26 Calib Date: 28-Mar-2024 05:53:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1687

First Level Reviewer: LV5D Date: 28-Mar-2024 11:35:54

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 HMX	1	6.780	6.787	-0.007	71870	0.4000	0.3749	
7 2,4,6-Trinitrophenol	1	7.900	7.934	-0.034	58665	0.4000	0.3900	
8 RDX	1	8.873	8.881	-0.008	82139	0.4000	0.3846	
9 Nitrobenzene	1	11.546	11.554	-0.008	148265	0.4000	0.3925	
$ 10 1,2-Dinitrobenzene	1	12.573	12.581	-0.008	102985	0.4000	0.3899	
11 3,5-Dinitroaniline	1	14.386	14.394	-0.008	177203	0.4000	0.4019	
12 1,3-Dinitrobenzene	1	14.813	14.821	-0.008	247490	0.4000	0.4136	
13 Nitroglycerin	2	15.066	15.074	-0.008	543150	4.00	4.01	M
14 o-Nitrotoluene	1	15.746	15.754	-0.008	98000	0.4000	0.3962	
16 p-Nitrotoluene	1	16.013	16.021	-0.008	88722	0.4000	0.4061	
17 4-Amino-2,6-dinitrotoluene	1	16.500	16.514	-0.014	112872	0.4000	0.4031	
18 m-Nitrotoluene	1	16.866	16.881	-0.015	110632	0.4000	0.4046	
19 2-Amino-4,6-dinitrotoluene	1	17.380	17.394	-0.014	159194	0.4000	0.3969	
20 1,3,5-Trinitrobenzene	1	17.800	17.807	-0.007	165995	0.4000	0.3864	
21 2,6-Dinitrotoluene	1	18.813	18.827	-0.014	109904	0.4000	0.4028	
22 2,4-Dinitrotoluene	1	19.306	19.314	-0.008	219281	0.4000	0.4012	
23 Tetryl	1	22.733	22.741	-0.008	132022	0.4000	0.3926	
24 2,4,6-Trinitrotoluene	1	23.700	23.707	-0.007	164886	0.4000	0.3959	
25 PETN	2	24.680	24.687	-0.007	525075	4.00	4.05	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00079 Amount Added: 40.00 Units: uL

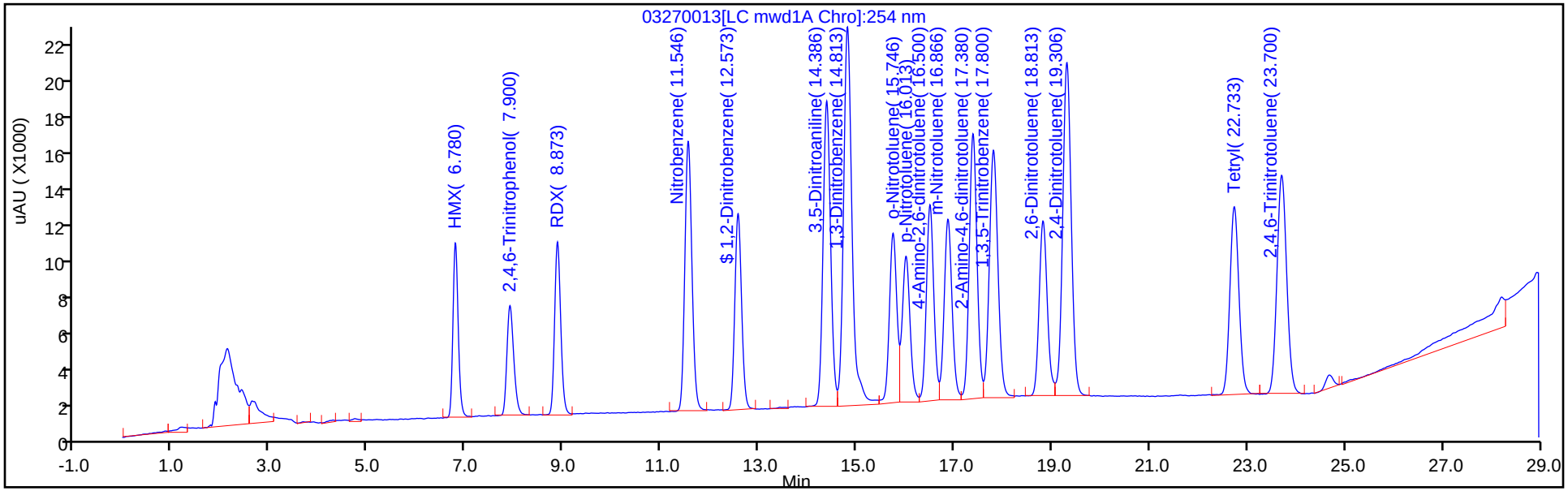
Report Date: 28-Mar-2024 14:09:27 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Denver

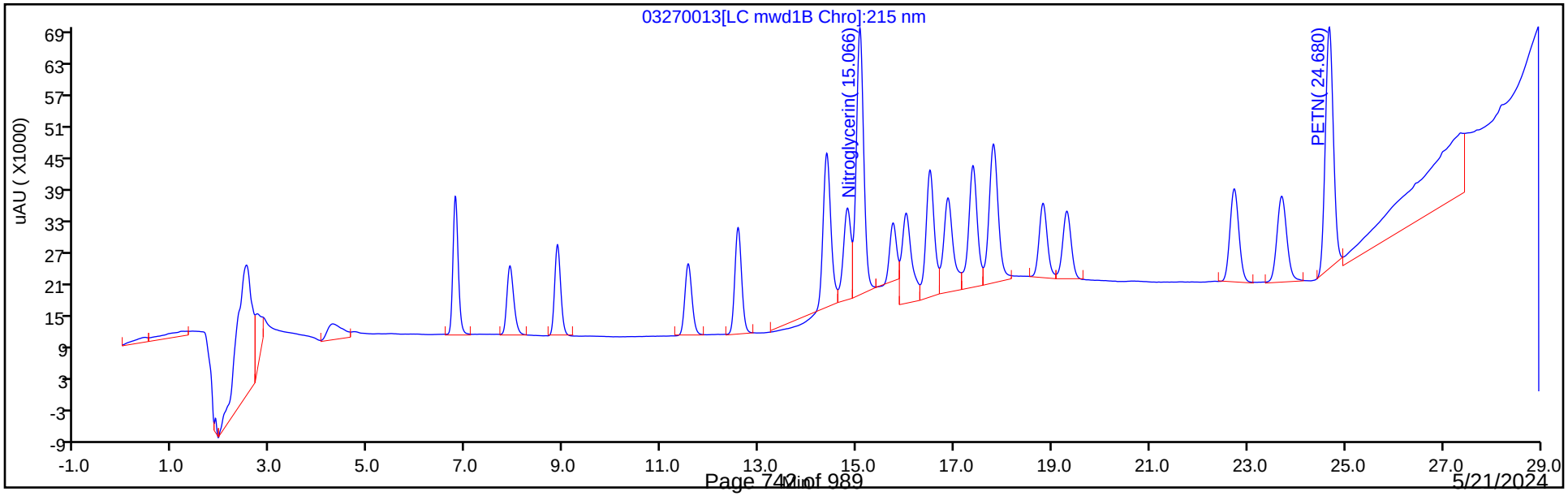
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270013.D

Injection Date:	27-Mar-2024 21:43:46	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	IC INT 6			Worklist Smp#:	13
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

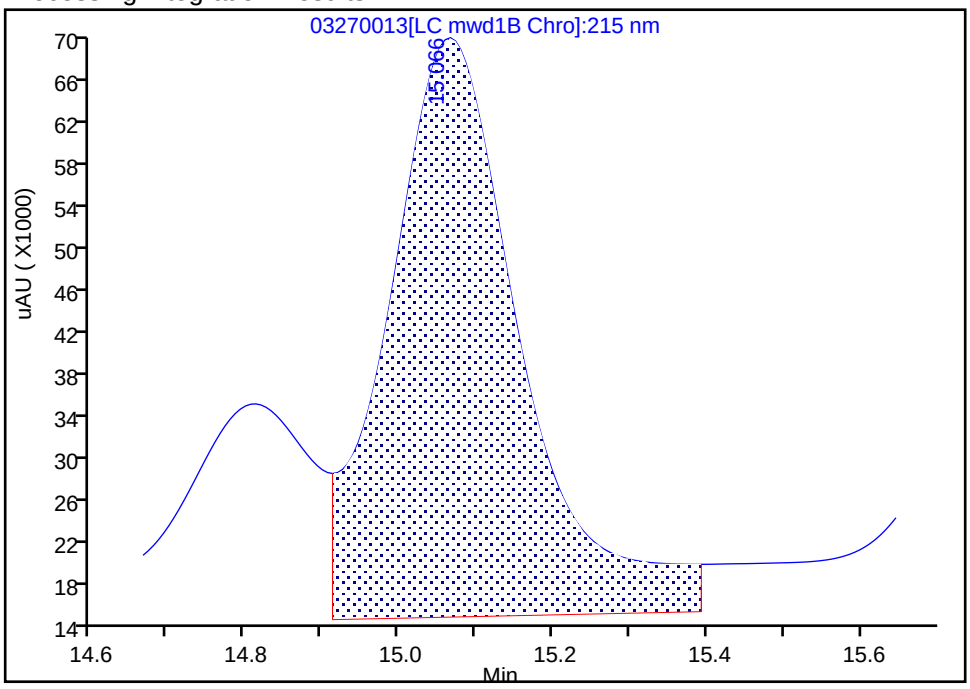
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270013.D				
Injection Date:	27-Mar-2024 21:43:46	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 6				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1B, 215 nm		

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

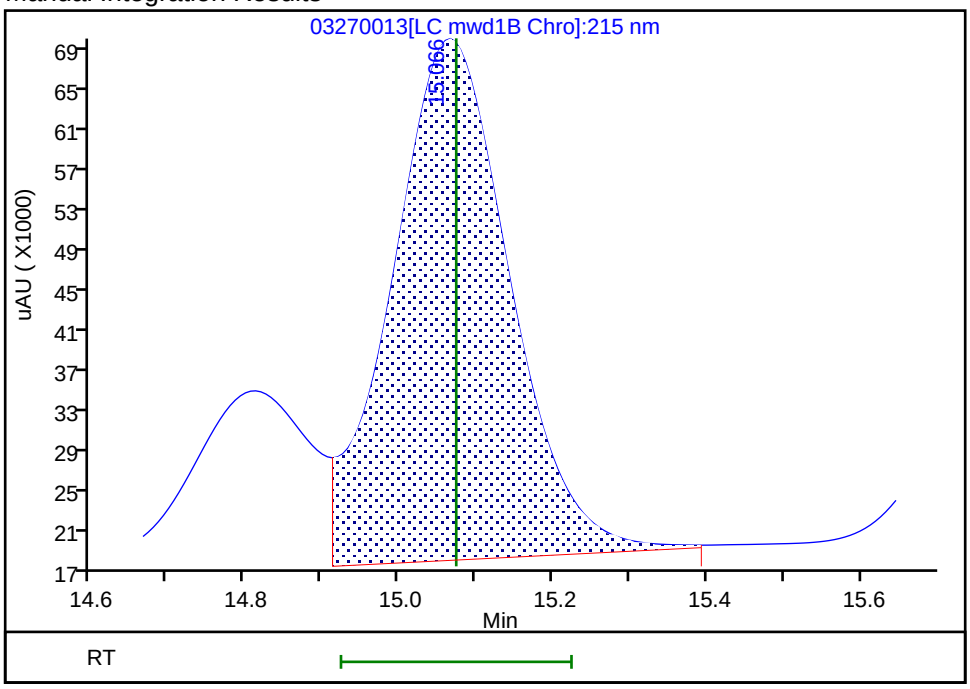
Processing Integration Results

RT: 15.07
Area: 652029
Amount: 2.392654
Amount Units: ug/ml



Manual Integration Results

RT: 15.07
Area: 543150
Amount: 4.011749
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:35:52 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

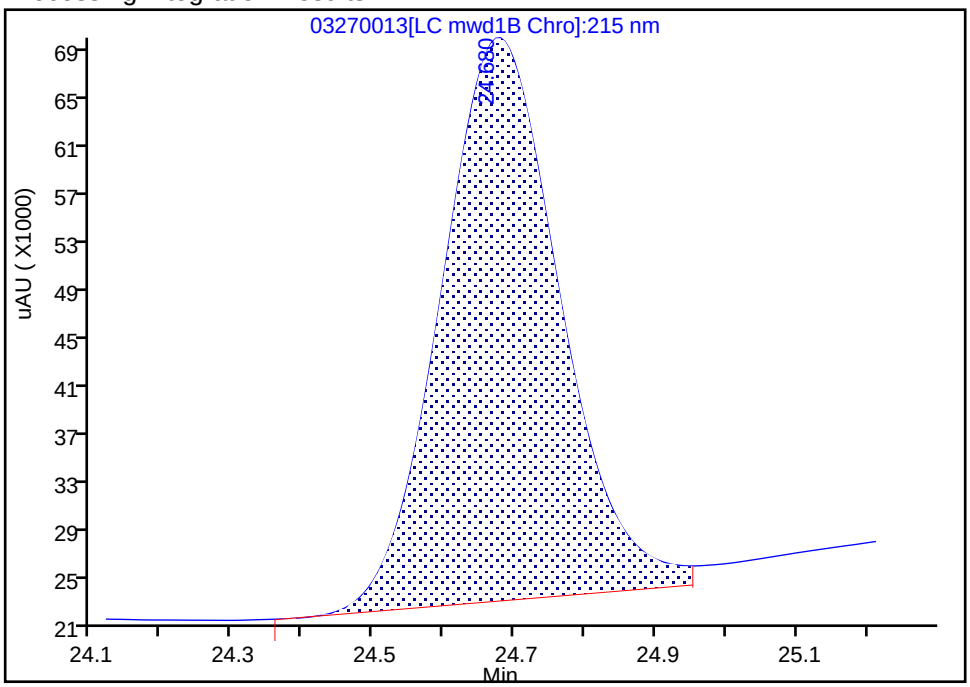
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270013.D
Injection Date: 27-Mar-2024 21:43:46 Instrument ID: CHHPLC_X5
Lims ID: IC INT 6
Client ID:
Operator ID: JZ/JG ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X5_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC mwd1B, 215 nm

25 PETN, CAS: 78-11-5

Signal: 1

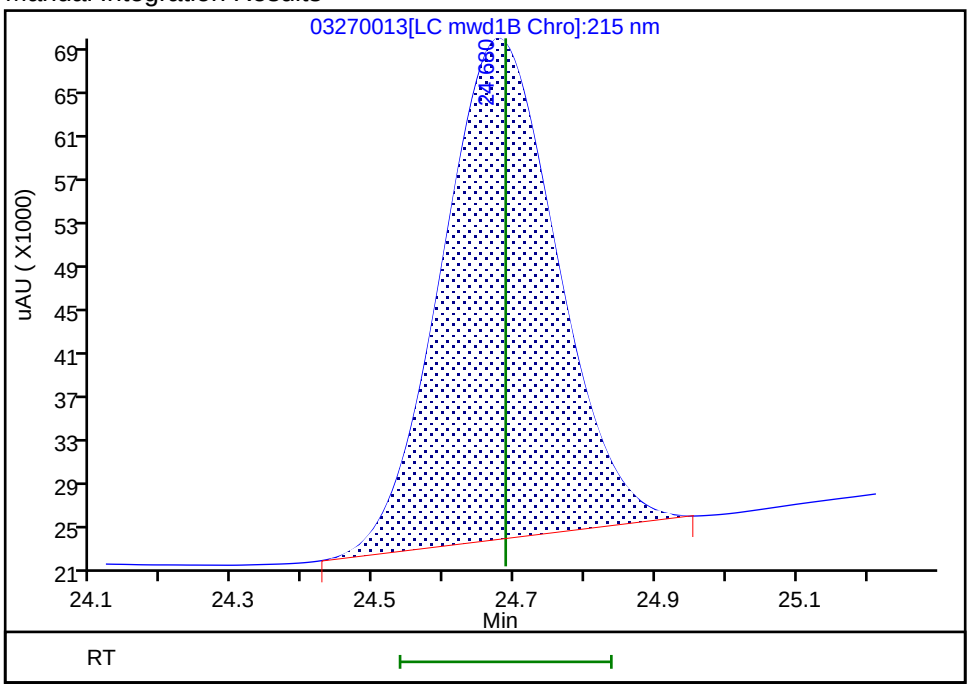
Processing Integration Results

RT: 24.68
Area: 552157
Amount: 4.031774
Amount Units: ug/ml



Manual Integration Results

RT: 24.68
Area: 525075
Amount: 4.049497
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:39:31 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270014.D
Lims ID: IC INT 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Mar-2024 22:18:46 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 5
Operator ID: JZ/JG Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub7

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 28-Mar-2024 14:09:27 Calib Date: 28-Mar-2024 05:53:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1687

First Level Reviewer: LV5D Date: 28-Mar-2024 11:36:04

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 HMX	1	6.787	6.787	0.000	44644	0.2500	0.2329	
7 2,4,6-Trinitrophenol	1	7.934	7.934	0.000	36592	0.2500	0.2433	
8 RDX	1	8.881	8.881	0.000	51199	0.2500	0.2397	
9 Nitrobenzene	1	11.554	11.554	0.000	91228	0.2500	0.2415	
$ 10 1,2-Dinitrobenzene	1	12.581	12.581	0.000	63832	0.2500	0.2416	
11 3,5-Dinitroaniline	1	14.394	14.394	0.000	110304	0.2500	0.2502	M
12 1,3-Dinitrobenzene	1	14.821	14.821	0.000	152858	0.2500	0.2555	M
13 Nitroglycerin	2	15.074	15.074	0.000	330187	2.50	2.44	M
14 o-Nitrotoluene	1	15.754	15.754	0.000	62730	0.2500	0.2536	M
16 p-Nitrotoluene	1	16.021	16.021	0.000	55261	0.2500	0.2513	M
17 4-Amino-2,6-dinitrotoluene	1	16.514	16.514	0.000	70385	0.2500	0.2502	M
18 m-Nitrotoluene	1	16.881	16.881	0.000	69503	0.2500	0.2517	M
19 2-Amino-4,6-dinitrotoluene	1	17.394	17.394	0.000	99171	0.2500	0.2463	M
20 1,3,5-Trinitrobenzene	1	17.807	17.807	0.000	102407	0.2500	0.2384	M
21 2,6-Dinitrotoluene	1	18.827	18.827	0.000	69384	0.2500	0.2543	
22 2,4-Dinitrotoluene	1	19.314	19.314	0.000	138171	0.2500	0.2528	
23 Tetryl	1	22.741	22.741	0.000	82183	0.2500	0.2444	
24 2,4,6-Trinitrotoluene	1	23.707	23.707	0.000	102460	0.2500	0.2460	
25 PETN	2	24.687	24.687	0.000	322087	2.50	2.50	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00079 Amount Added: 25.00 Units: uL

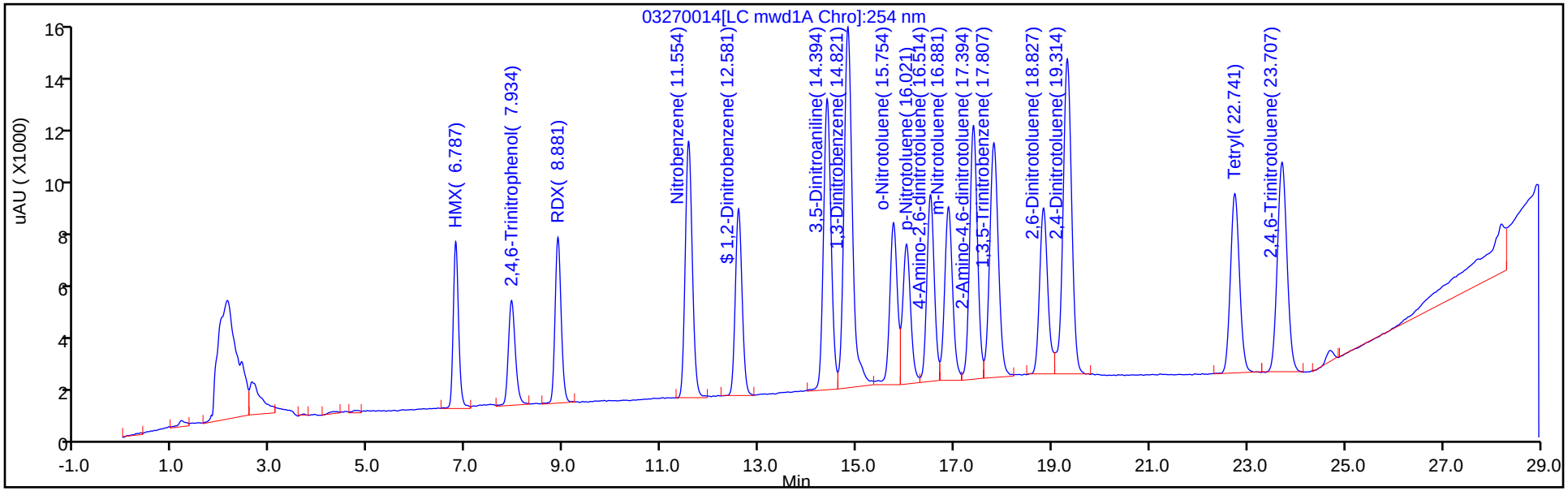
Report Date: 28-Mar-2024 14:09:28 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Denver

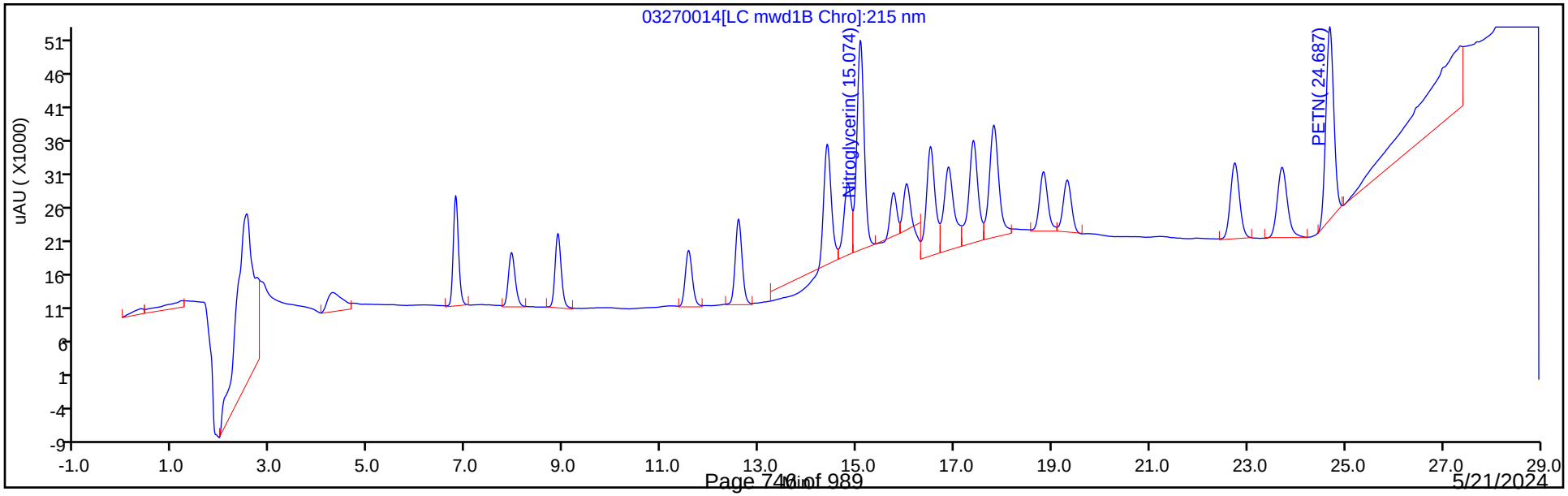
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270014.D

Injection Date:	27-Mar-2024 22:18:46	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	IC INT 5			Worklist Smp#:	14
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

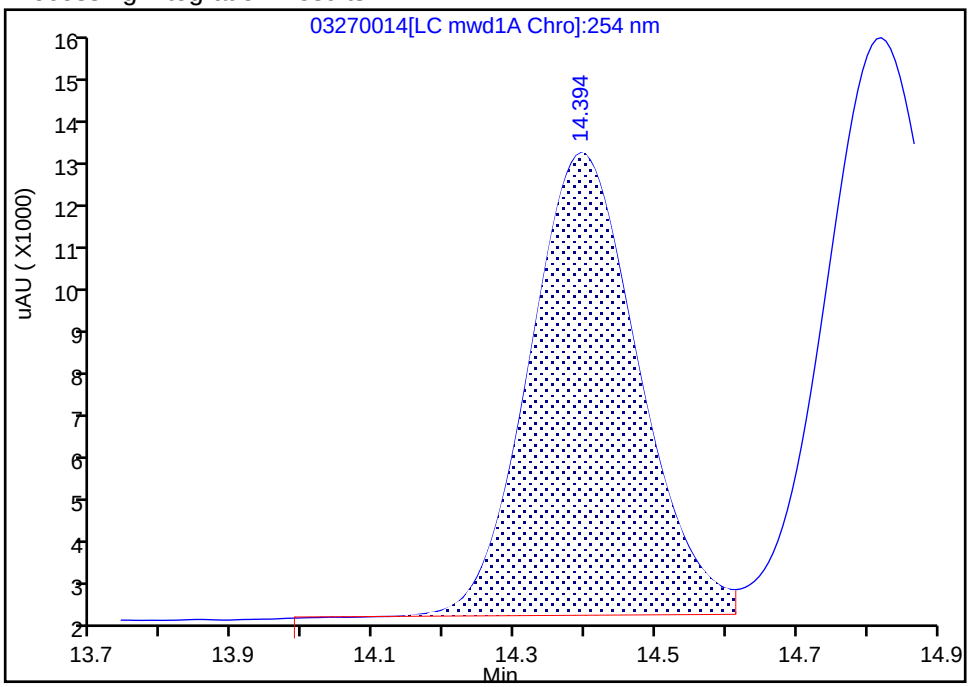
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270014.D				
Injection Date:	27-Mar-2024 22:18:46	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 5				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

11 3,5-Dinitroaniline, CAS: 618-87-1

Signal: 1

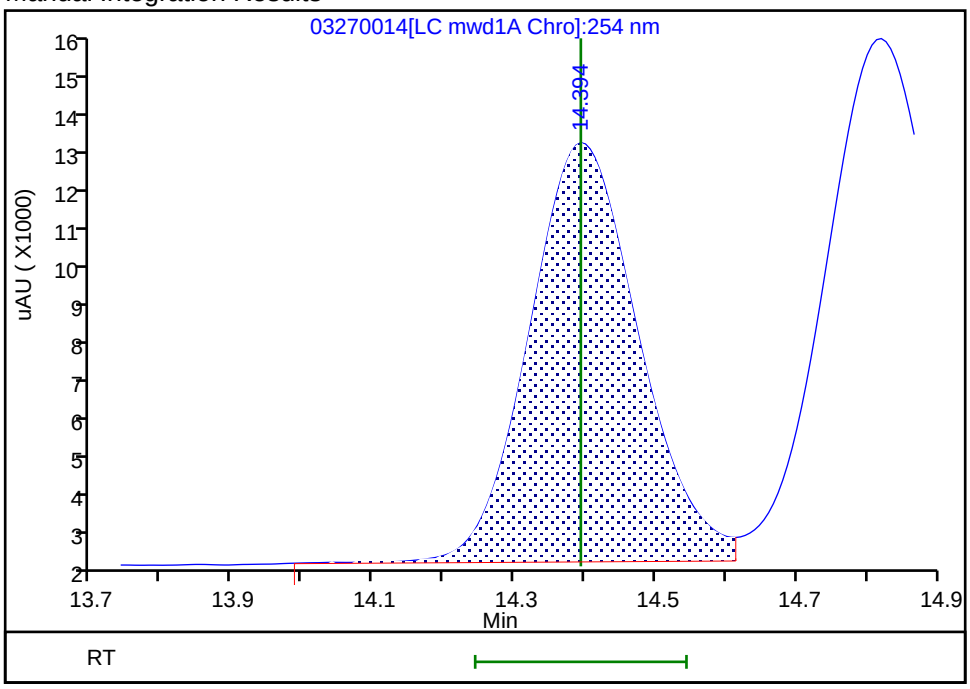
Processing Integration Results

RT: 14.39
Area: 110022
Amount: 0.249696
Amount Units: ug/ml



Manual Integration Results

RT: 14.39
Area: 110304
Amount: 0.250244
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 12:08:56 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

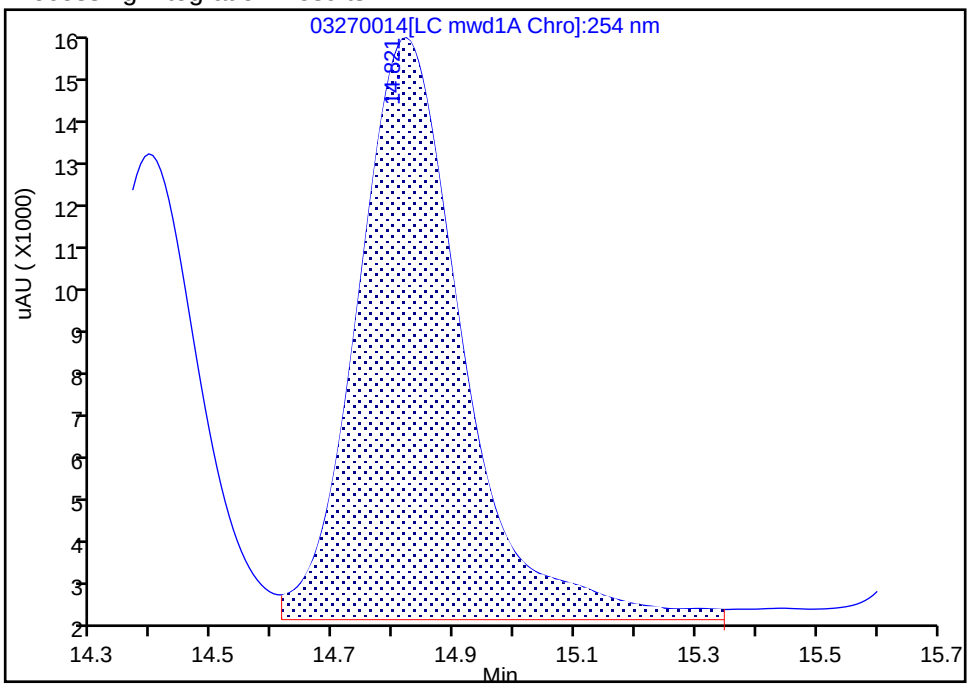
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270014.D				
Injection Date:	27-Mar-2024 22:18:46	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 5				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

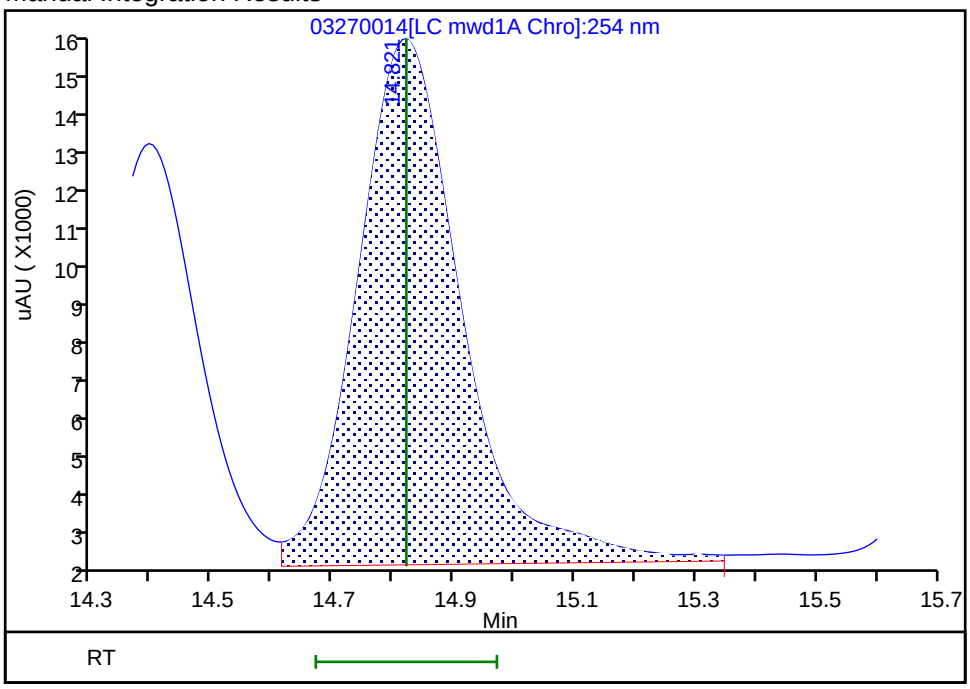
Processing Integration Results

RT: 14.82
Area: 154024
Amount: 0.257185
Amount Units: ug/ml



Manual Integration Results

RT: 14.82
Area: 152858
Amount: 0.255459
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 12:08:56 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

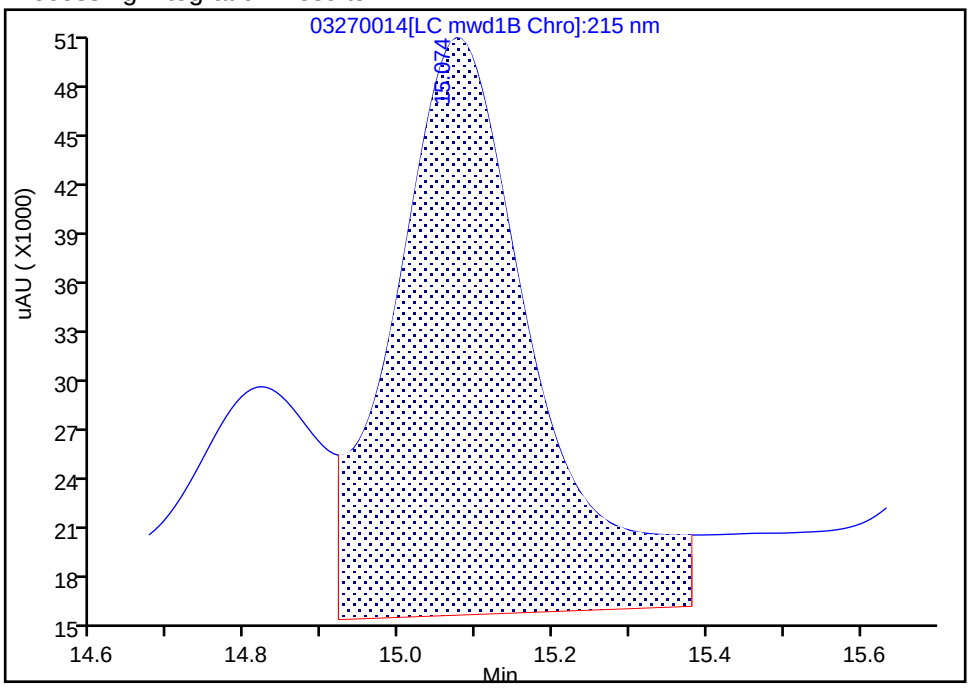
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270014.D
Injection Date: 27-Mar-2024 22:18:46 Instrument ID: CHHPLC_X5
Lims ID: IC INT 5
Client ID:
Operator ID: JZ/JG ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X5_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC mwd1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

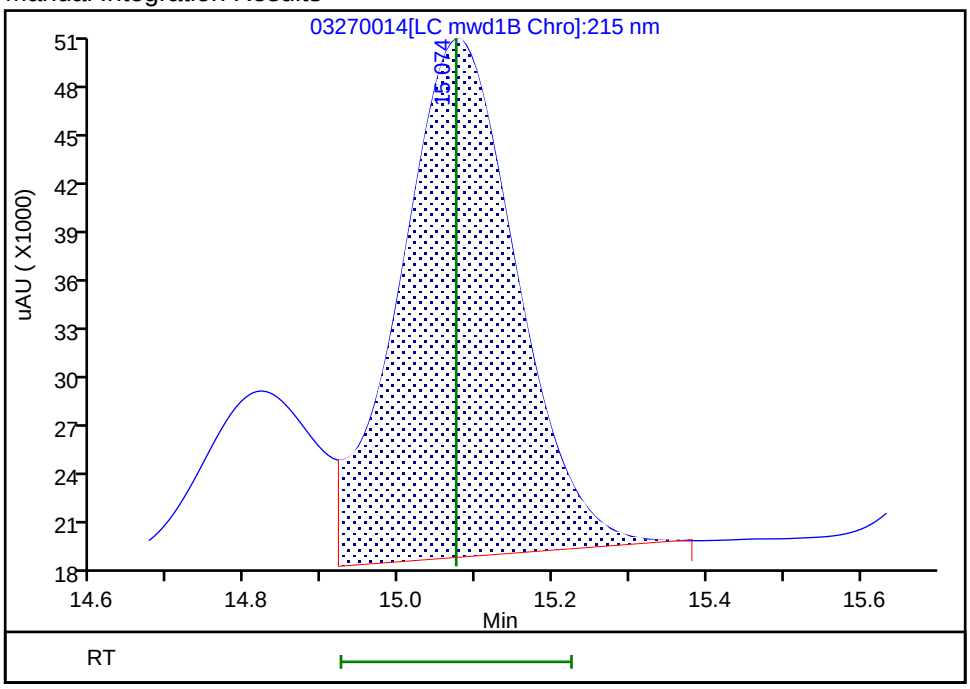
Processing Integration Results

RT: 15.07
Area: 442091
Amount: 1.640482
Amount Units: ug/ml



Manual Integration Results

RT: 15.07
Area: 330187
Amount: 2.438787
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:36:02 -06:00:00 (UTC)
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

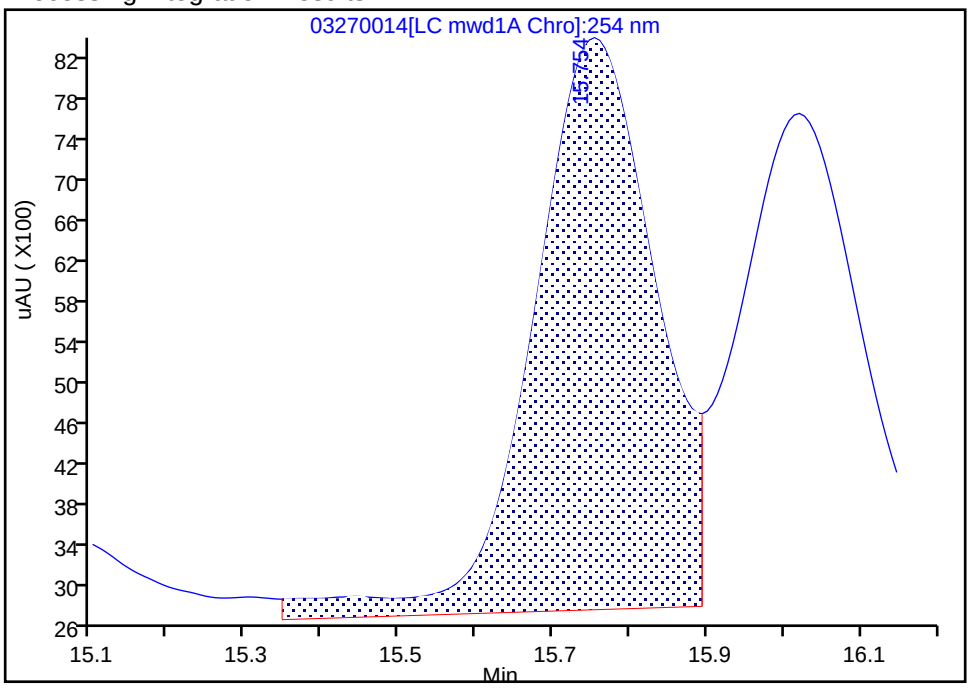
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270014.D				
Injection Date:	27-Mar-2024 22:18:46	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 5				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

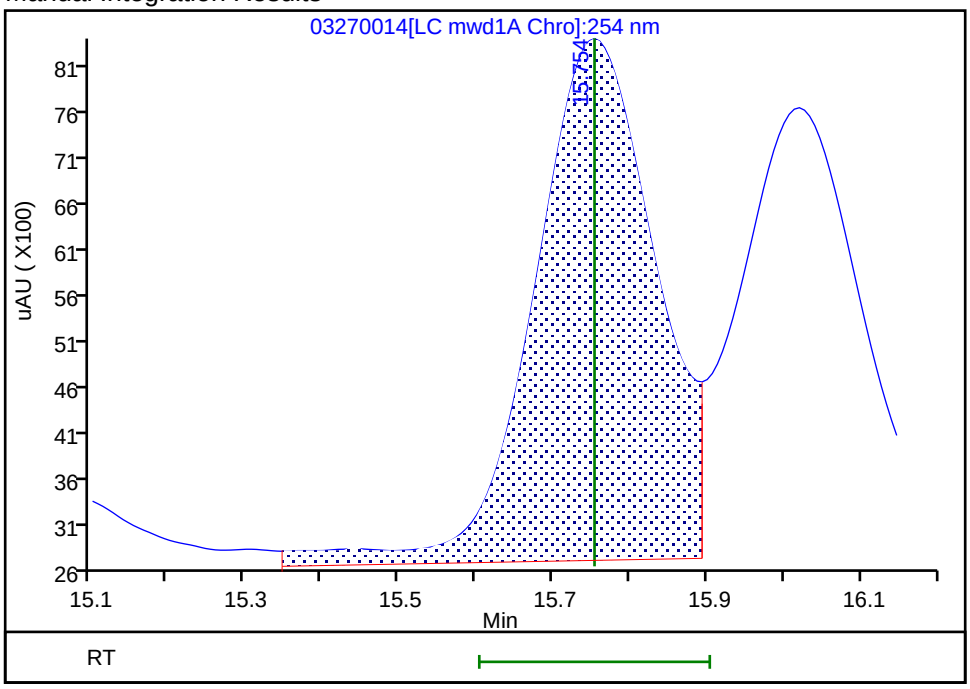
Processing Integration Results

RT: 15.75
Area: 63370
Amount: 0.255897
Amount Units: ug/ml



Manual Integration Results

RT: 15.75
Area: 62730
Amount: 0.253604
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 12:08:56 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

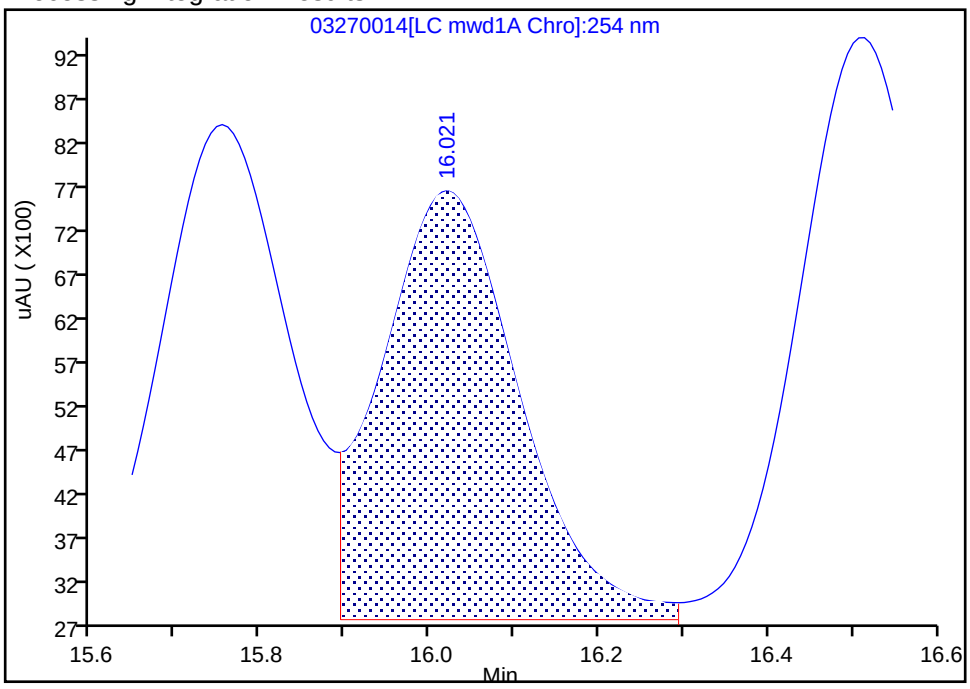
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270014.D				
Injection Date:	27-Mar-2024 22:18:46	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 5				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

16 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

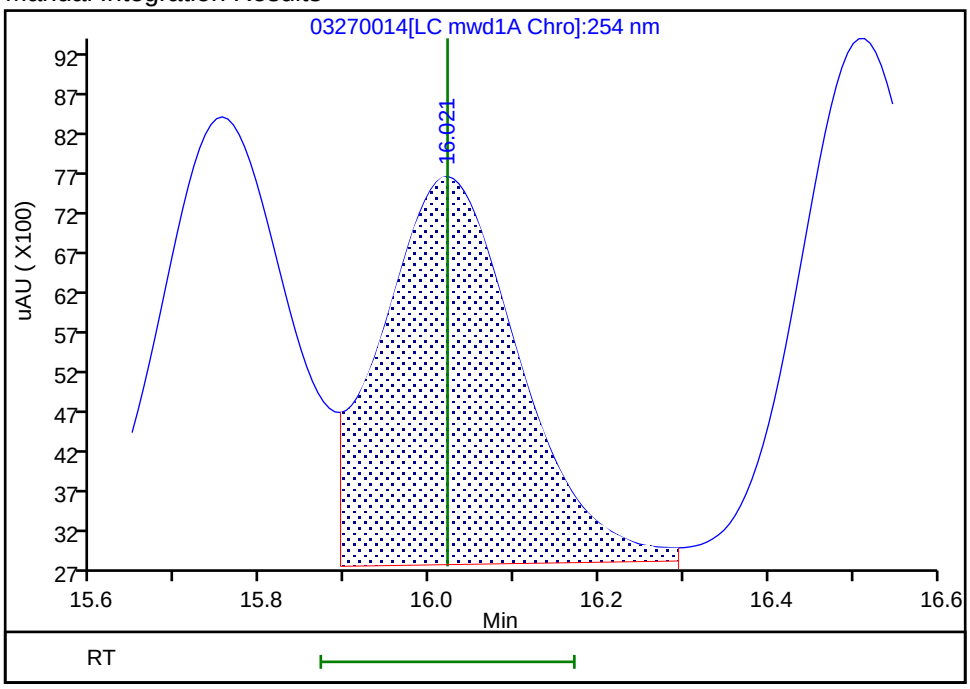
Processing Integration Results

RT: 16.02
Area: 55201
Amount: 0.234427
Amount Units: ug/ml



Manual Integration Results

RT: 16.02
Area: 55261
Amount: 0.251335
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 12:08:56 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

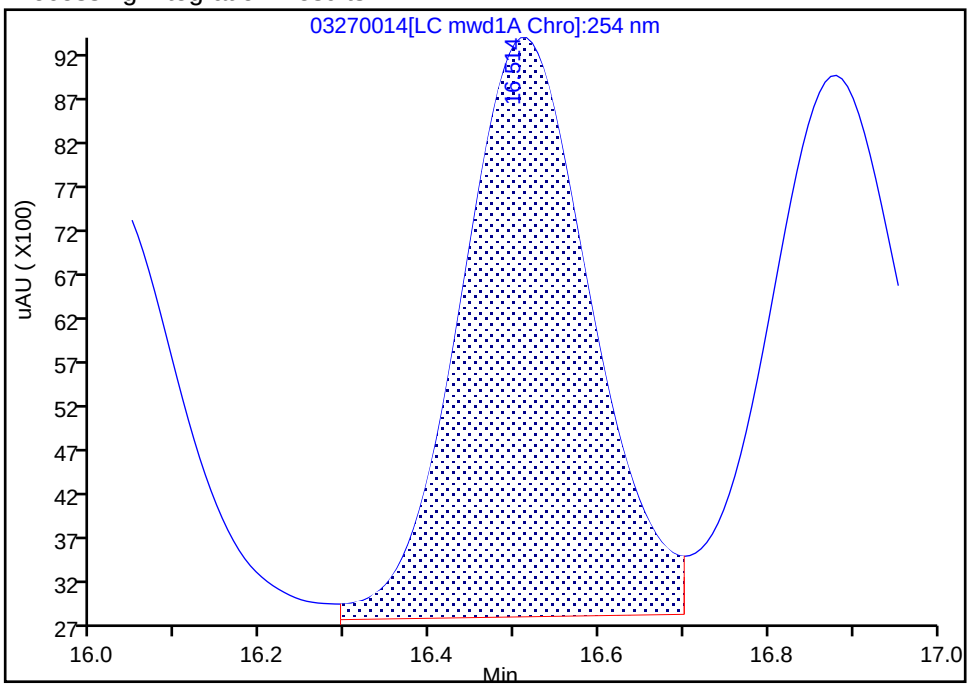
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270014.D
Injection Date: 27-Mar-2024 22:18:46 Instrument ID: CHHPLC_X5
Lims ID: IC INT 5
Client ID:
Operator ID: JZ/JG ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X5_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC mwd1A, 254 nm

17 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

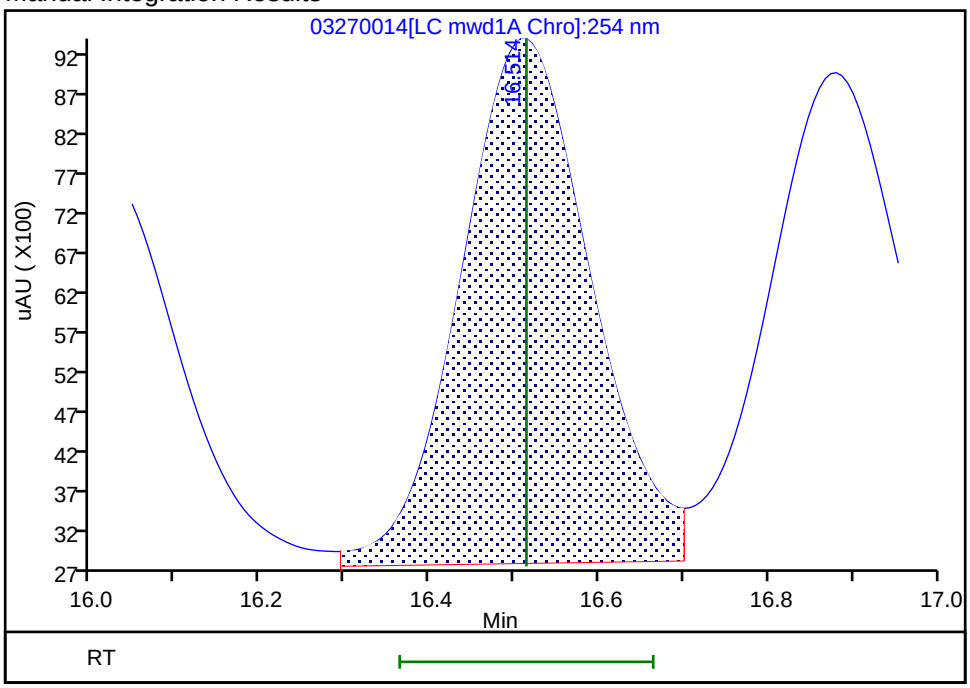
Processing Integration Results

RT: 16.51
Area: 70665
Amount: 0.238380
Amount Units: ug/ml



Manual Integration Results

RT: 16.51
Area: 70385
Amount: 0.250172
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 12:08:56 -06:00:00 (UTC)
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

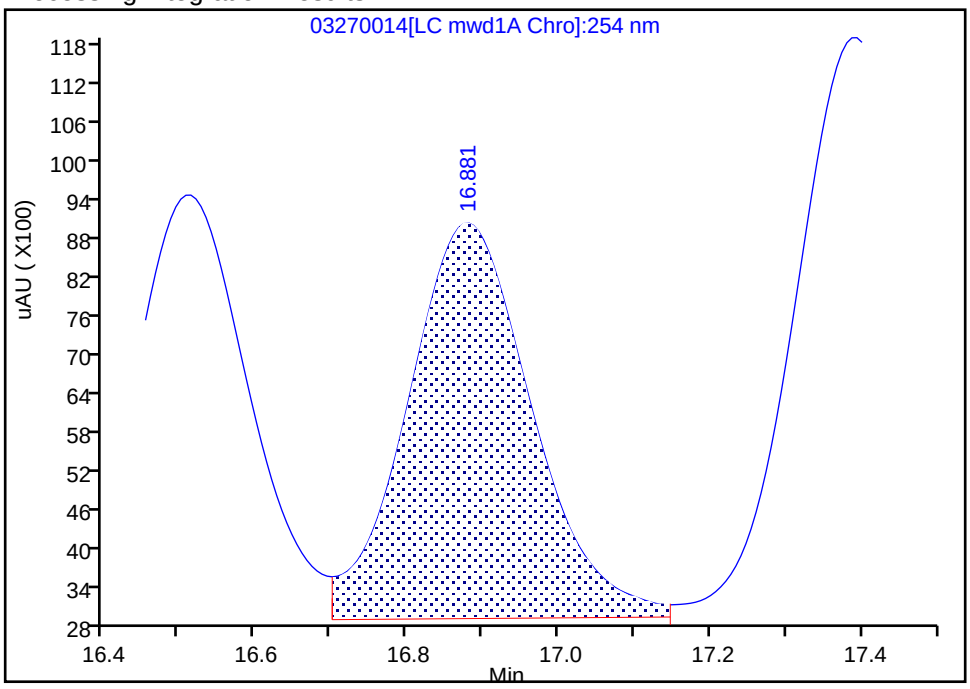
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270014.D				
Injection Date:	27-Mar-2024 22:18:46	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 5				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

18 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

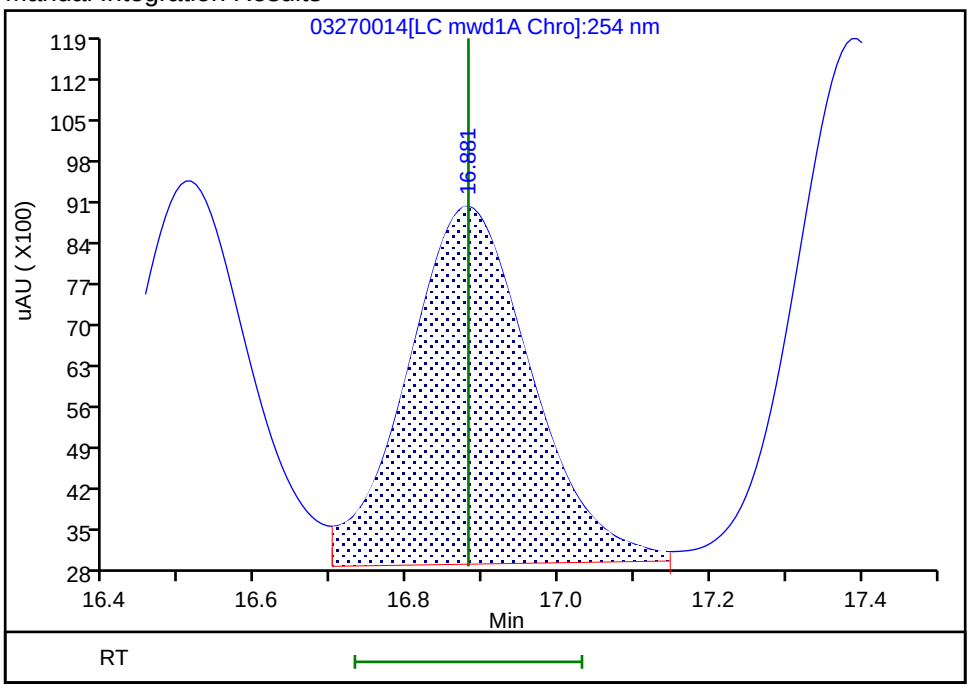
Processing Integration Results

RT: 16.88
Area: 69825
Amount: 0.228156
Amount Units: ug/ml



Manual Integration Results

RT: 16.88
Area: 69503
Amount: 0.251748
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 12:08:56 -06:00:00 (UTC)
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

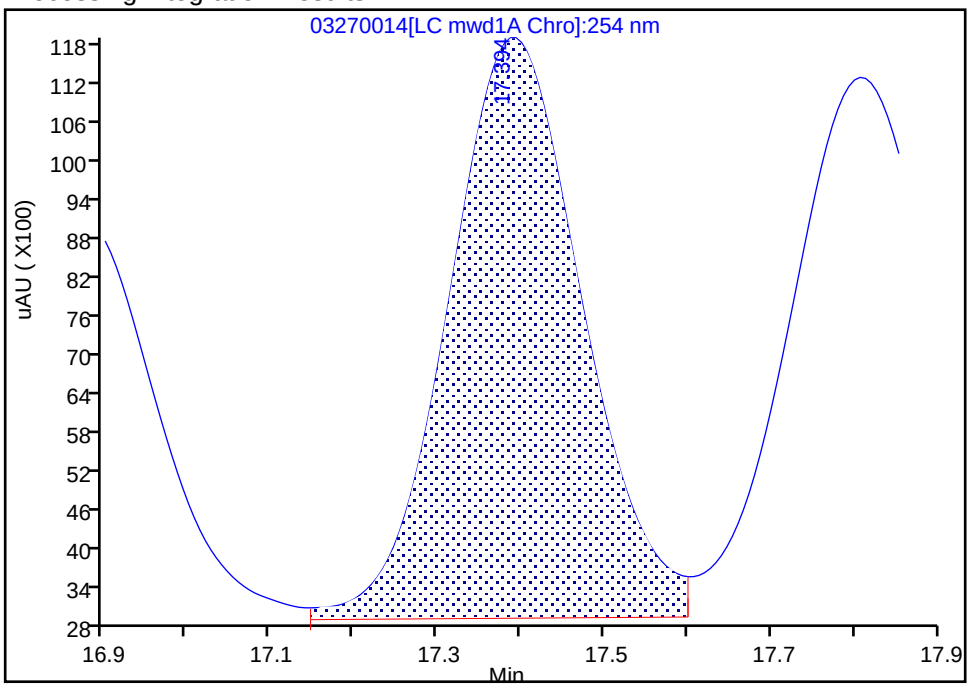
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270014.D				
Injection Date:	27-Mar-2024 22:18:46	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 5				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

19 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

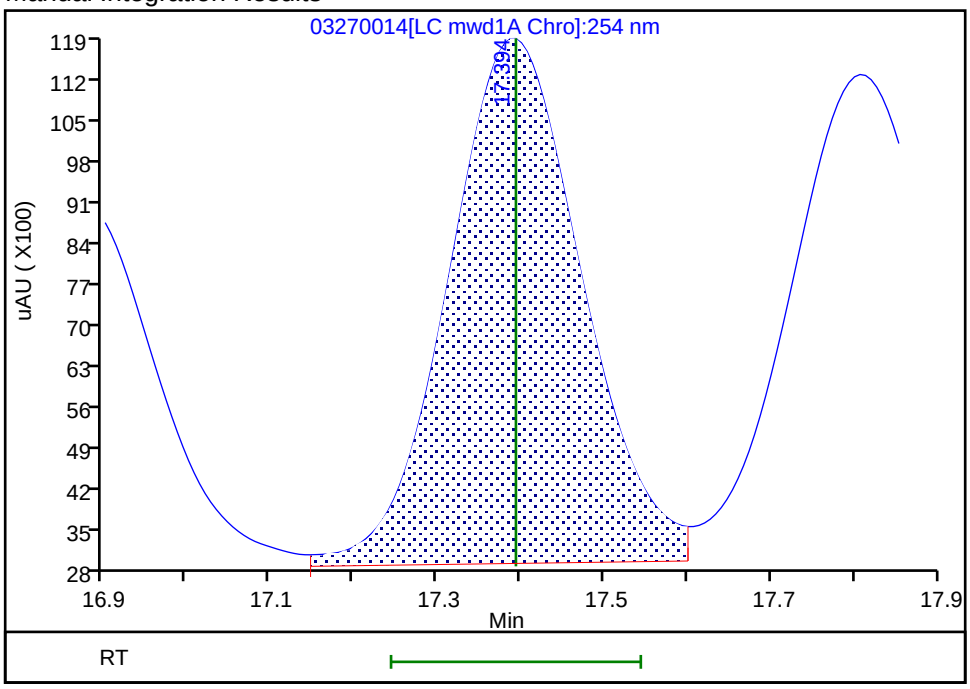
Processing Integration Results

RT: 17.39
Area: 99484
Amount: 0.237379
Amount Units: ug/ml



Manual Integration Results

RT: 17.39
Area: 99171
Amount: 0.246327
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 12:08:56 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

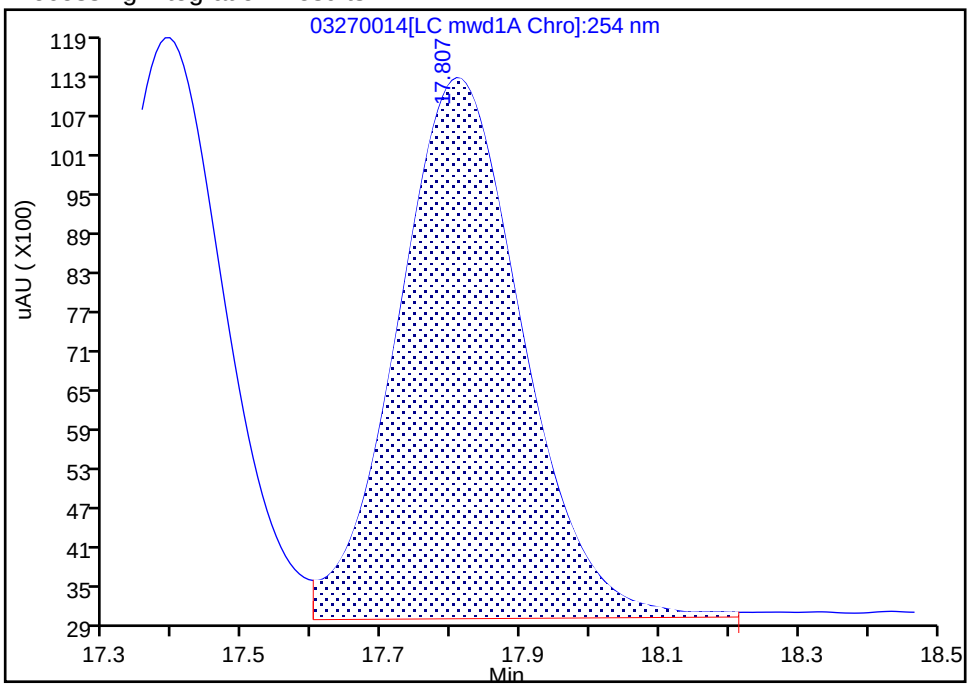
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270014.D				
Injection Date:	27-Mar-2024 22:18:46	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 5				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

20 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

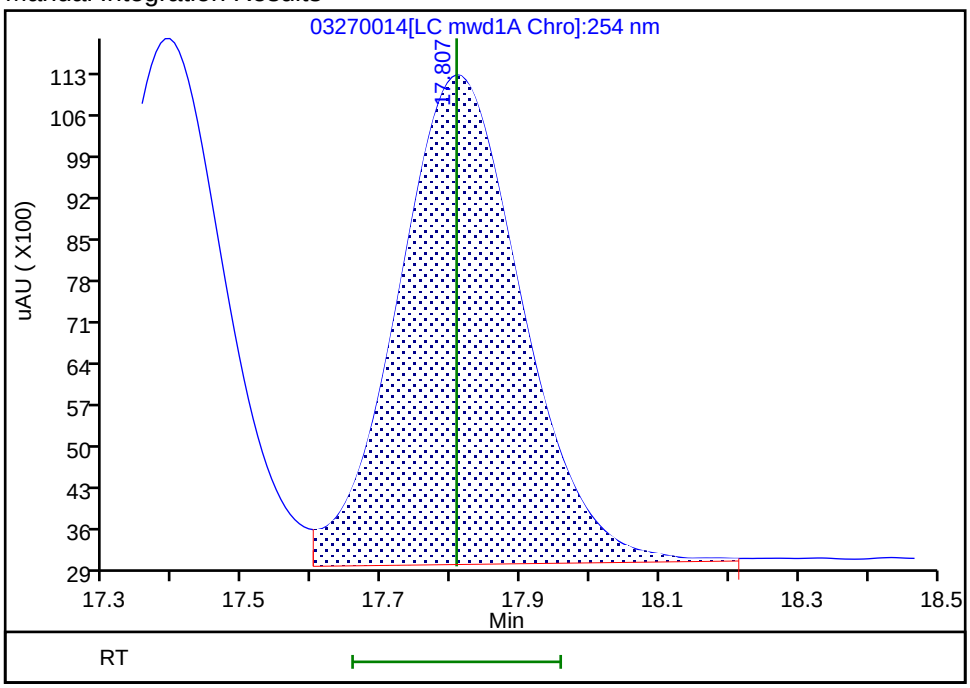
Processing Integration Results

RT: 17.81
Area: 103455
Amount: 0.240537
Amount Units: ug/ml



Manual Integration Results

RT: 17.81
Area: 102407
Amount: 0.238359
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 12:08:56 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

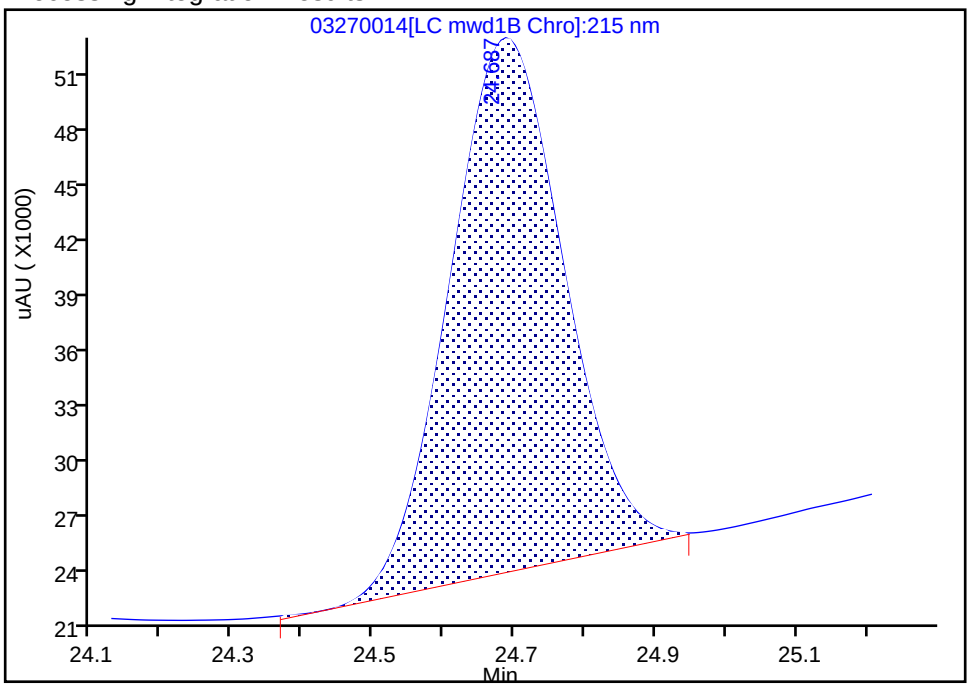
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270014.D
Injection Date: 27-Mar-2024 22:18:46 Instrument ID: CHHPLC_X5
Lims ID: IC INT 5
Client ID:
Operator ID: JZ/JG ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X5_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC mwd1B, 215 nm

25 PETN, CAS: 78-11-5

Signal: 1

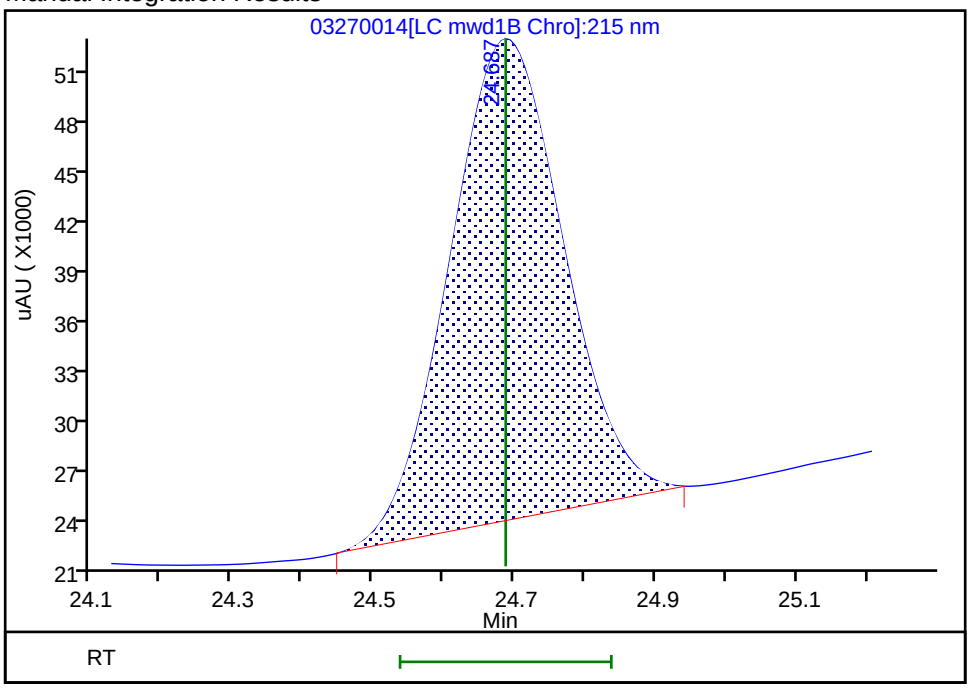
Processing Integration Results

RT: 24.69
Area: 324210
Amount: 2.380412
Amount Units: ug/ml



Manual Integration Results

RT: 24.69
Area: 322087
Amount: 2.497019
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:39:37 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270015.D
Lims ID: IC INT 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Mar-2024 22:53:40 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 4
Operator ID: JZ/JG Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub7

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 28-Mar-2024 14:09:28 Calib Date: 28-Mar-2024 05:53:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1687

First Level Reviewer: LV5D Date: 28-Mar-2024 14:07:46

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 HMX	1	6.792	6.787	0.005	18521	0.1000	0.0966	
7 2,4,6-Trinitrophenol	1	7.959	7.934	0.025	14935	0.1000	0.0993	
8 RDX	1	8.886	8.881	0.005	21066	0.1000	0.0986	
9 Nitrobenzene	1	11.566	11.554	0.012	37579	0.1000	0.0995	
$ 10 1,2-Dinitrobenzene	1	12.586	12.581	0.005	25950	0.1000	0.0982	
11 3,5-Dinitroaniline	1	14.399	14.394	0.005	45083	0.1000	0.1023	
12 1,3-Dinitrobenzene	1	14.826	14.821	0.005	63169	0.1000	0.1056	
13 Nitroglycerin	2	15.079	15.074	0.005	139113	1.00	1.03	M
14 o-Nitrotoluene	1	15.759	15.754	0.005	23970	0.1000	0.0969	
16 p-Nitrotoluene	1	16.026	16.021	0.005	22083	0.1000	0.0979	
17 4-Amino-2,6-dinitrotoluene	1	16.519	16.514	0.005	28535	0.1000	0.0995	
18 m-Nitrotoluene	1	16.892	16.881	0.011	28570	0.1000	0.0997	
19 2-Amino-4,6-dinitrotoluene	1	17.399	17.394	0.005	41030	0.1000	0.1005	
20 1,3,5-Trinitrobenzene	1	17.819	17.807	0.012	42679	0.1000	0.0993	
21 2,6-Dinitrotoluene	1	18.832	18.827	0.005	27556	0.1000	0.1010	
22 2,4-Dinitrotoluene	1	19.319	19.314	0.005	54196	0.1000	0.0992	M
23 Tetryl	1	22.746	22.741	0.005	33110	0.1000	0.0985	
24 2,4,6-Trinitrotoluene	1	23.712	23.707	0.005	41333	0.1000	0.0992	
25 PETN	2	24.692	24.687	0.005	125929	1.00	1.00	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00079 Amount Added: 10.00 Units: uL

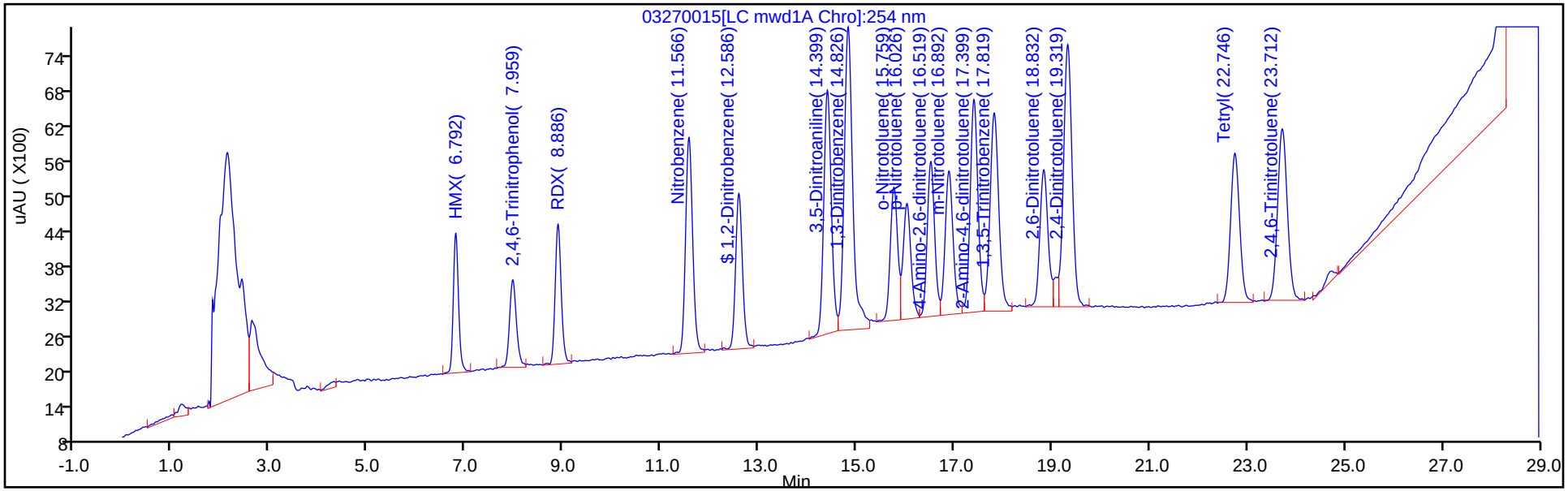
Report Date: 28-Mar-2024 14:09:29 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Denver

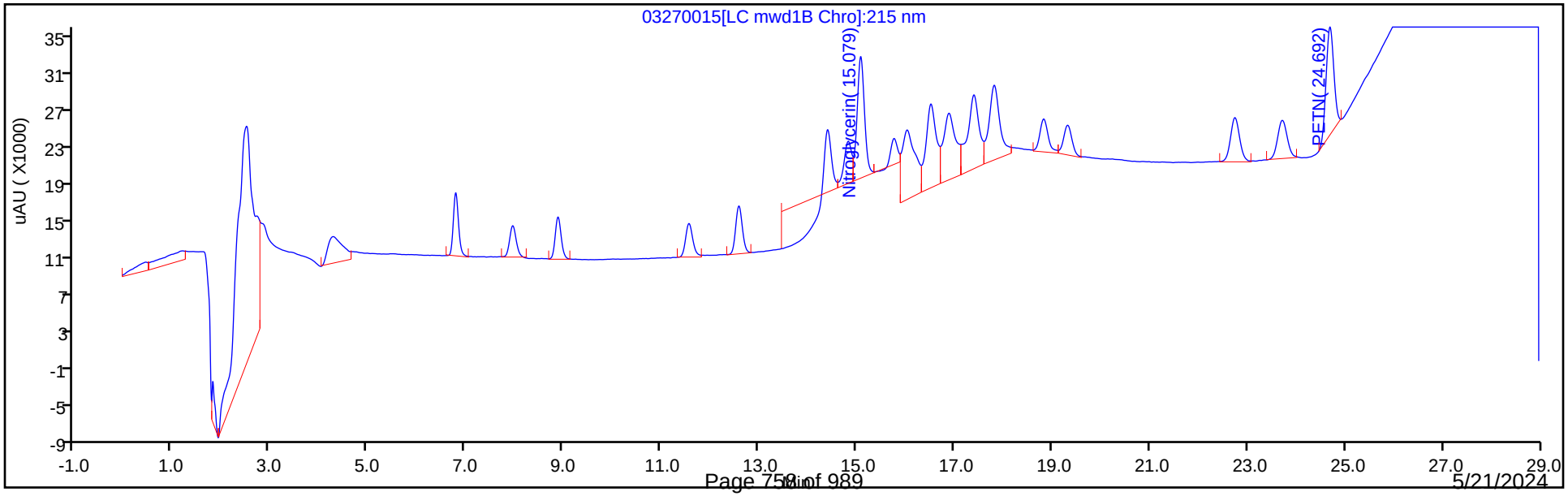
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270015.D

Injection Date:	27-Mar-2024 22:53:40	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	IC INT 4			Worklist Smp#:	15
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

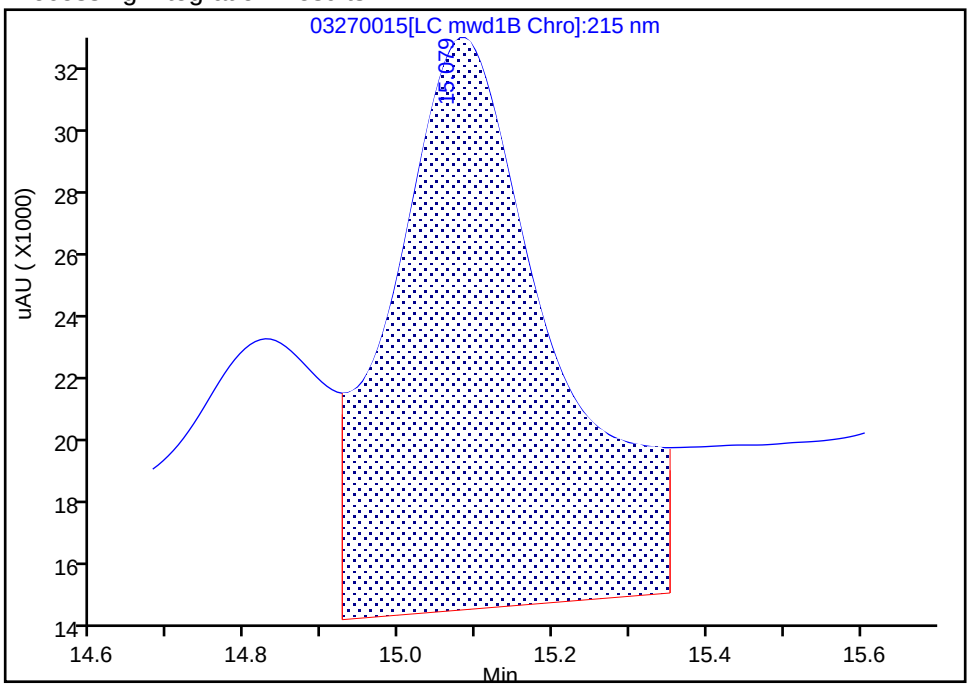
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270015.D				
Injection Date:	27-Mar-2024 22:53:40	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 4				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1B, 215 nm		

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

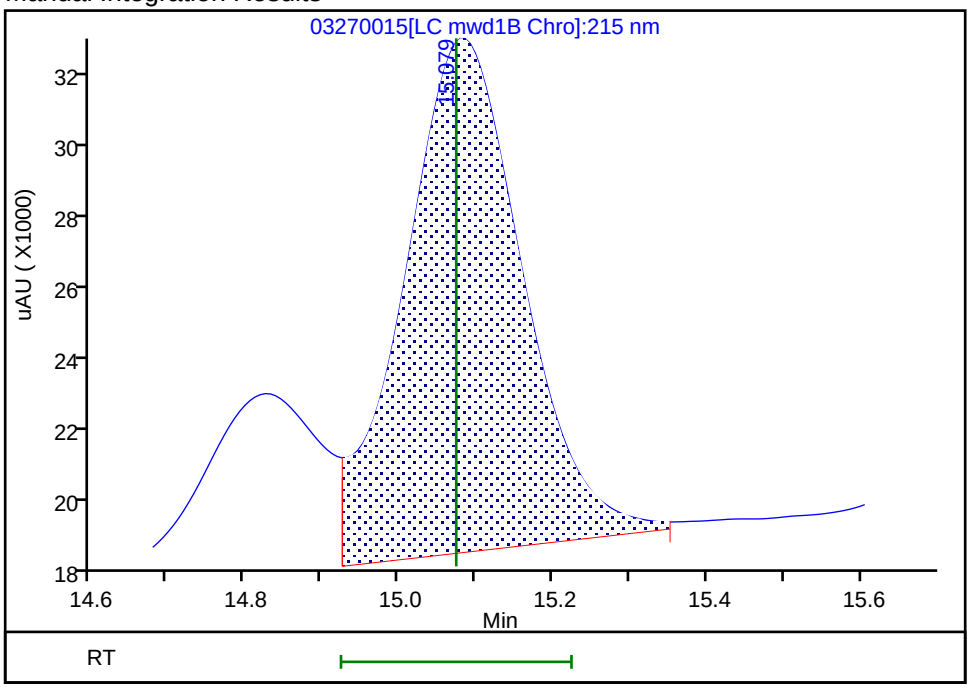
Processing Integration Results

RT: 15.08
Area: 243113
Amount: 0.919090
Amount Units: ug/ml



Manual Integration Results

RT: 15.08
Area: 139113
Amount: 1.027500
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:36:11 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

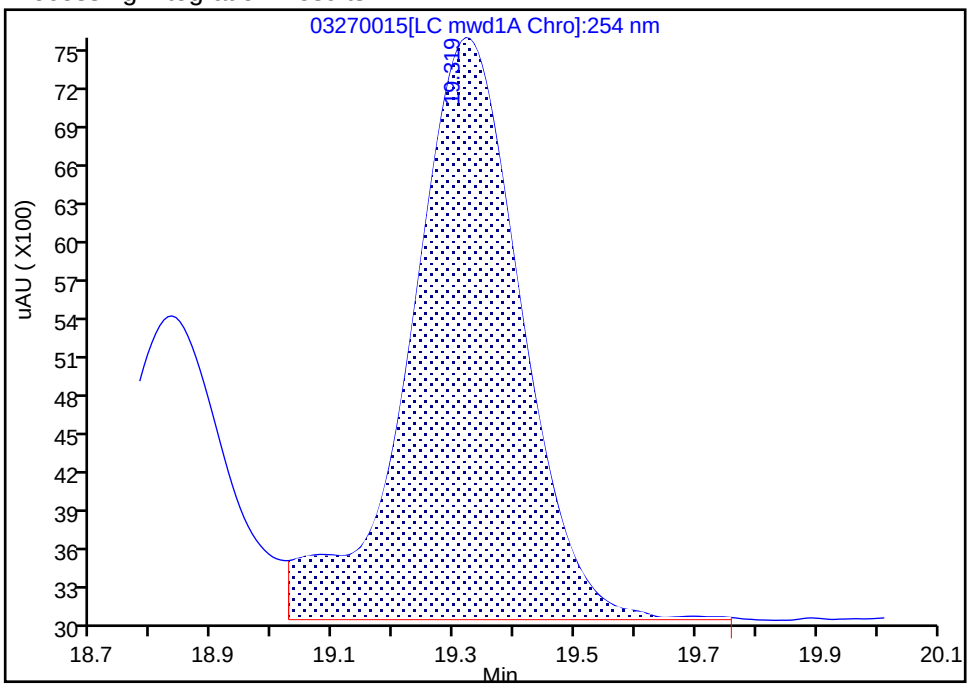
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270015.D
Injection Date: 27-Mar-2024 22:53:40 Instrument ID: CHHPLC_X5
Lims ID: IC INT 4
Client ID:
Operator ID: JZ/JG ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X5_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC mwd1A, 254 nm

22 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

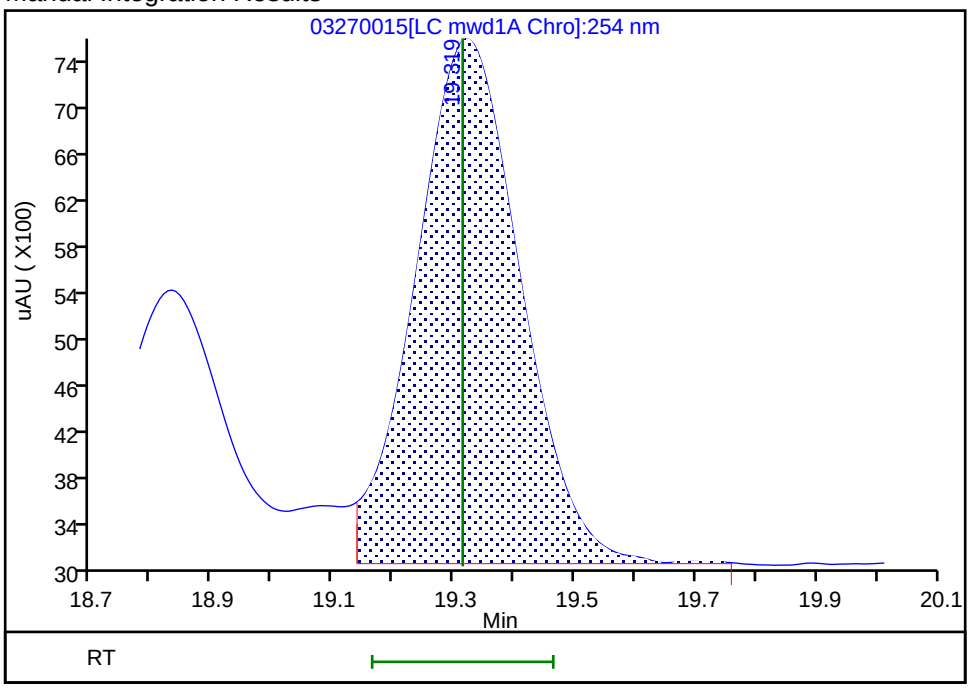
Processing Integration Results

RT: 19.32
Area: 57498
Amount: 0.104505
Amount Units: ug/ml



Manual Integration Results

RT: 19.32
Area: 54196
Amount: 0.099165
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:37:09 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

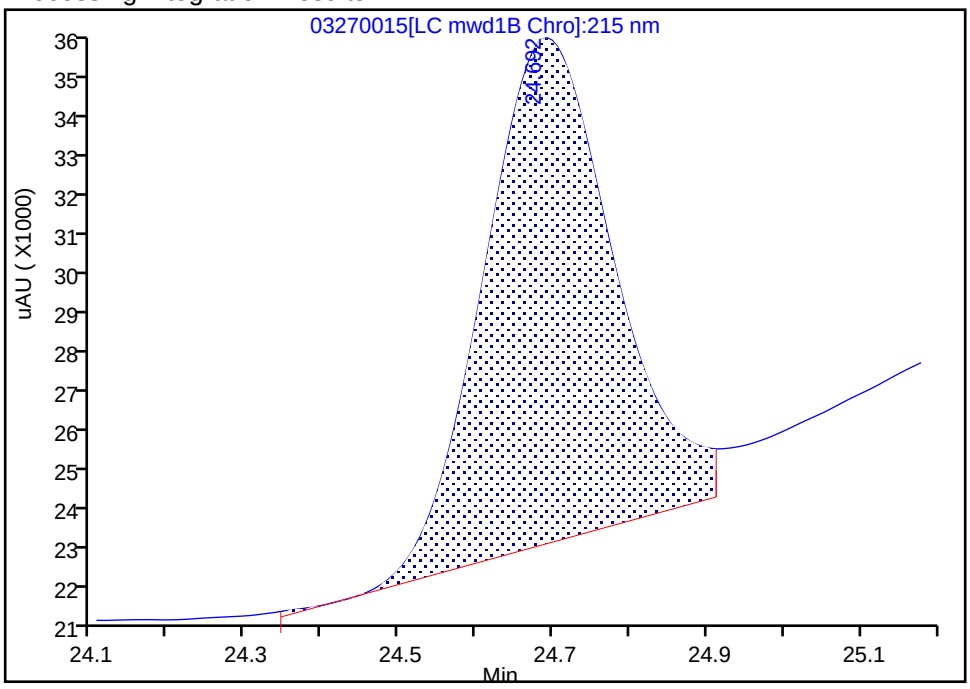
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270015.D
Injection Date: 27-Mar-2024 22:53:40 Instrument ID: CHHPLC_X5
Lims ID: IC INT 4
Client ID:
Operator ID: JZ/JG ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X5_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC mwd1B, 215 nm

25 PETN, CAS: 78-11-5

Signal: 1

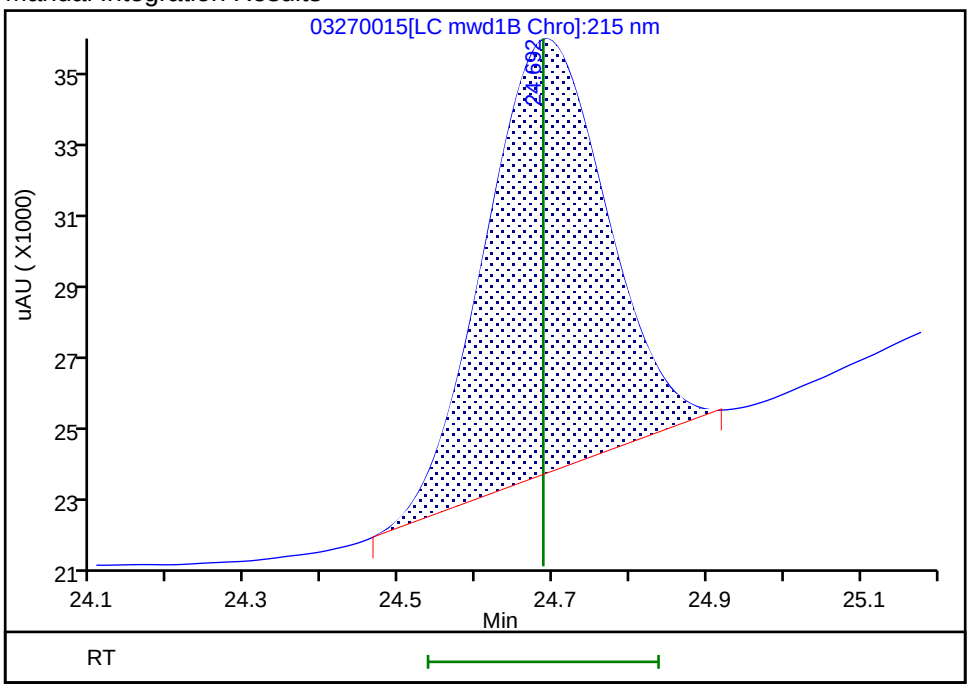
Processing Integration Results

RT: 24.69
Area: 141762
Amount: 1.041565
Amount Units: ug/ml



Manual Integration Results

RT: 24.69
Area: 125929
Amount: 0.996777
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:39:44 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270016.D
Lims ID: IC INT 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Mar-2024 23:28:41 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 3
Operator ID: JZ/JG Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub7

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 28-Mar-2024 14:09:29 Calib Date: 28-Mar-2024 05:53:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1687

First Level Reviewer: LV5D Date: 28-Mar-2024 11:37:02

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 HMX	1	6.786	6.787	-0.001	9356	0.0500	0.0488	
7 2,4,6-Trinitrophenol	1	7.979	7.934	0.045	7577	0.0500	0.0504	
8 RDX	1	8.886	8.881	0.005	10653	0.0500	0.0499	
9 Nitrobenzene	1	11.566	11.554	0.012	18828	0.0500	0.0498	
$ 10 1,2-Dinitrobenzene	1	12.586	12.581	0.005	13065	0.0500	0.0495	
11 3,5-Dinitroaniline	1	14.399	14.394	0.005	22622	0.0500	0.0514	M
12 1,3-Dinitrobenzene	1	14.826	14.821	0.005	30462	0.0500	0.0509	M
13 Nitroglycerin	2	15.079	15.074	0.005	69985	0.5000	0.5169	M
14 o-Nitrotoluene	1	15.759	15.754	0.005	12161	0.0500	0.0492	M
16 p-Nitrotoluene	1	16.026	16.021	0.005	11499	0.0500	0.0489	
17 4-Amino-2,6-dinitrotoluene	1	16.519	16.514	0.005	14588	0.0500	0.0493	
18 m-Nitrotoluene	1	16.886	16.881	0.005	14909	0.0500	0.0489	
19 2-Amino-4,6-dinitrotoluene	1	17.399	17.394	0.005	21010	0.0500	0.0503	
20 1,3,5-Trinitrobenzene	1	17.819	17.807	0.012	22192	0.0500	0.0517	
21 2,6-Dinitrotoluene	1	18.826	18.827	-0.001	13493	0.0500	0.0495	
22 2,4-Dinitrotoluene	1	19.312	19.314	-0.002	27016	0.0500	0.0494	M
23 Tetryl	1	22.739	22.741	-0.002	16569	0.0500	0.0493	
24 2,4,6-Trinitrotoluene	1	23.706	23.707	-0.001	20396	0.0500	0.0490	
25 PETN	2	24.686	24.687	-0.001	56701	0.5000	0.4673	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00079 Amount Added: 5.00 Units: uL

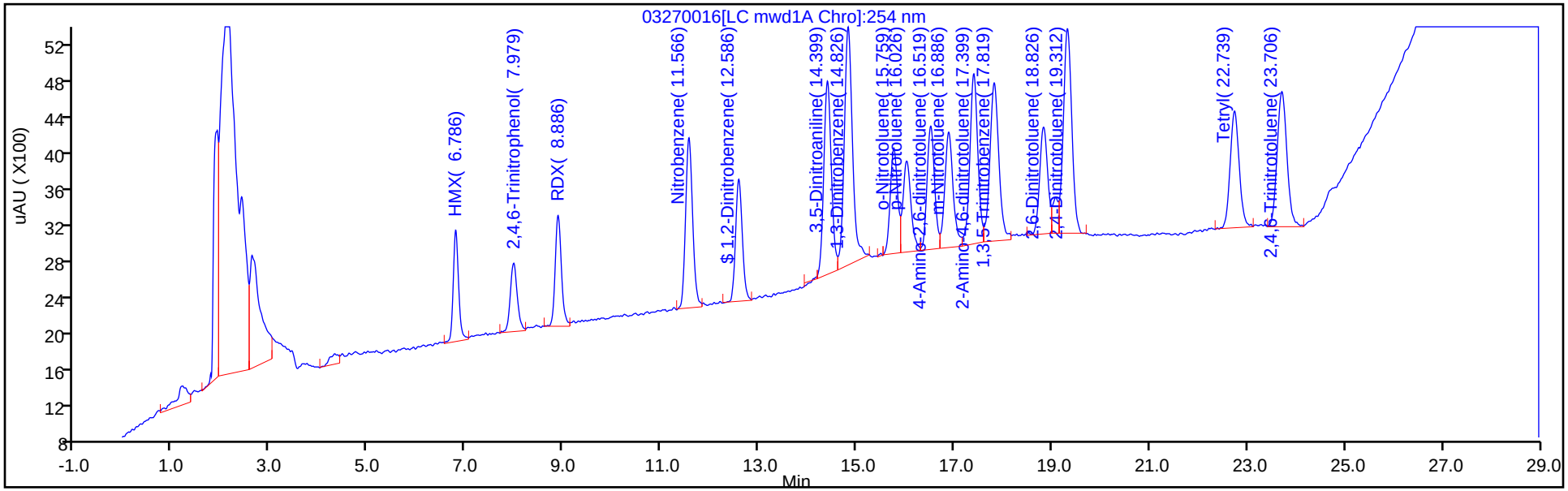
Report Date: 28-Mar-2024 14:09:29 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Denver

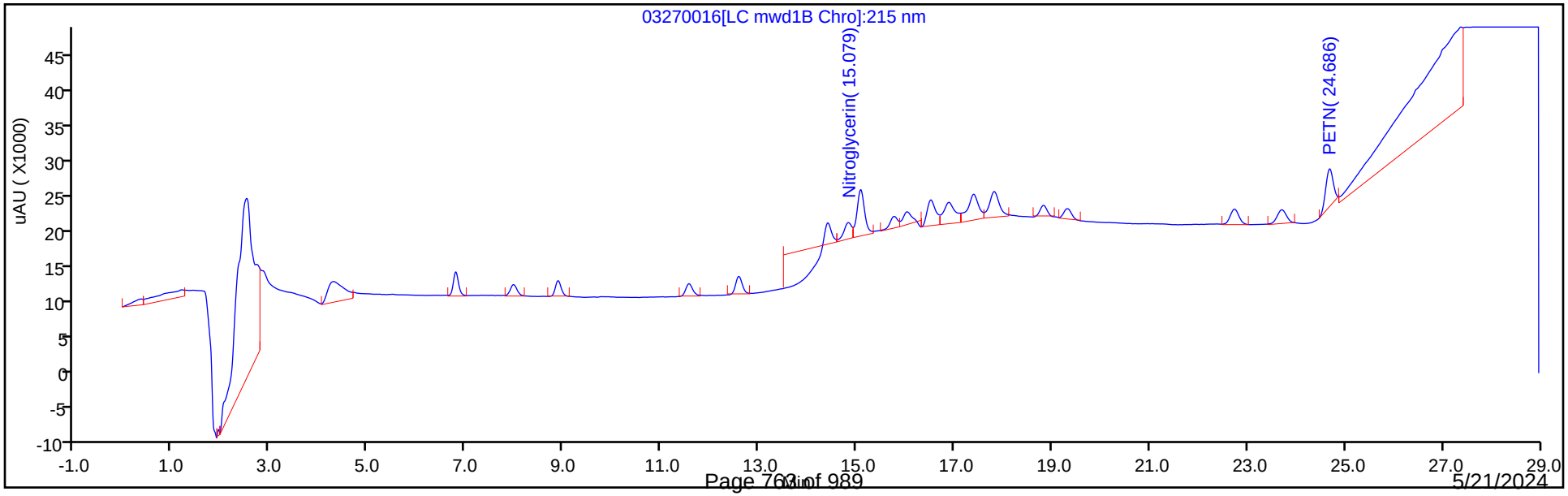
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270016.D

Injection Date:	27-Mar-2024 23:28:41	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	IC INT 3			Worklist Smp#:	16
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

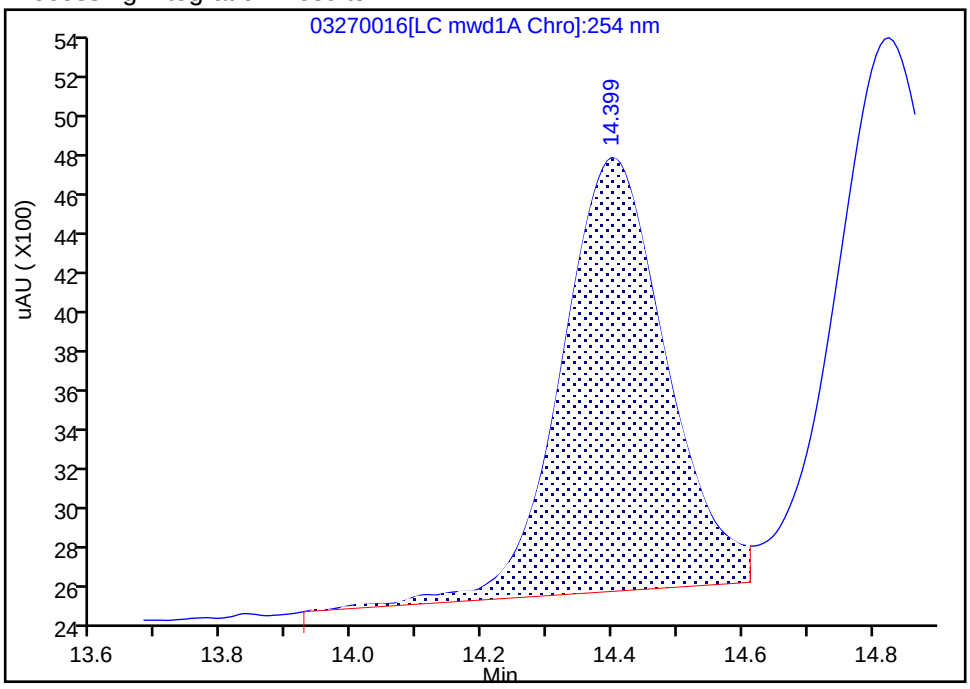
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270016.D				
Injection Date:	27-Mar-2024 23:28:41	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 3				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

11 3,5-Dinitroaniline, CAS: 618-87-1

Signal: 1

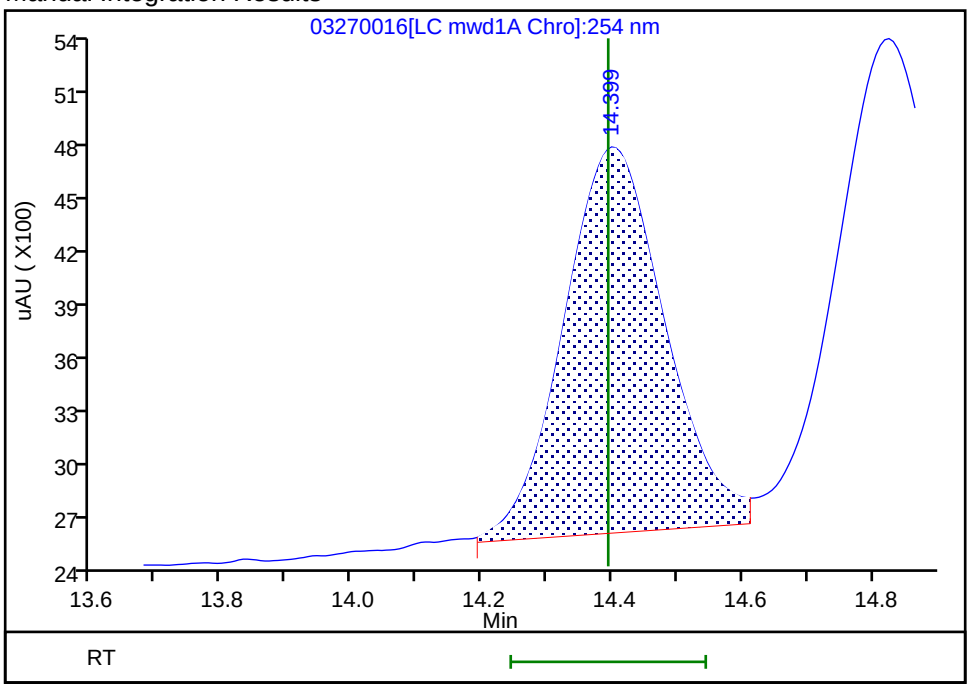
Processing Integration Results

RT: 14.40
Area: 23798
Amount: 0.050100
Amount Units: ug/ml



Manual Integration Results

RT: 14.40
Area: 22622
Amount: 0.051414
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:36:52 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

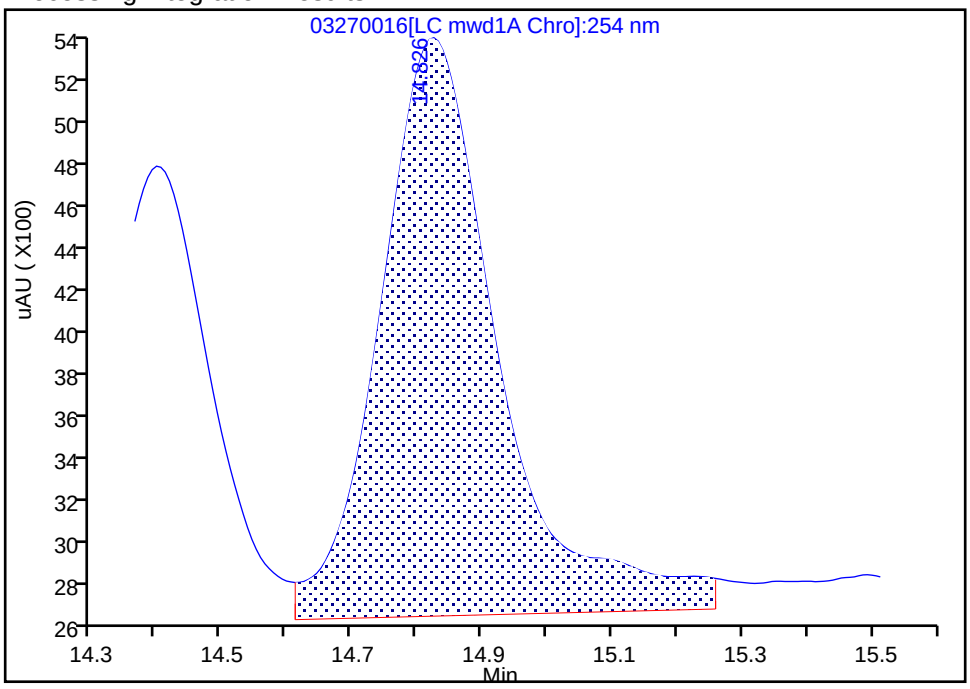
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270016.D				
Injection Date:	27-Mar-2024 23:28:41	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 3				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

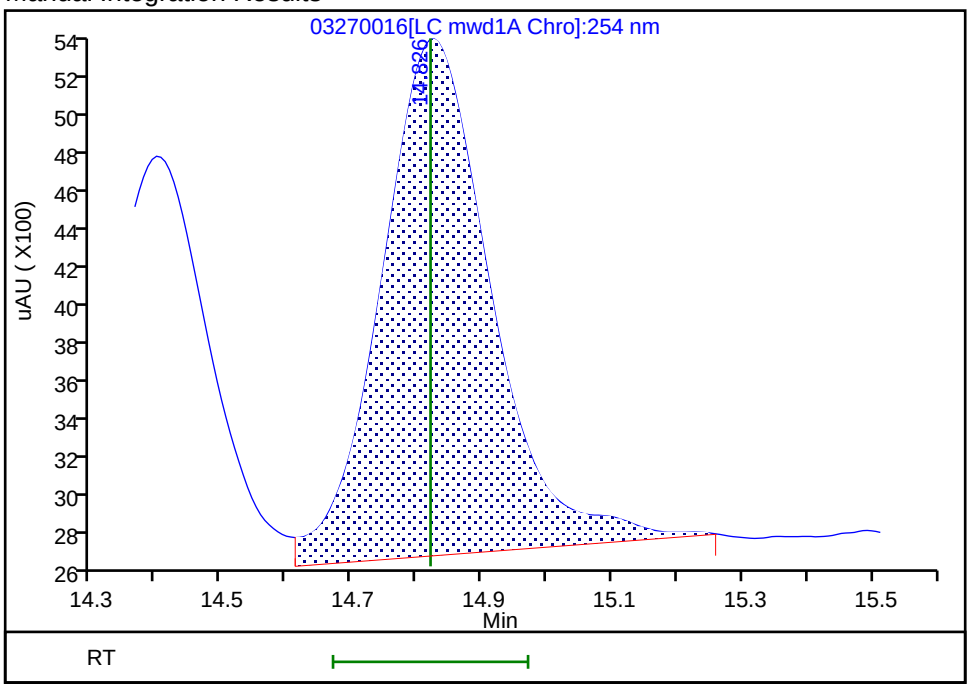
Processing Integration Results

RT: 14.83
Area: 33780
Amount: 0.051704
Amount Units: ug/ml



Manual Integration Results

RT: 14.83
Area: 30462
Amount: 0.050909
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:36:49 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

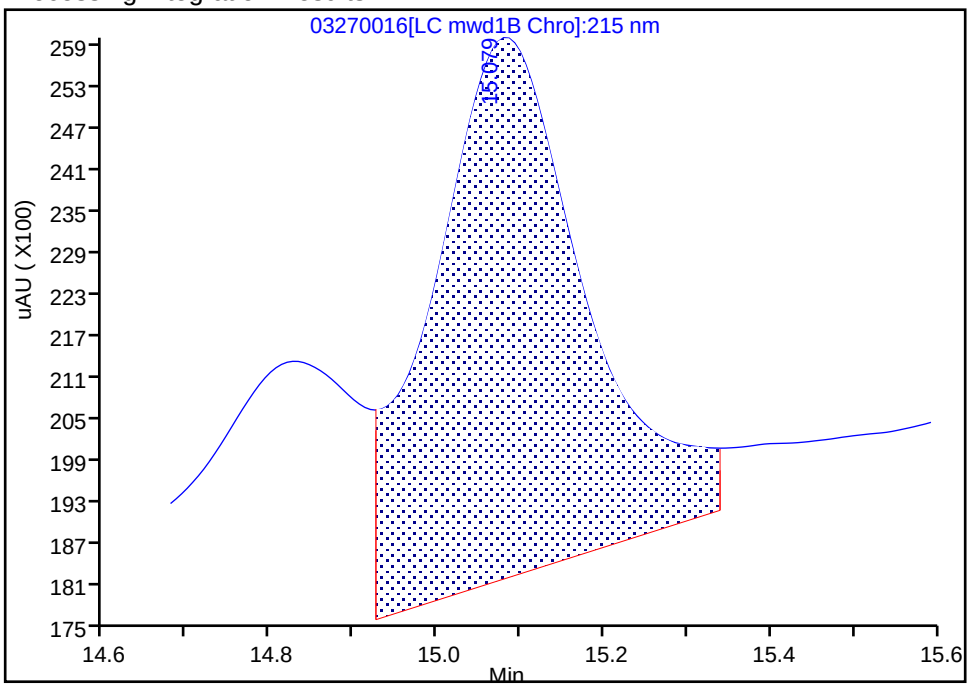
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270016.D				
Injection Date:	27-Mar-2024 23:28:41	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 3				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1B, 215 nm		

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

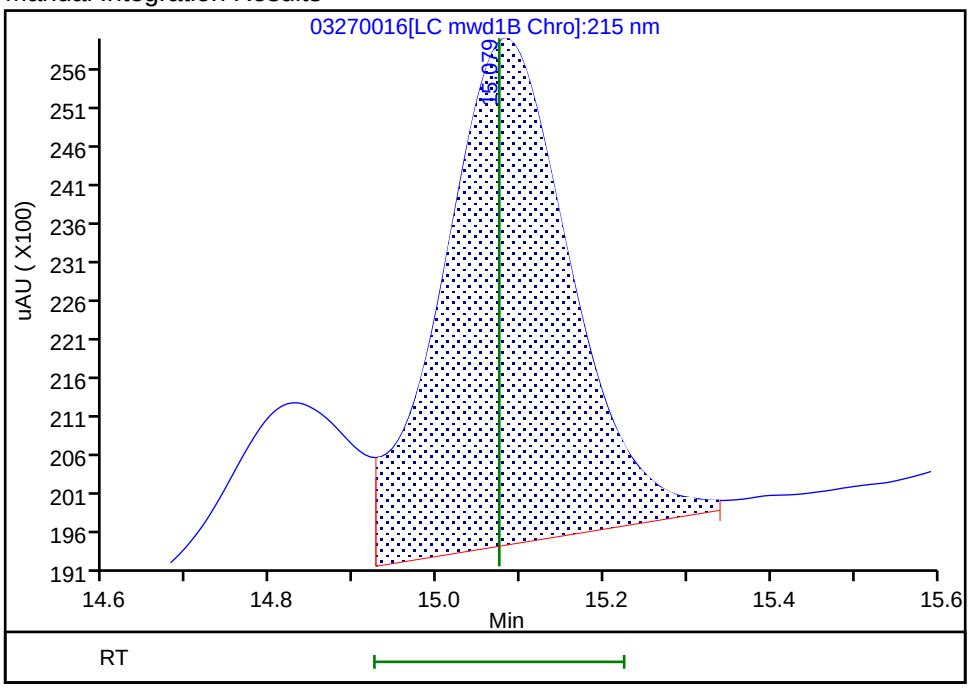
Processing Integration Results

RT: 15.08
Area: 99658
Amount: 0.393968
Amount Units: ug/ml



Manual Integration Results

RT: 15.08
Area: 69985
Amount: 0.516915
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:36:32 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

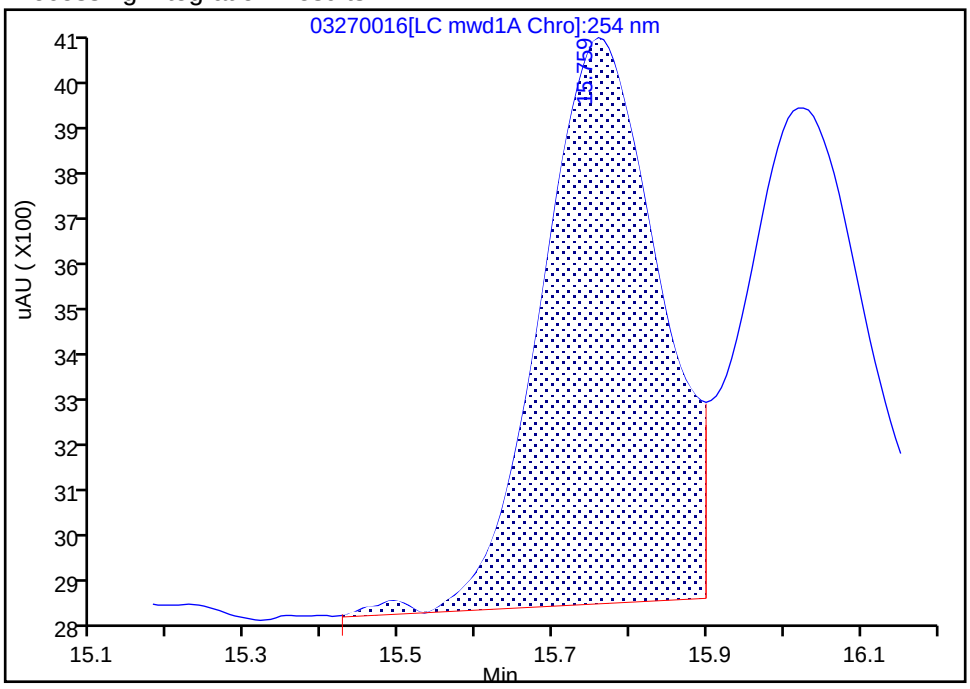
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270016.D				
Injection Date:	27-Mar-2024 23:28:41	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 3				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

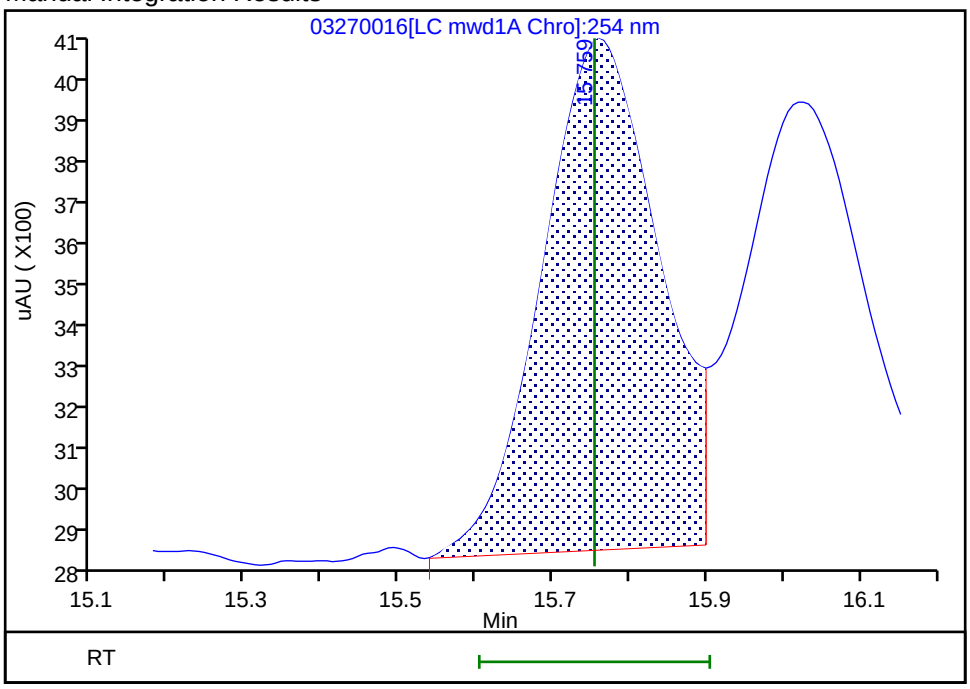
Processing Integration Results

RT: 15.76
Area: 12251
Amount: 0.049220
Amount Units: ug/ml



Manual Integration Results

RT: 15.76
Area: 12161
Amount: 0.049164
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:36:54 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

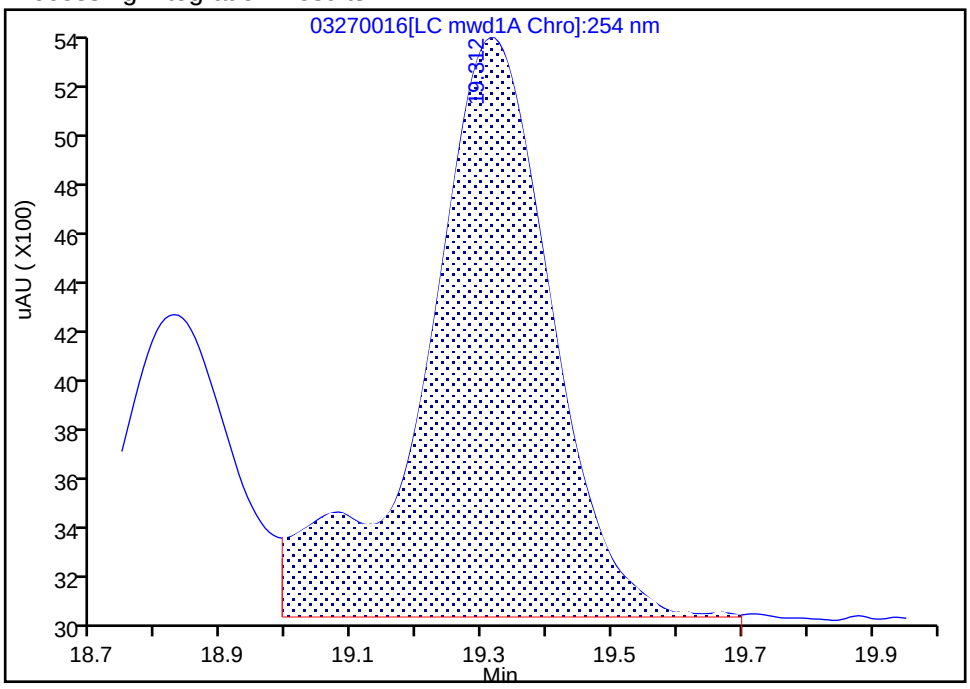
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270016.D				
Injection Date:	27-Mar-2024 23:28:41	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 3				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

22 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

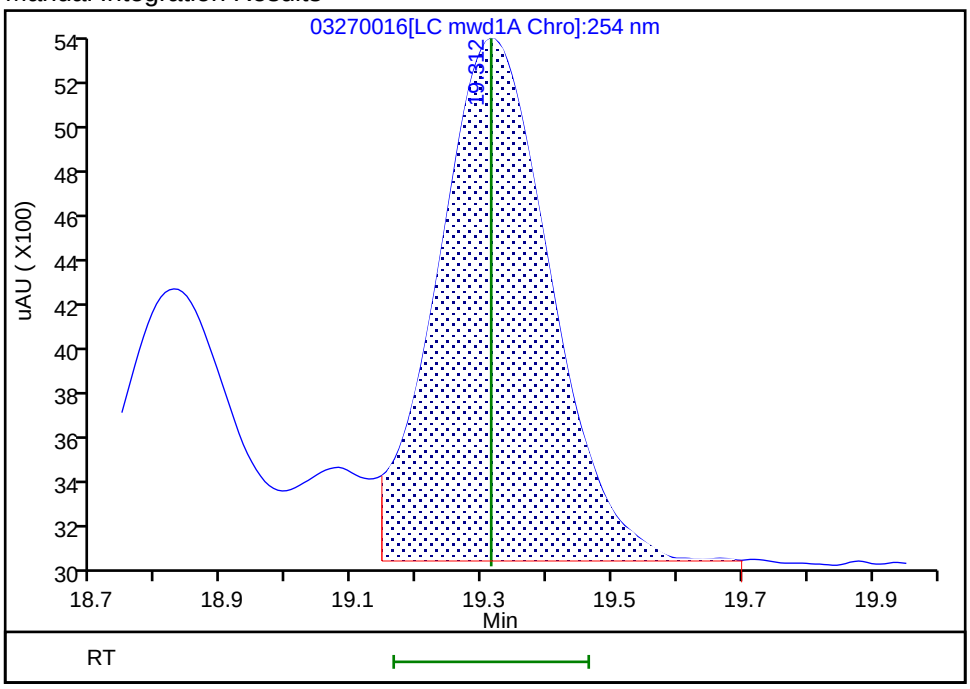
Processing Integration Results

RT: 19.31
Area: 30318
Amount: 0.054379
Amount Units: ug/ml



Manual Integration Results

RT: 19.31
Area: 27016
Amount: 0.049433
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:36:59 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

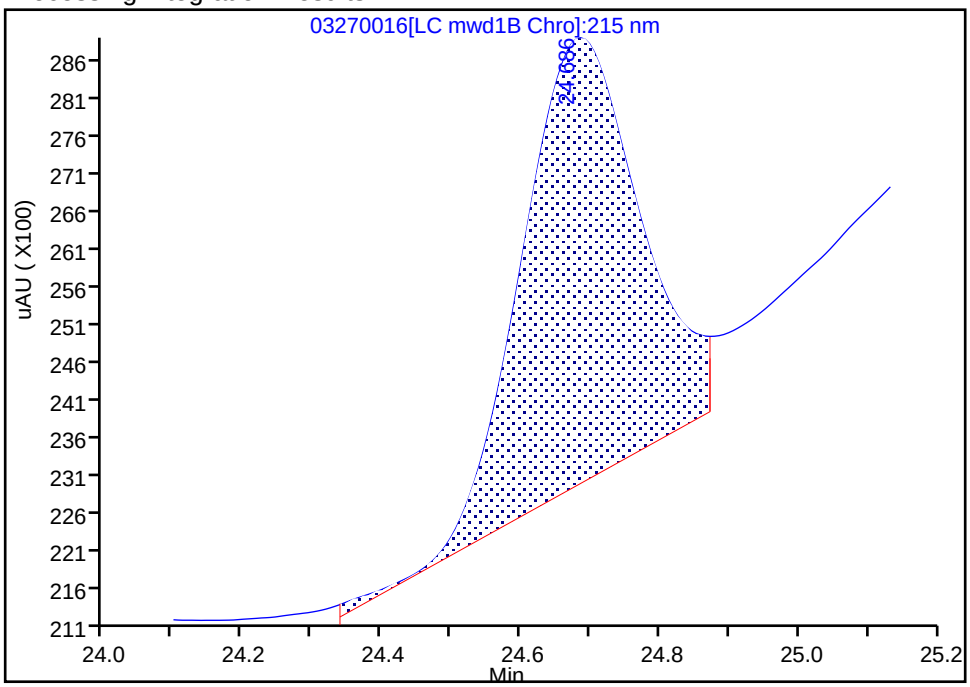
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270016.D				
Injection Date:	27-Mar-2024 23:28:41	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 3				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1B, 215 nm		

25 PETN, CAS: 78-11-5

Signal: 1

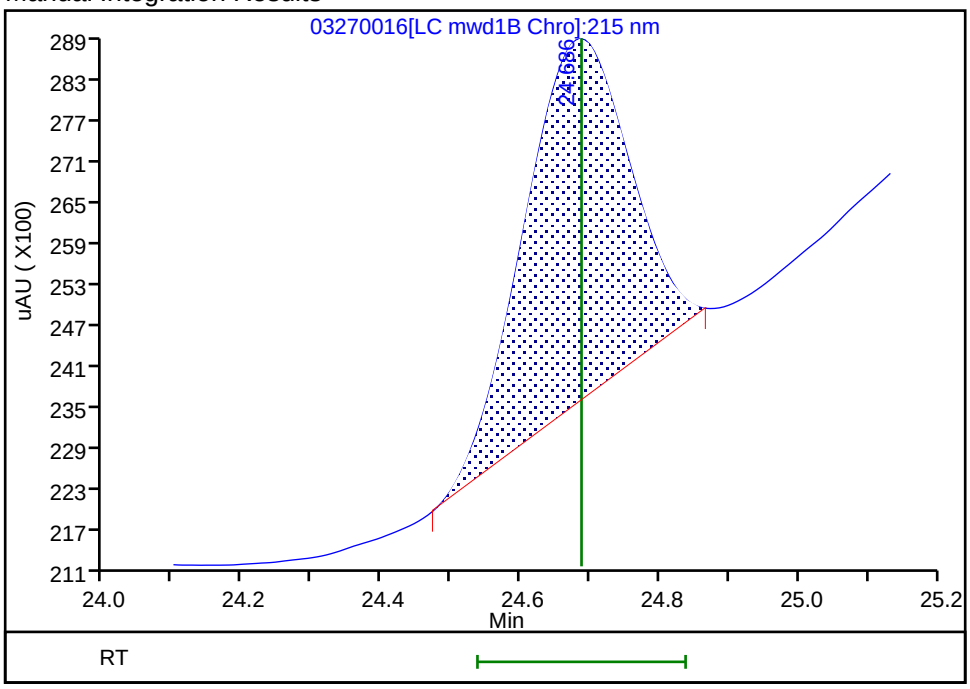
Processing Integration Results

RT: 24.69
Area: 70537
Amount: 0.525042
Amount Units: ug/ml



Manual Integration Results

RT: 24.69
Area: 56701
Amount: 0.467313
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:40:12 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270017.D
Lims ID: IC INT 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2024 00:03:36 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 2
Operator ID: JZ/JG Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub7

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 28-Mar-2024 14:09:30 Calib Date: 28-Mar-2024 05:53:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1687

First Level Reviewer: LV5D Date: 28-Mar-2024 14:09:02

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 HMX	1	6.785	6.787	-0.002	4212	0.0200	0.0220	
7 2,4,6-Trinitrophenol	1	7.985	7.934	0.051	2989	0.0200	0.0199	
8 RDX	1	8.878	8.881	-0.003	4799	0.0200	0.0225	
9 Nitrobenzene	1	11.558	11.554	0.004	7815	0.0200	0.0207	
$ 10 1,2-Dinitrobenzene	1	12.578	12.581	-0.003	5446	0.0200	0.0206	
11 3,5-Dinitroaniline	1	14.391	14.394	-0.003	8366	0.0200	0.0191	M
12 1,3-Dinitrobenzene	1	14.811	14.821	-0.010	11588	0.0200	0.0194	M
13 Nitroglycerin	2	15.071	15.074	-0.003	29624	0.2000	0.2188	M
14 o-Nitrotoluene	1	15.751	15.754	-0.003	5365	0.0200	0.0217	
16 p-Nitrotoluene	1	16.018	16.021	-0.003	5409	0.0200	0.0208	
17 4-Amino-2,6-dinitrotoluene	1	16.498	16.514	-0.016	6841	0.0200	0.0215	
18 m-Nitrotoluene	1	16.878	16.881	-0.003	7013	0.0200	0.0196	
19 2-Amino-4,6-dinitrotoluene	1	17.384	17.394	-0.010	9727	0.0200	0.0220	
20 1,3,5-Trinitrobenzene	1	17.804	17.807	-0.003	9936	0.0200	0.0231	
21 2,6-Dinitrotoluene	1	18.811	18.827	-0.016	5223	0.0200	0.0191	
22 2,4-Dinitrotoluene	1	19.311	19.314	-0.003	10999	0.0200	0.0201	
23 Tetryl	1	22.725	22.741	-0.016	6925	0.0200	0.0206	
24 2,4,6-Trinitrotoluene	1	23.705	23.707	-0.002	8416	0.0200	0.0202	
25 PETN	2	24.685	24.687	-0.002	21186	0.2000	0.1957	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00079 Amount Added: 2.00 Units: uL

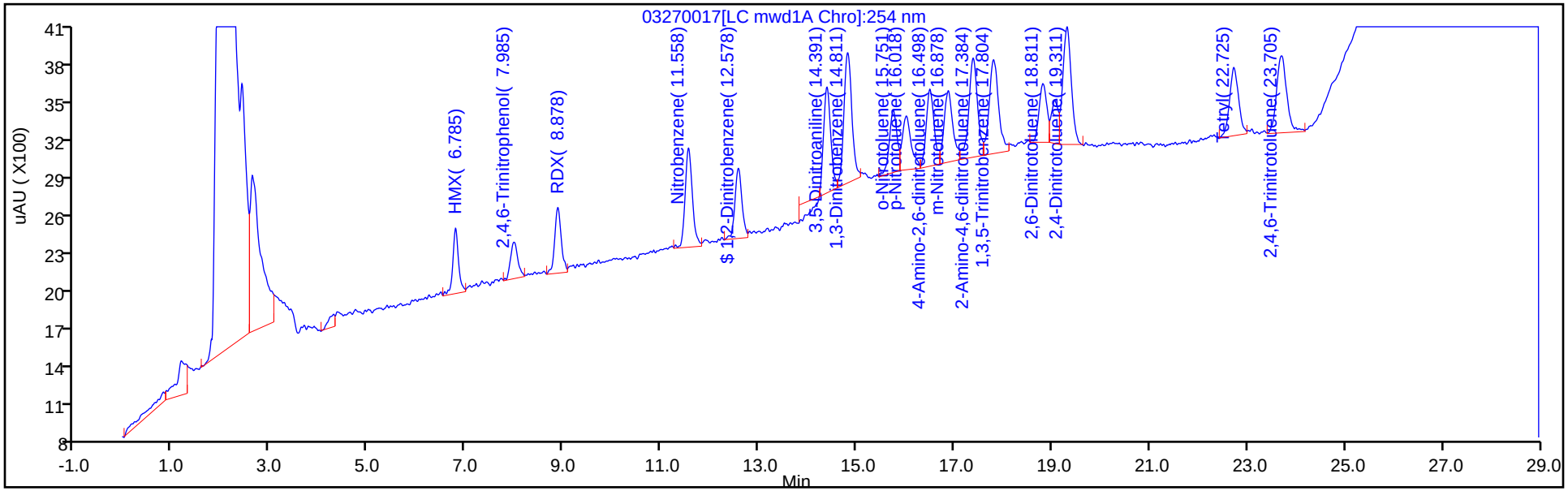
Report Date: 28-Mar-2024 14:09:30 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Denver

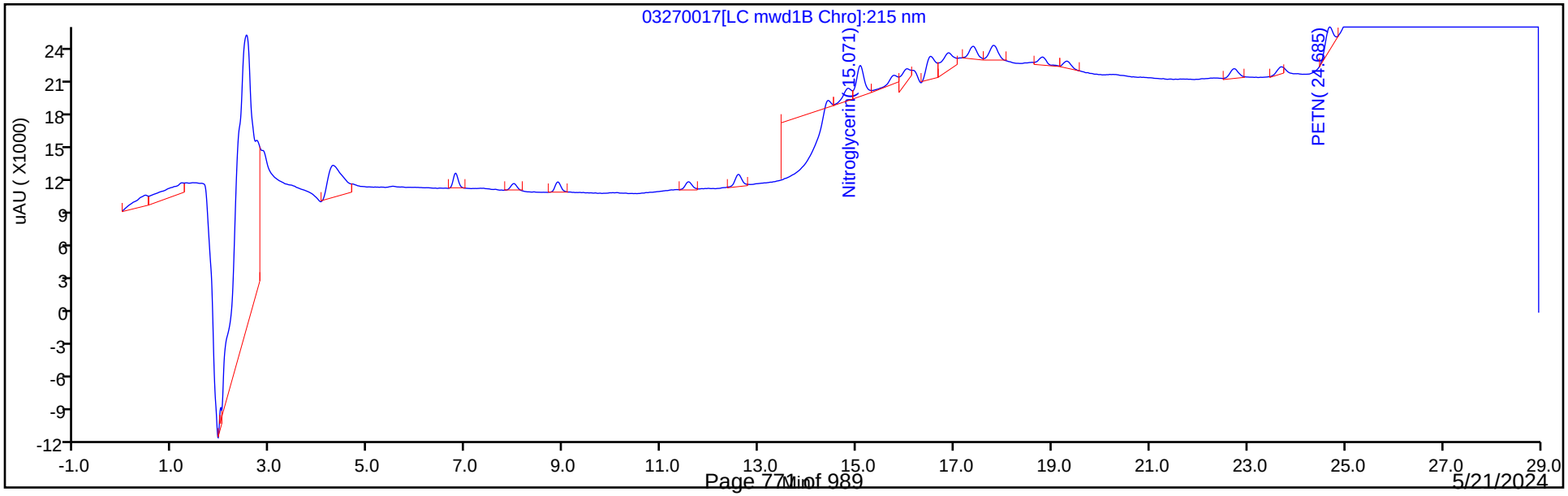
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270017.D

Injection Date:	28-Mar-2024 00:03:36	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	IC INT 2			Worklist Smp#:	17
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

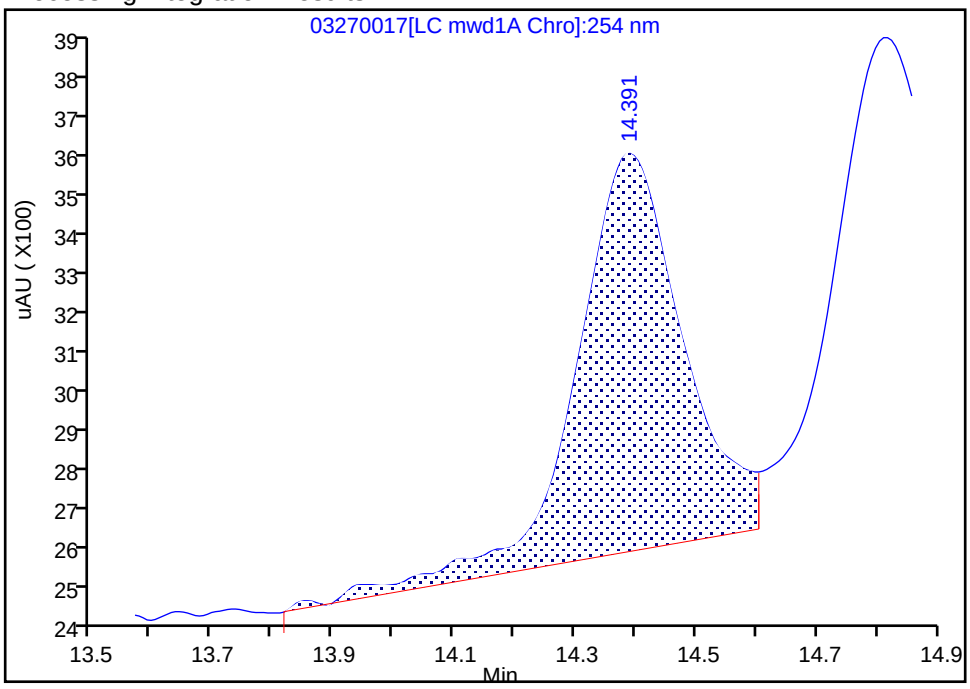
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270017.D				
Injection Date:	28-Mar-2024 00:03:36	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 2				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

11 3,5-Dinitroaniline, CAS: 618-87-1

Signal: 1

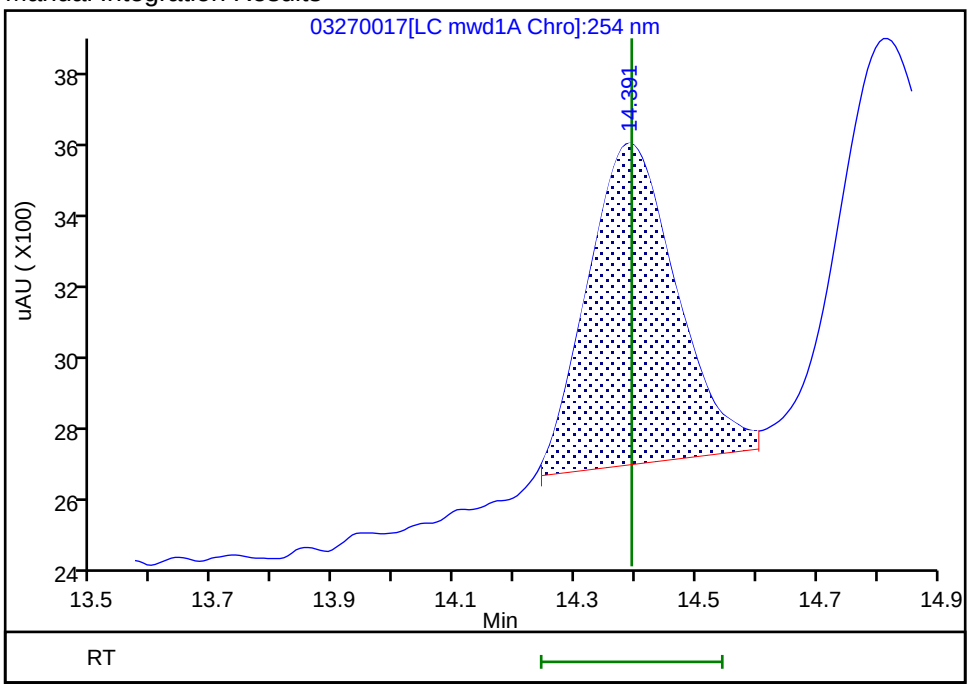
Processing Integration Results

RT: 14.39
Area: 11417
Amount: 0.022003
Amount Units: ug/ml



Manual Integration Results

RT: 14.39
Area: 8366
Amount: 0.019087
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:37:29 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

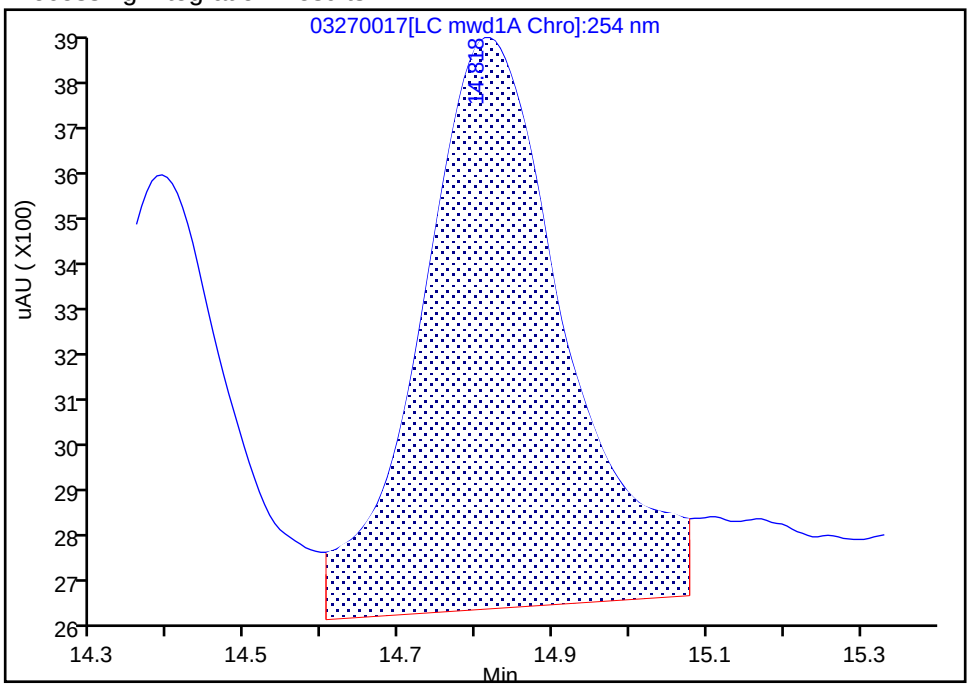
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270017.D				
Injection Date:	28-Mar-2024 00:03:36	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 2				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

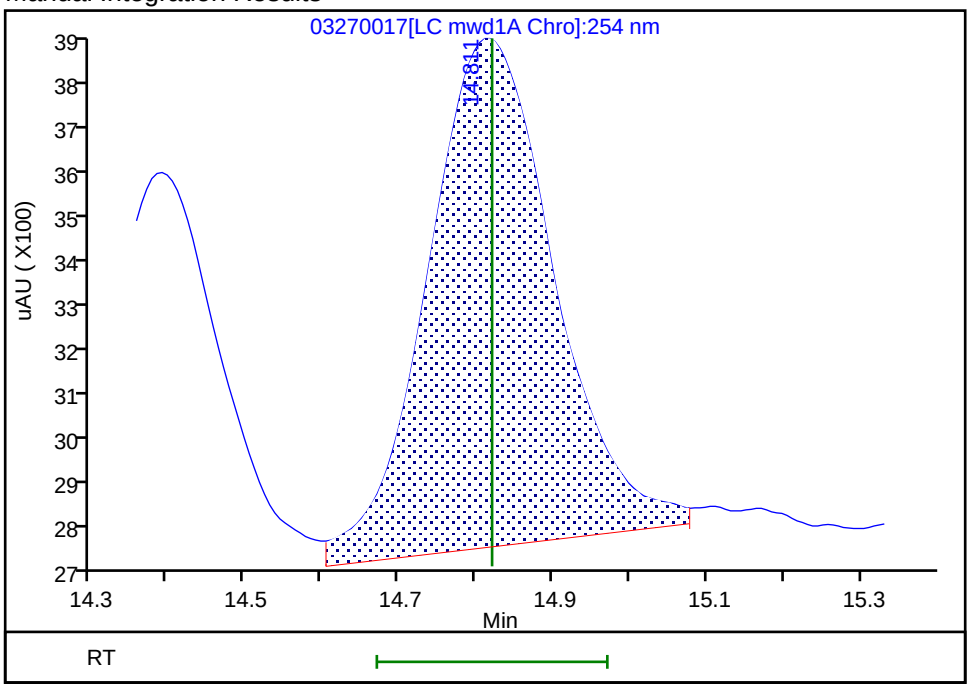
Processing Integration Results

RT: 14.82
Area: 14456
Amount: 0.022379
Amount Units: ug/ml



Manual Integration Results

RT: 14.81
Area: 11588
Amount: 0.019366
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:37:26 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

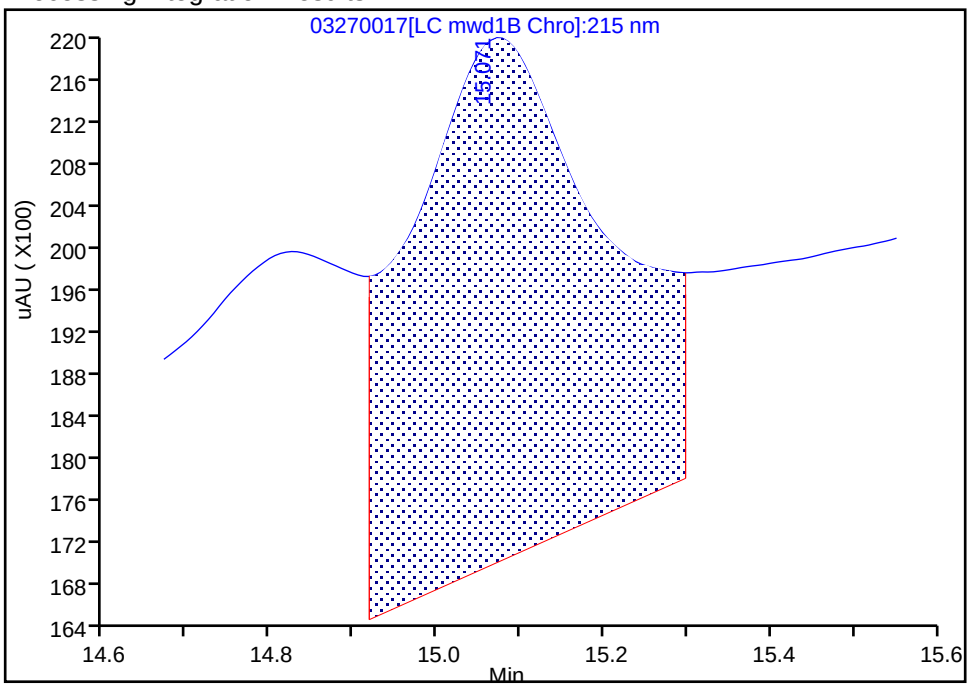
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270017.D				
Injection Date:	28-Mar-2024 00:03:36	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 2				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1B, 215 nm		

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

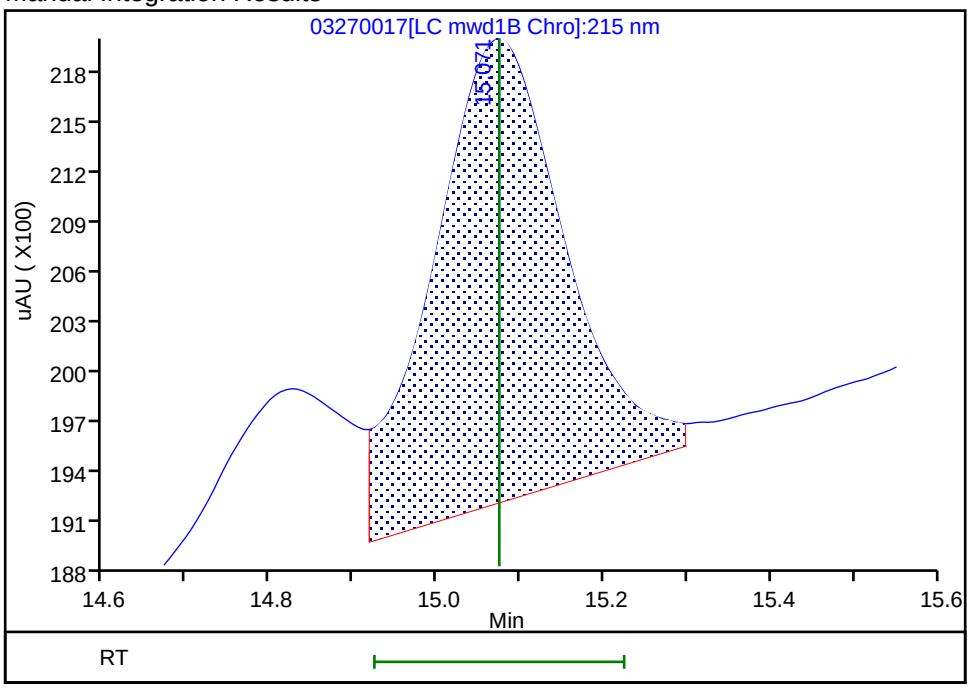
Processing Integration Results

RT: 15.07
Area: 79624
Amount: 0.323195
Amount Units: ug/ml



Manual Integration Results

RT: 15.07
Area: 29624
Amount: 0.218805
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:37:38 -06:00:00 (UTC)
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

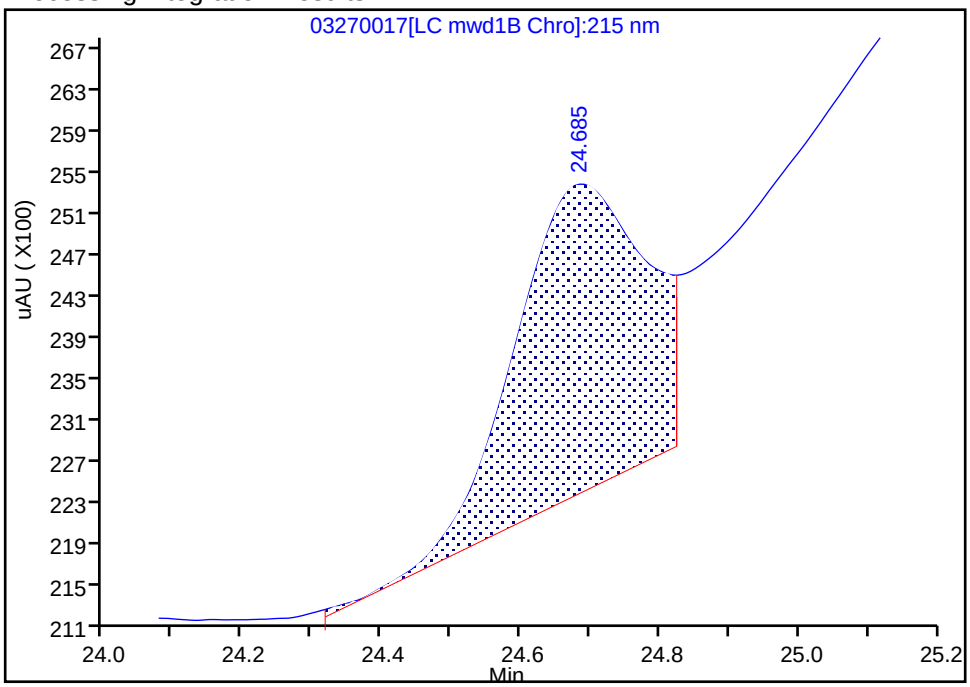
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270017.D
Injection Date: 28-Mar-2024 00:03:36 Instrument ID: CHHPLC_X5
Lims ID: IC INT 2
Client ID:
Operator ID: JZ/JG ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X5_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC mwd1B, 215 nm

25 PETN, CAS: 78-11-5

Signal: 1

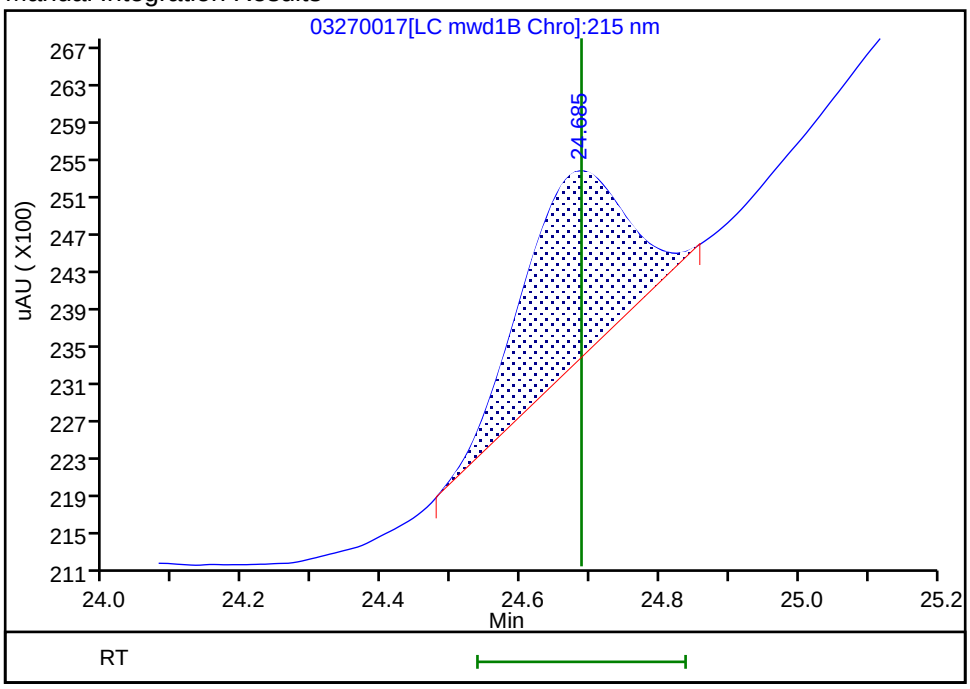
Processing Integration Results

RT: 24.68
Area: 38785
Amount: 0.297974
Amount Units: ug/ml



Manual Integration Results

RT: 24.68
Area: 21186
Amount: 0.195690
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:40:17 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270018.D
Lims ID: IC INT 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2024 00:38:31 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 1
Operator ID: JZ/JG Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub7

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 28-Mar-2024 14:09:31 Calib Date: 28-Mar-2024 05:53:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1687

First Level Reviewer: LV5D Date: 28-Mar-2024 14:09:13

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 HMX	1	6.792	6.787	0.005	2536	0.0100	0.0132	
7 2,4,6-Trinitrophenol	1	7.978	7.934	0.044	1687	0.0100	0.0112	
8 RDX	1	8.885	8.881	0.004	2368	0.0100	0.0111	
9 Nitrobenzene	1	11.558	11.554	0.004	4113	0.0100	0.0109	
$ 10 1,2-Dinitrobenzene	1	12.578	12.581	-0.003	3032	0.0100	0.0115	
11 3,5-Dinitroaniline	1	14.392	14.394	-0.002	4425	0.0100	0.0101	M
12 1,3-Dinitrobenzene	1	14.812	14.821	-0.009	5312	0.0100	0.008878	M
13 Nitroglycerin	2	15.072	15.074	-0.002	12537	0.1000	0.0926	M
14 o-Nitrotoluene	1	15.758	15.754	0.004	2612	0.0100	0.0106	M
16 p-Nitrotoluene	1	16.012	16.021	-0.009	3049	0.0100	0.009864	M
17 4-Amino-2,6-dinitrotoluene	1	16.498	16.514	-0.016	3564	0.0100	0.009666	M
18 m-Nitrotoluene	1	16.878	16.881	-0.003	4479	0.0100	0.0101	M
19 2-Amino-4,6-dinitrotoluene	1	17.372	17.394	-0.022	4751	0.0100	0.009500	M
20 1,3,5-Trinitrobenzene	1	17.812	17.807	0.005	4376	0.0100	0.0102	M
21 2,6-Dinitrotoluene	1	18.818	18.827	-0.009	2716	0.0100	0.0100	
22 2,4-Dinitrotoluene	1	19.298	19.314	-0.016	5455	0.0100	0.0100	
23 Tetryl	1	22.725	22.741	-0.016	3690	0.0100	0.0110	
24 2,4,6-Trinitrotoluene	1	23.692	23.707	-0.015	4534	0.0100	0.0109	
25 PETN	2	24.825	24.687	0.138	8982	0.1000	0.1024	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00079 Amount Added: 1.00 Units: uL

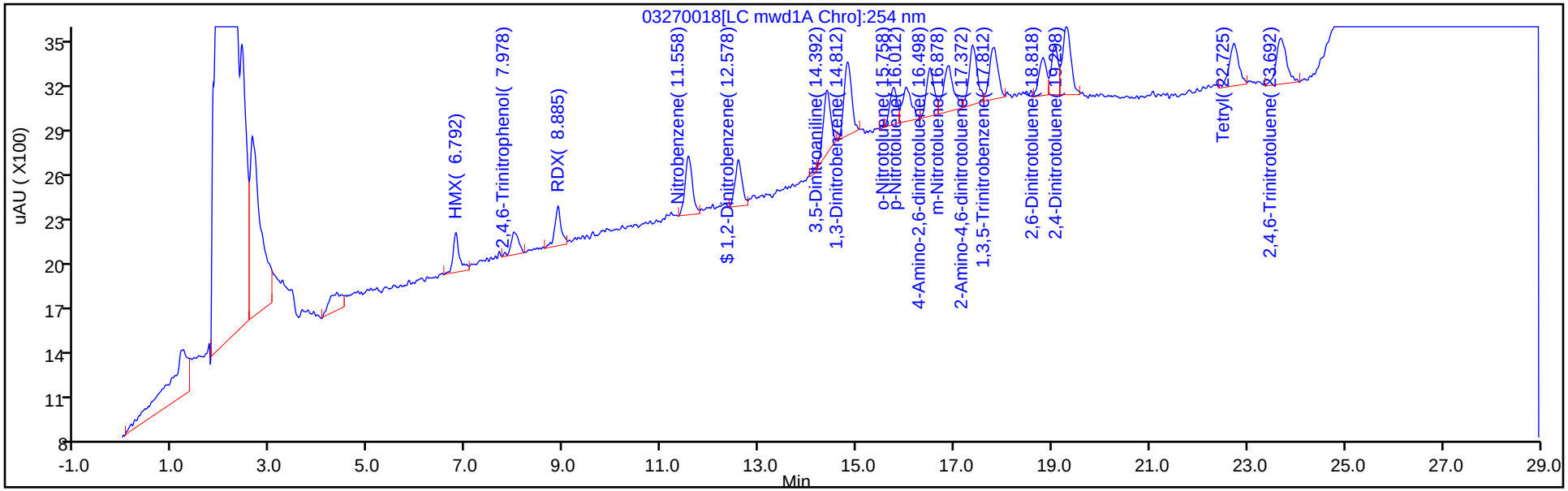
Report Date: 28-Mar-2024 14:09:32 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Denver

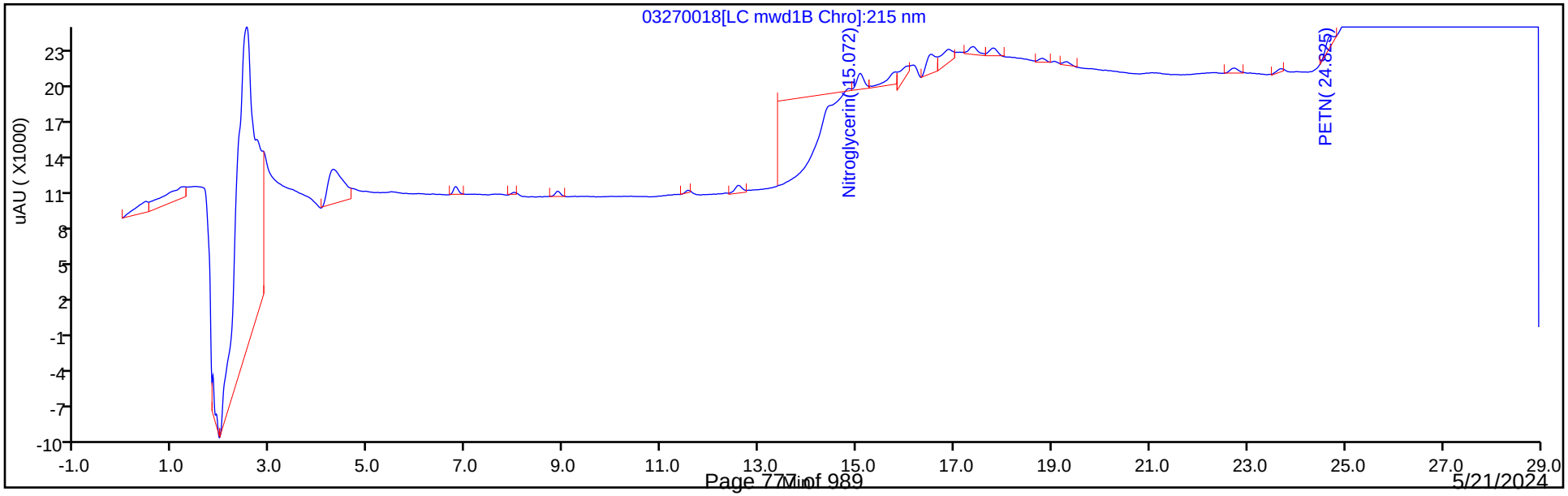
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270018.D

Injection Date:	28-Mar-2024 00:38:31	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	IC INT 1			Worklist Smp#:	18
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

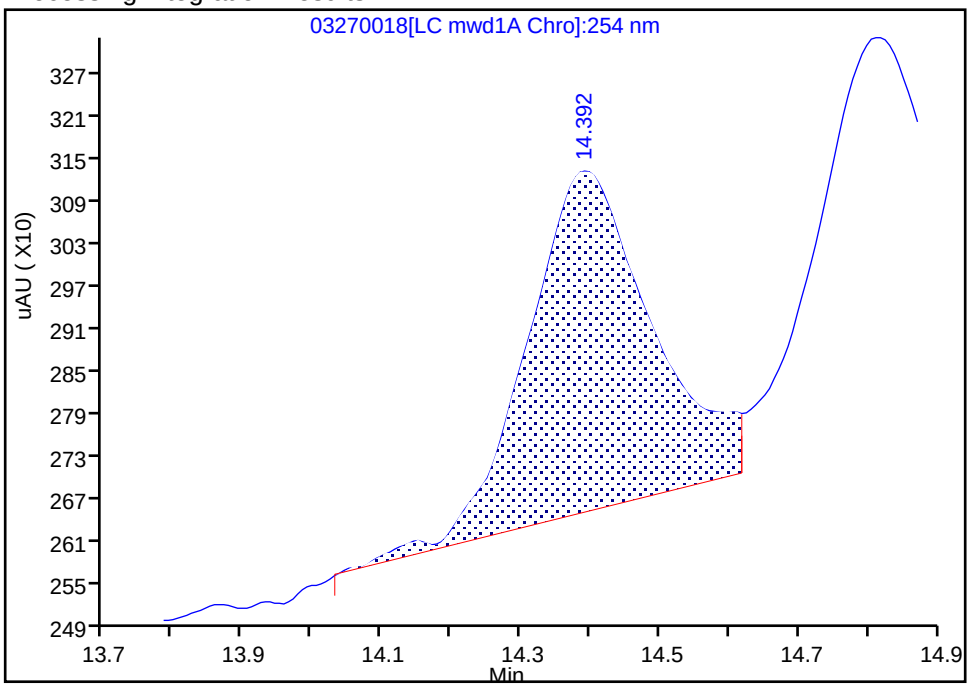
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270018.D				
Injection Date:	28-Mar-2024 00:38:31	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 1				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

11 3,5-Dinitroaniline, CAS: 618-87-1

Signal: 1

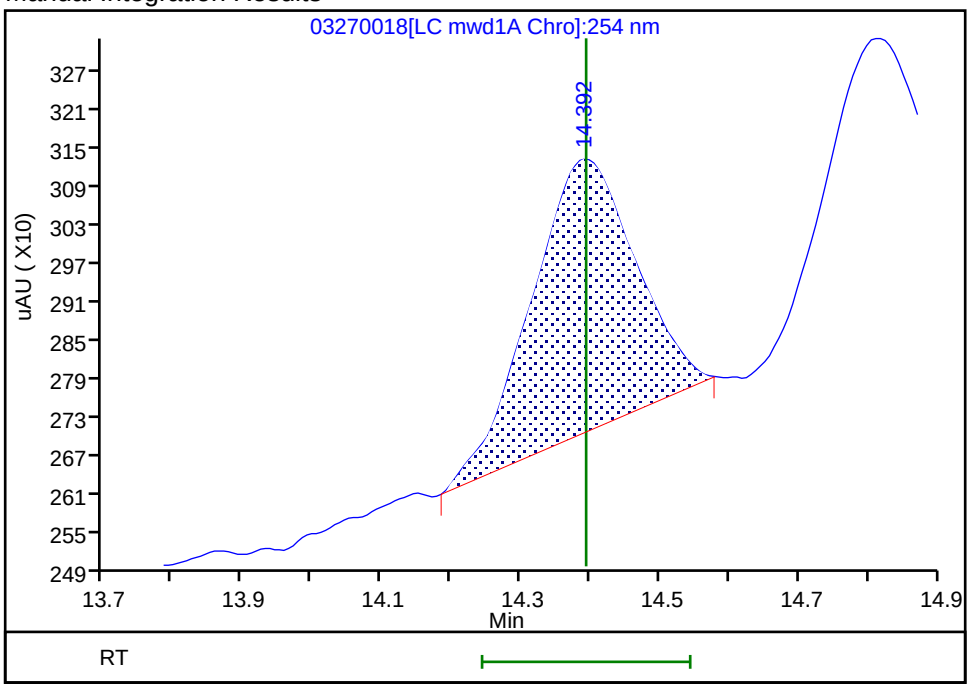
Processing Integration Results

RT: 14.39
Area: 6010
Amount: 0.010889
Amount Units: ug/ml



Manual Integration Results

RT: 14.39
Area: 4425
Amount: 0.010150
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:38:35 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

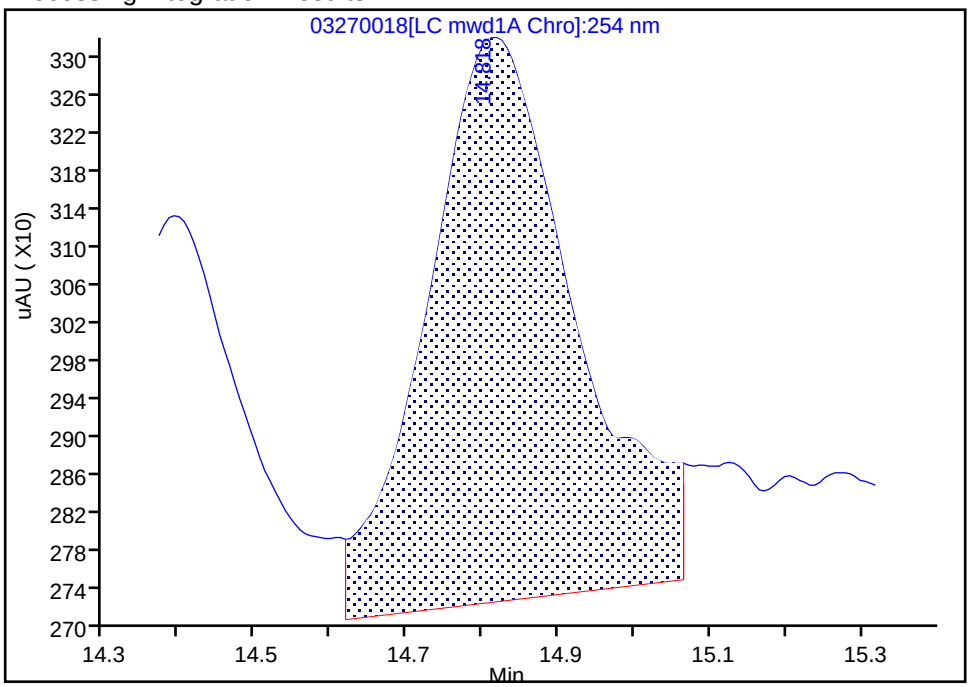
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270018.D
Injection Date: 28-Mar-2024 00:38:31 Instrument ID: CHHPLC_X5
Lims ID: IC INT 1
Client ID:
Operator ID: JZ/JG ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X5_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC mwd1A, 254 nm

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

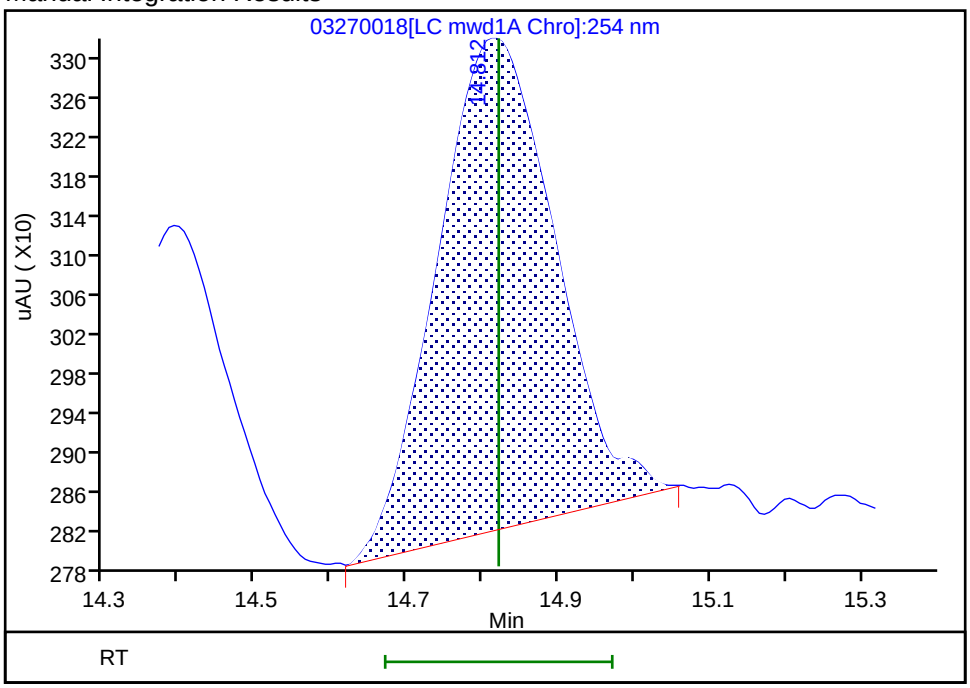
Processing Integration Results

RT: 14.82
Area: 8115
Amount: 0.012880
Amount Units: ug/ml



Manual Integration Results

RT: 14.81
Area: 5312
Amount: 0.008878
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:38:44 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

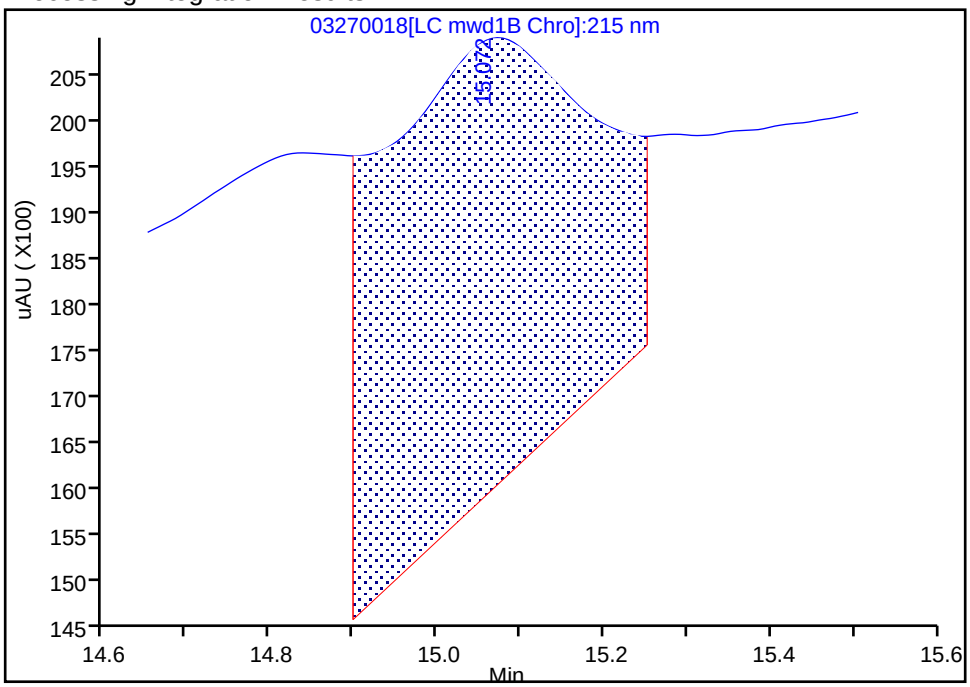
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270018.D				
Injection Date:	28-Mar-2024 00:38:31	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 1				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1B, 215 nm		

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

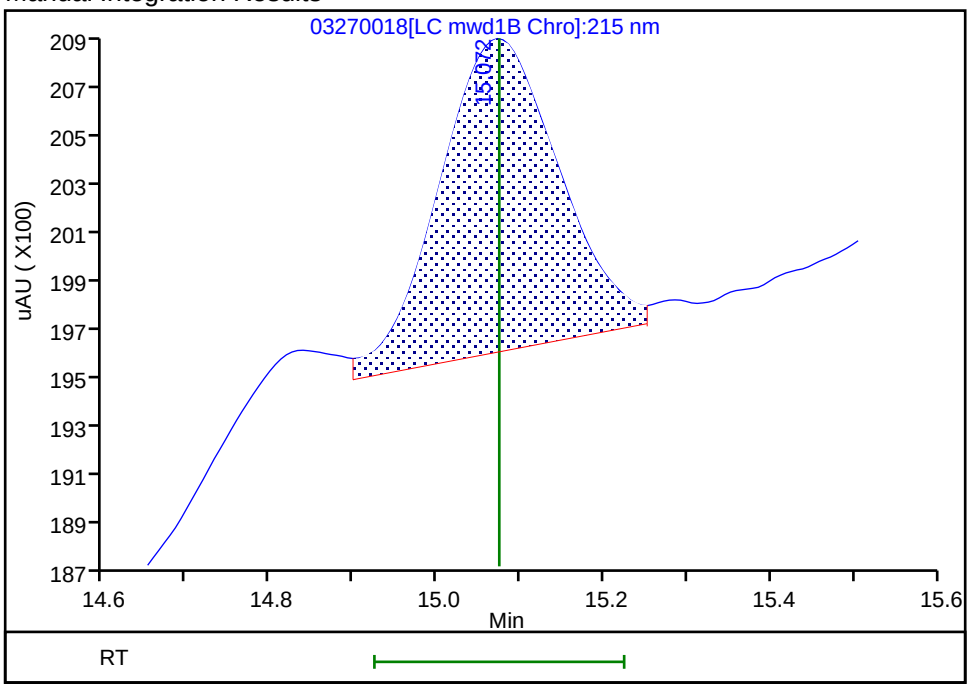
Processing Integration Results

RT: 15.07
Area: 87415
Amount: 0.399908
Amount Units: ug/ml



Manual Integration Results

RT: 15.07
Area: 12537
Amount: 0.092599
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:37:46 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

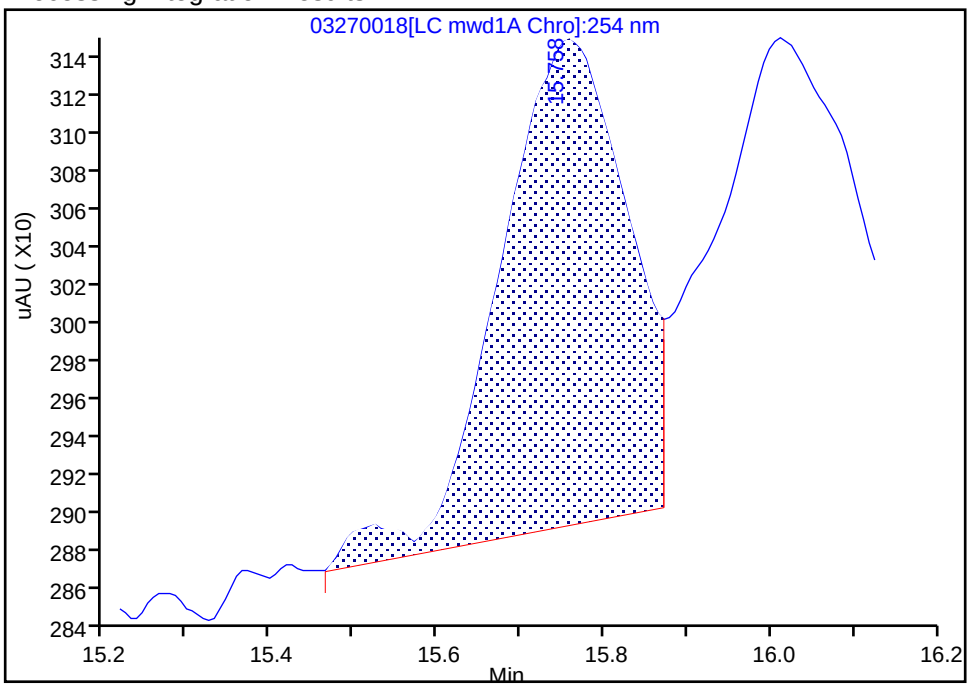
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270018.D				
Injection Date:	28-Mar-2024 00:38:31	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 1				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

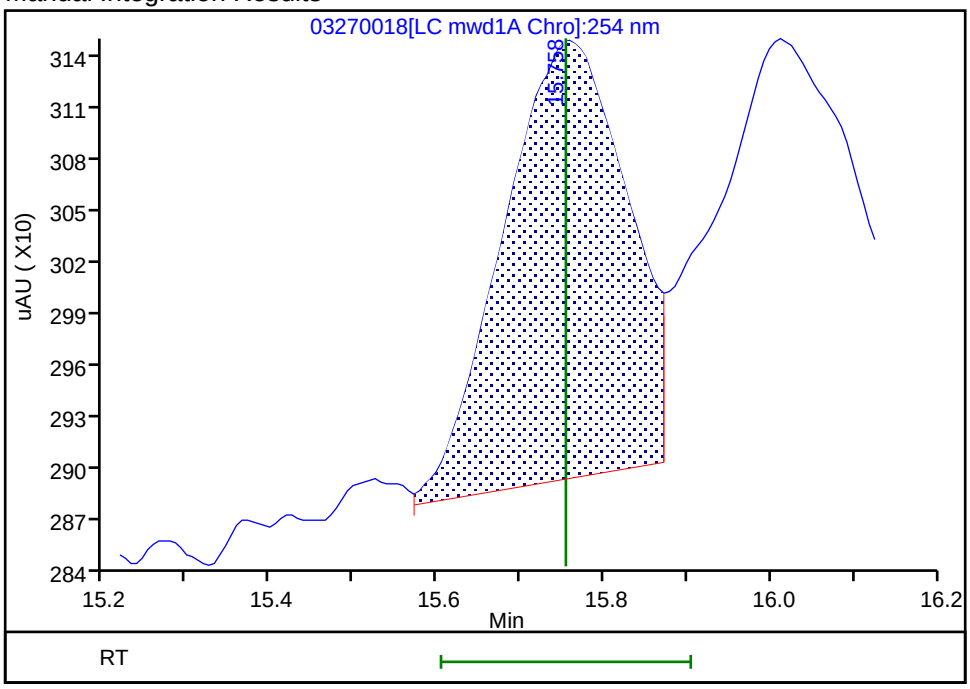
Processing Integration Results

RT: 15.76
Area: 2708
Amount: 0.010888
Amount Units: ug/ml



Manual Integration Results

RT: 15.76
Area: 2612
Amount: 0.010560
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:39:02 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

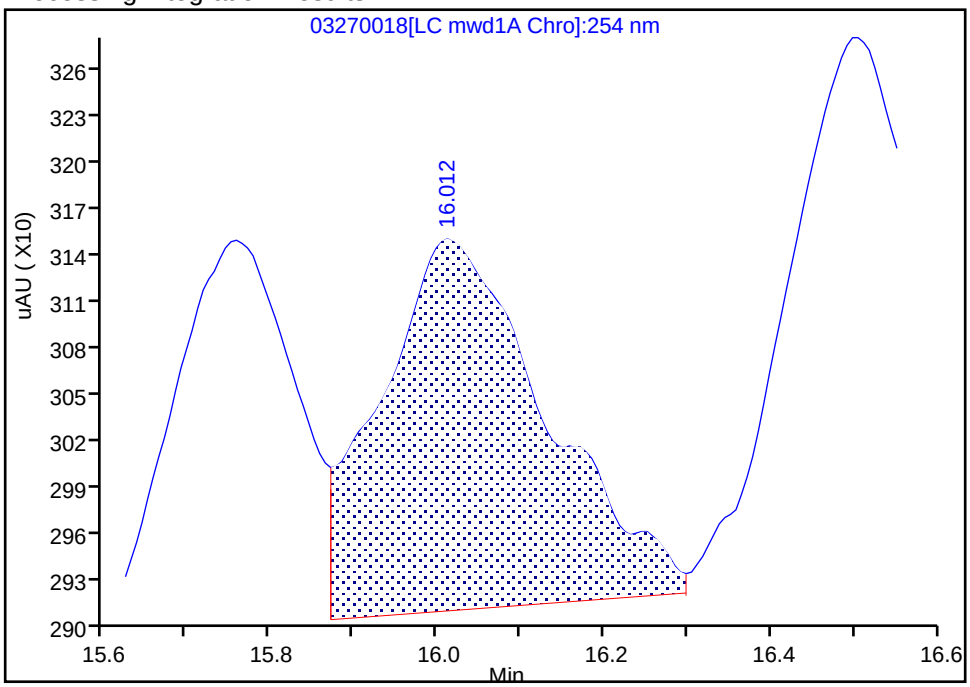
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270018.D				
Injection Date:	28-Mar-2024 00:38:31	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 1				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

16 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

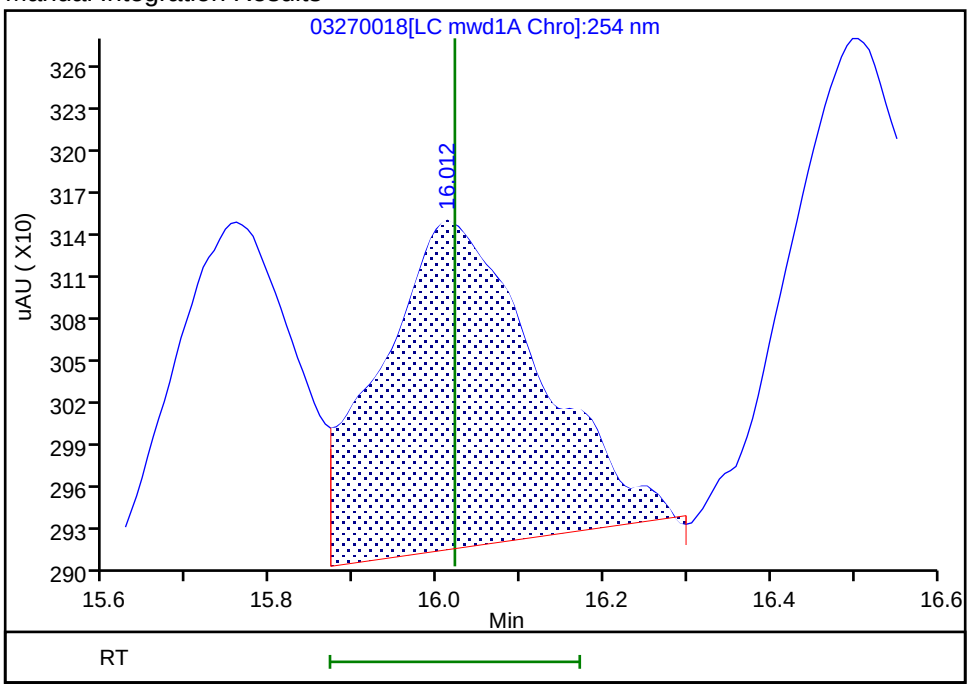
Processing Integration Results

RT: 16.01
Area: 3305
Amount: 0.013868
Amount Units: ug/ml



Manual Integration Results

RT: 16.01
Area: 3049
Amount: 0.009864
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:38:57 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

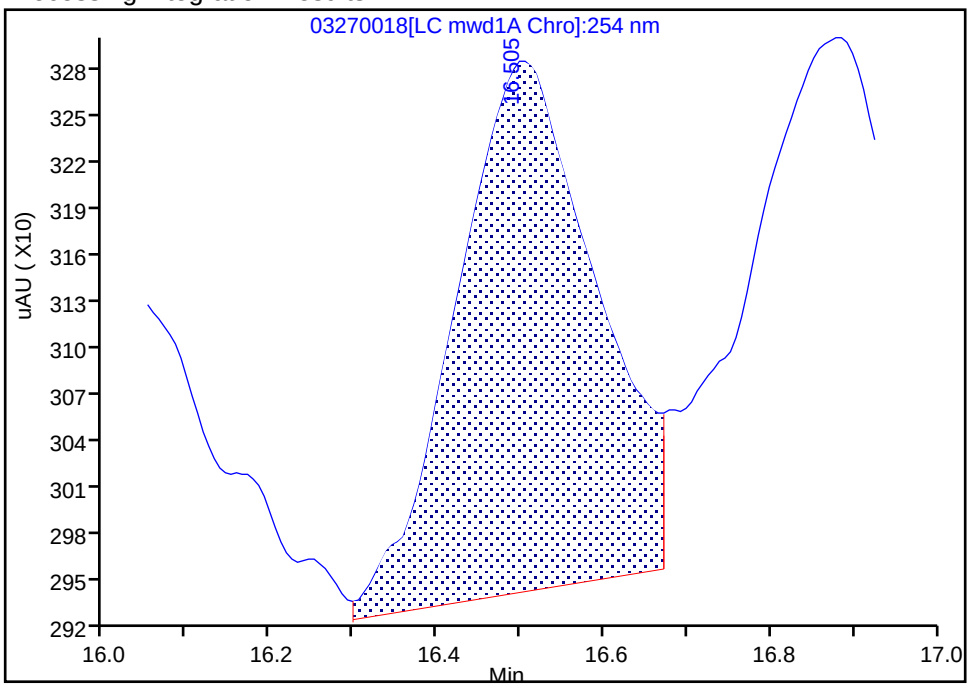
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270018.D				
Injection Date:	28-Mar-2024 00:38:31	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 1				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

17 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

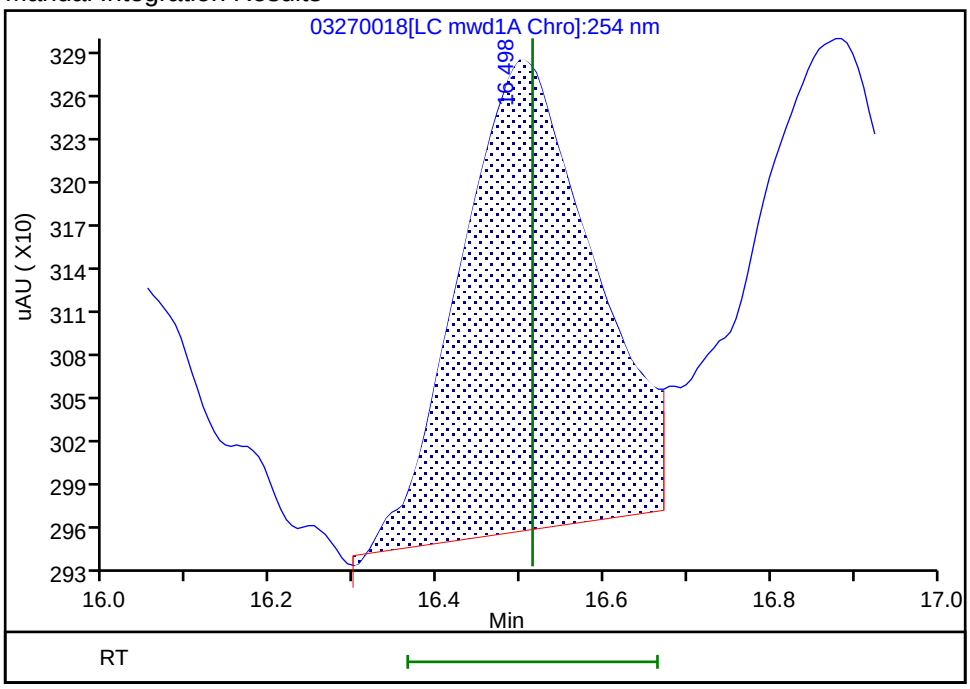
Processing Integration Results

RT: 16.50
Area: 3978
Amount: 0.013214
Amount Units: ug/ml



Manual Integration Results

RT: 16.50
Area: 3564
Amount: 0.009666
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:38:57 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

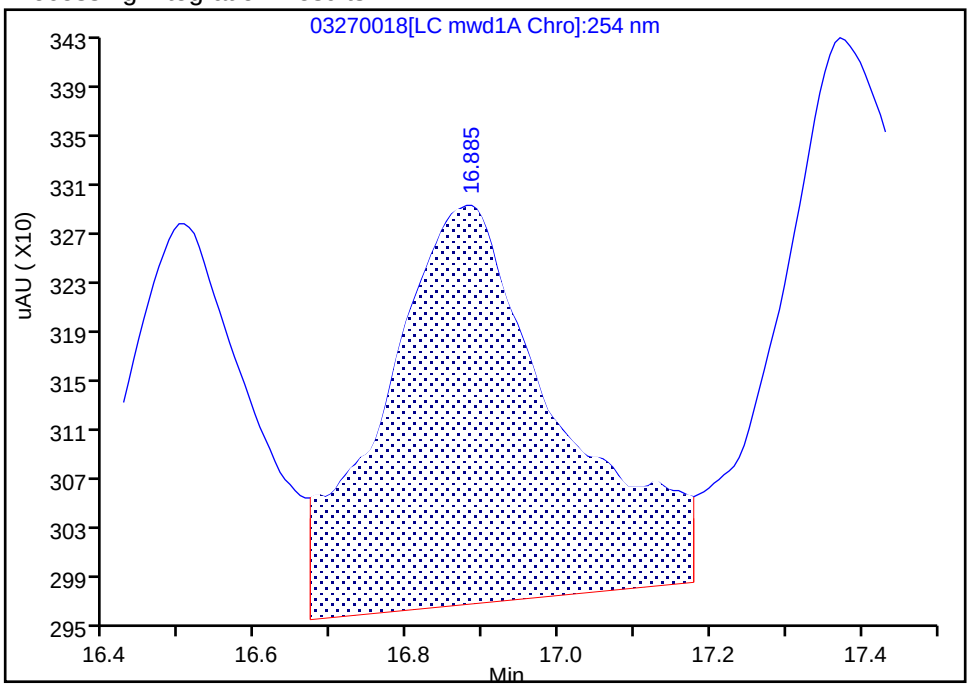
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270018.D
Injection Date: 28-Mar-2024 00:38:31 Instrument ID: CHHPLC_X5
Lims ID: IC INT 1
Client ID:
Operator ID: JZ/JG ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X5_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC mwd1A, 254 nm

18 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

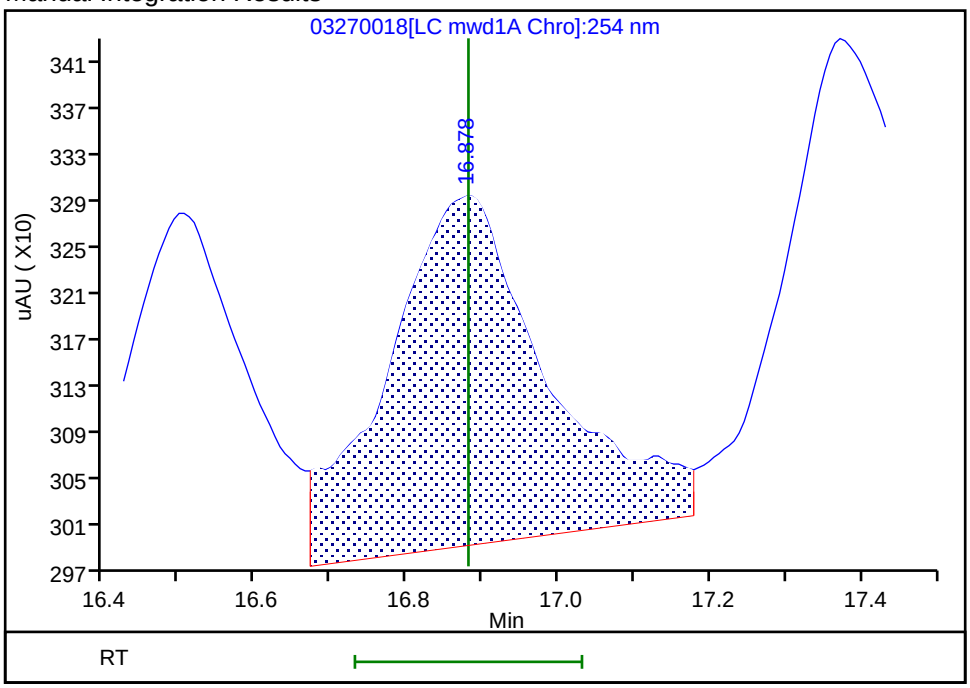
Processing Integration Results

RT: 16.88
Area: 5194
Amount: 0.010694
Amount Units: ug/ml



Manual Integration Results

RT: 16.88
Area: 4479
Amount: 0.010150
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:38:57 -06:00:00 (UTC)
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

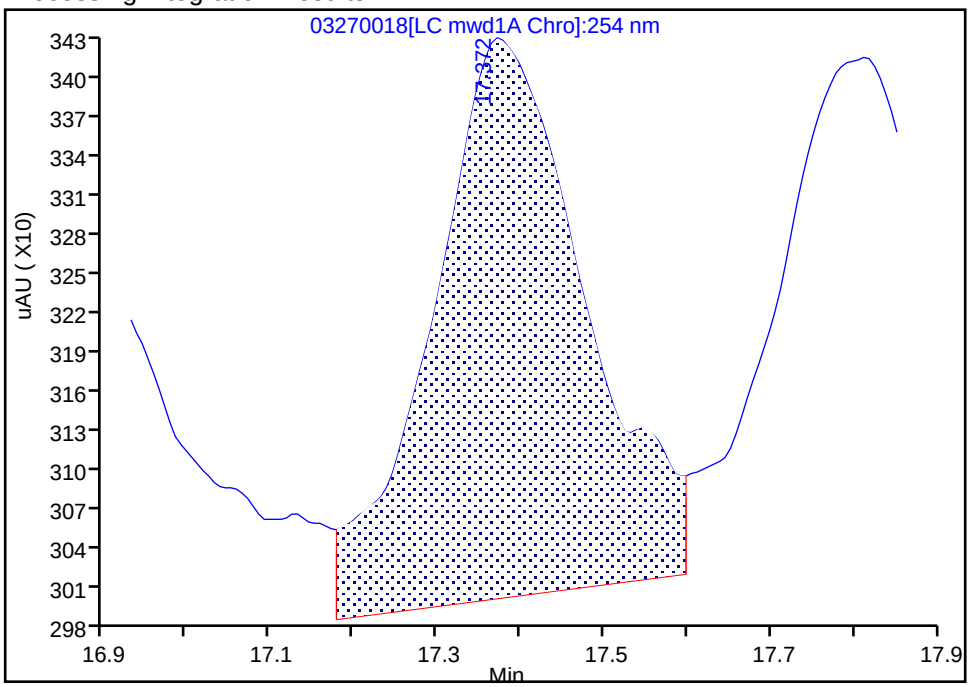
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270018.D				
Injection Date:	28-Mar-2024 00:38:31	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 1				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

19 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

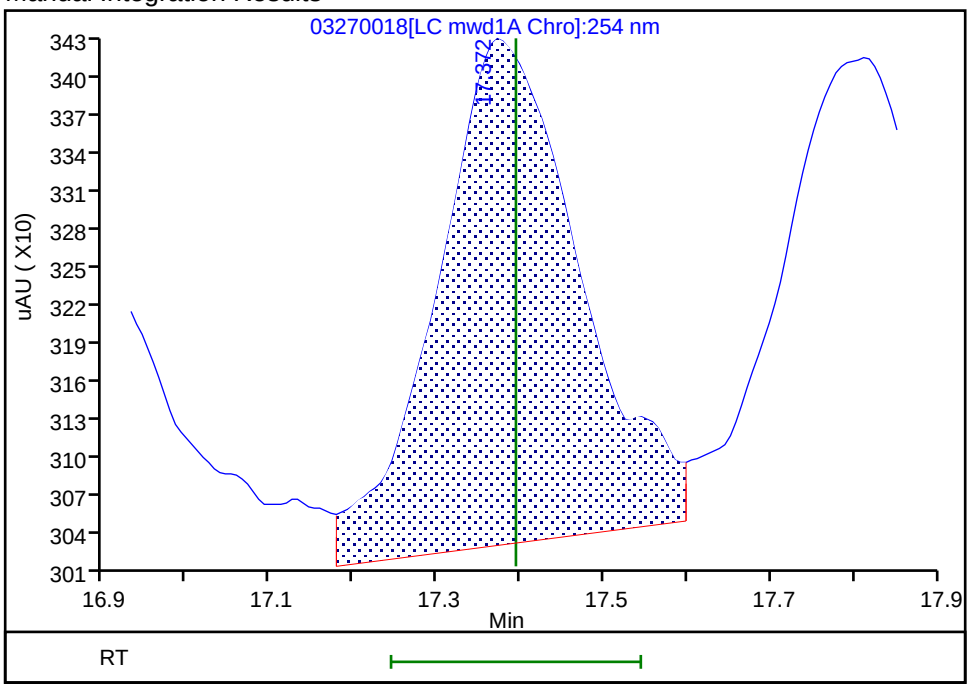
Processing Integration Results

RT: 17.37
Area: 5469
Amount: 0.012806
Amount Units: ug/ml



Manual Integration Results

RT: 17.37
Area: 4751
Amount: 0.009500
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:38:57 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

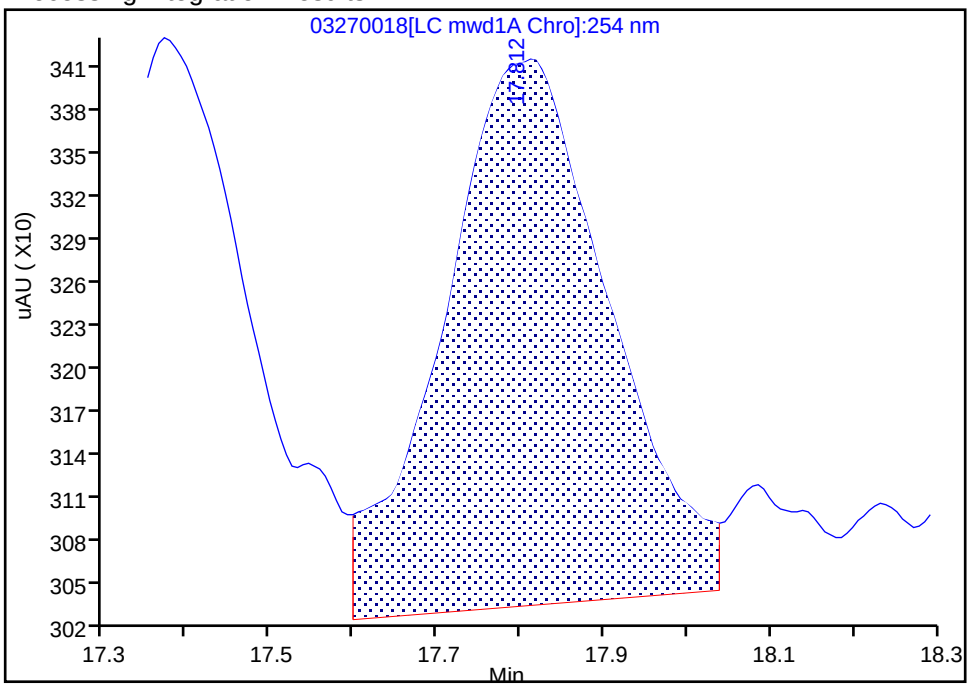
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270018.D				
Injection Date:	28-Mar-2024 00:38:31	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 1				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

20 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

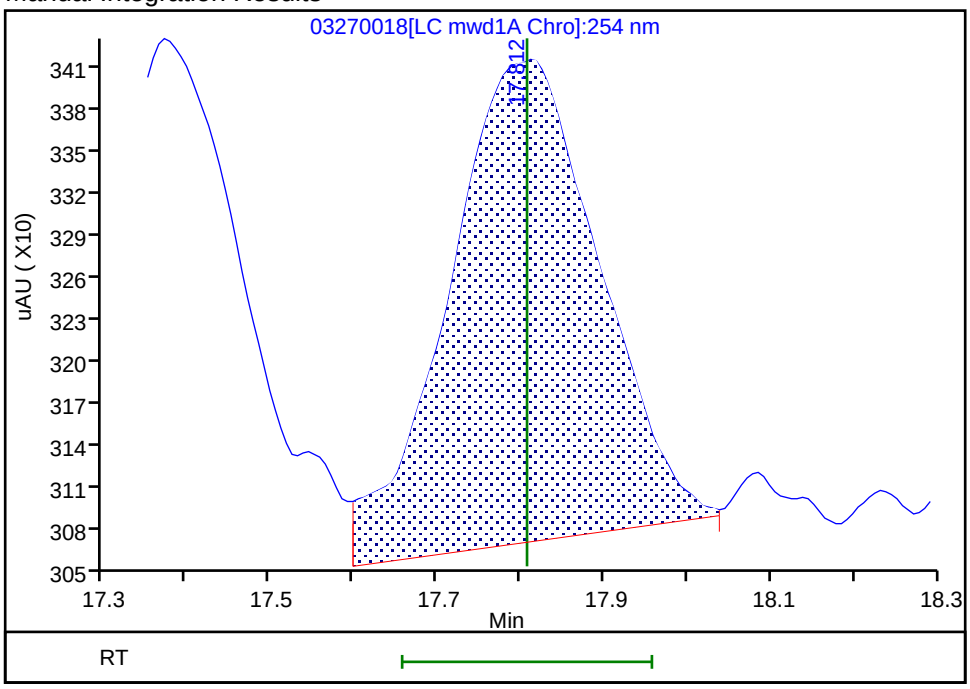
Processing Integration Results

RT: 17.81
Area: 5314
Amount: 0.012063
Amount Units: ug/ml



Manual Integration Results

RT: 17.81
Area: 4376
Amount: 0.010185
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:38:57 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

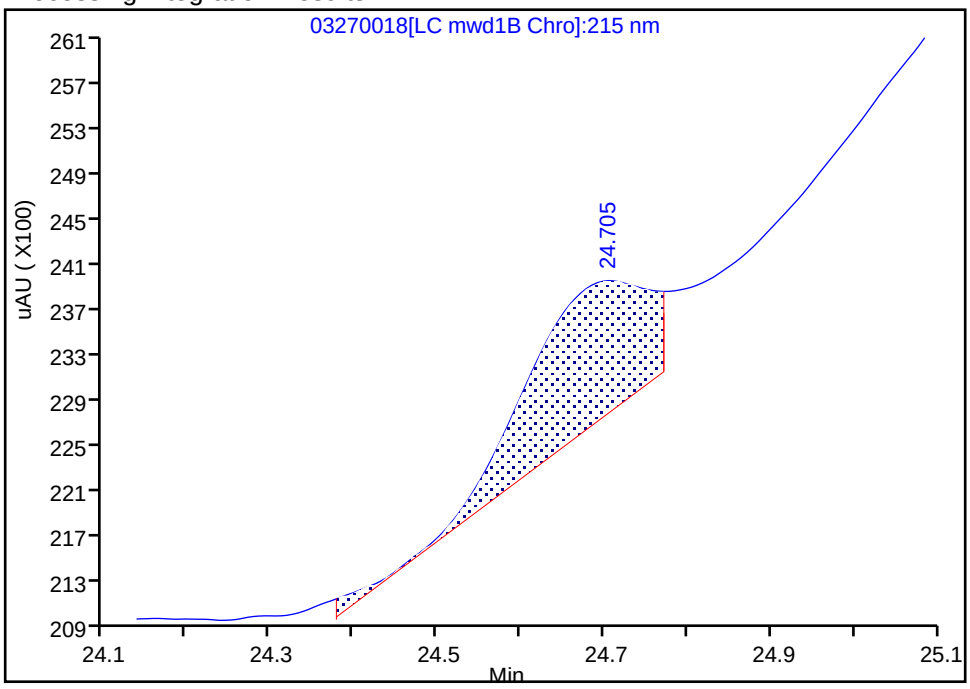
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270018.D
Injection Date: 28-Mar-2024 00:38:31 Instrument ID: CHHPLC_X5
Lims ID: IC INT 1
Client ID:
Operator ID: JZ/JG ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X5_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC mwd1B, 215 nm

25 PETN, CAS: 78-11-5

Signal: 1

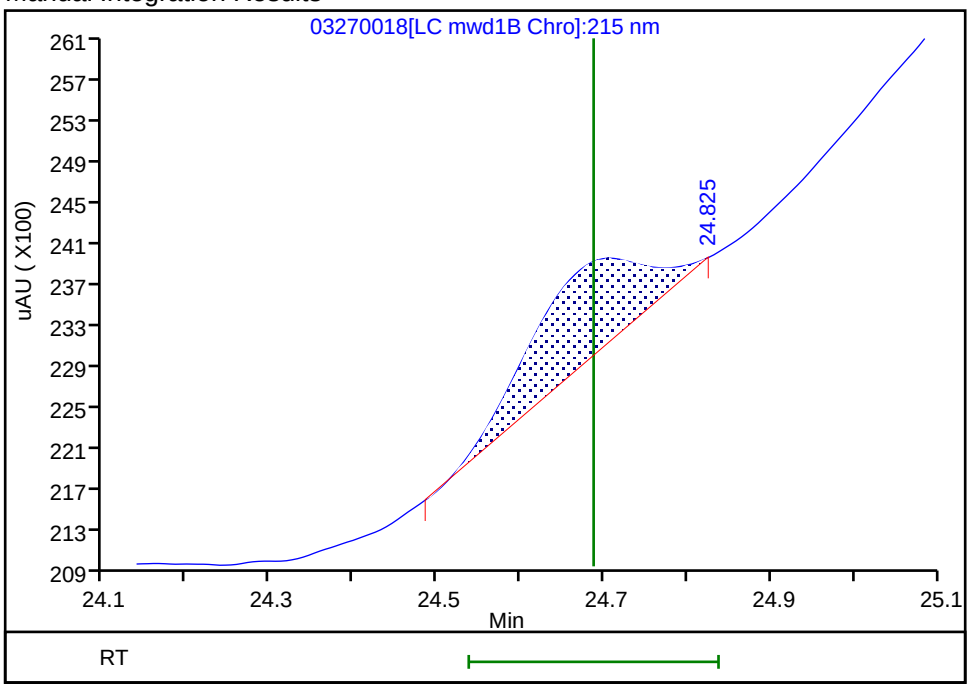
Processing Integration Results

RT: 24.71
Area: 12976
Amount: 0.091775
Amount Units: ug/ml



Manual Integration Results

RT: 24.83
Area: 8982
Amount: 0.102352
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:39:20 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Calibration / HMX

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

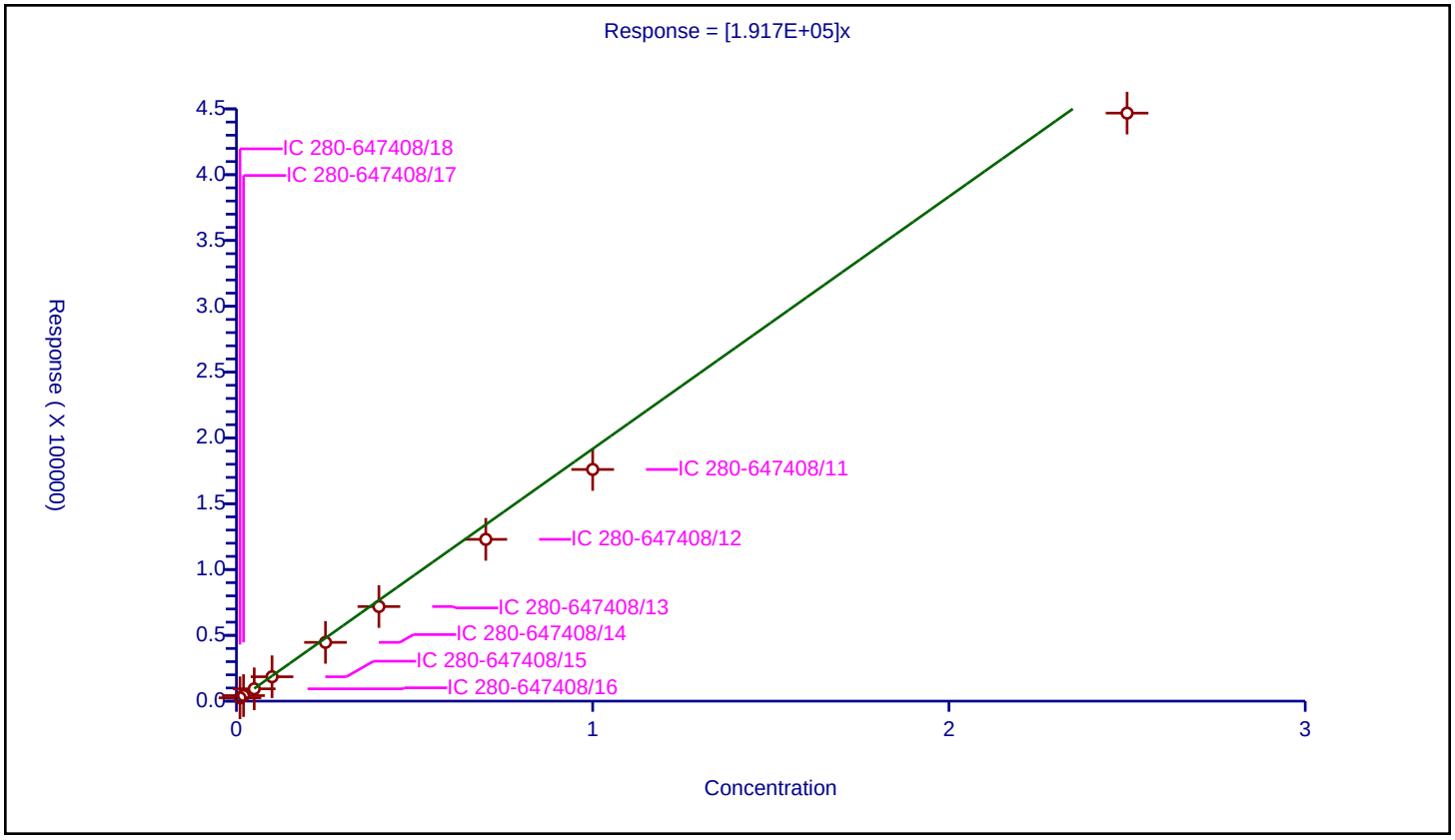
Curve Coefficients

Intercept:	0
Slope:	1.917E+05

Error Coefficients

Relative Standard Deviation:	13.4

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-647408/18	0.01	2536.0			253600.0	Y
2	IC 280-647408/17	0.02	4212.0			210600.0	Y
3	IC 280-647408/16	0.05	9356.0			187120.0	Y
4	IC 280-647408/15	0.1	18521.0			185210.0	Y
5	IC 280-647408/14	0.25	44644.0			178576.0	Y
6	IC 280-647408/13	0.4	71870.0			179675.0	Y
7	IC 280-647408/12	0.7	122924.0			175605.714286	Y
8	IC 280-647408/11	1.0	176039.0			176039.0	Y
9	IC 280-647408/10	2.5	446811.0			178724.4	Y



Calibration / 2,4,6-Trinitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

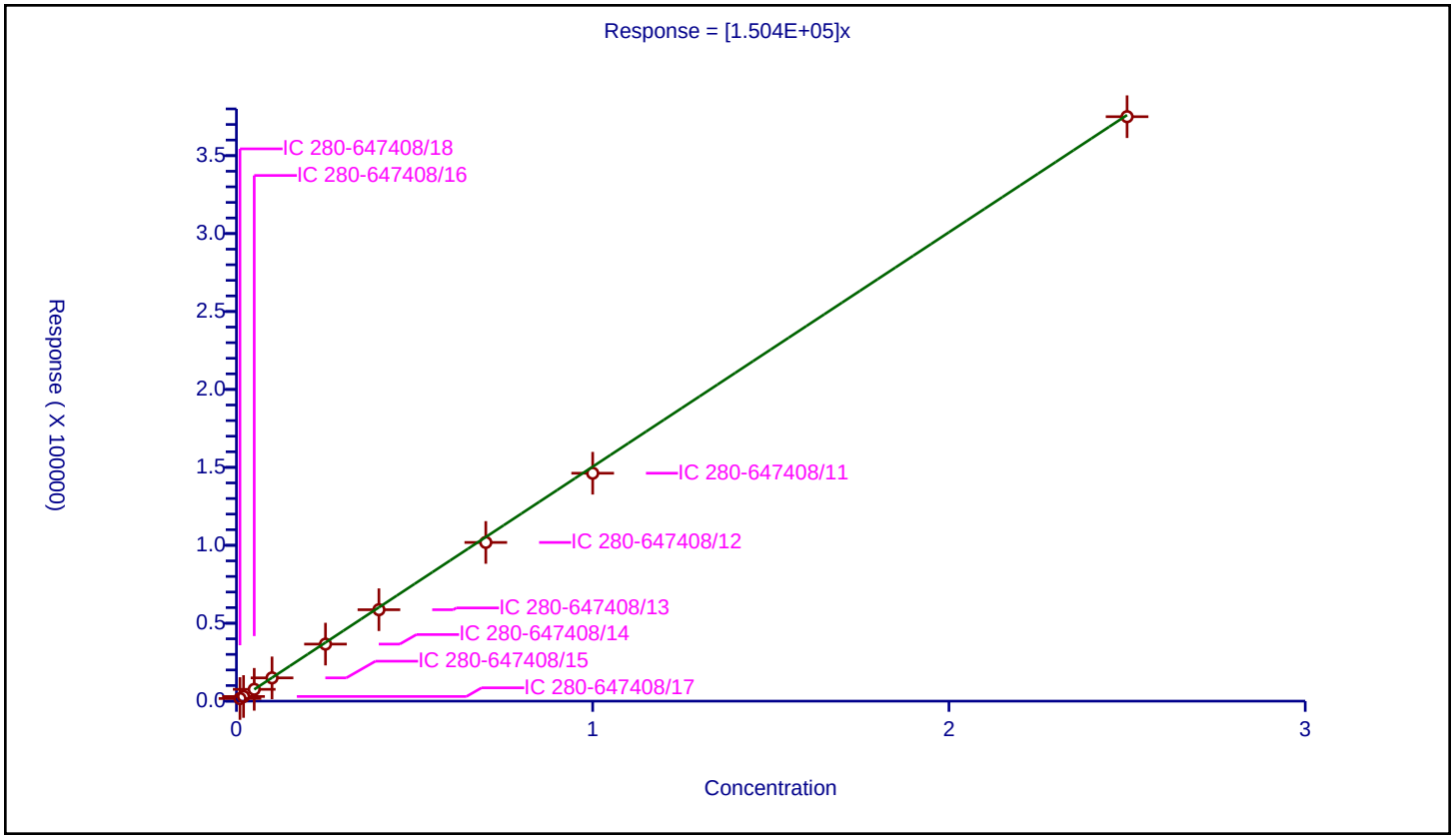
Curve Coefficients

Intercept:	0
Slope:	1.504E+05

Error Coefficients

Relative Standard Deviation:	4.8

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-647408/18	0.01	1687.0			168700.0	Y
2	IC 280-647408/17	0.02	2989.0			149450.0	Y
3	IC 280-647408/16	0.05	7577.0			151540.0	Y
4	IC 280-647408/15	0.1	14935.0			149350.0	Y
5	IC 280-647408/14	0.25	36592.0			146368.0	Y
6	IC 280-647408/13	0.4	58665.0			146662.5	Y
7	IC 280-647408/12	0.7	101830.0			145471.428571	Y
8	IC 280-647408/11	1.0	146238.0			146238.0	Y
9	IC 280-647408/10	2.5	375001.0			150000.4	Y



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Calibration / RDX

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

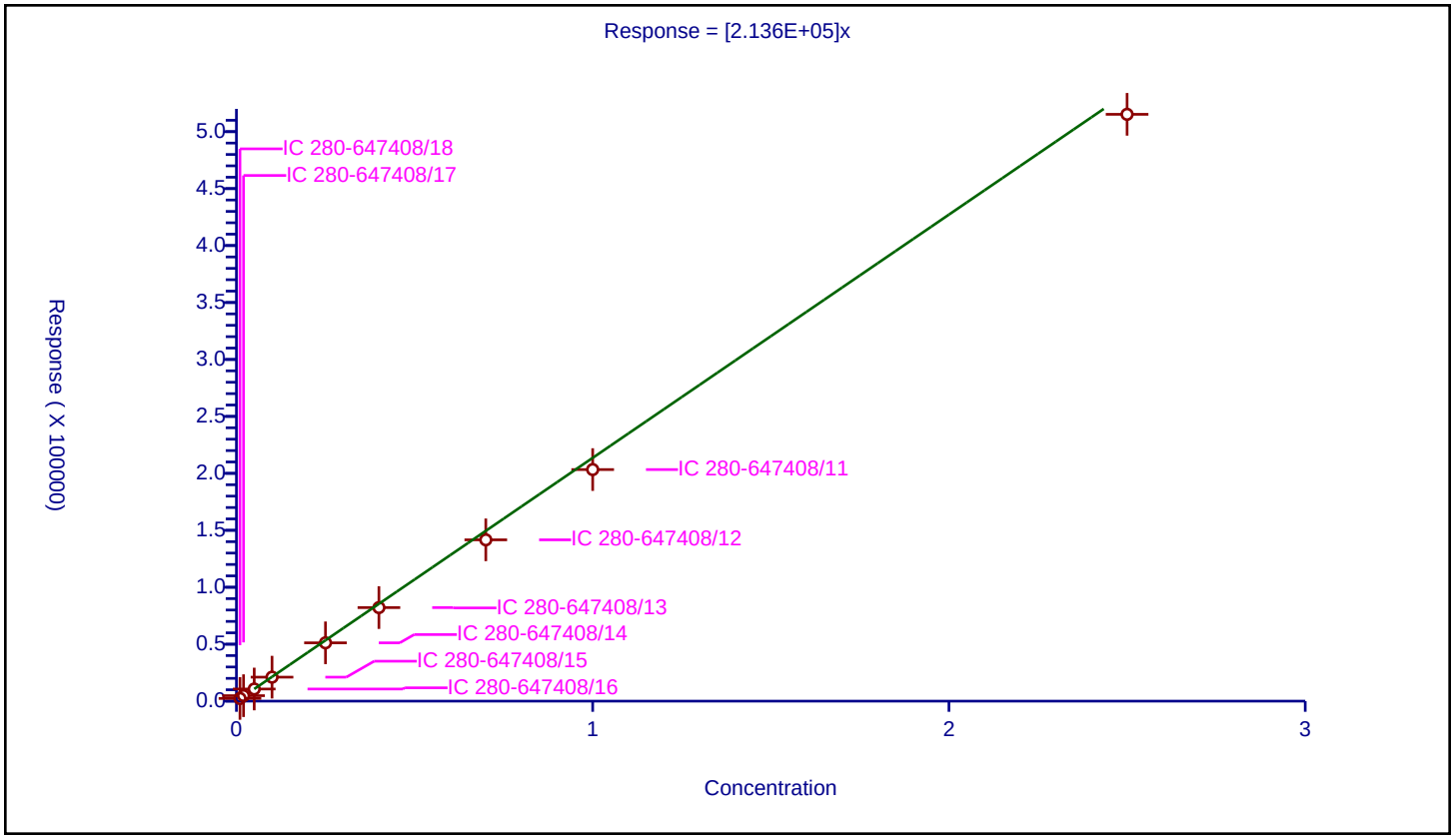
Curve Coefficients

Intercept:	0
Slope:	2.136E+05

Error Coefficients

Relative Standard Deviation:	6.8

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-647408/18	0.01	2368.0			236800.0	Y
2	IC 280-647408/17	0.02	4799.0			239950.0	Y
3	IC 280-647408/16	0.05	10653.0			213060.0	Y
4	IC 280-647408/15	0.1	21066.0			210660.0	Y
5	IC 280-647408/14	0.25	51199.0			204796.0	Y
6	IC 280-647408/13	0.4	82139.0			205347.5	Y
7	IC 280-647408/12	0.7	141632.0			202331.428571	Y
8	IC 280-647408/11	1.0	203312.0			203312.0	Y
9	IC 280-647408/10	2.5	515221.0			206088.4	Y



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Calibration / Nitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

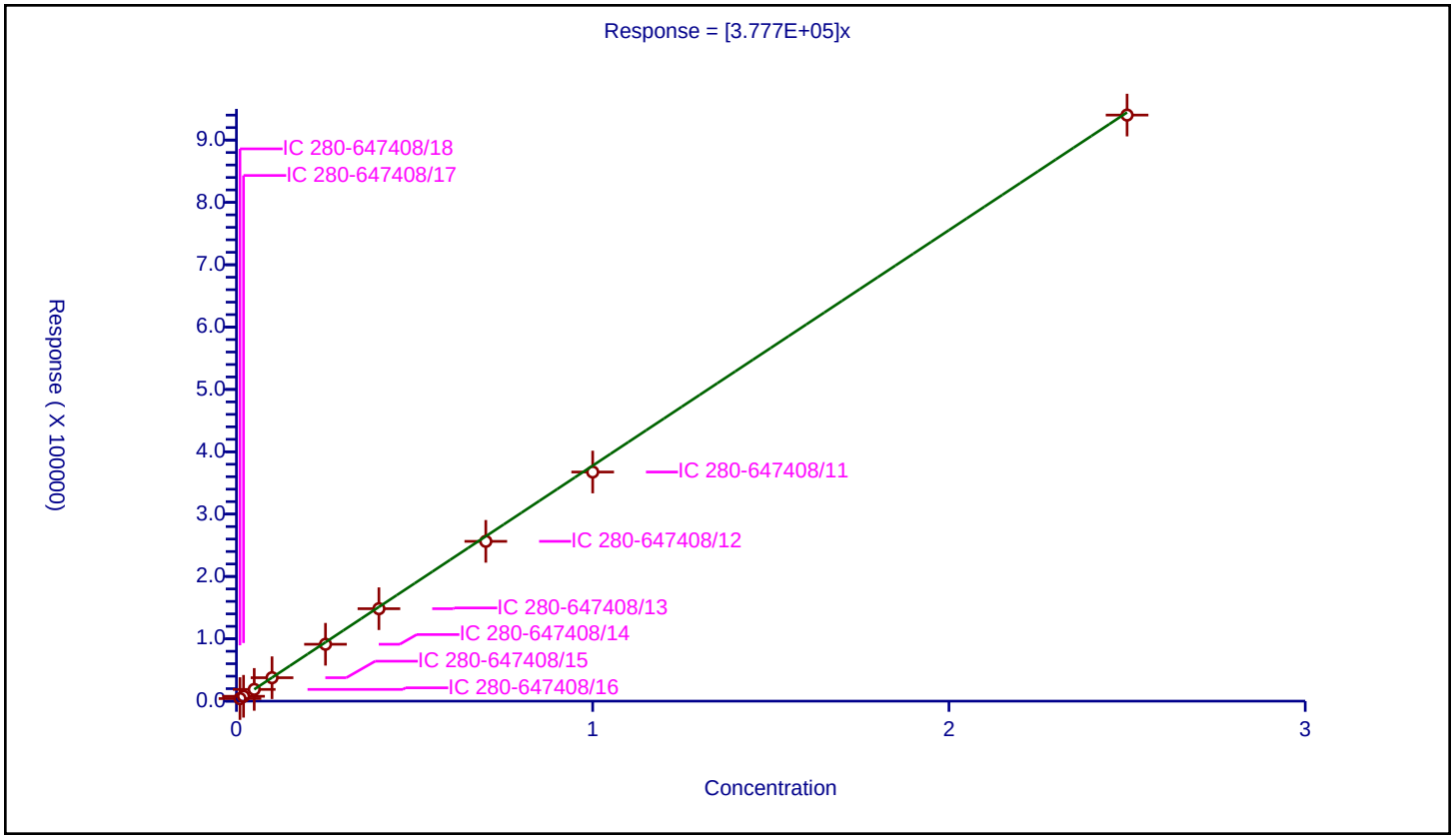
Curve Coefficients

Intercept:	0
Slope:	3.777E+05

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-647408/18	0.01	4113.0			411300.0	Y
2	IC 280-647408/17	0.02	7815.0			390750.0	Y
3	IC 280-647408/16	0.05	18828.0			376560.0	Y
4	IC 280-647408/15	0.1	37579.0			375790.0	Y
5	IC 280-647408/14	0.25	91228.0			364912.0	Y
6	IC 280-647408/13	0.4	148265.0			370662.5	Y
7	IC 280-647408/12	0.7	256305.0			366150.0	Y
8	IC 280-647408/11	1.0	367527.0			367527.0	Y
9	IC 280-647408/10	2.5	940071.0			376028.4	Y



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Calibration / 1,2-Dinitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

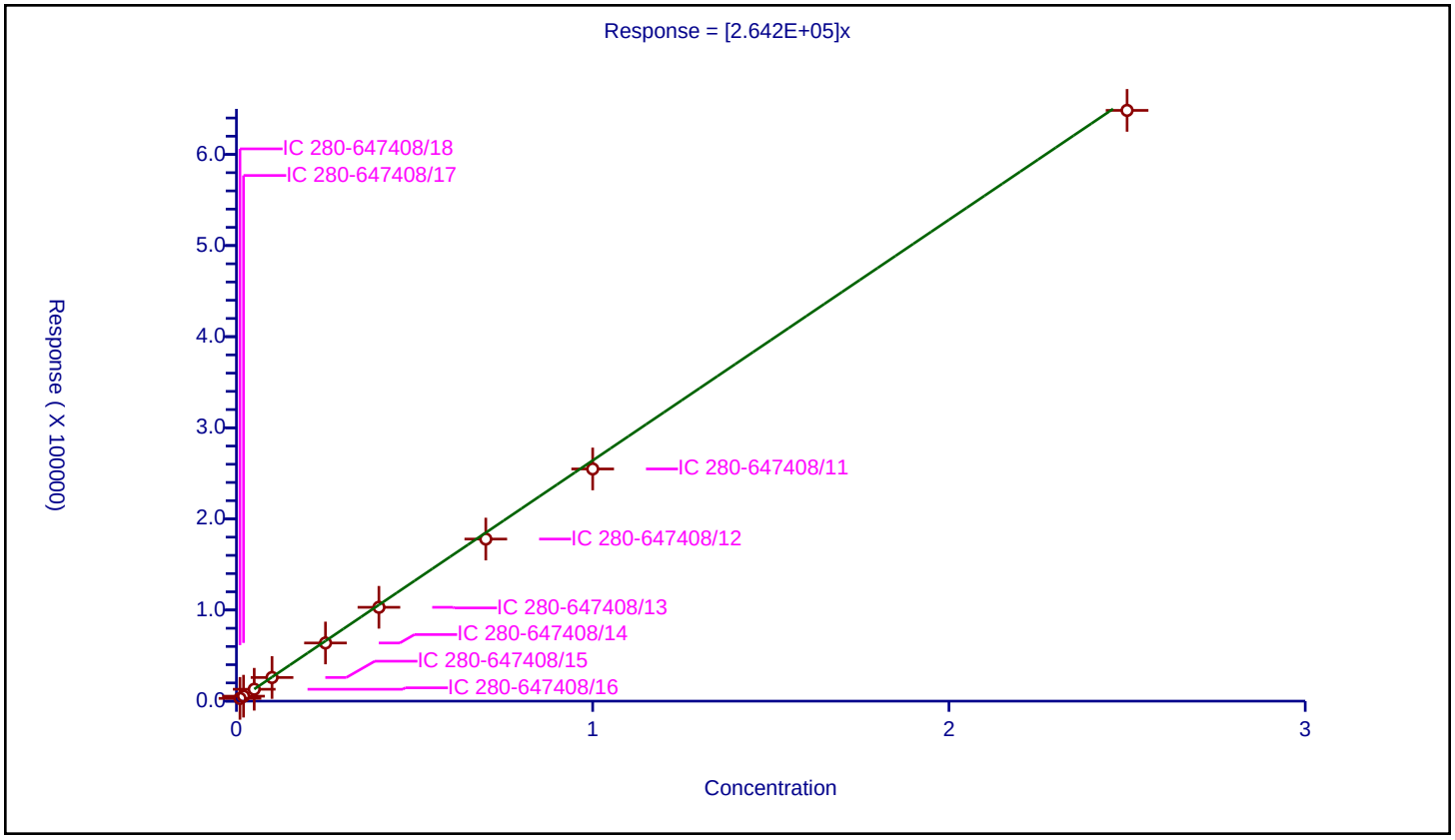
Curve Coefficients

Intercept:	0
Slope:	2.642E+05

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-647408/18	0.01	3032.0			303200.0	Y
2	IC 280-647408/17	0.02	5446.0			272300.0	Y
3	IC 280-647408/16	0.05	13065.0			261300.0	Y
4	IC 280-647408/15	0.1	25950.0			259500.0	Y
5	IC 280-647408/14	0.25	63832.0			255328.0	Y
6	IC 280-647408/13	0.4	102985.0			257462.5	Y
7	IC 280-647408/12	0.7	177880.0			254114.285714	Y
8	IC 280-647408/11	1.0	254825.0			254825.0	Y
9	IC 280-647408/10	2.5	648358.0			259343.2	Y



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Calibration / 3,5-Dinitroaniline

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

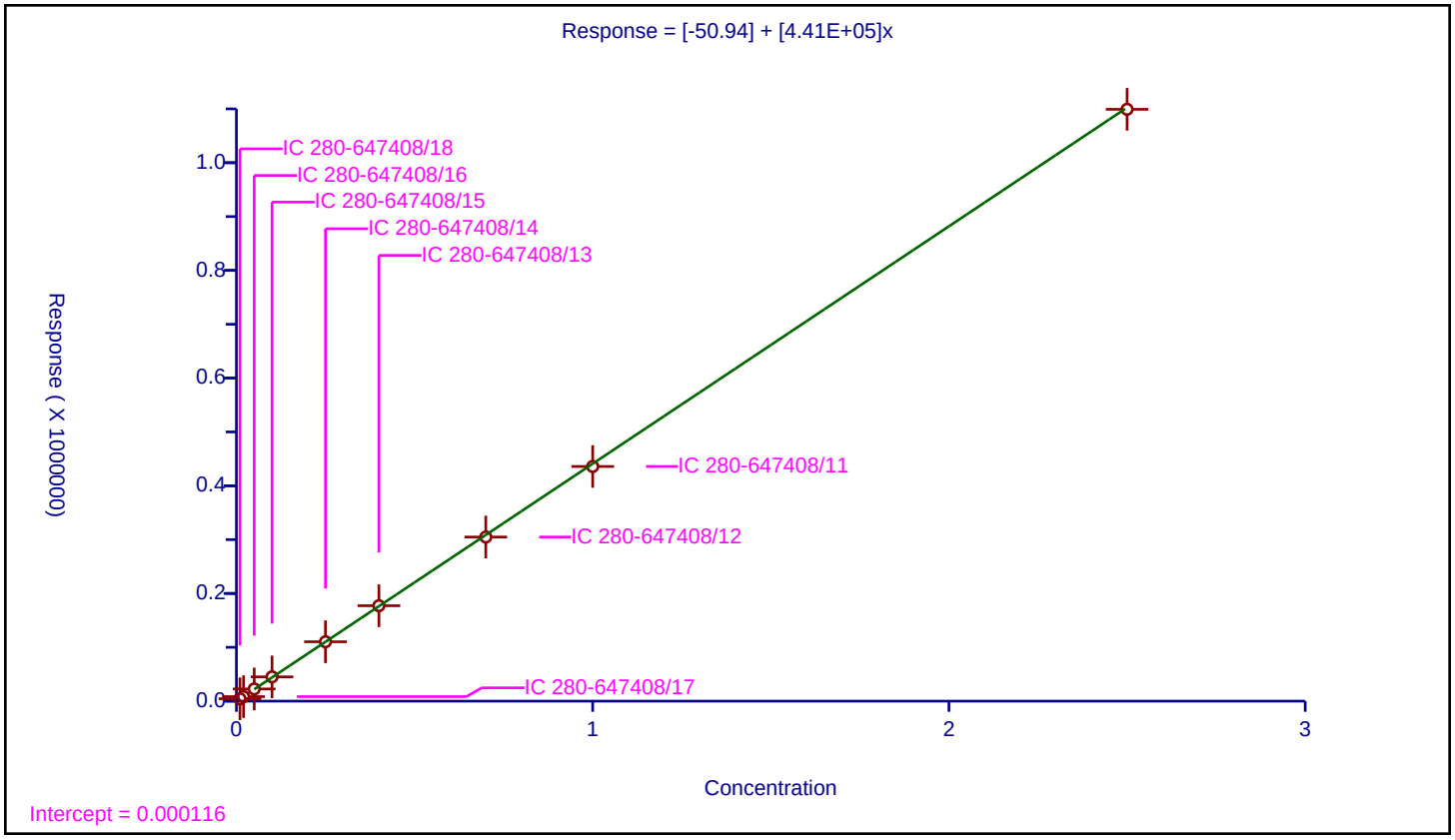
Curve Coefficients

Intercept:	-50.94
Slope:	4.41E+05

Error Coefficients

Relative Standard Deviation:	2.4

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-647408/18	0.01	4425.0			442500.0	Y
2	IC 280-647408/17	0.02	8366.0			418300.0	Y
3	IC 280-647408/16	0.05	22622.0			452440.0	Y
4	IC 280-647408/15	0.1	45083.0			450830.0	Y
5	IC 280-647408/14	0.25	110304.0			441216.0	Y
6	IC 280-647408/13	0.4	177203.0			443007.5	Y
7	IC 280-647408/12	0.7	304802.0			435431.428571	Y
8	IC 280-647408/11	1.0	435844.0			435844.0	Y
9	IC 280-647408/10	2.5	1099211.0			439684.4	Y



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Calibration / 1,3-Dinitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

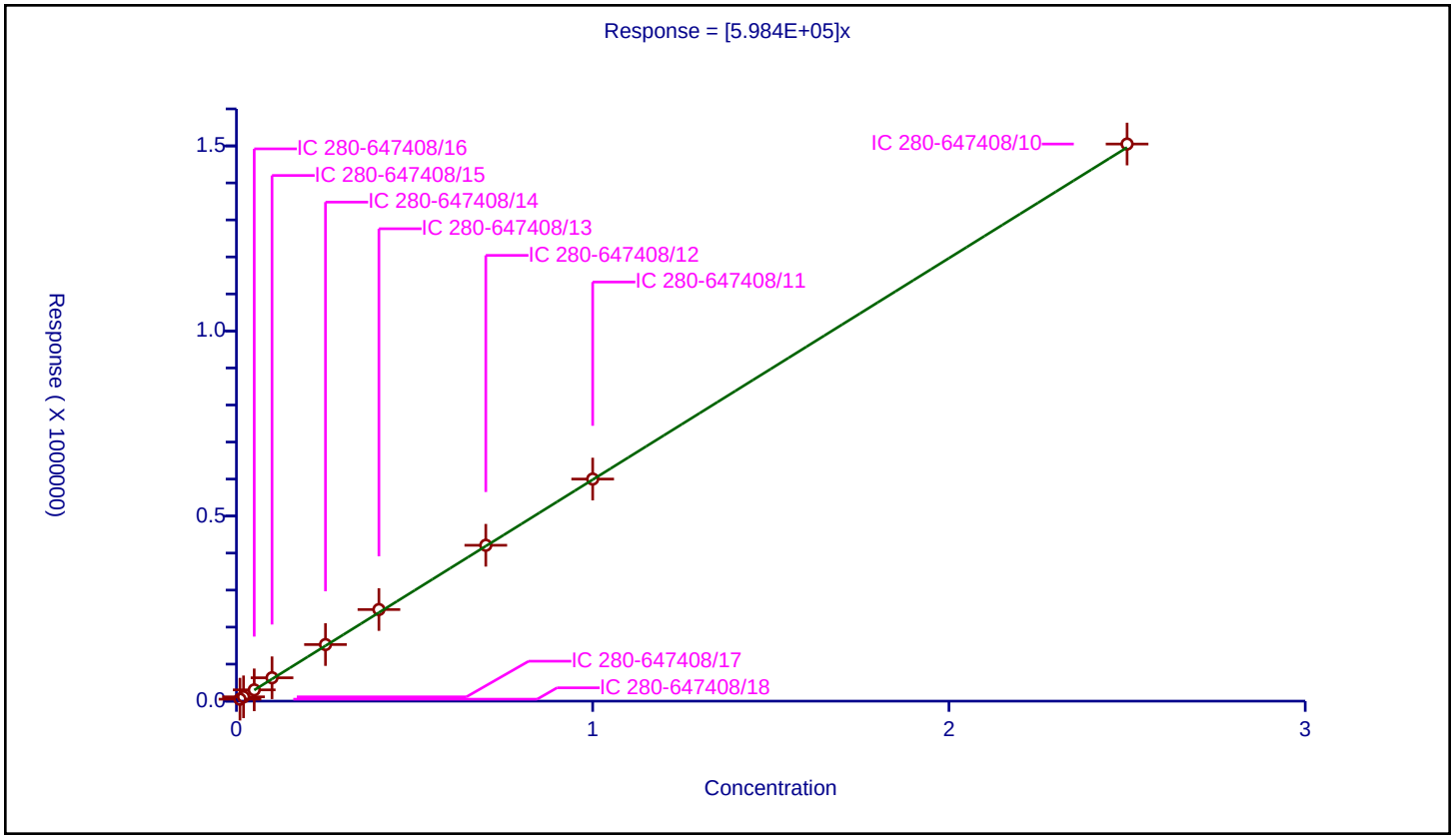
Curve Coefficients

Intercept:	0
Slope:	5.984E+05

Error Coefficients

Relative Standard Deviation:	4.8

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-647408/18	0.01	5312.0			531200.0	Y
2	IC 280-647408/17	0.02	11588.0			579400.0	Y
3	IC 280-647408/16	0.05	30462.0			609240.0	Y
4	IC 280-647408/15	0.1	63169.0			631690.0	Y
5	IC 280-647408/14	0.25	152858.0			611432.0	Y
6	IC 280-647408/13	0.4	247490.0			618725.0	Y
7	IC 280-647408/12	0.7	421120.0			601600.0	Y
8	IC 280-647408/11	1.0	599978.0			599978.0	Y
9	IC 280-647408/10	2.5	1505083.0			602033.2	Y



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Calibration / Nitroglycerin

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

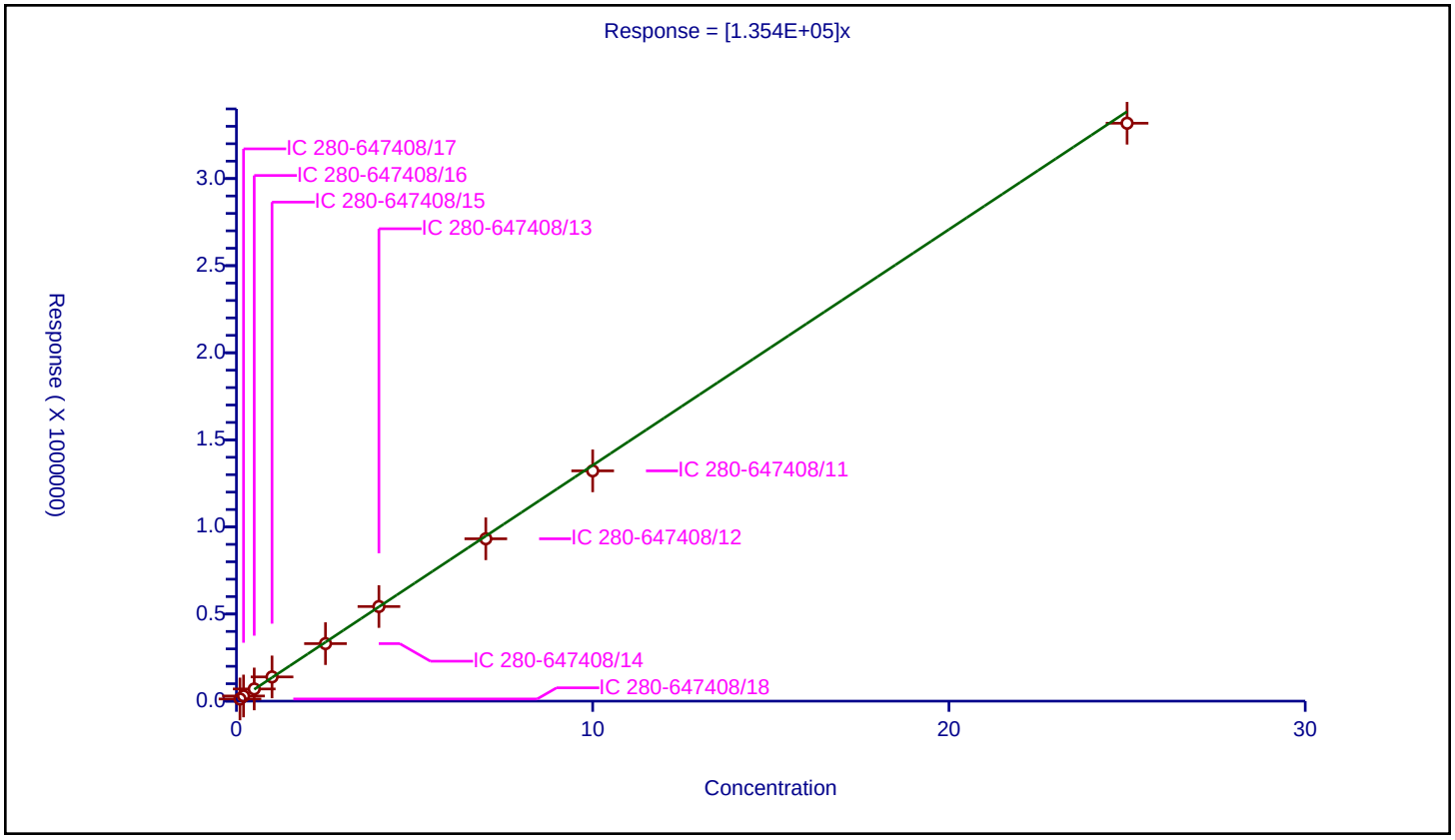
Curve Coefficients

Intercept:	0
Slope:	1.354E+05

Error Coefficients

Relative Standard Deviation:	4.7

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-647408/18	0.1	12537.0			125370.0	Y
2	IC 280-647408/17	0.2	29624.0			148120.0	Y
3	IC 280-647408/16	0.5	69985.0			139970.0	Y
4	IC 280-647408/15	1.0	139113.0			139113.0	Y
5	IC 280-647408/14	2.5	330187.0			132074.8	Y
6	IC 280-647408/13	4.0	543150.0			135787.5	Y
7	IC 280-647408/12	7.0	932056.0			133150.857143	Y
8	IC 280-647408/11	10.0	1322106.0			132210.6	Y
9	IC 280-647408/10	25.0	3317794.0			132711.76	Y



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Calibration / o-Nitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

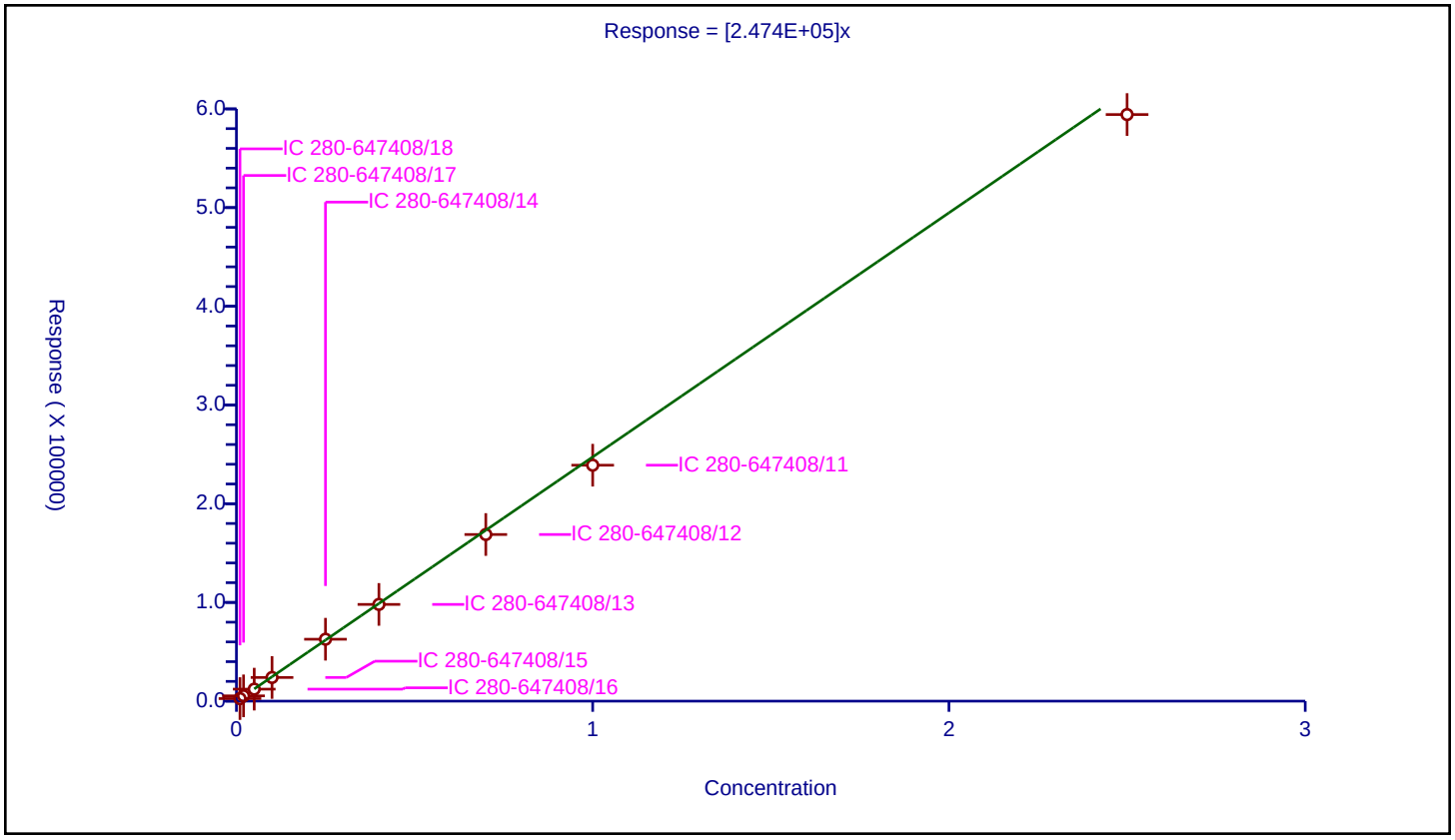
Curve Coefficients

Intercept:	0
Slope:	2.474E+05

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-647408/18	0.01	2612.0			261200.0	Y
2	IC 280-647408/17	0.02	5365.0			268250.0	Y
3	IC 280-647408/16	0.05	12161.0			243220.0	Y
4	IC 280-647408/15	0.1	23970.0			239700.0	Y
5	IC 280-647408/14	0.25	62730.0			250920.0	Y
6	IC 280-647408/13	0.4	98000.0			245000.0	Y
7	IC 280-647408/12	0.7	168804.0			241148.571429	Y
8	IC 280-647408/11	1.0	239038.0			239038.0	Y
9	IC 280-647408/10	2.5	594270.0			237708.0	Y



Calibration / p-Nitrotoluene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

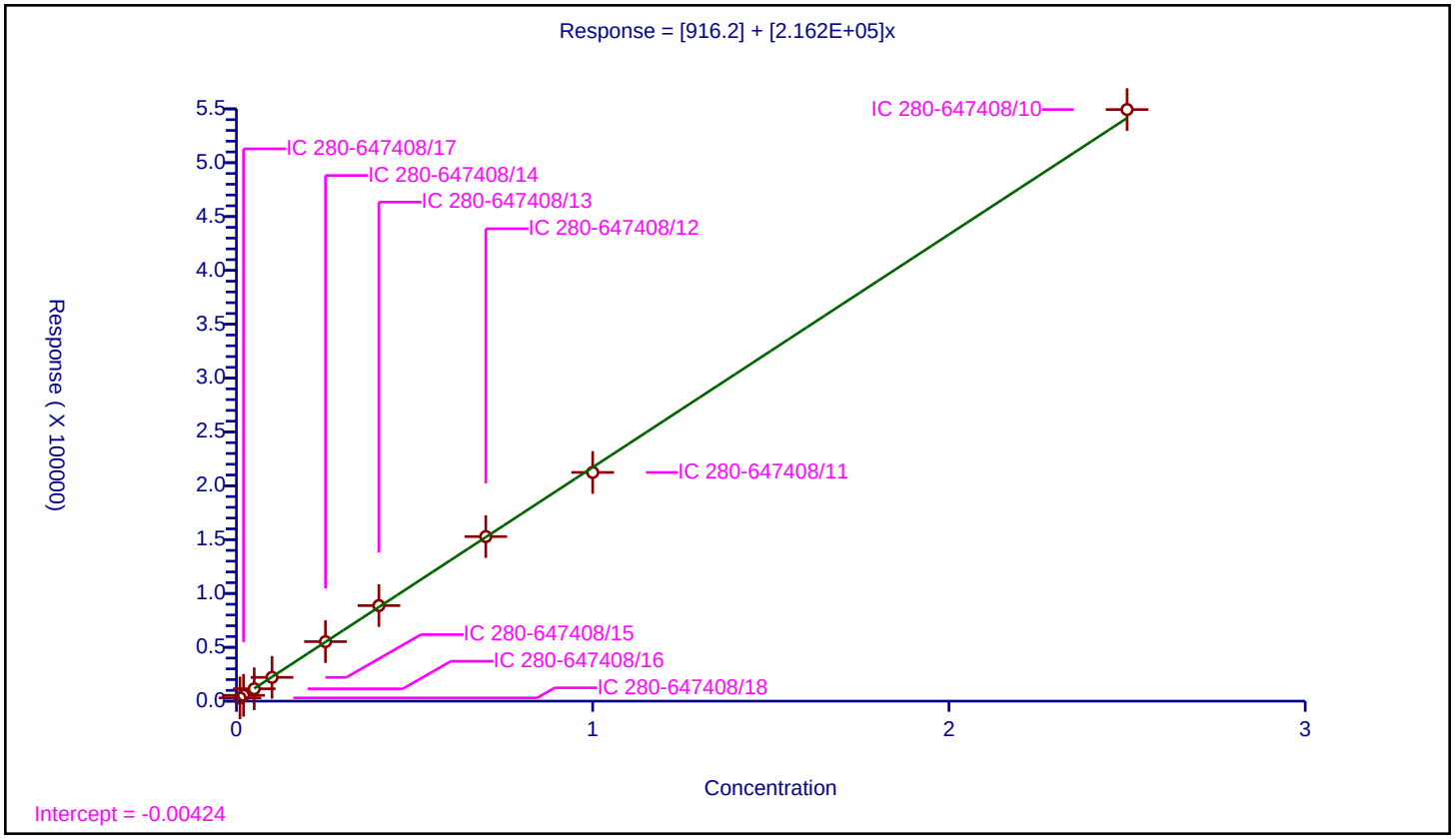
Curve Coefficients

Intercept:	916.2
Slope:	2.162E+05

Error Coefficients

Relative Standard Deviation:	2.3

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-647408/18	0.01	3049.0			304900.0	Y
2	IC 280-647408/17	0.02	5409.0			270450.0	Y
3	IC 280-647408/16	0.05	11499.0			229980.0	Y
4	IC 280-647408/15	0.1	22083.0			220830.0	Y
5	IC 280-647408/14	0.25	55261.0			221044.0	Y
6	IC 280-647408/13	0.4	88722.0			221805.0	Y
7	IC 280-647408/12	0.7	152824.0			218320.0	Y
8	IC 280-647408/11	1.0	212404.0			212404.0	Y
9	IC 280-647408/10	2.5	549379.0			219751.6	Y



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Calibration / 4-Amino-2,6-dinitrotoluene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

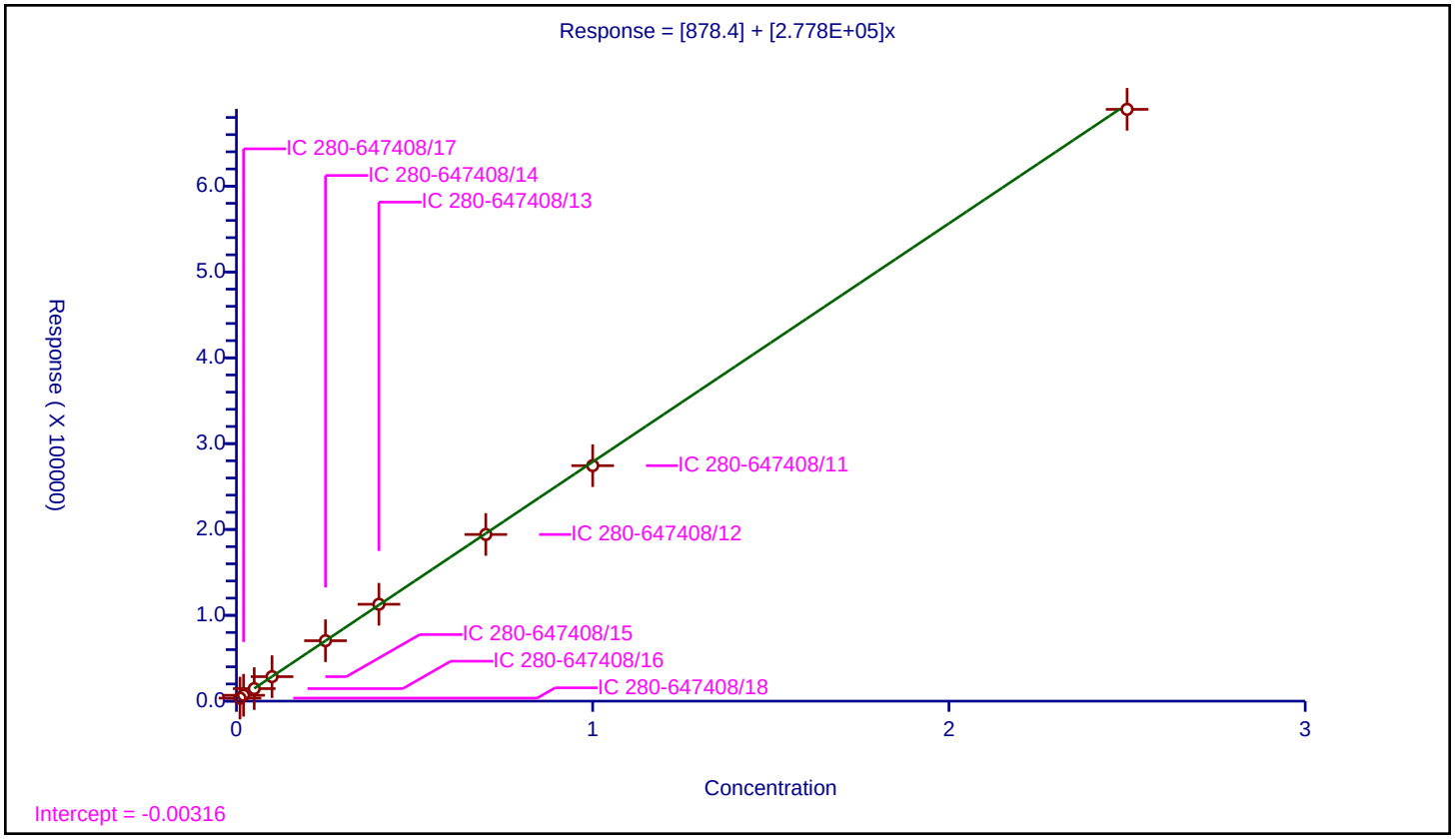
Curve Coefficients

Intercept:	878.4
Slope:	2.778E+05

Error Coefficients

Relative Standard Deviation:	3.2

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-647408/18	0.01	3564.0			356400.0	Y
2	IC 280-647408/17	0.02	6841.0			342050.0	Y
3	IC 280-647408/16	0.05	14588.0			291760.0	Y
4	IC 280-647408/15	0.1	28535.0			285350.0	Y
5	IC 280-647408/14	0.25	70385.0			281540.0	Y
6	IC 280-647408/13	0.4	112872.0			282180.0	Y
7	IC 280-647408/12	0.7	194181.0			277401.428571	Y
8	IC 280-647408/11	1.0	274352.0			274352.0	Y
9	IC 280-647408/10	2.5	689480.0			275792.0	Y



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Calibration / m-Nitrotoluene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

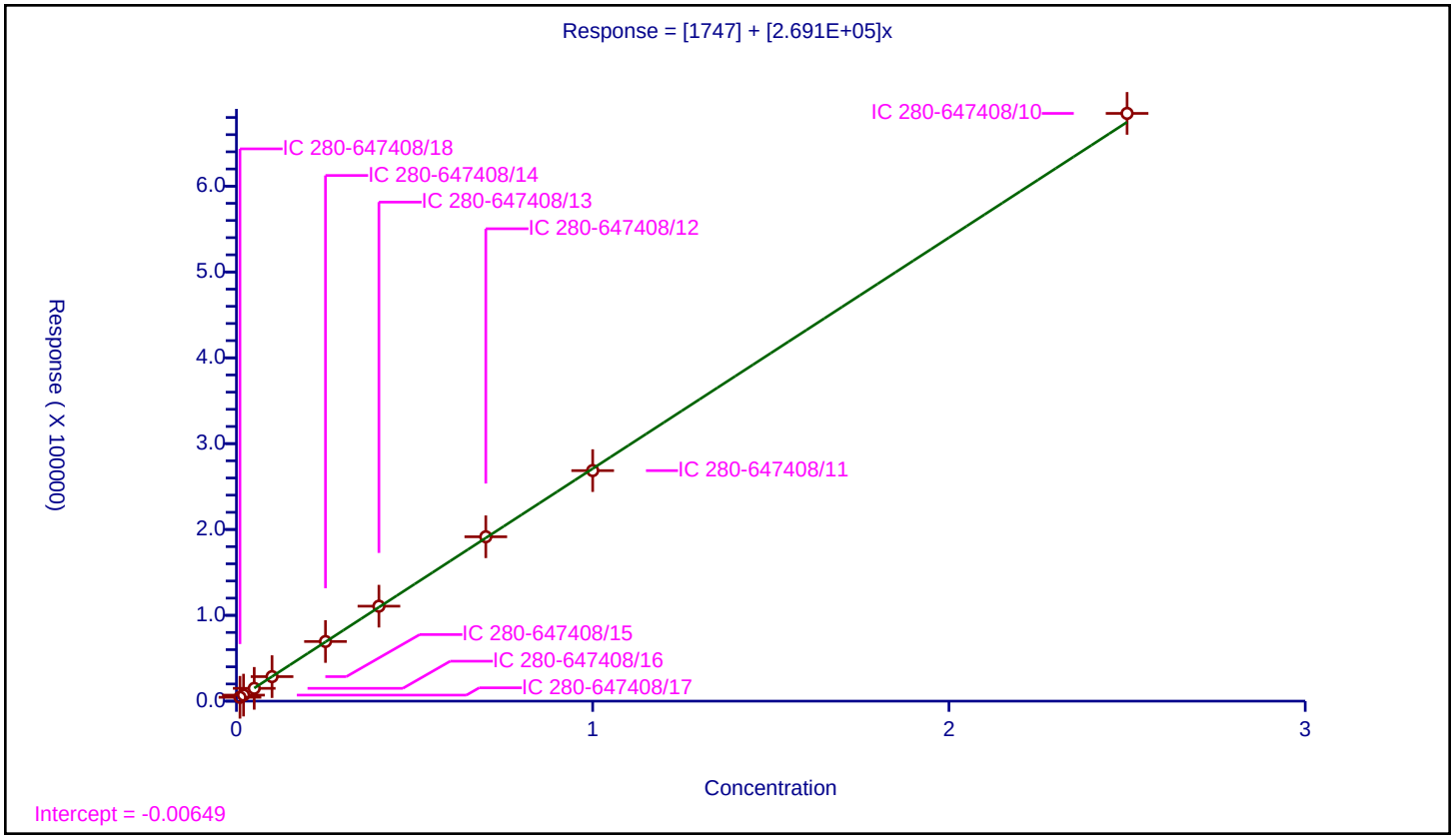
Curve Coefficients

Intercept:	1747
Slope:	2.691E+05

Error Coefficients

Relative Standard Deviation:	1.6

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-647408/18	0.01	4479.0			447900.0	Y
2	IC 280-647408/17	0.02	7013.0			350650.0	Y
3	IC 280-647408/16	0.05	14909.0			298180.0	Y
4	IC 280-647408/15	0.1	28570.0			285700.0	Y
5	IC 280-647408/14	0.25	69503.0			278012.0	Y
6	IC 280-647408/13	0.4	110632.0			276580.0	Y
7	IC 280-647408/12	0.7	191495.0			273564.285714	Y
8	IC 280-647408/11	1.0	268594.0			268594.0	Y
9	IC 280-647408/10	2.5	684753.0			273901.2	Y



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Calibration / 2-Amino-4,6-dinitrotoluene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

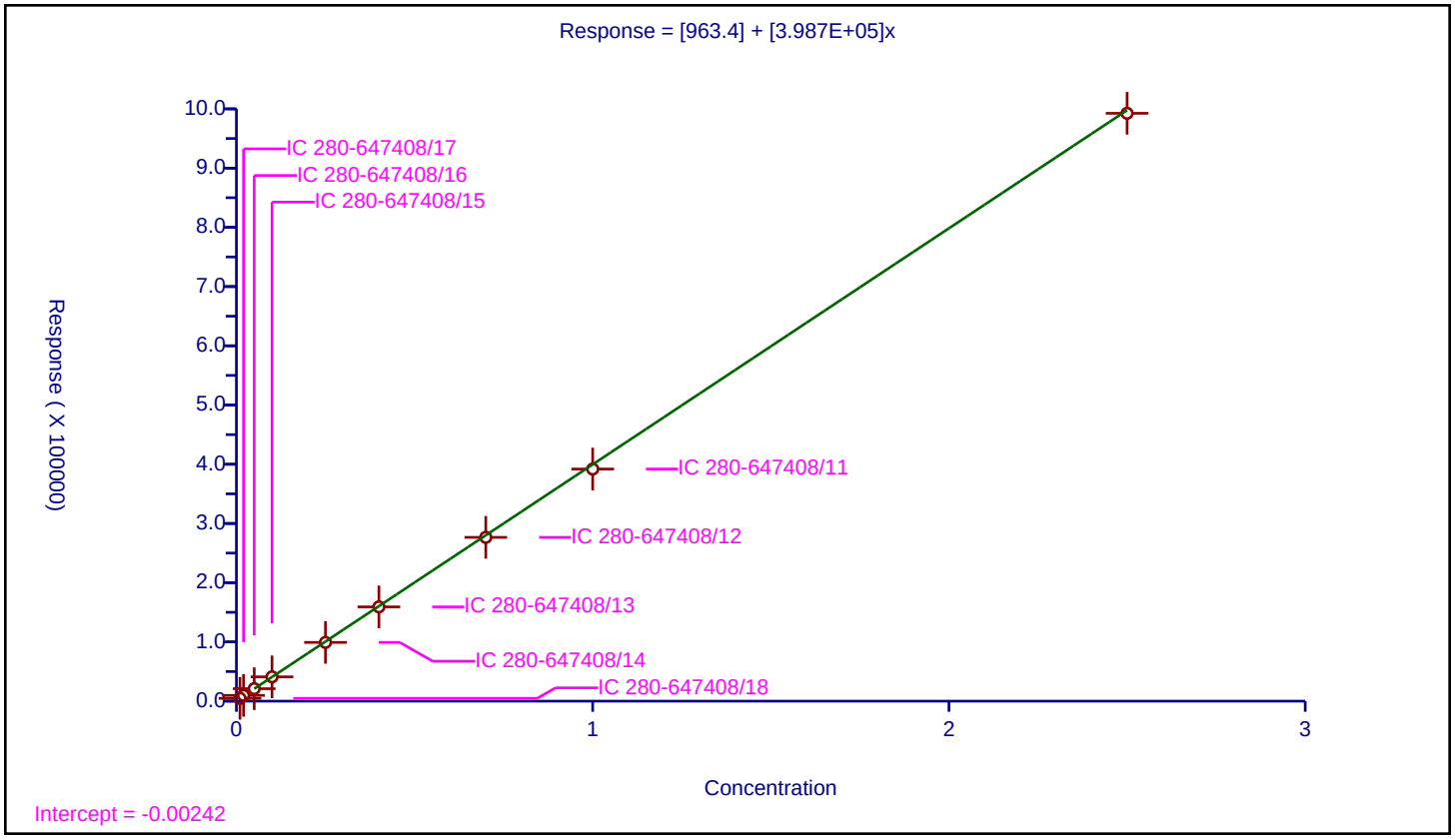
Curve Coefficients

Intercept:	963.4
Slope:	3.987E+05

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-647408/18	0.01	4751.0			475100.0	Y
2	IC 280-647408/17	0.02	9727.0			486350.0	Y
3	IC 280-647408/16	0.05	21010.0			420200.0	Y
4	IC 280-647408/15	0.1	41030.0			410300.0	Y
5	IC 280-647408/14	0.25	99171.0			396684.0	Y
6	IC 280-647408/13	0.4	159194.0			397985.0	Y
7	IC 280-647408/12	0.7	276553.0			395075.714286	Y
8	IC 280-647408/11	1.0	391883.0			391883.0	Y
9	IC 280-647408/10	2.5	992531.0			397012.4	Y



5/21/2024
3:57:23 PM

Calibration / 1,3,5-Trinitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

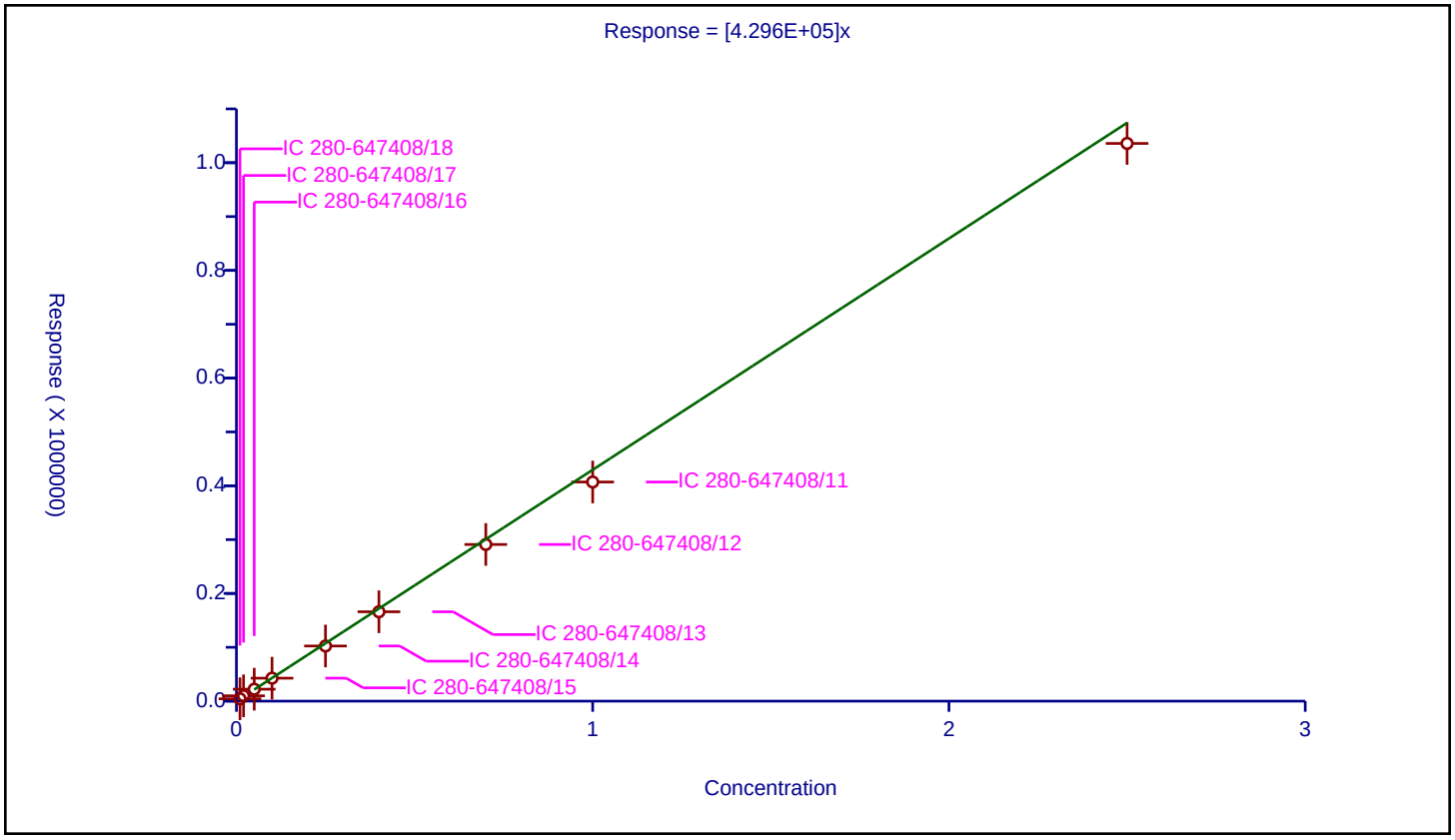
Curve Coefficients

Intercept:	0
Slope:	4.296E+05

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-647408/18	0.01	4376.0			437600.0	Y
2	IC 280-647408/17	0.02	9936.0			496800.0	Y
3	IC 280-647408/16	0.05	22192.0			443840.0	Y
4	IC 280-647408/15	0.1	42679.0			426790.0	Y
5	IC 280-647408/14	0.25	102407.0			409628.0	Y
6	IC 280-647408/13	0.4	165995.0			414987.5	Y
7	IC 280-647408/12	0.7	290999.0			415712.857143	Y
8	IC 280-647408/11	1.0	407003.0			407003.0	Y
9	IC 280-647408/10	2.5	1035852.0			414340.8	Y



5/21/2024
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Calibration / 2,6-Dinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

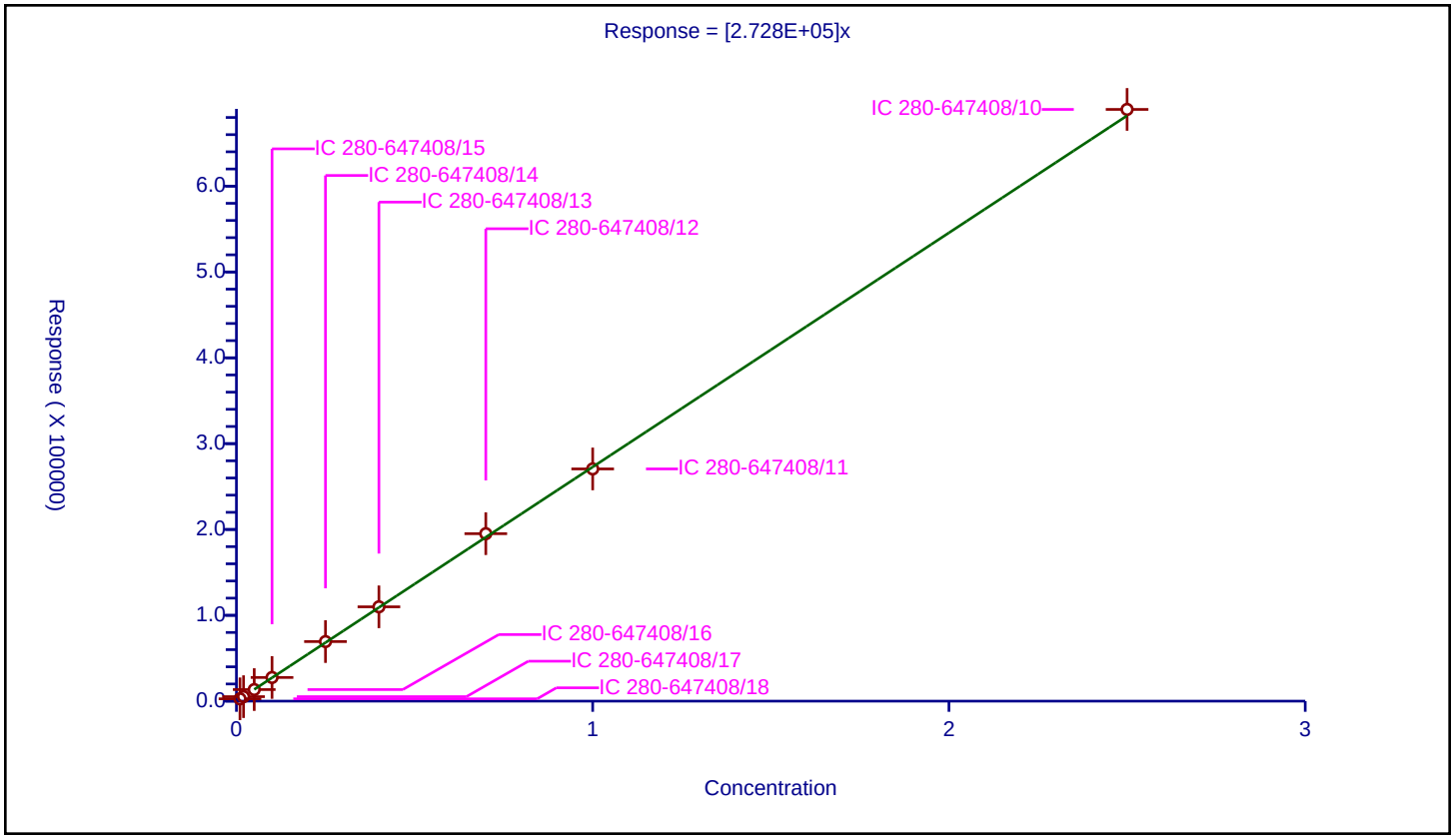
Curve Coefficients

Intercept:	0
Slope:	2.728E+05

Error Coefficients

Relative Standard Deviation:	2.0

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-647408/18	0.01	2716.0			271600.0	Y
2	IC 280-647408/17	0.02	5223.0			261150.0	Y
3	IC 280-647408/16	0.05	13493.0			269860.0	Y
4	IC 280-647408/15	0.1	27556.0			275560.0	Y
5	IC 280-647408/14	0.25	69384.0			277536.0	Y
6	IC 280-647408/13	0.4	109904.0			274760.0	Y
7	IC 280-647408/12	0.7	195115.0			278735.714286	Y
8	IC 280-647408/11	1.0	270529.0			270529.0	Y
9	IC 280-647408/10	2.5	689381.0			275752.4	Y



5/21/2024
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Calibration / 2,4-Dinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

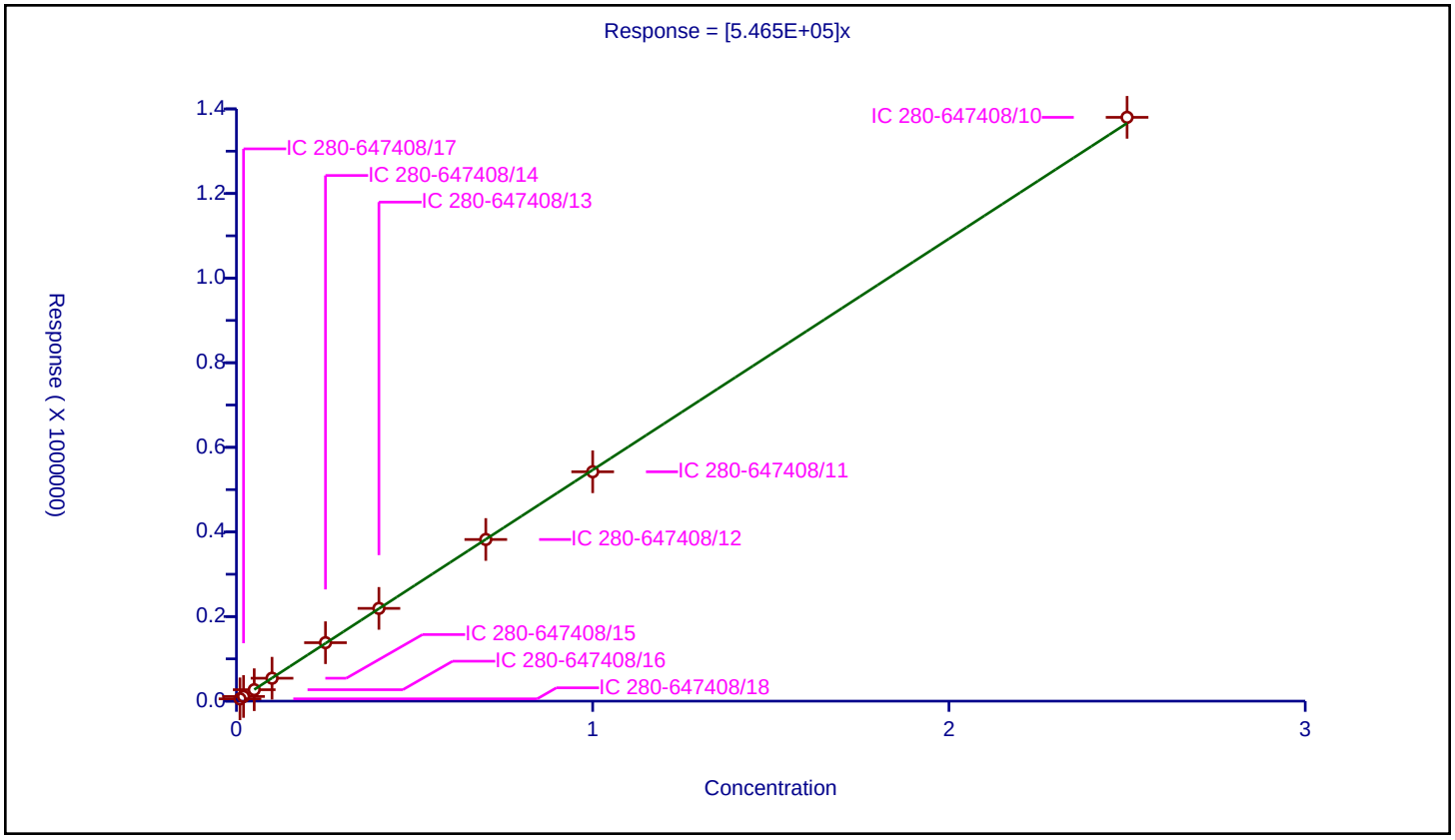
Curve Coefficients

Intercept:	0
Slope:	5.465E+05

Error Coefficients

Relative Standard Deviation:	0.8

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-647408/18	0.01	5455.0			545500.0	Y
2	IC 280-647408/17	0.02	10999.0			549950.0	Y
3	IC 280-647408/16	0.05	27016.0			540320.0	Y
4	IC 280-647408/15	0.1	54196.0			541960.0	Y
5	IC 280-647408/14	0.25	138171.0			552684.0	Y
6	IC 280-647408/13	0.4	219281.0			548202.5	Y
7	IC 280-647408/12	0.7	382126.0			545894.285714	Y
8	IC 280-647408/11	1.0	542165.0			542165.0	Y
9	IC 280-647408/10	2.5	1380071.0			552028.4	Y



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Calibration / Tetryl

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

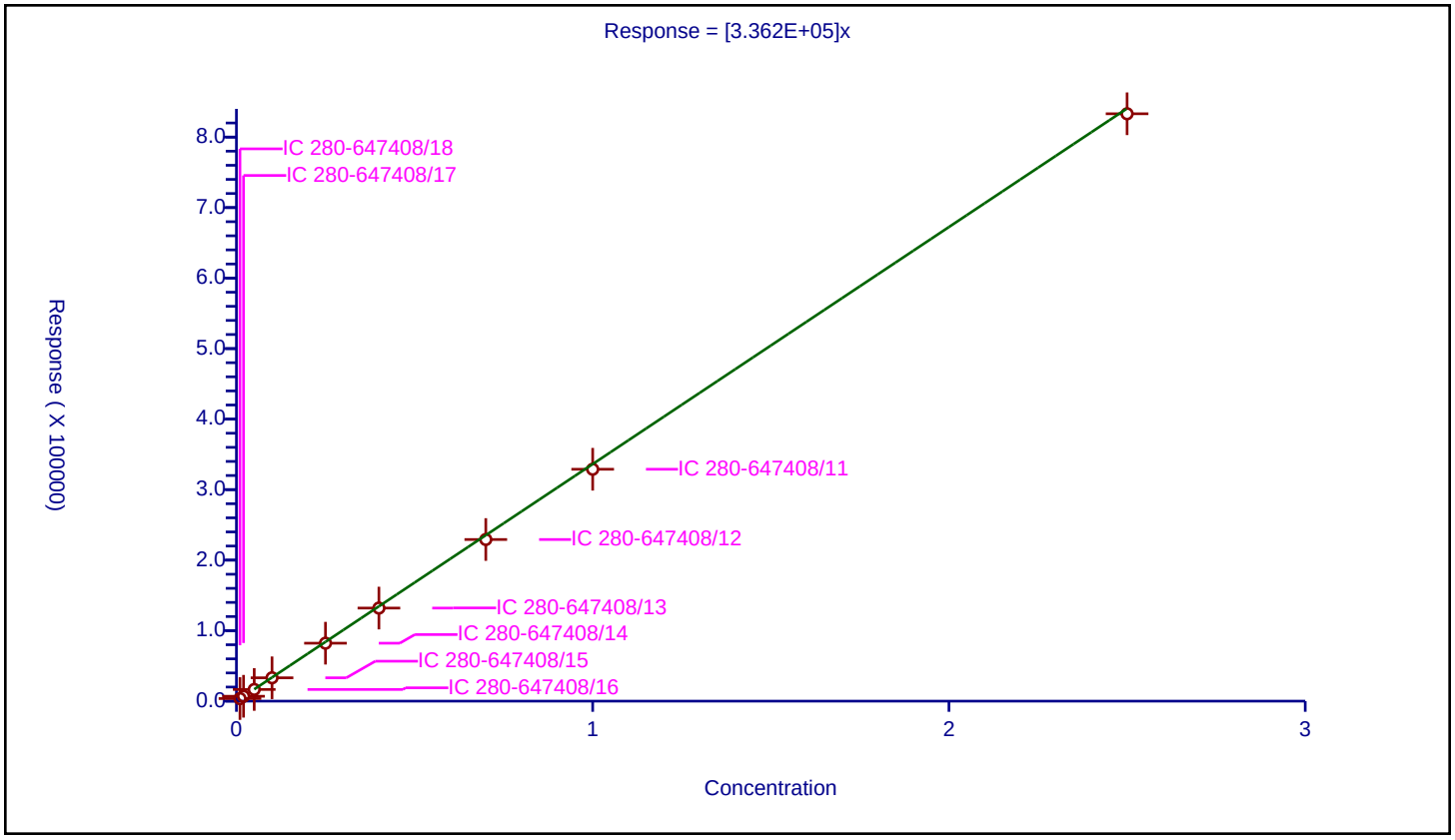
Curve Coefficients

Intercept:	0
Slope:	3.362E+05

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-647408/18	0.01	3690.0			369000.0	Y
2	IC 280-647408/17	0.02	6925.0			346250.0	Y
3	IC 280-647408/16	0.05	16569.0			331380.0	Y
4	IC 280-647408/15	0.1	33110.0			331100.0	Y
5	IC 280-647408/14	0.25	82183.0			328732.0	Y
6	IC 280-647408/13	0.4	132022.0			330055.0	Y
7	IC 280-647408/12	0.7	229246.0			327494.285714	Y
8	IC 280-647408/11	1.0	328904.0			328904.0	Y
9	IC 280-647408/10	2.5	833080.0			333232.0	Y



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Calibration / 2,4,6-Trinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

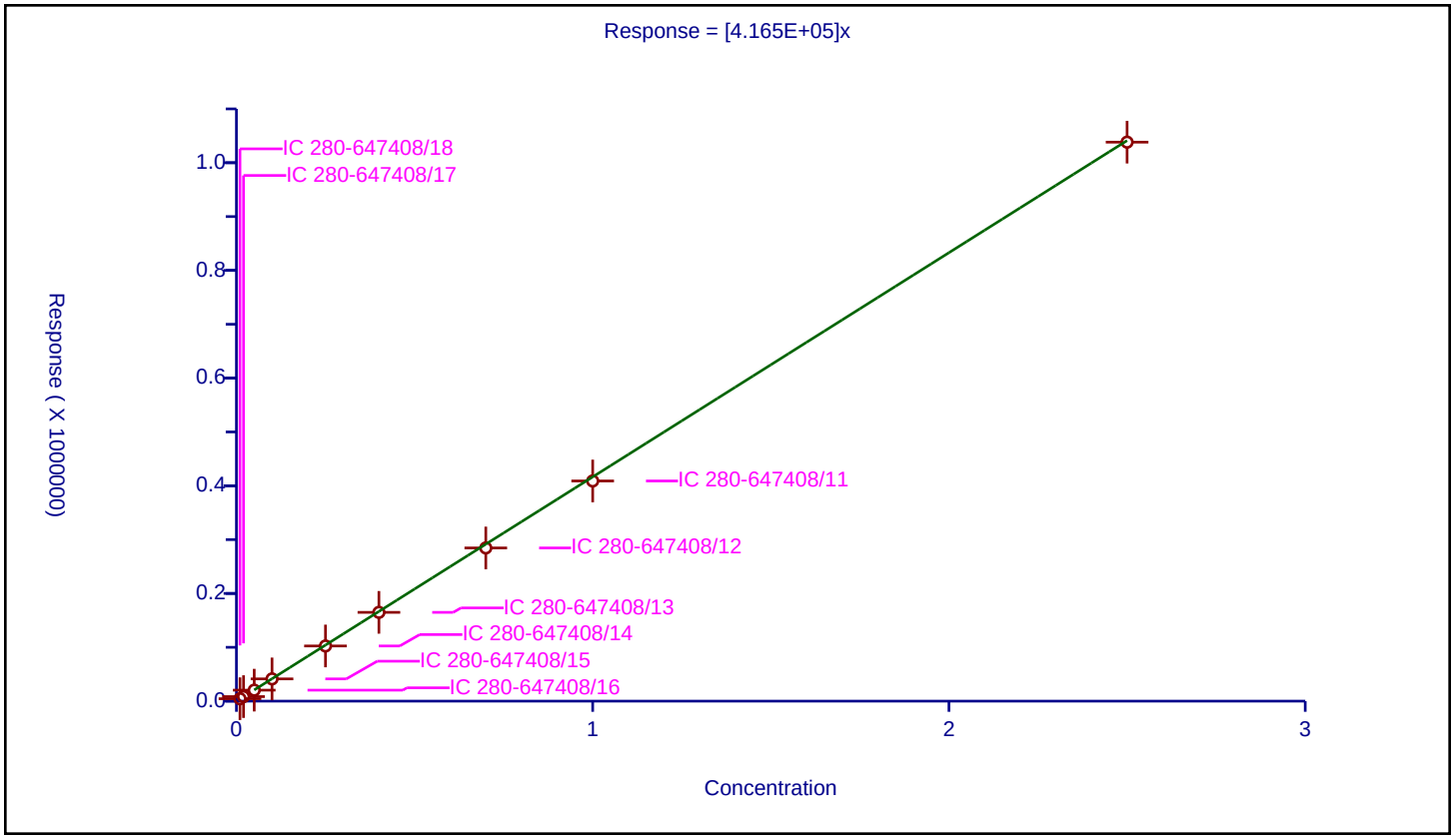
Curve Coefficients

Intercept:	0
Slope:	4.165E+05

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-647408/18	0.01	4534.0			453400.0	Y
2	IC 280-647408/17	0.02	8416.0			420800.0	Y
3	IC 280-647408/16	0.05	20396.0			407920.0	Y
4	IC 280-647408/15	0.1	41333.0			413330.0	Y
5	IC 280-647408/14	0.25	102460.0			409840.0	Y
6	IC 280-647408/13	0.4	164886.0			412215.0	Y
7	IC 280-647408/12	0.7	284522.0			406460.0	Y
8	IC 280-647408/11	1.0	408906.0			408906.0	Y
9	IC 280-647408/10	2.5	1038220.0			415288.0	Y



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Calibration / PETN

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

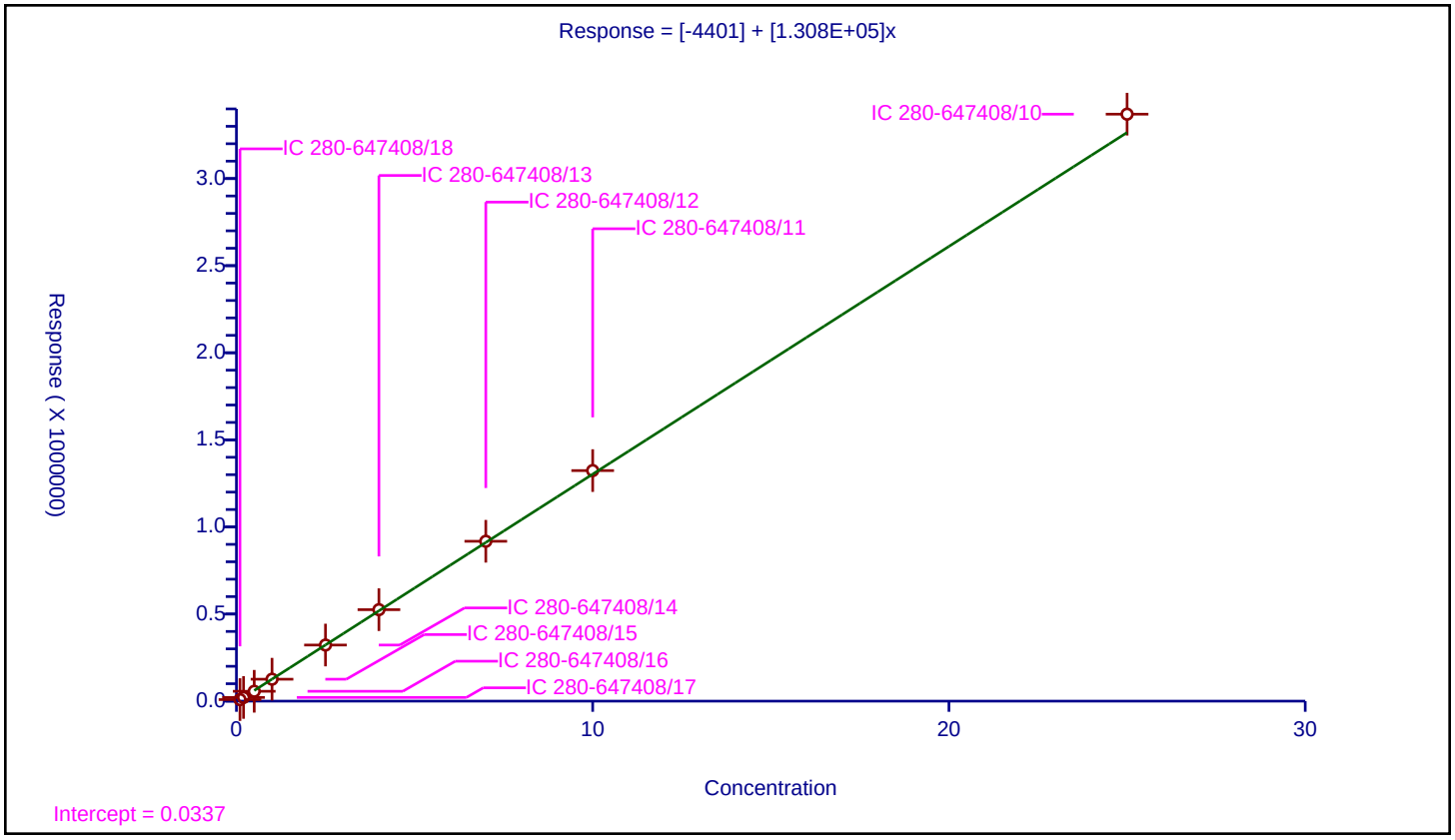
Curve Coefficients

Intercept:	-4401
Slope:	1.308E+05

Error Coefficients

Relative Standard Deviation:	3.1

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-647408/18	0.1	8982.0			89820.0	Y
2	IC 280-647408/17	0.2	21186.0			105930.0	Y
3	IC 280-647408/16	0.5	56701.0			113402.0	Y
4	IC 280-647408/15	1.0	125929.0			125929.0	Y
5	IC 280-647408/14	2.5	322087.0			128834.8	Y
6	IC 280-647408/13	4.0	525075.0			131268.75	Y
7	IC 280-647408/12	7.0	917804.0			131114.857143	Y
8	IC 280-647408/11	10.0	1323551.0			132355.1	Y
9	IC 280-647408/10	25.0	3369705.0			134788.2	Y



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FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Lab Sample ID: ICV 280-649950/20 | Calibration Date: 04/18/2024 00:04

Instrument ID: CHHPLC_X3 | Calib Start Date: 04/17/2024 20:37

GC Column: UltraCarb5uODS ID: 4.60(mm) | Calib End Date: 04/17/2024 23:41

Lab File ID: 04170020.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	198992	204787		517	502	2.9	20.0
HMX	Ave	95544	88884		465	500	-7.0	20.0
DNX	Ave	147260	152248		518	501	3.4	20.0
MNX	Ave	136698	141932		607	585	3.8	20.0
RDX	Ave	110767	107360		485	500	-3.1	20.0
Picric acid	Ave	79326	85128		537	500	7.3	20.0
1,3,5-Trinitrobenzene	Ave	222853	238232		535	500	6.9	20.0
1,3-Dinitrobenzene	Ave	299436	315400		527	500	5.3	20.0
Nitrobenzene	Ave	196329	207206		528	500	5.5	20.0
3,5-Dinitroaniline	Lin2		227972		517	500	3.4	20.0
Tetryl	Ave	181588	191842		528	500	5.6	20.0
Nitroglycerin	Ave	66464	70364		5290	5000	5.9	20.0
2,4,6-Trinitrotoluene	Ave	215192	218358		507	500	1.5	20.0
4-Amino-2,6-dinitrotoluene	Ave	149948	155448		518	500	3.7	20.0
2-Amino-4,6-dinitrotoluene	Ave	199809	208532		522	500	4.4	20.0
2,6-Dinitrotoluene	Ave	146914	147890		503	500	0.7	20.0
2,4-Dinitrotoluene	Ave	291844	298646		512	500	2.3	20.0
2-Nitrotoluene	Ave	129305	129160		499	500	-0.1	20.0
4-Nitrotoluene	Ave	112799	111300		493	500	-1.3	20.0
3-Nitrotoluene	Ave	144063	142054		493	500	-1.4	20.0
PETN	Ave	71937	78341		5450	5000	8.9	20.0
1,2-Dinitrobenzene	Lin2		127242		483	500	-3.5	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab Sample ID: ICV 280-649950/20 Calibration Date: 04/18/2024 00:04

Instrument ID: CHHPLC_X3 Calib Start Date: 04/17/2024 20:37

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 04/17/2024 23:41

Lab File ID: 04170020.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.48	6.38	6.58
HMX	6.58	6.43	6.73
DNX	6.79	6.69	6.89
MNX	7.20	7.05	7.35
RDX	7.58	7.43	7.73
Picric acid	7.80	7.67	7.97
1,3,5-Trinitrobenzene	8.66	8.51	8.81
1,3-Dinitrobenzene	9.27	9.13	9.43
Nitrobenzene	9.63	9.49	9.79
3,5-Dinitroaniline	9.87	9.73	10.03
Tetryl	9.95	9.81	10.11
Nitroglycerin	10.43	10.28	10.58
2,4,6-Trinitrotoluene	10.86	10.77	10.97
4-Amino-2,6-dinitrotoluene	11.04	10.95	11.15
2-Amino-4,6-dinitrotoluene	11.30	11.21	11.41
2,6-Dinitrotoluene	11.45	11.35	11.55
2,4-Dinitrotoluene	11.62	11.53	11.73
2-Nitrotoluene	12.41	12.27	12.57
4-Nitrotoluene	12.84	12.69	12.99
3-Nitrotoluene	13.39	13.25	13.55
PETN	14.48	14.33	14.63
1,2-Dinitrobenzene	8.52	8.37	8.67

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170020.D
Lims ID: ICV INT/DMT
Client ID:
Sample Type: ICV
Inject. Date: 18-Apr-2024 00:04:28 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: ICV INT/DMT
Operator ID: JZ/JG Instrument ID: CHHPLC_X3
Sublist:

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-Apr-2024 12:06:14 Calib Date: 17-Apr-2024 23:41:30
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170019.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1675

First Level Reviewer: LV5D Date: 18-Apr-2024 11:20:39

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
	3 TNX	1	6.475	6.476	-0.001	102803	0.5020	0.5166	M
	4 HMX	1	6.581	6.583	-0.002	44442	0.5000	0.4651	M
	6 DNX	1	6.788	6.789	-0.001	76276	0.5010	0.5180	M
	7 MNX	1	7.201	7.203	-0.002	82959	0.5845	0.6069	
	8 RDX	1	7.581	7.583	-0.002	53680	0.5000	0.4846	
	9 2,4,6-Trinitrophenol	1	7.795	7.816	-0.021	42564	0.5000	0.5366	
$	10 1,2-Dinitrobenzene	1	8.515	8.516	-0.001	63621	0.5000	0.4826	
	11 1,3,5-Trinitrobenzene	1	8.655	8.656	-0.001	119116	0.5000	0.5345	
	12 1,3-Dinitrobenzene	1	9.274	9.276	-0.002	157700	0.5000	0.5267	
	13 Nitrobenzene	1	9.628	9.636	-0.008	103603	0.5000	0.5277	
	14 3,5-Dinitroaniline	1	9.868	9.876	-0.008	113986	0.5000	0.5168	
	15 Tetryl	1	9.954	9.963	-0.009	95921	0.5000	0.5282	
	16 Nitroglycerin	2	10.428	10.429	-0.001	351818	5.00	5.29	
	17 2,4,6-Trinitrotoluene	1	10.861	10.869	-0.008	109179	0.5000	0.5074	
	18 4-Amino-2,6-dinitrotoluene	1	11.041	11.049	-0.008	77724	0.5000	0.5183	
	19 2-Amino-4,6-dinitrotoluene	1	11.301	11.309	-0.008	104266	0.5000	0.5218	
	20 2,6-Dinitrotoluene	1	11.448	11.449	-0.001	73945	0.5000	0.5033	
	21 2,4-Dinitrotoluene	1	11.621	11.629	-0.008	149323	0.5000	0.5117	
	22 o-Nitrotoluene	1	12.414	12.423	-0.009	64580	0.5000	0.4994	
	23 p-Nitrotoluene	1	12.841	12.843	-0.002	55650	0.5000	0.4934	
	24 m-Nitrotoluene	1	13.394	13.403	-0.009	71027	0.5000	0.4930	
	25 PETN	2	14.481	14.483	-0.002	391703	5.00	5.45	
	26 Ammonium Picrate	1		0.000			ND	ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Review Flags
M - Manually Integrated

Reagents:

8330Surrogate_00154	Amount Added:	50.00	Units: uL
8330 LCS_00134	Amount Added:	50.00	Units: uL
8330_OP_DMT_00026	Amount Added:	50.00	Units: uL

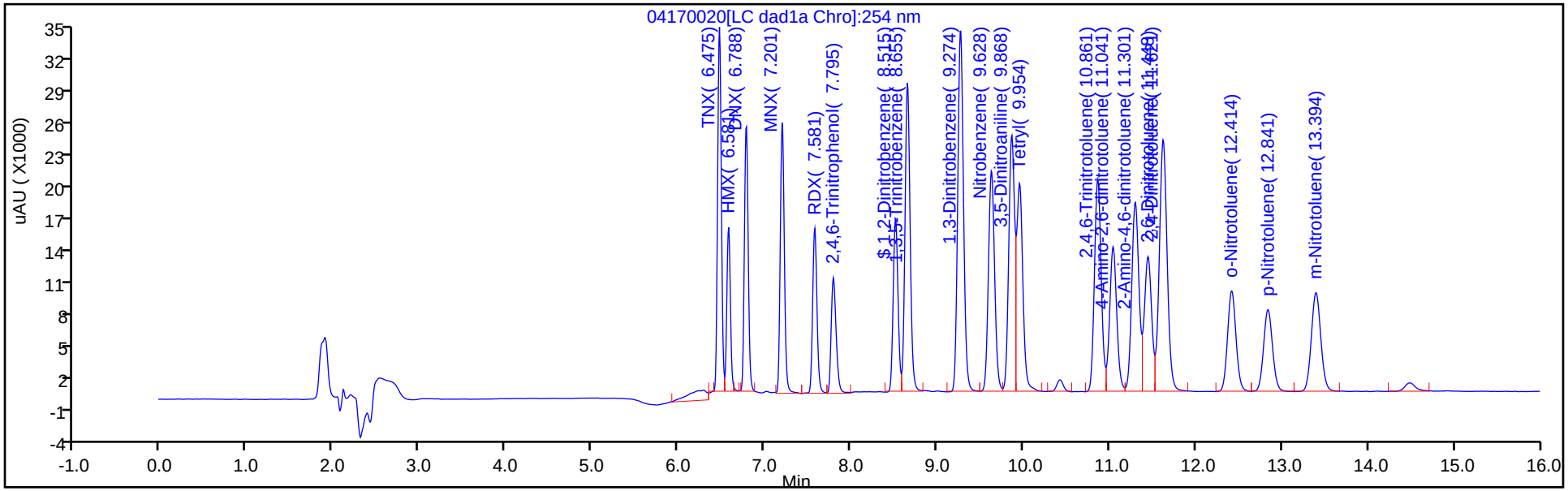
Report Date: 18-Apr-2024 12:06:16 Chrom Revision: 2.3 09-Apr-2024 17:43:44

Eurofins Denver

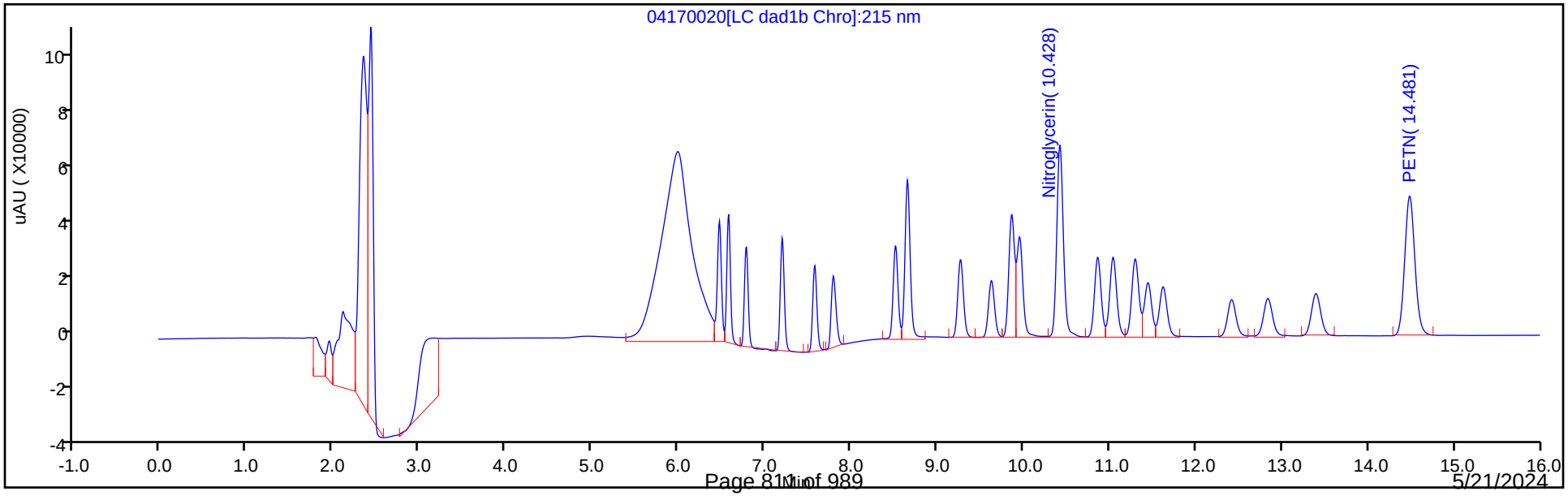
Data File: \\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170020.d

Injection Date:	18-Apr-2024 00:04:28	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	ICV INT/DMT			Worklist Smp#:	20
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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Manual Integration/User Assign Peak Report

Eurofins Denver

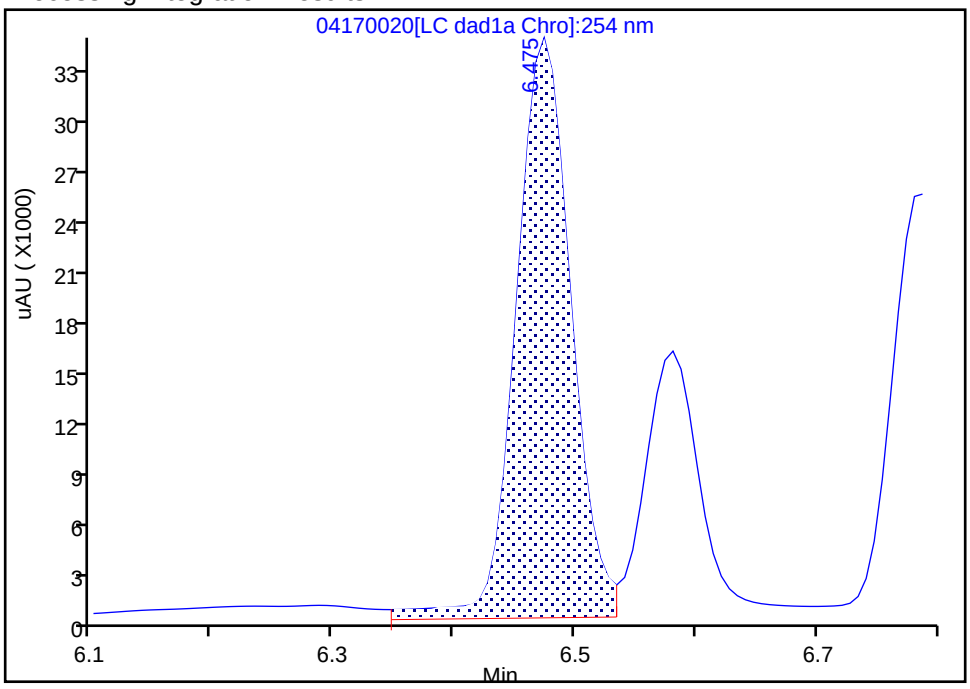
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170020.d				
Injection Date:	18-Apr-2024 00:04:28	Instrument ID:	CHHPLC_X3		
Lims ID:	ICV INT/DMT				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 TNX, CAS: 13980-04-6

Signal: 1

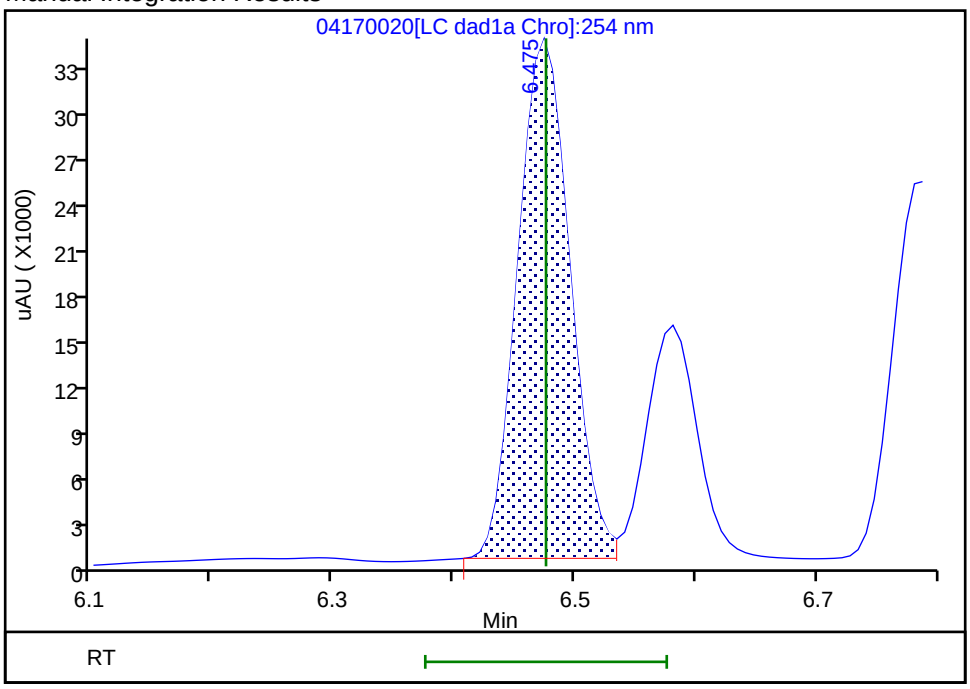
Processing Integration Results

RT: 6.47
Area: 110168
Amount: 0.553630
Amount Units: ug/mL



Manual Integration Results

RT: 6.47
Area: 102803
Amount: 0.516619
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:20:20 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

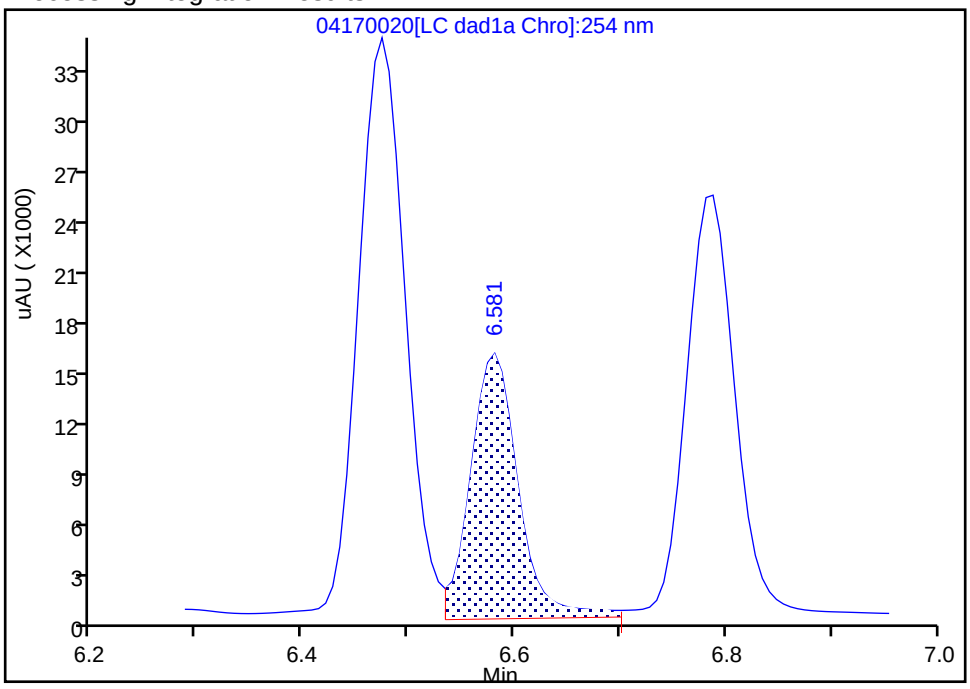
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170020.d				
Injection Date:	18-Apr-2024 00:04:28	Instrument ID:	CHHPLC_X3		
Lims ID:	ICV INT/DMT				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

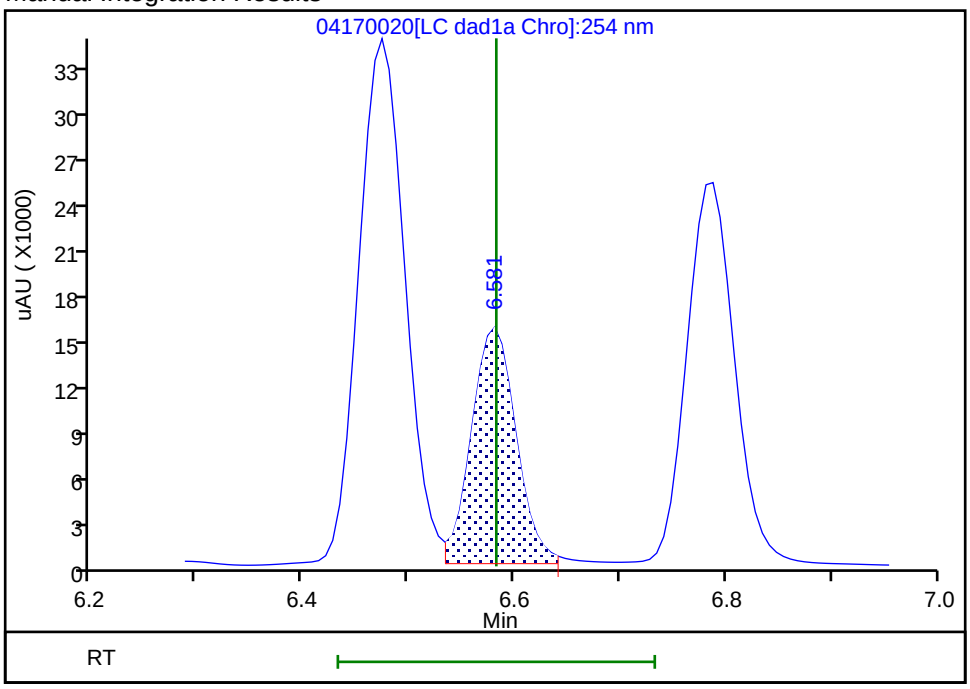
Processing Integration Results

RT: 6.58
Area: 49818
Amount: 0.521416
Amount Units: ug/mL



Manual Integration Results

RT: 6.58
Area: 44442
Amount: 0.465148
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:20:21 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

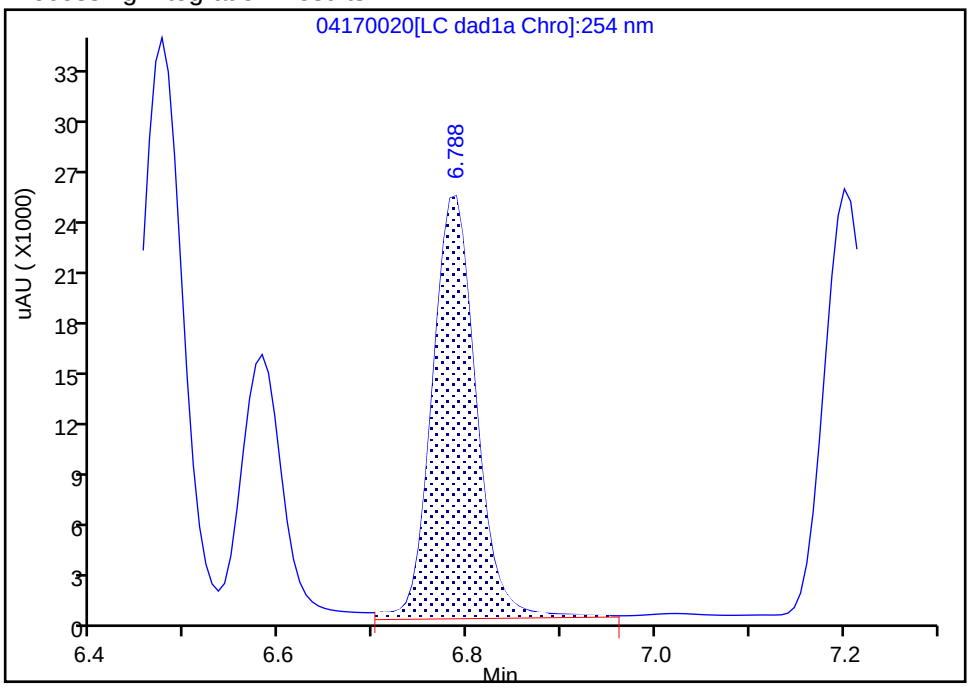
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240417-132364.b\04170020.d				
Injection Date:	18-Apr-2024 00:04:28	Instrument ID:	CHHPLC_X3		
Lims ID:	ICV INT/DMT				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 DNX, CAS: 80251-29-2

Signal: 1

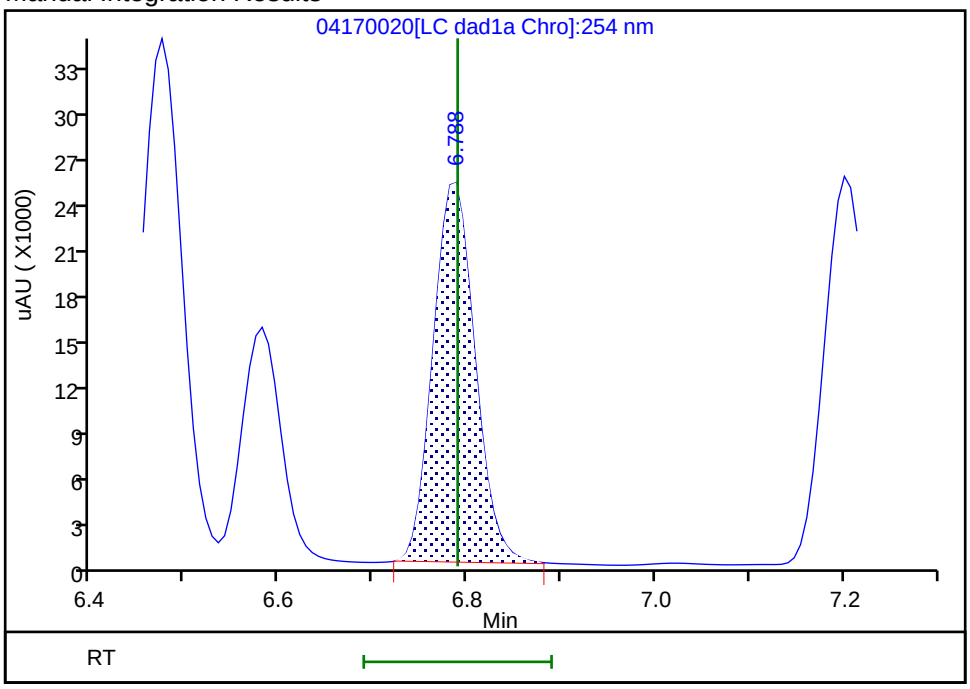
Processing Integration Results

RT: 6.79
Area: 81732
Amount: 0.555020
Amount Units: ug/mL



Manual Integration Results

RT: 6.79
Area: 76276
Amount: 0.517970
Amount Units: ug/mL



Reviewer: LV5D, 18-Apr-2024 11:20:24 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653063/7 | Calibration Date: 05/11/2024 14:53

Instrument ID: CHHPLC_X3 | Calib Start Date: 04/17/2024 20:37

GC Column: UltraCarb5uODS ID: 4.60(mm) | Calib End Date: 04/17/2024 23:41

Lab File ID: 05010007.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	95544	97868		256	250	2.4	20.0
RDX	Ave	110767	107792		243	250	-2.7	20.0
Picric acid	Ave	79326	82312		259	250	3.8	20.0
1,3,5-Trinitrobenzene	Ave	222853	222484		250	250	-0.2	20.0
1,3-Dinitrobenzene	Ave	299436	302840		253	250	1.1	20.0
Nitrobenzene	Ave	196329	195348		249	250	-0.5	20.0
3,5-Dinitroaniline	Lin2		227728		259	250	3.5	20.0
Tetryl	Ave	181588	171348		236	250	-5.6	20.0
Nitroglycerin	Ave	66464	67986		2560	2500	2.3	20.0
2,4,6-Trinitrotoluene	Ave	215192	217080		252	250	0.9	20.0
4-Amino-2,6-dinitrotoluene	Ave	149948	152156		254	250	1.5	20.0
2-Amino-4,6-dinitrotoluene	Ave	199809	203660		255	250	1.9	20.0
2,6-Dinitrotoluene	Ave	146914	149308		254	250	1.6	20.0
2,4-Dinitrotoluene	Ave	291844	298012		255	250	2.1	20.0
2-Nitrotoluene	Ave	129305	130104		252	250	0.6	20.0
4-Nitrotoluene	Ave	112799	109440		243	250	-3.0	20.0
3-Nitrotoluene	Ave	144063	138356		240	250	-4.0	20.0
PETN	Ave	71937	72393		2520	2500	0.6	20.0
1,2-Dinitrobenzene	Lin2		133420		253	250	1.1	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653063/7 Calibration Date: 05/11/2024 14:53

Instrument ID: CHHPLC_X3 Calib Start Date: 04/17/2024 20:37

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 04/17/2024 23:41

Lab File ID: 05010007.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.61	6.46	6.76
RDX	7.63	7.48	7.78
Picric acid	7.85	7.70	8.00
1,3,5-Trinitrobenzene	8.71	8.56	8.86
1,3-Dinitrobenzene	9.32	9.17	9.47
Nitrobenzene	9.67	9.52	9.82
3,5-Dinitroaniline	9.90	9.75	10.05
Tetryl	9.99	9.84	10.14
Nitroglycerin	10.46	10.31	10.61
2,4,6-Trinitrotoluene	10.89	10.79	10.99
4-Amino-2,6-dinitrotoluene	11.06	10.96	11.16
2-Amino-4,6-dinitrotoluene	11.32	11.22	11.42
2,6-Dinitrotoluene	11.46	11.36	11.56
2,4-Dinitrotoluene	11.64	11.54	11.74
2-Nitrotoluene	12.42	12.27	12.57
4-Nitrotoluene	12.83	12.68	12.98
3-Nitrotoluene	13.37	13.22	13.52
PETN	14.42	14.27	14.57
1,2-Dinitrobenzene	8.57	8.42	8.72

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\05010007.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 11-May-2024 14:53:45 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub26

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 14-May-2024 14:09:25 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1620

First Level Reviewer: LV5D Date: 11-May-2024 15:17:01

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
4 HMX	1	6.611	6.611	0.000	24467	0.2500	0.2561	
8 RDX	1	7.631	7.631	0.000	26948	0.2500	0.2433	
9 2,4,6-Trinitrophenol	1	7.845	7.845	0.000	20578	0.2500	0.2594	
$ 10 1,2-Dinitrobenzene	1	8.565	8.565	0.000	33355	0.2500	0.2527	
11 1,3,5-Trinitrobenzene	1	8.705	8.705	0.000	55621	0.2500	0.2496	
12 1,3-Dinitrobenzene	1	9.318	9.318	0.000	75710	0.2500	0.2528	
13 Nitrobenzene	1	9.671	9.671	0.000	48837	0.2500	0.2488	
14 3,5-Dinitroaniline	1	9.904	9.904	0.000	56932	0.2500	0.2587	
15 Tetryl	1	9.991	9.991	0.000	42837	0.2500	0.2359	
16 Nitroglycerin	2	10.458	10.458	0.000	169964	2.50	2.56	
17 2,4,6-Trinitrotoluene	1	10.891	10.891	0.000	54270	0.2500	0.2522	
18 4-Amino-2,6-dinitrotoluene	1	11.064	11.064	0.000	38039	0.2500	0.2537	
19 2-Amino-4,6-dinitrotoluene	1	11.318	11.318	0.000	50915	0.2500	0.2548	
20 2,6-Dinitrotoluene	1	11.464	11.464	0.000	37327	0.2500	0.2541	
21 2,4-Dinitrotoluene	1	11.638	11.638	0.000	74503	0.2500	0.2553	
22 o-Nitrotoluene	1	12.418	12.418	0.000	32526	0.2500	0.2515	
23 p-Nitrotoluene	1	12.831	12.831	0.000	27360	0.2500	0.2426	
24 m-Nitrotoluene	1	13.371	13.371	0.000	34589	0.2500	0.2401	
25 PETN	2	14.418	14.418	0.000	180982	2.50	2.52	

QC Flag Legend

Processing Flags

Reagents:

8330IntermStk_00080 Amount Added: 25.00 Units: uL

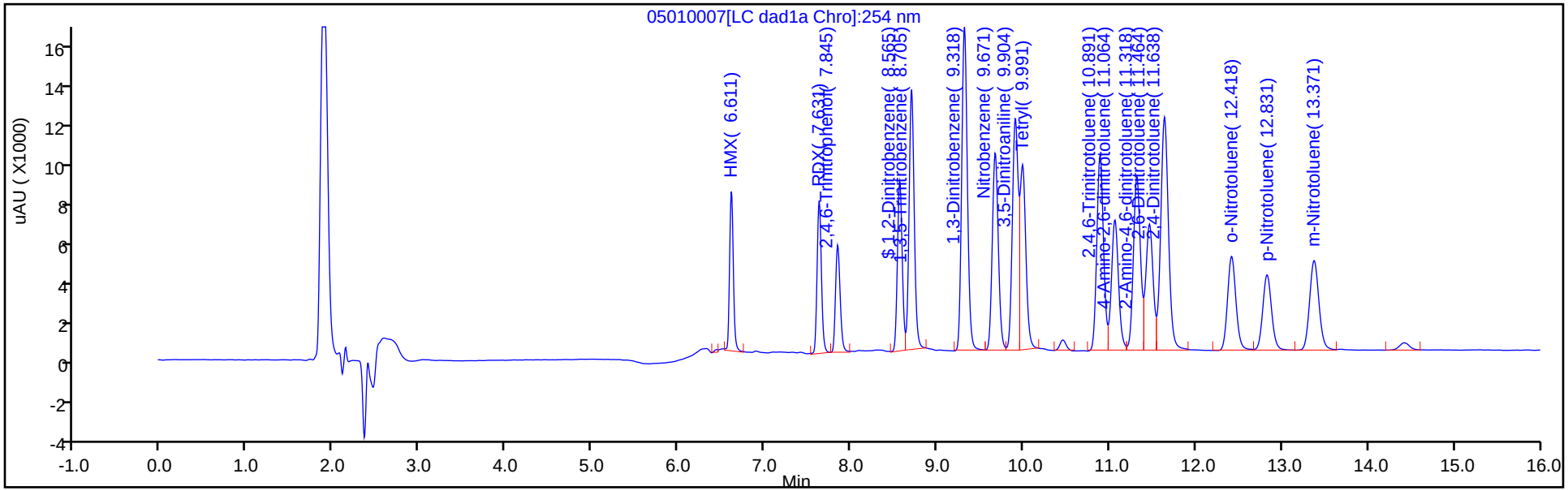
Report Date: 14-May-2024 14:09:25 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

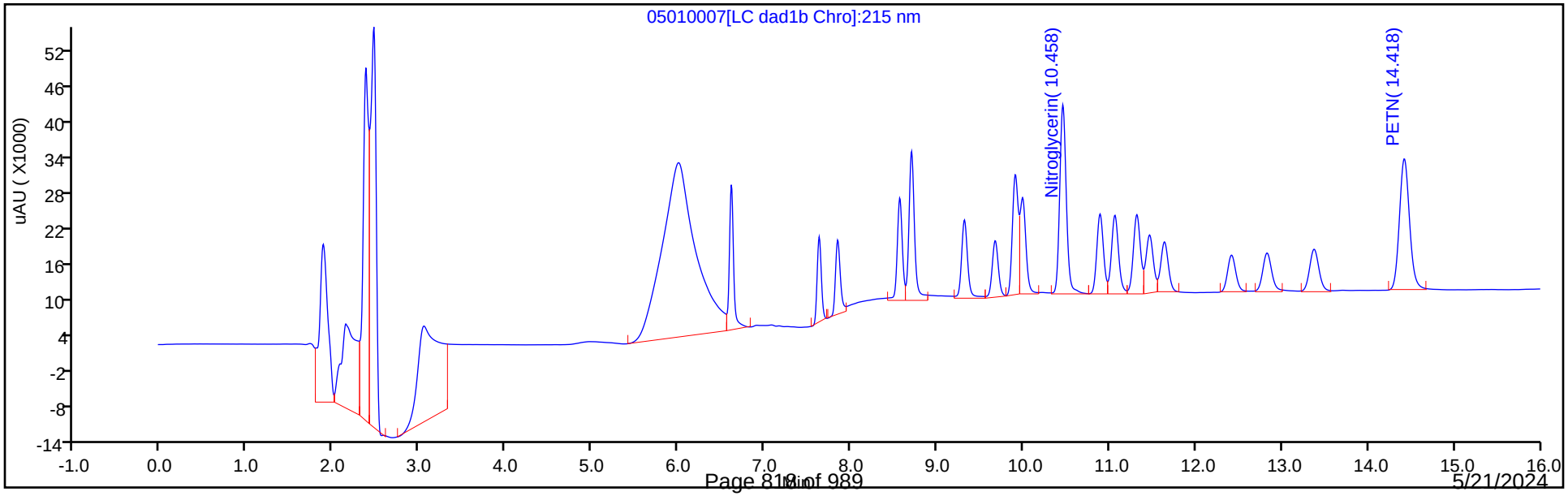
Data File: \\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010007.d

Injection Date:	11-May-2024 14:53:45	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	7
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653063/38 | Calibration Date: 05/11/2024 19:06

Instrument ID: CHHPLC_X3 | Calib Start Date: 04/17/2024 20:37

GC Column: UltraCarb5uODS ID: 4.60(mm) | Calib End Date: 04/17/2024 23:41

Lab File ID: 05010038.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	95544	95192		249	250	-0.4	20.0
RDX	Ave	110767	107544		243	250	-2.9	20.0
Picric acid	Ave	79326	82008		258	250	3.4	20.0
1,3,5-Trinitrobenzene	Ave	222853	222344		249	250	-0.2	20.0
1,3-Dinitrobenzene	Ave	299436	303368		253	250	1.3	20.0
Nitrobenzene	Ave	196329	194404		248	250	-1.0	20.0
3,5-Dinitroaniline	Lin2		226628		257	250	3.0	20.0
Tetryl	Ave	181588	172176		237	250	-5.2	20.0
Nitroglycerin	Ave	66464	67974		2560	2500	2.3	20.0
2,4,6-Trinitrotoluene	Ave	215192	216432		251	250	0.6	20.0
4-Amino-2,6-dinitrotoluene	Ave	149948	151836		253	250	1.3	20.0
2-Amino-4,6-dinitrotoluene	Ave	199809	200124		250	250	0.2	20.0
2,6-Dinitrotoluene	Ave	146914	152968		260	250	4.1	20.0
2,4-Dinitrotoluene	Ave	291844	297296		255	250	1.9	20.0
2-Nitrotoluene	Ave	129305	129376		250	250	0.0	20.0
4-Nitrotoluene	Ave	112799	109128		242	250	-3.3	20.0
3-Nitrotoluene	Ave	144063	138160		240	250	-4.1	20.0
PETN	Ave	71937	72194		2510	2500	0.4	20.0
1,2-Dinitrobenzene	Lin2		134452		255	250	1.9	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653063/38 Calibration Date: 05/11/2024 19:06

Instrument ID: CHHPLC_X3 Calib Start Date: 04/17/2024 20:37

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 04/17/2024 23:41

Lab File ID: 05010038.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.61	6.46	6.76
RDX	7.63	7.48	7.78
Picric acid	7.84	7.70	8.00
1,3,5-Trinitrobenzene	8.69	8.56	8.86
1,3-Dinitrobenzene	9.31	9.17	9.47
Nitrobenzene	9.66	9.52	9.82
3,5-Dinitroaniline	9.89	9.75	10.05
Tetryl	9.97	9.84	10.14
Nitroglycerin	10.44	10.31	10.61
2,4,6-Trinitrotoluene	10.87	10.79	10.99
4-Amino-2,6-dinitrotoluene	11.05	10.96	11.16
2-Amino-4,6-dinitrotoluene	11.30	11.22	11.42
2,6-Dinitrotoluene	11.45	11.36	11.56
2,4-Dinitrotoluene	11.62	11.54	11.74
2-Nitrotoluene	12.39	12.27	12.57
4-Nitrotoluene	12.81	12.68	12.98
3-Nitrotoluene	13.35	13.22	13.52
PETN	14.39	14.27	14.57
1,2-Dinitrobenzene	8.56	8.42	8.72

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\05010038.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 11-May-2024 19:06:25 ALS Bottle#: 7 Worklist Smp#: 38
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub26

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 14-May-2024 14:09:36 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1620

First Level Reviewer: LV5D Date: 14-May-2024 12:53:28

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
4 HMX	1	6.613	6.611	0.002	23798	0.2500	0.2491	M
8 RDX	1	7.626	7.631	-0.005	26886	0.2500	0.2427	
9 2,4,6-Trinitrophenol	1	7.840	7.845	-0.005	20502	0.2500	0.2585	
$ 10 1,2-Dinitrobenzene	1	8.560	8.565	-0.005	33613	0.2500	0.2546	
11 1,3,5-Trinitrobenzene	1	8.693	8.705	-0.012	55586	0.2500	0.2494	
12 1,3-Dinitrobenzene	1	9.306	9.318	-0.012	75842	0.2500	0.2533	
13 Nitrobenzene	1	9.659	9.671	-0.012	48601	0.2500	0.2475	
14 3,5-Dinitroaniline	1	9.893	9.904	-0.011	56657	0.2500	0.2574	
15 Tetryl	1	9.973	9.991	-0.018	43044	0.2500	0.2370	
16 Nitroglycerin	2	10.439	10.458	-0.019	169936	2.50	2.56	
17 2,4,6-Trinitrotoluene	1	10.873	10.891	-0.018	54108	0.2500	0.2514	
18 4-Amino-2,6-dinitrotoluene	1	11.046	11.064	-0.018	37959	0.2500	0.2531	
19 2-Amino-4,6-dinitrotoluene	1	11.299	11.318	-0.019	50031	0.2500	0.2504	
20 2,6-Dinitrotoluene	1	11.446	11.464	-0.018	38242	0.2500	0.2603	
21 2,4-Dinitrotoluene	1	11.619	11.638	-0.019	74324	0.2500	0.2547	
22 o-Nitrotoluene	1	12.393	12.418	-0.025	32344	0.2500	0.2501	
23 p-Nitrotoluene	1	12.806	12.831	-0.025	27282	0.2500	0.2419	
24 m-Nitrotoluene	1	13.353	13.371	-0.018	34540	0.2500	0.2398	
25 PETN	2	14.393	14.418	-0.025	180484	2.50	2.51	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00080 Amount Added: 25.00 Units: uL

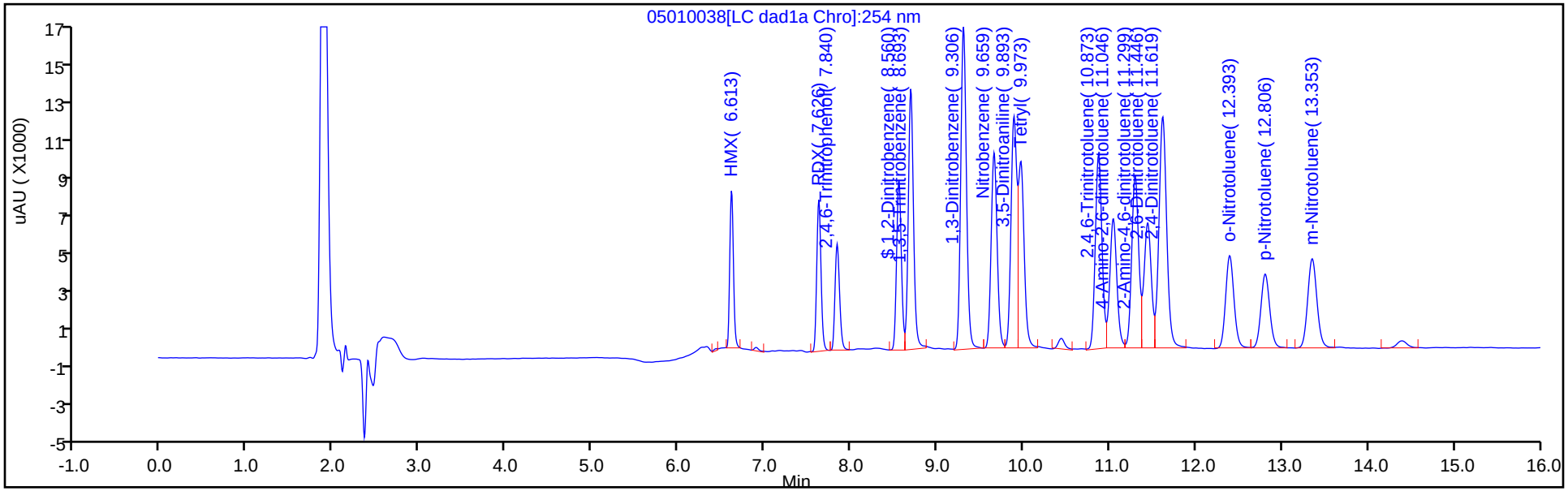
Report Date: 14-May-2024 14:09:37 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

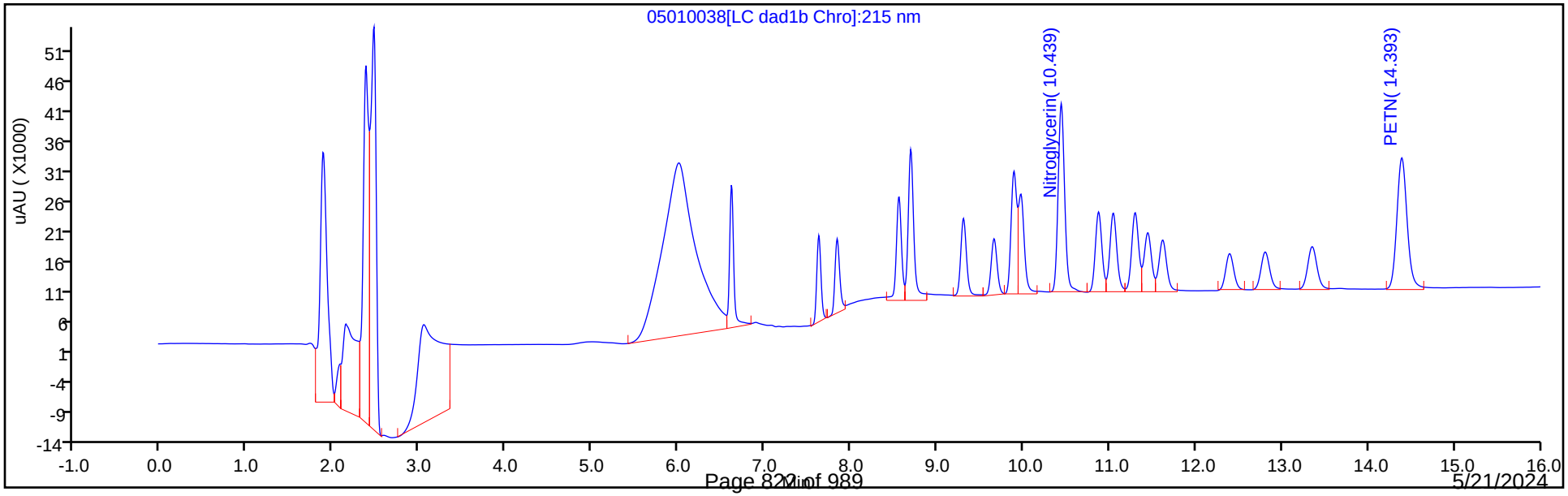
Data File: \\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010038.d

Injection Date:	11-May-2024 19:06:25	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	38
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins Denver

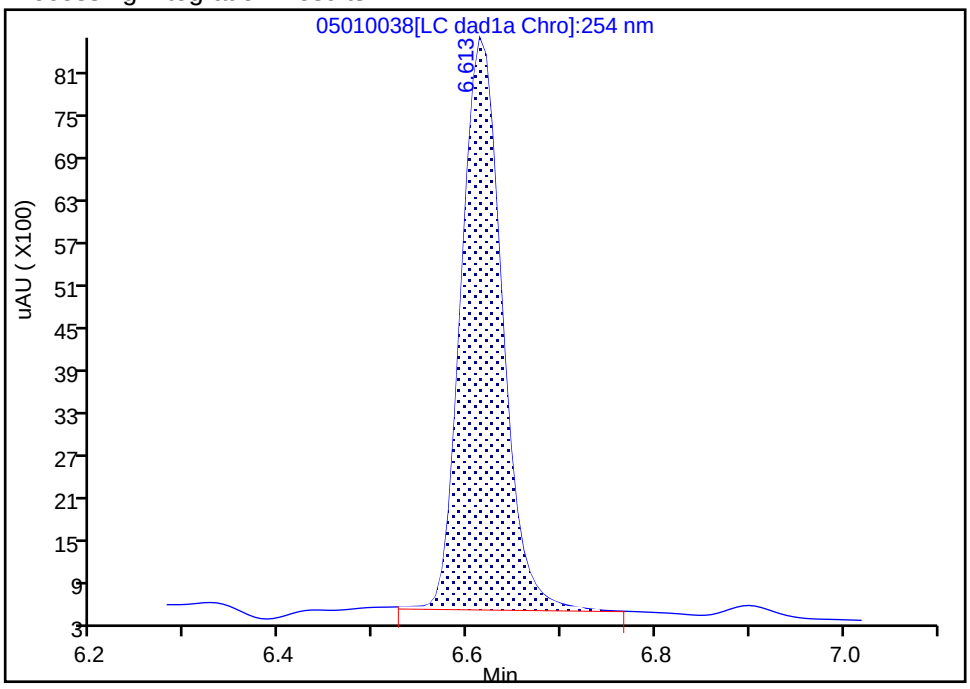
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010038.d				
Injection Date:	11-May-2024 19:06:25	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	38
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

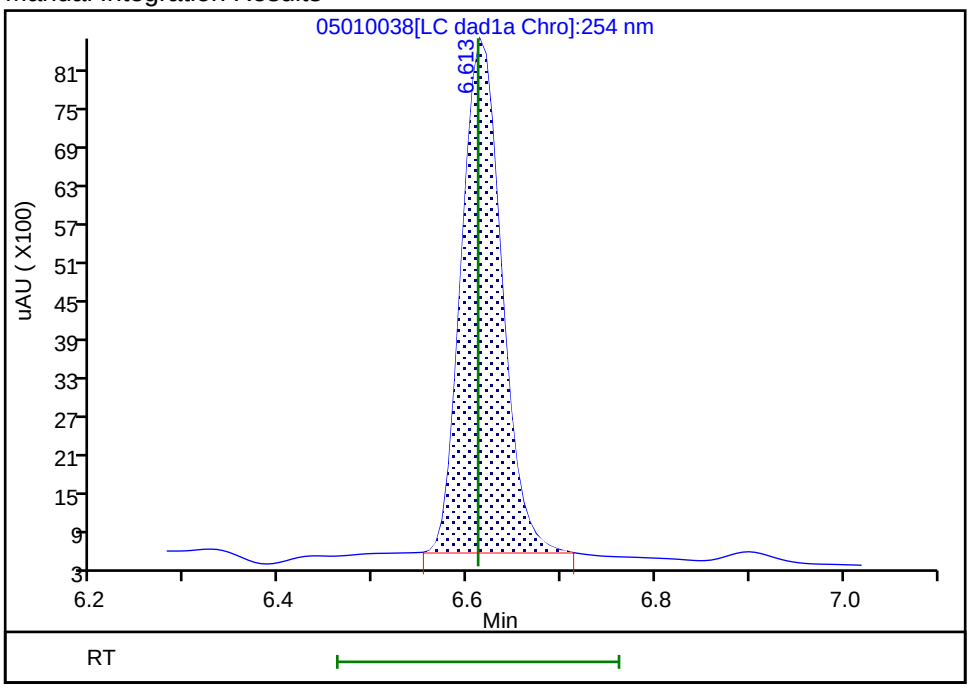
Processing Integration Results

RT: 6.61
Area: 24435
Amount: 0.255747
Amount Units: ug/mL



Manual Integration Results

RT: 6.61
Area: 23798
Amount: 0.249080
Amount Units: ug/mL



Reviewer: LV5D, 14-May-2024 12:53:27 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653063/48 | Calibration Date: 05/11/2024 22:56

Instrument ID: CHHPLC_X3 | Calib Start Date: 04/17/2024 20:37

GC Column: UltraCarb5uODS ID: 4.60(mm) | Calib End Date: 04/17/2024 23:41

Lab File ID: 05010048.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	95544	94884		248	250	-0.7	20.0
RDX	Ave	110767	107444		242	250	-3.0	20.0
Picric acid	Ave	79326	82548		260	250	4.1	20.0
1,3,5-Trinitrobenzene	Ave	222853	222220		249	250	-0.3	20.0
1,3-Dinitrobenzene	Ave	299436	302772		253	250	1.1	20.0
Nitrobenzene	Ave	196329	191536		244	250	-2.4	20.0
3,5-Dinitroaniline	Lin2		216220		246	250	-1.7	20.0
Tetryl	Ave	181588	181576		250	250	-0.0	20.0
Nitroglycerin	Ave	66464	68184		2560	2500	2.6	20.0
2,4,6-Trinitrotoluene	Ave	215192	214964		250	250	-0.1	20.0
4-Amino-2,6-dinitrotoluene	Ave	149948	152648		255	250	1.8	20.0
2-Amino-4,6-dinitrotoluene	Ave	199809	199944		250	250	0.0	20.0
2,6-Dinitrotoluene	Ave	146914	152400		259	250	3.7	20.0
2,4-Dinitrotoluene	Ave	291844	296824		254	250	1.7	20.0
2-Nitrotoluene	Ave	129305	129056		250	250	-0.2	20.0
4-Nitrotoluene	Ave	112799	107804		239	250	-4.4	20.0
3-Nitrotoluene	Ave	144063	135920		236	250	-5.7	20.0
PETN	Ave	71937	72523		2520	2500	0.8	20.0
1,2-Dinitrobenzene	Lin2		133344		253	250	1.0	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653063/48 Calibration Date: 05/11/2024 22:56

Instrument ID: CHHPLC_X3 Calib Start Date: 04/17/2024 20:37

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 04/17/2024 23:41

Lab File ID: 05010048.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.61	6.46	6.76
RDX	7.63	7.48	7.78
Picric acid	7.84	7.70	8.00
1,3,5-Trinitrobenzene	8.70	8.56	8.86
1,3-Dinitrobenzene	9.31	9.17	9.47
Nitrobenzene	9.66	9.52	9.82
3,5-Dinitroaniline	9.89	9.75	10.05
Tetryl	9.98	9.84	10.14
Nitroglycerin	10.45	10.31	10.61
2,4,6-Trinitrotoluene	10.88	10.79	10.99
4-Amino-2,6-dinitrotoluene	11.05	10.96	11.16
2-Amino-4,6-dinitrotoluene	11.30	11.22	11.42
2,6-Dinitrotoluene	11.45	11.36	11.56
2,4-Dinitrotoluene	11.63	11.54	11.74
2-Nitrotoluene	12.41	12.27	12.57
4-Nitrotoluene	12.82	12.68	12.98
3-Nitrotoluene	13.37	13.22	13.52
PETN	14.43	14.27	14.57
1,2-Dinitrobenzene	8.56	8.42	8.72

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\05010048.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 11-May-2024 22:56:00 ALS Bottle#: 7 Worklist Smp#: 48
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub26

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 14-May-2024 14:09:46 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1620

First Level Reviewer: LV5D Date: 14-May-2024 13:23:02

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
4 HMX	1	6.613	6.611	0.002	23721	0.2500	0.2483	M
8 RDX	1	7.626	7.631	-0.005	26861	0.2500	0.2425	
9 2,4,6-Trinitrophenol	1	7.839	7.845	-0.006	20637	0.2500	0.2602	
$ 10 1,2-Dinitrobenzene	1	8.559	8.565	-0.006	33336	0.2500	0.2525	
11 1,3,5-Trinitrobenzene	1	8.699	8.705	-0.006	55555	0.2500	0.2493	
12 1,3-Dinitrobenzene	1	9.306	9.318	-0.012	75693	0.2500	0.2528	
13 Nitrobenzene	1	9.659	9.671	-0.012	47884	0.2500	0.2439	
14 3,5-Dinitroaniline	1	9.893	9.904	-0.011	54055	0.2500	0.2457	
15 Tetryl	1	9.979	9.991	-0.012	45394	0.2500	0.2500	
16 Nitroglycerin	2	10.446	10.458	-0.012	170461	2.50	2.56	
17 2,4,6-Trinitrotoluene	1	10.879	10.891	-0.012	53741	0.2500	0.2497	
18 4-Amino-2,6-dinitrotoluene	1	11.046	11.064	-0.018	38162	0.2500	0.2545	
19 2-Amino-4,6-dinitrotoluene	1	11.299	11.318	-0.019	49986	0.2500	0.2502	
20 2,6-Dinitrotoluene	1	11.446	11.464	-0.018	38100	0.2500	0.2593	
21 2,4-Dinitrotoluene	1	11.626	11.638	-0.012	74206	0.2500	0.2543	
22 o-Nitrotoluene	1	12.406	12.418	-0.012	32264	0.2500	0.2495	
23 p-Nitrotoluene	1	12.819	12.831	-0.012	26951	0.2500	0.2389	
24 m-Nitrotoluene	1	13.373	13.371	0.002	33980	0.2500	0.2359	
25 PETN	2	14.426	14.418	0.008	181308	2.50	2.52	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00080 Amount Added: 25.00 Units: uL

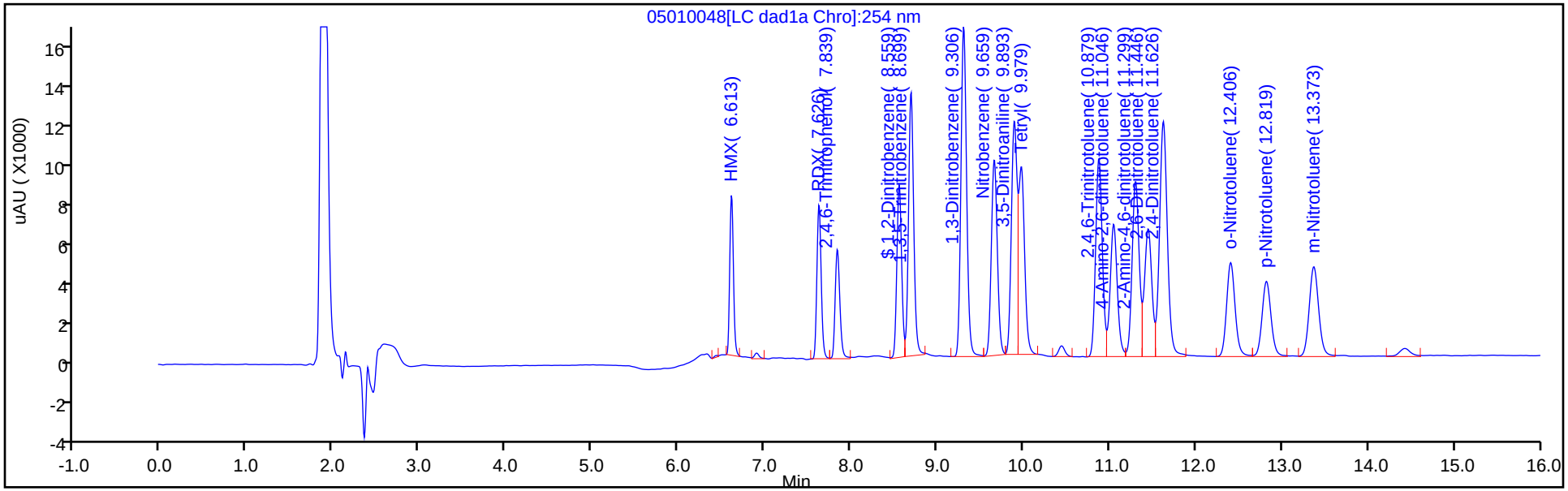
Report Date: 14-May-2024 14:09:46 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

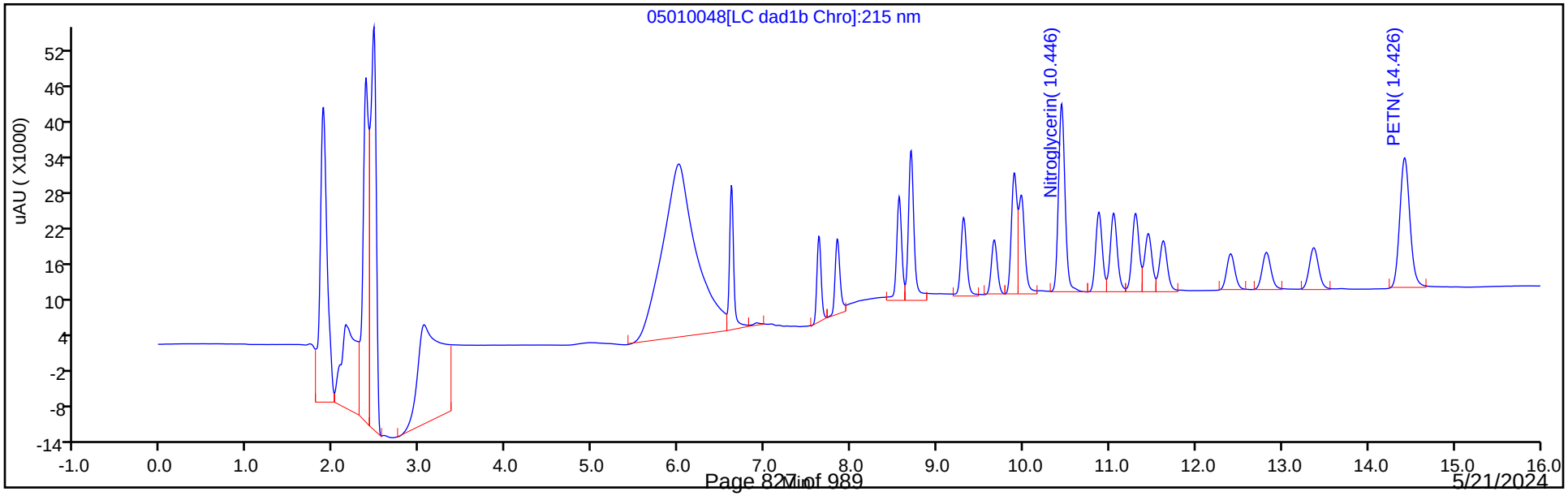
Data File: \\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010048.d

Injection Date:	11-May-2024 22:56:00	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	48
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

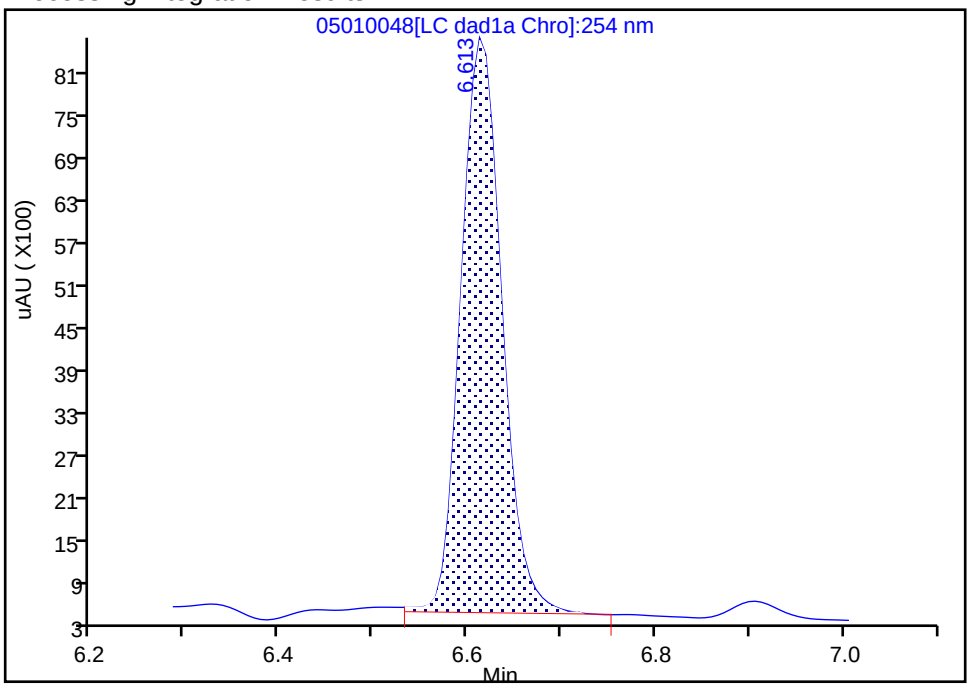
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010048.d				
Injection Date:	11-May-2024 22:56:00	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	48
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

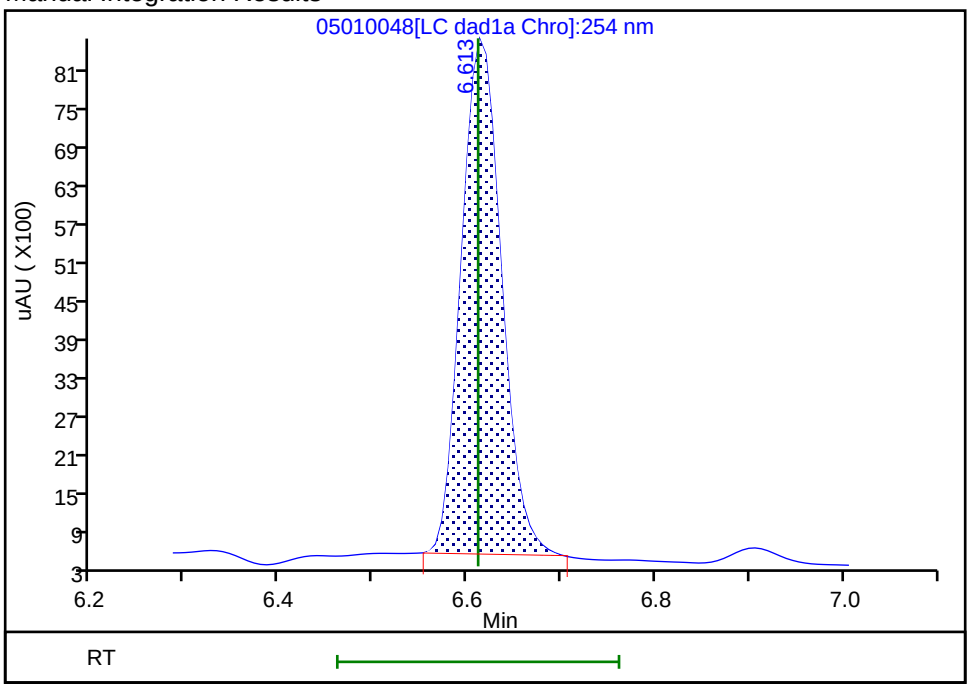
Processing Integration Results

RT: 6.61
Area: 24340
Amount: 0.254752
Amount Units: ug/mL



Manual Integration Results

RT: 6.61
Area: 23721
Amount: 0.248274
Amount Units: ug/mL



Reviewer: LV5D, 14-May-2024 14:09:18 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653871/39 | Calibration Date: 05/18/2024 01:43

Instrument ID: CHHPLC_X3 | Calib Start Date: 04/17/2024 20:37

GC Column: UltraCarb5uODS ID: 4.60(mm) | Calib End Date: 04/17/2024 23:41

Lab File ID: 05170039.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	95544	94988		249	250	-0.6	20.0
RDX	Ave	110767	109808		248	250	-0.9	20.0
Picric acid	Ave	79326	81824		258	250	3.1	20.0
1,3,5-Trinitrobenzene	Ave	222853	219764		247	250	-1.4	20.0
1,3-Dinitrobenzene	Ave	299436	305028		255	250	1.9	20.0
Nitrobenzene	Ave	196329	190440		243	250	-3.0	20.0
3,5-Dinitroaniline	Lin2		218676		248	250	-0.6	20.0
Tetryl	Ave	181588	180640		249	250	-0.5	20.0
Nitroglycerin	Ave	66464	68429		2570	2500	3.0	20.0
2,4,6-Trinitrotoluene	Ave	215192	216712		252	250	0.7	20.0
4-Amino-2,6-dinitrotoluene	Ave	149948	153036		255	250	2.1	20.0
2-Amino-4,6-dinitrotoluene	Ave	199809	201944		253	250	1.1	20.0
2,6-Dinitrotoluene	Ave	146914	150508		256	250	2.4	20.0
2,4-Dinitrotoluene	Ave	291844	299444		257	250	2.6	20.0
2-Nitrotoluene	Ave	129305	123696		239	250	-4.3	20.0
4-Nitrotoluene	Ave	112799	106860		237	250	-5.3	20.0
3-Nitrotoluene	Ave	144063	134924		234	250	-6.3	20.0
PETN	Ave	71937	72874		2530	2500	1.3	20.0
1,2-Dinitrobenzene	Lin2		133632		253	250	1.2	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653871/39 Calibration Date: 05/18/2024 01:43

Instrument ID: CHHPLC_X3 Calib Start Date: 04/17/2024 20:37

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 04/17/2024 23:41

Lab File ID: 05170039.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.62	6.47	6.77
RDX	7.63	7.48	7.78
Picric acid	7.86	7.71	8.01
1,3,5-Trinitrobenzene	8.69	8.55	8.85
1,3-Dinitrobenzene	9.30	9.16	9.46
Nitrobenzene	9.65	9.52	9.82
3,5-Dinitroaniline	9.88	9.74	10.04
Tetryl	9.97	9.83	10.13
Nitroglycerin	10.44	10.31	10.61
2,4,6-Trinitrotoluene	10.87	10.78	10.98
4-Amino-2,6-dinitrotoluene	11.03	10.94	11.14
2-Amino-4,6-dinitrotoluene	11.29	11.20	11.40
2,6-Dinitrotoluene	11.44	11.35	11.55
2,4-Dinitrotoluene	11.61	11.52	11.72
2-Nitrotoluene	12.39	12.26	12.56
4-Nitrotoluene	12.80	12.67	12.97
3-Nitrotoluene	13.35	13.22	13.52
PETN	14.39	14.29	14.59
1,2-Dinitrobenzene	8.55	8.41	8.71

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\05170039.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 18-May-2024 01:43:21 ALS Bottle#: 7 Worklist Smp#: 39
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub26

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-May-2024 10:51:45 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1674

First Level Reviewer: LV5D Date: 18-May-2024 10:33:29

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
4 HMX	1	6.620	6.617	0.003	23747	0.2500	0.2485	M
8 RDX	1	7.626	7.630	-0.004	27452	0.2500	0.2478	
9 2,4,6-Trinitrophenol	1	7.860	7.863	-0.003	20456	0.2500	0.2579	
$ 10 1,2-Dinitrobenzene	1	8.553	8.557	-0.004	33408	0.2500	0.2531	
11 1,3,5-Trinitrobenzene	1	8.693	8.697	-0.004	54941	0.2500	0.2465	
12 1,3-Dinitrobenzene	1	9.300	9.310	-0.010	76257	0.2500	0.2547	
13 Nitrobenzene	1	9.653	9.670	-0.017	47610	0.2500	0.2425	
14 3,5-Dinitroaniline	1	9.880	9.890	-0.010	54669	0.2500	0.2484	
15 Tetryl	1	9.966	9.983	-0.017	45160	0.2500	0.2487	
16 Nitroglycerin	2	10.440	10.457	-0.017	171073	2.50	2.57	
17 2,4,6-Trinitrotoluene	1	10.873	10.883	-0.010	54178	0.2500	0.2518	
18 4-Amino-2,6-dinitrotoluene	1	11.033	11.043	-0.010	38259	0.2500	0.2551	
19 2-Amino-4,6-dinitrotoluene	1	11.286	11.297	-0.011	50486	0.2500	0.2527	
20 2,6-Dinitrotoluene	1	11.440	11.450	-0.010	37627	0.2500	0.2561	
21 2,4-Dinitrotoluene	1	11.613	11.623	-0.010	74861	0.2500	0.2565	
22 o-Nitrotoluene	1	12.386	12.410	-0.024	30924	0.2500	0.2392	
23 p-Nitrotoluene	1	12.800	12.823	-0.023	26715	0.2500	0.2368	
24 m-Nitrotoluene	1	13.346	13.370	-0.024	33731	0.2500	0.2341	
25 PETN	2	14.386	14.437	-0.051	182184	2.50	2.53	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00081 Amount Added: 25.00 Units: uL

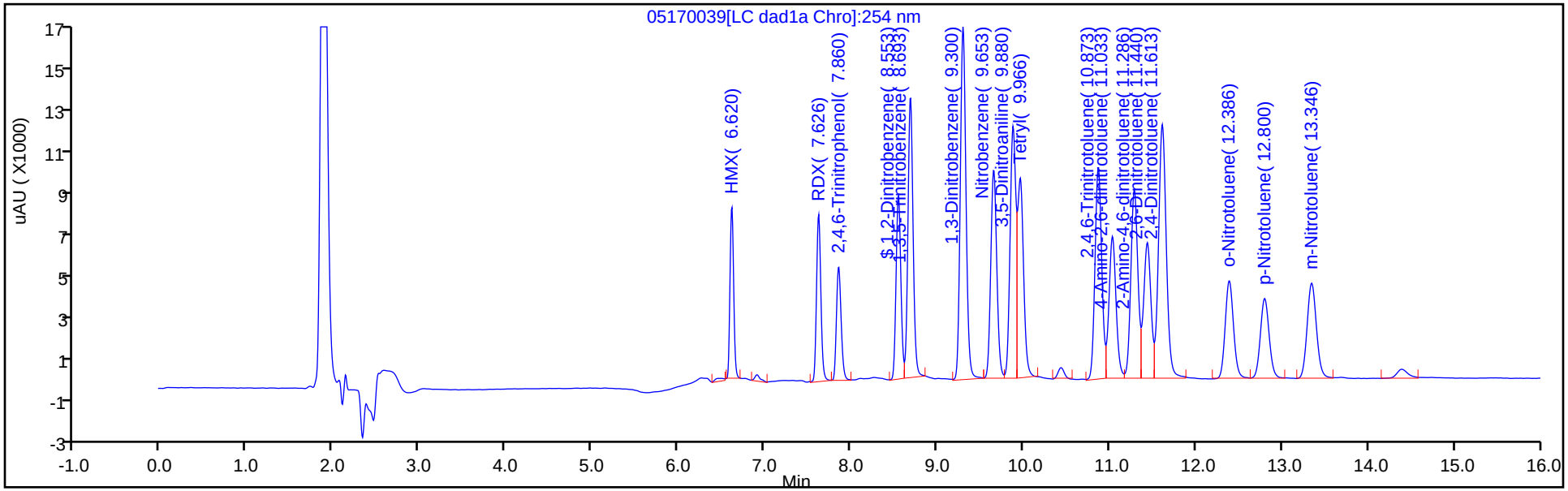
Report Date: 18-May-2024 10:51:45 Chrom Revision: 2.3 14-May-2024 14:23:08

Eurofins Denver

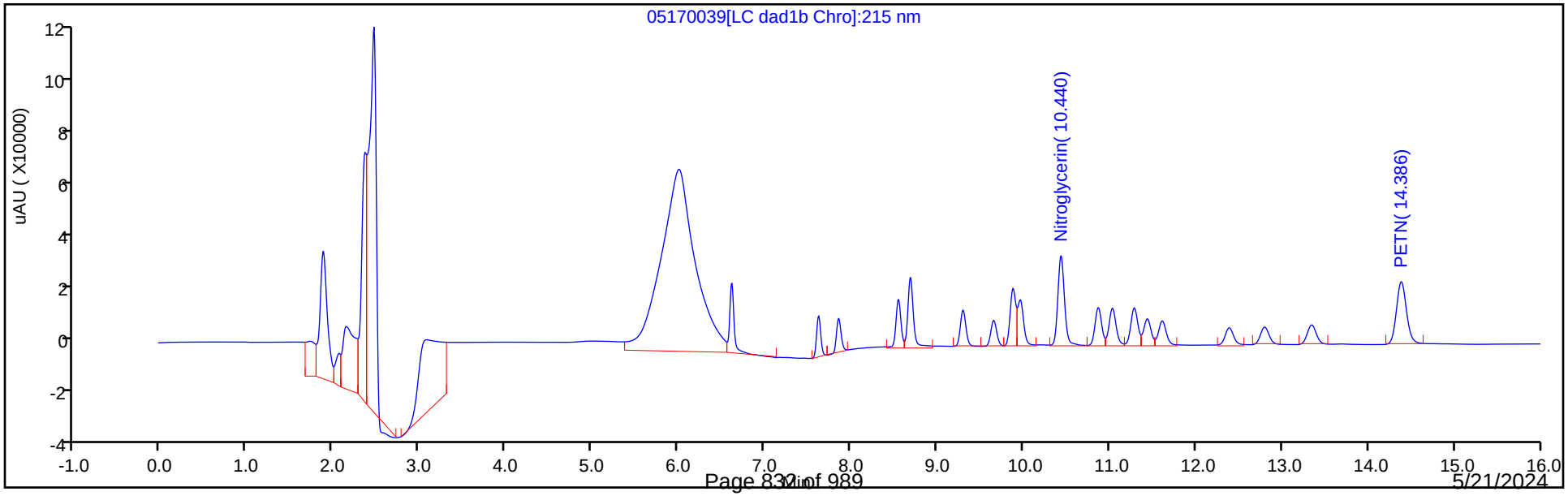
Data File: \\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170039.d

Injection Date:	18-May-2024 01:43:21	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	39
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Manual Integration/User Assign Peak Report

Eurofins Denver

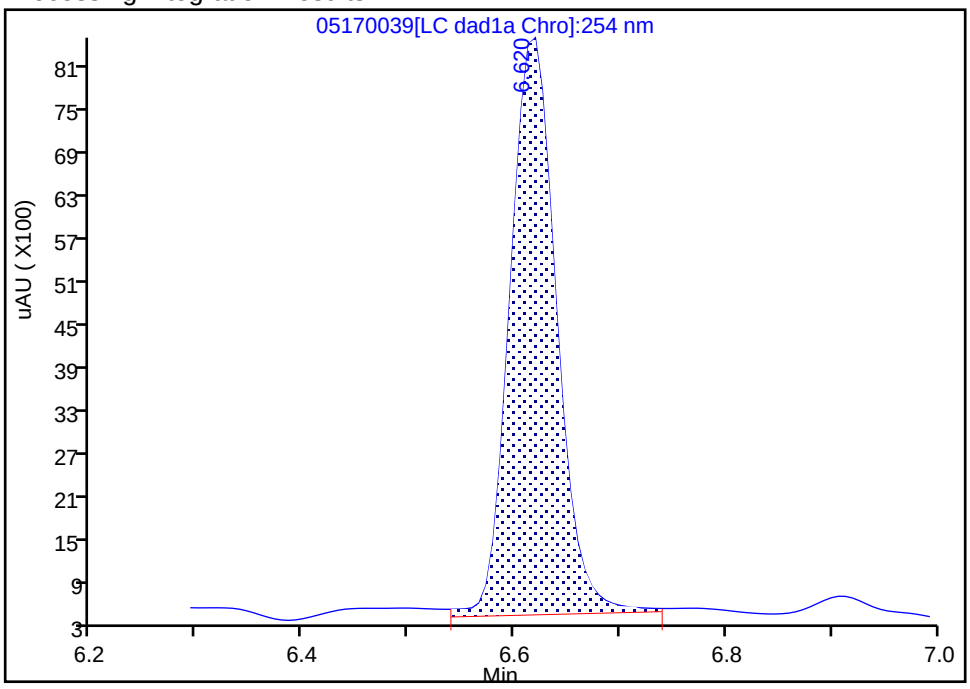
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170039.d				
Injection Date:	18-May-2024 01:43:21	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	39
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

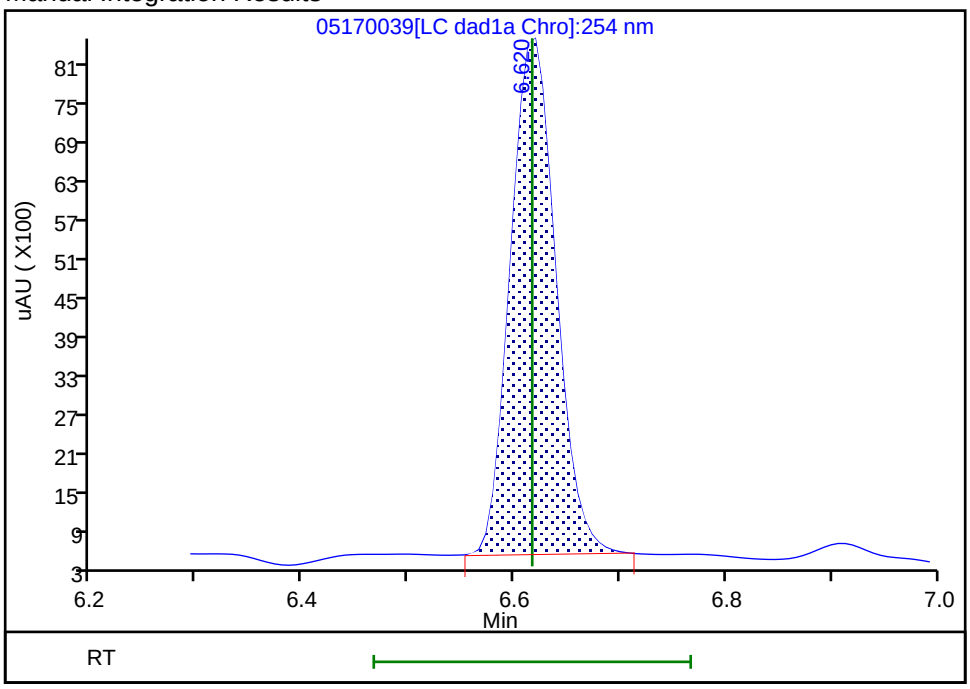
Processing Integration Results

RT: 6.62
Area: 24864
Amount: 0.260237
Amount Units: ug/mL



Manual Integration Results

RT: 6.62
Area: 23747
Amount: 0.248546
Amount Units: ug/mL



Reviewer: LV5D, 18-May-2024 10:33:28 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653871/50 | Calibration Date: 05/18/2024 05:55

Instrument ID: CHHPLC_X3 | Calib Start Date: 04/17/2024 20:37

GC Column: UltraCarb5uODS ID: 4.60(mm) | Calib End Date: 04/17/2024 23:41

Lab File ID: 05170050.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	95544	95468		250	250	-0.0	20.0
RDX	Ave	110767	109284		247	250	-1.3	20.0
Picric acid	Ave	79326	81408		257	250	2.6	20.0
1,3,5-Trinitrobenzene	Ave	222853	219352		246	250	-1.6	20.0
1,3-Dinitrobenzene	Ave	299436	304060		254	250	1.5	20.0
Nitrobenzene	Ave	196329	187436		239	250	-4.5	20.0
3,5-Dinitroaniline	Lin2		217196		247	250	-1.3	20.0
Tetryl	Ave	181588	182064		251	250	0.3	20.0
Nitroglycerin	Ave	66464	69011		2600	2500	3.8	20.0
2,4,6-Trinitrotoluene	Ave	215192	216348		251	250	0.5	20.0
4-Amino-2,6-dinitrotoluene	Ave	149948	152956		255	250	2.0	20.0
2-Amino-4,6-dinitrotoluene	Ave	199809	203924		255	250	2.1	20.0
2,6-Dinitrotoluene	Ave	146914	147032		250	250	0.0	20.0
2,4-Dinitrotoluene	Ave	291844	300296		257	250	2.9	20.0
2-Nitrotoluene	Ave	129305	122164		236	250	-5.5	20.0
4-Nitrotoluene	Ave	112799	107096		237	250	-5.1	20.0
3-Nitrotoluene	Ave	144063	133688		232	250	-7.2	20.0
PETN	Ave	71937	72834		2530	2500	1.2	20.0
1,2-Dinitrobenzene	Lin2		133120		252	250	0.8	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653871/50 Calibration Date: 05/18/2024 05:55

Instrument ID: CHHPLC_X3 Calib Start Date: 04/17/2024 20:37

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 04/17/2024 23:41

Lab File ID: 05170050.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.61	6.47	6.77
RDX	7.63	7.48	7.78
Picric acid	7.86	7.71	8.01
1,3,5-Trinitrobenzene	8.69	8.55	8.85
1,3-Dinitrobenzene	9.31	9.16	9.46
Nitrobenzene	9.66	9.52	9.82
3,5-Dinitroaniline	9.89	9.74	10.04
Tetryl	9.97	9.83	10.13
Nitroglycerin	10.44	10.31	10.61
2,4,6-Trinitrotoluene	10.87	10.78	10.98
4-Amino-2,6-dinitrotoluene	11.03	10.94	11.14
2-Amino-4,6-dinitrotoluene	11.29	11.20	11.40
2,6-Dinitrotoluene	11.44	11.35	11.55
2,4-Dinitrotoluene	11.61	11.52	11.72
2-Nitrotoluene	12.39	12.26	12.56
4-Nitrotoluene	12.81	12.67	12.97
3-Nitrotoluene	13.35	13.22	13.52
PETN	14.39	14.29	14.59
1,2-Dinitrobenzene	8.55	8.41	8.71

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\05170050.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 18-May-2024 05:55:45 ALS Bottle#: 7 Worklist Smp#: 50
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub26

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-May-2024 10:51:53 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1674

First Level Reviewer: LV5D Date: 18-May-2024 10:47:53

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
4 HMX	1	6.613	6.617	-0.004	23867	0.2500	0.2498	
8 RDX	1	7.626	7.630	-0.004	27321	0.2500	0.2467	
9 2,4,6-Trinitrophenol	1	7.860	7.863	-0.003	20352	0.2500	0.2566	
$ 10 1,2-Dinitrobenzene	1	8.553	8.557	-0.004	33280	0.2500	0.2521	
11 1,3,5-Trinitrobenzene	1	8.693	8.697	-0.004	54838	0.2500	0.2461	
12 1,3-Dinitrobenzene	1	9.306	9.310	-0.004	76015	0.2500	0.2539	
13 Nitrobenzene	1	9.659	9.670	-0.011	46859	0.2500	0.2387	
14 3,5-Dinitroaniline	1	9.886	9.890	-0.004	54299	0.2500	0.2468	
15 Tetryl	1	9.973	9.983	-0.010	45516	0.2500	0.2507	
16 Nitroglycerin	2	10.439	10.457	-0.018	172528	2.50	2.60	
17 2,4,6-Trinitrotoluene	1	10.873	10.883	-0.010	54087	0.2500	0.2513	
18 4-Amino-2,6-dinitrotoluene	1	11.033	11.043	-0.010	38239	0.2500	0.2550	
19 2-Amino-4,6-dinitrotoluene	1	11.293	11.297	-0.004	50981	0.2500	0.2551	
20 2,6-Dinitrotoluene	1	11.439	11.450	-0.011	36758	0.2500	0.2502	
21 2,4-Dinitrotoluene	1	11.613	11.623	-0.010	75074	0.2500	0.2572	
22 o-Nitrotoluene	1	12.393	12.410	-0.017	30541	0.2500	0.2362	
23 p-Nitrotoluene	1	12.806	12.823	-0.017	26774	0.2500	0.2374	
24 m-Nitrotoluene	1	13.346	13.370	-0.024	33422	0.2500	0.2320	
25 PETN	2	14.393	14.437	-0.044	182084	2.50	2.53	

QC Flag Legend
Processing Flags

Reagents:
8330IntermStk_00081 Amount Added: 25.00 Units: uL

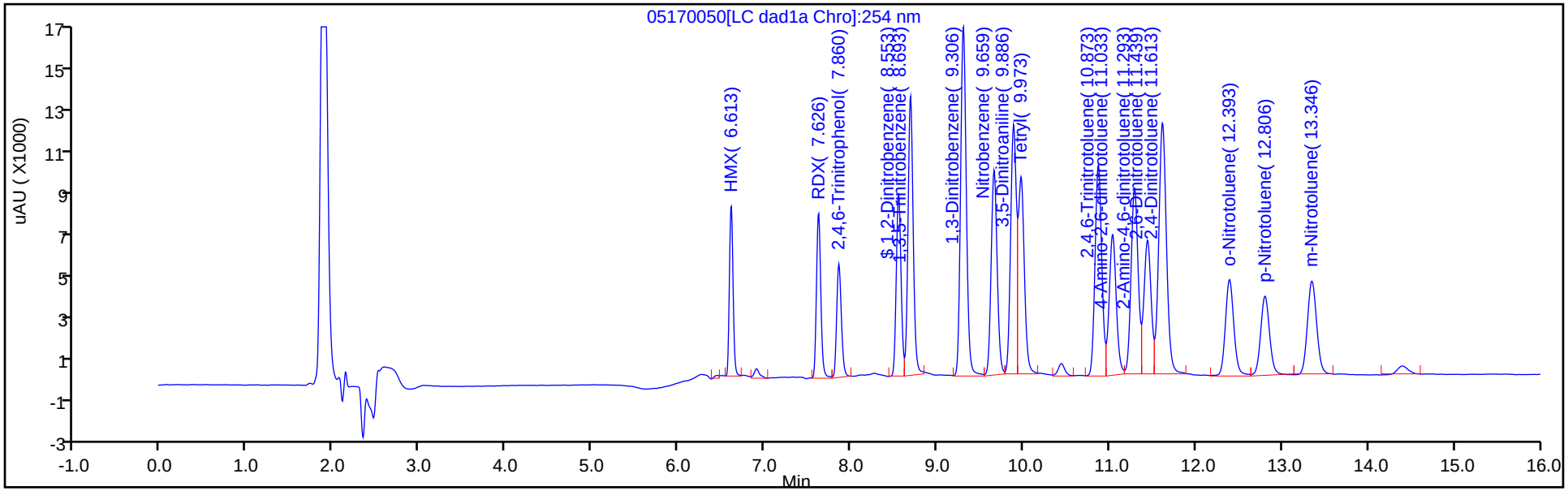
Report Date: 18-May-2024 10:51:53 Chrom Revision: 2.3 14-May-2024 14:23:08

Eurofins Denver

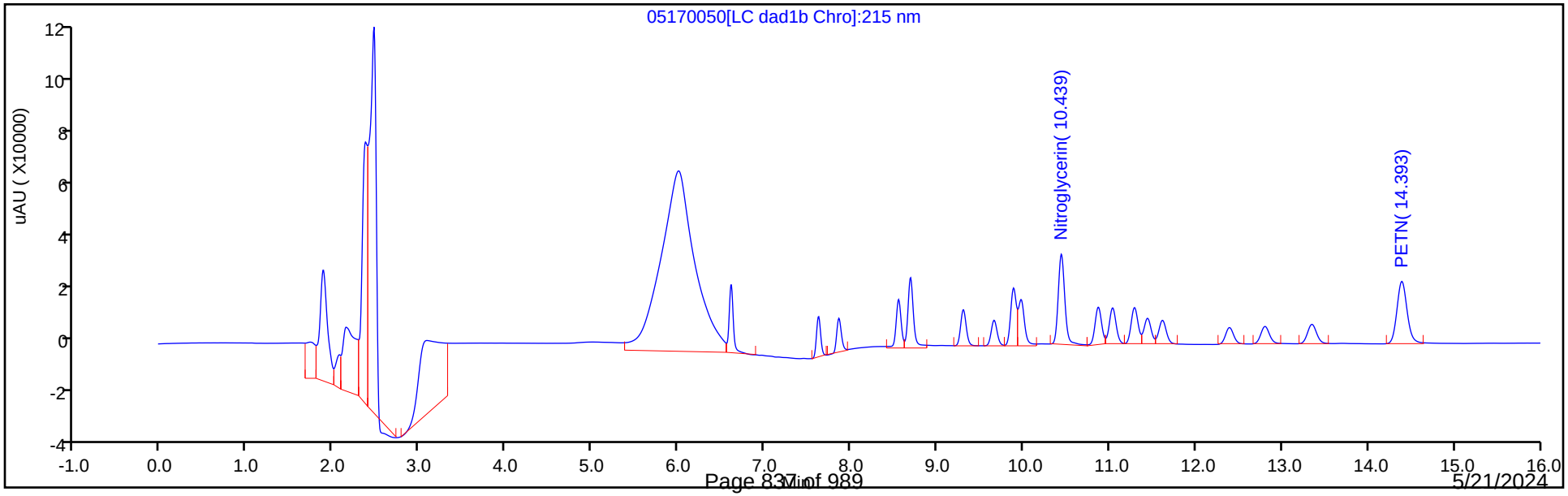
Data File: \\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170050.d

Injection Date:	18-May-2024 05:55:45	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	50
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653871/56 | Calibration Date: 05/18/2024 08:13

Instrument ID: CHHPLC_X3 | Calib Start Date: 04/17/2024 20:37

GC Column: UltraCarb5uODS ID: 4.60(mm) | Calib End Date: 04/17/2024 23:41

Lab File ID: 05170056.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	95544	94292		247	250	-1.3	20.0
RDX	Ave	110767	108432		245	250	-2.1	20.0
Picric acid	Ave	79326	80020		252	250	0.9	20.0
1,3,5-Trinitrobenzene	Ave	222853	220496		247	250	-1.1	20.0
1,3-Dinitrobenzene	Ave	299436	301932		252	250	0.8	20.0
Nitrobenzene	Ave	196329	185156		236	250	-5.7	20.0
3,5-Dinitroaniline	Lin2		227768		259	250	3.5	20.0
Tetryl	Ave	181588	171452		236	250	-5.6	20.0
Nitroglycerin	Ave	66464	68800		2590	2500	3.5	20.0
2,4,6-Trinitrotoluene	Ave	215192	215296		250	250	0.0	20.0
4-Amino-2,6-dinitrotoluene	Ave	149948	153480		256	250	2.4	20.0
2-Amino-4,6-dinitrotoluene	Ave	199809	202192		253	250	1.2	20.0
2,6-Dinitrotoluene	Ave	146914	149620		255	250	1.8	20.0
2,4-Dinitrotoluene	Ave	291844	297772		255	250	2.0	20.0
2-Nitrotoluene	Ave	129305	120800		234	250	-6.6	20.0
4-Nitrotoluene	Ave	112799	104992		233	250	-6.9	20.0
3-Nitrotoluene	Ave	144063	132812		230	250	-7.8	20.0
PETN	Ave	71937	72920		2530	2500	1.4	20.0
1,2-Dinitrobenzene	Lin2		133456		253	250	1.1	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653871/56 Calibration Date: 05/18/2024 08:13

Instrument ID: CHHPLC_X3 Calib Start Date: 04/17/2024 20:37

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 04/17/2024 23:41

Lab File ID: 05170056.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.61	6.47	6.77
RDX	7.63	7.48	7.78
Picric acid	7.86	7.71	8.01
1,3,5-Trinitrobenzene	8.69	8.55	8.85
1,3-Dinitrobenzene	9.30	9.16	9.46
Nitrobenzene	9.65	9.52	9.82
3,5-Dinitroaniline	9.88	9.74	10.04
Tetryl	9.97	9.83	10.13
Nitroglycerin	10.44	10.31	10.61
2,4,6-Trinitrotoluene	10.87	10.78	10.98
4-Amino-2,6-dinitrotoluene	11.03	10.94	11.14
2-Amino-4,6-dinitrotoluene	11.29	11.20	11.40
2,6-Dinitrotoluene	11.44	11.35	11.55
2,4-Dinitrotoluene	11.61	11.52	11.72
2-Nitrotoluene	12.39	12.26	12.56
4-Nitrotoluene	12.80	12.67	12.97
3-Nitrotoluene	13.34	13.22	13.52
PETN	14.39	14.29	14.59
1,2-Dinitrobenzene	8.55	8.41	8.71

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\05170056.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 18-May-2024 08:13:32 ALS Bottle#: 7 Worklist Smp#: 56
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub26

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-May-2024 10:51:59 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1674

First Level Reviewer: LV5D Date: 18-May-2024 10:51:29

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
4 HMX	1	6.612	6.617	-0.005	23573	0.2500	0.2467	M
8 RDX	1	7.625	7.630	-0.005	27108	0.2500	0.2447	
9 2,4,6-Trinitrophenol	1	7.859	7.863	-0.004	20005	0.2500	0.2522	
$ 10 1,2-Dinitrobenzene	1	8.552	8.557	-0.005	33364	0.2500	0.2528	
11 1,3,5-Trinitrobenzene	1	8.692	8.697	-0.005	55124	0.2500	0.2474	
12 1,3-Dinitrobenzene	1	9.298	9.310	-0.012	75483	0.2500	0.2521	
13 Nitrobenzene	1	9.652	9.670	-0.018	46289	0.2500	0.2358	
14 3,5-Dinitroaniline	1	9.878	9.890	-0.012	56942	0.2500	0.2587	
15 Tetryl	1	9.965	9.983	-0.018	42863	0.2500	0.2360	
16 Nitroglycerin	2	10.438	10.457	-0.019	172001	2.50	2.59	
17 2,4,6-Trinitrotoluene	1	10.865	10.883	-0.018	53824	0.2500	0.2501	
18 4-Amino-2,6-dinitrotoluene	1	11.032	11.043	-0.011	38370	0.2500	0.2559	
19 2-Amino-4,6-dinitrotoluene	1	11.285	11.297	-0.012	50548	0.2500	0.2530	
20 2,6-Dinitrotoluene	1	11.438	11.450	-0.012	37405	0.2500	0.2546	
21 2,4-Dinitrotoluene	1	11.612	11.623	-0.011	74443	0.2500	0.2551	
22 o-Nitrotoluene	1	12.385	12.410	-0.025	30200	0.2500	0.2336	
23 p-Nitrotoluene	1	12.798	12.823	-0.025	26248	0.2500	0.2327	
24 m-Nitrotoluene	1	13.338	13.370	-0.032	33203	0.2500	0.2305	
25 PETN	2	14.385	14.437	-0.052	182299	2.50	2.53	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00081 Amount Added: 25.00 Units: uL

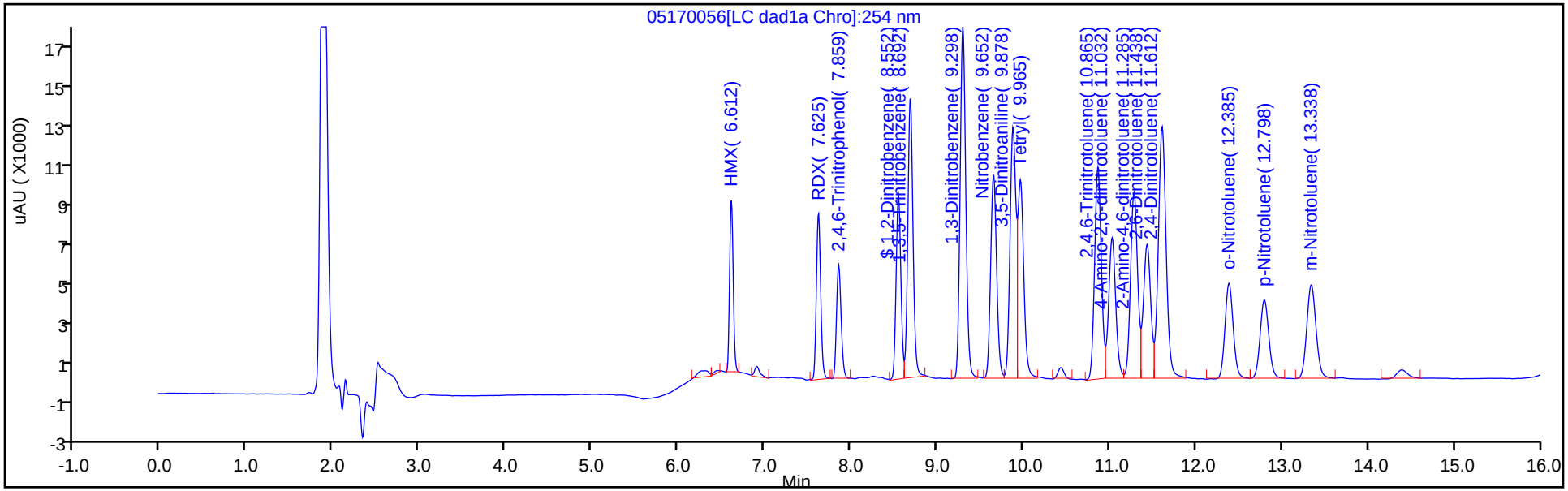
Report Date: 18-May-2024 10:51:59 Chrom Revision: 2.3 14-May-2024 14:23:08

Eurofins Denver

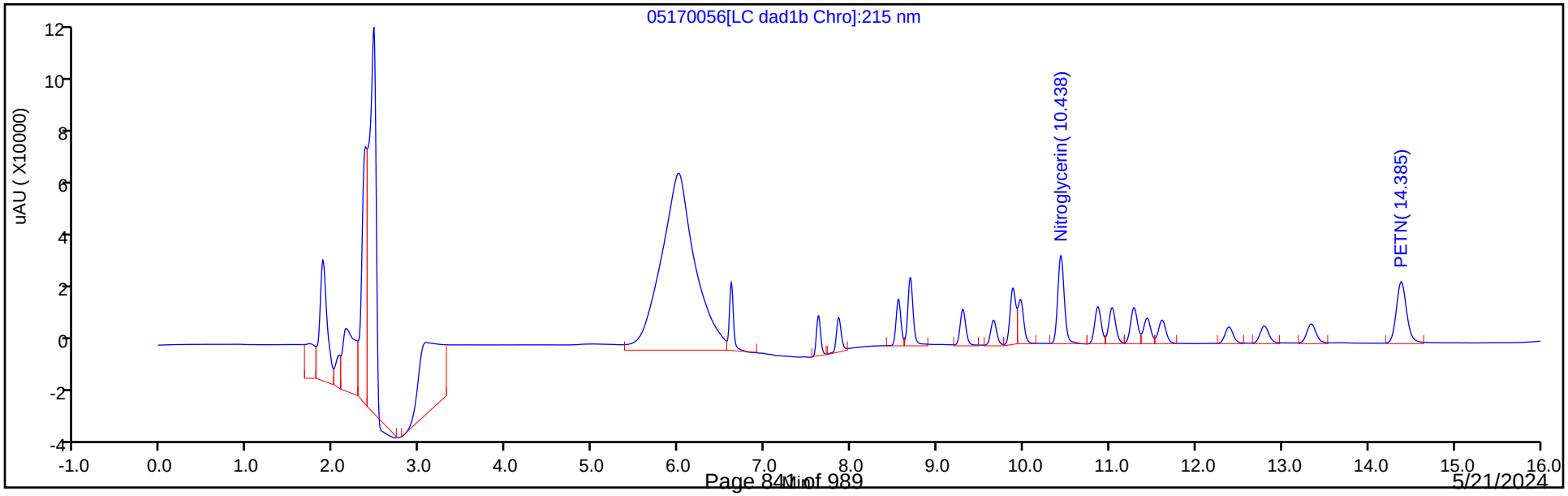
Data File: \\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170056.d

Injection Date:	18-May-2024 08:13:32	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	56
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

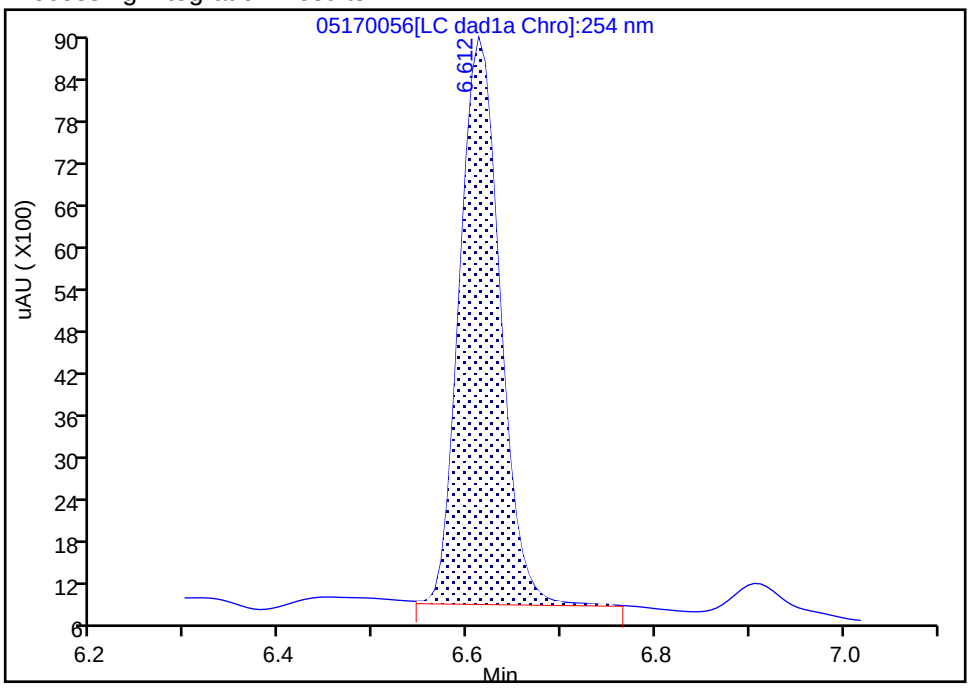
Data File: \\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170056.d
Injection Date: 18-May-2024 08:13:32 Instrument ID: CHHPLC_X3
Lims ID: CCV INT
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 56
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

4 HMX, CAS: 2691-41-0

Signal: 1

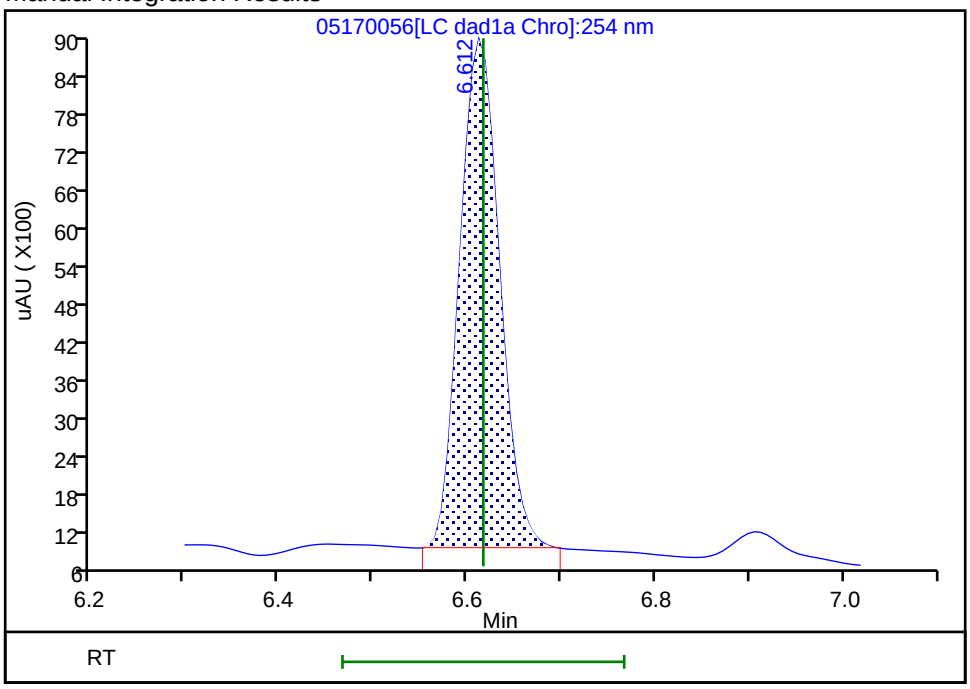
Processing Integration Results

RT: 6.61
Area: 24012
Amount: 0.251320
Amount Units: ug/mL



Manual Integration Results

RT: 6.61
Area: 23573
Amount: 0.246725
Amount Units: ug/mL



Reviewer: LV5D, 18-May-2024 10:51:25 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Lab Sample ID: ICV 280-647408/19 | Calibration Date: 03/28/2024 01:13

Instrument ID: CHHPLC_X5 | Calib Start Date: 03/27/2024 19:58

GC Column: Luna-phenylhex ID: 4.60(mm) | Calib End Date: 03/28/2024 00:38

Lab File ID: 03270019.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	191683	167164		436	500	-12.8	20.0
Picric acid	Ave	150420	166198		552	500	10.5	20.0
RDX	Ave	213594	203324		476	500	-4.8	20.0
Nitrobenzene	Ave	377742	392296		519	500	3.9	20.0
3,5-Dinitroaniline	Lin2		459904		522	500	4.3	20.0
1,3-Dinitrobenzene	Ave	598366	638906		534	500	6.8	20.0
Nitroglycerin	Ave	135390	138980		5130	5000	2.7	20.0
2-Nitrotoluene	Ave	247354	249362		504	500	0.8	20.0
4-Nitrotoluene	Lin2		225116		516	500	3.3	20.0
4-Amino-2,6-dinitrotoluene	Lin2		292534		523	500	4.7	20.0
3-Nitrotoluene	Lin2		281860		517	500	3.4	20.0
2-Amino-4,6-dinitrotoluene	Lin2		407870		509	500	1.8	20.0
1,3,5-Trinitrobenzene	Ave	429634	451924		526	500	5.2	20.0
2,6-Dinitrotoluene	Ave	272831	283050		519	500	3.7	20.0
2,4-Dinitrotoluene	Ave	546523	560170		512	500	2.5	20.0
Tetryl	Ave	336239	335112		498	500	-0.3	20.0
2,4,6-Trinitrotoluene	Ave	416462	413246		496	500	-0.8	20.0
PETN	Lin2		137527		5290	5000	5.9	20.0
1,2-Dinitrobenzene	Ave	264153	251008		475	500	-5.0	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab Sample ID: ICV 280-647408/19 Calibration Date: 03/28/2024 01:13

Instrument ID: CHHPLC_X5 Calib Start Date: 03/27/2024 19:58

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 03/28/2024 00:38

Lab File ID: 03270019.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.78	6.64	6.94
Picric acid	7.89	7.78	8.08
RDX	8.87	8.73	9.03
Nitrobenzene	11.55	11.40	11.70
3,5-Dinitroaniline	14.39	14.24	14.54
1,3-Dinitrobenzene	14.81	14.67	14.97
Nitroglycerin	15.07	14.92	15.22
2-Nitrotoluene	15.75	15.60	15.90
4-Nitrotoluene	16.01	15.87	16.17
4-Amino-2,6-dinitrotoluene	16.50	16.36	16.66
3-Nitrotoluene	16.87	16.73	17.03
2-Amino-4,6-dinitrotoluene	17.38	17.24	17.54
1,3,5-Trinitrobenzene	17.80	17.66	17.96
2,6-Dinitrotoluene	18.81	18.68	18.98
2,4-Dinitrotoluene	19.30	19.16	19.46
Tetryl	22.73	22.59	22.89
2,4,6-Trinitrotoluene	23.69	23.56	23.86
PETN	24.67	24.54	24.84
1,2-Dinitrobenzene	12.57	12.43	12.73

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270019.D
Lims ID: ICV INT
Client ID:
Sample Type: ICV
Inject. Date: 28-Mar-2024 01:13:27 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: ICV INT
Operator ID: JZ/JG Instrument ID: CHHPLC_X5
Sublist:

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 28-Mar-2024 14:21:53 Calib Date: 28-Mar-2024 00:38:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270018.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1687

First Level Reviewer: LV5D Date: 28-Mar-2024 11:45:09

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	5 HMX	1	6.781	6.787	-0.006	83582	0.5000	0.4360	
	7 2,4,6-Trinitrophenol	1	7.894	7.934	-0.040	83099	0.5000	0.5524	
	8 RDX	1	8.867	8.881	-0.014	101662	0.5000	0.4760	
	9 Nitrobenzene	1	11.547	11.554	-0.007	196148	0.5000	0.5193	
$	10 1,2-Dinitrobenzene	1	12.574	12.581	-0.007	125504	0.5000	0.4751	
	11 3,5-Dinitroaniline	1	14.387	14.394	-0.007	229952	0.5000	0.5216	
	12 1,3-Dinitrobenzene	1	14.814	14.821	-0.007	319453	0.5000	0.5339	
	13 Nitroglycerin	2	15.074	15.074	0.000	694898	5.00	5.13	M
	14 o-Nitrotoluene	1	15.747	15.754	-0.007	124681	0.5000	0.5041	
	16 p-Nitrotoluene	1	16.007	16.021	-0.014	112558	0.5000	0.5163	
	17 4-Amino-2,6-dinitrotoluene	1	16.501	16.514	-0.013	146267	0.5000	0.5233	
	18 m-Nitrotoluene	1	16.867	16.881	-0.014	140930	0.5000	0.5171	
	19 2-Amino-4,6-dinitrotoluene	1	17.381	17.394	-0.013	203935	0.5000	0.5091	
	20 1,3,5-Trinitrobenzene	1	17.801	17.807	-0.006	225962	0.5000	0.5259	
	21 2,6-Dinitrotoluene	1	18.814	18.827	-0.013	141525	0.5000	0.5187	
	22 2,4-Dinitrotoluene	1	19.301	19.314	-0.013	280085	0.5000	0.5125	
	23 Tetryl	1	22.727	22.741	-0.014	167556	0.5000	0.4983	
	24 2,4,6-Trinitrotoluene	1	23.694	23.707	-0.013	206623	0.5000	0.4961	
	25 PETN	2	24.667	24.687	-0.020	687636	5.00	5.29	M
	26 Ammonium Picrate	1		0.000			ND	ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

Reagents:

8330Surrogate_00154	Amount Added:	50.00	Units: uL
8330 LCS_00134	Amount Added:	50.00	Units: uL

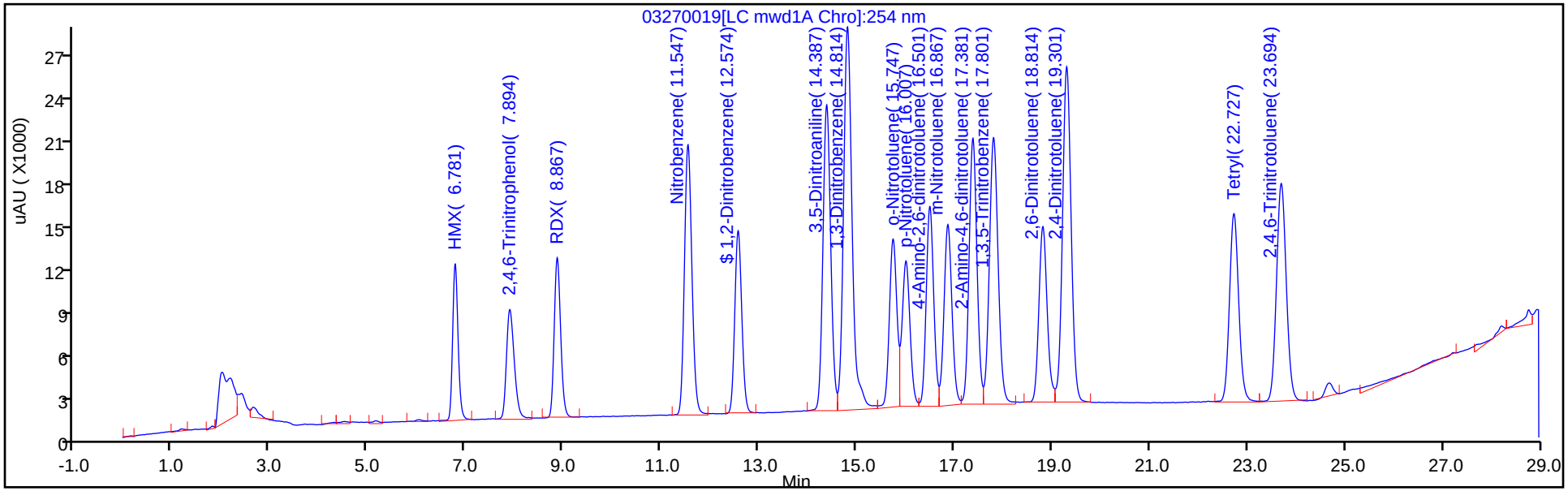
Report Date: 28-Mar-2024 14:21:55 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Denver

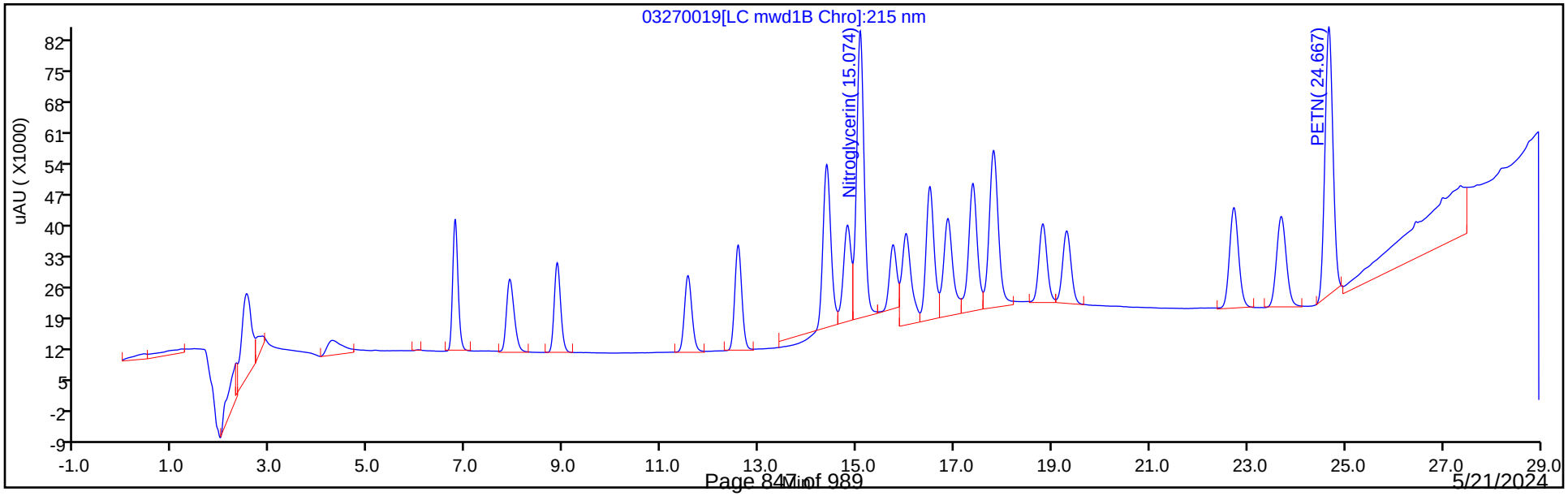
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270019.D

Injection Date:	28-Mar-2024 01:13:27	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	ICV INT			Worklist Smp#:	19
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

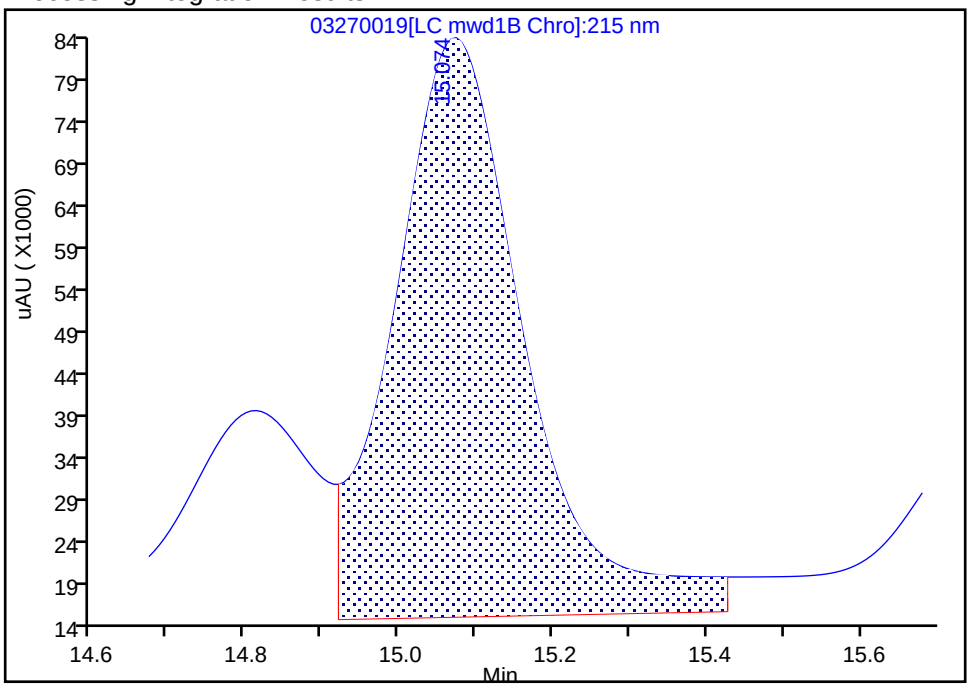
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270019.D
Injection Date: 28-Mar-2024 01:13:27 Instrument ID: CHHPLC_X5
Lims ID: ICV INT
Client ID:
Operator ID: JZ/JG ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X5_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC mwd1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

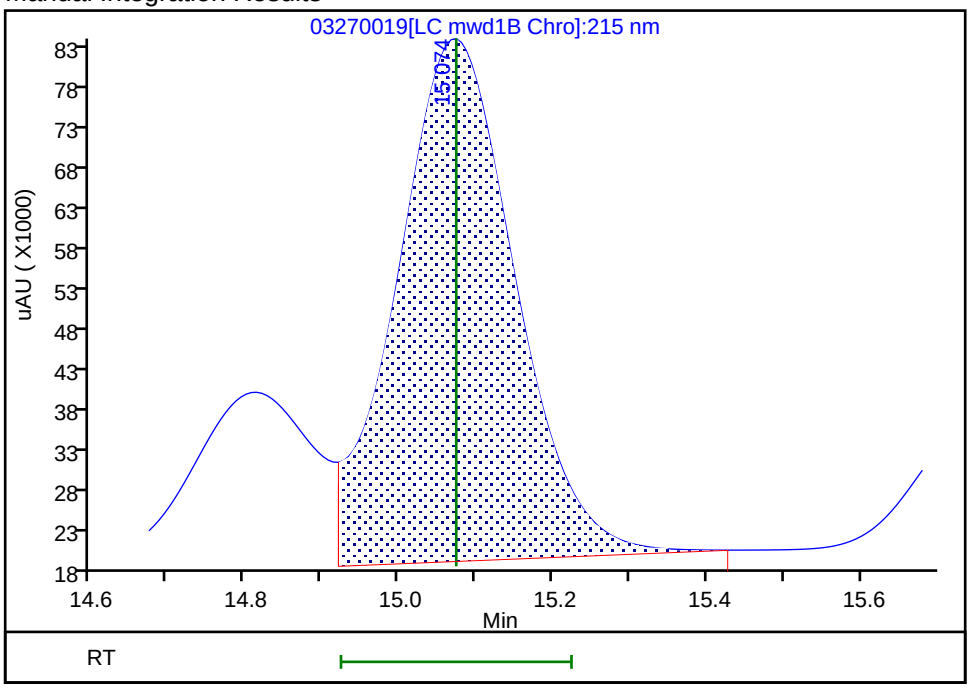
Processing Integration Results

RT: 15.07
Area: 805189
Amount: 5.947189
Amount Units: ug/ml



Manual Integration Results

RT: 15.07
Area: 694898
Amount: 5.132571
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:41:18 -06:00:00 (UTC)
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

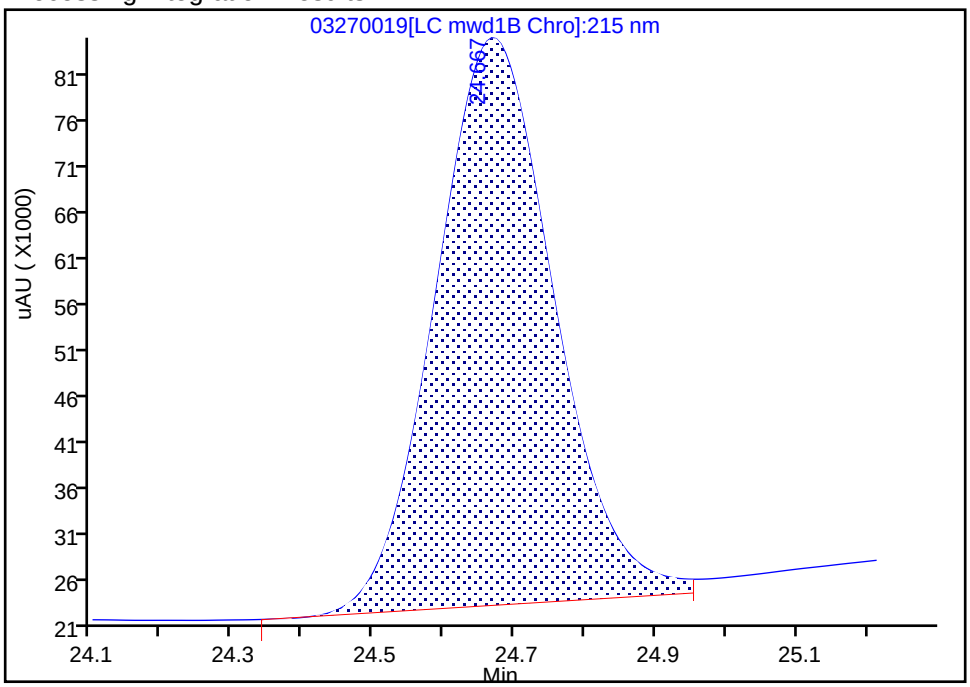
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270019.D				
Injection Date:	28-Mar-2024 01:13:27	Instrument ID:	CHHPLC_X5		
Lims ID:	ICV INT				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1B, 215 nm		

25 PETN, CAS: 78-11-5

Signal: 1

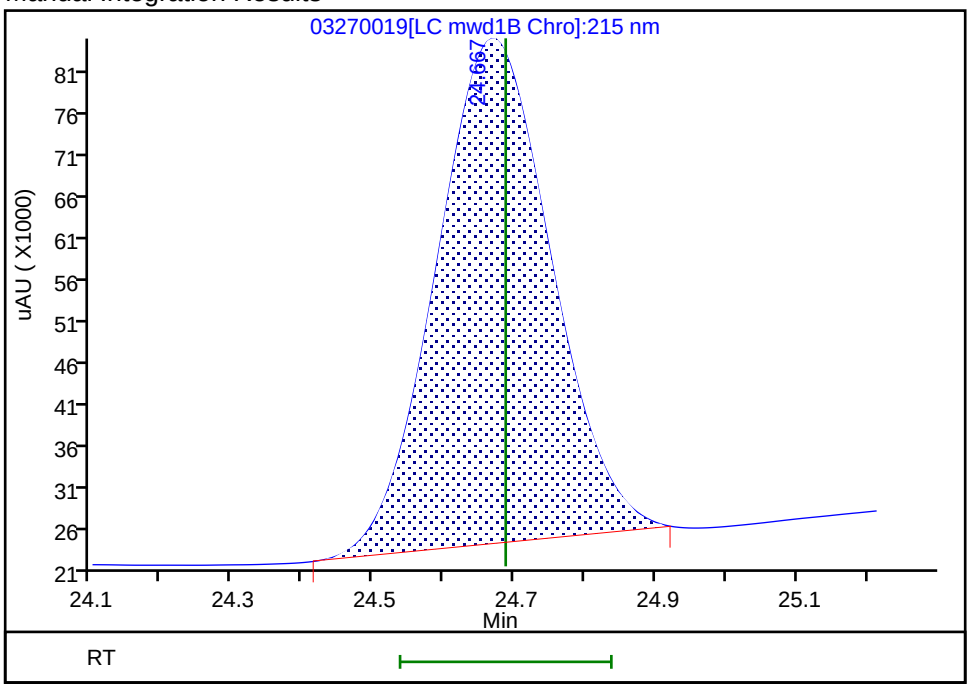
Processing Integration Results

RT: 24.67
Area: 722782
Amount: 5.561586
Amount Units: ug/ml



Manual Integration Results

RT: 24.67
Area: 687636
Amount: 5.292785
Amount Units: ug/ml



Reviewer: LV5D, 28-Mar-2024 11:43:32 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653069/7 | Calibration Date: 05/11/2024 17:27

Instrument ID: CHHPLC_X5 | Calib Start Date: 03/27/2024 19:58

GC Column: Luna-phenylhex ID: 4.60(mm) | Calib End Date: 03/28/2024 00:38

Lab File ID: 05110007.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	191683	178276		233	250	-7.0	20.0
Picric acid	Ave	150420	154404		257	250	2.6	20.0
RDX	Ave	213594	209012		245	250	-2.1	20.0
Nitrobenzene	Ave	377742	380984		252	250	0.9	20.0
3,5-Dinitroaniline	Lin2		446724		253	250	1.3	20.0
1,3-Dinitrobenzene	Ave	598366	619124		259	250	3.5	20.0
Nitroglycerin	Ave	135390	138462		2560	2500	2.3	20.0
2-Nitrotoluene	Ave	247354	247420		250	250	0.0	20.0
4-Nitrotoluene	Lin2		221980		252	250	1.0	20.0
4-Amino-2,6-dinitrotoluene	Lin2		281380		250	250	0.0	20.0
3-Nitrotoluene	Lin2		280900		254	250	1.8	20.0
2-Amino-4,6-dinitrotoluene	Lin2		401836		250	250	-0.2	20.0
1,3,5-Trinitrobenzene	Ave	429634	417040		243	250	-2.9	20.0
2,6-Dinitrotoluene	Ave	272831	274840		252	250	0.7	20.0
2,4-Dinitrotoluene	Ave	546523	548048		251	250	0.3	20.0
Tetryl	Ave	336239	309632		230	250	-7.9	20.0
2,4,6-Trinitrotoluene	Ave	416462	400708		241	250	-3.8	20.0
PETN	Lin2		124218		2410	2500	-3.7	20.0
1,2-Dinitrobenzene	Ave	264153	260764		247	250	-1.3	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653069/7 Calibration Date: 05/11/2024 17:27

Instrument ID: CHHPLC_X5 Calib Start Date: 03/27/2024 19:58

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 03/28/2024 00:38

Lab File ID: 05110007.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.63	6.48	6.78
Picric acid	8.32	8.17	8.47
RDX	8.66	8.51	8.81
Nitrobenzene	11.32	11.17	11.47
3,5-Dinitroaniline	14.07	13.92	14.22
1,3-Dinitrobenzene	14.52	14.37	14.67
Nitroglycerin	14.75	14.60	14.90
2-Nitrotoluene	15.43	15.28	15.58
4-Nitrotoluene	15.69	15.54	15.84
4-Amino-2,6-dinitrotoluene	16.14	15.99	16.29
3-Nitrotoluene	16.54	16.39	16.69
2-Amino-4,6-dinitrotoluene	17.02	16.87	17.17
1,3,5-Trinitrobenzene	17.46	17.31	17.61
2,6-Dinitrotoluene	18.42	18.27	18.57
2,4-Dinitrotoluene	18.91	18.76	19.06
Tetryl	22.21	22.06	22.36
2,4,6-Trinitrotoluene	23.19	23.04	23.34
PETN	24.16	24.01	24.31
1,2-Dinitrobenzene	12.31	12.16	12.46

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240511-133288.b\05110007.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 11-May-2024 17:27:22 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV
Operator ID: JZ Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub7

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20240511-133288.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 14-May-2024 18:12:33 Calib Date: 28-Mar-2024 05:53:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1620

First Level Reviewer: LV5D Date: 14-May-2024 12:59:49

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 HMX	1	6.631	6.631	0.000	44569	0.2500	0.2325	
7 2,4,6-Trinitrophenol	1	8.317	8.317	0.000	38601	0.2500	0.2566	
8 RDX	1	8.664	8.664	0.000	52253	0.2500	0.2446	
9 Nitrobenzene	1	11.317	11.317	0.000	95246	0.2500	0.2521	
$ 10 1,2-Dinitrobenzene	1	12.311	12.311	0.000	65191	0.2500	0.2468	
11 3,5-Dinitroaniline	1	14.071	14.071	0.000	111681	0.2500	0.2534	
12 1,3-Dinitrobenzene	1	14.517	14.517	0.000	154781	0.2500	0.2587	
13 Nitroglycerin	2	14.751	14.751	0.000	346155	2.50	2.56	M
14 o-Nitrotoluene	1	15.431	15.431	0.000	61855	0.2500	0.2501	
16 p-Nitrotoluene	1	15.691	15.691	0.000	55495	0.2500	0.2524	
17 4-Amino-2,6-dinitrotoluene	1	16.144	16.144	0.000	70345	0.2500	0.2500	
18 m-Nitrotoluene	1	16.544	16.544	0.000	70225	0.2500	0.2544	
19 2-Amino-4,6-dinitrotoluene	1	17.017	17.017	0.000	100459	0.2500	0.2496	
20 1,3,5-Trinitrobenzene	1	17.464	17.464	0.000	104260	0.2500	0.2427	
21 2,6-Dinitrotoluene	1	18.424	18.424	0.000	68710	0.2500	0.2518	
22 2,4-Dinitrotoluene	1	18.911	18.911	0.000	137012	0.2500	0.2507	
23 Tetryl	1	22.211	22.211	0.000	77408	0.2500	0.2302	M
24 2,4,6-Trinitrotoluene	1	23.191	23.191	0.000	100177	0.2500	0.2405	M
25 PETN	2	24.164	24.164	0.000	310545	2.50	2.41	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00080 Amount Added: 25.00 Units: uL

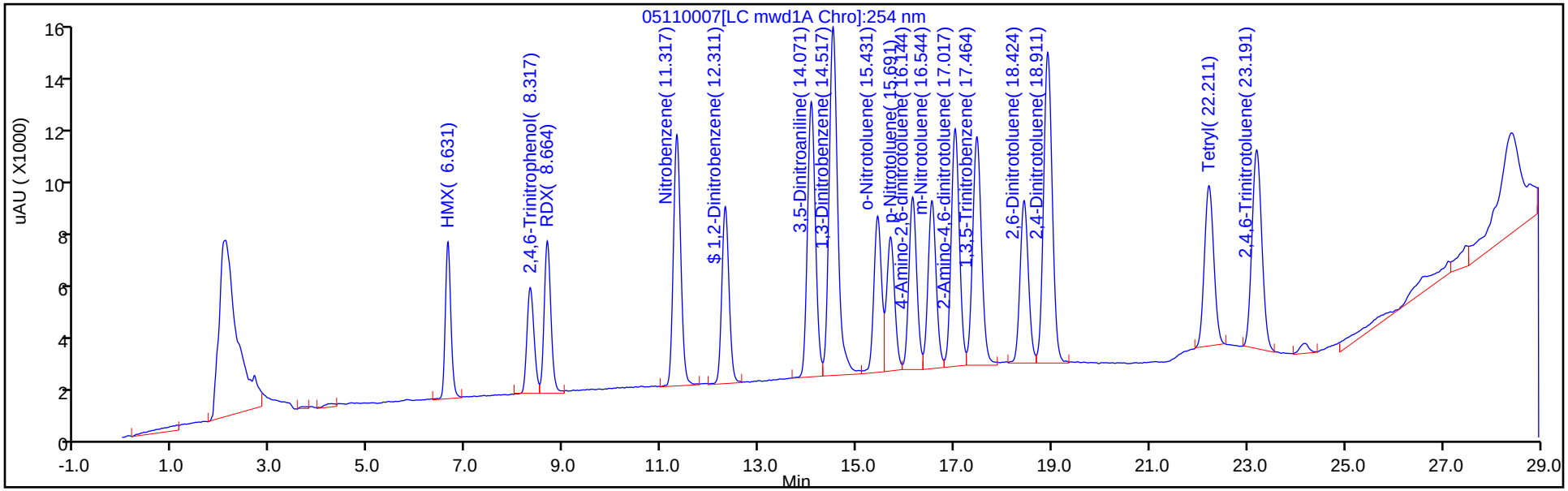
Report Date: 14-May-2024 18:12:33 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

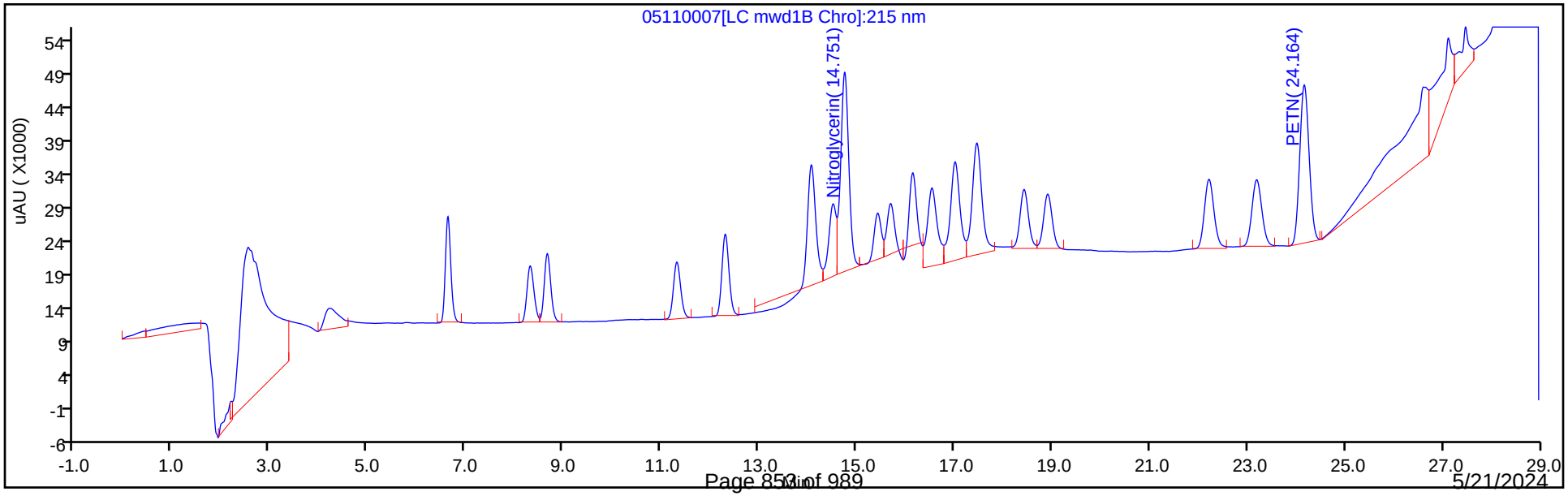
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240511-133288.b\05110007.D

Injection Date:	11-May-2024 17:27:22	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

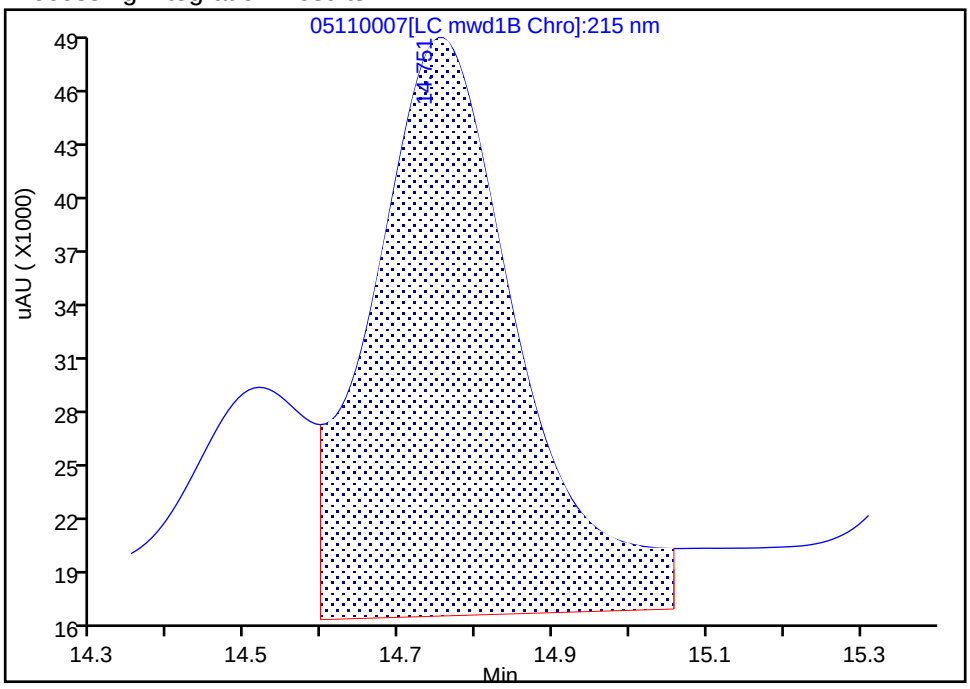
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240511-133288.b\05110007.D				
Injection Date:	11-May-2024 17:27:22	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1B, 215 nm		

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

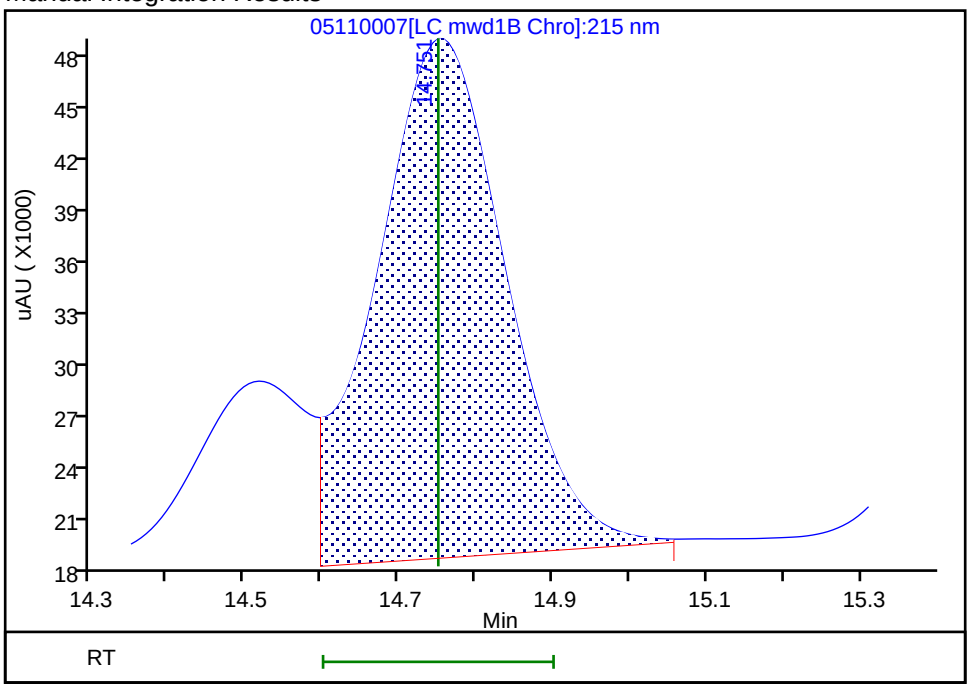
Processing Integration Results

RT: 14.75
Area: 424842
Amount: 3.137917
Amount Units: ug/ml



Manual Integration Results

RT: 14.75
Area: 346155
Amount: 2.556728
Amount Units: ug/ml



Reviewer: LV5D, 14-May-2024 18:06:46 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

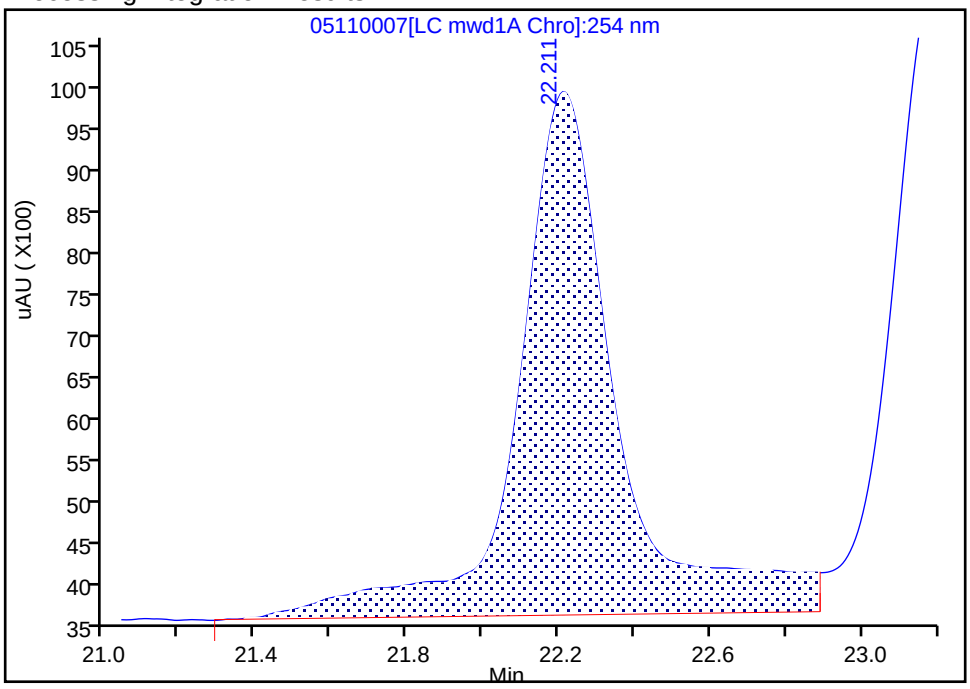
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240511-133288.b\05110007.D				
Injection Date:	11-May-2024 17:27:22	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

23 Tetryl, CAS: 479-45-8

Signal: 1

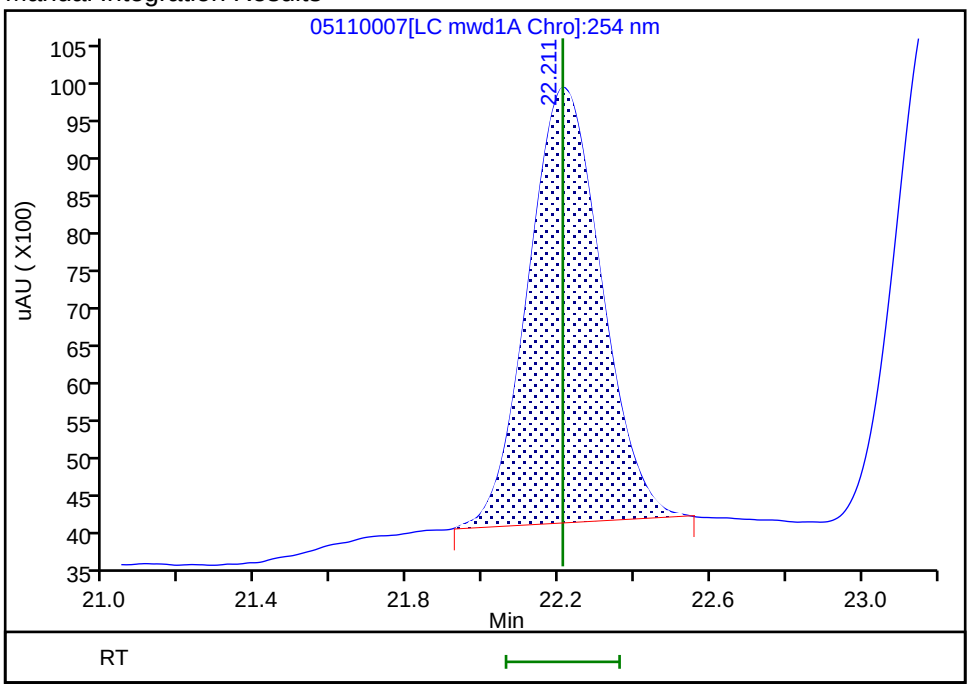
Processing Integration Results

RT: 22.21
Area: 115258
Amount: 0.342786
Amount Units: ug/ml



Manual Integration Results

RT: 22.21
Area: 77408
Amount: 0.230217
Amount Units: ug/ml



Reviewer: LV5D, 14-May-2024 18:06:51 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

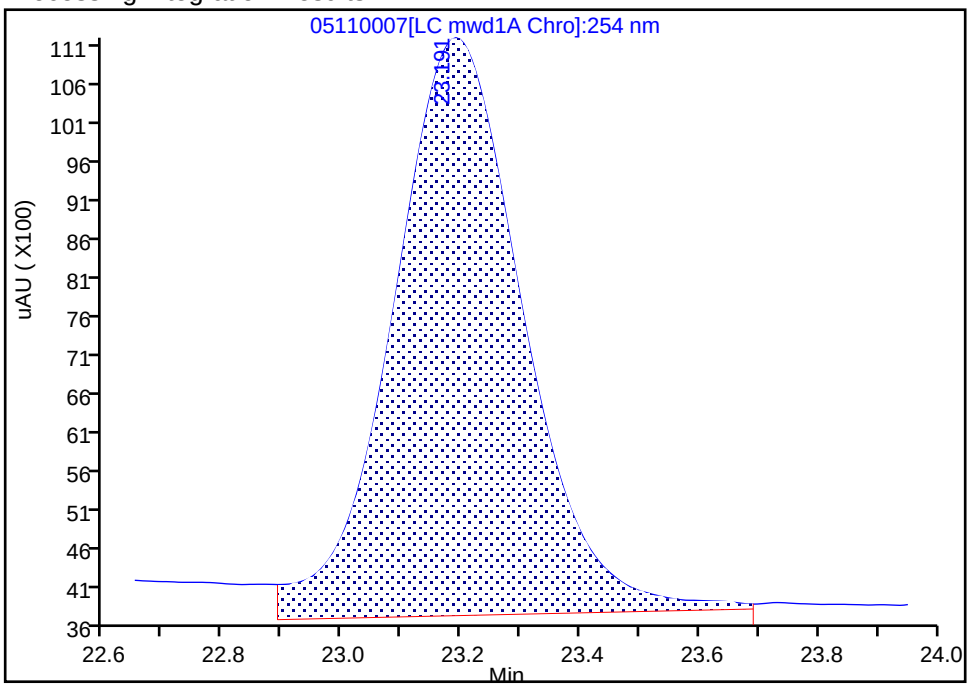
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240511-133288.b\05110007.D				
Injection Date:	11-May-2024 17:27:22	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

24 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

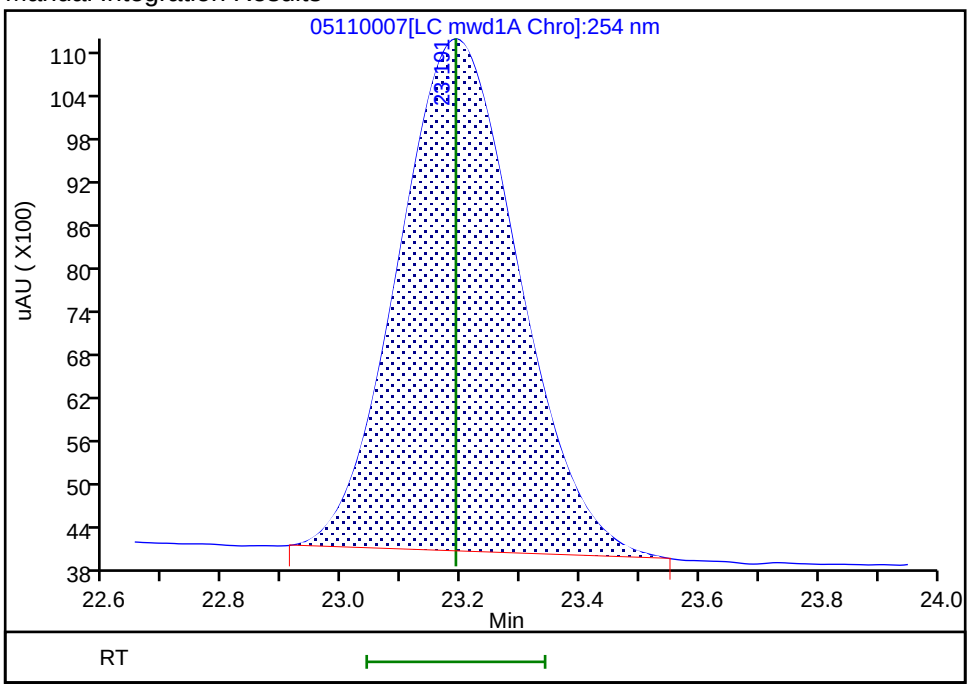
Processing Integration Results

RT: 23.19
Area: 113495
Amount: 0.272522
Amount Units: ug/ml



Manual Integration Results

RT: 23.19
Area: 100177
Amount: 0.240543
Amount Units: ug/ml



Reviewer: LV5D, 14-May-2024 18:06:53 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653069/20 | Calibration Date: 05/11/2024 23:51

Instrument ID: CHHPLC_X5 | Calib Start Date: 03/27/2024 19:58

GC Column: Luna-phenylhex ID: 4.60(mm) | Calib End Date: 03/28/2024 00:38

Lab File ID: 05110020.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	191683	179356		234	250	-6.4	20.0
Picric acid	Ave	150420	158544		264	250	5.4	20.0
RDX	Ave	213594	208732		244	250	-2.3	20.0
Nitrobenzene	Ave	377742	373796		247	250	-1.0	20.0
3,5-Dinitroaniline	Lin2		448100		254	250	1.7	20.0
1,3-Dinitrobenzene	Ave	598366	621604		260	250	3.9	20.0
Nitroglycerin	Ave	135390	140257		2590	2500	3.6	20.0
2-Nitrotoluene	Ave	247354	251604		254	250	1.7	20.0
4-Nitrotoluene	Lin2		219940		250	250	0.0	20.0
4-Amino-2,6-dinitrotoluene	Lin2		283424		252	250	0.7	20.0
3-Nitrotoluene	Lin2		279420		253	250	1.2	20.0
2-Amino-4,6-dinitrotoluene	Lin2		402052		250	250	-0.1	20.0
1,3,5-Trinitrobenzene	Ave	429634	418464		244	250	-2.6	20.0
2,6-Dinitrotoluene	Ave	272831	275744		253	250	1.1	20.0
2,4-Dinitrotoluene	Ave	546523	549084		251	250	0.5	20.0
Tetryl	Ave	336239	309868		230	250	-7.8	20.0
2,4,6-Trinitrotoluene	Ave	416462	399968		240	250	-4.0	20.0
PETN	Lin2		125536		2430	2500	-2.6	20.0
1,2-Dinitrobenzene	Ave	264153	260544		247	250	-1.4	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653069/20 Calibration Date: 05/11/2024 23:51

Instrument ID: CHHPLC_X5 Calib Start Date: 03/27/2024 19:58

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 03/28/2024 00:38

Lab File ID: 05110020.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.62	6.48	6.78
Picric acid	8.19	8.17	8.47
RDX	8.65	8.51	8.81
Nitrobenzene	11.32	11.17	11.47
3,5-Dinitroaniline	14.06	13.92	14.22
1,3-Dinitrobenzene	14.51	14.37	14.67
Nitroglycerin	14.75	14.60	14.90
2-Nitrotoluene	15.43	15.28	15.58
4-Nitrotoluene	15.69	15.54	15.84
4-Amino-2,6-dinitrotoluene	16.14	15.99	16.29
3-Nitrotoluene	16.54	16.39	16.69
2-Amino-4,6-dinitrotoluene	17.01	16.87	17.17
1,3,5-Trinitrobenzene	17.45	17.31	17.61
2,6-Dinitrotoluene	18.43	18.27	18.57
2,4-Dinitrotoluene	18.91	18.76	19.06
Tetryl	22.21	22.06	22.36
2,4,6-Trinitrotoluene	23.19	23.04	23.34
PETN	24.17	24.01	24.31
1,2-Dinitrobenzene	12.31	12.16	12.46

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240511-133288.b\05110020.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 11-May-2024 23:51:55 ALS Bottle#: 7 Worklist Smp#: 20
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV
Operator ID: JZ Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub7

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20240511-133288.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 14-May-2024 18:12:36 Calib Date: 28-Mar-2024 05:53:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1620

First Level Reviewer: LV5D Date: 14-May-2024 18:10:16

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 HMX	1	6.621	6.631	-0.010	44839	0.2500	0.2339	
7 2,4,6-Trinitrophenol	1	8.188	8.317	-0.129	39636	0.2500	0.2635	
8 RDX	1	8.654	8.664	-0.010	52183	0.2500	0.2443	
9 Nitrobenzene	1	11.321	11.317	0.004	93449	0.2500	0.2474	
$ 10 1,2-Dinitrobenzene	1	12.308	12.311	-0.003	65136	0.2500	0.2466	
11 3,5-Dinitroaniline	1	14.061	14.071	-0.010	112025	0.2500	0.2541	
12 1,3-Dinitrobenzene	1	14.508	14.517	-0.009	155401	0.2500	0.2597	
13 Nitroglycerin	2	14.748	14.751	-0.003	350642	2.50	2.59	M
14 o-Nitrotoluene	1	15.428	15.431	-0.003	62901	0.2500	0.2543	
16 p-Nitrotoluene	1	15.694	15.691	0.003	54985	0.2500	0.2501	
17 4-Amino-2,6-dinitrotoluene	1	16.141	16.144	-0.003	70856	0.2500	0.2519	
18 m-Nitrotoluene	1	16.541	16.544	-0.003	69855	0.2500	0.2531	
19 2-Amino-4,6-dinitrotoluene	1	17.008	17.017	-0.009	100513	0.2500	0.2497	
20 1,3,5-Trinitrobenzene	1	17.454	17.464	-0.010	104616	0.2500	0.2435	
21 2,6-Dinitrotoluene	1	18.428	18.424	0.004	68936	0.2500	0.2527	
22 2,4-Dinitrotoluene	1	18.914	18.911	0.003	137271	0.2500	0.2512	
23 Tetryl	1	22.214	22.211	0.003	77467	0.2500	0.2304	M
24 2,4,6-Trinitrotoluene	1	23.188	23.191	-0.003	99992	0.2500	0.2401	M
25 PETN	2	24.174	24.164	0.010	313841	2.50	2.43	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00080 Amount Added: 25.00 Units: uL

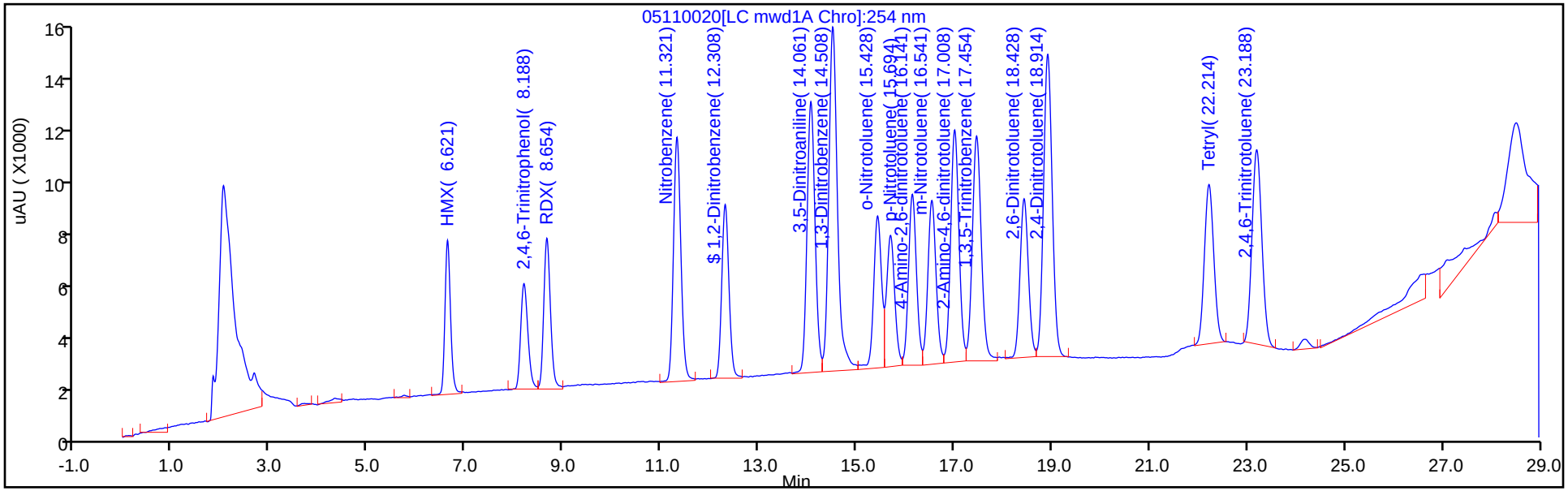
Report Date: 14-May-2024 18:12:37 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

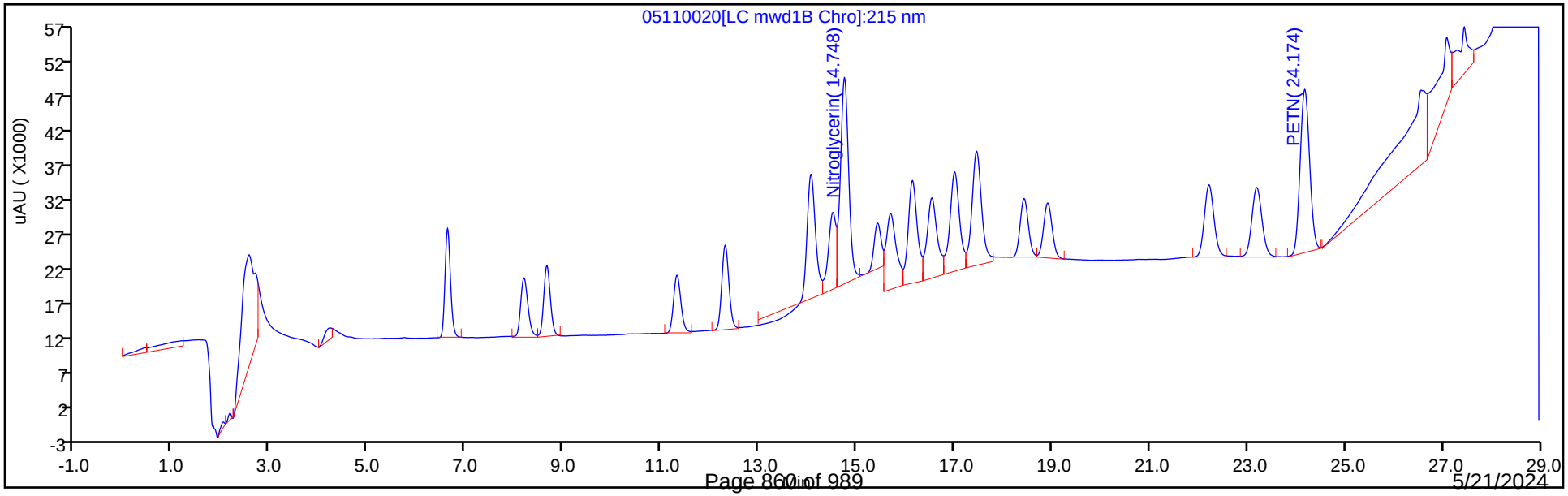
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240511-133288.b\05110020.D

Injection Date:	11-May-2024 23:51:55	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	CCV			Worklist Smp#:	20
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

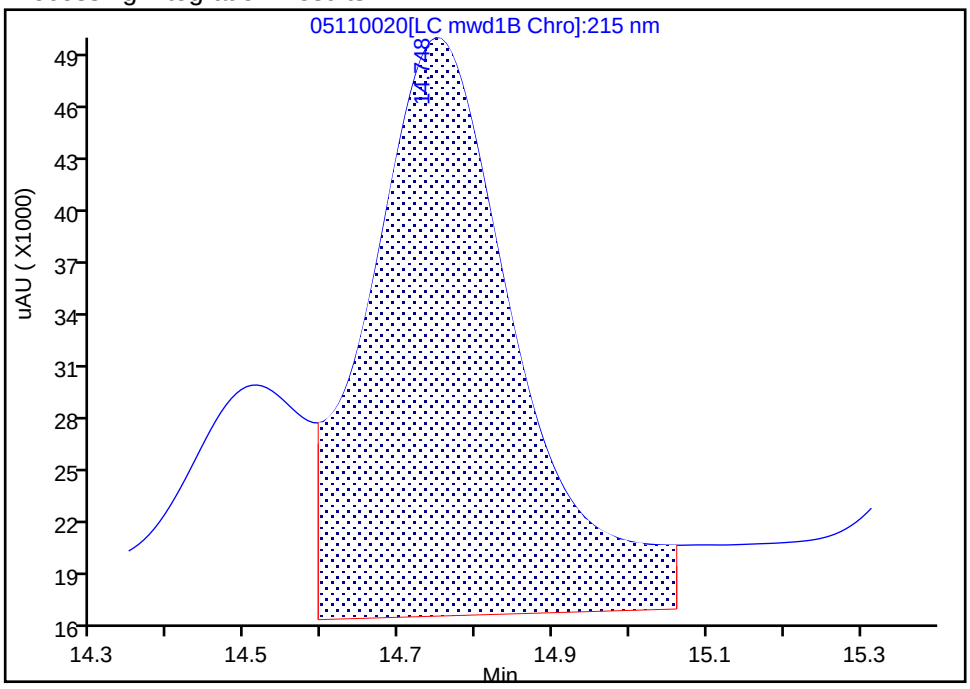
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240511-133288.b\05110020.D				
Injection Date:	11-May-2024 23:51:55	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1B, 215 nm		

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

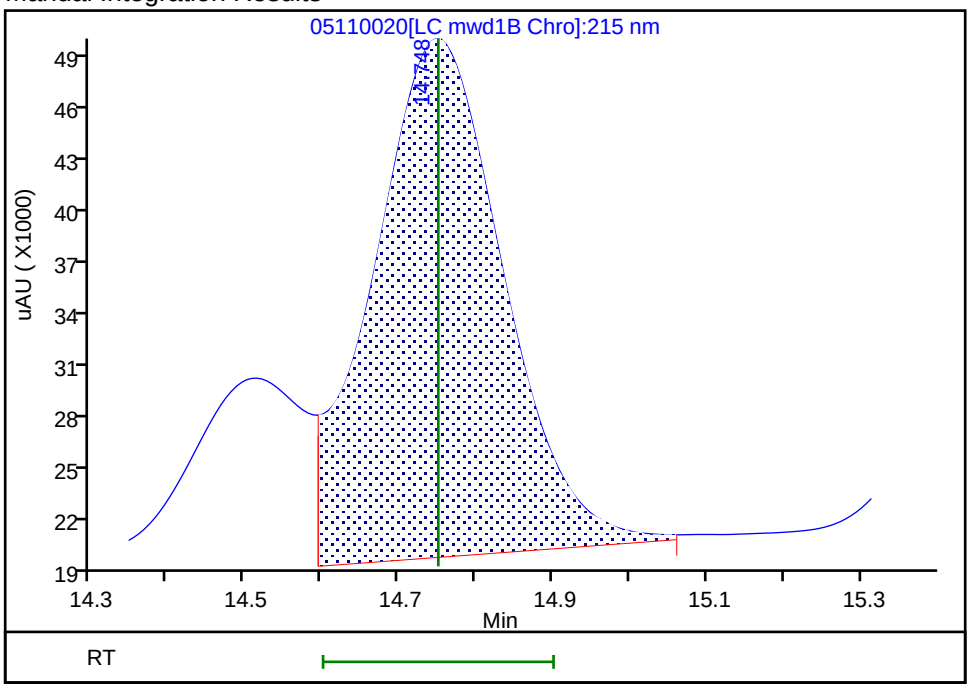
Processing Integration Results

RT: 14.75
Area: 430148
Amount: 3.177107
Amount Units: ug/ml



Manual Integration Results

RT: 14.75
Area: 350642
Amount: 2.589869
Amount Units: ug/ml



Reviewer: LV5D, 14-May-2024 18:10:08 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

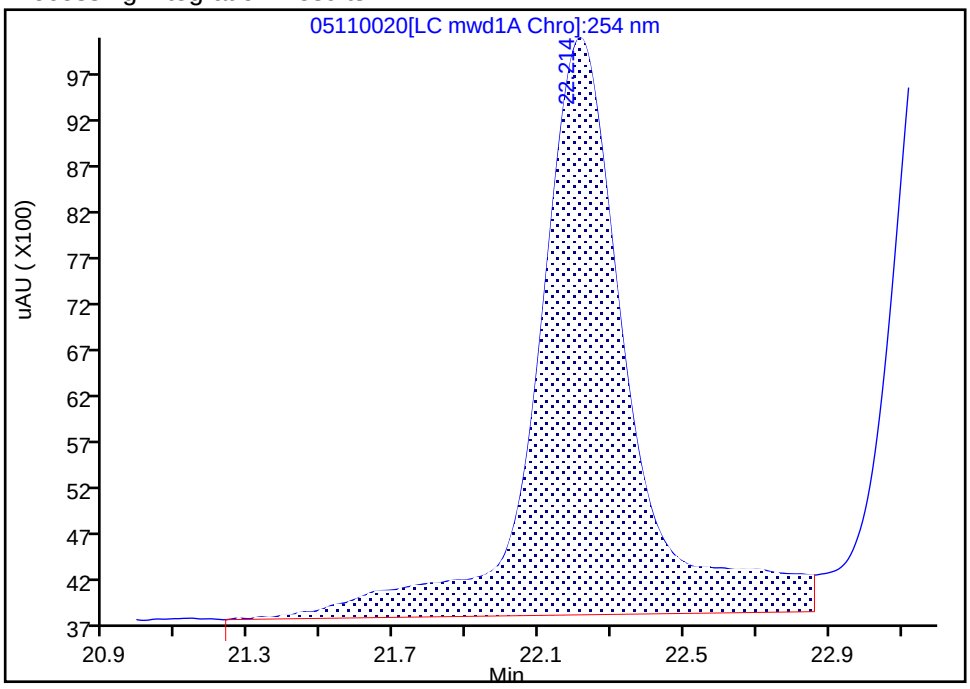
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240511-133288.b\05110020.D				
Injection Date:	11-May-2024 23:51:55	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

23 Tetryl, CAS: 479-45-8

Signal: 1

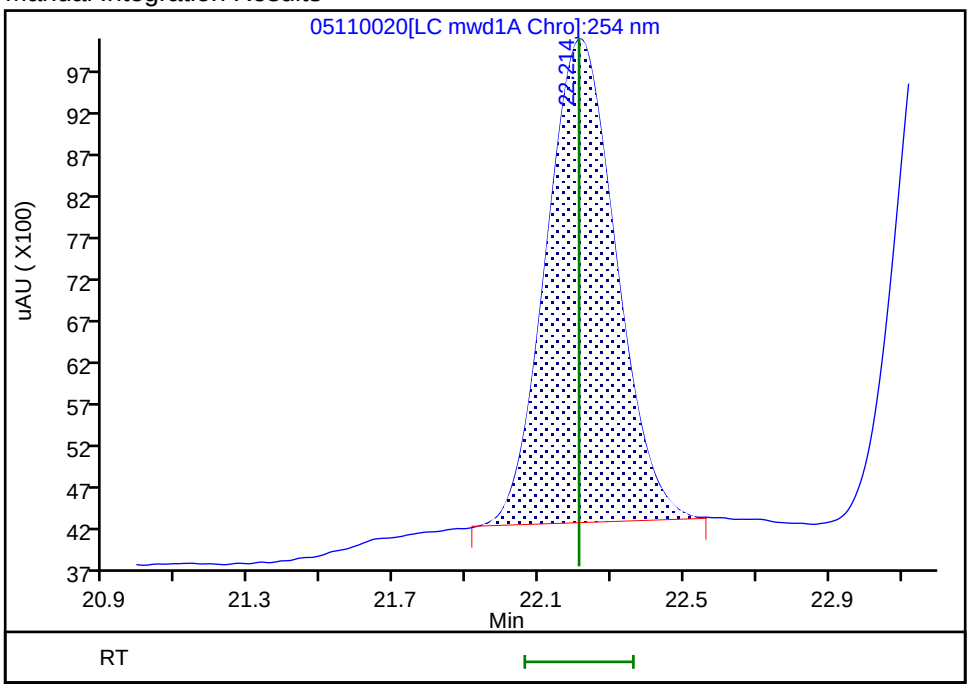
Processing Integration Results

RT: 22.21
Area: 110094
Amount: 0.327428
Amount Units: ug/ml



Manual Integration Results

RT: 22.21
Area: 77467
Amount: 0.230393
Amount Units: ug/ml



Reviewer: LV5D, 14-May-2024 18:10:12 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

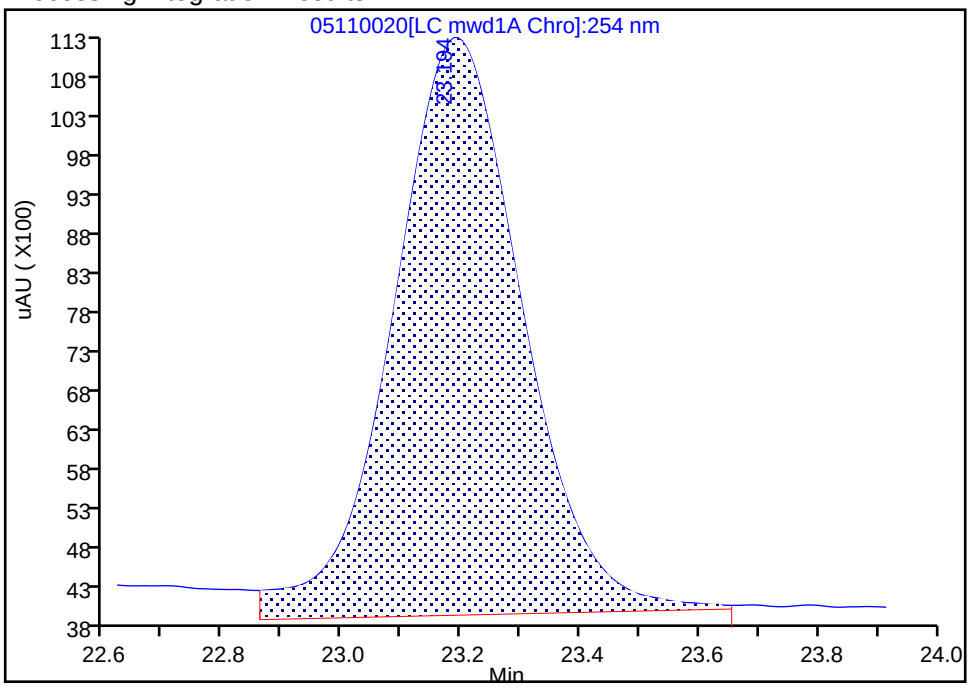
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240511-133288.b\05110020.D				
Injection Date:	11-May-2024 23:51:55	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

24 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

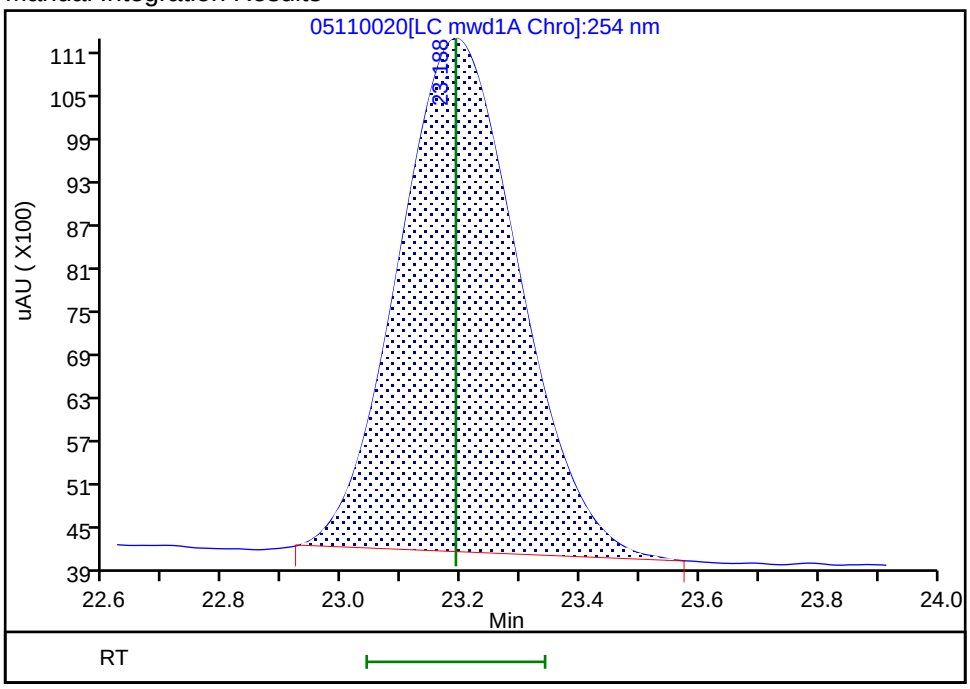
Processing Integration Results

RT: 23.19
Area: 111988
Amount: 0.268903
Amount Units: ug/ml



Manual Integration Results

RT: 23.19
Area: 99992
Amount: 0.240099
Amount Units: ug/ml



Reviewer: LV5D, 14-May-2024 18:10:15 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653873/7 | Calibration Date: 05/17/2024 17:49

Instrument ID: CHHPLC_X5 | Calib Start Date: 03/27/2024 19:58

GC Column: Luna-phenylhex ID: 4.60(mm) | Calib End Date: 03/28/2024 00:38

Lab File ID: 05170007.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	191683	181140		236	250	-5.5	20.0
Picric acid	Ave	150420	156924		261	250	4.3	20.0
RDX	Ave	213594	209304		245	250	-2.0	20.0
Nitrobenzene	Ave	377742	379836		251	250	0.6	20.0
3,5-Dinitroaniline	Lin2		451252		256	250	2.4	20.0
1,3-Dinitrobenzene	Ave	598366	620076		259	250	3.6	20.0
Nitroglycerin	Ave	135390	140782		2600	2500	4.0	20.0
2-Nitrotoluene	Ave	247354	253692		256	250	2.6	20.0
4-Nitrotoluene	Lin2		223560		254	250	1.7	20.0
4-Amino-2,6-dinitrotoluene	Lin2		286568		255	250	1.9	20.0
3-Nitrotoluene	Lin2		283476		257	250	2.7	20.0
2-Amino-4,6-dinitrotoluene	Lin2		408224		254	250	1.4	20.0
1,3,5-Trinitrobenzene	Ave	429634	420296		245	250	-2.2	20.0
2,6-Dinitrotoluene	Ave	272831	275820		253	250	1.1	20.0
2,4-Dinitrotoluene	Ave	546523	549556		251	250	0.6	20.0
Tetryl	Ave	336239	307808		229	250	-8.5	20.0
2,4,6-Trinitrotoluene	Ave	416462	420460		252	250	1.0	20.0
PETN	Lin2		130788		2530	2500	1.4	20.0
1,2-Dinitrobenzene	Ave	264153	263760		250	250	-0.1	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653873/7 Calibration Date: 05/17/2024 17:49

Instrument ID: CHHPLC_X5 Calib Start Date: 03/27/2024 19:58

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 03/28/2024 00:38

Lab File ID: 05170007.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.66	6.51	6.81
Picric acid	8.26	8.11	8.41
RDX	8.70	8.55	8.85
Nitrobenzene	11.36	11.21	11.51
3,5-Dinitroaniline	14.12	13.97	14.27
1,3-Dinitrobenzene	14.57	14.42	14.72
Nitroglycerin	14.78	14.63	14.93
2-Nitrotoluene	15.48	15.33	15.63
4-Nitrotoluene	15.74	15.59	15.89
4-Amino-2,6-dinitrotoluene	16.20	16.05	16.35
3-Nitrotoluene	16.59	16.44	16.74
2-Amino-4,6-dinitrotoluene	17.07	16.92	17.22
1,3,5-Trinitrobenzene	17.52	17.37	17.67
2,6-Dinitrotoluene	18.49	18.34	18.64
2,4-Dinitrotoluene	18.98	18.83	19.13
Tetryl	22.28	22.13	22.43
2,4,6-Trinitrotoluene	23.26	23.11	23.41
PETN	24.19	24.04	24.34
1,2-Dinitrobenzene	12.35	12.20	12.50

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240517-133520.b\05170007.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 17-May-2024 17:49:52 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV
Operator ID: JZ Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub7

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20240517-133520.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 18-May-2024 16:47:03 Calib Date: 28-Mar-2024 05:53:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1674

First Level Reviewer: LV5D Date: 17-May-2024 18:26:32

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 HMX	1	6.664	6.664	0.000	45285	0.2500	0.2362	
7 2,4,6-Trinitrophenol	1	8.264	8.264	0.000	39231	0.2500	0.2608	
8 RDX	1	8.697	8.697	0.000	52326	0.2500	0.2450	
9 Nitrobenzene	1	11.364	11.364	0.000	94959	0.2500	0.2514	
$ 10 1,2-Dinitrobenzene	1	12.351	12.351	0.000	65940	0.2500	0.2496	
11 3,5-Dinitroaniline	1	14.124	14.124	0.000	112813	0.2500	0.2559	
12 1,3-Dinitrobenzene	1	14.571	14.571	0.000	155019	0.2500	0.2591	
13 Nitroglycerin	2	14.784	14.784	0.000	351954	2.50	2.60	M
14 o-Nitrotoluene	1	15.477	15.477	0.000	63423	0.2500	0.2564	
16 p-Nitrotoluene	1	15.737	15.737	0.000	55890	0.2500	0.2542	
17 4-Amino-2,6-dinitrotoluene	1	16.197	16.197	0.000	71642	0.2500	0.2547	
18 m-Nitrotoluene	1	16.591	16.591	0.000	70869	0.2500	0.2568	
19 2-Amino-4,6-dinitrotoluene	1	17.071	17.071	0.000	102056	0.2500	0.2536	
20 1,3,5-Trinitrobenzene	1	17.524	17.524	0.000	105074	0.2500	0.2446	
21 2,6-Dinitrotoluene	1	18.491	18.491	0.000	68955	0.2500	0.2527	
22 2,4-Dinitrotoluene	1	18.977	18.977	0.000	137389	0.2500	0.2514	
23 Tetryl	1	22.277	22.277	0.000	76952	0.2500	0.2289	M
24 2,4,6-Trinitrotoluene	1	23.257	23.257	0.000	105115	0.2500	0.2524	
25 PETN	2	24.191	24.191	0.000	326971	2.50	2.53	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00081 Amount Added: 25.00 Units: uL

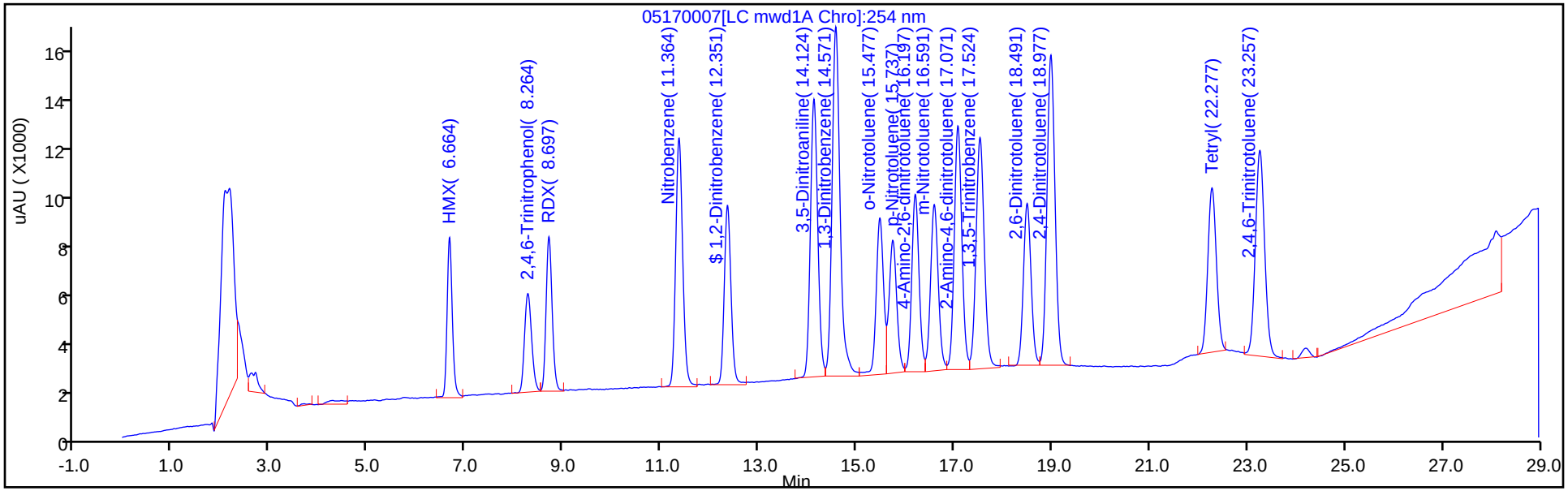
Report Date: 18-May-2024 16:47:03 Chrom Revision: 2.3 14-May-2024 14:23:08

Eurofins Denver

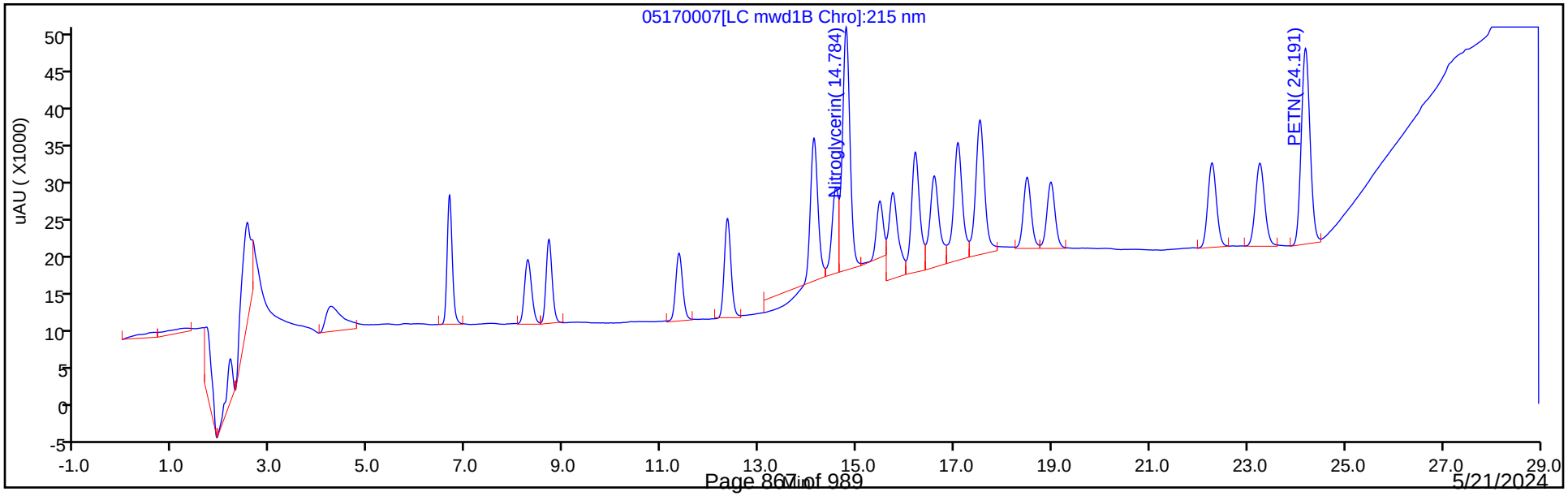
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240517-133520.b\05170007.D

Injection Date:	17-May-2024 17:49:52	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

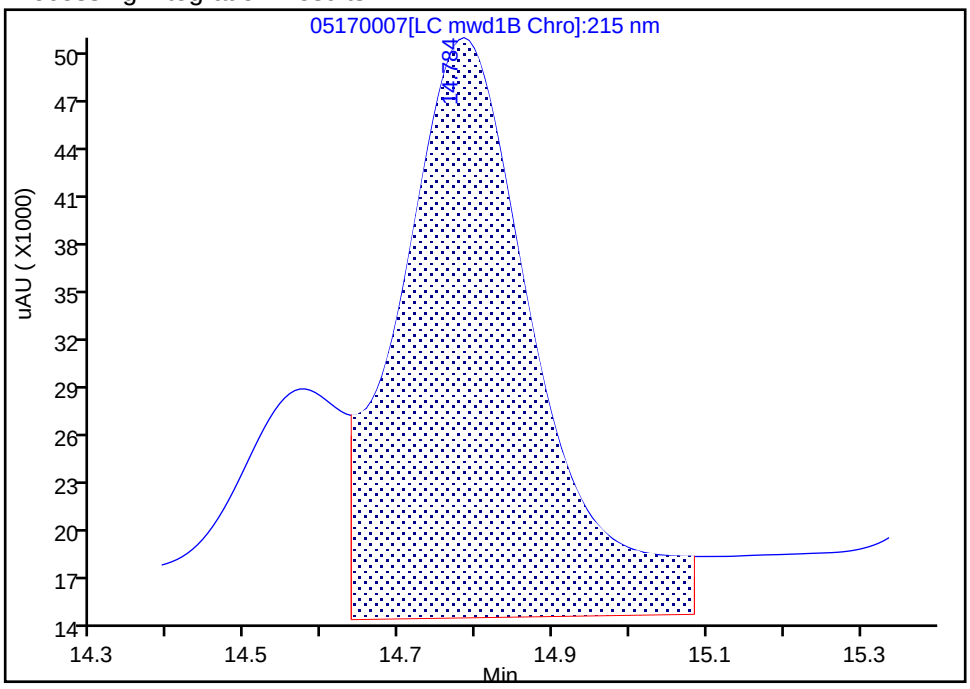
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240517-133520.b\05170007.D				
Injection Date:	17-May-2024 17:49:52	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1B, 215 nm		

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

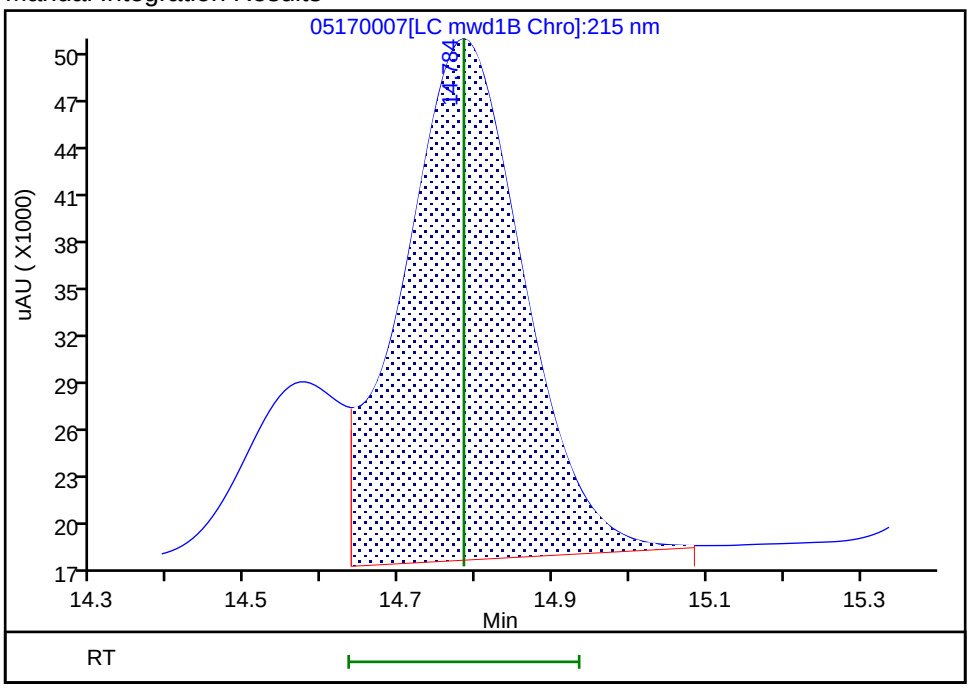
Processing Integration Results

RT: 14.78
Area: 431698
Amount: 3.188555
Amount Units: ug/ml



Manual Integration Results

RT: 14.78
Area: 351954
Amount: 2.599560
Amount Units: ug/ml



Reviewer: LV5D, 17-May-2024 18:26:22 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

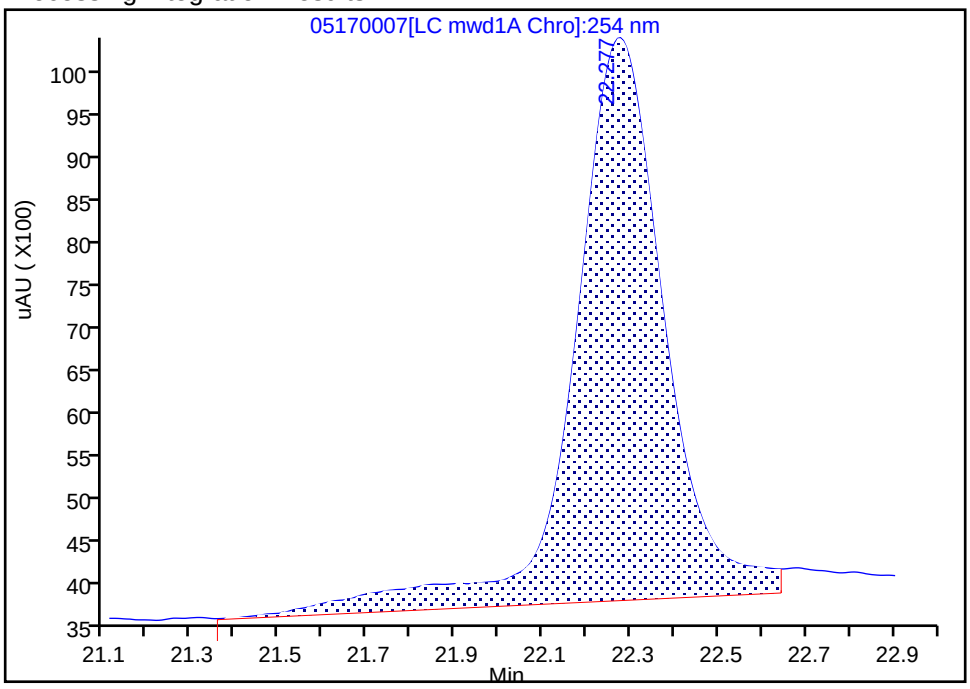
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240517-133520.b\05170007.D				
Injection Date:	17-May-2024 17:49:52	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

23 Tetryl, CAS: 479-45-8

Signal: 1

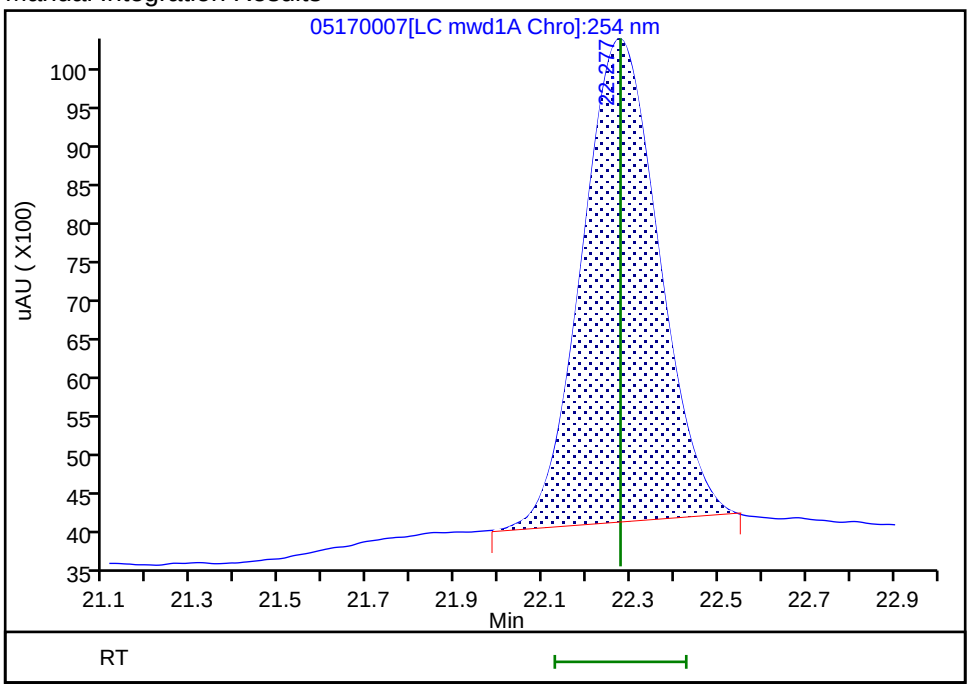
Processing Integration Results

RT: 22.28
Area: 96187
Amount: 0.286068
Amount Units: ug/ml



Manual Integration Results

RT: 22.28
Area: 76952
Amount: 0.228861
Amount Units: ug/ml



Reviewer: LV5D, 17-May-2024 18:26:27 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653873/20 | Calibration Date: 05/18/2024 00:14

Instrument ID: CHHPLC_X5 | Calib Start Date: 03/27/2024 19:58

GC Column: Luna-phenylhex ID: 4.60(mm) | Calib End Date: 03/28/2024 00:38

Lab File ID: 05170020.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	191683	182360		238	250	-4.9	20.0
Picric acid	Ave	150420	158120		263	250	5.1	20.0
RDX	Ave	213594	209760		246	250	-1.8	20.0
Nitrobenzene	Ave	377742	374348		248	250	-0.9	20.0
3,5-Dinitroaniline	Lin2		452532		257	250	2.7	20.0
1,3-Dinitrobenzene	Ave	598366	626048		262	250	4.6	20.0
Nitroglycerin	Ave	135390	141284		2610	2500	4.4	20.0
2-Nitrotoluene	Ave	247354	245848		248	250	-0.6	20.0
4-Nitrotoluene	Lin2		224480		255	250	2.1	20.0
4-Amino-2,6-dinitrotoluene	Lin2		285088		253	250	1.3	20.0
3-Nitrotoluene	Lin2		279944		254	250	1.4	20.0
2-Amino-4,6-dinitrotoluene	Lin2		405984		252	250	0.9	20.0
1,3,5-Trinitrobenzene	Ave	429634	420316		245	250	-2.2	20.0
2,6-Dinitrotoluene	Ave	272831	275664		253	250	1.0	20.0
2,4-Dinitrotoluene	Ave	546523	552540		253	250	1.1	20.0
Tetryl	Ave	336239	311736		232	250	-7.3	20.0
2,4,6-Trinitrotoluene	Ave	416462	410288		246	250	-1.5	20.0
PETN	Lin2		132956		2580	2500	3.0	20.0
1,2-Dinitrobenzene	Ave	264153	262980		249	250	-0.4	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Lab Sample ID: CCV 280-653873/20 Calibration Date: 05/18/2024 00:14

Instrument ID: CHHPLC_X5 Calib Start Date: 03/27/2024 19:58

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 03/28/2024 00:38

Lab File ID: 05170020.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.66	6.51	6.81
Picric acid	8.20	8.11	8.41
RDX	8.70	8.55	8.85
Nitrobenzene	11.36	11.21	11.51
3,5-Dinitroaniline	14.13	13.97	14.27
1,3-Dinitrobenzene	14.57	14.42	14.72
Nitroglycerin	14.78	14.63	14.93
2-Nitrotoluene	15.48	15.33	15.63
4-Nitrotoluene	15.75	15.59	15.89
4-Amino-2,6-dinitrotoluene	16.21	16.05	16.35
3-Nitrotoluene	16.59	16.44	16.74
2-Amino-4,6-dinitrotoluene	17.07	16.92	17.22
1,3,5-Trinitrobenzene	17.53	17.37	17.67
2,6-Dinitrotoluene	18.50	18.34	18.64
2,4-Dinitrotoluene	18.99	18.83	19.13
Tetryl	22.30	22.13	22.43
2,4,6-Trinitrotoluene	23.27	23.11	23.41
PETN	24.21	24.04	24.34
1,2-Dinitrobenzene	12.35	12.20	12.50

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240517-133520.b\05170020.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-May-2024 00:14:19 ALS Bottle#: 7 Worklist Smp#: 20
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV
Operator ID: JZ Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub7

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20240517-133520.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 18-May-2024 16:47:05 Calib Date: 28-Mar-2024 05:53:05
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240327-131602.b\03270027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1674

First Level Reviewer: LV5D Date: 18-May-2024 16:40:01

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 HMX	1	6.660	6.664	-0.004	45590	0.2500	0.2378	
7 2,4,6-Trinitrophenol	1	8.200	8.264	-0.064	39530	0.2500	0.2628	
8 RDX	1	8.700	8.697	0.003	52440	0.2500	0.2455	
9 Nitrobenzene	1	11.360	11.364	-0.004	93587	0.2500	0.2478	
$ 10 1,2-Dinitrobenzene	1	12.353	12.351	0.002	65745	0.2500	0.2489	
11 3,5-Dinitroaniline	1	14.127	14.124	0.003	113133	0.2500	0.2567	
12 1,3-Dinitrobenzene	1	14.573	14.571	0.002	156512	0.2500	0.2616	
13 Nitroglycerin	2	14.780	14.784	-0.004	353209	2.50	2.61	M
14 o-Nitrotoluene	1	15.480	15.477	0.003	61462	0.2500	0.2485	
16 p-Nitrotoluene	1	15.747	15.737	0.010	56120	0.2500	0.2553	
17 4-Amino-2,6-dinitrotoluene	1	16.207	16.197	0.010	71272	0.2500	0.2534	
18 m-Nitrotoluene	1	16.593	16.591	0.002	69986	0.2500	0.2535	
19 2-Amino-4,6-dinitrotoluene	1	17.073	17.071	0.002	101496	0.2500	0.2522	
20 1,3,5-Trinitrobenzene	1	17.527	17.524	0.003	105079	0.2500	0.2446	
21 2,6-Dinitrotoluene	1	18.500	18.491	0.009	68916	0.2500	0.2526	
22 2,4-Dinitrotoluene	1	18.987	18.977	0.010	138135	0.2500	0.2528	
23 Tetryl	1	22.300	22.277	0.023	77934	0.2500	0.2318	M
24 2,4,6-Trinitrotoluene	1	23.273	23.257	0.016	102572	0.2500	0.2463	
25 PETN	2	24.213	24.191	0.022	332389	2.50	2.58	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00081 Amount Added: 25.00 Units: uL

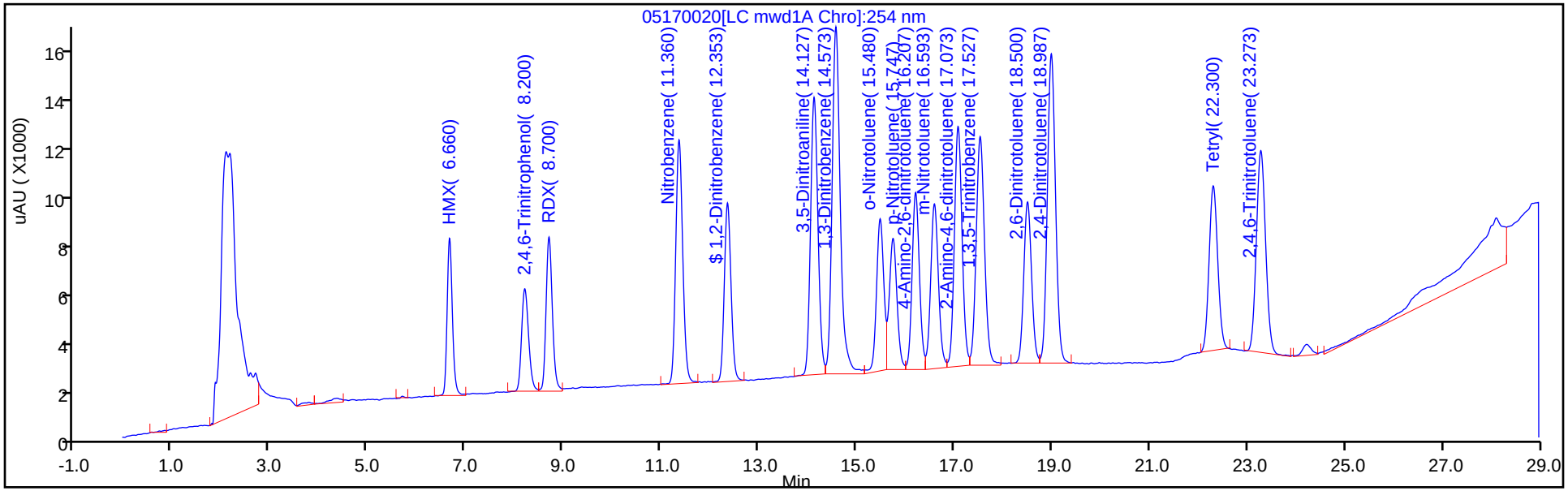
Report Date: 18-May-2024 16:47:05 Chrom Revision: 2.3 14-May-2024 14:23:08

Eurofins Denver

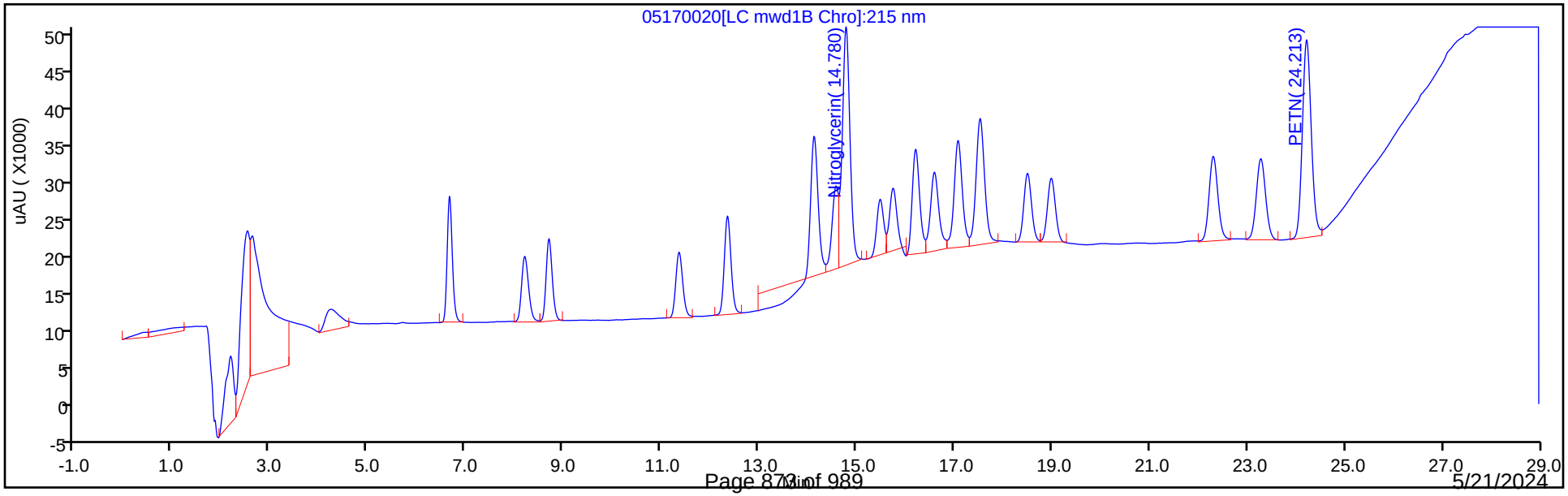
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20240517-133520.b\05170020.D

Injection Date:	18-May-2024 00:14:19	Instrument ID:	CHHPLC_X5	Operator ID:	JZ
Lims ID:	CCV			Worklist Smp#:	20
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Manual Integration/User Assign Peak Report

Eurofins Denver

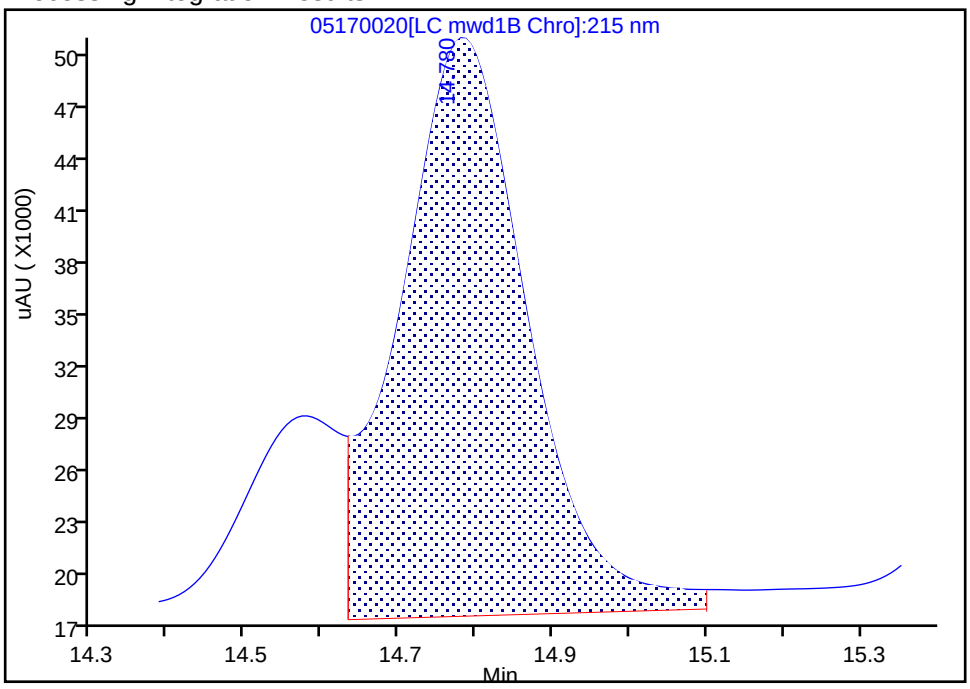
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240517-133520.b\05170020.D				
Injection Date:	18-May-2024 00:14:19	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1B, 215 nm		

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

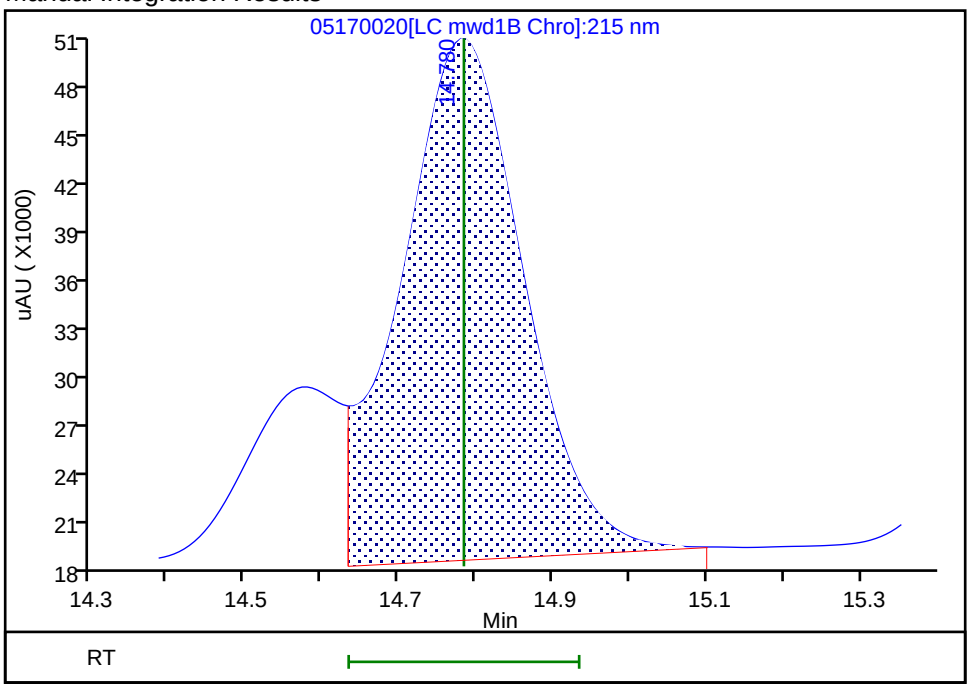
Processing Integration Results

RT: 14.78
Area: 376267
Amount: 2.779138
Amount Units: ug/ml



Manual Integration Results

RT: 14.78
Area: 353209
Amount: 2.608830
Amount Units: ug/ml



Reviewer: LV5D, 18-May-2024 16:39:56 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

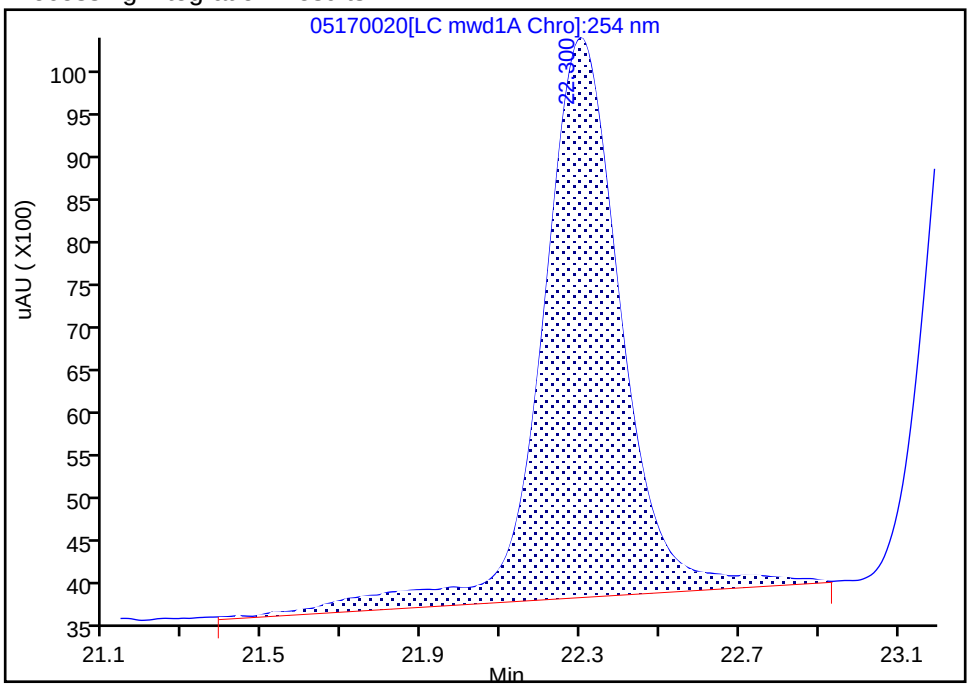
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20240517-133520.b\05170020.D				
Injection Date:	18-May-2024 00:14:19	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

23 Tetryl, CAS: 479-45-8

Signal: 1

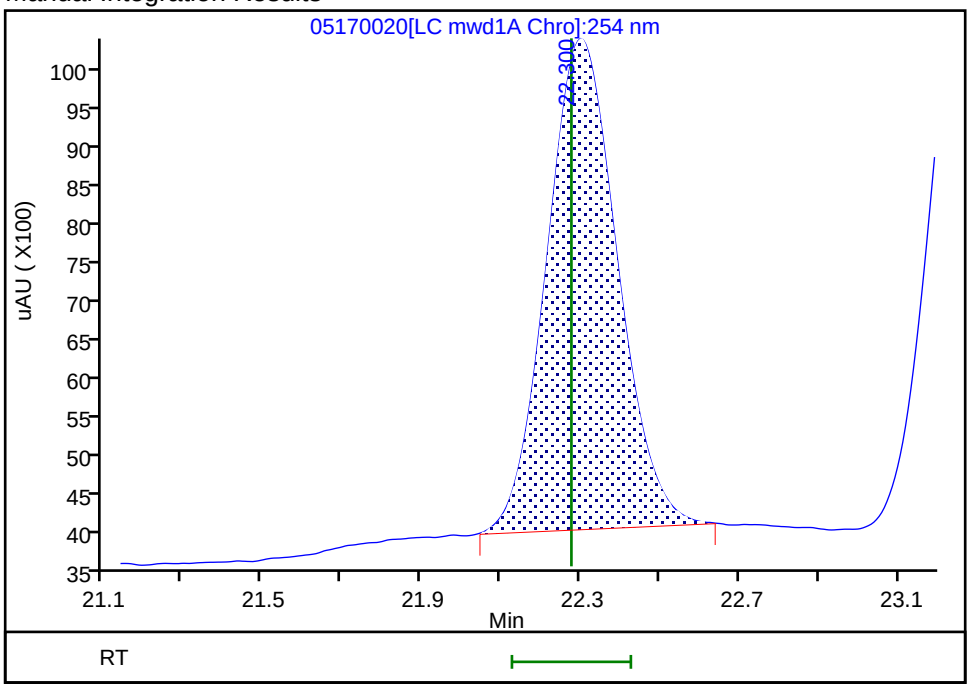
Processing Integration Results

RT: 22.30
Area: 90621
Amount: 0.269514
Amount Units: ug/ml



Manual Integration Results

RT: 22.30
Area: 77934
Amount: 0.231782
Amount Units: ug/ml



Reviewer: LV5D, 18-May-2024 16:40:00 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-652898/1-A

Matrix: Water | Lab File ID: 05010028.D

Analysis Method: 8330B | Date Collected:

Extraction Method: 3535 | Date Extracted: 05/10/2024 10:58

Sample wt/vol: 500(mL) | Date Analyzed: 05/11/2024 15:16

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 100(uL) | GC Column: UltraCarb5uODS ID: 4.6(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653063 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.20	U M	0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051
88-72-2	2-Nitrotoluene	0.20	U	0.21	0.20	0.086
99-08-1	3-Nitrotoluene	0.35	U	0.40	0.35	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058
99-99-0	4-Nitrotoluene	0.40	U	0.41	0.40	0.10
2691-41-0	HMX	0.20	U	0.21	0.20	0.088
98-95-3	Nitrobenzene	0.20	U	0.21	0.20	0.091
55-63-0	Nitroglycerin	2.0	U	2.1	2.0	0.92
78-11-5	PETN	1.0	U	1.1	1.0	0.45
121-82-4	RDX	0.20	U	0.21	0.20	0.052
479-45-8	Tetryl	0.10	U	0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	97	M	83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\05010028.D
Lims ID: MB 280-652898/1-A
Client ID:
Sample Type: MB
Inject. Date: 11-May-2024 15:16:41 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: MB 280-652898/1-A
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 14-May-2024 14:09:25 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1620

First Level Reviewer: LV5D Date: 14-May-2024 12:38:17

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
	1 Triamine Trinitrobenzene	1		2.444				ND	
	2 2,6-diamino-4-nitrotoluene	1		6.460				ND	7
	3 TNX	1		6.506				ND	
	4 HMX	1		6.611				ND	
	5 2,4-diamino-6-nitrotoluene	1		6.633				ND	
	6 DNX	1		6.892				ND	
	7 MNX	1		7.258				ND	U
	8 RDX	1		7.631				ND	
	9 2,4,6-Trinitrophenol	1		7.845				ND	
$	10 1,2-Dinitrobenzene	1	8.557	8.565	-0.008	25687	0.2000	0.1944	M
	11 1,3,5-Trinitrobenzene	1		8.705				ND	U
	12 1,3-Dinitrobenzene	1		9.318				ND	
	13 Nitrobenzene	1		9.671				ND	
	14 3,5-Dinitroaniline	1		9.904				ND	
	15 Tetryl	1		9.991				ND	
	16 Nitroglycerin	2		10.458				ND	
	17 2,4,6-Trinitrotoluene	1		10.891				ND	
	18 4-Amino-2,6-dinitrotoluene	1		11.064				ND	
	19 2-Amino-4,6-dinitrotoluene	1		11.318				ND	
	20 2,6-Dinitrotoluene	1		11.464				ND	
	21 2,4-Dinitrotoluene	1		11.638				ND	
	22 o-Nitrotoluene	1		12.418				ND	7
	23 p-Nitrotoluene	1		12.831				ND	
	24 m-Nitrotoluene	1		13.371				ND	
	25 PETN	2		14.418				ND	
	26 Ammonium Picrate	1		0.000				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
M - Manually Integrated
U - Marked Undetected

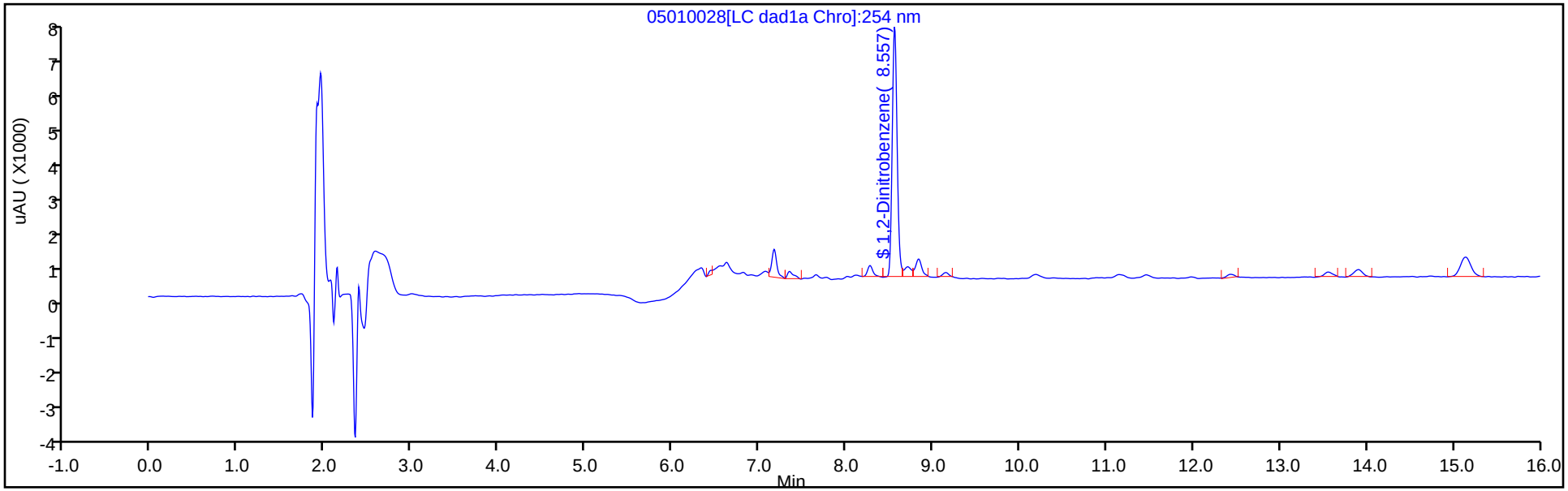
Report Date: 14-May-2024 14:09:26 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

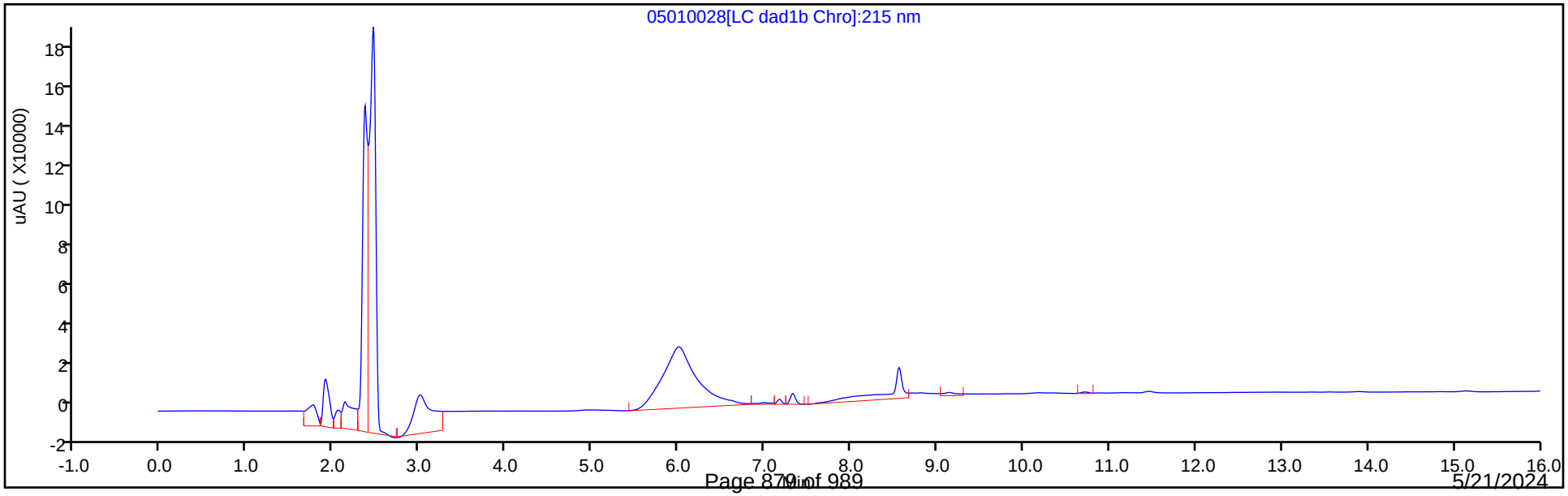
Data File: \\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010028.d

Injection Date:	11-May-2024 15:16:41	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	MB 280-652898/1-A			Worklist Smp#:	28
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\05010028.D				
Lims ID:	MB 280-652898/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	11-May-2024 15:16:41	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	MB 280-652898/1-A				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	14-May-2024 14:09:25	Calib Date:	18-Apr-2024 03:08:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1620				

First Level Reviewer: LV5D Date: 14-May-2024 12:38:17

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1944	97.22

Manual Integration/User Assign Peak Report

Eurofins Denver

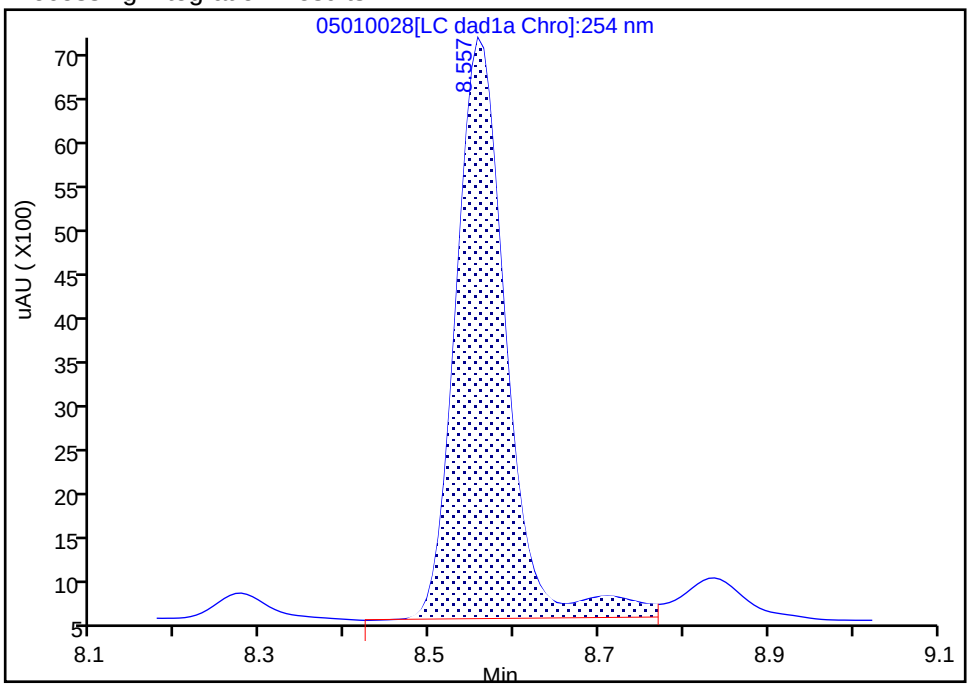
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010028.d				
Injection Date:	11-May-2024 15:16:41	Instrument ID:	CHHPLC_X3		
Lims ID:	MB 280-652898/1-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

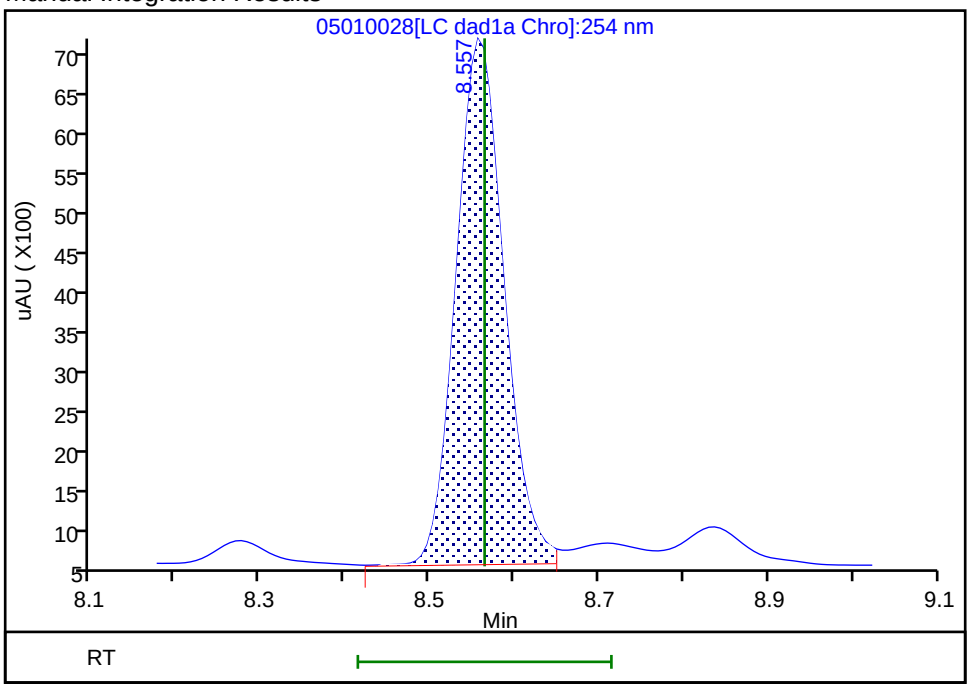
Processing Integration Results

RT: 8.56
Area: 27135
Amount: 0.205432
Amount Units: ug/mL



Manual Integration Results

RT: 8.56
Area: 25687
Amount: 0.194432
Amount Units: ug/mL



Reviewer: LV5D, 14-May-2024 12:38:15 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

User Disabled Compound Report

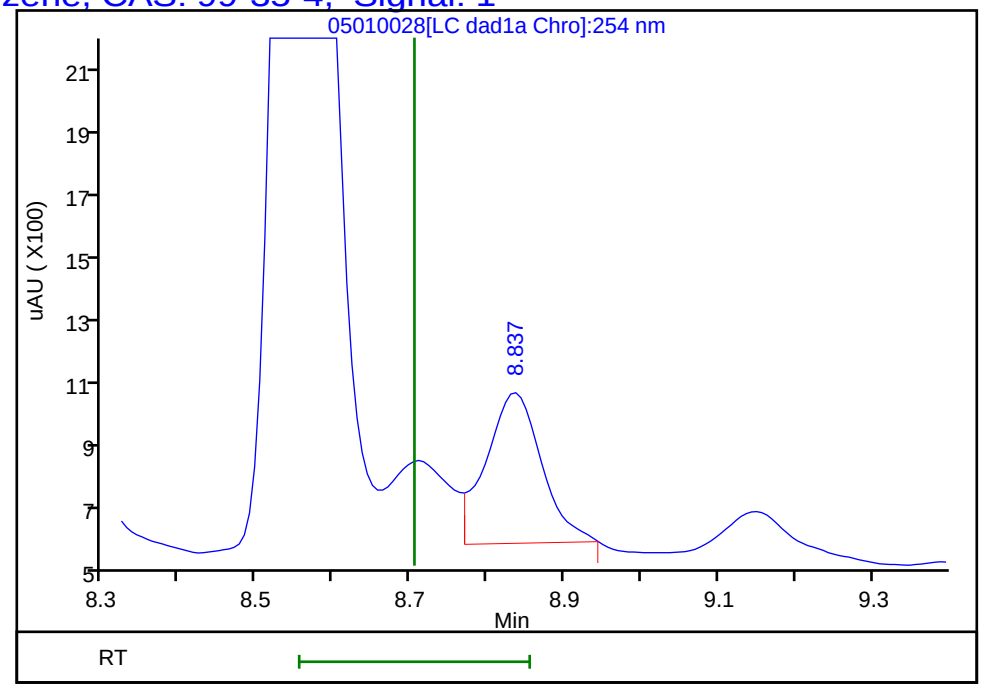
Eurofins Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010028.d
Injection Date: 11-May-2024 15:16:41 Instrument ID: CHHPLC_X3
Lims ID: MB 280-652898/1-A
Client ID:
Operator ID: JZ ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

11 1,3,5-Trinitrobenzene, CAS: 99-35-4, Signal: 1

RT: 8.84
Response: 2222
Amount: 0.009971



Reviewer: LV5D, 14-May-2024 12:38:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-653565/1-A

Matrix: Water | Lab File ID: 05170040.D

Analysis Method: 8330B | Date Collected:

Extraction Method: 3535 | Date Extracted: 05/17/2024 13:10

Sample wt/vol: 500(mL) | Date Analyzed: 05/18/2024 02:06

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 100(uL) | GC Column: UltraCarb5uODS ID: 4.6(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653871 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.20	U	0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051
88-72-2	2-Nitrotoluene	0.20	U	0.21	0.20	0.086
99-08-1	3-Nitrotoluene	0.35	U	0.40	0.35	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058
99-99-0	4-Nitrotoluene	0.40	U	0.41	0.40	0.10
2691-41-0	HMX	0.20	U	0.21	0.20	0.088
98-95-3	Nitrobenzene	0.20	U	0.21	0.20	0.091
55-63-0	Nitroglycerin	2.0	U	2.1	2.0	0.92
78-11-5	PETN	1.0	U	1.1	1.0	0.45
121-82-4	RDX	0.20	U	0.21	0.20	0.052
479-45-8	Tetryl	0.10	U	0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	98		83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\05170040.D
Lims ID: MB 280-653565/1-A
Client ID:
Sample Type: MB
Inject. Date: 18-May-2024 02:06:19 ALS Bottle#: 40 Worklist Smp#: 40
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: MB 280-653565/1-A
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-May-2024 10:51:45 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1674

First Level Reviewer: LV5D Date: 18-May-2024 10:34:40

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
	1 Triamine Trinitrobenzene	1		2.444				ND	
	2 2,6-diamino-4-nitrotoluene	1		6.460				ND	7
	3 TNX	1		6.506				ND	
	4 HMX	1		6.617				ND	
	5 2,4-diamino-6-nitrotoluene	1		6.633				ND	7
	6 DNX	1		6.892				ND	
	7 MNX	1		7.258				ND	U
	8 RDX	1		7.630				ND	
	9 2,4,6-Trinitrophenol	1		7.863				ND	
$	10 1,2-Dinitrobenzene	1	8.554	8.557	-0.003	25956	0.2000	0.1965	
	11 1,3,5-Trinitrobenzene	1	8.707	8.697	0.010	1244		0.005582	
	12 1,3-Dinitrobenzene	1		9.310				ND	
	13 Nitrobenzene	1		9.670				ND	
	14 3,5-Dinitroaniline	1		9.890				ND	
	15 Tetryl	1		9.983				ND	
	16 Nitroglycerin	2		10.457				ND	
	17 2,4,6-Trinitrotoluene	1		10.883				ND	
	18 4-Amino-2,6-dinitrotoluene	1		11.043				ND	
	19 2-Amino-4,6-dinitrotoluene	1		11.297				ND	
	20 2,6-Dinitrotoluene	1		11.450				ND	
	21 2,4-Dinitrotoluene	1		11.623				ND	
	22 o-Nitrotoluene	1		12.410				ND	7
	23 p-Nitrotoluene	1		12.823				ND	
	24 m-Nitrotoluene	1		13.370				ND	
	25 PETN	2		14.437				ND	
	26 Ammonium Picrate	1		0.000				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

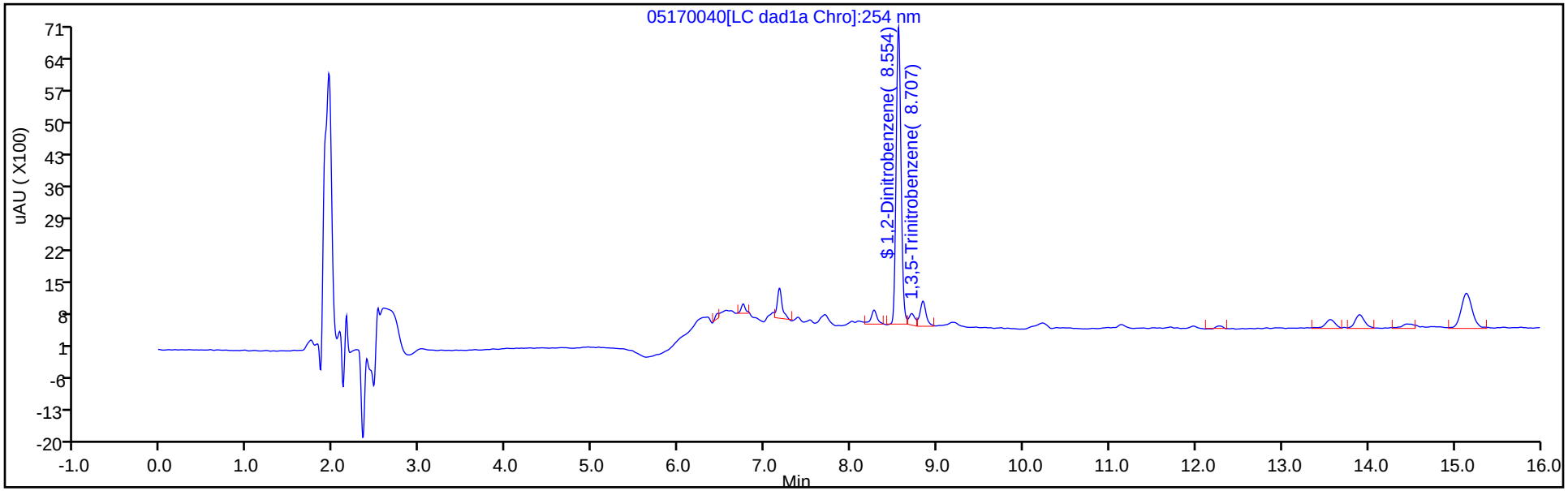
Report Date: 18-May-2024 10:51:46 Chrom Revision: 2.3 14-May-2024 14:23:08

Eurofins Denver

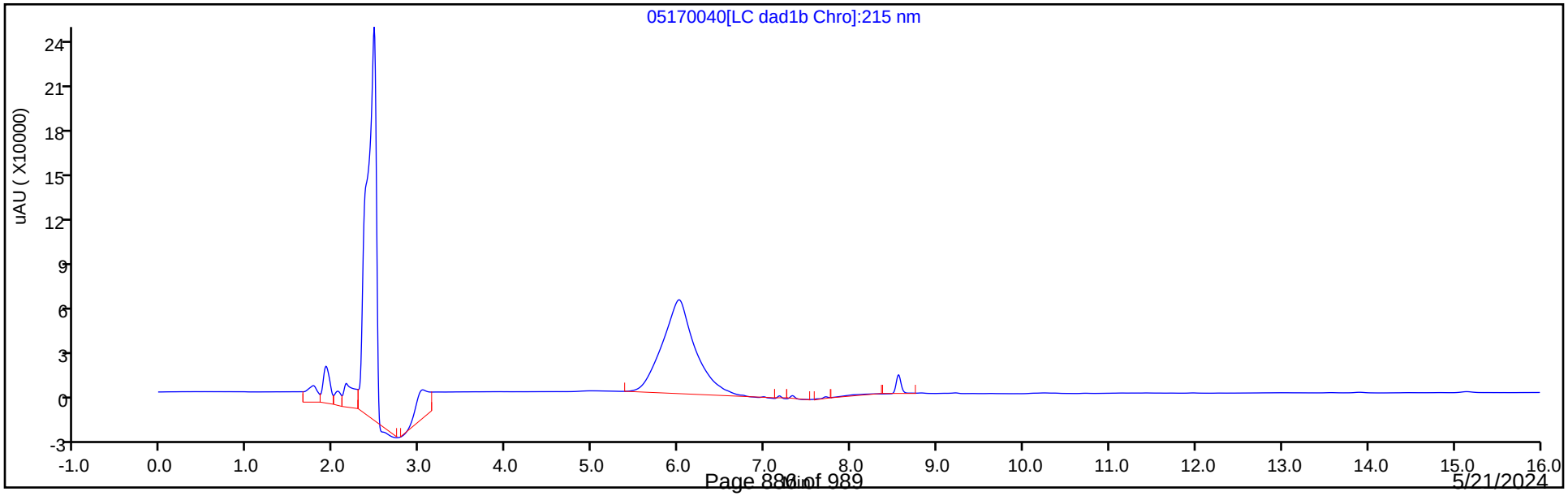
Data File: \\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170040.d

Injection Date:	18-May-2024 02:06:19	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	MB 280-653565/1-A			Worklist Smp#:	40
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	40
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\05170040.D				
Lims ID:	MB 280-653565/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	18-May-2024 02:06:19	ALS Bottle#:	40	Worklist Smp#:	40
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	MB 280-653565/1-A				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	18-May-2024 10:51:45	Calib Date:	18-Apr-2024 03:08:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1674				

First Level Reviewer: LV5D Date: 18-May-2024 10:34:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1965	98.24

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-652898/2-A

Matrix: Water | Lab File ID: 05010029.D

Analysis Method: 8330B | Date Collected:

Extraction Method: 3535 | Date Extracted: 05/10/2024 10:58

Sample wt/vol: 500(mL) | Date Analyzed: 05/11/2024 15:39

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 100(uL) | GC Column: UltraCarb5uODS ID: 4.6(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653063 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	2.02		0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	1.79		0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	1.76		0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	1.67		0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	1.70		0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	1.72		0.11	0.10	0.051
88-72-2	2-Nitrotoluene	1.28	Q	0.21	0.20	0.086
99-08-1	3-Nitrotoluene	1.24	Q	0.40	0.35	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.76		0.15	0.12	0.058
99-99-0	4-Nitrotoluene	1.24	Q	0.41	0.40	0.10
2691-41-0	HMX	1.77	M	0.21	0.20	0.088
98-95-3	Nitrobenzene	1.51		0.21	0.20	0.091
55-63-0	Nitroglycerin	19.4		2.1	2.0	0.92
78-11-5	PETN	20.1		1.1	1.0	0.45
121-82-4	RDX	1.78		0.21	0.20	0.052
479-45-8	Tetryl	1.74		0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	90		83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\05010029.D
Lims ID: LCS 280-652898/2-A
Client ID:
Sample Type: LCS
Inject. Date: 11-May-2024 15:39:40 ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCS 280-652898/2-A
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 14-May-2024 14:09:25 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1620

First Level Reviewer: LV5D Date: 14-May-2024 12:41:46

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
4 HMX	1	6.615	6.611	0.004	16958	0.2000	0.1775	M
8 RDX	1	7.628	7.631	-0.003	19768	0.2000	0.1785	
9 2,4,6-Trinitrophenol	1	7.835	7.845	-0.010	15986	0.2000	0.2015	
$ 10 1,2-Dinitrobenzene	1	8.561	8.565	-0.004	23885	0.2000	0.1807	
11 1,3,5-Trinitrobenzene	1	8.695	8.705	-0.010	44918	0.2000	0.2016	
12 1,3-Dinitrobenzene	1	9.308	9.318	-0.010	53627	0.2000	0.1791	
13 Nitrobenzene	1	9.661	9.671	-0.010	29614	0.2000	0.1508	
14 3,5-Dinitroaniline	1	9.894	9.904	-0.010	37975	0.2000	0.1729	
15 Tetryl	1	9.974	9.991	-0.017	31543	0.2000	0.1737	
16 Nitroglycerin	2	10.441	10.458	-0.017	128974	2.00	1.94	
17 2,4,6-Trinitrotoluene	1	10.874	10.891	-0.017	37809	0.2000	0.1757	
18 4-Amino-2,6-dinitrotoluene	1	11.048	11.064	-0.016	26409	0.2000	0.1761	
19 2-Amino-4,6-dinitrotoluene	1	11.301	11.318	-0.017	34438	0.2000	0.1724	
20 2,6-Dinitrotoluene	1	11.448	11.464	-0.016	24919	0.2000	0.1696	
21 2,4-Dinitrotoluene	1	11.621	11.638	-0.017	48770	0.2000	0.1671	
22 o-Nitrotoluene	1	12.401	12.418	-0.017	16607	0.2000	0.1284	
23 p-Nitrotoluene	1	12.814	12.831	-0.017	14006	0.2000	0.1242	
24 m-Nitrotoluene	1	13.361	13.371	-0.010	17894	0.2000	0.1242	
25 PETN	2	14.408	14.418	-0.010	144676	2.00	2.01	
26 Ammonium Picrate	1		0.000			ND	ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

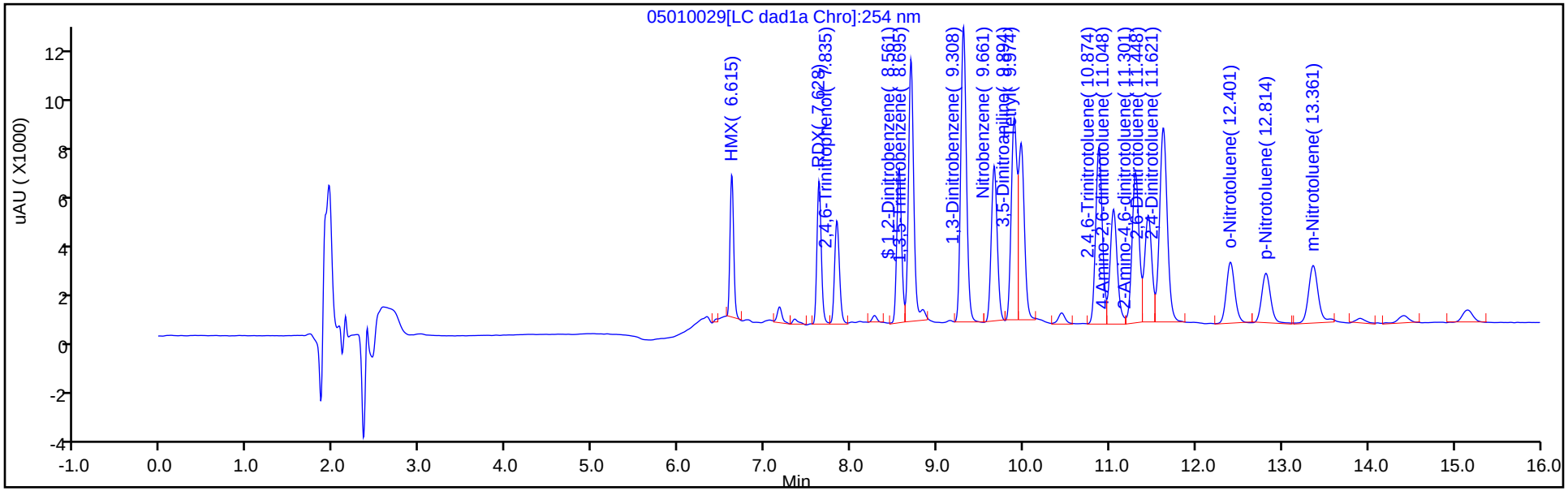
Report Date: 14-May-2024 14:09:27 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

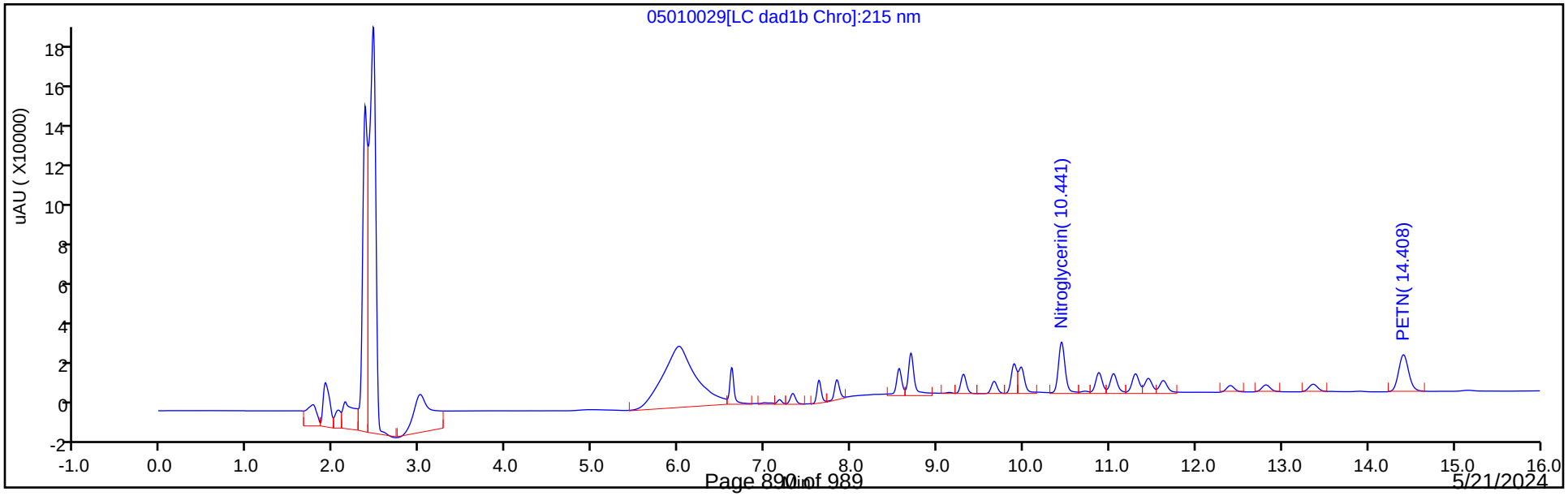
Data File: \\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010029.d

Injection Date:	11-May-2024 15:39:40	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCS 280-652898/2-A			Worklist Smp#:	29
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\05010029.D				
Lims ID:	LCS 280-652898/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	11-May-2024 15:39:40	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 280-652898/2-A				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	14-May-2024 14:09:25	Calib Date:	18-Apr-2024 03:08:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1620				

First Level Reviewer: LV5D Date: 14-May-2024 12:41:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1807	90.37

Manual Integration/User Assign Peak Report

Eurofins Denver

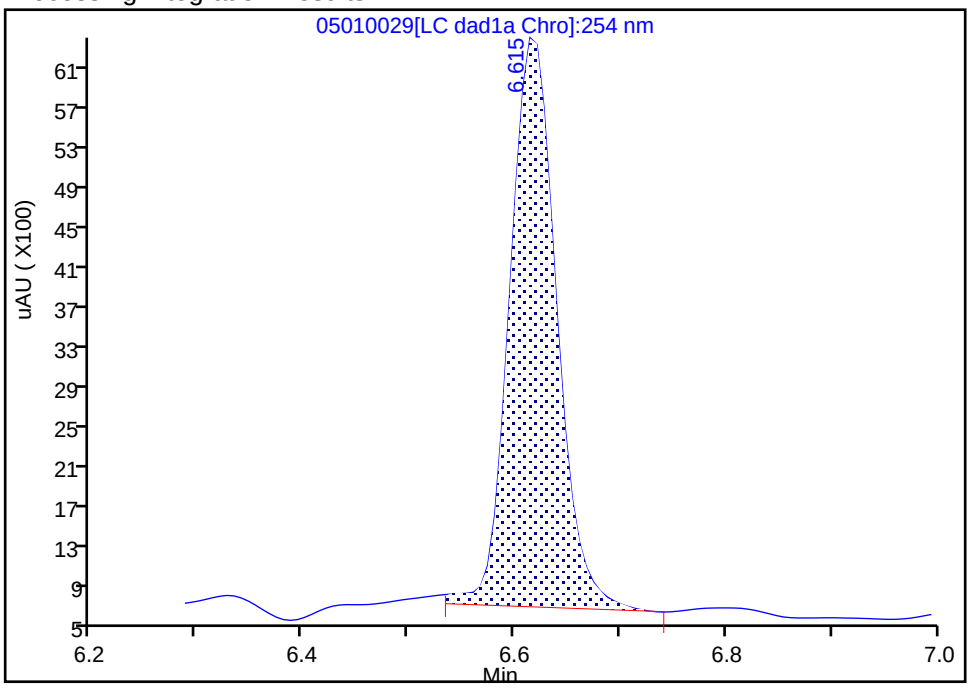
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010029.d				
Injection Date:	11-May-2024 15:39:40	Instrument ID:	CHHPLC_X3		
Lims ID:	LCS 280-652898/2-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

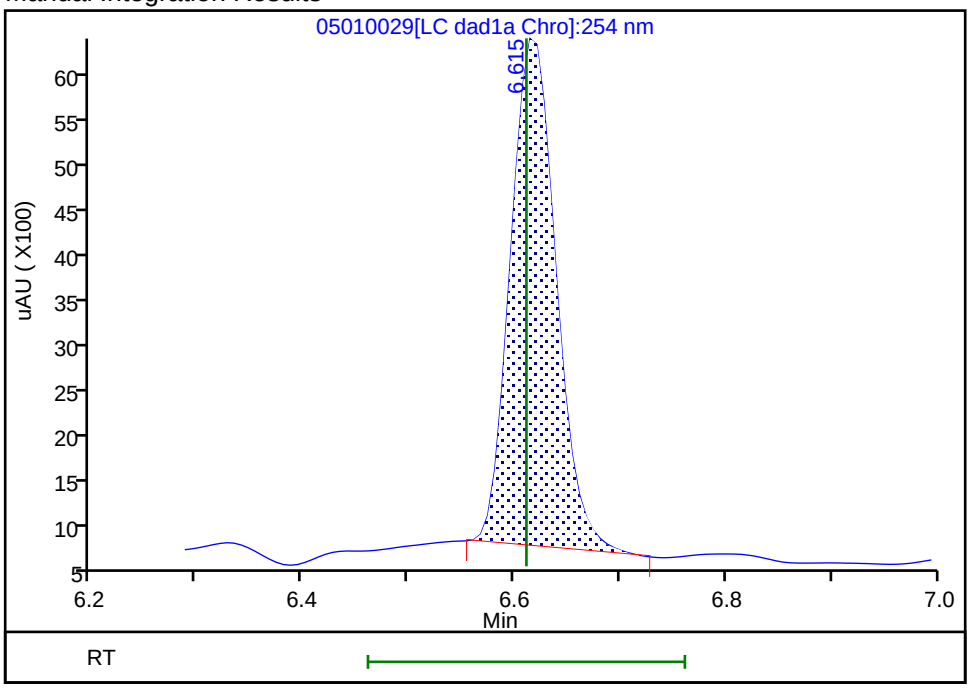
Processing Integration Results

RT: 6.61
Area: 17665
Amount: 0.184889
Amount Units: ug/mL



Manual Integration Results

RT: 6.61
Area: 16958
Amount: 0.177489
Amount Units: ug/mL



Reviewer: LV5D, 14-May-2024 12:41:45 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-653565/2-A

Matrix: Water | Lab File ID: 05170041.D

Analysis Method: 8330B | Date Collected:

Extraction Method: 3535 | Date Extracted: 05/17/2024 13:10

Sample wt/vol: 500(mL) | Date Analyzed: 05/18/2024 02:29

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 100(uL) | GC Column: UltraCarb5uODS ID: 4.6(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653871 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	2.12		0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	2.00		0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	1.95		0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	1.95		0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	1.93		0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	2.00		0.11	0.10	0.051
88-72-2	2-Nitrotoluene	1.63		0.21	0.20	0.086
99-08-1	3-Nitrotoluene	1.62		0.40	0.35	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	2.02		0.15	0.12	0.058
99-99-0	4-Nitrotoluene	1.60		0.41	0.40	0.10
2691-41-0	HMX	1.76	M	0.21	0.20	0.088
98-95-3	Nitrobenzene	1.81		0.21	0.20	0.091
55-63-0	Nitroglycerin	20.4		2.1	2.0	0.92
78-11-5	PETN	21.6		1.1	1.0	0.45
121-82-4	RDX	1.91		0.21	0.20	0.052
479-45-8	Tetryl	1.89		0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	104		83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\05170041.D
Lims ID: LCS 280-653565/2-A
Client ID:
Sample Type: LCS
Inject. Date: 18-May-2024 02:29:18 ALS Bottle#: 41 Worklist Smp#: 41
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCS 280-653565/2-A
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-May-2024 10:51:45 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1674

First Level Reviewer: LV5D Date: 18-May-2024 10:34:46

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
4 HMX	1	6.619	6.617	0.002	16792	0.2000	0.1758	M
8 RDX	1	7.619	7.630	-0.011	21205	0.2000	0.1914	
9 2,4,6-Trinitrophenol	1	7.845	7.863	-0.018	16086	0.2000	0.2028	
$ 10 1,2-Dinitrobenzene	1	8.545	8.557	-0.012	27549	0.2000	0.2086	
11 1,3,5-Trinitrobenzene	1	8.685	8.697	-0.012	47237	0.2000	0.2120	
12 1,3-Dinitrobenzene	1	9.292	9.310	-0.018	59768	0.2000	0.1996	
13 Nitrobenzene	1	9.652	9.670	-0.018	35608	0.2000	0.1814	
14 3,5-Dinitroaniline	1	9.878	9.890	-0.012	43583	0.2000	0.1983	
15 Tetryl	1	9.958	9.983	-0.025	34323	0.2000	0.1890	
16 Nitroglycerin	2	10.432	10.457	-0.025	135518	2.00	2.04	
17 2,4,6-Trinitrotoluene	1	10.865	10.883	-0.018	41998	0.2000	0.1952	
18 4-Amino-2,6-dinitrotoluene	1	11.025	11.043	-0.018	30266	0.2000	0.2018	
19 2-Amino-4,6-dinitrotoluene	1	11.278	11.297	-0.019	39936	0.2000	0.1999	
20 2,6-Dinitrotoluene	1	11.432	11.450	-0.018	28401	0.2000	0.1933	
21 2,4-Dinitrotoluene	1	11.605	11.623	-0.018	56853	0.2000	0.1948	
22 o-Nitrotoluene	1	12.378	12.410	-0.032	21066	0.2000	0.1629	
23 p-Nitrotoluene	1	12.792	12.823	-0.031	18034	0.2000	0.1599	
24 m-Nitrotoluene	1	13.338	13.370	-0.032	23310	0.2000	0.1618	
25 PETN	2	14.385	14.437	-0.052	155447	2.00	2.16	
26 Ammonium Picrate	1		0.000			ND	ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

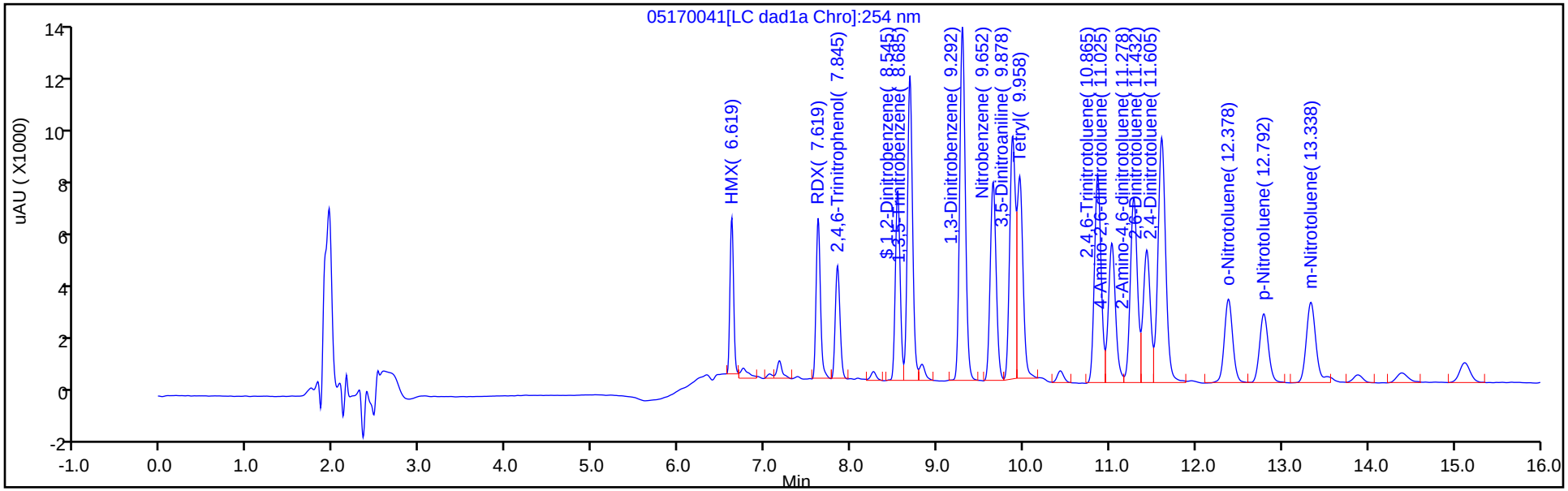
Report Date: 18-May-2024 10:51:46 Chrom Revision: 2.3 14-May-2024 14:23:08

Eurofins Denver

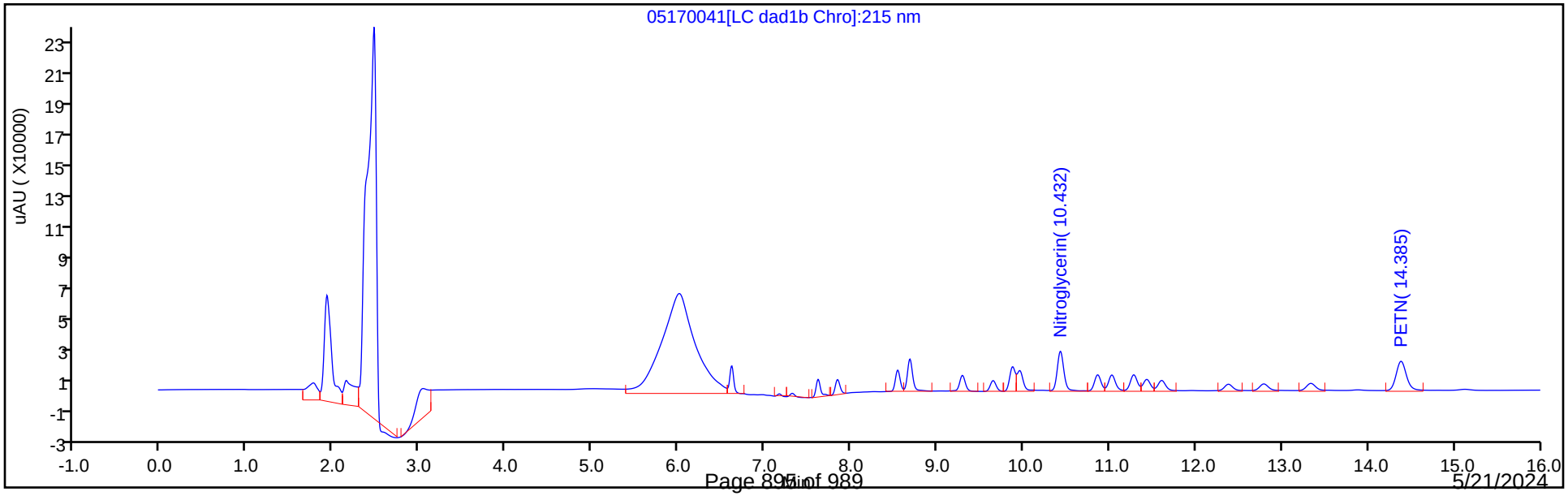
Data File: \\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170041.d

Injection Date:	18-May-2024 02:29:18	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCS 280-653565/2-A			Worklist Smp#:	41
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	41
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\05170041.D				
Lims ID:	LCS 280-653565/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	18-May-2024 02:29:18	ALS Bottle#:	41	Worklist Smp#:	41
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 280-653565/2-A				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	18-May-2024 10:51:45	Calib Date:	18-Apr-2024 03:08:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1674				

First Level Reviewer: LV5D Date: 18-May-2024 10:34:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2086	104.29

Manual Integration/User Assign Peak Report

Eurofins Denver

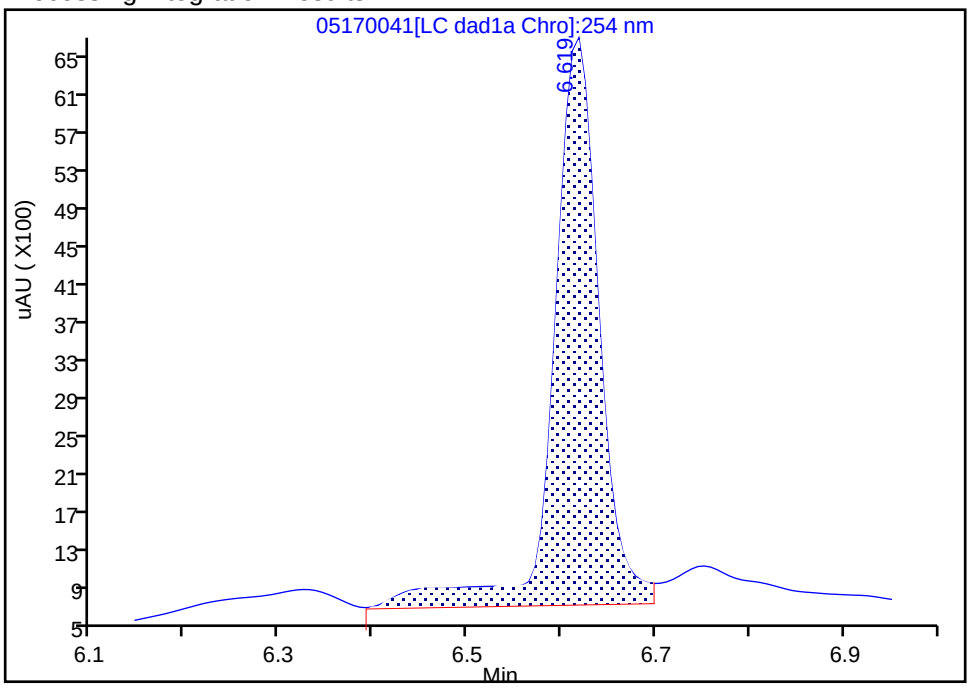
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170041.d				
Injection Date:	18-May-2024 02:29:18	Instrument ID:	CHHPLC_X3		
Lims ID:	LCS 280-653565/2-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	41	Worklist Smp#:	41
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

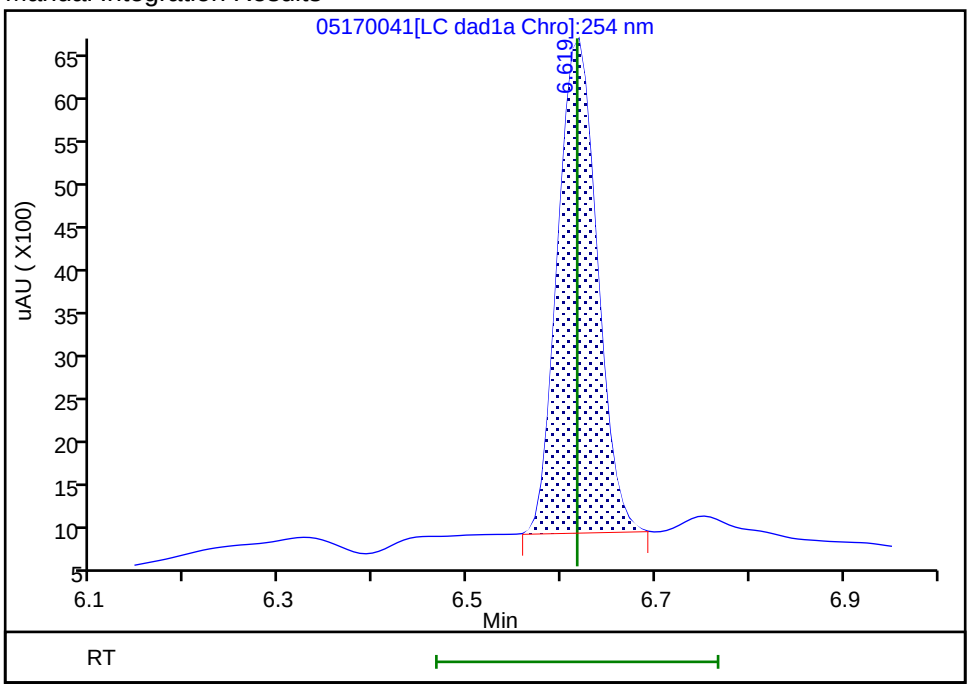
Processing Integration Results

RT: 6.62
Area: 20298
Amount: 0.212447
Amount Units: ug/mL



Manual Integration Results

RT: 6.62
Area: 16792
Amount: 0.175752
Amount Units: ug/mL



Reviewer: LV5D, 18-May-2024 10:34:45 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-652898/3-A

Matrix: Water | Lab File ID: 05010030.D

Analysis Method: 8330B | Date Collected:

Extraction Method: 3535 | Date Extracted: 05/10/2024 10:58

Sample wt/vol: 500(mL) | Date Analyzed: 05/11/2024 16:02

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 100(uL) | GC Column: UltraCarb5uODS ID: 4.6(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653063 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	2.05		0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	1.85		0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	1.81		0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	1.77		0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	1.78		0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	1.81		0.11	0.10	0.051
88-72-2	2-Nitrotoluene	1.40		0.21	0.20	0.086
99-08-1	3-Nitrotoluene	1.31	Q	0.40	0.35	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.86		0.15	0.12	0.058
99-99-0	4-Nitrotoluene	1.33	Q	0.41	0.40	0.10
2691-41-0	HMX	1.74	M	0.21	0.20	0.088
98-95-3	Nitrobenzene	1.63		0.21	0.20	0.091
55-63-0	Nitroglycerin	19.6		2.1	2.0	0.92
78-11-5	PETN	20.4		1.1	1.0	0.45
121-82-4	RDX	1.78		0.21	0.20	0.052
479-45-8	Tetryl	1.83		0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	93		83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\05010030.D
Lims ID: LCSD 280-652898/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 11-May-2024 16:02:37 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 280-652898/3-A
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 14-May-2024 14:09:25 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1620

First Level Reviewer: LV5D Date: 14-May-2024 12:41:52

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
4 HMX	1	6.613	6.611	0.002	16593	0.2000	0.1737	M
8 RDX	1	7.633	7.631	0.002	19758	0.2000	0.1784	
9 2,4,6-Trinitrophenol	1	7.840	7.845	-0.005	16003	0.2000	0.2017	
$ 10 1,2-Dinitrobenzene	1	8.560	8.565	-0.005	24676	0.2000	0.1868	
11 1,3,5-Trinitrobenzene	1	8.700	8.705	-0.005	45661	0.2000	0.2049	
12 1,3-Dinitrobenzene	1	9.307	9.318	-0.011	55347	0.2000	0.1848	
13 Nitrobenzene	1	9.667	9.671	-0.004	31935	0.2000	0.1627	
14 3,5-Dinitroaniline	1	9.893	9.904	-0.011	39091	0.2000	0.1780	
15 Tetryl	1	9.973	9.991	-0.018	33238	0.2000	0.1830	
16 Nitroglycerin	2	10.440	10.458	-0.018	130584	2.00	1.96	
17 2,4,6-Trinitrotoluene	1	10.873	10.891	-0.018	38998	0.2000	0.1812	
18 4-Amino-2,6-dinitrotoluene	1	11.040	11.064	-0.024	27864	0.2000	0.1858	
19 2-Amino-4,6-dinitrotoluene	1	11.293	11.318	-0.025	36186	0.2000	0.1811	
20 2,6-Dinitrotoluene	1	11.440	11.464	-0.024	26224	0.2000	0.1785	
21 2,4-Dinitrotoluene	1	11.613	11.638	-0.025	51519	0.2000	0.1765	
22 o-Nitrotoluene	1	12.393	12.418	-0.025	18057	0.2000	0.1396	
23 p-Nitrotoluene	1	12.807	12.831	-0.024	15018	0.2000	0.1331	
24 m-Nitrotoluene	1	13.353	13.371	-0.018	18847	0.2000	0.1308	
25 PETN	2	14.393	14.418	-0.025	146487	2.00	2.04	
26 Ammonium Picrate	1		0.000			ND	ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

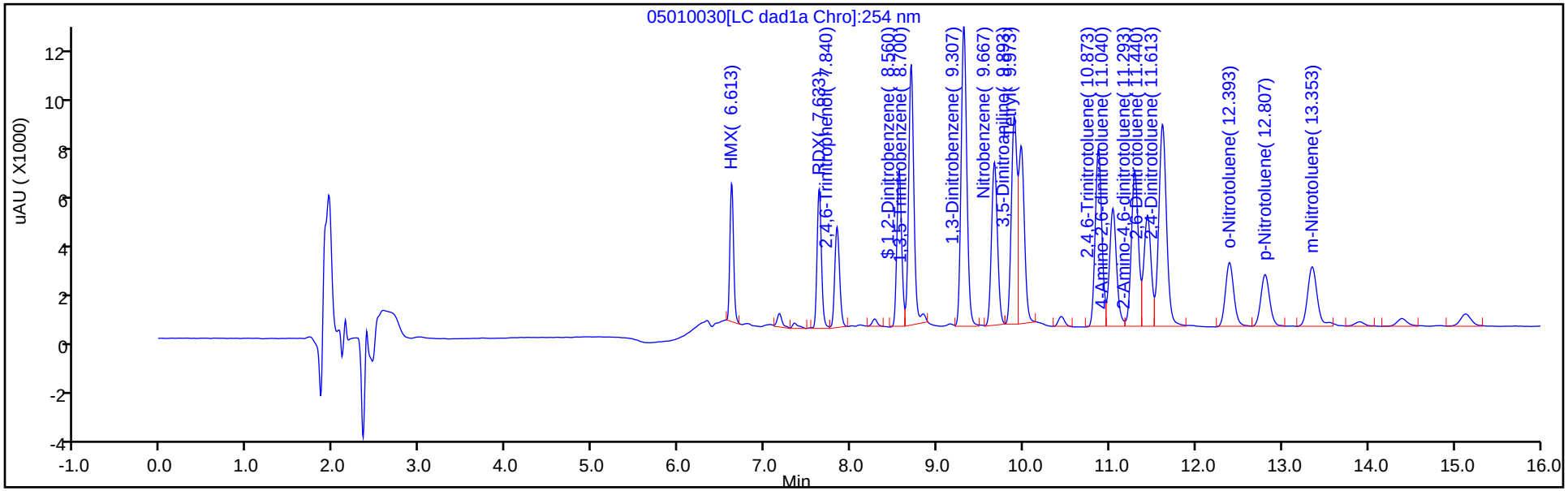
Report Date: 14-May-2024 14:09:28 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

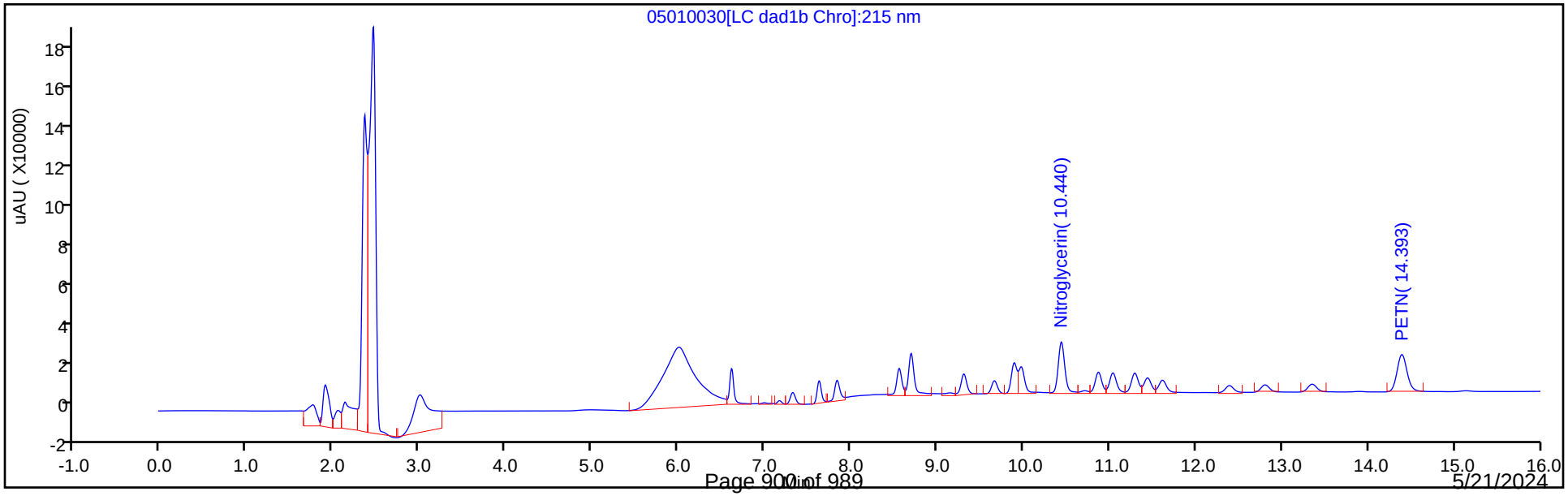
Data File: \\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010030.d

Injection Date:	11-May-2024 16:02:37	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCSD 280-652898/3-A			Worklist Smp#:	30
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\05010030.D				
Lims ID:	LCSD 280-652898/3-A				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	11-May-2024 16:02:37	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCSD 280-652898/3-A				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20240511-133284.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	14-May-2024 14:09:25	Calib Date:	18-Apr-2024 03:08:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1620				

First Level Reviewer: LV5D Date: 14-May-2024 12:41:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1868	93.38

Manual Integration/User Assign Peak Report

Eurofins Denver

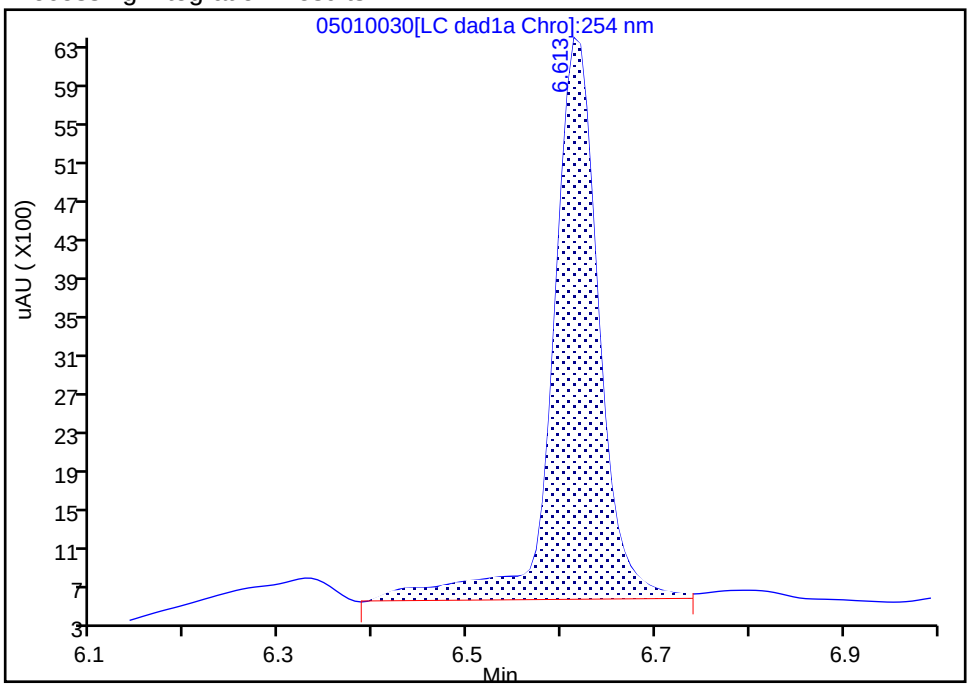
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240511-133284.b\05010030.d				
Injection Date:	11-May-2024 16:02:37	Instrument ID:	CHHPLC_X3		
Lims ID:	LCSD 280-652898/3-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

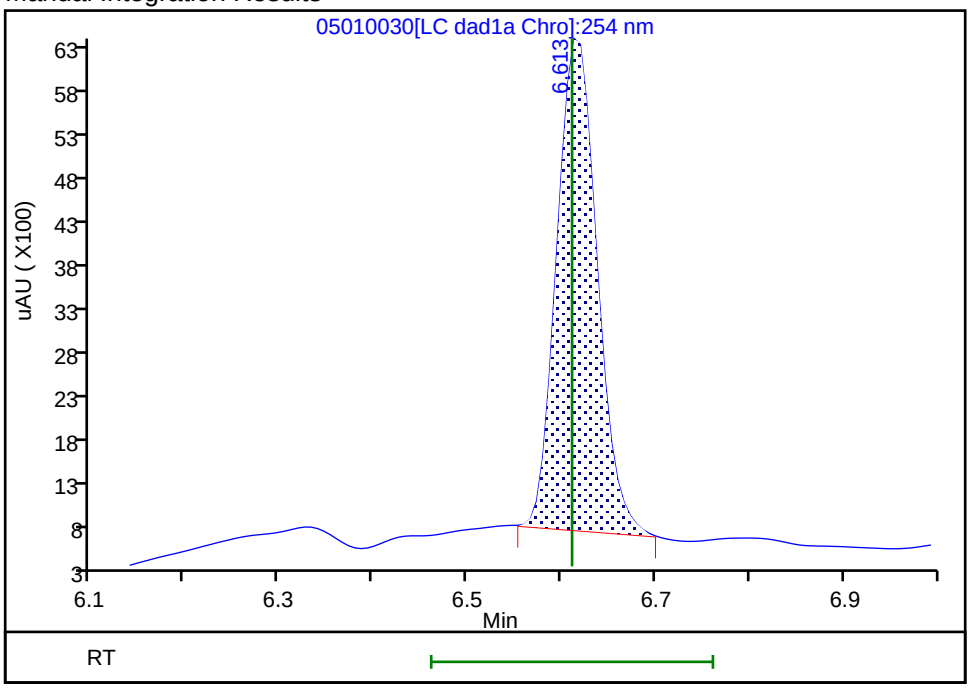
Processing Integration Results

RT: 6.61
Area: 19847
Amount: 0.207727
Amount Units: ug/mL



Manual Integration Results

RT: 6.61
Area: 16593
Amount: 0.173669
Amount Units: ug/mL



Reviewer: LV5D, 14-May-2024 12:41:50 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-653565/3-A

Matrix: Water | Lab File ID: 05170042.D

Analysis Method: 8330B | Date Collected:

Extraction Method: 3535 | Date Extracted: 05/17/2024 13:10

Sample wt/vol: 500(mL) | Date Analyzed: 05/18/2024 02:52

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 100(uL) | GC Column: UltraCarb5uODS ID: 4.6(mm)

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653871 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	2.12		0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	1.95		0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	1.91		0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	1.86		0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	1.89		0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	1.88		0.11	0.10	0.051
88-72-2	2-Nitrotoluene	1.49		0.21	0.20	0.086
99-08-1	3-Nitrotoluene	1.47		0.40	0.35	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.94		0.15	0.12	0.058
99-99-0	4-Nitrotoluene	1.46		0.41	0.40	0.10
2691-41-0	HMX	1.75	M	0.21	0.20	0.088
98-95-3	Nitrobenzene	1.73		0.21	0.20	0.091
55-63-0	Nitroglycerin	20.4		2.1	2.0	0.92
78-11-5	PETN	21.4		1.1	1.0	0.45
121-82-4	RDX	1.90		0.21	0.20	0.052
479-45-8	Tetryl	2.01		0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	95		83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\05170042.D
Lims ID: LCSD 280-653565/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 18-May-2024 02:52:15 ALS Bottle#: 42 Worklist Smp#: 42
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 280-653565/3-A
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 18-May-2024 10:51:45 Calib Date: 18-Apr-2024 03:08:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1674

First Level Reviewer: LV5D Date: 18-May-2024 10:34:51

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
4 HMX	1	6.616	6.617	-0.001	16700	0.2000	0.1748	M
8 RDX	1	7.622	7.630	-0.008	21033	0.2000	0.1899	
9 2,4,6-Trinitrophenol	1	7.849	7.863	-0.014	16028	0.2000	0.2021	
$ 10 1,2-Dinitrobenzene	1	8.542	8.557	-0.015	24988	0.2000	0.1891	
11 1,3,5-Trinitrobenzene	1	8.682	8.697	-0.015	47214	0.2000	0.2119	
12 1,3-Dinitrobenzene	1	9.295	9.310	-0.015	58247	0.2000	0.1945	
13 Nitrobenzene	1	9.649	9.670	-0.021	34026	0.2000	0.1733	
14 3,5-Dinitroaniline	1	9.875	9.890	-0.015	39828	0.2000	0.1813	
15 Tetryl	1	9.955	9.983	-0.028	36463	0.2000	0.2008	
16 Nitroglycerin	2	10.422	10.457	-0.035	135897	2.00	2.04	
17 2,4,6-Trinitrotoluene	1	10.855	10.883	-0.028	41018	0.2000	0.1906	
18 4-Amino-2,6-dinitrotoluene	1	11.015	11.043	-0.028	29118	0.2000	0.1942	
19 2-Amino-4,6-dinitrotoluene	1	11.269	11.297	-0.028	37547	0.2000	0.1879	
20 2,6-Dinitrotoluene	1	11.422	11.450	-0.028	27737	0.2000	0.1888	
21 2,4-Dinitrotoluene	1	11.595	11.623	-0.028	54425	0.2000	0.1865	
22 o-Nitrotoluene	1	12.369	12.410	-0.041	19302	0.2000	0.1493	
23 p-Nitrotoluene	1	12.782	12.823	-0.041	16431	0.2000	0.1457	
24 m-Nitrotoluene	1	13.329	13.370	-0.041	21138	0.2000	0.1467	
25 PETN	2	14.375	14.437	-0.062	153945	2.00	2.14	
26 Ammonium Picrate	1		0.000			ND	ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

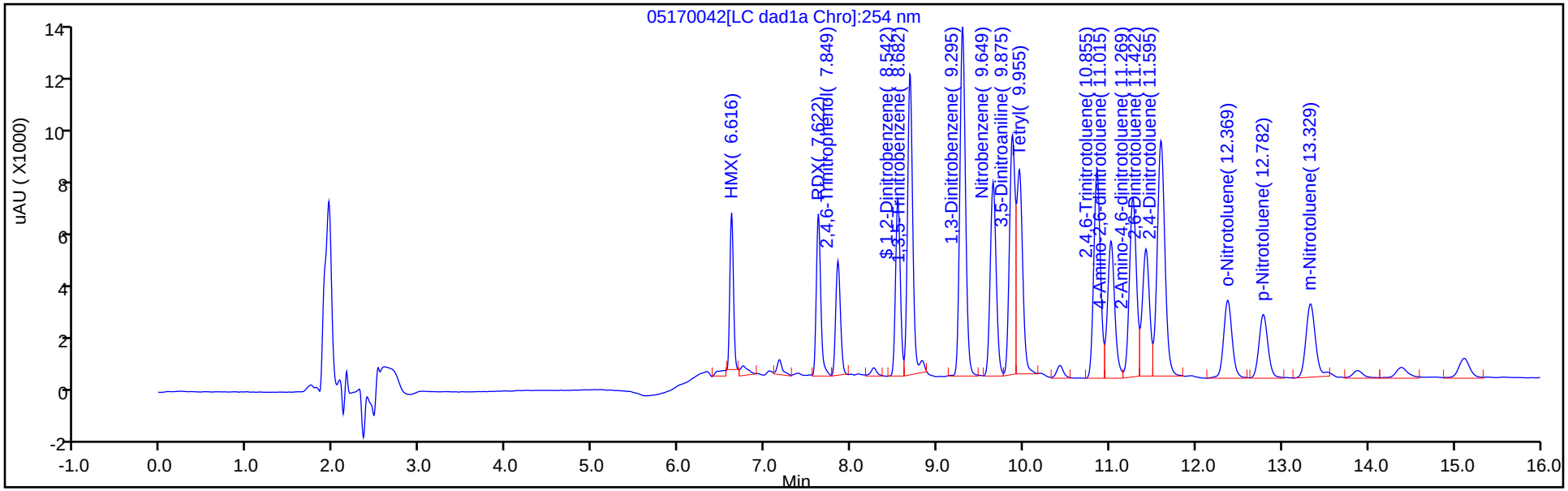
Report Date: 18-May-2024 10:51:47 Chrom Revision: 2.3 14-May-2024 14:23:08

Eurofins Denver

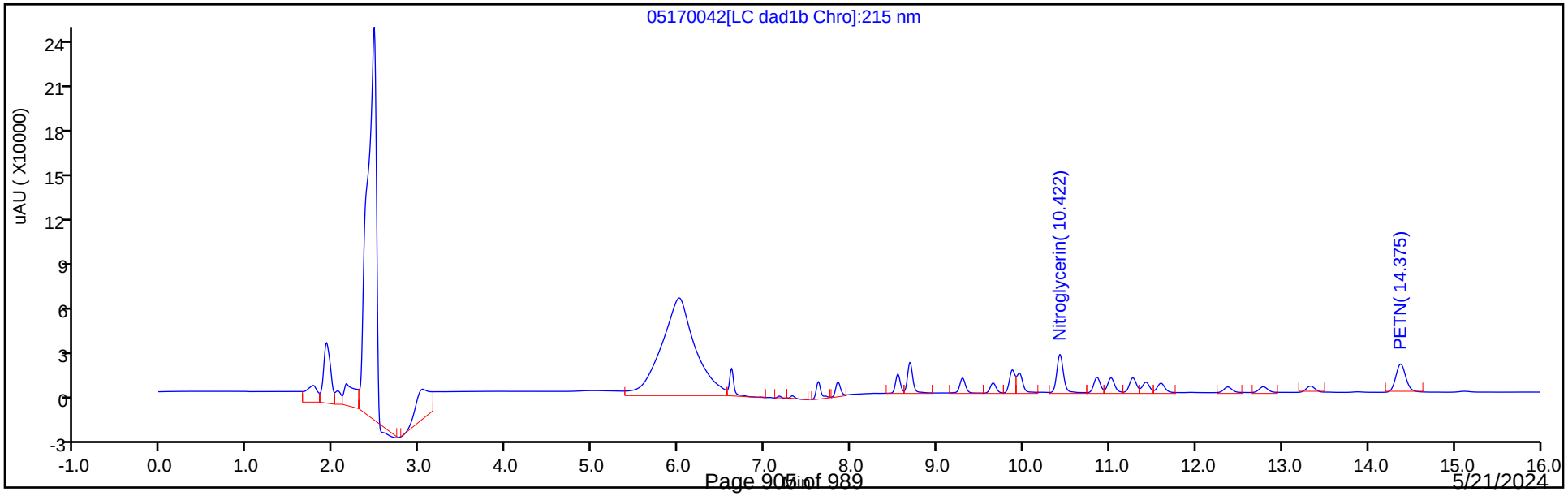
Data File: \\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170042.d

Injection Date:	18-May-2024 02:52:15	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCSD 280-653565/3-A			Worklist Smp#:	42
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	42
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



5/21/2024
3:57:23 PM

Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\05170042.D				
Lims ID:	LCSD 280-653565/3-A				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	18-May-2024 02:52:15	ALS Bottle#:	42	Worklist Smp#:	42
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCSD 280-653565/3-A				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20240517-133518.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	18-May-2024 10:51:45	Calib Date:	18-Apr-2024 03:08:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20240417-132364.b\04170028.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1674				

First Level Reviewer: LV5D Date: 18-May-2024 10:34:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1891	94.56

Manual Integration/User Assign Peak Report

Eurofins Denver

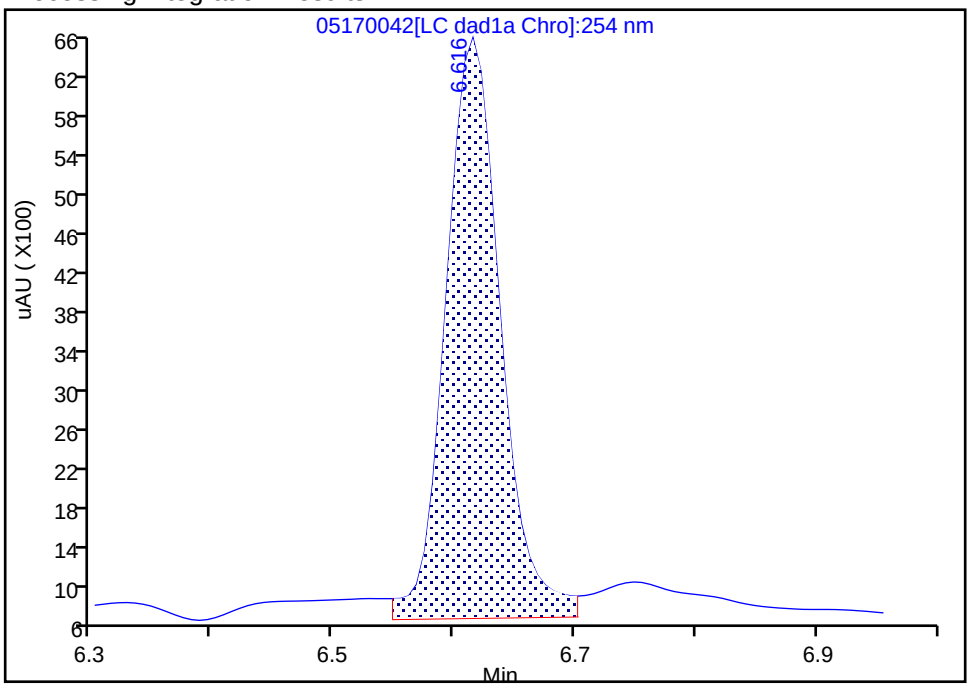
Data File:	\\chromfs\denver\chromdata\chhplc_x\20240517-133518.b\05170042.d				
Injection Date:	18-May-2024 02:52:15	Instrument ID:	CHHPLC_X3		
Lims ID:	LCSD 280-653565/3-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	42	Worklist Smp#:	42
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

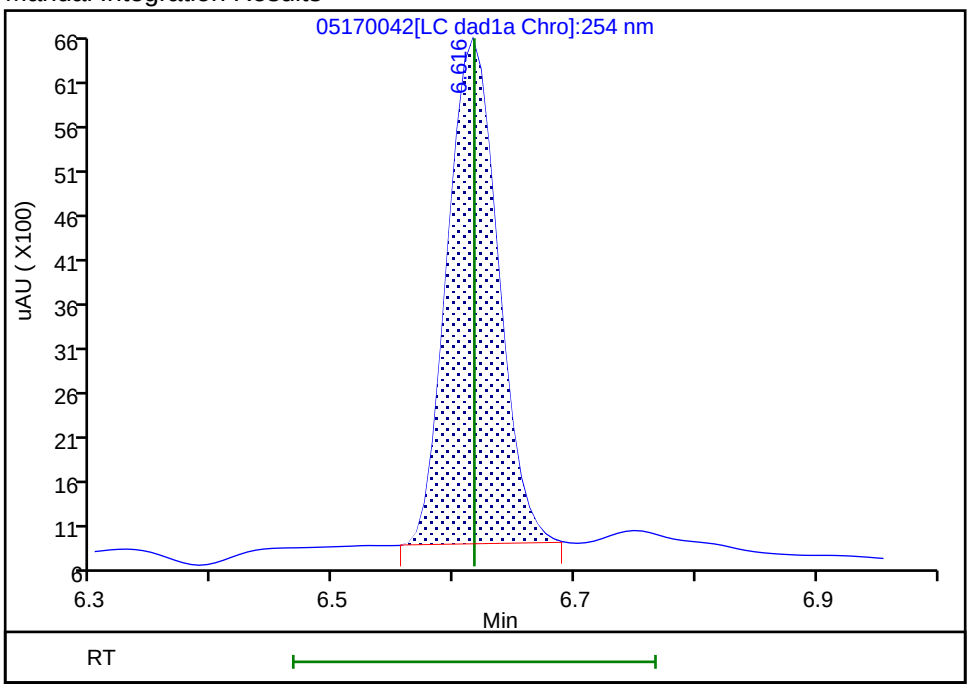
Processing Integration Results

RT: 6.62
Area: 18672
Amount: 0.195429
Amount Units: ug/mL



Manual Integration Results

RT: 6.62
Area: 16700
Amount: 0.174789
Amount Units: ug/mL



Reviewer: LV5D, 18-May-2024 10:34:50 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: CHHPLC_X5 Start Date: 03/27/2024 19:58

Analysis Batch Number: 647408 End Date: 03/28/2024 06:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 280-647408/10		03/27/2024 19:58	1	03270010.D	Luna-phenylhex 4.6(mm)
IC 280-647408/11		03/27/2024 20:33	1	03270011.D	Luna-phenylhex 4.6(mm)
IC 280-647408/12		03/27/2024 21:08	1	03270012.D	Luna-phenylhex 4.6(mm)
IC 280-647408/13		03/27/2024 21:43	1	03270013.D	Luna-phenylhex 4.6(mm)
IC 280-647408/14		03/27/2024 22:18	1	03270014.D	Luna-phenylhex 4.6(mm)
IC 280-647408/15		03/27/2024 22:53	1	03270015.D	Luna-phenylhex 4.6(mm)
IC 280-647408/16		03/27/2024 23:28	1	03270016.D	Luna-phenylhex 4.6(mm)
IC 280-647408/17		03/28/2024 00:03	1	03270017.D	Luna-phenylhex 4.6(mm)
IC 280-647408/18		03/28/2024 00:38	1	03270018.D	Luna-phenylhex 4.6(mm)
ICV 280-647408/19		03/28/2024 01:13	1	03270019.D	Luna-phenylhex 4.6(mm)
IC 280-647408/20		03/28/2024 01:48	1		Luna-phenylhex 4.6(mm)
IC 280-647408/21		03/28/2024 02:23	1		Luna-phenylhex 4.6(mm)
IC 280-647408/22		03/28/2024 02:58	1		Luna-phenylhex 4.6(mm)
IC 280-647408/23		03/28/2024 03:33	1		Luna-phenylhex 4.6(mm)
IC 280-647408/24		03/28/2024 04:08	1		Luna-phenylhex 4.6(mm)
IC 280-647408/25		03/28/2024 04:43	1		Luna-phenylhex 4.6(mm)
IC 280-647408/26		03/28/2024 05:18	1		Luna-phenylhex 4.6(mm)
IC 280-647408/27		03/28/2024 05:53	1		Luna-phenylhex 4.6(mm)
ICV 280-647408/28		03/28/2024 06:27	1		Luna-phenylhex 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 04/17/2024 20:37

Analysis Batch Number: 649950 End Date: 04/18/2024 03:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 280-649950/11		04/17/2024 20:37	1	04170011.D	UltraCarb5uODS 4.6(mm)
IC 280-649950/12		04/17/2024 21:00	1	04170012.D	UltraCarb5uODS 4.6(mm)
IC 280-649950/13		04/17/2024 21:23	1	04170013.D	UltraCarb5uODS 4.6(mm)
IC 280-649950/14		04/17/2024 21:46	1	04170014.D	UltraCarb5uODS 4.6(mm)
IC 280-649950/15		04/17/2024 22:09	1	04170015.D	UltraCarb5uODS 4.6(mm)
IC 280-649950/16		04/17/2024 22:32	1	04170016.D	UltraCarb5uODS 4.6(mm)
IC 280-649950/17		04/17/2024 22:55	1	04170017.D	UltraCarb5uODS 4.6(mm)
IC 280-649950/18		04/17/2024 23:18	1	04170018.D	UltraCarb5uODS 4.6(mm)
IC 280-649950/19		04/17/2024 23:41	1	04170019.D	UltraCarb5uODS 4.6(mm)
ICV 280-649950/20		04/18/2024 00:04	1	04170020.D	UltraCarb5uODS 4.6(mm)
IC 280-649950/21		04/18/2024 00:27	1		UltraCarb5uODS 4.6(mm)
IC 280-649950/22		04/18/2024 00:50	1		UltraCarb5uODS 4.6(mm)
IC 280-649950/23		04/18/2024 01:13	1		UltraCarb5uODS 4.6(mm)
IC 280-649950/24		04/18/2024 01:36	1		UltraCarb5uODS 4.6(mm)
IC 280-649950/25		04/18/2024 01:59	1		UltraCarb5uODS 4.6(mm)
IC 280-649950/26		04/18/2024 02:22	1		UltraCarb5uODS 4.6(mm)
IC 280-649950/27		04/18/2024 02:45	1		UltraCarb5uODS 4.6(mm)
IC 280-649950/28		04/18/2024 03:08	1		UltraCarb5uODS 4.6(mm)
ICV 280-649950/29		04/18/2024 03:30	1		UltraCarb5uODS 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 05/11/2024 14:53

Analysis Batch Number: 653063 End Date: 05/11/2024 22:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-653063/7		05/11/2024 14:53	1	05010007.D	UltraCarb5uODS 4.6(mm)
MB 280-652898/1-A		05/11/2024 15:16	1	05010028.D	UltraCarb5uODS 4.6(mm)
LCS 280-652898/2-A		05/11/2024 15:39	1	05010029.D	UltraCarb5uODS 4.6(mm)
LCSD 280-652898/3-A		05/11/2024 16:02	1	05010030.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		05/11/2024 16:25	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/11/2024 16:48	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/11/2024 17:11	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/11/2024 17:34	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/11/2024 17:57	1		UltraCarb5uODS 4.6(mm)
280-191168-2	FWGmw-021-240401-GW	05/11/2024 18:20	1	05010036.D	UltraCarb5uODS 4.6(mm)
280-191168-3	FWGmw-024-240401-GW	05/11/2024 18:43	1	05010037.D	UltraCarb5uODS 4.6(mm)
CCV 280-653063/38		05/11/2024 19:06	1	05010038.D	UltraCarb5uODS 4.6(mm)
280-191168-4	LL3mw-245-240401-GW	05/11/2024 19:29	1	05010039.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		05/11/2024 19:52	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/11/2024 20:15	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/11/2024 20:38	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/11/2024 21:01	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/11/2024 21:24	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/11/2024 21:47	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/11/2024 22:10	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/11/2024 22:33	1		UltraCarb5uODS 4.6(mm)
CCV 280-653063/48		05/11/2024 22:56	1	05010048.D	UltraCarb5uODS 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: CHHPLC_X5 Start Date: 05/11/2024 17:27

Analysis Batch Number: 653069 End Date: 05/12/2024 05:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-653069/7		05/11/2024 17:27	1	05110007.D	Luna-phenylhex 4.6(mm)
ZZZZZ		05/11/2024 18:02	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/11/2024 18:37	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/11/2024 19:12	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/11/2024 20:57	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/11/2024 21:32	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/11/2024 22:07	1		Luna-phenylhex 4.6(mm)
280-191168-2	FWGmw-021-240401-GW	05/11/2024 22:42	1	05110018.D	Luna-phenylhex 4.6(mm)
CCV 280-653069/20		05/11/2024 23:51	1	05110020.D	Luna-phenylhex 4.6(mm)
ZZZZZ		05/12/2024 01:01	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/12/2024 01:36	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/12/2024 02:11	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/12/2024 02:46	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/12/2024 03:21	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/12/2024 03:56	1		Luna-phenylhex 4.6(mm)
CCV 280-653069/30		05/12/2024 05:41	1		Luna-phenylhex 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 05/18/2024 01:43

Analysis Batch Number: 653871 End Date: 05/18/2024 08:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-653871/39		05/18/2024 01:43	1	05170039.D	UltraCarb5uODS 4.6(mm)
MB 280-653565/1-A		05/18/2024 02:06	1	05170040.D	UltraCarb5uODS 4.6(mm)
LCS 280-653565/2-A		05/18/2024 02:29	1	05170041.D	UltraCarb5uODS 4.6(mm)
LCSD 280-653565/3-A		05/18/2024 02:52	1	05170042.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		05/18/2024 03:15	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/18/2024 03:38	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/18/2024 04:01	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/18/2024 04:24	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/18/2024 04:46	1		UltraCarb5uODS 4.6(mm)
280-191168-2 RE	FWGmw-021-240401-GW RE	05/18/2024 05:09	1	05170048.D	UltraCarb5uODS 4.6(mm)
280-191168-3 RE	FWGmw-024-240401-GW RE	05/18/2024 05:32	1	05170049.D	UltraCarb5uODS 4.6(mm)
CCV 280-653871/50		05/18/2024 05:55	1	05170050.D	UltraCarb5uODS 4.6(mm)
280-191168-4 RE	LL3mw-245-240401-GW RE	05/18/2024 06:18	1	05170051.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		05/18/2024 06:41	20		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/18/2024 07:04	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/18/2024 07:27	20		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/18/2024 07:50	20		UltraCarb5uODS 4.6(mm)
CCV 280-653871/56		05/18/2024 08:13	1	05170056.D	UltraCarb5uODS 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: CHHPLC_X5 Start Date: 05/17/2024 17:49

Analysis Batch Number: 653873 End Date: 05/18/2024 03:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-653873/7		05/17/2024 17:49	1	05170007.D	Luna-phenylhex 4.6(mm)
ZZZZZ		05/17/2024 18:24	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/17/2024 18:59	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/17/2024 19:34	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/17/2024 20:44	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/17/2024 21:19	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/17/2024 21:54	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/17/2024 22:29	1		Luna-phenylhex 4.6(mm)
280-191168-2 RE	FWGmw-021-240401-GW RE	05/17/2024 23:04	1	05170018.D	Luna-phenylhex 4.6(mm)
CCV 280-653873/20		05/18/2024 00:14	1	05170020.D	Luna-phenylhex 4.6(mm)
ZZZZZ		05/18/2024 01:24	20		Luna-phenylhex 4.6(mm)
ZZZZZ		05/18/2024 01:59	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/18/2024 02:34	20		Luna-phenylhex 4.6(mm)
ZZZZZ		05/18/2024 03:09	20		Luna-phenylhex 4.6(mm)
CCV 280-653873/26		05/18/2024 03:43	1		Luna-phenylhex 4.6(mm)

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Batch Number: 647408 Batch Start Date: 03/27/24 19:58 Batch Analyst: Zhang, Jian

Batch Method: 8330B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	8330 LCS 00134	8330IntermStk 00079	8330Surrogate 00154		
IC 280-647408/10		8330B			1 mL		250 uL			
IC 280-647408/11		8330B			1 mL		100 uL			
IC 280-647408/12		8330B			1 mL		70 uL			
IC 280-647408/13		8330B			1 mL		40 uL			
IC 280-647408/14		8330B			1 mL		25 uL			
IC 280-647408/15		8330B			1 mL		10 uL			
IC 280-647408/16		8330B			1 mL		5 uL			
IC 280-647408/17		8330B			1 mL		2 uL			
IC 280-647408/18		8330B			1 mL		1 uL			
ICV 280-647408/19		8330B			1 mL	50 uL		50 uL		

Batch Notes	
Methanol ID	233990

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.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Batch Number: 649950 Batch Start Date: 04/17/24 20:37 Batch Analyst: Zhang, Jian

Batch Method: 8330B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	8330 DMT 00016	8330 LCS 00134	8330_OP_DMT 00026	8330IntermStk 00080	8330Surrogate 00154
IC 280-649950/11		8330B			1 mL	125 uL			250 uL	
IC 280-649950/12		8330B			1 mL	50 uL			100 uL	
IC 280-649950/13		8330B			1 mL	35 uL			70 uL	
IC 280-649950/14		8330B			1 mL	20 uL			40 uL	
IC 280-649950/15		8330B			1 mL	12.5 uL			25 uL	
IC 280-649950/16		8330B			1 mL	5 uL			10 uL	
IC 280-649950/17		8330B			1 mL	2.5 uL			5 uL	
IC 280-649950/18		8330B			1 mL	1 uL			2 uL	
IC 280-649950/19		8330B			1 mL	0.5 uL			1 uL	
ICV 280-649950/20		8330B			1 mL		50 uL	50 uL		50 uL

Batch Notes	
Methanol ID	233990

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.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Batch Number: 652898 Batch Start Date: 05/10/24 10:58 Batch Analyst: Alwes, Ashley A

Batch Method: 3535 Batch End Date: 05/10/24 13:51

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	8330 LCS 00135	8330Surrogate 00155
MB 280-652898/1		3535, 8330B					500 mL	5 mL		0.1 mL
LCS 280-652898/2		3535, 8330B					500 mL	5 mL	0.1 mL	0.1 mL
LCSD 280-652898/3		3535, 8330B					500 mL	5 mL	0.1 mL	0.1 mL
280-191168-A-2	FWGmw-021-240401-GW	3535, 8330B	Water	T	761.3 g	286.5 g	474.8 mL	5 mL		0.1 mL
280-191168-A-3	FWGmw-024-240401-GW	3535, 8330B	Water	T	762.7 g	282.5 g	480.2 mL	5 mL		0.1 mL
280-191168-A-4	LL3mw-245-240401-GW	3535, 8330B	Water	T	741.9 g	277.6 g	464.3 mL	5 mL		0.1 mL

Batch Notes	
First Start time	05/10/2024 11:15
First End time	05/10/2024 13:02
SPE Cartridge Type	Sep-Pak Porapak Rdx
SPE Cartridge Lot ID	005434002A
Balance ID	24350888
Balance is Level? (Y/N)	yes
Manifold ID	Manifold: A
QC Bottle Lot ID	0202401I
Pipette/Syringe/Dispenser ID	Dobby/ DOD/ Pugsley
Solvent Name	CaCl2
Solvent Lot #	CaCl2_Sol_00092
Rinse Solvent Name	Acetonitrile
Rinse Solvent Lot	Acetonitrile_00087
Acid Name	0.2% AAinACN
Acid ID	0.2% AAinACN_00004
Analyst ID - Spike Analyst	AA
Analyst ID - Spike Witness Analyst	Reviewer: DL
Batch Comment	DV-OP-0017

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.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Batch Number: 652898 Batch Start Date: 05/10/24 10:58 Batch Analyst: Alwes, Ashley A

Batch Method: 3535 Batch End Date: 05/10/24 13:51

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.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Batch Number: 653565 Batch Start Date: 05/17/24 13:10 Batch Analyst: Alwes, Ashley A

Batch Method: 3535 Batch End Date: 05/17/24 16:37

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	8330 LCS 00135	8330Surrogate 00155
MB 280-653565/1		3535, 8330B					500 mL	5 mL		0.1 mL
LCS 280-653565/2		3535, 8330B					500 mL	5 mL	0.1 mL	0.1 mL
LCSD 280-653565/3		3535, 8330B					500 mL	5 mL	0.1 mL	0.1 mL
280-191168-B-2	FWGmw-021-240401-GW	3535, 8330B	Water	T	726.1 g	281.6 g	444.5 mL	5 mL		0.1 mL
280-191168-B-3	FWGmw-024-240401-GW	3535, 8330B	Water	T	735.1 g	283.1 g	452 mL	5 mL		0.1 mL
280-191168-B-4	LL3mw-245-240401-GW	3535, 8330B	Water	T	715.8 g	278.9 g	436.9 mL	5 mL		0.1 mL

Batch Notes	
First Start time	05/17/2024 13:24
First End time	05/17/2024 15:29
SPE Cartridge Type	Sep-Pak Porapak Rdx
SPE Cartridge Lot ID	005434002A
Balance ID	834419814
Balance is Level? (Y/N)	yes
Manifold ID	Manifold: C
QC Bottle Lot ID	0202401I
Pipette/Syringe/Dispenser ID	Dobby/ DOD/ Pugsley
Solvent Name	CaCl2
Solvent Lot #	CaCl2_Sol_00092
Rinse Solvent Name	Acetonitrile
Rinse Solvent Lot	Acetonitrile_00087
Acid Name	0.2% AAinACN
Acid ID	0.2% AAinACN_00005
Analyst ID - Spike Analyst	MJ
Analyst ID - Spike Witness Analyst	Reviewer: EH
Batch Comment	DV-OP-0017; sodium chloride_29

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.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Batch Number: 653565 Batch Start Date: 05/17/24 13:10 Batch Analyst: Alwes, Ashley A

Batch Method: 3535 Batch End Date: 05/17/24 16:37

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.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job Number: 280-191168-1

SDG No.:

Project: RVAAP FWGW

Client Sample ID	Lab Sample ID
FWGmw-018-240401-GW	280-191168-1

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: FWGmw-018-240401-GW
Lab Sample ID: 280-191168-1
Lab Name: Eurofins Denver
Job No.: 280-191168-1
SDG ID.:
Matrix: Water
Date Sampled: 05/07/2024 09:25
Reporting Basis: WET
Date Received: 05/08/2024 10:25

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Nitrate as N	0.20	0.50	0.20	0.090	mg/L	U		1	9056

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Analyst: EJS Batch Start Date: 02/21/2024

Reporting Units: mg/L Analytical Batch No.: 643627

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
10	ICB	15:13	Nitrate as N	0.20				U	
9	ICV	17:46	Nitrate as N	4.05	4.00	101	90-110		IC ICV 5_00428

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Analyst: IRC Batch Start Date: 05/08/2024

Reporting Units: mg/L Analytical Batch No.: 652559

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	11:06	Nitrate as N	4.93	5.00	99	90-110		IC LCS_02037
2	CCB	11:23	Nitrate as N	0.20				U	
20	CCV	00:55	Nitrate as N	4.91	5.00	98	90-110		IC LCS_02037
21	CCB	01:12	Nitrate as N	0.20				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	LOQ	Dil
Batch ID: 652559 Date: 05/08/2024 12:31							
9056	MB 280-652559/6	Nitrate as N	0.20	U	mg/L	0.50	1

FORM III-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 652559	Date: 05/08/2024 11:57										
						LCS Source: IC LCS_02037					
9056	LCS 280-652559/4	Nitrate as N	4.94		mg/L	5.00	99	88-111	0	10	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 652559	Date: 05/08/2024 12:14										
						LCSD Source: IC LCS_02037					
9056	LCSD 280-652559/5	Nitrate as N	4.92		mg/L	5.00	98	88-111	0	10	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
METHOD REPORTING LIMIT CHECK
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 652559	Date: 05/08/2024 11:40										
						LCS Source: IC Cal low_00775					
9056	MRL 280-652559/3	Nitrate as N	0.465	J	mg/L	0.500	93	50-150			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

16A-IN
INITIAL CALIBRATION SUMMARY

Lab Name: Eurofins Denver Job No: 280-191168-1

SDG No.: Analysis Batch No.: 643627

Instrument ID: WC_IonChrom14 Calibration ID: 90565

Start Date: 02/21/2024 12:57 End Date: 02/21/2024 14:22

Analytical Method: 9056

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Nitrate as N	1.0000	45100000	-3460000	WLR	Inverse Conc

16B-IN
INITIAL CALIBRATION

Lab Name: Eurofins Denver Job No: 280-191168-1

SDG No.: Analysis Batch No.: 643627

Instrument ID: WC_IonChrom14 Calibration ID: 90565

Start Date: 02/21/2024 12:57 End Date: 02/21/2024 14:22

Analytical Method: 9056 Concentration Units: ug/mL

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Nitrate as N	0.20	0.22	8	0.50	0.48	-5	1.0	0.96	-4

16B-IN
INITIAL CALIBRATION

Lab Name: Eurofins Denver | Job No: 280-191168-1

SDG No.: | Analysis Batch No.: 643627

Instrument ID: WC_IonChrom14 | Calibration ID: 90565

Start Date: 02/21/2024 12:57 | End Date: 02/21/2024 14:22

Analytical Method: 9056 | Concentration Units: ug/mL

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Nitrate as N	4.0	4.0	1	8.0	7.9	-2	10.0	10.2	2

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job Number: 280-191168-1

SDG Number:

Matrix: Water Instrument ID: WC_IonChrom14

Method: 9056 DL Date: 06/21/2019 00:00

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Nitrate as N		0.5	0.0901

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job Number: 280-191168-1

SDG Number:

Matrix: Water Instrument ID: WC_IonChrom14

Method: 9056 XMDL Date: 06/21/2019 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrate as N		0.5	0.0901

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: WC_IonChrom14 Analysis Method: 9056

Start Date: 02/21/2024 12:57 End Date: 02/21/2024 20:53

Lab Sample Id	D/F	Type	Time	Analytes																								
				NO3																								
STD 280-643627/2 IC	1		12:57	X																								
STD 280-643627/3 IC	1		13:14	X																								
STD 280-643627/4 IC	1		13:31	X																								
STD 280-643627/5 IC	1		13:48	X																								
STD 280-643627/6 IC	1		14:05	X																								
STD 280-643627/7 IC	1		14:22	X																								
RTC 280-643627/8			14:39																									
ICB 280-643627/10	1		15:13	X																								
ZZZZZZ			15:30																									
ZZZZZZ			15:47																									
ZZZZZZ			16:04																									
ZZZZZZ			16:21																									
ZZZZZZ			16:38																									
ZZZZZZ			16:55																									
ICV 280-643627/9	1		17:46	X																								
ZZZZZZ			18:03																									
ZZZZZZ			18:20																									
ZZZZZZ			18:37																									
ZZZZZZ			18:54																									
ZZZZZZ			19:11																									
ZZZZZZ			19:28																									
CCV 280-643627/23			19:45																									
CCB 280-643627/24			20:02																									
ZZZZZZ			20:19																									
ZZZZZZ			20:36																									
ZZZZZZ			20:53																									

Prep Types:
=

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Denver | Job No.: 280-191168-1

SDG No.:

Instrument ID: WC_IonChrom14 | Analysis Method: 9056

Start Date: 05/08/2024 11:06 | End Date: 05/09/2024 09:25

Lab Sample Id	D/F	Type	Time	Analytes																								
				NO3																								
CCV 280-652559/1	1		11:06	X																								
CCB 280-652559/2	1		11:23	X																								
MRL 280-652559/3	1	T	11:40	X																								
LCS 280-652559/4	1	T	11:57	X																								
LCSD 280-652559/5	1	T	12:14	X																								
MB 280-652559/6	1	T	12:31	X																								
ZZZZZZ			21:14																									
ZZZZZZ			21:31																									
280-191168-1	1	T	21:48	X																								
ZZZZZZ			22:05																									
ZZZZZZ			22:22																									
ZZZZZZ			22:39																									
ZZZZZZ			22:56																									
ZZZZZZ			23:13																									
ZZZZZZ			23:30																									
ZZZZZZ			23:47																									
ZZZZZZ			00:04																									
ZZZZZZ			00:21																									
ZZZZZZ			00:38																									
CCV 280-652559/20	1		00:55	X																								
CCB 280-652559/21	1		01:12	X																								
ZZZZZZ			01:29																									
ZZZZZZ			01:46																									
ZZZZZZ			02:03																									
ZZZZZZ			02:20																									
ZZZZZZ			02:37																									
ZZZZZZ			02:54																									
ZZZZZZ			03:11																									
ZZZZZZ			03:28																									
ZZZZZZ			03:45																									
ZZZZZZ			04:02																									
ZZZZZZ			04:20																									
ZZZZZZ			04:37																									
ZZZZZZ			04:54																									
CCV 280-652559/35			05:11																									
CCB 280-652559/36			05:28																									
ZZZZZZ			05:45																									
ZZZZZZ			06:02																									
ZZZZZZ			06:19																									
ZZZZZZ			06:36																									
ZZZZZZ			06:53																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Instrument ID: WC_IonChrom14 Analysis Method: 9056

Start Date: 05/08/2024 11:06 End Date: 05/09/2024 09:25

Lab Sample Id	D/F	Type	Time	Analytes																								
				NO3																								
ZZZZZZ			07:10																									
ZZZZZZ			07:27																									
ZZZZZZ			07:44																									
ZZZZZZ			08:01																									
ZZZZZZ			08:18																									
ZZZZZZ			08:35																									
ZZZZZZ			08:51																									
CCV 280-652559/49			09:08																									
CCB 280-652559/50			09:25																									

Prep Types:
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Batch Number: 643627 Batch Start Date: 02/21/24 12:57 Batch Analyst: Sherman, Erik J

Batch Method: 9056 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Cl ICV Std 00007	IC CAL cl/so4 00524	IC Cal low 00758	IC ICV 5 00428
STD 280-643627/2 IC		9056			10 mL	10 mL		0.04 mL	0.04 mL	
STD 280-643627/3 IC		9056			10 mL	10 mL		0.1 mL	0.1 mL	
STD 280-643627/4 IC		9056			10 mL	10 mL		0.2 mL	0.2 mL	
STD 280-643627/5 IC		9056			10 mL	10 mL		2.4 mL	0.8 mL	
STD 280-643627/6 IC		9056			10 mL	10 mL		4.8 mL	1.6 mL	
STD 280-643627/7 IC		9056			10 mL	10 mL		8 mL	2 mL	
ICV 280-643627/9		9056			10 mL	10 mL	0.8 mL			0.8 mL
ICB 280-643627/10		9056			10 mL	10 mL				

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	IC SO4 ICV 00025					
STD 280-643627/2 IC		9056								
STD 280-643627/3 IC		9056								
STD 280-643627/4 IC		9056								
STD 280-643627/5 IC		9056								
STD 280-643627/6 IC		9056								
STD 280-643627/7 IC		9056								
ICV 280-643627/9		9056			0.8 mL					
ICB 280-643627/10		9056								

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Batch Number: 643627 Batch Start Date: 02/21/24 12:57 Batch Analyst: Sherman, Erik J

Batch Method: 9056 Batch End Date:

Batch Notes	
Filter ID	SF020E
Pipette/Syringe/Dispenser ID	1000HEX, 200CJ, IC100, BMF1000, AB8A100, ICM5000, PAIN\
Sufficient Volume for Batch QC	Y
Eluent 1 ID	IC10 ELUENT_00010
Batch Comment	EJS

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-191168-1

SDG No.:

Batch Number: 652559 Batch Start Date: 05/08/24 11:06 Batch Analyst: Castro, Isiah R

Batch Method: 9056 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	IC CAL cl/so4 00535	IC Cal low 00775	IC LCS 02037	
CCV 280-652559/1		9056			10 mL	10 mL			10 mL	
CCB 280-652559/2		9056			10 mL	10 mL				
MRL 280-652559/3		9056			10 mL	10 mL	0.2 mL	0.1 mL		
LCS 280-652559/4		9056			10 mL	10 mL			10 mL	
LCSD 280-652559/5		9056			10 mL	10 mL			10 mL	
MB 280-652559/6		9056			10 mL	10 mL				
280-191168-A-1	FWGmw-018-240401-GW	9056	Water	T	10 mL	10 mL				
CCV 280-652559/20		9056			10 mL	10 mL			10 mL	
CCB 280-652559/21		9056			10 mL	10 mL				

Batch Notes	
Filter ID	SF020E
Pipette/Syringe/Dispenser ID	1000HEX, 200CJ, IC100, BMF1000, AB8A100, ICM5000, PAIN
Sufficient Volume for Batch QC	Y
Eluent 1 ID	IC10 Eluent_00010
Batch Comment	IRC

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.

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144
Lims ID: STD L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 21-Feb-2024 12:57:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: STD L2
Misc. Info.: STD L2
Operator ID: wetchemd Instrument ID: WC_IonChrom14
Sublist: chrom-Anions_IC14*sub8

Method: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Anions_IC14.m
Limit Group: Wet - Anions
Last Update: 22-Feb-2024 12:31:59 Calib Date: 21-Feb-2024 14:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144

Column 1 : Det: 0005
Process Host: CTX1668

First Level Reviewer: XAY4 Date: 21-Feb-2024 15:00:32

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.018	3.018	0.000	5237537	NC	NC	M
2 Chloride	4.180	4.213	-0.033	14520853	NC	NC	
3 Nitrite as N	4.880	4.862	0.018	5833830	0.2000	0.1790	
4 Bromide	6.042	6.002	0.040	1035853	NC	NC	
5 Nitrate as N	6.835	6.747	0.088	6258398	0.2000	0.2155	
7 Orthophosphate as P		8.227			ND	ND	
6 Sulfate	10.283	10.218	0.065	10709134	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

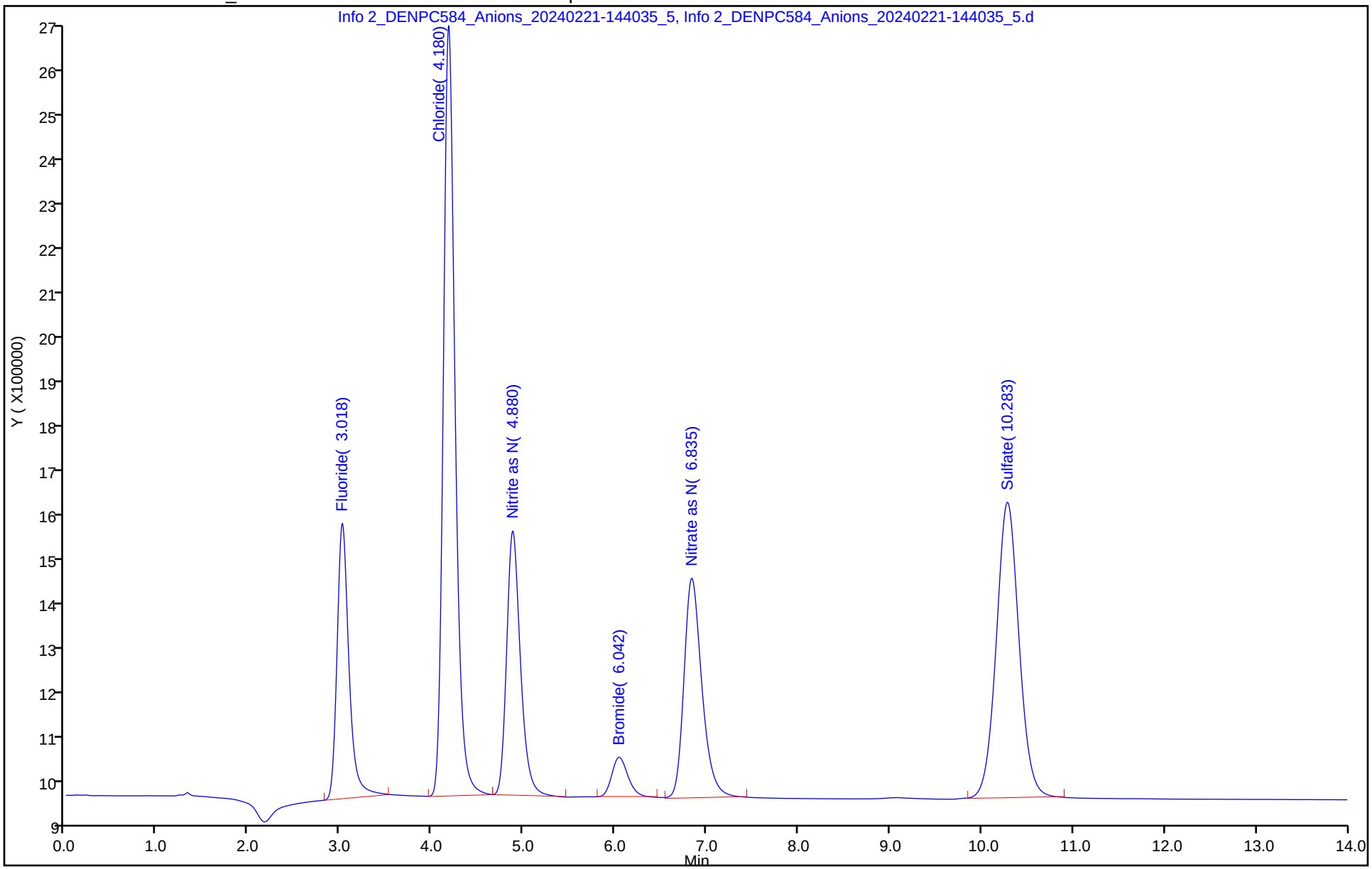
Reagents:

IC Cal low_00758 Amount Added: 0.04 Units: mL
IC CAL cl/so4_00524 Amount Added: 0.04 Units: mL

Report Date: 22-Feb-2024 12:32:00 Chrom Revision: 2.3 14-Feb-2024 16:13:40

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144035_5.d				
Injection Date:	21-Feb-2024 12:57:00	Instrument ID:	WC_IonChrom14	Operator ID:	wetchemd
Lims ID:	STD L2			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC14	Limit Group:	Wet - Anions		



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Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144
Lims ID: STD L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 21-Feb-2024 13:14:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: STD L3
Misc. Info.: STD L3
Operator ID: wetchemd Instrument ID: WC_IonChrom14
Sublist: chrom-Anions_IC14*sub8

Method: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Anions_IC14.m
Limit Group: Wet - Anions
Last Update: 22-Feb-2024 12:32:01 Calib Date: 21-Feb-2024 14:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144

Column 1 : Det: 0005
Process Host: CTX1668

First Level Reviewer: XAY4 Date: 21-Feb-2024 15:00:42

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.020	3.018	0.002	15413092	NC	NC	M
2 Chloride	4.177	4.213	-0.036	40126138	NC	NC	
3 Nitrite as N	4.875	4.862	0.013	17646586	0.5000	0.5093	
4 Bromide	6.035	6.002	0.033	2771497	NC	NC	
5 Nitrate as N	6.817	6.747	0.070	18074403	0.5000	0.4774	
7 Orthophosphate as P		8.227			ND	ND	
6 Sulfate	10.282	10.218	0.064	29142948	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

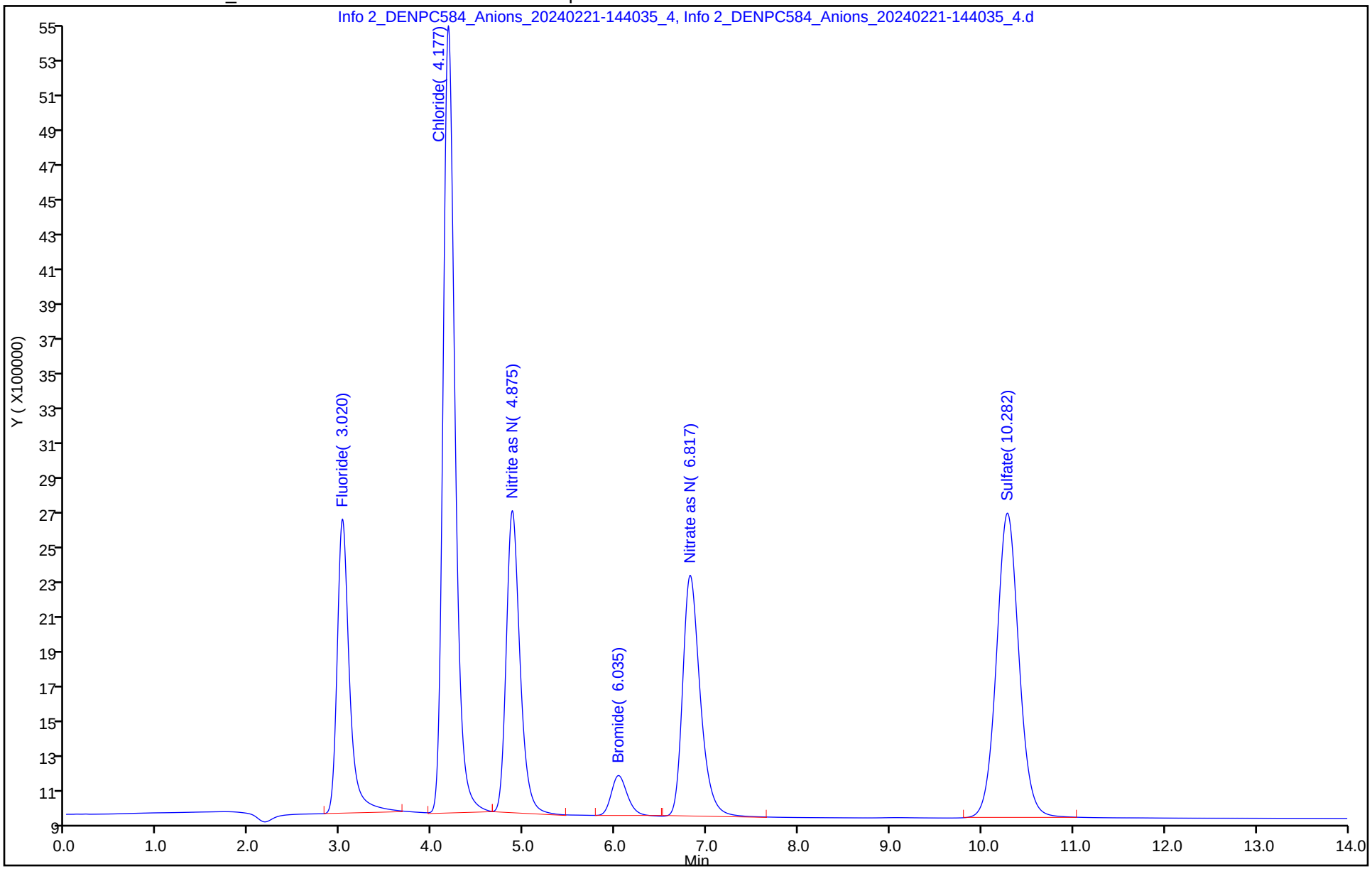
Reagents:

IC Cal low_00758 Amount Added: 0.10 Units: mL
IC CAL cl/so4_00524 Amount Added: 0.10 Units: mL

Report Date: 22-Feb-2024 12:32:01 Chrom Revision: 2.3 14-Feb-2024 16:13:40

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144035_4.d				
Injection Date:	21-Feb-2024 13:14:00	Instrument ID:	WC_IonChrom14	Operator ID:	wetchemd
Lims ID:	STD L3			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC14	Limit Group:	Wet - Anions		



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Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144
Lims ID: STD L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 21-Feb-2024 13:31:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: STD L4
Misc. Info.: STD L4
Operator ID: wetchemd Instrument ID: WC_IonChrom14
Sublist: chrom-Anions_IC14*sub8

Method: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Anions_IC14.m
Limit Group: Wet - Anions
Last Update: 22-Feb-2024 12:48:16 Calib Date: 21-Feb-2024 14:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144

Column 1 : Det: 0005
Process Host: CTX1668

First Level Reviewer: XAY4 Date: 22-Feb-2024 12:31:40

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.017	3.017	0.000	34935012	NC	NC	M
2 Chloride	4.173	4.173	0.000	83754994	NC	NC	
3 Nitrite as N	4.868	4.868	0.000	36538516	1.00	1.04	
4 Bromide	6.027	6.027	0.000	5841929	NC	NC	
5 Nitrate as N	6.798	6.798	0.000	39995593	1.00	0.9633	
7 Orthophosphate as P		8.227			ND	ND	
6 Sulfate	10.278	10.278	0.000	61704301	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

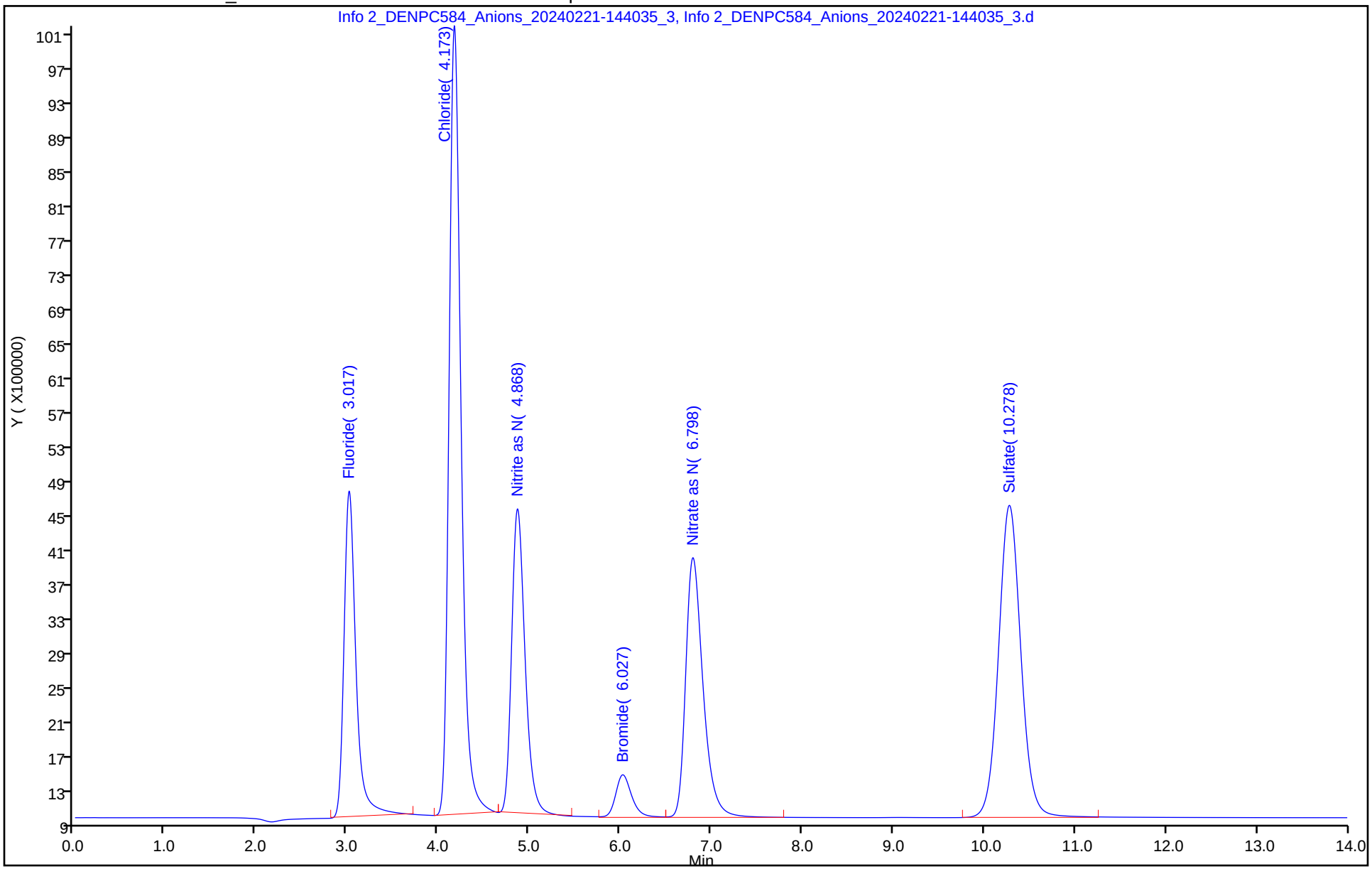
Reagents:

IC Cal low_00758 Amount Added: 0.20 Units: mL
IC CAL cl/so4_00524 Amount Added: 0.20 Units: mL

Report Date: 22-Feb-2024 12:48:17 Chrom Revision: 2.3 14-Feb-2024 16:13:40

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144035_3.d				
Injection Date:	21-Feb-2024 13:31:00	Instrument ID:	WC_IonChrom14	Operator ID:	wetchemd
Lims ID:	STD L4			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC14	Limit Group:	Wet - Anions		



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Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144
Lims ID: STD L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 21-Feb-2024 13:48:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: STD L5
Misc. Info.: STD L5
Operator ID: wetchemd Instrument ID: WC_IonChrom14
Sublist: chrom-Anions_IC14*sub8

Method: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Anions_IC14.m
Limit Group: Wet - Anions
Last Update: 22-Feb-2024 12:48:18 Calib Date: 21-Feb-2024 14:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144

Column 1 : Det: 0005
Process Host: CTX1668

First Level Reviewer: XAY4 Date: 21-Feb-2024 15:01:02

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.020	3.017	0.003	137467785	NC	NC	M
2 Chloride	4.192	4.173	0.019	994337975	NC	NC	
3 Nitrite as N	4.863	4.868	-0.005	155055342	4.00	4.35	
4 Bromide	6.015	6.027	-0.012	26570208	NC	NC	
5 Nitrate as N	6.762	6.798	-0.036	178186092	4.00	4.03	
7 Orthophosphate as P		8.227			ND	ND	
6 Sulfate	10.250	10.278	-0.028	733780348	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

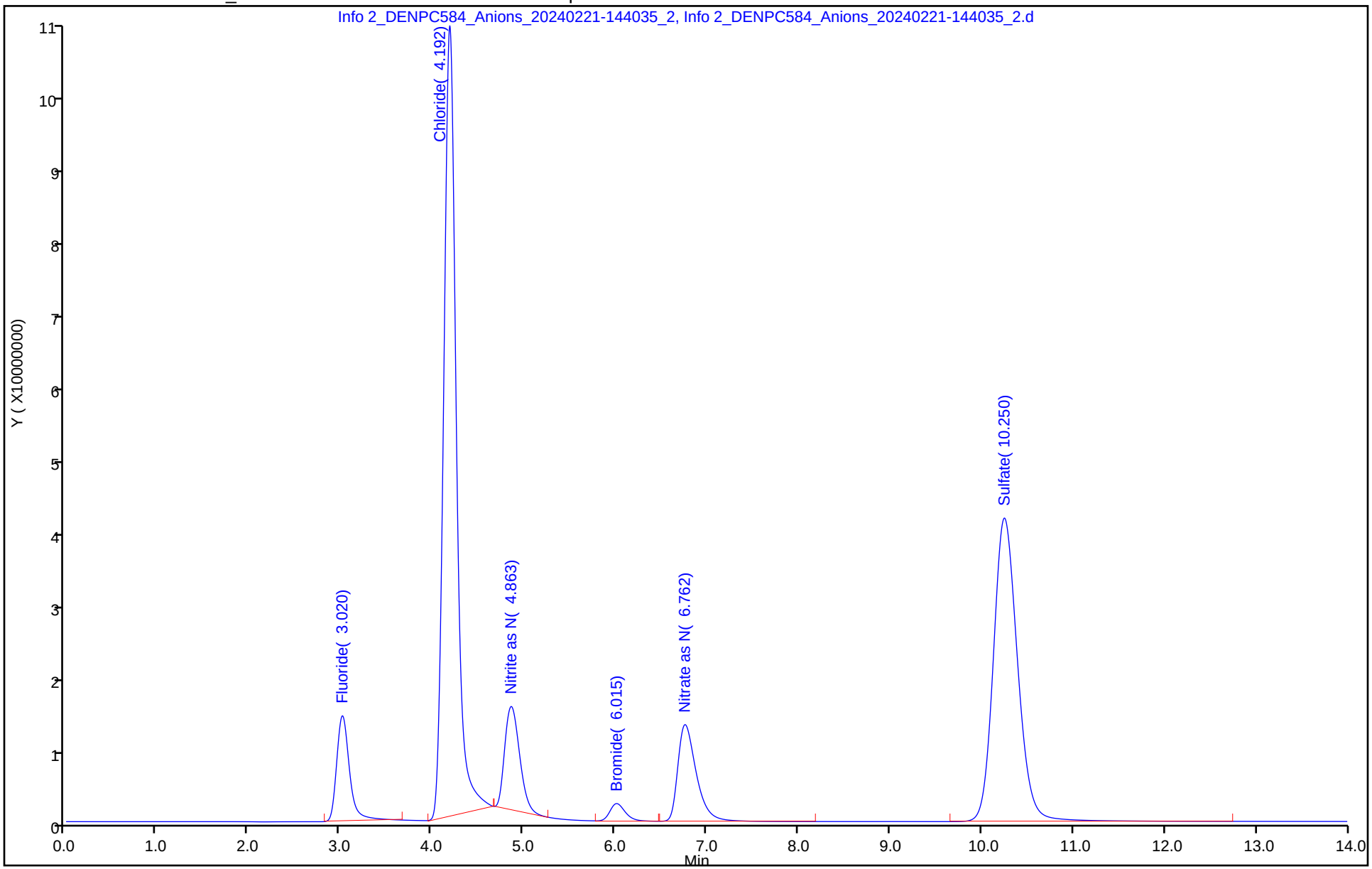
Reagents:

IC Cal low_00758 Amount Added: 0.80 Units: mL
IC CAL cl/so4_00524 Amount Added: 2.40 Units: mL

Report Date: 22-Feb-2024 12:48:18 Chrom Revision: 2.3 14-Feb-2024 16:13:40

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144035_2.d				
Injection Date:	21-Feb-2024 13:48:00	Instrument ID:	WC_IonChrom14	Operator ID:	wetchemd
Lims ID:	STD L5			Worklist Smp#:	5
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC14	Limit Group:	Wet - Anions		



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Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144
Lims ID: STD L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 21-Feb-2024 14:05:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: STD L6
Misc. Info.: STD L6
Operator ID: wetchemd Instrument ID: WC_IonChrom14
Sublist: chrom-Anions_IC14*sub8

Method: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Anions_IC14.m
Limit Group: Wet - Anions
Last Update: 22-Feb-2024 12:48:20 Calib Date: 21-Feb-2024 14:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144

Column 1 : Det: 0005
Process Host: CTX1668

First Level Reviewer: XAY4 Date: 21-Feb-2024 15:01:55

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.023	3.017	0.006	246550909	NC	NC	
2 Chloride	4.222	4.173	0.049	1861598829	NC	NC	
3 Nitrite as N	4.857	4.868	-0.011	283914915	8.00	7.95	
4 Bromide	5.988	6.027	-0.039	53917669	NC	NC	
5 Nitrate as N	6.725	6.798	-0.073	350810640	8.00	7.85	
7 Orthophosphate as P		8.227			ND	ND	
6 Sulfate	10.205	10.278	-0.073	1361001675	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND

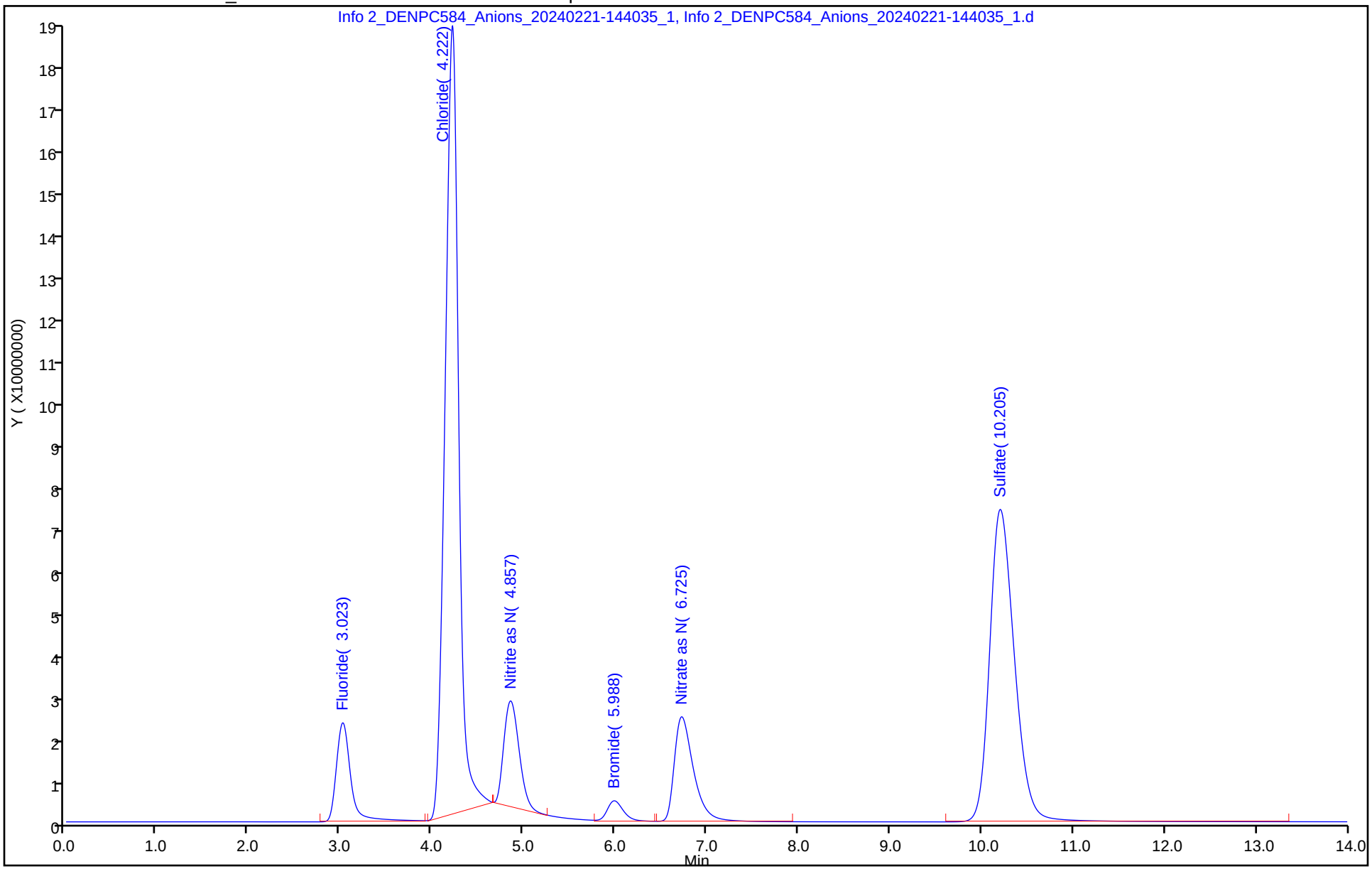
Reagents:

IC Cal low_00758 Amount Added: 1.60 Units: mL
IC CAL cl/so4_00524 Amount Added: 4.80 Units: mL

Report Date: 22-Feb-2024 12:48:20 Chrom Revision: 2.3 14-Feb-2024 16:13:40

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144035_1.d				
Injection Date:	21-Feb-2024 14:05:00	Instrument ID:	WC_IonChrom14	Operator ID:	wetchemd
Lims ID:	STD L6			Worklist Smp#:	6
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC14	Limit Group:	Wet - Anions		



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Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144
Lims ID: STD L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 21-Feb-2024 14:22:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: STD L7
Misc. Info.: STD L7
Operator ID: wetchemd Instrument ID: WC_IonChrom14
Sublist: chrom-Anions_IC14*sub8

Method: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Anions_IC14.m
Limit Group: Wet - Anions
Last Update: 22-Feb-2024 12:43:54 Calib Date: 21-Feb-2024 14:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144

Column 1 : Det: 0005
Process Host: CTX1668

First Level Reviewer: XAY4 Date: 21-Feb-2024 17:10:01

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.018	3.017	0.001	307374017	NC	NC	
2 Chloride	4.258	4.173	0.085	3168043917	NC	NC	
3 Nitrite as N	4.853	4.868	-0.015	345182165	10.0	9.67	
4 Bromide	5.983	6.027	-0.044	70115464	NC	NC	
5 Nitrate as N	6.718	6.798	-0.080	455155431	10.0	10.2	
7 Orthophosphate as P		8.227			ND	ND	
6 Sulfate	10.158	10.278	-0.120	2272897824	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND

Reagents:

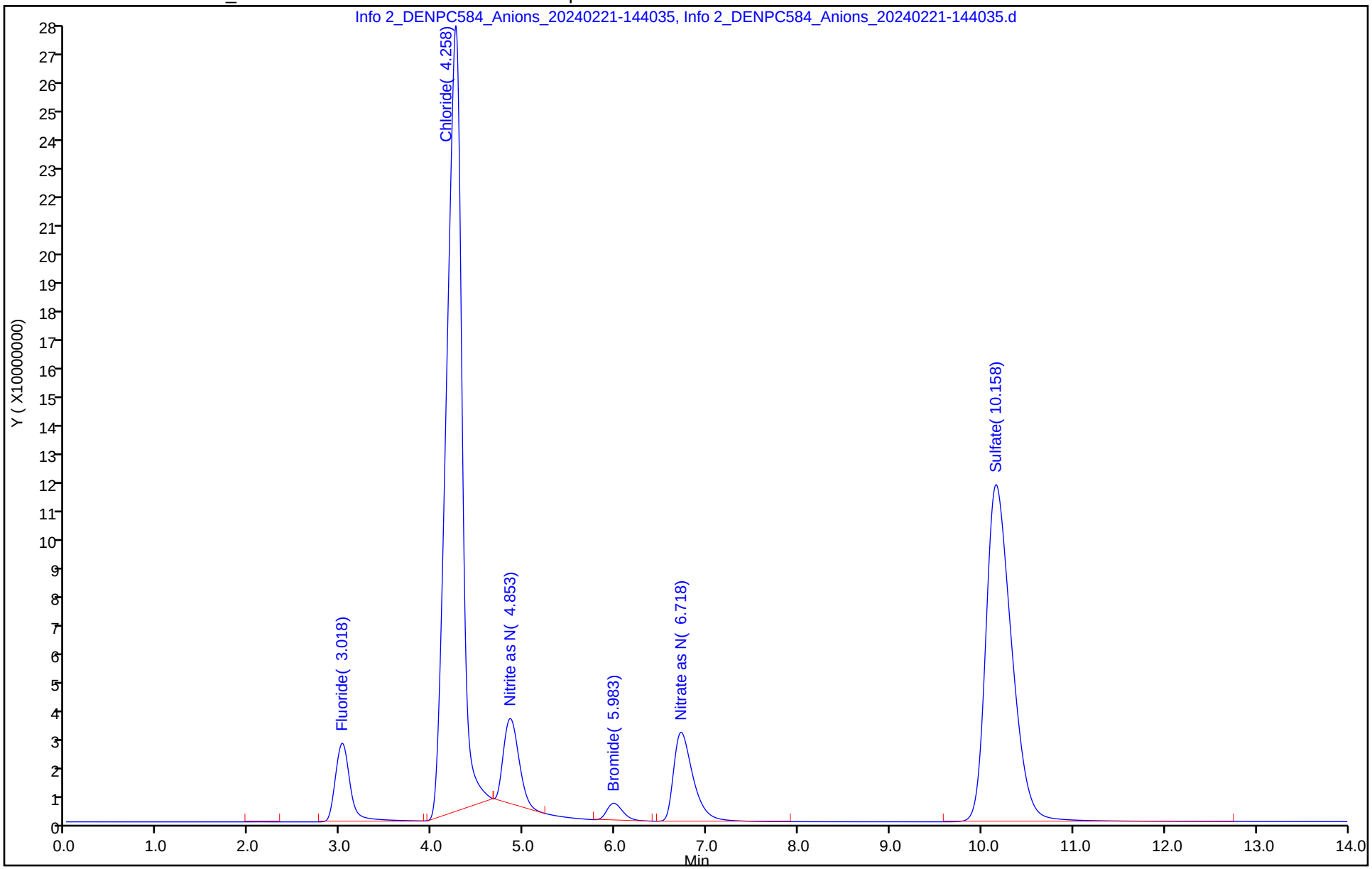
IC Cal low_00758 Amount Added: 2.00 Units: mL
IC CAL cl/so4_00524 Amount Added: 8.00 Units: mL

Report Date: 22-Feb-2024 12:43:54 Chrom Revision: 2.3 14-Feb-2024 16:13:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144035.d

Injection Date:	21-Feb-2024 14:22:00	Instrument ID:	WC_IonChrom14	Operator ID:	wetchemd
Lims ID:	STD L7			Worklist Smp#:	7
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC14	Limit Group:	Wet - Anions		



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Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-154
Lims ID: ICB
Client ID:
Sample Type: ICB
Inject. Date: 21-Feb-2024 15:13:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ICB
Misc. Info.: ICB
Operator ID: wetchemd Instrument ID: WC_IonChrom14

Method: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Anions_IC14.m
Limit Group: Wet - Anions
Last Update: 22-Feb-2024 12:34:00 Calib Date: 21-Feb-2024 14:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144

Column 1 : Det: 0005
Process Host: CTX1668

First Level Reviewer: XAY4 Date: 21-Feb-2024 17:09:24

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.793	3.020	-0.227	384535		NC	
2 Chloride		4.205				ND	
3 Nitrite as N		4.860				ND	
4 Bromide		6.005				ND	
5 Nitrate as N		6.753				ND	
7 Orthophosphate as P		8.227				ND	
6 Sulfate	10.340	10.228	0.112	265504		NC	

QC Flag Legend

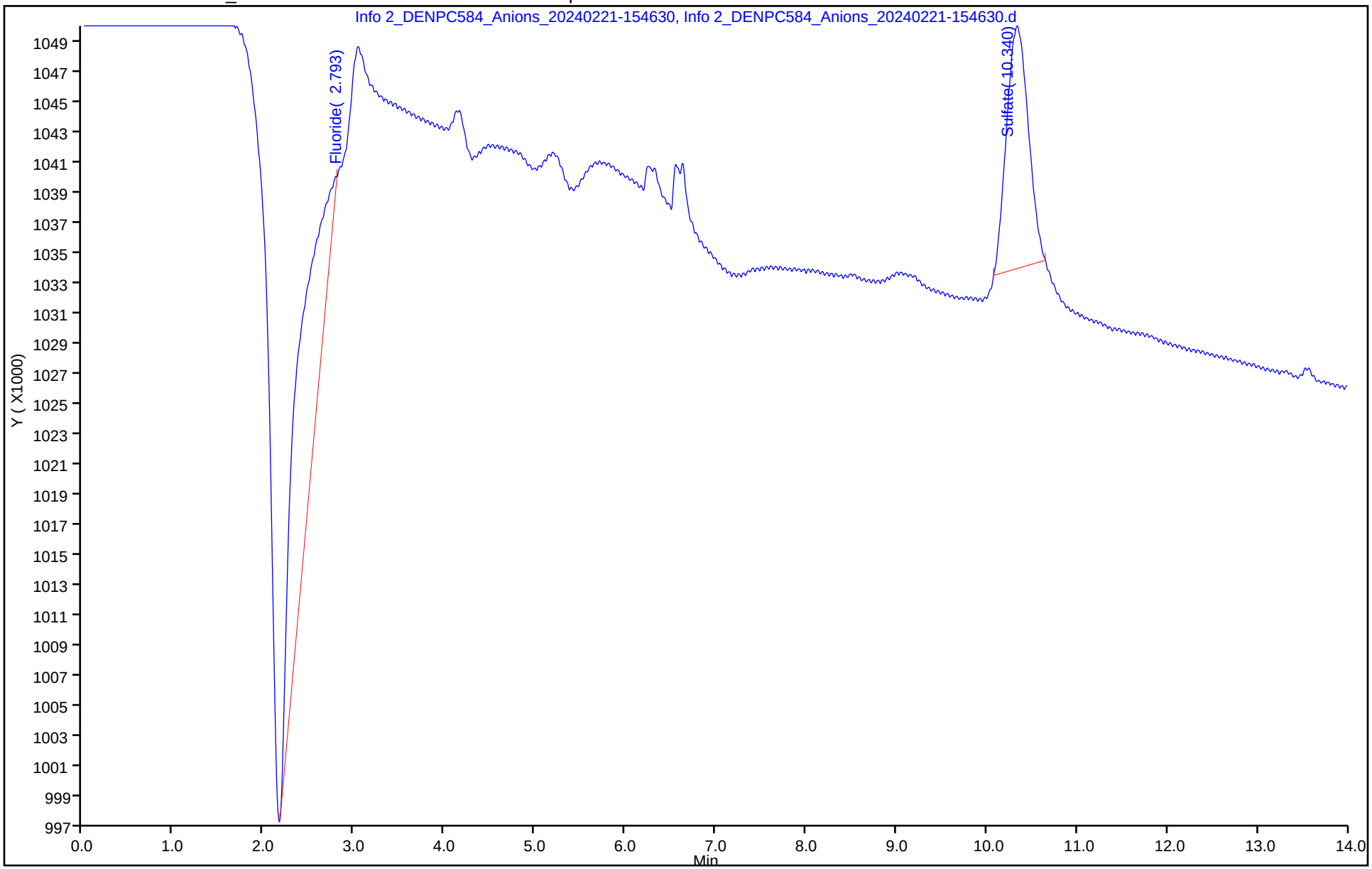
Processing Flags
NC - Not Calibrated

Report Date: 22-Feb-2024 12:34:03 Chrom Revision: 2.3 14-Feb-2024 16:13:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-154630.d

Injection Date:	21-Feb-2024 15:13:00	Instrument ID:	WC_IonChrom14	Operator ID:	wetchemd
Lims ID:	ICB			Worklist Smp#:	10
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC14	Limit Group:	Wet - Anions		



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Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-180
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 21-Feb-2024 17:46:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: ICV
Operator ID: wetchemd Instrument ID: WC_IonChrom14
Sublist:

Method: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Anions_IC14.m
Limit Group: Wet - Anions
Last Update: 22-Feb-2024 12:34:00 Calib Date: 21-Feb-2024 14:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144

Column 1 : Det: 0005
Process Host: CTX1668

First Level Reviewer: XAY4 Date: 21-Feb-2024 19:06:58

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.020	3.020	0.000	137045861	NC	NC	M
2 Chloride	4.205	4.205	0.000	1385885380	NC	NC	
3 Nitrite as N	4.860	4.860	0.000	147314245	4.00	4.14	
4 Bromide	6.005	6.005	0.000	26554602	NC	NC	
5 Nitrate as N	6.753	6.753	0.000	179296847	4.00	4.05	
7 Orthophosphate as P		8.227			ND	ND	
6 Sulfate	10.228	10.228	0.000	1009981194	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

Reagents:

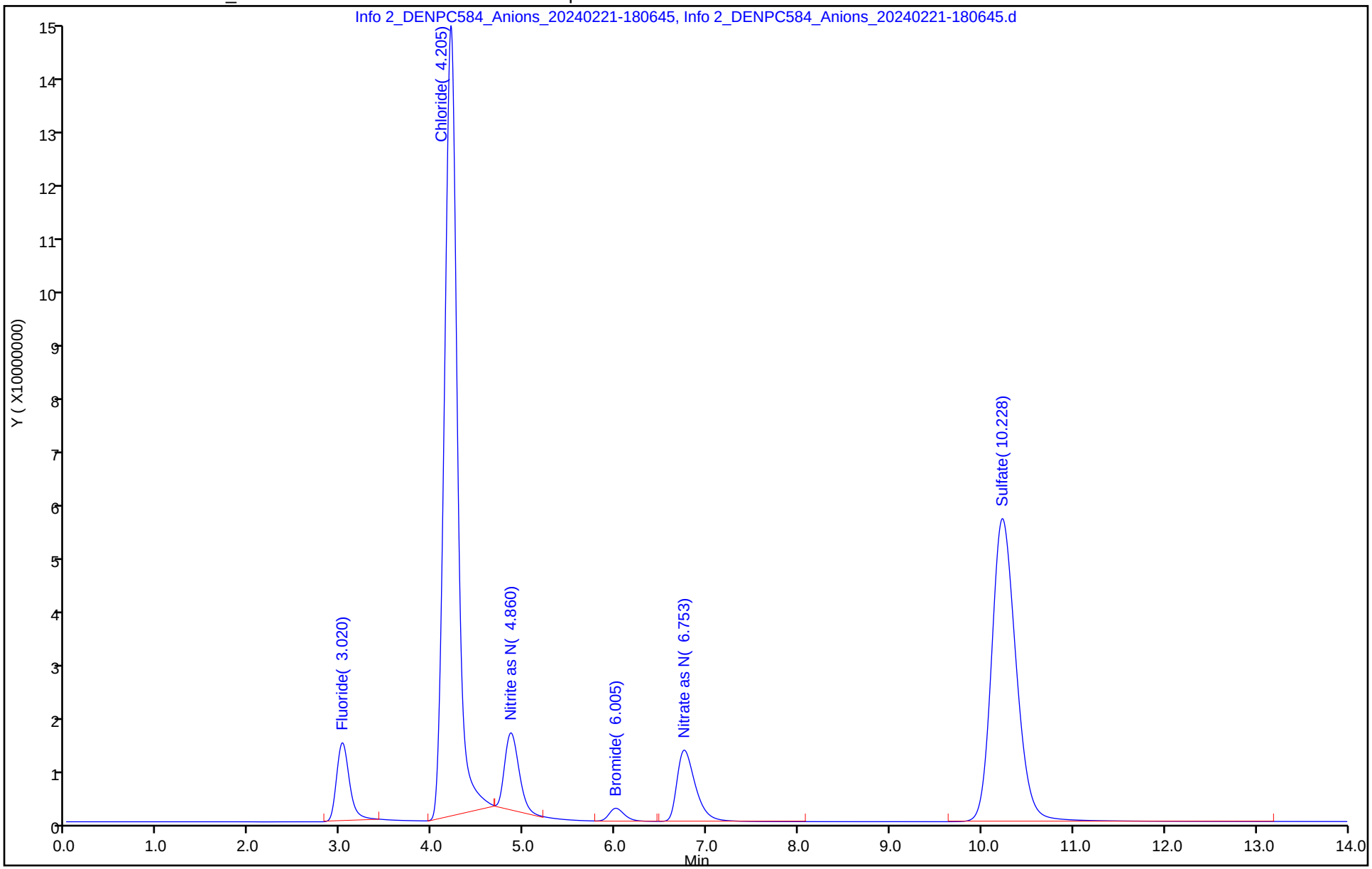
IC ICV 5_00428	Amount Added:	0.80	Units: mL
IC SO4 ICV_00025	Amount Added:	0.80	Units: mL
Cl ICV Std_00007	Amount Added:	0.80	Units: mL

Report Date: 22-Feb-2024 12:34:01 Chrom Revision: 2.3 14-Feb-2024 16:13:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-180645.d

Injection Date:	21-Feb-2024 17:46:00	Instrument ID:	WC_IonChrom14	Operator ID:	wetchemd
Lims ID:	ICV			Worklist Smp#:	9
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC14	Limit Group:	Wet - Anions		



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Eurofins Environment Testing
Worklist Report

Worklist Name: 05 08 2024
Worklist Number: 133146
Instrument Name: WC_IonChrom14
Chrom Method: Anions_IC14
Injection Volume: 5.000
Units: ul
Analysis Type: Semi VOA
Batch Directory: \\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b
Upload Directory: \\corptalsapp16\280-DN-RawData\WetChem\IonChrom14

Smp #	Lims ID	Smp Type	Dil Fact	Fract	Initial Vol/Wt	Vol/Wt Units	Sample Reagents	pH	Comment
1	# 1 ccv	CCV	1.000	irectInjection	10.00	mL	IC LCS_02037		F
2	# 2 ccb	CCB	1.000	irectInjection	10.00	mL			
3	# 3 MRL	MRL	1.000	irectInjection	10.00	mL	IC Cal low_00775 IC CAL cl/so4_00535		
4	# 4 LCS	LCS	1.000	irectInjection	10.00	mL	IC LCS_02037		
5	# 5 LCSD	LCSD	1.000	irectInjection	10.00	mL	IC LCS_02037		
6	# 6 mb	MB	1.000	irectInjection	10.00	mL			
7	# 7 280-191169-F-1	Client	1.000	irectInjection	10.00	mL			
8	# 8 280-191169-F-2	Client	1.000	irectInjection	10.00	mL			
9	# 9 280-191168-A-1	Client	1.000	irectInjection	10.00	mL			
10	#10 280-191169-F-3	Client	1.000	irectInjection	10.00	mL			
11	#11 280-191169-F-3 DU	DU	1.000	irectInjection	10.00	mL			
12	#12 280-191169-F-3 MS	MS	1.000	irectInjection	10.00	mL	ICMS/MSD WEEK_00877		
13	#13 280-191169-F-3 MSD	MSD	1.000	irectInjection	10.00	mL	ICMS/MSD WEEK_00877		
14	#14 280-191153-E-1	Client	1.000	irectInjection	10.00	mL			
15	#15 280-191165-A-4	Client	1.000	irectInjection	10.00	mL			
16	#16 280-191169-F-4	Client	1.000	irectInjection	10.00	mL			F
17	#17 280-191153-E-2	Client	1.000	irectInjection	10.00	mL			
18	#18 280-191169-F-5	Client	1.000	irectInjection	10.00	mL			
19	#19 280-191169-F-6	Client	1.000	irectInjection	10.00	mL			F
20	#20 ccv	CCV	1.000	irectInjection	10.00	mL	IC LCS_02037		
21	#21 ccb	CCB	1.000	irectInjection	10.00	mL			
22	#22 280-191165-A-5	Client	1.000	irectInjection	10.00	mL			
23	#23 280-191165-A-5 DU	DU	1.000	irectInjection	10.00	mL			
24	#24 280-191165-A-5 MS	MS	1.000	irectInjection	10.00	mL	ICMS/MSD WEEK_00877		
25	#25 280-191165-A-5 MSD	MSD	1.000	irectInjection	10.00	mL	ICMS/MSD WEEK_00877		
26	#26 280-191154-F-1	Client	1.000	irectInjection	10.00	mL			
27	#27 280-191163-D-5	Client	1.000	irectInjection	10.00	mL			
28	#28 280-191163-E-2	Client	1.000	irectInjection	10.00	mL			
29	#29 280-191164-H-6	Client	1.000	irectInjection	10.00	mL			
30	#30 280-191164-H-7	Client	1.000	irectInjection	10.00	mL			
31	#31 280-191169-F-7	Client	1.000	irectInjection	10.00	mL			
32	#32 280-191154-F-2	Client	1.000	irectInjection	10.00	mL			
33	#33 280-191163-D-3	Client	1.000	irectInjection	10.00	mL			
34	#34 280-191163-D-3	Client	10.00	irectInjection	10.00	mL			
35	#35 ccv	CCV	1.000	irectInjection	10.00	mL	IC LCS_02037		F
36	#36 ccb	CCB	1.000	irectInjection	10.00	mL			
37	#37 280-191169-F-8	Client	1.000	irectInjection	10.00	mL			
38	#38 lcs	LCS	1.000	irectInjection	10.00	mL	IC LCS_02037		F
39	#39 lcsd	LCSD	1.000	irectInjection	10.00	mL	IC LCS_02037		
40	#40 mb	MB	1.000	irectInjection	10.00	mL			
41	#41 280-191162-A-1	Client	1.000	irectInjection	10.00	mL			F
42	#42 280-191169-D-10	Client	1.000	irectInjection	10.00	mL			
43	#43 280-191165-A-1	Client	1.000	irectInjection	10.00	mL			
44	#44 280-191165-A-1 DU	DU	1.000	irectInjection	10.00	mL			
45	#45 280-191165-A-1 MS	MS	1.000	irectInjection	10.00	mL	ICMS/MSD WEEK_00877		
46	#46 280-191165-A-1 MSD	MSD	1.000	irectInjection	10.00	mL	ICMS/MSD WEEK_00877		
47	#47 280-191165-A-2	Client	1.000	irectInjection	10.00	mL			
48	#48 280-191165-A-3	Client	1.000	irectInjection	10.00	mL			
49	#49 ccv	CCV	1.000	irectInjection	10.00	mL	IC LCS_02037		F
50	#50 ccb	CCB	1.000	irectInjection	10.00	mL			F

WC Anions @ 5/8/2024 6:41:39 PM

VIP	Record Status	HT Expires	Job Due Date	2nd Level Due	Assigned To	Received	Job Number	Rush	Login	Date Sampled
Chrom Worklist #		Lab Sample ID	Sample Matrix	Container Matrix	Login Sample Type	Method	Status	Batch	A-Method	
A-Status		ASub List		Client		Project			PM	
Refrigerator			Prep Chain	Client ID		Result History				
Dilution History			PM							
	Active	05/09/24 07:15	05/30/2024	05/24/2024		05/08/24 10:25	280-J191169-1	No	191169	05/07/24 07:15
		280-191169-1	Water	Water		9056A_48H_DOD5	Ready	No		9056A_48H_DOD5
		Nitrate and Nitrite		Tidewater Inc. Powell, OH		NSA Crane, IN: SWMU 8, 10, and 11			PJM	
221 & AA-2 & Burlington & Mtls-Strge & VS-15				11MWT06-202405						
			McEntee, P							
	Active	05/09/24 07:15	05/30/2024	05/24/2024		05/08/24 10:25	280-J191169-1	No	191169	05/07/24 07:15
		280-191169-2	Water	Water		9056A_48H_DOD5	Ready	No		9056A_48H_DOD5
		Nitrate and Nitrite		Tidewater Inc. Powell, OH		NSA Crane, IN: SWMU 8, 10, and 11			PJM	
221 & AA-2 & Burlington & Mtls-Strge & VS-15				FD-202405						
			McEntee, P							
	Active	05/09/24 07:25	05/30/2024	05/24/2024		05/08/24 10:25	280-J191168-1	No	191168	05/07/24 07:25
		280-191168-1	Water	Water		9056_48H_DOD5	Ready	No		9056_48H_DOD5
		(MOD) Nitrate only		Leidos, Inc. Picatinny Arsenal Dover- N		RVAAP FWGW			PJM	
209				FWGmw-018-240401-GW						
			McEntee, P							
						Q5.0				
	Active	05/09/24 07:25	05/30/2024	05/24/2024		05/08/24 10:25	280-J191169-1	No	191169	05/07/24 07:25
		280-191169-3	Water	Water		9056A_48H_DOD5	Ready	No		9056A_48H_DOD5
		Nitrate and Nitrite		Tidewater Inc. Powell, OH		NSA Crane, IN: SWMU 8, 10, and 11			PJM	
221 & AA-2 & Burlington & Mtls-Strge & VS-15				11MWT02-202405						
			McEntee, P							
	Active	05/09/24 07:25	05/30/2024	05/24/2024		05/08/24 10:25	280-J191169-1	No	191169	05/07/24 07:25
		280-191169-3MS	Water	Water		9056A_48H_DOD5	Ready	No		9056A_48H_DOD5
		Nitrate and Nitrite		Tidewater Inc. Powell, OH		NSA Crane, IN: SWMU 8, 10, and 11			PJM	
221 & AA-2 & Burlington & Mtls-Strge & VS-15				11MWT02-202405						
			McEntee, P							
	Active	05/09/24 07:25	05/30/2024	05/24/2024		05/08/24 10:25	280-J191169-1	No	191169	05/07/24 07:25
		280-191169-3MS	Water	Water		9056A_48H_DOD5	Ready	No		9056A_48H_DOD5
		Nitrate and Nitrite		Tidewater Inc. Powell, OH		NSA Crane, IN: SWMU 8, 10, and 11			PJM	
221 & AA-2 & Burlington & Mtls-Strge & VS-15				11MWT02-202405						
			McEntee, P							

WC Anions @ 5/8/2024 6:41:39 PM

VIP	Record Status	HT Expires	Job Due Date	2nd Level Due	Assigned To	Received	Job Number	Rush	Login	Date Sampled
Chrom Worklist #		Lab Sample ID	Sample Matrix	Container Matrix	Login Sample Type	Method	Status	Batch	A-Method	
A-Status		ASub List		Client		Project			PM	
Refrigerator			Prep Chain	Client ID		Result History				
Dilution History			PM							

Active 05/09/24 09:05 05/22/2024 05/20/2024 05/08/24 08:40 280-J191153-1 No 191153 05/07/24 09:05
280-191153-1 Water Water 300_48HR Ready No 300_48HR
Nitrate, Nitrite by IC Evergreen Natural Resources LLC Eve Evergreen Natural Resources MOG
206 & AA-2 & Mtls-Strge & St. Louis & VS-15 FISHHOOK 43-8
Gardner, M

Local Active 05/09/24 09:07 05/30/2024 05/24/2024 05/08/24 10:25 280-J191165-1 No 191165 05/07/24 09:07
280-191165-4 Water Water 9056A_48H_DOD5 Ready No 9056A_48H_DOD5
(MOD) Nitrate as N Nitrite as N TLI Solutions Inc Lakewood, CO Pueblo Chemical Depot 2023-2024 MOG
221 & AA-2 & VS-15 FCVMW02
Gardner, M
DOD_DIL3

Active 05/09/24 09:13 05/30/2024 05/24/2024 05/08/24 10:25 280-J191169-1 No 191169 05/07/24 09:13
280-191169-4 Water Water 9056A_48H_DOD5 Ready No 9056A_48H_DOD5
Nitrate and Nitrite Tidewater Inc. Powell, OH NSA Crane, IN: SWMU 8, 10, and 11 PJM
221 & AA-2 & Burlington & Mtls-Strge & VS-15 11MWT05-202405
McEntee, P

Active 05/09/24 09:55 05/22/2024 05/20/2024 05/08/24 08:40 280-J191153-3 No 191153 05/07/24 09:55
280-191153-2 Water Water 300_48HR Ready No 300_48HR
Nitrate, Nitrite by IC Evergreen Natural Resources LLC Eve Evergreen Natural Resources MOG
206 & AA-2 & Mtls-Strge & St. Louis & VS-15 ROAD CANYON 44-8
Gardner, M

Local Active 05/09/24 10:05 05/30/2024 05/24/2024 05/08/24 10:25 280-J191165-1 No 191165 05/07/24 10:05
280-191165-5 Water Water 9056A_48H_DOD5 Ready No 9056A_48H_DOD5
(MOD) Nitrate as N Nitrite as N TLI Solutions Inc Lakewood, CO Pueblo Chemical Depot 2023-2024 MOG
221 & AA-2 & VS-15 FCVPIEZ006
Gardner, M
DOD_DIL3

Local Active 05/09/24 10:05 05/30/2024 05/24/2024 05/08/24 10:25 280-J191165-1 No 191165 05/07/24 10:05
280-191165-5MS Water Water 9056A_48H_DOD5 Ready No 9056A_48H_DOD5
(MOD) Nitrate as N Nitrite as N TLI Solutions Inc Lakewood, CO Pueblo Chemical Depot 2023-2024 MOG
221 & AA-2 & VS-15 FCVPIEZ006MS
Gardner, M
DOD_DIL3

WC Anions @ 5/8/2024 6:41:39 PM

VIP	Record Status	HT Expires	Job Due Date	2nd Level Due	Assigned To	Received	Job Number	Rush	Login	Date Sampled
Chrom Worklist #		Lab Sample ID	Sample Matrix	Container Matrix	Login Sample Type	Method	Status	Batch	A-Method	
A-Status		ASub List		Client		Project			PM	
Refrigerator			Prep Chain	Client ID		Result History				
Dilution History			PM							

Local	Active	05/09/24 10:05	05/30/2024	05/24/2024		05/08/24 10:25	280-J191165-1	No	191165	05/07/24 10:05
		280-191165-5MS	Water	Water		9056A_48H_DOD5	Ready	No		9056A_48H_DOD5
		(MOD) Nitrate as N Nitrite as N		TLI Solutions Inc Lakewood, CO		Pueblo Chemical Depot 2023-2024				MOG
221 & AA-2 & VS-15				FCVPIEZ006MSD						
			Gardner, M							
						DOD_DIL3				
	Active	05/09/24 10:25	05/30/2024	05/24/2024		05/08/24 10:25	280-J191169-1	No	191169	05/07/24 10:25
		280-191169-5	Water	Water		9056A_48H_DOD5	Ready	No		9056A_48H_DOD5
		Nitrate and Nitrite		Tidewater Inc. Powell, OH		NSA Crane, IN: SWMU 8, 10, and 11				PJM
221 & AA-2 & Burlington & Mtls-Strge & VS-15				11MWT07-202405						
			McEntee, P							
	Active	05/09/24 10:30	05/30/2024	05/24/2024		05/08/24 10:25	280-J191169-1	No	191169	05/07/24 10:30
		280-191169-6	Water	Water		9056A_48H_DOD5	Ready	No		9056A_48H_DOD5
		Nitrate and Nitrite		Tidewater Inc. Powell, OH		NSA Crane, IN: SWMU 8, 10, and 11				PJM
221 & AA-2 & Burlington & Mtls-Strge & VS-15				11MWT08-202405						
			McEntee, P							
	Active	05/09/24 10:45	05/22/2024	05/20/2024		05/08/24 08:40	280-J191154-1	No	191154	05/07/24 10:45
		280-191154-1	Water	Water		300_48HR	Ready	No		300_48HR
		Nitrate, Nitrite by IC		Evergreen Natural Resources LLC Eve		Evergreen Natural Resources				MOG
206 & AA-2 & Mtls-Strge & St. Louis & VS-15				SHERR 12-16						
			Gardner, M							
	Active	05/09/24 11:00	05/30/2024	05/24/2024		05/08/24 10:25	280-J191163-1	No	191163	05/07/24 11:00
		280-191163-5	Water	Water		9056A_48HR	Ready	No		9056A_48HR
		(MOD) Local Method		CDM Smith Inc Kellogg, Idaho		Bannock Ft. Hall Mine LF, Idaho				DTB
222 & Mtls-Strge				MW120D-20240507						
			Bieniulis, D							
	Active	05/09/24 11:00	05/30/2024	05/24/2024		05/08/24 10:25	280-J191163-1	No	191163	05/07/24 11:00
		280-191163-2	Water	Water		9056A_48HR	Ready	No		9056A_48HR
		(MOD) Local Method		CDM Smith Inc Kellogg, Idaho		Bannock Ft. Hall Mine LF, Idaho				DTB
222 & Mtls-Strge				RW-2-20240507						
			Bieniulis, D							

WC Anions @ 5/8/2024 6:41:39 PM

VIP	Record Status	HT Expires	Job Due Date	2nd Level Due	Assigned To	Received	Job Number	Rush	Login	Date Sampled
Chrom Worklist #		Lab Sample ID	Sample Matrix	Container Matrix	Login Sample Type	Method	Status	Batch	A-Method	
A-Status		ASub List		Client		Project			PM	
Refrigerator			Prep Chain	Client ID		Result History				
Dilution History			PM							

Local Active 05/09/24 11:20 05/30/2024 05/24/2024 05/08/24 10:25 280-J191164-1 No 191164 05/07/24 11:20
280-191164-6 Water Water 9056A_48H_DOD5 Ready No 9056A_48H_DOD5
(MOD) Nitrate as N Nitrite as N TLI Solutions Inc Lakewood, CO Pueblo Chemical Depot 2023-2024 MOG
209 & AA-2 & VS-15 OLFMW06
Gardner, M
DOD_DIL3

Local Active 05/09/24 11:20 05/30/2024 05/24/2024 05/08/24 10:25 280-J191164-1 No 191164 05/07/24 11:20
280-191164-7 Water Water 9056A_48H_DOD5 Ready No 9056A_48H_DOD5
(MOD) Nitrate as N Nitrite as N TLI Solutions Inc Lakewood, CO Pueblo Chemical Depot 2023-2024 MOG
209 & AA-2 & VS-15 OLFMW06FD
Gardner, M
DOD_DIL3

Active 05/09/24 11:25 05/30/2024 05/24/2024 05/08/24 10:25 280-J191169-1 No 191169 05/07/24 11:25
280-191169-7 Water Water 9056A_48H_DOD5 Ready No 9056A_48H_DOD5
Nitrate and Nitrite Tidewater Inc. Powell, OH NSA Crane, IN: SWMU 8, 10, and 11 PJM
221 & AA-2 & Burlington & Mtls-Strge & VS-15 11MWT01-202405
McEntee, P

Active 05/09/24 11:25 05/22/2024 05/20/2024 05/08/24 08:40 280-J191154-3 No 191154 05/07/24 11:25
280-191154-2 Water Water 300_48HR Ready No 300_48HR
Nitrate, Nitrite by IC Evergreen Natural Resources LLC Eve Evergreen Natural Resources MOG
206 & AA-2 & Mtls-Strge & St. Louis & VS-15 CHASE 21-20 0,0,0,0
1,1,1,1 Gardner, M

Active 05/09/24 11:35 05/30/2024 05/24/2024 05/08/24 10:25 280-J191163-1 No 191163 05/07/24 11:35
280-191163-3 Water Water 9056A_48HR Ready No 9056A_48HR
(MOD) Local Method CDM Smith Inc Kellogg, Idaho Bannock Ft. Hall Mine LF, Idaho DTB
222 & Mtls-Strge MW-121-20240507
Bieniulis, D

10x

Active 05/09/24 11:40 05/30/2024 05/24/2024 05/08/24 10:25 280-J191169-1 No 191169 05/07/24 11:40
280-191169-8 Water Water 9056A_48H_DOD5 Ready No 9056A_48H_DOD5
Nitrate and Nitrite Tidewater Inc. Powell, OH NSA Crane, IN: SWMU 8, 10, and 11 PJM
221 & AA-2 & Burlington & Mtls-Strge & VS-15 11MWT03-202405
McEntee, P

WC Anions @ 5/8/2024 6:41:39 PM

VIP	Record Status	HT Expires	Job Due Date	2nd Level Due	Assigned To	Received	Job Number	Rush	Login	Date Sampled
Chrom Worklist #		Lab Sample ID	Sample Matrix	Container Matrix	Login Sample Type	Method	Status	Batch	A-Method	
A-Status		ASub List		Client		Project			PM	
Refrigerator			Prep Chain	Client ID		Result History				
Dilution History			PM							

Global	Active	05/09/24 12:00	05/30/2024	05/24/2024		05/08/24 10:25	280-J191162-1	Yes	191162	05/07/24 12:00
		280-191162-1	Water	Water		300_48HR	Ready	No	300_48HR	
		Anions, Ion Chromatography (NO3)		Waste Management Anderson, CA		1040|Anderson Landfill			JSC	
221 & AA-2 & Mtls-Strge				SED-1		0.14,0,0.15,0,0.091,0,0,0				
1,1,1,1,1,1,1,1,1			Collins, J							
	Active	05/09/24 12:15	05/30/2024	05/24/2024		05/08/24 10:25	280-J191169-1	No	191169	05/07/24 12:15
		280-191169-10	Water	Water		9056A_48H_DOD5	Ready	No	9056A_48H_DOD5	
		Nitrate and Nitrite		Tidewater Inc. Powell, OH		NSA Crane, IN: SWMU 8, 10, and 11			PJM	
221 & AA-2 & Burlington & Mtls-Strge & VS-15				11MWT09-202405						
			McEntee, P							
Local	Active	05/09/24 12:25	05/30/2024	05/24/2024		05/08/24 10:25	280-J191165-1	No	191165	05/07/24 12:25
		280-191165-1	Water	Water		9056A_48H_DOD5	Ready	No	9056A_48H_DOD5	
		Nitrate as N		TLI Solutions Inc Lakewood, CO		Pueblo Chemical Depot 2023-2024			MOG	
221 & AA-2				DDPIEZ011						
			Gardner, M							
						DOD_DIL3				
Local	Active	05/09/24 12:25	05/30/2024	05/24/2024		05/08/24 10:25	280-J191165-1	No	191165	05/07/24 12:25
		280-191165-2	Water	Water		9056A_48H_DOD5	Ready	No	9056A_48H_DOD5	
		Nitrate as N		TLI Solutions Inc Lakewood, CO		Pueblo Chemical Depot 2023-2024			MOG	
221 & AA-2				DDPIEZ012						
			Gardner, M							
						DOD_DIL3				
Local	Active	05/09/24 12:25	05/30/2024	05/24/2024		05/08/24 10:25	280-J191165-1	No	191165	05/07/24 12:25
		280-191165-3	Water	Water		9056A_48H_DOD5	Ready	No	9056A_48H_DOD5	
		Nitrate as N		TLI Solutions Inc Lakewood, CO		Pueblo Chemical Depot 2023-2024			MOG	
221 & AA-2				DDPIEZ012FD						
			Gardner, M							
						DOD_DIL3				

Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Info 2_DENPC584_Anions_20240508-112				
Lims ID:	ccv				
Client ID:					
Sample Type:	CCV				
Inject. Date:	08-May-2024 11:06:00	ALS Bottle#:	0	Worklist Smp#:	1
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV				
Misc. Info.:	CCV				
Operator ID:	wetchemd	Instrument ID:	WC_IonChrom14		
Sublist:	chrom-Anions_IC14*sub10				
Method:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Anions_IC14.m				
Limit Group:	Wet - Anions				
Last Update:	09-May-2024 10:01:04	Calib Date:	21-Feb-2024 14:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144				
Column 1 :			Det: 0005		
Process Host:	CTX1610				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.963	2.963	0.000	134413369	NC	NC	
2 Chloride	4.098	4.098	0.000	1599092630	NC	NC	
3 Nitrite as N	4.713	4.713	0.000	170615927	5.00	4.79	
4 Bromide	5.778	5.778	0.000	29363066	NC	NC	
5 Nitrate as N	6.492	6.492	0.000	218799604	5.00	4.93	
6 Sulfate	9.503	9.503	0.000	1192162719	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

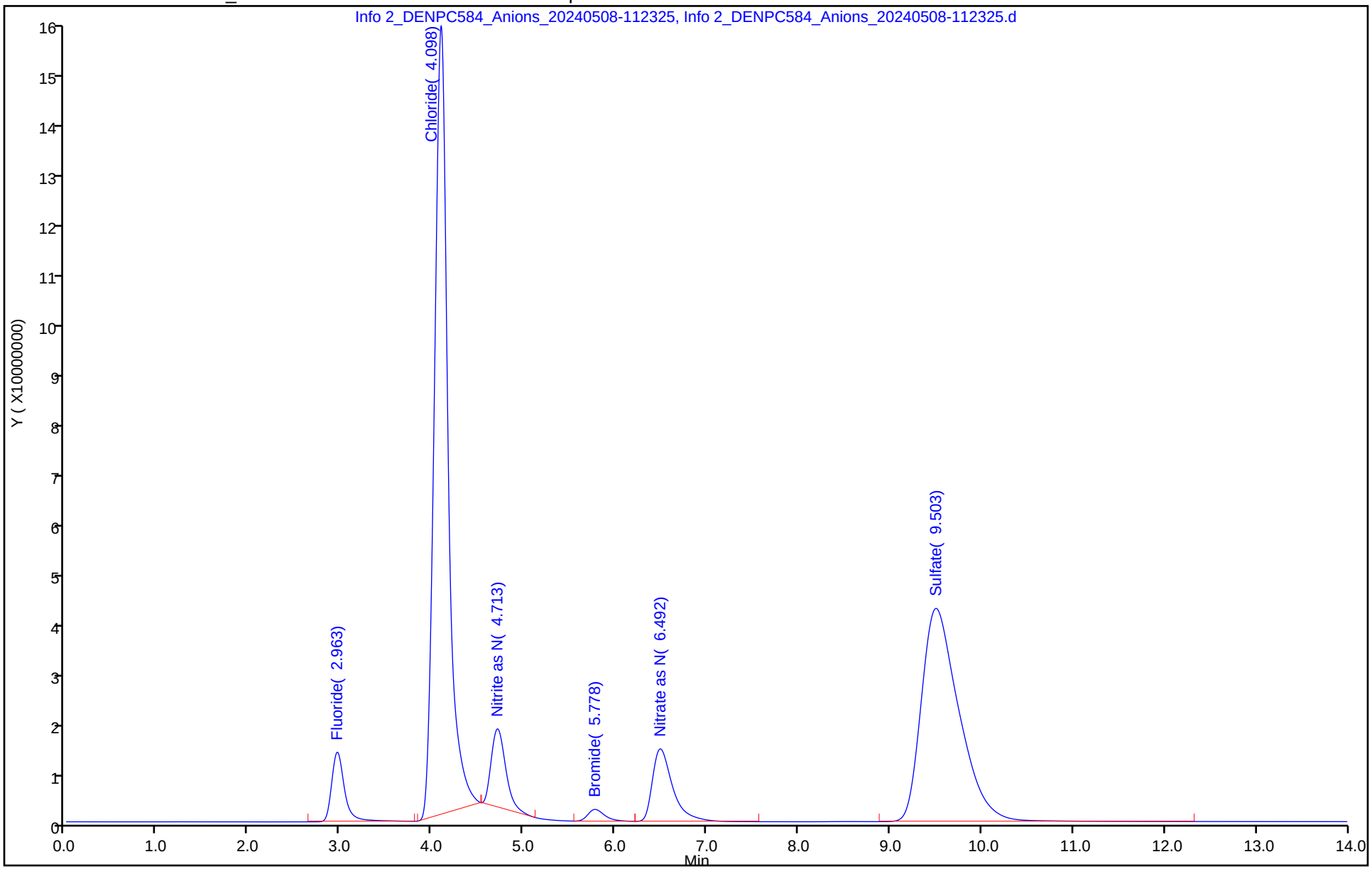
Reagents:

IC LCS_02037 Amount Added: 10.00 Units: mL

Report Date: 09-May-2024 10:01:05 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Info 2_DENPC584_Anions_20240508-112325.d				
Injection Date:	08-May-2024 11:06:00	Instrument ID:	WC_IonChrom14	Operator ID:	wetchemd
Lims ID:	ccv			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC14	Limit Group:	Wet - Anions		



5/21/2024
3:57:23 PM

Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Info 2_DENPC584_Anions_20240508-114				
Lims ID:	ccb				
Client ID:					
Sample Type:	CCB				
Inject. Date:	08-May-2024 11:23:00	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCB				
Misc. Info.:	CCB				
Operator ID:	wetchemd	Instrument ID:	WC_IonChrom14		
Method:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Anions_IC14.m				
Limit Group:	Wet - Anions				
Last Update:	09-May-2024 10:01:04	Calib Date:	21-Feb-2024 14:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144				
Column 1 :			Det: 0005		
Process Host:	CTX1610				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.732	2.963	-0.231	315916			NC
2 Chloride		4.098				ND	
3 Nitrite as N		4.713				ND	
4 Bromide		5.778				ND	
5 Nitrate as N		6.492				ND	
7 Orthophosphate as P		8.227				ND	
6 Sulfate		9.503				ND	

QC Flag Legend

Processing Flags

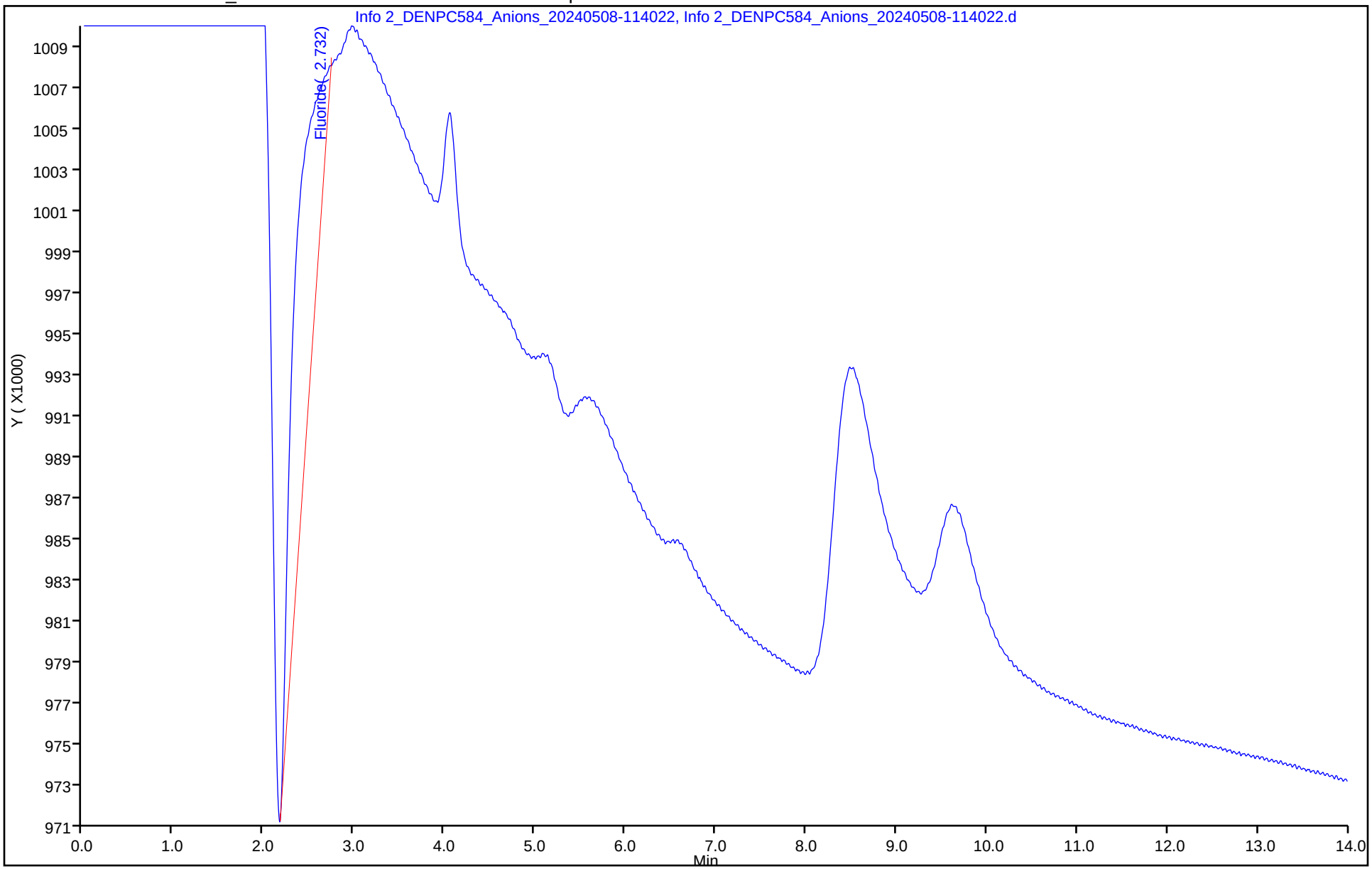
NC - Not Calibrated

Report Date: 09-May-2024 10:01:06 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Info 2_DENPC584_Anions_20240508-114022.d

Injection Date:	08-May-2024 11:23:00	Instrument ID:	WC_IonChrom14	Operator ID:	wetchemd
Lims ID:	ccb			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC14	Limit Group:	Wet - Anions		



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Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Info 2_DENPC584_Anions_20240508-115				
Lims ID:	MRL				
Client ID:					
Sample Type:	MRL				
Inject. Date:	08-May-2024 11:40:00	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Sample Info:	MRL				
Misc. Info.:	MRL				
Operator ID:	wetchemd	Instrument ID:	WC_IonChrom14		
Method:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Anions_IC14.m				
Limit Group:	Wet - Anions				
Last Update:	09-May-2024 10:01:04	Calib Date:	21-Feb-2024 14:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144				
Column 1 :			Det: 0005		
Process Host:	CTX1610				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.953	2.963	-0.010	12916995	NC	NC	
2 Chloride	4.053	4.098	-0.045	81225540	NC	NC	
3 Nitrite as N	4.715	4.713	0.002	16259500	0.5000	0.4705	
4 Bromide	5.812	5.778	0.034	2445329	NC	NC	
5 Nitrate as N	6.552	6.492	0.060	17531933	0.5000	0.4653	
6 Sulfate	9.540	9.503	0.037	53618437	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

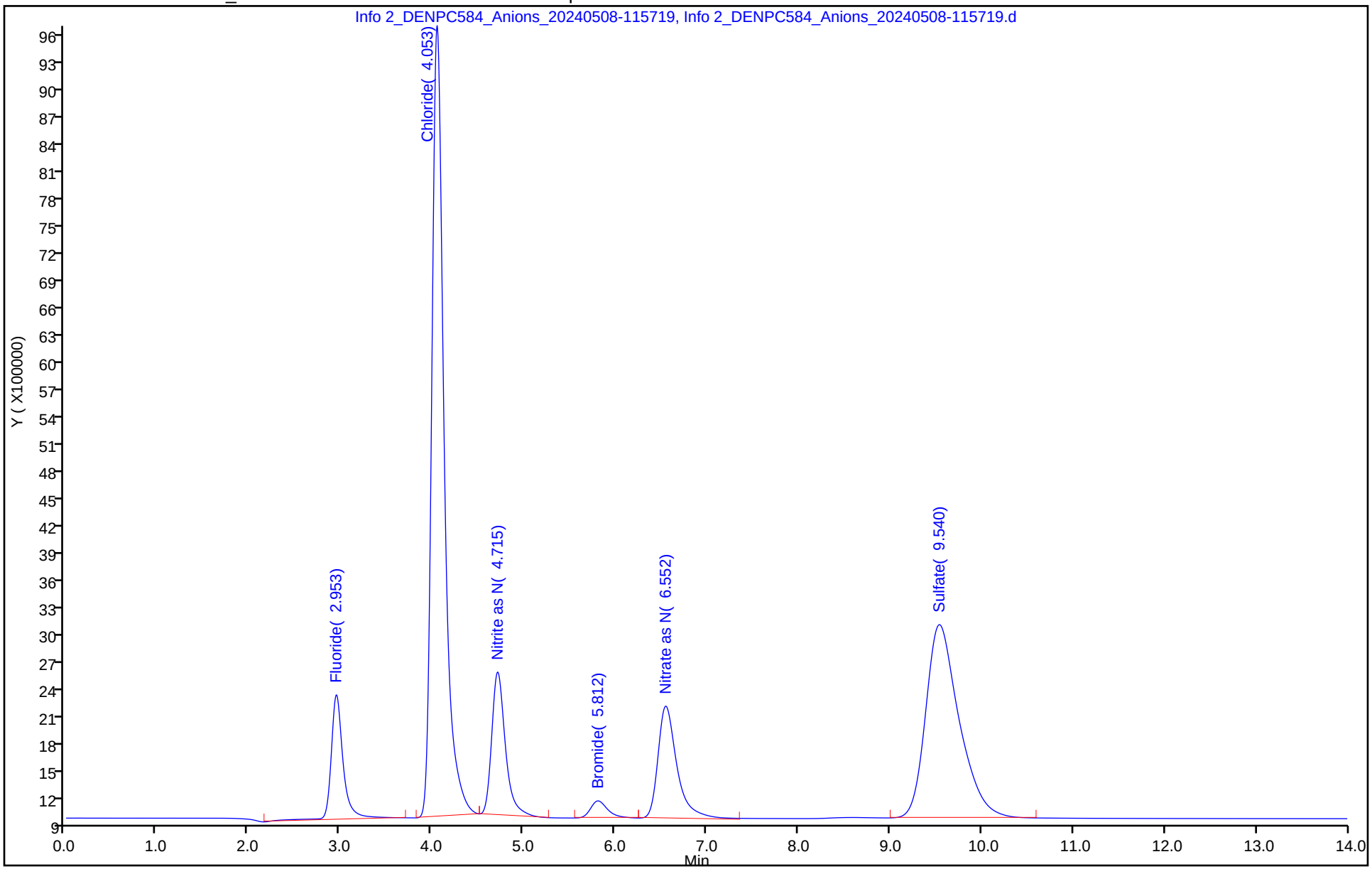
Reagents:

IC Cal low_00775	Amount Added:	0.10	Units: mL
IC CAL cl/so4_00535	Amount Added:	0.20	Units: mL

Report Date: 09-May-2024 10:01:07 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Info 2_DENPC584_Anions_20240508-115719.d				
Injection Date:	08-May-2024 11:40:00	Instrument ID:	WC_IonChrom14	Operator ID:	wetchemd
Lims ID:	MRL			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC14	Limit Group:	Wet - Anions		



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Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Info 2_DENPC584_Anions_20240508-121				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	08-May-2024 11:57:00	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS				
Misc. Info.:	LCS				
Operator ID:	wetchemd	Instrument ID:	WC_IonChrom14		
Method:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Anions_IC14.m				
Limit Group:	Wet - Anions				
Last Update:	09-May-2024 10:01:04	Calib Date:	21-Feb-2024 14:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144				
Column 1 :			Det: 0005		
Process Host:	CTX1610				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.952	2.963	-0.011	137308733	NC	NC	
2 Chloride	4.085	4.098	-0.013	1600115642	NC	NC	
3 Nitrite as N	4.700	4.713	-0.013	171538882	5.00	4.81	
4 Bromide	5.770	5.778	-0.008	29408568	NC	NC	
5 Nitrate as N	6.483	6.492	-0.009	219254389	5.00	4.94	
6 Sulfate	9.490	9.503	-0.013	1193363230	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

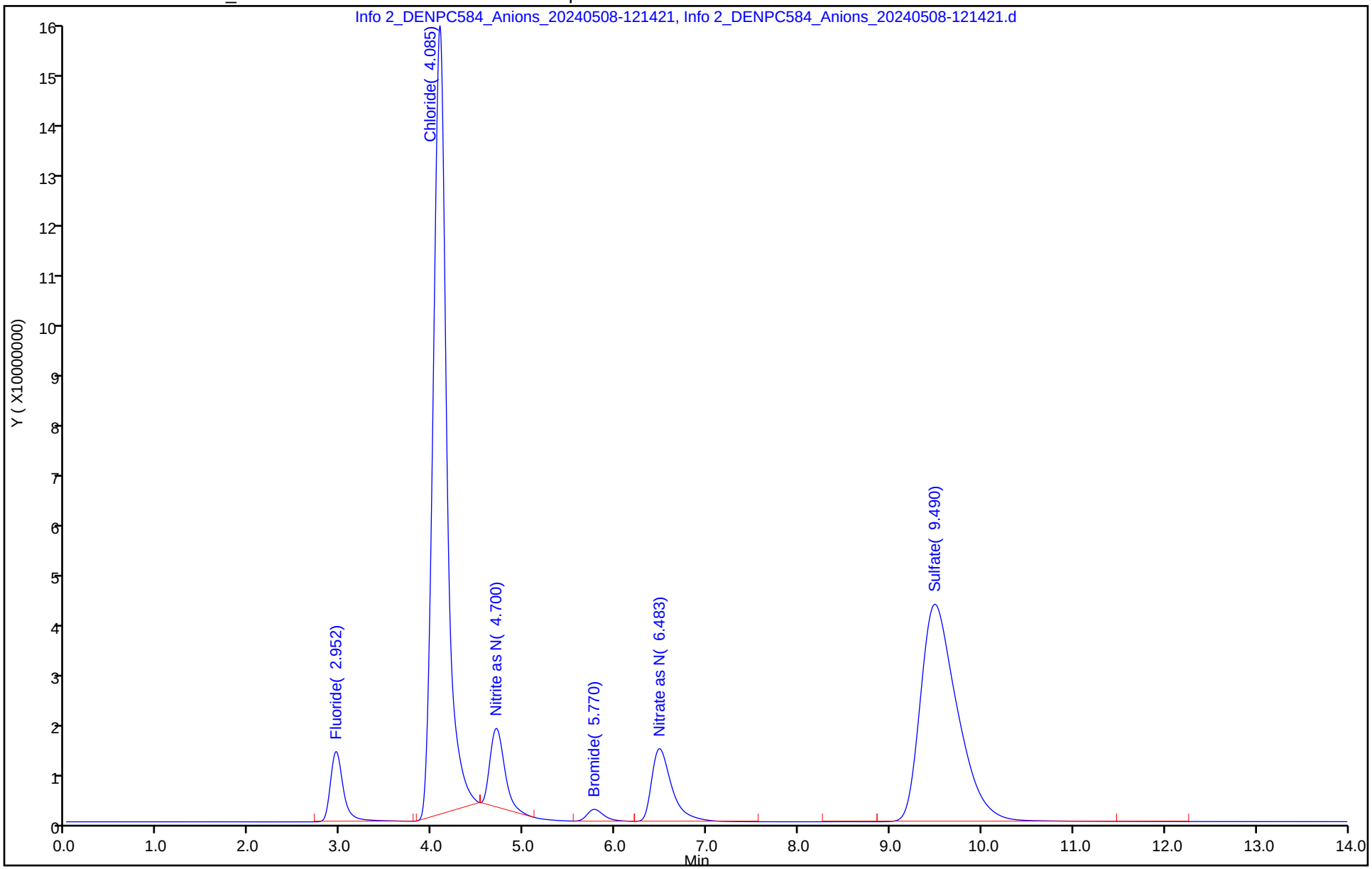
Reagents:

IC LCS_02037 Amount Added: 10.00 Units: mL

Report Date: 09-May-2024 10:01:07 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Info 2_DENPC584_Anions_20240508-121421.d				
Injection Date:	08-May-2024 11:57:00	Instrument ID:	WC_IonChrom14	Operator ID:	wetchemd
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC14	Limit Group:	Wet - Anions		



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Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Info 2_DENPC584_Anions_20240508-123				
Lims ID:	LCSD				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	08-May-2024 12:14:00	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCSD				
Misc. Info.:	LCSD				
Operator ID:	wetchemd	Instrument ID:	WC_IonChrom14		
Method:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Anions_IC14.m				
Limit Group:	Wet - Anions				
Last Update:	09-May-2024 10:01:04	Calib Date:	21-Feb-2024 14:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144				
Column 1 :			Det: 0005		
Process Host:	CTX1610				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.955	2.963	-0.008	136514851	NC	NC	
2 Chloride	4.090	4.098	-0.008	1603865920	NC	NC	
3 Nitrite as N	4.705	4.713	-0.008	174998911	5.00	4.91	
4 Bromide	5.777	5.778	-0.001	29886128	NC	NC	
5 Nitrate as N	6.502	6.492	0.010	218702655	5.00	4.92	
6 Sulfate	9.512	9.503	0.009	1187437590	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

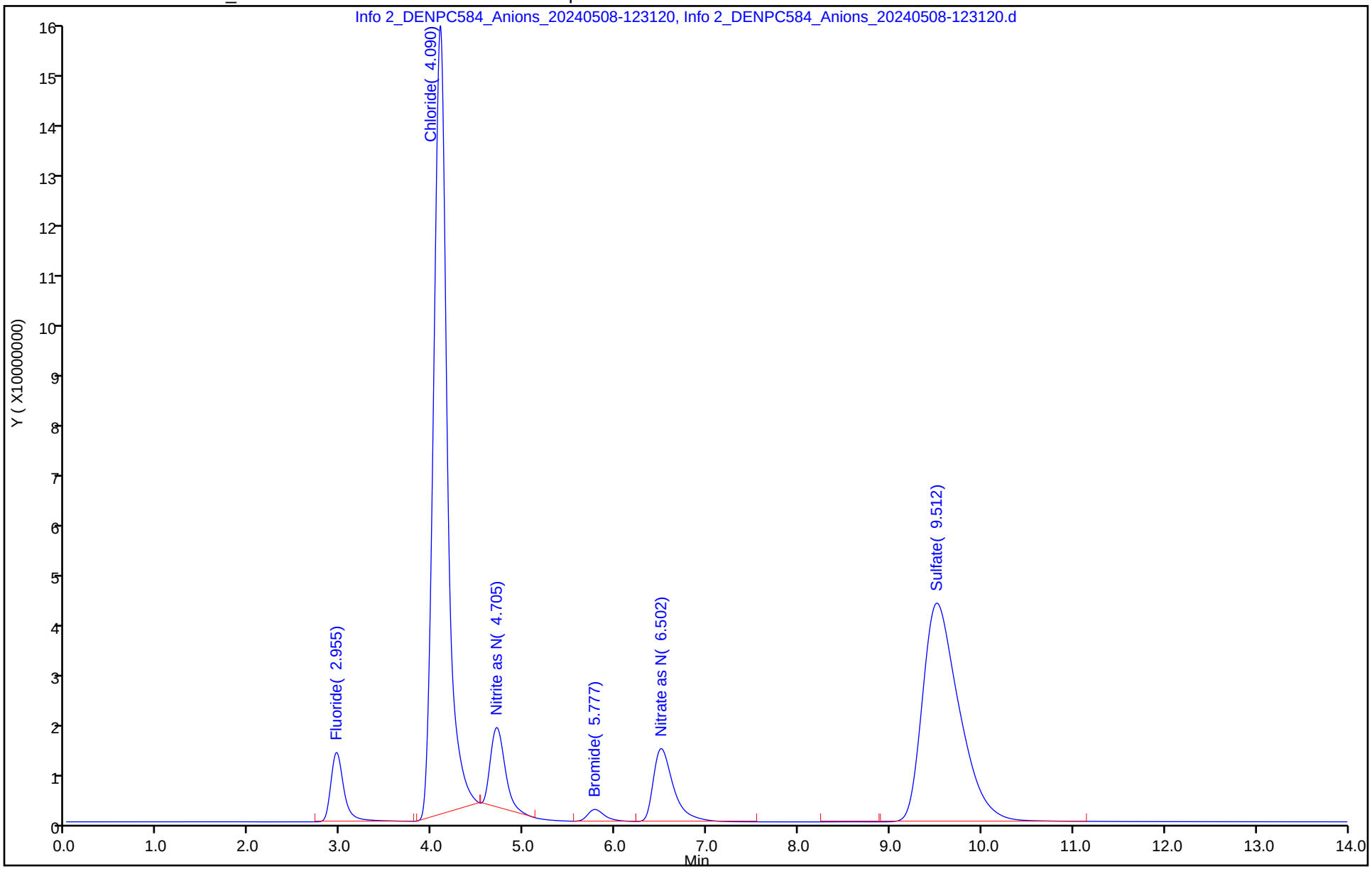
Reagents:

IC LCS_02037 Amount Added: 10.00 Units: mL

Report Date: 09-May-2024 10:01:08 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Info 2_DENPC584_Anions_20240508-123120.d				
Injection Date:	08-May-2024 12:14:00	Instrument ID:	WC_IonChrom14	Operator ID:	wetchemd
Lims ID:	LCSD			Worklist Smp#:	5
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC14	Limit Group:	Wet - Anions		



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Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Info 2_DENPC584_Anions_20240508-124				
Lims ID:	mb				
Client ID:					
Sample Type:	MB				
Inject. Date:	08-May-2024 12:31:00	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Sample Info:	MB				
Misc. Info.:	MB				
Operator ID:	wetchemd	Instrument ID:	WC_IonChrom14		
Method:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Anions_IC14.m				
Limit Group:	Wet - Anions				
Last Update:	09-May-2024 10:01:04	Calib Date:	21-Feb-2024 14:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144				
Column 1 :			Det: 0005		
Process Host:	CTX1610				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.973	2.963	0.010	373857			NC
2 Chloride		4.098				ND	
3 Nitrite as N		4.713				ND	
4 Bromide		5.778				ND	
5 Nitrate as N		6.492				ND	
7 Orthophosphate as P		8.227				ND	
6 Sulfate		9.503				ND	

QC Flag Legend

Processing Flags

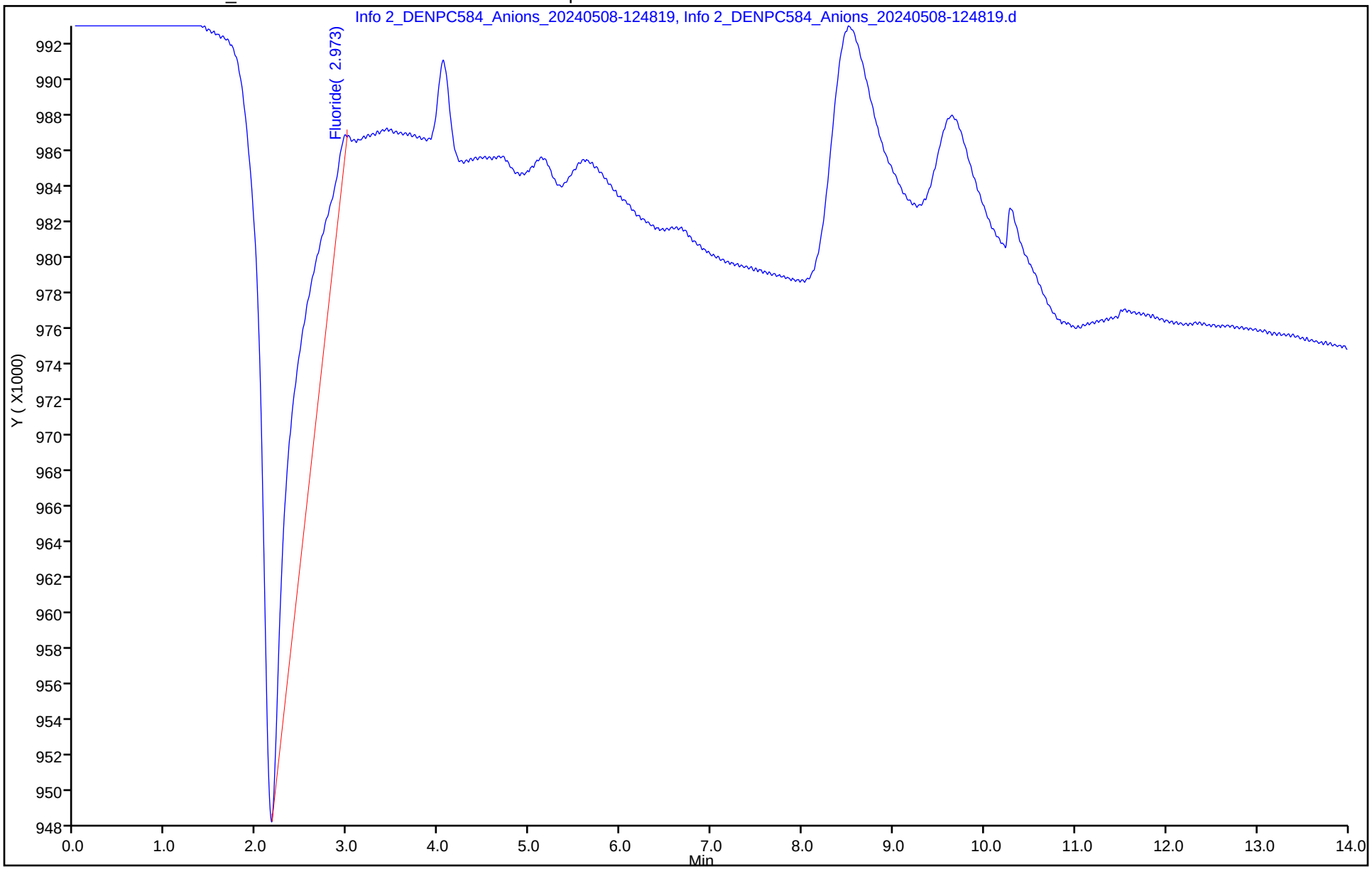
NC - Not Calibrated

Report Date: 09-May-2024 10:01:10 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Info 2_DENPC584_Anions_20240508-124819.d

Injection Date:	08-May-2024 12:31:00	Instrument ID:	WC_IonChrom14	Operator ID:	wetchemd
Lims ID:	mb			Worklist Smp#:	6
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC14	Limit Group:	Wet - Anions		



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Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Info 2_DENPC584_Anions_20240508-220
Lims ID: 280-191168-A-1
Client ID: FWGmw-018-240401-GW
Sample Type: Client
Inject. Date: 08-May-2024 21:48:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-191168-A-1
Misc. Info.: 280-191168-A-1
Operator ID: wetchemd Instrument ID: WC_IonChrom14

Method: \\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Anions_IC14.m
Limit Group: Wet - Anions
Last Update: 09-May-2024 10:01:04 Calib Date: 21-Feb-2024 14:22:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144

Column 1 : Det: 0005
Process Host: CTX1610

First Level Reviewer: R4BB Date: 09-May-2024 09:58:12

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride	2.958	2.963	-0.005	3245769	NC	
2 Chloride	4.063	4.098	-0.035	53992338	NC	
3 Nitrite as N		4.713			ND	
4 Bromide	5.947	5.778	0.169	155245	NC	
5 Nitrate as N	6.715	6.492	0.223	142132	0.0799	
7 Orthophosphate as P		8.227			ND	
6 Sulfate	9.628	9.503	0.125	961850648	NC	

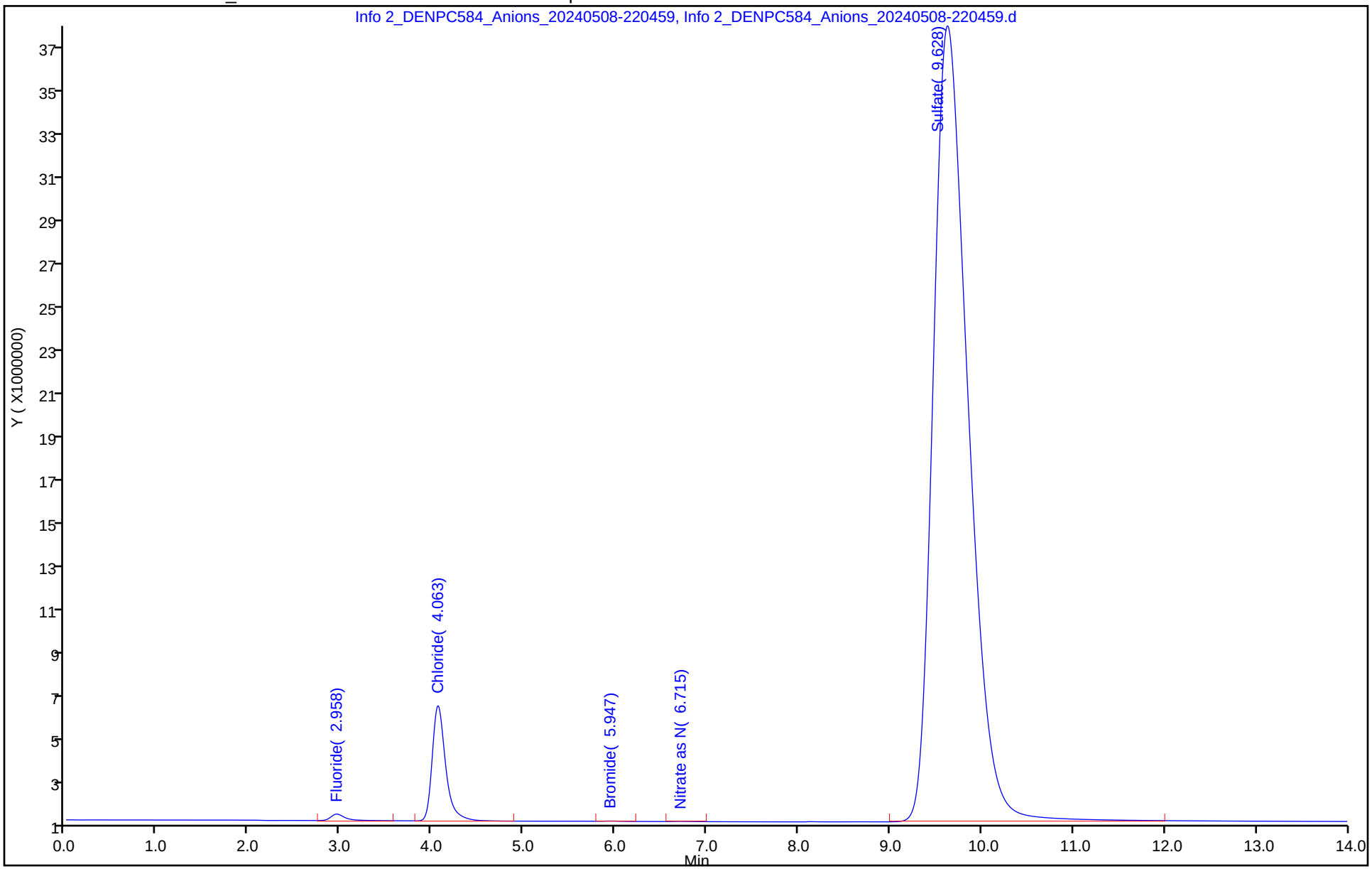
QC Flag Legend

Processing Flags
NC - Not Calibrated

Report Date: 09-May-2024 10:01:12 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Info 2_DENPC584_Anions_20240508-220459.d				
Injection Date:	08-May-2024 21:48:00	Instrument ID:	WC_IonChrom14	Operator ID:	wetchemd
Lims ID:	280-191168-A-1	Lab Sample ID:	280-191168-1	Worklist Smp#:	9
Client ID:	FWGmw-018-240401-GW				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC14	Limit Group:	Wet - Anions		



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Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Info 2_DENPC584_Anions_20240509-011				
Lims ID:	ccv				
Client ID:					
Sample Type:	CCV				
Inject. Date:	09-May-2024 00:55:00	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV				
Misc. Info.:	CCV				
Operator ID:	wetchemd	Instrument ID:	WC_IonChrom14		
Sublist:	chrom-Anions_IC14*sub10				
Method:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Anions_IC14.m				
Limit Group:	Wet - Anions				
Last Update:	09-May-2024 10:01:19	Calib Date:	21-Feb-2024 14:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144				
Column 1 :			Det: 0005		
Process Host:	CTX1610				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.958	2.963	-0.005	144170736	NC	NC	
2 Chloride	4.095	4.098	-0.003	1629121640	NC	NC	
3 Nitrite as N	4.717	4.713	0.004	170637786	5.00	4.79	
4 Bromide	5.803	5.778	0.025	29893051	NC	NC	
5 Nitrate as N	6.522	6.492	0.030	218057518	5.00	4.91	
6 Sulfate	9.522	9.503	0.019	1207703145	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

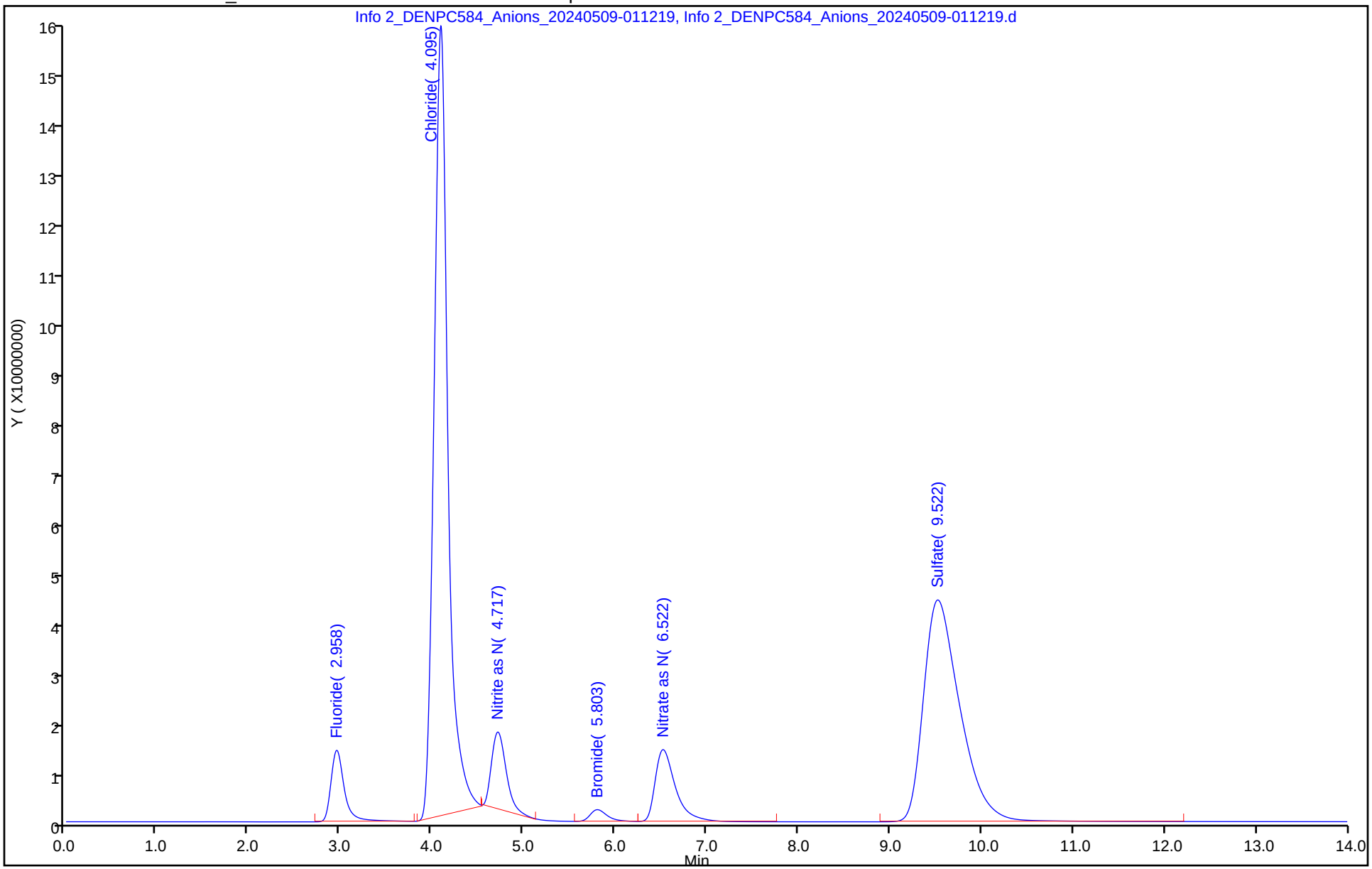
Reagents:

IC LCS_02037 Amount Added: 10.00 Units: mL

Report Date: 09-May-2024 10:01:19 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Info 2_DENPC584_Anions_20240509-011219.d				
Injection Date:	09-May-2024 00:55:00	Instrument ID:	WC_IonChrom14	Operator ID:	wetchemd
Lims ID:	ccv			Worklist Smp#:	20
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC14	Limit Group:	Wet - Anions		



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Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Info 2_DENPC584_Anions_20240509-012				
Lims ID:	ccb				
Client ID:					
Sample Type:	CCB				
Inject. Date:	09-May-2024 01:12:00	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCB				
Misc. Info.:	CCB				
Operator ID:	wetchemd	Instrument ID:	WC_IonChrom14		
Method:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Anions_IC14.m				
Limit Group:	Wet - Anions				
Last Update:	09-May-2024 10:01:19	Calib Date:	21-Feb-2024 14:22:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\WC_IonChrom14\20240220-130421.b\Info 2_DENPC584_Anions_20240221-144				
Column 1 :			Det: 0005		
Process Host:	CTX1610				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.500	2.963	-0.463	101486			NC
2 Chloride		4.098				ND	
3 Nitrite as N		4.713				ND	
4 Bromide		5.778				ND	
5 Nitrate as N		6.492				ND	
7 Orthophosphate as P		8.227				ND	
6 Sulfate		9.503				ND	

QC Flag Legend

Processing Flags

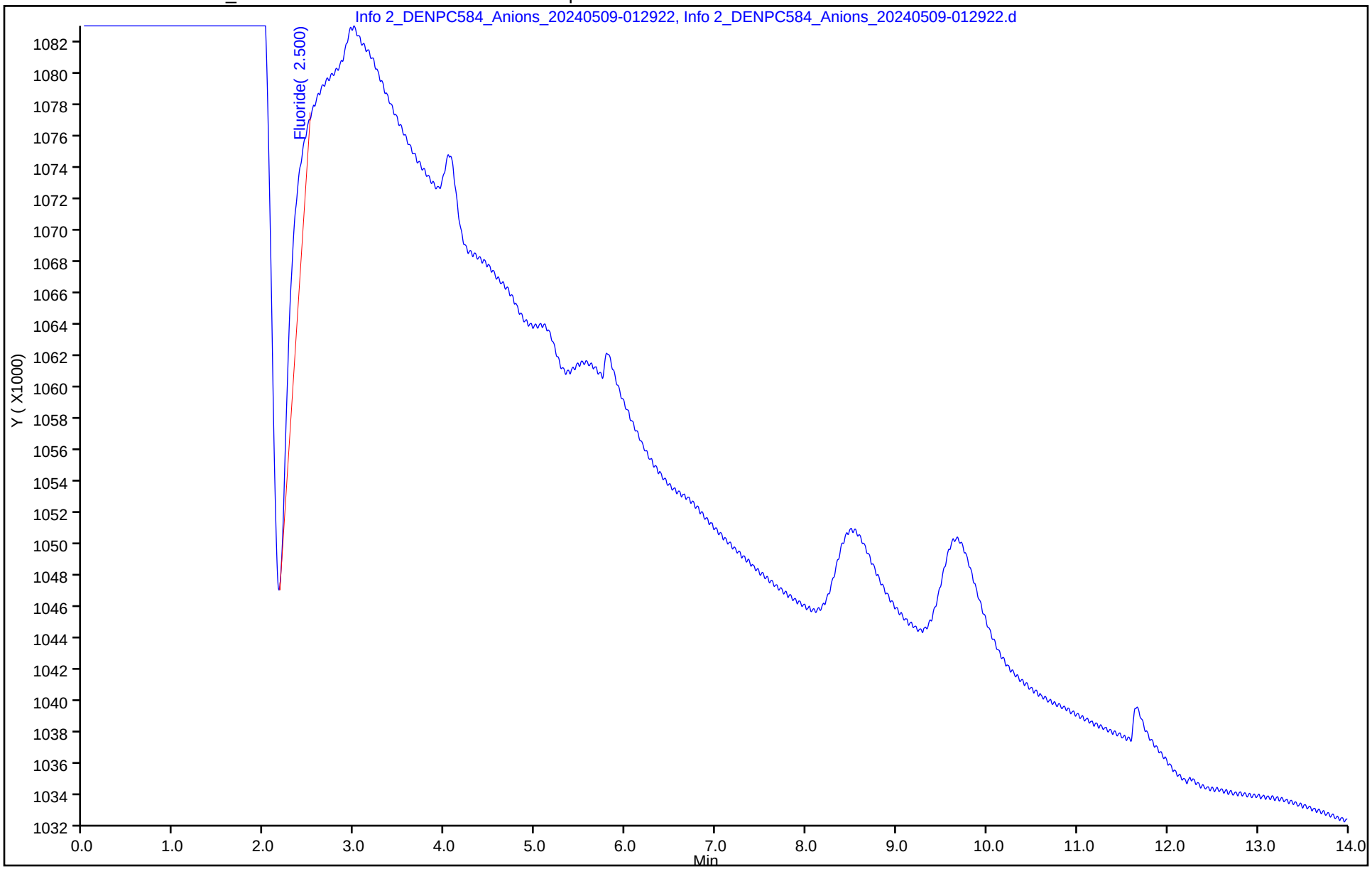
NC - Not Calibrated

Report Date: 09-May-2024 10:01:20 Chrom Revision: 2.3 01-May-2024 15:52:26

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom14\20240508-133146.b\Info 2_DENPC584_Anions_20240509-012922.d

Injection Date:	09-May-2024 01:12:00	Instrument ID:	WC_IonChrom14	Operator ID:	wetchemd
Lims ID:	ccb			Worklist Smp#:	21
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC14	Limit Group:	Wet - Anions		



5/21/2024
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Shipping and Receiving Documents

leidos

Chain of Custody Record

Page 1 of 5

COC No.: 280-191168 Chain of Custody

Date: 5/11/24

Name Leidos
Address: 8866 Commons Blvd. Suite 201, Twinsburg, OH 44087
Phone Number: (330) 405-5802
Project Manager: Jed Thomas
Project: RVAAP FWGW Sampling Event Spring 2024
Job/P.O. No.: P010216426
Sampler (Signature) (Printed Name)

KATIE LEE

Laboratory Name: TA- Denver
Address: 4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0107
Contact: Patrick McEntee

Laboratory No	Sample ID	Site Type	Depth	Date	Time	Matrix	Requested Parameters: VOCs (1)(B)	Nitrate (10)(A)	Temperature Blank	Total Number of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
	FWGmw-018-240401-GW			5/7/24	0925	W		1		1	

CS 5/7/24

Relinquished by	Date	Received by	Date	Notes: Total Number of Containers:	1
Signature: Katie Lee	5/7/24	Signature: Matthew Hall	5/08/24	A. Cool, 4C	
Printed Name: Charles Spurr	Time: 1800	Printed Name:	Time: 1025	B. HCl, pH<2, Cool, 4C	
Company: Leidos		Company: EETPEN		C. HNO3, pH<2, Cool, 4C	
				D. NaOH, pH>12, Cool 4C	
Relinquished by	Date	Received by	Date	1. SW 8260B Notes:	
Signature		Signature		2. SW 8270D	
Printed Name	Time	Printed Name	Time	3. SW 8270D SIM	
Company		Company		4. SW 8082A	
				5. SW 8081B	
				6. SW 8330	
				7. SW 6010/6020/7470	
				8. SW 9012B	
				9. SW 9034	
				10 SW 9056/9056A	
				11 SW 6860	
				12 EPA 353.2	
				13 SW 7196	
				14 SM2320B	

Shipment Method: ~~Courier~~ FedEx

7382 6401 0743

T: 0.4, 0.+2, 1.+0.2

Temperature Blank

Lab:
Leidos
8866 Commons Drive
Twinsburg, OH 44087
(330) 405-5802

Leidos

White Laboratory Pink Project Manager Yellow Project QAO Goldenrod Field Project Manager

Chain of Custody Record

leidos

Page 2 of 5

COC No.: RVAAP-441-TA

Date: 5/7/24

Name Leidos
Address: 8866 Commons Blvd. Suite 201, Twinsburg, OH 44087
Phone Number: (330) 405-5802
Project Manager: Jed Thomas
Project: RVAAP FWGW Sampling Event Spring 2024
Job/P.O. No.: P010216426
Sampler (Signature) Melissa Rego (Printed Name) Melissa Rego

Laboratory Name: TA- Denver
Address: 4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0107
Contact: Patrick McEntee

Laboratory No	Sample ID	Site Type	Depth	Date	Time	Matrix	Requested Parameters: Explosives (6)(A)	Temperature Blank	Total Number of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
	FWGmw-021-240401-GW	-	-	5/7/24	1114	W	2		2	

MR 5/7/24

Relinquished by	Date	Received by	Date	Notes: Total Number of Containers: 2
Signature: Melissa Rego	5/7/24	Signature: Matthew Little	05/08/24	A. Cool, 4C B. HCl, pH<2, Cool, 4C C. HNO3, pH<2, Cool, 4C D. NaOH, pH>12, Cool 4C
Printed Name: Charles Spurr	Time: 1800	Printed Name: Matthew Little	Time: 0825	1. SW 8260B Notes: 2. SW 8270D 3. SW 8270D SIM 4. SW 8082A 5. SW 8081B
Company: Leidos		Company: EETDEN		6. SW 8330 7. SW 6010/6020/7470 8. SW 9012B 9. SW 9034 10. SW 9056/9056A 11. SW 6860 12. EPA 353.2 13. SW 7196 14. SM2320B
Relinquished by	Date	Received by	Date	
Signature		Signature		
Printed Name	Time	Printed Name	Time	
Company		Company		

Shipment Method: ~~Courier~~

Temperature Blank

Lab:
Leidos
8866 Commons Drive
Twinsburg, OH 44087
(330) 405-5802

Leidos White Laboratory Pink Project Manager Yellow Project QAO Goldenrod Field Project Manager

Chain of Custody Record

leidos

COC No.: RVAAP-441 -TA

Date: 5/7/24

Name Leidos
Address: 8866 Commons Blvd. Suite 201, Twinsburg, OH 44087
Phone Number: (330) 405-5802
Project Manager: Jed Thomas
Project: RVAAP FWGW Sampling Event Spring 2024
Job/P.O. No.: P010216426
Sampler (Signature) Melissa Rego (Printed Name) Melissa Rego

Laboratory Name: TA- Denver
Address: 4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0107
Contact: Patrick McEntee

Requested Parameters

Laboratory No	Sample ID	Site Type	Depth	Date	Time	Matrix	Explosives (6)(A)	Temperature Blank	Total Number of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
	FWGmw-024-240401-GW	-	-	5/7/24	1308	W	2		2	

MR 5/7/24

Relinquished by	Date	Received by	Date	Notes:	Total Number of Containers:	2
Signature	5/7/24	Signature	5/8/24	A. Cool, 4C B. HCl, pH<2, Cool, 4C C. HNO3, pH<2, Cool, 4C D. NaOH, pH>12, Cool 4C		
Charles Spurr	Time	Nathaniel Etnoyer	Time	1. SW 8260B Notes:		
Printed Name	1800	Printed Name	1825	2. SW 8270D 3. SW 8270D SIM 4. SW 8082A 5. SW 8081B		
Leidos				6. SW 8330 7. SW 6010/6020/7470 8. SW 9012B 9. SW 9034 10. SW 9056/9056A 11. SW 6860 12. EPA 353.2 13. SW 7196 14. SM2320B		
Company		Company				
Relinquished by	Date	Received by	Date			
Signature		Signature				
Printed Name	Time	Printed Name	Time			
Company		Company				

Shipment Method: ~~Courier~~

Temperature Blank

Lab:
Leidos
8866 Commons Drive
Twinsburg, OH 44087
(330) 405-5802

Leidos

White: Laboratory Pink. Project Manager Yellow: Project QAO Goldenrod: Field Project Manager

leidos

Chain of Custody Record

Page 4 of 5

COC No.: RVAAP-441 -TA

Date: 5/7/24

Name Leidos
Address: 8866 Commons Blvd. Suite 201, Twinsburg, OH 44087
Phone Number: (330) 405-5802
Project Manager: Jed Thomas
Project: RVAAP FWGW Sampling Event Spring 2024
Job/P.O. No.: P010216426
Sampler (Signature) (Printed Name)

KATIE LEE

Laboratory Name: TA- Denver
Address: 4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0107
Contact: Patrick McEntee

Laboratory No	Sample ID	Site Type	Depth	Date	Time	Matrix	Requested Parameters: Explosives (6)(A)	Temperature Blank	Total Number of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
	LL3mw-245-240401-GW			5/7/24	1410	W	2		2	

5/7/24

Relinquished by	Date	Received by	Date	Time
Signature	5/7/24	Signature	05/08/24	
Charles Spurr	Time 1800	Printed Name	Time 1624	
Printed Name		Company	1025	
Leidos				
Company				
Relinquished by	Date	Received by	Date 5/9/24	
Signature		Signature		
Printed Name	Time	Printed Name	Time	
Company		Company		

Notes:
Total Number of Containers: 2

A. Cool, 4C
B. HCl, pH<2, Cool, 4C
C. HNO3, pH<2, Cool, 4C
D. NaOH, pH>12, Cool 4C

Notes:
1. SW 8260B
2. SW 8270D
3. SW 8270D SIM
4. SW 8082A
5. SW 8081B
6. SW 8330
7. SW 6010/6020/7470
8. SW 9012B
9. SW 9034
10. SW 9056/9056A
11. SW 6860
12. EPA 353.2
13. SW 7196
14. SM2320B

Shipment Method: ~~Courier~~

Temperature Blank

Lab:
Leidos
8866 Commons Drive
Twinsburg, OH 44087
(330) 405-5802

Leidos

White Laboratory Pink Project Manager Yellow Project QAO Goldenrod Field Project Manager

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Chain of Custody Record

COC No.: RVAAP-441-TA

Date: 5/7/24

Name Leidos
Address: 8866 Commons Blvd Suite 201, Twinsburg, OH 44087
Phone Number: (330) 405-5802
Project Manager: Jed Thomas
Project: RVAAP FWGW Sampling Event Spring 2024
Job/P.O. No.: P010216426
Sampler (Signature) Melissa Rego (Printed Name) Melissa Rego

Laboratory Name: TA- Denver
Address: 4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0107
Contact: Patrick McEntee

Requested Parameters

Laboratory No	Sample ID	Site Type	Depth	Date	Time	Matrix	VOCs (1)(B) CCl4 only	Temperature Blank	Total Number of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
	LL10mw-003-240401-GW	—	—	5/7/24	1455	W	3		3	Carbon tetrachloride only
	FWGTB-240401-TB002	—	—	5/7/24	1400	W	2		2	trip blank

MR 5/7/24

Relinquished by	Date	Received by	Date	Notes: Total Number of Containers: 5	Shipment Method: ~~Courier~~
Signature: Charles Spurr	5/7/24	Signature: Matthew White	05/08/24	A. Cool, 4C B. HCl, pH<2, Cool, 4C C. ~~HNO3~~, pH<2, Cool, 4C D. NaOH, pH>12, Cool 4C	
Printed Name: Charles Spurr	Time: 1800	Printed Name: Matthew White	Time: 1025	1. SW 8260B Notes: 2. SW 8270D 3. SW 8270D SIM 4. SW 8082A 5. SW 8081B	
Company: Leidos		Company: EETDEN		6. SW 8330 7. SW 6010/6020/7470 8. SW 9012B 9. SW 9034 10. SW 9056/9056A	
Relinquished by	Date	Received by	Date	11. SW 6860 12. EPA 353.2 13. SW 7196 14. SM2320B	Temperature Blank
Signature		Signature			Lab: Leidos 8866 Commons Drive Twinsburg, OH 44087 (330) 405-5802
Printed Name	Time	Printed Name	Time		
Company		Company			

Leidos White Laboratory Pink Project Manager Yellow Project QAO Goldenrod Field Project Manager

ORIGIN ID:SKYA (330) 405-9810
RYAN LAURICH
LEIDOS
8866 COMMONS BLVD
SUITE 201
TWINSBURG, OH 44087
UNITED STATES US

SHIP DATE: 02MAY24
ACTWGT: 60.00 LB
CAD: 0916735/CAFE3755

TO **EUROFINS ENVIRONMENT TESTING ARVADA**
EUROFINS ENVIRONMENT TESTING
4955 YARROW ST.
ARVADA CO 80002
(303) 736-0100
INV.
PO:
REF: PREPAID LABEL
DEPT:

5833J/C137/9AE3

RMA:

FedEx Express

J242024032601uv

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PRIORITY OVERNIGHT

TRK# 0223 **7382 6401 0743**

80002

CO-US

280-191168 Waybill

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Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 280-191168-1

Login Number: 191168
List Number: 1
Creator: Little, Matthew L

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	