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ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RVAAP FWGW

JOB NUMBER

280-176591-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

Eurofins Denver

Job Notes

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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.

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Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
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
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
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

CASE NARRATIVE

Client: Leidos, Inc.

Project: RVAAP FWGW

Report Number: 280-176591-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 5/17/2023 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.3º C and 2.2º C.

EXPLOSIVES (HPLC)

Samples WBGmw-014-230401-GW (280-176591-1), WBGmw-006-230401-GW (280-176591-2), WBGmw-021-230401-GW (280-176591-3), WBGmw-009-230401-GW (280-176591-4), WBGmw-020-230401-GW (280-176591-5), WBGmw-018-230401-GW (280-176591-6), WBGMW-RBmw-018-2023 (280-176591-7), WBGmw-016-230401-GW (280-176591-8) and WBGmw-017-230401-GW (280-176591-9) were analyzed for Explosives (HPLC) in accordance with 8330B. The samples were prepared on 05/18/2023 and analyzed on 05/19/2023 and 05/20/2023.

The %RPD between the primary and confirmation column exceeded 40% for o-Nitrotoluene and RDX for the following samples: WBGmw-020-230401-GW (280-176591-5) and WBGmw-018-230401-GW (280-176591-6) in preparation batch 280-612937 and analytical batch 280-613045. The results from both columns has been qualified and reported in accordance with the laboratory's QAS.

The laboratory control sample (LCS) for preparation batch 280-612937 and analytical batch 280-613045 recovered outside control limits for the following analytes:m-Nitrotoluene(73-125%R) at 72%R. The LCS recovered within control limit in the confirmation instrument. m-Nitrotoluene is ND in both primary and confirmation instrument. The associated samples are impacted: WBGmw-014-230401-GW (280-176591-1), WBGmw-006-230401-GW (280-176591-2), WBGmw-021-230401-GW (280-176591-3), WBGmw-009-230401-GW (280-176591-4), WBGmw-020-230401-GW (280-176591-5), WBGmw-018-230401-GW (280-176591-6), WBGMW-RBmw-018-2023 (280-176591-7), WBGmw-016-230401-GW (280-176591-8) and WBGmw-017-230401-GW (280-176591-9).

In preparation batch 280-612937, the following samples required filtration to reduce matrix interferences: WBGmw-020-230401-GW (280-176591-5) and WBGmw-017-230401-GW (280-176591-9).

In preparation batch 280-612937, the following sample: WBGmw-016-230401-GW (280-176591-8) was decanted prior to preparation.

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

ALKALINITY

Samples WBGmw-006-230401-GW (280-176591-2), WBGmw-009-230401-GW (280-176591-4), WBGmw-018-230401-GW (280-176591-6) and WBGMW-RBmw-018-2023 (280-176591-7) were analyzed for Alkalinity in accordance with SM20 2320B. The samples were analyzed on 05/19/2023.

Alkalinity was detected in method blank MB 280-613263/33 at a level that was less than ½ the limit of quantitation (LOQ). The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or LOQ, the result has been flagged.

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

SULFIDE

Samples WBGmw-006-230401-GW (280-176591-2), WBGmw-009-230401-GW (280-176591-4), WBGmw-018-230401-GW (280-176591-6) and WBGMW-RBmw-018-2023 (280-176591-7) were analyzed for sulfide in accordance with EPA SW-846 Method 9034. The samples were prepared and analyzed on 05/19/2023.

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

ANIONS, ION CHROMATOGRAPHY

Samples WBGmw-006-230401-GW (280-176591-2), WBGmw-009-230401-GW (280-176591-4), WBGmw-018-230401-GW (280-176591-6) and WBGMW-RBmw-018-2023 (280-176591-7) were analyzed for Anions, Ion Chromatography in accordance with 9056A (48 Hours). The samples were analyzed on 05/17/2023 and 05/18/2023.

Due to the concentration of nitrate in the spiked sample, the matrix spike/ matrix spike duplicate result was higher than the highest calibration point for this analyte. The % recoveries were within % recovery limits so the results have been qualified and reported. WBGMW-RBmw-018-2023 (280-176591-7), (280-176591-C-7 MS) and (280-176591-C-7 MSD).

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

ANIONS (28 DAYS)

Samples WBGmw-006-230401-GW (280-176591-2), WBGmw-009-230401-GW (280-176591-4), WBGmw-018-230401-GW (280-176591-6) and WBGMW-RBmw-018-2023 (280-176591-7) were analyzed for anions (28 days) in accordance with 9056A (28 Days). The samples were analyzed on 05/17/2023 and 05/18/2023.

Sulfate failed the recovery criteria low for the MS/MSD of sample WBGMW-RBmw-018-2023MS (280-176591-7) in batch 280-612809.

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

TOTAL ORGANIC CARBON

Samples WBGmw-006-230401-GW (280-176591-2), WBGmw-009-230401-GW (280-176591-4), WBGmw-018-230401-GW (280-176591-6) and WBGMW-RBmw-018-2023 (280-176591-7) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060. The samples were analyzed on 06/01/2023.

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

Detection Summary

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

Job ID: 280-176591-1

Client Sample ID: WBGmw-014-230401-GW — Lab Sample ID: 280-176591-1

No Detections.

Client Sample ID: WBGmw-006-230401-GW — Lab Sample ID: 280-176591-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
HMX	3.0	M	0.22	0.20	0.090	ug/L	1		8330B	Total/NA
MNX	0.43	J M	0.51	0.30	0.095	ug/L	1		8330B	Total/NA
RDX	7.8	M	0.22	0.20	0.053	ug/L	1		8330B	Total/NA
Sulfate	24	M	5.0	2.5	1.0	mg/L	1		9056A	Total/NA
Total Organic Carbon - Average	2.0		1.0	0.80	0.35	mg/L	1		9060	Total/NA
Alkalinity	270		10	6.4	3.1	mg/L	1		SM 2320B	Total/NA

Client Sample ID: WBGmw-021-230401-GW — Lab Sample ID: 280-176591-3

No Detections.

Client Sample ID: WBGmw-009-230401-GW — Lab Sample ID: 280-176591-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
HMX	0.73	M	0.23	0.22	0.095	ug/L	1		8330B	Total/NA
RDX	1.8	M	0.23	0.22	0.056	ug/L	1		8330B	Total/NA
Nitrate as N	0.35	J M	0.50	0.20	0.090	mg/L	1		9056	Total/NA
Sulfate	15	M	5.0	2.5	1.0	mg/L	1		9056A	Total/NA
Total Organic Carbon - Average	0.85	J	1.0	0.80	0.35	mg/L	1		9060	Total/NA
Alkalinity	180		10	6.4	3.1	mg/L	1		SM 2320B	Total/NA

Client Sample ID: WBGmw-020-230401-GW — Lab Sample ID: 280-176591-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
2-Nitrotoluene	0.21	J1	0.21	0.20	0.086	ug/L	1		8330B	Total/NA
2-Nitrotoluene	2.2	J1	0.21	0.20	0.086	ug/L	1		8330B	Total/NA
RDX	0.59	J1	0.21	0.20	0.052	ug/L	1		8330B	Total/NA
RDX	0.15	J J1	0.21	0.20	0.052	ug/L	1		8330B	Total/NA

Client Sample ID: WBGmw-018-230401-GW — Lab Sample ID: 280-176591-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
RDX	0.12	J J1	0.22	0.21	0.054	ug/L	1		8330B	Total/NA
RDX	2.0	J1	0.22	0.21	0.054	ug/L	1		8330B	Total/NA
Nitrate as N	0.45	J M	0.50	0.20	0.090	mg/L	1		9056	Total/NA
Sulfate	9.6	M	5.0	2.5	1.0	mg/L	1		9056A	Total/NA
Total Organic Carbon - Average	1.4		1.0	0.80	0.35	mg/L	1		9060	Total/NA
Alkalinity	49		10	6.4	3.1	mg/L	1		SM 2320B	Total/NA

Client Sample ID: WBGMW-RBmw-018-2023 — Lab Sample ID: 280-176591-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
RDX	0.13	J M	0.21	0.20	0.051	ug/L	1		8330B	Total/NA
Total Organic Carbon - Average	0.36	J	1.0	0.80	0.35	mg/L	1		9060	Total/NA
Alkalinity	4.7	J	10	6.4	3.1	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 280-176591-1

Client Sample ID: WBGmw-016-230401-GW — Lab Sample ID: 280-176591-8

No Detections.

Client Sample ID: WBGmw-017-230401-GW — Lab Sample ID: 280-176591-9

No Detections.

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: WBGmw-014-230401-GW
Date Collected: 05/16/23 13:13
Date Received: 05/17/23 09:20

Lab Sample ID: 280-176591-1
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.20	U	0.21	0.20	0.085	ug/L		05/19/23 03:07	1
1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037	ug/L		05/19/23 03:07	1
2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.046	ug/L		05/19/23 03:07	1
2,4-diamino-6-nitrotoluene	0.91	U	1.0	0.91	0.44	ug/L		05/19/23 03:07	1
2,4-Dinitrotoluene	0.081	U	0.10	0.081	0.028	ug/L		05/19/23 03:07	1
2,6-diamino-4-nitrotoluene	0.91	U M	1.0	0.91	0.22	ug/L		05/19/23 03:07	1
2,6-Dinitrotoluene	0.081	U	0.10	0.081	0.041	ug/L		05/19/23 03:07	1
2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051	ug/L		05/19/23 03:07	1
2-Nitrotoluene	0.20	U	0.21	0.20	0.087	ug/L		05/19/23 03:07	1
3,5-Dinitroaniline	0.30	U	0.41	0.30	0.13	ug/L		05/19/23 03:07	1
3-Nitrotoluene	0.35	U Q	0.41	0.35	0.20	ug/L		05/19/23 03:07	1
4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058	ug/L		05/19/23 03:07	1
4-Nitrotoluene	0.41	U	0.42	0.41	0.10	ug/L		05/19/23 03:07	1
DNX	0.25	U	0.51	0.25	0.098	ug/L		05/19/23 03:07	1
HMX	0.20	U	0.21	0.20	0.089	ug/L		05/19/23 03:07	1
MNX	0.29	U	0.51	0.29	0.094	ug/L		05/19/23 03:07	1
Nitrobenzene	0.20	U	0.21	0.20	0.092	ug/L		05/19/23 03:07	1
Nitroglycerin	2.0	U	2.1	2.0	0.93	ug/L		05/19/23 03:07	1
PETN	1.0	U	1.1	1.0	0.45	ug/L		05/19/23 03:07	1
RDX	0.20	U	0.21	0.20	0.052	ug/L		05/19/23 03:07	1
Tetryl	0.10	U	0.11	0.10	0.032	ug/L		05/19/23 03:07	1
TNX	0.25	U	0.51	0.25	0.080	ug/L		05/19/23 03:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*107*	*M*	*83 - 119*	*05/18/23 13:20*	*05/19/23 03:07*	*1*

Client Sample ID: WBGmw-006-230401-GW
Date Collected: 05/16/23 13:56
Date Received: 05/17/23 09:20

Lab Sample ID: 280-176591-2
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.20	U	0.22	0.20	0.086	ug/L		05/19/23 03:30	1
1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.038	ug/L		05/19/23 21:23	1
2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.046	ug/L		05/19/23 03:30	1
2,4-diamino-6-nitrotoluene	0.92	U	1.0	0.92	0.44	ug/L		05/19/23 03:30	1
2,4-Dinitrotoluene	0.082	U	0.10	0.082	0.028	ug/L		05/19/23 03:30	1
2,6-diamino-4-nitrotoluene	0.92	U	1.0	0.92	0.23	ug/L		05/19/23 03:30	1
2,6-Dinitrotoluene	0.082	U	0.10	0.082	0.041	ug/L		05/19/23 03:30	1
2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.052	ug/L		05/19/23 03:30	1
2-Nitrotoluene	0.20	U M	0.22	0.20	0.088	ug/L		05/19/23 03:30	1
3,5-Dinitroaniline	0.31	U	0.41	0.31	0.13	ug/L		05/19/23 03:30	1
3-Nitrotoluene	0.36	U Q	0.41	0.36	0.20	ug/L		05/19/23 03:30	1
4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.059	ug/L		05/19/23 03:30	1
4-Nitrotoluene	0.41	U	0.42	0.41	0.10	ug/L		05/19/23 03:30	1
DNX	0.26	U	0.51	0.26	0.10	ug/L		05/19/23 03:30	1
HMX	**3.0**	**M**	0.22	0.20	0.090	ug/L		05/19/23 03:30	1
MNX	**0.43**	**J M**	0.51	0.30	0.095	ug/L		05/19/23 03:30	1
Nitrobenzene	0.20	U	0.22	0.20	0.093	ug/L		05/19/23 03:30	1
Nitroglycerin	2.0	U	2.2	2.0	0.94	ug/L		05/19/23 03:30	1
PETN	1.0	U	1.1	1.0	0.46	ug/L		05/19/23 03:30	1
RDX	**7.8**	**M**	0.22	0.20	0.053	ug/L		05/19/23 03:30	1

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

Client Sample ID: WBGmw-006-230401-GW
Date Collected: 05/16/23 13:56
Date Received: 05/17/23 09:20

Lab Sample ID: 280-176591-2
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Tetryl	0.10	U	0.11	0.10	0.033	ug/L		05/19/23 03:30	1
TNX	0.26	U M	0.51	0.26	0.081	ug/L		05/19/23 03:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*101*		*83 - 119*	*05/18/23 13:20*	*05/19/23 03:30*	*1*
1,2-Dinitrobenzene	*93*		*83 - 119*	*05/18/23 13:20*	*05/19/23 21:23*	*1*

Client Sample ID: WBGmw-021-230401-GW
Date Collected: 05/16/23 13:08
Date Received: 05/17/23 09:20

Lab Sample ID: 280-176591-3
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.20	U	0.21	0.20	0.084	ug/L		05/19/23 03:53	1
1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037	ug/L		05/19/23 03:53	1
2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045	ug/L		05/19/23 03:53	1
2,4-diamino-6-nitrotoluene	0.90	U	1.0	0.90	0.44	ug/L		05/19/23 03:53	1
2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.028	ug/L		05/19/23 03:53	1
2,6-diamino-4-nitrotoluene	0.90	U	1.0	0.90	0.22	ug/L		05/19/23 03:53	1
2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040	ug/L		05/19/23 03:53	1
2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051	ug/L		05/19/23 03:53	1
2-Nitrotoluene	0.20	U	0.21	0.20	0.086	ug/L		05/19/23 03:53	1
3,5-Dinitroaniline	0.30	U	0.40	0.30	0.13	ug/L		05/19/23 03:53	1
3-Nitrotoluene	0.35	U Q	0.40	0.35	0.20	ug/L		05/19/23 03:53	1
4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058	ug/L		05/19/23 03:53	1
4-Nitrotoluene	0.40	U	0.41	0.40	0.10	ug/L		05/19/23 03:53	1
DNX	0.25	U	0.50	0.25	0.098	ug/L		05/19/23 03:53	1
HMX	0.20	U M	0.21	0.20	0.088	ug/L		05/19/23 03:53	1
MNX	0.29	U	0.50	0.29	0.093	ug/L		05/19/23 03:53	1
Nitrobenzene	0.20	U	0.21	0.20	0.091	ug/L		05/19/23 03:53	1
Nitroglycerin	2.0	U	2.1	2.0	0.92	ug/L		05/19/23 03:53	1
PETN	1.0	U	1.1	1.0	0.45	ug/L		05/19/23 03:53	1
RDX	0.20	U	0.21	0.20	0.052	ug/L		05/19/23 03:53	1
Tetryl	0.10	U	0.11	0.10	0.032	ug/L		05/19/23 03:53	1
TNX	0.25	U	0.50	0.25	0.080	ug/L		05/19/23 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*102*	*M*	*83 - 119*	*05/18/23 13:20*	*05/19/23 03:53*	*1*

Client Sample ID: WBGmw-009-230401-GW
Date Collected: 05/16/23 11:36
Date Received: 05/17/23 09:20

Lab Sample ID: 280-176591-4
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.22	U	0.23	0.22	0.092	ug/L		05/19/23 04:16	1
1,3-Dinitrobenzene	0.11	U	0.12	0.11	0.040	ug/L		05/19/23 04:16	1
2,4,6-Trinitrotoluene	0.11	U	0.12	0.11	0.049	ug/L		05/19/23 04:16	1
2,4-diamino-6-nitrotoluene	0.98	U	1.1	0.98	0.47	ug/L		05/19/23 04:16	1
2,4-Dinitrotoluene	0.087	U	0.11	0.087	0.030	ug/L		05/19/23 04:16	1
2,6-diamino-4-nitrotoluene	0.98	U	1.1	0.98	0.24	ug/L		05/19/23 04:16	1
2,6-Dinitrotoluene	0.087	U	0.11	0.087	0.044	ug/L		05/19/23 04:16	1
2-Amino-4,6-dinitrotoluene	0.11	U	0.12	0.11	0.055	ug/L		05/19/23 04:16	1
2-Nitrotoluene	0.22	U	0.23	0.22	0.093	ug/L		05/19/23 04:16	1

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

Client Sample ID: WBGmw-009-230401-GW
Date Collected: 05/16/23 11:36
Date Received: 05/17/23 09:20

Lab Sample ID: 280-176591-4
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
3,5-Dinitroaniline	0.33	U	0.44	0.33	0.14	ug/L		05/19/23 04:16	1
3-Nitrotoluene	0.38	U Q	0.44	0.38	0.21	ug/L		05/19/23 04:16	1
4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.063	ug/L		05/19/23 04:16	1
4-Nitrotoluene	0.44	U	0.45	0.44	0.11	ug/L		05/19/23 04:16	1
DNX	0.27	U	0.54	0.27	0.11	ug/L		05/19/23 04:16	1
HMX	**0.73**	**M**	0.23	0.22	0.095	ug/L		05/19/23 04:16	1
MNX	0.32	U M	0.54	0.32	0.10	ug/L		05/19/23 04:16	1
Nitrobenzene	0.22	U	0.23	0.22	0.099	ug/L		05/19/23 04:16	1
Nitroglycerin	2.2	U	2.3	2.2	1.0	ug/L		05/19/23 04:16	1
PETN	1.1	U	1.2	1.1	0.49	ug/L		05/19/23 04:16	1
RDX	**1.8**	**M**	0.23	0.22	0.056	ug/L		05/19/23 04:16	1
Tetryl	0.11	U	0.12	0.11	0.035	ug/L		05/19/23 04:16	1
TNX	0.27	U M	0.54	0.27	0.086	ug/L		05/19/23 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*102*	*M*	*83 - 119*	*05/18/23 13:20*	*05/19/23 04:16*	*1*
1,2-Dinitrobenzene	*89*		*83 - 119*	*05/18/23 13:20*	*05/19/23 22:33*	*1*

Client Sample ID: WBGmw-020-230401-GW
Date Collected: 05/16/23 10:32
Date Received: 05/17/23 09:20

Lab Sample ID: 280-176591-5
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.20	U	0.21	0.20	0.085	ug/L		05/19/23 04:39	1
1,3-Dinitrobenzene	0.10	U M	0.11	0.10	0.037	ug/L		05/19/23 04:39	1
2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045	ug/L		05/19/23 04:39	1
2,4-diamino-6-nitrotoluene	0.91	U	1.0	0.91	0.44	ug/L		05/19/23 04:39	1
2,4-Dinitrotoluene	0.081	U	0.10	0.081	0.028	ug/L		05/19/23 04:39	1
2,6-diamino-4-nitrotoluene	0.91	U	1.0	0.91	0.22	ug/L		05/19/23 04:39	1
2,6-Dinitrotoluene	0.081	U	0.10	0.081	0.040	ug/L		05/19/23 04:39	1
2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051	ug/L		05/19/23 04:39	1
2-Nitrotoluene	**0.21**	**J1**	0.21	0.20	0.086	ug/L		05/19/23 04:39	1
2-Nitrotoluene	**2.2**	**J1**	0.21	0.20	0.086	ug/L		05/19/23 23:08	1
3,5-Dinitroaniline	0.30	U	0.40	0.30	0.13	ug/L		05/19/23 04:39	1
3-Nitrotoluene	0.35	U Q	0.40	0.35	0.20	ug/L		05/19/23 04:39	1
4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058	ug/L		05/19/23 04:39	1
4-Nitrotoluene	0.40	U	0.41	0.40	0.10	ug/L		05/19/23 04:39	1
DNX	0.25	U	0.50	0.25	0.098	ug/L		05/19/23 04:39	1
HMX	0.20	U	0.21	0.20	0.088	ug/L		05/19/23 23:08	1
MNX	0.29	U	0.50	0.29	0.094	ug/L		05/19/23 23:08	1
Nitrobenzene	0.20	U	0.21	0.20	0.092	ug/L		05/19/23 04:39	1
Nitroglycerin	2.0	U	2.1	2.0	0.93	ug/L		05/19/23 04:39	1
PETN	1.0	U	1.1	1.0	0.45	ug/L		05/19/23 04:39	1
RDX	**0.59**	**J1**	0.21	0.20	0.052	ug/L		05/19/23 04:39	1
RDX	**0.15**	**J J1**	0.21	0.20	0.052	ug/L		05/19/23 23:08	1
Tetryl	0.10	U	0.11	0.10	0.032	ug/L		05/19/23 04:39	1
TNX	0.25	U M	0.50	0.25	0.080	ug/L		05/19/23 04:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*102*	*M*	*83 - 119*	*05/18/23 13:20*	*05/19/23 04:39*	*1*
1,2-Dinitrobenzene	*96*		*83 - 119*	*05/18/23 13:20*	*05/19/23 23:08*	*1*

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

Client Sample ID: WBGmw-018-230401-GW
Date Collected: 05/16/23 09:39
Date Received: 05/17/23 09:20

Lab Sample ID: 280-176591-6
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.21	U	0.22	0.21	0.089	ug/L		05/19/23 05:02	1
1,3-Dinitrobenzene	0.11	U M	0.12	0.11	0.039	ug/L		05/19/23 05:02	1
2,4,6-Trinitrotoluene	0.11	U M	0.12	0.11	0.048	ug/L		05/19/23 05:02	1
2,4-diamino-6-nitrotoluene	0.95	U	1.1	0.95	0.46	ug/L		05/20/23 00:18	1
2,4-Dinitrotoluene	0.085	U	0.11	0.085	0.029	ug/L		05/19/23 05:02	1
2,6-diamino-4-nitrotoluene	0.95	U	1.1	0.95	0.23	ug/L		05/19/23 05:02	1
2,6-Dinitrotoluene	0.085	U	0.11	0.085	0.042	ug/L		05/19/23 05:02	1
2-Amino-4,6-dinitrotoluene	0.11	U	0.12	0.11	0.054	ug/L		05/19/23 05:02	1
2-Nitrotoluene	0.21	U	0.22	0.21	0.090	ug/L		05/19/23 05:02	1
3,5-Dinitroaniline	0.32	U M	0.42	0.32	0.14	ug/L		05/19/23 05:02	1
3-Nitrotoluene	0.37	U Q M	0.42	0.37	0.21	ug/L		05/19/23 05:02	1
4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.061	ug/L		05/19/23 05:02	1
4-Nitrotoluene	0.42	U	0.43	0.42	0.11	ug/L		05/19/23 05:02	1
DNX	0.26	U	0.53	0.26	0.10	ug/L		05/19/23 05:02	1
HMX	0.21	U	0.22	0.21	0.093	ug/L		05/19/23 05:02	1
MNX	0.31	U M	0.53	0.31	0.098	ug/L		05/19/23 05:02	1
Nitrobenzene	0.21	U M	0.22	0.21	0.096	ug/L		05/19/23 05:02	1
Nitroglycerin	2.1	U M	2.2	2.1	0.97	ug/L		05/19/23 05:02	1
PETN	1.1	U M	1.2	1.1	0.47	ug/L		05/19/23 05:02	1
RDX	**0.12**	**J J1**	0.22	0.21	0.054	ug/L		05/19/23 05:02	1
RDX	**2.0**	**J1**	0.22	0.21	0.054	ug/L		05/20/23 00:18	1
Tetryl	0.11	U	0.12	0.11	0.034	ug/L		05/20/23 00:18	1
TNX	0.26	U M	0.53	0.26	0.084	ug/L		05/19/23 05:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*113*	*M*	*83 - 119*	*05/18/23 13:20*	*05/19/23 05:02*	*1*
1,2-Dinitrobenzene	*118*		*83 - 119*	*05/18/23 13:20*	*05/20/23 00:18*	*1*

Client Sample ID: WBGMW-RBmw-018-2023
Date Collected: 05/16/23 14:00
Date Received: 05/17/23 09:20

Lab Sample ID: 280-176591-7
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.20	U	0.21	0.20	0.082	ug/L		05/19/23 05:25	1
1,3-Dinitrobenzene	0.098	U	0.11	0.098	0.036	ug/L		05/19/23 05:25	1
2,4,6-Trinitrotoluene	0.098	U	0.11	0.098	0.044	ug/L		05/19/23 05:25	1
2,4-diamino-6-nitrotoluene	0.88	U	0.98	0.88	0.43	ug/L		05/19/23 05:25	1
2,4-Dinitrotoluene	0.078	U	0.098	0.078	0.027	ug/L		05/19/23 05:25	1
2,6-diamino-4-nitrotoluene	0.88	U	0.98	0.88	0.22	ug/L		05/19/23 05:25	1
2,6-Dinitrotoluene	0.078	U	0.098	0.078	0.039	ug/L		05/19/23 05:25	1
2-Amino-4,6-dinitrotoluene	0.098	U	0.11	0.098	0.050	ug/L		05/19/23 05:25	1
2-Nitrotoluene	0.20	U	0.21	0.20	0.084	ug/L		05/19/23 05:25	1
3,5-Dinitroaniline	0.29	U	0.39	0.29	0.13	ug/L		05/19/23 05:25	1
3-Nitrotoluene	0.34	U Q	0.39	0.34	0.19	ug/L		05/19/23 05:25	1
4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.057	ug/L		05/19/23 05:25	1
4-Nitrotoluene	0.39	U	0.40	0.39	0.098	ug/L		05/19/23 05:25	1
DNX	0.25	U	0.49	0.25	0.095	ug/L		05/19/23 05:25	1
HMX	0.20	U	0.21	0.20	0.086	ug/L		05/19/23 05:25	1
MNX	0.28	U	0.49	0.28	0.091	ug/L		05/19/23 05:25	1
Nitrobenzene	0.20	U	0.21	0.20	0.089	ug/L		05/19/23 05:25	1
Nitroglycerin	2.0	U	2.1	2.0	0.90	ug/L		05/19/23 05:25	1

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

Client Sample ID: WBGMW-RBmw-018-2023
Date Collected: 05/16/23 14:00
Date Received: 05/17/23 09:20

Lab Sample ID: 280-176591-7
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
PETN	0.98	U	1.1	0.98	0.44	ug/L		05/19/23 05:25	1
RDX	**0.13**	**J M**	0.21	0.20	0.051	ug/L		05/19/23 05:25	1
Tetryl	0.098	U	0.11	0.098	0.031	ug/L		05/19/23 05:25	1
TNX	0.25	U	0.49	0.25	0.078	ug/L		05/19/23 05:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*100*	*M*	*83 - 119*	*05/18/23 13:20*	*05/19/23 05:25*	*1*
1,2-Dinitrobenzene	*94*		*83 - 119*	*05/18/23 13:20*	*05/20/23 00:52*	*1*

Client Sample ID: WBGmw-016-230401-GW
Date Collected: 05/16/23 10:50
Date Received: 05/17/23 09:20

Lab Sample ID: 280-176591-8
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.22	U	0.23	0.22	0.090	ug/L		05/19/23 05:48	1
1,3-Dinitrobenzene	0.11	U	0.12	0.11	0.040	ug/L		05/19/23 05:48	1
2,4,6-Trinitrotoluene	0.11	U	0.12	0.11	0.048	ug/L		05/19/23 05:48	1
2,4-diamino-6-nitrotoluene	0.97	U	1.1	0.97	0.47	ug/L		05/19/23 05:48	1
2,4-Dinitrotoluene	0.086	U	0.11	0.086	0.029	ug/L		05/19/23 05:48	1
2,6-diamino-4-nitrotoluene	0.97	U M	1.1	0.97	0.24	ug/L		05/19/23 05:48	1
2,6-Dinitrotoluene	0.086	U	0.11	0.086	0.043	ug/L		05/19/23 05:48	1
2-Amino-4,6-dinitrotoluene	0.11	U	0.12	0.11	0.055	ug/L		05/19/23 05:48	1
2-Nitrotoluene	0.22	U	0.23	0.22	0.092	ug/L		05/19/23 05:48	1
3,5-Dinitroaniline	0.32	U	0.43	0.32	0.14	ug/L		05/19/23 05:48	1
3-Nitrotoluene	0.38	U Q	0.43	0.38	0.21	ug/L		05/19/23 05:48	1
4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.062	ug/L		05/19/23 05:48	1
4-Nitrotoluene	0.43	U	0.44	0.43	0.11	ug/L		05/19/23 05:48	1
DNX	0.27	U	0.54	0.27	0.10	ug/L		05/19/23 05:48	1
HMX	0.22	U	0.23	0.22	0.094	ug/L		05/19/23 05:48	1
MNX	0.31	U	0.54	0.31	0.10	ug/L		05/19/23 05:48	1
Nitrobenzene	0.22	U	0.23	0.22	0.098	ug/L		05/19/23 05:48	1
Nitroglycerin	2.2	U	2.3	2.2	0.99	ug/L		05/19/23 05:48	1
PETN	1.1	U	1.2	1.1	0.48	ug/L		05/19/23 05:48	1
RDX	0.22	U	0.23	0.22	0.055	ug/L		05/19/23 05:48	1
Tetryl	0.11	U	0.12	0.11	0.034	ug/L		05/19/23 05:48	1
TNX	0.27	U	0.54	0.27	0.085	ug/L		05/19/23 05:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*99*	*M*	*83 - 119*	*05/18/23 13:20*	*05/19/23 05:48*	*1*

Client Sample ID: WBGmw-017-230401-GW
Date Collected: 05/16/23 16:13
Date Received: 05/17/23 09:20

Lab Sample ID: 280-176591-9
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.20	U	0.21	0.20	0.083	ug/L		05/19/23 06:11	1
1,3-Dinitrobenzene	0.098	U	0.11	0.098	0.036	ug/L		05/19/23 06:11	1
2,4,6-Trinitrotoluene	0.098	U	0.11	0.098	0.044	ug/L		05/19/23 06:11	1
2,4-diamino-6-nitrotoluene	0.89	U	0.98	0.89	0.43	ug/L		05/19/23 06:11	1
2,4-Dinitrotoluene	0.079	U	0.098	0.079	0.027	ug/L		05/19/23 06:11	1
2,6-diamino-4-nitrotoluene	0.89	U	0.98	0.89	0.22	ug/L		05/19/23 06:11	1
2,6-Dinitrotoluene	0.079	U	0.098	0.079	0.039	ug/L		05/19/23 06:11	1

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

Client Sample ID: WBGmw-017-230401-GW
Date Collected: 05/16/23 16:13
Date Received: 05/17/23 09:20

Lab Sample ID: 280-176591-9
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Amino-4,6-dinitrotoluene	0.098	U	0.11	0.098	0.050	ug/L		05/19/23 06:11	1
2-Nitrotoluene	0.20	U	0.21	0.20	0.084	ug/L		05/19/23 06:11	1
3,5-Dinitroaniline	0.30	U	0.39	0.30	0.13	ug/L		05/19/23 06:11	1
3-Nitrotoluene	0.34	U Q	0.39	0.34	0.19	ug/L		05/19/23 06:11	1
4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.057	ug/L		05/19/23 06:11	1
4-Nitrotoluene	0.39	U	0.40	0.39	0.098	ug/L		05/19/23 06:11	1
DNX	0.25	U	0.49	0.25	0.096	ug/L		05/19/23 06:11	1
HMX	0.20	U M	0.21	0.20	0.086	ug/L		05/19/23 06:11	1
MNX	0.29	U	0.49	0.29	0.091	ug/L		05/19/23 06:11	1
Nitrobenzene	0.20	U	0.21	0.20	0.089	ug/L		05/19/23 06:11	1
Nitroglycerin	2.0	U	2.1	2.0	0.91	ug/L		05/19/23 06:11	1
PETN	0.98	U	1.1	0.98	0.44	ug/L		05/19/23 06:11	1
RDX	0.20	U	0.21	0.20	0.051	ug/L		05/19/23 06:11	1
Tetryl	0.098	U	0.11	0.098	0.031	ug/L		05/19/23 06:11	1
TNX	0.25	U	0.49	0.25	0.078	ug/L		05/19/23 06:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*104*		*83 - 119*	*05/18/23 13:20*	*05/19/23 06:11*	*1*

General Chemistry

Client Sample ID: WBGmw-006-230401-GW
Date Collected: 05/16/23 13:56
Date Received: 05/17/23 09:20

Lab Sample ID: 280-176591-2
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide (SW846 9034)	2.0	U	4.0	2.0	1.6	mg/L		05/19/23 17:27	1
Nitrate as N (SW846 9056)	0.20	U	0.50	0.20	0.090	mg/L		05/17/23 23:42	1
Nitrite as N (SW846 9056)	0.10	U	0.50	0.10	0.049	mg/L		05/17/23 23:42	1
Sulfate (SW846 9056A)	**24**	**M**	5.0	2.5	1.0	mg/L		05/17/23 23:42	1
Total Organic Carbon - Average (SW846 9060)	**2.0**		1.0	0.80	0.35	mg/L		06/01/23 00:09	1
Alkalinity (SM 2320B)	**270**		10	6.4	3.1	mg/L		05/19/23 16:55	1

Client Sample ID: WBGmw-009-230401-GW
Date Collected: 05/16/23 11:36
Date Received: 05/17/23 09:20

Lab Sample ID: 280-176591-4
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide (SW846 9034)	2.0	U	4.0	2.0	1.6	mg/L		05/19/23 17:27	1
Nitrate as N (SW846 9056)	**0.35**	**J M**	0.50	0.20	0.090	mg/L		05/17/23 17:12	1
Nitrite as N (SW846 9056)	0.10	U	0.50	0.10	0.049	mg/L		05/17/23 17:12	1
Sulfate (SW846 9056A)	**15**	**M**	5.0	2.5	1.0	mg/L		05/17/23 17:12	1
Total Organic Carbon - Average (SW846 9060)	**0.85**	**J**	1.0	0.80	0.35	mg/L		06/01/23 00:27	1
Alkalinity (SM 2320B)	**180**		10	6.4	3.1	mg/L		05/19/23 17:01	1

Client Sample ID: WBGmw-018-230401-GW
Date Collected: 05/16/23 09:39
Date Received: 05/17/23 09:20

Lab Sample ID: 280-176591-6
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide (SW846 9034)	2.0	U	4.0	2.0	1.6	mg/L		05/19/23 17:27	1
Nitrate as N (SW846 9056)	**0.45**	**J M**	0.50	0.20	0.090	mg/L		05/17/23 14:11	1

General Chemistry (Continued)

Client Sample ID: WBGmw-018-230401-GW
Date Collected: 05/16/23 09:39
Date Received: 05/17/23 09:20

Lab Sample ID: 280-176591-6
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrite as N (SW846 9056)	0.10	U	0.50	0.10	0.049	mg/L		05/17/23 14:11	1
Sulfate (SW846 9056A)	**9.6**	**M**	5.0	2.5	1.0	mg/L		05/17/23 14:11	1
Total Organic Carbon - Average (SW846 9060)	**1.4**		1.0	0.80	0.35	mg/L		06/01/23 00:43	1
Alkalinity (SM 2320B)	**49**		10	6.4	3.1	mg/L		05/19/23 17:06	1

Client Sample ID: WBGMW-RBmw-018-2023
Date Collected: 05/16/23 14:00
Date Received: 05/17/23 09:20

Lab Sample ID: 280-176591-7
Matrix: Water

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide (SW846 9034)	2.0	U	4.0	2.0	1.6	mg/L		05/19/23 17:27	1
Nitrate as N (SW846 9056)	0.20	U	0.50	0.20	0.090	mg/L		05/18/23 00:27	1
Nitrite as N (SW846 9056)	0.10	U	0.50	0.10	0.049	mg/L		05/18/23 00:27	1
Sulfate (SW846 9056A)	2.5	U M	5.0	2.5	1.0	mg/L		05/18/23 00:27	1
Total Organic Carbon - Average (SW846 9060)	**0.36**	**J**	1.0	0.80	0.35	mg/L		06/01/23 01:34	1
Alkalinity (SM 2320B)	**4.7**	**J**	10	6.4	3.1	mg/L		05/19/23 17:11	1

Default Detection Limits

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

Job ID: 280-176591-1

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-diamino-6-nitrotoluene	1.0	0.43	ug/L
2,4-Dinitrotoluene	0.10	0.027	ug/L
2,6-diamino-4-nitrotoluene	1.0	0.22	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
3,5-Dinitroaniline	0.40	0.13	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
DNX	0.50	0.097	ug/L
HMX	0.21	0.088	ug/L
MNX	0.50	0.093	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
TNX	0.50	0.079	ug/L

General Chemistry

Analyte	LOQ	DL	Units
Nitrate as N	0.50	0.090	mg/L
Nitrite as N	0.50	0.049	mg/L
Sulfate	5.0	1.0	mg/L
Total Organic Carbon - Average	1.0	0.35	mg/L
Alkalinity	10	3.1	mg/L

General Chemistry

Prep: 9030B

Analyte	LOQ	DL	Units
Sulfide	4.0	1.6	mg/L

Surrogate Summary

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

Job ID: 280-176591-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	12DNB1 (83-119)
280-176591-1	WBGmw-014-230401-GW	107 M
280-176591-2	WBGmw-006-230401-GW	101
280-176591-3	WBGmw-021-230401-GW	102 M
280-176591-4	WBGmw-009-230401-GW	102 M
280-176591-5	WBGmw-020-230401-GW	102 M
280-176591-6	WBGmw-018-230401-GW	113 M
280-176591-7	WBGMW-RBmw-018-2023	100 M
280-176591-8	WBGmw-016-230401-GW	99 M
280-176591-9	WBGmw-017-230401-GW	104
LCS 280-612937/2-A	Lab Control Sample	104
LCS 280-612937/4-A	Lab Control Sample	102
LCSD 280-612937/3-A	Lab Control Sample Dup	102
LCSD 280-612937/5-A	Lab Control Sample Dup	102
MB 280-612937/1-A	Method Blank	106 M

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	12DNB2 (83-119)
280-176591-2	WBGmw-006-230401-GW	93
280-176591-4	WBGmw-009-230401-GW	89
280-176591-5	WBGmw-020-230401-GW	96
280-176591-6	WBGmw-018-230401-GW	118
280-176591-7	WBGMW-RBmw-018-2023	94

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-612937/1-A
Matrix: Water
Analysis Batch: 613045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 612937

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		05/18/23 22:09	1
1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037	ug/L		05/18/23 22:09	1
2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045	ug/L		05/18/23 22:09	1
2,4-diamino-6-nitrotoluene	0.90	U	1.0	0.90	0.43	ug/L		05/18/23 22:09	1
2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027	ug/L		05/18/23 22:09	1
2,6-diamino-4-nitrotoluene	0.90	U	1.0	0.90	0.22	ug/L		05/18/23 22:09	1
2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040	ug/L		05/18/23 22:09	1
2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051	ug/L		05/18/23 22:09	1
2-Nitrotoluene	0.20	U	0.21	0.20	0.086	ug/L		05/18/23 22:09	1
3,5-Dinitroaniline	0.30	U	0.40	0.30	0.13	ug/L		05/18/23 22:09	1
3-Nitrotoluene	0.35	U	0.40	0.35	0.20	ug/L		05/18/23 22:09	1
4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058	ug/L		05/18/23 22:09	1
4-Nitrotoluene	0.40	U	0.41	0.40	0.10	ug/L		05/18/23 22:09	1
DNX	0.25	U	0.50	0.25	0.097	ug/L		05/18/23 22:09	1
HMX	0.20	U	0.21	0.20	0.088	ug/L		05/18/23 22:09	1
MNX	0.29	U	0.50	0.29	0.093	ug/L		05/18/23 22:09	1
Nitrobenzene	0.20	U	0.21	0.20	0.091	ug/L		05/18/23 22:09	1
Nitroglycerin	2.0	U	2.1	2.0	0.92	ug/L		05/18/23 22:09	1
PETN	1.0	U	1.1	1.0	0.45	ug/L		05/18/23 22:09	1
RDX	0.20	U	0.21	0.20	0.052	ug/L		05/18/23 22:09	1
Tetryl	0.10	U	0.11	0.10	0.032	ug/L		05/18/23 22:09	1
TNX	0.25	U	0.50	0.25	0.079	ug/L		05/18/23 22:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*	*M*	*83 - 119*	*05/18/23 13:20*	*05/18/23 22:09*	*1*

Lab Sample ID: LCS 280-612937/2-A
Matrix: Water
Analysis Batch: 613045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 612937

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trinitrobenzene	2.00	2.05		ug/L		103	73 - 125
1,3-Dinitrobenzene	2.00	1.94		ug/L		97	78 - 120
2,4,6-Trinitrotoluene	2.00	1.86		ug/L		93	71 - 123
2,4-Dinitrotoluene	2.00	1.84		ug/L		92	78 - 120
2,6-Dinitrotoluene	2.00	1.85		ug/L		92	77 - 127
2-Amino-4,6-dinitrotoluene	2.00	1.82		ug/L		91	79 - 120
2-Nitrotoluene	2.00	1.51		ug/L		76	70 - 127
3,5-Dinitroaniline	2.00	1.77		ug/L		88	71 - 117
3-Nitrotoluene	2.00	1.45	Q	ug/L		72	73 - 125
4-Amino-2,6-dinitrotoluene	2.00	1.76		ug/L		88	76 - 125
4-Nitrotoluene	2.00	1.50		ug/L		75	71 - 127
DNX	2.00	2.00	M	ug/L		100	66 - 119
HMX	2.00	1.81	M	ug/L		90	65 - 135
MNX	2.33	2.41	M	ug/L		103	57 - 132
Nitrobenzene	2.00	1.71		ug/L		86	65 - 134
Nitroglycerin	20.0	19.9		ug/L		99	74 - 127
PETN	20.0	21.0		ug/L		105	73 - 127

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

Lab Sample ID: LCS 280-612937/2-A
Matrix: Water
Analysis Batch: 613045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 612937

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
RDX	2.00	1.92	M	ug/L		96	68 - 130
Tetryl	2.00	2.04		ug/L		102	64 - 128
TNX	2.01	2.02	M	ug/L		101	50 - 150

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

Lab Sample ID: LCS 280-612937/4-A
Matrix: Water
Analysis Batch: 613045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 612937

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-diamino-6-nitrotoluene	2.00	1.41	M	ug/L		71	68 - 122
2,6-diamino-4-nitrotoluene	2.00	1.56	M	ug/L		78	72 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dinitrobenzene	*102*		*83 - 119*

Lab Sample ID: LCSD 280-612937/3-A
Matrix: Water
Analysis Batch: 613045

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 612937

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	0	20
1,3-Dinitrobenzene	2.00	1.94		ug/L		97	78 - 120	0	20
2,4,6-Trinitrotoluene	2.00	1.87		ug/L		93	71 - 123	0	20
2,4-Dinitrotoluene	2.00	1.83		ug/L		92	78 - 120	0	20
2,6-Dinitrotoluene	2.00	1.91		ug/L		95	77 - 127	3	20
2-Amino-4,6-dinitrotoluene	2.00	1.79		ug/L		90	79 - 120	1	20
2-Nitrotoluene	2.00	1.54		ug/L		77	70 - 127	2	20
3,5-Dinitroaniline	2.00	1.74		ug/L		87	71 - 117	1	20
3-Nitrotoluene	2.00	1.46		ug/L		73	73 - 125	1	20
4-Amino-2,6-dinitrotoluene	2.00	1.81		ug/L		90	76 - 125	2	20
4-Nitrotoluene	2.00	1.50		ug/L		75	71 - 127	0	20
DNX	2.00	1.98	M	ug/L		99	66 - 119	1	20
HMX	2.00	1.88	M	ug/L		94	65 - 135	4	20
MNX	2.33	2.42	M	ug/L		103	57 - 132	0	20
Nitrobenzene	2.00	1.72		ug/L		86	65 - 134	1	20
Nitroglycerin	20.0	19.9		ug/L		100	74 - 127	0	20
PETN	20.0	20.9		ug/L		104	73 - 127	1	20
RDX	2.00	1.88	M	ug/L		94	68 - 130	2	20
Tetryl	2.00	2.07		ug/L		104	64 - 128	2	20
TNX	2.01	2.06	M	ug/L		103	50 - 150	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dinitrobenzene	*102*		*83 - 119*

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

Lab Sample ID: LCSD 280-612937/5-A
Matrix: Water
Analysis Batch: 613045

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 612937

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-diamino-6-nitrotoluene			2.00	1.54	M	ug/L		77	68 - 122	9	20
2,6-diamino-4-nitrotoluene			2.00	1.67	M	ug/L		83	72 - 122	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dinitrobenzene	*102*		*83 - 119*

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 280-613197/2-A
Matrix: Water
Analysis Batch: 613208

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 613197

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide	2.0	U	4.0	2.0	1.6	mg/L		05/19/23 17:27	1

Lab Sample ID: LCS 280-613197/1-A
Matrix: Water
Analysis Batch: 613208

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 613197

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			19.0	16.0		mg/L		84	44 - 110		

Method: 9056 - Anions, Ion Chromatography

Lab Sample ID: MB 280-612808/46
Matrix: Water
Analysis Batch: 612808

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		05/17/23 23:12	1
Nitrite as N	0.10	U M	0.50	0.10	0.049	mg/L		05/17/23 23:12	1

Lab Sample ID: MB 280-612808/6
Matrix: Water
Analysis Batch: 612808

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		05/17/23 13:01	1
Nitrite as N	0.10	U	0.50	0.10	0.049	mg/L		05/17/23 13:01	1

Lab Sample ID: LCS 280-612808/4
Matrix: Water
Analysis Batch: 612808

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			2.50	2.41	M	mg/L		96	88 - 111		
Nitrite as N			2.50	2.31	M	mg/L		92	87 - 111		

Method: 9056 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 280-612808/44
Matrix: Water
Analysis Batch: 612808

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	2.50	2.38	M	mg/L		95	88 - 111
Nitrite as N	2.50	2.34	M	mg/L		93	87 - 111

Lab Sample ID: LCSD 280-612808/45
Matrix: Water
Analysis Batch: 612808

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	2.50	2.39	M	mg/L		96	88 - 111	0	10
Nitrite as N	2.50	2.31	M	mg/L		92	87 - 111	1	10

Lab Sample ID: LCSD 280-612808/5
Matrix: Water
Analysis Batch: 612808

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	2.50	2.42	M	mg/L		97	88 - 111	1	10
Nitrite as N	2.50	2.33	M	mg/L		93	87 - 111	1	10

Lab Sample ID: MRL 280-612808/3
Matrix: Water
Analysis Batch: 612808

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	0.250	0.236	J M	mg/L		94	50 - 150
Nitrite as N	0.250	0.231	J M	mg/L		92	50 - 150

Lab Sample ID: 280-176591-7 MS
Matrix: Water
Analysis Batch: 612808

Client Sample ID: WBGMW-RBmw-018-2023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.20	U	5.00	5.04	M J1	mg/L		101	88 - 111
Nitrite as N	0.10	U	5.00	4.60	M	mg/L		92	87 - 111

Lab Sample ID: 280-176591-7 MSD
Matrix: Water
Analysis Batch: 612808

Client Sample ID: WBGMW-RBmw-018-2023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.20	U	5.00	5.05	M J1	mg/L		101	88 - 111	0	10
Nitrite as N	0.10	U	5.00	4.60	M	mg/L		92	87 - 111	0	10

Lab Sample ID: 280-176591-7 DU
Matrix: Water
Analysis Batch: 612808

Client Sample ID: WBGMW-RBmw-018-2023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	0.20	U	0.20	U	mg/L		NC	10
Nitrite as N	0.10	U	0.10	U	mg/L		NC	10

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 280-612809/46
Matrix: Water
Analysis Batch: 612809

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	2.5	U M	5.0	2.5	1.0	mg/L		05/17/23 23:12	1

Lab Sample ID: MB 280-612809/6
Matrix: Water
Analysis Batch: 612809

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	2.5	U M	5.0	2.5	1.0	mg/L		05/17/23 13:01	1

Lab Sample ID: LCS 280-612809/4
Matrix: Water
Analysis Batch: 612809

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			50.0	48.2	M	mg/L		96	87 - 112		

Lab Sample ID: LCS 280-612809/44
Matrix: Water
Analysis Batch: 612809

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			50.0	47.4	M	mg/L		95	87 - 112		

Lab Sample ID: LCSD 280-612809/45
Matrix: Water
Analysis Batch: 612809

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
Sulfate			50.0	47.4	M	mg/L		95	87 - 112	0	10

Lab Sample ID: LCSD 280-612809/5
Matrix: Water
Analysis Batch: 612809

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
Sulfate			50.0	48.7	M	mg/L		97	87 - 112	1	10

Lab Sample ID: MRL 280-612809/3
Matrix: Water
Analysis Batch: 612809

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			2.50	2.55	J M	mg/L		102	50 - 150		

Lab Sample ID: 280-176591-7 MS
Matrix: Water
Analysis Batch: 612809

Client Sample ID: WBGMW-RBmw-018-2023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	2.5	U M	50.0	49.1	M	mg/L		98	87 - 112		

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: 280-176591-7 MSD
Matrix: Water
Analysis Batch: 612809

Client Sample ID: WBGMW-RBmw-018-2023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	2.5	U M	50.0	49.1	M	mg/L		98	87 - 112	0	10

Lab Sample ID: 280-176591-7 DU
Matrix: Water
Analysis Batch: 612809

Client Sample ID: WBGMW-RBmw-018-2023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfate	2.5	U M		2.5	U M	mg/L				NC	10

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-614617/4
Matrix: Water
Analysis Batch: 614617

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Organic Carbon - Average	0.80	U	1.0	0.80	0.35	mg/L		05/31/23 18:08	1

Lab Sample ID: LCS 280-614617/3
Matrix: Water
Analysis Batch: 614617

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon - Average			25.0	24.4		mg/L		97	88 - 112		

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-613263/33
Matrix: Water
Analysis Batch: 613263

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Alkalinity	3.58	J	10	6.4	3.1	mg/L		05/19/23 16:11	1

Lab Sample ID: LCS 280-613263/31
Matrix: Water
Analysis Batch: 613263

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity			200	181		mg/L		91	89 - 110		

Lab Sample ID: LCSD 280-613263/32
Matrix: Water
Analysis Batch: 613263

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
Alkalinity			200	183		mg/L		92	89 - 110	1	10

HPLC/IC

Prep Batch: 612937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176591-1	WBGmw-014-230401-GW	Total/NA	Water	3535	
280-176591-2	WBGmw-006-230401-GW	Total/NA	Water	3535	
280-176591-3	WBGmw-021-230401-GW	Total/NA	Water	3535	
280-176591-4	WBGmw-009-230401-GW	Total/NA	Water	3535	
280-176591-5	WBGmw-020-230401-GW	Total/NA	Water	3535	
280-176591-6	WBGmw-018-230401-GW	Total/NA	Water	3535	
280-176591-7	WBGMW-RBmw-018-2023	Total/NA	Water	3535	
280-176591-8	WBGmw-016-230401-GW	Total/NA	Water	3535	
280-176591-9	WBGmw-017-230401-GW	Total/NA	Water	3535	
MB 280-612937/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-612937/2-A	Lab Control Sample	Total/NA	Water	3535	
LCS 280-612937/4-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 280-612937/3-A	Lab Control Sample Dup	Total/NA	Water	3535	
LCSD 280-612937/5-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 613045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176591-1	WBGmw-014-230401-GW	Total/NA	Water	8330B	612937
280-176591-2	WBGmw-006-230401-GW	Total/NA	Water	8330B	612937
280-176591-3	WBGmw-021-230401-GW	Total/NA	Water	8330B	612937
280-176591-4	WBGmw-009-230401-GW	Total/NA	Water	8330B	612937
280-176591-5	WBGmw-020-230401-GW	Total/NA	Water	8330B	612937
280-176591-6	WBGmw-018-230401-GW	Total/NA	Water	8330B	612937
280-176591-7	WBGMW-RBmw-018-2023	Total/NA	Water	8330B	612937
280-176591-8	WBGmw-016-230401-GW	Total/NA	Water	8330B	612937
280-176591-9	WBGmw-017-230401-GW	Total/NA	Water	8330B	612937
MB 280-612937/1-A	Method Blank	Total/NA	Water	8330B	612937
LCS 280-612937/2-A	Lab Control Sample	Total/NA	Water	8330B	612937
LCS 280-612937/4-A	Lab Control Sample	Total/NA	Water	8330B	612937
LCSD 280-612937/3-A	Lab Control Sample Dup	Total/NA	Water	8330B	612937
LCSD 280-612937/5-A	Lab Control Sample Dup	Total/NA	Water	8330B	612937

Analysis Batch: 613172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176591-2	WBGmw-006-230401-GW	Total/NA	Water	8330B	612937
280-176591-4	WBGmw-009-230401-GW	Total/NA	Water	8330B	612937
280-176591-5	WBGmw-020-230401-GW	Total/NA	Water	8330B	612937
280-176591-6	WBGmw-018-230401-GW	Total/NA	Water	8330B	612937
280-176591-7	WBGMW-RBmw-018-2023	Total/NA	Water	8330B	612937

General Chemistry

Analysis Batch: 612808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176591-2	WBGmw-006-230401-GW	Total/NA	Water	9056	
280-176591-4	WBGmw-009-230401-GW	Total/NA	Water	9056	
280-176591-6	WBGmw-018-230401-GW	Total/NA	Water	9056	
280-176591-7	WBGMW-RBmw-018-2023	Total/NA	Water	9056	
MB 280-612808/46	Method Blank	Total/NA	Water	9056	
MB 280-612808/6	Method Blank	Total/NA	Water	9056	
LCS 280-612808/4	Lab Control Sample	Total/NA	Water	9056	

General Chemistry (Continued)

Analysis Batch: 612808 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-612808/44	Lab Control Sample	Total/NA	Water	9056	
LCSD 280-612808/45	Lab Control Sample Dup	Total/NA	Water	9056	
LCSD 280-612808/5	Lab Control Sample Dup	Total/NA	Water	9056	
MRL 280-612808/3	Lab Control Sample	Total/NA	Water	9056	
280-176591-7 MS	WBGMW-RBmw-018-2023	Total/NA	Water	9056	
280-176591-7 MSD	WBGMW-RBmw-018-2023	Total/NA	Water	9056	
280-176591-7 DU	WBGMW-RBmw-018-2023	Total/NA	Water	9056	

Analysis Batch: 612809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176591-2	WBGmw-006-230401-GW	Total/NA	Water	9056A	
280-176591-4	WBGmw-009-230401-GW	Total/NA	Water	9056A	
280-176591-6	WBGmw-018-230401-GW	Total/NA	Water	9056A	
280-176591-7	WBGMW-RBmw-018-2023	Total/NA	Water	9056A	
MB 280-612809/46	Method Blank	Total/NA	Water	9056A	
MB 280-612809/6	Method Blank	Total/NA	Water	9056A	
LCS 280-612809/4	Lab Control Sample	Total/NA	Water	9056A	
LCS 280-612809/44	Lab Control Sample	Total/NA	Water	9056A	
LCSD 280-612809/45	Lab Control Sample Dup	Total/NA	Water	9056A	
LCSD 280-612809/5	Lab Control Sample Dup	Total/NA	Water	9056A	
MRL 280-612809/3	Lab Control Sample	Total/NA	Water	9056A	
280-176591-7 MS	WBGMW-RBmw-018-2023	Total/NA	Water	9056A	
280-176591-7 MSD	WBGMW-RBmw-018-2023	Total/NA	Water	9056A	
280-176591-7 DU	WBGMW-RBmw-018-2023	Total/NA	Water	9056A	

Prep Batch: 613197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176591-2	WBGmw-006-230401-GW	Total/NA	Water	9030B	
280-176591-4	WBGmw-009-230401-GW	Total/NA	Water	9030B	
280-176591-6	WBGmw-018-230401-GW	Total/NA	Water	9030B	
280-176591-7	WBGMW-RBmw-018-2023	Total/NA	Water	9030B	
MB 280-613197/2-A	Method Blank	Total/NA	Water	9030B	
LCS 280-613197/1-A	Lab Control Sample	Total/NA	Water	9030B	

Analysis Batch: 613208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176591-2	WBGmw-006-230401-GW	Total/NA	Water	9034	613197
280-176591-4	WBGmw-009-230401-GW	Total/NA	Water	9034	613197
280-176591-6	WBGmw-018-230401-GW	Total/NA	Water	9034	613197
280-176591-7	WBGMW-RBmw-018-2023	Total/NA	Water	9034	613197
MB 280-613197/2-A	Method Blank	Total/NA	Water	9034	613197
LCS 280-613197/1-A	Lab Control Sample	Total/NA	Water	9034	613197

Analysis Batch: 613263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176591-2	WBGmw-006-230401-GW	Total/NA	Water	SM 2320B	
280-176591-4	WBGmw-009-230401-GW	Total/NA	Water	SM 2320B	
280-176591-6	WBGmw-018-230401-GW	Total/NA	Water	SM 2320B	
280-176591-7	WBGMW-RBmw-018-2023	Total/NA	Water	SM 2320B	
MB 280-613263/33	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-613263/31	Lab Control Sample	Total/NA	Water	SM 2320B	

General Chemistry (Continued)

Analysis Batch: 613263 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 280-613263/32	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 614617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-176591-2	WBGmw-006-230401-GW	Total/NA	Water	9060	
280-176591-4	WBGmw-009-230401-GW	Total/NA	Water	9060	
280-176591-6	WBGmw-018-230401-GW	Total/NA	Water	9060	
280-176591-7	WBGMW-RBmw-018-2023	Total/NA	Water	9060	
MB 280-614617/4	Method Blank	Total/NA	Water	9060	
LCS 280-614617/3	Lab Control Sample	Total/NA	Water	9060	

Lab Chronicle

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

Job ID: 280-176591-1

Client Sample ID: WBGmw-014-230401-GW
Lab Sample ID: 280-176591-1
Date Collected: 05/16/23 13:13
Matrix: Water
Date Received: 05/17/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			493.8 mL	5 mL	612937	05/18/23 13:20	EH	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	613045	05/19/23 03:07	JZ	EET DEN

Client Sample ID: WBGmw-006-230401-GW
Lab Sample ID: 280-176591-2
Date Collected: 05/16/23 13:56
Matrix: Water
Date Received: 05/17/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			488.1 mL	5 mL	612937	05/18/23 13:20	EH	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	613045	05/19/23 03:30	JZ	EET DEN
Total/NA	Prep	3535			488.1 mL	5 mL	612937	05/18/23 13:20	EH	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	613172	05/19/23 21:23	JZ	EET DEN
Total/NA	Prep	9030B			50 mL	50 mL	613197	05/19/23 15:58	CAI	EET DEN
Total/NA	Analysis	9034		1			613208	05/19/23 17:27	CAI	EET DEN
Total/NA	Analysis	9056		1	10 mL	10 mL	612808	05/17/23 23:42	MEC	EET DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	612809	05/17/23 23:42	MEC	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	614617	06/01/23 00:09	ABW	EET DEN
Total/NA	Analysis	SM 2320B		1			613263	05/19/23 16:55	KEG	EET DEN

Client Sample ID: WBGmw-021-230401-GW
Lab Sample ID: 280-176591-3
Date Collected: 05/16/23 13:08
Matrix: Water
Date Received: 05/17/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			498.1 mL	5 mL	612937	05/18/23 13:20	EH	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	613045	05/19/23 03:53	JZ	EET DEN

Client Sample ID: WBGmw-009-230401-GW
Lab Sample ID: 280-176591-4
Date Collected: 05/16/23 11:36
Matrix: Water
Date Received: 05/17/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			459 mL	5 mL	612937	05/18/23 13:20	EH	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	613045	05/19/23 04:16	JZ	EET DEN
Total/NA	Prep	3535			459 mL	5 mL	612937	05/18/23 13:20	EH	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	613172	05/19/23 22:33	JZ	EET DEN
Total/NA	Prep	9030B			50 mL	50 mL	613197	05/19/23 15:58	CAI	EET DEN
Total/NA	Analysis	9034		1			613208	05/19/23 17:27	CAI	EET DEN
Total/NA	Analysis	9056		1	10 mL	10 mL	612808	05/17/23 17:12	MEC	EET DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	612809	05/17/23 17:12	MEC	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	614617	06/01/23 00:27	ABW	EET DEN
Total/NA	Analysis	SM 2320B		1			613263	05/19/23 17:01	KEG	EET DEN

Client Sample ID: WBGmw-020-230401-GW

Lab Sample ID: 280-176591-5

Date Collected: 05/16/23 10:32

Matrix: Water

Date Received: 05/17/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			495.9 mL	5 mL	612937	05/18/23 13:20	EH	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	613045	05/19/23 04:39	JZ	EET DEN
Total/NA	Prep	3535			495.9 mL	5 mL	612937	05/18/23 13:20	EH	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	613172	05/19/23 23:08	JZ	EET DEN

Client Sample ID: WBGmw-018-230401-GW

Lab Sample ID: 280-176591-6

Date Collected: 05/16/23 09:39

Matrix: Water

Date Received: 05/17/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			472.5 mL	5 mL	612937	05/18/23 13:20	EH	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	613045	05/19/23 05:02	JZ	EET DEN
Total/NA	Prep	3535			472.5 mL	5 mL	612937	05/18/23 13:20	EH	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	613172	05/20/23 00:18	JZ	EET DEN
Total/NA	Prep	9030B			50 mL	50 mL	613197	05/19/23 15:58	CAI	EET DEN
Total/NA	Analysis	9034		1			613208	05/19/23 17:27	CAI	EET DEN
Total/NA	Analysis	9056		1	10 mL	10 mL	612808	05/17/23 14:11	MEC	EET DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	612809	05/17/23 14:11	MEC	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	614617	06/01/23 00:43	ABW	EET DEN
Total/NA	Analysis	SM 2320B		1			613263	05/19/23 17:06	KEG	EET DEN

Client Sample ID: WBGMW-RBmw-018-2023

Lab Sample ID: 280-176591-7

Date Collected: 05/16/23 14:00

Matrix: Water

Date Received: 05/17/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			509.8 mL	5 mL	612937	05/18/23 13:20	EH	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	613045	05/19/23 05:25	JZ	EET DEN
Total/NA	Prep	3535			509.8 mL	5 mL	612937	05/18/23 13:20	EH	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	613172	05/20/23 00:52	JZ	EET DEN
Total/NA	Prep	9030B			50 mL	50 mL	613197	05/19/23 15:58	CAI	EET DEN
Total/NA	Analysis	9034		1			613208	05/19/23 17:27	CAI	EET DEN
Total/NA	Analysis	9056		1	10 mL	10 mL	612808	05/18/23 00:27	MEC	EET DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	612809	05/18/23 00:27	MEC	EET DEN
Total/NA	Analysis	9060		1	20 mL	20 mL	614617	06/01/23 01:34	ABW	EET DEN
Total/NA	Analysis	SM 2320B		1			613263	05/19/23 17:11	KEG	EET DEN

Client Sample ID: WBGmw-016-230401-GW

Lab Sample ID: 280-176591-8

Date Collected: 05/16/23 10:50

Matrix: Water

Date Received: 05/17/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			465 mL	5 mL	612937	05/18/23 13:20	EH	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	613045	05/19/23 05:48	JZ	EET DEN

Lab Chronicle

Client: Leidos, Inc.
Job ID: 280-176591-1
Project/Site: RVAAP FWGW

Client Sample ID: WBGmw-017-230401-GW
Lab Sample ID: 280-176591-9

Date Collected: 05/16/23 16:13
Matrix: Water
Date Received: 05/17/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			508.4 mL	5 mL	612937	05/18/23 13:20	EH	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	613045	05/19/23 06:11	JZ	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: 280-176591-1
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	10-31-23

Method Summary

Client: Leidos, Inc. Job ID: 280-176591-1
Project/Site: RVAAP FWGW

Method	Method Description	Protocol	Laboratory
8330B	Nitroaromatics and Nitramines (HPLC)	EPA	EET DEN
9034	Sulfide, Acid Soluble and Insoluble (Titrimetric)	SW846	EET DEN
9056	Anions, Ion Chromatography	SW846	EET DEN
9056A	Anions, Ion Chromatography	SW846	EET DEN
9060	Organic Carbon, Total (TOC)	SW846	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
3535	Solid-Phase Extraction (SPE)	SW846	EET DEN
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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.
Project/Site: RVAAP FWGW

Job ID: 280-176591-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-176591-1	WBGmw-014-230401-GW	Water	05/16/23 13:13	05/17/23 09:20
280-176591-2	WBGmw-006-230401-GW	Water	05/16/23 13:56	05/17/23 09:20
280-176591-3	WBGmw-021-230401-GW	Water	05/16/23 13:08	05/17/23 09:20
280-176591-4	WBGmw-009-230401-GW	Water	05/16/23 11:36	05/17/23 09:20
280-176591-5	WBGmw-020-230401-GW	Water	05/16/23 10:32	05/17/23 09:20
280-176591-6	WBGmw-018-230401-GW	Water	05/16/23 09:39	05/17/23 09:20
280-176591-7	WBGMW-RBmw-018-2023	Water	05/16/23 14:00	05/17/23 09:20
280-176591-8	WBGmw-016-230401-GW	Water	05/16/23 10:50	05/17/23 09:20
280-176591-9	WBGmw-017-230401-GW	Water	05/16/23 16:13	05/17/23 09:20

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 599427

Lab Sample ID: IC 280-599427/11 Client Sample ID:

Date Analyzed: 01/17/23 00:33 Lab File ID: 01160039.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,6-diamino-4-nitrotoluene	6.43	Baseline	LV5D	01/17/23 12:22
2,4-diamino-6-nitrotoluene	6.62	Baseline	LV5D	01/17/23 12:22

Lab Sample ID: IC 280-599427/12 Client Sample ID:

Date Analyzed: 01/17/23 00:56 Lab File ID: 01160040.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,6-diamino-4-nitrotoluene	6.46	Baseline	LV5D	01/17/23 12:23
2,4-diamino-6-nitrotoluene	6.64	Baseline	LV5D	01/17/23 12:23

Lab Sample ID: IC 280-599427/13 Client Sample ID:

Date Analyzed: 01/17/23 01:19 Lab File ID: 01160041.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,6-diamino-4-nitrotoluene	6.46	Baseline	LV5D	01/17/23 12:23
2,4-diamino-6-nitrotoluene	6.64	Baseline	LV5D	01/17/23 12:23

Lab Sample ID: IC 280-599427/14 Client Sample ID:

Date Analyzed: 01/17/23 01:43 Lab File ID: 01160042.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,6-diamino-4-nitrotoluene	6.46	Baseline	LV5D	01/17/23 12:30
2,4-diamino-6-nitrotoluene	6.64	Baseline	LV5D	01/17/23 12:30

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 599427

Lab Sample ID: IC 280-599427/15 Client Sample ID:

Date Analyzed: 01/17/23 02:06 Lab File ID: 01160043.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,6-diamino-4-nitrotoluene	6.46	Baseline	LV5D	01/17/23 12:31
2,4-diamino-6-nitrotoluene	6.64	Baseline	LV5D	01/17/23 12:31

Lab Sample ID: IC 280-599427/16 Client Sample ID:

Date Analyzed: 01/17/23 02:30 Lab File ID: 01160044.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,6-diamino-4-nitrotoluene	6.46	Baseline	LV5D	01/17/23 12:31
2,4-diamino-6-nitrotoluene	6.63	Baseline	LV5D	01/17/23 12:31

Lab Sample ID: IC 280-599427/17 Client Sample ID:

Date Analyzed: 01/17/23 02:53 Lab File ID: 01160045.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,6-diamino-4-nitrotoluene	6.46	Baseline	LV5D	01/17/23 12:31
2,4-diamino-6-nitrotoluene	6.64	Baseline	LV5D	01/17/23 12:31

Lab Sample ID: IC 280-599427/18 Client Sample ID:

Date Analyzed: 01/17/23 03:16 Lab File ID: 01160046.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,6-diamino-4-nitrotoluene	6.46	Baseline	LV5D	01/17/23 12:31
2,4-diamino-6-nitrotoluene	6.64	Baseline	LV5D	01/17/23 12:31

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 599427

Lab Sample ID: ICV 280-599427/19 Client Sample ID:

Date Analyzed: 01/17/23 03:40 Lab File ID: 01160047.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,6-diamino-4-nitrotoluene	6.45	Baseline	LV5D	01/17/23 12:32
2,4-diamino-6-nitrotoluene	6.63	Baseline	LV5D	01/17/23 12:32

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 601664

Lab Sample ID: IC 280-601664/11 Client Sample ID:

Date Analyzed: 02/08/23 15:38 Lab File ID: 02080011.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.55	Baseline Smoothing	LV5D	02/08/23 16:28

Lab Sample ID: IC 280-601664/12 Client Sample ID:

Date Analyzed: 02/08/23 16:01 Lab File ID: 02080012.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.55	Baseline Smoothing	LV5D	02/08/23 16:28

Lab Sample ID: IC 280-601664/13 Client Sample ID:

Date Analyzed: 02/08/23 16:24 Lab File ID: 02080013.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.54	Baseline Smoothing	LV5D	02/08/23 16:55
RDX	7.56	Baseline Smoothing	LV5D	02/08/23 19:09

Lab Sample ID: IC 280-601664/14 Client Sample ID:

Date Analyzed: 02/08/23 16:47 Lab File ID: 02080014.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.55	Baseline Smoothing	LV5D	02/08/23 17:11
RDX	7.56	Baseline Smoothing	LV5D	02/08/23 19:09

Lab Sample ID: IC 280-601664/15 Client Sample ID:

Date Analyzed: 02/08/23 17:10 Lab File ID: 02080015.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	7.57	Baseline Smoothing	LV5D	02/08/23 19:09

8330B

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 601664

Lab Sample ID: IC 280-601664/16 Client Sample ID:

Date Analyzed: 02/08/23 17:33 Lab File ID: 02080016.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	7.56	Baseline Smoothing	LV5D	02/08/23 19:09
PETN	14.55	Baseline Smoothing	LV5D	02/08/23 19:08

Lab Sample ID: IC 280-601664/17 Client Sample ID:

Date Analyzed: 02/08/23 17:56 Lab File ID: 02080017.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.55	Baseline Smoothing	LV5D	02/08/23 19:07
RDX	7.57	Baseline Smoothing	LV5D	02/08/23 19:09
PETN	14.58	Baseline Smoothing	LV5D	02/08/23 19:08

Lab Sample ID: IC 280-601664/18 Client Sample ID:

Date Analyzed: 02/08/23 18:19 Lab File ID: 02080018.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.55	Baseline Smoothing	LV5D	02/08/23 19:09
RDX	7.56	Baseline Smoothing	LV5D	02/08/23 19:09
PETN	14.59	Baseline Smoothing	LV5D	02/08/23 19:08

Lab Sample ID: IC 280-601664/19 Client Sample ID:

Date Analyzed: 02/08/23 18:42 Lab File ID: 02080019.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.55	Baseline Smoothing	LV5D	02/08/23 19:09
RDX	7.56	Baseline Smoothing	LV5D	02/08/23 19:08
PETN	14.58	Unspecified		

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 601664

Lab Sample ID: ICV 280-601664/20 Client Sample ID:

Date Analyzed: 02/08/23 19:05 Lab File ID: 02080020.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.55	Baseline Smoothing	LV5D	02/08/23 19:31
RDX	7.56	Baseline Smoothing	LV5D	02/08/23 19:32

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 603284

Lab Sample ID: IC 280-603284/11 Client Sample ID:

Date Analyzed: 02/24/23 15:00 Lab File ID: 02240011.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.44	Baseline	LV5D	02/24/23 16:41
DNX	6.76	Baseline	LV5D	02/24/23 16:41
MNX	7.19	Baseline	LV5D	02/24/23 16:41

Lab Sample ID: IC 280-603284/12 Client Sample ID:

Date Analyzed: 02/24/23 15:23 Lab File ID: 02240012.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.44	Baseline	LV5D	02/24/23 16:41
DNX	6.76	Baseline	LV5D	02/24/23 16:41
MNX	7.19	Baseline	LV5D	02/24/23 16:41

Lab Sample ID: IC 280-603284/13 Client Sample ID:

Date Analyzed: 02/24/23 15:46 Lab File ID: 02240013.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.44	Baseline	LV5D	02/24/23 16:41
DNX	6.77	Baseline	LV5D	02/24/23 16:41
MNX	7.19	Baseline	LV5D	02/24/23 16:41

Lab Sample ID: IC 280-603284/14 Client Sample ID:

Date Analyzed: 02/24/23 16:09 Lab File ID: 02240014.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.44	Baseline	LV5D	02/24/23 16:41
DNX	6.77	Baseline	LV5D	02/24/23 16:41
MNX	7.20	Baseline	LV5D	02/24/23 16:40

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 603284

Lab Sample ID: IC 280-603284/15 Client Sample ID:

Date Analyzed: 02/24/23 16:32 Lab File ID: 02240015.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.44	Baseline	LV5D	02/24/23 17:15
DNX	6.77	Baseline	LV5D	02/24/23 17:15

Lab Sample ID: IC 280-603284/16 Client Sample ID:

Date Analyzed: 02/24/23 16:55 Lab File ID: 02240016.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.45	Baseline	LV5D	02/24/23 17:30
DNX	6.77	Baseline	LV5D	02/24/23 17:30
MNX	7.20	Baseline	LV5D	02/24/23 17:30

Lab Sample ID: IC 280-603284/17 Client Sample ID:

Date Analyzed: 02/24/23 17:18 Lab File ID: 02240017.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.45	Baseline	LV5D	02/24/23 17:51
DNX	6.77	Baseline	LV5D	02/24/23 17:51

Lab Sample ID: IC 280-603284/18 Client Sample ID:

Date Analyzed: 02/24/23 17:41 Lab File ID: 02240018.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.44	Baseline	LV5D	02/24/23 18:10
DNX	6.77	Baseline	LV5D	02/24/23 18:10

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 603284

Lab Sample ID: ICV 280-603284/19 Client Sample ID:

Date Analyzed: 02/24/23 18:04 Lab File ID: 02240019.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.45	Baseline	LV5D	02/28/23 11:45
DNX	6.77	Baseline	LV5D	02/28/23 11:45

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 613045

Lab Sample ID: MB 280-612937/1-A Client Sample ID:

Date Analyzed: 05/18/23 22:09 Lab File ID: 05180011.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.52	Baseline	LV5D	05/19/23 11:37
1,3,5-Trinitrobenzene		Baseline	LV5D	05/19/23 11:37

Lab Sample ID: LCS 280-612937/2-A Client Sample ID:

Date Analyzed: 05/18/23 22:32 Lab File ID: 05180012.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.43	Baseline	LV5D	05/19/23 11:28
HMX	6.55	Baseline	LV5D	05/19/23 11:28
DNX	6.76	Baseline	LV5D	05/19/23 11:28
MNX	7.19	Baseline	LV5D	05/19/23 11:28
RDX	7.57	Baseline	LV5D	05/19/23 11:28

Lab Sample ID: LCSD 280-612937/3-A Client Sample ID:

Date Analyzed: 05/18/23 22:55 Lab File ID: 05180013.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.43	Baseline	LV5D	05/19/23 11:29
HMX	6.55	Baseline	LV5D	05/19/23 11:29
DNX	6.76	Baseline	LV5D	05/19/23 11:29
MNX	7.19	Baseline	LV5D	05/19/23 11:29
RDX	7.57	Baseline	LV5D	05/19/23 11:29

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 613045

Lab Sample ID: LCS 280-612937/4-A Client Sample ID:

Date Analyzed: 05/18/23 23:18 Lab File ID: 05180014.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,6-diamino-4-nitrotoluene	6.42	Baseline	LV5D	05/19/23 11:30
2,4-diamino-6-nitrotoluene	6.61	Baseline	LV5D	05/19/23 11:30

Lab Sample ID: LCSD 280-612937/5-A Client Sample ID:

Date Analyzed: 05/18/23 23:41 Lab File ID: 05180015.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,6-diamino-4-nitrotoluene	6.42	Baseline	LV5D	05/19/23 11:30
2,4-diamino-6-nitrotoluene	6.61	Baseline	LV5D	05/19/23 11:30

Lab Sample ID: CCV 280-613045/21 Client Sample ID:

Date Analyzed: 05/19/23 01:58 Lab File ID: 05180021.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.43	Baseline	LV5D	05/19/23 11:36
HMX	6.55	Baseline	LV5D	05/19/23 11:36
DNX	6.76	Baseline	LV5D	05/19/23 11:36

Lab Sample ID: CCV 280-613045/22 Client Sample ID:

Date Analyzed: 05/19/23 02:21 Lab File ID: 05180022.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,6-diamino-4-nitrotoluene	6.42	Baseline	LV5D	05/19/23 11:37
2,4-diamino-6-nitrotoluene	6.62	Baseline	LV5D	05/19/23 11:37

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 613045

Lab Sample ID: 280-176591-1 Client Sample ID: WBGmw-014-230401-GW

Date Analyzed: 05/19/23 03:07 Lab File ID: 05180024.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.53	Baseline	LV5D	05/19/23 11:40
2,6-diamino-4-nitrotoluene		Invalid Compound ID	LV5D	05/19/23 11:39

Lab Sample ID: 280-176591-2 Client Sample ID: WBGmw-006-230401-GW

Date Analyzed: 05/19/23 03:30 Lab File ID: 05180025.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.55	Baseline	LV5D	05/19/23 11:40
MNX	7.19	Baseline	LV5D	05/19/23 11:40
RDX	7.57	Baseline	LV5D	05/19/23 11:40
1,3-Dinitrobenzene	9.25	Baseline	LV5D	05/19/23 11:40
TNX		Invalid Compound ID	LV5D	05/19/23 11:40
2-Nitrotoluene	12.48	Baseline	LV5D	05/19/23 11:40

Lab Sample ID: 280-176591-3 Client Sample ID: WBGmw-021-230401-GW

Date Analyzed: 05/19/23 03:53 Lab File ID: 05180026.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.52	Baseline	LV5D	05/19/23 12:08
HMX		Invalid Compound ID	LV5D	05/19/23 12:08

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 613045

Lab Sample ID: 280-176591-4 Client Sample ID: WBGmw-009-230401-GW

Date Analyzed: 05/19/23 04:16 Lab File ID: 05180027.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.55	Baseline	LV5D	05/19/23 12:08
MNX	7.18	Baseline	LV5D	05/19/23 12:08
RDX	7.57	Baseline	LV5D	05/19/23 12:08
1,2-Dinitrobenzene	8.52	Baseline	LV5D	05/19/23 12:08
TNX		Invalid Compound ID	LV5D	05/19/23 12:08

Lab Sample ID: 280-176591-5 Client Sample ID: WBGmw-020-230401-GW

Date Analyzed: 05/19/23 04:39 Lab File ID: 05180028.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.52	Baseline	LV5D	05/19/23 12:08
1,3-Dinitrobenzene		Invalid Compound ID	LV5D	05/19/23 12:08
TNX		Invalid Compound ID	LV5D	05/19/23 12:08

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 613045

Lab Sample ID: 280-176591-6 Client Sample ID: WBGmw-018-230401-GW

Date Analyzed: 05/19/23 05:02 Lab File ID: 05180029.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.39	Baseline	LV5D	05/19/23 12:09
2,4-diamino-6-nitrotoluene	6.60	Baseline	LV5D	05/19/23 12:09
1,2-Dinitrobenzene	8.52	Baseline	LV5D	05/19/23 12:09
1,3-Dinitrobenzene		Invalid Compound ID	LV5D	05/19/23 12:09
2,4,6-Trinitrotoluene		Invalid Compound ID	LV5D	05/19/23 12:09
3,5-Dinitroaniline		Invalid Compound ID	LV5D	05/19/23 12:09
3-Nitrotoluene		Invalid Compound ID	LV5D	05/19/23 12:09
MNX		Invalid Compound ID	LV5D	05/19/23 12:09
Nitrobenzene		Invalid Compound ID	LV5D	05/19/23 12:09
Nitroglycerin		Invalid Compound ID	LV5D	05/19/23 12:09
PETN		Invalid Compound ID	LV5D	05/19/23 12:09

Lab Sample ID: 280-176591-7 Client Sample ID: WBGMW-RBmw-018-2023

Date Analyzed: 05/19/23 05:25 Lab File ID: 05180030.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	7.56	Baseline	LV5D	05/19/23 12:09
1,2-Dinitrobenzene	8.52	Baseline	LV5D	05/19/23 12:09
TNX		Baseline	LV5D	05/19/23 12:09

Lab Sample ID: 280-176591-8 Client Sample ID: WBGmw-016-230401-GW

Date Analyzed: 05/19/23 05:48 Lab File ID: 05180031.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.51	Baseline	LV5D	05/19/23 12:09
2,6-diamino-4-nitrotoluene		Invalid Compound ID	LV5D	05/19/23 12:09

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 613045

Lab Sample ID: 280-176591-9 Client Sample ID: WBGmw-017-230401-GW

Date Analyzed: 05/19/23 06:11 Lab File ID: 05180032.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX		Invalid Compound ID	LV5D	05/19/23 12:10

Lab Sample ID: CCV 280-613045/33 Client Sample ID:

Date Analyzed: 05/19/23 06:34 Lab File ID: 05180033.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.43	Baseline	LV5D	05/19/23 12:10
HMX	6.55	Baseline	LV5D	05/19/23 12:10
DNX	6.76	Baseline	LV5D	05/19/23 12:10

Lab Sample ID: CCV 280-613045/34 Client Sample ID:

Date Analyzed: 05/19/23 06:57 Lab File ID: 05180034.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,6-diamino-4-nitrotoluene	6.43	Baseline	LV5D	05/19/23 12:10
2,4-diamino-6-nitrotoluene	6.62	Baseline	LV5D	05/19/23 12:10

Lab Sample ID: CCV 280-613045/41 Client Sample ID:

Date Analyzed: 05/19/23 09:37 Lab File ID: 05180041.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.43	Baseline	LV5D	05/19/23 12:21
HMX	6.55	Baseline	LV5D	05/19/23 12:21
DNX	6.76	Baseline	LV5D	05/19/23 12:21

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 613045

Lab Sample ID: CCV 280-613045/42 Client Sample ID:

Date Analyzed: 05/19/23 10:00 Lab File ID: 05180042.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,6-diamino-4-nitrotoluene	6.43	Baseline	LV5D	05/19/23 12:21
2,4-diamino-6-nitrotoluene	6.61	Baseline	LV5D	05/19/23 12:21

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X5 Analysis Batch Number: 610603

Lab Sample ID: IC 280-610603/10 Client Sample ID:

Date Analyzed: 04/28/23 18:24 Lab File ID: 04280010.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3,5-Dinitroaniline	14.37	Baseline Smoothing	LV5D	04/28/23 19:01
1,3-Dinitrobenzene	14.53	Baseline Smoothing	LV5D	04/28/23 19:01
2-Nitrotoluene	15.66	Baseline Smoothing	LV5D	04/28/23 19:01
4-Nitrotoluene	15.83	Baseline Smoothing	LV5D	04/28/23 19:01
4-Amino-2,6-dinitrotoluene	16.44	Baseline Smoothing	LV5D	04/28/23 19:01
3-Nitrotoluene	16.73	Baseline Smoothing	LV5D	04/28/23 19:01
1,3,5-Trinitrobenzene	17.37	Baseline Smoothing	LV5D	04/28/23 19:01
2-Amino-4,6-dinitrotoluene	17.37	Baseline Smoothing	LV5D	04/28/23 19:01
2,6-Dinitrotoluene	18.56	Baseline Smoothing	LV5D	04/28/23 19:01
2,4-Dinitrotoluene	19.02	Baseline Smoothing	LV5D	04/28/23 19:01

Lab Sample ID: IC 280-610603/11 Client Sample ID:

Date Analyzed: 04/28/23 18:59 Lab File ID: 04280011.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	17.40	Baseline Smoothing	LV5D	04/28/23 20:43
1,3,5-Trinitrobenzene	17.44	Baseline Smoothing	LV5D	04/28/23 20:43

Lab Sample ID: IC 280-610603/12 Client Sample ID:

Date Analyzed: 04/28/23 19:34 Lab File ID: 04280012.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	17.33	Baseline Smoothing	LV5D	04/28/23 20:43
1,3,5-Trinitrobenzene	17.39	Baseline Smoothing	LV5D	04/28/23 20:43

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X5 Analysis Batch Number: 610603

Lab Sample ID: IC 280-610603/13 Client Sample ID:

Date Analyzed: 04/28/23 20:08 Lab File ID: 04280013.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	17.35	Baseline Smoothing	LV5D	04/28/23 20:52
1,3,5-Trinitrobenzene	17.41	Baseline Smoothing	LV5D	04/28/23 20:52

Lab Sample ID: IC 280-610603/14 Client Sample ID:

Date Analyzed: 04/28/23 20:43 Lab File ID: 04280014.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	17.36	Unspecified		
1,3,5-Trinitrobenzene	17.42	Baseline Smoothing	LV5D	04/29/23 10:22

Lab Sample ID: IC 280-610603/15 Client Sample ID:

Date Analyzed: 04/28/23 21:18 Lab File ID: 04280015.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	17.37	Unspecified		
1,3,5-Trinitrobenzene	17.42	Baseline Smoothing	LV5D	04/29/23 10:22

Lab Sample ID: IC 280-610603/16 Client Sample ID:

Date Analyzed: 04/28/23 21:53 Lab File ID: 04280016.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	17.38	Unspecified		
1,3,5-Trinitrobenzene	17.43	Baseline Smoothing	LV5D	04/29/23 10:22

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X5 Analysis Batch Number: 610603

Lab Sample ID: IC 280-610603/17 Client Sample ID:

Date Analyzed: 04/28/23 22:28 Lab File ID: 04280017.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene	15.77	Baseline Smoothing	LV5D	04/29/23 10:23
4-Nitrotoluene	16.00	Unspecified		
4-Amino-2,6-dinitrotoluene	16.56	Baseline Smoothing	LV5D	04/29/23 10:23
3-Nitrotoluene	16.84	Baseline Smoothing	LV5D	04/29/23 10:23
2-Amino-4,6-dinitrotoluene	17.41	Unspecified		
1,3,5-Trinitrobenzene	17.46	Baseline Smoothing	LV5D	04/29/23 10:23

Lab Sample ID: IC 280-610603/18 Client Sample ID:

Date Analyzed: 04/28/23 23:03 Lab File ID: 04280018.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene	15.74	Baseline Smoothing	LV5D	04/29/23 10:24
4-Nitrotoluene	15.97	Unspecified		
4-Amino-2,6-dinitrotoluene	16.53	Baseline Smoothing	LV5D	04/29/23 13:01
3-Nitrotoluene	16.84	Baseline Smoothing	LV5D	04/29/23 13:01
2-Amino-4,6-dinitrotoluene	17.37	Unspecified		
1,3,5-Trinitrobenzene	17.44	Baseline Smoothing	LV5D	04/29/23 10:24

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X5 Analysis Batch Number: 610603

Lab Sample ID: ICV 280-610603/19 Client Sample ID:

Date Analyzed: 04/28/23 23:38 Lab File ID: 04280019.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3,5-Dinitroaniline	14.32	Baseline Smoothing	LV5D	04/29/23 10:27
1,3-Dinitrobenzene	14.59	Baseline Smoothing	LV5D	04/29/23 10:27
2-Nitrotoluene	15.70	Baseline Smoothing	LV5D	04/29/23 10:27
4-Nitrotoluene	15.92	Baseline Smoothing	LV5D	04/29/23 10:27
4-Amino-2,6-dinitrotoluene	16.48	Baseline Smoothing	LV5D	04/29/23 10:27
3-Nitrotoluene	16.78	Baseline Smoothing	LV5D	04/29/23 10:27
2-Amino-4,6-dinitrotoluene	17.34	Unspecified		
1,3,5-Trinitrobenzene	17.42	Baseline Smoothing	LV5D	04/29/23 10:27

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X5 Analysis Batch Number: 613172

Lab Sample ID: CCV 280-613172/9 Client Sample ID:

Date Analyzed: 05/19/23 16:43 Lab File ID: 05190009.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3,5-Dinitroaniline	14.27	Baseline Smoothing	LV5D	05/19/23 17:29
1,3-Dinitrobenzene	14.53	Baseline Smoothing	LV5D	05/19/23 17:29
2-Nitrotoluene	15.61	Baseline Smoothing	LV5D	05/19/23 17:29
4-Nitrotoluene	15.83	Baseline Smoothing	LV5D	05/19/23 17:29
4-Amino-2,6-dinitrotoluene	16.38	Baseline Smoothing	LV5D	05/19/23 17:29
3-Nitrotoluene	16.68	Baseline Smoothing	LV5D	05/19/23 17:29
2-Amino-4,6-dinitrotoluene	17.21	Baseline Smoothing	LV5D	05/19/23 17:29
1,3,5-Trinitrobenzene	17.34	Baseline Smoothing	LV5D	05/19/23 17:29

Lab Sample ID: 280-176591-2 Client Sample ID: WBGmw-006-230401-GW

Date Analyzed: 05/19/23 21:23 Lab File ID: 05190016.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	5.23	Baseline Smoothing	LV5D	05/20/23 11:51
MNX	7.59	Baseline Smoothing	LV5D	05/20/23 11:51

Lab Sample ID: 280-176591-4 Client Sample ID: WBGmw-009-230401-GW

Date Analyzed: 05/19/23 22:33 Lab File ID: 05190018.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.57	Baseline Smoothing	LV5D	05/20/23 11:51
Nitroglycerin		Invalid Compound ID	LV5D	05/20/23 11:51

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X5 Analysis Batch Number: 613172

Lab Sample ID: 280-176591-5 Client Sample ID: WBGmw-020-230401-GW

Date Analyzed: 05/19/23 23:08 Lab File ID: 05190019.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin		Invalid Compound ID	LV5D	05/20/23 11:51

Lab Sample ID: CCV 280-613172/20 Client Sample ID:

Date Analyzed: 05/19/23 23:43 Lab File ID: 05190020.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3,5-Dinitroaniline	14.27	Baseline Smoothing	LV5D	05/20/23 11:52
1,3-Dinitrobenzene	14.53	Baseline Smoothing	LV5D	05/20/23 11:52
2-Nitrotoluene	15.59	Baseline Smoothing	LV5D	05/20/23 11:52
4-Nitrotoluene	15.82	Baseline Smoothing	LV5D	05/20/23 11:52
4-Amino-2,6-dinitrotoluene	16.36	Baseline Smoothing	LV5D	05/20/23 11:52
3-Nitrotoluene	16.66	Baseline Smoothing	LV5D	05/20/23 11:52
2-Amino-4,6-dinitrotoluene	17.19	Baseline Smoothing	LV5D	05/20/23 11:52
1,3,5-Trinitrobenzene	17.33	Baseline Smoothing	LV5D	05/20/23 11:52

Lab Sample ID: 280-176591-6 Client Sample ID: WBGmw-018-230401-GW

Date Analyzed: 05/20/23 00:18 Lab File ID: 05190021.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,6-diamino-4-nitrotoluene	4.17	Baseline Smoothing	LV5D	05/20/23 11:52
TNX		Invalid Compound ID	LV5D	05/20/23 11:52
2,6-Dinitrotoluene	18.46	Baseline Smoothing	LV5D	05/20/23 11:52

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X5 Analysis Batch Number: 613172

Lab Sample ID: 280-176591-7 Client Sample ID: WBGMW-RBmw-018-2023

Date Analyzed: 05/20/23 00:52 Lab File ID: 05190022.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.71	Baseline Smoothing	LV5D	05/20/23 11:52
RDX	8.95	Baseline Smoothing	LV5D	05/20/23 11:52

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_IonChrom10 Analysis Batch Number: 608435

Lab Sample ID: STD 280-608435/1 IC Client Sample ID:

Date Analyzed: 04/12/23 14:04 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Orthophosphate as P	9.45	Baseline Smoothing	LVW8	04/12/23 15:40

Lab Sample ID: STD 280-608435/2 IC Client Sample ID:

Date Analyzed: 04/12/23 14:19 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N	5.12	Baseline Smoothing	LVW8	04/12/23 15:41
Nitrate as N	7.38	Baseline Smoothing	LVW8	04/12/23 15:41
Orthophosphate as P	9.81	Baseline Smoothing	LVW8	04/12/23 15:41

Lab Sample ID: STD 280-608435/3 IC Client Sample ID:

Date Analyzed: 04/12/23 14:34 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N	5.12	Baseline Smoothing	LVW8	04/12/23 15:41
Nitrate as N	7.12	Baseline Smoothing	LVW8	04/12/23 15:41
Orthophosphate as P	9.41	Baseline Smoothing	LVW8	04/12/23 15:42

Lab Sample ID: STD 280-608435/4 IC Client Sample ID:

Date Analyzed: 04/12/23 14:49 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N	5.11	Baseline Smoothing	LVW8	04/12/23 15:42
Nitrate as N	7.10	Baseline Smoothing	LVW8	04/12/23 15:42
Orthophosphate as P	9.39	Baseline Smoothing	LVW8	04/12/23 15:42

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_IonChrom10 Analysis Batch Number: 608435

Lab Sample ID: STD 280-608435/5 IC Client Sample ID:

Date Analyzed: 04/12/23 15:04 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N	5.11	Baseline Smoothing	LVW8	04/12/23 15:43
Nitrate as N	7.08	Baseline Smoothing	LVW8	04/12/23 15:43
Orthophosphate as P	9.37	Baseline Smoothing	LVW8	04/12/23 15:43

Lab Sample ID: STD 280-608435/6 IC Client Sample ID:

Date Analyzed: 04/12/23 15:19 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N	5.10	Baseline Smoothing	LVW8	04/12/23 15:43
Nitrate as N	7.06	Baseline Smoothing	LVW8	04/12/23 15:43
Orthophosphate as P	9.35	Baseline Smoothing	LVW8	04/12/23 15:43

Lab Sample ID: ICV 280-608435/7 Client Sample ID:

Date Analyzed: 04/12/23 15:34 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N	5.11	Baseline Smoothing	XAY4	04/14/23 13:56

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_IonChrom10 Analysis Batch Number: 612808

Lab Sample ID: CCV 280-612808/1 Client Sample ID:

Date Analyzed: 05/17/23 11:46 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N	5.00	Baseline Smoothing	LVW8	05/18/23 10:15
Nitrate as N	6.91	Baseline Smoothing	LVW8	05/18/23 10:15

Lab Sample ID: CCB 280-612808/2 Client Sample ID:

Date Analyzed: 05/17/23 12:01 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N		Unspecified		

Lab Sample ID: MRL 280-612808/3 Client Sample ID:

Date Analyzed: 05/17/23 12:16 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N	5.00	Baseline Smoothing	LVW8	05/18/23 10:16
Nitrate as N	6.95	Baseline Smoothing	LVW8	05/18/23 10:16

Lab Sample ID: LCS 280-612808/4 Client Sample ID:

Date Analyzed: 05/17/23 12:31 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N	5.00	Baseline Smoothing	LVW8	05/18/23 10:16
Nitrate as N	6.91	Baseline Smoothing	LVW8	05/18/23 10:16

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_IonChrom10 Analysis Batch Number: 612808

Lab Sample ID: LCSD 280-612808/5 Client Sample ID:

Date Analyzed: 05/17/23 12:46 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N	5.00	Baseline Smoothing	LVW8	05/18/23 10:17
Nitrate as N	6.91	Baseline Smoothing	LVW8	05/18/23 10:17

Lab Sample ID: 280-176591-6 Client Sample ID: WBGmw-018-230401-GW

Date Analyzed: 05/17/23 14:11 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrate as N	6.97	Baseline Smoothing	LVW8	05/18/23 10:18

Lab Sample ID: CCV 280-612808/17 Client Sample ID:

Date Analyzed: 05/17/23 15:56 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N	5.00	Baseline Smoothing	LVW8	05/18/23 10:20
Nitrate as N	6.90	Baseline Smoothing	LVW8	05/18/23 10:21

Lab Sample ID: CCB 280-612808/18 Client Sample ID:

Date Analyzed: 05/17/23 16:11 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N		Unspecified		

Lab Sample ID: 280-176591-4 Client Sample ID: WBGmw-009-230401-GW

Date Analyzed: 05/17/23 17:12 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrate as N	7.00	Baseline Smoothing	LVW8	05/18/23 10:21

9056

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_IonChrom10 Analysis Batch Number: 612808

Lab Sample ID: CCV 280-612808/29 Client Sample ID:

Date Analyzed: 05/17/23 18:57 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N	5.00	Baseline Smoothing	LVW8	05/18/23 10:24
Nitrate as N	6.89	Baseline Smoothing	LVW8	05/18/23 10:24

Lab Sample ID: CCV 280-612808/41 Client Sample ID:

Date Analyzed: 05/17/23 21:58 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N	5.00	Baseline Smoothing	LVW8	05/18/23 10:28
Nitrate as N	6.89	Baseline Smoothing	LVW8	05/18/23 10:28

Lab Sample ID: CCB 280-612808/42 Client Sample ID:

Date Analyzed: 05/17/23 22:13 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N		Unspecified		

Lab Sample ID: LCS 280-612808/44 Client Sample ID:

Date Analyzed: 05/17/23 22:42 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N	5.00	Baseline Smoothing	LVW8	05/18/23 10:29
Nitrate as N	6.90	Baseline Smoothing	LVW8	05/18/23 10:29

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_IonChrom10 Analysis Batch Number: 612808

Lab Sample ID: LCSD 280-612808/45 Client Sample ID:

Date Analyzed: 05/17/23 22:57 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N	5.00	Baseline Smoothing	LVW8	05/18/23 10:29
Nitrate as N	6.90	Baseline Smoothing	LVW8	05/18/23 10:29

Lab Sample ID: MB 280-612808/46 Client Sample ID:

Date Analyzed: 05/17/23 23:12 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N		Unspecified		

Lab Sample ID: CCV 280-612808/53 Client Sample ID:

Date Analyzed: 05/18/23 00:57 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N	5.00	Baseline Smoothing	LVW8	05/18/23 10:31
Nitrate as N	6.90	Baseline Smoothing	LVW8	05/18/23 10:31

Lab Sample ID: CCB 280-612808/54 Client Sample ID:

Date Analyzed: 05/18/23 01:12 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N		Unspecified		

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_IonChrom10 Analysis Batch Number: 612808

Lab Sample ID: 280-176591-7 MS Client Sample ID: WBGMW-RBmw-018-2023 MS

Date Analyzed: 05/18/23 01:27 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N	5.00	Baseline Smoothing	LVW8	05/18/23 10:32
Nitrate as N	6.88	Baseline Smoothing	LVW8	05/18/23 10:32

Lab Sample ID: 280-176591-7 MSD Client Sample ID: WBGMW-RBmw-018-2023 MSD

Date Analyzed: 05/18/23 01:42 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N	4.99	Baseline Smoothing	LVW8	05/18/23 10:32
Nitrate as N	6.88	Baseline Smoothing	LVW8	05/18/23 10:32

Lab Sample ID: CCV 280-612808/65 Client Sample ID:

Date Analyzed: 05/18/23 03:57 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N	5.00	Baseline Smoothing	LVW8	05/18/23 10:38
Nitrate as N	6.90	Baseline Smoothing	LVW8	05/18/23 10:38

Lab Sample ID: CCB 280-612808/66 Client Sample ID:

Date Analyzed: 05/18/23 04:12 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrite as N		Unspecified		

9056

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_IonChrom10 Analysis Batch Number: 608436

Lab Sample ID: STD 280-608436/1 IC Client Sample ID:

Date Analyzed: 04/12/23 14:04 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloride	4.38	Baseline Smoothing	LVW8	04/12/23 15:40
Sulfate	10.65	Baseline Smoothing	LVW8	04/12/23 15:40

Lab Sample ID: STD 280-608436/2 IC Client Sample ID:

Date Analyzed: 04/12/23 14:19 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.16	Baseline Smoothing	LVW8	04/12/23 15:41
Chloride	4.38	Baseline Smoothing	LVW8	04/12/23 15:41
Sulfate	11.05	Baseline Smoothing	LVW8	04/12/23 15:41

Lab Sample ID: STD 280-608436/3 IC Client Sample ID:

Date Analyzed: 04/12/23 14:34 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.17	Baseline Smoothing	LVW8	04/12/23 15:42
Chloride	4.38	Baseline Smoothing	LVW8	04/12/23 15:41
Bromide	6.32	Baseline Smoothing	LVW8	04/12/23 15:41
Sulfate	10.65	Baseline Smoothing	LVW8	04/12/23 15:42

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_IonChrom10 Analysis Batch Number: 608436

Lab Sample ID: STD 280-608436/4 IC Client Sample ID:

Date Analyzed: 04/12/23 14:49 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.17	Baseline Smoothing	LVW8	04/12/23 15:42
Chloride	4.39	Baseline Smoothing	LVW8	04/12/23 15:42
Bromide	6.31	Baseline Smoothing	LVW8	04/12/23 15:42
Sulfate	10.63	Baseline Smoothing	LVW8	04/12/23 15:42

Lab Sample ID: STD 280-608436/5 IC Client Sample ID:

Date Analyzed: 04/12/23 15:04 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.17	Baseline Smoothing	LVW8	04/12/23 15:43
Chloride	4.41	Baseline Smoothing	LVW8	04/12/23 15:43
Sulfate	10.61	Baseline Smoothing	LVW8	04/12/23 15:43

Lab Sample ID: STD 280-608436/6 IC Client Sample ID:

Date Analyzed: 04/12/23 15:19 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.18	Baseline Smoothing	LVW8	04/12/23 15:43
Chloride	4.43	Baseline Smoothing	LVW8	04/12/23 15:43
Sulfate	10.59	Baseline Smoothing	LVW8	04/12/23 15:43

Lab Sample ID: ICB 280-608436/8 Client Sample ID:

Date Analyzed: 04/12/23 15:49 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	10.60	Baseline Smoothing	XAY4	04/14/23 14:01

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_IonChrom10 Analysis Batch Number: 612809

Lab Sample ID: CCV 280-612809/1 Client Sample ID:

Date Analyzed: 05/17/23 11:46 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloride	4.31	Baseline Smoothing	LVW8	05/18/23 10:15
Sulfate	10.20	Baseline Smoothing	LVW8	05/18/23 10:15

Lab Sample ID: CCB 280-612809/2 Client Sample ID:

Date Analyzed: 05/17/23 12:01 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	10.28	Baseline Smoothing	LVW8	05/18/23 10:15

Lab Sample ID: MRL 280-612809/3 Client Sample ID:

Date Analyzed: 05/17/23 12:16 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	10.23	Baseline Smoothing	LVW8	05/18/23 10:16

Lab Sample ID: LCS 280-612809/4 Client Sample ID:

Date Analyzed: 05/17/23 12:31 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	10.22	Baseline Smoothing	LVW8	05/18/23 10:16

Lab Sample ID: LCSD 280-612809/5 Client Sample ID:

Date Analyzed: 05/17/23 12:46 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	10.22	Baseline Smoothing	LVW8	05/18/23 10:17

9056A

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_IonChrom10 Analysis Batch Number: 612809

Lab Sample ID: MB 280-612809/6 Client Sample ID:

Date Analyzed: 05/17/23 13:01 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	10.29	Baseline Smoothing	LVW8	05/18/23 10:17

Lab Sample ID: 280-176591-6 Client Sample ID: WBGmw-018-230401-GW

Date Analyzed: 05/17/23 14:11 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	10.26	Baseline Smoothing	LVW8	05/18/23 10:18

Lab Sample ID: CCV 280-612809/17 Client Sample ID:

Date Analyzed: 05/17/23 15:56 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloride	4.31	Baseline Smoothing	LVW8	05/18/23 10:21
Sulfate	10.23	Baseline Smoothing	LVW8	05/18/23 10:21

Lab Sample ID: CCB 280-612809/18 Client Sample ID:

Date Analyzed: 05/17/23 16:11 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	10.30	Baseline Smoothing	LVW8	05/18/23 10:21

Lab Sample ID: 280-176591-4 Client Sample ID: WBGmw-009-230401-GW

Date Analyzed: 05/17/23 17:12 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	10.28	Baseline Smoothing	LVW8	05/18/23 10:22

9056A

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_IonChrom10 Analysis Batch Number: 612809

Lab Sample ID: CCV 280-612809/29 Client Sample ID:

Date Analyzed: 05/17/23 18:57 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloride	4.31	Baseline Smoothing	LVW8	05/18/23 10:24
Sulfate	10.22	Baseline Smoothing	LVW8	05/18/23 10:24

Lab Sample ID: CCB 280-612809/30 Client Sample ID:

Date Analyzed: 05/17/23 19:12 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	10.28	Baseline Smoothing	LVW8	05/18/23 10:24

Lab Sample ID: CCV 280-612809/41 Client Sample ID:

Date Analyzed: 05/17/23 21:58 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloride	4.31	Baseline Smoothing	LVW8	05/18/23 10:28
Sulfate	10.21	Baseline Smoothing	LVW8	05/18/23 10:28

Lab Sample ID: CCB 280-612809/42 Client Sample ID:

Date Analyzed: 05/17/23 22:13 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	10.28	Baseline Smoothing	LVW8	05/18/23 10:28

Lab Sample ID: LCS 280-612809/44 Client Sample ID:

Date Analyzed: 05/17/23 22:42 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	10.22	Baseline Smoothing	LVW8	05/18/23 10:29

9056A

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_IonChrom10 Analysis Batch Number: 612809

Lab Sample ID: LCSD 280-612809/45 Client Sample ID:

Date Analyzed: 05/17/23 22:57 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	10.22	Baseline Smoothing	LVW8	05/18/23 10:29

Lab Sample ID: MB 280-612809/46 Client Sample ID:

Date Analyzed: 05/17/23 23:12 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	10.29	Baseline Smoothing	LVW8	05/18/23 10:29

Lab Sample ID: 280-176591-2 Client Sample ID: WBGmw-006-230401-GW

Date Analyzed: 05/17/23 23:42 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	10.26	Baseline Smoothing	LVW8	05/18/23 10:30

Lab Sample ID: 280-176591-7 Client Sample ID: WBGMW-RBmw-018-2023

Date Analyzed: 05/18/23 00:27 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	10.31	Baseline Smoothing	LVW8	05/18/23 10:31

Lab Sample ID: 280-176591-7 DU Client Sample ID: WBGMW-RBmw-018-2023 DU

Date Analyzed: 05/18/23 00:42 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	10.30	Baseline Smoothing	LVW8	05/18/23 10:31

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_IonChrom10 Analysis Batch Number: 612809

Lab Sample ID: CCV 280-612809/53 Client Sample ID:

Date Analyzed: 05/18/23 00:57 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloride	4.31	Baseline Smoothing	LVW8	05/18/23 10:31
Sulfate	10.23	Baseline Smoothing	LVW8	05/18/23 10:31

Lab Sample ID: CCB 280-612809/54 Client Sample ID:

Date Analyzed: 05/18/23 01:12 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	10.29	Baseline Smoothing	LVW8	05/18/23 10:31

Lab Sample ID: 280-176591-7 MS Client Sample ID: WBGMW-RBmw-018-2023 MS

Date Analyzed: 05/18/23 01:27 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	10.23	Baseline Smoothing	LVW8	05/18/23 10:32

Lab Sample ID: 280-176591-7 MSD Client Sample ID: WBGMW-RBmw-018-2023 MSD

Date Analyzed: 05/18/23 01:42 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	10.23	Baseline Smoothing	LVW8	05/18/23 10:32

Lab Sample ID: CCV 280-612809/65 Client Sample ID:

Date Analyzed: 05/18/23 03:57 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloride	4.31	Baseline Smoothing	LVW8	05/18/23 10:38
Sulfate	10.22	Baseline Smoothing	LVW8	05/18/23 10:38

9056A

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_IonChrom10 Analysis Batch Number: 612809

Lab Sample ID: CCB 280-612809/66 Client Sample ID:

Date Analyzed: 05/18/23 04:12 Lab File ID: Info 2_DENPC179_Anions_20 GC Column: Metrosepp A S ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Sulfate	10.28	Baseline Smoothing	LVW8	05/18/23 10:38

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
3,5-DNA LCS_00042	01/25/23	11/08/22	Acetonitrile, Lot Acetonitrile_00065	100 mL	3,5-DNA Stock_00036	1 mL	3,5-Dinitroaniline	10 ug/mL
.3,5-DNA Stock_00036	04/25/23		Restek, Lot A0149736		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
3,5-DNA LCS_00043	08/03/23	02/03/23	Acetonitrile, Lot Acetonitrile_00074	100 mL	3,5-DNA Stock_00038	1 mL	3,5-Dinitroaniline	10 ug/mL
.3,5-DNA Stock_00038	02/03/24		Restek, Lot A0164976		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
8330 DMT_00013	08/24/23	02/24/23	Acetonitrile, Lot ACN_237	5 mL	MNX,TNX,DNX_00076	1 mL	DNX	20.02 ug/mL
							MNX	23.34 ug/mL
							TNX	20.06 ug/mL
.MNX,TNX,DNX_00076	02/29/24		Agilent, Lot 0006725091		(Purchased Reagent)		DNX	100.1 ug/mL
							MNX	116.7 ug/mL
							TNX	100.3 ug/mL
8330 LCS_00121	07/21/23	01/21/23	Acetonitrile, Lot Acetonitrile_00073	50 mL	8330_NG_Stk_00118	0.6 mL	Nitroglycerin	100 ug/mL
					8330_NG_Stk_00120	0.4 mL	Nitroglycerin	100 ug/mL
					8330_PETN_Stk_00128	1 mL	PETN	100 ug/mL
					8330LCSMix1_00136	0.5 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
					8330LCSmix2_00034	0.5 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_00118	12/24/23		Restek, Lot A0188553		(Purchased Reagent)		Nitroglycerin	5000 ug/mL
.8330_NG_Stk_00120	01/21/24		Restek, Lot A0188553		(Purchased Reagent)		Nitroglycerin	5000 ug/mL
.8330_PETN_Stk_00128	01/21/24		Restek, Lot A0187506		(Purchased Reagent)		PETN	5000 ug/mL
.8330LCSMix1_00136	10/19/23		Restek, Lot A0171502		(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
.8330LCSmix2_00034	01/21/24		Restek, Lot A0186475		(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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetryl	1000 ug/mL
8330 LCS_00126	04/26/24	04/26/23	Acetonitrile, Lot Acetonitrile_00077	100 mL	3,5-DNA Stock_00042	1 mL	3,5-Dinitroaniline	10 ug/mL
					8330_NG_Stk_00130	1 mL	Nitroglycerin	100 ug/mL
					8330_NG_Stk_00131	1 mL	Nitroglycerin	100 ug/mL
					8330_PETN_Stk_00135	1 mL	PETN	100 ug/mL
					8330_PETN_Stk_00136	1 mL	PETN	100 ug/mL
					8330LCSMix1_00141	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
					8330LCSmix2_00039	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
					PicricARestek_00114	1 mL	2,4,6-Trinitrophenol	10 ug/mL
.3,5-DNA Stock_00042	04/26/24		Restek, Lot A0185772		(Purchased Reagent)		3,5-Dinitroaniline	1000 ug/mL
.8330_NG_Stk_00130	04/26/24		Restek, Lot A0194013		(Purchased Reagent)		Nitroglycerin	5000 ug/mL
.8330_NG_Stk_00131	04/26/24		Restek, Lot A0194013		(Purchased Reagent)		Nitroglycerin	5000 ug/mL
.8330_PETN_Stk_00135	04/26/24		Restek, Lot A0188550		(Purchased Reagent)		PETN	5000 ug/mL
.8330_PETN_Stk_00136	04/26/24		Restek, Lot A0188550		(Purchased Reagent)		PETN	5000 ug/mL
.8330LCSMix1_00141	04/26/24		Restek, Lot A0183848		(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
.8330LCSmix2_00039	04/26/24		Restek, Lot A0192237		(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
.PicricARestek_00114	04/26/24		Restek, Lot A0183202		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
8330_ADDs_00035	07/13/23	01/13/23	Acetonitrile, Lot ACN_237	5 mL	2,4Diamino6NT_00094	1 mL	2,4-diamino-6-nitrotoluene	20 ug/mL
					2,6Diamino4NT_00095	1 mL	2,6-diamino-4-nitrotoluene	20 ug/mL
					833035DNAStk_00052	1 mL	3,5-Dinitroaniline	20 ug/mL
.2,4Diamino6NT_00094	04/10/24		AccuStandard, Lot 220121267-01		(Purchased Reagent)		2,4-diamino-6-nitrotoluene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.2,6Diamino4NT_00095	06/03/24	AccuStandard, Lot 222051002			(Purchased Reagent)		2,6-diamino-4-nitrotoluene	100 ug/mL
.833035DNAStk_00052	10/06/23	Accustandard, Lot 222011692-01			(Purchased Reagent)		3,5-Dinitroaniline	100 ug/mL
8330_ADDs_00036	07/13/23	03/29/23	Acetonitrile, Lot ACN_237	5 mL	2,4Diamino6NT_00094	1 mL	2,4-diamino-6-nitrotoluene	20 ug/mL
					2,6Diamino4NT_00095	1 mL	2,6-diamino-4-nitrotoluene	20 ug/mL
.2,4Diamino6NT_00094	04/10/24	AccuStandard, Lot 220121267-01			(Purchased Reagent)		2,4-diamino-6-nitrotoluene	100 ug/mL
.2,6Diamino4NT_00095	06/03/24	AccuStandard, Lot 222051002			(Purchased Reagent)		2,6-diamino-4-nitrotoluene	100 ug/mL
8330_ADDs_00037	11/04/23	05/04/23	Acetonitrile, Lot ACN_237	5 mL	2,4Diamino6NT_00095	1 mL	2,4-diamino-6-nitrotoluene	20 ug/mL
					2,6Diamino4NT_00096	1 mL	2,6-diamino-4-nitrotoluene	20 ug/mL
.2,4Diamino6NT_00095	04/10/24	AccuStandard, Lot 220121267-01			(Purchased Reagent)		2,4-diamino-6-nitrotoluene	100 ug/mL
.2,6Diamino4NT_00096	05/04/24	AccuStandard, Lot 222051002			(Purchased Reagent)		2,6-diamino-4-nitrotoluene	100 ug/mL
8330_OP_DMT_00016	02/28/23	12/30/22	Acetonitrile, Lot Acetonitrile_00073	10 mL	MNX,TNX,DNX_00069	1 mL	DNX	10.04 ug/mL
							MNX	11.7 ug/mL
							TNX	10 ug/mL
.MNX,TNX,DNX_00069	02/28/23	Agilent, Lot 0006659035			(Purchased Reagent)		DNX	100.4 ug/mL
							MNX	117 ug/mL
							TNX	100 ug/mL
8330_OP_DMT_00017	08/28/23	02/28/23	Acetonitrile, Lot Acetonitrile_00073	10 mL	MNX,TNX,DNX_00077	1 mL	DNX	10.01 ug/mL
							MNX	11.67 ug/mL
							TNX	10.03 ug/mL
.MNX,TNX,DNX_00077	02/29/24	Agilent, Lot 0006725091			(Purchased Reagent)		DNX	100.1 ug/mL
							MNX	116.7 ug/mL
							TNX	100.3 ug/mL
8330_OP_DMT_00020	02/29/24	05/09/23	Acetonitrile, Lot Acetonitrile_00077	10 mL	MNX,TNX,DNX_00079	1 mL	DNX	10.01 ug/mL
							MNX	11.67 ug/mL
							TNX	10.03 ug/mL
.MNX,TNX,DNX_00079	02/29/24	Agilent, Lot 0006725091			(Purchased Reagent)		DNX	100.1 ug/mL
							MNX	116.7 ug/mL
							TNX	100.3 ug/mL
8330DiaminLCS_00052	01/16/23	12/19/22	Acetonitrile, Lot Acetonitrile_00069	10 mL	2,4Diamino6NT_00092	1 mL	2,4-diamino-6-nitrotoluene	10 ug/mL
					2,6Diamino4NT_00099	1 mL	2,6-diamino-4-nitrotoluene	10 ug/mL
.2,4Diamino6NT_00092	01/16/23	AccuStandard, Lot 220121267			(Purchased Reagent)		2,4-diamino-6-nitrotoluene	100 ug/mL
.2,6Diamino4NT_00099	12/19/23	AccuStandard, Lot 222051002			(Purchased Reagent)		2,6-diamino-4-nitrotoluene	100 ug/mL
8330DiaminLCS_00056	01/19/24	01/27/23	Acetonitrile, Lot Acetonitrile_00074	20 mL	2,4Diamino6NT_00098	1 mL	2,4-diamino-6-nitrotoluene	10 ug/mL
					2,4Diamino6NT_00099	1 mL	2,4-diamino-6-nitrotoluene	10 ug/mL
					2,6Diamino4NT_00100	1 mL	2,6-diamino-4-nitrotoluene	10 ug/mL
					2,6Diamino4NT_00102	1 mL	2,6-diamino-4-nitrotoluene	10 ug/mL
.2,4Diamino6NT_00098	04/10/24	AccuStandard, Lot 220121267-01			(Purchased Reagent)		2,4-diamino-6-nitrotoluene	100 ug/mL
.2,4Diamino6NT_00099	04/10/24	AccuStandard, Lot 220121267-01			(Purchased Reagent)		2,4-diamino-6-nitrotoluene	100 ug/mL
.2,6Diamino4NT_00100	06/03/24	AccuStandard, Lot 222051002			(Purchased Reagent)		2,6-diamino-4-nitrotoluene	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		
.2,6Diamino4NT_00102	06/03/24	AccuStandard, Lot 222051002			(Purchased Reagent)		2,6-diamino-4-nitrotoluene	100 ug/mL
8330IntermStk_00075	08/07/23	02/03/23	Acetonitrile, Lot ACN_238	10 mL	8330_NG1000_00007	1 mL	Nitroglycerin	100 ug/mL
					8330_PETN1000_00011	1 mL	PETN	100 ug/mL
					833035DNAStk_00053	1 mL	3,5-Dinitroaniline	10 ug/mL
					8330ICALStock_00034	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_00070	1 mL	2,4,6-Trinitrophenol	10 ug/mL
.8330_NG1000_00007	02/03/24	Restek, Lot A0175997			(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.8330_PETN1000_00011	02/03/24	Restek, Lot A0187142			(Purchased Reagent)		PETN	1000 ug/mL
.833035DNAStk_00053	10/06/23	Accustandard, Lot 222011692-01			(Purchased Reagent)		3,5-Dinitroaniline	100 ug/mL
.8330ICALStock_00034	02/03/24	02/03/23	Acetonitrile, Lot ACN_238	10 mL	8330 Stock_TS_00023	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_00172	1 mL	1,2-Dinitrobenzene	100 ug/mL
..8330 Stock_TS_00023	02/03/24	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

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_00172	02/03/24	AccuStandard, Lot 219051500			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330PAStkPS_00070	08/07/23	AccuStandard, Lot 218031154-03			(Purchased Reagent)		2,4,6-Trinitrophenol	100 ug/mL
8330IntermStk_00076	09/23/23	03/23/23	Acetonitrile, Lot ACN_237	10 mL	8330_NG1000_00010	1 mL	Nitroglycerin	100 ug/mL
					8330_PETN1000_00010	1 mL	PETN	100 ug/mL
					833035DNAStk_00054	1 mL	3,5-Dinitroaniline	10 ug/mL
					8330ICALStock_00034	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_00071	1 mL	2,4,6-Trinitrophenol	10 ug/mL
.8330_NG1000_00010	03/23/24	Restek, Lot A0187280			(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.8330_PETN1000_00010	03/23/24	Restek, Lot A0187142			(Purchased Reagent)		PETN	1000 ug/mL
.833035DNAStk_00054	10/06/23	Accustandard, Lot 222011692-01			(Purchased Reagent)		3,5-Dinitroaniline	100 ug/mL
.8330ICALStock_00034	02/03/24	02/03/23	Acetonitrile, Lot ACN_238	10 mL	8330 Stock_TS_00023	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_00172	1 mL	1,2-Dinitrobenzene	100 ug/mL
..8330 Stock_TS_00023	02/03/24	Agilent, Lot 0006684308			(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00172	02/03/24	AccuStandard, Lot 219051500			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330PAStkPS_00071	03/23/24	AccuStandard, Lot 218031154-04			(Purchased Reagent)		2,4,6-Trinitrophenol	100 ug/mL
8330Surrogate_00138	08/02/23	02/02/23	Acetonitrile, Lot Acetonitrile_00074	500 mL	8330SurrStkSS_00245	1 mL	1,2-Dinitrobenzene	10 ug/mL
					8330SurrStkSS_00246	1 mL	1,2-Dinitrobenzene	10 ug/mL
					8330SurrStkSS_00247	1 mL	1,2-Dinitrobenzene	10 ug/mL
					8330SurrStkSS_00248	1 mL	1,2-Dinitrobenzene	10 ug/mL
					8330SurrStkSS_00249	1 mL	1,2-Dinitrobenzene	10 ug/mL
.8330SurrStkSS_00245	02/02/24	Restek, Lot A0192220			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330SurrStkSS_00246	02/02/24	Restek, Lot A0192220			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330SurrStkSS_00247	02/02/24	Restek, Lot A0192220			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330SurrStkSS_00248	02/02/24	Restek, Lot A0192220			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330SurrStkSS_00249	02/02/24	Restek, Lot A0192220			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
8330Surrogate_00143	10/12/23	04/12/23	Acetonitrile, Lot Acetonitrile_00077	500 mL	8330SurrStkSS_00263	1 mL	1,2-Dinitrobenzene	10 ug/mL
							1,2-Dinitrobenzene (Surr)	10 ug/mL
					8330SurrStkSS_00265	1 mL	1,2-Dinitrobenzene	10 ug/mL
							1,2-Dinitrobenzene (Surr)	10 ug/mL
					8330SurrStkSS_00266	1 mL	1,2-Dinitrobenzene	10 ug/mL
							1,2-Dinitrobenzene (Surr)	10 ug/mL
					8330SurrStkSS_00267	1 mL	1,2-Dinitrobenzene	10 ug/mL
							1,2-Dinitrobenzene (Surr)	10 ug/mL
					8330SurrStkSS_00268	1 mL	1,2-Dinitrobenzene	10 ug/mL
							1,2-Dinitrobenzene (Surr)	10 ug/mL
.8330SurrStkSS_00263	04/12/24	Restek, Lot A0193444			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
							1,2-Dinitrobenzene (Surr)	1000 ug/mL
.8330SurrStkSS_00265	04/12/24	Restek, Lot A0193444			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
							1,2-Dinitrobenzene (Surr)	1000 ug/mL
.8330SurrStkSS_00266	04/12/24	Restek, Lot A0194831			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
							1,2-Dinitrobenzene (Surr)	1000 ug/mL
.8330SurrStkSS_00267	04/12/24	Restek, Lot A0194831			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
							1,2-Dinitrobenzene (Surr)	1000 ug/mL
.8330SurrStkSS_00268	04/12/24	Restek, Lot A0194831			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
							1,2-Dinitrobenzene (Surr)	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
Alk daily lcs_01088	05/26/23	05/19/23	Di Water, Lot na	1000 mL	Alk stk std_00023	4 mL	Alkalinity	200 mg/L
.Alk stk std_00023	10/30/23		SPEX, Lot 2-106BT		(Purchased Reagent)		Alkalinity	50 g/L
IC CAL cl/so4_00475	04/19/23	04/12/23	Di Water, Lot na	100 mL	IC CL cal_00076	12.5 mL	Chloride	125 mg/L
					IC SO4 Cal_00008	12.5 mL	Sulfate	125 mg/L
.IC CL cal_00076	11/30/23		SPEX CertiPrep, Lot 5-146CL-2X		(Purchased Reagent)		Chloride	1000 mg/L
.IC SO4 Cal_00008	07/30/23		SPEX CertiPrep, Lot 5-160SO4-2X		(Purchased Reagent)		Sulfate	1000 mg/L
IC CAL cl/so4_00480	05/24/23	05/18/23	Di Water, Lot na	100 mL	IC SO4 Cal_00008	12.5 mL	Sulfate	125 mg/L
.IC SO4 Cal_00008	07/30/23		SPEX CertiPrep, Lot 5-160SO4-2X		(Purchased Reagent)		Sulfate	1000 mg/L
IC Cal low_00703	04/19/23	04/12/23	Di Water, Lot NA	100 mL	IC BR ICV_00026	2.5 mL	Bromide	25 mg/L
					IC FL cal_00023	2.5 mL	Fluoride	25 mg/L
					IC N03 cal_00028	2.5 mL	Nitrate as N	25 mg/L
					IC NO2 Cal_00007	2.5 mL	Nitrite as N	25 mg/L
					IC P04 cal_00030	2.5 mL	Orthophosphate as P	25 mg/L
.IC BR ICV_00026	04/30/23		RICCA, Lot 4110L50		(Purchased Reagent)		Bromide	1000 mg/L
.IC FL cal_00023	01/31/24		Ricca, Lot 2207H13		(Purchased Reagent)		Fluoride	1000 mg/L
.IC N03 cal_00028	11/30/23		Ricca, Lot 2205B73		(Purchased Reagent)		Nitrate as N	1000 mg/L
.IC NO2 Cal_00007	06/30/23		Ricca, Lot 2212826		(Purchased Reagent)		Nitrite as N	1000 mg/L
.IC P04 cal_00030	07/31/24		RICCA, Lot 4208152		(Purchased Reagent)		Orthophosphate as P	1000 mg/L
IC Cal low_00709	05/24/23	05/18/23	Di Water, Lot NA	100 mL	IC N03 cal_00028	2.5 mL	Nitrate as N	25 mg/L
					IC NO2 Cal_00007	2.5 mL	Nitrite as N	25 mg/L
.IC N03 cal_00028	11/30/23		Ricca, Lot 2205B73		(Purchased Reagent)		Nitrate as N	1000 mg/L
.IC NO2 Cal_00007	06/30/23		Ricca, Lot 2212826		(Purchased Reagent)		Nitrite as N	1000 mg/L
IC ICV 5_00403	04/19/23	04/12/23	Di Water, Lot na	100 mL	IC NO2 ICV_00022	2.5 mL	Nitrite as N	25 mg/L
					IC NO3 ICV_00019	2.5 mL	Nitrate as N	25 mg/L
.IC NO2 ICV_00022	12/14/23		ERA, Lot 261221m		(Purchased Reagent)		Nitrite as N	1000 mg/L
.IC NO3 ICV_00019	12/01/23		ERA, Lot 011221m		(Purchased Reagent)		Nitrate as N	1000 mg/L
IC LCS_01954	05/24/23	05/18/23	Di Water, Lot 27	200 mL	IC Cal low_00709	20 mL	Nitrate as N	2.5 mg/L
							Nitrite as N	2.5 mg/L
					IC SO4 Cal_00008	10 mL	Sulfate	50 mg/L
.IC Cal low_00709	05/24/23	05/18/23	Di Water, Lot NA	100 mL	IC N03 cal_00028	2.5 mL	Nitrate as N	25 mg/L
					IC NO2 Cal_00007	2.5 mL	Nitrite as N	25 mg/L
..IC N03 cal_00028	11/30/23		Ricca, Lot 2205B73		(Purchased Reagent)		Nitrate as N	1000 mg/L
..IC NO2 Cal_00007	06/30/23		Ricca, Lot 2212826		(Purchased Reagent)		Nitrite as N	1000 mg/L
.IC SO4 Cal_00008	07/30/23		SPEX CertiPrep, Lot 5-160SO4-2X		(Purchased Reagent)		Sulfate	1000 mg/L
IC SO4 ICV_00024	12/01/23		ERA, Lot 021221m		(Purchased Reagent)		Sulfate	1000 mg/L
ICMS/MSD WEEK_00819	05/24/23	05/18/23	Di Water, Lot NA	5 mL	IC SPK 6 ANIO_00028	2.5 mL	Nitrate as N	500.003 mg/L
							Sulfate	5000.51 mg/L
					IC SPK N02SOL_00021	2.5 mL	Nitrite as N	499.973 mg/L
.IC SPK 6 ANIO_00028	10/12/23	10/12/22	Di Water, Lot NA	1000 mL	IC MS/MSD N03_00006	6.068 g	Nitrate as N	1000.01 mg/L
					IC MS/MSD S04_00006	18.1408 g	Sulfate	10001 mg/L
..IC MS/MSD N03_00006	12/31/26		Spectrum, Lot 1LD0800		(Purchased Reagent)		Nitrate as N	0.1648 g/g
..IC MS/MSD S04_00006	09/29/23		FISHER, Lot 147276		(Purchased Reagent)		Sulfate	0.5513 g/g
.IC SPK N02SOL_00021	10/12/23	10/12/22	Di Water, Lot na	500 mL	IC MS/MSD N02_00005	2.4628 g	Nitrite as N	999.946 mg/L
..IC MS/MSD N02_00005	01/31/23		fisher, Lot 210979		(Purchased Reagent)		Nitrite as N	0.20301 g/g

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SFD CAL INT_02403	07/26/23	04/26/23	ELGA Water, Lot NA	500 mL	50% NaOH_00023	2 mL	Sodium Hydroxide	2000 mg/L
					SFD CAL STK_00010	3.5656 g	Sulfide	952.015 mg/L
.50% NaOH_00023	01/31/24	RICCA, Lot 1102857			(Purchased Reagent)		Sodium Hydroxide	50 %
.SFD CAL STK_00010	08/25/25	Thermo Scientific, Lot A0411500			(Purchased Reagent)		Sulfide	0.1335 g/g
TOC ICV Std_00051	07/01/23	Ricca, Lot 2208C86			(Purchased Reagent)		TOC Result 1	1000 ppm
							TOC Result 2	1000 ppm
							TOC Result 3	1000 ppm
							TOC Result 4	1000 ppm
							Total Organic Carbon - Average	1000 ppm
TOC LCS Std_00057	01/31/25	Agilent Technologies, Lot 0006719669			(Purchased Reagent)		TOC Result 1	1001 ppm
							TOC Result 2	1001 ppm
							TOC Result 3	1001 ppm
							TOC Result 4	1001 ppm
							Total Organic Carbon - Average	1001 ppm

Reagent

2,4Diamino6NT_00092

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CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-12
Description: 2,4-Diamino-6-nitrotoluene
Lot: 220121267
Solvent: Acetonitrile
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Dec 16, 2020
Expiration: Jan 16, 2023
Sample Size: 1 mL
Components: 1
Storage Condition: Refrig (0-5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463 ANAB ACCREDITED TESTING LABORATORY AT-1339 ilac-MRA

Component	CAS #	Purity % (LCMS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
2,4-Diamino-6-nitrotoluene	6629-29-4	99.0	100.3	99.3

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.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

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

2,4Diamino6NT_00094

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www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-12
Description: 2,4-Diamino-6-nitrotoluene
Lot: 220121267-01
Solvent: Acetonitrile
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Mar 10, 2022
Expiration: Apr 10, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Refrig (0-5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (LCMS)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
2,4-Diamino-6-nitrotoluene	6629-29-4	99.0	100.3	99.3

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.

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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

2,4Diamino6NT_00095

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CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-12
Description: 2,4-Diamino-6-nitrotoluene
Lot: 220121267-01
Solvent: Acetonitrile
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Mar 10, 2022
Expiration: Apr 10, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Refrig (0-5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (LCMS)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
2,4-Diamino-6-nitrotoluene	6629-29-4	99.0	100.3	99.3

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.

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The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

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

2,4Diamino6NT_00098

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USA

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CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-12
Description: 2,4-Diamino-6-nitrotoluene
Lot: 220121267-01
Solvent: Acetonitrile
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Mar 10, 2022
Expiration: Apr 10, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Refrig (0-5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (LCMS)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
2,4-Diamino-6-nitrotoluene	6629-29-4	99.0	100.3	99.3

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.

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The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

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

2,4Diamino6NT_00099

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CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-12
Description: 2,4-Diamino-6-nitrotoluene
Lot: 220121267-01
Solvent: Acetonitrile
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Mar 10, 2022
Expiration: Apr 10, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Refrig (0-5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (LCMS)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
2,4-Diamino-6-nitrotoluene	6629-29-4	99.0	100.3	99.3

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.

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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

2,6Diamino4NT_00095

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CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-13
Description: 2,6-Diamino-4-nitrotoluene
Lot: 222051002
Solvent: Acetonitrile
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: May 3, 2022
Expiration: Jun 3, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Refrig (0-5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ILAC-MRA

Component	CAS #	Purity % (GC/FID)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
2,6-Diamino-4-nitrotoluene	59229-75-3	99.7	101.0	100.7

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.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

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

2,6Diamino4NT_00096

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CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-13
Description: 2,6-Diamino-4-nitrotoluene
Lot: 222051002
Solvent: Acetonitrile
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: May 3, 2022
Expiration: Jun 3, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Refrig (0-5 °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)
2,6-Diamino-4-nitrotoluene	59229-75-3	99.7	101.0	100.7

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.

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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

2,6Diamino4NT_00099

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CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-13
Description: 2,6-Diamino-4-nitrotoluene
Lot: 222051002
Solvent: Acetonitrile
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: May 3, 2022
Expiration: Jun 3, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Refrig (0-5 °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)
2,6-Diamino-4-nitrotoluene	59229-75-3	99.7	101.0	100.7

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.

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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

2,6Diamino4NT_00100

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CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-13
Description: 2,6-Diamino-4-nitrotoluene
Lot: 222051002
Solvent: Acetonitrile
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: May 3, 2022
Expiration: Jun 3, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Refrig (0-5 °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)
2,6-Diamino-4-nitrotoluene	59229-75-3	99.7	101.0	100.7

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.

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

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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

2,6Diamino4NT_00102

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CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-13
Description: 2,6-Diamino-4-nitrotoluene
Lot: 222051002
Solvent: Acetonitrile
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: May 3, 2022
Expiration: Jun 3, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Refrig (0-5 °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)
2,6-Diamino-4-nitrotoluene	59229-75-3	99.7	101.0	100.7

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

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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.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

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

3,5-DNA LCS_00042

Preliminary Report

Eurofins Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\CHHPLC_X\20221108-115900.b\11080002.D

Lims ID: 8330AcidH2O_00003 Inj. Date: 08-Nov-2022 14:15:10

Worklist ID: 280-0115900-002 Instrument: CHHPLC_X3

Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3535	Limits 2 3535	Limits 3 3535
14 3,5-Dinitroaniline	0.5000	0.4857	97.1		71-117	55-119

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

570-115659-R-2-A 570-115659-R-3-A 570-115659-R-4-A
570-115659-R-5-A 570-115659-R-6-A

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

280-168716-B-1-A 280-168716-B-2-A 280-168716-B-3-A
280-168716-B-4-A 280-168716-B-5-A 280-168716-B-6-A
280-168716-B-7-A 280-168716-B-8-A 280-168716-B-9-A
680-224687-A-1-A 680-224687-A-2-A 680-224687-D-3-A
680-224687-B-4-A

Samples for Limit Group: 3, Lims Prep Method: 3535

860-36027-C-1-A

Reagent

3,5-DNA Stock_00036

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31661 **Lot No.:** A0149736

Description : 3,5-Dinitroaniline Standard

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

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

Expiration Date : January 31, 2024 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	3,5-Dinitroaniline	1,000.0 µg/mL	+/- 10.0737	µg/mL	Gravimetric
	CAS # 618-87-1 (Lot 10311HS)		+/- 31.3469	µg/mL	Unstressed
	Purity 99%		+/- 31.3469	µg/mL	Stressed

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

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

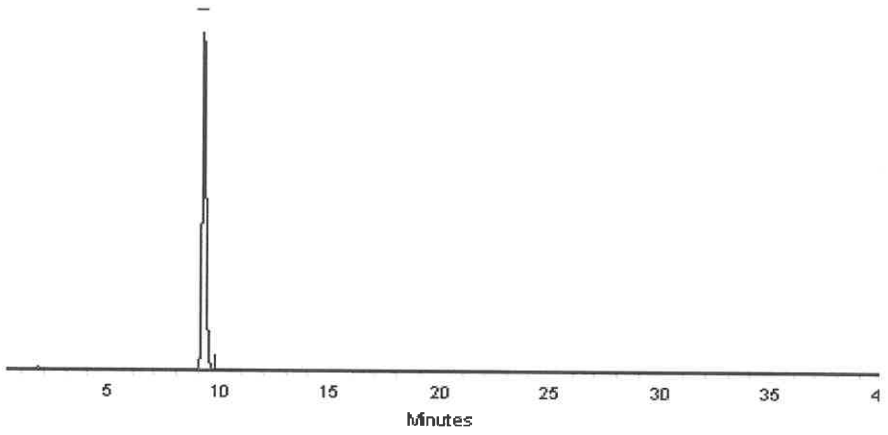
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210 nm



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.

Jessica McClenahan - Operations Technician I

Date Mixed: 03-Jun-2019 **Balance:** 1128360905

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 05-Jun-2019

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

Reagent

3,5-DNA Stock_00038

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31661 **Lot No.:** A0164976

Description : 3,5-Dinitroaniline Standard

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

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

Expiration Date : May 31, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	3,5-Dinitroaniline **CAS #** 618-87-1 **Purity** 99% (Lot 10311HS)	1,000.8 µg/mL	+/- 10.0818 µg/mL +/- 31.3720 µg/mL +/- 31.3720 µg/mL		Gravimetric Unstressed Stressed

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

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

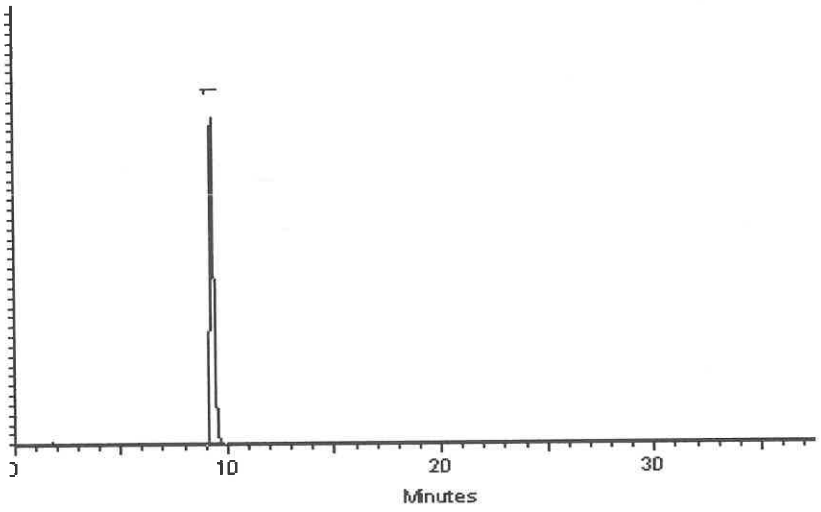
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm



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

Katelyn McGinnl - Operations Tech I

Date Mixed: 02-Oct-2020 **Balance:** 1128353505

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 06-Oct-2020

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

3,5-DNA Stock_00042

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31661 **Lot No.:** A0185772

Description : 3,5-Dinitroaniline Standard

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

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

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

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	3,5-Dinitroaniline	1,008.0 µg/mL	+/- 10.1543 µg/mL	Gravimetric
	CAS # 618-87-1 (Lot 10311HS)		+/- 31.5977 µg/mL	Unstressed
	Purity 99%		+/- 31.5977 µg/mL	Stressed

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

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

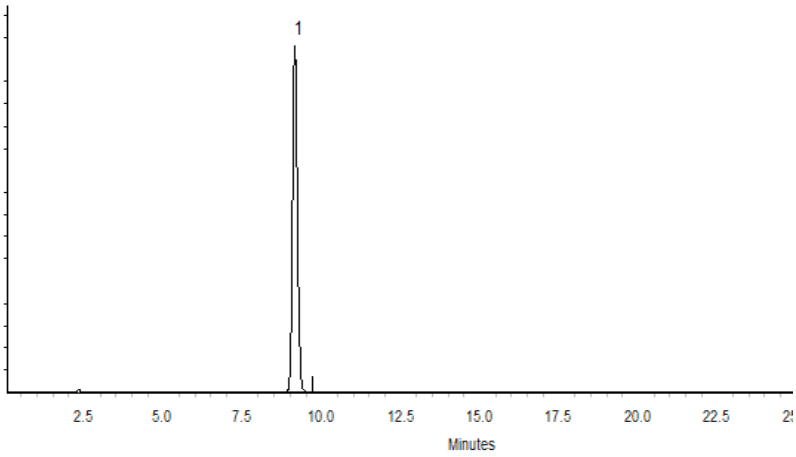
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm



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: 27-May-2022 **Balance:** 1128353505

Marlina Cowan - Operations Tech I

Date Passed: 02-Jun-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

50% NaOH_00023

RICCA CHEMICAL COMPANY®

448 West Fork Dr
Arlington, TX 76012
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

Sodium Hydroxide, 50% (w/w) (760 g/L), Analytical Reagent Grade

Lot Number: 1102857 **Product Number:** 7291

Manufacture Date: FEB 05, 2021
Expiration Date: JAN 2024

The specifications below are equivalent to the ACS Reagent Grade specifications for Sodium Hydroxide pellets, corrected for assay. There is no ACS specification for 50% (w/w) Sodium Hydroxide solution.

Name	CAS#	Grade
Water	7732-18-5	Reagent
Sodium Hydroxide	1310-73-2	Reagent

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	Passed	
Assay (vs. Sulfuric Acid/Phenolphthalein)	50-52 % (w/w)	50 % (w/w)	723
Chloride (Cl)	max 0.002 %	< 0.002 %	
Heavy Metals (as Ag)	max 0.001 %	< 0.001 %	
Iron (Fe)	max 5 ppm	0.2 ppm	3126
NH_4OH Precipitate	max 0.01 %	0.00009 %	
Nickel (Ni)	max 5 ppm	< 1 ppm	3136
Nitrogen Compounds (as N)	max 5 ppm	< 5 ppm	
Phosphate (PO_4)	max 5 ppm	< 5 ppm	
Potassium (K)	max 0.01 %	0.002 %	3141
Sodium Carbonate (Na_2CO_3)	max 0.1 %	0.02 %	
Sulfate (SO_4)	max 0.001 %	< 0.001 %	

Specification	Reference
Sodium Hydroxide Solution, 50%	ASTM (D 2187 E)
Sodium Hydroxide Solution, 50%	ASTM (D 2187 F)
Sodium hydroxide stock solution, about 50%	TAPPI (T 235 cm-85)
Sodium Hydroxide Solution	ASTM (D 2187 G)
Sodium Hydroxide Solution, 50%	ASTM (D 4548)
Sodium Hydroxide Solution (50% w/w)	ASTM (D 2036 A)
Sodium Hydroxide Solution (50% w/w)	ASTM (D 2036 B)
Sodium Hydroxide Solution (50% w/w)	ASTM (D 2036 C)
Sodium Hydroxide Solution (50% w/w)	ASTM (D 2036 D)

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)
7291-1	4 L natural poly	36 months
7291-16	500 mL natural poly	36 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Israel Alamudun (02/05/2021)
Quality Control Supervisor
This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Reagent

8330 LCS_00121

Preliminary Report

Eurofins Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\CHHPLC_X\20230121-117963.b\01210012.D

Lims ID: 8330 LCS 121 Inj. Date: 21-Jan-2023 14:04:20

Worklist ID: 280-0117963-012 Instrument: CHHPLC_X3

Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3535	Limits 2 3535	Limits 3 3535
4 HMX	0.5000	0.4694	93.9	65-135	66-115	
8 RDX	0.5000	0.4904	98.1	68-130	69-122	
9 2,4,6-Trinitrophenol	0.5000	0.5399	108.0	80-120	63-135	
11 1,3,5-Trinitrobenzene	0.5000	0.5414	108.3	73-125	62-127	
12 1,3-Dinitrobenzene	0.5000	0.5314	106.3	78-120	59-131	
13 Nitrobenzene	0.5000	0.5214	104.3	65-134	46-144	
15 Tetryl	0.5000	0.5279	105.6	64-128	56-131	
16 Nitroglycerin	5.00	5.40	107.9	74-127	70-125	
17 2,4,6-Trinitrotoluene	0.5000	0.4569	91.4	71-123	46-139	
18 4-Amino-2,6-dinitrotolu	0.5000	0.5716	114.3	76-125	43-120	
19 2-Amino-4,6-dinitrotolu	0.5000	0.4927	98.5	79-120	46-124	
20 2,6-Dinitrotoluene	0.5000	0.5185	103.7	77-127	51-130	
21 2,4-Dinitrotoluene	0.5000	0.5353	107.1	78-120	53-127	
22 o-Nitrotoluene	0.5000	0.5106	102.1	70-127	37-138	
23 p-Nitrotoluene	0.5000	0.4984	99.7	71-127	41-137	
24 m-Nitrotoluene	0.5000	0.4984	99.7	73-125	31-140	
25 PETN	5.00	5.27	105.5	73-127	67-127	

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

280-171404-A-21-A 280-171267-A-1-A 280-171267-A-2-A
280-171267-A-3-A 280-171267-A-4-A 280-171267-A-5-A
280-171267-A-6-A 280-171267-A-7-A

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

550-196288-AO-1-A 570-123967-A-1-A

Samples for Limit Group: 3, Lims Prep Method: 3535

280-171237-A-1-A 280-171237-A-2-A 280-171237-A-3-A
280-171237-A-4-A

Reagent

8330 LCS_00126

Preliminary Report

Eurofins Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\CHHPLC_X\20230426-120796.b\04260006.D

Lims ID: C18column:B16162 Inj. Date: 26-Apr-2023 15:04:00

Worklist ID: 280-0120796-006 Instrument: CHHPLC_X3

Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 0B_Sonc_	Limits 2 0B_Sonc_
4 HMX	0.5000	0.4359	87.2	80-120	74-124
8 RDX	0.5000	0.4718	94.4	80-124	67-129
9 2,4,6-Trinitrophenol	0.5000	0.5241	104.8	38-154	
11 1,3,5-Trinitrobenzene	0.5000	0.5064	101.3	80-120	80-116
12 1,3-Dinitrobenzene	0.5000	0.5004	100.1	80-120	73-119
13 Nitrobenzene	0.5000	0.5010	100.2	76-122	67-129
14 3,5-Dinitroaniline	0.5000	0.4725	94.5	80-120	86-118
15 Tetryl	0.5000	0.5711	114.2	80-120	68-135
16 Nitroglycerin	5.00	5.04	100.8	75-120	73-124
17 2,4,6-Trinitrotoluene	0.5000	0.4643	92.9	80-120	71-120
18 4-Amino-2,6-dinitrotolu	0.5000	0.4973	99.5	80-120	64-127
19 2-Amino-4,6-dinitrotolu	0.5000	0.4766	95.3	78-120	71-123
20 2,6-Dinitrotoluene	0.5000	0.4994	99.9	80-120	79-117
21 2,4-Dinitrotoluene	0.5000	0.4894	97.9	80-120	75-121
22 o-Nitrotoluene	0.5000	0.4896	97.9	80-124	70-124
23 p-Nitrotoluene	0.5000	0.4868	97.4	80-120	71-124
24 m-Nitrotoluene	0.5000	0.4890	97.8	80-122	67-129
25 PETN	5.00	5.34	106.9	80-120	72-128

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

280-174348-A-25-B	280-174348-A-26-B	280-174348-A-27-B
280-174348-A-28-B	280-174348-A-29-B	280-174348-A-30-D
280-174348-A-31-B	280-174348-A-16-B	280-174348-A-18-B
280-174348-A-19-B	280-174348-A-20-B	280-174348-A-22-B
280-174348-A-24-B	280-174485-A-7-B	280-174485-A-8-B
280-174485-A-9-B	280-174482-A-1-B	280-174482-A-2-B
280-174482-A-3-B	280-174482-A-4-B	280-174482-A-5-B
280-174482-A-6-B	280-174482-A-7-B	280-174482-A-8-B
280-174482-A-9-D	280-174482-A-10-B	280-174482-A-11-B
280-174482-A-12-B	280-174482-A-13-B	280-174482-A-14-B
280-174482-A-15-B	280-174482-A-16-B	280-174482-A-17-B
280-174482-A-18-B	280-174482-A-19-C	

Samples for Limit Group: 2, Lims Prep Method: 8330B_Sonc_10g

280-174408-A-1-I	280-174408-A-2-I

Reagent

8330 Stock_TS_00023

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_00118

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Composition

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 568871 **Lot No.:** A0188553

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, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Nitroglycerin	5,016.0 µg/mL	+/- 46.6461	µg/mL	Gravimetric
	CAS # 55-63-0 (Lot 200507JLM)		+/- 277.1256	µg/mL	Unstressed
	Purity 99%		+/- 322.4378	µg/mL	Stressed

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

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

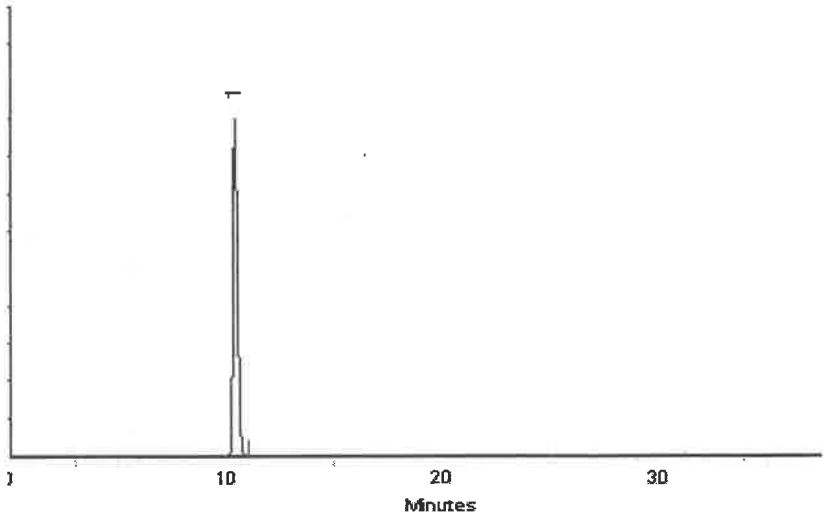
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm



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

Matt Fragassi - Mix Technician

Date Mixed: 15-Aug-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Aug-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330_NG_Stk_00120

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CERTIFIED REFERENCE MATERIAL

Certificate of Composition

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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. : 568871 **Lot No.:** A0188553

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, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Nitroglycerin	5,016.0 µg/mL	+/- 46.6461	µg/mL	Gravimetric
	CAS # 55-63-0 (Lot 200507JLM)		+/- 277.1256	µg/mL	Unstressed
	Purity 99%		+/- 322.4378	µg/mL	Stressed

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

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

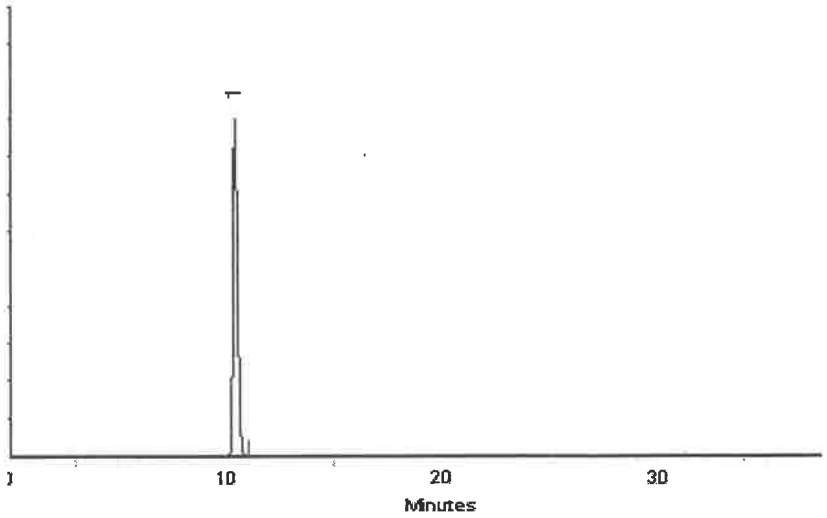
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm



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

Matt Fragassi - Mix Technician

Date Mixed: 15-Aug-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Aug-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330_NG_Stk_00130

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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.:** A0194013

Description : Custom Nitroglycerin Standard

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

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

Expiration Date : January 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%	5,036.0 µg/mL	+/- 237.6858

* 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.

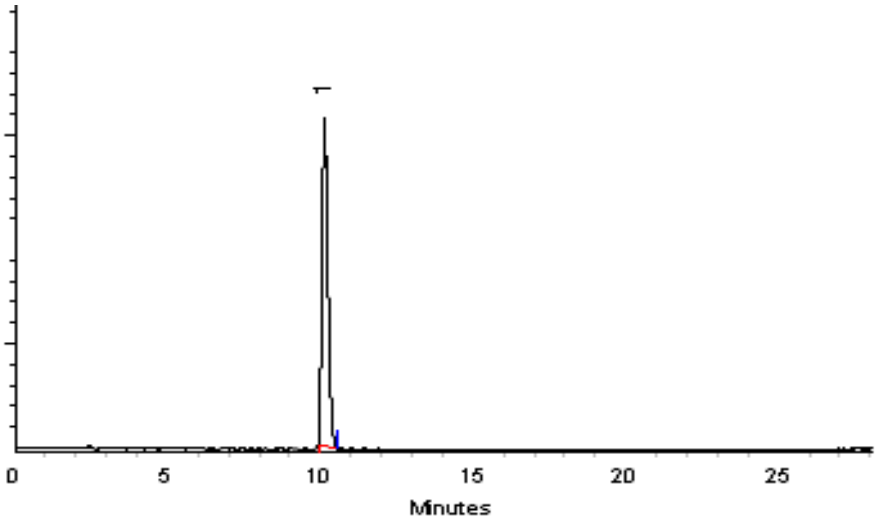
Mobile Phase A:
water:methanol (44:56 V/V)

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.

Brandon Reish - Operations Technician II

Date Mixed: 27-Jan-2023 **Balance Serial #** B251644995

Christie Mills - Operations Tech II - ARM QC

Date Passed: 31-Jan-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330_NG_Stk_00131

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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.:** A0194013

Description : Custom Nitroglycerin Standard

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

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

Expiration Date : January 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%	5,036.0 µg/mL	+/- 237.6858

* 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.

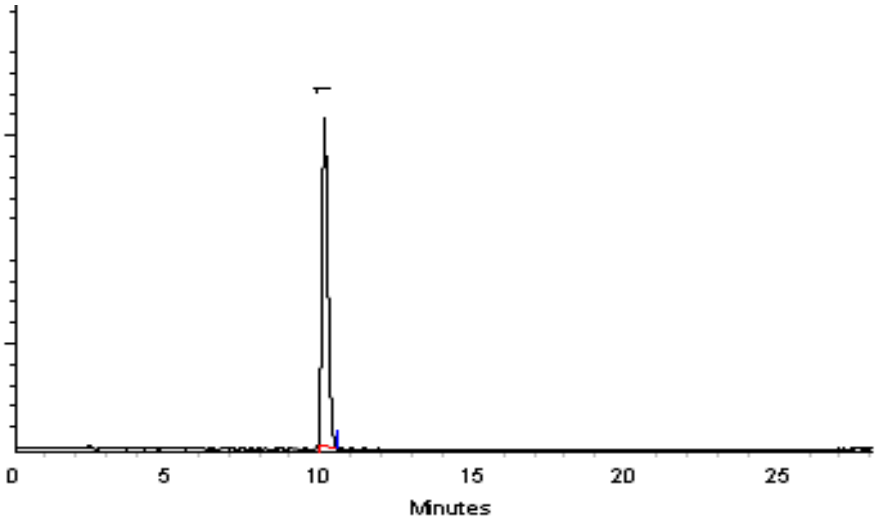
Mobile Phase A:
water:methanol (44:56 V/V)

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.

Brandon Reish - Operations Technician II

Date Mixed: 27-Jan-2023 **Balance Serial #** B251644995

Christie Mills - Operations Tech II - ARM QC

Date Passed: 31-Jan-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330_NG1000_00007

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31498 **Lot No.:** A0175997

Description : Nitroglycerin Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitroglycerin (Lot 200507JLM)	1,000.0 µg/mL	+/- 5.9397 µg/mL	Gravimetric
	CAS # 55-63-0		+/- 54.7830 µg/mL	Unstressed
	Purity 99%		+/- 63.8824 µg/mL	Stressed

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 combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330_NG1000_00010

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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31498 **Lot No.:** A0187280

Description : Nitroglycerin Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Nitroglycerin	1,004.0 µg/mL	+/- 5.9635	µg/mL	Gravimetric
	CAS # 55-63-0 (Lot 200507JLM)		+/- 55.0021	µg/mL	Unstressed
	Purity 99%		+/- 64.1379	µg/mL	Stressed

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

Reagent

8330_OP_DMT_00016

Preliminary Report

Eurofins Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\CHHPLC_X\20221230-117448.b\12300069.D

Lims ID: DMT LCS 16 Inj. Date: 30-Dec-2022 14:12:41

Worklist ID: 280-0117448-069 Instrument: CHHPLC_X3

Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 0B_Sonc_
3 TNX	0.5000	0.5437	108.7	50-150
6 DNX	0.5020	0.5259	104.8	50-150
7 MNX	0.5850	0.6258	107.0	50-150

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

280-170212-A-1-B 280-170212-A-2-D 280-170212-A-3-B
280-170212-A-4-B 280-170212-A-5-B 280-170212-A-6-B
280-170212-A-7-B 280-170212-A-8-B 280-170212-A-9-B
280-170212-A-10-D 280-170212-A-11-B 280-170212-A-12-C
280-170212-A-13-B 280-170212-A-14-B 280-170212-A-15-B
280-170212-A-16-B 280-170212-A-17-B 280-170212-A-18-B
280-170212-A-19-B 280-170212-A-20-B 280-170212-A-21-C
280-170212-A-22-B 280-170212-A-23-B 280-170212-A-24-F
280-170212-A-25-B 280-170212-A-26-C 280-170212-A-27-B
280-170212-A-28-B 280-170212-A-29-B 280-170212-A-30-B
280-170212-A-31-B 280-170212-A-32-B 280-170212-A-33-B
280-170212-A-34-B 280-170212-A-35-B 280-170212-A-36-C
280-170212-A-37-B 280-170212-A-38-B 280-170212-A-39-B
280-170212-A-40-B

Reagent

8330_OP_DMT_00020

Preliminary Report

Eurofins Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\CHHPLC_X\20230509-121258.b\05090011.D

Lims ID: DMT LCS20 Inj. Date: 09-May-2023 16:32:44

Worklist ID: 280-0121258-011 Instrument: CHHPLC_X3

Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3535	Limits 2 0B_Sonc_	Limits 3 3535
3 TNX	0.5015	0.5099	101.7	50-150		
6 DNX	0.5005	0.5059	101.1	66-119	50-150	
7 MNX	0.5835	0.6032	103.4	57-132	68-123	

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

280-175420-A-1-A 280-175420-A-2-A 280-175459-A-1-A

280-175942-A-3-A 280-175942-A-4-A 280-175942-A-5-A

Samples for Limit Group: 2, Lims Prep Method: 8330B_Sonc_10g

410-124886-B-1-A 550-201589-N-1-A 550-201670-N-1-A

Samples for Limit Group: 3, Lims Prep Method: 3535

280-175990-A-1-A 280-175990-A-2-A 280-175990-A-3-A

280-175990-A-4-A 860-48196-C-1-A

Reagent

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ACCREDITED
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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 568872 **Lot No.:** A0187506

Description : Custom PETN Standard

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

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

Expiration Date : July 31, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	PETN		5,028.0 µg/mL	+/-	46.7577	µg/mL	Gravimetric
	CAS # 78-11-5	(Lot 051108JLM)		+/-	277.7886	µg/mL	Unstressed
	Purity 99%			+/-	323.2092	µg/mL	Stressed

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

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

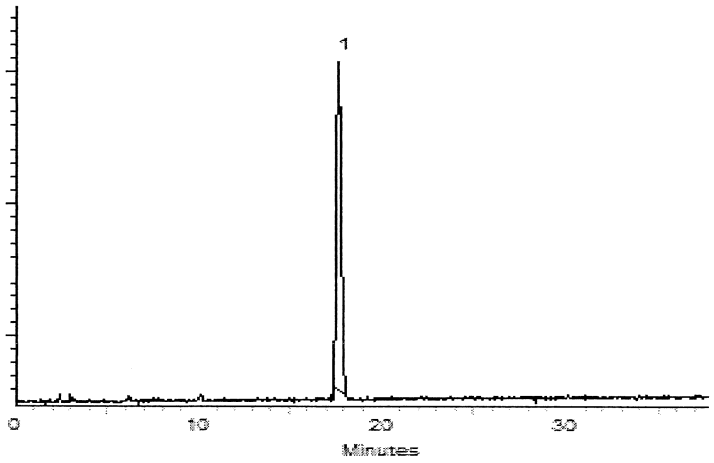
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm



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

Miranda Kline

Miranda Kline - Operations Technician I **Date Mixed:** 19-Jul-2022 **Balance:** B345965662

Fang-Yun Weaver - Operations Lead Tech - ARM QC **Date Passed:** 22-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330_PETN_Stk_00135

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CERTIFIED REFERENCE MATERIAL

Certificate of Composition

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 568872 **Lot No.:** A0188550

Description : Custom PETN Standard

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

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

Expiration Date : August 31, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	PETN	5,000.0 µg/mL	+/- 46.4973 µg/mL	Gravimetric
	CAS # 78-11-5 (Lot 051108JLM)		+/- 276.2417 µg/mL	Unstressed
	Purity 99%		+/- 321.4093 µg/mL	Stressed

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

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

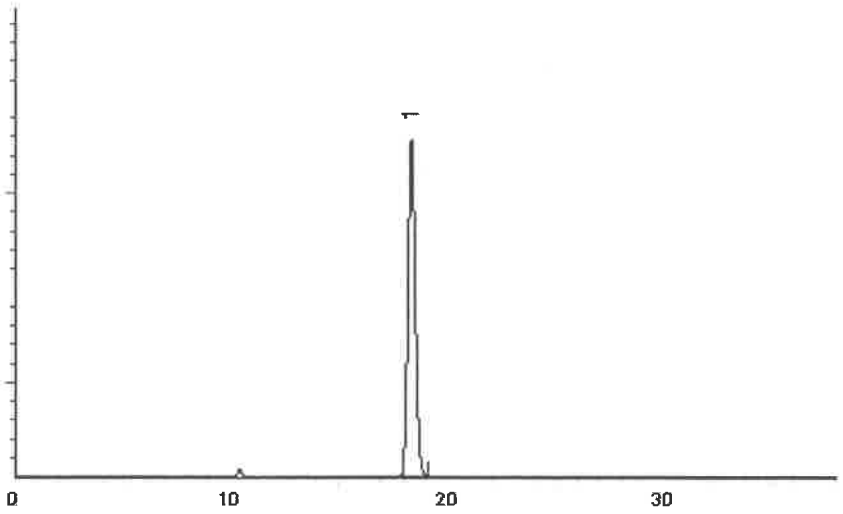
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm



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

Matt Fragassi - Mix Technician

Date Mixed: 15-Aug-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Aug-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330_PETN_Stk_00136

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Certificate #3222.02

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

Catalog No. : 568872 **Lot No.:** A0188550

Description : Custom PETN Standard

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

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

Expiration Date : August 31, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	PETN		5,000.0	µg/mL	+/- 46.4973	µg/mL	Gravimetric
	CAS # 78-11-5	(Lot 051108JLM)			+/- 276.2417	µg/mL	Unstressed
	Purity 99%				+/- 321.4093	µg/mL	Stressed

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

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

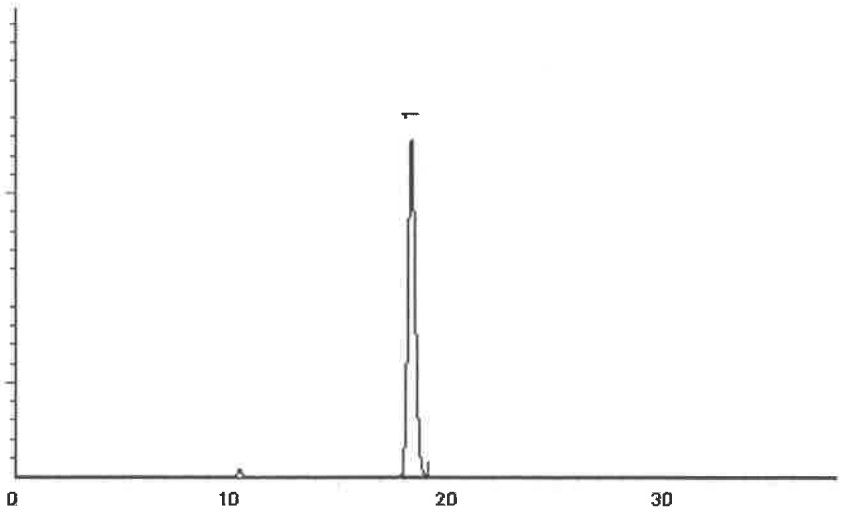
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm



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

Matt Fragassi - Mix Technician

Date Mixed: 15-Aug-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Aug-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330_PETN1000_00010

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www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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. : 31600 **Lot No.:** A0187142

Description : PETN Standard

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

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

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

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
I	PETN	1,001.0 µg/mL	+/- 5.9456	µg/mL	Gravimetric
	CAS # 78-11-5 (Lot 051108JLM)		+/- 54.8378	µg/mL	Unstressed
	Purity 99%		+/- 63.9463	µg/mL	Stressed

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

Reagent

8330_PETN1000_00011

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

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

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

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
I	PETN	1,001.0 µg/mL	+/- 5.9456	µg/mL	Gravimetric
	CAS # 78-11-5 (Lot 051108JLM)		+/- 54.8378	µg/mL	Unstressed
	Purity 99%		+/- 63.9463	µg/mL	Stressed

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

Reagent

833035DNAStk_00052

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-ADD-4
Description: 3,5-Dinitroaniline
Lot: 222011692-01
Solvent: Methanol (50%)
Acetonitrile (50%)
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Sep 6, 2022
Expiration: Oct 6, 2023
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
3,5-Dinitroaniline	618-87-1	100.0	100.6	100.6

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.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

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

833035DNAStk_00053

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-ADD-4
Description: 3,5-Dinitroaniline
Lot: 222011692-01
Solvent: Methanol (50%)
Acetonitrile (50%)
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Sep 6, 2022
Expiration: Oct 6, 2023
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/MS)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
3,5-Dinitroaniline	618-87-1	100.0	100.6	100.6

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.

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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

AccuStandard

Reagent

833035DNAStk_00054

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-ADD-4
Description: 3,5-Dinitroaniline
Lot: 222011692-01
Solvent: Methanol (50%)
Acetonitrile (50%)
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Sep 6, 2022
Expiration: Oct 6, 2023
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
3,5-Dinitroaniline	618-87-1	100.0	100.6	100.6

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.

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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

AccuStandard

Reagent

8330DiaminLCS_00052

Preliminary Report

Eurofins Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\CHHPLC_X\20221221-117211.b\12210014.D

Lims ID: 8330Dia LCS52 Inj. Date: 21-Dec-2022 13:28:20

Worklist ID: 280-0117211-014 Instrument: CHHPLC_X3

Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 0B_Sonc_	Limits 2 3535
2 2,6-diamino-4-nitrotolu	0.5000	0.5110	102.2	10-150	
5 2,4-diamino-6-nitrotolu	0.5000	0.5040	100.8	10-150	

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

280-170073-A-48-B 280-170073-A-43-B

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

280-170078-A-20-C	280-170078-A-21-C	280-170078-A-22-C
280-170078-A-23-C	280-170078-A-24-C	280-170078-A-25-B
280-170078-A-26-B	280-170078-A-27-F	280-170078-A-28-B
280-170078-A-29-B	280-170078-A-30-B	280-170078-A-31-B
280-170078-A-32-B	280-170078-A-33-B	280-170078-E-34-B

Reagent

8330LCSMix1_00136

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

www.restek.com

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31450 **Lot No.:** A0183848

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, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	HMX **CAS #** 2691-41-0 (Lot 210324JLM) **Purity** 99%	1,008.0 µg/mL	+/- 5.9872 µg/mL +/- 55.2213 µg/mL +/- 64.3934 µg/mL	Gravimetric Unstressed Stressed
2	RDX **CAS #** 121-82-4 (Lot 080228JLM) **Purity** 99%	1,007.0 µg/mL	+/- 5.9813 µg/mL +/- 55.1665 µg/mL +/- 64.3295 µg/mL	Gravimetric Unstressed Stressed
3	1,3,5-Trinitrobenzene **CAS #** 99-35-4 (Lot A6TDK) **Purity** 99%	1,008.0 µg/mL	+/- 5.9872 µg/mL +/- 55.2213 µg/mL +/- 64.3934 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Dinitrobenzene **CAS #** 99-65-0 (Lot 1-DXX-24-1) **Purity** 99%	1,006.0 µg/mL	+/- 5.9753 µg/mL +/- 55.1117 µg/mL +/- 64.2657 µg/mL	Gravimetric Unstressed Stressed
5	Nitrobenzene **CAS #** 98-95-3 (Lot 10224044) **Purity** 99%	1,007.0 µg/mL	+/- 5.9813 µg/mL +/- 55.1665 µg/mL +/- 64.3295 µg/mL	Gravimetric Unstressed Stressed
6	2,4,6-Trinitrotoluene **CAS #** 118-96-7 (Lot D11836200) **Purity** 99%	1,002.0 µg/mL	+/- 5.9516 µg/mL +/- 54.8926 µg/mL +/- 64.0101 µg/mL	Gravimetric Unstressed Stressed
7	2,4-Dinitrotoluene **CAS #** 121-14-2 (Lot MKAA0690V) **Purity** 99%	1,005.0 µg/mL	+/- 5.9694 µg/mL +/- 55.0569 µg/mL +/- 64.2018 µg/mL	Gravimetric Unstressed Stressed

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

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

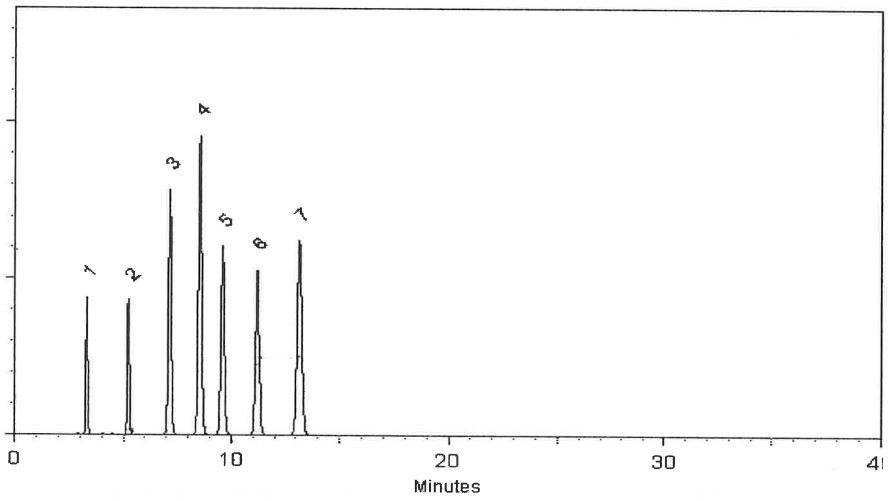
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm



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: 08-Apr-2022 **Balance:** B251644995

Feng-Yun Lo - QC Analyst

Date Passed: 13-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330LCSMix1_00141

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31450 **Lot No.:** A0183848

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, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	HMX	1,008.0 µg/mL	+/- 5.9872 µg/mL	Gravimetric
	CAS # 2691-41-0 (Lot 210324JLM)		+/- 55.2213 µg/mL	Unstressed
	Purity 99%		+/- 64.3934 µg/mL	Stressed
2	RDX	1,007.0 µg/mL	+/- 5.9813 µg/mL	Gravimetric
	CAS # 121-82-4 (Lot 080228JLM)		+/- 55.1665 µg/mL	Unstressed
	Purity 99%		+/- 64.3295 µg/mL	Stressed
3	1,3,5-Trinitrobenzene	1,008.0 µg/mL	+/- 5.9872 µg/mL	Gravimetric
	CAS # 99-35-4 (Lot A6TDK)		+/- 55.2213 µg/mL	Unstressed
	Purity 99%		+/- 64.3934 µg/mL	Stressed
4	1,3-Dinitrobenzene	1,006.0 µg/mL	+/- 5.9753 µg/mL	Gravimetric
	CAS # 99-65-0 (Lot 1-DXX-24-1)		+/- 55.1117 µg/mL	Unstressed
	Purity 99%		+/- 64.2657 µg/mL	Stressed
5	Nitrobenzene	1,007.0 µg/mL	+/- 5.9813 µg/mL	Gravimetric
	CAS # 98-95-3 (Lot 10224044)		+/- 55.1665 µg/mL	Unstressed
	Purity 99%		+/- 64.3295 µg/mL	Stressed
6	2,4,6-Trinitrotoluene	1,002.0 µg/mL	+/- 5.9516 µg/mL	Gravimetric
	CAS # 118-96-7 (Lot D11836200)		+/- 54.8926 µg/mL	Unstressed
	Purity 99%		+/- 64.0101 µg/mL	Stressed
7	2,4-Dinitrotoluene	1,005.0 µg/mL	+/- 5.9694 µg/mL	Gravimetric
	CAS # 121-14-2 (Lot MKAA0690V)		+/- 55.0569 µg/mL	Unstressed
	Purity 99%		+/- 64.2018 µg/mL	Stressed

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

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

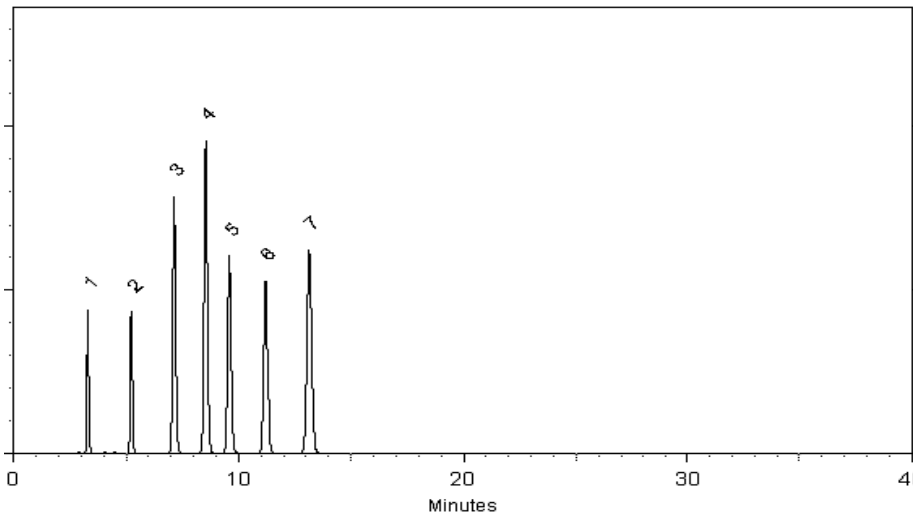
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm



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: 08-Apr-2022 **Balance:** B251644995

Fang-Yun Lo - QC Analyst

Date Passed: 13-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330LCSmix2_00034

4

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31451 **Lot No.:** A0186475

Description : 8330 Calibration Mix #2

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

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

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Tetryl **CAS #** 479-45-8 **Purity** 99% (Lot 211028JLM)	1,004.0 µg/mL	+/- 5.9635 µg/mL +/- 55.0021 µg/mL +/- 64.1379 µg/mL	Gravimetric Unstressed Stressed
2	4-Amino-2,6-dinitrotoluene **CAS #** 19406-51-0 **Purity** 99% (Lot ER070908-01)	1,002.0 µg/mL	+/- 5.9516 µg/mL +/- 54.8926 µg/mL +/- 64.0101 µg/mL	Gravimetric Unstressed Stressed
3	2-Amino-4,6-dinitrotoluene **CAS #** 35572-78-2 **Purity** 99% (Lot 29550-55)	1,002.0 µg/mL	+/- 5.9516 µg/mL +/- 54.8926 µg/mL +/- 64.0101 µg/mL	Gravimetric Unstressed Stressed
4	2,6-Dinitrotoluene **CAS #** 606-20-2 **Purity** 99% (Lot BCBB8606)	1,004.0 µg/mL	+/- 5.9635 µg/mL +/- 55.0021 µg/mL +/- 64.1379 µg/mL	Gravimetric Unstressed Stressed
5	2-Nitrotoluene **CAS #** 88-72-2 **Purity** 99% (Lot BCBZ7826)	1,002.0 µg/mL	+/- 5.9516 µg/mL +/- 54.8926 µg/mL +/- 64.0101 µg/mL	Gravimetric Unstressed Stressed
6	4-Nitrotoluene **CAS #** 99-99-0 **Purity** 99% (Lot BCCB0171)	1,002.0 µg/mL	+/- 5.9516 µg/mL +/- 54.8926 µg/mL +/- 64.0101 µg/mL	Gravimetric Unstressed Stressed
7	3-Nitrotoluene **CAS #** 99-08-1 **Purity** 99% (Lot FBO01)	1,000.0 µg/mL	+/- 5.9397 µg/mL +/- 54.7830 µg/mL +/- 63.8824 µg/mL	Gravimetric Unstressed Stressed

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

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

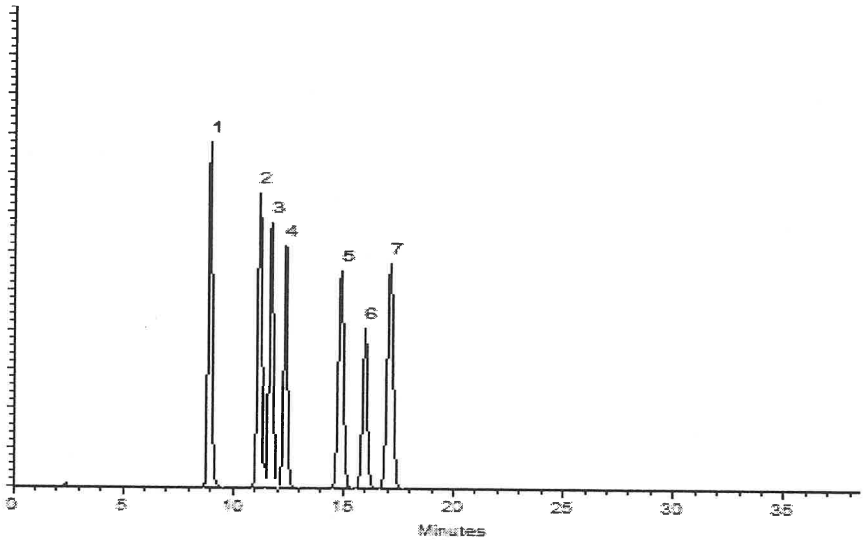
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm



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.

Ashley Frantz - Quoting Technician

Date Mixed: 21-Jun-2022 **Balance:** 1128360905

Christie Mills - Operations Tech II - ARM QC

Date Passed: 29-Jun-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330LCSmix2_00039

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CERTIFIED REFERENCE MATERIAL

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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. : 31451 **Lot No.:** A0192237

Description : 8330 Calibration Mix #2

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

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

Expiration Date : December 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	Tetryl	479-45-8	211028JLM	99%	1,006.0 µg/mL	+/- 46.9317
2	4-Amino-2,6-dinitrotoluene	19406-51-0	ER070908-01	99%	1,004.0 µg/mL	+/- 46.8384
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%	1,004.0 µg/mL	+/- 46.8384
5	2-Nitrotoluene	88-72-2	BCBZ7826	99%	1,008.0 µg/mL	+/- 47.0250
6	4-Nitrotoluene	99-99-0	BCCB0171	99%	1,002.0 µg/mL	+/- 46.7451
7	3-Nitrotoluene	99-08-1	07329LG	99%	1,008.0 µg/mL	+/- 47.0250

* 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.

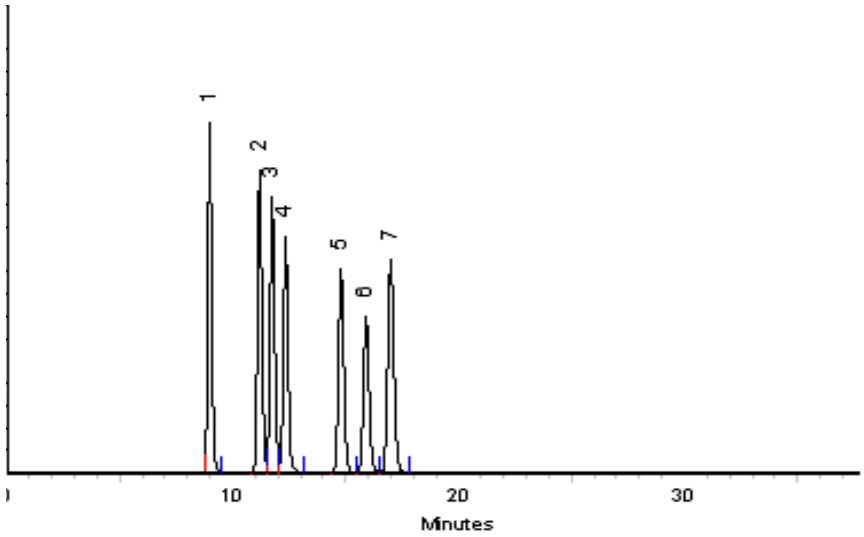
Mobile Phase A:
water:methanol (44:56 V/V)

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.

John Friedline - Operations Technician I

Date Mixed: 05-Dec-2022 **Balance Serial #** 1128342314

Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Dec-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified 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_00070

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-ADD-3
Description: Picric acid
Lot: 218031154-03
Solvent: Acetonitrile (50%)
Methanol (50%)
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Jul 7, 2021
Expiration: Aug 7, 2023
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 % (HPLC)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Picric acid	88-89-1	99.1	100.1	99.2

31499

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. 822-275872-11

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.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

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

8330PAStkPS_00071

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-ADD-3
Description: Picric acid
Lot: 218031154-04
Solvent: Acetonitrile (50%)
Methanol (50%)
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Aug 30, 2022
Expiration: Sep 30, 2024
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 % (HPLC)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Picric acid	88-89-1	99.1	100.1	99.2

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. 822-275872-11

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.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

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_00138

Preliminary Report

Eurofins Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\CHHPLC_X\20230202-118305.b\02020011.D

Lims ID: Surr138 Inj. Date: 02-Feb-2023 19:11:17

Worklist ID: 280-0118305-011 Instrument: CHHPLC_X3

Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 0B_Sonc_
$ 10 1,2-Dinitrobenzene	0.5000	0.5112	102.2	78-119

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

280-171573-C-4-B	280-171573-C-5-B	280-171573-C-6-B
280-171573-C-7-B	280-171573-C-8-B	280-171573-C-9-D
280-171573-C-10-B	280-171573-C-11-B	280-171573-B-12-B
280-171573-B-13-B	280-171573-B-14-B	280-171573-B-15-B
280-171573-B-16-B	280-171573-C-42-B	280-171573-B-43-B
280-171586-A-1-C	280-171586-A-2-C	280-171586-A-3-C
280-171586-A-4-C	280-171586-A-5-C	280-171586-A-6-J
280-171586-A-7-C		

Reagent

8330Surrogate_00143

Preliminary Report

Eurofins Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\CHHPLC_X\20230413-120394.b\04130011.D

Lims ID: 8330Surr143 Inj. Date: 13-Apr-2023 17:28:02

Worklist ID: 280-0120394-011 Instrument: CHHPLC_X3

Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 0B_Sonc_	Limits 2 0B_Sonc_
$ 10 1,2-Dinitrobenzene	0.5000	0.5398	108.0	83-122	78-119

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

280-174145-A-1-E	280-174145-A-2-C	280-174145-A-3-B
280-174145-A-4-B	280-174145-A-5-B	280-174145-A-6-B
280-174145-A-7-C	280-174145-A-8-B	280-174145-A-9-B
280-174145-A-10-B	280-174145-A-11-B	280-174145-A-12-B
280-174145-A-13-B	280-174145-A-14-B	280-174145-A-15-D
280-174145-A-16-B	280-174145-A-17-B	280-174145-A-18-B
280-174145-A-19-B	280-174145-A-20-B	

Samples for Limit Group: 2, Lims Prep Method: 8330B_Sonc_10g

280-174388-A-1-C	280-174388-A-2-C	280-174388-A-3-C
280-174388-A-4-C	280-174388-A-5-C	280-174388-A-6-C
280-174388-A-7-G	280-174388-A-8-G	280-174388-A-9-C
280-174388-A-10-C	280-174388-A-11-C	280-174388-A-12-C
280-174388-A-13-C	280-174388-A-14-C	280-174388-A-15-C
280-174388-A-16-C	280-174388-A-17-C	280-174388-A-18-C
280-174388-A-19-C	280-174388-A-20-C	

Reagent

8330SurrStkSS_00245

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 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. : 31453 **Lot No.:** A0192220

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, 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	1,2-Dinitrobenzene	528-29-0	MKCH6067	99%	1,000.0 µg/mL	+/- 56.1888

* 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.

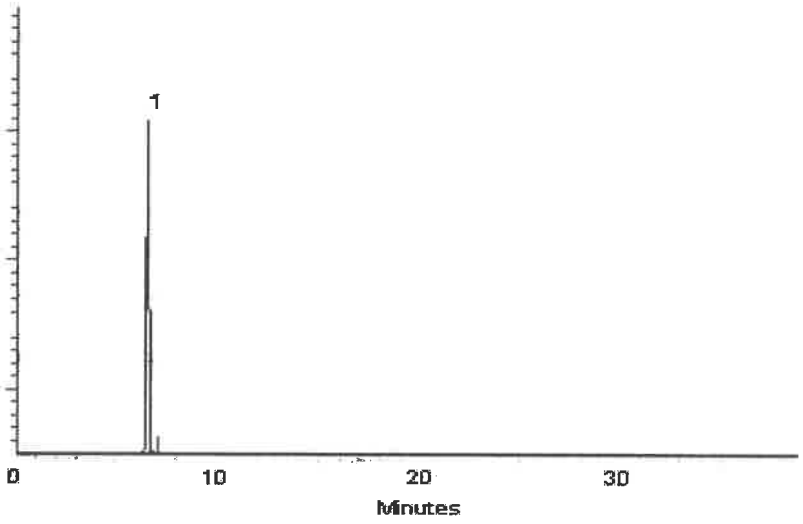
Mobile Phase A:
water:methanol (44:56 V/V)

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.

Alicia Leathers - Operation Technician I **Date Mixed:** 04-Dec-2022 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 06-Dec-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified 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_00246

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 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. : 31453 **Lot No.:** A0192220

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, 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	1,2-Dinitrobenzene	528-29-0	MKCH6067	99%	1,000.0 µg/mL	+/- 56.1888

* 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.

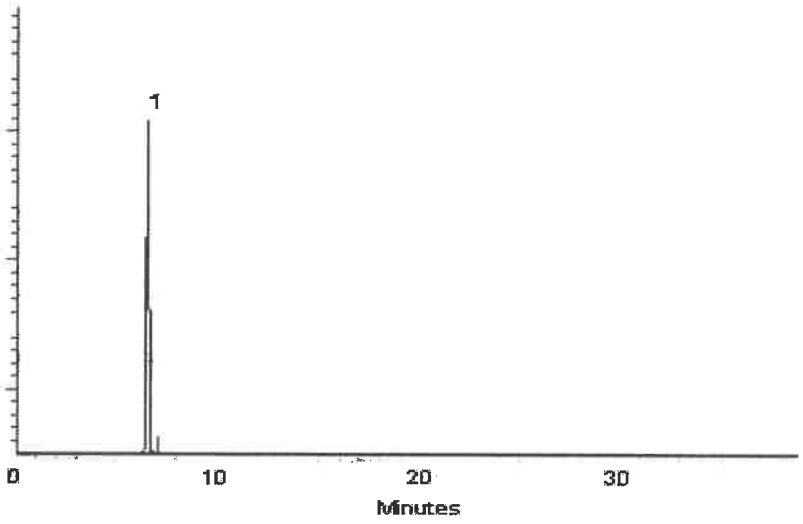
Mobile Phase A:
water:methanol (44:56 V/V)

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.

Alicia Leathers - Operation Technician I

Date Mixed: 04-Dec-2022 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Dec-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified 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_00247

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.:** A0192220

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, 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	1,2-Dinitrobenzene	528-29-0	MKCH6067	99%	1,000.0 µg/mL	+/- 56.1888

* 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.

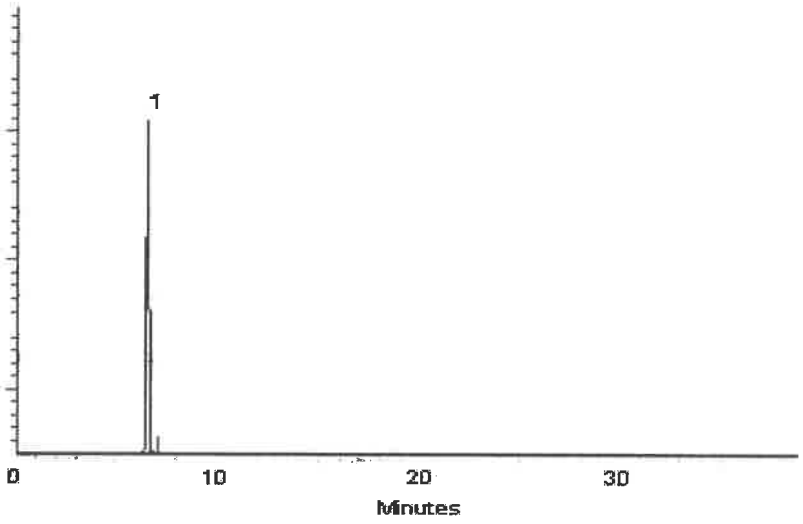
Mobile Phase A:
water:methanol (44:56 V/V)

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.

Alicia Leathers - Operation Technician I **Date Mixed:** 04-Dec-2022 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 06-Dec-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified 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_00248

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 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. : 31453 **Lot No.:** A0192220

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, 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	1,2-Dinitrobenzene	528-29-0	MKCH6067	99%	1,000.0 µg/mL	+/- 56.1888

* 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.

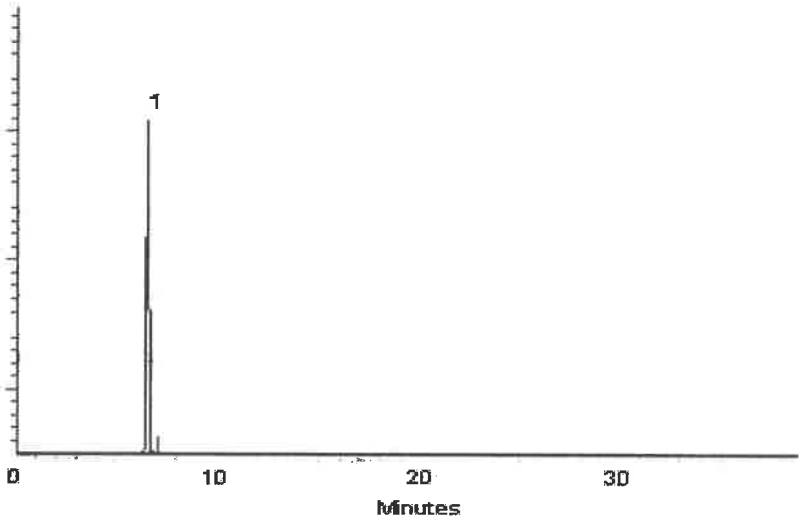
Mobile Phase A:
water:methanol (44:56 V/V)

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.

Alicia Leathers - Operation Technician I **Date Mixed:** 04-Dec-2022 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 06-Dec-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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- 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_00249

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 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. : 31453 **Lot No.:** A0192220

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, 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	1,2-Dinitrobenzene	528-29-0	MKCH6067	99%	1,000.0 µg/mL	+/- 56.1888

* 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.

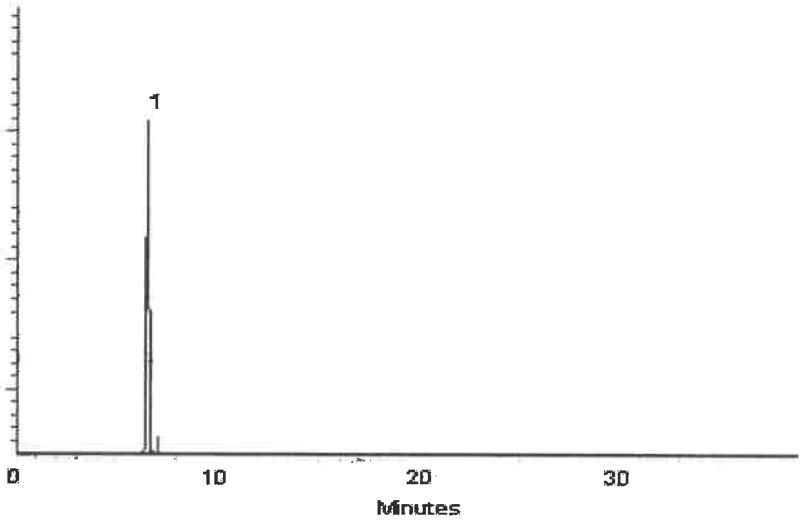
Mobile Phase A:
water:methanol (44:56 V/V)

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.

Alicia Leathers - Operation Technician I

Date Mixed: 04-Dec-2022 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Dec-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified 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_00263

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.:** A0193444

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

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

Expiration Date : January 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	MKCH6067	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.

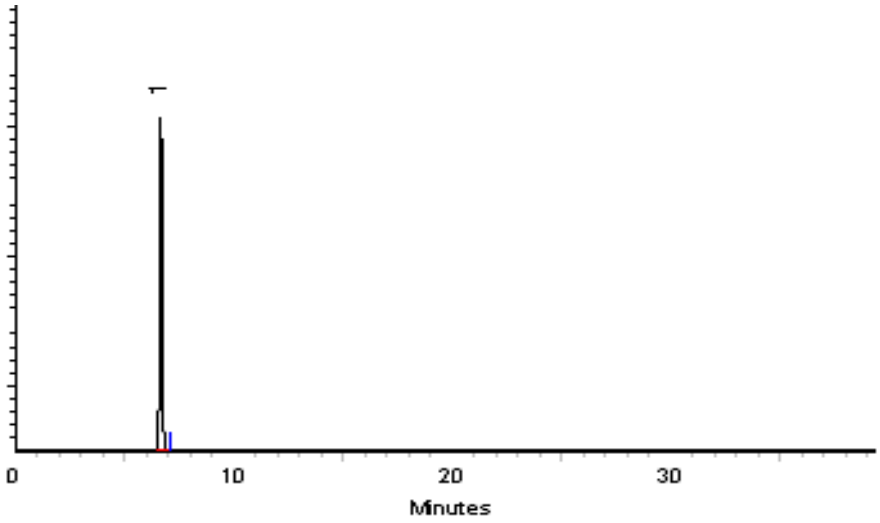
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
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: 11-Jan-2023 **Balance Serial #** 1127510105

Christie Mills - Operations Tech II - ARM QC

Date Passed: 16-Jan-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330SurrStkSS_00265

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

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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. : 31453 **Lot No.:** A0193444

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

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

Expiration Date : January 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	MKCH6067	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.

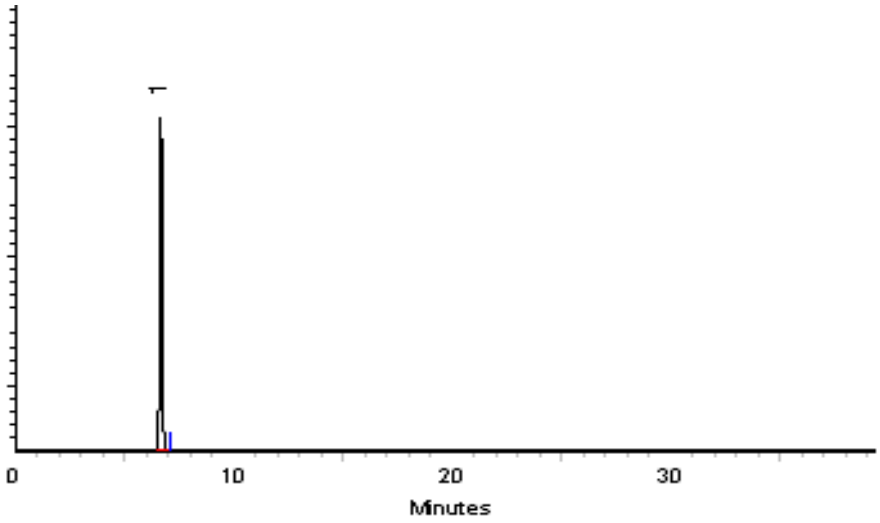
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
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: 11-Jan-2023 **Balance Serial #** 1127510105

Christie Mills - Operations Tech II - ARM QC

Date Passed: 16-Jan-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330SurrStkSS_00266

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

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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. : 31453 **Lot No.:** A0194831

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

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

Expiration Date : February 29, 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	MKCH6067	99%	1,004.8 µg/mL	+/- 56.4585

* 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.

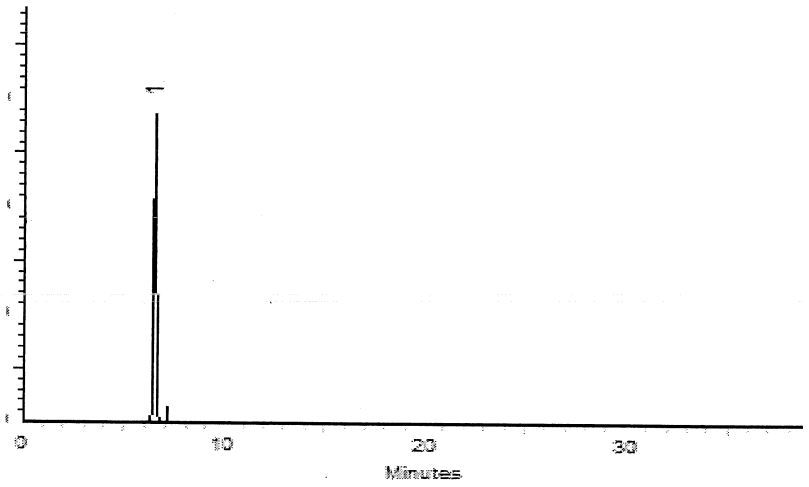
Mobile Phase A:
water:methanol (44:56 V/V)

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.

Stacey Wanner - Operations Technician I **Date Mixed:** 20-Feb-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 21-Feb-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330SurrStkSS_00267

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

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Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
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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. : 31453 **Lot No.:** A0194831

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

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

Expiration Date : February 29, 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	MKCH6067	99%	1,004.8 µg/mL	+/- 56.4585

* 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.

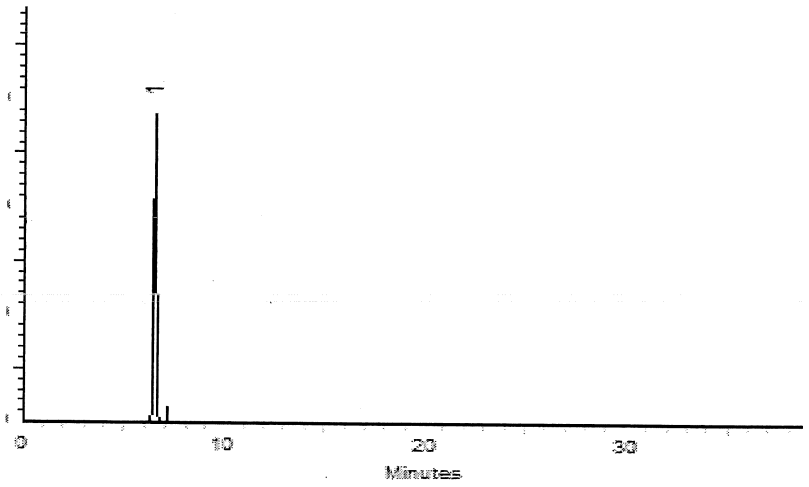
Mobile Phase A:
water:methanol (44:56 V/V)

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.

Stacey Wanner - Operations Technician I **Date Mixed:** 20-Feb-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 21-Feb-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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Certified Uncertainty Value Notes:

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Manufacturing Notes:

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

Reagent

8330SurrStkSS_00268

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

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ACCREDITED
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Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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Catalog No. : 31453 **Lot No.:** A0194831

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

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

Expiration Date : February 29, 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	MKCH6067	99%	1,004.8 µg/mL	+/- 56.4585

* 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.

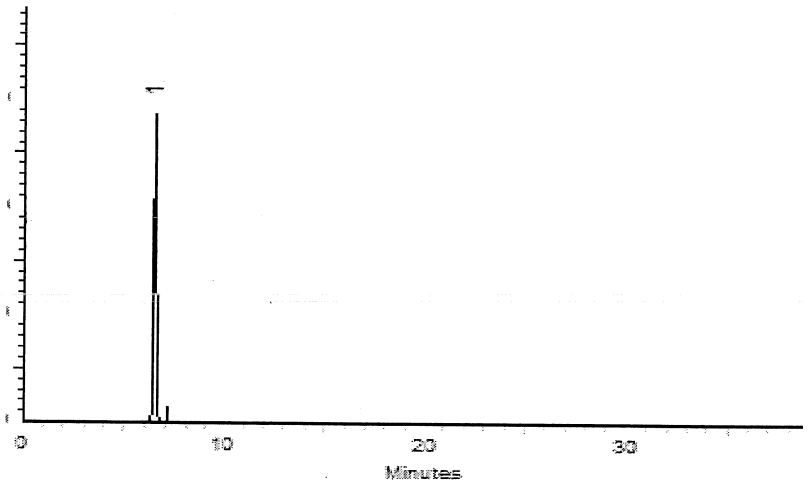
Mobile Phase A:
water:methanol (44:56 V/V)

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm

Inj. Vol
2µl



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Stacey Wanner - Operations Technician I **Date Mixed:** 20-Feb-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 21-Feb-2023

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

General Certified Reference Material Notes

Expiration Notes:

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Manufacturing Notes:

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

Reagent

8330SurrStock_00172

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.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

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

Alk stk std_00023

spex certiprep

ACCREDITED
Reference Materials Producer
Cert# 2495.01

SPEXertificate®

Certificate of Reference Material

ilac-MRA ACCREDITED
Chemical Testing
Cert# 2495.02

Catalog Number: VTACO-3 **Lot No.:** 2-106BT

Description: Custom Standard

Matrix: H_2O

This Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for conductance meters and conductivity cells used in water purity measurements. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

The CRM is prepared gravimetrically using high purity sodium carbonate (Na_2CO_3) Lot# H04155 and ASTM Type I water, using Class A laboratory ware to give precise concentration.

Certified Value:

Analyte:	Na_2CO_3
Alkalinity:	50,000 µg/mL as $CaCO_3$
Uncertainty:	±500 µg/mL
Traceable to:	Standard made from NIST SRM # 351a

Balances are calibrated regularly with weight sets traceable to NIST#s 32856, 32867. This CRM is guaranteed stable to ±1% of the certified concentration inclusive of uncertainty of measurements and other components such as homogeneity, long and short-term stability for a period of one year from the date of certification. This guarantee is valid only when the material is kept tightly capped and stored under ambient laboratory conditions.

Date of Certification: OCT - - 2022

Certifying Officer: Katherine Cullinan

Katherine Cullinan, QC Manager

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Report of Certification

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001 (certified by DQS), ISO/IEC 17025 (accredited by A2LA) and ISO 17034 (accredited by A2LA) quality system consistent with the following guides:

- ISO 9001: Quality management systems – Requirements
- ISO/IEC 17025: General requirements for the competence of testing and calibration laboratories
- ISO 17034: General requirements for the competence of reference material producers
- ISO Guide 30: Reference Materials – Selected terms and definitions
- ISO Guide 31: Reference Materials – Contents of certificates, labels, and accompanying documentation
- ISO Guide 35: Reference Materials – Guidance for characterization and assessment of homogeneity and stability
- Guide to the Expression of Uncertainty in Measurement, 2008
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurement – Third Edition
- NIST Technical Note 1297

Material Source:
All analytes and matrix materials are obtained and verified by Spex CertiPrep from pre-qualified vendors as per ISO 9001, ISO/IEC 17025 and ISO 17034 guidelines. Vendor identifications are proprietary; however, sources of all materials used in the preparation and testing of Spex CertiPrep CRMs are tracked and documented. For further assistance, please contact Sales Support at USMet-CRMSales@antylia.com.

Instructions for Use:
Primary usage of this CRM is in neat form or diluted serially with matrix of a purity at or greater than the purity of the original matrix solution. If dilution is required, the diluent must be compatible with all certified analytes and contain stabilizers appropriate for the period of intended use. The CRM can also be used as a spike or with a spike, again with appropriate compatibility considerations. All solutions should be thoroughly mixed, by shaking, prior to use and never pipetted directly from the bottle. Do not return excess solution to the bottle. All surfaces that come in contact with the solution must be thoroughly cleaned and leached prior to use. Dilutions should be performed only with Class A volumetric glassware. See SDS for health and safety information.

Method of Preparation:
Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, analytical instrumentation and personnel have been qualified prior to use. The highest purity acids applicable, 18 megohm, double deionized water, acid-leached triple-rinsed bottles (where appropriate), and Class A/calibrated volumetrics have been used in all preparations.

Homogeneity:
The homogeneity of the CRM has been confirmed by procedures consistent with ISO/IEC 17025, ISO 17034, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4600-HOMOGEN-1A. Since the product is highly homogeneous, any sample size taken for analysis would be within the uncertainty budget. This is consistent with the intended use of the CRM.

Statistical Estimator and Confidence Limits:
The certified value 'X' listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X = certified value, U = expanded uncertainty, x = property value
- $U = ku_c$ where k = 2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual element standard uncertainty components u_i and $u_c = \sqrt{\Sigma u_i^2}$

Certification Report:
All certified values reported were derived from the Certification Report, Spex CertiPrep's traceability documentation, identified by the lot number of this CRM. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further assistance, please contact Sales Support at USMet-CRMSales@antylia.com.

Legal Notice:
Spex CertiPrep reference materials are not for any cosmetic, drug or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against Spex CertiPrep, LLC. of any kind whatsoever, whether based on breach of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall Spex CertiPrep, LLC. be liable for any loss of profits or any incidental, special, or consequential damages.

Reagent

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Certificate of Analysis

Bromide Standard, 1000 ppm Br^-

Lot Number: 4110L50 **Product Number:** 1180

Manufacture Date: OCT 22, 2021
Expiration Date: APR 2023

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
Sodium Bromide	7647-15-6	High Purity

Test	Specification	Result
Appearance	Colorless liquid	Passed
Bromide (Br)	995-1005 ppm	1000 ppm

Specification	Reference
Bromide Solution, Standard (1 mL = 1 mg Br-)	ASTM (D 3869 D)
Standard Bromide Solution, 1000 mg/L	APHA (4110 B)
Bromide Stock Solution (1.00 mL = 1.00 mg Br-)	EPA (SW-846) (9056)
Sodium Bromide Standard Solution, 1000 mg/L	ASTM (D 1246)
Bromide Stock Solution (1.00 mL = 1.00 mg Br?)	ASTM (D 4327)

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)
1180-16	500 mL natural poly	18 months
1180-4	120 mL natural poly	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Brandy Bates

Brandy Bates (10/22/2021)
Quality Control Supervisor
This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

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Reagent

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Certificate of Analysis

Fluoride Standard, 1000 ppm F⁻

Lot Number: 2207H13 **Product Number:** 3173

Manufacture Date: JUL 29, 2022
Expiration Date: JAN 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.
The concentration is confirmed by Fluoride ISE and is certified traceable to NIST SRM 2203.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Fluoride	7681-49-4	High Purity

Test	Specification	Result
Appearance	Colorless liquid	Passed
Fluoride (F)	995-1005 ppm	1005 ppm

Specification	Reference
Fluoride Solution, Stock (1.00 mL = 1.00 mg F)	ASTM (D 5542)
Fluoride Stock Solution (1.00 mL = 1.00 mg F-)	EPA (SW-846) (9056)
Fluoride Calibration Stock Solution (1,000 mg/L F-)	EPA (SW-846) (9214)
Stock Solution, 1.0 mL = 1.0 mg F	EPA (340.3)
Fluoride Solution, Stock (1.00 mL = 1.00 mg F)	ASTM (D 5996)
Fluoride Stock Solution (1.00 mL = 1.00 mg F?)	ASTM (D 4327)
Fluoride Stock Standard Solution (1 mg of F in 1 mL)	ACS (N/A)

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)
3173-16	500 mL natural poly	18 months
3173-32	1 L natural poly	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Myrlande Gilles (07/29/2022)
Quality Control
This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

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Reagent

IC MS/MSD N02_00005

ThermoFisher SCIENTIFIC

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	S347	Quality Test / Release Date	03/26/2021
Lot Number	210979		
Description	SODIUM NITRITE, A.C.S.		
Country of Origin	India	Suggested Retest Date	Jan/2023
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Yellow-white crystals
ASSAY	%	>= 97	100.9
CALCIUM	%	<= 0.01	<0.01
CHLORIDE	%	<= 0.005	<0.005
HEAVY METALS (as Pb)	%	<= 0.001	<0.001
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.01	<0.01
IRON (Fe)	%	<= 0.001	<0.001
POTASSIUM (K)	%	<= 0.005	<0.005
SULFATE (SO4)	%	<= 0.01	<0.01

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Reagent

IC MS/MSD S04_00006

Fisher Scientific

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Certificate of Analysis

Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2008 standard by SAI Global Certificate Number CERT - 0064970

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Certain products (USP/FCC/NF/EP/BP/JP grades) are sold for use in food, drug, or medical device manufacturing. Fisher does not claim regulatory coverage under 21 CFR nor maintain DMF's with the FDA. The following are the actual analytical results obtained:

Catalog Number	**P304**	**Quality Test / Release Date 3/2/2015**	
Lot Number	**147276**		
Description	**POTASSIUM SULFATE, CRYSTAL, CERTIFIED, A.C.S.**		
Country of Origin	**India**	*** Suggested Retest Date**	**Feb-2020**
Chemical Origin	**Inorganic-non animal**		
BSE/TSE Comment	This product is not manufactured from, or with, any type of animal product, nor any derivative of an animal product. As such, this product should not be considered a vector for BSE or TSE.		

Result name	Units	Specifications	Test Value
APPEARANCE		REPORT	FINE WHITE CRYSTALS
ASSAY	%	>= 99	99.4
CALCIUM	%	<= 0.01	<0.010
CHLORIDE	%	<= 0.001	<0.0010
HEAVY METALS (as Pb)	ppm	<= 5	<5.0
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INSOLUBLE MATTER	%	<= 0.01	<0.010
IRON (Fe)	ppm	<= 5	<5.0
MAGNESIUM	%	<= 0.005	<0.0050
NITROGEN COMPOUNDS	ppm	<= 5	<5
PH 5% SOLUTION @ 25 DEG C		Inclusive Between 5.5 - 8.5	5.5
SODIUM (Na)	%	<= 0.02	<0.020

Lab Manager Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as a extension of this catalog number listed above. If there are any questions with this certificate, please call Chemical Services at (800) 227-6701.
*Based on suggested storage condition.

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Certificate of Analysis

Nitrate Nitrogen Standard, 1000 ppm N (4427 ppm NO_3^-)

Lot Number: 2205B73 **Product Number:** 5459

Manufacture Date: MAY 11, 2022
Expiration Date: NOV 2023

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
Potassium Nitrate	7757-79-1	High Purity
Chloroform	67-66-3	

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

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Myrlande Gilles (05/11/2022)
Quality Control

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Reagent

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Certificate of Analysis

Nitrite Nitrogen Standard, 1000 ppm N (3285 ppm NO_2^-)

Lot Number: 2212826 **Product Number:** 5461

Manufacture Date: DEC 08, 2022
Expiration Date: JUN 2023

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
5461-4	120 mL natural poly	6 months

Recommended Storage: 2°C - 8°C (36°F - 46°F)

Myrlande Gilles (12/08/2022)
Quality Control

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Reagent

IC NO2 ICV_00022

ERA

A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product:	1000 mg/L Nitrite as N (NO_2-N)
Catalog Number:	053-125mL, 990-500mL
Lot No.	261221m
Starting Material:	Sodium Nitrite ($NaNO_2$)
Matrix:	18 megohm deionized water
Density:	1.0022 ± 0.0005 g/mL 21.3 °C and 740 mm Hg
Verification Method:	Ion Chromatography
Certificate Issue Date:	December 21, 2021
Expiration Date:	December 14, 2023
Revision Number:	Original

CERTIFICATION

Parameter	Certified Value[1]	Uncertainty[2]	NIST Traceability	
	mg/L	%	SRM Number[3]	Recovery %
Nitrite as N (NO_2-N)	1000	0.948	-	-

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Certified Reference Material

▪ Certificate of Analysis ▪

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

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

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Reagent

IC NO3 ICV_00019

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product:	1000 mg/L Nitrate as N (NO_3-N)
Catalog Number:	052-125mL, 991-500mL
Lot No.	011221m
Starting Material:	Potassium Nitrate (KNO_3)
Matrix:	18 megohm deionized water
Density:	1.0029 ± 0.0005 g/mL 20.2 °C and 749 mm Hg
Verification Method:	Ion Chromatography
Certificate Issue Date:	December 21, 2021
Expiration Date:	December 1, 2023
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	1.57	3185	101

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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

Brian Miller

Quality Officer
Matthew Seebeck

ISO 17034:2016 ACCREDITED Reference Material Producer CERT #1529.03

ISO/IEC 17025:2017 ACCREDITED Chemical Testing Laboratory CERT #1539.02

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Reagent

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Certificate of Analysis

Phosphorus AA Standard, 1000 ppm P in H_2O

Lot Number: 4208152 **Product Number:** AP1KW

Manufacture Date: AUG 02, 2022
Expiration Date: JUL 2024

This is a single element solution that was prepared volumetrically to contain the certified value reported. The uncertainty associated with the certified value is the sum of the estimated errors due to the purity of the raw material, the volumetric preparation of the solution, and transpiration of the solution through the container wall.
The final solution concentration is confirmed by AA, ICP, or ICP-MS, and is traceable to NIST Standard Reference Material 3139.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Ammonium Dihydrogen Phosphate	7722-76-1	High Purity

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	Passed	
Phosphorus (P)	995-1005 ppm	1000 ppm	3139

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)
AP1KW-500	500 mL natural poly	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Paul Brandon (08/02/2022)
Production Manager
This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Reagent

IC SO4 Cal_00008

spex®
certiprep

Reference Materials Producer
Cert #2495.01

SPEXertificate®

Certificate of Reference Material

Chemical Testing
Cert #2495.02

Catalog Number: AS-SO49-2X **Lot No.** 5-160SO4-2X

Description: 1000 µg/mL Sulfate

Matrix: H_2O

This **Ion Chromatography** Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for ion chromatography instrumentation. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Value: 1000 µg/mL ±5 µg/mL

Certified Value is Traceable to: 3181*

* - indicates NIST SRM † - indicates SPEX CertiPrep CRM (when NIST SRM is not available) ‡ - prepared gravimetrically

The CRM is prepared gravimetrically using high purity Potassium Sulfate, Lot# AN07201A. The certified value listed is the average of values obtained by classical wet assay and ion chromatography analysis.

Refer to side 2 for details of measurement uncertainties.

Classical Wet Assay: 999 µg/mL

Method: Precipitation using Barium Chloride. Filter, ignite, and weigh as BaSO4.

Instrumental Analysis by Ion Chromatography: 1000 µg/mL

Uncertified Properties

Trace Ionic Impurities in the Actual Solution via IC Analysis:

Element	µg/mL	Element	µg/mL
Br^-	<0.01	NO_2^-	<0.01
Cl^-	<0.03	NO_3^-	<0.02
F^-	<0.003	$PO4^{-3}$	<0.08

Balances are calibrated regularly with weight sets traceable to NIST #32856, #32867 and others. This CRM is guaranteed stable and accurate to +/- 0.5% of the certified value. This includes uncertainty components due to preparation, homogeneity by the most precise method, and short-term and long-term stability. This guarantee is valid for a period of one year from the date of certification only when the material is kept tightly capped and stored under ambient laboratory conditions.

Date of Certification: JUL - - 2022 Certifying Officer: Katherine Cullinan

Katherine Cullinan, QC Manager

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Report of Certification

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001 (certified by DQS), ISO/IEC 17025 (accredited by A2LA) and ISO 17034 (accredited by A2LA) quality system consistent with the following guides:

- ISO 9001: Quality management systems – Requirements
- ISO/IEC 17025: General requirements for the competence of testing and calibration laboratories
- ISO 17034: General requirements for the competence of reference material producers
- ISO Guide 30: Reference Materials – Selected terms and definitions
- ISO Guide 31: Reference Materials – Contents of certificates, labels, and accompanying documentation
- ISO Guide 35: Reference Materials – Guidance for characterization and assessment of homogeneity and stability
- Guide to the Expression of Uncertainty in Measurement, 2008
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurement – Third Edition
- NIST Technical Note 1297

Material Source:
All analytes and matrix materials are obtained and verified by Spex CertiPrep from pre-qualified vendors as per ISO 9001, ISO/IEC 17025 and ISO 17034 guidelines. Vendor identifications are proprietary; however, sources of all materials used in the preparation and testing of Spex CertiPrep CRMs are tracked and documented. For further assistance, please contact Sales Support at USMet-CRMSales@antylia.com.

Instructions for Use:
Primary usage of this CRM is in neat form or diluted serially with matrix of a purity at or greater than the purity of the original matrix solution. If dilution is required, the diluent must be compatible with all certified analytes and contain stabilizers appropriate for the period of intended use. The CRM can also be used as a spike or with a spike, again with appropriate compatibility considerations. All solutions should be thoroughly mixed, by shaking, prior to use and never pipetted directly from the bottle. Do not return excess solution to the bottle. All surfaces that come in contact with the solution must be thoroughly cleaned and leached prior to use. Dilutions should be performed only with Class A volumetric glassware. See SDS for health and safety information.

Method of Preparation:
Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, analytical instrumentation and personnel have been qualified prior to use. The highest purity acids applicable, 18 megohm, double deionized water, acid-leached triple-rinsed bottles (where appropriate), and Class A/calibrated volumetrics have been used in all preparations.

Homogeneity:
The homogeneity of the CRM has been confirmed by procedures consistent with ISO/IEC 17025, ISO 17034, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4600-HOMOGEN-1A. Since the product is highly homogeneous, any sample size taken for analysis would be within the uncertainty budget. This is consistent with the intended use of the CRM.

Statistical Estimator and Confidence Limits:
The certified value 'X' listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X = certified value, U = expanded uncertainty, x = property value
- $U = ku_c$ where k = 2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual element standard uncertainty components u_i and $u_c = \sqrt{\Sigma u_i^2}$

Certification Report:
All certified values reported were derived from the Certification Report, Spex CertiPrep's traceability documentation, identified by the lot number of this CRM. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further assistance, please contact Sales Support at USMet-CRMSales@antylia.com.

Legal Notice:
Spex CertiPrep reference materials are not for any cosmetic, drug or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against Spex CertiPrep, LLC. of any kind whatsoever, whether based on breach of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall Spex CertiPrep, LLC. be liable for any loss of profits or any incidental, special, or consequential damages.

Reagent

IC SO4 ICV_00024

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product:	1000 mg/L Sulfate
Catalog Number:	062-125mL, 995-500mL
Lot No.	021221m
Starting Material:	Potassium Sulfate (K_2SO_4)
Matrix:	18 megohm deionized water
Density:	1.0002 ± 0.0005 g/mL 20.4 °C and 748 mm Hg
Verification Method:	Ion Chromatography
Certificate Issue Date:	December 22, 2021
Expiration Date:	December 1, 2023
Revision Number:	Original

CERTIFICATION

Parameter	Certified Value[1]	Uncertainty[2]	NIST Traceability	
	mg/L	%	SRM Number[3]	Recovery %
Sulfate	1000	0.994	3181	97.5

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

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

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ 800.372.0122 ▪ 303.431.8454 ▪ fax 303.421.0159 ▪ www.eraqc.com

Reagent

MNX,TNX,DNX_00069

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name: Custom Standard
Product Number: CUS-23984
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006659035
Lot Issue Date: 11-Jan-2022
Expiration Date: 28-Feb-2023

Component Name	CERTIFIED VALUES Concentration	Expanded 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)	100.4 ±	0.5 µg/mL	N/A	RM12428
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX)	117.0 ±	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 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:

Reagent

MNX,TNX,DNX_00076

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: 0006725091

Lot Issue Date: 31-Jan-2023

Expiration Date: 29-Feb-2024

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)	100.3	±	0.5 µg/mL	N/A	RM12426
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane (DNX)	100.1	±	0.5 µg/mL	N/A	RM12428
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX)	116.7	±	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 (RM) 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. Purity values are taken from approved vendor raw material certificates.

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 (RM) 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 (RM) 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:

Reagent

MNX,TNX,DNX_00077

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: 0006725091

Lot Issue Date: 31-Jan-2023

Expiration Date: 29-Feb-2024

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)	100.3	±	0.5 µg/mL	N/A	RM12426
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane (DNX)	100.1	±	0.5 µg/mL	N/A	RM12428
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX)	116.7	±	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 (RM) 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. Purity values are taken from approved vendor raw material certificates.

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 (RM) 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 (RM) 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:

Reagent

MNX,TNX,DNX_00079

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: 0006725091

Lot Issue Date: 31-Jan-2023

Expiration Date: 29-Feb-2024

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)	100.3	±	0.5 µg/mL	N/A	RM12426
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane (DNX)	100.1	±	0.5 µg/mL	N/A	RM12428
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX)	116.7	±	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 (RM) 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. Purity values are taken from approved vendor raw material certificates.

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 (RM) 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 (RM) 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:

Reagent

PicricARestek_00114

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31499 **Lot No.:** A0183202

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, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Picric Acid	1,004.0 µg/mL	+/- 5.9635	µg/mL	Gravimetric
	CAS # 88-89-1 (Lot 06130CU)		+/- 55.0021	µg/mL	Unstressed
	Purity 99%		+/- 64.1379	µg/mL	Stressed

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

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

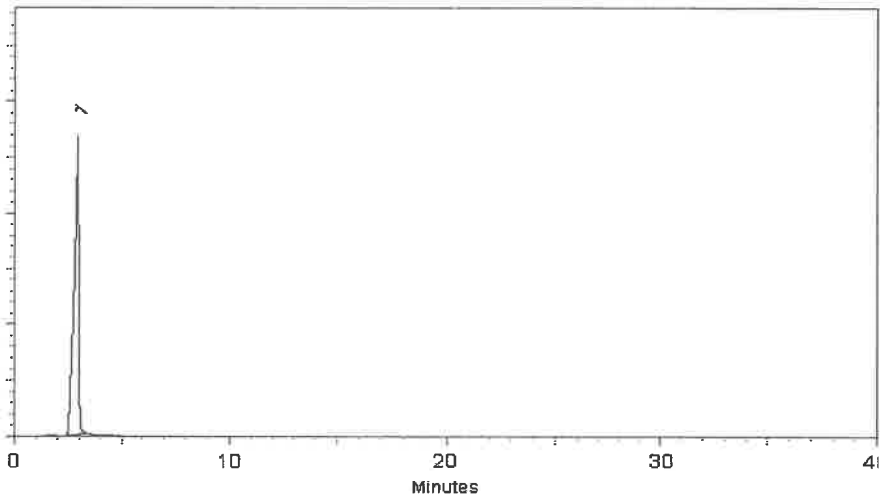
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm



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

Brandon Reish - Mix Technician

Date Mixed: 23-Mar-2022 **Balance:** 1128360905

Amanda Miller - Operations Tech-ARM QC

Date Passed: 28-Mar-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

SFD CAL STK_00010

ThermoFisher SCIENTIFIC

Version	02
Molecular weight	240.18
Quality Test / Release Date	08/28/2022
Molecular Formula	Na2 S . 9 H2 O
CAS No	1313-84-4
Linear Formula	Na2S.9H2O
Flash Point (°C)	

Certificate of Analysis

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Catalog Number	38706	**Quality Test / Release Date**	08/28/2022
Lot Number	A0411500	**Suggested retest date**	08/28/2025
Description	Sodium sulfide nonahydrate,98+%,extra pure		
Country of Origin	INDIA		
Declaration of Origin	synthetic		

BSE/TSE	
Chemical	

Result name	Specifications	Test Value
Appearance (Color)	Colorless to light yellow	off white
Appearance (Form)	Adhering crystals and/or chunks	Adhering crystals and chunks
Titration Iodimetric	32.0 to 38.0 % (Na2S)	32.0 % (Na2S)
Total nitrogen (as N)	=<0.005 %	=<0.005 %
Sulfite (as SO2)	=<2000 ppm	=<1000 ppm
Thiosulphate (S2O3)	=<5000 ppm	=<1000 ppm

C. Wygaerts, QA Manager Issued: 08-29-2022

Acros Organics BV
ENA23, zone1, nr 1350, Janssen Pharmaceuticalaan 3a, B-2440 Geel, Belgium
Tel +32 14/57.52.11 - Fax+32 14/59.34.34 Internet: https://www.thermofisher.com
1 Reagent Lane, Fair Lawn, NJ 07410, USA Fax 201-796-1329

Reagent

TOC ICV Std_00051

RICCA CHEMICAL COMPANY®

1841 Broad Street
Pocomoke City, MD 21851
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

Organic Carbon Standard, 1000 ppm C

Lot Number: 2208C86 **Product Number:** 1847

Manufacture Date: AUG 08, 2022
Expiration Date: JUL 2023

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
Phosphoric Acid	7664-38-2	ACS
Potassium Acid Phthalate	877-24-7	ACS Acidimetric

Test	Specification	Result
Appearance	Colorless liquid	Passed
Carbon (C)	995-1005 ppm	1000 ppm

Specification	Reference
Organic Carbon Stock Solution	APHA (5310 B)
Potassium Hydrogen Phthalate, Stock Solution	EPA (SW-846) (9060)
Potassium Hydrogen Phthalate, Stock Solution, 1000 mg Carbon/liter	EPA (415.1)
Organic Carbon Solution, Standard (1 mL = 1 mg C)	ASTM (D 2579)

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)
1847-16	500 mL amber glass	12 months
1847-32	1 L amber glass	12 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Myrlande Gilles (08/08/2022)
Quality Control

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

RICCA CHEMICAL COMPANY®

Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS)

SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation: Organic Carbon Standard, 1000 ppm C

Product Number: 1847

Other Identifying Product Numbers: 1847-1, 1847-16, 1847-2.5, 1847-32, 1847-4, 1847-5, 1847-8

1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

1.3. Details of the Supplier of the Safety Data Sheet

Company: Ricca Chemical Company
Address: 448 West Fork Drive

Arlington, TX 76012 USA

Telephone: 888-467-4222

1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA)	800-424-9300
CHEMTREC (International)	1+ 703-527-3887

SECTION 2: Hazard(s) Identification

2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

Hazard Class	Category	Hazard Statements	Precautionary Statements:
Hazardous to the Aquatic Environment (Acute)	Category 3	H402	P273, P501

2.2. GHS Label Elements

Pictograms:

Signal Word:

Hazard Statements:

Hazard Number	Hazard Statement
H402	Harmful to aquatic life.

Precautionary Statements:

Precautionary Number	Precautionary Statement
P273	Avoid release to the environment.
P501	Dispose of contents in accordance with local, state, federal and international regulations.

2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

SECTION 3: Composition / Information on Ingredients

3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight	CAS Number	Weight%
Water	H_2O	18.01 g/mol	7732-18-5	99.39
Phosphoric Acid	H_3PO_4	97.99 g/mol	7664-38-2	0.40
Potassium Acid Phthalate	$HOCOC_6H_4COOK$	204.22 g/mol	877-24-7	0.21

SECTION 4: First-Aid Measures

4.1. General First Aid Information

Eye Contact: May cause irritation, redness, pain, and tearing.

Inhalation: Not expected to require first aid. If necessary, remove to fresh air.

Skin Contact: May cause slight irritation.

Ingestion: Dilute with water or milk. Call a physician if necessary.

4.2. Most Important Symptoms and Effects, Acute and Delayed

Does not present any significant health hazards. Wash areas of contact with water. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause slight irritation.

4.3. Medical Attention or Special Treatment Needed

Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Dilute with water or milk. Call a physician if necessary.

Safety Data Sheet

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

Use any means suitable for extinguishing surrounding fire.

5.2. Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

5.3. Special Protective Equipment for Firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear appropriate PPE for the size and nature of the spill. As a general rule, wear safety glasses and gloves.

6.2. Cleanup and Containment Methods and Materials

Collect liquid and dilute with water. Neutralize with dilute base solutions. Resulting solution may be flushed to the sewer with excess water. For larger spills, absorb with suitable material and dispose of in accordance with local regulations.

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling and Storage Conditions

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Keep tightly capped. Store in the refrigerator.

SECTION 8: Exposure Controls / Personal Protection

8.1 Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Phosphoric Acid (7664-38-2)	TWA	USA	1 mg/m³ TWA	U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)
Phosphoric Acid (7664-38-2)	TLV-STEL	USA	3 mg/m³ STEL	ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)
Phosphoric Acid (7664-38-2)	TLV-TWA	USA	1 mg/m³ TWA	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

8.2. Exposure Controls

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

Respiratory Protection: Normal room ventilation is adequate.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

8.3. Personal Protective Equipment

Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

SECTION 9: Physical and Chemical Properties

9.1. Basic Physical and Chemical Properties

Appearance: Colorless liquid

Physical State: Liquid

Odor: Data not available.

Odor Threshold: Data not available.

pH: < 2

Melting/Freezing Point: 0.0°C

Initial Boiling Point/Range: 100°C - 100°C

Flash Point: Data not available.

Evaporation Rate: Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Data not available.

Vapor Density: Data not available.

Relative Density: 1.00

Solubility: Miscible

Partition Coefficient: Data not available.

Auto-Ignition Temperature: Data not available.

Decomposition Temperature: Data not available.

Viscosity: Data not available.

Explosive Properties: Data not available.

Oxidizing Properties: Data not available.

Safety Data Sheet

SECTION 10: Stability and Reactivity

10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

10.2. Possibility of Hazardous Reactions

Data not available.

10.3. Conditions to Avoid and Incompatible Materials

Nitric Acid.

10.4. Hazardous Decomposition Products

Will not occur.

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity - Oral Exposure:

Not applicable.

Acute Toxicity - Dermal Exposure:

Not applicable.

Acute Toxicity - Inhalation Exposure:

Not applicable.

Acute Toxicity - Other Information:

LD50, Oral, Rat: >3200 mg/kg (Potassium Acid Phthalate), details of toxic effects not reported other than lethal dose value. LD50, Oral, Rat: (Phosphoric Acid) 1530 mg/kg, behavioral, kidney, bladder, hair effects noted. LD50, Dermal, Rat: 2740 mg/kg (Phosphoric Acid), behavioral effects noted.

Skin Corrosion and Irritation:

Not applicable.

Serious Eye Damage and Irritation:

Not applicable.

Respiratory Sensitization:

Not applicable.

Skin Sensitization:

Not applicable.

Germ Cell Mutagenicity:

Not applicable.

Carcinogenicity:

Not applicable.

Reproductive Toxicity:

Not applicable.

Specific Target Organ Toxicity from Single Exposure:

Not applicable.

Specific Target Organ Toxicity from Repeated Exposure:

Not applicable.

Aspiration Hazard:

Not applicable.

Additional Toxicology Information:

Data not available.

SECTION 12: Ecological Information

12.1. Ecotoxicity

Harmful to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations.

12.2. Persistence and Degradability

Data not available.

12.3. Bioaccumulative Potential

Data not available.

12.4. Mobility in Soil

Data not available.

12.5. Other Adverse Ecological Effects

Data not available.

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

Data not available.

Safety Data Sheet

SECTION 14: Transportation Information

14.1. Transportation by Land-Department of Transportation (DOT, United States of America)

Not regulated according to DOT Regulations.

14.2. Transportation by Air - International Air Transport Association (IATA)

Not regulated according to IATA Dangerous Goods Regulations.

14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG Regulations.

Safety Data Sheet

SECTION 15: Regulatory Information

15.1. Occupational Safety and Health Administration (OSHA) Hazards

Not listed.

15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

Not listed.

15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

Phosphoric Acid (CAS # 7664-38-2): 5000 lb final RQ; 2270 kg final RQ

15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

Not listed.

15.5. Massachusetts Right-to-Know Substance List

Phosphoric Acid (CAS # 7664-38-2): Present

15.6. Pennsylvania Right-to-Know Hazardous Substances

Phosphoric Acid (CAS # 7664-38-2): Environmental hazard
Phosphoric Acid (CAS # 7664-38-2): Present
Water (CAS # 7732-18-5): Present

15.7. New Jersey Worker and Community Right-to-Know Components

Phosphoric Acid (CAS # 7664-38-2): corrosive
Phosphoric Acid (CAS # 7664-38-2): sn 1516

15.8. California Proposition 65

Not listed.

15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Phosphoric Acid (CAS # 7664-38-2): Present (DSL)
Water (CAS # 7732-18-5): Present (DSL)
Potassium Acid Phthalate (CAS # 877-24-7): Present (DSL)

15.10. United States of America Toxic Substances Control Act (TSCA) List

All components of this solution are listed as active on the TSCA Inventory or are mixtures (hydrates) of active items listed on the TSCA Inventory.

Phosphoric Acid (CAS # 7664-38-2): Present
Water (CAS # 7732-18-5): Present
Potassium Acid Phthalate (CAS # 877-24-7): Present

15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Phosphoric Acid (CAS # 7664-38-2): 231-633-2
Water (CAS # 7732-18-5): 231-791-2
Water (CAS # 7732-18-5): 232-148-9
Potassium Acid Phthalate (CAS # 877-24-7): 212-889-4

SECTION 16: Other Information

16.1. Full Text of Hazard Statements and Precautionary Statements

Harmful to aquatic life.

Avoid release to the environment.

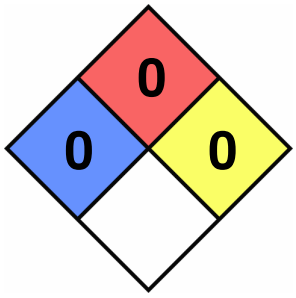
Dispose of contents in accordance with local, state, federal and international regulations.

16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.
Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.
Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.
Biohazardous Infectious Materials Hazard Class: Not Applicable.

16.3. National Fire Protection Association (NFPA) Rating

Health: 0
Flammability: 0
Reactivity: 0
Special Hazard:



16.4. Document Revision

Last Revision Date: 2023-02-14

DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.

Reagent

TOC LCS Std_00057

Agilent

Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Total Organic Carbon (TOC) Standard

Product Number: IOC-106

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

Lot Number: 0006719669

Lot Issue Date: 28-Dec-2022

Expiration Date: 31-Jan-2025

	CERTIFIED VALUES				
Component Name	Concentration		Expanded Uncertainty	CAS#	Analyte Lot
potassium hydrogen phthalate (KHP) (as TOC)	1001	±	5 mg/L	000877-24-7	RM19275

Matrix: water (low TOC, < 50 ppb)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system. The analyte concentration(s) were prepared and verified by an ISO 17034 / ISO 17025 accredited laboratory and compared to calibration standards independently prepared using NIST SRM(s) when available. The certified value and uncertainty value at the 95% confidence level for each analyte is determined gravimetrically.

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.

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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

ISO 17034

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-040.1

ISO 17025

8330B_DOD5

Nitroaromatics and Nitramines (HPLC)

FORM II
HPLC/IC SURROGATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-176591-1

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 #
WBGmw-014-230401-GW	280-176591-1	107 M	
WBGmw-006-230401-GW	280-176591-2	101	
WBGmw-006-230401-GW	280-176591-2		93
WBGmw-021-230401-GW	280-176591-3	102 M	
WBGmw-009-230401-GW	280-176591-4	102 M	
WBGmw-009-230401-GW	280-176591-4		89
WBGmw-020-230401-GW	280-176591-5	102 M	
WBGmw-020-230401-GW	280-176591-5		96
WBGmw-018-230401-GW	280-176591-6	113 M	
WBGmw-018-230401-GW	280-176591-6		118
WBGMW-RBmw-018-2023	280-176591-7	100 M	
WBGMW-RBmw-018-2023	280-176591-7		94
WBGmw-016-230401-GW	280-176591-8	99 M	
WBGmw-017-230401-GW	280-176591-9	104	
	MB 280-612937/1-A	106 M	
	LCS 280-612937/2-A	104	
	LCS 280-612937/4-A	102	
	LCSD 280-612937/3-A	102	
	LCSD 280-612937/5-A	102	

	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.: 280-176591-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 05180012.D

Lab ID: LCS 280-612937/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.00	2.05	103	73-125	
1,3-Dinitrobenzene	2.00	1.94	97	78-120	
2,4,6-Trinitrotoluene	2.00	1.86	93	71-123	
2,4-Dinitrotoluene	2.00	1.84	92	78-120	
2,6-Dinitrotoluene	2.00	1.85	92	77-127	
2-Amino-4,6-dinitrotoluene	2.00	1.82	91	79-120	
2-Nitrotoluene	2.00	1.51	76	70-127	
3,5-Dinitroaniline	2.00	1.77	88	71-117	
3-Nitrotoluene	2.00	1.45	72	73-125	Q
4-Amino-2,6-dinitrotoluene	2.00	1.76	88	76-125	
4-Nitrotoluene	2.00	1.50	75	71-127	
DNX	2.00	2.00	100	66-119	M
HMX	2.00	1.81	90	65-135	M
MNX	2.33	2.41	103	57-132	M
Nitrobenzene	2.00	1.71	86	65-134	
Nitroglycerin	20.0	19.9	99	74-127	
PETN	20.0	21.0	105	73-127	
RDX	2.00	1.92	96	68-130	M
Tetryl	2.00	2.04	102	64-128	
TNX	2.01	2.02	101	50-150	M

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.: 280-176591-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 05180014.D

Lab ID: LCS 280-612937/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
2,4-diamino-6-nitrotoluene	2.00	1.41	71	68-122	M
2,6-diamino-4-nitrotoluene	2.00	1.56	78	72-122	M

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.: 280-176591-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 05180013.D

Lab ID: LCSD 280-612937/3-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	0	20	73-125	
1,3-Dinitrobenzene	2.00	1.94	97	0	20	78-120	
2,4,6-Trinitrotoluene	2.00	1.87	93	0	20	71-123	
2,4-Dinitrotoluene	2.00	1.83	92	0	20	78-120	
2,6-Dinitrotoluene	2.00	1.91	95	3	20	77-127	
2-Amino-4,6-dinitrotoluene	2.00	1.79	90	1	20	79-120	
2-Nitrotoluene	2.00	1.54	77	2	20	70-127	
3,5-Dinitroaniline	2.00	1.74	87	1	20	71-117	
3-Nitrotoluene	2.00	1.46	73	1	20	73-125	
4-Amino-2,6-dinitrotoluene	2.00	1.81	90	2	20	76-125	
4-Nitrotoluene	2.00	1.50	75	0	20	71-127	
DNX	2.00	1.98	99	1	20	66-119	M
HMX	2.00	1.88	94	4	20	65-135	M
MNX	2.33	2.42	103	0	20	57-132	M
Nitrobenzene	2.00	1.72	86	1	20	65-134	
Nitroglycerin	20.0	19.9	100	0	20	74-127	
PETN	20.0	20.9	104	1	20	73-127	
RDX	2.00	1.88	94	2	20	68-130	M
Tetryl	2.00	2.07	104	2	20	64-128	
TNX	2.01	2.06	103	2	20	50-150	M

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.: 280-176591-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 05180015.D

Lab ID: LCSD 280-612937/5-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2,4-diamino-6-nitrotoluene	2.00	1.54	77	9	20	68-122	M
2,6-diamino-4-nitrotoluene	2.00	1.67	83	6	20	72-122	M

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.: 280-176591-1

SDG No.:

Lab Sample ID: MB 280-612937/1-A

Matrix: Water Date Extracted: 05/18/2023 13:20

Lab File ID:(1) 05180011.D Lab File ID:(2)

Date Analyzed:(1) 05/18/2023 22:09 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 280-612937/2-A	05/18/2023 22:32	
	LCSD 280-612937/3-A	05/18/2023 22:55	
	LCS 280-612937/4-A	05/18/2023 23:18	
	LCSD 280-612937/5-A	05/18/2023 23:41	
WBGmw-014-230401-GW	280-176591-1	05/19/2023 03:07	
WBGmw-006-230401-GW	280-176591-2	05/19/2023 03:30	05/19/2023 21:23
WBGmw-021-230401-GW	280-176591-3	05/19/2023 03:53	
WBGmw-009-230401-GW	280-176591-4	05/19/2023 04:16	05/19/2023 22:33
WBGmw-020-230401-GW	280-176591-5	05/19/2023 04:39	05/19/2023 23:08
WBGmw-018-230401-GW	280-176591-6	05/19/2023 05:02	05/20/2023 00:18
WBGMW-RBmw-018-2023	280-176591-7	05/19/2023 05:25	05/20/2023 00:52
WBGmw-016-230401-GW	280-176591-8	05/19/2023 05:48	
WBGmw-017-230401-GW	280-176591-9	05/19/2023 06:11	

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Client Sample ID: WBGmw-006-230401-GW Lab Sample ID: 280-176591-2

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_X5

Date Analyzed (1): 05/19/2023 03:30 Date Analyzed (2): 05/19/2023 21:23

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
HMX	1		6.55	6.40	6.70	3.0		8.7
	2		6.73	6.56	6.86	3.3		
MNX	1		7.19	7.03	7.33	0.43		6.3
	2		7.59	7.42	7.72	0.40		
RDX	1		7.57	7.41	7.71	7.8		1.1
	2		8.98	8.80	9.10	7.7		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Client Sample ID: WBGmw-009-230401-GW Lab Sample ID: 280-176591-4

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_X5

Date Analyzed (1): 05/19/2023 04:16 Date Analyzed (2): 05/19/2023 22:33

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
HMX	1		6.55	6.40	6.70	0.73		3.1
	2		6.72	6.56	6.86	0.75		
RDX	1		7.57	7.41	7.71	1.8		0.3
	2		8.97	8.80	9.10	1.8		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Client Sample ID: WBGmw-020-230401-GW Lab Sample ID: 280-176591-5

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_X5

Date Analyzed (1): 05/19/2023 04:39 Date Analyzed (2): 05/19/2023 23:08

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
RDX	1		7.59	7.41	7.71	0.59		116.4
	2		8.98	8.80	9.10	0.15		
2-Nitrotoluene	1		12.48	12.31	12.61	0.21		166.2
	2		15.66	15.46	15.76	2.2		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Client Sample ID: WBGmw-018-230401-GW Lab Sample ID: 280-176591-6

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_X5

Date Analyzed (1): 05/19/2023 05:02 Date Analyzed (2): 05/20/2023 00:18

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
RDX	1		7.56	7.41	7.71	0.12		177.3
	2		8.92	8.80	9.10	2.0		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Client Sample ID: WBGMW-RBmw-018-2023 Lab Sample ID: 280-176591-7

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_X5

Date Analyzed (1): 05/19/2023 05:25 Date Analyzed (2): 05/20/2023 00:52

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
RDX	1		7.56	7.41	7.71	0.13		0.1
	2		8.95	8.80	9.10	0.13		

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-176591-1

SDG No.:

Client Sample ID: WBGmw-014-230401-GW | Lab Sample ID: 280-176591-1

Matrix: Water | Lab File ID: 05180024.D

Analysis Method: 8330B | Date Collected: 05/16/2023 13:13

Extraction Method: 3535 | Date Extracted: 05/18/2023 13:20

Sample wt/vol: 493.8(mL) | Date Analyzed: 05/19/2023 03:07

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.: 613045 | 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	0.085
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	0.046
6629-29-4	2,4-diamino-6-nitrotoluene	0.91	U	1.0	0.91	0.44
121-14-2	2,4-Dinitrotoluene	0.081	U	0.10	0.081	0.028
59229-75-3	2,6-diamino-4-nitrotoluene	0.91	U M	1.0	0.91	0.22
606-20-2	2,6-Dinitrotoluene	0.081	U	0.10	0.081	0.041
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	0.087
618-87-1	3,5-Dinitroaniline	0.30	U	0.41	0.30	0.13
99-08-1	3-Nitrotoluene	0.35	U Q	0.41	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	0.41	U	0.42	0.41	0.10
80251-29-2	DNX	0.25	U	0.51	0.25	0.098
2691-41-0	HMX	0.20	U	0.21	0.20	0.089
5755-27-1	MNX	0.29	U	0.51	0.29	0.094
98-95-3	Nitrobenzene	0.20	U	0.21	0.20	0.092
55-63-0	Nitroglycerin	2.0	U	2.1	2.0	0.93
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
13980-04-6	TNX	0.25	U	0.51	0.25	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	107	M	83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180024.D
Lims ID: 280-176591-B-1-A
Client ID: WBGmw-014-230401-GW
Sample Type: Client
Inject. Date: 19-May-2023 03:07:37 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-176591-B-1-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:58 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 11:40:03

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 TNX	1		6.426			ND	
2 2,6-diamino-4-nitrotoluene	1		6.431			ND	U
4 HMX	1		6.546			ND	
5 2,4-diamino-6-nitrotoluene	1		6.618			ND	
6 DNX	1		6.753			ND	
7 MNX	1		7.180			ND	
8 RDX	1		7.560			ND	
$ 10 1,2-Dinitrobenzene	1	8.525	8.513	0.012	26988	0.2137	M
11 1,3,5-Trinitrobenzene	1		8.640			ND	
12 1,3-Dinitrobenzene	1		9.253			ND	
13 Nitrobenzene	1		9.626			ND	
14 3,5-Dinitroaniline	1		9.859			ND	
15 Tetryl	1		9.986			ND	
16 Nitroglycerin	2		10.439			ND	
17 2,4,6-Trinitrotoluene	1		10.873			ND	
18 4-Amino-2,6-dinitrotoluene	1		11.066			ND	
19 2-Amino-4,6-dinitrotoluene	1		11.319			ND	
20 2,6-Dinitrotoluene	1		11.473			ND	
21 2,4-Dinitrotoluene	1		11.639			ND	
22 o-Nitrotoluene	1		12.459			ND	7
23 p-Nitrotoluene	1		12.873			ND	
24 m-Nitrotoluene	1		13.446			ND	
25 PETN	2		14.599			ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

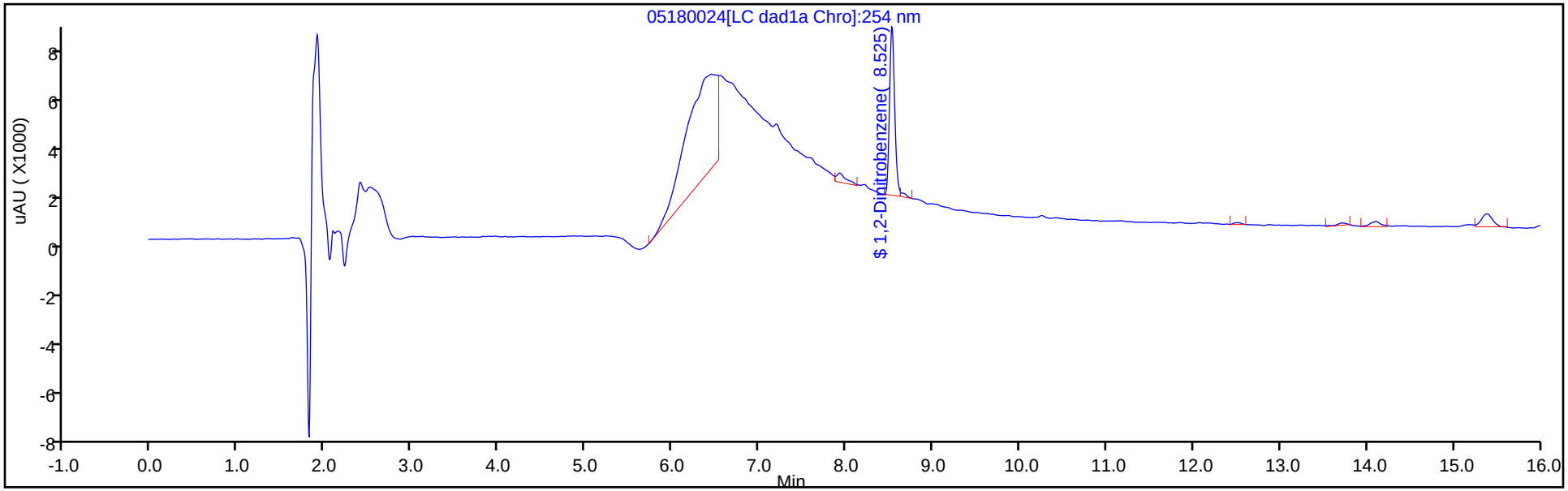
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 19-May-2023 12:21:59 Chrom Revision: 2.3 16-May-2023 16:37:30

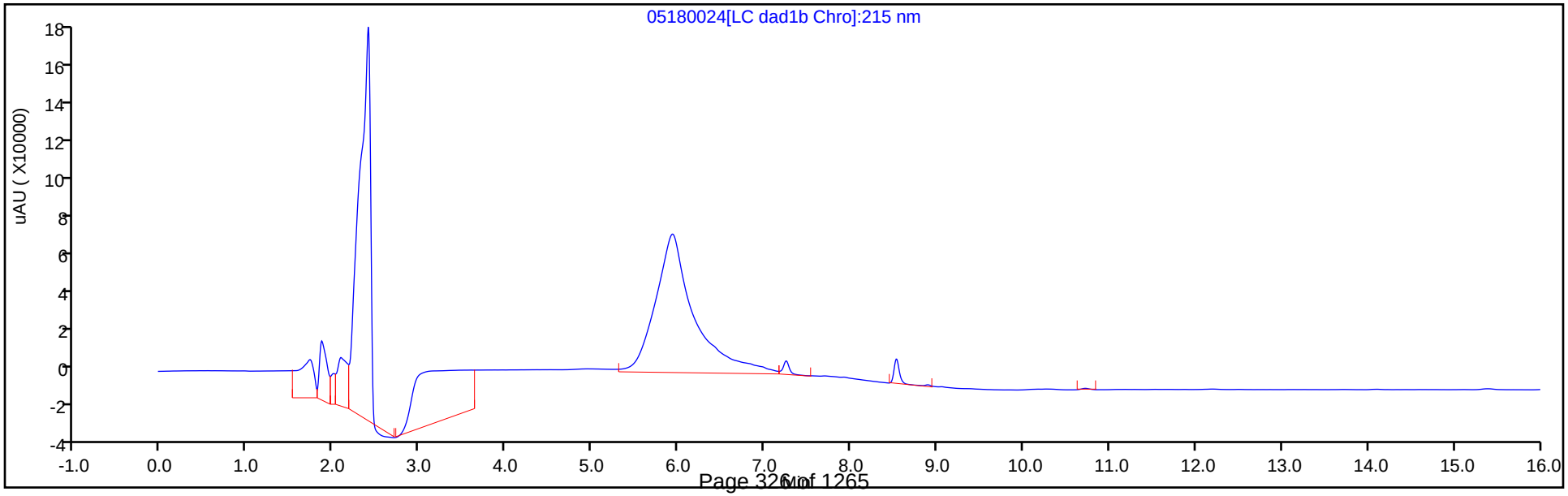
Eurofins Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180024.d				
Injection Date:	19-May-2023 03:07:37	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	280-176591-B-1-A	Lab Sample ID:	280-176591-1	Worklist Smp#:	24
Client ID:	WBGmw-014-230401-GW				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
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\20230518-121611.b\05180024.D
Lims ID: 280-176591-B-1-A
Client ID: WBGmw-014-230401-GW
Sample Type: Client
Inject. Date: 19-May-2023 03:07:37 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-176591-B-1-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:58 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 11:40:03

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2137	106.83

Manual Integration/User Assign Peak Report

Eurofins Denver

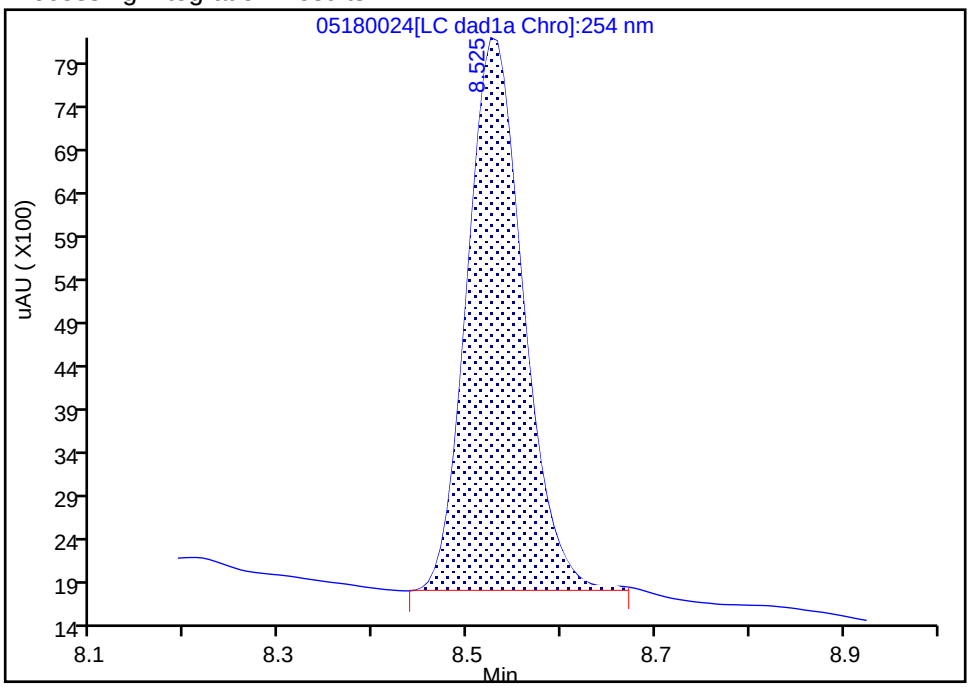
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180024.d				
Injection Date:	19-May-2023 03:07:37	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-B-1-A	Lab Sample ID:	280-176591-1		
Client ID:	WBGmw-014-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	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

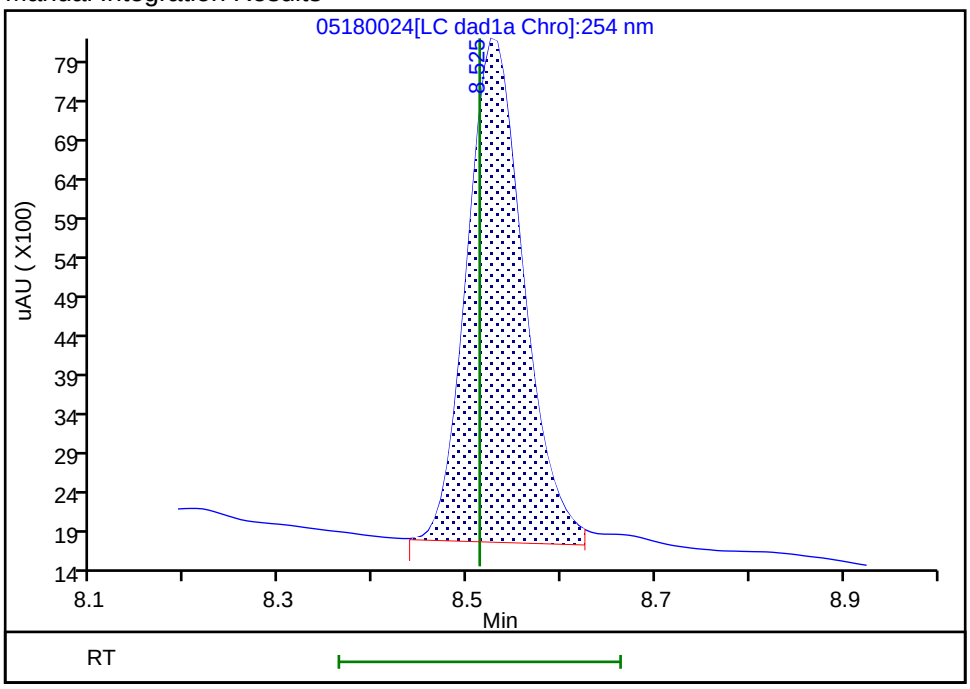
Processing Integration Results

RT: 8.52
Area: 26542
Amount: 0.210136
Amount Units: ug/mL



Manual Integration Results

RT: 8.52
Area: 26988
Amount: 0.213667
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:40:02 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

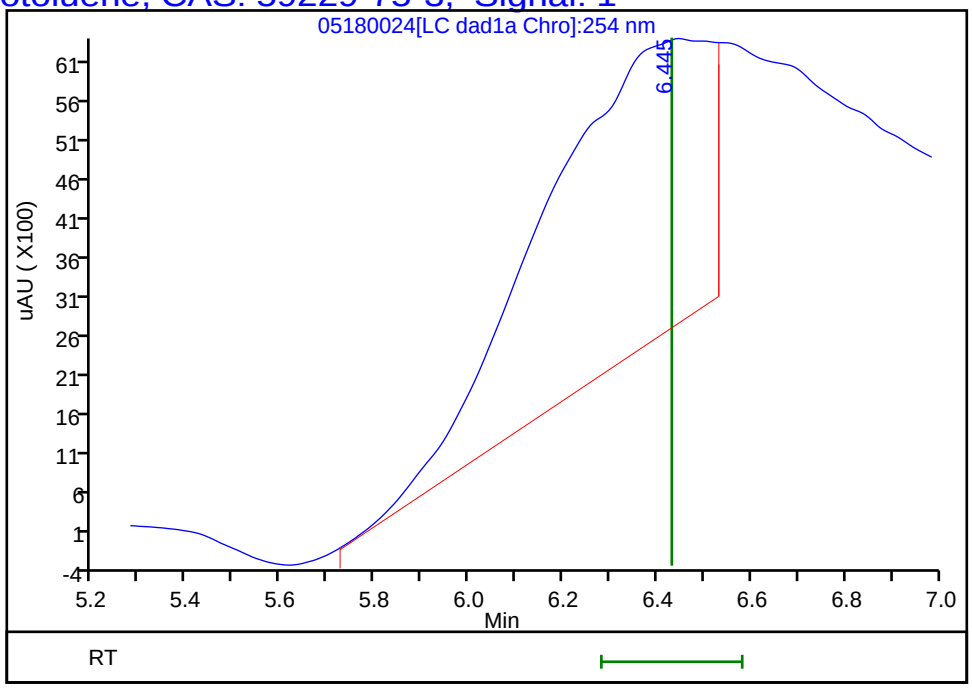
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180024.d				
Injection Date:	19-May-2023 03:07:37	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-B-1-A	Lab Sample ID:	280-176591-1		
Client ID:	WBGmw-014-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	24	Worklist Smp#:	24
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		

2 2,6-diamino-4-nitrotoluene, CAS: 59229-75-3, Signal: 1

RT: 6.44
Response: 96156
Amount: 0.414866



Reviewer: LV5D, 19-May-2023 11:40:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-176591-1

SDG No.:

Client Sample ID: WBGmw-006-230401-GW | Lab Sample ID: 280-176591-2

Matrix: Water | Lab File ID: 05180025.D

Analysis Method: 8330B | Date Collected: 05/16/2023 13:56

Extraction Method: 3535 | Date Extracted: 05/18/2023 13:20

Sample wt/vol: 488.1(mL) | Date Analyzed: 05/19/2023 03:30

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.: 613045 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.20	U	0.22	0.20	0.086
118-96-7	2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.046
6629-29-4	2,4-diamino-6-nitrotoluene	0.92	U	1.0	0.92	0.44
121-14-2	2,4-Dinitrotoluene	0.082	U	0.10	0.082	0.028
59229-75-3	2,6-diamino-4-nitrotoluene	0.92	U	1.0	0.92	0.23
606-20-2	2,6-Dinitrotoluene	0.082	U	0.10	0.082	0.041
35572-78-2	2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.052
88-72-2	2-Nitrotoluene	0.20	U M	0.22	0.20	0.088
618-87-1	3,5-Dinitroaniline	0.31	U	0.41	0.31	0.13
99-08-1	3-Nitrotoluene	0.36	U Q	0.41	0.36	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.059
99-99-0	4-Nitrotoluene	0.41	U	0.42	0.41	0.10
80251-29-2	DNX	0.26	U	0.51	0.26	0.10
2691-41-0	HMX	3.0	M	0.22	0.20	0.090
5755-27-1	MNX	0.43	J M	0.51	0.30	0.095
98-95-3	Nitrobenzene	0.20	U	0.22	0.20	0.093
55-63-0	Nitroglycerin	2.0	U	2.2	2.0	0.94
78-11-5	PETN	1.0	U	1.1	1.0	0.46
121-82-4	RDX	7.8	M	0.22	0.20	0.053
479-45-8	Tetryl	0.10	U	0.11	0.10	0.033
13980-04-6	TNX	0.26	U M	0.51	0.26	0.081

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	101		83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180025.D
Lims ID: 280-176591-B-2-A
Client ID: WBGmw-006-230401-GW
Sample Type: Client
Inject. Date: 19-May-2023 03:30:31 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-176591-B-2-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:58 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 11:40:35

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 TNX	1		6.426			ND	U
	2 2,6-diamino-4-nitrotoluene	1		6.431			ND	
	4 HMX	1	6.553	6.546	0.007	27650	0.2956	M
	5 2,4-diamino-6-nitrotoluene	1		6.618			ND	
	6 DNX	1		6.753			ND	
	7 MNX	1	7.187	7.180	0.007	5496	0.0419	M
	8 RDX	1	7.573	7.560	0.013	80992	0.7613	M
$	10 1,2-Dinitrobenzene	1	8.520	8.513	0.007	25619	0.2028	
	11 1,3,5-Trinitrobenzene	1		8.640			ND	
	12 1,3-Dinitrobenzene	1	9.246	9.253	-0.007	4604	0.0156	M
	13 Nitrobenzene	1		9.626			ND	
	14 3,5-Dinitroaniline	1		9.859			ND	
	15 Tetryl	1		9.986			ND	
	16 Nitroglycerin	2		10.439			ND	
	17 2,4,6-Trinitrotoluene	1		10.873			ND	
	18 4-Amino-2,6-dinitrotoluene	1		11.066			ND	
	19 2-Amino-4,6-dinitrotoluene	1		11.319			ND	
	20 2,6-Dinitrotoluene	1		11.473			ND	
	21 2,4-Dinitrotoluene	1		11.639			ND	
	22 o-Nitrotoluene	1	12.480	12.459	0.021	559	0.004371	7M
	23 p-Nitrotoluene	1		12.873			ND	
	24 m-Nitrotoluene	1		13.446			ND	
	25 PETN	2		14.599			ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
M - Manually Integrated
U - Marked Undetected

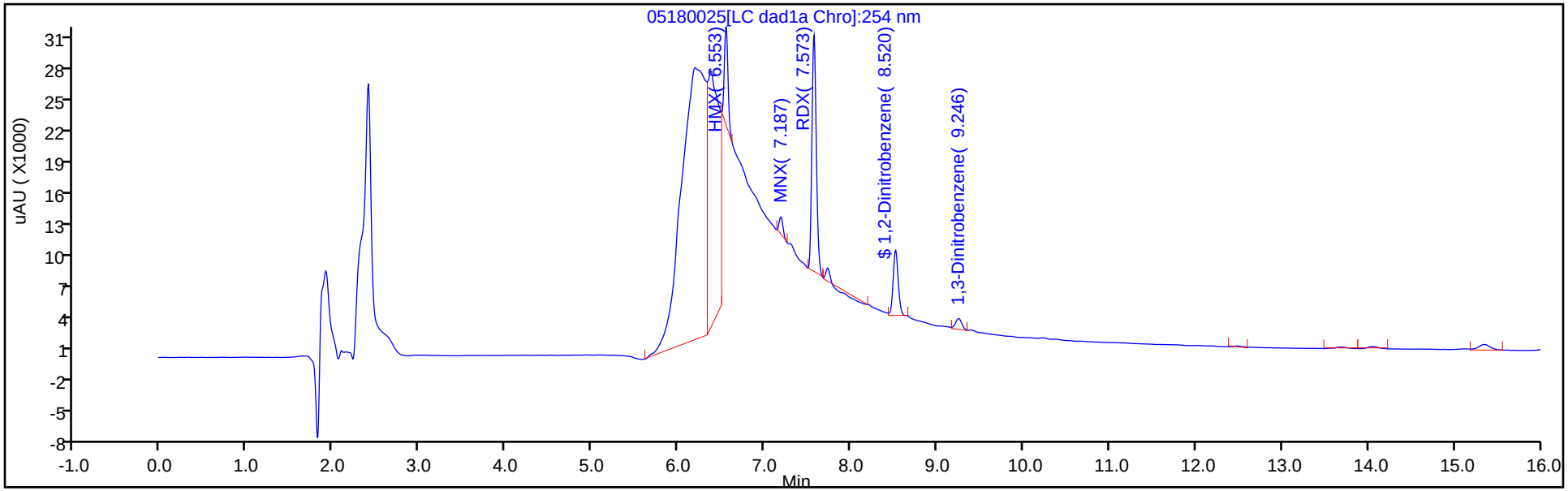
Report Date: 19-May-2023 12:21:59 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

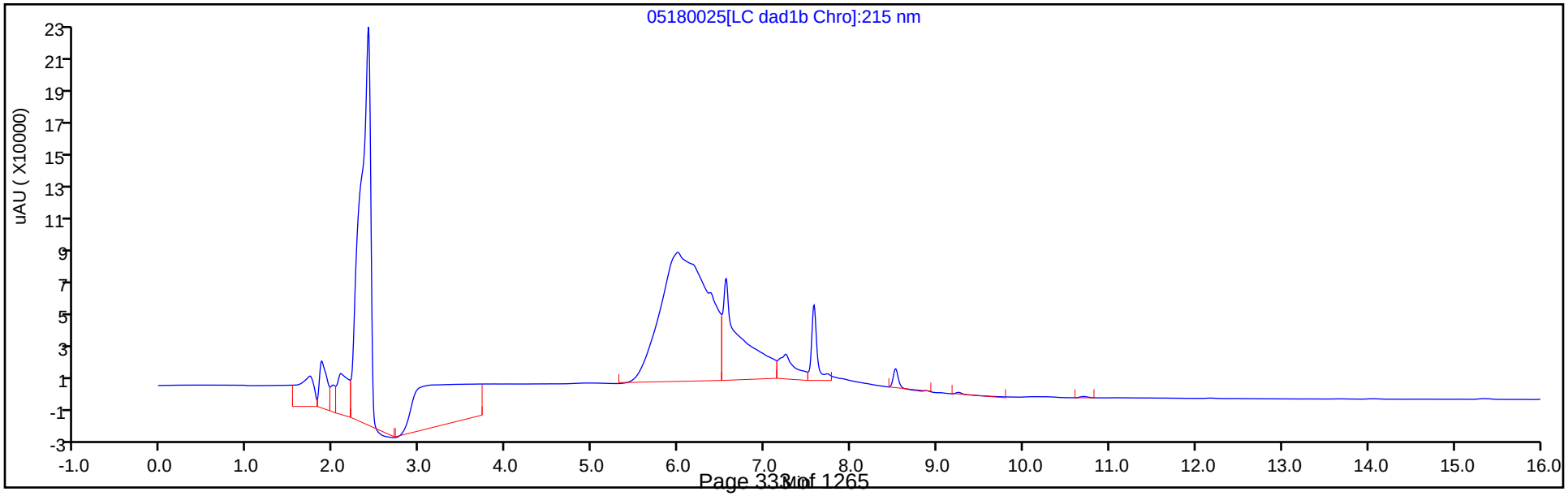
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180025.d

Injection Date:	19-May-2023 03:30:31	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	280-176591-B-2-A	Lab Sample ID:	280-176591-2	Worklist Smp#:	25
Client ID:	WBGmw-006-230401-GW				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
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



Report Date: 19-May-2023 12:21:59 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180025.D
Lims ID: 280-176591-B-2-A
Client ID: WBGmw-006-230401-GW
Sample Type: Client
Inject. Date: 19-May-2023 03:30:31 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-176591-B-2-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:58 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 11:40:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2028	101.41

Eurofins Denver

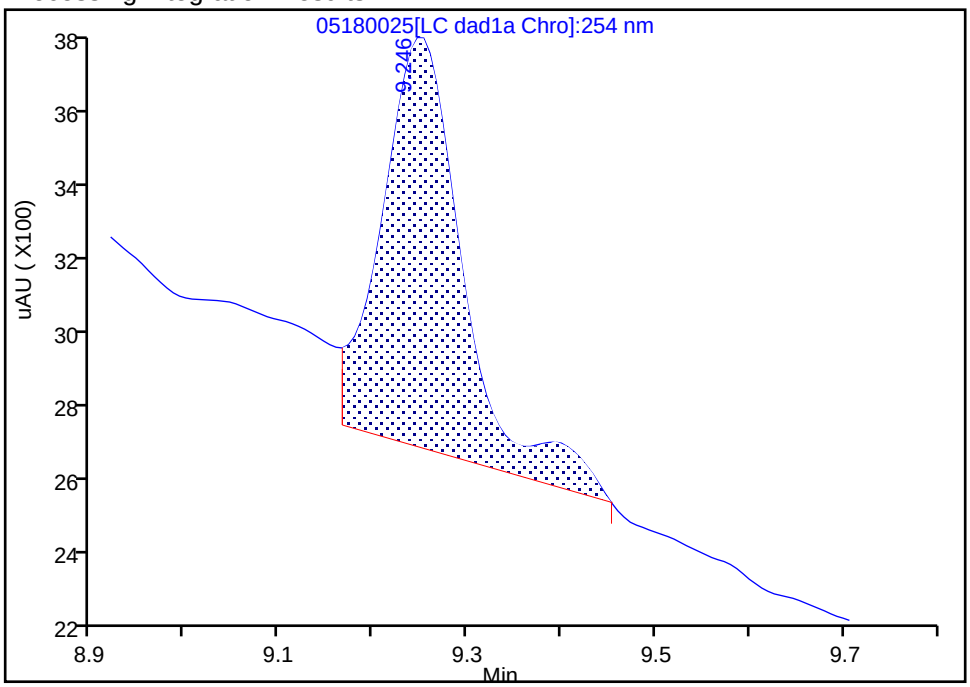
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180025.d				
Injection Date:	19-May-2023 03:30:31	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-B-2-A	Lab Sample ID:	280-176591-2		
Client ID:	WBGmw-006-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	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

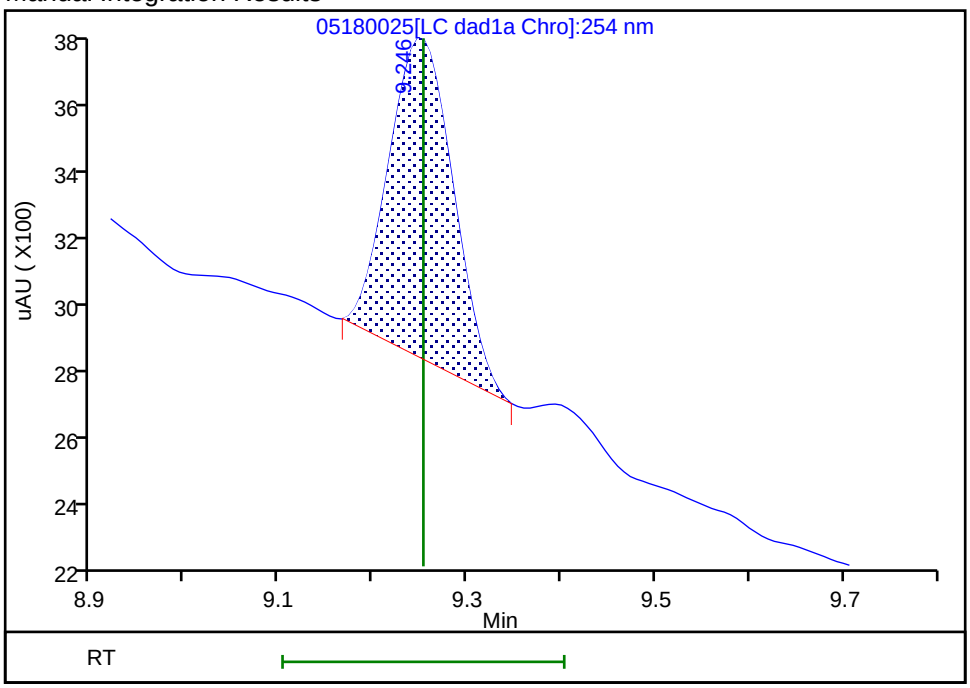
Processing Integration Results

RT: 9.25
Area: 6784
Amount: 0.023044
Amount Units: ug/mL



Manual Integration Results

RT: 9.25
Area: 4604
Amount: 0.015639
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:40:33 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

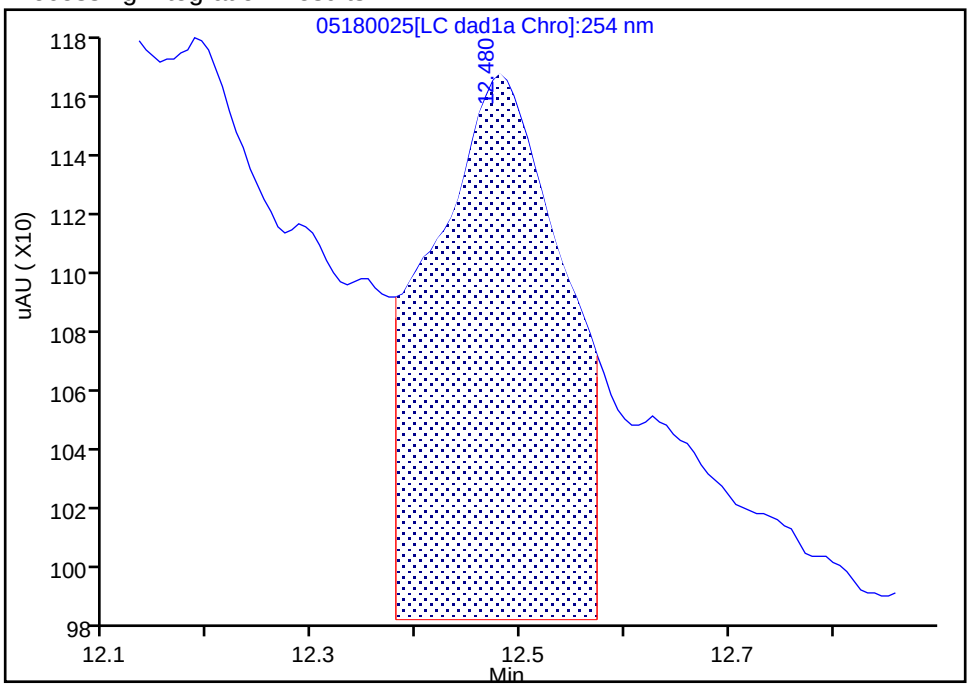
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180025.d				
Injection Date:	19-May-2023 03:30:31	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-B-2-A	Lab Sample ID:	280-176591-2		
Client ID:	WBGmw-006-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	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

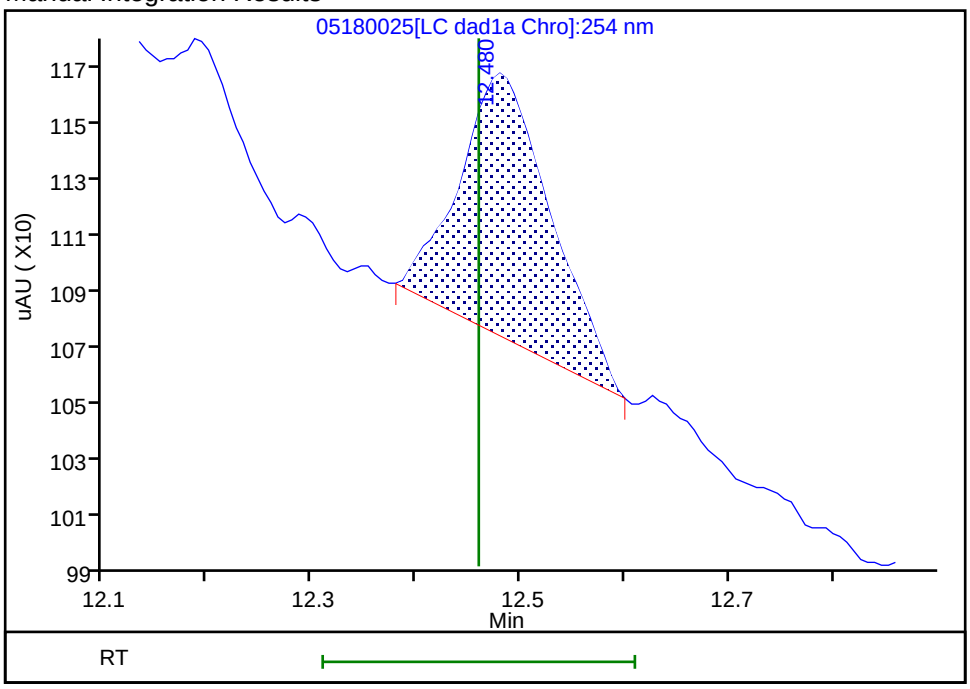
Processing Integration Results

RT: 12.48
Area: 1574
Amount: 0.012307
Amount Units: ug/mL



Manual Integration Results

RT: 12.48
Area: 559
Amount: 0.004371
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:40:29 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

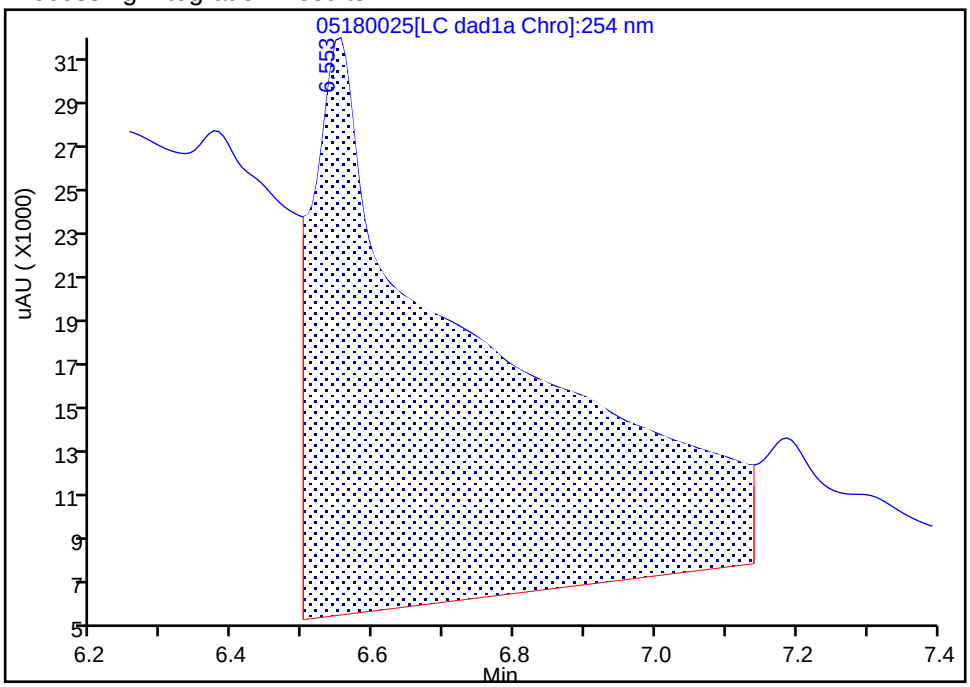
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180025.d				
Injection Date:	19-May-2023 03:30:31	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-B-2-A	Lab Sample ID:	280-176591-2		
Client ID:	WBGmw-006-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	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

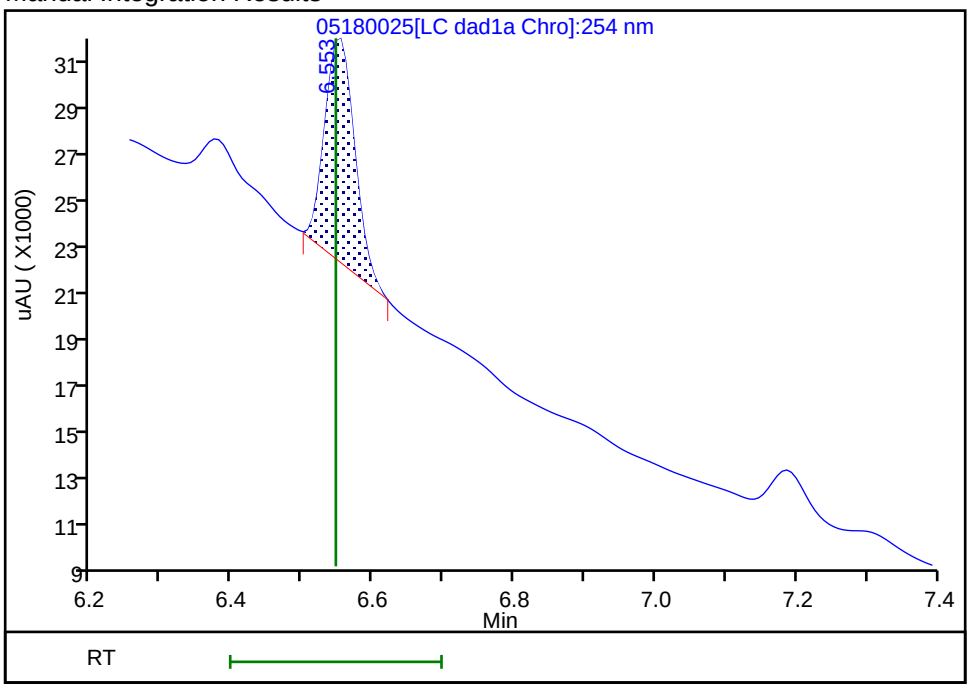
Processing Integration Results

RT: 6.55
Area: 432298
Amount: 4.622116
Amount Units: ug/mL



Manual Integration Results

RT: 6.55
Area: 27650
Amount: 0.295633
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:40:13 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

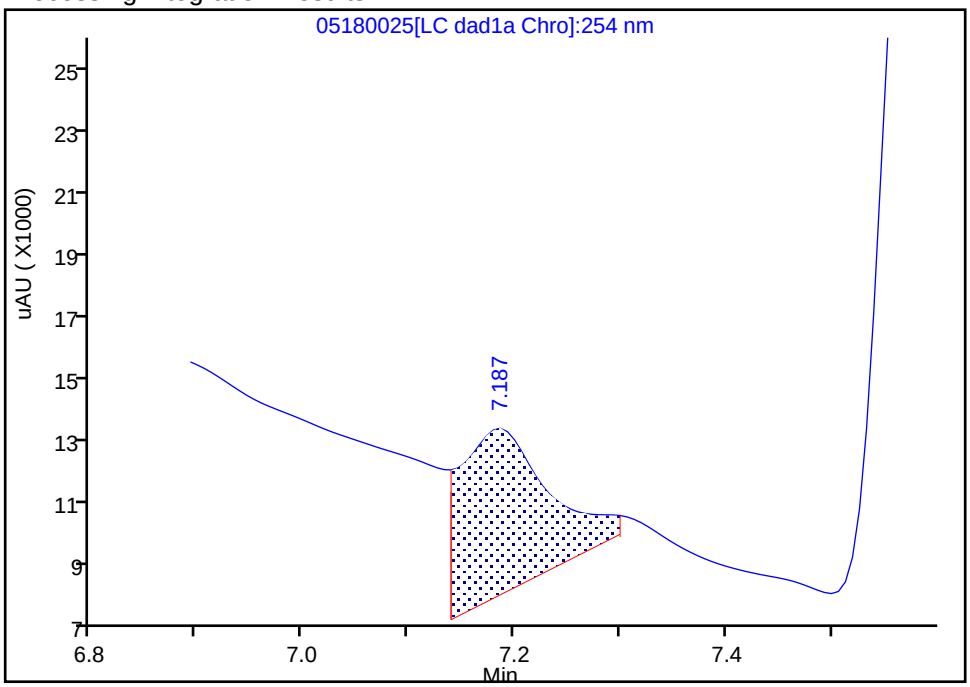
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180025.d				
Injection Date:	19-May-2023 03:30:31	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-B-2-A	Lab Sample ID:	280-176591-2		
Client ID:	WBGmw-006-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	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		

7 MNX, CAS: 5755-27-1

Signal: 1

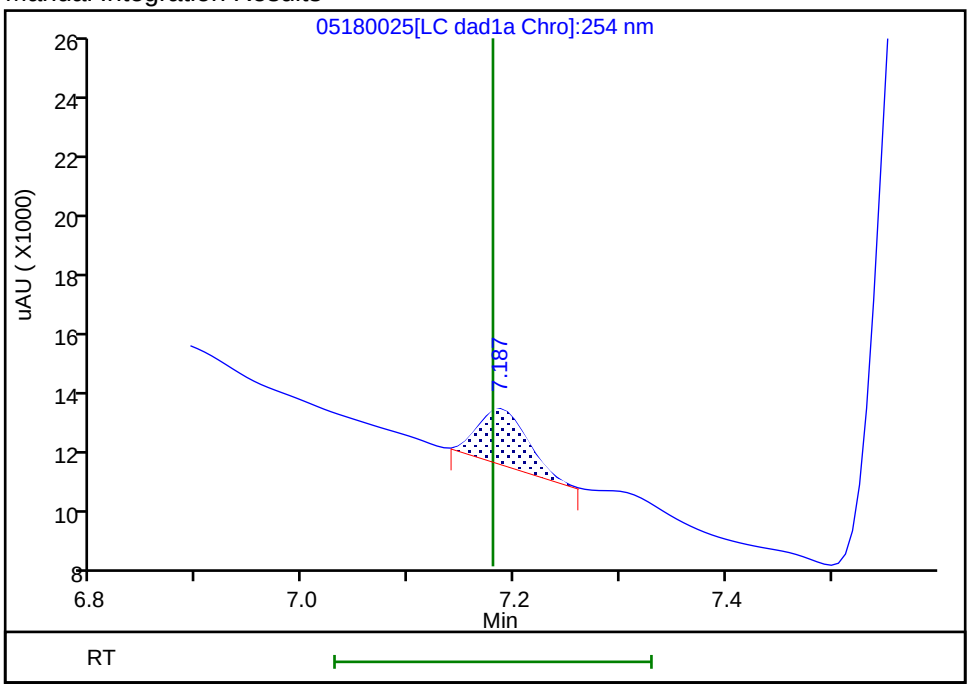
Processing Integration Results

RT: 7.19
Area: 28307
Amount: 0.215801
Amount Units: ug/mL



Manual Integration Results

RT: 7.19
Area: 5496
Amount: 0.041899
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:40:17 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

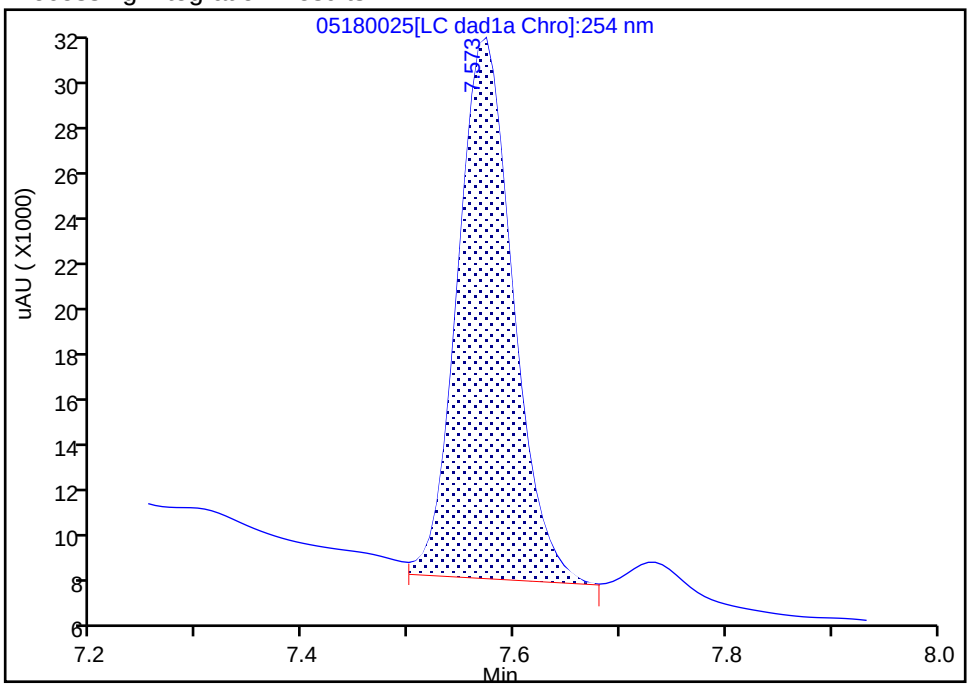
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180025.d				
Injection Date:	19-May-2023 03:30:31	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-B-2-A	Lab Sample ID:	280-176591-2		
Client ID:	WBGmw-006-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	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

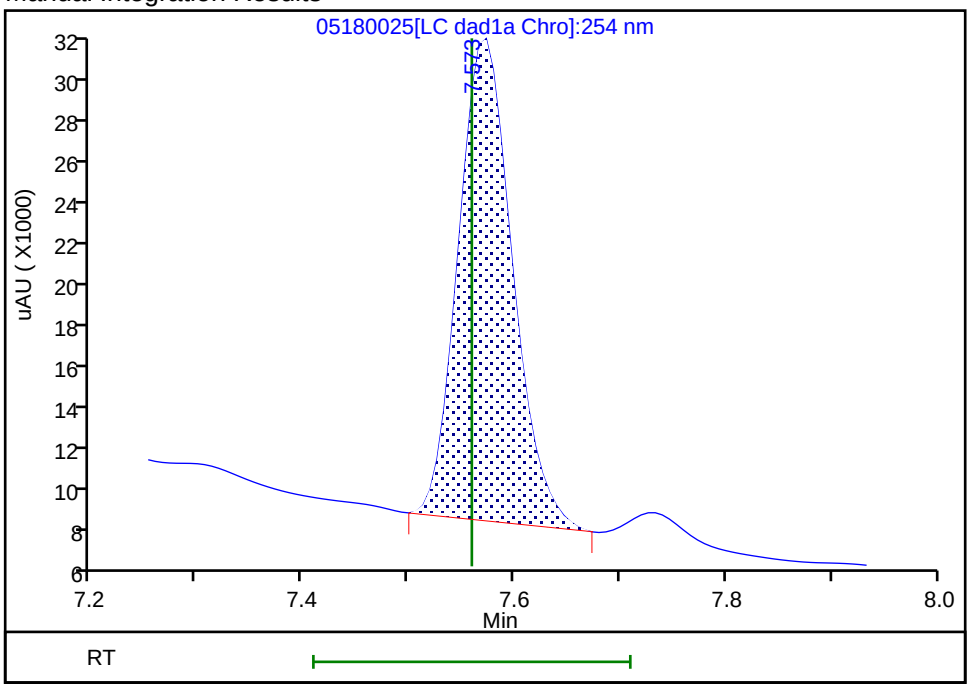
Processing Integration Results

RT: 7.57
Area: 83409
Amount: 0.784068
Amount Units: ug/mL



Manual Integration Results

RT: 7.57
Area: 80992
Amount: 0.761347
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:40:21 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

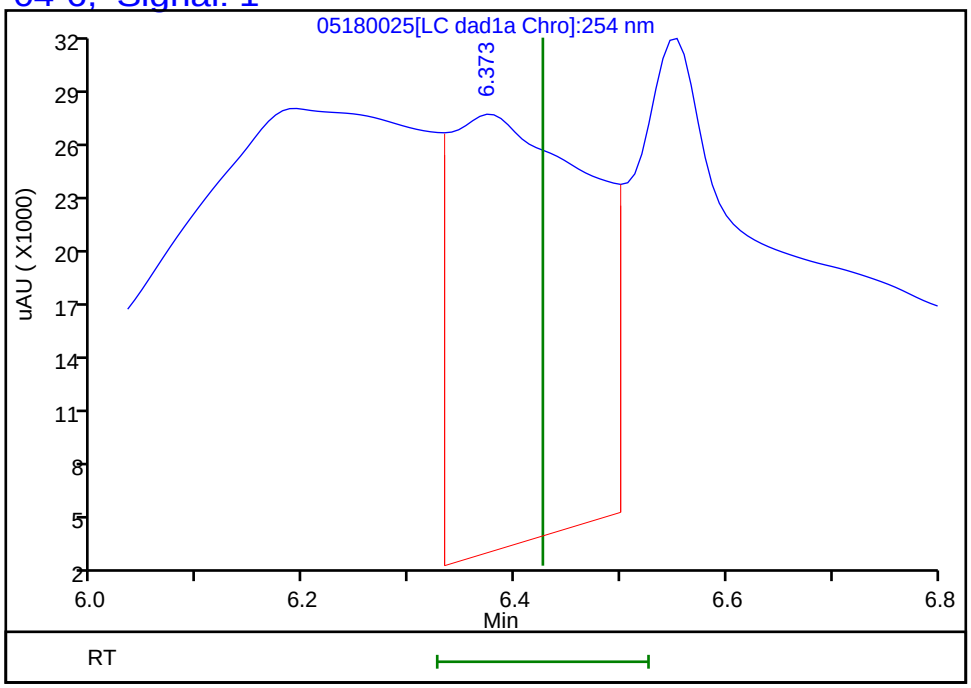
Eurofins Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180025.d
Injection Date: 19-May-2023 03:30:31 Instrument ID: CHHPLC_X3
Lims ID: 280-176591-B-2-A Lab Sample ID: 280-176591-2
Client ID: WBGmw-006-230401-GW
Operator ID: JZ/JG ALS Bottle#: 25 Worklist Smp#: 25
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

RT: 6.37
Response: 219977
Amount: 1.112752



Reviewer: LV5D, 19-May-2023 11:40:35
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-176591-1

SDG No.:

Client Sample ID: WBGmw-006-230401-GW | Lab Sample ID: 280-176591-2

Matrix: Water | Lab File ID: 05190016.D

Analysis Method: 8330B | Date Collected: 05/16/2023 13:56

Extraction Method: 3535 | Date Extracted: 05/18/2023 13:20

Sample wt/vol: 488.1(mL) | Date Analyzed: 05/19/2023 21:23

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.: 613172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-65-0	1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.038

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_X5\20230519-121649.b\05190016.D
Lims ID: 280-176591-B-2-A
Client ID: WBGmw-006-230401-GW
Sample Type: Client
Inject. Date: 19-May-2023 21:23:22 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-176591-B-2-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X5

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 20-May-2023 11:53:06 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1663

First Level Reviewer: LV5D Date: 20-May-2023 11:51:09

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
	1 2,6-diamino-4-nitrotoluene	1		4.214			ND	
	2 2,4-diamino-6-nitrotoluene	1		4.767			ND	
	3 TNX	1	5.227	5.221	0.006	2026	0.005138	M
	4 DNX	1		6.067			ND	
	5 HMX	1	6.734	6.707	0.027	60622	0.3224	
	6 MNX	1	7.587	7.567	0.020	10322	0.0394	M
	8 RDX	1	8.980	8.954	0.026	163052	0.7530	
	9 Nitrobenzene	1		11.454			ND	
$	10 1,2-Dinitrobenzene	1	12.440	12.414	0.026	52118	0.1857	
	11 3,5-Dinitroaniline	1		14.267			ND	
	12 1,3-Dinitrobenzene	1		14.534			ND	
	13 Nitroglycerin	2		15.054			ND	
	14 o-Nitrotoluene	1	15.673	15.607	0.066	2492	0.0101	
	16 p-Nitrotoluene	1		15.834			ND	
	17 4-Amino-2,6-dinitrotoluene	1		16.380			ND	
	18 m-Nitrotoluene	1		16.680			ND	
	19 2-Amino-4,6-dinitrotoluene	1		17.214			ND	
	20 1,3,5-Trinitrobenzene	1		17.340			ND	
	21 2,6-Dinitrotoluene	1		18.487			ND	
	22 2,4-Dinitrotoluene	1		18.940			ND	
	23 Tetryl	1		22.214			ND	
	24 2,4,6-Trinitrotoluene	1		23.014			ND	
	25 PETN	2		24.261			ND	

QC Flag Legend

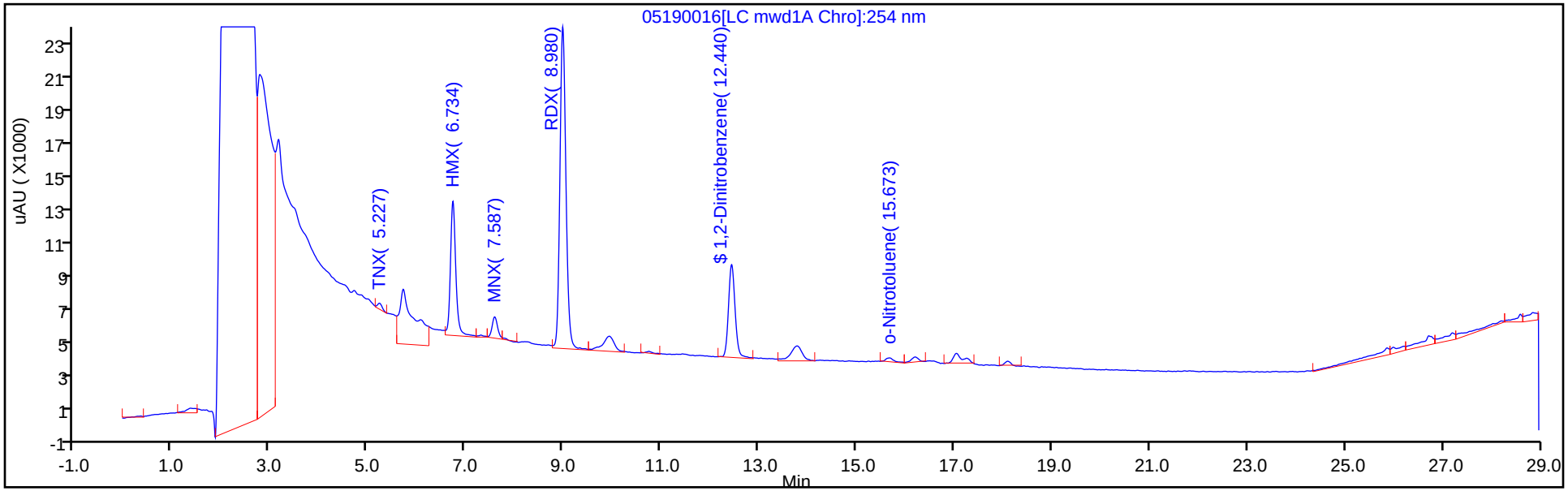
Processing Flags
Review Flags
M - Manually Integrated

Report Date: 20-May-2023 11:53:10 Chrom Revision: 2.3 16-May-2023 16:37:30

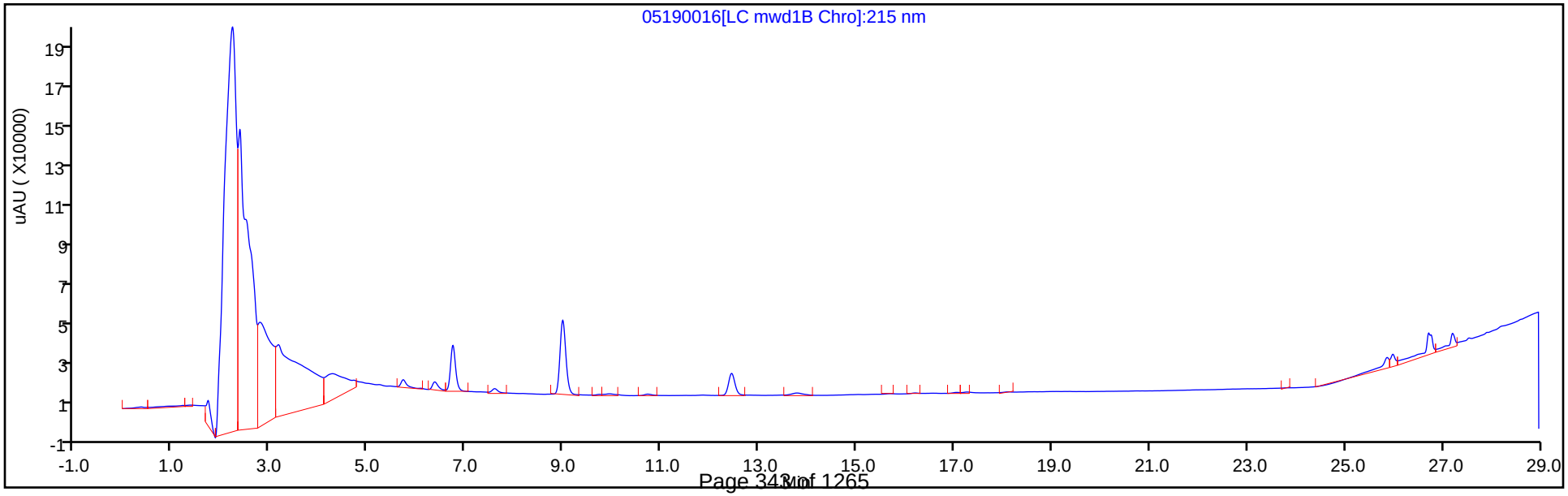
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190016.D				
Injection Date:	19-May-2023 21:23:22	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	280-176591-B-2-A	Lab Sample ID:	280-176591-2	Worklist Smp#:	16
Client ID:	WBGmw-006-230401-GW				
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



Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190016.D				
Lims ID:	280-176591-B-2-A				
Client ID:	WBGmw-006-230401-GW				
Sample Type:	Client				
Inject. Date:	19-May-2023 21:23:22	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-176591-B-2-A				
Operator ID:	JZ/JG	Instrument ID:	CHHPLC_X5		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	20-May-2023 11:53:06	Calib Date:	29-Apr-2023 04:18:01		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1663				

First Level Reviewer: LV5D Date: 20-May-2023 11:51:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1857	92.84

Manual Integration/User Assign Peak Report

Eurofins Denver

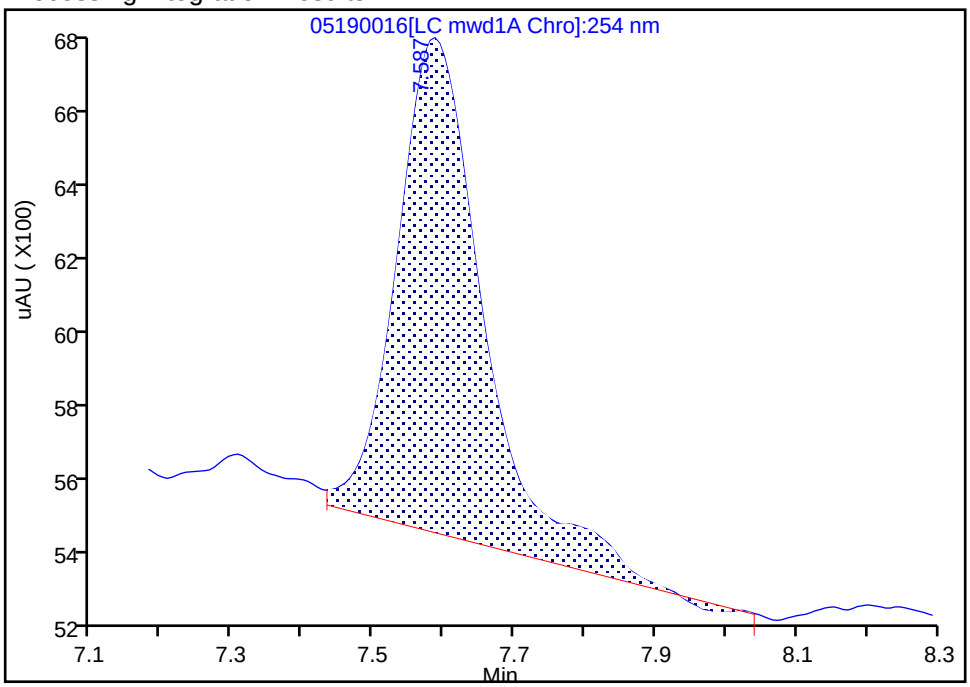
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190016.D				
Injection Date:	19-May-2023 21:23:22	Instrument ID:	CHHPLC_X5		
Lims ID:	280-176591-B-2-A	Lab Sample ID:	280-176591-2		
Client ID:	WBGmw-006-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	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		

6 MNX, CAS: 5755-27-1

Signal: 1

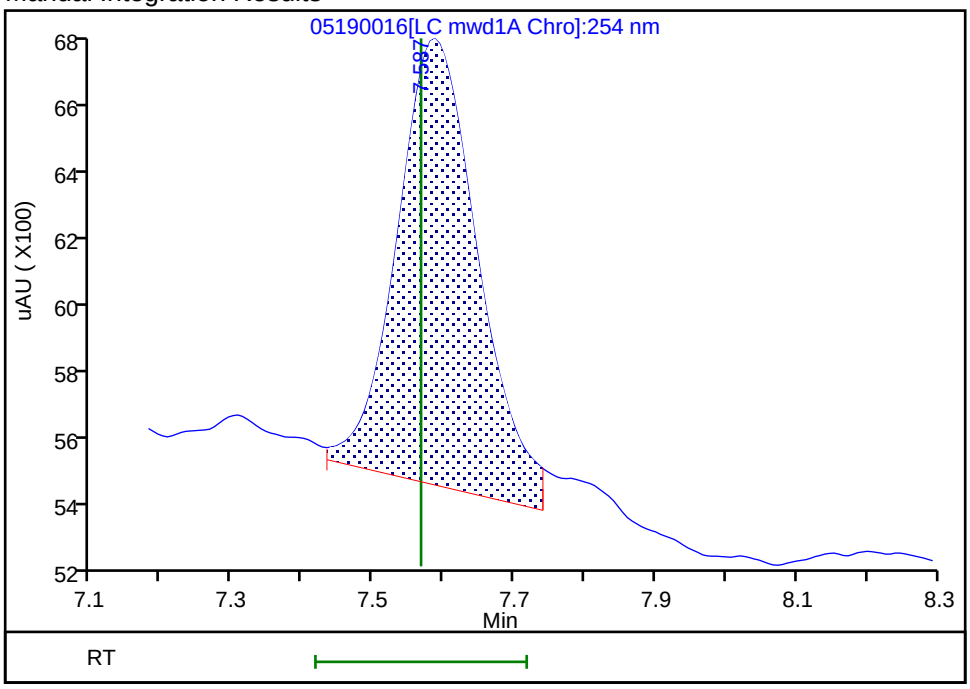
Processing Integration Results

RT: 7.59
Area: 11446
Amount: 0.043643
Amount Units: ug/ml



Manual Integration Results

RT: 7.59
Area: 10322
Amount: 0.039357
Amount Units: ug/ml



Reviewer: LV5D, 20-May-2023 11:51:29 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

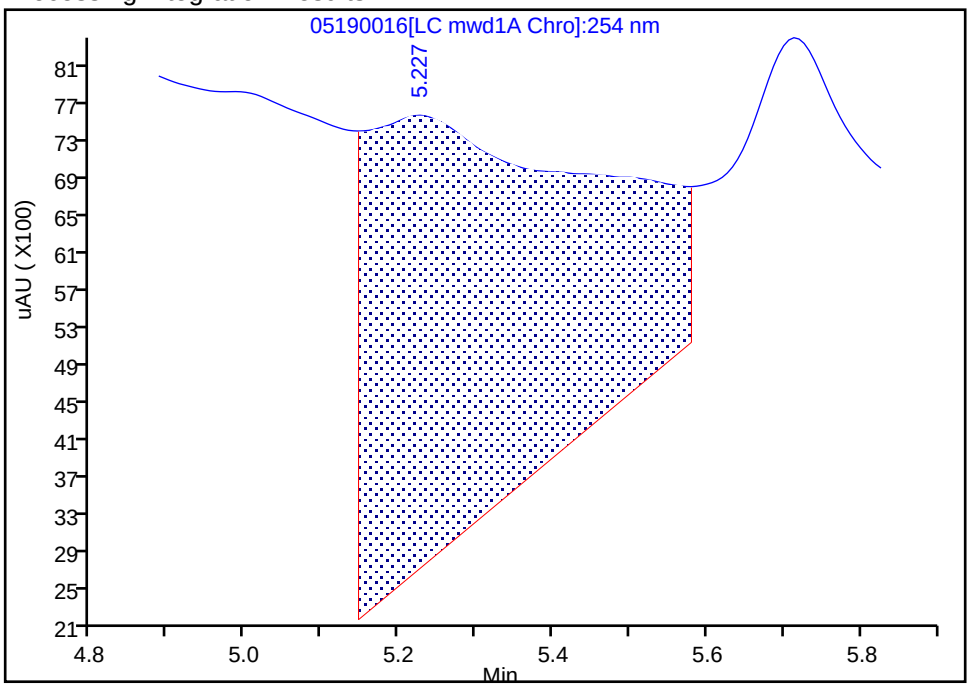
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190016.D				
Injection Date:	19-May-2023 21:23:22	Instrument ID:	CHHPLC_X5		
Lims ID:	280-176591-B-2-A	Lab Sample ID:	280-176591-2		
Client ID:	WBGmw-006-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	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		

3 TNX, CAS: 13980-04-6

Signal: 1

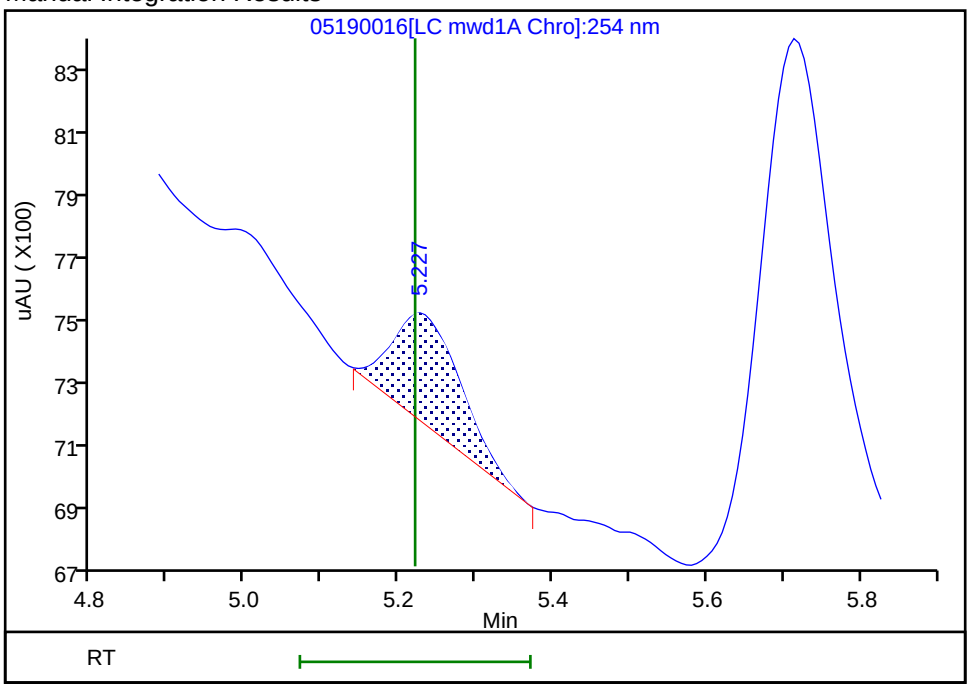
Processing Integration Results

RT: 5.23
Area: 90291
Amount: 0.228972
Amount Units: ug/ml



Manual Integration Results

RT: 5.23
Area: 2026
Amount: 0.005138
Amount Units: ug/ml



Reviewer: LV5D, 20-May-2023 11:51:08 -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.: 280-176591-1

SDG No.:

Client Sample ID: WBGmw-021-230401-GW | Lab Sample ID: 280-176591-3

Matrix: Water | Lab File ID: 05180026.D

Analysis Method: 8330B | Date Collected: 05/16/2023 13:08

Extraction Method: 3535 | Date Extracted: 05/18/2023 13:20

Sample wt/vol: 498.1(mL) | Date Analyzed: 05/19/2023 03:53

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.: 613045 | 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
6629-29-4	2,4-diamino-6-nitrotoluene	0.90	U	1.0	0.90	0.44
121-14-2	2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.028
59229-75-3	2,6-diamino-4-nitrotoluene	0.90	U	1.0	0.90	0.22
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
618-87-1	3,5-Dinitroaniline	0.30	U	0.40	0.30	0.13
99-08-1	3-Nitrotoluene	0.35	U Q	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
80251-29-2	DNX	0.25	U	0.50	0.25	0.098
2691-41-0	HMX	0.20	U M	0.21	0.20	0.088
5755-27-1	MNX	0.29	U	0.50	0.29	0.093
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
13980-04-6	TNX	0.25	U	0.50	0.25	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	102	M	83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180026.D
Lims ID: 280-176591-B-3-A
Client ID: WBGmw-021-230401-GW
Sample Type: Client
Inject. Date: 19-May-2023 03:53:27 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-176591-B-3-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:58 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 12:08:20

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 TNX	1		6.426			ND	
2 2,6-diamino-4-nitrotoluene	1		6.431			ND	
4 HMX	1		6.546			ND	U
5 2,4-diamino-6-nitrotoluene	1		6.618			ND	
6 DNX	1		6.753			ND	
7 MNX	1		7.180			ND	
8 RDX	1		7.560			ND	
$ 10 1,2-Dinitrobenzene	1	8.523	8.513	0.010	25756	0.2039	M
11 1,3,5-Trinitrobenzene	1		8.640			ND	
12 1,3-Dinitrobenzene	1		9.253			ND	
13 Nitrobenzene	1		9.626			ND	
14 3,5-Dinitroaniline	1		9.859			ND	
15 Tetryl	1		9.986			ND	
16 Nitroglycerin	2		10.439			ND	
17 2,4,6-Trinitrotoluene	1		10.873			ND	
18 4-Amino-2,6-dinitrotoluene	1		11.066			ND	
19 2-Amino-4,6-dinitrotoluene	1		11.319			ND	
20 2,6-Dinitrotoluene	1		11.473			ND	
21 2,4-Dinitrotoluene	1		11.639			ND	
22 o-Nitrotoluene	1		12.459			ND	7
23 p-Nitrotoluene	1		12.873			ND	
24 m-Nitrotoluene	1		13.446			ND	
25 PETN	2		14.599			ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
M - Manually Integrated
U - Marked Undetected

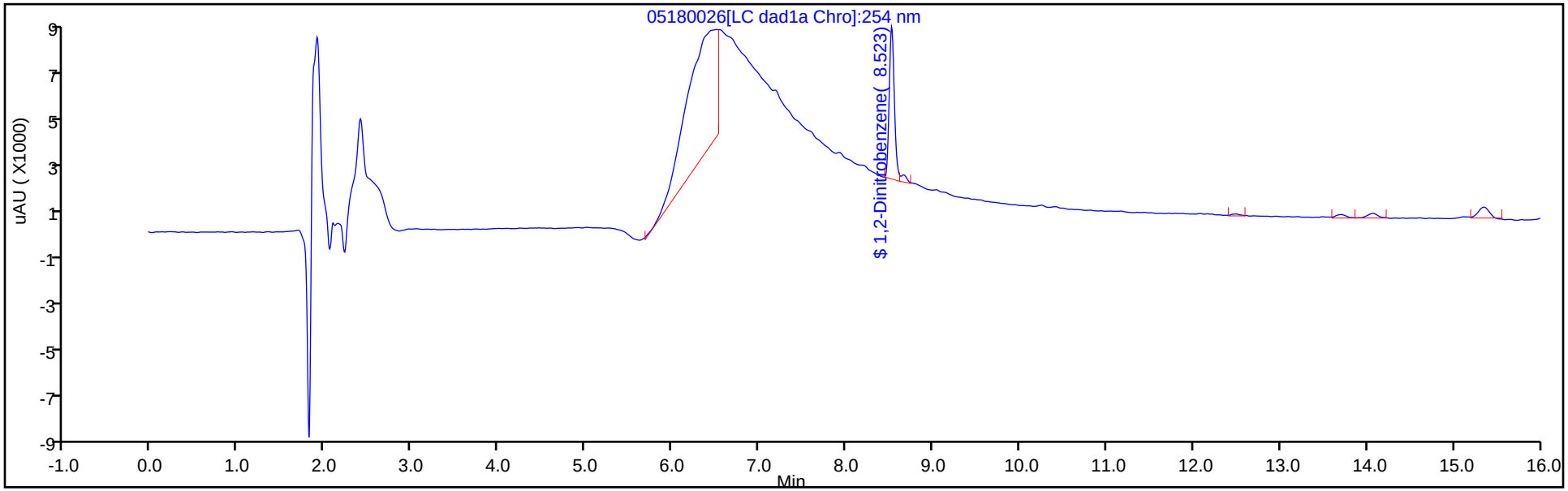
Report Date: 19-May-2023 12:22:00 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

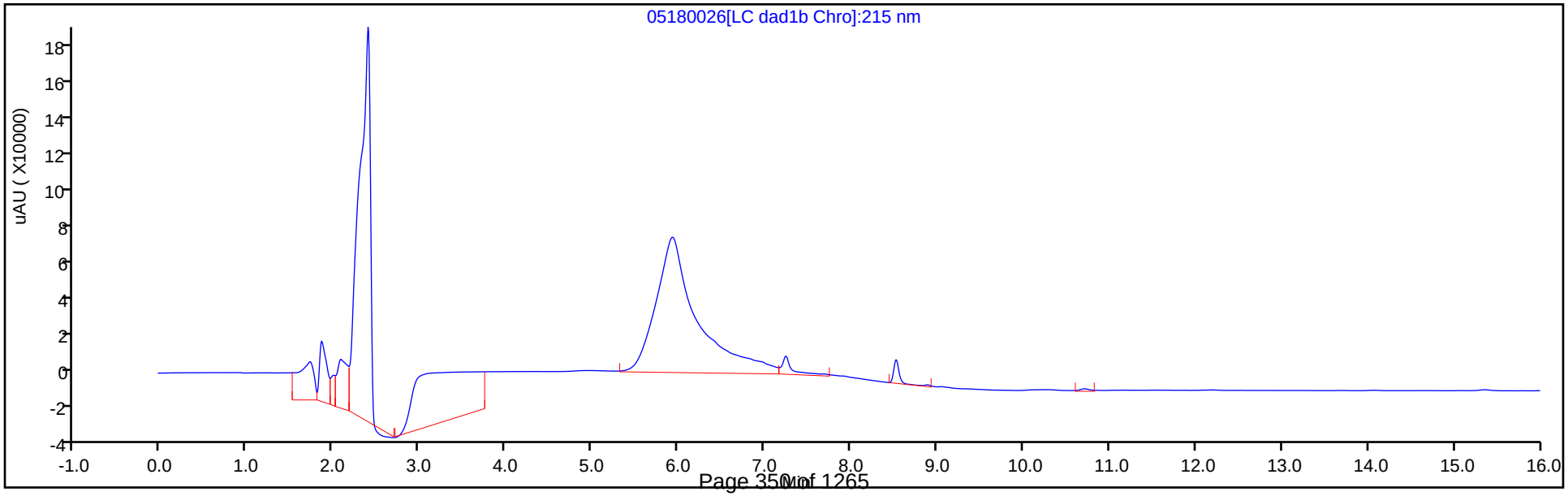
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180026.d

Injection Date:	19-May-2023 03:53:27	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	280-176591-B-3-A	Lab Sample ID:	280-176591-3	Worklist Smp#:	26
Client ID:	WBGmw-021-230401-GW				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
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\20230518-121611.b\05180026.D				
Lims ID:	280-176591-B-3-A				
Client ID:	WBGmw-021-230401-GW				
Sample Type:	Client				
Inject. Date:	19-May-2023 03:53:27	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-176591-B-3-A				
Operator ID:	JZ/JG	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	19-May-2023 12:21:58	Calib Date:	24-Feb-2023 17:41:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1654				

First Level Reviewer: LV5D Date: 19-May-2023 12:08:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2039	101.96

Manual Integration/User Assign Peak Report

Eurofins Denver

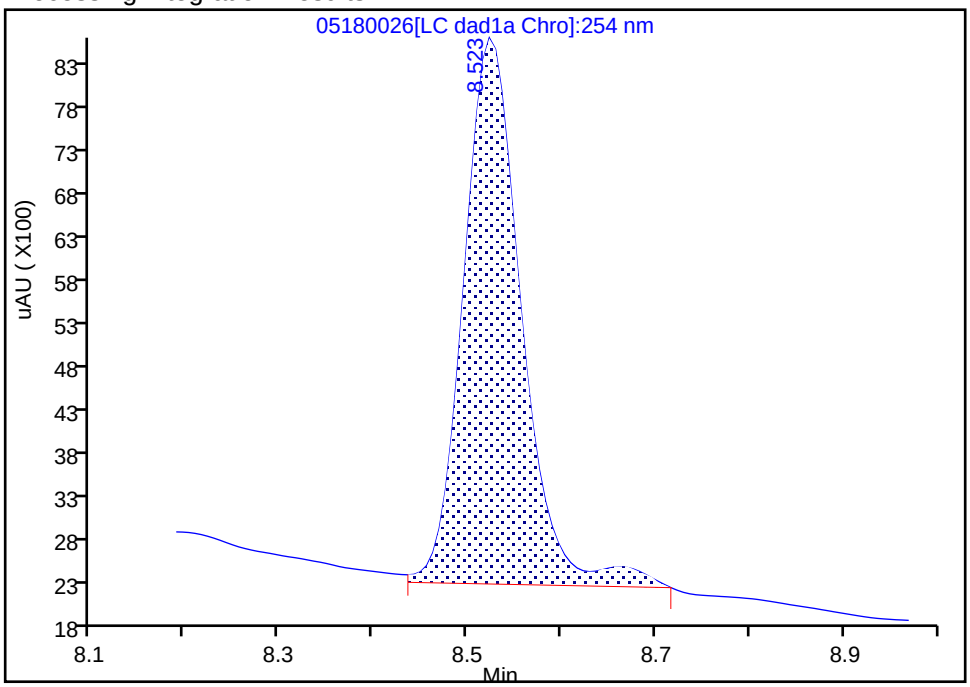
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180026.d				
Injection Date:	19-May-2023 03:53:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-B-3-A	Lab Sample ID:	280-176591-3		
Client ID:	WBGmw-021-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	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

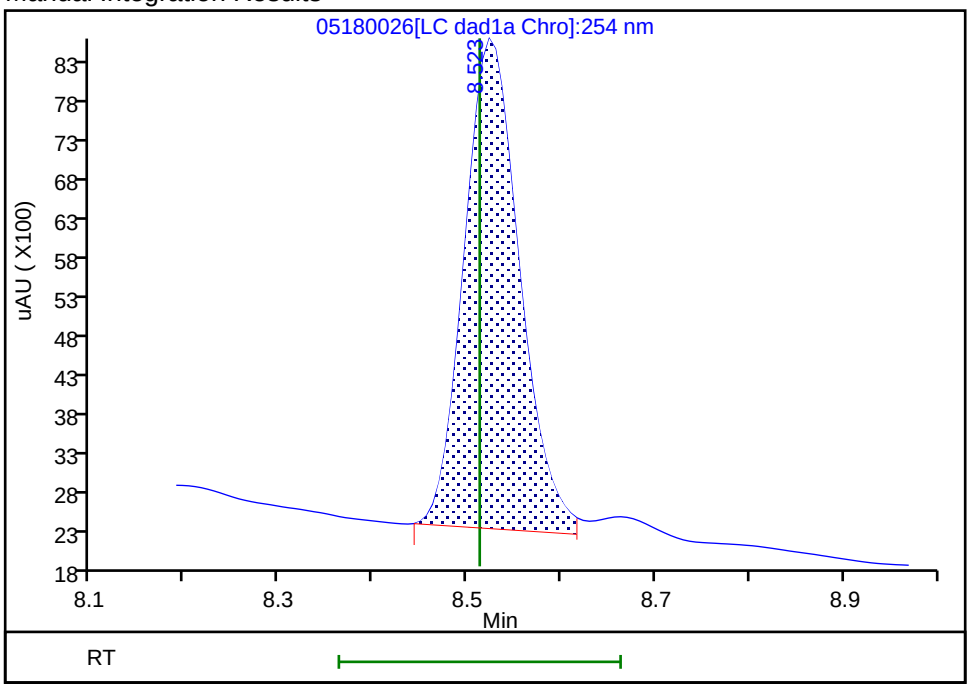
Processing Integration Results

RT: 8.52
Area: 27118
Amount: 0.214696
Amount Units: ug/mL



Manual Integration Results

RT: 8.52
Area: 25756
Amount: 0.203913
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 12:08:18 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

User Disabled Compound Report

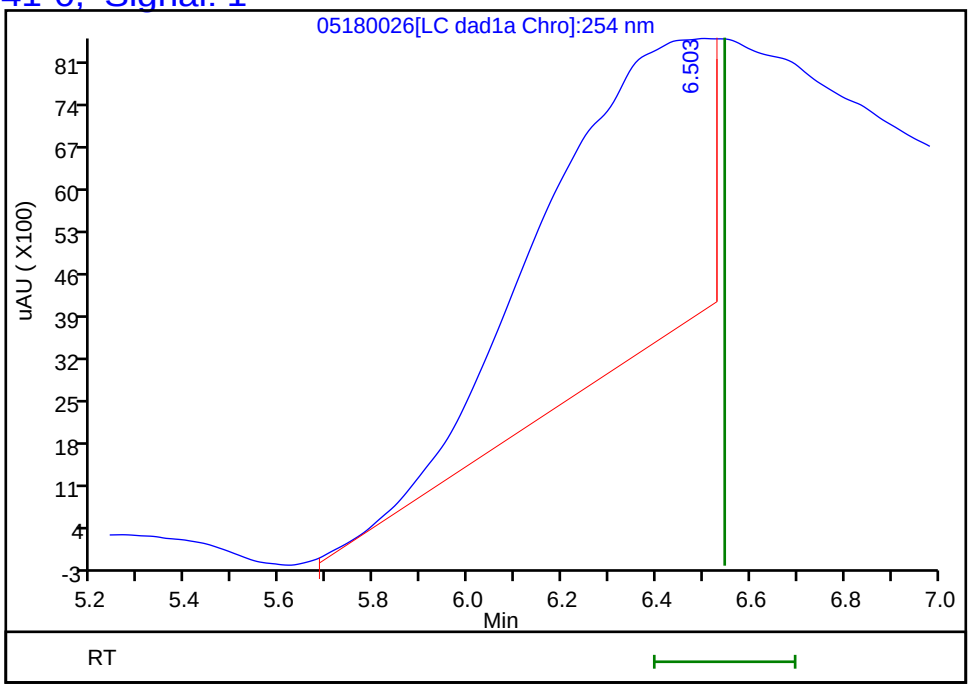
Eurofins Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180026.d
Injection Date: 19-May-2023 03:53:27 Instrument ID: CHHPLC_X3
Lims ID: 280-176591-B-3-A Lab Sample ID: 280-176591-3
Client ID: WBGmw-021-230401-GW
Operator ID: JZ/JG ALS Bottle#: 26 Worklist Smp#: 26
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: 6.50
Response: 122986
Amount: 1.314962



Reviewer: LV5D, 19-May-2023 12:08:20
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-176591-1

SDG No.:

Client Sample ID: WBGmw-009-230401-GW | Lab Sample ID: 280-176591-4

Matrix: Water | Lab File ID: 05180027.D

Analysis Method: 8330B | Date Collected: 05/16/2023 11:36

Extraction Method: 3535 | Date Extracted: 05/18/2023 13:20

Sample wt/vol: 459(mL) | Date Analyzed: 05/19/2023 04:16

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.: 613045 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.22	U	0.23	0.22	0.092
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	0.049
6629-29-4	2,4-diamino-6-nitrotoluene	0.98	U	1.1	0.98	0.47
121-14-2	2,4-Dinitrotoluene	0.087	U	0.11	0.087	0.030
59229-75-3	2,6-diamino-4-nitrotoluene	0.98	U	1.1	0.98	0.24
606-20-2	2,6-Dinitrotoluene	0.087	U	0.11	0.087	0.044
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	0.23	0.22	0.093
618-87-1	3,5-Dinitroaniline	0.33	U	0.44	0.33	0.14
99-08-1	3-Nitrotoluene	0.38	U Q	0.44	0.38	0.21
19406-51-0	4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.063
99-99-0	4-Nitrotoluene	0.44	U	0.45	0.44	0.11
80251-29-2	DNX	0.27	U	0.54	0.27	0.11
2691-41-0	HMX	0.73	M	0.23	0.22	0.095
5755-27-1	MNX	0.32	U M	0.54	0.32	0.10
98-95-3	Nitrobenzene	0.22	U	0.23	0.22	0.099
55-63-0	Nitroglycerin	2.2	U	2.3	2.2	1.0
78-11-5	PETN	1.1	U	1.2	1.1	0.49
121-82-4	RDX	1.8	M	0.23	0.22	0.056
479-45-8	Tetryl	0.11	U	0.12	0.11	0.035
13980-04-6	TNX	0.27	U M	0.54	0.27	0.086

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	102	M	83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180027.D
Lims ID: 280-176591-A-4-A
Client ID: WBGmw-009-230401-GW
Sample Type: Client
Inject. Date: 19-May-2023 04:16:22 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-176591-A-4-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:58 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 12:08:37

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 TNX	1		6.426			ND	U
2 2,6-diamino-4-nitrotoluene	1		6.431			ND	
4 HMX	1	6.551	6.546	0.005	6285	0.0672	M
5 2,4-diamino-6-nitrotoluene	1		6.618			ND	
6 DNX	1		6.753			ND	
7 MNX	1	7.178	7.180	-0.002	1038	0.007913	M
8 RDX	1	7.571	7.560	0.011	17854	0.1678	M
$ 10 1,2-Dinitrobenzene	1	8.518	8.513	0.005	25890	0.2050	M
11 1,3,5-Trinitrobenzene	1		8.640			ND	
12 1,3-Dinitrobenzene	1		9.253			ND	
13 Nitrobenzene	1		9.626			ND	
14 3,5-Dinitroaniline	1		9.859			ND	
15 Tetryl	1		9.986			ND	
16 Nitroglycerin	2		10.439			ND	
17 2,4,6-Trinitrotoluene	1		10.873			ND	
18 4-Amino-2,6-dinitrotoluene	1		11.066			ND	
19 2-Amino-4,6-dinitrotoluene	1		11.319			ND	
20 2,6-Dinitrotoluene	1		11.473			ND	
21 2,4-Dinitrotoluene	1		11.639			ND	
22 o-Nitrotoluene	1		12.459			ND	
23 p-Nitrotoluene	1		12.873			ND	
24 m-Nitrotoluene	1		13.446			ND	
25 PETN	2		14.599			ND	

QC Flag Legend
Processing Flags

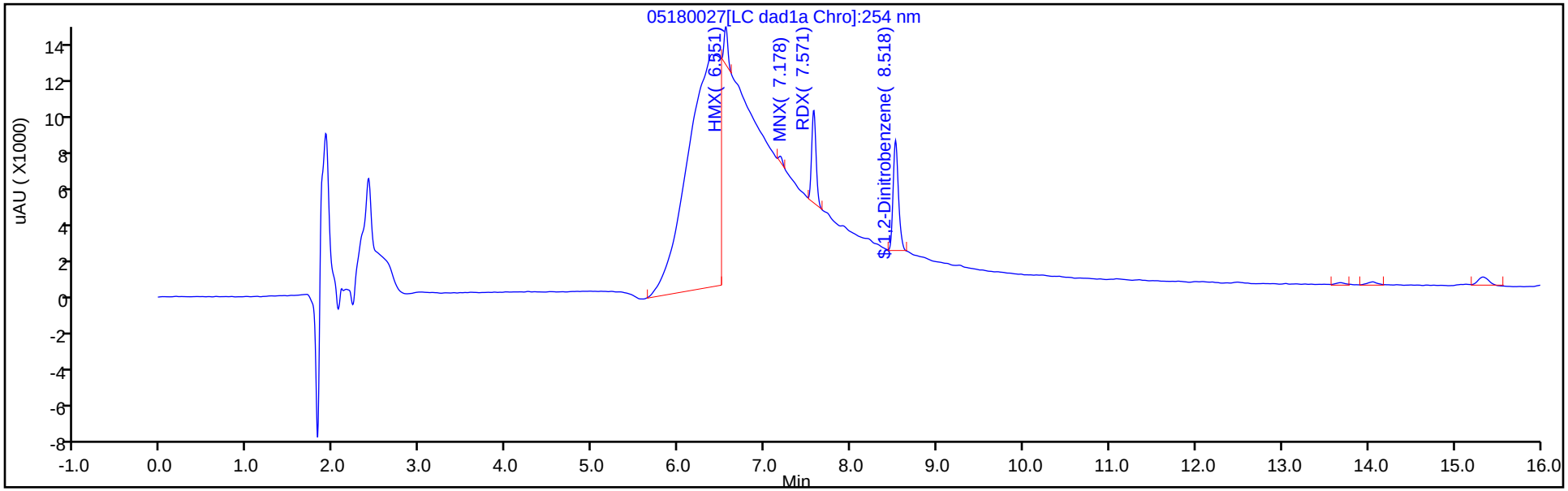
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 19-May-2023 12:22:01 Chrom Revision: 2.3 16-May-2023 16:37:30

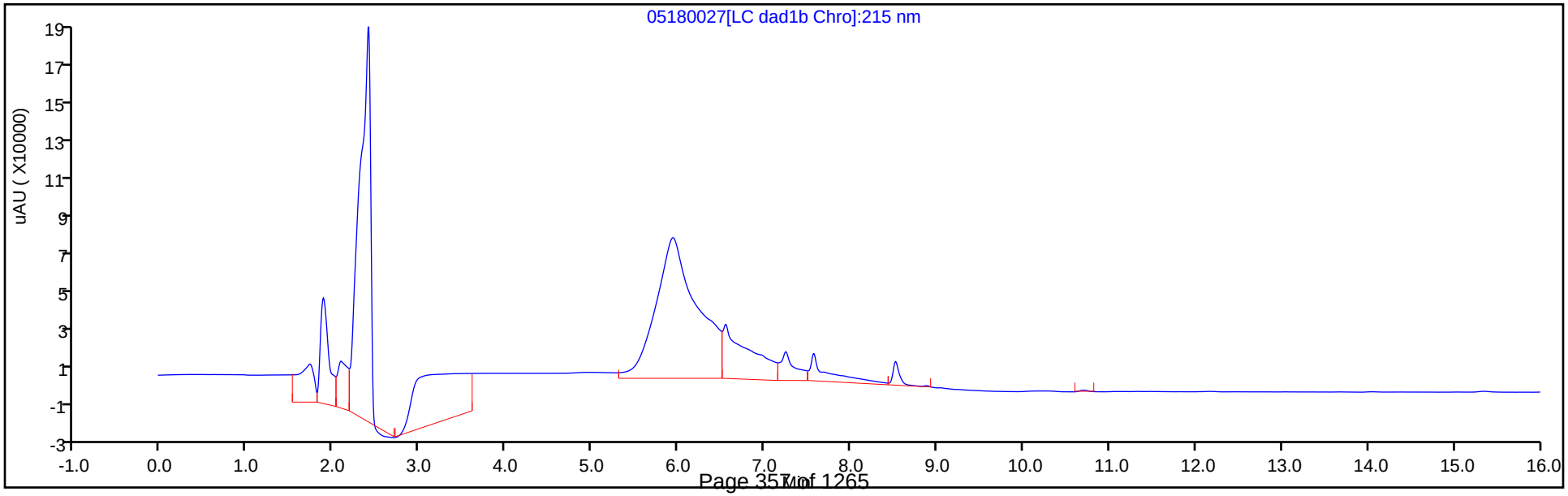
Eurofins Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180027.d				
Injection Date:	19-May-2023 04:16:22	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	280-176591-A-4-A	Lab Sample ID:	280-176591-4	Worklist Smp#:	27
Client ID:	WBGmw-009-230401-GW				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
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



Report Date: 19-May-2023 12:22:01 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180027.D
Lims ID: 280-176591-A-4-A
Client ID: WBGmw-009-230401-GW
Sample Type: Client
Inject. Date: 19-May-2023 04:16:22 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-176591-A-4-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:58 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 12:08:37

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2050	102.49

Manual Integration/User Assign Peak Report

Eurofins Denver

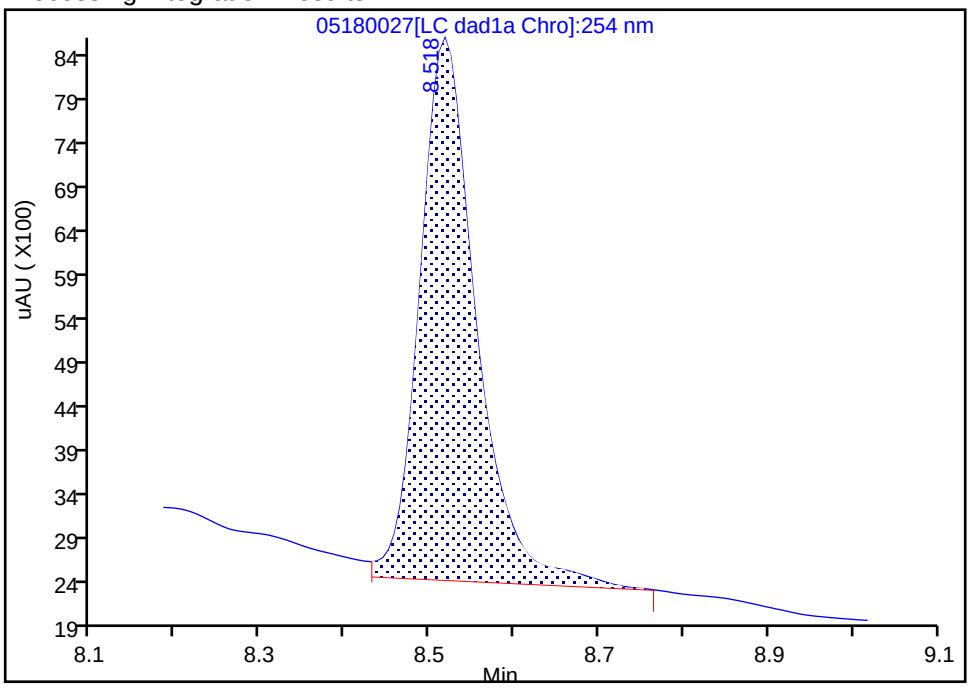
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180027.d				
Injection Date:	19-May-2023 04:16:22	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-A-4-A	Lab Sample ID:	280-176591-4		
Client ID:	WBGmw-009-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	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

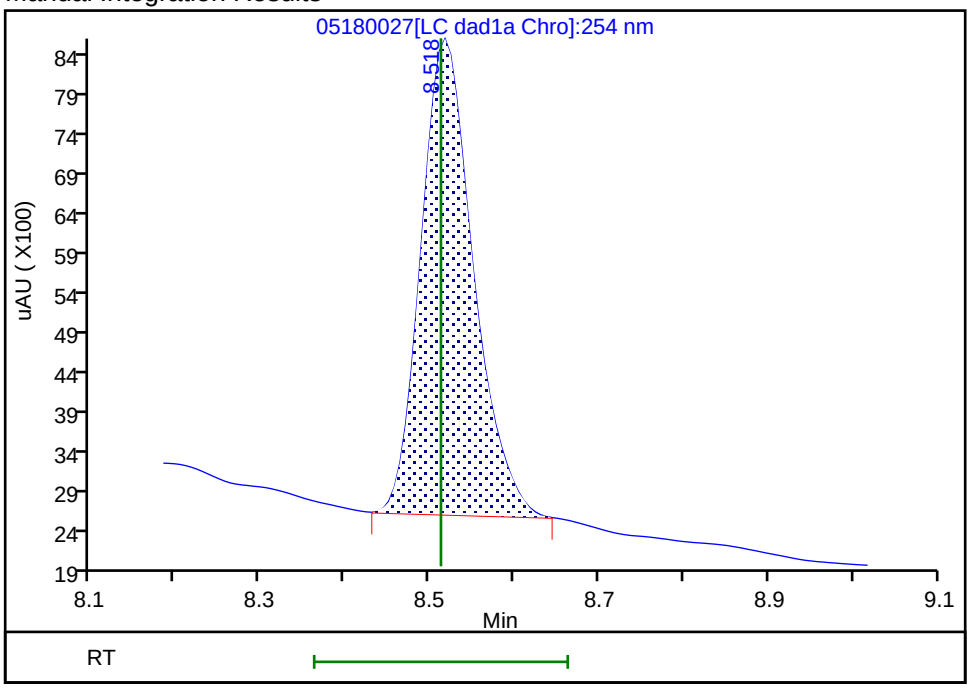
Processing Integration Results

RT: 8.52
Area: 28757
Amount: 0.227672
Amount Units: ug/mL



Manual Integration Results

RT: 8.52
Area: 25890
Amount: 0.204974
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 12:08:36 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Denver

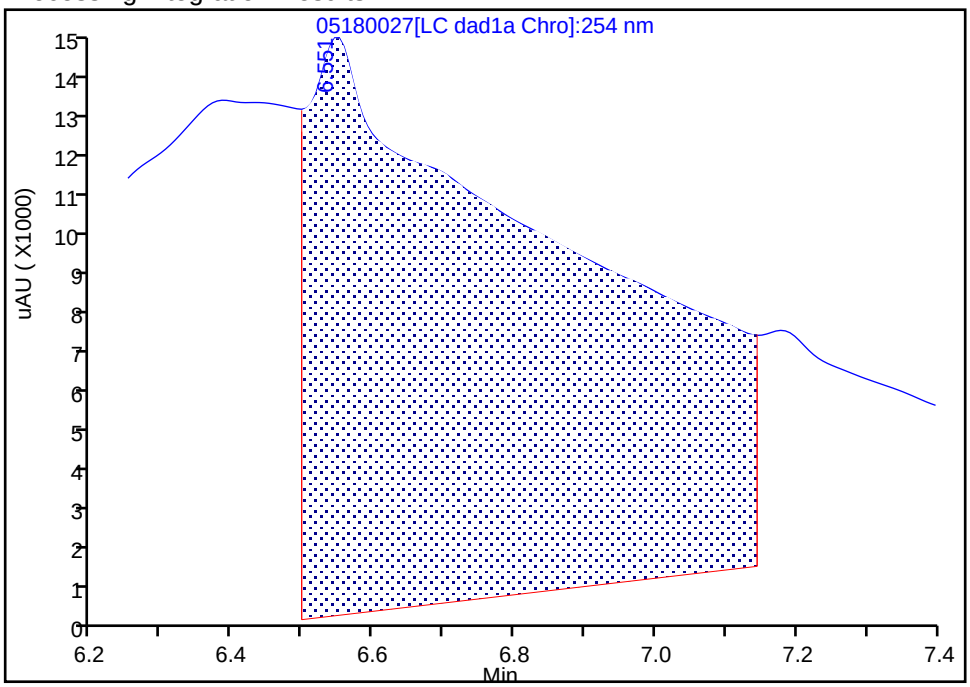
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180027.d				
Injection Date:	19-May-2023 04:16:22	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-A-4-A	Lab Sample ID:	280-176591-4		
Client ID:	WBGmw-009-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	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

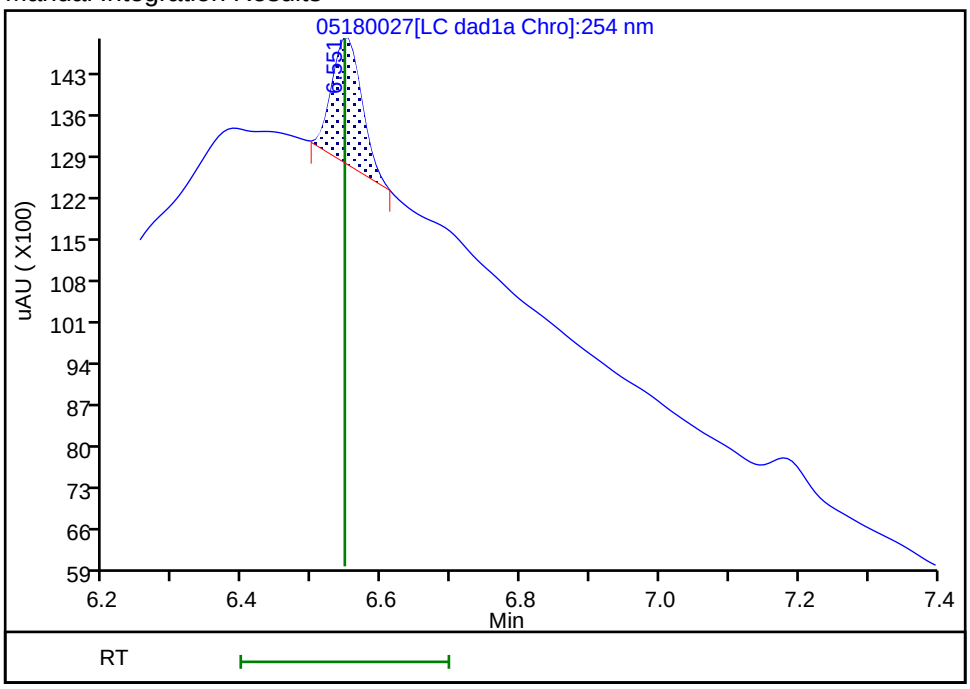
Processing Integration Results

RT: 6.55
Area: 352743
Amount: 3.771517
Amount Units: ug/mL



Manual Integration Results

RT: 6.55
Area: 6285
Amount: 0.067199
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 12:08:27 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

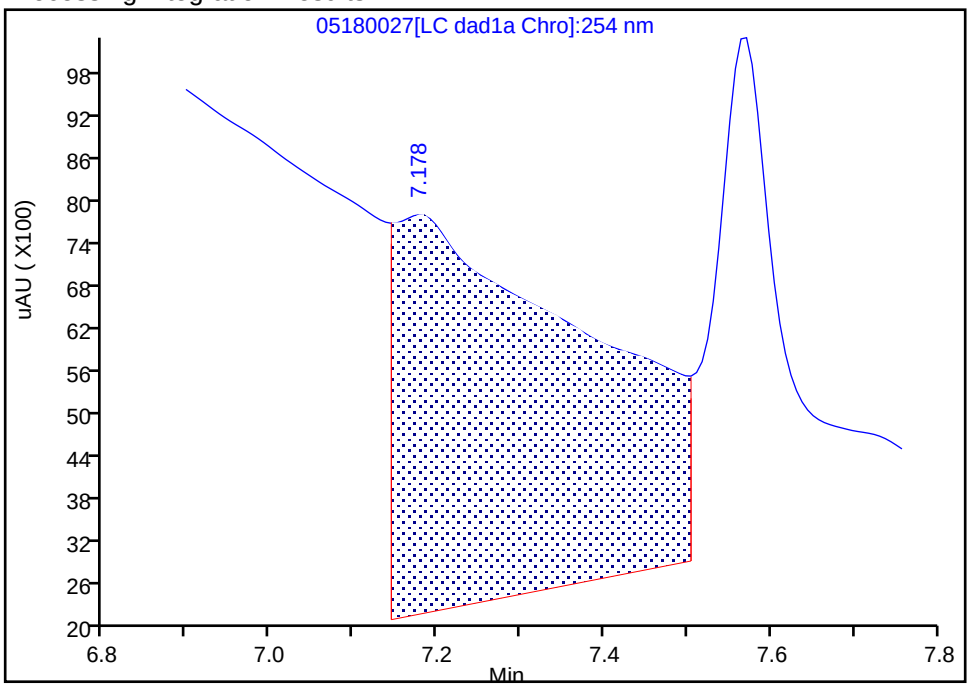
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180027.d				
Injection Date:	19-May-2023 04:16:22	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-A-4-A	Lab Sample ID:	280-176591-4		
Client ID:	WBGmw-009-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	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		

7 MNX, CAS: 5755-27-1

Signal: 1

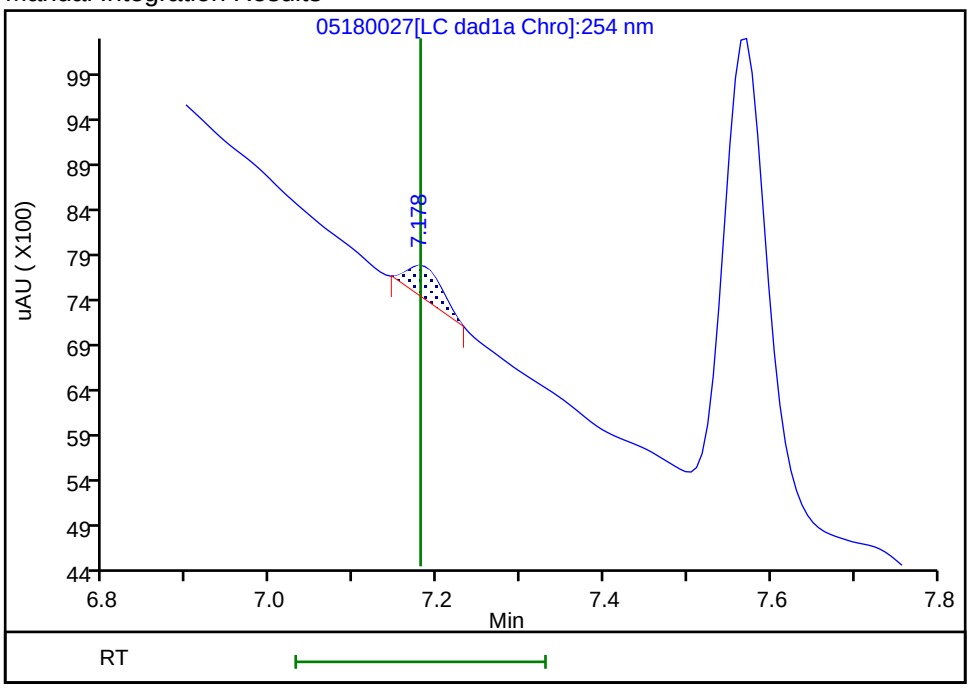
Processing Integration Results

RT: 7.18
Area: 87764
Amount: 0.669078
Amount Units: ug/mL



Manual Integration Results

RT: 7.18
Area: 1038
Amount: 0.007913
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 12:08:30 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

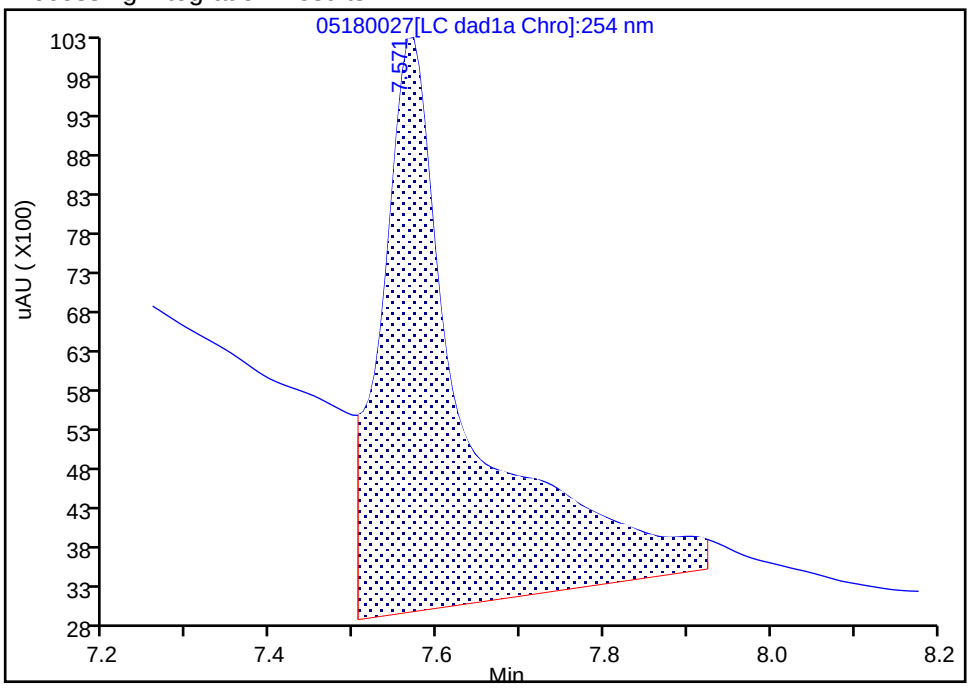
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180027.d				
Injection Date:	19-May-2023 04:16:22	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-A-4-A	Lab Sample ID:	280-176591-4		
Client ID:	WBGmw-009-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	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

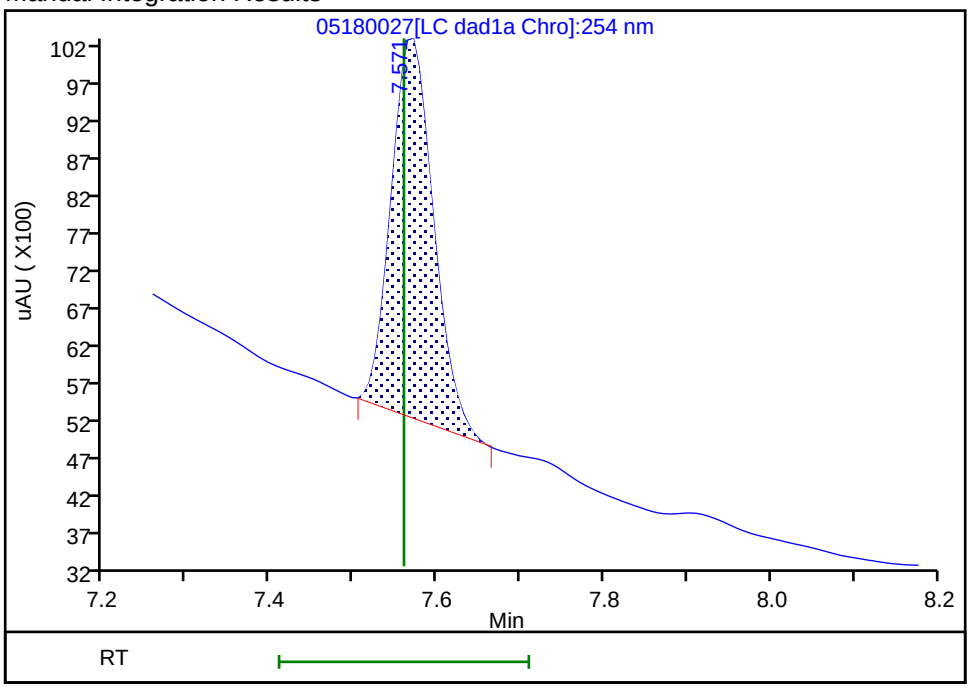
Processing Integration Results

RT: 7.57
Area: 53188
Amount: 0.499982
Amount Units: ug/mL



Manual Integration Results

RT: 7.57
Area: 17854
Amount: 0.167833
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 12:08:33 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

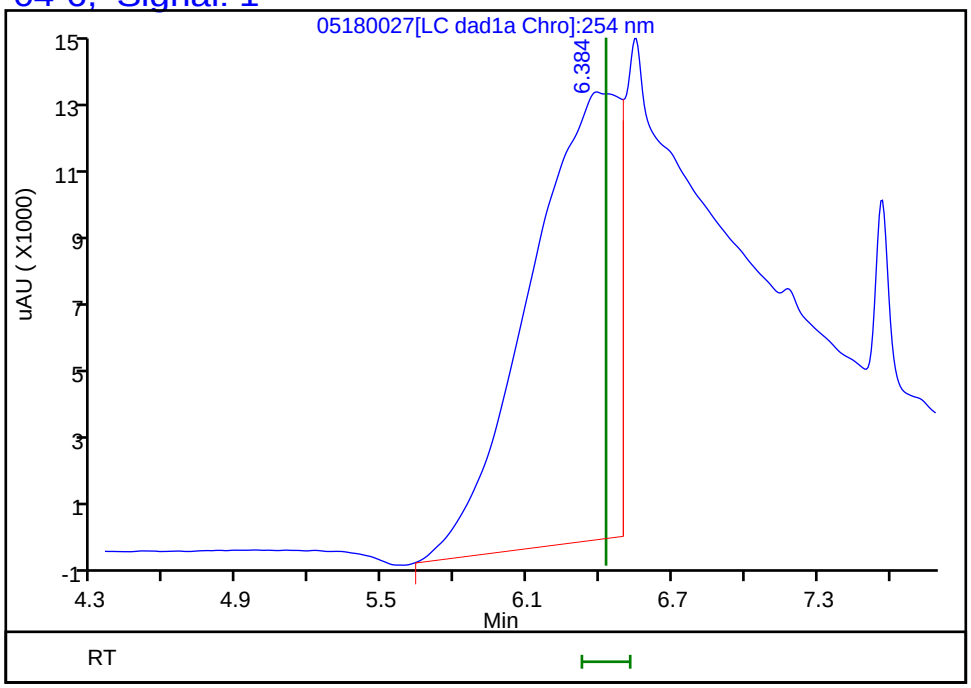
Eurofins Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180027.d

Injection Date:	19-May-2023 04:16:22	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-A-4-A	Lab Sample ID:	280-176591-4		
Client ID:	WBGmw-009-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	27	Worklist Smp#:	27
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

RT: 6.38
Response: 328162
Amount: 1.660005



Reviewer: LV5D, 19-May-2023 12:08:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Client Sample ID: WBGmw-009-230401-GW Lab Sample ID: 280-176591-4

Matrix: Water Lab File ID: 05190018.D

Analysis Method: 8330B Date Collected: 05/16/2023 11:36

Extraction Method: 3535 Date Extracted: 05/18/2023 13:20

Sample wt/vol: 459(mL) Date Analyzed: 05/19/2023 22:33

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.: 613172 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	89		83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190018.D
Lims ID: 280-176591-A-4-A
Client ID: WBGmw-009-230401-GW
Sample Type: Client
Inject. Date: 19-May-2023 22:33:12 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-176591-A-4-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X5

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 20-May-2023 11:53:06 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1663

First Level Reviewer: LV5D Date: 20-May-2023 11:51:23

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1	2,6-diamino-4-nitrotoluene	1		4.214			ND	
2	2,4-diamino-6-nitrotoluene	1		4.767			ND	
3	TNX	1		5.221			ND	
4	DNX	1		6.067			ND	
5	HMX	1	6.720	6.707	0.013	13683	0.0693	
6	MNX	1	7.573	7.567	0.006	2333	0.008896	M
8	RDX	1	8.966	8.954	0.012	36964	0.1683	
9	Nitrobenzene	1		11.454			ND	
$ 10	1,2-Dinitrobenzene	1	12.413	12.414	-0.001	49953	0.1780	
11	3,5-Dinitroaniline	1		14.267			ND	
12	1,3-Dinitrobenzene	1		14.534			ND	
13	Nitroglycerin	2		15.054			ND	U
14	o-Nitrotoluene	1		15.607			ND	7
16	p-Nitrotoluene	1		15.834			ND	
17	4-Amino-2,6-dinitrotoluene	1		16.380			ND	
18	m-Nitrotoluene	1		16.680			ND	
19	2-Amino-4,6-dinitrotoluene	1		17.214			ND	
20	1,3,5-Trinitrobenzene	1		17.340			ND	
21	2,6-Dinitrotoluene	1		18.487			ND	
22	2,4-Dinitrotoluene	1		18.940			ND	
23	Tetryl	1		22.214			ND	
24	2,4,6-Trinitrotoluene	1		23.014			ND	
25	PETN	2		24.261			ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

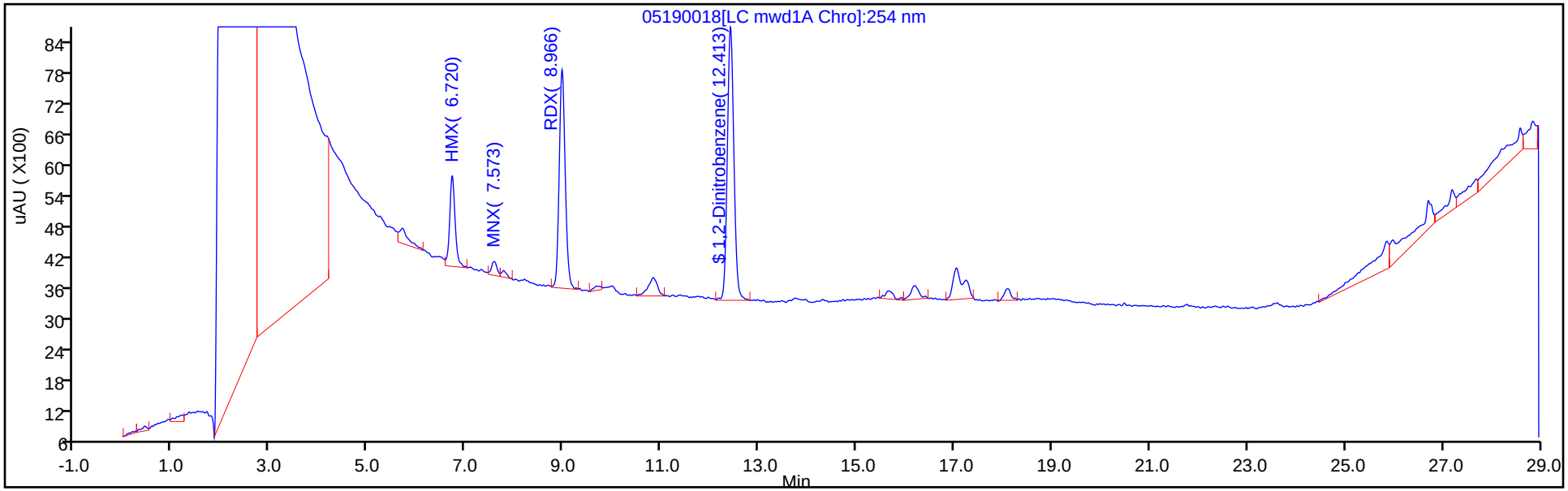
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 20-May-2023 11:53:11 Chrom Revision: 2.3 16-May-2023 16:37:30

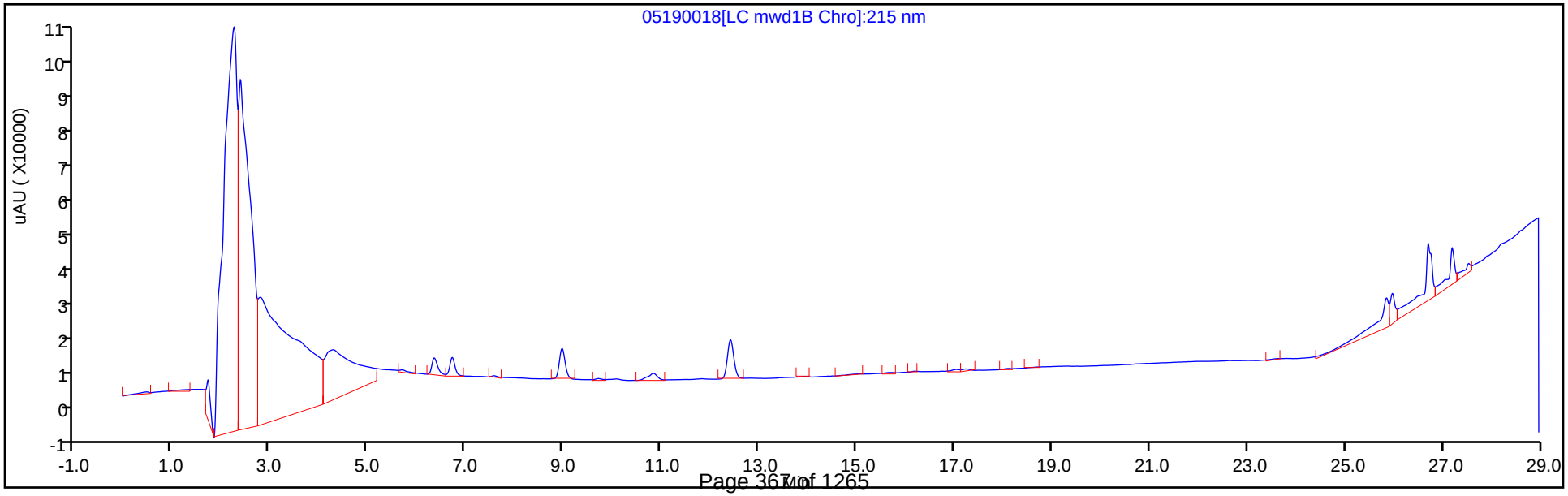
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190018.D				
Injection Date:	19-May-2023 22:33:12	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	280-176591-A-4-A	Lab Sample ID:	280-176591-4	Worklist Smp#:	18
Client ID:	WBGmw-009-230401-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\20230519-121649.b\05190018.D				
Lims ID:	280-176591-A-4-A				
Client ID:	WBGmw-009-230401-GW				
Sample Type:	Client				
Inject. Date:	19-May-2023 22:33:12	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-176591-A-4-A				
Operator ID:	JZ/JG	Instrument ID:	CHHPLC_X5		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	20-May-2023 11:53:06	Calib Date:	29-Apr-2023 04:18:01		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1663				

First Level Reviewer: LV5D Date: 20-May-2023 11:51:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1780	88.98

Manual Integration/User Assign Peak Report

Eurofins Denver

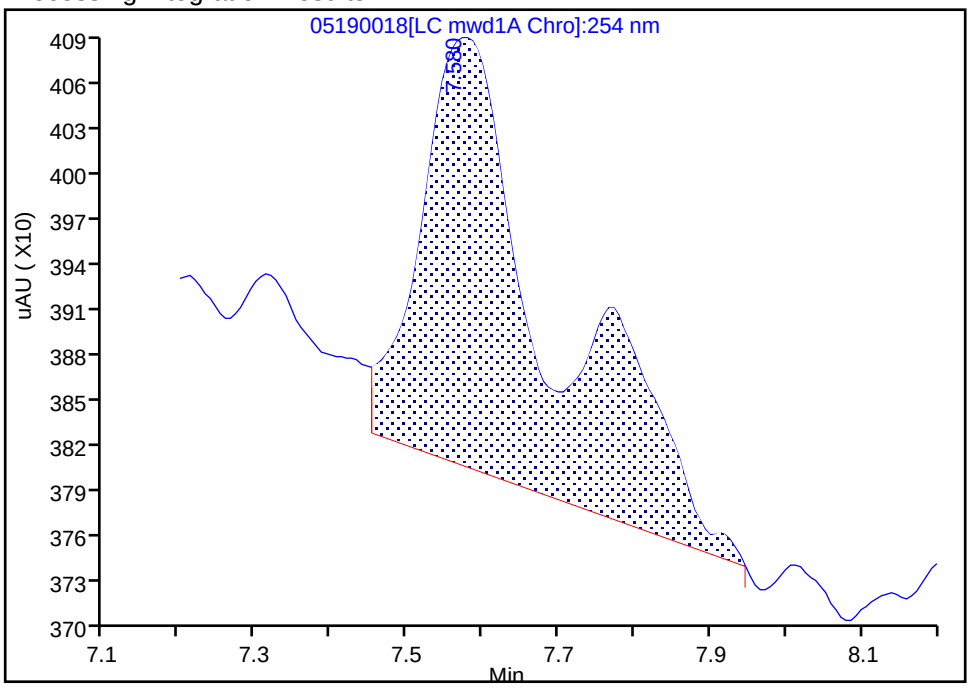
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190018.D				
Injection Date:	19-May-2023 22:33:12	Instrument ID:	CHHPLC_X5		
Lims ID:	280-176591-A-4-A	Lab Sample ID:	280-176591-4		
Client ID:	WBGmw-009-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	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		

6 MNX, CAS: 5755-27-1

Signal: 1

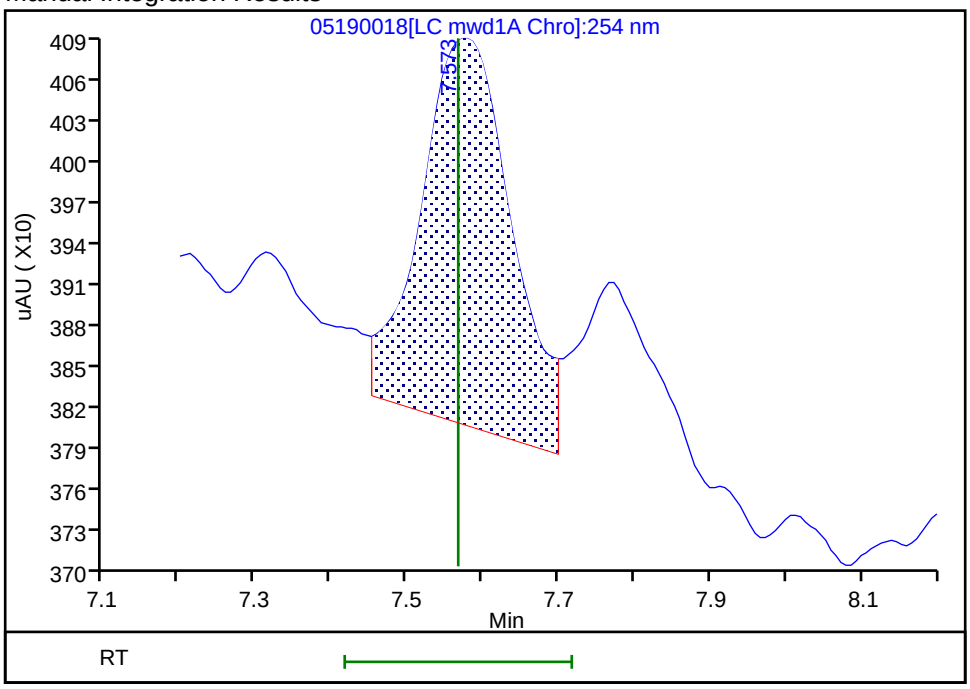
Processing Integration Results

RT: 7.58
Area: 3380
Amount: 0.012888
Amount Units: ug/ml



Manual Integration Results

RT: 7.57
Area: 2333
Amount: 0.008896
Amount Units: ug/ml



Reviewer: LV5D, 20-May-2023 11:51:18 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-176591-1

SDG No.:

Client Sample ID: WBGmw-020-230401-GW | Lab Sample ID: 280-176591-5

Matrix: Water | Lab File ID: 05180028.D

Analysis Method: 8330B | Date Collected: 05/16/2023 10:32

Extraction Method: 3535 | Date Extracted: 05/18/2023 13:20

Sample wt/vol: 495.9(mL) | Date Analyzed: 05/19/2023 04:39

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.: 613045 | 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	0.085
99-65-0	1,3-Dinitrobenzene	0.10	U M	0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045
6629-29-4	2,4-diamino-6-nitrotoluene	0.91	U	1.0	0.91	0.44
121-14-2	2,4-Dinitrotoluene	0.081	U	0.10	0.081	0.028
59229-75-3	2,6-diamino-4-nitrotoluene	0.91	U	1.0	0.91	0.22
606-20-2	2,6-Dinitrotoluene	0.081	U	0.10	0.081	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051
88-72-2	2-Nitrotoluene	0.21	J1	0.21	0.20	0.086
618-87-1	3,5-Dinitroaniline	0.30	U	0.40	0.30	0.13
99-08-1	3-Nitrotoluene	0.35	U Q	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
80251-29-2	DNX	0.25	U	0.50	0.25	0.098
98-95-3	Nitrobenzene	0.20	U	0.21	0.20	0.092
55-63-0	Nitroglycerin	2.0	U	2.1	2.0	0.93
78-11-5	PETN	1.0	U	1.1	1.0	0.45
121-82-4	RDX	0.59	J1	0.21	0.20	0.052
479-45-8	Tetryl	0.10	U	0.11	0.10	0.032
13980-04-6	TNX	0.25	U M	0.50	0.25	0.080

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	102	M	83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180028.D
Lims ID: 280-176591-B-5-A
Client ID: WBGmw-020-230401-GW
Sample Type: Client
Inject. Date: 19-May-2023 04:39:19 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-176591-B-5-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:58 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 12:08:57

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 TNX	1		6.426			ND	U
	2 2,6-diamino-4-nitrotoluene	1		6.431			ND	
	4 HMX	1	6.558	6.546	0.012	1091	0.0117	
	5 2,4-diamino-6-nitrotoluene	1		6.618			ND	
	6 DNX	1		6.753			ND	
	7 MNX	1	7.205	7.180	0.025	2856	0.0218	
	8 RDX	1	7.585	7.560	0.025	6185	0.0581	
$	10 1,2-Dinitrobenzene	1	8.518	8.513	0.005	25681	0.2033	M
	11 1,3,5-Trinitrobenzene	1		8.640			ND	
	12 1,3-Dinitrobenzene	1		9.253			ND	U
	13 Nitrobenzene	1		9.626			ND	
	14 3,5-Dinitroaniline	1		9.859			ND	
	15 Tetryl	1		9.986			ND	
	16 Nitroglycerin	2		10.439			ND	
	17 2,4,6-Trinitrotoluene	1		10.873			ND	
	18 4-Amino-2,6-dinitrotoluene	1		11.066			ND	
	19 2-Amino-4,6-dinitrotoluene	1		11.319			ND	
	20 2,6-Dinitrotoluene	1		11.473			ND	
	21 2,4-Dinitrotoluene	1		11.639			ND	
	22 o-Nitrotoluene	1	12.478	12.459	0.019	2610	0.0204	
	23 p-Nitrotoluene	1		12.873			ND	
	24 m-Nitrotoluene	1		13.446			ND	
	25 PETN	2		14.599			ND	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated
U - Marked Undetected

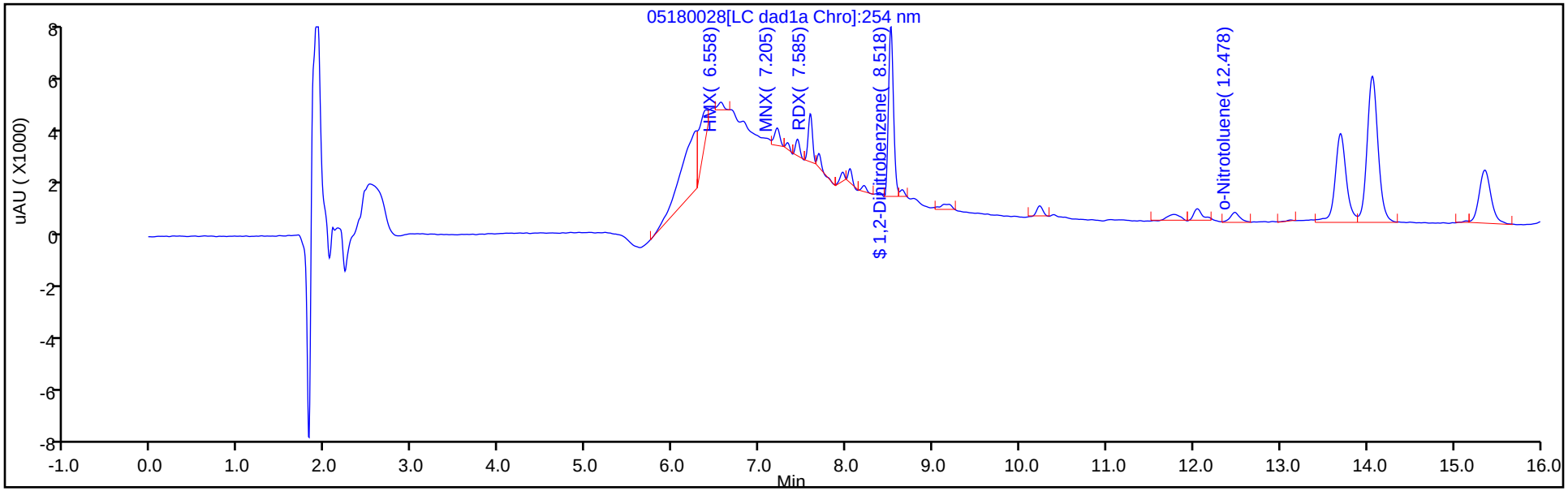
Report Date: 19-May-2023 12:22:01 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

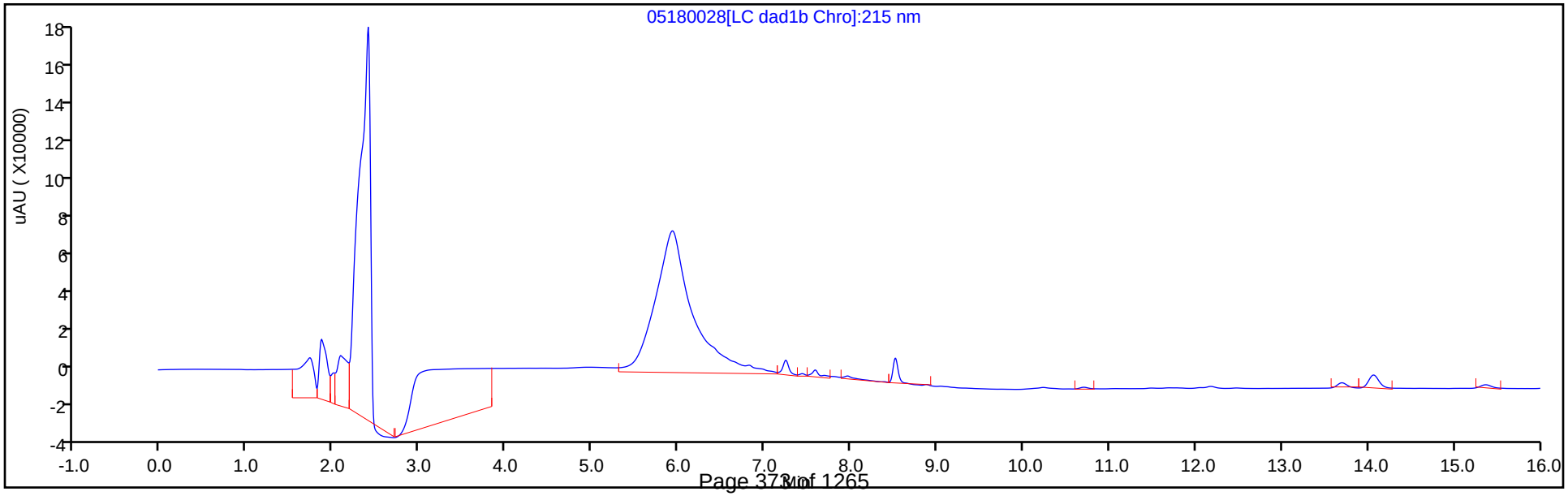
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180028.d

Injection Date:	19-May-2023 04:39:19	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	280-176591-B-5-A	Lab Sample ID:	280-176591-5	Worklist Smp#:	28
Client ID:	WBGmw-020-230401-GW				
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



Report Date: 19-May-2023 12:22:01 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180028.D				
Lims ID:	280-176591-B-5-A				
Client ID:	WBGmw-020-230401-GW				
Sample Type:	Client				
Inject. Date:	19-May-2023 04:39:19	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-176591-B-5-A				
Operator ID:	JZ/JG	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	19-May-2023 12:21:58	Calib Date:	24-Feb-2023 17:41:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1654				

First Level Reviewer: LV5D Date: 19-May-2023 12:08:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2033	101.66

Manual Integration/User Assign Peak Report

Eurofins Denver

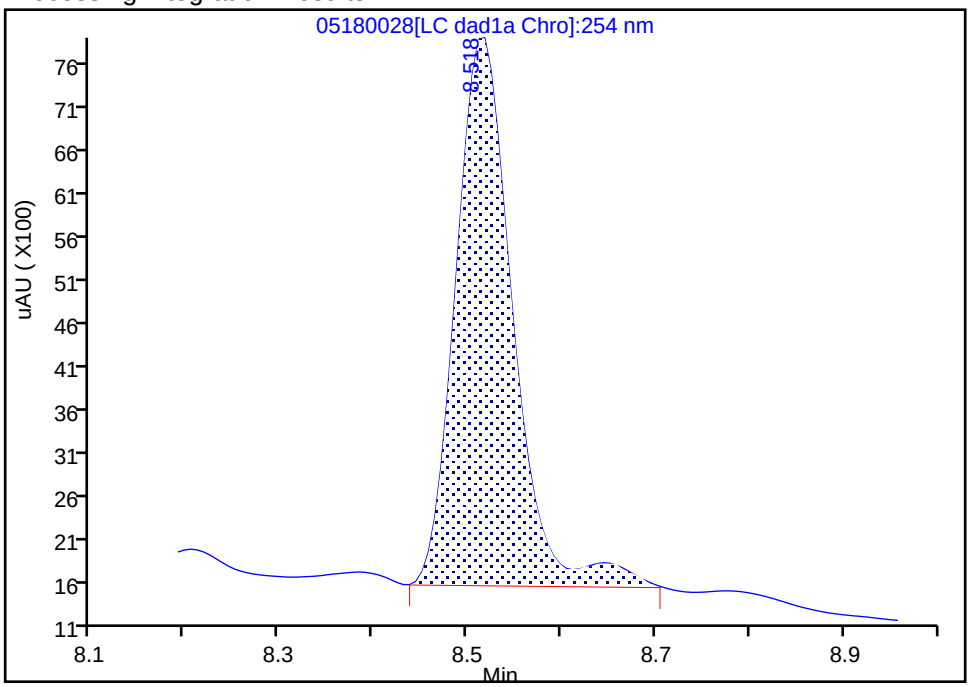
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180028.d				
Injection Date:	19-May-2023 04:39:19	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-B-5-A	Lab Sample ID:	280-176591-5		
Client ID:	WBGmw-020-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	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

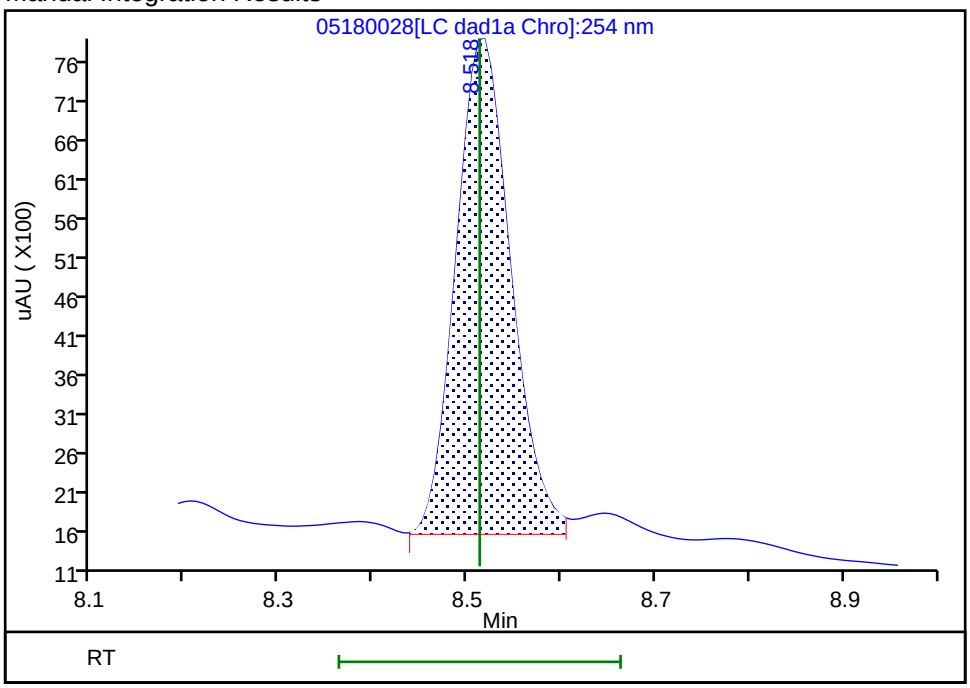
Processing Integration Results

RT: 8.52
Area: 26753
Amount: 0.211806
Amount Units: ug/mL



Manual Integration Results

RT: 8.52
Area: 25681
Amount: 0.203319
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 12:08:46 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

User Disabled Compound Report

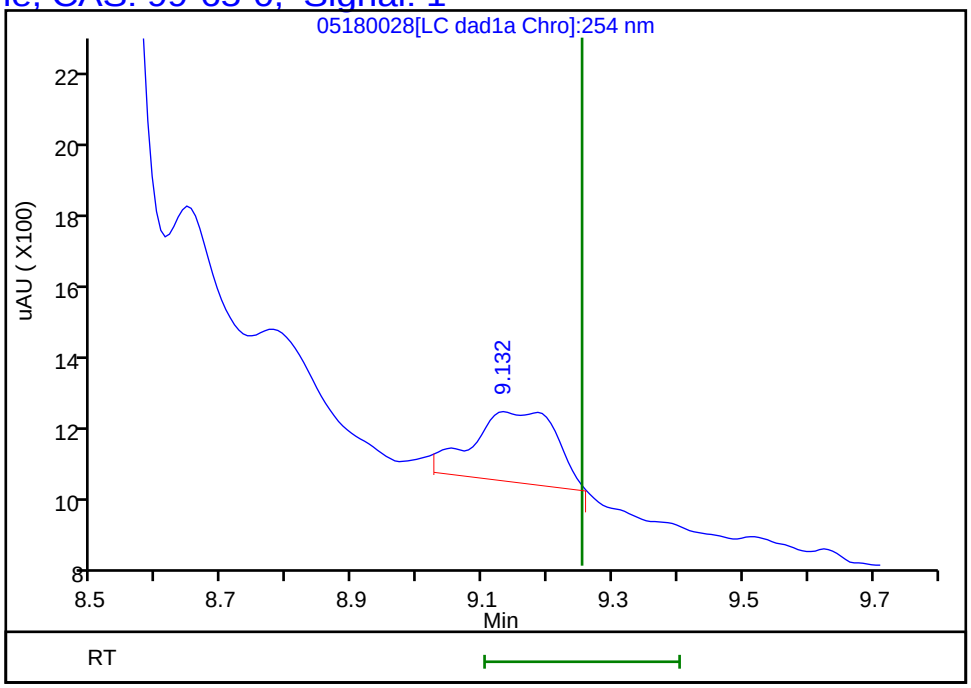
Eurofins Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180028.d
Injection Date: 19-May-2023 04:39:19 Instrument ID: CHHPLC_X3
Lims ID: 280-176591-B-5-A Lab Sample ID: 280-176591-5
Client ID: WBGmw-020-230401-GW
Operator ID: JZ/JG 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

12 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.13
Response: 1646
Amount: 0.005591



Reviewer: LV5D, 19-May-2023 12:08:57
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

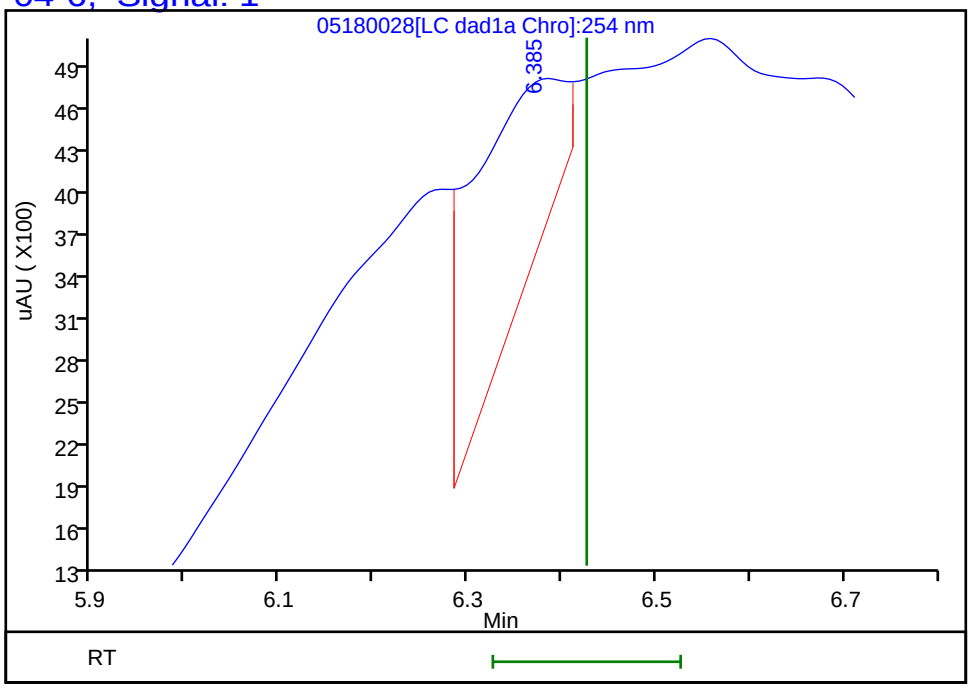
Eurofins Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180028.d
Injection Date: 19-May-2023 04:39:19 Instrument ID: CHHPLC_X3
Lims ID: 280-176591-B-5-A Lab Sample ID: 280-176591-5
Client ID: WBGmw-020-230401-GW
Operator ID: JZ/JG 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

3 TNX, CAS: 13980-04-6, Signal: 1

RT: 6.38
Response: 10464
Amount: 0.052932



Reviewer: LV5D, 19-May-2023 12:08:57
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-176591-1

SDG No.:

Client Sample ID: WBGmw-020-230401-GW | Lab Sample ID: 280-176591-5

Matrix: Water | Lab File ID: 05190019.D

Analysis Method: 8330B | Date Collected: 05/16/2023 10:32

Extraction Method: 3535 | Date Extracted: 05/18/2023 13:20

Sample wt/vol: 495.9(mL) | Date Analyzed: 05/19/2023 23:08

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.: 613172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
88-72-2	*2-Nitrotoluene*	*2.2*	*J1*	*0.21*	0.20	*0.086*
2691-41-0	HMX	0.20	U	0.21	0.20	0.088
5755-27-1	MNX	0.29	U	0.50	0.29	0.094
121-82-4	*RDX*	*0.15*	*J J1*	*0.21*	0.20	*0.052*

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	96		83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190019.D
Lims ID: 280-176591-B-5-A
Client ID: WBGmw-020-230401-GW
Sample Type: Client
Inject. Date: 19-May-2023 23:08:07 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-176591-B-5-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X5

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 20-May-2023 11:53:06 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1663

First Level Reviewer: LV5D Date: 20-May-2023 11:51:44

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1	2,6-diamino-4-nitrotoluene	1		4.214			ND	
2	2,4-diamino-6-nitrotoluene	1		4.767			ND	
3	TNX	1		5.221			ND	
4	DNX	1		6.067			ND	
5	HMX	1		6.707			ND	7
6	MNX	1		7.567			ND	
8	RDX	1	8.984	8.954	0.030	3983	0.0154	
9	Nitrobenzene	1	11.471	11.454	0.017	3700	0.009277	
$ 10	1,2-Dinitrobenzene	1	12.431	12.414	0.017	53889	0.1920	
11	3,5-Dinitroaniline	1	14.324	14.267	0.057	5660	0.0114	
12	1,3-Dinitrobenzene	1		14.534			ND	
13	Nitroglycerin	2		15.054			ND	U
14	o-Nitrotoluene	1	15.657	15.607	0.050	54636	0.2212	
16	p-Nitrotoluene	1		15.834			ND	
17	4-Amino-2,6-dinitrotoluene	1		16.380			ND	
18	m-Nitrotoluene	1		16.680			ND	
19	2-Amino-4,6-dinitrotoluene	1	17.237	17.214	0.023	16296	0.0381	
20	1,3,5-Trinitrobenzene	1		17.340			ND	
21	2,6-Dinitrotoluene	1		18.487			ND	
22	2,4-Dinitrotoluene	1		18.940			ND	
23	Tetryl	1		22.214			ND	
24	2,4,6-Trinitrotoluene	1		23.014			ND	
25	PETN	2		24.261			ND	

QC Flag Legend

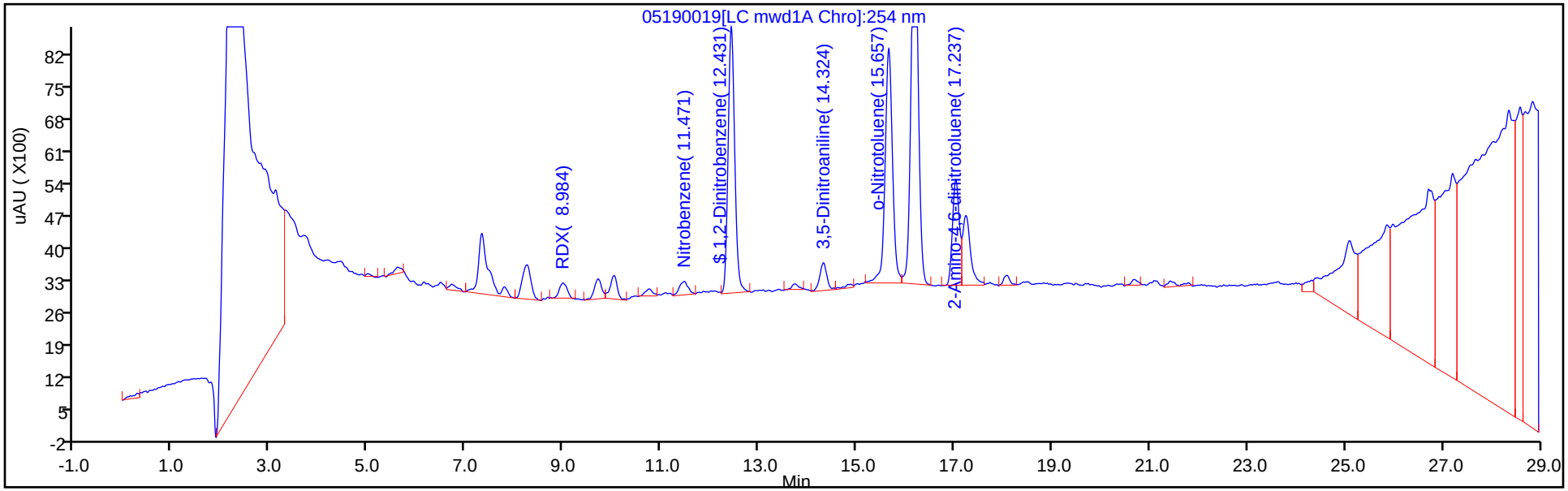
Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Report Date: 20-May-2023 11:53:11 Chrom Revision: 2.3 16-May-2023 16:37:30

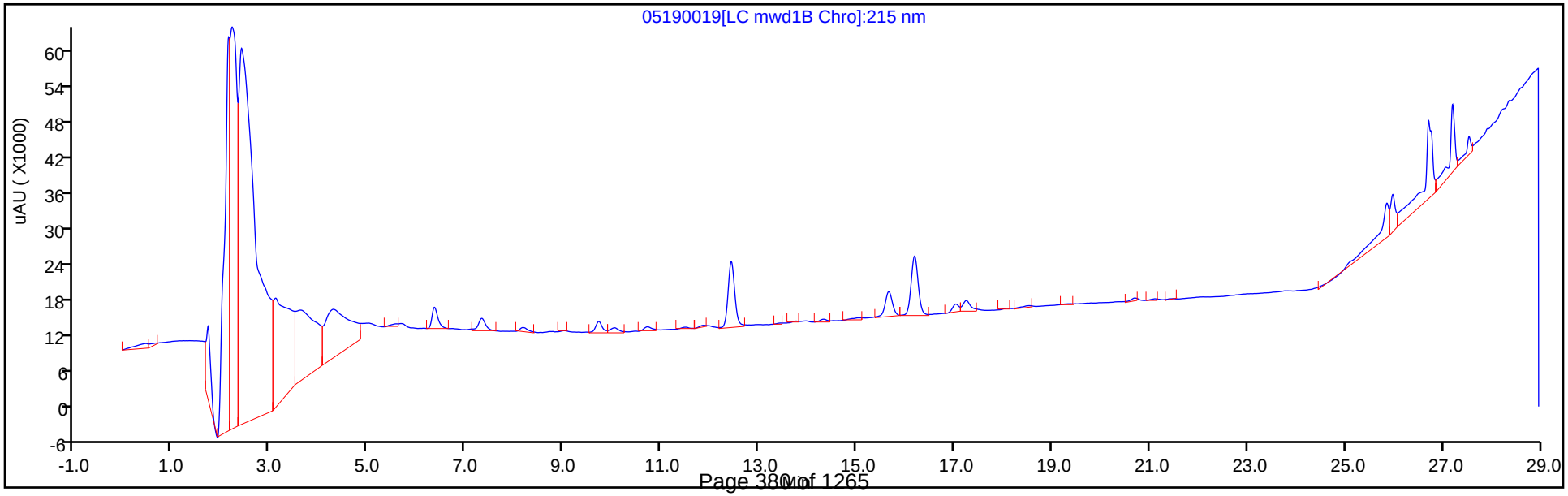
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190019.D				
Injection Date:	19-May-2023 23:08:07	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	280-176591-B-5-A	Lab Sample ID:	280-176591-5	Worklist Smp#:	19
Client ID:	WBGmw-020-230401-GW				
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



Report Date: 20-May-2023 11:53:11 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190019.D				
Lims ID:	280-176591-B-5-A				
Client ID:	WBGmw-020-230401-GW				
Sample Type:	Client				
Inject. Date:	19-May-2023 23:08:07	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-176591-B-5-A				
Operator ID:	JZ/JG	Instrument ID:	CHHPLC_X5		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	20-May-2023 11:53:06	Calib Date:	29-Apr-2023 04:18:01		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1663				

First Level Reviewer: LV5D Date: 20-May-2023 11:51:44

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1920	95.99

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-176591-1

SDG No.:

Client Sample ID: WBGmw-018-230401-GW | Lab Sample ID: 280-176591-6

Matrix: Water | Lab File ID: 05180029.D

Analysis Method: 8330B | Date Collected: 05/16/2023 09:39

Extraction Method: 3535 | Date Extracted: 05/18/2023 13:20

Sample wt/vol: 472.5(mL) | Date Analyzed: 05/19/2023 05:02

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.: 613045 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.21	U	0.22	0.21	0.089
99-65-0	1,3-Dinitrobenzene	0.11	U M	0.12	0.11	0.039
118-96-7	2,4,6-Trinitrotoluene	0.11	U M	0.12	0.11	0.048
121-14-2	2,4-Dinitrotoluene	0.085	U	0.11	0.085	0.029
59229-75-3	2,6-diamino-4-nitrotoluene	0.95	U	1.1	0.95	0.23
606-20-2	2,6-Dinitrotoluene	0.085	U	0.11	0.085	0.042
35572-78-2	2-Amino-4,6-dinitrotoluene	0.11	U	0.12	0.11	0.054
88-72-2	2-Nitrotoluene	0.21	U	0.22	0.21	0.090
618-87-1	3,5-Dinitroaniline	0.32	U M	0.42	0.32	0.14
99-08-1	3-Nitrotoluene	0.37	U Q M	0.42	0.37	0.21
19406-51-0	4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.061
99-99-0	4-Nitrotoluene	0.42	U	0.43	0.42	0.11
80251-29-2	DNX	0.26	U	0.53	0.26	0.10
2691-41-0	HMX	0.21	U	0.22	0.21	0.093
5755-27-1	MNX	0.31	U M	0.53	0.31	0.098
98-95-3	Nitrobenzene	0.21	U M	0.22	0.21	0.096
55-63-0	Nitroglycerin	2.1	U M	2.2	2.1	0.97
78-11-5	PETN	1.1	U M	1.2	1.1	0.47
121-82-4	RDX	0.12	J J1	0.22	0.21	0.054
13980-04-6	TNX	0.26	U M	0.53	0.26	0.084

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	113	M	83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180029.D
Lims ID: 280-176591-B-6-A
Client ID: WBGmw-018-230401-GW
Sample Type: Client
Inject. Date: 19-May-2023 05:02:18 ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-176591-B-6-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:58 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 12:09:37

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 TNX	1	6.391	6.426	-0.035	1160	0.005868	M
	2 2,6-diamino-4-nitrotoluene	1		6.431			ND	
	4 HMX	1		6.546			ND	
	5 2,4-diamino-6-nitrotoluene	1	6.604	6.618	-0.014	15345	0.1048	M
	6 DNX	1		6.753			ND	
	7 MNX	1		7.180			ND	U
	8 RDX	1	7.557	7.560	-0.003	1189	0.0112	
$	10 1,2-Dinitrobenzene	1	8.517	8.513	0.004	28530	0.2259	M
	11 1,3,5-Trinitrobenzene	1		8.640			ND	
	12 1,3-Dinitrobenzene	1		9.253			ND	U
	13 Nitrobenzene	1		9.626			ND	U
	14 3,5-Dinitroaniline	1		9.859			ND	U
	15 Tetryl	1	9.990	9.986	0.004	1316	0.008018	
	16 Nitroglycerin	2		10.439			ND	U
	17 2,4,6-Trinitrotoluene	1		10.873			ND	U
	18 4-Amino-2,6-dinitrotoluene	1		11.066			ND	
	19 2-Amino-4,6-dinitrotoluene	1		11.319			ND	
	20 2,6-Dinitrotoluene	1		11.473			ND	
	21 2,4-Dinitrotoluene	1		11.639			ND	
	22 o-Nitrotoluene	1		12.459			ND	
	23 p-Nitrotoluene	1		12.873			ND	
	24 m-Nitrotoluene	1		13.446			ND	U
	25 PETN	2		14.599			ND	U

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated
U - Marked Undetected

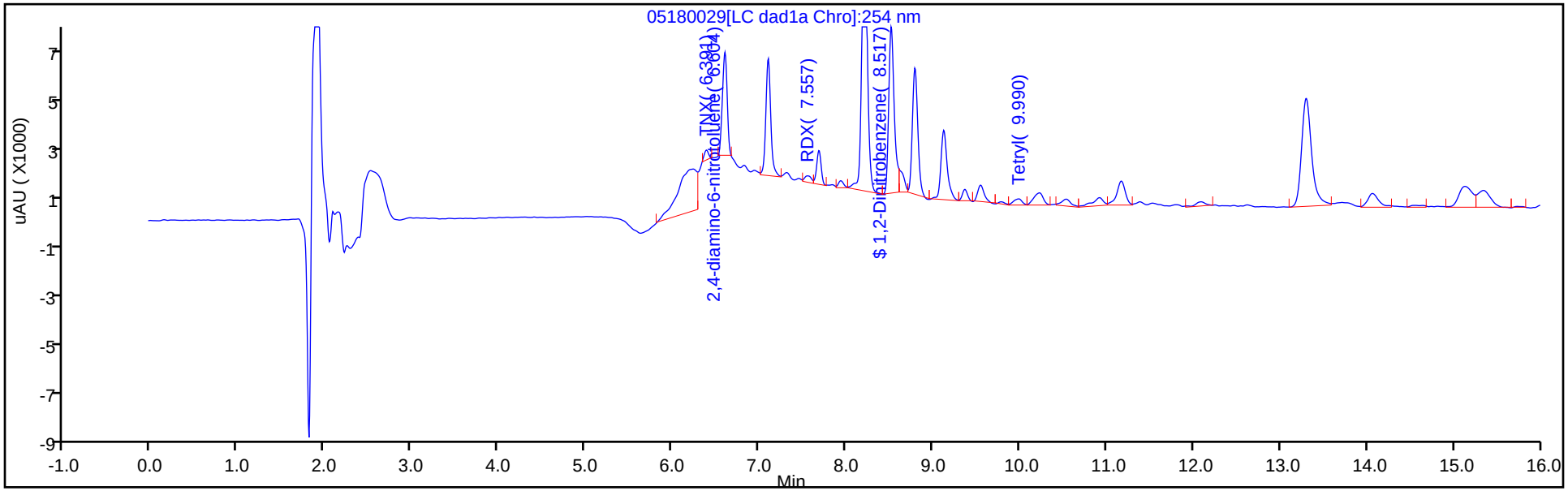
Report Date: 19-May-2023 12:22:02 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

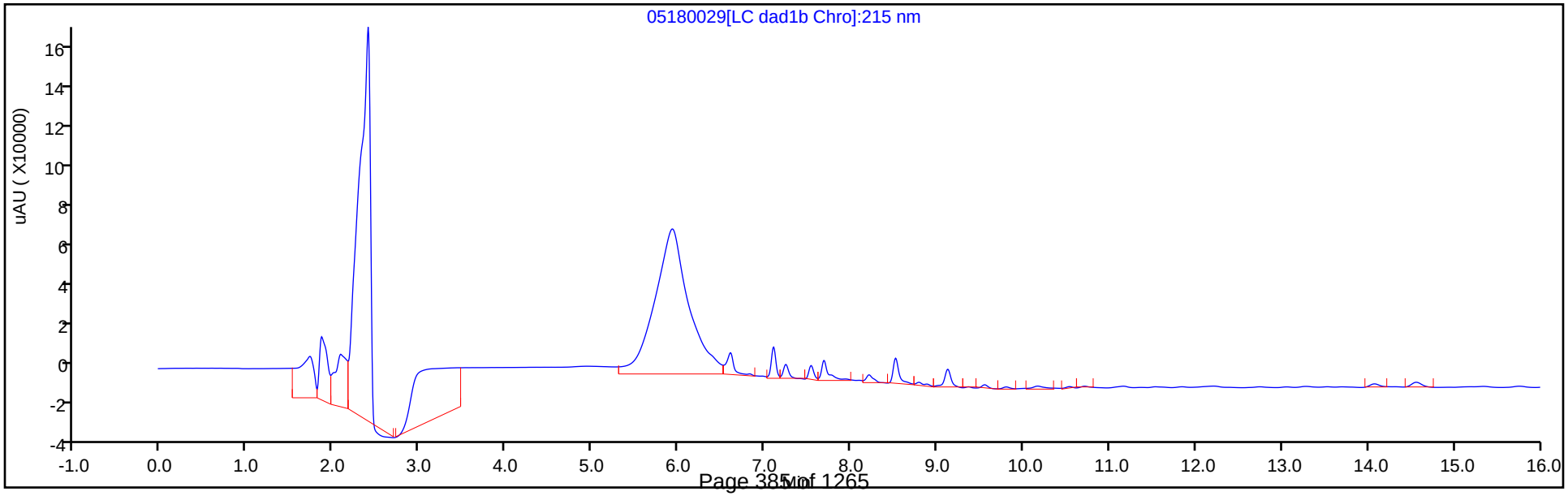
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180029.d

Injection Date:	19-May-2023 05:02:18	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	280-176591-B-6-A	Lab Sample ID:	280-176591-6	Worklist Smp#:	29
Client ID:	WBGmw-018-230401-GW				
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



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180029.D
Lims ID: 280-176591-B-6-A
Client ID: WBGmw-018-230401-GW
Sample Type: Client
Inject. Date: 19-May-2023 05:02:18 ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-176591-B-6-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:58 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 12:09:37

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2259	112.94

Manual Integration/User Assign Peak Report

Eurofins Denver

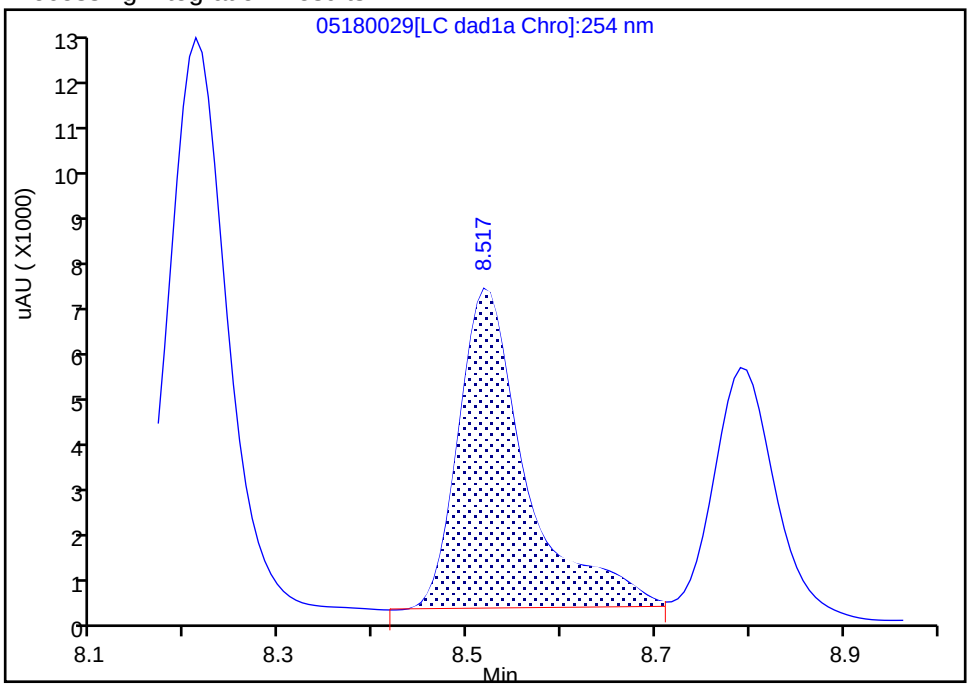
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180029.d				
Injection Date:	19-May-2023 05:02:18	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-B-6-A	Lab Sample ID:	280-176591-6		
Client ID:	WBGmw-018-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	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		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

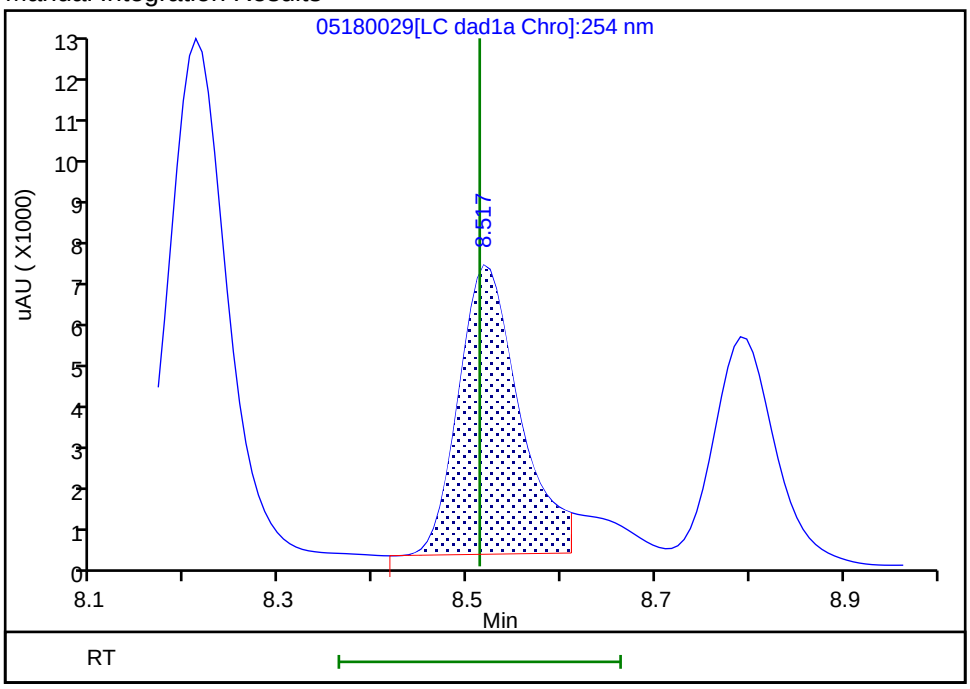
Processing Integration Results

RT: 8.52
Area: 31917
Amount: 0.252690
Amount Units: ug/mL



Manual Integration Results

RT: 8.52
Area: 28530
Amount: 0.225875
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 12:09:22 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

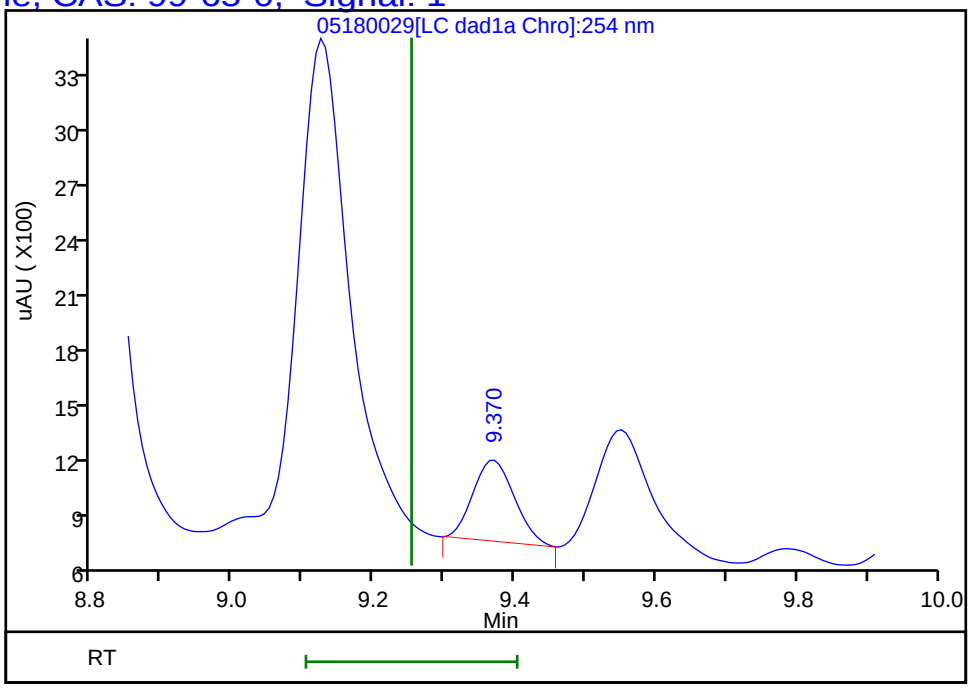
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180029.d				
Injection Date:	19-May-2023 05:02:18	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-B-6-A	Lab Sample ID:	280-176591-6		
Client ID:	WBGmw-018-230401-GW				
Operator ID:	JZ/JG	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		

12 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.37
Response: 1779
Amount: 0.006043



Reviewer: LV5D, 19-May-2023 12:09:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

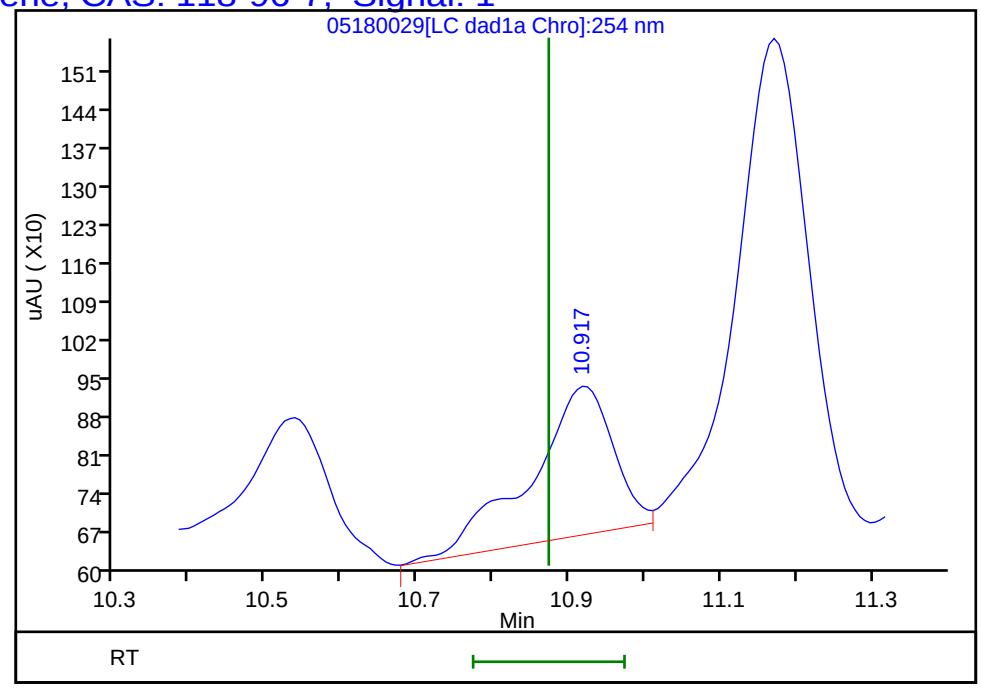
Eurofins Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180029.d
Injection Date: 19-May-2023 05:02:18 Instrument ID: CHHPLC_X3
Lims ID: 280-176591-B-6-A Lab Sample ID: 280-176591-6
Client ID: WBGmw-018-230401-GW
Operator ID: JZ/JG 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

17 2,4,6-Trinitrotoluene, CAS: 118-96-7, Signal: 1

RT: 10.92
Response: 2034
Amount: 0.009638



Reviewer: LV5D, 19-May-2023 12:09:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Denver

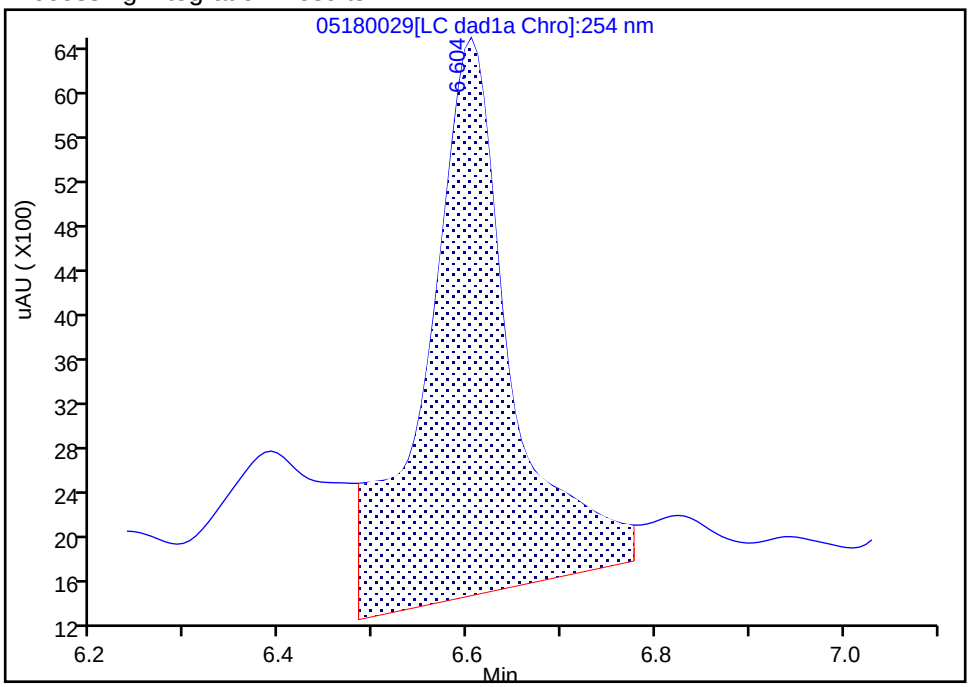
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180029.d				
Injection Date:	19-May-2023 05:02:18	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-B-6-A	Lab Sample ID:	280-176591-6		
Client ID:	WBGmw-018-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	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		

5 2,4-diamino-6-nitrotoluene, CAS: 6629-29-4

Signal: 1

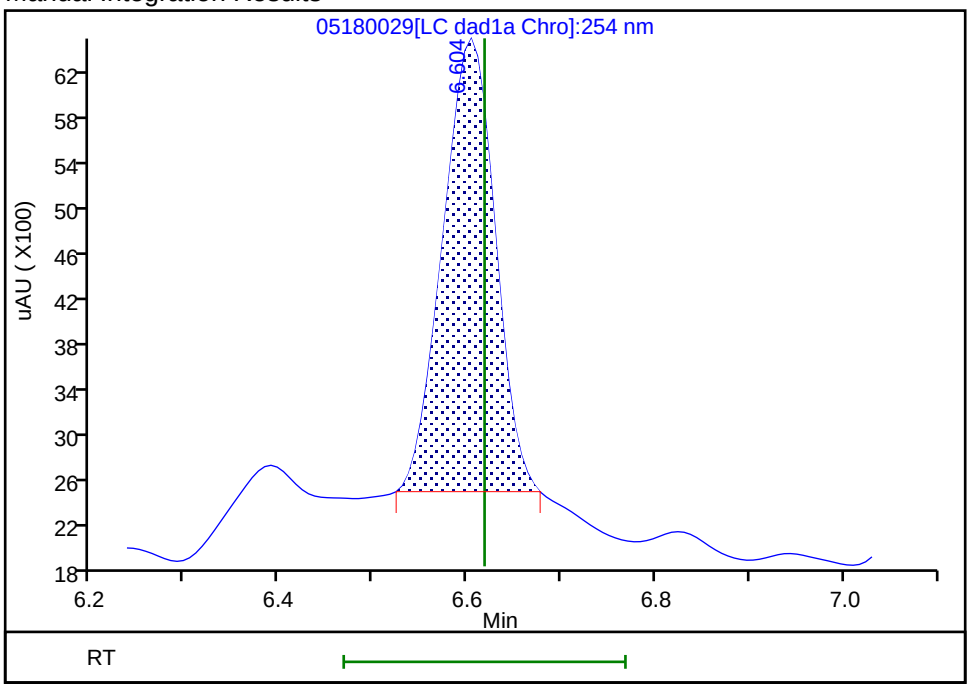
Processing Integration Results

RT: 6.60
Area: 31795
Amount: 0.217072
Amount Units: ug/mL



Manual Integration Results

RT: 6.60
Area: 15345
Amount: 0.104764
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 12:09:11 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

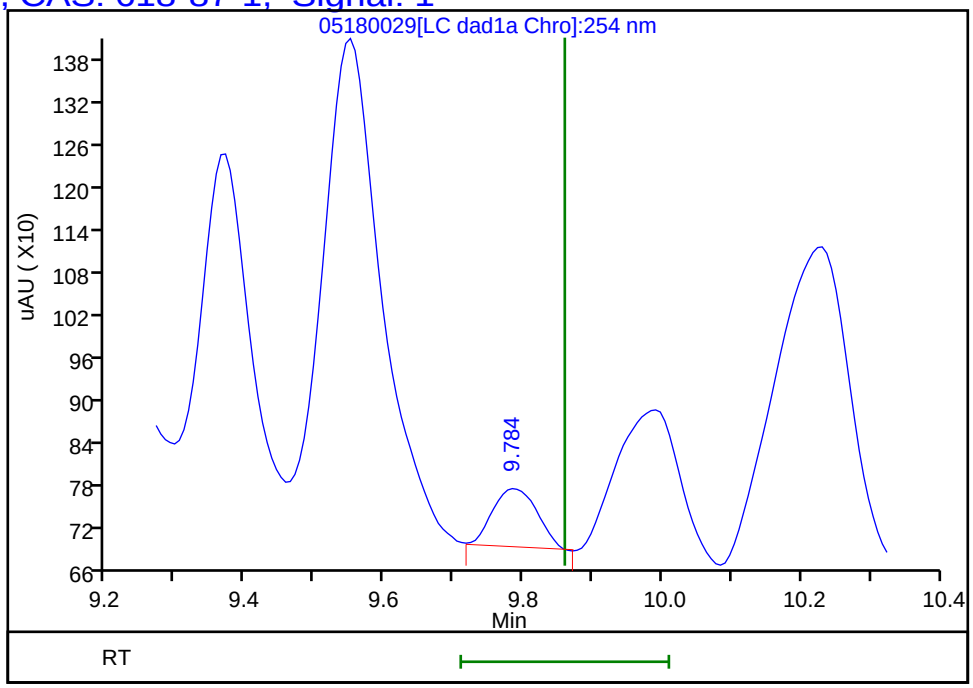
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180029.d				
Injection Date:	19-May-2023 05:02:18	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-B-6-A	Lab Sample ID:	280-176591-6		
Client ID:	WBGmw-018-230401-GW				
Operator ID:	JZ/JG	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		

14 3,5-Dinitroaniline, CAS: 618-87-1, Signal: 1

RT: 9.78
Response: 364
Amount: 0.002261



Reviewer: LV5D, 19-May-2023 12:09:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

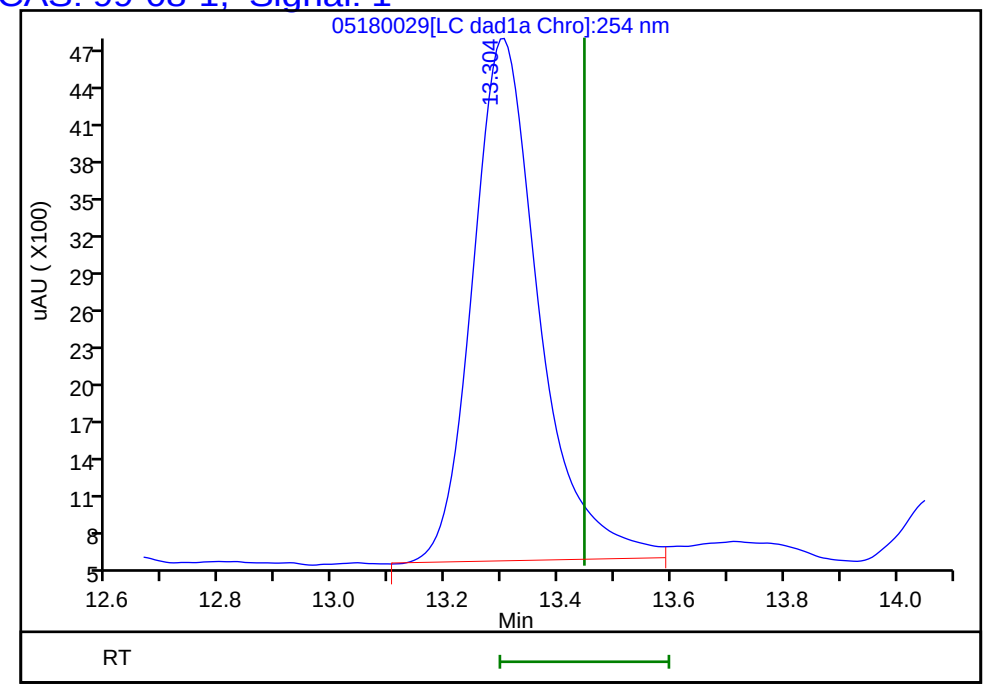
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180029.d				
Injection Date:	19-May-2023 05:02:18	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-B-6-A	Lab Sample ID:	280-176591-6		
Client ID:	WBGmw-018-230401-GW				
Operator ID:	JZ/JG	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		

24 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 13.30
Response: 33913
Amount: 0.241387



Reviewer: LV5D, 19-May-2023 12:09:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

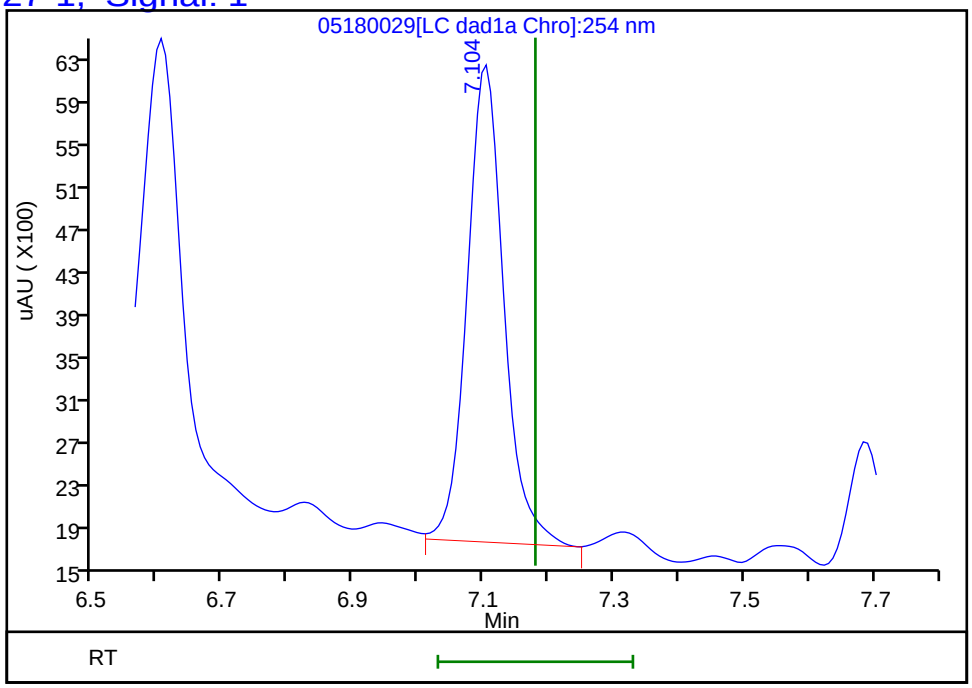
Eurofins Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180029.d
Injection Date: 19-May-2023 05:02:18 Instrument ID: CHHPLC_X3
Lims ID: 280-176591-B-6-A Lab Sample ID: 280-176591-6
Client ID: WBGmw-018-230401-GW
Operator ID: JZ/JG 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

7 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.10
Response: 17481
Amount: 0.133268



Reviewer: LV5D, 19-May-2023 12:09:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

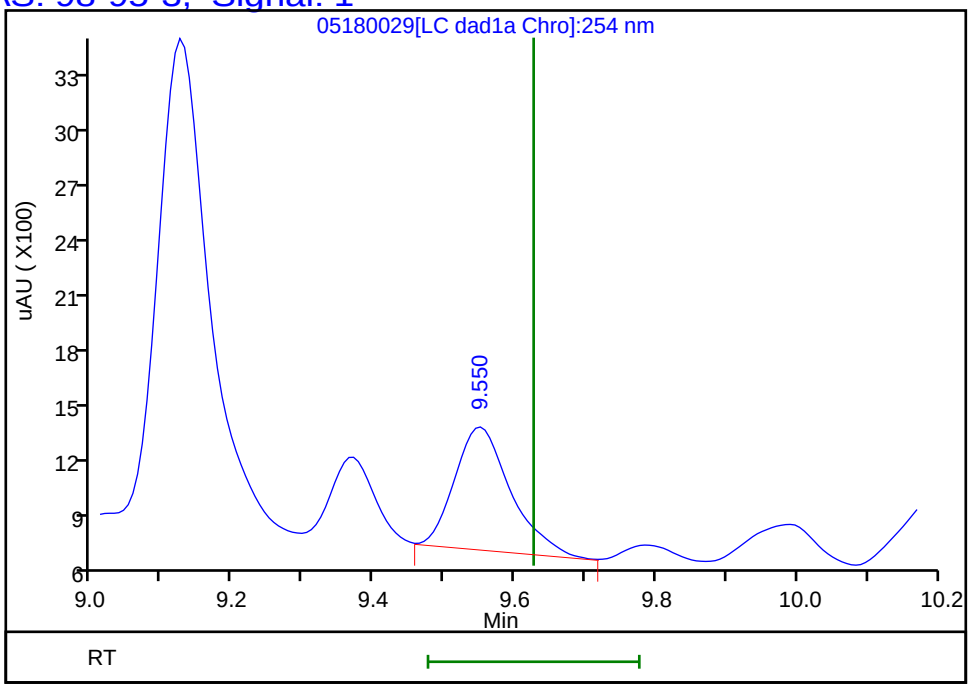
Eurofins Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180029.d
Injection Date: 19-May-2023 05:02:18 Instrument ID: CHHPLC_X3
Lims ID: 280-176591-B-6-A Lab Sample ID: 280-176591-6
Client ID: WBGmw-018-230401-GW
Operator ID: JZ/JG 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

13 Nitrobenzene, CAS: 98-95-3, Signal: 1

RT: 9.55
Response: 3613
Amount: 0.018892



Reviewer: LV5D, 19-May-2023 12:09:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Denver

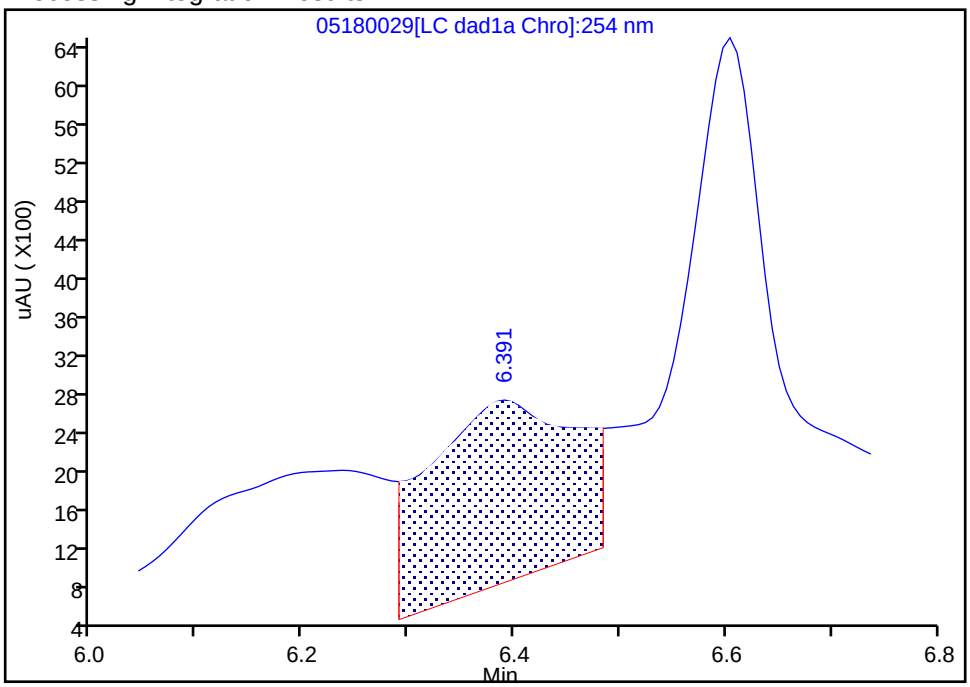
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180029.d				
Injection Date:	19-May-2023 05:02:18	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-B-6-A	Lab Sample ID:	280-176591-6		
Client ID:	WBGmw-018-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	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		

3 TNX, CAS: 13980-04-6

Signal: 1

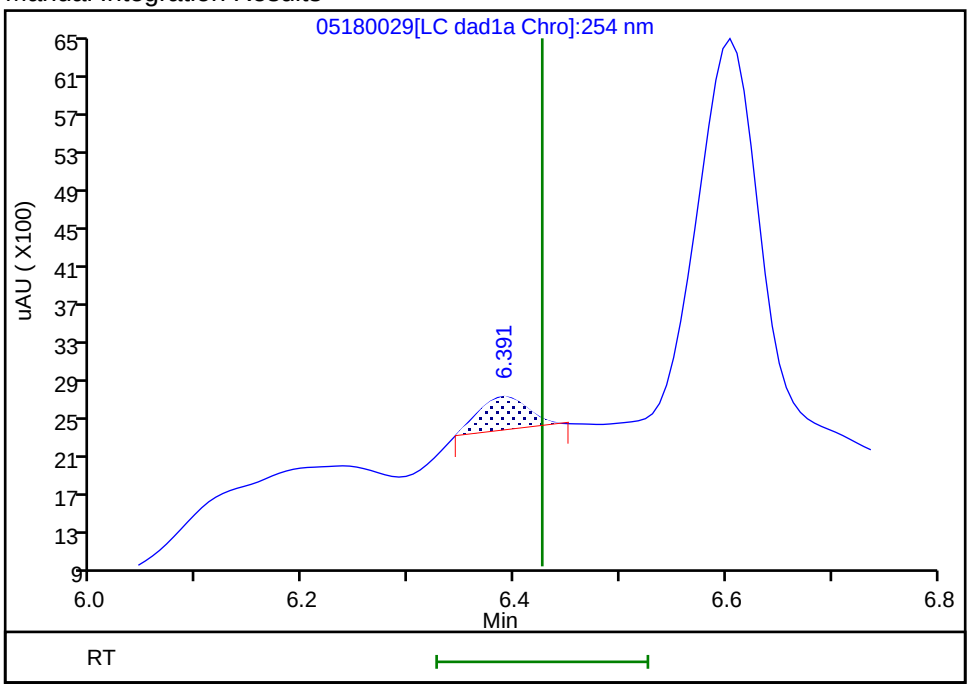
Processing Integration Results

RT: 6.39
Area: 18182
Amount: 0.091974
Amount Units: ug/mL



Manual Integration Results

RT: 6.39
Area: 1160
Amount: 0.005868
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 12:09:08 -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.: 280-176591-1

SDG No.:

Client Sample ID: WBGmw-018-230401-GW | Lab Sample ID: 280-176591-6

Matrix: Water | Lab File ID: 05190021.D

Analysis Method: 8330B | Date Collected: 05/16/2023 09:39

Extraction Method: 3535 | Date Extracted: 05/18/2023 13:20

Sample wt/vol: 472.5(mL) | Date Analyzed: 05/20/2023 00:18

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.: 613172 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
6629-29-4	2,4-diamino-6-nitrotoluene	0.95	U	1.1	0.95	0.46
121-82-4	*RDX*	*2.0*	*J1*	*0.22*	0.21	*0.054*
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	118		83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190021.D
Lims ID: 280-176591-B-6-A
Client ID: WBGmw-018-230401-GW
Sample Type: Client
Inject. Date: 20-May-2023 00:18:01 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-176591-B-6-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X5

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 20-May-2023 11:53:11 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1663

First Level Reviewer: LV5D Date: 20-May-2023 11:52:35

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1	2,6-diamino-4-nitrotoluene	1	4.170	4.214	-0.044	13337	0.0331	M
2	2,4-diamino-6-nitrotoluene	1		4.767			ND	
3	TNX	1		5.221			ND	U
4	DNX	1		6.067			ND	
5	HMX	1	6.737	6.707	0.030	5827	0.0269	
6	MNX	1		7.567			ND	
8	RDX	1	8.924	8.954	-0.030	40812	0.1861	
9	Nitrobenzene	1		11.454			ND	
$ 10	1,2-Dinitrobenzene	1	12.437	12.414	0.023	66003	0.2351	
11	3,5-Dinitroaniline	1		14.267			ND	7
12	1,3-Dinitrobenzene	1		14.534			ND	7
13	Nitroglycerin	2		15.054			ND	7
14	o-Nitrotoluene	1		15.607			ND	
16	p-Nitrotoluene	1		15.834			ND	
17	4-Amino-2,6-dinitrotoluene	1	16.430	16.380	0.050	5175	0.0176	
18	m-Nitrotoluene	1		16.680			ND	
19	2-Amino-4,6-dinitrotoluene	1		17.214			ND	
20	1,3,5-Trinitrobenzene	1	17.430	17.340	0.090	12484	0.0308	
21	2,6-Dinitrotoluene	1	18.457	18.487	-0.030	9302	0.0319	M
22	2,4-Dinitrotoluene	1		18.940			ND	
23	Tetryl	1		22.214			ND	
24	2,4,6-Trinitrotoluene	1		23.014			ND	
25	PETN	2		24.261			ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
M - Manually Integrated
U - Marked Undetected

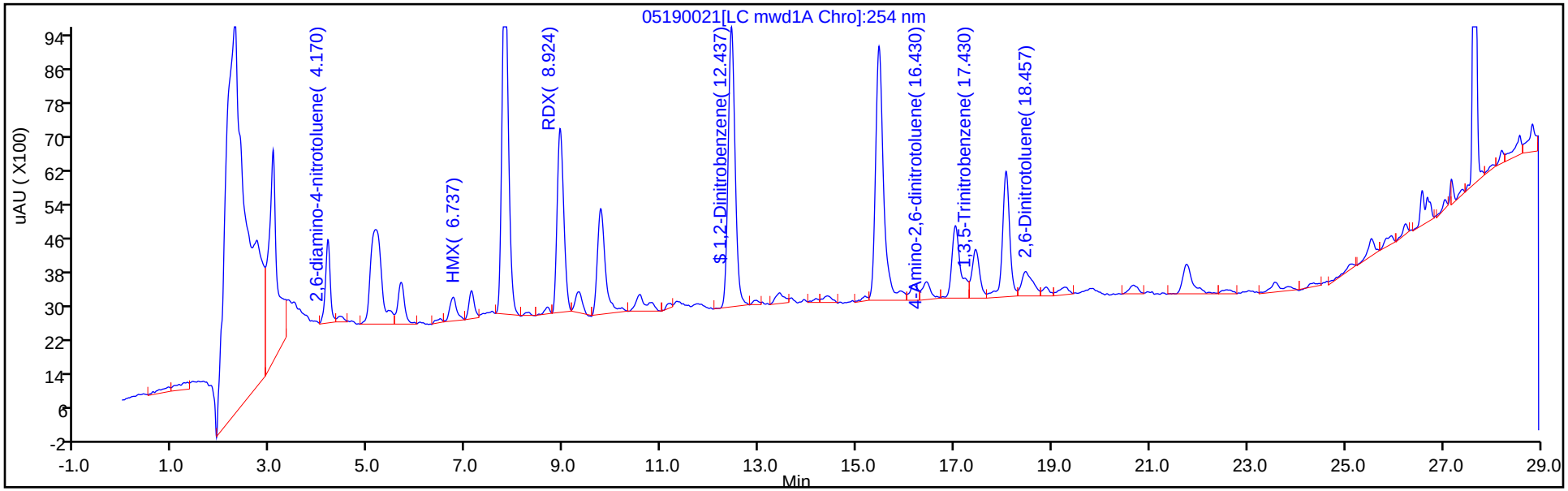
Report Date: 20-May-2023 11:53:12 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

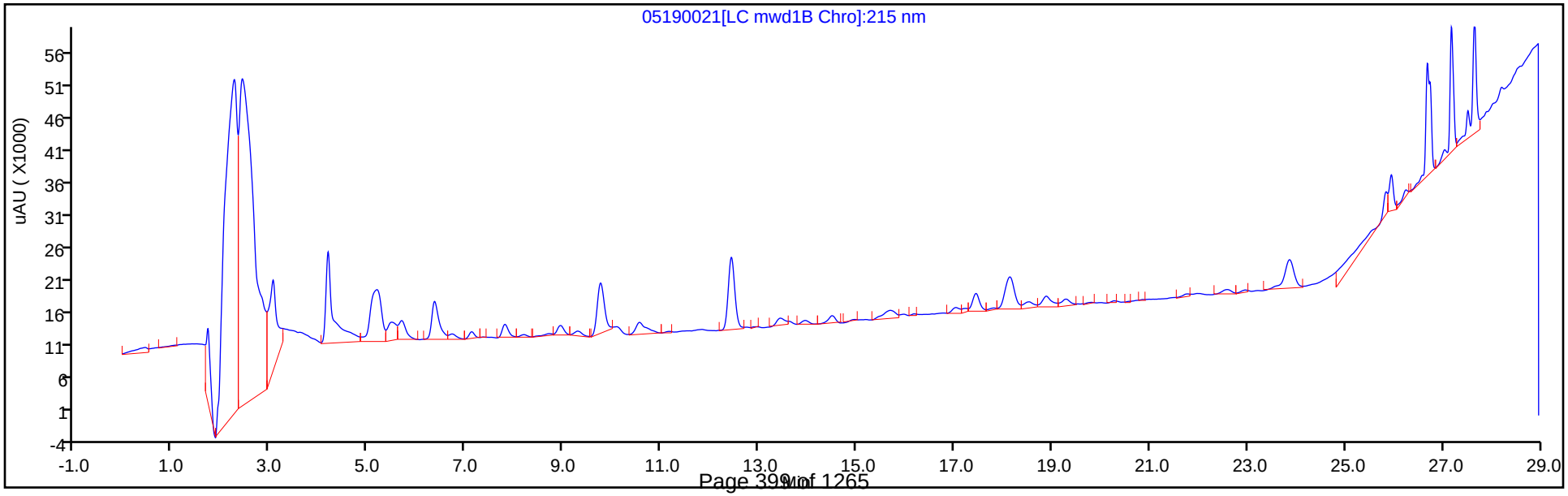
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190021.D

Injection Date:	20-May-2023 00:18:01	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	280-176591-B-6-A	Lab Sample ID:	280-176591-6	Worklist Smp#:	21
Client ID:	WBGmw-018-230401-GW				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
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



Report Date: 20-May-2023 11:53:12 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190021.D				
Lims ID:	280-176591-B-6-A				
Client ID:	WBGmw-018-230401-GW				
Sample Type:	Client				
Inject. Date:	20-May-2023 00:18:01	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-176591-B-6-A				
Operator ID:	JZ/JG	Instrument ID:	CHHPLC_X5		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	20-May-2023 11:53:11	Calib Date:	29-Apr-2023 04:18:01		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1663				
First Level Reviewer: LV5D		Date:	20-May-2023 11:52:35		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2351	117.57

Manual Integration/User Assign Peak Report

Eurofins Denver

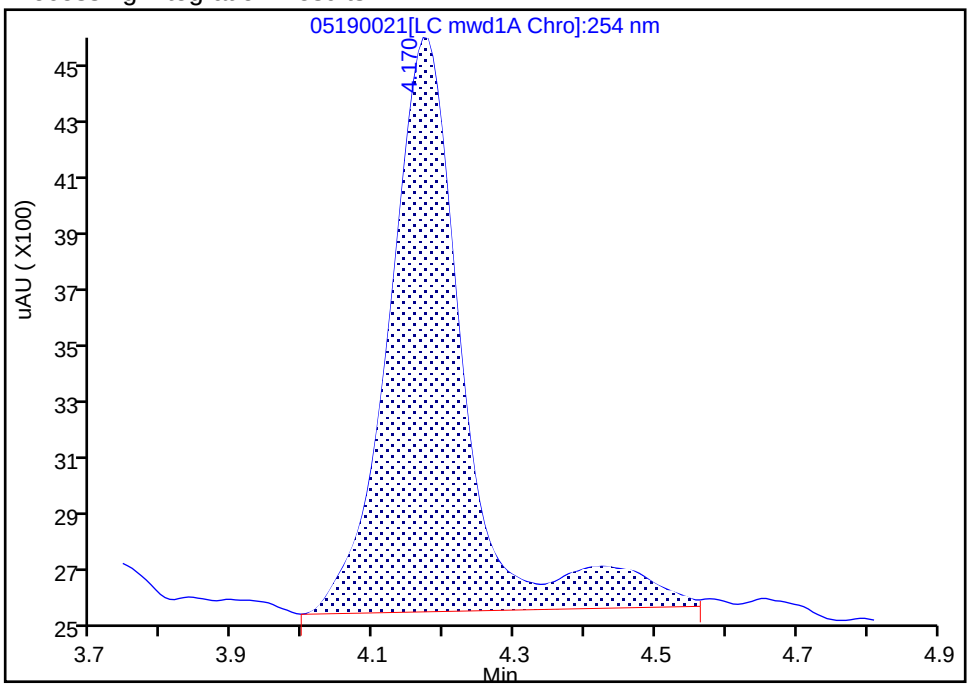
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190021.D				
Injection Date:	20-May-2023 00:18:01	Instrument ID:	CHHPLC_X5		
Lims ID:	280-176591-B-6-A	Lab Sample ID:	280-176591-6		
Client ID:	WBGmw-018-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	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		

1 2,6-diamino-4-nitrotoluene, CAS: 59229-75-3

Signal: 1

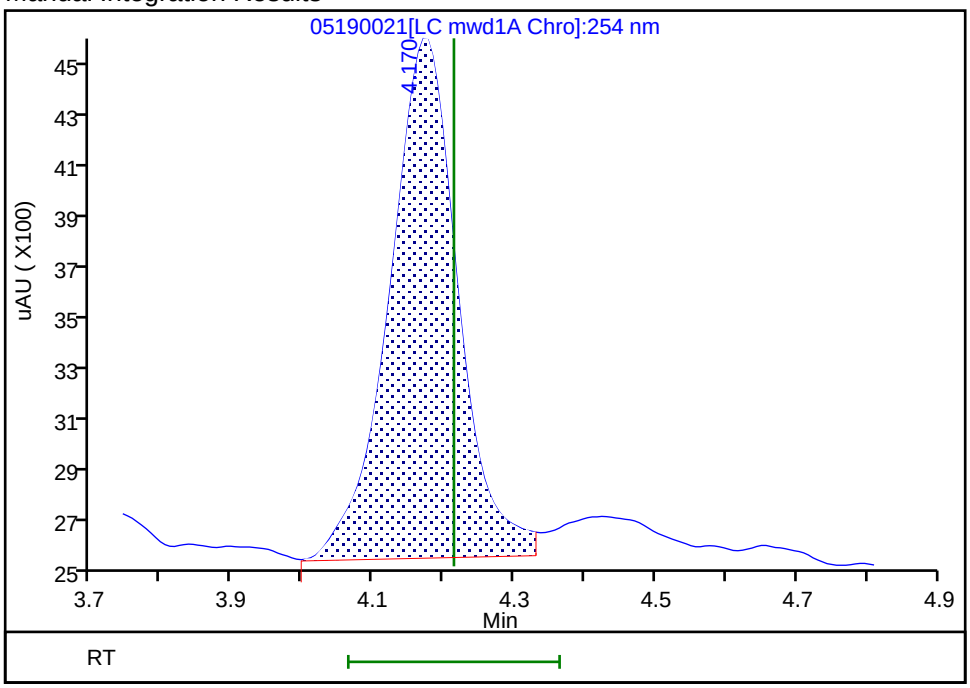
Processing Integration Results

RT: 4.17
Area: 14765
Amount: 0.036610
Amount Units: ug/ml



Manual Integration Results

RT: 4.17
Area: 13337
Amount: 0.033070
Amount Units: ug/ml



Reviewer: LV5D, 20-May-2023 11:52:34 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

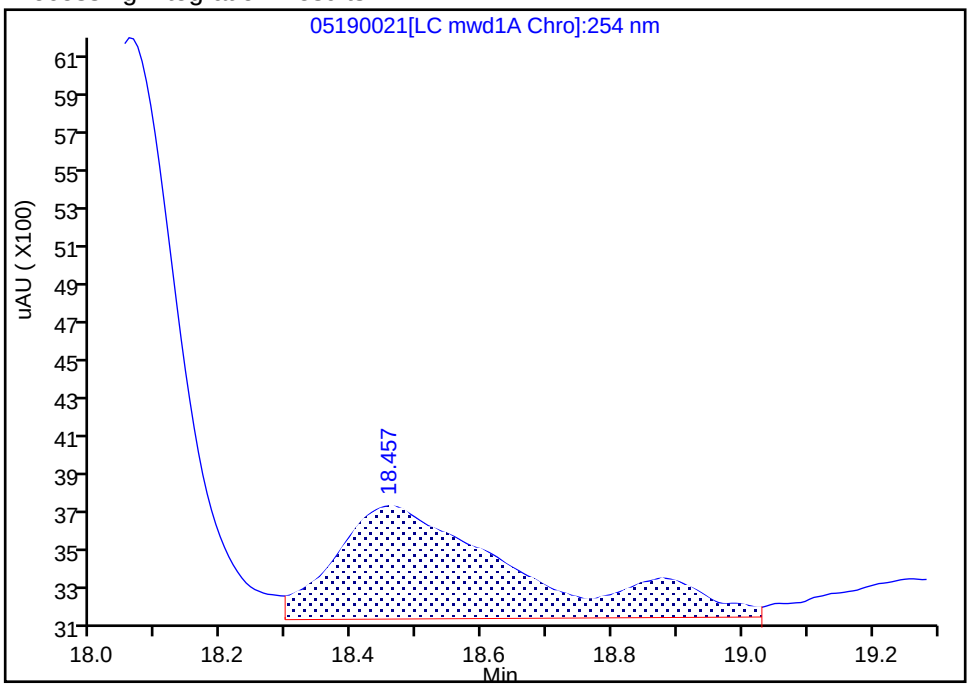
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190021.D				
Injection Date:	20-May-2023 00:18:01	Instrument ID:	CHHPLC_X5		
Lims ID:	280-176591-B-6-A	Lab Sample ID:	280-176591-6		
Client ID:	WBGmw-018-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	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		

21 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

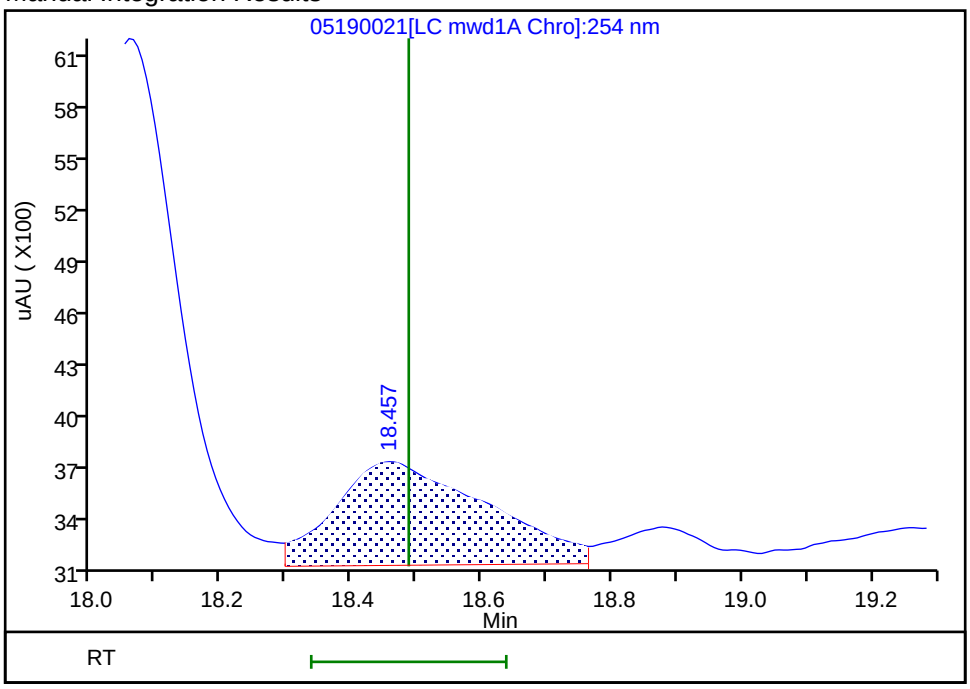
Processing Integration Results

RT: 18.46
Area: 11308
Amount: 0.038769
Amount Units: ug/ml



Manual Integration Results

RT: 18.46
Area: 9302
Amount: 0.031892
Amount Units: ug/ml



Reviewer: LV5D, 20-May-2023 11:52:21 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

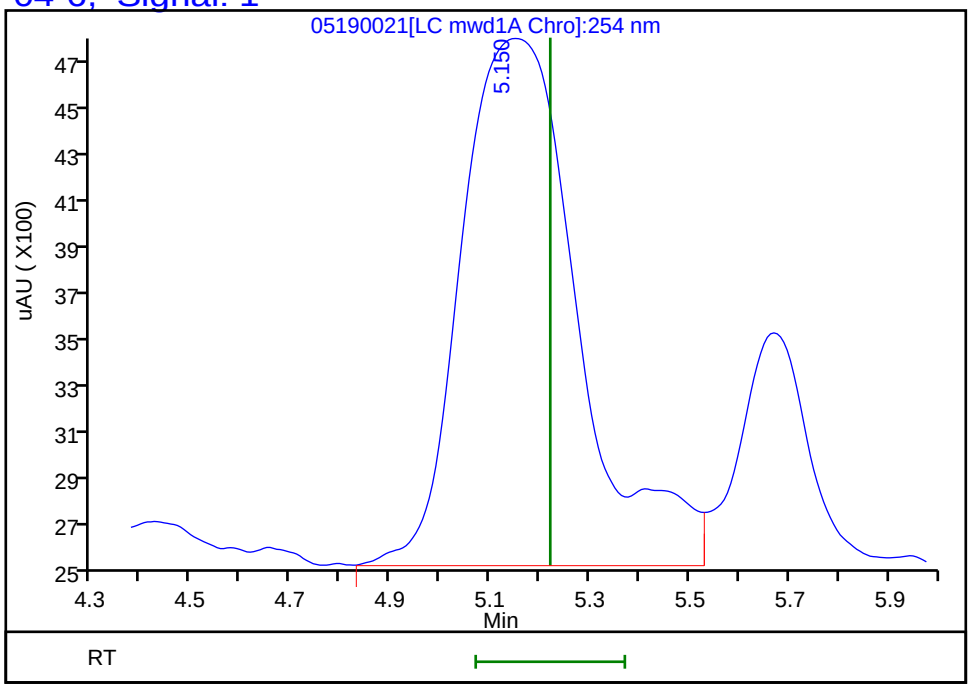
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190021.D				
Injection Date:	20-May-2023 00:18:01	Instrument ID:	CHHPLC_X5		
Lims ID:	280-176591-B-6-A	Lab Sample ID:	280-176591-6		
Client ID:	WBGmw-018-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	21	Worklist Smp#:	21
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		

3 TNX, CAS: 13980-04-6, Signal: 1

RT: 5.15
Response: 36213
Amount: 0.091834



Reviewer: LV5D, 20-May-2023 11:52:35
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-176591-1

SDG No.:

Client Sample ID: WBGMW-RBmw-018-2023 | Lab Sample ID: 280-176591-7

Matrix: Water | Lab File ID: 05180030.D

Analysis Method: 8330B | Date Collected: 05/16/2023 14:00

Extraction Method: 3535 | Date Extracted: 05/18/2023 13:20

Sample wt/vol: 509.8(mL) | Date Analyzed: 05/19/2023 05:25

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.: 613045 | 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	0.082
99-65-0	1,3-Dinitrobenzene	0.098	U	0.11	0.098	0.036
118-96-7	2,4,6-Trinitrotoluene	0.098	U	0.11	0.098	0.044
6629-29-4	2,4-diamino-6-nitrotoluene	0.88	U	0.98	0.88	0.43
121-14-2	2,4-Dinitrotoluene	0.078	U	0.098	0.078	0.027
59229-75-3	2,6-diamino-4-nitrotoluene	0.88	U	0.98	0.88	0.22
606-20-2	2,6-Dinitrotoluene	0.078	U	0.098	0.078	0.039
35572-78-2	2-Amino-4,6-dinitrotoluene	0.098	U	0.11	0.098	0.050
88-72-2	2-Nitrotoluene	0.20	U	0.21	0.20	0.084
618-87-1	3,5-Dinitroaniline	0.29	U	0.39	0.29	0.13
99-08-1	3-Nitrotoluene	0.34	U Q	0.39	0.34	0.19
19406-51-0	4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.057
99-99-0	4-Nitrotoluene	0.39	U	0.40	0.39	0.098
80251-29-2	DNX	0.25	U	0.49	0.25	0.095
2691-41-0	HMX	0.20	U	0.21	0.20	0.086
5755-27-1	MNX	0.28	U	0.49	0.28	0.091
98-95-3	Nitrobenzene	0.20	U	0.21	0.20	0.089
55-63-0	Nitroglycerin	2.0	U	2.1	2.0	0.90
78-11-5	PETN	0.98	U	1.1	0.98	0.44
121-82-4	RDX	0.13	J M	0.21	0.20	0.051
479-45-8	Tetryl	0.098	U	0.11	0.098	0.031
13980-04-6	TNX	0.25	U	0.49	0.25	0.078

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\20230518-121611.b\05180030.D
Lims ID: 280-176591-A-7-A
Client ID: WBGMW-RBmw-018-2023
Sample Type: Client
Inject. Date: 19-May-2023 05:25:13 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-176591-A-7-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:58 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 12:09:50

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 TNX	1		6.426			ND	M
	2 2,6-diamino-4-nitrotoluene	1		6.431			ND	
	4 HMX	1		6.546			ND	
	5 2,4-diamino-6-nitrotoluene	1		6.618			ND	
	6 DNX	1		6.753			ND	
	7 MNX	1		7.180			ND	
	8 RDX	1	7.560	7.560	0.000	1423	0.0134	M
$	10 1,2-Dinitrobenzene	1	8.520	8.513	0.007	25347	0.2007	M
	11 1,3,5-Trinitrobenzene	1		8.640			ND	
	12 1,3-Dinitrobenzene	1		9.253			ND	
	13 Nitrobenzene	1		9.626			ND	
	14 3,5-Dinitroaniline	1		9.859			ND	
	15 Tetryl	1		9.986			ND	
	16 Nitroglycerin	2		10.439			ND	
	17 2,4,6-Trinitrotoluene	1		10.873			ND	
	18 4-Amino-2,6-dinitrotoluene	1		11.066			ND	
	19 2-Amino-4,6-dinitrotoluene	1		11.319			ND	
	20 2,6-Dinitrotoluene	1		11.473			ND	
	21 2,4-Dinitrotoluene	1		11.639			ND	
	22 o-Nitrotoluene	1		12.459			ND	
	23 p-Nitrotoluene	1		12.873			ND	
	24 m-Nitrotoluene	1		13.446			ND	
	25 PETN	2		14.599			ND	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

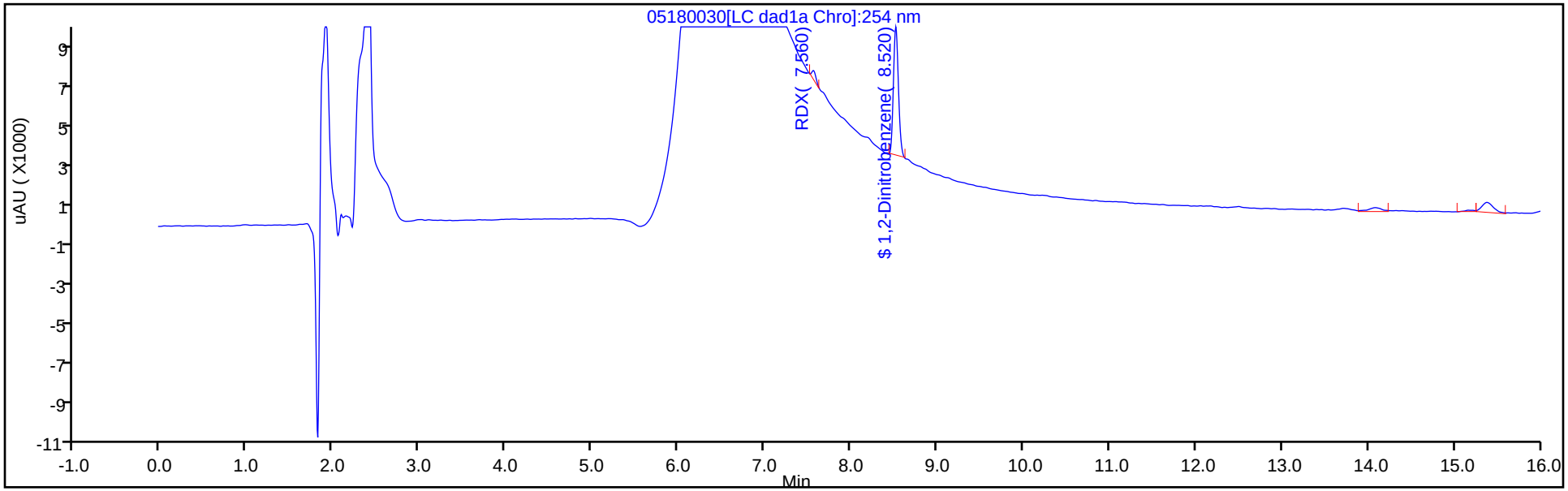
Report Date: 19-May-2023 12:22:03 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

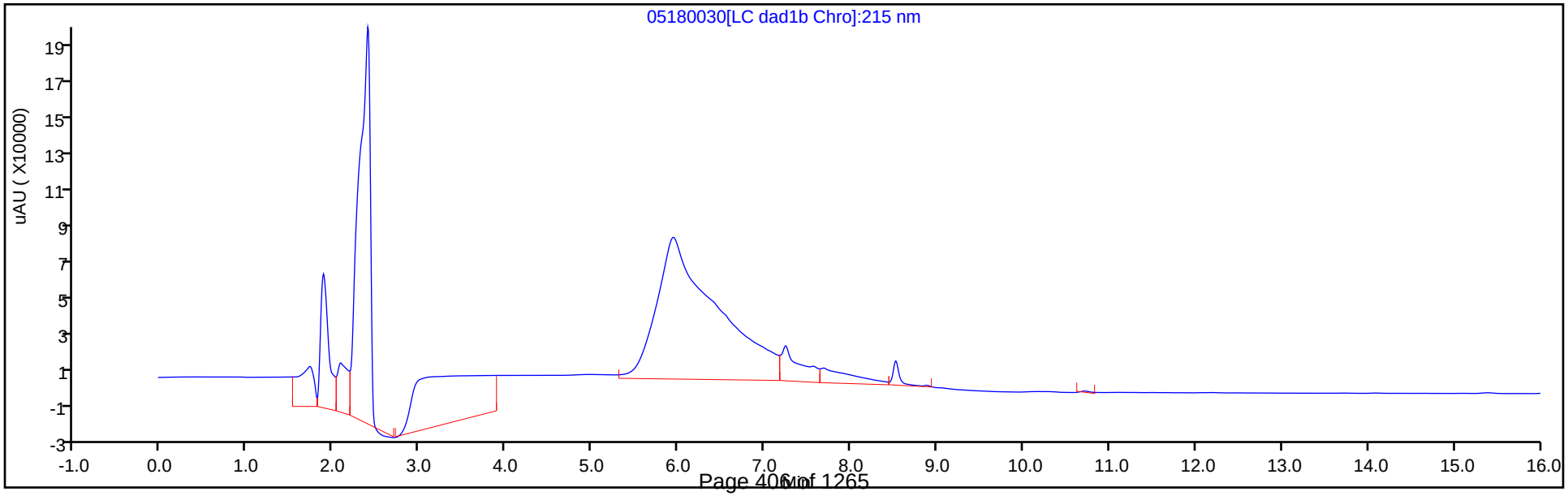
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180030.d

Injection Date:	19-May-2023 05:25:13	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	280-176591-A-7-A	Lab Sample ID:	280-176591-7	Worklist Smp#:	30
Client ID:	WBGMW-RBmw-018-2023				
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\20230518-121611.b\05180030.D
Lims ID: 280-176591-A-7-A
Client ID: WBGMW-RBmw-018-2023
Sample Type: Client
Inject. Date: 19-May-2023 05:25:13 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-176591-A-7-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:58 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 12:09:50

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2007	100.34

Manual Integration/User Assign Peak Report

Eurofins Denver

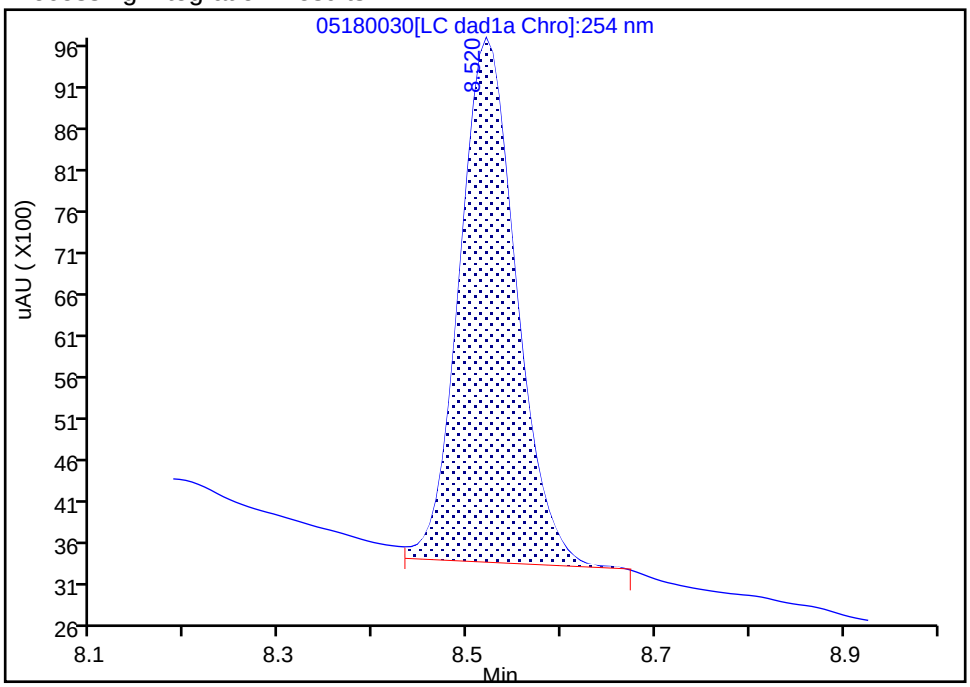
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180030.d				
Injection Date:	19-May-2023 05:25:13	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-A-7-A	Lab Sample ID:	280-176591-7		
Client ID:	WBGMW-RBmw-018-2023				
Operator ID:	JZ/JG	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	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		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

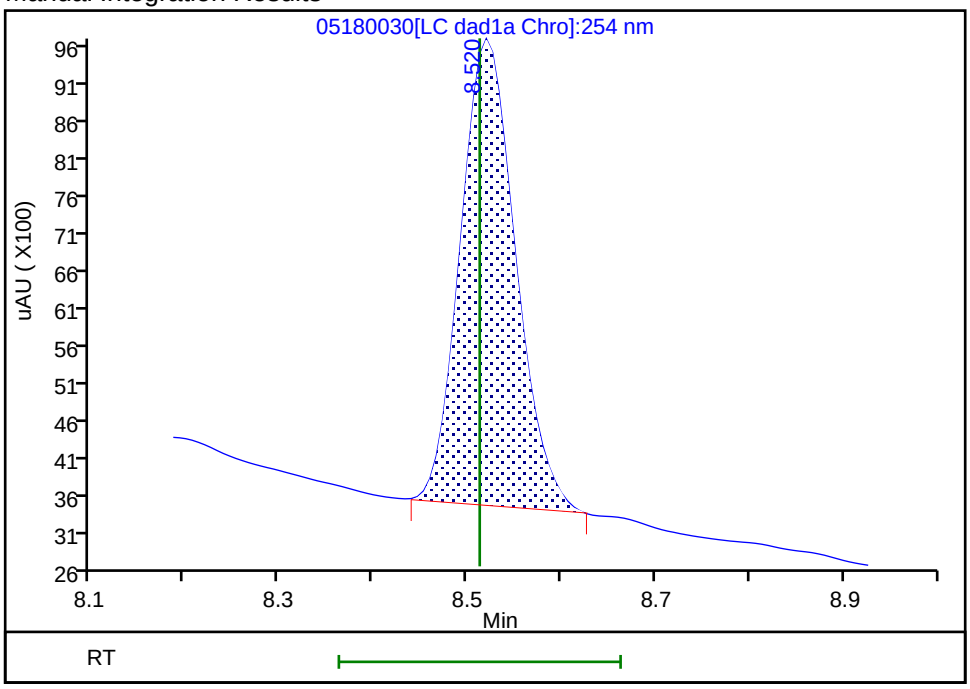
Processing Integration Results

RT: 8.52
Area: 26601
Amount: 0.210603
Amount Units: ug/mL



Manual Integration Results

RT: 8.52
Area: 25347
Amount: 0.200675
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 12:09:49 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

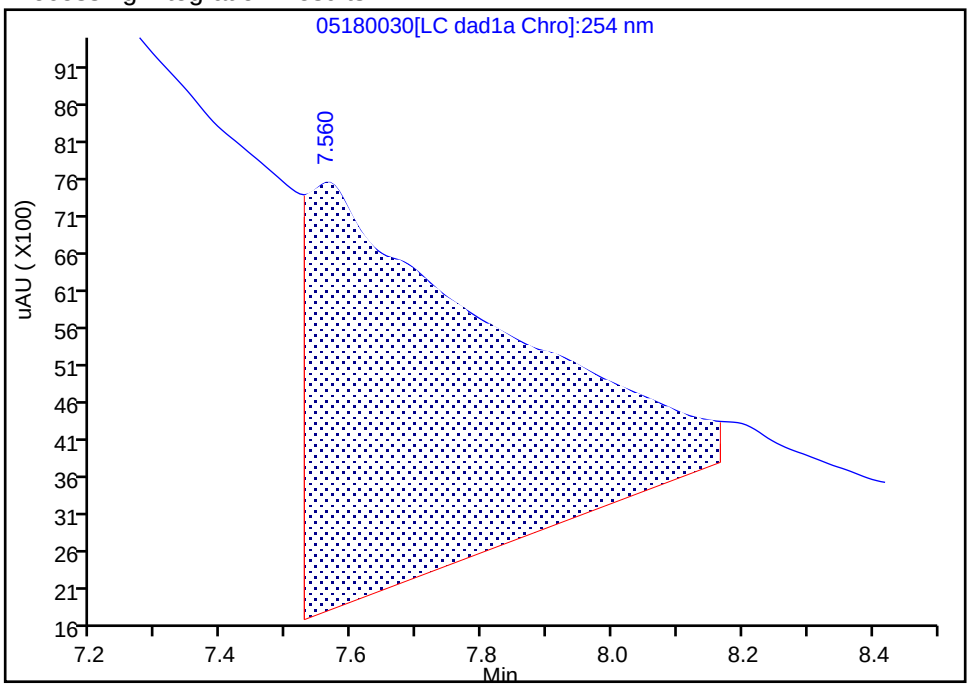
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180030.d				
Injection Date:	19-May-2023 05:25:13	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-A-7-A	Lab Sample ID:	280-176591-7		
Client ID:	WBGMW-RBmw-018-2023				
Operator ID:	JZ/JG	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	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		

8 RDX, CAS: 121-82-4

Signal: 1

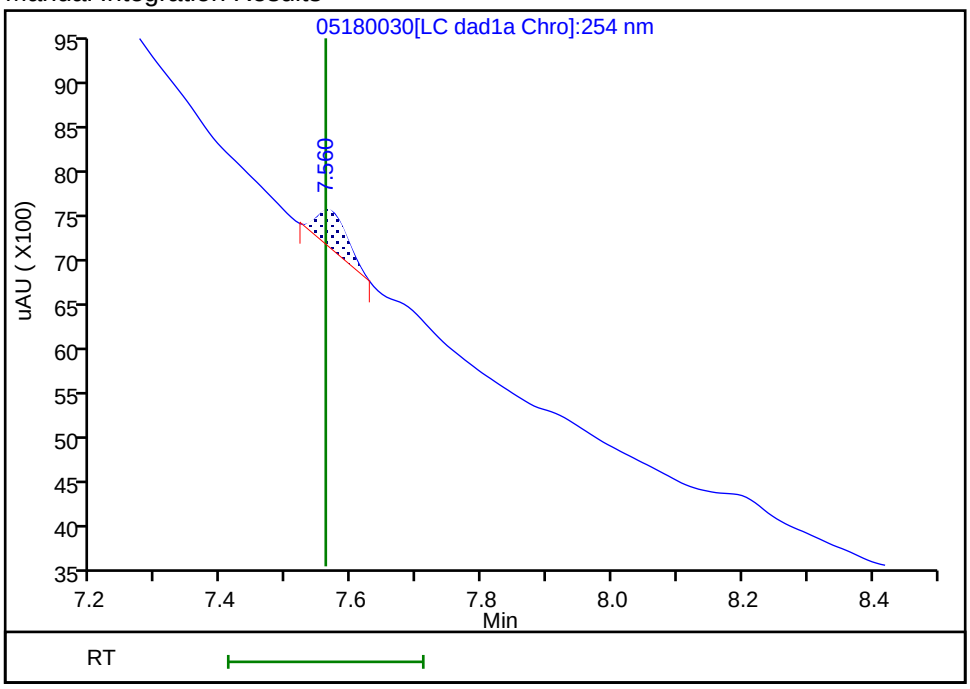
Processing Integration Results

RT: 7.56
Area: 111933
Amount: 1.052202
Amount Units: ug/mL



Manual Integration Results

RT: 7.56
Area: 1423
Amount: 0.013377
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 12:09:46 -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.: 280-176591-1

SDG No.:

Client Sample ID: WBGMW-RBmw-018-2023 | Lab Sample ID: 280-176591-7

Matrix: Water | Lab File ID: 05190022.D

Analysis Method: 8330B | Date Collected: 05/16/2023 14:00

Extraction Method: 3535 | Date Extracted: 05/18/2023 13:20

Sample wt/vol: 509.8(mL) | Date Analyzed: 05/20/2023 00:52

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.: 613172 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	94		83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190022.D
Lims ID: 280-176591-A-7-A
Client ID: WBGMW-RBmw-018-2023
Sample Type: Client
Inject. Date: 20-May-2023 00:52:57 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-176591-A-7-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X5

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 20-May-2023 11:53:11 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1663

First Level Reviewer: LV5D Date: 20-May-2023 11:52:49

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1	2,6-diamino-4-nitrotoluene	1		4.214			ND	
2	2,4-diamino-6-nitrotoluene	1		4.767			ND	
3	TNX	1		5.221			ND	
4	DNX	1		6.067			ND	
5	HMX	1	6.712	6.707	0.005	1256	0.002287	7M
6	MNX	1		7.567			ND	
8	RDX	1	8.952	8.954	-0.002	3554	0.0134	M
9	Nitrobenzene	1		11.454			ND	
$ 10	1,2-Dinitrobenzene	1	12.412	12.414	-0.002	52917	0.1885	
11	3,5-Dinitroaniline	1		14.267			ND	
12	1,3-Dinitrobenzene	1		14.534			ND	
13	Nitroglycerin	2		15.054			ND	
14	o-Nitrotoluene	1		15.607			ND	7
16	p-Nitrotoluene	1		15.834			ND	
17	4-Amino-2,6-dinitrotoluene	1		16.380			ND	
18	m-Nitrotoluene	1		16.680			ND	
19	2-Amino-4,6-dinitrotoluene	1		17.214			ND	
20	1,3,5-Trinitrobenzene	1		17.340			ND	
21	2,6-Dinitrotoluene	1		18.487			ND	
22	2,4-Dinitrotoluene	1		18.940			ND	
23	Tetryl	1		22.214			ND	
24	2,4,6-Trinitrotoluene	1		23.014			ND	
25	PETN	2		24.261			ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

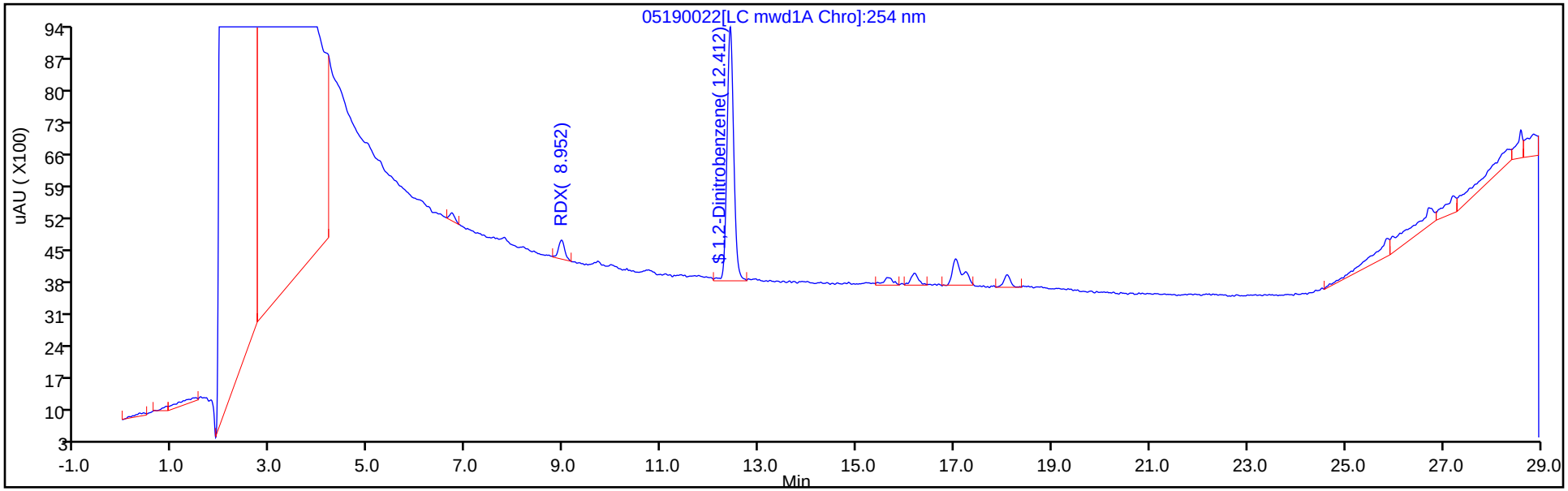
Report Date: 20-May-2023 11:53:13 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

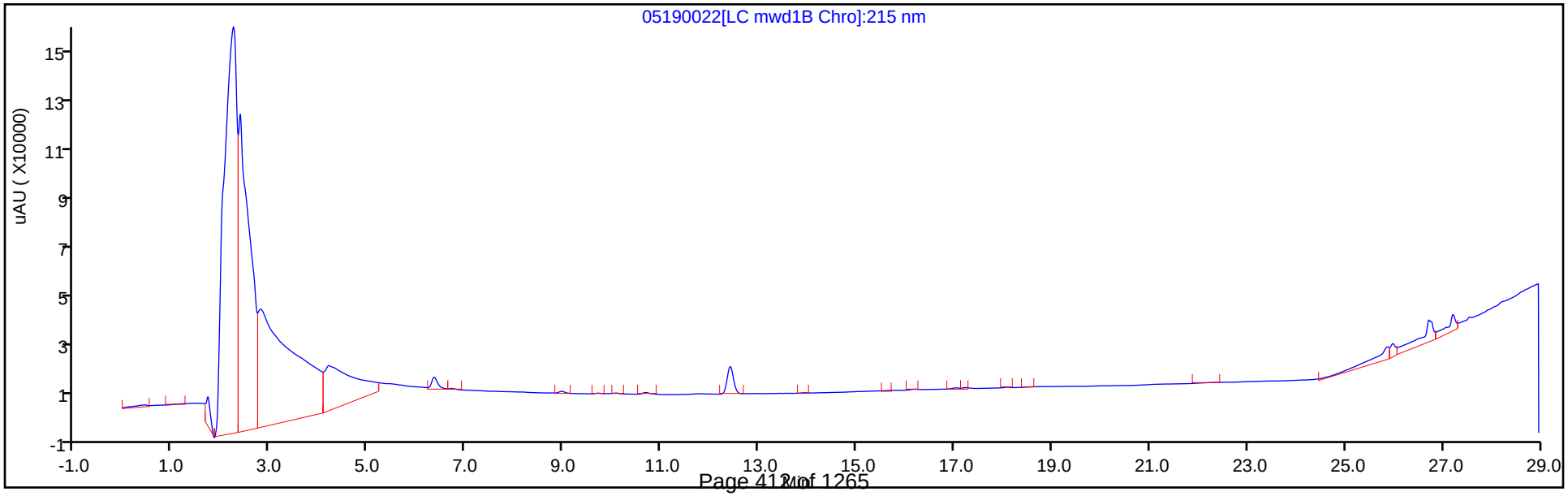
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190022.D

Injection Date:	20-May-2023 00:52:57	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	280-176591-A-7-A	Lab Sample ID:	280-176591-7	Worklist Smp#:	22
Client ID:	WBGMW-RBmw-018-2023				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
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\20230519-121649.b\05190022.D				
Lims ID:	280-176591-A-7-A				
Client ID:	WBGMW-RBmw-018-2023				
Sample Type:	Client				
Inject. Date:	20-May-2023 00:52:57	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-176591-A-7-A				
Operator ID:	JZ/JG	Instrument ID:	CHHPLC_X5		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	20-May-2023 11:53:11	Calib Date:	29-Apr-2023 04:18:01		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1663				
First Level Reviewer: LV5D		Date:	20-May-2023 11:52:49		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1885	94.26

Manual Integration/User Assign Peak Report

Eurofins Denver

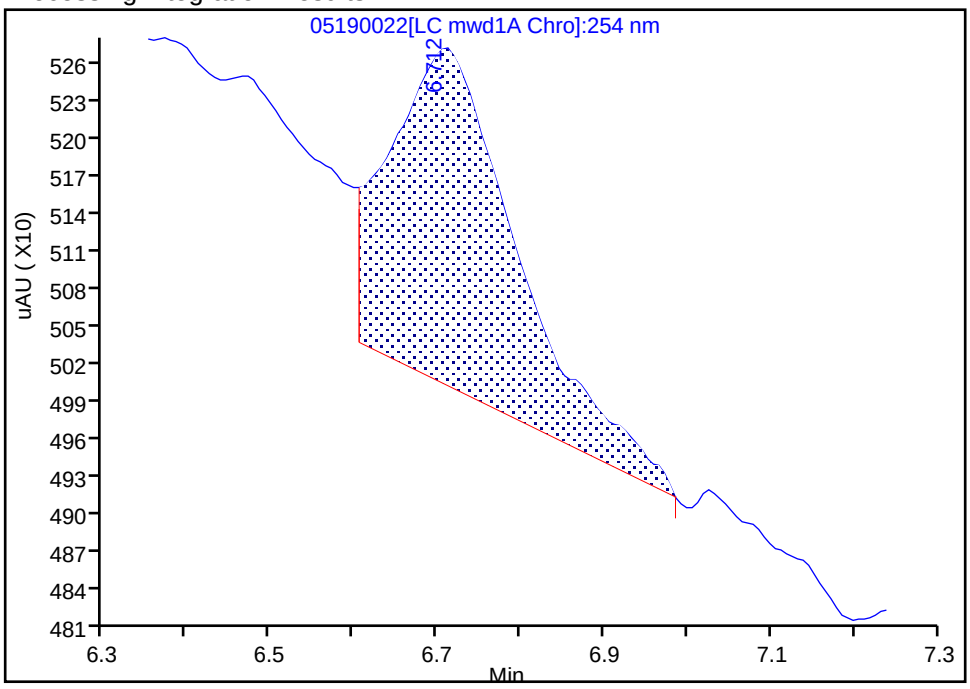
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190022.D				
Injection Date:	20-May-2023 00:52:57	Instrument ID:	CHHPLC_X5		
Lims ID:	280-176591-A-7-A	Lab Sample ID:	280-176591-7		
Client ID:	WBGMW-RBmw-018-2023				
Operator ID:	JZ/JG	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	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

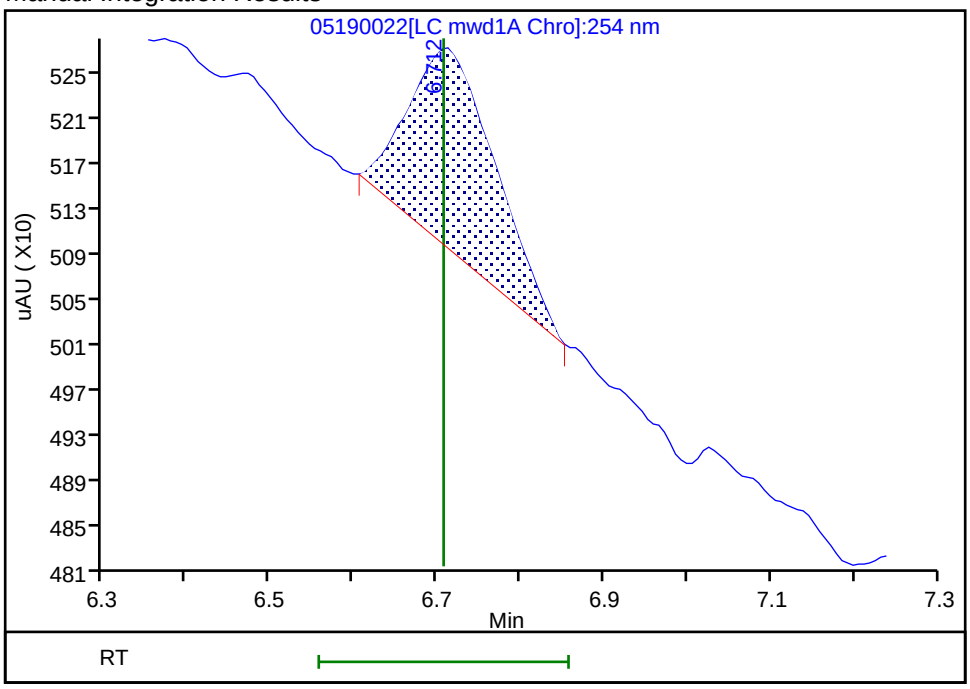
Processing Integration Results

RT: 6.71
Area: 2799
Amount: 0.010608
Amount Units: ug/ml



Manual Integration Results

RT: 6.71
Area: 1256
Amount: 0.002287
Amount Units: ug/ml



Reviewer: LV5D, 20-May-2023 11:52:44 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

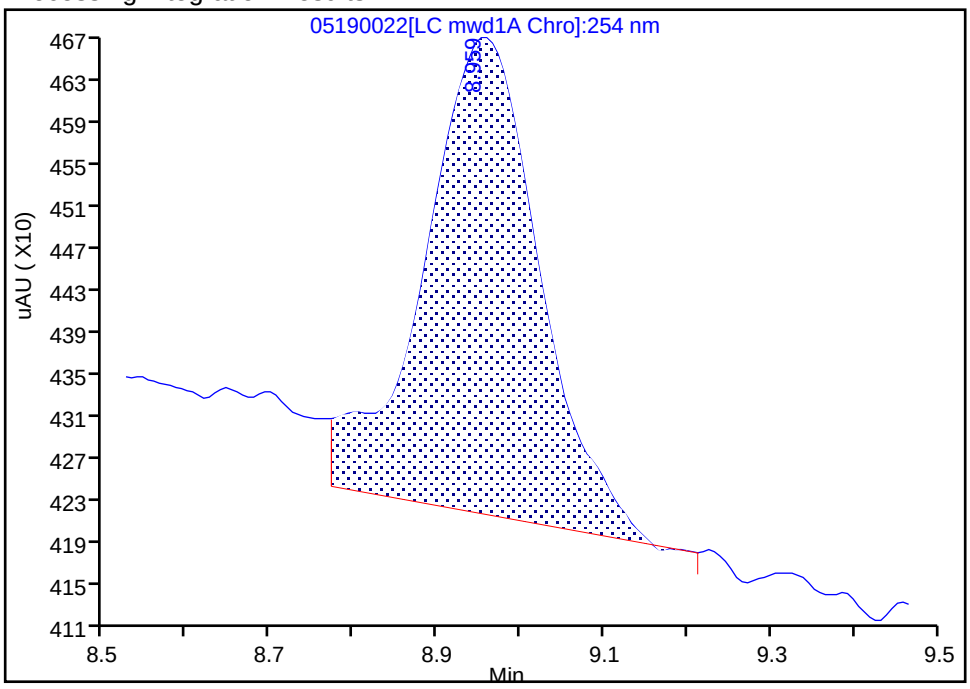
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190022.D				
Injection Date:	20-May-2023 00:52:57	Instrument ID:	CHHPLC_X5		
Lims ID:	280-176591-A-7-A	Lab Sample ID:	280-176591-7		
Client ID:	WBGMW-RBmw-018-2023				
Operator ID:	JZ/JG	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	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

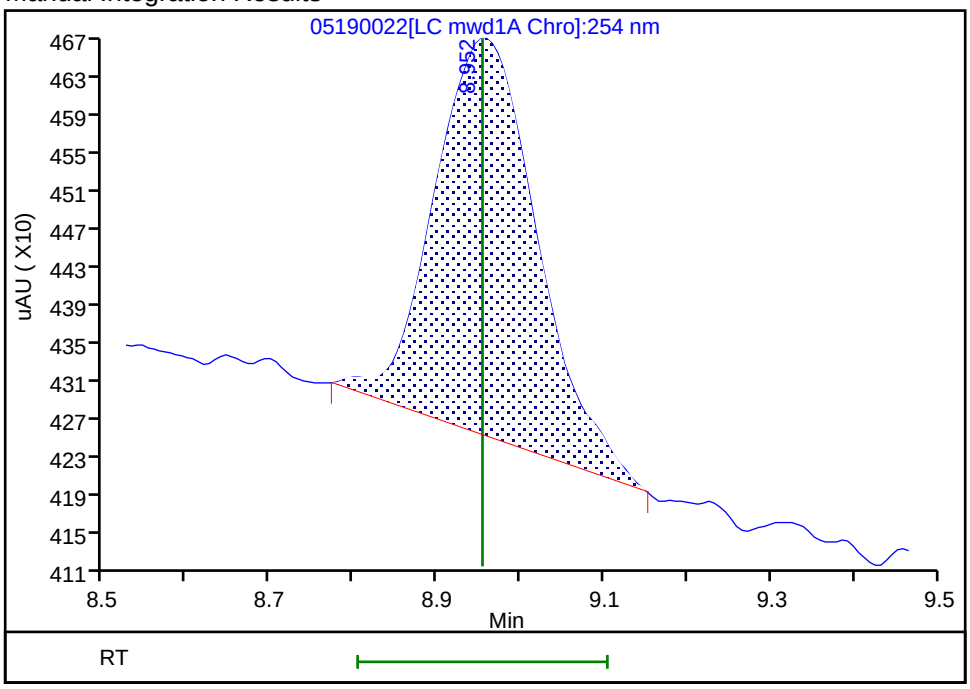
Processing Integration Results

RT: 8.96
Area: 4346
Amount: 0.017035
Amount Units: ug/ml



Manual Integration Results

RT: 8.95
Area: 3554
Amount: 0.013363
Amount Units: ug/ml



Reviewer: LV5D, 20-May-2023 11:52:48 -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.: 280-176591-1

SDG No.:

Client Sample ID: WBGmw-016-230401-GW | Lab Sample ID: 280-176591-8

Matrix: Water | Lab File ID: 05180031.D

Analysis Method: 8330B | Date Collected: 05/16/2023 10:50

Extraction Method: 3535 | Date Extracted: 05/18/2023 13:20

Sample wt/vol: 465(mL) | Date Analyzed: 05/19/2023 05:48

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.: 613045 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.22	U	0.23	0.22	0.090
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
6629-29-4	2,4-diamino-6-nitrotoluene	0.97	U	1.1	0.97	0.47
121-14-2	2,4-Dinitrotoluene	0.086	U	0.11	0.086	0.029
59229-75-3	2,6-diamino-4-nitrotoluene	0.97	U M	1.1	0.97	0.24
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	0.23	0.22	0.092
618-87-1	3,5-Dinitroaniline	0.32	U	0.43	0.32	0.14
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	0.44	0.43	0.11
80251-29-2	DNX	0.27	U	0.54	0.27	0.10
2691-41-0	HMX	0.22	U	0.23	0.22	0.094
5755-27-1	MNX	0.31	U	0.54	0.31	0.10
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
13980-04-6	TNX	0.27	U	0.54	0.27	0.085

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	99	M	83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180031.D
Lims ID: 280-176591-A-8-A
Client ID: WBGmw-016-230401-GW
Sample Type: Client
Inject. Date: 19-May-2023 05:48:16 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-176591-A-8-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:58 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 12:09:58

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 TNX	1		6.426			ND	
	2 2,6-diamino-4-nitrotoluene	1		6.431			ND	U
	4 HMX	1		6.546			ND	
	5 2,4-diamino-6-nitrotoluene	1		6.618			ND	
	6 DNX	1		6.753			ND	
	7 MNX	1		7.180			ND	
	8 RDX	1		7.560			ND	
$	10 1,2-Dinitrobenzene	1	8.512	8.513	-0.001	24961	0.1976	M
	11 1,3,5-Trinitrobenzene	1		8.640			ND	
	12 1,3-Dinitrobenzene	1		9.253			ND	
	13 Nitrobenzene	1		9.626			ND	
	14 3,5-Dinitroaniline	1		9.859			ND	
	15 Tetryl	1		9.986			ND	
	16 Nitroglycerin	2		10.439			ND	
	17 2,4,6-Trinitrotoluene	1		10.873			ND	
	18 4-Amino-2,6-dinitrotoluene	1		11.066			ND	
	19 2-Amino-4,6-dinitrotoluene	1		11.319			ND	
	20 2,6-Dinitrotoluene	1		11.473			ND	
	21 2,4-Dinitrotoluene	1		11.639			ND	
	22 o-Nitrotoluene	1		12.459			ND	
	23 p-Nitrotoluene	1		12.873			ND	
	24 m-Nitrotoluene	1		13.446			ND	
	25 PETN	2		14.599			ND	

QC Flag Legend
Processing Flags

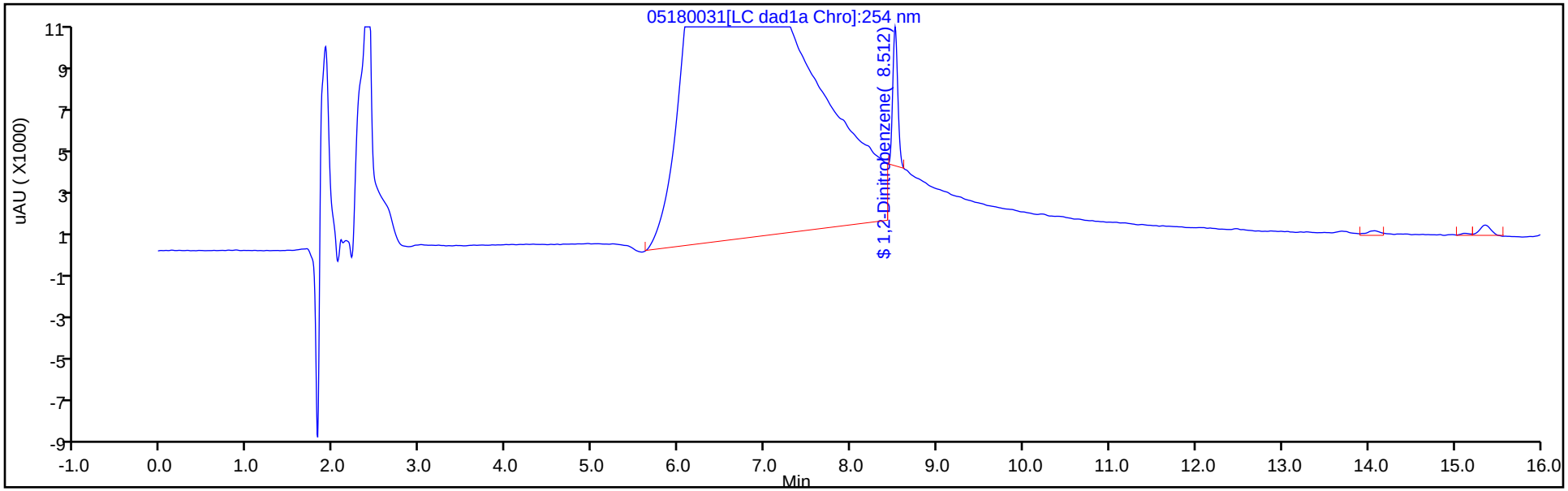
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 19-May-2023 12:22:04 Chrom Revision: 2.3 16-May-2023 16:37:30

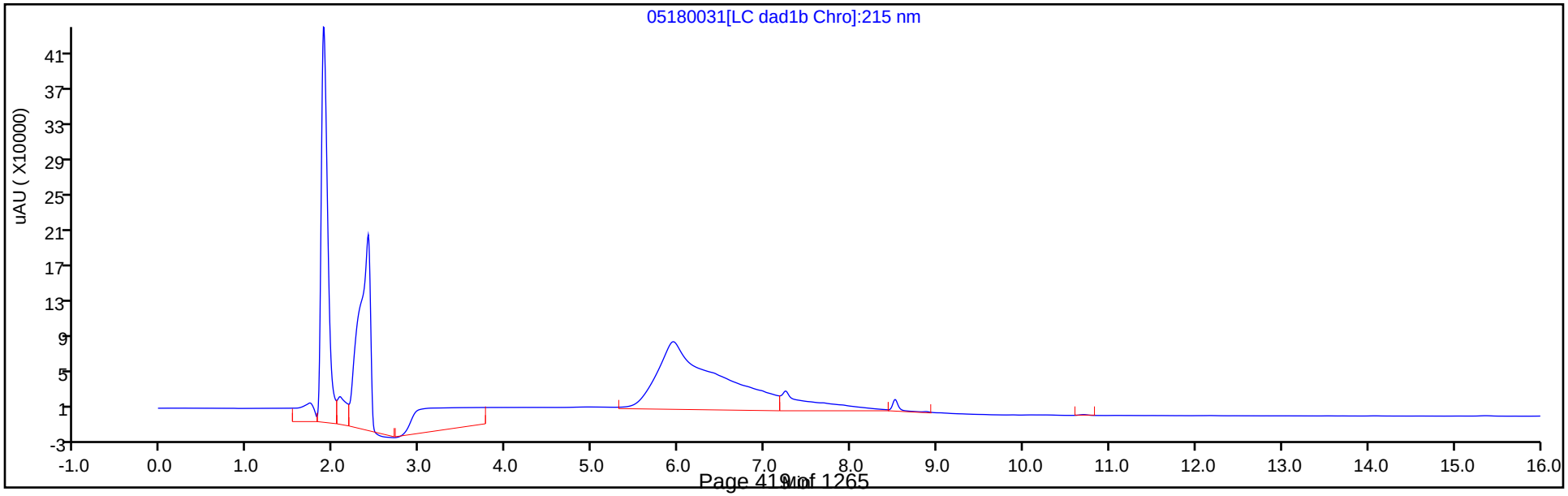
Eurofins Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180031.d				
Injection Date:	19-May-2023 05:48:16	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	280-176591-A-8-A	Lab Sample ID:	280-176591-8	Worklist Smp#:	31
Client ID:	WBGmw-016-230401-GW				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
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\20230518-121611.b\05180031.D				
Lims ID:	280-176591-A-8-A				
Client ID:	WBGmw-016-230401-GW				
Sample Type:	Client				
Inject. Date:	19-May-2023 05:48:16	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-176591-A-8-A				
Operator ID:	JZ/JG	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	19-May-2023 12:21:58	Calib Date:	24-Feb-2023 17:41:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1654				
First Level Reviewer: LV5D		Date:	19-May-2023 12:09:58		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1976	98.81

Eurofins Denver

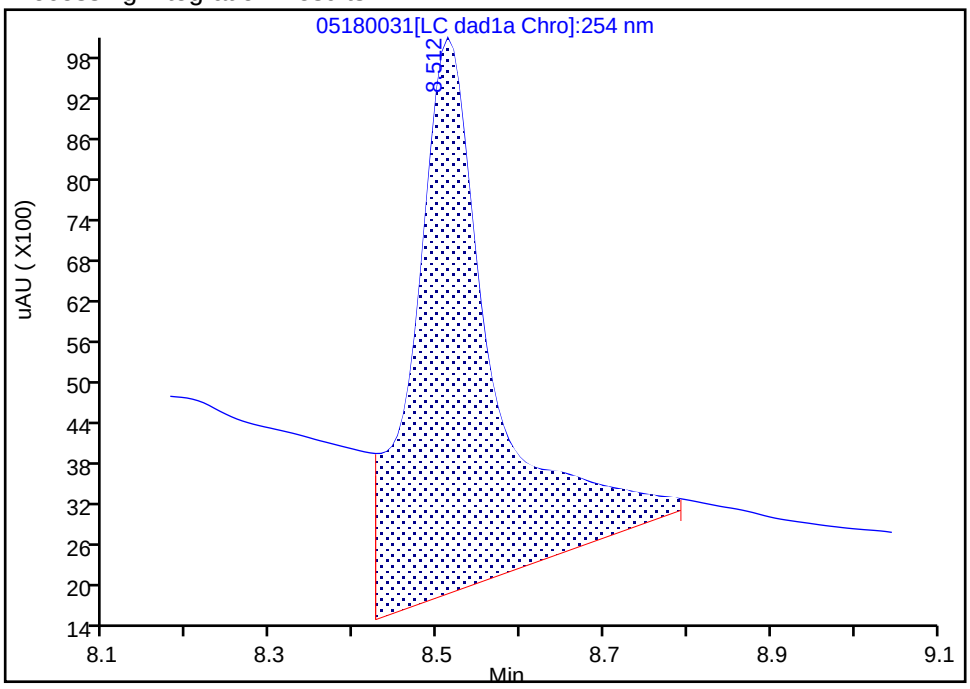
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180031.d				
Injection Date:	19-May-2023 05:48:16	Instrument ID:	CHHPLC_X3		
Lims ID:	280-176591-A-8-A	Lab Sample ID:	280-176591-8		
Client ID:	WBGmw-016-230401-GW				
Operator ID:	JZ/JG	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	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

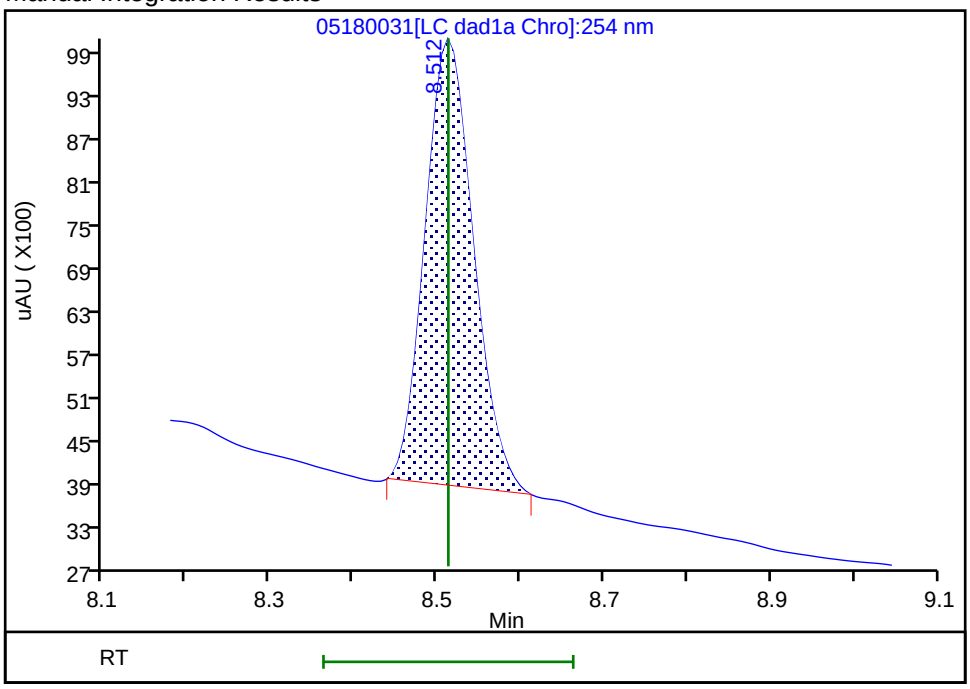
Processing Integration Results

RT: 8.51
Area: 55624
Amount: 0.440381
Amount Units: ug/mL



Manual Integration Results

RT: 8.51
Area: 24961
Amount: 0.197619
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 12:09:57 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

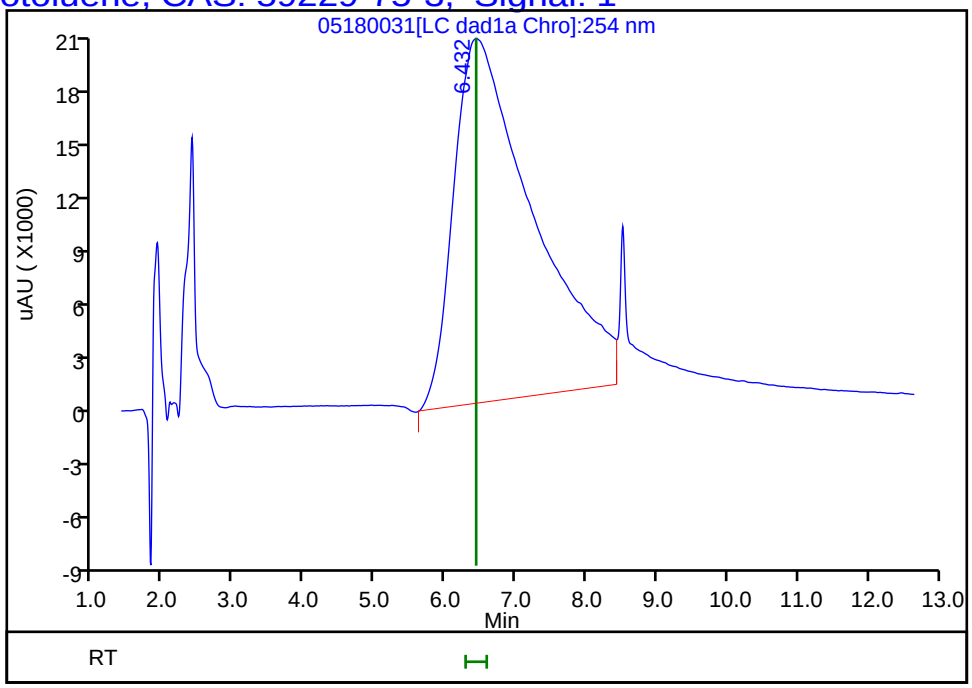
Eurofins Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180031.d
Injection Date: 19-May-2023 05:48:16 Instrument ID: CHHPLC_X3
Lims ID: 280-176591-A-8-A Lab Sample ID: 280-176591-8
Client ID: WBGmw-016-230401-GW
Operator ID: JZ/JG ALS Bottle#: 31 Worklist Smp#: 31
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

2 2,6-diamino-4-nitrotoluene, CAS: 59229-75-3, Signal: 1

RT: 6.43
Response: 1543862
Amount: 6.717653



Reviewer: LV5D, 19-May-2023 12:09:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-176591-1

SDG No.:

Client Sample ID: WBGmw-017-230401-GW | Lab Sample ID: 280-176591-9

Matrix: Water | Lab File ID: 05180032.D

Analysis Method: 8330B | Date Collected: 05/16/2023 16:13

Extraction Method: 3535 | Date Extracted: 05/18/2023 13:20

Sample wt/vol: 508.4(mL) | Date Analyzed: 05/19/2023 06:11

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.: 613045 | 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	0.083
99-65-0	1,3-Dinitrobenzene	0.098	U	0.11	0.098	0.036
118-96-7	2,4,6-Trinitrotoluene	0.098	U	0.11	0.098	0.044
6629-29-4	2,4-diamino-6-nitrotoluene	0.89	U	0.98	0.89	0.43
121-14-2	2,4-Dinitrotoluene	0.079	U	0.098	0.079	0.027
59229-75-3	2,6-diamino-4-nitrotoluene	0.89	U	0.98	0.89	0.22
606-20-2	2,6-Dinitrotoluene	0.079	U	0.098	0.079	0.039
35572-78-2	2-Amino-4,6-dinitrotoluene	0.098	U	0.11	0.098	0.050
88-72-2	2-Nitrotoluene	0.20	U	0.21	0.20	0.084
618-87-1	3,5-Dinitroaniline	0.30	U	0.39	0.30	0.13
99-08-1	3-Nitrotoluene	0.34	U Q	0.39	0.34	0.19
19406-51-0	4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.057
99-99-0	4-Nitrotoluene	0.39	U	0.40	0.39	0.098
80251-29-2	DNX	0.25	U	0.49	0.25	0.096
2691-41-0	HMX	0.20	U M	0.21	0.20	0.086
5755-27-1	MNX	0.29	U	0.49	0.29	0.091
98-95-3	Nitrobenzene	0.20	U	0.21	0.20	0.089
55-63-0	Nitroglycerin	2.0	U	2.1	2.0	0.91
78-11-5	PETN	0.98	U	1.1	0.98	0.44
121-82-4	RDX	0.20	U	0.21	0.20	0.051
479-45-8	Tetryl	0.098	U	0.11	0.098	0.031
13980-04-6	TNX	0.25	U	0.49	0.25	0.078

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\20230518-121611.b\05180032.D
Lims ID: 280-176591-A-9-A
Client ID: WBGmw-017-230401-GW
Sample Type: Client
Inject. Date: 19-May-2023 06:11:13 ALS Bottle#: 32 Worklist Smp#: 32
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-176591-A-9-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:58 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 12:10:04

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 TNX	1		6.426			ND	
	2 2,6-diamino-4-nitrotoluene	1		6.431			ND	
	4 HMX	1		6.546			ND	U
	5 2,4-diamino-6-nitrotoluene	1		6.618			ND	
	6 DNX	1		6.753			ND	
	7 MNX	1		7.180			ND	
	8 RDX	1		7.560			ND	
$	10 1,2-Dinitrobenzene	1	8.516	8.513	0.003	26238	0.2077	
	11 1,3,5-Trinitrobenzene	1		8.640			ND	
	12 1,3-Dinitrobenzene	1		9.253			ND	
	13 Nitrobenzene	1		9.626			ND	
	14 3,5-Dinitroaniline	1		9.859			ND	
	15 Tetryl	1		9.986			ND	
	16 Nitroglycerin	2		10.439			ND	
	17 2,4,6-Trinitrotoluene	1		10.873			ND	
	18 4-Amino-2,6-dinitrotoluene	1		11.066			ND	
	19 2-Amino-4,6-dinitrotoluene	1		11.319			ND	
	20 2,6-Dinitrotoluene	1		11.473			ND	
	21 2,4-Dinitrotoluene	1		11.639			ND	
	22 o-Nitrotoluene	1		12.459			ND	
	23 p-Nitrotoluene	1		12.873			ND	
	24 m-Nitrotoluene	1		13.446			ND	
	25 PETN	2		14.599			ND	

QC Flag Legend

Processing Flags
Review Flags
U - Marked Undetected

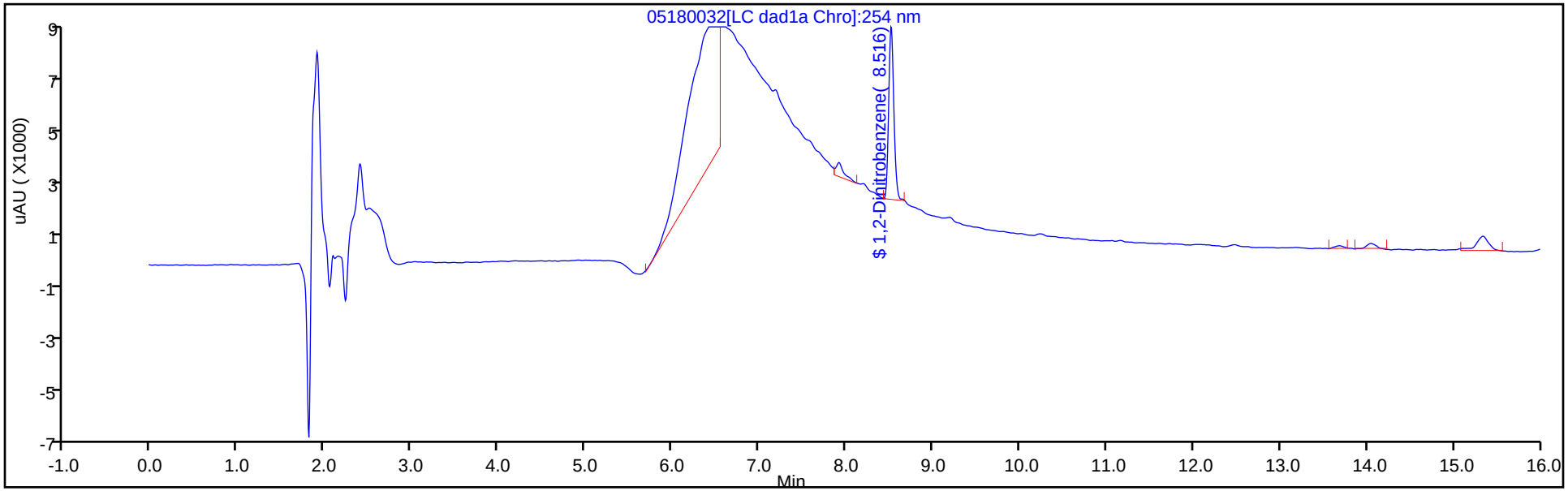
Report Date: 19-May-2023 12:22:04 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

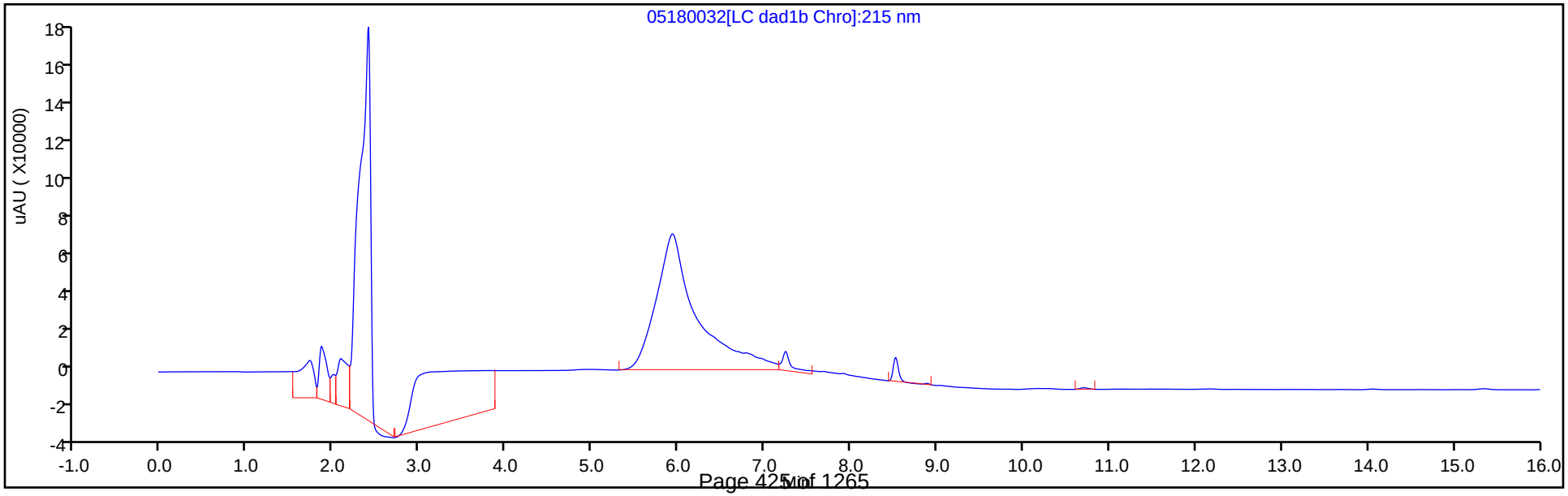
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180032.d

Injection Date:	19-May-2023 06:11:13	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	280-176591-A-9-A	Lab Sample ID:	280-176591-9	Worklist Smp#:	32
Client ID:	WBGmw-017-230401-GW				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	32
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



Report Date: 19-May-2023 12:22:04 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180032.D
Lims ID: 280-176591-A-9-A
Client ID: WBGmw-017-230401-GW
Sample Type: Client
Inject. Date: 19-May-2023 06:11:13 ALS Bottle#: 32 Worklist Smp#: 32
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-176591-A-9-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:58 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 12:10:04

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2077	103.86

User Disabled Compound Report

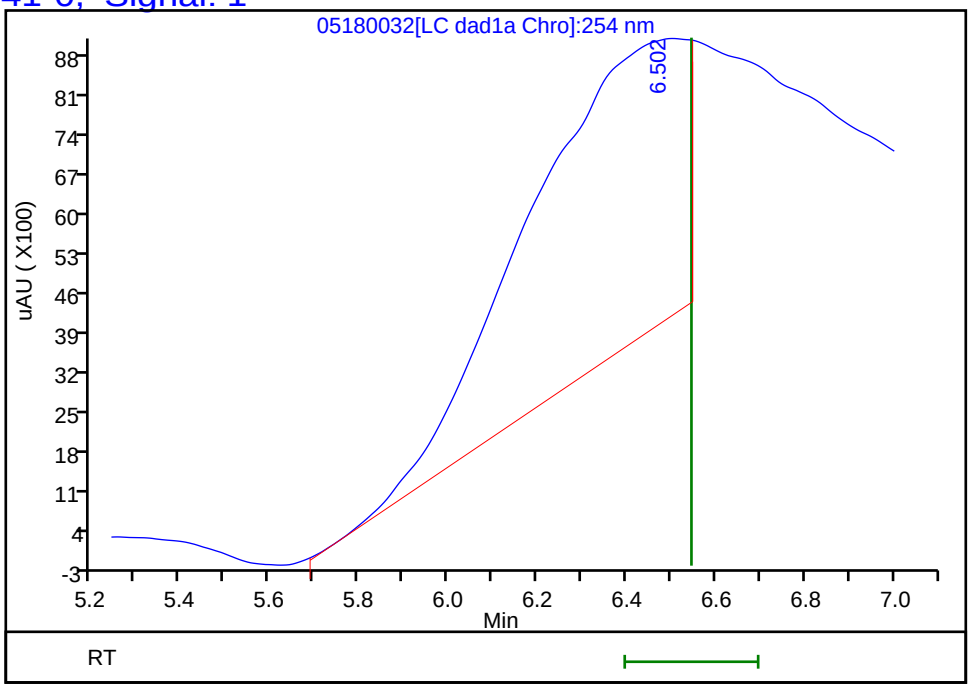
Eurofins Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180032.d
Injection Date: 19-May-2023 06:11:13 Instrument ID: CHHPLC_X3
Lims ID: 280-176591-A-9-A Lab Sample ID: 280-176591-9
Client ID: WBGmw-017-230401-GW
Operator ID: JZ/JG ALS Bottle#: 32 Worklist Smp#: 32
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: 6.50
Response: 131700
Amount: 1.408132



Reviewer: LV5D, 19-May-2023 12:10:04
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.: 280-176591-1 Analy Batch No.: 599427

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/17/2023 00:33 Calibration End Date: 01/17/2023 03:16 Calibration ID: 75939

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-599427/18	01160046.D
Level 2	IC 280-599427/17	01160045.D
Level 3	IC 280-599427/16	01160044.D
Level 4	IC 280-599427/15	01160043.D
Level 5	IC 280-599427/14	01160042.D
Level 6	IC 280-599427/13	01160041.D
Level 7	IC 280-599427/12	01160040.D
Level 8	IC 280-599427/11	01160039.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
2,6-diamino-4-nitrotoluene	6.459	6.459	6.459	6.460	6.459	6.460	6.457	6.432			6.305 - 6.605	6.456
2,4-diamino-6-nitrotoluene	6.639	6.639	6.632	6.640	6.639	6.640	6.637	6.618			6.619 - 6.919	6.636
3,5-Dinitroaniline	9.805	9.798	9.812	9.800	9.806	9.800	9.804	9.798			9.650 - 9.950	9.803

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-176591-1 Analy Batch No.: 599427

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/17/2023 00:33 Calibration End Date: 01/17/2023 03:16 Calibration ID: 75939

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-599427/18	01160046.D
Level 2	IC 280-599427/17	01160045.D
Level 3	IC 280-599427/16	01160044.D
Level 4	IC 280-599427/15	01160043.D
Level 5	IC 280-599427/14	01160042.D
Level 6	IC 280-599427/13	01160041.D
Level 7	IC 280-599427/12	01160040.D
Level 8	IC 280-599427/11	01160039.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 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
2,6-diamino-4-nitrotoluene	266300 235998	260780 221767	247020 234891	225236 222744	Lin2	864.132254	229692.993							0.9980		0.9900
2,4-diamino-6-nitrotoluene	152100 147503	163500 136319	149080 148050	138680 136546	Ave		146472.134				6.3		20.0			
3,5-Dinitroaniline	219850 241580	252000 241484	246040 245164	237836 244381	Lin2	-392.42757	245423.810							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.: 280-176591-1 Analy Batch No.: 599427

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/17/2023 00:33 Calibration End Date: 01/17/2023 03:16 Calibration ID: 75939

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-599427/18	01160046.D
Level 2	IC 280-599427/17	01160045.D
Level 3	IC 280-599427/16	01160044.D
Level 4	IC 280-599427/15	01160043.D
Level 5	IC 280-599427/14	01160042.D
Level 6	IC 280-599427/13	01160041.D
Level 7	IC 280-599427/12	01160040.D
Level 8	IC 280-599427/11	01160039.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2,6-diamino-4-nitrotoluene	Lin2	5326 155237	13039 234891	24702 556860	56309	94399	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
2,4-diamino-6-nitrotoluene	Ave	3042 95423	8175 148050	14908 341365	34670	59001	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
3,5-Dinitroaniline	Lin2	4397 169039	12600 245164	24604 610953	59459	96632	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250	0.400

Curve Type Legend

Ave = Average
Lin2 = Linear 1/conc^2

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\01160039.D
Lims ID: IC ADD 8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 17-Jan-2023 00:33:01 ALS Bottle#: 42 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: ICADD8
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub10

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 17-Jan-2023 12:50:38 Calib Date: 17-Jan-2023 06:47:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\01160055.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1672

First Level Reviewer: NQH7 Date: 17-Jan-2023 08:20:12

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 2,6-diamino-4-nitrotoluene	1	6.432	6.455	-0.023	556860	2.50	2.42	M
5 2,4-diamino-6-nitrotoluene	1	6.618	6.769	-0.151	341365	2.50	2.33	M
14 3,5-Dinitroaniline	1	9.798	9.800	-0.002	610953	2.50	2.49	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330_ADDs_00035 Amount Added: 125.00 Units: uL

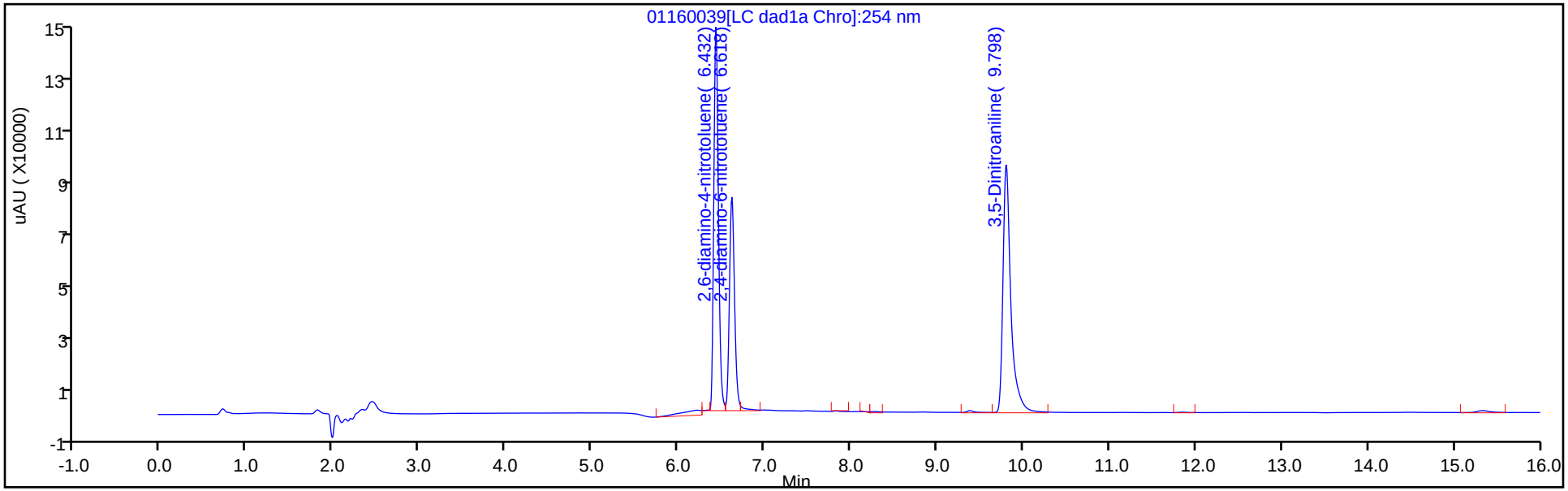
Report Date: 17-Jan-2023 12:50:38 Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Denver

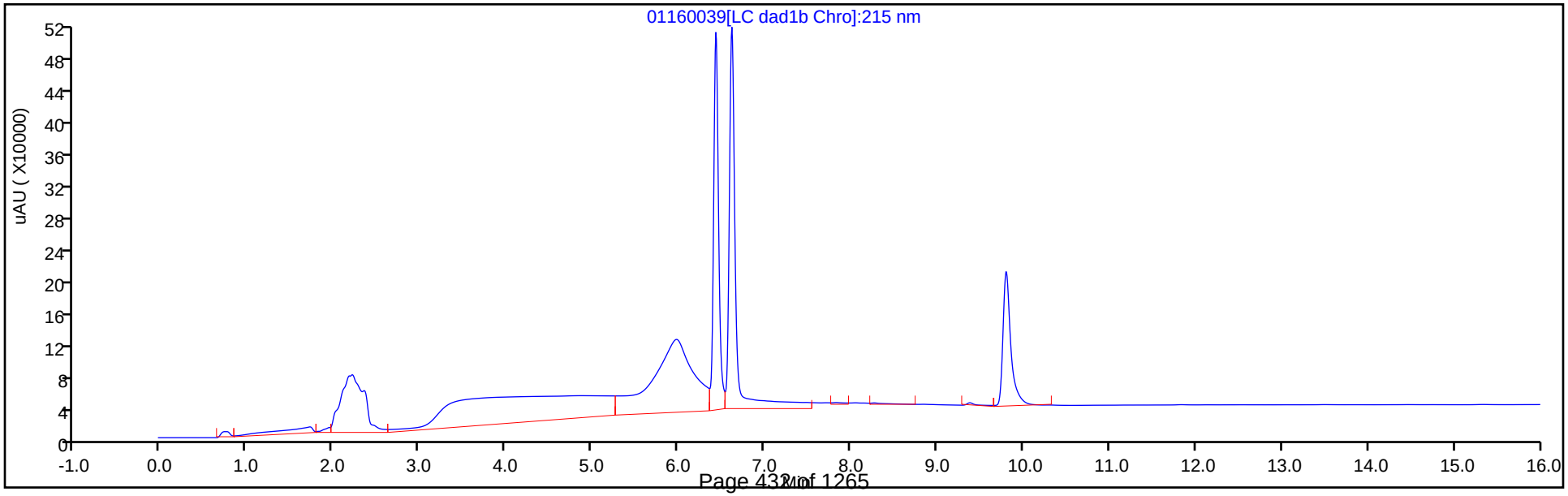
Data File: \\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160039.d

Injection Date:	17-Jan-2023 00:33:01	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC ADD 8			Worklist Smp#:	11
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



Manual Integration/User Assign Peak Report

Eurofins Denver

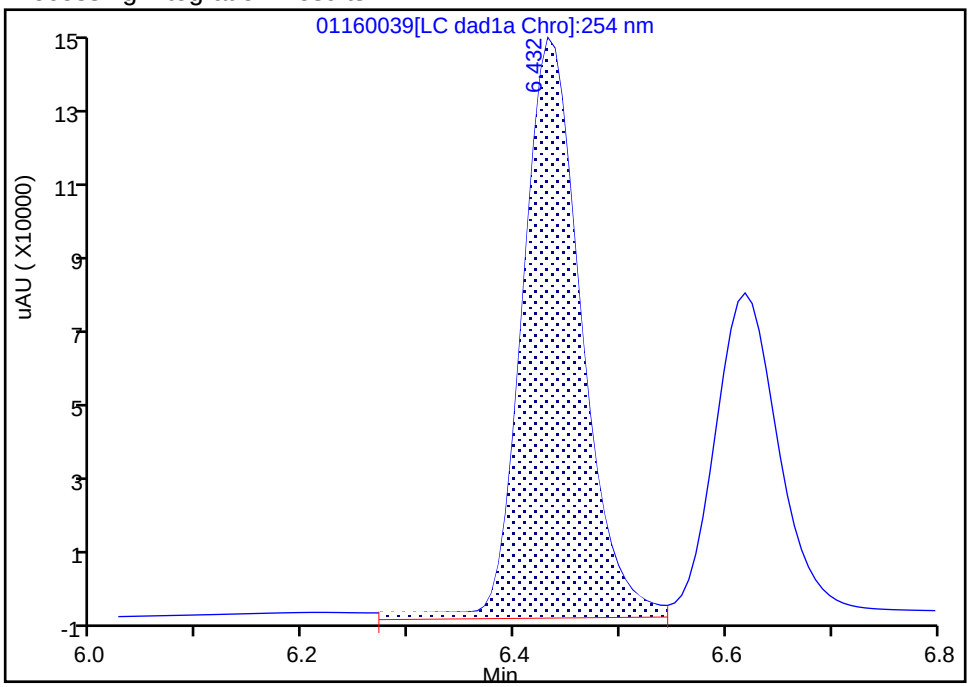
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160039.d				
Injection Date:	17-Jan-2023 00:33:01	Instrument ID:	CHHPLC_X3		
Lims ID:	IC ADD 8				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	42	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 2,6-diamino-4-nitrotoluene, CAS: 59229-75-3

Signal: 1

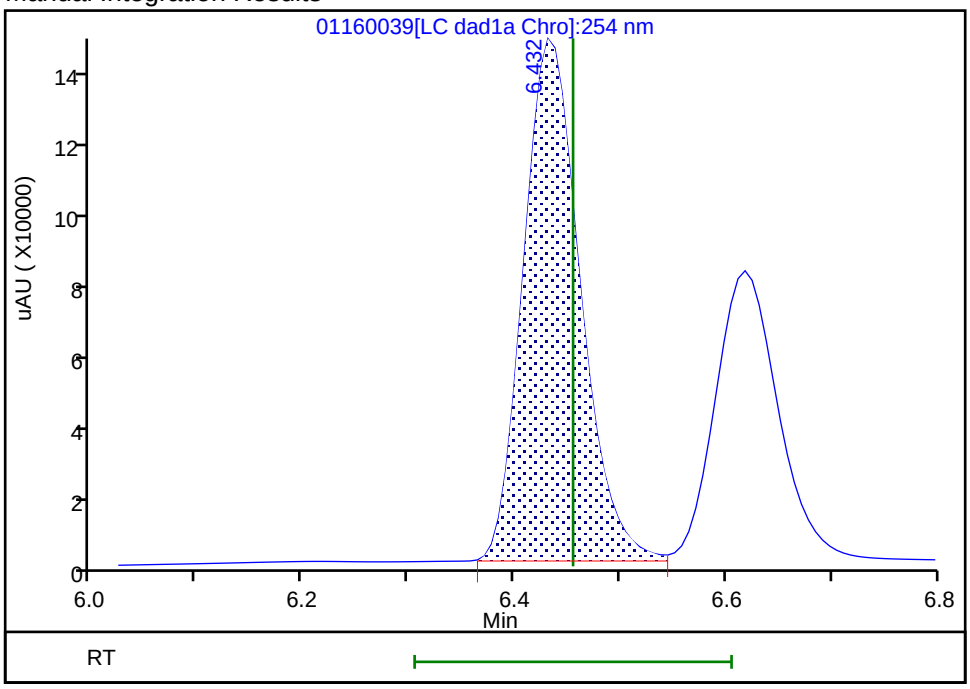
Processing Integration Results

RT: 6.43
Area: 581780
Amount: 2.370843
Amount Units: ug/mL



Manual Integration Results

RT: 6.43
Area: 556860
Amount: 2.420604
Amount Units: ug/mL



Reviewer: LV5D, 17-Jan-2023 12:22:46

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

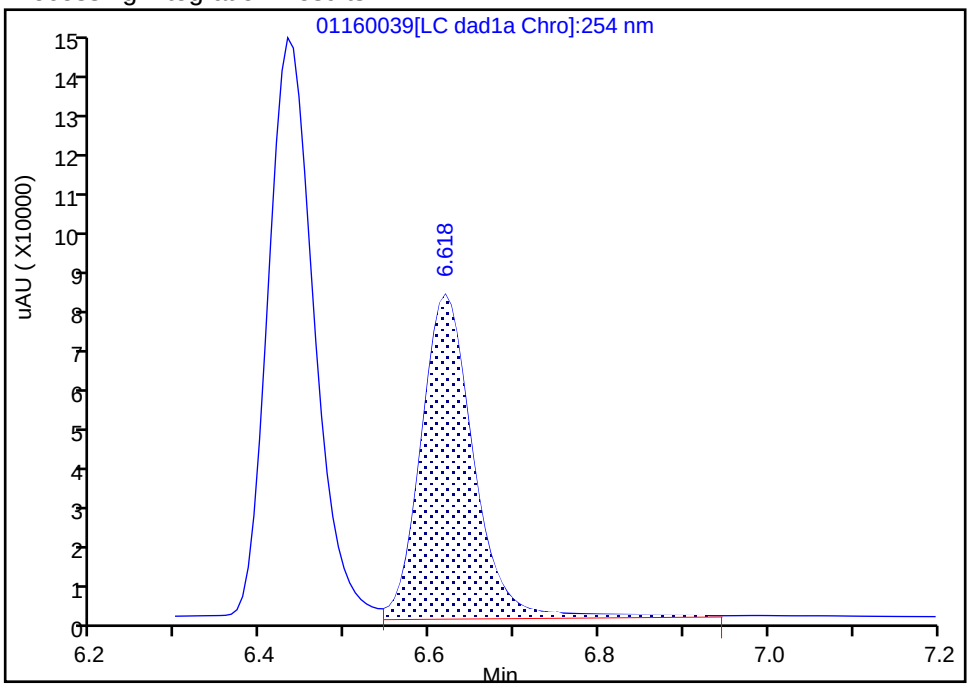
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160039.d				
Injection Date:	17-Jan-2023 00:33:01	Instrument ID:	CHHPLC_X3		
Lims ID:	IC ADD 8				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	42	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 2,4-diamino-6-nitrotoluene, CAS: 6629-29-4

Signal: 1

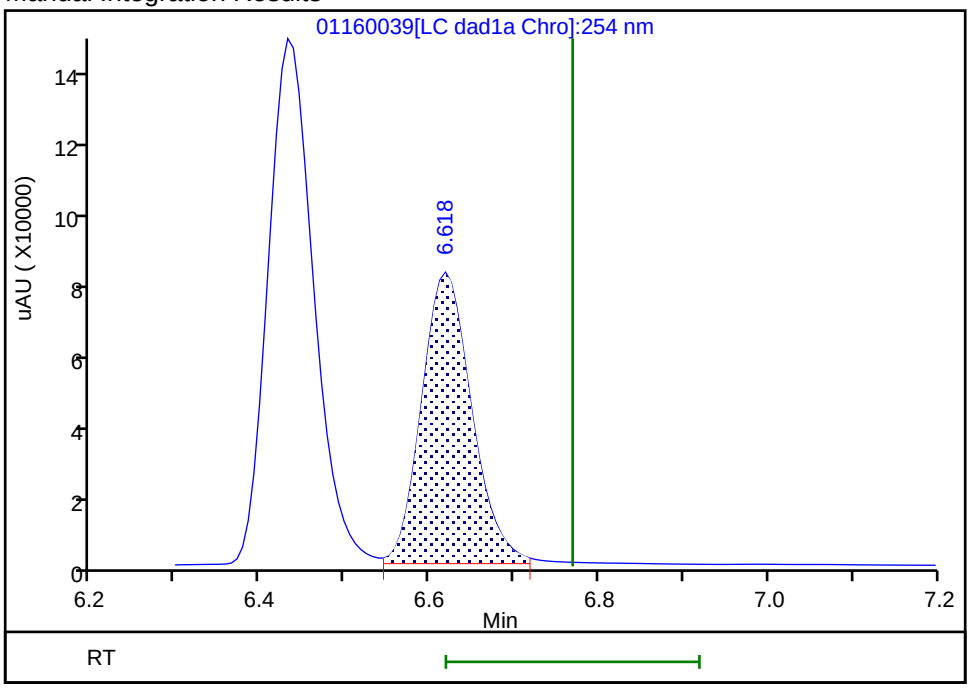
Processing Integration Results

RT: 6.62
Area: 364706
Amount: 2.146312
Amount Units: ug/mL



Manual Integration Results

RT: 6.62
Area: 341365
Amount: 2.330580
Amount Units: ug/mL



Reviewer: LV5D, 17-Jan-2023 12:22:47

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\01160040.D
Lims ID: IC ADD 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 17-Jan-2023 00:56:21 ALS Bottle#: 43 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: ICADD7
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub10

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 17-Jan-2023 12:50:39 Calib Date: 17-Jan-2023 06:47:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\01160055.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1672

First Level Reviewer: LV5D Date: 17-Jan-2023 12:23:10

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 2,6-diamino-4-nitrotoluene	1	6.457	6.455	0.002	234891	1.00	1.02	M
5 2,4-diamino-6-nitrotoluene	1	6.637	6.769	-0.132	148050	1.00	1.01	M
14 3,5-Dinitroaniline	1	9.804	9.800	0.004	245164	1.00	1.00	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

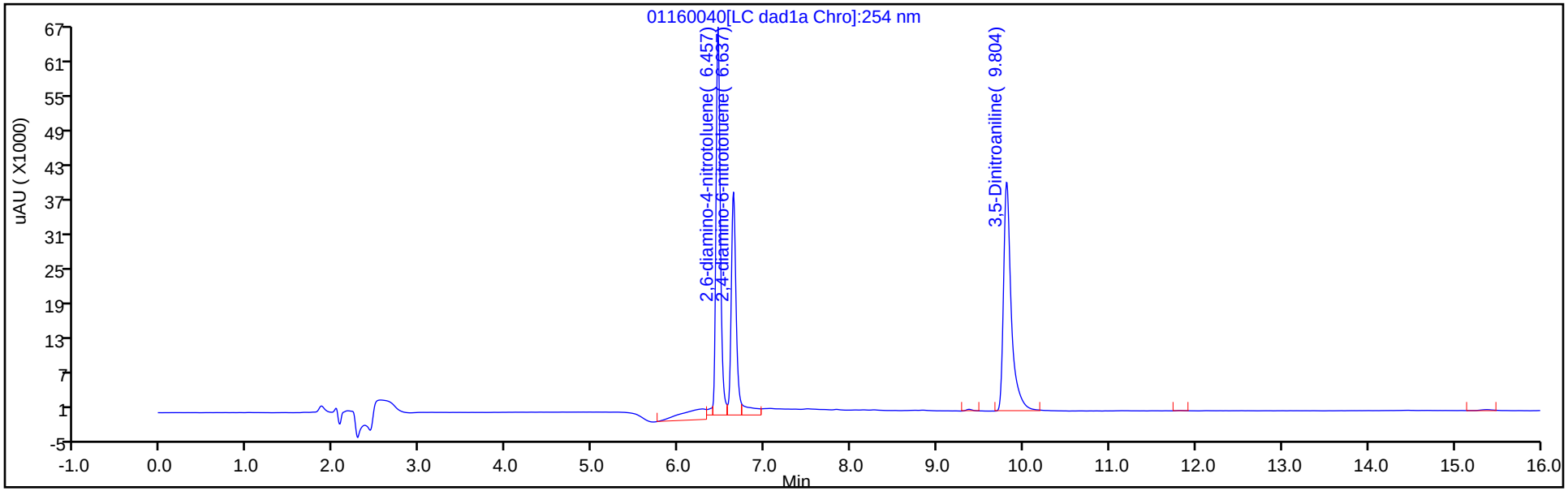
8330_ADDs_00035 Amount Added: 50.00 Units: uL

Report Date: 17-Jan-2023 12:50:39 Chrom Revision: 2.3 20-Dec-2022 14:14:06

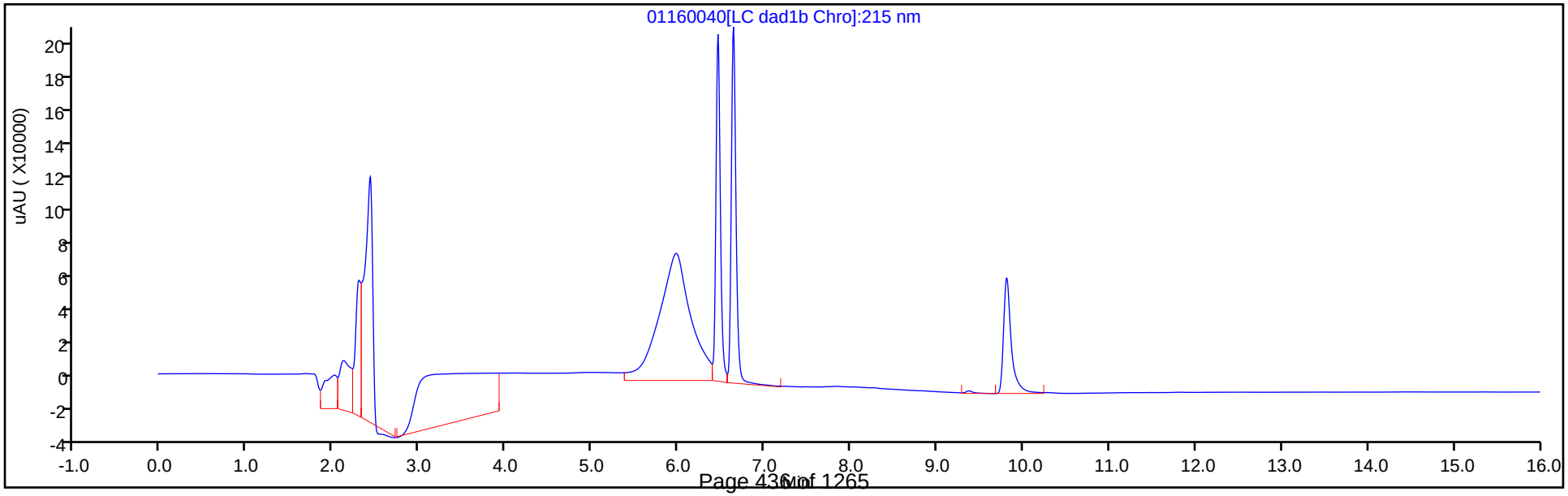
Eurofins Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160040.d				
Injection Date:	17-Jan-2023 00:56:21	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC ADD 7			Worklist Smp#:	12
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	43
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

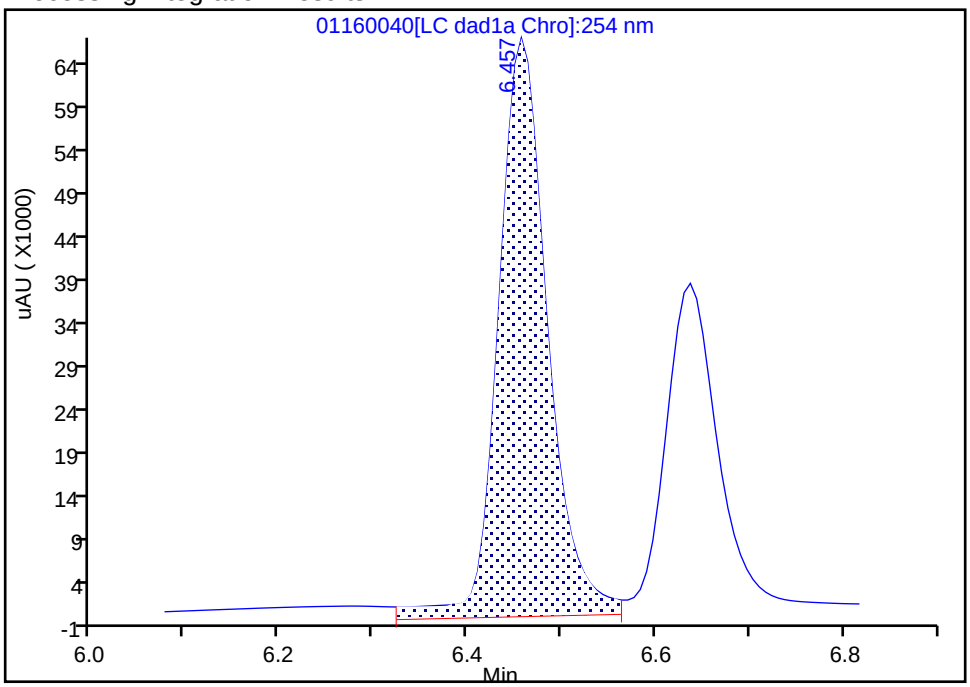
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160040.d				
Injection Date:	17-Jan-2023 00:56:21	Instrument ID:	CHHPLC_X3		
Lims ID:	IC ADD 7				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	43	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 2,6-diamino-4-nitrotoluene, CAS: 59229-75-3

Signal: 1

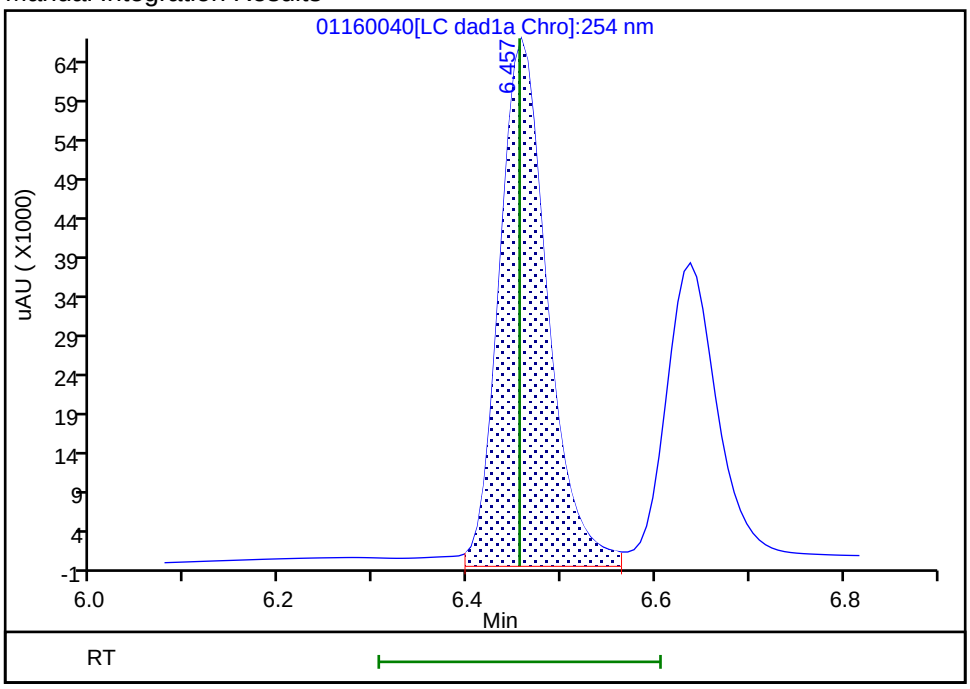
Processing Integration Results

RT: 6.46
Area: 243731
Amount: 0.963471
Amount Units: ug/mL



Manual Integration Results

RT: 6.46
Area: 234891
Amount: 1.018868
Amount Units: ug/mL



Reviewer: LV5D, 17-Jan-2023 12:23:08
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

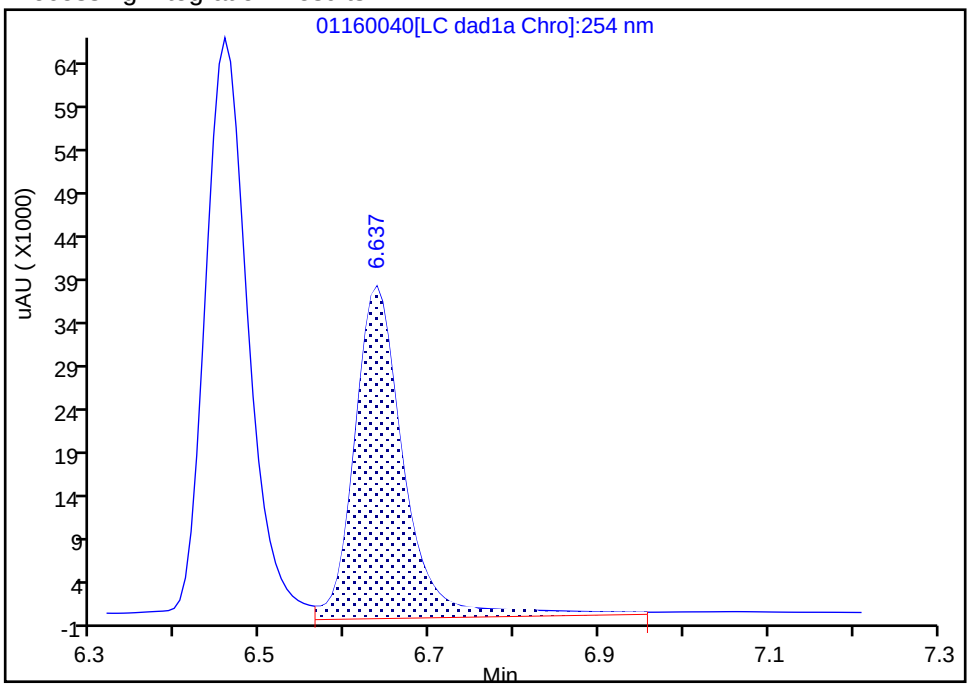
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160040.d				
Injection Date:	17-Jan-2023 00:56:21	Instrument ID:	CHHPLC_X3		
Lims ID:	IC ADD 7				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	43	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 2,4-diamino-6-nitrotoluene, CAS: 6629-29-4

Signal: 1

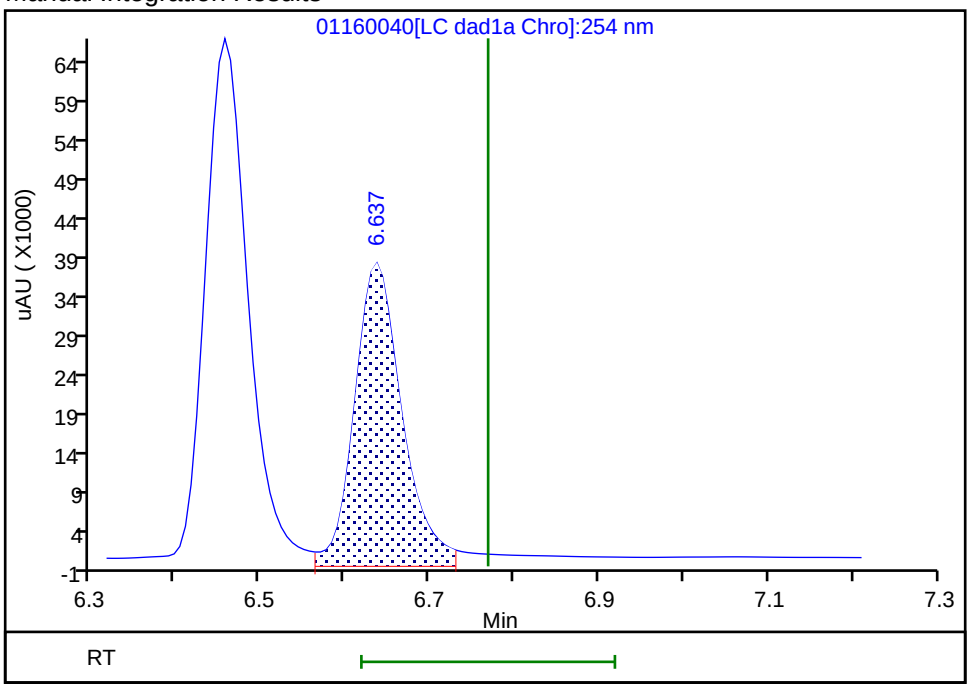
Processing Integration Results

RT: 6.64
Area: 156243
Amount: 0.928768
Amount Units: ug/mL



Manual Integration Results

RT: 6.64
Area: 148050
Amount: 1.010772
Amount Units: ug/mL



Reviewer: LV5D, 17-Jan-2023 12:23:09

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\01160041.D
Lims ID: IC ADD 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 17-Jan-2023 01:19:43 ALS Bottle#: 44 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: ICADD6
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub10

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 17-Jan-2023 12:50:39 Calib Date: 17-Jan-2023 06:47:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\01160055.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1672

First Level Reviewer: LV5D Date: 17-Jan-2023 12:23:22

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 2,6-diamino-4-nitrotoluene	1	6.460	6.455	0.005	155237	0.7000	0.6721	M
5 2,4-diamino-6-nitrotoluene	1	6.640	6.769	-0.129	95423	0.7000	0.6515	M
14 3,5-Dinitroaniline	1	9.800	9.800	0.000	169039	0.7000	0.6904	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330_ADDs_00035 Amount Added: 35.00 Units: uL

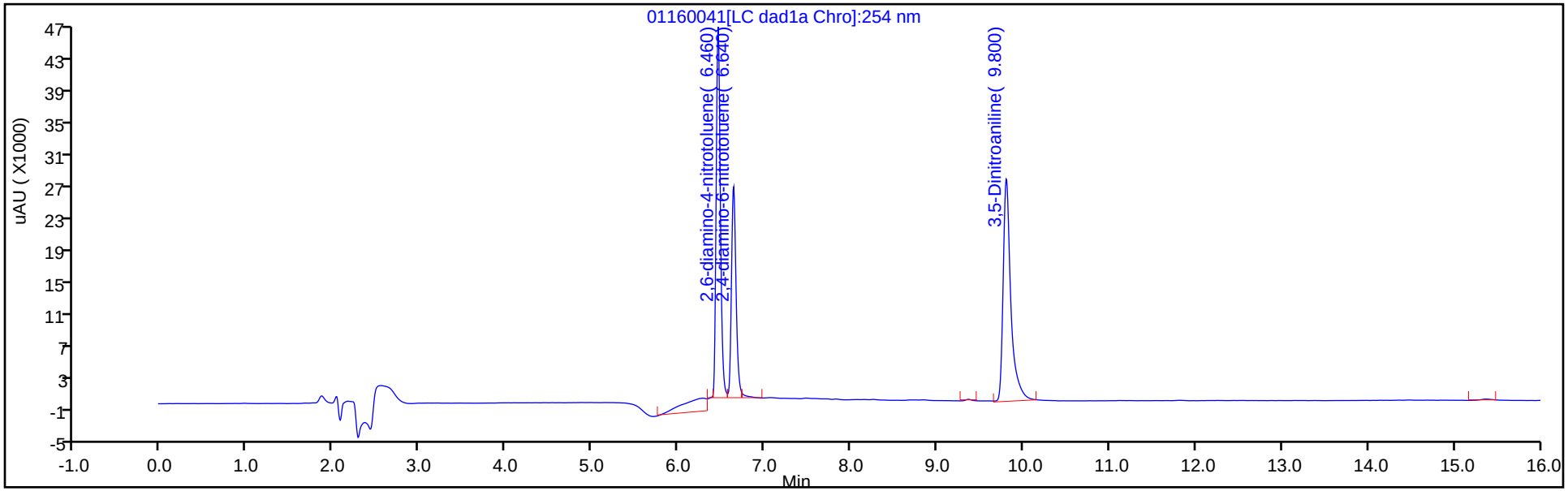
Report Date: 17-Jan-2023 12:50:39 Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Denver

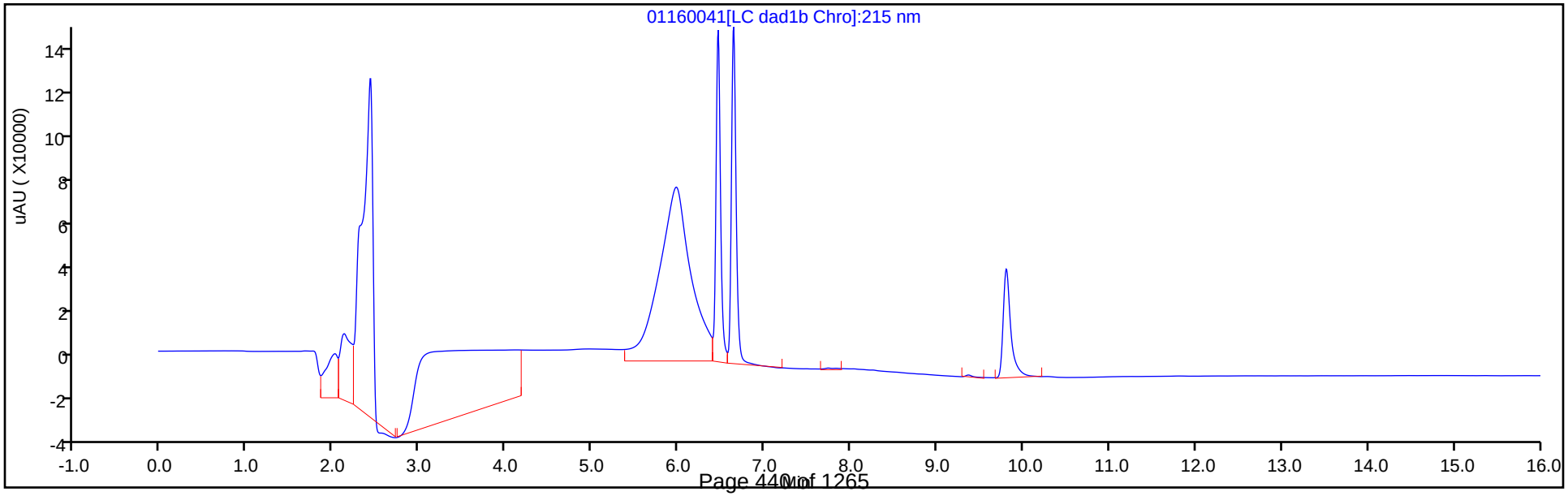
Data File: \\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160041.d

Injection Date:	17-Jan-2023 01:19:43	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC ADD 6			Worklist Smp#:	13
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	44
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

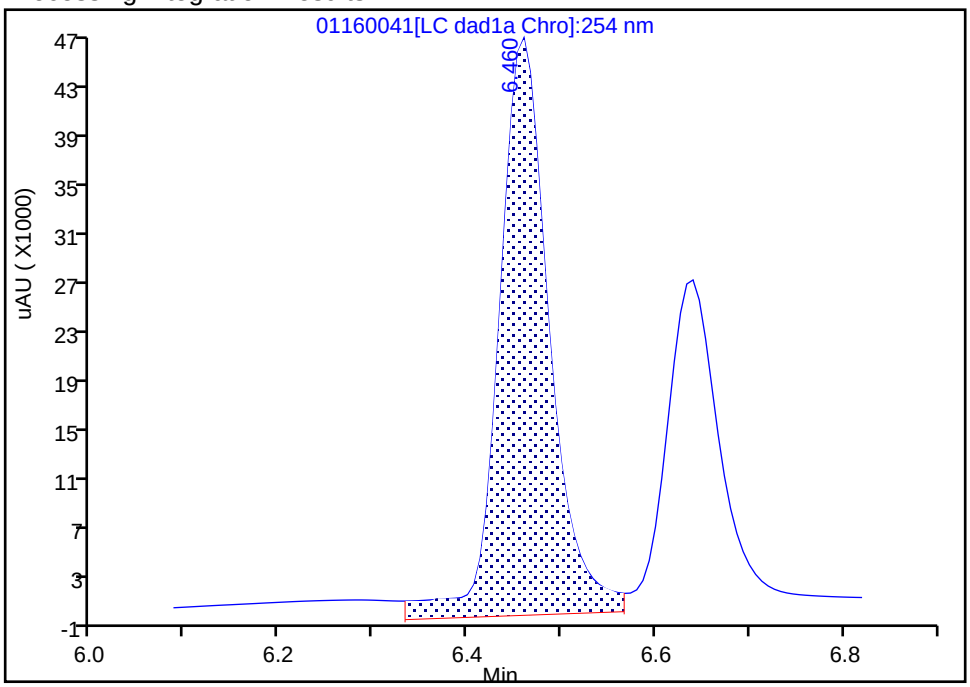
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160041.d				
Injection Date:	17-Jan-2023 01:19:43	Instrument ID:	CHHPLC_X3		
Lims ID:	IC ADD 6				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	44	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 2,6-diamino-4-nitrotoluene, CAS: 59229-75-3

Signal: 1

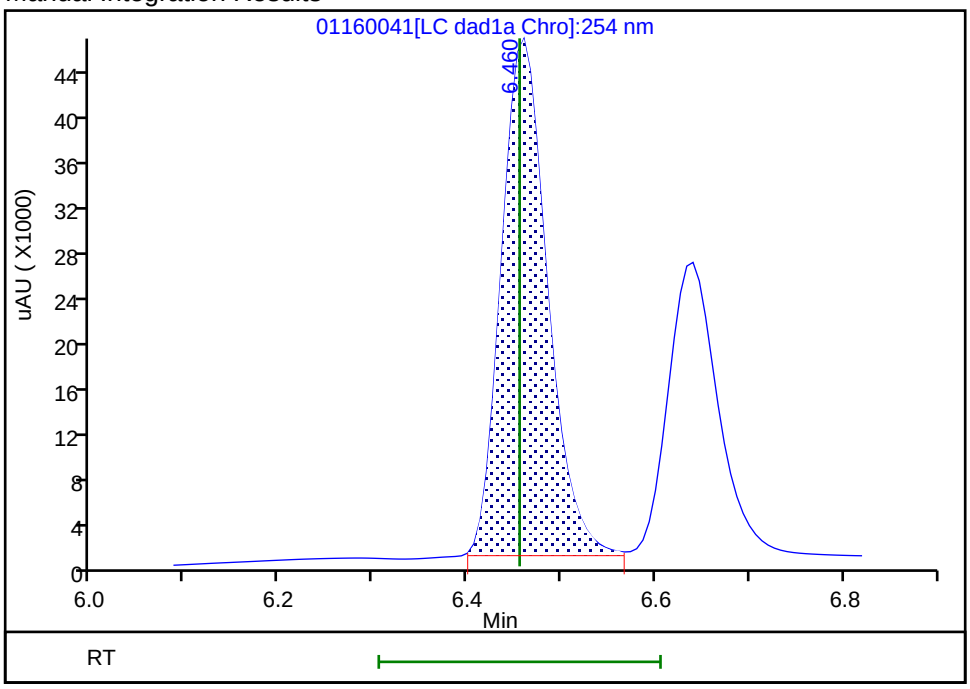
Processing Integration Results

RT: 6.46
Area: 174539
Amount: 0.677131
Amount Units: ug/mL



Manual Integration Results

RT: 6.46
Area: 155237
Amount: 0.672083
Amount Units: ug/mL



Reviewer: LV5D, 17-Jan-2023 12:23:20
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

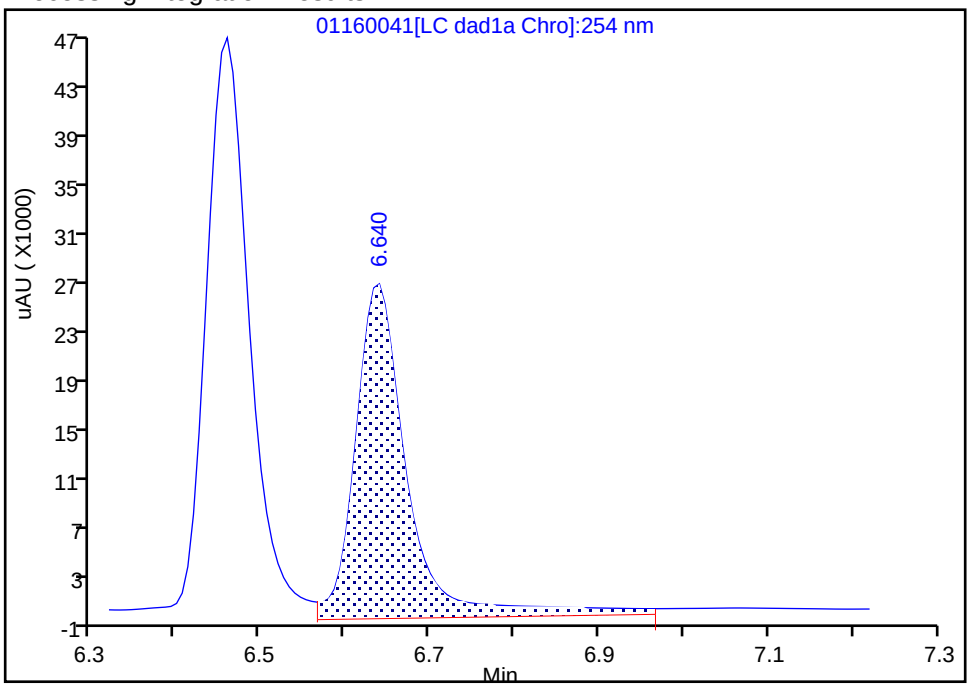
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160041.d				
Injection Date:	17-Jan-2023 01:19:43	Instrument ID:	CHHPLC_X3		
Lims ID:	IC ADD 6				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	44	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 2,4-diamino-6-nitrotoluene, CAS: 6629-29-4

Signal: 1

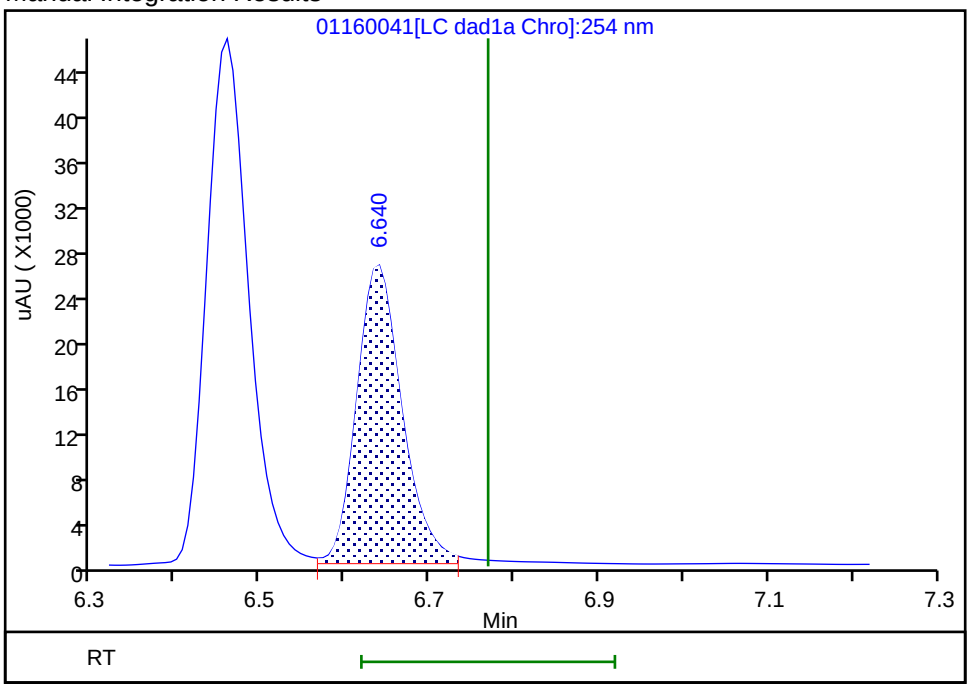
Processing Integration Results

RT: 6.64
Area: 114251
Amount: 0.682909
Amount Units: ug/mL



Manual Integration Results

RT: 6.64
Area: 95423
Amount: 0.651475
Amount Units: ug/mL



Reviewer: LV5D, 17-Jan-2023 12:23:21
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\01160042.D
Lims ID: IC ADD 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 17-Jan-2023 01:43:11 ALS Bottle#: 45 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: ICADD5
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub10

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 17-Jan-2023 12:50:40 Calib Date: 17-Jan-2023 06:47:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\01160055.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1672

First Level Reviewer: LV5D Date: 17-Jan-2023 12:30:57

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 2,6-diamino-4-nitrotoluene	1	6.459	6.455	0.004	94399	0.4000	0.4072	M
5 2,4-diamino-6-nitrotoluene	1	6.639	6.769	-0.130	59001	0.4000	0.4028	M
14 3,5-Dinitroaniline	1	9.806	9.800	0.006	96632	0.4000	0.3953	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330_ADDs_00035 Amount Added: 20.00 Units: uL

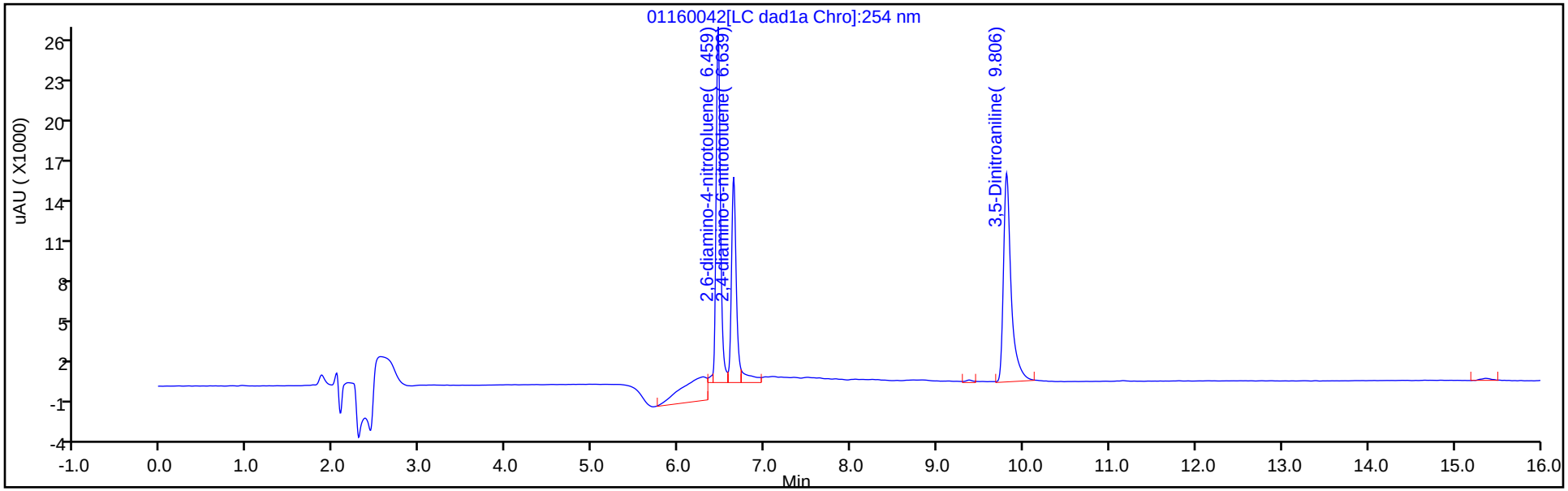
Report Date: 17-Jan-2023 12:50:40 Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Denver

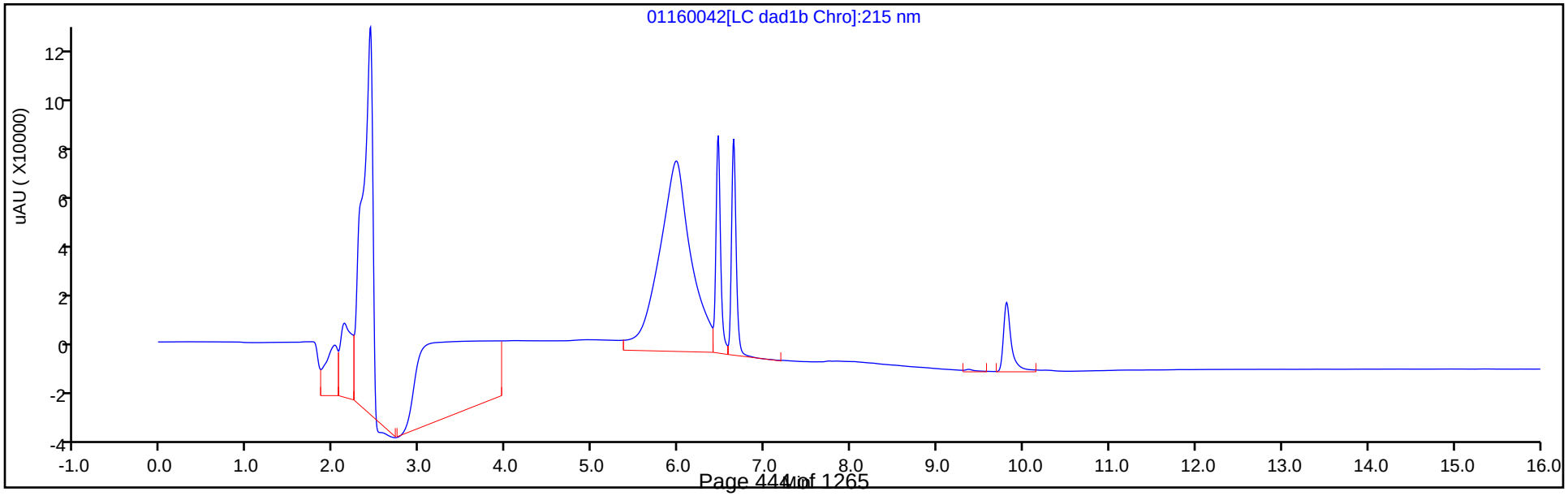
Data File: \\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160042.d

Injection Date:	17-Jan-2023 01:43:11	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC ADD 5			Worklist Smp#:	14
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	45
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

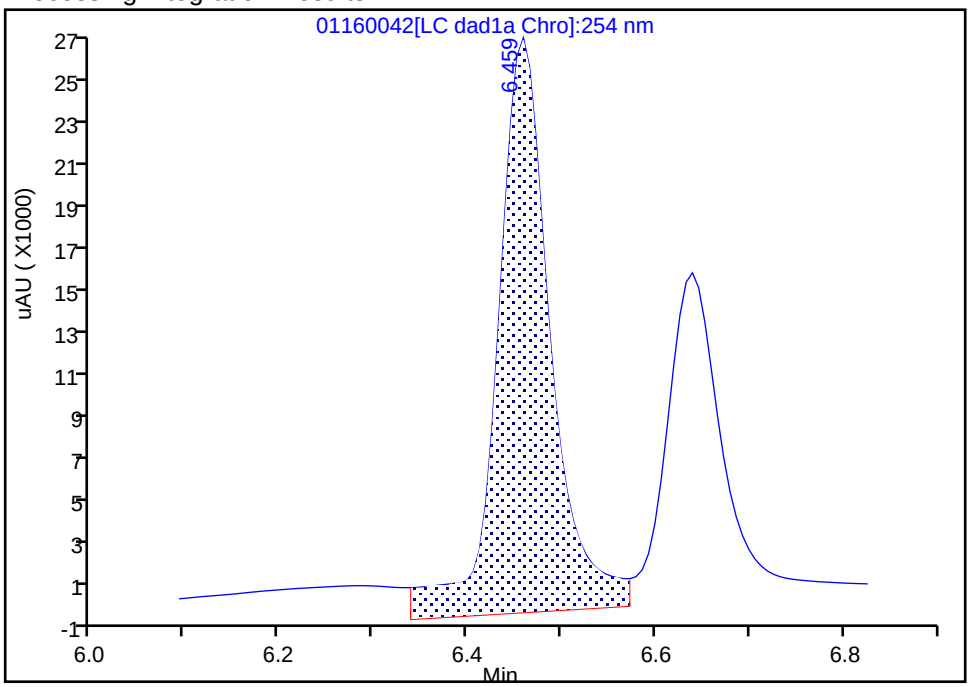
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160042.d				
Injection Date:	17-Jan-2023 01:43:11	Instrument ID:	CHHPLC_X3		
Lims ID:	IC ADD 5				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	45	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 2,6-diamino-4-nitrotoluene, CAS: 59229-75-3

Signal: 1

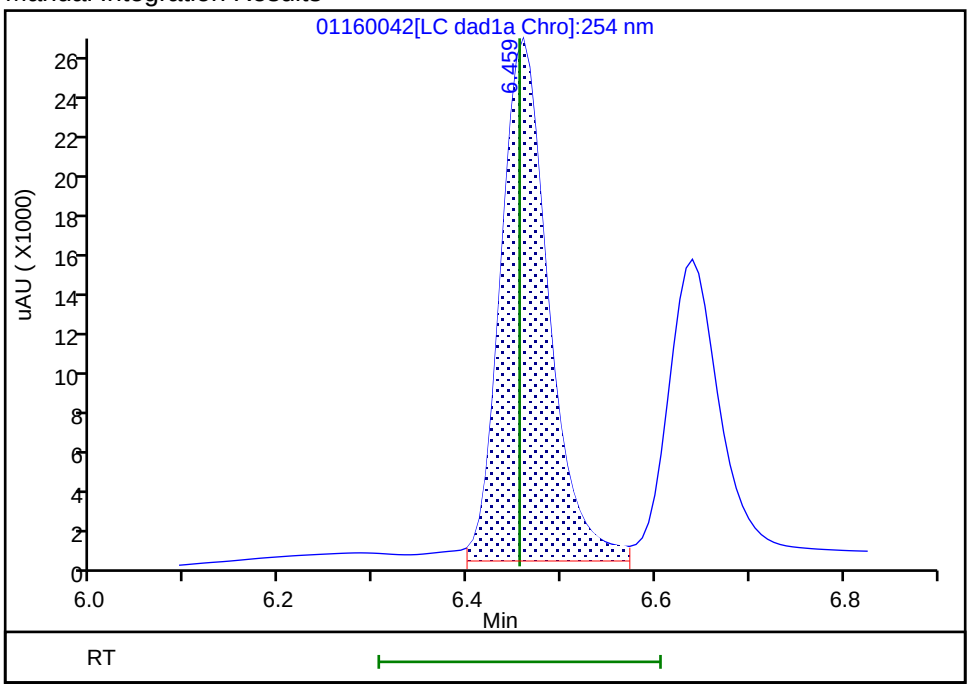
Processing Integration Results

RT: 6.46
Area: 108476
Amount: 0.410648
Amount Units: ug/mL



Manual Integration Results

RT: 6.46
Area: 94399
Amount: 0.407217
Amount Units: ug/mL



Reviewer: LV5D, 17-Jan-2023 12:30:54
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

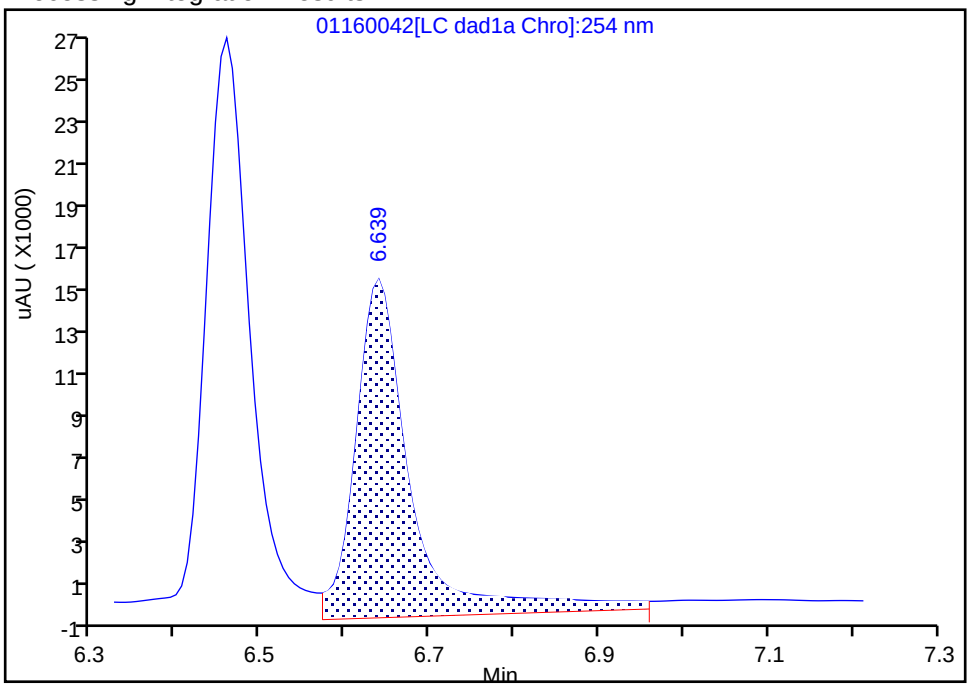
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160042.d				
Injection Date:	17-Jan-2023 01:43:11	Instrument ID:	CHHPLC_X3		
Lims ID:	IC ADD 5				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	45	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 2,4-diamino-6-nitrotoluene, CAS: 6629-29-4

Signal: 1

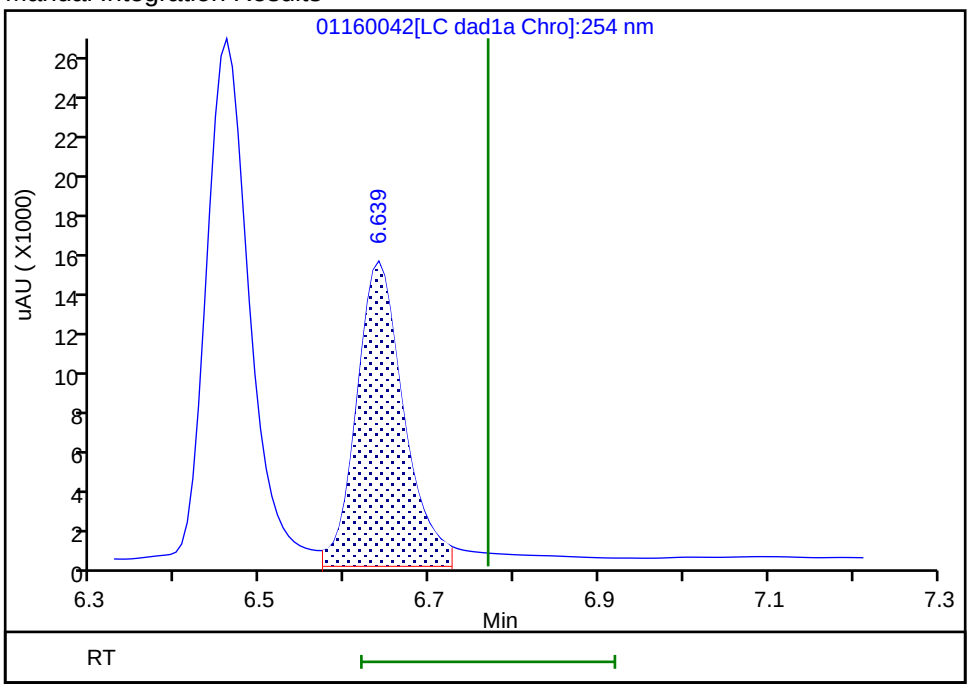
Processing Integration Results

RT: 6.64
Area: 71991
Amount: 0.437489
Amount Units: ug/mL



Manual Integration Results

RT: 6.64
Area: 59001
Amount: 0.402814
Amount Units: ug/mL



Reviewer: LV5D, 17-Jan-2023 12:30:55
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\01160043.D
Lims ID: IC ADD 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 17-Jan-2023 02:06:34 ALS Bottle#: 46 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: ICADD4
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub10

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 17-Jan-2023 12:50:41 Calib Date: 17-Jan-2023 06:47:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\01160055.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1672

First Level Reviewer: LV5D Date: 17-Jan-2023 12:31:13

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 2,6-diamino-4-nitrotoluene	1	6.460	6.455	0.005	56309	0.2500	0.2414	M
5 2,4-diamino-6-nitrotoluene	1	6.640	6.769	-0.129	34670	0.2500	0.2367	M
14 3,5-Dinitroaniline	1	9.800	9.800	0.000	59459	0.2500	0.2439	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330_ADDs_00035 Amount Added: 12.50 Units: uL

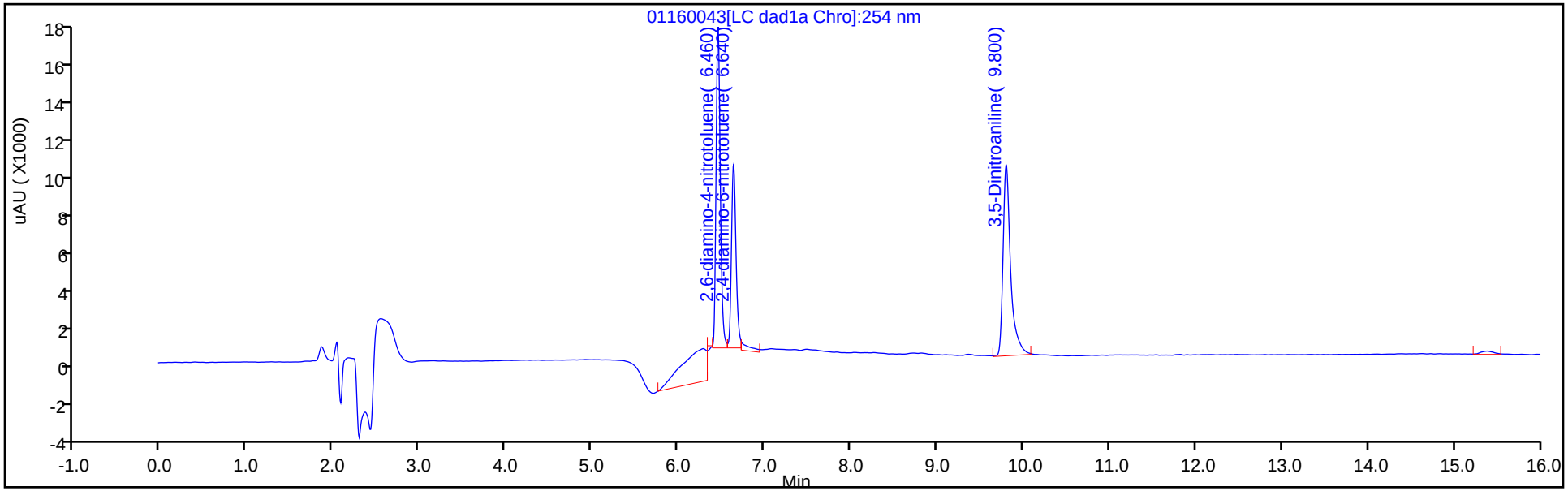
Report Date: 17-Jan-2023 12:50:41 Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Denver

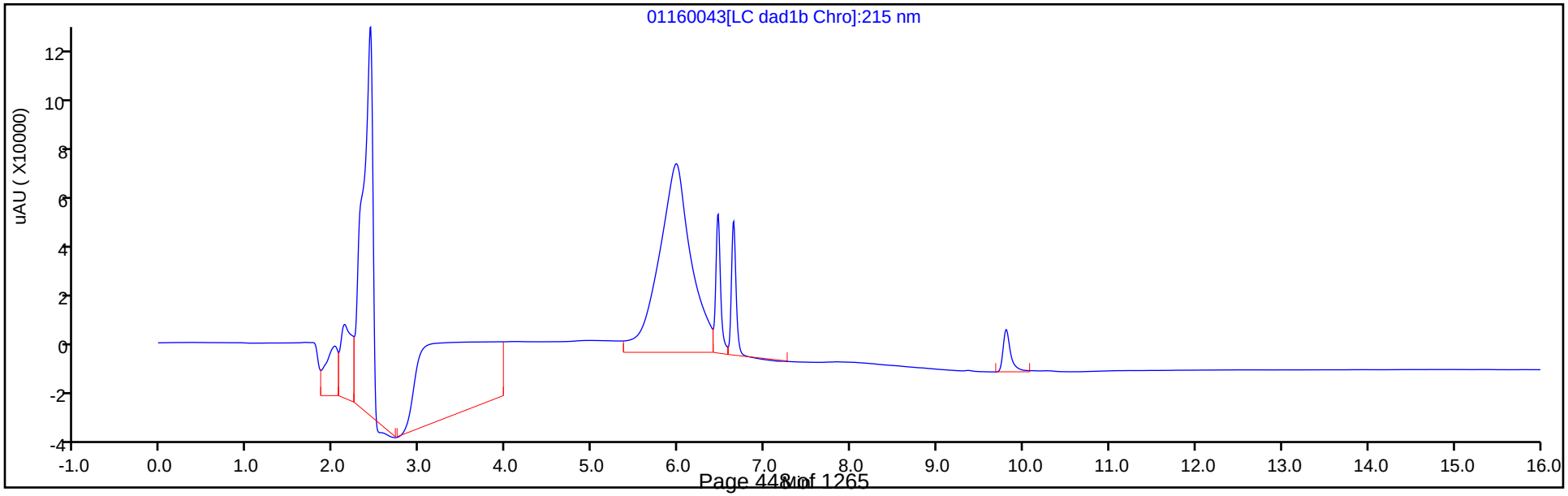
Data File: \\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160043.d

Injection Date:	17-Jan-2023 02:06:34	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC ADD 4			Worklist Smp#:	15
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	46
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

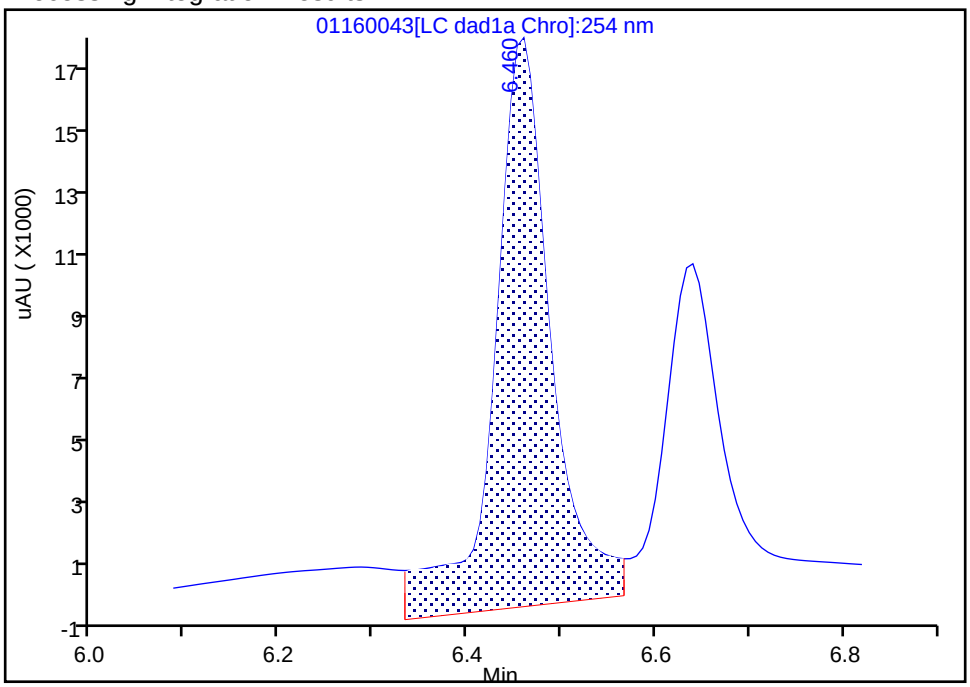
Data File: \\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160043.d
Injection Date: 17-Jan-2023 02:06:34 Instrument ID: CHHPLC_X3
Lims ID: IC ADD 4
Client ID:
Operator ID: JZ/MAR ALS Bottle#: 46 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 2,6-diamino-4-nitrotoluene, CAS: 59229-75-3

Signal: 1

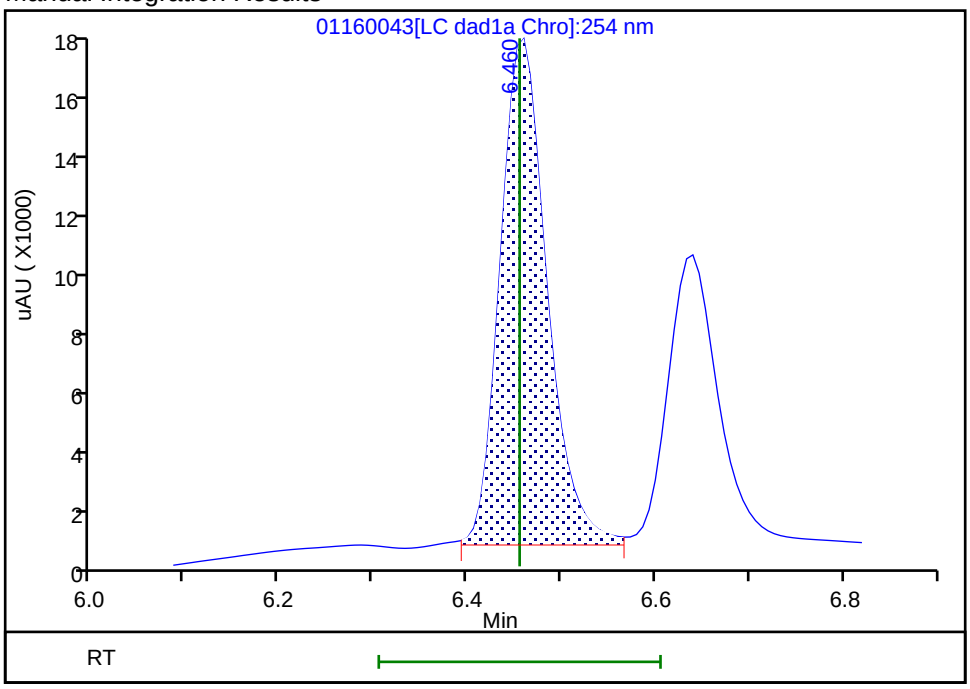
Processing Integration Results

RT: 6.46
Area: 74424
Amount: 0.275328
Amount Units: ug/mL



Manual Integration Results

RT: 6.46
Area: 56309
Amount: 0.241387
Amount Units: ug/mL



Reviewer: LV5D, 17-Jan-2023 12:31:11
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

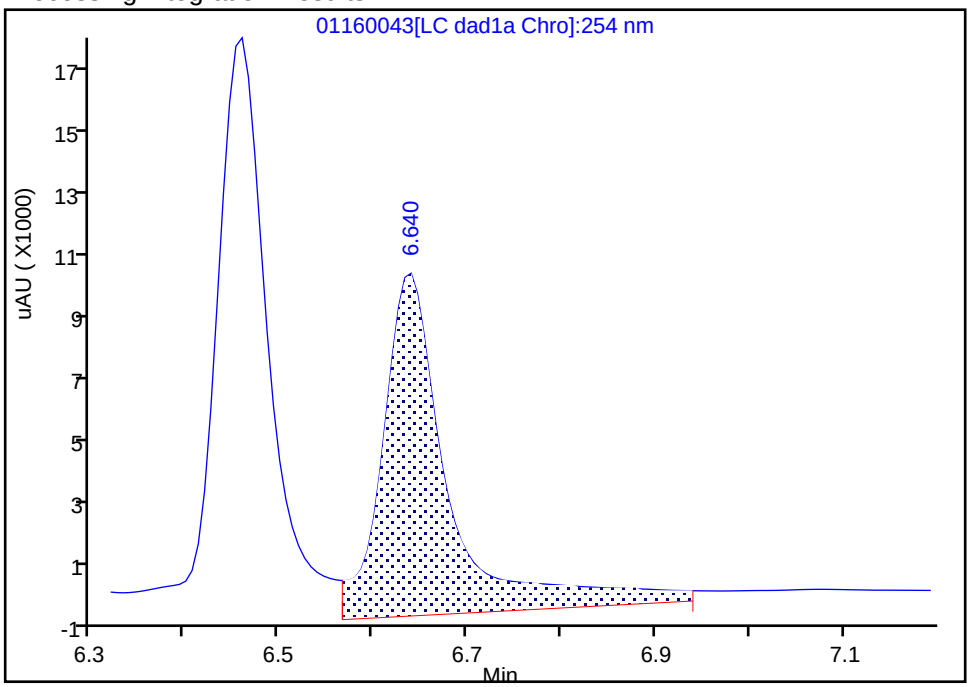
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160043.d				
Injection Date:	17-Jan-2023 02:06:34	Instrument ID:	CHHPLC_X3		
Lims ID:	IC ADD 4				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	46	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 2,4-diamino-6-nitrotoluene, CAS: 6629-29-4

Signal: 1

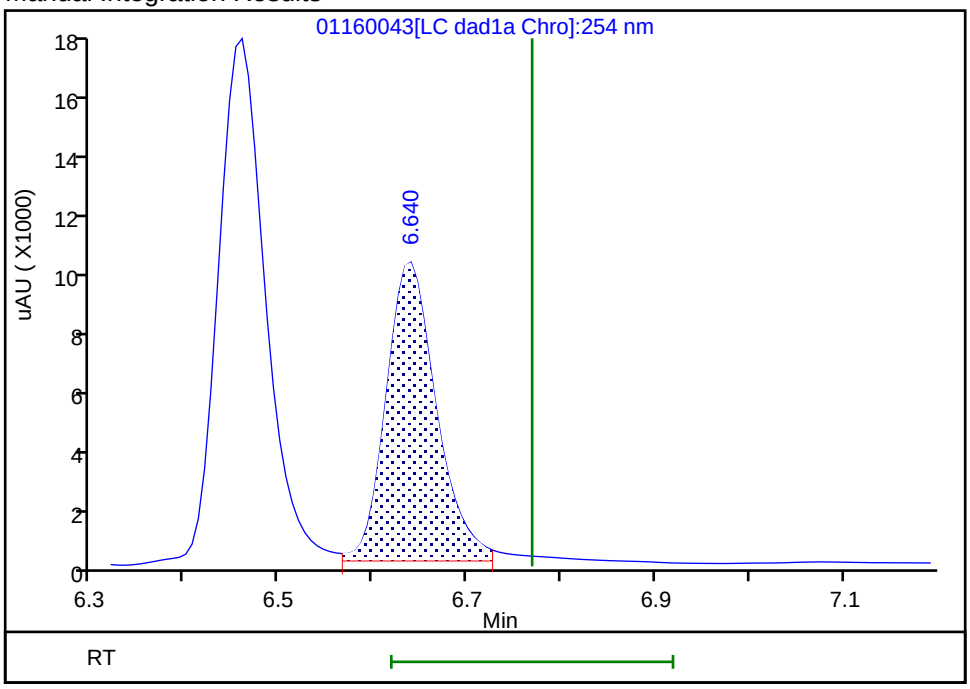
Processing Integration Results

RT: 6.64
Area: 50478
Amount: 0.310727
Amount Units: ug/mL



Manual Integration Results

RT: 6.64
Area: 34670
Amount: 0.236700
Amount Units: ug/mL



Reviewer: LV5D, 17-Jan-2023 12:31:11
Audit Action: Assigned New Baseline Audit Reason: Baseline

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\01160044.D
Lims ID: IC ADD 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 17-Jan-2023 02:30:00 ALS Bottle#: 47 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: ICADD3
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub10

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 17-Jan-2023 12:50:41 Calib Date: 17-Jan-2023 06:47:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\01160055.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1672

First Level Reviewer: LV5D Date: 17-Jan-2023 12:31:24

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 2,6-diamino-4-nitrotoluene	1	6.459	6.455	0.004	24702	0.1000	0.1038	M
5 2,4-diamino-6-nitrotoluene	1	6.632	6.769	-0.137	14908	0.1000	0.1018	M
14 3,5-Dinitroaniline	1	9.812	9.800	0.012	24604	0.1000	0.1019	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330_ADDs_00035 Amount Added: 5.00 Units: uL

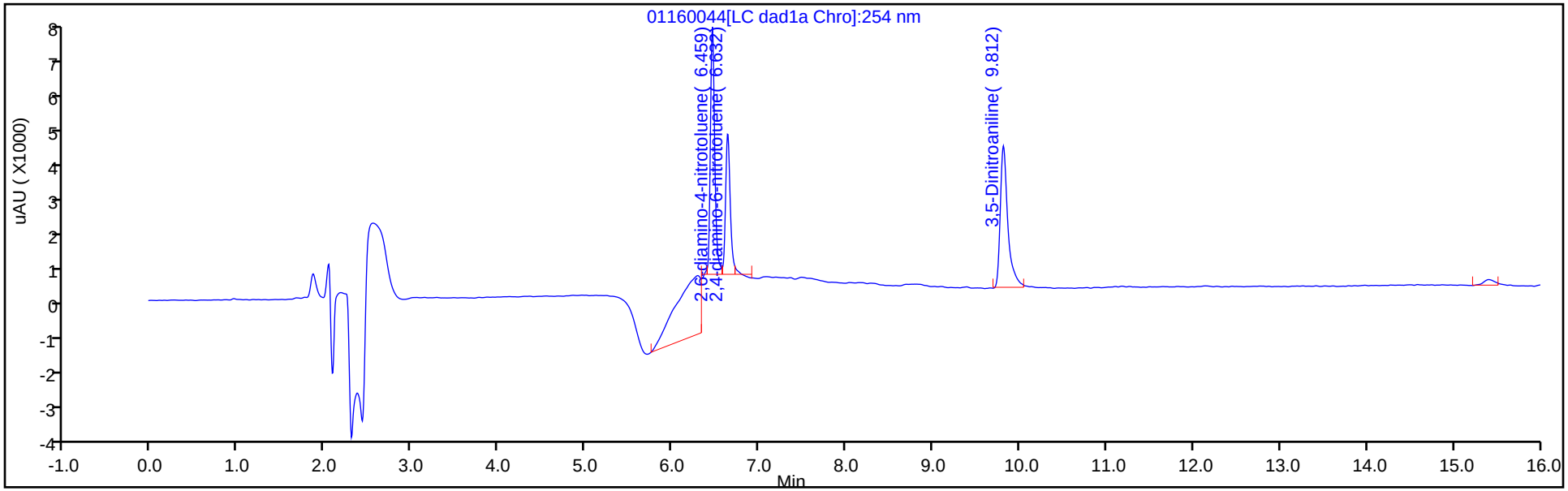
Report Date: 17-Jan-2023 12:50:41 Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Denver

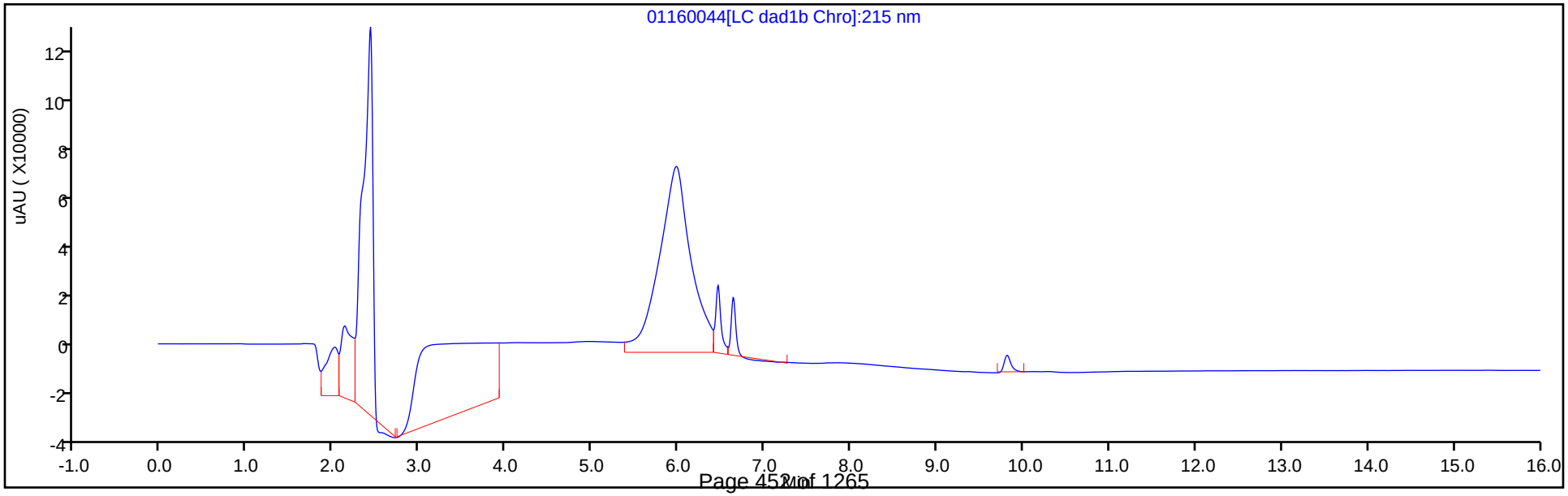
Data File: \\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160044.d

Injection Date:	17-Jan-2023 02:30:00	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC ADD 3			Worklist Smp#:	16
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	47
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

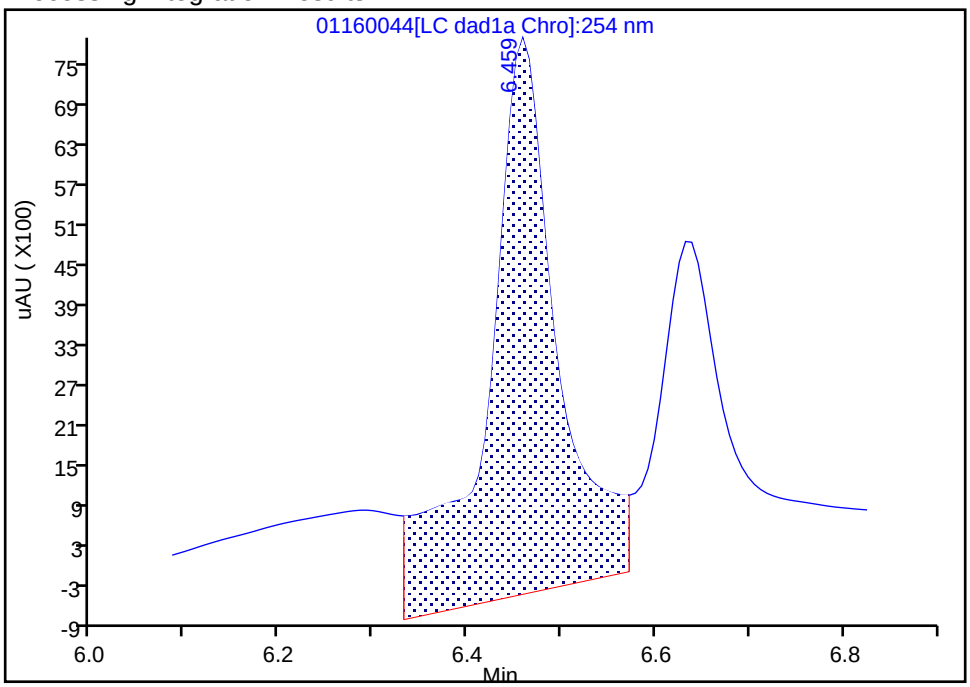
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160044.d				
Injection Date:	17-Jan-2023 02:30:00	Instrument ID:	CHHPLC_X3		
Lims ID:	IC ADD 3				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	47	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 2,6-diamino-4-nitrotoluene, CAS: 59229-75-3

Signal: 1

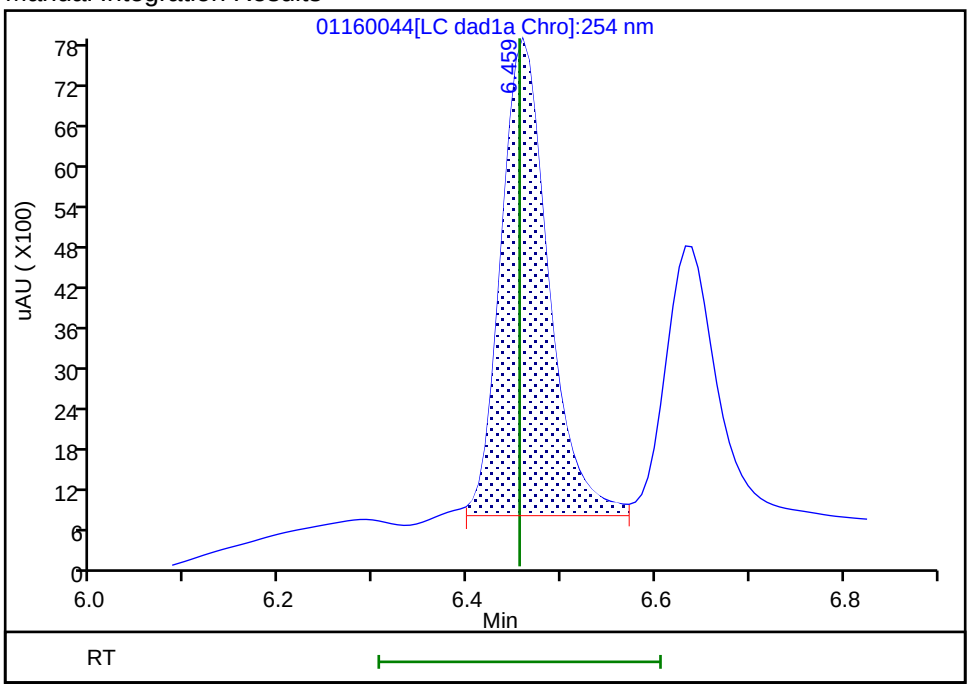
Processing Integration Results

RT: 6.46
Area: 43811
Amount: 0.142153
Amount Units: ug/mL



Manual Integration Results

RT: 6.46
Area: 24702
Amount: 0.103781
Amount Units: ug/mL



Reviewer: LV5D, 17-Jan-2023 12:31:22

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

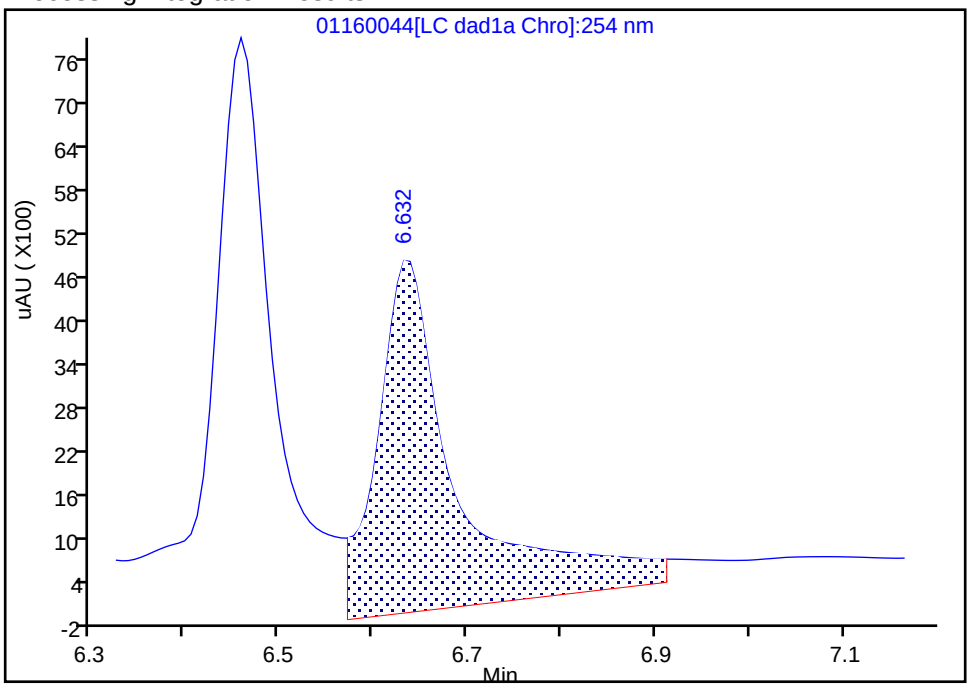
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160044.d				
Injection Date:	17-Jan-2023 02:30:00	Instrument ID:	CHHPLC_X3		
Lims ID:	IC ADD 3				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	47	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 2,4-diamino-6-nitrotoluene, CAS: 6629-29-4

Signal: 1

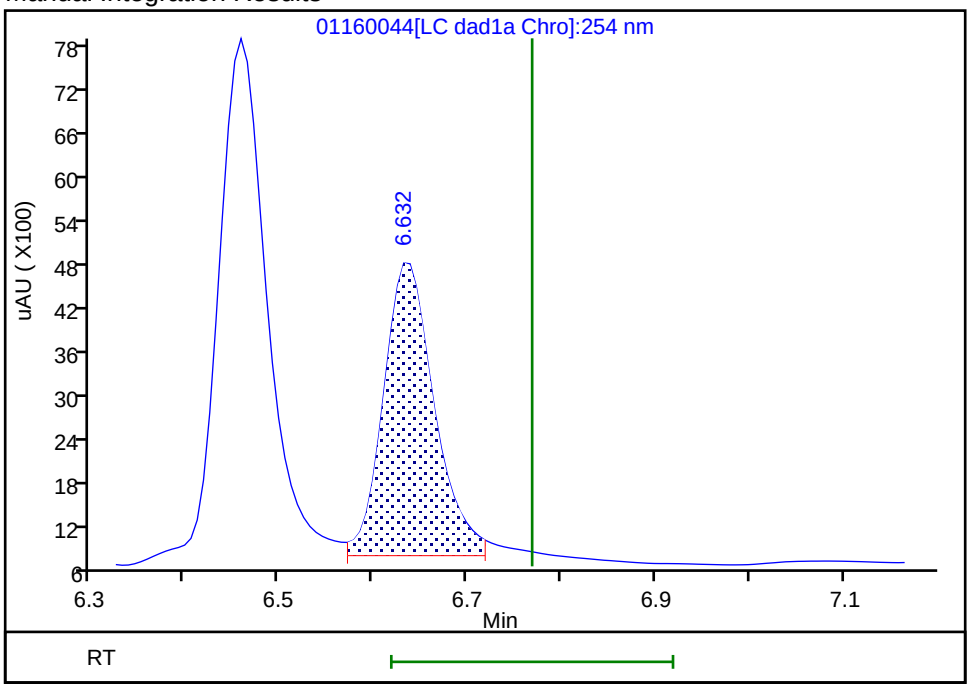
Processing Integration Results

RT: 6.63
Area: 28852
Amount: 0.169920
Amount Units: ug/mL



Manual Integration Results

RT: 6.63
Area: 14908
Amount: 0.101780
Amount Units: ug/mL



Reviewer: LV5D, 17-Jan-2023 12:31:22

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\01160045.D
Lims ID: IC ADD 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 17-Jan-2023 02:53:21 ALS Bottle#: 48 Worklist Smp#: 17
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: ICADD2
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub10

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 17-Jan-2023 12:50:42 Calib Date: 17-Jan-2023 06:47:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\01160055.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1672

First Level Reviewer: LV5D Date: 17-Jan-2023 12:31:36

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 2,6-diamino-4-nitrotoluene	1	6.459	6.455	0.004	13039	0.0500	0.0530	M
5 2,4-diamino-6-nitrotoluene	1	6.639	6.769	-0.130	8175	0.0500	0.0558	M
14 3,5-Dinitroaniline	1	9.798	9.800	-0.002	12600	0.0500	0.0529	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330_ADDs_00035 Amount Added: 2.50 Units: uL

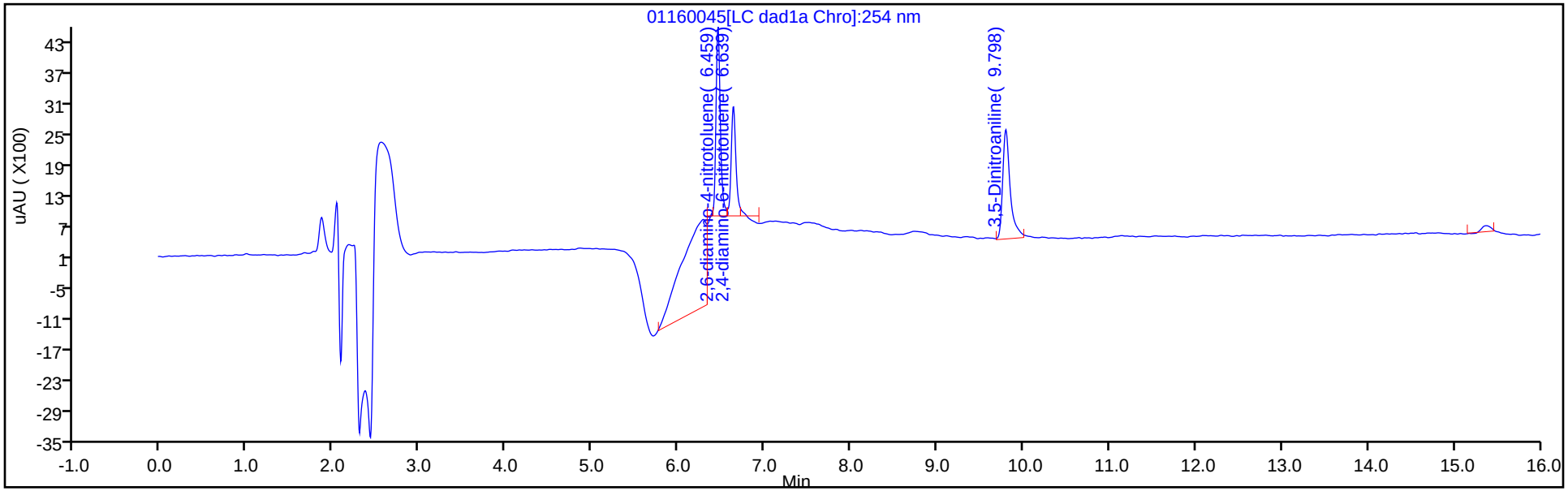
Report Date: 17-Jan-2023 12:50:42 Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Denver

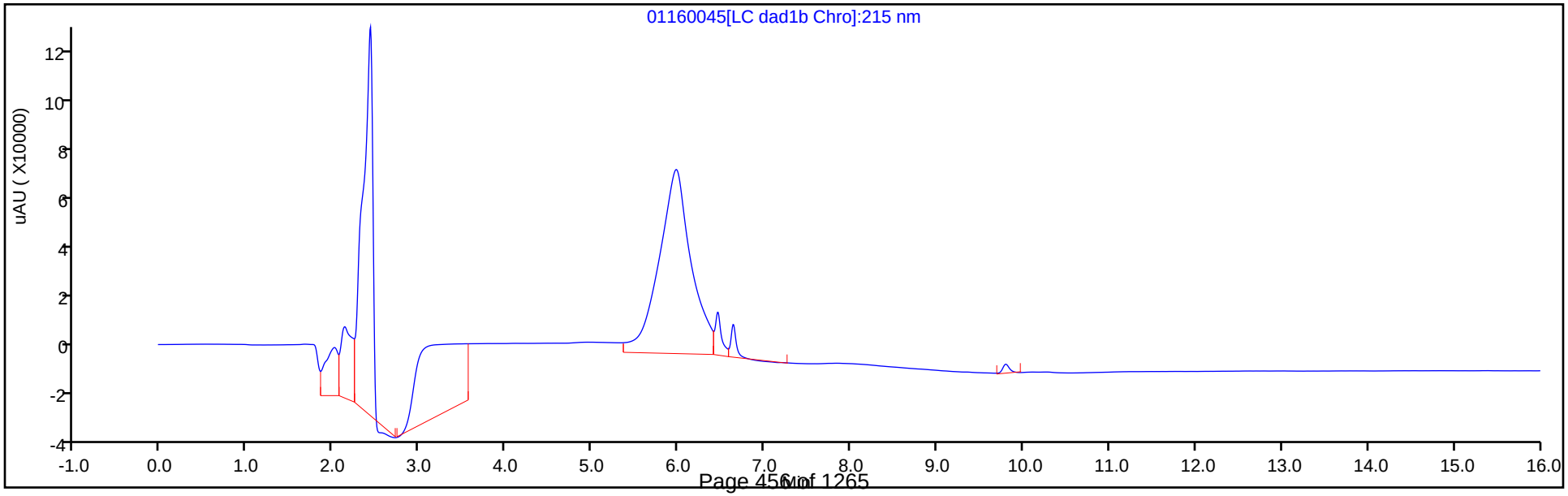
Data File: \\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160045.d

Injection Date:	17-Jan-2023 02:53:21	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC ADD 2			Worklist Smp#:	17
Client ID:					
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



Manual Integration/User Assign Peak Report

Eurofins Denver

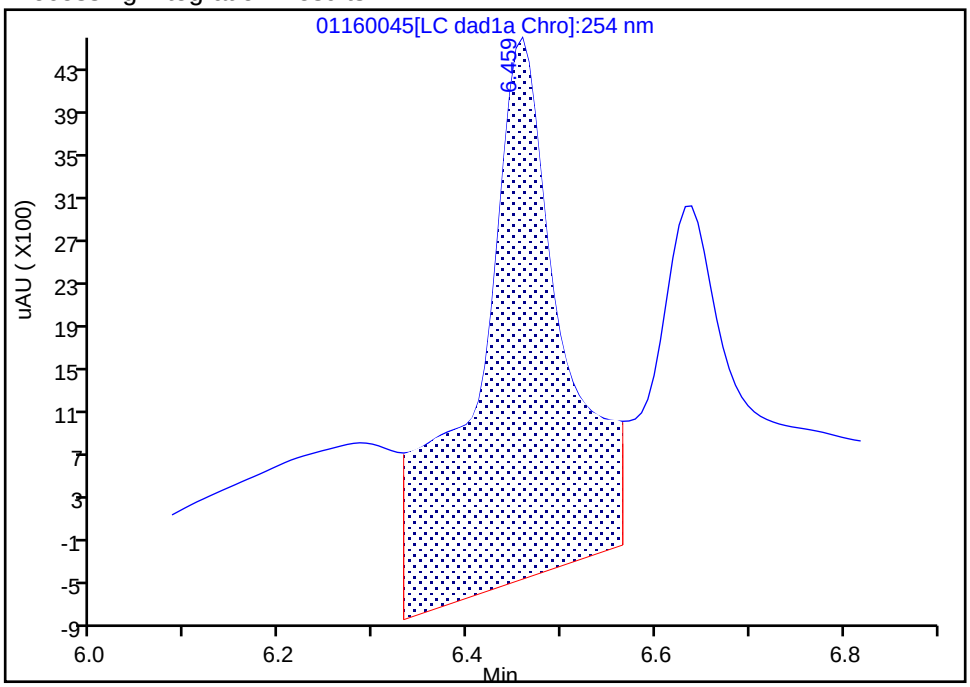
Data File: \\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160045.d
Injection Date: 17-Jan-2023 02:53:21 Instrument ID: CHHPLC_X3
Lims ID: IC ADD 2
Client ID:
Operator ID: JZ/MAR ALS Bottle#: 48 Worklist Smp#: 17
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 2,6-diamino-4-nitrotoluene, CAS: 59229-75-3

Signal: 1

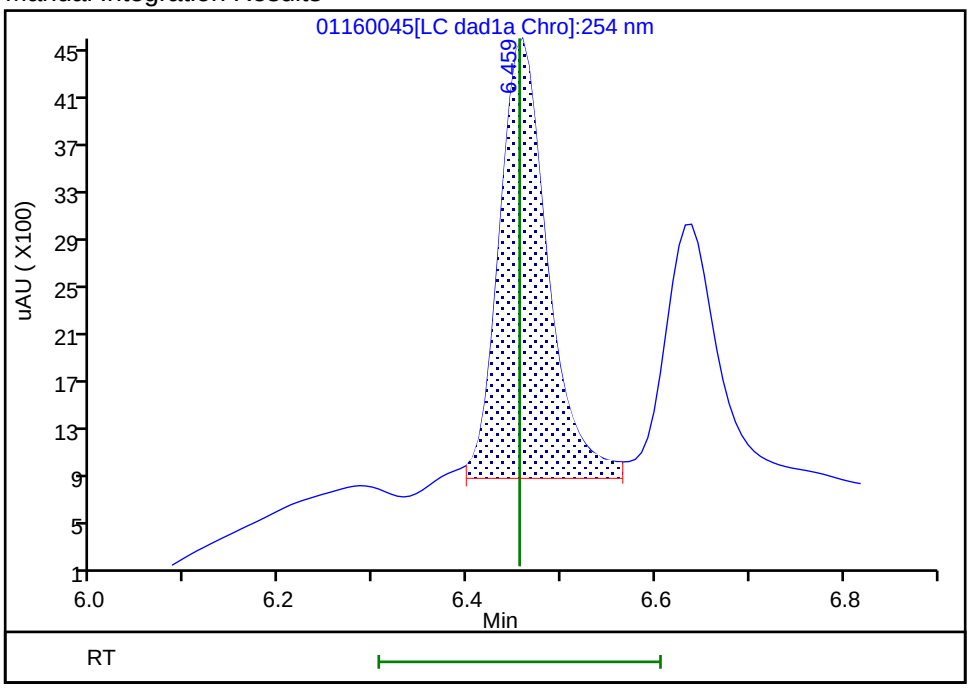
Processing Integration Results

RT: 6.46
Area: 31801
Amount: 0.089109
Amount Units: ug/mL



Manual Integration Results

RT: 6.46
Area: 13039
Amount: 0.053005
Amount Units: ug/mL



Reviewer: LV5D, 17-Jan-2023 12:31:33
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

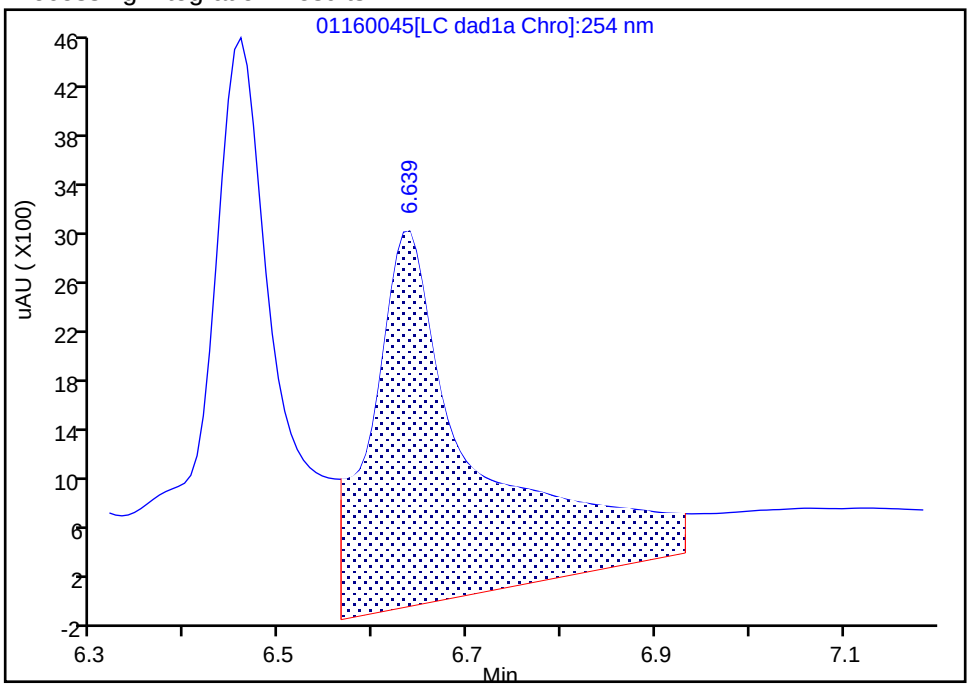
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160045.d				
Injection Date:	17-Jan-2023 02:53:21	Instrument ID:	CHHPLC_X3		
Lims ID:	IC ADD 2				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	48	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 2,4-diamino-6-nitrotoluene, CAS: 6629-29-4

Signal: 1

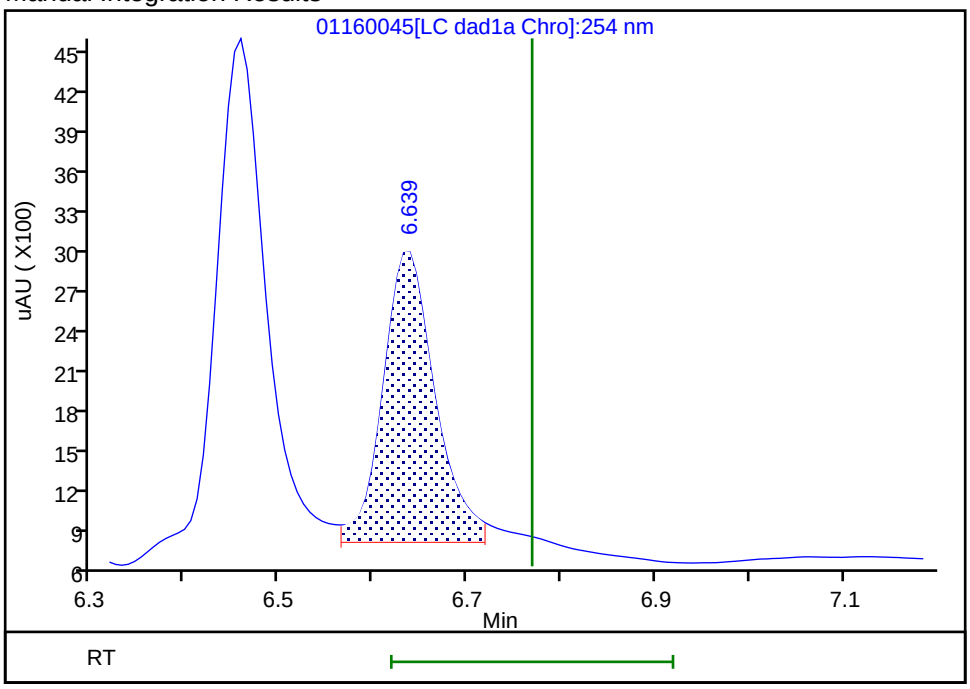
Processing Integration Results

RT: 6.64
Area: 23838
Amount: 0.125460
Amount Units: ug/mL



Manual Integration Results

RT: 6.64
Area: 8175
Amount: 0.055813
Amount Units: ug/mL



Reviewer: LV5D, 17-Jan-2023 12:31:34
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\01160046.D
Lims ID: IC ADD 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 17-Jan-2023 03:16:44 ALS Bottle#: 49 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: ICADD1
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub10

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 17-Jan-2023 12:50:42 Calib Date: 17-Jan-2023 06:47:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\01160055.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1672

First Level Reviewer: LV5D Date: 17-Jan-2023 12:31:50

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 2,6-diamino-4-nitrotoluene	1	6.459	6.455	0.004	5326	0.0200	0.0194	M
5 2,4-diamino-6-nitrotoluene	1	6.639	6.769	-0.130	3042	0.0200	0.0208	M
14 3,5-Dinitroaniline	1	9.805	9.800	0.005	4397	0.0200	0.0195	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330_ADDs_00035 Amount Added: 1.00 Units: uL

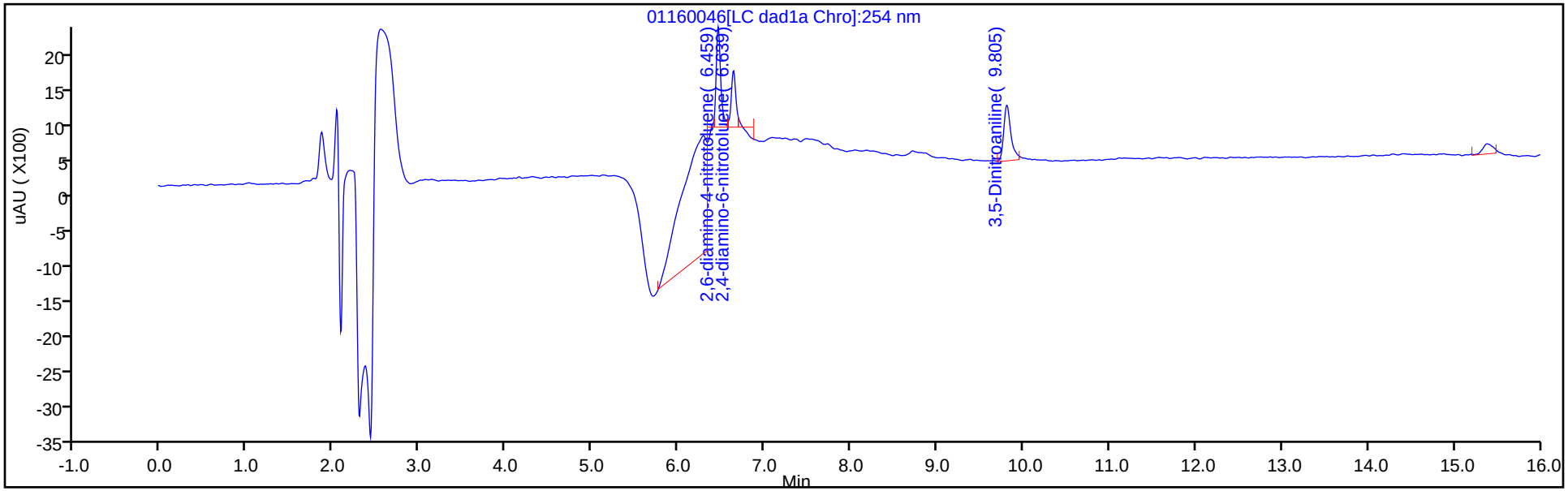
Report Date: 17-Jan-2023 12:50:42 Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Denver

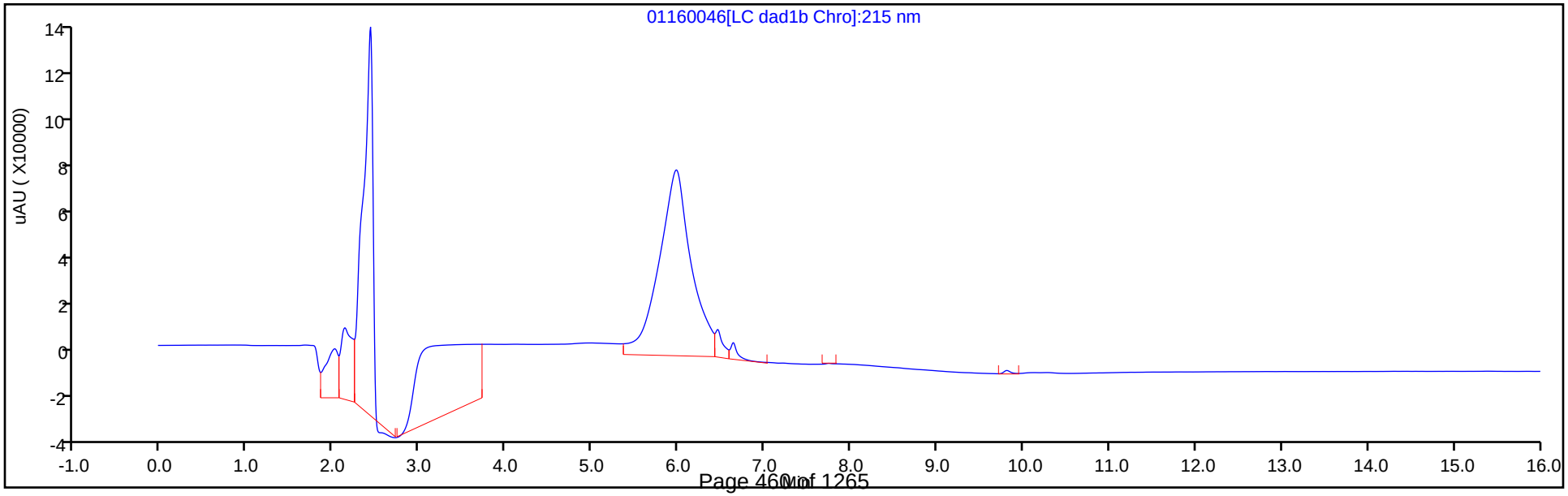
Data File: \\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160046.d

Injection Date:	17-Jan-2023 03:16:44	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC ADD 1			Worklist Smp#:	18
Client ID:					
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



Manual Integration/User Assign Peak Report

Eurofins Denver

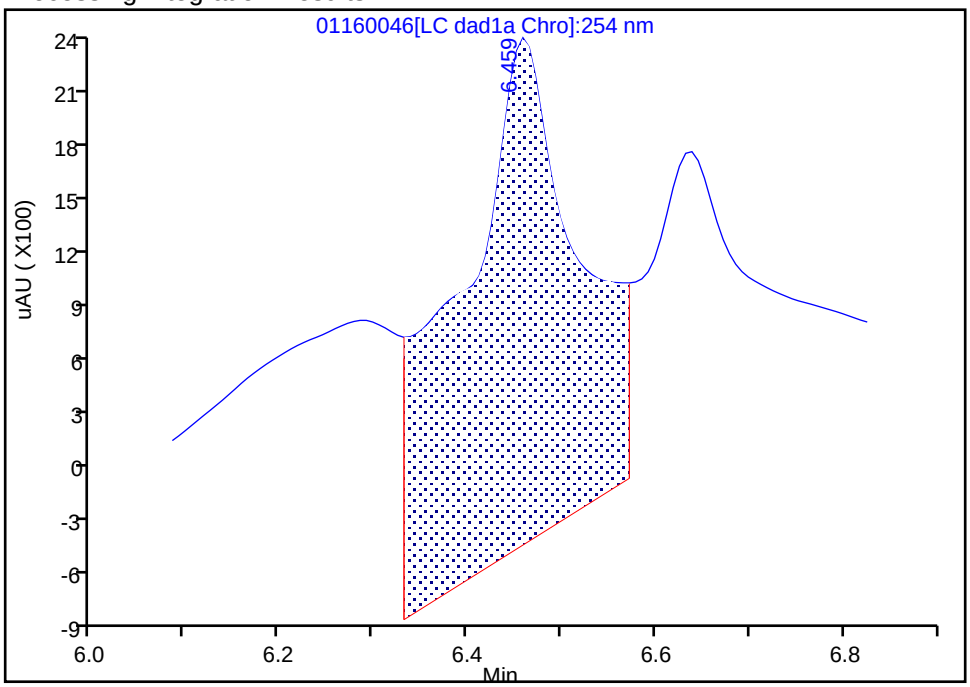
Data File: \\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160046.d
Injection Date: 17-Jan-2023 03:16:44 Instrument ID: CHHPLC_X3
Lims ID: IC ADD 1
Client ID:
Operator ID: JZ/MAR ALS Bottle#: 49 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 2,6-diamino-4-nitrotoluene, CAS: 59229-75-3

Signal: 1

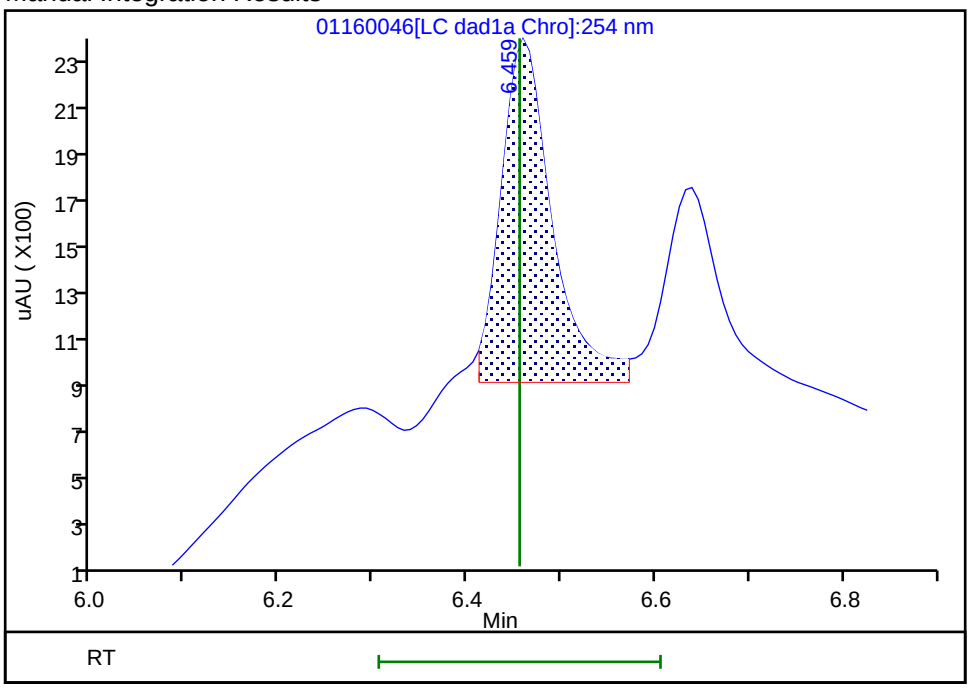
Processing Integration Results

RT: 6.46
Area: 24501
Amount: 0.068213
Amount Units: ug/mL



Manual Integration Results

RT: 6.46
Area: 5326
Amount: 0.019425
Amount Units: ug/mL



Reviewer: LV5D, 17-Jan-2023 12:31:46
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

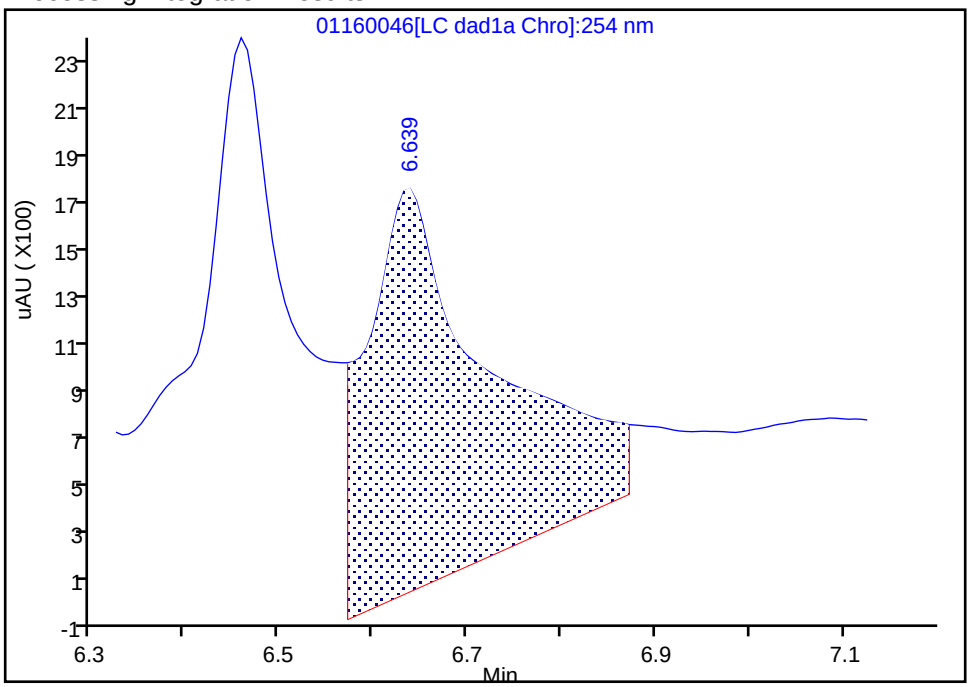
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160046.d				
Injection Date:	17-Jan-2023 03:16:44	Instrument ID:	CHHPLC_X3		
Lims ID:	IC ADD 1				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	49	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 2,4-diamino-6-nitrotoluene, CAS: 6629-29-4

Signal: 1

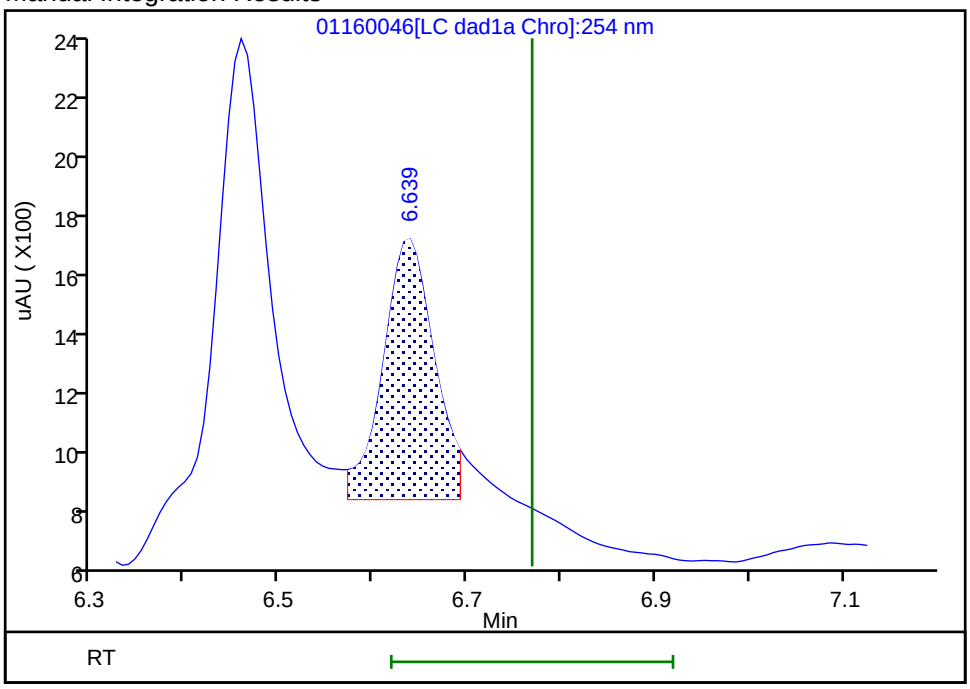
Processing Integration Results

RT: 6.64
Area: 15283
Amount: 0.068540
Amount Units: ug/mL



Manual Integration Results

RT: 6.64
Area: 3042
Amount: 0.020768
Amount Units: ug/mL



Reviewer: LV5D, 17-Jan-2023 12:31:48
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Calibration / 2,6-diamino-4-nitrotoluene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

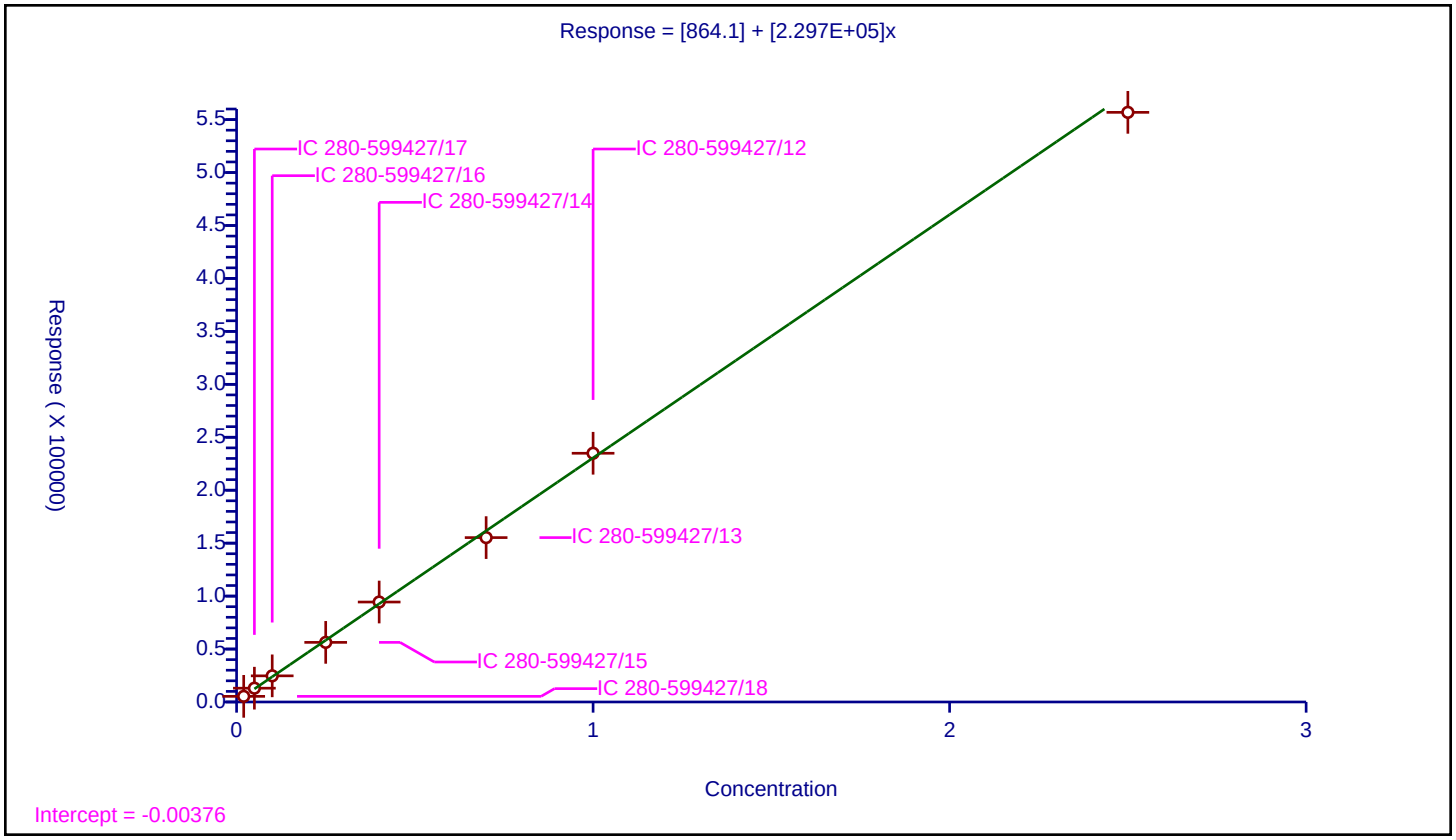
Curve Coefficients

Intercept:	864.1
Slope:	2.297E+05

Error Coefficients

Standard Error:	8170
Relative Standard Error:	4.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-599427/18	0.02	5326.0			266300.0	Y
2	IC 280-599427/17	0.05	13039.0			260780.0	Y
3	IC 280-599427/16	0.1	24702.0			247020.0	Y
4	IC 280-599427/15	0.25	56309.0			225236.0	Y
5	IC 280-599427/14	0.4	94399.0			235997.5	Y
6	IC 280-599427/13	0.7	155237.0			221767.142857	Y
7	IC 280-599427/12	1.0	234891.0			234891.0	Y
8	IC 280-599427/11	2.5	556860.0			222744.0	Y



Calibration / 2,4-diamino-6-nitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

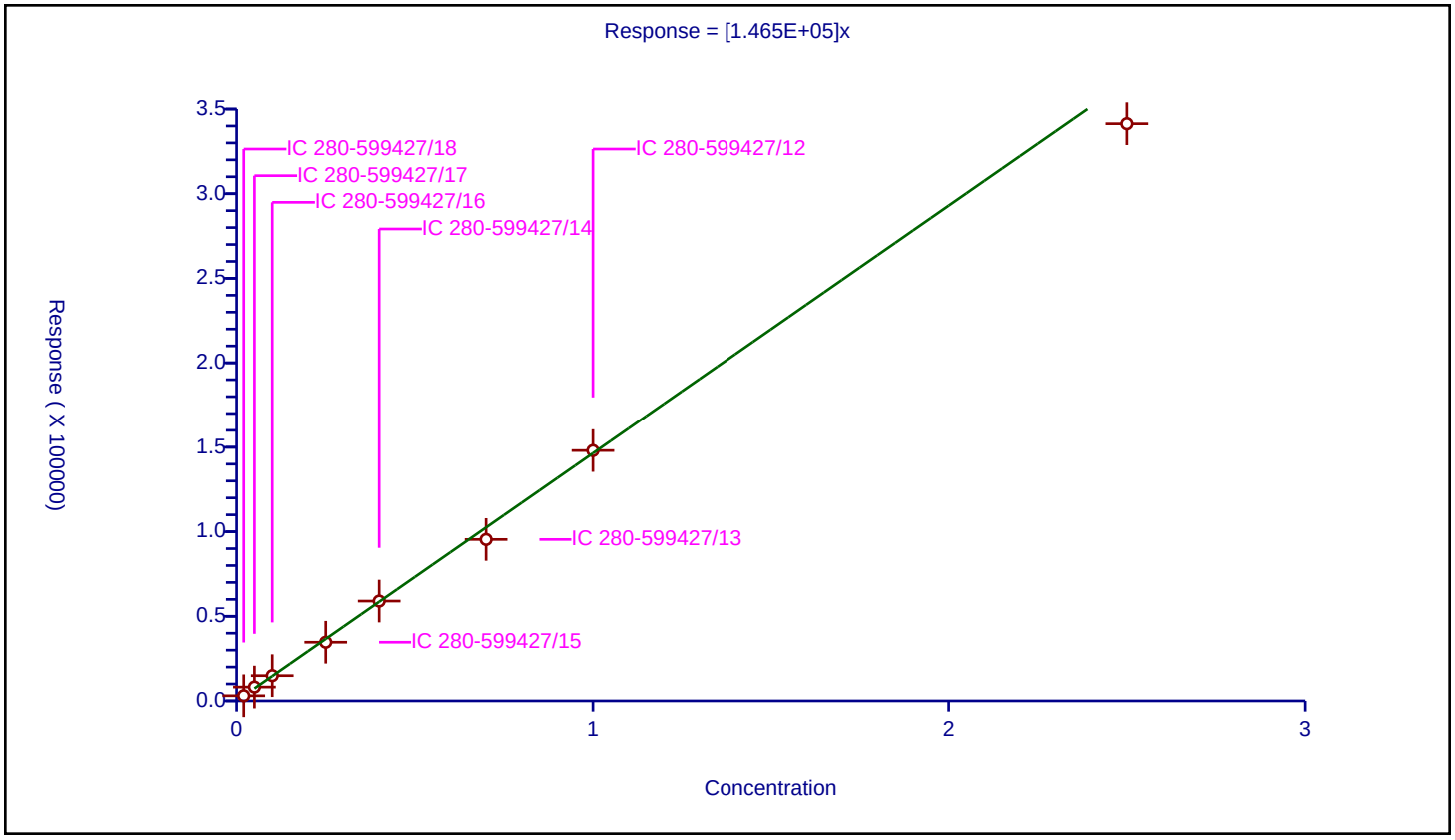
Curve Coefficients

Intercept:	0
Slope:	1.465E+05

Error Coefficients

Standard Error:	9810
Relative Standard Error:	6.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-599427/18	0.02	3042.0			152100.0	Y
2	IC 280-599427/17	0.05	8175.0			163500.0	Y
3	IC 280-599427/16	0.1	14908.0			149080.0	Y
4	IC 280-599427/15	0.25	34670.0			138680.0	Y
5	IC 280-599427/14	0.4	59001.0			147502.5	Y
6	IC 280-599427/13	0.7	95423.0			136318.571429	Y
7	IC 280-599427/12	1.0	148050.0			148050.0	Y
8	IC 280-599427/11	2.5	341365.0			136546.0	Y



Calibration / 3,5-Dinitroaniline

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

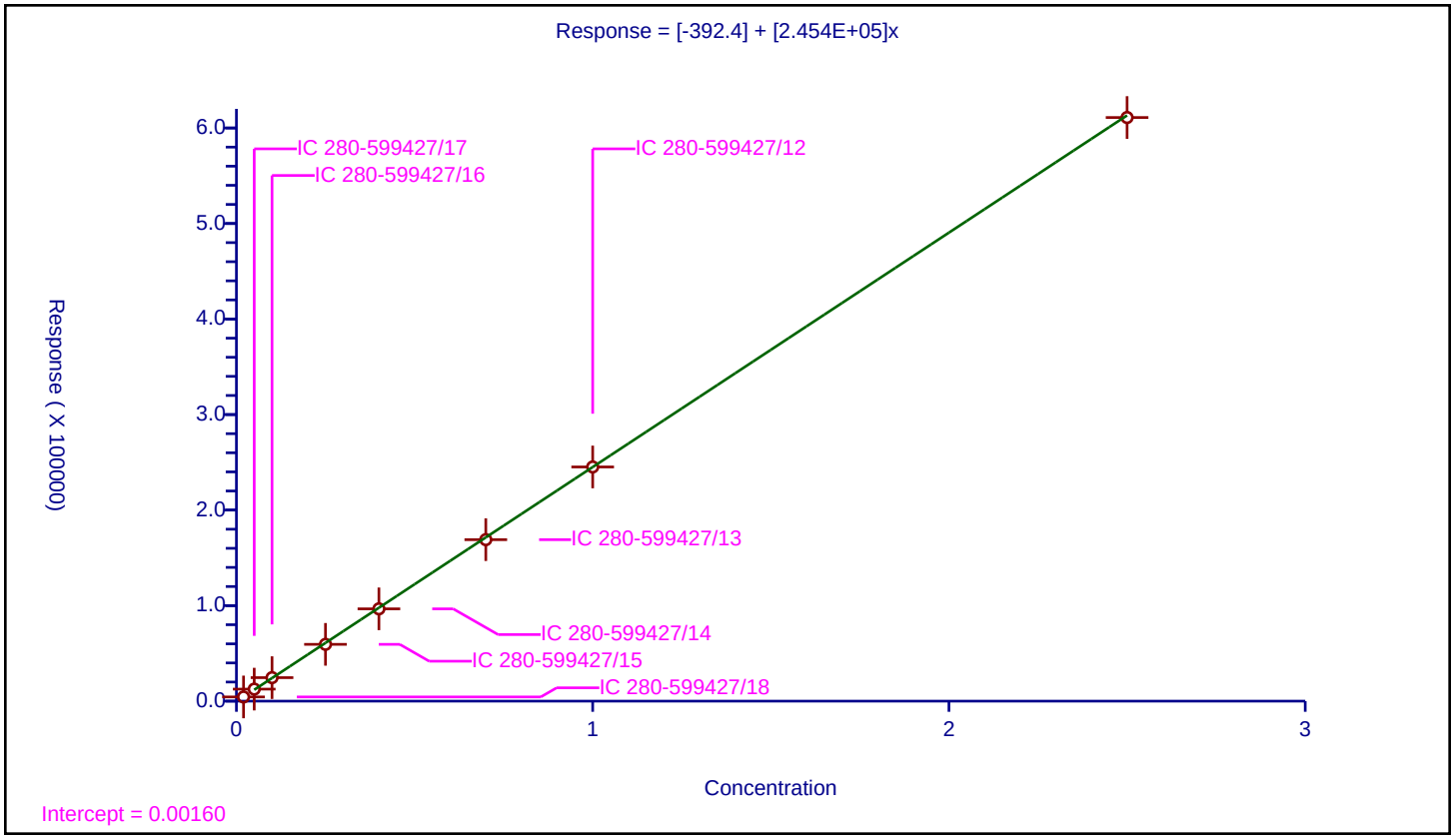
Curve Coefficients

Intercept:	-392.4
Slope:	2.454E+05

Error Coefficients

Standard Error:	1570
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-599427/18	0.02	4397.0			219850.0	Y
2	IC 280-599427/17	0.05	12600.0			252000.0	Y
3	IC 280-599427/16	0.1	24604.0			246040.0	Y
4	IC 280-599427/15	0.25	59459.0			237836.0	Y
5	IC 280-599427/14	0.4	96632.0			241580.0	Y
6	IC 280-599427/13	0.7	169039.0			241484.285714	Y
7	IC 280-599427/12	1.0	245164.0			245164.0	Y
8	IC 280-599427/11	2.5	610953.0			244381.2	Y



FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1 Analy Batch No.: 601664

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2023 15:38 Calibration End Date: 02/08/2023 18:42 Calibration ID: 76877

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-601664/19	02080019.D
Level 2	IC 280-601664/18	02080018.D
Level 3	IC 280-601664/17	02080017.D
Level 4	IC 280-601664/16	02080016.D
Level 5	IC 280-601664/15	02080015.D
Level 6	IC 280-601664/14	02080014.D
Level 7	IC 280-601664/13	02080013.D
Level 8	IC 280-601664/12	02080012.D
Level 9	IC 280-601664/11	02080011.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	6.550	6.549	6.547	6.544	6.548	6.548	6.544	6.547	6.546		6.394 - 6.694	6.547
RDX	7.563	7.563	7.567	7.564	7.568	7.562	7.564	7.567	7.559		7.414 - 7.714	7.564
Picric acid	8.050	8.049	8.047	8.044	8.041	8.028	8.018	8.014	7.966		7.894 - 8.194	8.029
1,3,5-Trinitrobenzene	8.643	8.643	8.647	8.644	8.641	8.642	8.638	8.647	8.639		8.494 - 8.794	8.643
1,3-Dinitrobenzene	9.263	9.256	9.260	9.257	9.255	9.255	9.251	9.260	9.246		9.107 - 9.407	9.256
Nitrobenzene	9.636	9.636	9.633	9.631	9.628	9.628	9.624	9.634	9.619		9.481 - 9.781	9.630
3,5-Dinitroaniline	9.836	9.836	9.840	9.831	9.828	9.828	9.824	9.840	9.819		9.681 - 9.981	9.831
Tetryl	9.983	9.982	9.987	9.977	9.975	9.968	9.971	9.987	9.966		9.827 - 10.127	9.977
Nitroglycerin	10.450	10.449	10.453	10.437	10.441	10.435	10.437	10.454	10.426		10.287 - 10.587	10.442
2,4,6-Trinitrotoluene	10.876	10.876	10.880	10.864	10.868	10.868	10.864	10.880	10.859		10.764 - 10.964	10.871
4-Amino-2,6-dinitrotoluene	11.043	11.042	11.040	11.031	11.028	11.022	11.024	11.040	11.013		10.931 - 11.131	11.031
2-Amino-4,6-dinitrotoluene	11.296	11.289	11.293	11.277	11.275	11.275	11.271	11.287	11.259		11.177 - 11.377	11.280
2,6-Dinitrotoluene	11.470	11.469	11.467	11.451	11.455	11.448	11.451	11.467	11.439		11.351 - 11.551	11.457
2,4-Dinitrotoluene	11.636	11.636	11.633	11.617	11.621	11.615	11.617	11.634	11.606		11.517 - 11.717	11.624
2-Nitrotoluene	12.456	12.456	12.453	12.437	12.441	12.435	12.431	12.447	12.426		12.287 - 12.587	12.442
4-Nitrotoluene	12.863	12.869	12.867	12.844	12.848	12.842	12.844	12.860	12.833		12.694 - 12.994	12.852
3-Nitrotoluene	13.430	13.442	13.433	13.411	13.415	13.408	13.404	13.420	13.399		13.261 - 13.561	13.418
PETN	14.583	14.589	14.580	14.551	14.555	14.548	14.544	14.567	14.539		14.401 - 14.701	14.562
1,2-Dinitrobenzene	8.517	8.516	8.520	8.517	8.515	8.515	8.511	8.521	8.506		8.367 - 8.667	8.515

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver | Job No.: 280-176591-1 | Analy Batch No.: 601664

SDG No.:

Instrument ID: CHHPLC_X3 | GC Column: UltraCarb5u ID: 4.6(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2023 15:38 | Calibration End Date: 02/08/2023 18:42 | Calibration ID: 76877

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-601664/19	02080019.D
Level 2	IC 280-601664/18	02080018.D
Level 3	IC 280-601664/17	02080017.D
Level 4	IC 280-601664/16	02080016.D
Level 5	IC 280-601664/15	02080015.D
Level 6	IC 280-601664/14	02080014.D
Level 7	IC 280-601664/13	02080013.D
Level 8	IC 280-601664/12	02080012.D
Level 9	IC 280-601664/11	02080011.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	96200 93960 91737	98050 92130	92960 91317	93870 91529	Ave		93528.1492				2.5		20.0			
RDX	120300 102168 106491	109800 103248	104720 102589	101120 106983	Ave		106379.808				5.5		20.0			
Picric acid	67300 77436 78734	74600 77483	75360 77481	76400 77676	Ave		75829.9476				4.5		20.0			
1,3,5-Trinitrobenzene	219600 217528 217838	215650 218445	213580 218654	213990 219038	Ave		217147.032				1.0		20.0			
1,3-Dinitrobenzene	290200 296196 297242	292450 296278	293280 294821	292490 296615	Ave		294396.925				0.8		20.0			
Nitrobenzene	190500 190360 192956	190800 192660	192100 189984	190190 191651	Ave		191244.543				0.6		20.0			
3,5-Dinitroaniline	214700 228212 230510	218850 227498	228520 228160	227230 229927	Lin2	-154.28261	229201.890							1.0000		0.9900
Tetryl	161100 165680 166480	153650 171658	163060 165663	164380 165416	Ave		164120.706				3.0		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.: 280-176591-1 Analy Batch No.: 601664

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2023 15:38 Calibration End Date: 02/08/2023 18:42 Calibration ID: 76877

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								
Nitroglycerin	61590 64985 65842	59395 66398	63298 66047	63170 65903	Ave		64069.9243				3.7		20.0			
2,4,6-Trinitrotoluene	216700 210476 209648	213100 208335	214160 208960	207870 210110	Ave		211039.889				1.4		20.0			
4-Amino-2,6-dinitrotoluene	167000 152884 152878	155300 152868	157500 150916	154070 150980	Ave		154932.802				3.2		20.0			
2-Amino-4,6-dinitrotoluene	221400 198056 200205	201050 198963	201440 196574	197650 197356	Ave		201410.398				3.8		20.0			
2,6-Dinitrotoluene	148600 143452 140114	145550 140035	142180 142239	139670 142869	Ave		142745.397				2.0		20.0			
2,4-Dinitrotoluene	314100 293052 294340	299250 294023	297440 290757	295390 291656	Ave		296667.471				2.4		20.0			
2-Nitrotoluene	137700 124752 126235	130550 125108	132460 124116	125480 124668	Ave		127896.490				3.7		20.0			
4-Nitrotoluene	126300 108612 108849	119650 108228	111680 107359	108570 107671	Ave		111879.808				5.9		20.0			
3-Nitrotoluene	147300 137292 138526	153100 136790	141920 136640	136660 136203	Ave		140492.289				4.2		20.0			
PETN	72730 68498 68809	67310 68653	68114 68586	68161 68748	Ave		68845.4251				2.2		20.0			
1,2-Dinitrobenzene	118800 127432 129675	124550 128775	125560 126837	127270 127879	Ave		126308.705				2.5		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.: 280-176591-1 Analy Batch No.: 601664

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2023 15:38 Calibration End Date: 02/08/2023 18:42 Calibration ID: 76877

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-601664/19	02080019.D
Level 2	IC 280-601664/18	02080018.D
Level 3	IC 280-601664/17	02080017.D
Level 4	IC 280-601664/16	02080016.D
Level 5	IC 280-601664/15	02080015.D
Level 6	IC 280-601664/14	02080014.D
Level 7	IC 280-601664/13	02080013.D
Level 8	IC 280-601664/12	02080012.D
Level 9	IC 280-601664/11	02080011.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	962 36852	1961 63922	4648 91529	9387 229343	23490	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
RDX	Ave	1203 41299	2196 71812	5236 106983	10112 266228	25542	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
Picric acid	Ave	673 30993	1492 54237	3768 77676	7640 196834	19359	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
1,3,5-Trinitrobenzene	Ave	2196 87378	4313 153058	10679 219038	21399 544595	54382	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
1,3-Dinitrobenzene	Ave	2902 118511	5849 206375	14664 296615	29249 743106	74049	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
Nitrobenzene	Ave	1905 77064	3816 132989	9605 191651	19019 482389	47590	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
3,5-Dinitroaniline	Lin2	2147 90999	4377 159712	11426 229927	22723 576276	57053	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
Tetryl	Ave	1611 68663	3073 115964	8153 165416	16438 416200	41420	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
Nitroglycerin	Ave	6159 265593	11879 462332	31649 659032	63170 1646056	162463	0.100 4.00	0.200 7.00	0.500 10.0	1.00 25.0	2.50
2,4,6-Trinitrotoluene	Ave	2167 83334	4262 146272	10708 210110	20787 524120	52619	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
4-Amino-2,6-dinitrotoluene	Ave	1670 61147	3106 105641	7875 150980	15407 382195	38221	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
2-Amino-4,6-dinitrotoluene	Ave	2214 79585	4021 137602	10072 197356	19765 500512	49514	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
2,6-Dinitrotoluene	Ave	1486	2911	7109	13967	35863	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.: 280-176591-1 Analy Batch No.: 601664

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2023 15:38 Calibration End Date: 02/08/2023 18:42 Calibration ID: 76877

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
		56014	99567	142869	350285		0.400	0.700	1.00	2.50	
2,4-Dinitrotoluene	Ave	3141	5985	14872	29539	73263	0.0100	0.0200	0.0500	0.100	0.250
		117609	203530	291656	735849		0.400	0.700	1.00	2.50	
2-Nitrotoluene	Ave	1377	2611	6623	12548	31188	0.0100	0.0200	0.0500	0.100	0.250
		50043	86881	124668	315588		0.400	0.700	1.00	2.50	
4-Nitrotoluene	Ave	1263	2393	5584	10857	27153	0.0100	0.0200	0.0500	0.100	0.250
		43291	75151	107671	272123		0.400	0.700	1.00	2.50	
3-Nitrotoluene	Ave	1473	3062	7096	13666	34323	0.0100	0.0200	0.0500	0.100	0.250
		54716	95648	136203	346314		0.400	0.700	1.00	2.50	
PETN	Ave	7273	13462	34057	68161	171245	0.100	0.200	0.500	1.00	2.50
		274612	480104	687477	1720221		4.00	7.00	10.0	25.0	
1,2-Dinitrobenzene	Ave	1188	2491	6278	12727	31858	0.0100	0.0200	0.0500	0.100	0.250
		51510	88786	127879	324188		0.400	0.700	1.00	2.50	

Curve Type Legend
Ave = Average
Lin2 = Linear 1/conc^2

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\02080011.D
Lims ID: IC INT 9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 08-Feb-2023 15:38:53 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 9
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub26

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 09-Feb-2023 12:48:02 Calib Date: 08-Feb-2023 18:42:13
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\02080019.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1604

First Level Reviewer: LV5D Date: 08-Feb-2023 16:28:55

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
4 HMX	1	6.546	6.544	0.002	229343	2.50	2.45	M
8 RDX	1	7.559	7.564	-0.005	266228	2.50	2.50	
9 2,4,6-Trinitrophenol	1	7.966	8.044	-0.078	196834	2.50	2.60	
$ 10 1,2-Dinitrobenzene	1	8.506	8.517	-0.011	324188	2.50	2.57	
11 1,3,5-Trinitrobenzene	1	8.639	8.644	-0.005	544595	2.50	2.51	
12 1,3-Dinitrobenzene	1	9.246	9.257	-0.011	743106	2.50	2.52	
13 Nitrobenzene	1	9.619	9.631	-0.012	482389	2.50	2.52	
14 3,5-Dinitroaniline	1	9.819	9.831	-0.012	576276	2.50	2.51	
15 Tetryl	1	9.966	9.977	-0.011	416200	2.50	2.54	
16 Nitroglycerin	2	10.426	10.437	-0.011	1646056	25.0	25.7	
17 2,4,6-Trinitrotoluene	1	10.859	10.864	-0.005	524120	2.50	2.48	
18 4-Amino-2,6-dinitrotoluene	1	11.013	11.031	-0.018	382195	2.50	2.47	
19 2-Amino-4,6-dinitrotoluene	1	11.259	11.277	-0.018	500512	2.50	2.49	
20 2,6-Dinitrotoluene	1	11.439	11.451	-0.012	350285	2.50	2.45	
21 2,4-Dinitrotoluene	1	11.606	11.617	-0.011	735849	2.50	2.48	
22 o-Nitrotoluene	1	12.426	12.437	-0.011	315588	2.50	2.47	
23 p-Nitrotoluene	1	12.833	12.844	-0.011	272123	2.50	2.43	
24 m-Nitrotoluene	1	13.399	13.411	-0.012	346314	2.50	2.47	
25 PETN	2	14.539	14.551	-0.012	1720221	25.0	25.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00075 Amount Added: 250.00 Units: uL

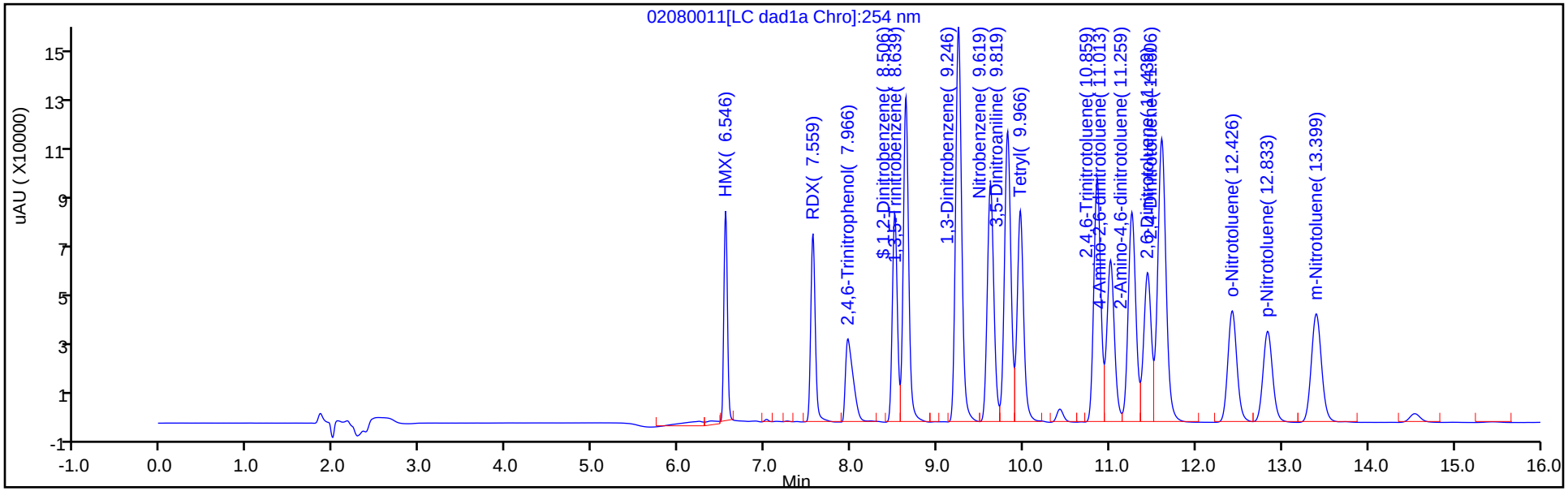
Report Date: 09-Feb-2023 12:48:02 Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Denver

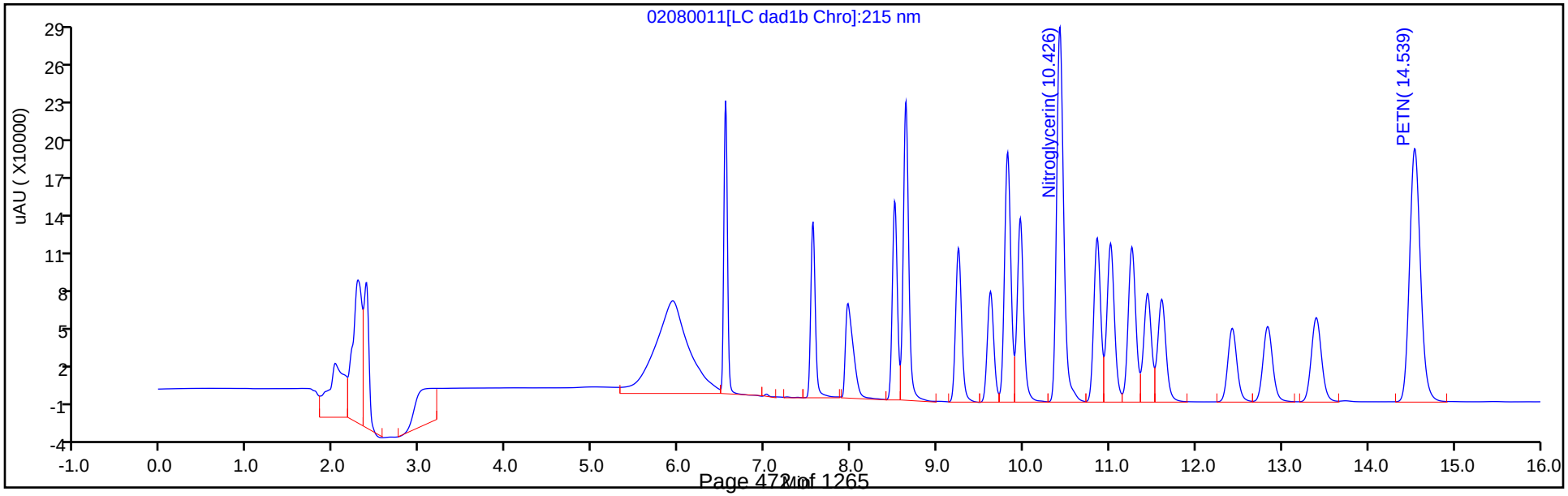
Data File: \\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080011.d

Injection Date:	08-Feb-2023 15:38:53	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC INT 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



Manual Integration/User Assign Peak Report

Eurofins Denver

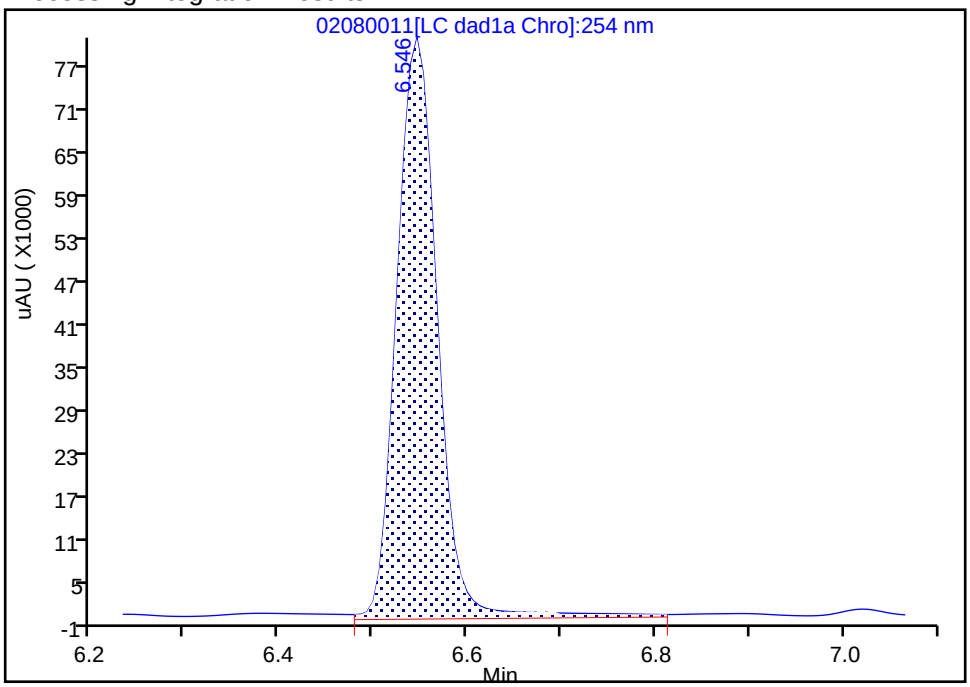
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080011.d				
Injection Date:	08-Feb-2023 15:38:53	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 9				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

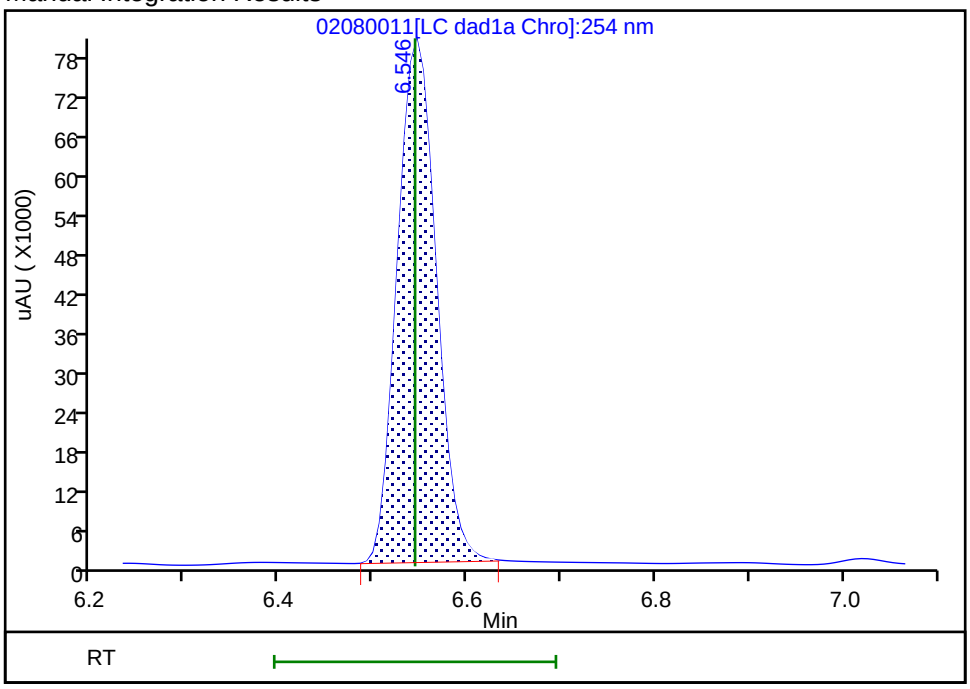
Processing Integration Results

RT: 6.55
Area: 245170
Amount: 2.586222
Amount Units: ug/mL



Manual Integration Results

RT: 6.55
Area: 229343
Amount: 2.452128
Amount Units: ug/mL



Reviewer: LV5D, 08-Feb-2023 16:28:37
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\02080012.D
Lims ID: IC INT 8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 08-Feb-2023 16:01:51 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 8
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub26

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 09-Feb-2023 12:48:03 Calib Date: 08-Feb-2023 18:42:13
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\02080019.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1604

First Level Reviewer: LV5D Date: 08-Feb-2023 16:28:33

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
4 HMX	1	6.547	6.544	0.003	91529	1.00	0.9786	M
8 RDX	1	7.567	7.564	0.003	106983	1.00	1.01	
9 2,4,6-Trinitrophenol	1	8.014	8.044	-0.030	77676	1.00	1.02	
$ 10 1,2-Dinitrobenzene	1	8.521	8.517	0.004	127879	1.00	1.01	
11 1,3,5-Trinitrobenzene	1	8.647	8.644	0.003	219038	1.00	1.01	
12 1,3-Dinitrobenzene	1	9.260	9.257	0.003	296615	1.00	1.01	
13 Nitrobenzene	1	9.634	9.631	0.003	191651	1.00	1.00	
14 3,5-Dinitroaniline	1	9.840	9.831	0.009	229927	1.00	1.00	
15 Tetryl	1	9.987	9.977	0.010	165416	1.00	1.01	
16 Nitroglycerin	2	10.454	10.437	0.017	659032	10.0	10.3	
17 2,4,6-Trinitrotoluene	1	10.880	10.864	0.016	210110	1.00	1.00	
18 4-Amino-2,6-dinitrotoluene	1	11.040	11.031	0.009	150980	1.00	0.9745	
19 2-Amino-4,6-dinitrotoluene	1	11.287	11.277	0.010	197356	1.00	0.9799	
20 2,6-Dinitrotoluene	1	11.467	11.451	0.016	142869	1.00	1.00	
21 2,4-Dinitrotoluene	1	11.634	11.617	0.017	291656	1.00	0.9831	
22 o-Nitrotoluene	1	12.447	12.437	0.010	124668	1.00	0.9748	
23 p-Nitrotoluene	1	12.860	12.844	0.016	107671	1.00	0.9624	
24 m-Nitrotoluene	1	13.420	13.411	0.009	136203	1.00	0.9695	
25 PETN	2	14.567	14.551	0.016	687477	10.0	9.99	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00075 Amount Added: 100.00 Units: uL

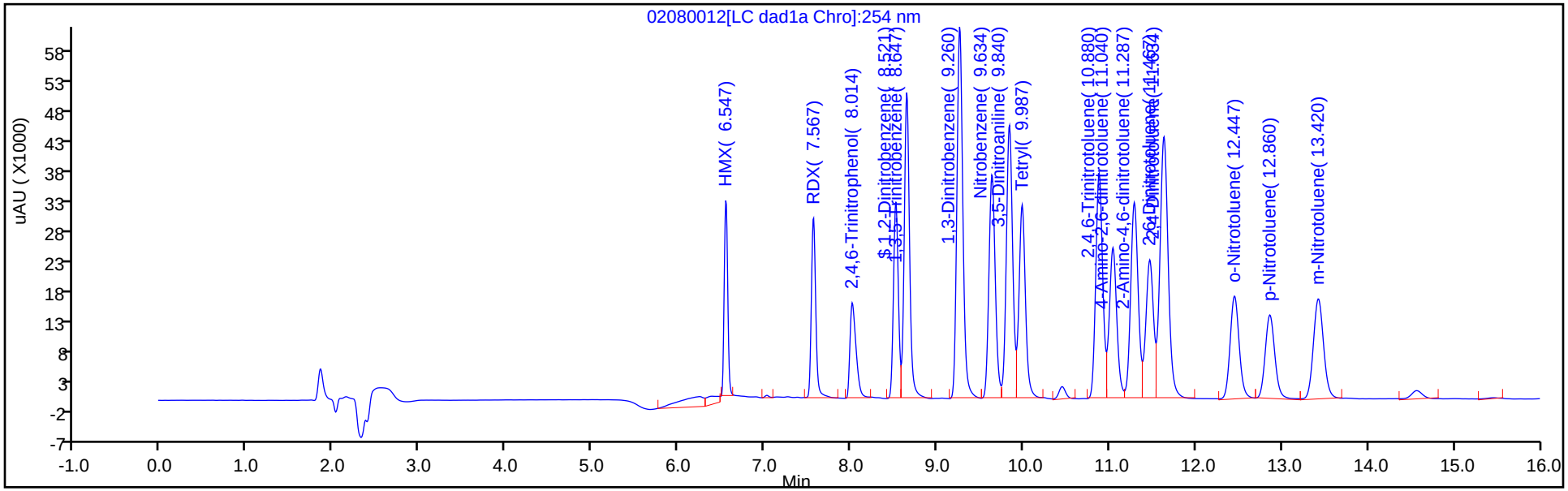
Report Date: 09-Feb-2023 12:48:03 Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Denver

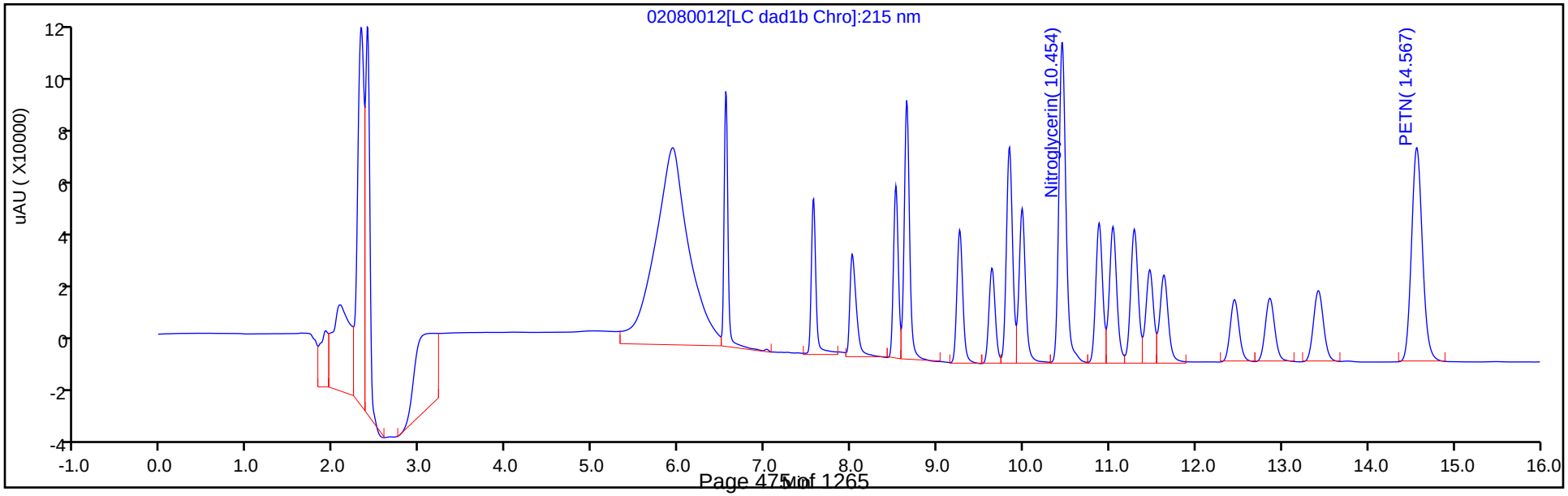
Data File: \\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080012.d

Injection Date:	08-Feb-2023 16:01:51	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC INT 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



Manual Integration/User Assign Peak Report

Eurofins Denver

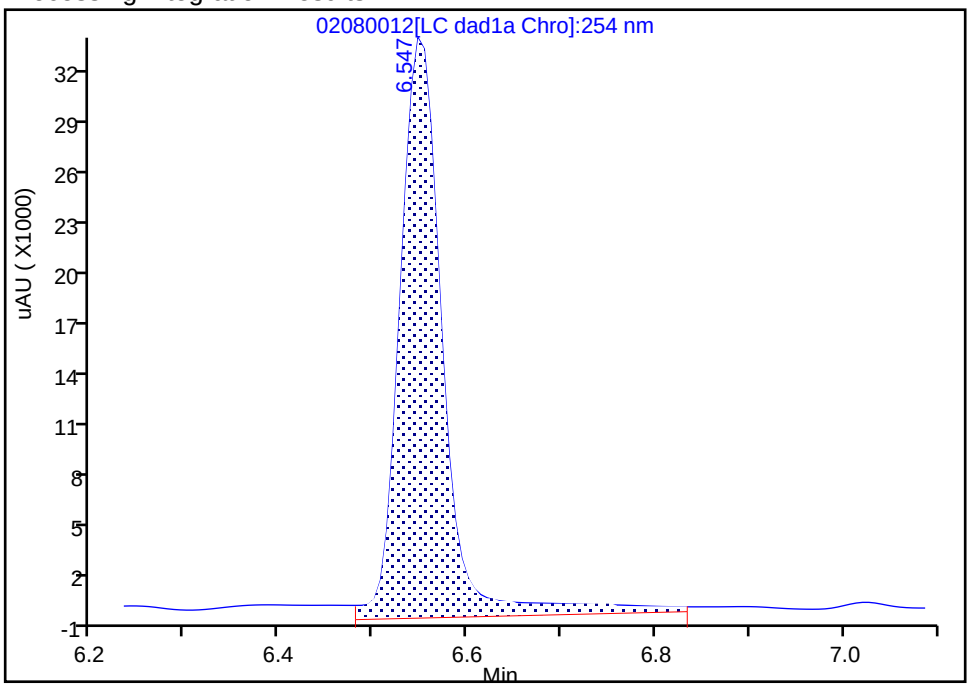
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080012.d				
Injection Date:	08-Feb-2023 16:01:51	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 8				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

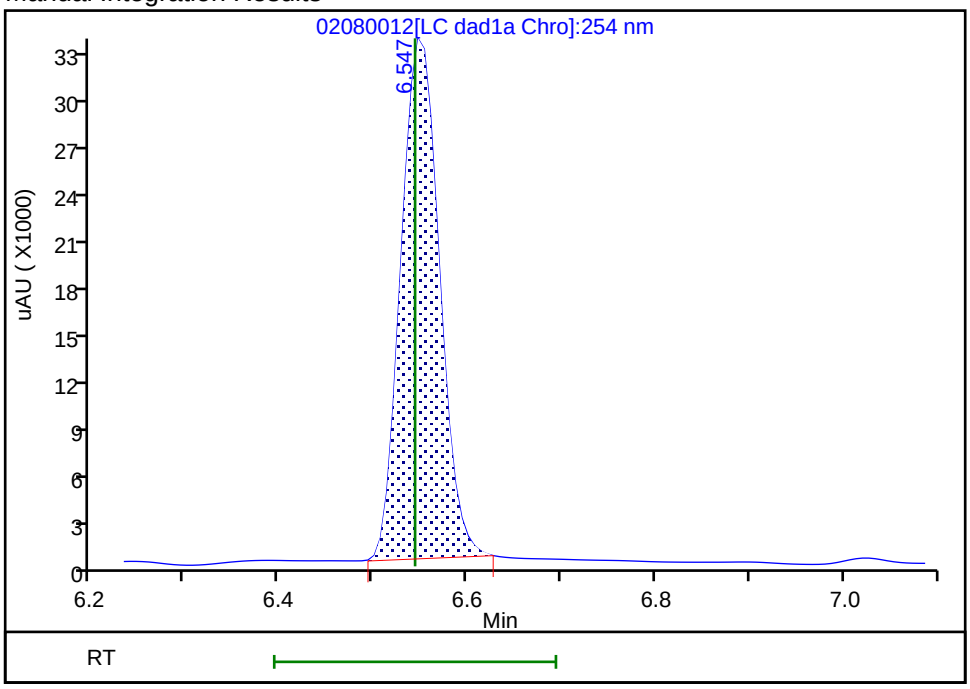
Processing Integration Results

RT: 6.55
Area: 107005
Amount: 1.043580
Amount Units: ug/mL



Manual Integration Results

RT: 6.55
Area: 91529
Amount: 0.978625
Amount Units: ug/mL



Reviewer: LV5D, 08-Feb-2023 16:28:16
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Report Date: 09-Feb-2023 12:48:04 Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\02080013.D
Lims ID: IC INT 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-Feb-2023 16:24:45 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 7
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub26

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 09-Feb-2023 12:48:04 Calib Date: 08-Feb-2023 18:42:13
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\02080019.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1604

First Level Reviewer: LV5D Date: 08-Feb-2023 16:55:38

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
4 HMX	1	6.544	6.544	0.000	63922	0.7000	0.6835	M
8 RDX	1	7.564	7.564	0.000	71812	0.7000	0.6751	M
9 2,4,6-Trinitrophenol	1	8.018	8.044	-0.026	54237	0.7000	0.7152	
$ 10 1,2-Dinitrobenzene	1	8.511	8.517	-0.006	88786	0.7000	0.7029	
11 1,3,5-Trinitrobenzene	1	8.638	8.644	-0.006	153058	0.7000	0.7049	
12 1,3-Dinitrobenzene	1	9.251	9.257	-0.006	206375	0.7000	0.7010	
13 Nitrobenzene	1	9.624	9.631	-0.007	132989	0.7000	0.6954	
14 3,5-Dinitroaniline	1	9.824	9.831	-0.007	159712	0.7000	0.6975	
15 Tetryl	1	9.971	9.977	-0.006	115964	0.7000	0.7066	
16 Nitroglycerin	2	10.437	10.437	0.000	462332	7.00	7.22	
17 2,4,6-Trinitrotoluene	1	10.864	10.864	0.000	146272	0.7000	0.6931	
18 4-Amino-2,6-dinitrotoluene	1	11.024	11.031	-0.007	105641	0.7000	0.6819	
19 2-Amino-4,6-dinitrotoluene	1	11.271	11.277	-0.006	137602	0.7000	0.6832	
20 2,6-Dinitrotoluene	1	11.451	11.451	0.000	99567	0.7000	0.6975	
21 2,4-Dinitrotoluene	1	11.617	11.617	0.000	203530	0.7000	0.6861	
22 o-Nitrotoluene	1	12.431	12.437	-0.006	86881	0.7000	0.6793	
23 p-Nitrotoluene	1	12.844	12.844	0.000	75151	0.7000	0.6717	
24 m-Nitrotoluene	1	13.404	13.411	-0.007	95648	0.7000	0.6808	
25 PETN	2	14.544	14.551	-0.007	480104	7.00	6.97	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00075 Amount Added: 70.00 Units: uL

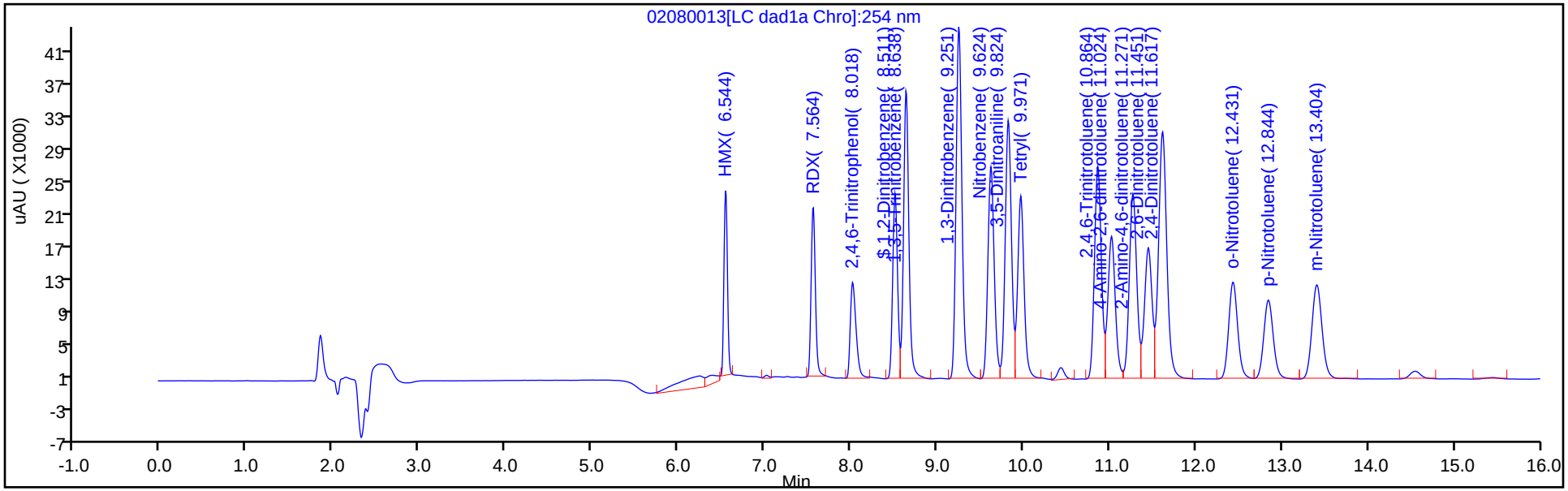
Report Date: 09-Feb-2023 12:48:04 Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Denver

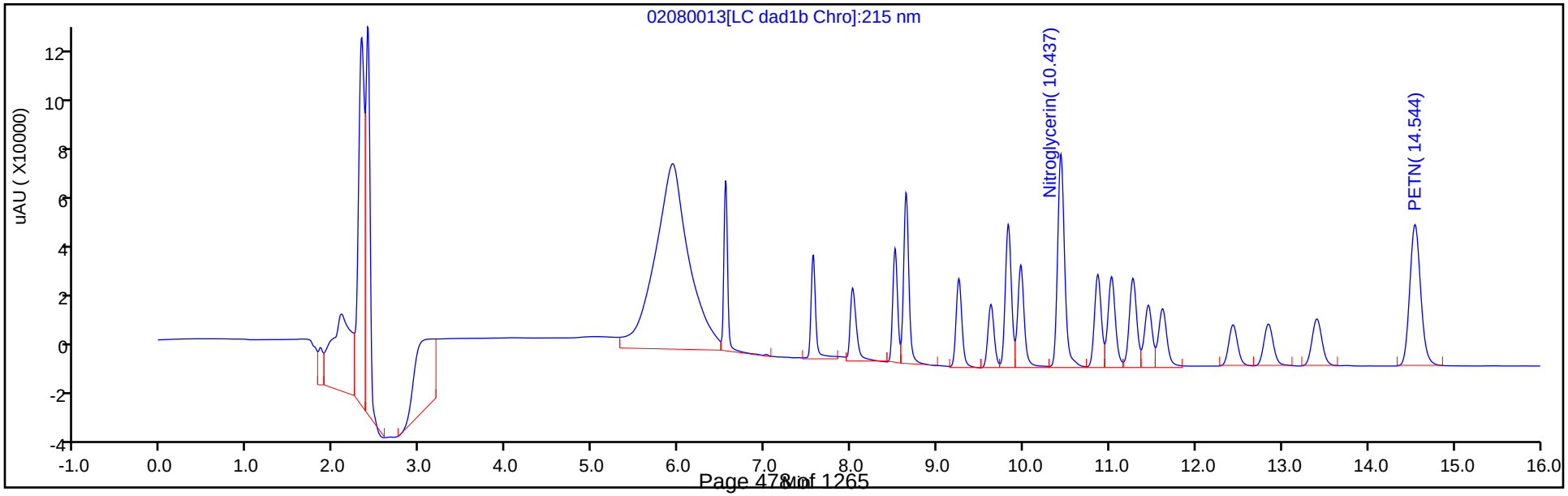
Data File: \\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080013.d

Injection Date:	08-Feb-2023 16:24:45	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC INT 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



Manual Integration/User Assign Peak Report

Eurofins Denver

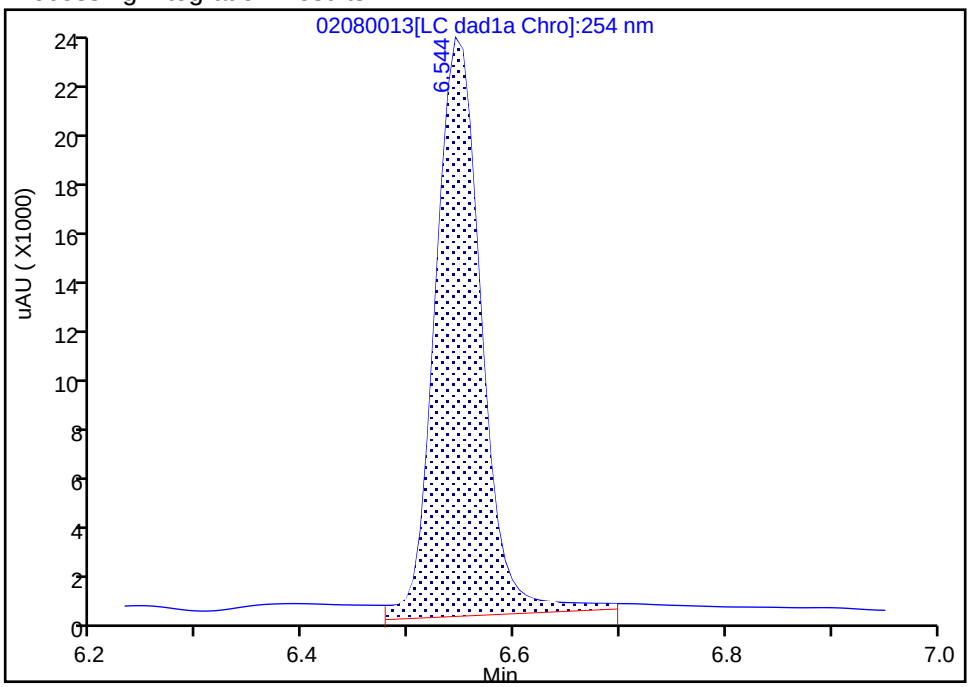
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080013.d				
Injection Date:	08-Feb-2023 16:24:45	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 7				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

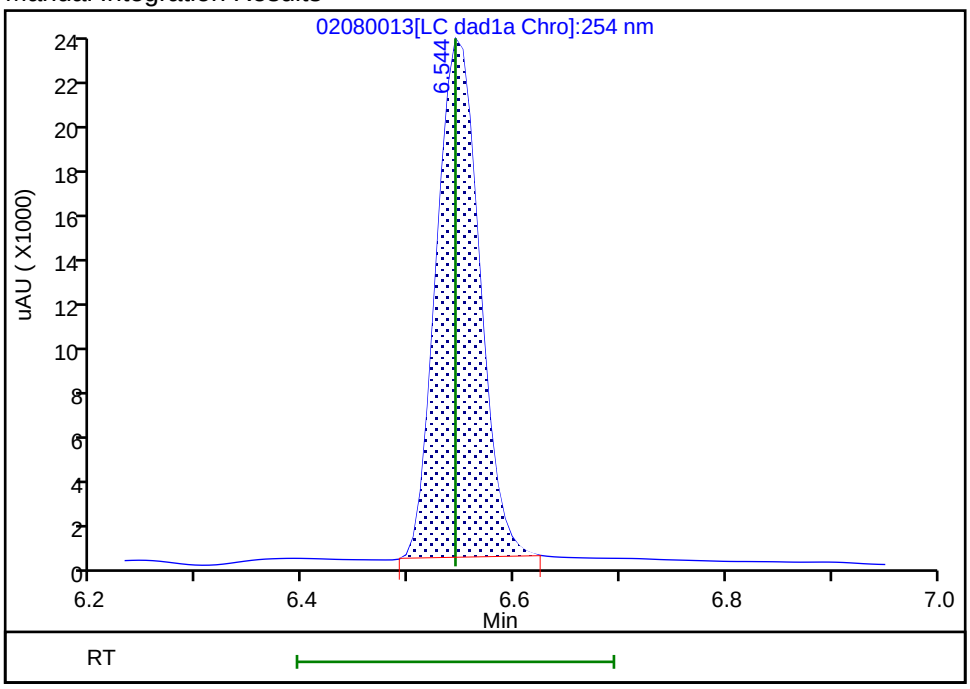
Processing Integration Results

RT: 6.54
Area: 70424
Amount: 0.744251
Amount Units: ug/mL



Manual Integration Results

RT: 6.54
Area: 63922
Amount: 0.683452
Amount Units: ug/mL



Reviewer: LV5D, 08-Feb-2023 16:55:19

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

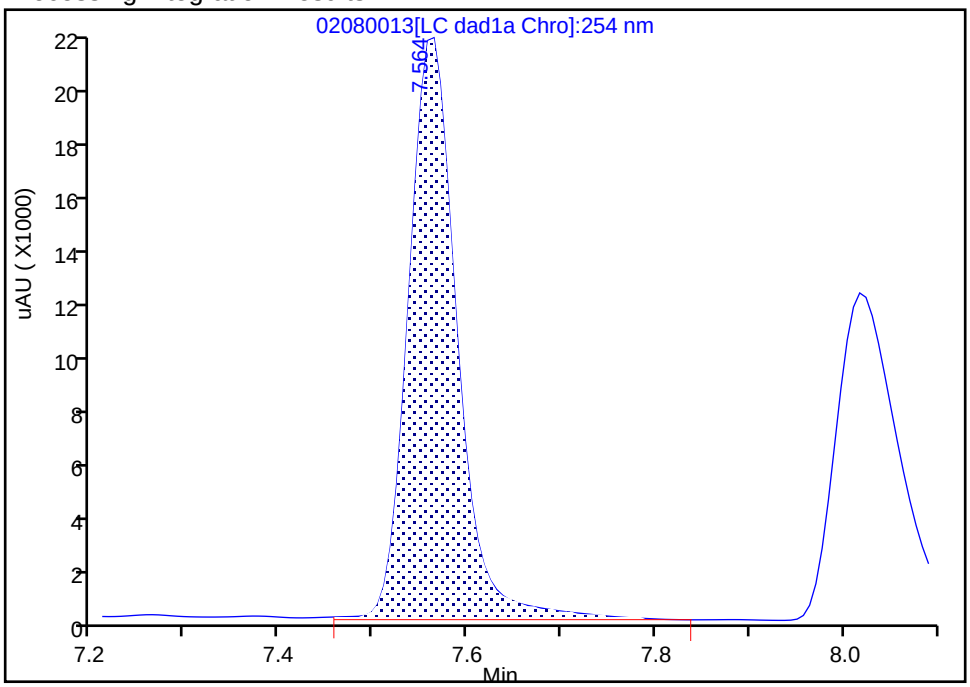
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080013.d				
Injection Date:	08-Feb-2023 16:24:45	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 7				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

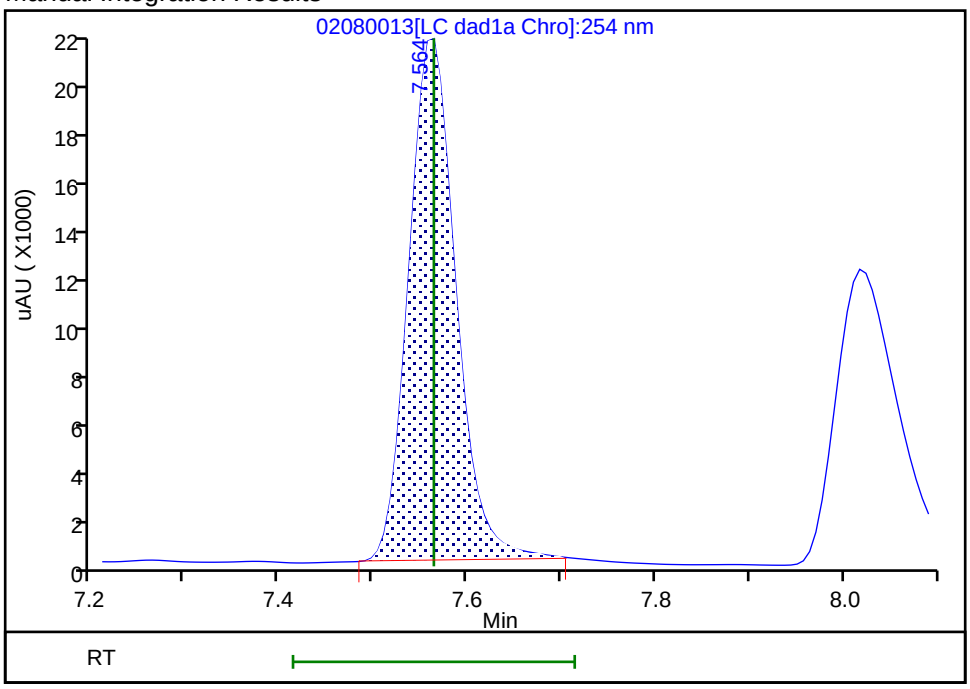
Processing Integration Results

RT: 7.56
Area: 75013
Amount: 0.701791
Amount Units: ug/mL



Manual Integration Results

RT: 7.56
Area: 71812
Amount: 0.675053
Amount Units: ug/mL



Reviewer: LV5D, 08-Feb-2023 19:09:56
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\02080014.D
Lims ID: IC INT 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-Feb-2023 16:47:39 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 6
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub26

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 09-Feb-2023 12:48:05 Calib Date: 08-Feb-2023 18:42:13
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\02080019.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1604

First Level Reviewer: LV5D Date: 08-Feb-2023 17:11:22

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
4 HMX	1	6.548	6.544	0.004	36852	0.4000	0.3940	M
8 RDX	1	7.562	7.564	-0.002	41299	0.4000	0.3882	M
9 2,4,6-Trinitrophenol	1	8.028	8.044	-0.016	30993	0.4000	0.4087	
$ 10 1,2-Dinitrobenzene	1	8.515	8.517	-0.002	51510	0.4000	0.4078	
11 1,3,5-Trinitrobenzene	1	8.642	8.644	-0.002	87378	0.4000	0.4024	
12 1,3-Dinitrobenzene	1	9.255	9.257	-0.002	118511	0.4000	0.4026	
13 Nitrobenzene	1	9.628	9.631	-0.003	77064	0.4000	0.4030	
14 3,5-Dinitroaniline	1	9.828	9.831	-0.003	90999	0.4000	0.3977	
15 Tetryl	1	9.968	9.977	-0.009	68663	0.4000	0.4184	
16 Nitroglycerin	2	10.435	10.437	-0.002	265593	4.00	4.15	
17 2,4,6-Trinitrotoluene	1	10.868	10.864	0.004	83334	0.4000	0.3949	
18 4-Amino-2,6-dinitrotoluene	1	11.022	11.031	-0.009	61147	0.4000	0.3947	
19 2-Amino-4,6-dinitrotoluene	1	11.275	11.277	-0.002	79585	0.4000	0.3951	
20 2,6-Dinitrotoluene	1	11.448	11.451	-0.003	56014	0.4000	0.3924	
21 2,4-Dinitrotoluene	1	11.615	11.617	-0.002	117609	0.4000	0.3964	
22 o-Nitrotoluene	1	12.435	12.437	-0.002	50043	0.4000	0.3913	
23 p-Nitrotoluene	1	12.842	12.844	-0.002	43291	0.4000	0.3869	
24 m-Nitrotoluene	1	13.408	13.411	-0.003	54716	0.4000	0.3895	
25 PETN	2	14.548	14.551	-0.003	274612	4.00	3.99	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00075 Amount Added: 40.00 Units: uL

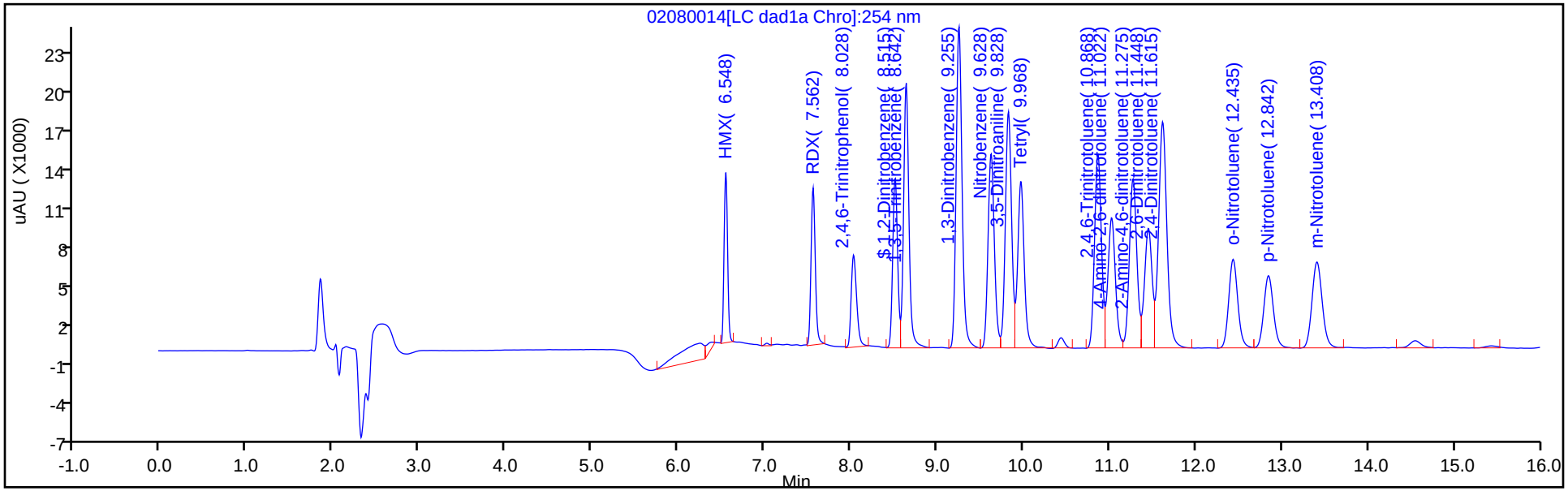
Report Date: 09-Feb-2023 12:48:05 Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Denver

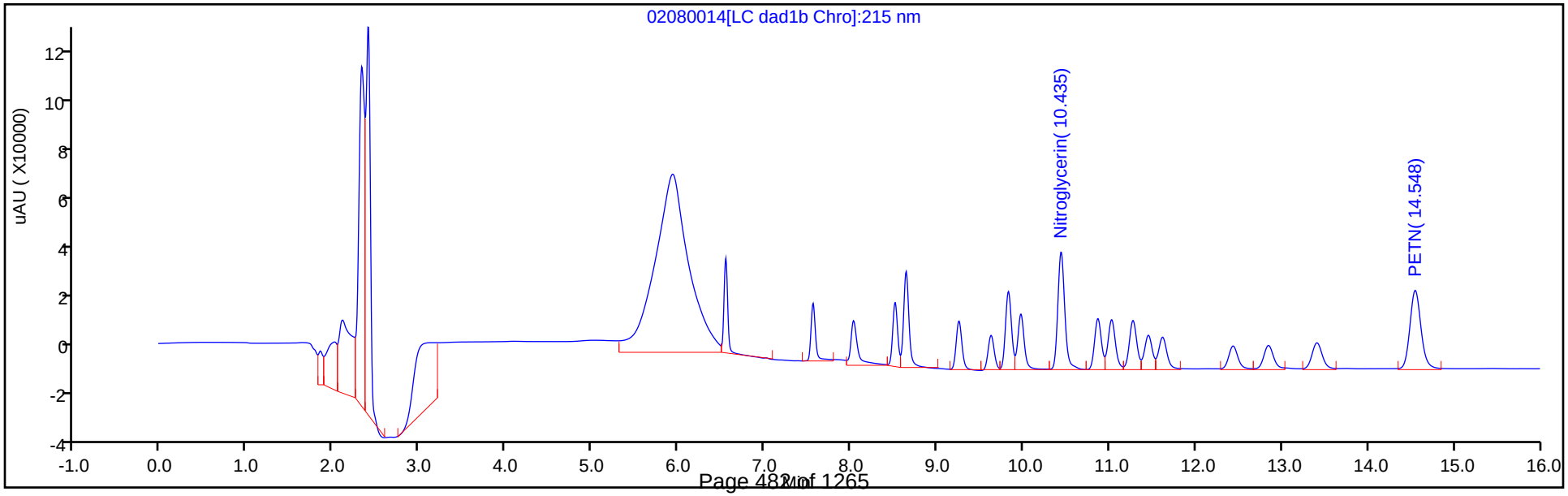
Data File: \\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080014.d

Injection Date:	08-Feb-2023 16:47:39	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC INT 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



Manual Integration/User Assign Peak Report

Eurofins Denver

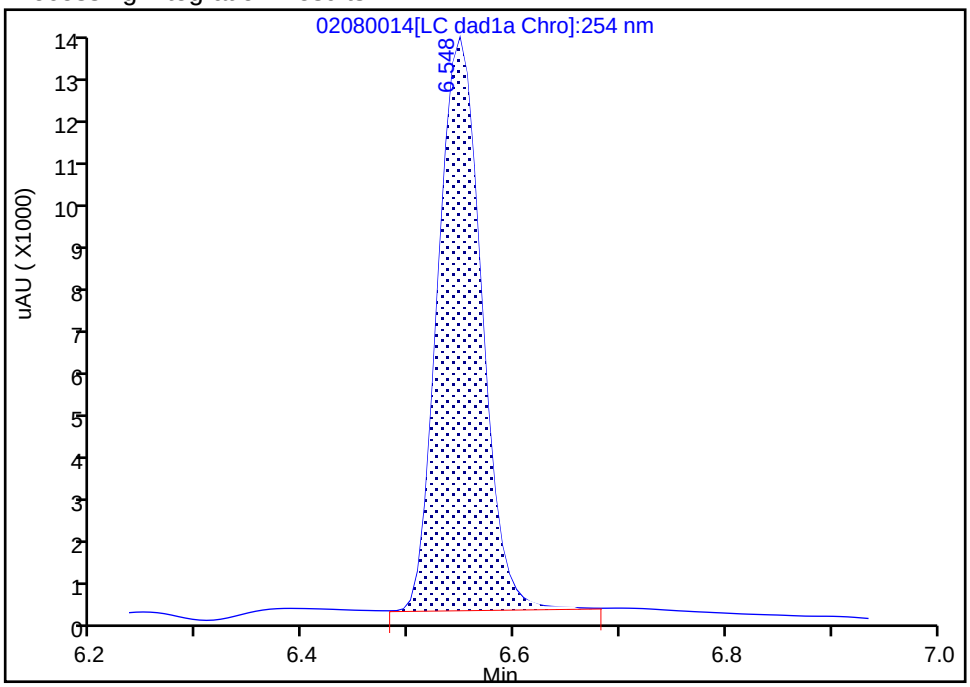
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080014.d				
Injection Date:	08-Feb-2023 16:47:39	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 6				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

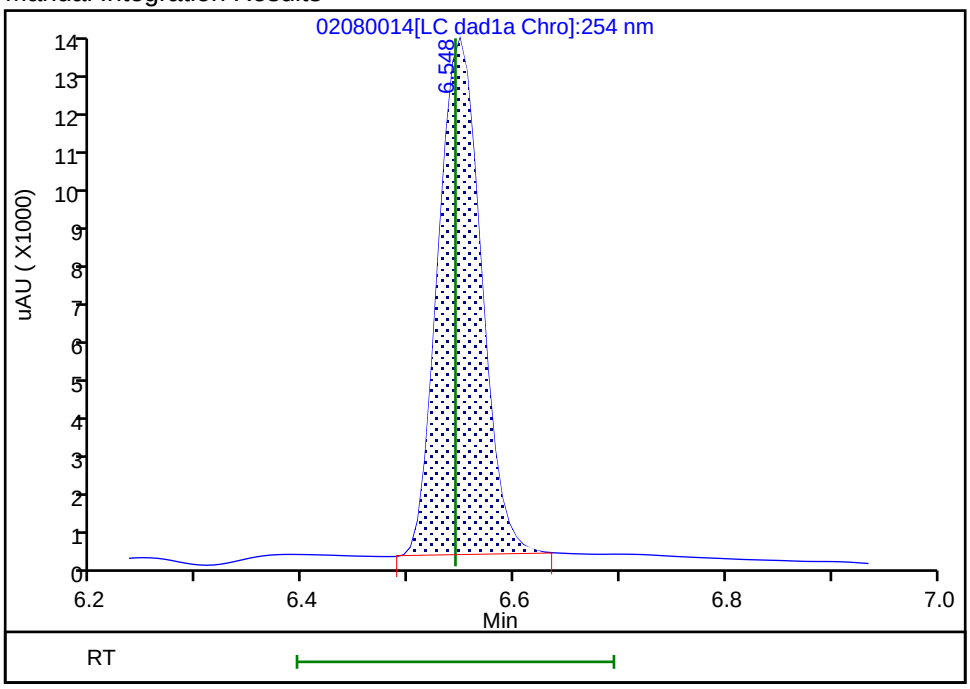
Processing Integration Results

RT: 6.55
Area: 37332
Amount: 0.405878
Amount Units: ug/mL



Manual Integration Results

RT: 6.55
Area: 36852
Amount: 0.394020
Amount Units: ug/mL



Reviewer: LV5D, 08-Feb-2023 17:11:10
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

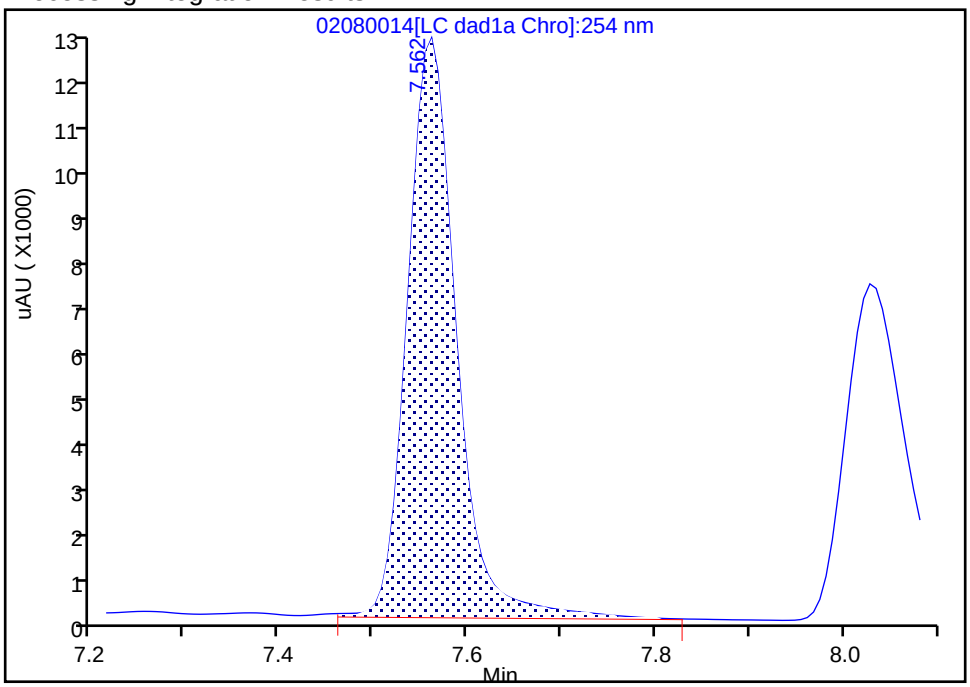
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080014.d				
Injection Date:	08-Feb-2023 16:47:39	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 6				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

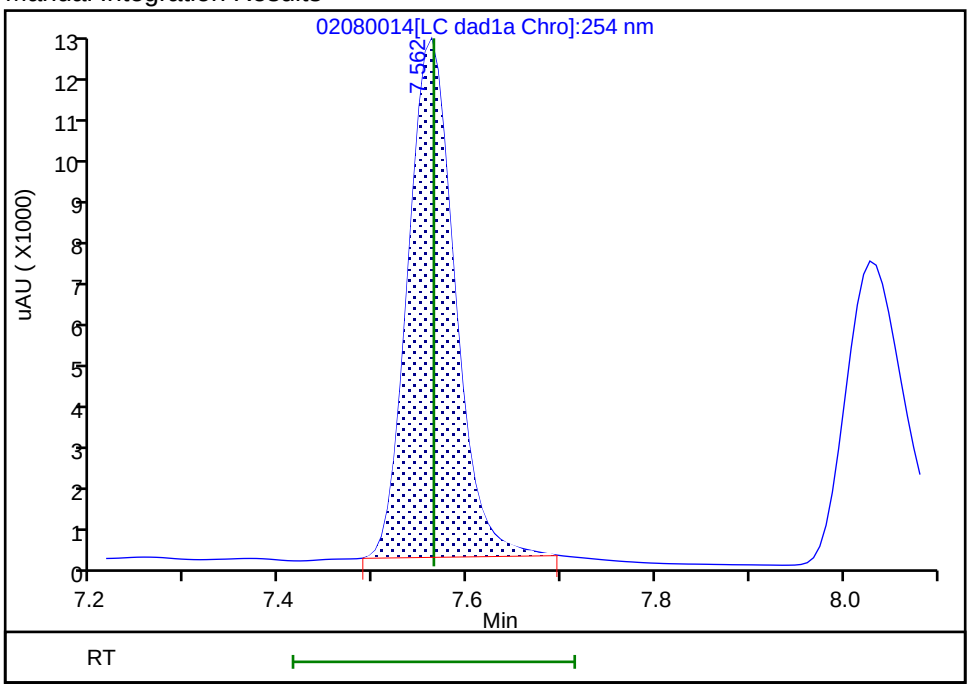
Processing Integration Results

RT: 7.56
Area: 43581
Amount: 0.405322
Amount Units: ug/mL



Manual Integration Results

RT: 7.56
Area: 41299
Amount: 0.388222
Amount Units: ug/mL



Reviewer: LV5D, 08-Feb-2023 19:09:51
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\02080015.D
Lims ID: IC INT 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Feb-2023 17:10:30 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 5
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub26

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 09-Feb-2023 12:48:05 Calib Date: 08-Feb-2023 18:42:13
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\02080019.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1604

First Level Reviewer: LV5D Date: 08-Feb-2023 17:44:54

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
4 HMX	1	6.548	6.544	0.004	23490	0.2500	0.2512	
8 RDX	1	7.568	7.564	0.004	25542	0.2500	0.2401	M
9 2,4,6-Trinitrophenol	1	8.041	8.044	-0.003	19359	0.2500	0.2553	
$ 10 1,2-Dinitrobenzene	1	8.515	8.517	-0.002	31858	0.2500	0.2522	
11 1,3,5-Trinitrobenzene	1	8.641	8.644	-0.003	54382	0.2500	0.2504	
12 1,3-Dinitrobenzene	1	9.255	9.257	-0.002	74049	0.2500	0.2515	
13 Nitrobenzene	1	9.628	9.631	-0.003	47590	0.2500	0.2488	
14 3,5-Dinitroaniline	1	9.828	9.831	-0.003	57053	0.2500	0.2496	
15 Tetryl	1	9.975	9.977	-0.002	41420	0.2500	0.2524	
16 Nitroglycerin	2	10.441	10.437	0.004	162463	2.50	2.54	
17 2,4,6-Trinitrotoluene	1	10.868	10.864	0.004	52619	0.2500	0.2493	
18 4-Amino-2,6-dinitrotoluene	1	11.028	11.031	-0.003	38221	0.2500	0.2467	
19 2-Amino-4,6-dinitrotoluene	1	11.275	11.277	-0.002	49514	0.2500	0.2458	
20 2,6-Dinitrotoluene	1	11.455	11.451	0.004	35863	0.2500	0.2512	
21 2,4-Dinitrotoluene	1	11.621	11.617	0.004	73263	0.2500	0.2470	
22 o-Nitrotoluene	1	12.441	12.437	0.004	31188	0.2500	0.2439	
23 p-Nitrotoluene	1	12.848	12.844	0.004	27153	0.2500	0.2427	
24 m-Nitrotoluene	1	13.415	13.411	0.004	34323	0.2500	0.2443	
25 PETN	2	14.555	14.551	0.004	171245	2.50	2.49	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00075 Amount Added: 25.00 Units: uL

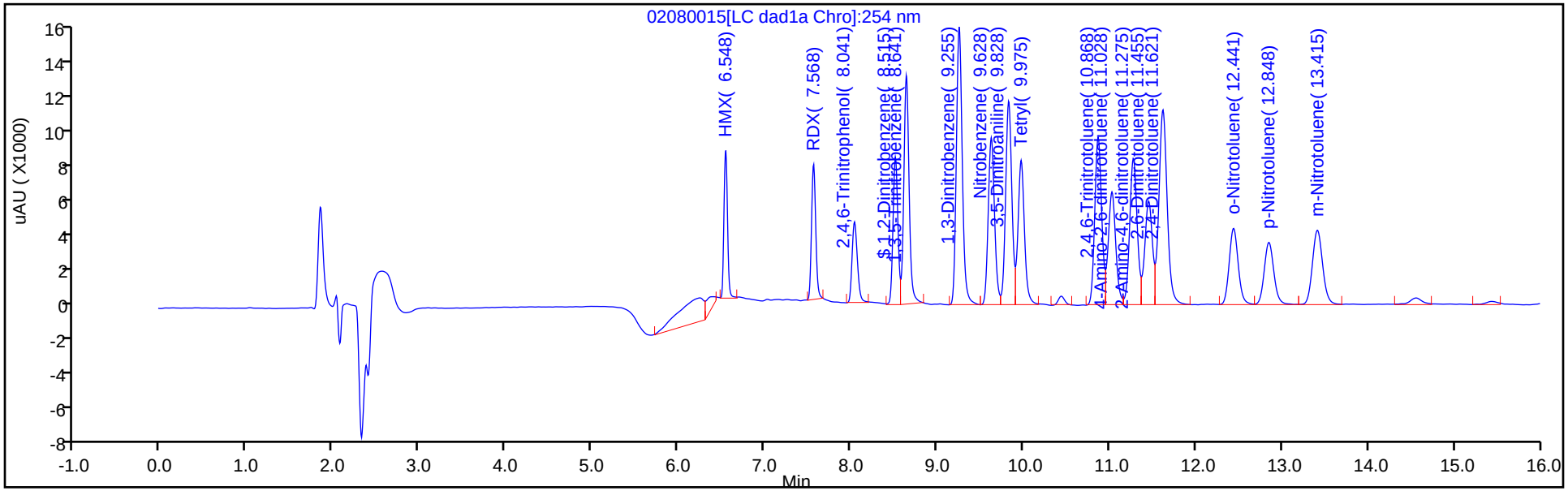
Report Date: 09-Feb-2023 12:48:06 Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Denver

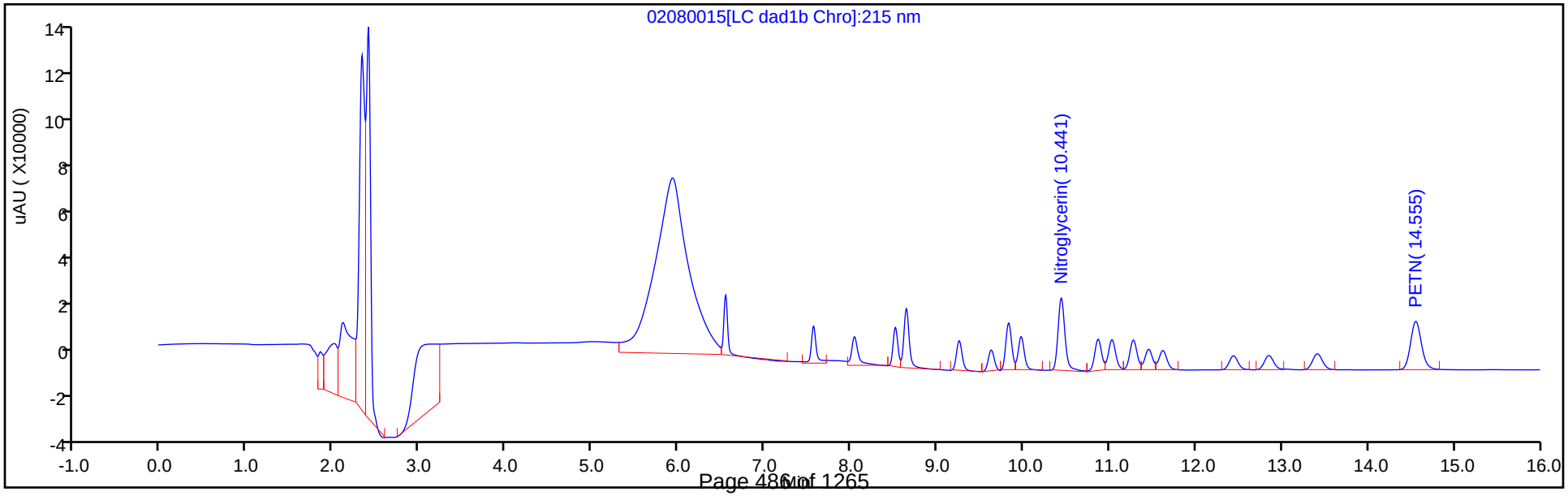
Data File: \\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080015.d

Injection Date:	08-Feb-2023 17:10:30	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC INT 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



Manual Integration/User Assign Peak Report

Eurofins Denver

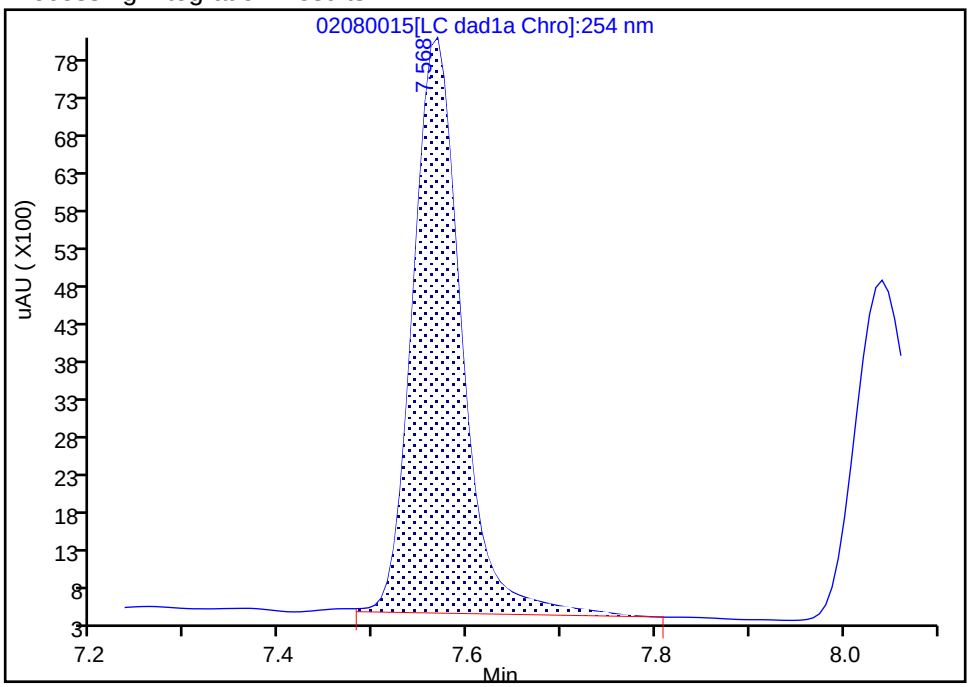
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080015.d				
Injection Date:	08-Feb-2023 17:10:30	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 5				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

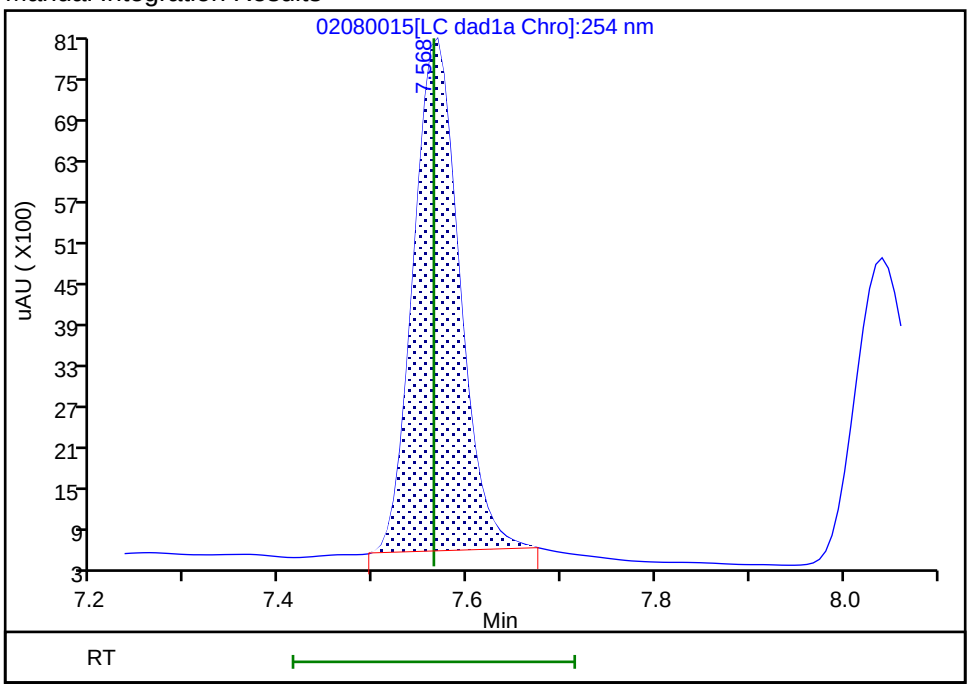
Processing Integration Results

RT: 7.57
Area: 27559
Amount: 0.254192
Amount Units: ug/mL



Manual Integration Results

RT: 7.57
Area: 25542
Amount: 0.240102
Amount Units: ug/mL



Reviewer: LV5D, 08-Feb-2023 19:09:46
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\02080016.D
Lims ID: IC INT 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-Feb-2023 17:33:25 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 4
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub26

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 09-Feb-2023 12:48:06 Calib Date: 08-Feb-2023 18:42:13
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\02080019.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1604

First Level Reviewer: LV5D Date: 08-Feb-2023 18:05:31

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
4 HMX	1	6.544	6.544	0.000	9387	0.1000	0.1004	
8 RDX	1	7.564	7.564	0.000	10112	0.1000	0.0951	M
9 2,4,6-Trinitrophenol	1	8.044	8.044	0.000	7640	0.1000	0.1008	
$ 10 1,2-Dinitrobenzene	1	8.517	8.517	0.000	12727	0.1000	0.1008	
11 1,3,5-Trinitrobenzene	1	8.644	8.644	0.000	21399	0.1000	0.0985	
12 1,3-Dinitrobenzene	1	9.257	9.257	0.000	29249	0.1000	0.0994	
13 Nitrobenzene	1	9.631	9.631	0.000	19019	0.1000	0.0994	
14 3,5-Dinitroaniline	1	9.831	9.831	0.000	22723	0.1000	0.0998	
15 Tetryl	1	9.977	9.977	0.000	16438	0.1000	0.1002	
16 Nitroglycerin	2	10.437	10.437	0.000	63170	1.00	0.9860	
17 2,4,6-Trinitrotoluene	1	10.864	10.864	0.000	20787	0.1000	0.0985	
18 4-Amino-2,6-dinitrotoluene	1	11.031	11.031	0.000	15407	0.1000	0.0994	
19 2-Amino-4,6-dinitrotoluene	1	11.277	11.277	0.000	19765	0.1000	0.0981	
20 2,6-Dinitrotoluene	1	11.451	11.451	0.000	13967	0.1000	0.0978	
21 2,4-Dinitrotoluene	1	11.617	11.617	0.000	29539	0.1000	0.0996	
22 o-Nitrotoluene	1	12.437	12.437	0.000	12548	0.1000	0.0981	
23 p-Nitrotoluene	1	12.844	12.844	0.000	10857	0.1000	0.0970	
24 m-Nitrotoluene	1	13.411	13.411	0.000	13666	0.1000	0.0973	
25 PETN	2	14.551	14.551	0.000	68161	1.00	0.99	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00075 Amount Added: 10.00 Units: uL

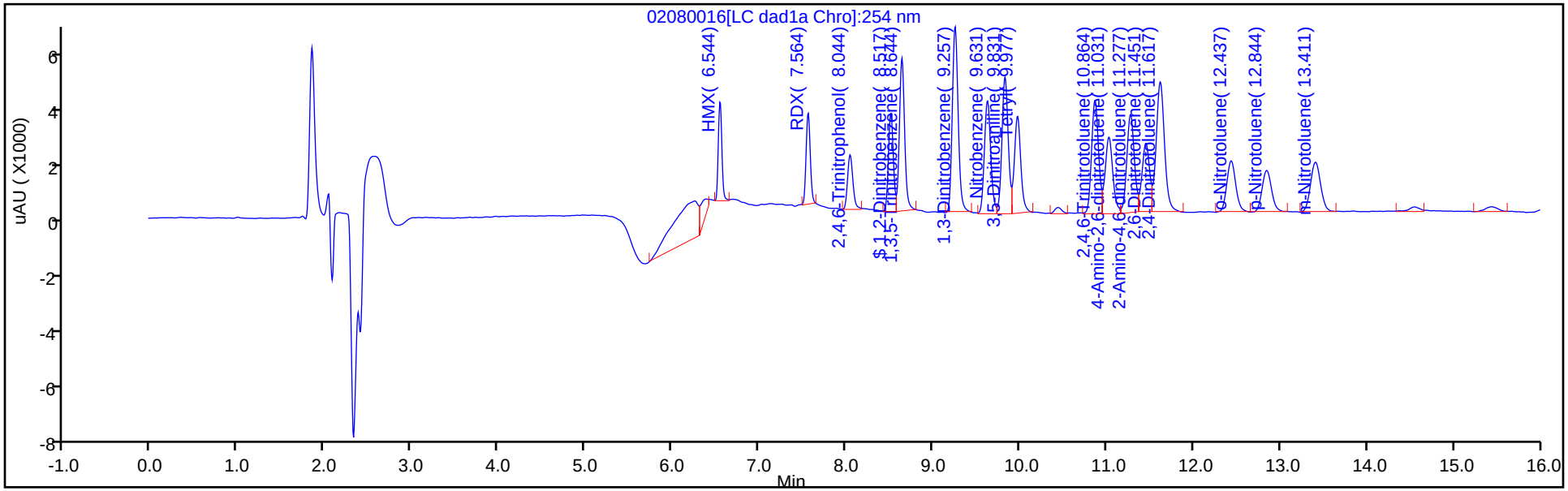
Report Date: 09-Feb-2023 12:48:06 Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Denver

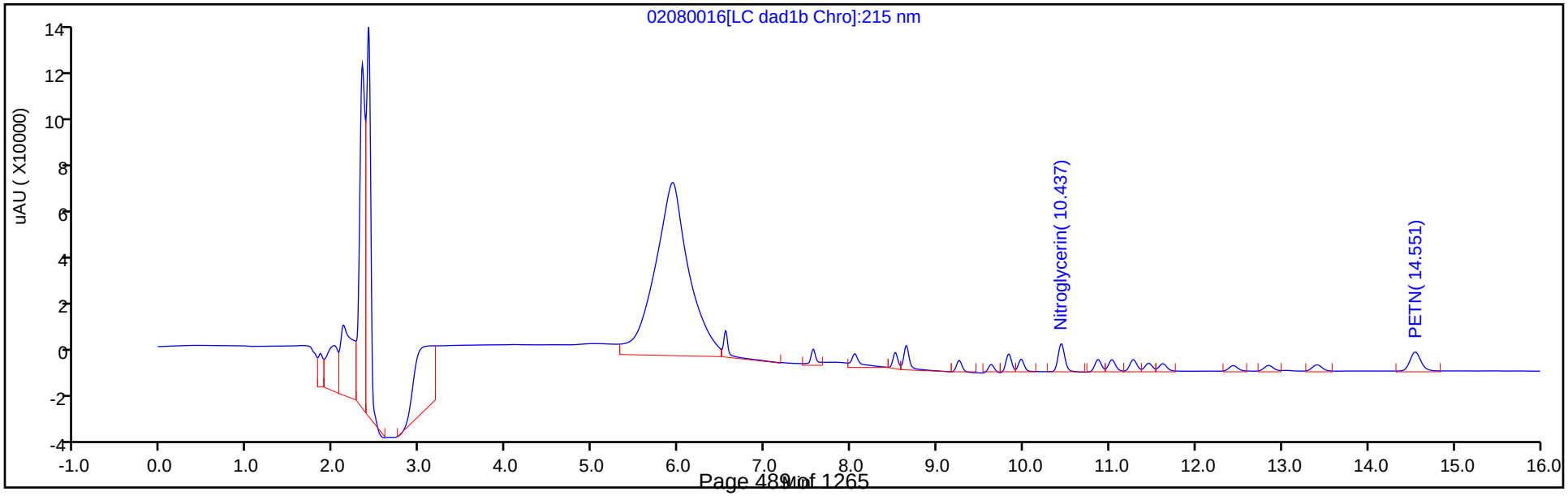
Data File: \\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080016.d

Injection Date:	08-Feb-2023 17:33:25	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC INT 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



Manual Integration/User Assign Peak Report

Eurofins Denver

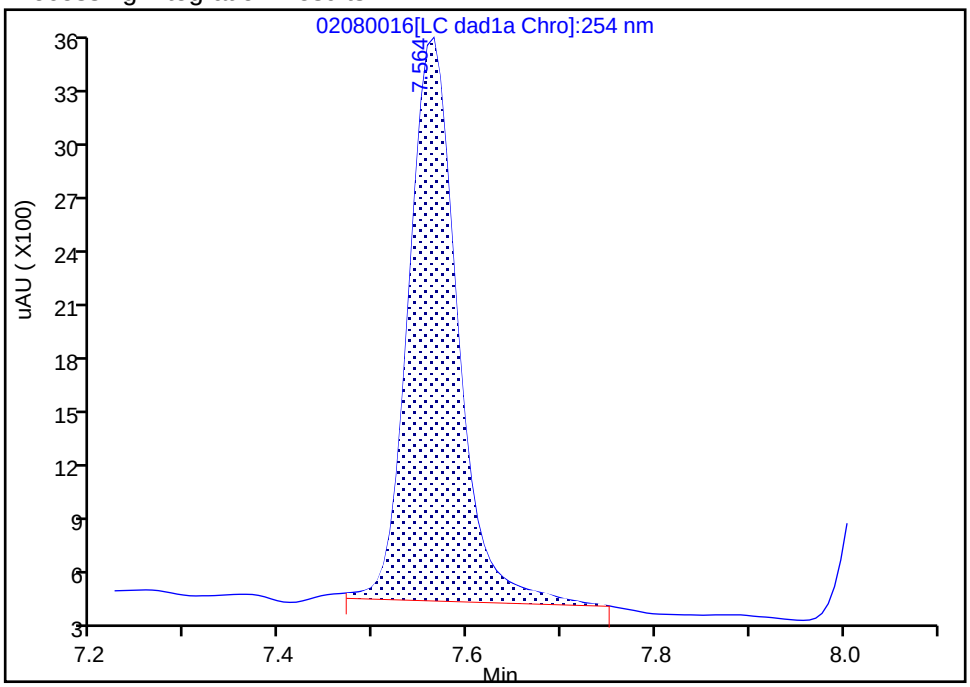
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080016.d				
Injection Date:	08-Feb-2023 17:33:25	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 4				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

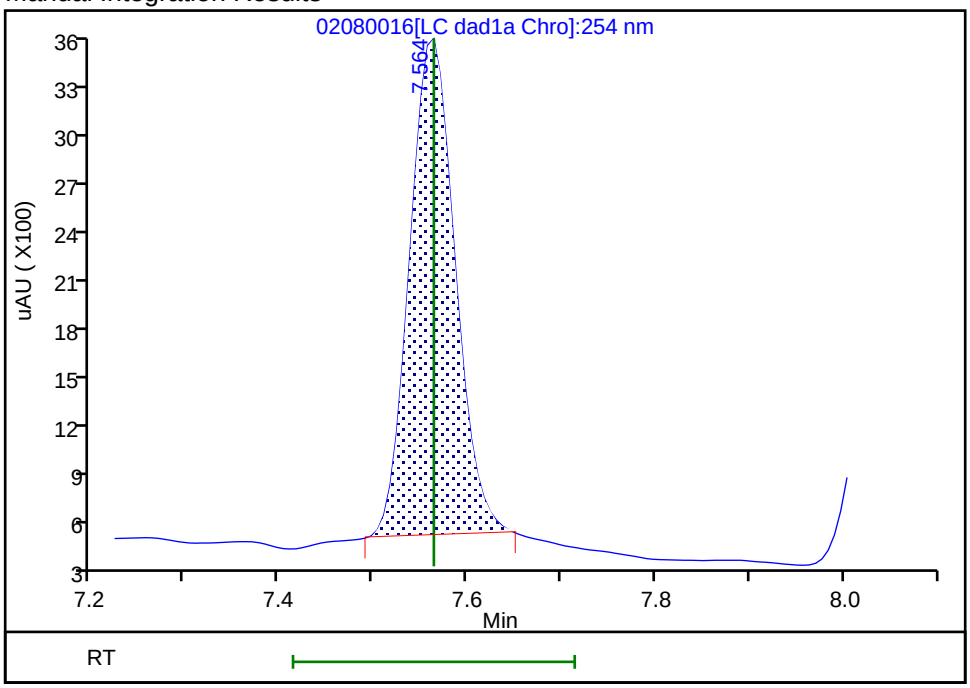
Processing Integration Results

RT: 7.56
Area: 11152
Amount: 0.101776
Amount Units: ug/mL



Manual Integration Results

RT: 7.56
Area: 10112
Amount: 0.095056
Amount Units: ug/mL



Reviewer: LV5D, 08-Feb-2023 19:09:38
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

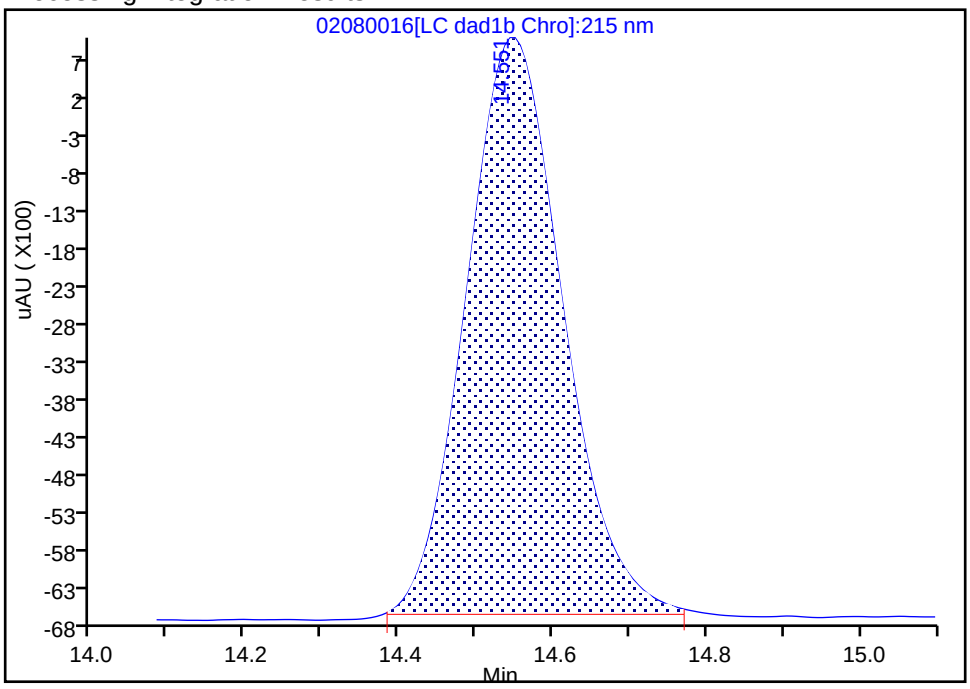
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080016.d				
Injection Date:	08-Feb-2023 17:33:25	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 4				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1C, 215 nm		

25 PETN, CAS: 78-11-5

Signal: 1

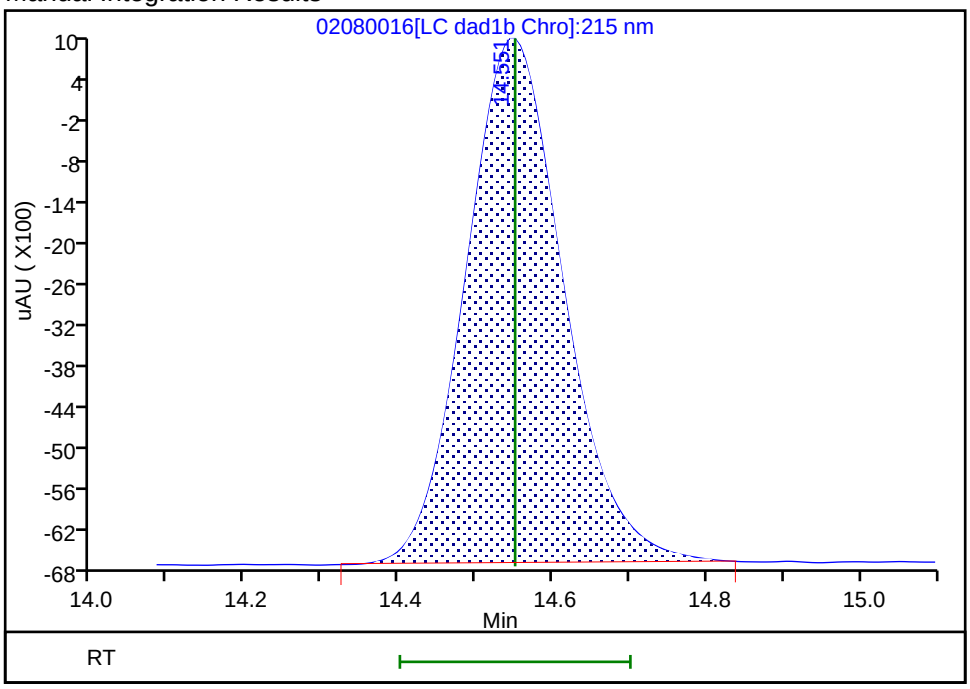
Processing Integration Results

RT: 14.55
Area: 66752
Amount: 0.971802
Amount Units: ug/mL



Manual Integration Results

RT: 14.55
Area: 68161
Amount: 0.990059
Amount Units: ug/mL



Reviewer: LV5D, 08-Feb-2023 19:08:31

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\02080017.D
Lims ID: IC INT 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-Feb-2023 17:56:21 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 3
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub26

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 09-Feb-2023 12:48:07 Calib Date: 08-Feb-2023 18:42:13
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\02080019.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1604

First Level Reviewer: LV5D Date: 08-Feb-2023 19:07:50

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
4 HMX	1	6.547	6.544	0.003	4648	0.0500	0.0497	M
8 RDX	1	7.567	7.564	0.003	5236	0.0500	0.0492	M
9 2,4,6-Trinitrophenol	1	8.047	8.044	0.003	3768	0.0500	0.0497	
$ 10 1,2-Dinitrobenzene	1	8.520	8.517	0.003	6278	0.0500	0.0497	
11 1,3,5-Trinitrobenzene	1	8.647	8.644	0.003	10679	0.0500	0.0492	
12 1,3-Dinitrobenzene	1	9.260	9.257	0.003	14664	0.0500	0.0498	
13 Nitrobenzene	1	9.633	9.631	0.002	9605	0.0500	0.0502	
14 3,5-Dinitroaniline	1	9.840	9.831	0.009	11426	0.0500	0.0505	
15 Tetryl	1	9.987	9.977	0.010	8153	0.0500	0.0497	
16 Nitroglycerin	2	10.453	10.437	0.016	31649	0.5000	0.4940	
17 2,4,6-Trinitrotoluene	1	10.880	10.864	0.016	10708	0.0500	0.0507	
18 4-Amino-2,6-dinitrotoluene	1	11.040	11.031	0.009	7875	0.0500	0.0508	
19 2-Amino-4,6-dinitrotoluene	1	11.293	11.277	0.016	10072	0.0500	0.0500	
20 2,6-Dinitrotoluene	1	11.467	11.451	0.016	7109	0.0500	0.0498	
21 2,4-Dinitrotoluene	1	11.633	11.617	0.016	14872	0.0500	0.0501	
22 o-Nitrotoluene	1	12.453	12.437	0.016	6623	0.0500	0.0518	
23 p-Nitrotoluene	1	12.867	12.844	0.023	5584	0.0500	0.0499	
24 m-Nitrotoluene	1	13.433	13.411	0.022	7096	0.0500	0.0505	
25 PETN	2	14.580	14.551	0.029	34057	0.5000	0.4947	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00075 Amount Added: 5.00 Units: uL

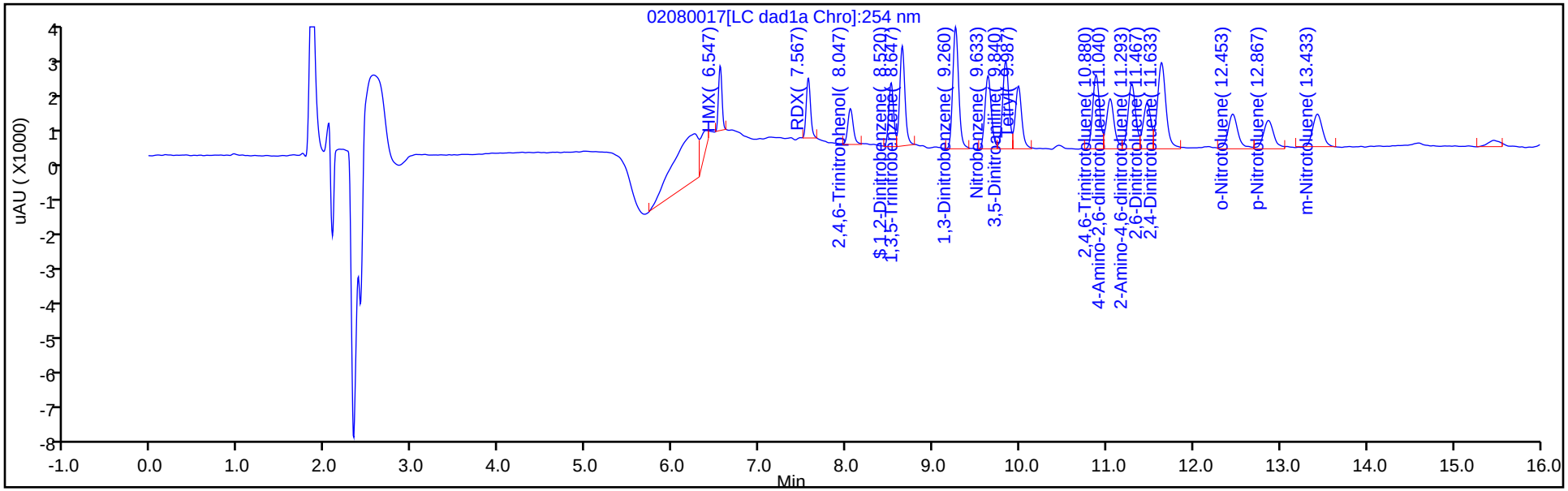
Report Date: 09-Feb-2023 12:48:07 Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Denver

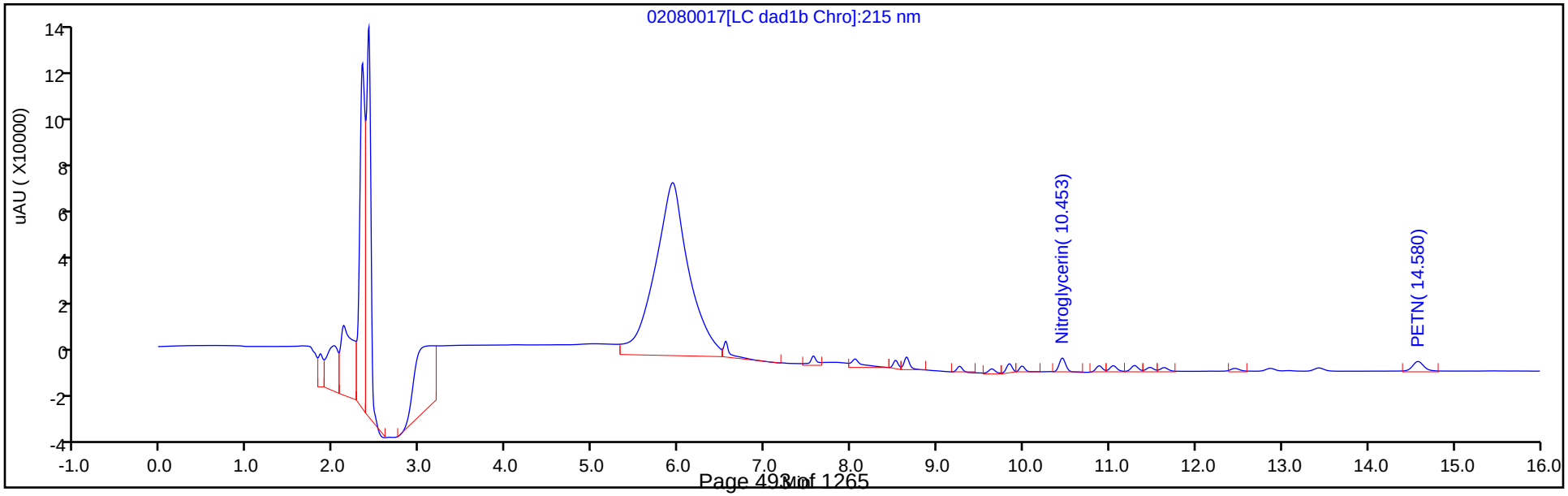
Data File: \\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080017.d

Injection Date:	08-Feb-2023 17:56:21	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC INT 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



Manual Integration/User Assign Peak Report

Eurofins Denver

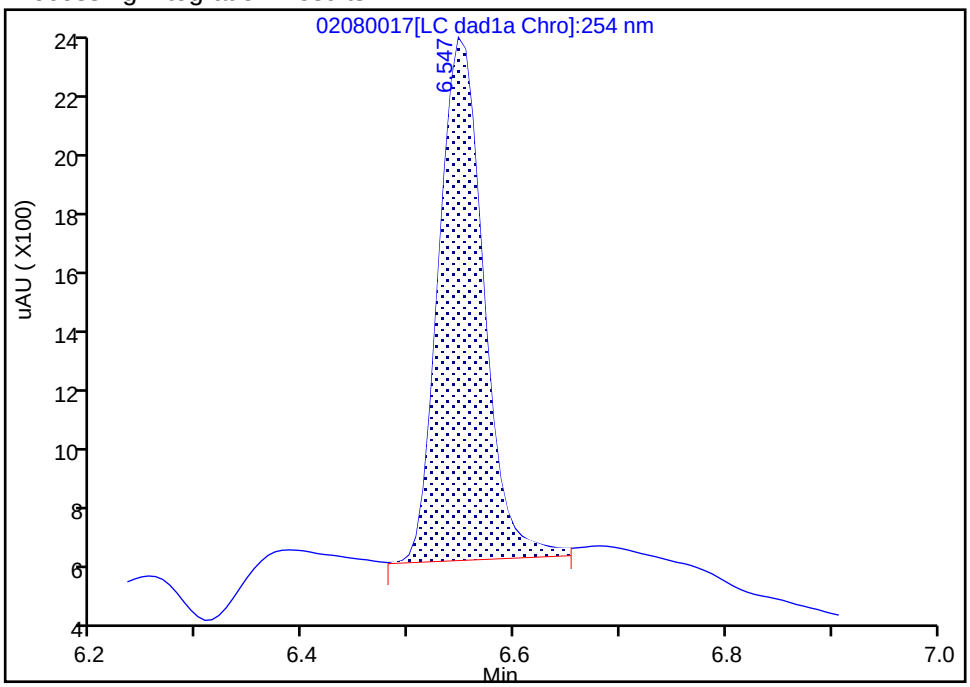
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080017.d				
Injection Date:	08-Feb-2023 17:56:21	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 3				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

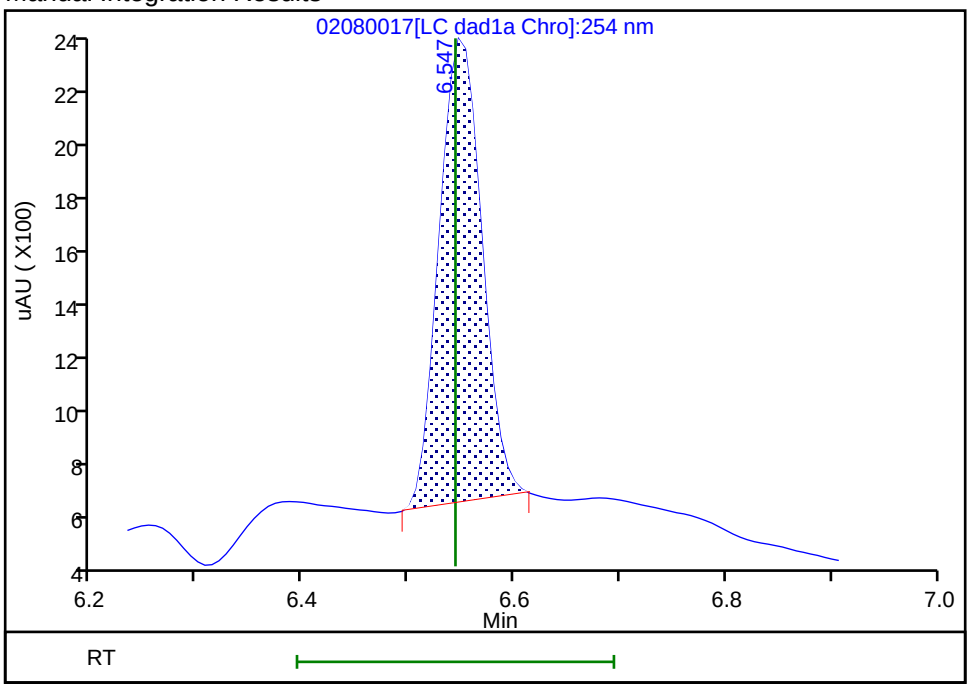
Processing Integration Results

RT: 6.55
Area: 4942
Amount: 0.050700
Amount Units: ug/mL



Manual Integration Results

RT: 6.55
Area: 4648
Amount: 0.049696
Amount Units: ug/mL



Reviewer: LV5D, 08-Feb-2023 19:07:46

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

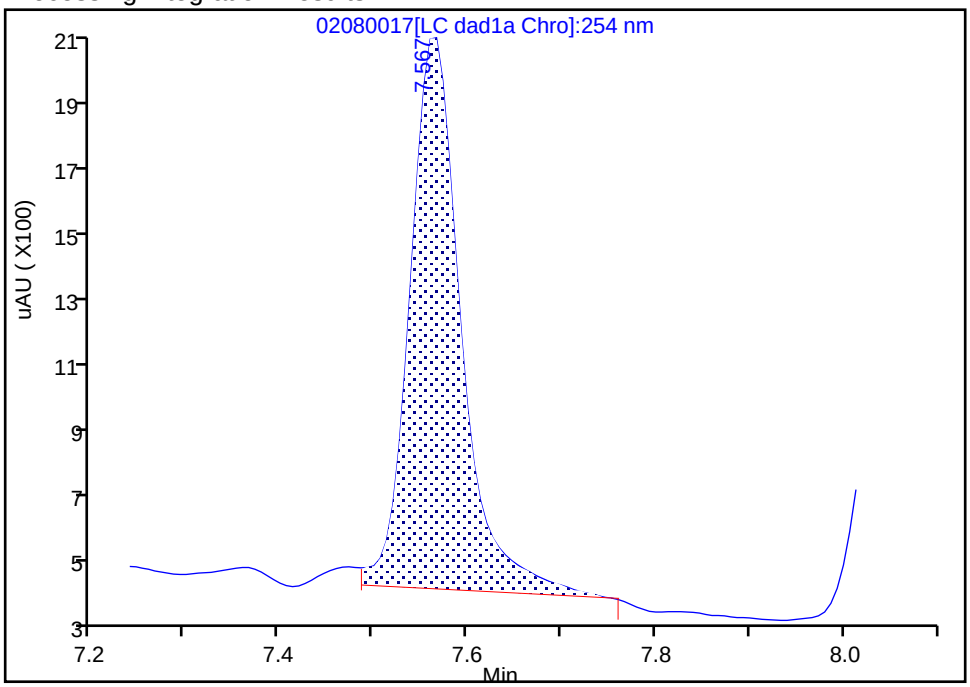
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080017.d				
Injection Date:	08-Feb-2023 17:56:21	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 3				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

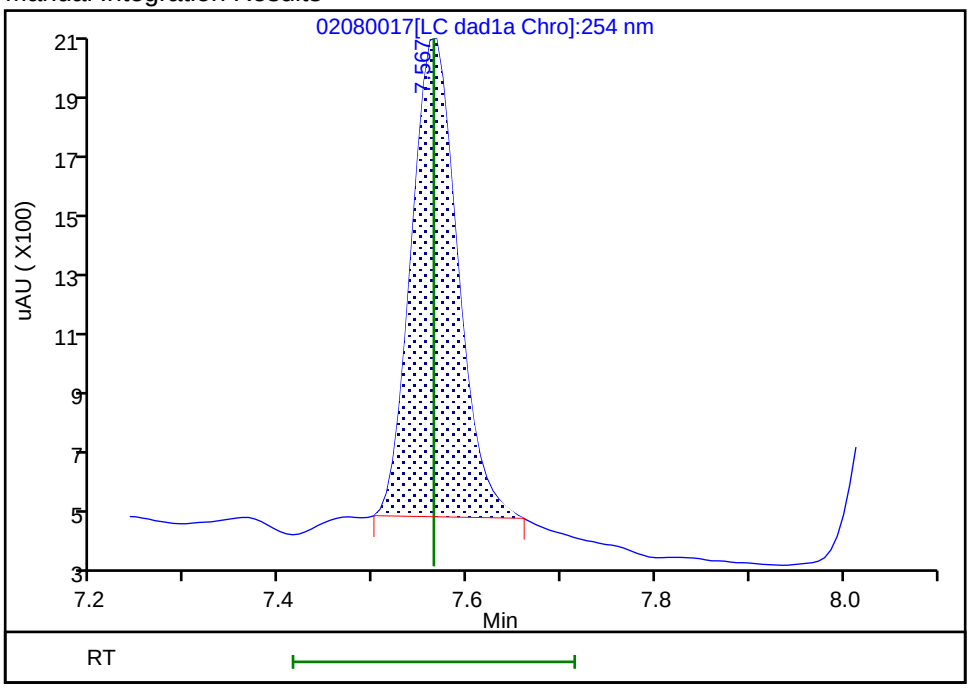
Processing Integration Results

RT: 7.57
Area: 6041
Amount: 0.054246
Amount Units: ug/mL



Manual Integration Results

RT: 7.57
Area: 5236
Amount: 0.049220
Amount Units: ug/mL



Reviewer: LV5D, 08-Feb-2023 19:09:26
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

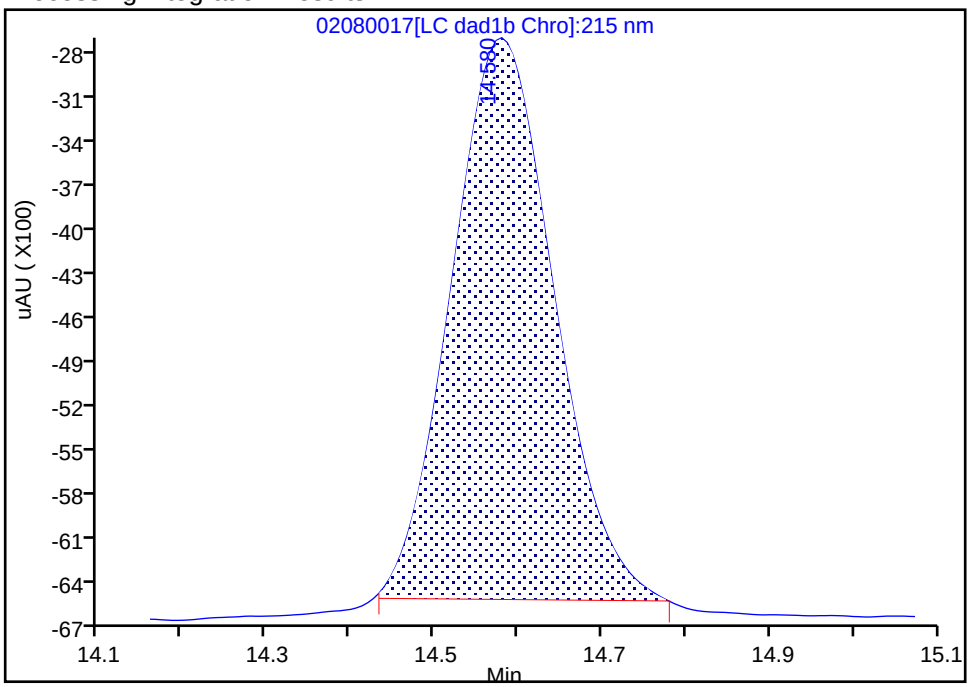
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080017.d				
Injection Date:	08-Feb-2023 17:56:21	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 3				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1C, 215 nm		

25 PETN, CAS: 78-11-5

Signal: 1

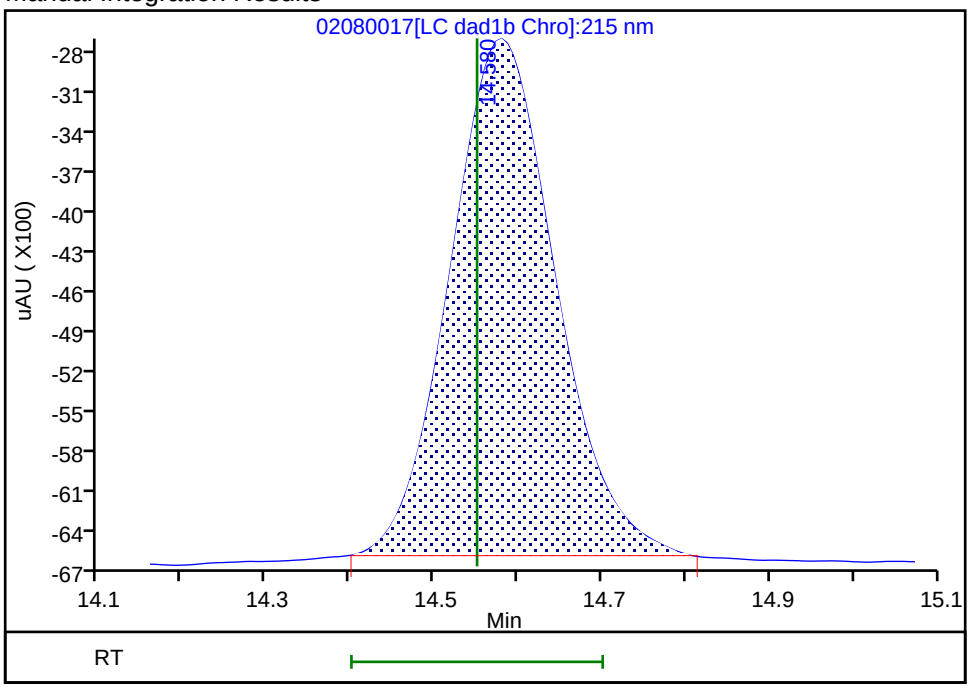
Processing Integration Results

RT: 14.58
Area: 32403
Amount: 0.474274
Amount Units: ug/mL



Manual Integration Results

RT: 14.58
Area: 34057
Amount: 0.494688
Amount Units: ug/mL



Reviewer: LV5D, 08-Feb-2023 19:08:23

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\02080018.D
Lims ID: IC INT 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Feb-2023 18:19:14 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 2
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub26

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 09-Feb-2023 12:48:08 Calib Date: 08-Feb-2023 18:42:13
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\02080019.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1604

First Level Reviewer: LV5D Date: 08-Feb-2023 19:08:08

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
4 HMX	1	6.549	6.544	0.005	1961	0.0200	0.0210	M
8 RDX	1	7.563	7.564	-0.001	2196	0.0200	0.0206	M
9 2,4,6-Trinitrophenol	1	8.049	8.044	0.005	1492	0.0200	0.0197	
$ 10 1,2-Dinitrobenzene	1	8.516	8.517	-0.001	2491	0.0200	0.0197	
11 1,3,5-Trinitrobenzene	1	8.643	8.644	-0.001	4313	0.0200	0.0199	
12 1,3-Dinitrobenzene	1	9.256	9.257	-0.001	5849	0.0200	0.0199	
13 Nitrobenzene	1	9.636	9.631	0.005	3816	0.0200	0.0200	
14 3,5-Dinitroaniline	1	9.836	9.831	0.005	4377	0.0200	0.0198	
15 Tetryl	1	9.982	9.977	0.005	3073	0.0200	0.0187	
16 Nitroglycerin	2	10.449	10.437	0.012	11879	0.2000	0.1854	
17 2,4,6-Trinitrotoluene	1	10.876	10.864	0.012	4262	0.0200	0.0202	
18 4-Amino-2,6-dinitrotoluene	1	11.042	11.031	0.011	3106	0.0200	0.0200	
19 2-Amino-4,6-dinitrotoluene	1	11.289	11.277	0.012	4021	0.0200	0.0200	
20 2,6-Dinitrotoluene	1	11.469	11.451	0.018	2911	0.0200	0.0204	
21 2,4-Dinitrotoluene	1	11.636	11.617	0.019	5985	0.0200	0.0202	
22 o-Nitrotoluene	1	12.456	12.437	0.019	2611	0.0200	0.0204	
23 p-Nitrotoluene	1	12.869	12.844	0.025	2393	0.0200	0.0214	
24 m-Nitrotoluene	1	13.442	13.411	0.031	3062	0.0200	0.0218	
25 PETN	2	14.589	14.551	0.038	13462	0.2000	0.1955	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00075 Amount Added: 2.00 Units: uL

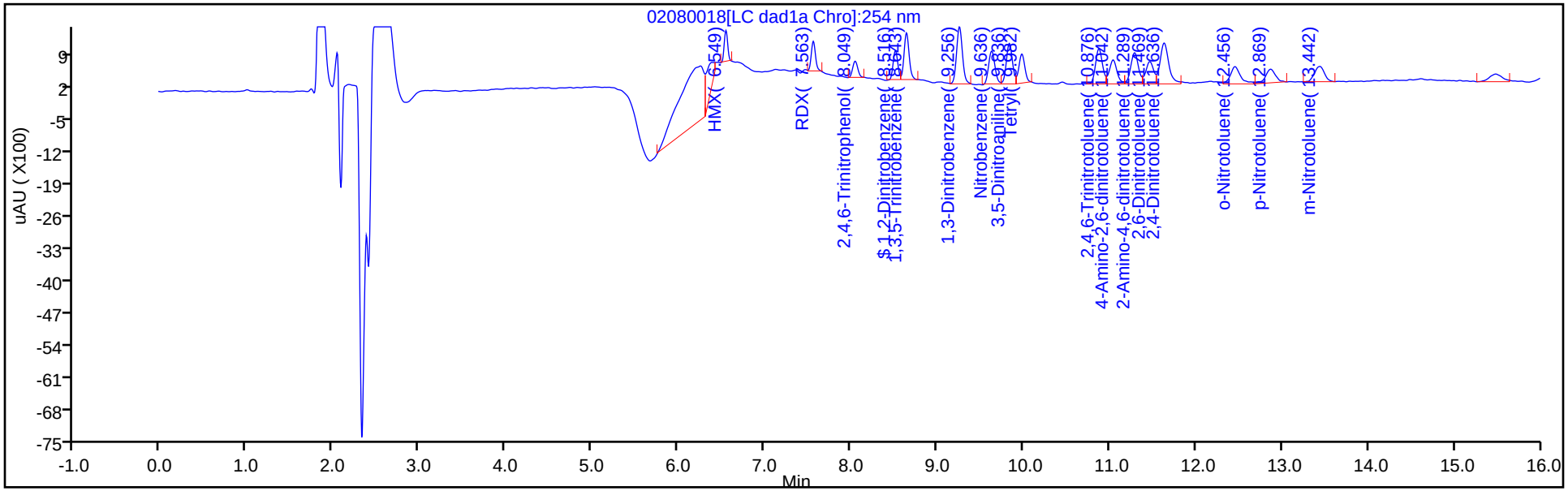
Report Date: 09-Feb-2023 12:48:08 Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Denver

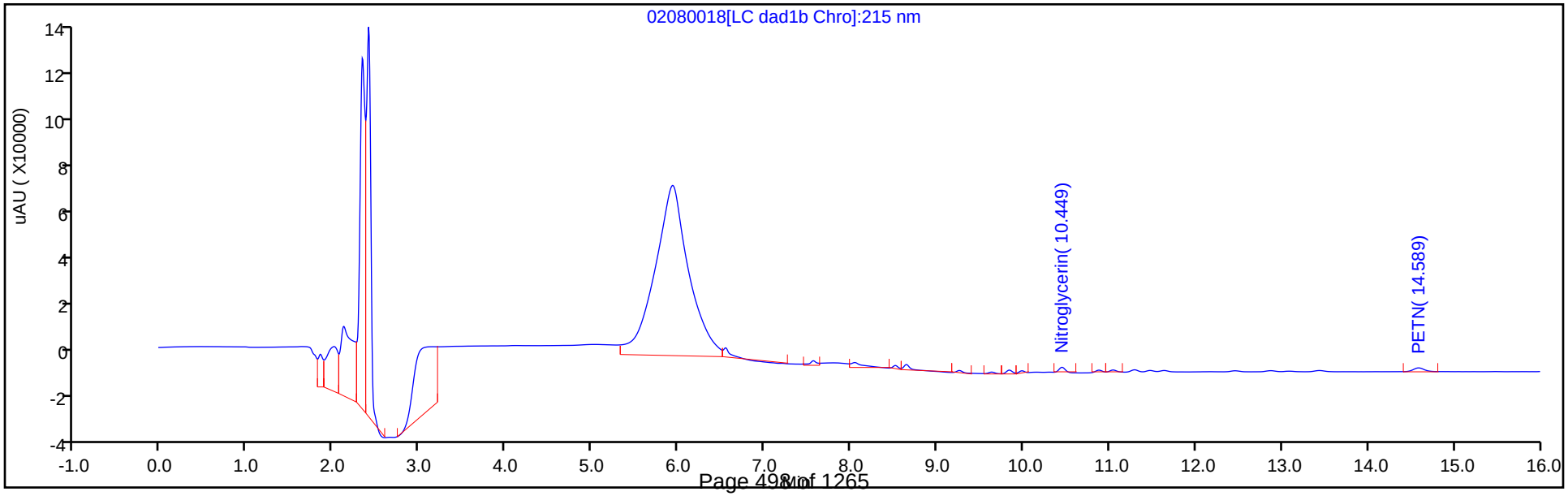
Data File: \\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080018.d

Injection Date:	08-Feb-2023 18:19:14	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC INT 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



Manual Integration/User Assign Peak Report

Eurofins Denver

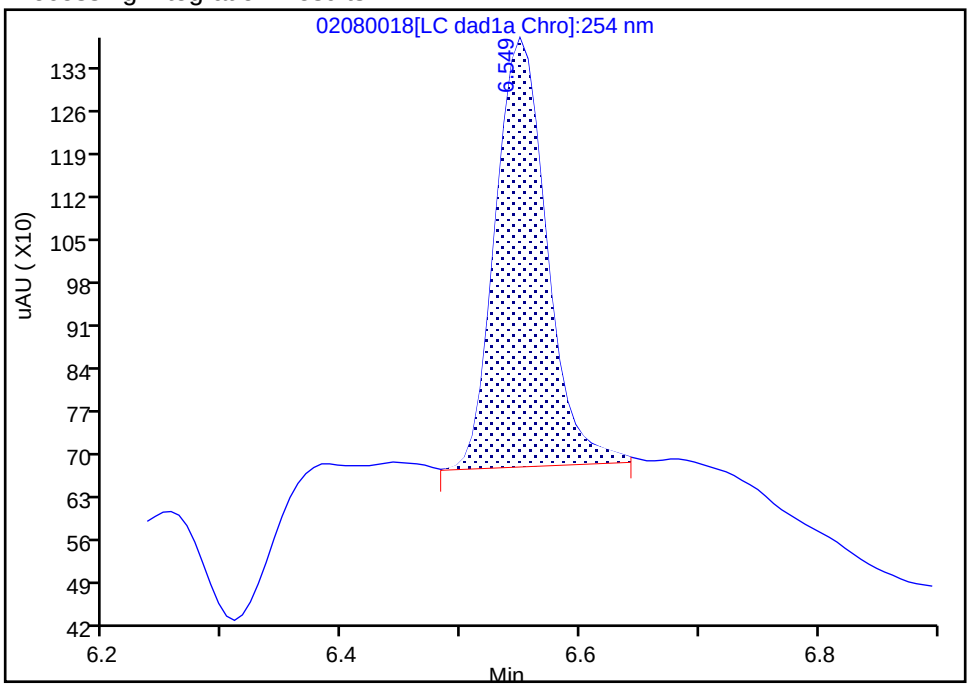
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080018.d				
Injection Date:	08-Feb-2023 18:19:14	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 2				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

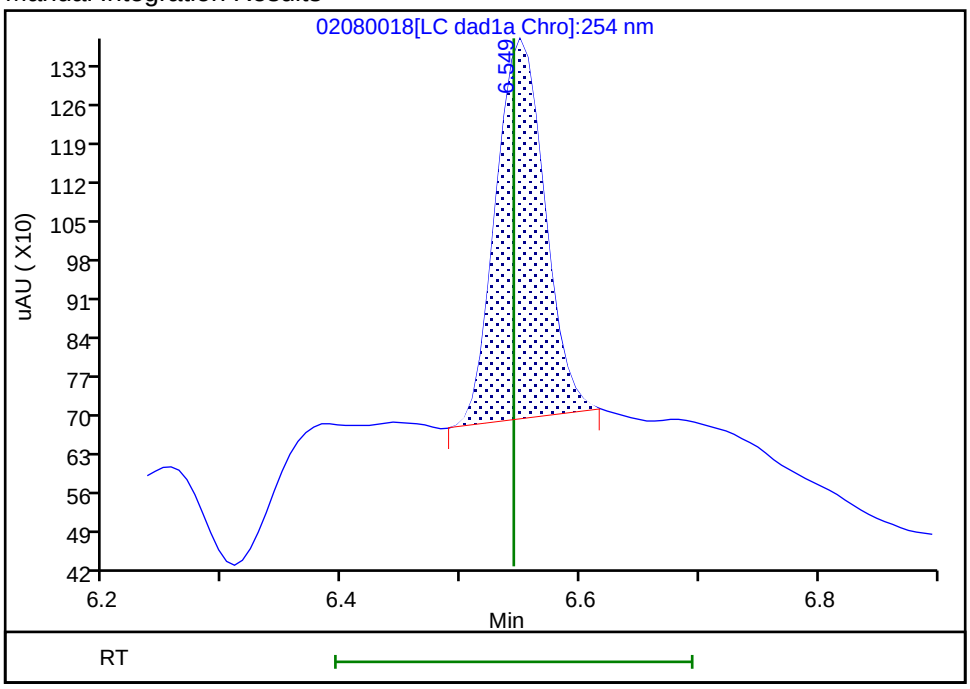
Processing Integration Results

RT: 6.55
Area: 2102
Amount: 0.022288
Amount Units: ug/mL



Manual Integration Results

RT: 6.55
Area: 1961
Amount: 0.020967
Amount Units: ug/mL



Reviewer: LV5D, 08-Feb-2023 19:09:07

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

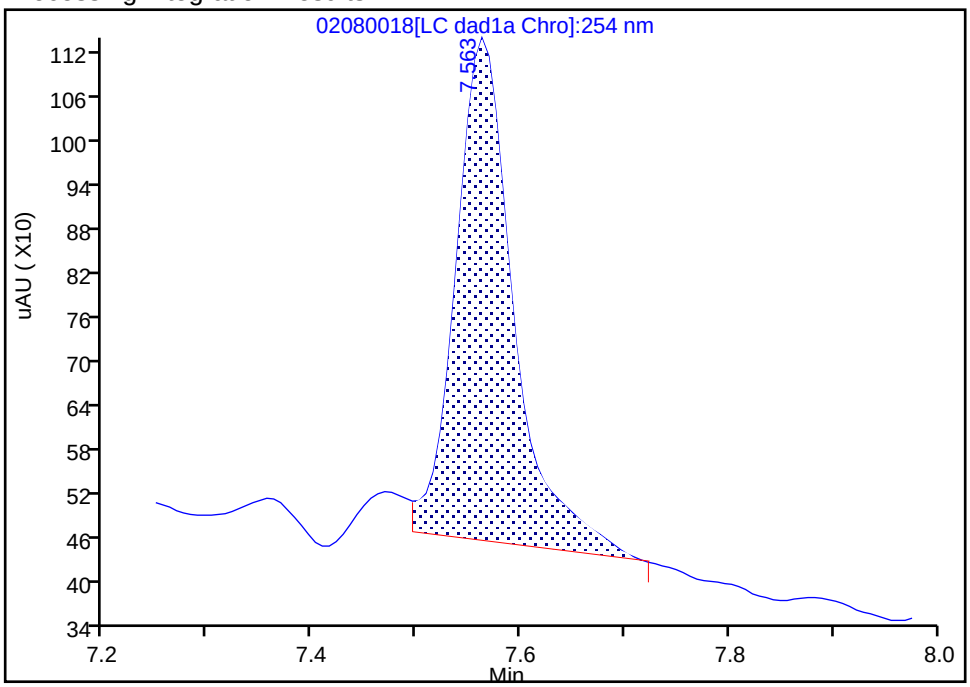
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080018.d				
Injection Date:	08-Feb-2023 18:19:14	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 2				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

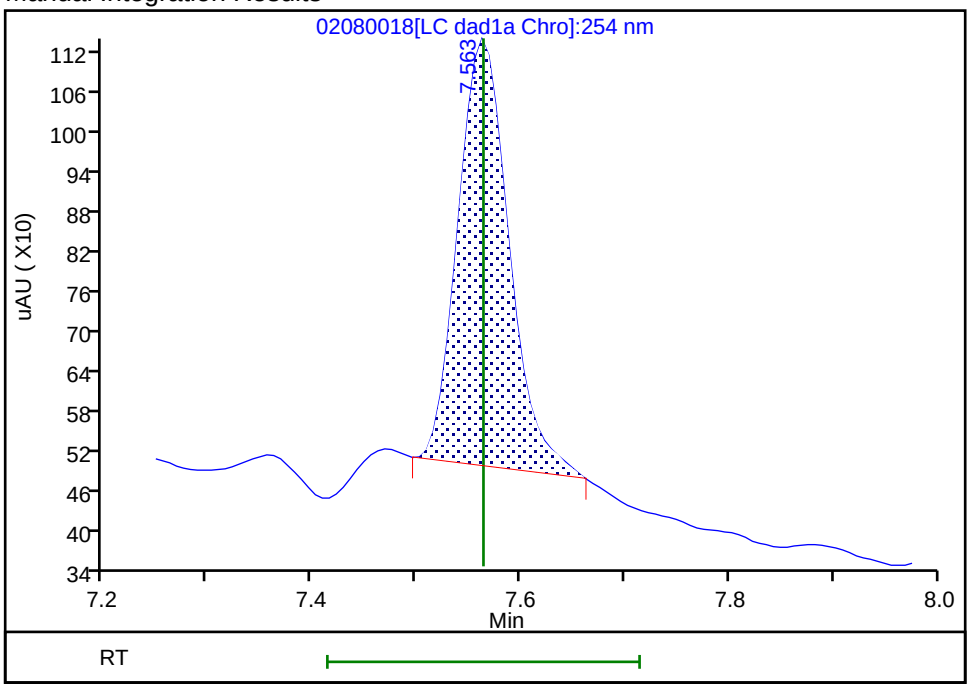
Processing Integration Results

RT: 7.56
Area: 2668
Amount: 0.023407
Amount Units: ug/mL



Manual Integration Results

RT: 7.56
Area: 2196
Amount: 0.020643
Amount Units: ug/mL



Reviewer: LV5D, 08-Feb-2023 19:09:19
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

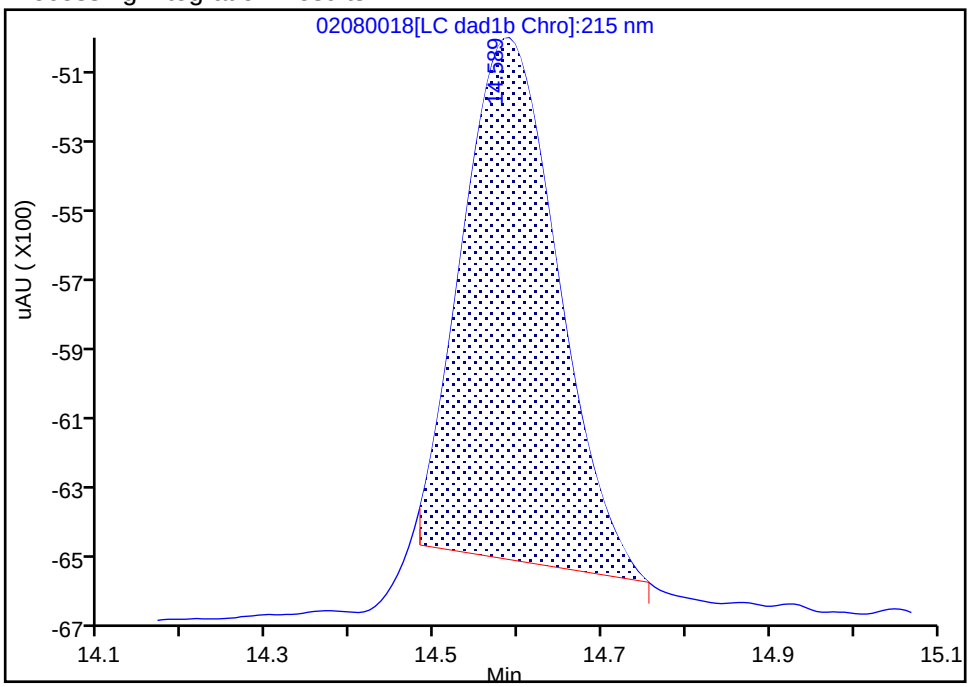
Data File: \\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080018.d
Injection Date: 08-Feb-2023 18:19:14 Instrument ID: CHHPLC_X3
Lims ID: IC INT 2
Client ID:
Operator ID: JZ/MAR ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1C, 215 nm

25 PETN, CAS: 78-11-5

Signal: 1

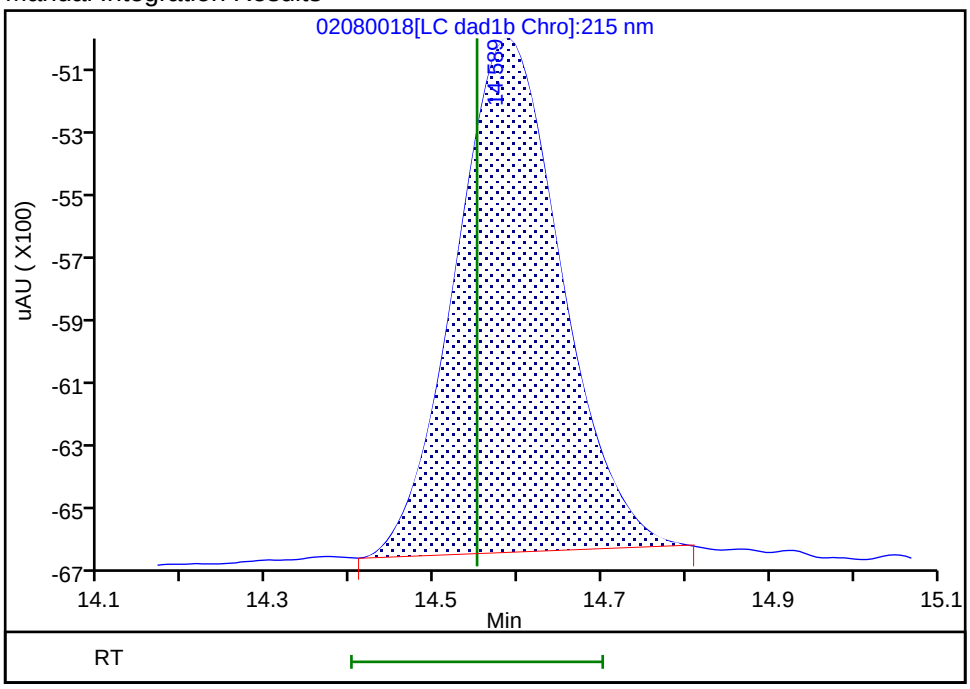
Processing Integration Results

RT: 14.59
Area: 11186
Amount: 0.166814
Amount Units: ug/mL



Manual Integration Results

RT: 14.59
Area: 13462
Amount: 0.195540
Amount Units: ug/mL



Reviewer: LV5D, 08-Feb-2023 19:08:19
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\02080019.D
Lims ID: IC INT 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Feb-2023 18:42:13 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC INT 1
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub26

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 09-Feb-2023 12:48:08 Calib Date: 08-Feb-2023 18:42:13
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\02080019.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1604

First Level Reviewer: LV5D Date: 08-Feb-2023 19:08:17

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
4 HMX	1	6.550	6.544	0.006	962	0.0100	0.0103	M
8 RDX	1	7.563	7.564	-0.001	1203	0.0100	0.0113	M
9 2,4,6-Trinitrophenol	1	8.050	8.044	0.006	673	0.0100	0.008875	
$ 10 1,2-Dinitrobenzene	1	8.517	8.517	0.000	1188	0.0100	0.009406	
11 1,3,5-Trinitrobenzene	1	8.643	8.644	-0.001	2196	0.0100	0.0101	
12 1,3-Dinitrobenzene	1	9.263	9.257	0.006	2902	0.0100	0.009857	
13 Nitrobenzene	1	9.636	9.631	0.005	1905	0.0100	0.0100	
14 3,5-Dinitroaniline	1	9.836	9.831	0.005	2147	0.0100	0.0100	
15 Tetryl	1	9.983	9.977	0.006	1611	0.0100	0.009816	
16 Nitroglycerin	2	10.450	10.437	0.013	6159	0.1000	0.0961	
17 2,4,6-Trinitrotoluene	1	10.876	10.864	0.012	2167	0.0100	0.0103	
18 4-Amino-2,6-dinitrotoluene	1	11.043	11.031	0.012	1670	0.0100	0.0108	
19 2-Amino-4,6-dinitrotoluene	1	11.296	11.277	0.019	2214	0.0100	0.0110	
20 2,6-Dinitrotoluene	1	11.470	11.451	0.019	1486	0.0100	0.0104	
21 2,4-Dinitrotoluene	1	11.636	11.617	0.019	3141	0.0100	0.0106	
22 o-Nitrotoluene	1	12.456	12.437	0.019	1377	0.0100	0.0108	
23 p-Nitrotoluene	1	12.863	12.844	0.019	1263	0.0100	0.0113	
24 m-Nitrotoluene	1	13.430	13.411	0.019	1473	0.0100	0.0105	
25 PETN	2	14.583	14.551	0.032	7273	0.1000	0.1056	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00075 Amount Added: 1.00 Units: uL

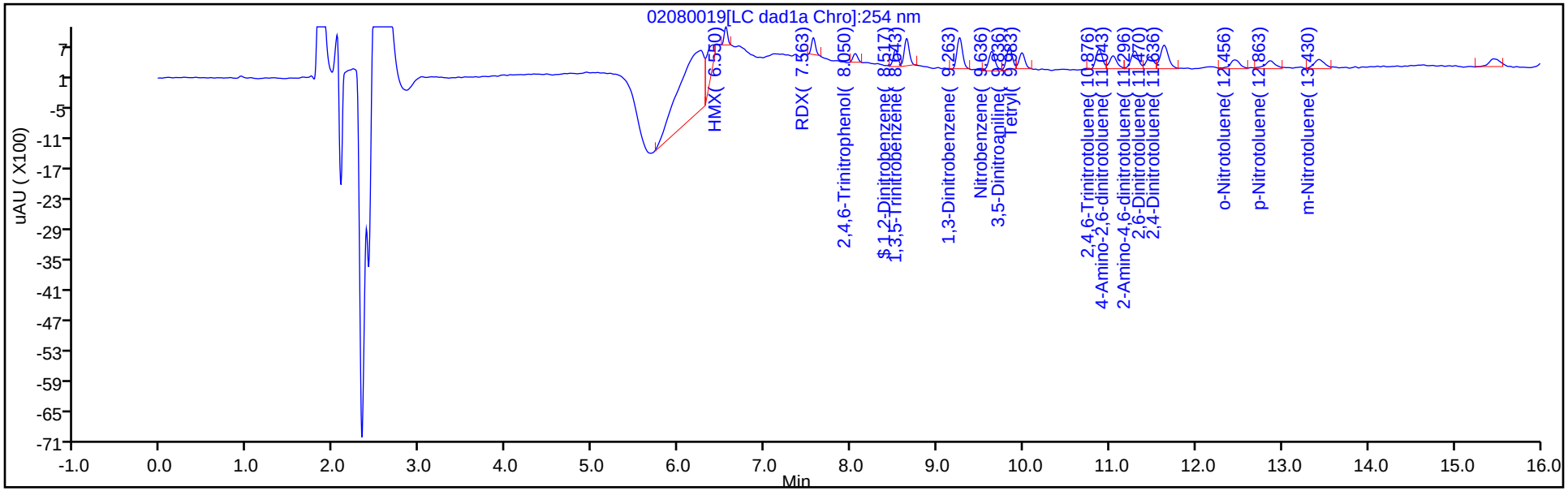
Report Date: 09-Feb-2023 12:48:08 Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Denver

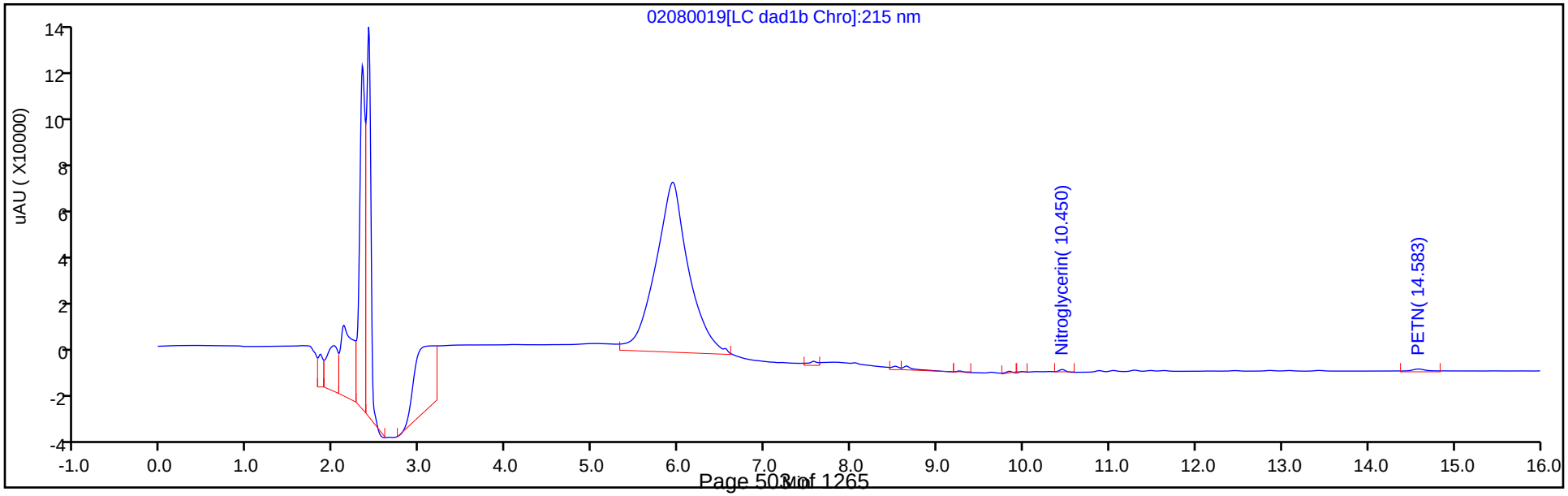
Data File: \\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080019.d

Injection Date:	08-Feb-2023 18:42:13	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC INT 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



Manual Integration/User Assign Peak Report

Eurofins Denver

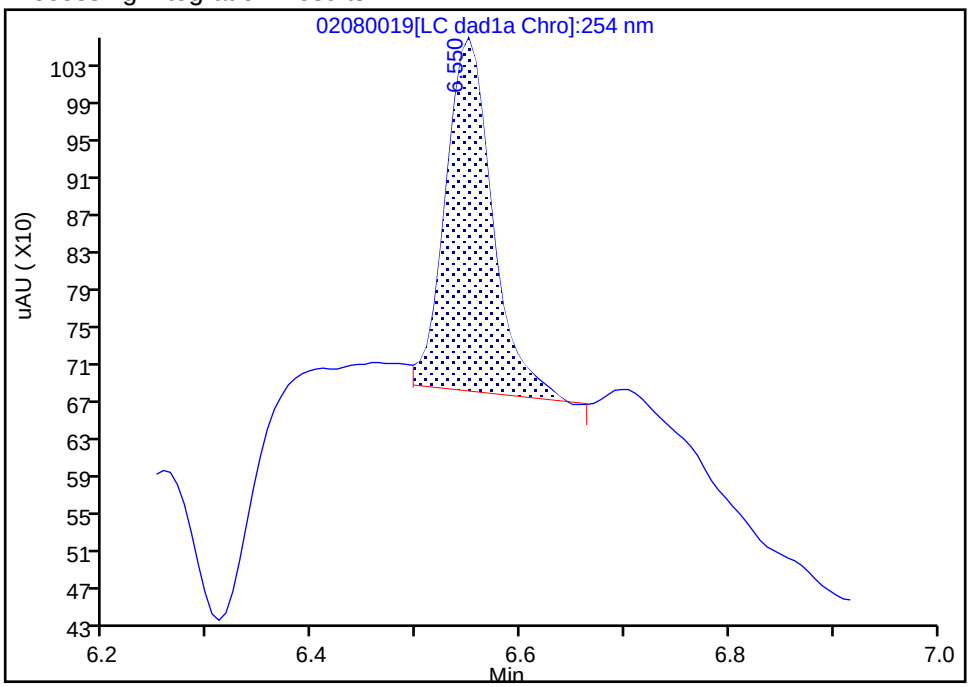
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080019.d				
Injection Date:	08-Feb-2023 18:42:13	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 1				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

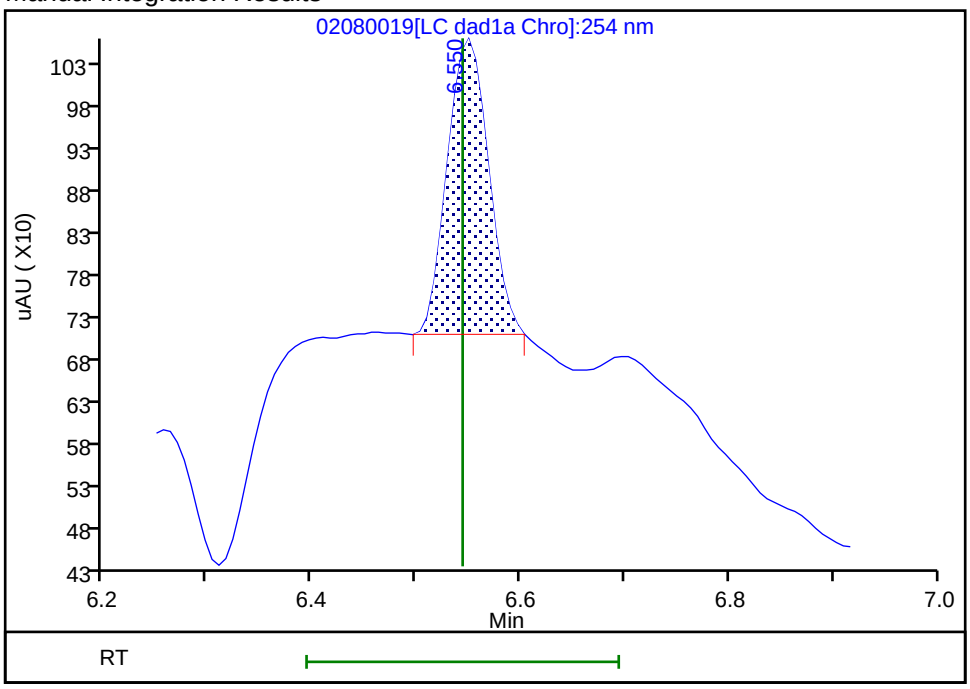
Processing Integration Results

RT: 6.55
Area: 1188
Amount: 0.012270
Amount Units: ug/mL



Manual Integration Results

RT: 6.55
Area: 962
Amount: 0.010286
Amount Units: ug/mL



Reviewer: LV5D, 08-Feb-2023 19:09:00
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

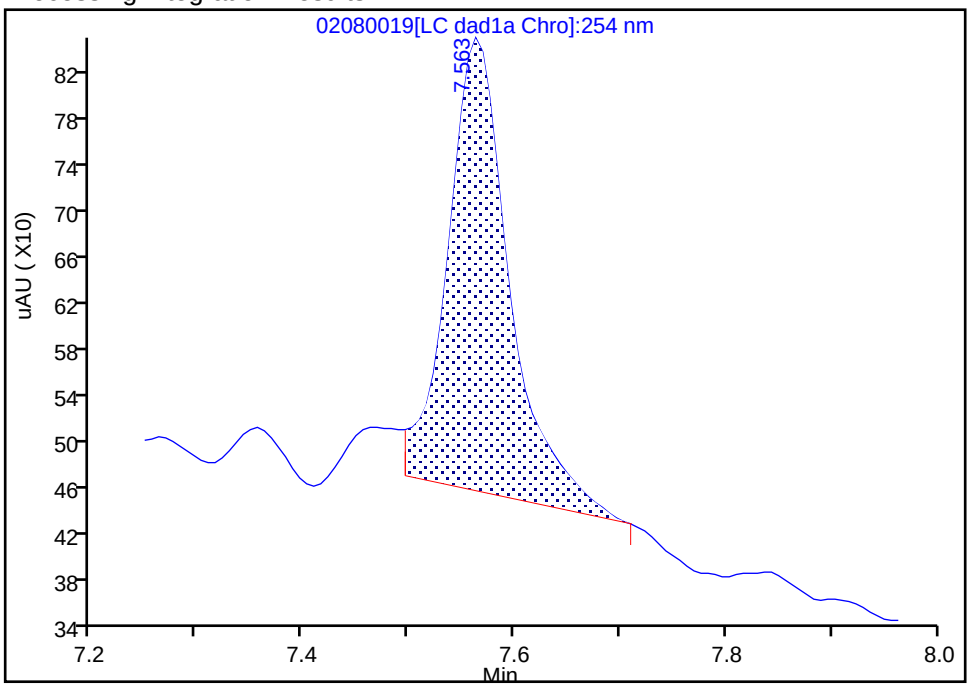
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080019.d				
Injection Date:	08-Feb-2023 18:42:13	Instrument ID:	CHHPLC_X3		
Lims ID:	IC INT 1				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

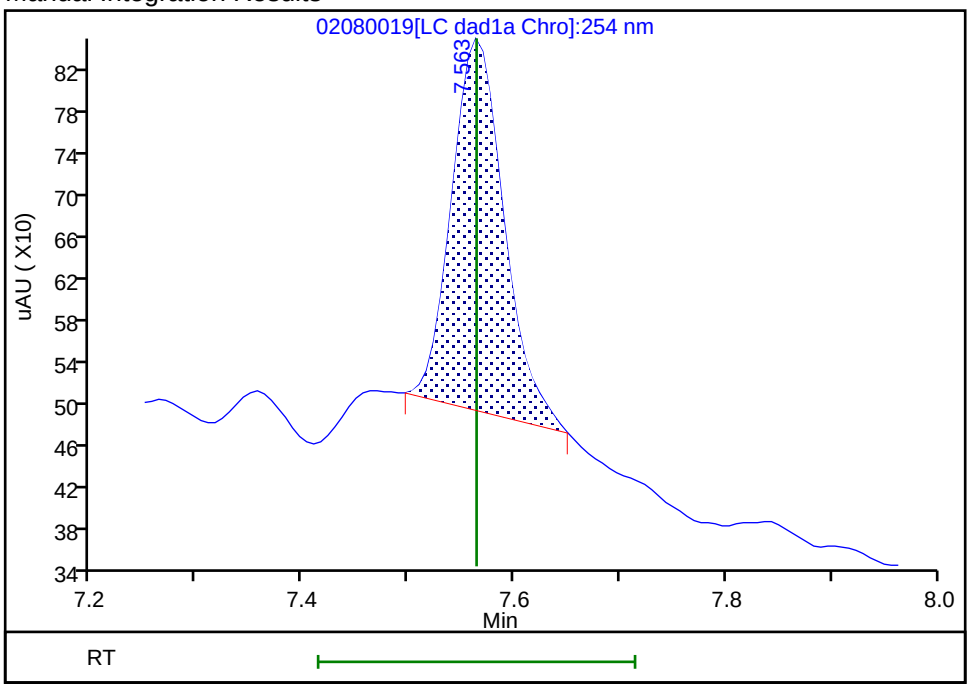
Processing Integration Results

RT: 7.56
Area: 1576
Amount: 0.013341
Amount Units: ug/mL



Manual Integration Results

RT: 7.56
Area: 1203
Amount: 0.011309
Amount Units: ug/mL



Reviewer: LV5D, 08-Feb-2023 19:08:52
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1 Analy Batch No.: 603284

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/24/2023 15:00 Calibration End Date: 02/24/2023 17:41 Calibration ID: 77558

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-603284/18	02240018.D
Level 2	IC 280-603284/17	02240017.D
Level 3	IC 280-603284/16	02240016.D
Level 4	IC 280-603284/15	02240015.D
Level 5	IC 280-603284/14	02240014.D
Level 6	IC 280-603284/13	02240013.D
Level 7	IC 280-603284/12	02240012.D
Level 8	IC 280-603284/11	02240011.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
TNX	6.444	6.448	6.446	6.443	6.442	6.441	6.439	6.442			6.343 - 6.543	6.443
DNX	6.771	6.768	6.766	6.770	6.769	6.767	6.759	6.762			6.670 - 6.870	6.767
MNX	7.197	7.195	7.199	7.196	7.195	7.194	7.192	7.189			7.046 - 7.346	7.195

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver | Job No.: 280-176591-1 | Analy Batch No.: 603284

SDG No.:

Instrument ID: CHHPLC_X3 | GC Column: UltraCarb5u ID: 4.6(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 02/24/2023 15:00 | Calibration End Date: 02/24/2023 17:41 | Calibration ID: 77558

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-603284/18	02240018.D
Level 2	IC 280-603284/17	02240017.D
Level 3	IC 280-603284/16	02240016.D
Level 4	IC 280-603284/15	02240015.D
Level 5	IC 280-603284/14	02240014.D
Level 6	IC 280-603284/13	02240013.D
Level 7	IC 280-603284/12	02240012.D
Level 8	IC 280-603284/11	02240011.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 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
TNX	187089 192298	197747 202669	198325 203463	196782 203127	Ave		197687.33 1				2.9		20.0			
DNX	139760 138674	146613 146977	145554 146290	145335 146496	Ave		144462.48 6				2.3		20.0			
MNX	127763 125139	130334 133592	131602 134086	134629 132227	Ave		131171.56 5				2.5		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.: 280-176591-1 | Analy Batch No.: 603284

SDG No.:

Instrument ID: CHHPLC_X3 | GC Column: UltraCarb5u ID: 4.6(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 02/24/2023 15:00 | Calibration End Date: 02/24/2023 17:41 | Calibration ID: 77558

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-603284/18	02240018.D
Level 2	IC 280-603284/17	02240017.D
Level 3	IC 280-603284/16	02240016.D
Level 4	IC 280-603284/15	02240015.D
Level 5	IC 280-603284/14	02240014.D
Level 6	IC 280-603284/13	02240013.D
Level 7	IC 280-603284/12	02240012.D
Level 8	IC 280-603284/11	02240011.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
TNX	Ave	3753 142294	9917 204073	19892 509340	49343	77150	0.0201 0.702	0.0502 1.00	0.100 2.51	0.251	0.401
DNX	Ave	2798 102987	7338 146436	14570 366607	36370	55525	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250	0.400
MNX	Ave	2982 109131	7605 156478	15358 385772	39278	58415	0.0233 0.817	0.0584 1.17	0.117 2.92	0.292	0.467

Curve Type Legend
Ave = Average

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240011.D
Lims ID: IC DMT 8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 24-Feb-2023 15:00:10 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC DMT 8
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub17

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 28-Feb-2023 13:17:25 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1602

First Level Reviewer: LV5D Date: 24-Feb-2023 15:28:35

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.442	6.443	-0.001	509340	2.51	2.58	M
6 DNX	1	6.762	6.770	-0.008	366607	2.50	2.54	M
7 MNX	1	7.189	7.196	-0.007	385772	2.92	2.94	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00013 Amount Added: 125.00 Units: uL

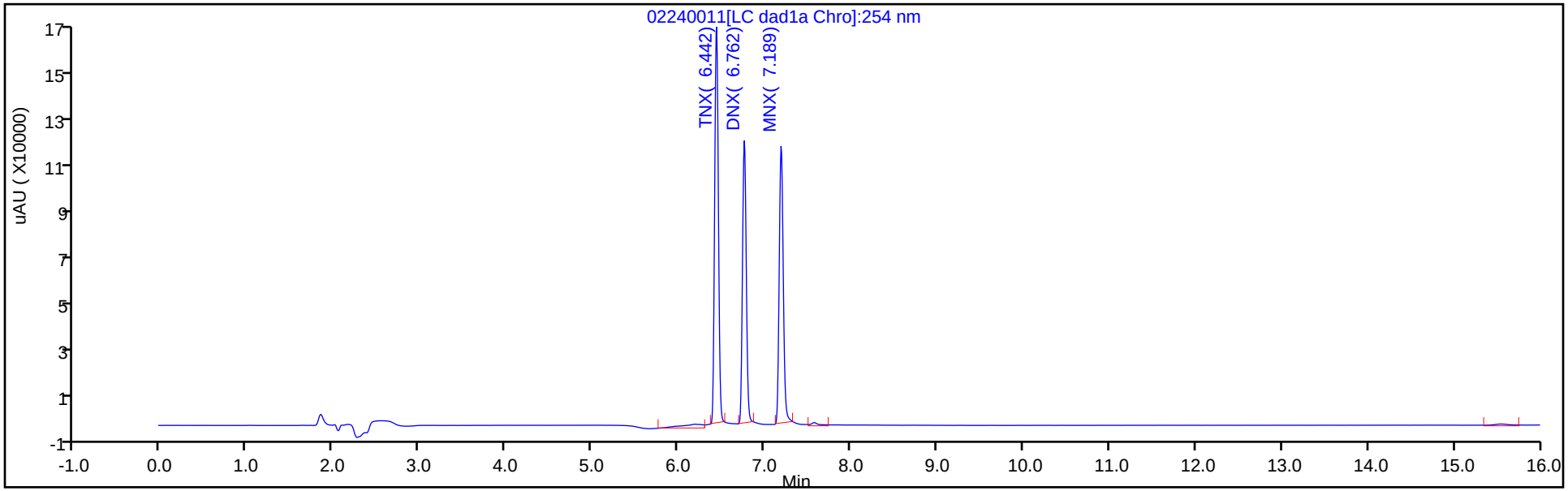
Report Date: 28-Feb-2023 13:17:26 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Denver

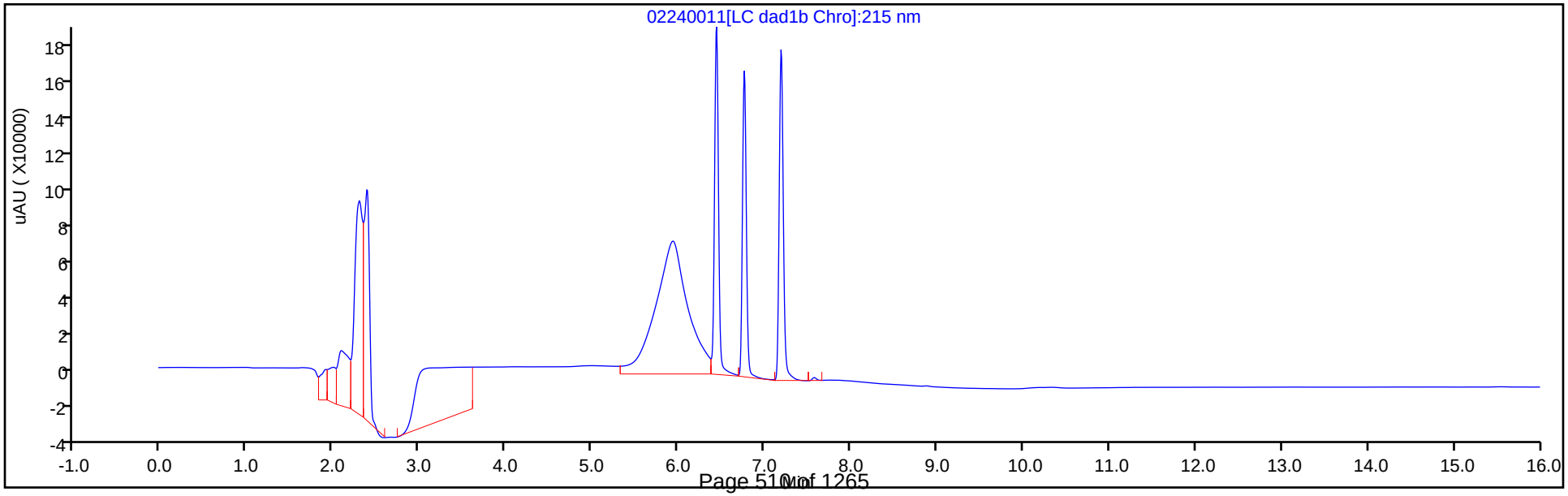
Data File: \\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240011.d

Injection Date:	24-Feb-2023 15:00:10	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC DMT 8			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



Manual Integration/User Assign Peak Report

Eurofins Denver

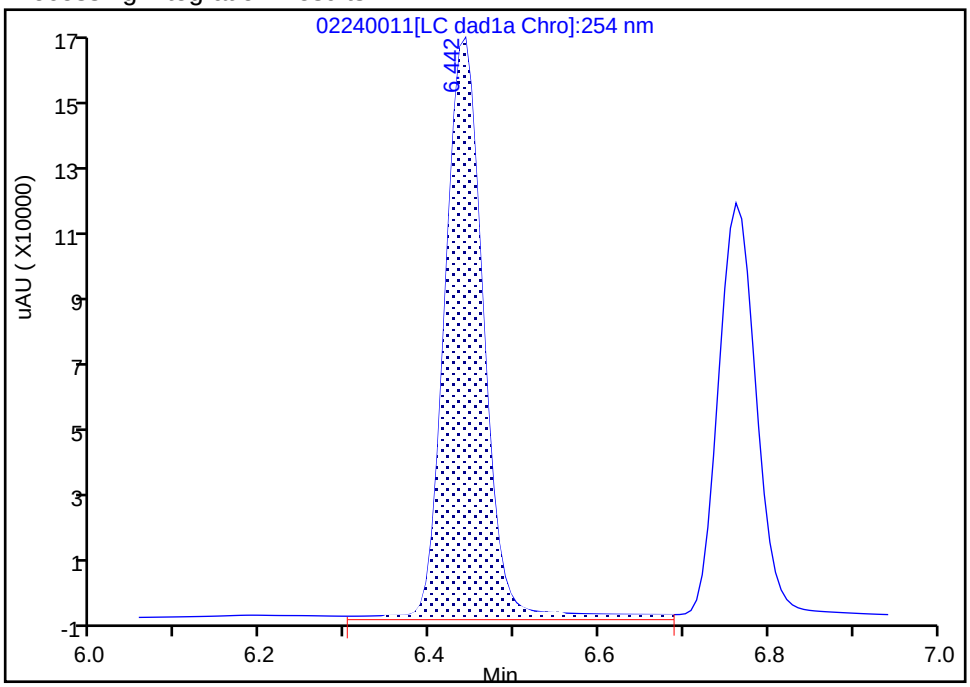
Data File: \\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240011.d
Injection Date: 24-Feb-2023 15:00:10 Instrument ID: CHHPLC_X3
Lims ID: IC DMT 8
Client ID:
Operator ID: JZ/MAR ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

3 TNX, CAS: 13980-04-6

Signal: 1

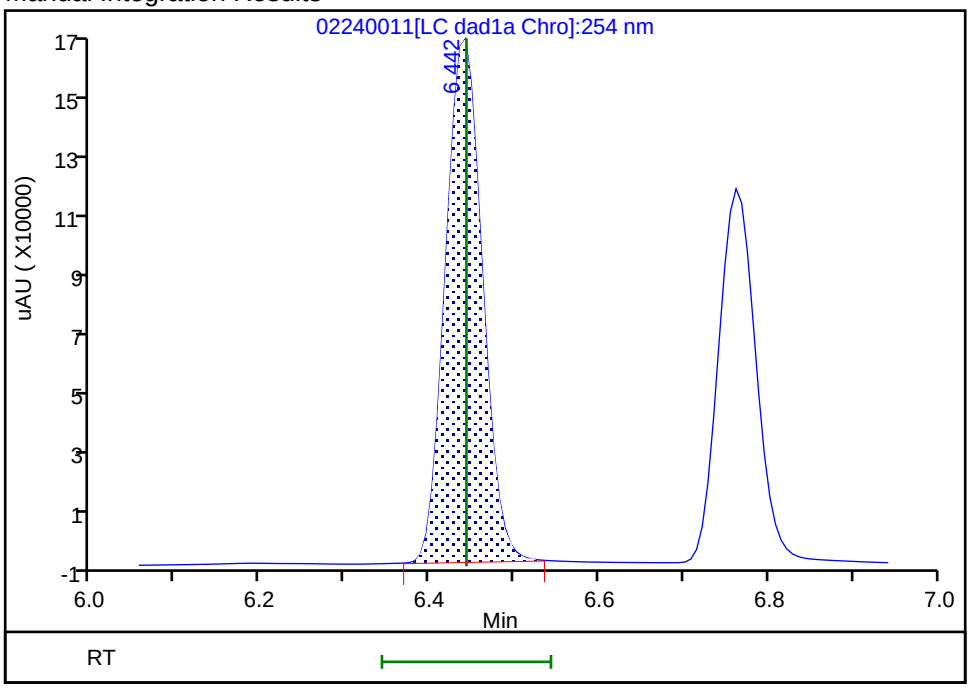
Processing Integration Results

RT: 6.44
Area: 548148
Amount: 2.507500
Amount Units: ug/mL



Manual Integration Results

RT: 6.44
Area: 509340
Amount: 2.576493
Amount Units: ug/mL



Reviewer: LV5D, 24-Feb-2023 16:41:21
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

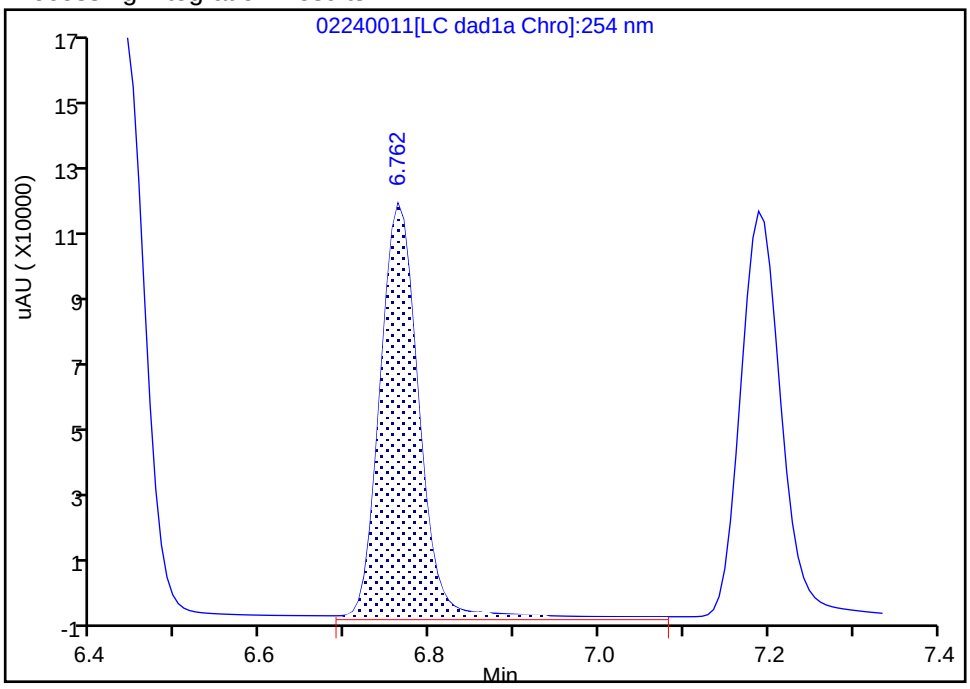
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240011.d				
Injection Date:	24-Feb-2023 15:00:10	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 8				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 DNX, CAS: 80251-29-2

Signal: 1

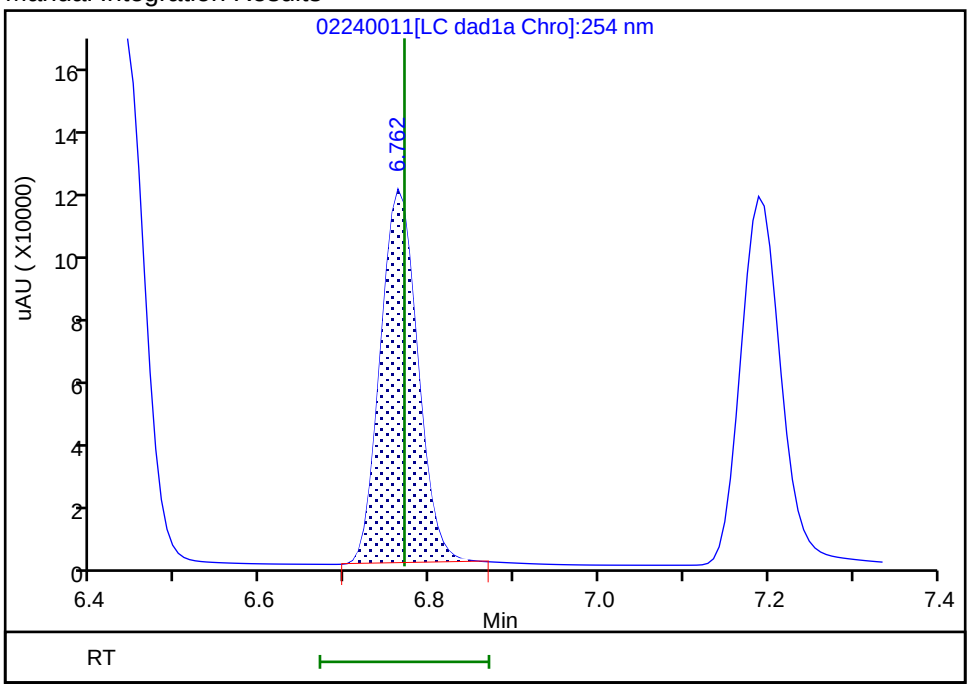
Processing Integration Results

RT: 6.76
Area: 399339
Amount: 2.502500
Amount Units: ug/mL



Manual Integration Results

RT: 6.76
Area: 366607
Amount: 2.537731
Amount Units: ug/mL



Reviewer: LV5D, 24-Feb-2023 16:41:24
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

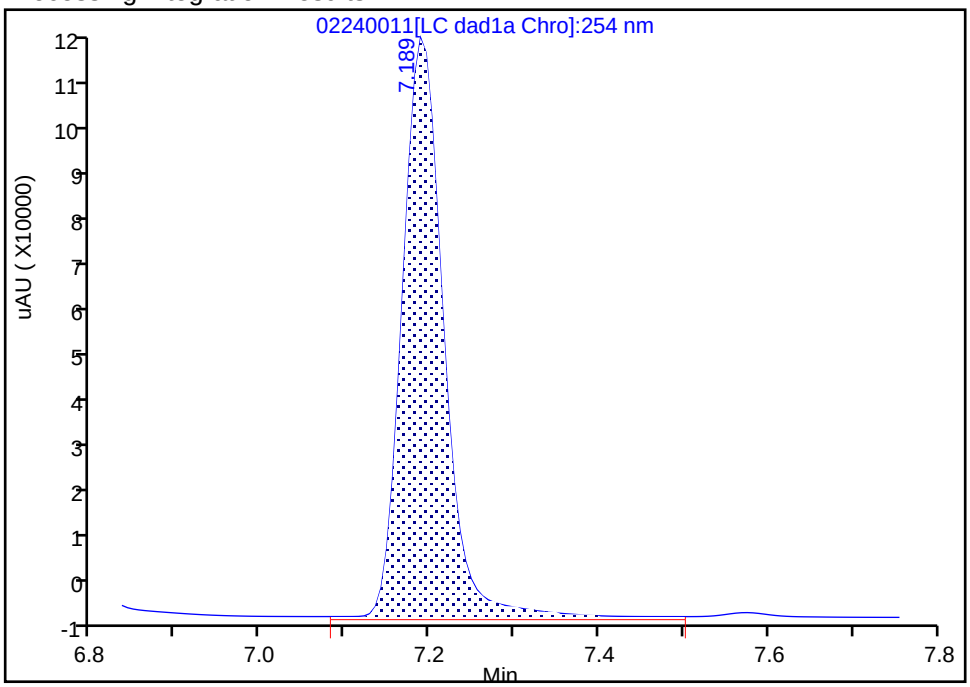
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240011.d				
Injection Date:	24-Feb-2023 15:00:10	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 8				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 MNX, CAS: 5755-27-1

Signal: 1

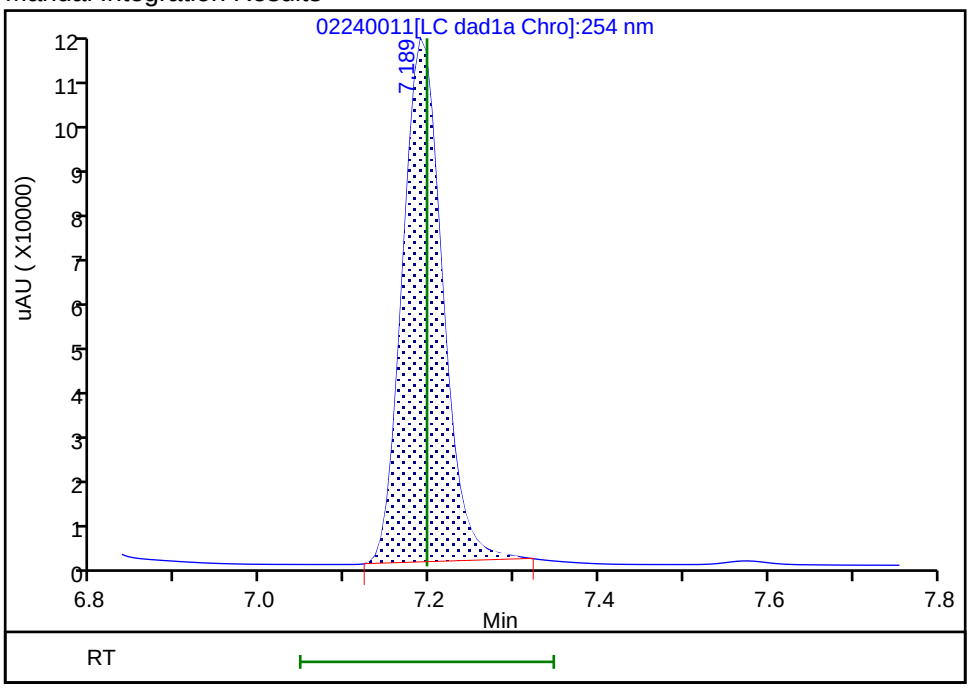
Processing Integration Results

RT: 7.19
Area: 413424
Amount: 2.917500
Amount Units: ug/mL



Manual Integration Results

RT: 7.19
Area: 385772
Amount: 2.940973
Amount Units: ug/mL



Reviewer: LV5D, 24-Feb-2023 16:41:14
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240012.D
Lims ID: IC DMT 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 24-Feb-2023 15:23:08 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC DMT 7
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub17

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 28-Feb-2023 13:17:26 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1602

First Level Reviewer: LV5D Date: 24-Feb-2023 16:07:37

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.439	6.443	-0.004	204073	1.00	1.03	M
6 DNX	1	6.759	6.770	-0.011	146436	1.00	1.01	M
7 MNX	1	7.192	7.196	-0.004	156478	1.17	1.19	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00013 Amount Added: 50.00 Units: uL

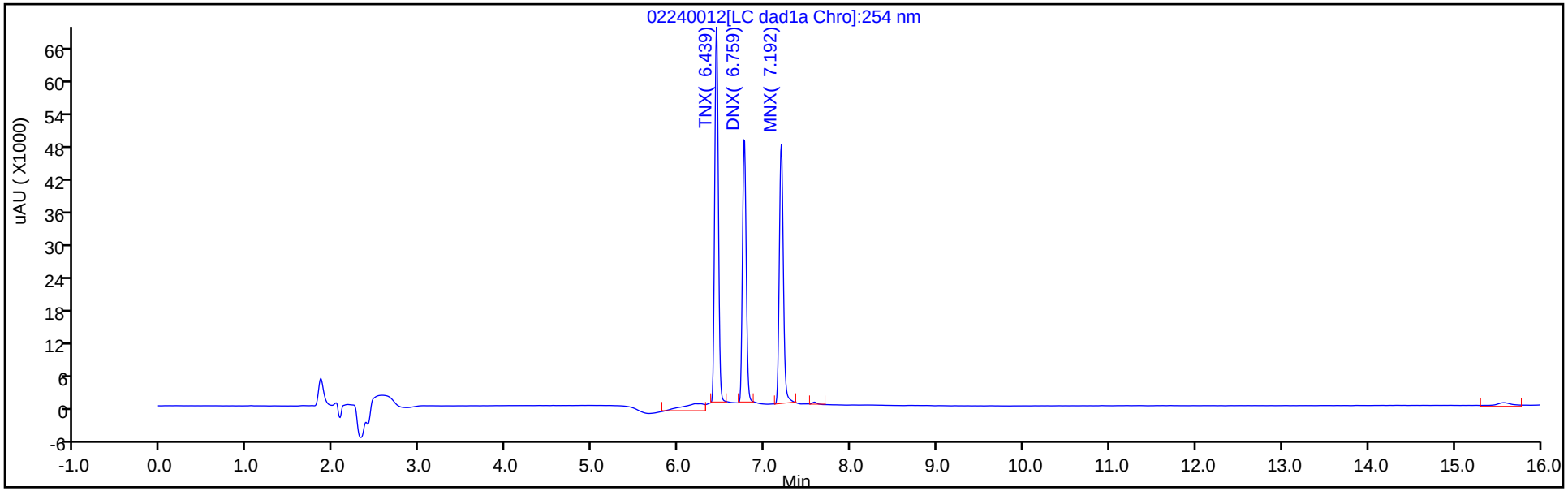
Report Date: 28-Feb-2023 13:17:26 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Denver

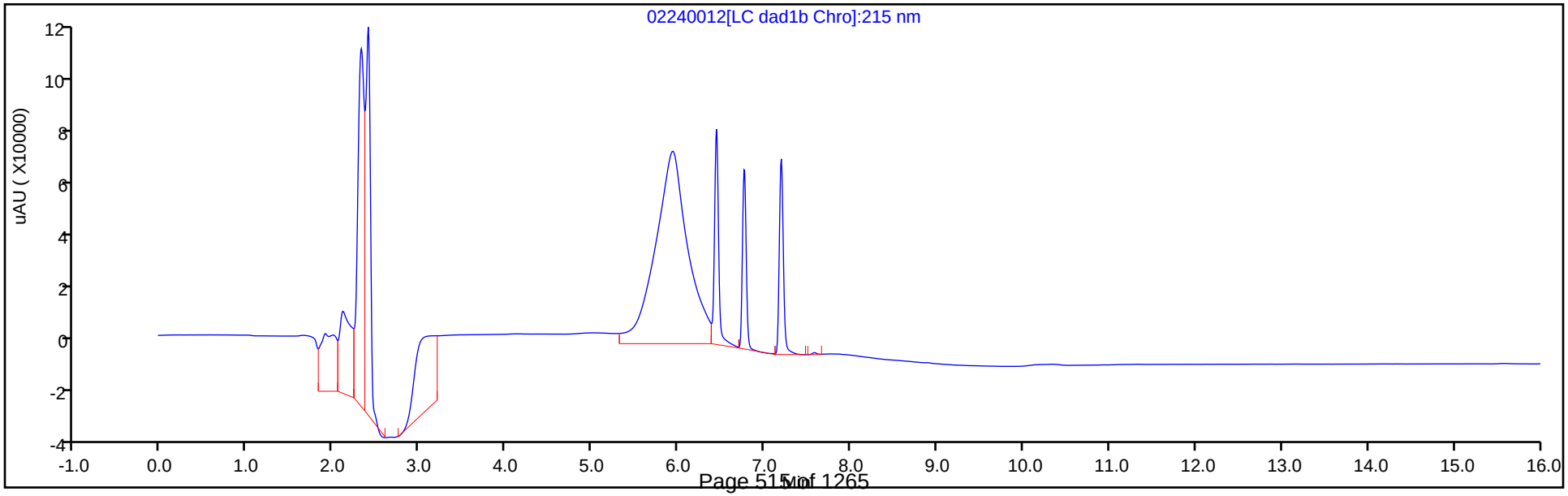
Data File: \\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240012.d

Injection Date:	24-Feb-2023 15:23:08	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC DMT 7			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



Eurofins Denver

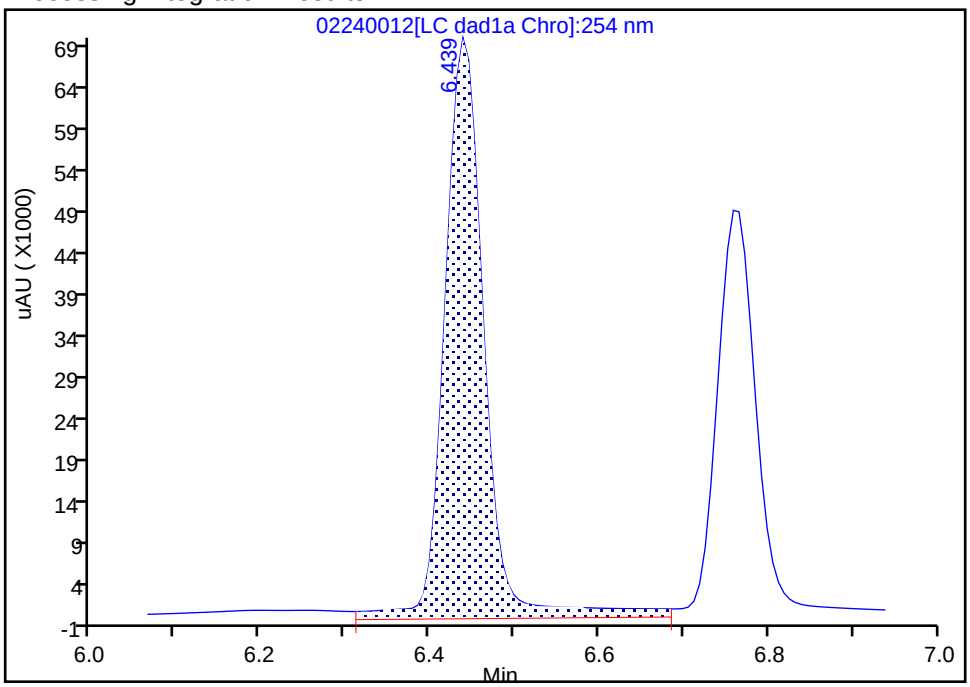
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240012.d				
Injection Date:	24-Feb-2023 15:23:08	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 7				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 TNX, CAS: 13980-04-6

Signal: 1

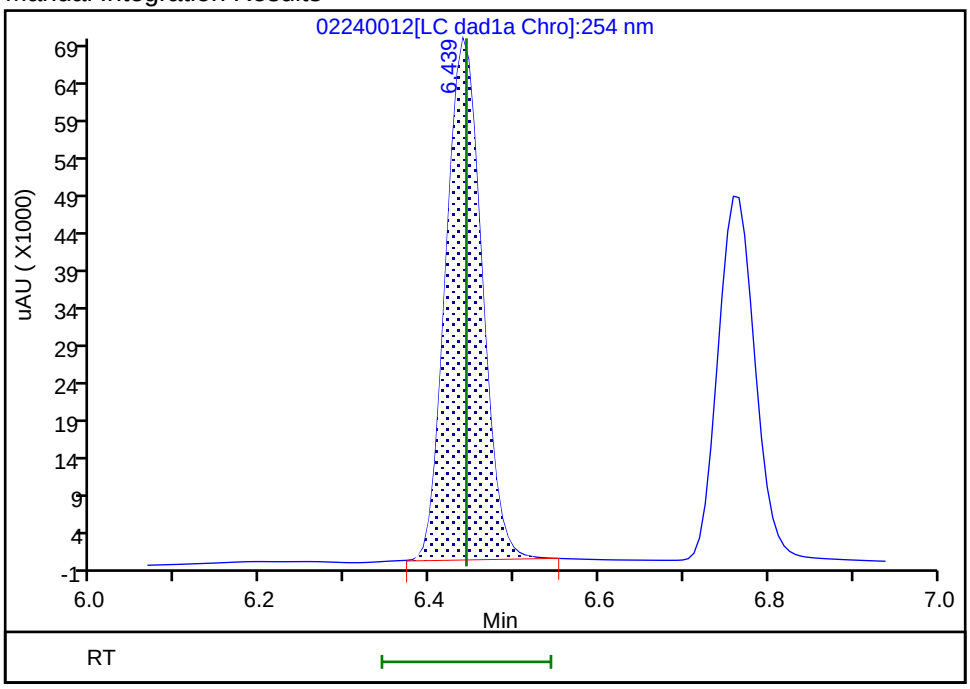
Processing Integration Results

RT: 6.44
Area: 232230
Amount: 1.069897
Amount Units: ug/mL



Manual Integration Results

RT: 6.44
Area: 204073
Amount: 1.032302
Amount Units: ug/mL



Reviewer: LV5D, 24-Feb-2023 16:41:30
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

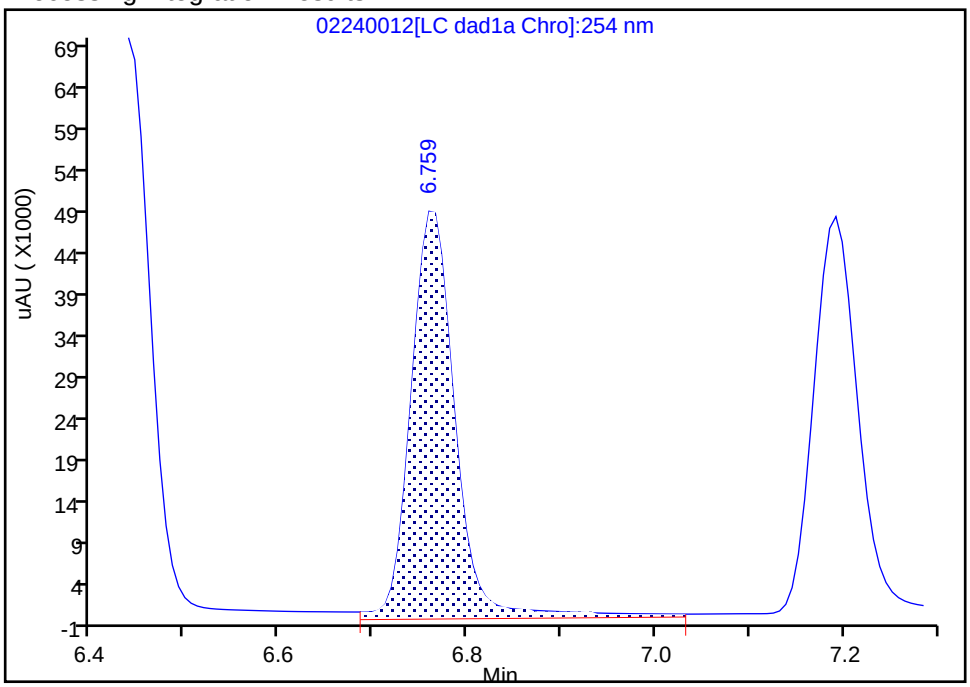
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240012.d				
Injection Date:	24-Feb-2023 15:23:08	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 7				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 DNX, CAS: 80251-29-2

Signal: 1

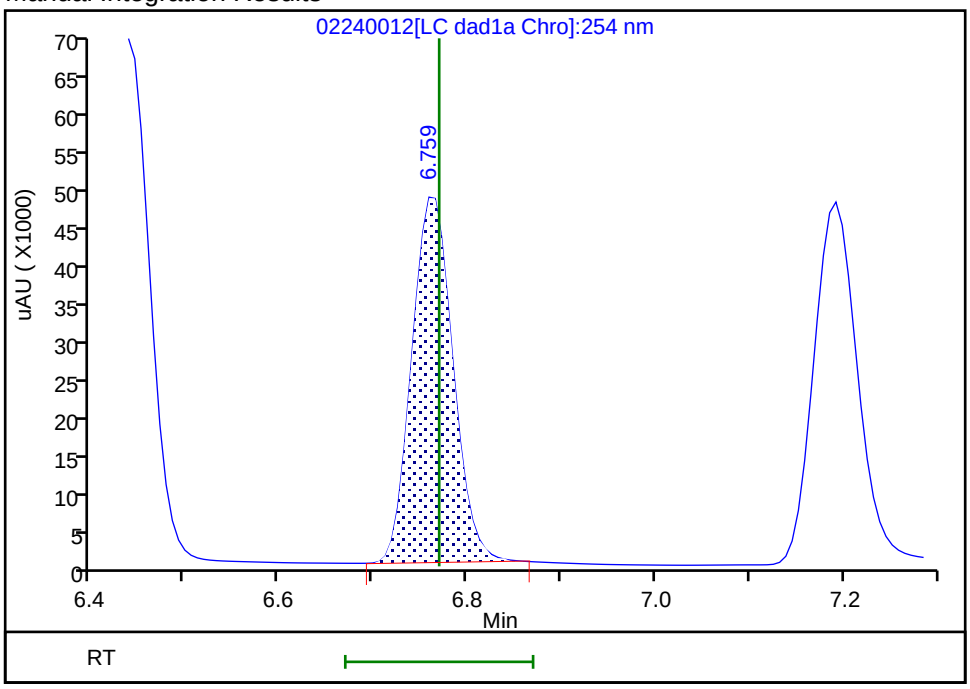
Processing Integration Results

RT: 6.76
Area: 164380
Amount: 1.059050
Amount Units: ug/mL



Manual Integration Results

RT: 6.76
Area: 146436
Amount: 1.013661
Amount Units: ug/mL



Reviewer: LV5D, 24-Feb-2023 16:41:34
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

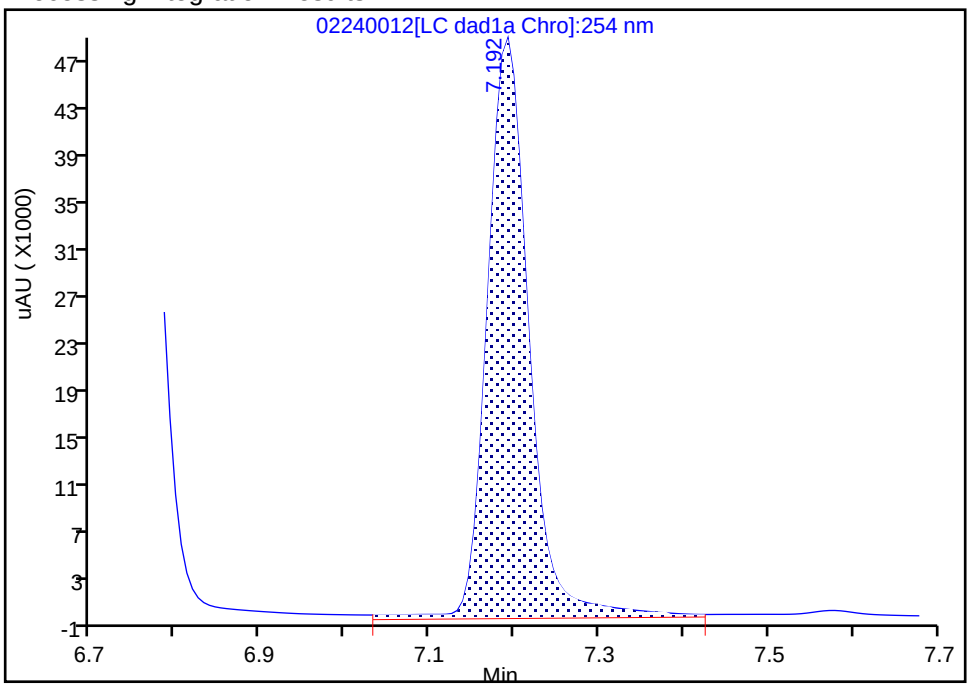
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240012.d				
Injection Date:	24-Feb-2023 15:23:08	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 7				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 MNX, CAS: 5755-27-1

Signal: 1

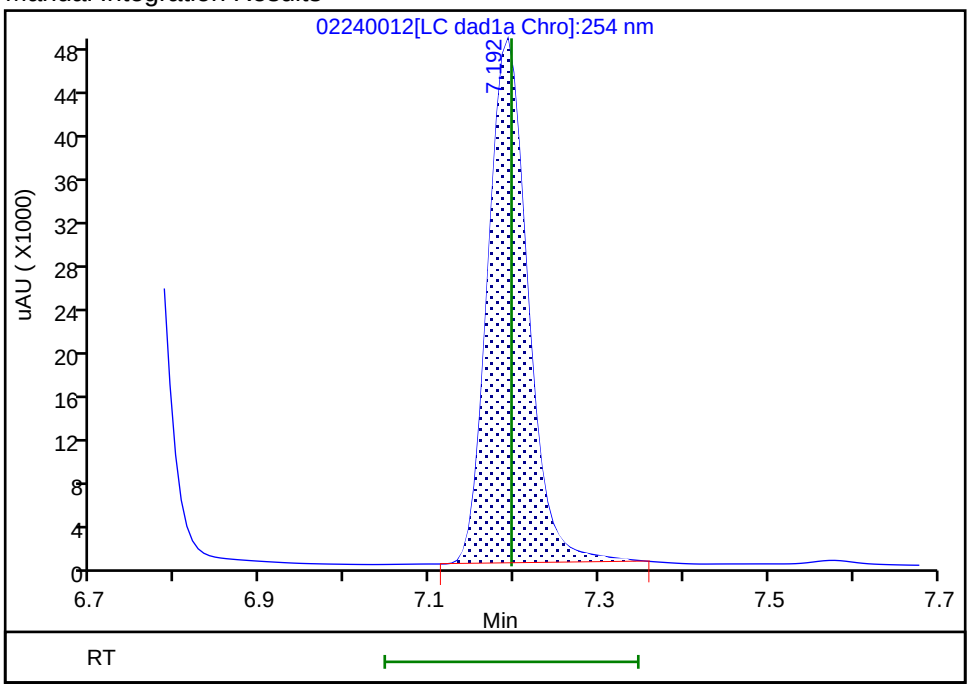
Processing Integration Results

RT: 7.19
Area: 166389
Amount: 1.221740
Amount Units: ug/mL



Manual Integration Results

RT: 7.19
Area: 156478
Amount: 1.192926
Amount Units: ug/mL



Reviewer: LV5D, 24-Feb-2023 16:41:38

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240013.D
Lims ID: IC DMT 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 24-Feb-2023 15:46:11 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC DMT 6
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub17

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 28-Feb-2023 13:17:27 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1602

First Level Reviewer: LV5D Date: 24-Feb-2023 16:40:45

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.441	6.443	-0.002	142294	0.7021	0.7198	M
6 DNX	1	6.767	6.770	-0.003	102987	0.7007	0.7129	M
7 MNX	1	7.194	7.196	-0.002	109131	0.8169	0.8320	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00013 Amount Added: 35.00 Units: uL

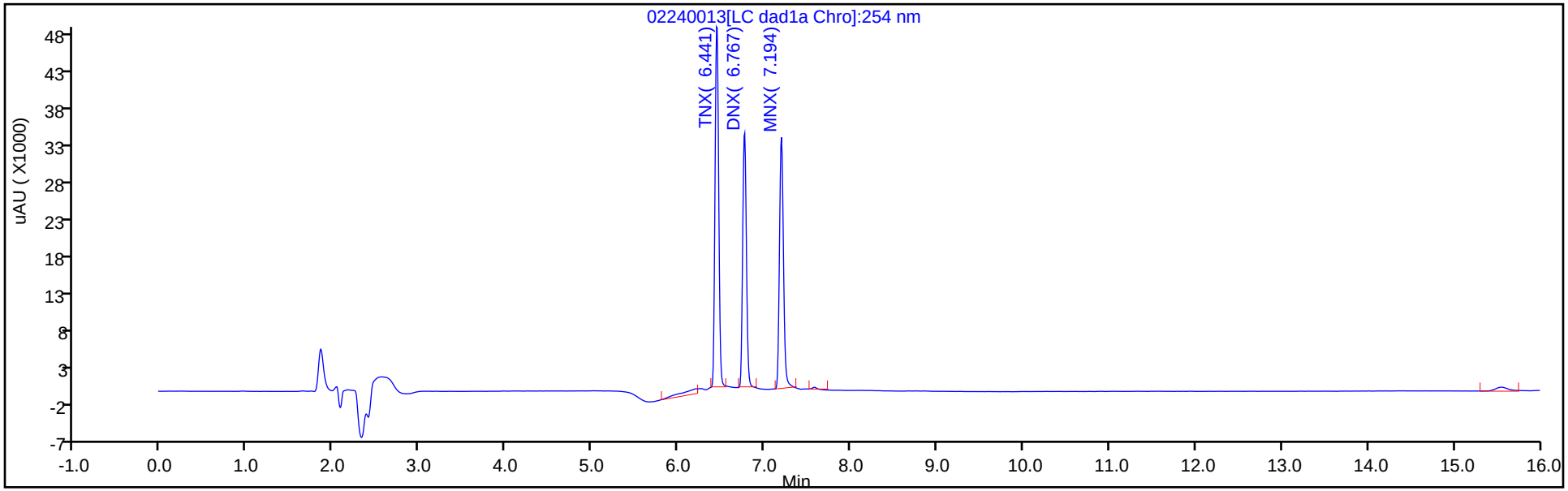
Report Date: 28-Feb-2023 13:17:27 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Denver

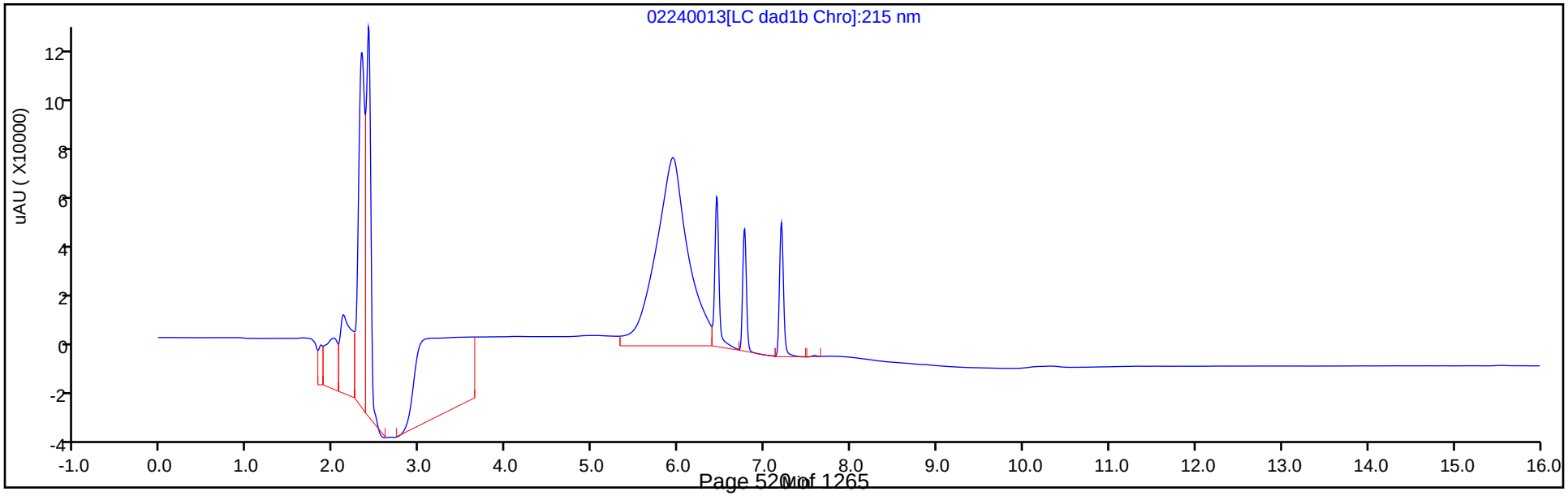
Data File: \\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240013.d

Injection Date:	24-Feb-2023 15:46:11	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC DMT 6			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



Eurofins Denver

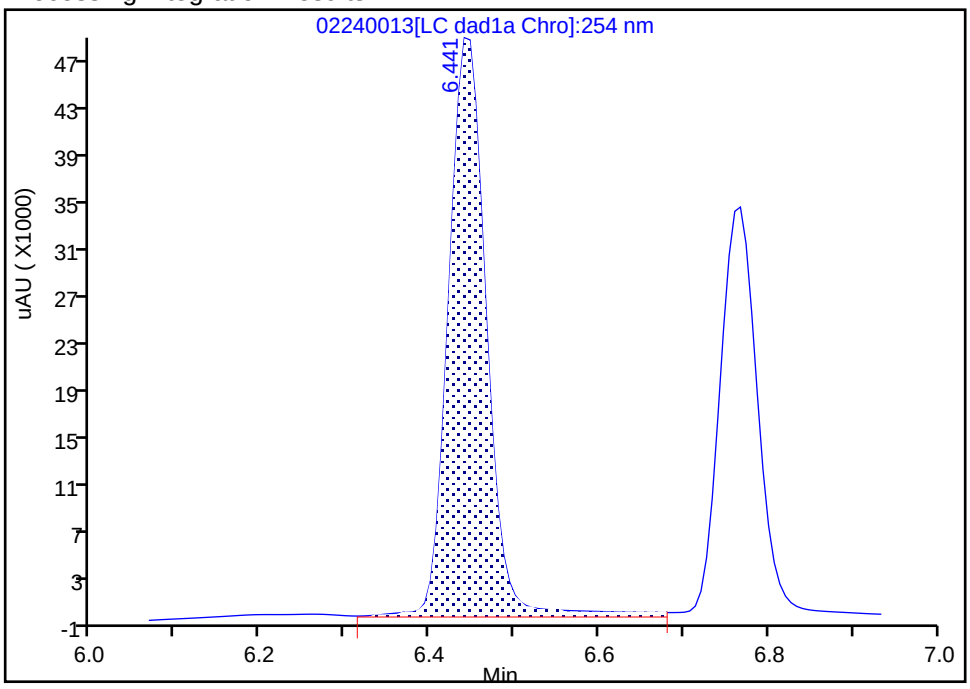
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240013.d				
Injection Date:	24-Feb-2023 15:46:11	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 6				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 TNX, CAS: 13980-04-6

Signal: 1

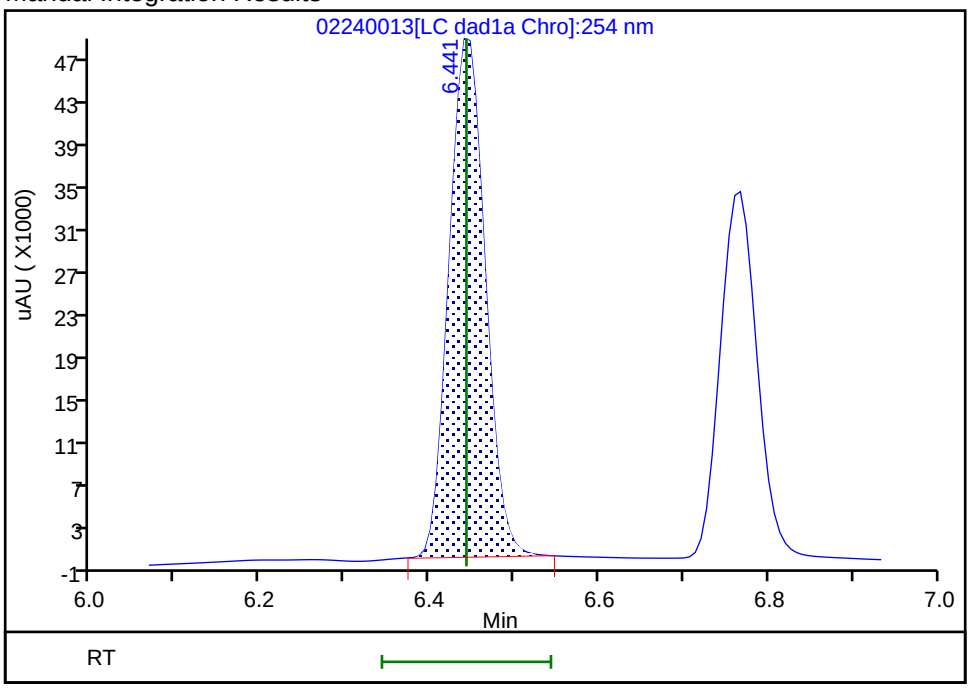
Processing Integration Results

RT: 6.44
Area: 149855
Amount: 0.731638
Amount Units: ug/mL



Manual Integration Results

RT: 6.44
Area: 142294
Amount: 0.719793
Amount Units: ug/mL



Reviewer: LV5D, 24-Feb-2023 16:41:49
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

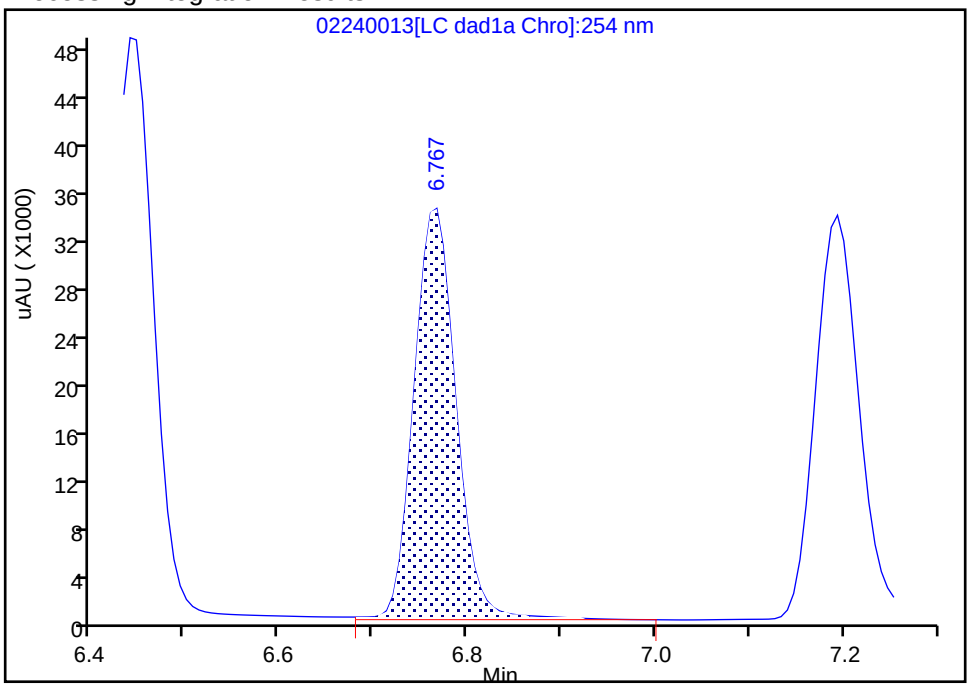
Data File: \\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240013.d
Injection Date: 24-Feb-2023 15:46:11 Instrument ID: CHHPLC_X3
Lims ID: IC DMT 6
Client ID:
Operator ID: JZ/MAR ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

6 DNX, CAS: 80251-29-2

Signal: 1

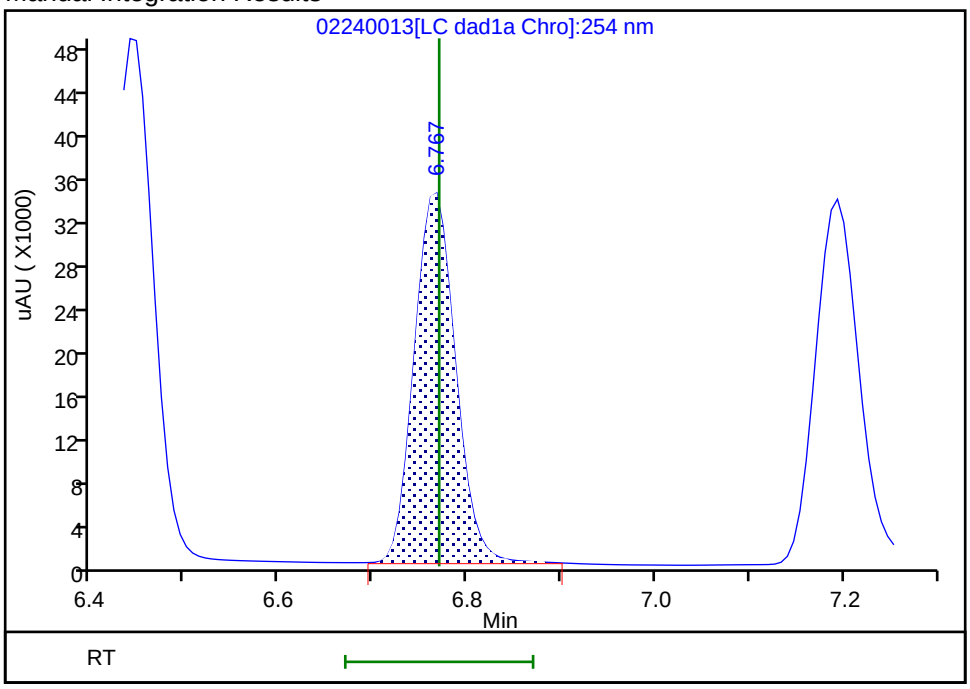
Processing Integration Results

RT: 6.77
Area: 106819
Amount: 0.729190
Amount Units: ug/mL



Manual Integration Results

RT: 6.77
Area: 102987
Amount: 0.712898
Amount Units: ug/mL



Reviewer: LV5D, 24-Feb-2023 16:41:44
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

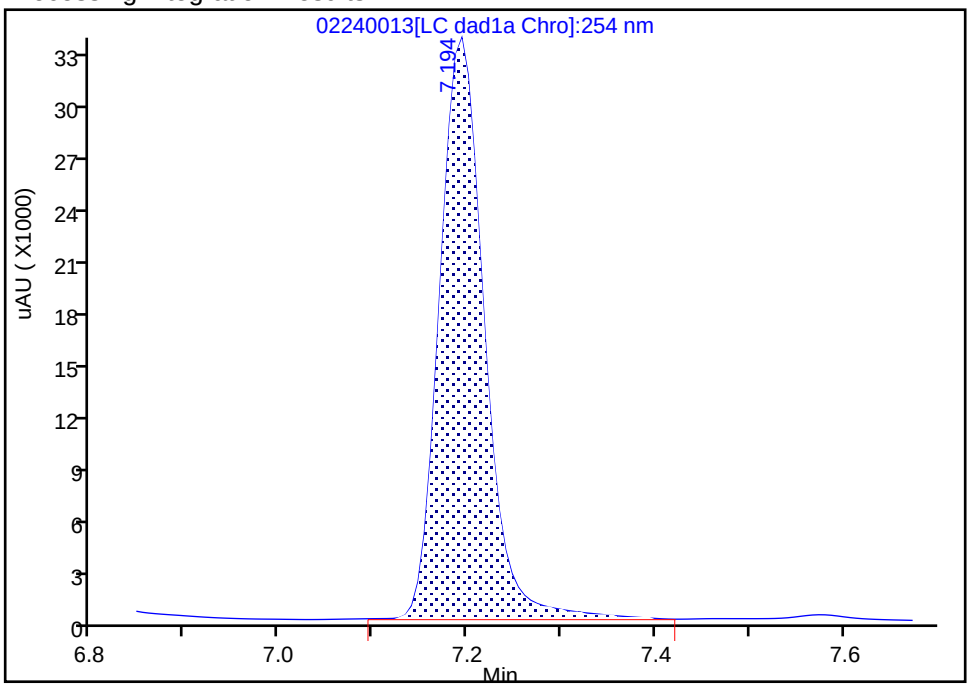
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240013.d				
Injection Date:	24-Feb-2023 15:46:11	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 6				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 MNX, CAS: 5755-27-1

Signal: 1

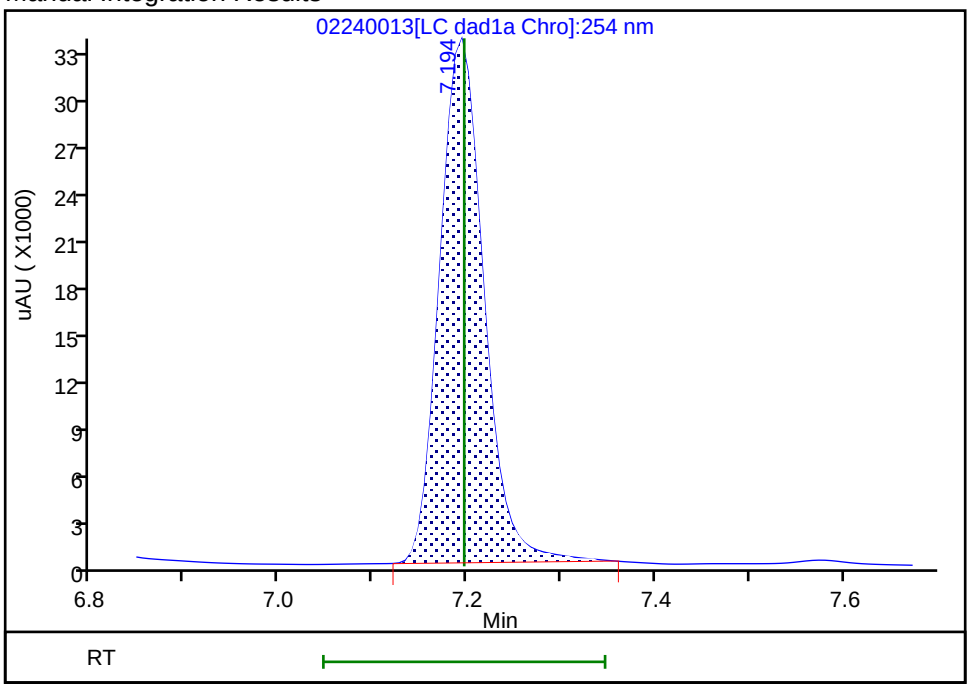
Processing Integration Results

RT: 7.19
Area: 110998
Amount: 0.844687
Amount Units: ug/mL



Manual Integration Results

RT: 7.19
Area: 109131
Amount: 0.831971
Amount Units: ug/mL



Reviewer: LV5D, 24-Feb-2023 16:41:46

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240014.D
Lims ID: IC DMT 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 24-Feb-2023 16:09:13 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC DMT 5
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub17

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 28-Feb-2023 13:17:27 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1602

First Level Reviewer: LV5D Date: 24-Feb-2023 16:41:09

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.442	6.443	-0.001	77150	0.4012	0.3903	M
6 DNX	1	6.769	6.770	-0.001	55525	0.4004	0.3844	M
7 MNX	1	7.195	7.196	-0.001	58415	0.4668	0.4453	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00013 Amount Added: 20.00 Units: uL

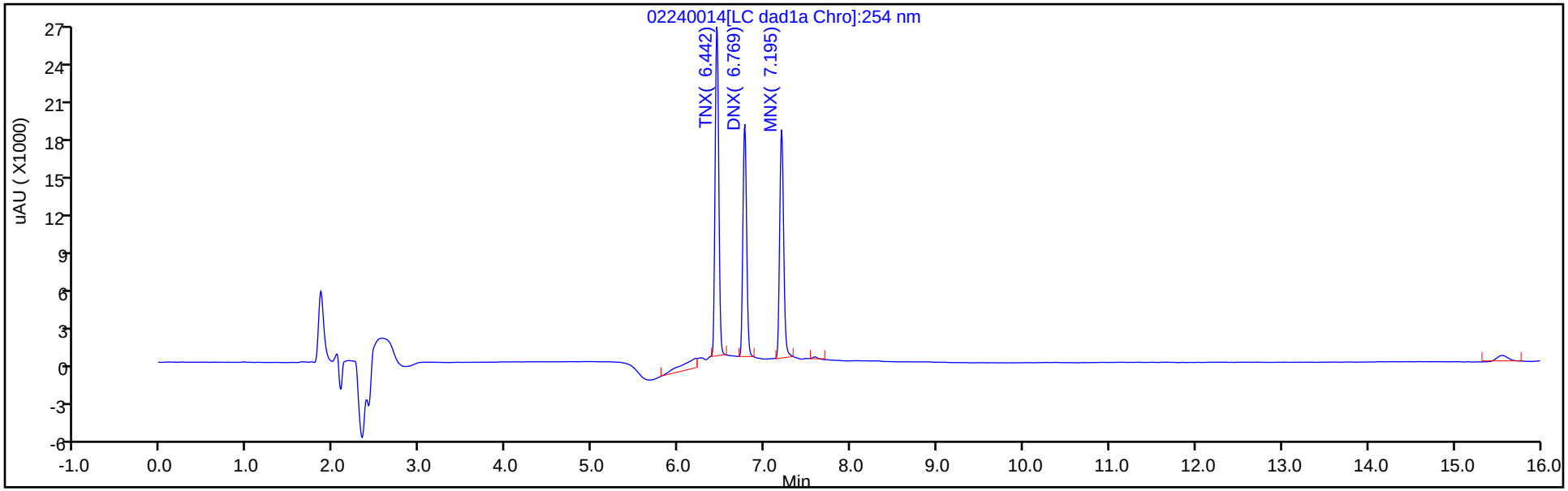
Report Date: 28-Feb-2023 13:17:27 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Denver

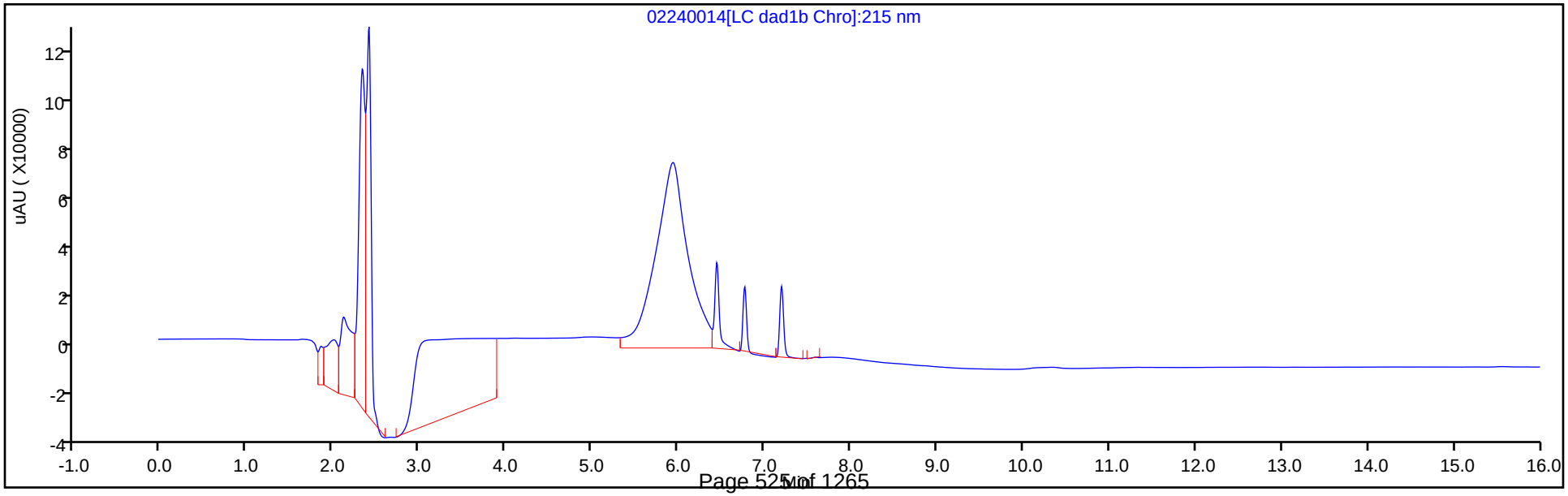
Data File: \\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240014.d

Injection Date:	24-Feb-2023 16:09:13	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC DMT 5			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



Manual Integration/User Assign Peak Report

Eurofins Denver

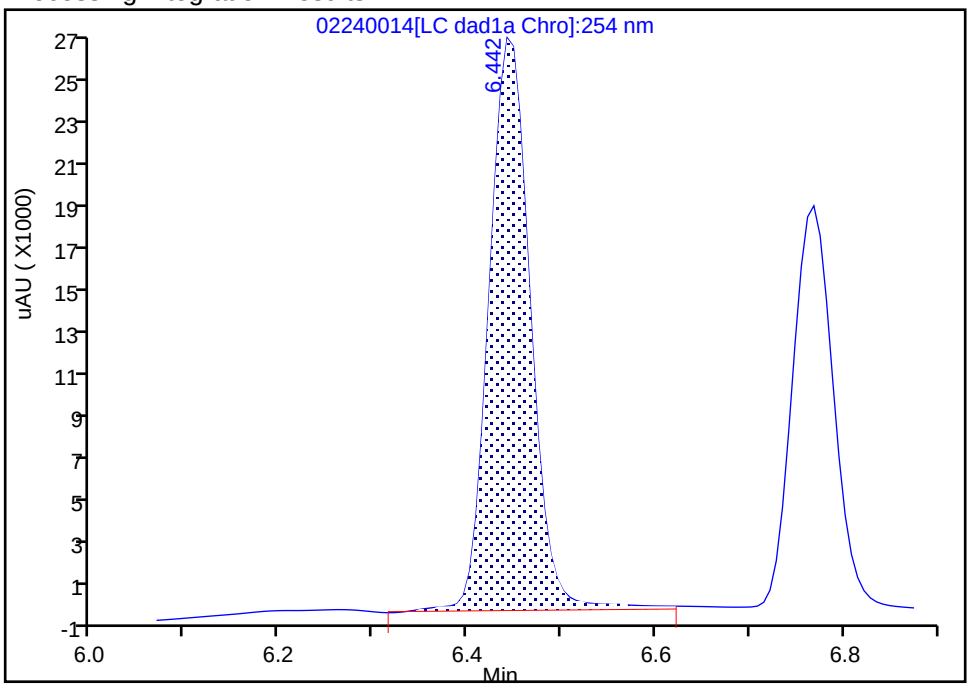
Data File: \\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240014.d
Injection Date: 24-Feb-2023 16:09:13 Instrument ID: CHHPLC_X3
Lims ID: IC DMT 5
Client ID:
Operator ID: JZ/MAR ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

3 TNX, CAS: 13980-04-6

Signal: 1

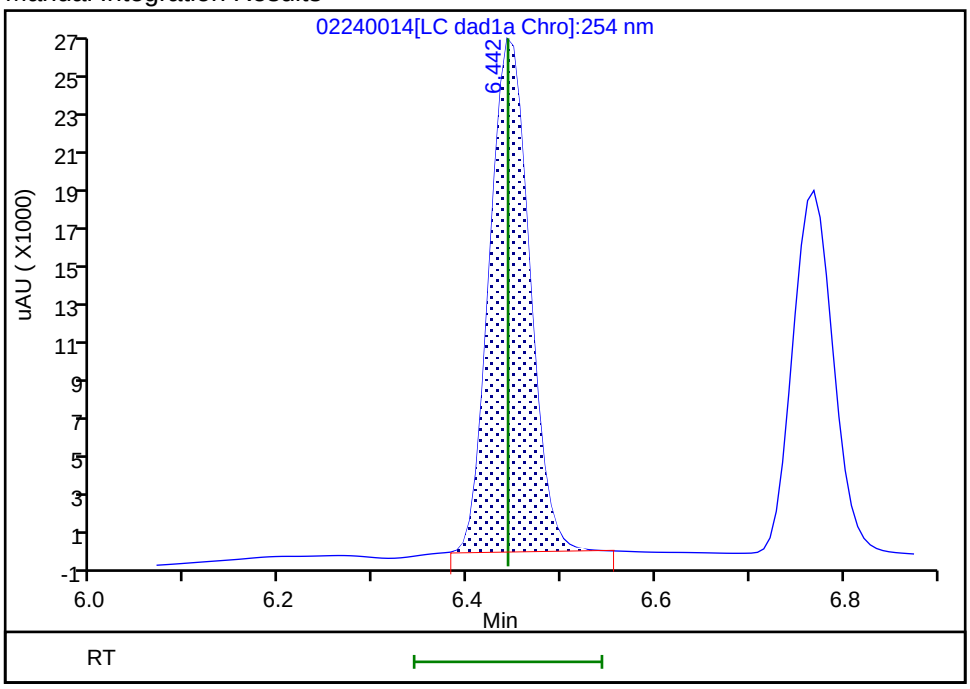
Processing Integration Results

RT: 6.44
Area: 81283
Amount: 0.403064
Amount Units: ug/mL



Manual Integration Results

RT: 6.44
Area: 77150
Amount: 0.390263
Amount Units: ug/mL



Reviewer: LV5D, 24-Feb-2023 16:41:55
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

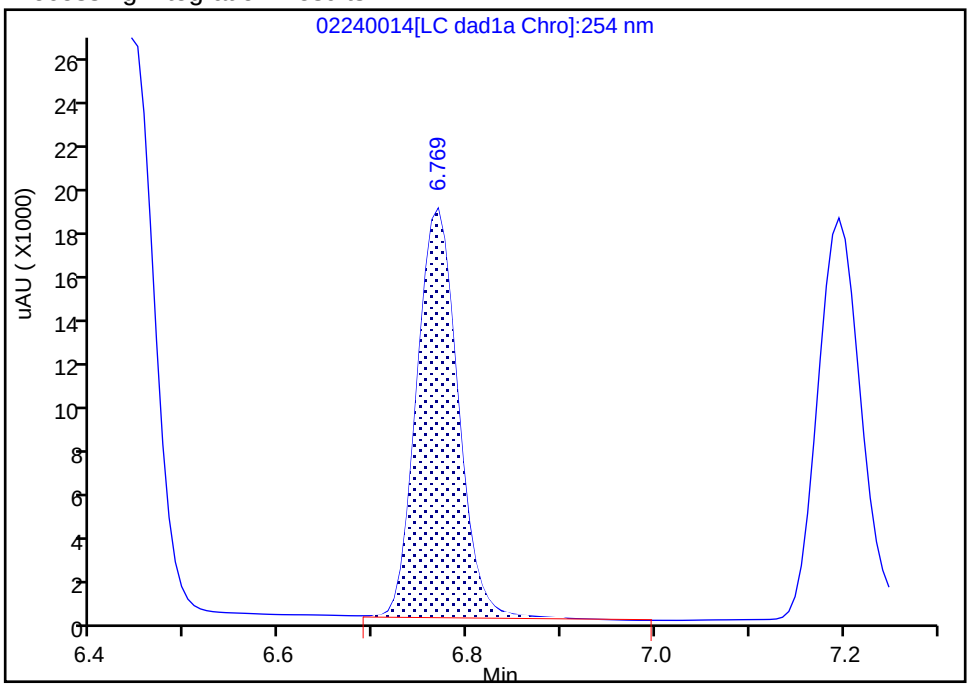
Data File: \\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240014.d
Injection Date: 24-Feb-2023 16:09:13 Instrument ID: CHHPLC_X3
Lims ID: IC DMT 5
Client ID:
Operator ID: JZ/MAR ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

6 DNX, CAS: 80251-29-2

Signal: 1

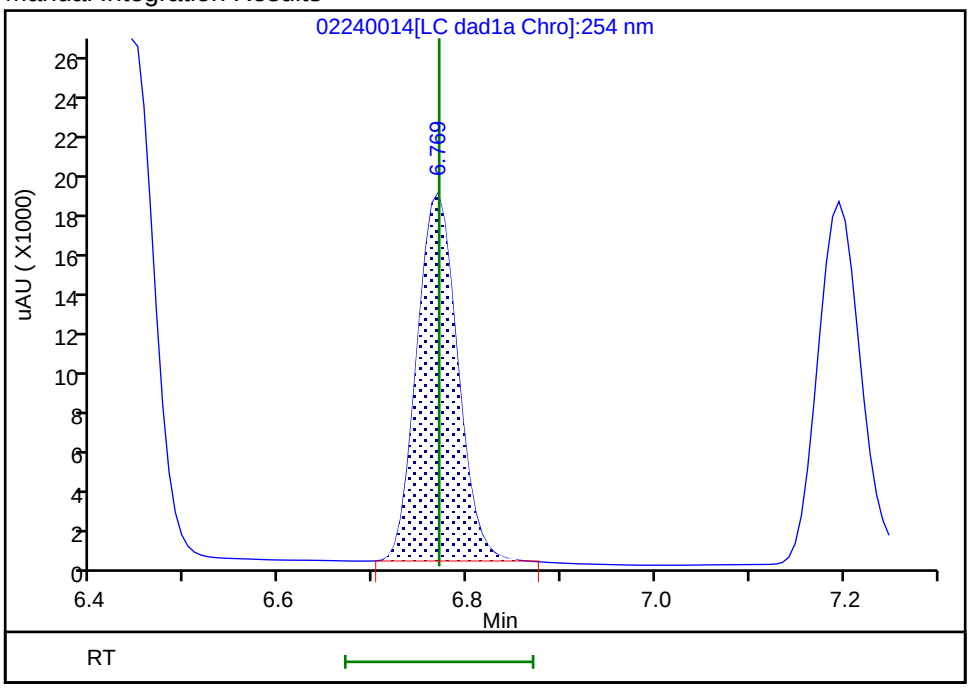
Processing Integration Results

RT: 6.77
Area: 57199
Amount: 0.395371
Amount Units: ug/mL



Manual Integration Results

RT: 6.77
Area: 55525
Amount: 0.384356
Amount Units: ug/mL



Reviewer: LV5D, 24-Feb-2023 16:41:57
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

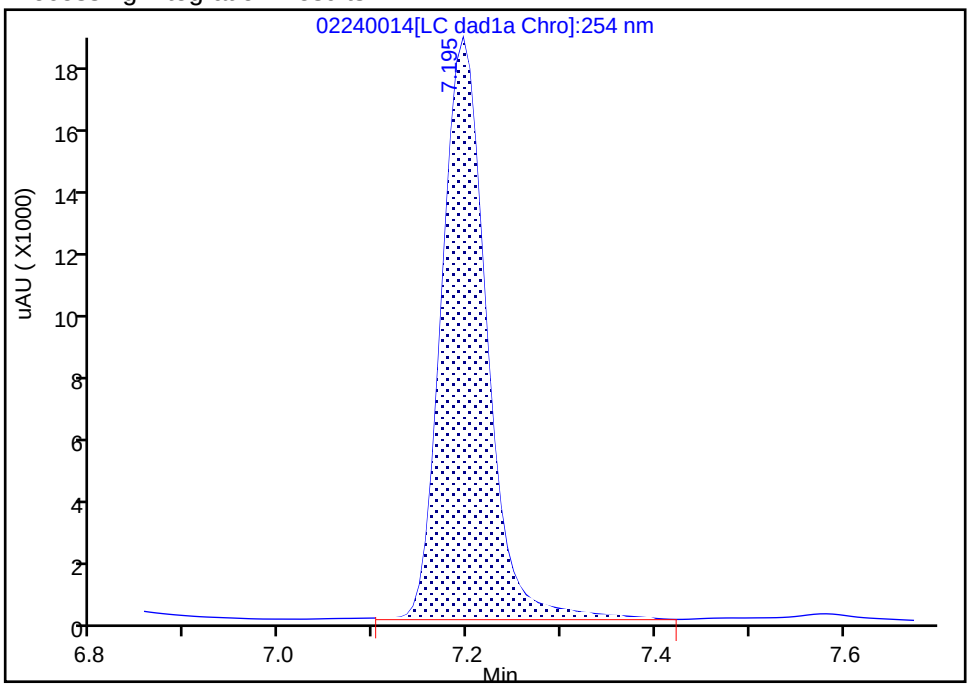
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240014.d				
Injection Date:	24-Feb-2023 16:09:13	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 5				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 MNX, CAS: 5755-27-1

Signal: 1

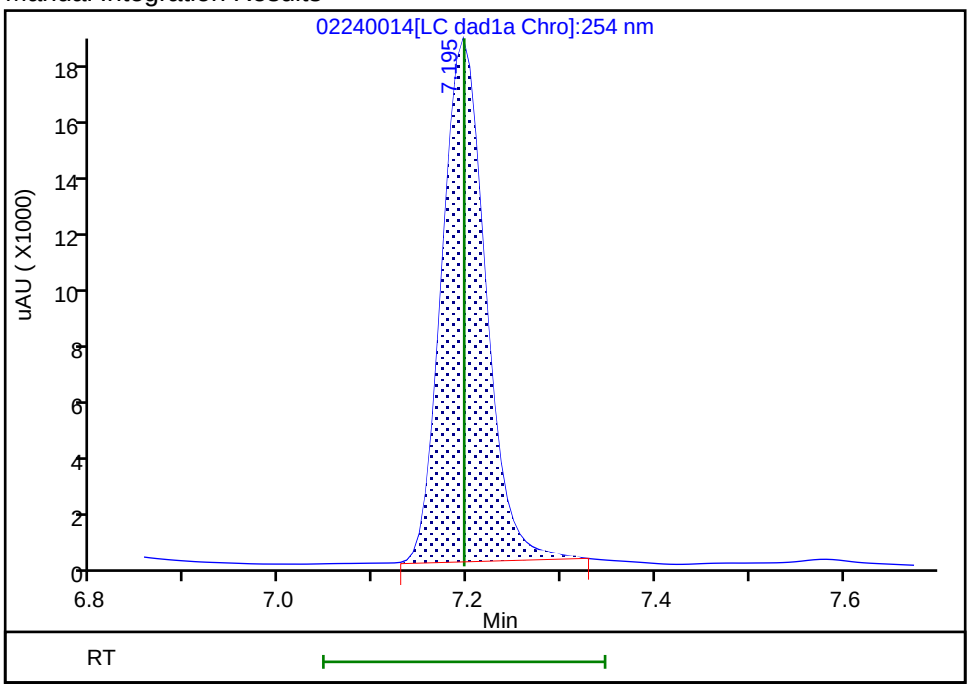
Processing Integration Results

RT: 7.20
Area: 60440
Amount: 0.462241
Amount Units: ug/mL



Manual Integration Results

RT: 7.20
Area: 58415
Amount: 0.445333
Amount Units: ug/mL



Reviewer: LV5D, 24-Feb-2023 16:40:59

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240015.D
Lims ID: IC DMT 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 24-Feb-2023 16:32:12 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC DMT 4
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub17

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 28-Feb-2023 13:17:28 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1602

First Level Reviewer: LV5D Date: 24-Feb-2023 17:15:42

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.443	6.443	0.000	49343	0.2508	0.2496	M
6 DNX	1	6.770	6.770	0.000	36370	0.2503	0.2518	M
7 MNX	1	7.196	7.196	0.000	39278	0.2918	0.2994	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00013 Amount Added: 12.50 Units: uL

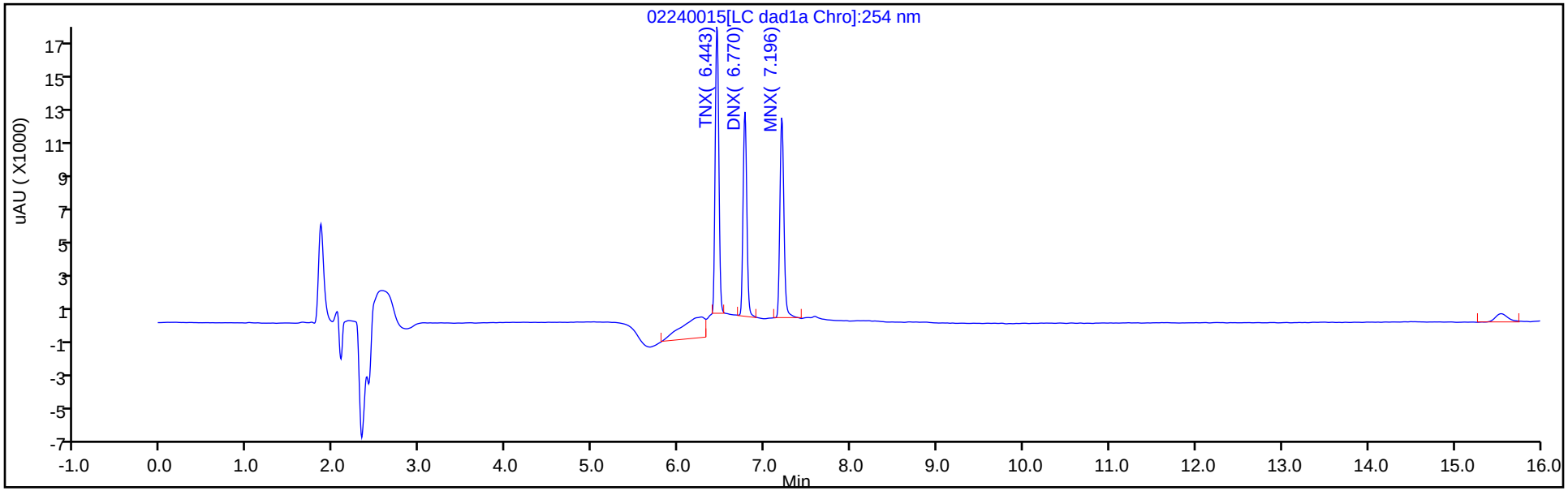
Report Date: 28-Feb-2023 13:17:28 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Denver

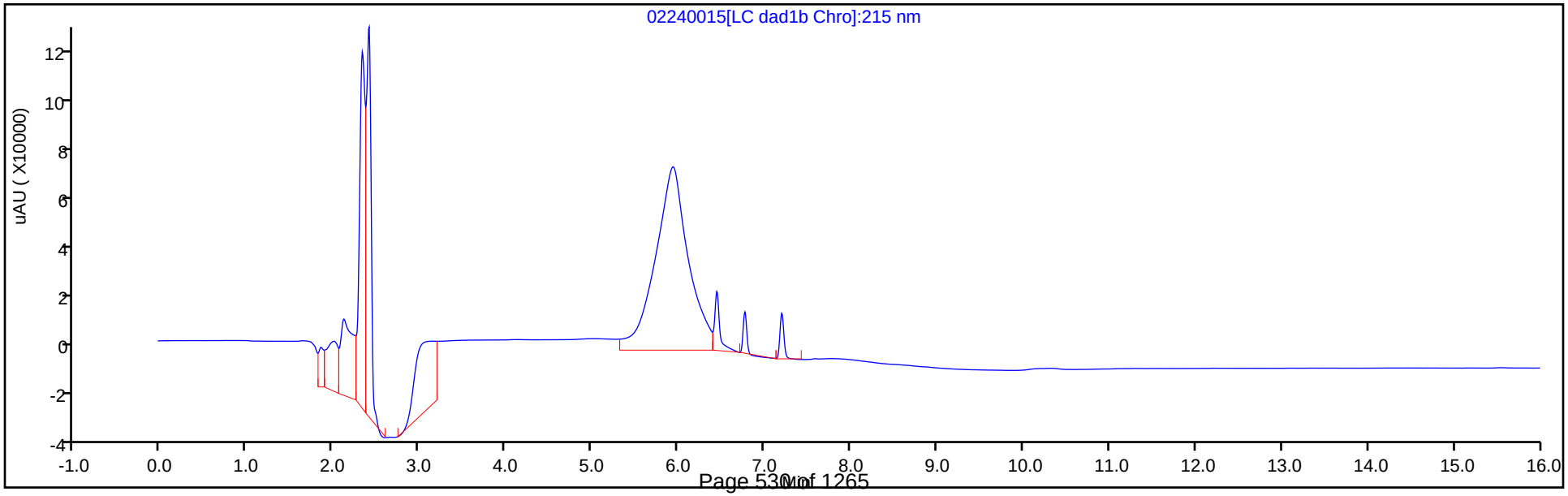
Data File: \\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240015.d

Injection Date:	24-Feb-2023 16:32:12	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC DMT 4			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



Eurofins Denver

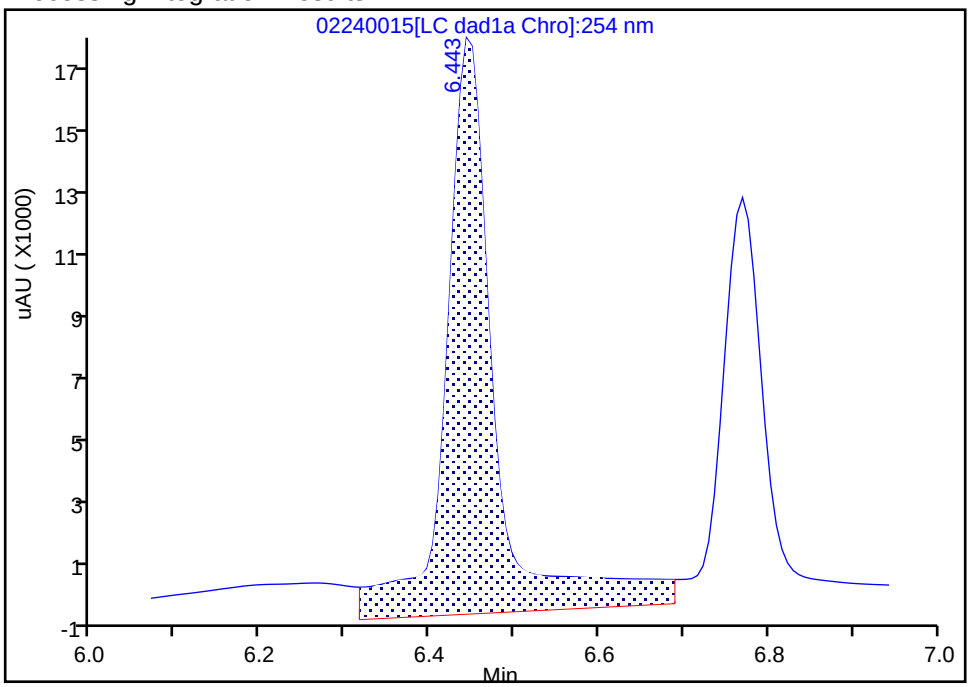
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240015.d				
Injection Date:	24-Feb-2023 16:32:12	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 4				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 TNX, CAS: 13980-04-6

Signal: 1

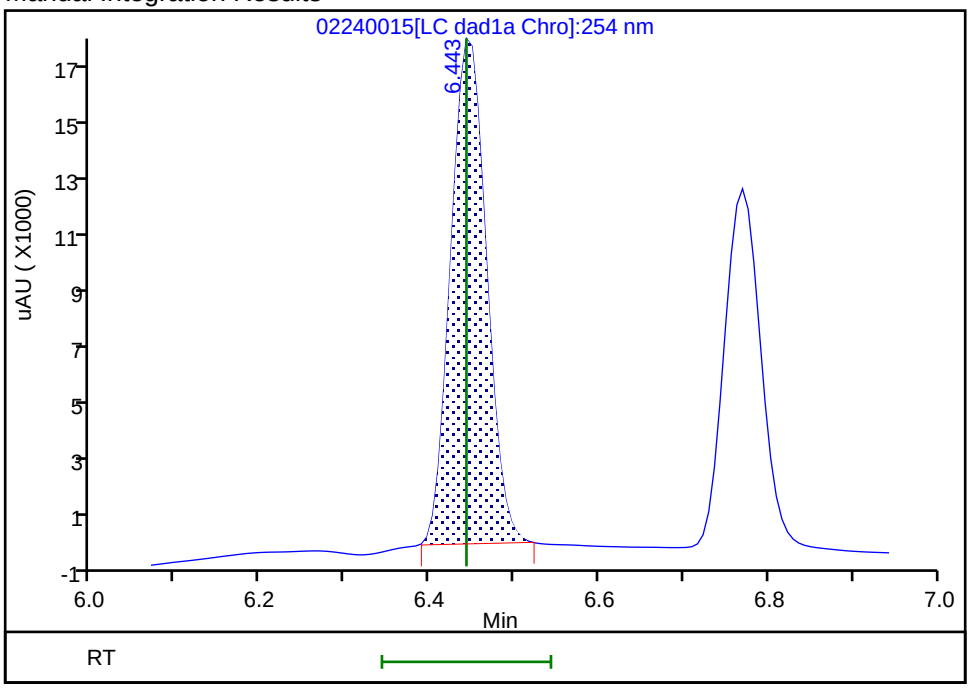
Processing Integration Results

RT: 6.44
Area: 73619
Amount: 0.336113
Amount Units: ug/mL



Manual Integration Results

RT: 6.44
Area: 49343
Amount: 0.249601
Amount Units: ug/mL



Reviewer: LV5D, 24-Feb-2023 17:15:24
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

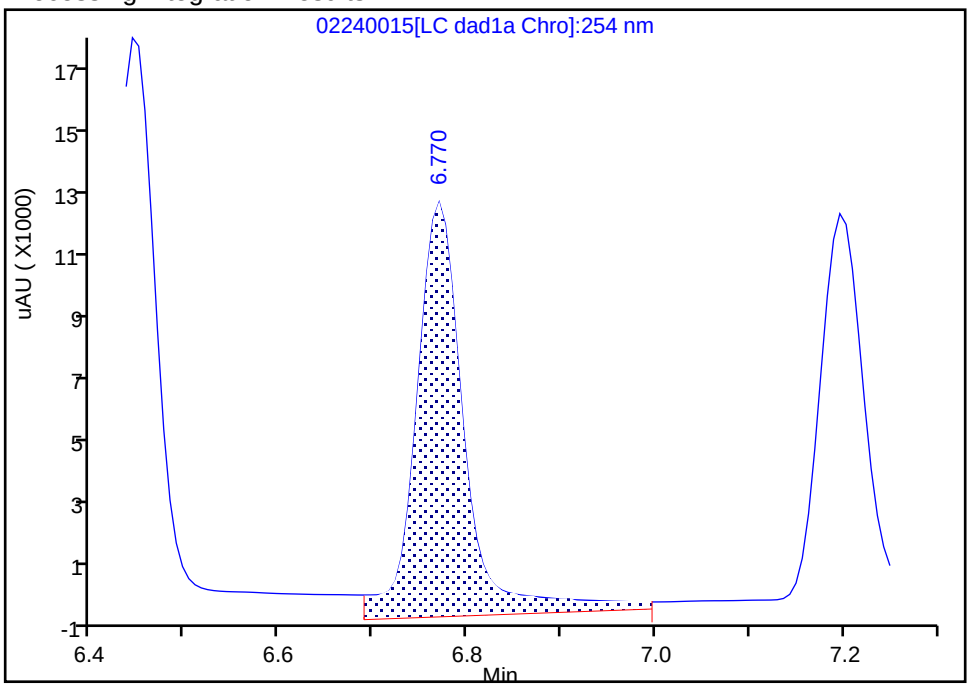
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240015.d				
Injection Date:	24-Feb-2023 16:32:12	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 4				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 DNX, CAS: 80251-29-2

Signal: 1

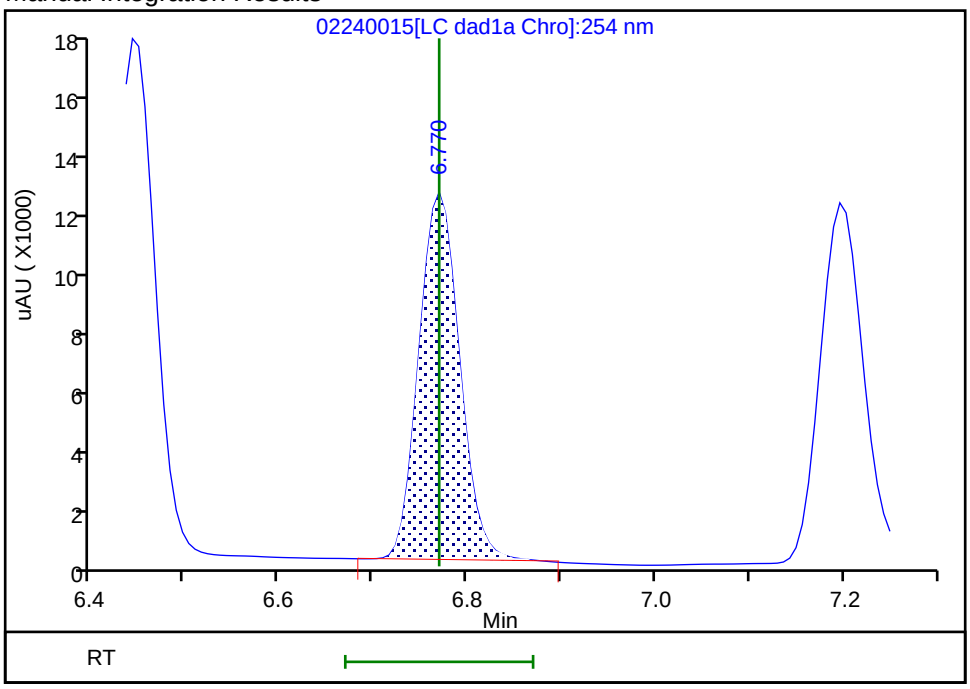
Processing Integration Results

RT: 6.77
Area: 45251
Amount: 0.297994
Amount Units: ug/mL



Manual Integration Results

RT: 6.77
Area: 36370
Amount: 0.251761
Amount Units: ug/mL



Reviewer: LV5D, 24-Feb-2023 17:15:28
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240016.D
Lims ID: IC DMT 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 24-Feb-2023 16:55:16 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC DMT 3
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub17

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 28-Feb-2023 13:17:28 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1602

First Level Reviewer: LV5D Date: 24-Feb-2023 17:30:15

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.446	6.443	0.003	19892	0.1003	0.1006	M
6 DNX	1	6.766	6.770	-0.004	14570	0.1001	0.1009	M
7 MNX	1	7.199	7.196	0.003	15358	0.1167	0.1171	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00013 Amount Added: 5.00 Units: uL

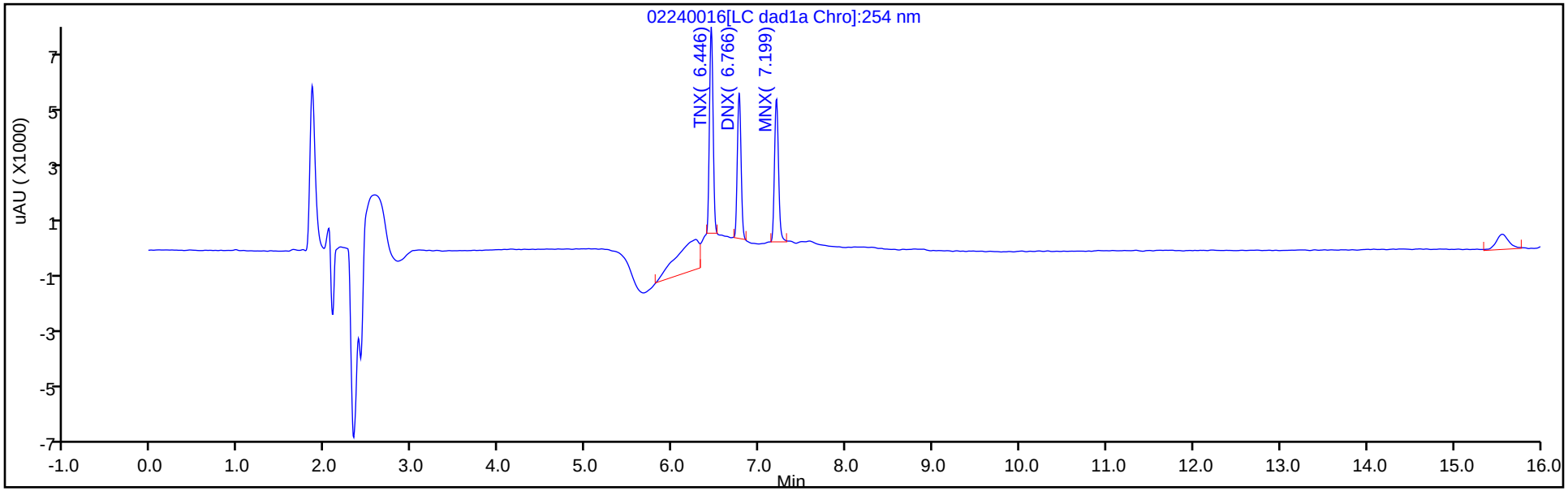
Report Date: 28-Feb-2023 13:17:28 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Denver

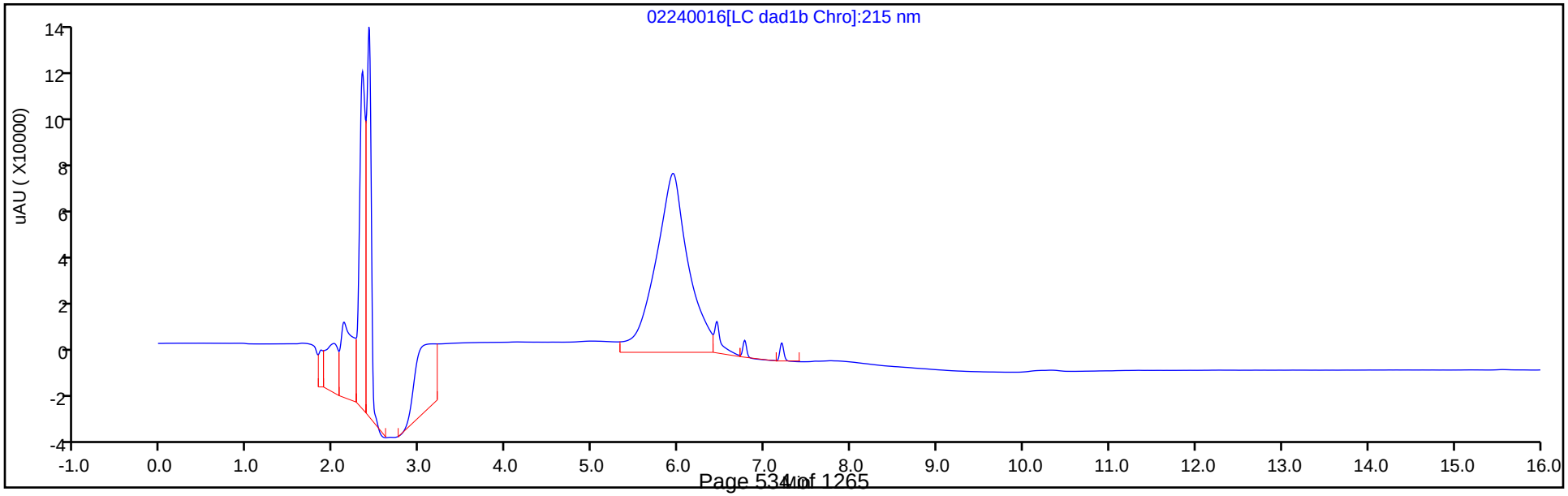
Data File: \\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240016.d

Injection Date:	24-Feb-2023 16:55:16	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC DMT 3			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



Manual Integration/User Assign Peak Report

Eurofins Denver

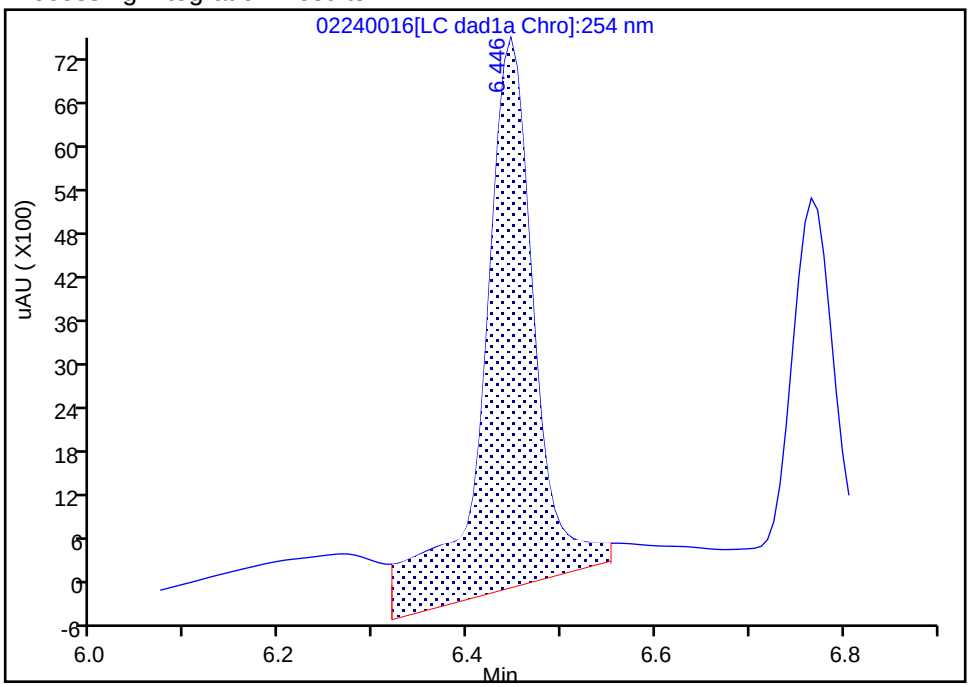
Data File: \\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240016.d
Injection Date: 24-Feb-2023 16:55:16 Instrument ID: CHHPLC_X3
Lims ID: IC DMT 3
Client ID:
Operator ID: JZ/MAR ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

3 TNX, CAS: 13980-04-6

Signal: 1

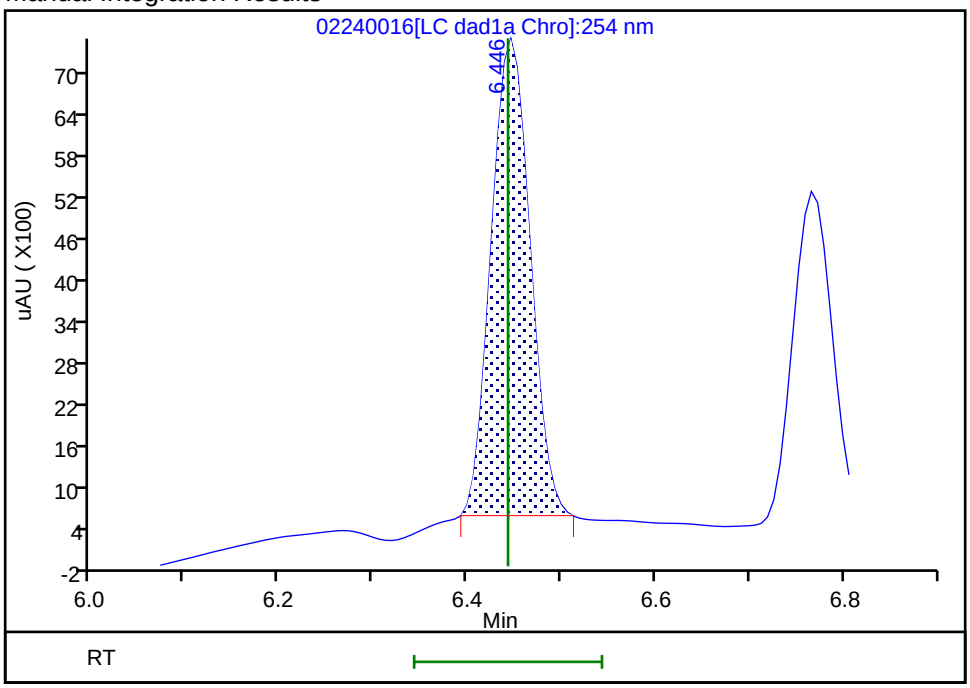
Processing Integration Results

RT: 6.45
Area: 29096
Amount: 0.135495
Amount Units: ug/mL



Manual Integration Results

RT: 6.45
Area: 19892
Amount: 0.100624
Amount Units: ug/mL



Reviewer: LV5D, 24-Feb-2023 17:30:03
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

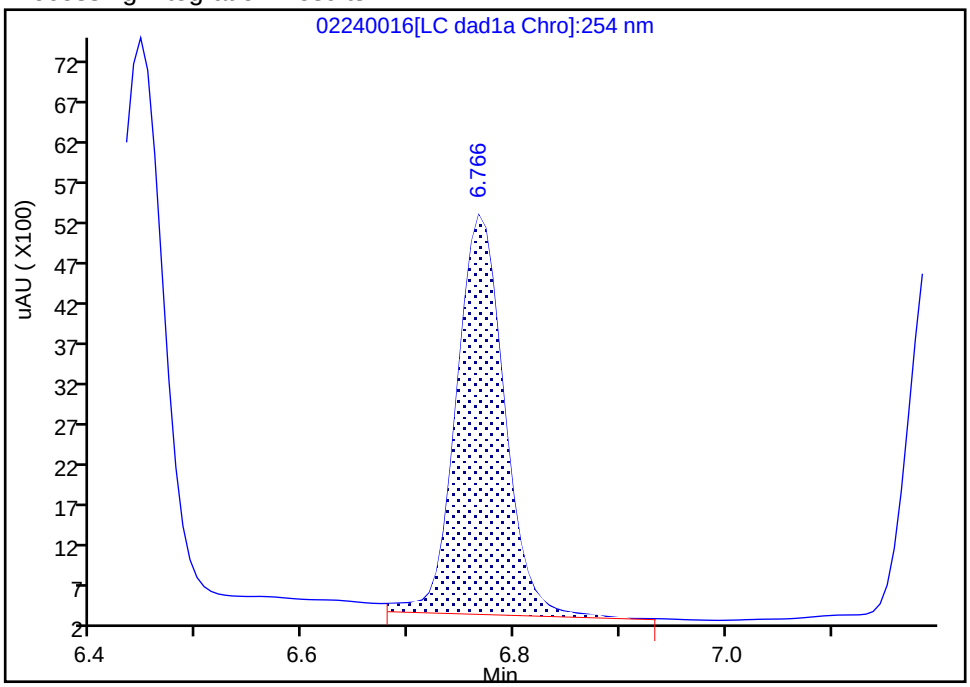
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240016.d				
Injection Date:	24-Feb-2023 16:55:16	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 3				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 DNX, CAS: 80251-29-2

Signal: 1

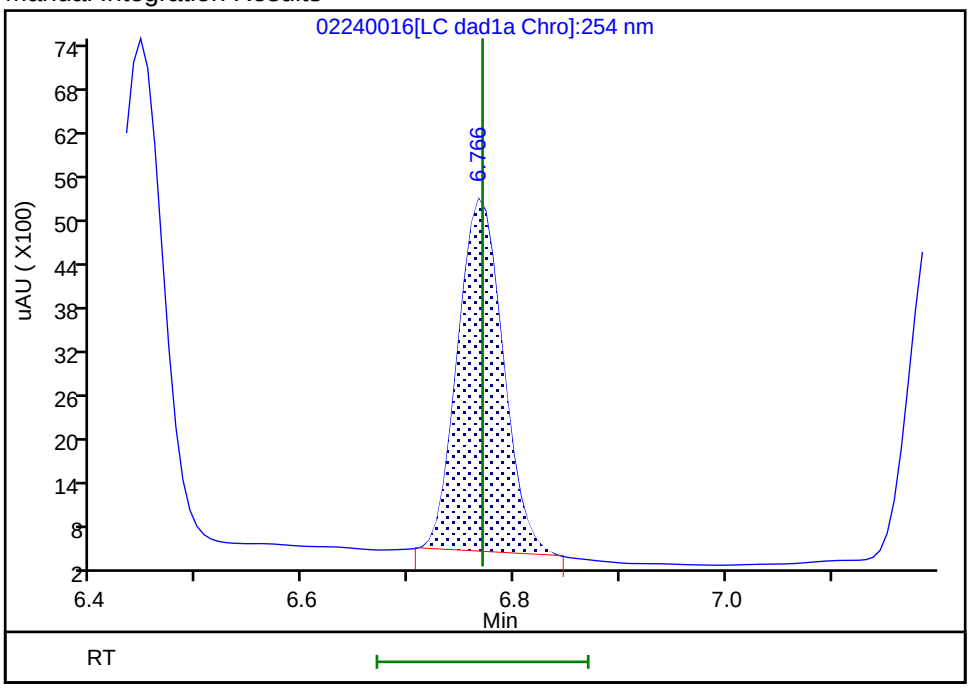
Processing Integration Results

RT: 6.77
Area: 15665
Amount: 0.106775
Amount Units: ug/mL



Manual Integration Results

RT: 6.77
Area: 14570
Amount: 0.100857
Amount Units: ug/mL



Reviewer: LV5D, 24-Feb-2023 17:30:07

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

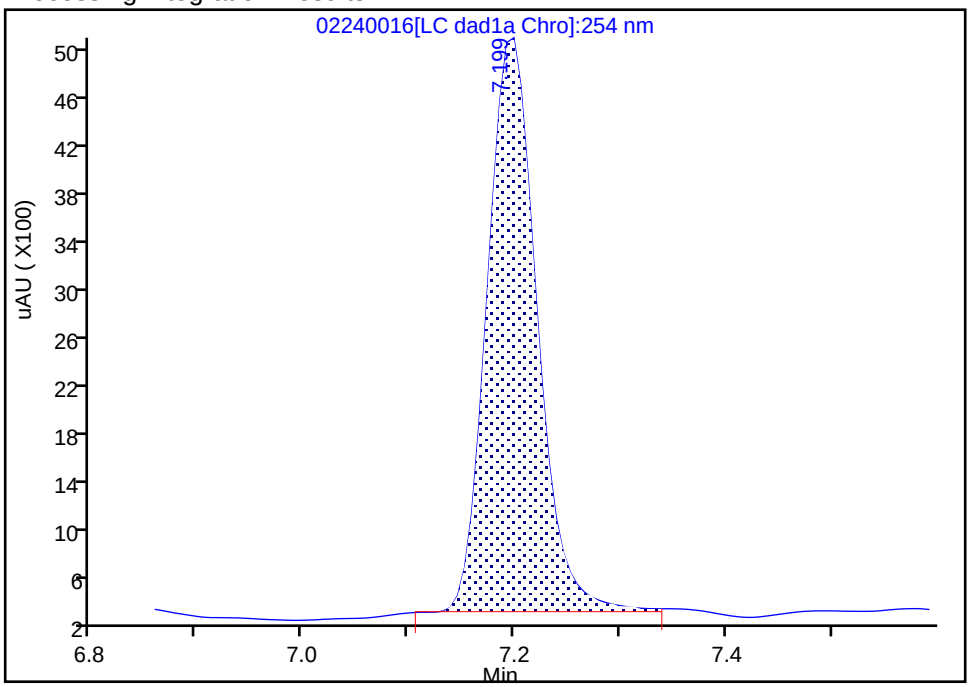
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240016.d				
Injection Date:	24-Feb-2023 16:55:16	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 3				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 MNX, CAS: 5755-27-1

Signal: 1

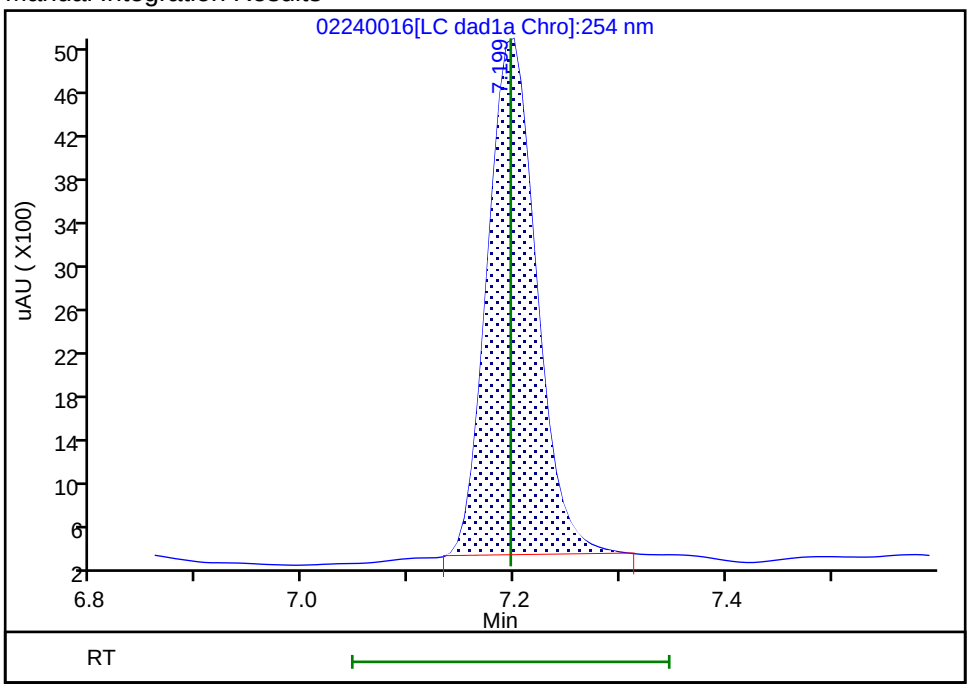
Processing Integration Results

RT: 7.20
Area: 15598
Amount: 0.117968
Amount Units: ug/mL



Manual Integration Results

RT: 7.20
Area: 15358
Amount: 0.117083
Amount Units: ug/mL



Reviewer: LV5D, 24-Feb-2023 17:30:11

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240017.D
Lims ID: IC DMT 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 24-Feb-2023 17:18:19 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC DMT 2
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub17

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 28-Feb-2023 13:17:29 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1602

First Level Reviewer: LV5D Date: 24-Feb-2023 17:51:38

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.448	6.443	0.005	9917	0.0502	0.0502	M
6 DNX	1	6.768	6.770	-0.002	7338	0.0501	0.0508	M
7 MNX	1	7.195	7.196	-0.001	7605	0.0584	0.0580	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00013 Amount Added: 2.50 Units: uL

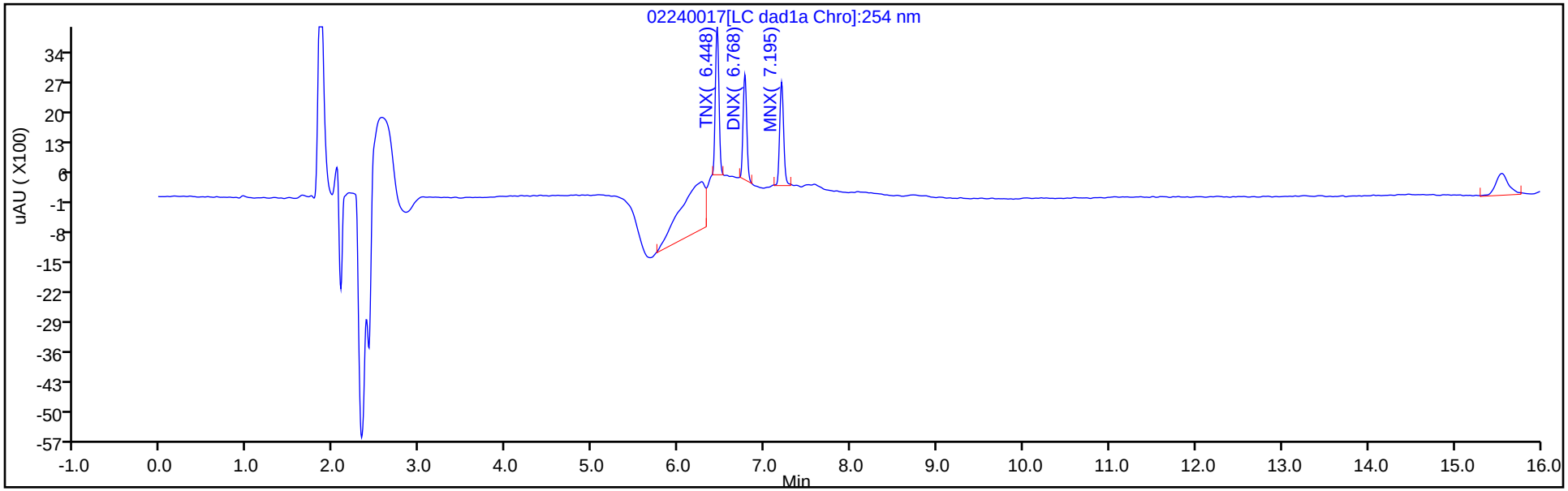
Report Date: 28-Feb-2023 13:17:29 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Denver

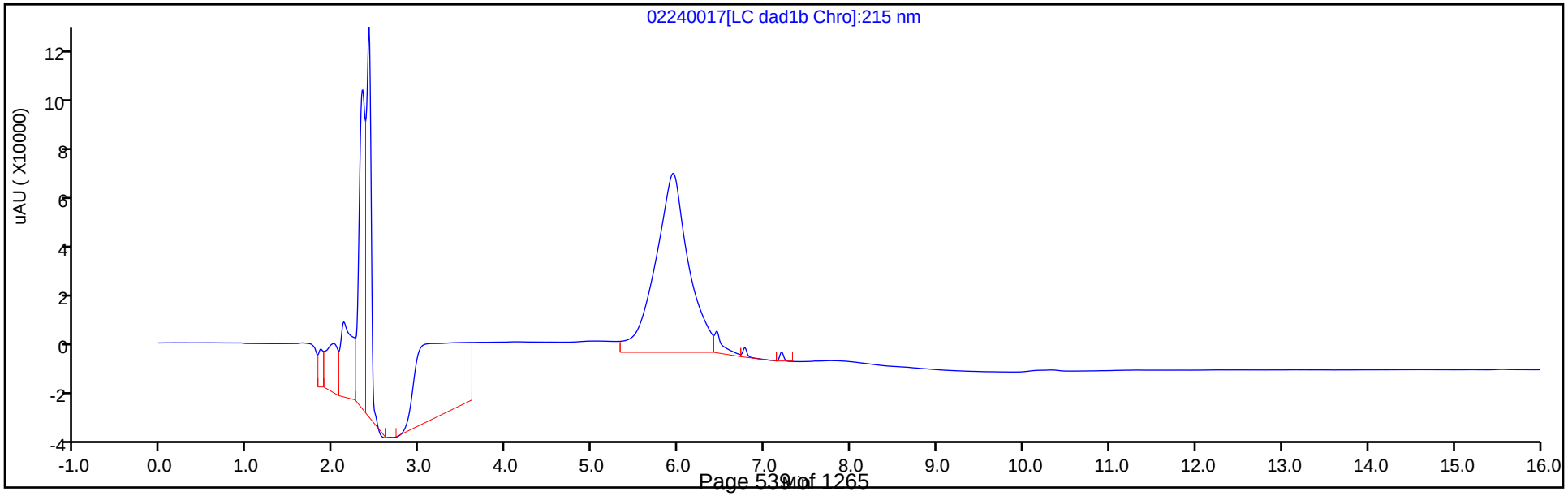
Data File: \\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240017.d

Injection Date:	24-Feb-2023 17:18:19	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC DMT 2			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



Manual Integration/User Assign Peak Report

Eurofins Denver

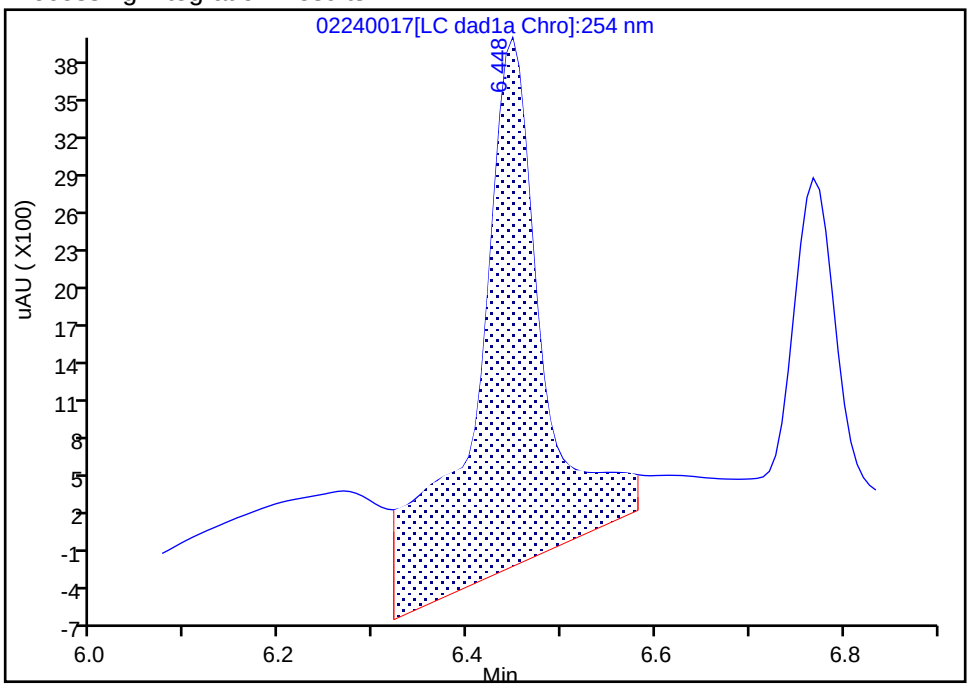
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240017.d				
Injection Date:	24-Feb-2023 17:18:19	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 2				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 TNX, CAS: 13980-04-6

Signal: 1

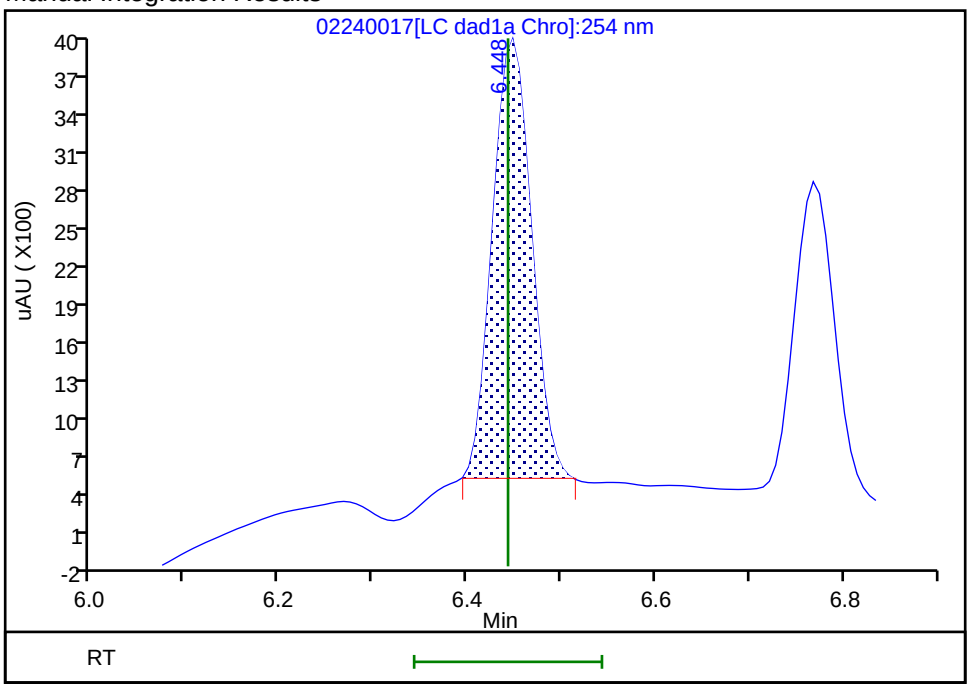
Processing Integration Results

RT: 6.45
Area: 21070
Amount: 0.091223
Amount Units: ug/mL



Manual Integration Results

RT: 6.45
Area: 9917
Amount: 0.050165
Amount Units: ug/mL



Reviewer: LV5D, 24-Feb-2023 17:51:28
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

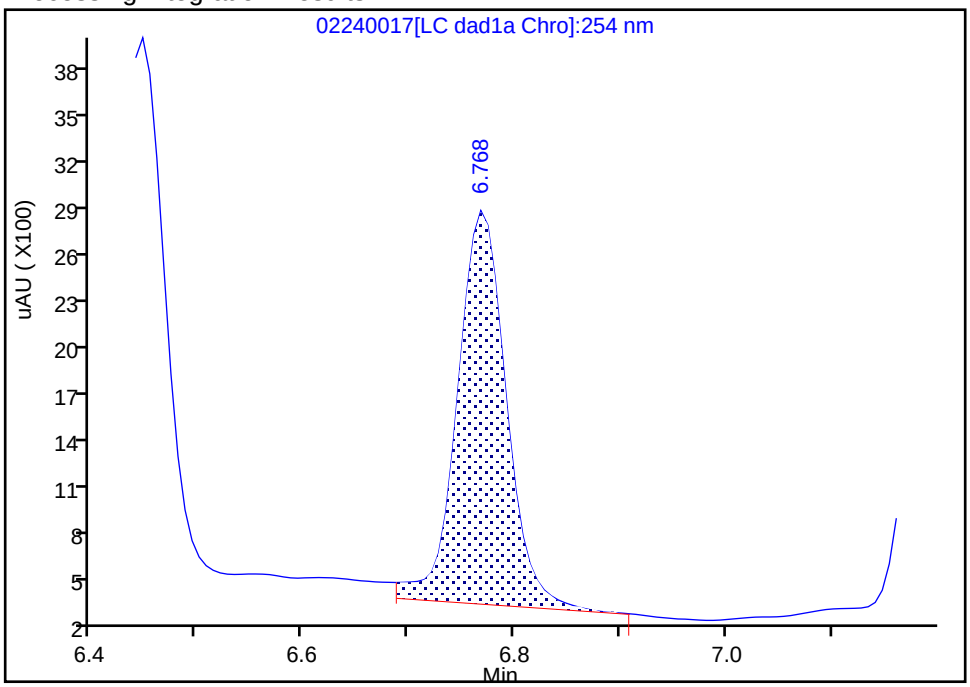
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240017.d				
Injection Date:	24-Feb-2023 17:18:19	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 2				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 DNX, CAS: 80251-29-2

Signal: 1

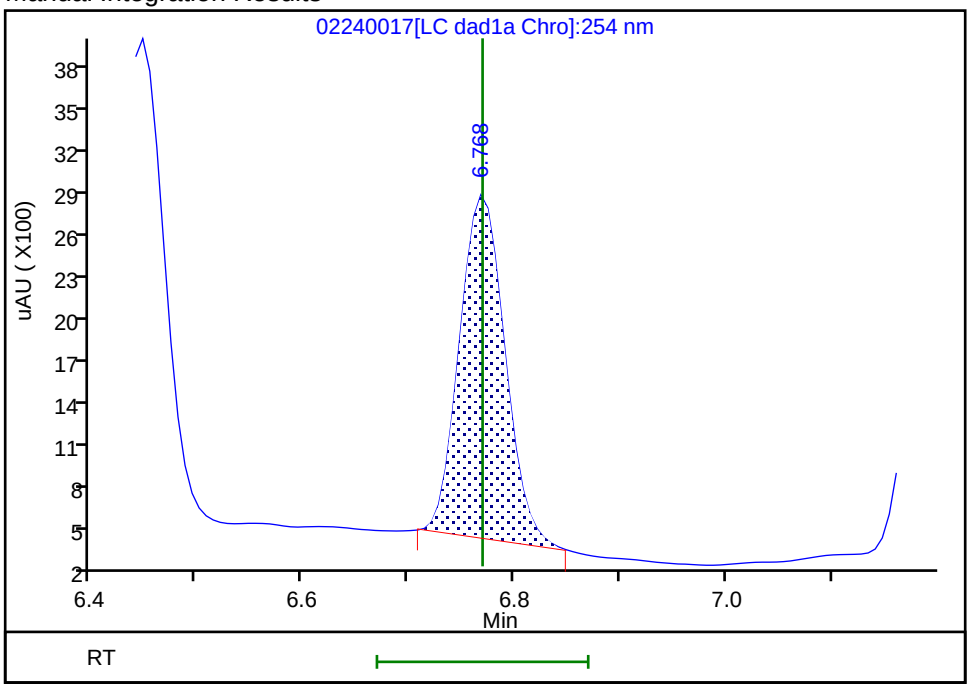
Processing Integration Results

RT: 6.77
Area: 8177
Amount: 0.055426
Amount Units: ug/mL



Manual Integration Results

RT: 6.77
Area: 7338
Amount: 0.050795
Amount Units: ug/mL



Reviewer: LV5D, 24-Feb-2023 17:51:32

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D
Lims ID: IC DMT 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 24-Feb-2023 17:41:20 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC DMT 1
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub17

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 28-Feb-2023 13:17:30 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1602

First Level Reviewer: LV5D Date: 24-Feb-2023 18:10:19

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.444	6.443	0.001	3753	0.0201	0.0190	M
6 DNX	1	6.771	6.770	0.001	2798	0.0200	0.0194	M
7 MNX	1	7.197	7.196	0.001	2982	0.0233	0.0227	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00013 Amount Added: 1.00 Units: uL

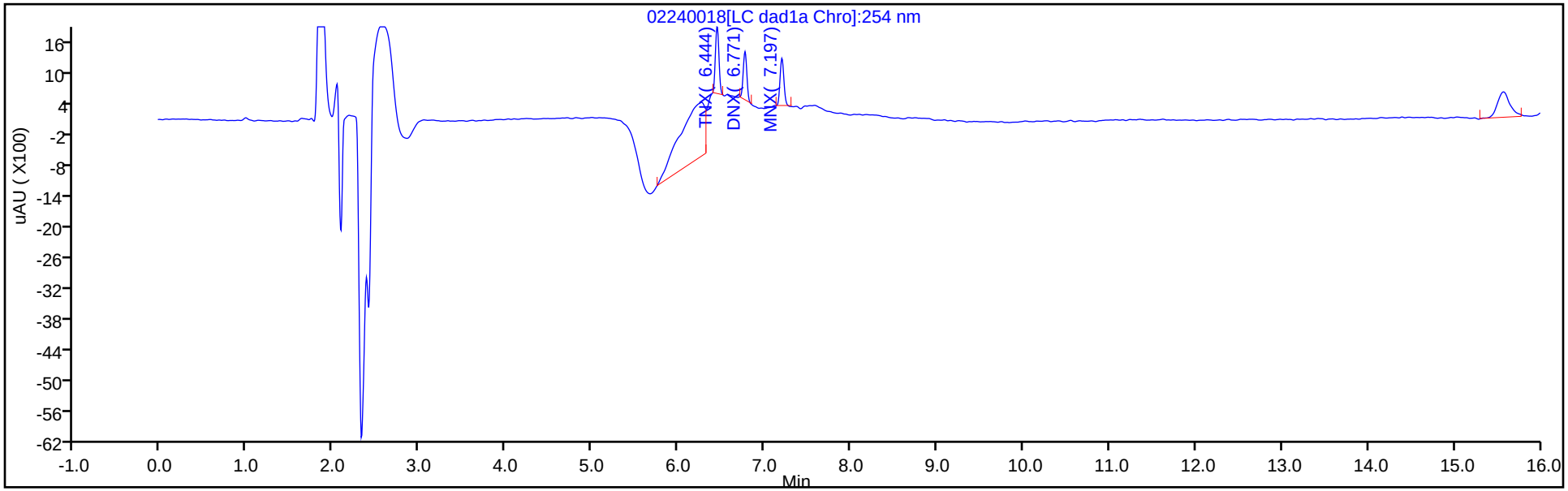
Report Date: 28-Feb-2023 13:17:30 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Denver

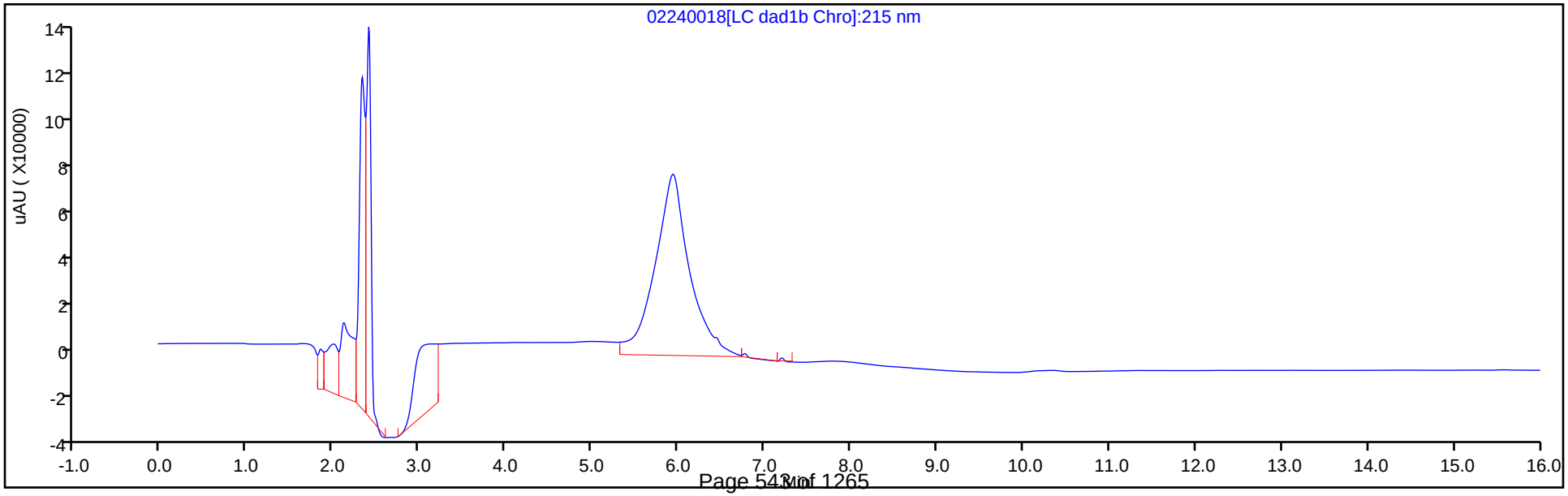
Data File: \\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240018.d

Injection Date:	24-Feb-2023 17:41:20	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	IC DMT 1			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



Eurofins Denver

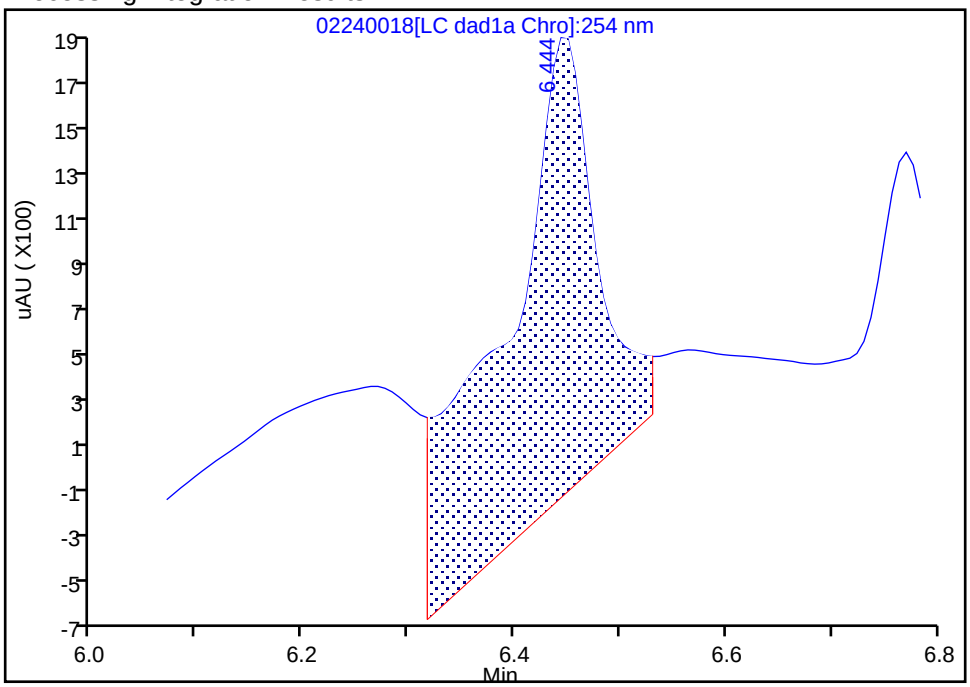
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240018.d				
Injection Date:	24-Feb-2023 17:41:20	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 1				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 TNX, CAS: 13980-04-6

Signal: 1

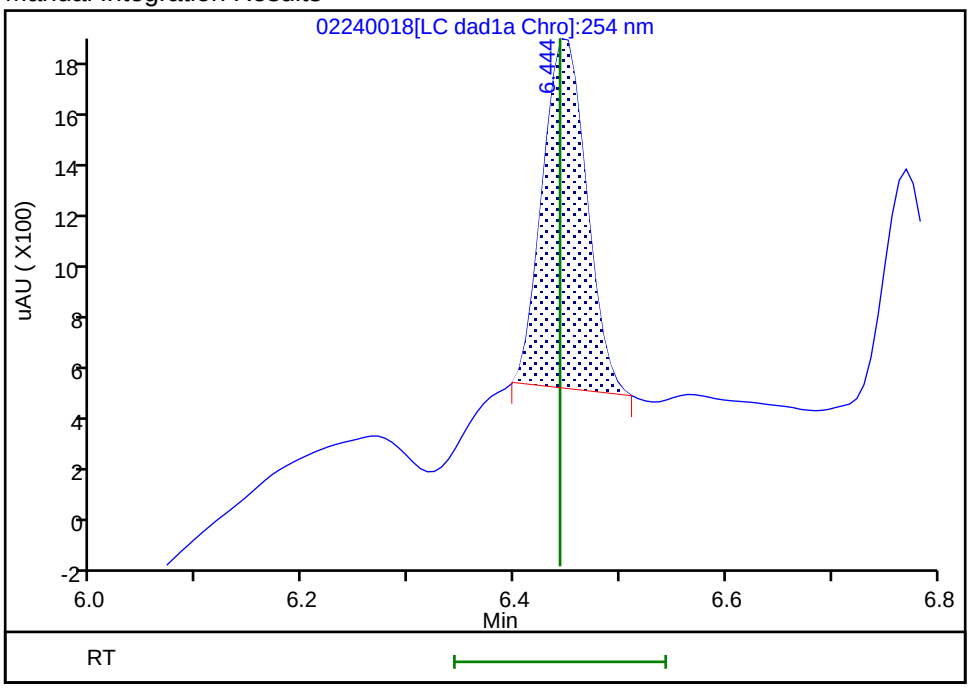
Processing Integration Results

RT: 6.44
Area: 12281
Amount: 0.048962
Amount Units: ug/mL



Manual Integration Results

RT: 6.44
Area: 3753
Amount: 0.018985
Amount Units: ug/mL



Reviewer: LV5D, 24-Feb-2023 18:10:04
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Denver

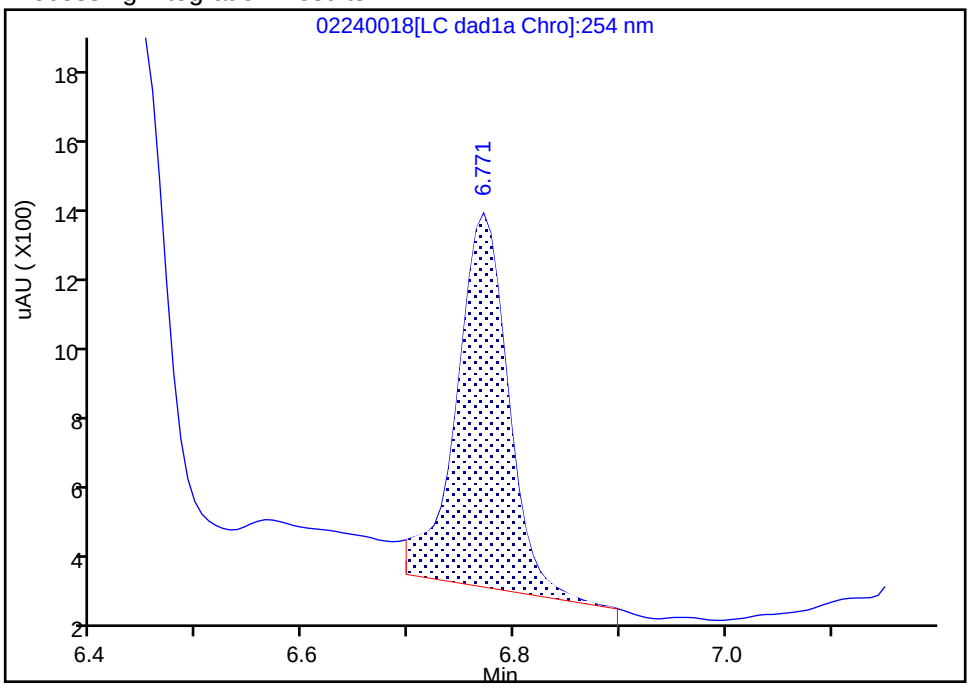
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240018.d				
Injection Date:	24-Feb-2023 17:41:20	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT 1				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 DNX, CAS: 80251-29-2

Signal: 1

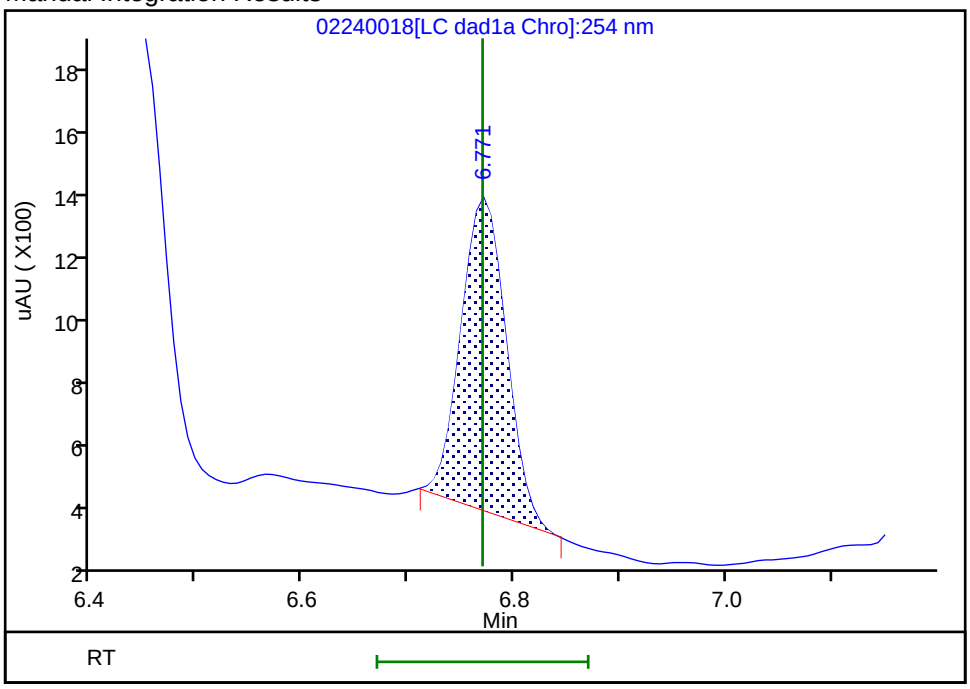
Processing Integration Results

RT: 6.77
Area: 3465
Amount: 0.023313
Amount Units: ug/mL



Manual Integration Results

RT: 6.77
Area: 2798
Amount: 0.019368
Amount Units: ug/mL



Reviewer: LV5D, 24-Feb-2023 18:10:11
Audit Action: Manually Integrated Audit Reason: Baseline

Calibration / TNX

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

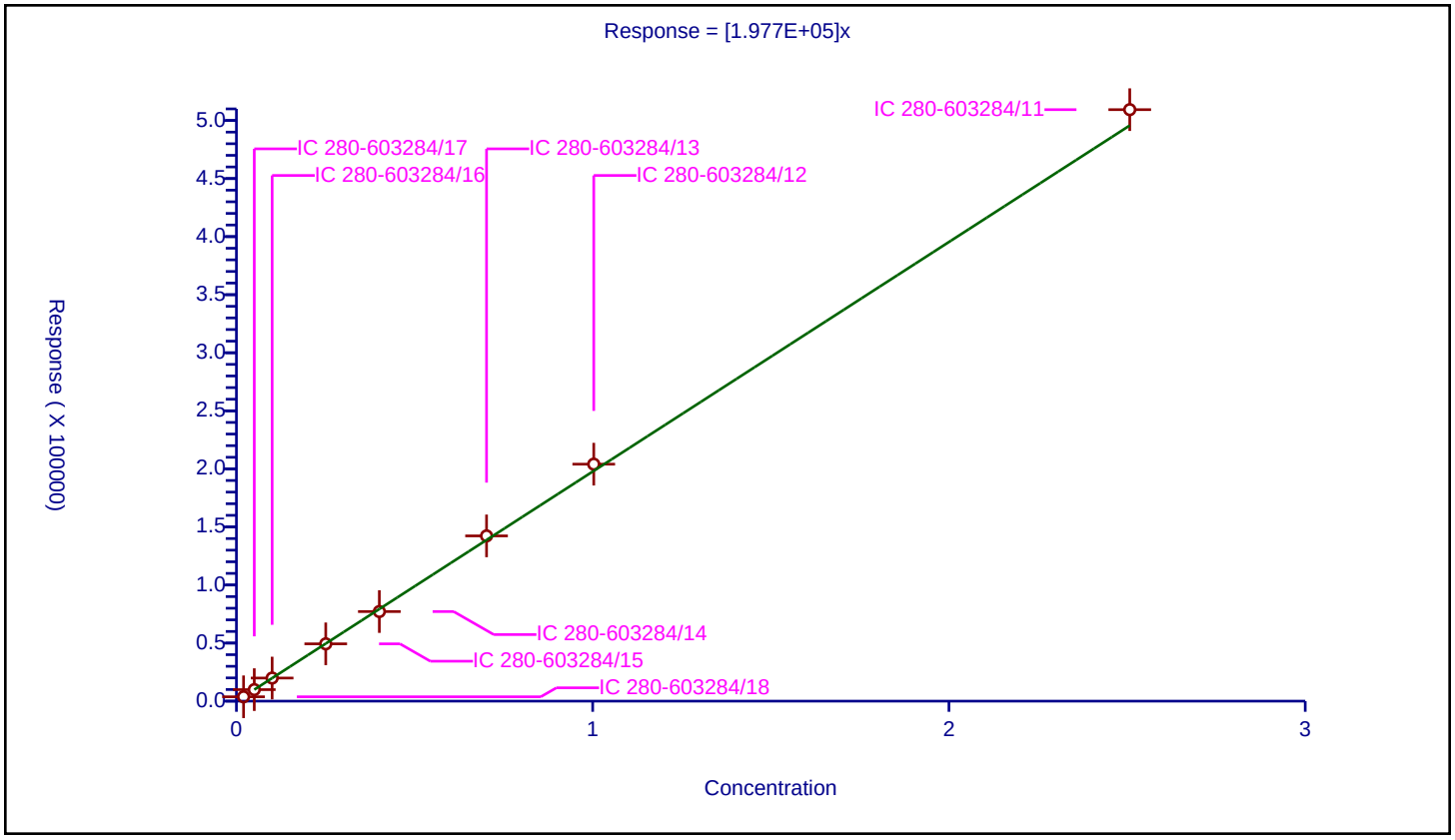
Curve Coefficients

Intercept:	0
Slope:	1.977E+05

Error Coefficients

Standard Error:	5810
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-603284/18	0.02006	3753.0			187088.733799	Y
2	IC 280-603284/17	0.05015	9917.0			197746.759721	Y
3	IC 280-603284/16	0.1003	19892.0			198325.024925	Y
4	IC 280-603284/15	0.25075	49343.0			196781.655035	Y
5	IC 280-603284/14	0.4012	77150.0			192298.105683	Y
6	IC 280-603284/13	0.7021	142294.0			202669.135451	Y
7	IC 280-603284/12	1.003	204073.0			203462.612164	Y
8	IC 280-603284/11	2.5075	509340.0			203126.62014	Y



Calibration / DNX

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

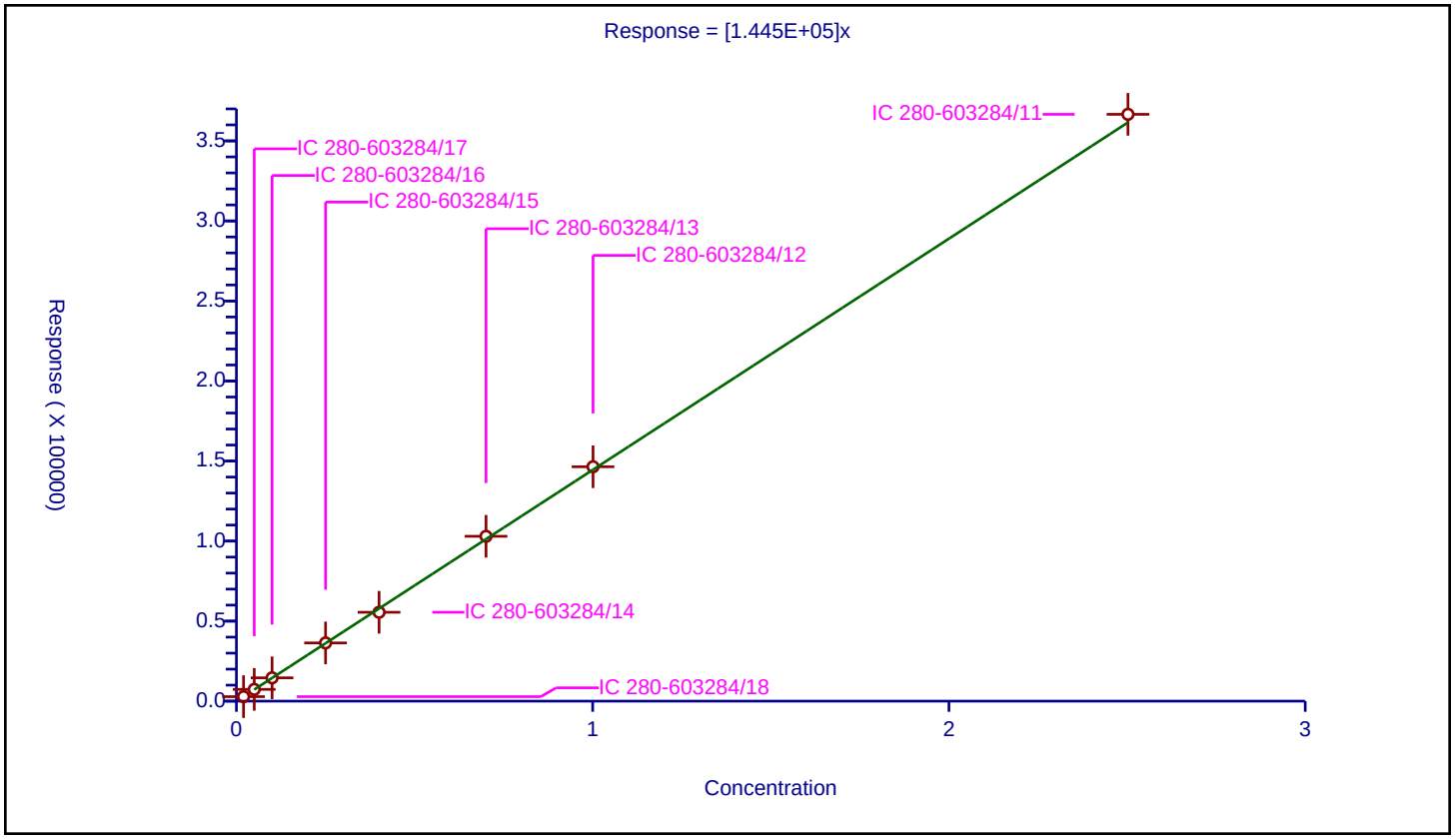
Curve Coefficients

Intercept:	0
Slope:	1.445E+05

Error Coefficients

Standard Error:	2320
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-603284/18	0.02002	2798.0			139760.23976	Y
2	IC 280-603284/17	0.05005	7338.0			146613.386613	Y
3	IC 280-603284/16	0.1001	14570.0			145554.445554	Y
4	IC 280-603284/15	0.25025	36370.0			145334.665335	Y
5	IC 280-603284/14	0.4004	55525.0			138673.826174	Y
6	IC 280-603284/13	0.7007	102987.0			146977.308406	Y
7	IC 280-603284/12	1.001	146436.0			146289.71029	Y
8	IC 280-603284/11	2.5025	366607.0			146496.303696	Y



Calibration / MNX

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

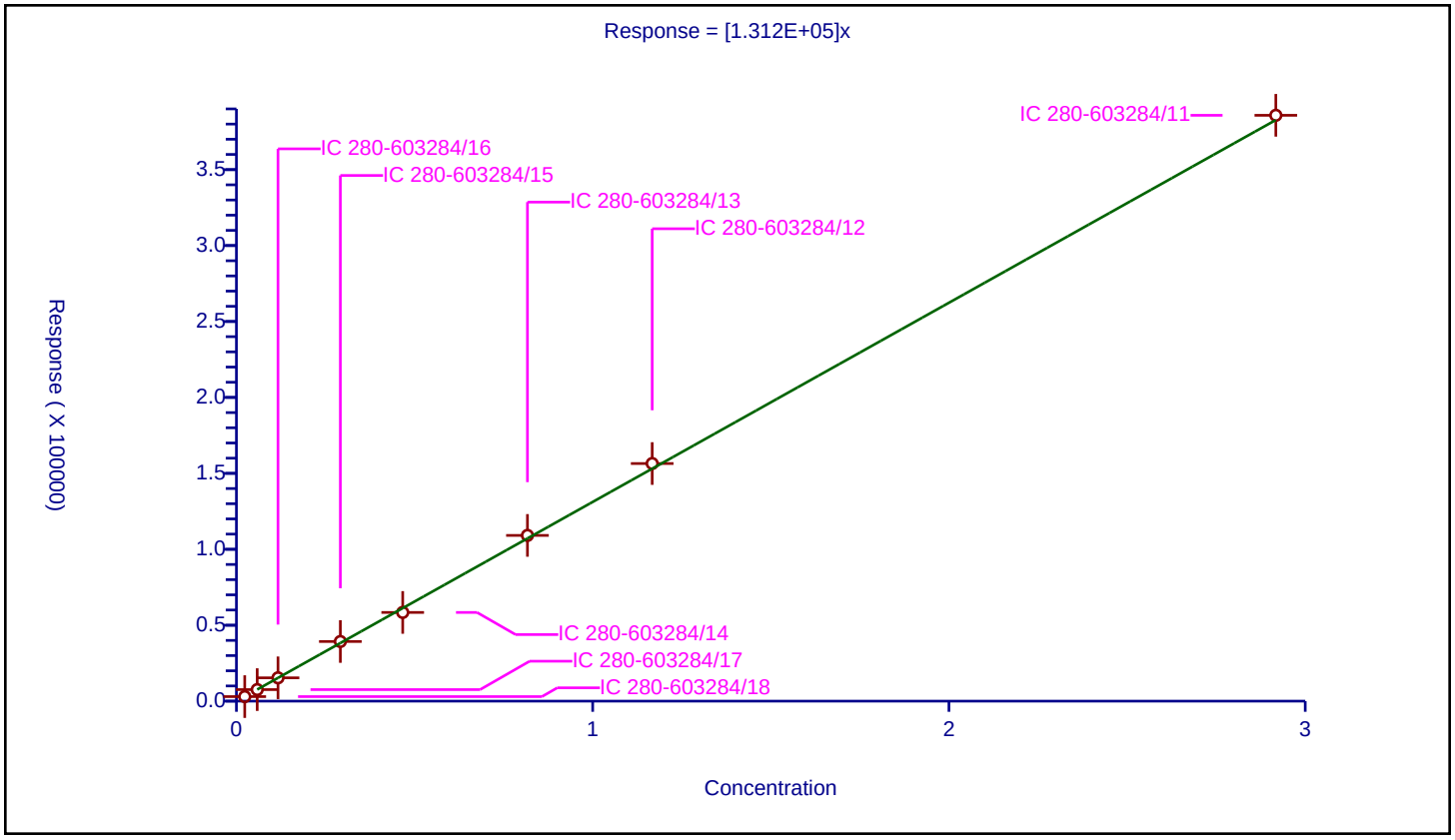
Curve Coefficients

Intercept:	0
Slope:	1.312E+05

Error Coefficients

Standard Error:	2200
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-603284/18	0.02334	2982.0			127763.496144	Y
2	IC 280-603284/17	0.05835	7605.0			130334.190231	Y
3	IC 280-603284/16	0.1167	15358.0			131602.399314	Y
4	IC 280-603284/15	0.29175	39278.0			134628.963153	Y
5	IC 280-603284/14	0.4668	58415.0			125139.24593	Y
6	IC 280-603284/13	0.8169	109131.0			133591.626882	Y
7	IC 280-603284/12	1.167	156478.0			134085.689803	Y
8	IC 280-603284/11	2.9175	385772.0			132226.906598	Y



FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1 Analy Batch No.: 610603

SDG No.:

Instrument ID: CHHPLC_X5 GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/28/2023 18:24 Calibration End Date: 04/28/2023 23:03 Calibration ID: 79725

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-610603/18	04280018.D
Level 2	IC 280-610603/17	04280017.D
Level 3	IC 280-610603/16	04280016.D
Level 4	IC 280-610603/15	04280015.D
Level 5	IC 280-610603/14	04280014.D
Level 6	IC 280-610603/13	04280013.D
Level 7	IC 280-610603/12	04280012.D
Level 8	IC 280-610603/11	04280011.D
Level 9	IC 280-610603/10	04280010.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	5.116	5.136	5.116	5.116	5.115	5.108	5.096	5.095	5.014		4.965 - 5.265	5.101
DNX	5.963	5.983	5.969	5.963	5.955	5.954	5.943	5.942	5.854		5.805 - 6.105	5.947
HMX	+++++	6.630	6.603	6.603	6.595	6.594	6.589	6.588	6.521		6.445 - 6.745	6.590
MNX	7.496	7.523	7.503	7.496	7.489	7.488	7.476	7.475	7.387		7.339 - 7.639	7.481
Picric acid	8.063	8.116	8.076	8.056	8.029	8.008	7.956	7.935	+++++		7.879 - 8.179	8.030
RDX	8.923	8.956	8.929	8.923	8.915	8.908	8.903	8.902	8.814		8.765 - 9.065	8.908
Nitrobenzene	11.489	11.523	11.489	11.483	11.482	11.461	11.462	11.462	11.374		11.332 - 11.632	11.469
3,5-Dinitroaniline	14.376	14.410	14.369	14.363	14.355	14.334	14.329	14.355	14.367		14.205 - 14.505	14.362
1,3-Dinitrobenzene	14.636	14.663	14.629	14.623	14.622	14.601	14.596	14.615	14.527		14.472 - 14.772	14.612
Nitroglycerin	15.196	15.216	15.176	15.176	15.182	15.154	15.149	15.175	15.121		15.032 - 15.332	15.172
2-Nitrotoluene	15.736	15.770	15.723	15.730	15.729	15.708	15.696	15.722	15.661		15.579 - 15.879	15.719
4-Nitrotoluene	15.969	15.996	15.956	15.956	15.955	15.934	15.922	15.948	15.834		15.805 - 16.105	15.941
4-Amino-2,6-dinitrotoluene	16.529	16.556	16.523	16.523	16.515	16.501	16.482	16.528	16.441		16.365 - 16.665	16.511
3-Nitrotoluene	16.843	16.843	16.816	16.816	16.815	16.801	16.782	16.828	16.734		16.665 - 16.965	16.809
2-Amino-4,6-dinitrotoluene	17.369	17.410	17.376	17.370	17.362	17.354	17.329	17.402	17.367		17.212 - 17.512	17.371
1,3,5-Trinitrobenzene	17.443	17.456	17.429	17.423	17.422	17.414	17.389	17.442	17.367		17.272 - 17.572	17.421
2,6-Dinitrotoluene	18.643	18.670	18.643	18.636	18.629	18.628	18.622	18.675	18.561		18.479 - 18.779	18.634
2,4-Dinitrotoluene	19.096	19.123	19.096	19.090	19.082	19.081	19.076	19.128	19.021		18.932 - 19.232	19.088
Tetryl	22.363	22.396	22.369	22.363	22.389	22.361	22.389	22.442	22.341		22.239 - 22.539	22.379
2,4,6-Trinitrotoluene	23.176	23.196	23.163	23.156	23.182	23.154	23.183	23.228	23.134		23.032 - 23.332	23.175
PETN	24.430	24.450	24.423	24.416	24.475	24.428	24.469	24.508	24.421		24.325 - 24.625	24.447
1,2-Dinitrobenzene	12.483	12.516	12.476	12.470	12.469	12.448	12.442	12.455	12.374		12.319 - 12.619	12.459

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver | Job No.: 280-176591-1 | Analy Batch No.: 610603

SDG No.:

Instrument ID: CHHPLC_X5 | GC Column: Luna-phenyl ID: 4.6(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 04/28/2023 18:24 | Calibration End Date: 04/28/2023 23:03 | Calibration ID: 79725

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-610603/18	04280018.D
Level 2	IC 280-610603/17	04280017.D
Level 3	IC 280-610603/16	04280016.D
Level 4	IC 280-610603/15	04280015.D
Level 5	IC 280-610603/14	04280014.D
Level 6	IC 280-610603/13	04280013.D
Level 7	IC 280-610603/12	04280012.D
Level 8	IC 280-610603/11	04280011.D
Level 9	IC 280-610603/10	04280010.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	453838 343462 370331	407727 368303	404407 394444	416291 390186	Ave		394332.075				8.1		20.0			
DNX	280120 247976 265367	286114 268282	294366 283929	286124 281374	Ave		277072.290				5.1		20.0			
HMX	+++++ 184440 193632	222450 169983	215220 187240	195730 189027	Lin2	831.975634	185425.338							0.9970		0.9900
MNX	312425 228103 265422	263710 245259	268963 258928	261611 255982	Ave		262267.073				8.6		20.0			
Picric acid	219700 160808 +++++	172650 149730	179000 163827	170600 165319	Lin2	546.111079	159807.270							0.9960		0.9900
RDX	285200 214572 225981	243150 197783	232420 219114	228270 221588	Lin2	672.503491	215639.318							0.9980		0.9900
Nitrobenzene	426900 386724 401056	393550 354198	417660 395110	415850 398454	Ave		398833.544				5.3		20.0			
3,5-Dinitroaniline	505300 452216 407228	461050 414810	483520 461404	469800 460771	Lin2	607.261331	444569.707							0.9970		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
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-176591-1 Analy Batch No.: 610603

SDG No.:

Instrument ID: CHHPLC_X5 GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/28/2023 18:24 Calibration End Date: 04/28/2023 23:03 Calibration ID: 79725

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								
1,3-Dinitrobenzene	694600 610632 687042	615350 554495	629180 616069	625960 630835	Ave		629351.397				6.6		20.0			
Nitroglycerin	146030 130878 134334	137045 120030	142168 132805	134661 134666	Ave		134735.154				5.4		20.0			
2-Nitrotoluene	233600 242696 244772	264050 225665	259020 249076	252900 250892	Ave		246963.368				4.8		20.0			
4-Nitrotoluene	220600 226220 241286	223300 203570	243580 227886	230020 230951	Ave		227490.302				5.2		20.0			
4-Amino-2,6-dinitrotoluene	327500 286712 289176	303200 260730	305300 288184	294720 292369	Ave		294210.143				6.1		20.0			
3-Nitrotoluene	326900 284164 298841	291150 260845	310920 290920	295690 292277	Ave		294634.089				6.1		20.0			
2-Amino-4,6-dinitrotoluene	391200 434020 467007	412850 397298	463240 420357	439480 426004	Ave		427939.494				6.1		20.0			
1,3,5-Trinitrobenzene	443800 392672 378606	389950 354488	441180 413963	419460 417113	Ave		405692.417				7.2		20.0			
2,6-Dinitrotoluene	309300 283472 290190	285800 257870	317520 287934	302600 290390	Ave		291675.187				5.9		20.0			
2,4-Dinitrotoluene	598700 572392 588866	612050 519843	608140 580639	594330 585209	Ave		584463.075				4.7		20.0			
Tetryl	328200 273308 283850	317400 246538	284660 274789	275340 278494	Ave		284730.941				8.6		20.0			
2,4,6-Trinitrotoluene	491900 418244 436729	496250 380470	443680 421144	431360 430103	Ave		438875.565				8.2		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.: 280-176591-1 Analy Batch No.: 610603

SDG No.:

Instrument ID: CHHPLC_X5 GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/28/2023 18:24 Calibration End Date: 04/28/2023 23:03 Calibration ID: 79725

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	163440 140765 142965	144025 128148	145886 141788	146450 141973	Ave		143937.770				6.3		20.0			
1,2-Dinitrobenzene	316900 269384 276674	301900 245698	287580 273104	278930 276103	Ave		280697.021				7.2		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.: 280-176591-1 Analy Batch No.: 610603

SDG No.:

Instrument ID: CHHPLC_X5 GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/28/2023 18:24 Calibration End Date: 04/28/2023 23:03 Calibration ID: 79725

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-610603/18	04280018.D
Level 2	IC 280-610603/17	04280017.D
Level 3	IC 280-610603/16	04280016.D
Level 4	IC 280-610603/15	04280015.D
Level 5	IC 280-610603/14	04280014.D
Level 6	IC 280-610603/13	04280013.D
Level 7	IC 280-610603/12	04280012.D
Level 8	IC 280-610603/11	04280011.D
Level 9	IC 280-610603/10	04280010.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	4552 147763	8179 276939	20281 391357	41754 928605	86123	0.0100 0.401	0.0201 0.702	0.0502 1.00	0.100 2.51	0.251
DNX	Ave	2804 107420	5728 198949	14733 281655	28641 664081	62056	0.0100 0.400	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250
HMX	Lin2	+++++ 67993	4449 131068	10761 189027	19573 484081	46110	+++++ 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
MNX	Ave	3646 114487	6155 211518	15694 298731	30530 774370	66549	0.0117 0.467	0.0233 0.817	0.0584 1.17	0.117 2.92	0.292
Picric acid	Lin2	2197 59892	3453 114679	8950 165319	17060 +++++	40202	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 +++++	0.250
RDX	Lin2	2852 79113	4863 153380	11621 221588	22827 564953	53643	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
Nitrobenzene	Ave	4269 141679	7871 276577	20883 398454	41585 1002641	96681	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
3,5-Dinitroaniline	Lin2	5053 165924	9221 322983	24176 460771	46980 1018070	113054	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
1,3-Dinitrobenzene	Ave	6946 221798	12307 431248	31459 630835	62596 1717605	152658	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
Nitroglycerin	Ave	14603 480119	27409 929634	71084 1346659	134661 3358347	327195	0.100 4.00	0.200 7.00	0.500 10.0	1.00 25.0	2.50
2-Nitrotoluene	Ave	2336 90266	5281 174353	12951 250892	25290 611929	60674	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
4-Nitrotoluene	Ave	2206 81428	4466 159520	12179 230951	23002 603215	56555	0.0100 0.400	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250
4-Amino-2,6-dinitrotoluene	Ave	3275	6064	15265	29472	71678	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.: 280-176591-1 Analy Batch No.: 610603

SDG No.:

Instrument ID: CHHPLC_X5 GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/28/2023 18:24 Calibration End Date: 04/28/2023 23:03 Calibration ID: 79725

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
		104292	201729	292369	722940		0.400	0.700	1.00	2.50	
3-Nitrotoluene	Ave	3269	5823	15546	29569	71041	0.0100	0.0200	0.0500	0.100	0.250
		104338	203644	292277	747102		0.400	0.700	1.00	2.50	
2-Amino-4,6-dinitrotoluene	Ave	3912	8257	23162	43948	108505	0.0100	0.0200	0.0500	0.100	0.250
		158919	294250	426004	1167517		0.400	0.700	1.00	2.50	
1,3,5-Trinitrobenzene	Ave	4438	7799	22059	41946	98168	0.0100	0.0200	0.0500	0.100	0.250
		141795	289774	417113	946516		0.400	0.700	1.00	2.50	
2,6-Dinitrotoluene	Ave	3093	5716	15876	30260	70868	0.0100	0.0200	0.0500	0.100	0.250
		103148	201554	290390	725476		0.400	0.700	1.00	2.50	
2,4-Dinitrotoluene	Ave	5987	12241	30407	59433	143098	0.0100	0.0200	0.0500	0.100	0.250
		207937	406447	585209	1472164		0.400	0.700	1.00	2.50	
Tetryl	Ave	3282	6348	14233	27534	68327	0.0100	0.0200	0.0500	0.100	0.250
		98615	192352	278494	709626		0.400	0.700	1.00	2.50	
2,4,6-Trinitrotoluene	Ave	4919	9925	22184	43136	104561	0.0100	0.0200	0.0500	0.100	0.250
		152188	294801	430103	1091822		0.400	0.700	1.00	2.50	
PETN	Ave	16344	28805	72943	146450	351913	0.100	0.200	0.500	1.00	2.50
		512590	992519	1419730	3574120		4.00	7.00	10.0	25.0	
1,2-Dinitrobenzene	Ave	3169	6038	14379	27893	67346	0.0100	0.0200	0.0500	0.100	0.250
		98279	191173	276103	691686		0.400	0.700	1.00	2.50	

Curve Type Legend
Ave = Average
Lin2 = Linear 1/conc^2

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280010.D
Lims ID: IC INT 9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 28-Apr-2023 18:24:11 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*sub6

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 29-Apr-2023 13:04:16 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1621

First Level Reviewer: LV5D Date: 29-Apr-2023 13:01:46

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.014	5.115	-0.101	928605	2.51	2.35	
4 DNX	1	5.854	5.955	-0.101	664081	2.50	2.40	
5 HMX	1	6.521	6.595	-0.074	484081	2.50	2.61	
6 MNX	1	7.387	7.489	-0.102	774370	2.92	2.95	
7 2,4,6-Trinitrophenol	1	7.867	8.029	-0.162	285146	2.50	1.78	
8 RDX	1	8.814	8.915	-0.101	564953	2.50	2.62	
9 Nitrobenzene	1	11.374	11.482	-0.108	1002641	2.50	2.51	
$ 10 1,2-Dinitrobenzene	1	12.374	12.469	-0.095	691686	2.50	2.46	
11 3,5-Dinitroaniline	1	14.367	14.355	0.012	1018070	2.50	2.29	Ma
12 1,3-Dinitrobenzene	1	14.527	14.622	-0.095	1717605	2.50	2.73	M
13 Nitroglycerin	2	15.121	15.182	-0.061	3358347	25.0	24.9	
14 o-Nitrotoluene	1	15.661	15.729	-0.068	611929	2.50	2.48	M
16 p-Nitrotoluene	1	15.834	15.955	-0.121	603215	2.50	2.65	M
17 4-Amino-2,6-dinitrotoluene	1	16.441	16.515	-0.074	722940	2.50	2.46	M
18 m-Nitrotoluene	1	16.734	16.815	-0.081	747102	2.50	2.54	M
19 2-Amino-4,6-dinitrotoluene	1	17.367	17.362	0.005	1167517	2.50	2.73	M
20 1,3,5-Trinitrobenzene	1	17.367	17.422	-0.055	946516	2.50	2.33	M
21 2,6-Dinitrotoluene	1	18.561	18.629	-0.068	725476	2.50	2.49	M
22 2,4-Dinitrotoluene	1	19.021	19.082	-0.061	1472164	2.50	2.52	M
23 Tetryl	1	22.341	22.389	-0.048	709626	2.50	2.49	
24 2,4,6-Trinitrotoluene	1	23.134	23.182	-0.048	1091822	2.50	2.49	
25 PETN	2	24.421	24.475	-0.054	3574120	25.0	24.8	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

8330IntermStk_00076	Amount Added: 250.00	Units: uL
8330 DMT_00013	Amount Added: 125.00	Units: uL

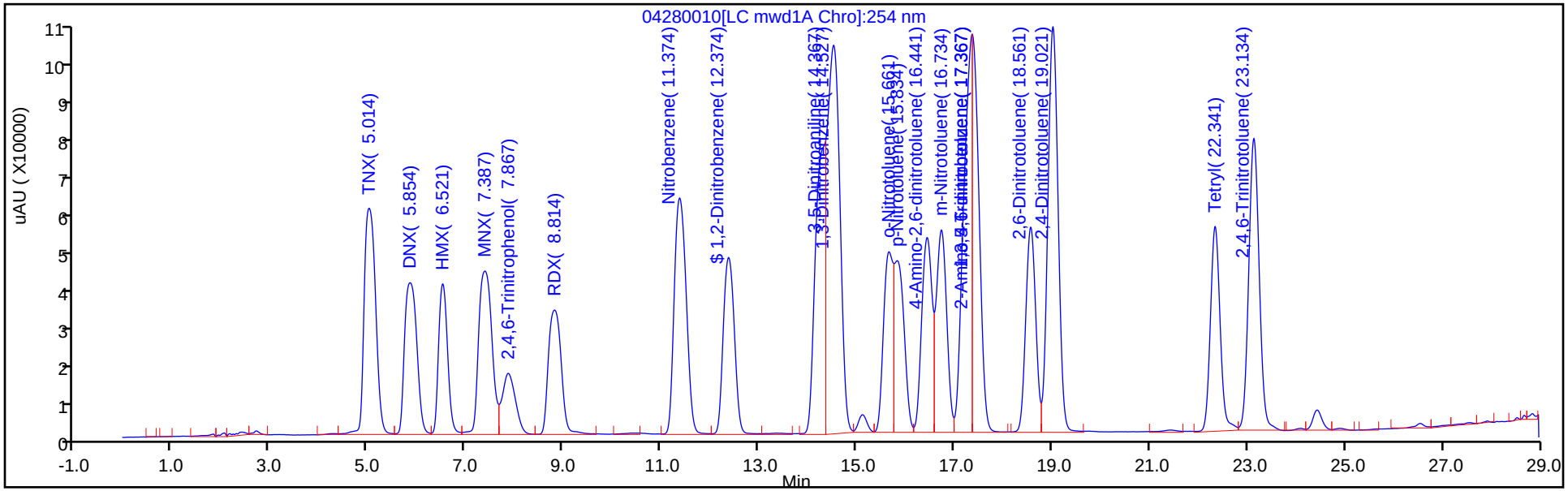
Report Date: 29-Apr-2023 13:04:16 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

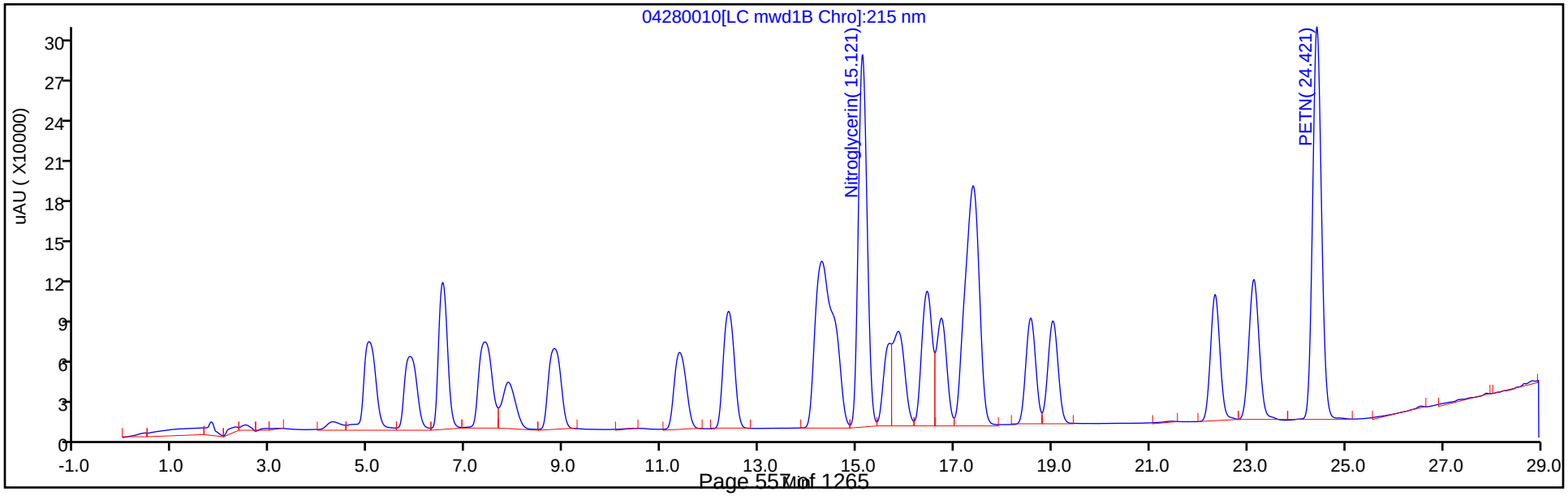
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280010.D

Injection Date:	28-Apr-2023 18:24:11	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



Manual Integration/User Assign Peak Report

Eurofins Denver

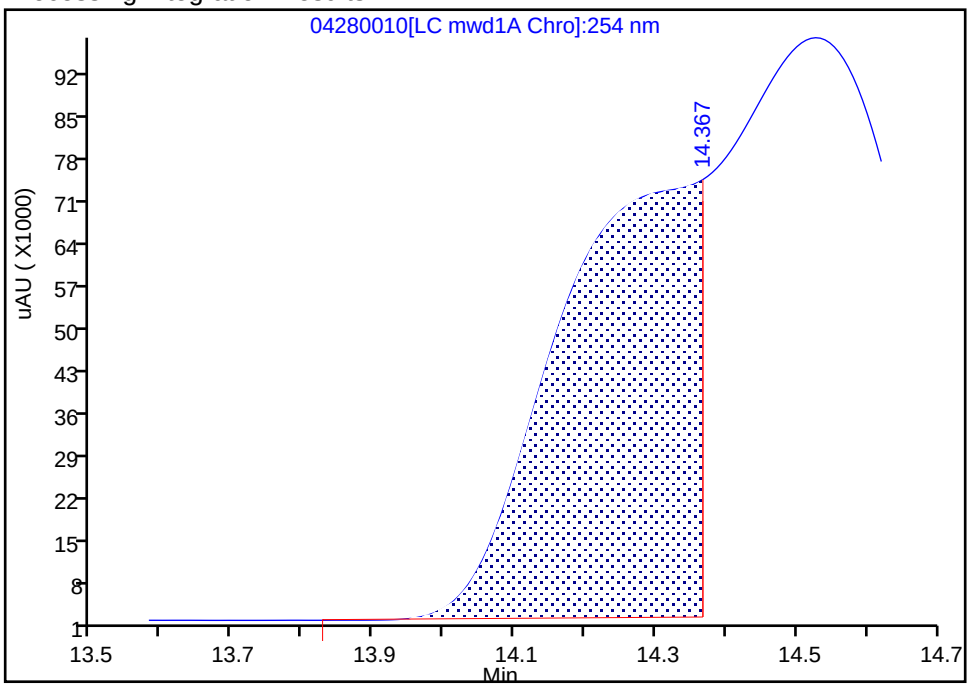
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280010.D				
Injection Date:	28-Apr-2023 18:24:11	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 9				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

11 3,5-Dinitroaniline, CAS: 618-87-1

Signal: 1

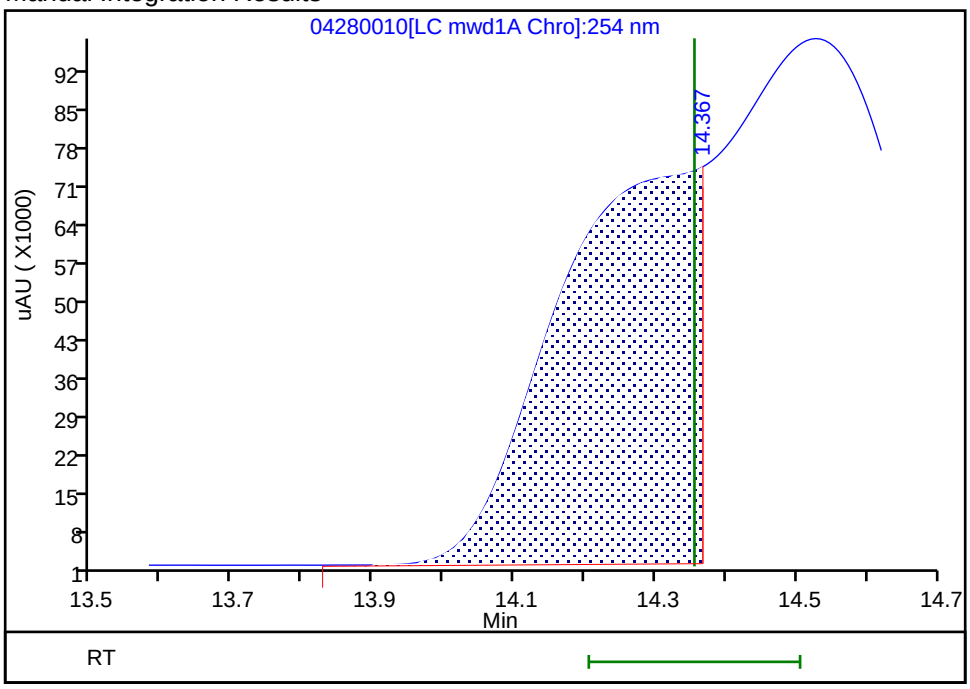
Processing Integration Results

RT: 14.37
Area: 1013469
Amount: 2.724745
Amount Units: ug/ml



Manual Integration Results

RT: 14.37
Area: 1018070
Amount: 2.288646
Amount Units: ug/ml



Reviewer: LV5D, 28-Apr-2023 19:01:40
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

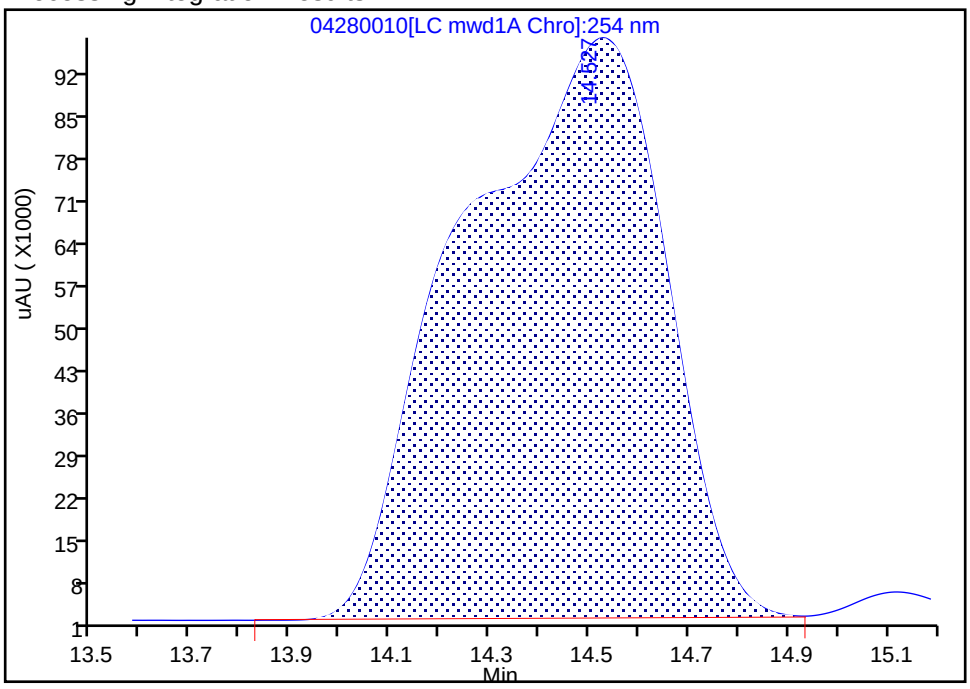
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280010.D				
Injection Date:	28-Apr-2023 18:24:11	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 9				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

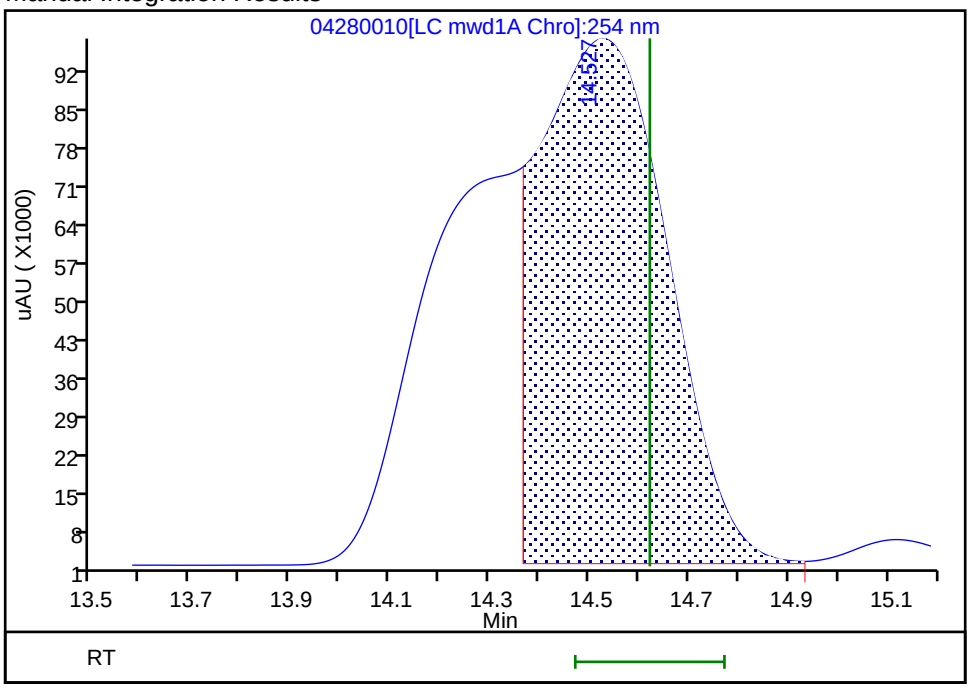
Processing Integration Results

RT: 14.53
Area: 2715993
Amount: 3.616571
Amount Units: ug/ml



Manual Integration Results

RT: 14.53
Area: 1717605
Amount: 2.729167
Amount Units: ug/ml



Reviewer: LV5D, 28-Apr-2023 19:01:40

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

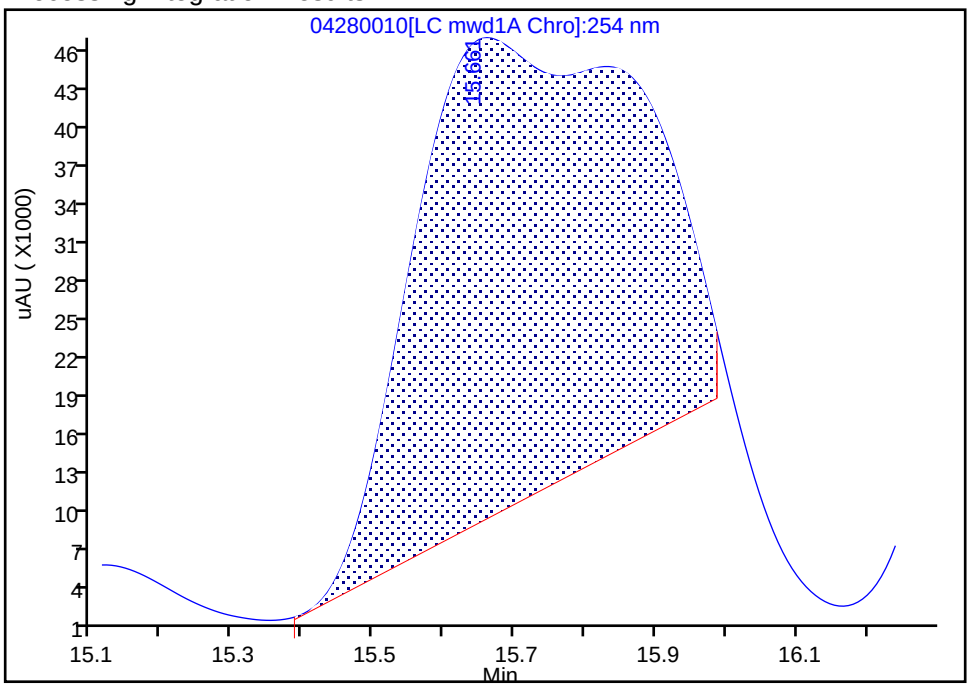
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280010.D				
Injection Date:	28-Apr-2023 18:24:11	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 9				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

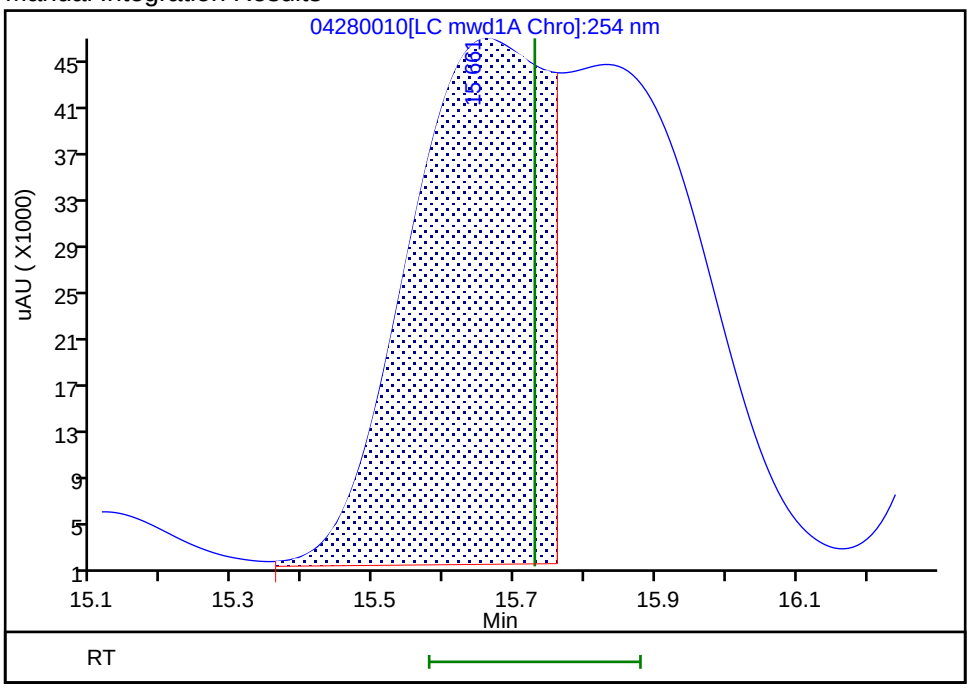
Processing Integration Results

RT: 15.66
Area: 811716
Amount: 3.605542
Amount Units: ug/ml



Manual Integration Results

RT: 15.66
Area: 611929
Amount: 2.477813
Amount Units: ug/ml



Reviewer: LV5D, 28-Apr-2023 19:01:40

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

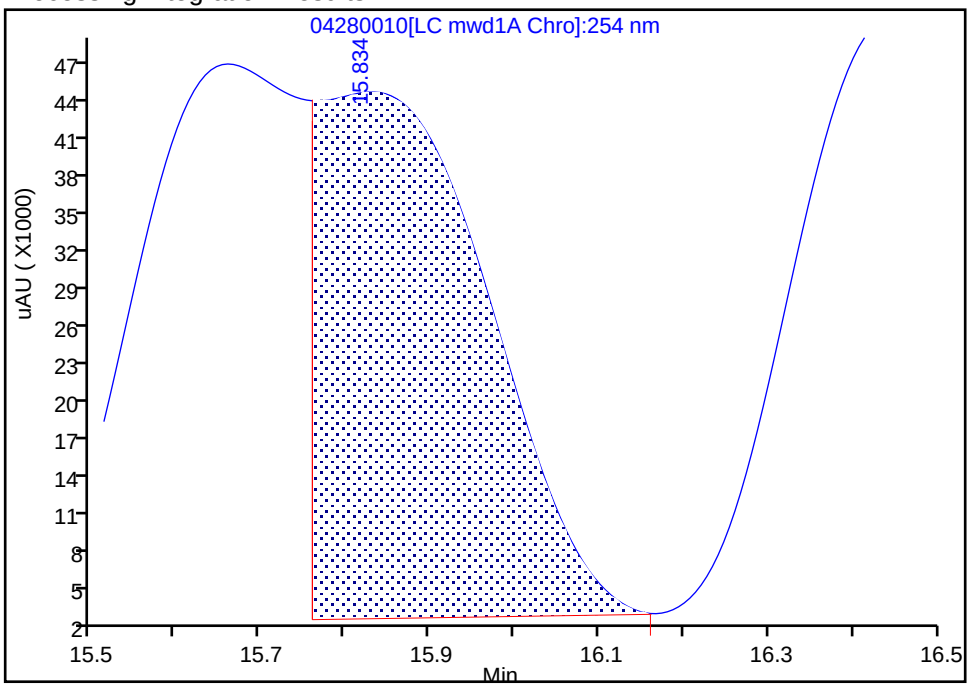
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280010.D				
Injection Date:	28-Apr-2023 18:24:11	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 9				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

16 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

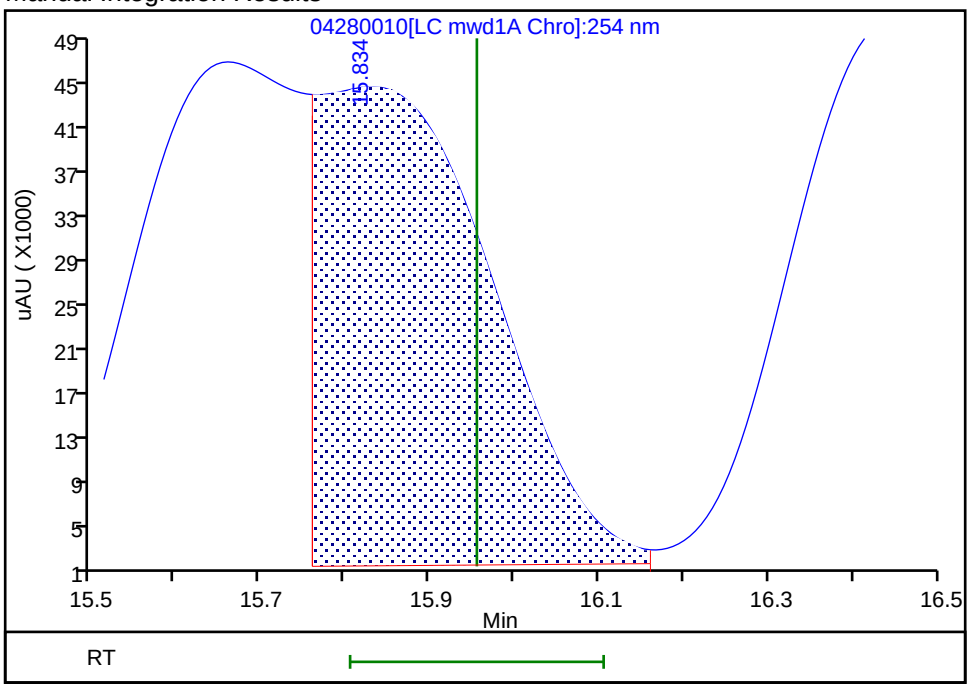
Processing Integration Results

RT: 15.83
Area: 577007
Amount: 2.272934
Amount Units: ug/ml



Manual Integration Results

RT: 15.83
Area: 603215
Amount: 2.651608
Amount Units: ug/ml



Reviewer: LV5D, 28-Apr-2023 19:01:40
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

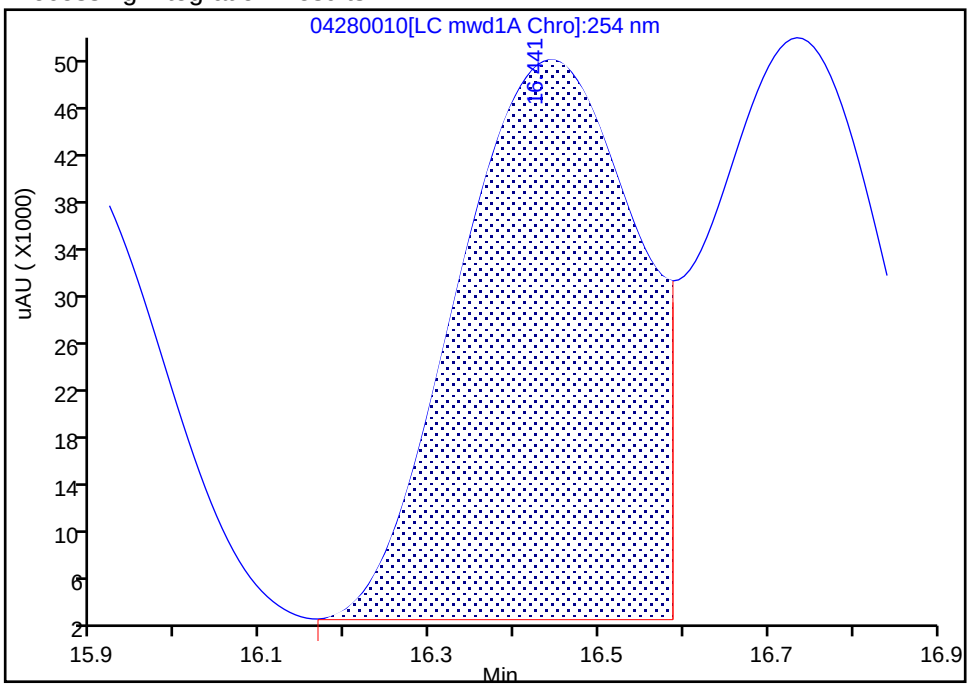
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280010.D
Injection Date: 28-Apr-2023 18:24:11 Instrument ID: CHHPLC_X5
Lims ID: IC INT 9
Client ID:
Operator ID: JZ/JG ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X5_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC mwd1A, 254 nm

17 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

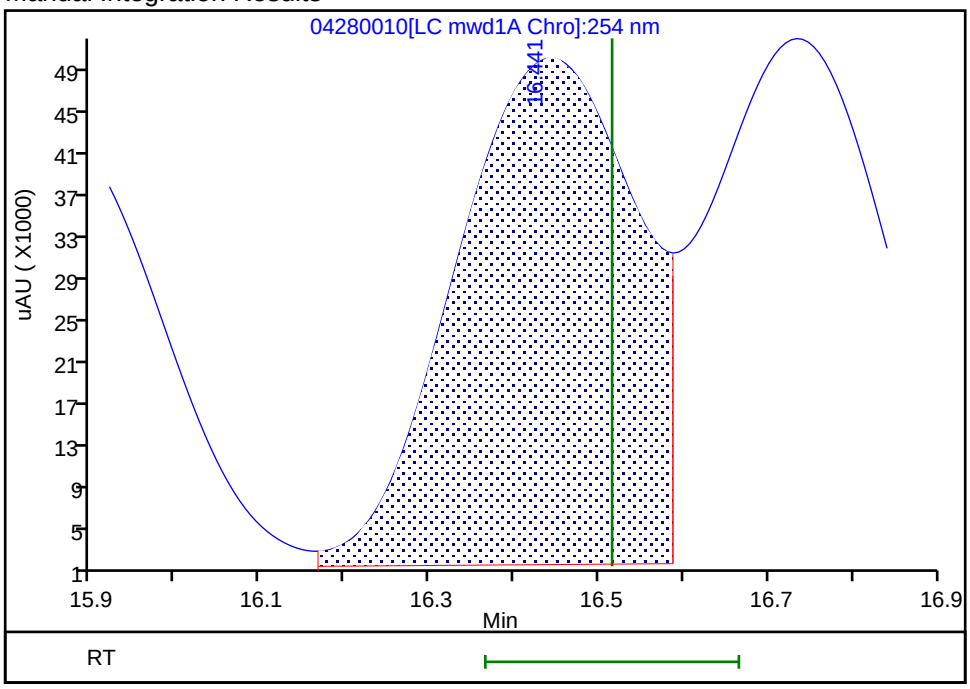
Processing Integration Results

RT: 16.44
Area: 691163
Amount: 2.645631
Amount Units: ug/ml



Manual Integration Results

RT: 16.44
Area: 722940
Amount: 2.457223
Amount Units: ug/ml



Reviewer: LV5D, 28-Apr-2023 19:01:40
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

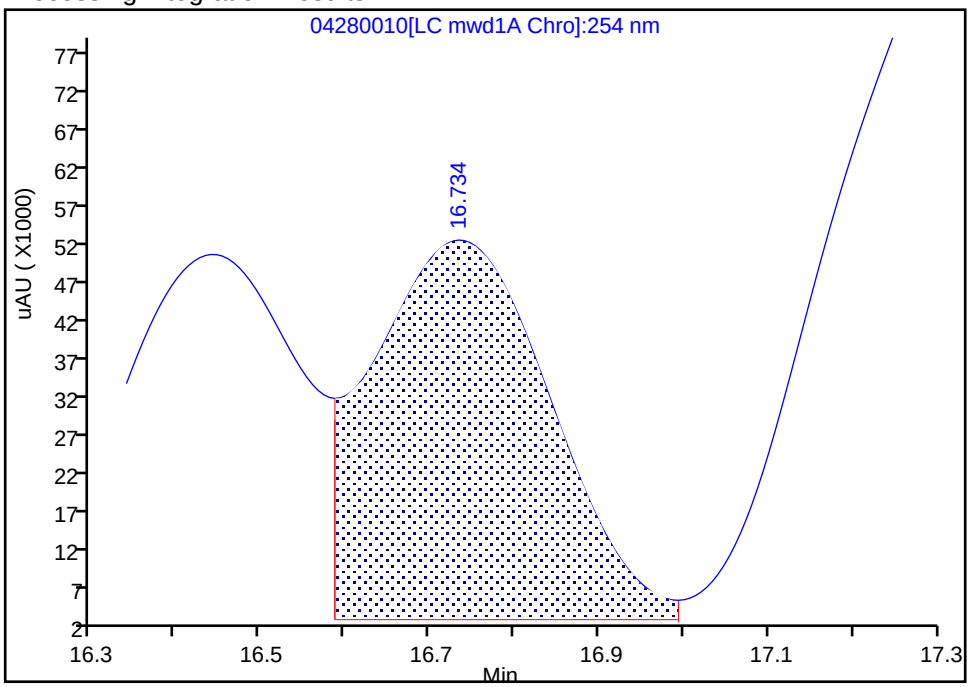
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280010.D				
Injection Date:	28-Apr-2023 18:24:11	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 9				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

18 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

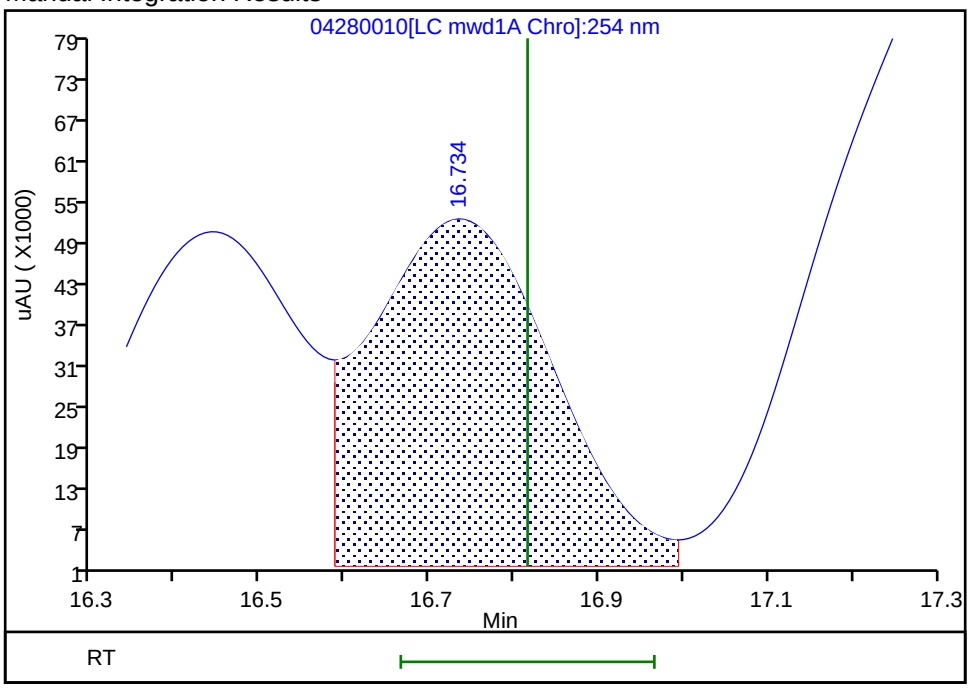
Processing Integration Results

RT: 16.73
Area: 719908
Amount: 2.277668
Amount Units: ug/ml



Manual Integration Results

RT: 16.73
Area: 747102
Amount: 2.535694
Amount Units: ug/ml



Reviewer: LV5D, 28-Apr-2023 19:01:40
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

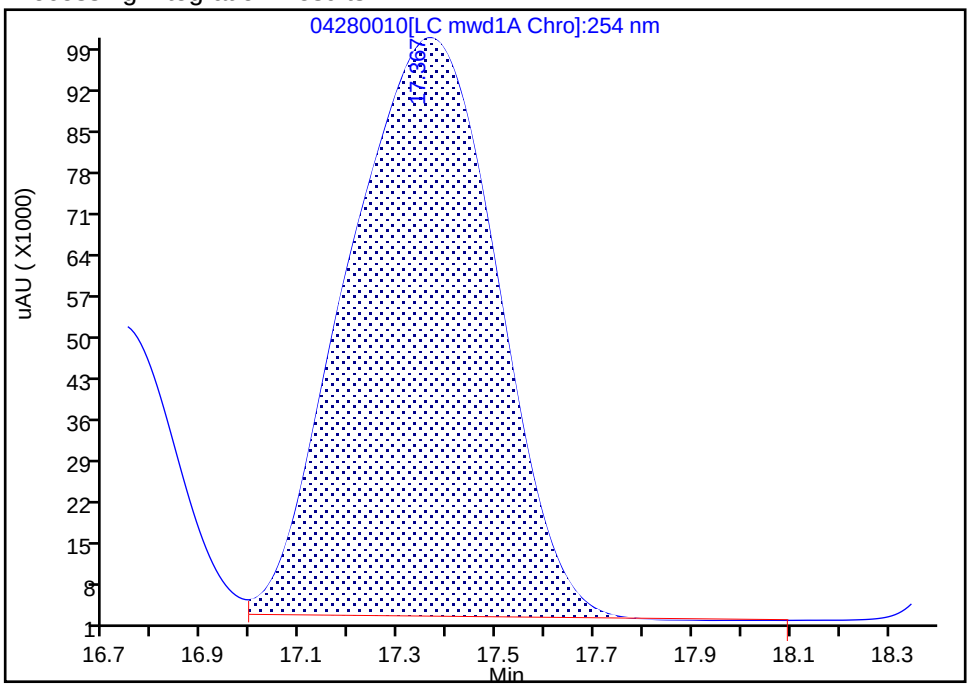
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280010.D				
Injection Date:	28-Apr-2023 18:24:11	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 9				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

20 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

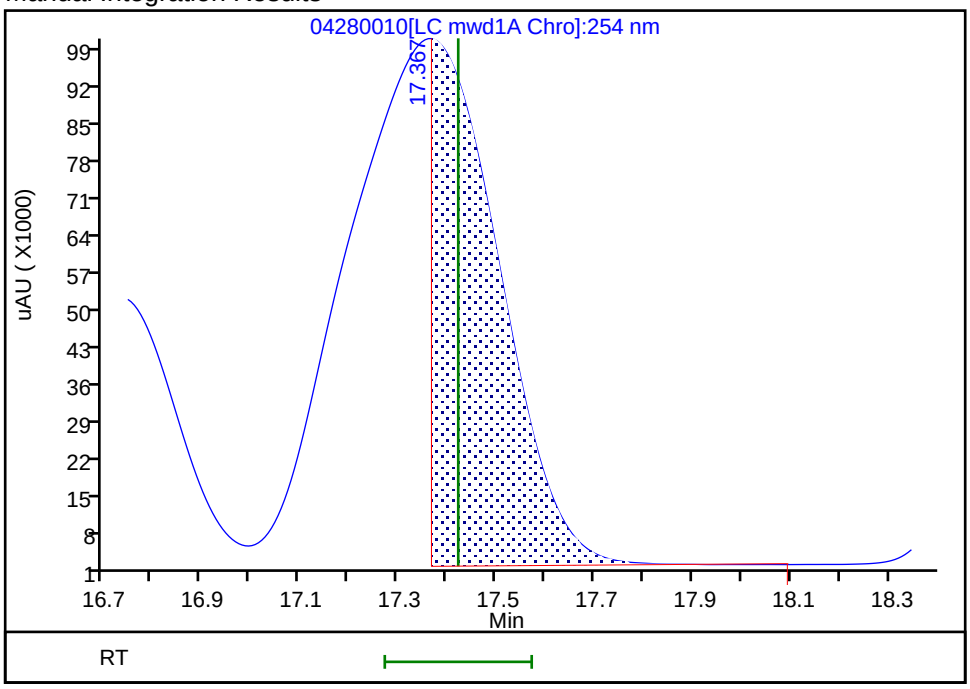
Processing Integration Results

RT: 17.37
Area: 2081660
Amount: 3.645357
Amount Units: ug/ml



Manual Integration Results

RT: 17.37
Area: 946516
Amount: 2.333088
Amount Units: ug/ml



Reviewer: LV5D, 28-Apr-2023 19:01:40

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

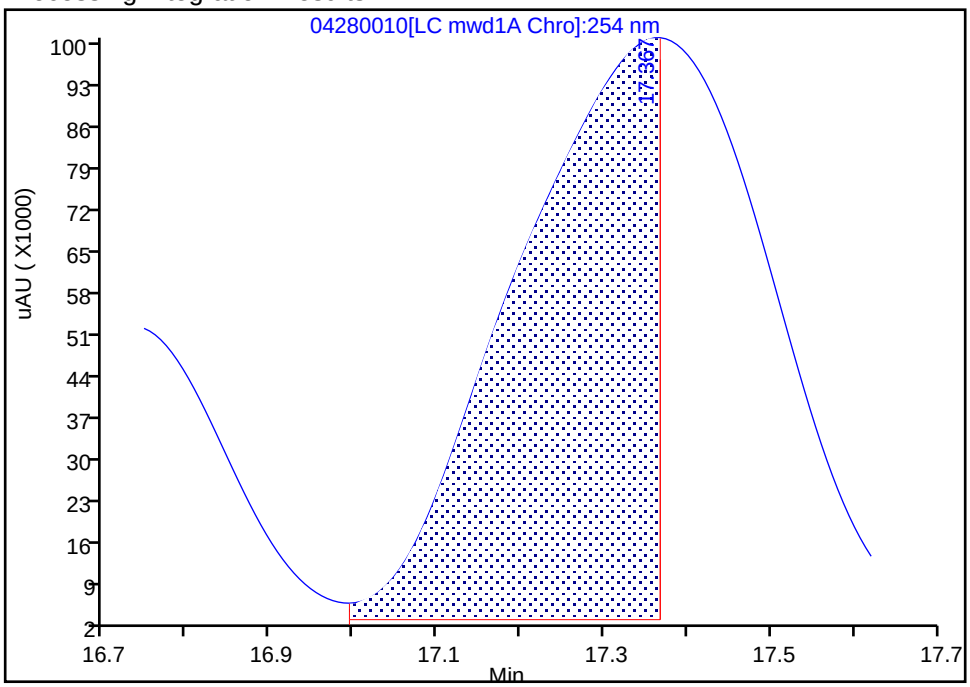
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280010.D				
Injection Date:	28-Apr-2023 18:24:11	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 9				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

19 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

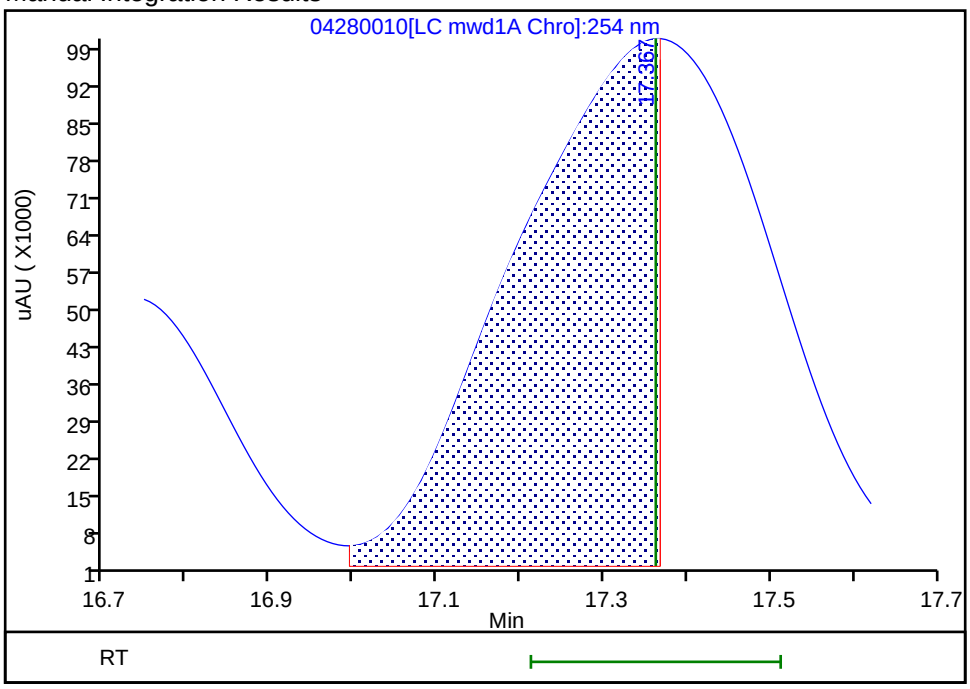
Processing Integration Results

RT: 17.37
Area: 1147839
Amount: 3.846971
Amount Units: ug/ml



Manual Integration Results

RT: 17.37
Area: 1167517
Amount: 2.728229
Amount Units: ug/ml



Reviewer: LV5D, 28-Apr-2023 19:01:40
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

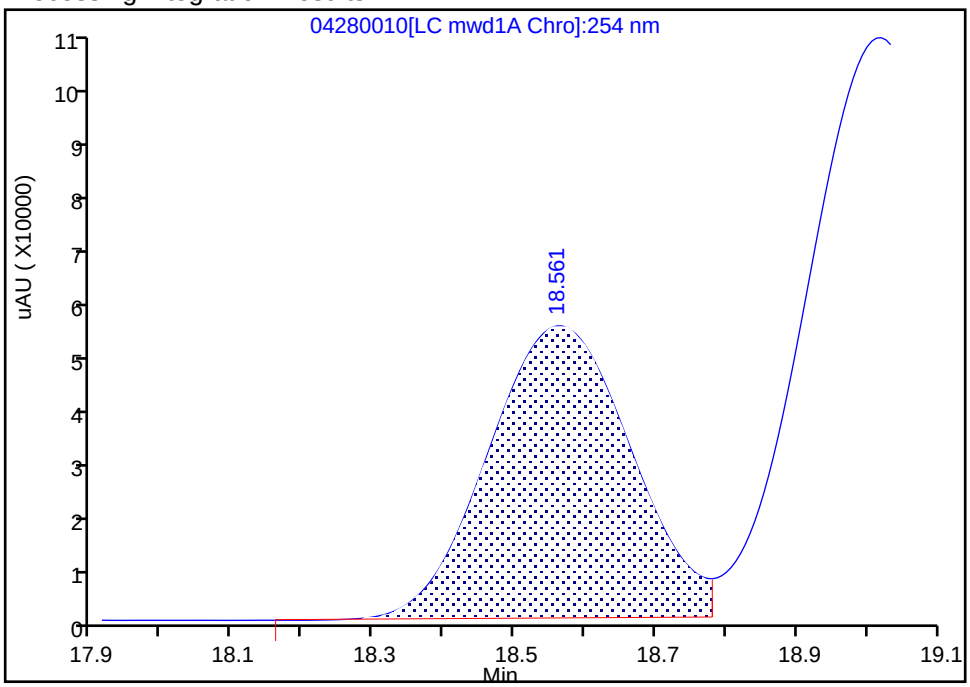
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280010.D				
Injection Date:	28-Apr-2023 18:24:11	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 9				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

21 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

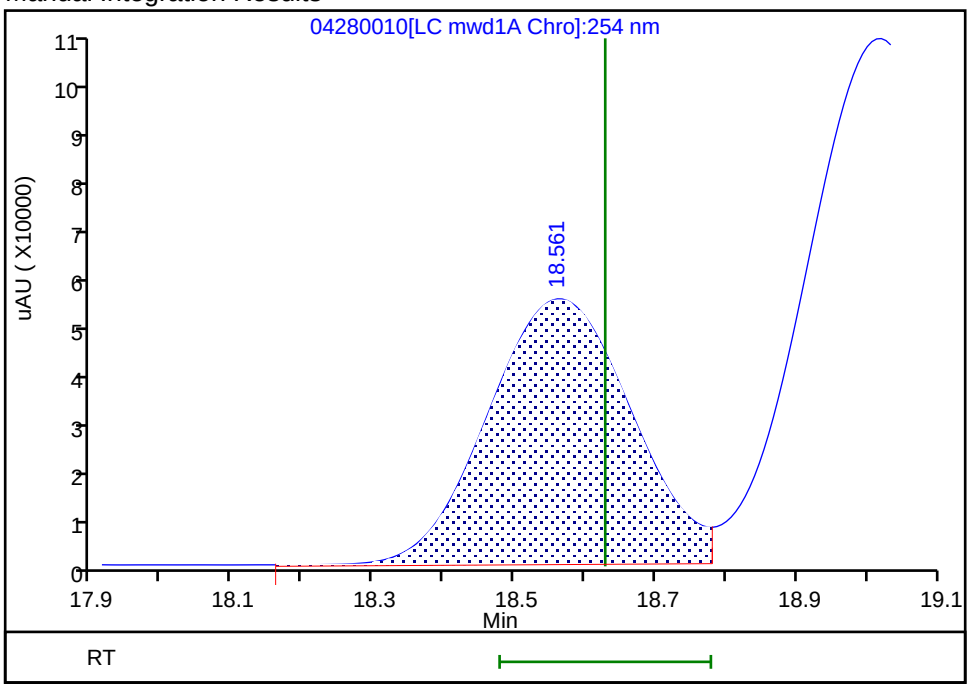
Processing Integration Results

RT: 18.56
Area: 716752
Amount: 2.903314
Amount Units: ug/ml



Manual Integration Results

RT: 18.56
Area: 725476
Amount: 2.487274
Amount Units: ug/ml



Reviewer: LV5D, 28-Apr-2023 19:01:40
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

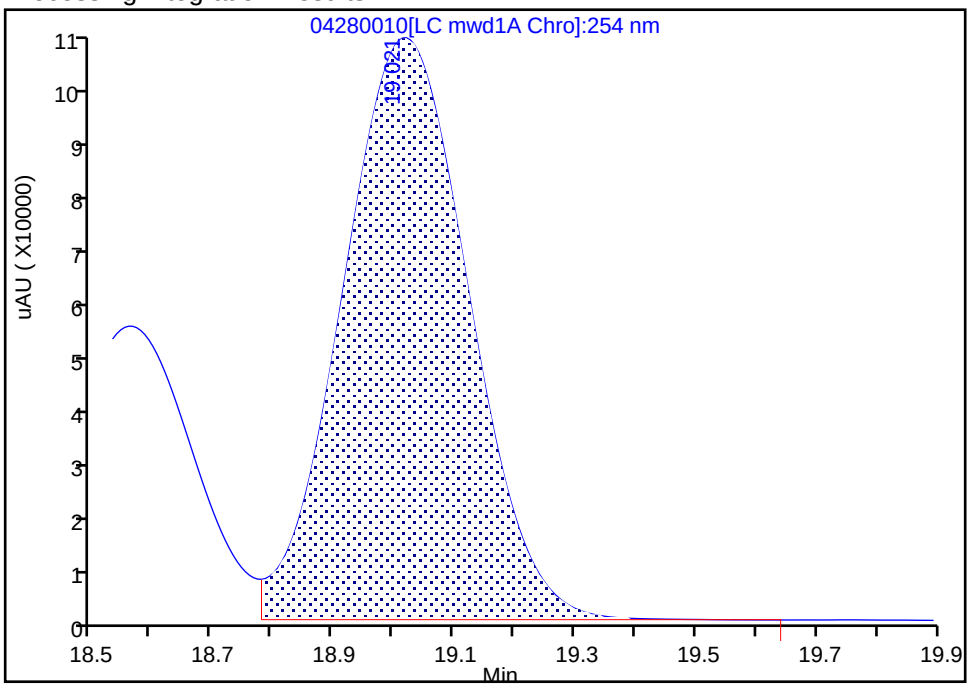
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280010.D				
Injection Date:	28-Apr-2023 18:24:11	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 9				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

22 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

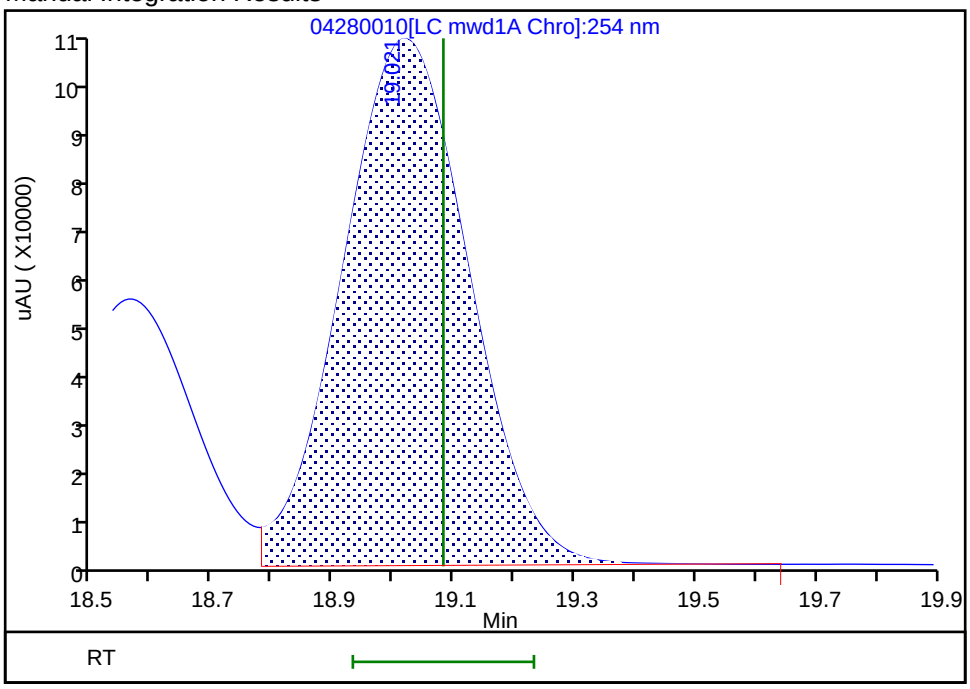
Processing Integration Results

RT: 19.02
Area: 1458826
Amount: 2.601930
Amount Units: ug/ml



Manual Integration Results

RT: 19.02
Area: 1472164
Amount: 2.518831
Amount Units: ug/ml



Reviewer: LV5D, 28-Apr-2023 19:01:40
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280011.D
Lims ID: IC INT 8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 28-Apr-2023 18:59:07 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*sub6

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 29-Apr-2023 13:04:17 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1621

First Level Reviewer: LV5D Date: 28-Apr-2023 20:43:46

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.095	5.115	-0.020	391357	1.00	0.99	
4 DNX	1	5.942	5.955	-0.013	281655	1.00	1.02	
5 HMX	1	6.588	6.595	-0.007	189027	1.00	1.01	
6 MNX	1	7.475	7.489	-0.014	298731	1.17	1.14	
7 2,4,6-Trinitrophenol	1	7.935	8.029	-0.094	165319	1.00	1.03	
8 RDX	1	8.902	8.915	-0.013	221588	1.00	1.02	
9 Nitrobenzene	1	11.462	11.482	-0.020	398454	1.00	1.00	
$ 10 1,2-Dinitrobenzene	1	12.455	12.469	-0.014	276103	1.00	0.9836	
11 3,5-Dinitroaniline	1	14.355	14.355	0.000	460771	1.00	1.04	
12 1,3-Dinitrobenzene	1	14.615	14.622	-0.007	630835	1.00	1.00	
13 Nitroglycerin	2	15.175	15.182	-0.007	1346659	10.0	10.0	
14 o-Nitrotoluene	1	15.722	15.729	-0.007	250892	1.00	1.02	
16 p-Nitrotoluene	1	15.948	15.955	-0.007	230951	1.00	1.02	
17 4-Amino-2,6-dinitrotoluene	1	16.528	16.515	0.013	292369	1.00	0.99	
18 m-Nitrotoluene	1	16.828	16.815	0.013	292277	1.00	0.99	
19 2-Amino-4,6-dinitrotoluene	1	17.402	17.362	0.040	426004	1.00	1.00	Ma
20 1,3,5-Trinitrobenzene	1	17.442	17.422	0.020	417113	1.00	1.03	M
21 2,6-Dinitrotoluene	1	18.675	18.629	0.046	290390	1.00	1.00	
22 2,4-Dinitrotoluene	1	19.128	19.082	0.046	585209	1.00	1.00	
23 Tetryl	1	22.442	22.389	0.053	278494	1.00	0.9781	
24 2,4,6-Trinitrotoluene	1	23.228	23.182	0.046	430103	1.00	0.9800	
25 PETN	2	24.508	24.475	0.033	1419730	10.0	9.86	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

8330IntermStk_00076	Amount Added: 100.00	Units: uL
8330 DMT_00013	Amount Added: 50.00	Units: uL

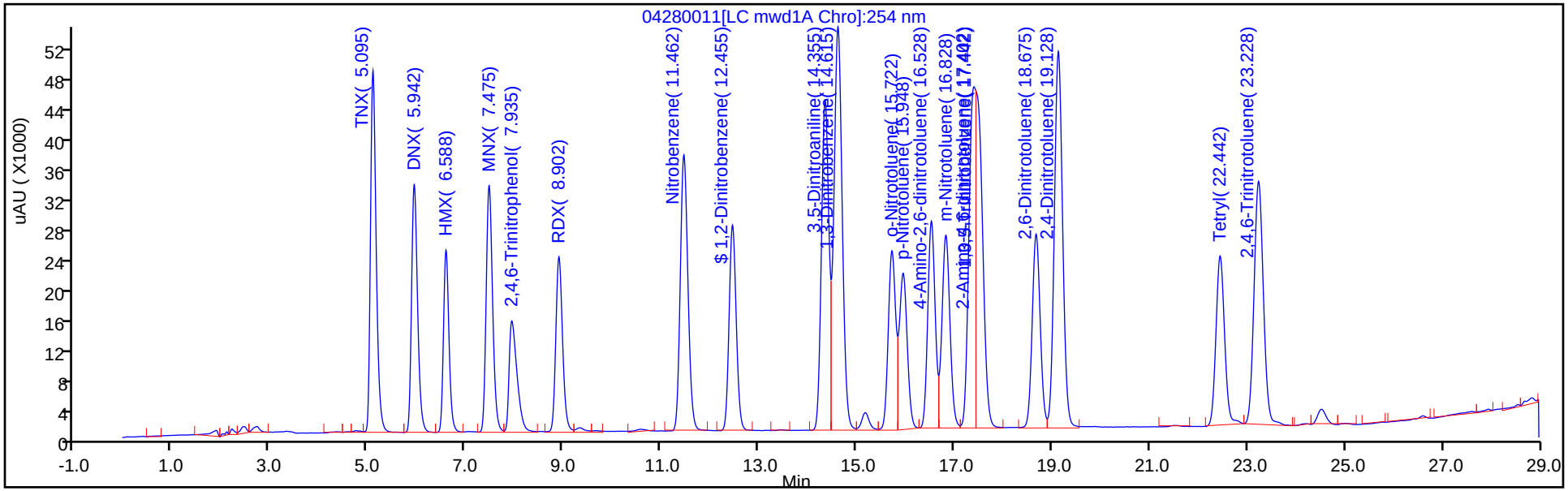
Report Date: 29-Apr-2023 13:04:17 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

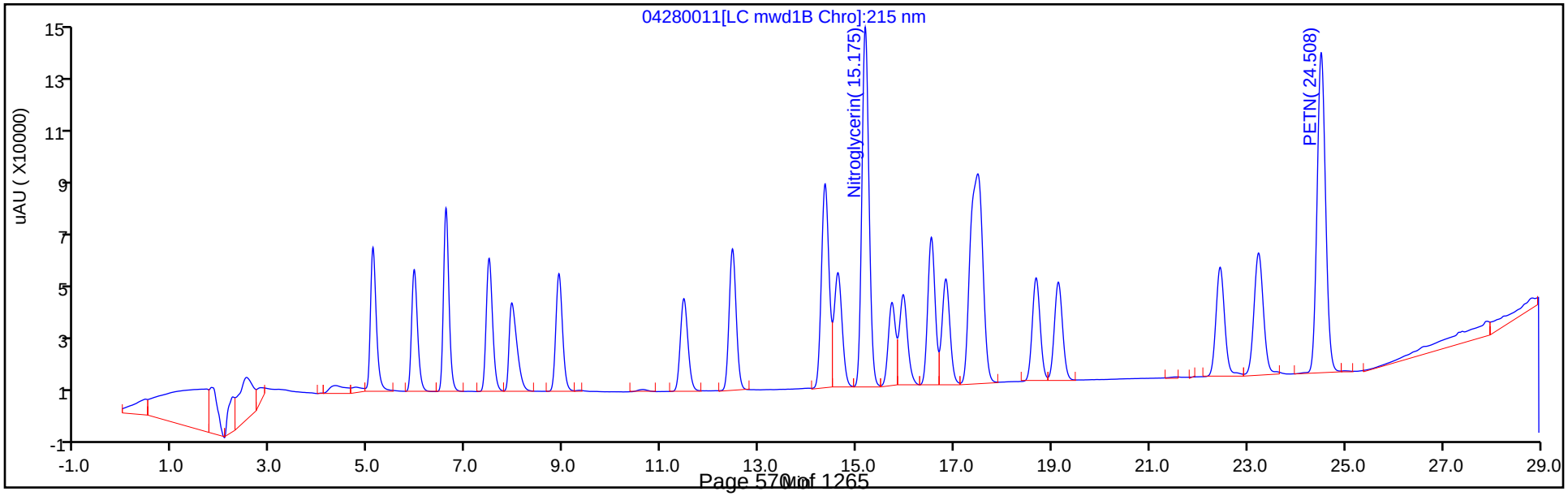
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280011.D

Injection Date:	28-Apr-2023 18:59:07	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



Manual Integration/User Assign Peak Report

Eurofins Denver

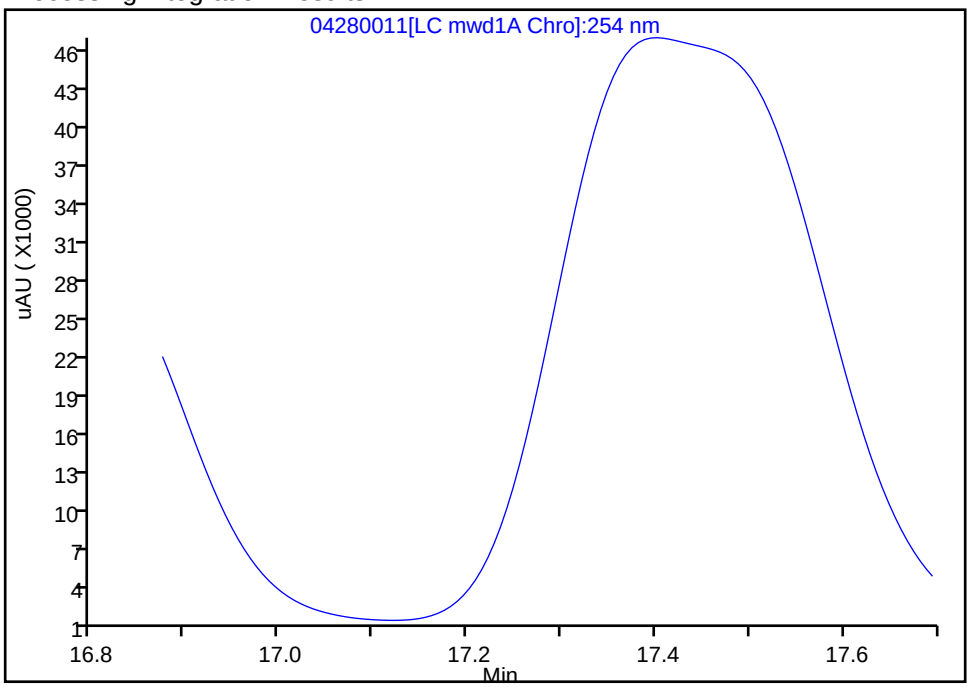
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280011.D				
Injection Date:	28-Apr-2023 18:59:07	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 8				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

19 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

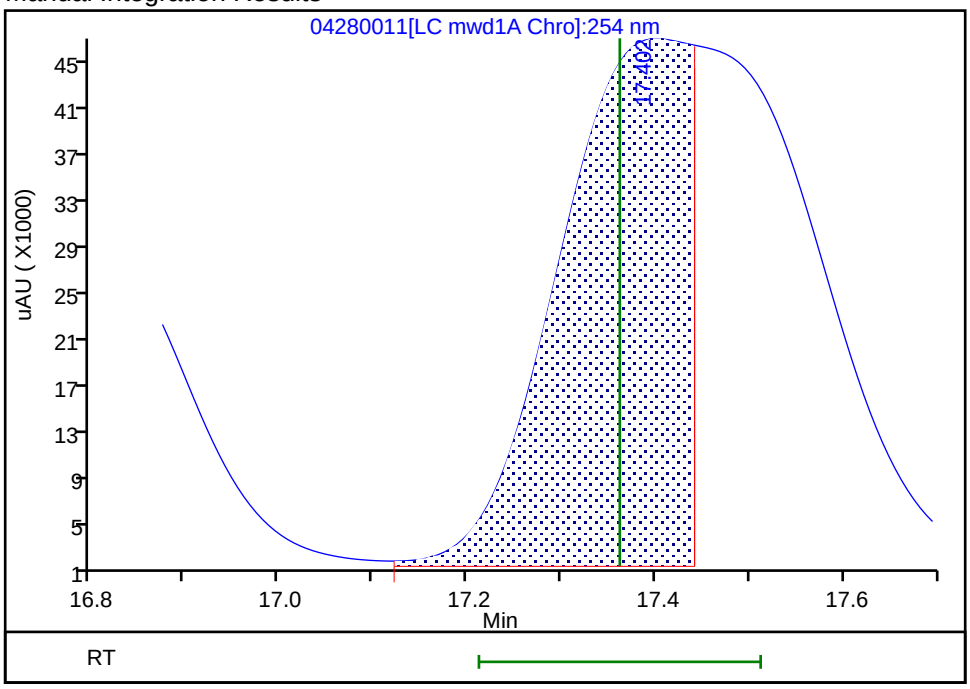
Not Detected
Expected RT: 17.36

Processing Integration Results



Manual Integration Results

RT: 17.40
Area: 426004
Amount: 0.995477
Amount Units: ug/ml



Reviewer: LV5D, 28-Apr-2023 20:43:43
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

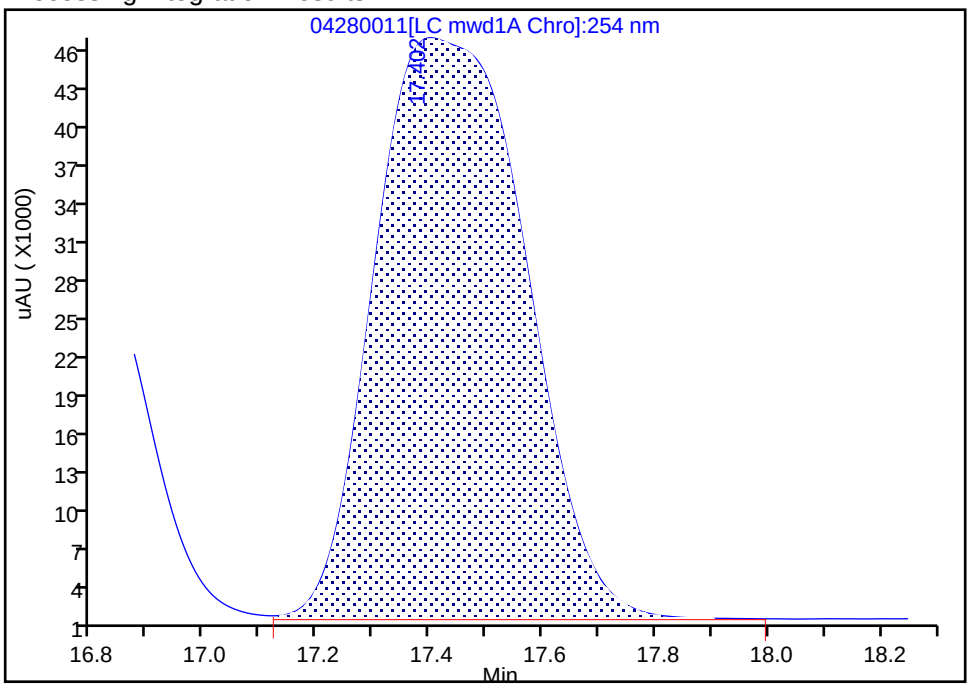
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280011.D				
Injection Date:	28-Apr-2023 18:59:07	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 8				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

20 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

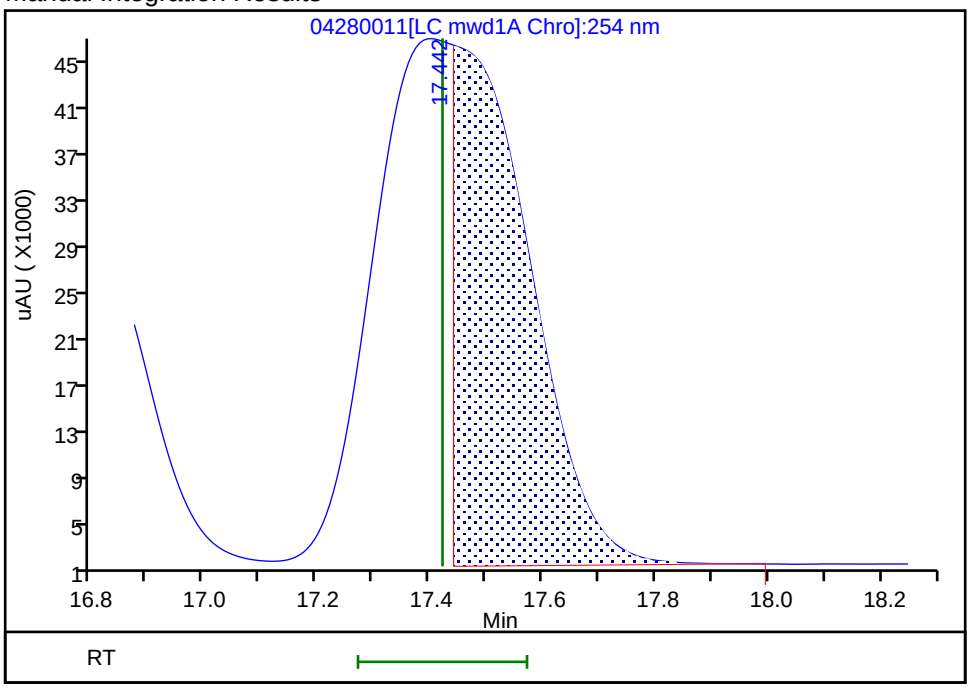
Processing Integration Results

RT: 17.40
Area: 843108
Amount: 1.537916
Amount Units: ug/ml



Manual Integration Results

RT: 17.44
Area: 417113
Amount: 1.028151
Amount Units: ug/ml



Reviewer: LV5D, 28-Apr-2023 20:43:40

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280012.D
Lims ID: IC INT 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 28-Apr-2023 19:34:01 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*sub6

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 29-Apr-2023 13:04:17 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1621

First Level Reviewer: LV5D Date: 28-Apr-2023 20:44:11

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.096	5.115	-0.019	276939	0.7021	0.7023	
4 DNX	1	5.943	5.955	-0.012	198949	0.7007	0.7180	
5 HMX	1	6.589	6.595	-0.006	131068	0.7000	0.7024	
6 MNX	1	7.476	7.489	-0.013	211518	0.8169	0.8065	
7 2,4,6-Trinitrophenol	1	7.956	8.029	-0.073	114679	0.7000	0.7142	
8 RDX	1	8.903	8.915	-0.012	153380	0.7000	0.7082	
9 Nitrobenzene	1	11.462	11.482	-0.020	276577	0.7000	0.6935	
$ 10 1,2-Dinitrobenzene	1	12.442	12.469	-0.027	191173	0.7000	0.6811	
11 3,5-Dinitroaniline	1	14.329	14.355	-0.026	322983	0.7000	0.7251	
12 1,3-Dinitrobenzene	1	14.596	14.622	-0.026	431248	0.7000	0.6852	
13 Nitroglycerin	2	15.149	15.182	-0.033	929634	7.00	6.90	
14 o-Nitrotoluene	1	15.696	15.729	-0.033	174353	0.7000	0.7060	
16 p-Nitrotoluene	1	15.922	15.955	-0.033	159520	0.7000	0.7012	
17 4-Amino-2,6-dinitrotoluene	1	16.482	16.515	-0.033	201729	0.7000	0.6857	
18 m-Nitrotoluene	1	16.782	16.815	-0.033	203644	0.7000	0.6912	
19 2-Amino-4,6-dinitrotoluene	1	17.329	17.362	-0.033	294250	0.7000	0.6876	M
20 1,3,5-Trinitrobenzene	1	17.389	17.422	-0.033	289774	0.7000	0.7143	Ma
21 2,6-Dinitrotoluene	1	18.622	18.629	-0.007	201554	0.7000	0.6910	
22 2,4-Dinitrotoluene	1	19.076	19.082	-0.006	406447	0.7000	0.6954	
23 Tetryl	1	22.389	22.389	0.000	192352	0.7000	0.6756	
24 2,4,6-Trinitrotoluene	1	23.183	23.182	0.001	294801	0.7000	0.6717	
25 PETN	2	24.469	24.475	-0.006	992519	7.00	6.90	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

8330IntermStk_00076	Amount Added:	70.00	Units: uL
8330 DMT_00013	Amount Added:	35.00	Units: uL

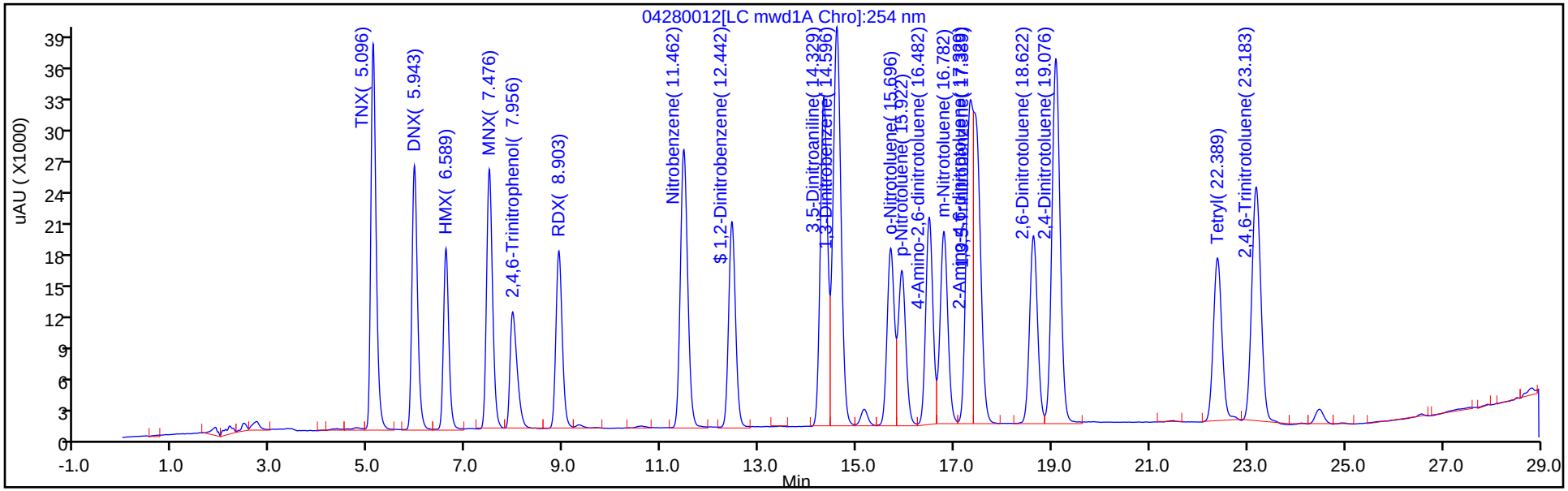
Report Date: 29-Apr-2023 13:04:17 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

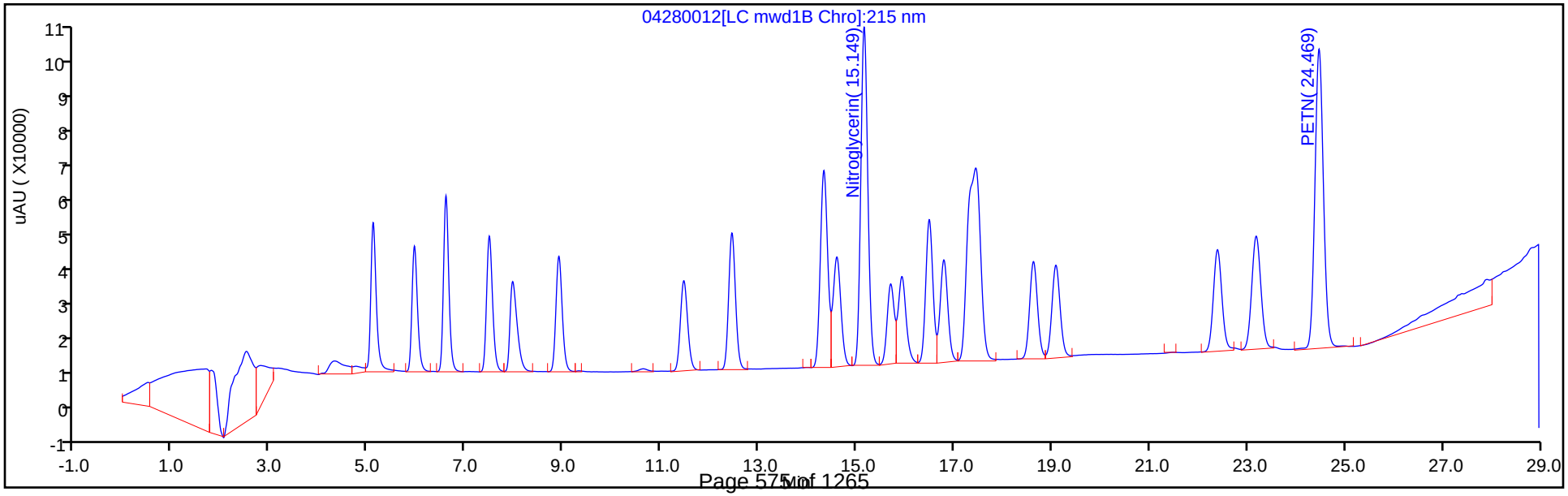
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280012.D

Injection Date:	28-Apr-2023 19:34:01	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



Manual Integration/User Assign Peak Report

Eurofins Denver

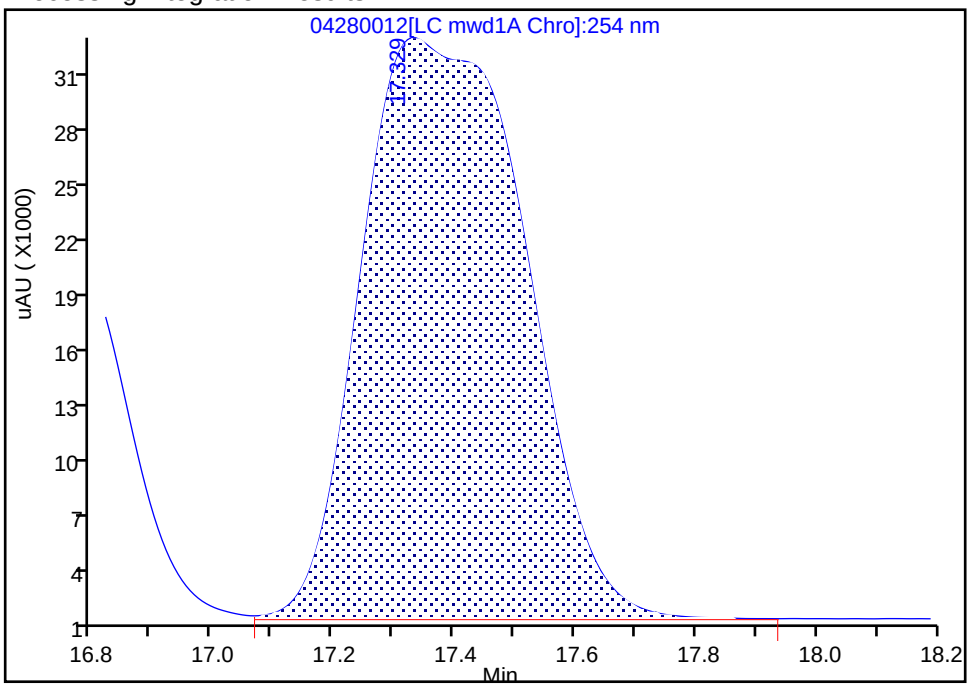
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280012.D				
Injection Date:	28-Apr-2023 19:34:01	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 7				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

19 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

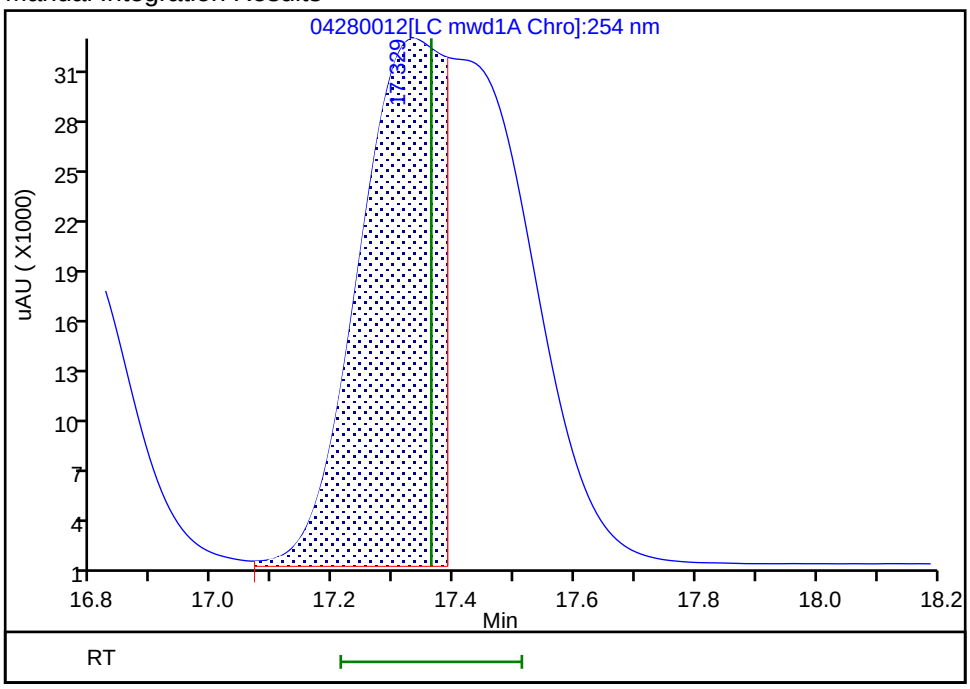
Processing Integration Results

RT: 17.33
Area: 584005
Amount: 1.540308
Amount Units: ug/ml



Manual Integration Results

RT: 17.33
Area: 294250
Amount: 0.687597
Amount Units: ug/ml



Reviewer: LV5D, 28-Apr-2023 20:43:51

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

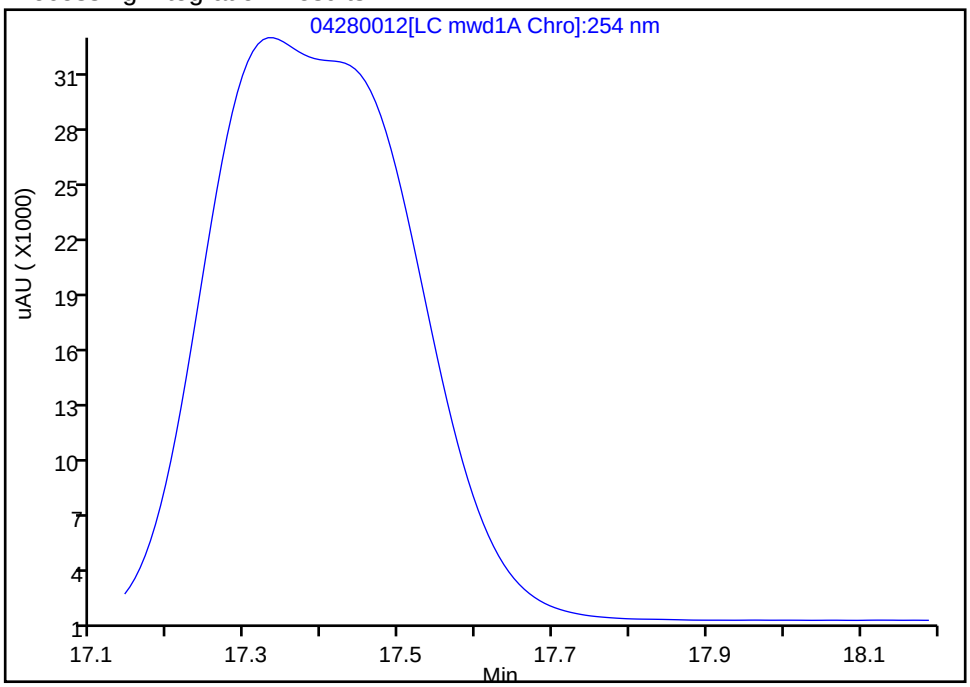
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280012.D				
Injection Date:	28-Apr-2023 19:34:01	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 7				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

20 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

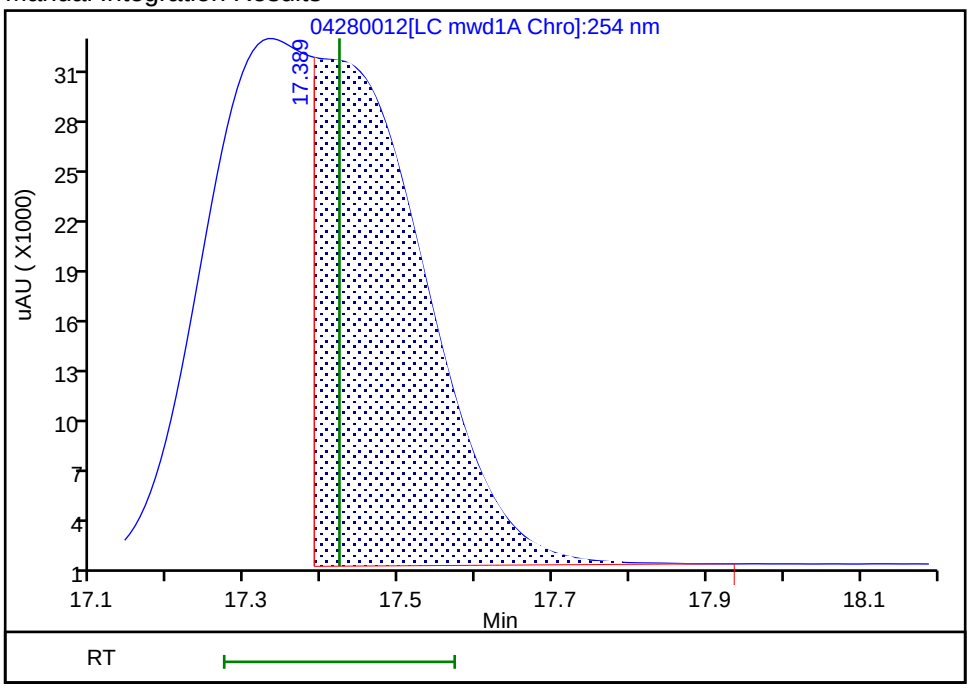
Not Detected
Expected RT: 17.42

Processing Integration Results



Manual Integration Results

RT: 17.39
Area: 289774
Amount: 0.714270
Amount Units: ug/ml



Reviewer: LV5D, 28-Apr-2023 20:43:53
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280013.D
Lims ID: IC INT 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 28-Apr-2023 20:08:59 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*sub6

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 29-Apr-2023 13:04:18 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1621

First Level Reviewer: LV5D Date: 28-Apr-2023 20:52:44

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.108	5.115	-0.007	147763	0.4012	0.3747	
4 DNX	1	5.954	5.955	-0.001	107420	0.4004	0.3877	
5 HMX	1	6.594	6.595	-0.001	67993	0.4000	0.3622	
6 MNX	1	7.488	7.489	-0.001	114487	0.4668	0.4365	
7 2,4,6-Trinitrophenol	1	8.008	8.029	-0.021	59892	0.4000	0.3714	
8 RDX	1	8.908	8.915	-0.007	79113	0.4000	0.3638	
9 Nitrobenzene	1	11.461	11.482	-0.021	141679	0.4000	0.3552	
$ 10 1,2-Dinitrobenzene	1	12.448	12.469	-0.021	98279	0.4000	0.3501	
11 3,5-Dinitroaniline	1	14.334	14.355	-0.021	165924	0.4000	0.3719	
12 1,3-Dinitrobenzene	1	14.601	14.622	-0.021	221798	0.4000	0.3524	
13 Nitroglycerin	2	15.154	15.182	-0.028	480119	4.00	3.56	
14 o-Nitrotoluene	1	15.708	15.729	-0.021	90266	0.4000	0.3655	
16 p-Nitrotoluene	1	15.934	15.955	-0.021	81428	0.4000	0.3579	
17 4-Amino-2,6-dinitrotoluene	1	16.501	16.515	-0.014	104292	0.4000	0.3545	
18 m-Nitrotoluene	1	16.801	16.815	-0.014	104338	0.4000	0.3541	
19 2-Amino-4,6-dinitrotoluene	1	17.354	17.362	-0.008	158919	0.4000	0.3714	Ma
20 1,3,5-Trinitrobenzene	1	17.414	17.422	-0.008	141795	0.4000	0.3495	Ma
21 2,6-Dinitrotoluene	1	18.628	18.629	-0.001	103148	0.4000	0.3536	
22 2,4-Dinitrotoluene	1	19.081	19.082	-0.001	207937	0.4000	0.3558	
23 Tetryl	1	22.361	22.389	-0.028	98615	0.4000	0.3463	
24 2,4,6-Trinitrotoluene	1	23.154	23.182	-0.028	152188	0.4000	0.3468	
25 PETN	2	24.428	24.475	-0.047	512590	4.00	3.56	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

8330IntermStk_00076	Amount Added:	40.00	Units: uL
8330 DMT_00013	Amount Added:	20.00	Units: uL

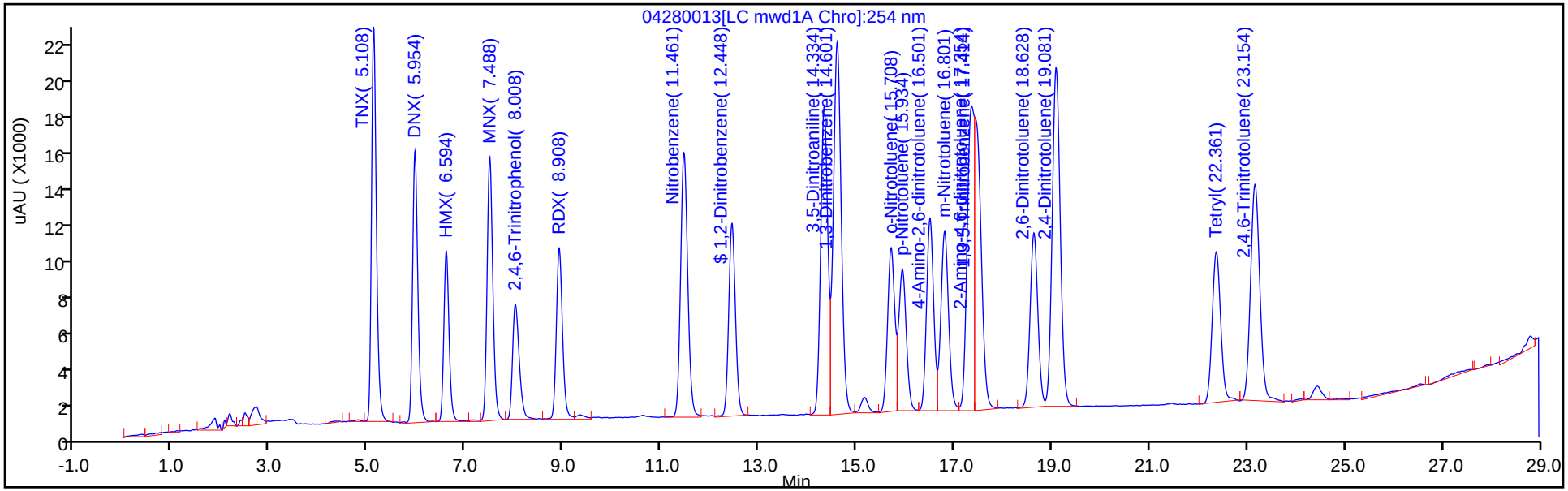
Report Date: 29-Apr-2023 13:04:18 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

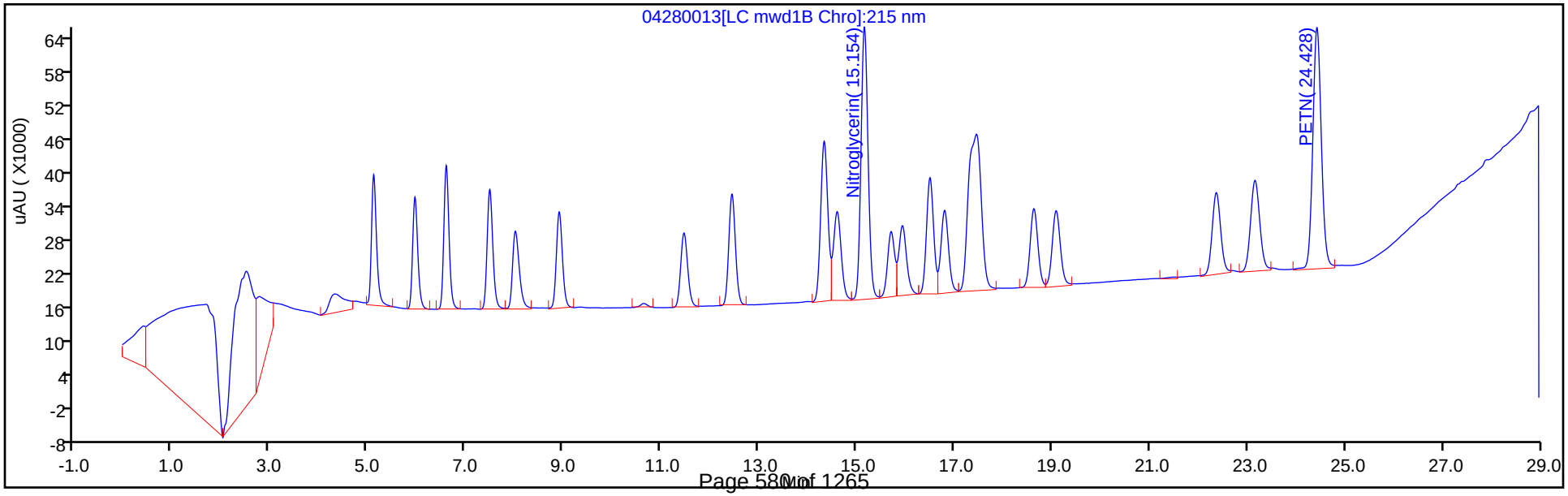
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280013.D

Injection Date:	28-Apr-2023 20:08:59	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



Manual Integration/User Assign Peak Report

Eurofins Denver

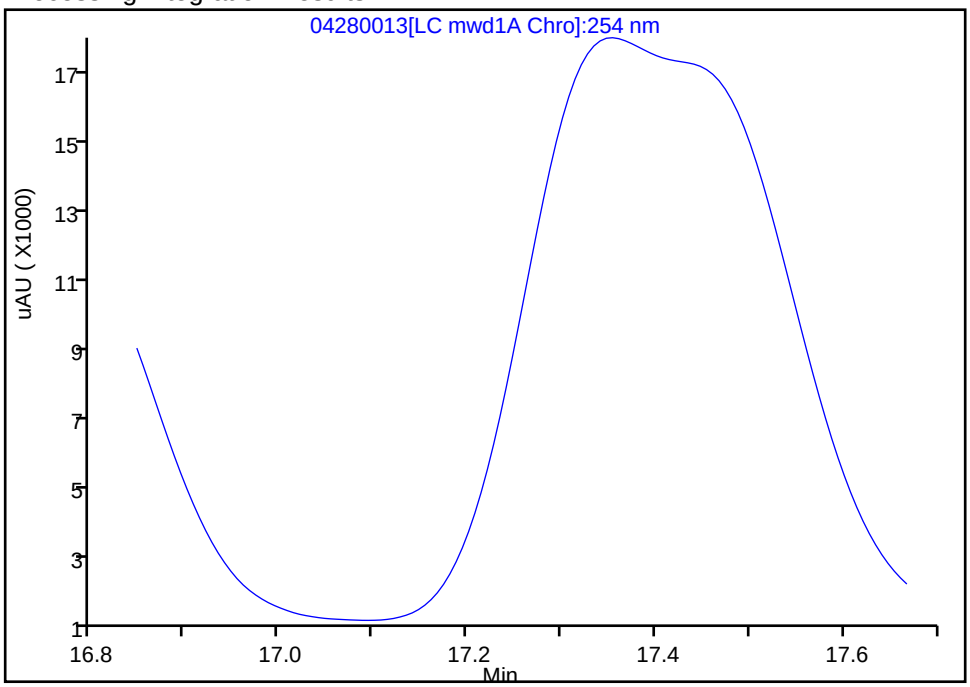
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280013.D				
Injection Date:	28-Apr-2023 20:08:59	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 6				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

19 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

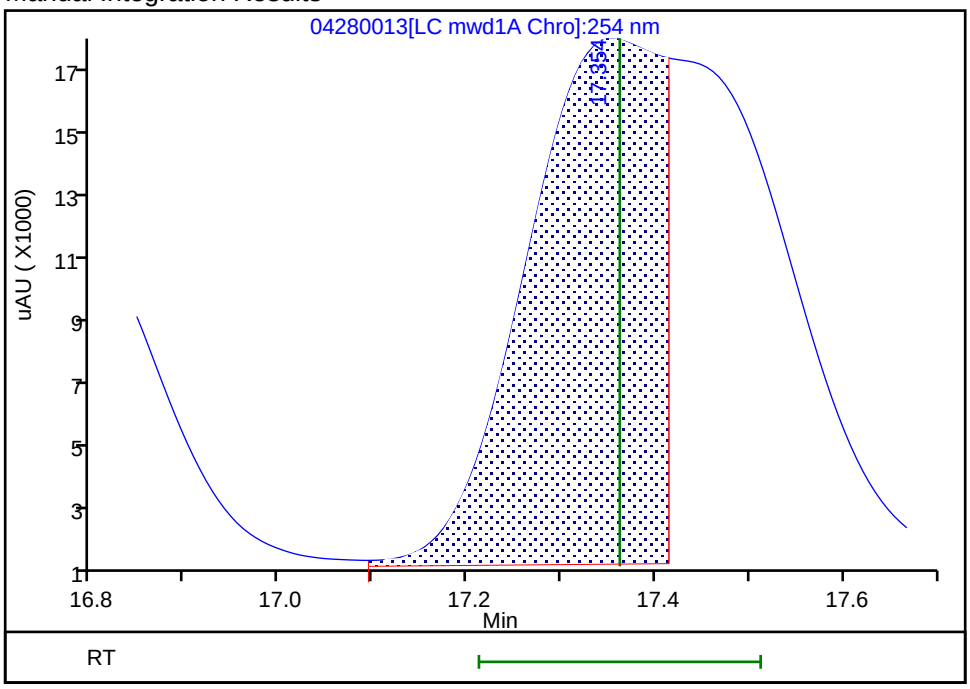
Not Detected
Expected RT: 17.36

Processing Integration Results



Manual Integration Results

RT: 17.35
Area: 158919
Amount: 0.371359
Amount Units: ug/ml



Reviewer: LV5D, 28-Apr-2023 20:52:42
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

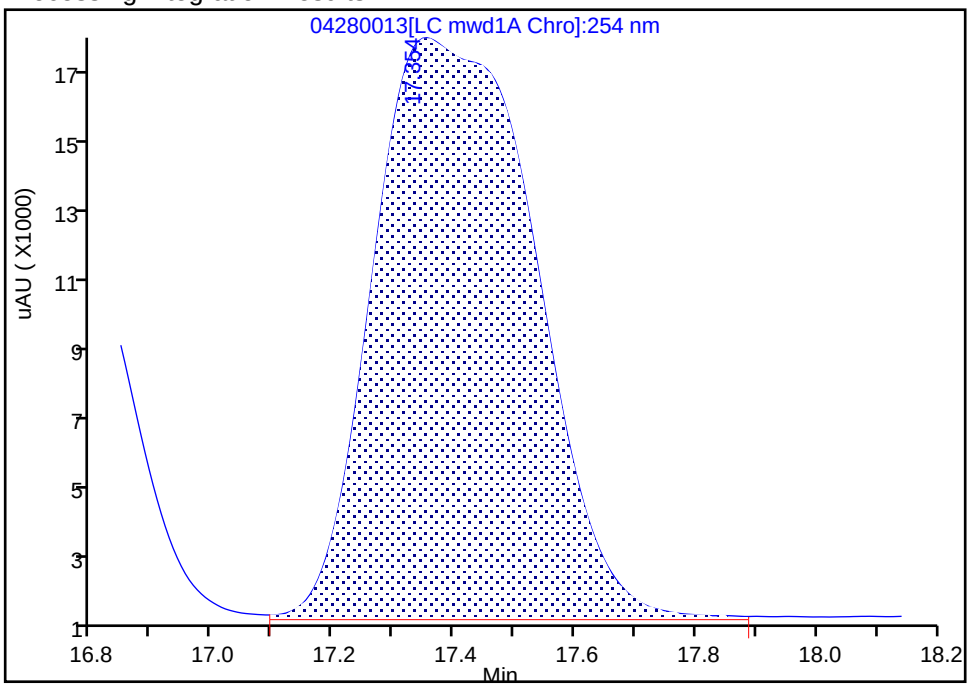
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280013.D				
Injection Date:	28-Apr-2023 20:08:59	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 6				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

20 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

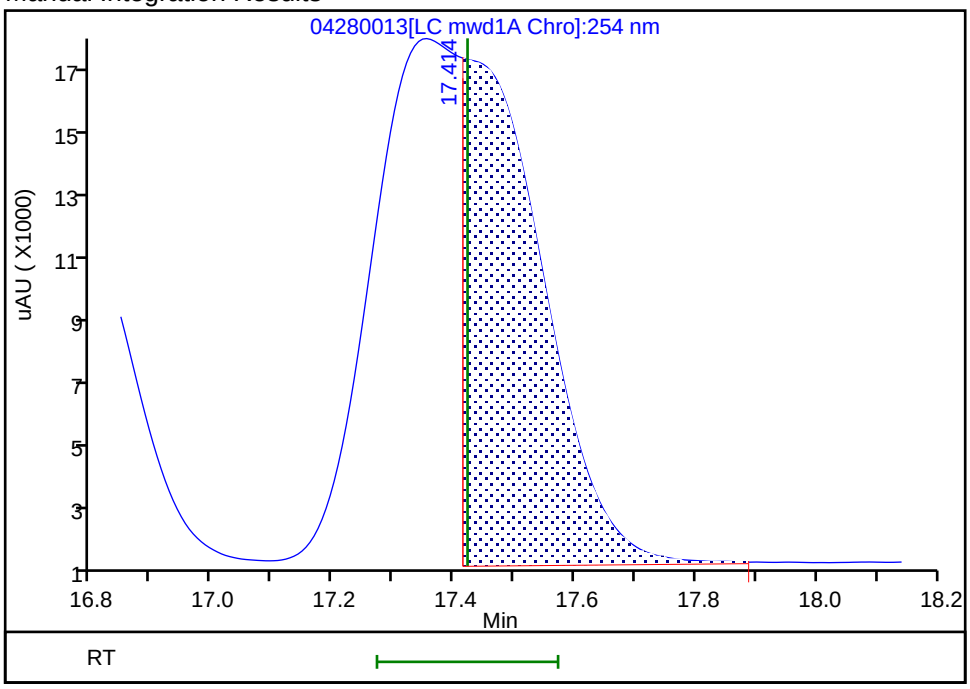
Processing Integration Results

RT: 17.35
Area: 300702
Amount: 0.613228
Amount Units: ug/ml



Manual Integration Results

RT: 17.41
Area: 141795
Amount: 0.349514
Amount Units: ug/ml



Reviewer: LV5D, 28-Apr-2023 20:52:40

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280014.D
Lims ID: IC INT 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 28-Apr-2023 20:43:54 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*sub6

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 29-Apr-2023 13:04:18 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1621

First Level Reviewer: LV5D Date: 29-Apr-2023 10:22:21

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.115	5.115	0.000	86123	0.2508	0.2184	
4 DNX	1	5.955	5.955	0.000	62056	0.2503	0.2240	
5 HMX	1	6.595	6.595	0.000	46110	0.2500	0.2442	
6 MNX	1	7.489	7.489	0.000	66549	0.2918	0.2537	
7 2,4,6-Trinitrophenol	1	8.029	8.029	0.000	40202	0.2500	0.2481	
8 RDX	1	8.915	8.915	0.000	53643	0.2500	0.2456	
9 Nitrobenzene	1	11.482	11.482	0.000	96681	0.2500	0.2424	
$ 10 1,2-Dinitrobenzene	1	12.469	12.469	0.000	67346	0.2500	0.2399	
11 3,5-Dinitroaniline	1	14.355	14.355	0.000	113054	0.2500	0.2529	
12 1,3-Dinitrobenzene	1	14.622	14.622	0.000	152658	0.2500	0.2426	
13 Nitroglycerin	2	15.182	15.182	0.000	327195	2.50	2.43	
14 o-Nitrotoluene	1	15.729	15.729	0.000	60674	0.2500	0.2457	
16 p-Nitrotoluene	1	15.955	15.955	0.000	56555	0.2500	0.2486	
17 4-Amino-2,6-dinitrotoluene	1	16.515	16.515	0.000	71678	0.2500	0.2436	
18 m-Nitrotoluene	1	16.815	16.815	0.000	71041	0.2500	0.2411	
19 2-Amino-4,6-dinitrotoluene	1	17.362	17.362	0.000	108505	0.2500	0.2536	M
20 1,3,5-Trinitrobenzene	1	17.422	17.422	0.000	98168	0.2500	0.2420	M
21 2,6-Dinitrotoluene	1	18.629	18.629	0.000	70868	0.2500	0.2430	
22 2,4-Dinitrotoluene	1	19.082	19.082	0.000	143098	0.2500	0.2448	
23 Tetryl	1	22.389	22.389	0.000	68327	0.2500	0.2400	
24 2,4,6-Trinitrotoluene	1	23.182	23.182	0.000	104561	0.2500	0.2382	
25 PETN	2	24.475	24.475	0.000	351913	2.50	2.44	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00076	Amount Added:	25.00	Units: uL
8330 DMT_00013	Amount Added:	12.50	Units: uL

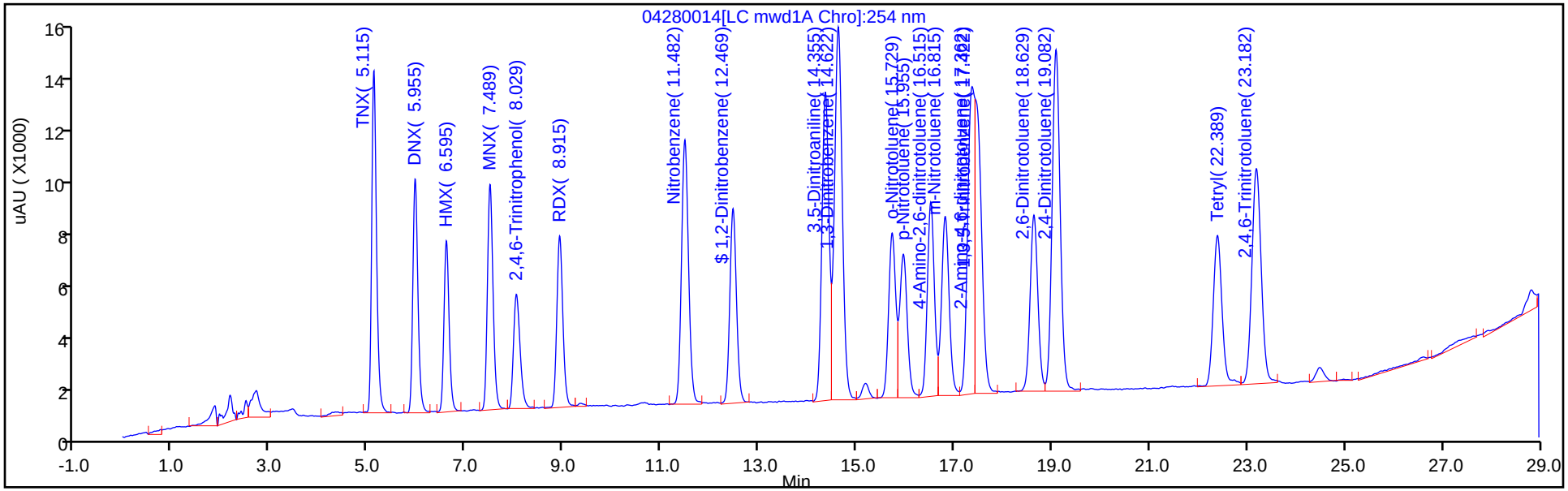
Report Date: 29-Apr-2023 13:04:18 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

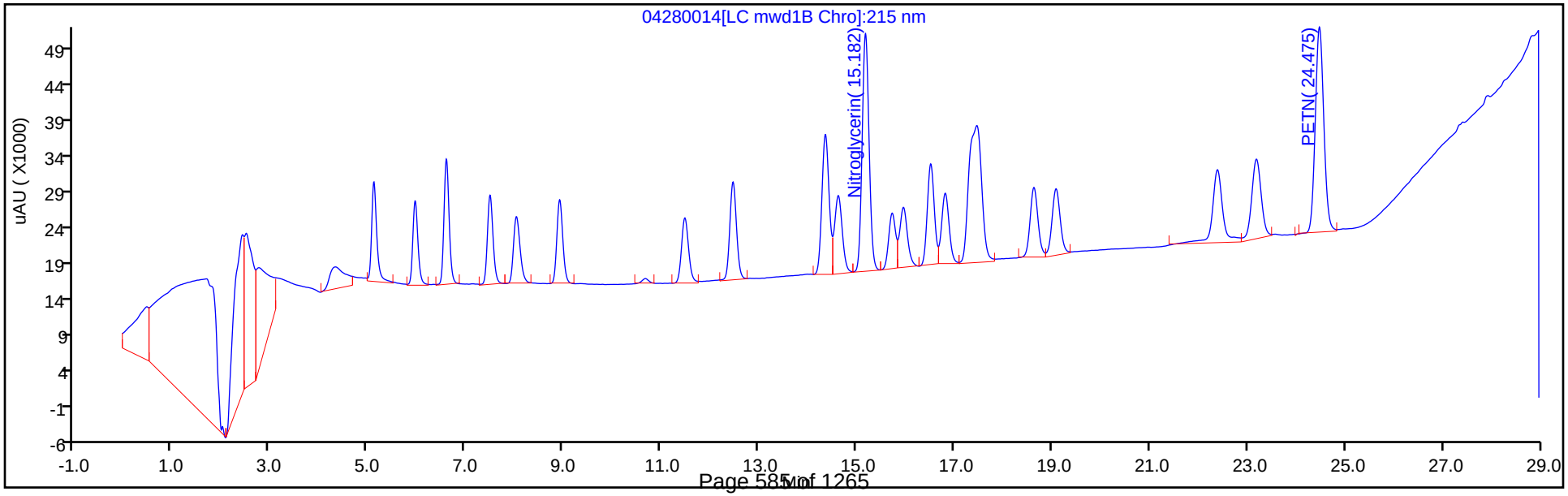
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280014.D

Injection Date:	28-Apr-2023 20:43:54	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



Manual Integration/User Assign Peak Report

Eurofins Denver

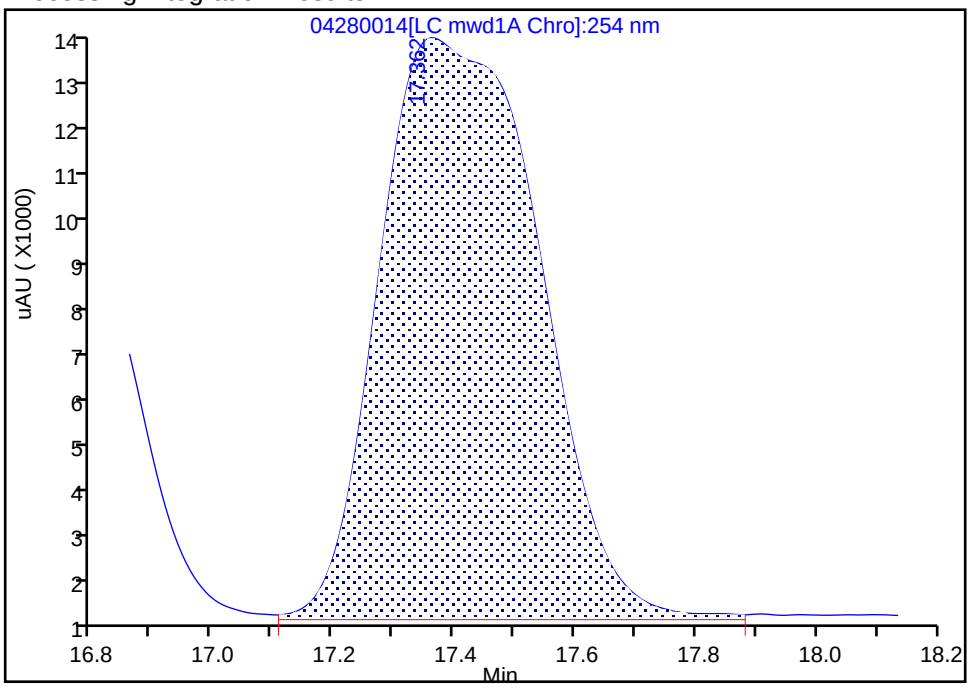
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280014.D				
Injection Date:	28-Apr-2023 20:43:54	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 5				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	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

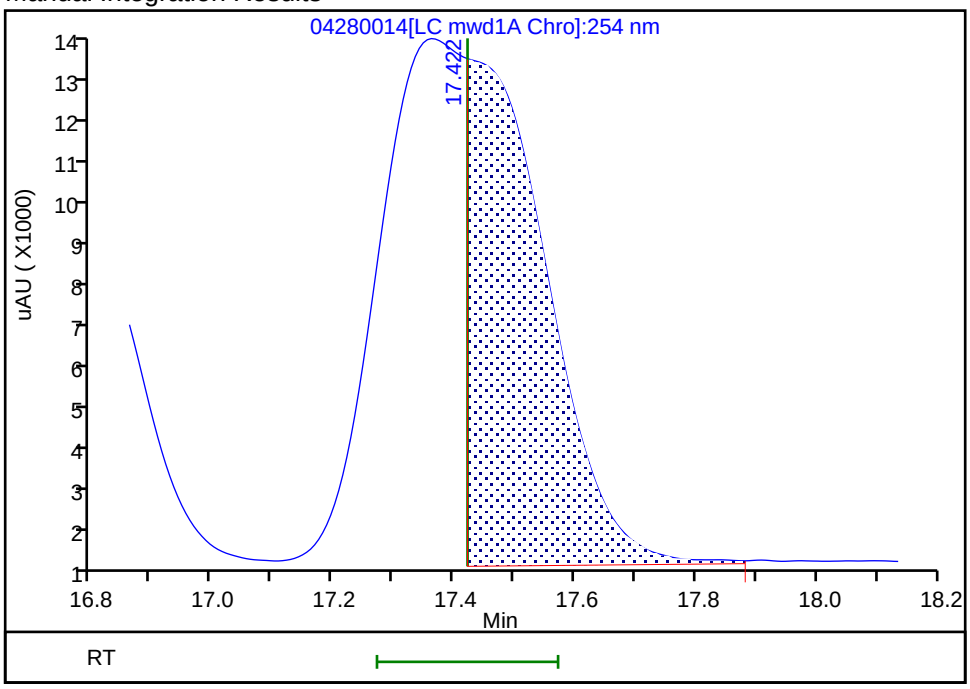
Processing Integration Results

RT: 17.36
Area: 206659
Amount: 0.382644
Amount Units: ug/ml



Manual Integration Results

RT: 17.42
Area: 98168
Amount: 0.241976
Amount Units: ug/ml



Reviewer: LV5D, 29-Apr-2023 10:22:17

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280015.D
Lims ID: IC INT 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 28-Apr-2023 21:18:48 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*sub6

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 29-Apr-2023 13:04:19 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1621

First Level Reviewer: LV5D Date: 29-Apr-2023 10:22:33

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.116	5.115	0.001	41754	0.1003	0.1059	
4 DNX	1	5.963	5.955	0.008	28641	0.1001	0.1034	
5 HMX	1	6.603	6.595	0.008	19573	0.1000	0.1011	
6 MNX	1	7.496	7.489	0.007	30530	0.1167	0.1164	
7 2,4,6-Trinitrophenol	1	8.056	8.029	0.027	17060	0.1000	0.1033	
8 RDX	1	8.923	8.915	0.008	22827	0.1000	0.1027	
9 Nitrobenzene	1	11.483	11.482	0.001	41585	0.1000	0.1043	
$ 10 1,2-Dinitrobenzene	1	12.470	12.469	0.001	27893	0.1000	0.0994	
11 3,5-Dinitroaniline	1	14.363	14.355	0.008	46980	0.1000	0.1043	
12 1,3-Dinitrobenzene	1	14.623	14.622	0.001	62596	0.1000	0.0995	
13 Nitroglycerin	2	15.176	15.182	-0.006	134661	1.00	1.00	
14 o-Nitrotoluene	1	15.730	15.729	0.001	25290	0.1000	0.1024	
16 p-Nitrotoluene	1	15.956	15.955	0.001	23002	0.1000	0.1011	
17 4-Amino-2,6-dinitrotoluene	1	16.523	16.515	0.008	29472	0.1000	0.1002	
18 m-Nitrotoluene	1	16.816	16.815	0.001	29569	0.1000	0.1004	
19 2-Amino-4,6-dinitrotoluene	1	17.370	17.362	0.008	43948	0.1000	0.1027	M
20 1,3,5-Trinitrobenzene	1	17.423	17.422	0.001	41946	0.1000	0.1034	M
21 2,6-Dinitrotoluene	1	18.636	18.629	0.007	30260	0.1000	0.1037	
22 2,4-Dinitrotoluene	1	19.090	19.082	0.008	59433	0.1000	0.1017	
23 Tetryl	1	22.363	22.389	-0.026	27534	0.1000	0.0967	
24 2,4,6-Trinitrotoluene	1	23.156	23.182	-0.026	43136	0.1000	0.0983	
25 PETN	2	24.416	24.475	-0.059	146450	1.00	1.02	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00076	Amount Added: 10.00	Units: uL
8330 DMT_00013	Amount Added: 5.00	Units: uL

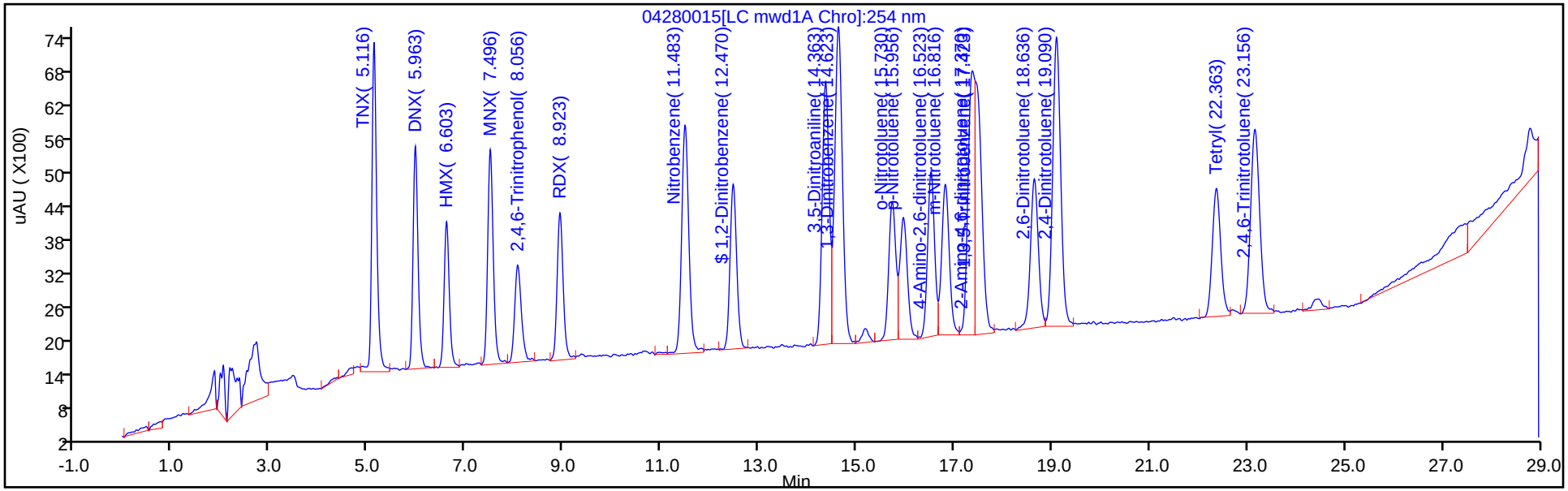
Report Date: 29-Apr-2023 13:04:19 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

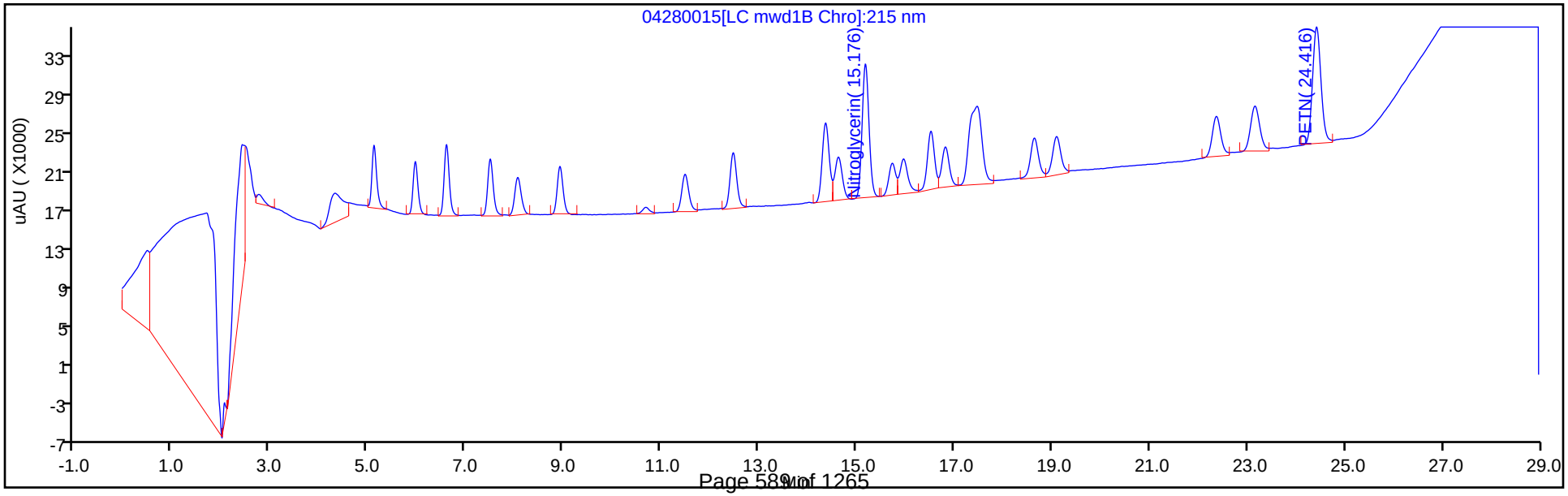
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280015.D

Injection Date:	28-Apr-2023 21:18:48	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



Manual Integration/User Assign Peak Report

Eurofins Denver

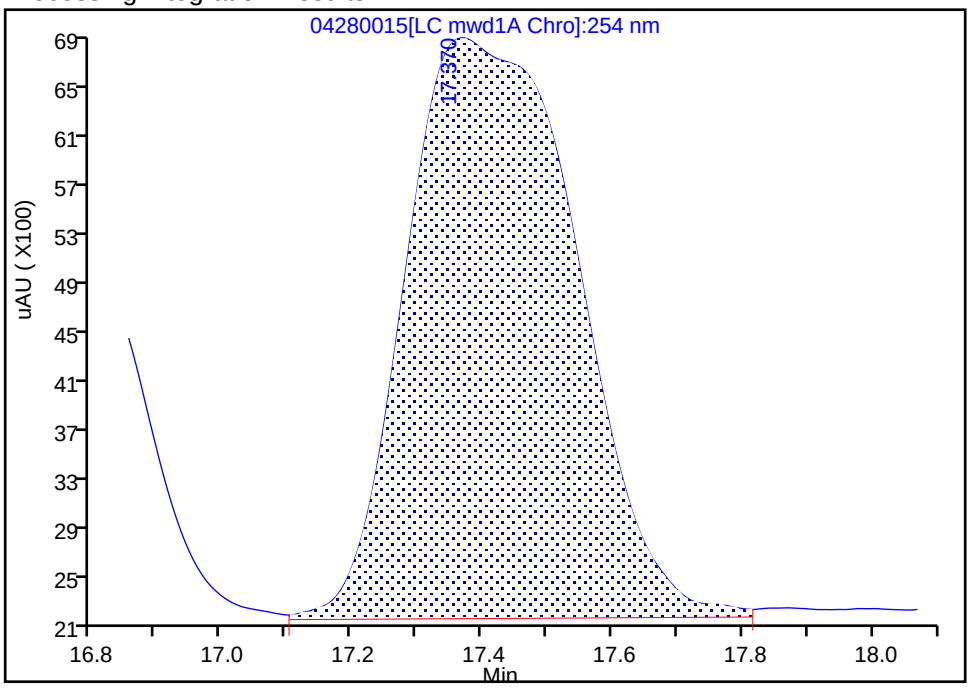
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280015.D				
Injection Date:	28-Apr-2023 21:18:48	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 4				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

20 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

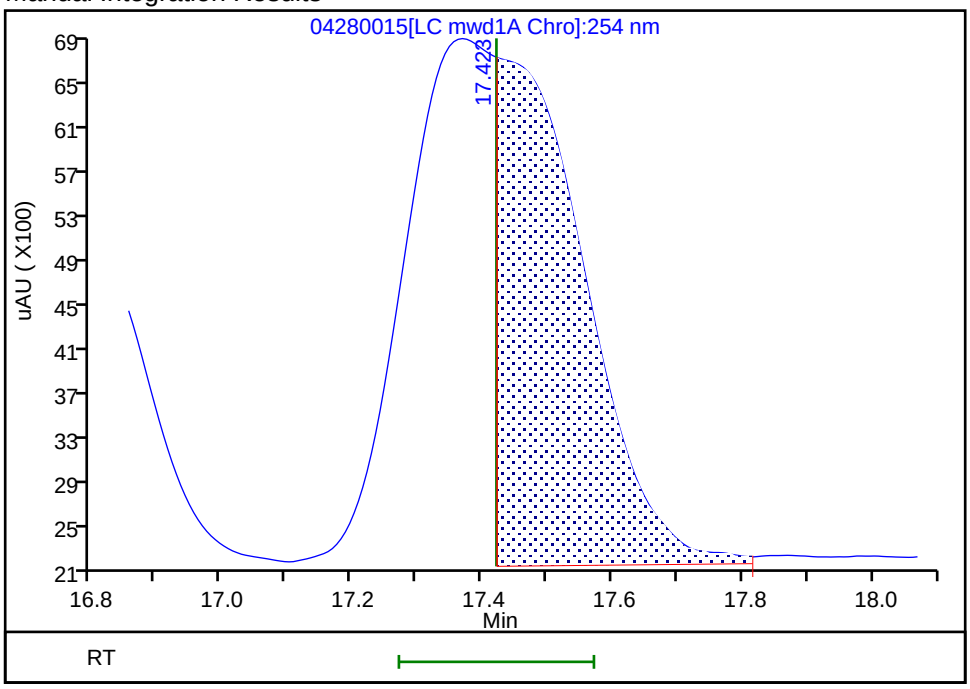
Processing Integration Results

RT: 17.37
Area: 85885
Amount: 0.174611
Amount Units: ug/ml



Manual Integration Results

RT: 17.42
Area: 41946
Amount: 0.103394
Amount Units: ug/ml



Reviewer: LV5D, 29-Apr-2023 10:22:30

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280016.D
Lims ID: IC INT 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Apr-2023 21:53:46 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*sub6

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 29-Apr-2023 13:04:19 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1621

First Level Reviewer: LV5D Date: 29-Apr-2023 10:22:43

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.116	5.115	0.001	20281	0.0502	0.0514	
4 DNX	1	5.969	5.955	0.014	14733	0.0501	0.0532	
5 HMX	1	6.603	6.595	0.008	10761	0.0500	0.0535	
6 MNX	1	7.503	7.489	0.014	15694	0.0584	0.0598	
7 2,4,6-Trinitrophenol	1	8.076	8.029	0.047	8950	0.0500	0.0526	
8 RDX	1	8.929	8.915	0.014	11621	0.0500	0.0508	
9 Nitrobenzene	1	11.489	11.482	0.007	20883	0.0500	0.0524	
$ 10 1,2-Dinitrobenzene	1	12.476	12.469	0.007	14379	0.0500	0.0512	
11 3,5-Dinitroaniline	1	14.369	14.355	0.014	24176	0.0500	0.0530	
12 1,3-Dinitrobenzene	1	14.629	14.622	0.007	31459	0.0500	0.0500	
13 Nitroglycerin	2	15.176	15.182	-0.006	71084	0.5000	0.5276	
14 o-Nitrotoluene	1	15.723	15.729	-0.006	12951	0.0500	0.0524	
16 p-Nitrotoluene	1	15.956	15.955	0.001	12179	0.0500	0.0535	
17 4-Amino-2,6-dinitrotoluene	1	16.523	16.515	0.008	15265	0.0500	0.0519	
18 m-Nitrotoluene	1	16.816	16.815	0.001	15546	0.0500	0.0528	
19 2-Amino-4,6-dinitrotoluene	1	17.376	17.362	0.014	23162	0.0500	0.0541	M
20 1,3,5-Trinitrobenzene	1	17.429	17.422	0.007	22059	0.0500	0.0544	M
21 2,6-Dinitrotoluene	1	18.643	18.629	0.014	15876	0.0500	0.0544	
22 2,4-Dinitrotoluene	1	19.096	19.082	0.014	30407	0.0500	0.0520	
23 Tetryl	1	22.369	22.389	-0.020	14233	0.0500	0.0500	
24 2,4,6-Trinitrotoluene	1	23.163	23.182	-0.019	22184	0.0500	0.0505	
25 PETN	2	24.423	24.475	-0.052	72943	0.5000	0.5068	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00076	Amount Added:	5.00	Units: uL
8330 DMT_00013	Amount Added:	2.50	Units: uL

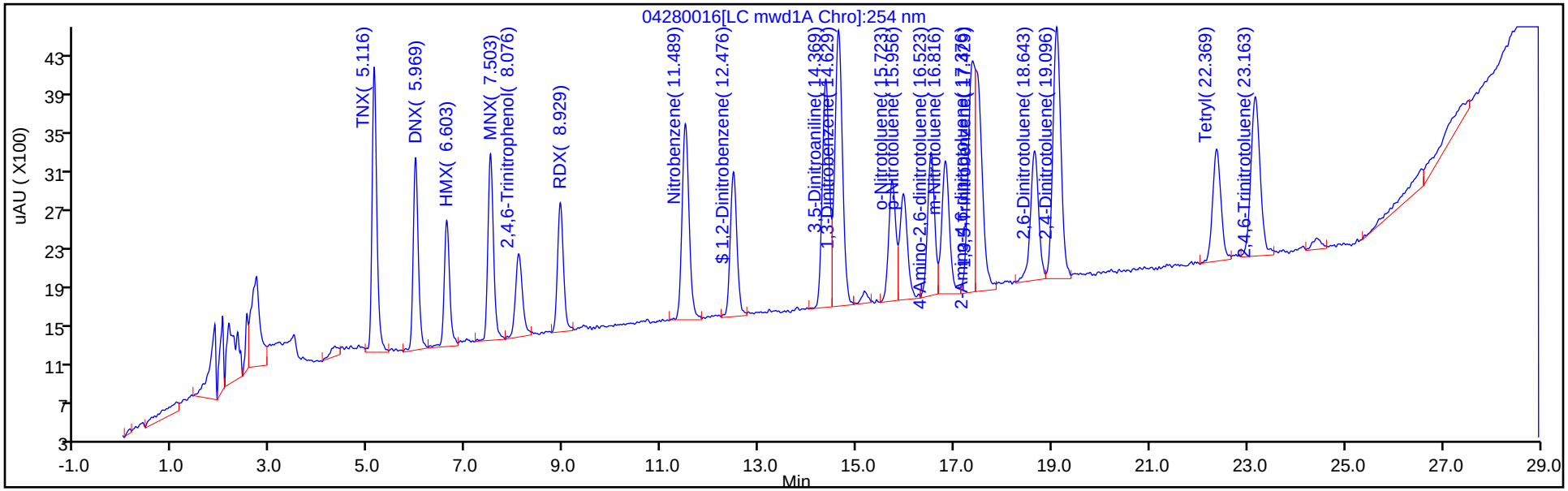
Report Date: 29-Apr-2023 13:04:19 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

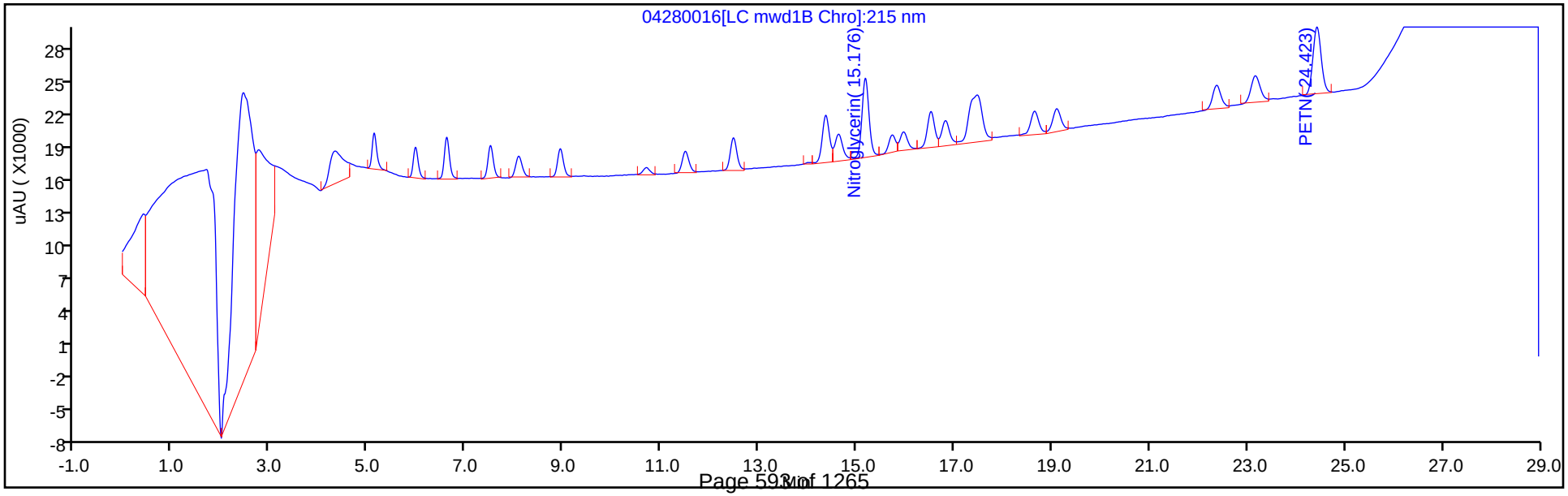
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280016.D

Injection Date:	28-Apr-2023 21:53:46	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



Manual Integration/User Assign Peak Report

Eurofins Denver

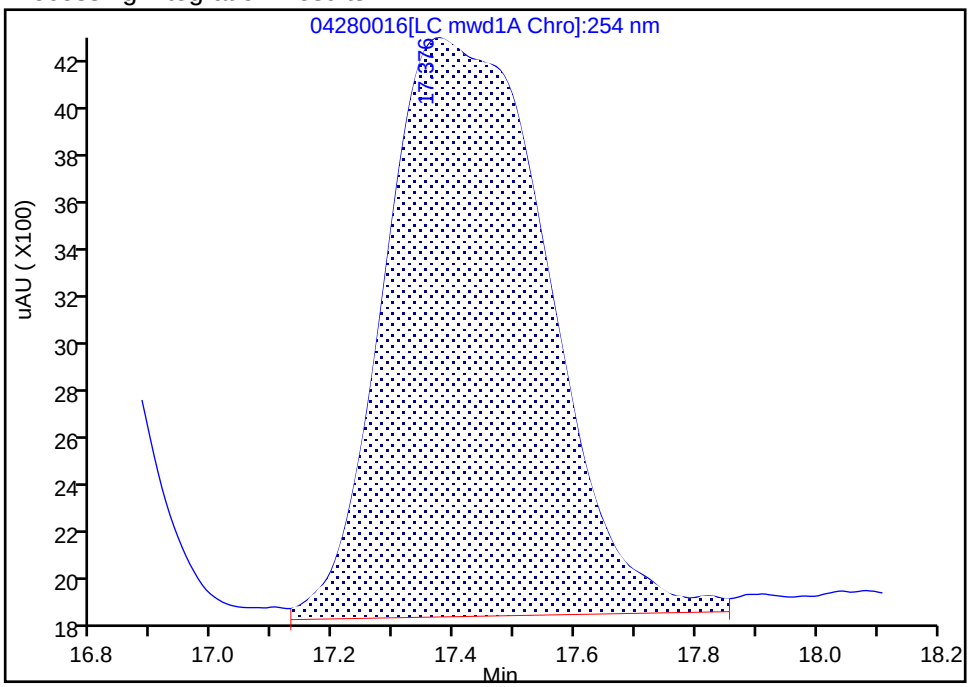
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280016.D				
Injection Date:	28-Apr-2023 21:53:46	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 3				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

20 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

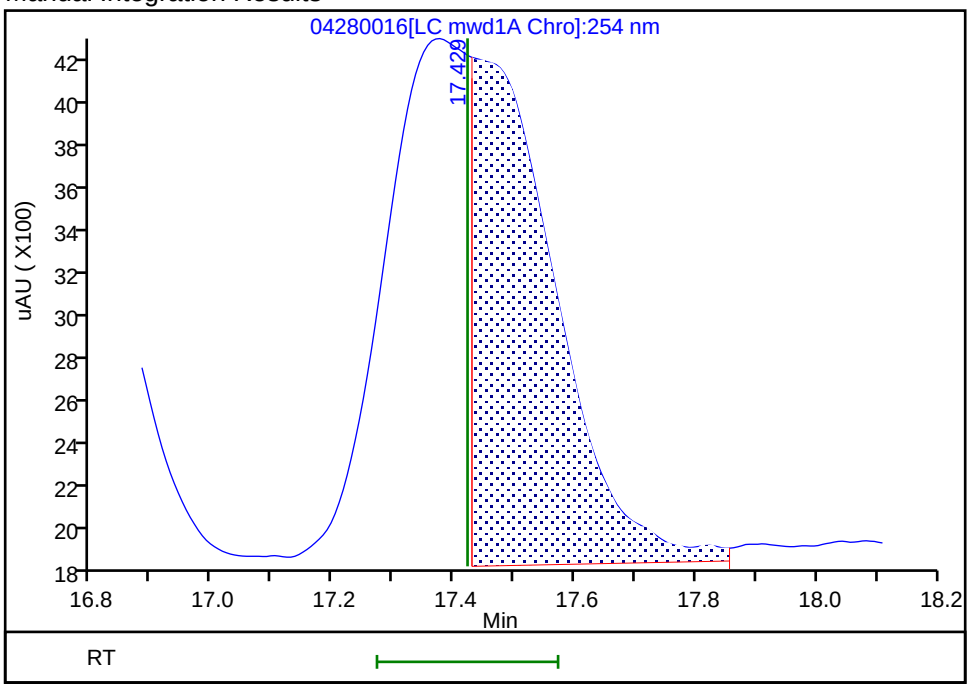
Processing Integration Results

RT: 17.38
Area: 45204
Amount: 0.102031
Amount Units: ug/ml



Manual Integration Results

RT: 17.43
Area: 22059
Amount: 0.054374
Amount Units: ug/ml



Reviewer: LV5D, 29-Apr-2023 10:22:40

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280017.D
Lims ID: IC INT 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Apr-2023 22:28:39 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*sub6

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 29-Apr-2023 13:04:20 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1621

First Level Reviewer: LV5D Date: 29-Apr-2023 10:23:35

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.136	5.115	0.021	8179	0.0201	0.0207	
4 DNX	1	5.983	5.955	0.028	5728	0.0200	0.0207	
5 HMX	1	6.630	6.595	0.035	4449	0.0200	0.0195	
6 MNX	1	7.523	7.489	0.034	6155	0.0233	0.0235	
7 2,4,6-Trinitrophenol	1	8.116	8.029	0.087	3453	0.0200	0.0182	
8 RDX	1	8.956	8.915	0.041	4863	0.0200	0.0194	
9 Nitrobenzene	1	11.523	11.482	0.041	7871	0.0200	0.0197	
$ 10 1,2-Dinitrobenzene	1	12.516	12.469	0.047	6038	0.0200	0.0215	
11 3,5-Dinitroaniline	1	14.410	14.355	0.055	9221	0.0200	0.0194	
12 1,3-Dinitrobenzene	1	14.663	14.622	0.041	12307	0.0200	0.0196	
13 Nitroglycerin	2	15.216	15.182	0.034	27409	0.2000	0.2034	
14 o-Nitrotoluene	1	15.770	15.729	0.041	5281	0.0200	0.0214	M
16 p-Nitrotoluene	1	15.996	15.955	0.041	4466	0.0200	0.0196	M
17 4-Amino-2,6-dinitrotoluene	1	16.556	16.515	0.041	6064	0.0200	0.0206	M
18 m-Nitrotoluene	1	16.843	16.815	0.028	5823	0.0200	0.0198	M
19 2-Amino-4,6-dinitrotoluene	1	17.410	17.362	0.048	8257	0.0200	0.0193	M
20 1,3,5-Trinitrobenzene	1	17.456	17.422	0.034	7799	0.0200	0.0192	M
21 2,6-Dinitrotoluene	1	18.670	18.629	0.041	5716	0.0200	0.0196	
22 2,4-Dinitrotoluene	1	19.123	19.082	0.041	12241	0.0200	0.0209	
23 Tetryl	1	22.396	22.389	0.007	6348	0.0200	0.0223	
24 2,4,6-Trinitrotoluene	1	23.196	23.182	0.014	9925	0.0200	0.0226	
25 PETN	2	24.450	24.475	-0.025	28805	0.2000	0.2001	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00076	Amount Added:	2.00	Units: uL
8330 DMT_00013	Amount Added:	1.00	Units: uL

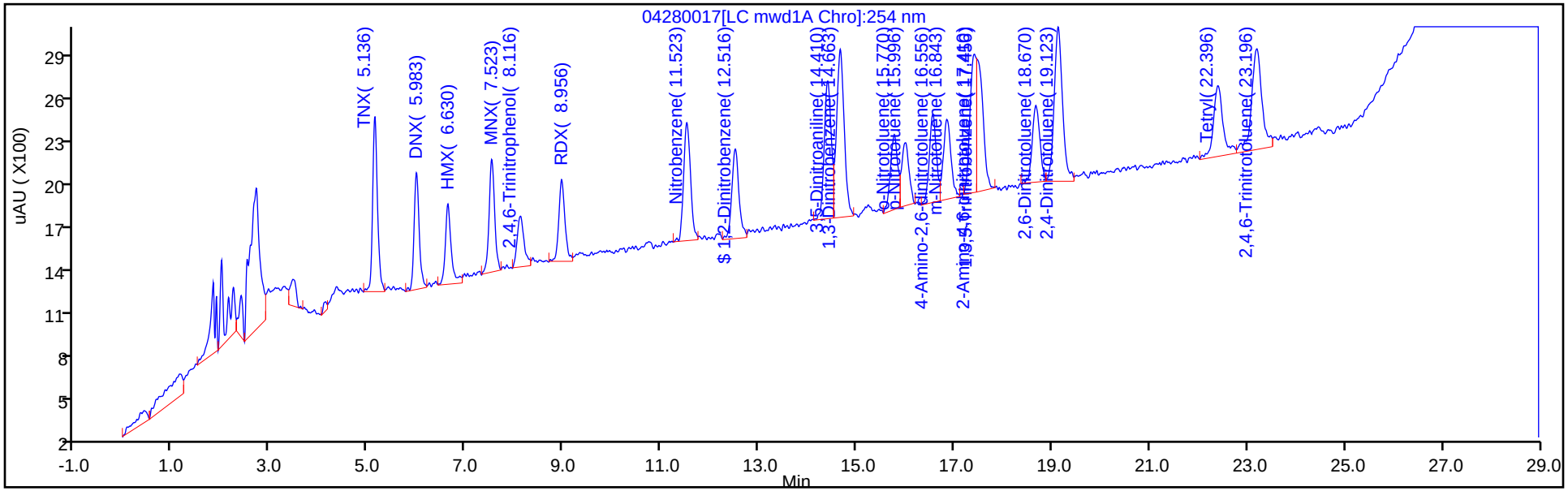
Report Date: 29-Apr-2023 13:04:20 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

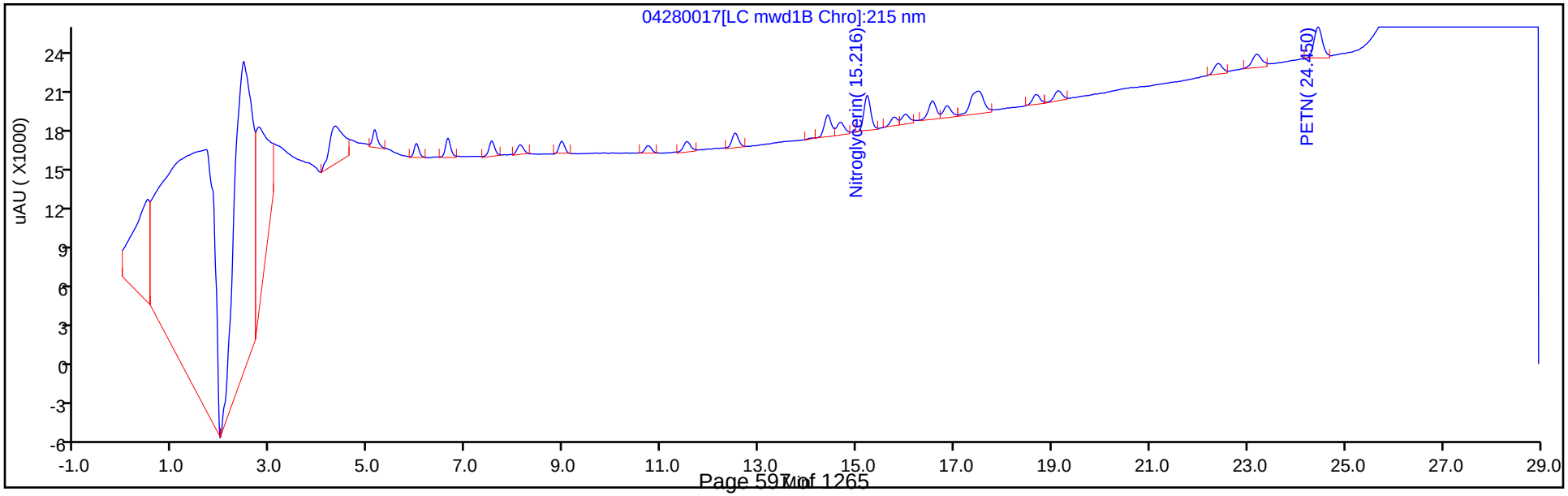
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280017.D

Injection Date:	28-Apr-2023 22:28:39	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



Manual Integration/User Assign Peak Report

Eurofins Denver

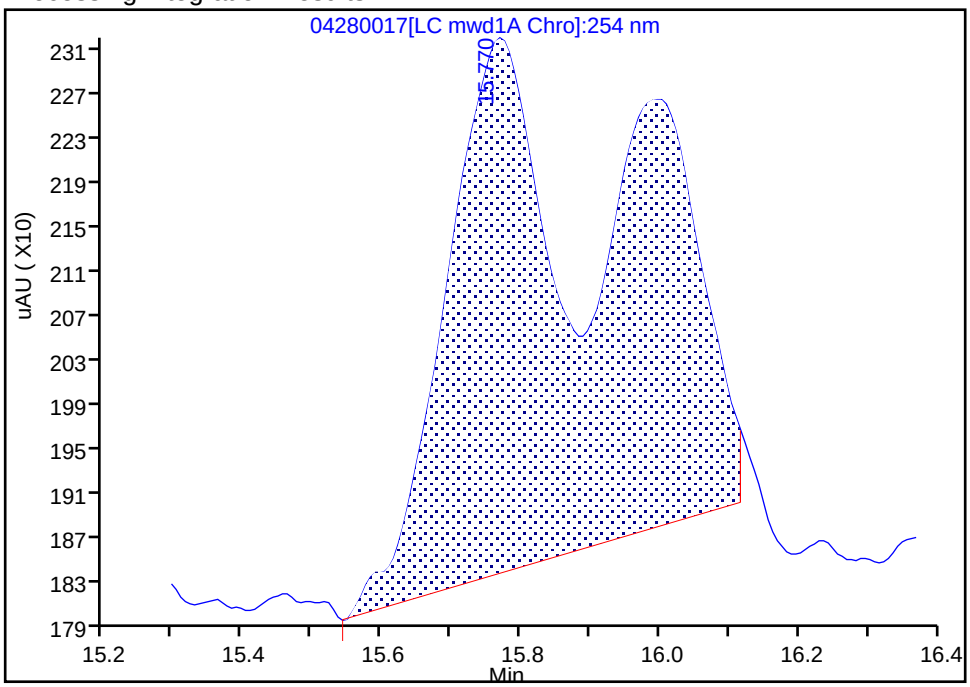
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280017.D				
Injection Date:	28-Apr-2023 22:28:39	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 2				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

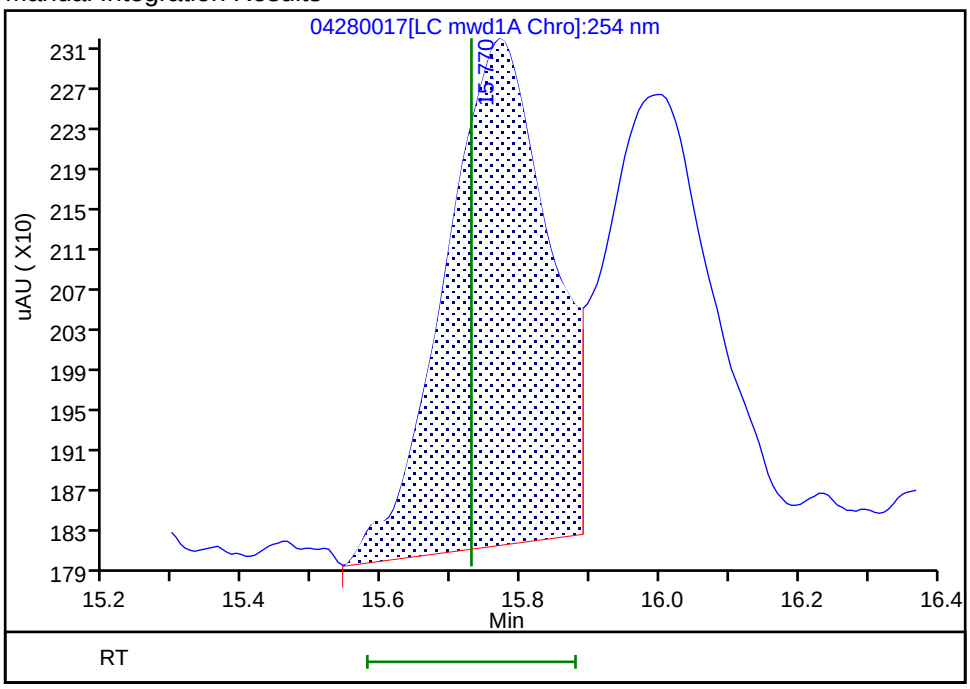
Processing Integration Results

RT: 15.77
Area: 8594
Amount: 0.026168
Amount Units: ug/ml



Manual Integration Results

RT: 15.77
Area: 5281
Amount: 0.021384
Amount Units: ug/ml



Reviewer: LV5D, 29-Apr-2023 10:23:05

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

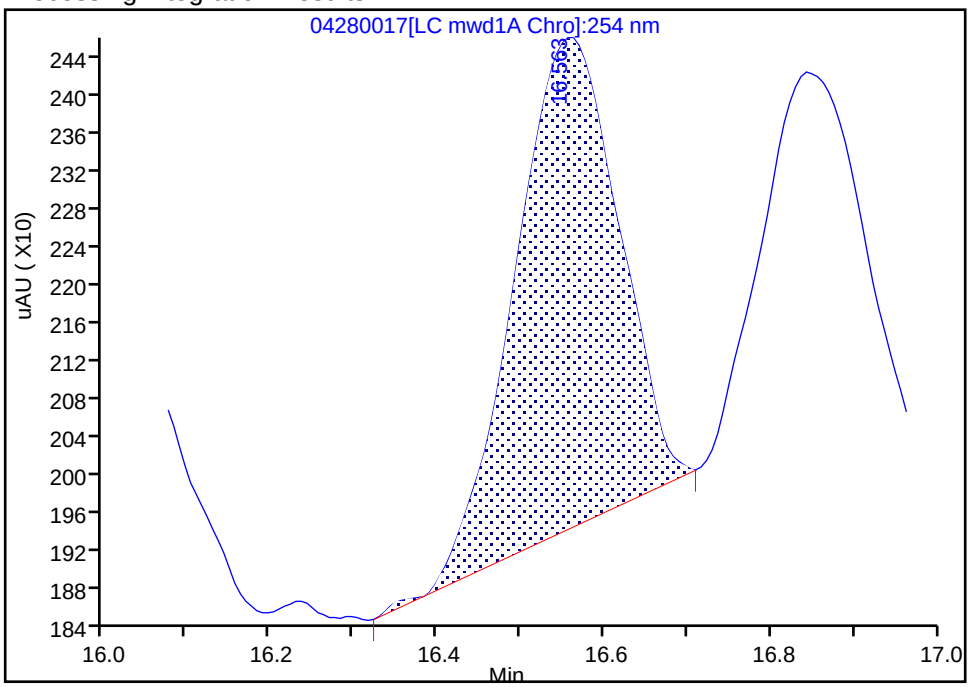
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280017.D				
Injection Date:	28-Apr-2023 22:28:39	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 2				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

17 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

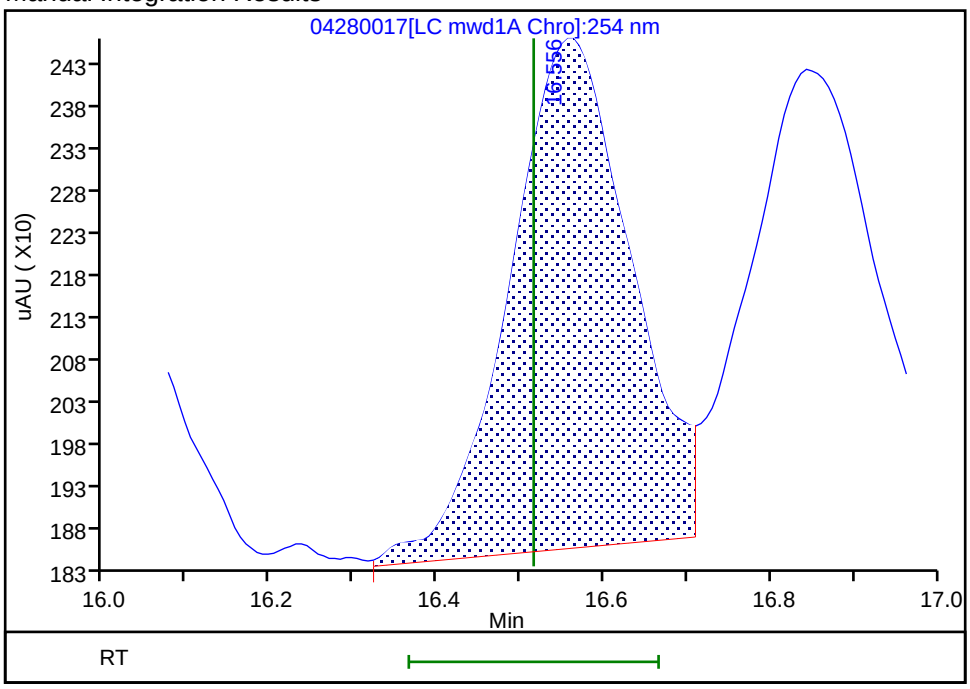
Processing Integration Results

RT: 16.56
Area: 4498
Amount: 0.016304
Amount Units: ug/ml



Manual Integration Results

RT: 16.56
Area: 6064
Amount: 0.020611
Amount Units: ug/ml



Reviewer: LV5D, 29-Apr-2023 10:23:33

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

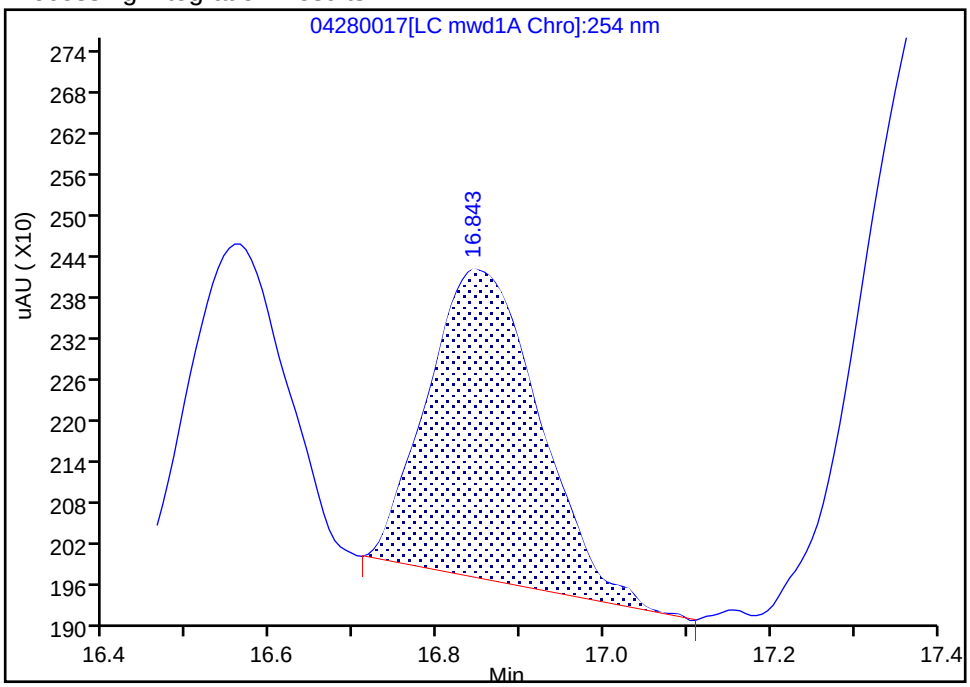
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280017.D				
Injection Date:	28-Apr-2023 22:28:39	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 2				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

18 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

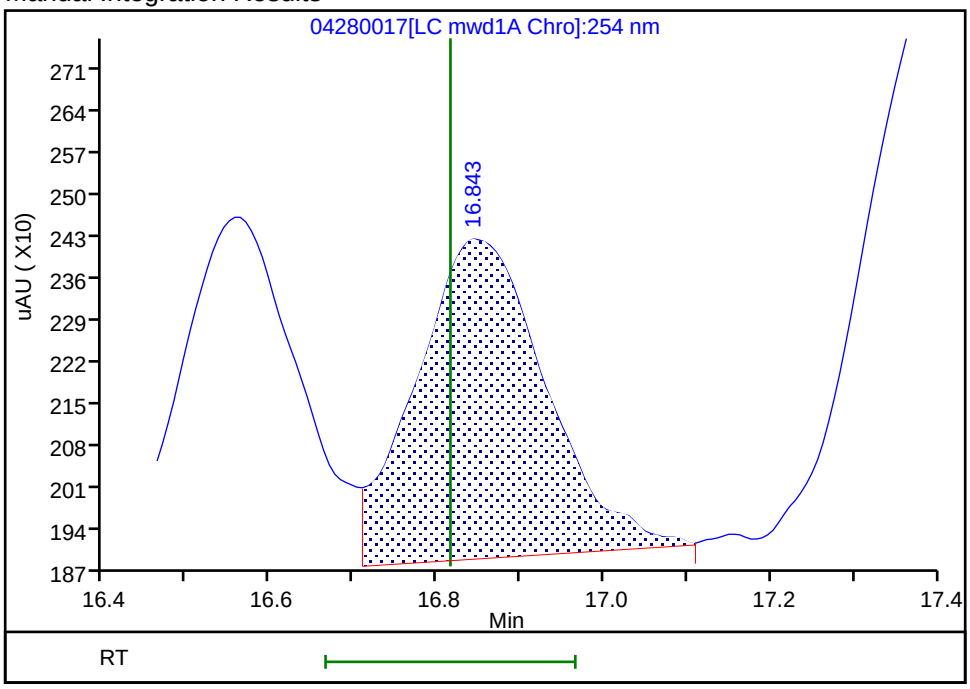
Processing Integration Results

RT: 16.84
Area: 4234
Amount: 0.015427
Amount Units: ug/ml



Manual Integration Results

RT: 16.84
Area: 5823
Amount: 0.019763
Amount Units: ug/ml



Reviewer: LV5D, 29-Apr-2023 10:23:33

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

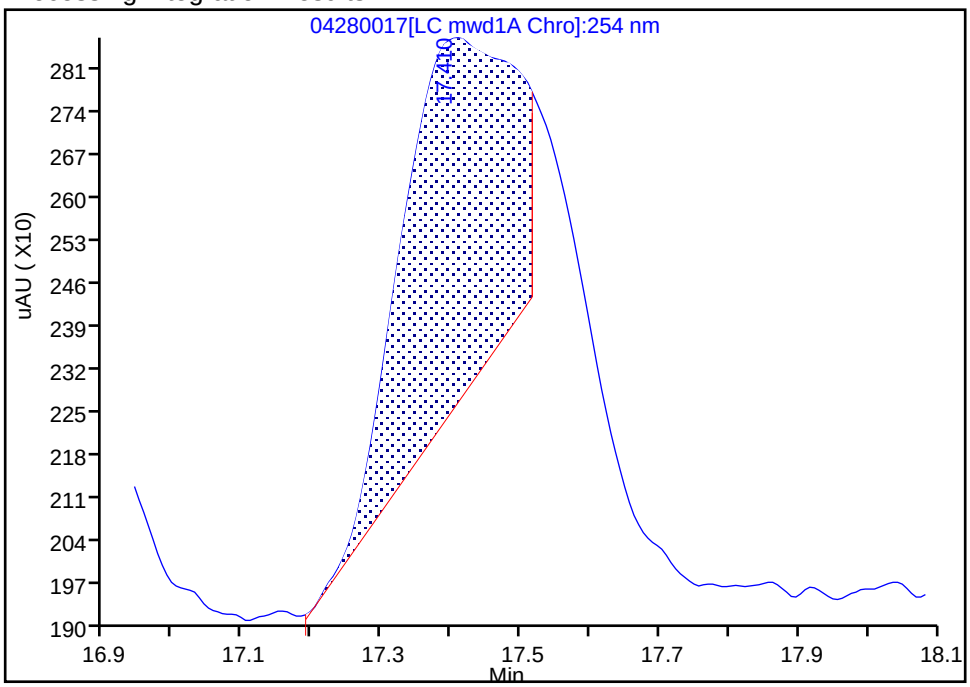
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280017.D				
Injection Date:	28-Apr-2023 22:28:39	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 2				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

20 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

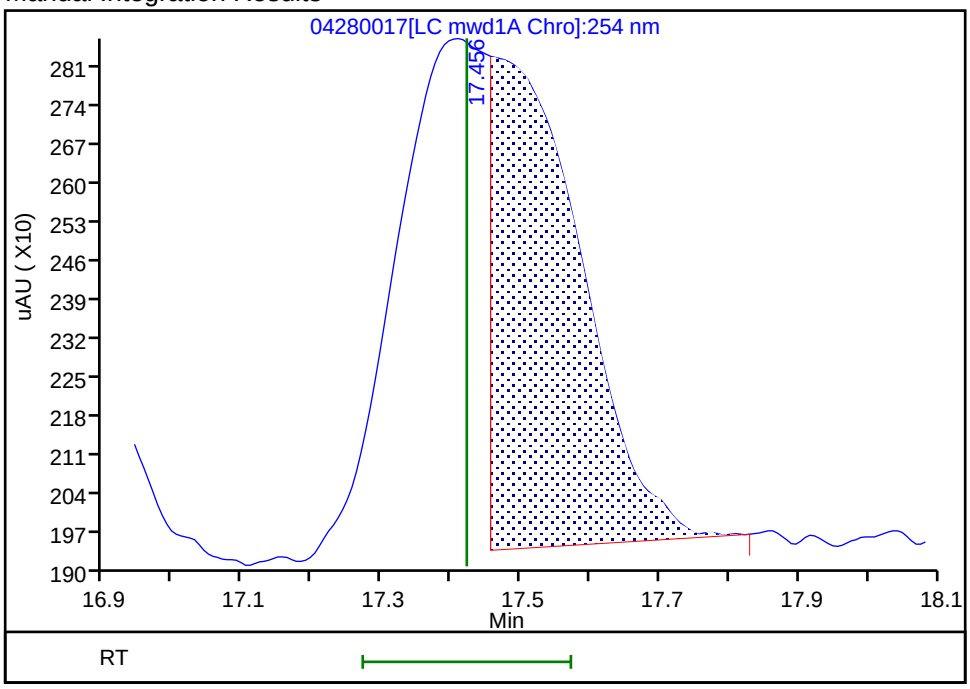
Processing Integration Results

RT: 17.41
Area: 6616
Amount: 0.016894
Amount Units: ug/ml



Manual Integration Results

RT: 17.46
Area: 7799
Amount: 0.019224
Amount Units: ug/ml



Reviewer: LV5D, 29-Apr-2023 10:23:23

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280018.D
Lims ID: IC INT 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Apr-2023 23:03:35 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*sub6

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 29-Apr-2023 13:04:20 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1621

First Level Reviewer: LV5D Date: 29-Apr-2023 10:24:45

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.116	5.115	0.001	4552	0.0100	0.0115	
4 DNX	1	5.963	5.955	0.008	2804	0.0100	0.0101	
5 HMX	1	6.596	6.595	0.001	2178	0.0100	0.007259	
6 MNX	1	7.496	7.489	0.007	3646	0.0117	0.0139	
7 2,4,6-Trinitrophenol	1	8.063	8.029	0.034	2197	0.0100	0.0103	
8 RDX	1	8.923	8.915	0.008	2852	0.0100	0.0101	
9 Nitrobenzene	1	11.489	11.482	0.007	4269	0.0100	0.0107	
$ 10 1,2-Dinitrobenzene	1	12.483	12.469	0.014	3169	0.0100	0.0113	
11 3,5-Dinitroaniline	1	14.376	14.355	0.021	5053	0.0100	0.0100	
12 1,3-Dinitrobenzene	1	14.636	14.622	0.014	6946	0.0100	0.0110	
13 Nitroglycerin	2	15.196	15.182	0.014	14603	0.1000	0.1084	
14 o-Nitrotoluene	1	15.736	15.729	0.007	2336	0.0100	0.009459	M
16 p-Nitrotoluene	1	15.969	15.955	0.014	2206	0.0100	0.009697	M
17 4-Amino-2,6-dinitrotoluene	1	16.529	16.515	0.014	3275	0.0100	0.0111	M
18 m-Nitrotoluene	1	16.843	16.815	0.028	3269	0.0100	0.0111	M
19 2-Amino-4,6-dinitrotoluene	1	17.369	17.362	0.007	3912	0.0100	0.009141	M
20 1,3,5-Trinitrobenzene	1	17.443	17.422	0.021	4438	0.0100	0.0109	M
21 2,6-Dinitrotoluene	1	18.643	18.629	0.014	3093	0.0100	0.0106	
22 2,4-Dinitrotoluene	1	19.096	19.082	0.014	5987	0.0100	0.0102	
23 Tetryl	1	22.363	22.389	-0.026	3282	0.0100	0.0115	
24 2,4,6-Trinitrotoluene	1	23.176	23.182	-0.006	4919	0.0100	0.0112	
25 PETN	2	24.430	24.475	-0.045	16344	0.1000	0.1135	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00076	Amount Added:	1.00	Units: uL
8330 DMT_00013	Amount Added:	0.50	Units: uL

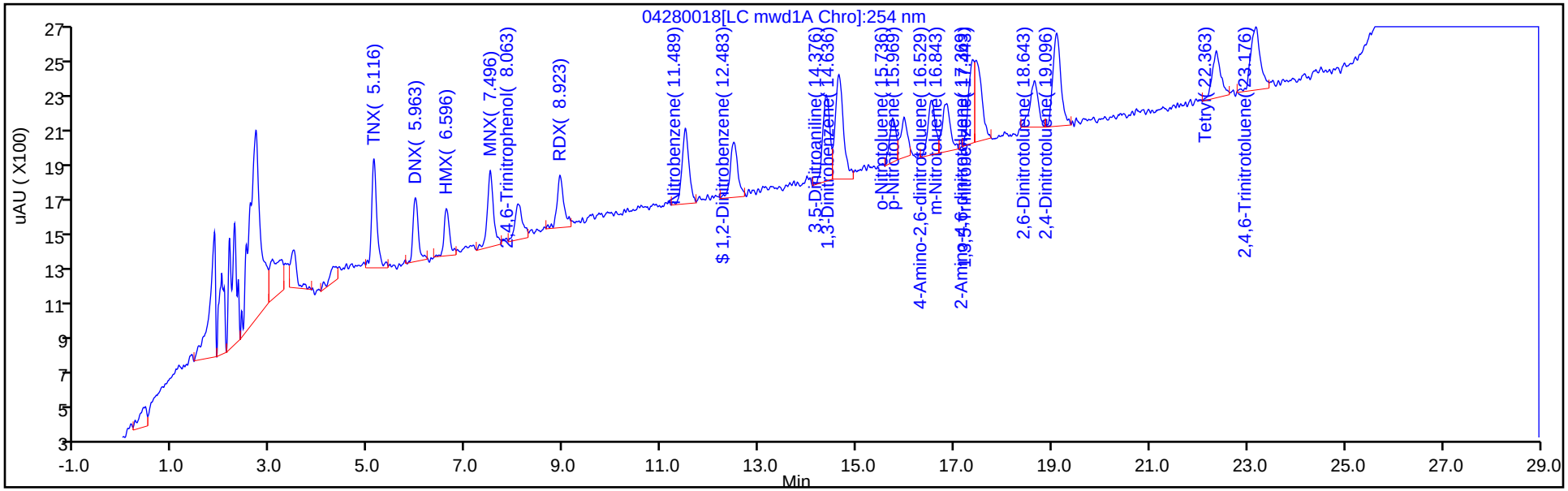
Report Date: 29-Apr-2023 13:04:20 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

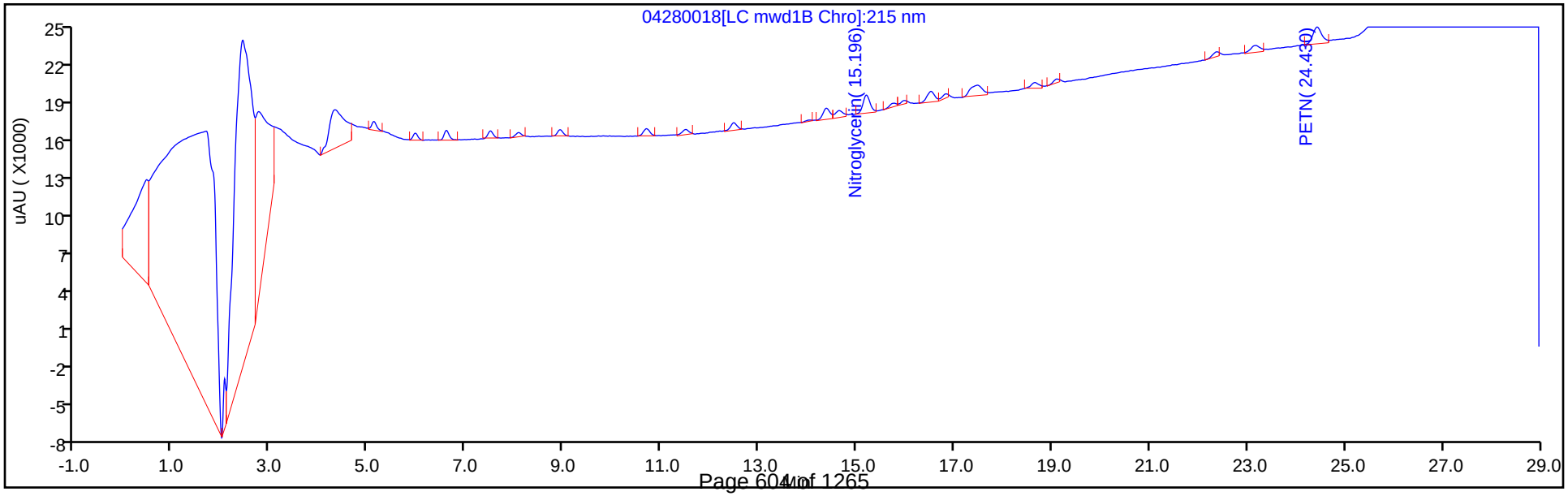
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280018.D

Injection Date:	28-Apr-2023 23:03:35	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



Manual Integration/User Assign Peak Report

Eurofins Denver

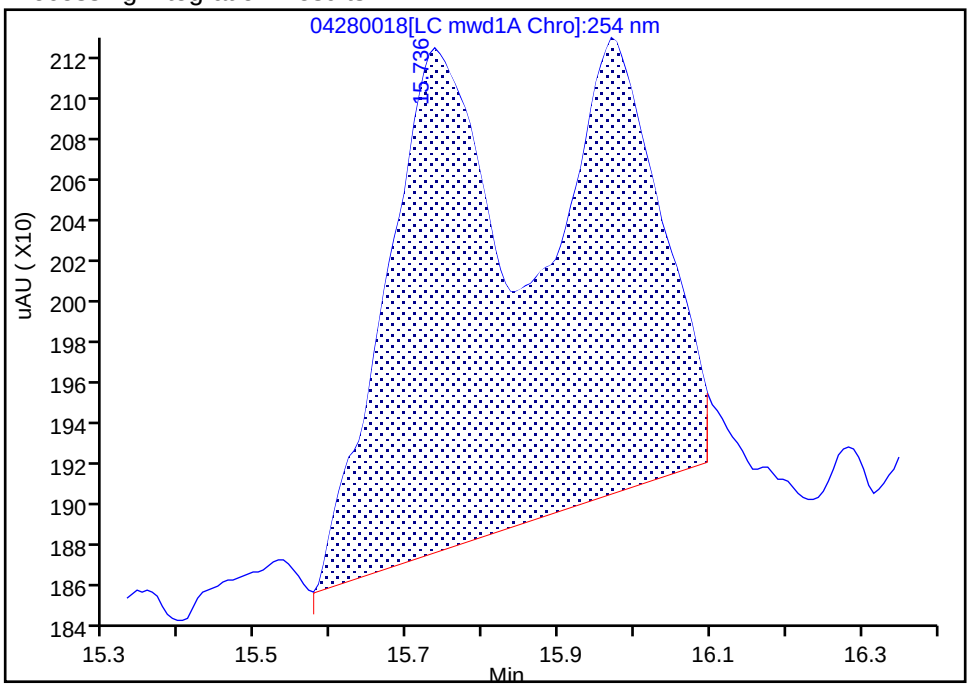
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280018.D				
Injection Date:	28-Apr-2023 23:03:35	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 1				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	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

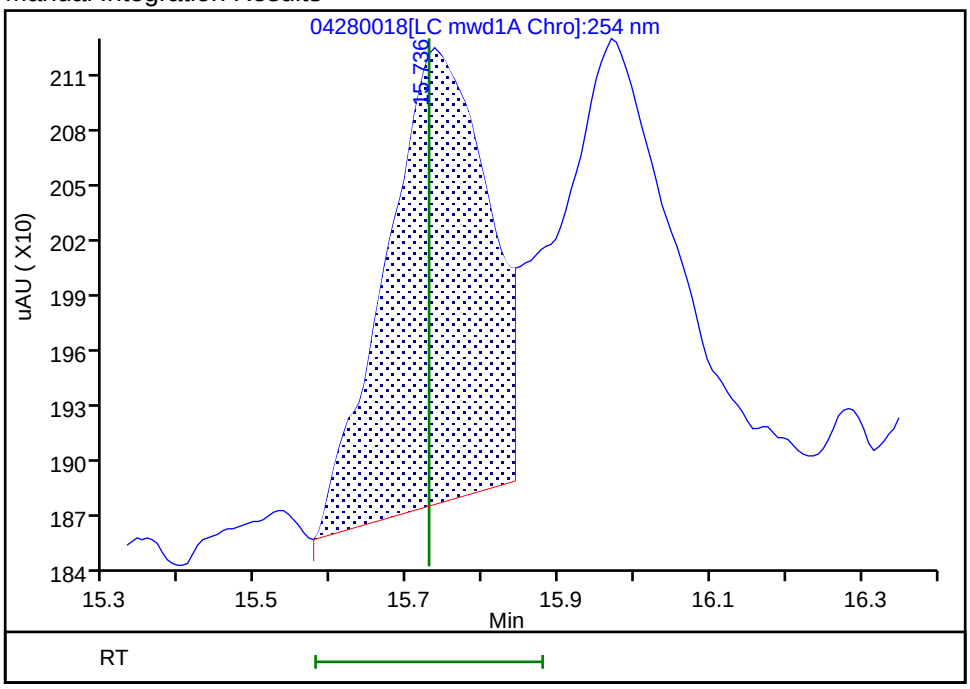
Processing Integration Results

RT: 15.74
Area: 4530
Amount: 0.013152
Amount Units: ug/ml



Manual Integration Results

RT: 15.74
Area: 2336
Amount: 0.009459
Amount Units: ug/ml



Reviewer: LV5D, 29-Apr-2023 10:24:06
Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

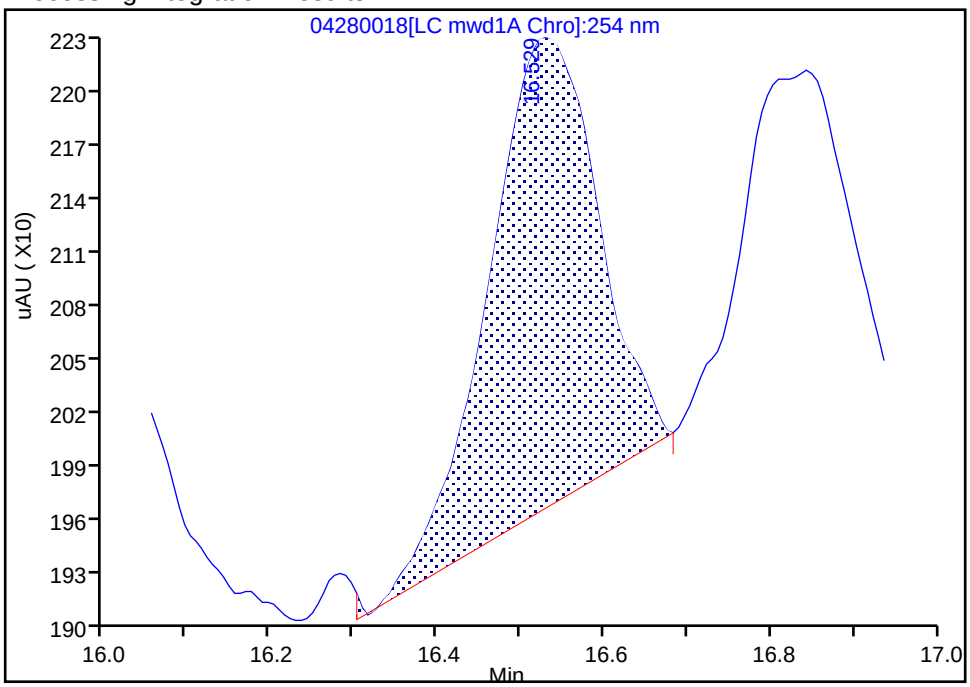
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280018.D				
Injection Date:	28-Apr-2023 23:03:35	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 1				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	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

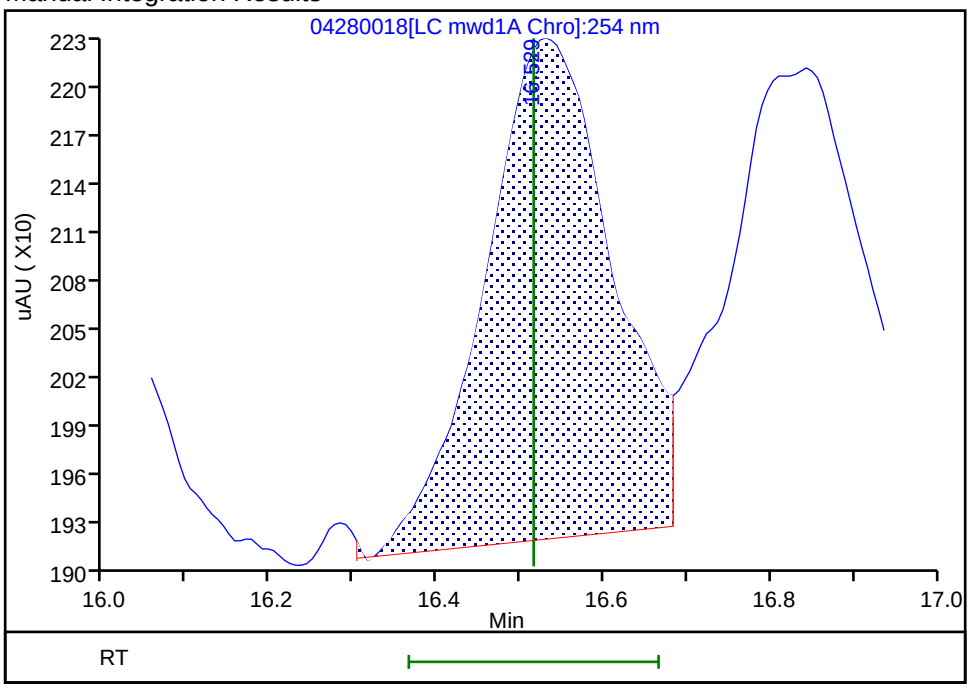
Processing Integration Results

RT: 16.53
Area: 2409
Amount: 0.008465
Amount Units: ug/ml



Manual Integration Results

RT: 16.53
Area: 3275
Amount: 0.011131
Amount Units: ug/ml



Reviewer: LV5D, 29-Apr-2023 13:01:58
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

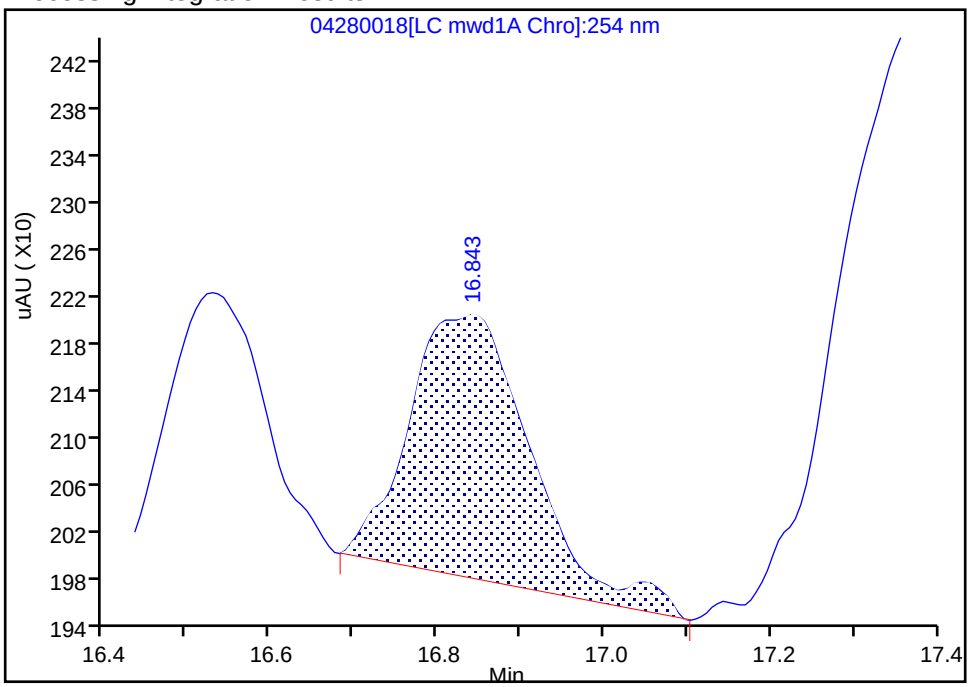
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280018.D
Injection Date: 28-Apr-2023 23:03:35 Instrument ID: CHHPLC_X5
Lims ID: IC INT 1
Client ID:
Operator ID: JZ/JG ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X5_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC mwd1A, 254 nm

18 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

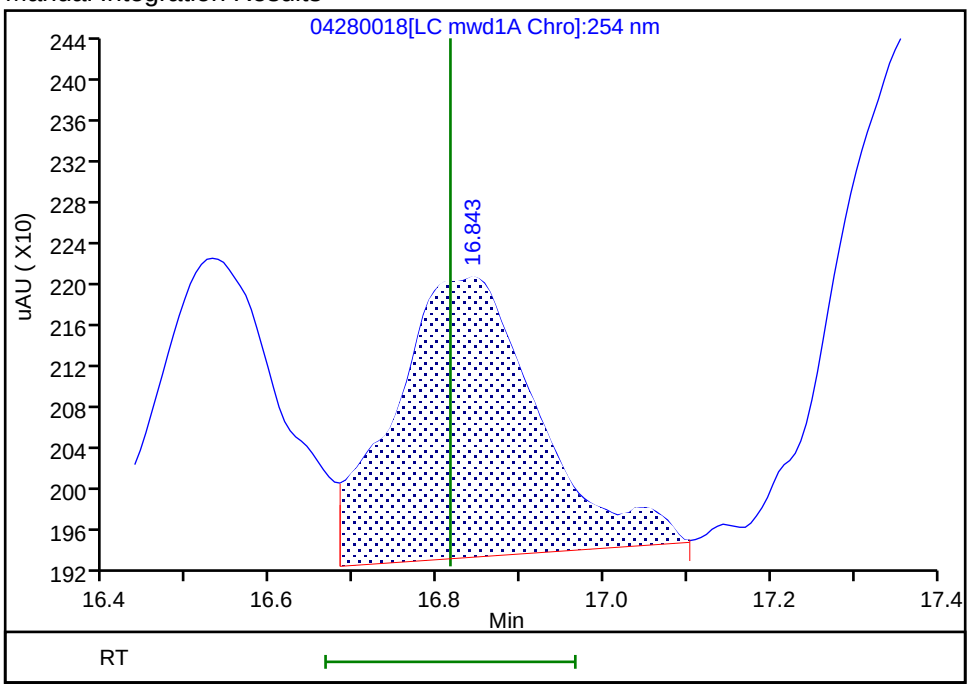
Processing Integration Results

RT: 16.84
Area: 2248
Amount: 0.007935
Amount Units: ug/ml



Manual Integration Results

RT: 16.84
Area: 3269
Amount: 0.011095
Amount Units: ug/ml



Reviewer: LV5D, 29-Apr-2023 13:01:58
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

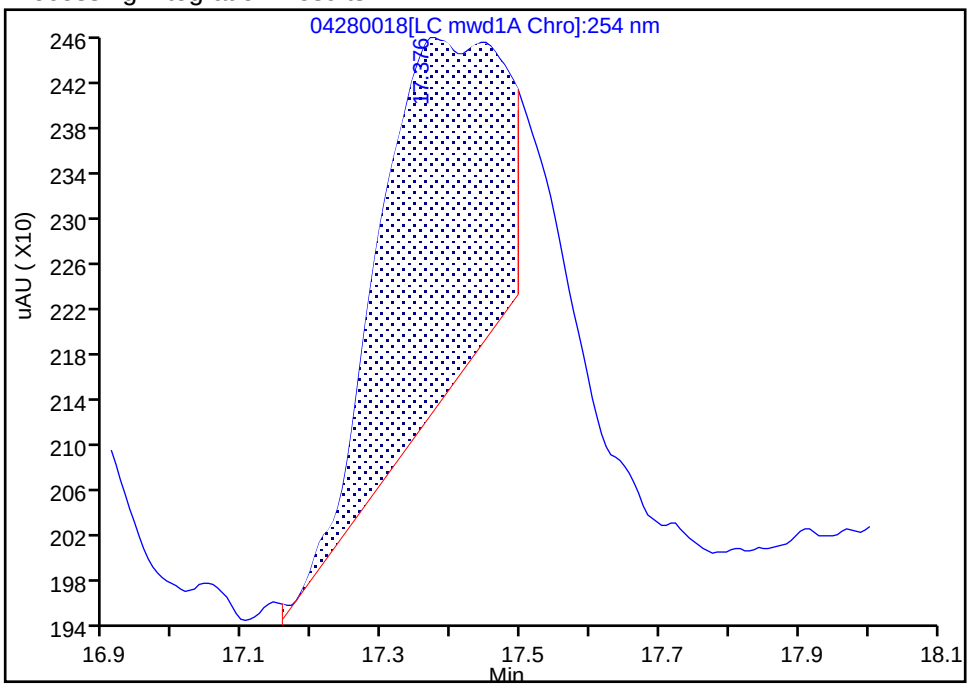
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280018.D				
Injection Date:	28-Apr-2023 23:03:35	Instrument ID:	CHHPLC_X5		
Lims ID:	IC INT 1				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	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

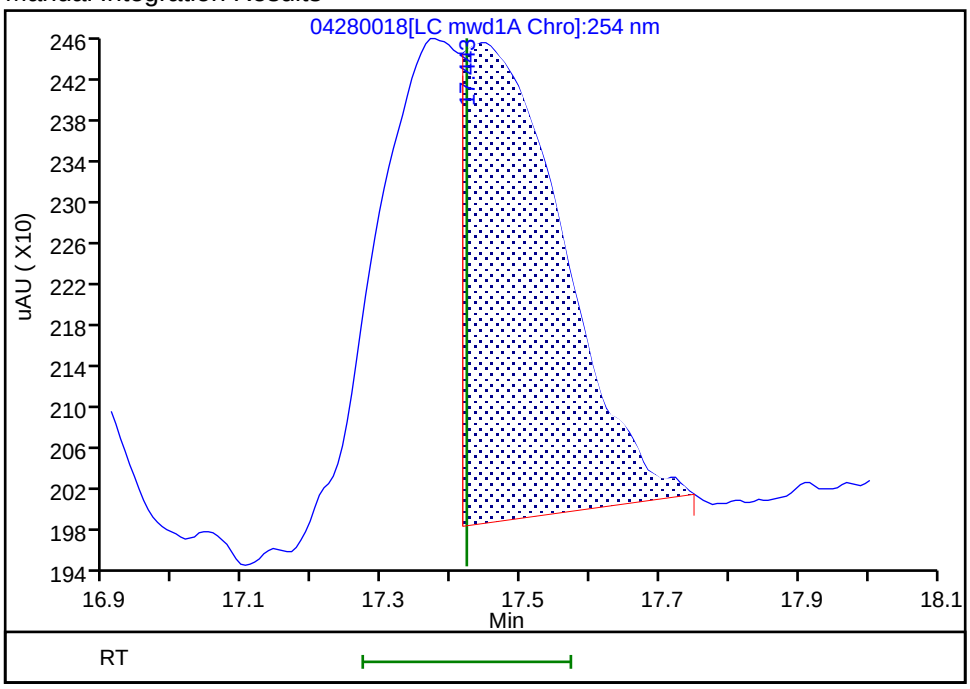
Processing Integration Results

RT: 17.38
Area: 3762
Amount: 0.009448
Amount Units: ug/ml



Manual Integration Results

RT: 17.44
Area: 4438
Amount: 0.010939
Amount Units: ug/ml



Reviewer: LV5D, 29-Apr-2023 10:24:15

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Calibration / TNX

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

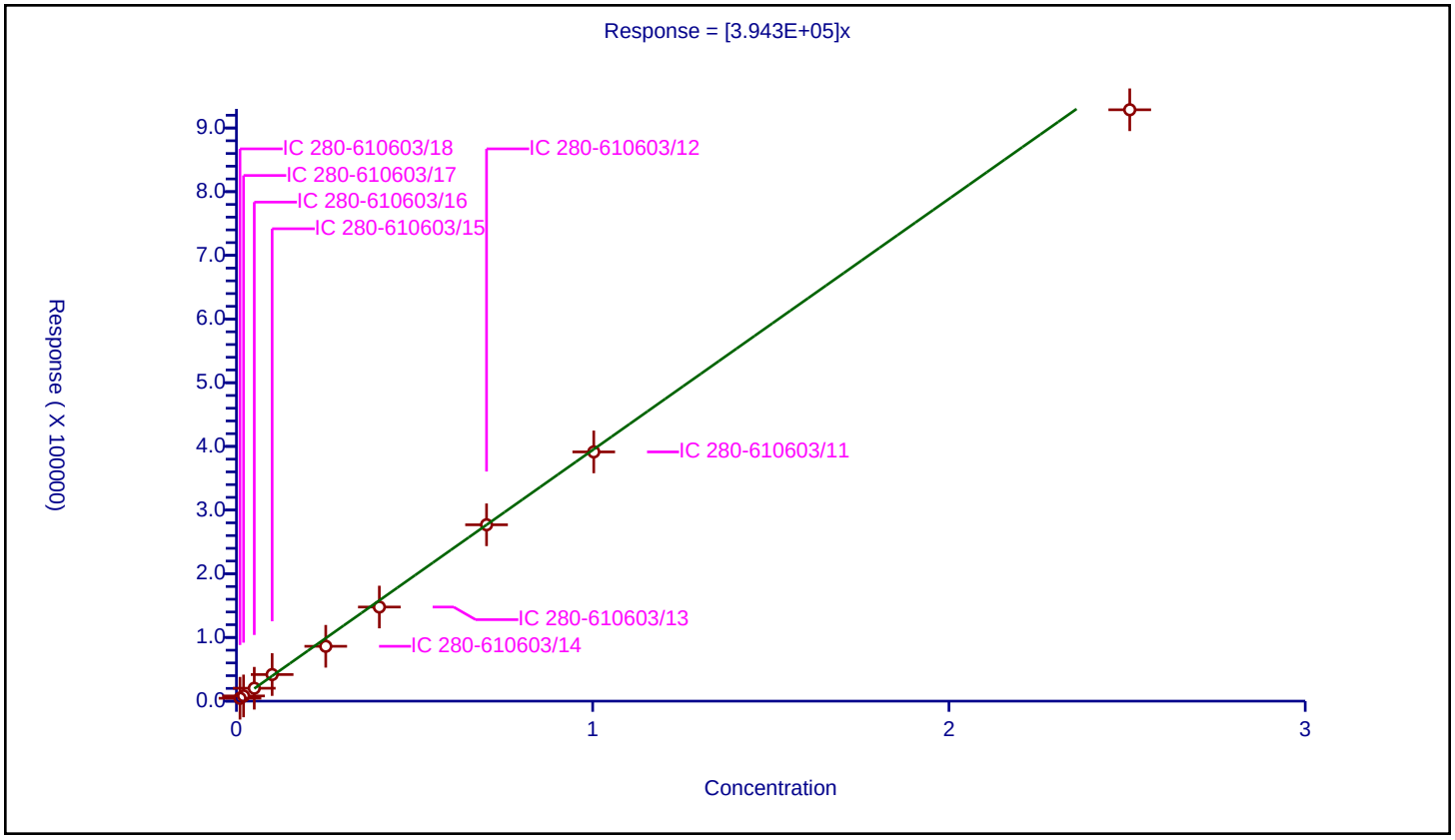
Curve Coefficients

Intercept:	0
Slope:	3.943E+05

Error Coefficients

Standard Error:	22100
Relative Standard Error:	8.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/18	0.01003	4552.0			453838.484546	Y
2	IC 280-610603/17	0.02006	8179.0			407726.819541	Y
3	IC 280-610603/16	0.05015	20281.0			404406.779661	Y
4	IC 280-610603/15	0.1003	41754.0			416291.12662	Y
5	IC 280-610603/14	0.25075	86123.0			343461.615155	Y
6	IC 280-610603/13	0.4012	147763.0			368302.592223	Y
7	IC 280-610603/12	0.7021	276939.0			394443.811423	Y
8	IC 280-610603/11	1.003	391357.0			390186.440678	Y
9	IC 280-610603/10	2.5075	928605.0			370331.006979	Y



Calibration / DNX

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

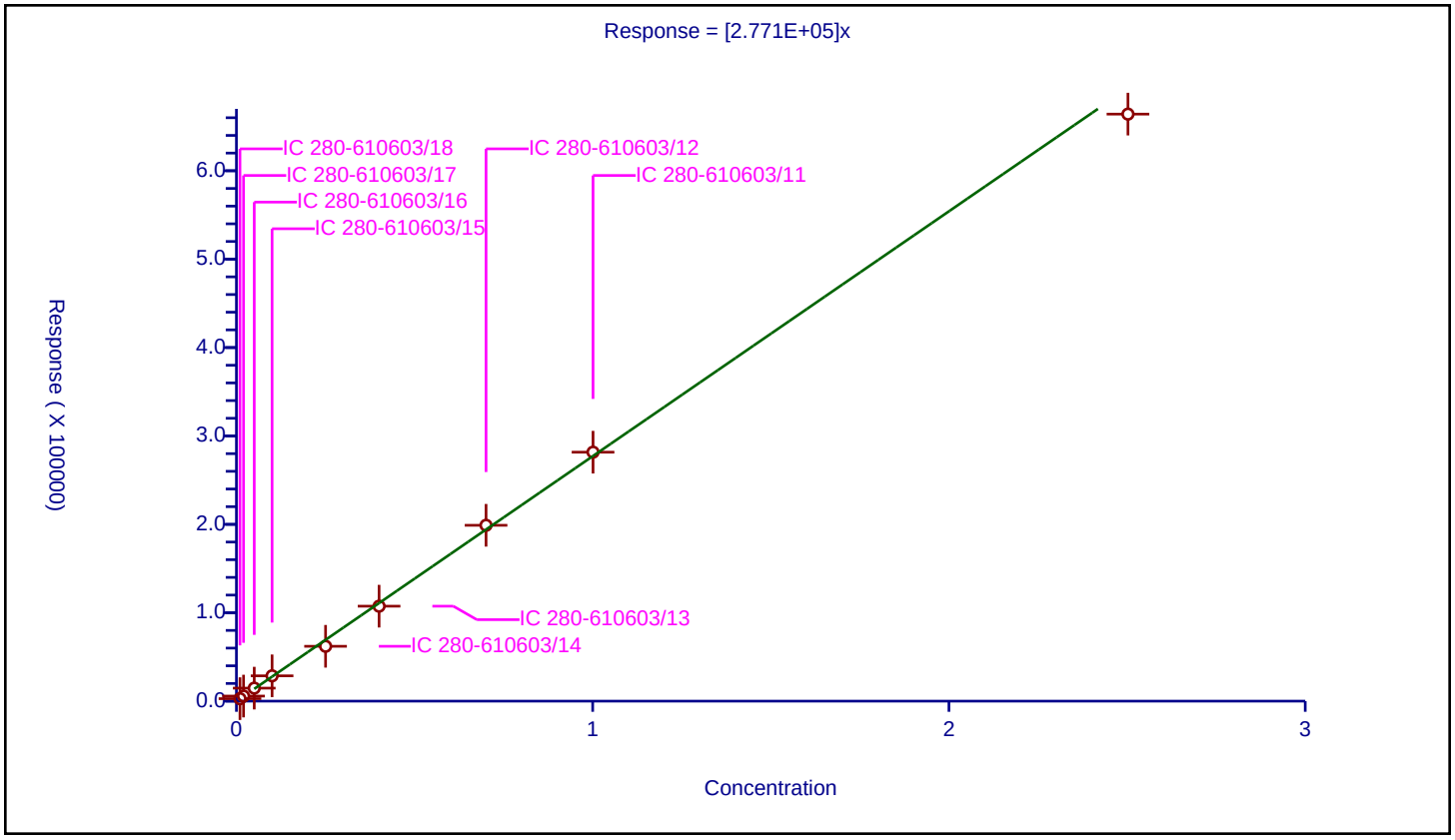
Curve Coefficients

Intercept:	0
Slope:	2.771E+05

Error Coefficients

Standard Error:	11000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/18	0.01001	2804.0			280119.88012	Y
2	IC 280-610603/17	0.02002	5728.0			286113.886114	Y
3	IC 280-610603/16	0.05005	14733.0			294365.634366	Y
4	IC 280-610603/15	0.1001	28641.0			286123.876124	Y
5	IC 280-610603/14	0.25025	62056.0			247976.023976	Y
6	IC 280-610603/13	0.4004	107420.0			268281.718282	Y
7	IC 280-610603/12	0.7007	198949.0			283928.928215	Y
8	IC 280-610603/11	1.001	281655.0			281373.626374	Y
9	IC 280-610603/10	2.5025	664081.0			265367.032967	Y



Calibration / HMX

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

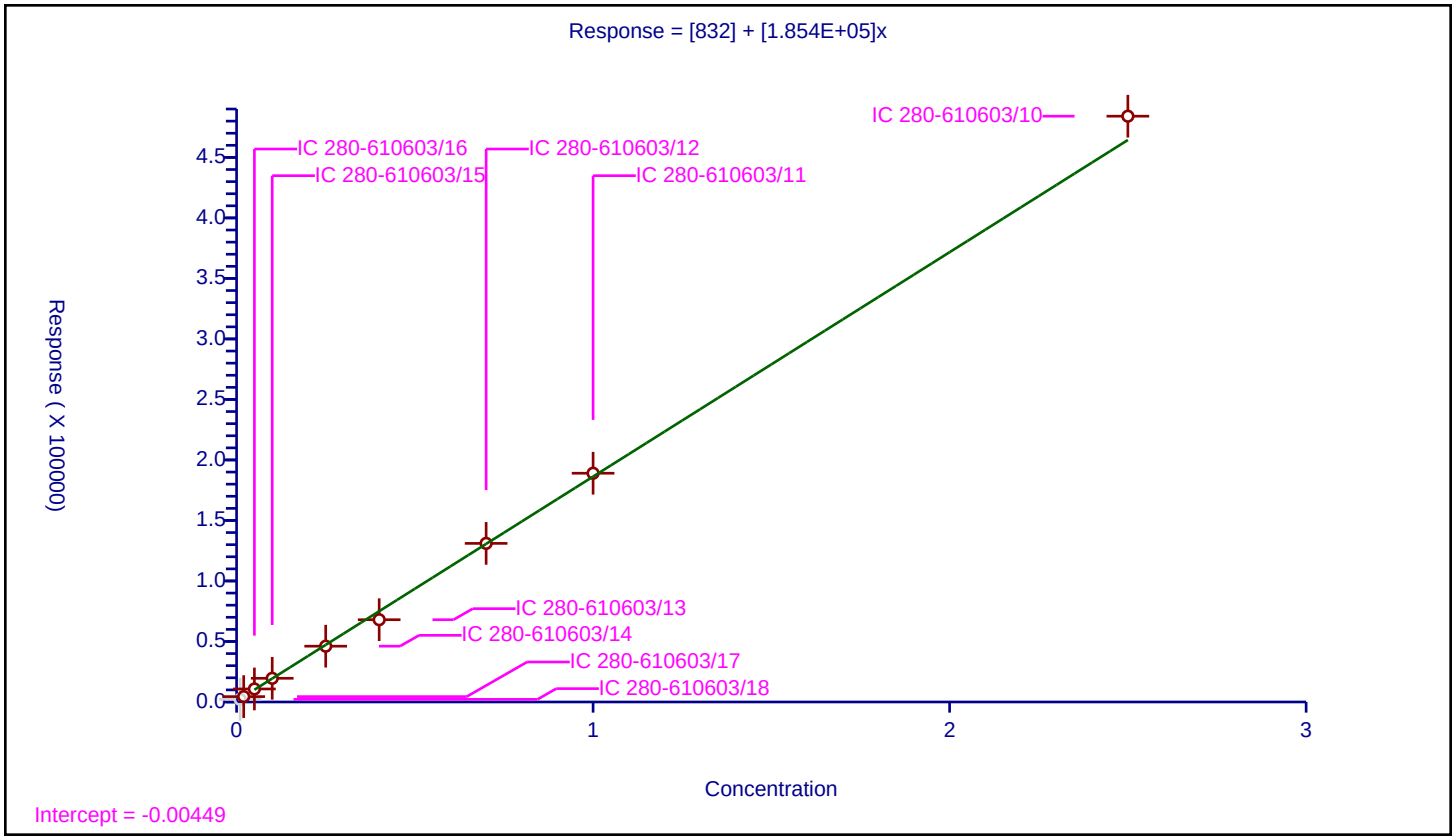
Curve Coefficients

Intercept:	832
Slope:	1.854E+05

Error Coefficients

Standard Error:	8620
Relative Standard Error:	5.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/18	0.01	2178.0			217800.0	N
2	IC 280-610603/17	0.02	4449.0			222450.0	Y
3	IC 280-610603/16	0.05	10761.0			215220.0	Y
4	IC 280-610603/15	0.1	19573.0			195730.0	Y
5	IC 280-610603/14	0.25	46110.0			184440.0	Y
6	IC 280-610603/13	0.4	67993.0			169982.5	Y
7	IC 280-610603/12	0.7	131068.0			187240.0	Y
8	IC 280-610603/11	1.0	189027.0			189027.0	Y
9	IC 280-610603/10	2.5	484081.0			193632.4	Y



Calibration / MNX

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

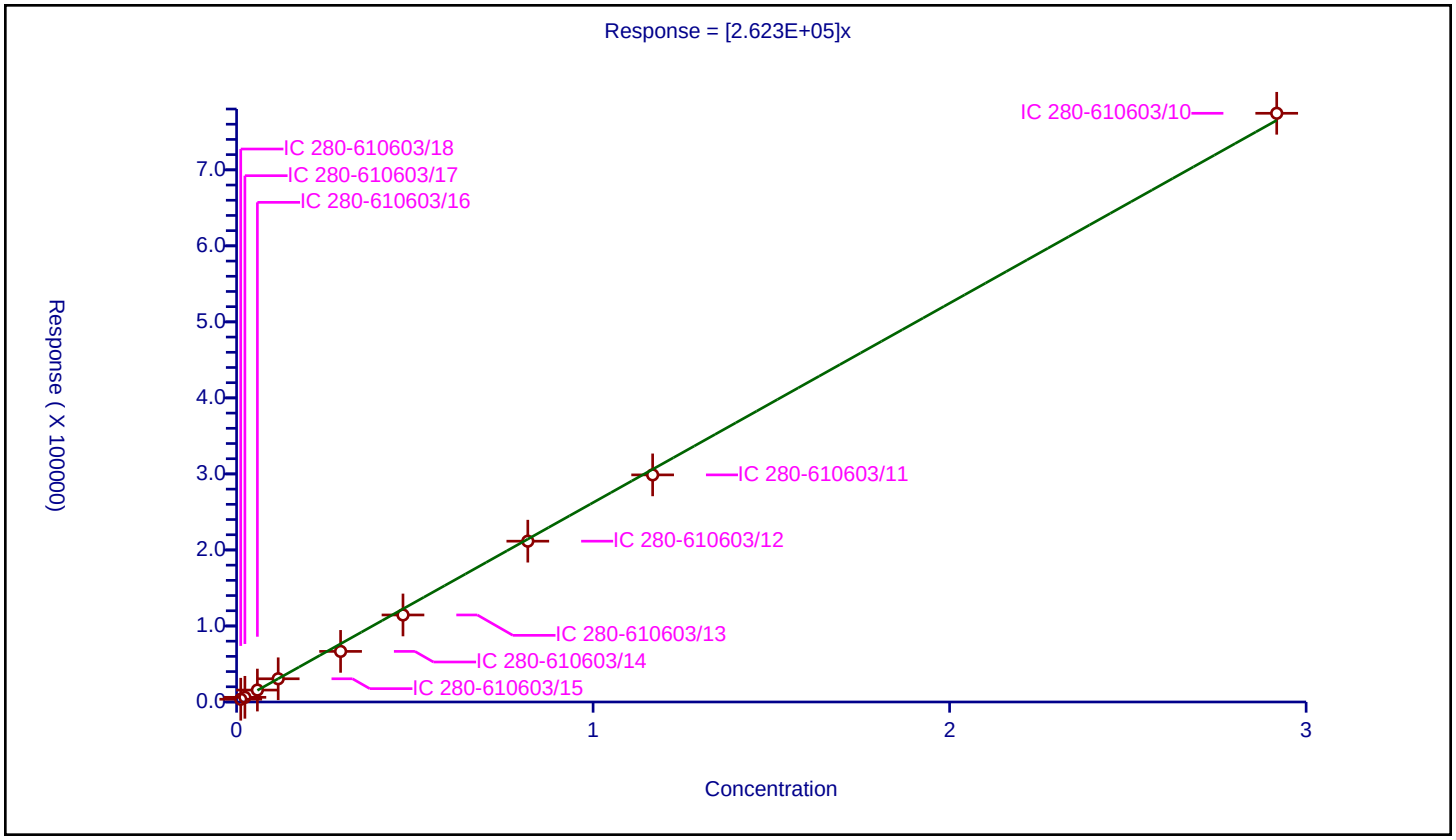
Curve Coefficients

Intercept:	0
Slope:	2.623E+05

Error Coefficients

Standard Error:	6210
Relative Standard Error:	8.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/18	0.01167	3646.0			312425.021422	Y
2	IC 280-610603/17	0.02334	6155.0			263710.368466	Y
3	IC 280-610603/16	0.05835	15694.0			268963.153385	Y
4	IC 280-610603/15	0.1167	30530.0			261610.968295	Y
5	IC 280-610603/14	0.29175	66549.0			228102.827763	Y
6	IC 280-610603/13	0.4668	114487.0			245259.211654	Y
7	IC 280-610603/12	0.8169	211518.0			258927.653324	Y
8	IC 280-610603/11	1.167	298731.0			255982.005141	Y
9	IC 280-610603/10	2.9175	774370.0			265422.450728	Y



Calibration / 2,4,6-Trinitrophenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

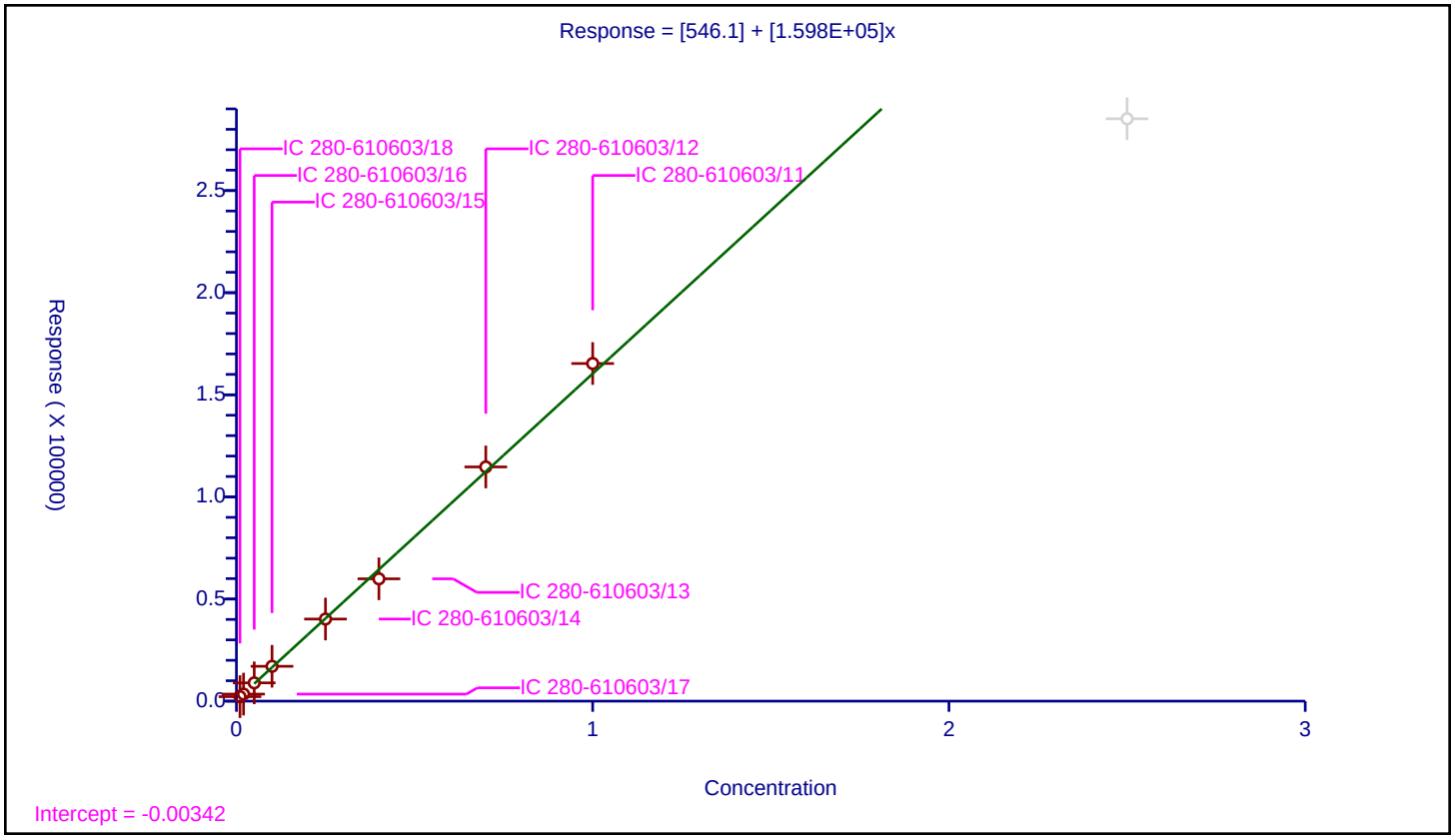
Curve Coefficients

Intercept:	546.1
Slope:	1.598E+05

Error Coefficients

Standard Error:	2930
Relative Standard Error:	5.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/18	0.01	2197.0			219700.0	Y
2	IC 280-610603/17	0.02	3453.0			172650.0	Y
3	IC 280-610603/16	0.05	8950.0			179000.0	Y
4	IC 280-610603/15	0.1	17060.0			170600.0	Y
5	IC 280-610603/14	0.25	40202.0			160808.0	Y
6	IC 280-610603/13	0.4	59892.0			149730.0	Y
7	IC 280-610603/12	0.7	114679.0			163827.142857	Y
8	IC 280-610603/11	1.0	165319.0			165319.0	Y
9	IC 280-610603/10	2.5	285146.0			114058.4	N



Calibration / RDX

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

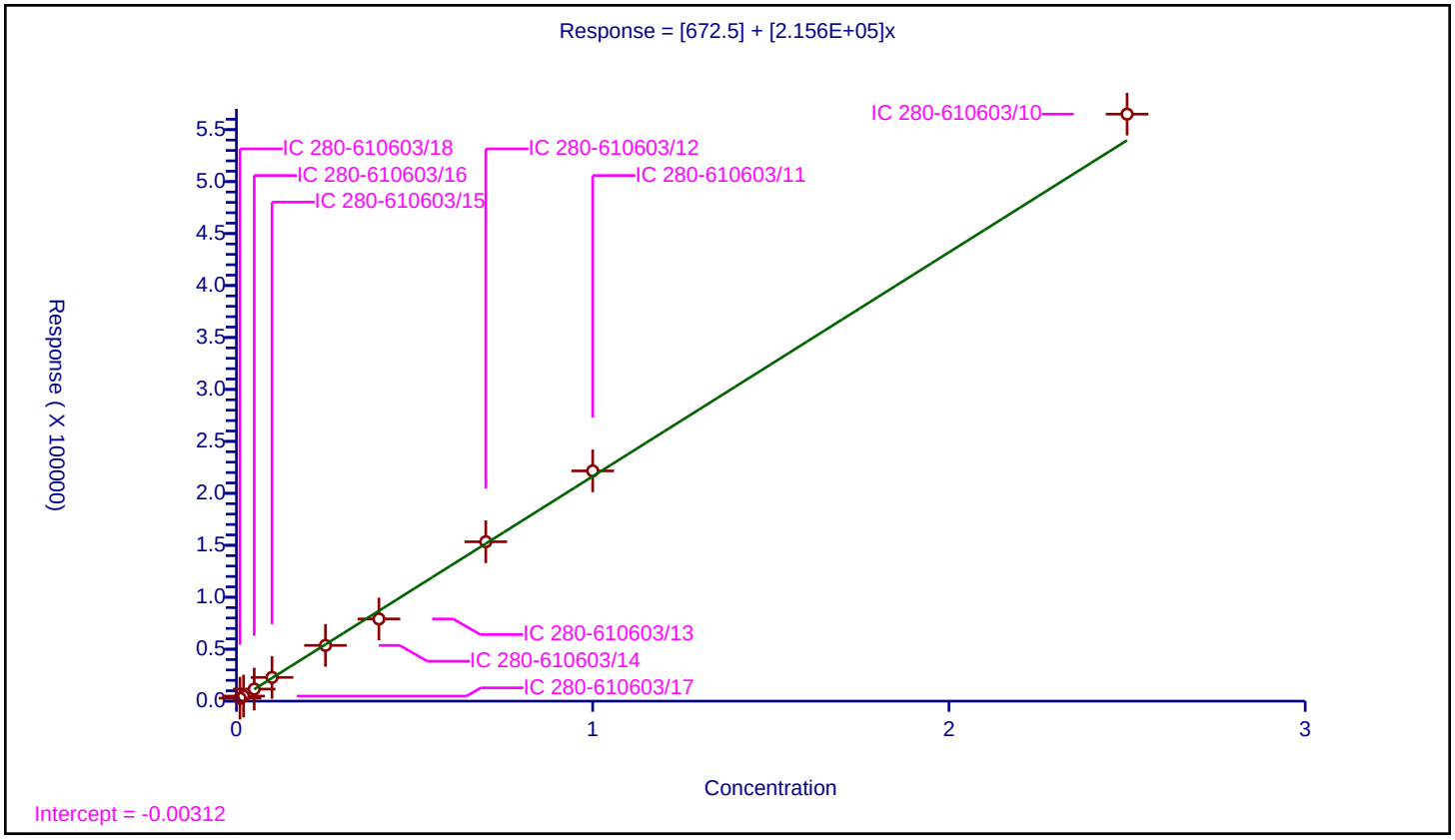
Curve Coefficients

Intercept:	672.5
Slope:	2.156E+05

Error Coefficients

Standard Error:	10200
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/18	0.01	2852.0			285200.0	Y
2	IC 280-610603/17	0.02	4863.0			243150.0	Y
3	IC 280-610603/16	0.05	11621.0			232420.0	Y
4	IC 280-610603/15	0.1	22827.0			228270.0	Y
5	IC 280-610603/14	0.25	53643.0			214572.0	Y
6	IC 280-610603/13	0.4	79113.0			197782.5	Y
7	IC 280-610603/12	0.7	153380.0			219114.285714	Y
8	IC 280-610603/11	1.0	221588.0			221588.0	Y
9	IC 280-610603/10	2.5	564953.0			225981.2	Y



Calibration / Nitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

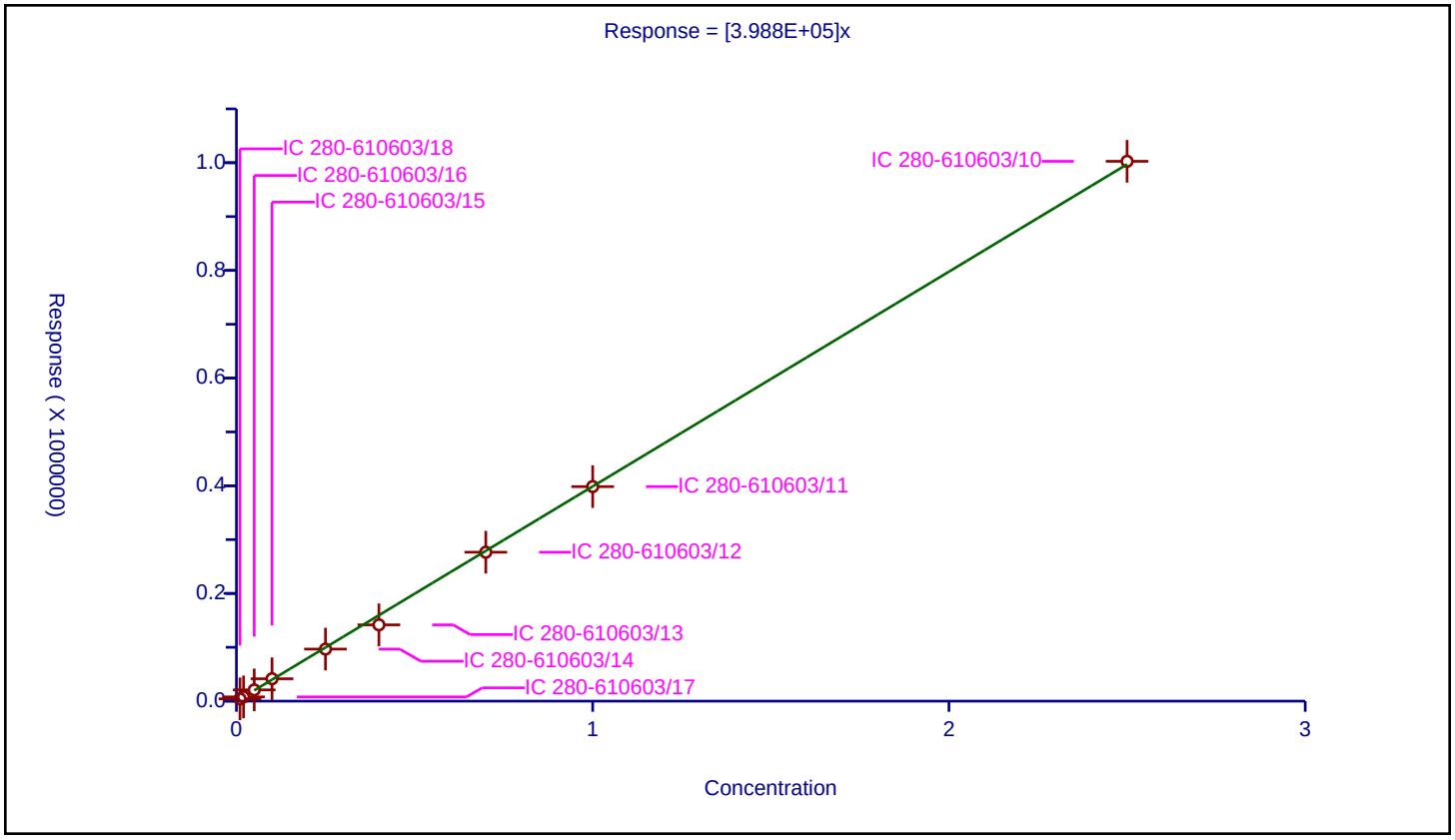
Curve Coefficients

Intercept:	0
Slope:	3.988E+05

Error Coefficients

Standard Error:	6800
Relative Standard Error:	5.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/18	0.01	4269.0			426900.0	Y
2	IC 280-610603/17	0.02	7871.0			393550.0	Y
3	IC 280-610603/16	0.05	20883.0			417660.0	Y
4	IC 280-610603/15	0.1	41585.0			415850.0	Y
5	IC 280-610603/14	0.25	96681.0			386724.0	Y
6	IC 280-610603/13	0.4	141679.0			354197.5	Y
7	IC 280-610603/12	0.7	276577.0			395110.0	Y
8	IC 280-610603/11	1.0	398454.0			398454.0	Y
9	IC 280-610603/10	2.5	1002641.0			401056.4	Y



Calibration / 1,2-Dinitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

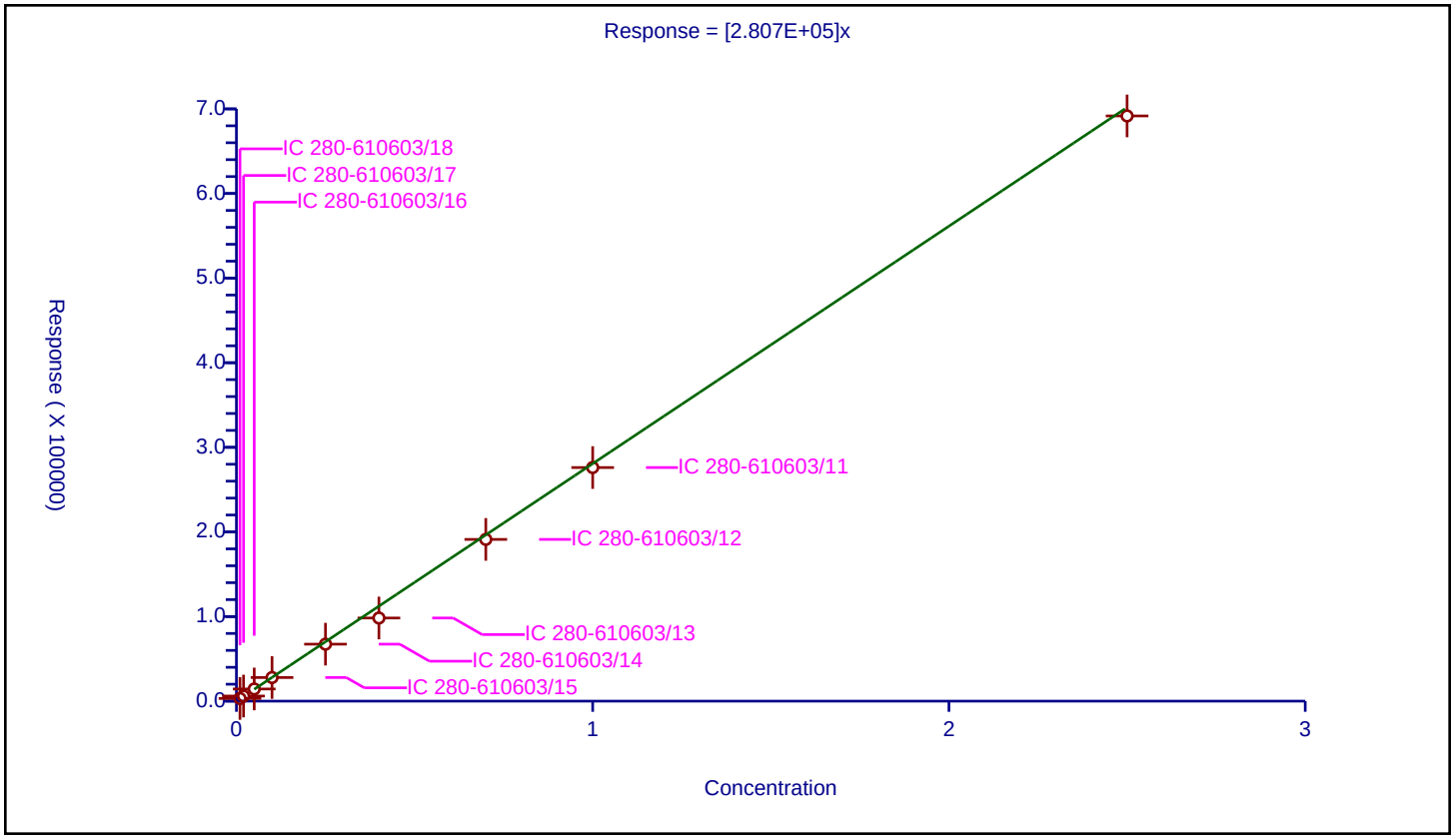
Curve Coefficients

Intercept:	0
Slope:	2.807E+05

Error Coefficients

Standard Error:	6660
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/18	0.01	3169.0			316900.0	Y
2	IC 280-610603/17	0.02	6038.0			301900.0	Y
3	IC 280-610603/16	0.05	14379.0			287580.0	Y
4	IC 280-610603/15	0.1	27893.0			278930.0	Y
5	IC 280-610603/14	0.25	67346.0			269384.0	Y
6	IC 280-610603/13	0.4	98279.0			245697.5	Y
7	IC 280-610603/12	0.7	191173.0			273104.285714	Y
8	IC 280-610603/11	1.0	276103.0			276103.0	Y
9	IC 280-610603/10	2.5	691686.0			276674.4	Y



Calibration / 3,5-Dinitroaniline

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

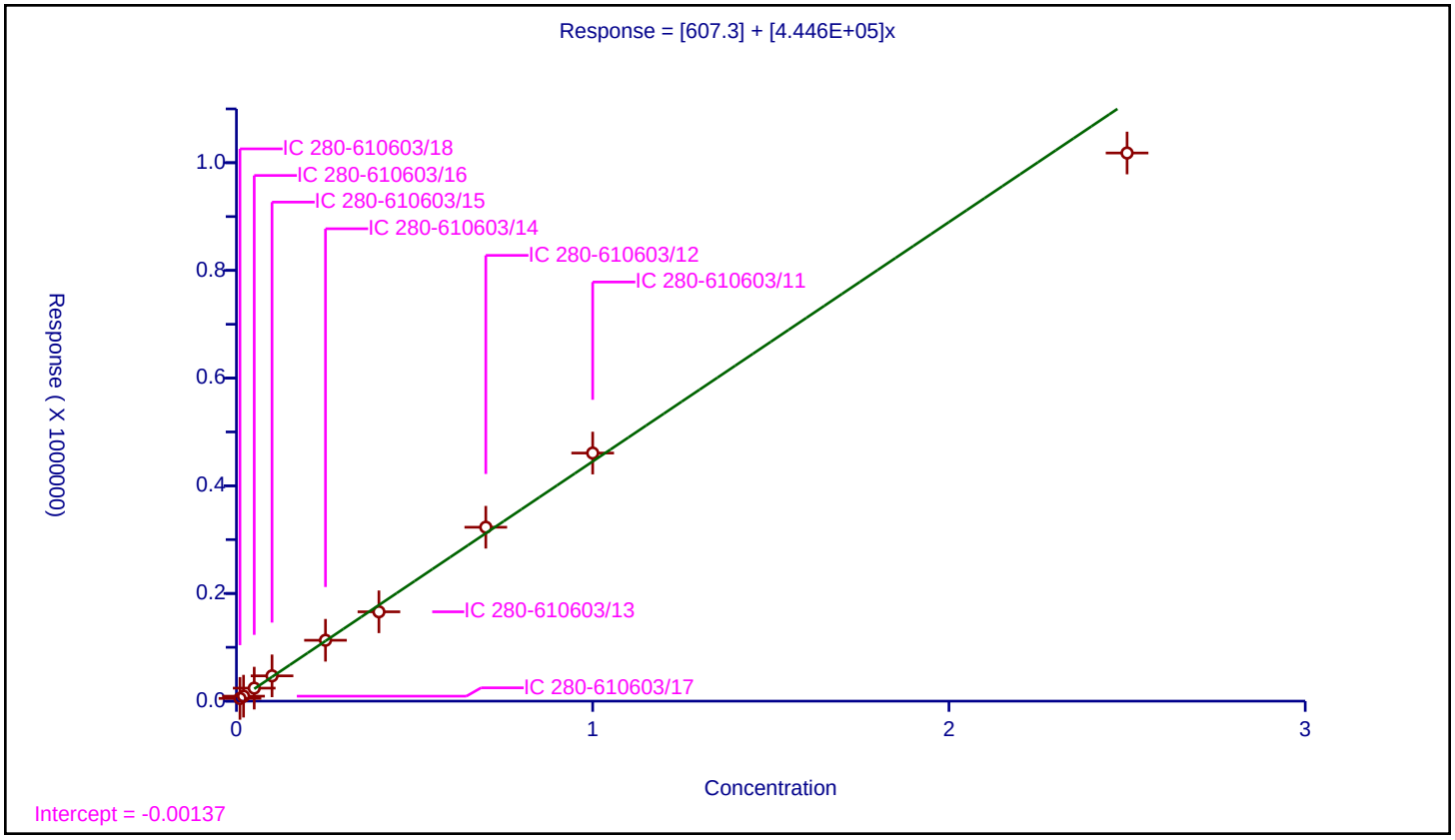
Curve Coefficients

Intercept:	607.3
Slope:	4.446E+05

Error Coefficients

Standard Error:	36600
Relative Standard Error:	5.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/18	0.01	5053.0			505300.0	Y
2	IC 280-610603/17	0.02	9221.0			461050.0	Y
3	IC 280-610603/16	0.05	24176.0			483520.0	Y
4	IC 280-610603/15	0.1	46980.0			469800.0	Y
5	IC 280-610603/14	0.25	113054.0			452216.0	Y
6	IC 280-610603/13	0.4	165924.0			414810.0	Y
7	IC 280-610603/12	0.7	322983.0			461404.285714	Y
8	IC 280-610603/11	1.0	460771.0			460771.0	Y
9	IC 280-610603/10	2.5	1018070.0			407228.0	Y



Calibration / 1,3-Dinitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

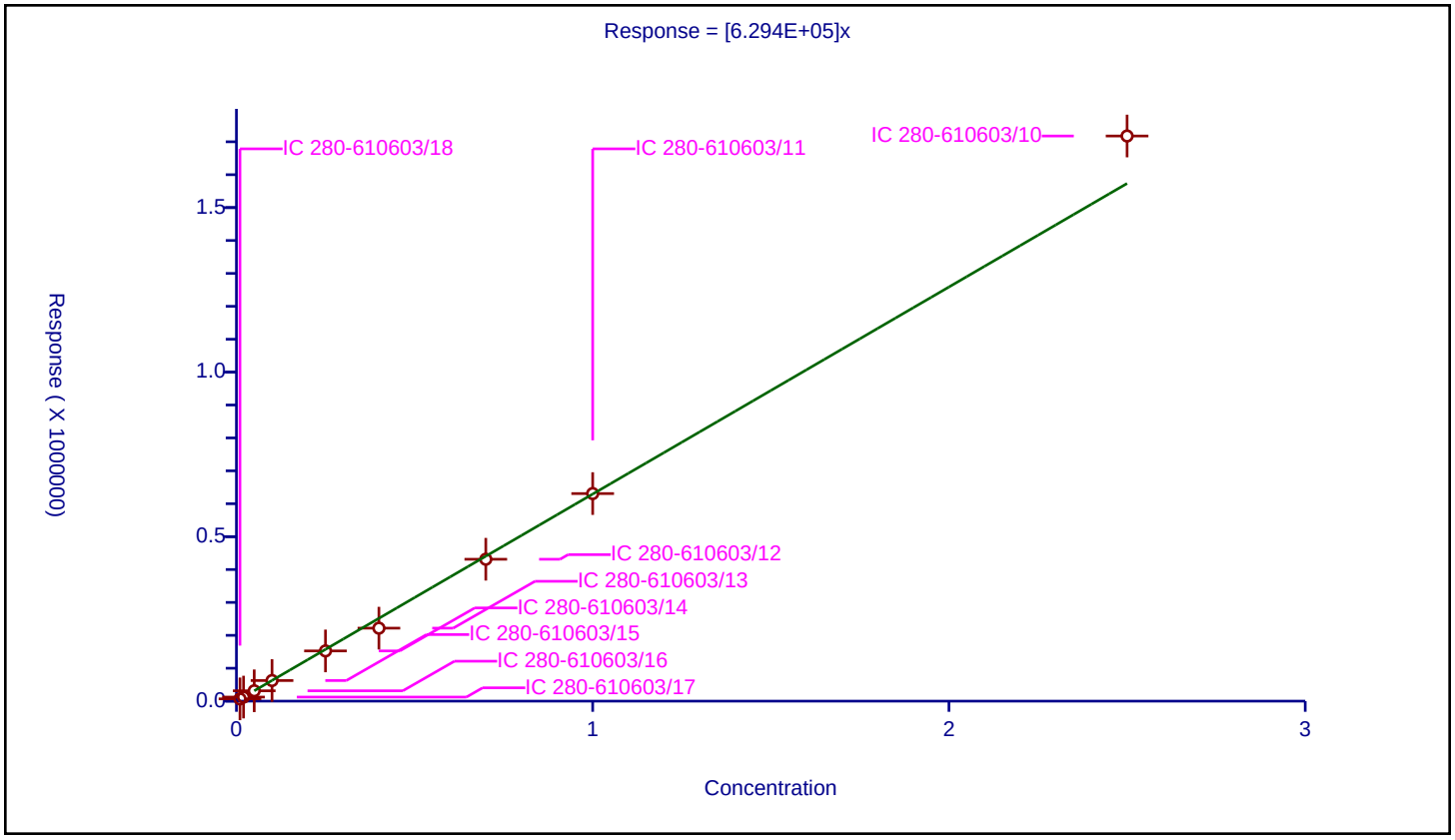
Curve Coefficients

Intercept:	0
Slope:	6.294E+05

Error Coefficients

Standard Error:	52200
Relative Standard Error:	6.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/18	0.01	6946.0			694600.0	Y
2	IC 280-610603/17	0.02	12307.0			615350.0	Y
3	IC 280-610603/16	0.05	31459.0			629180.0	Y
4	IC 280-610603/15	0.1	62596.0			625960.0	Y
5	IC 280-610603/14	0.25	152658.0			610632.0	Y
6	IC 280-610603/13	0.4	221798.0			554495.0	Y
7	IC 280-610603/12	0.7	431248.0			616068.571429	Y
8	IC 280-610603/11	1.0	630835.0			630835.0	Y
9	IC 280-610603/10	2.5	1717605.0			687042.0	Y



Calibration / Nitroglycerin

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

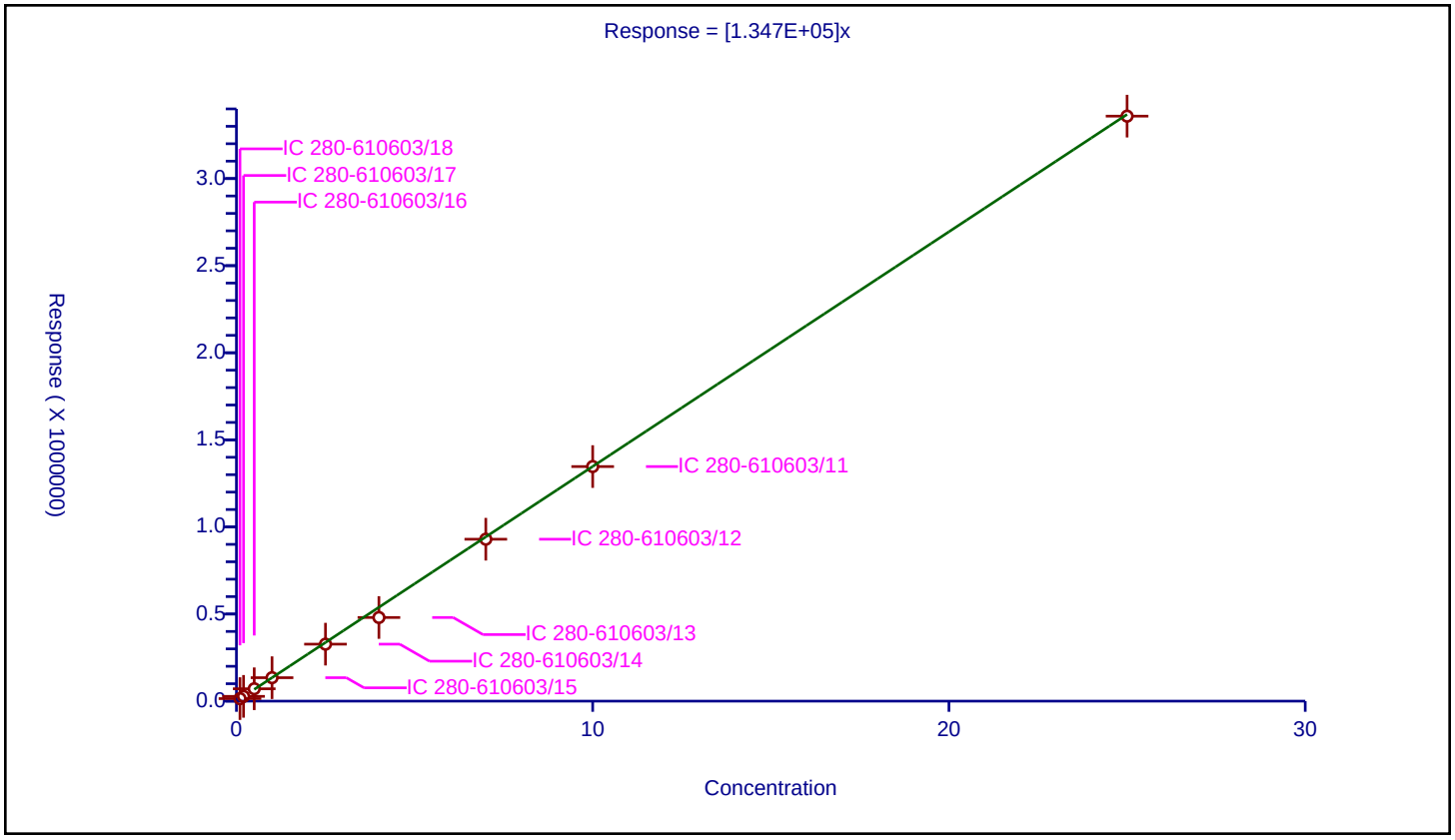
Curve Coefficients

Intercept:	0
Slope:	1.347E+05

Error Coefficients

Standard Error:	21900
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/18	0.1	14603.0			146030.0	Y
2	IC 280-610603/17	0.2	27409.0			137045.0	Y
3	IC 280-610603/16	0.5	71084.0			142168.0	Y
4	IC 280-610603/15	1.0	134661.0			134661.0	Y
5	IC 280-610603/14	2.5	327195.0			130878.0	Y
6	IC 280-610603/13	4.0	480119.0			120029.75	Y
7	IC 280-610603/12	7.0	929634.0			132804.857143	Y
8	IC 280-610603/11	10.0	1346659.0			134665.9	Y
9	IC 280-610603/10	25.0	3358347.0			134333.88	Y



Calibration / o-Nitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

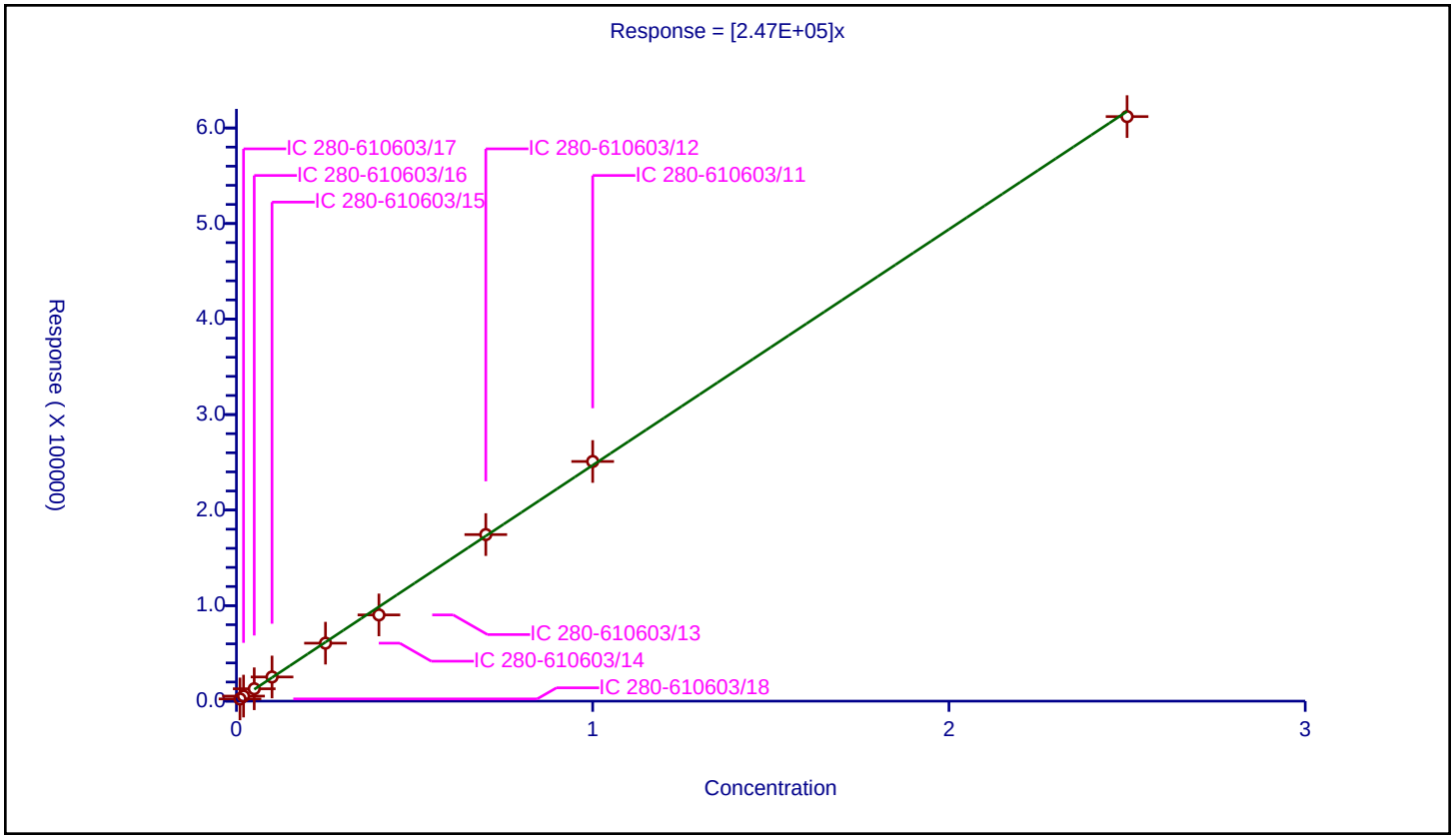
Curve Coefficients

Intercept:	0
Slope:	2.47E+05

Error Coefficients

Standard Error:	3910
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/18	0.01	2336.0			233600.0	Y
2	IC 280-610603/17	0.02	5281.0			264050.0	Y
3	IC 280-610603/16	0.05	12951.0			259020.0	Y
4	IC 280-610603/15	0.1	25290.0			252900.0	Y
5	IC 280-610603/14	0.25	60674.0			242696.0	Y
6	IC 280-610603/13	0.4	90266.0			225665.0	Y
7	IC 280-610603/12	0.7	174353.0			249075.714286	Y
8	IC 280-610603/11	1.0	250892.0			250892.0	Y
9	IC 280-610603/10	2.5	611929.0			244771.6	Y



Calibration / p-Nitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

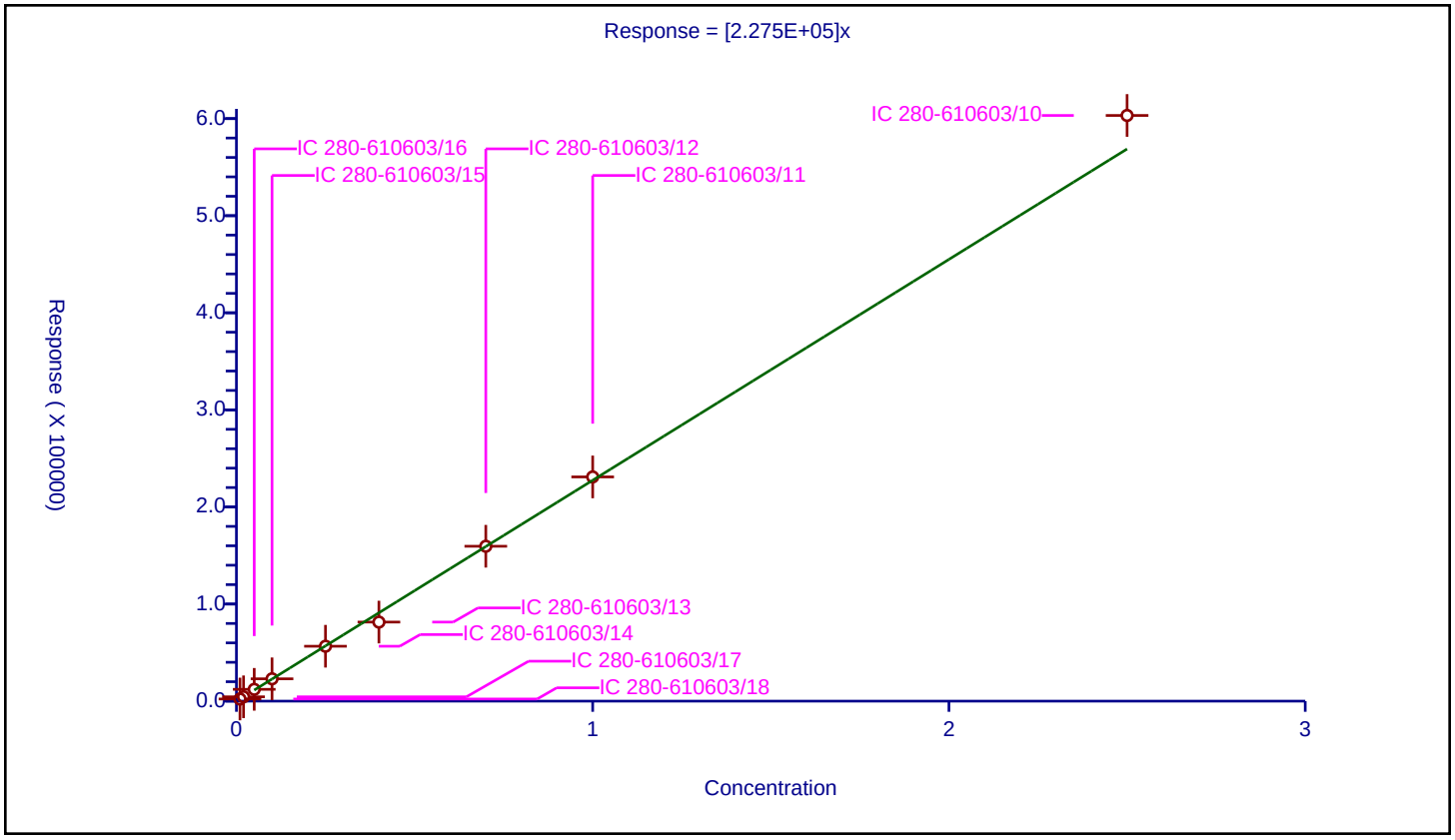
Curve Coefficients

Intercept:	0
Slope:	2.275E+05

Error Coefficients

Standard Error:	12700
Relative Standard Error:	5.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/18	0.01	2206.0			220600.0	Y
2	IC 280-610603/17	0.02	4466.0			223300.0	Y
3	IC 280-610603/16	0.05	12179.0			243580.0	Y
4	IC 280-610603/15	0.1	23002.0			230020.0	Y
5	IC 280-610603/14	0.25	56555.0			226220.0	Y
6	IC 280-610603/13	0.4	81428.0			203570.0	Y
7	IC 280-610603/12	0.7	159520.0			227885.714286	Y
8	IC 280-610603/11	1.0	230951.0			230951.0	Y
9	IC 280-610603/10	2.5	603215.0			241286.0	Y



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

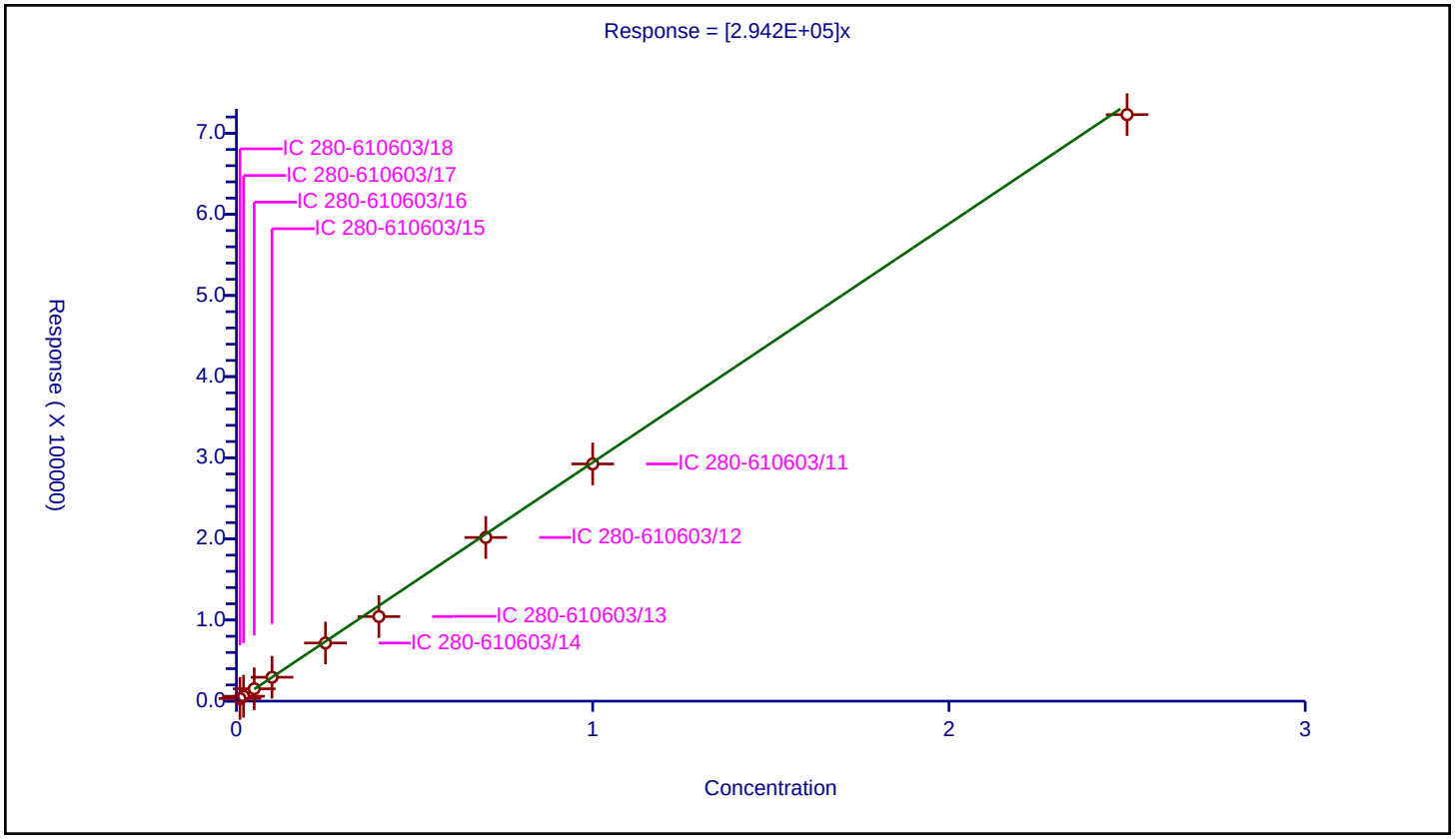
Curve Coefficients

Intercept:	0
Slope:	2.942E+05

Error Coefficients

Standard Error:	6740
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/18	0.01	3275.0			327500.0	Y
2	IC 280-610603/17	0.02	6064.0			303200.0	Y
3	IC 280-610603/16	0.05	15265.0			305300.0	Y
4	IC 280-610603/15	0.1	29472.0			294720.0	Y
5	IC 280-610603/14	0.25	71678.0			286712.0	Y
6	IC 280-610603/13	0.4	104292.0			260730.0	Y
7	IC 280-610603/12	0.7	201729.0			288184.285714	Y
8	IC 280-610603/11	1.0	292369.0			292369.0	Y
9	IC 280-610603/10	2.5	722940.0			289176.0	Y



Calibration / m-Nitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

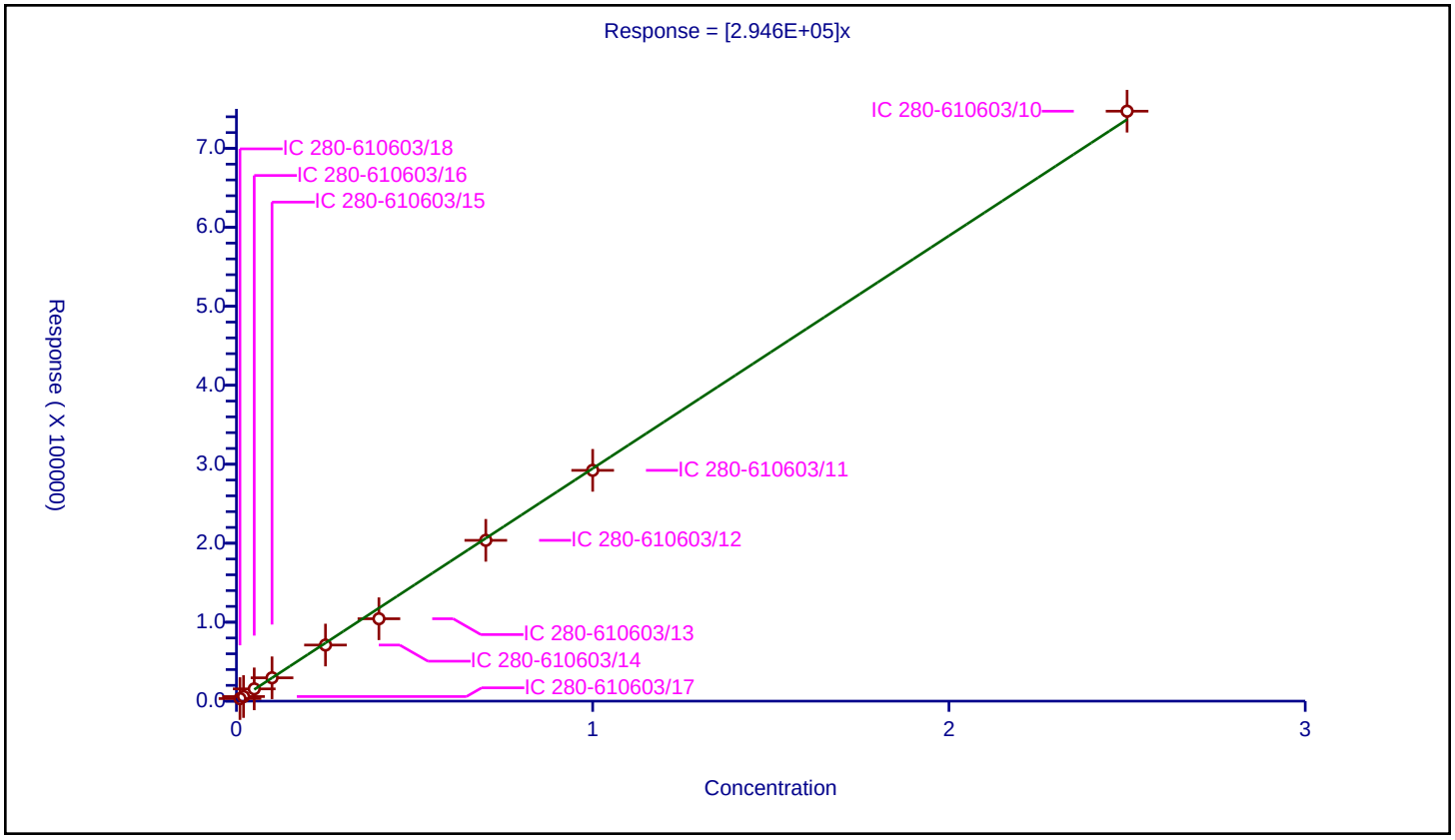
Curve Coefficients

Intercept:	0
Slope:	2.946E+05

Error Coefficients

Standard Error:	6260
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/18	0.01	3269.0			326900.0	Y
2	IC 280-610603/17	0.02	5823.0			291150.0	Y
3	IC 280-610603/16	0.05	15546.0			310920.0	Y
4	IC 280-610603/15	0.1	29569.0			295690.0	Y
5	IC 280-610603/14	0.25	71041.0			284164.0	Y
6	IC 280-610603/13	0.4	104338.0			260845.0	Y
7	IC 280-610603/12	0.7	203644.0			290920.0	Y
8	IC 280-610603/11	1.0	292277.0			292277.0	Y
9	IC 280-610603/10	2.5	747102.0			298840.8	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

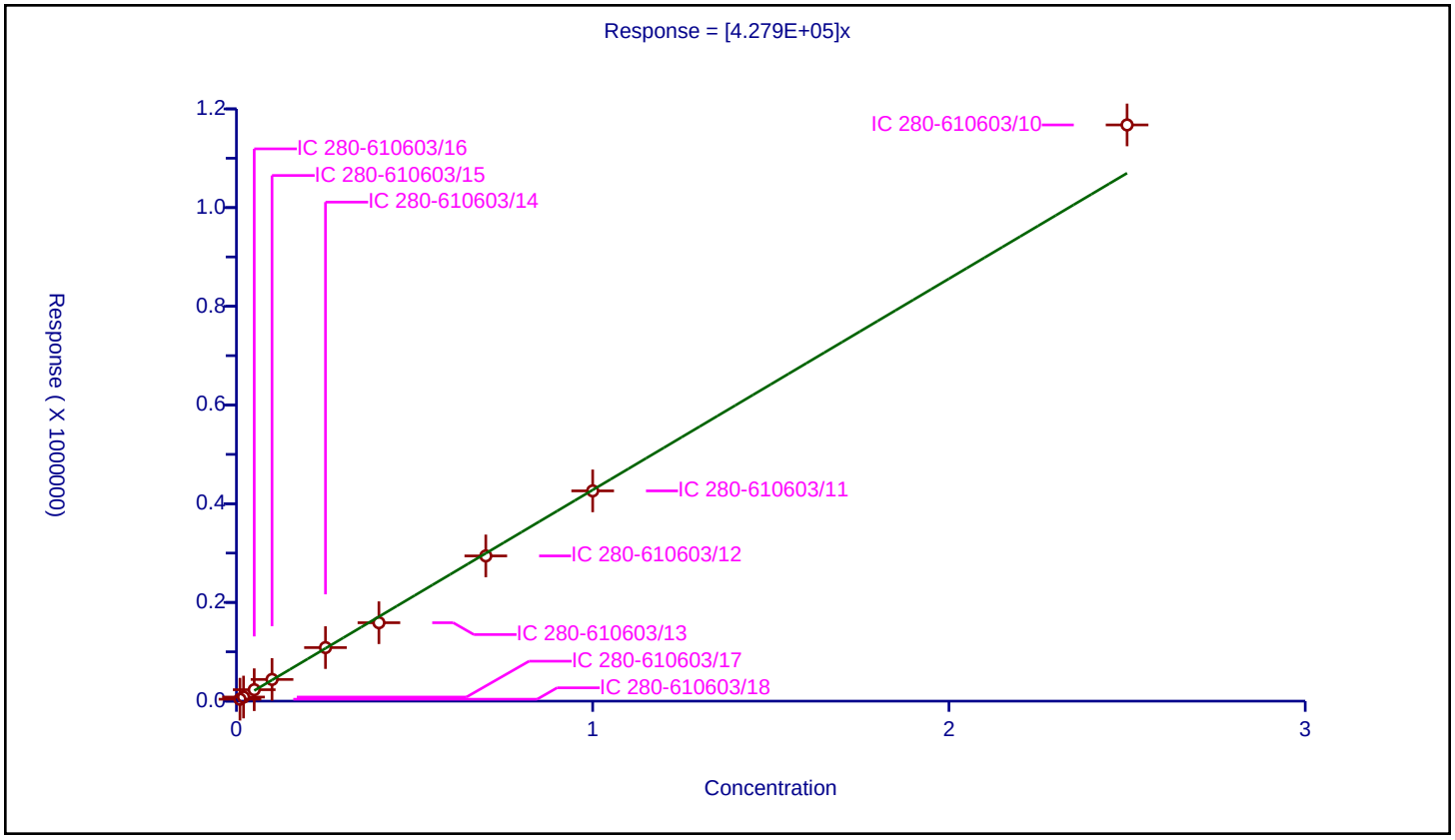
Curve Coefficients

Intercept:	0
Slope:	4.279E+05

Error Coefficients

Standard Error:	34900
Relative Standard Error:	6.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/18	0.01	3912.0			391200.0	Y
2	IC 280-610603/17	0.02	8257.0			412850.0	Y
3	IC 280-610603/16	0.05	23162.0			463240.0	Y
4	IC 280-610603/15	0.1	43948.0			439480.0	Y
5	IC 280-610603/14	0.25	108505.0			434020.0	Y
6	IC 280-610603/13	0.4	158919.0			397297.5	Y
7	IC 280-610603/12	0.7	294250.0			420357.142857	Y
8	IC 280-610603/11	1.0	426004.0			426004.0	Y
9	IC 280-610603/10	2.5	1167517.0			467006.8	Y



Calibration / 1,3,5-Trinitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

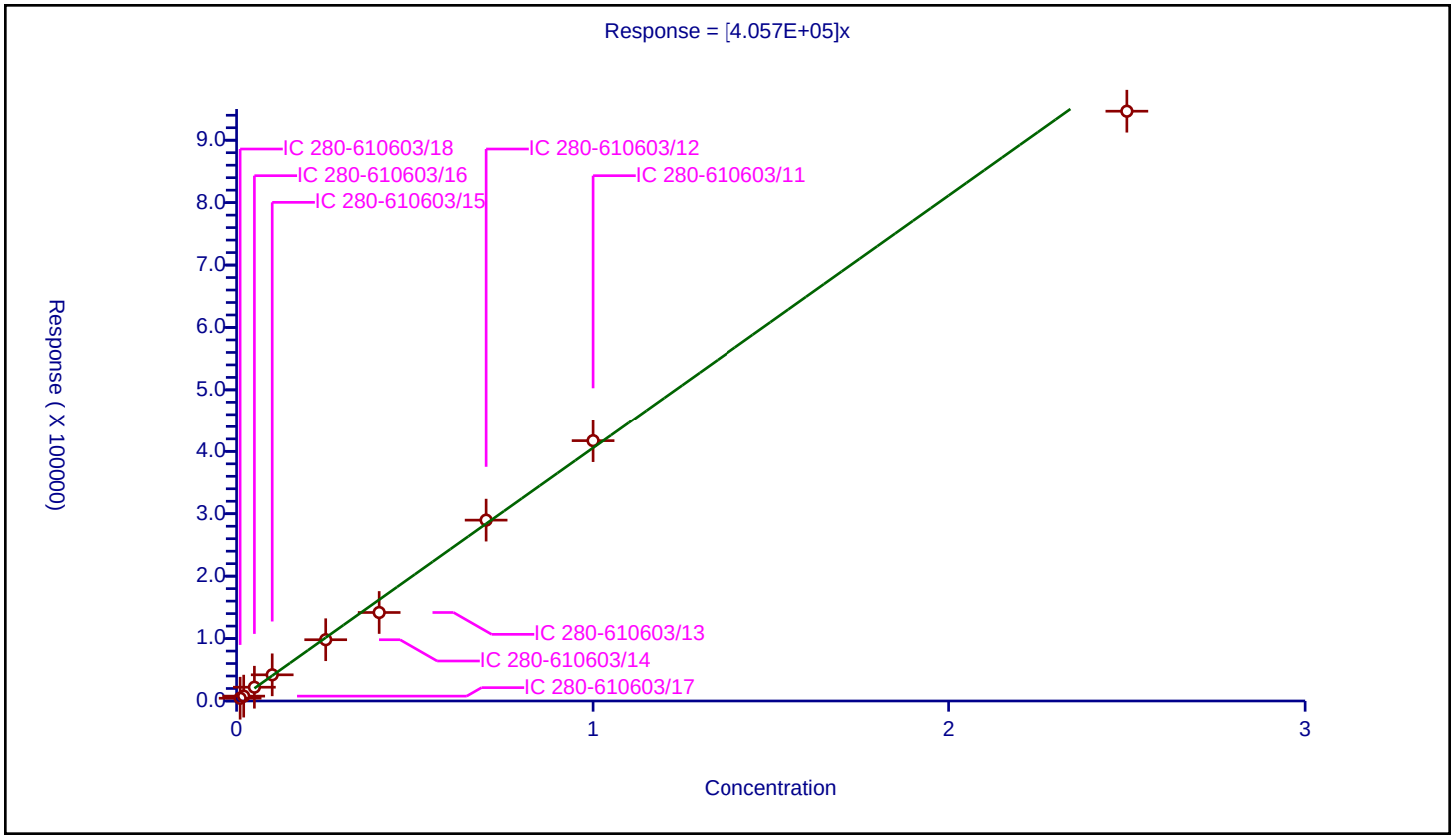
Curve Coefficients

Intercept:	0
Slope:	4.057E+05

Error Coefficients

Standard Error:	25500
Relative Standard Error:	7.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/18	0.01	4438.0			443800.0	Y
2	IC 280-610603/17	0.02	7799.0			389950.0	Y
3	IC 280-610603/16	0.05	22059.0			441180.0	Y
4	IC 280-610603/15	0.1	41946.0			419460.0	Y
5	IC 280-610603/14	0.25	98168.0			392672.0	Y
6	IC 280-610603/13	0.4	141795.0			354487.5	Y
7	IC 280-610603/12	0.7	289774.0			413962.857143	Y
8	IC 280-610603/11	1.0	417113.0			417113.0	Y
9	IC 280-610603/10	2.5	946516.0			378606.4	Y



Calibration / 2,6-Dinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

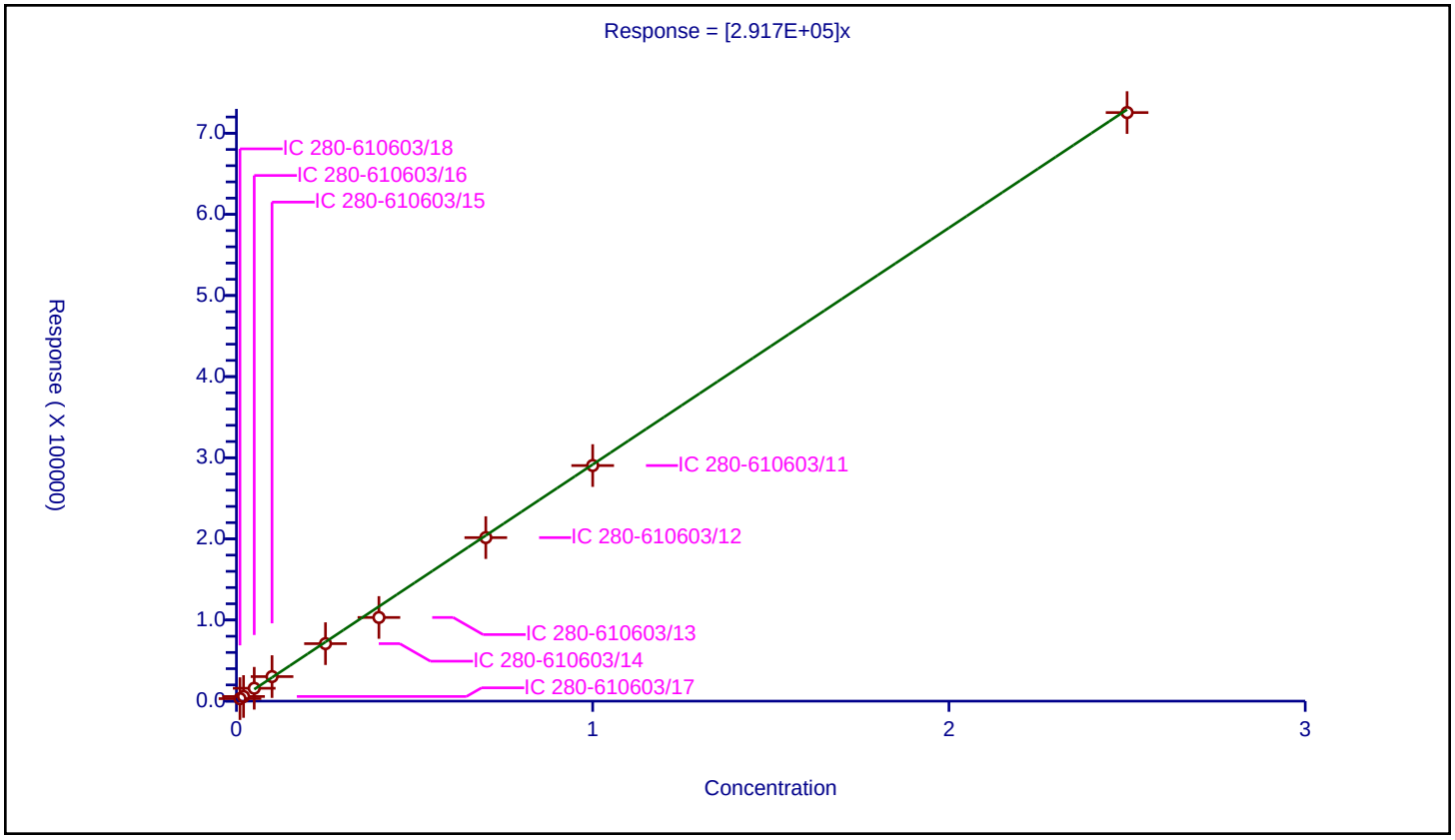
Curve Coefficients

Intercept:	0
Slope:	2.917E+05

Error Coefficients

Standard Error:	5150
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/18	0.01	3093.0			309300.0	Y
2	IC 280-610603/17	0.02	5716.0			285800.0	Y
3	IC 280-610603/16	0.05	15876.0			317520.0	Y
4	IC 280-610603/15	0.1	30260.0			302600.0	Y
5	IC 280-610603/14	0.25	70868.0			283472.0	Y
6	IC 280-610603/13	0.4	103148.0			257870.0	Y
7	IC 280-610603/12	0.7	201554.0			287934.285714	Y
8	IC 280-610603/11	1.0	290390.0			290390.0	Y
9	IC 280-610603/10	2.5	725476.0			290190.4	Y



Calibration / 2,4-Dinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

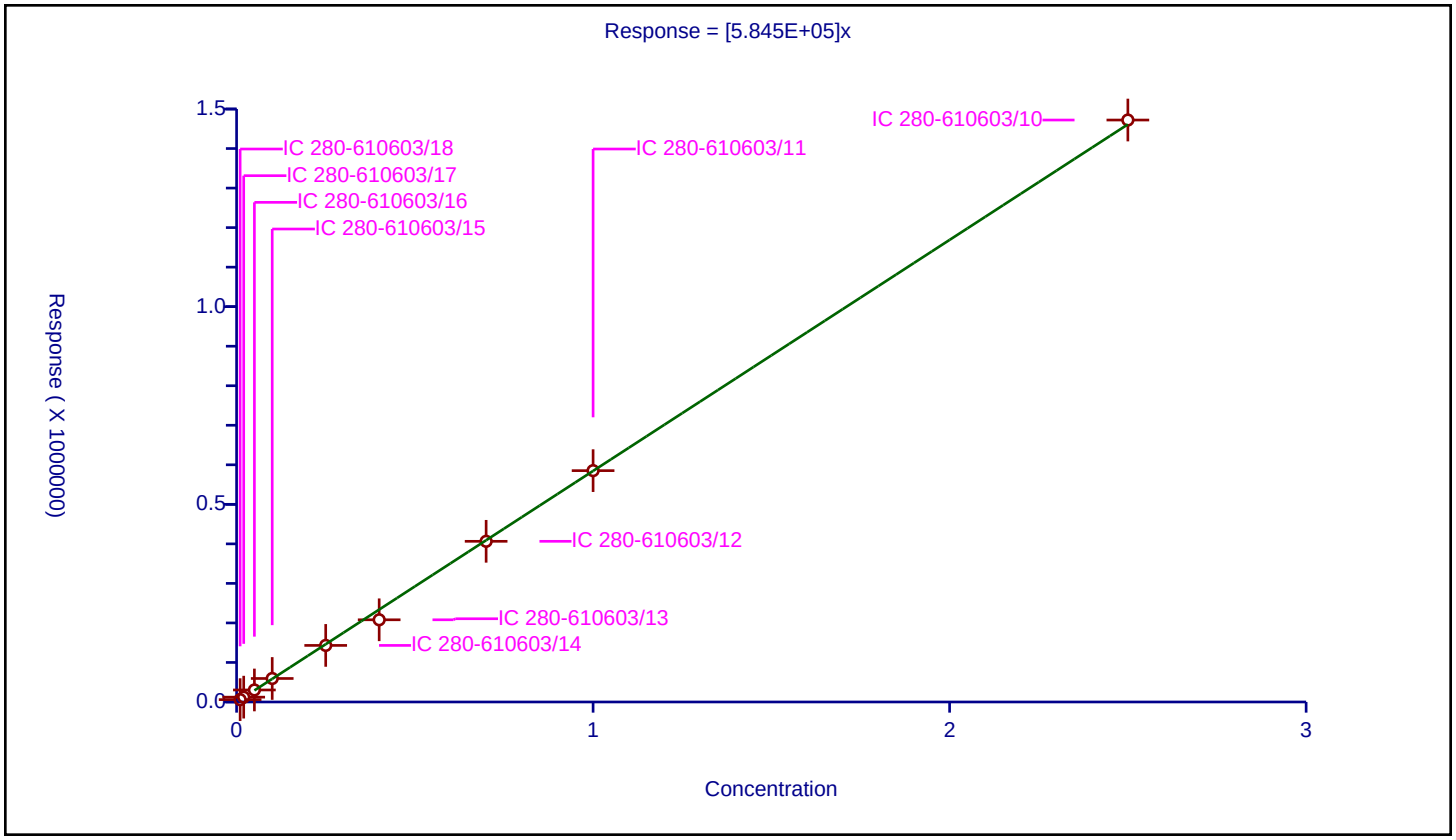
Curve Coefficients

Intercept:	0
Slope:	5.845E+05

Error Coefficients

Standard Error:	10100
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/18	0.01	5987.0			598700.0	Y
2	IC 280-610603/17	0.02	12241.0			612050.0	Y
3	IC 280-610603/16	0.05	30407.0			608140.0	Y
4	IC 280-610603/15	0.1	59433.0			594330.0	Y
5	IC 280-610603/14	0.25	143098.0			572392.0	Y
6	IC 280-610603/13	0.4	207937.0			519842.5	Y
7	IC 280-610603/12	0.7	406447.0			580638.571429	Y
8	IC 280-610603/11	1.0	585209.0			585209.0	Y
9	IC 280-610603/10	2.5	1472164.0			588865.6	Y



Calibration / Tetryl

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

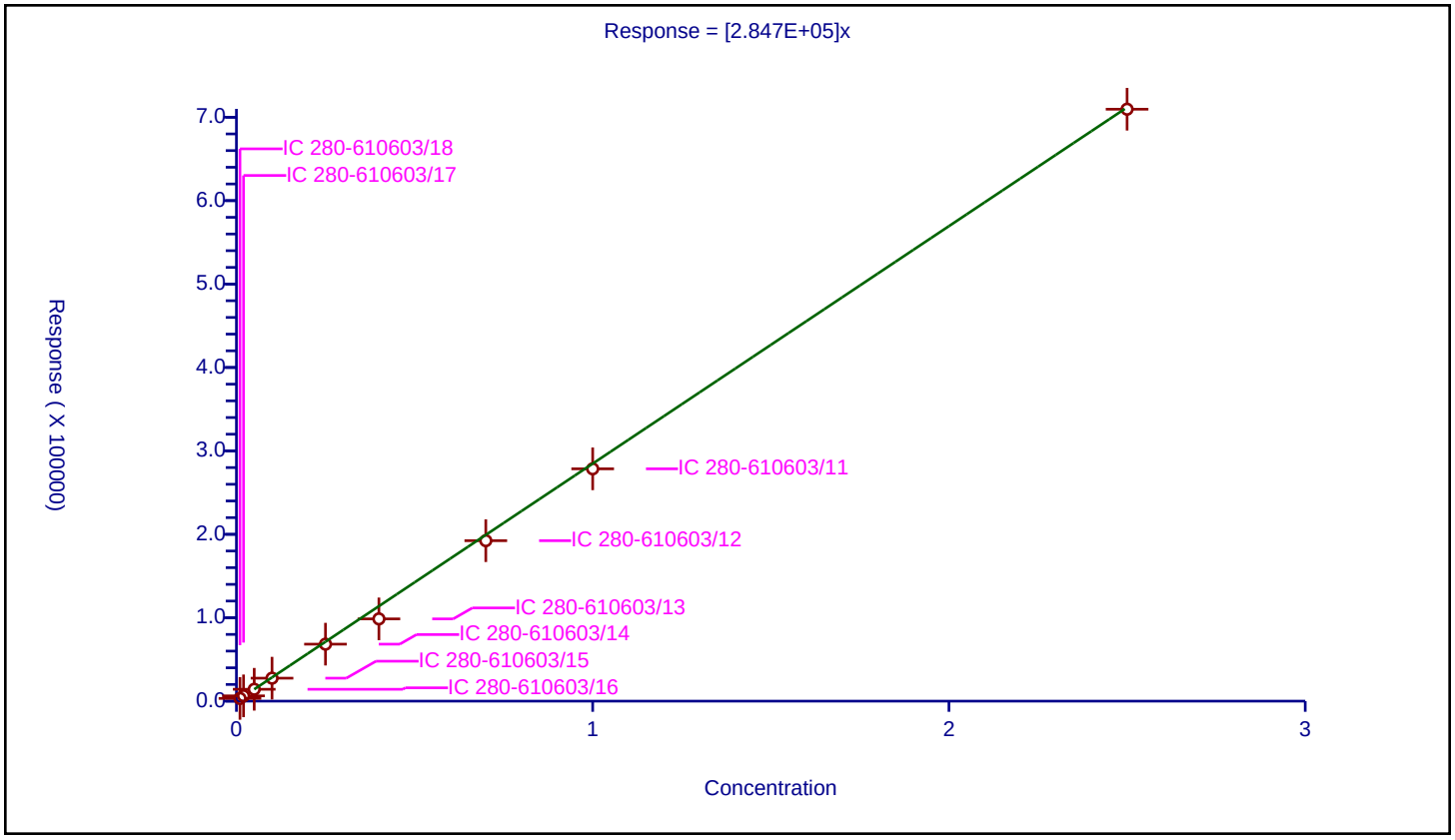
Curve Coefficients

Intercept:	0
Slope:	2.847E+05

Error Coefficients

Standard Error:	6470
Relative Standard Error:	8.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/18	0.01	3282.0			328200.0	Y
2	IC 280-610603/17	0.02	6348.0			317400.0	Y
3	IC 280-610603/16	0.05	14233.0			284660.0	Y
4	IC 280-610603/15	0.1	27534.0			275340.0	Y
5	IC 280-610603/14	0.25	68327.0			273308.0	Y
6	IC 280-610603/13	0.4	98615.0			246537.5	Y
7	IC 280-610603/12	0.7	192352.0			274788.571429	Y
8	IC 280-610603/11	1.0	278494.0			278494.0	Y
9	IC 280-610603/10	2.5	709626.0			283850.4	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

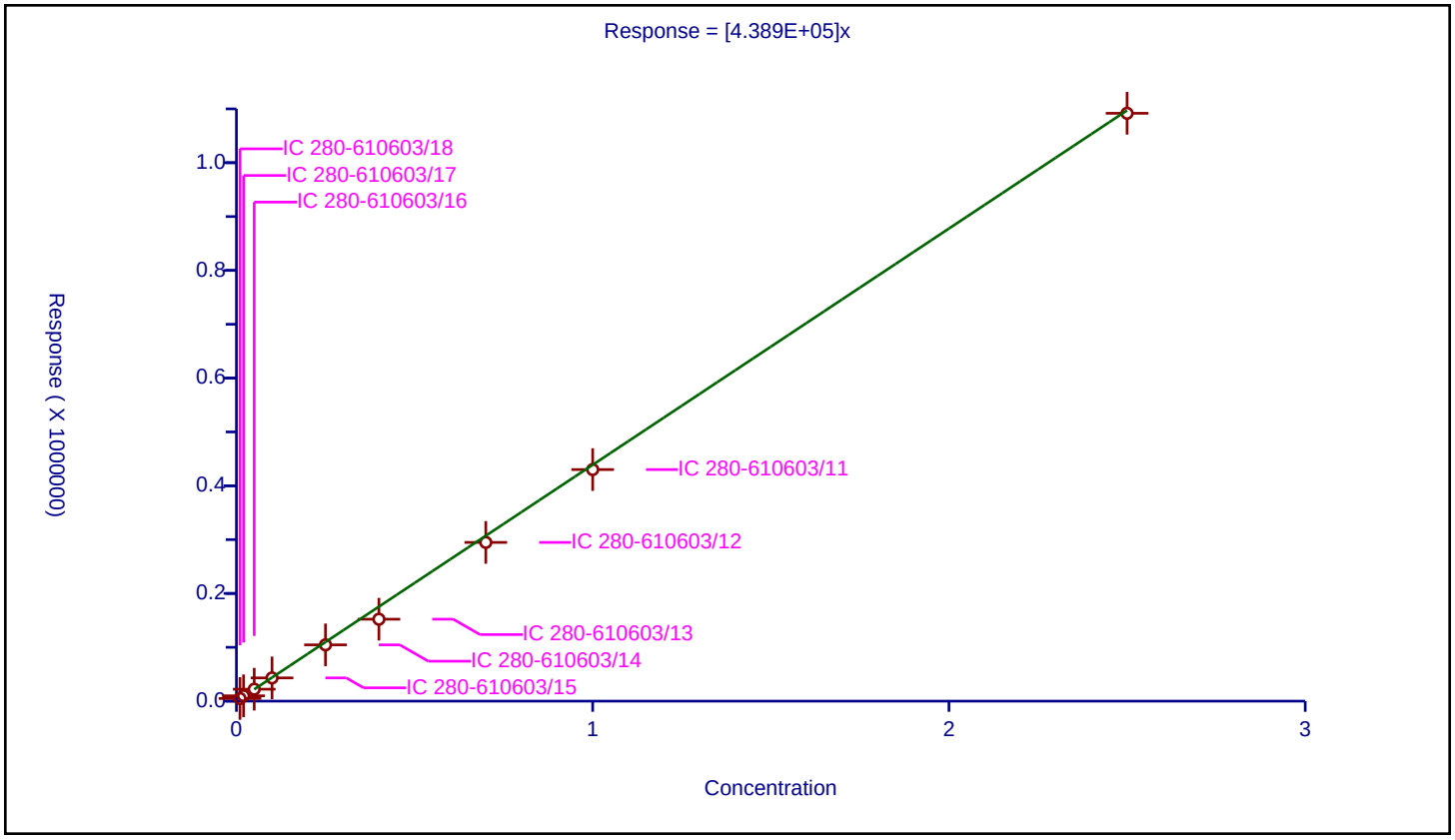
Curve Coefficients

Intercept:	0
Slope:	4.389E+05

Error Coefficients

Standard Error:	10200
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/18	0.01	4919.0			491900.0	Y
2	IC 280-610603/17	0.02	9925.0			496250.0	Y
3	IC 280-610603/16	0.05	22184.0			443680.0	Y
4	IC 280-610603/15	0.1	43136.0			431360.0	Y
5	IC 280-610603/14	0.25	104561.0			418244.0	Y
6	IC 280-610603/13	0.4	152188.0			380470.0	Y
7	IC 280-610603/12	0.7	294801.0			421144.285714	Y
8	IC 280-610603/11	1.0	430103.0			430103.0	Y
9	IC 280-610603/10	2.5	1091822.0			436728.8	Y



Calibration / PETN

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

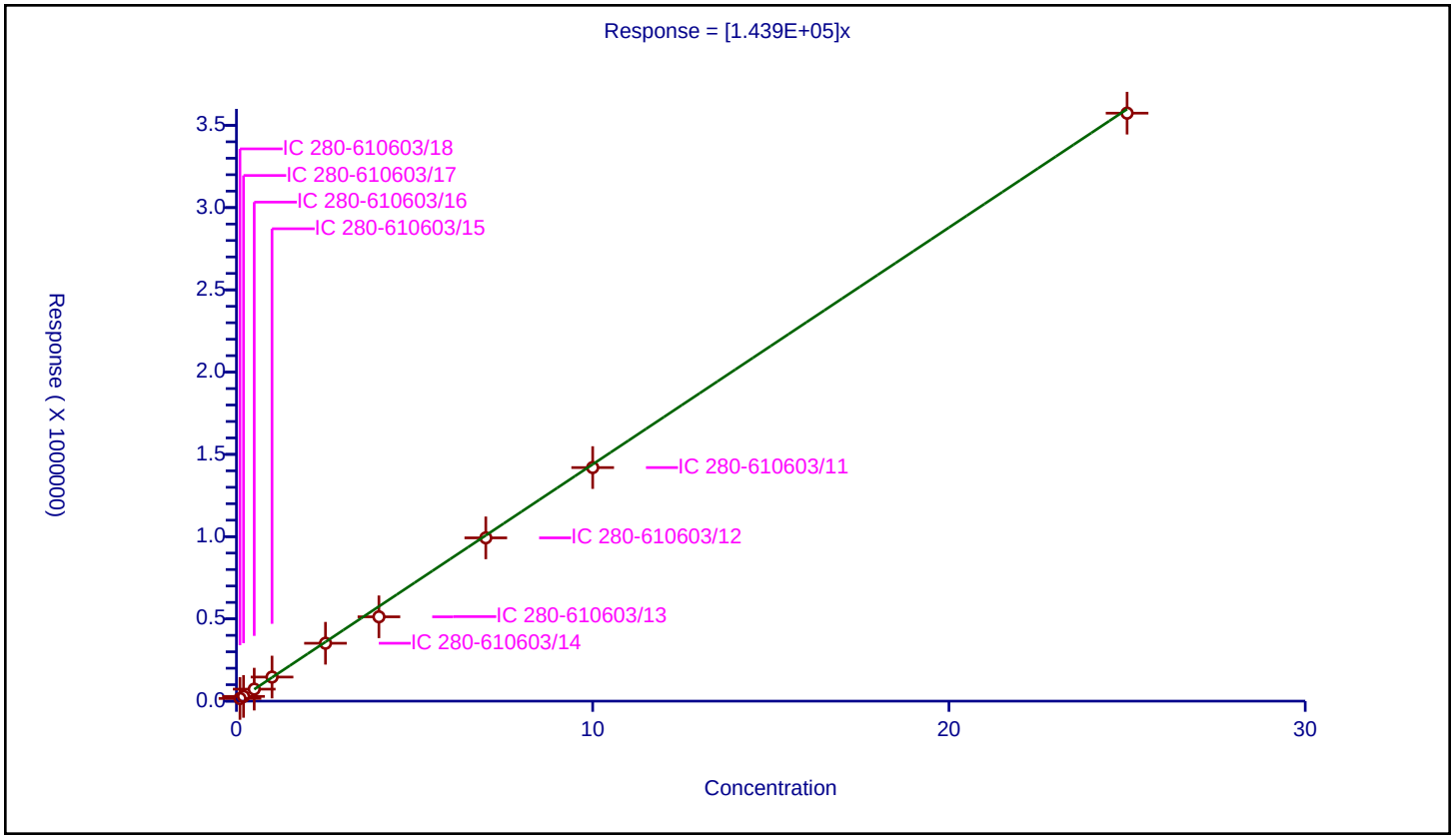
Curve Coefficients

Intercept:	0
Slope:	1.439E+05

Error Coefficients

Standard Error:	25700
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/18	0.1	16344.0			163440.0	Y
2	IC 280-610603/17	0.2	28805.0			144025.0	Y
3	IC 280-610603/16	0.5	72943.0			145886.0	Y
4	IC 280-610603/15	1.0	146450.0			146450.0	Y
5	IC 280-610603/14	2.5	351913.0			140765.2	Y
6	IC 280-610603/13	4.0	512590.0			128147.5	Y
7	IC 280-610603/12	7.0	992519.0			141788.428571	Y
8	IC 280-610603/11	10.0	1419730.0			141973.0	Y
9	IC 280-610603/10	25.0	3574120.0			142964.8	Y



FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1 Analy Batch No.: 610603

SDG No.:

Instrument ID: CHHPLC_X5 GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2023 00:13 Calibration End Date: 04/29/2023 04:18 Calibration ID: 79726

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-610603/27	04280027.D
Level 2	IC 280-610603/26	04280026.D
Level 3	IC 280-610603/25	04280025.D
Level 4	IC 280-610603/24	04280024.D
Level 5	IC 280-610603/23	04280023.D
Level 6	IC 280-610603/22	04280022.D
Level 7	IC 280-610603/21	04280021.D
Level 8	IC 280-610603/20	04280020.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
2,6-diamino-4-nitrotoluene	+++++	+++++	4.112	4.109	4.113	4.111	4.105	4.080			3.963 - 4.263	4.105
2,4-diamino-6-nitrotoluene	+++++	+++++	4.652	4.643	4.653	4.651	4.638	4.620			4.503 - 4.803	4.643

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-176591-1 Analy Batch No.: 610603

SDG No.:

Instrument ID: CHHPLC_X5 GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2023 00:13 Calibration End Date: 04/29/2023 04:18 Calibration ID: 79726

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-610603/27	04280027.D
Level 2	IC 280-610603/26	04280026.D
Level 3	IC 280-610603/25	04280025.D
Level 4	IC 280-610603/24	04280024.D
Level 5	IC 280-610603/23	04280023.D
Level 6	IC 280-610603/22	04280022.D
Level 7	IC 280-610603/21	04280021.D
Level 8	IC 280-610603/20	04280020.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 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
2,6-diamino-4-nitrotoluene	+++++ 404133	+++++ 405346	414510 402965	401736 391111	Ave		403300.002				1.9		20.0			
2,4-diamino-6-nitrotoluene	+++++ 219290	+++++ 221550	230940 222678	231676 225549	Ave		225280.533				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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver | Job No.: 280-176591-1 | Analy Batch No.: 610603

SDG No.:

Instrument ID: CHHPLC_X5 | GC Column: Luna-phenyl ID: 4.6(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2023 00:13 | Calibration End Date: 04/29/2023 04:18 | Calibration ID: 79726

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-610603/27	04280027.D
Level 2	IC 280-610603/26	04280026.D
Level 3	IC 280-610603/25	04280025.D
Level 4	IC 280-610603/24	04280024.D
Level 5	IC 280-610603/23	04280023.D
Level 6	IC 280-610603/22	04280022.D
Level 7	IC 280-610603/21	04280021.D
Level 8	IC 280-610603/20	04280020.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2,6-diamino-4-nitrotoluene	Ave	+++++ 283742	+++++ 402965	41451 977777	100434	161653	+++++ 0.700	+++++ 1.00	0.100 2.50	0.250	0.400
2,4-diamino-6-nitrotoluene	Ave	+++++ 155085	+++++ 222678	23094 563873	57919	87716	+++++ 0.700	+++++ 1.00	0.100 2.50	0.250	0.400

Curve Type Legend
Ave = Average

Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280020.D				
Lims ID:	IC ADD 8				
Client ID:					
Sample Type:	IC	Calib Level:	8		
Inject. Date:	29-Apr-2023 00:13:27	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC ADD 8				
Operator ID:	JZ/JG	Instrument ID:	CHHPLC_X5		
Sublist:	chrom-8330_X5_Luna*sub10				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	29-Apr-2023 13:04:21	Calib Date:	29-Apr-2023 04:18:01		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1621				
First Level Reviewer: LV5D		Date:	29-Apr-2023 10:25:00		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.080	4.113	-0.033	977777	2.50	2.42	
2 2,4-diamino-6-nitrotoluene	1	4.620	4.653	-0.033	563873	2.50	2.50	

QC Flag Legend

Processing Flags

Reagents:

8330_ADDs_00036 Amount Added: 125.00 Units: uL

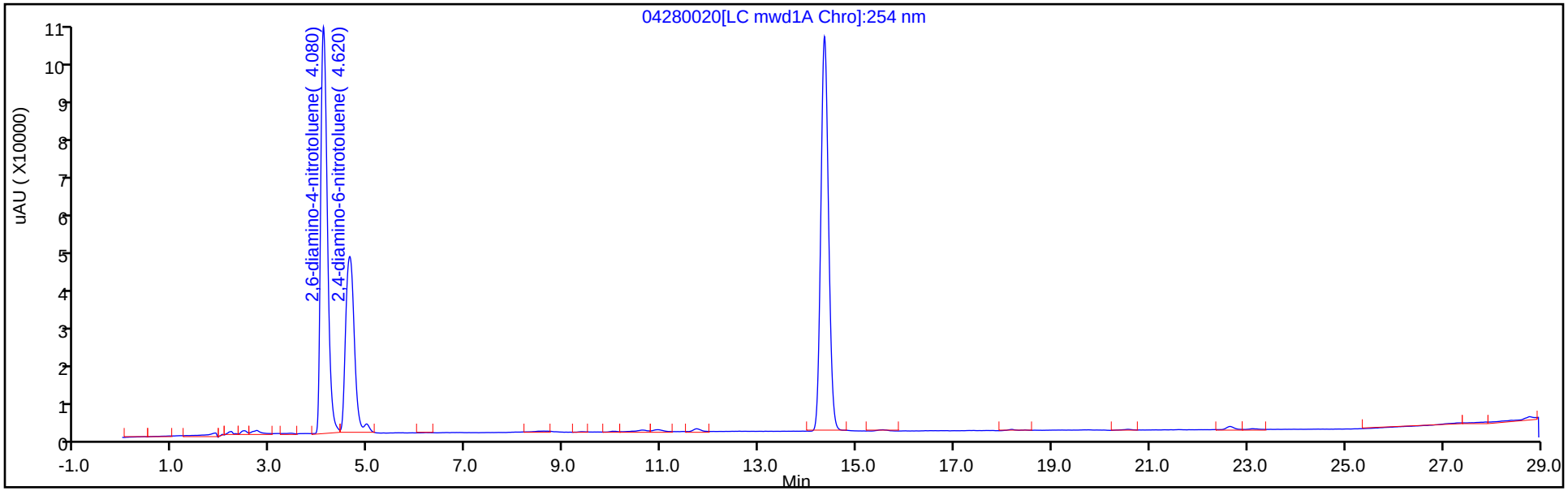
Report Date: 29-Apr-2023 13:04:21 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

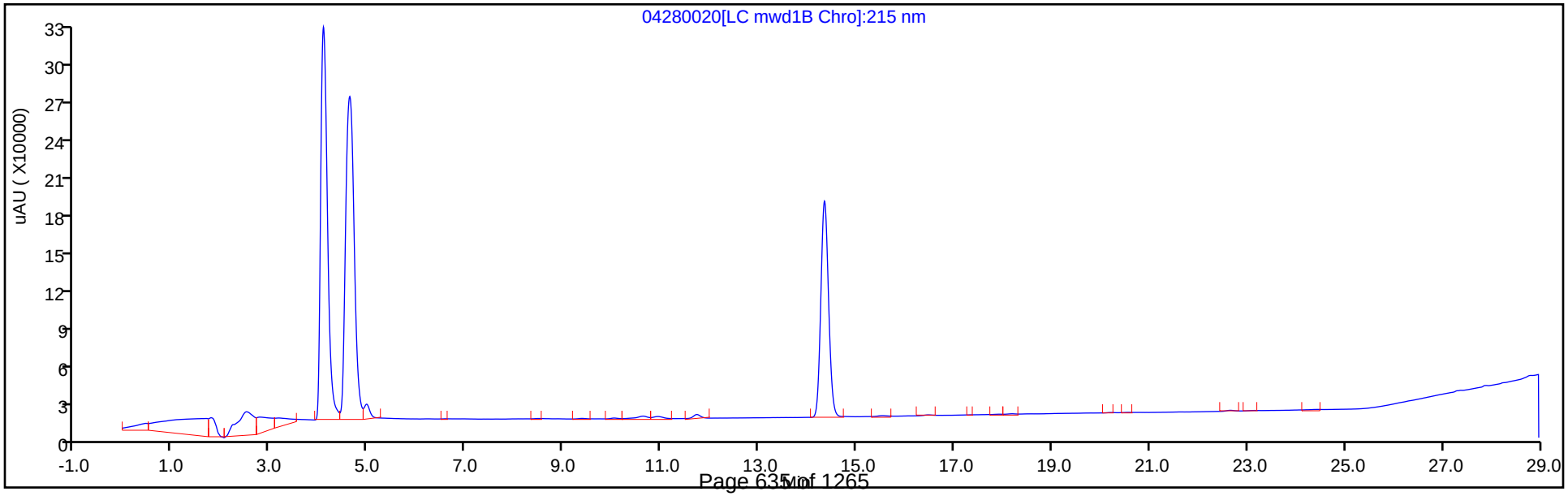
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280020.D

Injection Date:	29-Apr-2023 00:13:27	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	IC ADD 8			Worklist Smp#:	20
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
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
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280021.D				
Lims ID:	IC ADD 7				
Client ID:					
Sample Type:	IC	Calib Level:	7		
Inject. Date:	29-Apr-2023 00:48:26	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC ADD 7				
Operator ID:	JZ/JG	Instrument ID:	CHHPLC_X5		
Sublist:	chrom-8330_X5_Luna*sub10				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	29-Apr-2023 13:04:21	Calib Date:	29-Apr-2023 04:18:01		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1621				

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.105	4.113	-0.008	402965	1.00	1.00	
2 2,4-diamino-6-nitrotoluene	1	4.638	4.653	-0.015	222678	1.00	0.9884	

Reagents:

8330_ADDs_00036 Amount Added: 50.00 Units: uL

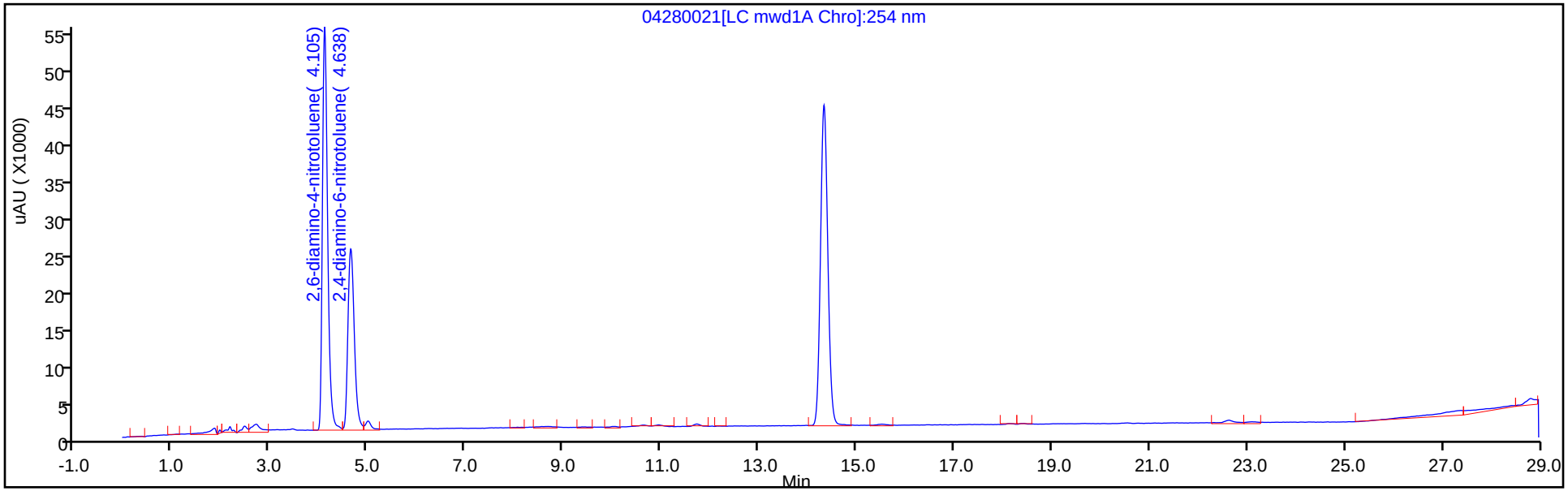
Report Date: 29-Apr-2023 13:04:21 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

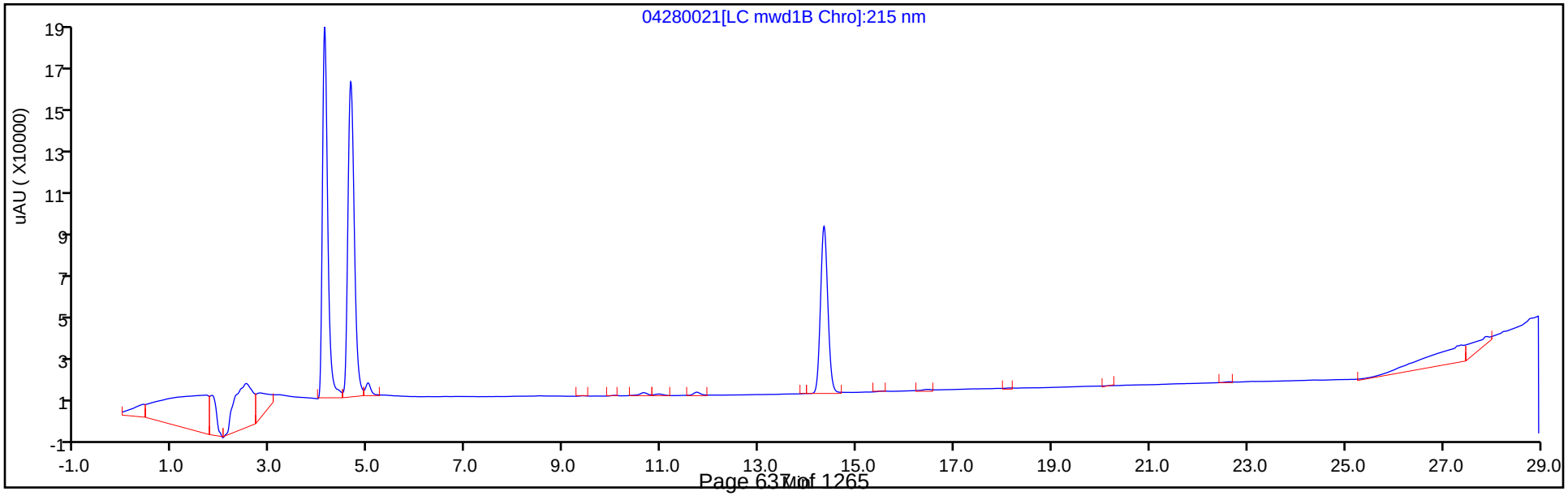
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280021.D

Injection Date:	29-Apr-2023 00:48:26	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	IC ADD 7			Worklist Smp#:	21
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
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
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280022.D
Lims ID: IC ADD 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 29-Apr-2023 01:23:20 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC ADD 6
Operator ID: JZ/JG Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub10

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 29-Apr-2023 13:04:22 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1621

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.111	4.113	-0.002	283742	0.7000	0.7036	
2 2,4-diamino-6-nitrotoluene	1	4.651	4.653	-0.002	155085	0.7000	0.6884	

Reagents:

8330_ADDs_00036 Amount Added: 35.00 Units: uL

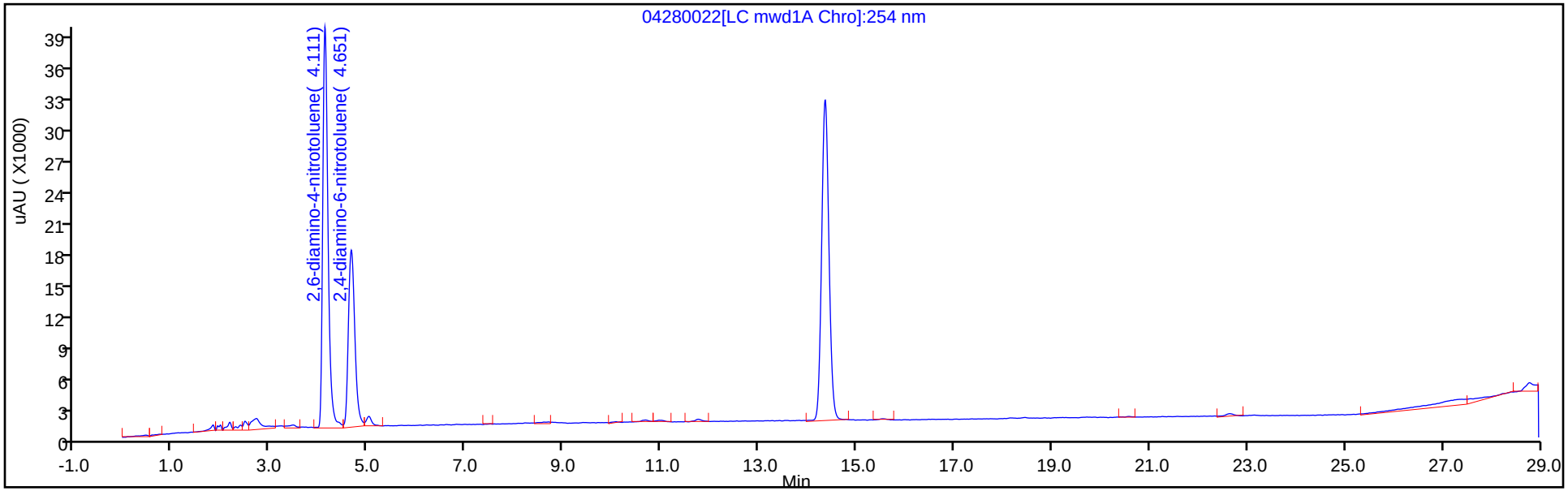
Report Date: 29-Apr-2023 13:04:22 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

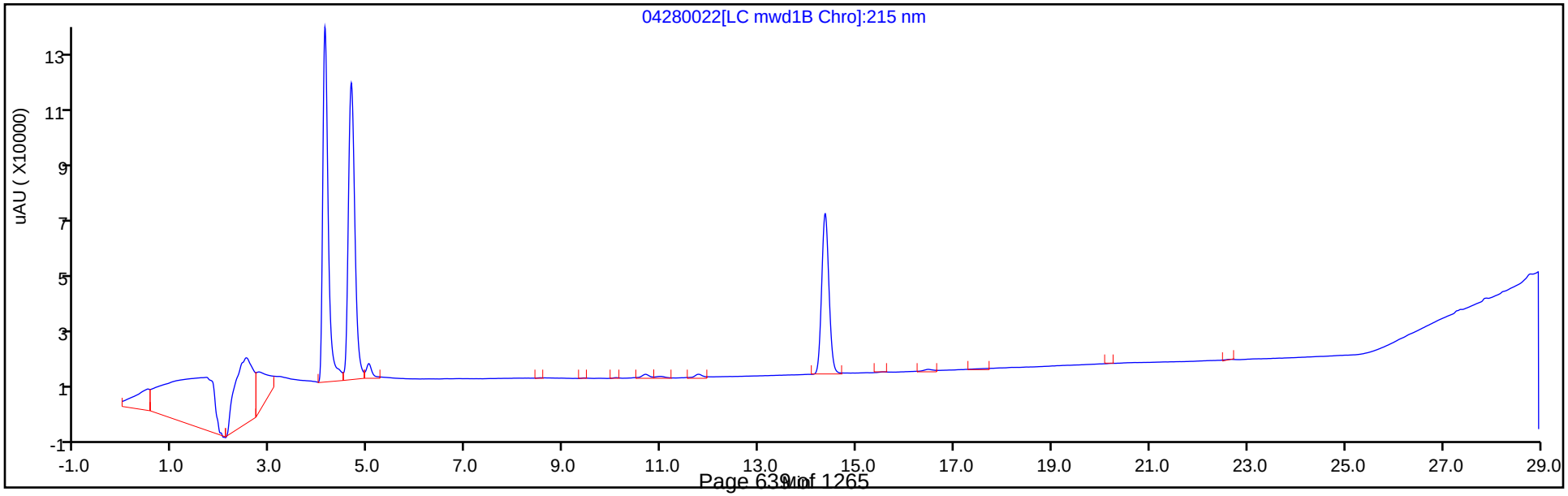
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280022.D

Injection Date:	29-Apr-2023 01:23:20	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	IC ADD 6			Worklist Smp#:	22
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
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
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280023.D
Lims ID: IC ADD 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 29-Apr-2023 01:58:17 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC ADD 5
Operator ID: JZ/JG Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub10

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 29-Apr-2023 13:04:22 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1621

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.113	4.113	0.000	161653	0.4000	0.4008	
2 2,4-diamino-6-nitrotoluene	1	4.653	4.653	0.000	87716	0.4000	0.3894	

Reagents:

8330_ADDs_00036 Amount Added: 20.00 Units: uL

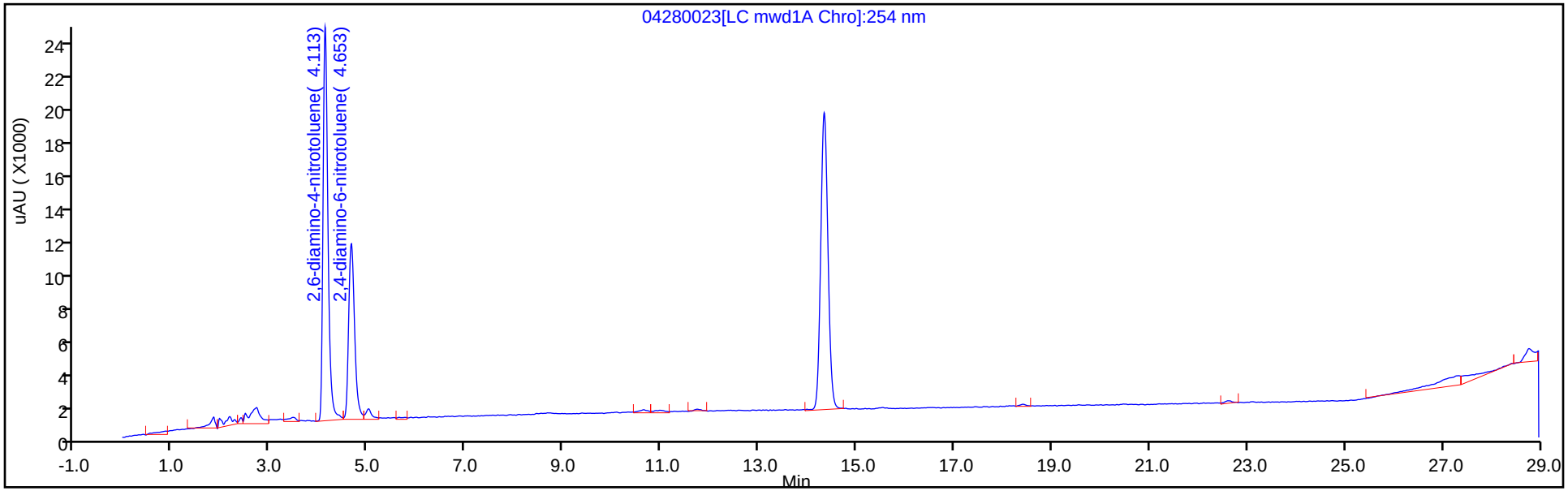
Report Date: 29-Apr-2023 13:04:22 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

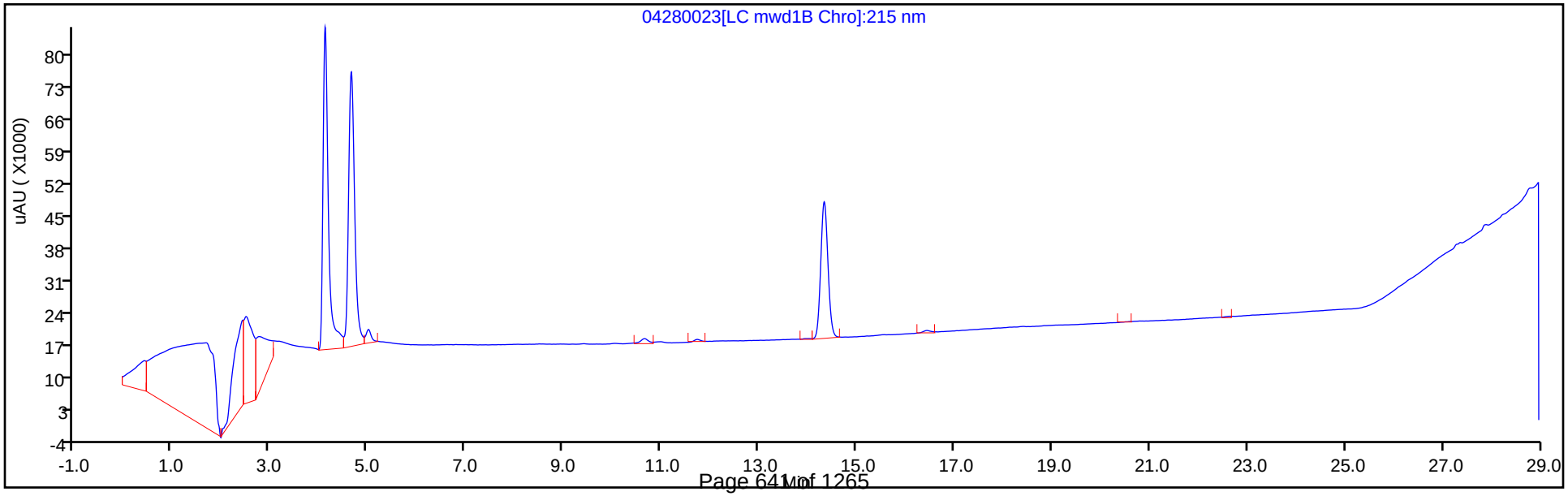
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280023.D

Injection Date:	29-Apr-2023 01:58:17	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	IC ADD 5			Worklist Smp#:	23
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
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
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280024.D
Lims ID: IC ADD 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 29-Apr-2023 02:33:12 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC ADD 4
Operator ID: JZ/JG Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub10

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 29-Apr-2023 13:04:22 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1621

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.109	4.113	-0.004	100434	0.2500	0.2490	
2 2,4-diamino-6-nitrotoluene	1	4.643	4.653	-0.010	57919	0.2500	0.2571	

Reagents:

8330_ADDs_00036 Amount Added: 12.50 Units: uL

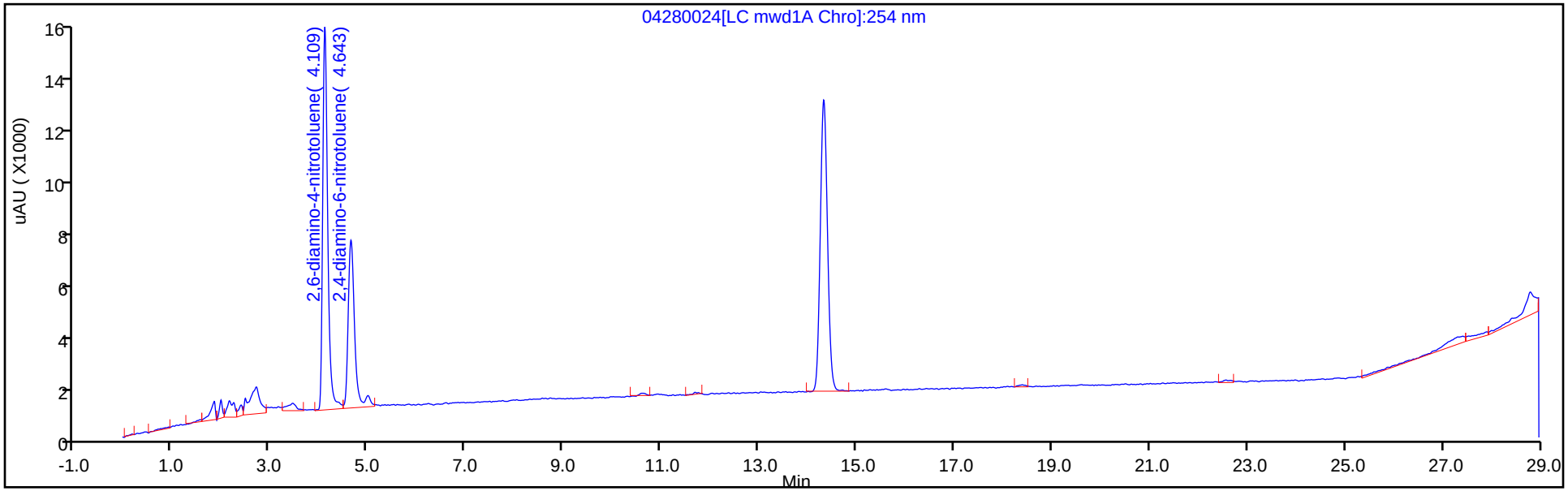
Report Date: 29-Apr-2023 13:04:22 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

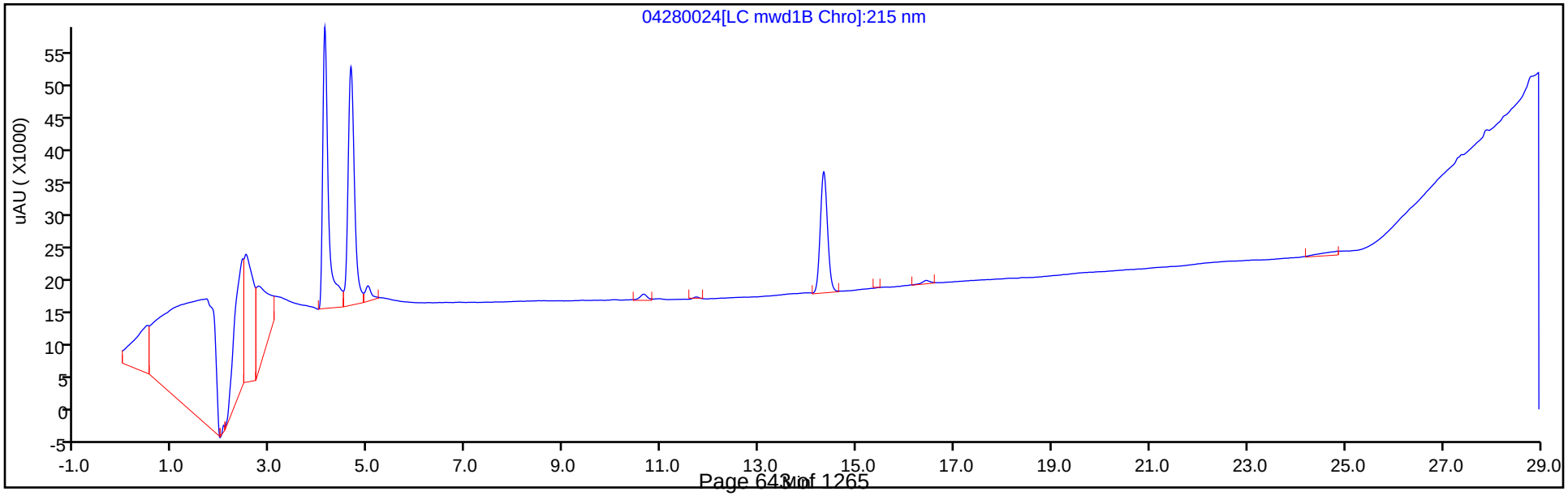
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280024.D

Injection Date:	29-Apr-2023 02:33:12	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	IC ADD 4			Worklist Smp#:	24
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
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
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280025.D				
Lims ID:	IC ADD 3				
Client ID:					
Sample Type:	IC	Calib Level:	3		
Inject. Date:	29-Apr-2023 03:08:08	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC ADD 3				
Operator ID:	JZ/JG	Instrument ID:	CHHPLC_X5		
Sublist:	chrom-8330_X5_Luna*sub10				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\8330_X5_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	29-Apr-2023 13:04:23	Calib Date:	29-Apr-2023 04:18:01		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC mwd1A, 254 nm		
Process Host:	CTX1621				

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.112	4.113	-0.001	41451	0.1000	0.1028	
2 2,4-diamino-6-nitrotoluene	1	4.652	4.653	-0.001	23094	0.1000	0.1025	

Reagents:

8330_ADDs_00036 Amount Added: 5.00 Units: uL

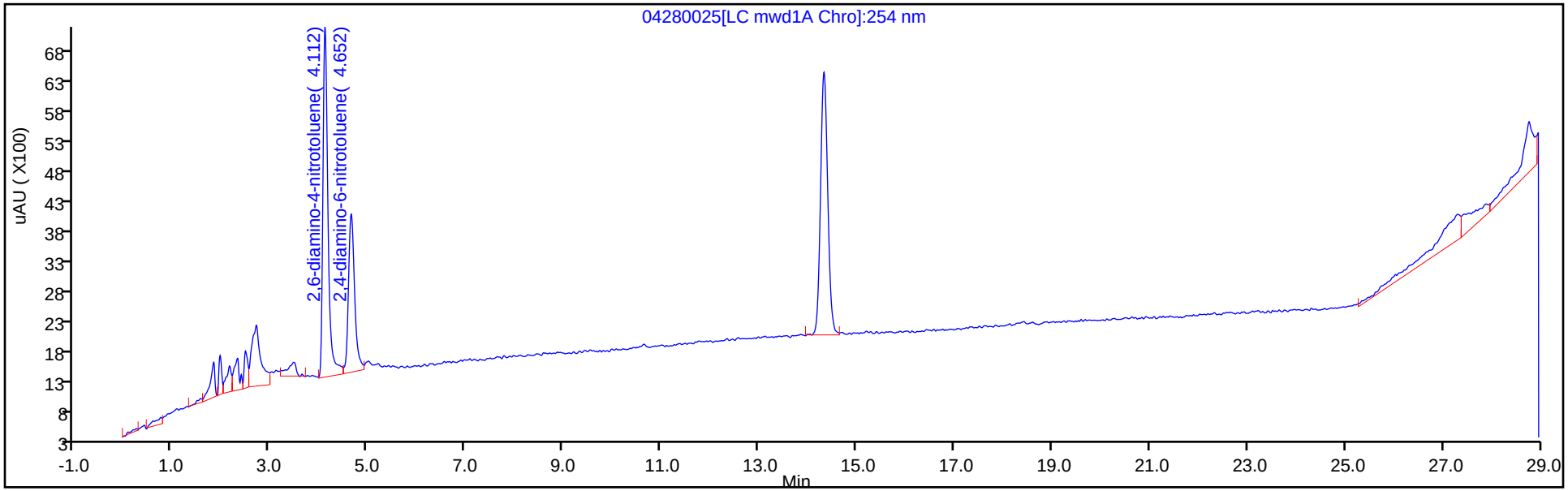
Report Date: 29-Apr-2023 13:04:23 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

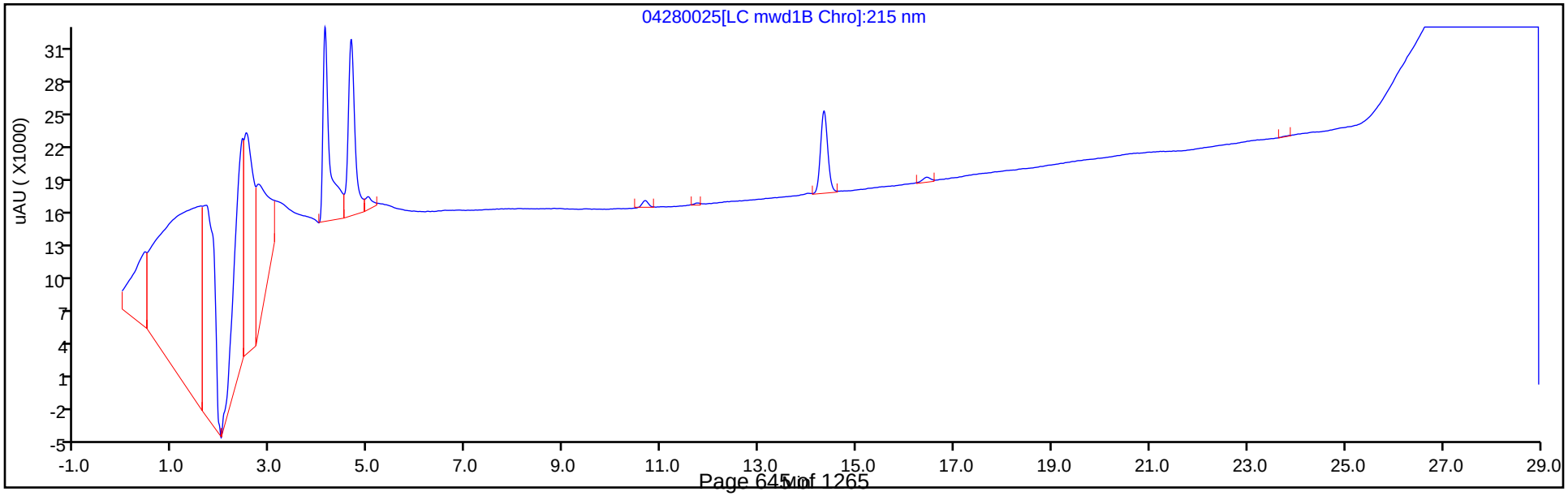
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280025.D

Injection Date:	29-Apr-2023 03:08:08	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	IC ADD 3			Worklist Smp#:	25
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
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
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280026.D
Lims ID: IC ADD 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 29-Apr-2023 03:43:02 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC ADD 2
Operator ID: JZ/JG Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub10

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 29-Apr-2023 13:04:23 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1621

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.113	4.113	0.000	21691	0.0400	0.0538	
2 2,4-diamino-6-nitrotoluene	1	4.653	4.653	0.000	12626	0.0400	0.0560	

Reagents:

8330_ADDs_00036 Amount Added: 2.00 Units: uL

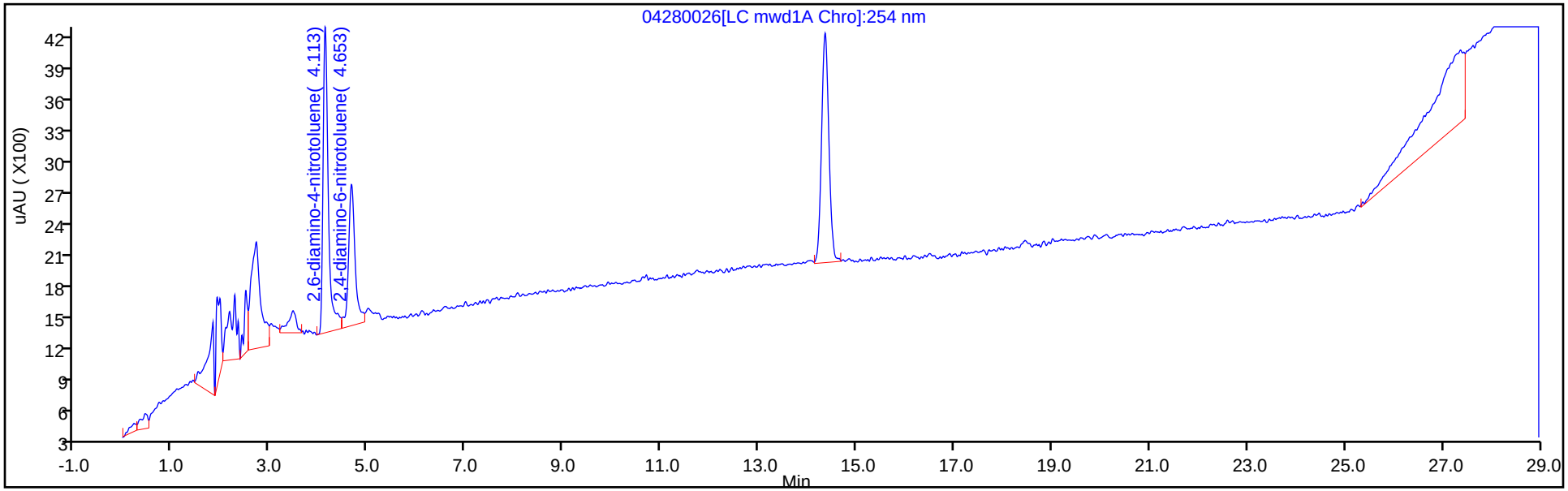
Report Date: 29-Apr-2023 13:04:23 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

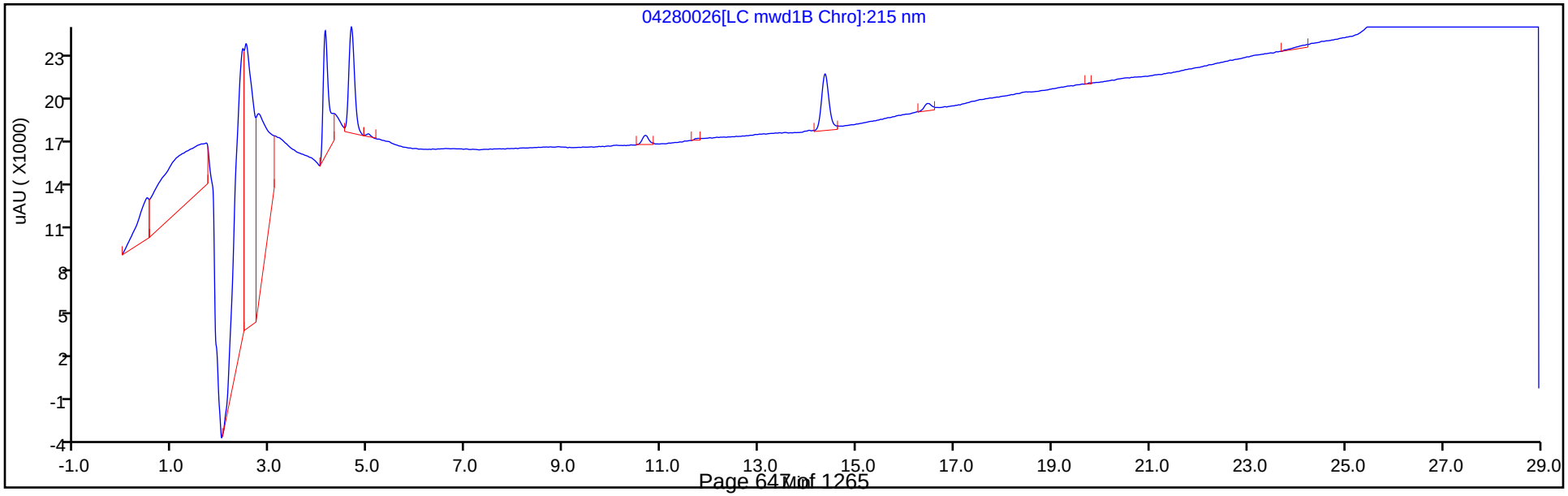
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280026.D

Injection Date:	29-Apr-2023 03:43:02	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	IC ADD 2			Worklist Smp#:	26
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
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
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D
Lims ID: IC ADD 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 29-Apr-2023 04:18:01 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC ADD 1
Operator ID: JZ/JG Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub10

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 29-Apr-2023 13:04:23 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1621

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.113	4.113	0.000	8084	0.0200	0.0200	
2 2,4-diamino-6-nitrotoluene	1	4.653	4.653	0.000	5388	0.0200	0.0239	

Reagents:

8330_ADDs_00036 Amount Added: 1.00 Units: uL

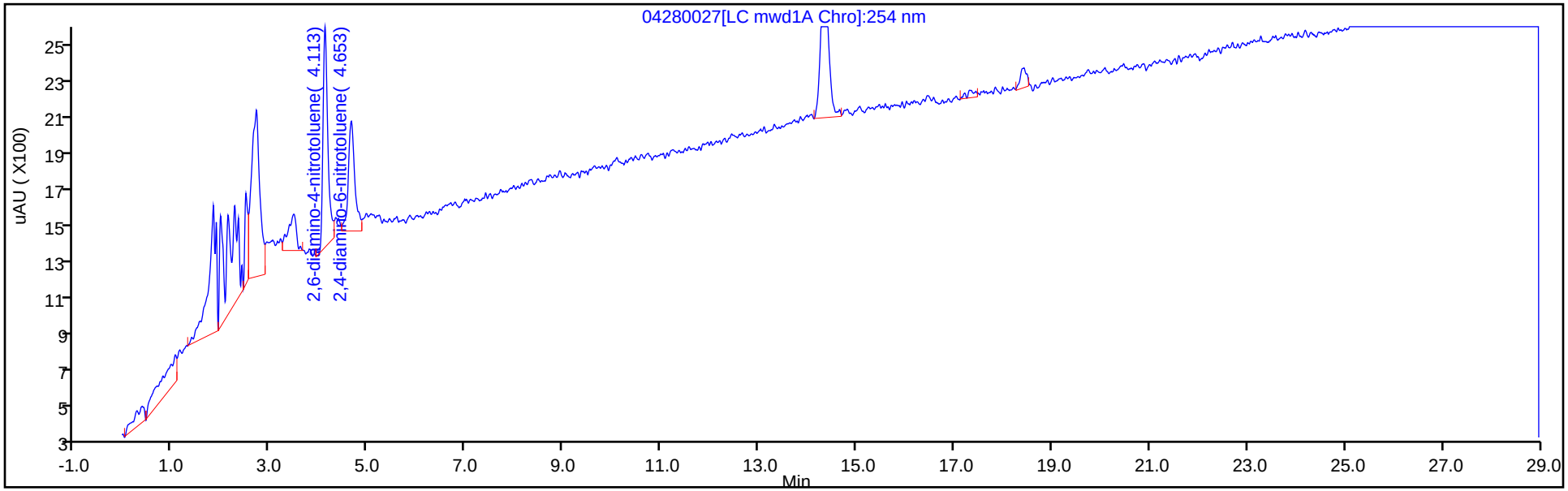
Report Date: 29-Apr-2023 13:04:24 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

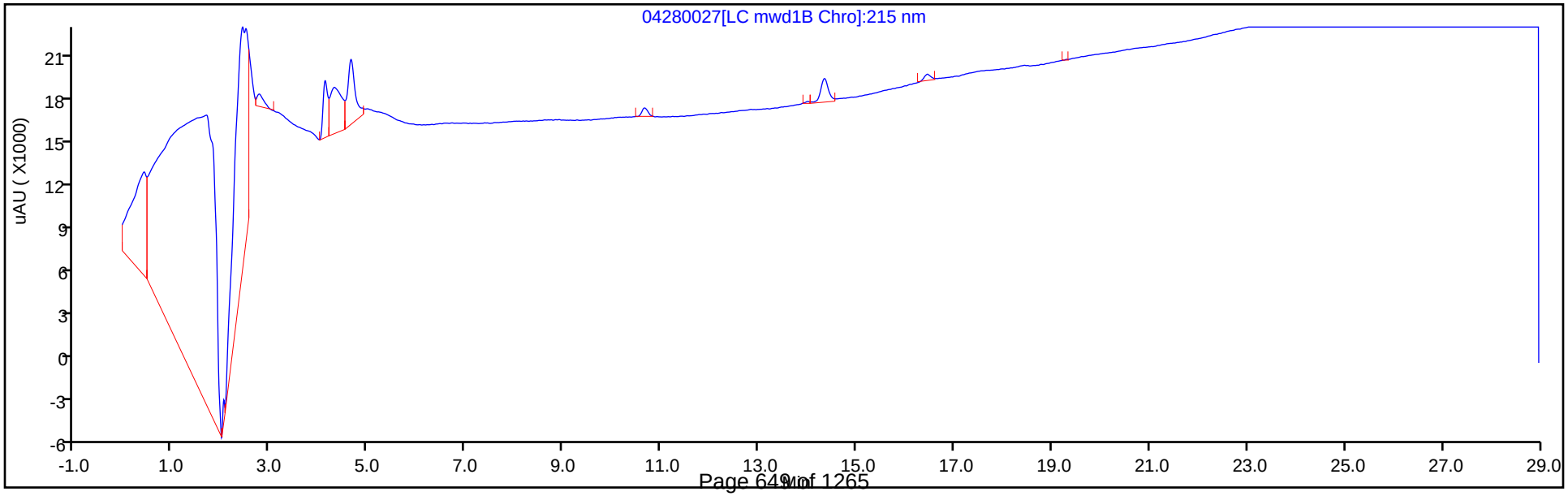
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Injection Date:	29-Apr-2023 04:18:01	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	IC ADD 1			Worklist Smp#:	27
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
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



Calibration / 2,6-diamino-4-nitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

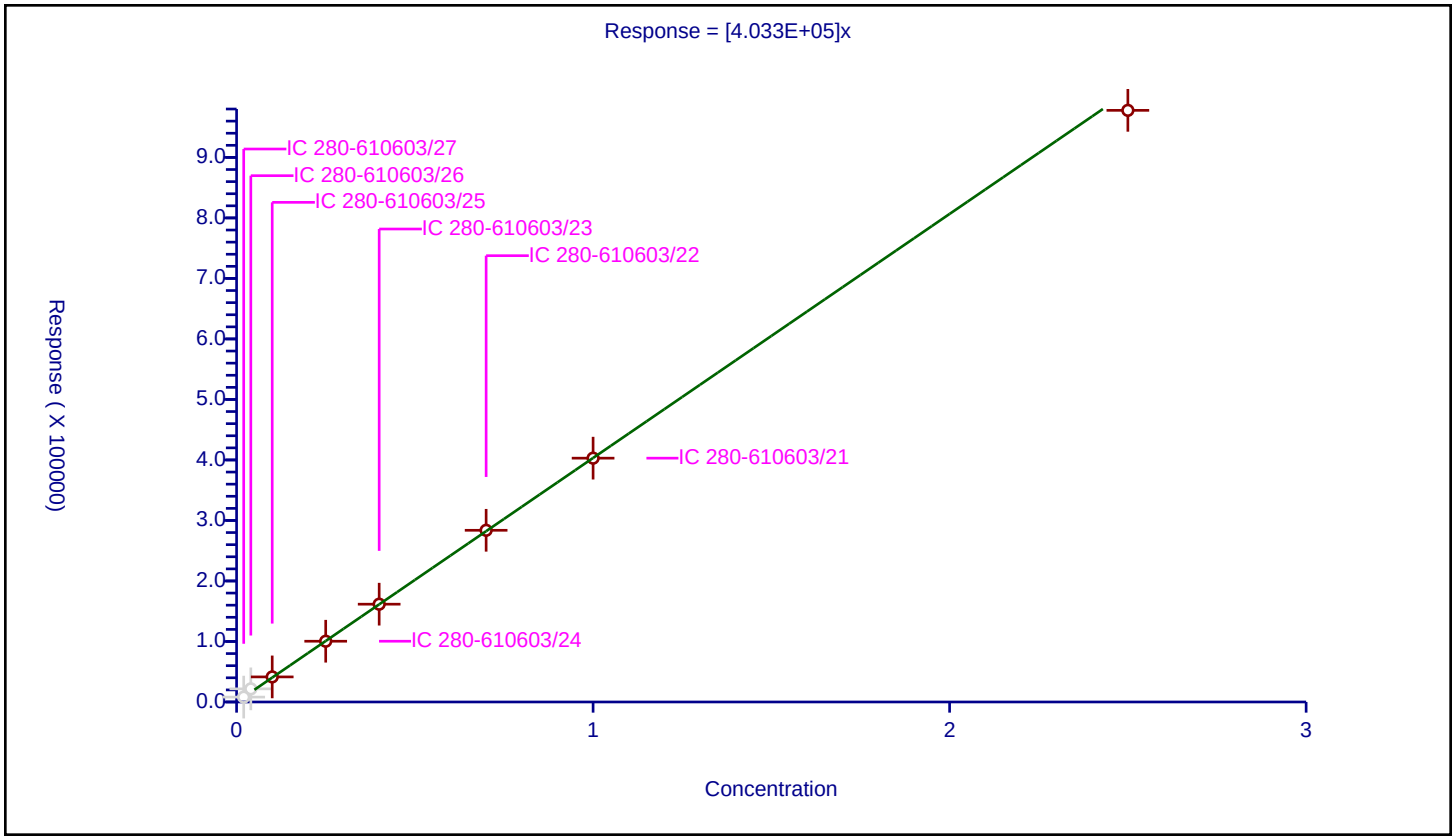
Curve Coefficients

Intercept:	0
Slope:	4.033E+05

Error Coefficients

Standard Error:	13700
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/27	0.02	8084.0			404200.0	N
2	IC 280-610603/26	0.04	21691.0			542275.0	N
3	IC 280-610603/25	0.1	41451.0			414510.0	Y
4	IC 280-610603/24	0.25	100434.0			401736.0	Y
5	IC 280-610603/23	0.4	161653.0			404132.5	Y
6	IC 280-610603/22	0.7	283742.0			405345.714286	Y
7	IC 280-610603/21	1.0	402965.0			402965.0	Y
8	IC 280-610603/20	2.5	977777.0			391110.8	Y



Calibration / 2,4-diamino-6-nitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

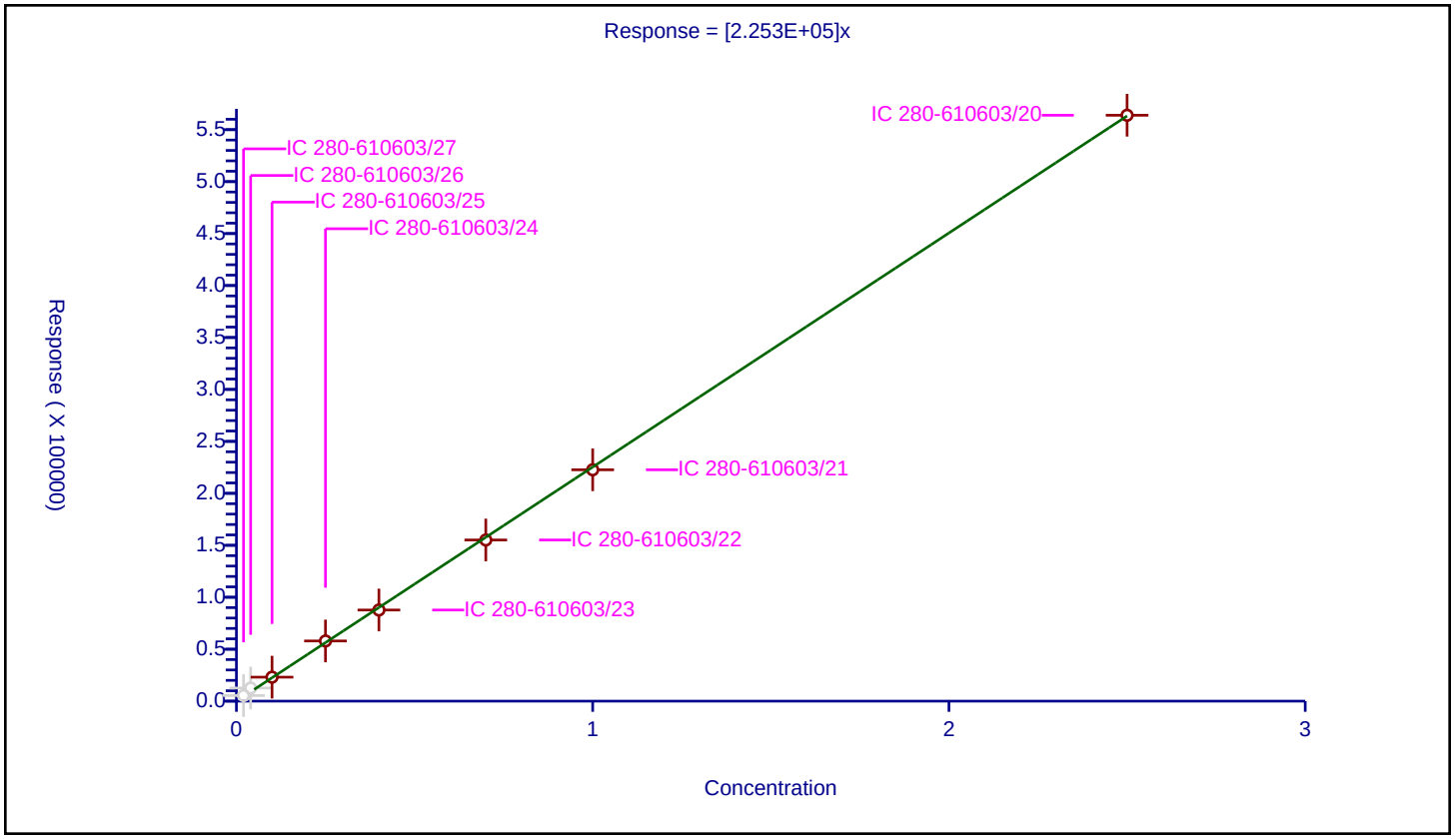
Curve Coefficients

Intercept:	0
Slope:	2.253E+05

Error Coefficients

Standard Error:	2130
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 280-610603/27	0.02	5388.0			269400.0	N
2	IC 280-610603/26	0.04	12626.0			315650.0	N
3	IC 280-610603/25	0.1	23094.0			230940.0	Y
4	IC 280-610603/24	0.25	57919.0			231676.0	Y
5	IC 280-610603/23	0.4	87716.0			219290.0	Y
6	IC 280-610603/22	0.7	155085.0			221550.0	Y
7	IC 280-610603/21	1.0	222678.0			222678.0	Y
8	IC 280-610603/20	2.5	563873.0			225549.2	Y



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-176591-1

SDG No.:

Lab Sample ID: ICV 280-599427/19 | Calibration Date: 01/17/2023 03:40

Instrument ID: CHHPLC_X3 | Calib Start Date: 01/17/2023 00:33

GC Column: UltraCarb5uODS ID: 4.60(mm) | Calib End Date: 01/17/2023 03:16

Lab File ID: 01160047.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,6-diamino-4-nitrotoluene	Lin2		224434		485	500	-3.0	20.0
2,4-diamino-6-nitrotoluene	Ave	146472	141938		485	500	-3.1	20.0
3,5-Dinitroaniline	Lin2		235360		481	500	-3.8	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: ICV 280-599427/19 Calibration Date: 01/17/2023 03:40

Instrument ID: CHHPLC_X3 Calib Start Date: 01/17/2023 00:33

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 01/17/2023 03:16

Lab File ID: 01160047.D

Analyte	RT	RT WINDOW	
		FROM	TO
2,6-diamino-4-nitrotoluene	6.45	6.31	6.61
2,4-diamino-6-nitrotoluene	6.63	6.62	6.92
3,5-Dinitroaniline	9.80	9.65	9.95

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\01160047.D
Lims ID: ICV ADD
Client ID:
Sample Type: ICV
Inject. Date: 17-Jan-2023 03:40:08 ALS Bottle#: 50 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: ICVADD
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist:

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 17-Jan-2023 12:54:36 Calib Date: 17-Jan-2023 03:16:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230114-117775.b\01160046.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1672

First Level Reviewer: LV5D Date: 17-Jan-2023 12:32:06

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 2,6-diamino-4-nitrotoluene	1	6.454	6.455	-0.001	112217	0.5000	0.4848	M
5 2,4-diamino-6-nitrotoluene	1	6.634	6.769	-0.135	70969	0.5000	0.4845	M
14 3,5-Dinitroaniline	1	9.801	9.800	0.001	117680	0.5000	0.4811	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

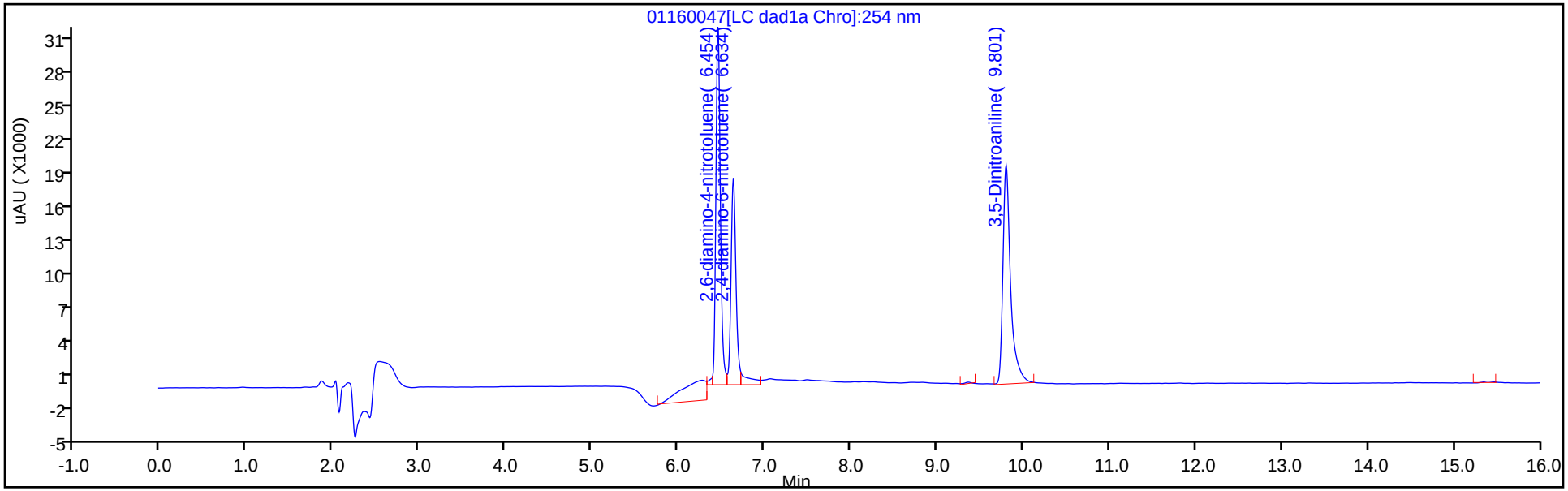
8330DiaminLCS_00052 Amount Added: 50.00 Units: uL
3,5-DNA LCS_00042 Amount Added: 50.00 Units: uL

Report Date: 17-Jan-2023 12:54:42 Chrom Revision: 2.3 20-Dec-2022 14:14:06

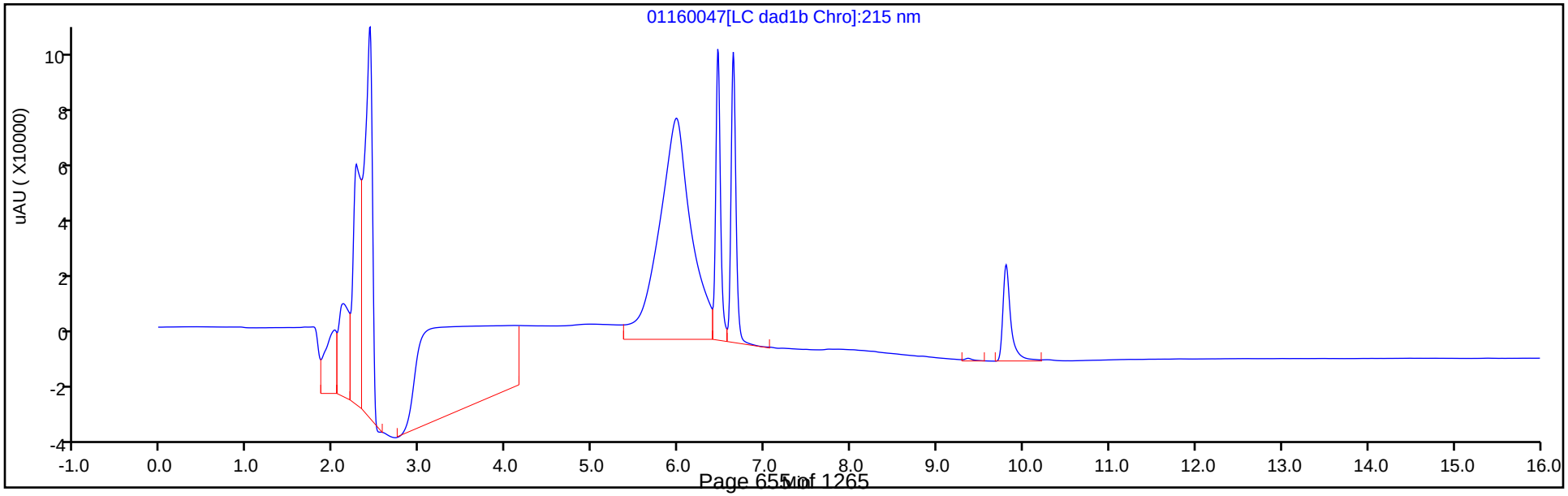
Eurofins Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160047.d				
Injection Date:	17-Jan-2023 03:40:08	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	ICV ADD			Worklist Smp#:	19
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	50
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

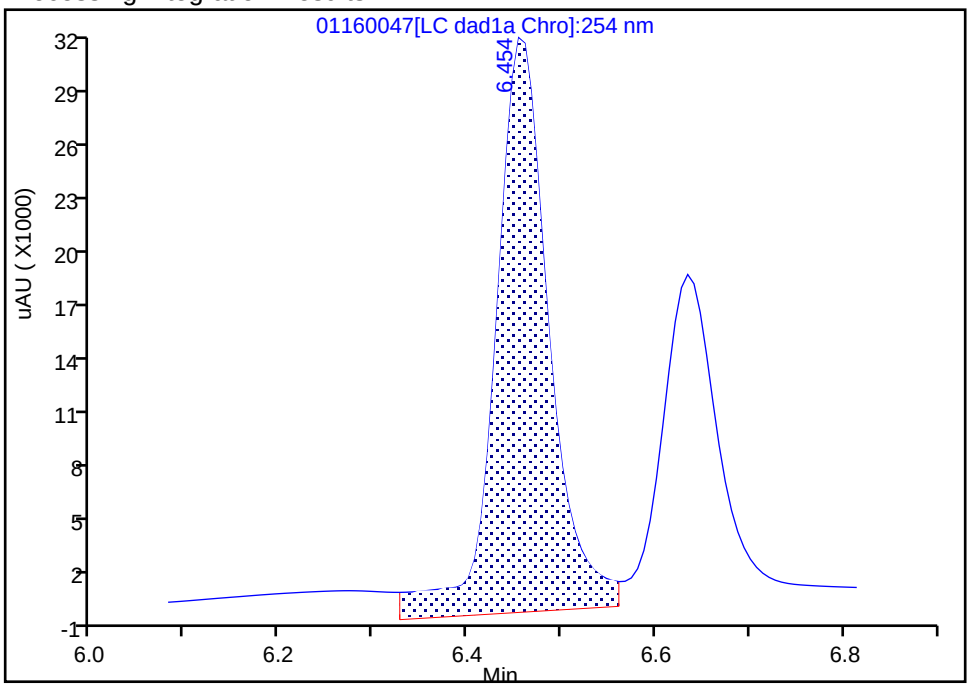
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160047.d				
Injection Date:	17-Jan-2023 03:40:08	Instrument ID:	CHHPLC_X3		
Lims ID:	ICV ADD				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	50	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 2,6-diamino-4-nitrotoluene, CAS: 59229-75-3

Signal: 1

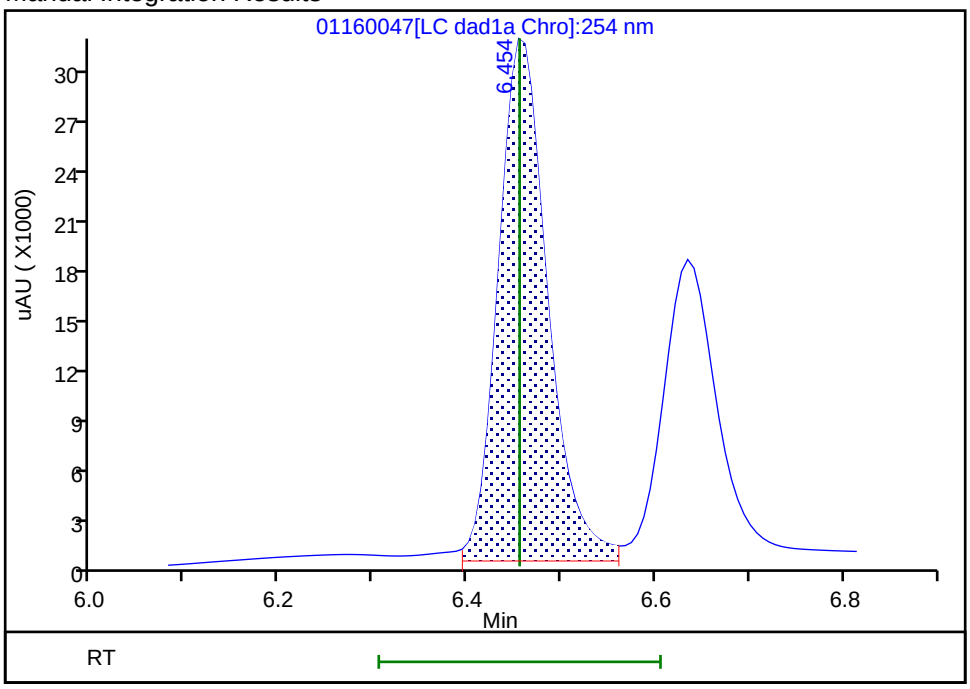
Processing Integration Results

RT: 6.45
Area: 126714
Amount: 0.529427
Amount Units: ug/mL



Manual Integration Results

RT: 6.45
Area: 112217
Amount: 0.484790
Amount Units: ug/mL



Reviewer: LV5D, 17-Jan-2023 12:32:03
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

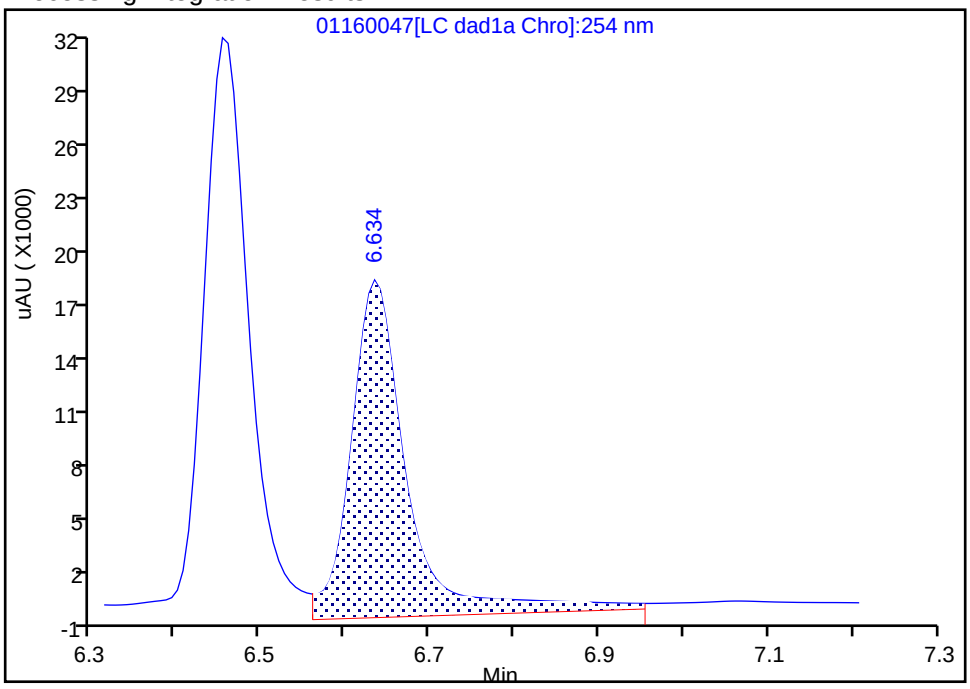
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230114-117775.b\01160047.d				
Injection Date:	17-Jan-2023 03:40:08	Instrument ID:	CHHPLC_X3		
Lims ID:	ICV ADD				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	50	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 2,4-diamino-6-nitrotoluene, CAS: 6629-29-4

Signal: 1

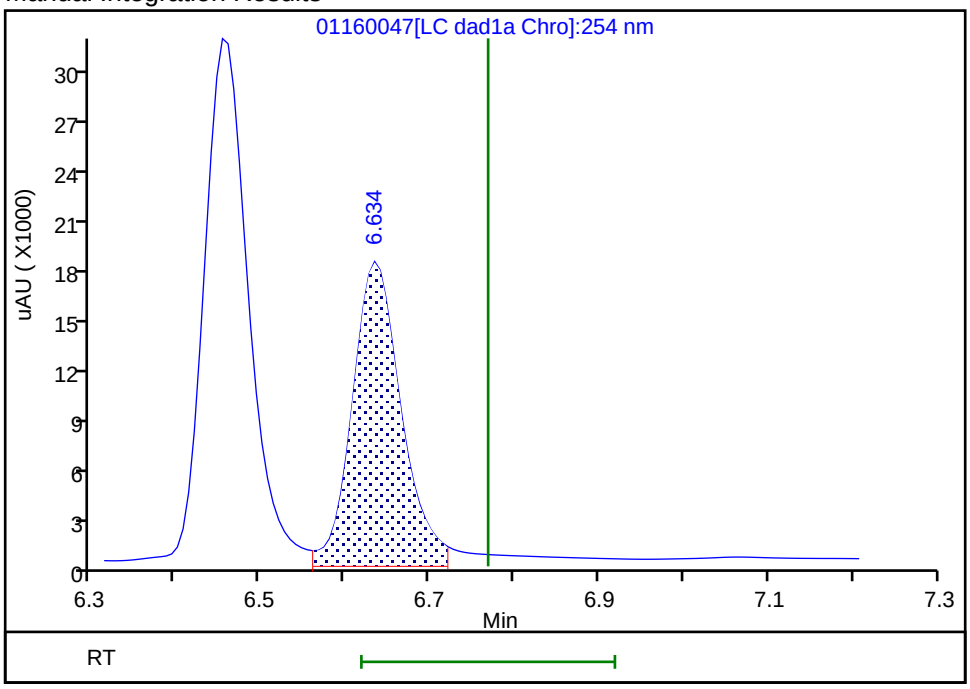
Processing Integration Results

RT: 6.63
Area: 84952
Amount: 0.579987
Amount Units: ug/mL



Manual Integration Results

RT: 6.63
Area: 70969
Amount: 0.484522
Amount Units: ug/mL



Reviewer: LV5D, 17-Jan-2023 12:32:04
Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: ICV 280-601664/20 Calibration Date: 02/08/2023 19:05

Instrument ID: CHHPLC_X3 Calib Start Date: 02/08/2023 15:38

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 02/08/2023 18:42

Lab File ID: 02080020.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	93528	88148		471	500	-5.8	20.0
RDX	Ave	106380	105642		497	500	-0.7	20.0
Picric acid	Ave	75830	83408		550	500	10.0	20.0
1,3,5-Trinitrobenzene	Ave	217147	243558		561	500	12.2	20.0
1,3-Dinitrobenzene	Ave	294397	317476		539	500	7.8	20.0
Nitrobenzene	Ave	191245	205682		538	500	7.5	20.0
3,5-Dinitroaniline	Lin2		223846		489	500	-2.2	20.0
Tetryl	Ave	164121	182414		556	500	11.1	20.0
Nitroglycerin	Ave	64070	67923		5300	5000	6.0	20.0
2,4,6-Trinitrotoluene	Ave	211040	213428		506	500	1.1	20.0
4-Amino-2,6-dinitrotoluene	Ave	154933	158824		513	500	2.5	20.0
2-Amino-4,6-dinitrotoluene	Ave	201410	204888		509	500	1.7	20.0
2,6-Dinitrotoluene	Ave	142745	147024		515	500	3.0	20.0
2,4-Dinitrotoluene	Ave	296667	301684		508	500	1.7	20.0
2-Nitrotoluene	Ave	127896	128960		504	500	0.8	20.0
4-Nitrotoluene	Ave	111880	111646		499	500	-0.2	20.0
3-Nitrotoluene	Ave	140492	138998		495	500	-1.1	20.0
PETN	Ave	68845	76520		5560	5000	11.1	20.0
1,2-Dinitrobenzene	Ave	126309	125412		496	500	-0.7	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: ICV 280-601664/20 Calibration Date: 02/08/2023 19:05

Instrument ID: CHHPLC_X3 Calib Start Date: 02/08/2023 15:38

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 02/08/2023 18:42

Lab File ID: 02080020.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.55	6.39	6.69
RDX	7.56	7.41	7.71
Picric acid	8.02	7.89	8.19
1,3,5-Trinitrobenzene	8.65	8.49	8.79
1,3-Dinitrobenzene	9.26	9.11	9.41
Nitrobenzene	9.64	9.48	9.78
3,5-Dinitroaniline	9.84	9.68	9.98
Tetryl	9.99	9.83	10.13
Nitroglycerin	10.46	10.29	10.59
2,4,6-Trinitrotoluene	10.88	10.76	10.96
4-Amino-2,6-dinitrotoluene	11.05	10.93	11.13
2-Amino-4,6-dinitrotoluene	11.30	11.18	11.38
2,6-Dinitrotoluene	11.48	11.35	11.55
2,4-Dinitrotoluene	11.64	11.52	11.72
2-Nitrotoluene	12.46	12.29	12.59
4-Nitrotoluene	12.88	12.69	12.99
3-Nitrotoluene	13.44	13.26	13.56
PETN	14.60	14.40	14.70
1,2-Dinitrobenzene	8.52	8.37	8.67

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\02080020.D
Lims ID: ICV INT
Client ID:
Sample Type: ICV
Inject. Date: 08-Feb-2023 19:05:10 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: ICV INT
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist:

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 09-Feb-2023 13:03:49 Calib Date: 08-Feb-2023 18:42:13
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230208-118465.b\02080019.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1604

First Level Reviewer: LV5D Date: 08-Feb-2023 19:31:36

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
4 HMX	1	6.549	6.544	0.005	44074	0.5000	0.4712	M
8 RDX	1	7.563	7.564	-0.001	52821	0.5000	0.4965	M
9 2,4,6-Trinitrophenol	1	8.023	8.044	-0.021	41704	0.5000	0.5500	
$ 10 1,2-Dinitrobenzene	1	8.523	8.517	0.006	62706	0.5000	0.4965	
11 1,3,5-Trinitrobenzene	1	8.649	8.644	0.005	121779	0.5000	0.5608	
12 1,3-Dinitrobenzene	1	9.263	9.257	0.006	158738	0.5000	0.5392	
13 Nitrobenzene	1	9.636	9.631	0.005	102841	0.5000	0.5377	
14 3,5-Dinitroaniline	1	9.843	9.831	0.012	111923	0.5000	0.4890	
15 Tetryl	1	9.989	9.977	0.012	91207	0.5000	0.5557	
16 Nitroglycerin	2	10.456	10.437	0.019	339614	5.00	5.30	
17 2,4,6-Trinitrotoluene	1	10.883	10.864	0.019	106714	0.5000	0.5057	
18 4-Amino-2,6-dinitrotoluene	1	11.049	11.031	0.018	79412	0.5000	0.5126	
19 2-Amino-4,6-dinitrotoluene	1	11.296	11.277	0.019	102444	0.5000	0.5086	
20 2,6-Dinitrotoluene	1	11.476	11.451	0.025	73512	0.5000	0.5150	
21 2,4-Dinitrotoluene	1	11.643	11.617	0.026	150842	0.5000	0.5085	
22 o-Nitrotoluene	1	12.463	12.437	0.026	64480	0.5000	0.5042	
23 p-Nitrotoluene	1	12.876	12.844	0.032	55823	0.5000	0.4990	
24 m-Nitrotoluene	1	13.443	13.411	0.032	69499	0.5000	0.4947	
25 PETN	2	14.596	14.551	0.045	382602	5.00	5.56	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330Surrogate_00138	Amount Added:	50.00	Units: uL
8330 LCS_00121	Amount Added:	50.00	Units: uL
3,5-DNA LCS_00043	Amount Added:	50.00	Units: uL

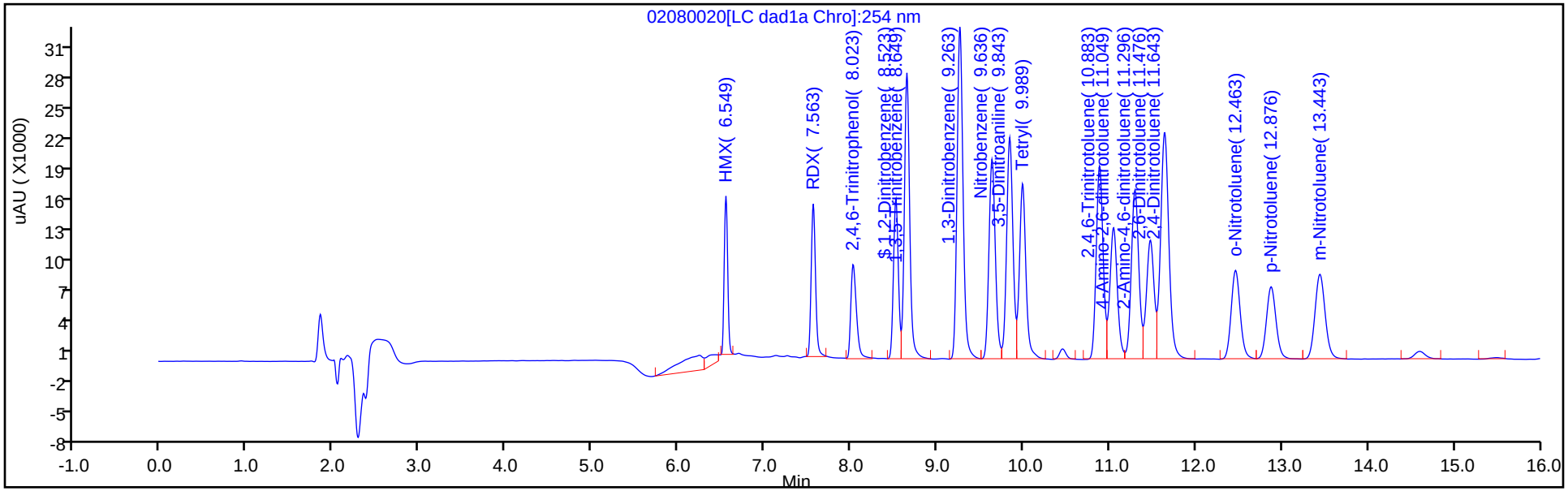
Report Date: 09-Feb-2023 13:04:01 Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Denver

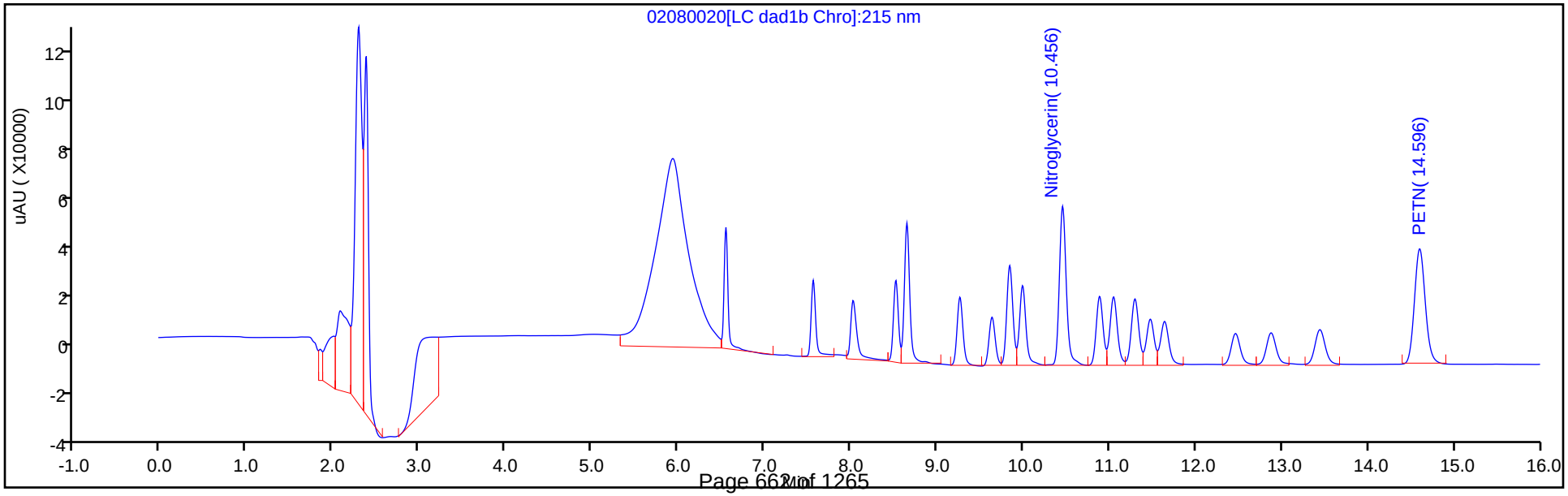
Data File: \\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080020.d

Injection Date:	08-Feb-2023 19:05:10	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	ICV INT			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



Manual Integration/User Assign Peak Report

Eurofins Denver

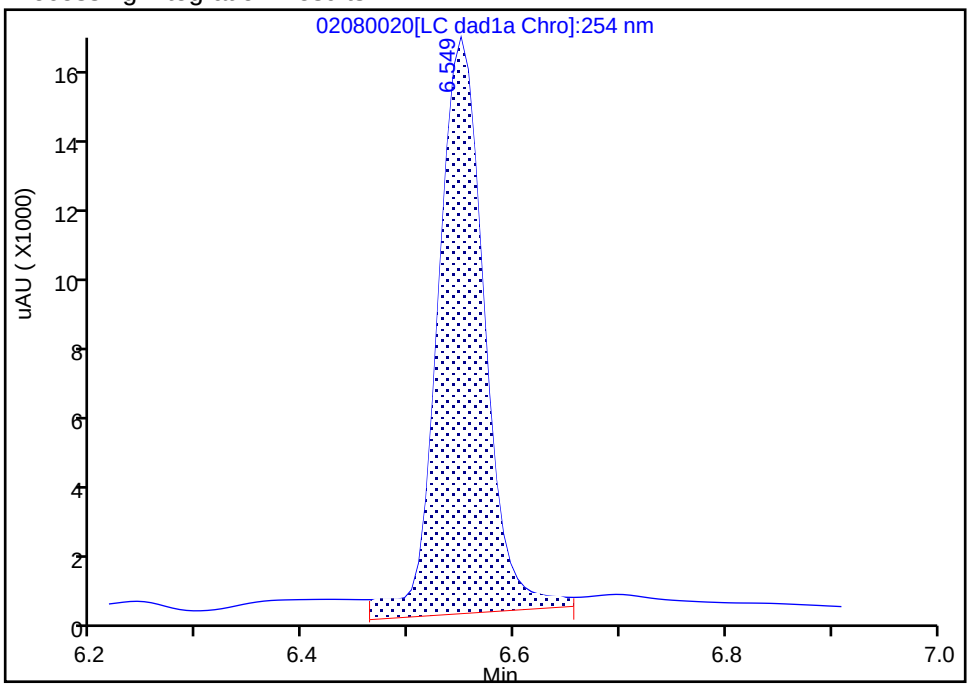
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080020.d				
Injection Date:	08-Feb-2023 19:05:10	Instrument ID:	CHHPLC_X3		
Lims ID:	ICV INT				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

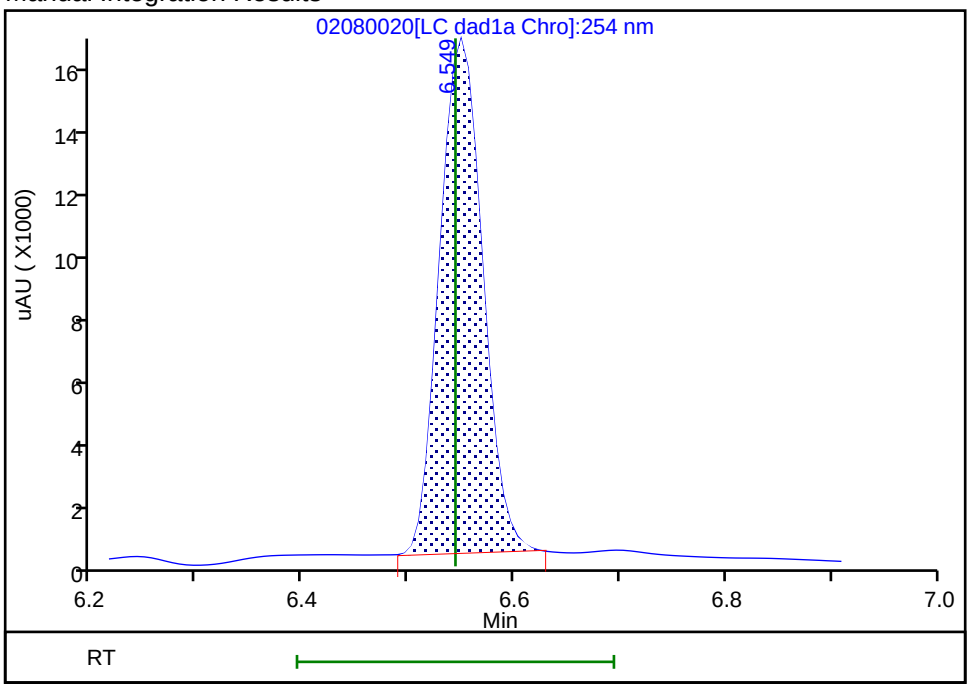
Processing Integration Results

RT: 6.55
Area: 49010
Amount: 0.524013
Amount Units: ug/mL



Manual Integration Results

RT: 6.55
Area: 44074
Amount: 0.471238
Amount Units: ug/mL



Reviewer: LV5D, 08-Feb-2023 19:31:27

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

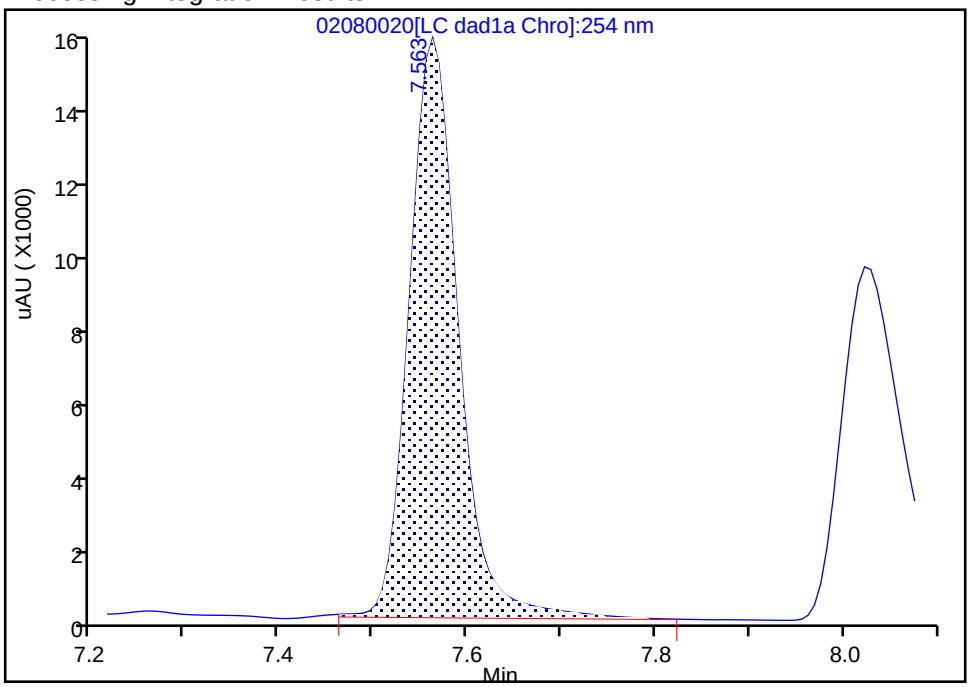
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230208-118465.b\02080020.d				
Injection Date:	08-Feb-2023 19:05:10	Instrument ID:	CHHPLC_X3		
Lims ID:	ICV INT				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

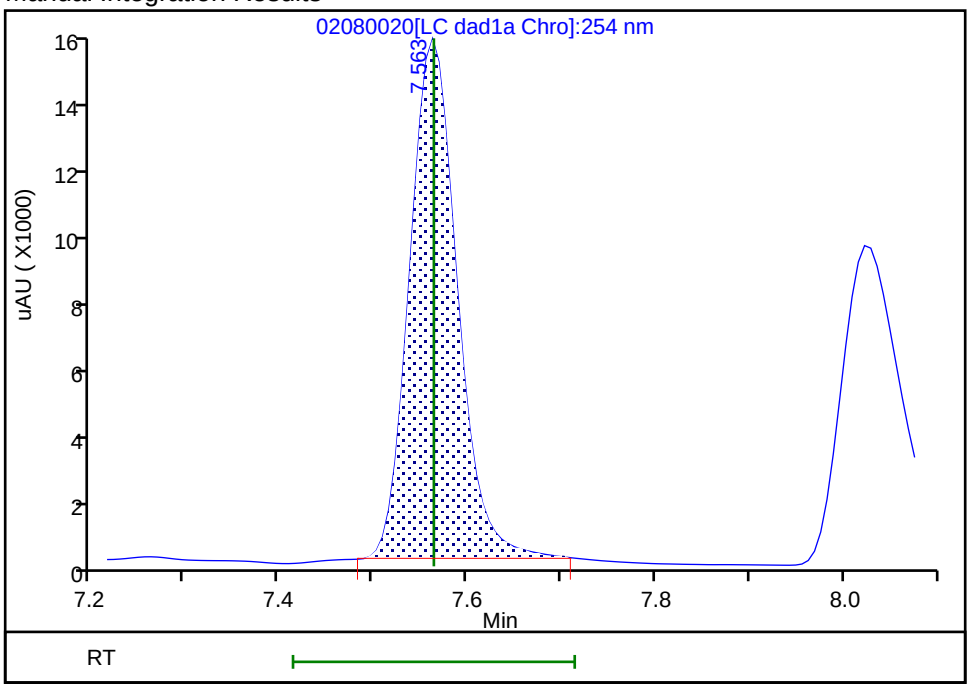
Processing Integration Results

RT: 7.56
Area: 54996
Amount: 0.516978
Amount Units: ug/mL



Manual Integration Results

RT: 7.56
Area: 52821
Amount: 0.496532
Amount Units: ug/mL



Reviewer: LV5D, 08-Feb-2023 19:32:23

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: ICV 280-603284/19 Calibration Date: 02/24/2023 18:04

Instrument ID: CHHPLC_X3 Calib Start Date: 02/24/2023 15:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 02/24/2023 17:41

Lab File ID: 02240019.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	197687	197288		499	500	-0.2	20.0
DNX	Ave	144462	141211		491	502	-2.3	20.0
MNX	Ave	131172	134903		602	585	2.8	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: ICV 280-603284/19 Calibration Date: 02/24/2023 18:04

Instrument ID: CHHPLC_X3 Calib Start Date: 02/24/2023 15:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 02/24/2023 17:41

Lab File ID: 02240019.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.45	6.34	6.54
DNX	6.77	6.67	6.87
MNX	7.20	7.05	7.35

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240019.D
Lims ID: ICV DMT
Client ID:
Sample Type: ICV
Inject. Date: 24-Feb-2023 18:04:21 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: ICV DMT
Operator ID: JZ/MAR Instrument ID: CHHPLC_X3
Sublist:

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 28-Feb-2023 13:33:34 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1602

First Level Reviewer: LV5D Date: 28-Feb-2023 11:45:18

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.446	6.443	0.003	98644	0.5000	0.4990	M
6 DNX	1	6.772	6.770	0.002	70888	0.5020	0.4907	M
7 MNX	1	7.199	7.196	0.003	78918	0.5850	0.6016	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330_OP_DMT_00016 Amount Added: 50.00 Units: uL

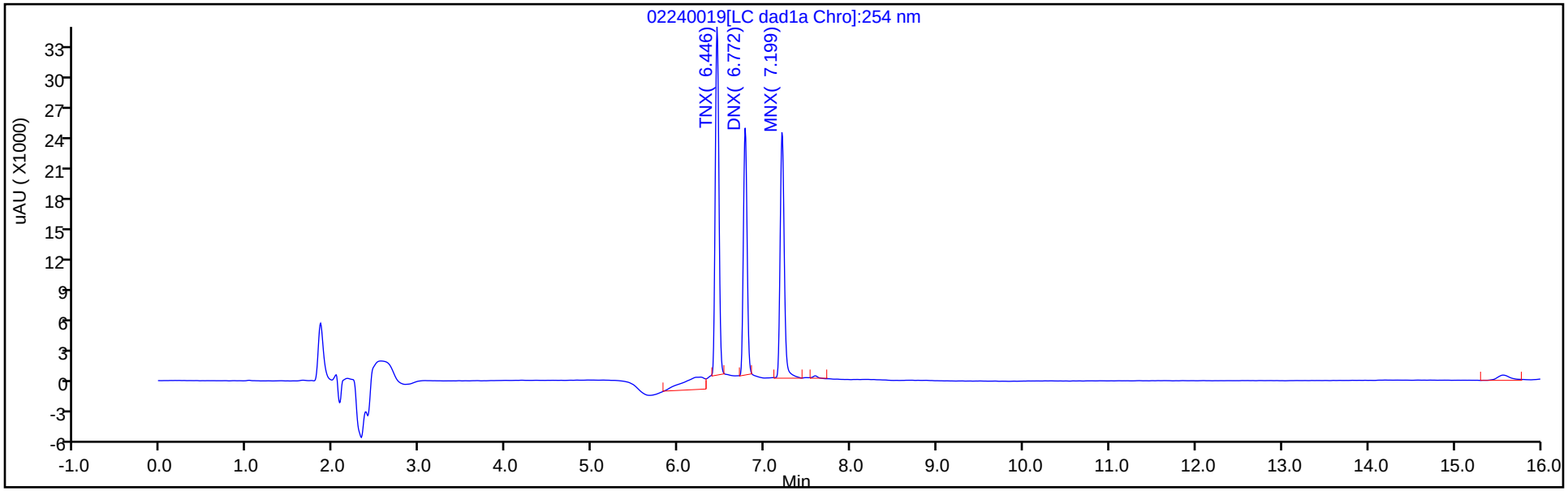
Report Date: 28-Feb-2023 13:33:59 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Denver

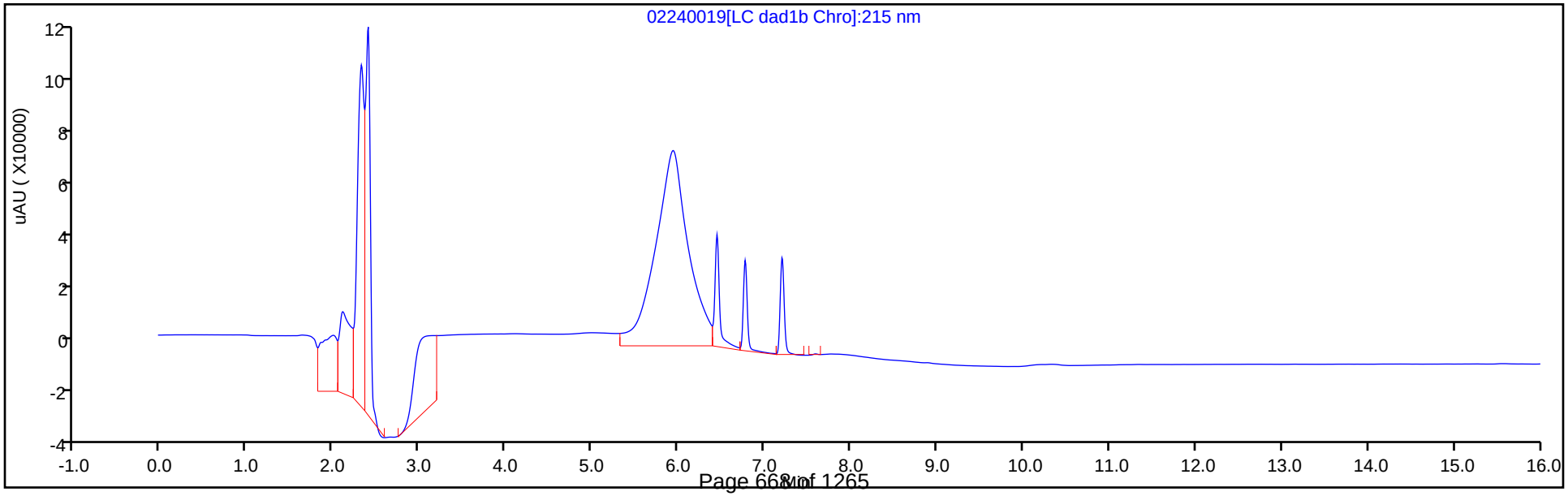
Data File: \\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240019.d

Injection Date:	24-Feb-2023 18:04:21	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/MAR
Lims ID:	ICV DMT			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



Eurofins Denver

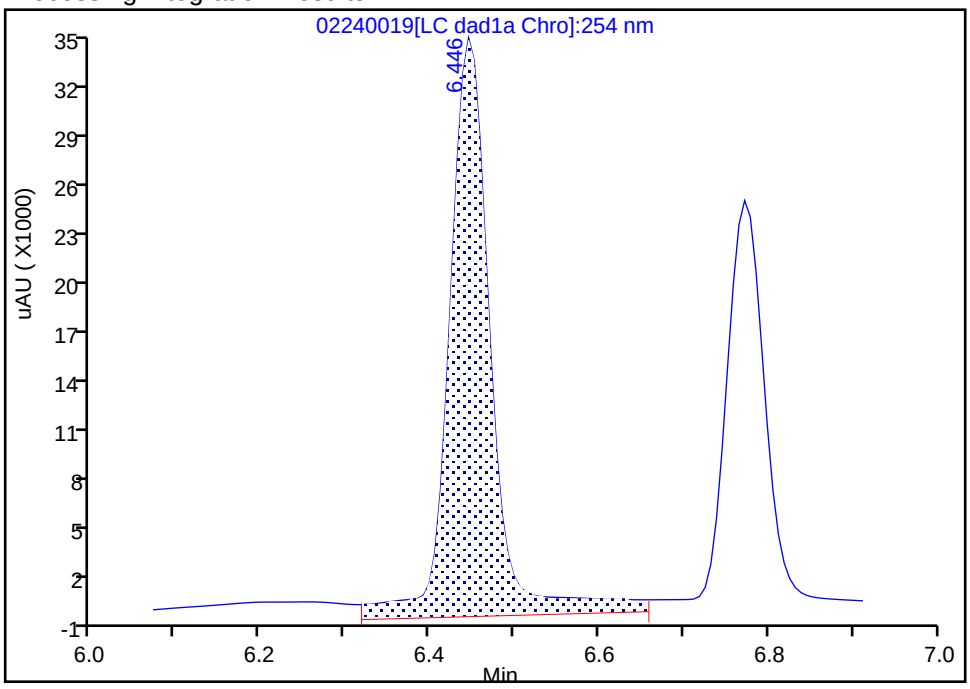
Data File: \\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240019.d
Injection Date: 24-Feb-2023 18:04:21 Instrument ID: CHHPLC_X3
Lims ID: ICV DMT
Client ID:
Operator ID: JZ/MAR ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

3 TNX, CAS: 13980-04-6

Signal: 1

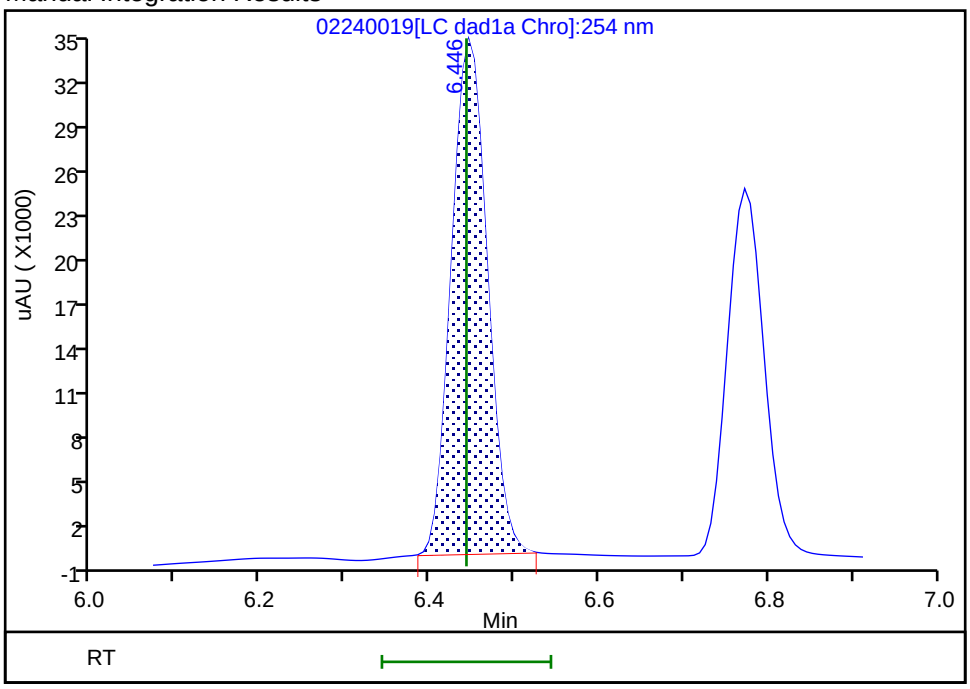
Processing Integration Results

RT: 6.45
Area: 120613
Amount: 0.610120
Amount Units: ug/mL



Manual Integration Results

RT: 6.45
Area: 98644
Amount: 0.498990
Amount Units: ug/mL



Reviewer: LV5D, 28-Feb-2023 11:45:12
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

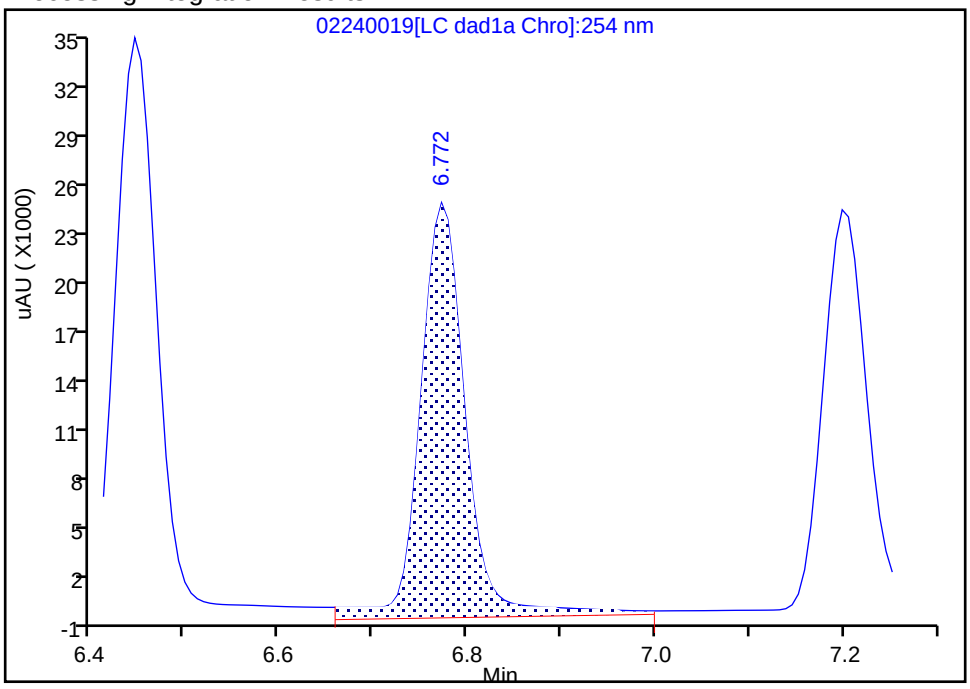
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230224-118952.b\02240019.d				
Injection Date:	24-Feb-2023 18:04:21	Instrument ID:	CHHPLC_X3		
Lims ID:	ICV DMT				
Client ID:					
Operator ID:	JZ/MAR	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 DNX, CAS: 80251-29-2

Signal: 1

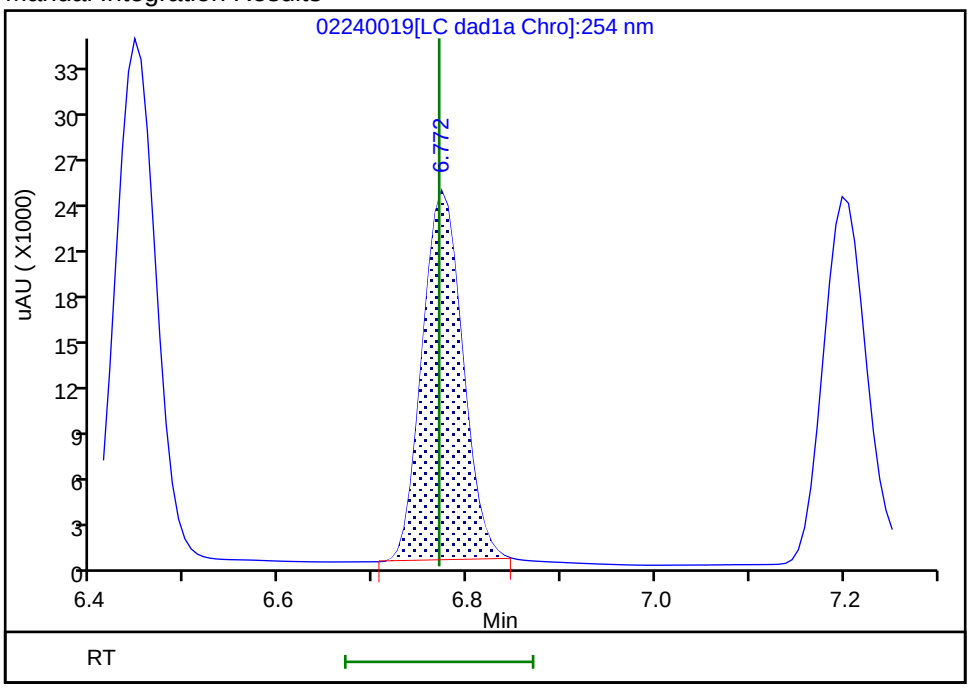
Processing Integration Results

RT: 6.77
Area: 83407
Amount: 0.577361
Amount Units: ug/mL



Manual Integration Results

RT: 6.77
Area: 70888
Amount: 0.490702
Amount Units: ug/mL



Reviewer: LV5D, 28-Feb-2023 11:45:16

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/8 Calibration Date: 05/18/2023 21:23

Instrument ID: CHHPLC_X3 Calib Start Date: 02/08/2023 15:38

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 02/08/2023 18:42

Lab File ID: 05180008.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	93528	104296		279	250	11.5	20.0
RDX	Ave	106380	108908		256	250	2.4	20.0
Picric acid	Ave	75830	79732		263	250	5.1	20.0
1,3,5-Trinitrobenzene	Ave	217147	218532		252	250	0.6	20.0
1,3-Dinitrobenzene	Ave	294397	296852		252	250	0.8	20.0
Nitrobenzene	Ave	191245	189840		248	250	-0.7	20.0
3,5-Dinitroaniline	Lin2		224776		246	250	-1.7	20.0
Tetryl	Ave	164121	144508		220	250	-12.0	20.0
Nitroglycerin	Ave	64070	64633		2520	2500	0.9	20.0
2,4,6-Trinitrotoluene	Ave	211040	205464		243	250	-2.6	20.0
4-Amino-2,6-dinitrotoluene	Ave	154933	152228		246	250	-1.7	20.0
2-Amino-4,6-dinitrotoluene	Ave	201410	194704		242	250	-3.3	20.0
2,6-Dinitrotoluene	Ave	142745	146700		257	250	2.8	20.0
2,4-Dinitrotoluene	Ave	296667	298040		251	250	0.5	20.0
2-Nitrotoluene	Ave	127896	124004		242	250	-3.0	20.0
4-Nitrotoluene	Ave	111880	104848		234	250	-6.3	20.0
3-Nitrotoluene	Ave	140492	134644		240	250	-4.2	20.0
PETN	Ave	68845	70588		2560	2500	2.5	20.0
1,2-Dinitrobenzene	Ave	126309	133520		264	250	5.7	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/8 Calibration Date: 05/18/2023 21:23

Instrument ID: CHHPLC_X3 Calib Start Date: 02/08/2023 15:38

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 02/08/2023 18:42

Lab File ID: 05180008.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.55	6.40	6.70
RDX	7.56	7.41	7.71
Picric acid	7.96	7.81	8.11
1,3,5-Trinitrobenzene	8.64	8.49	8.79
1,3-Dinitrobenzene	9.25	9.10	9.40
Nitrobenzene	9.63	9.48	9.78
3,5-Dinitroaniline	9.86	9.71	10.01
Tetryl	9.99	9.84	10.14
Nitroglycerin	10.44	10.29	10.59
2,4,6-Trinitrotoluene	10.87	10.77	10.97
4-Amino-2,6-dinitrotoluene	11.07	10.97	11.17
2-Amino-4,6-dinitrotoluene	11.32	11.22	11.42
2,6-Dinitrotoluene	11.47	11.37	11.57
2,4-Dinitrotoluene	11.64	11.54	11.74
2-Nitrotoluene	12.46	12.31	12.61
4-Nitrotoluene	12.87	12.72	13.02
3-Nitrotoluene	13.45	13.30	13.60
PETN	14.60	14.45	14.75
1,2-Dinitrobenzene	8.51	8.36	8.66

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180008.D
Lims ID: CCV DMT
Client ID:
Sample Type: CCV
Inject. Date: 18-May-2023 21:23:23 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV DMT
Operator ID: JZ/JG Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub27

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:49 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 11:37:16

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.426	6.426	0.000	47634	0.2508	0.2410	
4 HMX	1	6.546	6.546	0.000	26074	0.2500	0.2788	
6 DNX	1	6.753	6.753	0.000	35401	0.2503	0.2451	
7 MNX	1	7.180	7.180	0.000	35470	0.2918	0.2704	
8 RDX	1	7.560	7.560	0.000	27227	0.2500	0.2559	
9 2,4,6-Trinitrophenol	1	7.960	7.960	0.000	19933	0.2500	0.2629	
$ 10 1,2-Dinitrobenzene	1	8.513	8.513	0.000	33380	0.2500	0.2643	
11 1,3,5-Trinitrobenzene	1	8.640	8.640	0.000	54633	0.2500	0.2516	
12 1,3-Dinitrobenzene	1	9.253	9.253	0.000	74213	0.2500	0.2521	
13 Nitrobenzene	1	9.626	9.626	0.000	47460	0.2500	0.2482	
14 3,5-Dinitroaniline	1	9.859	9.859	0.000	56194	0.2500	0.2458	
15 Tetryl	1	9.986	9.986	0.000	36127	0.2500	0.2201	
16 Nitroglycerin	2	10.439	10.439	0.000	161583	2.50	2.52	
17 2,4,6-Trinitrotoluene	1	10.873	10.873	0.000	51366	0.2500	0.2434	
18 4-Amino-2,6-dinitrotoluene	1	11.066	11.066	0.000	38057	0.2500	0.2456	
19 2-Amino-4,6-dinitrotoluene	1	11.319	11.319	0.000	48676	0.2500	0.2417	
20 2,6-Dinitrotoluene	1	11.473	11.473	0.000	36675	0.2500	0.2569	
21 2,4-Dinitrotoluene	1	11.639	11.639	0.000	74510	0.2500	0.2512	
22 o-Nitrotoluene	1	12.459	12.459	0.000	31001	0.2500	0.2424	
23 p-Nitrotoluene	1	12.873	12.873	0.000	26212	0.2500	0.2343	
24 m-Nitrotoluene	1	13.446	13.446	0.000	33661	0.2500	0.2396	
25 PETN	2	14.599	14.599	0.000	176471	2.50	2.56	

QC Flag Legend
Processing Flags

Reagents:

8330 DMT_00013	Amount Added:	12.50	Units: uL
8330IntermStk_00075	Amount Added:	25.00	Units: uL

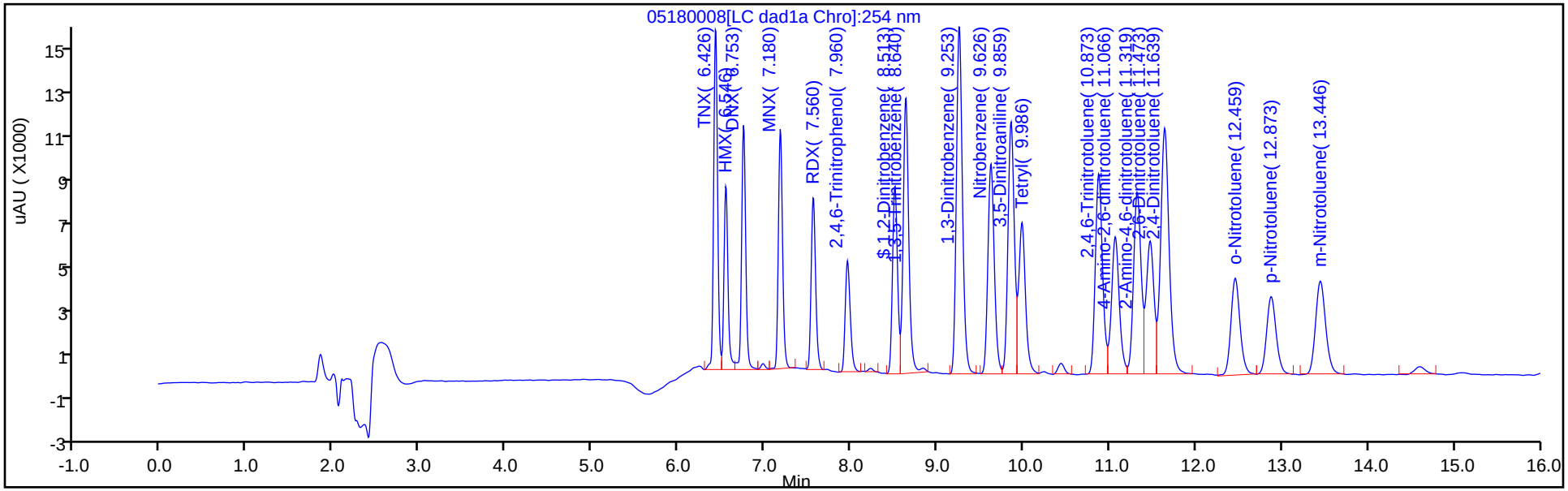
Report Date: 19-May-2023 12:21:49 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

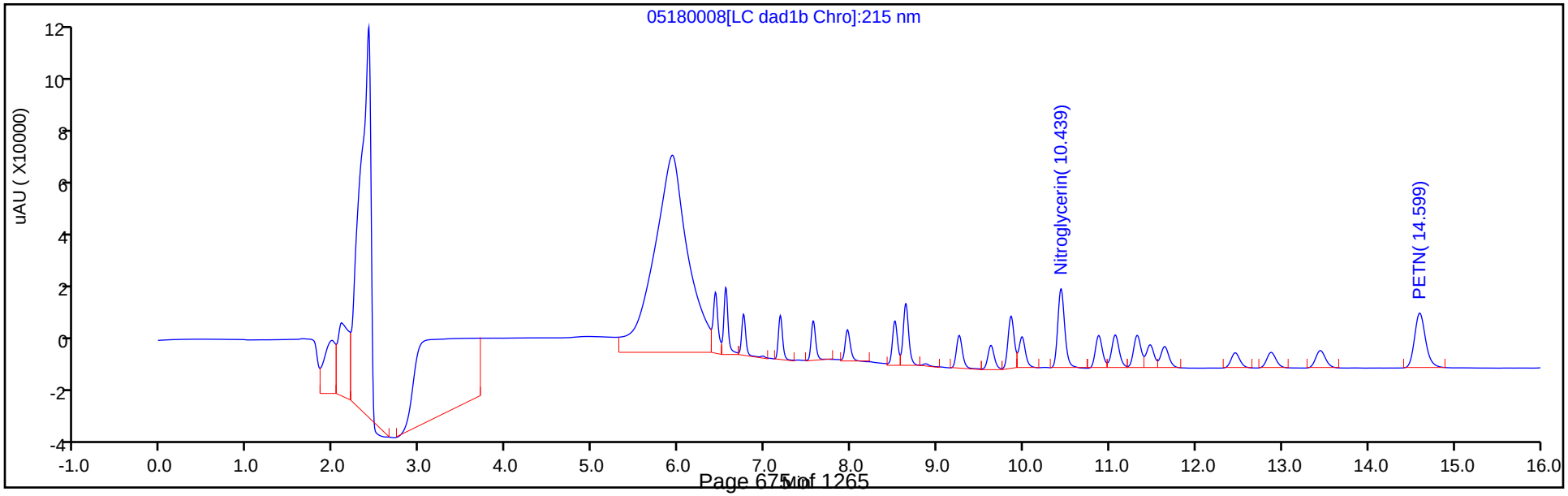
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180008.d

Injection Date:	18-May-2023 21:23:23	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	CCV DMT			Worklist Smp#:	8
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



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/8 Calibration Date: 05/18/2023 21:23

Instrument ID: CHHPLC_X3 Calib Start Date: 02/24/2023 15:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 02/24/2023 17:41

Lab File ID: 05180008.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	197687	189966		241	251	-3.9	20.0
DNX	Ave	144462	141463		245	250	-2.1	20.0
MNX	Ave	131172	121577		270	292	-7.3	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/8 Calibration Date: 05/18/2023 21:23

Instrument ID: CHHPLC_X3 Calib Start Date: 02/24/2023 15:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 02/24/2023 17:41

Lab File ID: 05180008.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.43	6.33	6.53
DNX	6.75	6.65	6.85
MNX	7.18	7.03	7.33

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180008.D
Lims ID: CCV DMT
Client ID:
Sample Type: CCV
Inject. Date: 18-May-2023 21:23:23 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV DMT
Operator ID: JZ/JG Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub27

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:49 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 11:37:16

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.426	6.426	0.000	47634	0.2508	0.2410	
4 HMX	1	6.546	6.546	0.000	26074	0.2500	0.2788	
6 DNX	1	6.753	6.753	0.000	35401	0.2503	0.2451	
7 MNX	1	7.180	7.180	0.000	35470	0.2918	0.2704	
8 RDX	1	7.560	7.560	0.000	27227	0.2500	0.2559	
9 2,4,6-Trinitrophenol	1	7.960	7.960	0.000	19933	0.2500	0.2629	
$ 10 1,2-Dinitrobenzene	1	8.513	8.513	0.000	33380	0.2500	0.2643	
11 1,3,5-Trinitrobenzene	1	8.640	8.640	0.000	54633	0.2500	0.2516	
12 1,3-Dinitrobenzene	1	9.253	9.253	0.000	74213	0.2500	0.2521	
13 Nitrobenzene	1	9.626	9.626	0.000	47460	0.2500	0.2482	
14 3,5-Dinitroaniline	1	9.859	9.859	0.000	56194	0.2500	0.2458	
15 Tetryl	1	9.986	9.986	0.000	36127	0.2500	0.2201	
16 Nitroglycerin	2	10.439	10.439	0.000	161583	2.50	2.52	
17 2,4,6-Trinitrotoluene	1	10.873	10.873	0.000	51366	0.2500	0.2434	
18 4-Amino-2,6-dinitrotoluene	1	11.066	11.066	0.000	38057	0.2500	0.2456	
19 2-Amino-4,6-dinitrotoluene	1	11.319	11.319	0.000	48676	0.2500	0.2417	
20 2,6-Dinitrotoluene	1	11.473	11.473	0.000	36675	0.2500	0.2569	
21 2,4-Dinitrotoluene	1	11.639	11.639	0.000	74510	0.2500	0.2512	
22 o-Nitrotoluene	1	12.459	12.459	0.000	31001	0.2500	0.2424	
23 p-Nitrotoluene	1	12.873	12.873	0.000	26212	0.2500	0.2343	
24 m-Nitrotoluene	1	13.446	13.446	0.000	33661	0.2500	0.2396	
25 PETN	2	14.599	14.599	0.000	176471	2.50	2.56	

QC Flag Legend
Processing Flags

Reagents:

8330 DMT_00013	Amount Added:	12.50	Units: uL
8330IntermStk_00075	Amount Added:	25.00	Units: uL

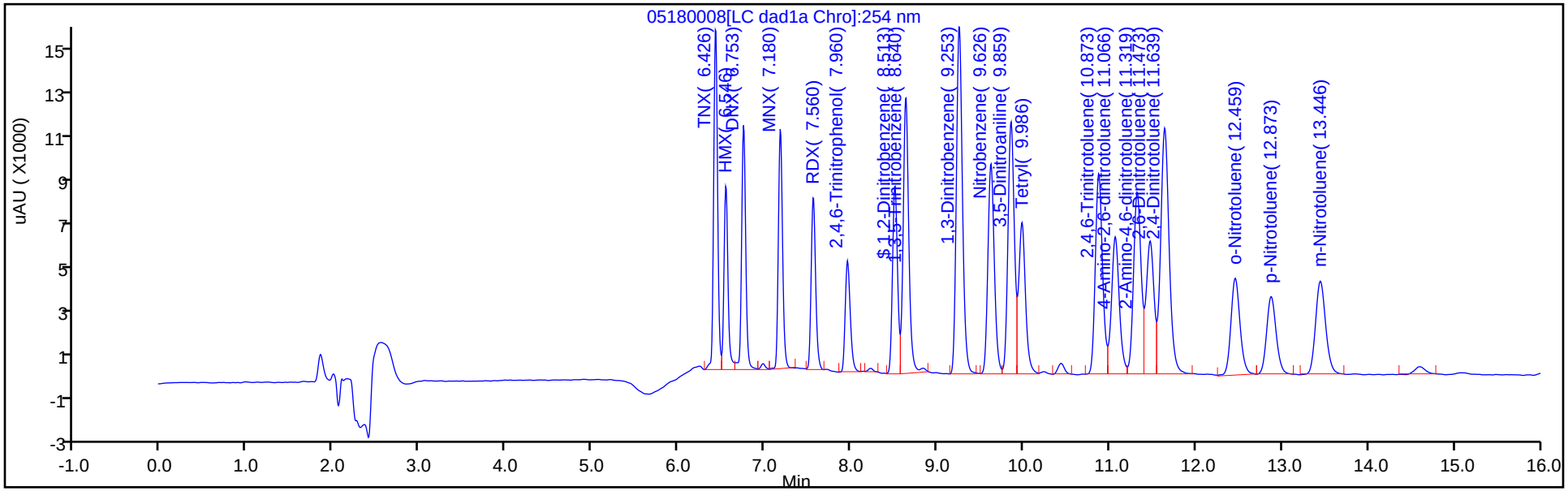
Report Date: 19-May-2023 12:21:49 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

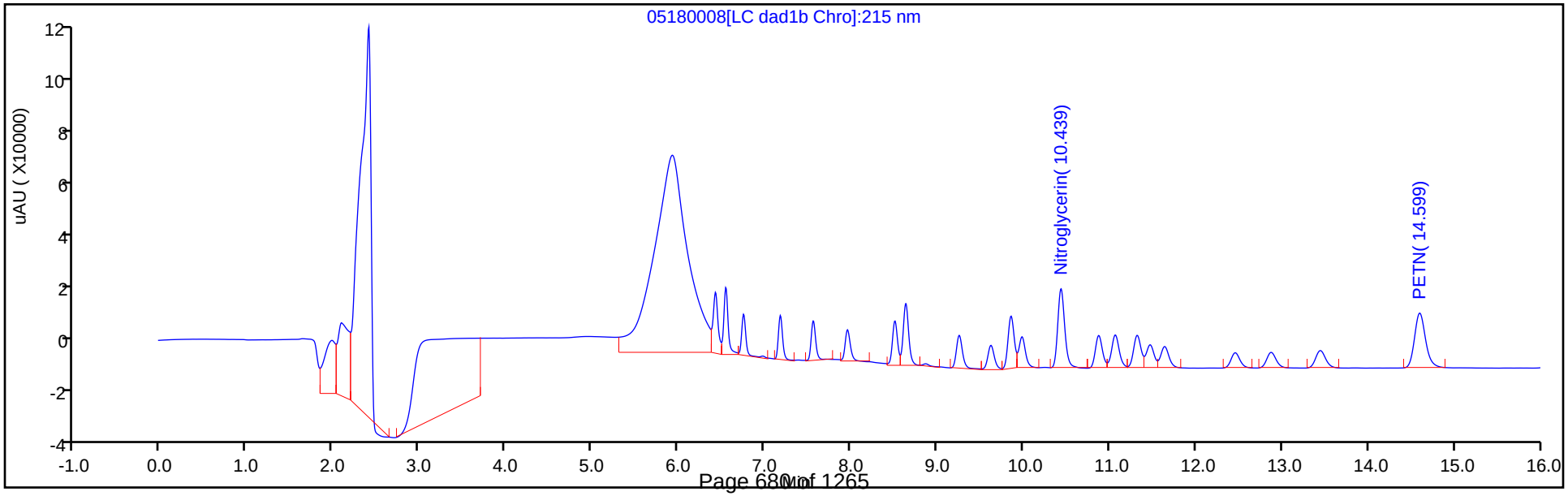
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180008.d

Injection Date:	18-May-2023 21:23:23	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	CCV DMT			Worklist Smp#:	8
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



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/9 | Calibration Date: 05/18/2023 21:46

Instrument ID: CHHPLC_X3 | Calib Start Date: 01/17/2023 00:33

GC Column: UltraCarb5uODS ID: 4.60(mm) | Calib End Date: 01/17/2023 03:16

Lab File ID: 05180009.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,6-diamino-4-nitrotoluene	Lin2		216144		231	250	-7.4	20.0
2,4-diamino-6-nitrotoluene	Ave	146472	140532		240	250	-4.1	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/9 Calibration Date: 05/18/2023 21:46

Instrument ID: CHHPLC_X3 Calib Start Date: 01/17/2023 00:33

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 01/17/2023 03:16

Lab File ID: 05180009.D

Analyte	RT	RT WINDOW	
		FROM	TO
2,6-diamino-4-nitrotoluene	6.43	6.28	6.58
2,4-diamino-6-nitrotoluene	6.62	6.47	6.77

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180009.D
Lims ID: CCV ADD
Client ID:
Sample Type: CCV
Inject. Date: 18-May-2023 21:46:19 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV ADD
Operator ID: JZ/JG Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub28

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:50 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 11:37:23

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 2,6-diamino-4-nitrotoluene	1	6.431	6.431	0.000	54036	0.2500	0.2315	
5 2,4-diamino-6-nitrotoluene	1	6.618	6.618	0.000	35133	0.2500	0.2399	

Reagents:

8330_ADDs_00037 Amount Added: 12.50 Units: uL

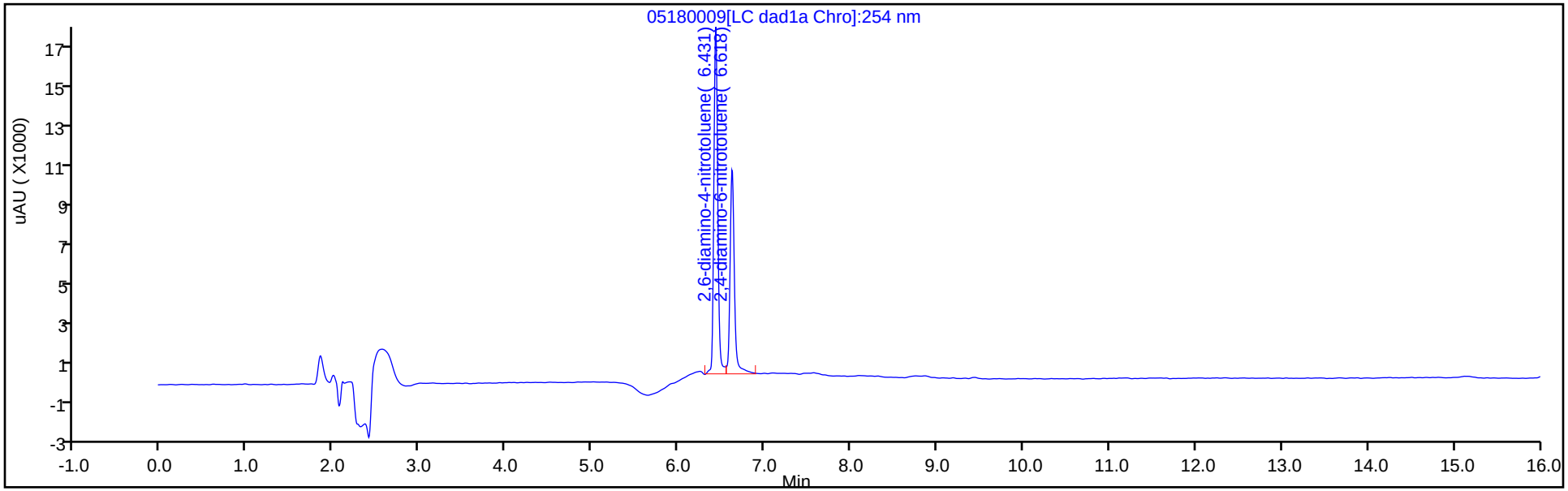
Report Date: 19-May-2023 12:21:50 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

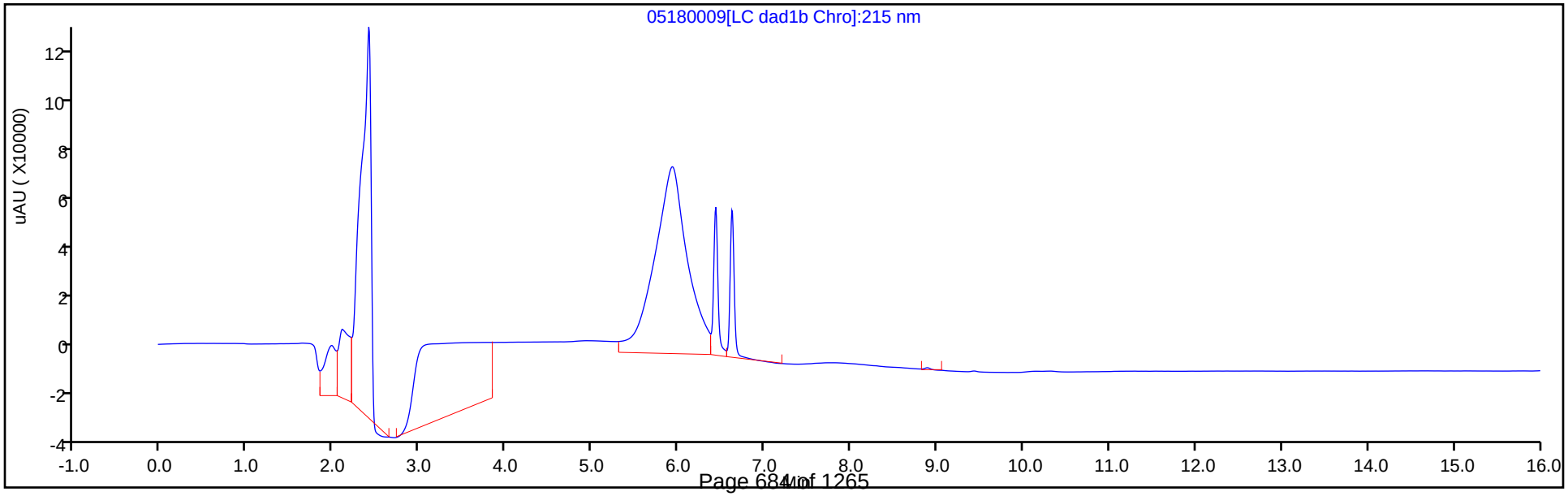
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180009.d

Injection Date:	18-May-2023 21:46:19	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	CCV ADD			Worklist Smp#:	9
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
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



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/21 Calibration Date: 05/19/2023 01:58

Instrument ID: CHHPLC_X3 Calib Start Date: 02/08/2023 15:38

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 02/08/2023 18:42

Lab File ID: 05180021.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	93528	92860		248	250	-0.7	20.0
RDX	Ave	106380	109604		258	250	3.0	20.0
Picric acid	Ave	75830	80856		267	250	6.6	20.0
1,3,5-Trinitrobenzene	Ave	217147	220432		254	250	1.5	20.0
1,3-Dinitrobenzene	Ave	294397	299652		254	250	1.8	20.0
Nitrobenzene	Ave	191245	188016		246	250	-1.7	20.0
3,5-Dinitroaniline	Lin2		225852		247	250	-1.2	20.0
Tetryl	Ave	164121	145120		221	250	-11.6	20.0
Nitroglycerin	Ave	64070	65152		2540	2500	1.7	20.0
2,4,6-Trinitrotoluene	Ave	211040	206512		245	250	-2.1	20.0
4-Amino-2,6-dinitrotoluene	Ave	154933	153404		248	250	-1.0	20.0
2-Amino-4,6-dinitrotoluene	Ave	201410	194876		242	250	-3.2	20.0
2,6-Dinitrotoluene	Ave	142745	147520		258	250	3.3	20.0
2,4-Dinitrotoluene	Ave	296667	299320		252	250	0.9	20.0
2-Nitrotoluene	Ave	127896	122224		239	250	-4.4	20.0
4-Nitrotoluene	Ave	111880	104200		233	250	-6.9	20.0
3-Nitrotoluene	Ave	140492	132824		236	250	-5.5	20.0
PETN	Ave	68845	70660		2570	2500	2.6	20.0
1,2-Dinitrobenzene	Ave	126309	132704		263	250	5.1	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/21 Calibration Date: 05/19/2023 01:58

Instrument ID: CHHPLC_X3 Calib Start Date: 02/08/2023 15:38

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 02/08/2023 18:42

Lab File ID: 05180021.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.55	6.40	6.70
RDX	7.57	7.41	7.71
Picric acid	7.97	7.81	8.11
1,3,5-Trinitrobenzene	8.64	8.49	8.79
1,3-Dinitrobenzene	9.26	9.10	9.40
Nitrobenzene	9.63	9.48	9.78
3,5-Dinitroaniline	9.87	9.71	10.01
Tetryl	10.00	9.84	10.14
Nitroglycerin	10.45	10.29	10.59
2,4,6-Trinitrotoluene	10.88	10.77	10.97
4-Amino-2,6-dinitrotoluene	11.08	10.97	11.17
2-Amino-4,6-dinitrotoluene	11.33	11.22	11.42
2,6-Dinitrotoluene	11.48	11.37	11.57
2,4-Dinitrotoluene	11.65	11.54	11.74
2-Nitrotoluene	12.47	12.31	12.61
4-Nitrotoluene	12.89	12.72	13.02
3-Nitrotoluene	13.46	13.30	13.60
PETN	14.62	14.45	14.75
1,2-Dinitrobenzene	8.52	8.36	8.66

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180021.D
Lims ID: CCV DMT
Client ID:
Sample Type: CCV
Inject. Date: 19-May-2023 01:58:46 ALS Bottle#: 7 Worklist Smp#: 21
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV DMT
Operator ID: JZ/JG Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub27

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:57 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 11:36:59

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3	TNX	1	6.429	6.426	0.003	44280	0.2508	0.2240	M
4	HMX	1	6.549	6.546	0.003	23215	0.2500	0.2482	M
6	DNX	1	6.756	6.753	0.003	32391	0.2503	0.2242	M
7	MNX	1	7.183	7.180	0.003	35336	0.2918	0.2694	
8	RDX	1	7.569	7.560	0.009	27401	0.2500	0.2576	
9	2,4,6-Trinitrophenol	1	7.969	7.960	0.009	20214	0.2500	0.2666	
$ 10	1,2-Dinitrobenzene	1	8.516	8.513	0.003	33176	0.2500	0.2627	
11	1,3,5-Trinitrobenzene	1	8.643	8.640	0.003	55108	0.2500	0.2538	
12	1,3-Dinitrobenzene	1	9.262	9.253	0.009	74913	0.2500	0.2545	
13	Nitrobenzene	1	9.629	9.626	0.003	47004	0.2500	0.2458	
14	3,5-Dinitroaniline	1	9.869	9.859	0.010	56463	0.2500	0.2470	
15	Tetryl	1	9.996	9.986	0.010	36280	0.2500	0.2211	
16	Nitroglycerin	2	10.449	10.439	0.010	162879	2.50	2.54	
17	2,4,6-Trinitrotoluene	1	10.882	10.873	0.009	51628	0.2500	0.2446	
18	4-Amino-2,6-dinitrotoluene	1	11.076	11.066	0.010	38351	0.2500	0.2475	
19	2-Amino-4,6-dinitrotoluene	1	11.329	11.319	0.010	48719	0.2500	0.2419	
20	2,6-Dinitrotoluene	1	11.482	11.473	0.009	36880	0.2500	0.2584	
21	2,4-Dinitrotoluene	1	11.649	11.639	0.010	74830	0.2500	0.2522	
22	o-Nitrotoluene	1	12.469	12.459	0.010	30556	0.2500	0.2389	
23	p-Nitrotoluene	1	12.889	12.873	0.016	26050	0.2500	0.2328	
24	m-Nitrotoluene	1	13.456	13.446	0.010	33206	0.2500	0.2364	
25	PETN	2	14.616	14.599	0.017	176650	2.50	2.57	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00013	Amount Added:	12.50	Units: uL
8330IntermStk_00075	Amount Added:	25.00	Units: uL

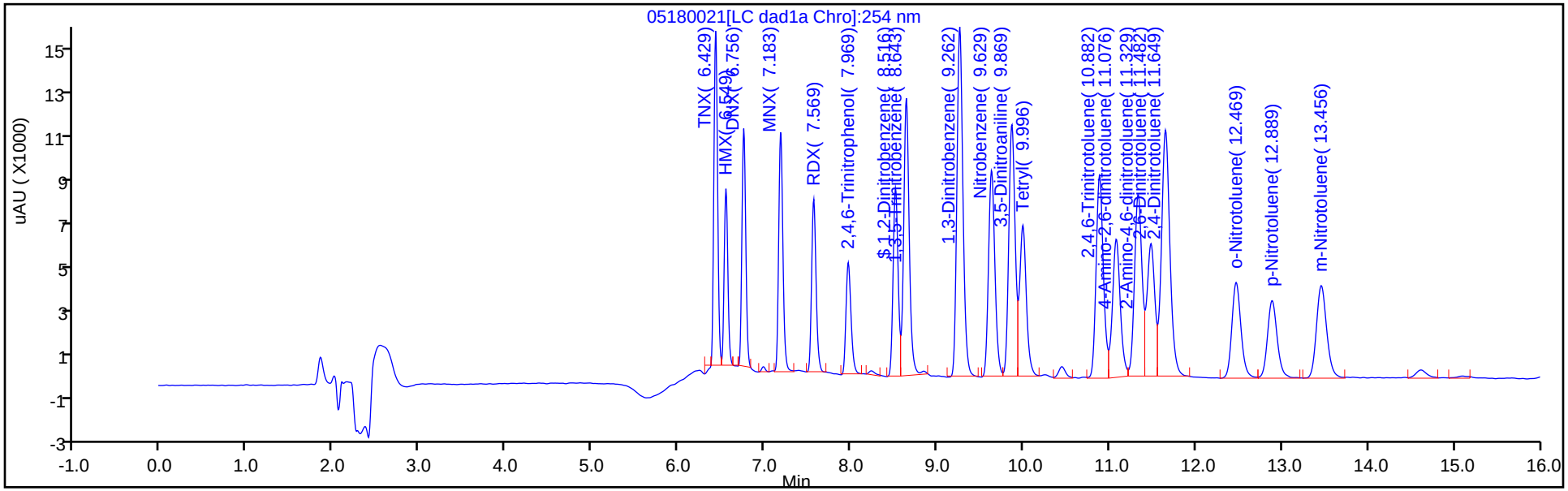
Report Date: 19-May-2023 12:21:57 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

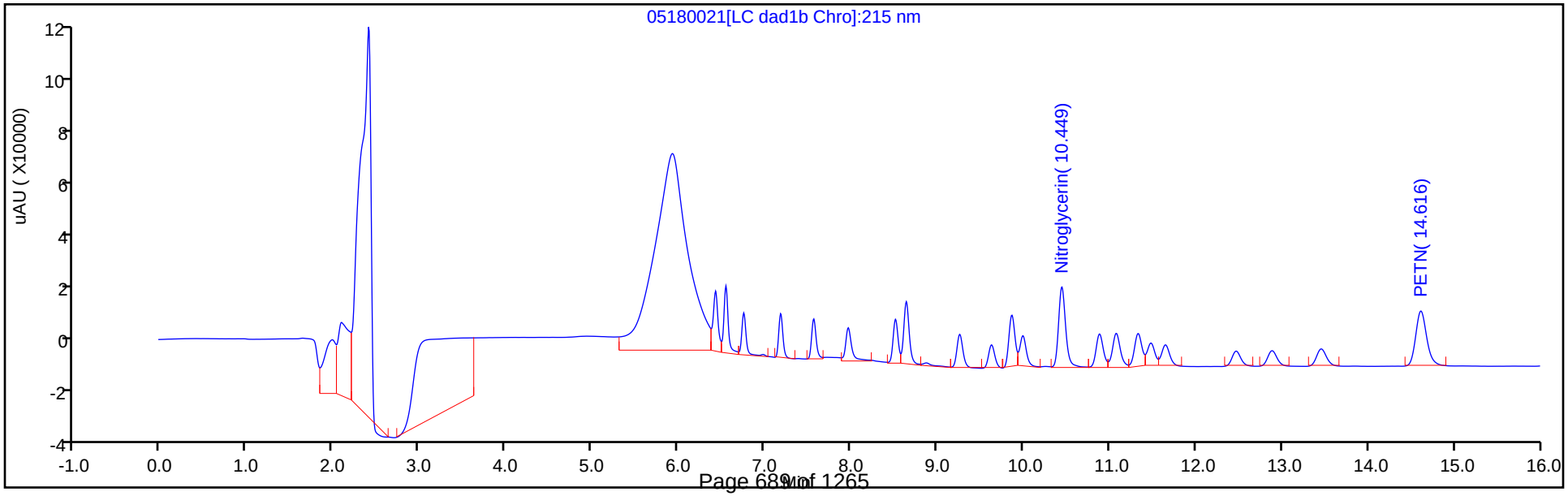
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180021.d

Injection Date:	19-May-2023 01:58:46	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	CCV DMT			Worklist Smp#:	21
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

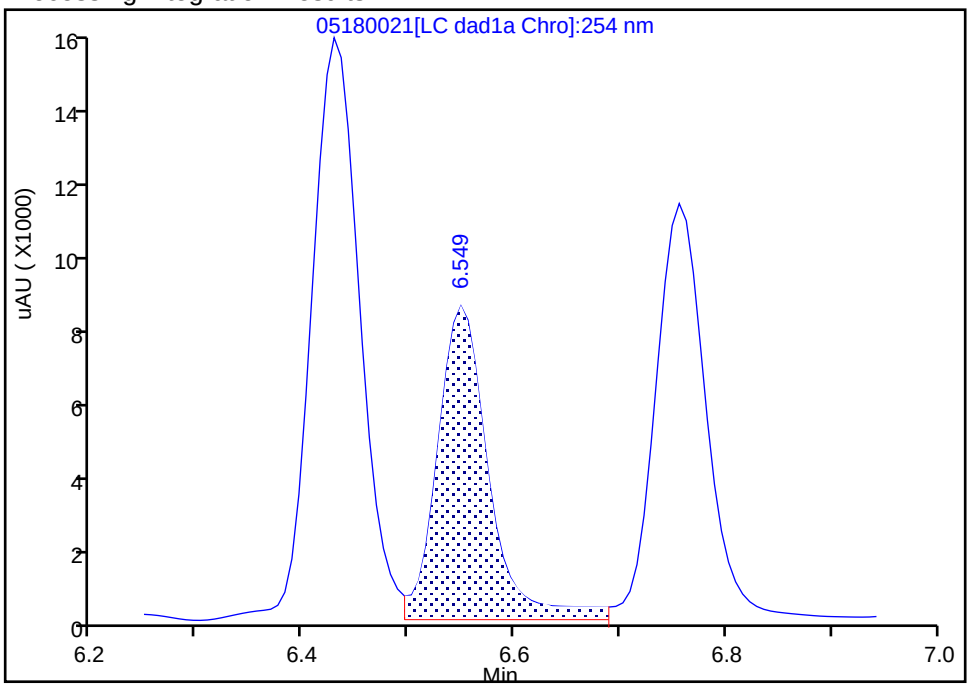
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180021.d				
Injection Date:	19-May-2023 01:58:46	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

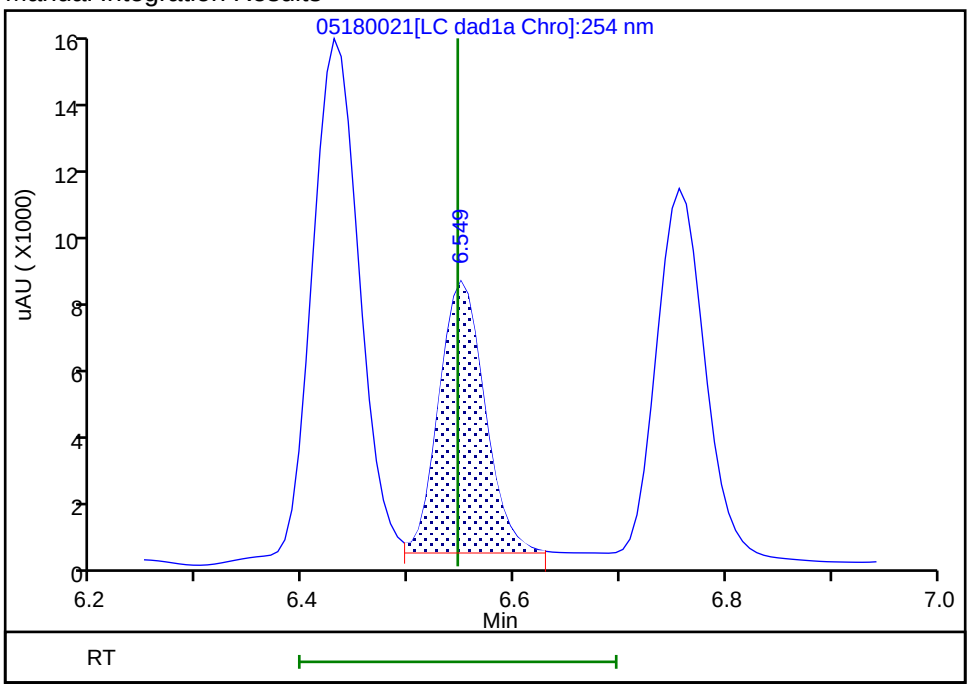
Processing Integration Results

RT: 6.55
Area: 27136
Amount: 0.290137
Amount Units: ug/mL



Manual Integration Results

RT: 6.55
Area: 23215
Amount: 0.248214
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:36:53 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/21 Calibration Date: 05/19/2023 01:58

Instrument ID: CHHPLC_X3 Calib Start Date: 02/24/2023 15:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 02/24/2023 17:41

Lab File ID: 05180021.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	197687	176590		224	251	-10.7	20.0
DNX	Ave	144462	129435		224	250	-10.4	20.0
MNX	Ave	131172	121117		269	292	-7.7	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/21 Calibration Date: 05/19/2023 01:58

Instrument ID: CHHPLC_X3 Calib Start Date: 02/24/2023 15:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 02/24/2023 17:41

Lab File ID: 05180021.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.43	6.33	6.53
DNX	6.76	6.65	6.85
MNX	7.18	7.03	7.33

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180021.D
Lims ID: CCV DMT
Client ID:
Sample Type: CCV
Inject. Date: 19-May-2023 01:58:46 ALS Bottle#: 7 Worklist Smp#: 21
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV DMT
Operator ID: JZ/JG Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub27

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:57 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 11:36:59

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3	TNX	1	6.429	6.426	0.003	44280	0.2508	0.2240	M
4	HMX	1	6.549	6.546	0.003	23215	0.2500	0.2482	M
6	DNX	1	6.756	6.753	0.003	32391	0.2503	0.2242	M
7	MNX	1	7.183	7.180	0.003	35336	0.2918	0.2694	
8	RDX	1	7.569	7.560	0.009	27401	0.2500	0.2576	
9	2,4,6-Trinitrophenol	1	7.969	7.960	0.009	20214	0.2500	0.2666	
$ 10	1,2-Dinitrobenzene	1	8.516	8.513	0.003	33176	0.2500	0.2627	
11	1,3,5-Trinitrobenzene	1	8.643	8.640	0.003	55108	0.2500	0.2538	
12	1,3-Dinitrobenzene	1	9.262	9.253	0.009	74913	0.2500	0.2545	
13	Nitrobenzene	1	9.629	9.626	0.003	47004	0.2500	0.2458	
14	3,5-Dinitroaniline	1	9.869	9.859	0.010	56463	0.2500	0.2470	
15	Tetryl	1	9.996	9.986	0.010	36280	0.2500	0.2211	
16	Nitroglycerin	2	10.449	10.439	0.010	162879	2.50	2.54	
17	2,4,6-Trinitrotoluene	1	10.882	10.873	0.009	51628	0.2500	0.2446	
18	4-Amino-2,6-dinitrotoluene	1	11.076	11.066	0.010	38351	0.2500	0.2475	
19	2-Amino-4,6-dinitrotoluene	1	11.329	11.319	0.010	48719	0.2500	0.2419	
20	2,6-Dinitrotoluene	1	11.482	11.473	0.009	36880	0.2500	0.2584	
21	2,4-Dinitrotoluene	1	11.649	11.639	0.010	74830	0.2500	0.2522	
22	o-Nitrotoluene	1	12.469	12.459	0.010	30556	0.2500	0.2389	
23	p-Nitrotoluene	1	12.889	12.873	0.016	26050	0.2500	0.2328	
24	m-Nitrotoluene	1	13.456	13.446	0.010	33206	0.2500	0.2364	
25	PETN	2	14.616	14.599	0.017	176650	2.50	2.57	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00013	Amount Added:	12.50	Units: uL
8330IntermStk_00075	Amount Added:	25.00	Units: uL

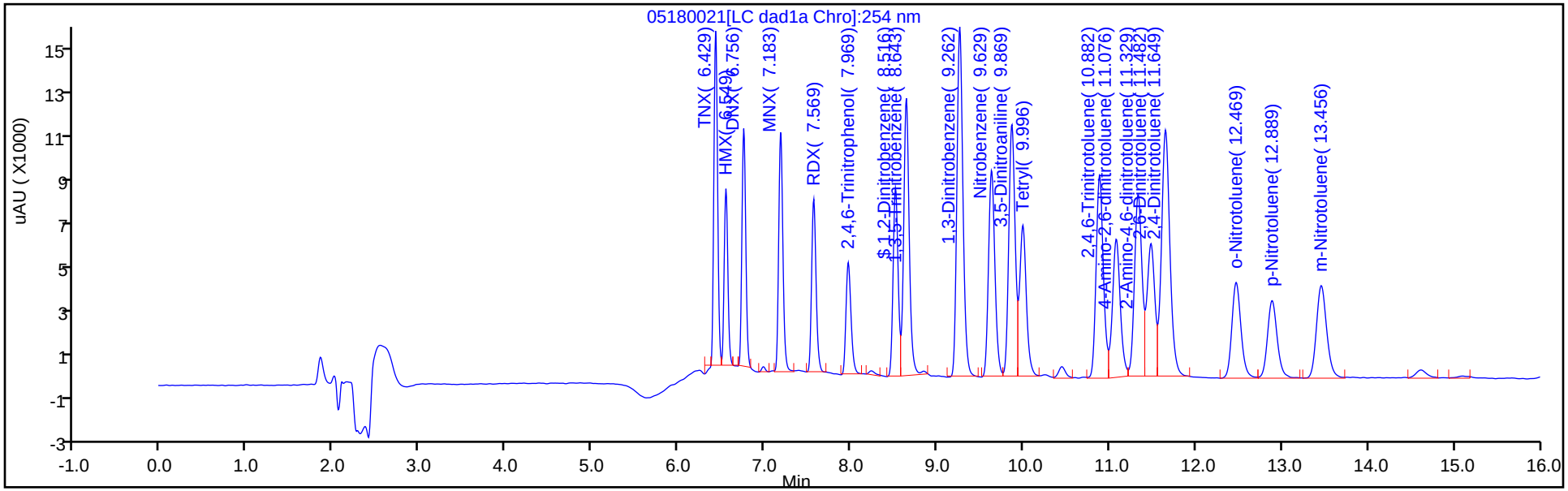
Report Date: 19-May-2023 12:21:57 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

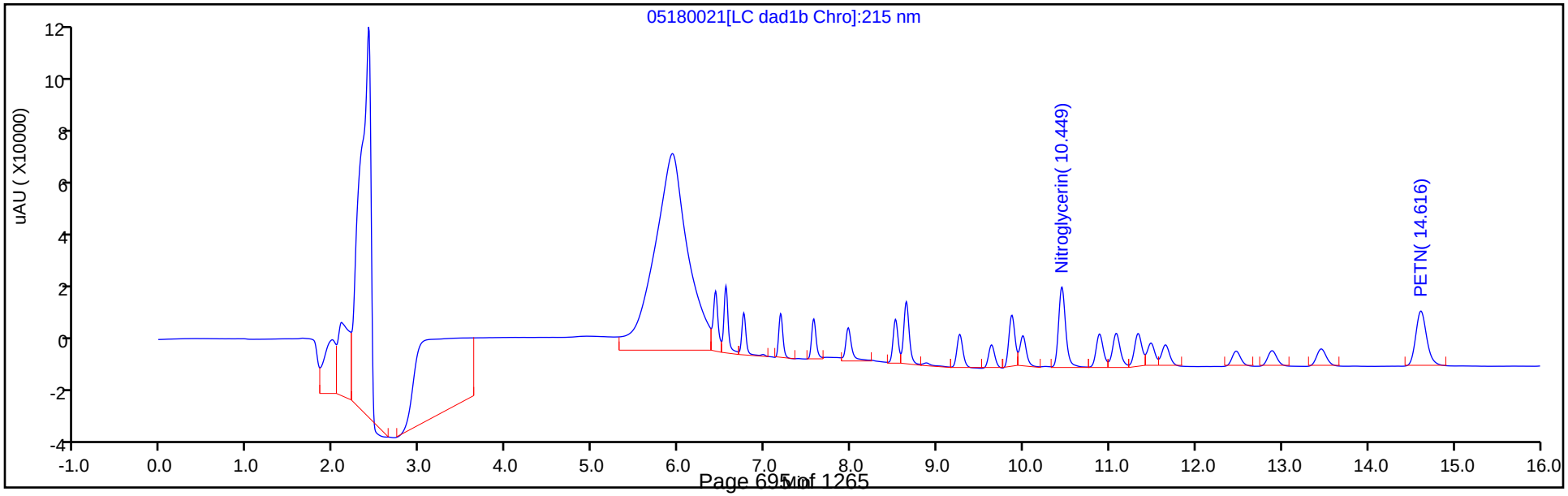
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180021.d

Injection Date:	19-May-2023 01:58:46	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	CCV DMT			Worklist Smp#:	21
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

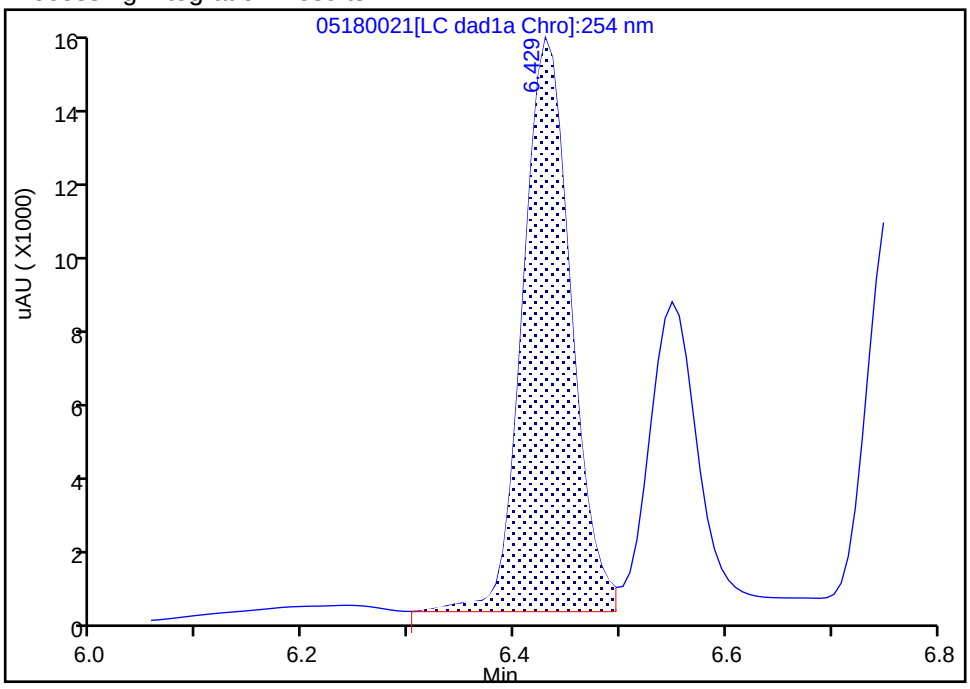
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180021.d				
Injection Date:	19-May-2023 01:58:46	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 TNX, CAS: 13980-04-6

Signal: 1

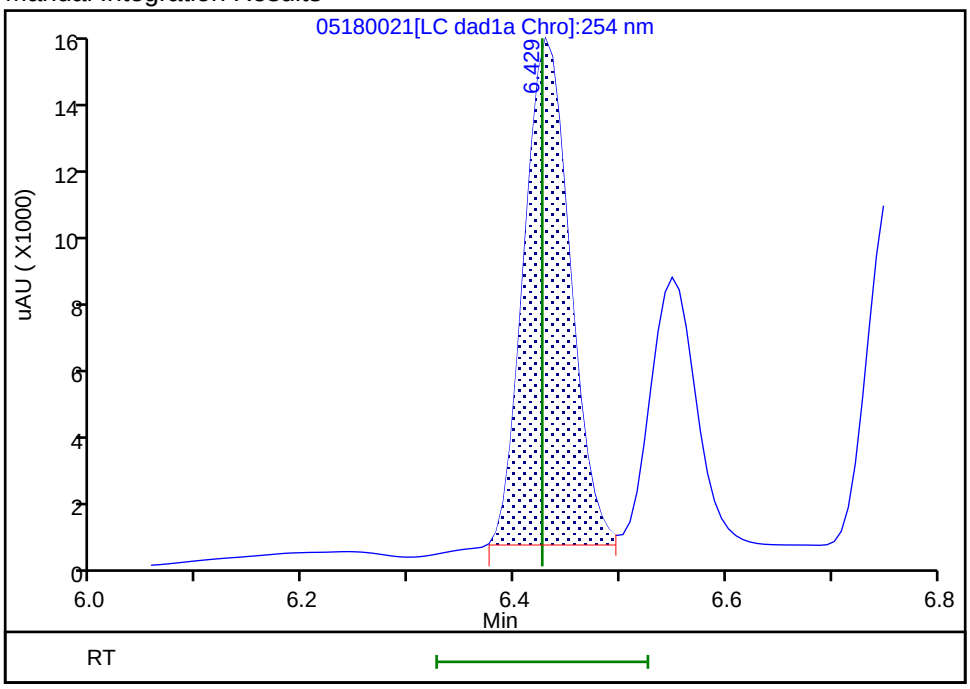
Processing Integration Results

RT: 6.43
Area: 47526
Amount: 0.240410
Amount Units: ug/mL



Manual Integration Results

RT: 6.43
Area: 44280
Amount: 0.223990
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:36:51 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

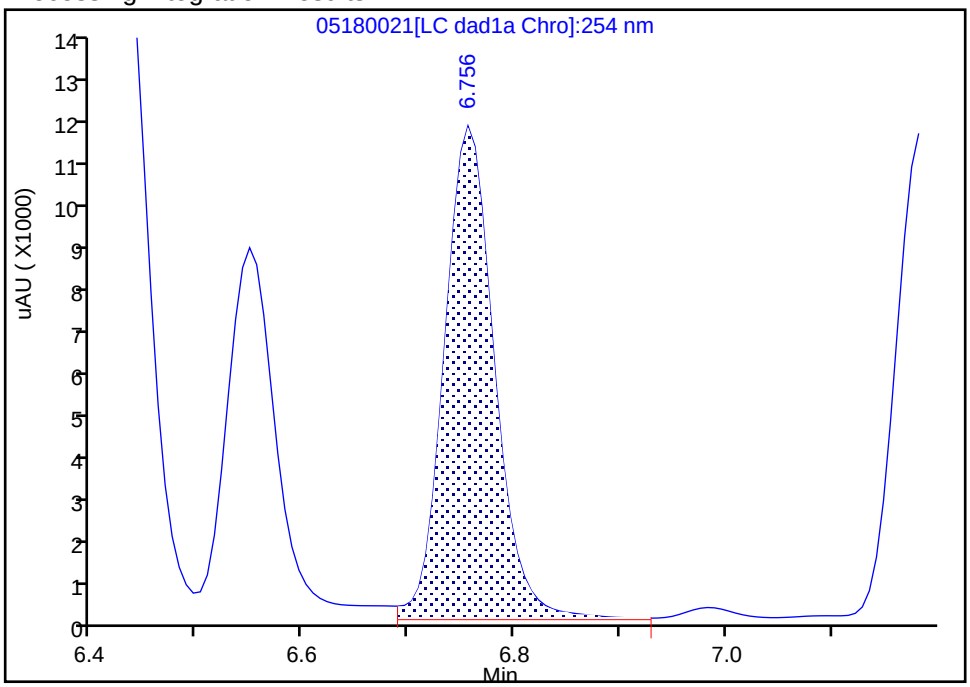
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180021.d				
Injection Date:	19-May-2023 01:58:46	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 DNX, CAS: 80251-29-2

Signal: 1

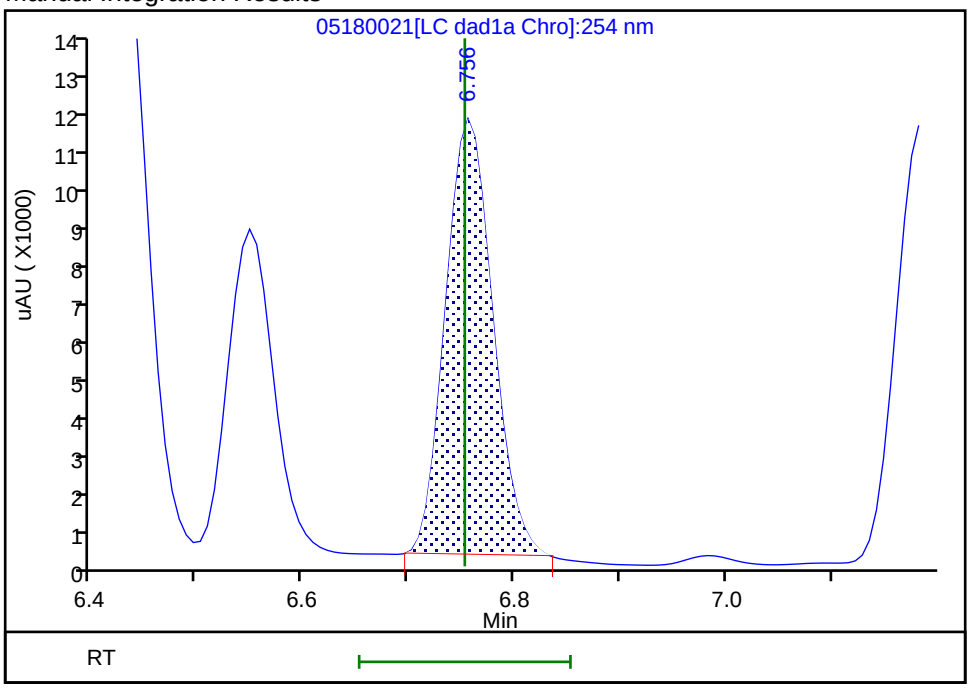
Processing Integration Results

RT: 6.76
Area: 35313
Amount: 0.244444
Amount Units: ug/mL



Manual Integration Results

RT: 6.76
Area: 32391
Amount: 0.224217
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:36:56 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/22 Calibration Date: 05/19/2023 02:21

Instrument ID: CHHPLC_X3 Calib Start Date: 01/17/2023 00:33

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 01/17/2023 03:16

Lab File ID: 05180022.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,6-diamino-4-nitrotoluene	Lin2		211992		227	250	-9.2	20.0
2,4-diamino-6-nitrotoluene	Ave	146472	130280		222	250	-11.1	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/22 Calibration Date: 05/19/2023 02:21

Instrument ID: CHHPLC_X3 Calib Start Date: 01/17/2023 00:33

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 01/17/2023 03:16

Lab File ID: 05180022.D

Analyte	RT	RT WINDOW	
		FROM	TO
2,6-diamino-4-nitrotoluene	6.42	6.28	6.58
2,4-diamino-6-nitrotoluene	6.62	6.47	6.77

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180022.D
Lims ID: CCV ADD
Client ID:
Sample Type: CCV
Inject. Date: 19-May-2023 02:21:49 ALS Bottle#: 8 Worklist Smp#: 22
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV ADD
Operator ID: JZ/JG Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub28

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:58 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 11:37:10

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 2,6-diamino-4-nitrotoluene	1	6.424	6.431	-0.007	52998	0.2500	0.2270	M
5 2,4-diamino-6-nitrotoluene	1	6.617	6.618	-0.001	32570	0.2500	0.2224	M

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330_ADDs_00037 Amount Added: 12.50 Units: uL

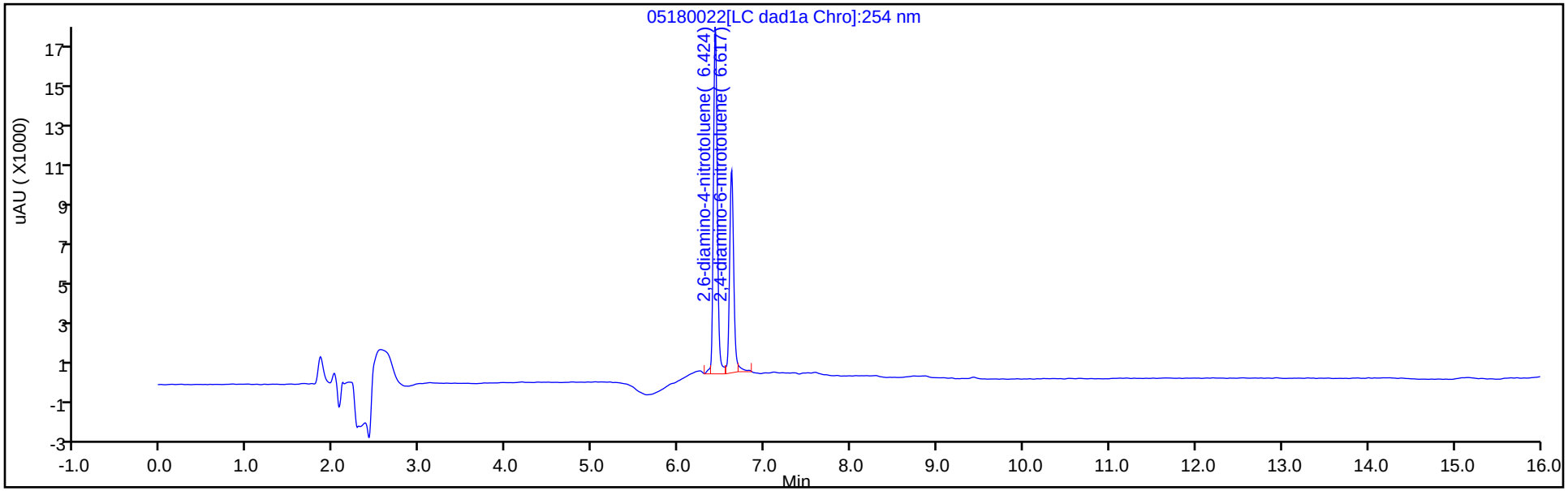
Report Date: 19-May-2023 12:21:58 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

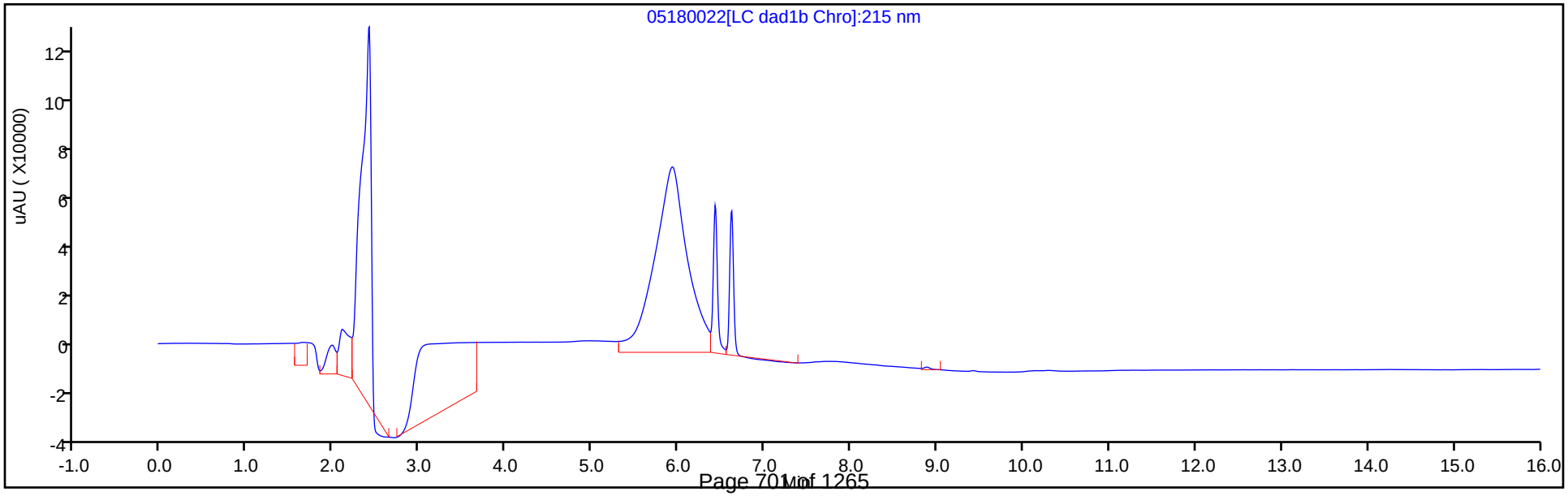
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180022.d

Injection Date:	19-May-2023 02:21:49	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	CCV ADD			Worklist Smp#:	22
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
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

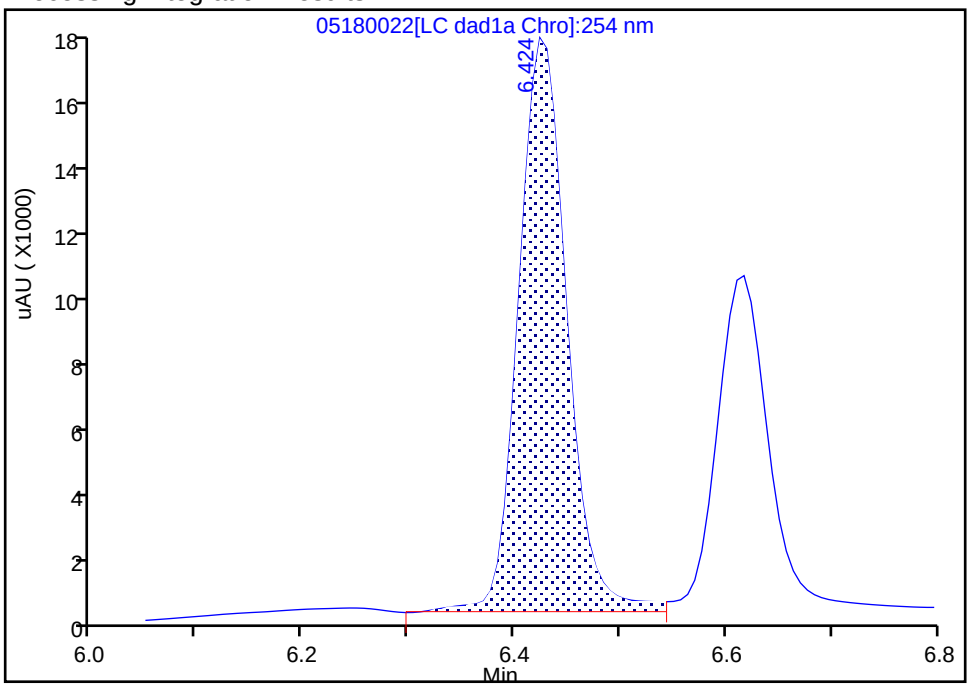
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180022.d				
Injection Date:	19-May-2023 02:21:49	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV ADD				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	8	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 2,6-diamino-4-nitrotoluene, CAS: 59229-75-3

Signal: 1

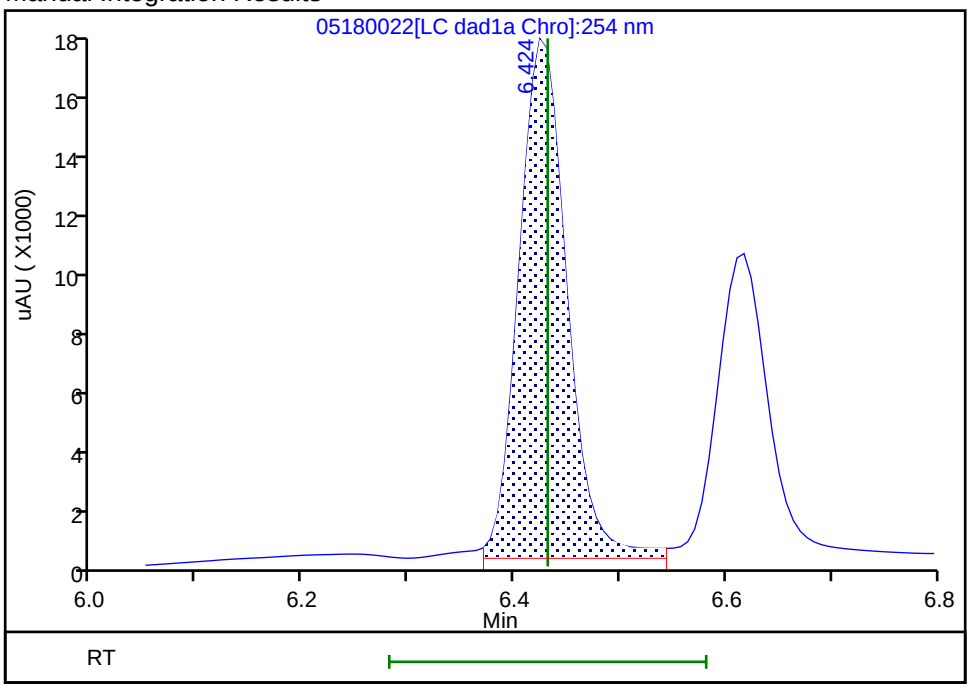
Processing Integration Results

RT: 6.42
Area: 53573
Amount: 0.229475
Amount Units: ug/mL



Manual Integration Results

RT: 6.42
Area: 52998
Amount: 0.226972
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:37:06 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

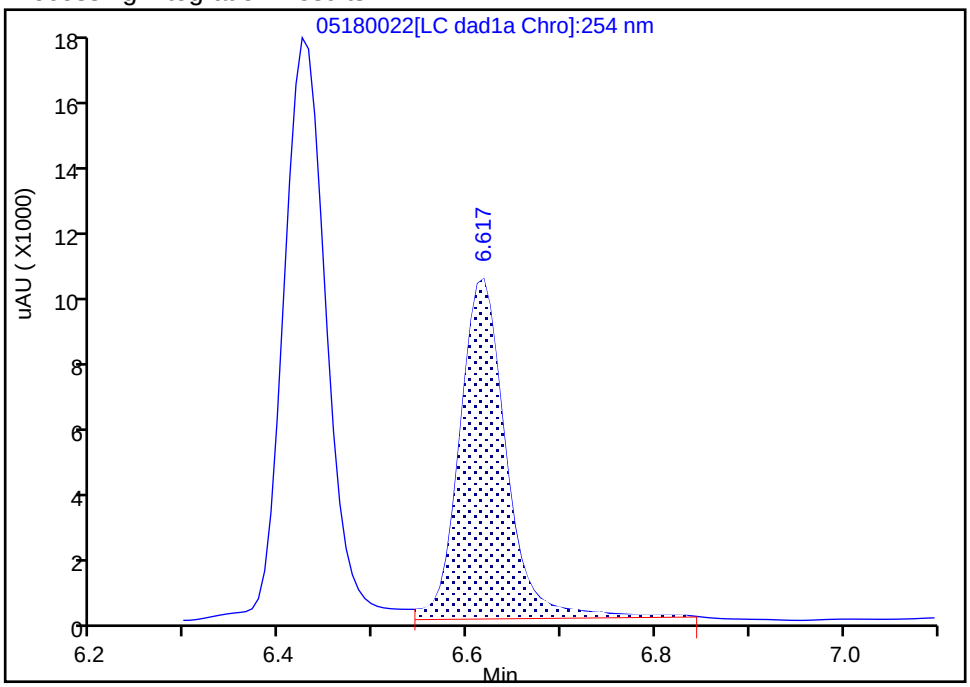
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180022.d				
Injection Date:	19-May-2023 02:21:49	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV ADD				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	8	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 2,4-diamino-6-nitrotoluene, CAS: 6629-29-4

Signal: 1

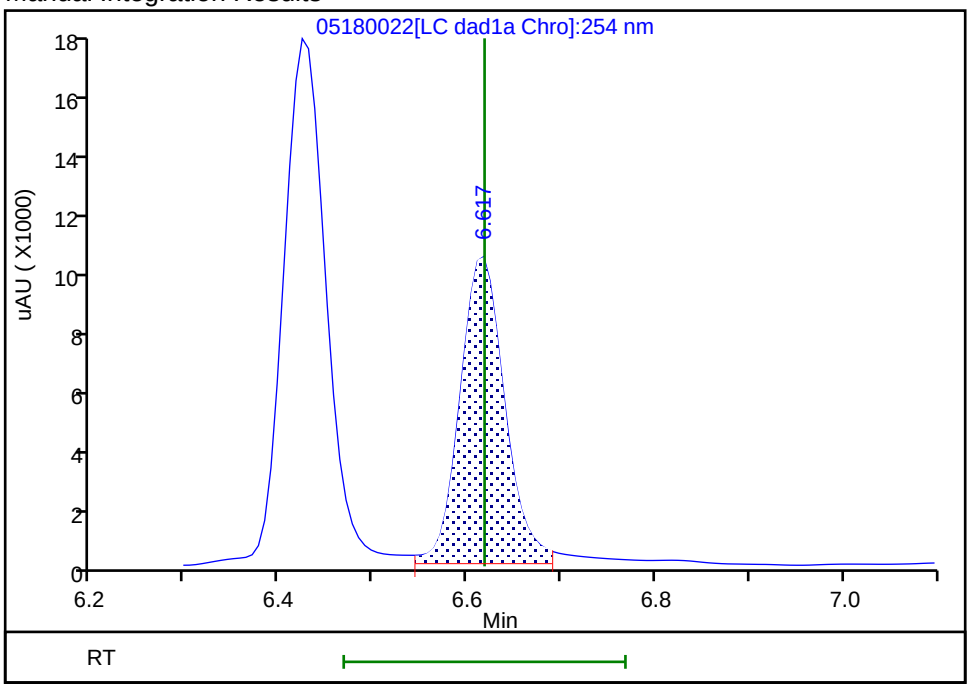
Processing Integration Results

RT: 6.62
Area: 33901
Amount: 0.231450
Amount Units: ug/mL



Manual Integration Results

RT: 6.62
Area: 32570
Amount: 0.222363
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:37:07 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/33 Calibration Date: 05/19/2023 06:34

Instrument ID: CHHPLC_X3 Calib Start Date: 02/08/2023 15:38

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 02/08/2023 18:42

Lab File ID: 05180033.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	93528	93068		249	250	-0.5	20.0
RDX	Ave	106380	110104		259	250	3.5	20.0
Picric acid	Ave	75830	79812		263	250	5.3	20.0
1,3,5-Trinitrobenzene	Ave	217147	219072		252	250	0.9	20.0
1,3-Dinitrobenzene	Ave	294397	298916		254	250	1.5	20.0
Nitrobenzene	Ave	191245	184160		241	250	-3.7	20.0
3,5-Dinitroaniline	Lin2		226064		247	250	-1.1	20.0
Tetryl	Ave	164121	140144		213	250	-14.6	20.0
Nitroglycerin	Ave	64070	65049		2540	2500	1.5	20.0
2,4,6-Trinitrotoluene	Ave	211040	207484		246	250	-1.7	20.0
4-Amino-2,6-dinitrotoluene	Ave	154933	153456		248	250	-1.0	20.0
2-Amino-4,6-dinitrotoluene	Ave	201410	198656		247	250	-1.4	20.0
2,6-Dinitrotoluene	Ave	142745	143420		251	250	0.5	20.0
2,4-Dinitrotoluene	Ave	296667	301392		254	250	1.6	20.0
2-Nitrotoluene	Ave	127896	119520		234	250	-6.5	20.0
4-Nitrotoluene	Ave	111880	102288		229	250	-8.6	20.0
3-Nitrotoluene	Ave	140492	131248		234	250	-6.6	20.0
PETN	Ave	68845	70852		2570	2500	2.9	20.0
1,2-Dinitrobenzene	Ave	126309	133804		265	250	5.9	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/33 Calibration Date: 05/19/2023 06:34

Instrument ID: CHHPLC_X3 Calib Start Date: 02/08/2023 15:38

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 02/08/2023 18:42

Lab File ID: 05180033.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.55	6.40	6.70
RDX	7.58	7.41	7.71
Picric acid	7.98	7.81	8.11
1,3,5-Trinitrobenzene	8.65	8.49	8.79
1,3-Dinitrobenzene	9.28	9.10	9.40
Nitrobenzene	9.65	9.48	9.78
3,5-Dinitroaniline	9.89	9.71	10.01
Tetryl	10.03	9.84	10.14
Nitroglycerin	10.48	10.29	10.59
2,4,6-Trinitrotoluene	10.92	10.77	10.97
4-Amino-2,6-dinitrotoluene	11.12	10.97	11.17
2-Amino-4,6-dinitrotoluene	11.37	11.22	11.42
2,6-Dinitrotoluene	11.52	11.37	11.57
2,4-Dinitrotoluene	11.69	11.54	11.74
2-Nitrotoluene	12.51	12.31	12.61
4-Nitrotoluene	12.93	12.72	13.02
3-Nitrotoluene	13.51	13.30	13.60
PETN	14.69	14.45	14.75
1,2-Dinitrobenzene	8.53	8.36	8.66

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180033.D
Lims ID: CCV DMT
Client ID:
Sample Type: CCV
Inject. Date: 19-May-2023 06:34:09 ALS Bottle#: 7 Worklist Smp#: 33
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV DMT
Operator ID: JZ/JG Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub27

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:22:05 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 12:10:23

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.433	6.426	0.007	44476	0.2508	0.2250	M
4 HMX	1	6.553	6.546	0.007	23267	0.2500	0.2488	M
6 DNX	1	6.760	6.753	0.007	32684	0.2503	0.2262	M
7 MNX	1	7.193	7.180	0.013	35734	0.2918	0.2724	
8 RDX	1	7.580	7.560	0.020	27526	0.2500	0.2588	
9 2,4,6-Trinitrophenol	1	7.980	7.960	0.020	19953	0.2500	0.2631	
$ 10 1,2-Dinitrobenzene	1	8.533	8.513	0.020	33451	0.2500	0.2648	
11 1,3,5-Trinitrobenzene	1	8.653	8.640	0.013	54768	0.2500	0.2522	
12 1,3-Dinitrobenzene	1	9.280	9.253	0.027	74729	0.2500	0.2538	
13 Nitrobenzene	1	9.653	9.626	0.027	46040	0.2500	0.2407	
14 3,5-Dinitroaniline	1	9.893	9.859	0.034	56516	0.2500	0.2473	
15 Tetryl	1	10.026	9.986	0.040	35036	0.2500	0.2135	
16 Nitroglycerin	2	10.480	10.439	0.041	162622	2.50	2.54	
17 2,4,6-Trinitrotoluene	1	10.920	10.873	0.047	51871	0.2500	0.2458	
18 4-Amino-2,6-dinitrotoluene	1	11.120	11.066	0.054	38364	0.2500	0.2476	
19 2-Amino-4,6-dinitrotoluene	1	11.373	11.319	0.054	49664	0.2500	0.2466	
20 2,6-Dinitrotoluene	1	11.520	11.473	0.047	35855	0.2500	0.2512	
21 2,4-Dinitrotoluene	1	11.686	11.639	0.047	75348	0.2500	0.2540	
22 o-Nitrotoluene	1	12.513	12.459	0.054	29880	0.2500	0.2336	
23 p-Nitrotoluene	1	12.933	12.873	0.060	25572	0.2500	0.2286	
24 m-Nitrotoluene	1	13.513	13.446	0.067	32812	0.2500	0.2336	
25 PETN	2	14.686	14.599	0.087	177130	2.50	2.57	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00013	Amount Added:	12.50	Units: uL
8330IntermStk_00075	Amount Added:	25.00	Units: uL

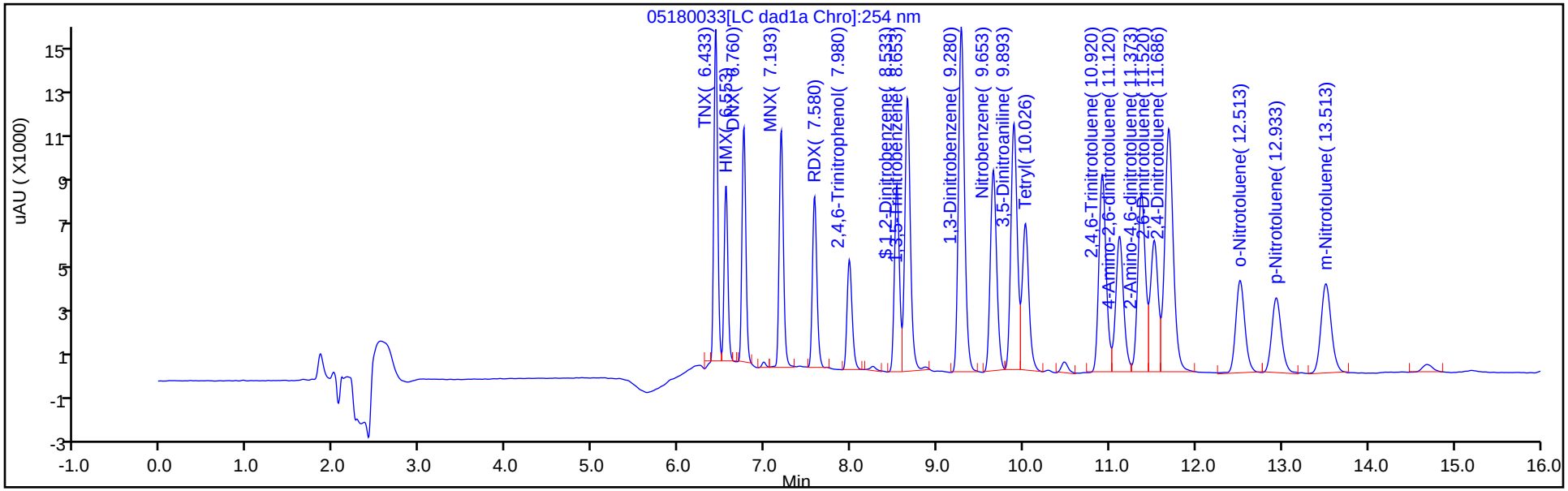
Report Date: 19-May-2023 12:22:05 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

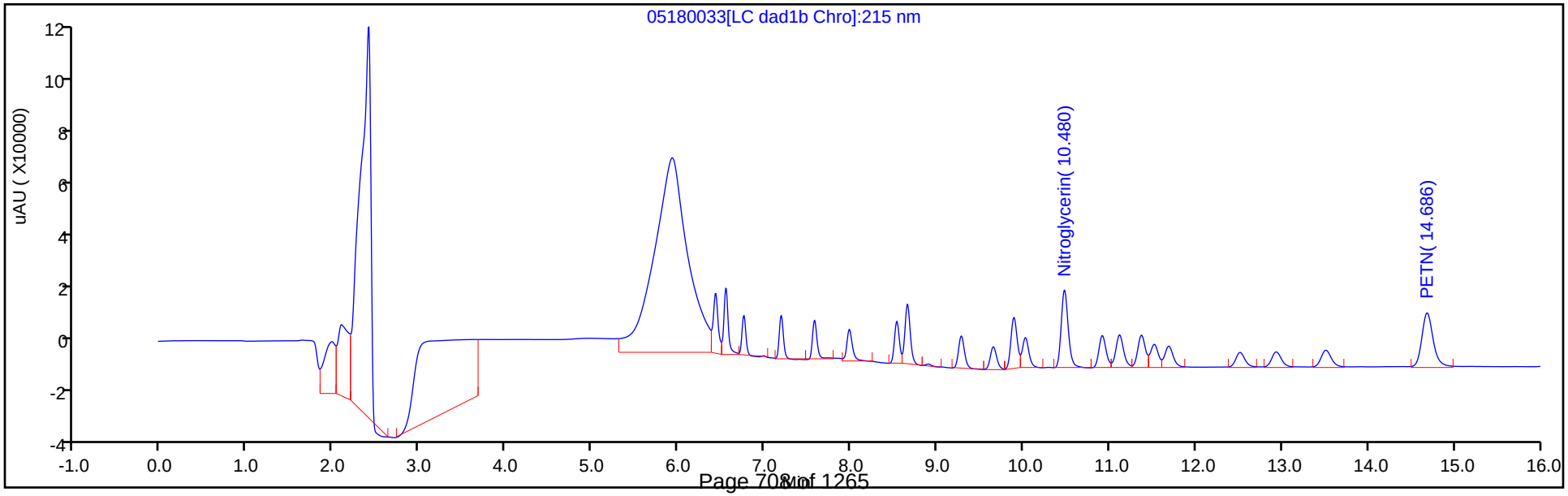
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180033.d

Injection Date:	19-May-2023 06:34:09	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	CCV DMT			Worklist Smp#:	33
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

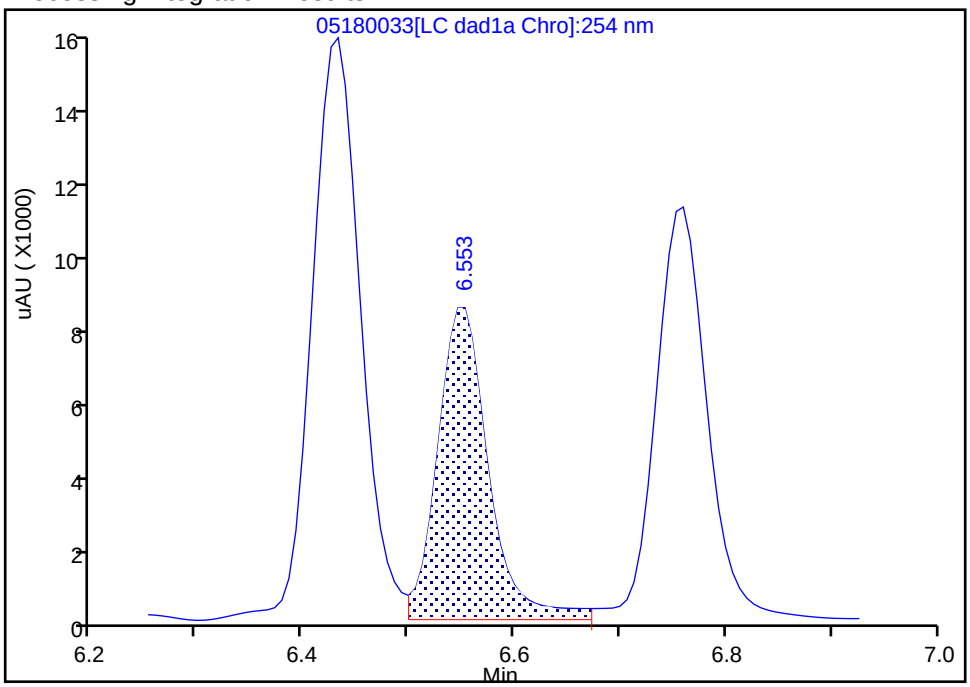
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180033.d
Injection Date: 19-May-2023 06:34:09 Instrument ID: CHHPLC_X3
Lims ID: CCV DMT
Client ID:
Operator ID: JZ/JG ALS Bottle#: 7 Worklist Smp#: 33
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

4 HMX, CAS: 2691-41-0

Signal: 1

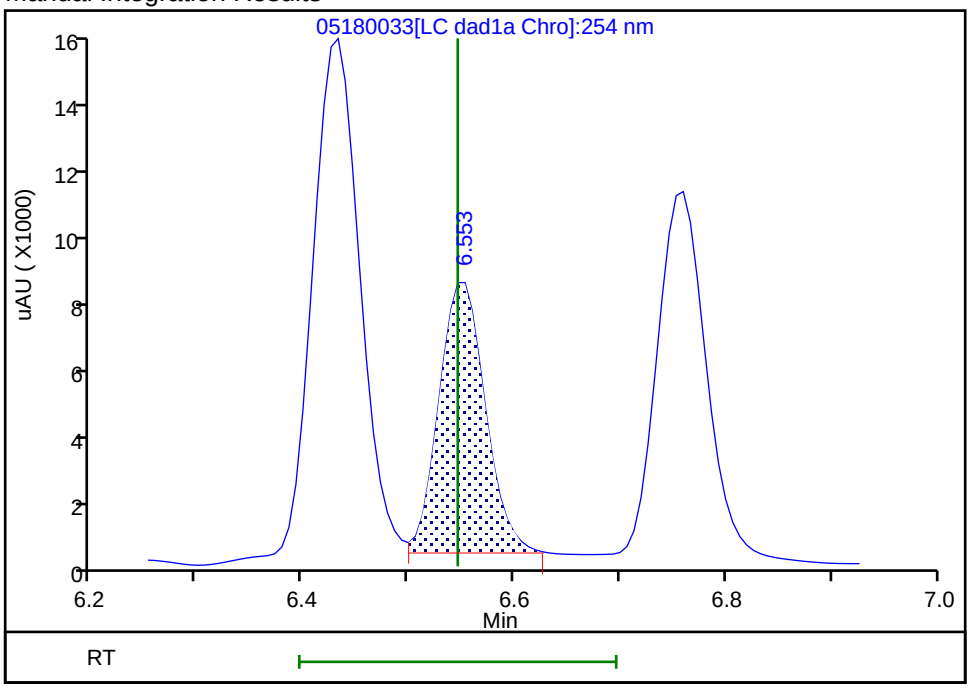
Processing Integration Results

RT: 6.55
Area: 26723
Amount: 0.285721
Amount Units: ug/mL



Manual Integration Results

RT: 6.55
Area: 23267
Amount: 0.248770
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 12:10:14 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/33 | Calibration Date: 05/19/2023 06:34

Instrument ID: CHHPLC_X3 | Calib Start Date: 02/24/2023 15:00

GC Column: UltraCarb5uODS ID: 4.60(mm) | Calib End Date: 02/24/2023 17:41

Lab File ID: 05180033.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	197687	177372		225	251	-10.3	20.0
DNX	Ave	144462	130605		226	250	-9.6	20.0
MNX	Ave	131172	122482		272	292	-6.6	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/33 Calibration Date: 05/19/2023 06:34

Instrument ID: CHHPLC_X3 Calib Start Date: 02/24/2023 15:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 02/24/2023 17:41

Lab File ID: 05180033.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.43	6.33	6.53
DNX	6.76	6.65	6.85
MNX	7.19	7.03	7.33

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180033.D
Lims ID: CCV DMT
Client ID:
Sample Type: CCV
Inject. Date: 19-May-2023 06:34:09 ALS Bottle#: 7 Worklist Smp#: 33
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV DMT
Operator ID: JZ/JG Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub27

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:22:05 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 12:10:23

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.433	6.426	0.007	44476	0.2508	0.2250	M
4 HMX	1	6.553	6.546	0.007	23267	0.2500	0.2488	M
6 DNX	1	6.760	6.753	0.007	32684	0.2503	0.2262	M
7 MNX	1	7.193	7.180	0.013	35734	0.2918	0.2724	
8 RDX	1	7.580	7.560	0.020	27526	0.2500	0.2588	
9 2,4,6-Trinitrophenol	1	7.980	7.960	0.020	19953	0.2500	0.2631	
$ 10 1,2-Dinitrobenzene	1	8.533	8.513	0.020	33451	0.2500	0.2648	
11 1,3,5-Trinitrobenzene	1	8.653	8.640	0.013	54768	0.2500	0.2522	
12 1,3-Dinitrobenzene	1	9.280	9.253	0.027	74729	0.2500	0.2538	
13 Nitrobenzene	1	9.653	9.626	0.027	46040	0.2500	0.2407	
14 3,5-Dinitroaniline	1	9.893	9.859	0.034	56516	0.2500	0.2473	
15 Tetryl	1	10.026	9.986	0.040	35036	0.2500	0.2135	
16 Nitroglycerin	2	10.480	10.439	0.041	162622	2.50	2.54	
17 2,4,6-Trinitrotoluene	1	10.920	10.873	0.047	51871	0.2500	0.2458	
18 4-Amino-2,6-dinitrotoluene	1	11.120	11.066	0.054	38364	0.2500	0.2476	
19 2-Amino-4,6-dinitrotoluene	1	11.373	11.319	0.054	49664	0.2500	0.2466	
20 2,6-Dinitrotoluene	1	11.520	11.473	0.047	35855	0.2500	0.2512	
21 2,4-Dinitrotoluene	1	11.686	11.639	0.047	75348	0.2500	0.2540	
22 o-Nitrotoluene	1	12.513	12.459	0.054	29880	0.2500	0.2336	
23 p-Nitrotoluene	1	12.933	12.873	0.060	25572	0.2500	0.2286	
24 m-Nitrotoluene	1	13.513	13.446	0.067	32812	0.2500	0.2336	
25 PETN	2	14.686	14.599	0.087	177130	2.50	2.57	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00013	Amount Added:	12.50	Units: uL
8330IntermStk_00075	Amount Added:	25.00	Units: uL

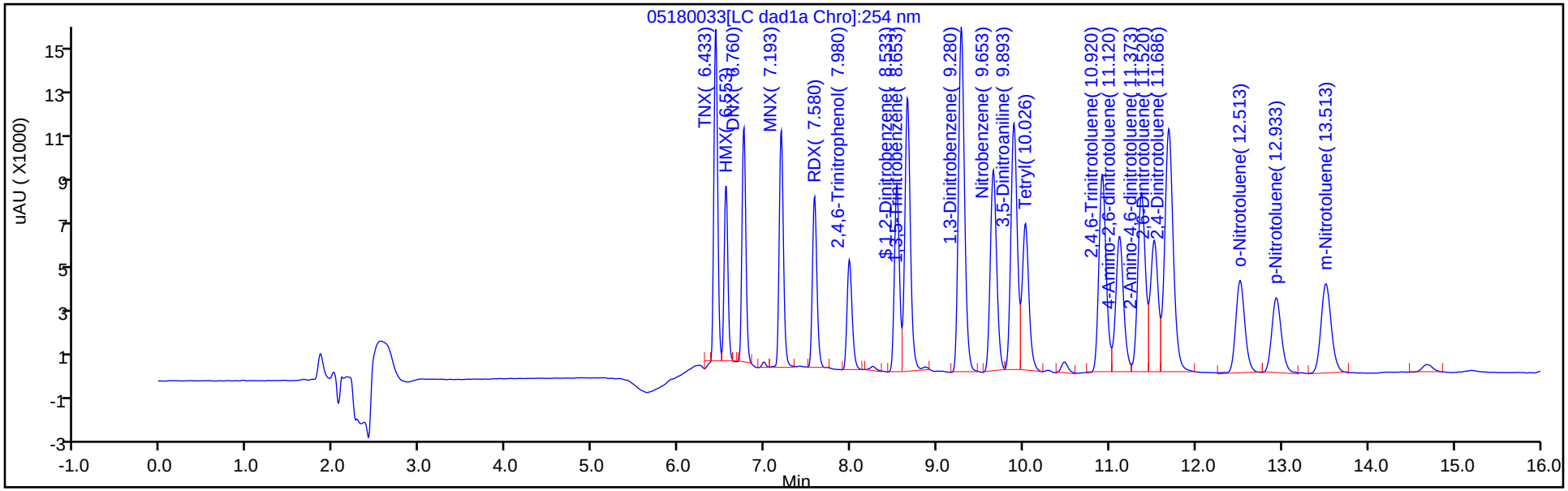
Report Date: 19-May-2023 12:22:05 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

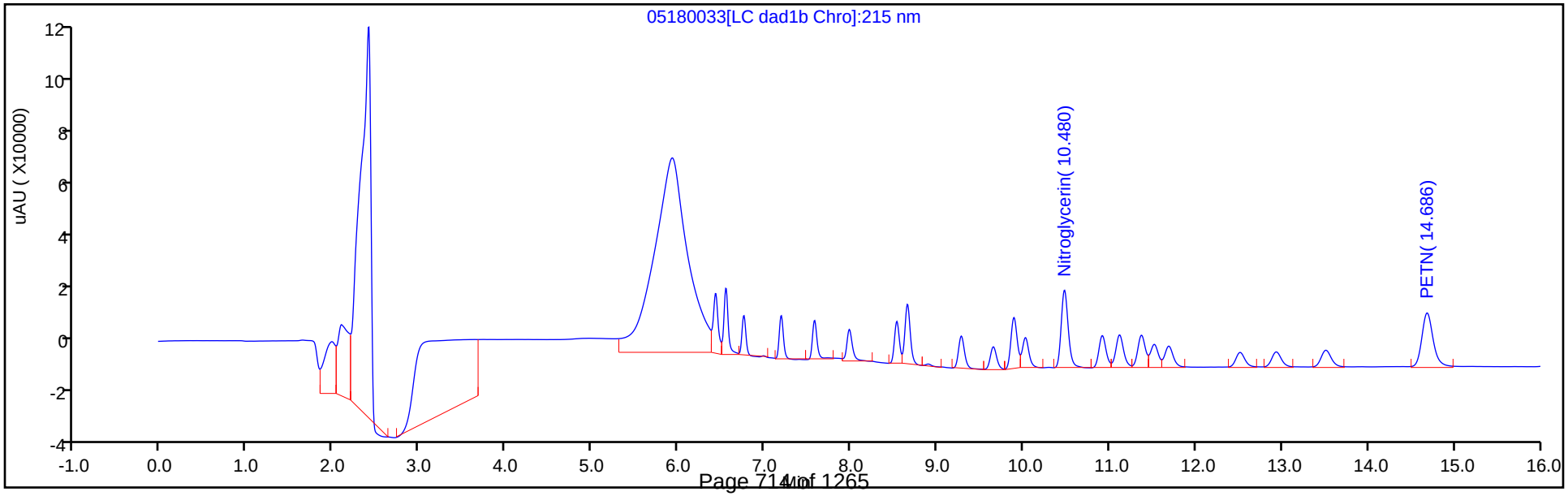
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180033.d

Injection Date:	19-May-2023 06:34:09	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	CCV DMT			Worklist Smp#:	33
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

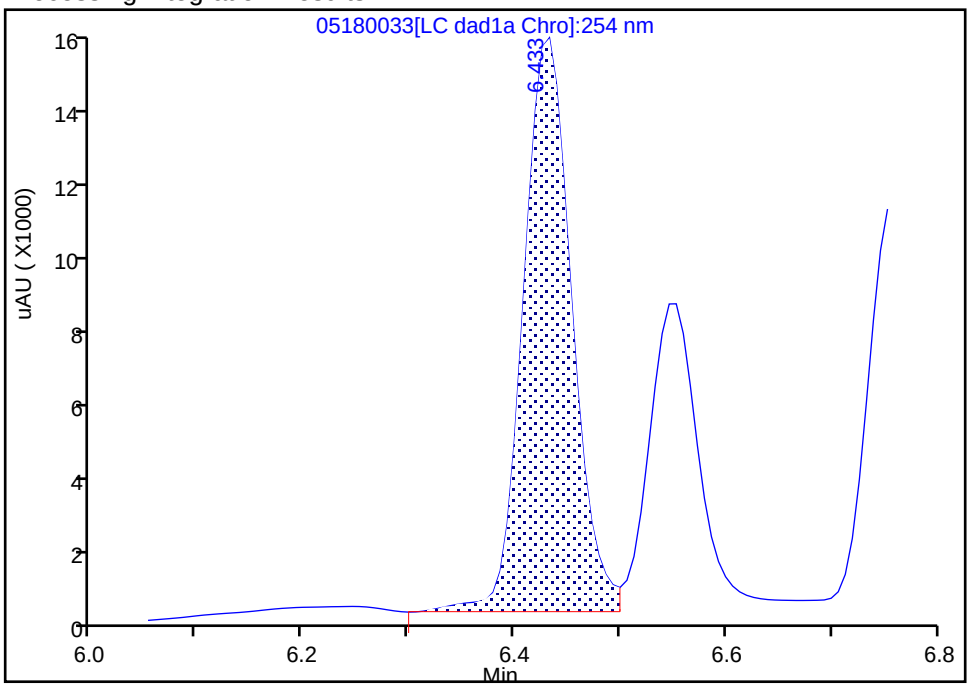
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180033.d				
Injection Date:	19-May-2023 06:34:09	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	33
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 TNX, CAS: 13980-04-6

Signal: 1

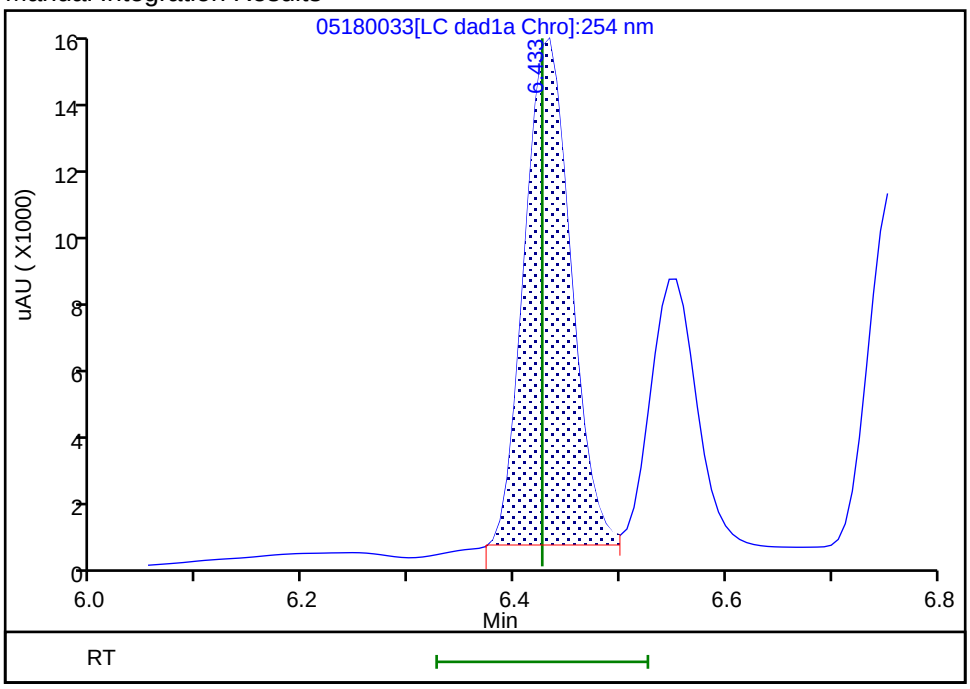
Processing Integration Results

RT: 6.43
Area: 47804
Amount: 0.241816
Amount Units: ug/mL



Manual Integration Results

RT: 6.43
Area: 44476
Amount: 0.224982
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 12:10:13 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

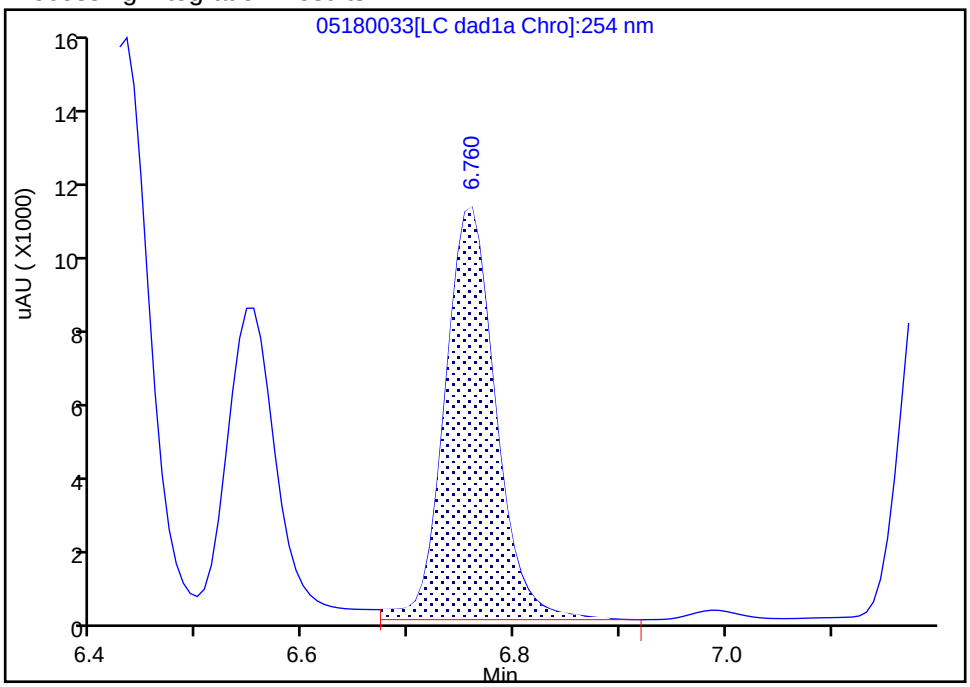
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180033.d				
Injection Date:	19-May-2023 06:34:09	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	33
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 DNX, CAS: 80251-29-2

Signal: 1

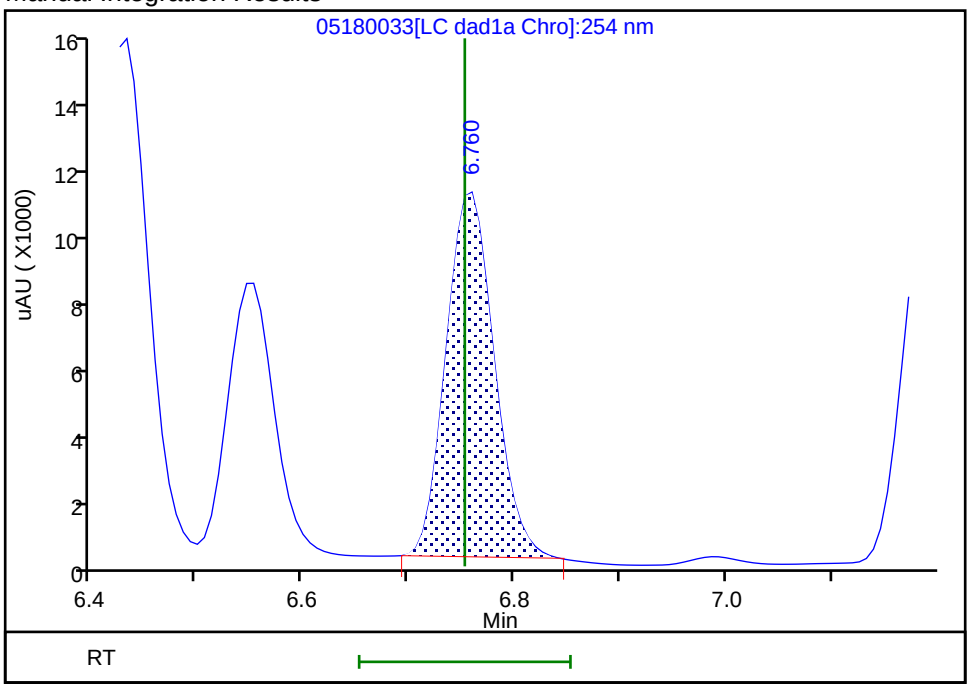
Processing Integration Results

RT: 6.76
Area: 35438
Amount: 0.245309
Amount Units: ug/mL



Manual Integration Results

RT: 6.76
Area: 32684
Amount: 0.226246
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 12:10:19 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/34 | Calibration Date: 05/19/2023 06:57

Instrument ID: CHHPLC_X3 | Calib Start Date: 01/17/2023 00:33

GC Column: UltraCarb5uODS ID: 4.60(mm) | Calib End Date: 01/17/2023 03:16

Lab File ID: 05180034.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,6-diamino-4-nitrotoluene	Lin2		211892		227	250	-9.3	20.0
2,4-diamino-6-nitrotoluene	Ave	146472	130308		222	250	-11.0	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/34 Calibration Date: 05/19/2023 06:57

Instrument ID: CHHPLC_X3 Calib Start Date: 01/17/2023 00:33

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 01/17/2023 03:16

Lab File ID: 05180034.D

Analyte	RT	RT WINDOW	
		FROM	TO
2,6-diamino-4-nitrotoluene	6.43	6.28	6.58
2,4-diamino-6-nitrotoluene	6.62	6.47	6.77

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180034.D
Lims ID: CCV ADD
Client ID:
Sample Type: CCV
Inject. Date: 19-May-2023 06:57:05 ALS Bottle#: 8 Worklist Smp#: 34
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV ADD
Operator ID: JZ/JG Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub28

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:22:06 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 12:10:31

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 2,6-diamino-4-nitrotoluene	1	6.431	6.431	0.000	52973	0.2500	0.2269	M
5 2,4-diamino-6-nitrotoluene	1	6.617	6.618	-0.001	32577	0.2500	0.2224	M

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330_ADDs_00037 Amount Added: 12.50 Units: uL

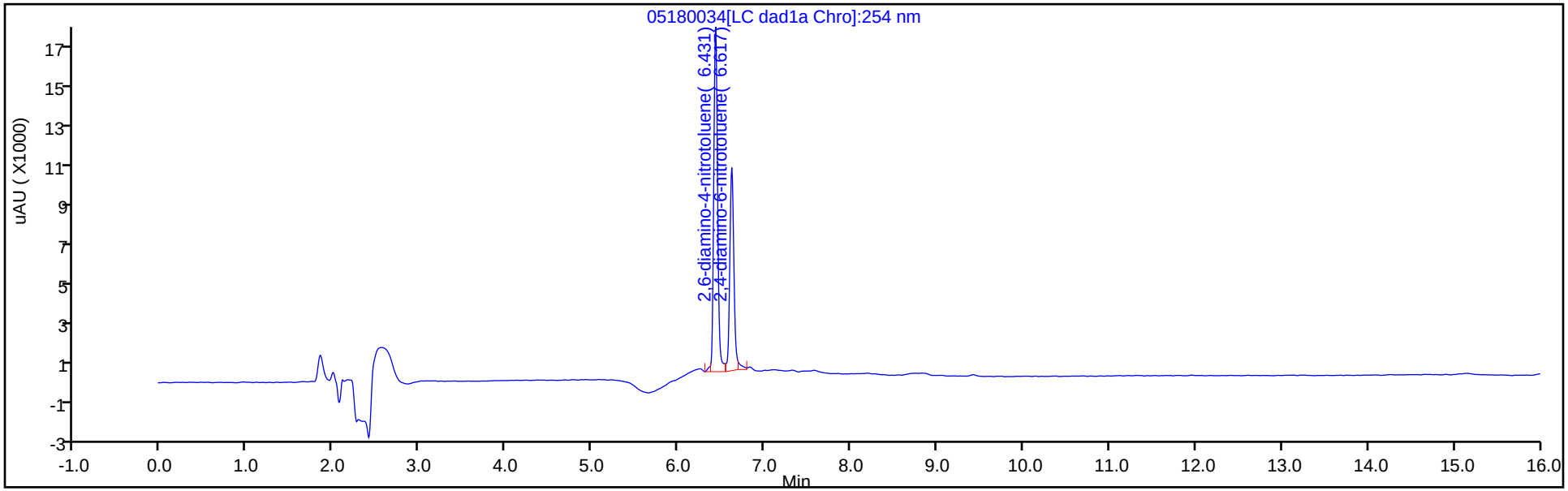
Report Date: 19-May-2023 12:22:06 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

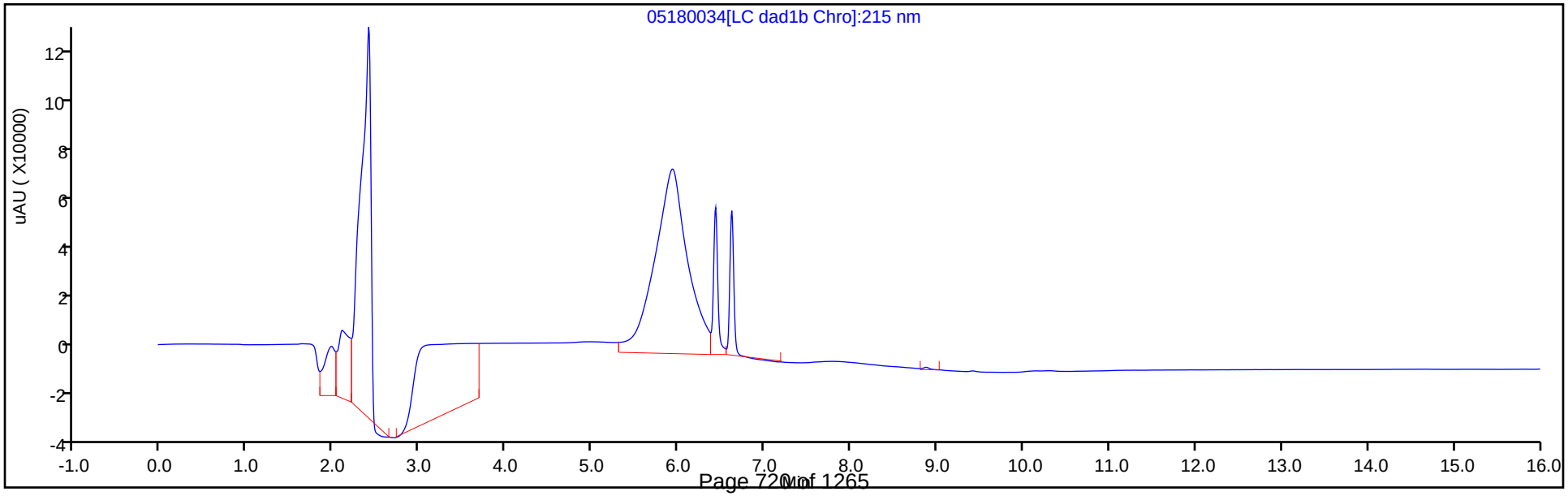
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180034.d

Injection Date:	19-May-2023 06:57:05	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	CCV ADD			Worklist Smp#:	34
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
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

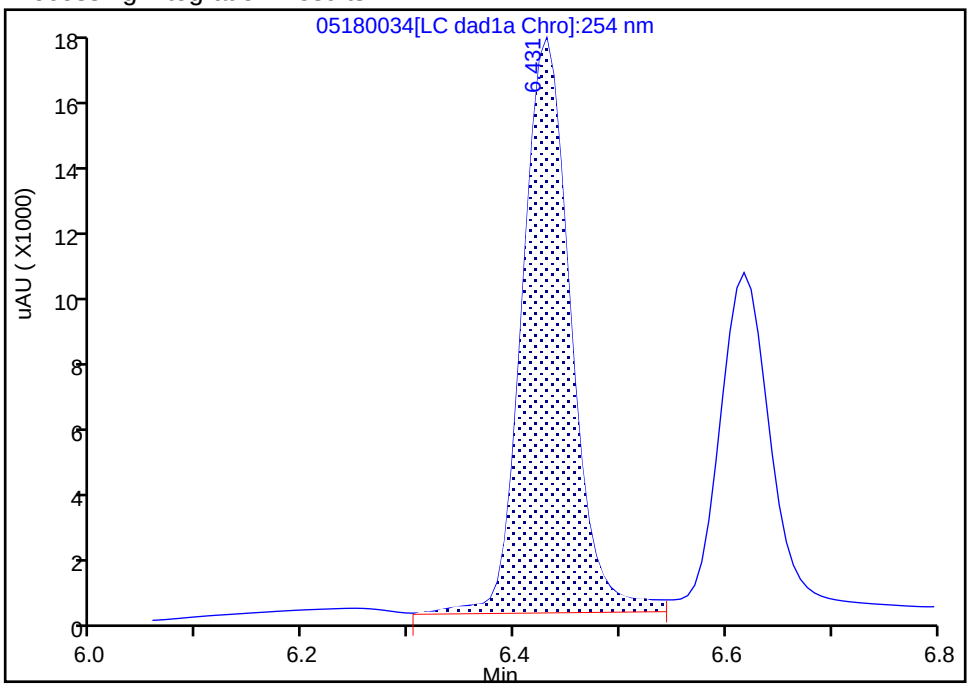
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180034.d				
Injection Date:	19-May-2023 06:57:05	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV ADD				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	8	Worklist Smp#:	34
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 2,6-diamino-4-nitrotoluene, CAS: 59229-75-3

Signal: 1

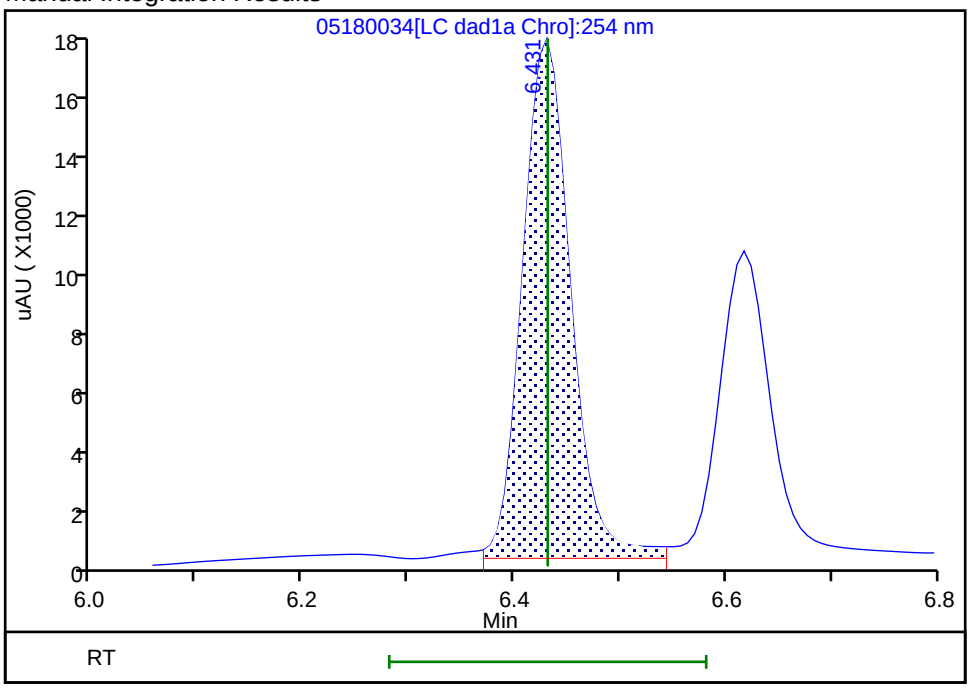
Processing Integration Results

RT: 6.43
Area: 53480
Amount: 0.229070
Amount Units: ug/mL



Manual Integration Results

RT: 6.43
Area: 52973
Amount: 0.226863
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 12:10:29 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

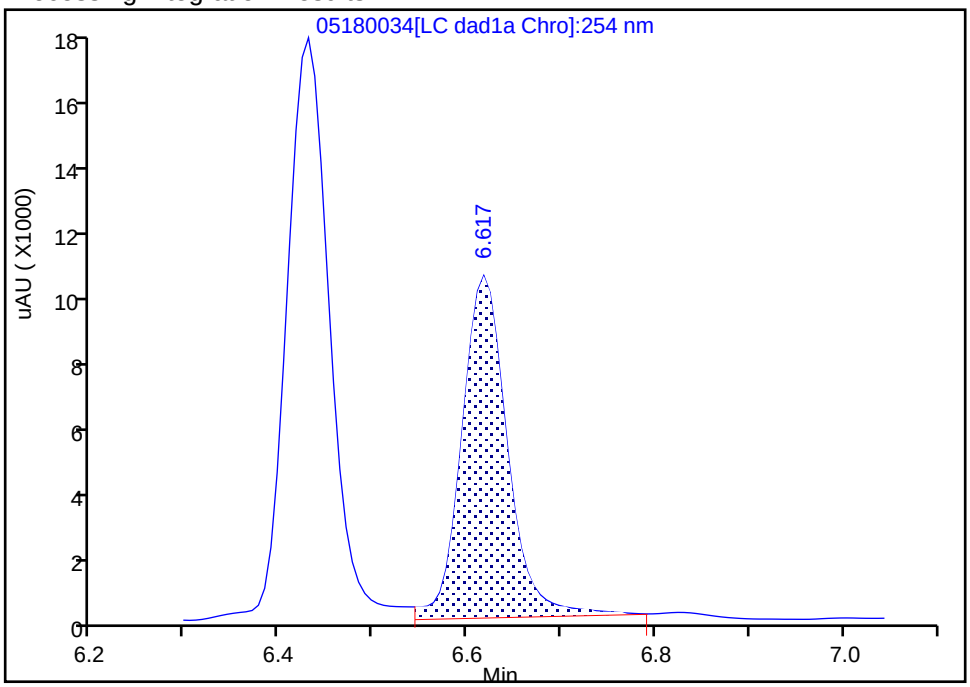
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180034.d				
Injection Date:	19-May-2023 06:57:05	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV ADD				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	8	Worklist Smp#:	34
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 2,4-diamino-6-nitrotoluene, CAS: 6629-29-4

Signal: 1

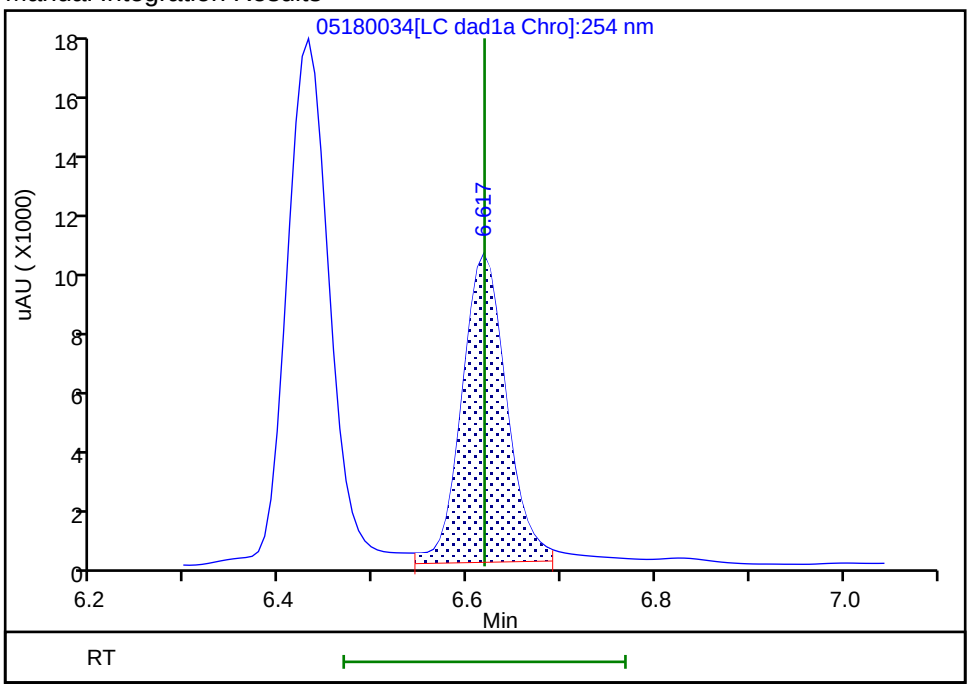
Processing Integration Results

RT: 6.62
Area: 33582
Amount: 0.229272
Amount Units: ug/mL



Manual Integration Results

RT: 6.62
Area: 32577
Amount: 0.222411
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 12:10:30 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/41 Calibration Date: 05/19/2023 09:37

Instrument ID: CHHPLC_X3 Calib Start Date: 02/08/2023 15:38

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 02/08/2023 18:42

Lab File ID: 05180041.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	93528	91156		244	250	-2.5	20.0
RDX	Ave	106380	110052		259	250	3.5	20.0
Picric acid	Ave	75830	80580		266	250	6.3	20.0
1,3,5-Trinitrobenzene	Ave	217147	218648		252	250	0.7	20.0
1,3-Dinitrobenzene	Ave	294397	298484		253	250	1.4	20.0
Nitrobenzene	Ave	191245	184896		242	250	-3.3	20.0
3,5-Dinitroaniline	Lin2		226312		248	250	-1.0	20.0
Tetryl	Ave	164121	144832		221	250	-11.8	20.0
Nitroglycerin	Ave	64070	65008		2540	2500	1.5	20.0
2,4,6-Trinitrotoluene	Ave	211040	206120		244	250	-2.3	20.0
4-Amino-2,6-dinitrotoluene	Ave	154933	152740		246	250	-1.4	20.0
2-Amino-4,6-dinitrotoluene	Ave	201410	197552		245	250	-1.9	20.0
2,6-Dinitrotoluene	Ave	142745	142432		249	250	-0.2	20.0
2,4-Dinitrotoluene	Ave	296667	298396		251	250	0.6	20.0
2-Nitrotoluene	Ave	127896	120736		236	250	-5.6	20.0
4-Nitrotoluene	Ave	111880	104376		233	250	-6.7	20.0
3-Nitrotoluene	Ave	140492	131652		234	250	-6.3	20.0
PETN	Ave	68845	70936		2580	2500	3.0	20.0
1,2-Dinitrobenzene	Ave	126309	131592		260	250	4.2	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/41 Calibration Date: 05/19/2023 09:37

Instrument ID: CHHPLC_X3 Calib Start Date: 02/08/2023 15:38

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 02/08/2023 18:42

Lab File ID: 05180041.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.55	6.40	6.70
RDX	7.57	7.41	7.71
Picric acid	7.98	7.81	8.11
1,3,5-Trinitrobenzene	8.65	8.49	8.79
1,3-Dinitrobenzene	9.27	9.10	9.40
Nitrobenzene	9.64	9.48	9.78
3,5-Dinitroaniline	9.87	9.71	10.01
Tetryl	10.01	9.84	10.14
Nitroglycerin	10.46	10.29	10.59
2,4,6-Trinitrotoluene	10.89	10.77	10.97
4-Amino-2,6-dinitrotoluene	11.09	10.97	11.17
2-Amino-4,6-dinitrotoluene	11.35	11.22	11.42
2,6-Dinitrotoluene	11.49	11.37	11.57
2,4-Dinitrotoluene	11.66	11.54	11.74
2-Nitrotoluene	12.48	12.31	12.61
4-Nitrotoluene	12.90	12.72	13.02
3-Nitrotoluene	13.47	13.30	13.60
PETN	14.63	14.45	14.75
1,2-Dinitrobenzene	8.52	8.36	8.66

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180041.D
Lims ID: CCV DMT
Client ID:
Sample Type: CCV
Inject. Date: 19-May-2023 09:37:42 ALS Bottle#: 7 Worklist Smp#: 41
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV DMT
Operator ID: JZ/JG Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub27

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:22:11 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 12:21:31

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.428	6.426	0.002	43604	0.2508	0.2206	M
4 HMX	1	6.548	6.546	0.002	22789	0.2500	0.2437	M
6 DNX	1	6.755	6.753	0.002	32558	0.2503	0.2254	M
7 MNX	1	7.188	7.180	0.008	35467	0.2918	0.2704	
8 RDX	1	7.568	7.560	0.008	27513	0.2500	0.2586	
9 2,4,6-Trinitrophenol	1	7.975	7.960	0.015	20145	0.2500	0.2657	
$ 10 1,2-Dinitrobenzene	1	8.521	8.513	0.008	32898	0.2500	0.2605	
11 1,3,5-Trinitrobenzene	1	8.648	8.640	0.008	54662	0.2500	0.2517	
12 1,3-Dinitrobenzene	1	9.268	9.253	0.015	74621	0.2500	0.2535	
13 Nitrobenzene	1	9.641	9.626	0.015	46224	0.2500	0.2417	
14 3,5-Dinitroaniline	1	9.874	9.859	0.015	56578	0.2500	0.2475	
15 Tetryl	1	10.008	9.986	0.022	36208	0.2500	0.2206	
16 Nitroglycerin	2	10.461	10.439	0.022	162520	2.50	2.54	
17 2,4,6-Trinitrotoluene	1	10.894	10.873	0.021	51530	0.2500	0.2442	
18 4-Amino-2,6-dinitrotoluene	1	11.094	11.066	0.028	38185	0.2500	0.2465	
19 2-Amino-4,6-dinitrotoluene	1	11.348	11.319	0.029	49388	0.2500	0.2452	
20 2,6-Dinitrotoluene	1	11.494	11.473	0.021	35608	0.2500	0.2495	
21 2,4-Dinitrotoluene	1	11.661	11.639	0.022	74599	0.2500	0.2515	
22 o-Nitrotoluene	1	12.481	12.459	0.022	30184	0.2500	0.2360	
23 p-Nitrotoluene	1	12.901	12.873	0.028	26094	0.2500	0.2332	
24 m-Nitrotoluene	1	13.468	13.446	0.022	32913	0.2500	0.2343	
25 PETN	2	14.628	14.599	0.029	177341	2.50	2.58	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00013	Amount Added:	12.50	Units: uL
8330IntermStk_00075	Amount Added:	25.00	Units: uL

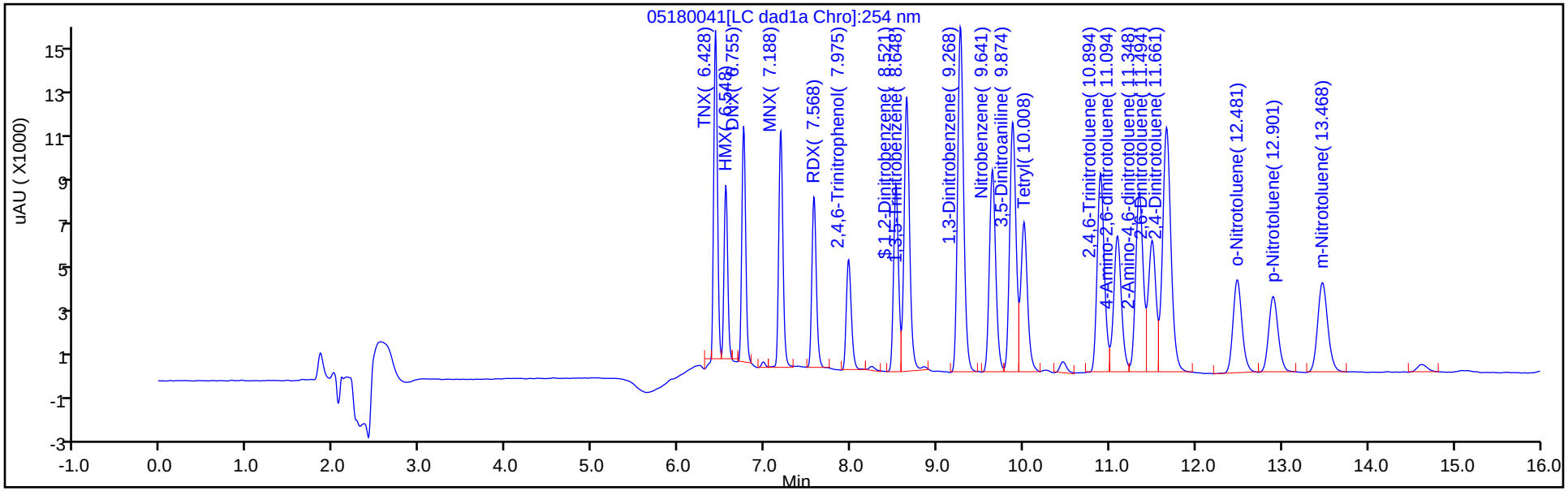
Report Date: 19-May-2023 12:22:11 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

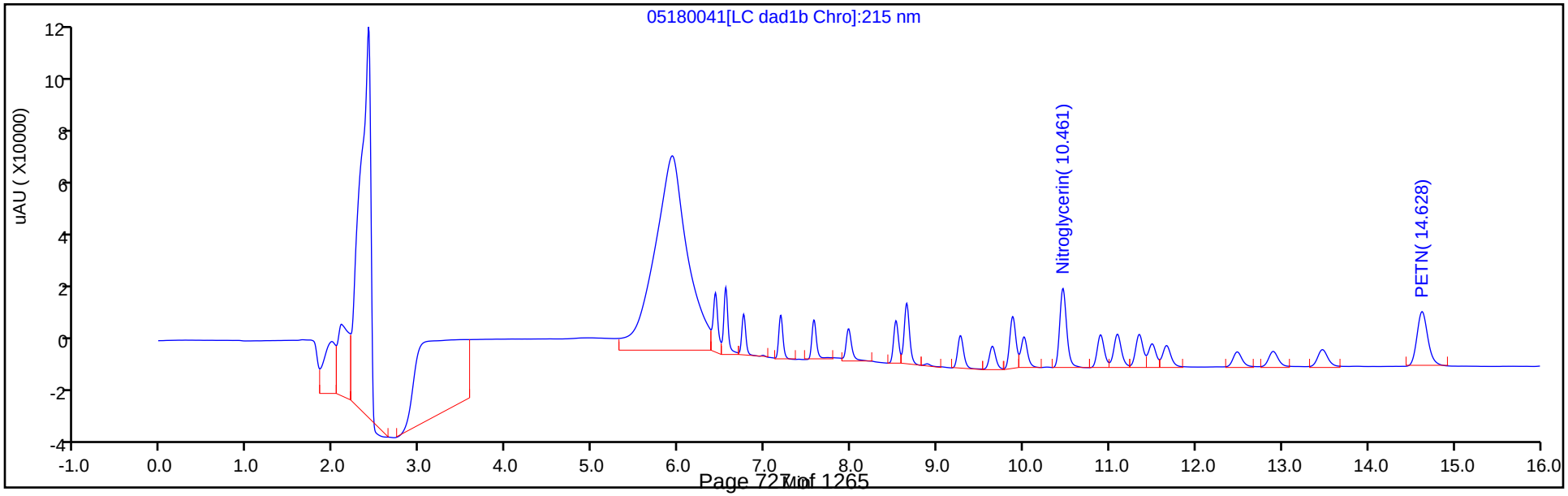
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180041.d

Injection Date:	19-May-2023 09:37:42	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	CCV DMT			Worklist Smp#:	41
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

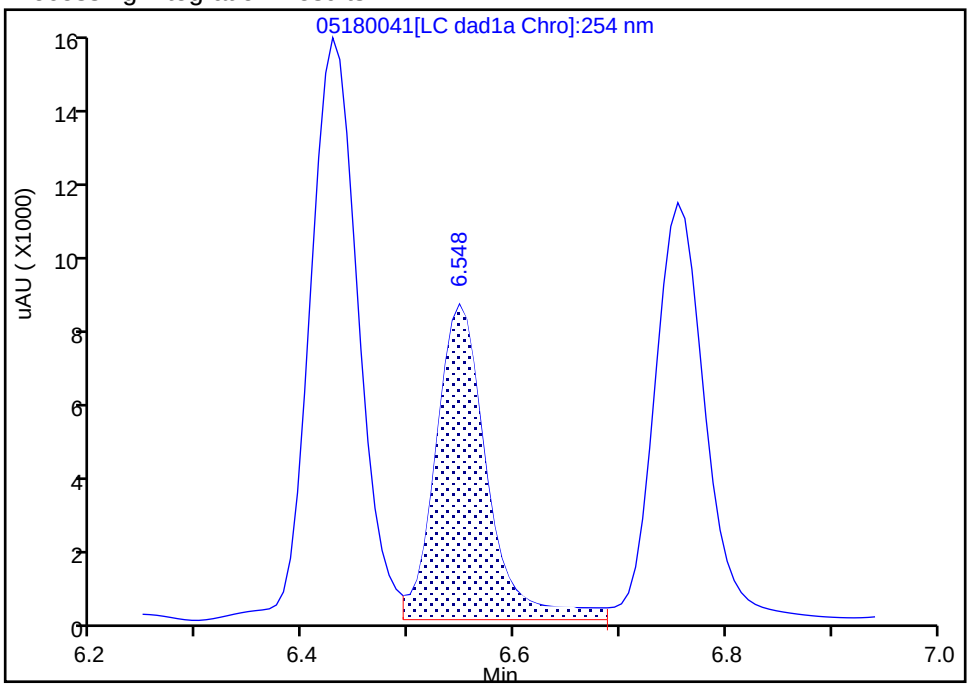
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180041.d				
Injection Date:	19-May-2023 09:37:42	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	41
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

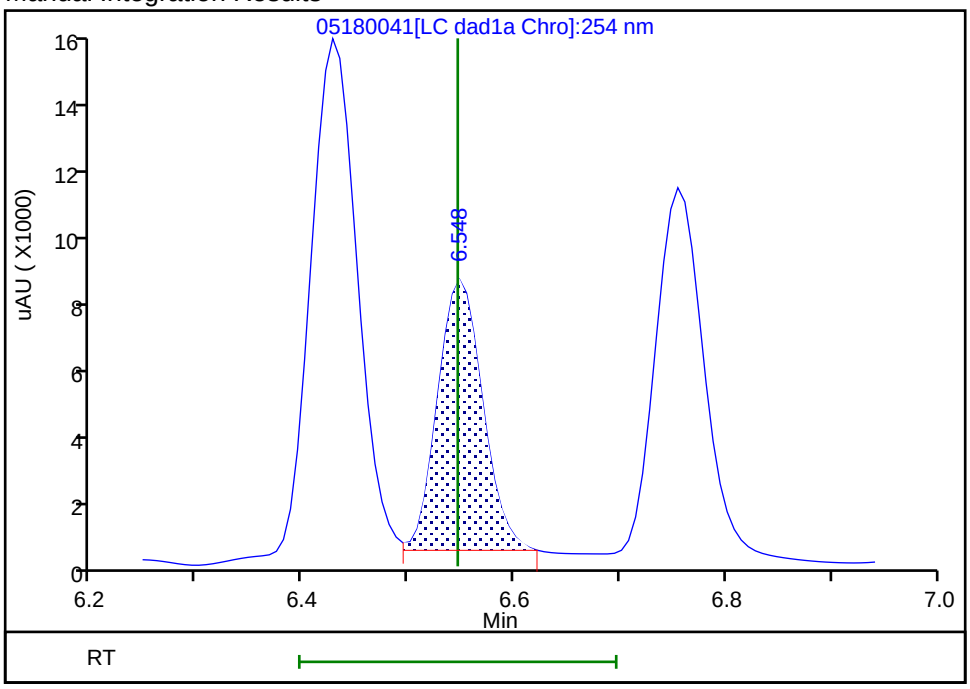
Processing Integration Results

RT: 6.55
Area: 27128
Amount: 0.290052
Amount Units: ug/mL



Manual Integration Results

RT: 6.55
Area: 22789
Amount: 0.243659
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 12:21:25 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/41 Calibration Date: 05/19/2023 09:37

Instrument ID: CHHPLC_X3 Calib Start Date: 02/24/2023 15:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 02/24/2023 17:41

Lab File ID: 05180041.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	197687	173894		221	251	-12.0	20.0
DNX	Ave	144462	130102		225	250	-9.9	20.0
MNX	Ave	131172	121566		270	292	-7.3	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/41 Calibration Date: 05/19/2023 09:37

Instrument ID: CHHPLC_X3 Calib Start Date: 02/24/2023 15:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 02/24/2023 17:41

Lab File ID: 05180041.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.43	6.33	6.53
DNX	6.76	6.65	6.85
MNX	7.19	7.03	7.33

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180041.D
Lims ID: CCV DMT
Client ID:
Sample Type: CCV
Inject. Date: 19-May-2023 09:37:42 ALS Bottle#: 7 Worklist Smp#: 41
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV DMT
Operator ID: JZ/JG Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub27

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:22:11 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 12:21:31

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.428	6.426	0.002	43604	0.2508	0.2206	M
4 HMX	1	6.548	6.546	0.002	22789	0.2500	0.2437	M
6 DNX	1	6.755	6.753	0.002	32558	0.2503	0.2254	M
7 MNX	1	7.188	7.180	0.008	35467	0.2918	0.2704	
8 RDX	1	7.568	7.560	0.008	27513	0.2500	0.2586	
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$ 10 1,2-Dinitrobenzene	1	8.521	8.513	0.008	32898	0.2500	0.2605	
11 1,3,5-Trinitrobenzene	1	8.648	8.640	0.008	54662	0.2500	0.2517	
12 1,3-Dinitrobenzene	1	9.268	9.253	0.015	74621	0.2500	0.2535	
13 Nitrobenzene	1	9.641	9.626	0.015	46224	0.2500	0.2417	
14 3,5-Dinitroaniline	1	9.874	9.859	0.015	56578	0.2500	0.2475	
15 Tetryl	1	10.008	9.986	0.022	36208	0.2500	0.2206	
16 Nitroglycerin	2	10.461	10.439	0.022	162520	2.50	2.54	
17 2,4,6-Trinitrotoluene	1	10.894	10.873	0.021	51530	0.2500	0.2442	
18 4-Amino-2,6-dinitrotoluene	1	11.094	11.066	0.028	38185	0.2500	0.2465	
19 2-Amino-4,6-dinitrotoluene	1	11.348	11.319	0.029	49388	0.2500	0.2452	
20 2,6-Dinitrotoluene	1	11.494	11.473	0.021	35608	0.2500	0.2495	
21 2,4-Dinitrotoluene	1	11.661	11.639	0.022	74599	0.2500	0.2515	
22 o-Nitrotoluene	1	12.481	12.459	0.022	30184	0.2500	0.2360	
23 p-Nitrotoluene	1	12.901	12.873	0.028	26094	0.2500	0.2332	
24 m-Nitrotoluene	1	13.468	13.446	0.022	32913	0.2500	0.2343	
25 PETN	2	14.628	14.599	0.029	177341	2.50	2.58	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00013	Amount Added:	12.50	Units: uL
8330IntermStk_00075	Amount Added:	25.00	Units: uL

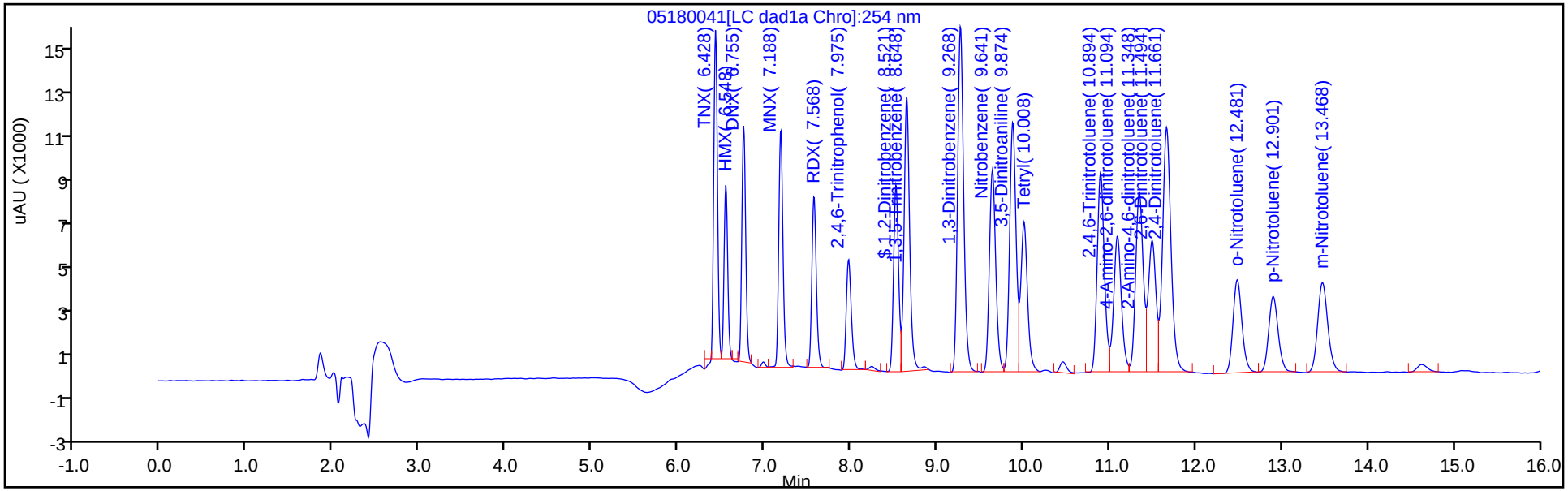
Report Date: 19-May-2023 12:22:11 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

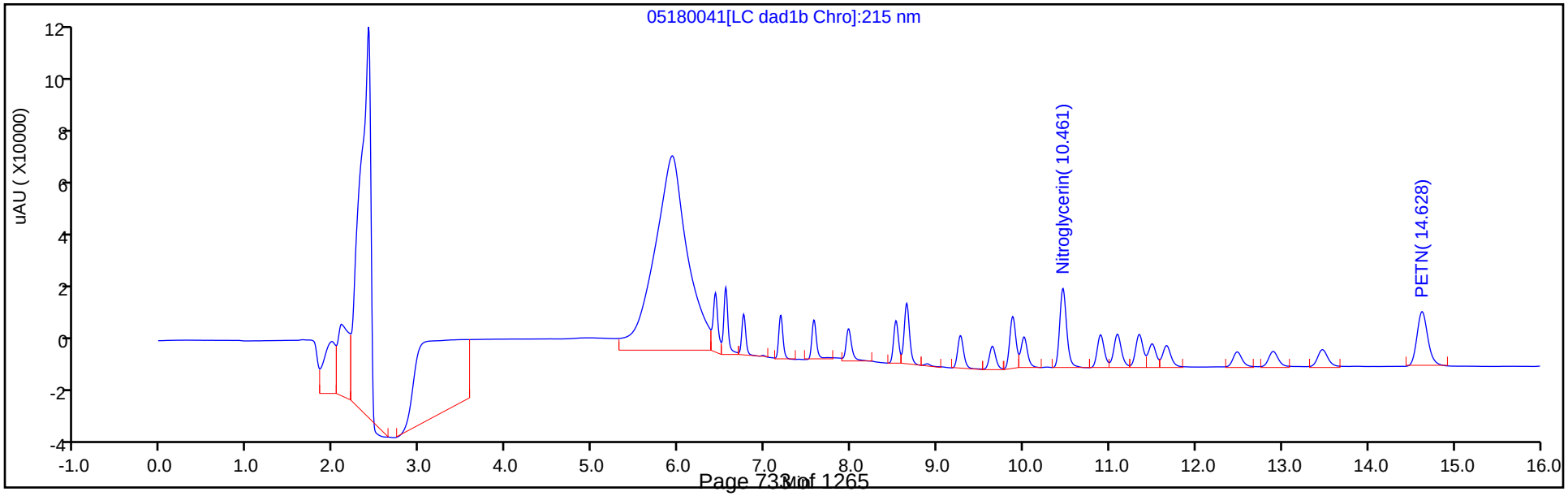
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180041.d

Injection Date:	19-May-2023 09:37:42	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	CCV DMT			Worklist Smp#:	41
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

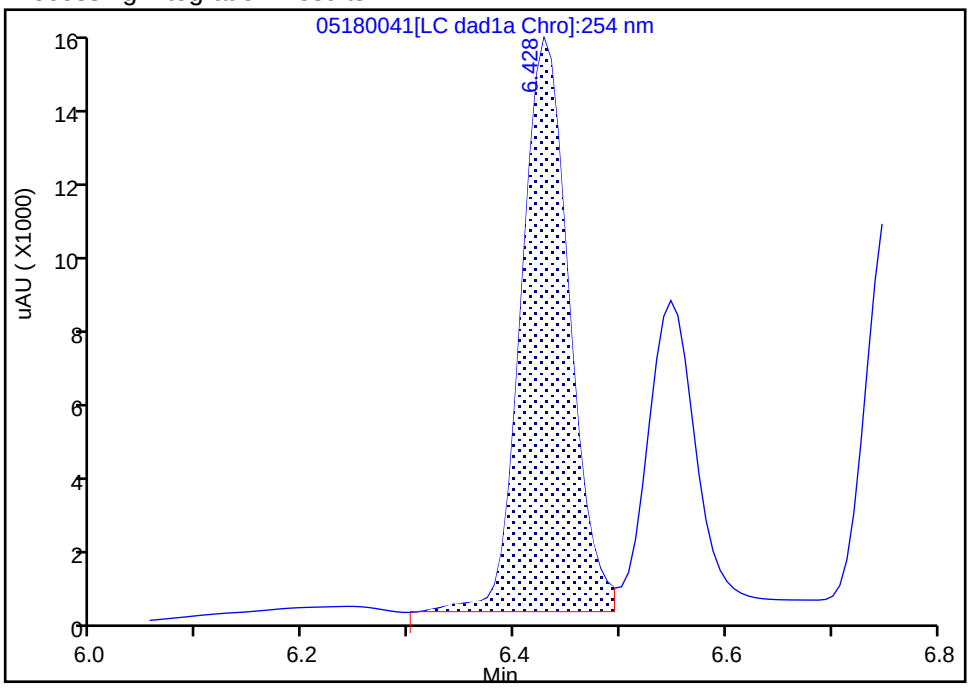
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180041.d				
Injection Date:	19-May-2023 09:37:42	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	41
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 TNX, CAS: 13980-04-6

Signal: 1

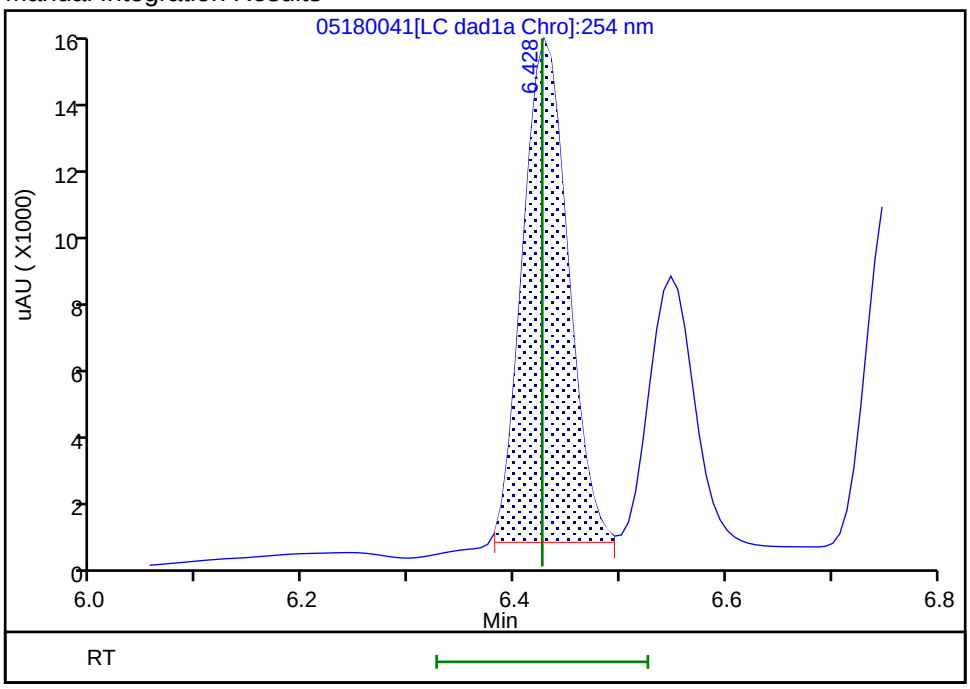
Processing Integration Results

RT: 6.43
Area: 47401
Amount: 0.239778
Amount Units: ug/mL



Manual Integration Results

RT: 6.43
Area: 43604
Amount: 0.220571
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 12:21:24 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins Denver

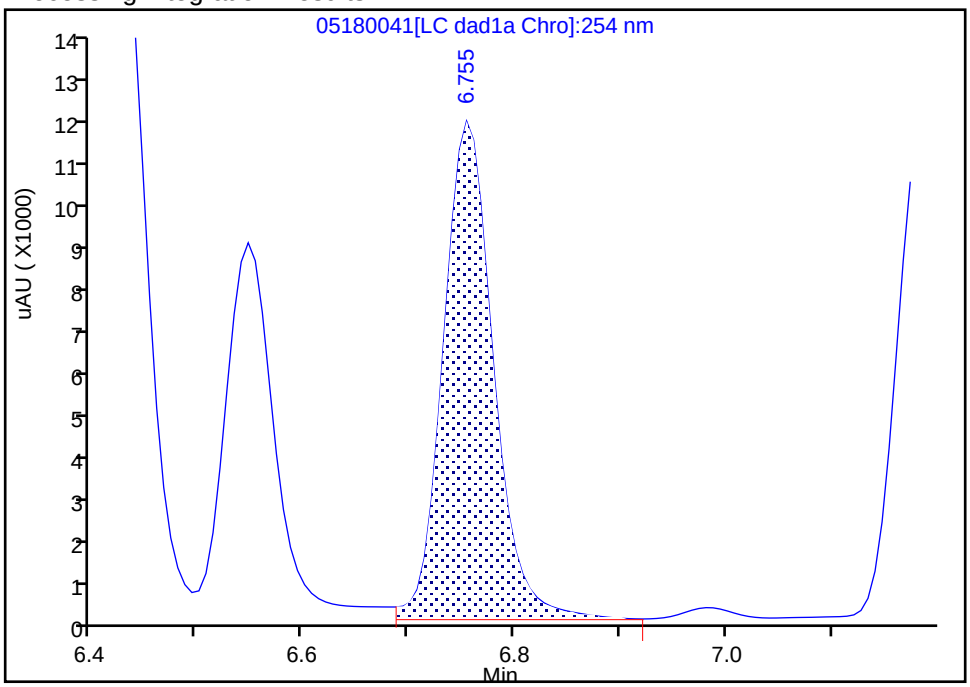
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180041.d
Injection Date: 19-May-2023 09:37:42 Instrument ID: CHHPLC_X3
Lims ID: CCV DMT
Client ID:
Operator ID: JZ/JG ALS Bottle#: 7 Worklist Smp#: 41
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

6 DNX, CAS: 80251-29-2

Signal: 1

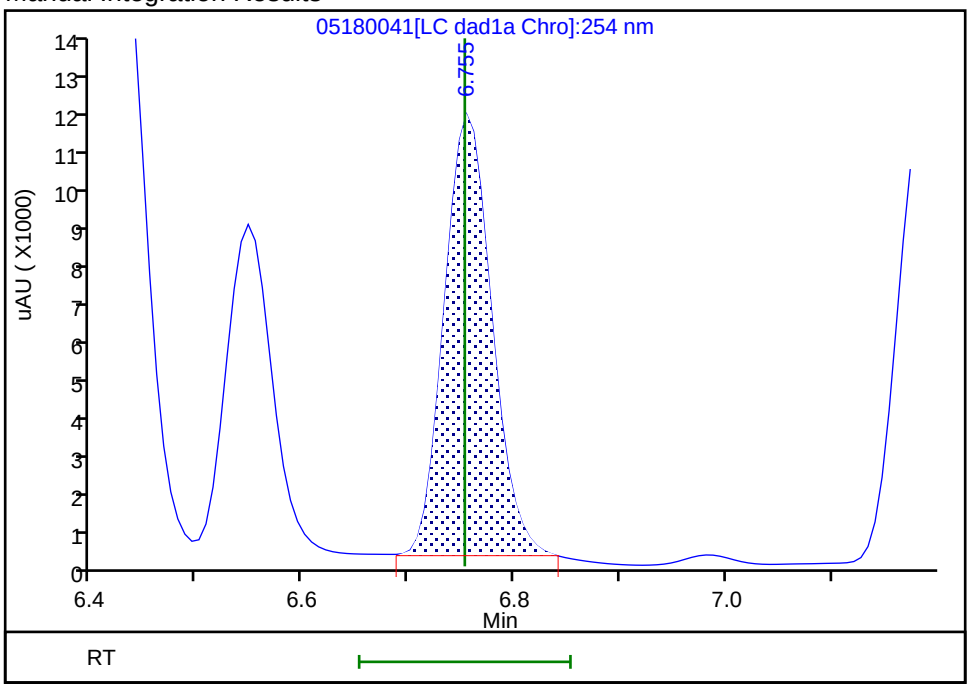
Processing Integration Results

RT: 6.75
Area: 35344
Amount: 0.244659
Amount Units: ug/mL



Manual Integration Results

RT: 6.75
Area: 32558
Amount: 0.225373
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 12:21:29 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/42 Calibration Date: 05/19/2023 10:00

Instrument ID: CHHPLC_X3 Calib Start Date: 01/17/2023 00:33

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 01/17/2023 03:16

Lab File ID: 05180042.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,6-diamino-4-nitrotoluene	Lin2		213984		229	250	-8.3	20.0
2,4-diamino-6-nitrotoluene	Ave	146472	130520		223	250	-10.9	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613045/42 Calibration Date: 05/19/2023 10:00

Instrument ID: CHHPLC_X3 Calib Start Date: 01/17/2023 00:33

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 01/17/2023 03:16

Lab File ID: 05180042.D

Analyte	RT	RT WINDOW	
		FROM	TO
2,6-diamino-4-nitrotoluene	6.43	6.28	6.58
2,4-diamino-6-nitrotoluene	6.61	6.47	6.77

Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180042.D				
Lims ID:	CCV ADD				
Client ID:					
Sample Type:	CCV				
Inject. Date:	19-May-2023 10:00:40	ALS Bottle#:	8	Worklist Smp#:	42
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV ADD				
Operator ID:	JZ/JG	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub28				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	19-May-2023 12:22:12	Calib Date:	24-Feb-2023 17:41:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1654				
First Level Reviewer: LV5D		Date:	19-May-2023 12:21:45		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 2,6-diamino-4-nitrotoluene	1	6.426	6.431	-0.005	53496	0.2500	0.2291	M
5 2,4-diamino-6-nitrotoluene	1	6.613	6.618	-0.005	32630	0.2500	0.2228	M

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330_ADDs_00037 Amount Added: 12.50 Units: uL

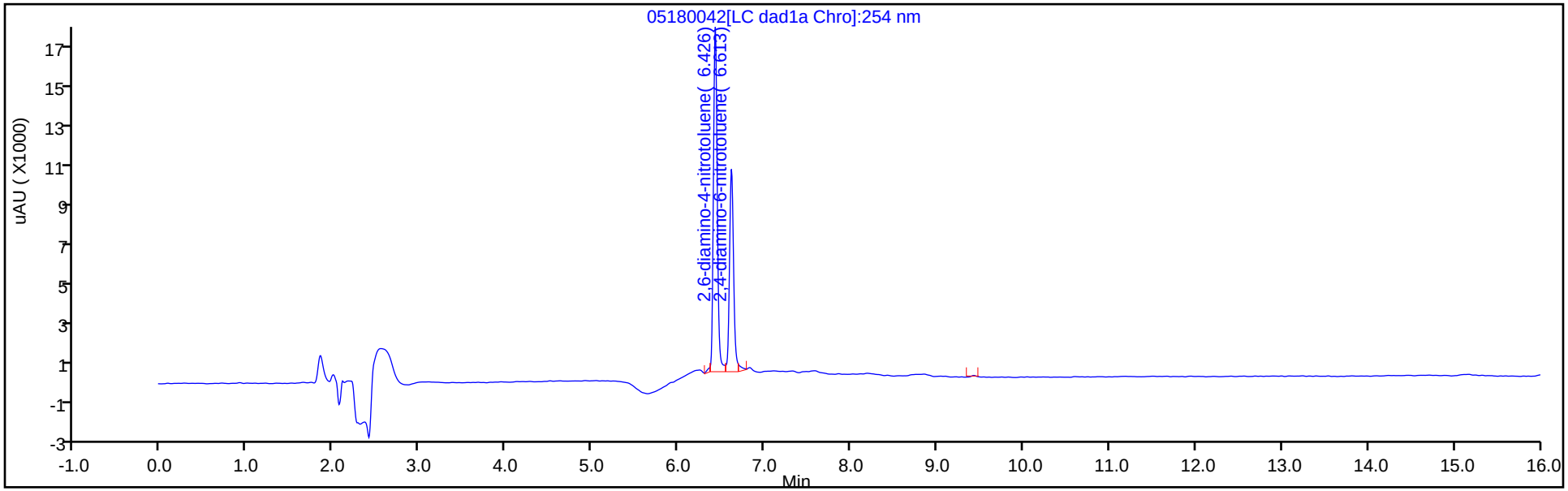
Report Date: 19-May-2023 12:22:12 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

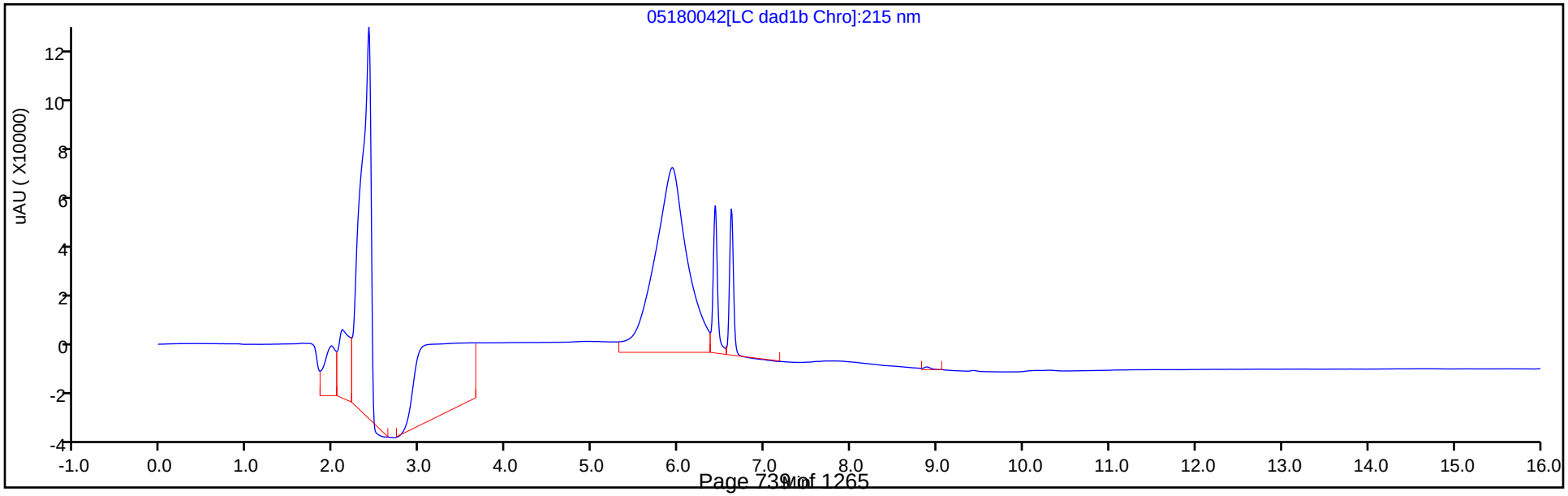
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180042.d

Injection Date:	19-May-2023 10:00:40	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	CCV ADD			Worklist Smp#:	42
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
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

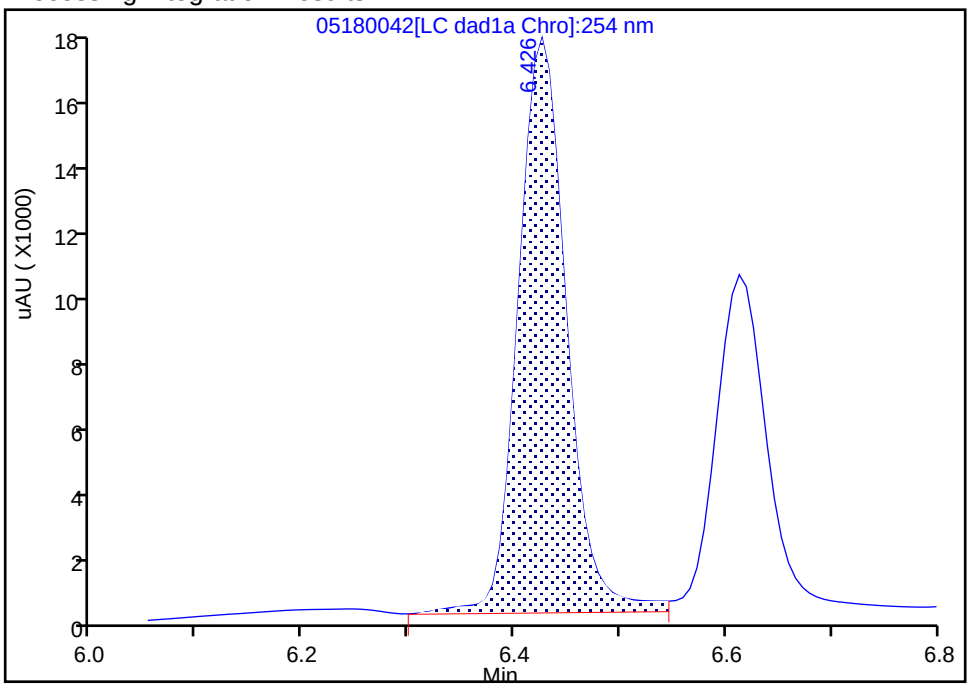
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180042.d
Injection Date: 19-May-2023 10:00:40 Instrument ID: CHHPLC_X3
Lims ID: CCV ADD
Client ID:
Operator ID: JZ/JG ALS Bottle#: 8 Worklist Smp#: 42
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 2,6-diamino-4-nitrotoluene, CAS: 59229-75-3

Signal: 1

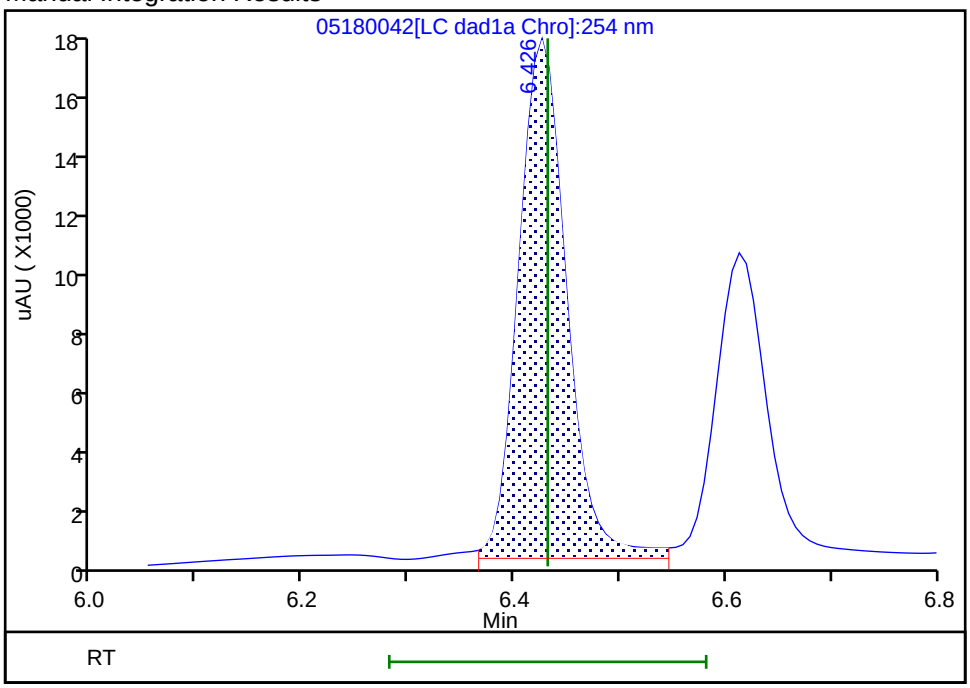
Processing Integration Results

RT: 6.43
Area: 54033
Amount: 0.231478
Amount Units: ug/mL



Manual Integration Results

RT: 6.43
Area: 53496
Amount: 0.229140
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 12:21:41 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

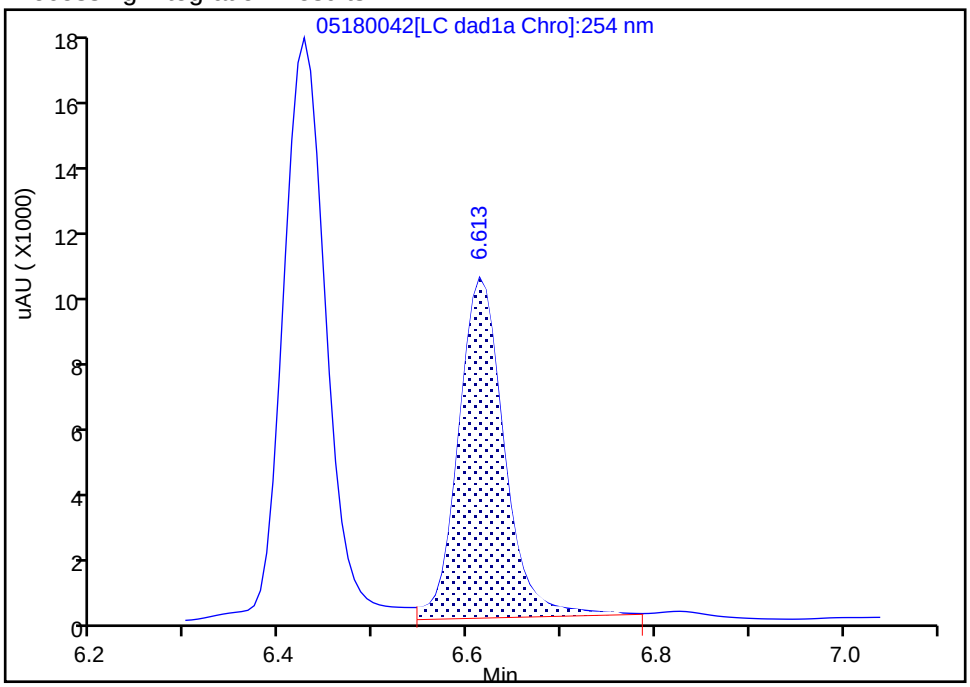
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180042.d				
Injection Date:	19-May-2023 10:00:40	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV ADD				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	8	Worklist Smp#:	42
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 2,4-diamino-6-nitrotoluene, CAS: 6629-29-4

Signal: 1

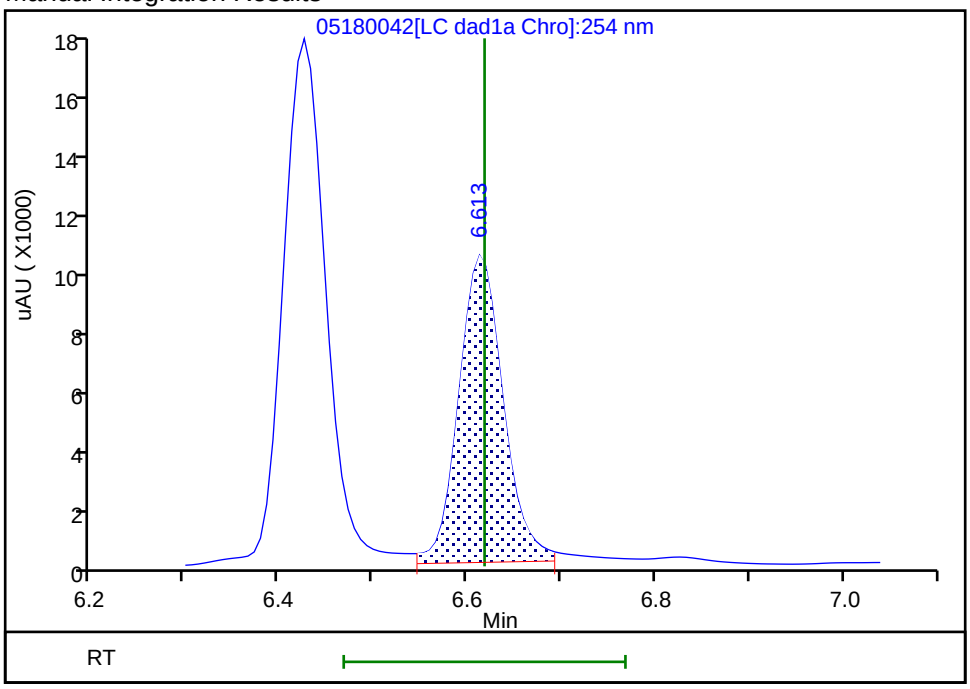
Processing Integration Results

RT: 6.61
Area: 33436
Amount: 0.228276
Amount Units: ug/mL



Manual Integration Results

RT: 6.61
Area: 32630
Amount: 0.222773
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 12:21:36 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-176591-1

SDG No.:

Lab Sample ID: ICV 280-610603/19 | Calibration Date: 04/28/2023 23:38

Instrument ID: CHHPLC_X5 | Calib Start Date: 04/28/2023 18:24

GC Column: Luna-phenylhex ID: 4.60(mm) | Calib End Date: 04/28/2023 23:03

Lab File ID: 04280019.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	394332	392929		500	502	-0.4	20.0
DNX	Ave	277072	289930		524	501	4.6	20.0
HMX	Lin2		156404		417	500	-16.5	20.0
MNX	Ave	262267	264334		588	584	0.8	20.0
Picric acid	Lin2		156686		487	500	-2.6	20.0
RDX	Lin2		195166		449	500	-10.1	20.0
Nitrobenzene	Ave	398834	373736		469	500	-6.3	20.0
3,5-Dinitroaniline	Lin2		425372		477	500	-4.6	20.0
1,3-Dinitrobenzene	Ave	629351	577162		459	500	-8.3	20.0
Nitroglycerin	Ave	134735	124537		4620	5000	-7.6	20.0
2-Nitrotoluene	Ave	246963	231686		469	500	-6.2	20.0
4-Nitrotoluene	Ave	227490	217326		478	500	-4.5	20.0
4-Amino-2,6-dinitrotoluene	Ave	294210	272862		464	500	-7.3	20.0
3-Nitrotoluene	Ave	294634	265188		450	500	-10.0	20.0
2-Amino-4,6-dinitrotoluene	Ave	427939	400432		468	500	-6.4	20.0
1,3,5-Trinitrobenzene	Ave	405692	392558		484	500	-3.2	20.0
2,6-Dinitrotoluene	Ave	291675	264938		454	500	-9.2	20.0
2,4-Dinitrotoluene	Ave	584463	526892		451	500	-9.9	20.0
Tetryl	Ave	284731	322214		566	500	13.2	20.0
2,4,6-Trinitrotoluene	Ave	438876	392624		447	500	-10.5	20.0
PETN	Ave	143938	138644		4820	5000	-3.7	20.0
1,2-Dinitrobenzene	Ave	280697	261152		465	500	-7.0	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: ICV 280-610603/19 Calibration Date: 04/28/2023 23:38

Instrument ID: CHHPLC_X5 Calib Start Date: 04/28/2023 18:24

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 04/28/2023 23:03

Lab File ID: 04280019.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.08	4.97	5.27
DNX	5.92	5.81	6.11
HMX	6.58	6.45	6.75
MNX	7.46	7.34	7.64
Picric acid	7.94	7.88	8.18
RDX	8.88	8.77	9.07
Nitrobenzene	11.45	11.33	11.63
3,5-Dinitroaniline	14.32	14.21	14.51
1,3-Dinitrobenzene	14.59	14.47	14.77
Nitroglycerin	15.16	15.03	15.33
2-Nitrotoluene	15.70	15.58	15.88
4-Nitrotoluene	15.92	15.81	16.11
4-Amino-2,6-dinitrotoluene	16.48	16.37	16.67
3-Nitrotoluene	16.78	16.67	16.97
2-Amino-4,6-dinitrotoluene	17.34	17.21	17.51
1,3,5-Trinitrobenzene	17.42	17.27	17.57
2,6-Dinitrotoluene	18.60	18.48	18.78
2,4-Dinitrotoluene	19.06	18.93	19.23
Tetryl	22.33	22.24	22.54
2,4,6-Trinitrotoluene	23.12	23.03	23.33
PETN	24.39	24.33	24.63
1,2-Dinitrobenzene	12.44	12.32	12.62

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280019.D
Lims ID: ICV INT
Client ID:
Sample Type: ICV
Inject. Date: 28-Apr-2023 23:38:32 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\20230428-120896.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 29-Apr-2023 13:04:23 Calib Date: 28-Apr-2023 23:03:35
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280018.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1621

First Level Reviewer: LV5D Date: 29-Apr-2023 10:26:41

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.082	5.115	-0.033	197054	0.5015	0.4997	
4 DNX	1	5.922	5.955	-0.033	145110	0.5005	0.5237	
5 HMX	1	6.576	6.595	-0.019	78202	0.5000	0.4173	
6 MNX	1	7.456	7.489	-0.033	154239	0.5835	0.5881	
7 2,4,6-Trinitrophenol	1	7.936	8.029	-0.093	78343	0.5000	0.4868	
8 RDX	1	8.882	8.915	-0.033	97583	0.5000	0.4494	
9 Nitrobenzene	1	11.449	11.482	-0.033	186868	0.5000	0.4685	
$ 10 1,2-Dinitrobenzene	1	12.436	12.469	-0.033	130576	0.5000	0.4652	
11 3,5-Dinitroaniline	1	14.322	14.355	-0.033	212686	0.5000	0.4770	M
12 1,3-Dinitrobenzene	1	14.589	14.622	-0.033	288581	0.5000	0.4585	M
13 Nitroglycerin	2	15.156	15.182	-0.026	622685	5.00	4.62	
14 o-Nitrotoluene	1	15.696	15.729	-0.033	115843	0.5000	0.4691	M
16 p-Nitrotoluene	1	15.922	15.955	-0.033	108663	0.5000	0.4777	M
17 4-Amino-2,6-dinitrotoluene	1	16.482	16.515	-0.033	136431	0.5000	0.4637	M
18 m-Nitrotoluene	1	16.782	16.815	-0.033	132594	0.5000	0.4500	M
19 2-Amino-4,6-dinitrotoluene	1	17.342	17.362	-0.020	200216	0.5000	0.4679	M
20 1,3,5-Trinitrobenzene	1	17.422	17.422	0.000	196279	0.5000	0.4838	M
21 2,6-Dinitrotoluene	1	18.602	18.629	-0.027	132469	0.5000	0.4542	
22 2,4-Dinitrotoluene	1	19.056	19.082	-0.026	263446	0.5000	0.4507	
23 Tetryl	1	22.329	22.389	-0.060	161107	0.5000	0.5658	
24 2,4,6-Trinitrotoluene	1	23.122	23.182	-0.060	196312	0.5000	0.4473	
25 PETN	2	24.389	24.475	-0.086	693219	5.00	4.82	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8330Surrogate_00143	Amount Added:	50.00	Units: uL
8330_OP_DMT_00017	Amount Added:	50.00	Units: uL
8330 LCS_00126	Amount Added:	50.00	Units: uL

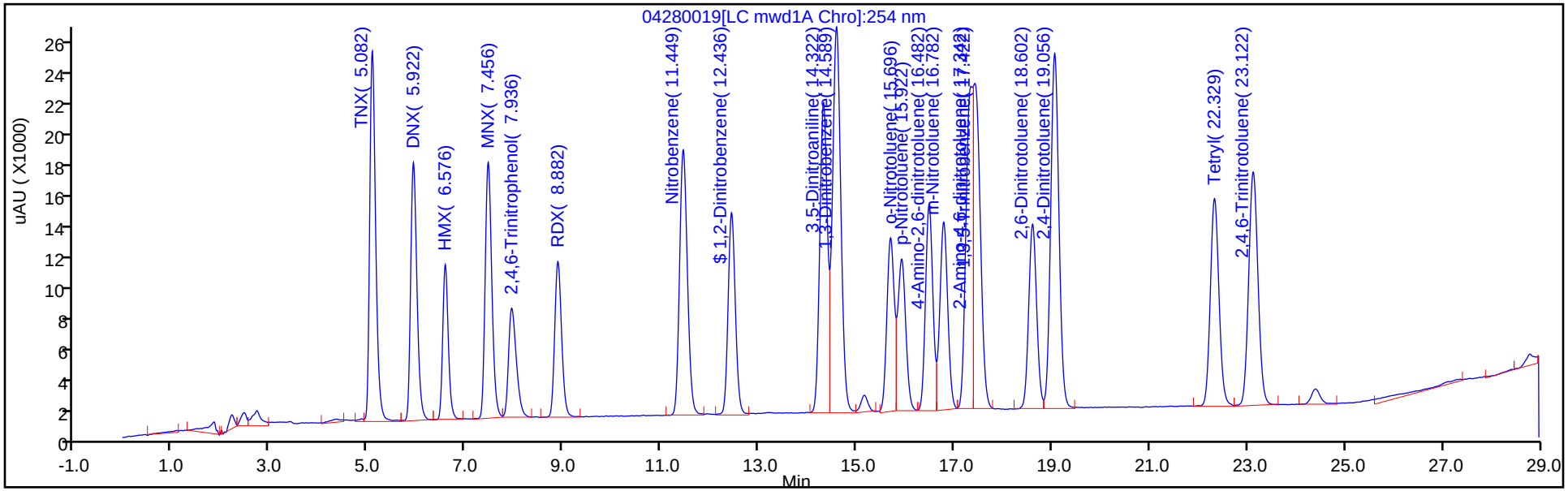
Report Date: 29-Apr-2023 13:06:04 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

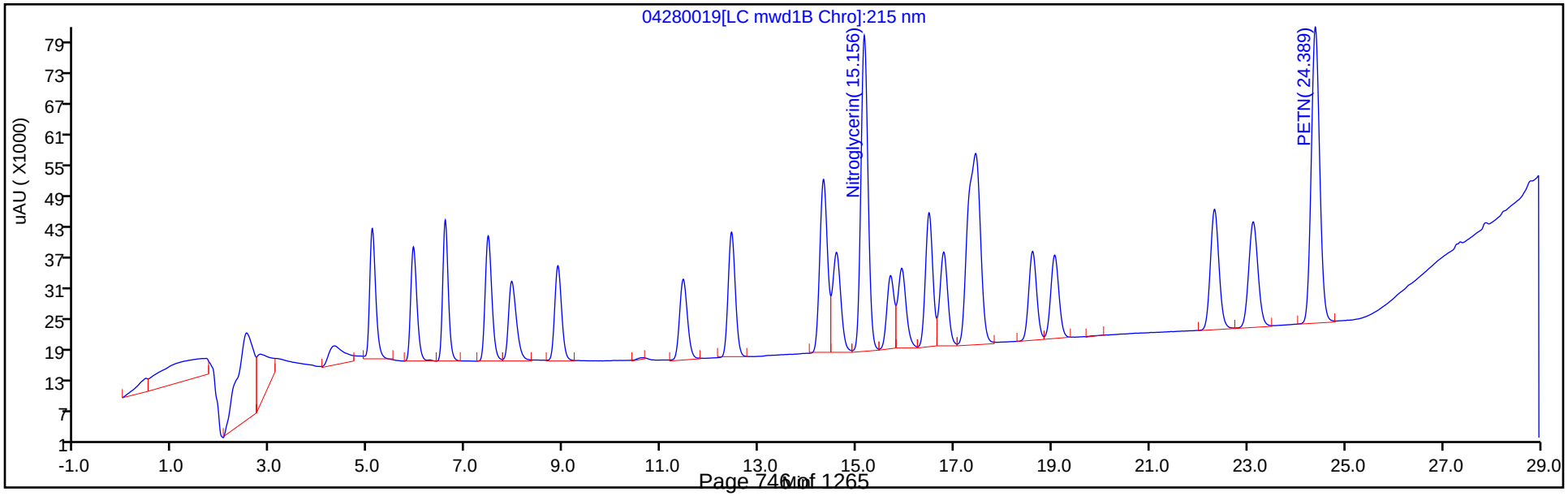
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280019.D

Injection Date:	28-Apr-2023 23:38:32	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



Manual Integration/User Assign Peak Report

Eurofins Denver

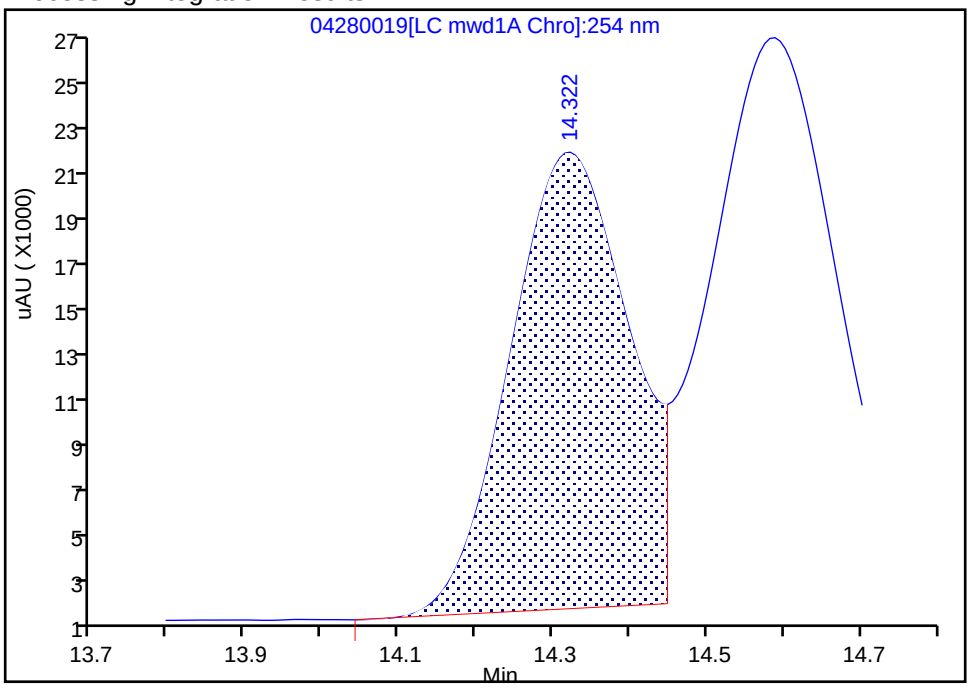
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280019.D				
Injection Date:	28-Apr-2023 23:38:32	Instrument ID:	CHHPLC_X5		
Lims ID:	ICV INT				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

11 3,5-Dinitroaniline, CAS: 618-87-1

Signal: 1

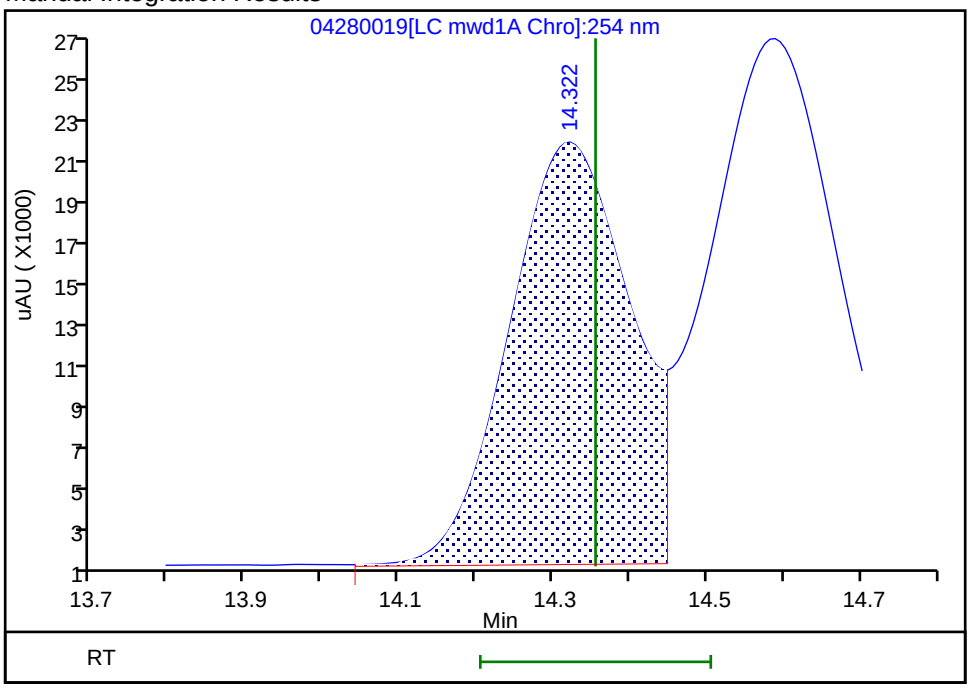
Processing Integration Results

RT: 14.32
Area: 204903
Amount: 0.459536
Amount Units: ug/ml



Manual Integration Results

RT: 14.32
Area: 212686
Amount: 0.477043
Amount Units: ug/ml



Reviewer: LV5D, 29-Apr-2023 10:27:10
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

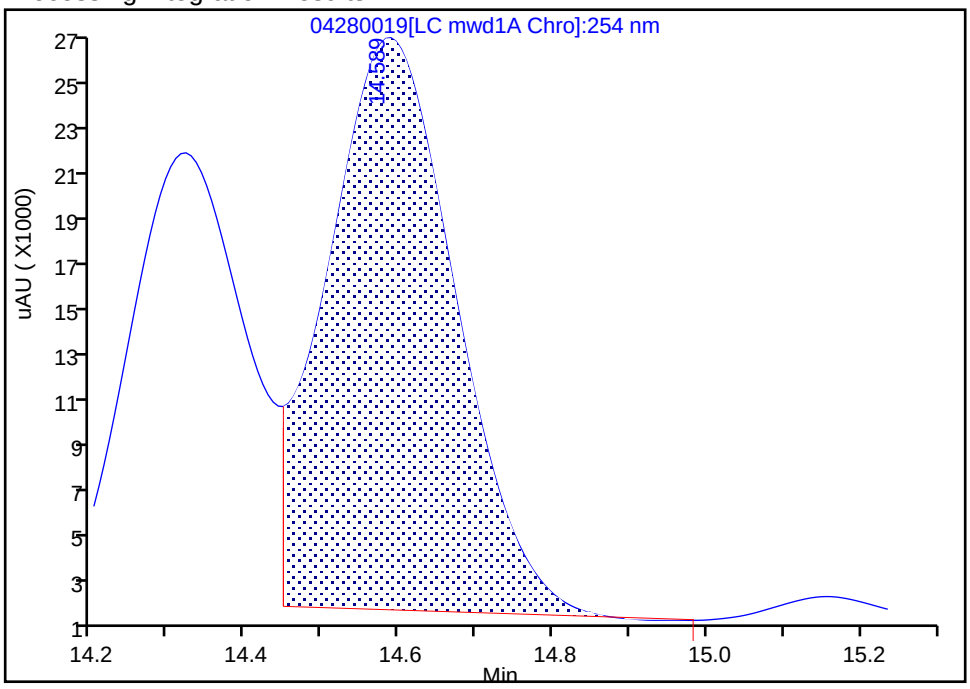
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280019.D				
Injection Date:	28-Apr-2023 23:38:32	Instrument ID:	CHHPLC_X5		
Lims ID:	ICV INT				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

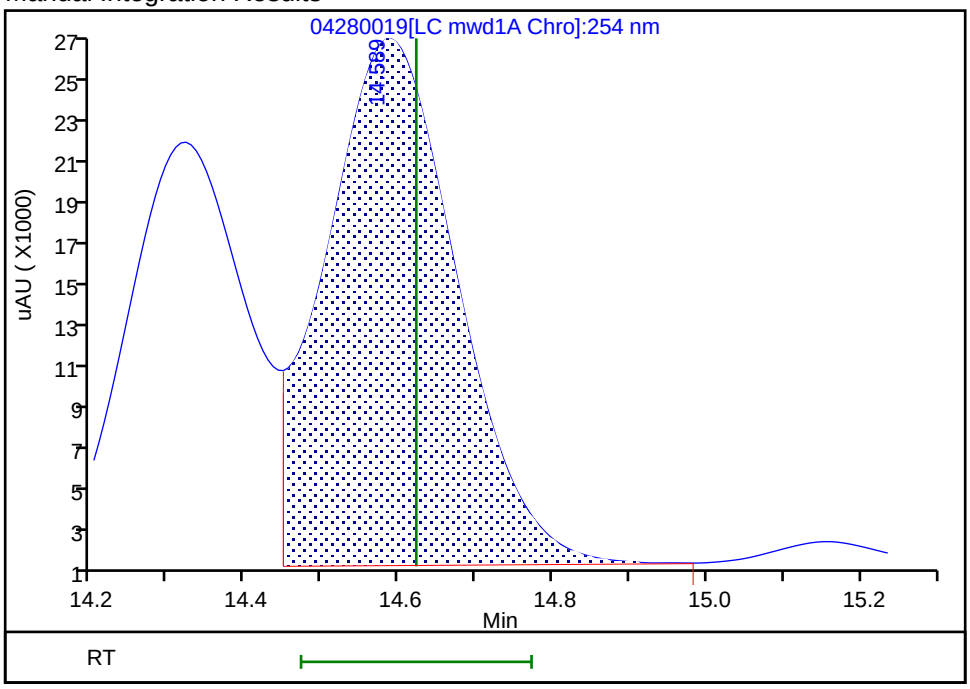
Processing Integration Results

RT: 14.59
Area: 278067
Amount: 0.441831
Amount Units: ug/ml



Manual Integration Results

RT: 14.59
Area: 288581
Amount: 0.458537
Amount Units: ug/ml



Reviewer: LV5D, 29-Apr-2023 10:27:10
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

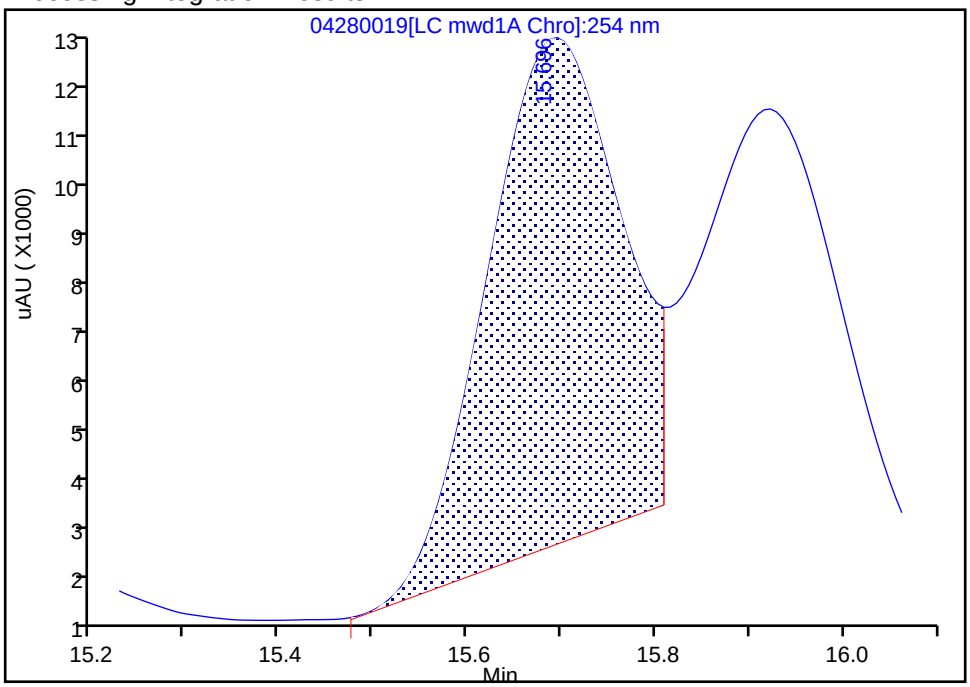
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280019.D
Injection Date: 28-Apr-2023 23:38:32 Instrument ID: CHHPLC_X5
Lims ID: ICV INT
Client ID:
Operator ID: JZ/JG ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X5_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC mwd1A, 254 nm

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

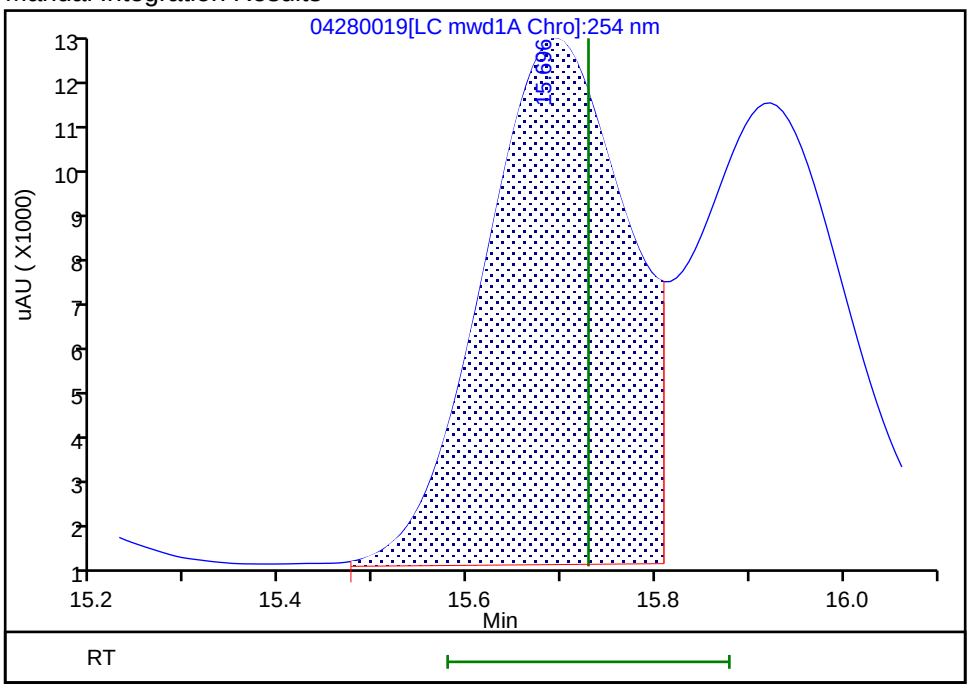
Processing Integration Results

RT: 15.70
Area: 94233
Amount: 0.381567
Amount Units: ug/ml



Manual Integration Results

RT: 15.70
Area: 115843
Amount: 0.469070
Amount Units: ug/ml



Reviewer: LV5D, 29-Apr-2023 10:27:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

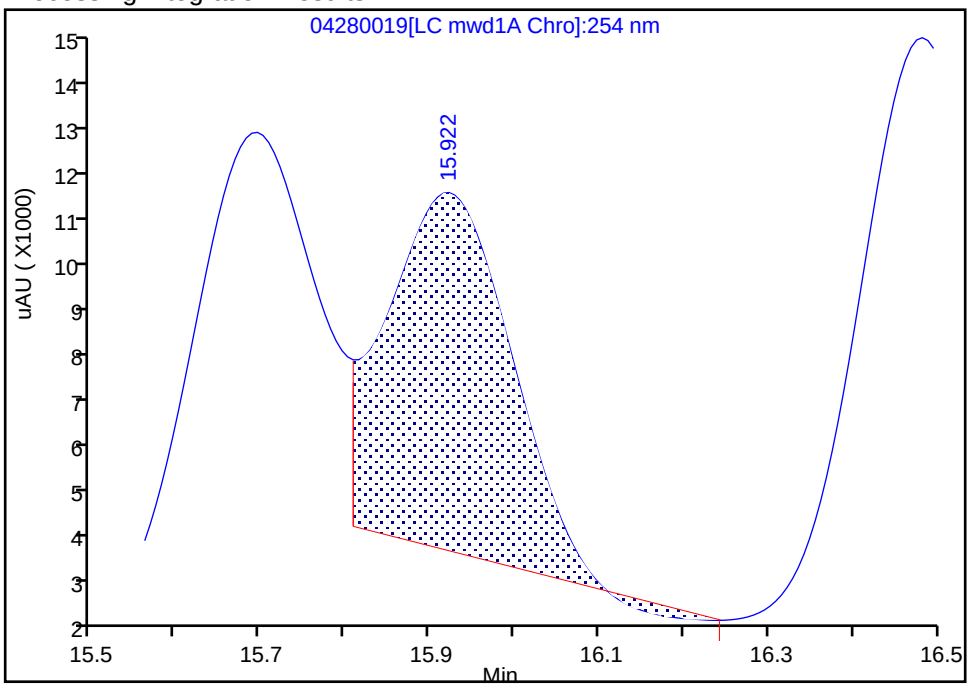
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280019.D				
Injection Date:	28-Apr-2023 23:38:32	Instrument ID:	CHHPLC_X5		
Lims ID:	ICV INT				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

16 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

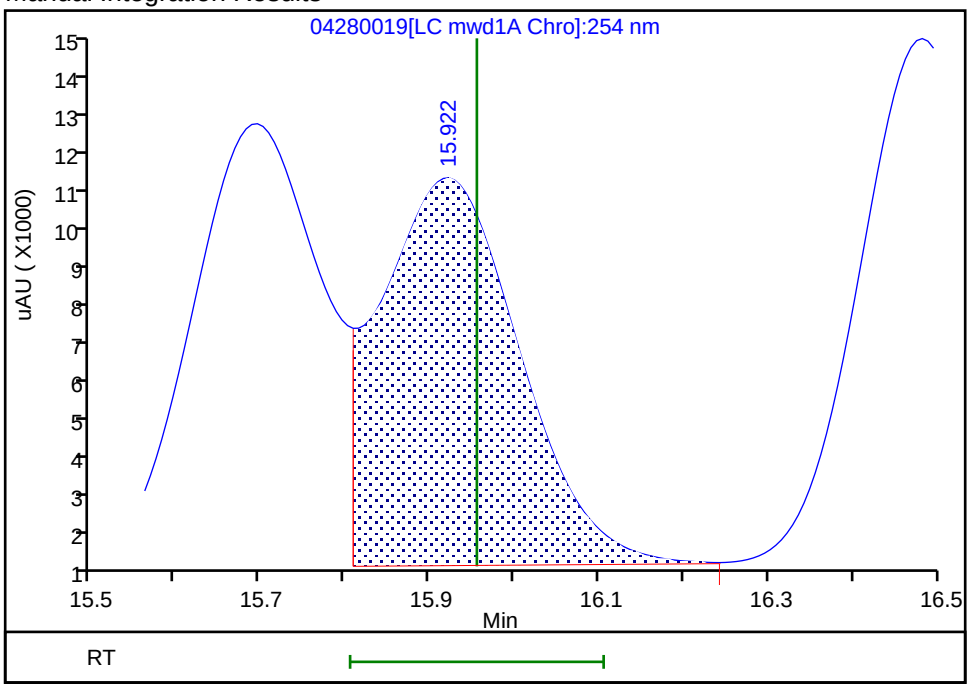
Processing Integration Results

RT: 15.92
Area: 83952
Amount: 0.369036
Amount Units: ug/ml



Manual Integration Results

RT: 15.92
Area: 108663
Amount: 0.477660
Amount Units: ug/ml



Reviewer: LV5D, 29-Apr-2023 10:27:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

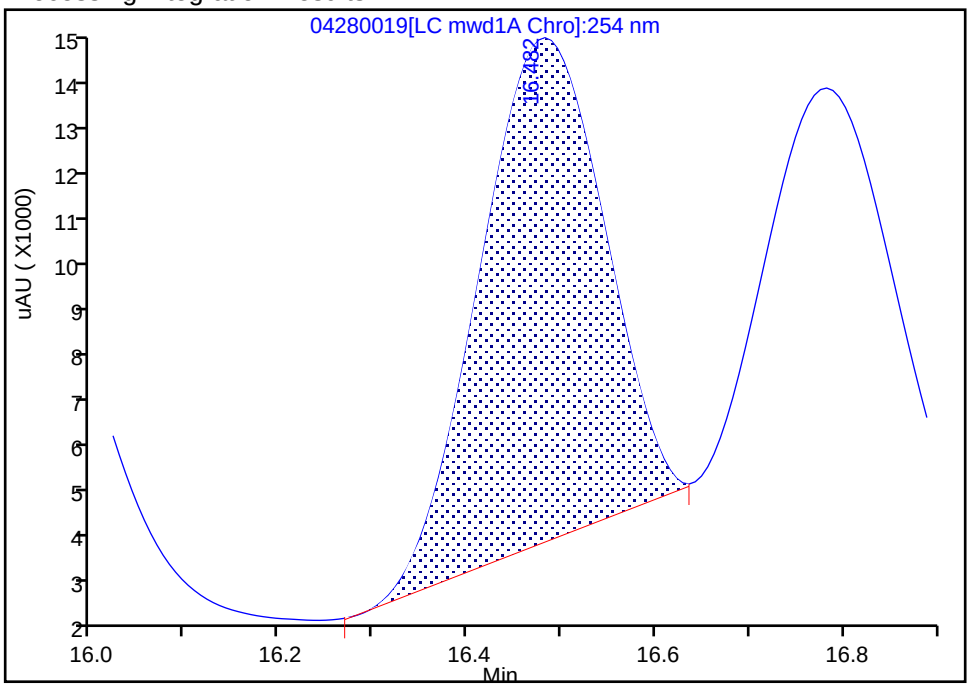
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280019.D				
Injection Date:	28-Apr-2023 23:38:32	Instrument ID:	CHHPLC_X5		
Lims ID:	ICV INT				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

17 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

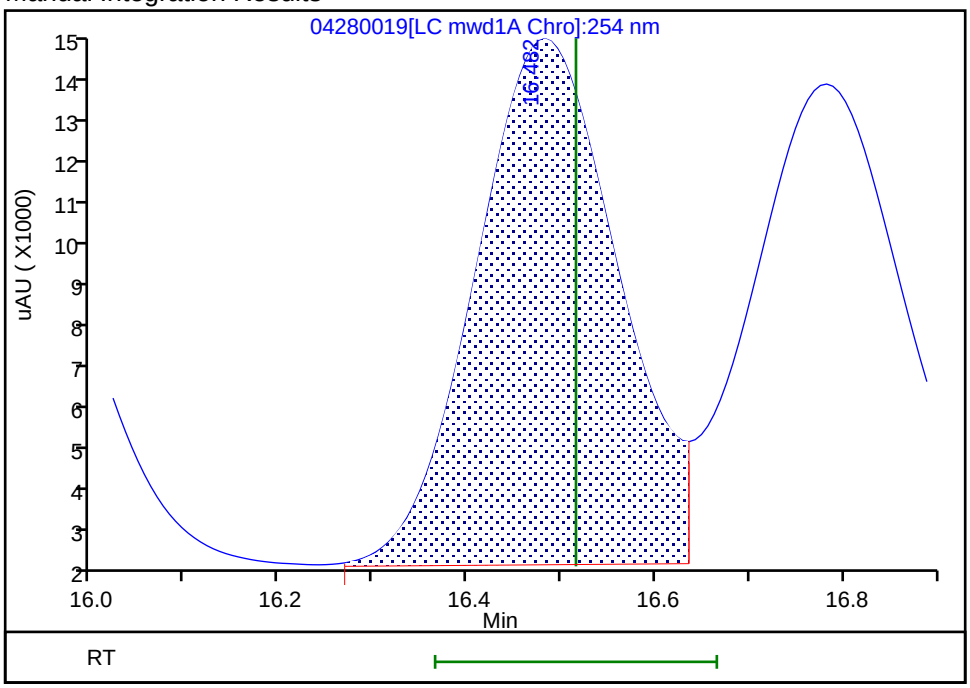
Processing Integration Results

RT: 16.48
Area: 103981
Amount: 0.365374
Amount Units: ug/ml



Manual Integration Results

RT: 16.48
Area: 136431
Amount: 0.463720
Amount Units: ug/ml



Reviewer: LV5D, 29-Apr-2023 10:27:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

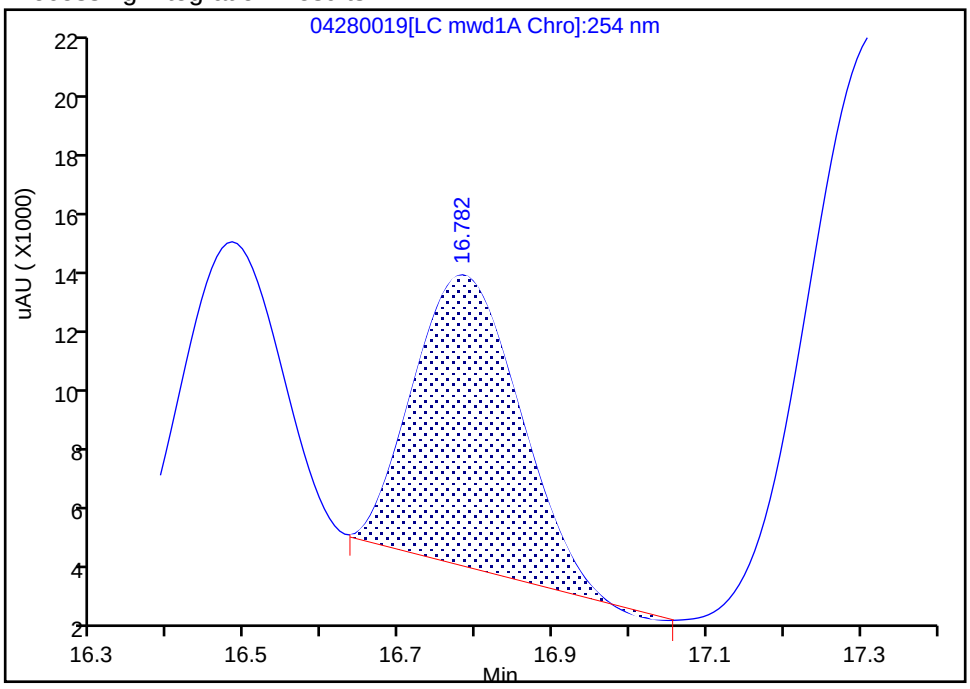
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280019.D				
Injection Date:	28-Apr-2023 23:38:32	Instrument ID:	CHHPLC_X5		
Lims ID:	ICV INT				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

18 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

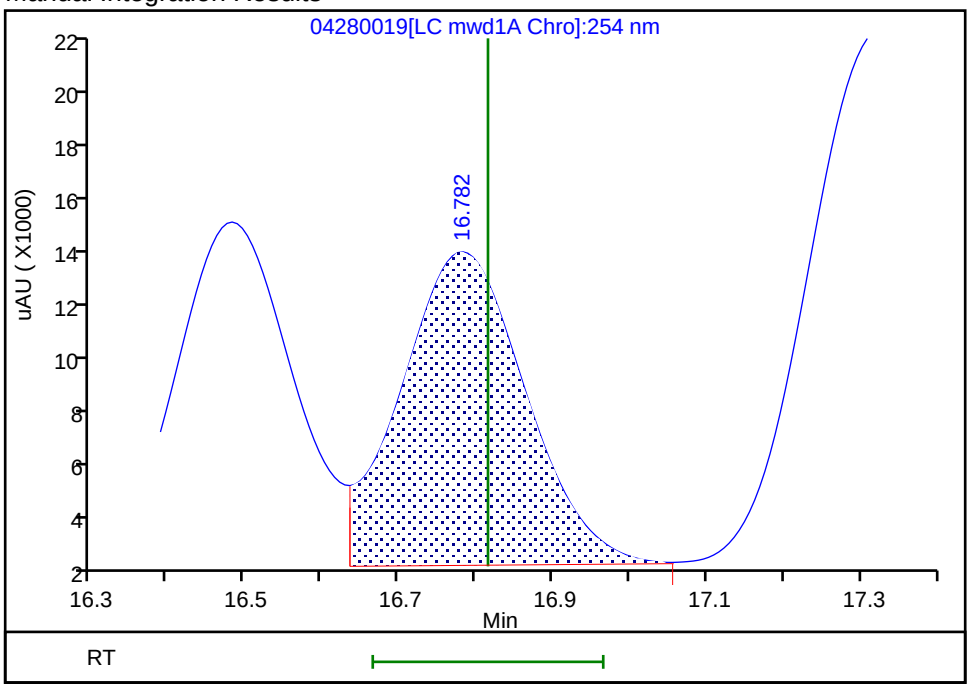
Processing Integration Results

RT: 16.78
Area: 97090
Amount: 0.342723
Amount Units: ug/ml



Manual Integration Results

RT: 16.78
Area: 132594
Amount: 0.450029
Amount Units: ug/ml



Reviewer: LV5D, 29-Apr-2023 10:27:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

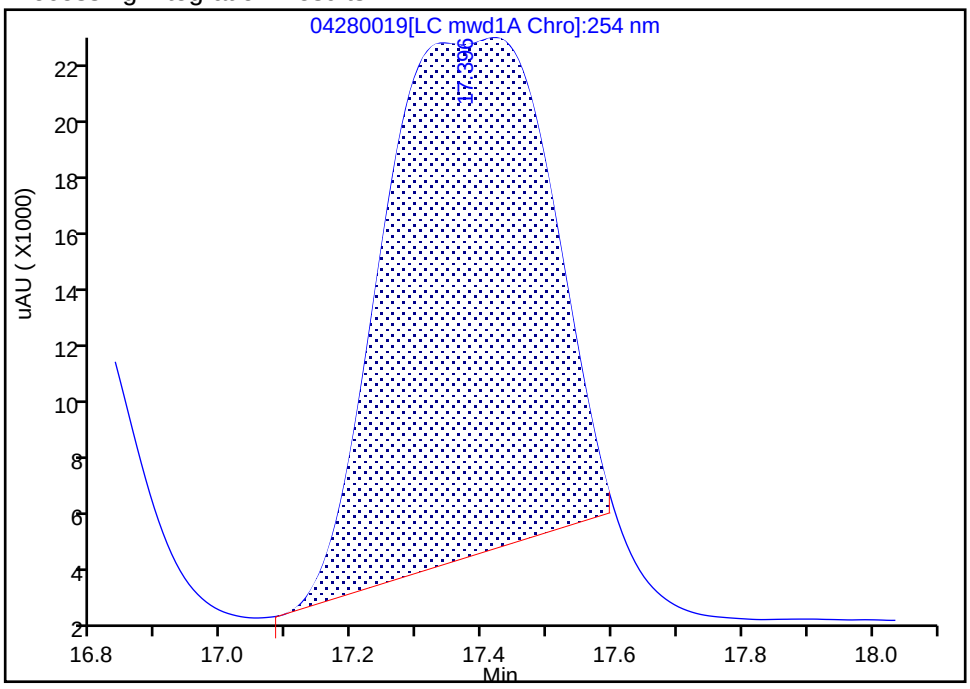
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280019.D				
Injection Date:	28-Apr-2023 23:38:32	Instrument ID:	CHHPLC_X5		
Lims ID:	ICV INT				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

20 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

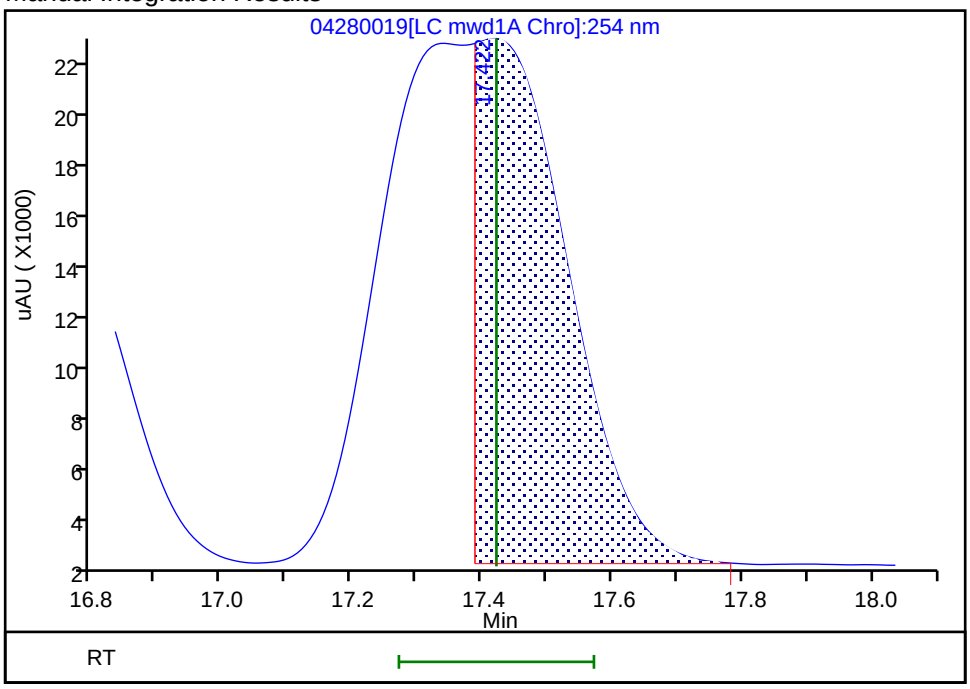
Processing Integration Results

RT: 17.40
Area: 328214
Amount: 0.809022
Amount Units: ug/ml



Manual Integration Results

RT: 17.42
Area: 196279
Amount: 0.483812
Amount Units: ug/ml



Reviewer: LV5D, 29-Apr-2023 10:27:01

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-176591-1

SDG No.:

Lab Sample ID: ICV 280-610603/28 | Calibration Date: 04/29/2023 04:52

Instrument ID: CHHPLC_X5 | Calib Start Date: 04/29/2023 00:13

GC Column: Luna-phenylhex ID: 4.60(mm) | Calib End Date: 04/29/2023 04:18

Lab File ID: 04280028.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,6-diamino-4-nitrotoluene	Ave	403300	412518		511	500	2.3	20.0
2,4-diamino-6-nitrotoluene	Ave	225281	220158		489	500	-2.3	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: ICV 280-610603/28 Calibration Date: 04/29/2023 04:52

Instrument ID: CHHPLC_X5 Calib Start Date: 04/29/2023 00:13

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 04/29/2023 04:18

Lab File ID: 04280028.D

Analyte	RT	RT WINDOW	
		FROM	TO
2,6-diamino-4-nitrotoluene	4.10	3.96	4.26
2,4-diamino-6-nitrotoluene	4.64	4.50	4.80

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280028.D
Lims ID: ICV ADD
Client ID:
Sample Type: ICV
Inject. Date: 29-Apr-2023 04:52:55 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: ICV ADD
Operator ID: JZ/JG Instrument ID: CHHPLC_X5
Sublist:

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 29-Apr-2023 13:04:23 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1621

First Level Reviewer: LV5D Date: 29-Apr-2023 10:31:01

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.102	4.113	-0.011	206259	0.5000	0.5114	
2 2,4-diamino-6-nitrotoluene	1	4.635	4.653	-0.018	110079	0.5000	0.4886	

QC Flag Legend

Processing Flags

Reagents:

8330DiaminLCS_00056 Amount Added: 50.00 Units: uL

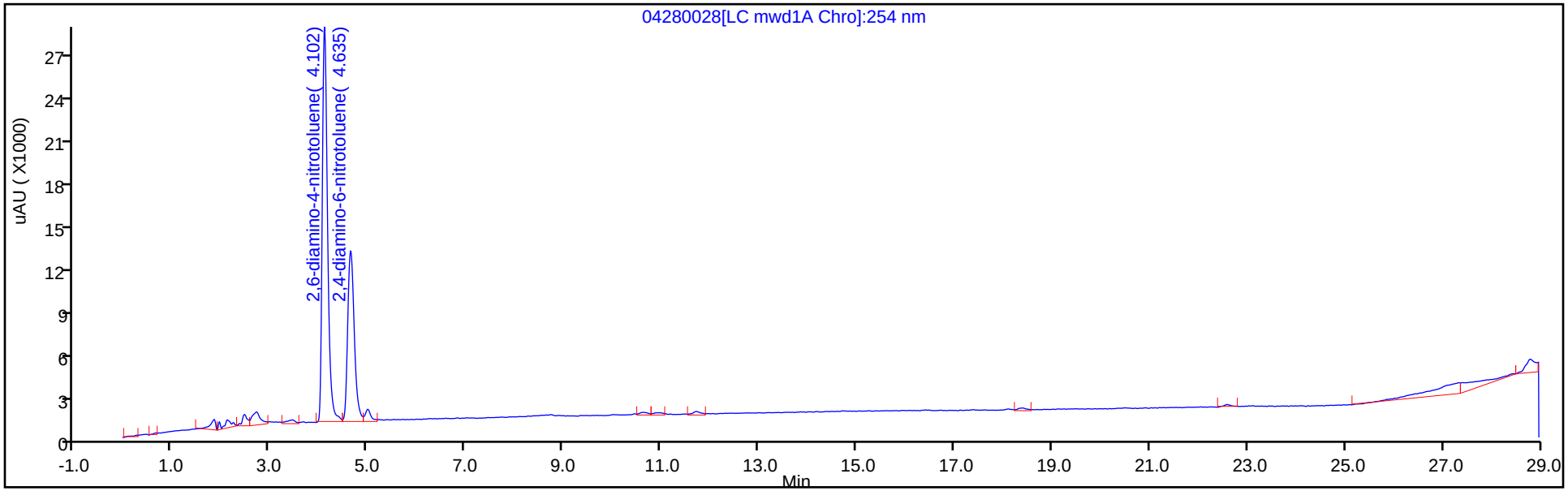
Report Date: 29-Apr-2023 13:06:04 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

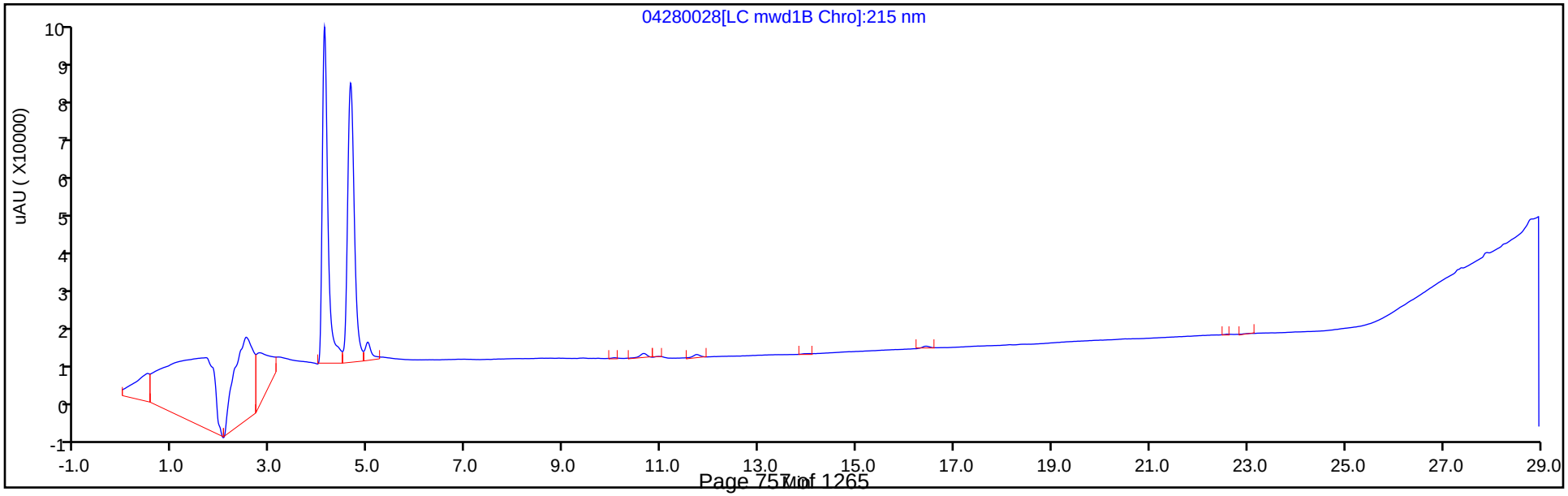
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280028.D

Injection Date:	29-Apr-2023 04:52:55	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	ICV ADD			Worklist Smp#:	28
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
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



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613172/9 | Calibration Date: 05/19/2023 16:43

Instrument ID: CHHPLC_X5 | Calib Start Date: 04/28/2023 18:24

GC Column: Luna-phenylhex ID: 4.60(mm) | Calib End Date: 04/28/2023 23:03

Lab File ID: 05190009.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	394332	414177		263	251	5.0	20.0
DNX	Ave	277072	291764		264	250	5.3	20.0
HMX	Lin2		192124		255	250	1.8	20.0
MNX	Ave	262267	267678		298	292	2.1	20.0
Picric acid	Lin2		165240		255	250	2.0	20.0
RDX	Lin2		237040		272	250	8.7	20.0
Nitrobenzene	Ave	398834	400804		251	250	0.5	20.0
3,5-Dinitroaniline	Lin2		470964		263	250	5.4	20.0
1,3-Dinitrobenzene	Ave	629351	622340		247	250	-1.1	20.0
Nitroglycerin	Ave	134735	134202		2490	2500	-0.4	20.0
2-Nitrotoluene	Ave	246963	253100		256	250	2.5	20.0
4-Nitrotoluene	Ave	227490	228436		251	250	0.4	20.0
4-Amino-2,6-dinitrotoluene	Ave	294210	294692		250	250	0.2	20.0
3-Nitrotoluene	Ave	294634	295392		251	250	0.3	20.0
2-Amino-4,6-dinitrotoluene	Ave	427939	434332		254	250	1.5	20.0
1,3,5-Trinitrobenzene	Ave	405692	407536		251	250	0.5	20.0
2,6-Dinitrotoluene	Ave	291675	286980		246	250	-1.6	20.0
2,4-Dinitrotoluene	Ave	584463	583320		250	250	-0.2	20.0
Tetryl	Ave	284731	280336		246	250	-1.5	20.0
2,4,6-Trinitrotoluene	Ave	438876	426288		243	250	-2.9	20.0
PETN	Ave	143938	136830		2380	2500	-4.9	20.0
1,2-Dinitrobenzene	Ave	280697	279500		249	250	-0.4	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613172/9 Calibration Date: 05/19/2023 16:43

Instrument ID: CHHPLC_X5 Calib Start Date: 04/28/2023 18:24

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 04/28/2023 23:03

Lab File ID: 05190009.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.22	5.07	5.37
DNX	6.07	5.92	6.22
HMX	6.71	6.56	6.86
MNX	7.57	7.42	7.72
Picric acid	8.42	8.27	8.57
RDX	8.95	8.80	9.10
Nitrobenzene	11.45	11.30	11.60
3,5-Dinitroaniline	14.27	14.12	14.42
1,3-Dinitrobenzene	14.53	14.38	14.68
Nitroglycerin	15.05	14.90	15.20
2-Nitrotoluene	15.61	15.46	15.76
4-Nitrotoluene	15.83	15.68	15.98
4-Amino-2,6-dinitrotoluene	16.38	16.23	16.53
3-Nitrotoluene	16.68	16.53	16.83
2-Amino-4,6-dinitrotoluene	17.21	17.06	17.36
1,3,5-Trinitrobenzene	17.34	17.19	17.49
2,6-Dinitrotoluene	18.49	18.34	18.64
2,4-Dinitrotoluene	18.94	18.79	19.09
Tetryl	22.21	22.06	22.36
2,4,6-Trinitrotoluene	23.01	22.86	23.16
PETN	24.26	24.11	24.41
1,2-Dinitrobenzene	12.41	12.26	12.56

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190009.D
Lims ID: CCV ADD
Client ID:
Sample Type: CCV
Inject. Date: 19-May-2023 16:43:40 ALS Bottle#: 7 Worklist Smp#: 9
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV ADD
Operator ID: JZ/JG Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub11

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 20-May-2023 11:53:06 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1663

First Level Reviewer: LV5D Date: 19-May-2023 17:29:58

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 2,6-diamino-4-nitrotoluene	1	4.214	4.214	0.000	105709	0.2500	0.2621	
	2 2,4-diamino-6-nitrotoluene	1	4.767	4.767	0.000	63692	0.2500	0.2827	
	3 TNX	1	5.221	5.221	0.000	103855	0.2508	0.2634	
	4 DNX	1	6.067	6.067	0.000	73014	0.2503	0.2635	
	5 HMX	1	6.707	6.707	0.000	48031	0.2500	0.2545	
	6 MNX	1	7.567	7.567	0.000	78095	0.2918	0.2978	
	7 2,4,6-Trinitrophenol	1	8.421	8.421	0.000	41310	0.2500	0.2551	
	8 RDX	1	8.954	8.954	0.000	59260	0.2500	0.2717	
	9 Nitrobenzene	1	11.454	11.454	0.000	100201	0.2500	0.2512	
$	10 1,2-Dinitrobenzene	1	12.414	12.414	0.000	69875	0.2500	0.2489	
	11 3,5-Dinitroaniline	1	14.267	14.267	0.000	117741	0.2500	0.2635	M
	12 1,3-Dinitrobenzene	1	14.534	14.534	0.000	155585	0.2500	0.2472	M
	13 Nitroglycerin	2	15.054	15.054	0.000	335506	2.50	2.49	
	14 o-Nitrotoluene	1	15.607	15.607	0.000	63275	0.2500	0.2562	M
	16 p-Nitrotoluene	1	15.834	15.834	0.000	57109	0.2500	0.2510	M
	17 4-Amino-2,6-dinitrotoluene	1	16.380	16.380	0.000	73673	0.2500	0.2504	M
	18 m-Nitrotoluene	1	16.680	16.680	0.000	73848	0.2500	0.2506	M
	19 2-Amino-4,6-dinitrotoluene	1	17.214	17.214	0.000	108583	0.2500	0.2537	M
	20 1,3,5-Trinitrobenzene	1	17.340	17.340	0.000	101884	0.2500	0.2511	M
	21 2,6-Dinitrotoluene	1	18.487	18.487	0.000	71745	0.2500	0.2460	
	22 2,4-Dinitrotoluene	1	18.940	18.940	0.000	145830	0.2500	0.2495	
	23 Tetryl	1	22.214	22.214	0.000	70084	0.2500	0.2461	
	24 2,4,6-Trinitrotoluene	1	23.014	23.014	0.000	106572	0.2500	0.2428	
	25 PETN	2	24.261	24.261	0.000	342075	2.50	2.38	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00013	Amount Added:	12.50	Units: uL
8330IntermStk_00076	Amount Added:	25.00	Units: uL
8330_ADDs_00037	Amount Added:	12.50	Units: uL

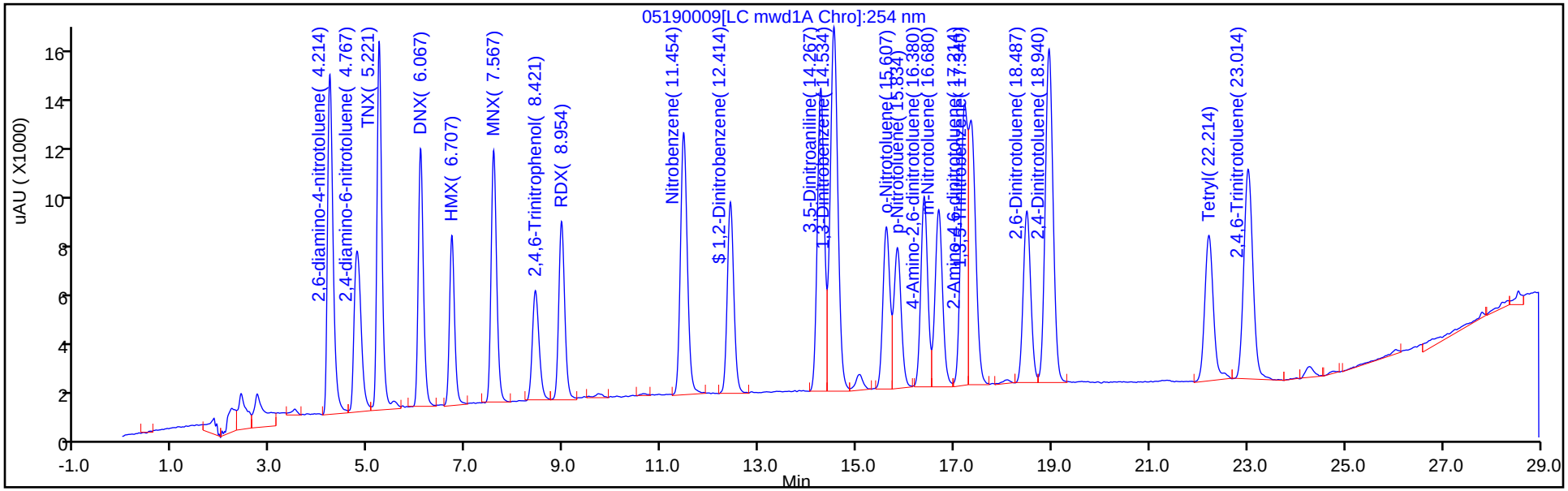
Report Date: 20-May-2023 11:53:07 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

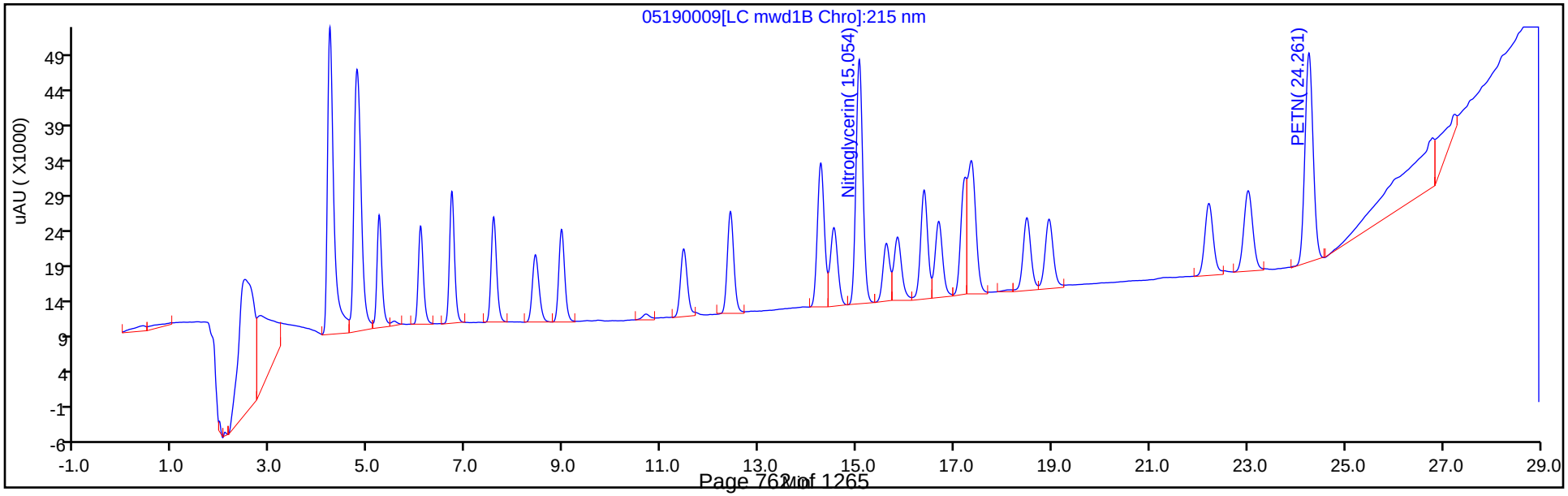
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190009.D

Injection Date:	19-May-2023 16:43:40	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	CCV ADD			Worklist Smp#:	9
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



Manual Integration/User Assign Peak Report

Eurofins Denver

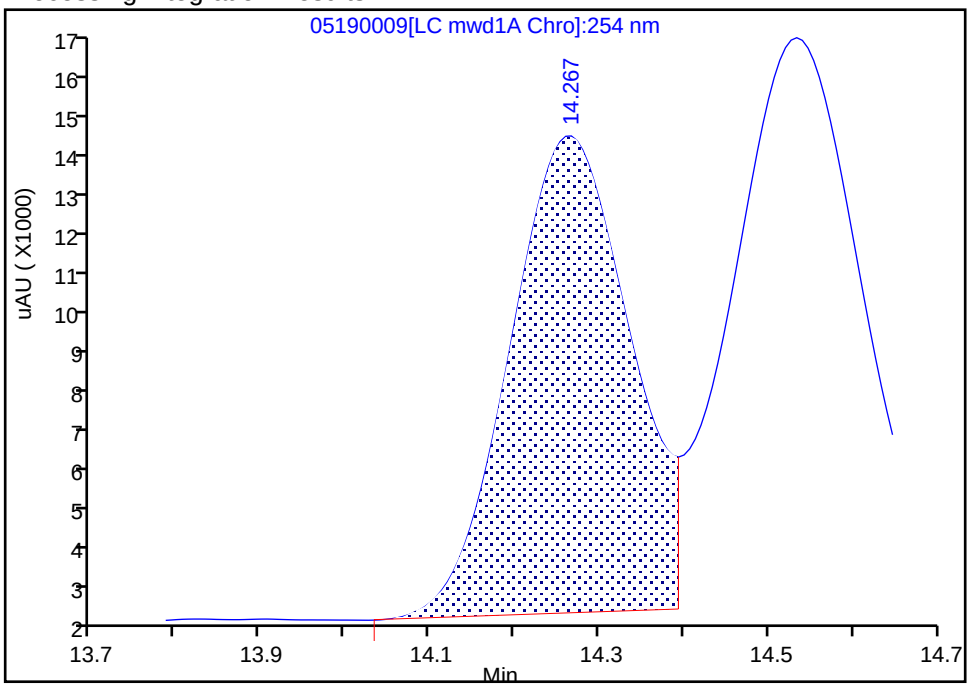
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190009.D				
Injection Date:	19-May-2023 16:43:40	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV ADD				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit 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

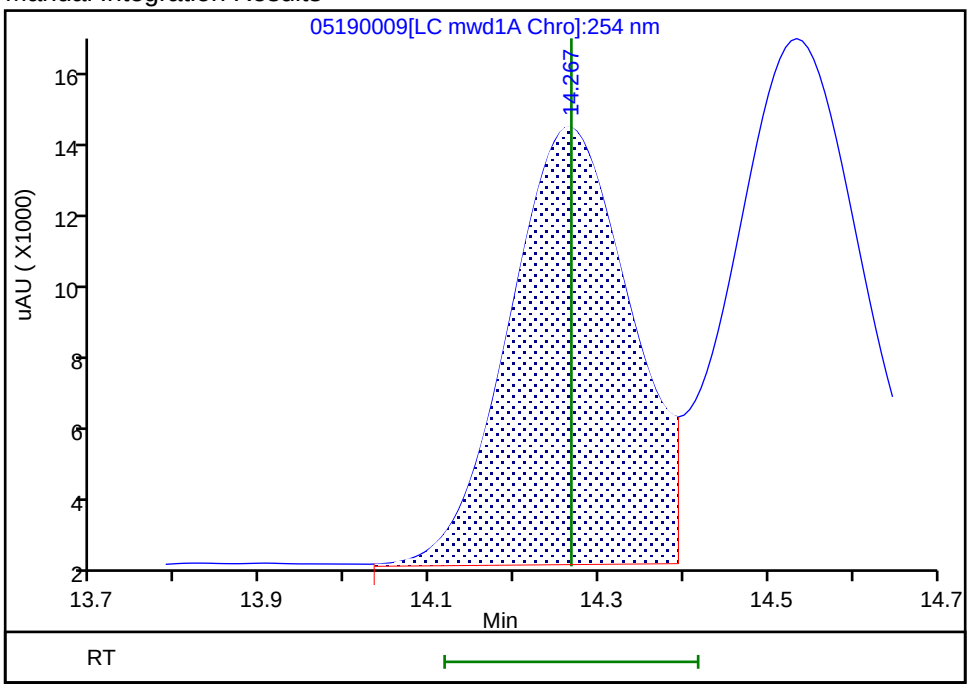
Processing Integration Results

RT: 14.27
Area: 114545
Amount: 0.256288
Amount Units: ug/ml



Manual Integration Results

RT: 14.27
Area: 117741
Amount: 0.263477
Amount Units: ug/ml



Reviewer: LV5D, 19-May-2023 17:29:53 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

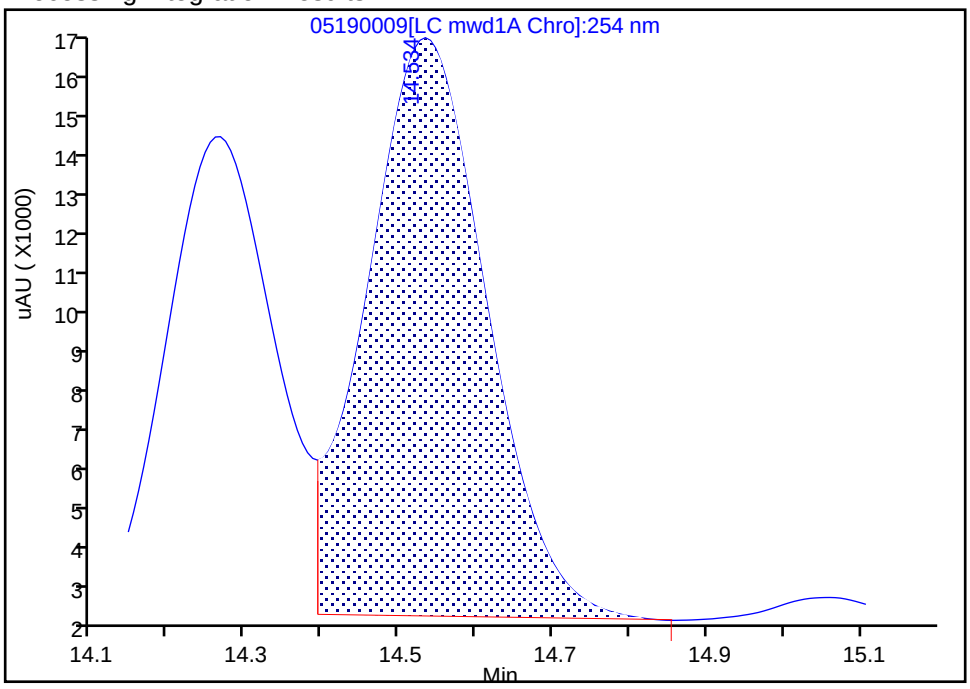
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190009.D				
Injection Date:	19-May-2023 16:43:40	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV ADD				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit 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

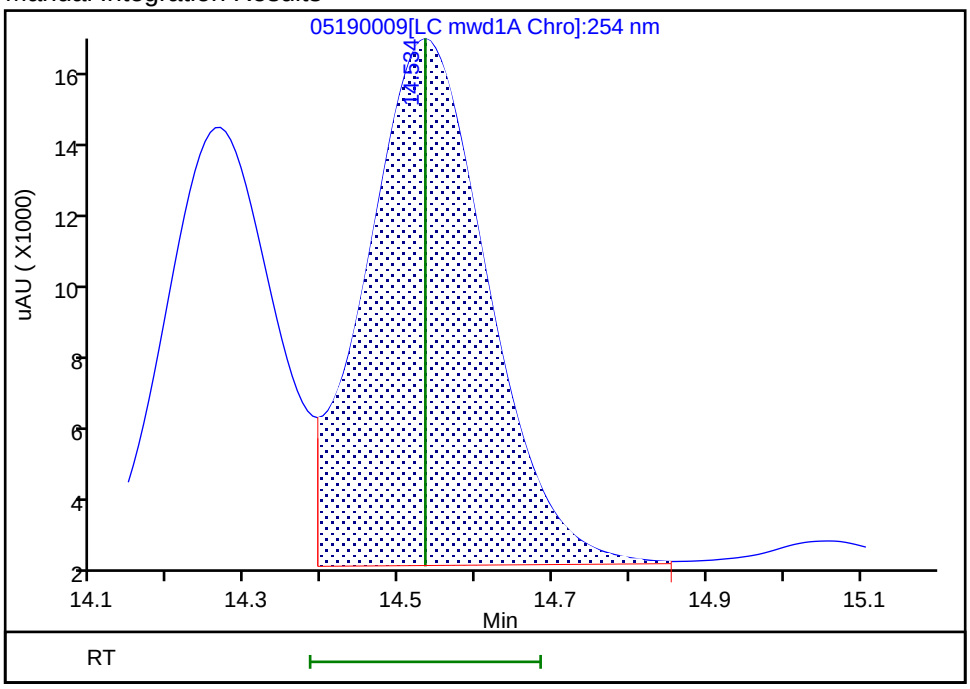
Processing Integration Results

RT: 14.53
Area: 151031
Amount: 0.239979
Amount Units: ug/ml



Manual Integration Results

RT: 14.53
Area: 155585
Amount: 0.247215
Amount Units: ug/ml



Reviewer: LV5D, 19-May-2023 17:29:53 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

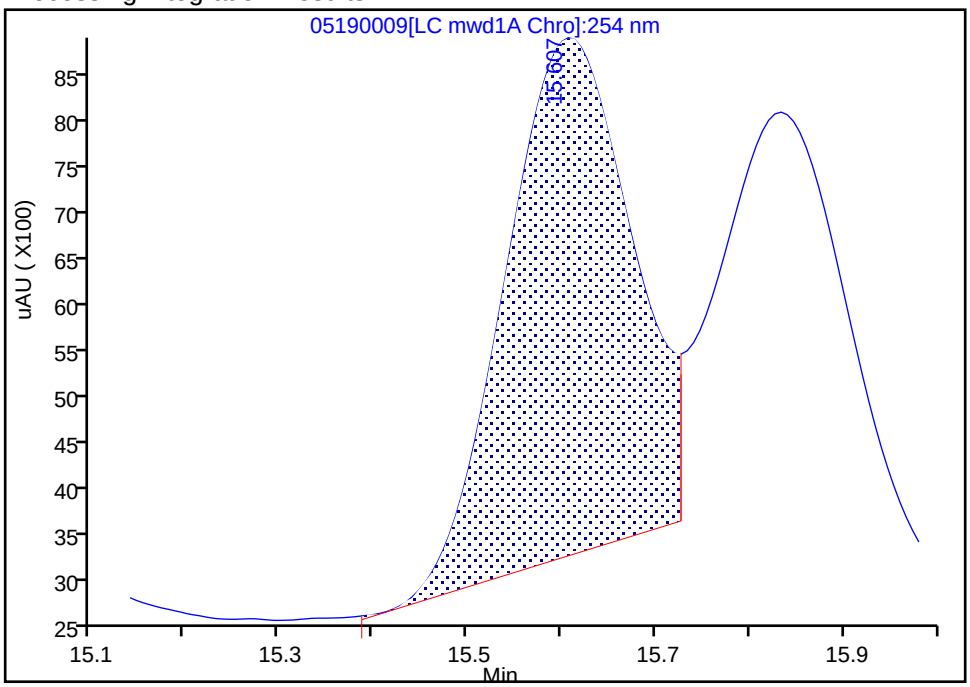
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190009.D				
Injection Date:	19-May-2023 16:43:40	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV ADD				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

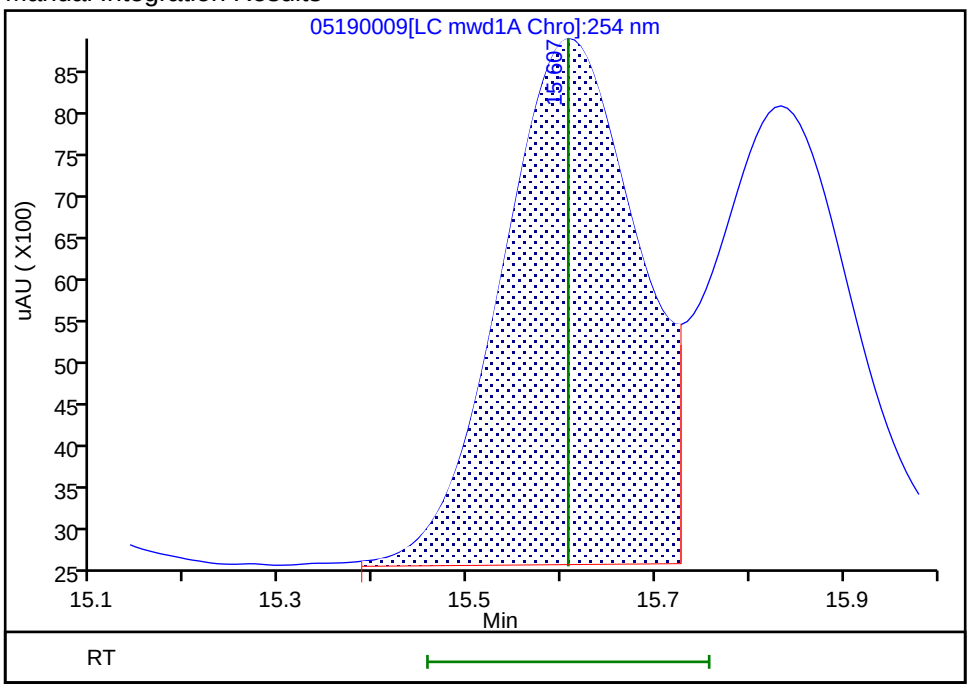
Processing Integration Results

RT: 15.61
Area: 52678
Amount: 0.213303
Amount Units: ug/ml



Manual Integration Results

RT: 15.61
Area: 63275
Amount: 0.256212
Amount Units: ug/ml



Reviewer: LV5D, 19-May-2023 17:29:53 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

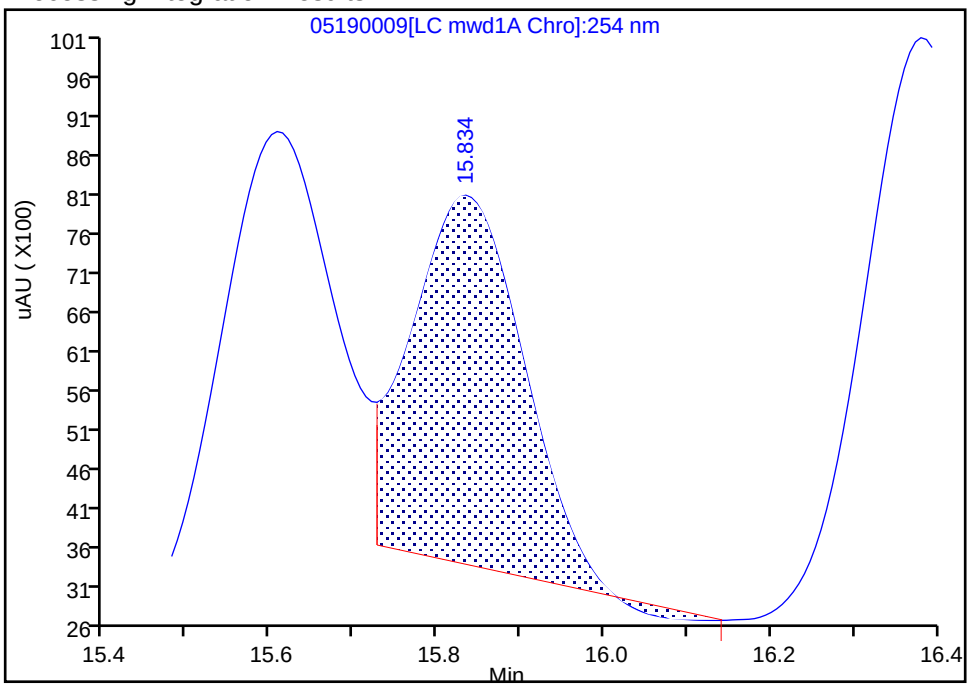
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190009.D				
Injection Date:	19-May-2023 16:43:40	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV ADD				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

16 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

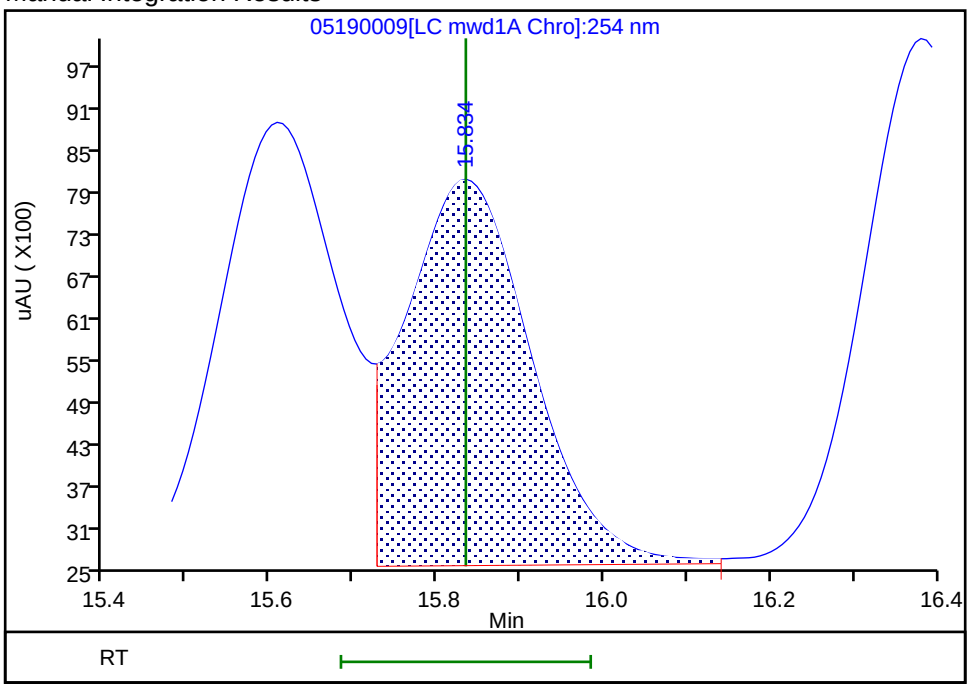
Processing Integration Results

RT: 15.83
Area: 45165
Amount: 0.198536
Amount Units: ug/ml



Manual Integration Results

RT: 15.83
Area: 57109
Amount: 0.251039
Amount Units: ug/ml



Reviewer: LV5D, 19-May-2023 17:29:53 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

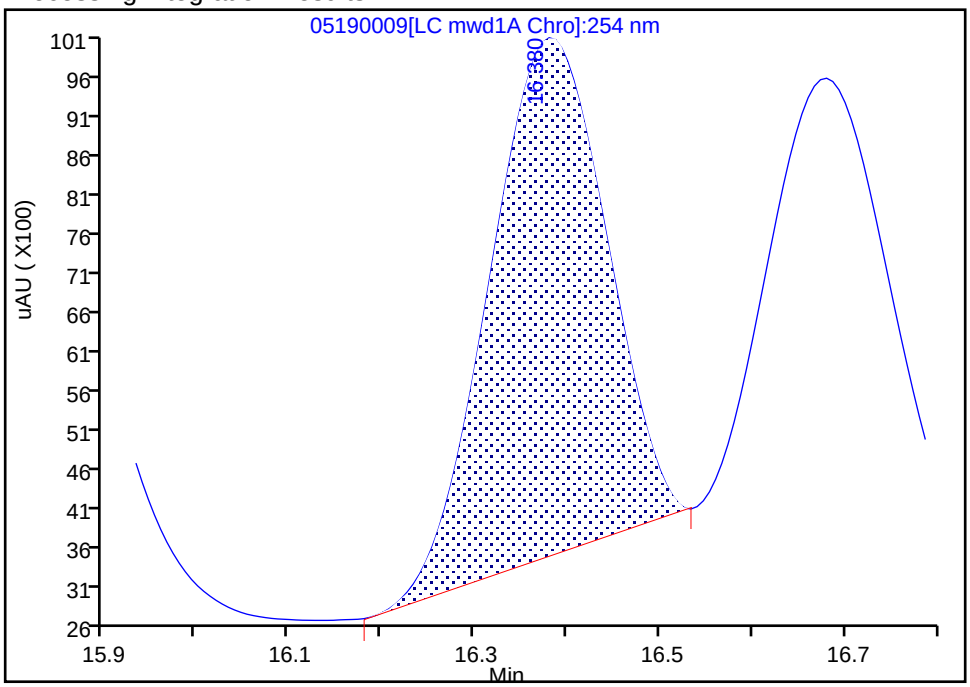
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190009.D				
Injection Date:	19-May-2023 16:43:40	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV ADD				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit 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

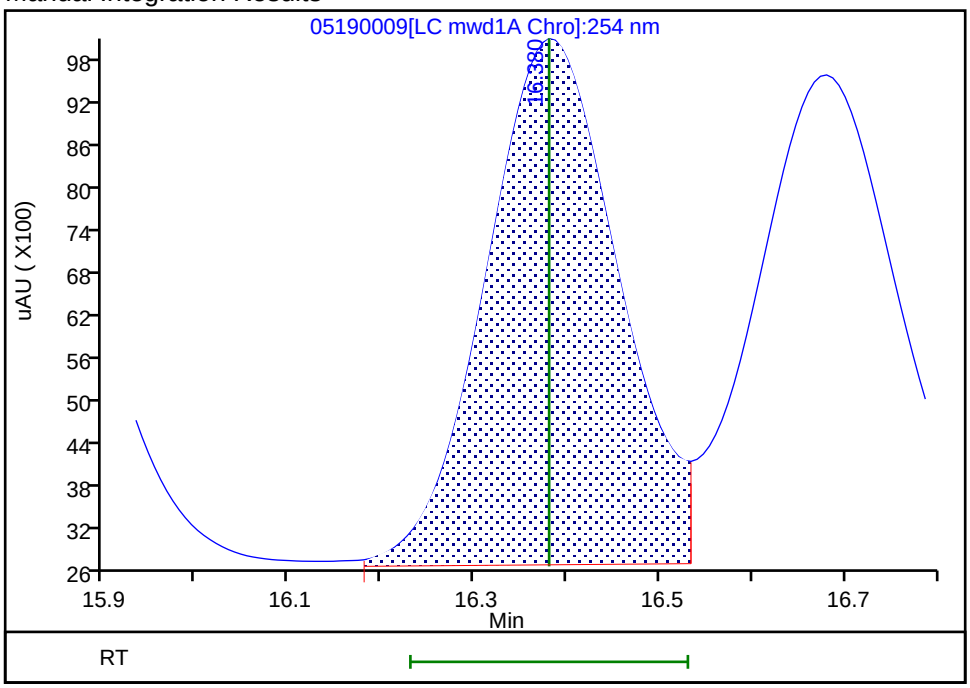
Processing Integration Results

RT: 16.38
Area: 57889
Amount: 0.196761
Amount Units: ug/ml



Manual Integration Results

RT: 16.38
Area: 73673
Amount: 0.250409
Amount Units: ug/ml



Reviewer: LV5D, 19-May-2023 17:29:53 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

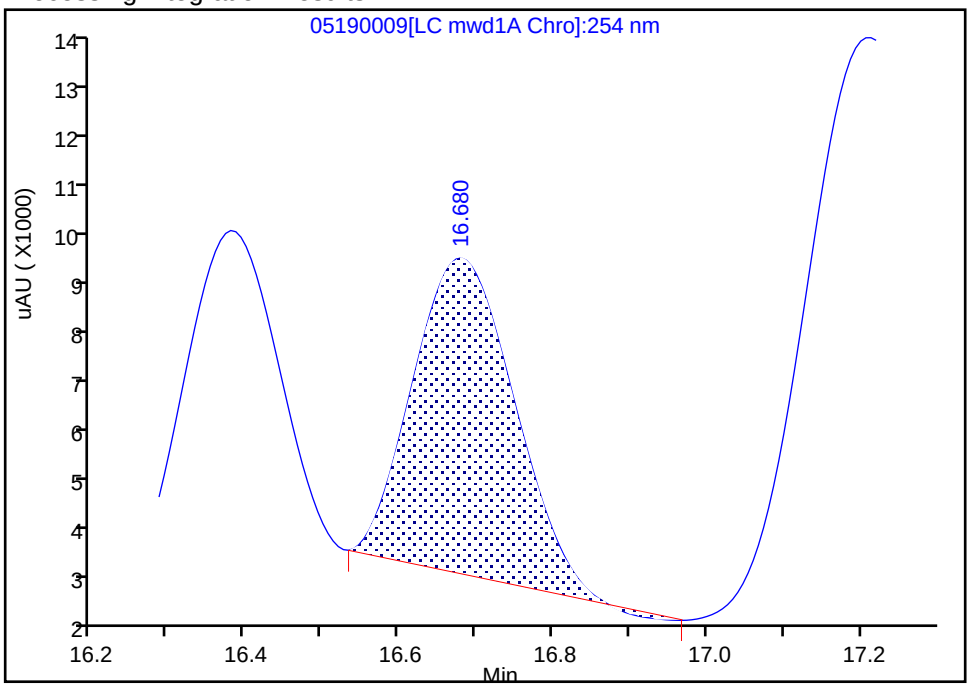
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190009.D				
Injection Date:	19-May-2023 16:43:40	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV ADD				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

18 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

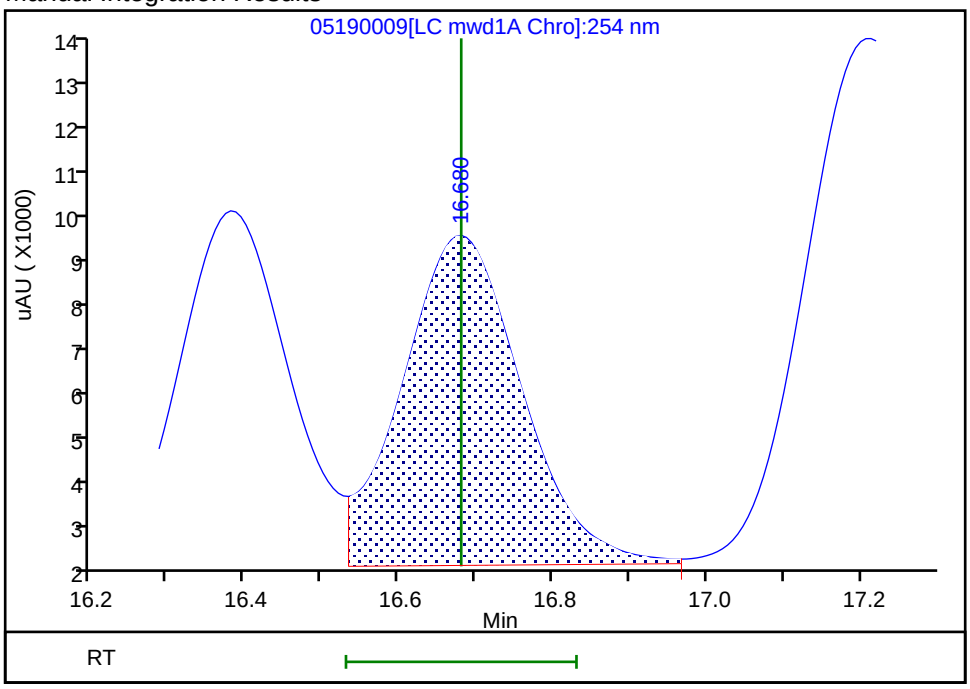
Processing Integration Results

RT: 16.68
Area: 55295
Amount: 0.187673
Amount Units: ug/ml



Manual Integration Results

RT: 16.68
Area: 73848
Amount: 0.250643
Amount Units: ug/ml



Reviewer: LV5D, 19-May-2023 17:29:53 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

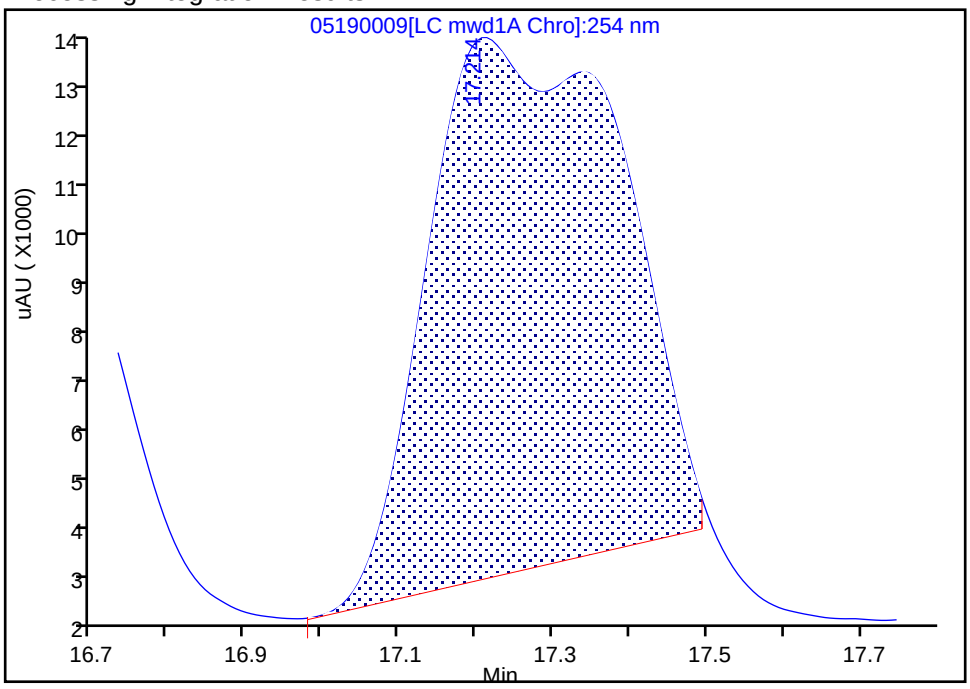
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190009.D				
Injection Date:	19-May-2023 16:43:40	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV ADD				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit 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

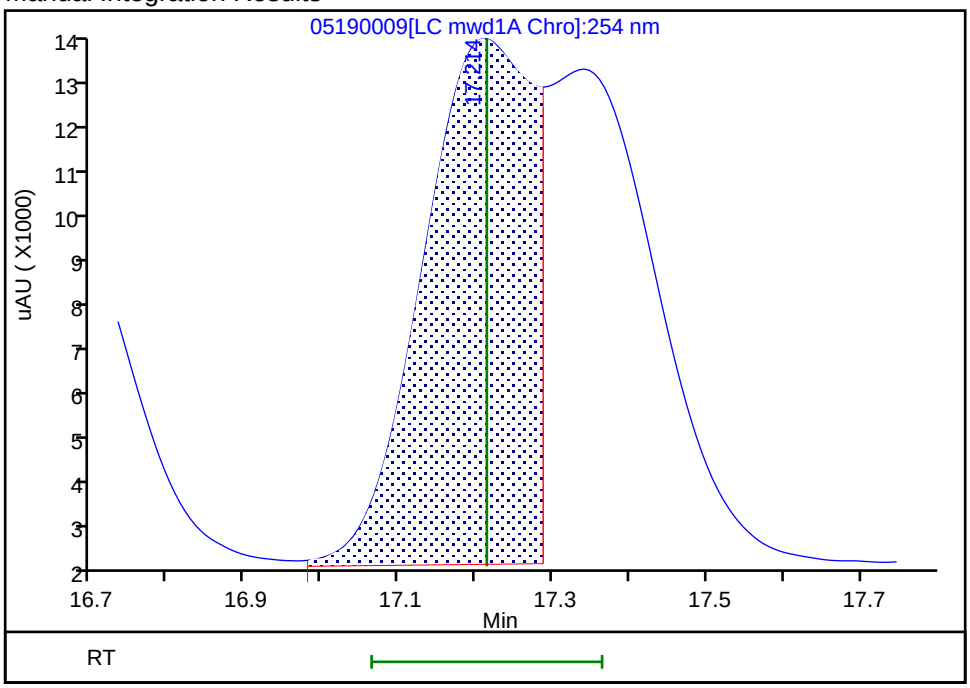
Processing Integration Results

RT: 17.21
Area: 176359
Amount: 0.412112
Amount Units: ug/ml



Manual Integration Results

RT: 17.21
Area: 108583
Amount: 0.253734
Amount Units: ug/ml



Reviewer: LV5D, 19-May-2023 17:29:53 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

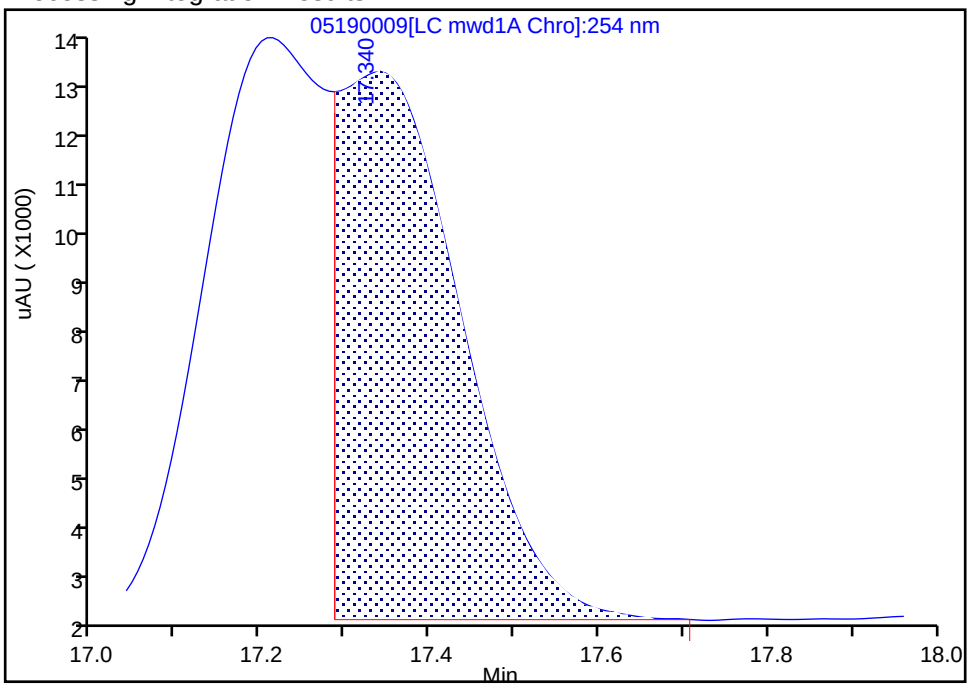
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190009.D				
Injection Date:	19-May-2023 16:43:40	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV ADD				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit 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

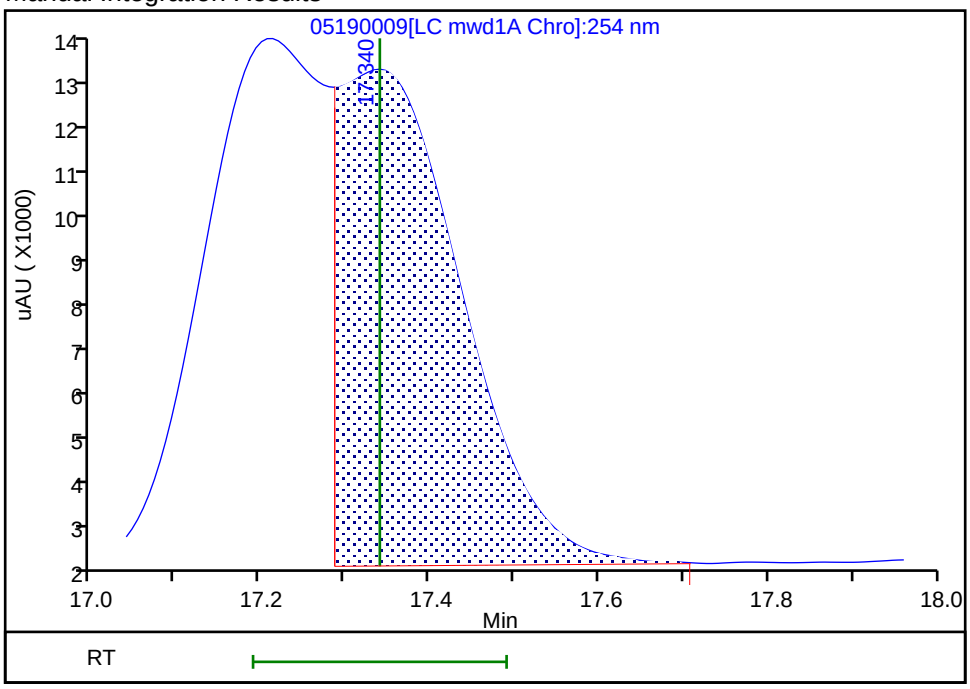
Processing Integration Results

RT: 17.34
Area: 100813
Amount: 0.248496
Amount Units: ug/ml



Manual Integration Results

RT: 17.34
Area: 101884
Amount: 0.251136
Amount Units: ug/ml



Reviewer: LV5D, 19-May-2023 17:29:53 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613172/9 | Calibration Date: 05/19/2023 16:43

Instrument ID: CHHPLC_X5 | Calib Start Date: 04/29/2023 00:13

GC Column: Luna-phenylhex ID: 4.60(mm) | Calib End Date: 04/29/2023 04:18

Lab File ID: 05190009.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,6-diamino-4-nitrotoluene	Ave	403300	422836		262	250	4.8	20.0
2,4-diamino-6-nitrotoluene	Ave	225281	254768		283	250	13.1	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613172/9 Calibration Date: 05/19/2023 16:43

Instrument ID: CHHPLC_X5 Calib Start Date: 04/29/2023 00:13

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 04/29/2023 04:18

Lab File ID: 05190009.D

Analyte	RT	RT WINDOW	
		FROM	TO
2,6-diamino-4-nitrotoluene	4.21	4.06	4.36
2,4-diamino-6-nitrotoluene	4.77	4.62	4.92

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190009.D
Lims ID: CCV ADD
Client ID:
Sample Type: CCV
Inject. Date: 19-May-2023 16:43:40 ALS Bottle#: 7 Worklist Smp#: 9
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV ADD
Operator ID: JZ/JG Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub11

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 20-May-2023 11:53:06 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1663

First Level Reviewer: LV5D Date: 19-May-2023 17:29:58

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 2,6-diamino-4-nitrotoluene	1	4.214	4.214	0.000	105709	0.2500	0.2621	
	2 2,4-diamino-6-nitrotoluene	1	4.767	4.767	0.000	63692	0.2500	0.2827	
	3 TNX	1	5.221	5.221	0.000	103855	0.2508	0.2634	
	4 DNX	1	6.067	6.067	0.000	73014	0.2503	0.2635	
	5 HMX	1	6.707	6.707	0.000	48031	0.2500	0.2545	
	6 MNX	1	7.567	7.567	0.000	78095	0.2918	0.2978	
	7 2,4,6-Trinitrophenol	1	8.421	8.421	0.000	41310	0.2500	0.2551	
	8 RDX	1	8.954	8.954	0.000	59260	0.2500	0.2717	
	9 Nitrobenzene	1	11.454	11.454	0.000	100201	0.2500	0.2512	
$	10 1,2-Dinitrobenzene	1	12.414	12.414	0.000	69875	0.2500	0.2489	
	11 3,5-Dinitroaniline	1	14.267	14.267	0.000	117741	0.2500	0.2635	M
	12 1,3-Dinitrobenzene	1	14.534	14.534	0.000	155585	0.2500	0.2472	M
	13 Nitroglycerin	2	15.054	15.054	0.000	335506	2.50	2.49	
	14 o-Nitrotoluene	1	15.607	15.607	0.000	63275	0.2500	0.2562	M
	16 p-Nitrotoluene	1	15.834	15.834	0.000	57109	0.2500	0.2510	M
	17 4-Amino-2,6-dinitrotoluene	1	16.380	16.380	0.000	73673	0.2500	0.2504	M
	18 m-Nitrotoluene	1	16.680	16.680	0.000	73848	0.2500	0.2506	M
	19 2-Amino-4,6-dinitrotoluene	1	17.214	17.214	0.000	108583	0.2500	0.2537	M
	20 1,3,5-Trinitrobenzene	1	17.340	17.340	0.000	101884	0.2500	0.2511	M
	21 2,6-Dinitrotoluene	1	18.487	18.487	0.000	71745	0.2500	0.2460	
	22 2,4-Dinitrotoluene	1	18.940	18.940	0.000	145830	0.2500	0.2495	
	23 Tetryl	1	22.214	22.214	0.000	70084	0.2500	0.2461	
	24 2,4,6-Trinitrotoluene	1	23.014	23.014	0.000	106572	0.2500	0.2428	
	25 PETN	2	24.261	24.261	0.000	342075	2.50	2.38	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00013	Amount Added:	12.50	Units: uL
8330IntermStk_00076	Amount Added:	25.00	Units: uL
8330_ADDs_00037	Amount Added:	12.50	Units: uL

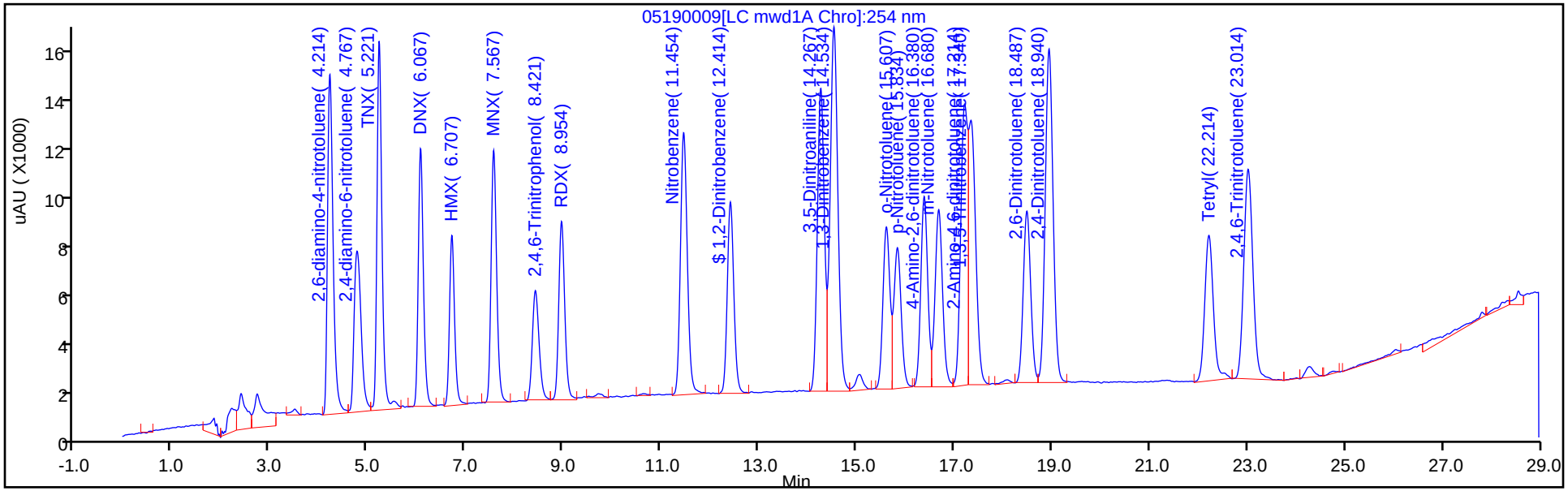
Report Date: 20-May-2023 11:53:07 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

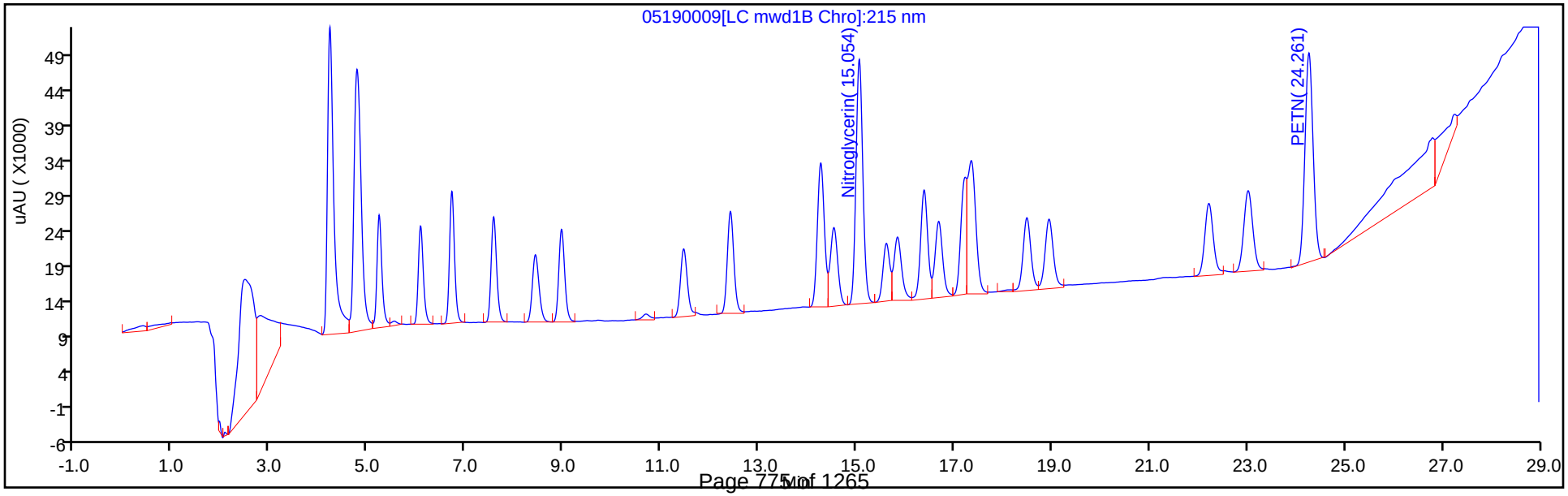
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190009.D

Injection Date:	19-May-2023 16:43:40	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	CCV ADD			Worklist Smp#:	9
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



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613172/20 | Calibration Date: 05/19/2023 23:43

Instrument ID: CHHPLC_X5 | Calib Start Date: 04/28/2023 18:24

GC Column: Luna-phenylhex ID: 4.60(mm) | Calib End Date: 04/28/2023 23:03

Lab File ID: 05190020.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	394332	419829		267	251	6.5	20.0
DNX	Ave	277072	306773		277	250	10.7	20.0
HMX	Lin2		194936		258	250	3.3	20.0
MNX	Ave	262267	271253		302	292	3.4	20.0
Picric acid	Lin2		166952		258	250	3.1	20.0
RDX	Lin2		238292		273	250	9.3	20.0
Nitrobenzene	Ave	398834	399912		251	250	0.3	20.0
3,5-Dinitroaniline	Lin2		476316		266	250	6.6	20.0
1,3-Dinitrobenzene	Ave	629351	625748		249	250	-0.6	20.0
Nitroglycerin	Ave	134735	136632		2540	2500	1.4	20.0
2-Nitrotoluene	Ave	246963	245456		248	250	-0.6	20.0
4-Nitrotoluene	Ave	227490	222324		244	250	-2.3	20.0
4-Amino-2,6-dinitrotoluene	Ave	294210	290532		247	250	-1.3	20.0
3-Nitrotoluene	Ave	294634	286084		243	250	-2.9	20.0
2-Amino-4,6-dinitrotoluene	Ave	427939	414532		242	250	-3.1	20.0
1,3,5-Trinitrobenzene	Ave	405692	423340		261	250	4.3	20.0
2,6-Dinitrotoluene	Ave	291675	291064		249	250	-0.2	20.0
2,4-Dinitrotoluene	Ave	584463	592868		254	250	1.4	20.0
Tetryl	Ave	284731	286364		251	250	0.6	20.0
2,4,6-Trinitrotoluene	Ave	438876	438492		250	250	-0.0	20.0
PETN	Ave	143938	143382		2490	2500	-0.4	20.0
1,2-Dinitrobenzene	Ave	280697	280196		250	250	-0.2	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613172/20 Calibration Date: 05/19/2023 23:43

Instrument ID: CHHPLC_X5 Calib Start Date: 04/28/2023 18:24

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 04/28/2023 23:03

Lab File ID: 05190020.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.23	5.07	5.37
DNX	6.07	5.92	6.22
HMX	6.71	6.56	6.86
MNX	7.57	7.42	7.72
Picric acid	8.40	8.27	8.57
RDX	8.96	8.80	9.10
Nitrobenzene	11.47	11.30	11.60
3,5-Dinitroaniline	14.27	14.12	14.42
1,3-Dinitrobenzene	14.53	14.38	14.68
Nitroglycerin	15.04	14.90	15.20
2-Nitrotoluene	15.59	15.46	15.76
4-Nitrotoluene	15.82	15.68	15.98
4-Amino-2,6-dinitrotoluene	16.36	16.23	16.53
3-Nitrotoluene	16.66	16.53	16.83
2-Amino-4,6-dinitrotoluene	17.19	17.06	17.36
1,3,5-Trinitrobenzene	17.33	17.19	17.49
2,6-Dinitrotoluene	18.46	18.34	18.64
2,4-Dinitrotoluene	18.91	18.79	19.09
Tetryl	22.17	22.06	22.36
2,4,6-Trinitrotoluene	22.98	22.86	23.16
PETN	24.21	24.11	24.41
1,2-Dinitrobenzene	12.42	12.26	12.56

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190020.D
Lims ID: CCV ADD
Client ID:
Sample Type: CCV
Inject. Date: 19-May-2023 23:43:05 ALS Bottle#: 7 Worklist Smp#: 20
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV ADD
Operator ID: JZ/JG Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub11

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 20-May-2023 11:53:11 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1663

First Level Reviewer: LV5D Date: 20-May-2023 11:52:02

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 2,6-diamino-4-nitrotoluene	1	4.213	4.214	-0.001	107452	0.2500	0.2664	
	2 2,4-diamino-6-nitrotoluene	1	4.773	4.767	0.006	64609	0.2500	0.2868	
	3 TNX	1	5.226	5.221	0.005	105272	0.2508	0.2670	
	4 DNX	1	6.073	6.067	0.006	76770	0.2503	0.2771	
	5 HMX	1	6.713	6.707	0.006	48734	0.2500	0.2583	
	6 MNX	1	7.566	7.567	-0.001	79138	0.2918	0.3017	
	7 2,4,6-Trinitrophenol	1	8.399	8.421	-0.022	41738	0.2500	0.2578	
	8 RDX	1	8.959	8.954	0.005	59573	0.2500	0.2731	
	9 Nitrobenzene	1	11.466	11.454	0.012	99978	0.2500	0.2507	
$	10 1,2-Dinitrobenzene	1	12.419	12.414	0.005	70049	0.2500	0.2496	
	11 3,5-Dinitroaniline	1	14.266	14.267	-0.001	119079	0.2500	0.2665	M
	12 1,3-Dinitrobenzene	1	14.533	14.534	-0.001	156437	0.2500	0.2486	M
	13 Nitroglycerin	2	15.039	15.054	-0.015	341579	2.50	2.54	
	14 o-Nitrotoluene	1	15.593	15.607	-0.014	61364	0.2500	0.2485	M
	16 p-Nitrotoluene	1	15.819	15.834	-0.015	55581	0.2500	0.2443	M
	17 4-Amino-2,6-dinitrotoluene	1	16.359	16.380	-0.021	72633	0.2500	0.2469	M
	18 m-Nitrotoluene	1	16.659	16.680	-0.021	71521	0.2500	0.2427	M
	19 2-Amino-4,6-dinitrotoluene	1	17.186	17.214	-0.028	103633	0.2500	0.2422	M
	20 1,3,5-Trinitrobenzene	1	17.326	17.340	-0.014	105835	0.2500	0.2609	M
	21 2,6-Dinitrotoluene	1	18.459	18.487	-0.028	72766	0.2500	0.2495	
	22 2,4-Dinitrotoluene	1	18.913	18.940	-0.027	148217	0.2500	0.2536	
	23 Tetryl	1	22.173	22.214	-0.041	71591	0.2500	0.2514	
	24 2,4,6-Trinitrotoluene	1	22.979	23.014	-0.035	109623	0.2500	0.2498	
	25 PETN	2	24.206	24.261	-0.055	358455	2.50	2.49	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00013	Amount Added:	12.50	Units: uL
8330IntermStk_00076	Amount Added:	25.00	Units: uL
8330_ADDs_00037	Amount Added:	12.50	Units: uL

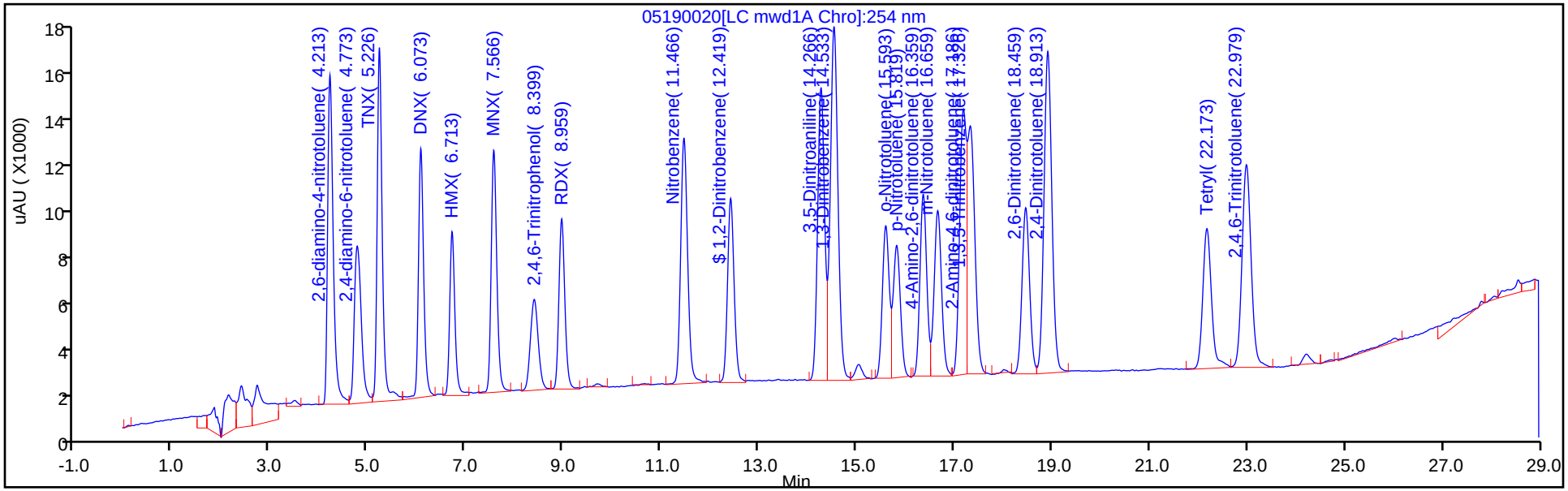
Report Date: 20-May-2023 11:53:11 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

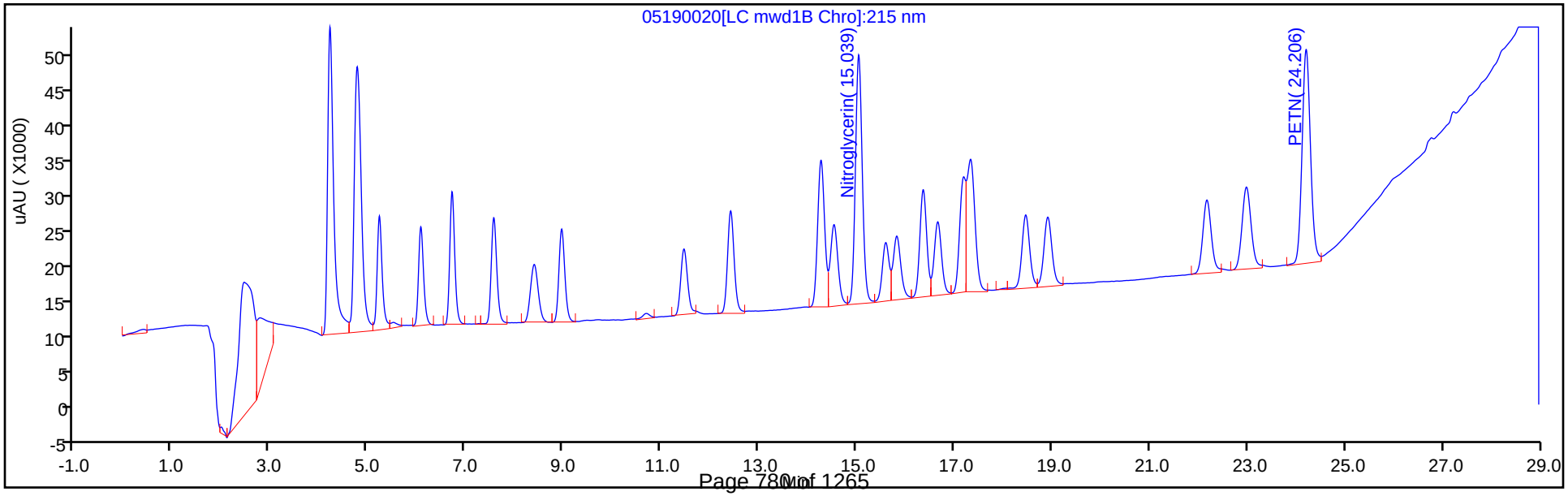
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190020.D

Injection Date:	19-May-2023 23:43:05	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	CCV ADD			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



Manual Integration/User Assign Peak Report

Eurofins Denver

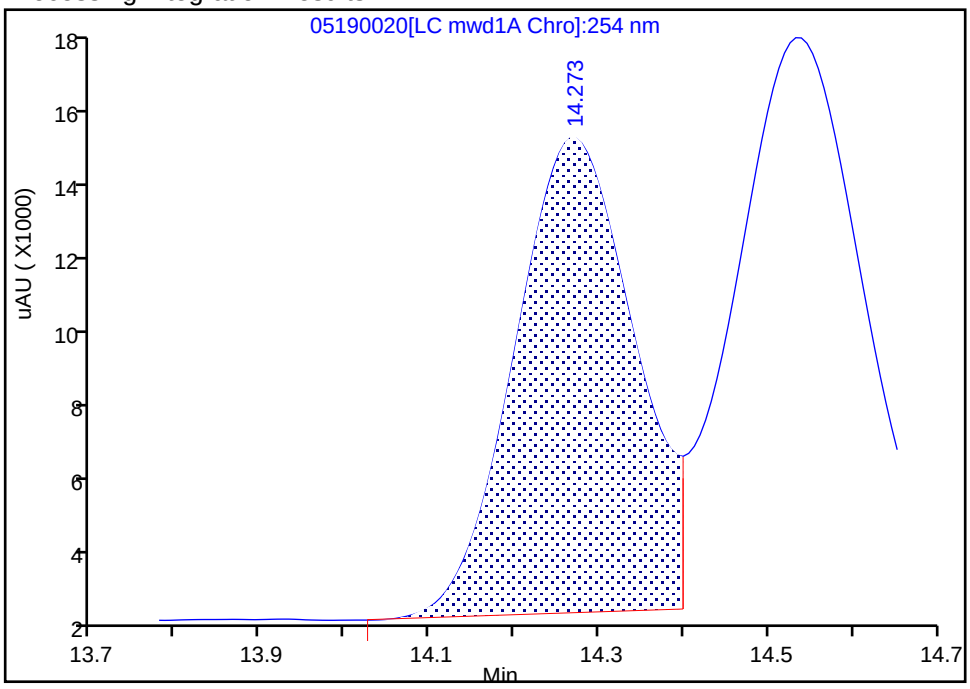
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190020.D				
Injection Date:	19-May-2023 23:43:05	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV ADD				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

11 3,5-Dinitroaniline, CAS: 618-87-1

Signal: 1

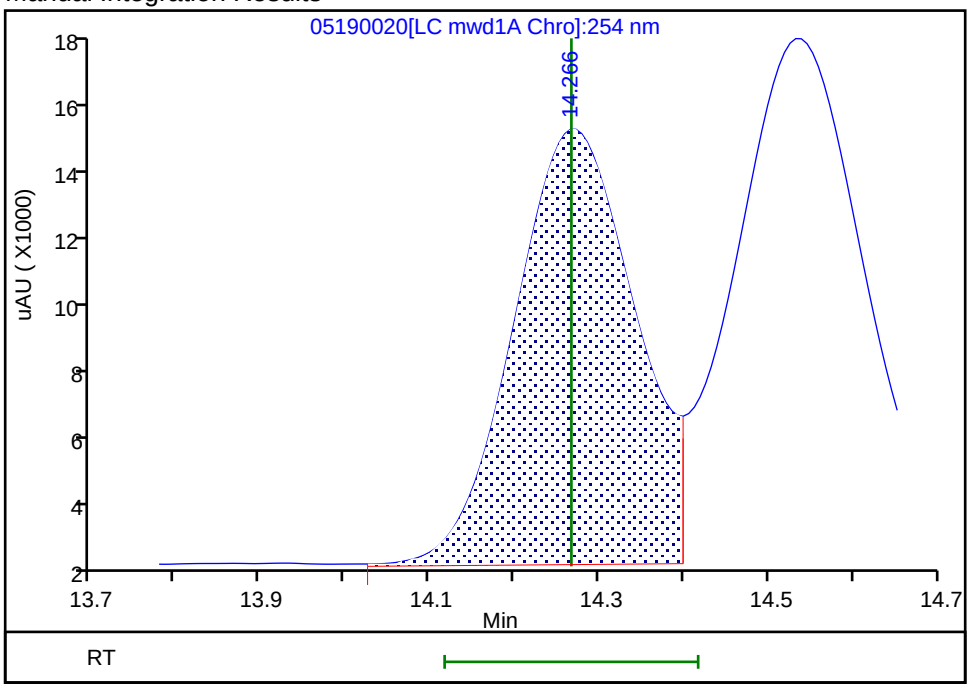
Processing Integration Results

RT: 14.27
Area: 115999
Amount: 0.259558
Amount Units: ug/ml



Manual Integration Results

RT: 14.27
Area: 119079
Amount: 0.266486
Amount Units: ug/ml



Reviewer: LV5D, 20-May-2023 11:52:01 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

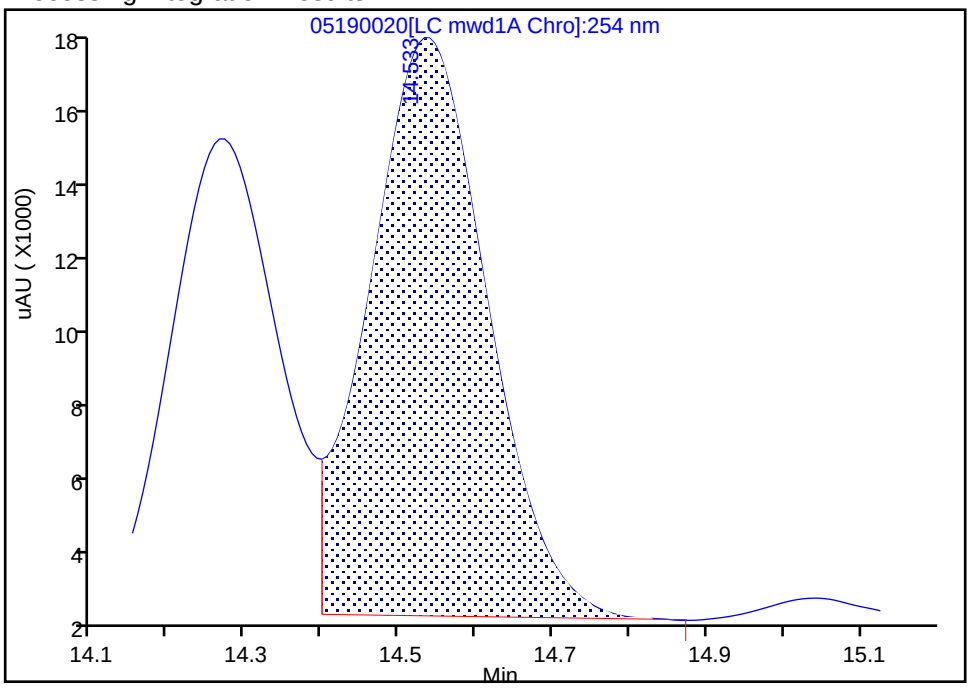
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190020.D				
Injection Date:	19-May-2023 23:43:05	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV ADD				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

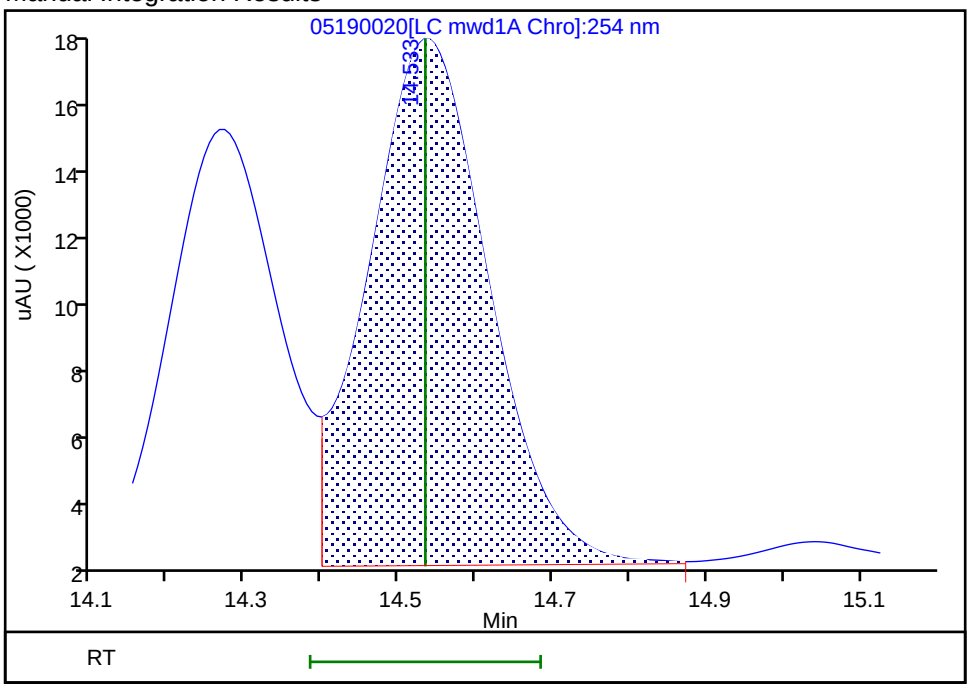
Processing Integration Results

RT: 14.53
Area: 152149
Amount: 0.241755
Amount Units: ug/ml



Manual Integration Results

RT: 14.53
Area: 156437
Amount: 0.248569
Amount Units: ug/ml



Reviewer: LV5D, 20-May-2023 11:52:01 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

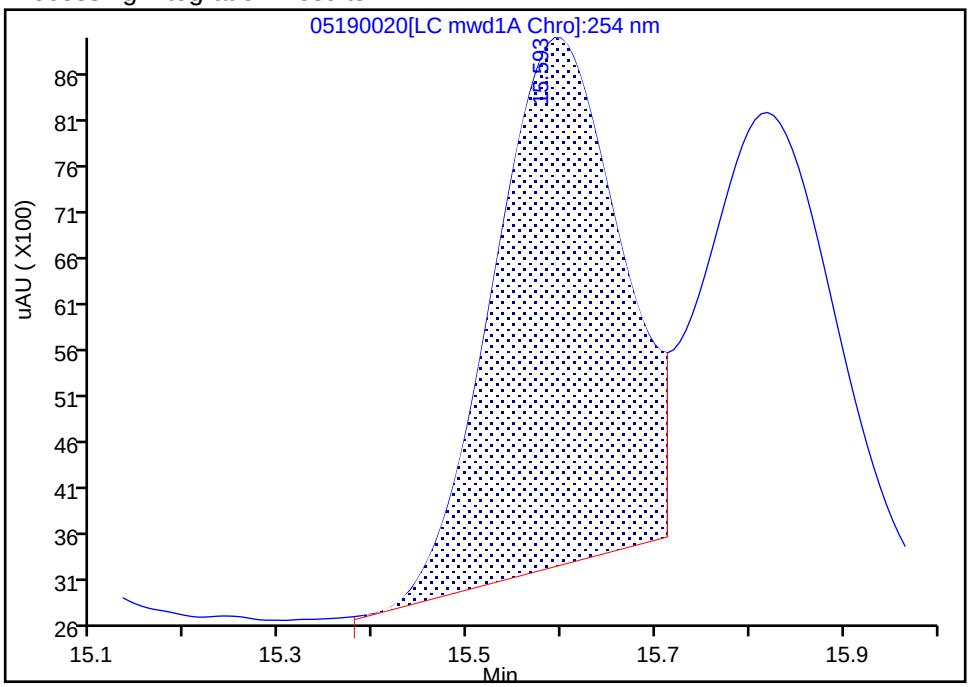
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190020.D				
Injection Date:	19-May-2023 23:43:05	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV ADD				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

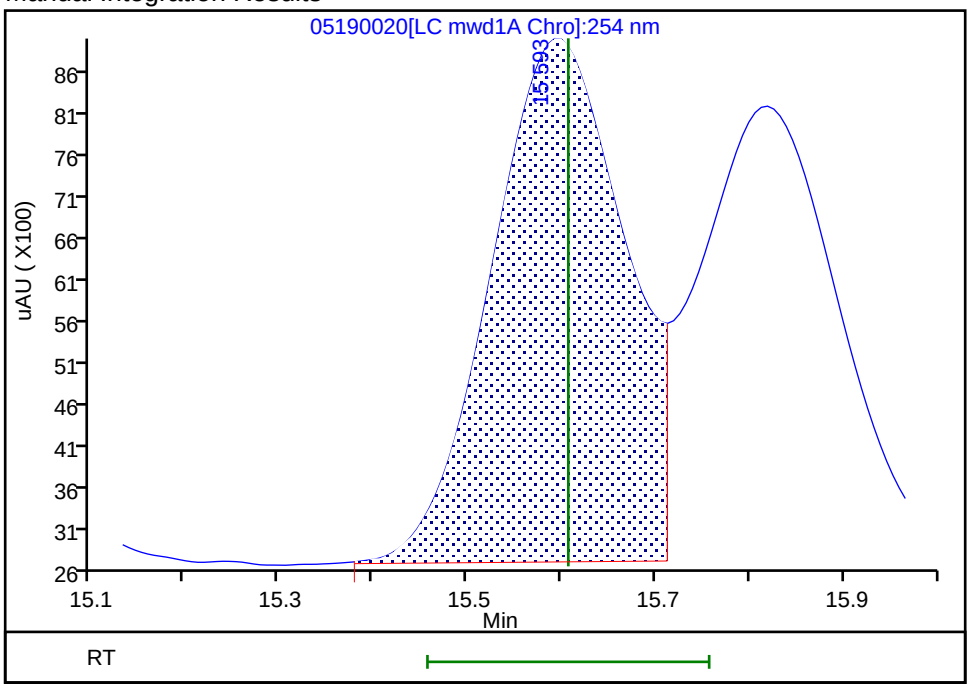
Processing Integration Results

RT: 15.59
Area: 53104
Amount: 0.215028
Amount Units: ug/ml



Manual Integration Results

RT: 15.59
Area: 61364
Amount: 0.248474
Amount Units: ug/ml



Reviewer: LV5D, 20-May-2023 11:52:01 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

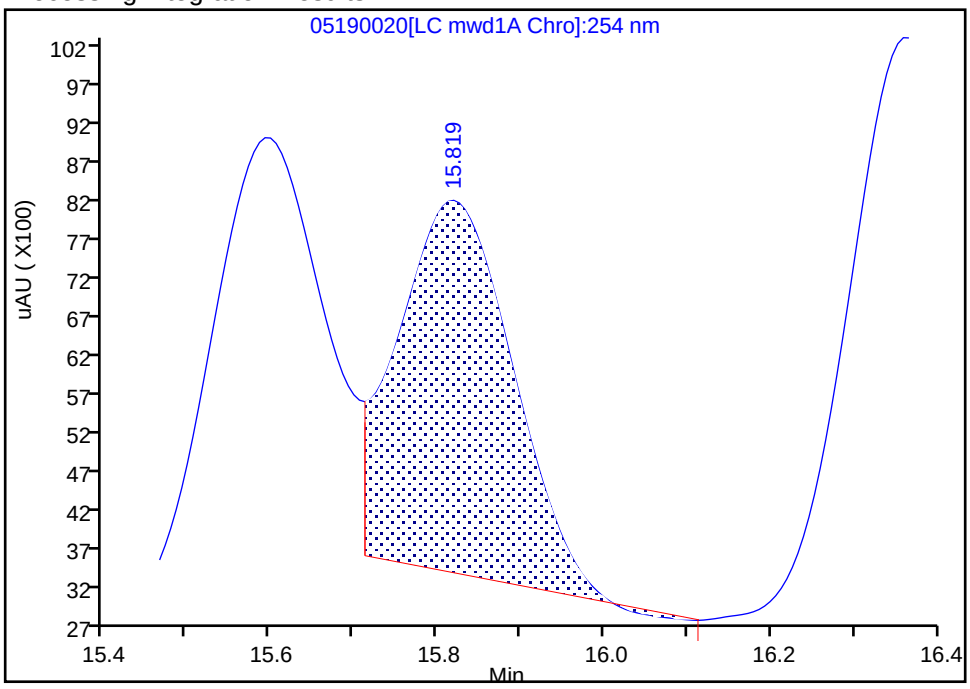
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190020.D				
Injection Date:	19-May-2023 23:43:05	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV ADD				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

16 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

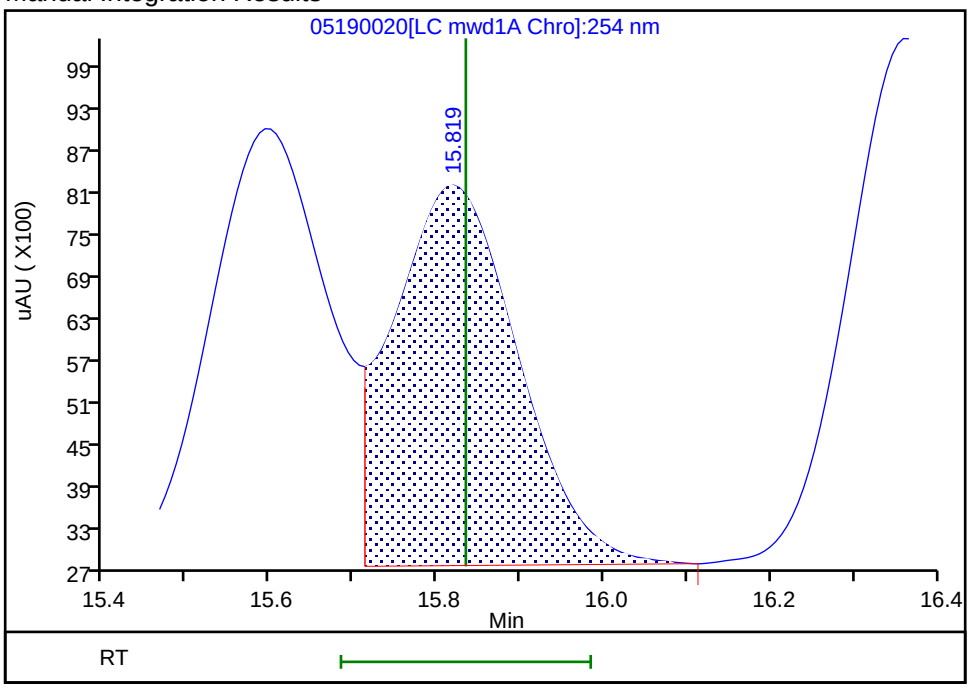
Processing Integration Results

RT: 15.82
Area: 46377
Amount: 0.203864
Amount Units: ug/ml



Manual Integration Results

RT: 15.82
Area: 55581
Amount: 0.244323
Amount Units: ug/ml



Reviewer: LV5D, 20-May-2023 11:52:01 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

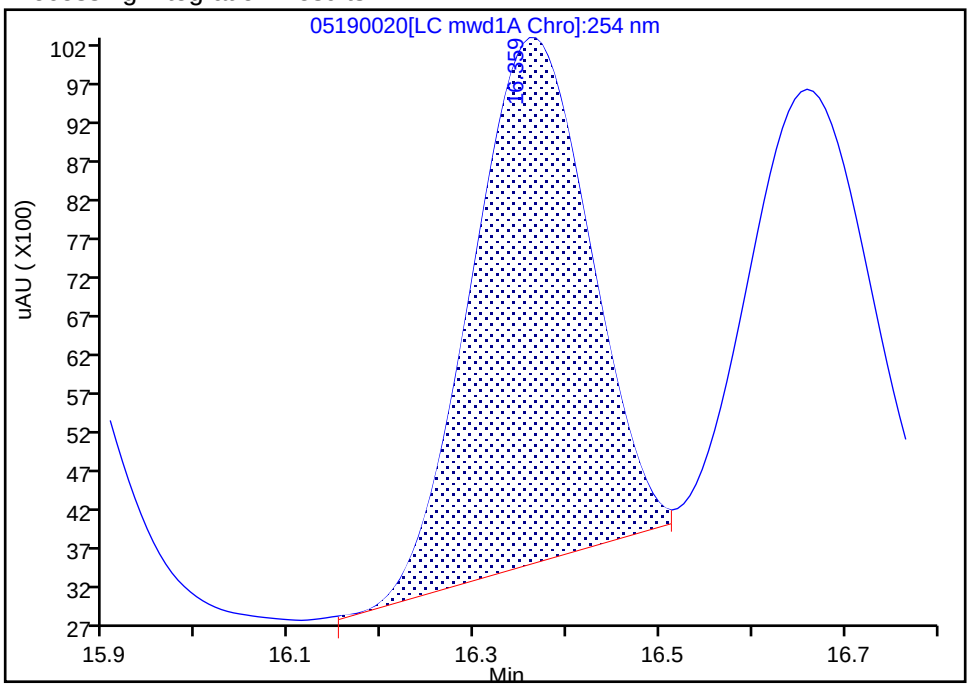
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190020.D				
Injection Date:	19-May-2023 23:43:05	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV ADD				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

17 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

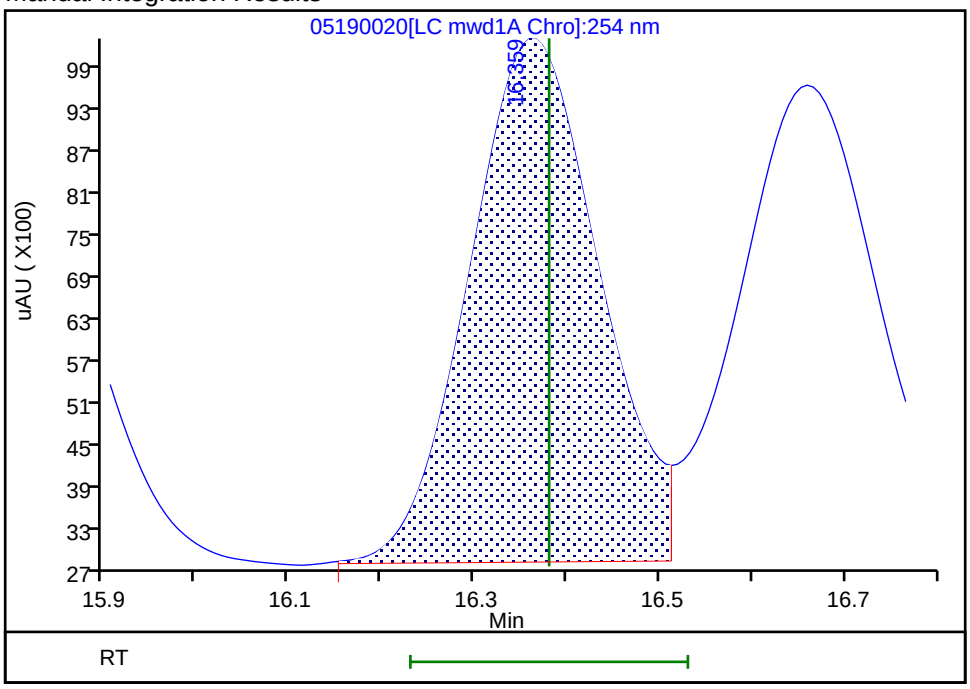
Processing Integration Results

RT: 16.36
Area: 59878
Amount: 0.203521
Amount Units: ug/ml



Manual Integration Results

RT: 16.36
Area: 72633
Amount: 0.246875
Amount Units: ug/ml



Reviewer: LV5D, 20-May-2023 11:52:01 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

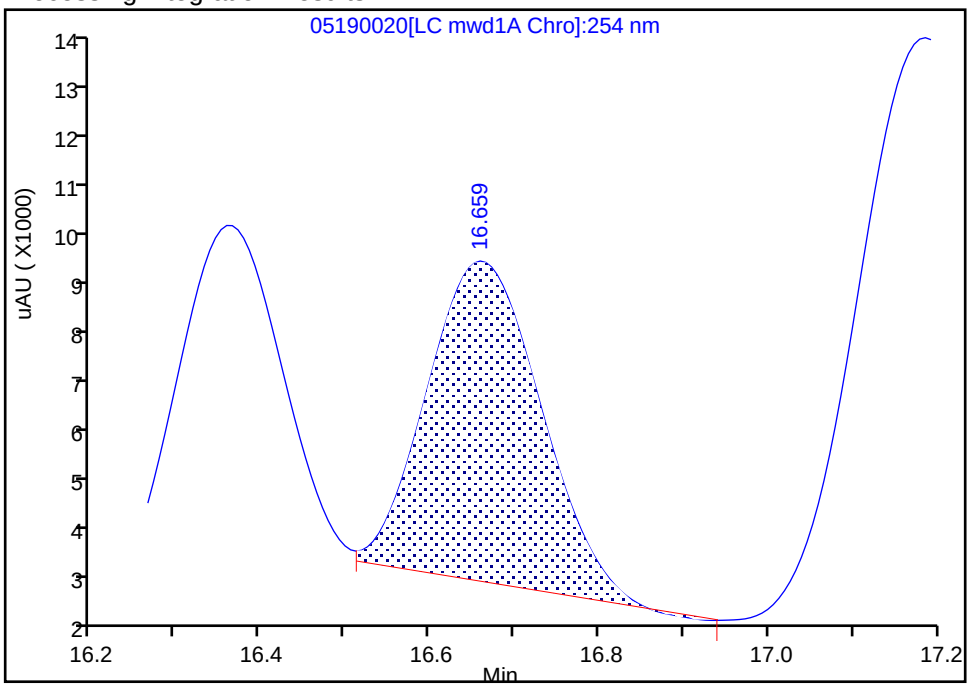
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190020.D				
Injection Date:	19-May-2023 23:43:05	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV ADD				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

18 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

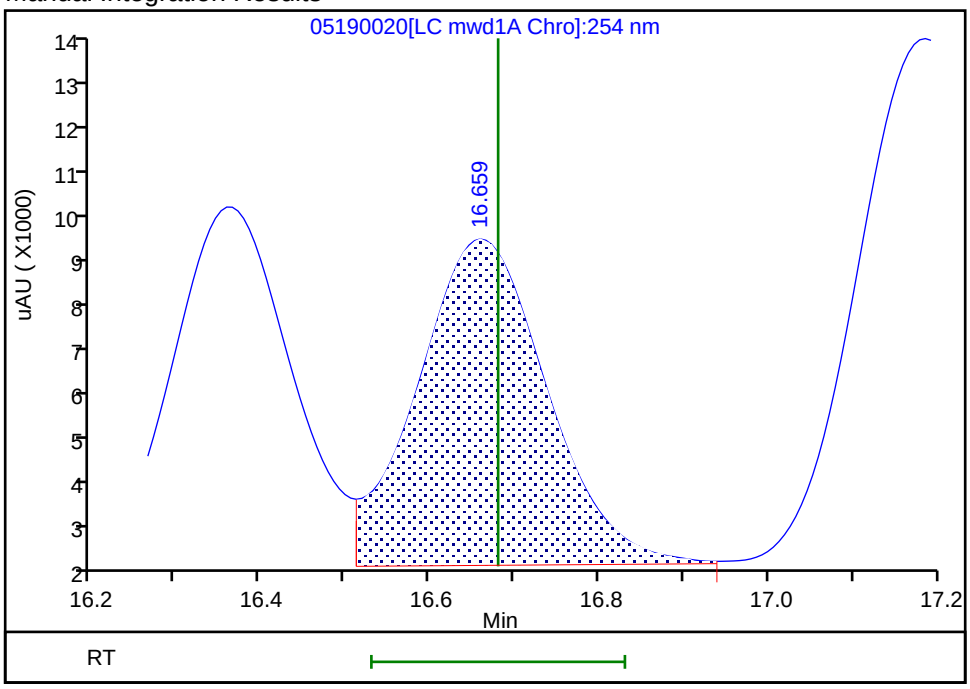
Processing Integration Results

RT: 16.66
Area: 56289
Amount: 0.191047
Amount Units: ug/ml



Manual Integration Results

RT: 16.66
Area: 71521
Amount: 0.242745
Amount Units: ug/ml



Reviewer: LV5D, 20-May-2023 11:52:01 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

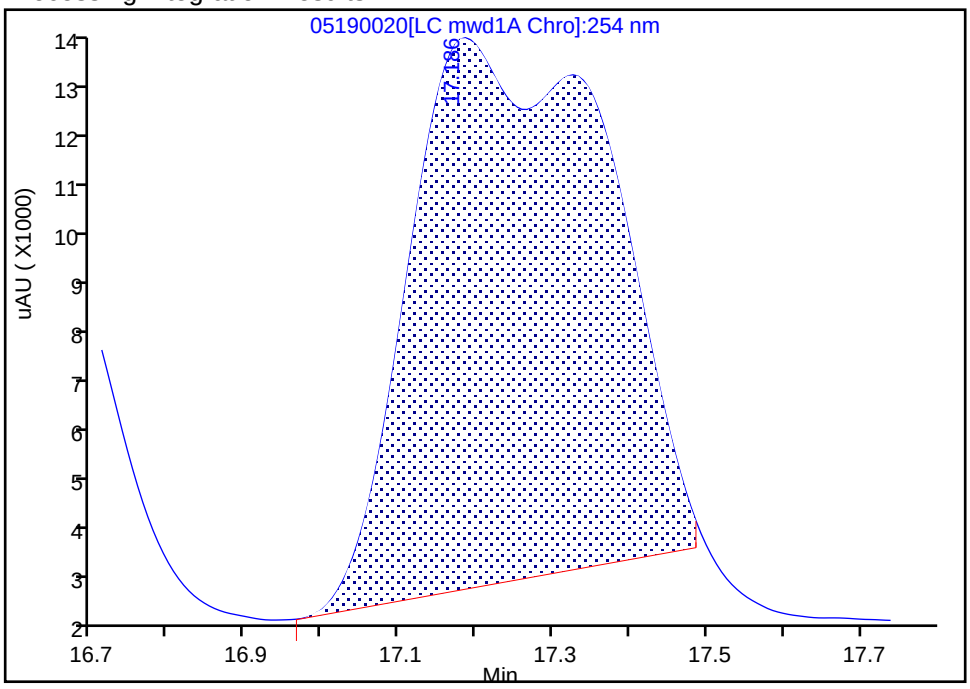
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190020.D				
Injection Date:	19-May-2023 23:43:05	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV ADD				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

19 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

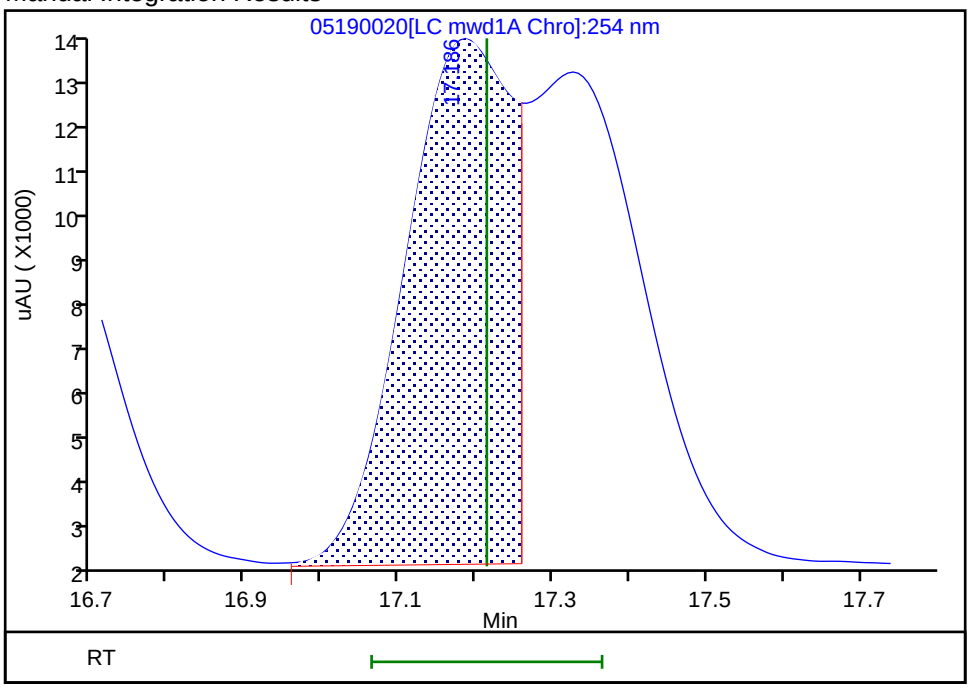
Processing Integration Results

RT: 17.19
Area: 183461
Amount: 0.428708
Amount Units: ug/ml



Manual Integration Results

RT: 17.19
Area: 103633
Amount: 0.242167
Amount Units: ug/ml



Reviewer: LV5D, 20-May-2023 11:52:01 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

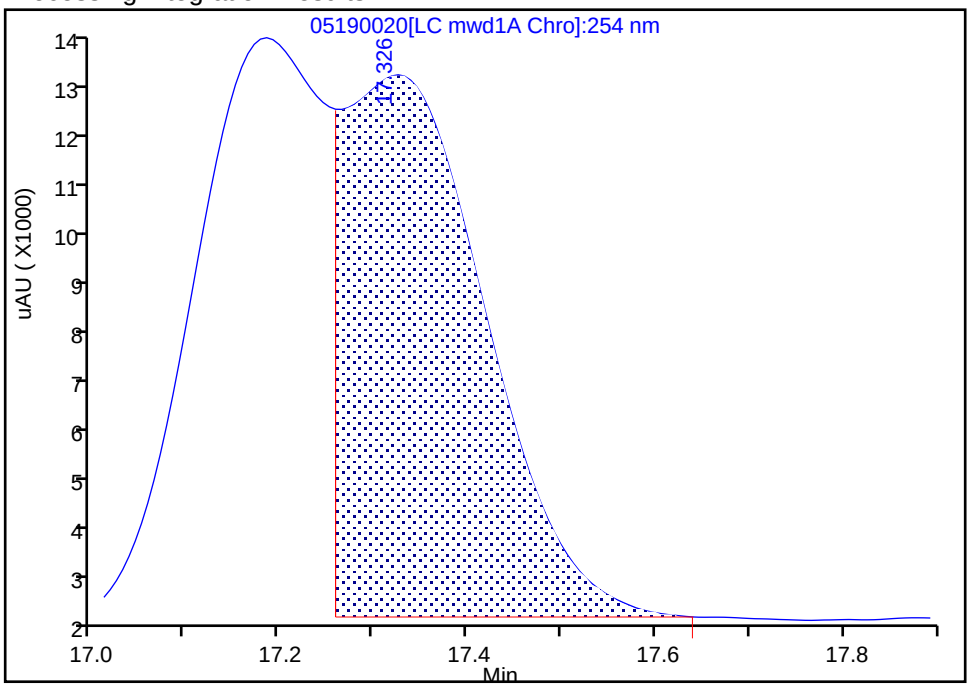
Data File:	\\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190020.D				
Injection Date:	19-May-2023 23:43:05	Instrument ID:	CHHPLC_X5		
Lims ID:	CCV ADD				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X5_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC mwd1A, 254 nm		

20 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

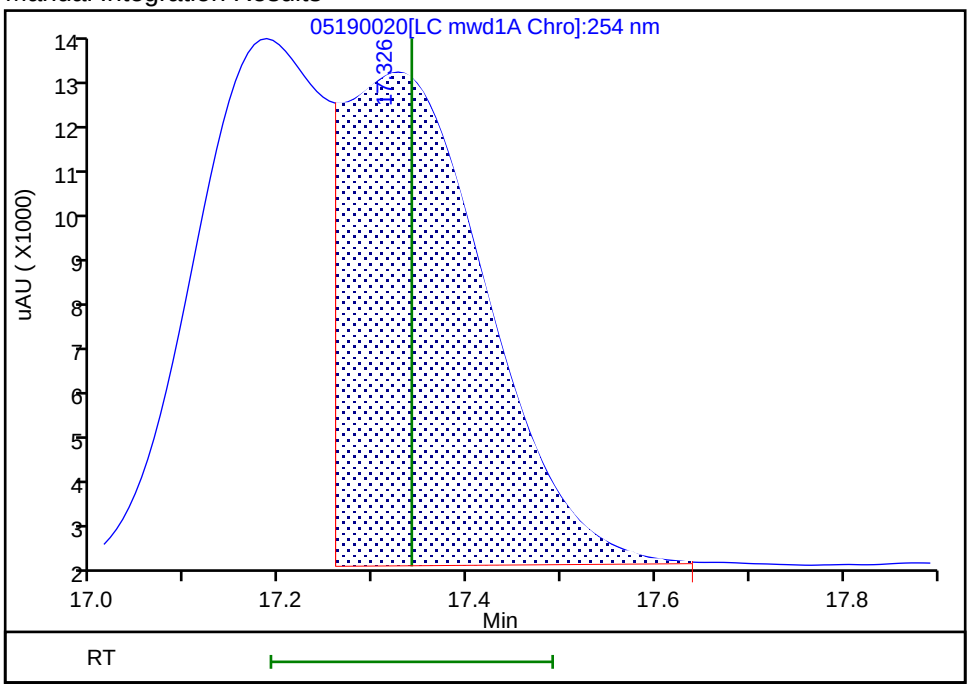
Processing Integration Results

RT: 17.33
Area: 105026
Amount: 0.258881
Amount Units: ug/ml



Manual Integration Results

RT: 17.33
Area: 105835
Amount: 0.260875
Amount Units: ug/ml



Reviewer: LV5D, 20-May-2023 11:52:01 -06:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613172/20 | Calibration Date: 05/19/2023 23:43

Instrument ID: CHHPLC_X5 | Calib Start Date: 04/29/2023 00:13

GC Column: Luna-phenylhex ID: 4.60(mm) | Calib End Date: 04/29/2023 04:18

Lab File ID: 05190020.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,6-diamino-4-nitrotoluene	Ave	403300	429808		266	250	6.6	20.0
2,4-diamino-6-nitrotoluene	Ave	225281	258436		287	250	14.7	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613172/20 Calibration Date: 05/19/2023 23:43

Instrument ID: CHHPLC_X5 Calib Start Date: 04/29/2023 00:13

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 04/29/2023 04:18

Lab File ID: 05190020.D

Analyte	RT	RT WINDOW	
		FROM	TO
2,6-diamino-4-nitrotoluene	4.21	4.06	4.36
2,4-diamino-6-nitrotoluene	4.77	4.62	4.92

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190020.D
Lims ID: CCV ADD
Client ID:
Sample Type: CCV
Inject. Date: 19-May-2023 23:43:05 ALS Bottle#: 7 Worklist Smp#: 20
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV ADD
Operator ID: JZ/JG Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub11

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 20-May-2023 11:53:11 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1663

First Level Reviewer: LV5D Date: 20-May-2023 11:52:02

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 2,6-diamino-4-nitrotoluene	1	4.213	4.214	-0.001	107452	0.2500	0.2664	
	2 2,4-diamino-6-nitrotoluene	1	4.773	4.767	0.006	64609	0.2500	0.2868	
	3 TNX	1	5.226	5.221	0.005	105272	0.2508	0.2670	
	4 DNX	1	6.073	6.067	0.006	76770	0.2503	0.2771	
	5 HMX	1	6.713	6.707	0.006	48734	0.2500	0.2583	
	6 MNX	1	7.566	7.567	-0.001	79138	0.2918	0.3017	
	7 2,4,6-Trinitrophenol	1	8.399	8.421	-0.022	41738	0.2500	0.2578	
	8 RDX	1	8.959	8.954	0.005	59573	0.2500	0.2731	
	9 Nitrobenzene	1	11.466	11.454	0.012	99978	0.2500	0.2507	
$	10 1,2-Dinitrobenzene	1	12.419	12.414	0.005	70049	0.2500	0.2496	
	11 3,5-Dinitroaniline	1	14.266	14.267	-0.001	119079	0.2500	0.2665	M
	12 1,3-Dinitrobenzene	1	14.533	14.534	-0.001	156437	0.2500	0.2486	M
	13 Nitroglycerin	2	15.039	15.054	-0.015	341579	2.50	2.54	
	14 o-Nitrotoluene	1	15.593	15.607	-0.014	61364	0.2500	0.2485	M
	16 p-Nitrotoluene	1	15.819	15.834	-0.015	55581	0.2500	0.2443	M
	17 4-Amino-2,6-dinitrotoluene	1	16.359	16.380	-0.021	72633	0.2500	0.2469	M
	18 m-Nitrotoluene	1	16.659	16.680	-0.021	71521	0.2500	0.2427	M
	19 2-Amino-4,6-dinitrotoluene	1	17.186	17.214	-0.028	103633	0.2500	0.2422	M
	20 1,3,5-Trinitrobenzene	1	17.326	17.340	-0.014	105835	0.2500	0.2609	M
	21 2,6-Dinitrotoluene	1	18.459	18.487	-0.028	72766	0.2500	0.2495	
	22 2,4-Dinitrotoluene	1	18.913	18.940	-0.027	148217	0.2500	0.2536	
	23 Tetryl	1	22.173	22.214	-0.041	71591	0.2500	0.2514	
	24 2,4,6-Trinitrotoluene	1	22.979	23.014	-0.035	109623	0.2500	0.2498	
	25 PETN	2	24.206	24.261	-0.055	358455	2.50	2.49	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00013	Amount Added:	12.50	Units: uL
8330IntermStk_00076	Amount Added:	25.00	Units: uL
8330_ADDs_00037	Amount Added:	12.50	Units: uL

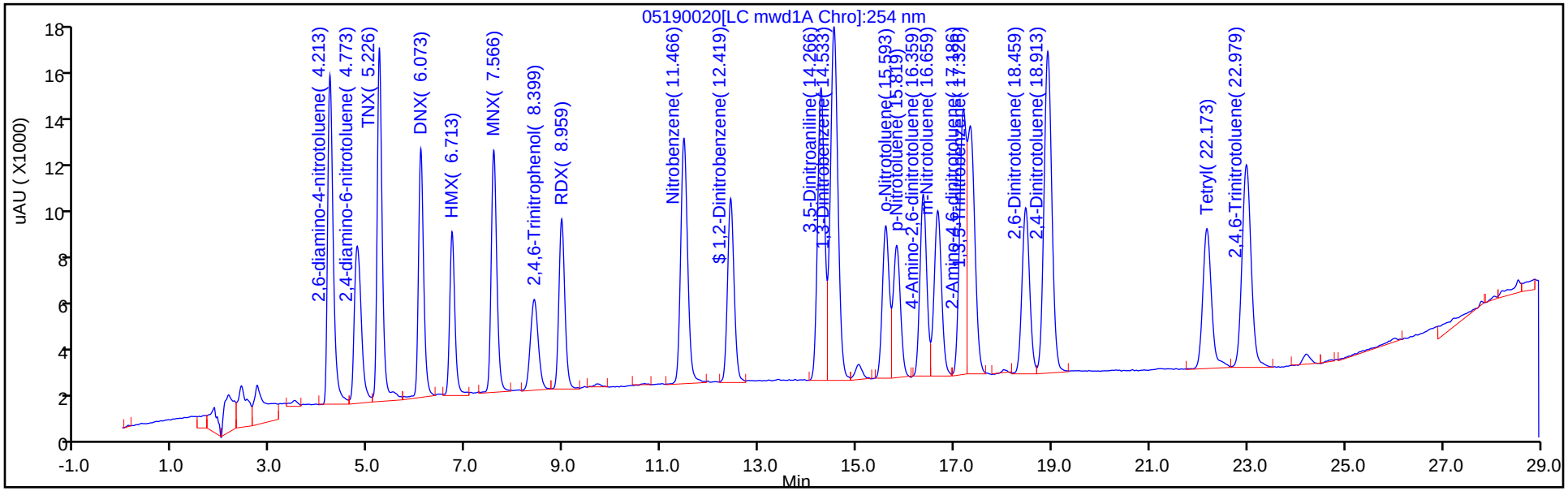
Report Date: 20-May-2023 11:53:11 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

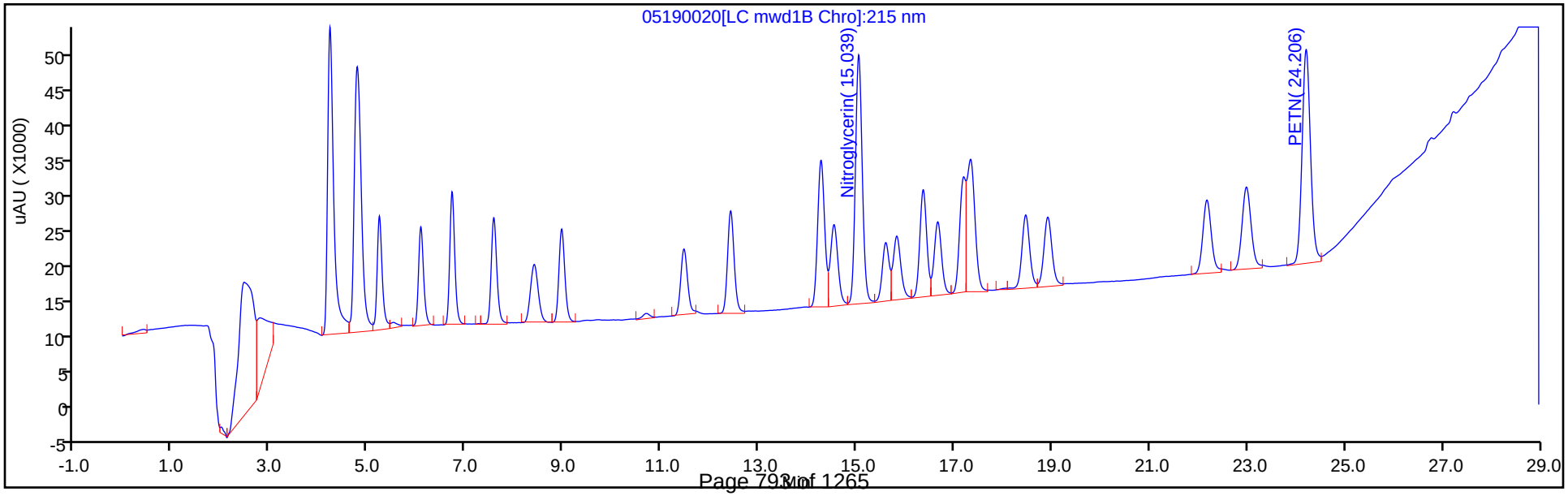
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190020.D

Injection Date:	19-May-2023 23:43:05	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	CCV ADD			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



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613172/25 | Calibration Date: 05/20/2023 02:37

Instrument ID: CHHPLC_X5 | Calib Start Date: 04/28/2023 18:24

GC Column: Luna-phenylhex ID: 4.60(mm) | Calib End Date: 04/28/2023 23:03

Lab File ID: 05190025.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	394332	398927		254	251	1.2	20.0
DNX	Ave	277072	298545		270	250	7.8	20.0
HMX	Lin2		197908		262	250	4.9	20.0
MNX	Ave	262267	275136		306	292	4.9	20.0
Picric acid	Lin2		178736		276	250	10.5	20.0
RDX	Lin2		243992		280	250	11.9	20.0
Nitrobenzene	Ave	398834	395740		248	250	-0.8	20.0
3,5-Dinitroaniline	Lin2		473124		265	250	5.9	20.0
1,3-Dinitrobenzene	Ave	629351	628776		250	250	-0.0	20.0
Nitroglycerin	Ave	134735	139221		2580	2500	3.3	20.0
2-Nitrotoluene	Ave	246963	245436		248	250	-0.6	20.0
4-Nitrotoluene	Ave	227490	225828		248	250	-0.7	20.0
4-Amino-2,6-dinitrotoluene	Ave	294210	294004		250	250	-0.0	20.0
3-Nitrotoluene	Ave	294634	289016		245	250	-1.9	20.0
2-Amino-4,6-dinitrotoluene	Ave	427939	429492		251	250	0.4	20.0
1,3,5-Trinitrobenzene	Ave	405692	418328		258	250	3.1	20.0
2,6-Dinitrotoluene	Ave	291675	290980		249	250	-0.2	20.0
2,4-Dinitrotoluene	Ave	584463	590764		253	250	1.1	20.0
Tetryl	Ave	284731	291364		256	250	2.3	20.0
2,4,6-Trinitrotoluene	Ave	438876	440992		251	250	0.5	20.0
PETN	Ave	143938	144091		2500	2500	0.1	20.0
1,2-Dinitrobenzene	Ave	280697	282196		251	250	0.5	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613172/25 Calibration Date: 05/20/2023 02:37

Instrument ID: CHHPLC_X5 Calib Start Date: 04/28/2023 18:24

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 04/28/2023 23:03

Lab File ID: 05190025.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.23	5.07	5.37
DNX	6.09	5.92	6.22
HMX	6.73	6.56	6.86
MNX	7.59	7.42	7.72
Picric acid	8.41	8.27	8.57
RDX	8.97	8.80	9.10
Nitrobenzene	11.47	11.30	11.60
3,5-Dinitroaniline	14.28	14.12	14.42
1,3-Dinitrobenzene	14.55	14.38	14.68
Nitroglycerin	15.05	14.90	15.20
2-Nitrotoluene	15.61	15.46	15.76
4-Nitrotoluene	15.83	15.68	15.98
4-Amino-2,6-dinitrotoluene	16.39	16.23	16.53
3-Nitrotoluene	16.68	16.53	16.83
2-Amino-4,6-dinitrotoluene	17.21	17.06	17.36
1,3,5-Trinitrobenzene	17.34	17.19	17.49
2,6-Dinitrotoluene	18.49	18.34	18.64
2,4-Dinitrotoluene	18.94	18.79	19.09
Tetryl	22.21	22.06	22.36
2,4,6-Trinitrotoluene	23.01	22.86	23.16
PETN	24.25	24.11	24.41
1,2-Dinitrobenzene	12.43	12.26	12.56

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190025.D
Lims ID: CCV ADD
Client ID:
Sample Type: CCV
Inject. Date: 20-May-2023 02:37:42 ALS Bottle#: 7 Worklist Smp#: 25
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV ADD
Operator ID: JZ/JG Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub11

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 20-May-2023 11:53:14 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1663

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1	2,6-diamino-4-nitrotoluene	1	4.212	4.214	-0.002	106523	0.2500	0.2641	
2	2,4-diamino-6-nitrotoluene	1	4.772	4.767	0.005	62239	0.2500	0.2763	
3	TNX	1	5.226	5.221	0.005	100031	0.2508	0.2537	
4	DNX	1	6.086	6.067	0.019	74711	0.2503	0.2696	
5	HMX	1	6.726	6.707	0.019	49477	0.2500	0.2623	
6	MNX	1	7.586	7.567	0.019	80271	0.2918	0.3061	
7	2,4,6-Trinitrophenol	1	8.412	8.421	-0.009	44684	0.2500	0.2762	
8	RDX	1	8.972	8.954	0.018	60998	0.2500	0.2798	
9	Nitrobenzene	1	11.472	11.454	0.018	98935	0.2500	0.2481	
$ 10	1,2-Dinitrobenzene	1	12.432	12.414	0.018	70549	0.2500	0.2513	
11	3,5-Dinitroaniline	1	14.279	14.267	0.012	118281	0.2500	0.2647	
12	1,3-Dinitrobenzene	1	14.546	14.534	0.012	157194	0.2500	0.2498	
13	Nitroglycerin	2	15.052	15.054	-0.002	348052	2.50	2.58	
14	o-Nitrotoluene	1	15.606	15.607	-0.001	61359	0.2500	0.2485	
16	p-Nitrotoluene	1	15.832	15.834	-0.002	56457	0.2500	0.2482	
17	4-Amino-2,6-dinitrotoluene	1	16.386	16.380	0.006	73501	0.2500	0.2498	
18	m-Nitrotoluene	1	16.679	16.680	-0.001	72254	0.2500	0.2452	
19	2-Amino-4,6-dinitrotoluene	1	17.212	17.214	-0.002	107373	0.2500	0.2509	
20	1,3,5-Trinitrobenzene	1	17.339	17.340	-0.001	104582	0.2500	0.2578	
21	2,6-Dinitrotoluene	1	18.486	18.487	-0.001	72745	0.2500	0.2494	
22	2,4-Dinitrotoluene	1	18.939	18.940	-0.001	147691	0.2500	0.2527	
23	Tetryl	1	22.206	22.214	-0.008	72841	0.2500	0.2558	
24	2,4,6-Trinitrotoluene	1	23.012	23.014	-0.002	110248	0.2500	0.2512	
25	PETN	2	24.252	24.261	-0.009	360227	2.50	2.50	

Reagents:

8330 DMT_00013	Amount Added: 12.50	Units: uL
8330IntermStk_00076	Amount Added: 25.00	Units: uL
8330_ADDs_00037	Amount Added: 12.50	Units: uL

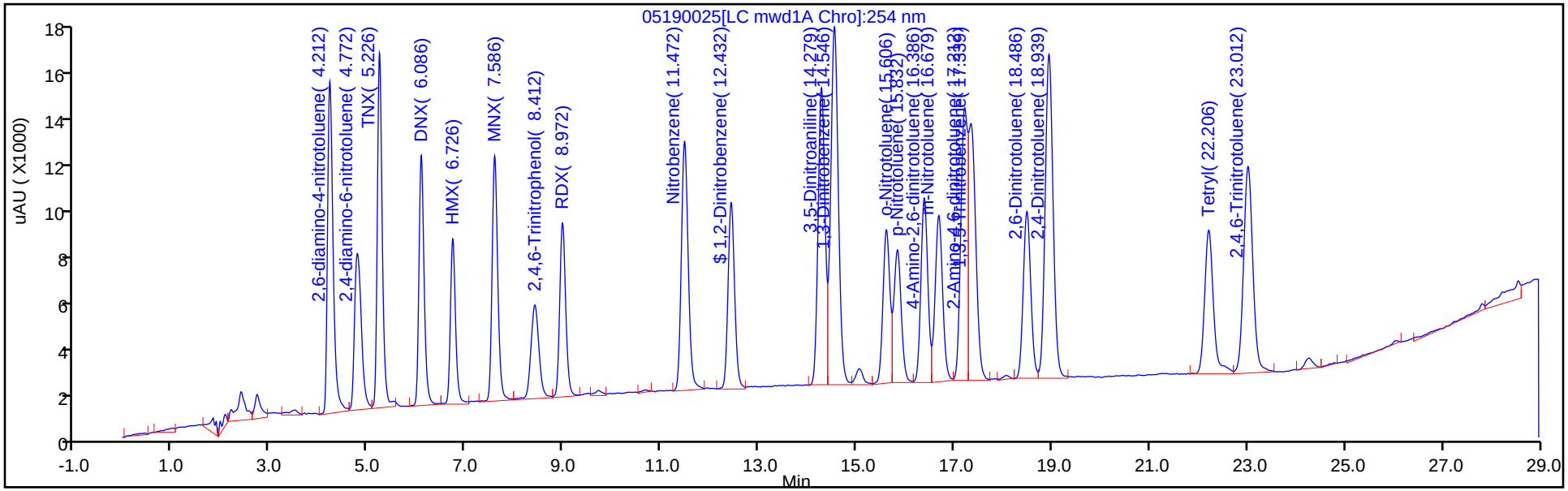
Report Date: 20-May-2023 11:53:14 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

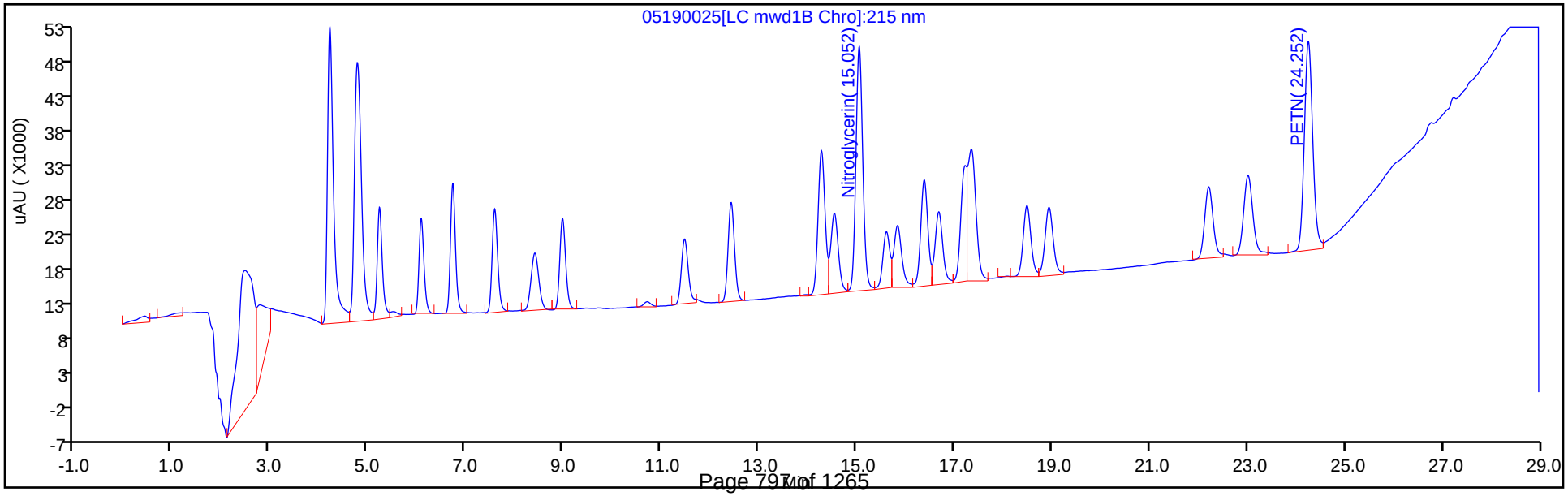
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190025.D

Injection Date:	20-May-2023 02:37:42	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	CCV ADD			Worklist Smp#:	25
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



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613172/25 | Calibration Date: 05/20/2023 02:37

Instrument ID: CHHPLC_X5 | Calib Start Date: 04/29/2023 00:13

GC Column: Luna-phenylhex ID: 4.60(mm) | Calib End Date: 04/29/2023 04:18

Lab File ID: 05190025.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,6-diamino-4-nitrotoluene	Ave	403300	426092		264	250	5.7	20.0
2,4-diamino-6-nitrotoluene	Ave	225281	248956		276	250	10.5	20.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Lab Sample ID: CCV 280-613172/25 Calibration Date: 05/20/2023 02:37

Instrument ID: CHHPLC_X5 Calib Start Date: 04/29/2023 00:13

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 04/29/2023 04:18

Lab File ID: 05190025.D

Analyte	RT	RT WINDOW	
		FROM	TO
2,6-diamino-4-nitrotoluene	4.21	4.06	4.36
2,4-diamino-6-nitrotoluene	4.77	4.62	4.92

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190025.D
Lims ID: CCV ADD
Client ID:
Sample Type: CCV
Inject. Date: 20-May-2023 02:37:42 ALS Bottle#: 7 Worklist Smp#: 25
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV ADD
Operator ID: JZ/JG Instrument ID: CHHPLC_X5
Sublist: chrom-8330_X5_Luna*sub11

Method: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\8330_X5_Luna.m
Limit Group: GCSV - 8330
Last Update: 20-May-2023 11:53:14 Calib Date: 29-Apr-2023 04:18:01
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230428-120896.b\04280027.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC mwd1A, 254 nm
Process Host: CTX1663

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 2,6-diamino-4-nitrotoluene	1	4.212	4.214	-0.002	106523	0.2500	0.2641	
	2 2,4-diamino-6-nitrotoluene	1	4.772	4.767	0.005	62239	0.2500	0.2763	
	3 TNX	1	5.226	5.221	0.005	100031	0.2508	0.2537	
	4 DNX	1	6.086	6.067	0.019	74711	0.2503	0.2696	
	5 HMX	1	6.726	6.707	0.019	49477	0.2500	0.2623	
	6 MNX	1	7.586	7.567	0.019	80271	0.2918	0.3061	
	7 2,4,6-Trinitrophenol	1	8.412	8.421	-0.009	44684	0.2500	0.2762	
	8 RDX	1	8.972	8.954	0.018	60998	0.2500	0.2798	
	9 Nitrobenzene	1	11.472	11.454	0.018	98935	0.2500	0.2481	
$	10 1,2-Dinitrobenzene	1	12.432	12.414	0.018	70549	0.2500	0.2513	
	11 3,5-Dinitroaniline	1	14.279	14.267	0.012	118281	0.2500	0.2647	
	12 1,3-Dinitrobenzene	1	14.546	14.534	0.012	157194	0.2500	0.2498	
	13 Nitroglycerin	2	15.052	15.054	-0.002	348052	2.50	2.58	
	14 o-Nitrotoluene	1	15.606	15.607	-0.001	61359	0.2500	0.2485	
	16 p-Nitrotoluene	1	15.832	15.834	-0.002	56457	0.2500	0.2482	
	17 4-Amino-2,6-dinitrotoluene	1	16.386	16.380	0.006	73501	0.2500	0.2498	
	18 m-Nitrotoluene	1	16.679	16.680	-0.001	72254	0.2500	0.2452	
	19 2-Amino-4,6-dinitrotoluene	1	17.212	17.214	-0.002	107373	0.2500	0.2509	
	20 1,3,5-Trinitrobenzene	1	17.339	17.340	-0.001	104582	0.2500	0.2578	
	21 2,6-Dinitrotoluene	1	18.486	18.487	-0.001	72745	0.2500	0.2494	
	22 2,4-Dinitrotoluene	1	18.939	18.940	-0.001	147691	0.2500	0.2527	
	23 Tetryl	1	22.206	22.214	-0.008	72841	0.2500	0.2558	
	24 2,4,6-Trinitrotoluene	1	23.012	23.014	-0.002	110248	0.2500	0.2512	
	25 PETN	2	24.252	24.261	-0.009	360227	2.50	2.50	

Reagents:

8330 DMT_00013 Amount Added: 12.50 Units: uL
8330IntermStk_00076 Amount Added: 25.00 Units: uL
8330_ADDs_00037 Amount Added: 12.50 Units: uL

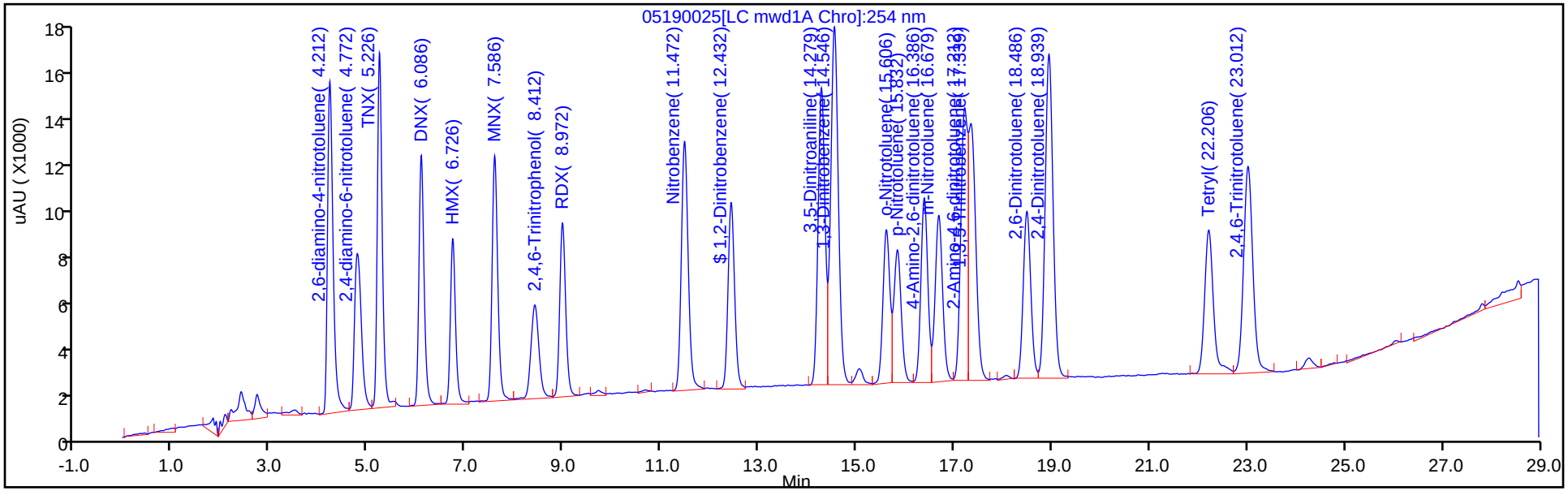
Report Date: 20-May-2023 11:53:14 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

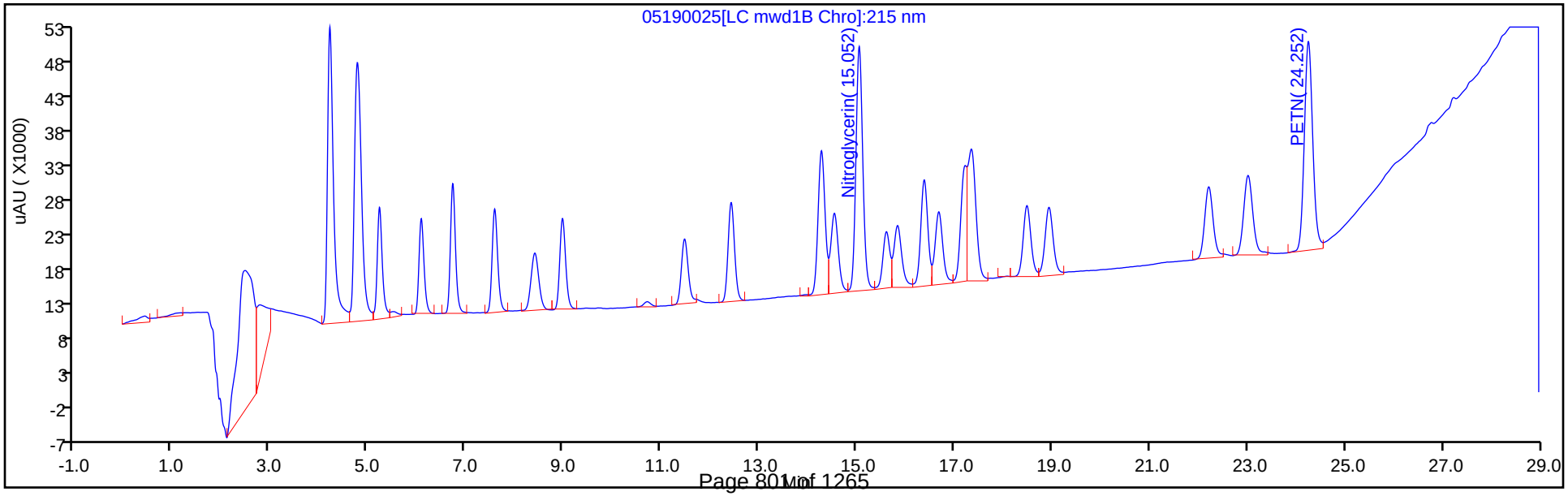
Data File: \\chromfs\Denver\ChromData\CHHPLC_X5\20230519-121649.b\05190025.D

Injection Date:	20-May-2023 02:37:42	Instrument ID:	CHHPLC_X5	Operator ID:	JZ/JG
Lims ID:	CCV ADD			Worklist Smp#:	25
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



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-176591-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-612937/1-A

Matrix: Water | Lab File ID: 05180011.D

Analysis Method: 8330B | Date Collected:

Extraction Method: 3535 | Date Extracted: 05/18/2023 13:20

Sample wt/vol: 500(mL) | Date Analyzed: 05/18/2023 22:09

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.: 613045 | 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
6629-29-4	2,4-diamino-6-nitrotoluene	0.90	U	1.0	0.90	0.43
121-14-2	2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027
59229-75-3	2,6-diamino-4-nitrotoluene	0.90	U	1.0	0.90	0.22
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
618-87-1	3,5-Dinitroaniline	0.30	U	0.40	0.30	0.13
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
80251-29-2	DNX	0.25	U	0.50	0.25	0.097
2691-41-0	HMX	0.20	U	0.21	0.20	0.088
5755-27-1	MNX	0.29	U	0.50	0.29	0.093
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
13980-04-6	TNX	0.25	U	0.50	0.25	0.079

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	106	M	83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180011.D
Lims ID: MB 280-612937/1-A
Client ID:
Sample Type: MB
Inject. Date: 18-May-2023 22:09:15 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: MB 280-612937/1-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:50 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 11:37:38

	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	
	3 TNX	1		6.426				ND	
	2 2,6-diamino-4-nitrotoluene	1		6.431				ND	7
	4 HMX	1		6.546				ND	
	5 2,4-diamino-6-nitrotoluene	1		6.618				ND	
	6 DNX	1		6.753				ND	
	7 MNX	1		7.180				ND	
	8 RDX	1		7.560				ND	
	9 2,4,6-Trinitrophenol	1		7.960				ND	
$	10 1,2-Dinitrobenzene	1	8.520	8.513	0.007	26819	0.2000	0.2123	M
	11 1,3,5-Trinitrobenzene	1		8.640				ND	M
	12 1,3-Dinitrobenzene	1		9.253				ND	
	13 Nitrobenzene	1		9.626				ND	
	14 3,5-Dinitroaniline	1		9.859				ND	
	15 Tetryl	1		9.986				ND	
	16 Nitroglycerin	2		10.439				ND	
	17 2,4,6-Trinitrotoluene	1		10.873				ND	
	18 4-Amino-2,6-dinitrotoluene	1		11.066				ND	
	19 2-Amino-4,6-dinitrotoluene	1		11.319				ND	
	20 2,6-Dinitrotoluene	1		11.473				ND	
	21 2,4-Dinitrotoluene	1		11.639				ND	
	22 o-Nitrotoluene	1		12.459				ND	
	23 p-Nitrotoluene	1		12.873				ND	
	24 m-Nitrotoluene	1		13.446				ND	
	25 PETN	2		14.599				ND	
	26 Ammonium Picrate	1		0.000				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
M - Manually Integrated

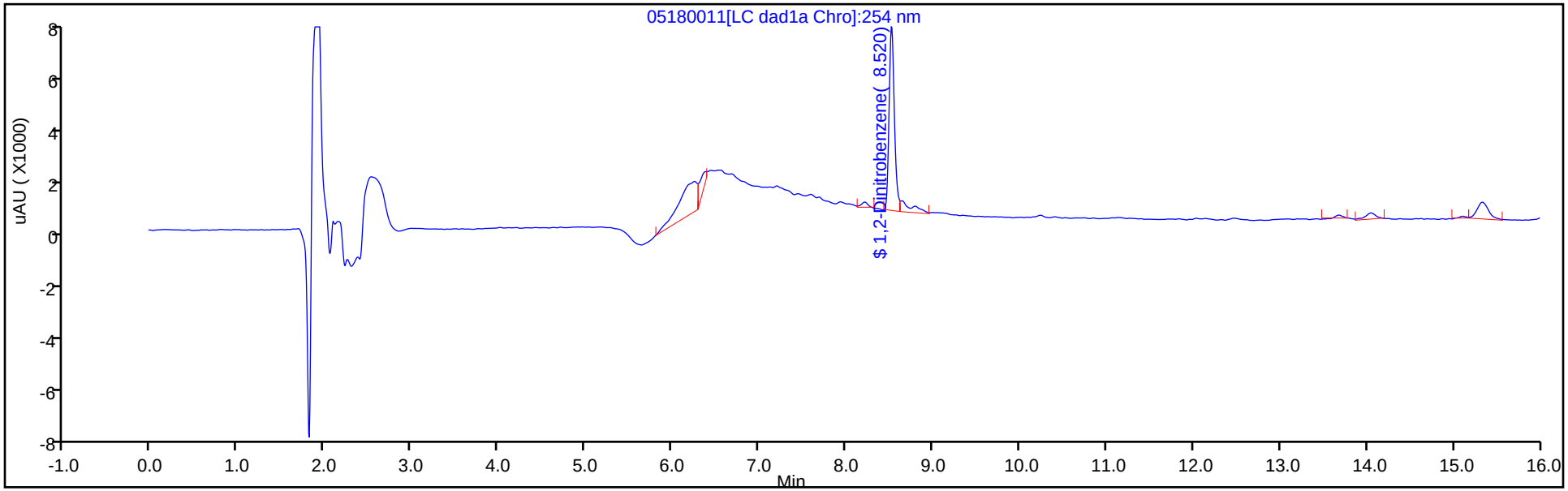
Report Date: 19-May-2023 12:21:51 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

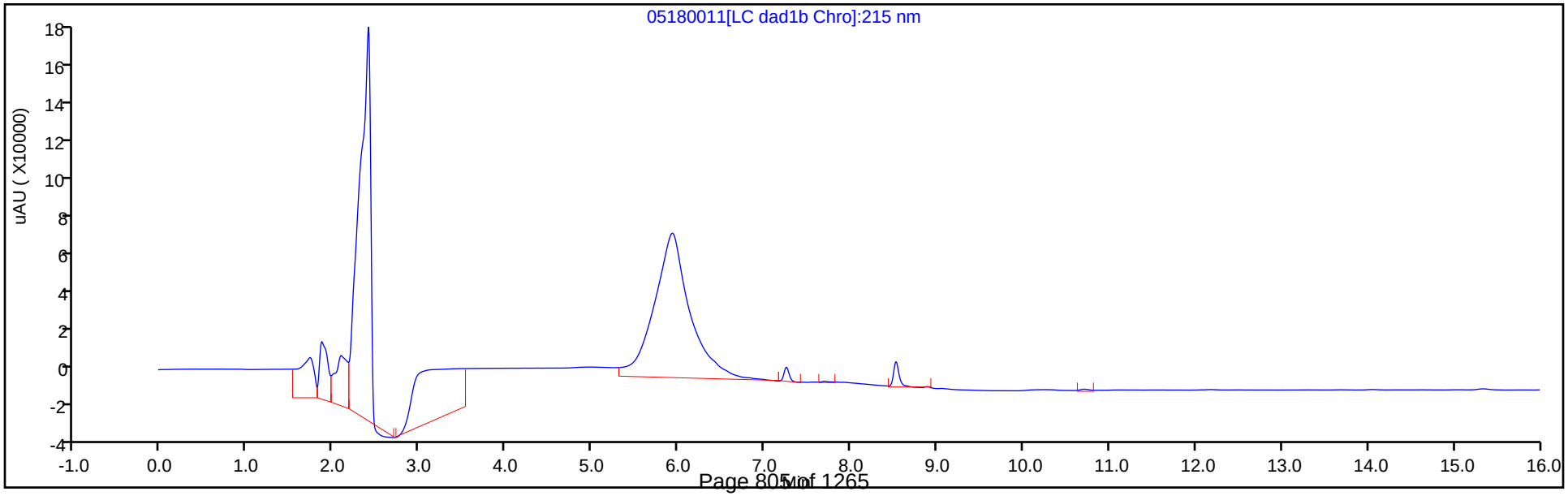
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180011.d

Injection Date:	18-May-2023 22:09:15	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	MB 280-612937/1-A			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



Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180011.D				
Lims ID:	MB 280-612937/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	18-May-2023 22:09:15	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	MB 280-612937/1-A				
Operator ID:	JZ/JG	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	19-May-2023 12:21:50	Calib Date:	24-Feb-2023 17:41:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1654				

First Level Reviewer: LV5D Date: 19-May-2023 11:37:38

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2123	106.16

Manual Integration/User Assign Peak Report

Eurofins Denver

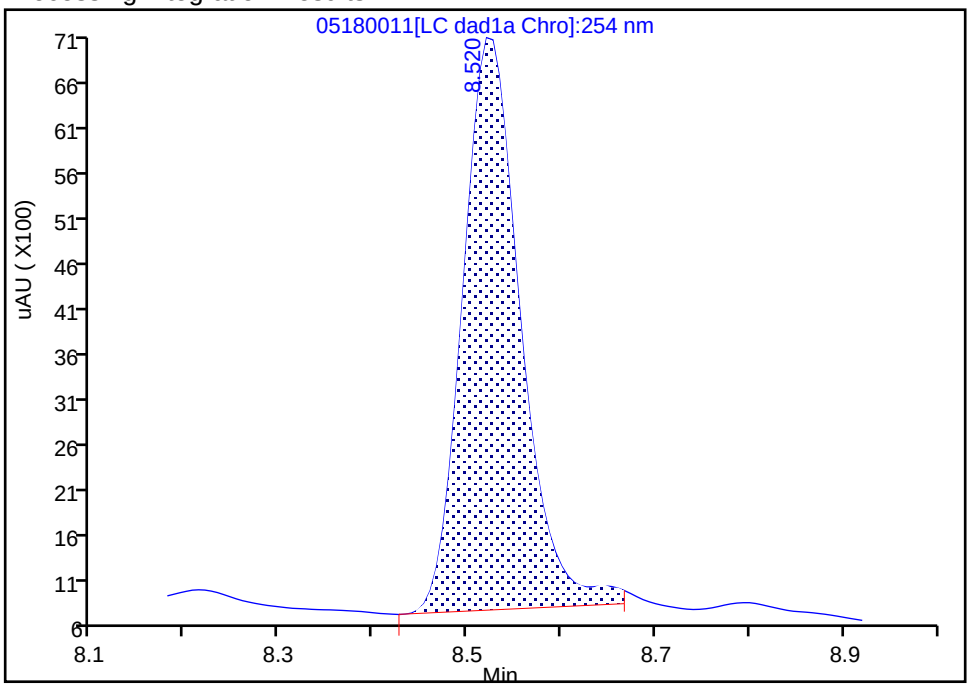
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180011.d				
Injection Date:	18-May-2023 22:09:15	Instrument ID:	CHHPLC_X3		
Lims ID:	MB 280-612937/1-A				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

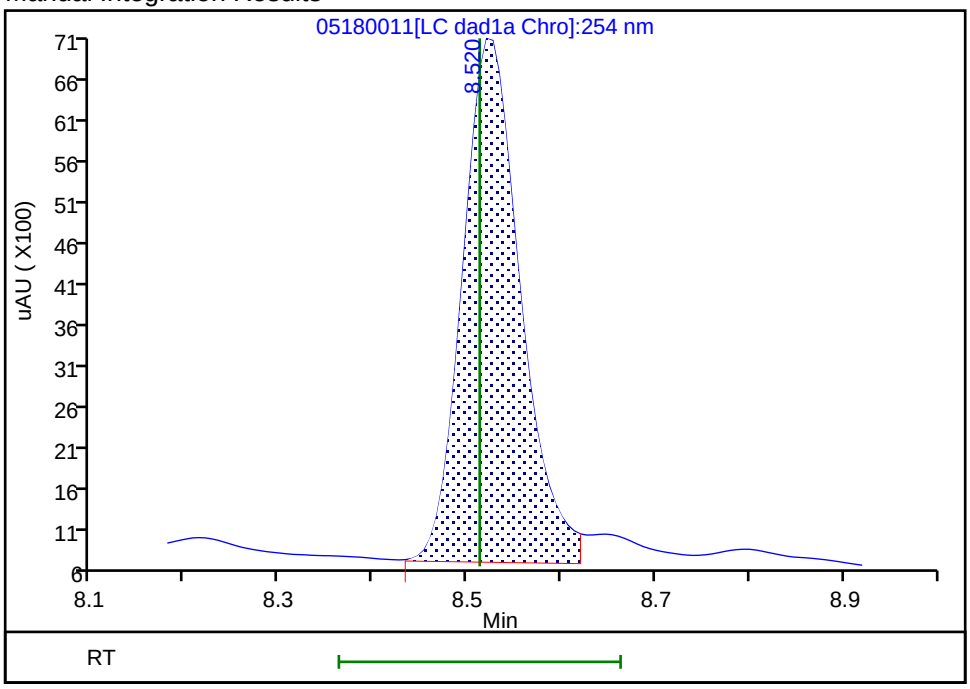
Processing Integration Results

RT: 8.52
Area: 26557
Amount: 0.210255
Amount Units: ug/mL



Manual Integration Results

RT: 8.52
Area: 26819
Amount: 0.212329
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:37:36 -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.: 280-176591-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-612937/2-A

Matrix: Water | Lab File ID: 05180012.D

Analysis Method: 8330B | Date Collected:

Extraction Method: 3535 | Date Extracted: 05/18/2023 13:20

Sample wt/vol: 500(mL) | Date Analyzed: 05/18/2023 22:32

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.: 613045 | 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	1.94		0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	1.86		0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	1.84		0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	1.85		0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	1.82		0.11	0.10	0.051
88-72-2	2-Nitrotoluene	1.51		0.21	0.20	0.086
618-87-1	3,5-Dinitroaniline	1.77		0.40	0.30	0.13
99-08-1	3-Nitrotoluene	1.45	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	1.50		0.41	0.40	0.10
80251-29-2	DNX	2.00	M	0.50	0.25	0.097
2691-41-0	HMX	1.81	M	0.21	0.20	0.088
5755-27-1	MNX	2.41	M	0.50	0.29	0.093
98-95-3	Nitrobenzene	1.71		0.21	0.20	0.091
55-63-0	Nitroglycerin	19.9		2.1	2.0	0.92
78-11-5	PETN	21.0		1.1	1.0	0.45
121-82-4	RDX	1.92	M	0.21	0.20	0.052
479-45-8	Tetryl	2.04		0.11	0.10	0.032
13980-04-6	TNX	2.02	M	0.50	0.25	0.079

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\20230518-121611.b\05180012.D
Lims ID: LCS 280-612937/2-A
Client ID:
Sample Type: LCS
Inject. Date: 18-May-2023 22:32:09 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCS 280-612937/2-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:50 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 11:29:34

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.433	6.426	0.007	39902	0.2006	0.2018	M
4 HMX	1	6.553	6.546	0.007	16895	0.2000	0.1806	M
6 DNX	1	6.760	6.753	0.007	28839	0.2002	0.1996	M
7 MNX	1	7.187	7.180	0.007	31641	0.2334	0.2412	M
8 RDX	1	7.573	7.560	0.013	20415	0.2000	0.1919	M
9 2,4,6-Trinitrophenol	1	7.967	7.960	0.007	16615	0.2000	0.2191	
$ 10 1,2-Dinitrobenzene	1	8.527	8.513	0.014	26235	0.2000	0.2077	
11 1,3,5-Trinitrobenzene	1	8.647	8.640	0.007	44544	0.2000	0.2051	
12 1,3-Dinitrobenzene	1	9.273	9.253	0.020	57195	0.2000	0.1943	
13 Nitrobenzene	1	9.640	9.626	0.014	32789	0.2000	0.1715	
14 3,5-Dinitroaniline	1	9.873	9.859	0.014	40375	0.2000	0.1768	
15 Tetryl	1	10.007	9.986	0.021	33422	0.2000	0.2036	
16 Nitroglycerin	2	10.460	10.439	0.021	127457	2.00	1.99	
17 2,4,6-Trinitrotoluene	1	10.893	10.873	0.020	39234	0.2000	0.1859	
18 4-Amino-2,6-dinitrotoluene	1	11.087	11.066	0.021	27331	0.2000	0.1764	
19 2-Amino-4,6-dinitrotoluene	1	11.340	11.319	0.021	36570	0.2000	0.1816	
20 2,6-Dinitrotoluene	1	11.493	11.473	0.020	26381	0.2000	0.1848	
21 2,4-Dinitrotoluene	1	11.660	11.639	0.021	54544	0.2000	0.1839	
22 o-Nitrotoluene	1	12.480	12.459	0.021	19353	0.2000	0.1513	
23 p-Nitrotoluene	1	12.900	12.873	0.027	16751	0.2000	0.1497	
24 m-Nitrotoluene	1	13.473	13.446	0.027	20325	0.2000	0.1447	
25 PETN	2	14.627	14.599	0.028	144482	2.00	2.10	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

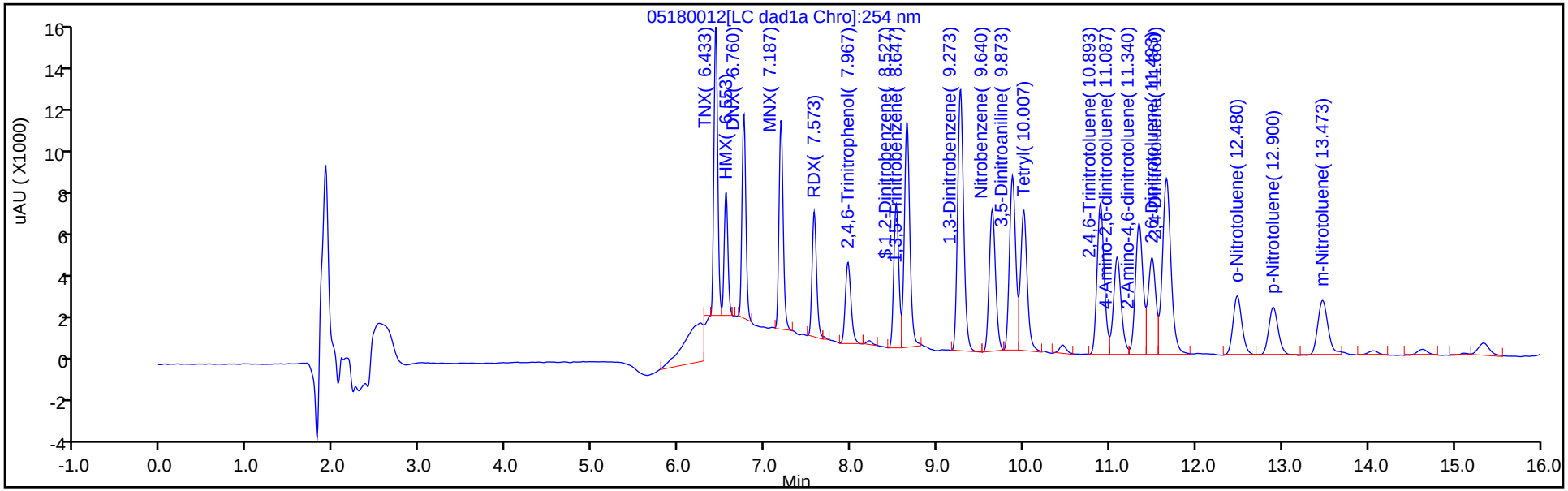
Report Date: 19-May-2023 12:21:51 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

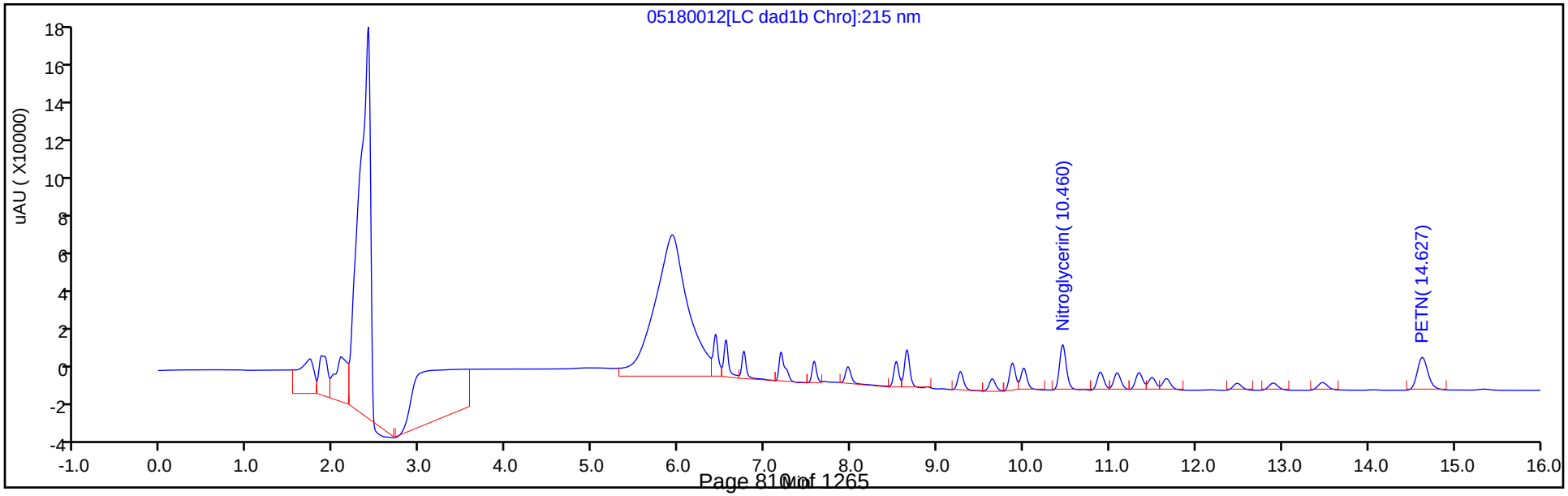
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180012.d

Injection Date:	18-May-2023 22:32:09	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	LCS 280-612937/2-A			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



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180012.D
Lims ID: LCS 280-612937/2-A
Client ID:
Sample Type: LCS
Inject. Date: 18-May-2023 22:32:09 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCS 280-612937/2-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:50 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 11:29:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2077	103.85

Manual Integration/User Assign Peak Report

Eurofins Denver

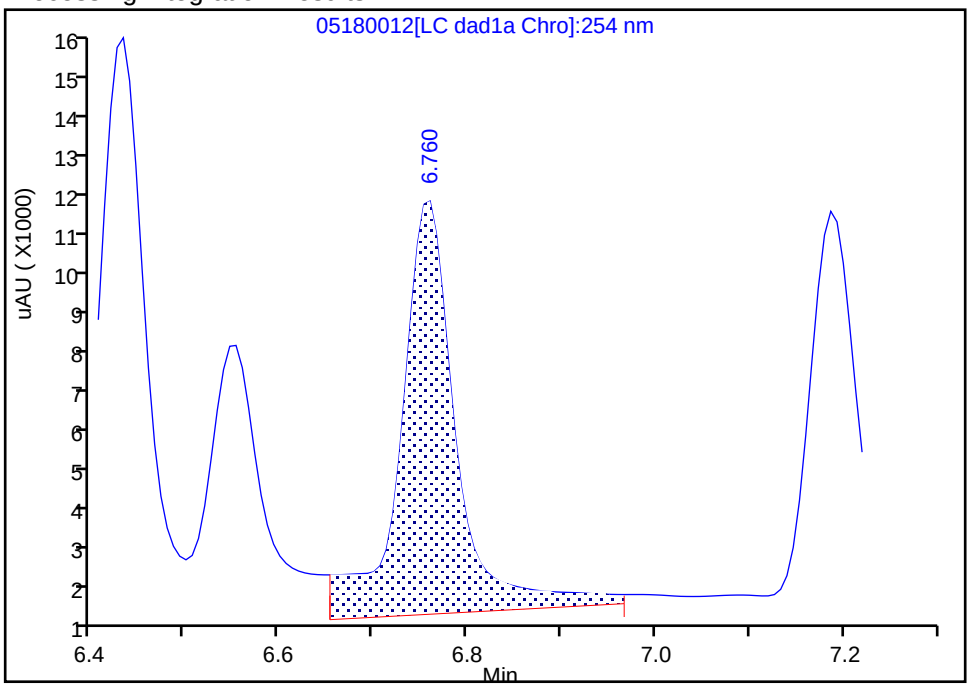
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180012.d				
Injection Date:	18-May-2023 22:32:09	Instrument ID:	CHHPLC_X3		
Lims ID:	LCS 280-612937/2-A				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 DNX, CAS: 80251-29-2

Signal: 1

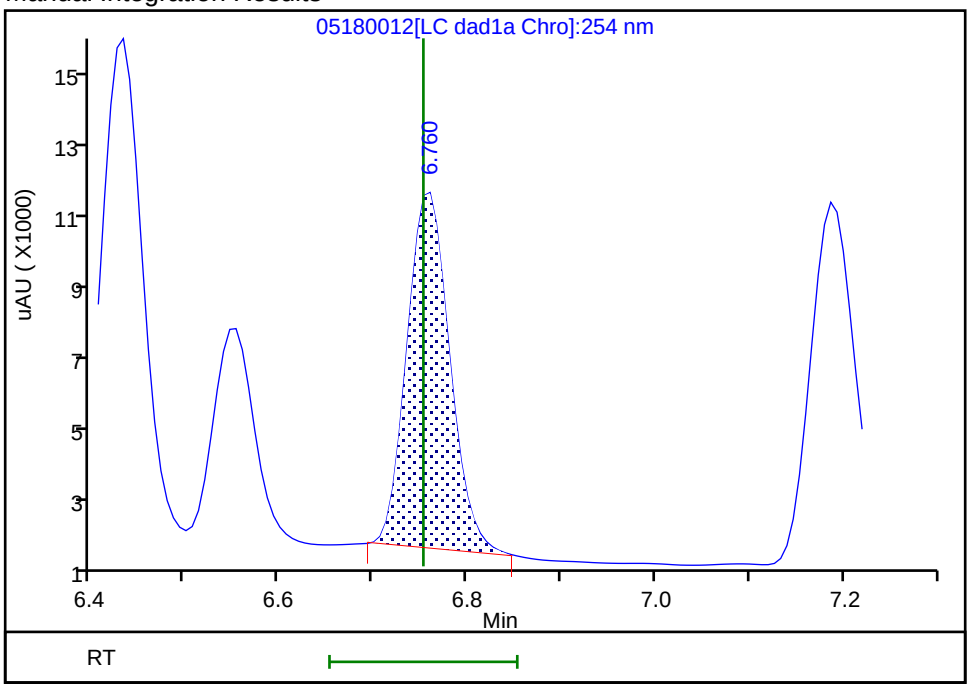
Processing Integration Results

RT: 6.76
Area: 42132
Amount: 0.291647
Amount Units: ug/mL



Manual Integration Results

RT: 6.76
Area: 28839
Amount: 0.199630
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:28:37 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

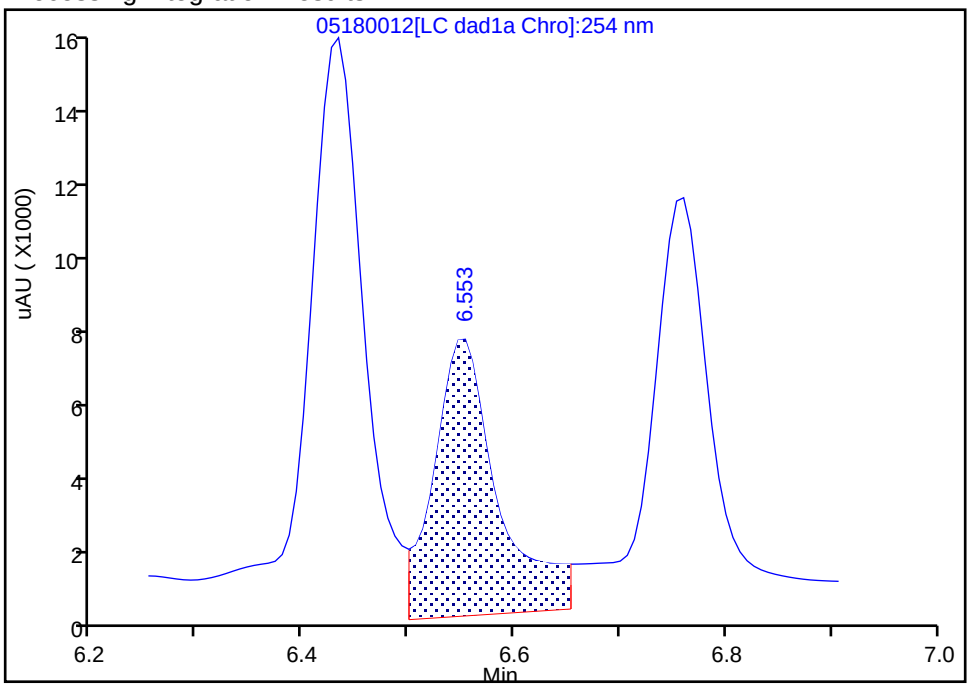
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180012.d				
Injection Date:	18-May-2023 22:32:09	Instrument ID:	CHHPLC_X3		
Lims ID:	LCS 280-612937/2-A				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

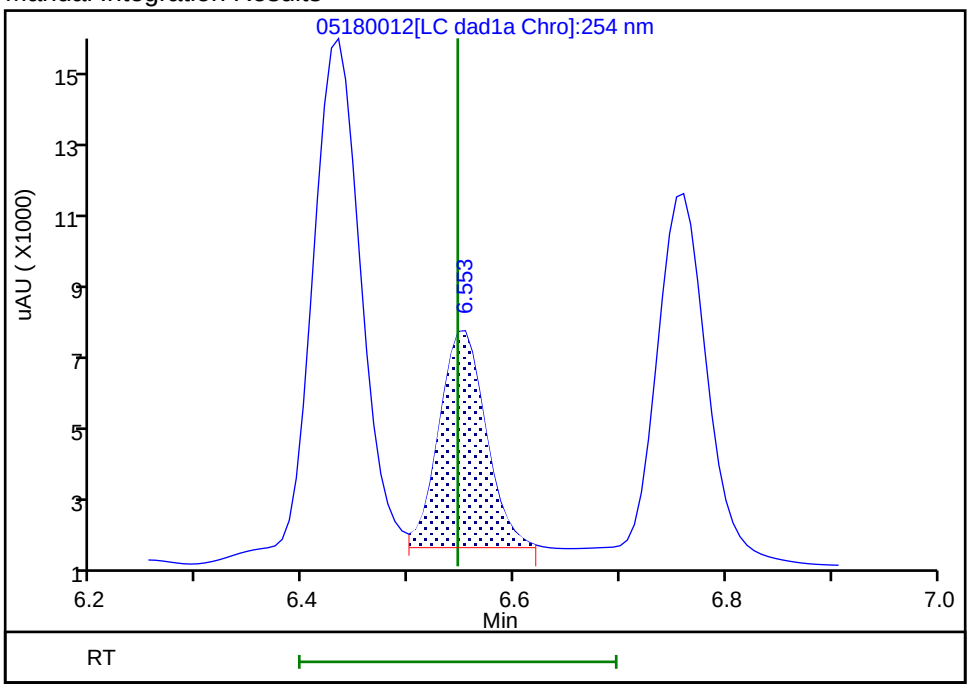
Processing Integration Results

RT: 6.55
Area: 28657
Amount: 0.306400
Amount Units: ug/mL



Manual Integration Results

RT: 6.55
Area: 16895
Amount: 0.180641
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:28:34 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

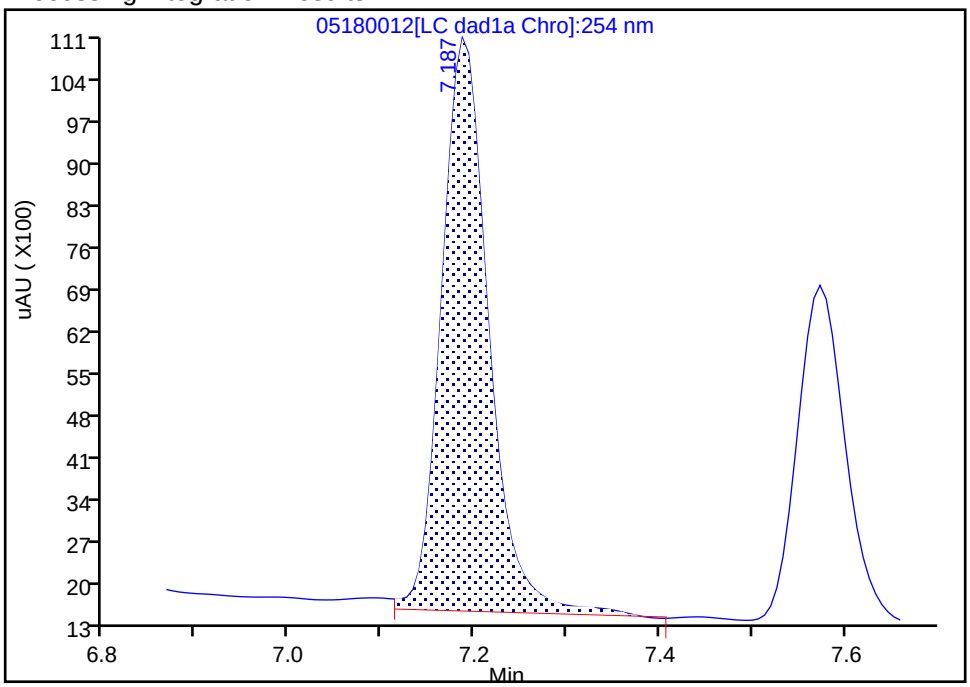
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180012.d				
Injection Date:	18-May-2023 22:32:09	Instrument ID:	CHHPLC_X3		
Lims ID:	LCS 280-612937/2-A				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 MNX, CAS: 5755-27-1

Signal: 1

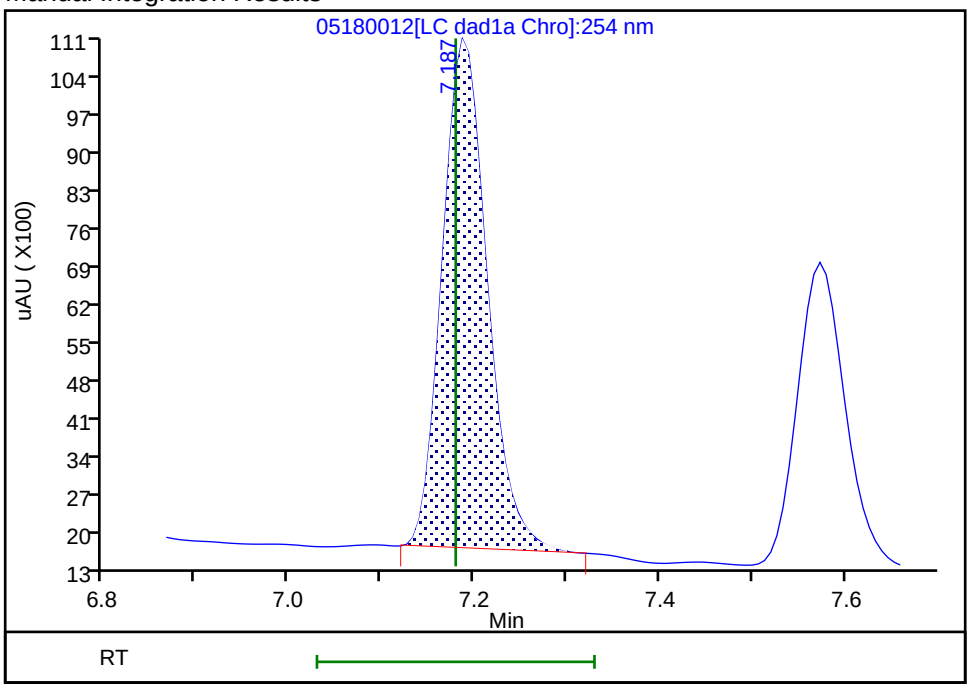
Processing Integration Results

RT: 7.19
Area: 33908
Amount: 0.258501
Amount Units: ug/mL



Manual Integration Results

RT: 7.19
Area: 31641
Amount: 0.241218
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:28:41 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

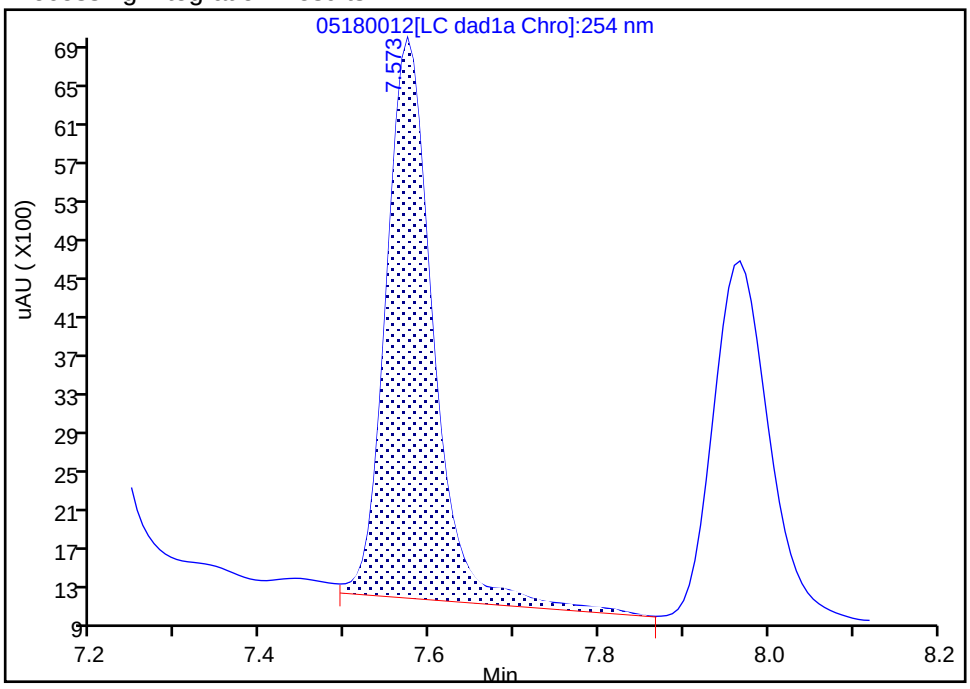
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180012.d				
Injection Date:	18-May-2023 22:32:09	Instrument ID:	CHHPLC_X3		
Lims ID:	LCS 280-612937/2-A				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

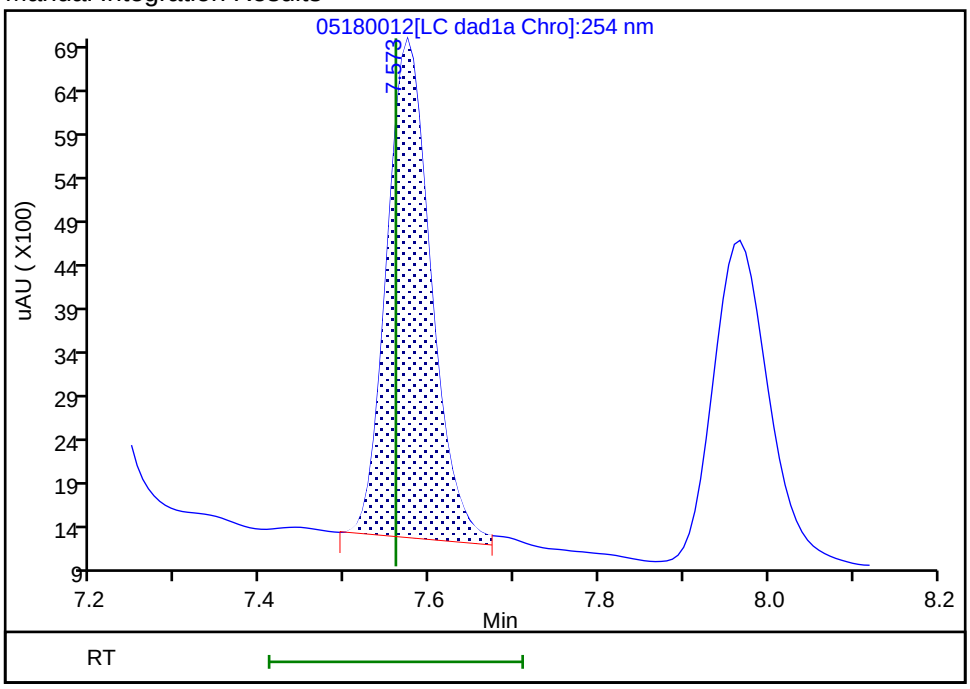
Processing Integration Results

RT: 7.57
Area: 22252
Amount: 0.209175
Amount Units: ug/mL



Manual Integration Results

RT: 7.57
Area: 20415
Amount: 0.191907
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:28:52 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

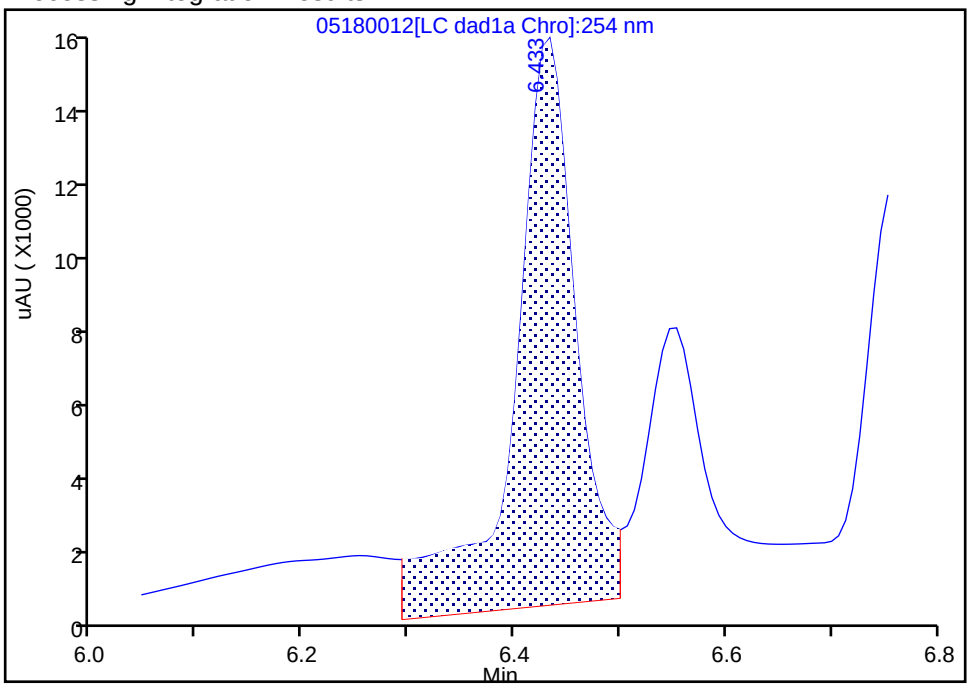
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180012.d
Injection Date: 18-May-2023 22:32:09 Instrument ID: CHHPLC_X3
Lims ID: LCS 280-612937/2-A
Client ID:
Operator ID: JZ/JG ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

3 TNX, CAS: 13980-04-6

Signal: 1

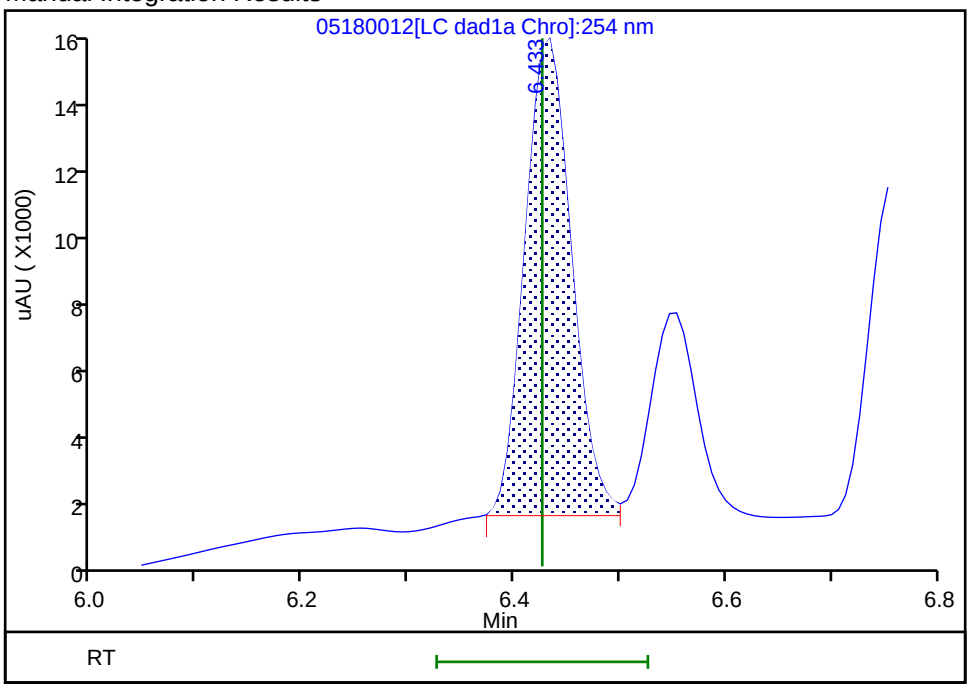
Processing Integration Results

RT: 6.43
Area: 60047
Amount: 0.303747
Amount Units: ug/mL



Manual Integration Results

RT: 6.43
Area: 39902
Amount: 0.201844
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:28:33 -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.: 280-176591-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-612937/4-A

Matrix: Water | Lab File ID: 05180014.D

Analysis Method: 8330B | Date Collected:

Extraction Method: 3535 | Date Extracted: 05/18/2023 13:20

Sample wt/vol: 500(mL) | Date Analyzed: 05/18/2023 23:18

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.: 613045 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
6629-29-4	2,4-diamino-6-nitrotoluene	1.41	M	1.0	0.90	0.43
59229-75-3	2,6-diamino-4-nitrotoluene	1.56	M	1.0	0.90	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	102		83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180014.D
Lims ID: LCS 280-612937/4-A
Client ID:
Sample Type: LCS
Inject. Date: 18-May-2023 23:18:16 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCS 280-612937/4-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:50 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 11:30:26

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
	2 2,6-diamino-4-nitrotoluene	1	6.418	6.431	-0.013	36773	0.2000	0.1563	M
	5 2,4-diamino-6-nitrotoluene	1	6.605	6.618	-0.013	20657	0.2000	0.1410	M
$	10 1,2-Dinitrobenzene	1	8.525	8.513	0.012	25853	0.2000	0.2047	

QC Flag Legend

Review Flags
M - Manually Integrated

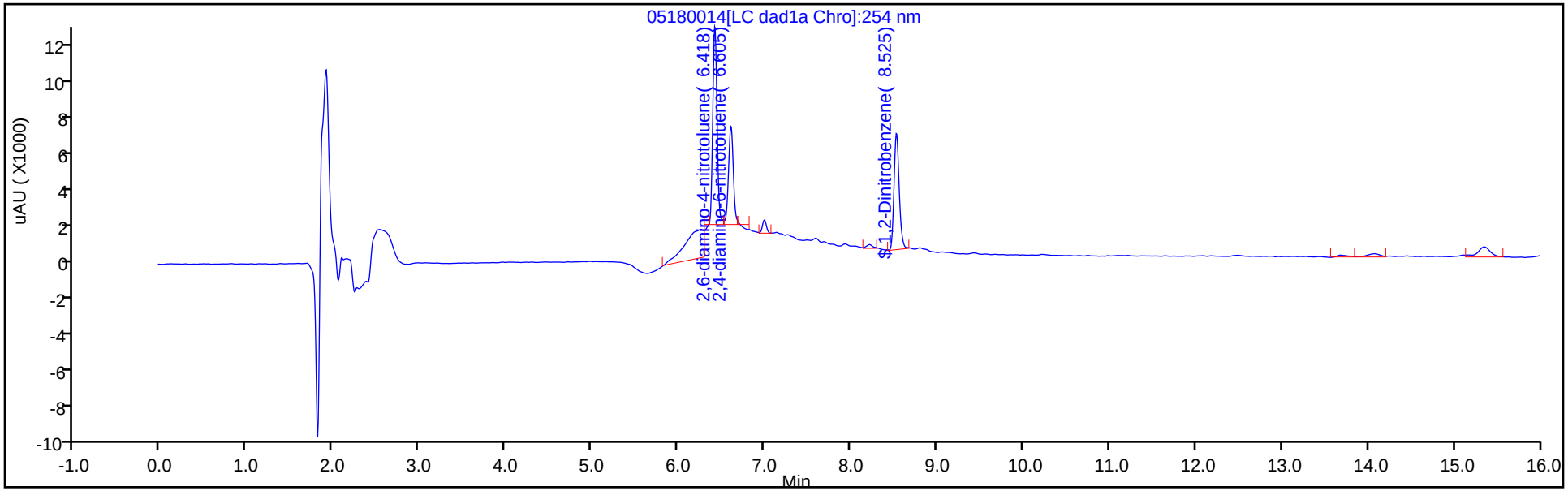
Report Date: 19-May-2023 12:21:53 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

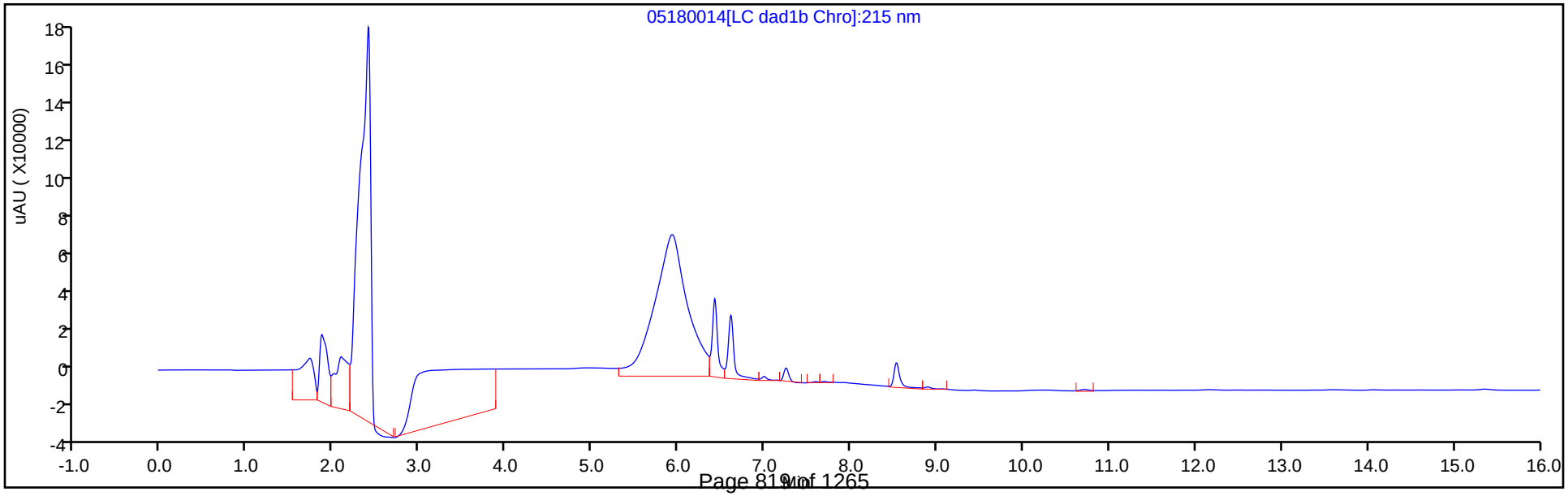
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180014.d

Injection Date:	18-May-2023 23:18:16	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	LCS 280-612937/4-A			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



Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180014.D				
Lims ID:	LCS 280-612937/4-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	18-May-2023 23:18:16	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 280-612937/4-A				
Operator ID:	JZ/JG	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	19-May-2023 12:21:50	Calib Date:	24-Feb-2023 17:41:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1654				

First Level Reviewer: LV5D Date: 19-May-2023 11:30:26

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2047	102.34

Manual Integration/User Assign Peak Report

Eurofins Denver

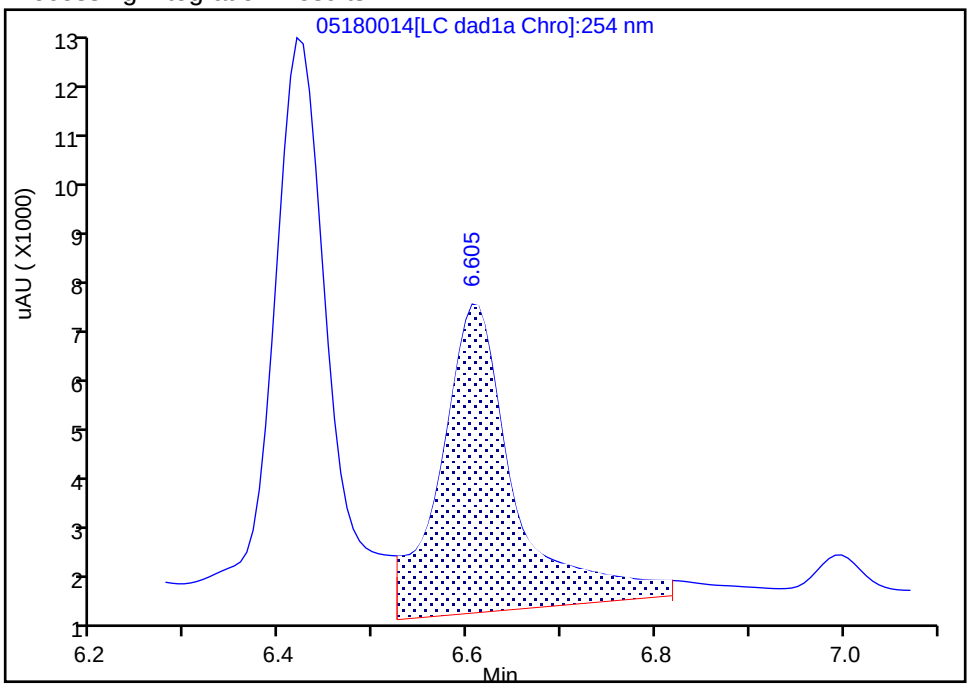
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180014.d				
Injection Date:	18-May-2023 23:18:16	Instrument ID:	CHHPLC_X3		
Lims ID:	LCS 280-612937/4-A				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 2,4-diamino-6-nitrotoluene, CAS: 6629-29-4

Signal: 1

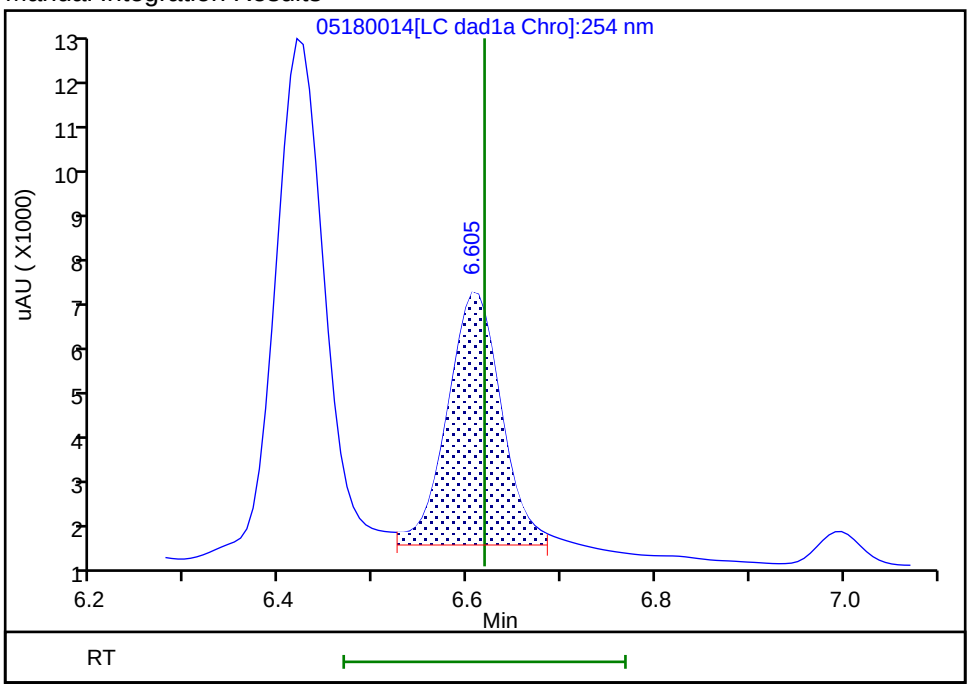
Processing Integration Results

RT: 6.60
Area: 33403
Amount: 0.228050
Amount Units: ug/mL



Manual Integration Results

RT: 6.60
Area: 20657
Amount: 0.141030
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:30:25 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

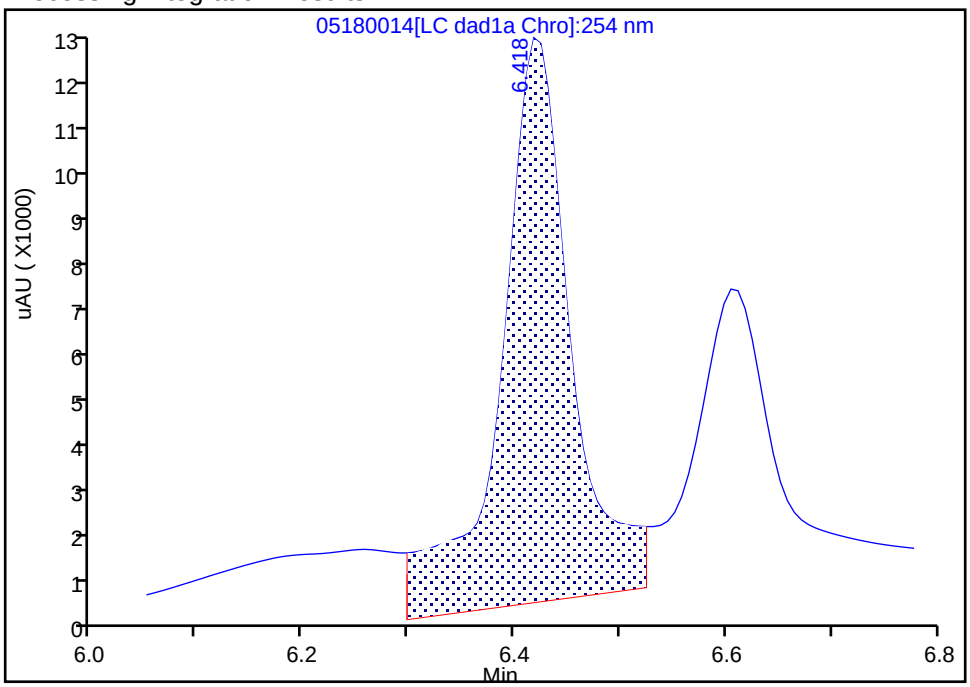
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180014.d				
Injection Date:	18-May-2023 23:18:16	Instrument ID:	CHHPLC_X3		
Lims ID:	LCS 280-612937/4-A				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 2,6-diamino-4-nitrotoluene, CAS: 59229-75-3

Signal: 1

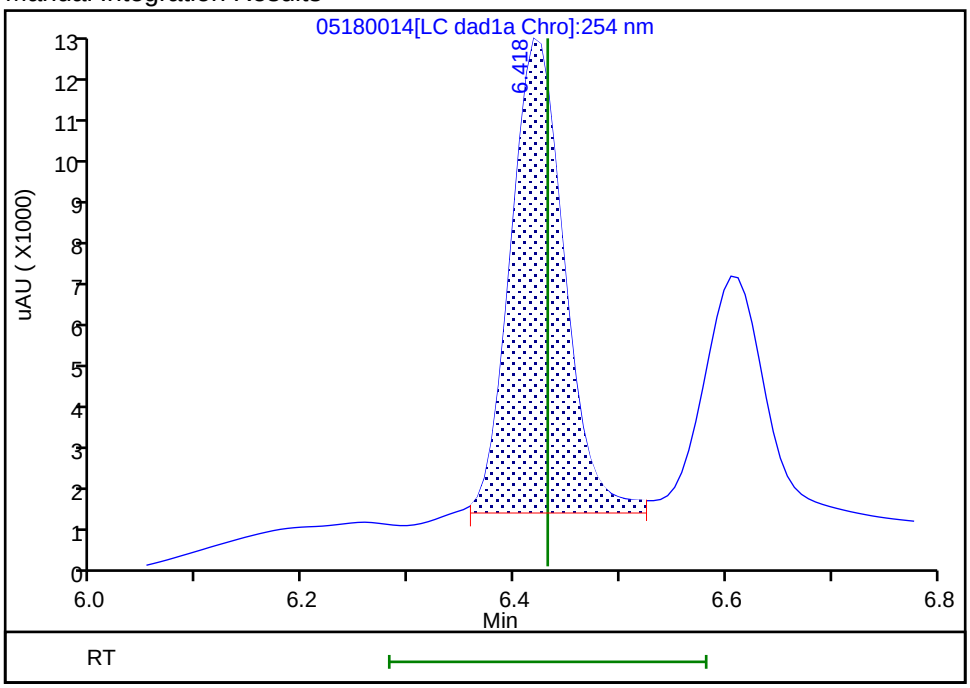
Processing Integration Results

RT: 6.42
Area: 54806
Amount: 0.234843
Amount Units: ug/mL



Manual Integration Results

RT: 6.42
Area: 36773
Amount: 0.156334
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:30:24 -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.: 280-176591-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-612937/3-A

Matrix: Water | Lab File ID: 05180013.D

Analysis Method: 8330B | Date Collected:

Extraction Method: 3535 | Date Extracted: 05/18/2023 13:20

Sample wt/vol: 500(mL) | Date Analyzed: 05/18/2023 22:55

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.: 613045 | 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	1.94		0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	1.87		0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	1.83		0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	1.91		0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	1.79		0.11	0.10	0.051
88-72-2	2-Nitrotoluene	1.54		0.21	0.20	0.086
618-87-1	3,5-Dinitroaniline	1.74		0.40	0.30	0.13
99-08-1	3-Nitrotoluene	1.46		0.40	0.35	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.81		0.15	0.12	0.058
99-99-0	4-Nitrotoluene	1.50		0.41	0.40	0.10
80251-29-2	DNX	1.98	M	0.50	0.25	0.097
2691-41-0	HMX	1.88	M	0.21	0.20	0.088
5755-27-1	MNX	2.42	M	0.50	0.29	0.093
98-95-3	Nitrobenzene	1.72		0.21	0.20	0.091
55-63-0	Nitroglycerin	19.9		2.1	2.0	0.92
78-11-5	PETN	20.9		1.1	1.0	0.45
121-82-4	RDX	1.88	M	0.21	0.20	0.052
479-45-8	Tetryl	2.07		0.11	0.10	0.032
13980-04-6	TNX	2.06	M	0.50	0.25	0.079

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	102		83-119

Report Date: 19-May-2023 12:21:52 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180013.D
Lims ID: LCSD 280-612937/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 18-May-2023 22:55:11 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 280-612937/3-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:50 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 11:30:00

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 TNX	1	6.432	6.426	0.006	40691	0.2006	0.2058	M
4 HMX	1	6.552	6.546	0.006	17549	0.2000	0.1876	M
6 DNX	1	6.759	6.753	0.006	28636	0.2002	0.1982	M
7 MNX	1	7.186	7.180	0.006	31679	0.2334	0.2415	M
8 RDX	1	7.572	7.560	0.012	20052	0.2000	0.1885	M
9 2,4,6-Trinitrophenol	1	7.959	7.960	-0.001	16679	0.2000	0.2200	
$ 10 1,2-Dinitrobenzene	1	8.519	8.513	0.006	25843	0.2000	0.2046	
11 1,3,5-Trinitrobenzene	1	8.646	8.640	0.006	44476	0.2000	0.2048	
12 1,3-Dinitrobenzene	1	9.266	9.253	0.013	57044	0.2000	0.1938	
13 Nitrobenzene	1	9.632	9.626	0.006	32957	0.2000	0.1723	
14 3,5-Dinitroaniline	1	9.872	9.859	0.013	39782	0.2000	0.1742	
15 Tetryl	1	9.999	9.986	0.013	34037	0.2000	0.2074	
16 Nitroglycerin	2	10.452	10.439	0.013	127804	2.00	1.99	
17 2,4,6-Trinitrotoluene	1	10.892	10.873	0.019	39424	0.2000	0.1868	
18 4-Amino-2,6-dinitrotoluene	1	11.086	11.066	0.020	28007	0.2000	0.1808	
19 2-Amino-4,6-dinitrotoluene	1	11.339	11.319	0.020	36120	0.2000	0.1793	
20 2,6-Dinitrotoluene	1	11.492	11.473	0.019	27212	0.2000	0.1906	
21 2,4-Dinitrotoluene	1	11.659	11.639	0.020	54308	0.2000	0.1831	
22 o-Nitrotoluene	1	12.479	12.459	0.020	19710	0.2000	0.1541	
23 p-Nitrotoluene	1	12.899	12.873	0.026	16804	0.2000	0.1502	
24 m-Nitrotoluene	1	13.472	13.446	0.026	20537	0.2000	0.1462	
25 PETN	2	14.632	14.599	0.033	143716	2.00	2.09	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

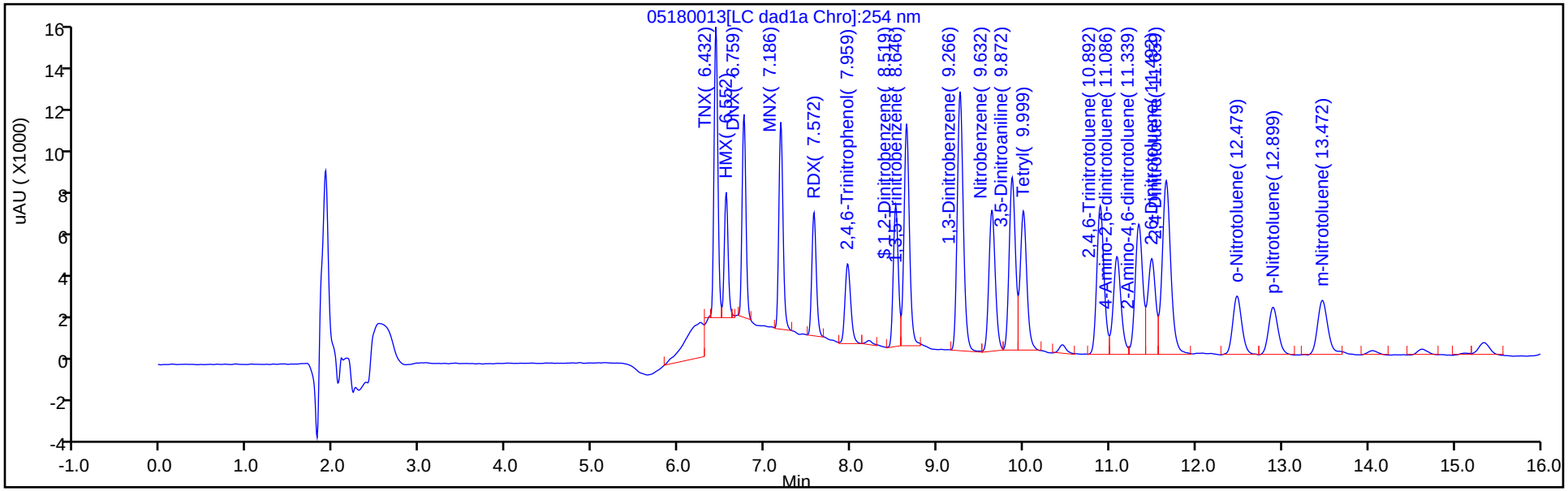
Report Date: 19-May-2023 12:21:52 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

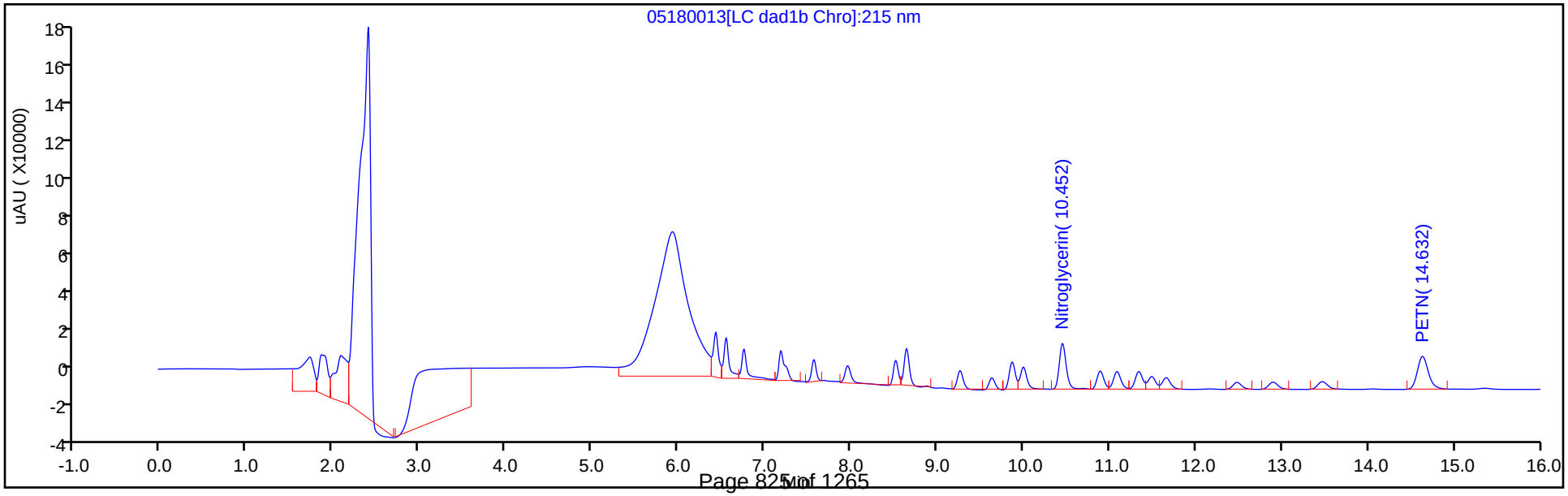
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180013.d

Injection Date:	18-May-2023 22:55:11	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	LCSD 280-612937/3-A			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



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180013.D
Lims ID: LCSD 280-612937/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 18-May-2023 22:55:11 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 280-612937/3-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:50 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 11:30:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2046	102.30

Manual Integration/User Assign Peak Report

Eurofins Denver

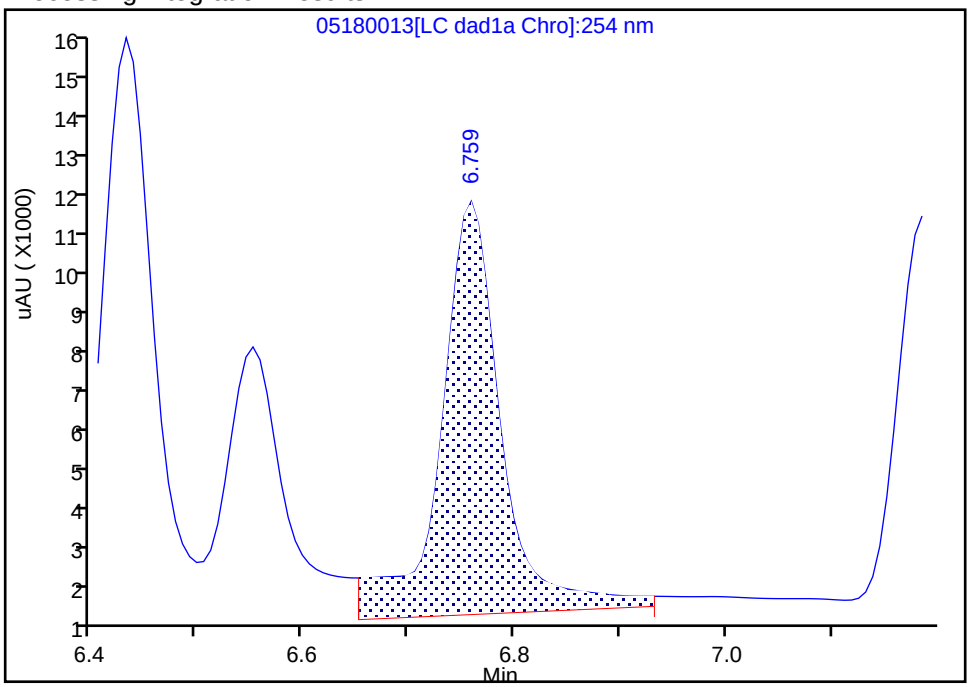
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180013.d				
Injection Date:	18-May-2023 22:55:11	Instrument ID:	CHHPLC_X3		
Lims ID:	LCSD 280-612937/3-A				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 DNX, CAS: 80251-29-2

Signal: 1

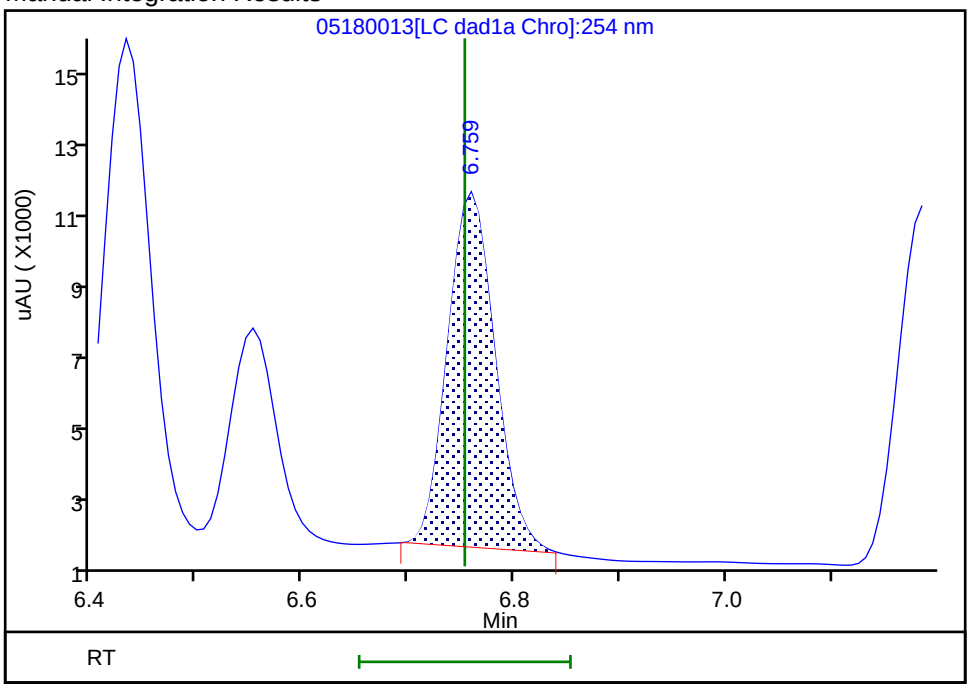
Processing Integration Results

RT: 6.76
Area: 40200
Amount: 0.278273
Amount Units: ug/mL



Manual Integration Results

RT: 6.76
Area: 28636
Amount: 0.198224
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:29:50 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

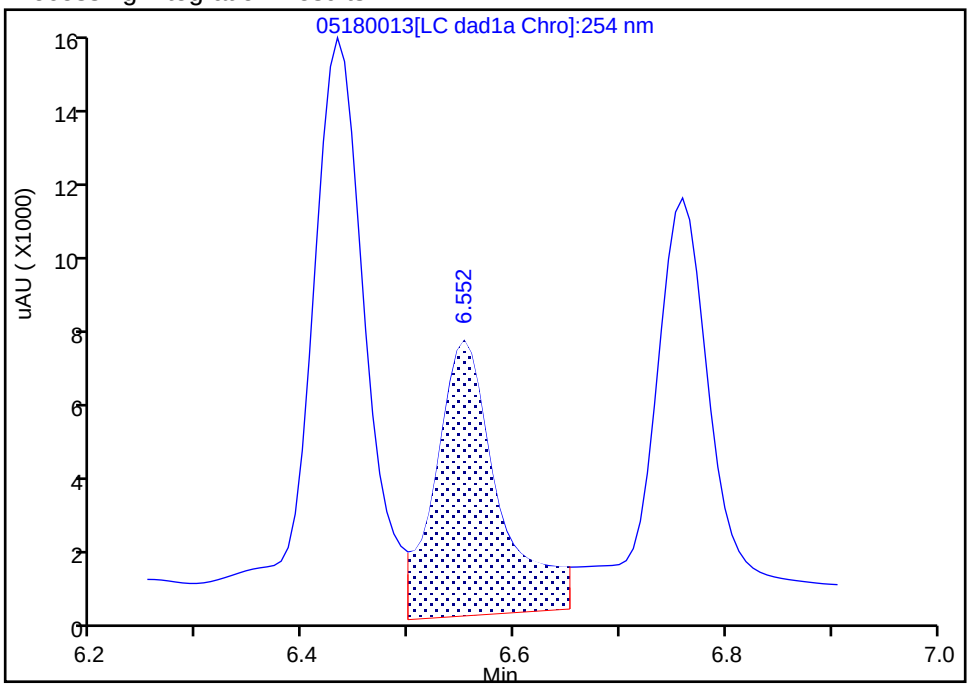
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180013.d				
Injection Date:	18-May-2023 22:55:11	Instrument ID:	CHHPLC_X3		
Lims ID:	LCSD 280-612937/3-A				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

4 HMX, CAS: 2691-41-0

Signal: 1

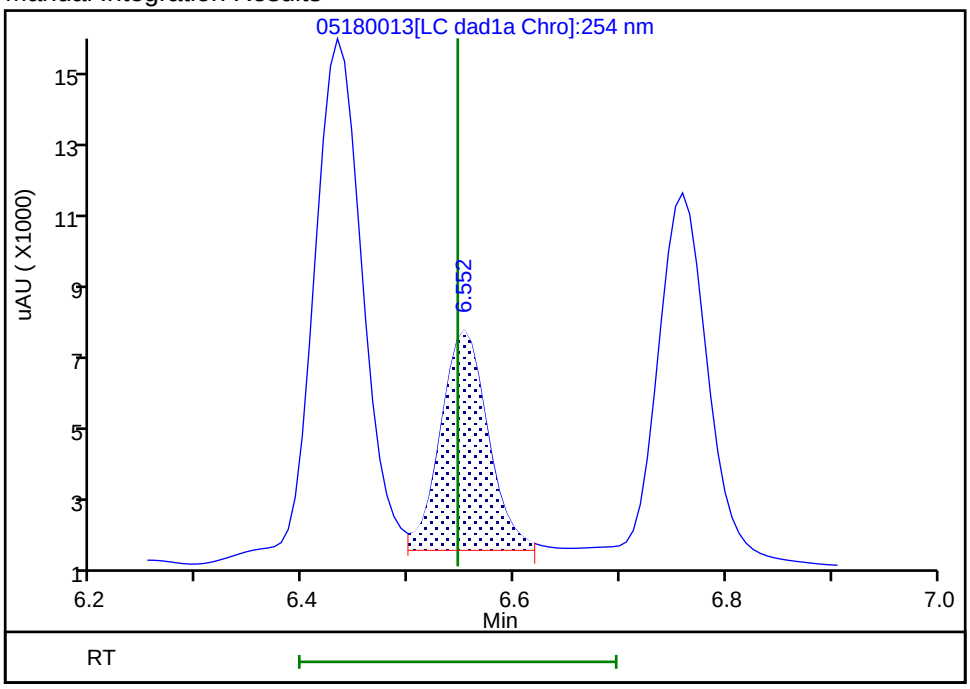
Processing Integration Results

RT: 6.55
Area: 27985
Amount: 0.299215
Amount Units: ug/mL



Manual Integration Results

RT: 6.55
Area: 17549
Amount: 0.187633
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:29:47 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

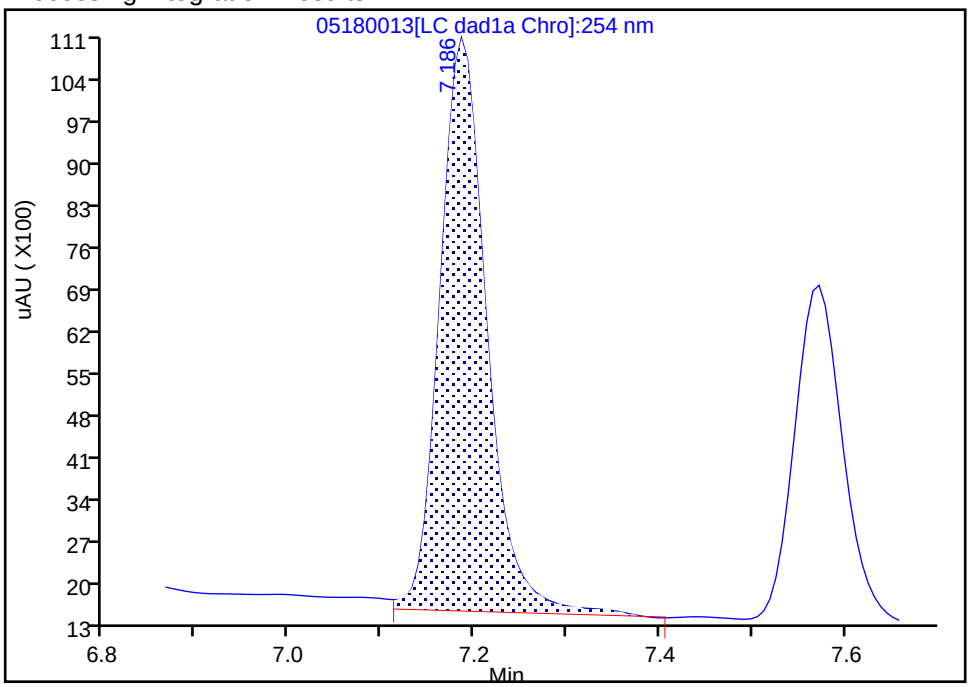
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180013.d				
Injection Date:	18-May-2023 22:55:11	Instrument ID:	CHHPLC_X3		
Lims ID:	LCSD 280-612937/3-A				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 MNX, CAS: 5755-27-1

Signal: 1

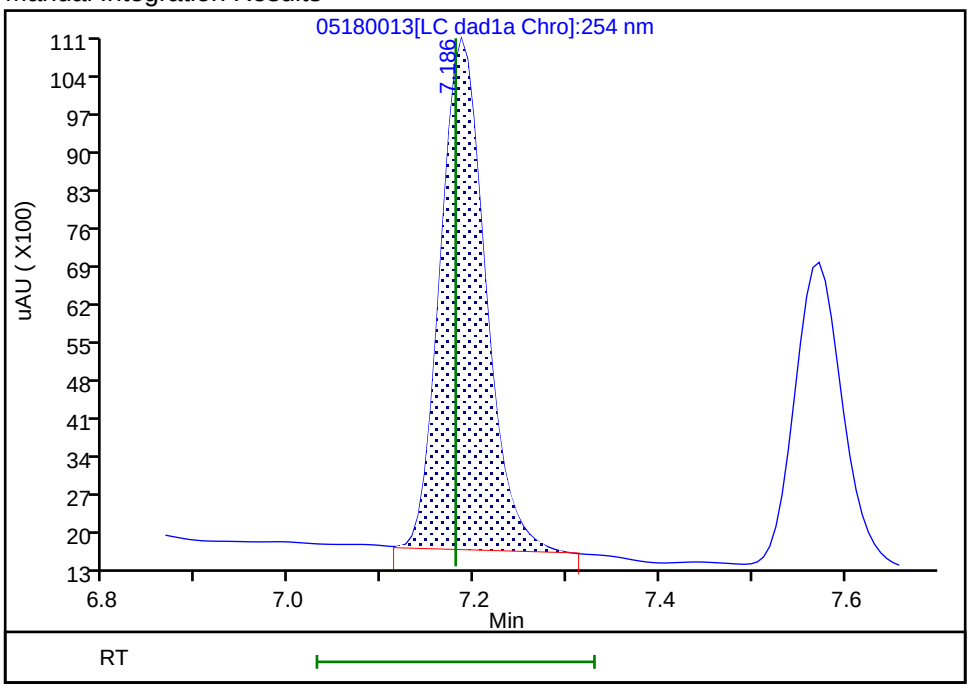
Processing Integration Results

RT: 7.19
Area: 33708
Amount: 0.256976
Amount Units: ug/mL



Manual Integration Results

RT: 7.19
Area: 31679
Amount: 0.241508
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:29:56 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

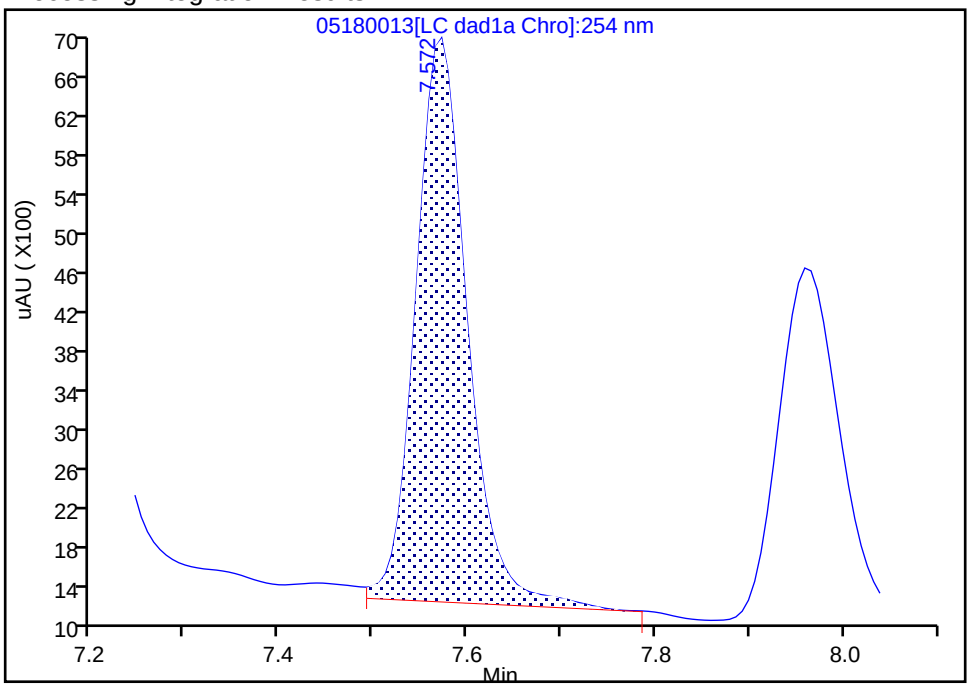
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180013.d				
Injection Date:	18-May-2023 22:55:11	Instrument ID:	CHHPLC_X3		
Lims ID:	LCSD 280-612937/3-A				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

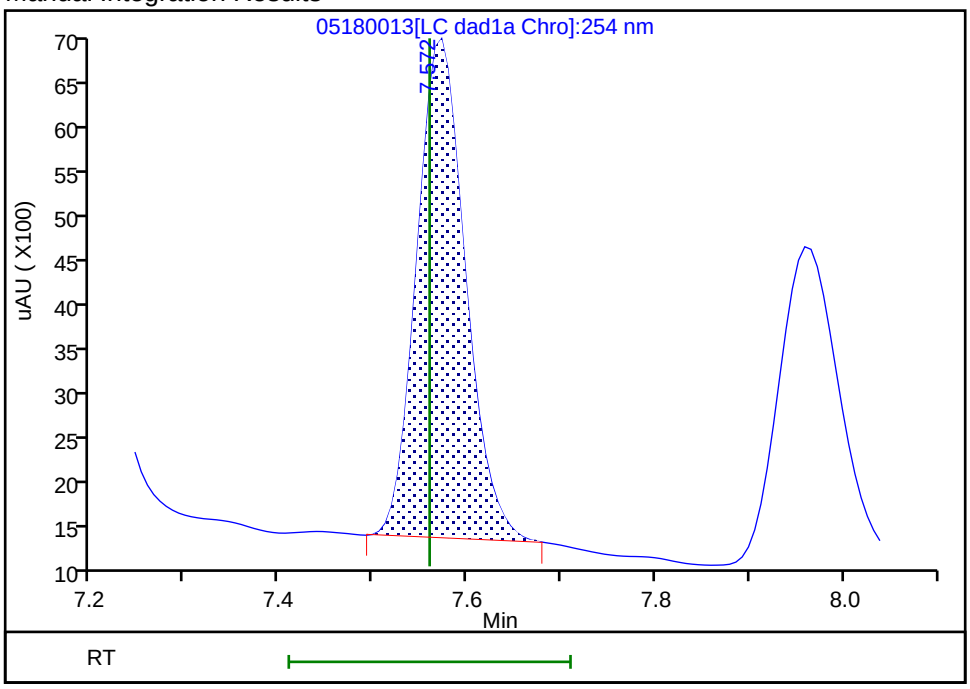
Processing Integration Results

RT: 7.57
Area: 21692
Amount: 0.203911
Amount Units: ug/mL



Manual Integration Results

RT: 7.57
Area: 20052
Amount: 0.188494
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:29:58 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

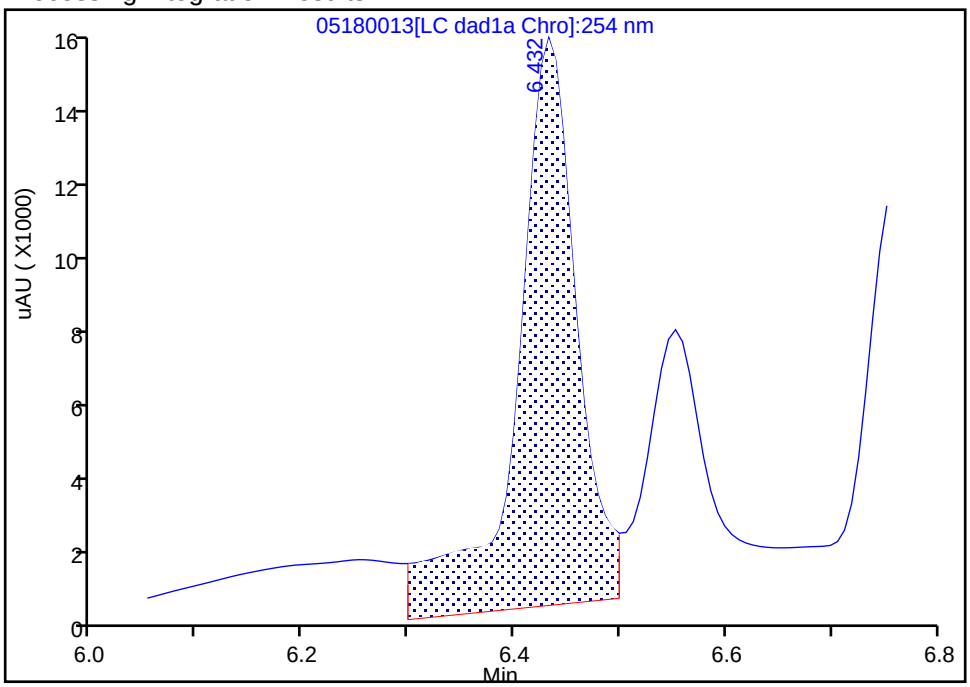
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180013.d				
Injection Date:	18-May-2023 22:55:11	Instrument ID:	CHHPLC_X3		
Lims ID:	LCSD 280-612937/3-A				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 TNX, CAS: 13980-04-6

Signal: 1

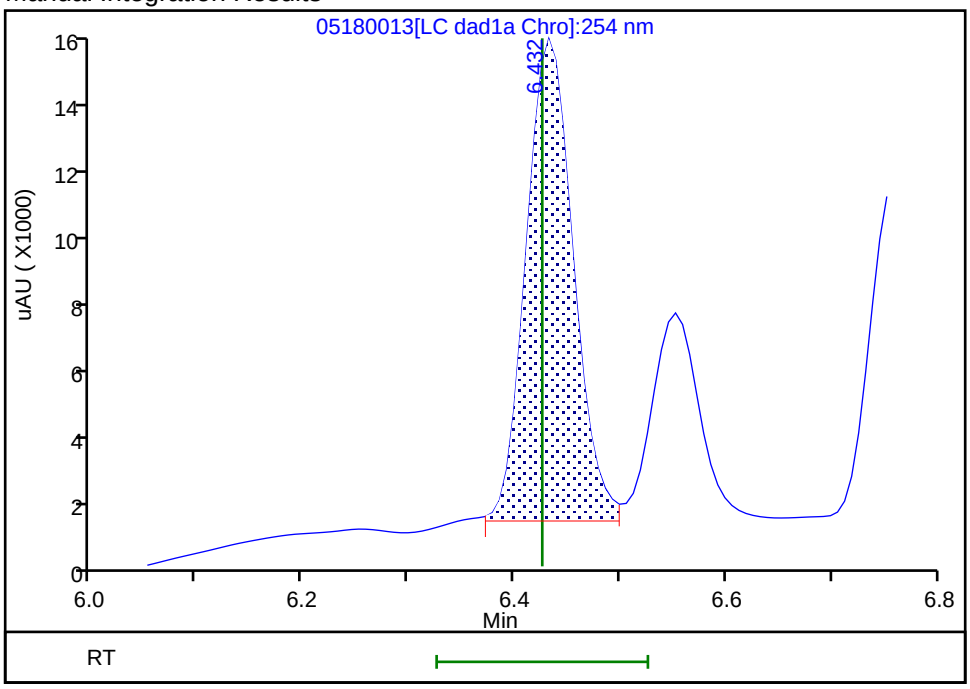
Processing Integration Results

RT: 6.43
Area: 58370
Amount: 0.295264
Amount Units: ug/mL



Manual Integration Results

RT: 6.43
Area: 40691
Amount: 0.205835
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:29:46 -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.: 280-176591-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-612937/5-A

Matrix: Water | Lab File ID: 05180015.D

Analysis Method: 8330B | Date Collected:

Extraction Method: 3535 | Date Extracted: 05/18/2023 13:20

Sample wt/vol: 500(mL) | Date Analyzed: 05/18/2023 23:41

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.: 613045 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
6629-29-4	2,4-diamino-6-nitrotoluene	1.54	M	1.0	0.90	0.43
59229-75-3	2,6-diamino-4-nitrotoluene	1.67	M	1.0	0.90	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	102		83-119

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180015.D
Lims ID: LCSD 280-612937/5-A
Client ID:
Sample Type: LCSD
Inject. Date: 18-May-2023 23:41:10 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 280-612937/5-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:50 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 11:30:51

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2	2,6-diamino-4-nitrotoluene	1	6.420	6.431	-0.011	39132	0.2000	0.1666	M
5	2,4-diamino-6-nitrotoluene	1	6.607	6.618	-0.011	22551	0.2000	0.1540	M
$ 10	1,2-Dinitrobenzene	1	8.520	8.513	0.007	25783	0.2000	0.2041	

QC Flag Legend

Review Flags
M - Manually Integrated

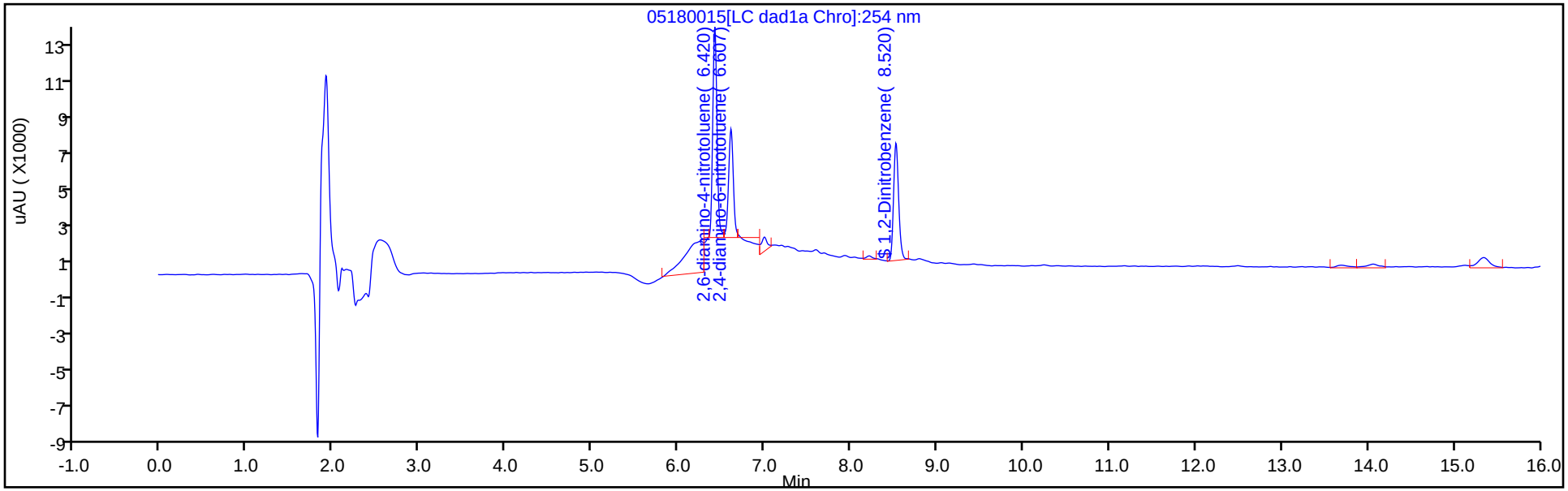
Report Date: 19-May-2023 12:21:53 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

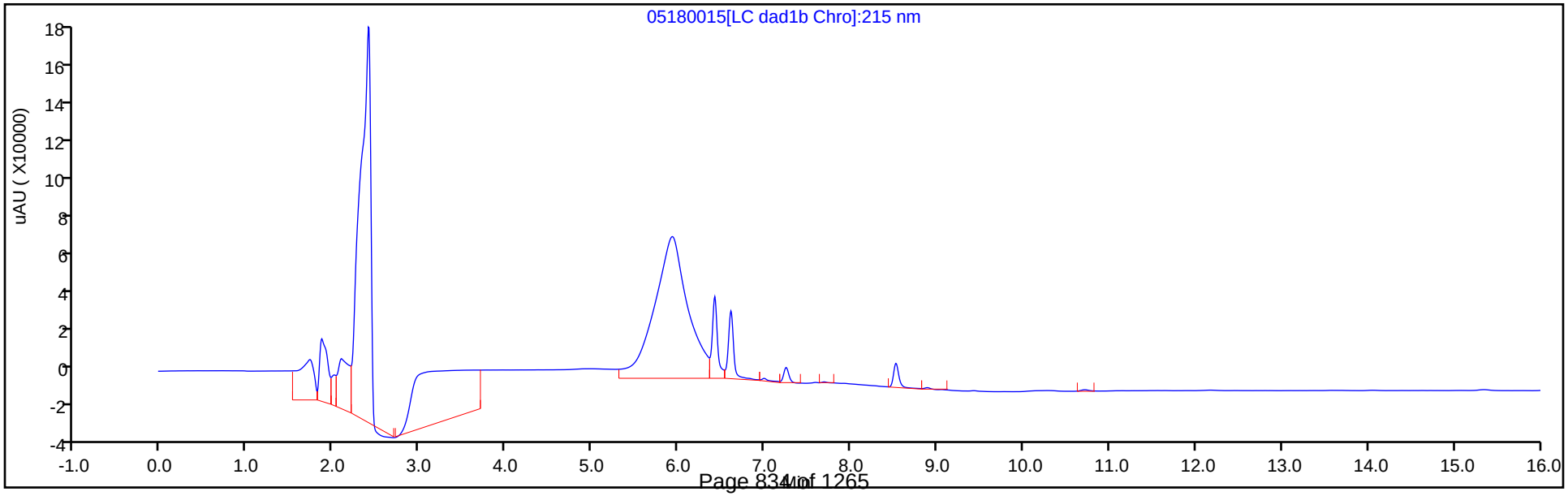
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180015.d

Injection Date:	18-May-2023 23:41:10	Instrument ID:	CHHPLC_X3	Operator ID:	JZ/JG
Lims ID:	LCSD 280-612937/5-A			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



Report Date: 19-May-2023 12:21:53 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\05180015.D
Lims ID: LCSD 280-612937/5-A
Client ID:
Sample Type: LCSD
Inject. Date: 18-May-2023 23:41:10 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 280-612937/5-A
Operator ID: JZ/JG Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20230518-121611.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 19-May-2023 12:21:50 Calib Date: 24-Feb-2023 17:41:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20230224-118952.b\02240018.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1654

First Level Reviewer: LV5D Date: 19-May-2023 11:30:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2041	102.06

Manual Integration/User Assign Peak Report

Eurofins Denver

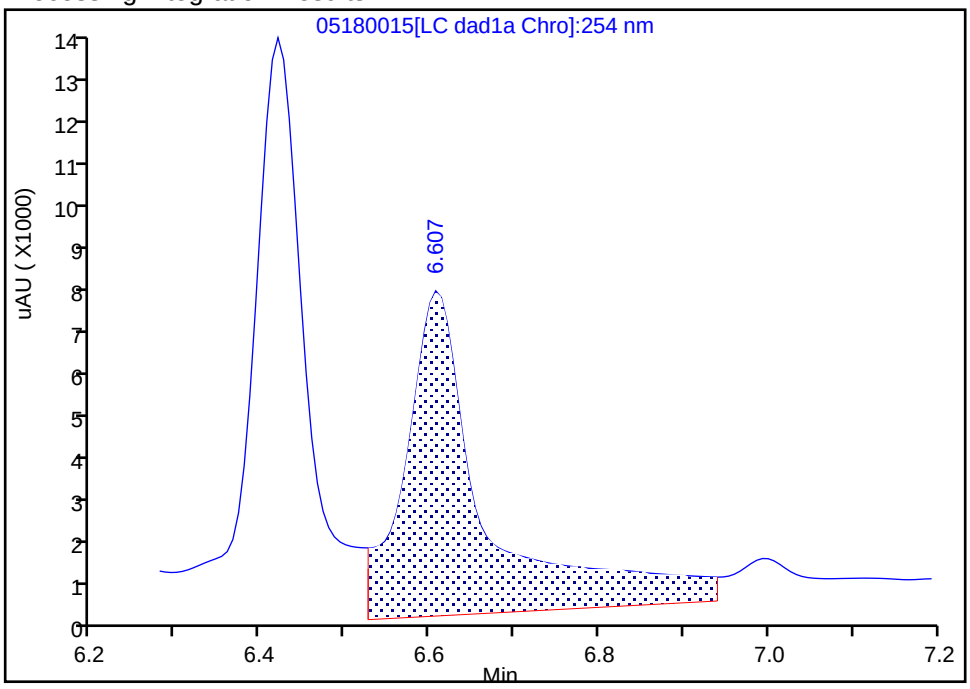
Data File:	\\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180015.d				
Injection Date:	18-May-2023 23:41:10	Instrument ID:	CHHPLC_X3		
Lims ID:	LCSD 280-612937/5-A				
Client ID:					
Operator ID:	JZ/JG	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 2,4-diamino-6-nitrotoluene, CAS: 6629-29-4

Signal: 1

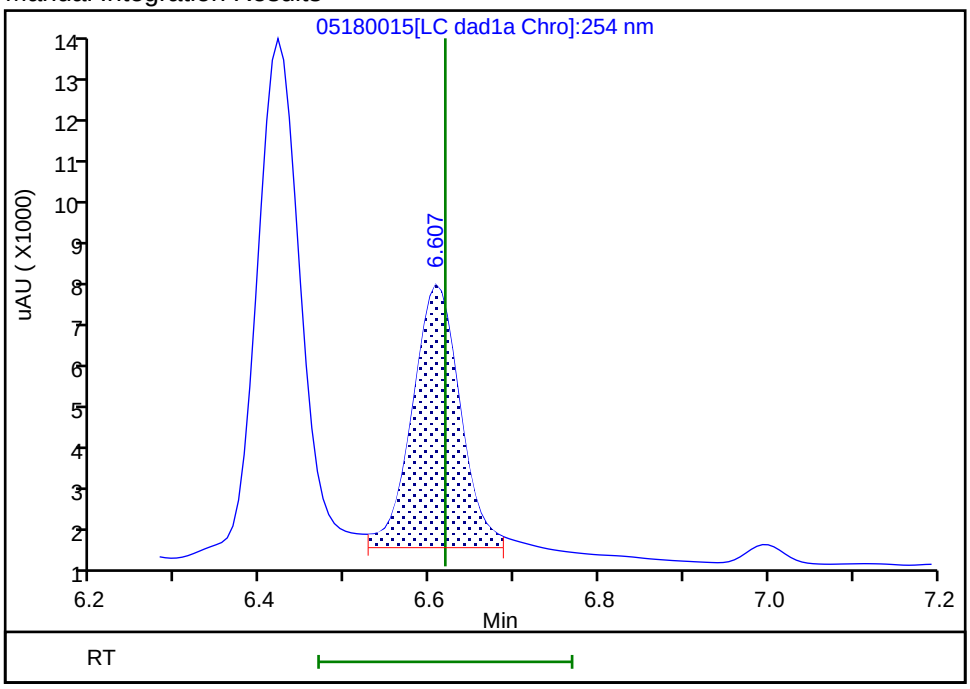
Processing Integration Results

RT: 6.61
Area: 46251
Amount: 0.315767
Amount Units: ug/mL



Manual Integration Results

RT: 6.61
Area: 22551
Amount: 0.153961
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:30:49 -06:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Denver

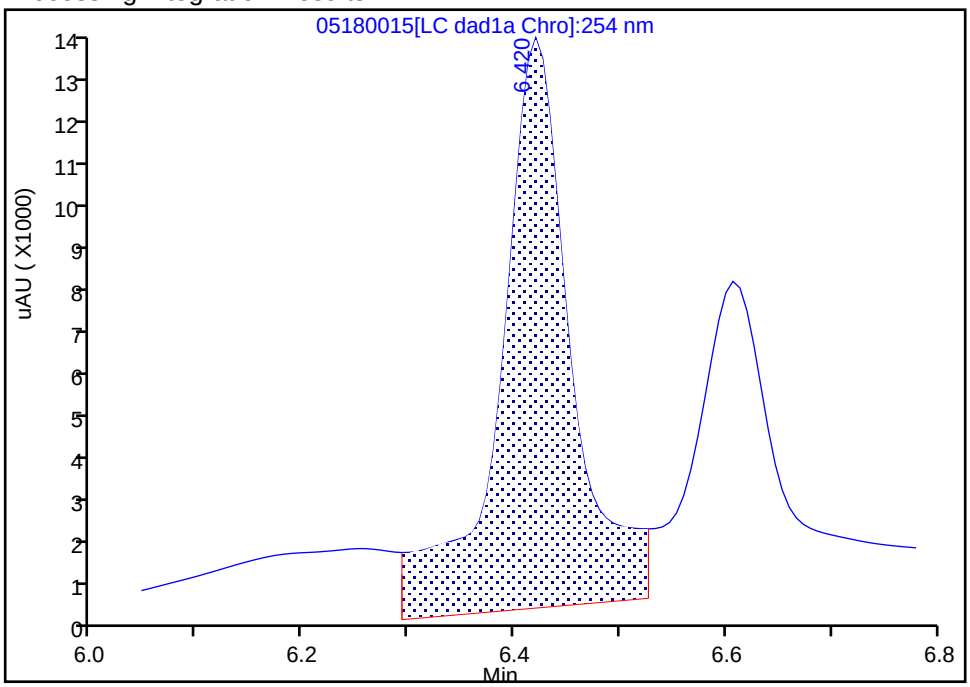
Data File: \\chromfs\denver\chromdata\chhplc_x\20230518-121611.b\05180015.d
Injection Date: 18-May-2023 23:41:10 Instrument ID: CHHPLC_X3
Lims ID: LCSD 280-612937/5-A
Client ID:
Operator ID: JZ/JG ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 2,6-diamino-4-nitrotoluene, CAS: 59229-75-3

Signal: 1

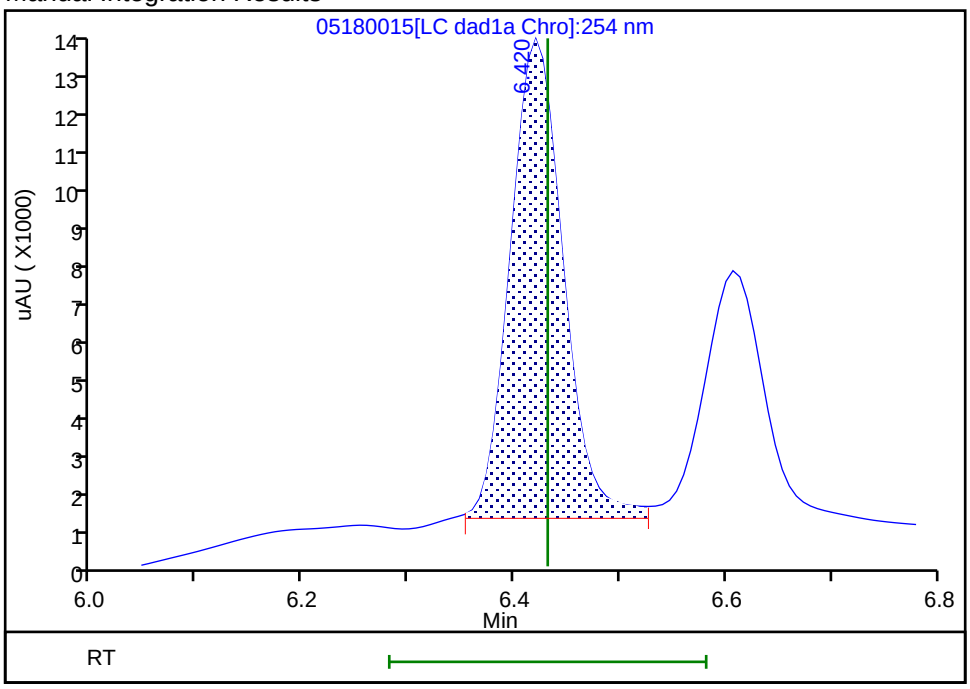
Processing Integration Results

RT: 6.42
Area: 59882
Amount: 0.256942
Amount Units: ug/mL



Manual Integration Results

RT: 6.42
Area: 39132
Amount: 0.166604
Amount Units: ug/mL



Reviewer: LV5D, 19-May-2023 11:30:48 -06:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 01/17/2023 00:33

Analysis Batch Number: 599427 End Date: 01/17/2023 07:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 280-599427/11		01/17/2023 00:33	1	01160039.D	UltraCarb5uODS 4.6(mm)
IC 280-599427/12		01/17/2023 00:56	1	01160040.D	UltraCarb5uODS 4.6(mm)
IC 280-599427/13		01/17/2023 01:19	1	01160041.D	UltraCarb5uODS 4.6(mm)
IC 280-599427/14		01/17/2023 01:43	1	01160042.D	UltraCarb5uODS 4.6(mm)
IC 280-599427/15		01/17/2023 02:06	1	01160043.D	UltraCarb5uODS 4.6(mm)
IC 280-599427/16		01/17/2023 02:30	1	01160044.D	UltraCarb5uODS 4.6(mm)
IC 280-599427/17		01/17/2023 02:53	1	01160045.D	UltraCarb5uODS 4.6(mm)
IC 280-599427/18		01/17/2023 03:16	1	01160046.D	UltraCarb5uODS 4.6(mm)
ICV 280-599427/19		01/17/2023 03:40	1	01160047.D	UltraCarb5uODS 4.6(mm)
IC 280-599427/20		01/17/2023 04:03	1		UltraCarb5uODS 4.6(mm)
IC 280-599427/21		01/17/2023 04:27	1		UltraCarb5uODS 4.6(mm)
IC 280-599427/22		01/17/2023 04:50	1		UltraCarb5uODS 4.6(mm)
IC 280-599427/23		01/17/2023 05:13	1		UltraCarb5uODS 4.6(mm)
IC 280-599427/24		01/17/2023 05:37	1		UltraCarb5uODS 4.6(mm)
IC 280-599427/25		01/17/2023 06:00	1		UltraCarb5uODS 4.6(mm)
IC 280-599427/26		01/17/2023 06:24	1		UltraCarb5uODS 4.6(mm)
IC 280-599427/27		01/17/2023 06:47	1		UltraCarb5uODS 4.6(mm)
ICV 280-599427/28		01/17/2023 07:10	1		UltraCarb5uODS 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 02/08/2023 15:38

Analysis Batch Number: 601664 End Date: 02/08/2023 19:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 280-601664/11		02/08/2023 15:38	1	02080011.D	UltraCarb5uODS 4.6(mm)
IC 280-601664/12		02/08/2023 16:01	1	02080012.D	UltraCarb5uODS 4.6(mm)
IC 280-601664/13		02/08/2023 16:24	1	02080013.D	UltraCarb5uODS 4.6(mm)
IC 280-601664/14		02/08/2023 16:47	1	02080014.D	UltraCarb5uODS 4.6(mm)
IC 280-601664/15		02/08/2023 17:10	1	02080015.D	UltraCarb5uODS 4.6(mm)
IC 280-601664/16		02/08/2023 17:33	1	02080016.D	UltraCarb5uODS 4.6(mm)
IC 280-601664/17		02/08/2023 17:56	1	02080017.D	UltraCarb5uODS 4.6(mm)
IC 280-601664/18		02/08/2023 18:19	1	02080018.D	UltraCarb5uODS 4.6(mm)
IC 280-601664/19		02/08/2023 18:42	1	02080019.D	UltraCarb5uODS 4.6(mm)
ICV 280-601664/20		02/08/2023 19:05	1	02080020.D	UltraCarb5uODS 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 02/24/2023 15:00

Analysis Batch Number: 603284 End Date: 02/24/2023 18:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 280-603284/11		02/24/2023 15:00	1	02240011.D	UltraCarb5uODS 4.6(mm)
IC 280-603284/12		02/24/2023 15:23	1	02240012.D	UltraCarb5uODS 4.6(mm)
IC 280-603284/13		02/24/2023 15:46	1	02240013.D	UltraCarb5uODS 4.6(mm)
IC 280-603284/14		02/24/2023 16:09	1	02240014.D	UltraCarb5uODS 4.6(mm)
IC 280-603284/15		02/24/2023 16:32	1	02240015.D	UltraCarb5uODS 4.6(mm)
IC 280-603284/16		02/24/2023 16:55	1	02240016.D	UltraCarb5uODS 4.6(mm)
IC 280-603284/17		02/24/2023 17:18	1	02240017.D	UltraCarb5uODS 4.6(mm)
IC 280-603284/18		02/24/2023 17:41	1	02240018.D	UltraCarb5uODS 4.6(mm)
ICV 280-603284/19		02/24/2023 18:04	1	02240019.D	UltraCarb5uODS 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X5 Start Date: 04/28/2023 18:24

Analysis Batch Number: 610603 End Date: 04/29/2023 04:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 280-610603/10		04/28/2023 18:24	1	04280010.D	Luna-phenylhex 4.6(mm)
IC 280-610603/11		04/28/2023 18:59	1	04280011.D	Luna-phenylhex 4.6(mm)
IC 280-610603/12		04/28/2023 19:34	1	04280012.D	Luna-phenylhex 4.6(mm)
IC 280-610603/13		04/28/2023 20:08	1	04280013.D	Luna-phenylhex 4.6(mm)
IC 280-610603/14		04/28/2023 20:43	1	04280014.D	Luna-phenylhex 4.6(mm)
IC 280-610603/15		04/28/2023 21:18	1	04280015.D	Luna-phenylhex 4.6(mm)
IC 280-610603/16		04/28/2023 21:53	1	04280016.D	Luna-phenylhex 4.6(mm)
IC 280-610603/17		04/28/2023 22:28	1	04280017.D	Luna-phenylhex 4.6(mm)
IC 280-610603/18		04/28/2023 23:03	1	04280018.D	Luna-phenylhex 4.6(mm)
ICV 280-610603/19		04/28/2023 23:38	1	04280019.D	Luna-phenylhex 4.6(mm)
IC 280-610603/20		04/29/2023 00:13	1	04280020.D	Luna-phenylhex 4.6(mm)
IC 280-610603/21		04/29/2023 00:48	1	04280021.D	Luna-phenylhex 4.6(mm)
IC 280-610603/22		04/29/2023 01:23	1	04280022.D	Luna-phenylhex 4.6(mm)
IC 280-610603/23		04/29/2023 01:58	1	04280023.D	Luna-phenylhex 4.6(mm)
IC 280-610603/24		04/29/2023 02:33	1	04280024.D	Luna-phenylhex 4.6(mm)
IC 280-610603/25		04/29/2023 03:08	1	04280025.D	Luna-phenylhex 4.6(mm)
IC 280-610603/26		04/29/2023 03:43	1	04280026.D	Luna-phenylhex 4.6(mm)
IC 280-610603/27		04/29/2023 04:18	1	04280027.D	Luna-phenylhex 4.6(mm)
ICV 280-610603/28		04/29/2023 04:52	1	04280028.D	Luna-phenylhex 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 05/18/2023 21:23

Analysis Batch Number: 613045 End Date: 05/19/2023 10:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-613045/8		05/18/2023 21:23	1	05180008.D	UltraCarb5uODS 4.6(mm)
CCV 280-613045/9		05/18/2023 21:46	1	05180009.D	UltraCarb5uODS 4.6(mm)
MB 280-612937/1-A		05/18/2023 22:09	1	05180011.D	UltraCarb5uODS 4.6(mm)
LCS 280-612937/2-A		05/18/2023 22:32	1	05180012.D	UltraCarb5uODS 4.6(mm)
LCSD 280-612937/3-A		05/18/2023 22:55	1	05180013.D	UltraCarb5uODS 4.6(mm)
LCS 280-612937/4-A		05/18/2023 23:18	1	05180014.D	UltraCarb5uODS 4.6(mm)
LCSD 280-612937/5-A		05/18/2023 23:41	1	05180015.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		05/19/2023 00:04	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/19/2023 00:27	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/19/2023 00:49	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/19/2023 01:12	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/19/2023 01:35	1		UltraCarb5uODS 4.6(mm)
CCV 280-613045/21		05/19/2023 01:58	1	05180021.D	UltraCarb5uODS 4.6(mm)
CCV 280-613045/22		05/19/2023 02:21	1	05180022.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		05/19/2023 02:44	1		UltraCarb5uODS 4.6(mm)
280-176591-1	WBGmw-014-230401-GW	05/19/2023 03:07	1	05180024.D	UltraCarb5uODS 4.6(mm)
280-176591-2	WBGmw-006-230401-GW	05/19/2023 03:30	1	05180025.D	UltraCarb5uODS 4.6(mm)
280-176591-3	WBGmw-021-230401-GW	05/19/2023 03:53	1	05180026.D	UltraCarb5uODS 4.6(mm)
280-176591-4	WBGmw-009-230401-GW	05/19/2023 04:16	1	05180027.D	UltraCarb5uODS 4.6(mm)
280-176591-5	WBGmw-020-230401-GW	05/19/2023 04:39	1	05180028.D	UltraCarb5uODS 4.6(mm)
280-176591-6	WBGmw-018-230401-GW	05/19/2023 05:02	1	05180029.D	UltraCarb5uODS 4.6(mm)
280-176591-7	WBGMW-RBmw-018-2023	05/19/2023 05:25	1	05180030.D	UltraCarb5uODS 4.6(mm)
280-176591-8	WBGmw-016-230401-GW	05/19/2023 05:48	1	05180031.D	UltraCarb5uODS 4.6(mm)
280-176591-9	WBGmw-017-230401-GW	05/19/2023 06:11	1	05180032.D	UltraCarb5uODS 4.6(mm)
CCV 280-613045/33		05/19/2023 06:34	1	05180033.D	UltraCarb5uODS 4.6(mm)
CCV 280-613045/34		05/19/2023 06:57	1	05180034.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		05/19/2023 07:19	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/19/2023 07:42	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/19/2023 08:05	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/19/2023 08:28	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/19/2023 08:51	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		05/19/2023 09:14	1		UltraCarb5uODS 4.6(mm)
CCV 280-613045/41		05/19/2023 09:37	1	05180041.D	UltraCarb5uODS 4.6(mm)
CCV 280-613045/42		05/19/2023 10:00	1	05180042.D	UltraCarb5uODS 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: CHHPLC_X5 Start Date: 05/19/2023 16:43

Analysis Batch Number: 613172 End Date: 05/20/2023 02:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-613172/9		05/19/2023 16:43	1	05190009.D	Luna-phenylhex 4.6(mm)
ZZZZZ		05/19/2023 17:18	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/19/2023 18:28	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/19/2023 19:03	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/19/2023 19:38	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/19/2023 20:13	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/19/2023 20:48	1		Luna-phenylhex 4.6(mm)
280-176591-2	WBGmw-006-230401-GW	05/19/2023 21:23	1	05190016.D	Luna-phenylhex 4.6(mm)
ZZZZZ		05/19/2023 21:58	1		Luna-phenylhex 4.6(mm)
280-176591-4	WBGmw-009-230401-GW	05/19/2023 22:33	1	05190018.D	Luna-phenylhex 4.6(mm)
280-176591-5	WBGmw-020-230401-GW	05/19/2023 23:08	1	05190019.D	Luna-phenylhex 4.6(mm)
CCV 280-613172/20		05/19/2023 23:43	1	05190020.D	Luna-phenylhex 4.6(mm)
280-176591-6	WBGmw-018-230401-GW	05/20/2023 00:18	1	05190021.D	Luna-phenylhex 4.6(mm)
280-176591-7	WBGMW-RBmw-018-2023	05/20/2023 00:52	1	05190022.D	Luna-phenylhex 4.6(mm)
ZZZZZ		05/20/2023 01:27	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/20/2023 02:02	1		Luna-phenylhex 4.6(mm)
CCV 280-613172/25		05/20/2023 02:37	1	05190025.D	Luna-phenylhex 4.6(mm)

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Batch Number: 599427 Batch Start Date: 01/17/23 00:33 Batch Analyst: Zhang, Jian

Batch Method: 8330B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	3,5-DNA LCS 00042	8330_ADDs 00035	8330DiaminLCS 00052		
IC 280-599427/11		8330B		1 mL		125 uL			
IC 280-599427/12		8330B		1 mL		50 uL			
IC 280-599427/13		8330B		1 mL		35 uL			
IC 280-599427/14		8330B		1 mL		20 uL			
IC 280-599427/15		8330B		1 mL		12.5 uL			
IC 280-599427/16		8330B		1 mL		5 uL			
IC 280-599427/17		8330B		1 mL		2.5 uL			
IC 280-599427/18		8330B		1 mL		1 uL			
ICV 280-599427/19		8330B		1 mL	50 uL		50 uL		

Batch Notes	
Methanol ID	221054

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.: 280-176591-1

SDG No.:

Batch Number: 601664 Batch Start Date: 02/08/23 15:38 Batch Analyst: Zhang, Jian

Batch Method: 8330B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	3,5-DNA LCS 00043	8330 LCS 00121	8330IntermStk 00075	8330Surrogate 00138	
IC 280-601664/11		8330B		1 mL			250 uL		
IC 280-601664/12		8330B		1 mL			100 uL		
IC 280-601664/13		8330B		1 mL			70 uL		
IC 280-601664/14		8330B		1 mL			40 uL		
IC 280-601664/15		8330B		1 mL			25 uL		
IC 280-601664/16		8330B		1 mL			10 uL		
IC 280-601664/17		8330B		1 mL			5 uL		
IC 280-601664/18		8330B		1 mL			2 uL		
IC 280-601664/19		8330B		1 mL			1 uL		
ICV 280-601664/20		8330B		1 mL	50 uL	50 uL		50 uL	

Batch Notes	
Methanol ID	221054

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.: 280-176591-1

SDG No.:

Batch Number: 603284 Batch Start Date: 02/24/23 15:00 Batch Analyst: Zhang, Jian

Batch Method: 8330B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	8330 DMT 00013	8330_OP_DMT 00016			
IC 280-603284/11		8330B		1 mL	125 uL				
IC 280-603284/12		8330B		1 mL	50 uL				
IC 280-603284/13		8330B		1 mL	35 uL				
IC 280-603284/14		8330B		1 mL	20 uL				
IC 280-603284/15		8330B		1 mL	12.5 uL				
IC 280-603284/16		8330B		1 mL	5 uL				
IC 280-603284/17		8330B		1 mL	2.5 uL				
IC 280-603284/18		8330B		1 mL	1 uL				
ICV 280-603284/19		8330B		1 mL		50 uL			

Batch Notes	
Methanol ID	221054

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.: 280-176591-1

SDG No.:

Batch Number: 610603 Batch Start Date: 04/28/23 18:24 Batch Analyst: Zhang, Jian

Batch Method: 8330B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	8330 DMT 00013	8330 LCS 00126	8330_ADDs 00036	8330_OP_DMT 00017	8330DiaminLCS 00056
IC 280-610603/10		8330B		1 mL	125 uL				
IC 280-610603/11		8330B		1 mL	50 uL				
IC 280-610603/12		8330B		1 mL	35 uL				
IC 280-610603/13		8330B		1 mL	20 uL				
IC 280-610603/14		8330B		1 mL	12.5 uL				
IC 280-610603/15		8330B		1 mL	5 uL				
IC 280-610603/16		8330B		1 mL	2.5 uL				
IC 280-610603/17		8330B		1 mL	1 uL				
IC 280-610603/18		8330B		1 mL	0.5 uL				
ICV 280-610603/19		8330B		1 mL		50 uL		50 uL	
IC 280-610603/20		8330B		1 mL			125 uL		
IC 280-610603/21		8330B		1 mL			50 uL		
IC 280-610603/22		8330B		1 mL			35 uL		
IC 280-610603/23		8330B		1 mL			20 uL		
IC 280-610603/24		8330B		1 mL			12.5 uL		
IC 280-610603/25		8330B		1 mL			5 uL		
IC 280-610603/26		8330B		1 mL			2 uL		
IC 280-610603/27		8330B		1 mL			1 uL		
ICV 280-610603/28		8330B		1 mL					50 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	8330IntermStk 00076	8330Surrogate 00143				

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.: 280-176591-1

SDG No.:

Batch Number: 610603 Batch Start Date: 04/28/23 18:24 Batch Analyst: Zhang, Jian

Batch Method: 8330B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	8330IntermStk 00076	8330Surrogate 00143				
IC 280-610603/10		8330B		250 uL					
IC 280-610603/11		8330B		100 uL					
IC 280-610603/12		8330B		70 uL					
IC 280-610603/13		8330B		40 uL					
IC 280-610603/14		8330B		25 uL					
IC 280-610603/15		8330B		10 uL					
IC 280-610603/16		8330B		5 uL					
IC 280-610603/17		8330B		2 uL					
IC 280-610603/18		8330B		1 uL					
ICV 280-610603/19		8330B			50 uL				
IC 280-610603/20		8330B							
IC 280-610603/21		8330B							
IC 280-610603/22		8330B							
IC 280-610603/23		8330B							
IC 280-610603/24		8330B							
IC 280-610603/25		8330B							
IC 280-610603/26		8330B							
IC 280-610603/27		8330B							
ICV 280-610603/28		8330B							

Batch Notes	
Methanol ID	221056

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.: 280-176591-1

SDG No.:

Batch Number: 610603 Batch Start Date: 04/28/23 18:24 Batch Analyst: Zhang, Jian

Batch Method: 8330B 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.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Batch Number: 612937 Batch Start Date: 05/18/23 13:20 Batch Analyst: Hermanova, Eva

Batch Method: 3535 Batch End Date: 05/18/23 16:53

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	8330 LCS 00126	8330_OP_DMT 00020
MB 280-612937/1		3535, 8330B				500 mL	5 mL		
LCS 280-612937/2		3535, 8330B				500 mL	5 mL	0.1 mL	0.1 mL
LCSD 280-612937/3		3535, 8330B				500 mL	5 mL	0.1 mL	0.1 mL
LCS 280-612937/4		3535, 8330B				500 mL	5 mL		
LCSD 280-612937/5		3535, 8330B				500 mL	5 mL		
280-176591-B-1	WBGmw-014-230401-GW	3535, 8330B	T	777.6 g	283.8 g	493.8 mL	5 mL		
280-176591-B-2	WBGmw-006-230401-GW	3535, 8330B	T	771.7 g	283.6 g	488.1 mL	5 mL		
280-176591-B-3	WBGmw-021-230401-GW	3535, 8330B	T	783.7 g	285.6 g	498.1 mL	5 mL		
280-176591-A-4	WBGmw-009-230401-GW	3535, 8330B	T	743.5 g	284.5 g	459 mL	5 mL		
280-176591-B-5	WBGmw-020-230401-GW	3535, 8330B	T	781.8 g	285.9 g	495.9 mL	5 mL		
280-176591-B-6	WBGmw-018-230401-GW	3535, 8330B	T	757.6 g	285.1 g	472.5 mL	5 mL		
280-176591-A-7	WBGMW-RBmw-018-2023	3535, 8330B	T	794.9 g	285.1 g	509.8 mL	5 mL		
280-176591-A-8	WBGmw-016-230401-GW	3535, 8330B	T	749.2 g	284.2 g	465 mL	5 mL		
280-176591-A-9	WBGmw-017-230401-GW	3535, 8330B	T	794.0 g	285.6 g	508.4 mL	5 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	8330DiaminLCS 00056	8330Surrogate 00143				
MB 280-612937/1		3535, 8330B			0.1 mL				
LCS 280-612937/2		3535, 8330B			0.1 mL				
LCSD 280-612937/3		3535, 8330B			0.1 mL				
LCS 280-612937/4		3535, 8330B		0.1 mL	0.1 mL				
LCSD 280-612937/5		3535, 8330B		0.1 mL	0.1 mL				
280-176591-B-1	WBGmw-014-230401-GW	3535, 8330B	T		0.1 mL				

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.: 280-176591-1

SDG No.:

Batch Number: 612937 Batch Start Date: 05/18/23 13:20 Batch Analyst: Hermanova, Eva

Batch Method: 3535 Batch End Date: 05/18/23 16:53

Lab Sample ID	Client Sample ID	Method Chain	Basis	8330DiaminLCS 00056	8330Surrogate 00143				
280-176591-B-2	WBGmw-006-230401-GW	3535, 8330B	T		0.1 mL				
280-176591-B-3	WBGmw-021-230401-GW	3535, 8330B	T		0.1 mL				
280-176591-A-4	WBGmw-009-230401-GW	3535, 8330B	T		0.1 mL				
280-176591-B-5	WBGmw-020-230401-GW	3535, 8330B	T		0.1 mL				
280-176591-B-6	WBGmw-018-230401-GW	3535, 8330B	T		0.1 mL				
280-176591-A-7	WBGMW-RBmw-018-2023	3535, 8330B	T		0.1 mL				
280-176591-A-8	WBGmw-016-230401-GW	3535, 8330B	T		0.1 mL				
280-176591-A-9	WBGmw-017-230401-GW	3535, 8330B	T		0.1 mL				

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.: 280-176591-1

SDG No.:

Batch Number: 612937 Batch Start Date: 05/18/23 13:20 Batch Analyst: Hermanova, Eva

Batch Method: 3535 Batch End Date: 05/18/23 16:53

Batch Notes	
First Start time	05/18/2023 13:36
First End time	05/18/2023 16:07
SPE Cartridge Type	Sep-Pak Porapak Rdx
SPE Cartridge Lot ID	005332286A
Balance ID	24350888
Manifold ID	Manifold: A, B
QC Bottle Lot ID	02024011
Pipette/Syringe/Dispenser ID	Dobby/DOD/Pugsley
Solvent Name	CaCl2
Solvent Lot #	CaCl2_Sol_00085
Rinse Solvent Name	Acetonotrile
Rinse Solvent Lot	Acetonitrile_00078
Acid Name	0.1% AAinACN
Acid ID	0.1% AAinACN_00207
Analyst ID - Spike Analyst	EH (Trainee); Trainer: DL
Analyst ID - Spike Witness Analyst	Reviewer: NC
Batch Comment	DV-OP-0017

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: 280-176591-1

SDG No.:

Project: RVAAP FWGW

Client Sample ID	Lab Sample ID
WBGmw-006-230401-GW	280-176591-2
WBGmw-009-230401-GW	280-176591-4
WBGmw-018-230401-GW	280-176591-6
WBGMW-RBmw-018-2023	280-176591-7

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: WBGmw-006-230401-GW
Lab Sample ID: 280-176591-2
Lab Name: Eurofins Denver
Job No.: 280-176591-1
SDG ID.:
Matrix: Water
Date Sampled: 05/16/2023 13:56
Reporting Basis: WET
Date Received: 05/17/2023 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Sulfide	2.0	4.0	2.0	1.6	mg/L	U		1	9034
Nitrate as N	0.20	0.50	0.20	0.090	mg/L	U		1	9056
Nitrite as N	0.10	0.50	0.10	0.049	mg/L	U		1	9056
Sulfate	24	5.0	2.5	1.0	mg/L		M	1	9056A
Total Organic Carbon - Average	2.0	1.0	0.80	0.35	mg/L			1	9060
Alkalinity	270	10	6.4	3.1	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: WBGmw-009-230401-GW
Lab Sample ID: 280-176591-4
Lab Name: Eurofins Denver
Job No.: 280-176591-1
SDG ID.:
Matrix: Water
Date Sampled: 05/16/2023 11:36
Reporting Basis: WET
Date Received: 05/17/2023 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Sulfide	2.0	4.0	2.0	1.6	mg/L	U		1	9034
Nitrate as N	0.35	0.50	0.20	0.090	mg/L	J	M	1	9056
Nitrite as N	0.10	0.50	0.10	0.049	mg/L	U		1	9056
Sulfate	15	5.0	2.5	1.0	mg/L		M	1	9056A
Total Organic Carbon - Average	0.85	1.0	0.80	0.35	mg/L	J		1	9060
Alkalinity	180	10	6.4	3.1	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: WBGmw-018-230401-GW
Lab Sample ID: 280-176591-6
Lab Name: Eurofins Denver
Job No.: 280-176591-1
SDG ID.:
Matrix: Water
Date Sampled: 05/16/2023 09:39
Reporting Basis: WET
Date Received: 05/17/2023 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Sulfide	2.0	4.0	2.0	1.6	mg/L	U		1	9034
Nitrate as N	0.45	0.50	0.20	0.090	mg/L	J	M	1	9056
Nitrite as N	0.10	0.50	0.10	0.049	mg/L	U		1	9056
Sulfate	9.6	5.0	2.5	1.0	mg/L		M	1	9056A
Total Organic Carbon - Average	1.4	1.0	0.80	0.35	mg/L			1	9060
Alkalinity	49	10	6.4	3.1	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: WBGMW-RBmw-018-2023 Lab Sample ID: 280-176591-7

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG ID.:

Matrix: Water Date Sampled: 05/16/2023 14:00

Reporting Basis: WET Date Received: 05/17/2023 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Sulfide	2.0	4.0	2.0	1.6	mg/L	U		1	9034
Nitrate as N	0.20	0.50	0.20	0.090	mg/L	U		1	9056
Nitrite as N	0.10	0.50	0.10	0.049	mg/L	U		1	9056
Sulfate	2.5	5.0	2.5	1.0	mg/L	U	M	1	9056A
Total Organic Carbon - Average	0.36	1.0	0.80	0.35	mg/L	J		1	9060
Alkalinity	4.7	10	6.4	3.1	mg/L	J		1	SM 2320B

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Analyst: EJS Batch Start Date: 04/12/2023

Reporting Units: mg/L Analytical Batch No.: 608435

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
7	ICV	15:34	Nitrate as N	2.15	2.00	107	90-110		IC ICV 5_00403
			Nitrite as N	2.12	2.00	106	90-110		IC ICV 5_00403
8	ICB	15:49	Nitrate as N	0.20				U	
			Nitrite as N	0.10				U	

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.: 280-176591-1

SDG No.:

Analyst: MEC Batch Start Date: 05/17/2023

Reporting Units: mg/L Analytical Batch No.: 612808

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	11:46	Nitrate as N	2.42	2.50	97	90-110		IC LCS_01954
			Nitrite as N	2.32	2.50	93	90-110		IC LCS_01954
2	CCB	12:01	Nitrate as N	0.20				U	
			Nitrite as N	0.10				U	
17	CCV	15:56	Nitrate as N	2.41	2.50	96	90-110		IC LCS_01954
			Nitrite as N	2.34	2.50	94	90-110		IC LCS_01954
18	CCB	16:11	Nitrate as N	0.20				U	
			Nitrite as N	0.10				U	
29	CCV	18:57	Nitrate as N	2.38	2.50	95	90-110		IC LCS_01954
			Nitrite as N	2.32	2.50	93	90-110		IC LCS_01954
30	CCB	19:12	Nitrate as N	0.20				U	
			Nitrite as N	0.10				U	
41	CCV	21:58	Nitrate as N	2.38	2.50	95	90-110		IC LCS_01954
			Nitrite as N	2.34	2.50	94	90-110		IC LCS_01954
42	CCB	22:13	Nitrate as N	0.20				U	
			Nitrite as N	0.10				U	
53	CCV	00:57	Nitrate as N	2.40	2.50	96	90-110		IC LCS_01954
			Nitrite as N	2.32	2.50	93	90-110		IC LCS_01954
54	CCB	01:12	Nitrate as N	0.20				U	
			Nitrite as N	0.10				U	
65	CCV	03:57	Nitrate as N	2.38	2.50	95	90-110		IC LCS_01954
			Nitrite as N	2.35	2.50	94	90-110		IC LCS_01954
66	CCB	04:12	Nitrate as N	0.20				U	
			Nitrite as N	0.10				U	

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.: 280-176591-1

SDG No.:

Analyst: EJS Batch Start Date: 04/12/2023

Reporting Units: mg/L Analytical Batch No.: 608436

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
7	ICV	15:34	Sulfate	86.9	80.0	109	90-110		IC SO4 ICV_00024
8	ICB	15:49	Sulfate	2.5				U	

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.: 280-176591-1

SDG No.:

Analyst: MEC Batch Start Date: 05/17/2023

Reporting Units: mg/L Analytical Batch No.: 612809

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	11:46	Sulfate	47.5	50.0	95	90-110		IC LCS_01954
2	CCB	12:01	Sulfate	2.5				U	
17	CCV	15:56	Sulfate	47.8	50.0	96	90-110		IC LCS_01954
18	CCB	16:11	Sulfate	2.5				U	
29	CCV	18:57	Sulfate	47.3	50.0	95	90-110		IC LCS_01954
30	CCB	19:12	Sulfate	2.5				U	
41	CCV	21:58	Sulfate	47.3	50.0	95	90-110		IC LCS_01954
42	CCB	22:13	Sulfate	2.5				U	
53	CCV	00:57	Sulfate	47.9	50.0	96	90-110		IC LCS_01954
54	CCB	01:12	Sulfate	2.5				U	
65	CCV	03:57	Sulfate	47.4	50.0	95	90-110		IC LCS_01954
66	CCB	04:12	Sulfate	2.5				U	

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.: 280-176591-1

SDG No.:

Analyst: ABW Batch Start Date: 05/31/2023

Reporting Units: mg/L Analytical Batch No.: 614617

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	17:16	Total Organic Carbon - Average	20.2	20.0	101	90-110		TOC ICV Std_00051
2	ICB	17:34	Total Organic Carbon - Average	0.80				U	
15	CCV	21:21	Total Organic Carbon - Average	24.7	25.0	99	90-110		TOC LCS Std_00057
16	CCB	21:39	Total Organic Carbon - Average	0.80				U	
27	CCV	01:01	Total Organic Carbon - Average	24.9	25.0	100	90-110		TOC LCS Std_00057
28	CCB	01:20	Total Organic Carbon - Average	0.80				U	
39	CCV	04:32	Total Organic Carbon - Average	24.6	25.0	98	90-110		TOC LCS Std_00057
40	CCB	04:51	Total Organic Carbon - Average	0.80				U	

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.: 280-176591-1

SDG No.:

Analyst: KEG Batch Start Date: 05/19/2023

Reporting Units: mg/L Analytical Batch No.: 613263

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
29	CCV	15:42	Alkalinity	182	200	91	90-110		Alk daily lcs 01088
30	CCB	15:49	Alkalinity	3.43				J	
44	CCV	17:30	Alkalinity	182	200	91	90-110		Alk daily lcs 01088
45	CCB	17:36	Alkalinity	3.58				J	

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.: 280-176591-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	LOQ	Dil
Batch ID: 613208 Date: 05/19/2023 17:27 Prep Batch: 613197 Date: 05/19/2023 15:58							
9034	MB 280-613197/2-A	Sulfide	2.0	U	mg/L	4.0	1
Batch ID: 612808 Date: 05/17/2023 13:01							
9056	MB 280-612808/6	Nitrate as N	0.20	U	mg/L	0.50	1
9056	MB 280-612808/6	Nitrite as N	0.10	U	mg/L	0.50	1
Batch ID: 612808 Date: 05/17/2023 23:12							
9056	MB 280-612808/46	Nitrate as N	0.20	U	mg/L	0.50	1
9056	MB 280-612808/46	Nitrite as N	0.10	U M	mg/L	0.50	1
Batch ID: 612809 Date: 05/17/2023 13:01							
9056A	MB 280-612809/6	Sulfate	2.5	U M	mg/L	5.0	1
Batch ID: 612809 Date: 05/17/2023 23:12							
9056A	MB 280-612809/46	Sulfate	2.5	U M	mg/L	5.0	1
Batch ID: 614617 Date: 05/31/2023 18:08							
9060	MB 280-614617/4	Total Organic Carbon - Average	0.80	U	mg/L	1.0	1
Batch ID: 613263 Date: 05/19/2023 16:11							
SM 2320B	MB 280-613263/33	Alkalinity	3.58	J	mg/L	10	1

FORM III-IN

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 612808 Date: 05/18/2023 01:27											
9056	280-176591-7	Nitrate as N	0.20	U	mg/L						
9056	280-176591-7 MS	Nitrate as N	5.04		mg/L	5.00	101	88-111			M J1
9056	280-176591-7	Nitrite as N	0.10	U	mg/L						
9056	280-176591-7 MS	Nitrite as N	4.60		mg/L	5.00	92	87-111			M
Batch ID: 612809 Date: 05/18/2023 01:27											
9056A	280-176591-7	Sulfate	2.5	U	mg/L						M
9056A	280-176591-7 MS	Sulfate	49.1		mg/L	50.0	98	87-112			M

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 612808 Date: 05/18/2023 01:42											
9056	280-176591-7 MSD	Nitrate as N	5.05		mg/L	5.00	101	88-111	0	10	M J1
9056	280-176591-7 MSD	Nitrite as N	4.60		mg/L	5.00	92	87-111	0	10	M
Batch ID: 612809 Date: 05/18/2023 01:42											
9056A	280-176591-7 MSD	Sulfate	49.1		mg/L	50.0	98	87-112	0	10	M

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 612808 Date: 05/18/2023 00:42								
9056	WBGMW-RBmw-018-2023	280-176591-7	Nitrate as N	0.20	mg/L			U
9056	WBGMW-RBmw-018-2023	280-176591-7 DU	Nitrate as N	0.20	mg/L	NC	10	U
9056	WBGMW-RBmw-018-2023	280-176591-7	Nitrite as N	0.10	mg/L			U
9056	WBGMW-RBmw-018-2023	280-176591-7 DU	Nitrite as N	0.10	mg/L	NC	10	U
Batch ID: 612809 Date: 05/18/2023 00:42								
9056A	WBGMW-RBmw-018-2023	280-176591-7	Sulfate	2.5	mg/L			U
9056A	WBGMW-RBmw-018-2023	280-176591-7 DU	Sulfate	2.5	mg/L	NC	10	U M

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 613208	Date: 05/19/2023 17:27	Prep Batch: 613197	Date: 05/19/2023 15:58								
						LCS Source: SFD CAL INT_02403					
9034	LCS 280-613197/1-A	Sulfide	16.0		mg/L	19.0	84	44-110			
Batch ID: 612808	Date: 05/17/2023 12:31										
						LCS Source: IC LCS_01954					
9056	LCS 280-612808/4	Nitrate as N	2.41		mg/L	2.50	96	88-111	1	10	M
9056	LCS 280-612808/4	Nitrite as N	2.31		mg/L	2.50	92	87-111	1	10	M
Batch ID: 612808	Date: 05/17/2023 22:42										
						LCS Source: IC LCS_01954					
9056	LCS 280-612808/44	Nitrate as N	2.38		mg/L	2.50	95	88-111	0	10	M
9056	LCS 280-612808/44	Nitrite as N	2.34		mg/L	2.50	93	87-111	1	10	M
Batch ID: 612809	Date: 05/17/2023 12:31										
						LCS Source: IC LCS_01954					
9056A	LCS 280-612809/4	Sulfate	48.2		mg/L	50.0	96	87-112	1	10	M
Batch ID: 612809	Date: 05/17/2023 22:42										
						LCS Source: IC LCS_01954					
9056A	LCS 280-612809/44	Sulfate	47.4		mg/L	50.0	95	87-112	0	10	M
Batch ID: 614617	Date: 05/31/2023 17:50										
						LCS Source: TOC LCS Std_00057					
9060	LCS 280-614617/3	Total Organic Carbon - Average	24.4		mg/L	25.0	97	88-112			
Batch ID: 613263	Date: 05/19/2023 15:57										
						LCS Source: Alk daily lcs_01088					
SM 2320B	LCS 280-613263/31	Alkalinity	181		mg/L	200	91	89-110	1	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.: 280-176591-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 612808	Date: 05/17/2023 12:46										
						LCSD Source: IC LCS_01954					
9056	LCSD 280-612808/5	Nitrate as N	2.42		mg/L	2.50	97	88-111	1	10	M
9056	LCSD 280-612808/5	Nitrite as N	2.33		mg/L	2.50	93	87-111	1	10	M
Batch ID: 612808	Date: 05/17/2023 22:57										
						LCSD Source: IC LCS_01954					
9056	LCSD 280-612808/45	Nitrate as N	2.39		mg/L	2.50	96	88-111	0	10	M
9056	LCSD 280-612808/45	Nitrite as N	2.31		mg/L	2.50	92	87-111	1	10	M
Batch ID: 612809	Date: 05/17/2023 12:46										
						LCSD Source: IC LCS_01954					
9056A	LCSD 280-612809/5	Sulfate	48.7		mg/L	50.0	97	87-112	1	10	M
Batch ID: 612809	Date: 05/17/2023 22:57										
						LCSD Source: IC LCS_01954					
9056A	LCSD 280-612809/45	Sulfate	47.4		mg/L	50.0	95	87-112	0	10	M
Batch ID: 613263	Date: 05/19/2023 16:04										
						LCSD Source: Alk daily lcs_01088					
SM 2320B	LCSD 280-613263/32	Alkalinity	183		mg/L	200	92	89-110	1	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.: 280-176591-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 612808	Date: 05/17/2023 12:16										
						LCS Source: IC Cal low_00709					
9056	MRL 280-612808/3	Nitrate as N	0.236	J	mg/L	0.250	94	50-150			M
9056	MRL 280-612808/3	Nitrite as N	0.231	J	mg/L	0.250	92	50-150			M
Batch ID: 612809	Date: 05/17/2023 12:16										
						LCS Source: IC CAL cl/so4_00480					
9056A	MRL 280-612809/3	Sulfate	2.55	J	mg/L	2.50	102	50-150			M

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: 280-176591-1

SDG No.: Analysis Batch No.: 608435

Instrument ID: WC_IonChrom10 Calibration ID: 79245

Start Date: 04/12/2023 14:04 End Date: 04/12/2023 15:19

Analytical Method: 9056

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Nitrate as N	0.9995	45900000	-1630000	WLR	Inverse Conc
Nitrite as N	1.0000	46400000	-1280000	WLR	Inverse Conc

16B-IN
INITIAL CALIBRATION

Lab Name: Eurofins Denver | Job No: 280-176591-1

SDG No.: | Analysis Batch No.: 608435

Instrument ID: WC_IonChrom10 | Calibration ID: 79245

Start Date: 04/12/2023 14:04 | End Date: 04/12/2023 15:19

Analytical Method: 9056 | Concentration Units: ug/mL

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Nitrate as N				0.20	0.22	10	0.50	0.47	-6
Nitrite as N				0.20	0.20	1	0.50	0.49	-1

16B-IN
INITIAL CALIBRATION

Lab Name: Eurofins Denver | Job No: 280-176591-1

SDG No.: | Analysis Batch No.: 608435

Instrument ID: WC_IonChrom10 | Calibration ID: 79245

Start Date: 04/12/2023 14:04 | End Date: 04/12/2023 15:19

Analytical Method: 9056 | Concentration Units: ug/mL

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Nitrate as N	1.0	0.95	-5	2.5	2.5	0	5.0	5.1	1
Nitrite as N	1.0	0.99	-1	2.5	2.5	1	5.0	5.0	0

16A-IN
INITIAL CALIBRATION SUMMARY

Lab Name: Eurofins Denver Job No: 280-176591-1

SDG No.: Analysis Batch No.: 608436

Instrument ID: WC_IonChrom10 Calibration ID: 79246

Start Date: 04/12/2023 14:04 End Date: 04/12/2023 15:19

Analytical Method: 9056A

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Sulfate	1.0000	13800000	-1280000	WLR	Inverse Conc

16B-IN
INITIAL CALIBRATION

Lab Name: Eurofins Denver Job No: 280-176591-1

SDG No.: Analysis Batch No.: 608436

Instrument ID: WC_IonChrom10 Calibration ID: 79246

Start Date: 04/12/2023 14:04 End Date: 04/12/2023 15:19

Analytical Method: 9056A Concentration Units: ug/mL

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Sulfate	0.50	0.60	20	1.3	1.1	-9	2.5	2.2	-11

16B-IN
INITIAL CALIBRATION

Lab Name: Eurofins Denver | Job No: 280-176591-1

SDG No.: | Analysis Batch No.: 608436

Instrument ID: WC_IonChrom10 | Calibration ID: 79246

Start Date: 04/12/2023 14:04 | End Date: 04/12/2023 15:19

Analytical Method: 9056A | Concentration Units: ug/mL

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Sulfate	30.0	29.8	-1	60.0	60.1	0	100	100	0

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job Number: 280-176591-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 9034 DL Date: 04/15/2022 13:08

Prep Method: 9030B

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Sulfide		4	1.6

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job Number: 280-176591-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 9034 XMDL Date: 04/15/2022 13:09

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfide		4	1.6

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job Number: 280-176591-1

SDG Number:

Matrix: Water Instrument ID: WC_IonChrom10

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
Nitrite as N		0.5	0.049

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job Number: 280-176591-1

SDG Number:

Matrix: Water Instrument ID: WC_IonChrom10

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
Nitrite as N		0.5	0.049

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job Number: 280-176591-1

SDG Number:

Matrix: Water Instrument ID: WC_IonChrom10

Method: 9056A DL Date: 06/21/2019 00:00

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Sulfate		5	1.03

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job Number: 280-176591-1

SDG Number:

Matrix: Water Instrument ID: WC_IonChrom10

Method: 9056A XMDL Date: 06/21/2019 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfate		5	1.03

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job Number: 280-176591-1

SDG Number:

Matrix: Water Instrument ID: WC_SHI7

Method: 9060 DL Date: 06/21/2019 00:00

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Total Organic Carbon - Average		1	0.345

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job Number: 280-176591-1

SDG Number:

Matrix: Water Instrument ID: WC_SHI7

Method: 9060 XMDL Date: 06/21/2019 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Organic Carbon - Average		1	0.345

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job Number: 280-176591-1

SDG Number:

Matrix: Water Instrument ID: WC_AT4

Method: SM 2320B DL Date: 02/03/2019 00:00

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Alkalinity		10	3.08

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job Number: 280-176591-1

SDG Number:

Matrix: Water Instrument ID: WC_AT4

Method: SM 2320B XMDL Date: 02/03/2019 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Alkalinity		10	3.08

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Prep Method: 9030B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LCS 280-613197/1-A	05/19/2023 15:58	613197		50	50
MB 280-613197/2-A	05/19/2023 15:58	613197		50	50
280-176591-2	05/19/2023 15:58	613197		50	50
280-176591-4	05/19/2023 15:58	613197		50	50
280-176591-6	05/19/2023 15:58	613197		50	50
280-176591-7	05/19/2023 15:58	613197		50	50

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: NOEQUIP Analysis Method: 9034

Start Date: 05/19/2023 17:27 End Date: 05/19/2023 17:27

Lab Sample Id	D/F	Type	Time	Analytes																								
				S2																								
LCS 280-613197/1-A	1	T	17:27	X																								
MB 280-613197/2-A	1	T	17:27	X																								
ZZZZZZ			17:27																									
ZZZZZZ			17:27																									
ZZZZZZ			17:27																									
ZZZZZZ			17:27																									
280-176591-2	1	T	17:27	X																								
280-176591-4	1	T	17:27	X																								
280-176591-6	1	T	17:27	X																								
280-176591-7	1	T	17:27	X																								
ZZZZZZ			17:27																									
ZZZZZZ			17:27																									
ZZZZZZ			17:27																									

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_IonChrom10 Analysis Method: 9056

Start Date: 04/12/2023 14:04 End Date: 04/13/2023 17:51

Lab Sample Id	D/F	Type	Time	Analytes																										
				NO2-N	NO3																									
STD 280-608435/1 IC	1		14:04	X	X																									
STD 280-608435/2 IC	1		14:19	X	X																									
STD 280-608435/3 IC	1		14:34	X	X																									
STD 280-608435/4 IC	1		14:49	X	X																									
STD 280-608435/5 IC	1		15:04	X	X																									
STD 280-608435/6 IC	1		15:19	X	X																									
ICV 280-608435/7	1		15:34	X	X																									
ICB 280-608435/8	1		15:49	X	X																									
RTC 280-608435/9			16:04																											
ZZZZZZ			16:19																											
ZZZZZZ			16:34																											
ZZZZZZ			16:49																											
ZZZZZZ			17:04																											
ZZZZZZ			17:20																											
ZZZZZZ			17:36																											
ZZZZZZ			13:39																											
ZZZZZZ			13:54																											
ZZZZZZ			14:09																											
ZZZZZZ			14:24																											
ZZZZZZ			14:39																											
ZZZZZZ			14:54																											
ZZZZZZ			15:09																											
ZZZZZZ			15:24																											
CCV 280-608435/24			15:54																											
CCB 280-608435/25			17:51																											

Prep Types:
=

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_IonChrom10 Analysis Method: 9056

Start Date: 05/17/2023 11:46 End Date: 05/18/2023 04:58

Lab Sample Id	D/F	Type	Time	Analytes																										
				NO2-N	NO3																									
CCV 280-612808/1	1		11:46	X	X																									
CCB 280-612808/2	1		12:01	X	X																									
MRL 280-612808/3	1	T	12:16	X	X																									
LCS 280-612808/4	1	T	12:31	X	X																									
LCSD 280-612808/5	1	T	12:46	X	X																									
MB 280-612808/6	1	T	13:01	X	X																									
ZZZZZZ			13:26																											
ZZZZZZ			13:41																											
ZZZZZZ			13:56																											
280-176591-6	1	T	14:11	X	X																									
ZZZZZZ			14:26																											
ZZZZZZ			14:41																											
ZZZZZZ			14:56																											
ZZZZZZ			15:11																											
ZZZZZZ			15:26																											
ZZZZZZ			15:41																											
CCV 280-612808/17	1		15:56	X	X																									
CCB 280-612808/18	1		16:11	X	X																									
ZZZZZZ			16:26																											
ZZZZZZ			16:42																											
ZZZZZZ			16:57																											
280-176591-4	1	T	17:12	X	X																									
ZZZZZZ			17:27																											
ZZZZZZ			17:42																											
ZZZZZZ			17:57																											
ZZZZZZ			18:12																											
ZZZZZZ			18:27																											
ZZZZZZ			18:42																											
CCV 280-612808/29	1		18:57	X	X																									
CCB 280-612808/30	1		19:12	X	X																									
ZZZZZZ			19:27																											
ZZZZZZ			19:42																											
ZZZZZZ			19:57																											
ZZZZZZ			20:12																											
ZZZZZZ			20:27																											
ZZZZZZ			20:42																											
ZZZZZZ			20:57																											
ZZZZZZ			21:12																											
ZZZZZZ			21:27																											

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_IonChrom10 Analysis Method: 9056

Start Date: 05/17/2023 11:46 End Date: 05/18/2023 04:58

Lab Sample Id	D/F	Type	Time	Analytes																										
				NO2-N	NO3																									
ZZZZZZ			21:42																											
CCV 280-612808/41	1		21:58	X	X																									
CCB 280-612808/42	1		22:13	X	X																									
ZZZZZZ			22:27																											
LCS 280-612808/44	1	T	22:42	X	X																									
LCSD 280-612808/45	1	T	22:57	X	X																									
MB 280-612808/46	1	T	23:12	X	X																									
ZZZZZZ			23:27																											
280-176591-2	1	T	23:42	X	X																									
ZZZZZZ			23:57																											
ZZZZZZ			00:12																											
280-176591-7	1	T	00:27	X	X																									
280-176591-7 DU	1	T	00:42	X	X																									
CCV 280-612808/53	1		00:57	X	X																									
CCB 280-612808/54	1		01:12	X	X																									
280-176591-7 MS	1	T	01:27	X	X																									
280-176591-7 MSD	1	T	01:42	X	X																									
ZZZZZZ			01:57																											
ZZZZZZ			02:12																											
ZZZZZZ			02:27																											
ZZZZZZ			02:42																											
ZZZZZZ			02:57																											
ZZZZZZ			03:12																											
ZZZZZZ			03:27																											
ZZZZZZ			03:42																											
CCV 280-612808/65	1		03:57	X	X																									
CCB 280-612808/66	1		04:12	X	X																									
ZZZZZZ			04:28																											
CCV 280-612808/68			04:43																											
CCB 280-612808/69			04:58																											

Prep Types:
T = Total/NA

FORM XIII-IN

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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_IonChrom10 Analysis Method: 9056A

Start Date: 04/12/2023 14:04 End Date: 04/13/2023 17:51

Lab Sample Id	D/F	Type	Time	Analytes																								
				SO4																								
STD 280-608436/1 IC	1		14:04	X																								
STD 280-608436/2 IC	1		14:19	X																								
STD 280-608436/3 IC	1		14:34	X																								
STD 280-608436/4 IC	1		14:49	X																								
STD 280-608436/5 IC	1		15:04	X																								
STD 280-608436/6 IC	1		15:19	X																								
ICV 280-608436/7	1		15:34	X																								
ICB 280-608436/8	1		15:49	X																								
RTC 280-608436/9			16:04																									
ZZZZZZ			16:19																									
ZZZZZZ			16:34																									
ZZZZZZ			16:49																									
ZZZZZZ			17:04																									
ZZZZZZ			17:20																									
ZZZZZZ			17:36																									
ZZZZZZ			13:39																									
ZZZZZZ			13:54																									
ZZZZZZ			14:09																									
ZZZZZZ			14:24																									
ZZZZZZ			14:39																									
ZZZZZZ			14:54																									
ZZZZZZ			15:09																									
ZZZZZZ			15:24																									
CCV 280-608436/24			15:54																									
CCB 280-608436/25			17:51																									

Prep Types:
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FORM XIII-IN

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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_IonChrom10 Analysis Method: 9056A

Start Date: 05/17/2023 11:46 End Date: 05/18/2023 04:58

Lab Sample Id	D/F	Type	Time	Analytes																								
				SO4																								
CCV 280-612809/1	1		11:46	X																								
CCB 280-612809/2	1		12:01	X																								
MRL 280-612809/3	1	T	12:16	X																								
LCS 280-612809/4	1	T	12:31	X																								
LCSD 280-612809/5	1	T	12:46	X																								
MB 280-612809/6	1	T	13:01	X																								
ZZZZZZ			13:26																									
ZZZZZZ			13:41																									
ZZZZZZ			13:56																									
280-176591-6	1	T	14:11	X																								
ZZZZZZ			14:26																									
ZZZZZZ			14:41																									
ZZZZZZ			14:56																									
ZZZZZZ			15:11																									
ZZZZZZ			15:26																									
ZZZZZZ			15:41																									
CCV 280-612809/17	1		15:56	X																								
CCB 280-612809/18	1		16:11	X																								
ZZZZZZ			16:26																									
ZZZZZZ			16:42																									
ZZZZZZ			16:57																									
280-176591-4	1	T	17:12	X																								
ZZZZZZ			17:27																									
ZZZZZZ			17:42																									
ZZZZZZ			17:57																									
ZZZZZZ			18:12																									
ZZZZZZ			18:27																									
ZZZZZZ			18:42																									
CCV 280-612809/29	1		18:57	X																								
CCB 280-612809/30	1		19:12	X																								
ZZZZZZ			19:27																									
ZZZZZZ			19:42																									
ZZZZZZ			19:57																									
ZZZZZZ			20:12																									
ZZZZZZ			20:27																									
ZZZZZZ			20:42																									
ZZZZZZ			20:57																									
ZZZZZZ			21:12																									
ZZZZZZ			21:27																									
ZZZZZZ			21:42																									
CCV 280-612809/41	1		21:58	X																								

FORM XIII-IN

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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_IonChrom10 Analysis Method: 9056A

Start Date: 05/17/2023 11:46 End Date: 05/18/2023 04:58

Lab Sample Id	D/F	Type	Time	Analytes																								
				SO4																								
CCB 280-612809/42	1		22:13	X																								
LCS 280-612809/44	1	T	22:42	X																								
LCSD 280-612809/45	1	T	22:57	X																								
MB 280-612809/46	1	T	23:12	X																								
ZZZZZZ			23:27																									
280-176591-2	1	T	23:42	X																								
ZZZZZZ			23:57																									
ZZZZZZ			00:12																									
280-176591-7	1	T	00:27	X																								
280-176591-7 DU	1	T	00:42	X																								
CCV 280-612809/53	1		00:57	X																								
CCB 280-612809/54	1		01:12	X																								
280-176591-7 MS	1	T	01:27	X																								
280-176591-7 MSD	1	T	01:42	X																								
ZZZZZZ			01:57																									
ZZZZZZ			02:12																									
ZZZZZZ			03:12																									
ZZZZZZ			03:27																									
ZZZZZZ			03:42																									
CCV 280-612809/65	1		03:57	X																								
CCB 280-612809/66	1		04:12	X																								
ZZZZZZ			04:28																									
CCV 280-612809/68			04:43																									
CCB 280-612809/69			04:58																									

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_SHI7 Analysis Method: 9060

Start Date: 05/31/2023 17:16 End Date: 06/01/2023 20:23

Lab Sample Id	D/F	Type	Time	Analytes																									
				TOCQ																									
ICV 280-614617/1	1		17:16	X																									
ICB 280-614617/2	1		17:34	X																									
LCS 280-614617/3	1	T	17:50	X																									
MB 280-614617/4	1	T	18:08	X																									
ZZZZZZ			18:24																										
ZZZZZZ			18:39																										
ZZZZZZ			18:58																										
ZZZZZZ			19:18																										
ZZZZZZ			19:37																										
ZZZZZZ			19:54																										
ZZZZZZ			20:11																										
ZZZZZZ			20:28																										
ZZZZZZ			20:45																										
ZZZZZZ			21:03																										
CCV 280-614617/15	1		21:21	X																									
CCB 280-614617/16	1		21:39	X																									
ZZZZZZ			21:55																										
ZZZZZZ			22:14																										
ZZZZZZ			22:33																										
ZZZZZZ			22:52																										
ZZZZZZ			23:11																										
ZZZZZZ			23:31																										
ZZZZZZ			23:51																										
280-176591-2	1	T	00:09	X																									
280-176591-4	1	T	00:27	X																									
280-176591-6	1	T	00:43	X																									
CCV 280-614617/27	1		01:01	X																									
CCB 280-614617/28	1		01:20	X																									
280-176591-7	1	T	01:34	X																									
ZZZZZZ			01:51																										
ZZZZZZ			02:10																										
ZZZZZZ			02:29																										
ZZZZZZ			02:48																										
ZZZZZZ			03:07																										
ZZZZZZ			03:27																										
ZZZZZZ			03:45																										
ZZZZZZ			04:00																										
ZZZZZZ			04:14																										
CCV 280-614617/39	1		04:32	X																									
CCB 280-614617/40	1		04:51	X																									

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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_SHI7 Analysis Method: 9060

Start Date: 05/31/2023 17:16 End Date: 06/01/2023 20:23

Lab Sample Id	D/F	Type	Time	Analytes																									
				TOCQ																									
ZZZZZZ			05:06																										
ZZZZZZ			05:26																										
ZZZZZZ			05:44																										
ZZZZZZ			06:01																										
ZZZZZZ			06:19																										
ZZZZZZ			06:36																										
ZZZZZZ			06:53																										
ZZZZZZ			07:10																										
ZZZZZZ			07:26																										
ZZZZZZ			07:44																										
CCV 280-614617/51			08:04																										
CCB 280-614617/52			08:22																										
ZZZZZZ			08:39																										
ZZZZZZ			08:59																										
ZZZZZZ			09:16																										
ZZZZZZ			09:36																										
ZZZZZZ			09:56																										
ZZZZZZ			10:16																										
ZZZZZZ			10:33																										
ZZZZZZ			10:50																										
ZZZZZZ			11:08																										
ZZZZZZ			11:25																										
CCV 280-614617/63			11:44																										
CCB 280-614617/64			12:02																										
ZZZZZZ			12:18																										
ZZZZZZ			12:37																										
ZZZZZZ			12:55																										
ZZZZZZ			13:13																										
ZZZZZZ			13:31																										
ZZZZZZ			13:47																										
ZZZZZZ			14:05																										
ZZZZZZ			14:25																										
ZZZZZZ			14:43																										
ZZZZZZ			14:59																										
CCV 280-614617/75			15:17																										
CCB 280-614617/76			15:35																										
ZZZZZZ			15:50																										
ZZZZZZ			16:05																										
ZZZZZZ			16:21																										
ZZZZZZ			16:39																										

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_SHI7 Analysis Method: 9060

Start Date: 05/31/2023 17:16 End Date: 06/01/2023 20:23

Lab Sample Id	D/F	Type	Time	Analytes																									
				TOCQ																									
ZZZZZZ			16:56																										
ZZZZZZ			17:13																										
ZZZZZZ			17:29																										
ZZZZZZ			17:44																										
ZZZZZZ			18:00																										
ZZZZZZ			18:20																										
CCV 280-614617/87			18:39																										
CCB 280-614617/88			18:58																										
ZZZZZZ			19:13																										
ZZZZZZ			19:30																										
ZZZZZZ			19:46																										
CCV 280-614617/92			20:04																										
CCB 280-614617/93			20:23																										

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_AT4 Analysis Method: SM 2320B

Start Date: 05/19/2023 12:32 End Date: 05/20/2023 07:16

Lab Sample Id	D/F	Type	Time	Analytes																								
				Alk																								
RINSE 280-613263/1			12:32																									
ZZZZZZ			12:40																									
ZZZZZZ			12:43																									
ZZZZZZ			12:51																									
ZZZZZZ			12:58																									
ZZZZZZ			13:04																									
ZZZZZZ			13:12																									
ZZZZZZ			13:21																									
ZZZZZZ			13:26																									
ZZZZZZ			13:33																									
ZZZZZZ			13:39																									
ZZZZZZ			13:47																									
ZZZZZZ			13:53																									
ZZZZZZ			14:00																									
ZZZZZZ			14:04																									
ZZZZZZ			14:11																									
CCV 280-613263/17			14:19																									
CCB 280-613263/18			14:25																									
ZZZZZZ			14:31																									
ZZZZZZ			14:37																									
ZZZZZZ			14:42																									
ZZZZZZ			14:47																									
ZZZZZZ			14:52																									
ZZZZZZ			14:59																									
ZZZZZZ			15:06																									
ZZZZZZ			15:15																									
ZZZZZZ			15:26																									
ZZZZZZ			15:35																									
CCV 280-613263/29	1		15:42	X																								
CCB 280-613263/30	1		15:49	X																								
LCS 280-613263/31	1	T	15:57	X																								
LCSD 280-613263/32	1	T	16:04	X																								
MB 280-613263/33	1	T	16:11	X																								
ZZZZZZ			16:22																									
ZZZZZZ			16:34																									
ZZZZZZ			16:40																									
ZZZZZZ			16:48																									
280-176591-2	1	T	16:55	X																								
280-176591-4	1	T	17:01	X																								
280-176591-6	1	T	17:06	X																								
280-176591-7	1	T	17:11	X																								

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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_AT4 Analysis Method: SM 2320B

Start Date: 05/19/2023 12:32 End Date: 05/20/2023 07:16

Lab Sample Id	D/F	Type	Time	Analytes																								
				Alk																								
ZZZZZZ			17:16																									
ZZZZZZ			17:22																									
CCV 280-613263/44	1		17:30	X																								
CCB 280-613263/45	1		17:36	X																								
ZZZZZZ			17:43																									
ZZZZZZ			17:50																									
ZZZZZZ			17:55																									
ZZZZZZ			18:01																									
ZZZZZZ			18:14																									
ZZZZZZ			18:21																									
ZZZZZZ			18:28																									
ZZZZZZ			18:38																									
ZZZZZZ			18:50																									
ZZZZZZ			19:01																									
CCV 280-613263/56			19:09																									
CCB 280-613263/57			19:14																									
ZZZZZZ			19:22																									
ZZZZZZ			19:28																									
ZZZZZZ			19:40																									
ZZZZZZ			19:51																									
ZZZZZZ			20:05																									
ZZZZZZ			20:21																									
ZZZZZZ			20:34																									
ZZZZZZ			20:49																									
ZZZZZZ			20:55																									
ZZZZZZ			21:00																									
ZZZZZZ			21:07																									
ZZZZZZ			21:15																									
CCV 280-613263/70			21:23																									
CCB 280-613263/71			21:29																									
ZZZZZZ			21:36																									
ZZZZZZ			21:45																									
ZZZZZZ			21:53																									
ZZZZZZ			22:02																									
ZZZZZZ			22:13																									
ZZZZZZ			22:18																									
ZZZZZZ			22:25																									
ZZZZZZ			22:32																									
ZZZZZZ			22:52																									
ZZZZZZ			23:12																									
CCV 280-613263/82			23:21																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_AT4 Analysis Method: SM 2320B

Start Date: 05/19/2023 12:32 End Date: 05/20/2023 07:16

Lab Sample Id	D/F	Type	Time	Analytes																									
				Alk																									
CCB 280-613263/83			23:27																										
ZZZZZZ			23:35																										
ZZZZZZ			23:41																										
ZZZZZZ			23:47																										
ZZZZZZ			23:53																										
ZZZZZZ			23:59																										
ZZZZZZ			00:05																										
ZZZZZZ			00:11																										
ZZZZZZ			00:17																										
ZZZZZZ			00:23																										
ZZZZZZ			00:29																										
ZZZZZZ			00:37																										
ZZZZZZ			00:43																										
CCV 280-613263/96			00:51																										
CCB 280-613263/97			00:57																										
ZZZZZZ			01:12																										
ZZZZZZ			01:20																										
ZZZZZZ			01:41																										
ZZZZZZ			02:03																										
ZZZZZZ			02:10																										
ZZZZZZ			02:16																										
ZZZZZZ			02:24																										
ZZZZZZ			02:34																										
ZZZZZZ			02:42																										
ZZZZZZ			02:51																										
CCV 280-613263/108			02:59																										
CCB 280-613263/109			03:05																										
ZZZZZZ			03:12																										
ZZZZZZ			03:18																										
ZZZZZZ			03:26																										
ZZZZZZ			03:33																										
ZZZZZZ			03:39																										
ZZZZZZ			03:45																										
ZZZZZZ			03:51																										
ZZZZZZ			03:57																										
ZZZZZZ			04:03																										
ZZZZZZ			04:09																										
ZZZZZZ			04:15																										
ZZZZZZ			04:22																										
CCV 280-613263/122			04:30																										
CCB 280-613263/123			04:36																										

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Instrument ID: WC_AT4 Analysis Method: SM 2320B

Start Date: 05/19/2023 12:32 End Date: 05/20/2023 07:16

Lab Sample Id	D/F	Type	Time	Analytes																								
				Alk																								
ZZZZZZ			04:44																									
ZZZZZZ			04:51																									
ZZZZZZ			04:58																									
ZZZZZZ			05:04																									
ZZZZZZ			05:15																									
ZZZZZZ			05:35																									
ZZZZZZ			05:56																									
ZZZZZZ			06:15																									
ZZZZZZ			06:35																									
ZZZZZZ			06:55																									
RINSE 280-613263/134			07:02																									
CCV 280-613263/135			07:10																									
CCB 280-613263/136			07:16																									

Prep Types:
T = Total/NA

FORM XIII-IN

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Batch Number: 613197 Batch Start Date: 05/19/23 15:58 Batch Analyst: Ince, Connor A

Batch Method: 9030B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	DistillUnitPort	Initial pH	Final pH	AcidVolAdded
LCS 280-613197/1		9030B, 9034		50 mL	50 mL	1	7 SU	<2 SU	5 mL
MB 280-613197/2		9030B, 9034		50 mL	50 mL	2	7 SU	<2 SU	5 mL
280-176591-E-2	WBGmw-006-230401-GW	9030B, 9034	T	50 mL	50 mL	7	12+ SU	<2 SU	5 mL
280-176591-E-4	WBGmw-009-230401-GW	9030B, 9034	T	50 mL	50 mL	8	12+ SU	<2 SU	5 mL
280-176591-E-6	WBGmw-018-230401-GW	9030B, 9034	T	50 mL	50 mL	9	12+ SU	<2 SU	5 mL
280-176591-E-7	WBGMW-RBmw-018-2023	9030B, 9034	T	50 mL	50 mL	10	12+ SU	<2 SU	5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	SFD CAL INT 02403					
LCS 280-613197/1		9030B, 9034		1 mL					
MB 280-613197/2		9030B, 9034							
280-176591-E-2	WBGmw-006-230401-GW	9030B, 9034	T						
280-176591-E-4	WBGmw-009-230401-GW	9030B, 9034	T						
280-176591-E-6	WBGmw-018-230401-GW	9030B, 9034	T						
280-176591-E-7	WBGMW-RBmw-018-2023	9030B, 9034	T						

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.: 280-176591-1

SDG No.:

Batch Number: 613197 Batch Start Date: 05/19/23 15:58 Batch Analyst: Ince, Connor A

Batch Method: 9030B Batch End Date:

Batch Notes	
Formaldehyde ID	Form_00125
Zinc Acetate Buffer ID	znac_00127
Pipette/Syringe/Dispenser ID	WC-5000BOD1
Sulfuric Acid Reagent ID Number	SulfuricAcid_00288
Balance ID	M19170
pH Indicator ID	HC157843
Oven, Bath or Block Temperature 1	80 Degrees C
Distillation Start Time	05/19/2023 12:30
Uncorrected Temperature 2	80 Degrees C
Oven, Bath or Block Temperature 2	80 Degrees C
Distillation End Time	05/19/2023 14:00
Batch Comment	CAI

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 BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Batch Number: 613208 Batch Start Date: 05/19/23 17:27 Batch Analyst: Ince, Connor A

Batch Method: 9034 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	BuretStart1	BuretStop1	IodineAmount	TitrantVolume1	FinalAmount	
LCS 280-613197/1-A		9034		0.0 mL	3.0 mL	1.25 mL	3 mL	50 mL	
MB 280-613197/2-A		9034		3.0 mL	4.0 mL	0.25 mL	1 mL	50 mL	
280-176591-E-2-A	WBGmw-006-230401-GW	9034	T	12.2 mL	13.2 mL	0.25 mL	1 mL	50 mL	
280-176591-E-4-A	WBGmw-009-230401-GW	9034	T	13.2 mL	14.1 mL	0.25 mL	0.9 mL	50 mL	
280-176591-E-6-A	WBGmw-018-230401-GW	9034	T	14.1 mL	15.1 mL	0.25 mL	1 mL	50 mL	
280-176591-E-7-A	WBGMW-RBmw-018-2023	9034	T	15.1 mL	16.1 mL	0.25 mL	1 mL	50 mL	

Batch Notes	
Normality of First Titrant	0.025 N
Normality of Iodine Solution	0.1 N
Zinc Acetate Buffer ID	znac_00127
Iodine ID	Iod_00279
Hydrochloric Acid ID	HCL Sol_00207
Sodium Thiosulfate ID	Na Thio_00181
Starch Reagent ID	Starch Ind_00071
Pipette/Syringe/Dispenser ID	WC-5000BOD1
Batch Comment	CAI

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 BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Batch Number: 608435 Batch Start Date: 04/12/23 14:04 Batch Analyst: Sherman, Erik J

Batch Method: 9056 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Cl ICV Std 00006	IC CAL cl/so4 00475	IC Cal low 00703	IC ICV 5 00403
STD 280-608435/1 IC		9056		10 mL	10 mL		0.04 mL		
STD 280-608435/2 IC		9056		10 mL	10 mL		0.1 mL	0.08 mL	
STD 280-608435/3 IC		9056		10 mL	10 mL		0.2 mL	0.2 mL	
STD 280-608435/4 IC		9056		10 mL	10 mL		2.4 mL	0.4 mL	
STD 280-608435/5 IC		9056		10 mL	10 mL		4.8 mL	1 mL	
STD 280-608435/6 IC		9056		10 mL	10 mL		8 mL	2 mL	
ICV 280-608435/7		9056		10 mL	10 mL	0.8 mL			0.8 mL
ICB 280-608435/8		9056		10 mL	10 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	IC SO4 ICV 00024					
STD 280-608435/1 IC		9056							
STD 280-608435/2 IC		9056							
STD 280-608435/3 IC		9056							
STD 280-608435/4 IC		9056							
STD 280-608435/5 IC		9056							
STD 280-608435/6 IC		9056							
ICV 280-608435/7		9056		0.8 mL					
ICB 280-608435/8		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.: 280-176591-1

SDG No.:

Batch Number: 608435 Batch Start Date: 04/12/23 14:04 Batch Analyst: Sherman, Erik J

Batch Method: 9056 Batch End Date:

Batch Notes	
Filter ID	SF020E
Pipette/Syringe/Dispenser ID	ARM5000, 1000HEX, 200CJ, IC100, BMF100, AB8A100
Sufficient Volume for Batch QC	Y
Eluent 1 ID	IC10 ELUENT_00006
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.: 280-176591-1

SDG No.:

Batch Number: 612808 Batch Start Date: 05/17/23 11:46 Batch Analyst: Collins, Michael E

Batch Method: 9056 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC CAL cl/so4 00480	IC Cal low 00709	IC LCS 01954	ICMS/MSD WEEK 00819
CCV 280-612808/1		9056		10 mL	10 mL			10 mL	
CCB 280-612808/2		9056		10 mL	10 mL				
MRL 280-612808/3		9056		10 mL	10 mL	0.2 mL	0.1 mL		
LCS 280-612808/4		9056		10 mL	10 mL			10 mL	
LCSD 280-612808/5		9056		10 mL	10 mL			10 mL	
MB 280-612808/6		9056		10 mL	10 mL				
280-176591-C-6	WBGmw-018-230401-GW	9056	T	10 mL	10 mL				
CCV 280-612808/17		9056		10 mL	10 mL			10 mL	
CCB 280-612808/18		9056		10 mL	10 mL				
280-176591-C-4	WBGmw-009-230401-GW	9056	T	10 mL	10 mL				
CCV 280-612808/29		9056		10 mL	10 mL			10 mL	
CCB 280-612808/30		9056		10 mL	10 mL				
CCV 280-612808/41		9056		10 mL	10 mL			10 mL	
CCB 280-612808/42		9056		10 mL	10 mL				
LCS 280-612808/44		9056		10 mL	10 mL			10 mL	
LCSD 280-612808/45		9056		10 mL	10 mL			10 mL	
MB 280-612808/46		9056		10 mL	10 mL				
280-176591-C-2	WBGmw-006-230401-GW	9056	T	10 mL	10 mL				
280-176591-C-7	WBGMW-RBmw-018-2023	9056	T	10 mL	10 mL				
280-176591-C-7 DU	WBGMW-RBmw-018-2023	9056	T	10 mL	10 mL				
CCV 280-612808/53		9056		10 mL	10 mL			10 mL	

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.: 280-176591-1

SDG No.:

Batch Number: 612808 Batch Start Date: 05/17/23 11:46 Batch Analyst: Collins, Michael E

Batch Method: 9056 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC CAL cl/so4 00480	IC Cal low 00709	IC LCS 01954	ICMS/MSD WEEK 00819
CCB 280-612808/54		9056		10 mL	10 mL				
280-176591-C-7 MS	WBGMW-RBmw-018-2023	9056	T	10 mL	10 mL				0.1 mL
280-176591-C-7 MSD	WBGMW-RBmw-018-2023	9056	T	10 mL	10 mL				0.1 mL
CCV 280-612808/65		9056		10 mL	10 mL			10 mL	
CCB 280-612808/66		9056		10 mL	10 mL				

Batch Notes	
Filter ID	SF020E
Pipette/Syringe/Dispenser ID	ARM5000, 1000HEX, 200CJ, 100IC
Sufficient Volume for Batch QC	yes
Eluent 1 ID	IC10 Eluent_00006
Batch Comment	MEC

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 BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Batch Number: 608436 Batch Start Date: 04/12/23 14:04 Batch Analyst: Sherman, Erik J

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Cl ICV Std 00006	IC CAL cl/so4 00475	IC Cal low 00703	IC ICV 5 00403
STD 280-608436/1 IC		9056A		10 mL	10 mL		0.04 mL		
STD 280-608436/2 IC		9056A		10 mL	10 mL		0.1 mL	0.08 mL	
STD 280-608436/3 IC		9056A		10 mL	10 mL		0.2 mL	0.2 mL	
STD 280-608436/4 IC		9056A		10 mL	10 mL		2.4 mL	0.4 mL	
STD 280-608436/5 IC		9056A		10 mL	10 mL		4.8 mL	1 mL	
STD 280-608436/6 IC		9056A		10 mL	10 mL		8 mL	2 mL	
ICV 280-608436/7		9056A		10 mL	10 mL	0.8 mL			0.8 mL
ICB 280-608436/8		9056A		10 mL	10 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	IC SO4 ICV 00024					
STD 280-608436/1 IC		9056A							
STD 280-608436/2 IC		9056A							
STD 280-608436/3 IC		9056A							
STD 280-608436/4 IC		9056A							
STD 280-608436/5 IC		9056A							
STD 280-608436/6 IC		9056A							
ICV 280-608436/7		9056A		0.8 mL					
ICB 280-608436/8		9056A							

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.: 280-176591-1

SDG No.:

Batch Number: 608436 Batch Start Date: 04/12/23 14:04 Batch Analyst: Sherman, Erik J

Batch Method: 9056A Batch End Date:

Batch Notes	
Filter ID	SF020E
Pipette/Syringe/Dispenser ID	ARM5000, 1000HEX, 200CJ, IC100, BMF100, AB8A100
Sufficient Volume for Batch QC	Y
Eluent 1 ID	IC10 ELUENT_00006
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.: 280-176591-1

SDG No.:

Batch Number: 612809 Batch Start Date: 05/17/23 11:46 Batch Analyst: Collins, Michael E

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC CAL cl/so4 00480	IC Cal low 00709	IC LCS 01954	ICMS/MSD WEEK 00819
CCV 280-612809/1		9056A		10 mL	10 mL			10 mL	
CCB 280-612809/2		9056A		10 mL	10 mL				
MRL 280-612809/3		9056A		10 mL	10 mL	0.2 mL	0.1 mL		
LCS 280-612809/4		9056A		10 mL	10 mL			10 mL	
LCSD 280-612809/5		9056A		10 mL	10 mL			10 mL	
MB 280-612809/6		9056A		10 mL	10 mL				
280-176591-C-6	WBGmw-018-230401-GW	9056A	T	10 mL	10 mL				
CCV 280-612809/17		9056A		10 mL	10 mL			10 mL	
CCB 280-612809/18		9056A		10 mL	10 mL				
280-176591-C-4	WBGmw-009-230401-GW	9056A	T	10 mL	10 mL				
CCV 280-612809/29		9056A		10 mL	10 mL			10 mL	
CCB 280-612809/30		9056A		10 mL	10 mL				
CCV 280-612809/41		9056A		10 mL	10 mL			10 mL	
CCB 280-612809/42		9056A		10 mL	10 mL				
LCS 280-612809/44		9056A		10 mL	10 mL			10 mL	
LCSD 280-612809/45		9056A		10 mL	10 mL			10 mL	
MB 280-612809/46		9056A		10 mL	10 mL				
280-176591-C-2	WBGmw-006-230401-GW	9056A	T	10 mL	10 mL				
280-176591-C-7	WBGMW-RBmw-018-2023	9056A	T	10 mL	10 mL				
280-176591-C-7 DU	WBGMW-RBmw-018-2023	9056A	T	10 mL	10 mL				
CCV 280-612809/53		9056A		10 mL	10 mL			10 mL	

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.: 280-176591-1

SDG No.:

Batch Number: 612809 Batch Start Date: 05/17/23 11:46 Batch Analyst: Collins, Michael E

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC CAL cl/so4 00480	IC Cal low 00709	IC LCS 01954	ICMS/MSD WEEK 00819
CCB 280-612809/54		9056A		10 mL	10 mL				
280-176591-C-7 MS	WBGMW-RBmw-018-2023	9056A	T	10 mL	10 mL				0.1 mL
280-176591-C-7 MSD	WBGMW-RBmw-018-2023	9056A	T	10 mL	10 mL				0.1 mL
CCV 280-612809/65		9056A		10 mL	10 mL			10 mL	
CCB 280-612809/66		9056A		10 mL	10 mL				

Batch Notes	
Filter ID	SF020E
Pipette/Syringe/Dispenser ID	ARM5000, 1000HEX, 200CJ, 100IC
Sufficient Volume for Batch QC	yes
Eluent 1 ID	IC10 Eluent_00006
Batch Comment	MEC

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 BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Batch Number: 614617 Batch Start Date: 05/31/23 17:16 Batch Analyst: Wondimu, Akewak B

Batch Method: 9060 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	Final pH	TOC ICV Std 00051	TOC LCS Std 00057
ICV 280-614617/1		9060		50 mL	50 mL	<2 SU	<2 SU	1 mL	
ICB 280-614617/2		9060		20 mL	20 mL	<2 SU	<2 SU		
LCS 280-614617/3		9060		200 mL	200 mL	<2 SU	<2 SU		5 mL
MB 280-614617/4		9060		20 mL	20 mL	<2 SU	<2 SU		
CCV 280-614617/15		9060		200 mL	200 mL	<2 SU	<2 SU		5 mL
CCB 280-614617/16		9060		20 mL	20 mL	<2 SU	<2 SU		
280-176591-D-2	WBGmw-006-230401-GW	9060	T	20 mL	20 mL	<2 SU	<2 SU		
280-176591-D-4	WBGmw-009-230401-GW	9060	T	20 mL	20 mL	<2 SU	<2 SU		
280-176591-D-6	WBGmw-018-230401-GW	9060	T	20 mL	20 mL	<2 SU	<2 SU		
CCV 280-614617/27		9060		200 mL	200 mL	<2 SU	<2 SU		5 mL
CCB 280-614617/28		9060		20 mL	20 mL	<2 SU	<2 SU		
280-176591-D-7	WBGMW-RBmw-018-2023	9060	T	20 mL	20 mL	<2 SU	<2 SU		
CCV 280-614617/39		9060		200 mL	200 mL	<2 SU	<2 SU		5 mL
CCB 280-614617/40		9060		20 mL	20 mL	<2 SU	<2 SU		

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
ICV 280-614617/1		9060		The final volume of these samples was fixed at 50 by the TOCControlV preprocessor.					
ICB 280-614617/2		9060		The final volume of these samples was fixed at 50 by the TOCControlV preprocessor.					

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.: 280-176591-1

SDG No.:

Batch Number: 614617 Batch Start Date: 05/31/23 17:16 Batch Analyst: Wondimu, Akewak B

Batch Method: 9060 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
LCS 280-614617/3		9060		The final volume of these samples was fixed at 50 by the TOCControlV preprocessor.					
MB 280-614617/4		9060		The final volume of these samples was fixed at 50 by the TOCControlV preprocessor.					
CCV 280-614617/15		9060		The final volume of these samples was fixed at 50 by the TOCControlV preprocessor.					
CCB 280-614617/16		9060		The final volume of these samples was fixed at 50 by the TOCControlV preprocessor.					
280-176591-D-2	WBGmw-006-230401-GW	9060	T	The final volume of these samples was fixed at 50 by the TOCControlV preprocessor.					
280-176591-D-4	WBGmw-009-230401-GW	9060	T	The final volume of these samples was fixed at 50 by the TOCControlV preprocessor.					
280-176591-D-6	WBGmw-018-230401-GW	9060	T	The final volume of these samples was fixed at 50 by the TOCControlV preprocessor.					

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.: 280-176591-1

SDG No.:

Batch Number: 614617 Batch Start Date: 05/31/23 17:16 Batch Analyst: Wondimu, Akewak B

Batch Method: 9060 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
CCV 280-614617/27		9060		The final volume of these samples was fixed at 50 by the TOCControlV preprocessor.					
CCB 280-614617/28		9060		The final volume of these samples was fixed at 50 by the TOCControlV preprocessor.					
280-176591-D-7	WBGMW-RBmw-018-2023	9060	T	The final volume of these samples was fixed at 50 by the TOCControlV preprocessor.					
CCV 280-614617/39		9060		The final volume of these samples was fixed at 50 by the TOCControlV preprocessor.					
CCB 280-614617/40		9060		The final volume of these samples was fixed at 50 by the TOCControlV preprocessor.					

Batch Notes	
Acid ID	0.2% H2SO4_00463, H2SO4_00214
Combustion Catylyst ID	S638-92069-02
Pipette/Syringe/Dispenser ID	BWH 5000,1000 MS
pH Paper ID	HC205981
Vial Lot Number	705212201761
Batch Comment	Run and reviewed by ABW

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.: 280-176591-1

SDG No.:

Batch Number: 614617 Batch Start Date: 05/31/23 17:16 Batch Analyst: Wondimu, Akewak B

Batch Method: 9060 Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-176591-1

SDG No.:

Batch Number: 613263 Batch Start Date: 05/19/23 12:32 Batch Analyst: Guillen, Kristela E

Batch Method: SM 2320B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	Alk daily lcs 01088				
CCV 280-613263/29		SM 2320B		InitialAmount is blank	10 mL				
CCB 280-613263/30		SM 2320B		InitialAmount is blank					
LCS 280-613263/31		SM 2320B		InitialAmount is blank	10 mL				
LCSD 280-613263/32		SM 2320B		InitialAmount is blank	10 mL				
MB 280-613263/33		SM 2320B		InitialAmount is blank					
280-176591-C-2	WBGmw-006-230401-GW	SM 2320B	T	InitialAmount is blank					
280-176591-C-4	WBGmw-009-230401-GW	SM 2320B	T	InitialAmount is blank					
280-176591-C-6	WBGmw-018-230401-GW	SM 2320B	T	InitialAmount is blank					
280-176591-C-7	WBGMW-RBmw-018-2023	SM 2320B	T	InitialAmount is blank					
CCV 280-613263/44		SM 2320B		InitialAmount is blank	10 mL				
CCB 280-613263/45		SM 2320B		InitialAmount is blank					

Batch Notes	
Nominal Amount Used	10 mL
Acid ID	0.02 H2SO4_00303
Normality of First Titrant	0.02 N
Sodium Carbonate ID	Alk Stk Std_00023
pH Buffer 1 ID	pH 2.0 buffer_00100
pH Buffer 2 ID	pH 4.0 buffer_00211
pH Buffer 3 ID	pH 7.0 buffer_00323
pH Buffer 4 ID	pH 7.0 buffer_00322
pH Buffer 5 ID	pH 10 buffer_00163
pH Buffer 6 ID	pH 12 buffer_00182
Probe ID	PCE 80 pH 1200D_8918
Batch Comment	KG

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.: 280-176591-1

SDG No.:

Batch Number: 613263 Batch Start Date: 05/19/23 12:32 Batch Analyst: Guillen, Kristela E

Batch Method: SM 2320B Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

General Chemistry Raw Data Report

Job ID: 280-176591-1

Batch: 613208 **Analyst Initials: CAI**

Method: 9034 **Instrument: No Equipment Used for this Test**

Lab Sample ID: LCS 280-613197/1-A

Analysis Date: May 19, 2023 17:27

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Sulfide	None	1	16	mg/L	50 mL	50 mL

Lab Sample ID: MB 280-613197/2-A

Analysis Date: May 19, 2023 17:27

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Sulfide	None	1	0	mg/L	50 mL	50 mL

Lab Sample ID: 280-176591-E-2-A

Analysis Date: May 19, 2023 17:27

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Sulfide	None	1	0	mg/L	50 mL	50 mL

Lab Sample ID: 280-176591-E-4-A

Analysis Date: May 19, 2023 17:27

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Sulfide	None	1	0.8	mg/L	50 mL	50 mL

Lab Sample ID: 280-176591-E-6-A

Analysis Date: May 19, 2023 17:27

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Sulfide	None	1	0	mg/L	50 mL	50 mL

Lab Sample ID: 280-176591-E-7-A

Analysis Date: May 19, 2023 17:27

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Sulfide	None	1	0	mg/L	50 mL	50 mL

Sulfide by Titration

Analyst:	CAI	SOP Information:	
Date:	5/19/2023	Number:	91
Titration Solutions		**Calibration Information**	
Solution 1:	Iodine	Source/Ver-Lot#:	INT_02386
TALS ID	Iod_00279	Prep Date:	4/26/2023
Normality:	0.1	Made By:	CAI
Solution 2:	sodium thiosulfate	Concentration:	952
TALS ID	Na Thio_00181	Expiration Date:	7/26/2023
Normality:	0.025		
	Starch Indicator		
TALS ID	Starch IND_00071		

	CAL Volume	Buret Start	Buret End	mL Iodine	Final mL	Conc mg/L
CAL	5	0.00	8.20	5	8.20	944.000
CAL	5	8.20	16.20	5	8.00	960.000

ICV Information	
Source/Ver-Lot#:	INT_02291
Prep Date:	4/26/2023
Made By:	CAI
Concentration:	920
Expiration Date:	7/26/2023

	CAL Volume	Buret Start	Buret End	mL Iodine	Final mL	Conc mg/L
ICV	5	0.00	8.50	5	8.50	920.000
ICV	5	8.50	17.00	5	8.50	920.000

TALS Raw Data Report

Job Number: 280-176524-1
LIMS Batch: 613208
Equipment: NOEQUIP

Laboratory: Eurofins Denver

RS# 1 Lab ID: **LCS 280-613197/1-A** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		16 mg/L	mg/L	84	44 110		
Sulfide as H2S		17 mg/L	mg/L				

RS# 2 Lab ID: **MB 280-613197/2-A** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	2.0 U mg/L				
Sulfide as H2S		0 mg/L	2.1 U mg/L				

RS# 3 Lab ID: **280-176524-E-1-A** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	2.0 U mg/L				
Sulfide as H2S		0 mg/L	2.1 U mg/L				

RS# 4 Lab ID: **280-176524-E-1-B MS** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		15.2 mg/L	mg/L	80	44 110		
Sulfide as H2S		16.15 mg/L	mg/L				

RS# 5 Lab ID: **280-176524-E-1-C MSD** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		15.2 mg/L	mg/L	80	44 110	0	20
Sulfide as H2S		16.15 mg/L	mg/L				

RS# 6 Lab ID: **280-176524-E-4-A** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	2.0 U mg/L				
Sulfide as H2S		0 mg/L	2.1 U mg/L				

TALS Raw Data Report

Job Number: 280-176526-1
LIMS Batch: 613208
Equipment: NOEQUIP

Laboratory: Eurofins Denver

RS# 1 Lab ID: **LCS 280-613197/1-A** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		16 mg/L	mg/L	84	44 110		
Sulfide as H2S		17 mg/L	mg/L				

RS# 2 Lab ID: **MB 280-613197/2-A** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

RS# 3 Lab ID: **280-176524-E-1-A** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

RS# 4 Lab ID: **280-176524-E-1-B MS** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		15.2 mg/L	mg/L	80	44 110		
Sulfide as H2S		16.15 mg/L	mg/L				

RS# 5 Lab ID: **280-176524-E-1-C MSD** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		15.2 mg/L	mg/L	80	44 110	0	20
Sulfide as H2S		16.15 mg/L	mg/L				

RS# 13 Lab ID: **280-176526-O-1-A** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

TALS Raw Data Report

Job Number: 280-176591-1
LIMS Batch: 613208
Equipment: NOEQUIP

Laboratory: Eurofins Denver

RS# 1 Lab ID: **LCS 280-613197/1-A** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		16 mg/L	mg/L	84	44 110		
Sulfide as H2S		17 mg/L	mg/L				

RS# 2 Lab ID: **MB 280-613197/2-A** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	2.0 U mg/L				
Sulfide as H2S		0 mg/L	2.1 U mg/L				

RS# 3 Lab ID: **280-176524-E-1-A** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	2.0 U mg/L				
Sulfide as H2S		0 mg/L	2.1 U mg/L				

RS# 4 Lab ID: **280-176524-E-1-B MS** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		15.2 mg/L	mg/L	80	44 110		
Sulfide as H2S		16.15 mg/L	mg/L				

RS# 5 Lab ID: **280-176524-E-1-C MSD** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		15.2 mg/L	mg/L	80	44 110	0	20
Sulfide as H2S		16.15 mg/L	mg/L				

RS# 7 Lab ID: **280-176591-E-2-A** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	2.0 U mg/L				
Sulfide as H2S		0 mg/L	2.1 U mg/L				

RS# 8 Lab ID: **280-176591-E-4-A** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0.8 mg/L	2.0 U mg/L				
Sulfide as H2S		0.85 mg/L	2.1 U mg/L				

RS# 9 Lab ID: **280-176591-E-6-A** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	2.0 U mg/L				
Sulfide as H2S		0 mg/L	2.1 U mg/L				

RS# 10 Lab ID: **280-176591-E-7-A** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	2.0 U mg/L				
Sulfide as H2S		0 mg/L	2.1 U mg/L				

TALS Raw Data Report

Job Number: 280-176674-1
LIMS Batch: 613208
Equipment: NOEQUIP

Laboratory: Eurofins Denver

RS# 1 Lab ID: **LCS 280-613197/1-A** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		16 mg/L	mg/L	84	44 110		
Sulfide as H2S		17 mg/L	mg/L				

RS# 2 Lab ID: **MB 280-613197/2-A** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	2.0 U mg/L				
Sulfide as H2S		0 mg/L	2.1 U mg/L				

RS# 3 Lab ID: **280-176524-E-1-A** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	2.0 U mg/L				
Sulfide as H2S		0 mg/L	2.1 U mg/L				

RS# 4 Lab ID: **280-176524-E-1-B MS** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		15.2 mg/L	mg/L	80	44 110		
Sulfide as H2S		16.15 mg/L	mg/L				

RS# 5 Lab ID: **280-176524-E-1-C MSD** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		15.2 mg/L	mg/L	80	44 110	0	20
Sulfide as H2S		16.15 mg/L	mg/L				

RS# 11 Lab ID: **280-176674-E-7-A** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	2.0 U mg/L				
Sulfide as H2S		0 mg/L	2.1 U mg/L				

RS# 12 Lab ID: **280-176674-B-8-A** Inj Date: 5/19/2023 5:27:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0.8 mg/L	2.0 U mg/L				
Sulfide as H2S		0.85 mg/L	2.1 U mg/L				

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-141
Lims ID: STD L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 12-Apr-2023 14:04:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0120345-001
Misc. Info.: 280-0120345-001
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 14-Apr-2023 14:03:48 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1620

First Level Reviewer: LVW8 Date: 12-Apr-2023 15:40:32

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.175				ND	
2 Chloride	4.383	4.383	0.000	7464190	NC	NC	M
3 Nitrite as N		5.103				ND	
4 Bromide		6.292				ND	U
5 Nitrate as N		7.057				ND	
6 Orthophosphate as P	9.447	9.447	0.000	3338493		-0.3613	M
7 Sulfate	10.645	10.645	0.000	7022789	NC	NC	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Reagents:

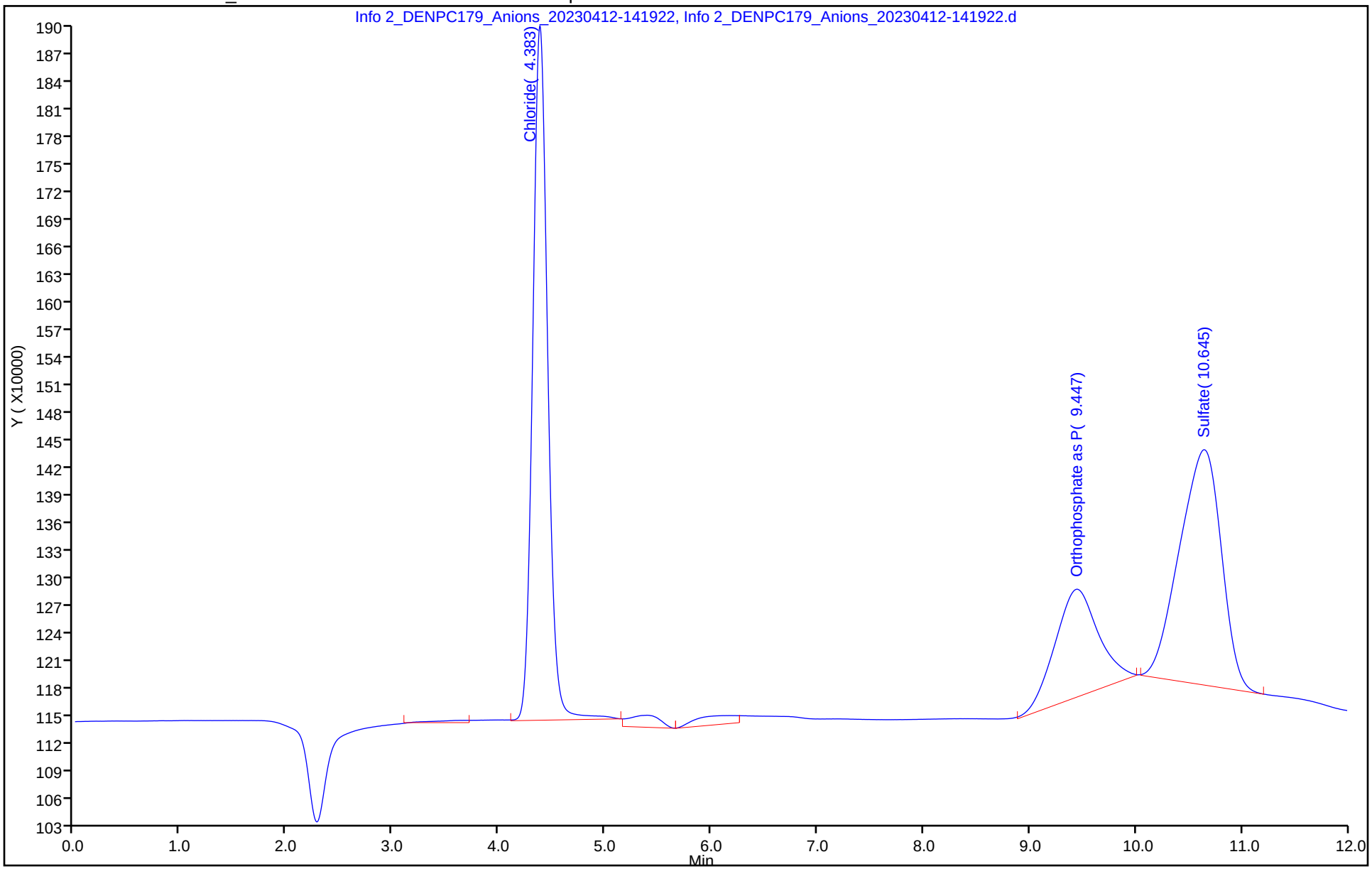
IC CAL cl/so4_00475 Amount Added: 0.04 Units: mL
IC Cal low_00703 Amount Added: 0.00 Units: mL

Report Date: 14-Apr-2023 14:03:49 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-141922.d

Injection Date:	12-Apr-2023 14:04:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	STD L1			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-141

Injection Date: 12-Apr-2023 14:04:00 Instrument ID: WC_IonChrom10

Lims ID: STD L1

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 1

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

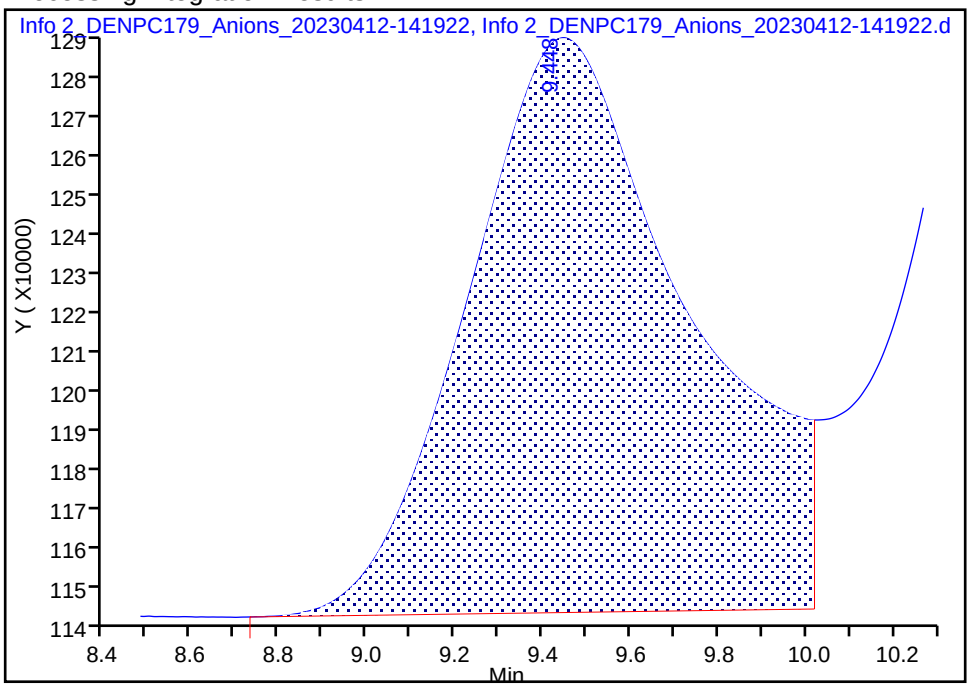
Column: Detector Info 2_091554_1

6 Orthophosphate as P, CAS: STL00599

Signal: 1

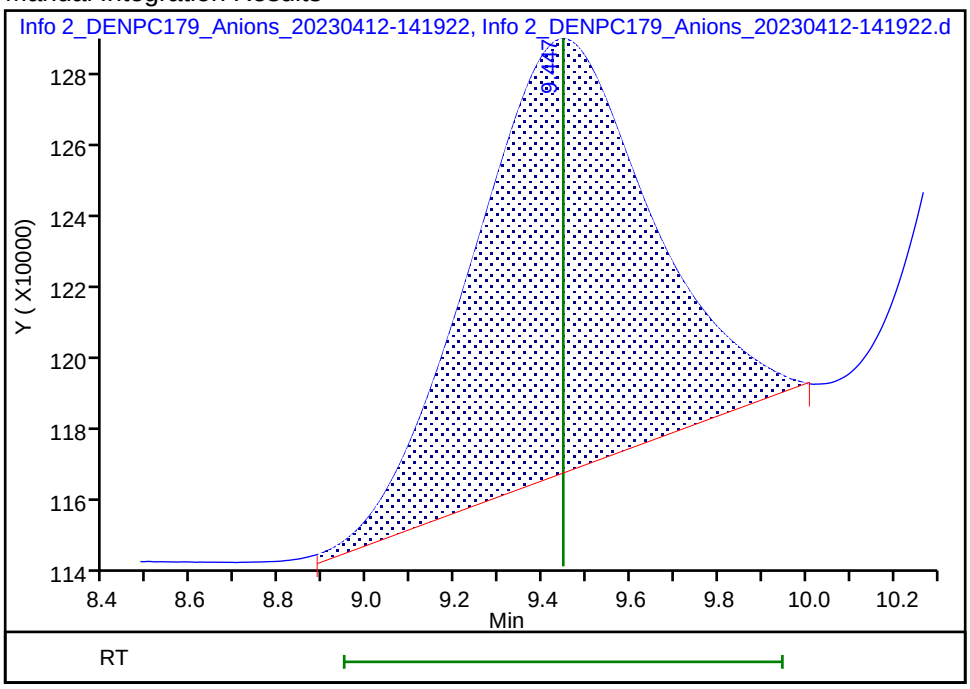
Processing Integration Results

RT: 9.45
Area: 4931641
Amount: -0.506480
Amount Units: ug/ml



Manual Integration Results

RT: 9.45
Area: 3338493
Amount: -0.361342
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:40:49

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Report Date: 14-Apr-2023 14:03:51 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-143
Lims ID: STD L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 12-Apr-2023 14:19:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0120345-002
Misc. Info.: 280-0120345-002
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 14-Apr-2023 14:03:50 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1620

First Level Reviewer: LVW8 Date: 12-Apr-2023 15:41:35

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.163	3.163	0.000	6262507	NC	NC	Ma
2 Chloride	4.380	4.380	0.000	20679388	NC	NC	M
3 Nitrite as N	5.115	5.115	0.000	8087413	0.2000	0.2019	M
4 Bromide	6.352	6.352	0.000	2964734	NC	NC	
5 Nitrate as N	7.383	7.383	0.000	8434441	0.2000	0.2195	a
6 Orthophosphate as P	9.813	9.813	0.000	13953811	0.2000	0.1404	M
7 Sulfate	11.045	11.045	0.000	14421328	NC	NC	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

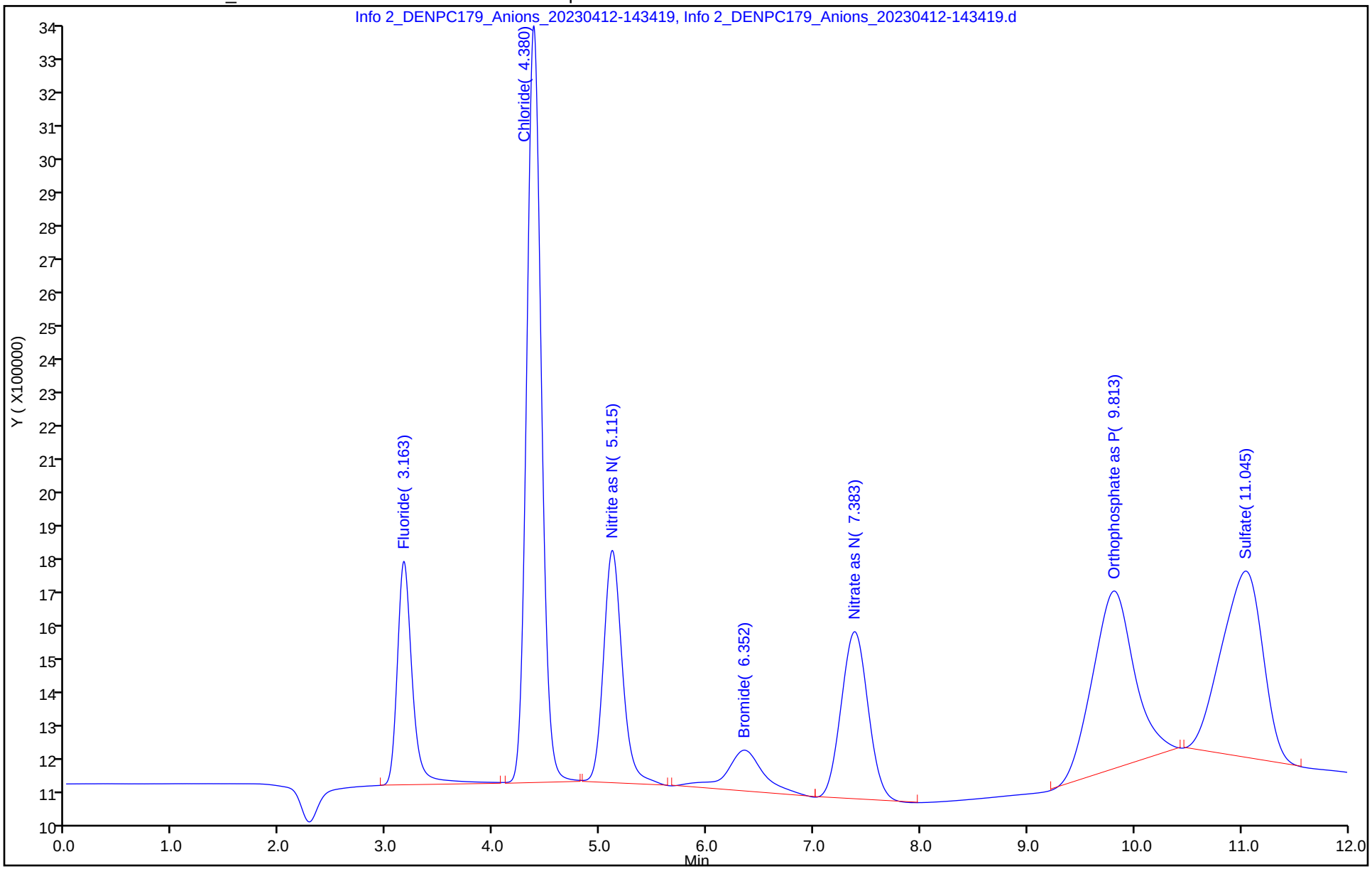
IC CAL cl/so4_00475 Amount Added: 0.10 Units: mL
IC Cal low_00703 Amount Added: 0.08 Units: mL

Report Date: 14-Apr-2023 14:03:51 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-143419.d

Injection Date:	12-Apr-2023 14:19:00	Instrument ID:	WC_IonChrom10	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_IC10	Limit Group:	Wet - Anions		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-143

Injection Date: 12-Apr-2023 14:19:00 Instrument ID: WC_IonChrom10

Lims ID: STD L2

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 2

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

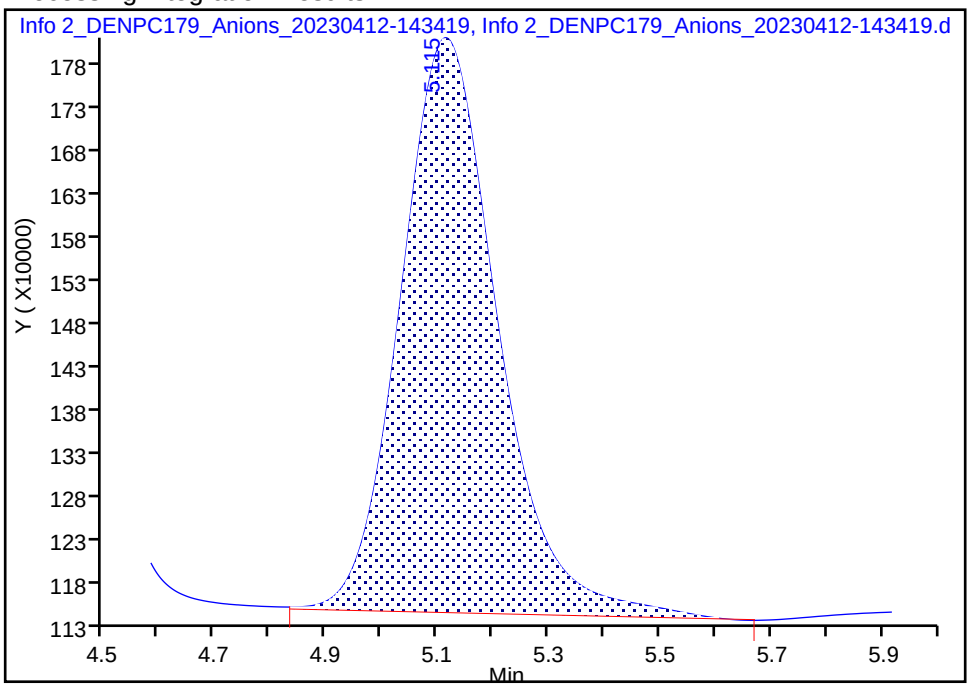
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0

Signal: 1

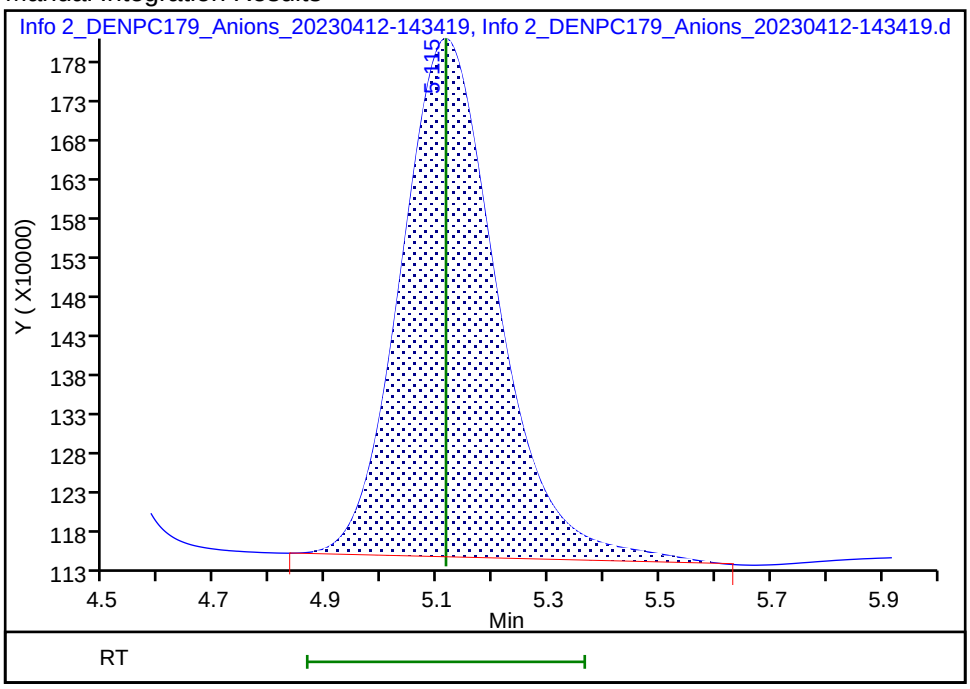
Processing Integration Results

RT: 5.12
Area: 8151496
Amount: 0.199877
Amount Units: ug/ml



Manual Integration Results

RT: 5.12
Area: 8087413
Amount: 0.201920
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:41:06

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-143

Injection Date: 12-Apr-2023 14:19:00 Instrument ID: WC_IonChrom10

Lims ID: STD L2

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 2

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

Column: Detector Info 2_091554_1

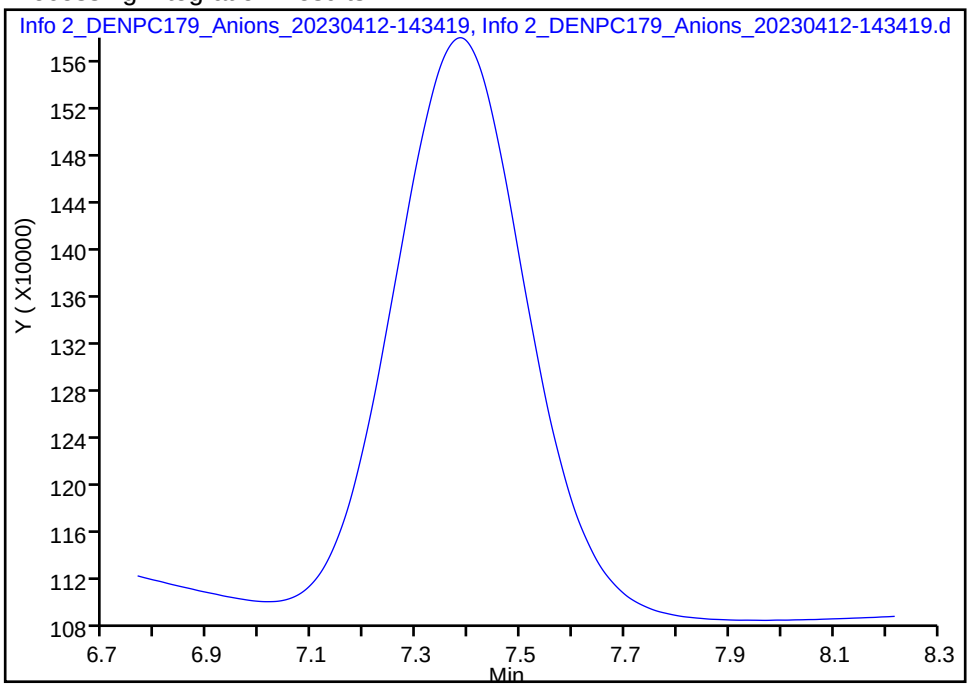
5 Nitrate as N, CAS: 14797-55-8

Signal: 1

Not Detected

Expected RT: 7.38

Processing Integration Results



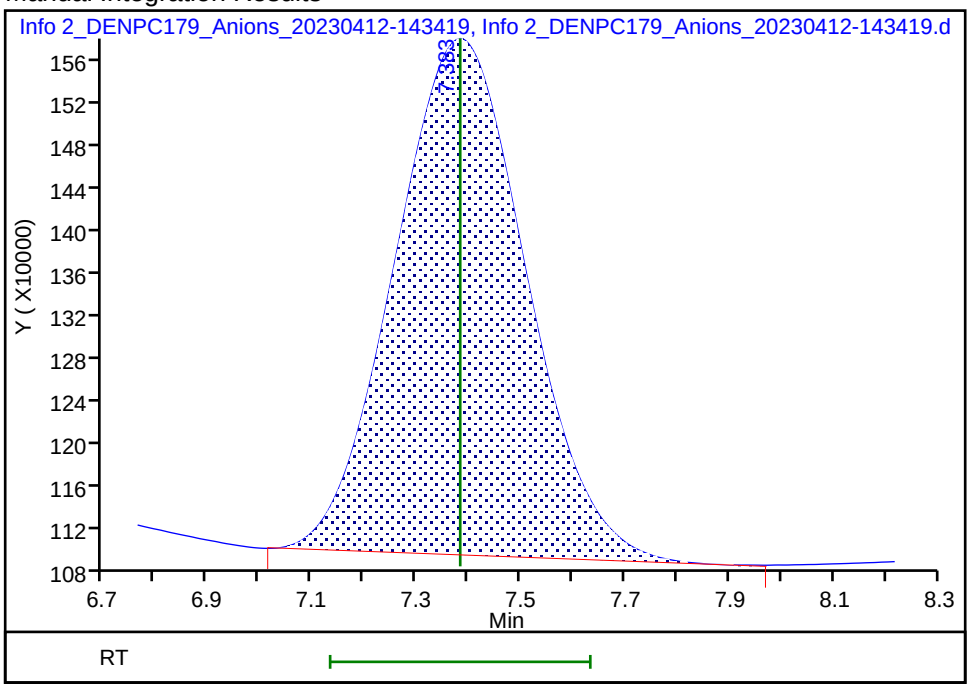
Manual Integration Results

RT: 7.38

Area: 8434441

Amount: 0.219511

Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:41:22

Audit Action: Assigned Compound ID Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-143

Injection Date: 12-Apr-2023 14:19:00 Instrument ID: WC_IonChrom10

Lims ID: STD L2

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 2

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

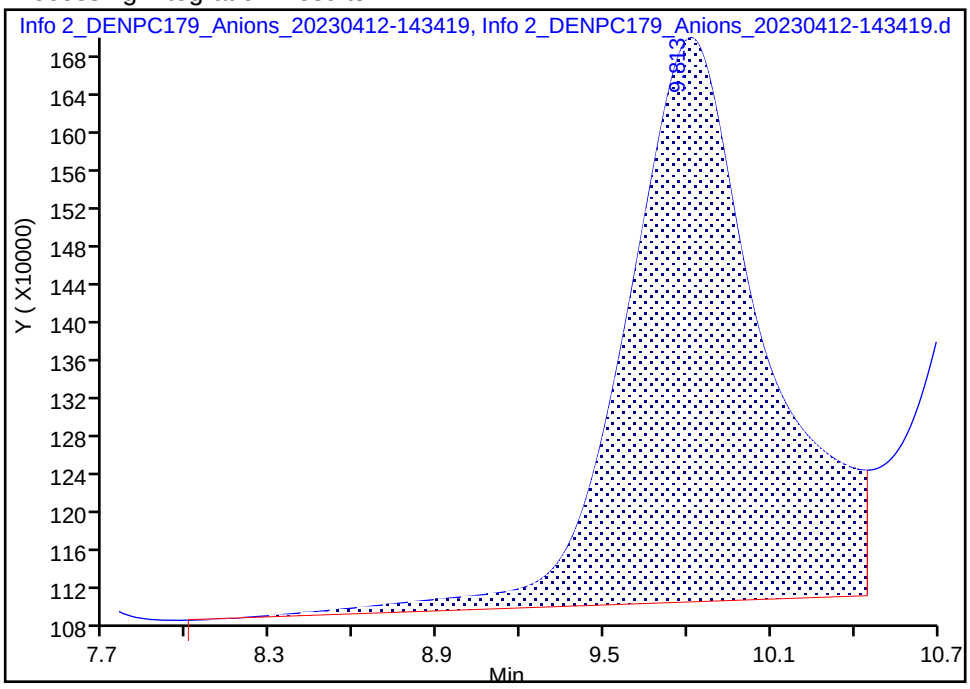
Column: Detector Info 2_091554_1

6 Orthophosphate as P, CAS: STL00599

Signal: 1

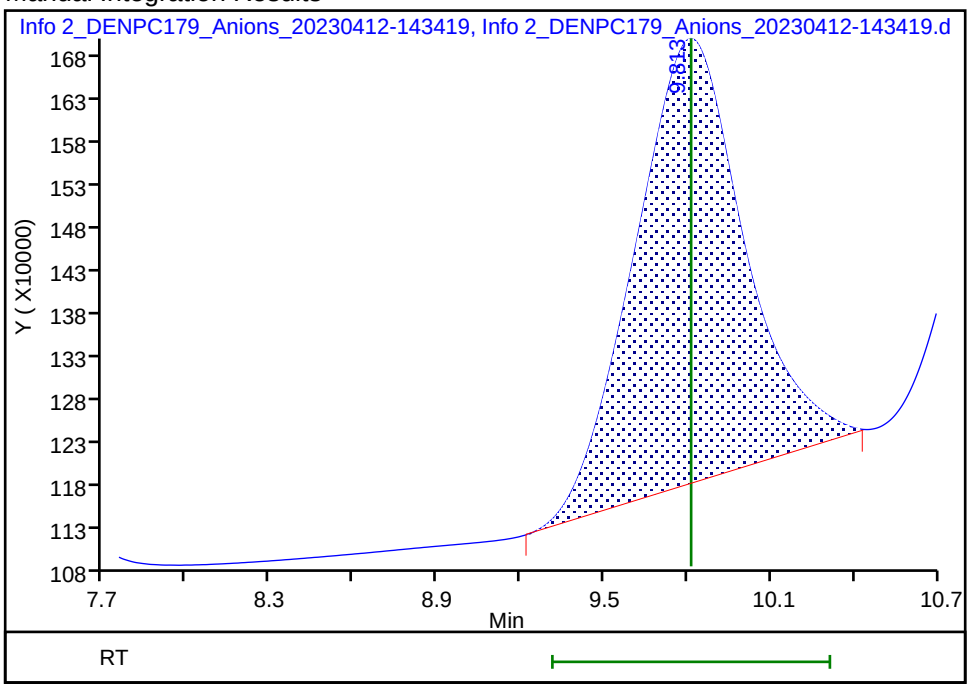
Processing Integration Results

RT: 9.81
Area: 20197362
Amount: 0.155449
Amount Units: ug/ml



Manual Integration Results

RT: 9.81
Area: 13953811
Amount: 0.140386
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:41:19

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Report Date: 14-Apr-2023 14:03:53 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-144
Lims ID: STD L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 12-Apr-2023 14:34:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0120345-003
Misc. Info.: 280-0120345-003
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 14-Apr-2023 14:03:53 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1620

First Level Reviewer: LVW8 Date: 12-Apr-2023 15:42:15

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.168	3.168	0.000	16995372	NC	NC	Ma
2 Chloride	4.383	4.383	0.000	43975181	NC	NC	M
3 Nitrite as N	5.118	5.118	0.000	21615246	0.5000	0.4936	M
4 Bromide	6.317	6.317	0.000	3222251	NC	NC	M
5 Nitrate as N	7.123	7.123	0.000	19909305	0.5000	0.4697	M
6 Orthophosphate as P	9.405	9.405	0.000	23629516	0.5000	0.5977	M
7 Sulfate	10.647	10.647	0.000	29311364	NC	NC	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

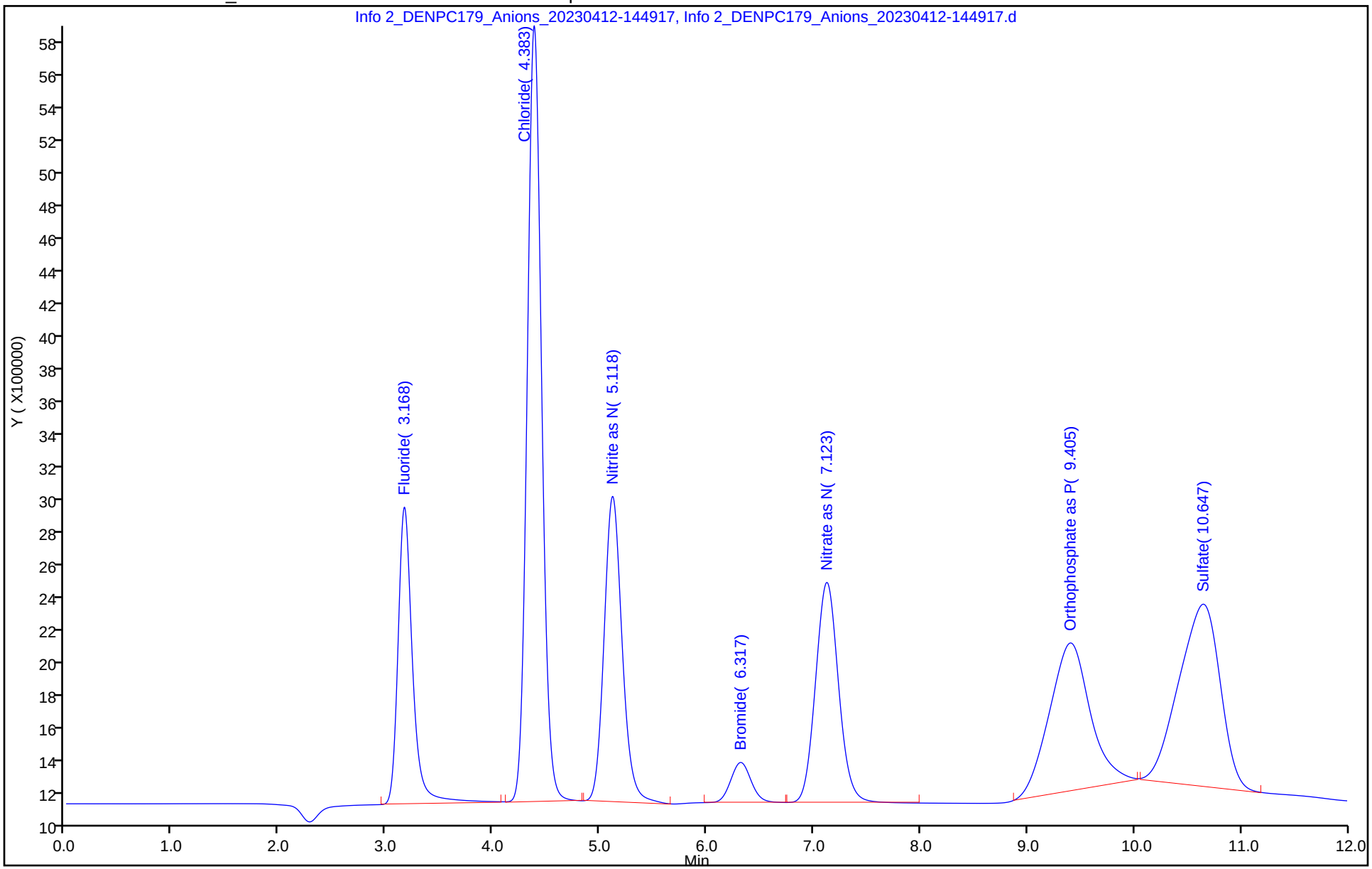
IC CAL cl/so4_00475 Amount Added: 0.20 Units: mL
IC Cal low_00703 Amount Added: 0.20 Units: mL

Report Date: 14-Apr-2023 14:03:53 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-144917.d

Injection Date:	12-Apr-2023 14:34:00	Instrument ID:	WC_IonChrom10	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_IC10	Limit Group:	Wet - Anions		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-144

Injection Date: 12-Apr-2023 14:34:00 Instrument ID: WC_IonChrom10

Lims ID: STD L3

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

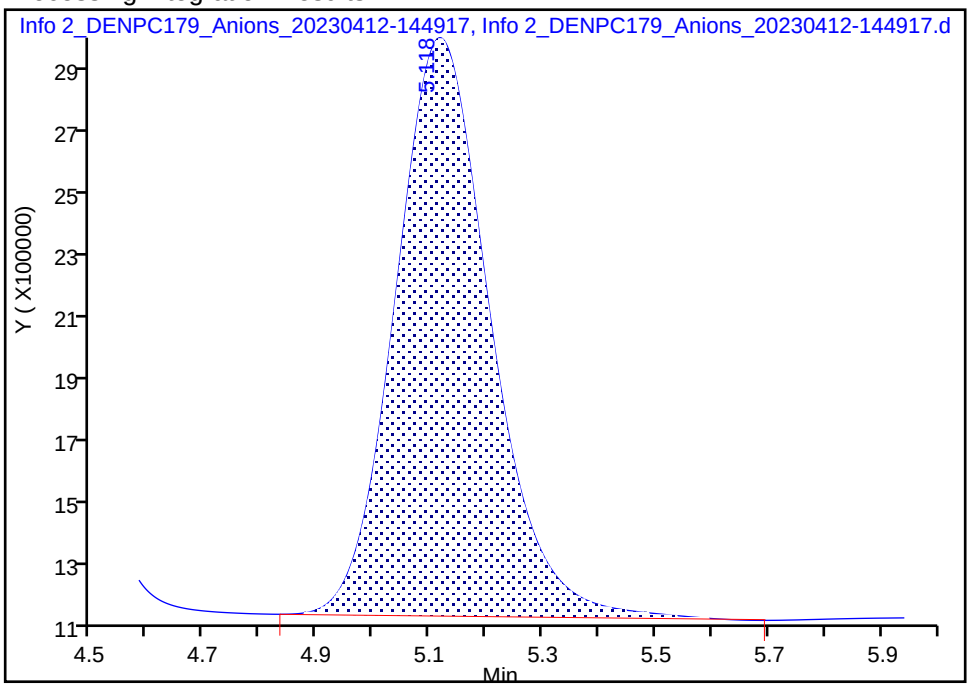
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0

Signal: 1

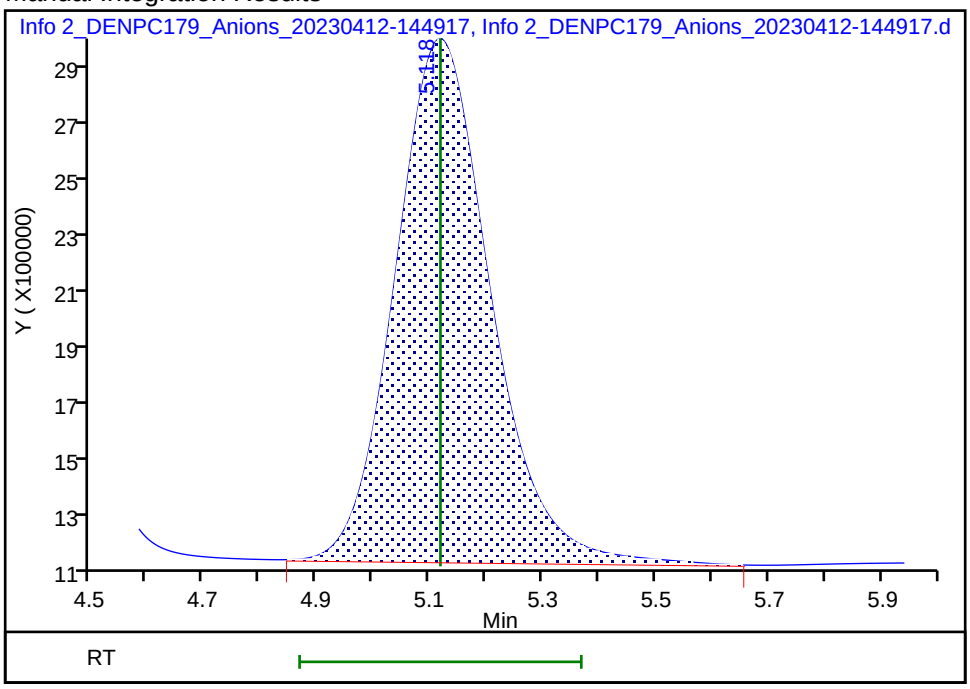
Processing Integration Results

RT: 5.12
Area: 21704269
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 5.12
Area: 21615246
Amount: 0.493602
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:41:46

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-144

Injection Date: 12-Apr-2023 14:34:00 Instrument ID: WC_IonChrom10

Lims ID: STD L3

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

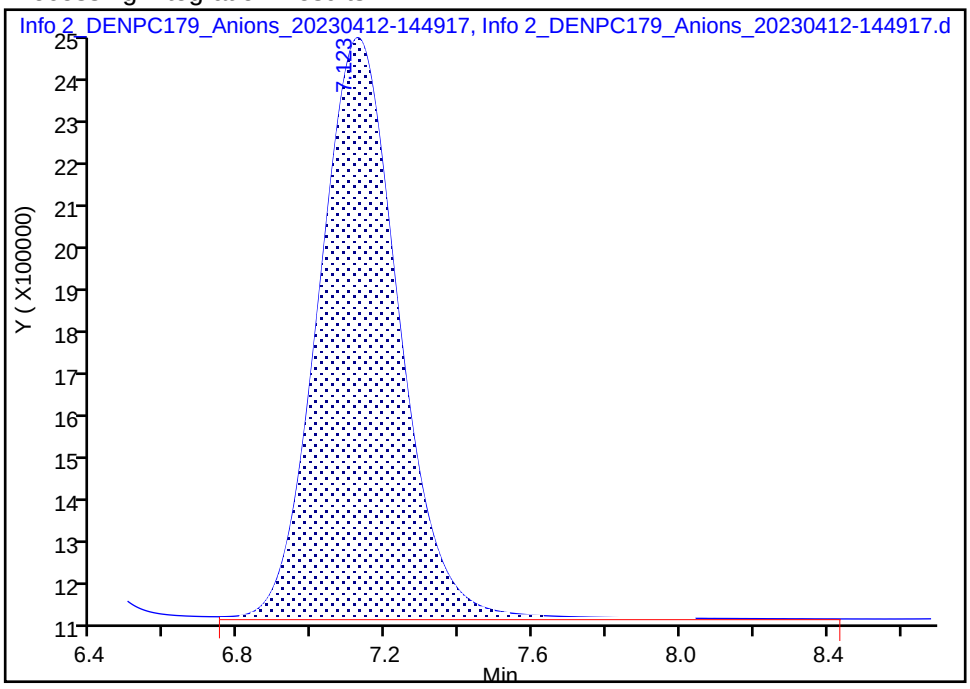
Column: Detector Info 2_091554_1

5 Nitrate as N, CAS: 14797-55-8

Signal: 1

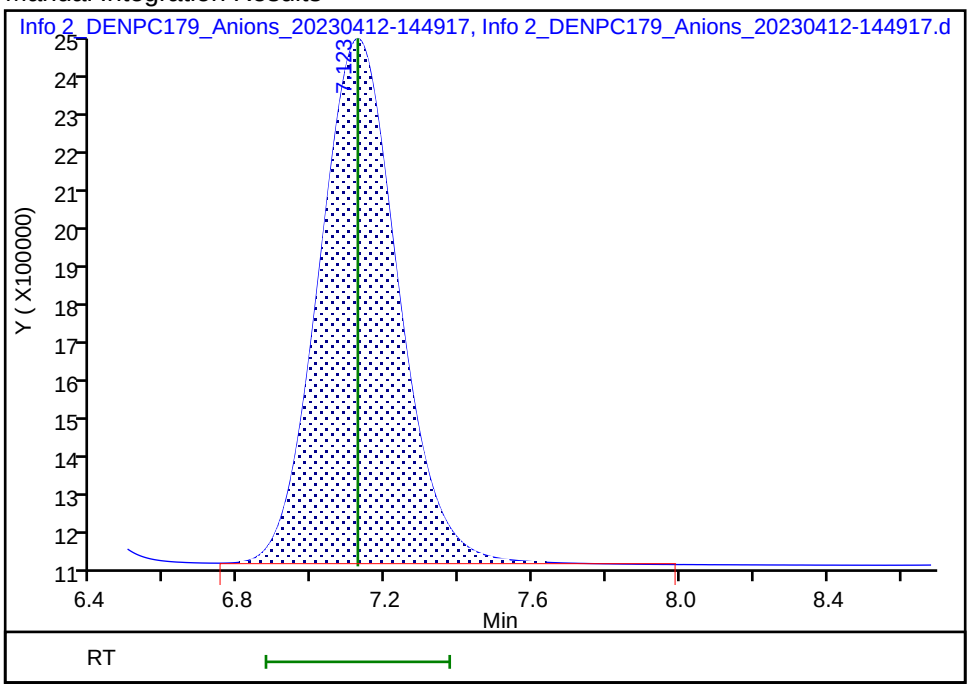
Processing Integration Results

RT: 7.12
Area: 20406914
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 7.12
Area: 19909305
Amount: 0.469685
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:41:55

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-144

Injection Date: 12-Apr-2023 14:34:00 Instrument ID: WC_IonChrom10

Lims ID: STD L3

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

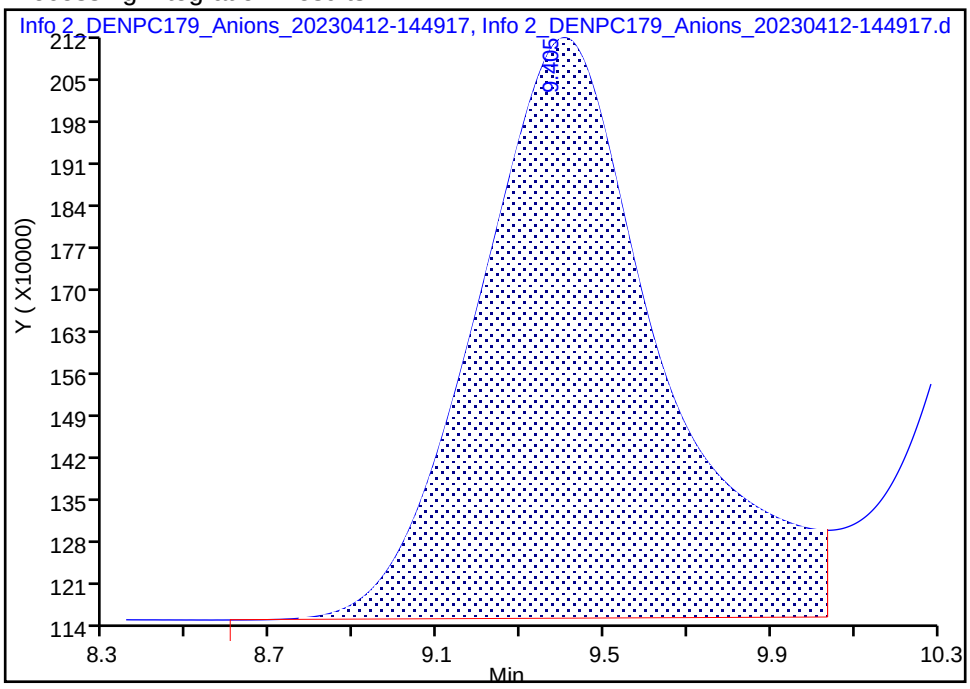
Column: Detector Info 2_091554_1

6 Orthophosphate as P, CAS: STL00599

Signal: 1

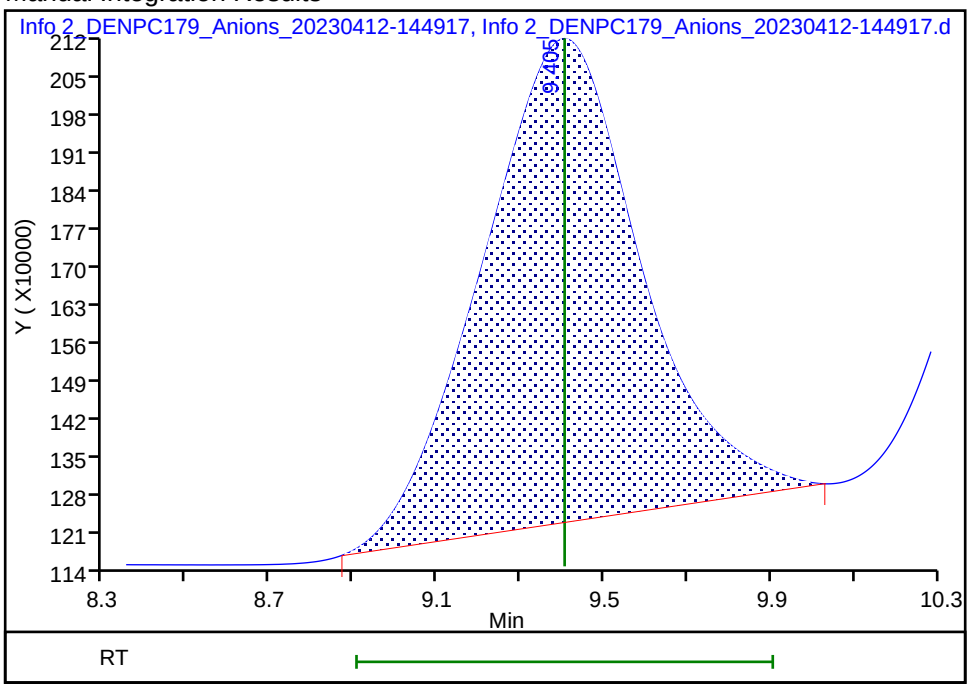
Processing Integration Results

RT: 9.41
Area: 29322324
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 9.41
Area: 23629516
Amount: 0.597704
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:42:10

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Report Date: 14-Apr-2023 14:03:55 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-150
Lims ID: STD L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 12-Apr-2023 14:49:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0120345-004
Misc. Info.: 280-0120345-004
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 14-Apr-2023 14:03:55 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1620

First Level Reviewer: LVW8 Date: 12-Apr-2023 15:42:52

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.168	3.168	0.000	37412858	NC	NC	Ma
2 Chloride	4.390	4.390	0.000	575824993	NC	NC	M
3 Nitrite as N	5.113	5.113	0.000	44844044	1.00	0.99	M
4 Bromide	6.308	6.308	0.000	6583592	NC	NC	M
5 Nitrate as N	7.103	7.103	0.000	42066844	1.00	0.9528	M
6 Orthophosphate as P	9.388	9.388	0.000	34760084	1.00	1.12	M
7 Sulfate	10.628	10.628	0.000	410479688	NC	NC	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

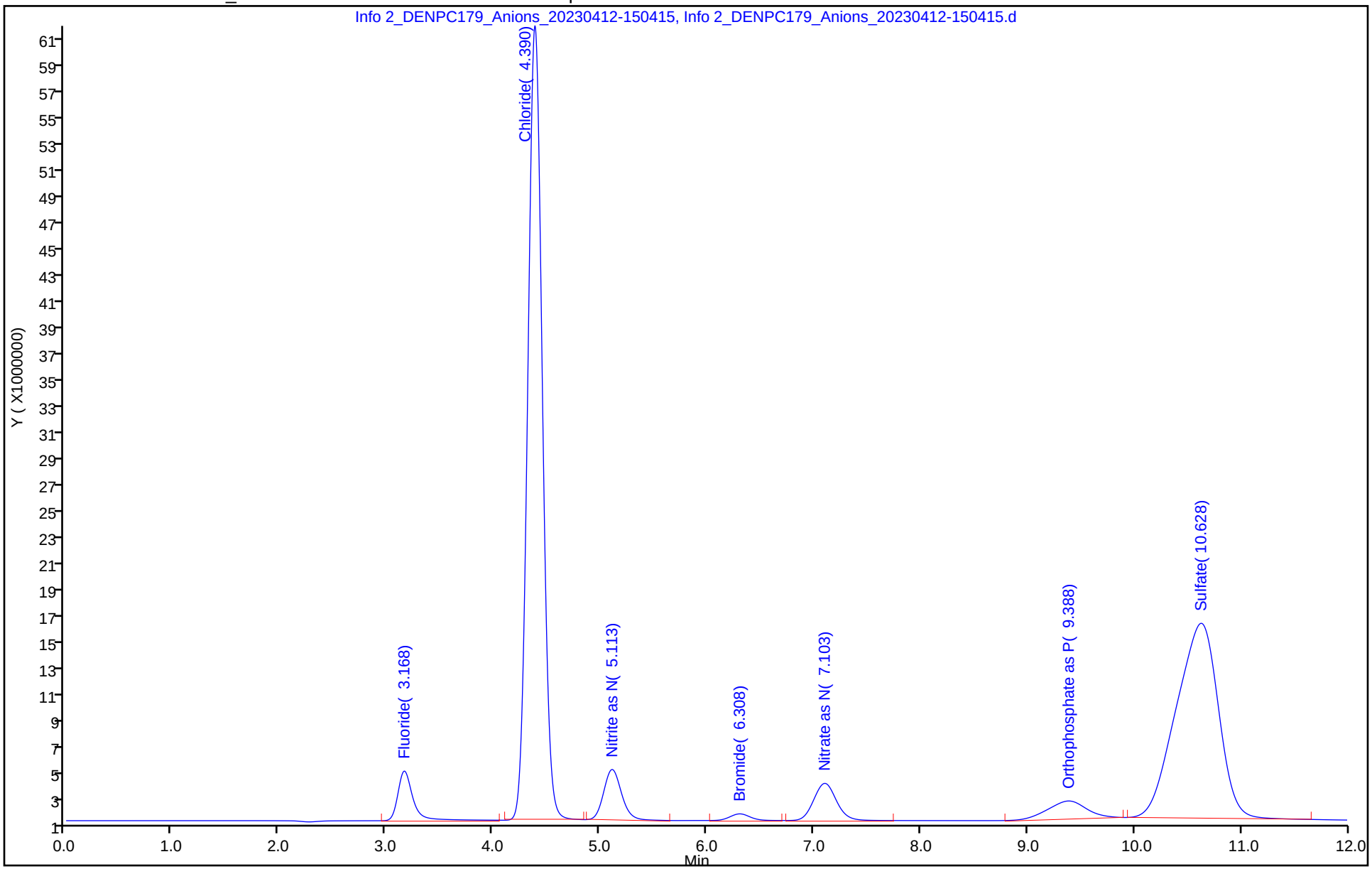
Reagents:

IC CAL cl/so4_00475 Amount Added: 2.40 Units: mL
IC Cal low_00703 Amount Added: 0.40 Units: mL

Report Date: 14-Apr-2023 14:03:55 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-150415.d				
Injection Date:	12-Apr-2023 14:49:00	Instrument ID:	WC_IonChrom10	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_IC10	Limit Group:	Wet - Anions		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-150

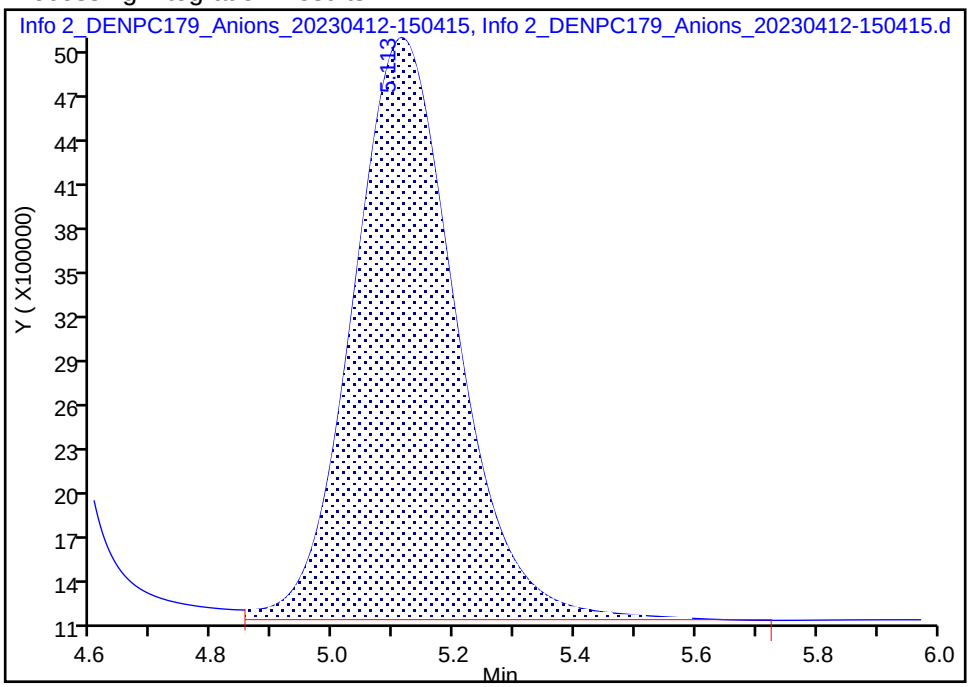
Injection Date:	12-Apr-2023 14:49:00	Instrument ID:	WC_IonChrom10
Lims ID:	STD L4		
Client ID:			
Operator ID:	wetchemd	ALS Bottle#:	0 Worklist Smp#: 4
Injection Vol:	5.0 ul	Dil. Factor:	1.0000
Method:	Anions_IC10	Limit Group:	Wet - Anions
Column:		Detector	Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0

Signal: 1

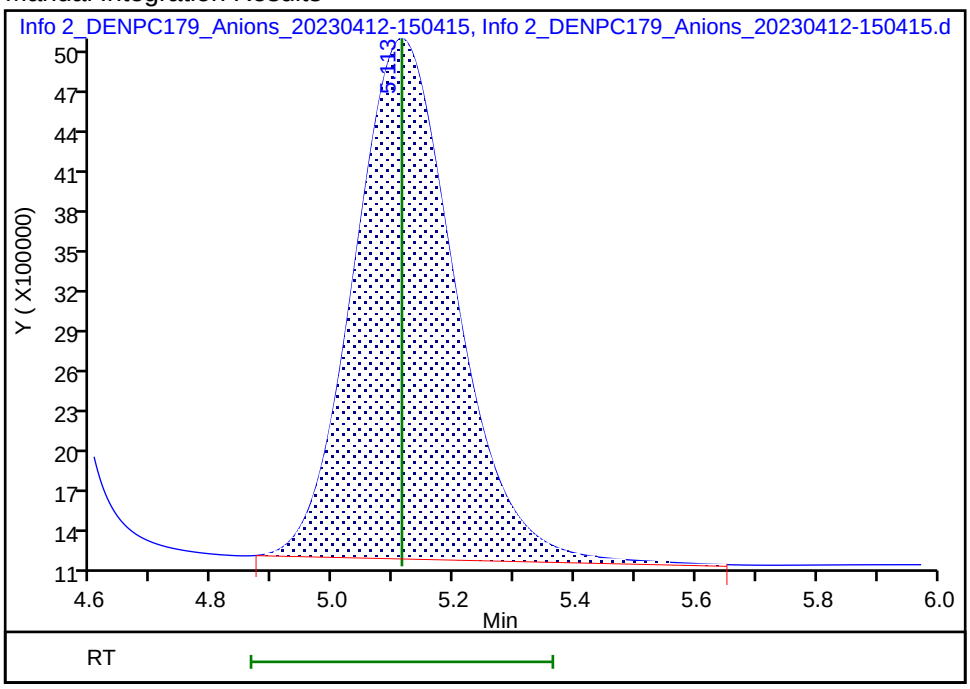
Processing Integration Results

RT: 5.11
Area: 46326440
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 5.11
Area: 44844044
Amount: 0.994454
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:42:27

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

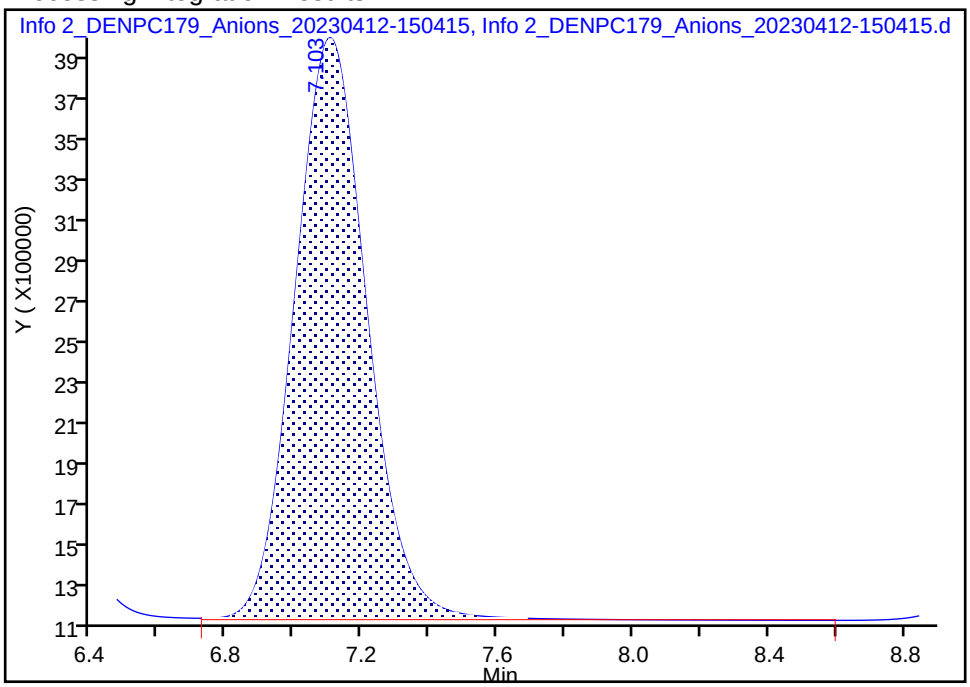
Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-150
Injection Date: 12-Apr-2023 14:49:00 Instrument ID: WC_IonChrom10
Lims ID: STD L4
Client ID:
Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: Anions_IC10 Limit Group: Wet - Anions
Column: Detector Info 2_091554_1

5 Nitrate as N, CAS: 14797-55-8

Signal: 1

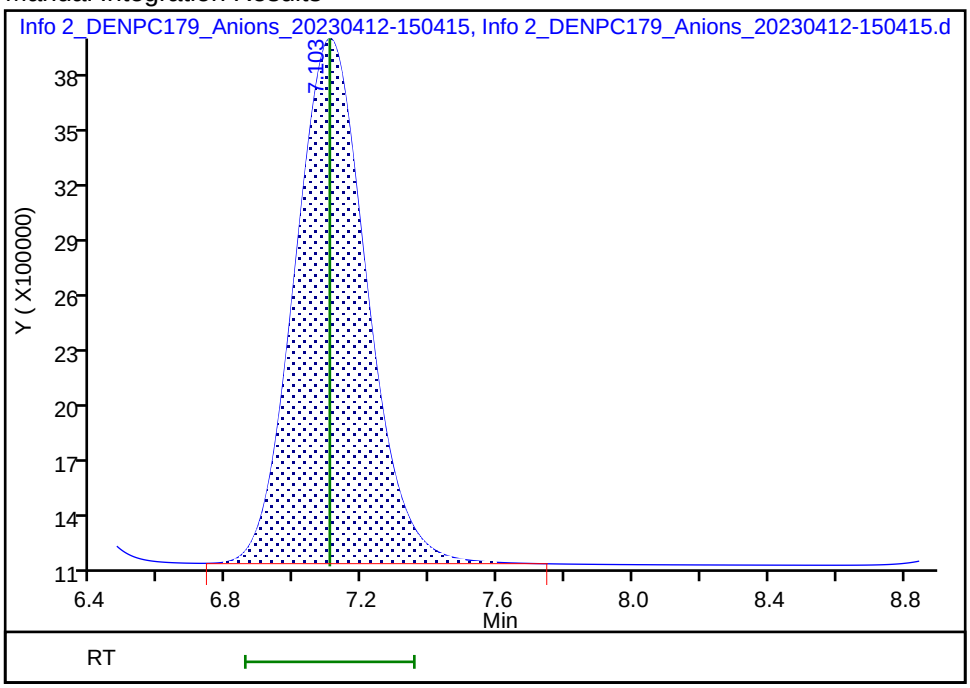
Processing Integration Results

RT: 7.10
Area: 42281044
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 7.10
Area: 42066844
Amount: 0.952760
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:42:36
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

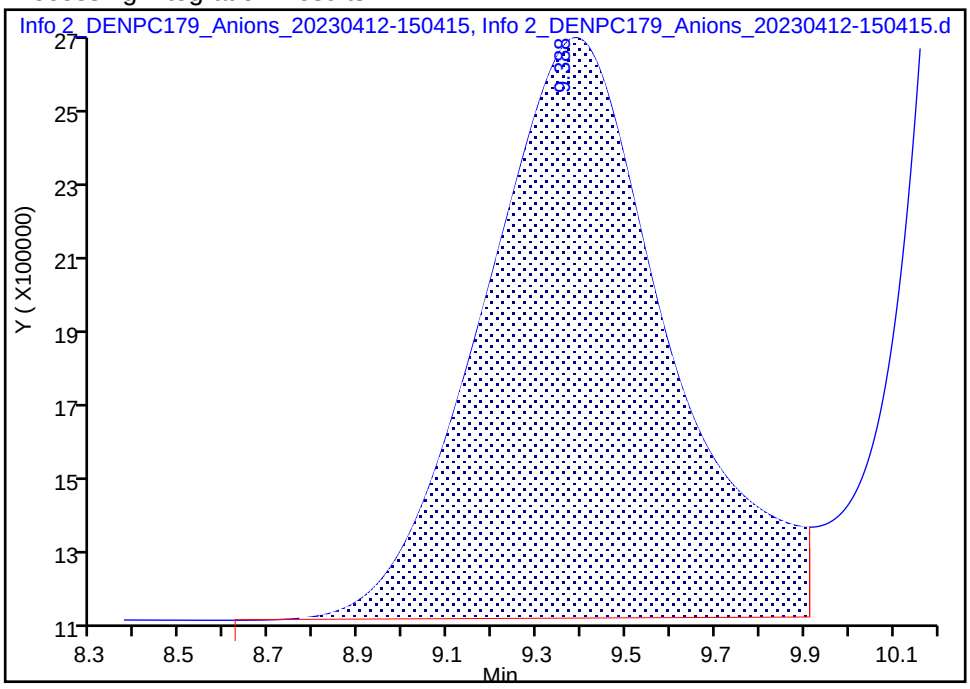
Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-150
Injection Date: 12-Apr-2023 14:49:00 Instrument ID: WC_IonChrom10
Lims ID: STD L4
Client ID:
Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: Anions_IC10 Limit Group: Wet - Anions
Column: Detector Info 2_091554_1

6 Orthophosphate as P, CAS: STL00599

Signal: 1

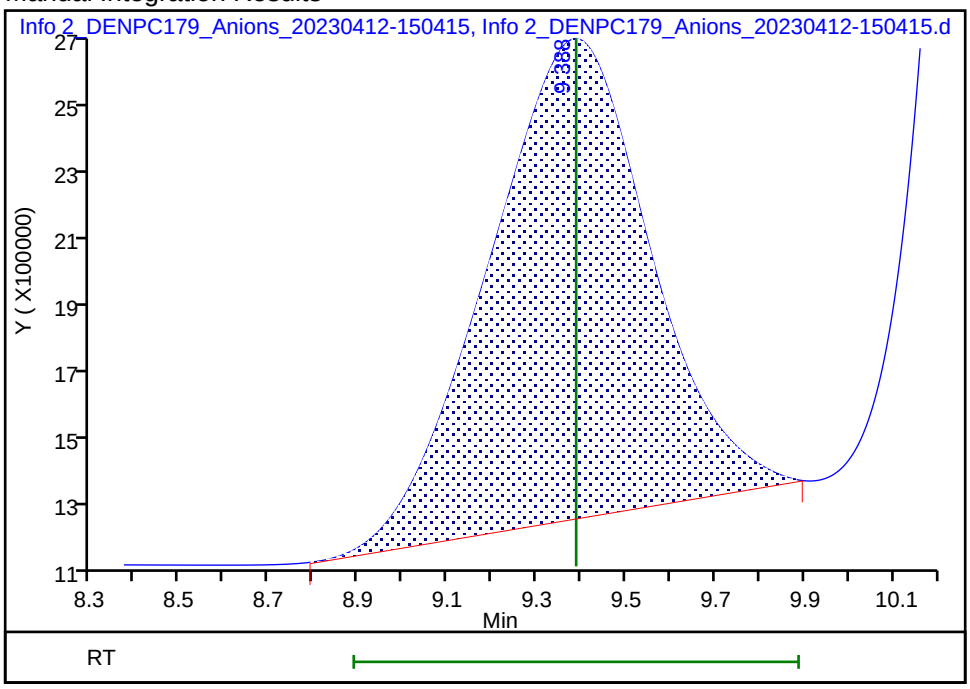
Processing Integration Results

RT: 9.39
Area: 42806166
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 9.39
Area: 34760084
Amount: 1.123785
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:42:46
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Report Date: 14-Apr-2023 14:03:58 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-151
Lims ID: STD L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 12-Apr-2023 15:04:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0120345-005
Misc. Info.: 280-0120345-005
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 14-Apr-2023 14:03:57 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1620

First Level Reviewer: LVW8 Date: 12-Apr-2023 15:43:24

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.170	3.170	0.000	96629288	NC	NC	Ma
2 Chloride	4.405	4.405	0.000	1149686166	NC	NC	M
3 Nitrite as N	5.107	5.107	0.000	116231748	2.50	2.53	M
4 Bromide	6.298	6.298	0.000	17672625	NC	NC	
5 Nitrate as N	7.078	7.078	0.000	112738215	2.50	2.49	M
6 Orthophosphate as P	9.368	9.368	0.000	65067694	2.50	2.56	M
7 Sulfate	10.610	10.610	0.000	828007497	NC	NC	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

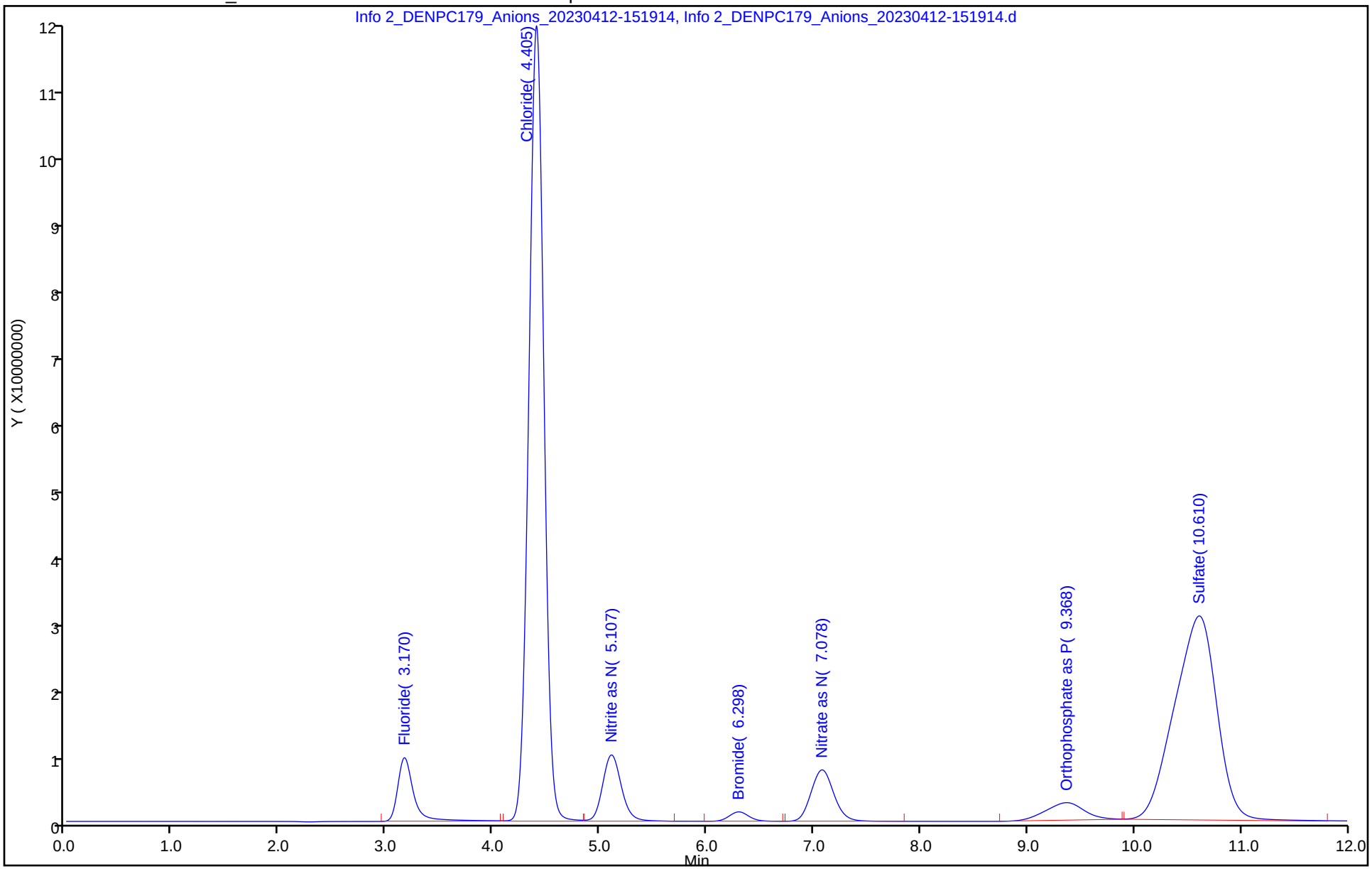
IC CAL cl/so4_00475 Amount Added: 4.80 Units: mL
IC Cal low_00703 Amount Added: 1.00 Units: mL

Report Date: 14-Apr-2023 14:03:58 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-151914.d

Injection Date:	12-Apr-2023 15:04:00	Instrument ID:	WC_IonChrom10	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_IC10	Limit Group:	Wet - Anions		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-151

Injection Date: 12-Apr-2023 15:04:00 Instrument ID: WC_IonChrom10

Lims ID: STD L5

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

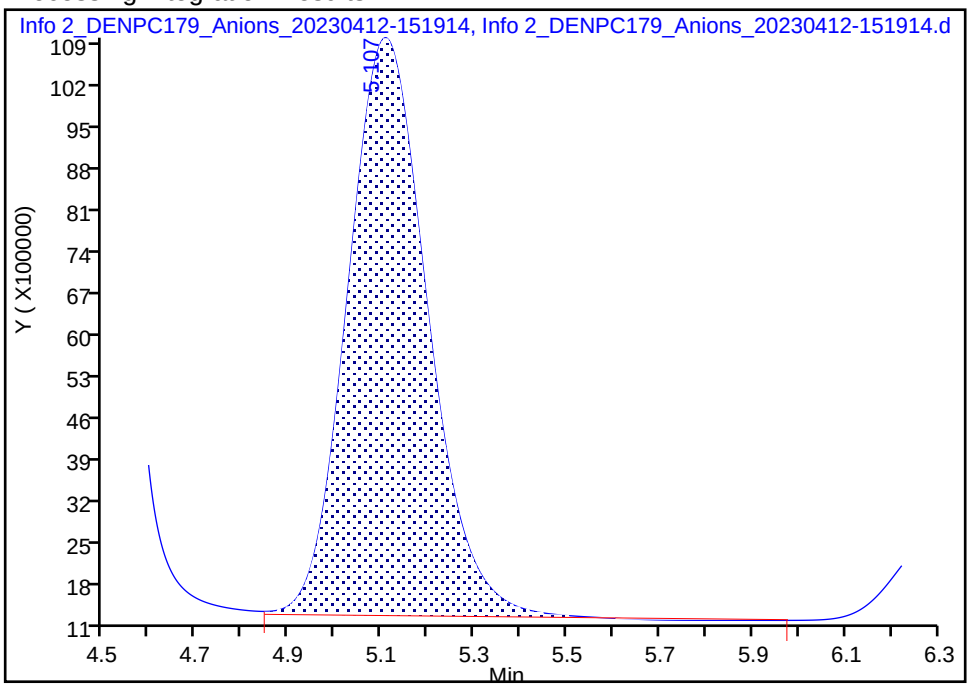
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0

Signal: 1

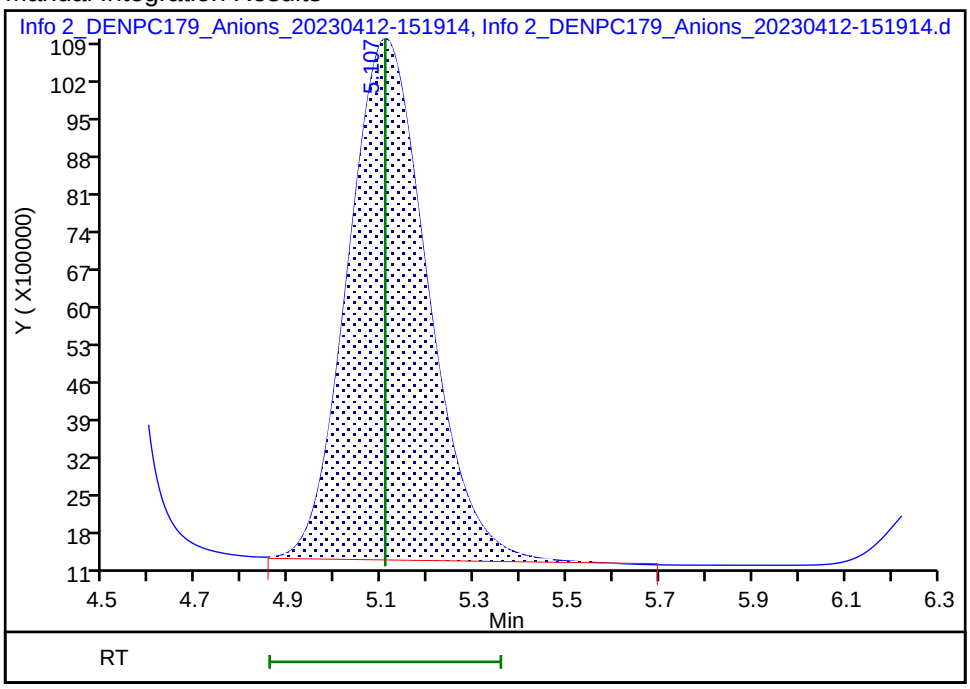
Processing Integration Results

RT: 5.11
Area: 117216841
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 5.11
Area: 116231748
Amount: 2.533691
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:43:01

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-151

Injection Date: 12-Apr-2023 15:04:00 Instrument ID: WC_IonChrom10

Lims ID: STD L5

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

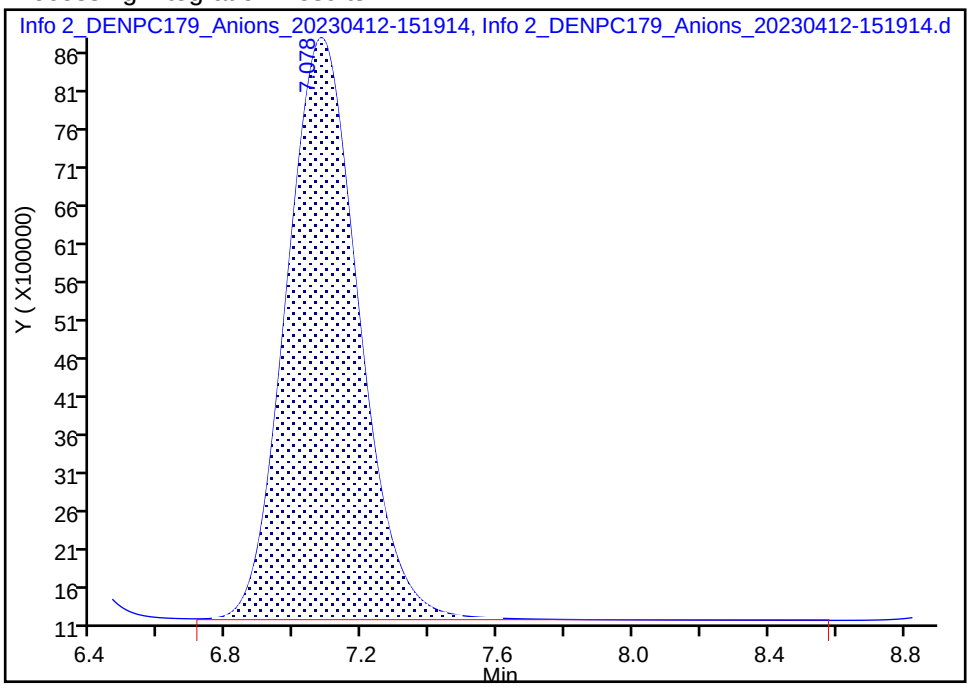
Column: Detector Info 2_091554_1

5 Nitrate as N, CAS: 14797-55-8

Signal: 1

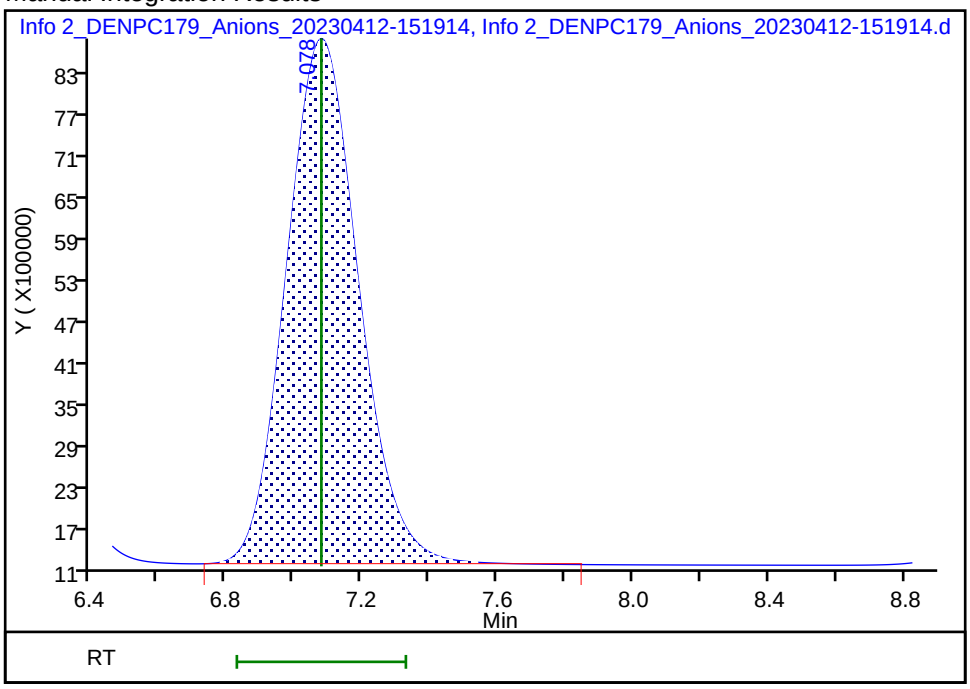
Processing Integration Results

RT: 7.08
Area: 112804805
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 7.08
Area: 112738215
Amount: 2.493526
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:43:10

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-151

Injection Date: 12-Apr-2023 15:04:00 Instrument ID: WC_IonChrom10

Lims ID: STD L5

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

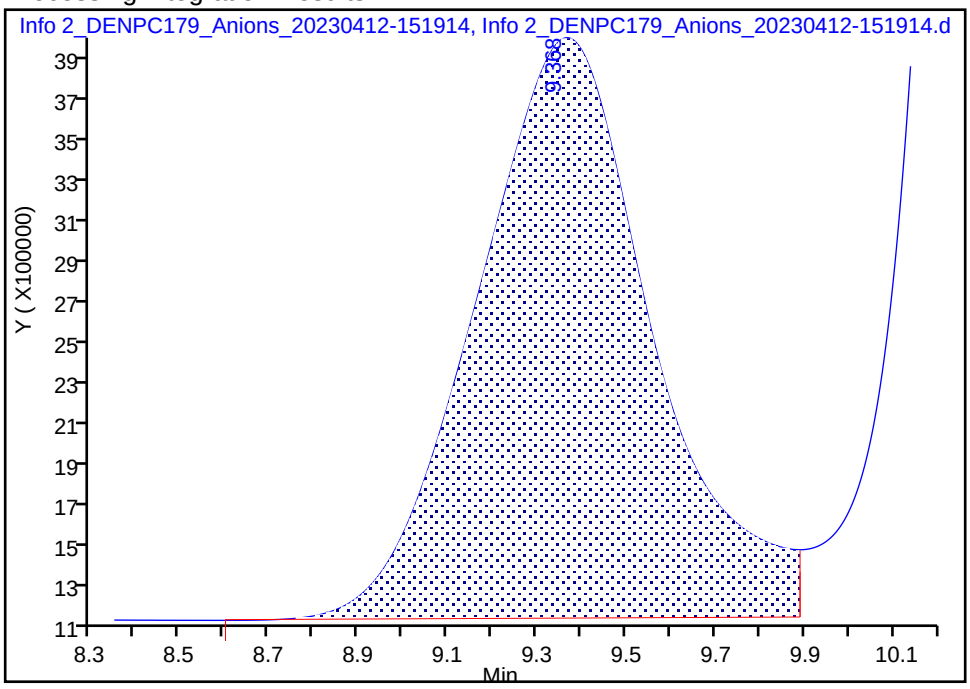
Column: Detector Info 2_091554_1

6 Orthophosphate as P, CAS: STL00599

Signal: 1

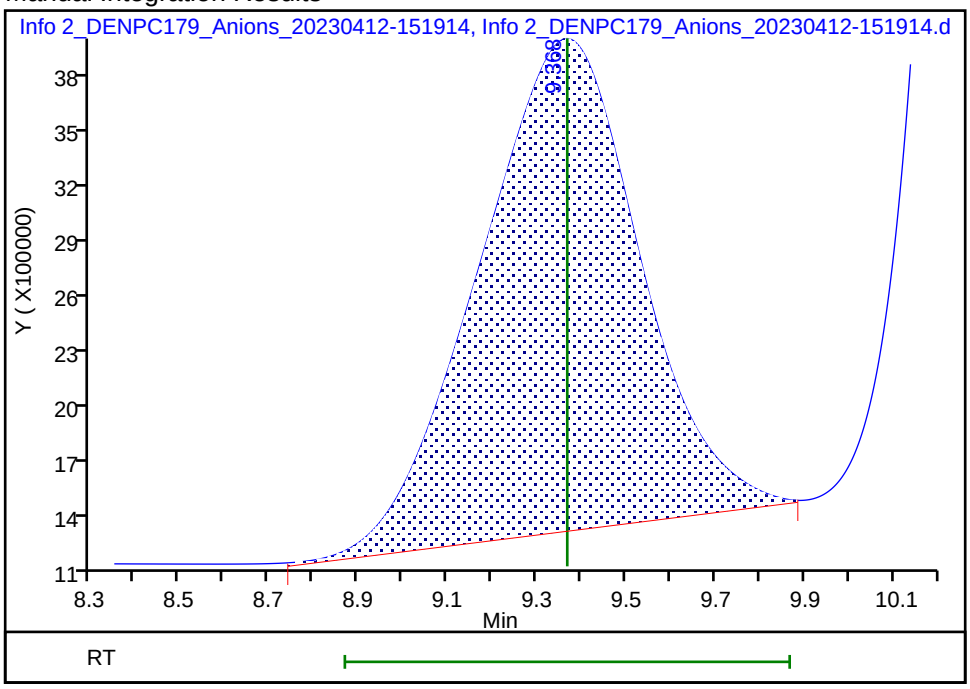
Processing Integration Results

RT: 9.37
Area: 75792721
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 9.37
Area: 65067694
Amount: 2.556261
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:43:19

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153
Lims ID: STD L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 12-Apr-2023 15:19:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0120345-006
Misc. Info.: 280-0120345-006
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 14-Apr-2023 14:04:00 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1620

First Level Reviewer: LVW8 Date: 12-Apr-2023 17:08:50

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.175	3.175	0.000	190381963	NC	NC	Ma
2 Chloride	4.428	4.428	0.000	1914243902	NC	NC	M
3 Nitrite as N	5.103	5.103	0.000	229518060	5.00	4.98	M
4 Bromide	6.292	6.292	0.000	37078318	NC	NC	
5 Nitrate as N	7.057	7.057	0.000	230663663	5.00	5.06	M
6 Orthophosphate as P	9.353	9.353	0.000	112155923	5.00	4.78	M
7 Sulfate	10.592	10.592	0.000	1384314036	NC	NC	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

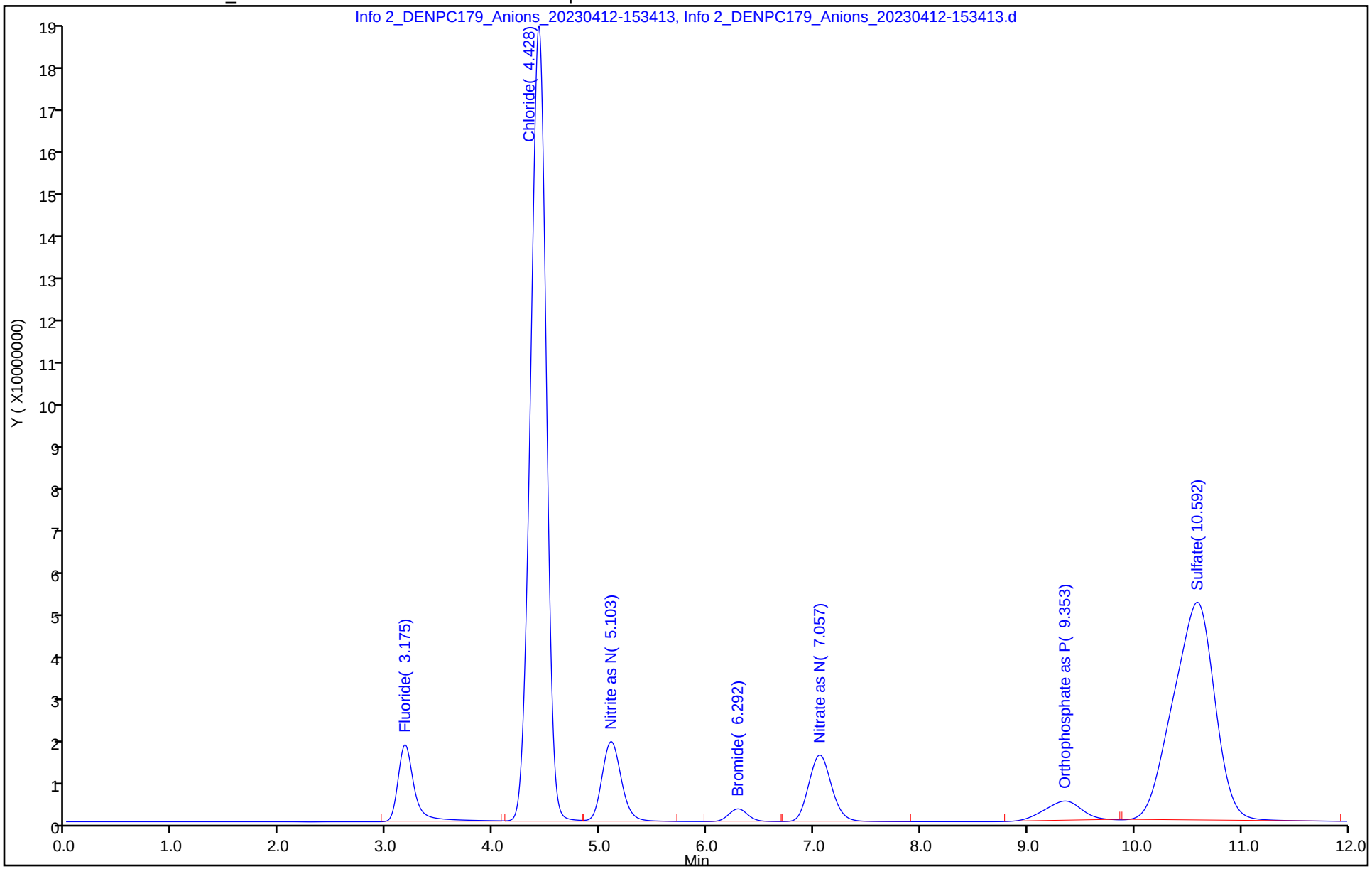
IC CAL cl/so4_00475 Amount Added: 8.00 Units: mL
IC Cal low_00703 Amount Added: 2.00 Units: mL

Report Date: 14-Apr-2023 14:04:00 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153413.d

Injection Date:	12-Apr-2023 15:19:00	Instrument ID:	WC_IonChrom10	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_IC10	Limit Group:	Wet - Anions		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Injection Date: 12-Apr-2023 15:19:00 Instrument ID: WC_IonChrom10

Lims ID: STD L6

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

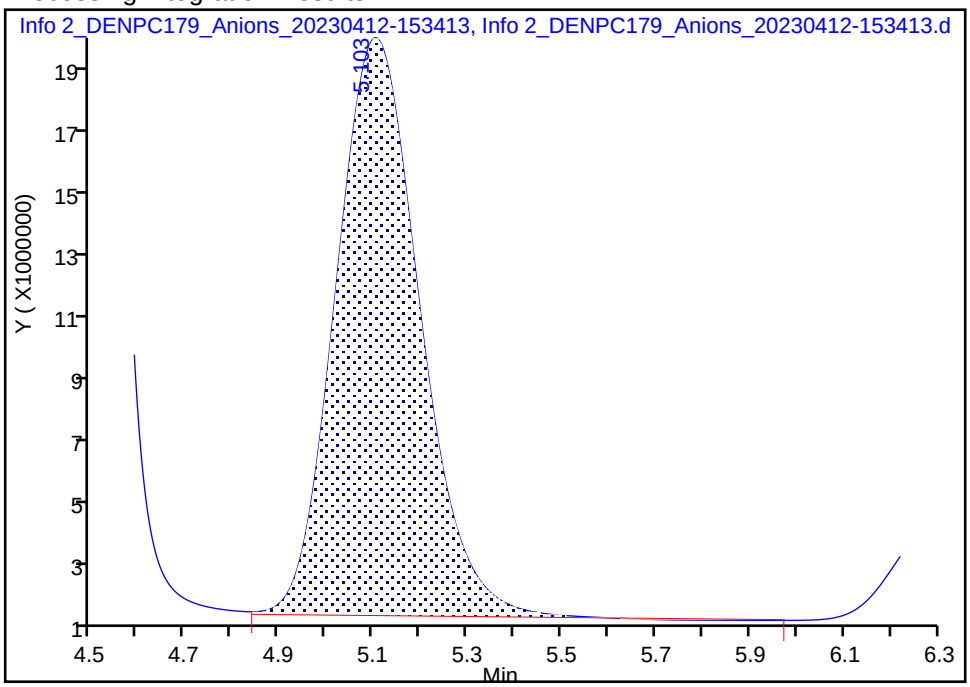
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0

Signal: 1

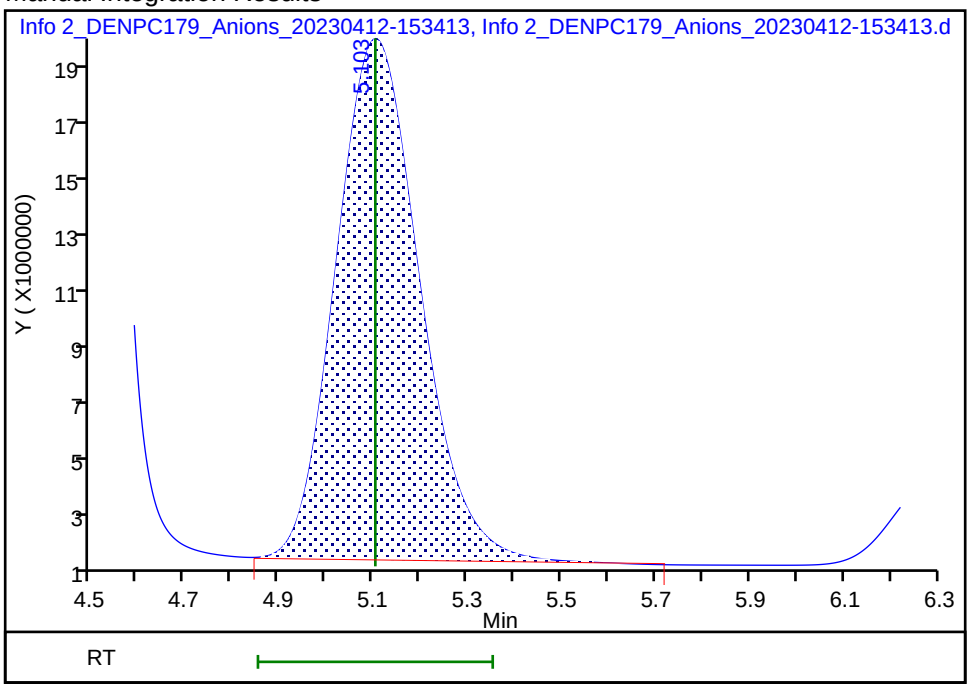
Processing Integration Results

RT: 5.10
Area: 230908651
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 5.10
Area: 229518060
Amount: 4.976333
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:43:38

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Injection Date: 12-Apr-2023 15:19:00 Instrument ID: WC_IonChrom10

Lims ID: STD L6

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

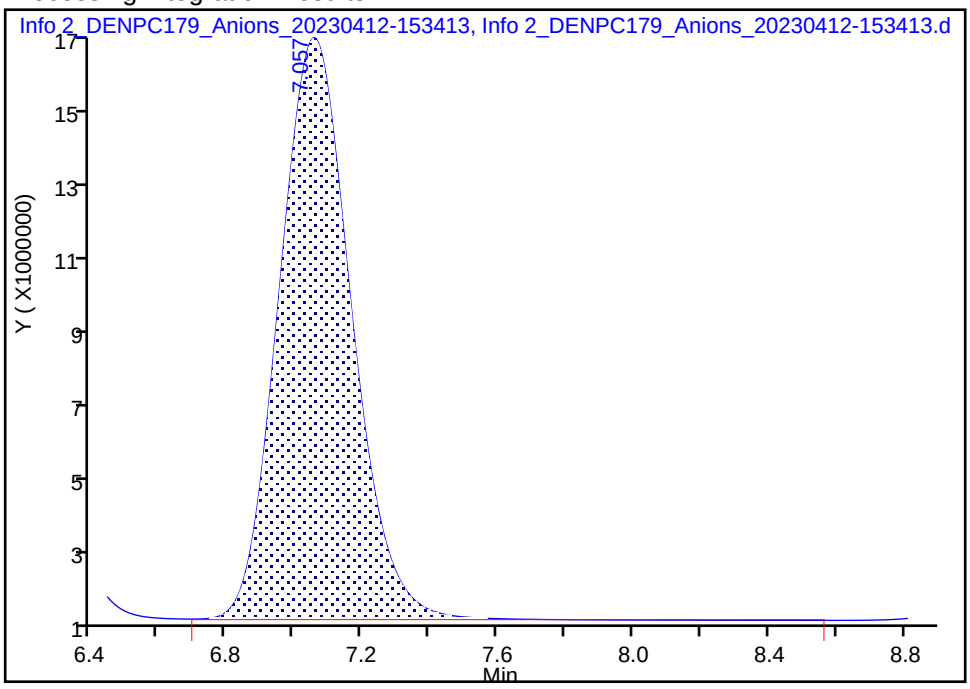
Column: Detector Info 2_091554_1

5 Nitrate as N, CAS: 14797-55-8

Signal: 1

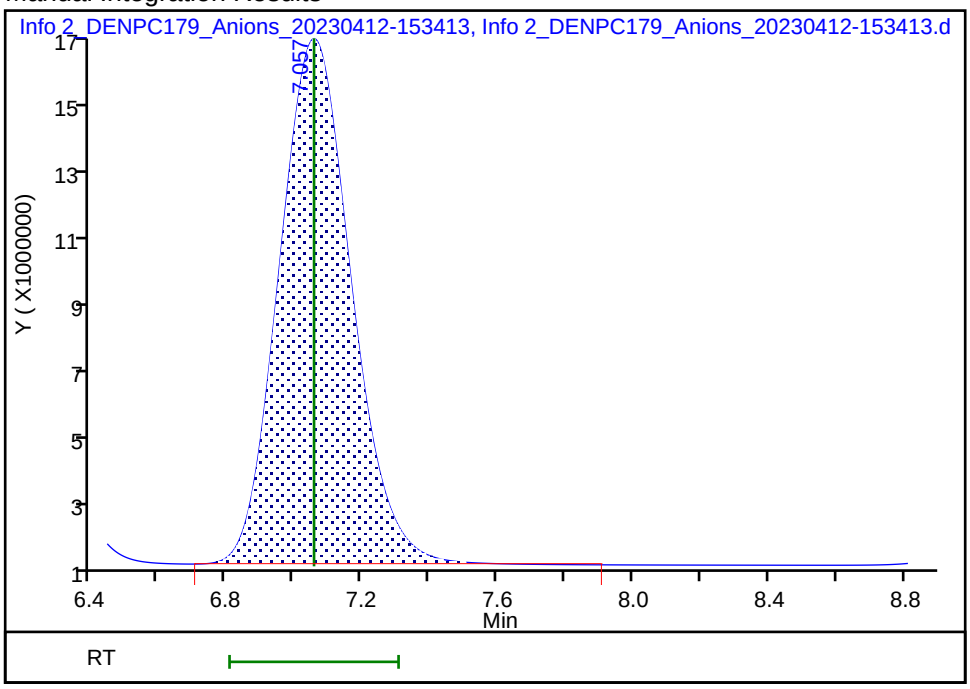
Processing Integration Results

RT: 7.06
Area: 230797057
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 7.06
Area: 230663663
Amount: 5.064518
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:43:47

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

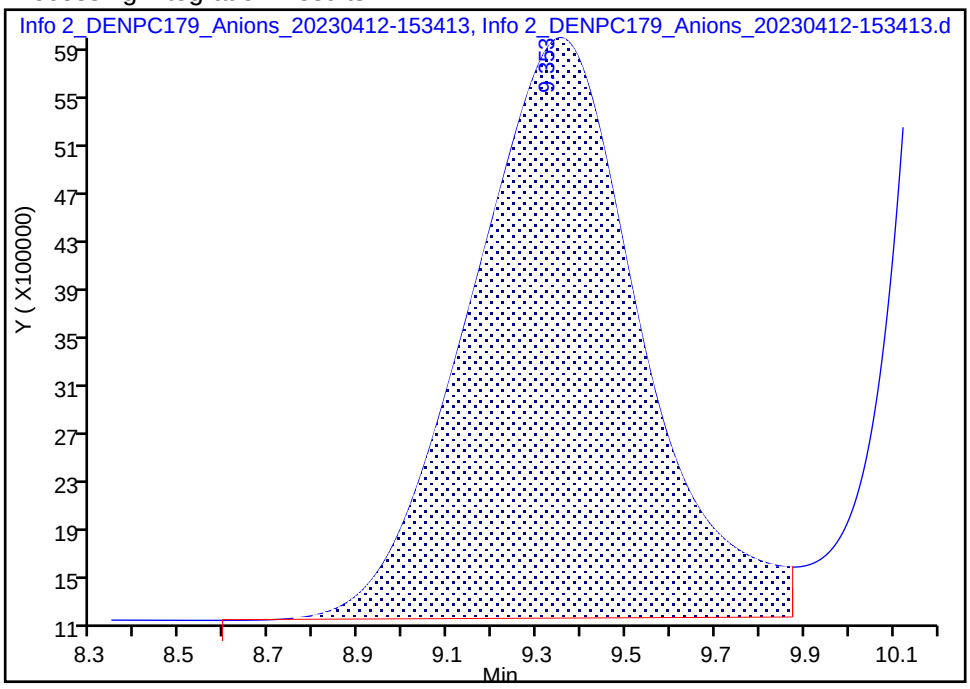
Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153				
Injection Date:	12-Apr-2023 15:19:00	Instrument ID:	WC_IonChrom10		
Lims ID:	STD L6				
Client ID:					
Operator ID:	wetchemd	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	Anions_IC10	Limit Group:	Wet - Anions		
Column:		Detector	Info 2_091554_1		

6 Orthophosphate as P, CAS: STL00599

Signal: 1

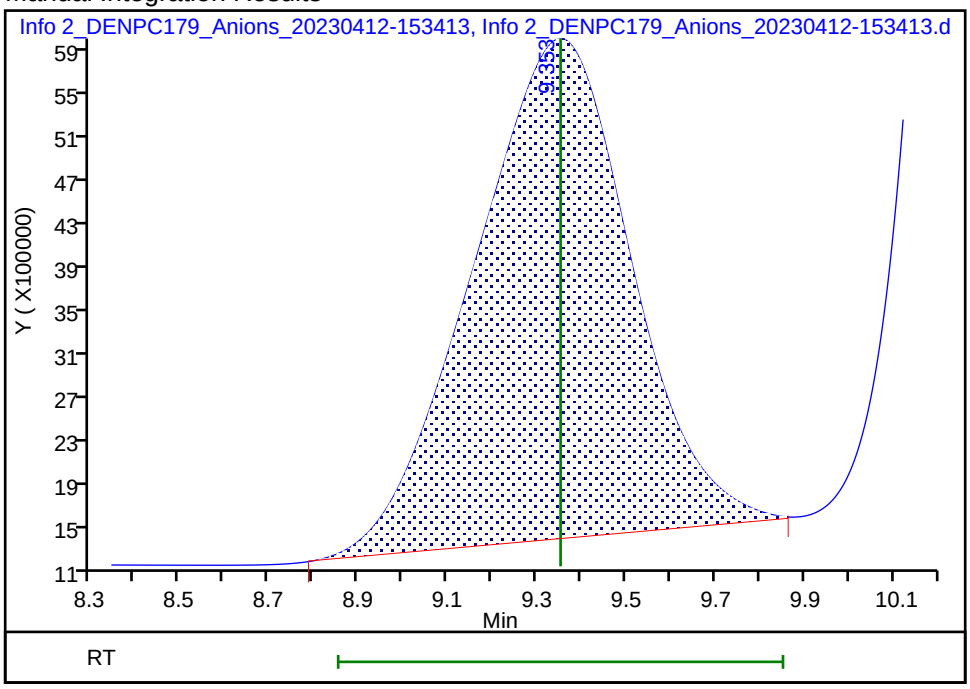
Processing Integration Results

RT: 9.35
Area: 127117672
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 9.35
Area: 112155923
Amount: 4.781864
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:43:56

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

IC Instrument Information

WL: 120345 **Inst ID:** IC16 **Analysis Date:** 04/12/23 **Analyst:** EJS

Rush	Job No.	Samples	Anions	QC Req	HT Exp
☐	174903	7	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	

Dilutions

Job No.	Samples	Anions	Dilution	Reason
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		

Eurofins Environment Testing America
Initial Calibration Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Instrument: WC_IonChrom10 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 13-Apr-2023 18:10:21
No.Compounds:7
Sublist: chrom-Anions_IC10*sub5
Limit Group: Wet - Anions

Detectors

Detector: 1, Info 2_091554_1
Data Type: ic Spec Type: none
Supports Extracted Chromatograms: False
Run Time: 0.000-14.900 No. Points: 7196

Calibration File Names

Level: 1 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14192
Inj Date: 12-Apr-2023 14:04:00 Worklist: 120345 Sample#: 1
Level: 2 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14341
Inj Date: 12-Apr-2023 14:19:00 Worklist: 120345 Sample#: 2
Level: 3 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14491
Inj Date: 12-Apr-2023 14:34:00 Worklist: 120345 Sample#: 3
Level: 4 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15041
Inj Date: 12-Apr-2023 14:49:00 Worklist: 120345 Sample#: 4
Level: 5 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15191
Inj Date: 12-Apr-2023 15:04:00 Worklist: 120345 Sample#: 5
Level: 6 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15341
Inj Date: 12-Apr-2023 15:19:00 Worklist: 120345 Sample#: 6

Start Cal Date: 12-Apr-2023 14:04:00 End Cal Date: 12-Apr-2023 15:19:00

Individual Compound Calibration Parameters

Quant Method: ESTD RF Calibration: Replace
Rule Name: Linear1 Curve: Linear Weighting: Conc
Origin: None Error: raw_COD Error Limit: 1.00
RF %Dif: 0.0 SPCC Limit: 0.0 CCC Limit: 0.0
Dependent Variable: Resp

Number of Compounds: 3

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error
3 Nitrite as N				Signal: 1					
40437065	43230492	44844044	46492699	45903612		-1277342			1.000
0.200000(2)	0.500000(3)	1.0000 (4)	2.5000 (5)	5.0000 (6)			46378611		
M8087413	M21615246	M44844044	M116231748	M229518060					
120345(2)	120345(3)	120345(4)	120345(5)	120345(6)					
5 Nitrate as N				Signal: 1					
42172205	39818610	42066844	45095286	46132733		-1634037			0.999
0.200000(2)	0.500000(3)	1.0000 (4)	2.5000 (5)	5.0000 (6)			45867680		
M8434441	M19909305	M42066844	M112738215	M230663663					
120345(2)	120345(3)	120345(4)	120345(5)	120345(6)					
6 Orthophosphate as P				Signal: 1			R1		
69769055	47259032	34760084	26027078	22431185		10983593			*0.990
0.200000(2)	0.500000(3)	1.0000 (4)	2.5000 (5)	5.0000 (6)			21157507		
M13953811	M23629516	M34760084	M65067694	M112155923					
120345(2)	120345(3)	120345(4)	120345(5)	120345(6)					

ICalib Error Legend
R1, Curve Fit Fail Error Limit Test

Eurofins Environment Testing America
Initial Calibration Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Instrument: WC_IonChrom10 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 13-Apr-2023 18:10:21
No.Compounds:7
Sublist: chrom-Anions_IC10*sub5
Limit Group: Wet - Anions 28D

Detectors

Detector: 1, Info 2_091554_1
Data Type: ic Spec Type: none
Supports Extracted Chromatograms: False
Run Time: 0.000-14.900 No. Points: 7196

Calibration File Names

Level: 1 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14192
Inj Date: 12-Apr-2023 14:04:00 Worklist: 120345 Sample#: 1
Level: 2 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14341
Inj Date: 12-Apr-2023 14:19:00 Worklist: 120345 Sample#: 2
Level: 3 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14491
Inj Date: 12-Apr-2023 14:34:00 Worklist: 120345 Sample#: 3
Level: 4 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15041
Inj Date: 12-Apr-2023 14:49:00 Worklist: 120345 Sample#: 4
Level: 5 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15191
Inj Date: 12-Apr-2023 15:04:00 Worklist: 120345 Sample#: 5
Level: 6 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15341
Inj Date: 12-Apr-2023 15:19:00 Worklist: 120345 Sample#: 6

Start Cal Date: 12-Apr-2023 14:04:00 End Cal Date: 12-Apr-2023 15:19:00

Individual Compound Calibration Parameters

Quant Method: ESTD RF Calibration: Replace
Rule Name: Linear1 Curve: Linear Weighting: Conc
Origin: None Error: raw_COD Error Limit: 1.00
RF %Dif: 0.0 SPCC Limit: 0.0 CCC Limit: 0.0
Dependent Variable: Resp

Number of Compounds: 4

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error

Report Date: 14-Apr-2023 13:55:19 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Preliminary Report

Eurofins Denver

ICV, ICal Verification Report

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15				
Lims ID:	ICV				
Client ID:					
Sample Type:	ICV				
Inject. Date:	12-Apr-2023 15:34:00	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-0120345-007				
Misc. Info.:	280-0120345-007				
Operator ID:	wetchemd	Instrument ID:	WC_IonChrom10		
Sublist:	chrom-Anions_IC7*sub4				
Method:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m				
Limit Group:	Wet - Anions 28D				
Last Update:	14-Apr-2023 13:55:16	Calib Date:	12-Apr-2023 15:19:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15				
Column 1 :			Det: Info 2_091554_1		
Process Host:	CTX1620				
Start Cal Date:	12-Apr-2023 14:04:00				
End Cal Date:	12-Apr-2023 15:19:00				

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
1 Fluoride	2.00	2.34	* 17.1	10.0	117.1	
2 Chloride	80.0	85.7	7.1	10.0	107.1	
4 Bromide	2.00	2.01	0.6	10.0	100.6	
7 Sulfate	80.0	86.9	8.7	10.0	108.7	

Report Date: 14-Apr-2023 13:56:13 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Preliminary Report

Eurofins Denver

ICV, ICal Verification Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 12-Apr-2023 15:34:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0120345-007
Misc. Info.: 280-0120345-007
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC7*sub4

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 14-Apr-2023 13:56:07 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15

Column 1 : Det: Info 2_091554_1
Process Host: CTX1620

Start Cal Date: 12-Apr-2023 14:04:00
End Cal Date: 12-Apr-2023 15:19:00

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
3 Nitrite as N	2.00	2.12	6.0	10.0	106.0	
5 Nitrate as N	2.00	2.15	7.4	10.0	107.4	
6 Orthophosphate as	2.00	2.84	*41.9	10.0	141.9	

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-154
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 12-Apr-2023 15:34:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0120345-007
Misc. Info.: 280-0120345-007
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC7*sub4

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 14-Apr-2023 14:06:59 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1620

First Level Reviewer: XAY4 Date: 13-Apr-2023 12:05:56

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.172	3.172	0.000	88983337	NC	NC	Ma
2 Chloride	4.423	4.423	0.000	1641996046	NC	NC	
3 Nitrite as N	5.112	5.112	0.000	97019728	2.00	2.12	M
4 Bromide	6.305	6.305	0.000	14681577	NC	NC	
5 Nitrate as N	7.087	7.087	0.000	96882220	2.00	2.15	
6 Orthophosphate as P	9.373	9.373	0.000	71034633	2.00	2.84	
7 Sulfate	10.593	10.593	0.000	1198792597	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

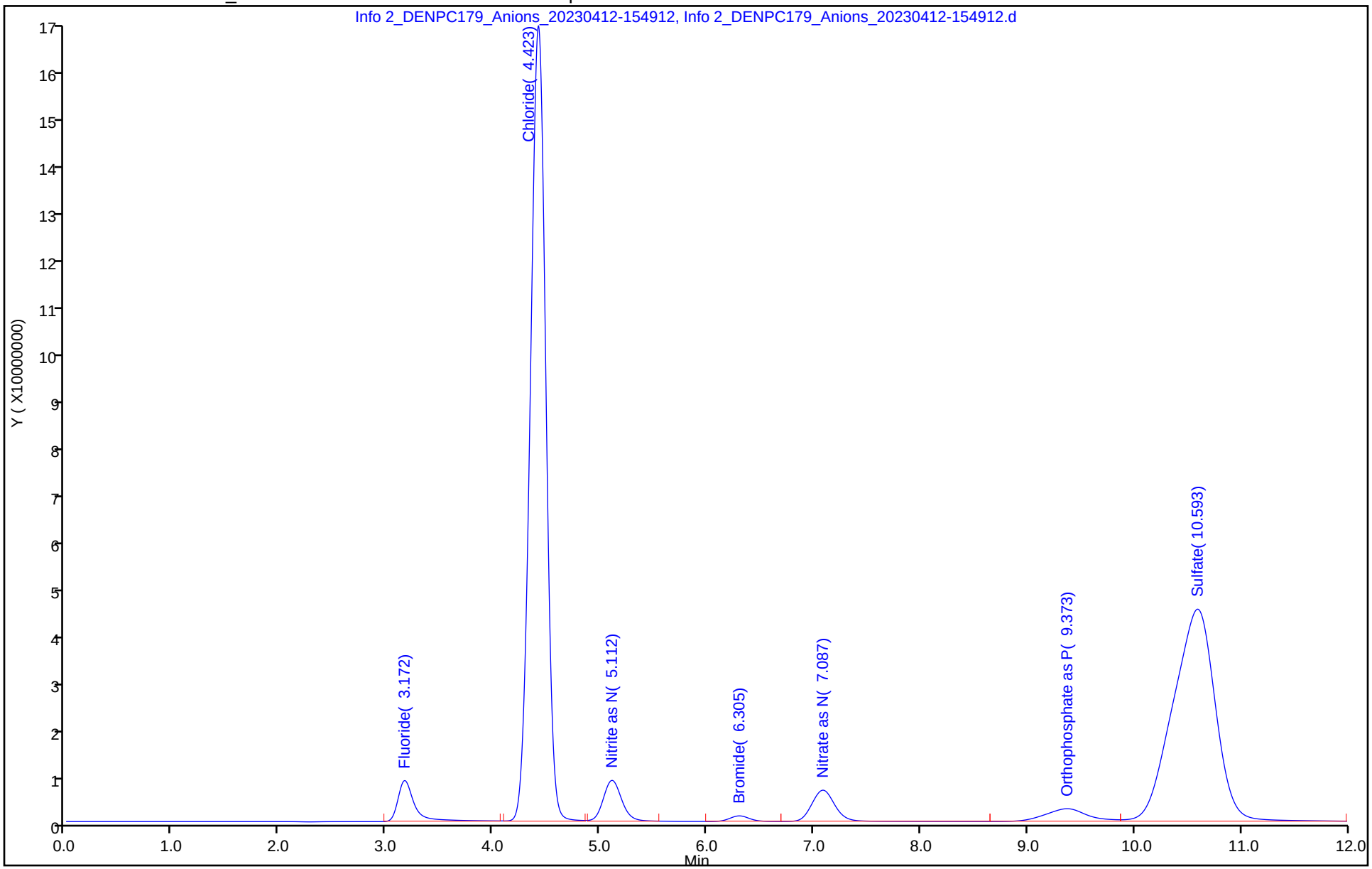
IC SO4 ICV_00024	Amount Added:	0.80	Units: mL
Cl ICV Std_00006	Amount Added:	0.80	Units: mL
IC ICV 5_00403	Amount Added:	0.80	Units: mL

Report Date: 14-Apr-2023 14:06:59 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-154912.d

Injection Date:	12-Apr-2023 15:34:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ICV			Worklist Smp#:	7
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-154

Injection Date: 12-Apr-2023 15:34:00 Instrument ID: WC_IonChrom10

Lims ID: ICV

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

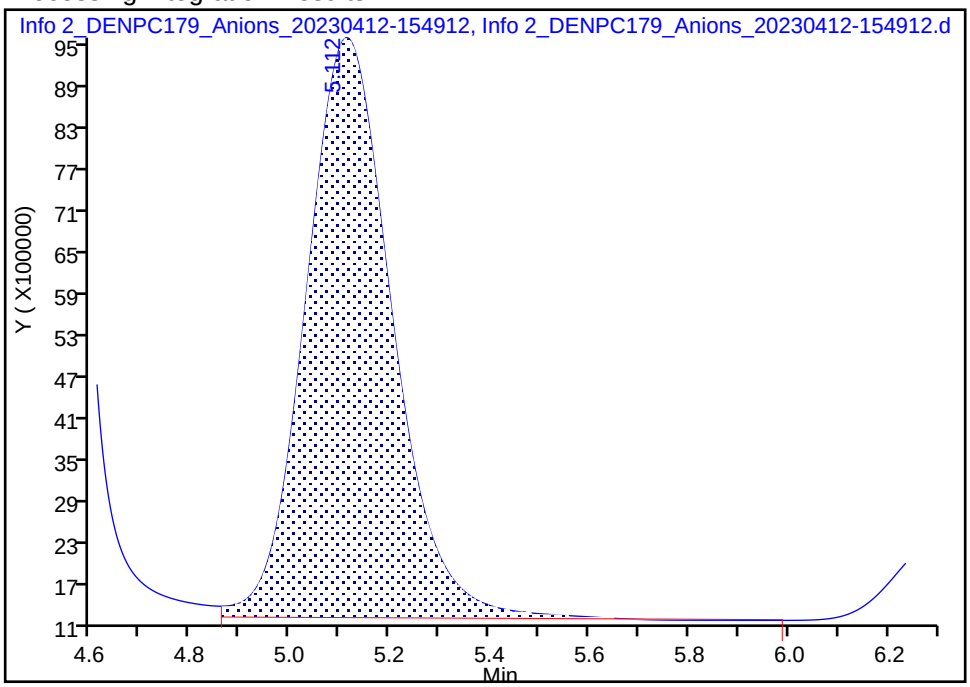
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0

Signal: 1

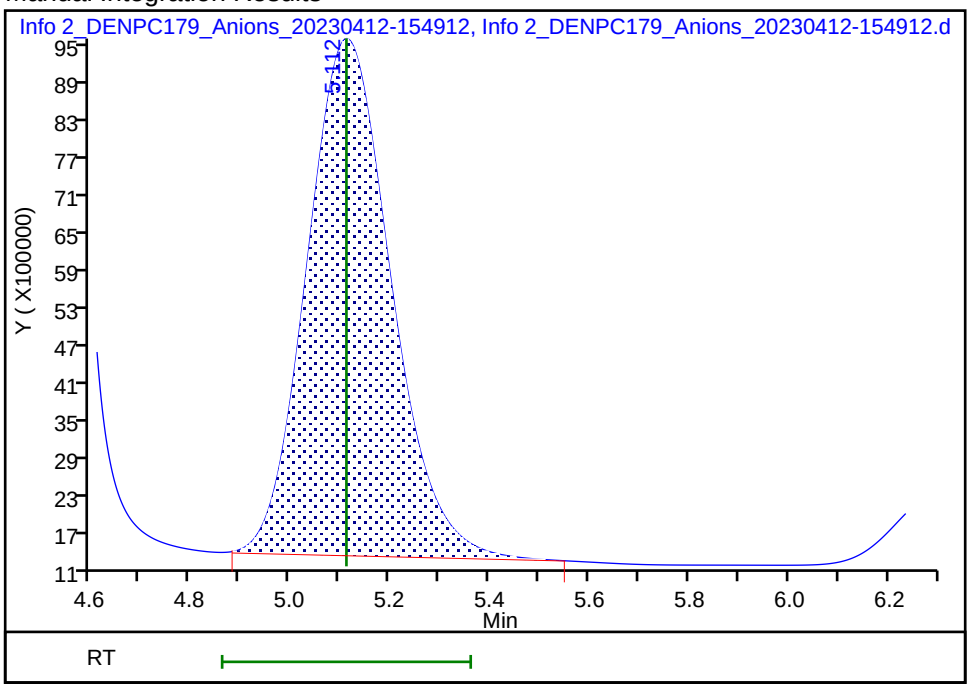
Processing Integration Results

RT: 5.11
Area: 101247304
Amount: 2.210602
Amount Units: ug/ml



Manual Integration Results

RT: 5.11
Area: 97019728
Amount: 2.119448
Amount Units: ug/ml



Reviewer: XAY4, 14-Apr-2023 13:56:04

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-160
Lims ID: ICB
Client ID:
Sample Type: ICB
Inject. Date: 12-Apr-2023 15:49:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0120345-008
Misc. Info.: 280-0120345-008
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 14-Apr-2023 14:07:08 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1620

First Level Reviewer: XAY4 Date: 14-Apr-2023 14:07:17

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.172				ND	U
2 Chloride		4.397				ND	U
3 Nitrite as N		5.103				ND	
4 Bromide		6.293				ND	U
5 Nitrate as N		7.072				ND	
6 Orthophosphate as P	9.417	9.418	-0.001	14030813		0.1440	
7 Sulfate	10.600	10.602	-0.002	368472		NC	M

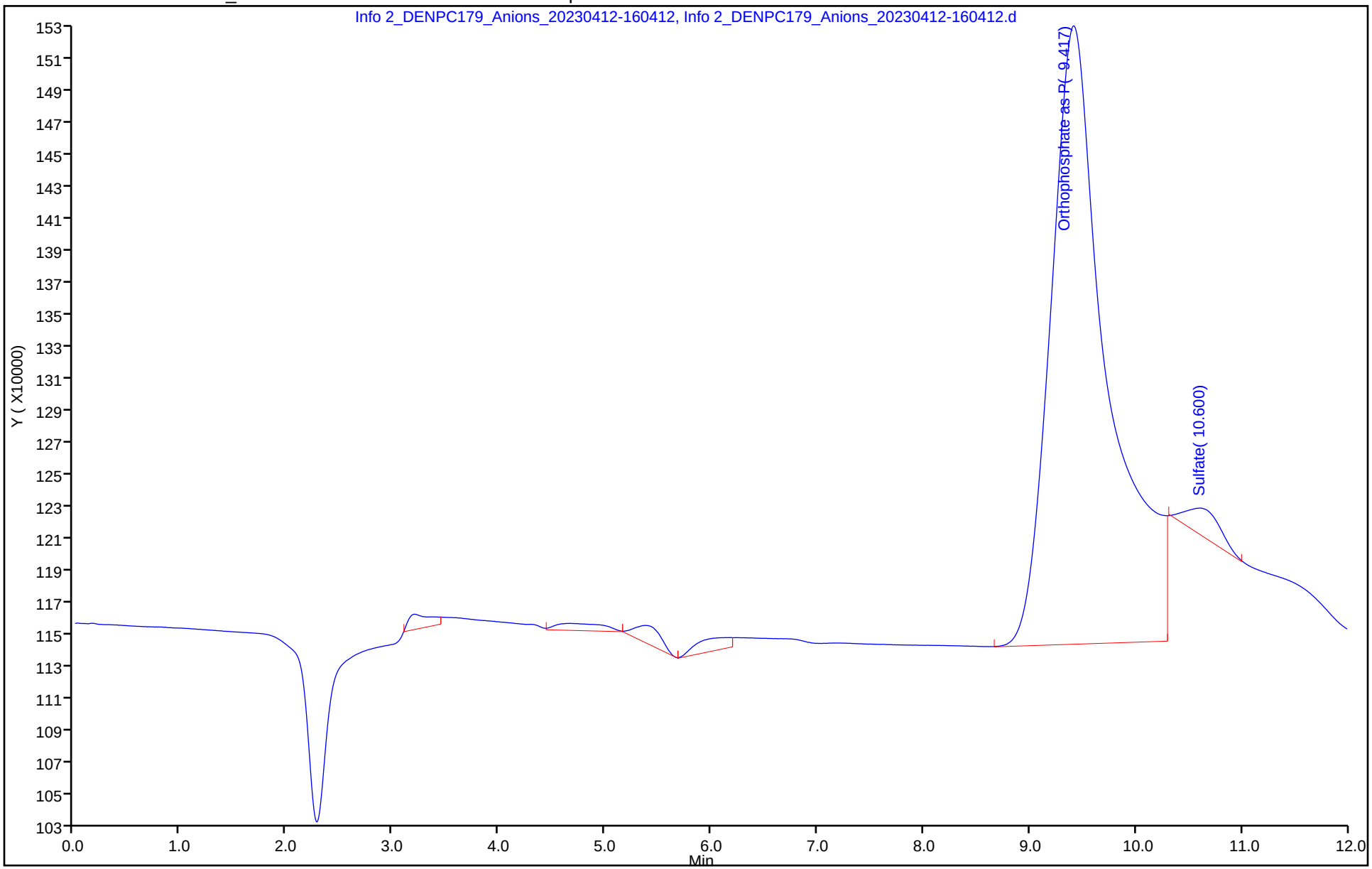
QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 14-Apr-2023 14:07:25 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-160412.d				
Injection Date:	12-Apr-2023 15:49:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ICB			Worklist Smp#:	8
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



IC Instrument Information

WL: 121544 **Inst ID:** IC10 **Analysis Date:** 5/17/23 **Analyst:** MEC

Rush	Job No.	Samples	Anions	QC Req	HT Exp
☐	176587	4	F (Cl) (NO2) Br (NO3) PO4 (SO4)	MS/D	
☐	176591	4	F Cl (NO2) Br (NO3) PO4 (SO4)	MS/D	
☐	176588	7	(F) (Cl) (NO2) Br (NO3) PO4 (SO4)	MS/D	
☐	176589	4	(F) (Cl) (NO2) Br (NO3) PO4 (SO4)	MS/D	
☐	176590	4	(F) (Cl) (NO2) (Br) (NO3) PO4 (SO4)	MS/D	
☐	176601	1	(F) Cl NO2 Br (NO3) PO4 SO4	MS/D	
☐	176555	1	F Cl NO2 Br (NO3) PO4 SO4	MS/D	
☐	176596	1	F (Cl) NO2 Br (NO3) PO4 (SO4)	MS/D	
☐	176593	1	F (Cl) NO2 Br (NO3) PO4 (SO4)	MS/D	
☐	176637	3	F Cl (NO2) Br (NO3) PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	

Dilutions

Job No.	Samples	Anions	Dilution	Reason
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		

Eurofins Environment Testing America
Initial Calibration Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Instrument: WC_IonChrom10 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 13-Apr-2023 18:10:21
No.Compounds:7
Sublist: chrom-Anions_IC10*sub5
Limit Group: Wet - Anions

Detectors

Detector: 1, Info 2_091554_1
Data Type: ic Spec Type: none
Supports Extracted Chromatograms: False
Run Time: 0.000-14.900 No. Points: 7196

Calibration File Names

Level: 1 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14192
Inj Date: 12-Apr-2023 14:04:00 Worklist: 120345 Sample#: 1
Level: 2 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14341
Inj Date: 12-Apr-2023 14:19:00 Worklist: 120345 Sample#: 2
Level: 3 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14491
Inj Date: 12-Apr-2023 14:34:00 Worklist: 120345 Sample#: 3
Level: 4 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15041
Inj Date: 12-Apr-2023 14:49:00 Worklist: 120345 Sample#: 4
Level: 5 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15191
Inj Date: 12-Apr-2023 15:04:00 Worklist: 120345 Sample#: 5
Level: 6 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15341
Inj Date: 12-Apr-2023 15:19:00 Worklist: 120345 Sample#: 6

Start Cal Date: 12-Apr-2023 14:04:00 End Cal Date: 12-Apr-2023 15:19:00

Individual Compound Calibration Parameters

Quant Method: ESTD RF Calibration: Replace
Rule Name: Linear1 Curve: Linear Weighting: Conc
Origin: None Error: raw_COD Error Limit: 1.00
RF %Dif: 0.0 SPCC Limit: 0.0 CCC Limit: 0.0
Dependent Variable: Resp

Number of Compounds: 3

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error
3 Nitrite as N				Signal: 1					
40437065	43230492	44844044	46492699	45903612		-1277342			1.000
0.200000(2)	0.500000(3)	1.0000 (4)	2.5000 (5)	5.0000 (6)			46378611		
M8087413	M21615246	M44844044	M116231748	M229518060					
120345(2)	120345(3)	120345(4)	120345(5)	120345(6)					
5 Nitrate as N				Signal: 1					
42172205	39818610	42066844	45095286	46132733		-1634037			0.999
0.200000(2)	0.500000(3)	1.0000 (4)	2.5000 (5)	5.0000 (6)			45867680		
M8434441	M19909305	M42066844	M112738215	M230663663					
120345(2)	120345(3)	120345(4)	120345(5)	120345(6)					
6 Orthophosphate as P				Signal: 1			R1		
69769055	47259032	34760084	26027078	22431185		10983593			*0.990
0.200000(2)	0.500000(3)	1.0000 (4)	2.5000 (5)	5.0000 (6)			21157507		
M13953811	M23629516	M34760084	M65067694	M112155923					
120345(2)	120345(3)	120345(4)	120345(5)	120345(6)					

ICalib Error Legend
R1, Curve Fit Fail Error Limit Test

Eurofins Environment Testing America
Initial Calibration Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Instrument: WC_IonChrom10 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 13-Apr-2023 18:10:21
No.Compounds:7
Sublist: chrom-Anions_IC10*sub5
Limit Group: Wet - Anions 28D

Detectors

Detector: 1, Info 2_091554_1
Data Type: ic Spec Type: none
Supports Extracted Chromatograms: False
Run Time: 0.000-14.900 No. Points: 7196

Calibration File Names

Level: 1 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14192
Inj Date: 12-Apr-2023 14:04:00 Worklist: 120345 Sample#: 1
Level: 2 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14341
Inj Date: 12-Apr-2023 14:19:00 Worklist: 120345 Sample#: 2
Level: 3 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14491
Inj Date: 12-Apr-2023 14:34:00 Worklist: 120345 Sample#: 3
Level: 4 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15041
Inj Date: 12-Apr-2023 14:49:00 Worklist: 120345 Sample#: 4
Level: 5 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15191
Inj Date: 12-Apr-2023 15:04:00 Worklist: 120345 Sample#: 5
Level: 6 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15341
Inj Date: 12-Apr-2023 15:19:00 Worklist: 120345 Sample#: 6

Start Cal Date: 12-Apr-2023 14:04:00 End Cal Date: 12-Apr-2023 15:19:00

Individual Compound Calibration Parameters

Quant Method: ESTD RF Calibration: Replace
Rule Name: Linear1 Curve: Linear Weighting: Conc
Origin: None Error: raw_COD Error Limit: 1.00
RF %Dif: 0.0 SPCC Limit: 0.0 CCC Limit: 0.0
Dependent Variable: Resp

Number of Compounds: 4

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error

Report Date: 14-Apr-2023 13:55:19 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Preliminary Report

Eurofins Denver

ICV, ICal Verification Report

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15				
Lims ID:	ICV				
Client ID:					
Sample Type:	ICV				
Inject. Date:	12-Apr-2023 15:34:00	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-0120345-007				
Misc. Info.:	280-0120345-007				
Operator ID:	wetchemd	Instrument ID:	WC_IonChrom10		
Sublist:	chrom-Anions_IC7*sub4				
Method:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m				
Limit Group:	Wet - Anions 28D				
Last Update:	14-Apr-2023 13:55:16	Calib Date:	12-Apr-2023 15:19:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15				
Column 1 :			Det: Info 2_091554_1		
Process Host:	CTX1620				
Start Cal Date:	12-Apr-2023 14:04:00				
End Cal Date:	12-Apr-2023 15:19:00				

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
1 Fluoride	2.00	2.34	* 17.1	10.0	117.1	
2 Chloride	80.0	85.7	7.1	10.0	107.1	
4 Bromide	2.00	2.01	0.6	10.0	100.6	
7 Sulfate	80.0	86.9	8.7	10.0	108.7	

Report Date: 14-Apr-2023 13:56:13 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Preliminary Report

Eurofins Denver

ICV, ICal Verification Report

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15				
Lims ID:	ICV				
Client ID:					
Sample Type:	ICV				
Inject. Date:	12-Apr-2023 15:34:00	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-0120345-007				
Misc. Info.:	280-0120345-007				
Operator ID:	wetchemd	Instrument ID:	WC_IonChrom10		
Sublist:	chrom-Anions_IC7*sub4				
Method:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m				
Limit Group:	Wet - Anions				
Last Update:	14-Apr-2023 13:56:07	Calib Date:	12-Apr-2023 15:19:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15				
Column 1 :			Det: Info 2_091554_1		
Process Host:	CTX1620				
Start Cal Date:	12-Apr-2023 14:04:00				
End Cal Date:	12-Apr-2023 15:19:00				

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
3 Nitrite as N	2.00	2.12	6.0	10.0	106.0	
5 Nitrate as N	2.00	2.15	7.4	10.0	107.4	
6 Orthophosphate as	2.00	2.84	*41.9	10.0	141.9	

Report Date: 18-May-2023 10:40:07 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-120
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 17-May-2023 11:46:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-001
Misc. Info.: 280-0121544-001
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:07 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 17-May-2023 12:39:53

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			NC	ND	
2 Chloride	4.308	4.308	0.000	922651946	NC	NC	M
3 Nitrite as N	4.997	4.997	0.000	106225117	2.50	2.32	M
4 Bromide	6.148	6.148	0.000	18850052	NC	NC	
5 Nitrate as N	6.905	6.905	0.000	109376280	2.50	2.42	M
6 Orthophosphate as P	9.023	9.023	0.000	59403999	2.50	2.29	
7 Sulfate	10.203	10.203	0.000	653851693	NC	NC	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

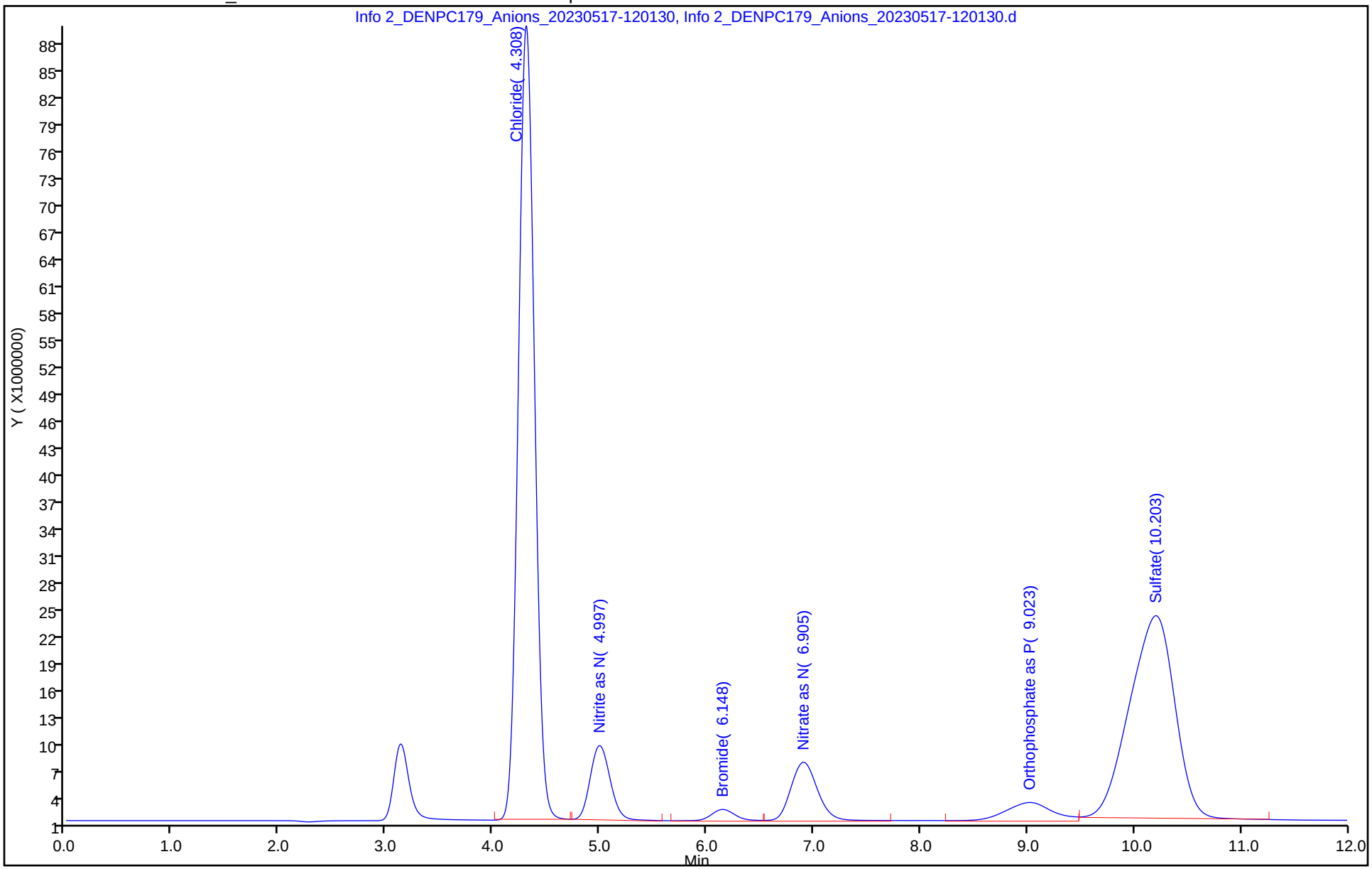
Reagents:

IC LCS_01954 Amount Added: 10.00 Units: mL

Report Date: 18-May-2023 10:40:07 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-120130.d				
Injection Date:	17-May-2023 11:46:00	Instrument ID:	WC_IonChrom10	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_IC10	Limit Group:	Wet - Anions		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-120

Injection Date: 17-May-2023 11:46:00 Instrument ID: WC_IonChrom10

Lims ID: ccv

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 1

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

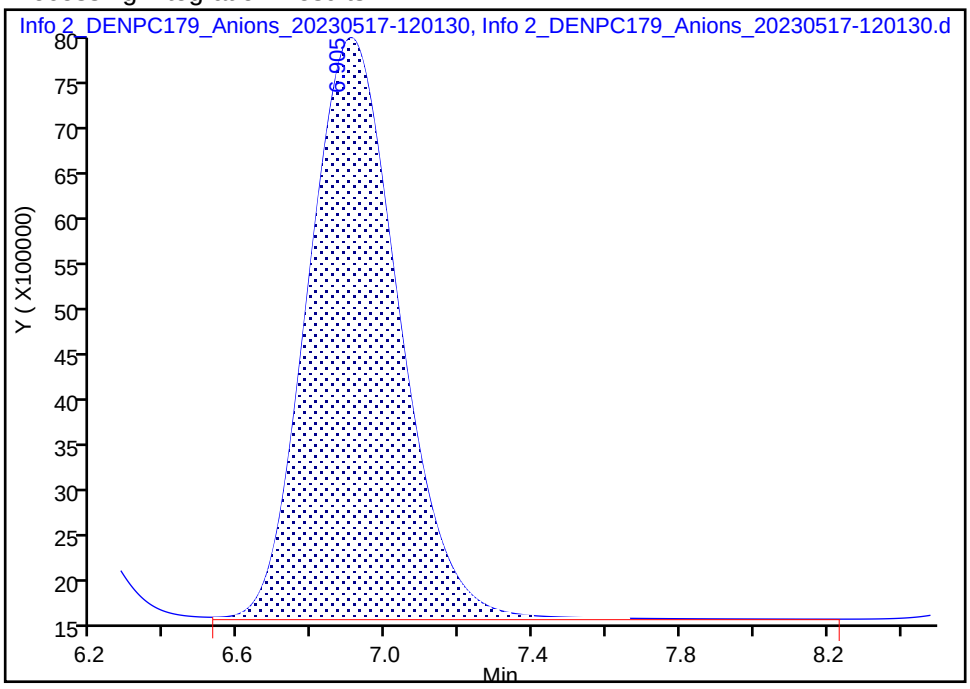
Column: Detector Info 2_091554_1

5 Nitrate as N, CAS: 14797-55-8

Signal: 1

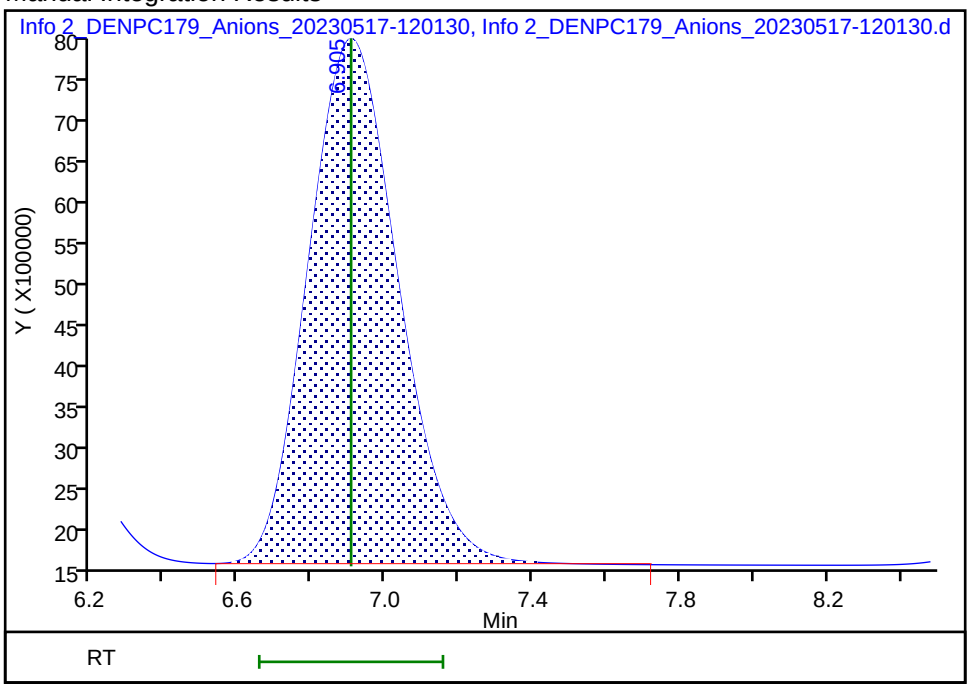
Processing Integration Results

RT: 6.91
Area: 111411586
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 6.91
Area: 109376280
Amount: 2.420230
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:15:22 -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\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-120

Injection Date: 17-May-2023 11:46:00 Instrument ID: WC_IonChrom10

Lims ID: ccv

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 1

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

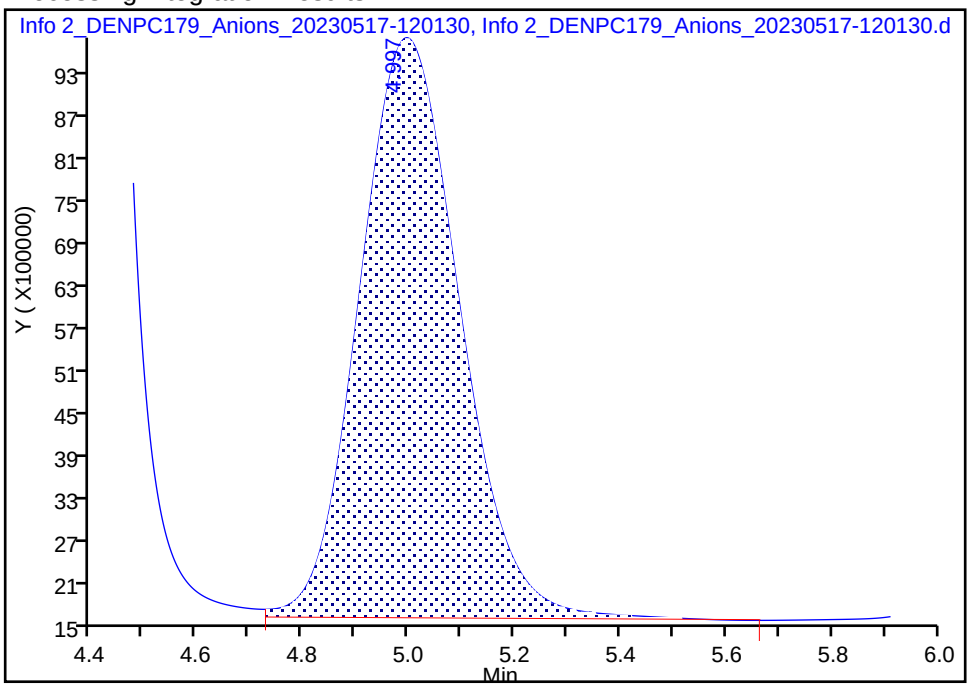
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0

Signal: 1

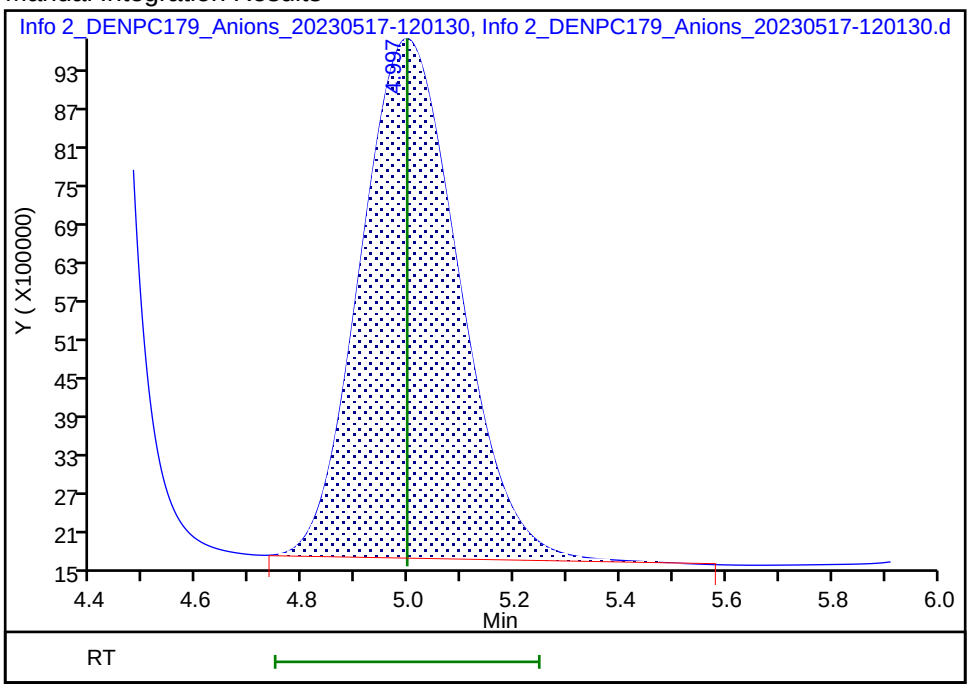
Processing Integration Results

RT: 5.00
Area: 109383961
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 5.00
Area: 106225117
Amount: 2.317932
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:15:10 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-121
Lims ID: ccb
Client ID:
Sample Type: CCB
Inject. Date: 17-May-2023 12:01:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-002
Misc. Info.: 280-0121544-002
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:08 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:15:54

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143				ND	
2 Chloride		4.308				ND	
3 Nitrite as N		4.997				ND	U
4 Bromide		6.148				ND	U
5 Nitrate as N		6.905				ND	
6 Orthophosphate as P	9.103	9.103	0.000	8756139		-0.1053	
7 Sulfate	10.277	10.277	0.000	1416826		NC	M

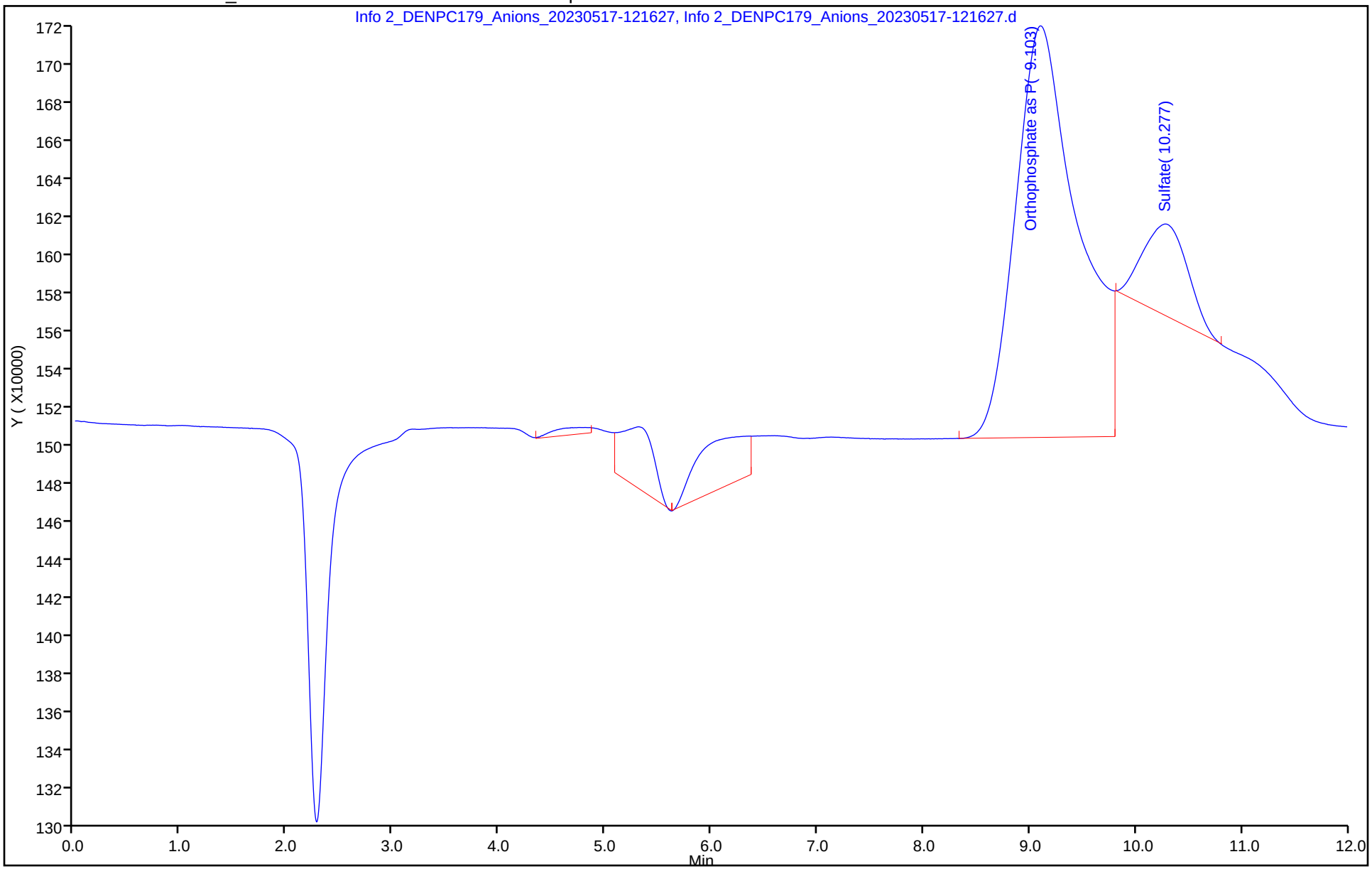
QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 18-May-2023 10:40:08 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-121627.d				
Injection Date:	17-May-2023 12:01:00	Instrument ID:	WC_IonChrom10	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_IC10	Limit Group:	Wet - Anions		



User Disabled Compound Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-121

Injection Date: 17-May-2023 12:01:00 Instrument ID: WC_IonChrom10

Lims ID: ccb

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 2

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

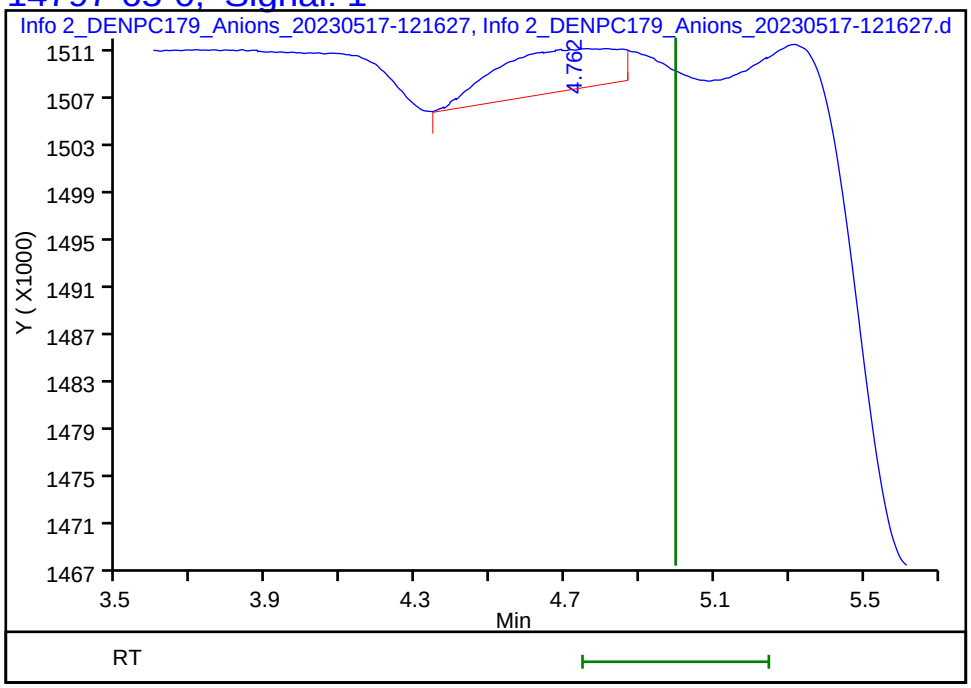
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0, Signal: 1

RT: 4.76

Response: 80669

Amount: 0



Reviewer: LVW8, 18-May-2023 10:15:54

Audit Action: Manually Integrated Audit Reason:

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-123
Lims ID: mrl
Client ID:
Sample Type: MRL
Inject. Date: 17-May-2023 12:16:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-003
Misc. Info.: 280-0121544-003
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:09 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:16:21

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	ND	
2 Chloride	4.297	4.297	0.000	44242405	NC	NC	M
3 Nitrite as N	5.000	5.000	0.000	9421134	0.2500	0.2307	M
4 Bromide	6.170	6.170	0.000	3245653	NC	NC	
5 Nitrate as N	6.953	6.953	0.000	9173050	0.2500	0.2356	M
6 Orthophosphate as P	9.083	9.083	0.000	14332353	0.2500	0.1583	
7 Sulfate	10.232	10.232	0.000	33892533	NC	NC	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

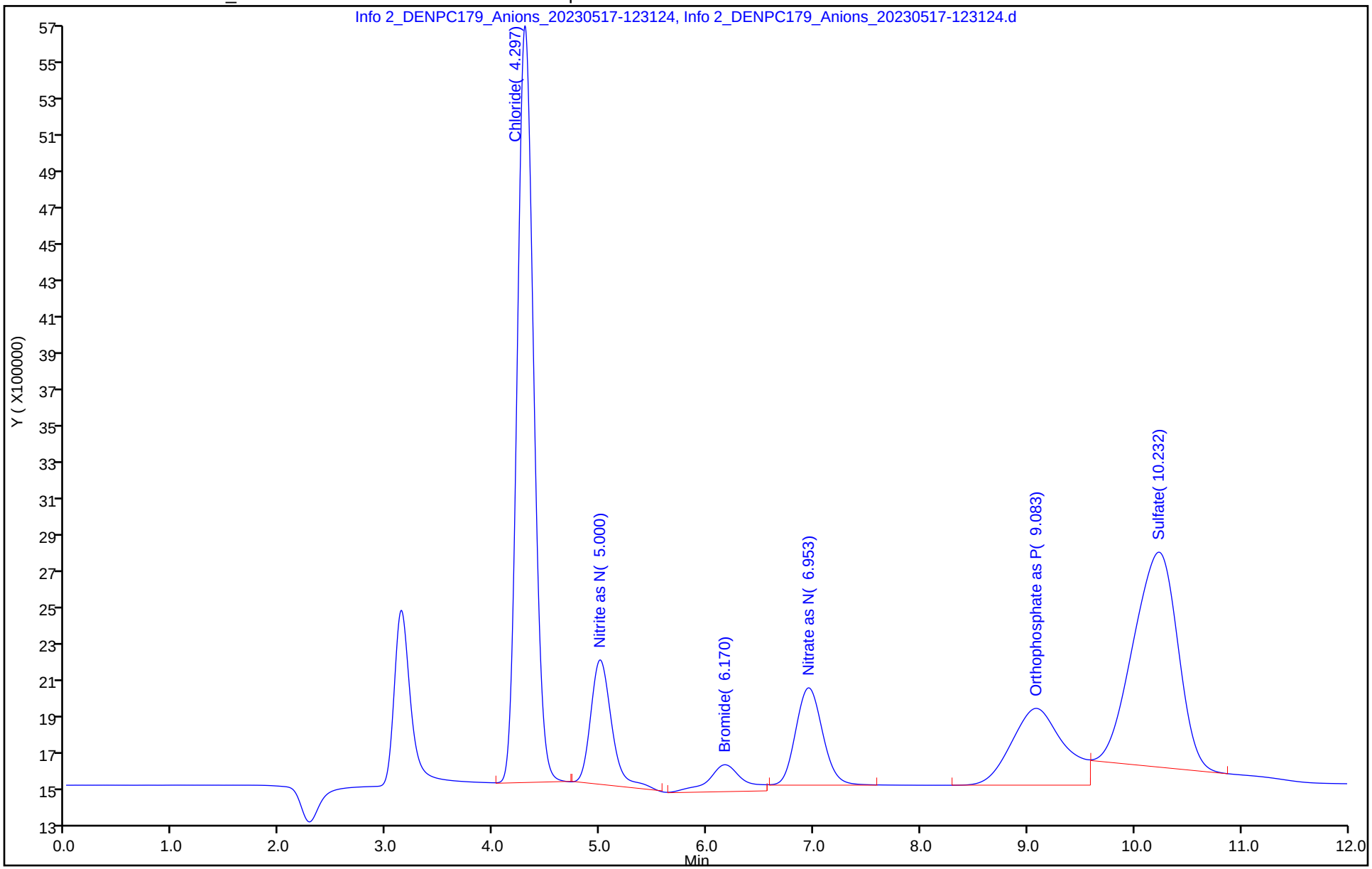
Reagents:

IC CAL cl/so4_00480 Amount Added: 0.20 Units: mL
IC Cal low_00709 Amount Added: 0.10 Units: mL

Report Date: 18-May-2023 10:40:09 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-123124.d				
Injection Date:	17-May-2023 12:16:00	Instrument ID:	WC_IonChrom10	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_IC10	Limit Group:	Wet - Anions		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-123

Injection Date: 17-May-2023 12:16:00 Instrument ID: WC_IonChrom10

Lims ID: mrl

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

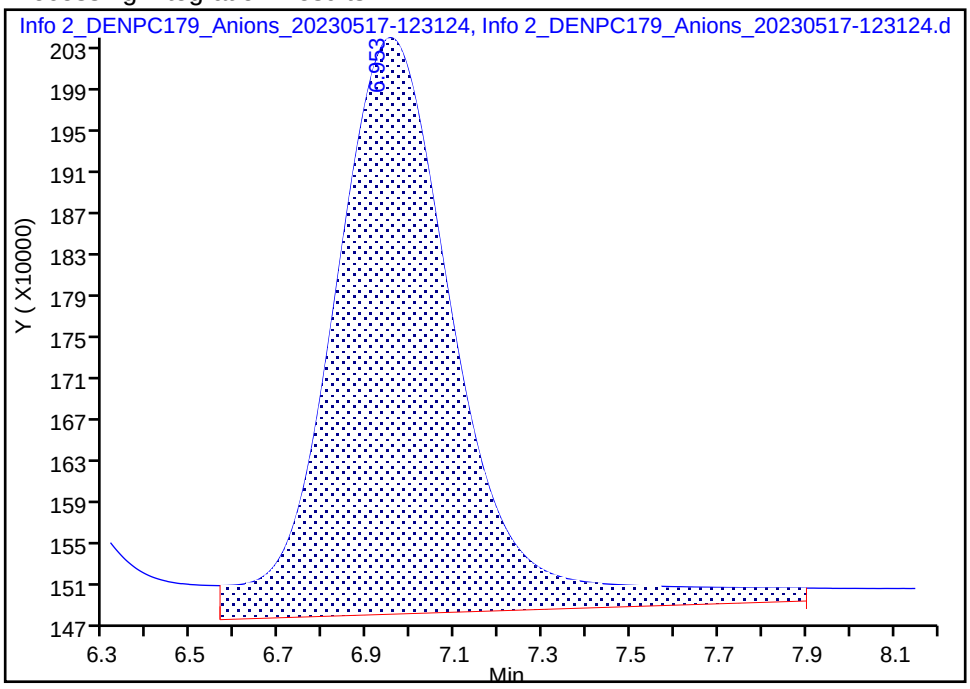
Column: Detector Info 2_091554_1

5 Nitrate as N, CAS: 14797-55-8

Signal: 1

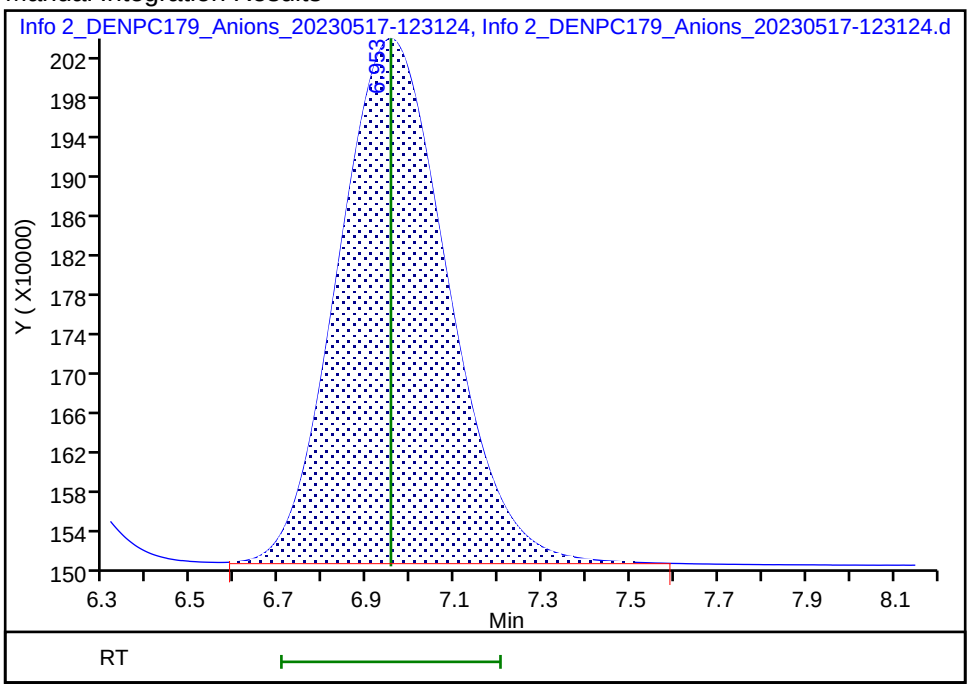
Processing Integration Results

RT: 6.95
Area: 11014655
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 6.95
Area: 9173050
Amount: 0.235614
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:16:11 -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\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-123

Injection Date: 17-May-2023 12:16:00 Instrument ID: WC_IonChrom10

Lims ID: mrl

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

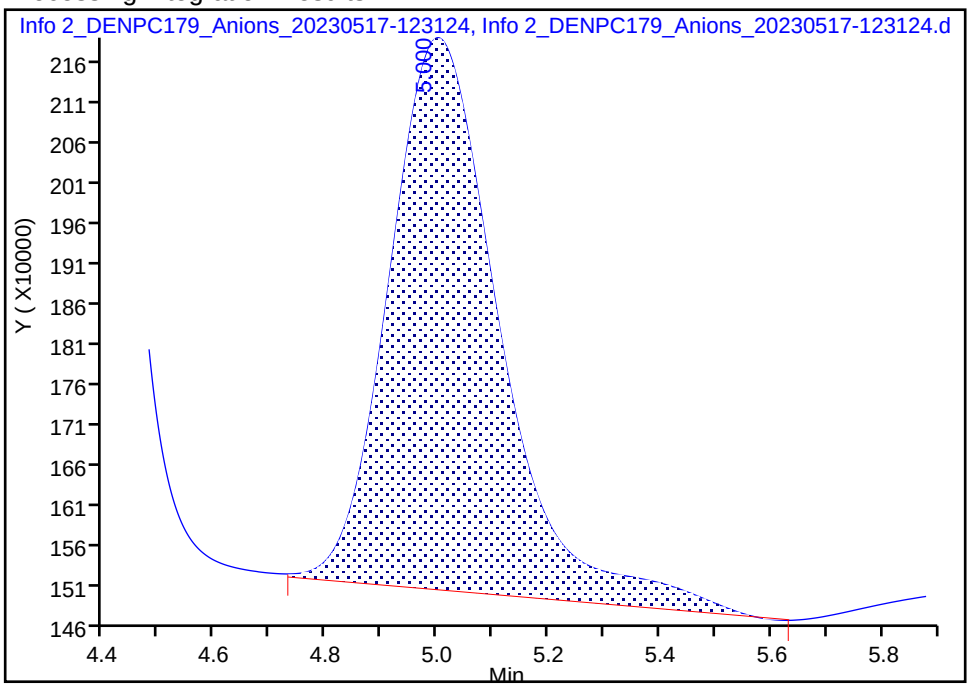
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0

Signal: 1

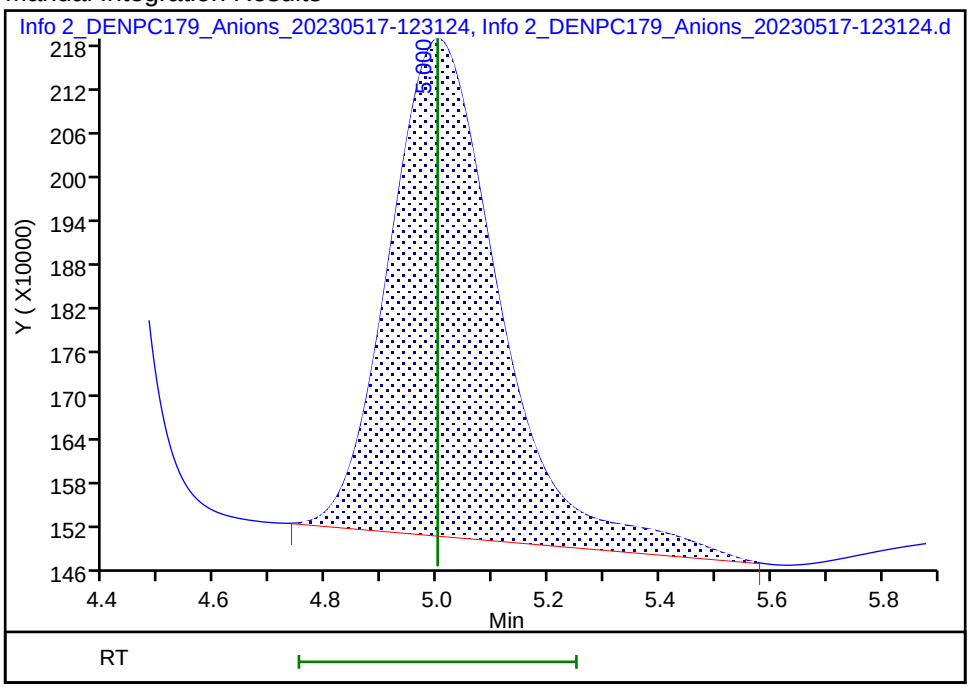
Processing Integration Results

RT: 5.00
Area: 9528458
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 5.00
Area: 9421134
Amount: 0.230677
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:16:05 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-124
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 17-May-2023 12:31:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-004
Misc. Info.: 280-0121544-004
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:09 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 17-May-2023 13:33:48

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	ND	
2 Chloride	4.310	4.310	0.000	928177141	NC	NC	M
3 Nitrite as N	4.995	4.995	0.000	105722604	2.50	2.31	M
4 Bromide	6.153	6.153	0.000	18989153	NC	NC	
5 Nitrate as N	6.907	6.907	0.000	108998670	2.50	2.41	M
6 Orthophosphate as P	9.038	9.038	0.000	67385268	2.50	2.67	
7 Sulfate	10.217	10.217	0.000	664318237	NC	NC	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

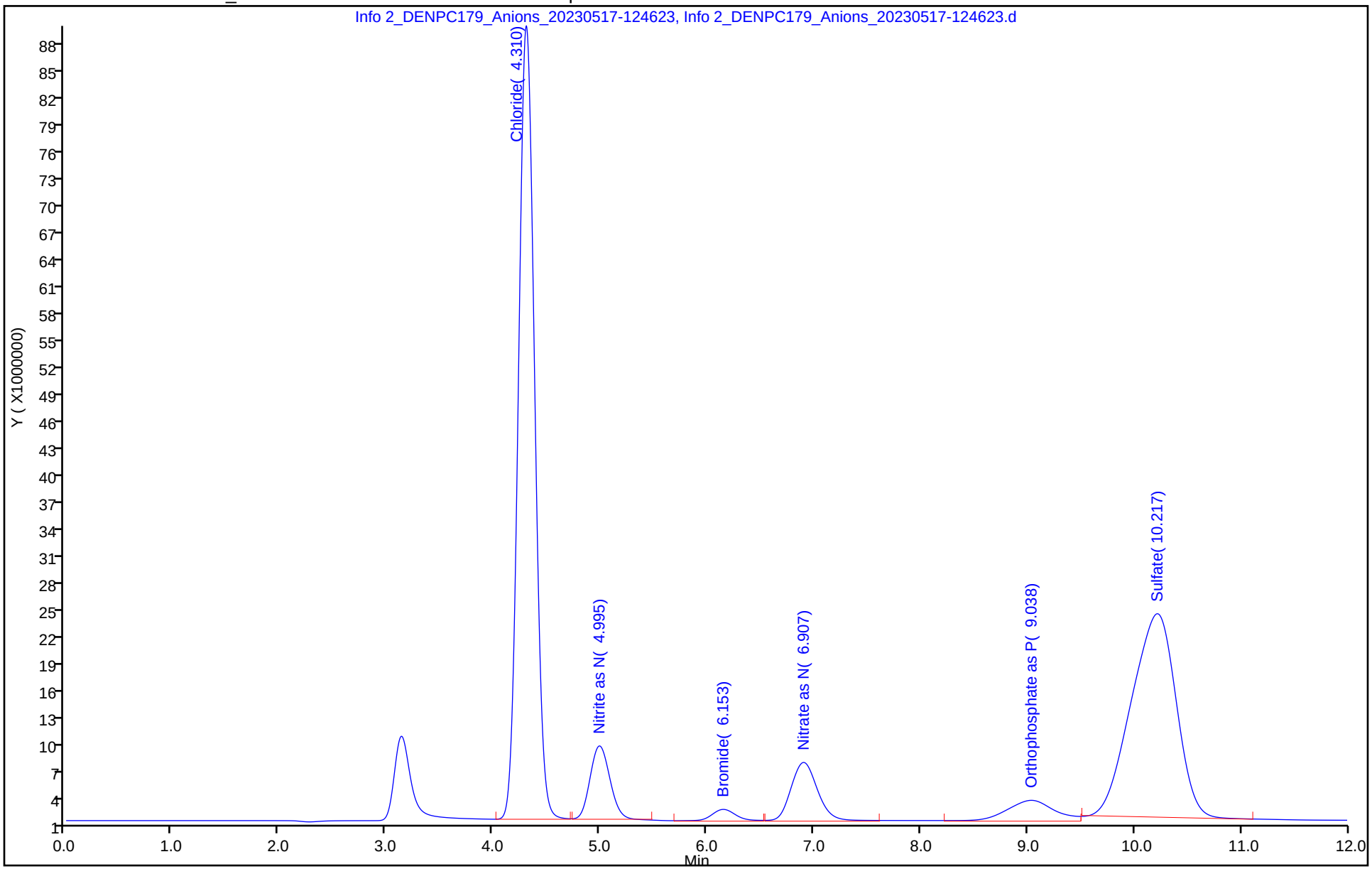
Reagents:

IC LCS_01954 Amount Added: 10.00 Units: mL

Report Date: 18-May-2023 10:40:10 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-124623.d				
Injection Date:	17-May-2023 12:31:00	Instrument ID:	WC_IonChrom10	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_IC10	Limit Group:	Wet - Anions		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-124

Injection Date: 17-May-2023 12:31:00 Instrument ID: WC_IonChrom10

Lims ID: lcs

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

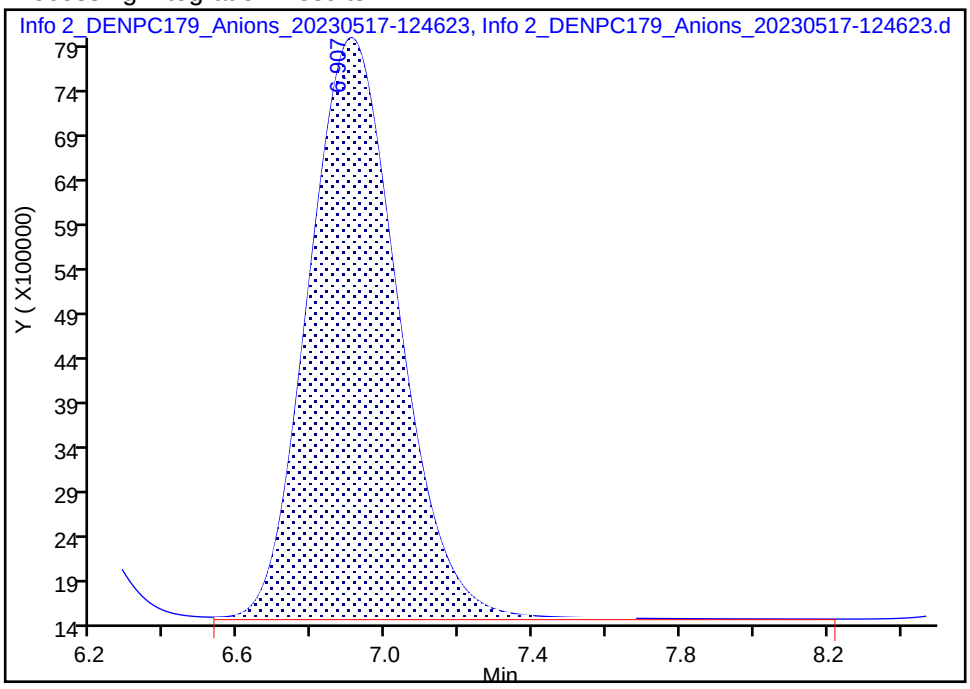
Column: Detector Info 2_091554_1

5 Nitrate as N, CAS: 14797-55-8

Signal: 1

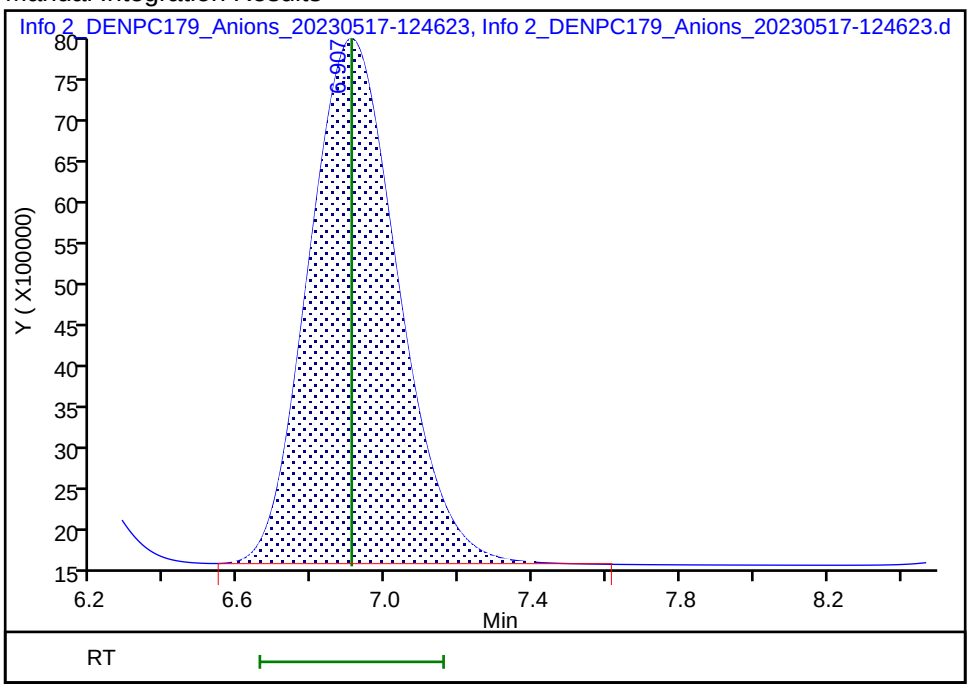
Processing Integration Results

RT: 6.91
Area: 111209542
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 6.91
Area: 108998670
Amount: 2.411997
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:16:38 -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\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-124

Injection Date: 17-May-2023 12:31:00 Instrument ID: WC_IonChrom10

Lims ID: lcs

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

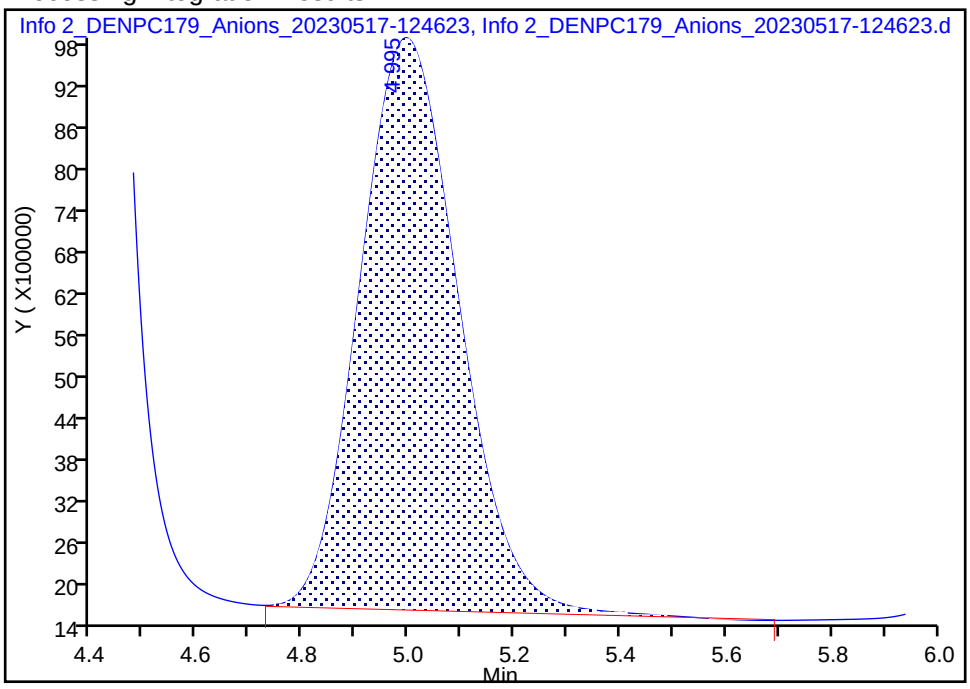
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0

Signal: 1

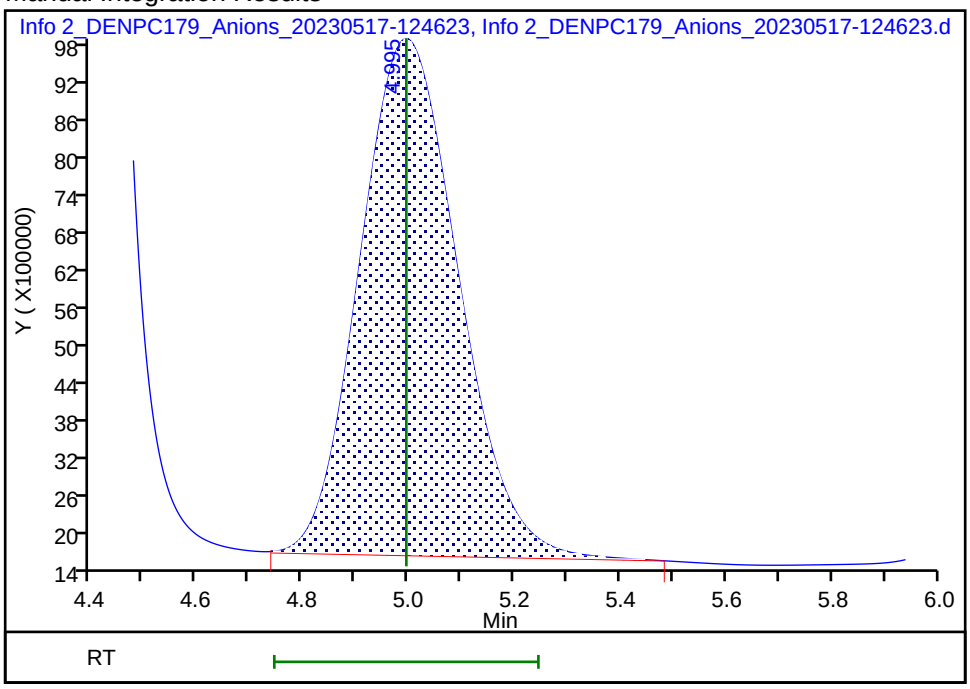
Processing Integration Results

RT: 5.00
Area: 107150867
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 5.00
Area: 105722604
Amount: 2.307097
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:16:32 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-130
Lims ID: lcsd
Client ID:
Sample Type: LCSD
Inject. Date: 17-May-2023 12:46:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-005
Misc. Info.: 280-0121544-005
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:10 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:17:20

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	ND	
2 Chloride	4.310	4.310	0.000	931599134	NC	NC	M
3 Nitrite as N	4.995	4.995	0.000	106579204	2.50	2.33	M
4 Bromide	6.155	6.155	0.000	19050636	NC	NC	
5 Nitrate as N	6.907	6.907	0.000	109553484	2.50	2.42	M
6 Orthophosphate as P	9.040	9.040	0.000	69894856	2.50	2.78	
7 Sulfate	10.222	10.222	0.000	671045241	NC	NC	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

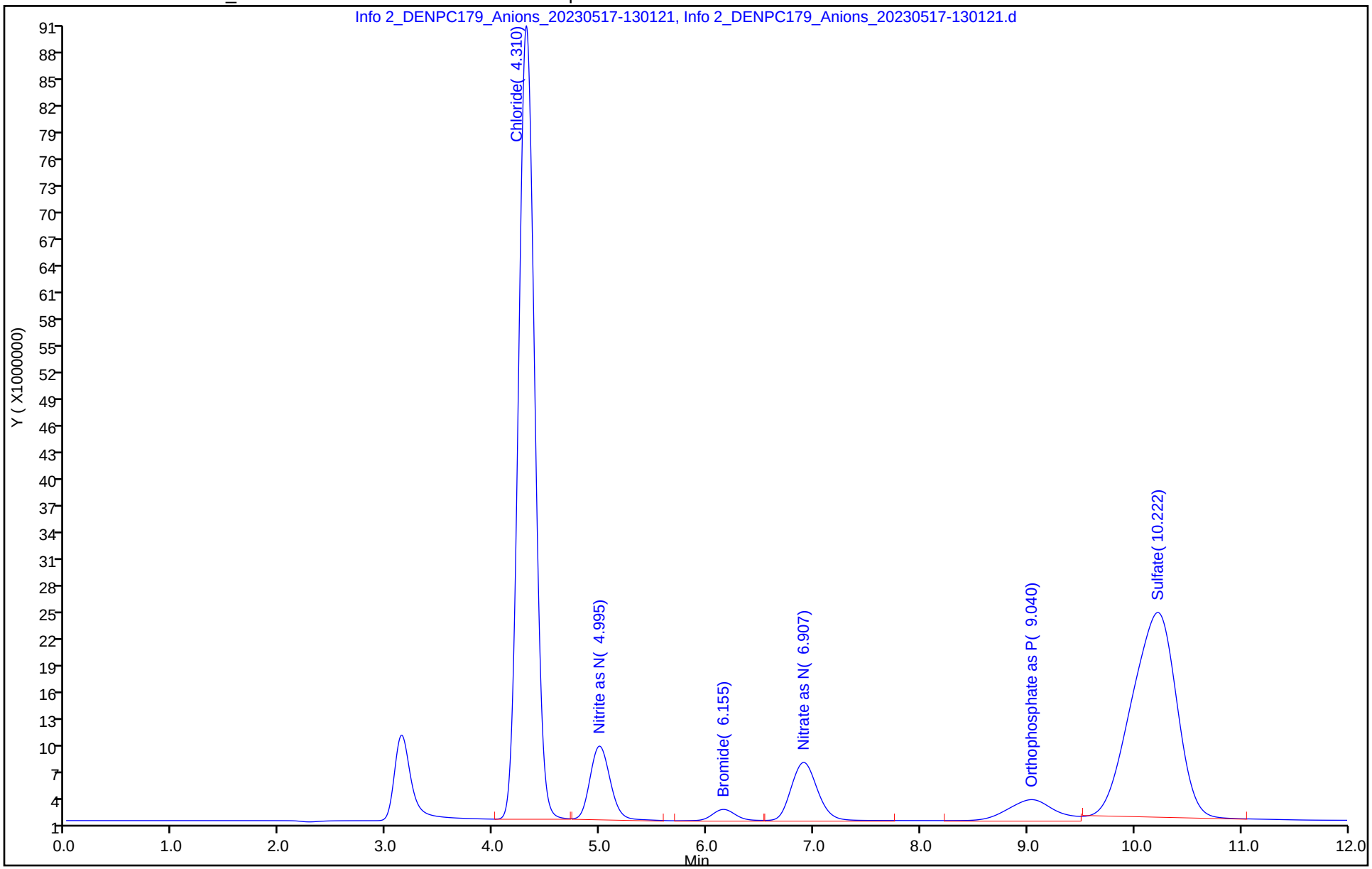
Reagents:

IC LCS_01954 Amount Added: 10.00 Units: mL

Report Date: 18-May-2023 10:40:10 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-130121.d				
Injection Date:	17-May-2023 12:46:00	Instrument ID:	WC_IonChrom10	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_IC10	Limit Group:	Wet - Anions		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-130

Injection Date: 17-May-2023 12:46:00 Instrument ID: WC_IonChrom10

Lims ID: lcsd

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

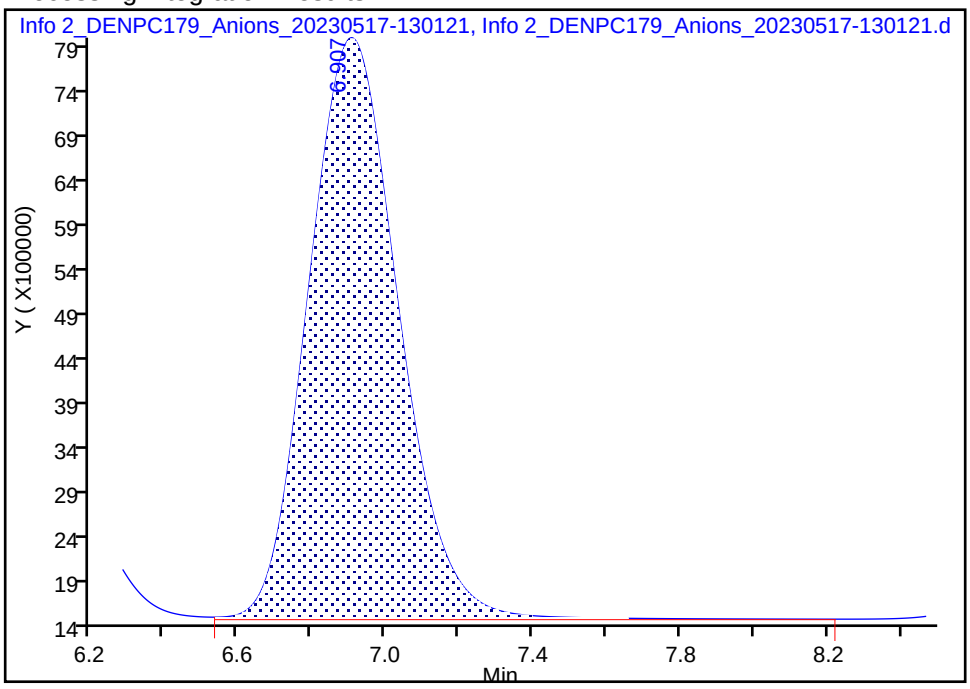
Column: Detector Info 2_091554_1

5 Nitrate as N, CAS: 14797-55-8

Signal: 1

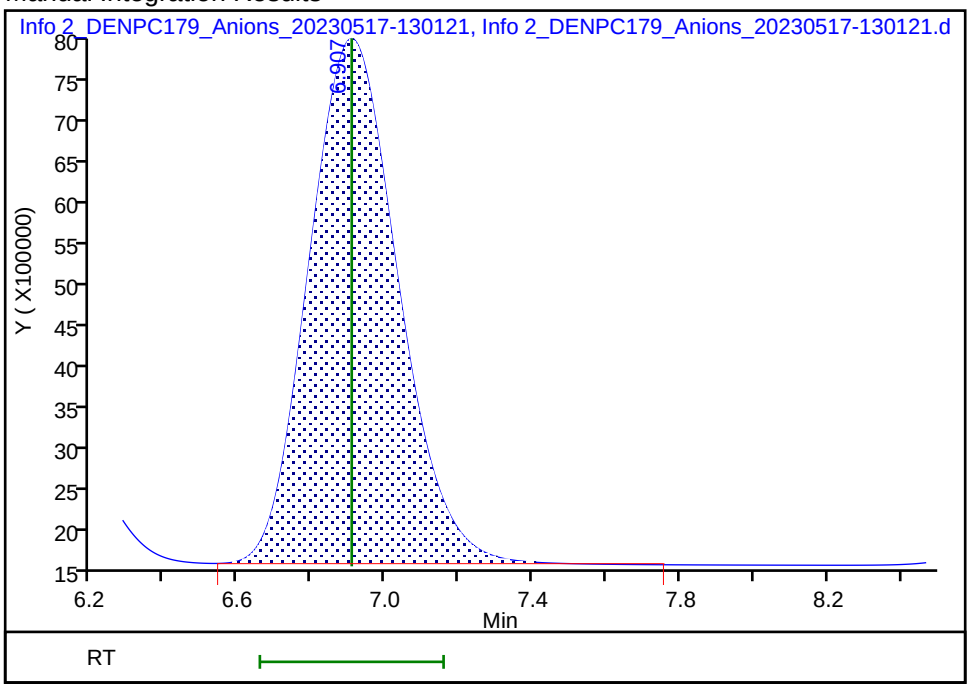
Processing Integration Results

RT: 6.91
Area: 111600891
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 6.91
Area: 109553484
Amount: 2.424093
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:17:10 -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\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-130

Injection Date: 17-May-2023 12:46:00 Instrument ID: WC_IonChrom10

Lims ID: lcsd

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

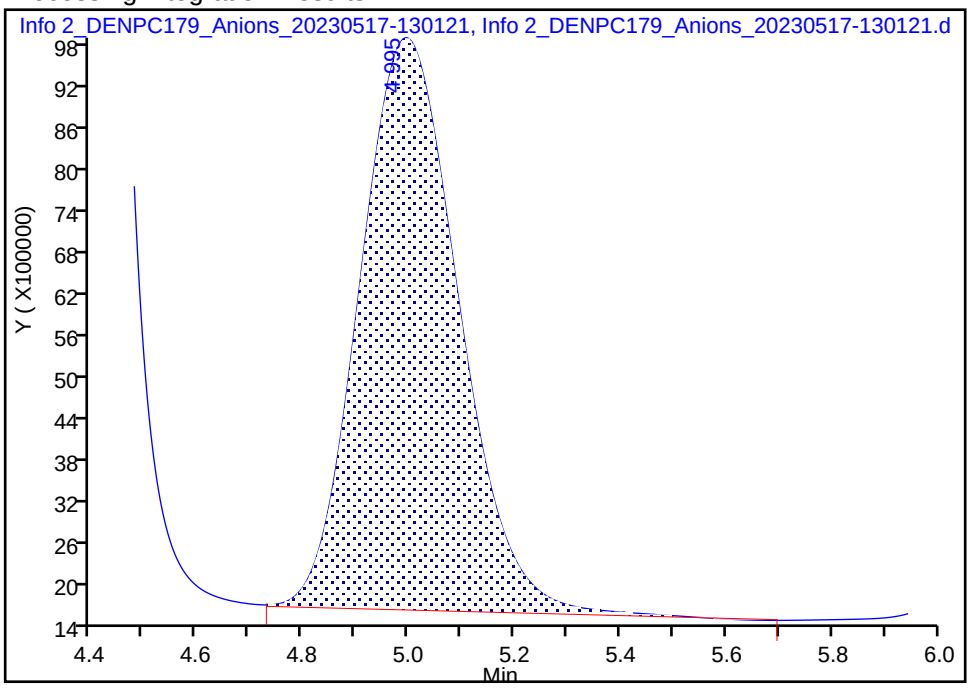
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0

Signal: 1

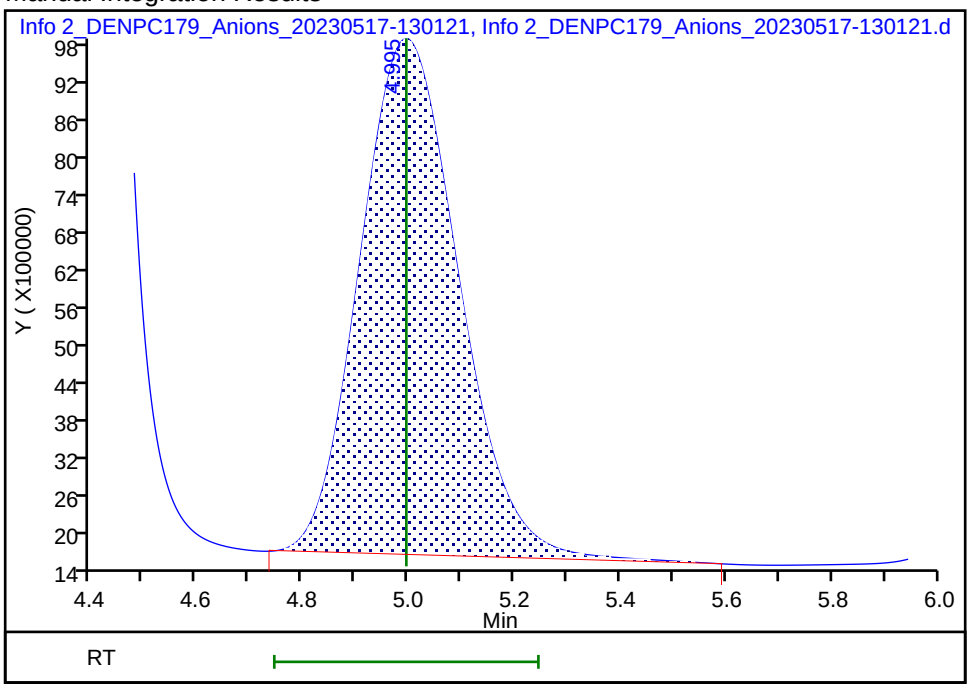
Processing Integration Results

RT: 5.00
Area: 107294220
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 5.00
Area: 106579204
Amount: 2.325567
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:17:01 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-131
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 17-May-2023 13:01:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-006
Misc. Info.: 280-0121544-006
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:11 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:17:32

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143				ND	
2 Chloride		4.310				ND	
3 Nitrite as N		4.995				ND	
4 Bromide	6.233	6.233	0.000	669198		NC	
5 Nitrate as N		6.907				ND	
6 Orthophosphate as P	9.110	9.110	0.000	13138069		0.1018	
7 Sulfate	10.285	10.285	0.000	1548987		NC	M

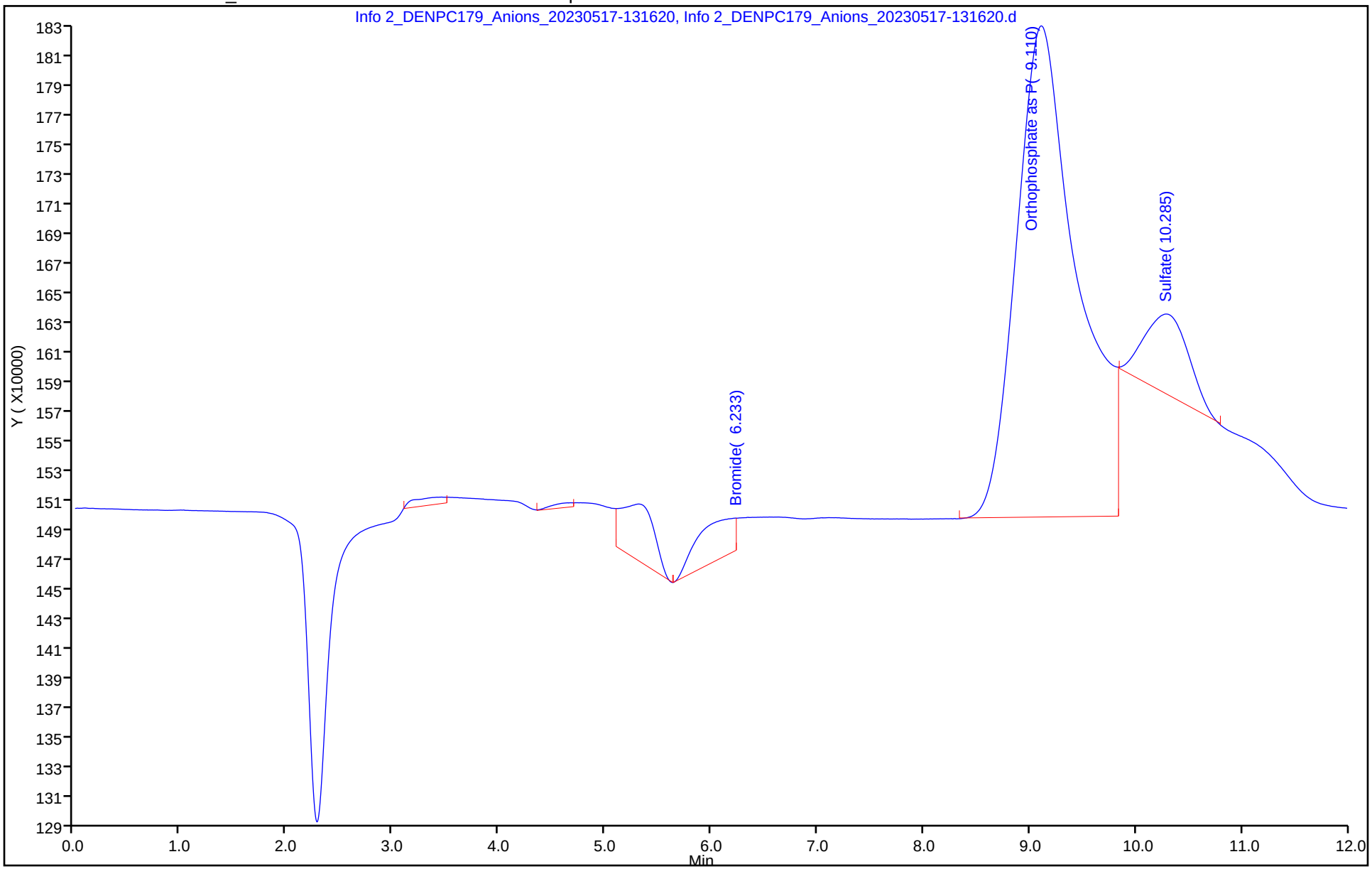
QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Report Date: 18-May-2023 10:40:11 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-131620.d				
Injection Date:	17-May-2023 13:01:00	Instrument ID:	WC_IonChrom10	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_IC10	Limit Group:	Wet - Anions		



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-142
Lims ID: 280-176591-C-6
Client ID: WBGmw-018-230401-GW
Sample Type: Client
Inject. Date: 17-May-2023 14:11:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-010
Misc. Info.: 280-0121544-010
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:11 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:18:57

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	
2 Chloride	4.302	4.310	-0.008	13992442	NC	
3 Nitrite as N		4.995			ND	
4 Bromide	6.220	6.233	-0.013	2546302	NC	
5 Nitrate as N	6.967	6.907	0.060	19167861	0.4535	M
6 Orthophosphate as P	9.153	9.110	0.043	5175534	-0.2745	
7 Sulfate	10.257	10.285	-0.028	130990299	NC	M

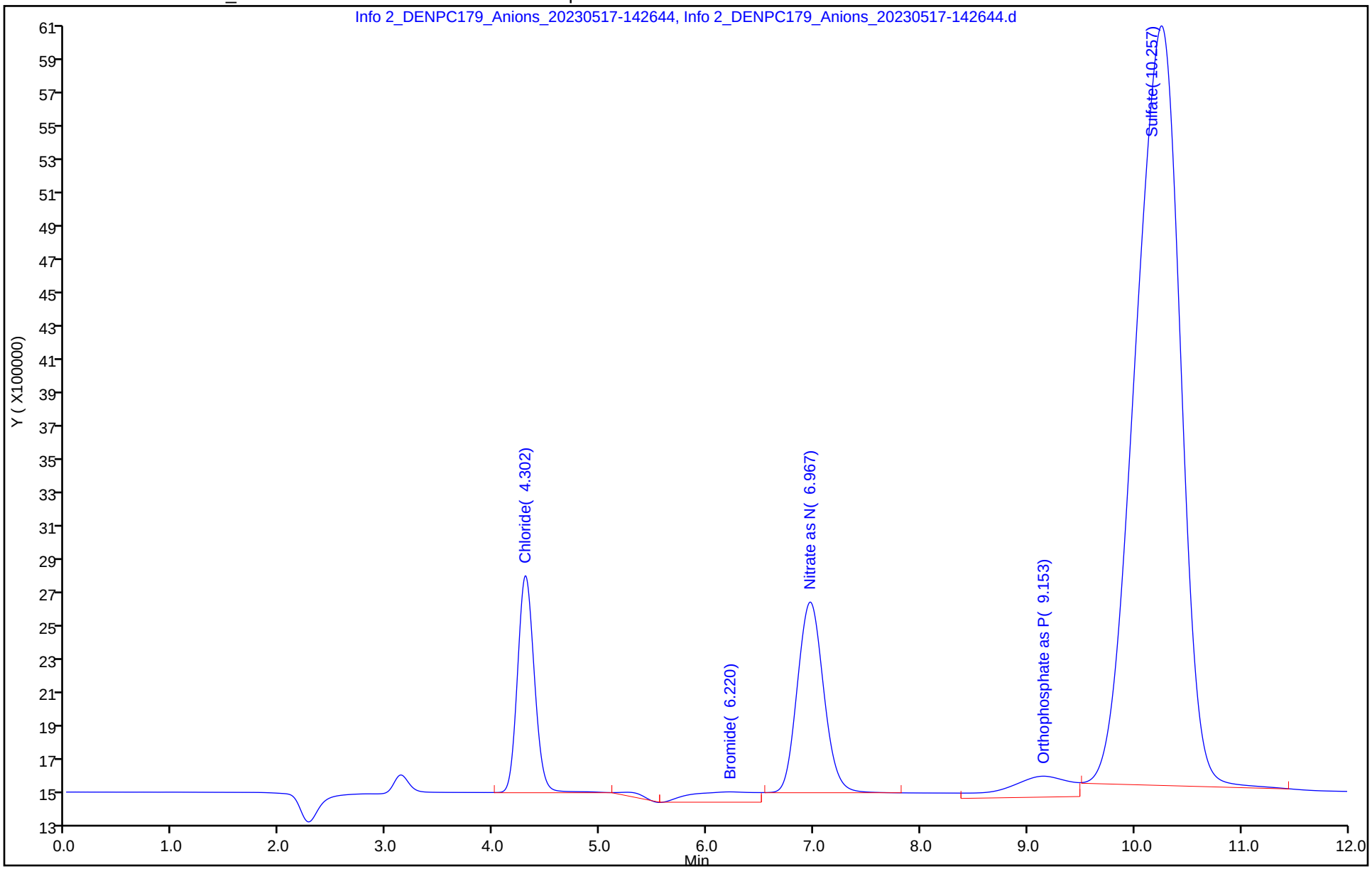
QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Report Date: 18-May-2023 10:40:14 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-142644.d				
Injection Date:	17-May-2023 14:11:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	280-176591-C-6	Lab Sample ID:	280-176591-6	Worklist Smp#:	10
Client ID:	WBGmw-018-230401-GW				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



Manual Integration/User Assign Peak Report

Eurofins Denver

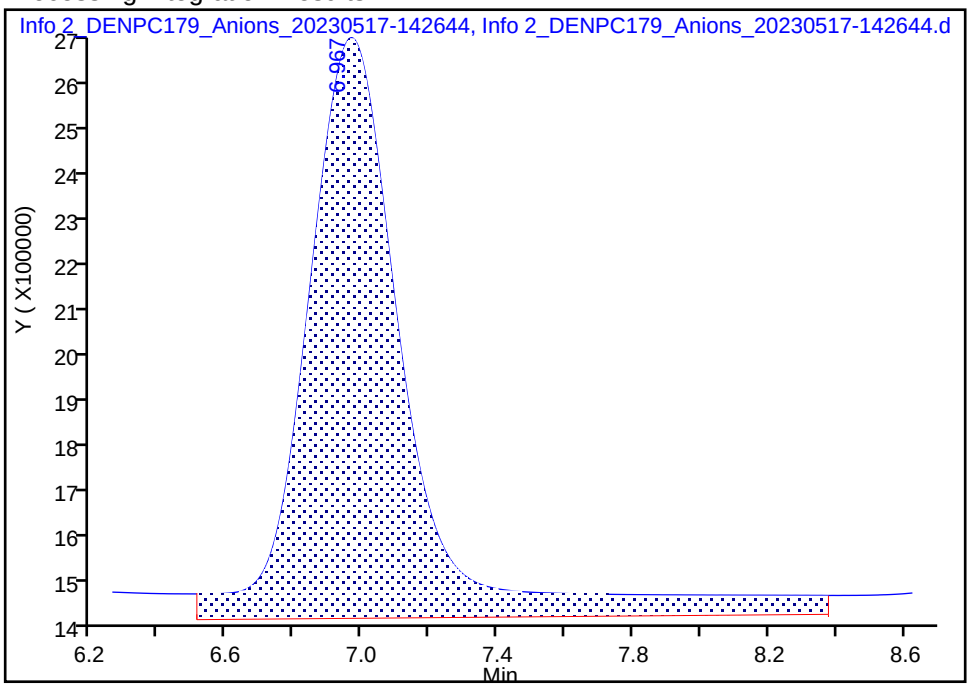
Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-142				
Injection Date:	17-May-2023 14:11:00	Instrument ID:	WC_IonChrom10		
Lims ID:	280-176591-C-6	Lab Sample ID:	280-176591-6		
Client ID:	WBGmw-018-230401-GW				
Operator ID:	wetchemd	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	Anions_IC10	Limit Group:	Wet - Anions		
Column:		Detector	Info 2_091554_1		

5 Nitrate as N, CAS: 14797-55-8

Signal: 1

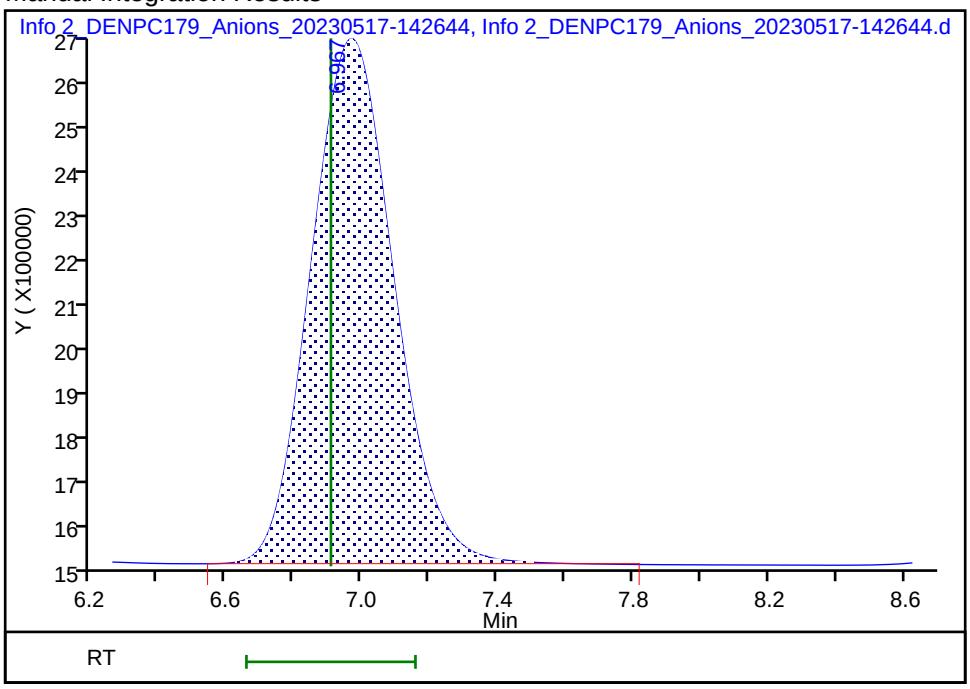
Processing Integration Results

RT: 6.97
Area: 24183209
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 6.97
Area: 19167861
Amount: 0.453520
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:18:50 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Report Date: 18-May-2023 10:40:19 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-161
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 17-May-2023 15:56:00 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-017
Misc. Info.: 280-0121544-017
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:18 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:21:11

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			NC	ND	
2 Chloride	4.312	4.310	0.002	927066178	NC	NC	M
3 Nitrite as N	4.997	4.995	0.002	107380231	2.50	2.34	M
4 Bromide	6.138	6.233	-0.095	18704552	NC	NC	
5 Nitrate as N	6.897	6.907	-0.010	108776181	2.50	2.41	M
6 Orthophosphate as P	9.040	9.110	-0.070	59153582	2.50	2.28	
7 Sulfate	10.227	10.285	-0.058	659062955	NC	NC	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

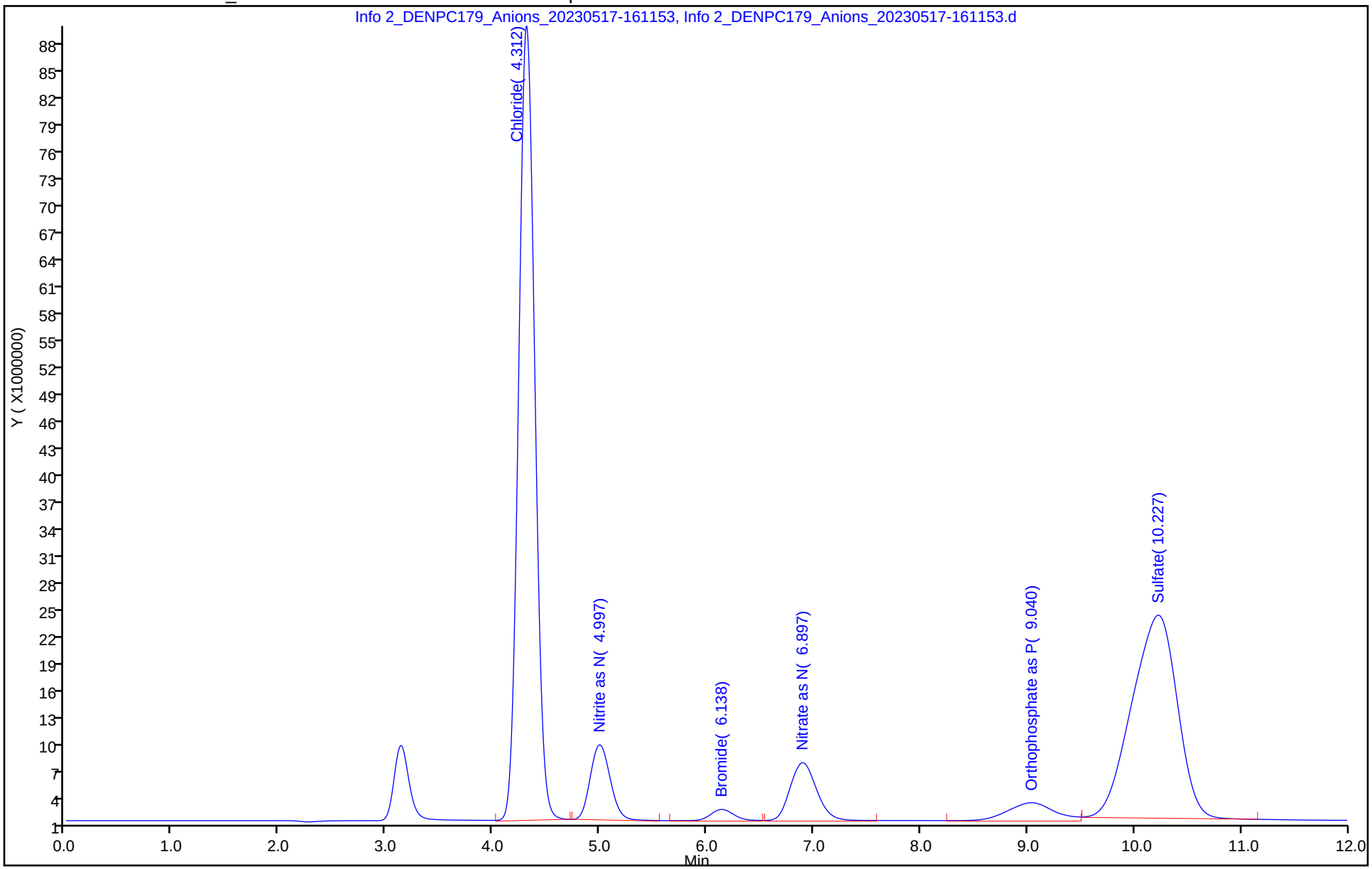
Reagents:

IC LCS_01954 Amount Added: 10.00 Units: mL

Report Date: 18-May-2023 10:40:19 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-161153.d				
Injection Date:	17-May-2023 15:56:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ccv			Worklist Smp#:	17
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-161

Injection Date: 17-May-2023 15:56:00 Instrument ID: WC_IonChrom10

Lims ID: ccv

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 17

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

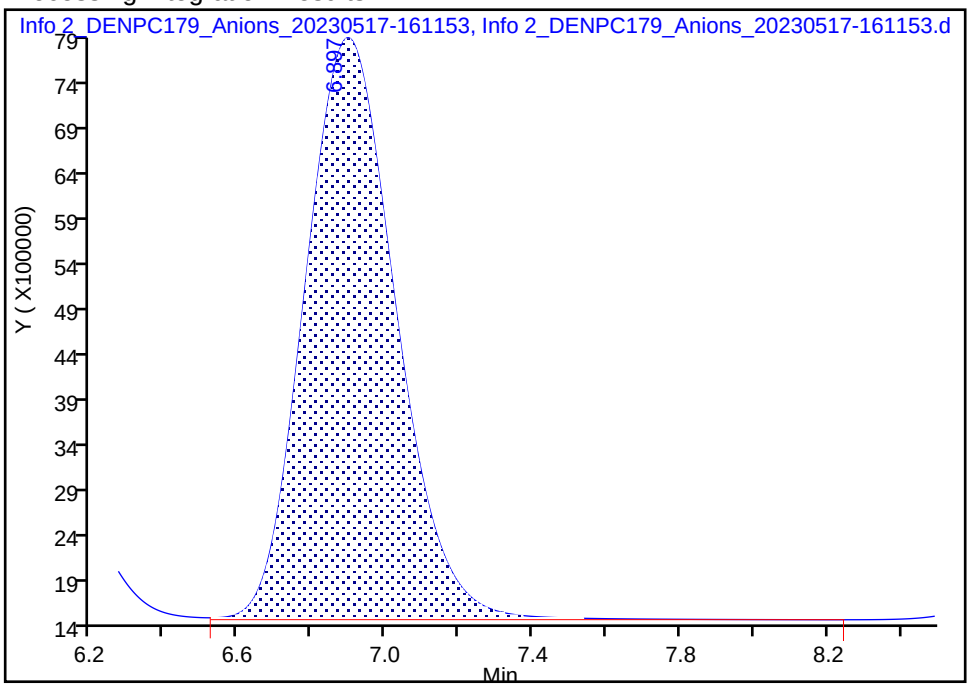
Column: Detector Info 2_091554_1

5 Nitrate as N, CAS: 14797-55-8

Signal: 1

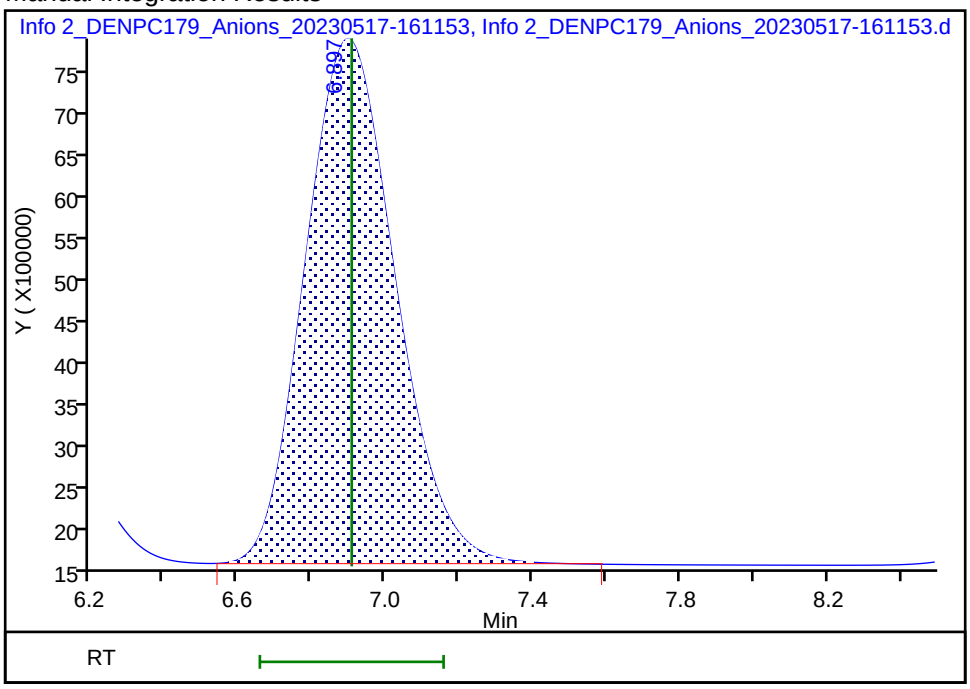
Processing Integration Results

RT: 6.90
Area: 110518199
Amount: 2.445126
Amount Units: ug/ml



Manual Integration Results

RT: 6.90
Area: 108776181
Amount: 2.407146
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:21:04 -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\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-161

Injection Date: 17-May-2023 15:56:00 Instrument ID: WC_IonChrom10

Lims ID: ccv

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 17

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

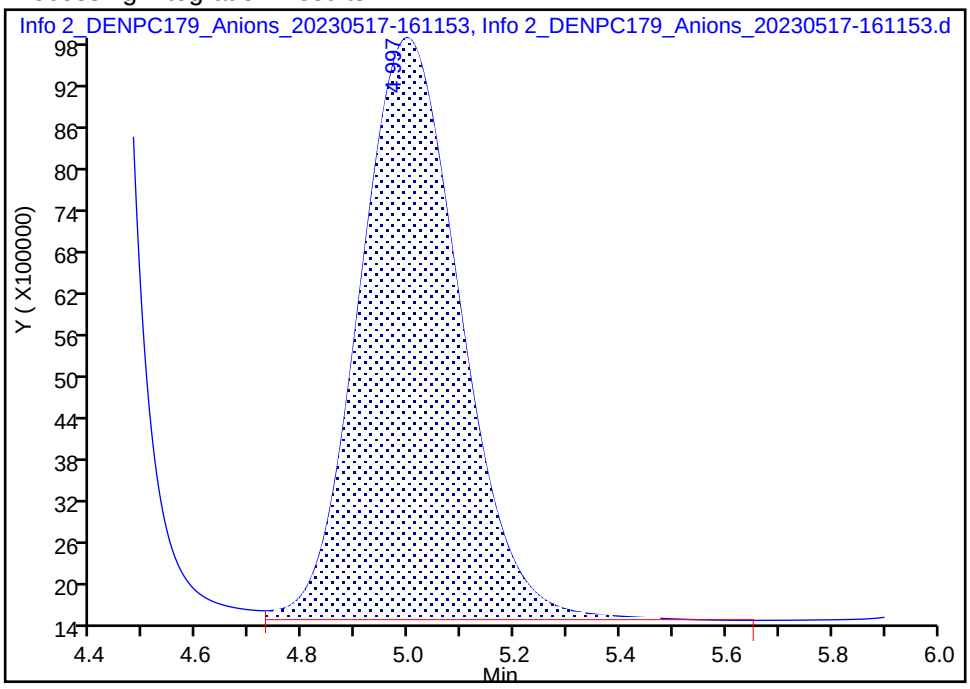
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0

Signal: 1

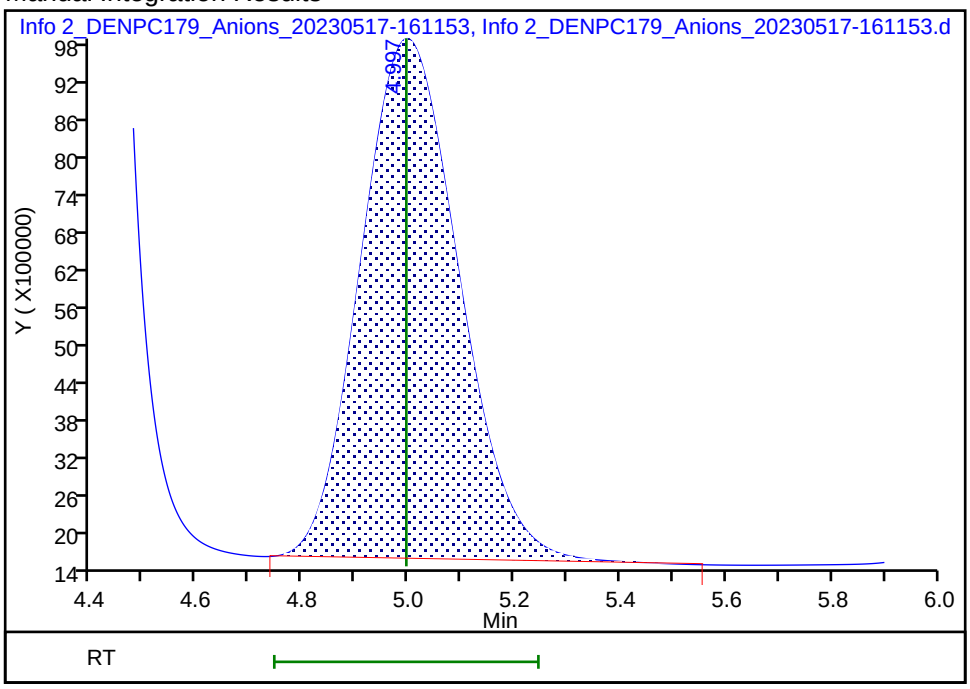
Processing Integration Results

RT: 5.00
Area: 110560788
Amount: 2.411416
Amount Units: ug/ml



Manual Integration Results

RT: 5.00
Area: 107380231
Amount: 2.342838
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:20:58 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-162
Lims ID: ccb
Client ID:
Sample Type: CCB
Inject. Date: 17-May-2023 16:11:00 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-018
Misc. Info.: 280-0121544-018
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:18 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:21:27

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143				ND	
2 Chloride		4.310				ND	
3 Nitrite as N		4.995				ND	U
4 Bromide		6.233				ND	U
5 Nitrate as N		6.907				ND	
6 Orthophosphate as P	9.120	9.110	0.010	6858134		-0.1950	
7 Sulfate	10.298	10.285	0.013	1340356		NC	M

QC Flag Legend

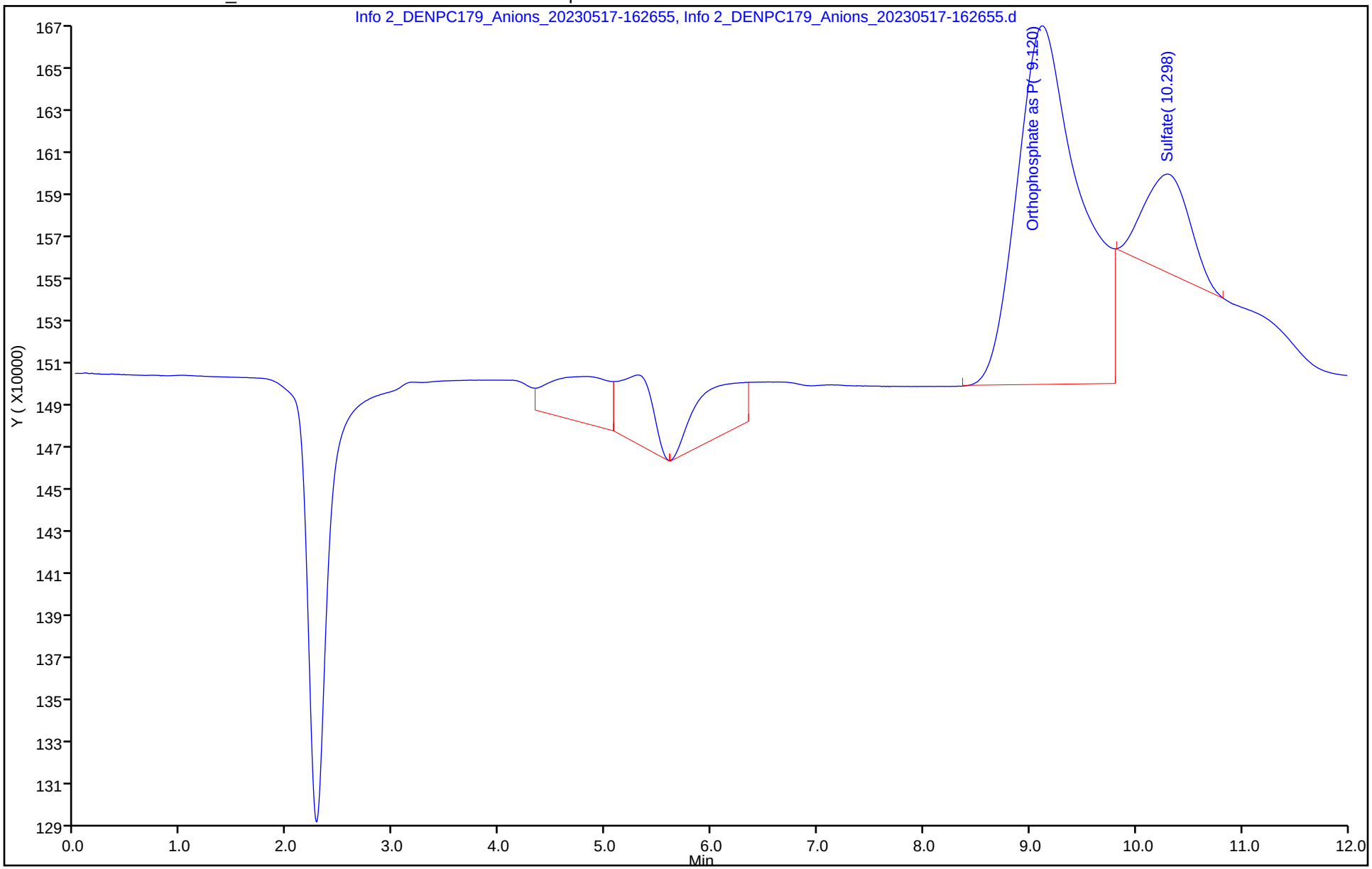
Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 18-May-2023 10:40:19 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-162655.d

Injection Date:	17-May-2023 16:11:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ccb			Worklist Smp#:	18
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



User Disabled Compound Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-162

Injection Date: 17-May-2023 16:11:00 Instrument ID: WC_IonChrom10

Lims ID: ccb

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 18

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

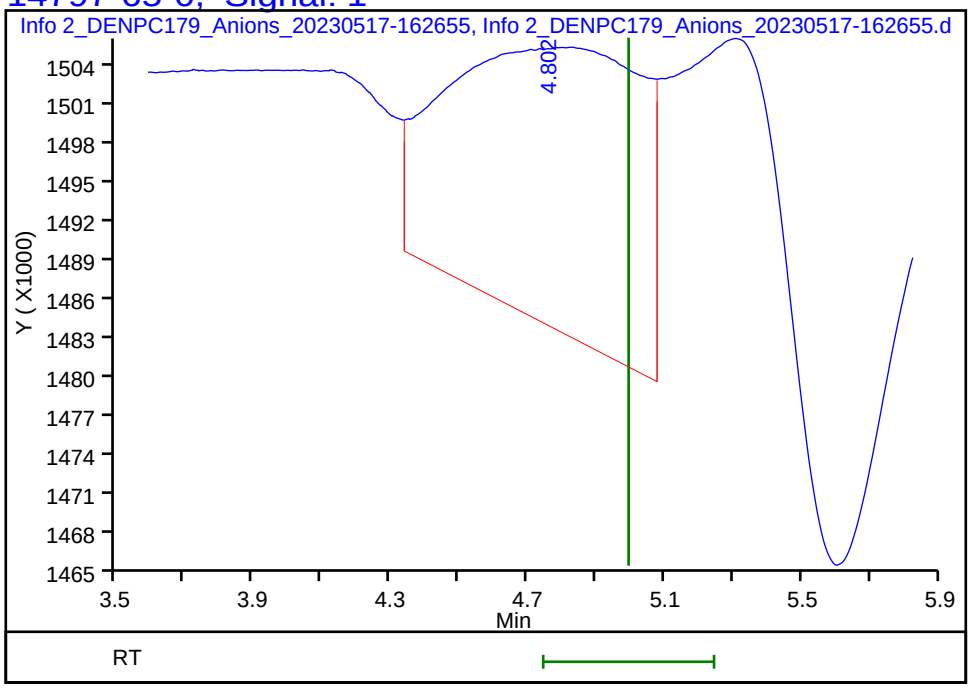
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0, Signal: 1

RT: 4.80

Response: 820627

Amount: 0.045236



Reviewer: LVW8, 18-May-2023 10:21:27

Audit Action: Manually Integrated Audit Reason:

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-172
Lims ID: 280-176591-C-4
Client ID: WBGmw-009-230401-GW
Sample Type: Client
Inject. Date: 17-May-2023 17:12:00 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-022
Misc. Info.: 280-0121544-022
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:18 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:22:06

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	
2 Chloride	4.303	4.310	-0.007	21772136	NC	M
3 Nitrite as N		4.995			ND	
4 Bromide	6.253	6.233	0.020	3050745	NC	
5 Nitrate as N	7.000	6.907	0.093	14450165	0.3507	M
6 Orthophosphate as P	9.192	9.110	0.082	2004169	-0.4244	
7 Sulfate	10.275	10.285	-0.010	201329670	NC	M

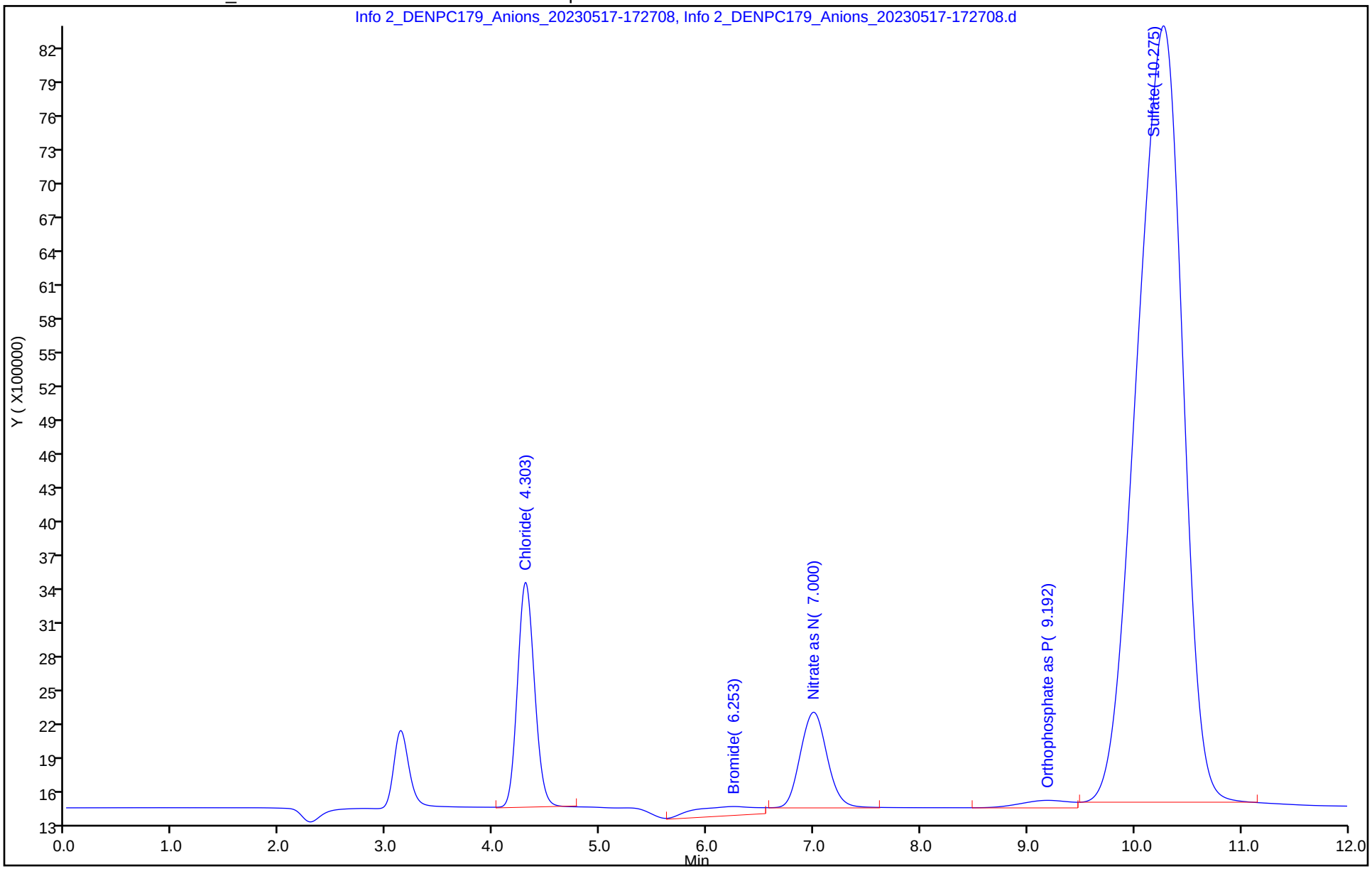
QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Report Date: 18-May-2023 10:40:21 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-172708.d				
Injection Date:	17-May-2023 17:12:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	280-176591-C-4	Lab Sample ID:	280-176591-4	Worklist Smp#:	22
Client ID:	WBGmw-009-230401-GW				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-172

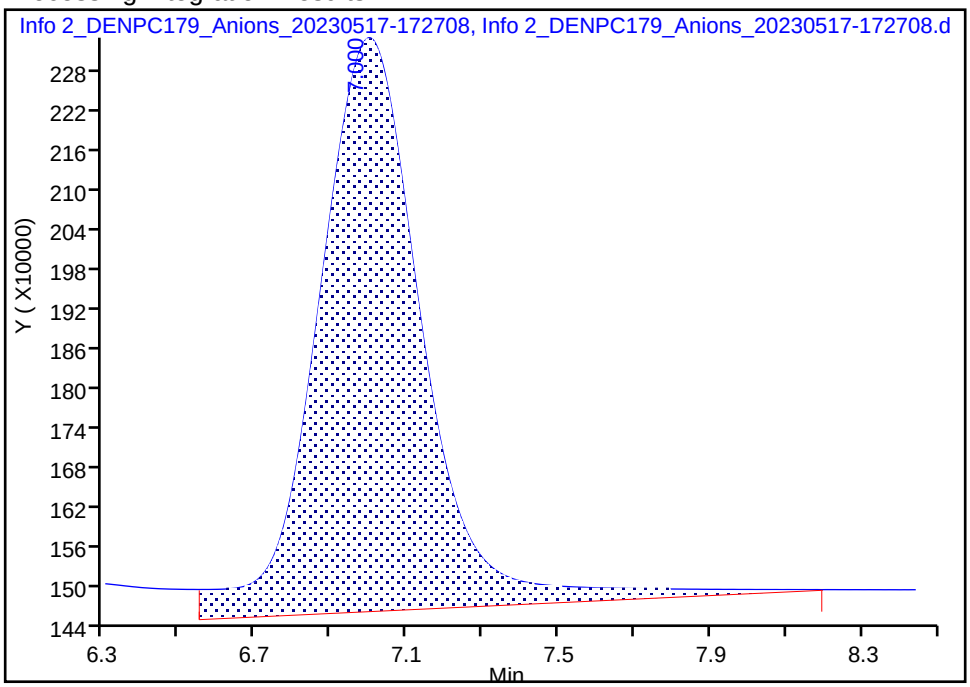
Injection Date:	17-May-2023 17:12:00	Instrument ID:	WC_IonChrom10		
Lims ID:	280-176591-C-4	Lab Sample ID:	280-176591-4		
Client ID:	WBGmw-009-230401-GW				
Operator ID:	wetchemd	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	Anions_IC10	Limit Group:	Wet - Anions		
Column:		Detector	Info 2_091554_1		

5 Nitrate as N, CAS: 14797-55-8

Signal: 1

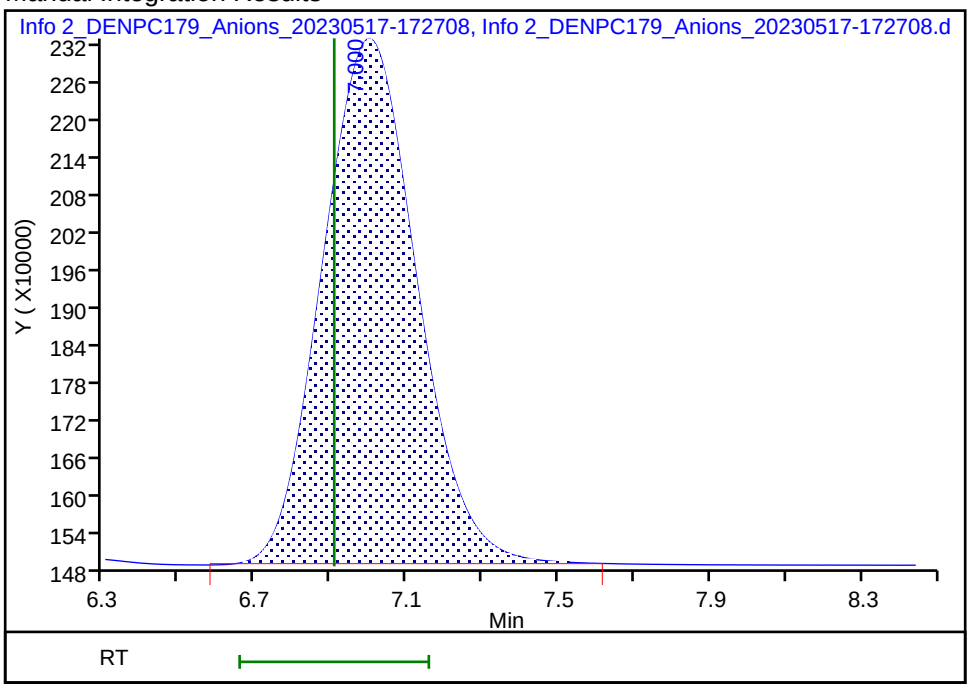
Processing Integration Results

RT: 7.00
Area: 16855603
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 7.00
Area: 14450165
Amount: 0.350665
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:21:57 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Report Date: 18-May-2023 10:40:26 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-191
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 17-May-2023 18:57:00 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-029
Misc. Info.: 280-0121544-029
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:26 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:24:35

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	ND	
2 Chloride	4.312	4.310	0.002	923288229	NC	NC	M
3 Nitrite as N	4.997	4.995	0.002	106521476	2.50	2.32	M
4 Bromide	6.135	6.233	-0.098	17963030	NC	NC	
5 Nitrate as N	6.893	6.907	-0.014	107570684	2.50	2.38	M
6 Orthophosphate as P	9.042	9.110	-0.068	56235113	2.50	2.14	
7 Sulfate	10.215	10.285	-0.070	652135007	NC	NC	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

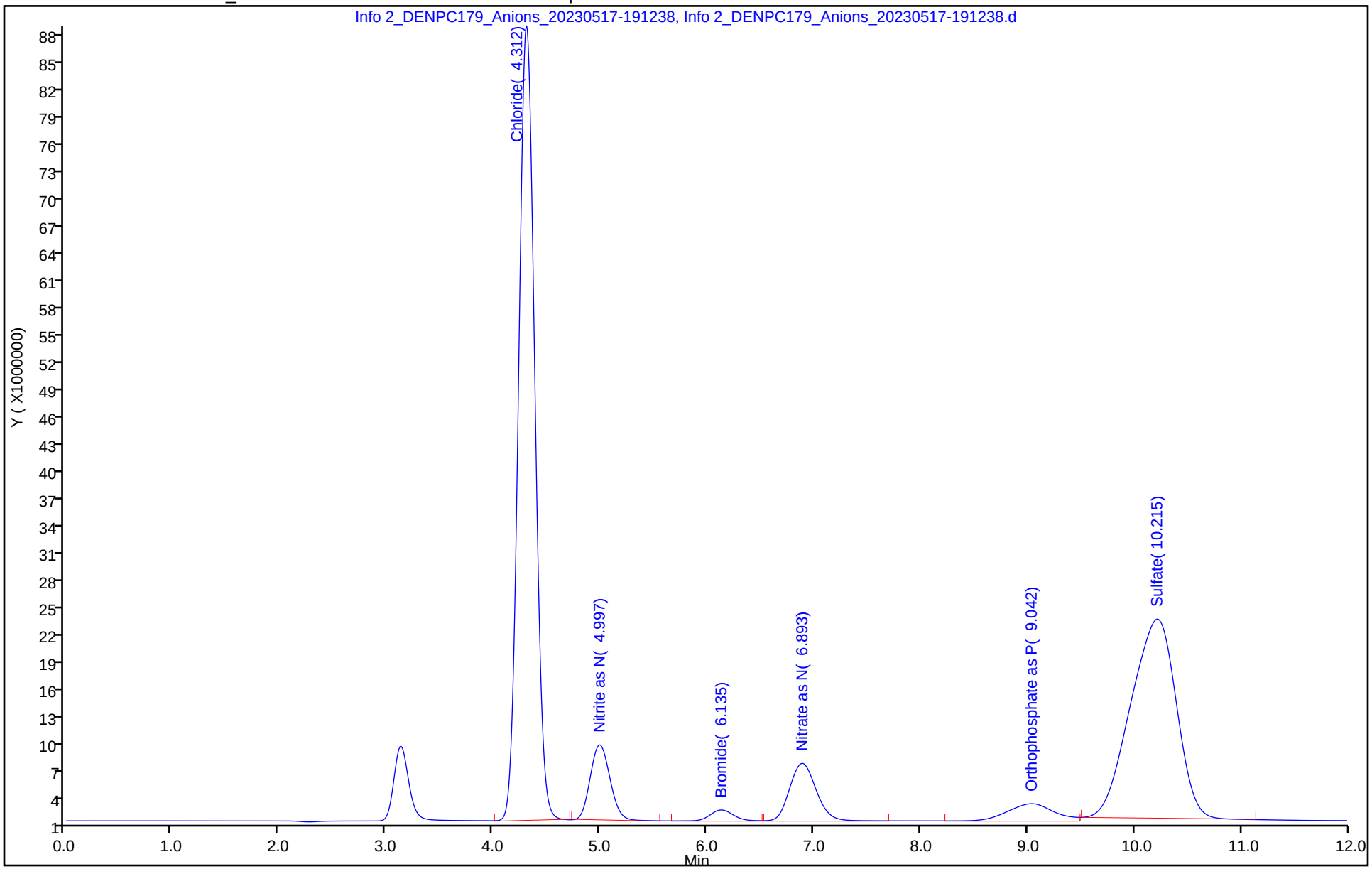
Reagents:

IC LCS_01954 Amount Added: 10.00 Units: mL

Report Date: 18-May-2023 10:40:26 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-191238.d				
Injection Date:	17-May-2023 18:57:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ccv			Worklist Smp#:	29
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-191

Injection Date: 17-May-2023 18:57:00 Instrument ID: WC_IonChrom10

Lims ID: ccv

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 29

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

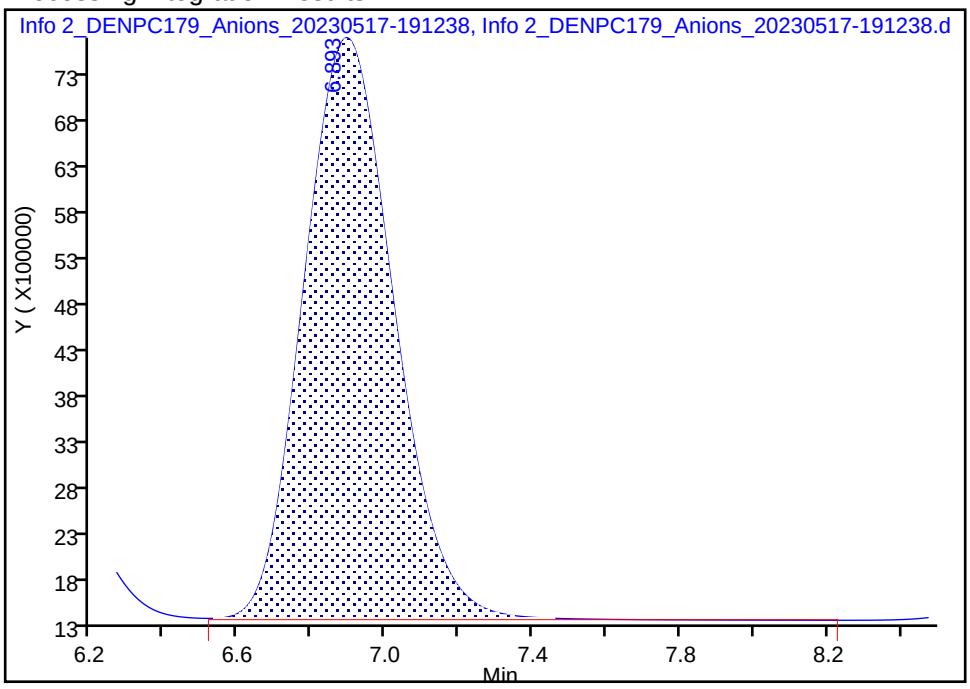
Column: Detector Info 2_091554_1

5 Nitrate as N, CAS: 14797-55-8

Signal: 1

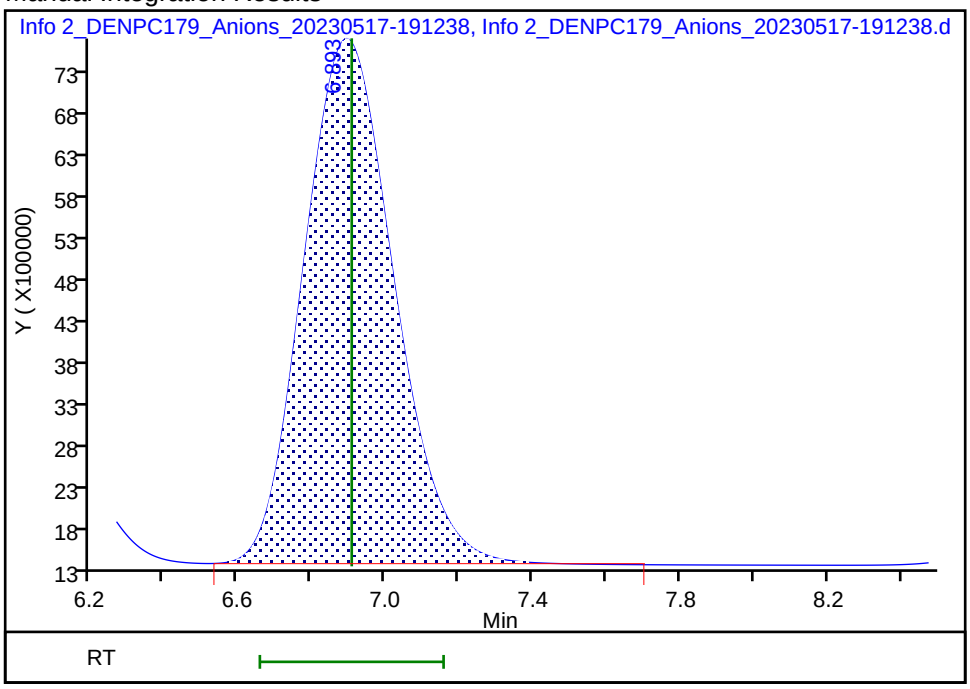
Processing Integration Results

RT: 6.89
Area: 108721119
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 6.89
Area: 107570684
Amount: 2.380864
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:24:28 -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\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-191

Injection Date: 17-May-2023 18:57:00 Instrument ID: WC_IonChrom10

Lims ID: ccv

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 29

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

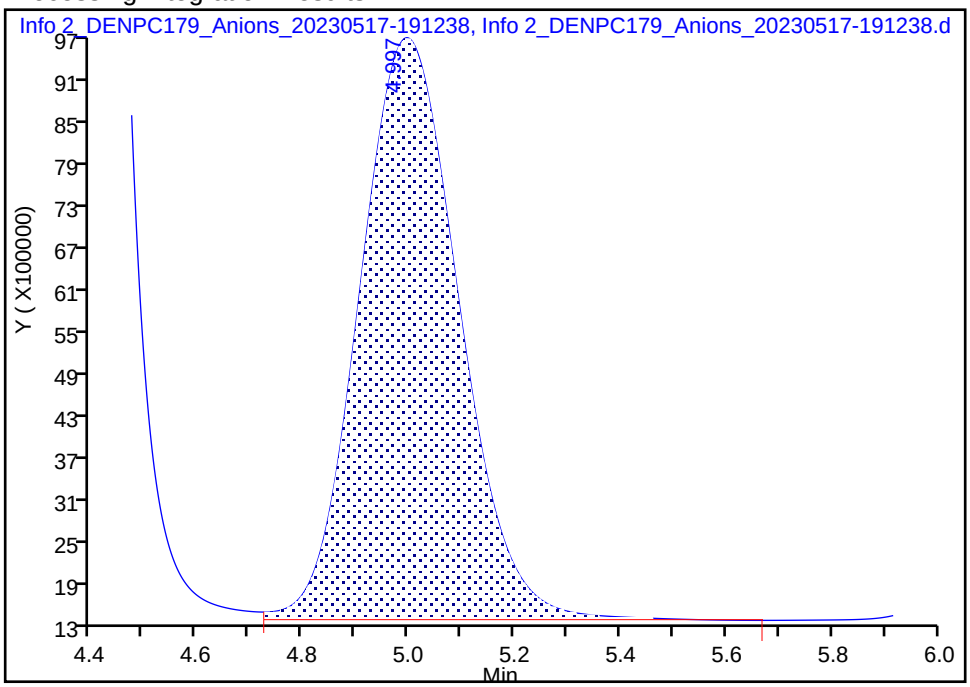
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0

Signal: 1

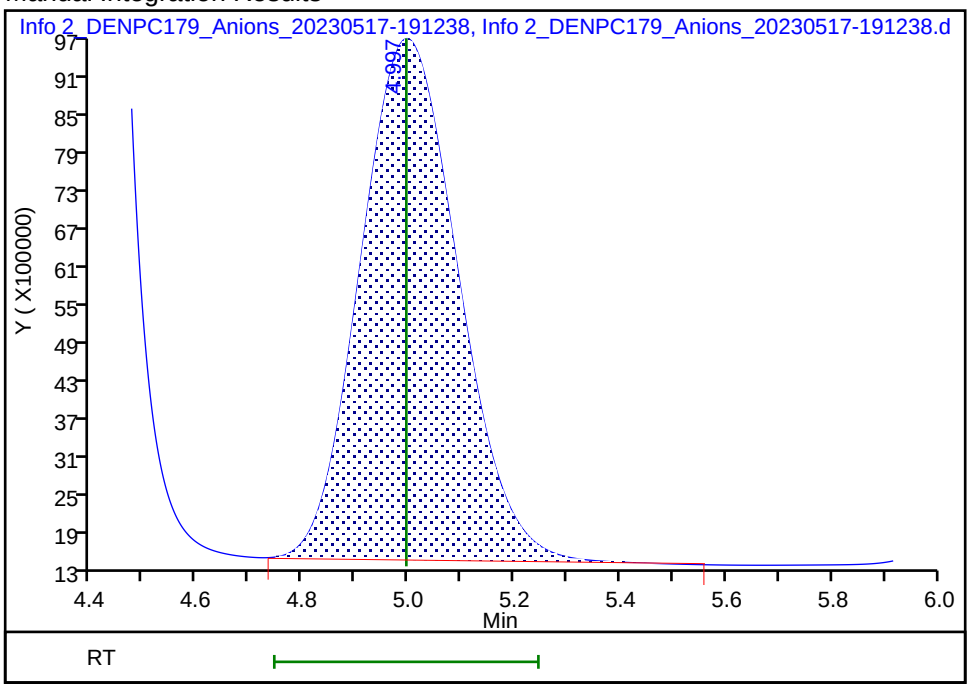
Processing Integration Results

RT: 5.00
Area: 109435214
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 5.00
Area: 106521476
Amount: 2.324322
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:24:23 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-192
Lims ID: ccb
Client ID:
Sample Type: CCB
Inject. Date: 17-May-2023 19:12:00 ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-030
Misc. Info.: 280-0121544-030
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:26 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:24:45

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143				ND	
2 Chloride		4.310				ND	
3 Nitrite as N		4.995				ND	
4 Bromide		6.233				ND	U
5 Nitrate as N		6.907				ND	
6 Orthophosphate as P	9.135	9.110	0.025	6326357		-0.2201	
7 Sulfate	10.282	10.285	-0.003	886171		NC	M

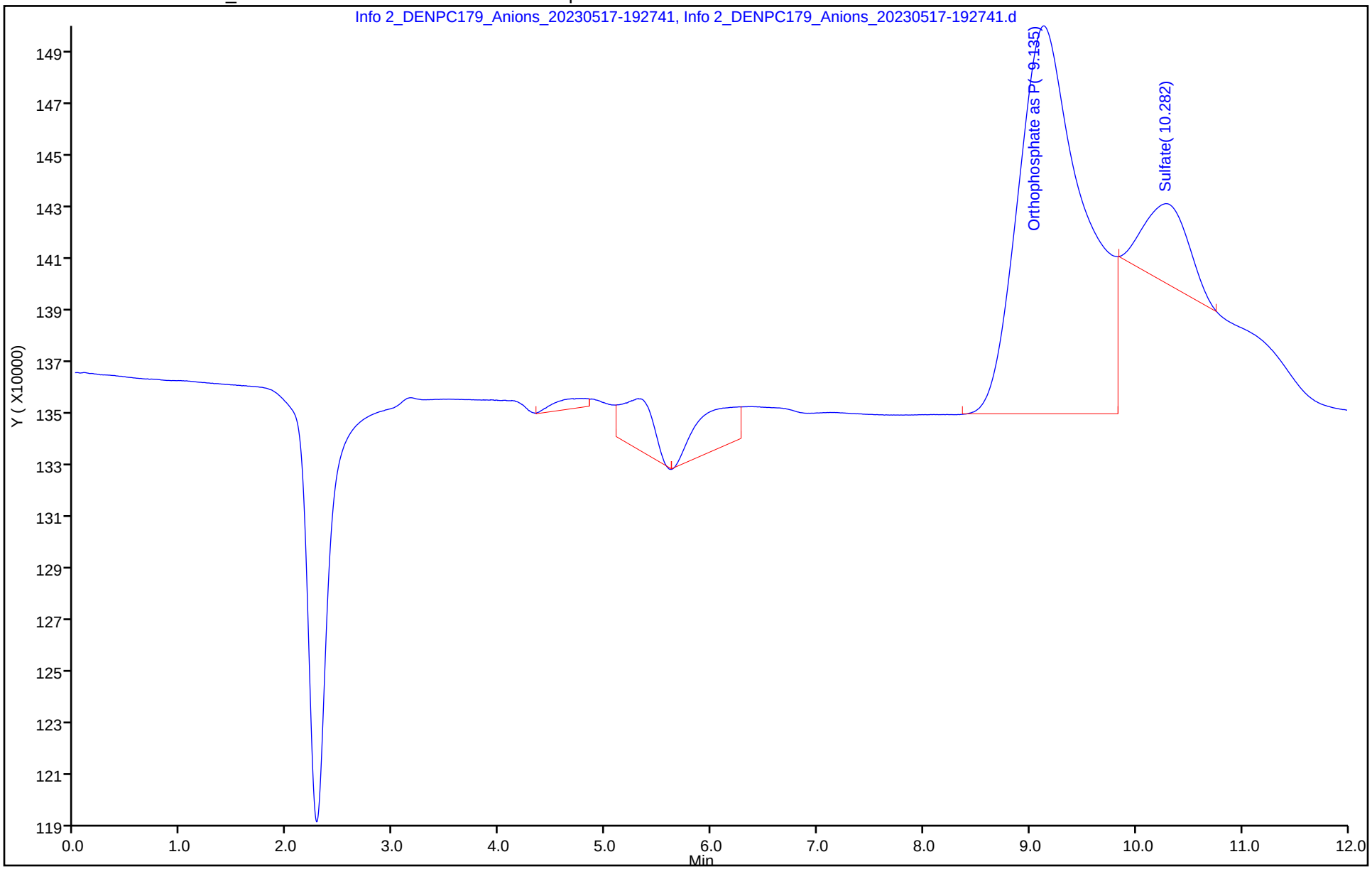
QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 18-May-2023 10:40:27 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-192741.d				
Injection Date:	17-May-2023 19:12:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ccb			Worklist Smp#:	30
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



Report Date: 18-May-2023 10:40:34 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-221
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 17-May-2023 21:58:00 ALS Bottle#: 0 Worklist Smp#: 41
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-041
Misc. Info.: 280-0121544-041
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:33 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:28:31

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	ND	
2 Chloride	4.310	4.310	0.000	924703909	NC	NC	M
3 Nitrite as N	4.995	4.995	0.000	107427468	2.50	2.34	M
4 Bromide	6.132	6.233	-0.101	17937367	NC	NC	
5 Nitrate as N	6.890	6.907	-0.017	107581176	2.50	2.38	M
6 Orthophosphate as P	9.035	9.110	-0.075	54064905	2.50	2.04	
7 Sulfate	10.212	10.285	-0.073	652127387	NC	NC	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

Reagents:

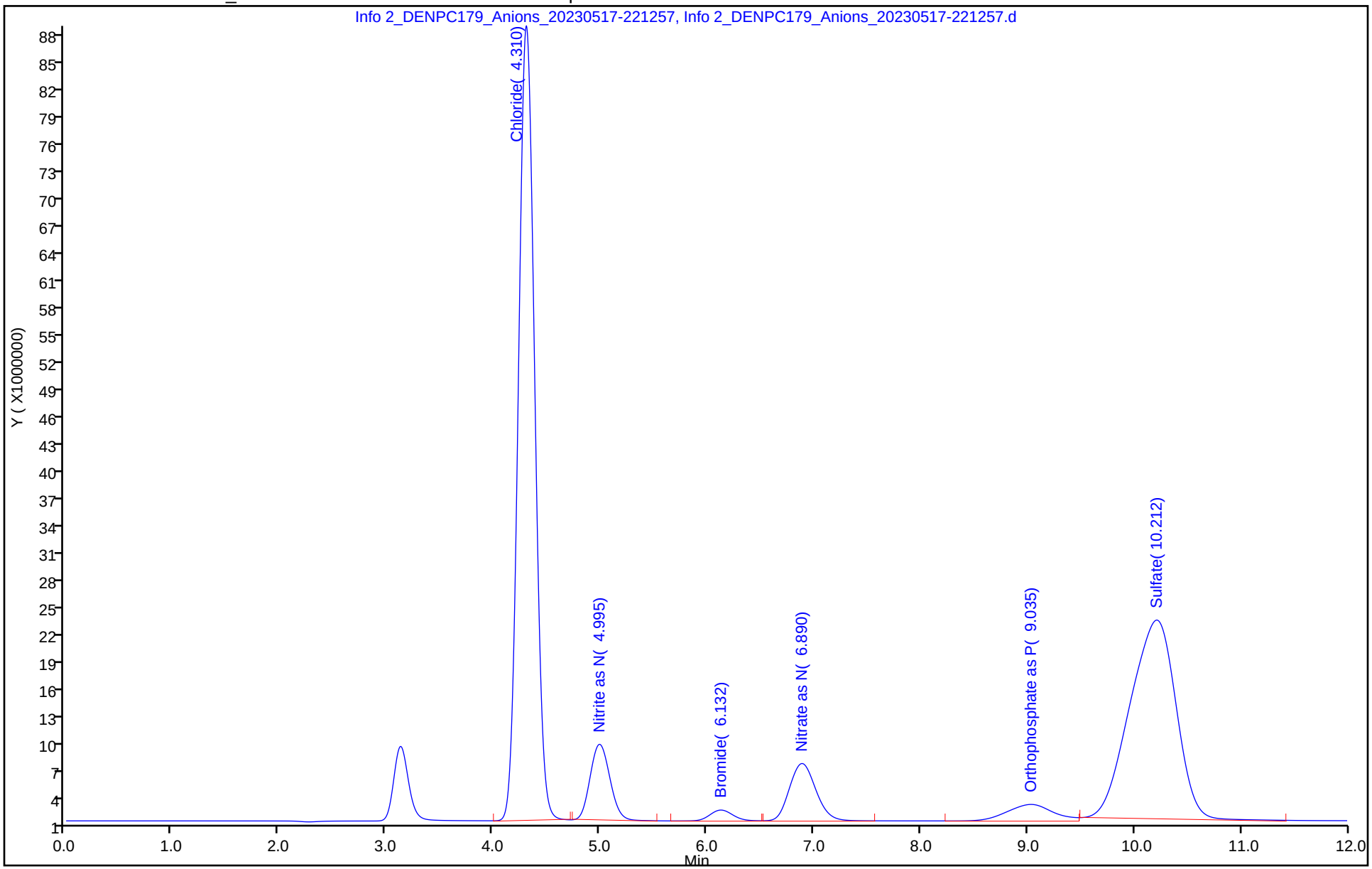
IC LCS_01954 Amount Added: 10.00 Units: mL

Report Date: 18-May-2023 10:40:34 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-221257.d

Injection Date:	17-May-2023 21:58:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ccv			Worklist Smp#:	41
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-221

Injection Date: 17-May-2023 21:58:00 Instrument ID: WC_IonChrom10

Lims ID: ccv

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 41

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

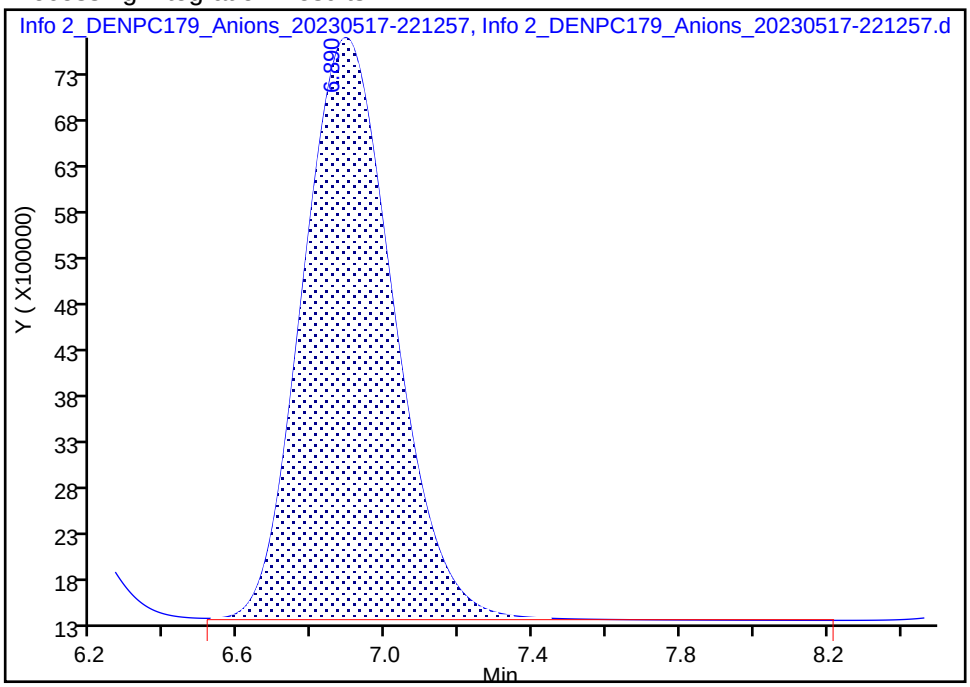
Column: Detector Info 2_091554_1

5 Nitrate as N, CAS: 14797-55-8

Signal: 1

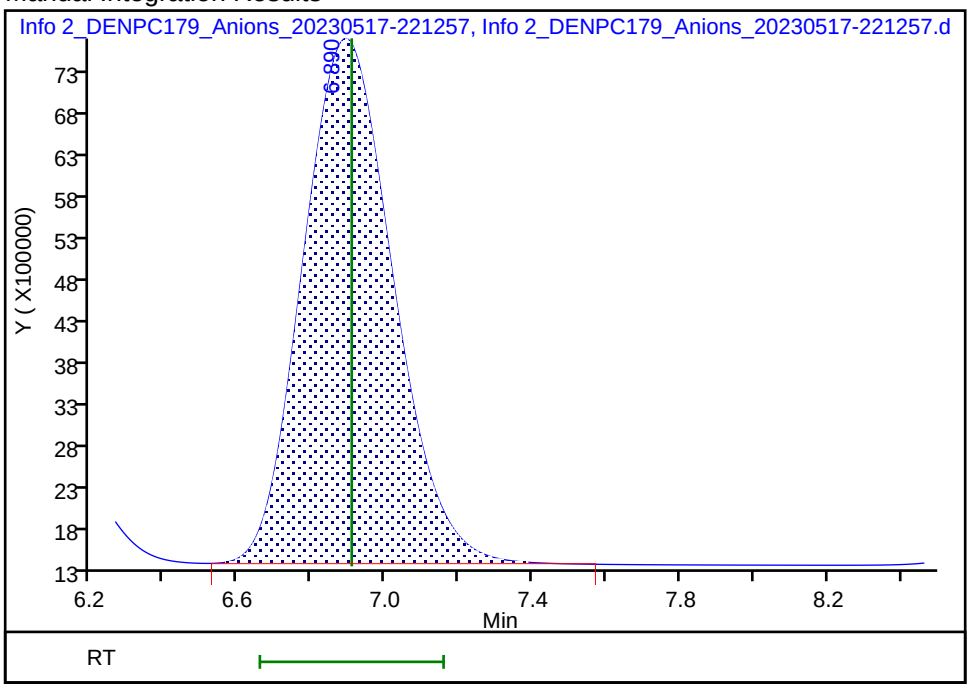
Processing Integration Results

RT: 6.89
Area: 108741554
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 6.89
Area: 107581176
Amount: 2.381093
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:28:25 -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\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-221

Injection Date: 17-May-2023 21:58:00 Instrument ID: WC_IonChrom10

Lims ID: ccv

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 41

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

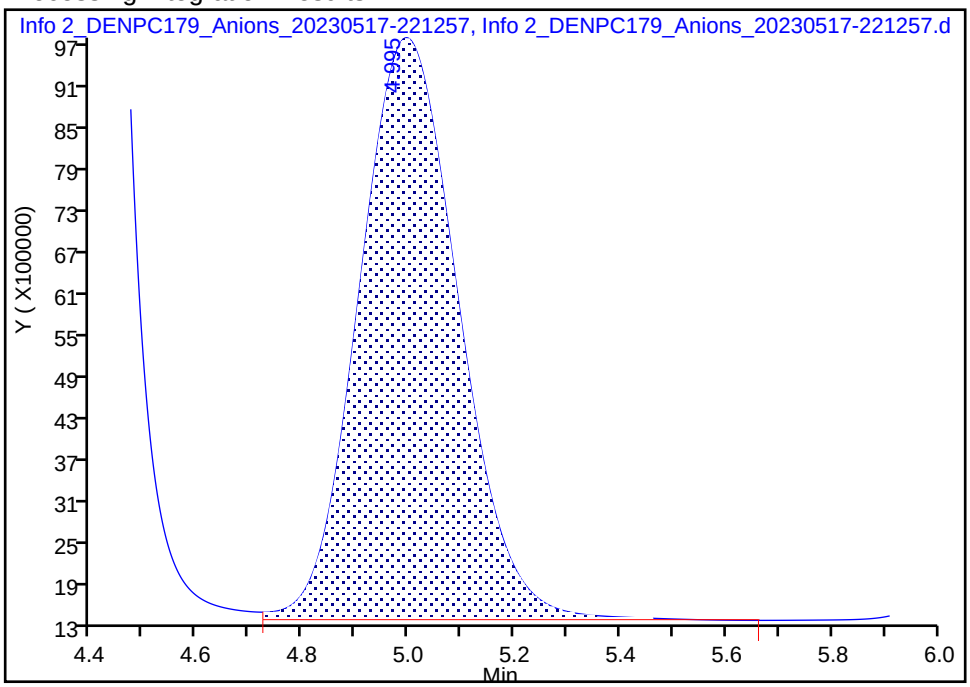
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0

Signal: 1

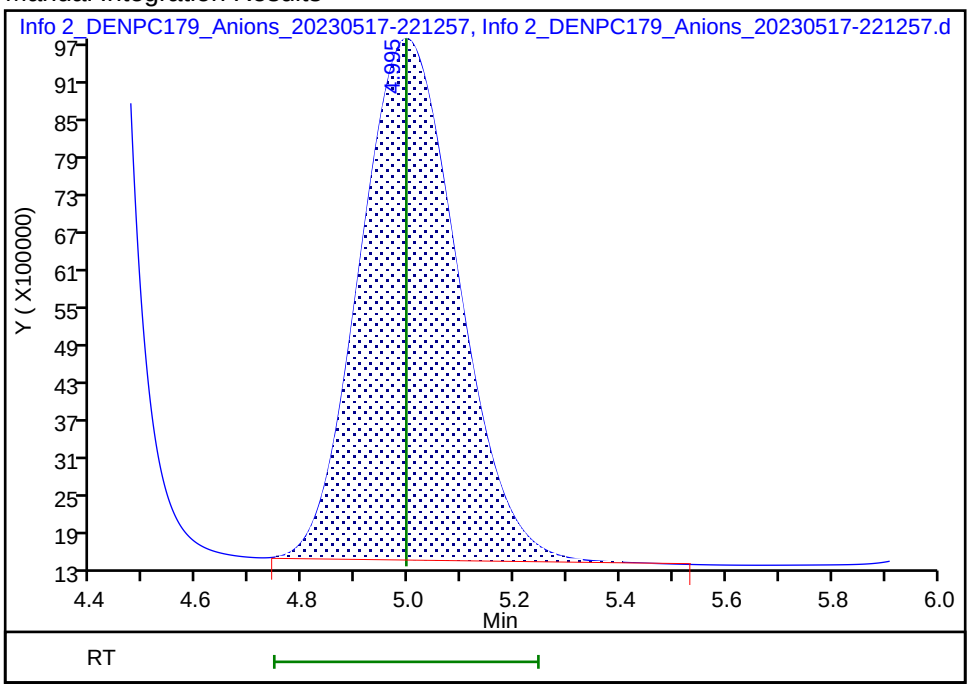
Processing Integration Results

RT: 5.00
Area: 110451141
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 5.00
Area: 107427468
Amount: 2.343857
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:28:20 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-222
Lims ID: ccb
Client ID:
Sample Type: CCB
Inject. Date: 17-May-2023 22:13:00 ALS Bottle#: 0 Worklist Smp#: 42
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-042
Misc. Info.: 280-0121544-042
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:33 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:28:45

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143				ND	
2 Chloride		4.310				ND	
3 Nitrite as N		4.995				ND	U
4 Bromide		6.233				ND	U
5 Nitrate as N		6.907				ND	
6 Orthophosphate as P	9.127	9.110	0.017	5083465		-0.2789	
7 Sulfate	10.278	10.285	-0.007	855050		NC	M

QC Flag Legend

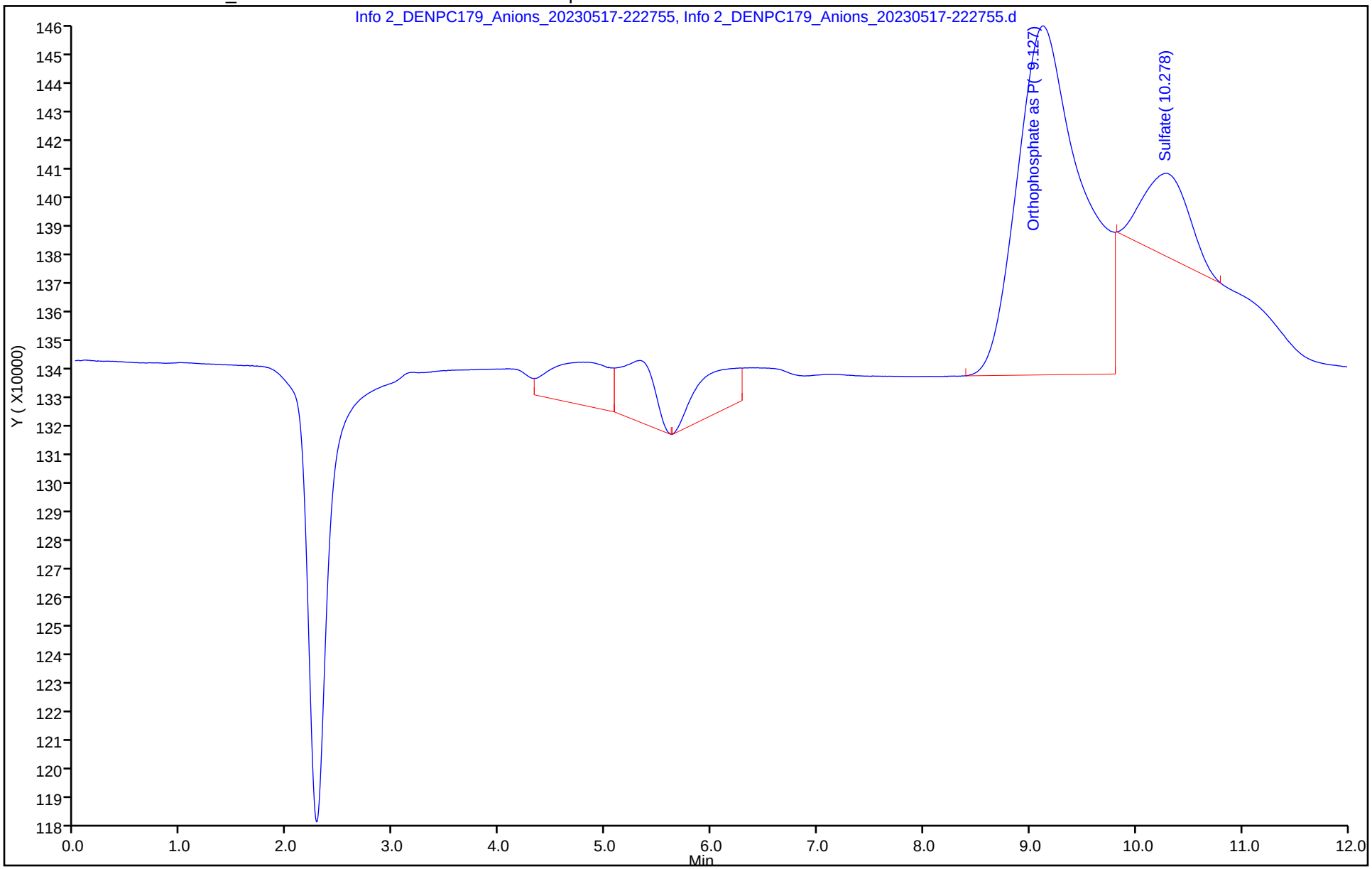
Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 18-May-2023 10:40:34 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-222755.d

Injection Date:	17-May-2023 22:13:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ccb			Worklist Smp#:	42
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



User Disabled Compound Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-222

Injection Date: 17-May-2023 22:13:00 Instrument ID: WC_IonChrom10

Lims ID: ccb

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 42

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

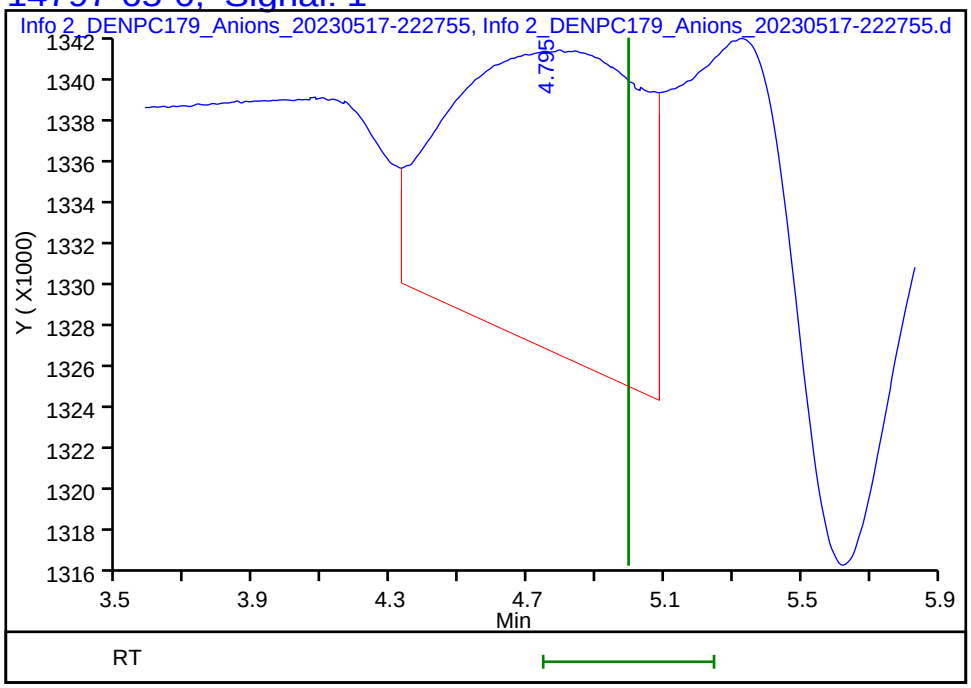
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0, Signal: 1

RT: 4.80

Response: 563199

Amount: 0



Reviewer: LVW8, 18-May-2023 10:28:45

Audit Action: Manually Integrated Audit Reason:

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-225
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 17-May-2023 22:42:00 ALS Bottle#: 0 Worklist Smp#: 44
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-044
Misc. Info.: 280-0121544-044
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:33 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:29:28

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	ND	
2 Chloride	4.312	4.310	0.002	924949235	NC	NC	M
3 Nitrite as N	4.998	4.995	0.003	107096294	2.50	2.34	M
4 Bromide	6.138	6.233	-0.095	17926460	NC	NC	
5 Nitrate as N	6.898	6.907	-0.009	107530503	2.50	2.38	M
6 Orthophosphate as P	9.040	9.110	-0.070	54590258	2.50	2.06	
7 Sulfate	10.215	10.285	-0.070	652974256	NC	NC	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

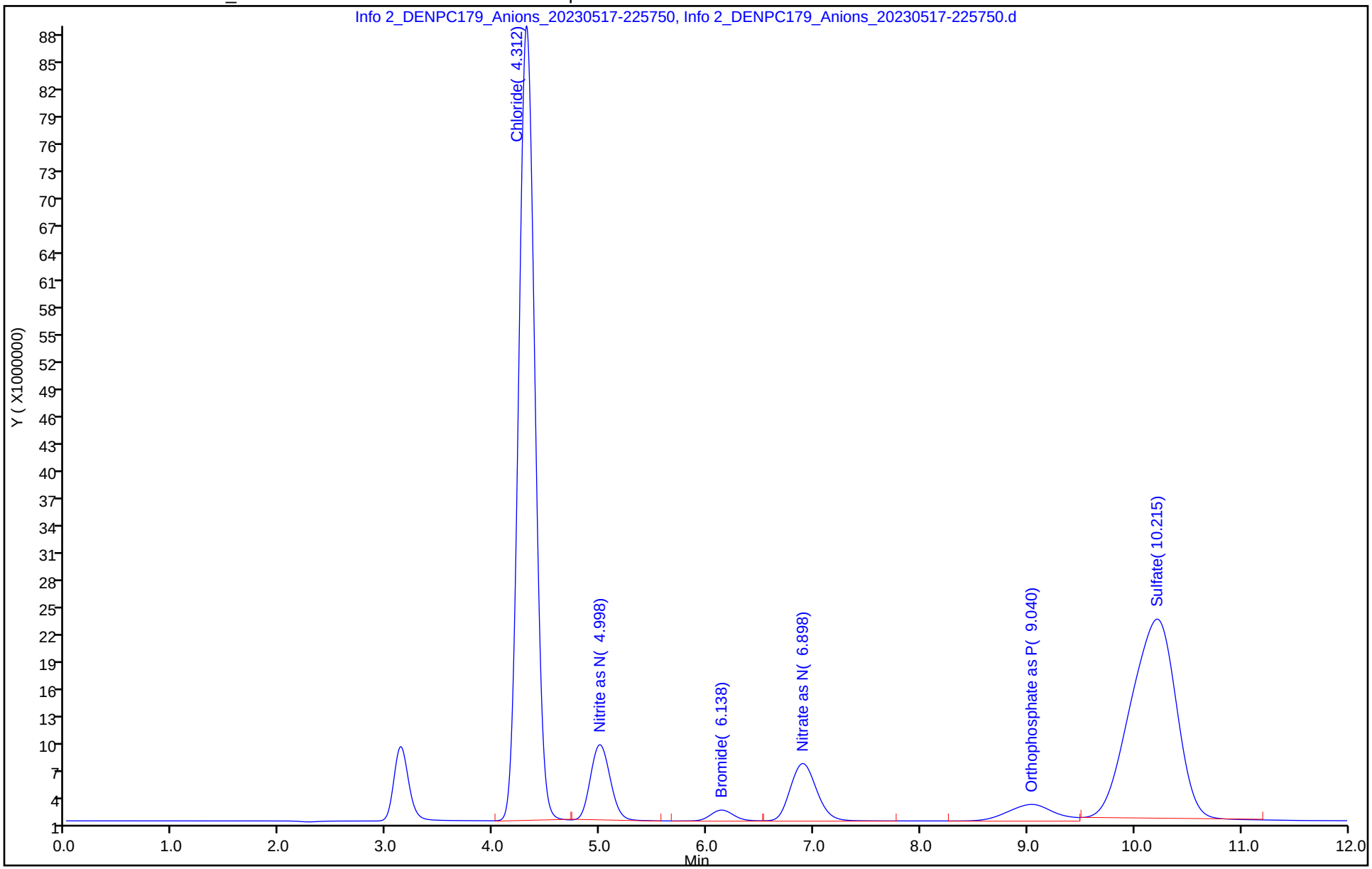
Reagents:

IC LCS_01954 Amount Added: 10.00 Units: mL

Report Date: 18-May-2023 10:40:36 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-225750.d				
Injection Date:	17-May-2023 22:42:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	lcs			Worklist Smp#:	44
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-225

Injection Date: 17-May-2023 22:42:00 Instrument ID: WC_IonChrom10

Lims ID: lcs

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 44

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

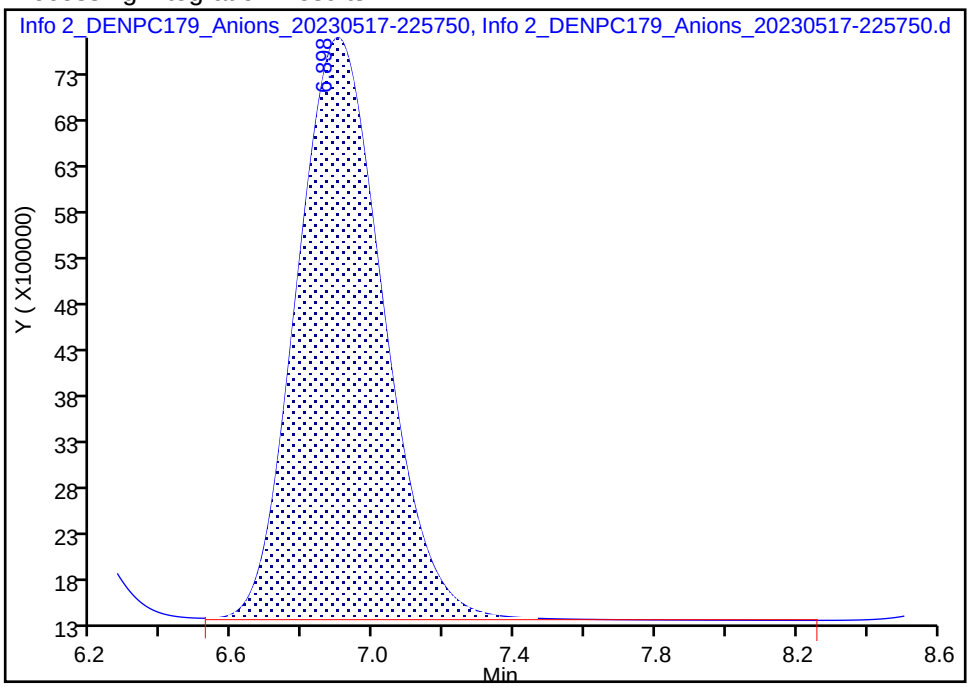
Column: Detector Info 2_091554_1

5 Nitrate as N, CAS: 14797-55-8

Signal: 1

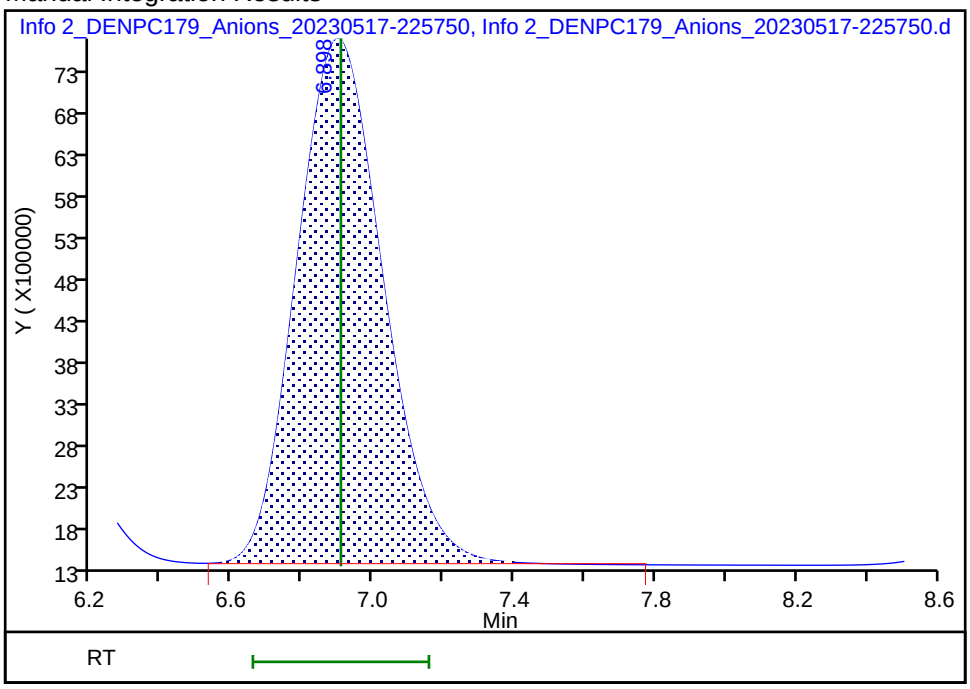
Processing Integration Results

RT: 6.90
Area: 108569546
Amount: 2.402641
Amount Units: ug/ml



Manual Integration Results

RT: 6.90
Area: 107530503
Amount: 2.379988
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:29:19 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

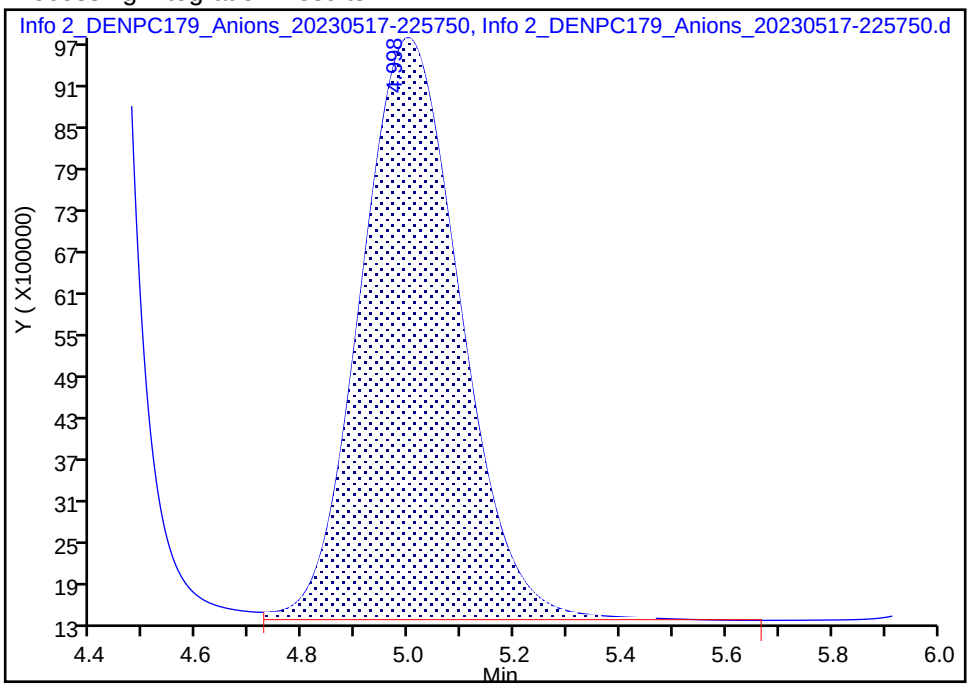
Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-225
Injection Date: 17-May-2023 22:42:00 Instrument ID: WC_IonChrom10
Lims ID: lcs
Client ID:
Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 44
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: Anions_IC10 Limit Group: Wet - Anions
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0

Signal: 1

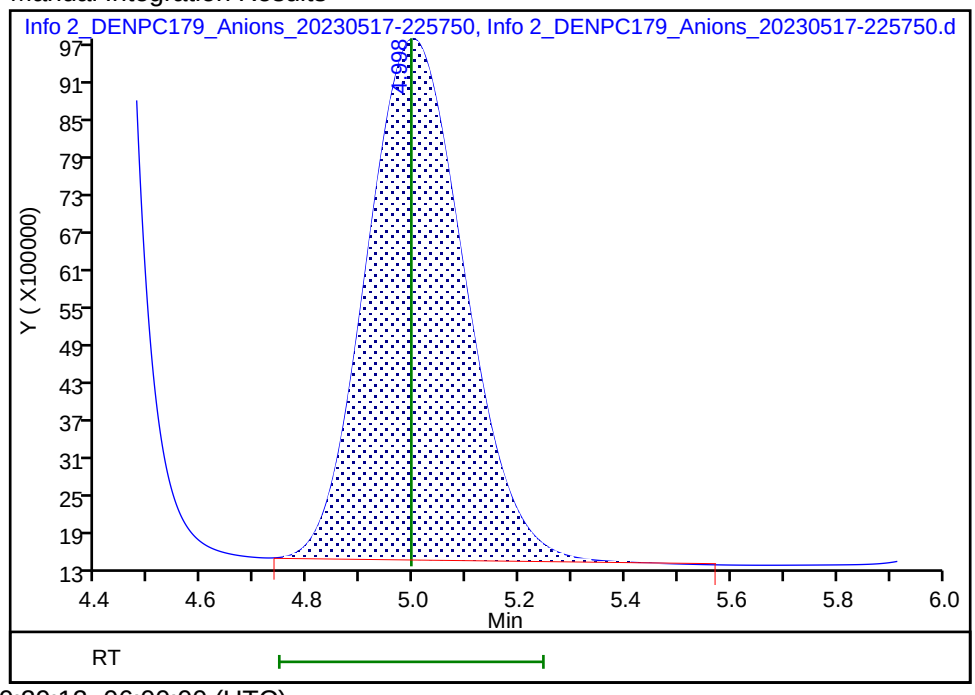
Processing Integration Results

RT: 5.00
Area: 109975142
Amount: 2.398789
Amount Units: ug/ml



Manual Integration Results

RT: 5.00
Area: 107096294
Amount: 2.336716
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:29:12 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-231
Lims ID: lcsd
Client ID:
Sample Type: LCSD
Inject. Date: 17-May-2023 22:57:00 ALS Bottle#: 0 Worklist Smp#: 45
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-045
Misc. Info.: 280-0121544-045
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:33 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:29:48

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	ND	
2 Chloride	4.312	4.310	0.002	926762436	NC	NC	M
3 Nitrite as N	4.998	4.995	0.003	105643850	2.50	2.31	M
4 Bromide	6.143	6.233	-0.090	18053368	NC	NC	
5 Nitrate as N	6.902	6.907	-0.005	107945779	2.50	2.39	M
6 Orthophosphate as P	9.042	9.110	-0.068	58574366	2.50	2.25	
7 Sulfate	10.218	10.285	-0.067	653554345	NC	NC	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

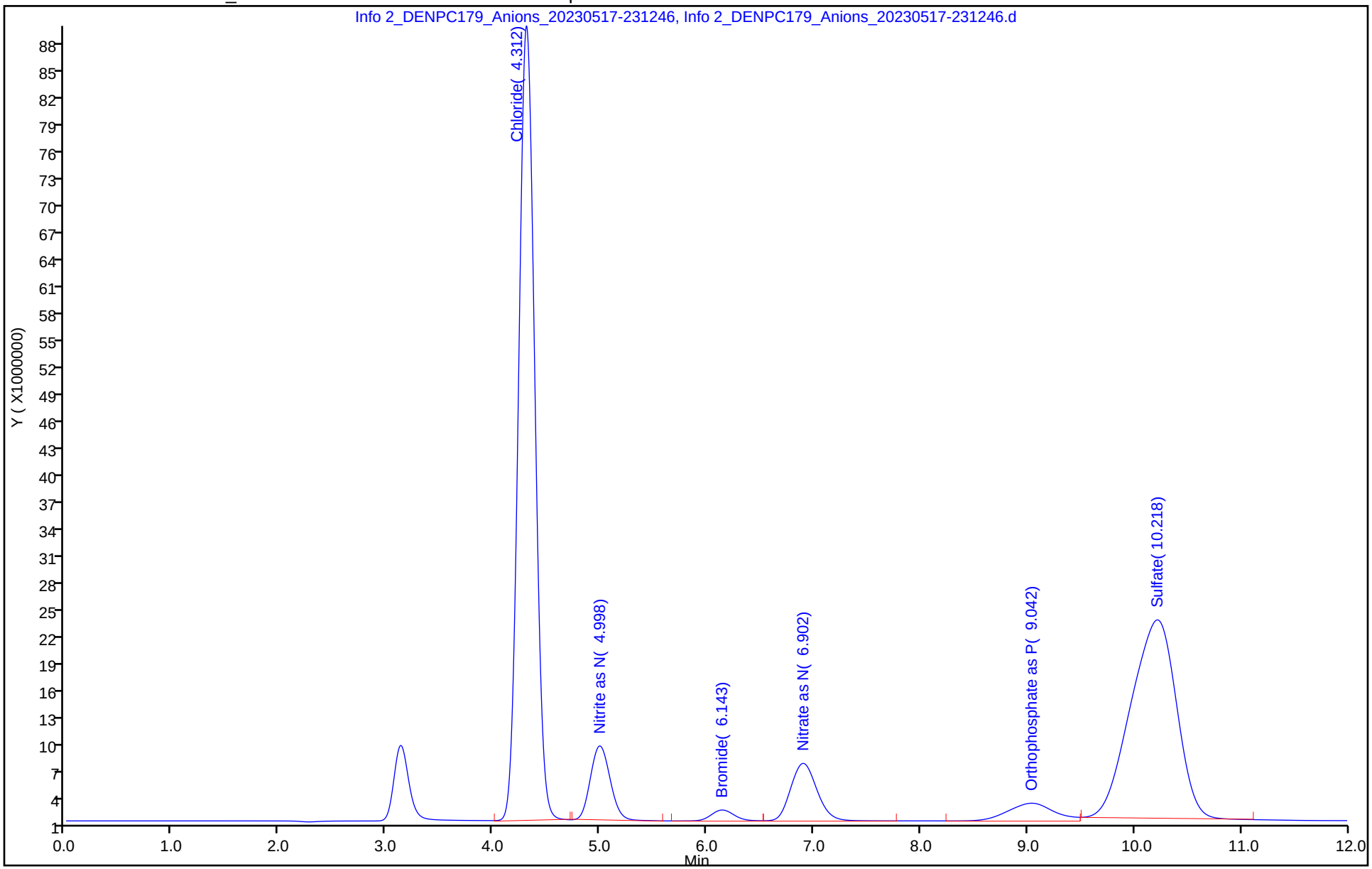
Reagents:

IC LCS_01954 Amount Added: 10.00 Units: mL

Report Date: 18-May-2023 10:40:36 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-231246.d				
Injection Date:	17-May-2023 22:57:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	lcsd			Worklist Smp#:	45
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-231

Injection Date: 17-May-2023 22:57:00 Instrument ID: WC_IonChrom10

Lims ID: lcsd

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 45

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

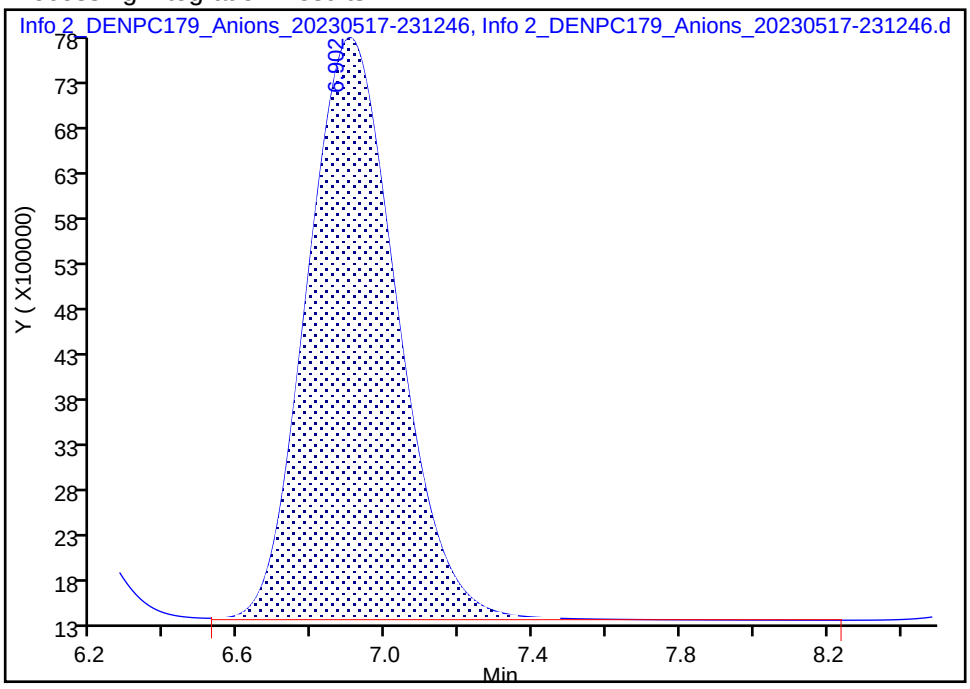
Column: Detector Info 2_091554_1

5 Nitrate as N, CAS: 14797-55-8

Signal: 1

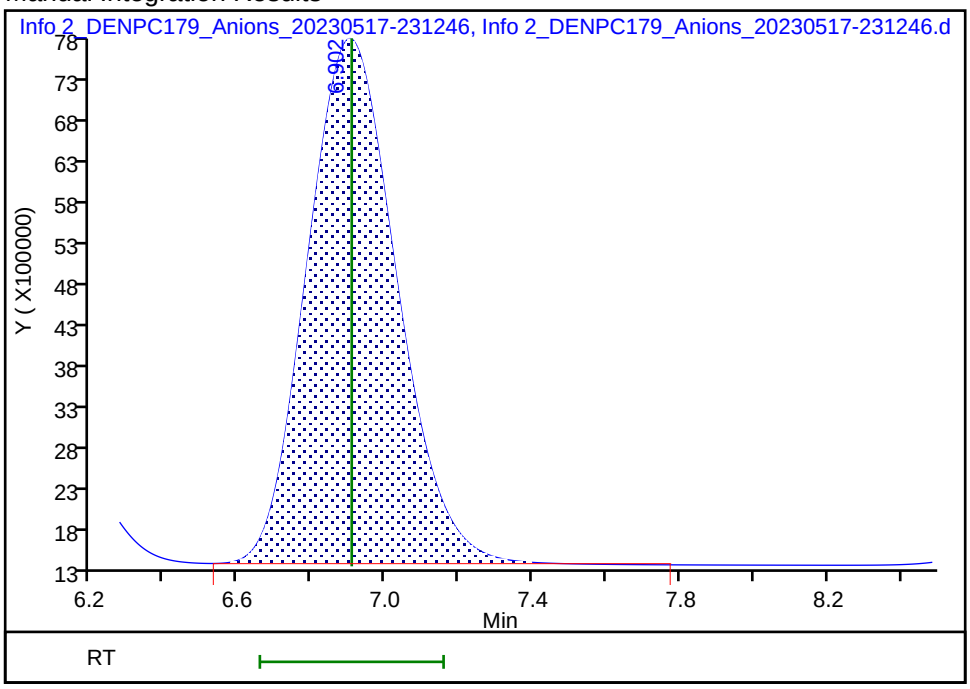
Processing Integration Results

RT: 6.90
Area: 109109819
Amount: 2.414420
Amount Units: ug/ml



Manual Integration Results

RT: 6.90
Area: 107945779
Amount: 2.389042
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:29:42 -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\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-231

Injection Date: 17-May-2023 22:57:00 Instrument ID: WC_IonChrom10

Lims ID: lcsd

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 45

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

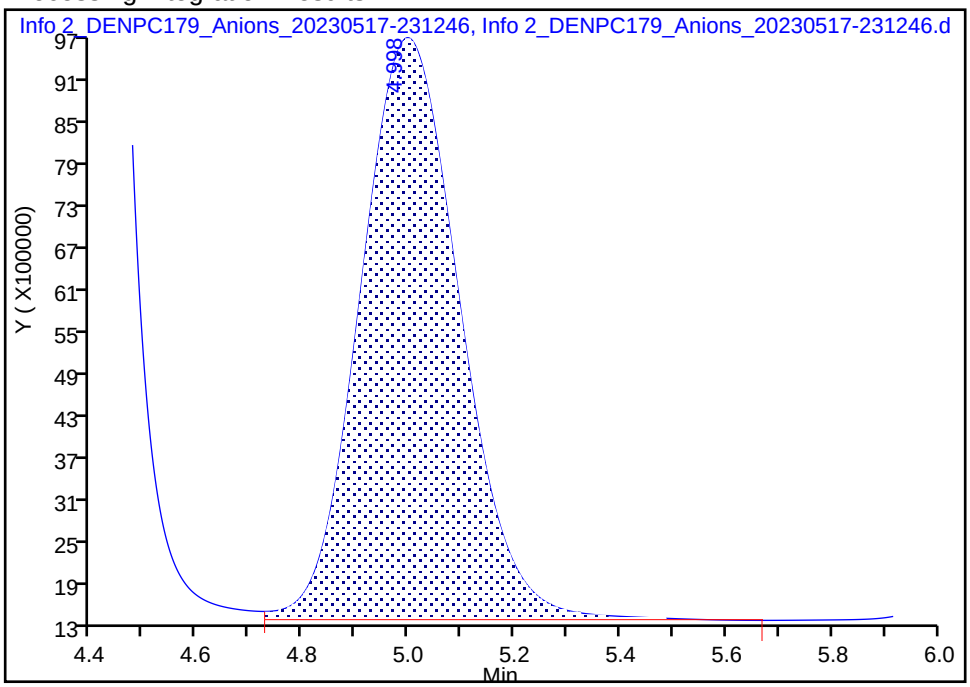
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0

Signal: 1

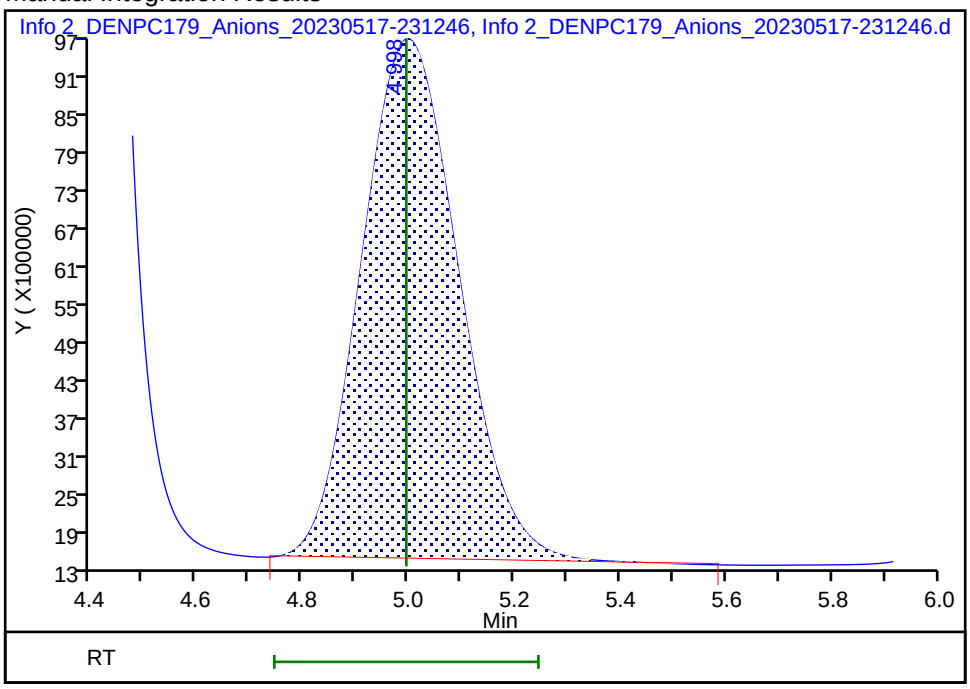
Processing Integration Results

RT: 5.00
Area: 108629929
Amount: 2.369784
Amount Units: ug/ml



Manual Integration Results

RT: 5.00
Area: 105643850
Amount: 2.305399
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:29:35 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-232
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 17-May-2023 23:12:00 ALS Bottle#: 0 Worklist Smp#: 46
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-046
Misc. Info.: 280-0121544-046
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:33 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:30:01

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143				ND	
2 Chloride		4.310				ND	
3 Nitrite as N		4.995				ND	U
4 Bromide		6.233				ND	U
5 Nitrate as N		6.907				ND	
6 Orthophosphate as P	9.130	9.110	0.020	7479220		-0.1656	
7 Sulfate	10.287	10.285	0.002	935888		NC	M

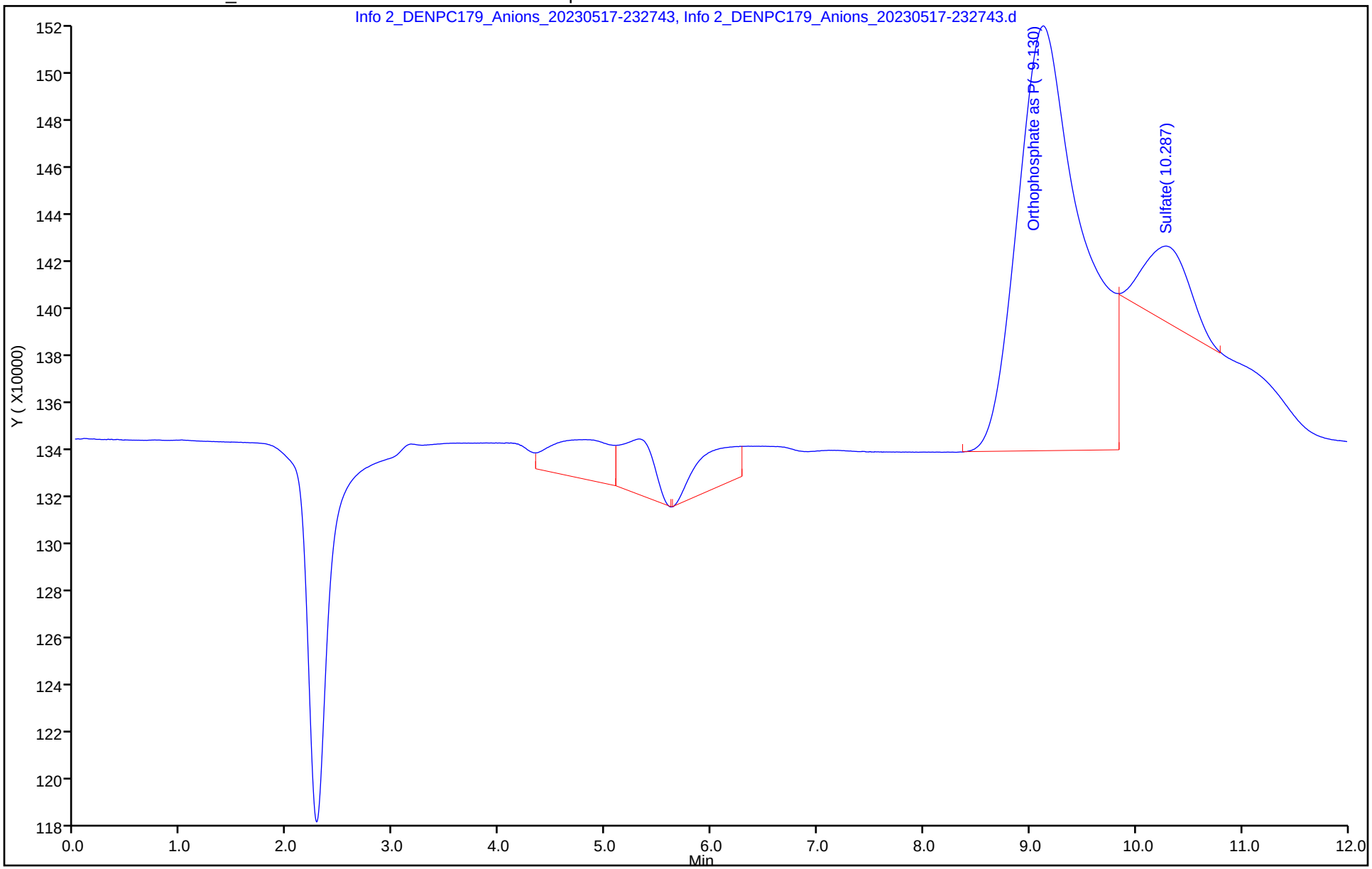
QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 18-May-2023 10:40:37 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-232743.d				
Injection Date:	17-May-2023 23:12:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	mb			Worklist Smp#:	46
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



User Disabled Compound Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-232

Injection Date: 17-May-2023 23:12:00 Instrument ID: WC_IonChrom10

Lims ID: mb

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 46

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

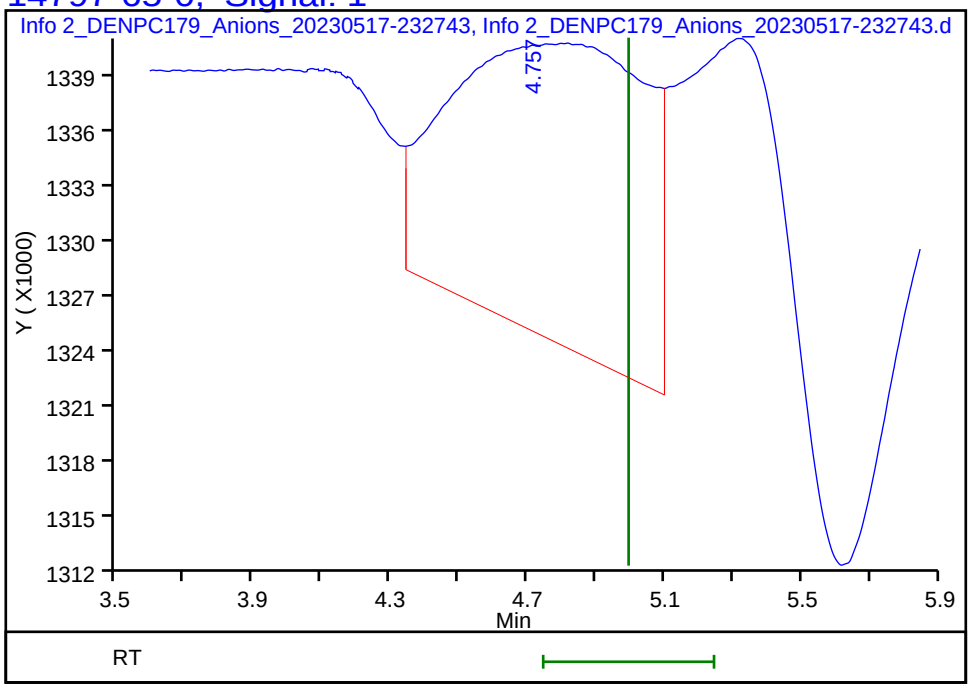
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0, Signal: 1

RT: 4.76

Response: 637208

Amount: 0.041281



Reviewer: LVW8, 18-May-2023 10:30:01

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-235
Lims ID: 280-176591-C-2
Client ID: WBGmw-006-230401-GW
Sample Type: Client
Inject. Date: 17-May-2023 23:42:00 ALS Bottle#: 0 Worklist Smp#: 48
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-048
Misc. Info.: 280-0121544-048
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:33 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:30:41

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	
2 Chloride	4.305	4.310	-0.005	14338602	NC	M
3 Nitrite as N		4.995			ND	
4 Bromide	6.253	6.233	0.020	3167014	NC	
5 Nitrate as N		6.907			ND	
6 Orthophosphate as P	9.223	9.110	0.113	2822761	-0.3857	
7 Sulfate	10.262	10.285	-0.023	334449537	NC	M

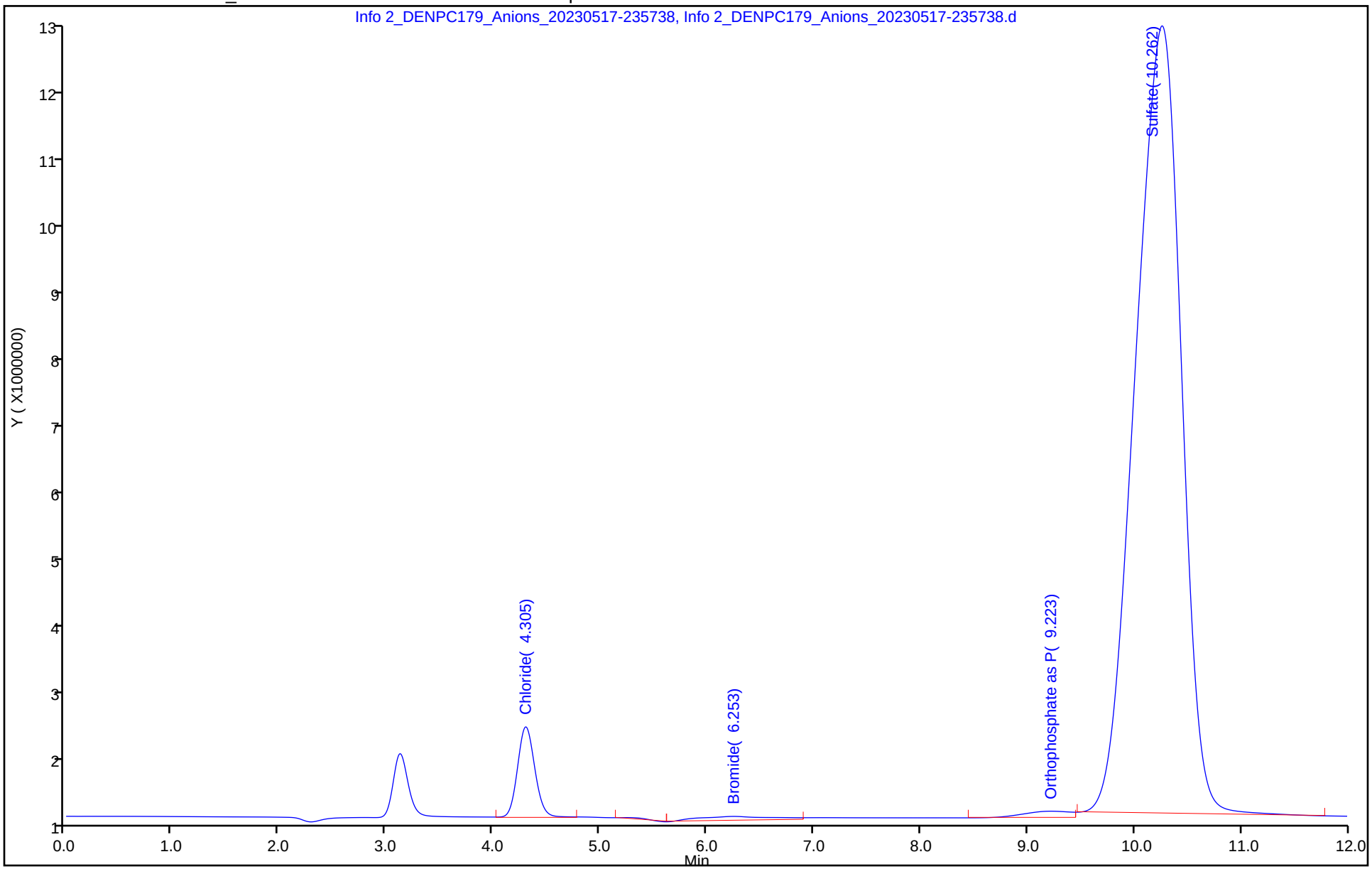
QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Report Date: 18-May-2023 10:40:39 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-235738.d				
Injection Date:	17-May-2023 23:42:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	280-176591-C-2	Lab Sample ID:	280-176591-2	Worklist Smp#:	48
Client ID:	WBGmw-006-230401-GW				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-004
Lims ID: 280-176591-C-7
Client ID: WBGMW-RBmw-018-2023
Sample Type: Client
Inject. Date: 18-May-2023 00:27:00 ALS Bottle#: 0 Worklist Smp#: 51
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-051
Misc. Info.: 280-0121544-051
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:33 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:31:18

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	
2 Chloride		4.310			ND	
3 Nitrite as N		4.995			ND	
4 Bromide		6.233			ND	U
5 Nitrate as N		6.907			ND	
6 Orthophosphate as P	9.148	9.110	0.038	2822705	-0.3857	
7 Sulfate	10.310	10.285	0.025	883585	NC	M

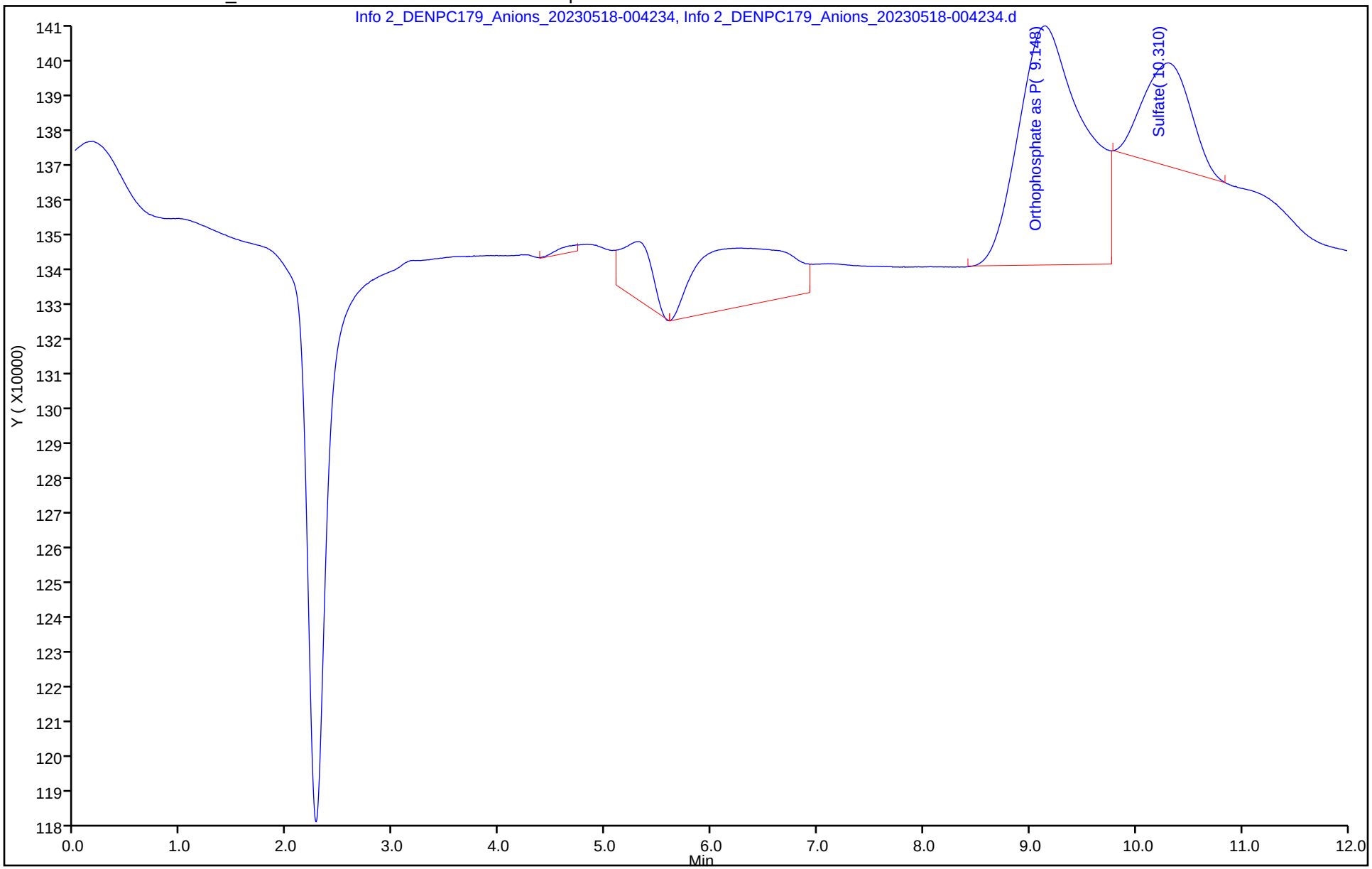
QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 18-May-2023 10:40:40 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-004234.d				
Injection Date:	18-May-2023 00:27:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	280-176591-C-7	Lab Sample ID:	280-176591-7	Worklist Smp#:	51
Client ID:	WBGMW-RBmw-018-2023				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-005
Lims ID: 280-176591-C-7 DU
Client ID:
Sample Type: DU
Inject. Date: 18-May-2023 00:42:00 ALS Bottle#: 0 Worklist Smp#: 52
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-052
Misc. Info.: 280-0121544-052
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:33 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:31:29

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143				ND	
2 Chloride		4.310				ND	
3 Nitrite as N		4.995				ND	
4 Bromide		6.233				ND	U
5 Nitrate as N		6.907				ND	
6 Orthophosphate as P	9.150	9.110	0.040	2344440		-0.4083	
7 Sulfate	10.302	10.285	0.017	981639		NC	M

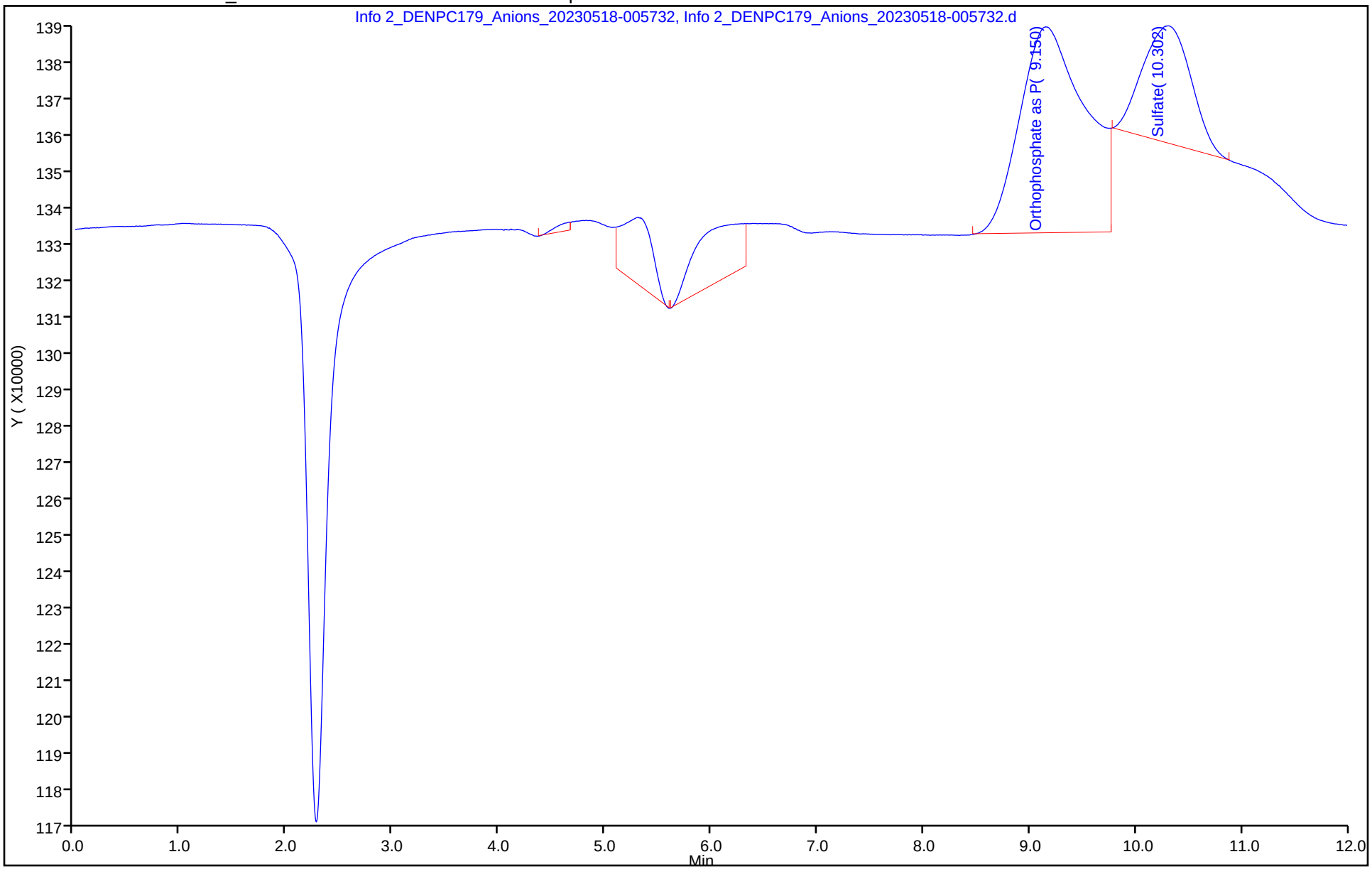
QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 18-May-2023 10:40:41 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-005732.d				
Injection Date:	18-May-2023 00:42:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	280-176591-C-7 DU			Worklist Smp#:	52
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



Report Date: 18-May-2023 10:40:41 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-011
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 18-May-2023 00:57:00 ALS Bottle#: 0 Worklist Smp#: 53
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-053
Misc. Info.: 280-0121544-053
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:41 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:31:52

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	ND	
2 Chloride	4.312	4.310	0.002	929645160	NC	NC	M
3 Nitrite as N	4.998	4.995	0.003	106362056	2.50	2.32	M
4 Bromide	6.143	6.233	-0.090	18044648	NC	NC	
5 Nitrate as N	6.900	6.907	-0.007	108329185	2.50	2.40	M
6 Orthophosphate as P	9.047	9.110	-0.063	58931655	2.50	2.27	
7 Sulfate	10.225	10.285	-0.060	659703887	NC	NC	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

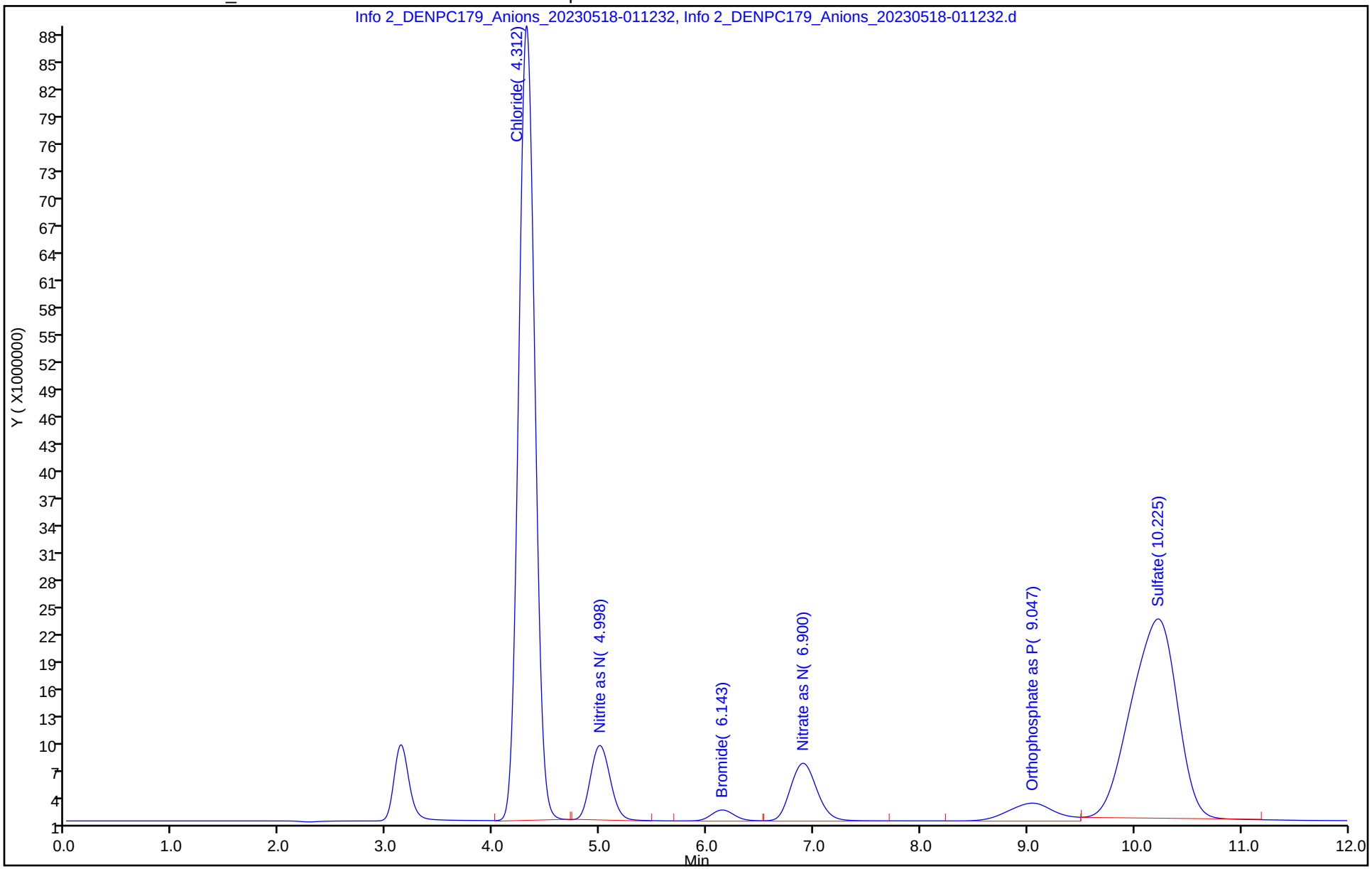
Reagents:

IC LCS_01954 Amount Added: 10.00 Units: mL

Report Date: 18-May-2023 10:40:41 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-011232.d				
Injection Date:	18-May-2023 00:57:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ccv			Worklist Smp#:	53
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-011

Injection Date: 18-May-2023 00:57:00 Instrument ID: WC_IonChrom10

Lims ID: ccv

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 53

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

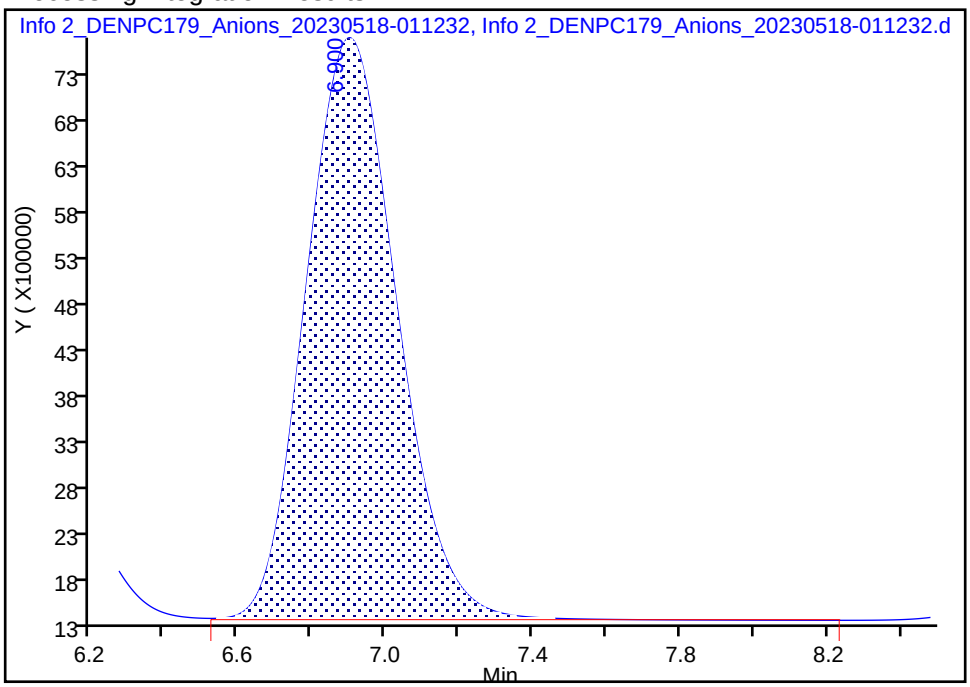
Column: Detector Info 2_091554_1

5 Nitrate as N, CAS: 14797-55-8

Signal: 1

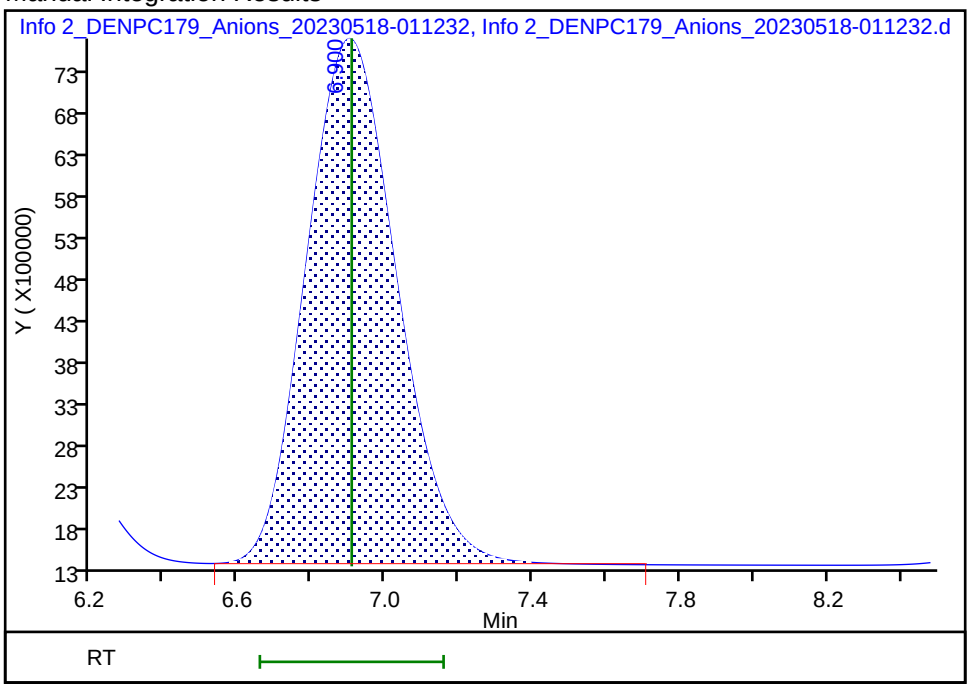
Processing Integration Results

RT: 6.90
Area: 109436958
Amount: 2.421553
Amount Units: ug/ml



Manual Integration Results

RT: 6.90
Area: 108329185
Amount: 2.397401
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:31:41 -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\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-011

Injection Date: 18-May-2023 00:57:00 Instrument ID: WC_IonChrom10

Lims ID: ccv

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 53

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

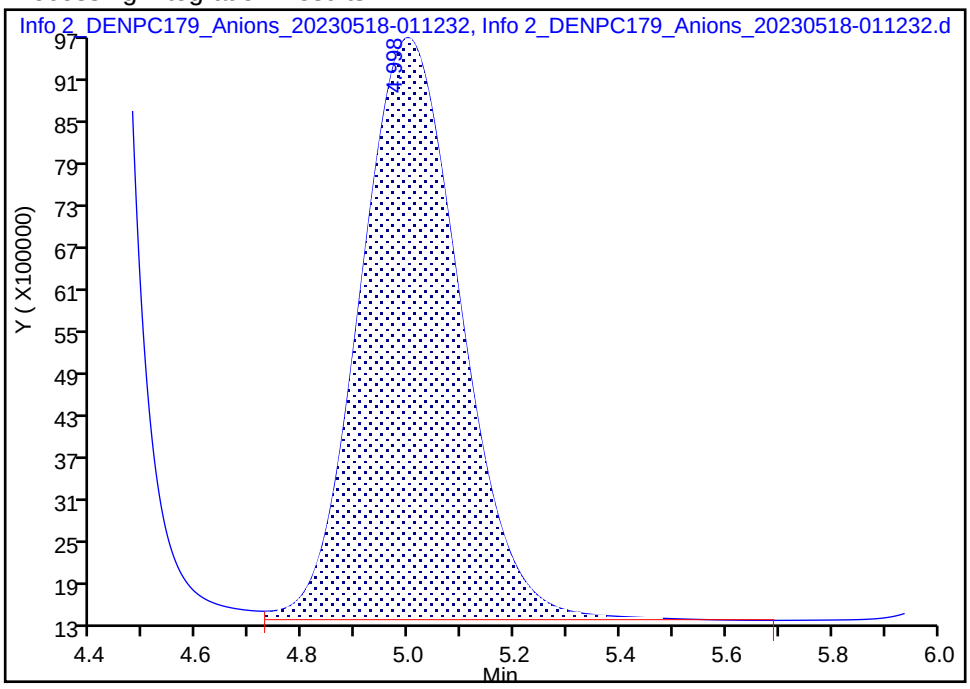
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0

Signal: 1

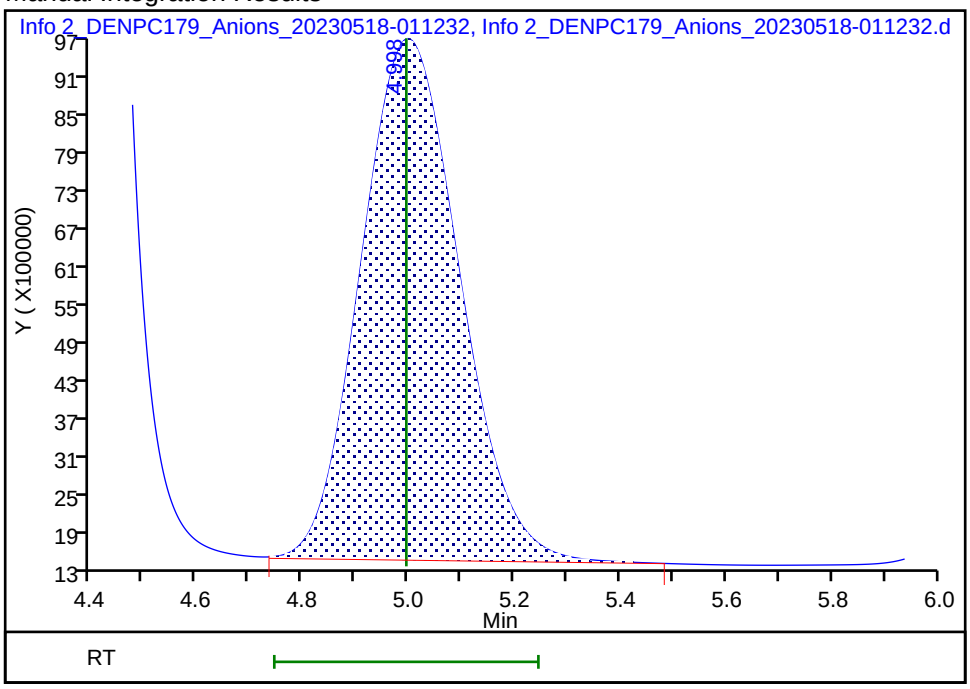
Processing Integration Results

RT: 5.00
Area: 109492602
Amount: 2.388384
Amount Units: ug/ml



Manual Integration Results

RT: 5.00
Area: 106362056
Amount: 2.320884
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:31:34 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-012
Lims ID: ccb
Client ID:
Sample Type: CCB
Inject. Date: 18-May-2023 01:12:00 ALS Bottle#: 0 Worklist Smp#: 54
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-054
Misc. Info.: 280-0121544-054
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:41 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:32:04

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143				ND	
2 Chloride		4.310				ND	
3 Nitrite as N		4.995				ND	U
4 Bromide		6.233				ND	U
5 Nitrate as N		6.907				ND	
6 Orthophosphate as P	9.132	9.110	0.022	7023581		-0.1872	
7 Sulfate	10.290	10.285	0.005	917804		NC	M

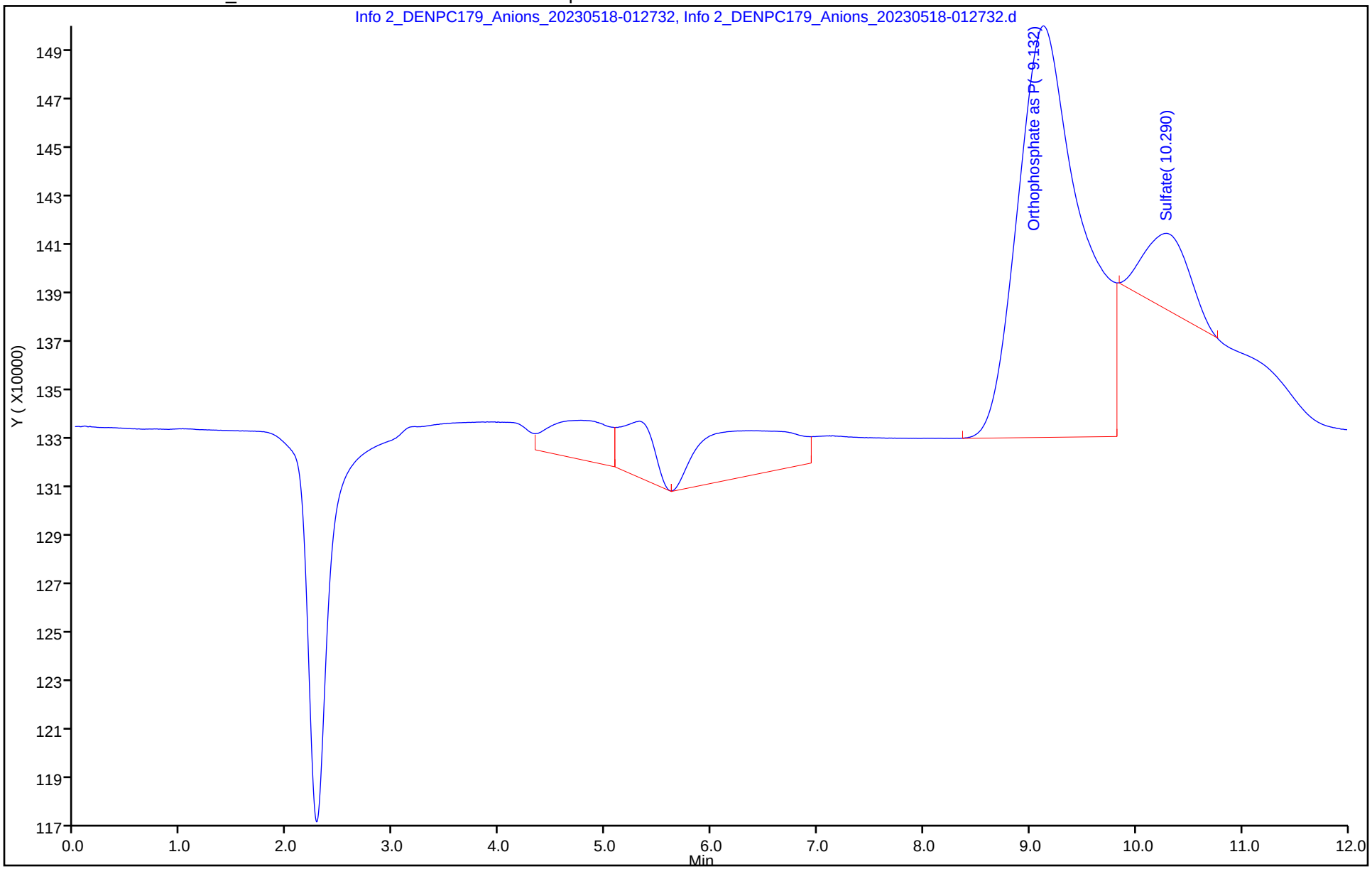
QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 18-May-2023 10:40:42 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-012732.d				
Injection Date:	18-May-2023 01:12:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ccb			Worklist Smp#:	54
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



User Disabled Compound Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-012

Injection Date: 18-May-2023 01:12:00 Instrument ID: WC_IonChrom10

Lims ID: ccb

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 54

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

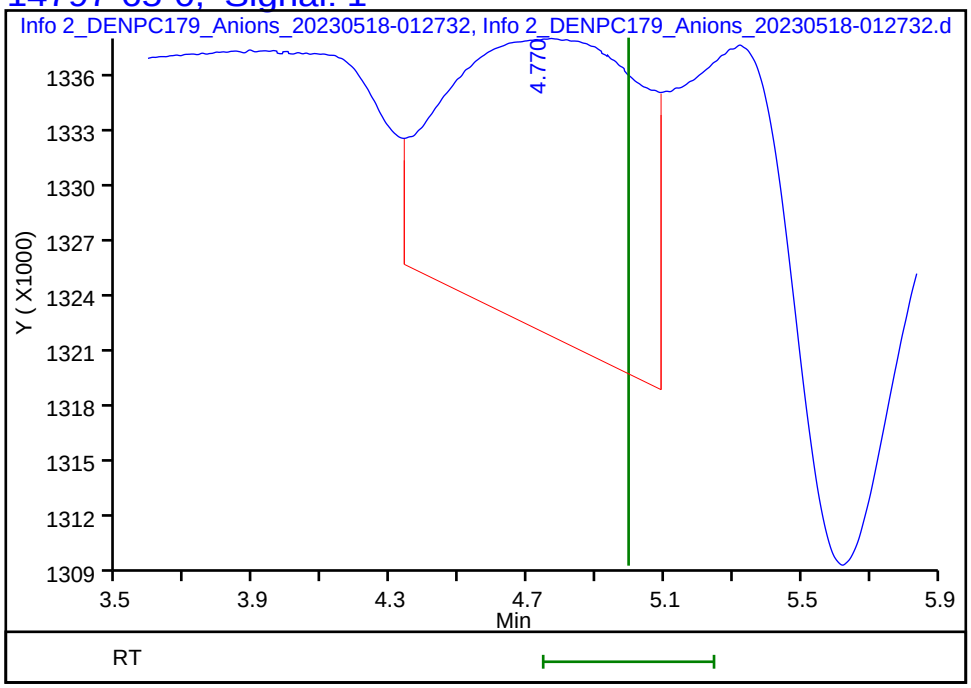
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0, Signal: 1

RT: 4.77

Response: 637018

Amount: 0.041277



Reviewer: LVW8, 18-May-2023 10:32:04

Audit Action: Manually Integrated Audit Reason:

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-014
Lims ID: 280-176591-C-7 MS
Client ID:
Sample Type: MS
Inject. Date: 18-May-2023 01:27:00 ALS Bottle#: 0 Worklist Smp#: 55
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-055
Misc. Info.: 280-0121544-055
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:41 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:32:25

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	ND	
2 Chloride	4.313	4.310	0.003	964149887	NC	NC	M
3 Nitrite as N	4.995	4.995	0.000	212181370	5.00	4.60	M
4 Bromide	6.142	6.233	-0.091	36907126	NC	NC	
5 Nitrate as N	6.883	6.907	-0.024	229730215	5.00	5.04	EM
6 Orthophosphate as P	9.037	9.110	-0.073	110283127	5.00	4.69	
7 Sulfate	10.228	10.285	-0.057	676881137	NC	NC	M

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND
- E - Exceeded Maximum Amount

Review Flags
- M - Manually Integrated

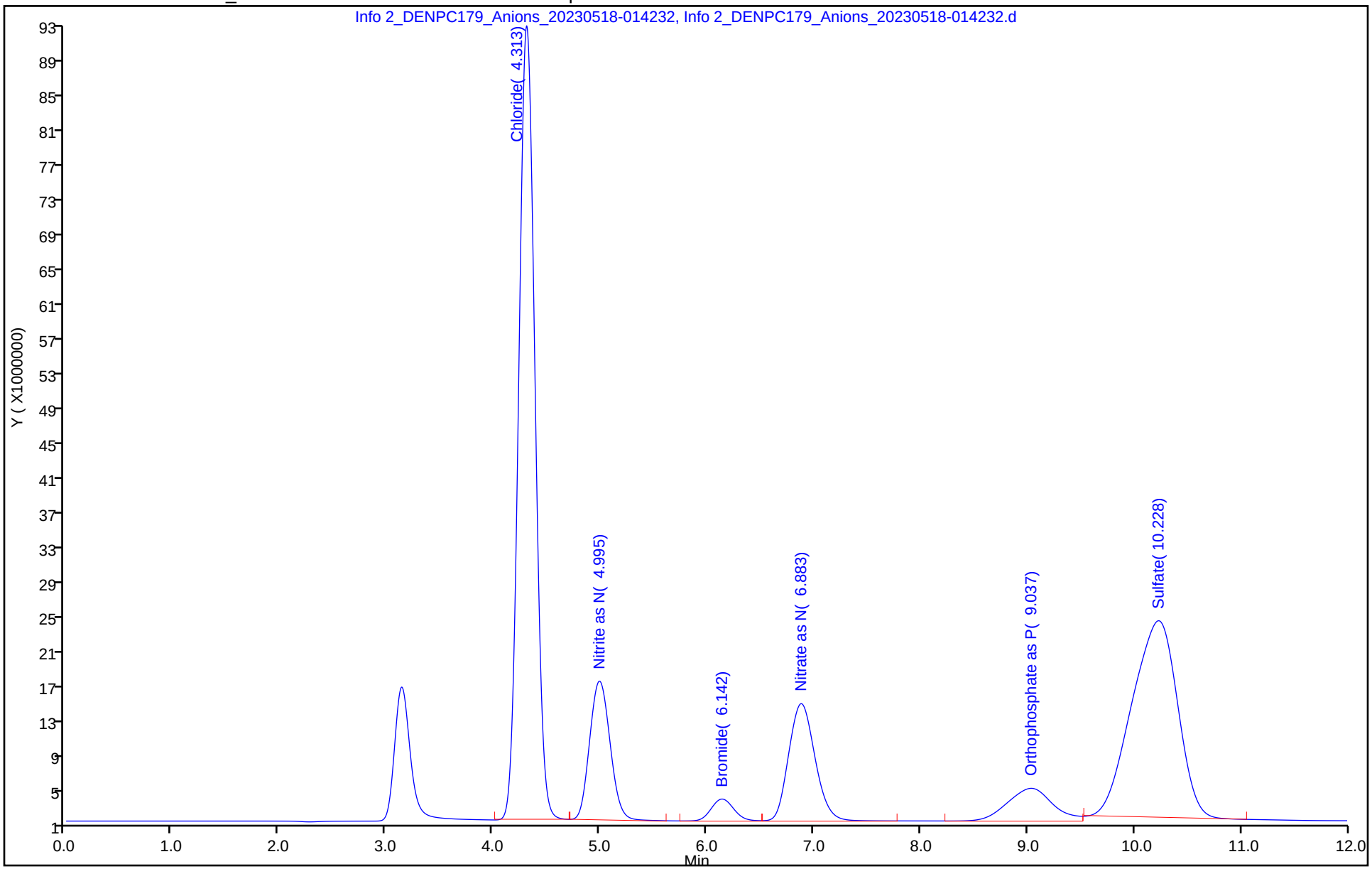
Reagents:

ICMS/MSD WEEK_00819 Amount Added: 0.10 Units: mL

Report Date: 18-May-2023 10:40:43 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-014232.d				
Injection Date:	18-May-2023 01:27:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	280-176591-C-7 MS			Worklist Smp#:	55
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-014

Injection Date: 18-May-2023 01:27:00 Instrument ID: WC_IonChrom10

Lims ID: 280-176591-C-7 MS

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 55

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

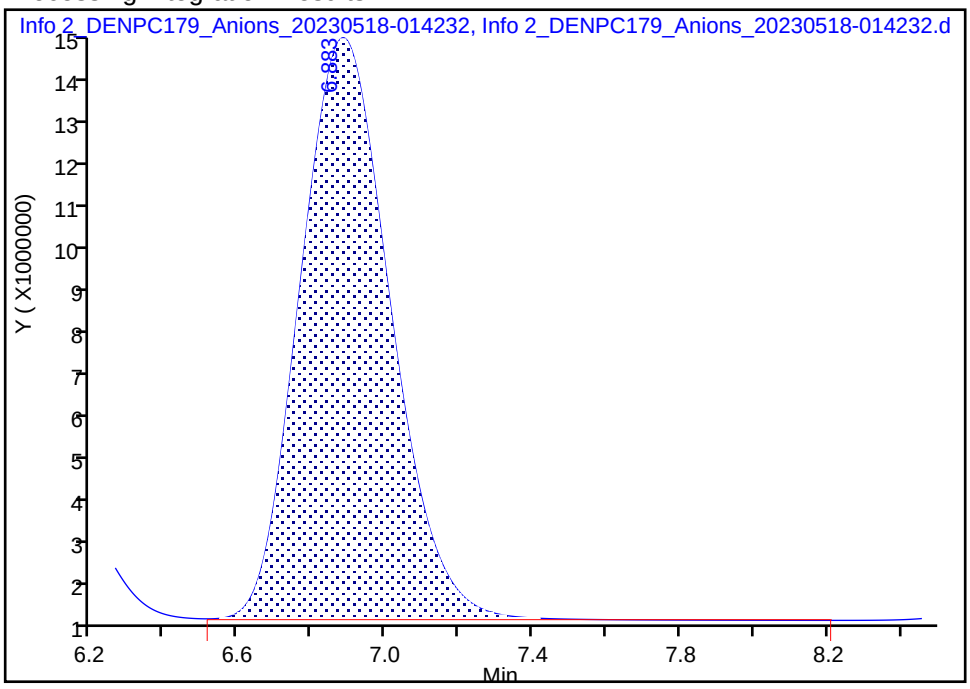
Column: Detector Info 2_091554_1

5 Nitrate as N, CAS: 14797-55-8

Signal: 1

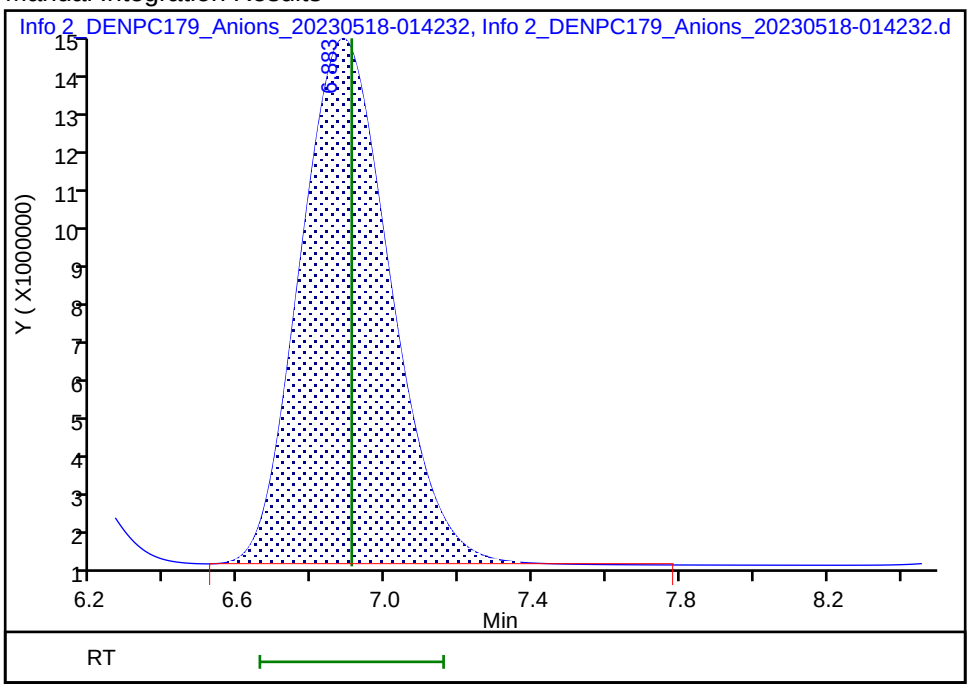
Processing Integration Results

RT: 6.88
Area: 231265451
Amount: 5.077638
Amount Units: ug/ml



Manual Integration Results

RT: 6.88
Area: 229730215
Amount: 5.044167
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:32:18 -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\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-014

Injection Date: 18-May-2023 01:27:00 Instrument ID: WC_IonChrom10

Lims ID: 280-176591-C-7 MS

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 55

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

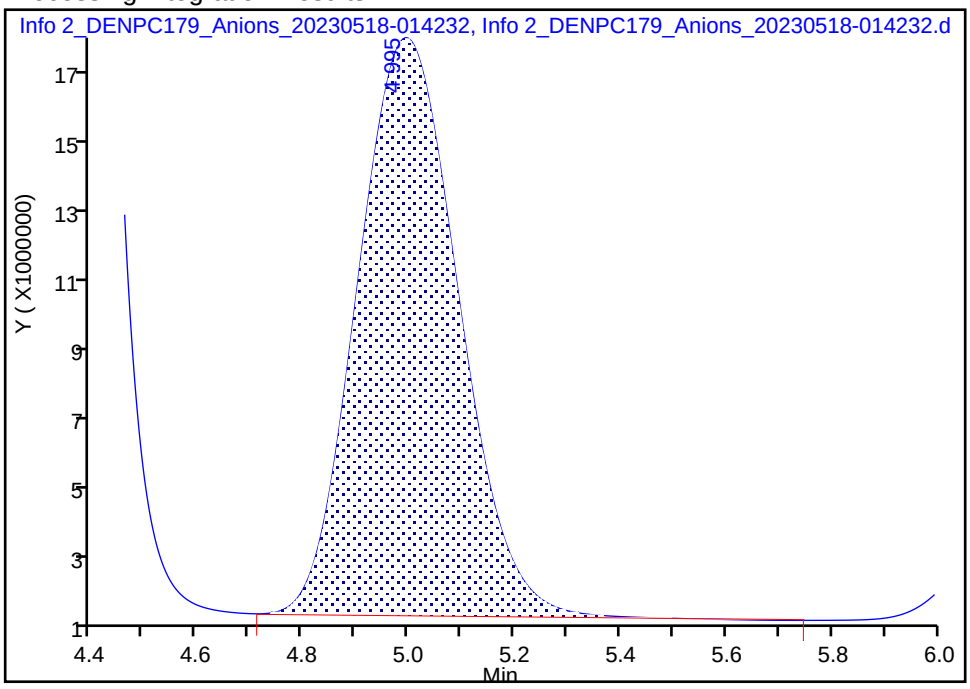
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0

Signal: 1

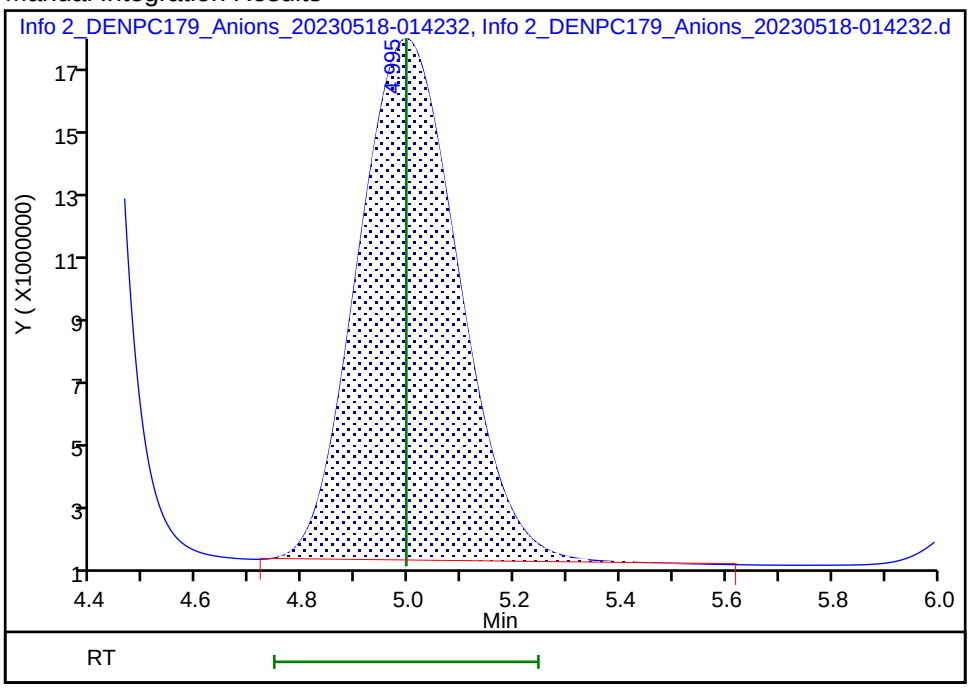
Processing Integration Results

RT: 5.00
Area: 213287744
Amount: 4.626380
Amount Units: ug/ml



Manual Integration Results

RT: 5.00
Area: 212181370
Amount: 4.602525
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:32:11 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-015
Lims ID: 280-176591-C-7 MSD
Client ID:
Sample Type: MSD
Inject. Date: 18-May-2023 01:42:00 ALS Bottle#: 0 Worklist Smp#: 56
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-056
Misc. Info.: 280-0121544-056
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:41 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:32:45

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	ND	
2 Chloride	4.310	4.310	0.000	965184232	NC	NC	M
3 Nitrite as N	4.992	4.995	-0.003	212123636	5.00	4.60	M
4 Bromide	6.142	6.233	-0.091	36953962	NC	NC	
5 Nitrate as N	6.882	6.907	-0.025	230038638	5.00	5.05	EM
6 Orthophosphate as P	9.033	9.110	-0.077	111037726	5.00	4.73	
7 Sulfate	10.227	10.285	-0.058	676182546	NC	NC	M

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND
- E - Exceeded Maximum Amount

Review Flags
- M - Manually Integrated

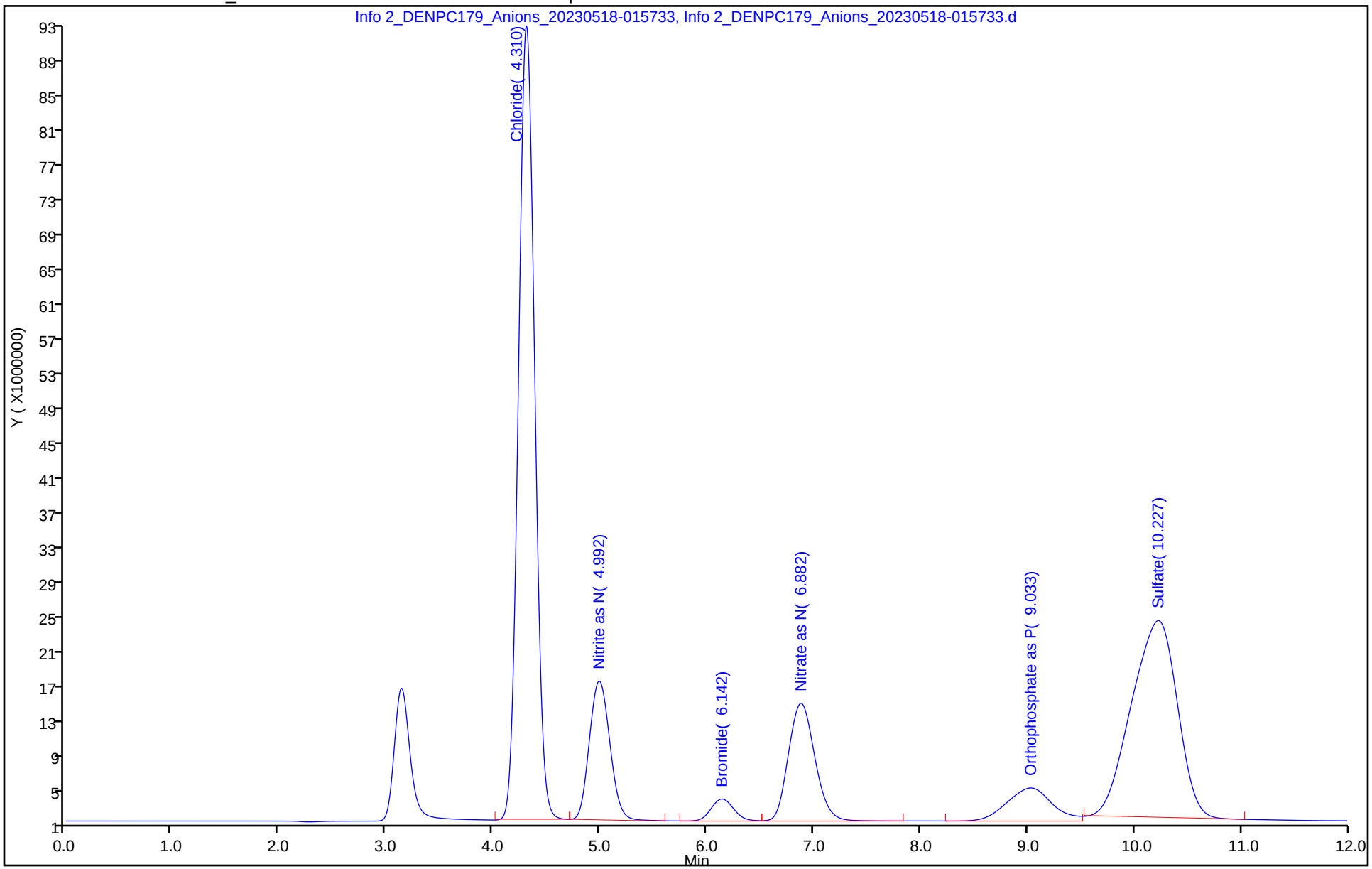
Reagents:

ICMS/MSD WEEK_00819 Amount Added: 0.10 Units: mL

Report Date: 18-May-2023 10:40:43 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-015733.d				
Injection Date:	18-May-2023 01:42:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	280-176591-C-7 MSD			Worklist Smp#:	56
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-015

Injection Date: 18-May-2023 01:42:00 Instrument ID: WC_IonChrom10

Lims ID: 280-176591-C-7 MSD

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 56

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

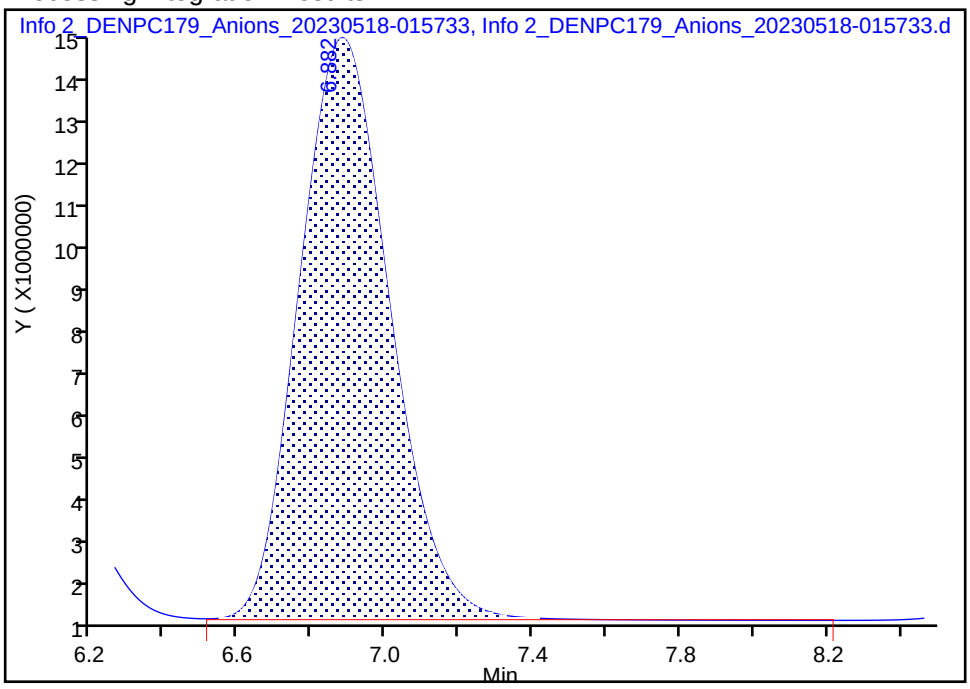
Column: Detector Info 2_091554_1

5 Nitrate as N, CAS: 14797-55-8

Signal: 1

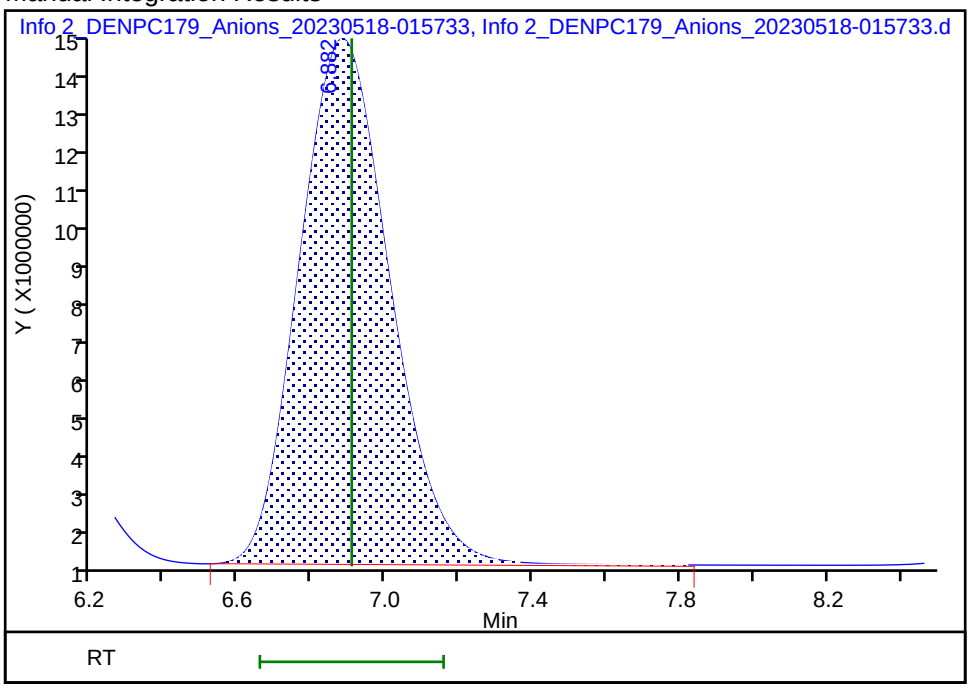
Processing Integration Results

RT: 6.88
Area: 231567346
Amount: 5.084220
Amount Units: ug/ml



Manual Integration Results

RT: 6.88
Area: 230038638
Amount: 5.050892
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:32:38 -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\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-015

Injection Date: 18-May-2023 01:42:00 Instrument ID: WC_IonChrom10

Lims ID: 280-176591-C-7 MSD

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 56

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

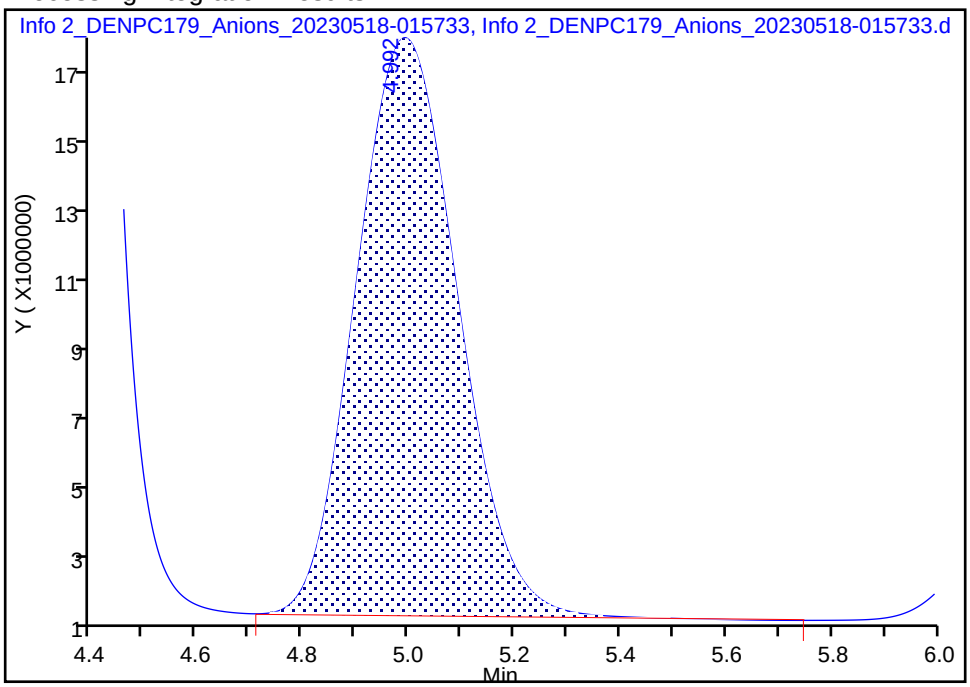
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0

Signal: 1

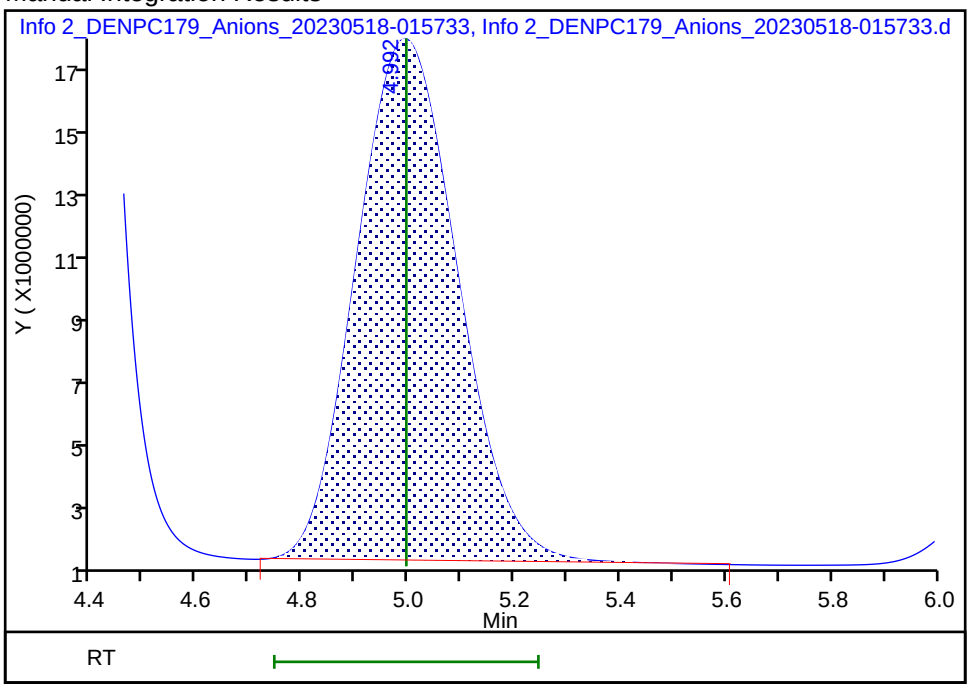
Processing Integration Results

RT: 4.99
Area: 213361499
Amount: 4.627970
Amount Units: ug/ml



Manual Integration Results

RT: 4.99
Area: 212123636
Amount: 4.601280
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:32:32 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Report Date: 18-May-2023 10:40:50 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-041
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 18-May-2023 03:57:00 ALS Bottle#: 0 Worklist Smp#: 65
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-065
Misc. Info.: 280-0121544-065
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:50 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:38:37

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	ND	
2 Chloride	4.312	4.310	0.002	928387494	NC	NC	M
3 Nitrite as N	5.000	4.995	0.005	107784896	2.50	2.35	M
4 Bromide	6.137	6.233	-0.096	17846244	NC	NC	
5 Nitrate as N	6.902	6.907	-0.005	107664826	2.50	2.38	M
6 Orthophosphate as P	9.037	9.110	-0.073	59737624	2.50	2.30	
7 Sulfate	10.217	10.285	-0.068	653007832	NC	NC	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

Reagents:

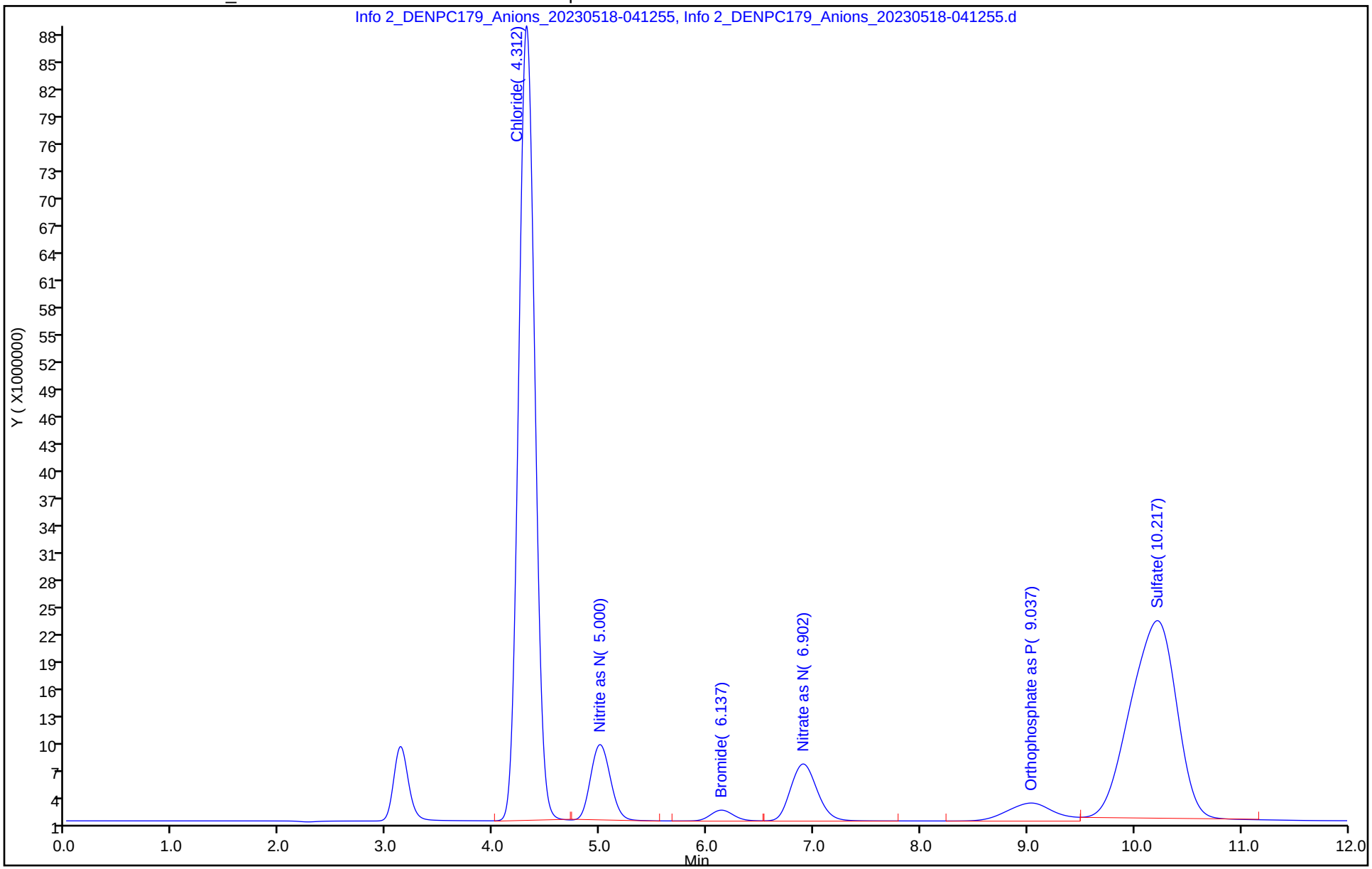
IC LCS_01954 Amount Added: 10.00 Units: mL

Report Date: 18-May-2023 10:40:50 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-041255.d

Injection Date:	18-May-2023 03:57:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ccv			Worklist Smp#:	65
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-041

Injection Date: 18-May-2023 03:57:00 Instrument ID: WC_IonChrom10

Lims ID: ccv

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 65

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

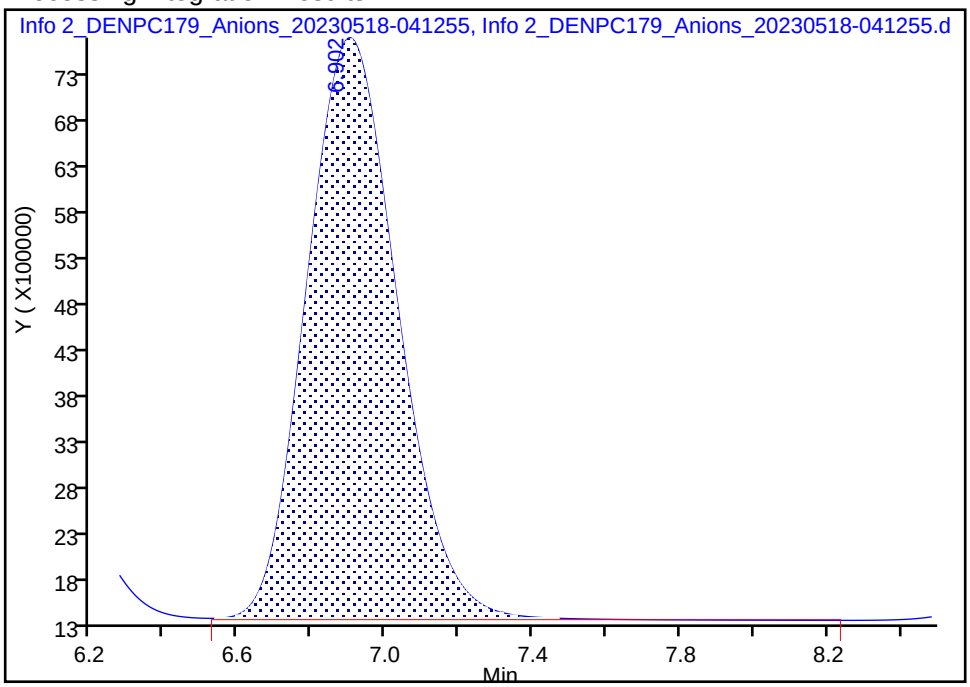
Column: Detector Info 2_091554_1

5 Nitrate as N, CAS: 14797-55-8

Signal: 1

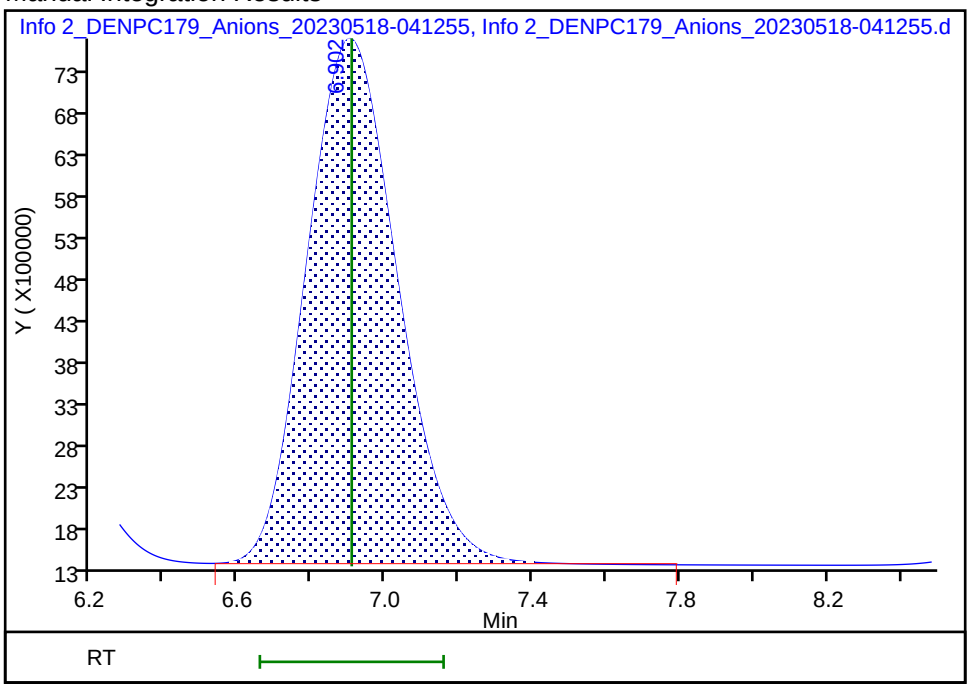
Processing Integration Results

RT: 6.90
Area: 108547762
Amount: 2.402166
Amount Units: ug/ml



Manual Integration Results

RT: 6.90
Area: 107664826
Amount: 2.382917
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:38:29 -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\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-041

Injection Date: 18-May-2023 03:57:00 Instrument ID: WC_IonChrom10

Lims ID: ccv

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 65

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

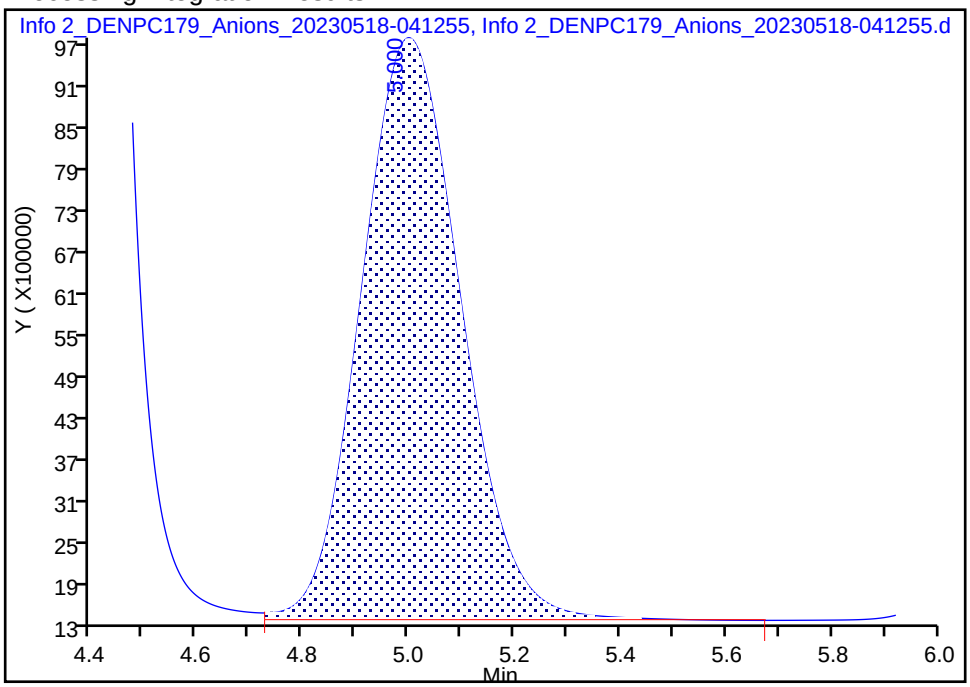
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0

Signal: 1

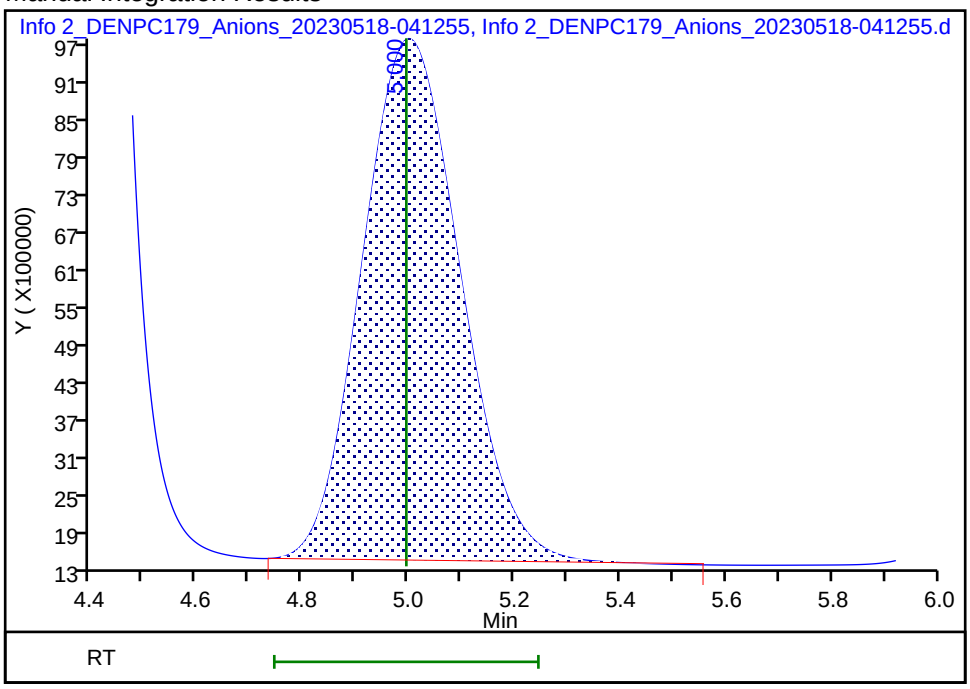
Processing Integration Results

RT: 5.00
Area: 110444202
Amount: 2.408902
Amount Units: ug/ml



Manual Integration Results

RT: 5.00
Area: 107784896
Amount: 2.351563
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:38:23 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-042
Lims ID: ccb
Client ID:
Sample Type: CCB
Inject. Date: 18-May-2023 04:12:00 ALS Bottle#: 0 Worklist Smp#: 66
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-066
Misc. Info.: 280-0121544-066
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions
Last Update: 18-May-2023 10:40:50 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:38:51

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143				ND	
2 Chloride		4.310				ND	
3 Nitrite as N		4.995				ND	U
4 Bromide	6.258	6.233	0.025	376686		NC	
5 Nitrate as N		6.907				ND	
6 Orthophosphate as P	9.125	9.110	0.015	6160262		-0.2280	
7 Sulfate	10.283	10.285	-0.002	812320		NC	M

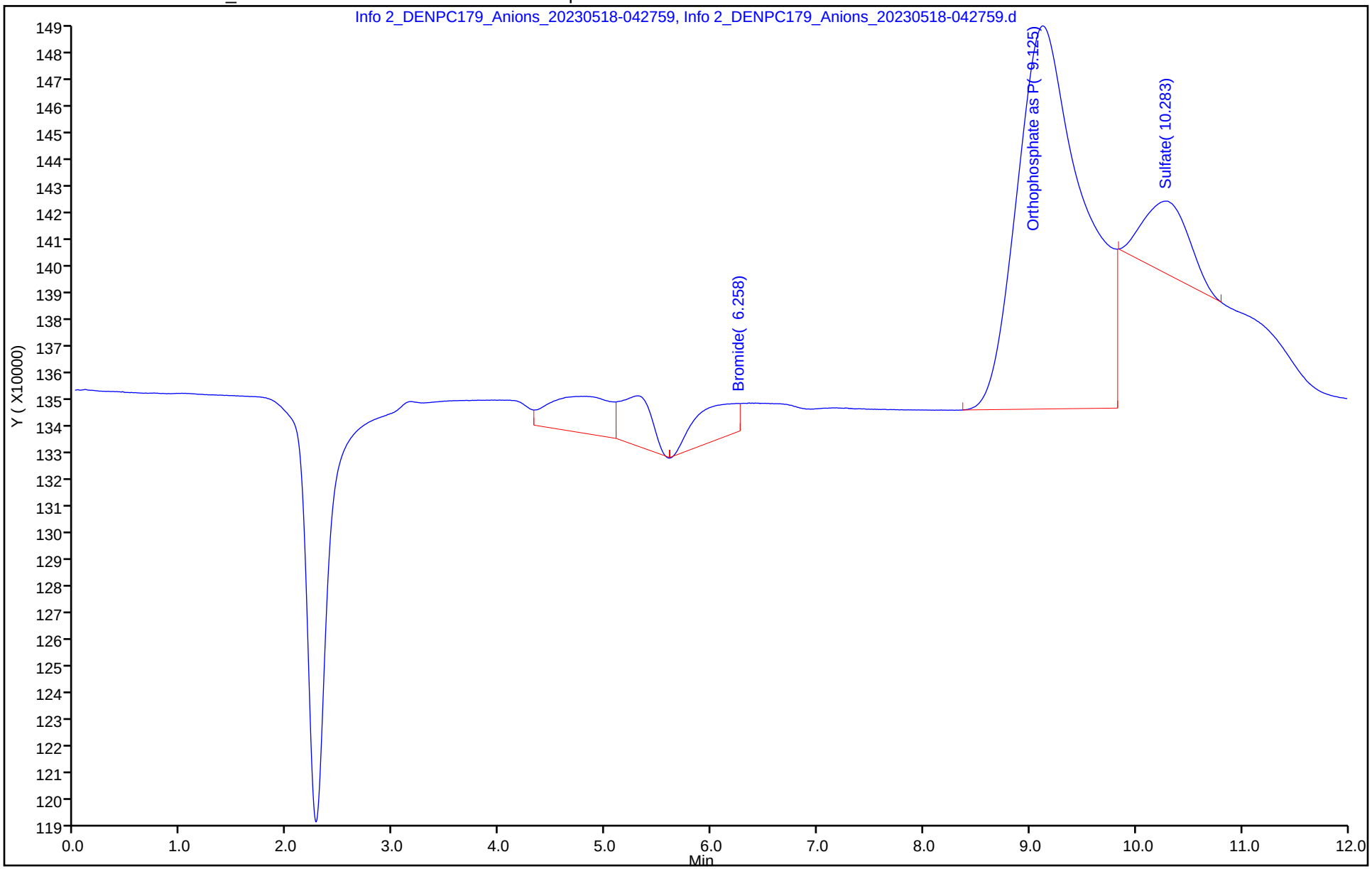
QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 18-May-2023 10:40:51 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-042759.d				
Injection Date:	18-May-2023 04:12:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ccb			Worklist Smp#:	66
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions		



User Disabled Compound Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-042

Injection Date: 18-May-2023 04:12:00 Instrument ID: WC_IonChrom10

Lims ID: ccb

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 66

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions

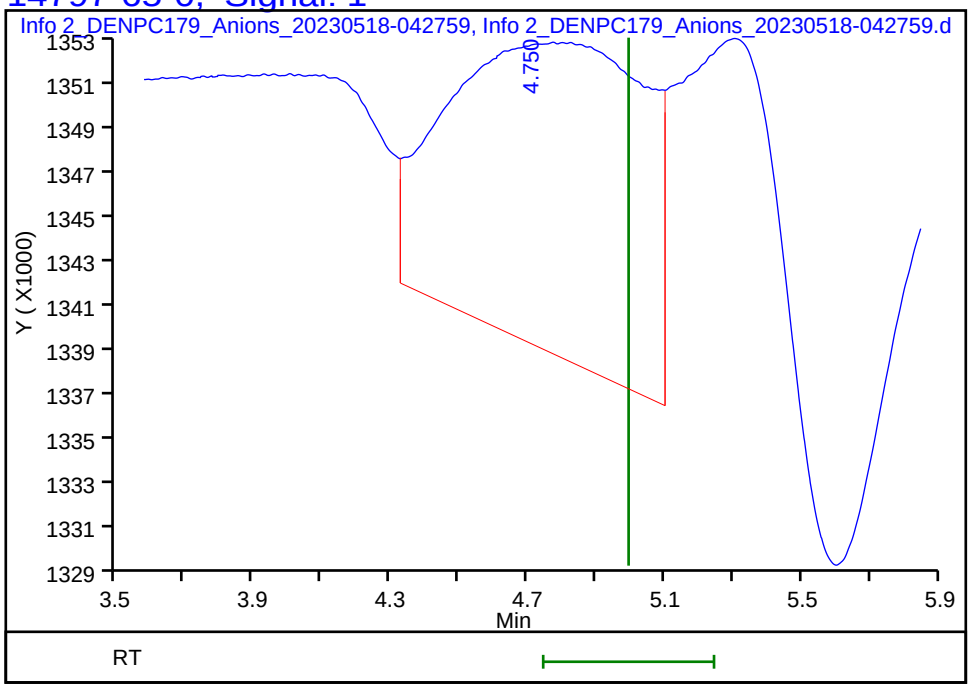
Column: Detector Info 2_091554_1

3 Nitrite as N, CAS: 14797-65-0, Signal: 1

RT: 4.75

Response: 544703

Amount: 0.039286



Reviewer: LVW8, 18-May-2023 10:38:51

Audit Action: Manually Integrated Audit Reason:

Report Date: 14-Apr-2023 14:03:49 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-141
Lims ID: STD L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 12-Apr-2023 14:04:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0120345-001
Misc. Info.: 280-0120345-001
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 14-Apr-2023 14:03:48 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1620

First Level Reviewer: LVW8 Date: 12-Apr-2023 15:40:32

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.175				ND	
2 Chloride	4.383	4.383	0.000	7464190	0.5000	0.5261	M
3 Nitrite as N		5.103				ND	
4 Bromide		6.292				ND	U
5 Nitrate as N		7.057				ND	
6 Orthophosphate as P	9.447	9.447	0.000	3338493		NC	M
7 Sulfate	10.645	10.645	0.000	7022789	0.5000	0.6018	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Reagents:

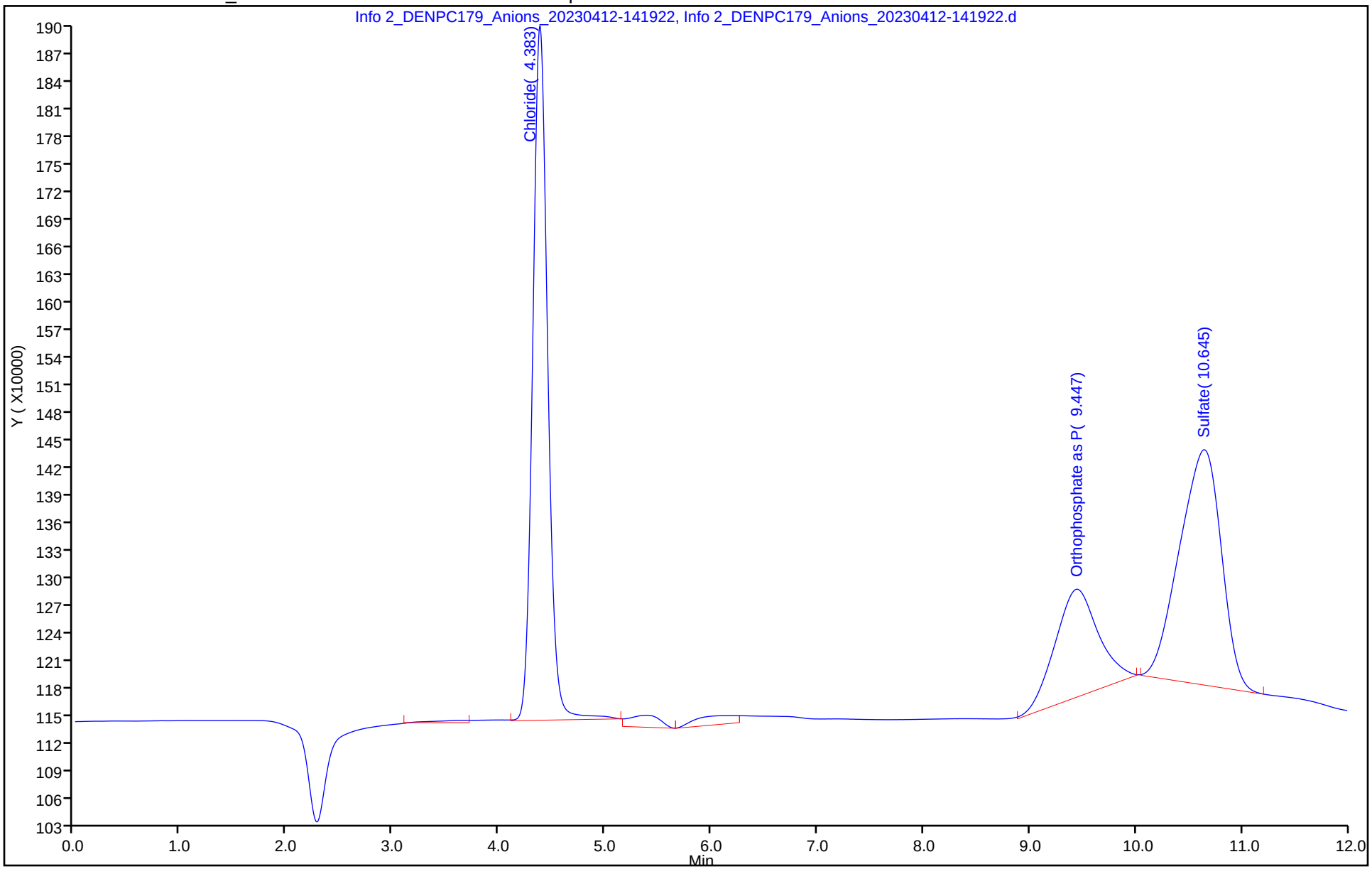
IC CAL cl/so4_00475 Amount Added: 0.04 Units: mL
IC Cal low_00703 Amount Added: 0.00 Units: mL

Report Date: 14-Apr-2023 14:03:49 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-141922.d

Injection Date:	12-Apr-2023 14:04:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	STD L1			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-141

Injection Date: 12-Apr-2023 14:04:00 Instrument ID: WC_IonChrom10

Lims ID: STD L1

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 1

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

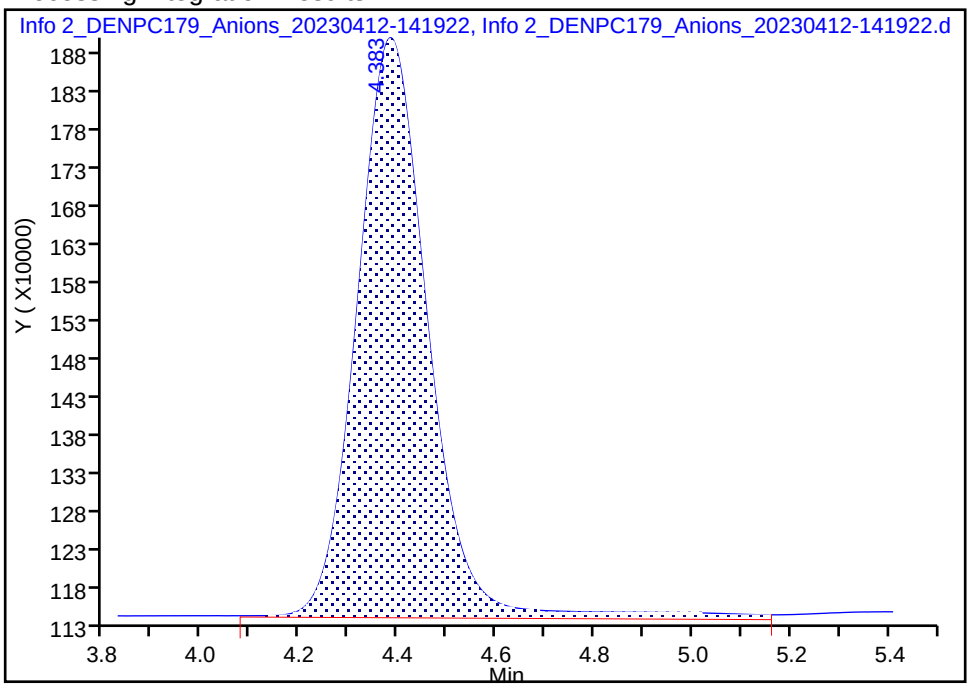
Column: Detector Info 2_091554_1

2 Chloride, CAS: 16887-00-6

Signal: 1

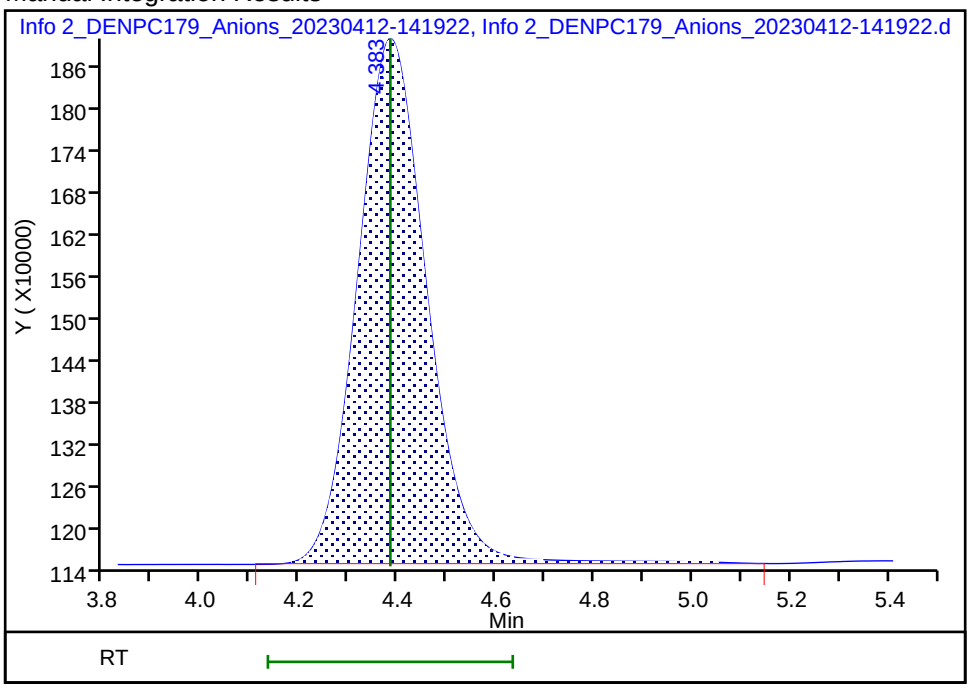
Processing Integration Results

RT: 4.38
Area: 7801695
Amount: 0.531210
Amount Units: ug/ml



Manual Integration Results

RT: 4.38
Area: 7464190
Amount: 0.526115
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:40:25

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-141

Injection Date: 12-Apr-2023 14:04:00 Instrument ID: WC_IonChrom10

Lims ID: STD L1

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 1

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

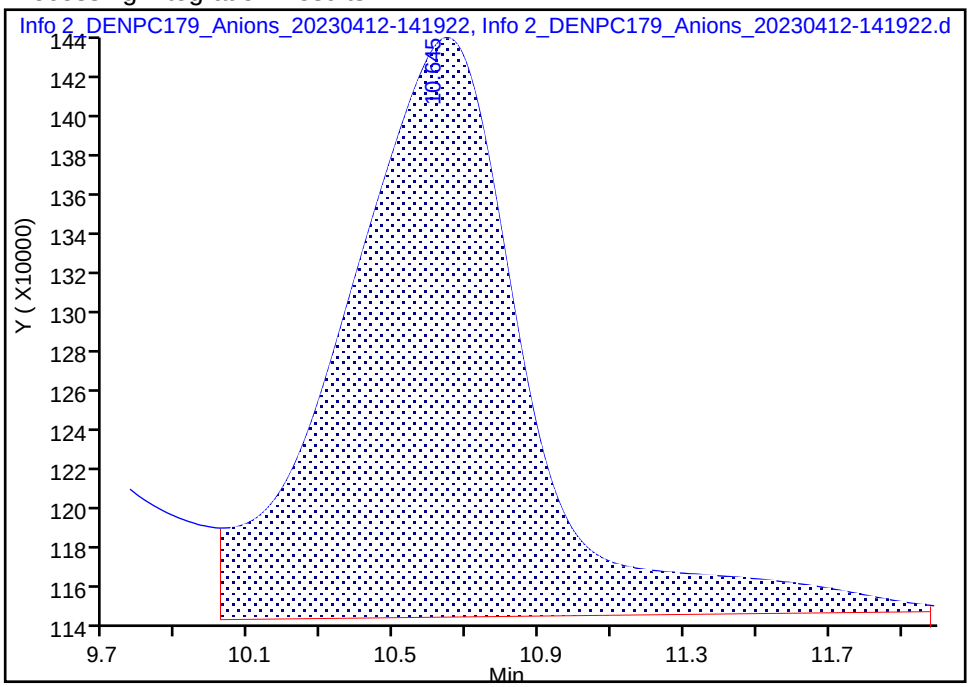
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

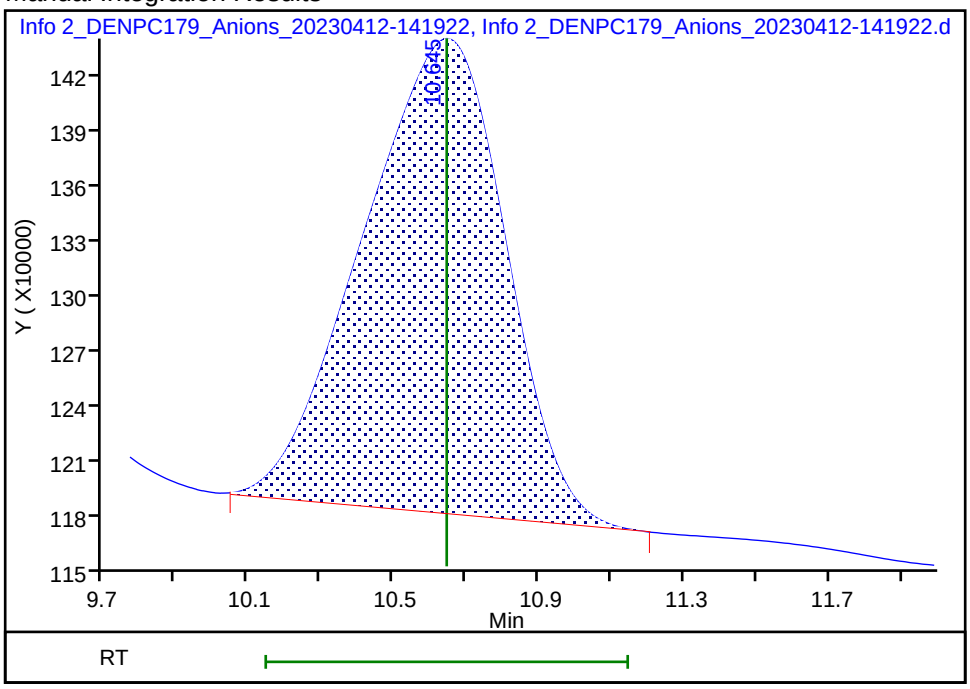
Processing Integration Results

RT: 10.65
Area: 10125141
Amount: 0.498424
Amount Units: ug/ml



Manual Integration Results

RT: 10.65
Area: 7022789
Amount: 0.601802
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:40:28

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Report Date: 14-Apr-2023 14:03:51 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-143
Lims ID: STD L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 12-Apr-2023 14:19:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0120345-002
Misc. Info.: 280-0120345-002
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 14-Apr-2023 14:03:50 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1620

First Level Reviewer: LVW8 Date: 12-Apr-2023 15:41:35

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.163	3.163	0.000	6262507	0.2000	0.2038	Ma
2 Chloride	4.380	4.380	0.000	20679388	1.25	1.21	M
3 Nitrite as N	5.115	5.115	0.000	8087413	NC	NC	M
4 Bromide	6.352	6.352	0.000	2964734	0.2000	0.2942	
5 Nitrate as N	7.383	7.383	0.000	8434441	NC	NC	a
6 Orthophosphate as P	9.813	9.813	0.000	13953811	NC	NC	M
7 Sulfate	11.045	11.045	0.000	14421328	1.25	1.14	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

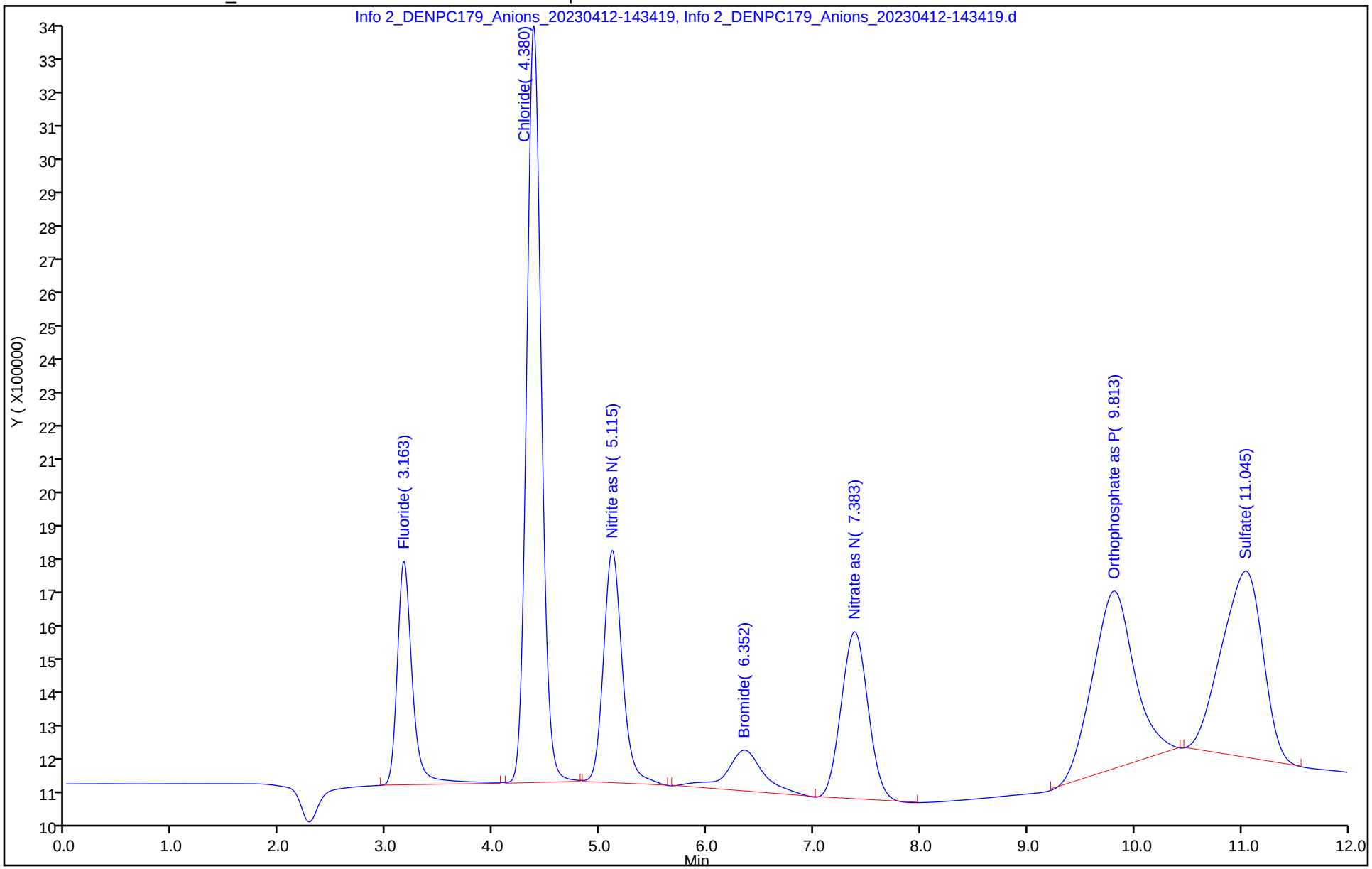
Reagents:

IC CAL cl/so4_00475 Amount Added: 0.10 Units: mL
IC Cal low_00703 Amount Added: 0.08 Units: mL

Report Date: 14-Apr-2023 14:03:51 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-143419.d				
Injection Date:	12-Apr-2023 14:19:00	Instrument ID:	WC_IonChrom10	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_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

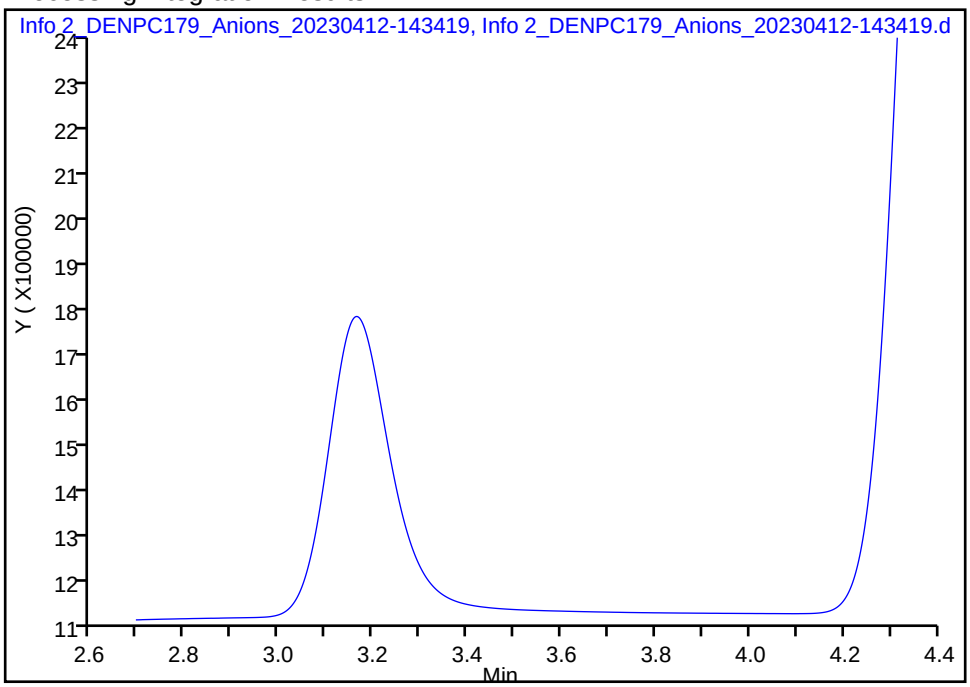
Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-143				
Injection Date:	12-Apr-2023 14:19:00	Instrument ID:	WC_IonChrom10		
Lims ID:	STD L2				
Client ID:					
Operator ID:	wetchemd	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		
Column:		Detector	Info 2_091554_1		

1 Fluoride, CAS: 16984-48-8

Signal: 1

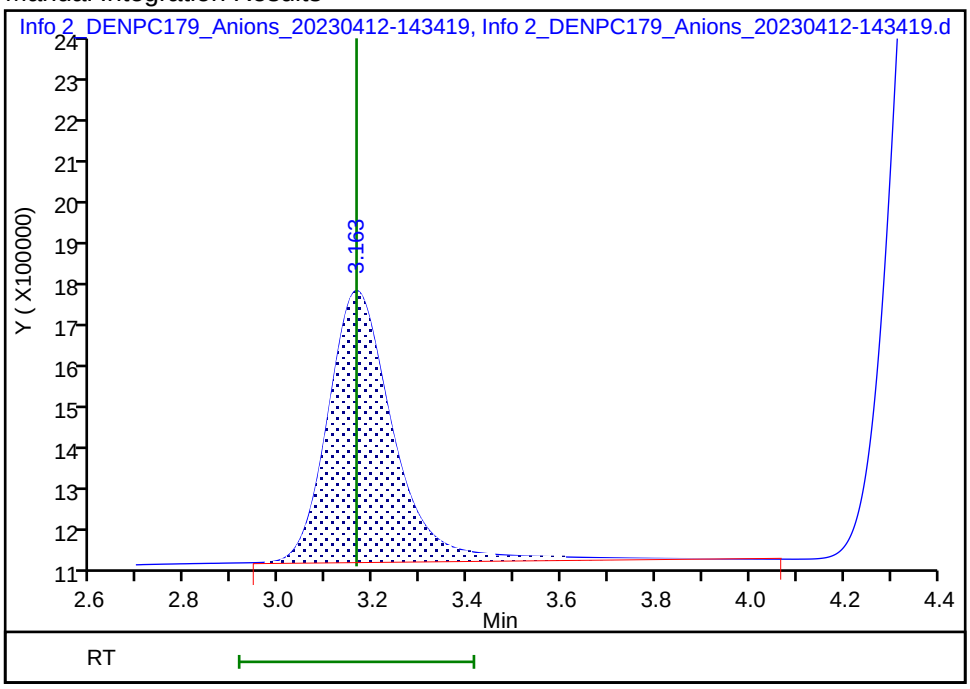
Not Detected
Expected RT: 3.16

Processing Integration Results



Manual Integration Results

RT: 3.16
Area: 6262507
Amount: 0.203766
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:41:29
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-143

Injection Date: 12-Apr-2023 14:19:00 Instrument ID: WC_IonChrom10

Lims ID: STD L2

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 2

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

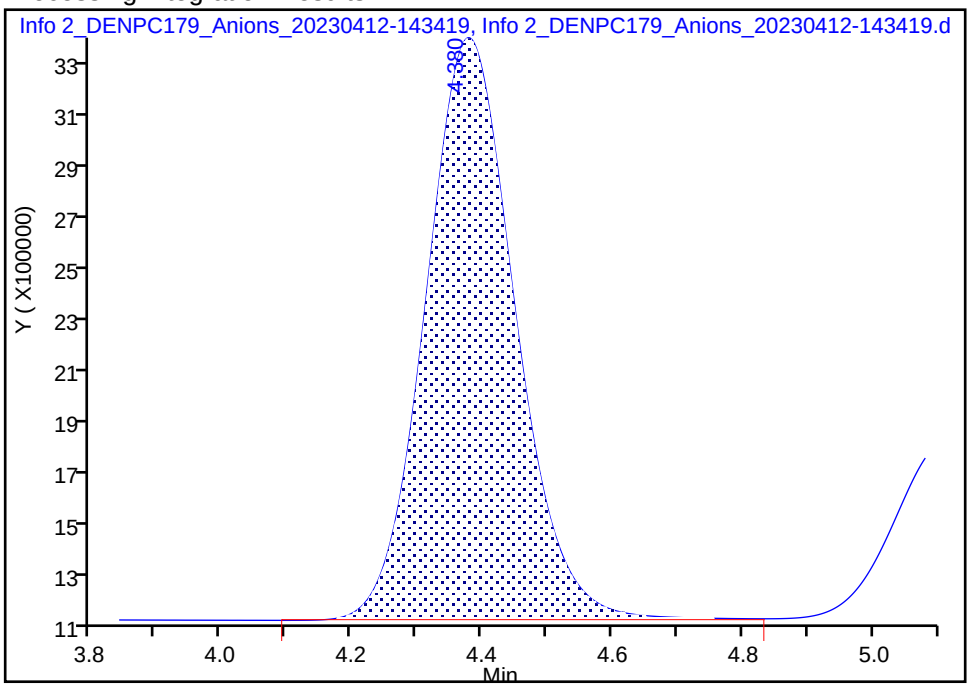
Column: Detector Info 2_091554_1

2 Chloride, CAS: 16887-00-6

Signal: 1

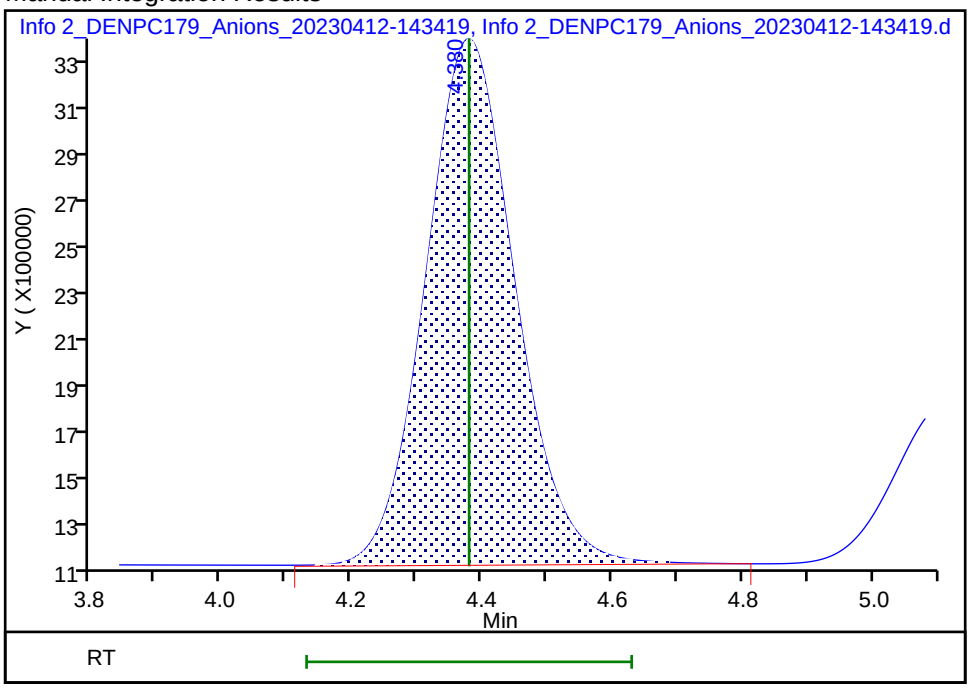
Processing Integration Results

RT: 4.38
Area: 20754406
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 4.38
Area: 20679388
Amount: 1.214764
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:41:02

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-143

Injection Date: 12-Apr-2023 14:19:00 Instrument ID: WC_IonChrom10

Lims ID: STD L2

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 2

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

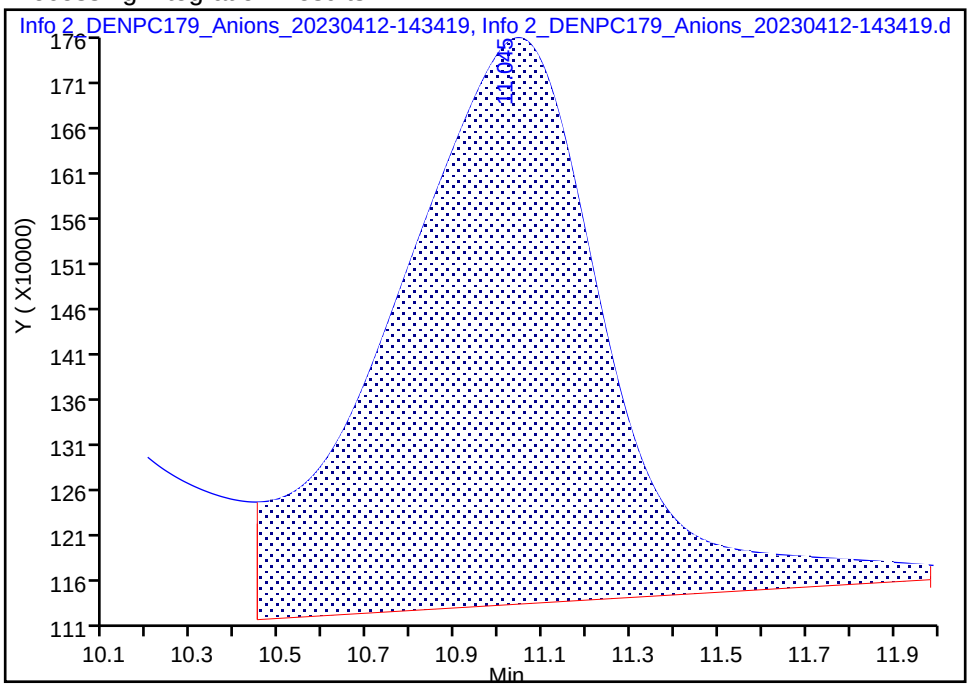
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

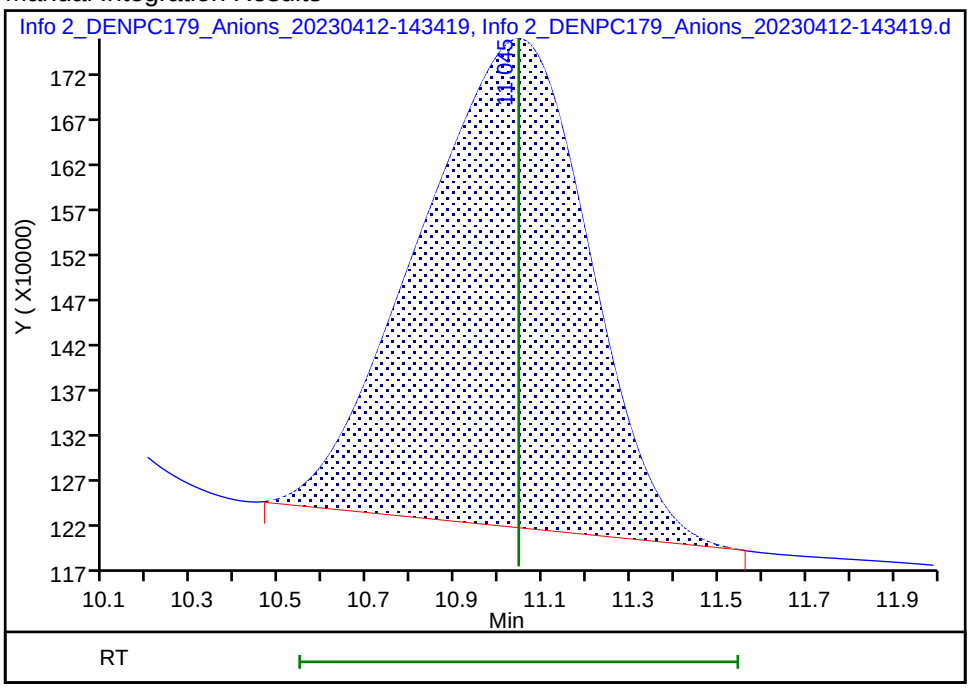
Processing Integration Results

RT: 11.05
Area: 21000030
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 11.05
Area: 14421328
Amount: 1.137806
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:41:15

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Report Date: 14-Apr-2023 14:03:54 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-144
Lims ID: STD L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 12-Apr-2023 14:34:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0120345-003
Misc. Info.: 280-0120345-003
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 14-Apr-2023 14:03:53 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1620

First Level Reviewer: LVW8 Date: 12-Apr-2023 15:42:15

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.168	3.168	0.000	16995372	0.5000	0.4813	Ma
2 Chloride	4.383	4.383	0.000	43975181	2.50	2.43	M
3 Nitrite as N	5.118	5.118	0.000	21615246	NC	NC	M
4 Bromide	6.317	6.317	0.000	3222251	0.5000	0.3320	M
5 Nitrate as N	7.123	7.123	0.000	19909305	NC	NC	M
6 Orthophosphate as P	9.405	9.405	0.000	23629516	NC	NC	M
7 Sulfate	10.647	10.647	0.000	29311364	2.50	2.22	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

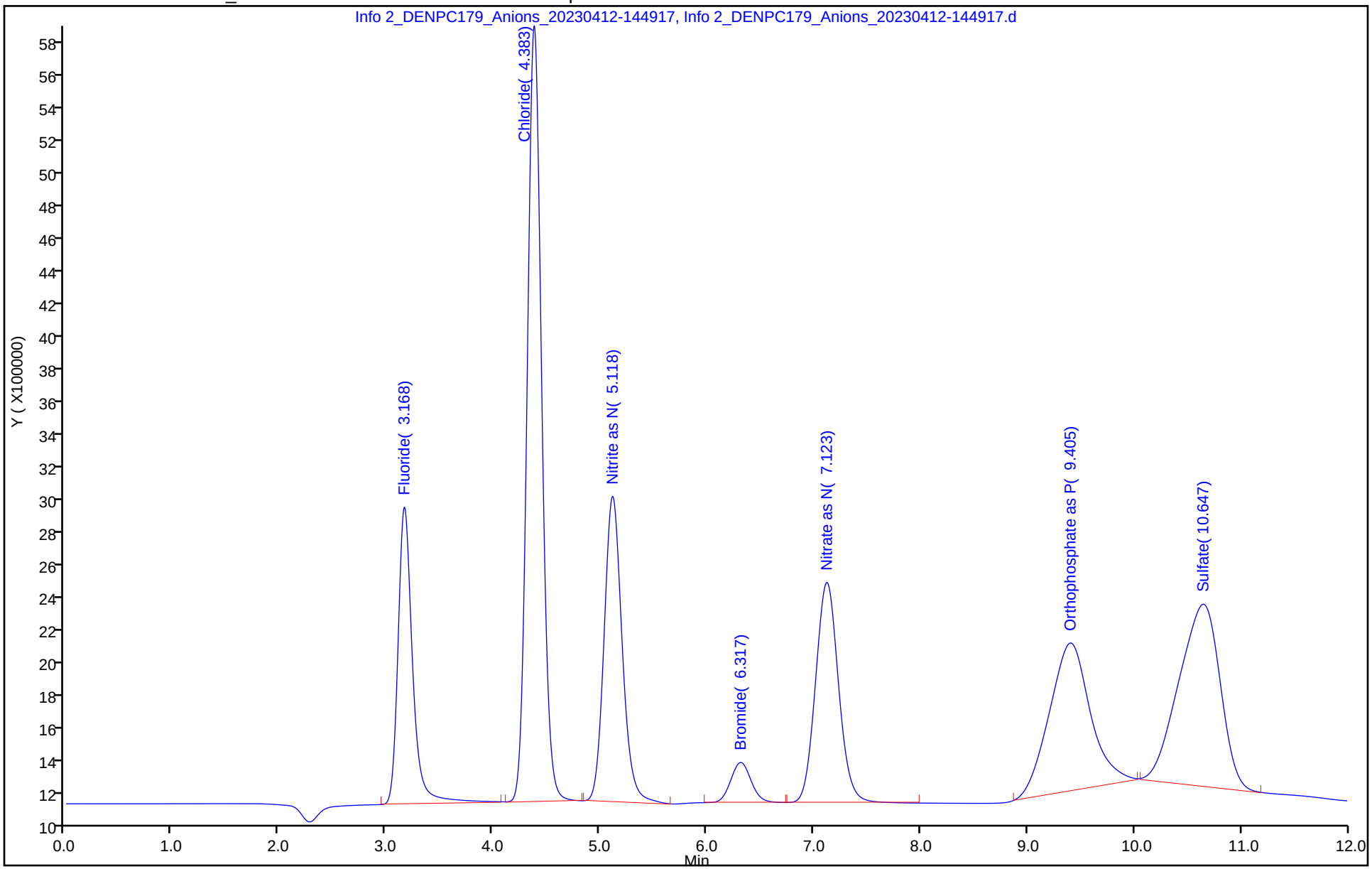
Reagents:

IC CAL cl/so4_00475 Amount Added: 0.20 Units: mL
IC Cal low_00703 Amount Added: 0.20 Units: mL

Report Date: 14-Apr-2023 14:03:54 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-144917.d				
Injection Date:	12-Apr-2023 14:34:00	Instrument ID:	WC_IonChrom10	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_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-144

Injection Date: 12-Apr-2023 14:34:00 Instrument ID: WC_IonChrom10

Lims ID: STD L3

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

Column: Detector Info 2_091554_1

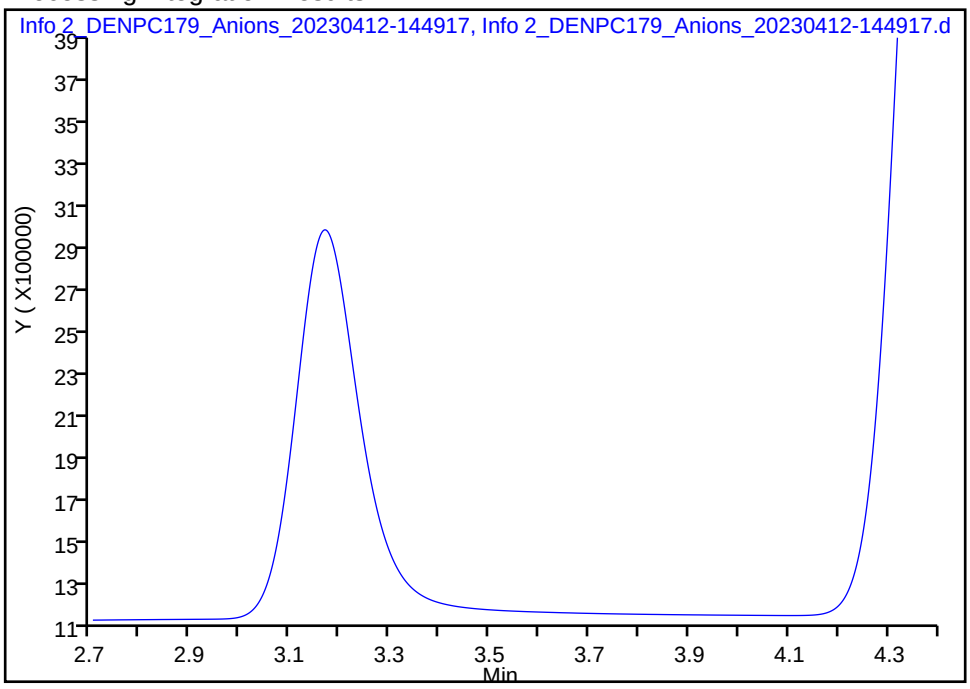
1 Fluoride, CAS: 16984-48-8

Signal: 1

Not Detected

Expected RT: 3.17

Processing Integration Results



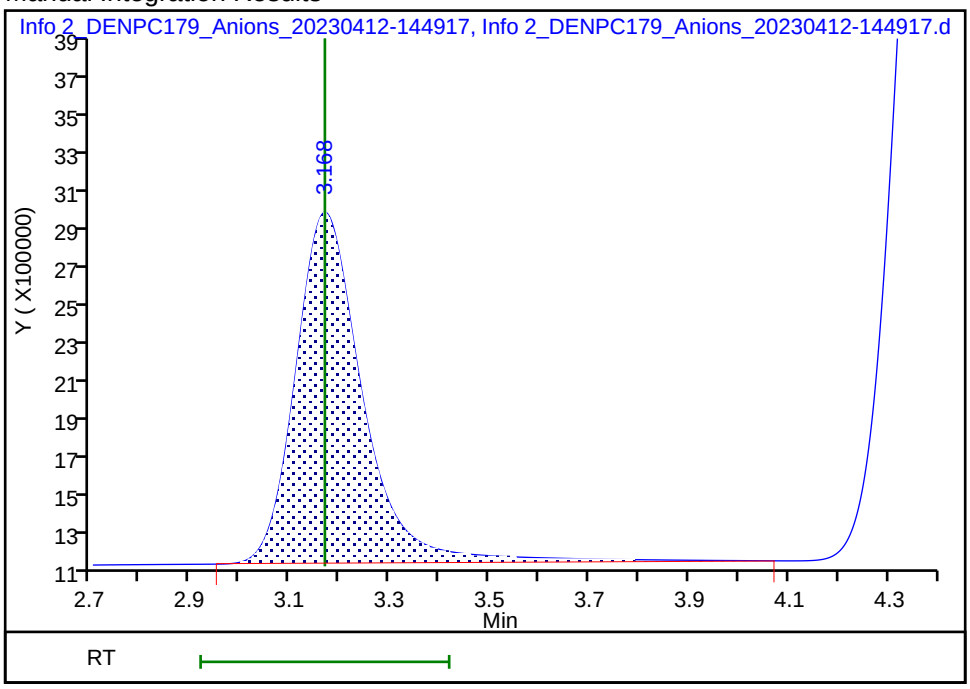
Manual Integration Results

RT: 3.17

Area: 16995372

Amount: 0.481313

Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:42:12

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-144

Injection Date: 12-Apr-2023 14:34:00 Instrument ID: WC_IonChrom10

Lims ID: STD L3

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

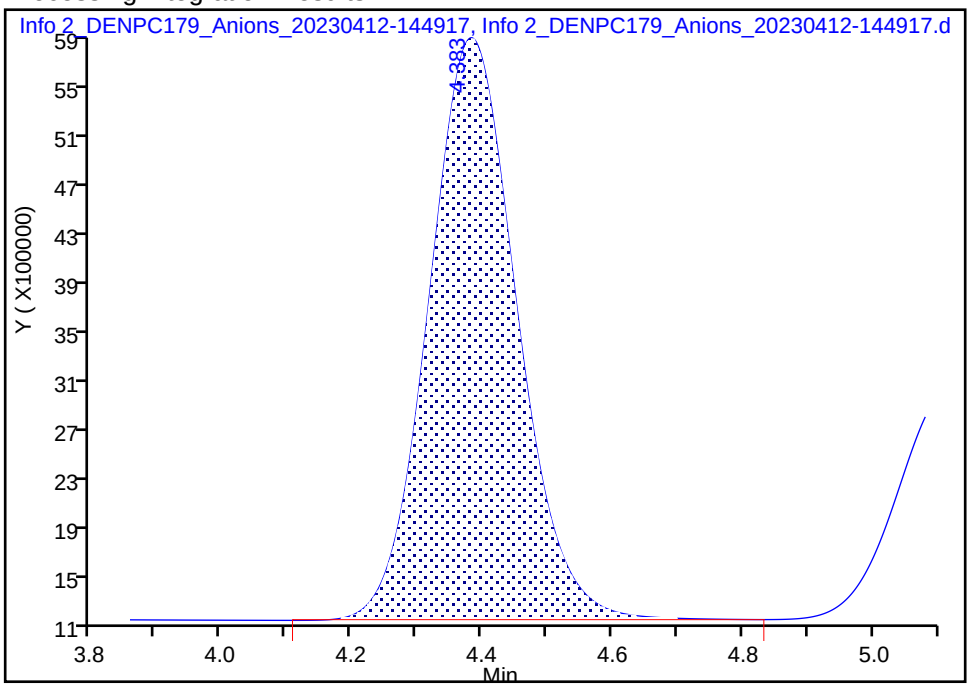
Column: Detector Info 2_091554_1

2 Chloride, CAS: 16887-00-6

Signal: 1

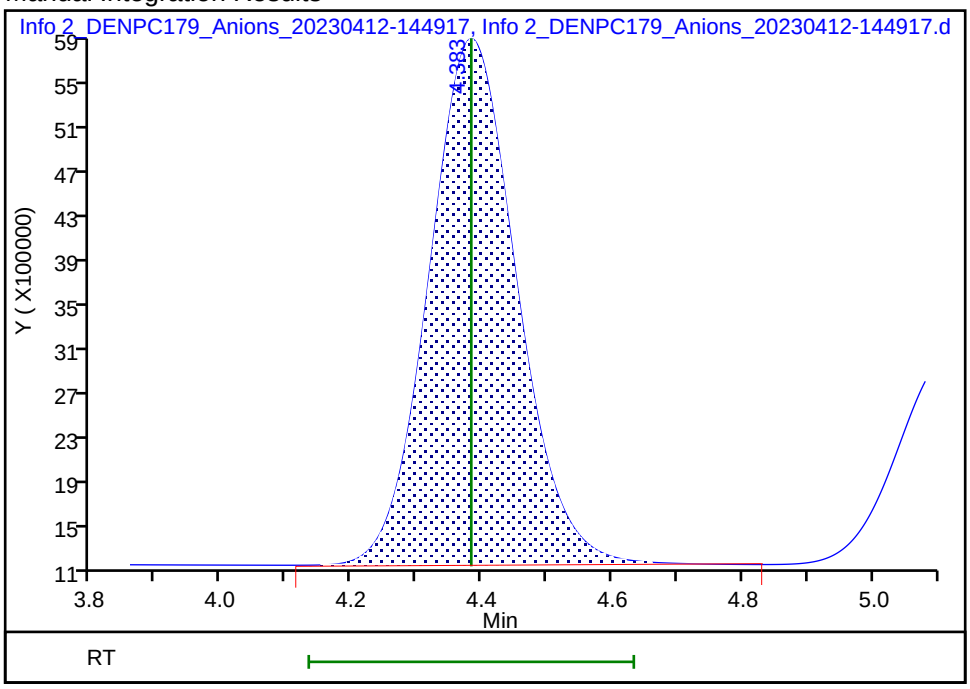
Processing Integration Results

RT: 4.38
Area: 44047360
Amount: 2.430258
Amount Units: ug/ml



Manual Integration Results

RT: 4.38
Area: 43975181
Amount: 2.428716
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:41:50

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-144

Injection Date: 12-Apr-2023 14:34:00 Instrument ID: WC_IonChrom10

Lims ID: STD L3

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

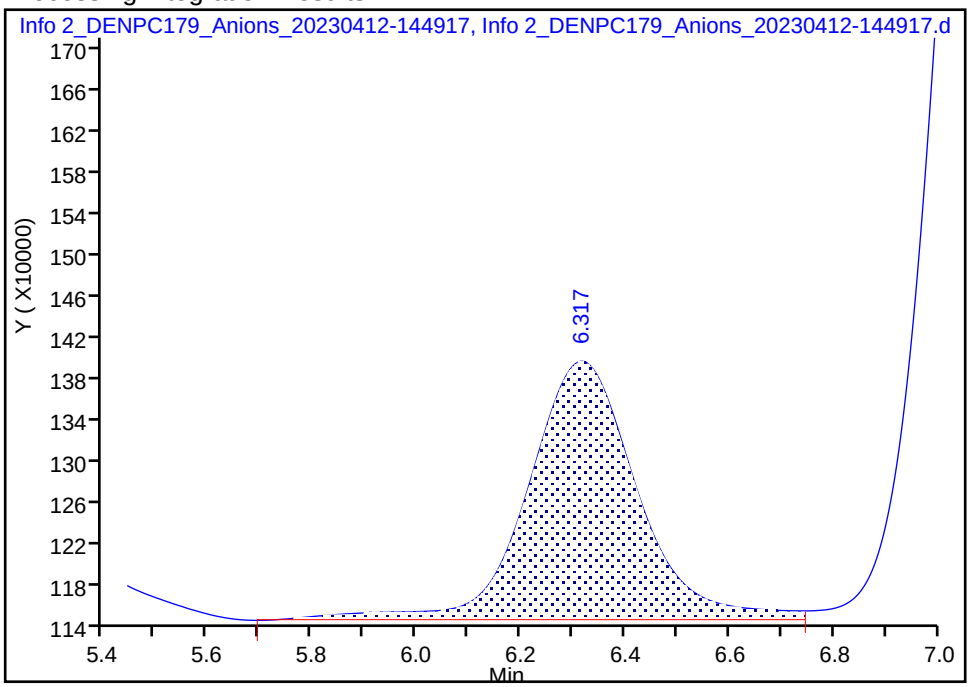
Column: Detector Info 2_091554_1

4 Bromide, CAS: 24959-67-9

Signal: 1

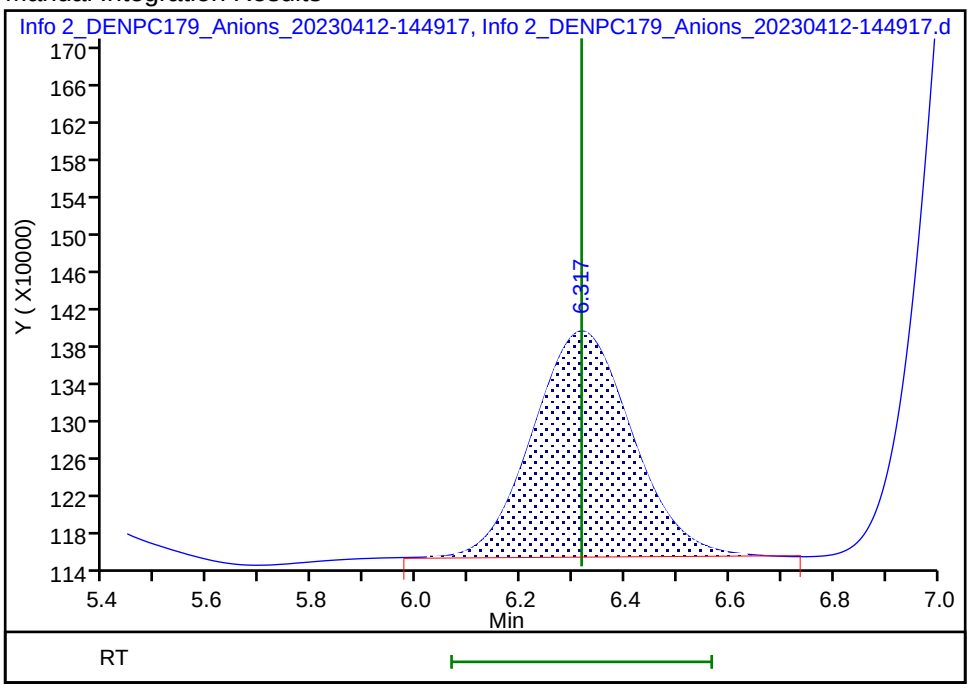
Processing Integration Results

RT: 6.32
Area: 3677937
Amount: 0.379796
Amount Units: ug/ml



Manual Integration Results

RT: 6.32
Area: 3222251
Amount: 0.331977
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:41:59

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-144

Injection Date: 12-Apr-2023 14:34:00 Instrument ID: WC_IonChrom10

Lims ID: STD L3

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

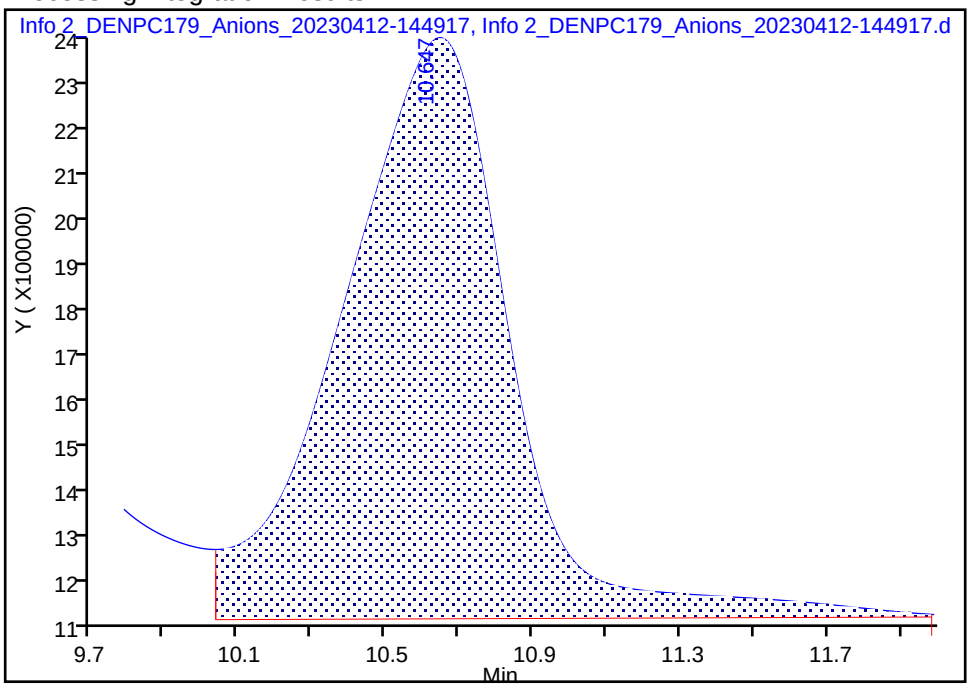
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

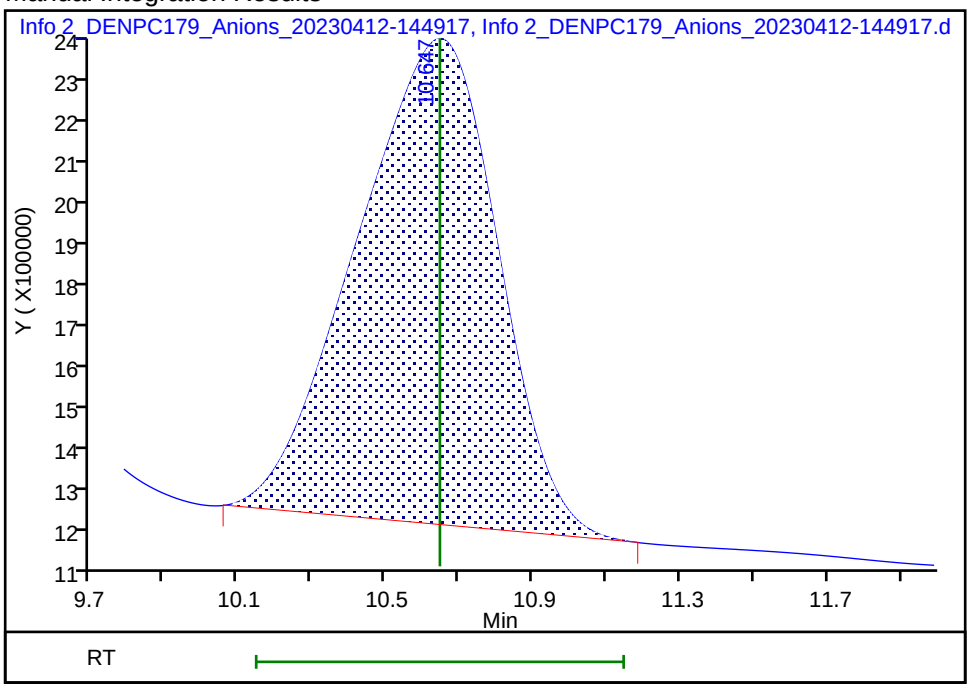
Processing Integration Results

RT: 10.65
Area: 37890185
Amount: 2.712749
Amount Units: ug/ml



Manual Integration Results

RT: 10.65
Area: 29311364
Amount: 2.216549
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:42:07

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-150
Lims ID: STD L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 12-Apr-2023 14:49:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0120345-004
Misc. Info.: 280-0120345-004
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 14-Apr-2023 14:03:55 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1620

First Level Reviewer: LVW8 Date: 12-Apr-2023 15:42:52

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.168	3.168	0.000	37412858	1.00	1.01	Ma
2 Chloride	4.390	4.390	0.000	575824993	30.0	30.1	M
3 Nitrite as N	5.113	5.113	0.000	44844044	NC	NC	M
4 Bromide	6.308	6.308	0.000	6583592	1.00	0.8250	M
5 Nitrate as N	7.103	7.103	0.000	42066844	NC	NC	M
6 Orthophosphate as P	9.388	9.388	0.000	34760084	NC	NC	M
7 Sulfate	10.628	10.628	0.000	410479688	30.0	29.8	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

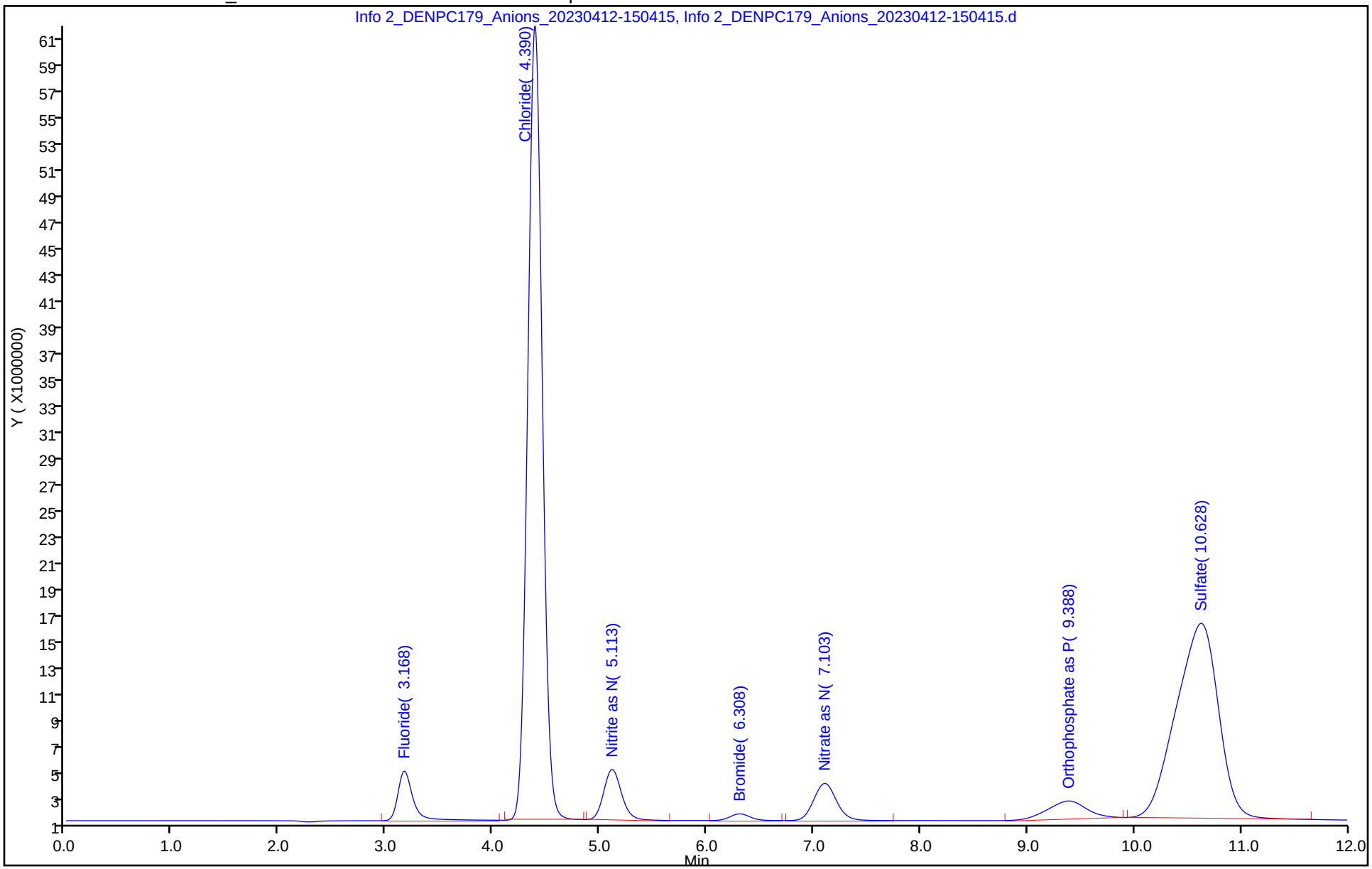
IC CAL cl/so4_00475 Amount Added: 2.40 Units: mL
IC Cal low_00703 Amount Added: 0.40 Units: mL

Report Date: 14-Apr-2023 14:03:55 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-150415.d

Injection Date:	12-Apr-2023 14:49:00	Instrument ID:	WC_IonChrom10	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_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

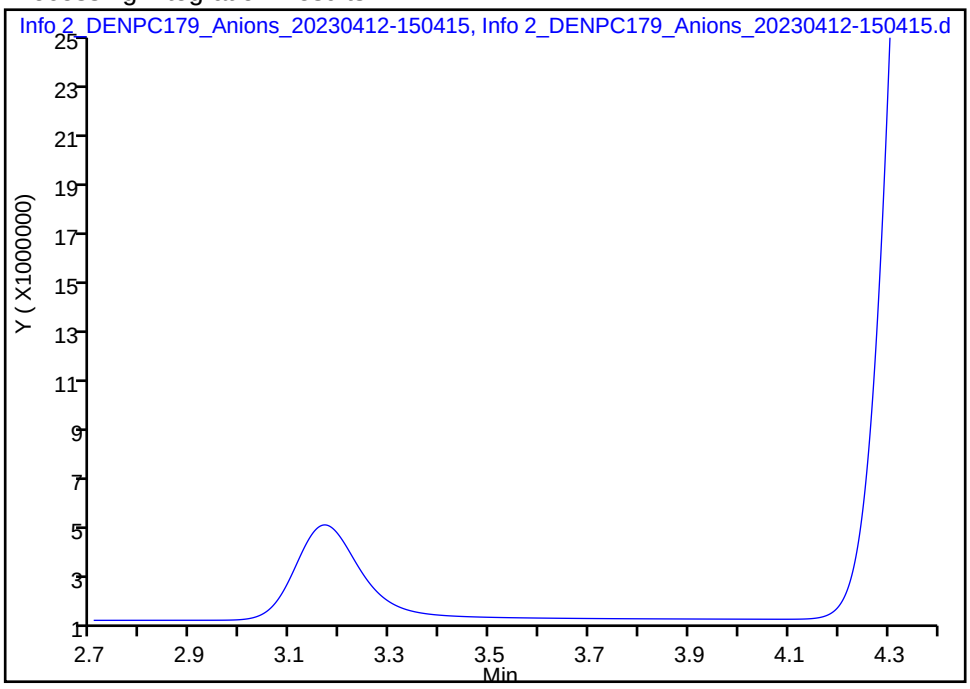
Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-150
Injection Date: 12-Apr-2023 14:49:00 Instrument ID: WC_IonChrom10
Lims ID: STD L4
Client ID:
Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: Anions_IC10 Limit Group: Wet - Anions 28D
Column: Detector Info 2_091554_1

1 Fluoride, CAS: 16984-48-8

Signal: 1

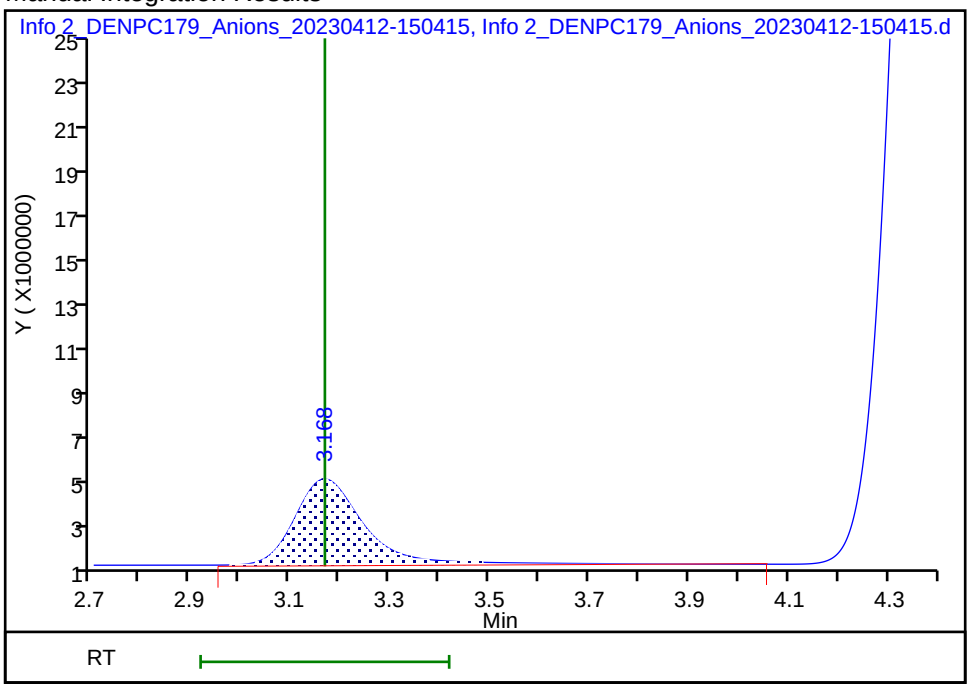
Not Detected
Expected RT: 3.17

Processing Integration Results



Manual Integration Results

RT: 3.17
Area: 37412858
Amount: 1.009300
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:42:48
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

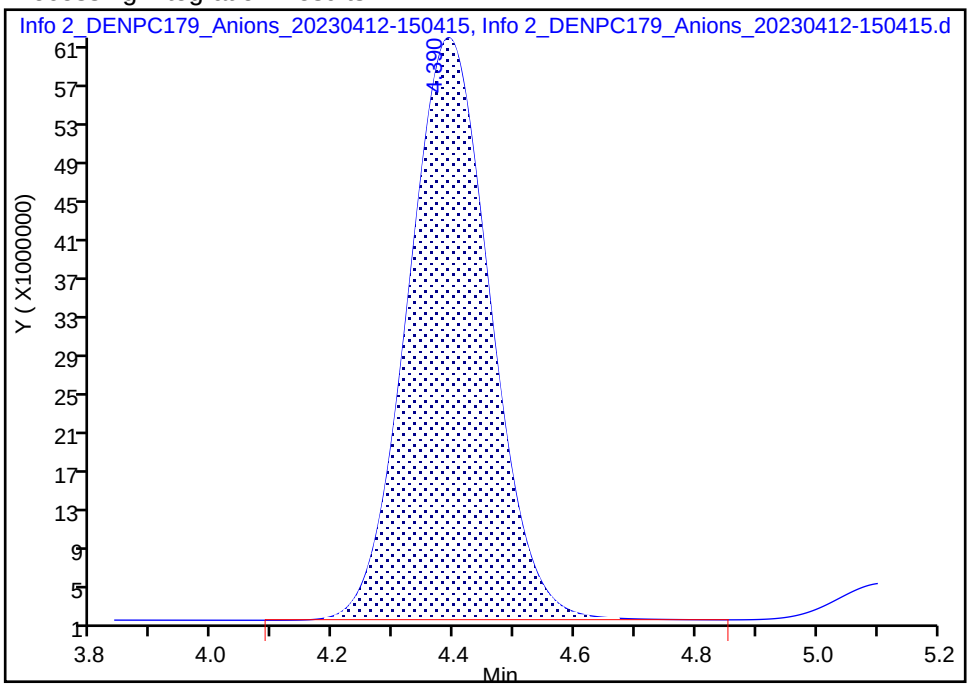
Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-150
Injection Date: 12-Apr-2023 14:49:00 Instrument ID: WC_IonChrom10
Lims ID: STD L4
Client ID:
Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: Anions_IC10 Limit Group: Wet - Anions 28D
Column: Detector Info 2_091554_1

2 Chloride, CAS: 16887-00-6

Signal: 1

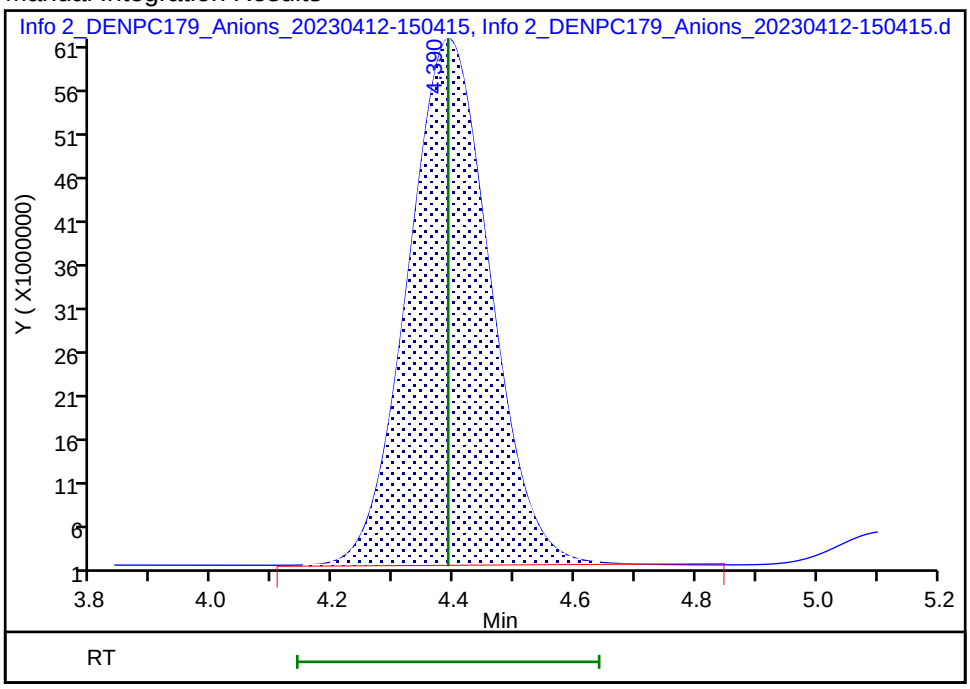
Processing Integration Results

RT: 4.39
Area: 577275465
Amount: 30.190881
Amount Units: ug/ml



Manual Integration Results

RT: 4.39
Area: 575824993
Amount: 30.143601
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:42:25
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

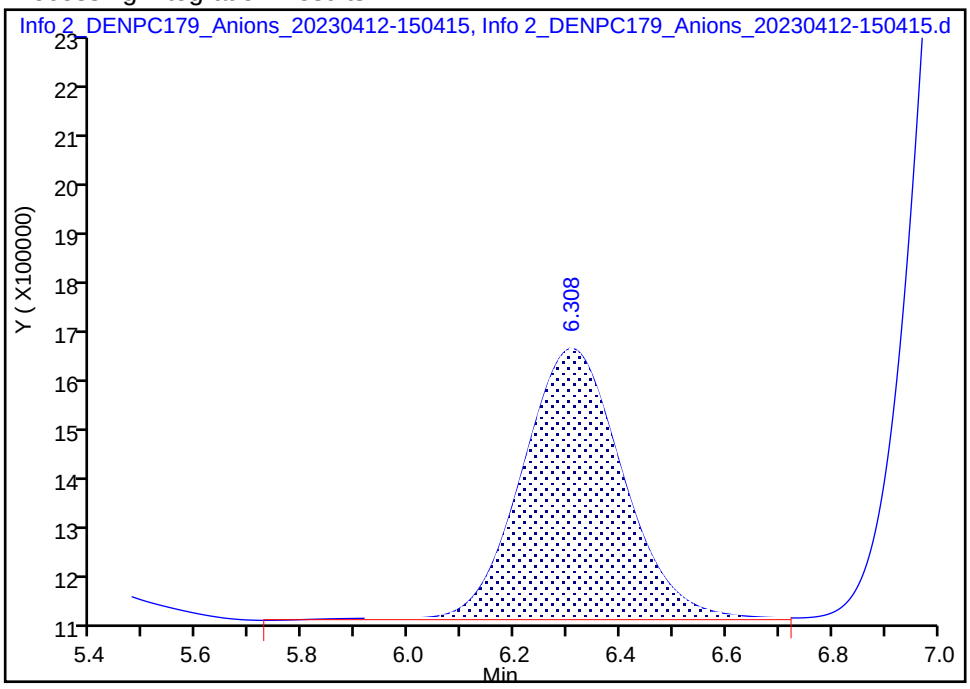
Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-150
Injection Date: 12-Apr-2023 14:49:00 Instrument ID: WC_IonChrom10
Lims ID: STD L4
Client ID:
Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: Anions_IC10 Limit Group: Wet - Anions 28D
Column: Detector Info 2_091554_1

4 Bromide, CAS: 24959-67-9

Signal: 1

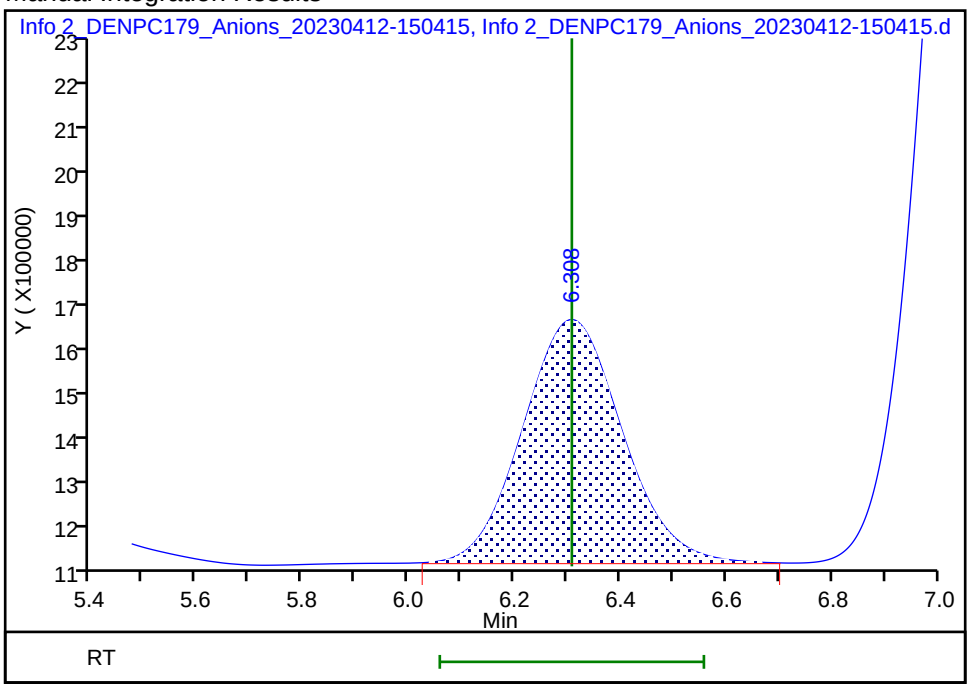
Processing Integration Results

RT: 6.31
Area: 6790567
Amount: 0.851251
Amount Units: ug/ml



Manual Integration Results

RT: 6.31
Area: 6583592
Amount: 0.824970
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:42:31
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

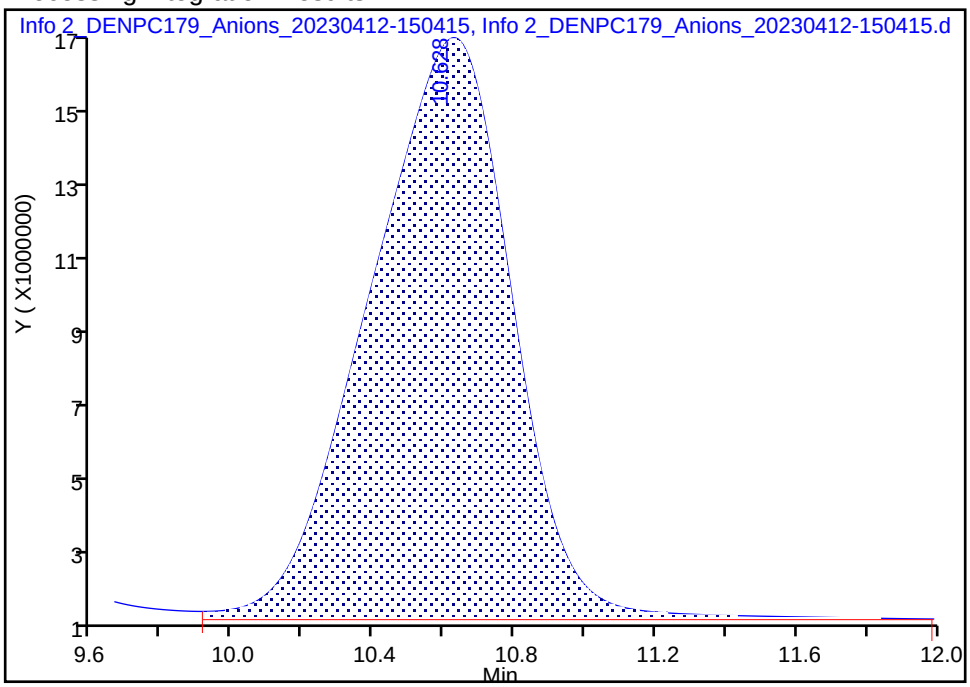
Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-150
Injection Date: 12-Apr-2023 14:49:00 Instrument ID: WC_IonChrom10
Lims ID: STD L4
Client ID:
Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: Anions_IC10 Limit Group: Wet - Anions 28D
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

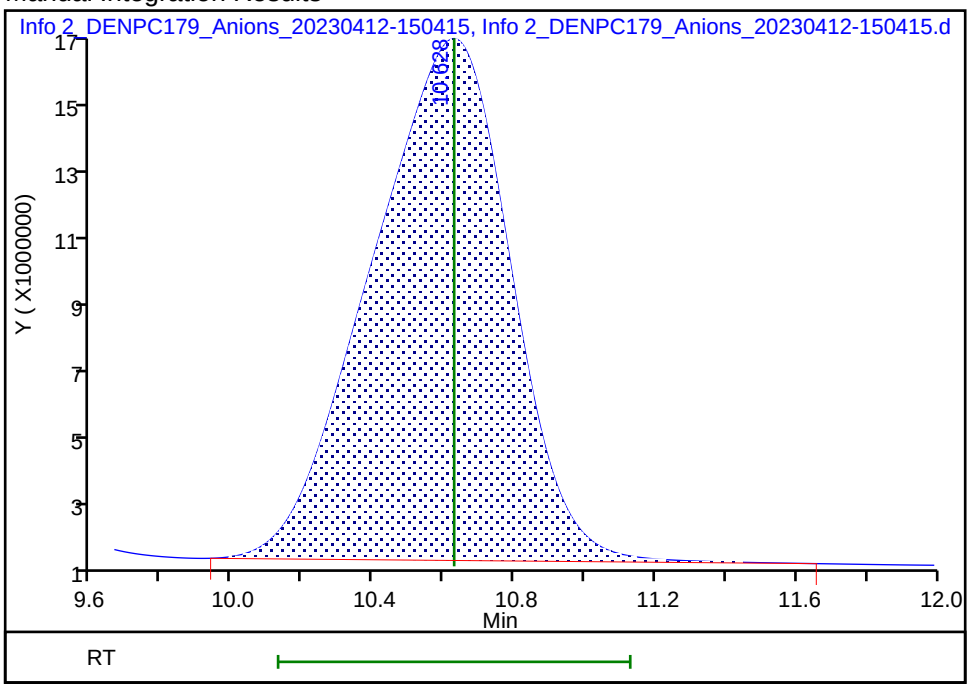
Processing Integration Results

RT: 10.63
Area: 426510642
Amount: 30.246646
Amount Units: ug/ml



Manual Integration Results

RT: 10.63
Area: 410479688
Amount: 29.831152
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:42:42
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-151
Lims ID: STD L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 12-Apr-2023 15:04:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0120345-005
Misc. Info.: 280-0120345-005
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 14-Apr-2023 14:03:57 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1620

First Level Reviewer: LVW8 Date: 12-Apr-2023 15:43:24

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.170	3.170	0.000	96629288	2.50	2.54	Ma
2 Chloride	4.405	4.405	0.000	1149686166	60.0	60.0	M
3 Nitrite as N	5.107	5.107	0.000	116231748	NC	NC	M
4 Bromide	6.298	6.298	0.000	17672625	2.50	2.45	
5 Nitrate as N	7.078	7.078	0.000	112738215	NC	NC	M
6 Orthophosphate as P	9.368	9.368	0.000	65067694	NC	NC	M
7 Sulfate	10.610	10.610	0.000	828007497	60.0	60.1	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

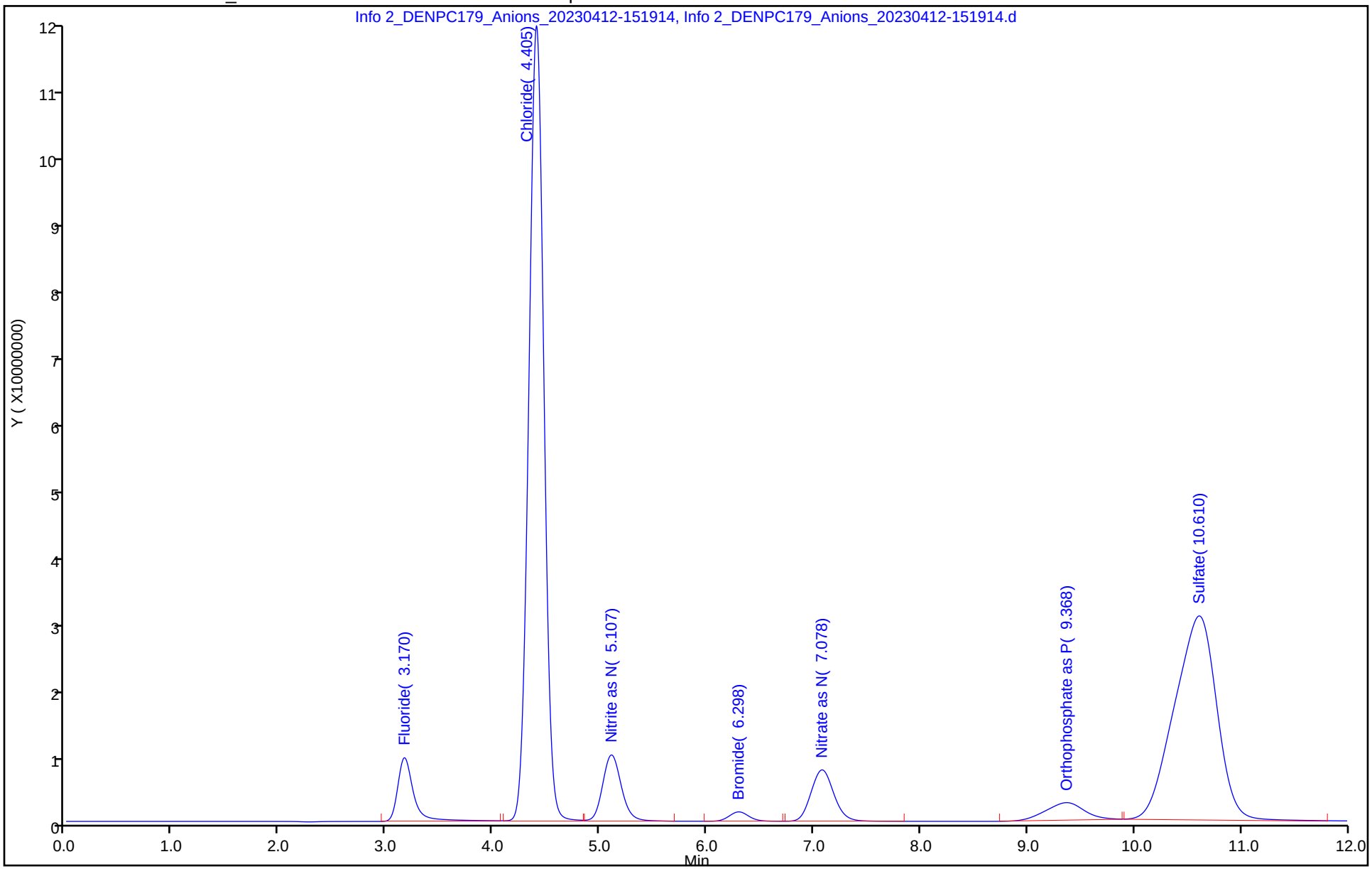
IC CAL cl/so4_00475 Amount Added: 4.80 Units: mL
IC Cal low_00703 Amount Added: 1.00 Units: mL

Report Date: 14-Apr-2023 14:03:58 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-151914.d

Injection Date:	12-Apr-2023 15:04:00	Instrument ID:	WC_IonChrom10	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_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-151

Injection Date: 12-Apr-2023 15:04:00 Instrument ID: WC_IonChrom10

Lims ID: STD L5

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

Column: Detector Info 2_091554_1

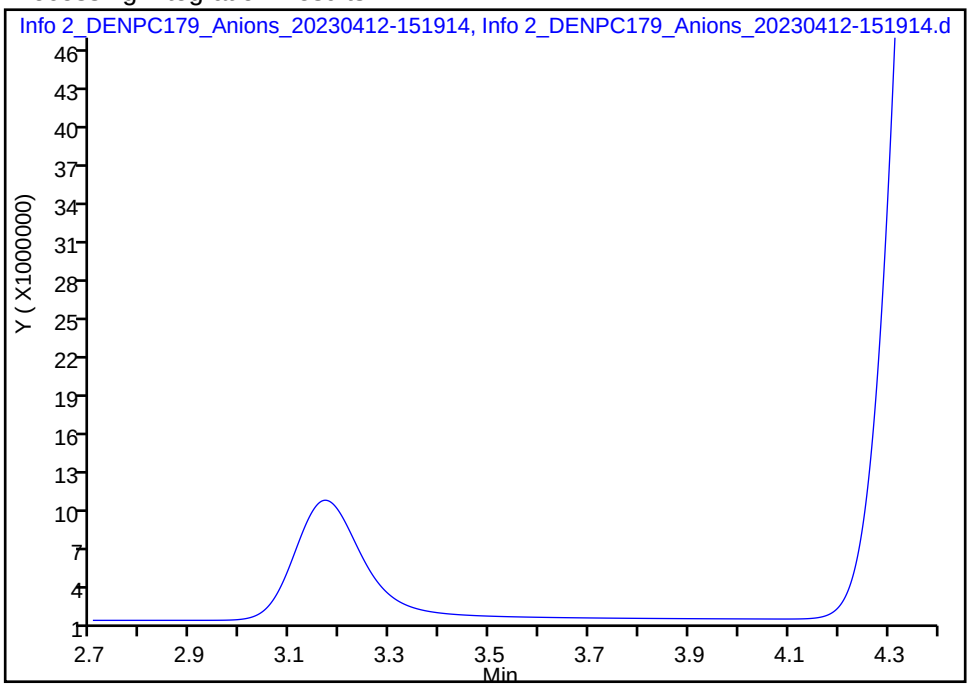
1 Fluoride, CAS: 16984-48-8

Signal: 1

Not Detected

Expected RT: 3.17

Processing Integration Results



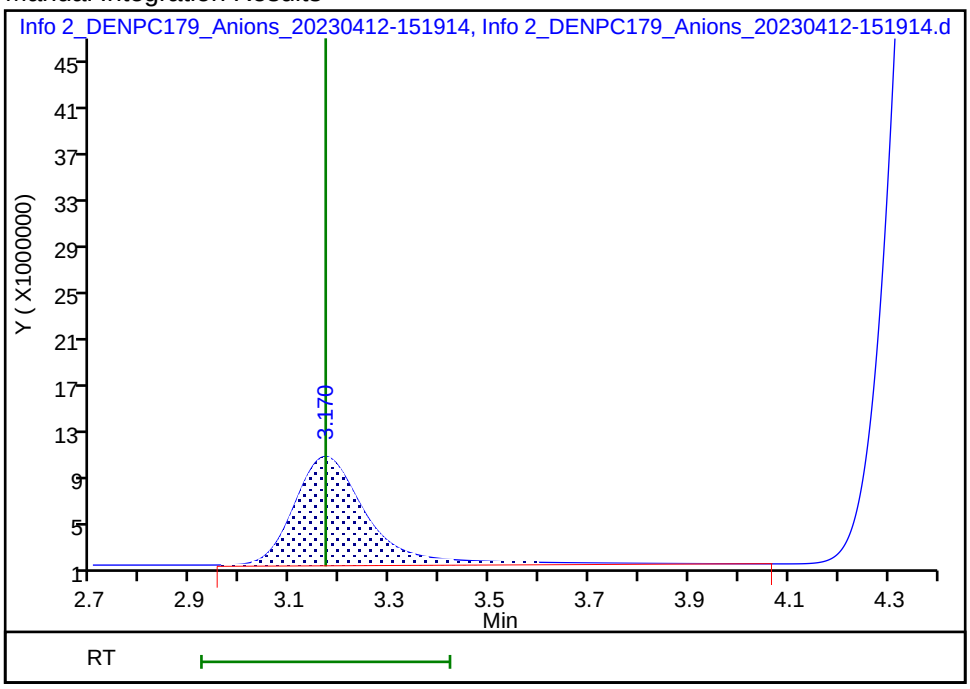
Manual Integration Results

RT: 3.17

Area: 96629288

Amount: 2.540610

Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:43:20

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-151

Injection Date: 12-Apr-2023 15:04:00 Instrument ID: WC_IonChrom10

Lims ID: STD L5

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

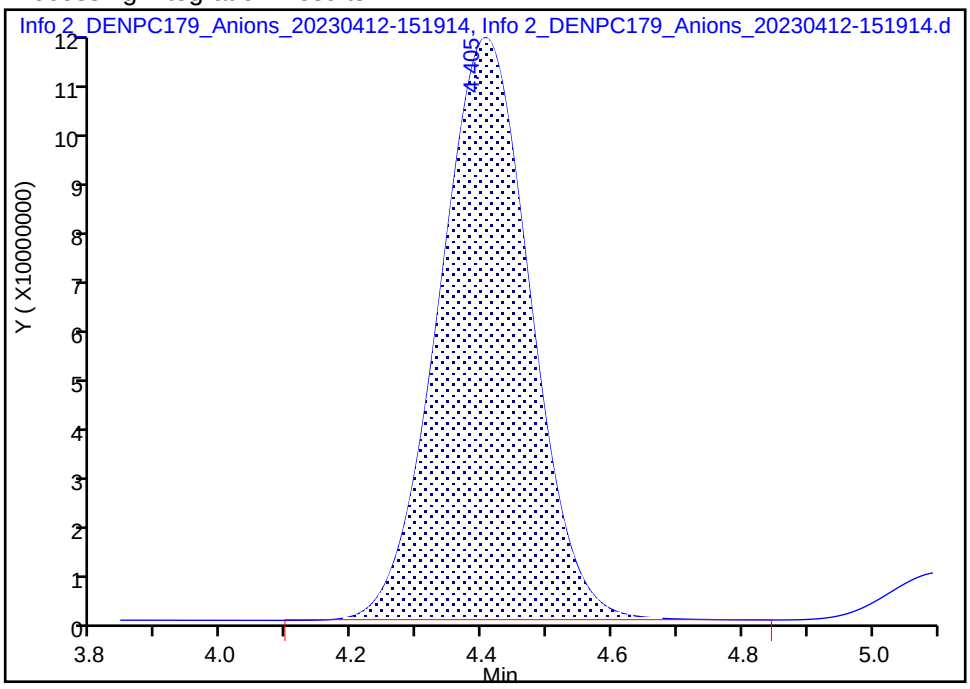
Column: Detector Info 2_091554_1

2 Chloride, CAS: 16887-00-6

Signal: 1

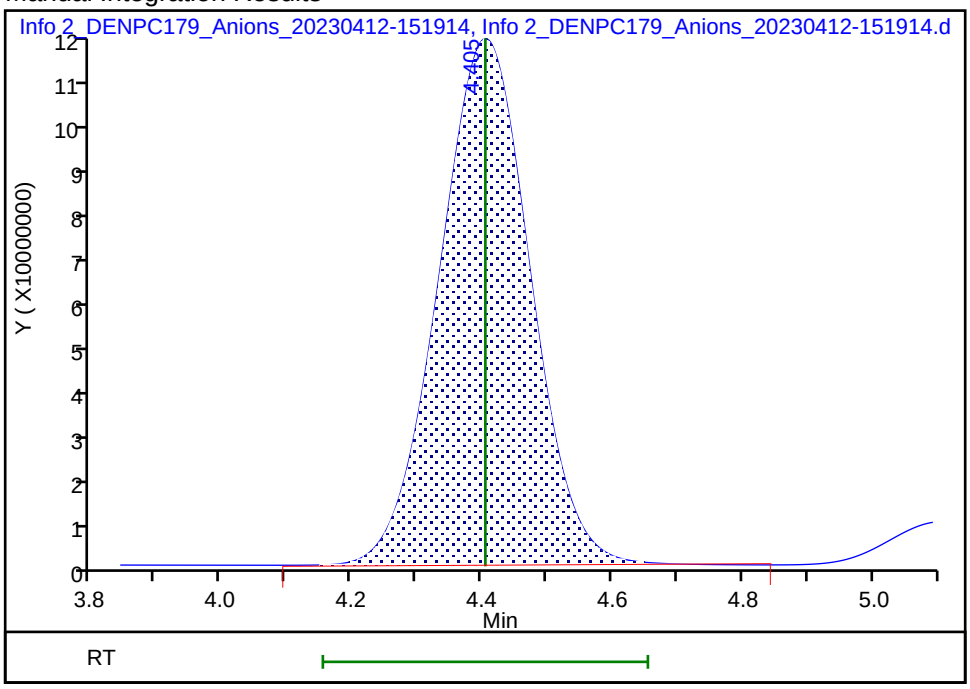
Processing Integration Results

RT: 4.41
Area: 1150534467
Amount: 60.058368
Amount Units: ug/ml



Manual Integration Results

RT: 4.41
Area: 1149686166
Amount: 60.047713
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:43:05

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-151

Injection Date: 12-Apr-2023 15:04:00 Instrument ID: WC_IonChrom10

Lims ID: STD L5

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

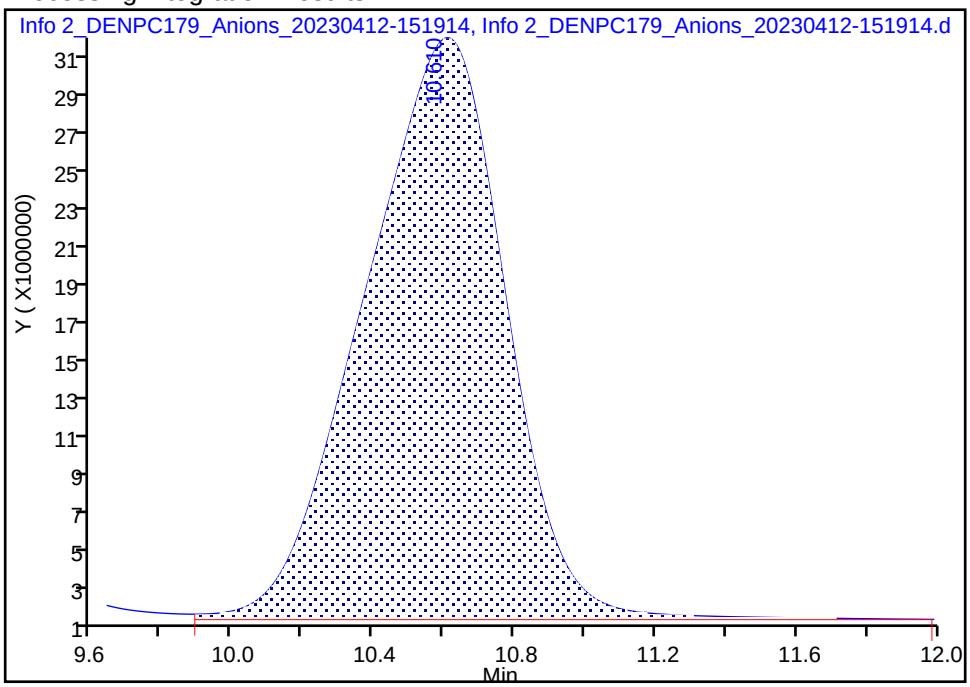
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

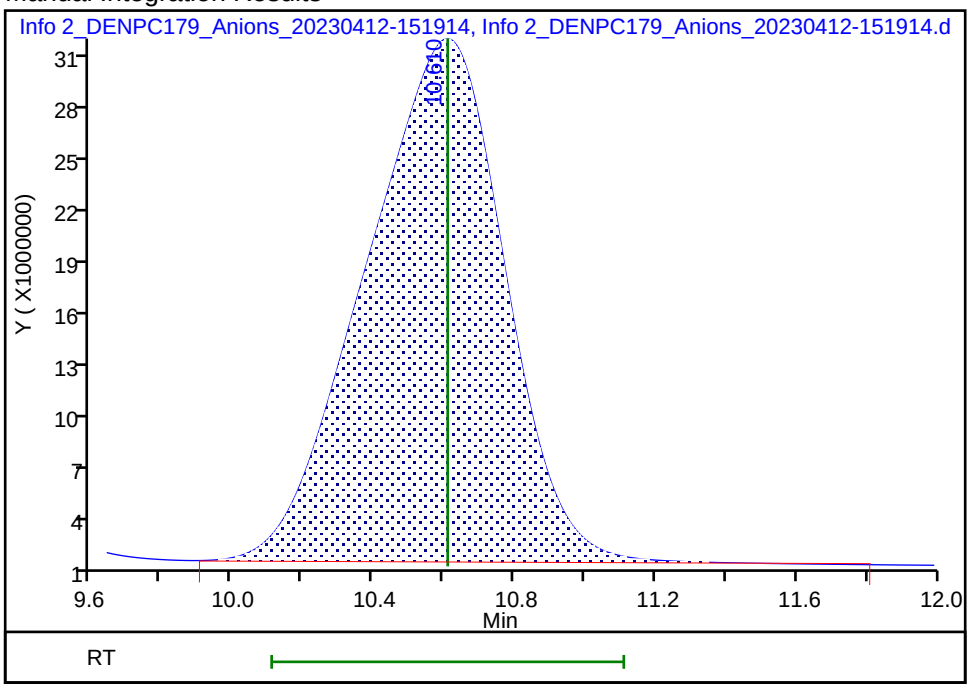
Processing Integration Results

RT: 10.61
Area: 849186271
Amount: 60.463432
Amount Units: ug/ml



Manual Integration Results

RT: 10.61
Area: 828007497
Amount: 60.079901
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:43:15

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153
Lims ID: STD L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 12-Apr-2023 15:19:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0120345-006
Misc. Info.: 280-0120345-006
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 14-Apr-2023 14:04:00 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1620

First Level Reviewer: LVW8 Date: 12-Apr-2023 17:08:50

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.175	3.175	0.000	190381963	5.00	4.97	Ma
2 Chloride	4.428	4.428	0.000	1914243902	100.0	99.9	M
3 Nitrite as N	5.103	5.103	0.000	229518060	NC	NC	M
4 Bromide	6.292	6.292	0.000	37078318	5.00	5.30	
5 Nitrate as N	7.057	7.057	0.000	230663663	NC	NC	M
6 Orthophosphate as P	9.353	9.353	0.000	112155923	NC	NC	M
7 Sulfate	10.592	10.592	0.000	1384314036	100.0	100.4	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

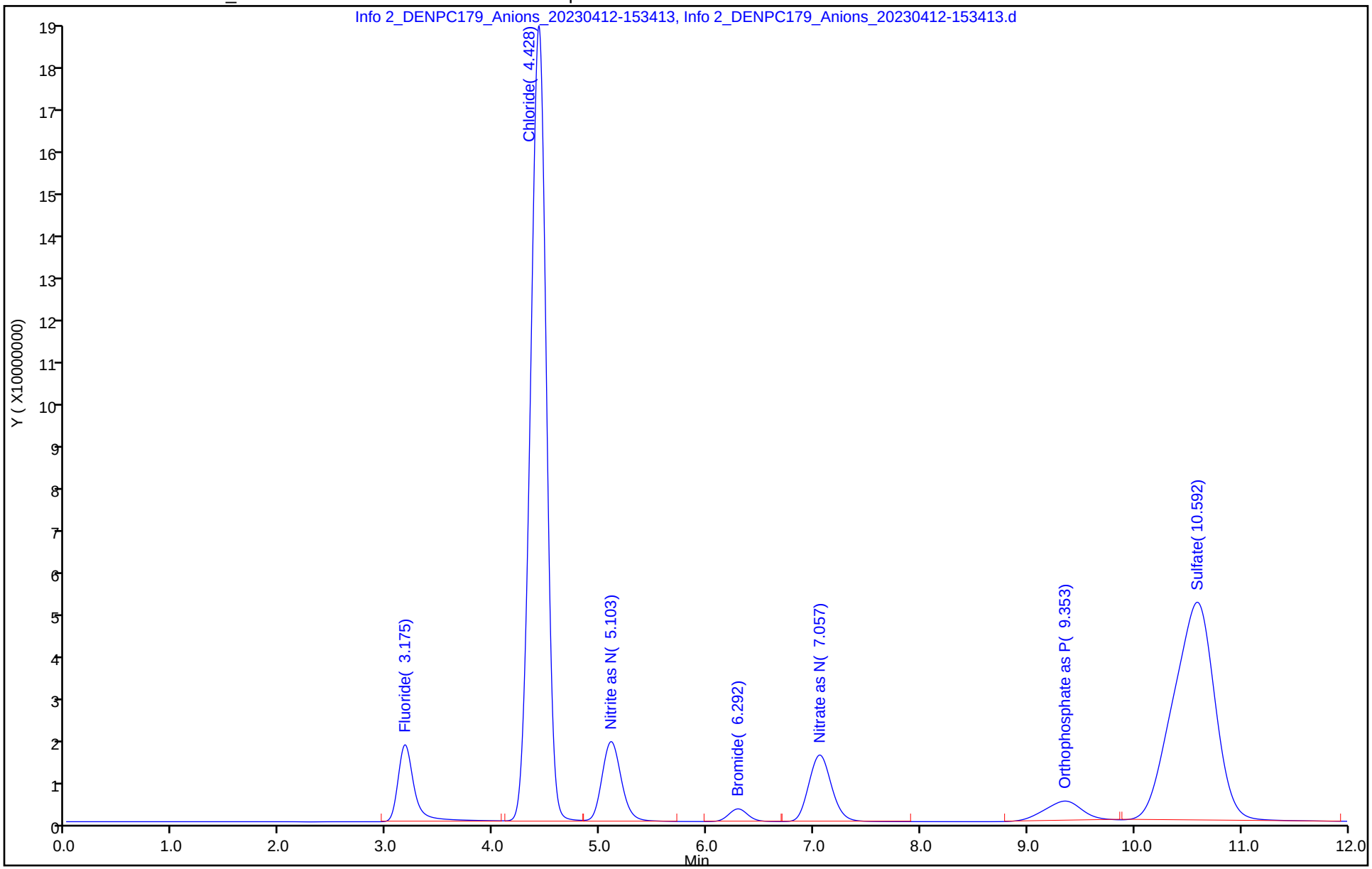
Reagents:

IC CAL cl/so4_00475 Amount Added: 8.00 Units: mL
IC Cal low_00703 Amount Added: 2.00 Units: mL

Report Date: 14-Apr-2023 14:04:01 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153413.d				
Injection Date:	12-Apr-2023 15:19:00	Instrument ID:	WC_IonChrom10	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_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Injection Date: 12-Apr-2023 15:19:00 Instrument ID: WC_IonChrom10

Lims ID: STD L6

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

Column: Detector Info 2_091554_1

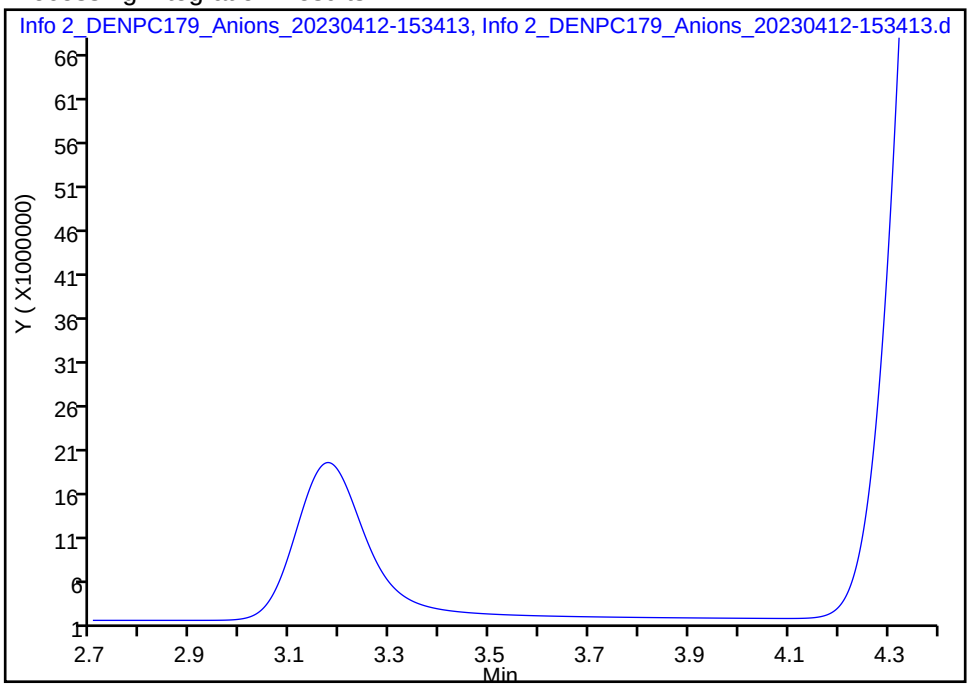
1 Fluoride, CAS: 16984-48-8

Signal: 1

Not Detected

Expected RT: 3.18

Processing Integration Results



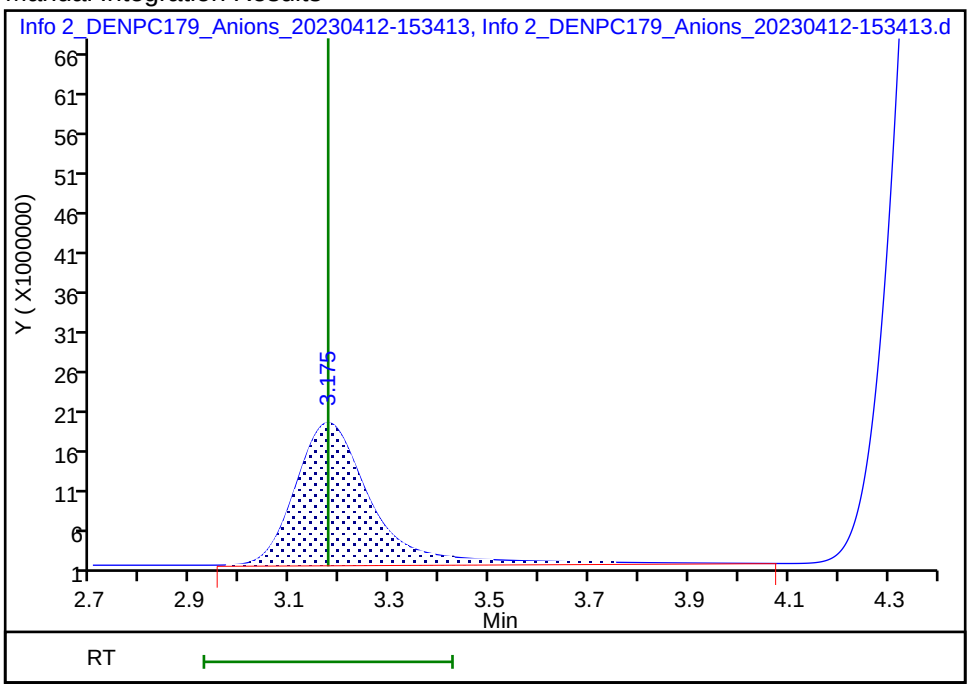
Manual Integration Results

RT: 3.18

Area: 190381963

Amount: 4.965012

Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:43:58

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Injection Date: 12-Apr-2023 15:19:00 Instrument ID: WC_IonChrom10

Lims ID: STD L6

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

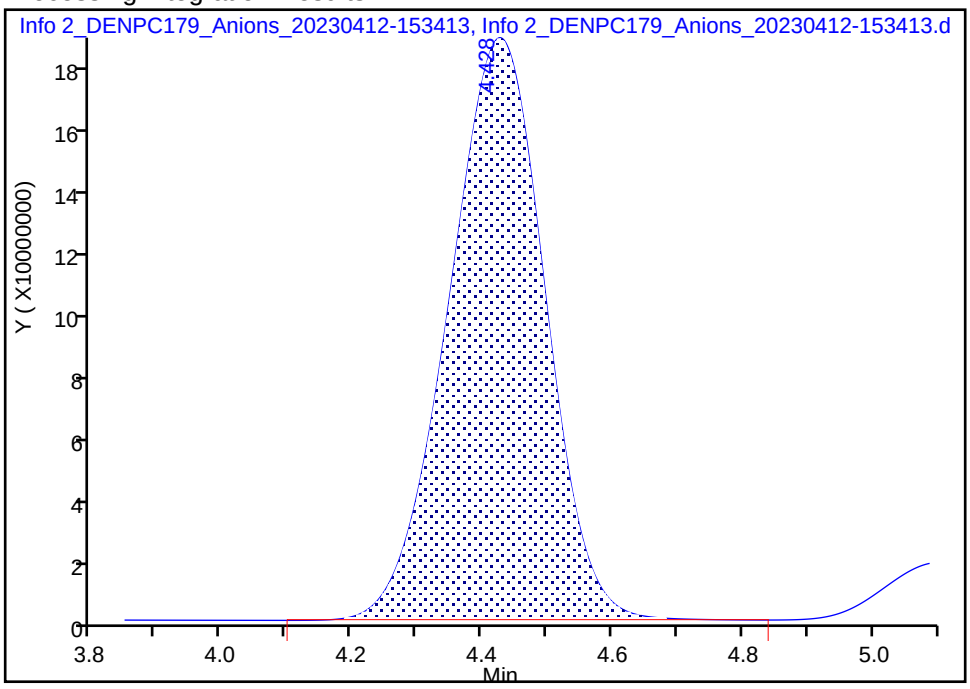
Column: Detector Info 2_091554_1

2 Chloride, CAS: 16887-00-6

Signal: 1

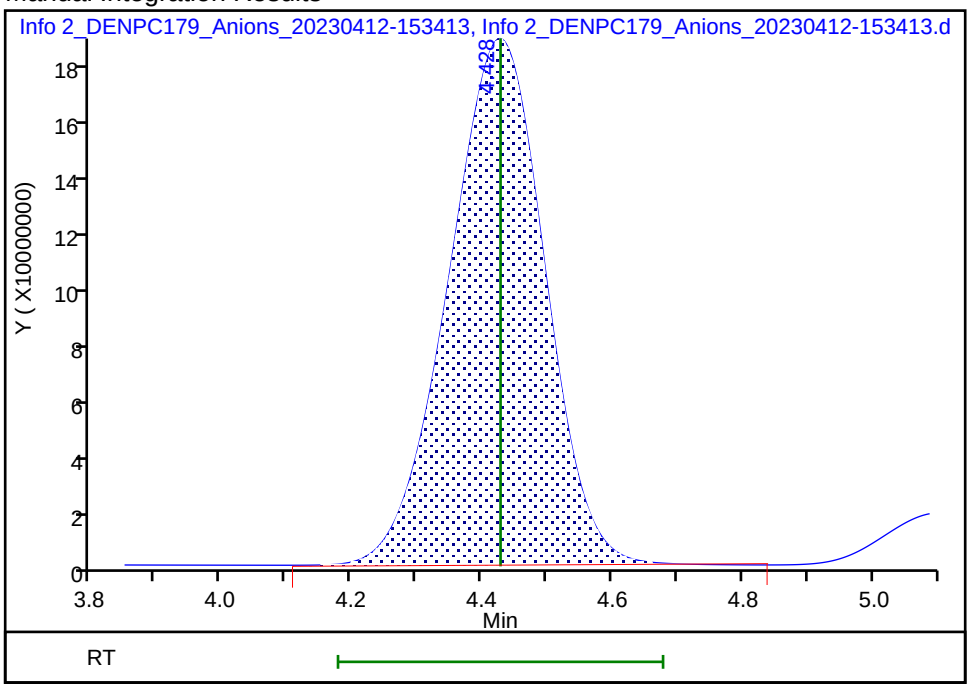
Processing Integration Results

RT: 4.43
Area: 1915444596
Amount: 99.918589
Amount Units: ug/ml



Manual Integration Results

RT: 4.43
Area: 1914243902
Amount: 99.889092
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:43:42

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Injection Date: 12-Apr-2023 15:19:00 Instrument ID: WC_IonChrom10

Lims ID: STD L6

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

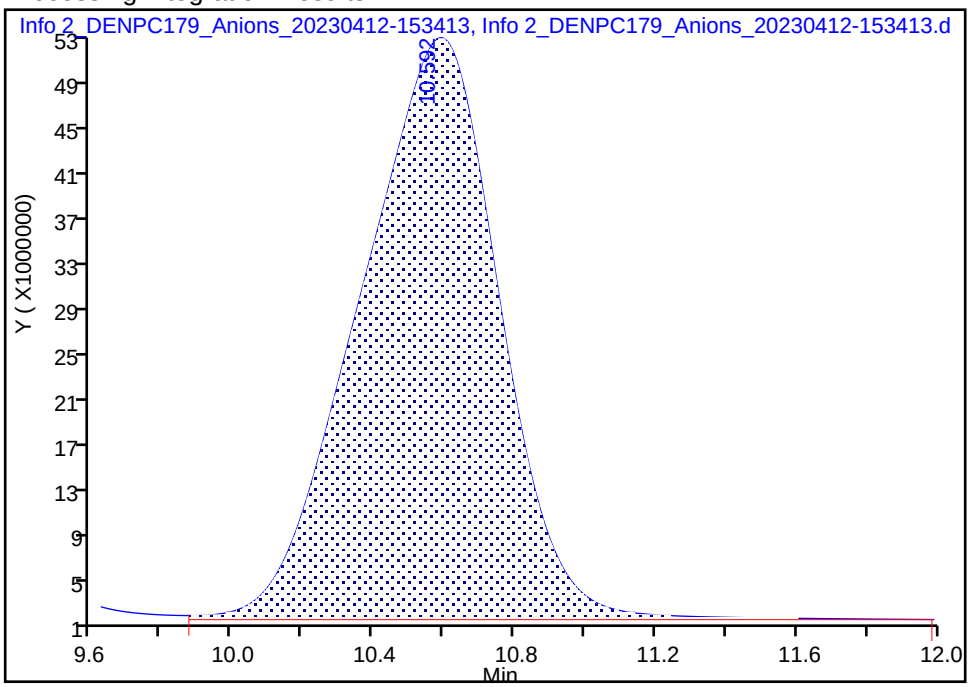
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

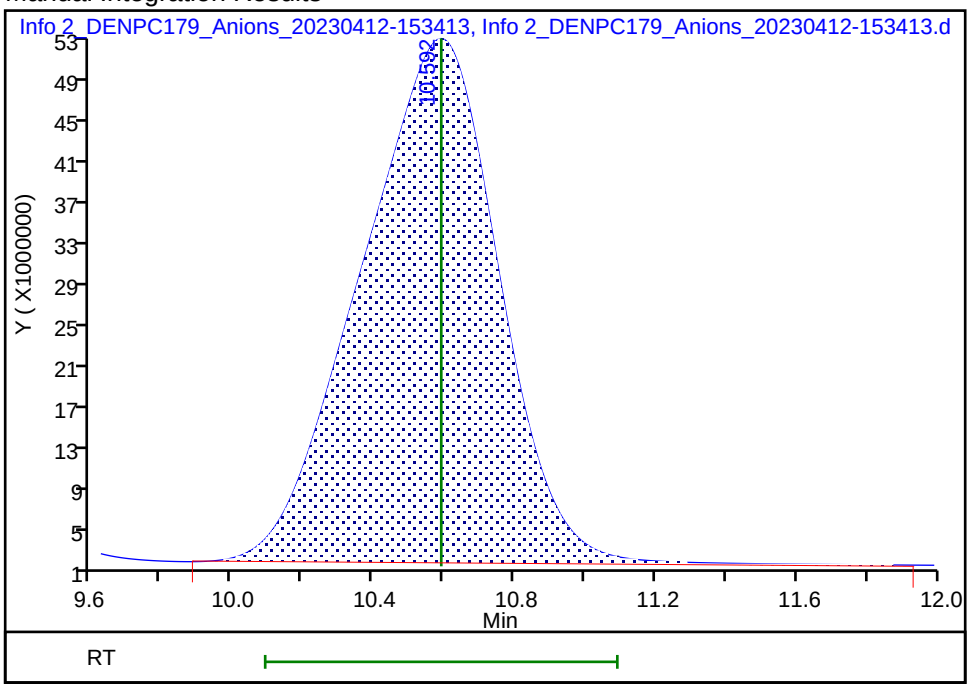
Processing Integration Results

RT: 10.59
Area: 1413345488
Amount: 101.3581
Amount Units: ug/ml



Manual Integration Results

RT: 10.59
Area: 1384314036
Amount: 100.3828
Amount Units: ug/ml



Reviewer: LVW8, 12-Apr-2023 15:43:52

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

IC Instrument Information

WL: 120345 **Inst ID:** IC16 **Analysis Date:** 04/12/23 **Analyst:** EJS

Rush	Job No.	Samples	Anions	QC Req	HT Exp
☐	174903	7	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	

Dilutions

Job No.	Samples	Anions	Dilution	Reason
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		

Eurofins Environment Testing America
Initial Calibration Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Instrument: WC_IonChrom10 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 13-Apr-2023 18:10:21
No.Compounds:7
Sublist: chrom-Anions_IC10*sub5
Limit Group: Wet - Anions

Detectors

Detector: 1, Info 2_091554_1
Data Type: ic Spec Type: none
Supports Extracted Chromatograms: False
Run Time: 0.000-14.900 No. Points: 7196

Calibration File Names

Level: 1 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14192
Inj Date: 12-Apr-2023 14:04:00 Worklist: 120345 Sample#: 1
Level: 2 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14341
Inj Date: 12-Apr-2023 14:19:00 Worklist: 120345 Sample#: 2
Level: 3 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14491
Inj Date: 12-Apr-2023 14:34:00 Worklist: 120345 Sample#: 3
Level: 4 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15041
Inj Date: 12-Apr-2023 14:49:00 Worklist: 120345 Sample#: 4
Level: 5 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15191
Inj Date: 12-Apr-2023 15:04:00 Worklist: 120345 Sample#: 5
Level: 6 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15341
Inj Date: 12-Apr-2023 15:19:00 Worklist: 120345 Sample#: 6

Start Cal Date: 12-Apr-2023 14:04:00 End Cal Date: 12-Apr-2023 15:19:00

Individual Compound Calibration Parameters

Quant Method: ESTD RF Calibration: Replace
Rule Name: Linear1 Curve: Linear Weighting: Conc
Origin: None Error: raw_COD Error Limit: 1.00
RF %Dif: 0.0 SPCC Limit: 0.0 CCC Limit: 0.0
Dependent Variable: Resp

Number of Compounds: 3

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error
3 Nitrite as N				Signal: 1					
40437065	43230492	44844044	46492699	45903612		-1277342			1.000
0.200000(2)	0.500000(3)	1.0000 (4)	2.5000 (5)	5.0000 (6)			46378611		
M8087413	M21615246	M44844044	M116231748	M229518060					
120345(2)	120345(3)	120345(4)	120345(5)	120345(6)					
5 Nitrate as N				Signal: 1					
42172205	39818610	42066844	45095286	46132733		-1634037			0.999
0.200000(2)	0.500000(3)	1.0000 (4)	2.5000 (5)	5.0000 (6)			45867680		
M8434441	M19909305	M42066844	M112738215	M230663663					
120345(2)	120345(3)	120345(4)	120345(5)	120345(6)					
6 Orthophosphate as P				Signal: 1			R1		
69769055	47259032	34760084	26027078	22431185		10983593			*0.990
0.200000(2)	0.500000(3)	1.0000 (4)	2.5000 (5)	5.0000 (6)			21157507		
M13953811	M23629516	M34760084	M65067694	M112155923					
120345(2)	120345(3)	120345(4)	120345(5)	120345(6)					

ICalib Error Legend
R1, Curve Fit Fail Error Limit Test

Eurofins Environment Testing America
Initial Calibration Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Instrument: WC_IonChrom10 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 13-Apr-2023 18:10:21
No.Compounds:7
Sublist: chrom-Anions_IC10*sub5
Limit Group: Wet - Anions 28D

Detectors

Detector: 1, Info 2_091554_1
Data Type: ic Spec Type: none
Supports Extracted Chromatograms: False
Run Time: 0.000-14.900 No. Points: 7196

Calibration File Names

Level: 1 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14192
Inj Date: 12-Apr-2023 14:04:00 Worklist: 120345 Sample#: 1
Level: 2 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14341
Inj Date: 12-Apr-2023 14:19:00 Worklist: 120345 Sample#: 2
Level: 3 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14491
Inj Date: 12-Apr-2023 14:34:00 Worklist: 120345 Sample#: 3
Level: 4 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15041
Inj Date: 12-Apr-2023 14:49:00 Worklist: 120345 Sample#: 4
Level: 5 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15191
Inj Date: 12-Apr-2023 15:04:00 Worklist: 120345 Sample#: 5
Level: 6 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15341
Inj Date: 12-Apr-2023 15:19:00 Worklist: 120345 Sample#: 6

Start Cal Date: 12-Apr-2023 14:04:00 End Cal Date: 12-Apr-2023 15:19:00

Individual Compound Calibration Parameters

Quant Method: ESTD RF Calibration: Replace
Rule Name: Linear1 Curve: Linear Weighting: Conc
Origin: None Error: raw_COD Error Limit: 1.00
RF %Dif: 0.0 SPCC Limit: 0.0 CCC Limit: 0.0
Dependent Variable: Resp

Number of Compounds: 4

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error

Report Date: 14-Apr-2023 13:55:19 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Preliminary Report

Eurofins Denver

ICV, ICal Verification Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 12-Apr-2023 15:34:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0120345-007
Misc. Info.: 280-0120345-007
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC7*sub4

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 14-Apr-2023 13:55:16 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15

Column 1 : Det: Info 2_091554_1
Process Host: CTX1620

Start Cal Date: 12-Apr-2023 14:04:00
End Cal Date: 12-Apr-2023 15:19:00

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
1 Fluoride	2.00	2.34	* 17.1	10.0	117.1	
2 Chloride	80.0	85.7	7.1	10.0	107.1	
4 Bromide	2.00	2.01	0.6	10.0	100.6	
7 Sulfate	80.0	86.9	8.7	10.0	108.7	

Report Date: 14-Apr-2023 13:56:13 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Preliminary Report

Eurofins Denver

ICV, ICal Verification Report

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15				
Lims ID:	ICV				
Client ID:					
Sample Type:	ICV				
Inject. Date:	12-Apr-2023 15:34:00	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-0120345-007				
Misc. Info.:	280-0120345-007				
Operator ID:	wetchemd	Instrument ID:	WC_IonChrom10		
Sublist:	chrom-Anions_IC7*sub4				
Method:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m				
Limit Group:	Wet - Anions				
Last Update:	14-Apr-2023 13:56:07	Calib Date:	12-Apr-2023 15:19:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15				
Column 1 :			Det: Info 2_091554_1		
Process Host:	CTX1620				
Start Cal Date:	12-Apr-2023 14:04:00				
End Cal Date:	12-Apr-2023 15:19:00				

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
3 Nitrite as N	2.00	2.12	6.0	10.0	106.0	
5 Nitrate as N	2.00	2.15	7.4	10.0	107.4	
6 Orthophosphate as	2.00	2.84	*41.9	10.0	141.9	

Report Date: 14-Apr-2023 14:06:59 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-154
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 12-Apr-2023 15:34:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0120345-007
Misc. Info.: 280-0120345-007
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC7*sub4

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 14-Apr-2023 14:06:59 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1620

First Level Reviewer: XAY4 Date: 13-Apr-2023 12:05:56

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.172	3.172	0.000	88983337	2.00	2.34	Ma
2 Chloride	4.423	4.423	0.000	1641996046	80.0	85.7	
3 Nitrite as N	5.112	5.112	0.000	97019728	NC	NC	M
4 Bromide	6.305	6.305	0.000	14681577	2.00	2.01	
5 Nitrate as N	7.087	7.087	0.000	96882220	NC	NC	
6 Orthophosphate as P	9.373	9.373	0.000	71034633	NC	NC	
7 Sulfate	10.593	10.593	0.000	1198792597	80.0	86.9	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

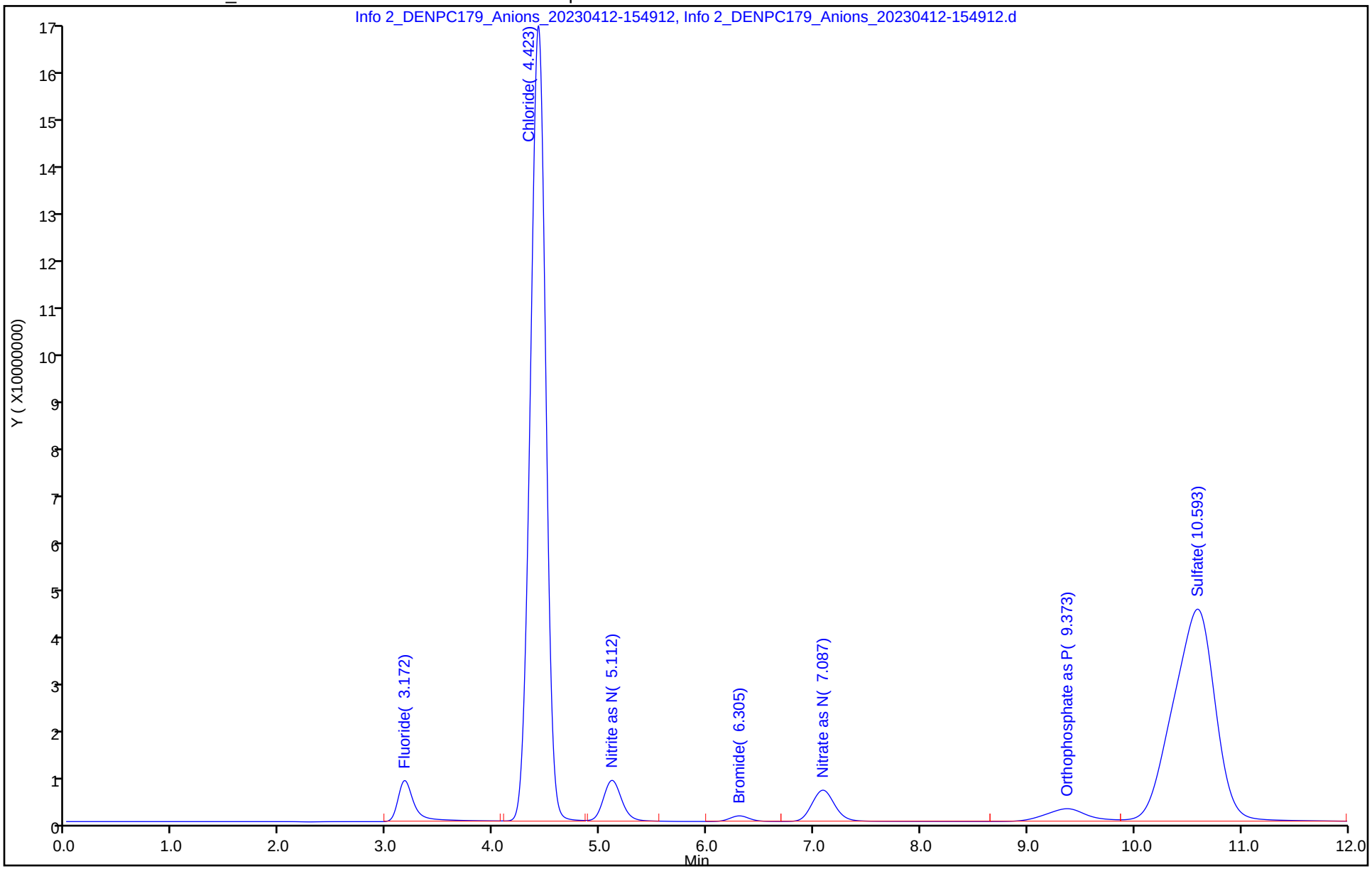
IC SO4 ICV_00024	Amount Added:	0.80	Units: mL
Cl ICV Std_00006	Amount Added:	0.80	Units: mL
IC ICV 5_00403	Amount Added:	0.80	Units: mL

Report Date: 14-Apr-2023 14:06:59 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-154912.d

Injection Date:	12-Apr-2023 15:34:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ICV			Worklist Smp#:	7
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-160
Lims ID: ICB
Client ID:
Sample Type: ICB
Inject. Date: 12-Apr-2023 15:49:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0120345-008
Misc. Info.: 280-0120345-008
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 14-Apr-2023 14:07:08 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1620

First Level Reviewer: XAY4 Date: 14-Apr-2023 14:07:17

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.172				ND	U
2 Chloride		4.397				ND	U
3 Nitrite as N		5.103				ND	
4 Bromide		6.293				ND	U
5 Nitrate as N		7.072				ND	
6 Orthophosphate as P	9.417	9.418	-0.001	14030813		NC	
7 Sulfate	10.600	10.602	-0.002	368472		0.1197	M

QC Flag Legend

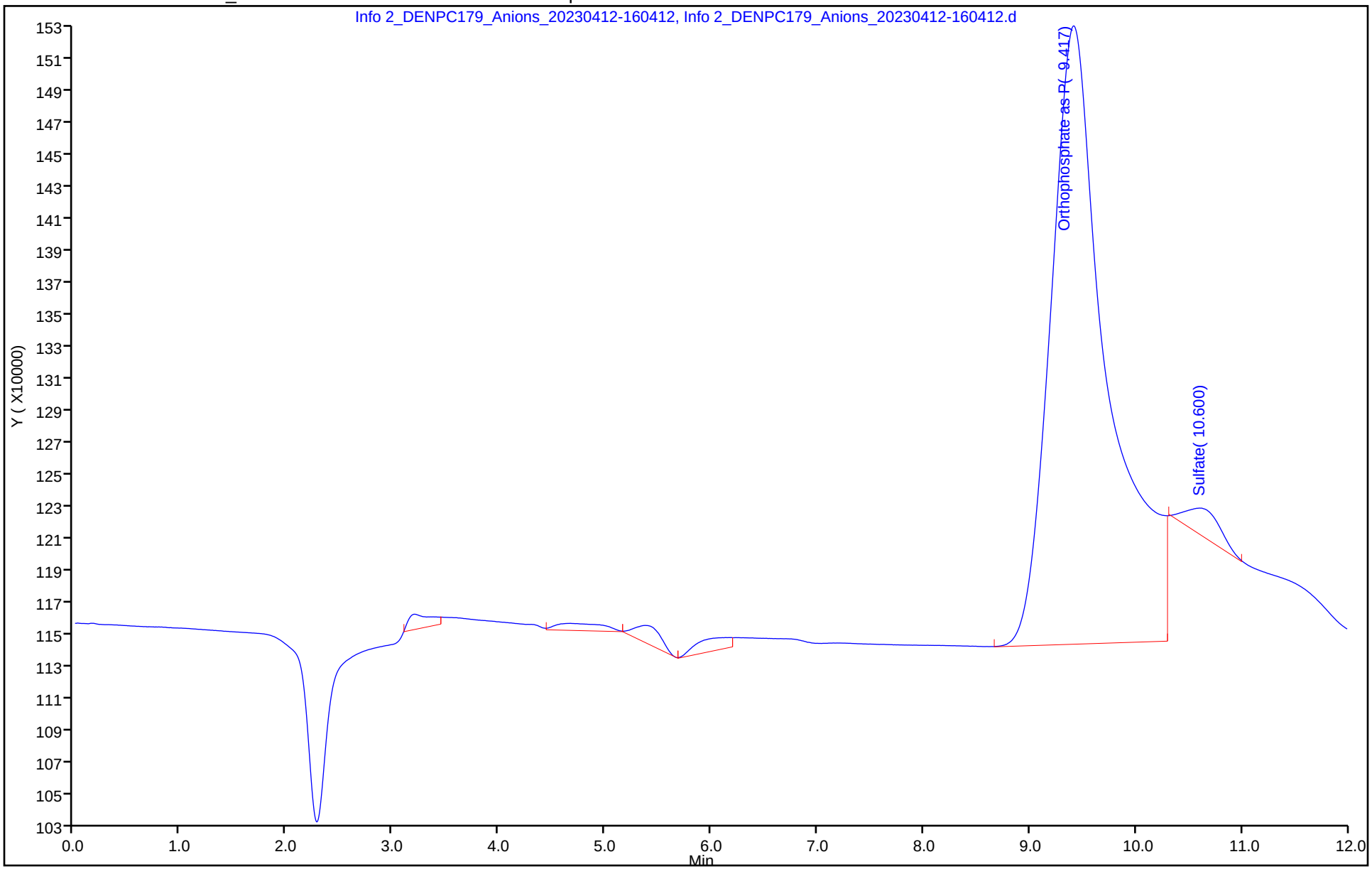
Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 14-Apr-2023 14:07:25 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-160412.d

Injection Date:	12-Apr-2023 15:49:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ICB			Worklist Smp#:	8
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-160

Injection Date: 12-Apr-2023 15:49:00 Instrument ID: WC_IonChrom10

Lims ID: ICB

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

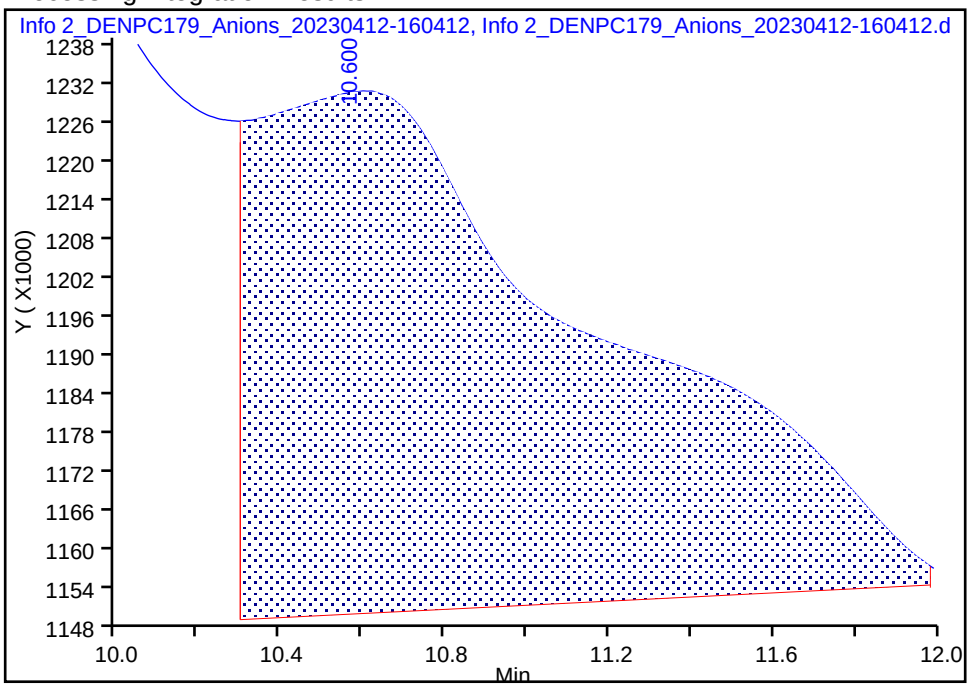
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

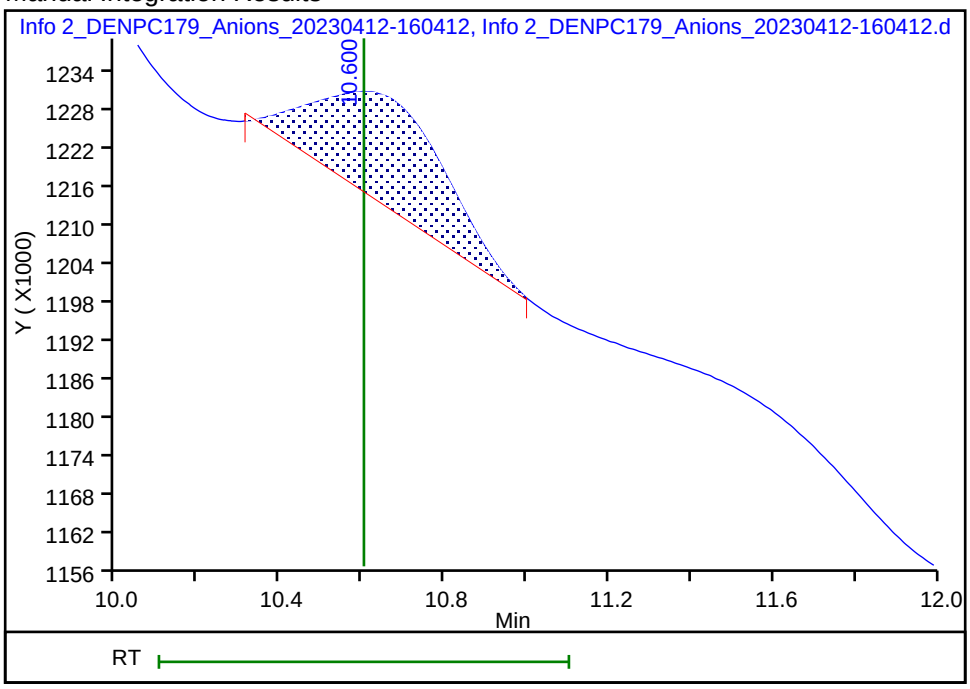
Processing Integration Results

RT: 10.60
Area: 4676250
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 10.60
Area: 368472
Amount: 0.119715
Amount Units: ug/ml



Reviewer: XAY4, 14-Apr-2023 14:01:28

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

IC Instrument Information

WL: 121544 **Inst ID:** IC10 **Analysis Date:** 5/17/23 **Analyst:** MEC

Rush	Job No.	Samples	Anions	QC Req	HT Exp
☐	176587	4	F (Cl) (NO2) Br (NO3) PO4 (SO4)	MS/D	
☐	176591	4	F Cl (NO2) Br (NO3) PO4 (SO4)	MS/D	
☐	176588	7	(F) (Cl) (NO2) Br (NO3) PO4 (SO4)	MS/D	
☐	176589	4	(F) (Cl) (NO2) Br (NO3) PO4 (SO4)	MS/D	
☐	176590	4	(F) (Cl) (NO2) (Br) (NO3) PO4 (SO4)	MS/D	
☐	176601	1	(F) Cl NO2 Br (NO3) PO4 SO4	MS/D	
☐	176555	1	F Cl NO2 Br (NO3) PO4 SO4	MS/D	
☐	176596	1	F (Cl) NO2 Br (NO3) PO4 (SO4)	MS/D	
☐	176593	1	F (Cl) NO2 Br (NO3) PO4 (SO4)	MS/D	
☐	176637	3	F Cl (NO2) Br (NO3) PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	

Dilutions

Job No.	Samples	Anions	Dilution	Reason
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		

Eurofins Environment Testing America
Initial Calibration Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Instrument: WC_IonChrom10 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 13-Apr-2023 18:10:21
No.Compounds:7
Sublist: chrom-Anions_IC10*sub5
Limit Group: Wet - Anions

Detectors

Detector: 1, Info 2_091554_1
Data Type: ic Spec Type: none
Supports Extracted Chromatograms: False
Run Time: 0.000-14.900 No. Points: 7196

Calibration File Names

Level: 1 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14192
Inj Date: 12-Apr-2023 14:04:00 Worklist: 120345 Sample#: 1
Level: 2 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14341
Inj Date: 12-Apr-2023 14:19:00 Worklist: 120345 Sample#: 2
Level: 3 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14491
Inj Date: 12-Apr-2023 14:34:00 Worklist: 120345 Sample#: 3
Level: 4 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15041
Inj Date: 12-Apr-2023 14:49:00 Worklist: 120345 Sample#: 4
Level: 5 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15191
Inj Date: 12-Apr-2023 15:04:00 Worklist: 120345 Sample#: 5
Level: 6 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15341
Inj Date: 12-Apr-2023 15:19:00 Worklist: 120345 Sample#: 6

Start Cal Date: 12-Apr-2023 14:04:00 End Cal Date: 12-Apr-2023 15:19:00

Individual Compound Calibration Parameters

Quant Method: ESTD RF Calibration: Replace
Rule Name: Linear1 Curve: Linear Weighting: Conc
Origin: None Error: raw_COD Error Limit: 1.00
RF %Dif: 0.0 SPCC Limit: 0.0 CCC Limit: 0.0
Dependent Variable: Resp

Number of Compounds: 3

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error
3 Nitrite as N				Signal: 1					
40437065	43230492	44844044	46492699	45903612		-1277342			1.000
0.200000(2)	0.500000(3)	1.0000 (4)	2.5000 (5)	5.0000 (6)			46378611		
M8087413	M21615246	M44844044	M116231748	M229518060					
120345(2)	120345(3)	120345(4)	120345(5)	120345(6)					
5 Nitrate as N				Signal: 1					
42172205	39818610	42066844	45095286	46132733		-1634037			0.999
0.200000(2)	0.500000(3)	1.0000 (4)	2.5000 (5)	5.0000 (6)			45867680		
M8434441	M19909305	M42066844	M112738215	M230663663					
120345(2)	120345(3)	120345(4)	120345(5)	120345(6)					
6 Orthophosphate as P				Signal: 1			R1		
69769055	47259032	34760084	26027078	22431185		10983593			*0.990
0.200000(2)	0.500000(3)	1.0000 (4)	2.5000 (5)	5.0000 (6)			21157507		
M13953811	M23629516	M34760084	M65067694	M112155923					
120345(2)	120345(3)	120345(4)	120345(5)	120345(6)					

ICalib Error Legend
R1, Curve Fit Fail Error Limit Test

Eurofins Environment Testing America
Initial Calibration Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m
Instrument: WC_IonChrom10 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 13-Apr-2023 18:10:21
No.Compounds:7
Sublist: chrom-Anions_IC10*sub5
Limit Group: Wet - Anions 28D

Detectors

Detector: 1, Info 2_091554_1
Data Type: ic Spec Type: none
Supports Extracted Chromatograms: False
Run Time: 0.000-14.900 No. Points: 7196

Calibration File Names

Level: 1 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14192
Inj Date: 12-Apr-2023 14:04:00 Worklist: 120345 Sample#: 1
Level: 2 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14341
Inj Date: 12-Apr-2023 14:19:00 Worklist: 120345 Sample#: 2
Level: 3 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-14491
Inj Date: 12-Apr-2023 14:34:00 Worklist: 120345 Sample#: 3
Level: 4 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15041
Inj Date: 12-Apr-2023 14:49:00 Worklist: 120345 Sample#: 4
Level: 5 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15191
Inj Date: 12-Apr-2023 15:04:00 Worklist: 120345 Sample#: 5
Level: 6 \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15341
Inj Date: 12-Apr-2023 15:19:00 Worklist: 120345 Sample#: 6

Start Cal Date: 12-Apr-2023 14:04:00 End Cal Date: 12-Apr-2023 15:19:00

Individual Compound Calibration Parameters

Quant Method: ESTD RF Calibration: Replace
Rule Name: Linear1 Curve: Linear Weighting: Conc
Origin: None Error: raw_COD Error Limit: 1.00
RF %Dif: 0.0 SPCC Limit: 0.0 CCC Limit: 0.0
Dependent Variable: Resp

Number of Compounds: 4

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error

Report Date: 14-Apr-2023 13:55:19 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Preliminary Report

Eurofins Denver

ICV, ICal Verification Report

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15				
Lims ID:	ICV				
Client ID:					
Sample Type:	ICV				
Inject. Date:	12-Apr-2023 15:34:00	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-0120345-007				
Misc. Info.:	280-0120345-007				
Operator ID:	wetchemd	Instrument ID:	WC_IonChrom10		
Sublist:	chrom-Anions_IC7*sub4				
Method:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m				
Limit Group:	Wet - Anions 28D				
Last Update:	14-Apr-2023 13:55:16	Calib Date:	12-Apr-2023 15:19:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15				
Column 1 :			Det: Info 2_091554_1		
Process Host:	CTX1620				
Start Cal Date:	12-Apr-2023 14:04:00				
End Cal Date:	12-Apr-2023 15:19:00				

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
1 Fluoride	2.00	2.34	* 17.1	10.0	117.1	
2 Chloride	80.0	85.7	7.1	10.0	107.1	
4 Bromide	2.00	2.01	0.6	10.0	100.6	
7 Sulfate	80.0	86.9	8.7	10.0	108.7	

Report Date: 14-Apr-2023 13:56:13 Chrom Revision: 2.3 29-Mar-2023 18:39:10

Preliminary Report

Eurofins Denver

ICV, ICal Verification Report

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15				
Lims ID:	ICV				
Client ID:					
Sample Type:	ICV				
Inject. Date:	12-Apr-2023 15:34:00	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-0120345-007				
Misc. Info.:	280-0120345-007				
Operator ID:	wetchemd	Instrument ID:	WC_IonChrom10		
Sublist:	chrom-Anions_IC7*sub4				
Method:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Anions_IC10.m				
Limit Group:	Wet - Anions				
Last Update:	14-Apr-2023 13:56:07	Calib Date:	12-Apr-2023 15:19:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-15				
Column 1 :			Det: Info 2_091554_1		
Process Host:	CTX1620				
Start Cal Date:	12-Apr-2023 14:04:00				
End Cal Date:	12-Apr-2023 15:19:00				

Compound	Amount Added	Amount Detected	%Drift	Max. %Drift	%Rec	%Rec Limits
3 Nitrite as N	2.00	2.12	6.0	10.0	106.0	
5 Nitrate as N	2.00	2.15	7.4	10.0	107.4	
6 Orthophosphate as	2.00	2.84	*41.9	10.0	141.9	

Report Date: 18-May-2023 10:40:07 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-120
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 17-May-2023 11:46:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-001
Misc. Info.: 280-0121544-001
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:07 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 17-May-2023 12:39:53

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			2.50	ND	
2 Chloride	4.308	4.308	0.000	922651946	50.0	48.2	M
3 Nitrite as N	4.997	4.997	0.000	106225117	NC	NC	M
4 Bromide	6.148	6.148	0.000	18850052	2.50	2.62	
5 Nitrate as N	6.905	6.905	0.000	109376280	NC	NC	M
6 Orthophosphate as P	9.023	9.023	0.000	59403999	NC	NC	
7 Sulfate	10.203	10.203	0.000	653851693	50.0	47.5	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

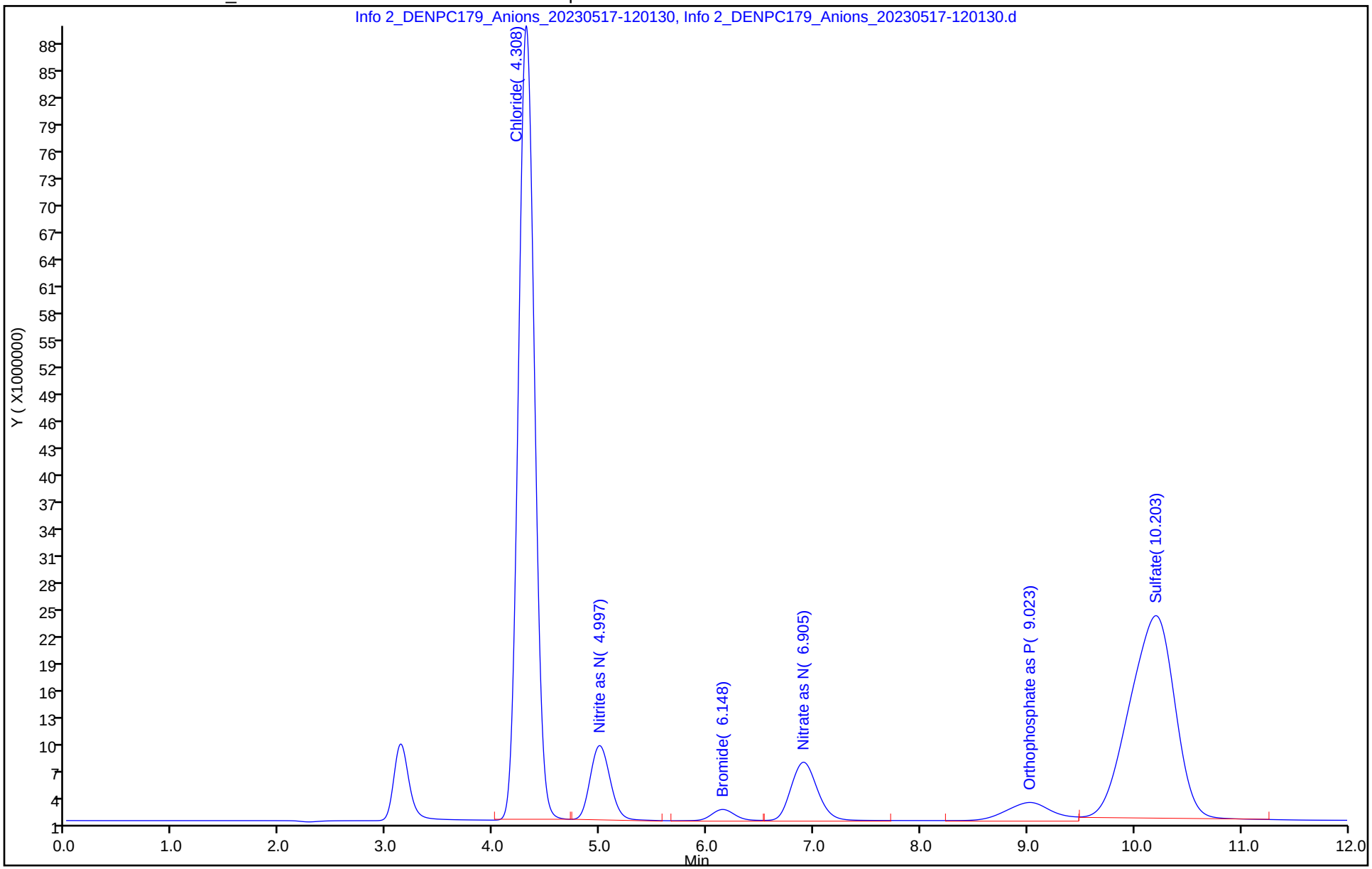
Reagents:

IC LCS_01954 Amount Added: 10.00 Units: mL

Report Date: 18-May-2023 10:40:07 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-120130.d				
Injection Date:	17-May-2023 11:46:00	Instrument ID:	WC_IonChrom10	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_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-120

Injection Date: 17-May-2023 11:46:00 Instrument ID: WC_IonChrom10

Lims ID: ccv

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 1

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

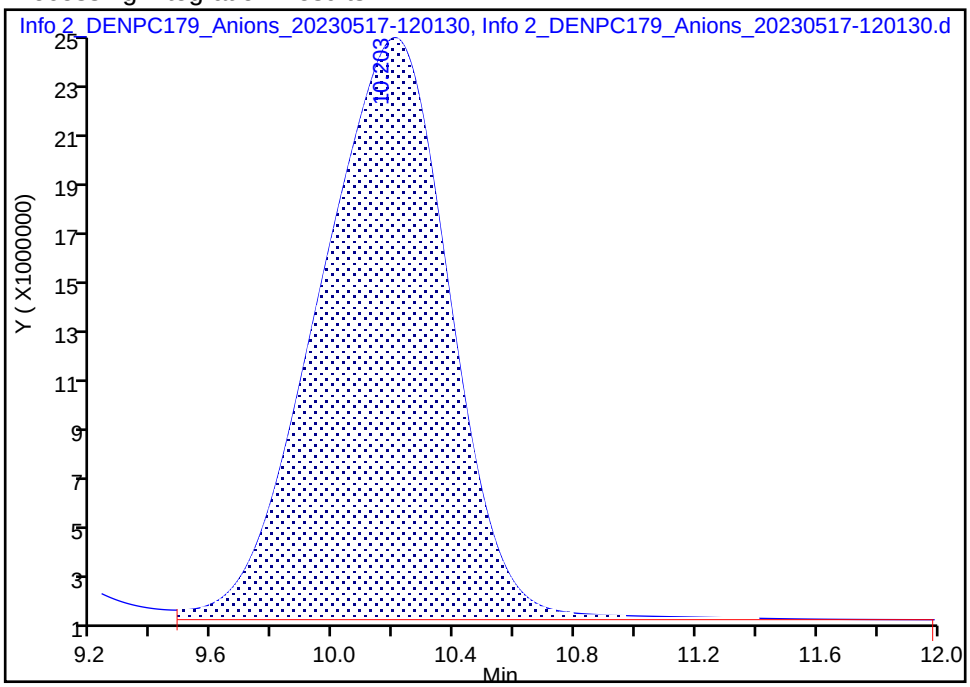
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

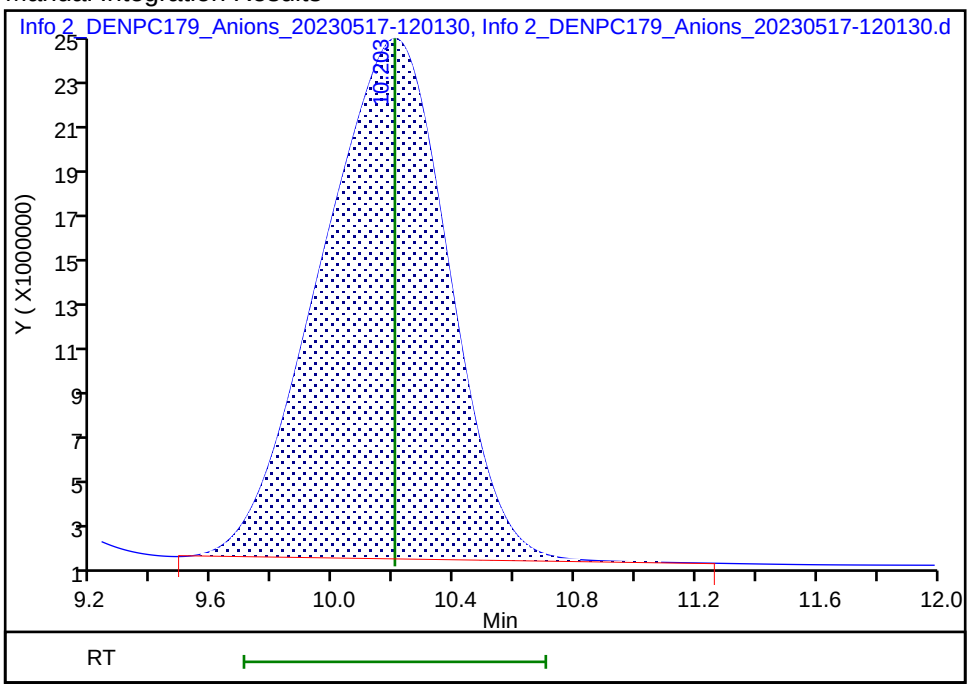
Processing Integration Results

RT: 10.20
Area: 682305493
Amount: 49.524189
Amount Units: ug/ml



Manual Integration Results

RT: 10.20
Area: 653851693
Amount: 47.462789
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:15:33 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-121
Lims ID: ccb
Client ID:
Sample Type: CCB
Inject. Date: 17-May-2023 12:01:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-002
Misc. Info.: 280-0121544-002
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:08 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:15:54

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143				ND	
2 Chloride		4.308				ND	
3 Nitrite as N		4.997				ND	U
4 Bromide		6.148				ND	U
5 Nitrate as N		6.905				ND	
6 Orthophosphate as P	9.103	9.103	0.000	8756139		NC	
7 Sulfate	10.277	10.277	0.000	1416826		0.1957	M

QC Flag Legend

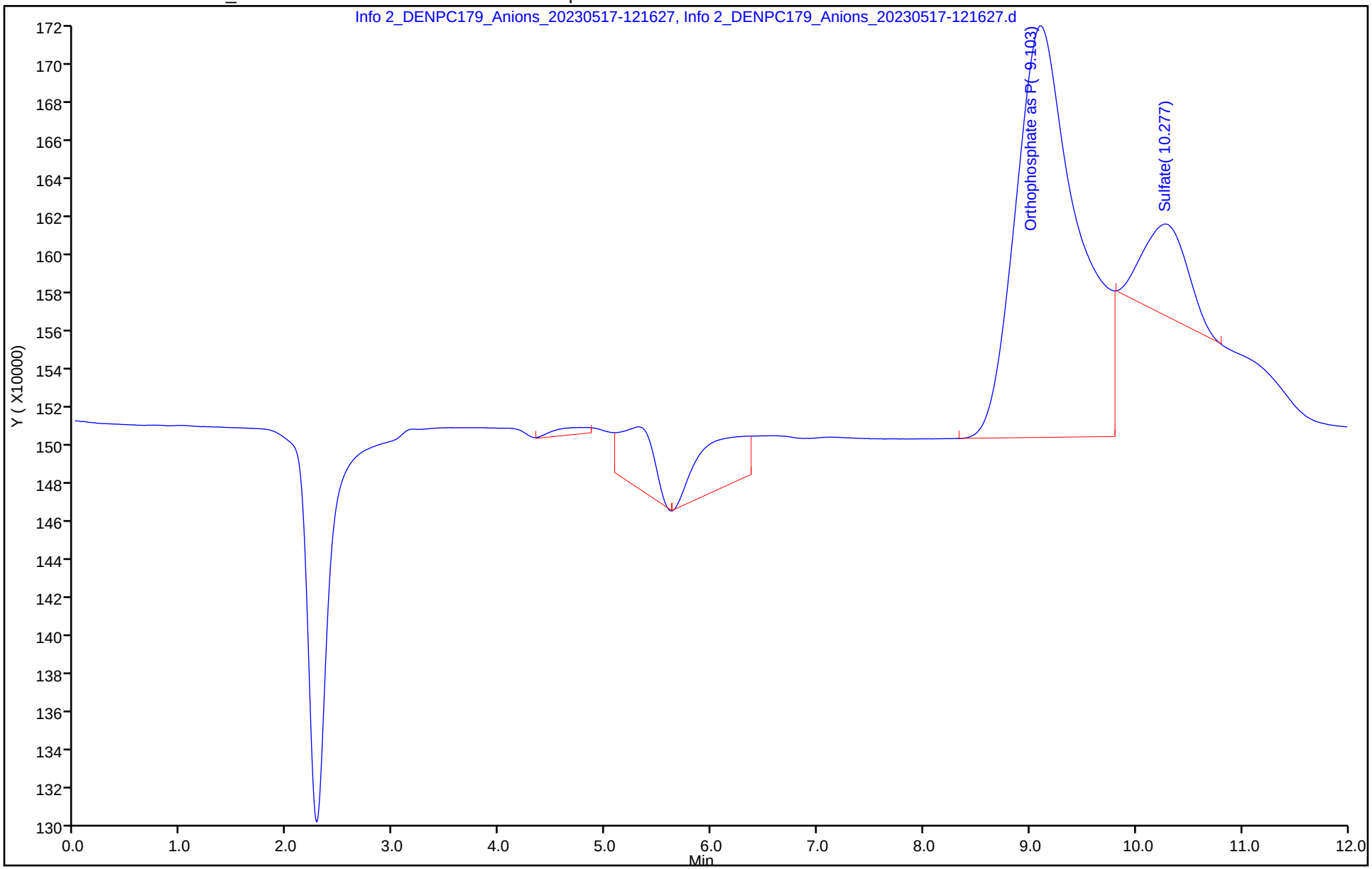
Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 18-May-2023 10:40:08 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-121627.d

Injection Date:	17-May-2023 12:01:00	Instrument ID:	WC_IonChrom10	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_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-121

Injection Date: 17-May-2023 12:01:00 Instrument ID: WC_IonChrom10

Lims ID: ccb

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 2

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

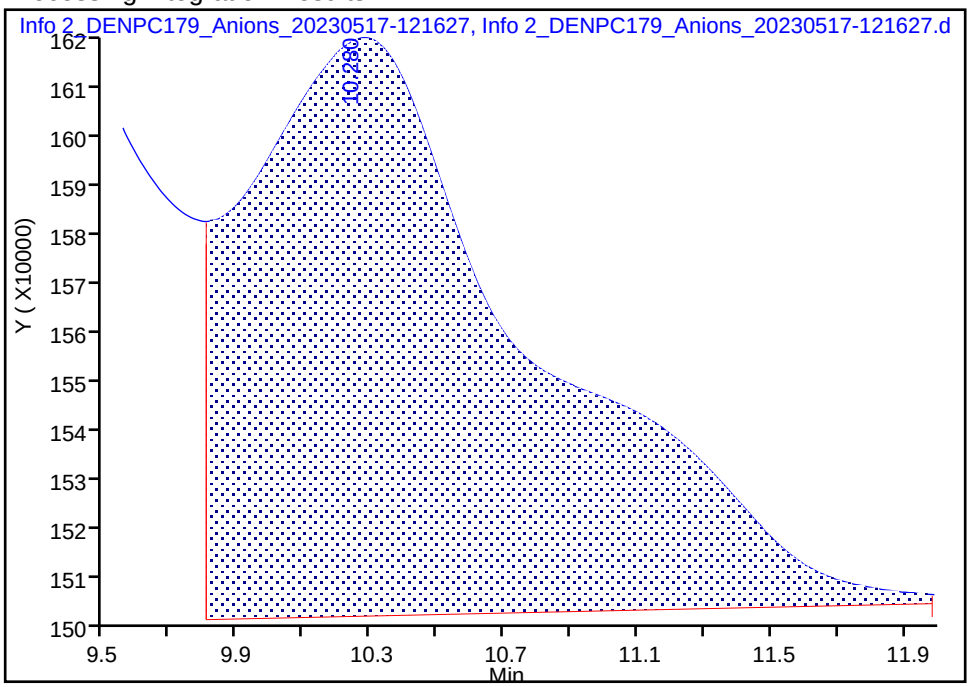
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

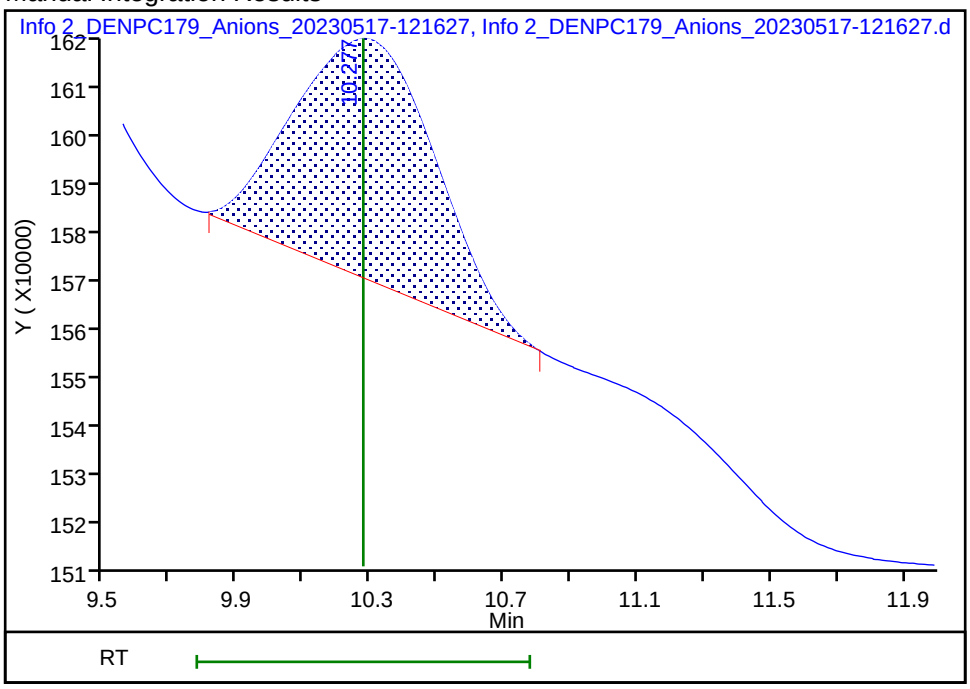
Processing Integration Results

RT: 10.28
Area: 6605330
Amount: 0.571558
Amount Units: ug/ml



Manual Integration Results

RT: 10.28
Area: 1416826
Amount: 0.195665
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:15:42 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-123
Lims ID: mrl
Client ID:
Sample Type: MRL
Inject. Date: 17-May-2023 12:16:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-003
Misc. Info.: 280-0121544-003
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:09 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:16:21

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	ND	
2 Chloride	4.297	4.297	0.000	44242405	2.50	2.44	M
3 Nitrite as N	5.000	5.000	0.000	9421134	NC	NC	M
4 Bromide	6.170	6.170	0.000	3245653	0.2500	0.3354	
5 Nitrate as N	6.953	6.953	0.000	9173050	NC	NC	M
6 Orthophosphate as P	9.083	9.083	0.000	14332353	NC	NC	
7 Sulfate	10.232	10.232	0.000	33892533	2.50	2.55	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

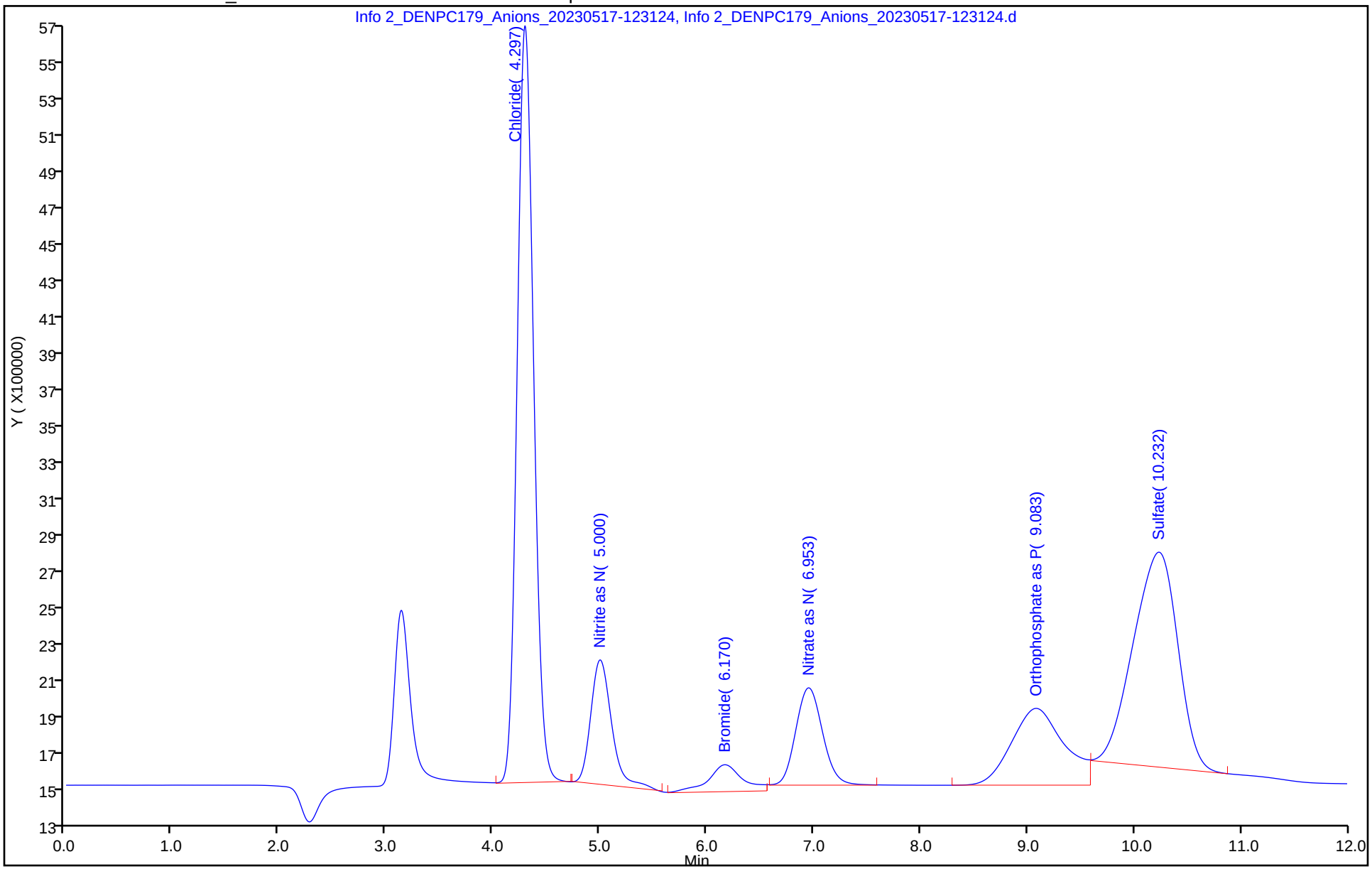
Reagents:

IC CAL cl/so4_00480 Amount Added: 0.20 Units: mL
IC Cal low_00709 Amount Added: 0.10 Units: mL

Report Date: 18-May-2023 10:40:09 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-123124.d				
Injection Date:	17-May-2023 12:16:00	Instrument ID:	WC_IonChrom10	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_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-123

Injection Date: 17-May-2023 12:16:00 Instrument ID: WC_IonChrom10

Lims ID: mrl

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

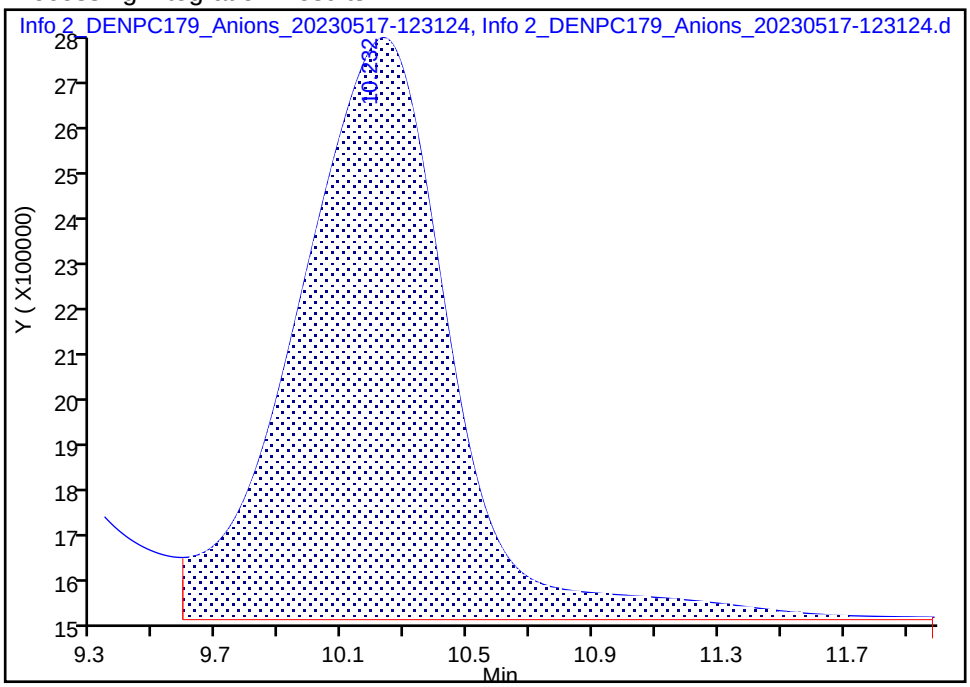
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

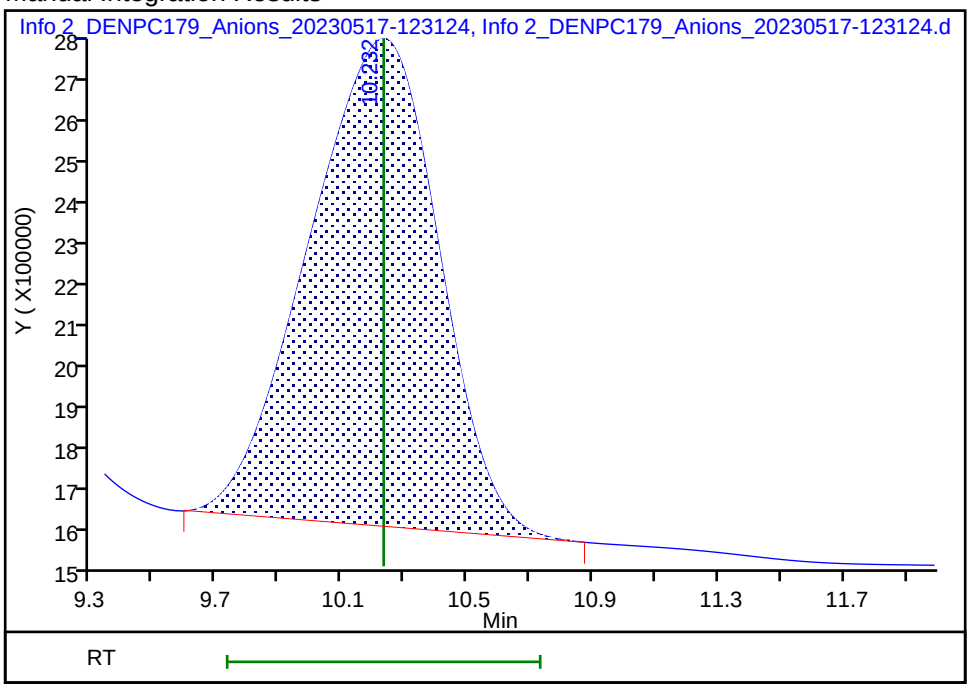
Processing Integration Results

RT: 10.23
Area: 43201913
Amount: 3.222881
Amount Units: ug/ml



Manual Integration Results

RT: 10.23
Area: 33892533
Amount: 2.548442
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:16:18 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-124
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 17-May-2023 12:31:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-004
Misc. Info.: 280-0121544-004
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:09 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 17-May-2023 13:33:48

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	ND	
2 Chloride	4.310	4.310	0.000	928177141	50.0	48.5	M
3 Nitrite as N	4.995	4.995	0.000	105722604	NC	NC	M
4 Bromide	6.153	6.153	0.000	18989153	2.50	2.64	
5 Nitrate as N	6.907	6.907	0.000	108998670	NC	NC	M
6 Orthophosphate as P	9.038	9.038	0.000	67385268	NC	NC	
7 Sulfate	10.217	10.217	0.000	664318237	50.0	48.2	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

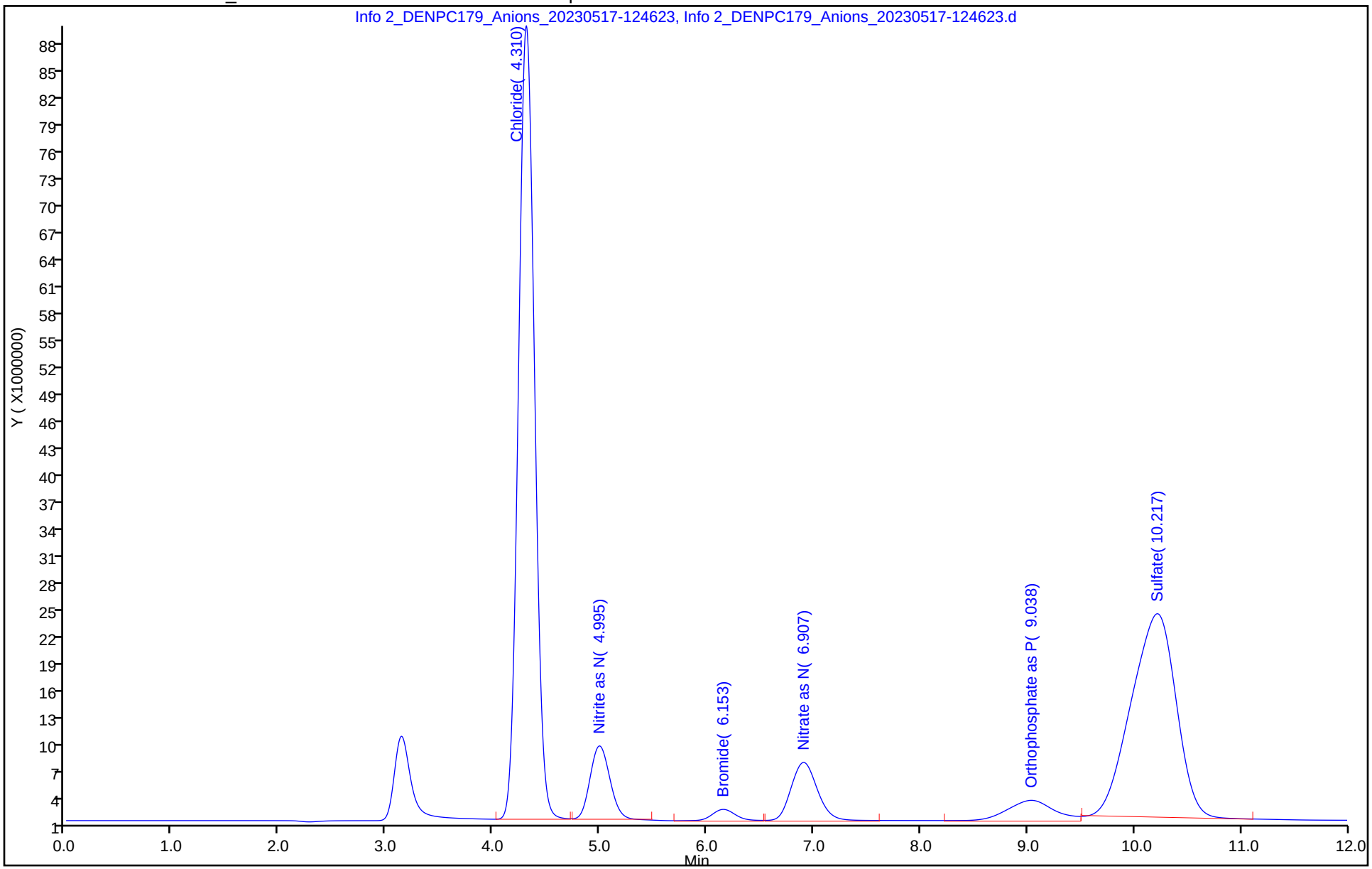
Reagents:

IC LCS_01954 Amount Added: 10.00 Units: mL

Report Date: 18-May-2023 10:40:10 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-124623.d				
Injection Date:	17-May-2023 12:31:00	Instrument ID:	WC_IonChrom10	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_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-124

Injection Date: 17-May-2023 12:31:00 Instrument ID: WC_IonChrom10

Lims ID: lcs

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

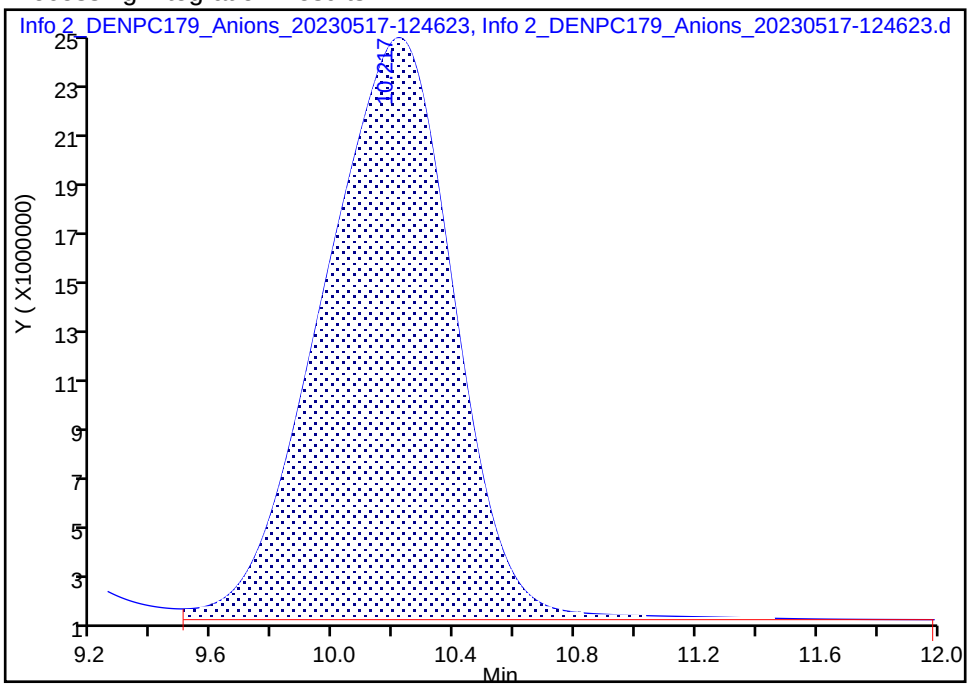
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

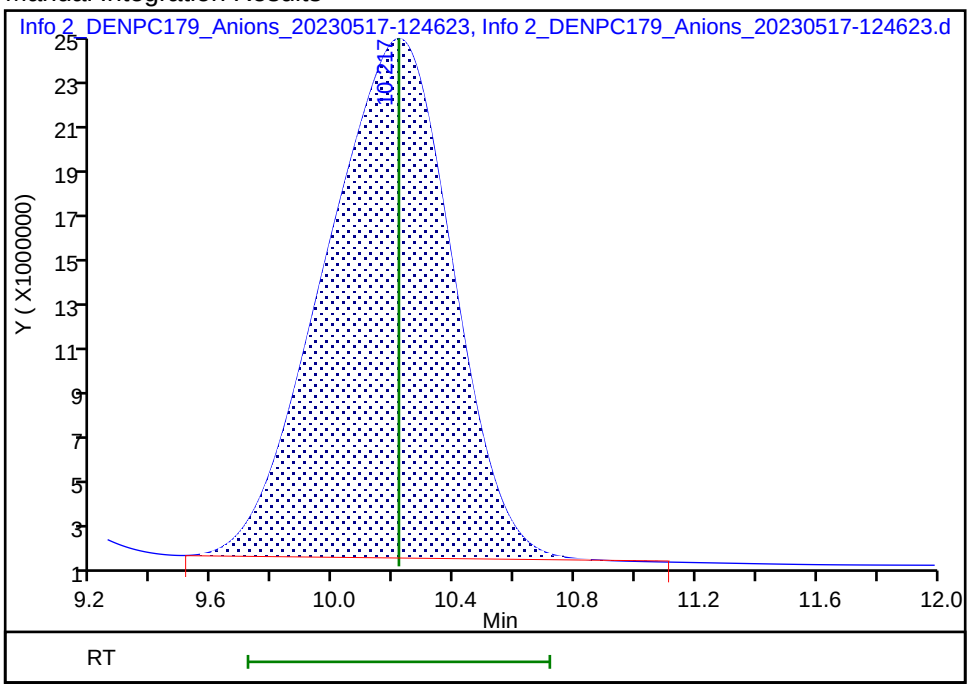
Processing Integration Results

RT: 10.22
Area: 697018190
Amount: 50.590084
Amount Units: ug/ml



Manual Integration Results

RT: 10.22
Area: 664318237
Amount: 48.221061
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:16:46 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-130
Lims ID: lcsd
Client ID:
Sample Type: LCSD
Inject. Date: 17-May-2023 12:46:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-005
Misc. Info.: 280-0121544-005
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:10 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:17:20

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	ND	
2 Chloride	4.310	4.310	0.000	931599134	50.0	48.7	M
3 Nitrite as N	4.995	4.995	0.000	106579204	NC	NC	M
4 Bromide	6.155	6.155	0.000	19050636	2.50	2.65	
5 Nitrate as N	6.907	6.907	0.000	109553484	NC	NC	M
6 Orthophosphate as P	9.040	9.040	0.000	69894856	NC	NC	
7 Sulfate	10.222	10.222	0.000	671045241	50.0	48.7	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

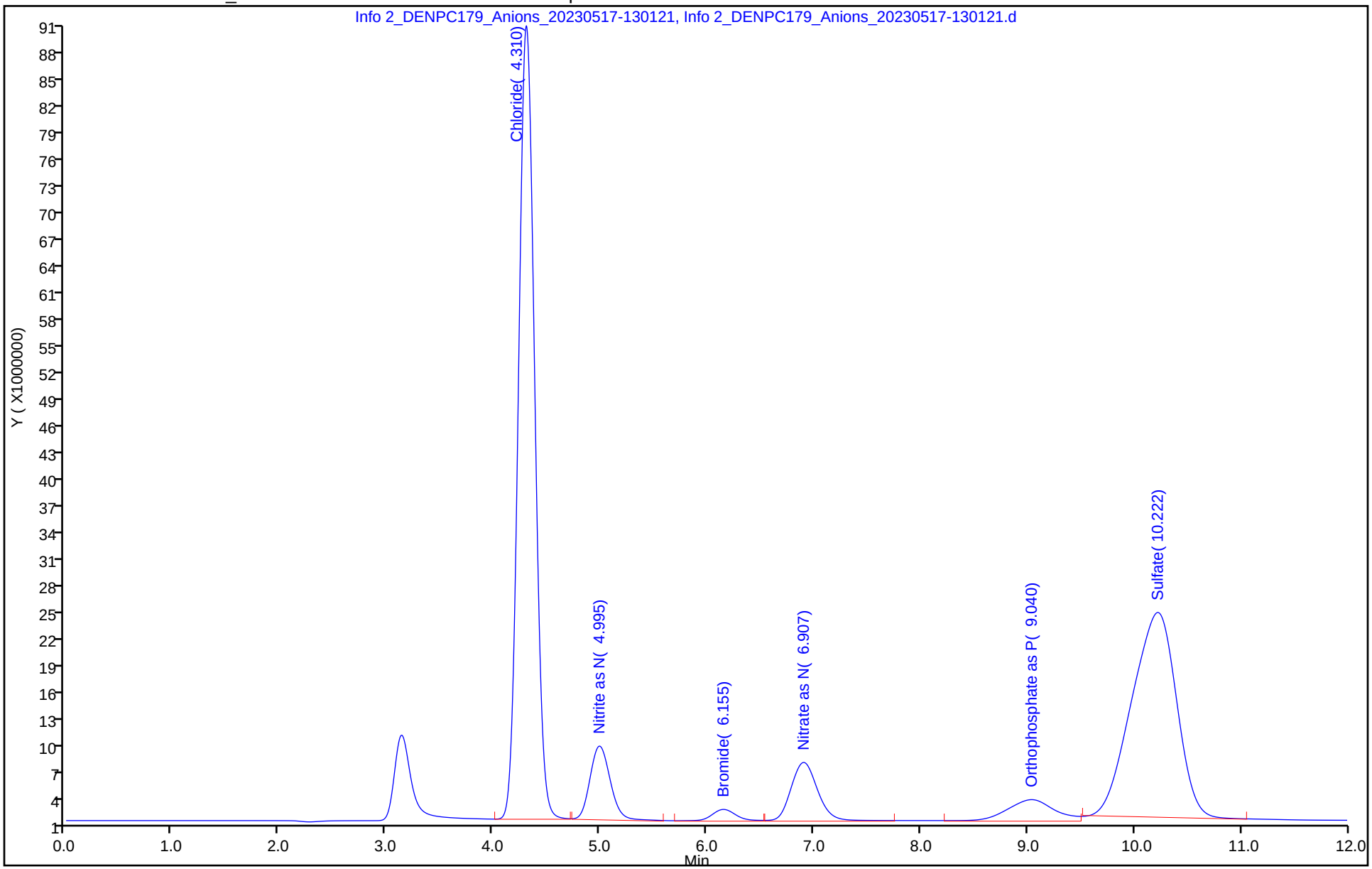
Reagents:

IC LCS_01954 Amount Added: 10.00 Units: mL

Report Date: 18-May-2023 10:40:10 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-130121.d				
Injection Date:	17-May-2023 12:46:00	Instrument ID:	WC_IonChrom10	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_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

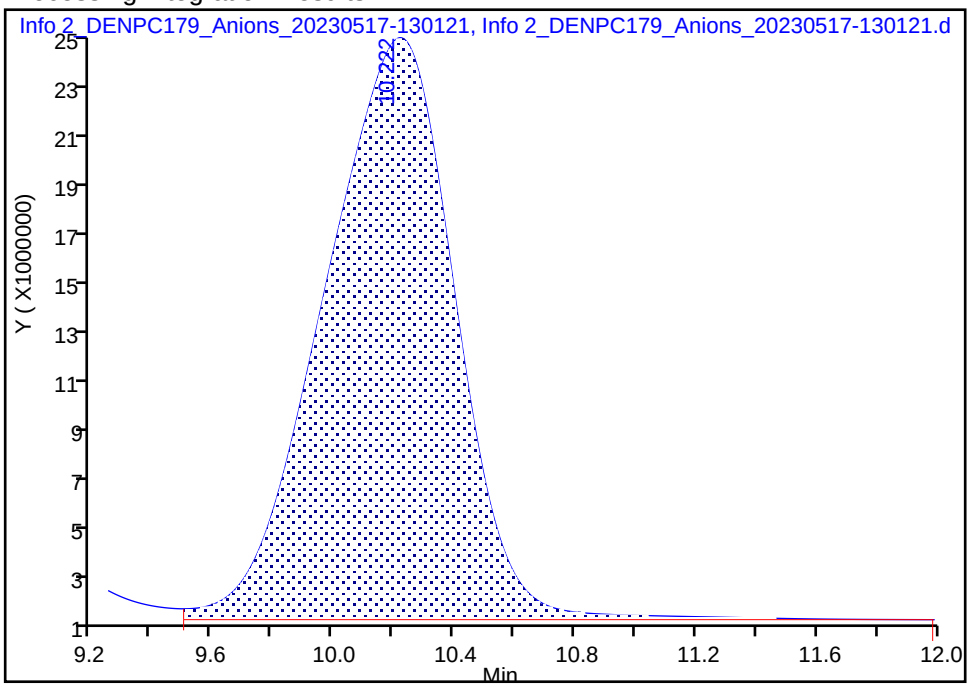
Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-130
Injection Date: 17-May-2023 12:46:00 Instrument ID: WC_IonChrom10
Lims ID: lcsd
Client ID:
Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: Anions_IC10 Limit Group: Wet - Anions 28D
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

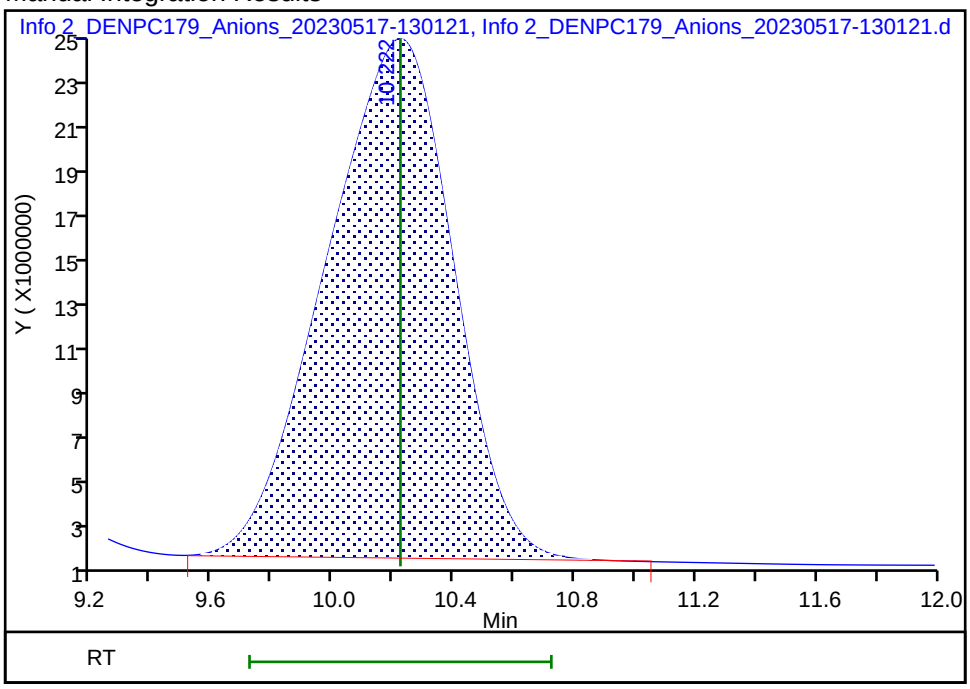
Processing Integration Results

RT: 10.22
Area: 704558553
Amount: 51.136362
Amount Units: ug/ml



Manual Integration Results

RT: 10.22
Area: 671045241
Amount: 48.708415
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:17:18 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-131
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 17-May-2023 13:01:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-006
Misc. Info.: 280-0121544-006
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:11 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:17:32

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143				ND	
2 Chloride		4.310				ND	
3 Nitrite as N		4.995				ND	
4 Bromide	6.233	6.233	0.000	669198		-0.0425	
5 Nitrate as N		6.907				ND	
6 Orthophosphate as P	9.110	9.110	0.000	13138069		NC	
7 Sulfate	10.285	10.285	0.000	1548987		0.2052	M

QC Flag Legend

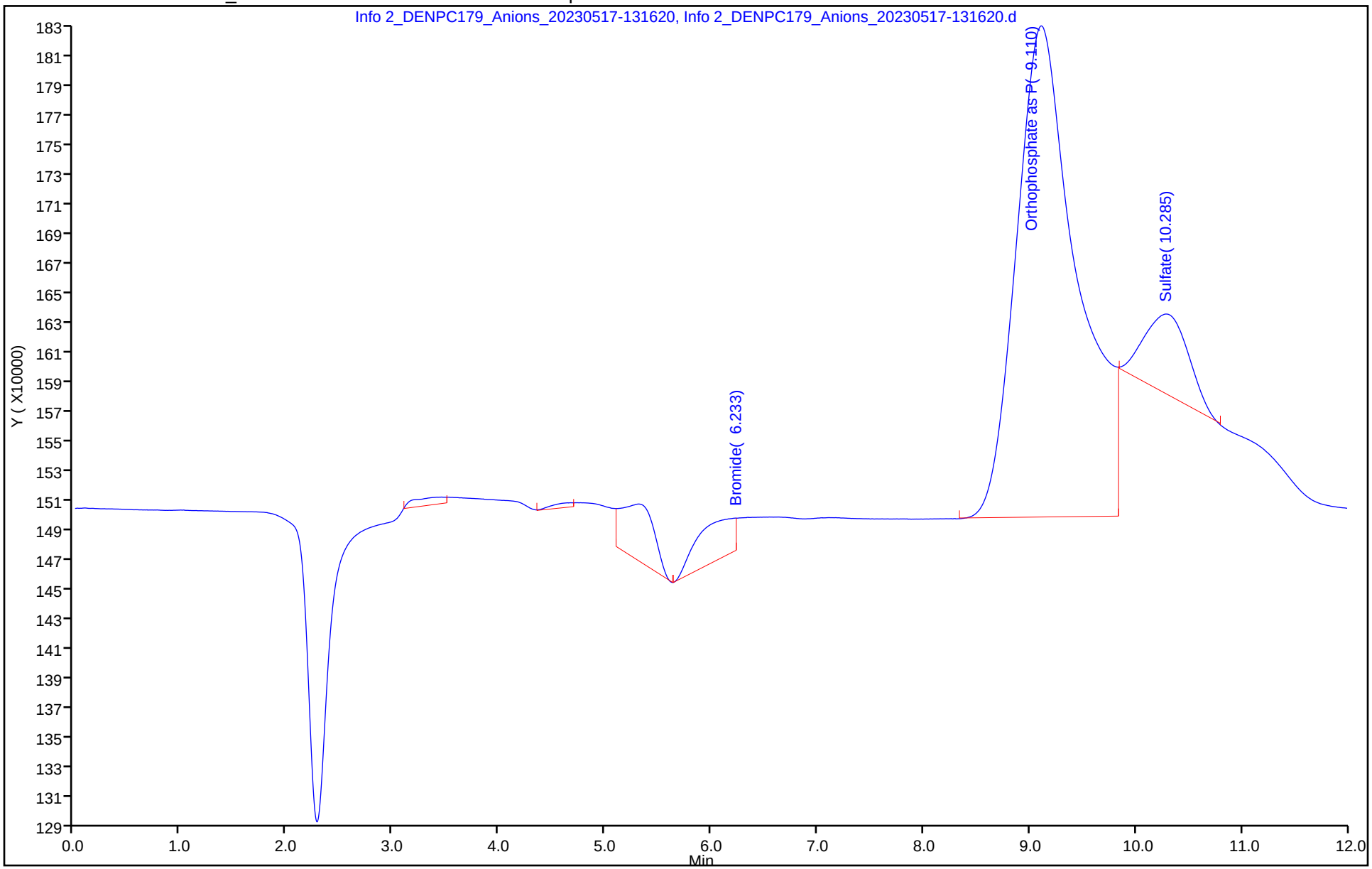
Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Report Date: 18-May-2023 10:40:11 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-131620.d

Injection Date:	17-May-2023 13:01:00	Instrument ID:	WC_IonChrom10	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_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-131

Injection Date: 17-May-2023 13:01:00 Instrument ID: WC_IonChrom10

Lims ID: mb

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

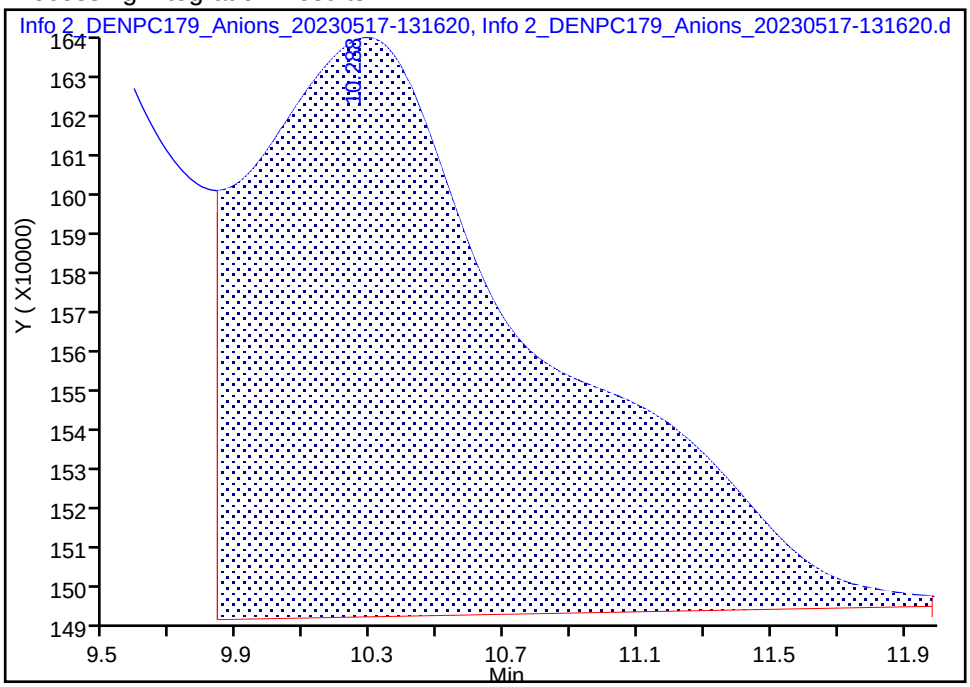
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

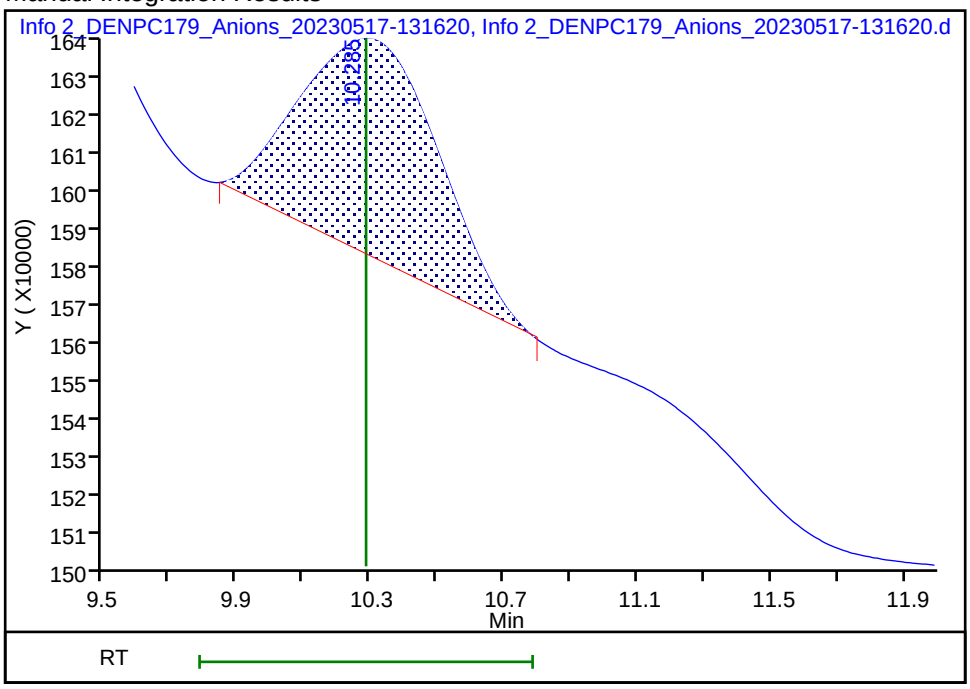
Processing Integration Results

RT: 10.29
Area: 8173313
Amount: 0.685155
Amount Units: ug/ml



Manual Integration Results

RT: 10.29
Area: 1548987
Amount: 0.205240
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:17:30 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-142
Lims ID: 280-176591-C-6
Client ID: WBGmw-018-230401-GW
Sample Type: Client
Inject. Date: 17-May-2023 14:11:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-010
Misc. Info.: 280-0121544-010
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:11 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:18:57

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	
2 Chloride	4.302	4.310	-0.008	13992442	0.8663	
3 Nitrite as N		4.995			ND	
4 Bromide	6.220	6.233	-0.013	2546302	0.2328	
5 Nitrate as N	6.967	6.907	0.060	19167861	NC	M
6 Orthophosphate as P	9.153	9.110	0.043	5175534	NC	
7 Sulfate	10.257	10.285	-0.028	130990299	9.58	M

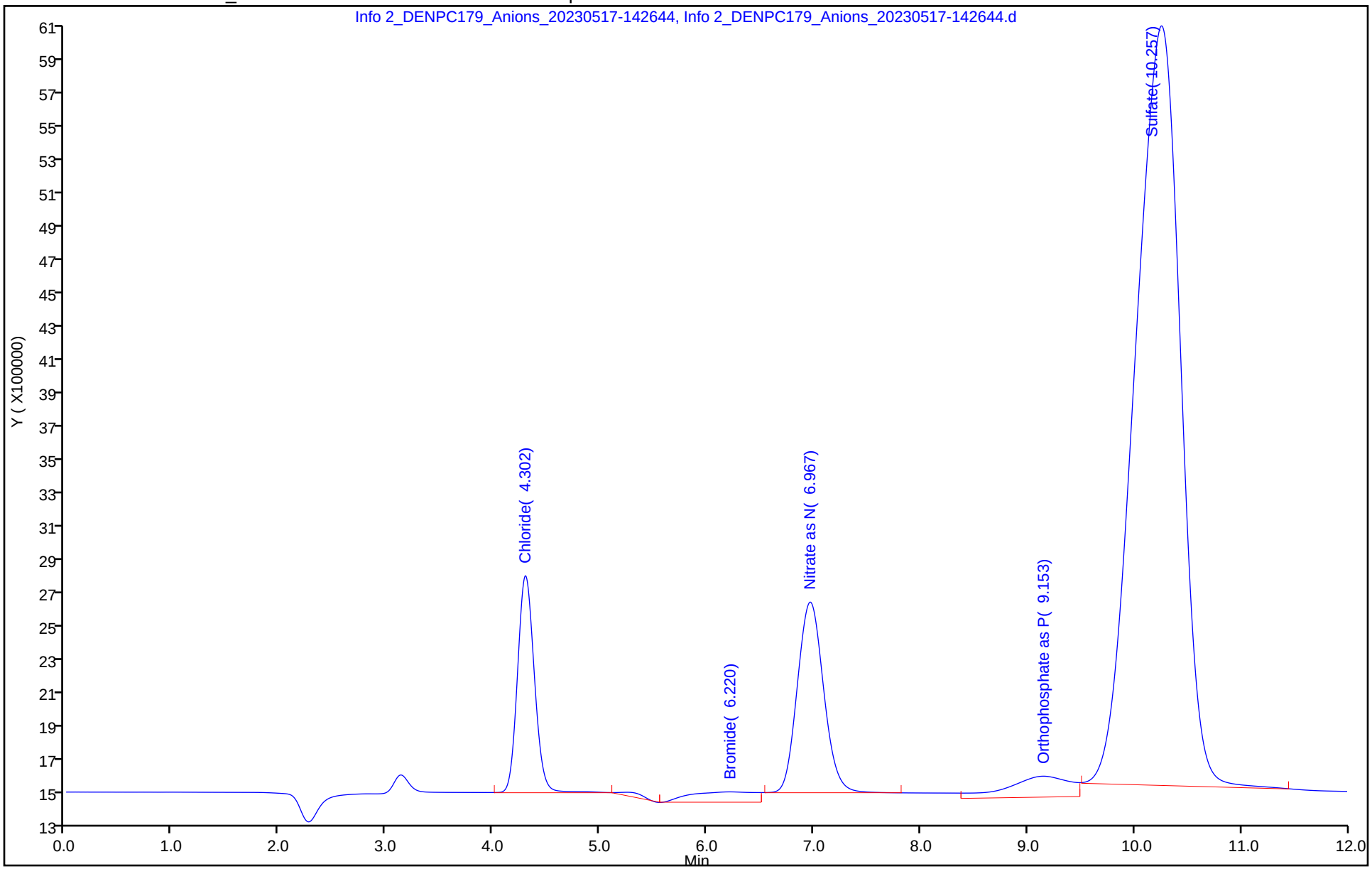
QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Report Date: 18-May-2023 10:40:14 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-142644.d				
Injection Date:	17-May-2023 14:11:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	280-176591-C-6	Lab Sample ID:	280-176591-6	Worklist Smp#:	10
Client ID:	WBGmw-018-230401-GW				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

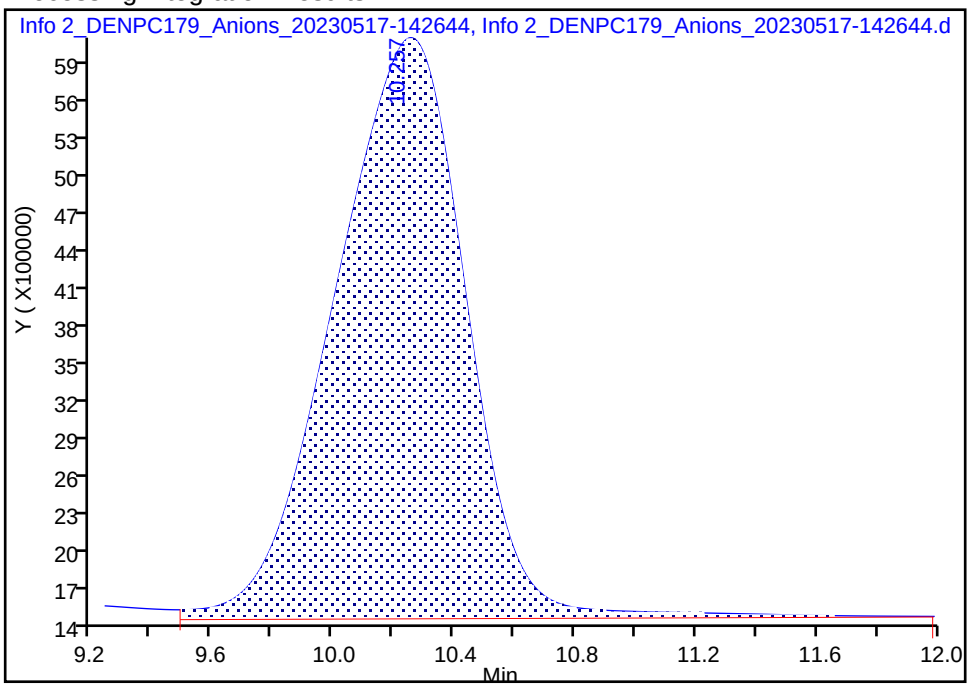
Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-142				
Injection Date:	17-May-2023 14:11:00	Instrument ID:	WC_IonChrom10		
Lims ID:	280-176591-C-6	Lab Sample ID:	280-176591-6		
Client ID:	WBGmw-018-230401-GW				
Operator ID:	wetchemd	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		
Column:		Detector	Info 2_091554_1		

7 Sulfate, CAS: 14808-79-8

Signal: 1

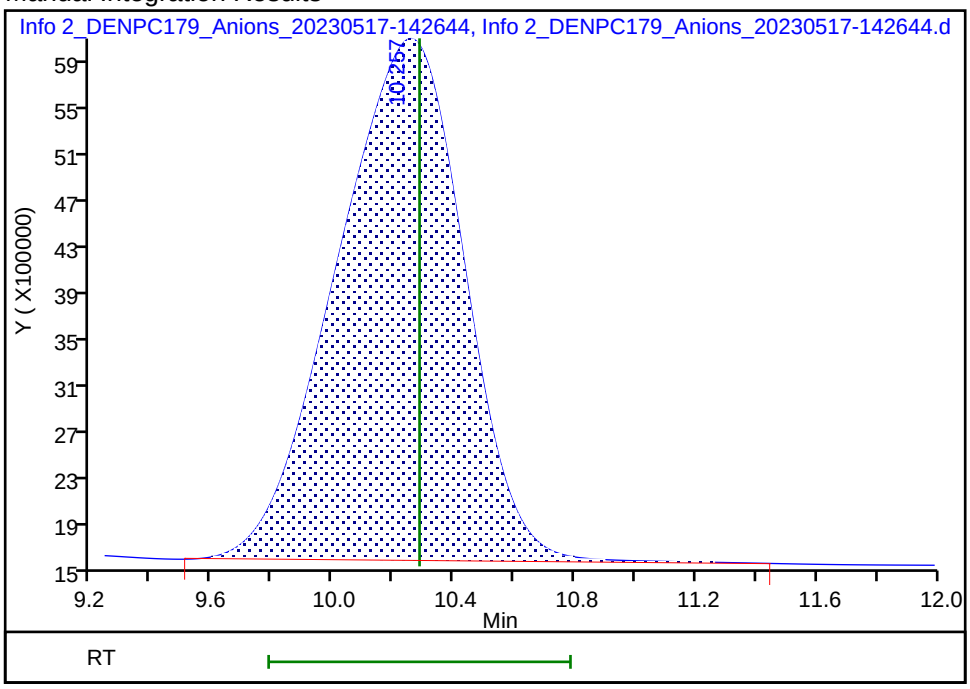
Processing Integration Results

RT: 10.26
Area: 138316805
Amount: 10.113695
Amount Units: ug/ml



Manual Integration Results

RT: 10.26
Area: 130990299
Amount: 9.582910
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:18:55 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-161
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 17-May-2023 15:56:00 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-017
Misc. Info.: 280-0121544-017
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:18 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:21:11

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			2.50	ND	
2 Chloride	4.312	4.310	0.002	927066178	50.0	48.4	M
3 Nitrite as N	4.997	4.995	0.002	107380231	NC	NC	M
4 Bromide	6.138	6.233	-0.095	18704552	2.50	2.60	
5 Nitrate as N	6.897	6.907	-0.010	108776181	NC	NC	M
6 Orthophosphate as P	9.040	9.110	-0.070	59153582	NC	NC	
7 Sulfate	10.227	10.285	-0.058	659062955	50.0	47.8	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

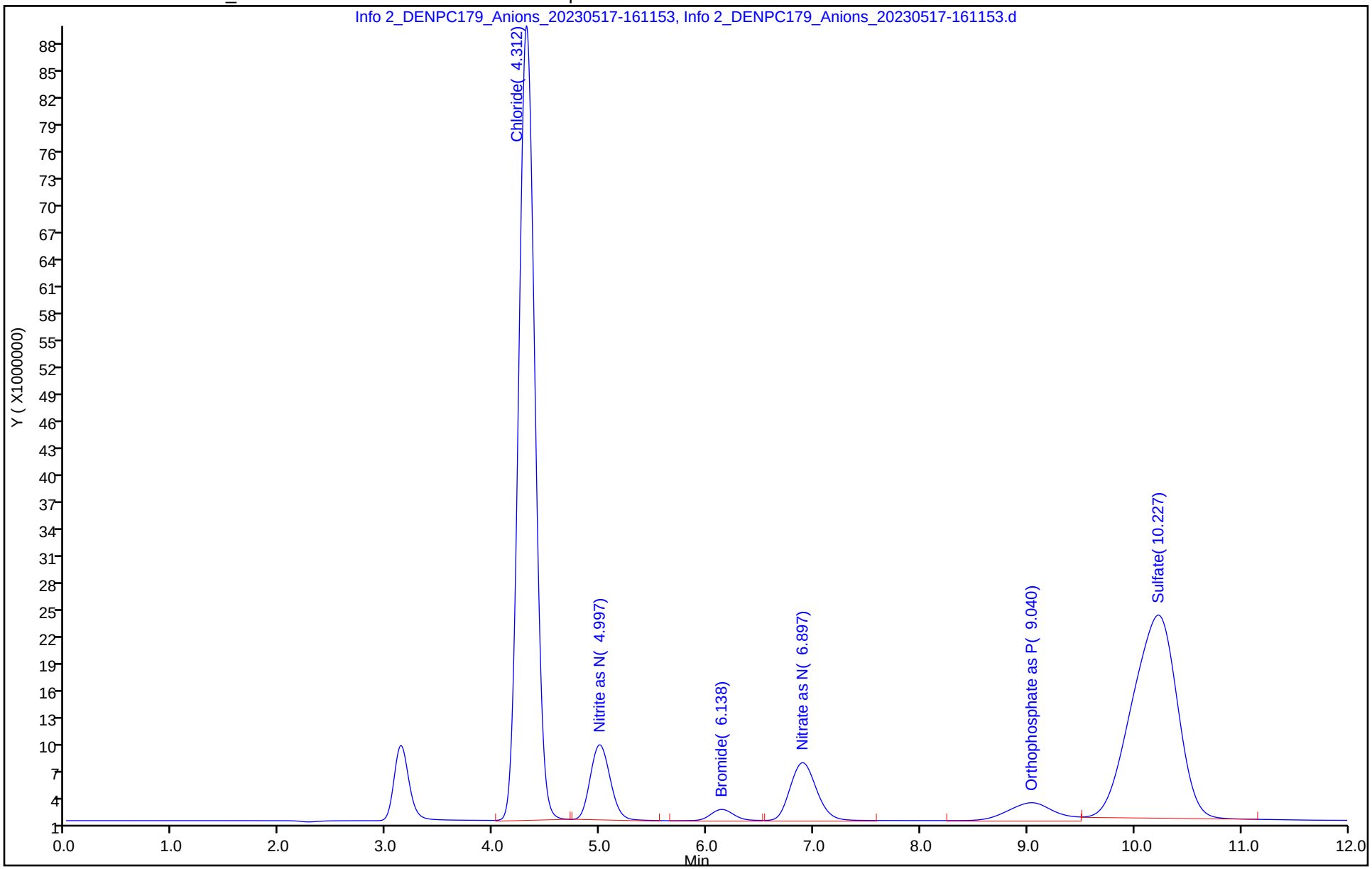
Reagents:

IC LCS_01954 Amount Added: 10.00 Units: mL

Report Date: 18-May-2023 10:40:19 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-161153.d				
Injection Date:	17-May-2023 15:56:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ccv			Worklist Smp#:	17
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-161

Injection Date: 17-May-2023 15:56:00 Instrument ID: WC_IonChrom10

Lims ID: ccv

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 17

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

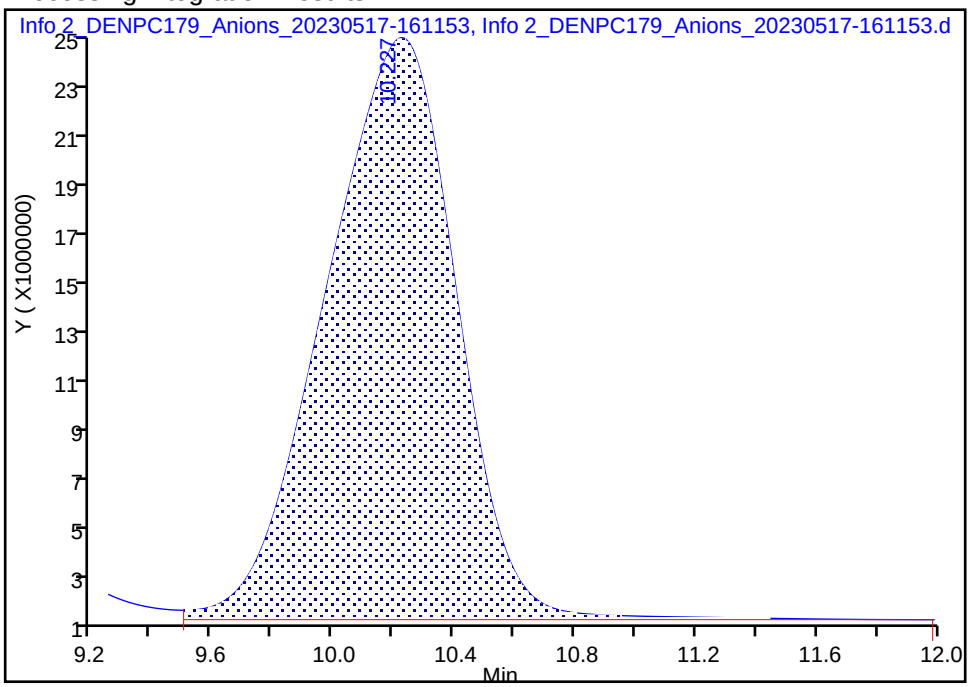
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

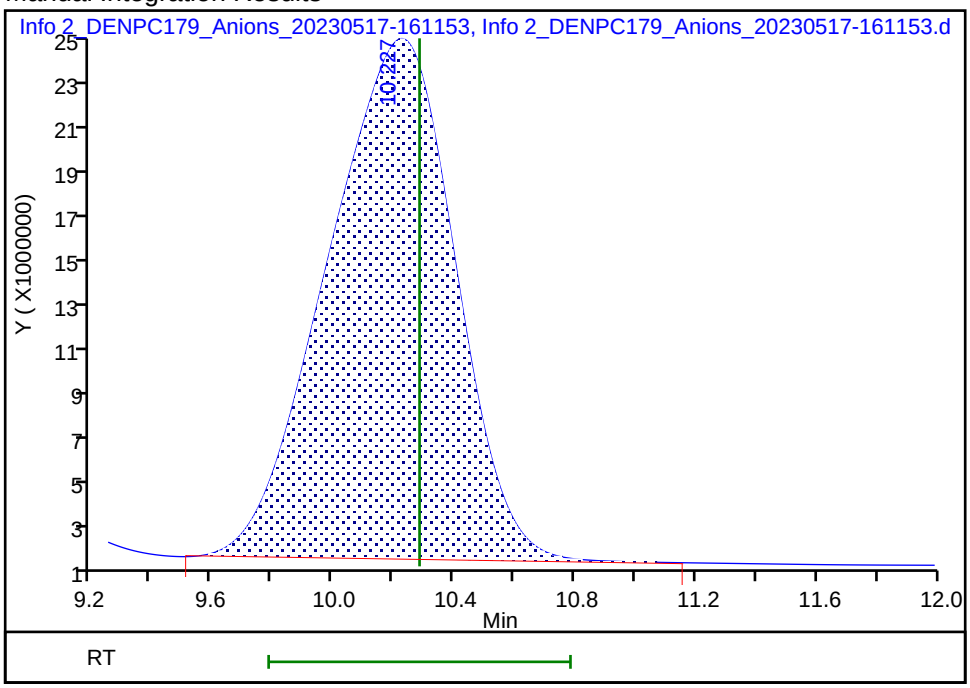
Processing Integration Results

RT: 10.23
Area: 687316861
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 10.23
Area: 659062955
Amount: 47.840331
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:21:10 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-162
Lims ID: ccb
Client ID:
Sample Type: CCB
Inject. Date: 17-May-2023 16:11:00 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-018
Misc. Info.: 280-0121544-018
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:18 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:21:27

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143				ND	
2 Chloride		4.310				ND	
3 Nitrite as N		4.995				ND	U
4 Bromide		6.233				ND	U
5 Nitrate as N		6.907				ND	
6 Orthophosphate as P	9.120	9.110	0.010	6858134		NC	
7 Sulfate	10.298	10.285	0.013	1340356		0.1901	M

QC Flag Legend

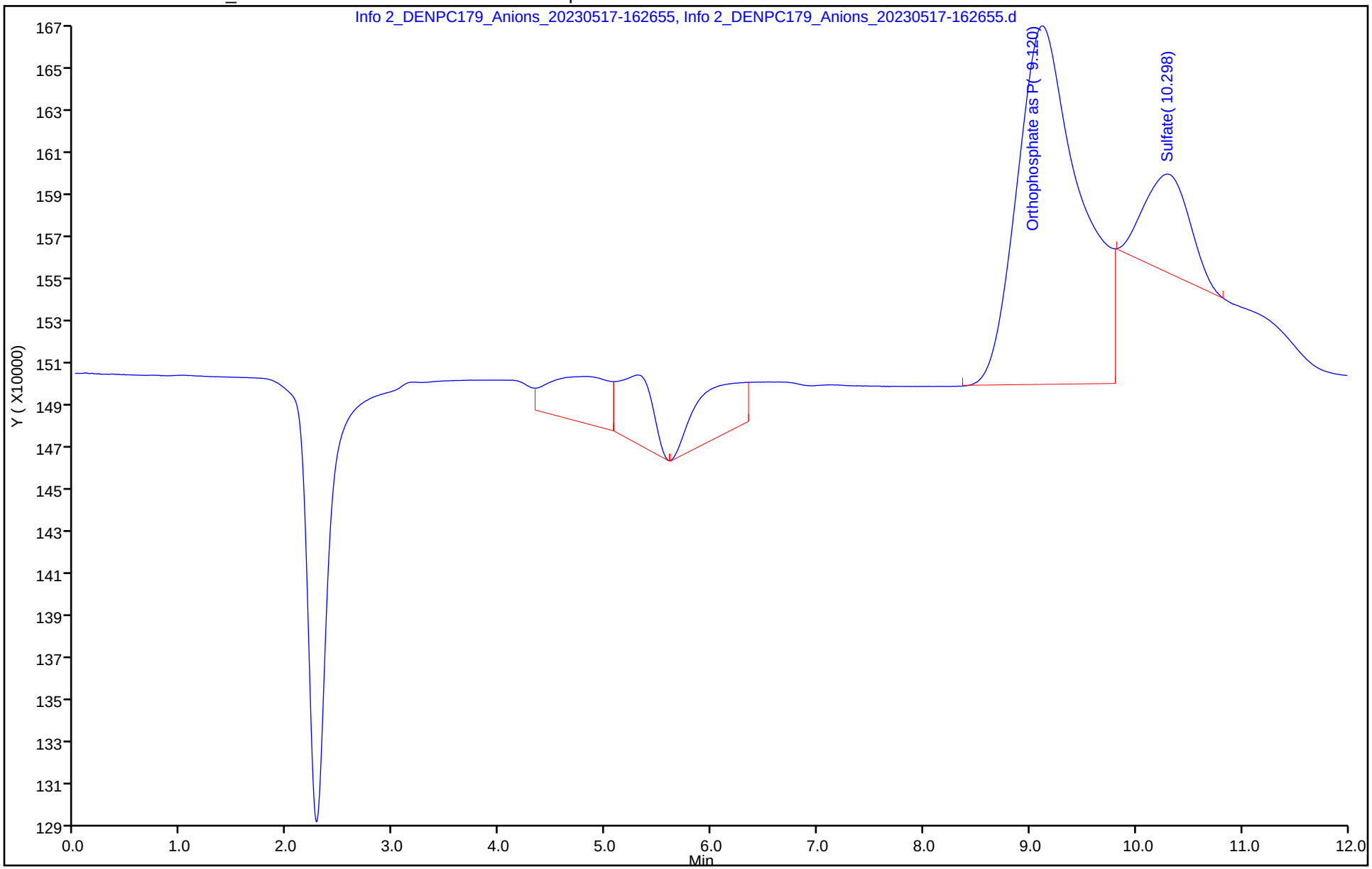
Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 18-May-2023 10:40:19 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-162655.d

Injection Date:	17-May-2023 16:11:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ccb			Worklist Smp#:	18
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-162

Injection Date: 17-May-2023 16:11:00 Instrument ID: WC_IonChrom10

Lims ID: ccb

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 18

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

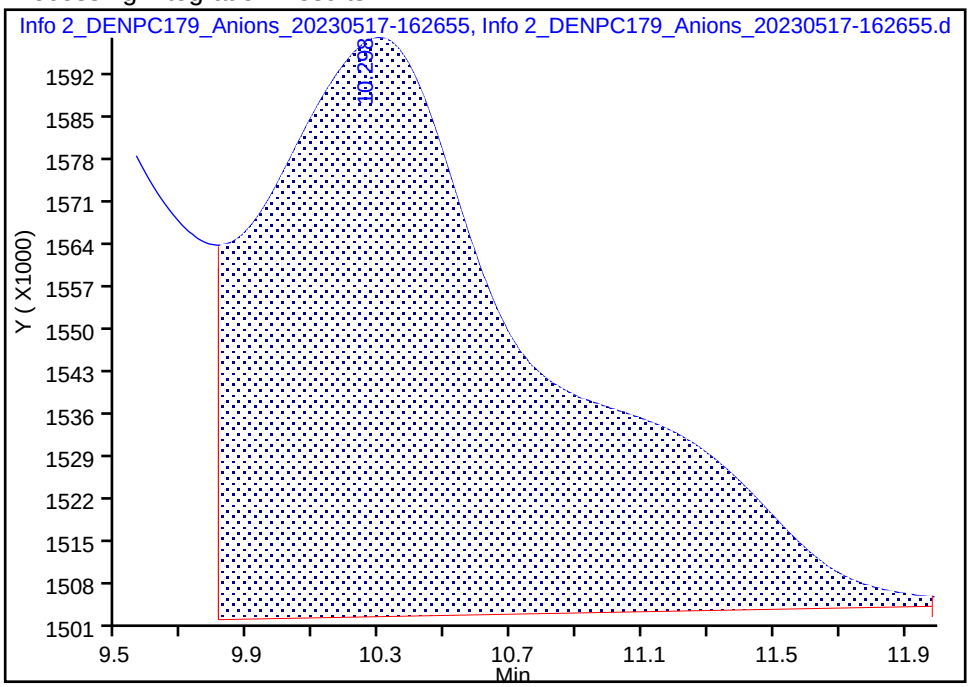
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

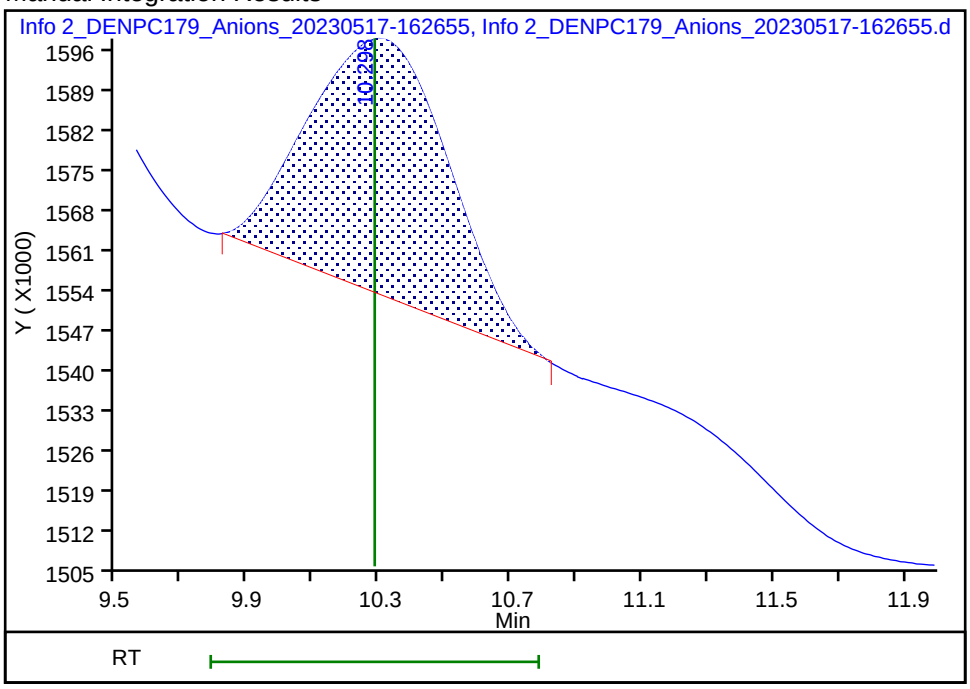
RT: 10.30
Area: 5766056
Amount: 0
Amount Units: ug/ml

Processing Integration Results



RT: 10.30
Area: 1340356
Amount: 0.190125
Amount Units: ug/ml

Manual Integration Results



Reviewer: LVW8, 18-May-2023 10:21:20 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-172
Lims ID: 280-176591-C-4
Client ID: WBGmw-009-230401-GW
Sample Type: Client
Inject. Date: 17-May-2023 17:12:00 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-022
Misc. Info.: 280-0121544-022
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:18 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:22:06

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	
2 Chloride	4.303	4.310	-0.007	21772136	1.27	M
3 Nitrite as N		4.995			ND	
4 Bromide	6.253	6.233	0.020	3050745	0.3068	
5 Nitrate as N	7.000	6.907	0.093	14450165	NC	M
6 Orthophosphate as P	9.192	9.110	0.082	2004169	NC	
7 Sulfate	10.275	10.285	-0.010	201329670	14.7	M

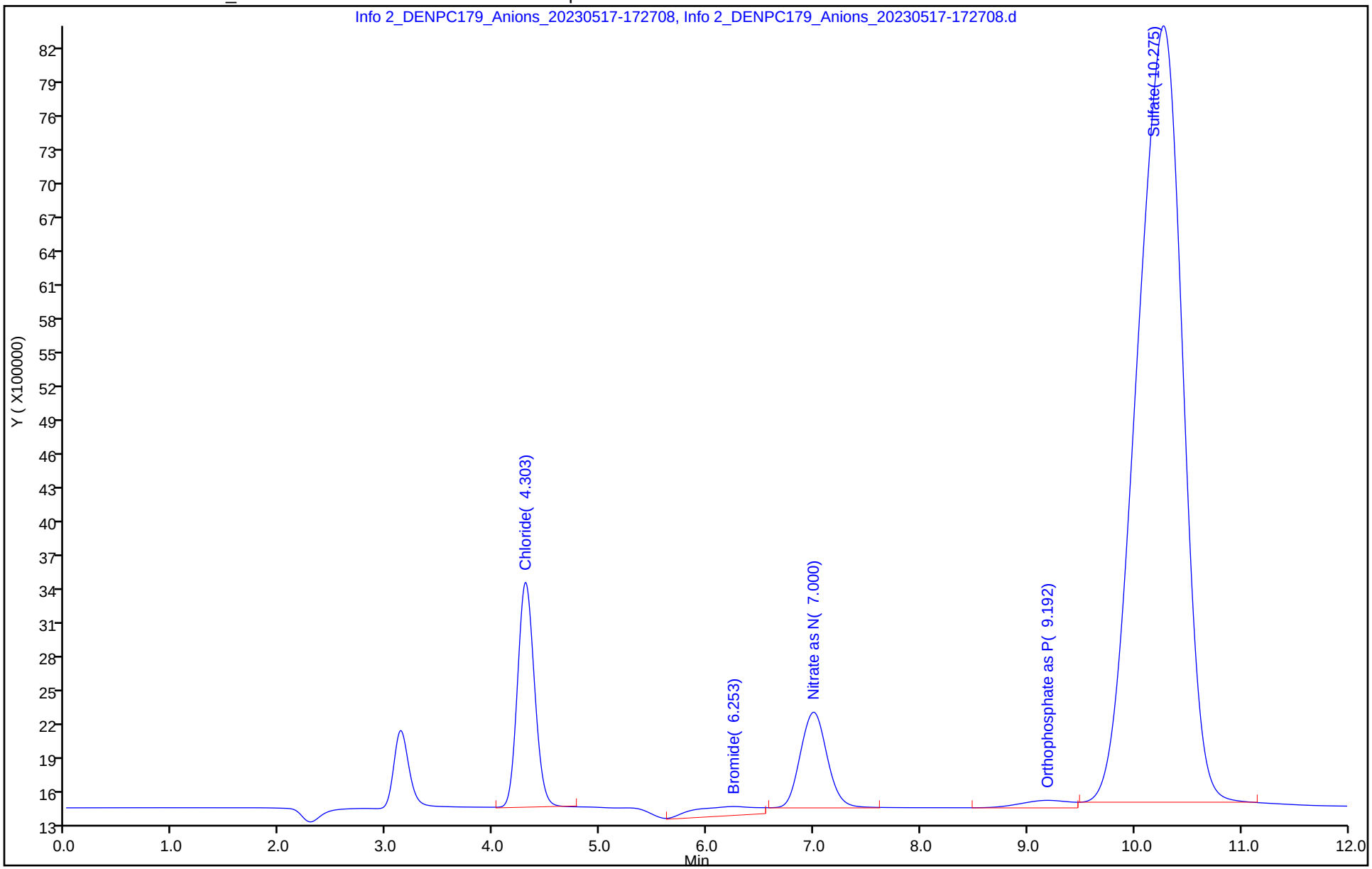
QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Report Date: 18-May-2023 10:40:22 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-172708.d				
Injection Date:	17-May-2023 17:12:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	280-176591-C-4	Lab Sample ID:	280-176591-4	Worklist Smp#:	22
Client ID:	WBGmw-009-230401-GW				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-172

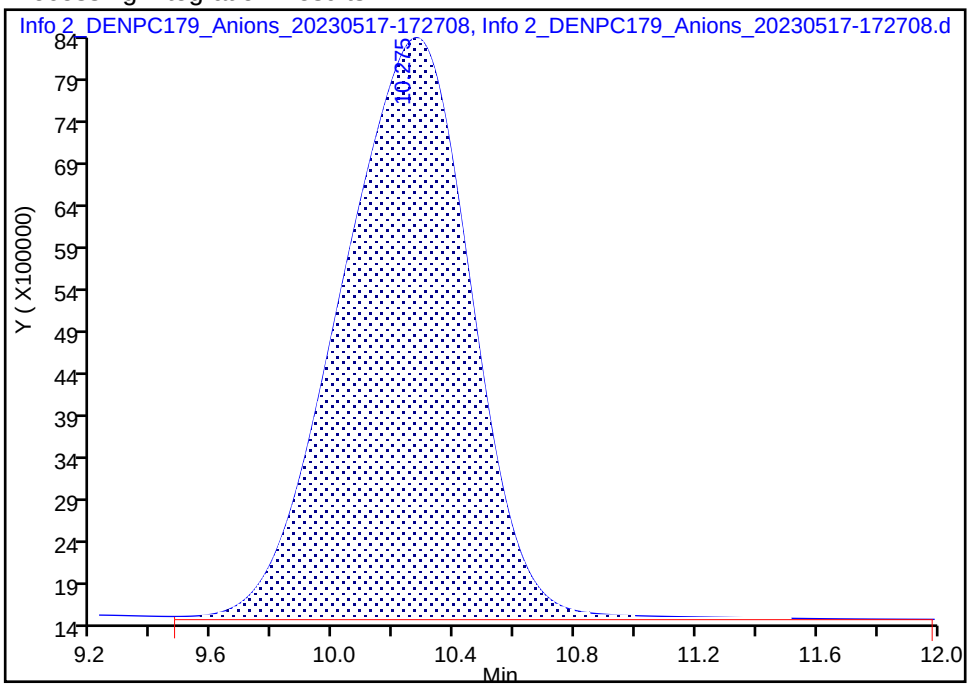
Injection Date:	17-May-2023 17:12:00	Instrument ID:	WC_IonChrom10		
Lims ID:	280-176591-C-4	Lab Sample ID:	280-176591-4		
Client ID:	WBGmw-009-230401-GW				
Operator ID:	wetchemd	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		
Column:		Detector	Info 2_091554_1		

7 Sulfate, CAS: 14808-79-8

Signal: 1

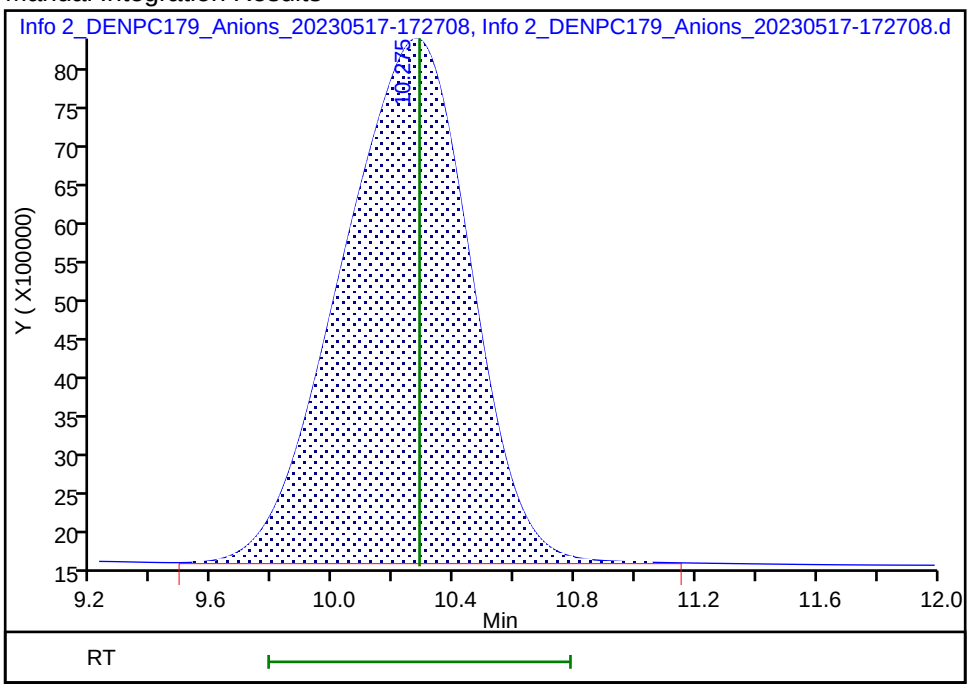
Processing Integration Results

RT: 10.28
Area: 206447741
Amount: 15.049595
Amount Units: ug/ml



Manual Integration Results

RT: 10.28
Area: 201329670
Amount: 14.678805
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:22:03 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Report Date: 18-May-2023 10:40:26 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-191
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 17-May-2023 18:57:00 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-029
Misc. Info.: 280-0121544-029
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:26 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:24:35

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	ND	
2 Chloride	4.312	4.310	0.002	923288229	50.0	48.3	M
3 Nitrite as N	4.997	4.995	0.002	106521476	NC	NC	M
4 Bromide	6.135	6.233	-0.098	17963030	2.50	2.49	
5 Nitrate as N	6.893	6.907	-0.014	107570684	NC	NC	M
6 Orthophosphate as P	9.042	9.110	-0.068	56235113	NC	NC	
7 Sulfate	10.215	10.285	-0.070	652135007	50.0	47.3	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

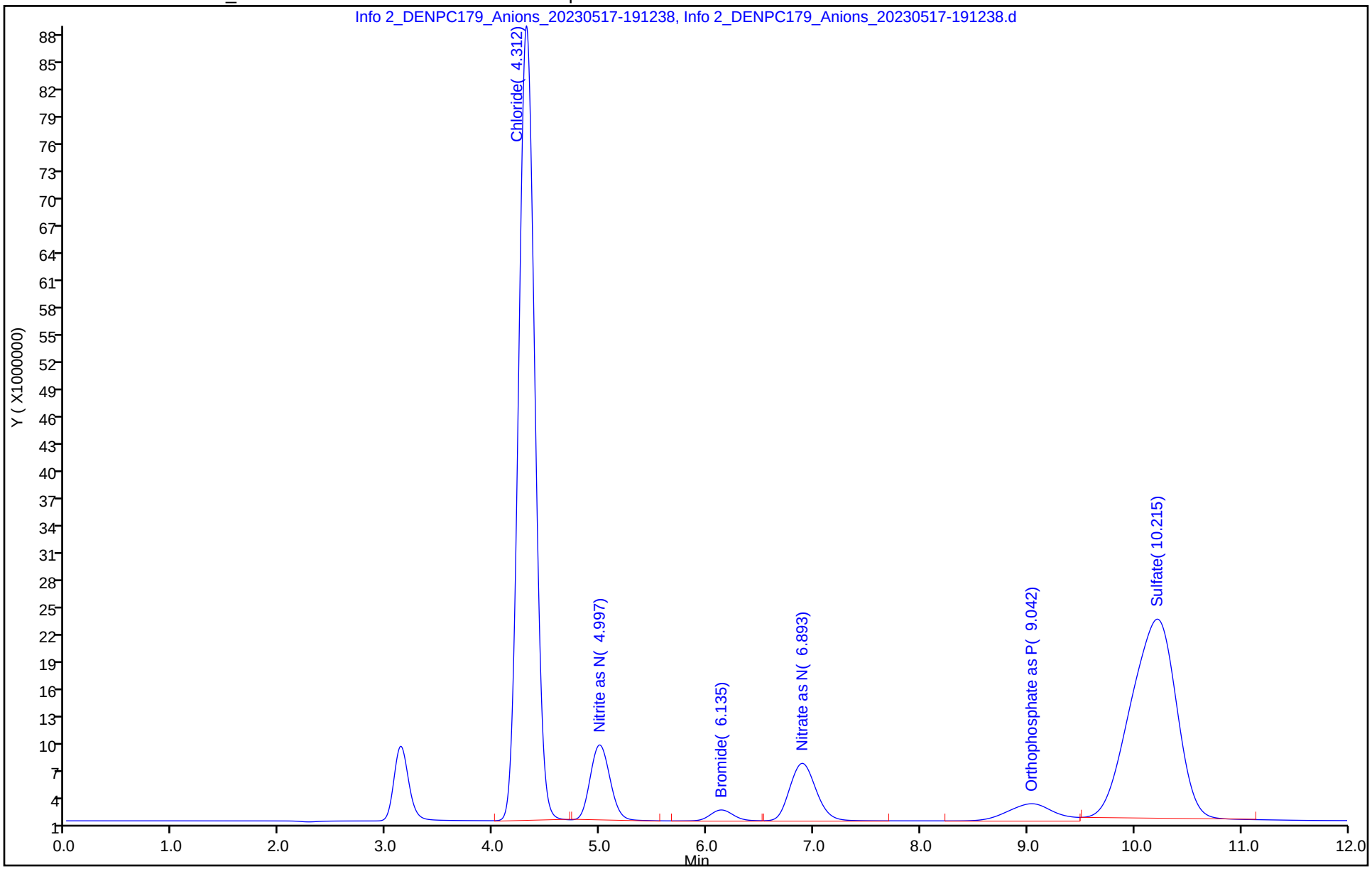
Reagents:

IC LCS_01954 Amount Added: 10.00 Units: mL

Report Date: 18-May-2023 10:40:26 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-191238.d				
Injection Date:	17-May-2023 18:57:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ccv			Worklist Smp#:	29
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-191

Injection Date: 17-May-2023 18:57:00 Instrument ID: WC_IonChrom10

Lims ID: ccv

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 29

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

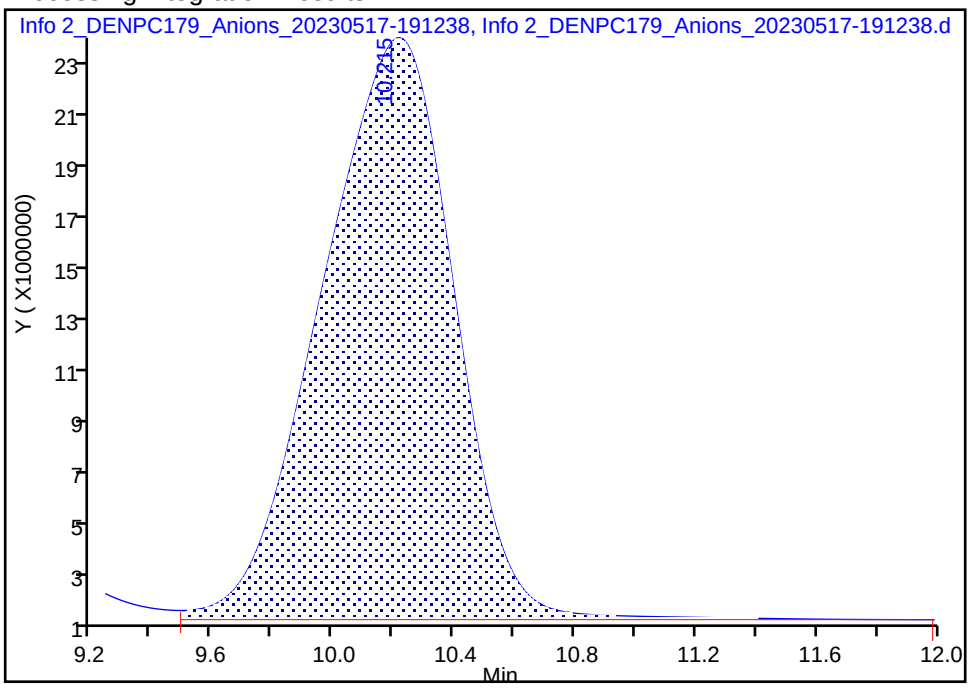
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

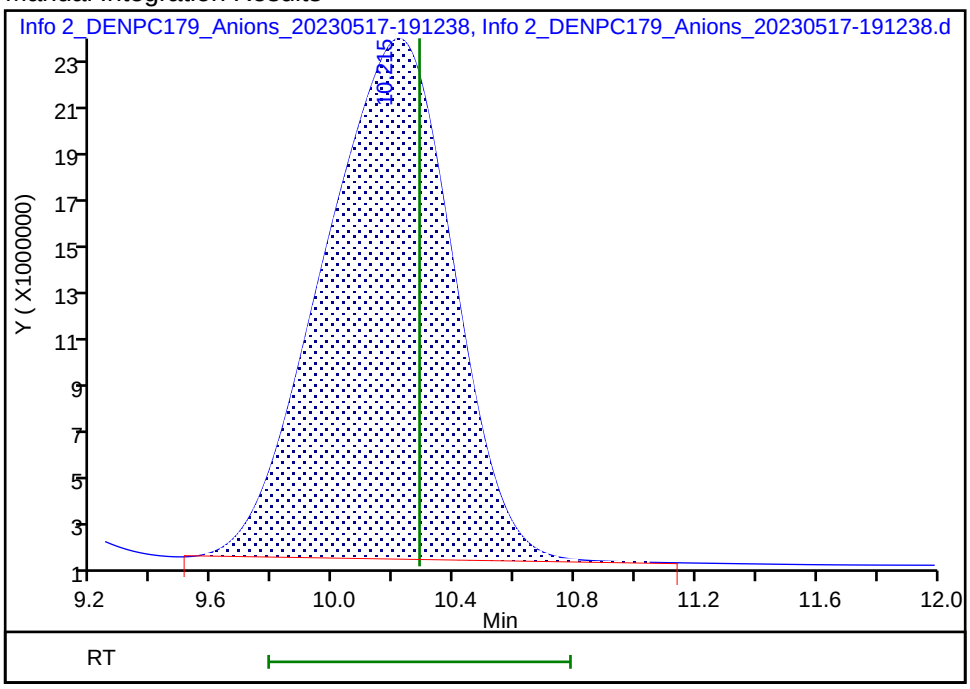
Processing Integration Results

RT: 10.22
Area: 679160619
Amount: 49.296351
Amount Units: ug/ml



Manual Integration Results

RT: 10.22
Area: 652135007
Amount: 47.338420
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:24:33 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-192
Lims ID: ccb
Client ID:
Sample Type: CCB
Inject. Date: 17-May-2023 19:12:00 ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-030
Misc. Info.: 280-0121544-030
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:26 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:24:45

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143				ND	
2 Chloride		4.310				ND	
3 Nitrite as N		4.995				ND	
4 Bromide		6.233				ND	U
5 Nitrate as N		6.907				ND	
6 Orthophosphate as P	9.135	9.110	0.025	6326357		NC	
7 Sulfate	10.282	10.285	-0.003	886171		0.1572	M

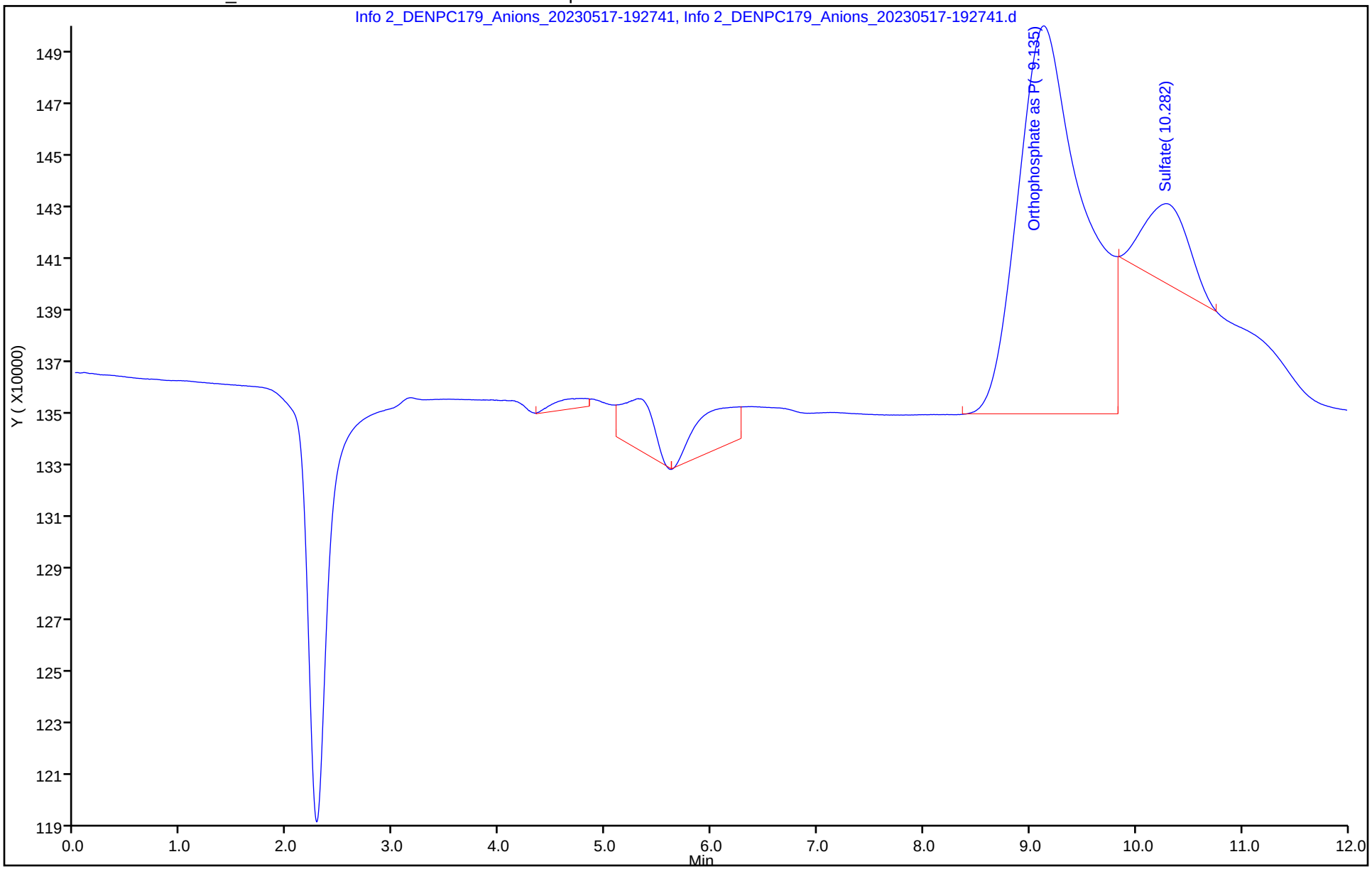
QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 18-May-2023 10:40:27 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-192741.d				
Injection Date:	17-May-2023 19:12:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ccb			Worklist Smp#:	30
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Eurofins Denver

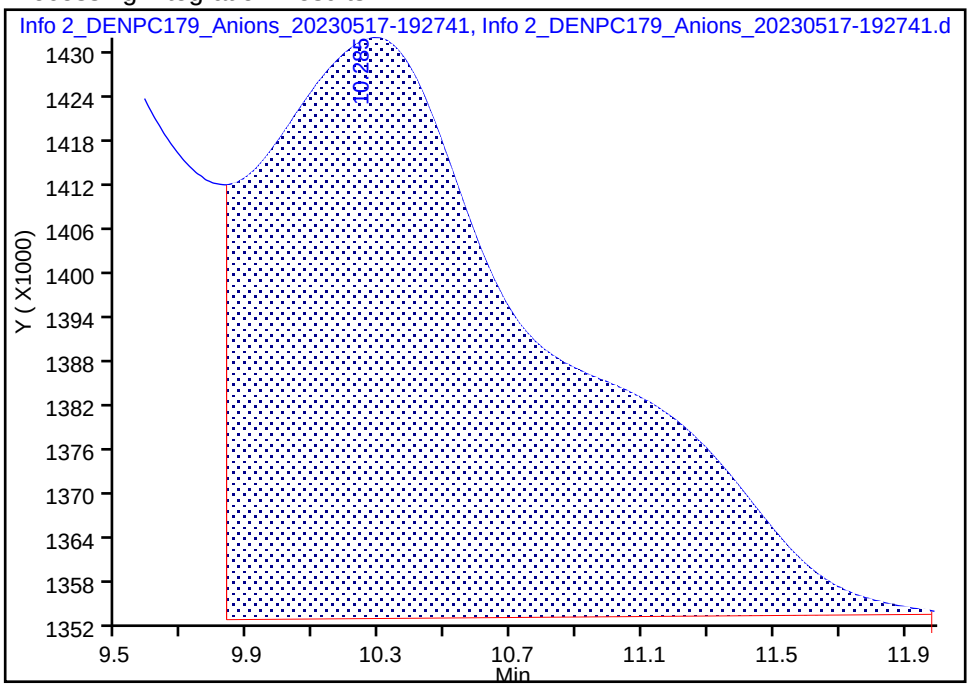
Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-192
Injection Date: 17-May-2023 19:12:00 Instrument ID: WC_IonChrom10
Lims ID: ccb
Client ID:
Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: Anions_IC10 Limit Group: Wet - Anions 28D
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

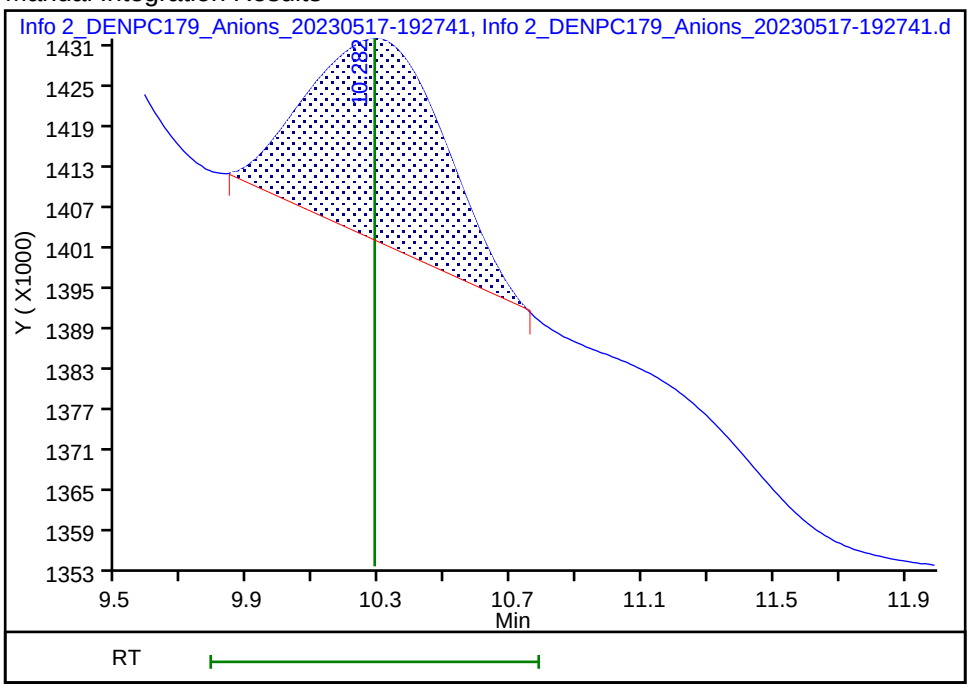
RT: 10.29
Area: 4945420
Amount: 0.451302
Amount Units: ug/ml

Processing Integration Results



RT: 10.28
Area: 886171
Amount: 0.157221
Amount Units: ug/ml

Manual Integration Results



Reviewer: LVW8, 18-May-2023 10:24:40 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Report Date: 18-May-2023 10:40:34 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-221
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 17-May-2023 21:58:00 ALS Bottle#: 0 Worklist Smp#: 41
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-041
Misc. Info.: 280-0121544-041
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:33 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:28:31

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	ND	
2 Chloride	4.310	4.310	0.000	924703909	50.0	48.3	M
3 Nitrite as N	4.995	4.995	0.000	107427468	NC	NC	M
4 Bromide	6.132	6.233	-0.101	17937367	2.50	2.49	
5 Nitrate as N	6.890	6.907	-0.017	107581176	NC	NC	M
6 Orthophosphate as P	9.035	9.110	-0.075	54064905	NC	NC	
7 Sulfate	10.212	10.285	-0.073	652127387	50.0	47.3	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

Reagents:

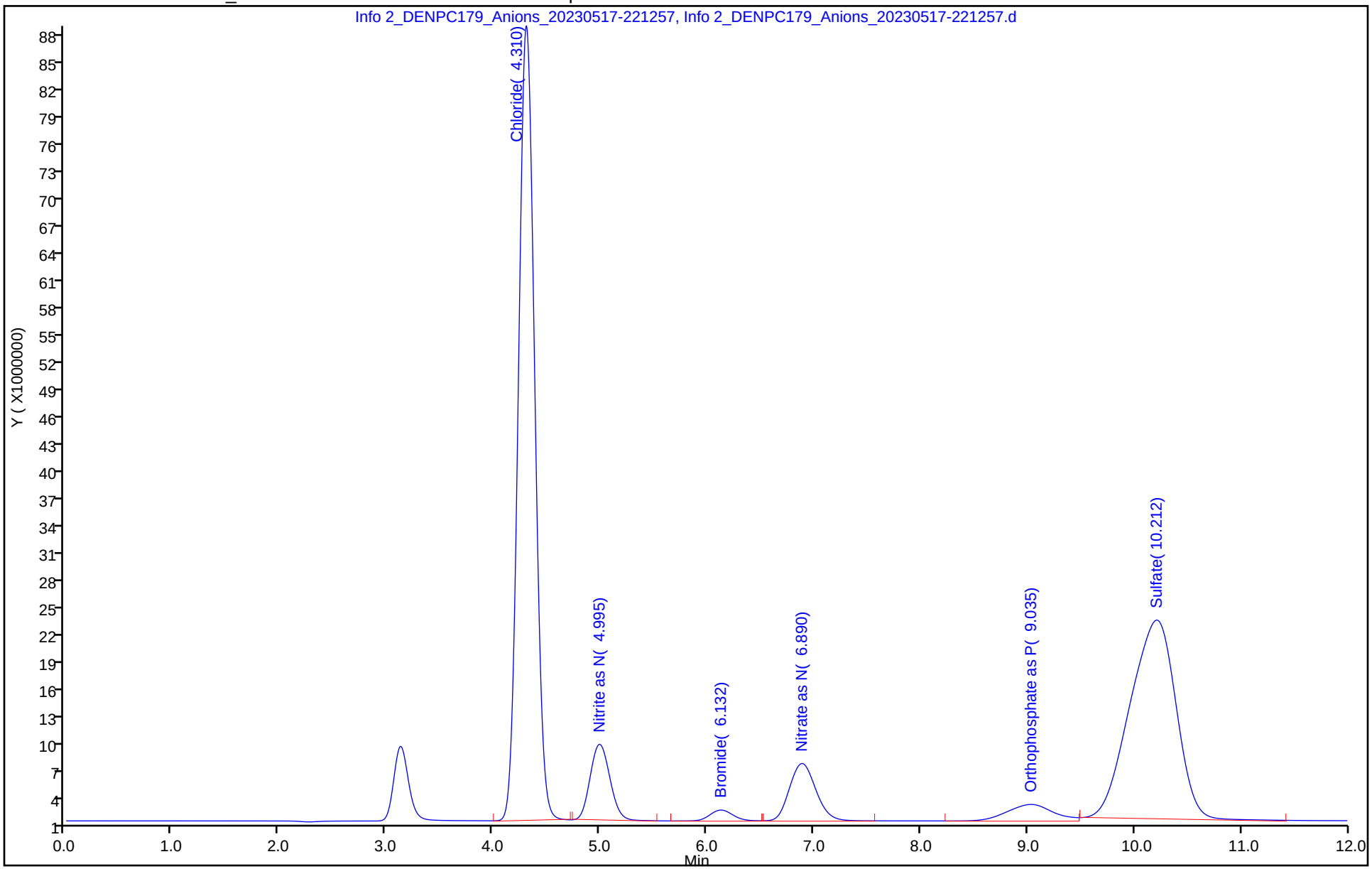
IC LCS_01954 Amount Added: 10.00 Units: mL

Report Date: 18-May-2023 10:40:34 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-221257.d

Injection Date:	17-May-2023 21:58:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ccv			Worklist Smp#:	41
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-221

Injection Date: 17-May-2023 21:58:00 Instrument ID: WC_IonChrom10

Lims ID: ccv

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 41

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

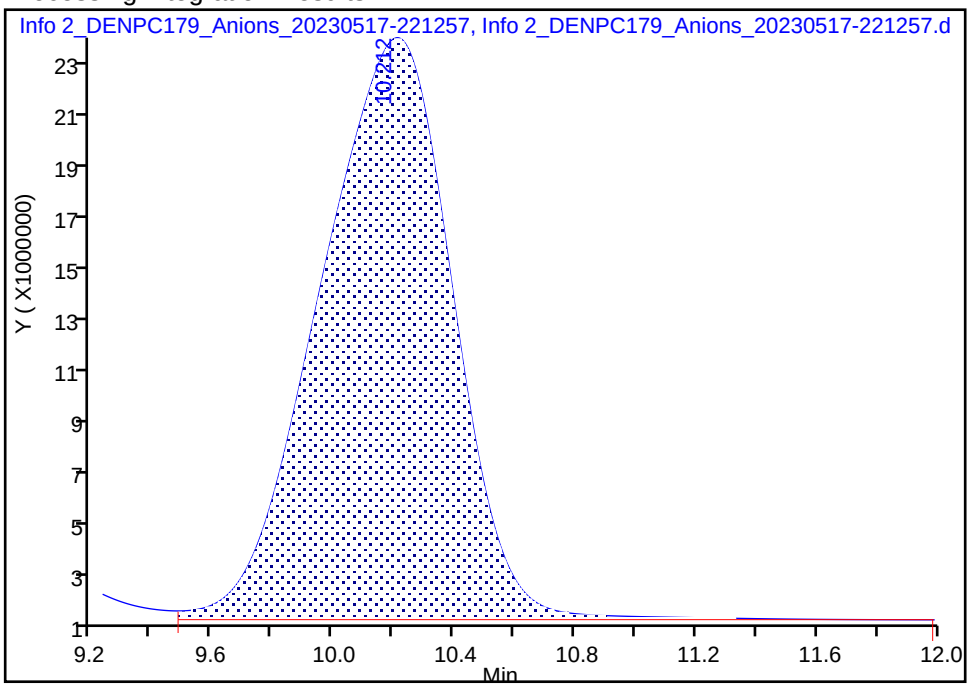
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

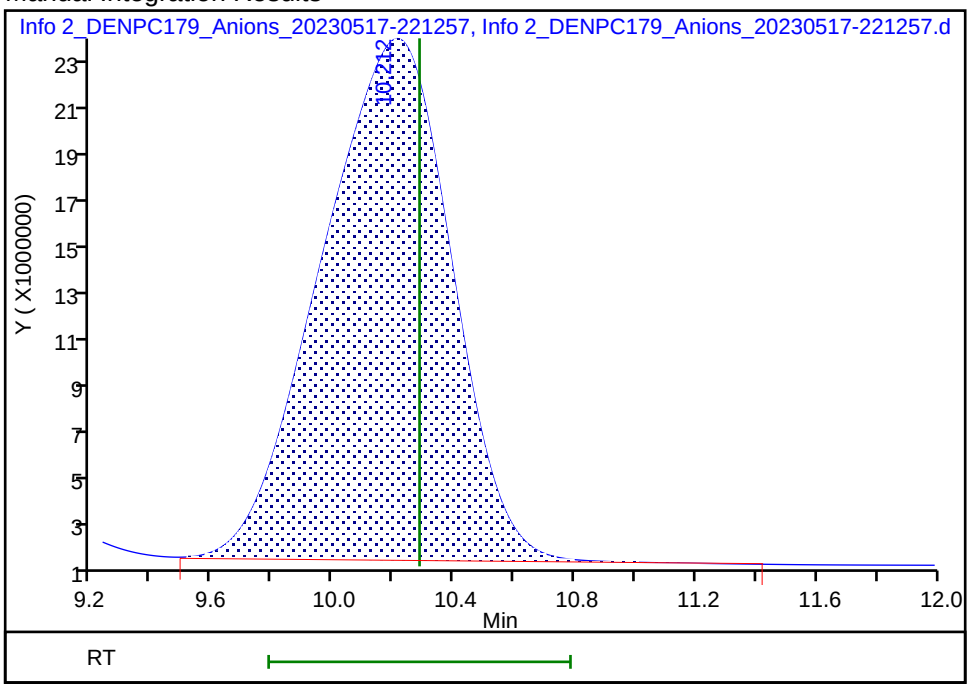
Processing Integration Results

RT: 10.21
Area: 676749744
Amount: 49.121690
Amount Units: ug/ml



Manual Integration Results

RT: 10.21
Area: 652127387
Amount: 47.337868
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:28:29 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-222
Lims ID: ccb
Client ID:
Sample Type: CCB
Inject. Date: 17-May-2023 22:13:00 ALS Bottle#: 0 Worklist Smp#: 42
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-042
Misc. Info.: 280-0121544-042
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:33 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:28:45

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143				ND	
2 Chloride		4.310				ND	
3 Nitrite as N		4.995				ND	U
4 Bromide		6.233				ND	U
5 Nitrate as N		6.907				ND	
6 Orthophosphate as P	9.127	9.110	0.017	5083465		NC	
7 Sulfate	10.278	10.285	-0.007	855050		0.1550	M

QC Flag Legend

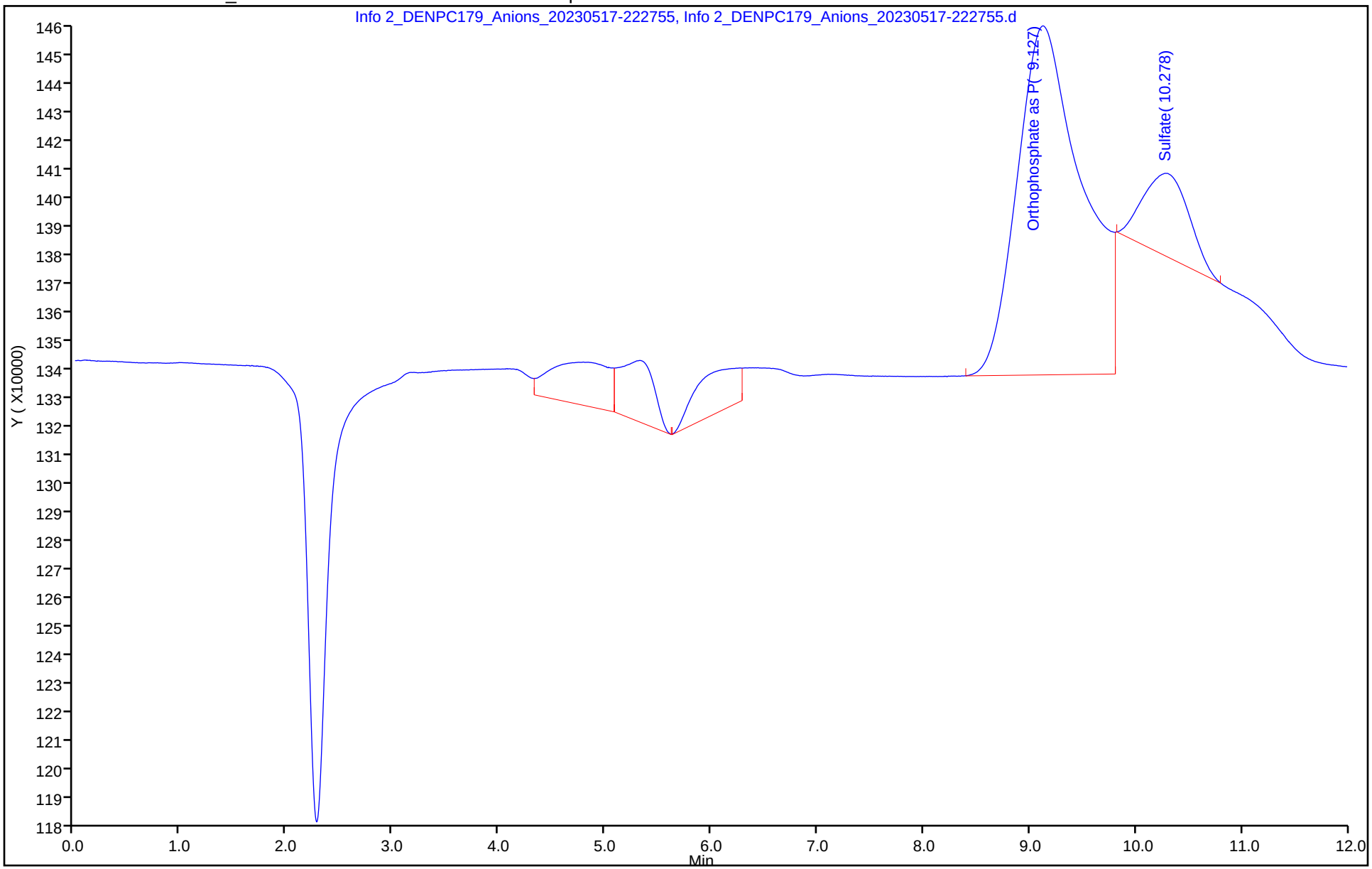
Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 18-May-2023 10:40:35 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-222755.d

Injection Date:	17-May-2023 22:13:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ccb			Worklist Smp#:	42
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-222

Injection Date: 17-May-2023 22:13:00 Instrument ID: WC_IonChrom10

Lims ID: ccb

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 42

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

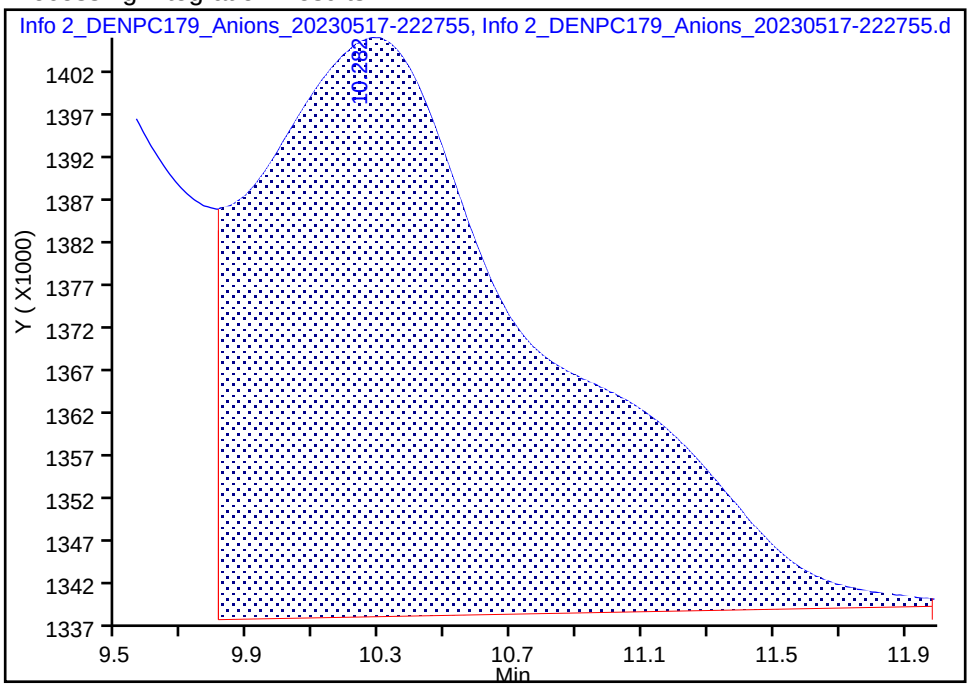
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

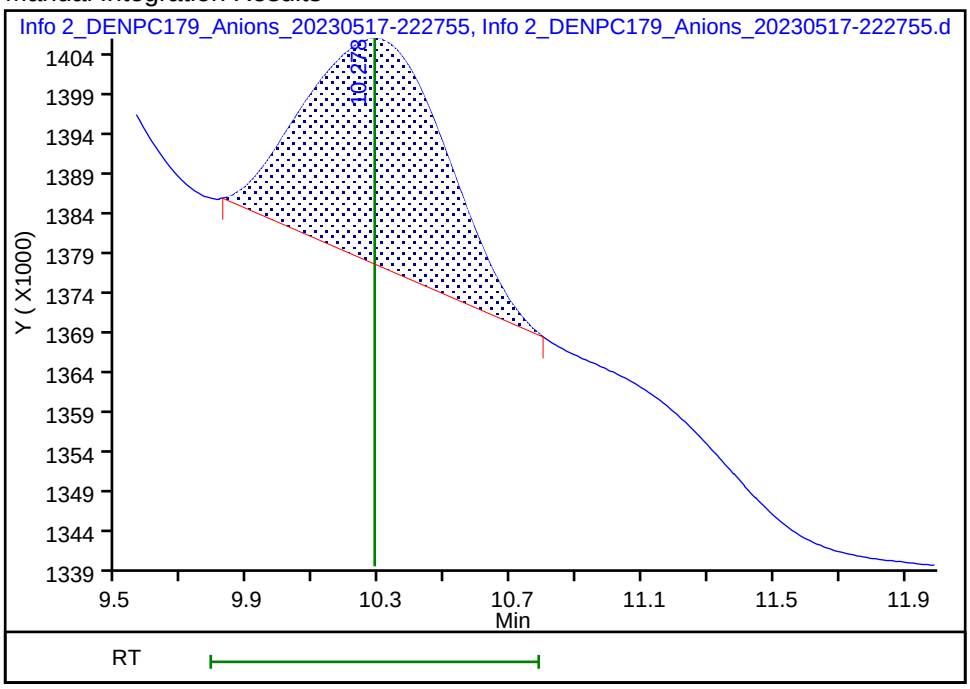
Processing Integration Results

RT: 10.28
Area: 4177160
Amount: 0.395644
Amount Units: ug/ml



Manual Integration Results

RT: 10.28
Area: 855050
Amount: 0.154966
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:28:37 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Report Date: 18-May-2023 10:40:36 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-225
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 17-May-2023 22:42:00 ALS Bottle#: 0 Worklist Smp#: 44
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-044
Misc. Info.: 280-0121544-044
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:33 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:29:28

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	ND	
2 Chloride	4.312	4.310	0.002	924949235	50.0	48.3	M
3 Nitrite as N	4.998	4.995	0.003	107096294	NC	NC	M
4 Bromide	6.138	6.233	-0.095	17926460	2.50	2.49	
5 Nitrate as N	6.898	6.907	-0.009	107530503	NC	NC	M
6 Orthophosphate as P	9.040	9.110	-0.070	54590258	NC	NC	
7 Sulfate	10.215	10.285	-0.070	652974256	50.0	47.4	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

Reagents:

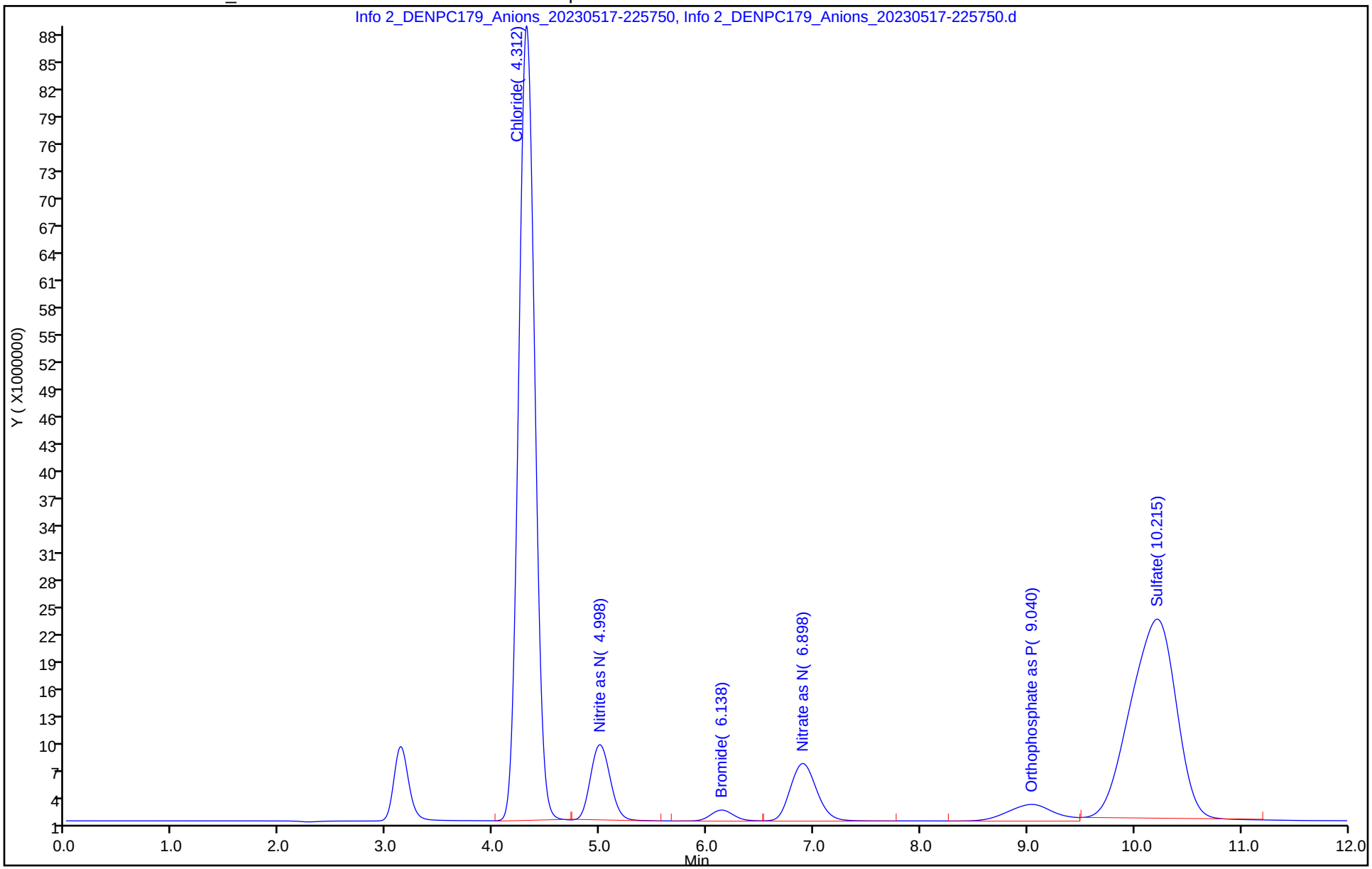
IC LCS_01954 Amount Added: 10.00 Units: mL

Report Date: 18-May-2023 10:40:36 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-225750.d

Injection Date:	17-May-2023 22:42:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	lcs			Worklist Smp#:	44
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

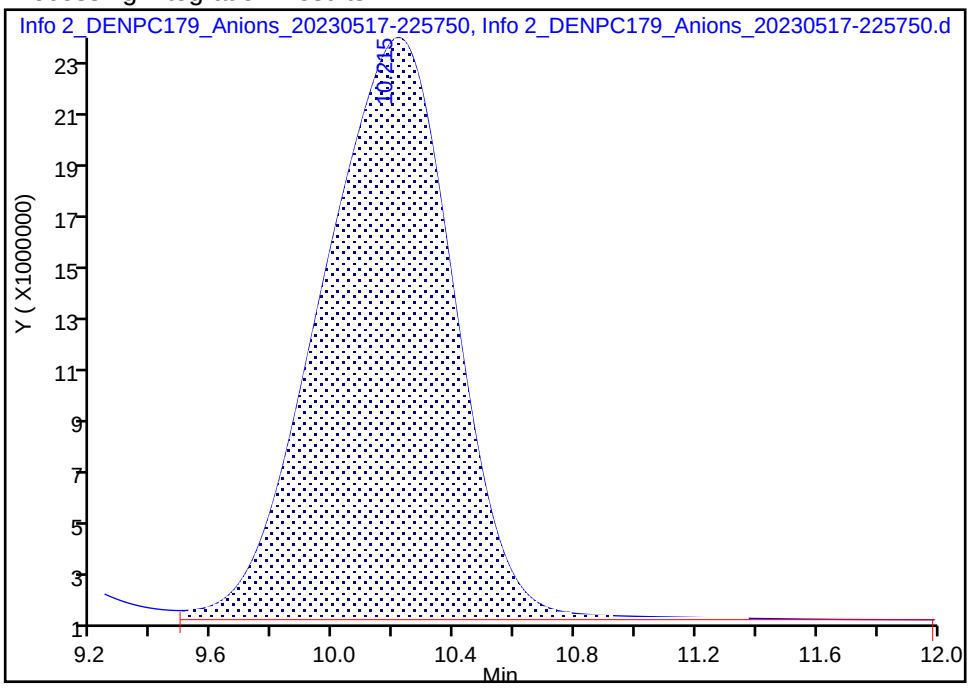
Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-225
Injection Date: 17-May-2023 22:42:00 Instrument ID: WC_IonChrom10
Lims ID: lcs
Client ID:
Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 44
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: Anions_IC10 Limit Group: Wet - Anions 28D
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

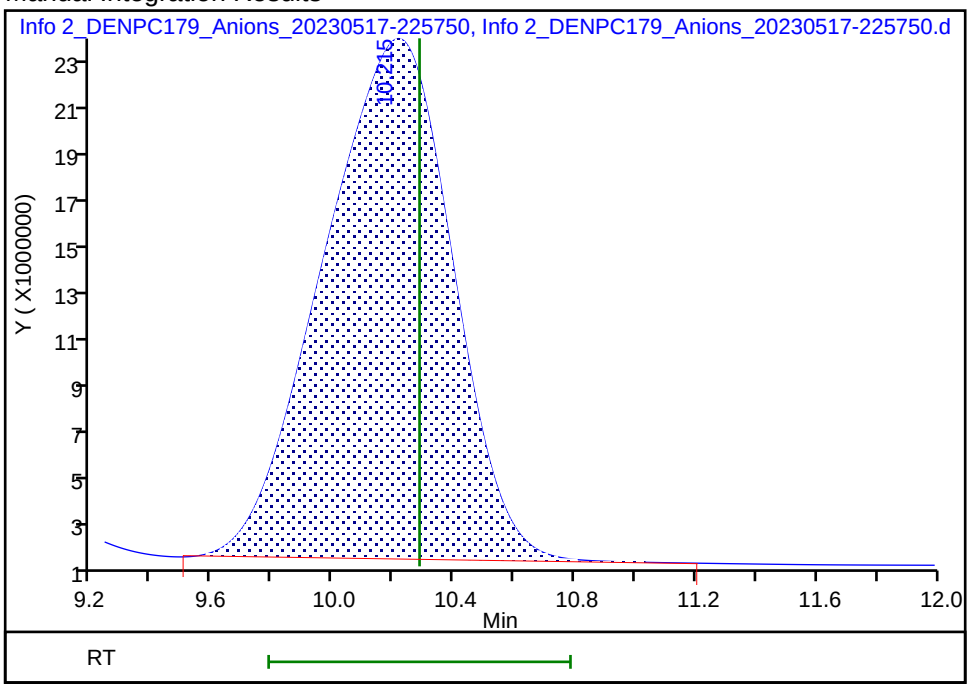
Processing Integration Results

RT: 10.22
Area: 679302169
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 10.22
Area: 652974256
Amount: 47.399221
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:29:26 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-231
Lims ID: lcsd
Client ID:
Sample Type: LCSD
Inject. Date: 17-May-2023 22:57:00 ALS Bottle#: 0 Worklist Smp#: 45
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-045
Misc. Info.: 280-0121544-045
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:33 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:29:48

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	ND	
2 Chloride	4.312	4.310	0.002	926762436	50.0	48.4	M
3 Nitrite as N	4.998	4.995	0.003	105643850	NC	NC	M
4 Bromide	6.143	6.233	-0.090	18053368	2.50	2.51	
5 Nitrate as N	6.902	6.907	-0.005	107945779	NC	NC	M
6 Orthophosphate as P	9.042	9.110	-0.068	58574366	NC	NC	
7 Sulfate	10.218	10.285	-0.067	653554345	50.0	47.4	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

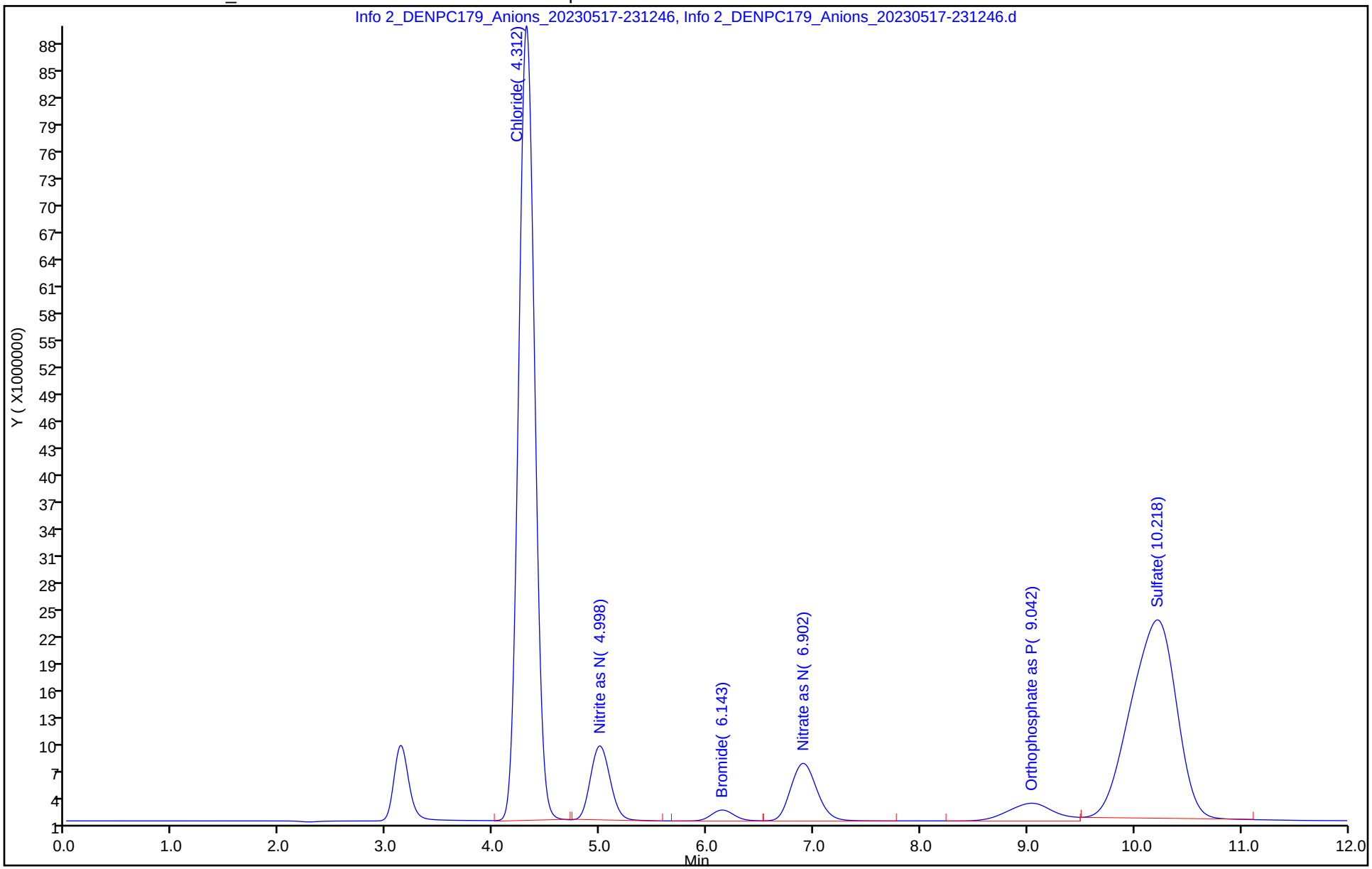
Reagents:

IC LCS_01954 Amount Added: 10.00 Units: mL

Report Date: 18-May-2023 10:40:37 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-231246.d				
Injection Date:	17-May-2023 22:57:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	lcsd			Worklist Smp#:	45
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-231

Injection Date: 17-May-2023 22:57:00 Instrument ID: WC_IonChrom10

Lims ID: lcsd

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 45

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

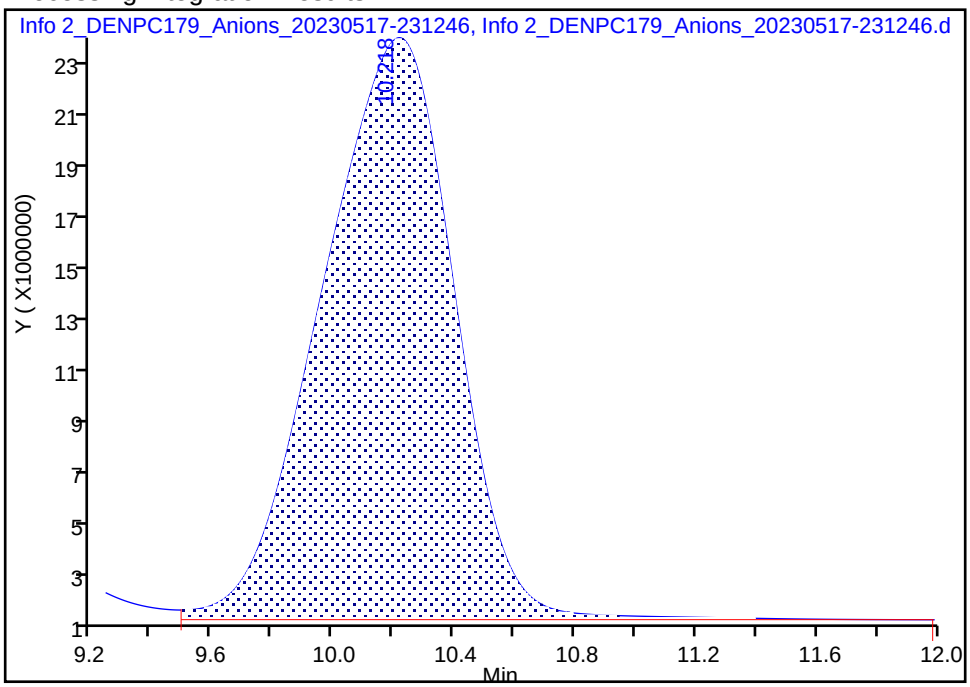
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

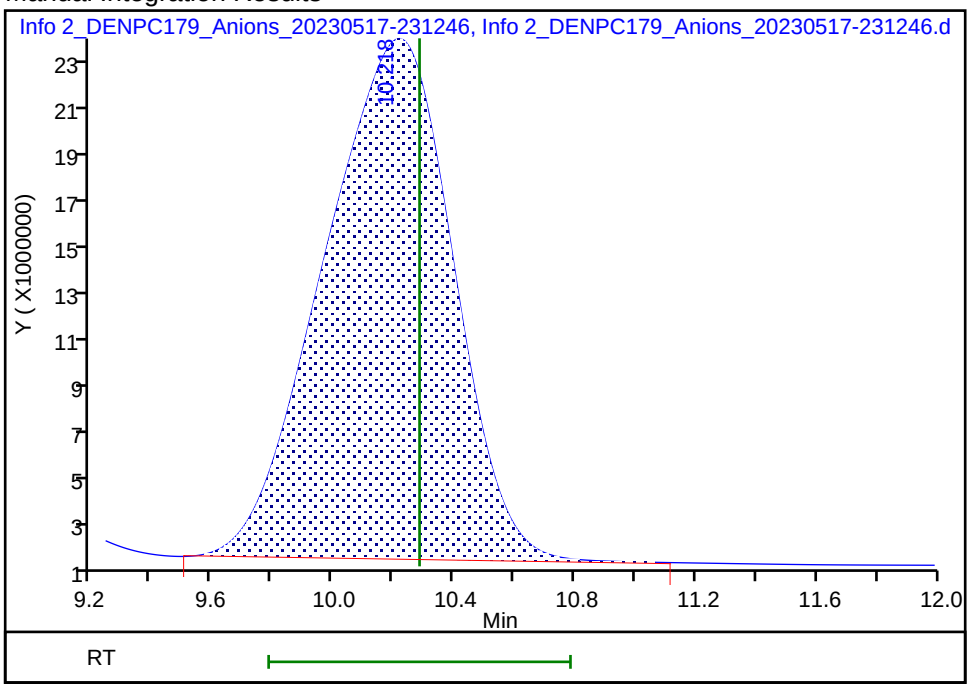
Processing Integration Results

RT: 10.22
Area: 681311308
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 10.22
Area: 653554345
Amount: 47.441247
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:29:47 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-232
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 17-May-2023 23:12:00 ALS Bottle#: 0 Worklist Smp#: 46
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-046
Misc. Info.: 280-0121544-046
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:33 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:30:01

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143				ND	
2 Chloride		4.310				ND	
3 Nitrite as N		4.995				ND	U
4 Bromide		6.233				ND	U
5 Nitrate as N		6.907				ND	
6 Orthophosphate as P	9.130	9.110	0.020	7479220		NC	
7 Sulfate	10.287	10.285	0.002	935888		0.1608	M

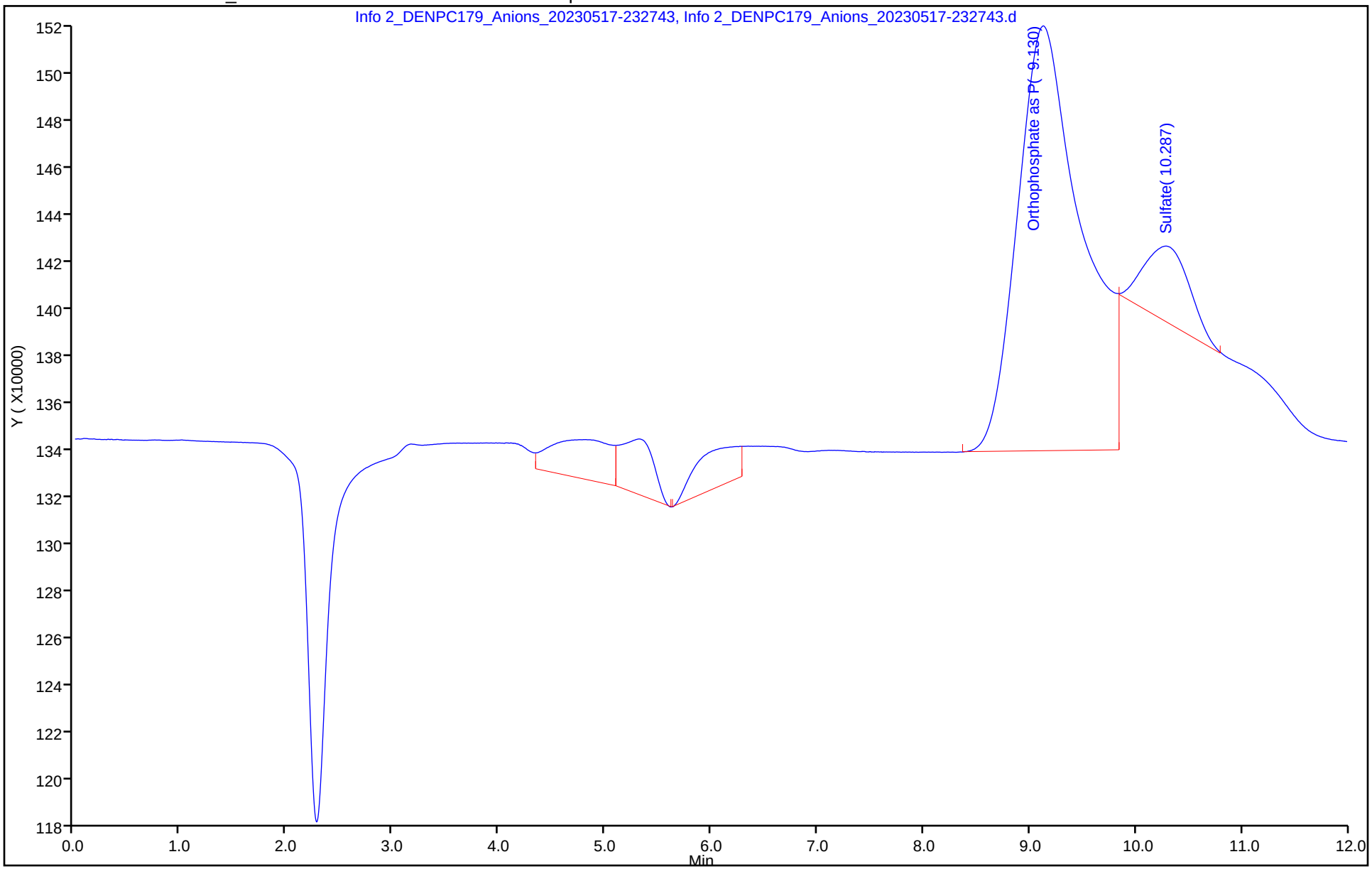
QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 18-May-2023 10:40:37 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-232743.d				
Injection Date:	17-May-2023 23:12:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	mb			Worklist Smp#:	46
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-232

Injection Date: 17-May-2023 23:12:00 Instrument ID: WC_IonChrom10

Lims ID: mb

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 46

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

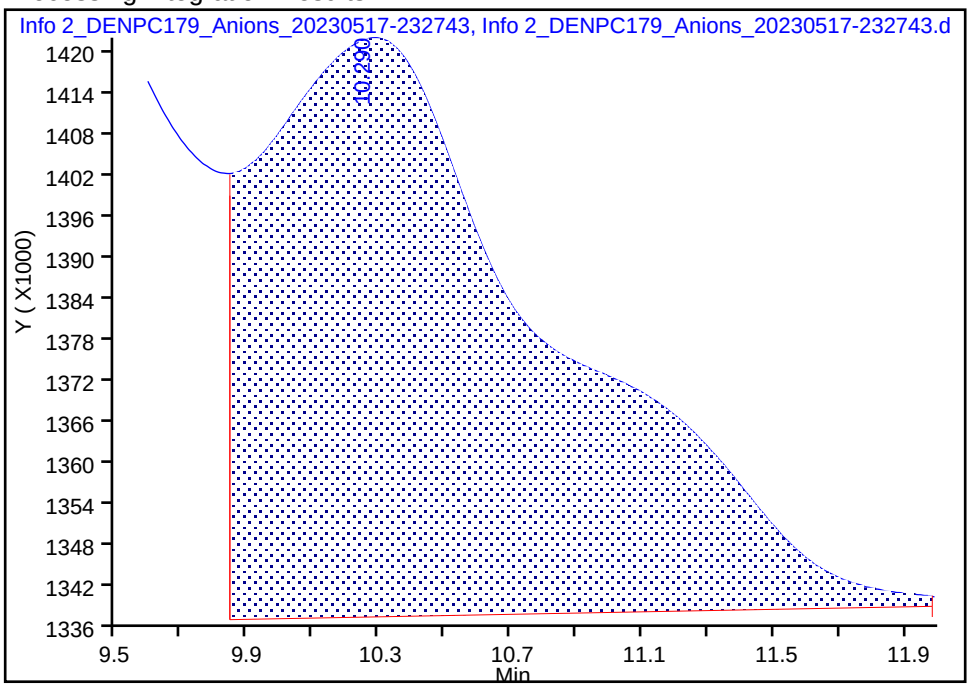
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

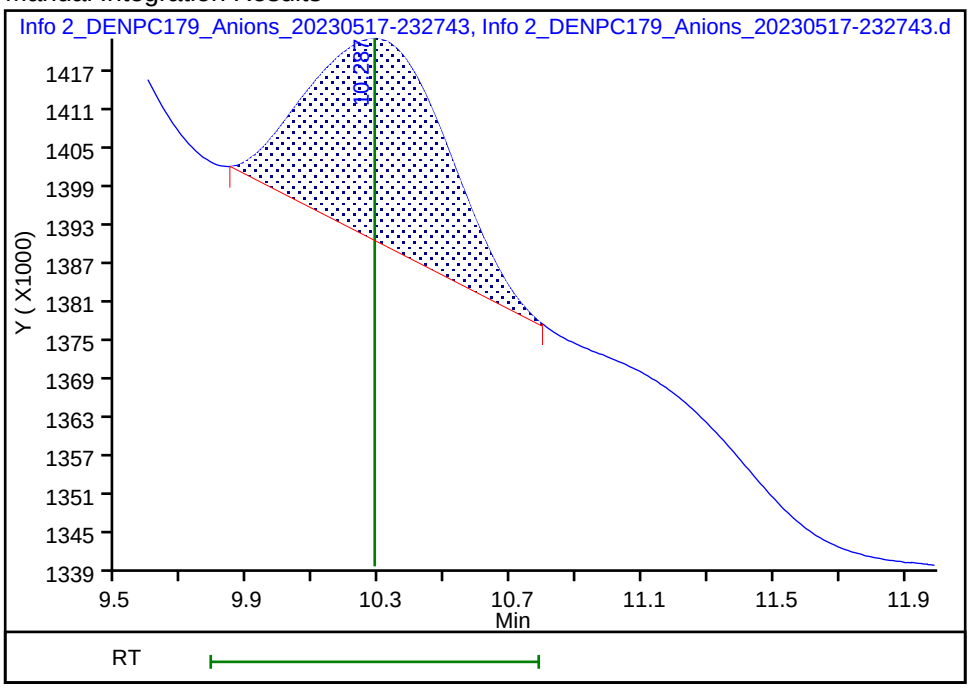
RT: 10.29
Area: 5263282
Amount: 0
Amount Units: ug/ml

Processing Integration Results



RT: 10.29
Area: 935888
Amount: 0.160823
Amount Units: ug/ml

Manual Integration Results



Reviewer: LVW8, 18-May-2023 10:29:53 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-235
Lims ID: 280-176591-C-2
Client ID: WBGmw-006-230401-GW
Sample Type: Client
Inject. Date: 17-May-2023 23:42:00 ALS Bottle#: 0 Worklist Smp#: 48
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-048
Misc. Info.: 280-0121544-048
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:33 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:30:41

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	
2 Chloride	4.305	4.310	-0.005	14338602	0.8843	M
3 Nitrite as N		4.995			ND	
4 Bromide	6.253	6.233	0.020	3167014	0.3239	
5 Nitrate as N		6.907			ND	
6 Orthophosphate as P	9.223	9.110	0.113	2822761	NC	
7 Sulfate	10.262	10.285	-0.023	334449537	24.3	M

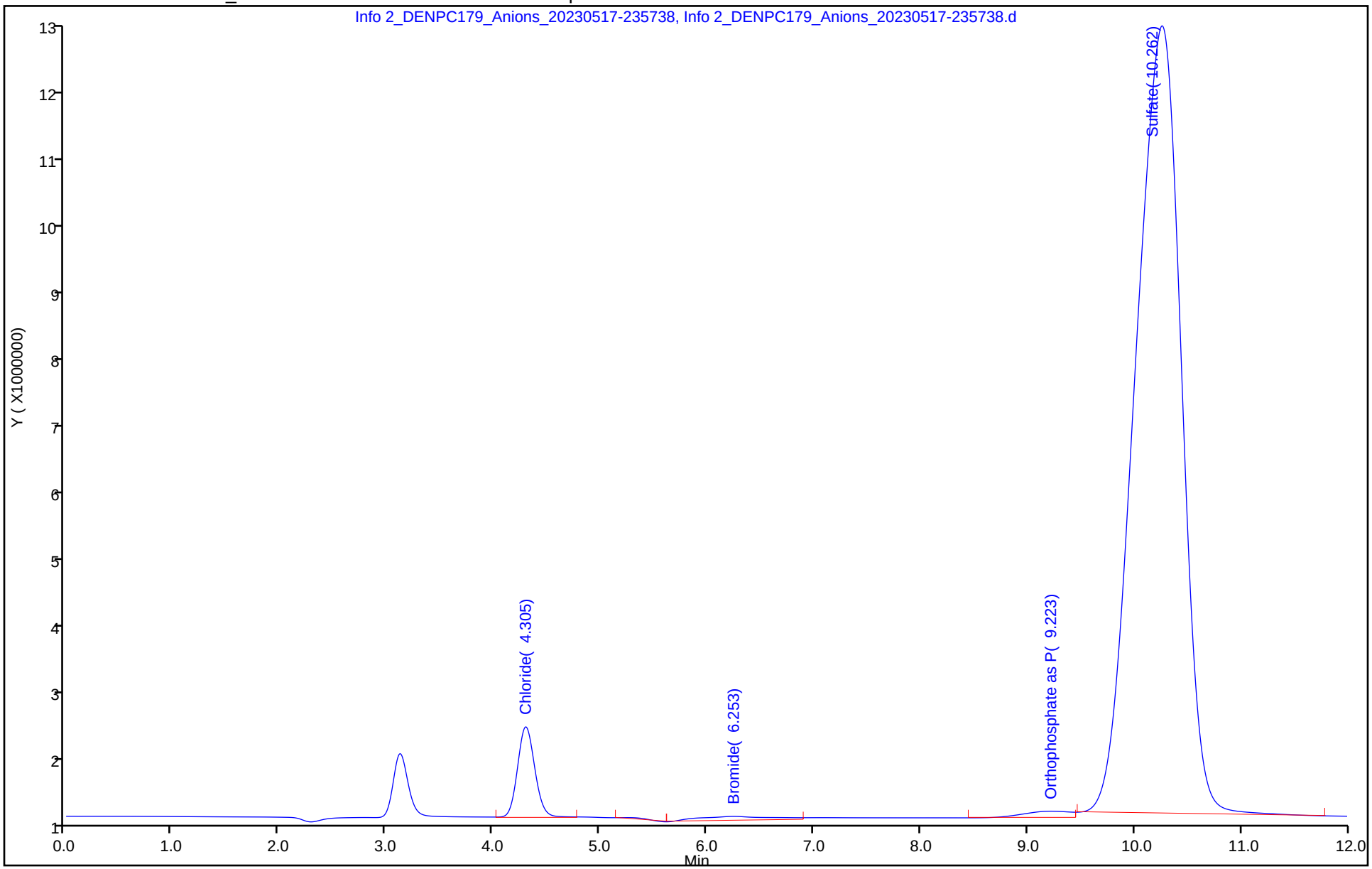
QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Report Date: 18-May-2023 10:40:39 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-235738.d				
Injection Date:	17-May-2023 23:42:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	280-176591-C-2	Lab Sample ID:	280-176591-2	Worklist Smp#:	48
Client ID:	WBGmw-006-230401-GW				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

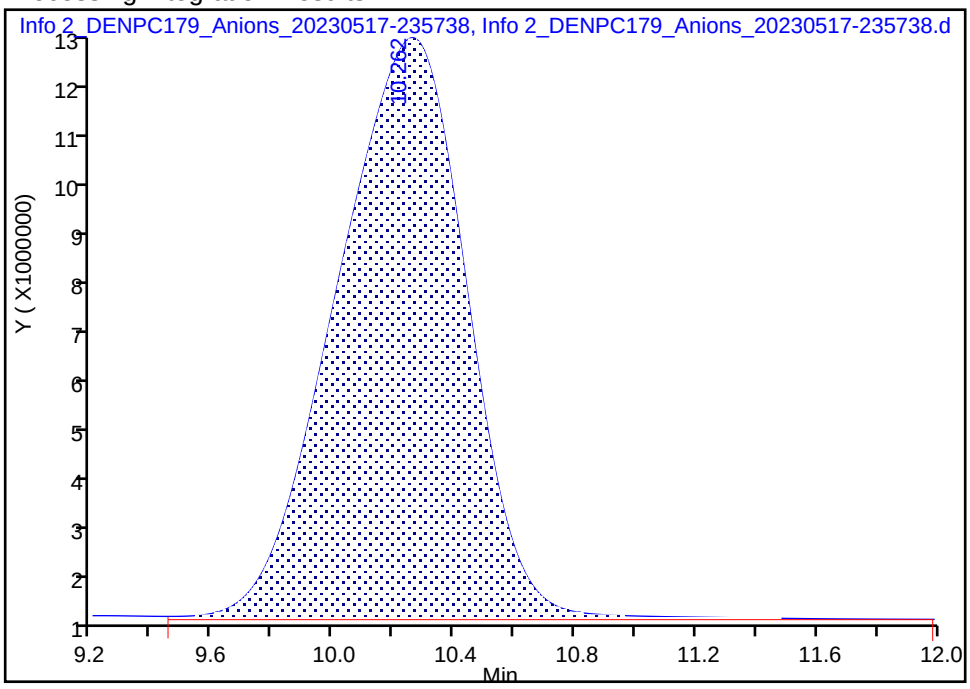
Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230517-235				
Injection Date:	17-May-2023 23:42:00	Instrument ID:	WC_IonChrom10		
Lims ID:	280-176591-C-2	Lab Sample ID:	280-176591-2		
Client ID:	WBGmw-006-230401-GW				
Operator ID:	wetchemd	ALS Bottle#:	0	Worklist Smp#:	48
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		
Column:		Detector	Info 2_091554_1		

7 Sulfate, CAS: 14808-79-8

Signal: 1

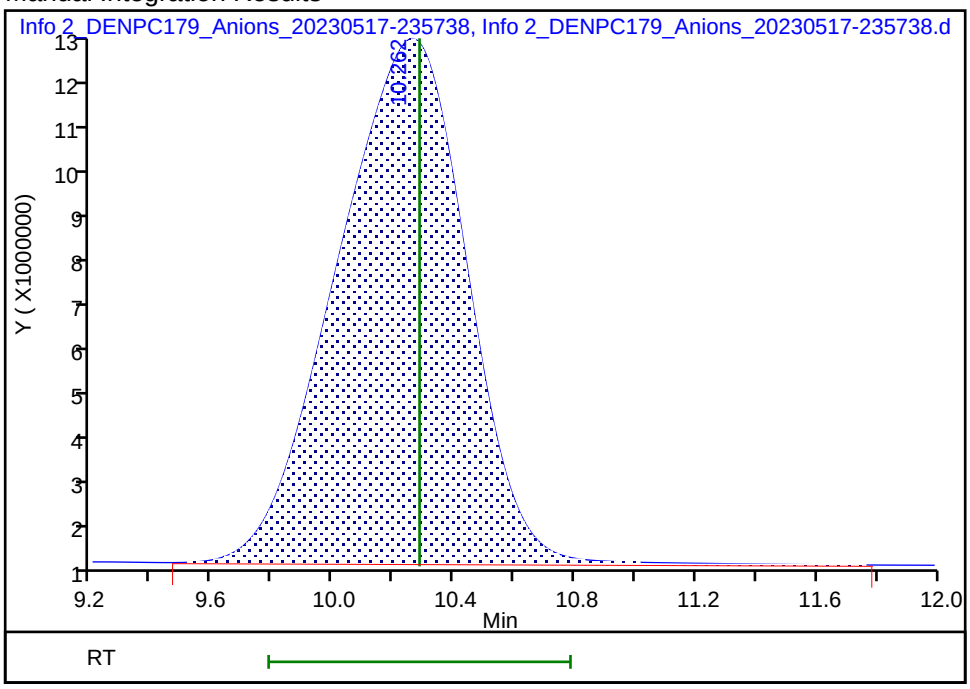
Processing Integration Results

RT: 10.26
Area: 340923218
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 10.26
Area: 334449537
Amount: 24.322975
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:30:39 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-004
Lims ID: 280-176591-C-7
Client ID: WBGMW-RBmw-018-2023
Sample Type: Client
Inject. Date: 18-May-2023 00:27:00 ALS Bottle#: 0 Worklist Smp#: 51
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-051
Misc. Info.: 280-0121544-051
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:33 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:31:18

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	
2 Chloride		4.310			ND	
3 Nitrite as N		4.995			ND	
4 Bromide		6.233			ND	U
5 Nitrate as N		6.907			ND	
6 Orthophosphate as P	9.148	9.110	0.038	2822705	NC	
7 Sulfate	10.310	10.285	0.025	883585	0.1570	M

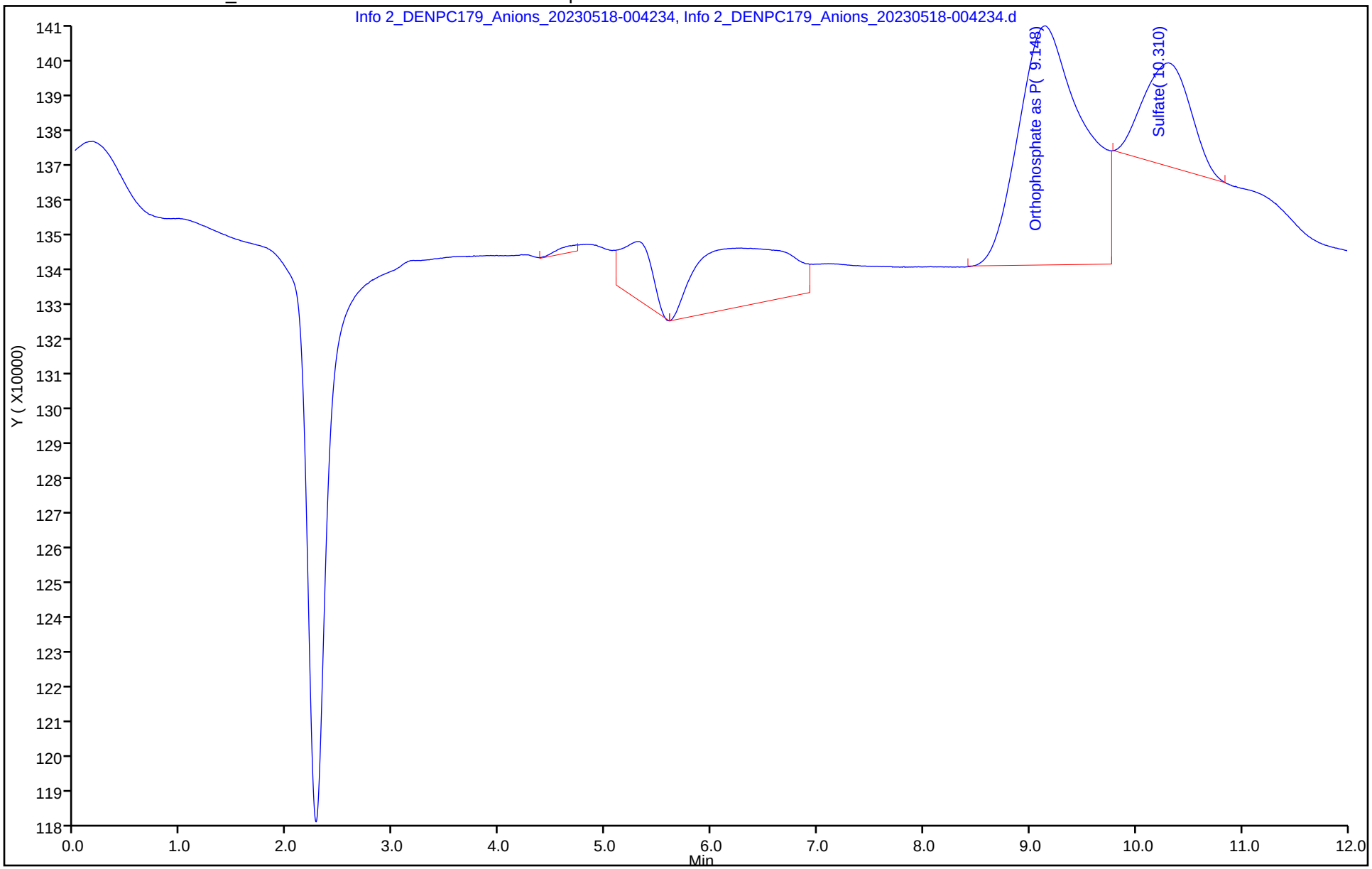
QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 18-May-2023 10:40:40 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-004234.d				
Injection Date:	18-May-2023 00:27:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	280-176591-C-7	Lab Sample ID:	280-176591-7	Worklist Smp#:	51
Client ID:	WBGMW-RBmw-018-2023				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

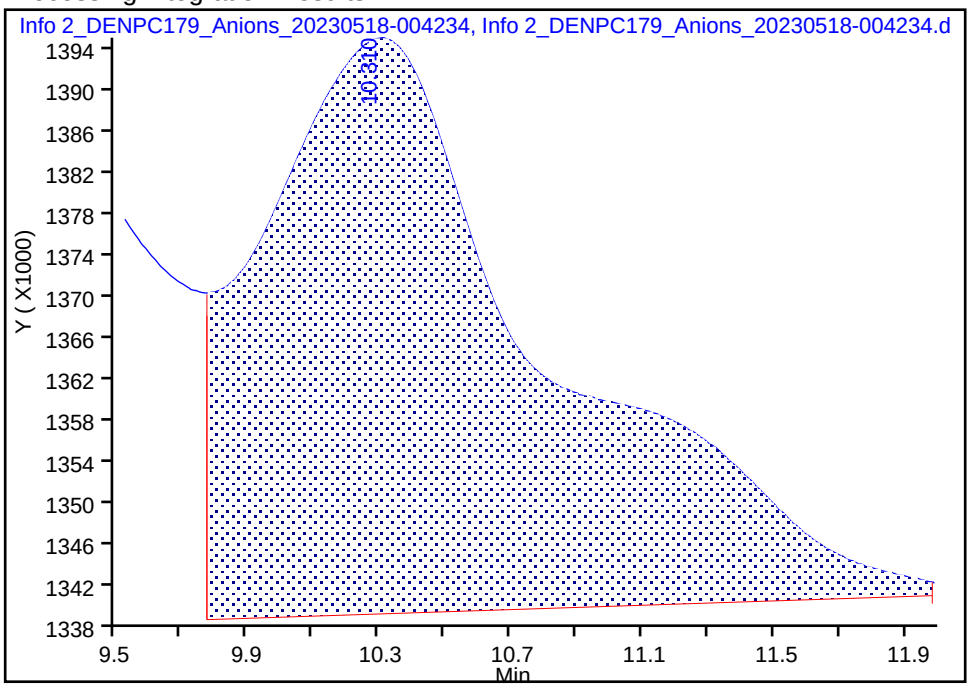
Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-004				
Injection Date:	18-May-2023 00:27:00	Instrument ID:	WC_IonChrom10		
Lims ID:	280-176591-C-7	Lab Sample ID:	280-176591-7		
Client ID:	WBGMW-RBmw-018-2023				
Operator ID:	wetchemd	ALS Bottle#:	0	Worklist Smp#:	51
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		
Column:		Detector	Info 2_091554_1		

7 Sulfate, CAS: 14808-79-8

Signal: 1

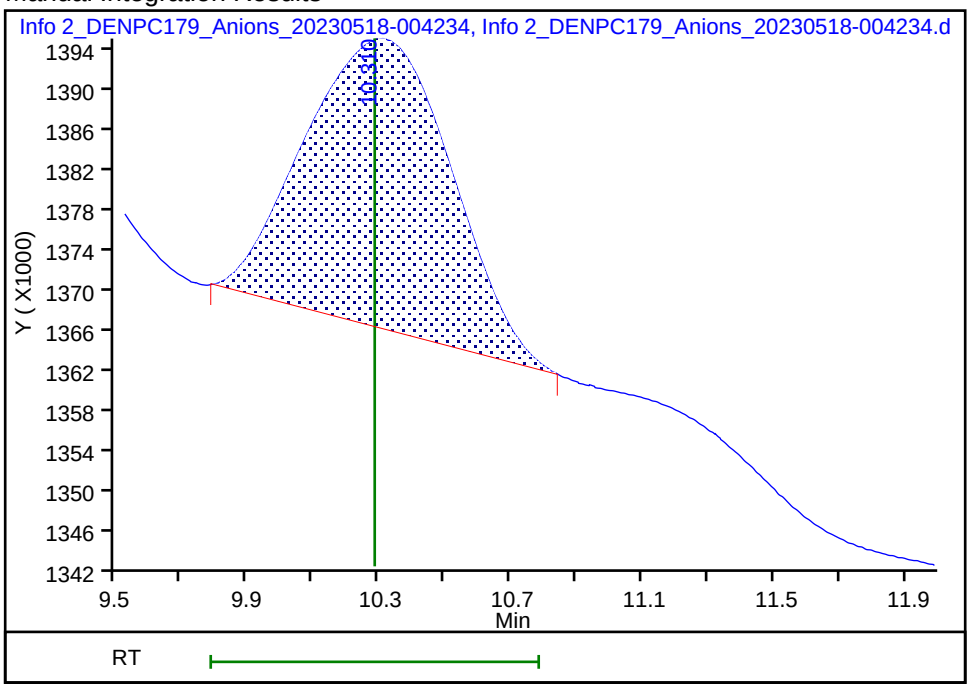
RT: 10.31
Area: 3346243
Amount: 0
Amount Units: ug/ml

Processing Integration Results



RT: 10.31
Area: 883585
Amount: 0.157034
Amount Units: ug/ml

Manual Integration Results



Reviewer: LVW8, 18-May-2023 10:31:12 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-005
Lims ID: 280-176591-C-7 DU
Client ID:
Sample Type: DU
Inject. Date: 18-May-2023 00:42:00 ALS Bottle#: 0 Worklist Smp#: 52
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-052
Misc. Info.: 280-0121544-052
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:33 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:31:29

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143				ND	
2 Chloride		4.310				ND	
3 Nitrite as N		4.995				ND	
4 Bromide		6.233				ND	U
5 Nitrate as N		6.907				ND	
6 Orthophosphate as P	9.150	9.110	0.040	2344440		NC	
7 Sulfate	10.302	10.285	0.017	981639		0.1641	M

QC Flag Legend

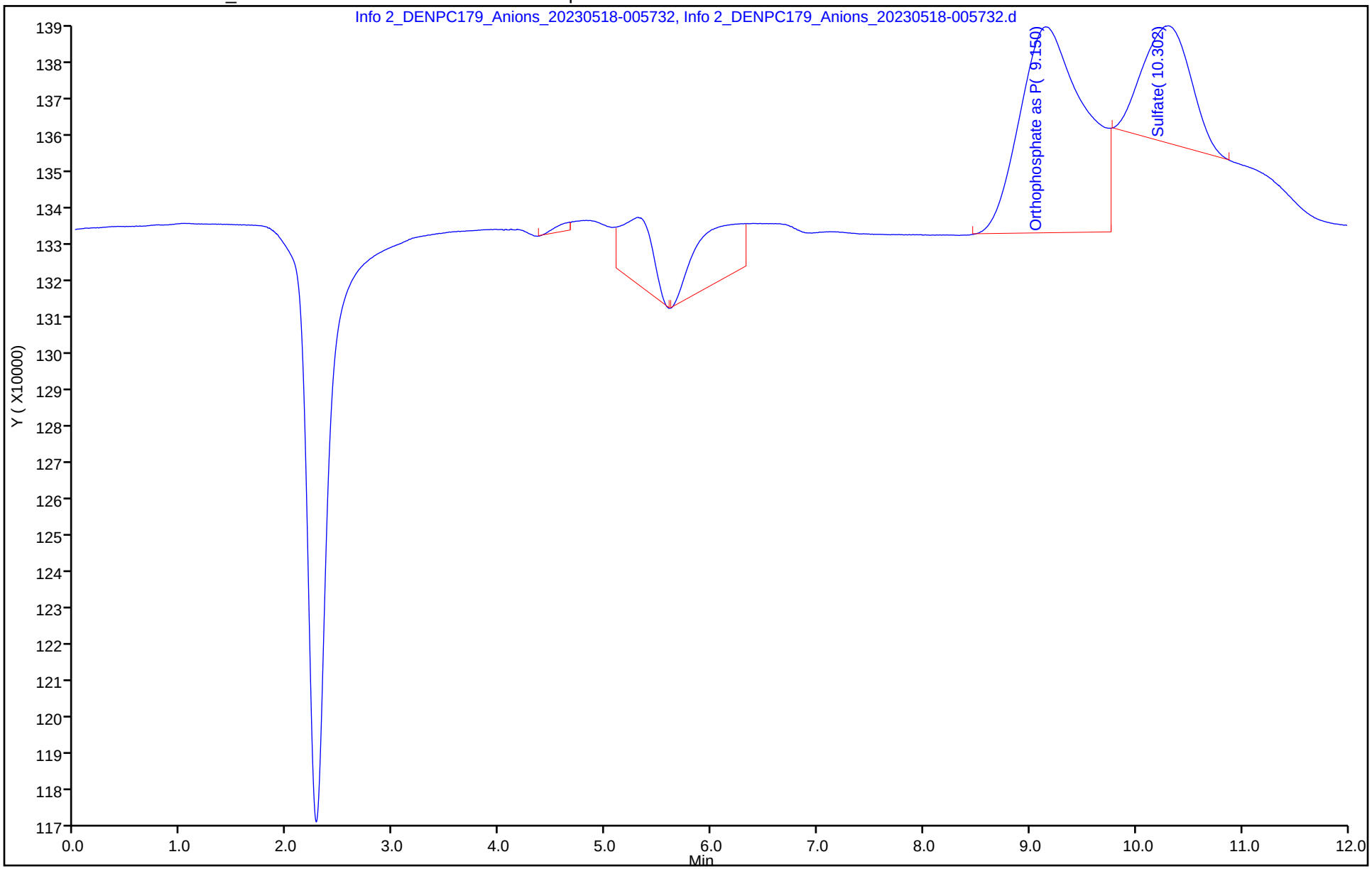
Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 18-May-2023 10:40:41 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-005732.d

Injection Date:	18-May-2023 00:42:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	280-176591-C-7 DU			Worklist Smp#:	52
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-005

Injection Date: 18-May-2023 00:42:00 Instrument ID: WC_IonChrom10

Lims ID: 280-176591-C-7 DU

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 52

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

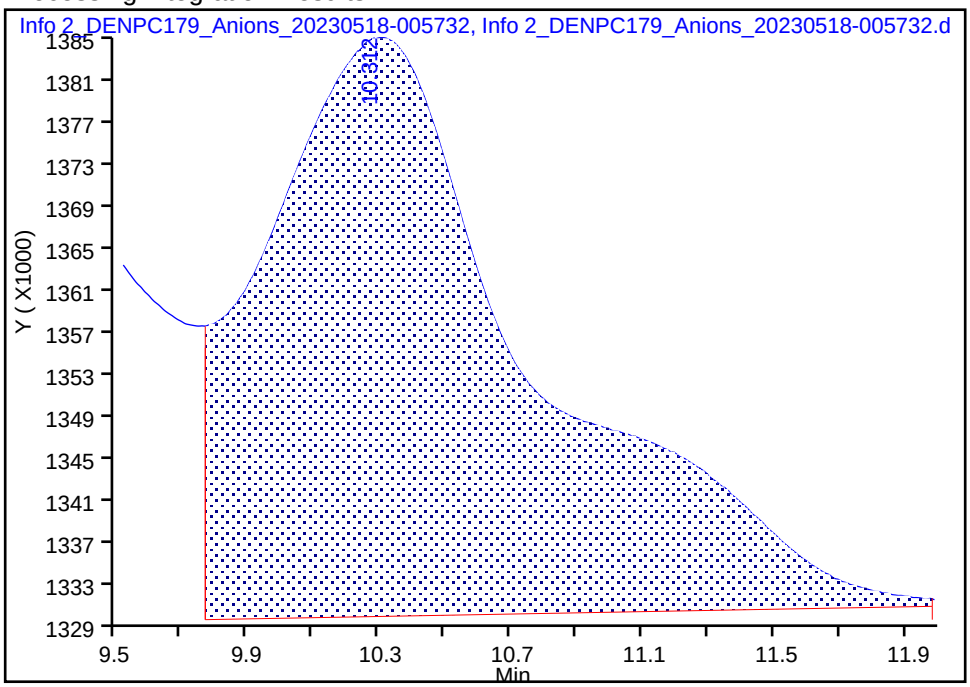
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

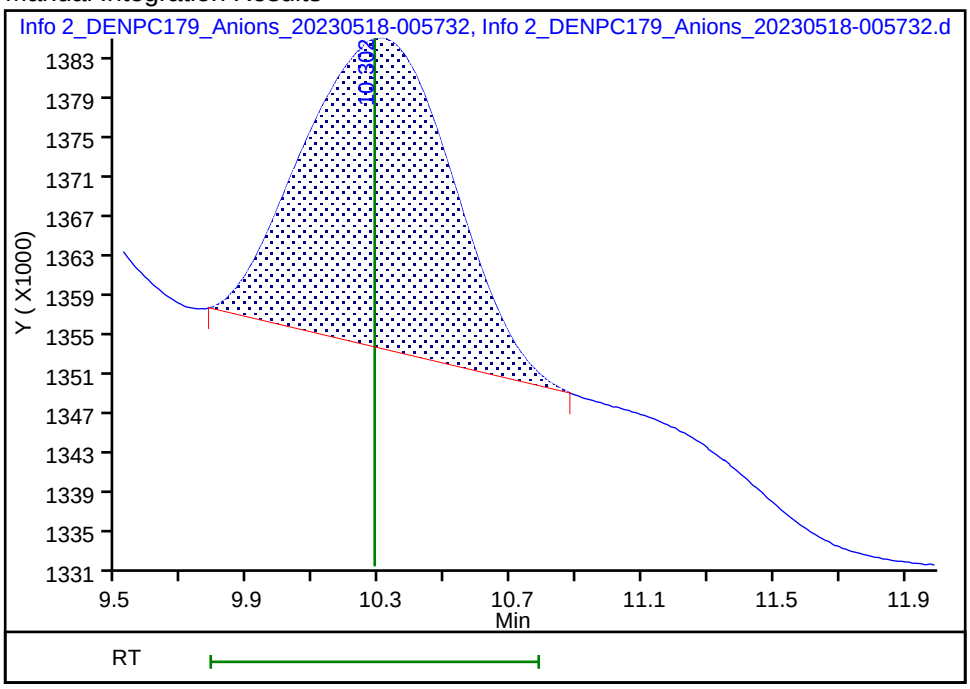
Processing Integration Results

RT: 10.31
Area: 3126383
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 10.30
Area: 981639
Amount: 0.164137
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:31:26 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-011
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 18-May-2023 00:57:00 ALS Bottle#: 0 Worklist Smp#: 53
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-053
Misc. Info.: 280-0121544-053
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:41 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:31:52

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	ND	
2 Chloride	4.312	4.310	0.002	929645160	50.0	48.6	M
3 Nitrite as N	4.998	4.995	0.003	106362056	NC	NC	M
4 Bromide	6.143	6.233	-0.090	18044648	2.50	2.51	
5 Nitrate as N	6.900	6.907	-0.007	108329185	NC	NC	M
6 Orthophosphate as P	9.047	9.110	-0.063	58931655	NC	NC	
7 Sulfate	10.225	10.285	-0.060	659703887	50.0	47.9	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

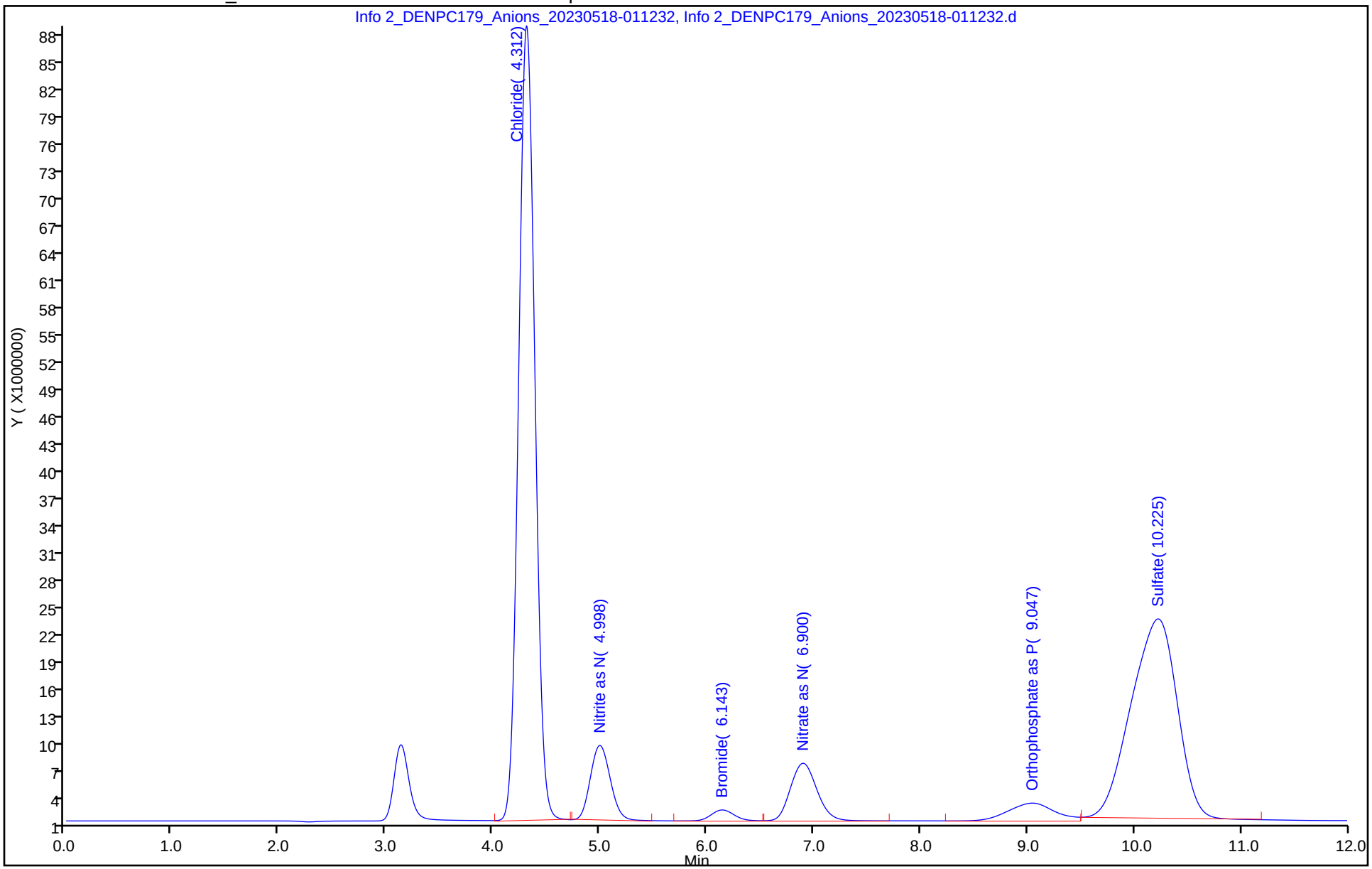
Reagents:

IC LCS_01954 Amount Added: 10.00 Units: mL

Report Date: 18-May-2023 10:40:42 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-011232.d				
Injection Date:	18-May-2023 00:57:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ccv			Worklist Smp#:	53
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

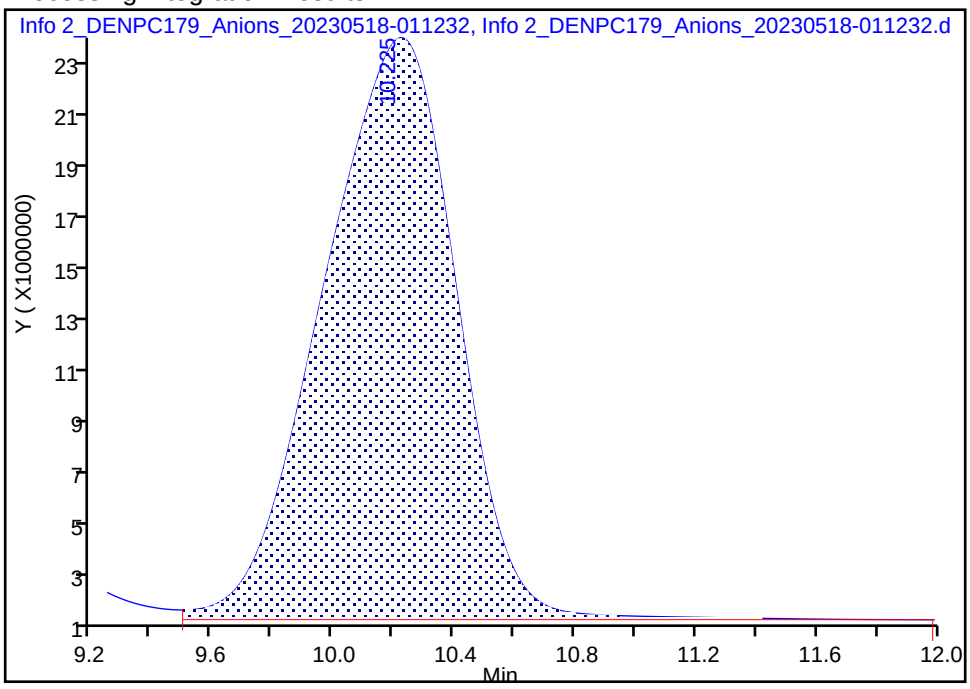
Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-011
Injection Date: 18-May-2023 00:57:00 Instrument ID: WC_IonChrom10
Lims ID: ccv
Client ID:
Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 53
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: Anions_IC10 Limit Group: Wet - Anions 28D
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

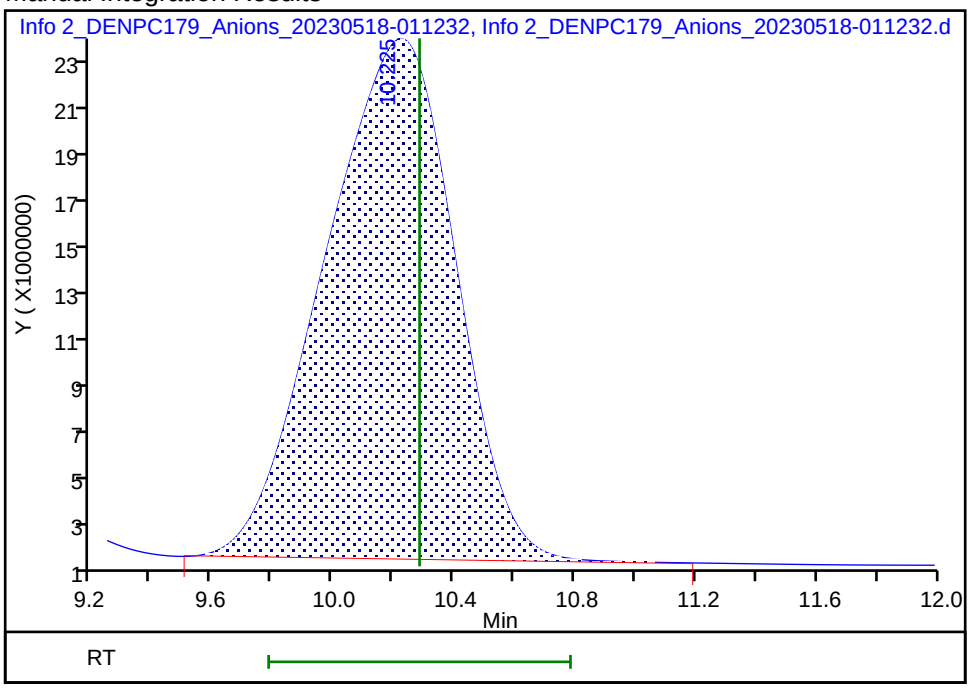
Processing Integration Results

RT: 10.23
Area: 687660513
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 10.23
Area: 659703887
Amount: 47.886764
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:31:49 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-012
Lims ID: ccb
Client ID:
Sample Type: CCB
Inject. Date: 18-May-2023 01:12:00 ALS Bottle#: 0 Worklist Smp#: 54
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-054
Misc. Info.: 280-0121544-054
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:41 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:32:04

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143				ND	
2 Chloride		4.310				ND	
3 Nitrite as N		4.995				ND	U
4 Bromide		6.233				ND	U
5 Nitrate as N		6.907				ND	
6 Orthophosphate as P	9.132	9.110	0.022	7023581		NC	
7 Sulfate	10.290	10.285	0.005	917804		0.1595	M

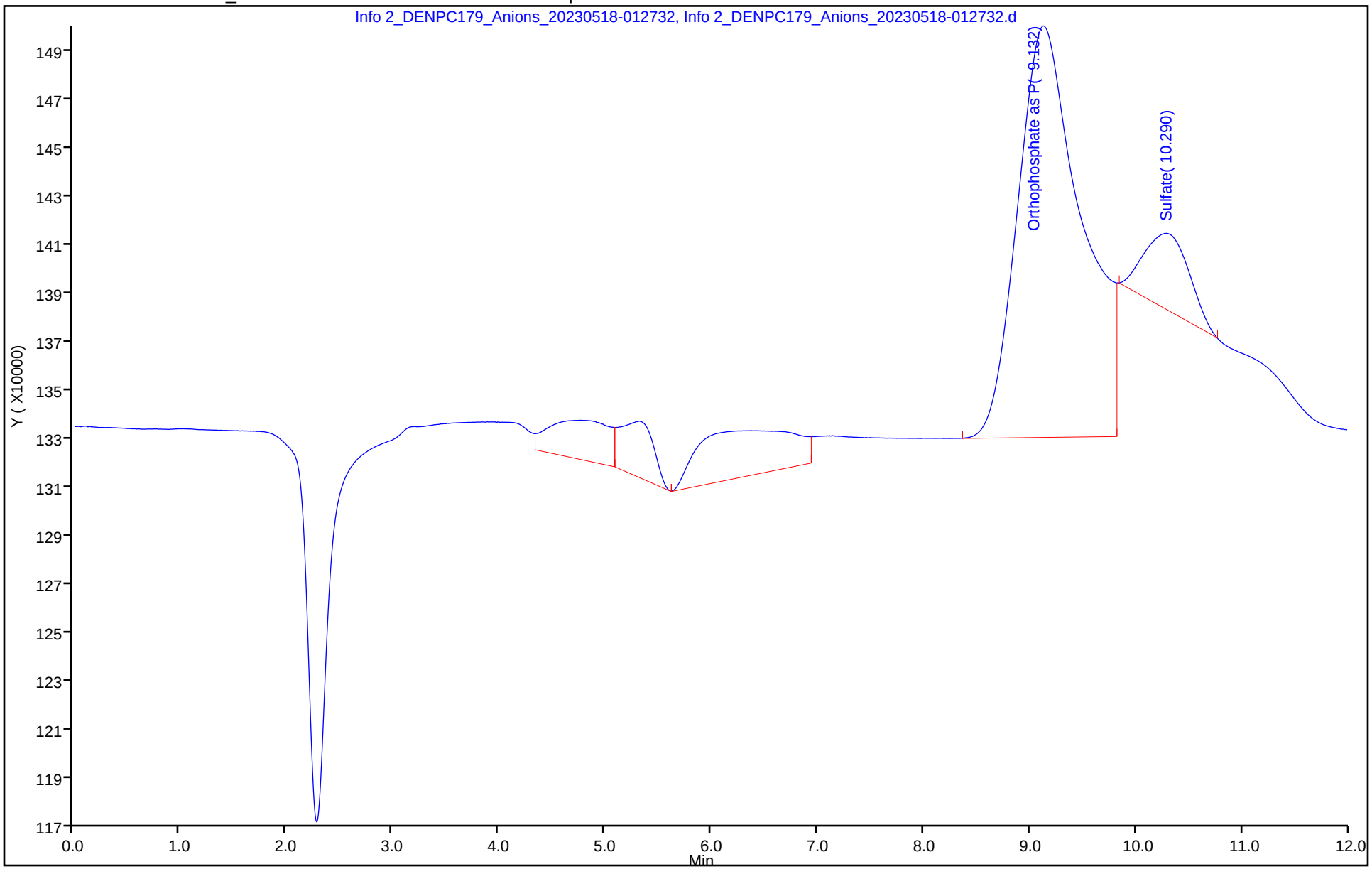
QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 18-May-2023 10:40:42 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-012732.d				
Injection Date:	18-May-2023 01:12:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ccb			Worklist Smp#:	54
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-012

Injection Date: 18-May-2023 01:12:00 Instrument ID: WC_IonChrom10

Lims ID: ccb

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 54

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

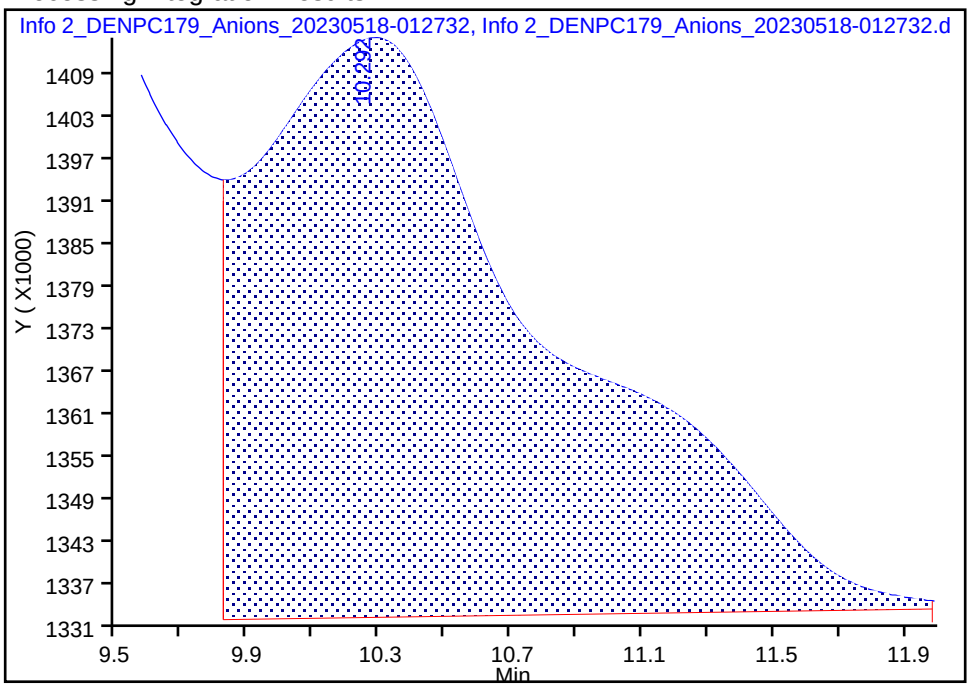
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

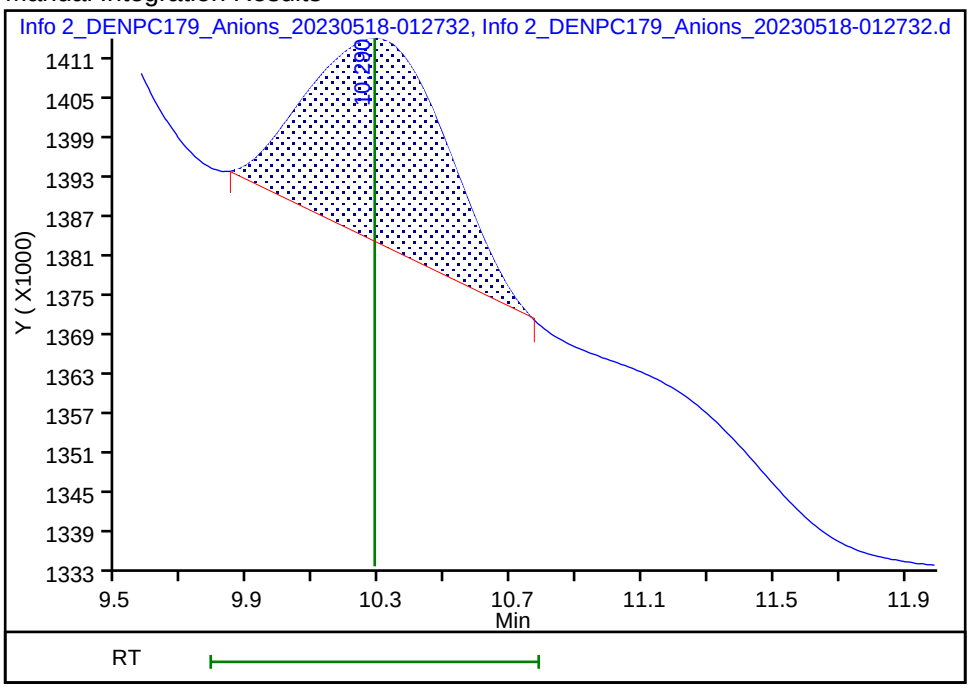
Processing Integration Results

RT: 10.29
Area: 5217762
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 10.29
Area: 917804
Amount: 0.159513
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:31:57 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-014
Lims ID: 280-176591-C-7 MS
Client ID:
Sample Type: MS
Inject. Date: 18-May-2023 01:27:00 ALS Bottle#: 0 Worklist Smp#: 55
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-055
Misc. Info.: 280-0121544-055
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:41 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:32:25

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	ND	
2 Chloride	4.313	4.310	0.003	964149887	50.0	50.4	M
3 Nitrite as N	4.995	4.995	0.000	212181370	NC	NC	M
4 Bromide	6.142	6.233	-0.091	36907126	5.00	5.27	E
5 Nitrate as N	6.883	6.907	-0.024	229730215	NC	NC	M
6 Orthophosphate as P	9.037	9.110	-0.073	110283127	NC	NC	
7 Sulfate	10.228	10.285	-0.057	676881137	50.0	49.1	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
E - Exceeded Maximum Amount
Review Flags
M - Manually Integrated

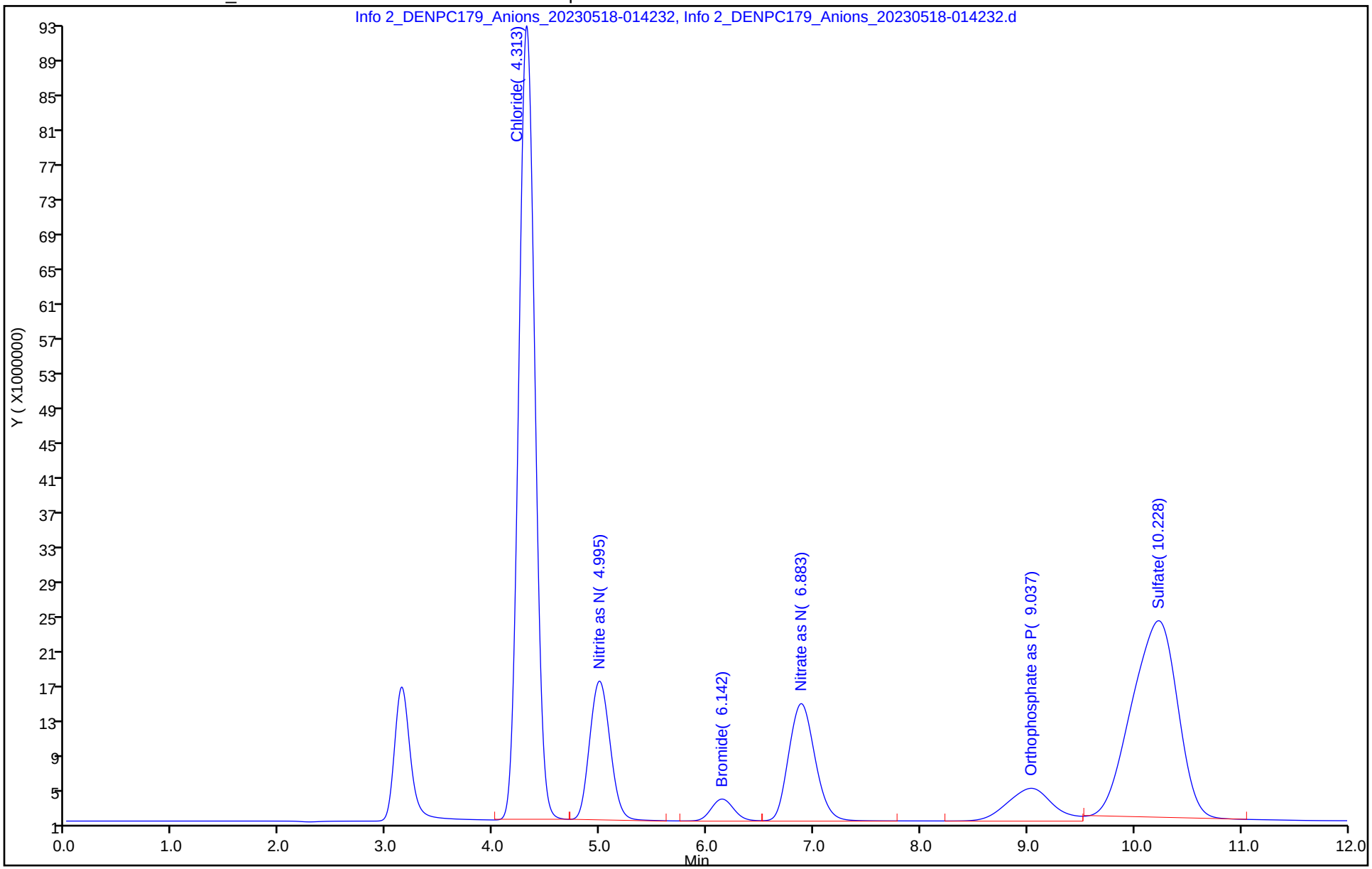
Reagents:

ICMS/MSD WEEK_00819 Amount Added: 0.10 Units: mL

Report Date: 18-May-2023 10:40:43 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-014232.d				
Injection Date:	18-May-2023 01:27:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	280-176591-C-7 MS			Worklist Smp#:	55
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-014

Injection Date: 18-May-2023 01:27:00 Instrument ID: WC_IonChrom10

Lims ID: 280-176591-C-7 MS

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 55

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

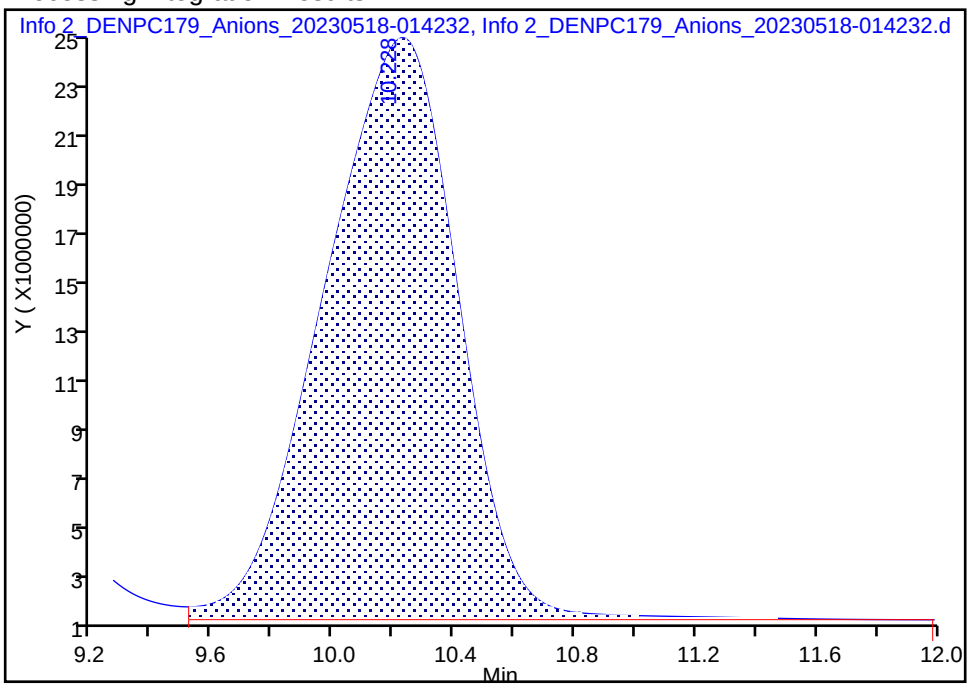
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

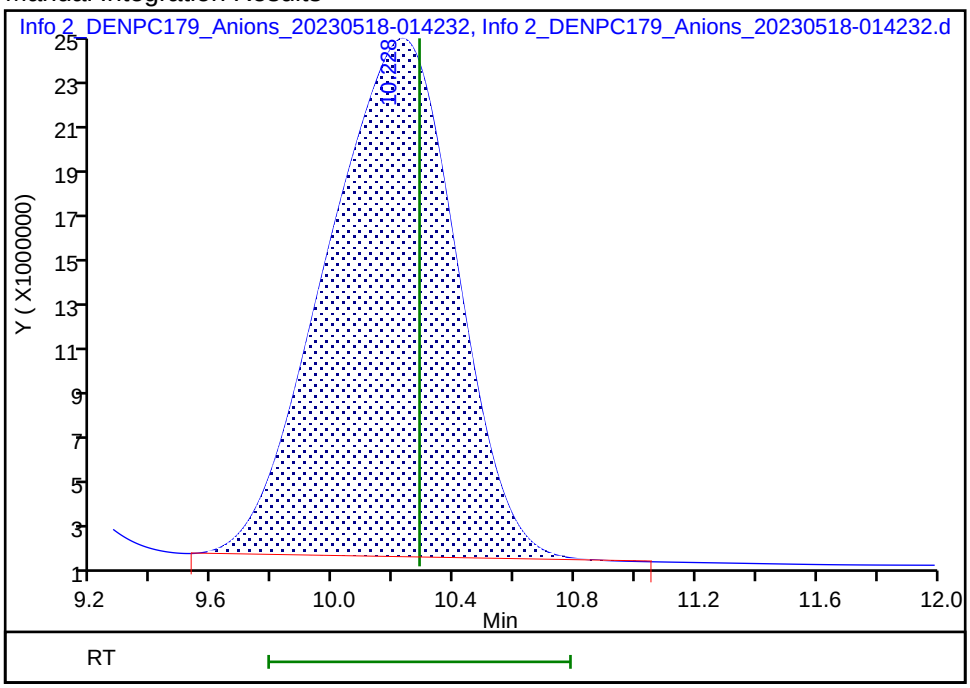
Processing Integration Results

RT: 10.23
Area: 713025994
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 10.23
Area: 676881137
Amount: 49.131209
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:32:24 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-015
Lims ID: 280-176591-C-7 MSD
Client ID:
Sample Type: MSD
Inject. Date: 18-May-2023 01:42:00 ALS Bottle#: 0 Worklist Smp#: 56
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-056
Misc. Info.: 280-0121544-056
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:41 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:32:45

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	ND	
2 Chloride	4.310	4.310	0.000	965184232	50.0	50.4	M
3 Nitrite as N	4.992	4.995	-0.003	212123636	NC	NC	M
4 Bromide	6.142	6.233	-0.091	36953962	5.00	5.28	E
5 Nitrate as N	6.882	6.907	-0.025	230038638	NC	NC	M
6 Orthophosphate as P	9.033	9.110	-0.077	111037726	NC	NC	
7 Sulfate	10.227	10.285	-0.058	676182546	50.0	49.1	M

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND
- E - Exceeded Maximum Amount

Review Flags
- M - Manually Integrated

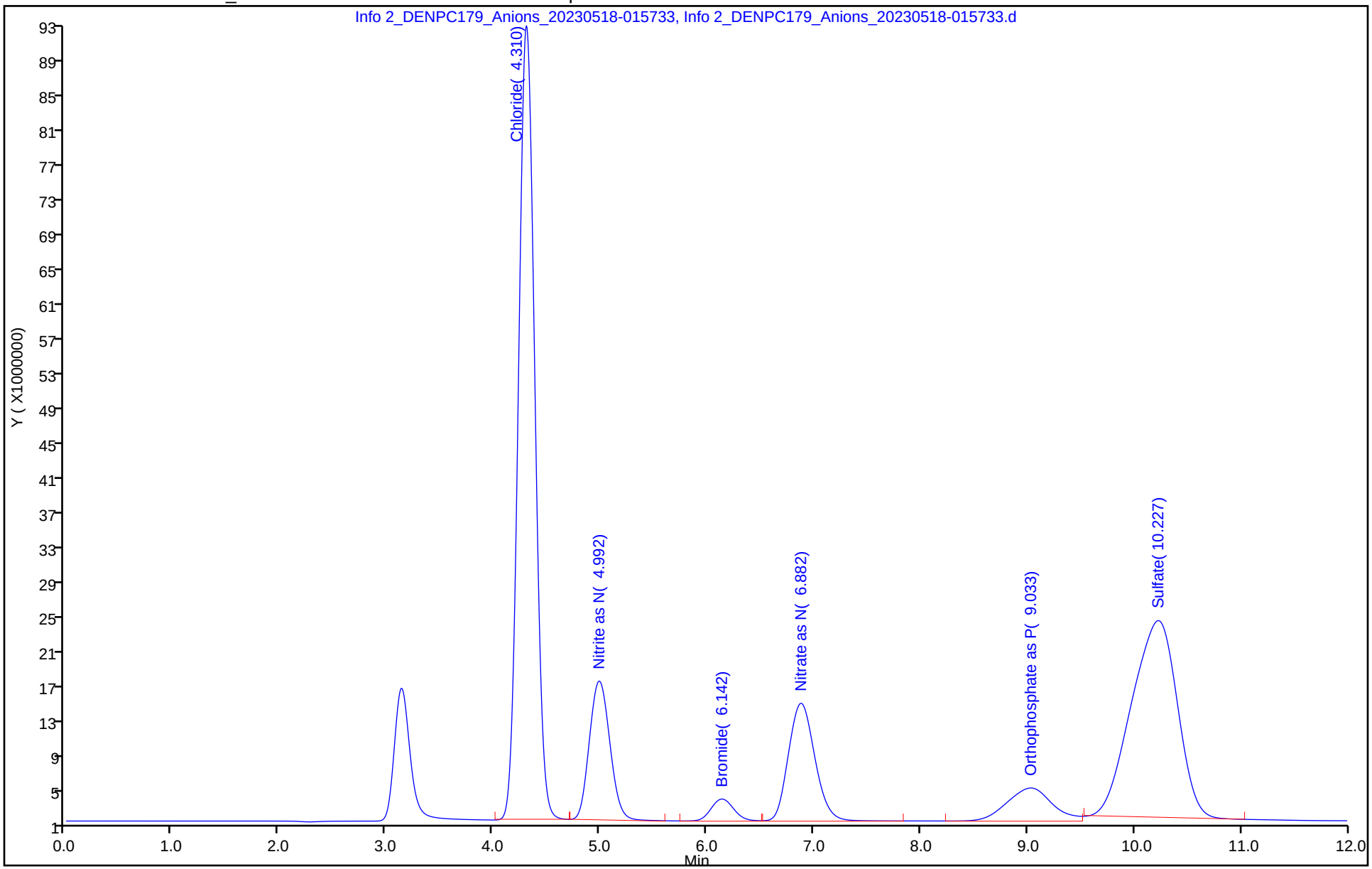
Reagents:

ICMS/MSD WEEK_00819 Amount Added: 0.10 Units: mL

Report Date: 18-May-2023 10:40:44 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-015733.d				
Injection Date:	18-May-2023 01:42:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	280-176591-C-7 MSD			Worklist Smp#:	56
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

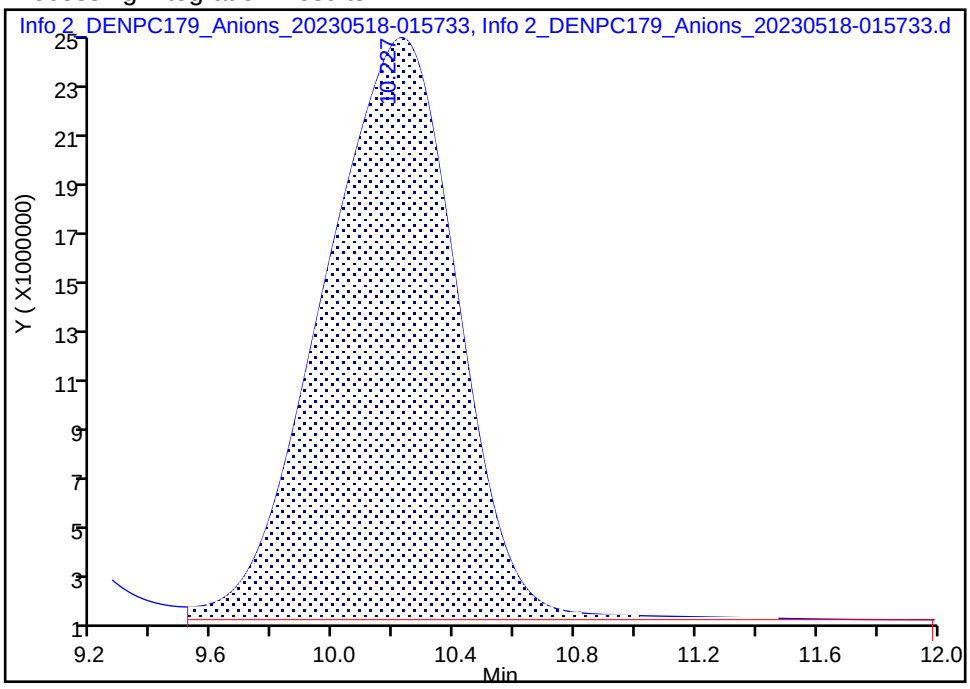
Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-015
Injection Date: 18-May-2023 01:42:00 Instrument ID: WC_IonChrom10
Lims ID: 280-176591-C-7 MSD
Client ID:
Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 56
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: Anions_IC10 Limit Group: Wet - Anions 28D
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

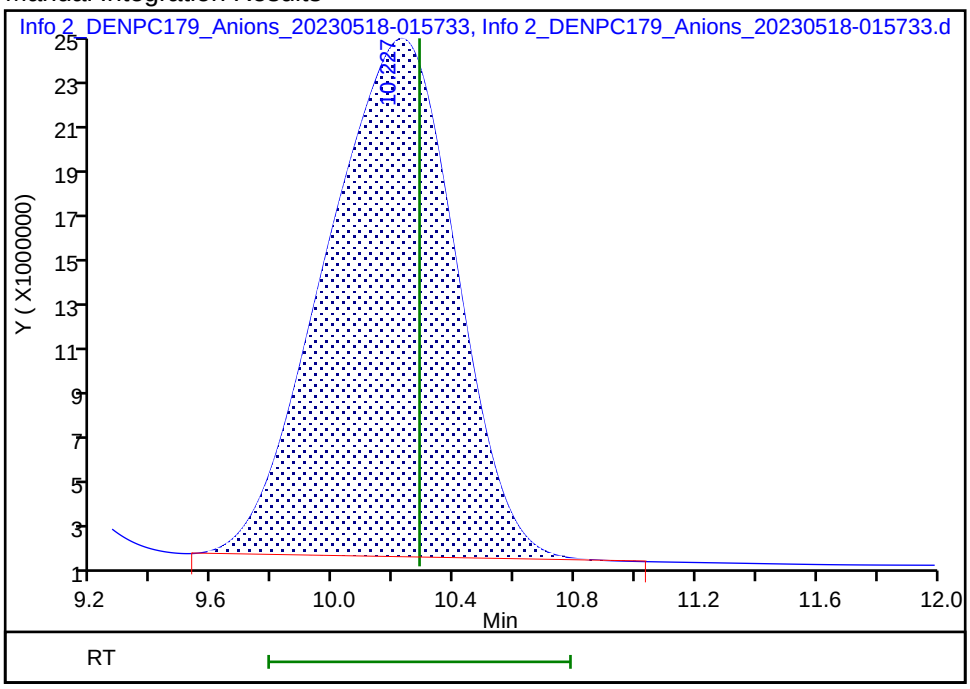
Processing Integration Results

RT: 10.23
Area: 712201968
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 10.23
Area: 676182546
Amount: 49.080598
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:32:43 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-041
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 18-May-2023 03:57:00 ALS Bottle#: 0 Worklist Smp#: 65
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-065
Misc. Info.: 280-0121544-065
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Sublist: chrom-Anions_IC10*sub5

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:50 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:38:37

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143			ND	ND	
2 Chloride	4.312	4.310	0.002	928387494	50.0	48.5	M
3 Nitrite as N	5.000	4.995	0.005	107784896	NC	NC	M
4 Bromide	6.137	6.233	-0.096	17846244	2.50	2.48	
5 Nitrate as N	6.902	6.907	-0.005	107664826	NC	NC	M
6 Orthophosphate as P	9.037	9.110	-0.073	59737624	NC	NC	
7 Sulfate	10.217	10.285	-0.068	653007832	50.0	47.4	M

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated

Reagents:

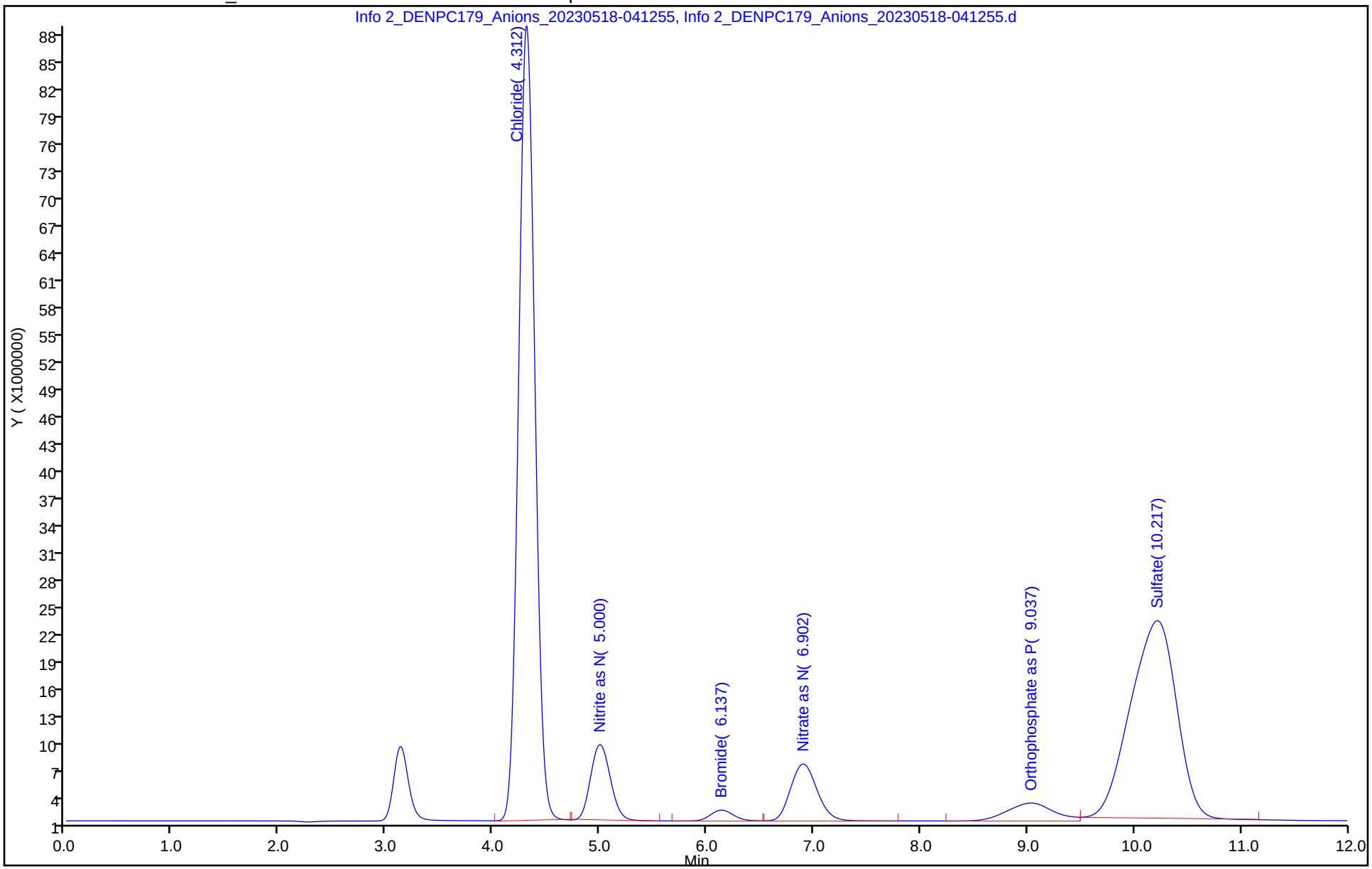
IC LCS_01954 Amount Added: 10.00 Units: mL

Report Date: 18-May-2023 10:40:50 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-041255.d

Injection Date:	18-May-2023 03:57:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ccv			Worklist Smp#:	65
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-041

Injection Date: 18-May-2023 03:57:00 Instrument ID: WC_IonChrom10

Lims ID: ccv

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 65

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

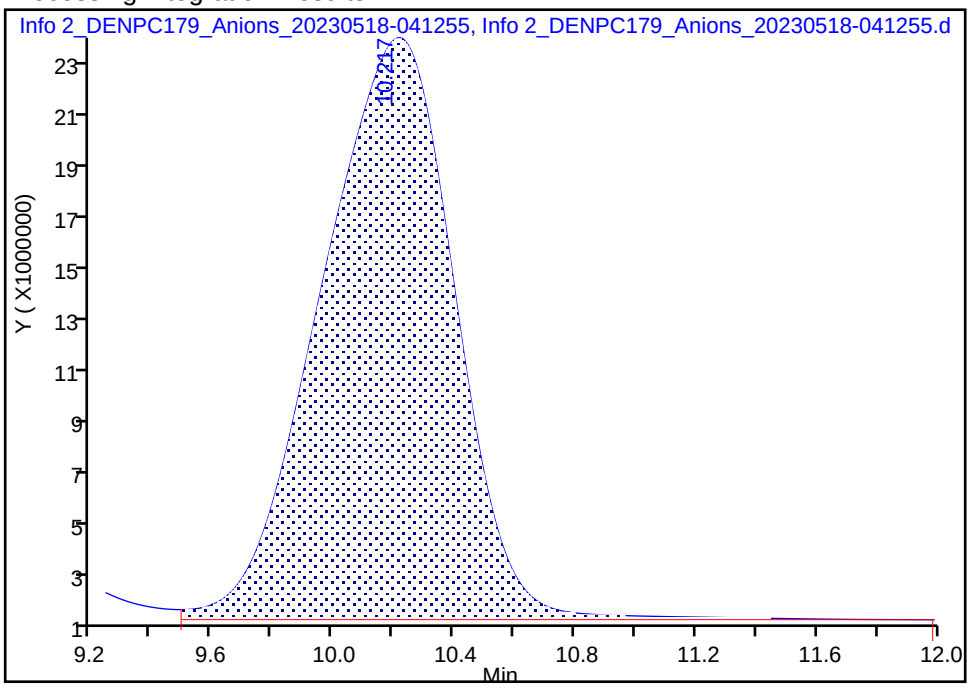
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

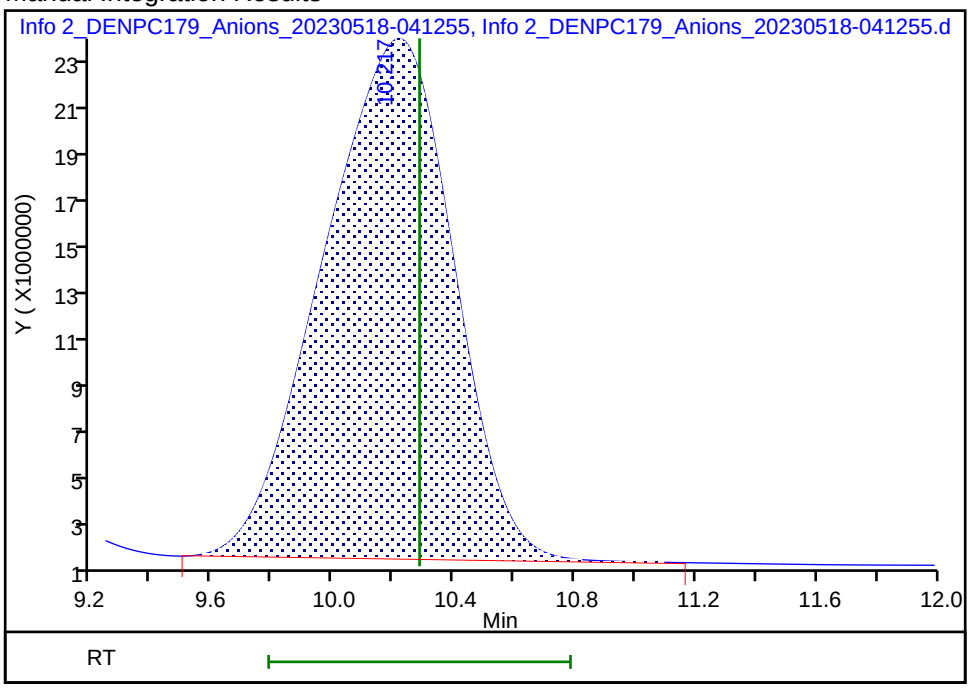
Processing Integration Results

RT: 10.22
Area: 681982496
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 10.22
Area: 653007832
Amount: 47.401654
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:38:35 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-042
Lims ID: ccb
Client ID:
Sample Type: CCB
Inject. Date: 18-May-2023 04:12:00 ALS Bottle#: 0 Worklist Smp#: 66
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0121544-066
Misc. Info.: 280-0121544-066
Operator ID: wetchemd Instrument ID: WC_IonChrom10

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2023 10:40:50 Calib Date: 12-Apr-2023 15:19:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230412-120345.b\Info 2_DENPC179_Anions_20230412-153

Column 1 : Det: Info 2_091554_1
Process Host: CTX1647

First Level Reviewer: LVW8 Date: 18-May-2023 10:38:51

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.143				ND	
2 Chloride		4.310				ND	
3 Nitrite as N		4.995				ND	U
4 Bromide	6.258	6.233	0.025	376686		-0.0854	
5 Nitrate as N		6.907				ND	
6 Orthophosphate as P	9.125	9.110	0.015	6160262		NC	
7 Sulfate	10.283	10.285	-0.002	812320		0.1519	M

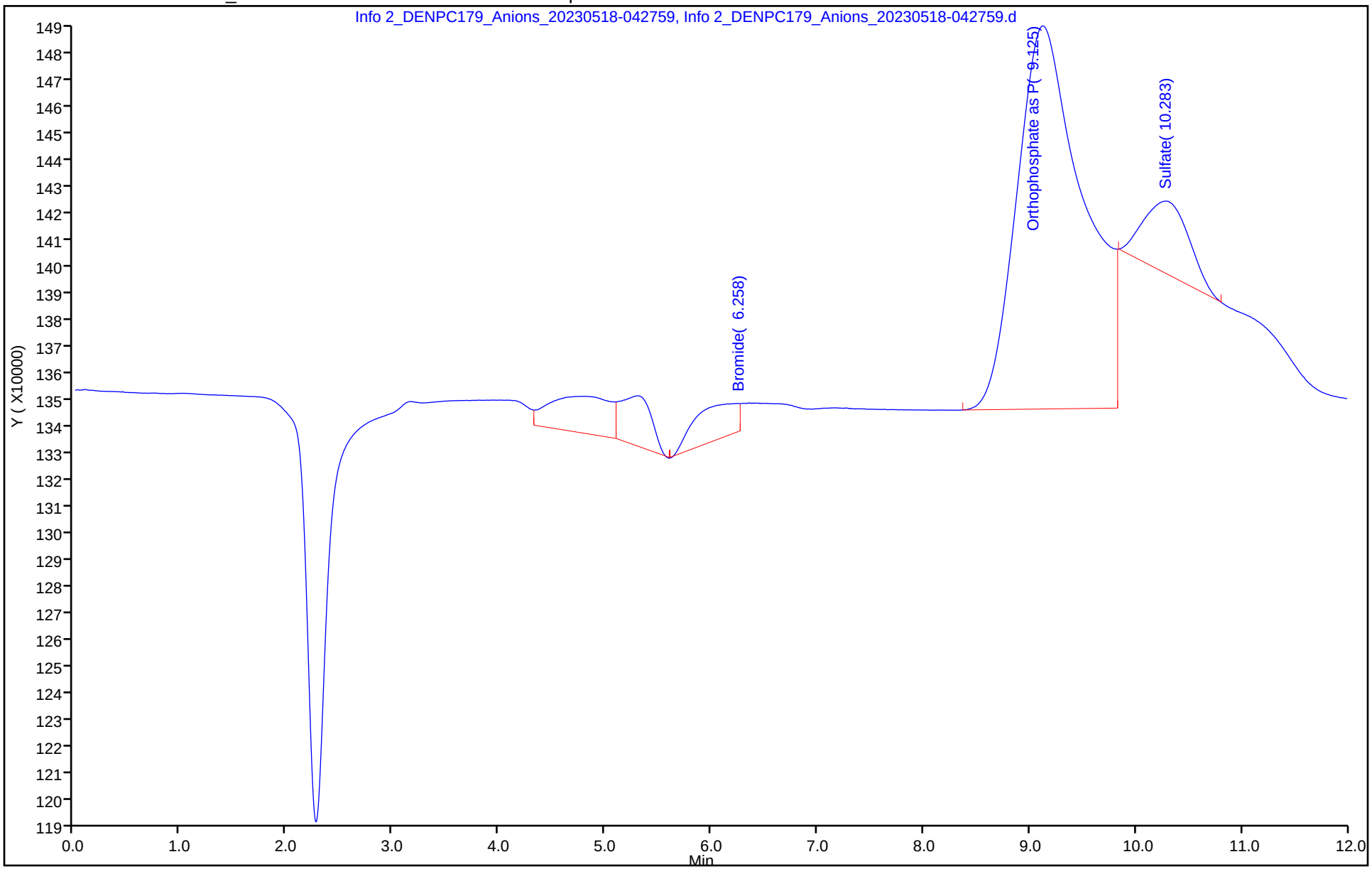
QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 18-May-2023 10:40:51 Chrom Revision: 2.3 16-May-2023 16:37:30

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-042759.d				
Injection Date:	18-May-2023 04:12:00	Instrument ID:	WC_IonChrom10	Operator ID:	wetchemd
Lims ID:	ccb			Worklist Smp#:	66
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC10	Limit Group:	Wet - Anions 28D		



Manual Integration/User Assign Peak Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20230517-121544.b\Info 2_DENPC179_Anions_20230518-042

Injection Date: 18-May-2023 04:12:00 Instrument ID: WC_IonChrom10

Lims ID: ccb

Client ID:

Operator ID: wetchemd ALS Bottle#: 0 Worklist Smp#: 66

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: Anions_IC10 Limit Group: Wet - Anions 28D

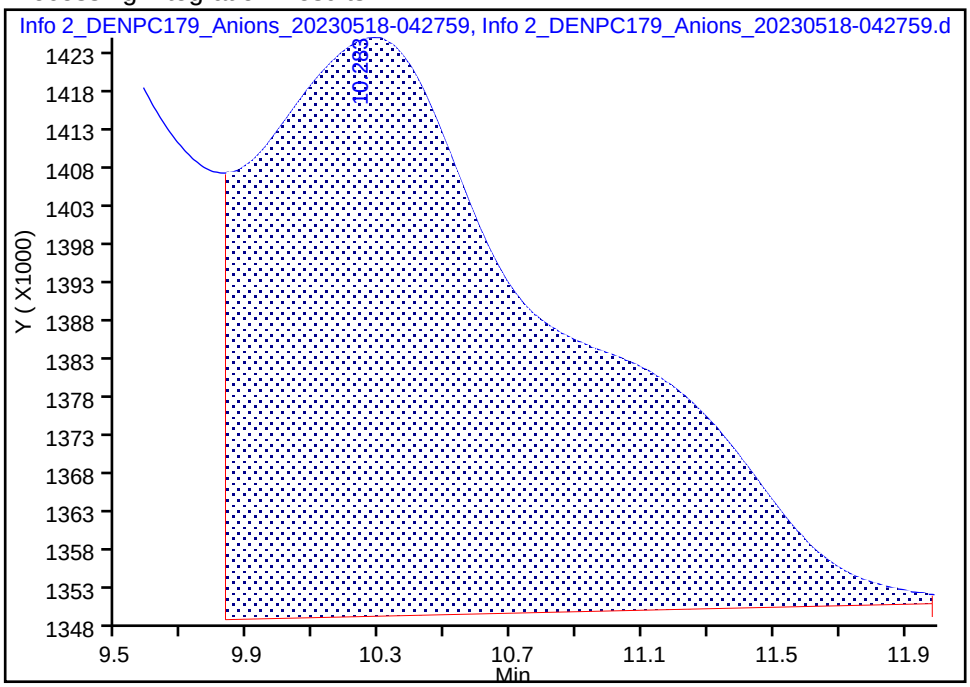
Column: Detector Info 2_091554_1

7 Sulfate, CAS: 14808-79-8

Signal: 1

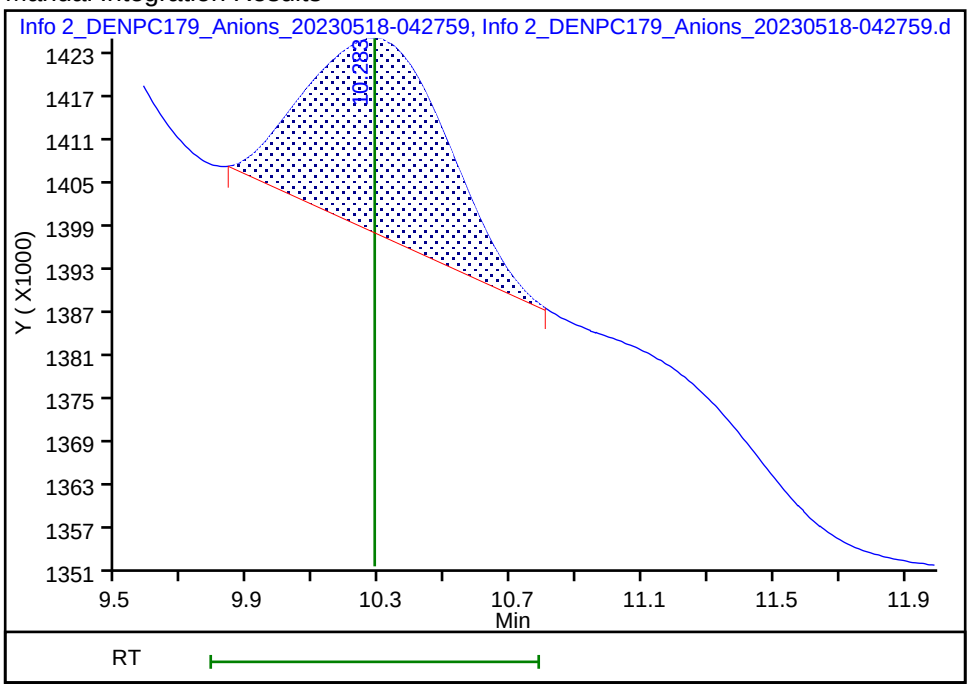
Processing Integration Results

RT: 10.28
Area: 4979058
Amount: 0
Amount Units: ug/ml



Manual Integration Results

RT: 10.28
Area: 812320
Amount: 0.151871
Amount Units: ug/ml



Reviewer: LVW8, 18-May-2023 10:38:42 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

	Analysis	Sample Name	ObjectID
1	NPOC	ICV	0L-10900100866-10101000-134B183250FF-0000
2	NPOC	ICB	0L-10900100866-10101000-134B183250FF-0001
3	NPOC	LCS	0L-10900100866-10101000-134B183250FF-0002
4	NPOC	MB	0L-10900100866-10101000-134B183250FF-0003
5	NPOC	TIC	0L-10900100866-10101000-134B183250FF-0004
6	NPOC	280-176533-a-1	0L-10900100866-10101000-134B183250FF-0005
7	NPOC	MS 280-176533-a-1	0L-10900100866-10101000-134B183250FF-0006
8	NPOC	MSD 280-176533-a-1	0L-10900100866-10101000-134B183250FF-0007
9	NPOC	280-176533-a-2	0L-10900100866-10101000-134B183250FF-0008
10	NPOC	280-176533-a-3	0L-10900100866-10101000-134B183250FF-0009
11	NPOC	280-176533-a-4	0L-10900100866-10101000-134B183250FF-000
12	NPOC	280-176533-a-5	0L-10900100866-10101000-134B183250FF-000
13	NPOC	280-176533-a-6	0L-10900100866-10101000-134B183250FF-000
14	NPOC	280-176524-d-4	0L-10900100866-10101000-134B183250FF-000
15	NPOC	CCV	0L-10900100866-10101000-134B183250FF-000
16	NPOC	CCB	0L-10900100866-10101000-134B183250FF-000F
17	NPOC	280-176587-b-1	0L-10900100866-10101000-134B183250FF-0010
18	NPOC	280-176587-b-2	0L-10900100866-10101000-134B183250FF-0011
19	NPOC	280-176587-b-3	0L-10900100866-10101000-134B183250FF-0012
20	NPOC	280-176587-b-4	0L-10900100866-10101000-134B183250FF-0013
21	NPOC	MS 280-176587-b-4	0L-10900100866-10101000-134B183250FF-0014
22	NPOC	MSD 280-176587-b-4	0L-10900100866-10101000-134B183250FF-0015
23	NPOC	280-176587-a-5	0L-10900100866-10101000-134B183250FF-0016
24	NPOC	280-176591-d-2	0L-10900100866-10101000-134B183250FF-0017
25	NPOC	280-176591-d-4	0L-10900100866-10101000-134B183250FF-0018
26	NPOC	280-176591-d-6	0L-10900100866-10101000-134B183250FF-0019
27	NPOC	CCV	0L-10900100866-10101000-134B183250FF-001
28	NPOC	CCB	0L-10900100866-10101000-134B183250FF-001
29	NPOC	280-176591-d-7	0L-10900100866-10101000-134B183250FF-001
30	NPOC	280-176906-c-1	0L-10900100866-10101000-134B183250FF-001
31	NPOC	280-176906-b-2	0L-10900100866-10101000-134B183250FF-001
32	NPOC	280-176907-c-1	0L-10900100866-10101000-134B183250FF-001F
33	NPOC	280-176907-c-2	0L-10900100866-10101000-134B183250FF-0020
34	NPOC	LCS	0L-10900100866-10101000-134B183250FF-0021
35	NPOC	LCSD	0L-10900100866-10101000-134B183250FF-0022
36	NPOC	MB	0L-10900100866-10101000-134B183250FF-0023
37	NPOC	TIC	0L-10900100866-10101000-134B183250FF-0024
38	NPOC	280-176557-g-3	0L-10900100866-10101000-134B183250FF-0025
39	NPOC	CCV	0L-10900100866-10101000-134B183250FF-0026
40	NPOC	CCB	0L-10900100866-10101000-134B183250FF-0027
41	NPOC	MS 280-176557-g-3	0L-10900100866-10101000-134B183250FF-0028
42	NPOC	MSD 280-176557-g-3	0L-10900100866-10101000-134B183250FF-0029
43	NPOC	280-176557-g-4	0L-10900100866-10101000-134B183250FF-002
44	NPOC	280-176557-g-5	0L-10900100866-10101000-134B183250FF-002
45	NPOC	280-176557-g-6	0L-10900100866-10101000-134B183250FF-002
46	NPOC	280-176557-g-7	0L-10900100866-10101000-134B18325100-0000
47	NPOC	280-176557-g-8	0L-10900100866-10101000-134B18325100-0001
48	NPOC	280-176557-g-9	0L-10900100866-10101000-134B18325100-0002
49	NPOC	280-176557-e-10	0L-10900100866-10101000-134B18325100-0003
50	NPOC	280-176544-d-1	0L-10900100866-10101000-134B18325100-0004
51	NPOC	CCV	0L-10900100866-10101000-134B18325100-0005
52	NPOC	CCB	0L-10900100866-10101000-134B18325100-0006
53	NPOC	280-176544-d-2	0L-10900100866-10101000-134B18325100-0007

	Origin	Manual Dilution	Result
1	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:20.24mg/L
2	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.03102mg/L
3	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:24.38mg/L
4	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.2473mg/L
5	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.7005mg/L
6	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:4.311mg/L
7	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:28.61mg/L
8	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:28.39mg/L
9	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:1.026mg/L
10	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:1.209mg/L
11	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.9139mg/L
12	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:1.411mg/L
13	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:2.059mg/L
14	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:2.604mg/L
15	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:24.73mg/L
16	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.07214mg/L
17	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:73.25mg/L
18	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:4.885mg/L
19	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:14.50mg/L
20	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:7.288mg/L
21	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:31.88mg/L
22	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:31.63mg/L
23	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:10.27mg/L
24	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:2.010mg/L
25	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.8525mg/L
26	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:1.423mg/L
27	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:24.91mg/L
28	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.08668mg/L
29	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.3636mg/L
30	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:15.30mg/L
31	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5.000	NPOC:51.00mg/L
32	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:14.98mg/L
33	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:10.94mg/L
34	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:24.85mg/L
35	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:24.89mg/L
36	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.1016mg/L
37	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.06412mg/L
38	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.7422mg/L
39	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:24.63mg/L
40	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.08635mg/L
41	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:25.50mg/L
42	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:25.20mg/L
43	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.6746mg/L
44	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:2.449mg/L
45	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.6492mg/L
46	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:1.190mg/L
47	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:1.223mg/L
48	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.7042mg/L
49	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	2.000	NPOC:1.892mg/L
50	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:31.17mg/L
51	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:24.44mg/L
52	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.2081mg/L
53	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:31.06mg/L

	Notes	Status	Date / Time	Vial
1		Completed	5/31/2023 5:27:03 PM	1
2		Completed	5/31/2023 5:41:09 PM	2
3		Completed	5/31/2023 6:00:41 PM	3
4		Completed	5/31/2023 6:15:56 PM	4
5		Completed	5/31/2023 6:31:09 PM	5
6		Completed	5/31/2023 6:49:31 PM	6
7		Completed	5/31/2023 7:09:15 PM	7
8		Completed	5/31/2023 7:29:24 PM	8
9		Completed	5/31/2023 7:46:08 PM	9
10		Completed	5/31/2023 8:03:00 PM	10
11		Completed	5/31/2023 8:19:32 PM	11
12		Completed	5/31/2023 8:36:38 PM	12
13		Completed	5/31/2023 8:54:23 PM	13
14		Completed	5/31/2023 9:12:10 PM	14
15		Completed	5/31/2023 9:31:56 PM	15
16		Completed	5/31/2023 9:46:18 PM	16
17		Completed	5/31/2023 10:06:04 PM	17
18		Completed	5/31/2023 10:24:23 PM	18
19		Completed	5/31/2023 10:43:31 PM	19
20		Completed	5/31/2023 11:02:11 PM	20
21		Completed	5/31/2023 11:22:20 PM	21
22		Completed	5/31/2023 11:42:09 PM	22
23		Completed	6/1/2023 12:01:16 AM	23
24		Completed	6/1/2023 12:18:36 AM	24
25		Completed	6/1/2023 12:35:19 AM	25
26		Completed	6/1/2023 12:52:32 AM	26
27		Completed	6/1/2023 1:12:20 AM	27
28		Completed	6/1/2023 1:26:51 AM	28
29		Completed	6/1/2023 1:42:25 AM	29
30		Completed	6/1/2023 2:01:38 AM	30
31		Completed	6/1/2023 2:20:13 AM	31
32		Completed	6/1/2023 2:39:25 AM	32
33		Completed	6/1/2023 2:58:33 AM	33
34		Completed	6/1/2023 3:18:17 AM	34
35		Completed	6/1/2023 3:37:35 AM	35
36		Completed	6/1/2023 3:52:09 AM	36
37		Completed	6/1/2023 4:06:24 AM	37
38		Completed	6/1/2023 4:23:10 AM	38
39		Completed	6/1/2023 4:43:18 AM	39
40		Completed	6/1/2023 4:57:34 AM	40
41		Completed	6/1/2023 5:17:11 AM	41
42		Completed	6/1/2023 5:36:32 AM	42
43		Completed	6/1/2023 5:53:06 AM	43
44		Completed	6/1/2023 6:10:52 AM	44
45		Completed	6/1/2023 6:27:29 AM	45
46		Completed	6/1/2023 6:44:42 AM	46
47		Completed	6/1/2023 7:01:44 AM	47
48		Completed	6/1/2023 7:18:22 AM	48
49		Completed	6/1/2023 7:35:21 AM	49
50		Completed	6/1/2023 7:55:33 AM	50
51		Completed	6/1/2023 8:14:51 AM	51
52		Completed	6/1/2023 8:30:12 AM	52
53		Completed	6/1/2023 8:50:55 AM	53

	Analysis	Sample Name	ObjectID
54	NPOC	280-176759-c-11	0L-10900100866-10101000-134B18325100-0008
55	NPOC	MS 280-176759-c-11	0L-10900100866-10101000-134B18325100-0009
56	NPOC	MSD 280-176759-c-11	0L-10900100866-10101000-134B18325100-000A
57	NPOC	280-176544-d-3	0L-10900100866-10101000-134B18325100-000B
58	NPOC	280-176544-d-4	0L-10900100866-10101000-134B18325100-000C
59	NPOC	280-176606-e-1	0L-10900100866-10101000-134B18325100-000D
60	NPOC	280-176606-e-2	0L-10900100866-10101000-134B18325100-000E
61	NPOC	280-176606-e-3	0L-10900100866-10101000-134B18325100-000F
62	NPOC	280-176606-e-4	0L-10900100866-10101000-134B18325100-0010
63	NPOC	CCV	0L-10900100866-10101000-134B18325100-0011
64	NPOC	CCB	0L-10900100866-10101000-134B18325100-0012
65	NPOC	280-176606-e-5	0L-10900100866-10101000-134B18325100-0013
66	NPOC	280-176606-e-6	0L-10900100866-10101000-134B18325100-0014
67	NPOC	280-176606-e-7	0L-10900100866-10101000-134B18325100-0015
68	NPOC	LCS	0L-10900100866-10101000-134B18325100-0016
69	NPOC	MB	0L-10900100866-10101000-134B18325100-0017
70	NPOC	280-176606-e-8	0L-10900100866-10101000-134B18325100-0018
71	NPOC	MS 280-176606-e-8	0L-10900100866-10101000-134B18325100-0019
72	NPOC	MSD 280-176606-e-8	0L-10900100866-10101000-134B18325100-001A
73	NPOC	570-139235-d-1	0L-10900100866-10101000-134B18325100-001B
74	NPOC	570-139235-d-2	0L-10900100866-10101000-134B18325100-001C
75	NPOC	CCV	0L-10900100866-10101000-134B18325100-001D
76	NPOC	CCB	0L-10900100866-10101000-134B18325100-001E
77	NPOC	570-139235-d-3	0L-10900100866-10101000-134B18325100-001F
78	NPOC	570-138821-e-6	0L-10900100866-10101000-134B18325100-0020
79	NPOC	570-138821-e-1	0L-10900100866-10101000-134B18325100-0021
80	NPOC	570-138821-e-2	0L-10900100866-10101000-134B18325100-0022
81	NPOC	570-138821-e-3	0L-10900100866-10101000-134B18325100-0023
82	NPOC	570-138821-e-4	0L-10900100866-10101000-134B18325100-0024
83	NPOC	570-138821-e-5	0L-10900100866-10101000-134B18325100-0025
84	NPOC	280-176537-b-1	0L-10900100866-10101000-134B18325100-0026
85	NPOC	MS 280-176537-b-1	0L-10900100866-10101000-134B18325100-0027
86	NPOC	MSD 280-176537-b-1	0L-10900100866-10101000-134B18325100-0028
87	NPOC	CCV	0L-10900100866-10101000-134B18325100-0029
88	NPOC	CCB	0L-10900100866-10101000-134B18325100-002A
89	NPOC	570-138821-e-7	0L-10900100866-10101000-134B18325100-002B
90	NPOC	570-138821-e-8	0L-10900100866-10101000-134B18325100-002C
91	NPOC	570-138821-e-9	0L-10900100866-10101000-134B18325100-002D
92	NPOC	CCV	0L-10900100866-10101000-134B18325100-002E
93	NPOC	CCB	0L-10900100866-10101000-134B18325100-002F

	Origin	Manual Dilution	Result
54	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.6426mg/L
55	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:25.57mg/L
56	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:25.59mg/L
57	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:21.89mg/L
58	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:1.332mg/L
59	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:1.832mg/L
60	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:1.793mg/L
61	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:1.741mg/L
62	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:3.158mg/L
63	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:24.62mg/L
64	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.06139mg/L
65	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:6.939mg/L
66	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:9.430mg/L
67	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.8933mg/L
68	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:24.77mg/L
69	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.1458mg/L
70	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:3.939mg/L
71	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:29.09mg/L
72	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:28.84mg/L
73	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.2708mg/L
74	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:1.034mg/L
75	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:24.74mg/L
76	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.1335mg/L
77	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.3154mg/L
78	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.2918mg/L
79	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:1.426mg/L
80	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:2.235mg/L
81	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:1.346mg/L
82	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.8865mg/L
83	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.3786mg/L
84	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.2377mg/L
85	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:25.46mg/L
86	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:25.10mg/L
87	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:24.75mg/L
88	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.08710mg/L
89	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:2.226mg/L
90	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.4726mg/L
91	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:1.202mg/L
92	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:24.69mg/L
93	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	1.000	NPOC:0.1248mg/L

	Notes	Status	Date / Time	Vial
54		Completed	6/1/2023 9:07:42 AM	54
55		Completed	6/1/2023 9:27:19 AM	55
56		Completed	6/1/2023 9:47:07 AM	56
57		Completed	6/1/2023 10:07:26 AM	57
58		Completed	6/1/2023 10:24:37 AM	58
59		Completed	6/1/2023 10:42:14 AM	59
60		Completed	6/1/2023 10:59:46 AM	60
61		Completed	6/1/2023 11:17:00 AM	61
62		Completed	6/1/2023 11:35:13 AM	62
63		Completed	6/1/2023 11:54:53 AM	63
64		Completed	6/1/2023 12:09:11 PM	64
65		Completed	6/1/2023 12:28:11 PM	65
66		Completed	6/1/2023 12:47:09 PM	66
67		Completed	6/1/2023 1:04:05 PM	67
68		Completed	6/1/2023 1:23:45 PM	68
69		Completed	6/1/2023 1:38:17 PM	69
70		Completed	6/1/2023 1:56:31 PM	70
71		Completed	6/1/2023 2:16:10 PM	71
72		Completed	6/1/2023 2:35:40 PM	72
73		Completed	6/1/2023 2:50:52 PM	73
74		Completed	6/1/2023 3:07:59 PM	74
75		Completed	6/1/2023 3:27:41 PM	75
76		Completed	6/1/2023 3:42:18 PM	76
77		Completed	6/1/2023 3:57:57 PM	77
78		Completed	6/1/2023 4:13:00 PM	78
79		Completed	6/1/2023 4:30:12 PM	79
80		Completed	6/1/2023 4:47:43 PM	80
81		Completed	6/1/2023 5:04:41 PM	81
82		Completed	6/1/2023 5:21:11 PM	82
83		Completed	6/1/2023 5:36:46 PM	83
84		Completed	6/1/2023 5:51:32 PM	84
85		Completed	6/1/2023 6:11:06 PM	85
86		Completed	6/1/2023 6:30:13 PM	86
87		Completed	6/1/2023 6:50:08 PM	87
88		Completed	6/1/2023 7:04:29 PM	88
89		Completed	6/1/2023 7:22:19 PM	89
90		Completed	6/1/2023 7:38:20 PM	90
91		Completed	6/1/2023 7:55:14 PM	91
92		Completed	6/1/2023 8:15:07 PM	92
93		Completed	6/1/2023 8:29:44 PM	93

TOC-L Cal Curve Information
C:\TOC-L\CalCurves\NPOC Calibration 10 31 2022.2023 03 20 14 43 51.cal

Date of Creation	3/20/2023 4:26:03 PM
User	abw
System	TOC-LCSN

Cal. Curve

Sample Name:	NPOC Calibration_AutoDilution_Calibration_03_20_2023
Sample ID:	Auto Dilution Calibration 03 20 2023
Object ID	0L-10900100866-10101000-134B0B02249E-0000
Cal. Curve:	NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status	Completed
Comment:	

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.1980	50uL	1.000	*******		3/20/2023 2:51:43 PM
2	0.2915	50uL	1.000	*******		3/20/2023 2:54:03 PM
3	0.3385	50uL	1.000	*******		3/20/2023 2:56:12 PM
4	0.000	50uL	1.000	*******		3/20/2023 2:58:17 PM

Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	90.00sec
Mean Area	0.2070
SD Area	0.1498
CV Area	72.39%
Vial	88
No Washes	2

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	2.039	50uL	50.00	*******		3/20/2023 3:07:14 PM
2	2.505	50uL	50.00	*******		3/20/2023 3:09:43 PM
3	2.186	50uL	50.00	*******		3/20/2023 3:12:14 PM
4	2.514	50uL	50.00	*******		3/20/2023 3:14:59 PM

Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	90.00sec
Mean Area	2.311
SD Area	0.2370
CV Area	10.25%
Vial	89
No Washes	2

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	12.32	50uL	10.00	*******		3/20/2023 3:23:17 PM
2	13.04	50uL	10.00	*******		3/20/2023 3:26:06 PM
3	12.48	50uL	10.00	*******		3/20/2023 3:28:50 PM
4	12.86	50uL	10.00	*******		3/20/2023 3:31:49 PM

Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	90.00sec
Mean Area	12.68
SD Area	0.3324
CV Area	2.62%
Vial	89
No Washes	2

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	24.07	50uL	5.000	*******		3/20/2023 3:40:19 PM
2	25.15	50uL	5.000	*******		3/20/2023 3:43:35 PM
3	24.82	50uL	5.000	*******		3/20/2023 3:46:37 PM
4	25.03	50uL	5.000	*******		3/20/2023 3:49:45 PM

Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	90.00sec
Mean Area	24.77
SD Area	0.4846
CV Area	1.96%
Vial	89
No Washes	2

Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	61.40	50uL	2.000	*******		3/20/2023 3:58:15 PM
2	61.02	50uL	2.000	*******		3/20/2023 4:01:24 PM
3	62.07	50uL	2.000	*******		3/20/2023 4:04:31 PM
4	62.38	50uL	2.000	*******		3/20/2023 4:07:56 PM

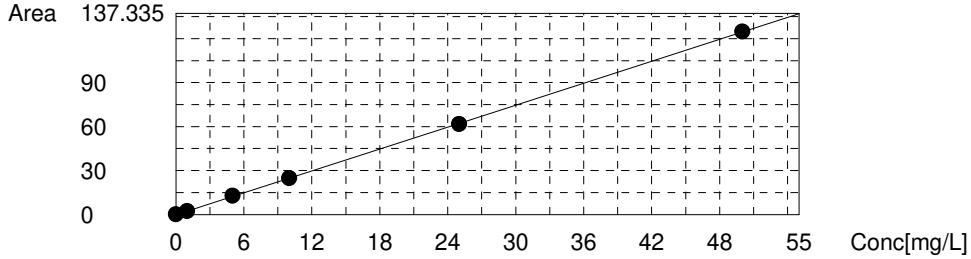
Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	90.00sec
Mean Area	61.72
SD Area	0.6193
CV Area	1.00%
Vial	89
No Washes	2

Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	123.1	50uL	1.000	*******		3/20/2023 4:15:57 PM
2	124.0	50uL	1.000	*******		3/20/2023 4:19:27 PM
3	124.6	50uL	1.000	*******		3/20/2023 4:22:39 PM
4	127.7	50uL	1.000	*******		3/20/2023 4:26:03 PM

Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	90.00sec
Mean Area	124.9
SD Area	1.997
CV Area	1.60%
Vial	89
No Washes	2

Slope:	2.493
Intercept	-0.04883
r^2	1.0000
r	1.0000
RSE(%)	N/A
Zero Shift	No



Instr.Information

Instrument Options TOC/ASI/
Catalyst Regular Sensitivity

Sample

Sample Name: ICV
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

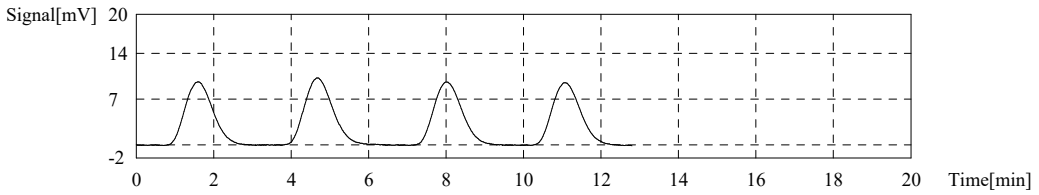
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.24mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	49.02	19.69mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 5:16:47 PM
2	53.04	21.30mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 5:20:18 PM
3	49.67	19.95mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 5:23:32 PM
4	49.83	20.01mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 5:27:03 PM

Mean Area 50.39
Mean Conc. 20.24mg/L



Sample

Sample Name: ICB
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

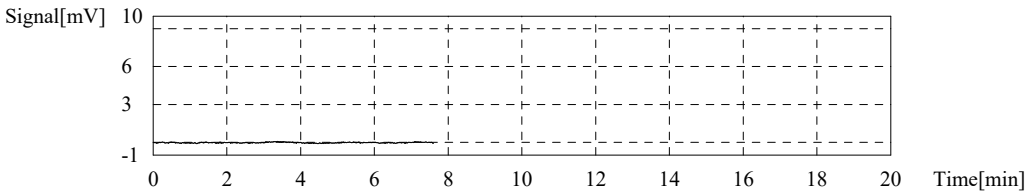
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.03102mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.07740	0.05064mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 5:34:54 PM
2	0.000	0.01959mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 5:36:58 PM
3	0.03650	0.03423mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 5:39:04 PM
4	0.000	0.01959mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 5:41:09 PM

Mean Area 0.02848
Mean Conc. 0.03102mg/L



Sample

Sample Name: LCS
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

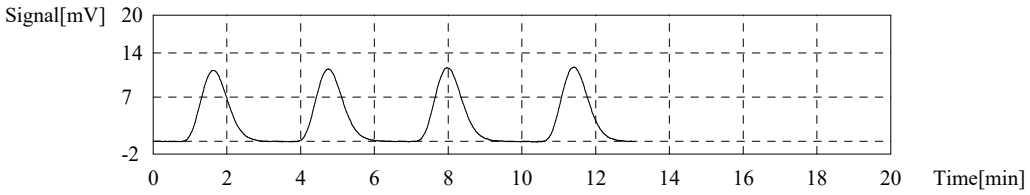
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.38mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	58.83	23.62mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 5:50:12 PM
2	60.32	24.22mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 5:53:37 PM
3	61.98	24.89mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 5:57:13 PM
4	61.79	24.81mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 6:00:41 PM

Mean Area 60.73
Mean Conc. 24.38mg/L



Sample

Sample Name: MB
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

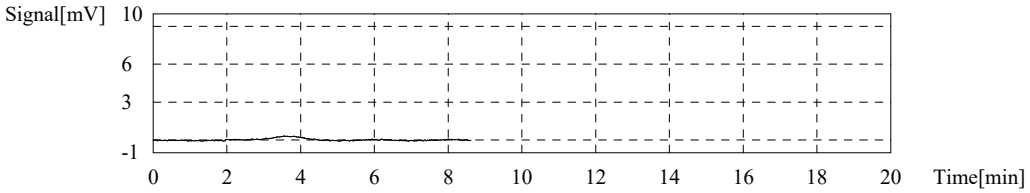
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2473mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.1019	0.06047mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 6:08:34 PM
2	1.506	0.6238mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 6:11:27 PM
3	0.2754	0.1301mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 6:13:35 PM
4	0.3869	0.1748mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 6:15:56 PM

Mean Area 0.5676
Mean Conc. 0.2473mg/L



Sample

Sample Name: TIC
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

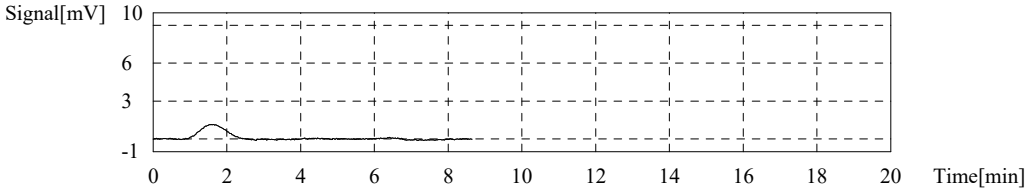
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7005mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.330	2.559mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 6:24:40 PM
2	0.4591	0.2038mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 6:26:59 PM
3	0.000	0.01959mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 6:29:04 PM
4	0.000	0.01959mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 6:31:09 PM

Mean Area 1.697
Mean Conc. 0.7005mg/L



Sample

Sample Name: 280-176533-a-1
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

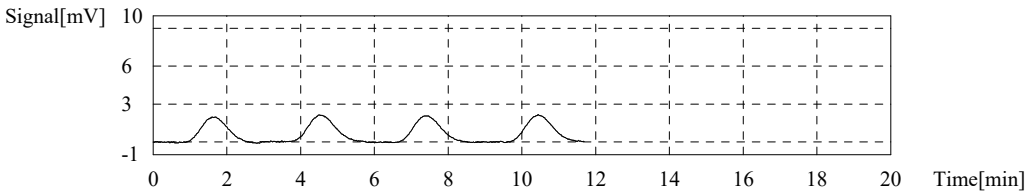
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.311mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.20	4.112mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 6:39:59 PM
2	10.78	4.344mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 6:43:06 PM
3	10.93	4.405mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 6:46:22 PM
4	10.88	4.385mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 6:49:31 PM

Mean Area 10.70
Mean Conc. 4.311mg/L



Sample

Sample Name: MS 280-176533-a-1
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

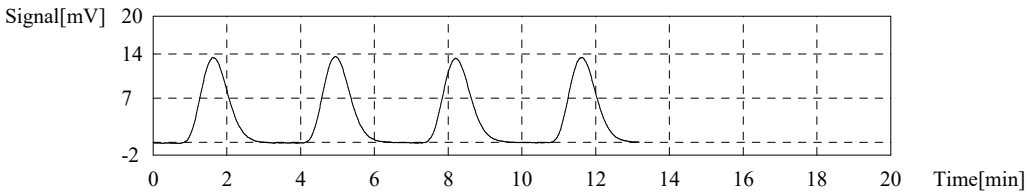
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.61mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	72.15	28.97mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 6:58:45 PM
2	71.59	28.74mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 7:02:15 PM
3	70.90	28.46mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 7:05:51 PM
4	70.40	28.26mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 7:09:15 PM

Mean Area 71.26
Mean Conc. 28.61mg/L



Sample

Sample Name: MSD 280-176533-a-1
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

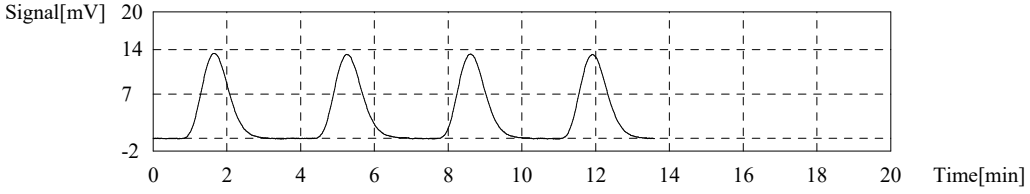
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.39mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	71.22	28.59mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 7:18:47 PM
2	70.59	28.34mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 7:22:22 PM
3	70.30	28.22mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 7:25:53 PM
4	70.75	28.40mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 7:29:24 PM

Mean Area 70.72
Mean Conc. 28.39mg/L



Sample

Sample Name: 280-176533-a-2
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

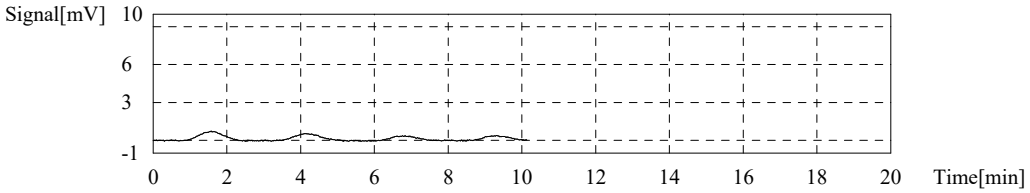
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.026mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.620	1.472mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 7:37:54 PM
2	2.916	1.189mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 7:40:47 PM
3	1.771	0.7301mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 7:43:29 PM
4	1.732	0.7145mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 7:46:08 PM

Mean Area 2.510
Mean Conc. 1.026mg/L



Sample

Sample Name: 280-176533-a-3
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

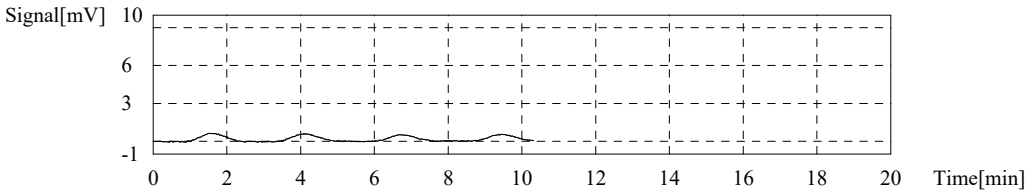
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.209mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.482	1.417mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 7:54:33 PM
2	3.168	1.291mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 7:57:25 PM
3	2.770	1.131mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 8:00:18 PM
4	2.440	0.9985mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 8:03:00 PM

Mean Area 2.965
Mean Conc. 1.209mg/L



Sample

Sample Name: 280-176533-a-4
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

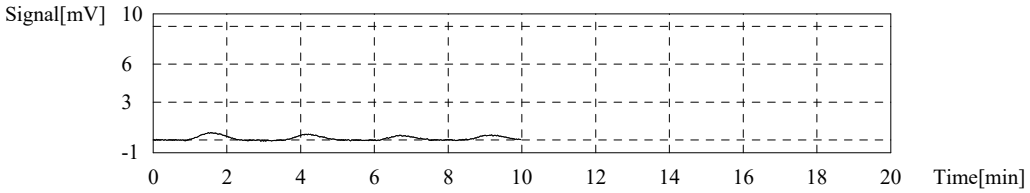
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.9139mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.220	1.311mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 8:11:32 PM
2	2.237	0.9171mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 8:14:21 PM
3	1.744	0.7193mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 8:16:56 PM
4	1.715	0.7076mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 8:19:32 PM

Mean Area 2.229
Mean Conc. 0.9139mg/L



Sample

Sample Name: 280-176533-a-5
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

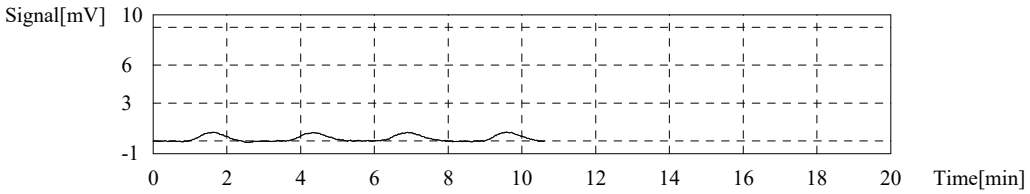
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.411mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.682	1.497mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 8:28:10 PM
2	3.307	1.346mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 8:30:55 PM
3	3.363	1.369mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 8:33:49 PM
4	3.523	1.433mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 8:36:38 PM

Mean Area 3.469
Mean Conc. 1.411mg/L



Sample

Sample Name: 280-176533-a-6
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

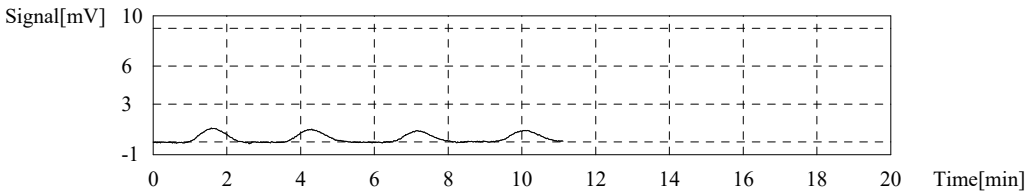
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.059mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.819	2.354mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 8:45:18 PM
2	5.188	2.101mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 8:48:25 PM
3	4.779	1.937mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 8:51:31 PM
4	4.548	1.844mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 8:54:23 PM

Mean Area 5.084
Mean Conc. 2.059mg/L



Sample

Sample Name: 280-176524-d-4
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

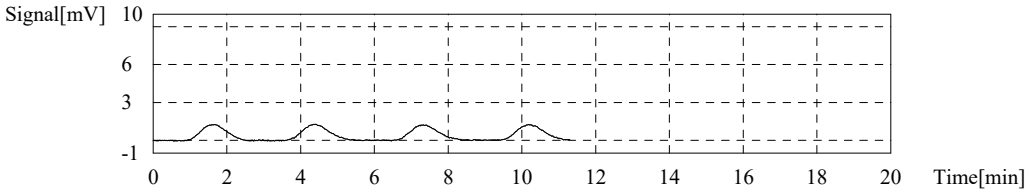
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.604mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.377	2.578mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 9:03:03 PM
2	7.054	2.850mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 9:06:12 PM
3	6.232	2.520mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 9:09:14 PM
4	6.108	2.470mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 9:12:10 PM

Mean Area 6.443
Mean Conc. 2.604mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

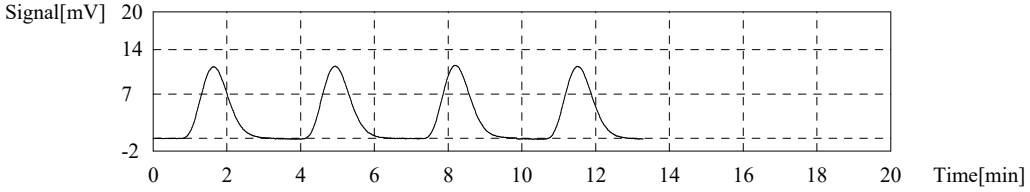
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.73mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	60.53	24.30mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 9:21:23 PM
2	61.64	24.75mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 9:24:50 PM
3	61.88	24.85mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 9:28:19 PM
4	62.30	25.01mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 9:31:56 PM

Mean Area 61.59
Mean Conc. 24.73mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

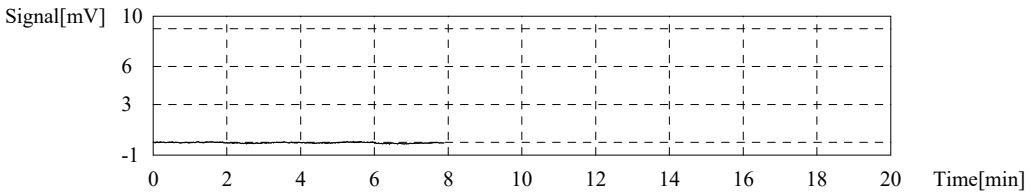
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.07214mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2282	0.1111mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 9:39:51 PM
2	0.000	0.01959mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 9:41:56 PM
3	0.2957	0.1382mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 9:44:13 PM
4	0.000	0.01959mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 9:46:18 PM

Mean Area 0.1310
Mean Conc. 0.07214mg/L



Sample

Sample Name: 280-176587-b-1
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

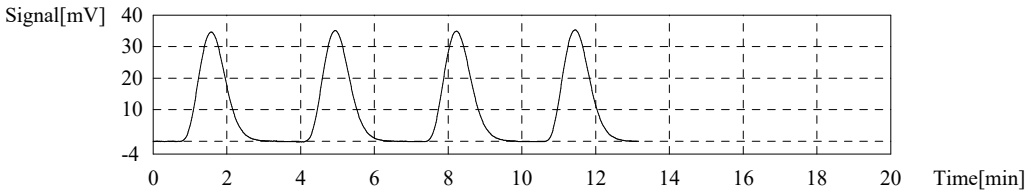
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:73.25mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	179.5	72.03mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 9:55:35 PM
2	183.0	73.44mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 9:59:06 PM
3	183.2	73.52mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 10:02:31 PM
4	184.4	74.00mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 10:06:04 PM

Mean Area 182.5
Mean Conc. 73.25mg/L



Sample

Sample Name: 280-176587-b-2
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

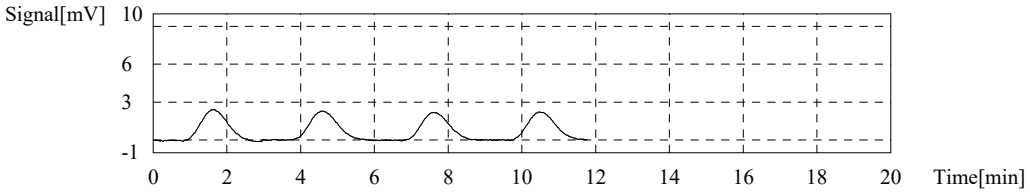
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.885mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.73	5.127mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 10:14:57 PM
2	12.25	4.934mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 10:18:13 PM
3	11.71	4.718mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 10:21:18 PM
4	11.82	4.762mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 10:24:23 PM

Mean Area 12.13
Mean Conc. 4.885mg/L



Sample

Sample Name: 280-176587-b-3
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

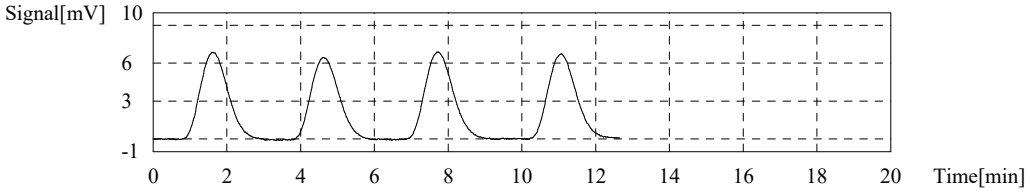
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:14.50mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	36.28	14.58mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 10:33:18 PM
2	34.69	13.94mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 10:36:35 PM
3	37.63	15.12mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 10:40:05 PM
4	35.74	14.36mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 10:43:31 PM

Mean Area 36.09
Mean Conc. 14.50mg/L



Sample

Sample Name: 280-176587-b-4
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

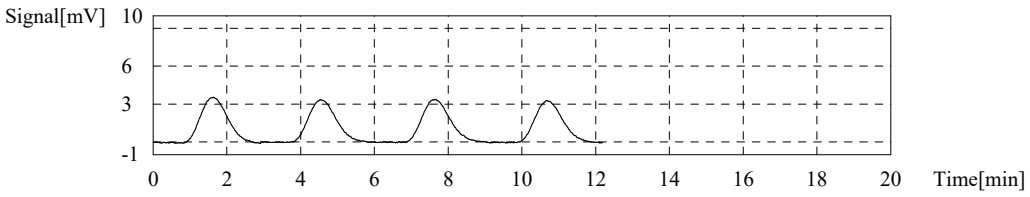
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.288mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.90	7.602mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 10:52:22 PM
2	17.73	7.133mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 10:55:38 PM
3	18.16	7.305mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 10:58:52 PM
4	17.68	7.113mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 11:02:11 PM

Mean Area 18.12
Mean Conc. 7.288mg/L



Sample

Sample Name: MS 280-176587-b-4
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

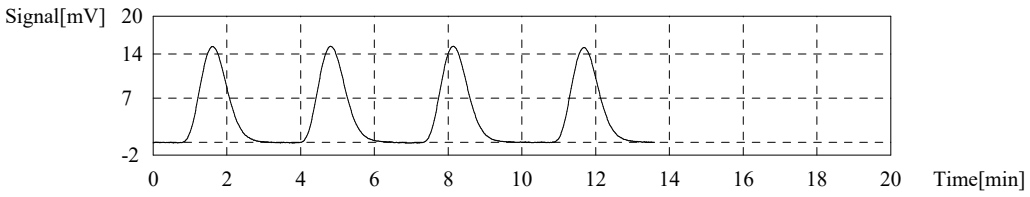
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:31.88mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	79.35	31.85mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 11:11:19 PM
2	79.67	31.98mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 11:14:53 PM
3	79.67	31.98mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 11:18:37 PM
4	78.98	31.71mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 11:22:20 PM

Mean Area 79.42
Mean Conc. 31.88mg/L



Sample

Sample Name: MSD 280-176587-b-4
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

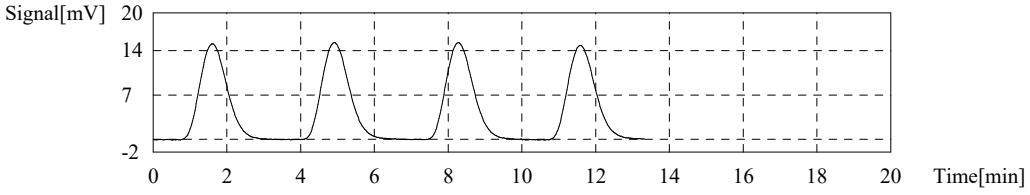
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:31.63mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	78.61	31.56mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 11:31:34 PM
2	79.53	31.93mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 11:35:07 PM
3	79.20	31.79mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 11:38:37 PM
4	77.84	31.25mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 11:42:09 PM

Mean Area 78.79
Mean Conc. 31.63mg/L



Sample

Sample Name: 280-176587-a-5
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

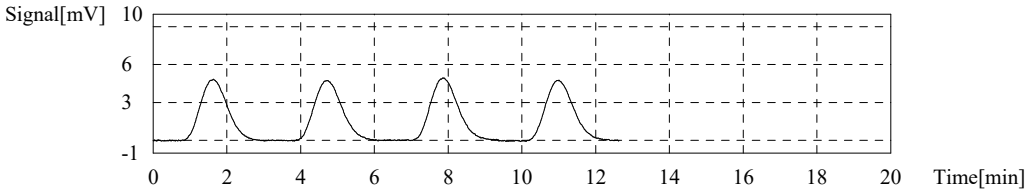
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.27mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	25.31	10.17mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 11:51:09 PM
2	25.30	10.17mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 11:54:31 PM
3	25.73	10.34mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	5/31/2023 11:57:48 PM
4	25.86	10.39mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:01:16 AM

Mean Area 25.55
Mean Conc. 10.27mg/L



Sample

Sample Name: 280-176591-d-2
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

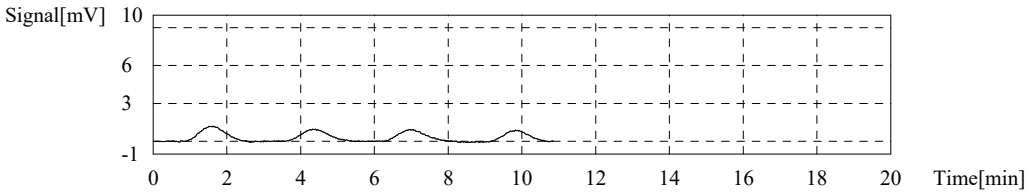
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.010mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.041	2.443mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:09:57 AM
2	4.755	1.927mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:12:45 AM
3	4.721	1.914mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:15:47 AM
4	4.331	1.757mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:18:36 AM

Mean Area 4.962
Mean Conc. 2.010mg/L



Sample

Sample Name: 280-176591-d-4
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

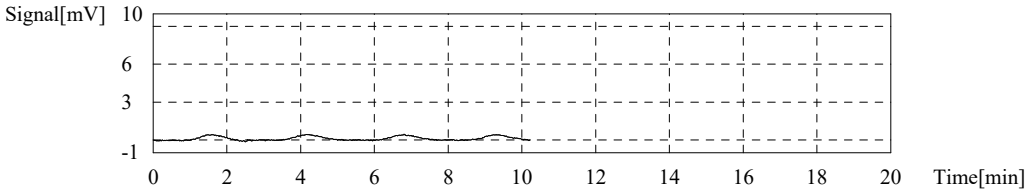
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8525mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.400	0.9825mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:27:05 AM
2	2.061	0.8465mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:29:53 AM
3	1.889	0.7775mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:32:35 AM
4	1.954	0.8035mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:35:19 AM

Mean Area 2.076
Mean Conc. 0.8525mg/L



Sample

Sample Name: 280-176591-d-6
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

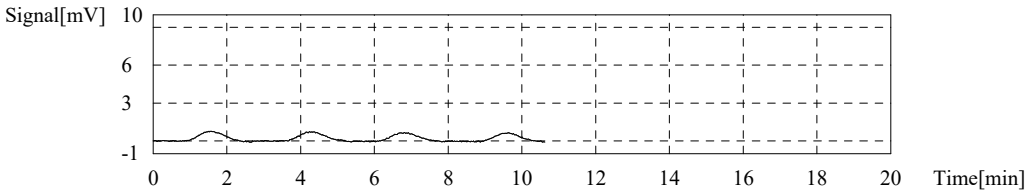
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.423mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.839	1.560mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:43:56 AM
2	3.062	1.248mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:46:42 AM
3	3.709	1.508mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:49:43 AM
4	3.385	1.378mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:52:32 AM

Mean Area 3.499
Mean Conc. 1.423mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

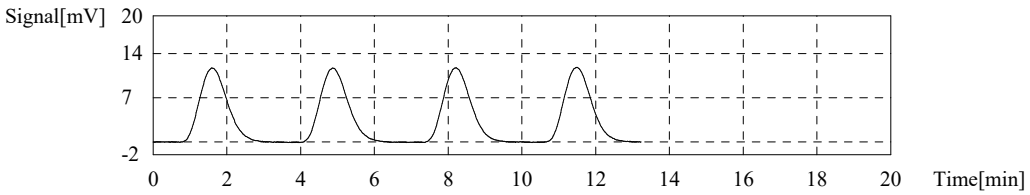
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.91mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	62.05	24.91mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:01:43 AM
2	62.62	25.14mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:05:14 AM
3	61.57	24.72mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:08:45 AM
4	61.92	24.86mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:12:20 AM

Mean Area 62.04
Mean Conc. 24.91mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

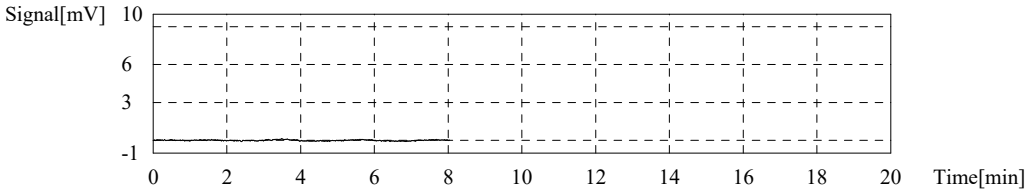
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.08668mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.000	0.01959mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:20:10 AM
2	0.09710	0.05855mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:22:28 AM
3	0.3114	0.1445mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:24:40 AM
4	0.2604	0.1241mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:26:51 AM

Mean Area 0.1672
Mean Conc. 0.08668mg/L



Sample

Sample Name: 280-176591-d-7
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

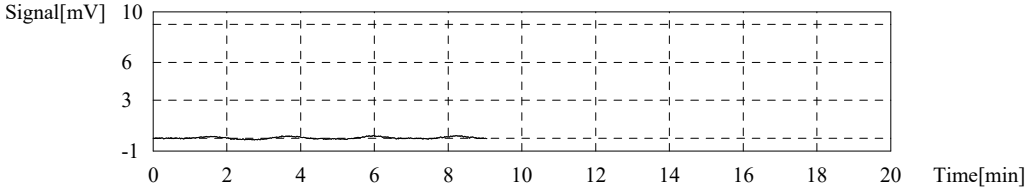
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3636mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4354	0.1943mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:34:50 AM
2	1.031	0.4332mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:37:22 AM
3	1.024	0.4304mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:39:48 AM
4	0.9398	0.3966mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:42:25 AM

Mean Area 0.8576
Mean Conc. 0.3636mg/L



Sample

Sample Name: 280-176906-c-1
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

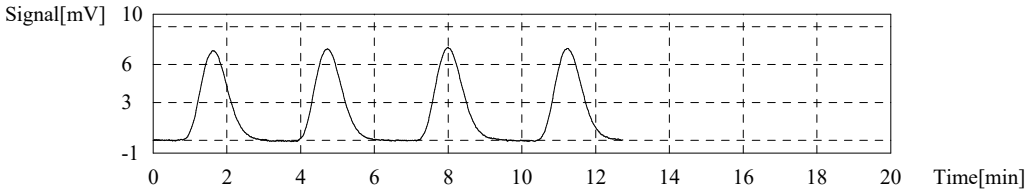
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:15.30mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.24	14.96mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:51:26 AM
2	38.43	15.44mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:54:53 AM
3	38.31	15.39mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:58:18 AM
4	38.39	15.42mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:01:38 AM

Mean Area 38.09
Mean Conc. 15.30mg/L



Sample

Sample Name: 280-176906-b-2
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

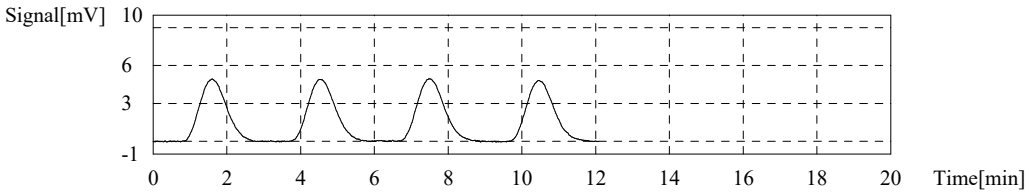
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	5.000	NPOC:51.00mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	25.44	51.13mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:10:30 AM
2	25.39	51.03mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:13:38 AM
3	25.42	51.09mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:16:47 AM
4	25.26	50.77mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:20:13 AM

Mean Area 25.38
Mean Conc. 51.00mg/L



Sample

Sample Name: 280-176907-c-1
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

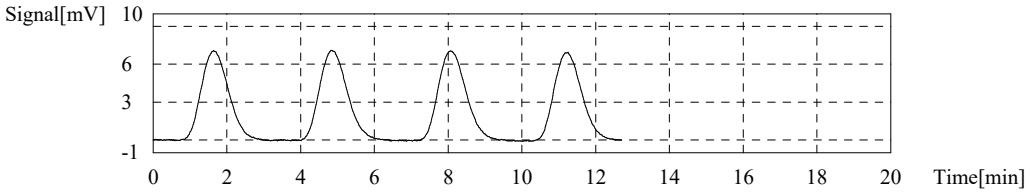
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:14.98mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.17	14.93mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:29:22 AM
2	37.62	15.11mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:32:45 AM
3	37.50	15.06mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:36:04 AM
4	36.84	14.80mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:39:25 AM

Mean Area 37.28
Mean Conc. 14.98mg/L



Sample

Sample Name: 280-176907-c-2
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

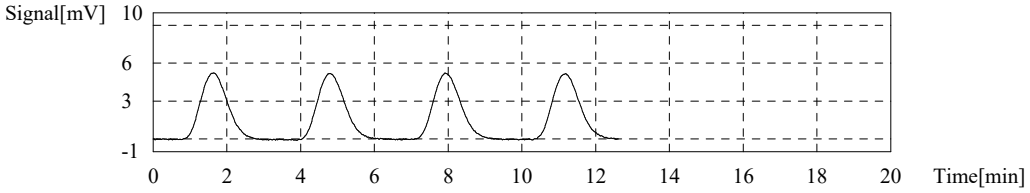
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.94mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	27.24	10.95mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:48:32 AM
2	27.28	10.96mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:51:52 AM
3	27.38	11.00mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:55:16 AM
4	27.02	10.86mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:58:33 AM

Mean Area 27.23
Mean Conc. 10.94mg/L



Sample

Sample Name: LCS
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

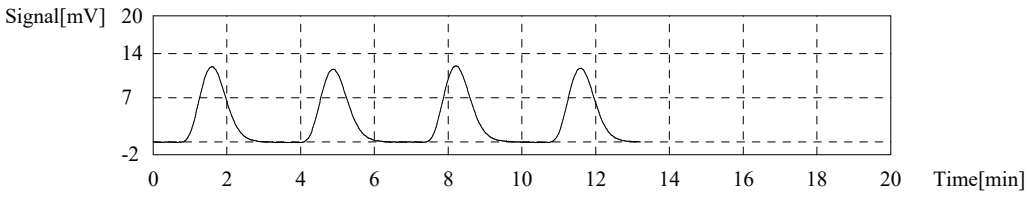
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.85mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	61.97	24.88mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:07:44 AM
2	61.09	24.53mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:11:17 AM
3	63.36	25.44mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:14:49 AM
4	61.18	24.56mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:18:17 AM

Mean Area 61.90
Mean Conc. 24.85mg/L



Sample

Sample Name: LCSD
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

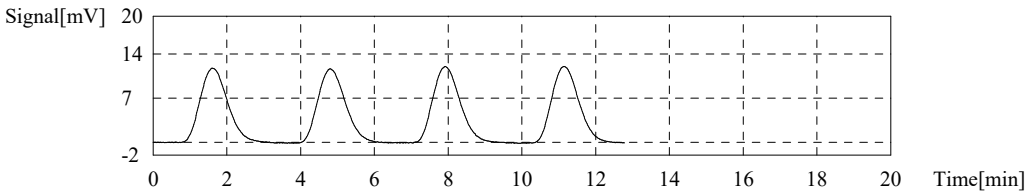
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.89mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	61.71	24.78mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:27:25 AM
2	61.27	24.60mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:30:44 AM
3	62.19	24.97mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:34:08 AM
4	62.82	25.22mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:37:35 AM

Mean Area 62.00
Mean Conc. 24.89mg/L



Sample

Sample Name: MB
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

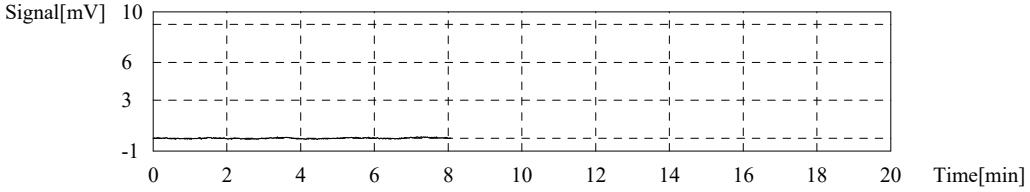
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1016mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.1542	0.08146mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:45:26 AM
2	0.07390	0.04924mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:47:31 AM
3	0.000	0.01959mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:49:36 AM
4	0.5894	0.2561mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:52:09 AM

Mean Area 0.2044
Mean Conc. 0.1016mg/L



Sample

Sample Name: TIC
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

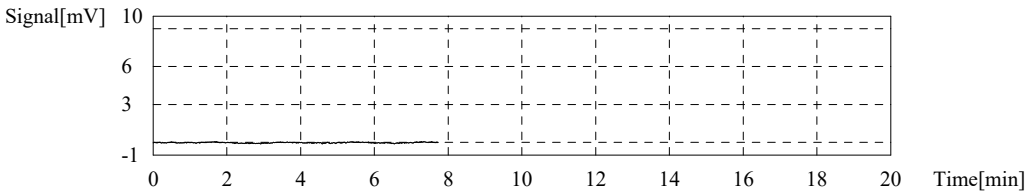
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06412mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.1322	0.07263mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:00:08 AM
2	0.000	0.01959mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:02:13 AM
3	0.06840	0.04703mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:04:18 AM
4	0.2434	0.1172mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:06:24 AM

Mean Area 0.1110
Mean Conc. 0.06412mg/L



Sample

Sample Name: 280-176557-g-3
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

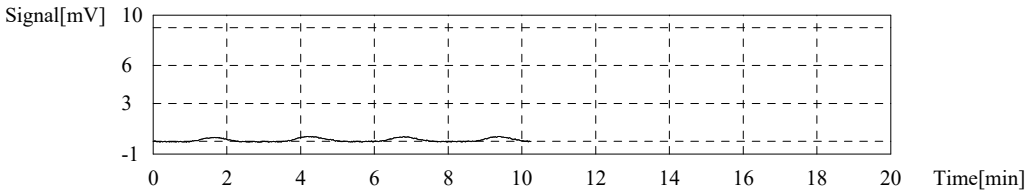
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7422mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.583	0.6547mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:14:57 AM
2	2.063	0.8473mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:17:41 AM
3	1.844	0.7594mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:20:27 AM
4	1.715	0.7076mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:23:10 AM

Mean Area 1.801
Mean Conc. 0.7422mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

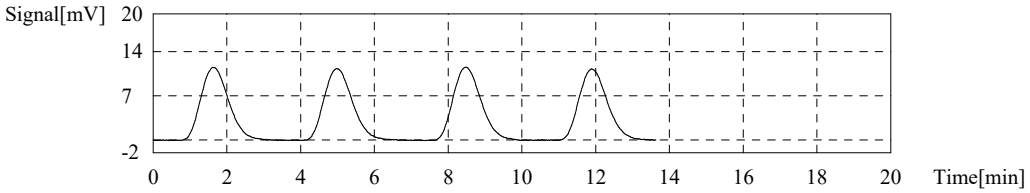
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.63mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	61.28	24.60mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:32:27 AM
2	61.10	24.53mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:36:07 AM
3	61.68	24.77mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:39:42 AM
4	61.26	24.60mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:43:18 AM

Mean Area 61.33
Mean Conc. 24.63mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

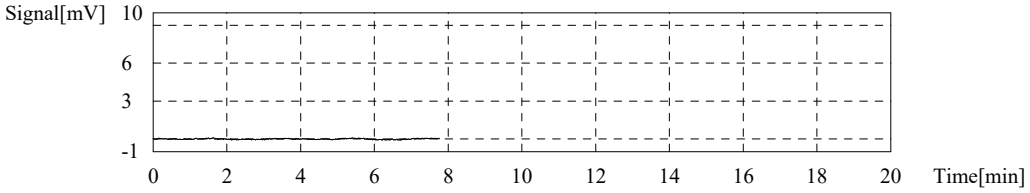
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.08635mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.000	0.01959mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:51:09 AM
2	0.1589	0.08334mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:53:17 AM
3	0.2156	0.1061mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:55:26 AM
4	0.2911	0.1364mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:57:34 AM

Mean Area 0.1664
Mean Conc. 0.08635mg/L



Sample

Sample Name: MS 280-176557-g-3
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

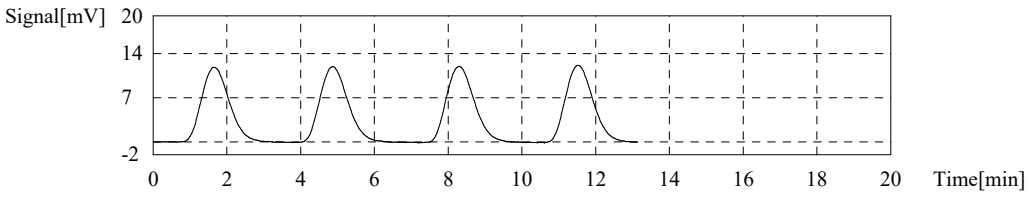
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.50mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	62.15	24.95mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:06:44 AM
2	63.85	25.64mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:10:20 AM
3	63.97	25.68mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:13:45 AM
4	64.06	25.72mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:17:11 AM

Mean Area 63.51
Mean Conc. 25.50mg/L



Sample

Sample Name: MSD 280-176557-g-3
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

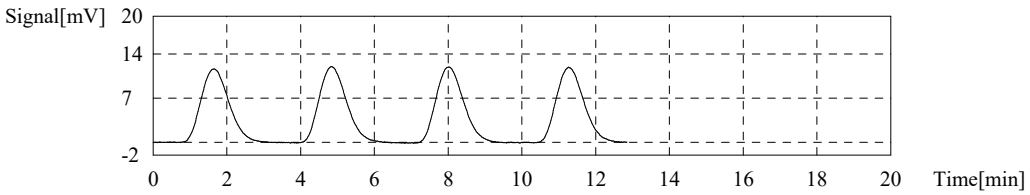
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.20mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	61.98	24.89mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:26:20 AM
2	62.81	25.22mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:29:41 AM
3	63.49	25.49mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:33:08 AM
4	62.80	25.21mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:36:32 AM

Mean Area 62.77
Mean Conc. 25.20mg/L



Sample

Sample Name: 280-176557-g-4
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

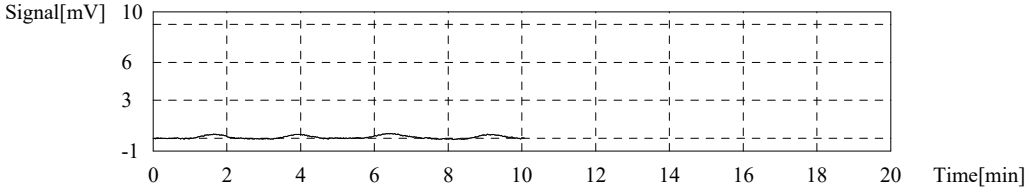
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6746mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.389	0.5769mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:44:47 AM
2	1.674	0.6912mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:47:26 AM
3	1.983	0.8152mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:50:22 AM
4	1.485	0.6154mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:53:06 AM

Mean Area 1.633
Mean Conc. 0.6746mg/L



Sample

Sample Name: 280-176557-g-5
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

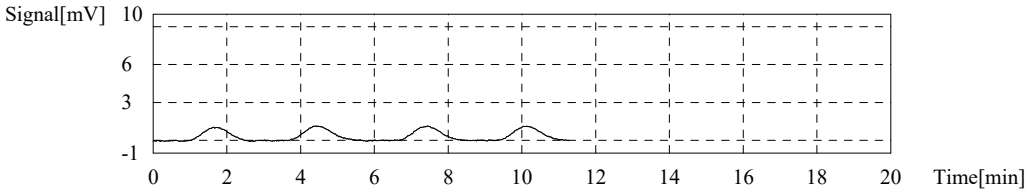
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.449mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.861	2.371mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:01:48 AM
2	6.435	2.601mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:04:57 AM
3	6.089	2.462mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:07:50 AM
4	5.835	2.361mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:10:52 AM

Mean Area 6.055
Mean Conc. 2.449mg/L



Sample

Sample Name: 280-176557-g-6
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

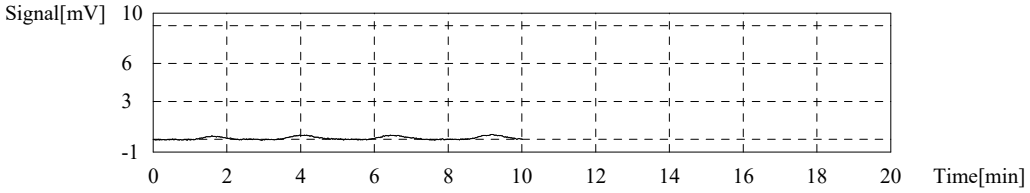
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6492mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.173	0.4902mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:19:13 AM
2	1.499	0.6210mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:21:56 AM
3	1.748	0.7209mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:24:46 AM
4	1.857	0.7646mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:27:29 AM

Mean Area 1.569
Mean Conc. 0.6492mg/L



Sample

Sample Name: 280-176557-g-7
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

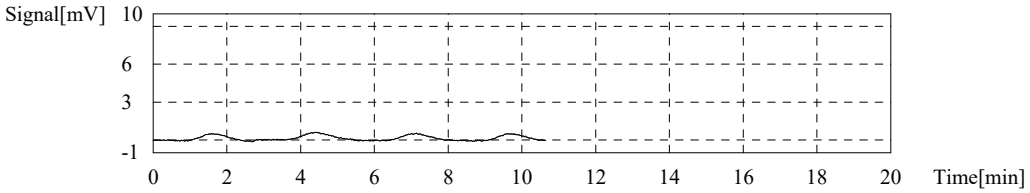
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.190mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.040	1.239mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:36:10 AM
2	3.004	1.225mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:39:08 AM
3	2.781	1.135mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:41:55 AM
4	2.842	1.160mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:44:42 AM

Mean Area 2.917
Mean Conc. 1.190mg/L



Sample

Sample Name: 280-176557-g-8
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

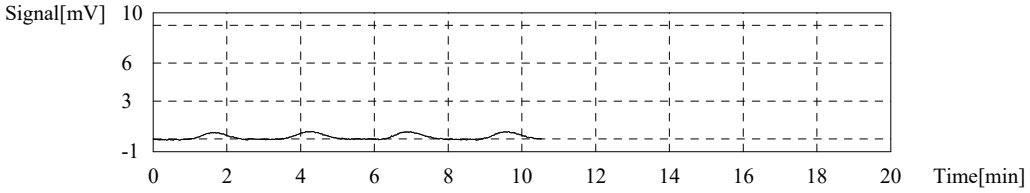
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.223mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.862	1.168mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:53:13 AM
2	3.134	1.277mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:56:05 AM
3	3.028	1.234mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:58:56 AM
4	2.977	1.214mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:01:44 AM

Mean Area 3.000
Mean Conc. 1.223mg/L



Sample

Sample Name: 280-176557-g-9
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

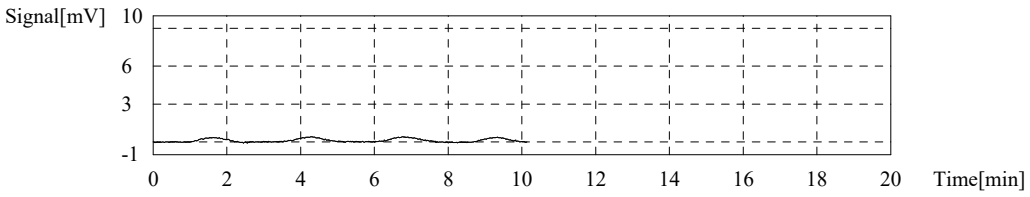
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7042mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.776	0.7321mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:10:17 AM
2	1.453	0.6025mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:13:01 AM
3	1.812	0.7466mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:15:42 AM
4	1.785	0.7357mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:18:22 AM

Mean Area 1.707
Mean Conc. 0.7042mg/L



Sample

Sample Name: 280-176557-e-10
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

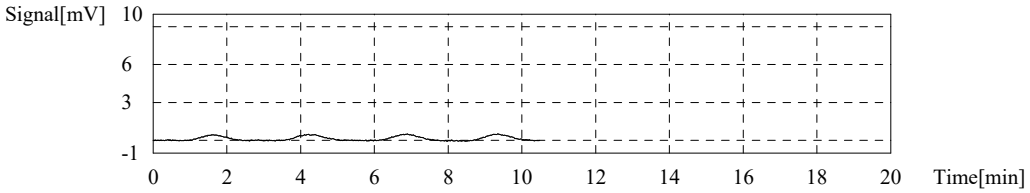
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	2.000	NPOC:1.892mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.084	1.711mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:26:56 AM
2	2.198	1.803mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:29:44 AM
3	2.332	1.910mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:32:23 AM
4	2.624	2.145mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:35:21 AM

Mean Area 2.310
Mean Conc. 1.892mg/L



Sample

Sample Name: 280-176544-d-1
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

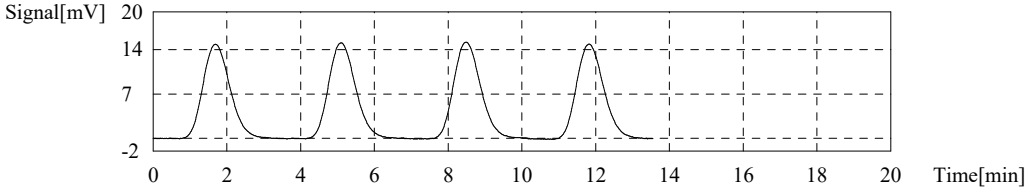
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:31.17mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	76.95	30.89mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:44:48 AM
2	77.15	30.97mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:48:22 AM
3	78.43	31.49mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:51:53 AM
4	78.05	31.33mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:55:33 AM

Mean Area 77.65
Mean Conc. 31.17mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

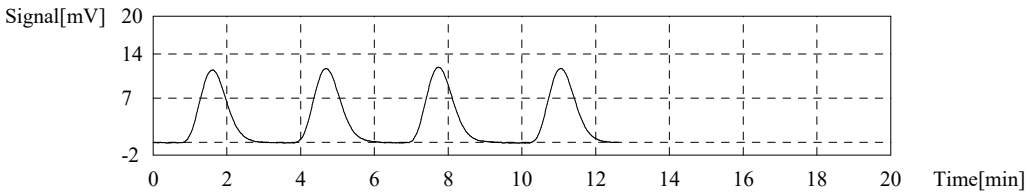
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.44mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	59.31	23.81mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 8:04:39 AM
2	60.80	24.41mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 8:07:59 AM
3	62.27	25.00mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 8:11:28 AM
4	61.09	24.53mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 8:14:51 AM

Mean Area 60.87
Mean Conc. 24.44mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

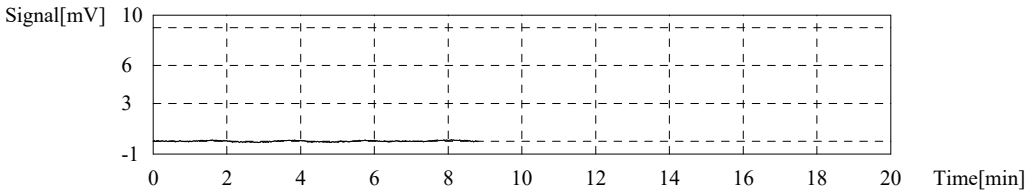
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2081mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2708	0.1282mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 8:22:53 AM
2	0.5608	0.2446mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 8:25:10 AM
3	0.4585	0.2035mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 8:27:37 AM
4	0.5894	0.2561mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 8:30:12 AM

Mean Area 0.4699
Mean Conc. 0.2081mg/L



Sample

Sample Name: 280-176544-d-2
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

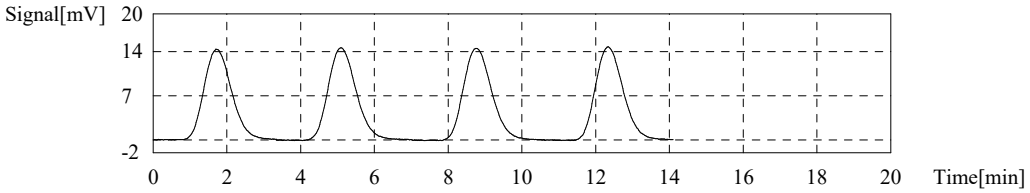
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:31.06mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	75.02	30.12mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 8:39:30 AM
2	77.99	31.31mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 8:43:28 AM
3	78.32	31.44mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 8:47:15 AM
4	78.12	31.36mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 8:50:55 AM

Mean Area 77.36
Mean Conc. 31.06mg/L



Sample

Sample Name: 280-176759-c-11
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

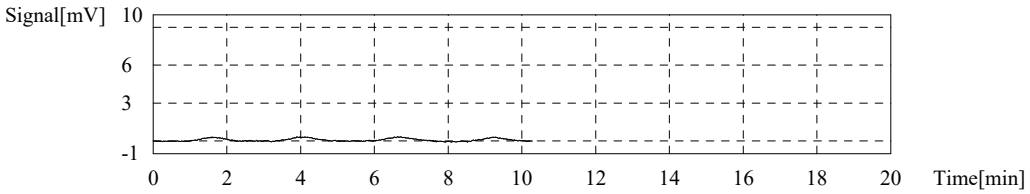
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6426mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.428	0.5925mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 8:59:18 AM
2	1.684	0.6952mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 9:02:06 AM
3	1.501	0.6218mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 9:04:50 AM
4	1.598	0.6607mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 9:07:42 AM

Mean Area 1.553
Mean Conc. 0.6426mg/L



Sample

Sample Name: MS 280-176759-c-11
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

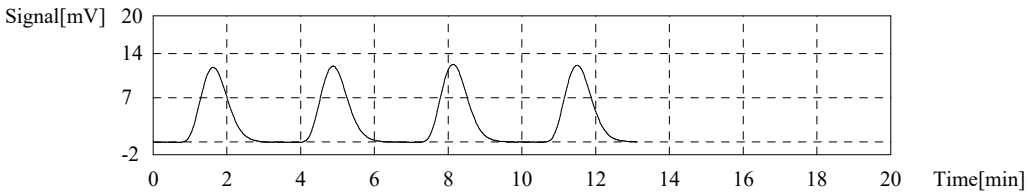
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.57mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	62.60	25.13mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 9:16:54 AM
2	63.81	25.62mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 9:20:21 AM
3	64.70	25.98mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 9:23:53 AM
4	63.68	25.57mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 9:27:19 AM

Mean Area 63.70
Mean Conc. 25.57mg/L



Sample

Sample Name: MSD 280-176759-c-11
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

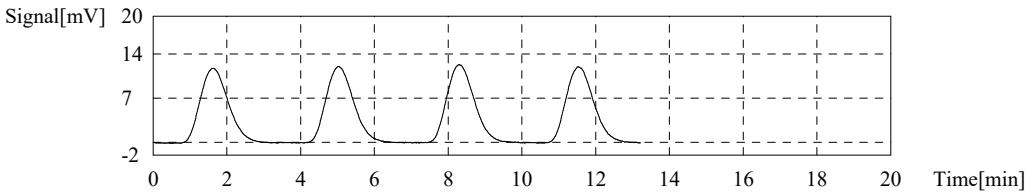
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.59mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	63.66	25.56mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 9:36:41 AM
2	63.40	25.46mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 9:40:13 AM
3	64.29	25.81mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 9:43:37 AM
4	63.61	25.54mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 9:47:07 AM

Mean Area 63.74
Mean Conc. 25.59mg/L



Sample

Sample Name: 280-176544-d-3
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

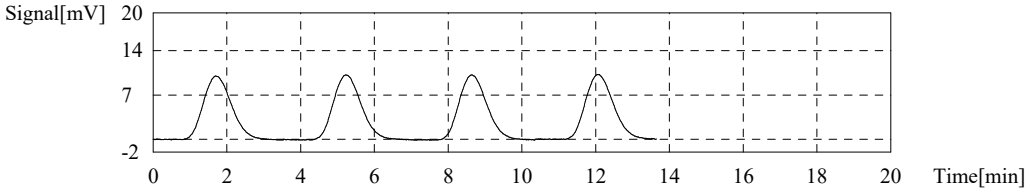
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:21.89mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	54.03	21.70mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 9:56:37 AM
2	54.67	21.95mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 10:00:16 AM
3	54.59	21.92mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 10:03:54 AM
4	54.78	22.00mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 10:07:26 AM

Mean Area 54.52
Mean Conc. 21.89mg/L



Sample

Sample Name: 280-176544-d-4
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

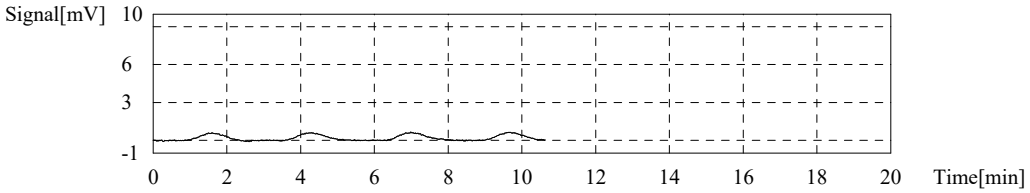
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.332mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.686	1.498mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 10:16:04 AM
2	3.342	1.360mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 10:18:59 AM
3	2.897	1.182mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 10:21:52 AM
4	3.157	1.286mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 10:24:37 AM

Mean Area 3.271
Mean Conc. 1.332mg/L



Sample

Sample Name: 280-176606-e-1
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

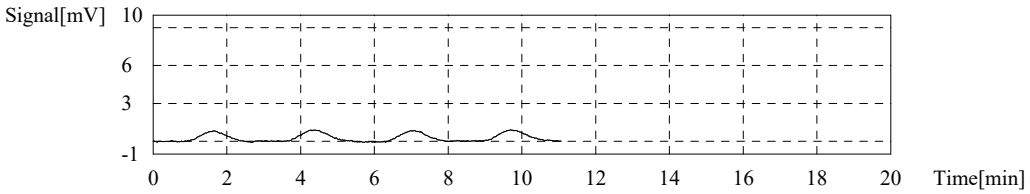
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.832mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.210	1.709mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 10:33:17 AM
2	4.494	1.823mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 10:36:12 AM
3	4.489	1.821mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 10:39:04 AM
4	4.877	1.976mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 10:42:14 AM

Mean Area 4.518
Mean Conc. 1.832mg/L



Sample

Sample Name: 280-176606-e-2
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

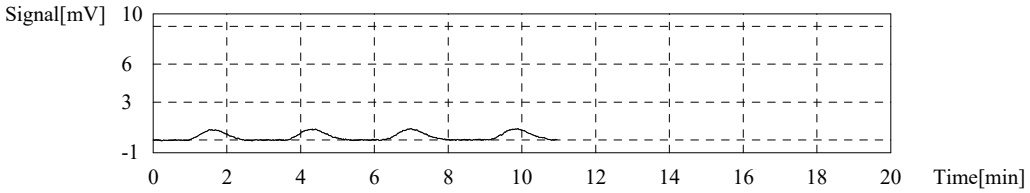
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.793mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.328	1.756mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 10:50:54 AM
2	4.412	1.790mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 10:53:48 AM
3	4.614	1.871mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 10:56:50 AM
4	4.327	1.756mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 10:59:46 AM

Mean Area 4.420
Mean Conc. 1.793mg/L



Sample

Sample Name: 280-176606-e-3
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

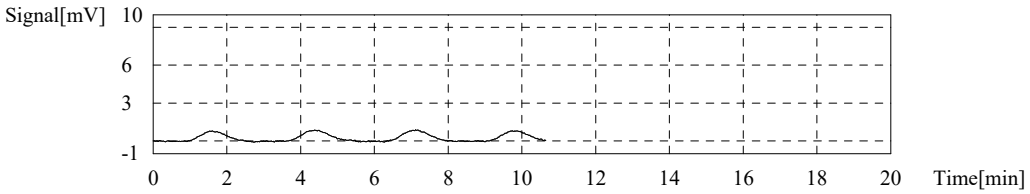
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.741mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.073	1.654mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 11:08:30 AM
2	4.407	1.788mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 11:11:28 AM
3	4.827	1.956mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 11:14:21 AM
4	3.851	1.565mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 11:17:00 AM

Mean Area 4.290
Mean Conc. 1.741mg/L



Sample

Sample Name: 280-176606-e-4
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

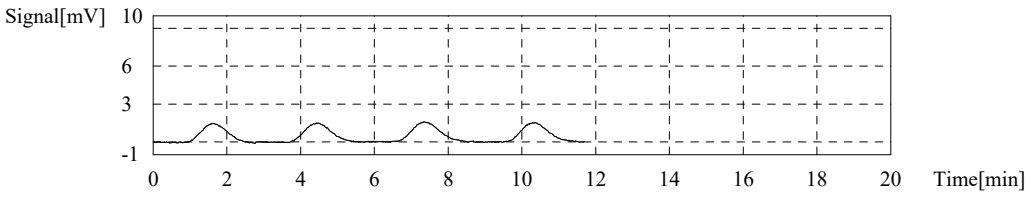
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.158mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.753	3.130mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 11:25:45 AM
2	7.648	3.088mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 11:28:52 AM
3	7.912	3.194mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 11:32:01 AM
4	7.976	3.220mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 11:35:13 AM

Mean Area 7.822
Mean Conc. 3.158mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

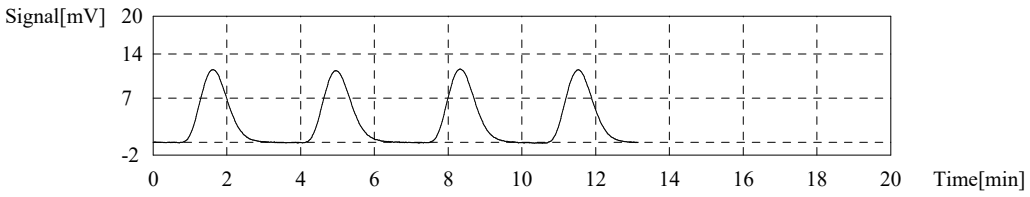
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.62mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	61.08	24.52mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 11:44:29 AM
2	61.10	24.53mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 11:48:03 AM
3	61.58	24.73mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 11:51:26 AM
4	61.55	24.71mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 11:54:53 AM

Mean Area 61.33
Mean Conc. 24.62mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

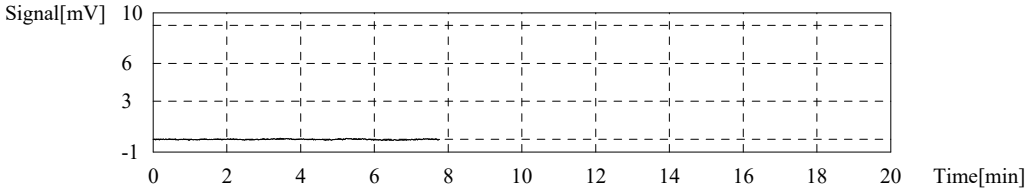
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06139mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.000	0.01959mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:02:46 PM
2	0.2167	0.1065mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:04:54 PM
3	0.1325	0.07275mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:06:59 PM
4	0.06750	0.04667mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:09:11 PM

Mean Area 0.1042
Mean Conc. 0.06139mg/L



Sample

Sample Name: 280-176606-e-5
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

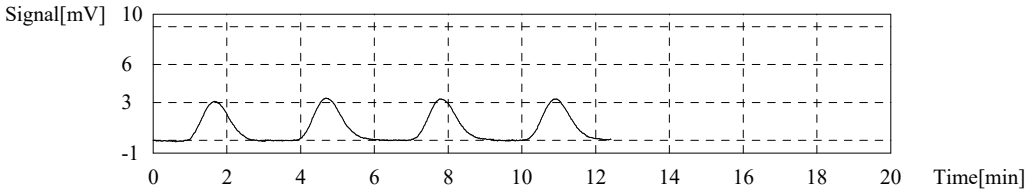
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.939mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.45	6.619mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:18:11 PM
2	17.75	7.141mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:21:28 PM
3	17.32	6.968mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:24:48 PM
4	17.47	7.029mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:28:11 PM

Mean Area 17.25
Mean Conc. 6.939mg/L



Sample

Sample Name: 280-176606-e-6
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

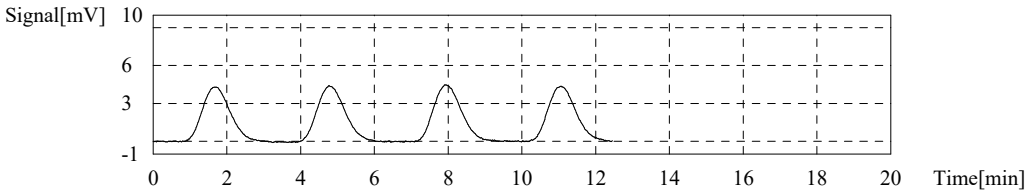
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.430mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	22.88	9.199mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:37:15 PM
2	24.13	9.700mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:40:36 PM
3	23.58	9.480mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:43:53 PM
4	23.23	9.339mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:47:09 PM

Mean Area 23.46
Mean Conc. 9.430mg/L



Sample

Sample Name: 280-176606-e-7
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

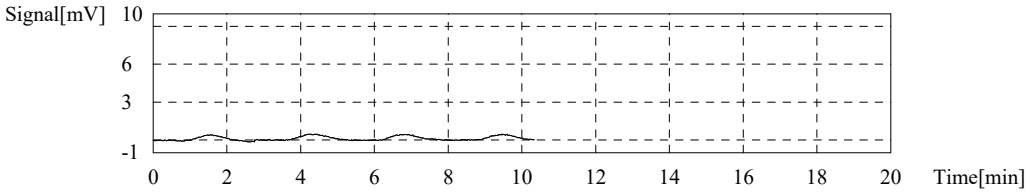
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8933mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.328	0.9536mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:55:52 PM
2	2.287	0.9371mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 12:58:37 PM
3	2.281	0.9347mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:01:28 PM
4	1.815	0.7478mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:04:05 PM

Mean Area 2.178
Mean Conc. 0.8933mg/L



Sample

Sample Name: LCS
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

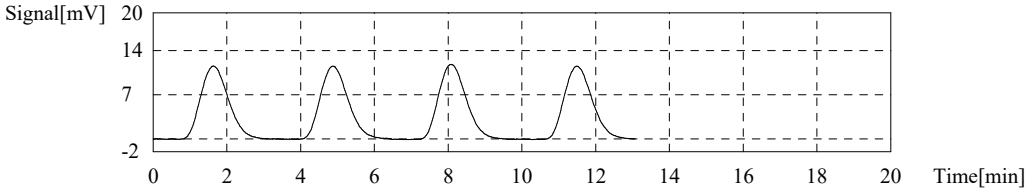
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.77mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	61.56	24.72mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:13:17 PM
2	60.93	24.46mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:16:46 PM
3	62.89	25.25mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:20:21 PM
4	61.42	24.66mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:23:45 PM

Mean Area 61.70
Mean Conc. 24.77mg/L



Sample

Sample Name: MB
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

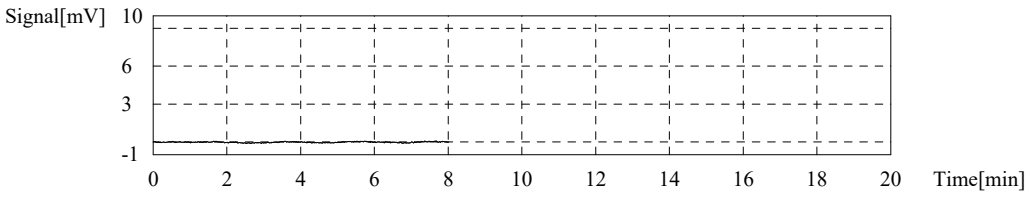
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1458mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5578	0.2434mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:31:49 PM
2	0.1836	0.09325mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:33:54 PM
3	0.1977	0.09891mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:35:59 PM
4	0.3193	0.1477mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:38:17 PM

Mean Area 0.3146
Mean Conc. 0.1458mg/L



Sample

Sample Name: 280-176606-e-8
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

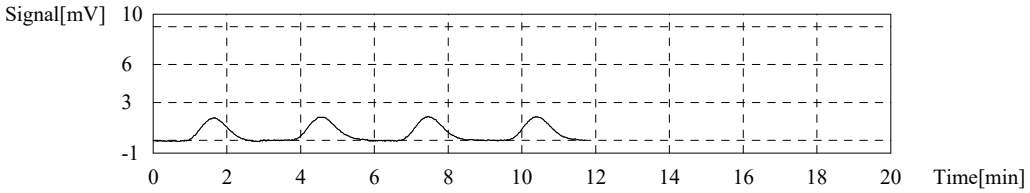
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.939mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.722	3.920mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:47:09 PM
2	9.771	3.940mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:50:15 PM
3	9.773	3.940mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:53:22 PM
4	9.810	3.955mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 1:56:31 PM

Mean Area 9.769
Mean Conc. 3.939mg/L



Sample

Sample Name: MS 280-176606-e-8
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

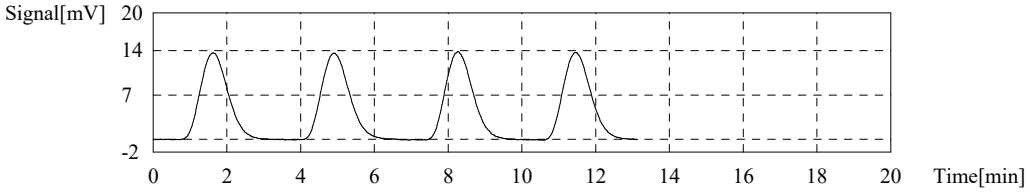
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:29.09mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	72.11	28.95mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:05:46 PM
2	72.61	29.15mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:09:18 PM
3	72.44	29.08mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:12:41 PM
4	72.71	29.19mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:16:10 PM

Mean Area 72.47
Mean Conc. 29.09mg/L



Sample

Sample Name: MSD 280-176606-e-8
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

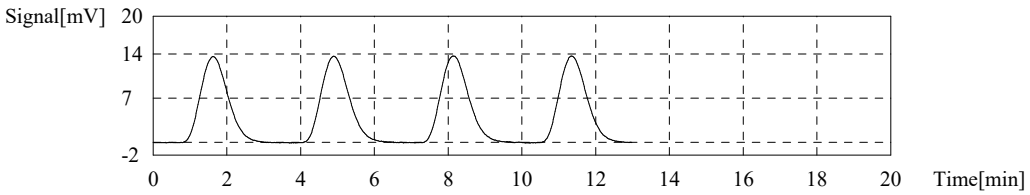
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.84mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	71.34	28.64mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:25:25 PM
2	71.83	28.84mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:28:50 PM
3	72.42	29.07mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:32:14 PM
4	71.77	28.81mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:35:40 PM

Mean Area 71.84
Mean Conc. 28.84mg/L



Sample

Sample Name: 570-139235-d-1
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

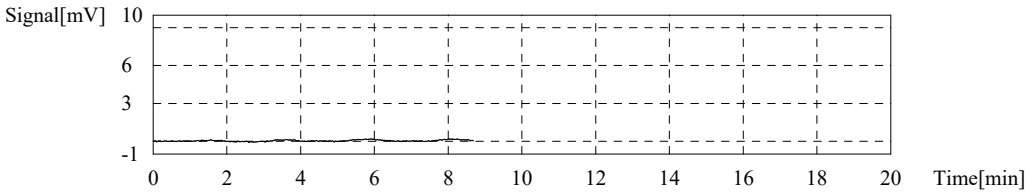
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2708mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3719	0.1688mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:43:35 PM
2	0.6333	0.2737mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:46:00 PM
3	0.8198	0.3485mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:48:30 PM
4	0.6796	0.2922mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:50:52 PM

Mean Area 0.6261
Mean Conc. 0.2708mg/L



Sample

Sample Name: 570-139235-d-2
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

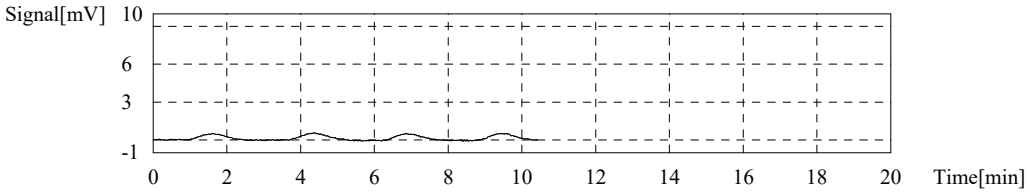
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.034mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.512	1.027mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 2:59:36 PM
2	2.677	1.094mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:02:30 PM
3	2.493	1.020mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:05:15 PM
4	2.429	0.9941mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:07:59 PM

Mean Area 2.528
Mean Conc. 1.034mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

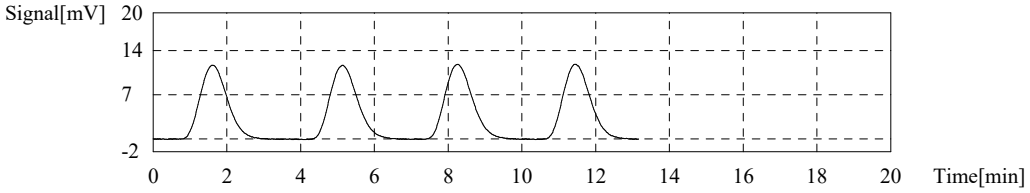
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.74mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	61.05	24.51mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:17:29 PM
2	61.13	24.54mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:20:47 PM
3	62.13	24.95mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:24:10 PM
4	62.13	24.95mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:27:41 PM

Mean Area 61.61
Mean Conc. 24.74mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

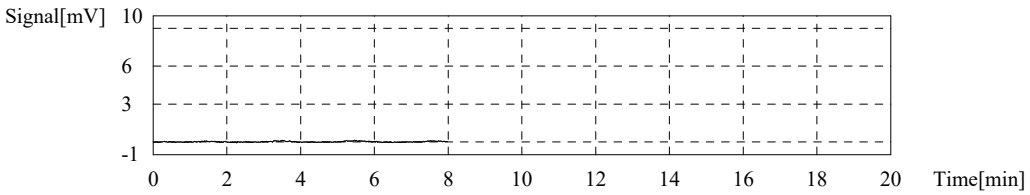
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1335mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.09850	0.05911mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:35:34 PM
2	0.5457	0.2385mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:37:49 PM
3	0.3975	0.1791mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:40:13 PM
4	0.09430	0.05742mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:42:18 PM

Mean Area 0.2840
Mean Conc. 0.1335mg/L



Sample

Sample Name: 570-139235-d-3
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

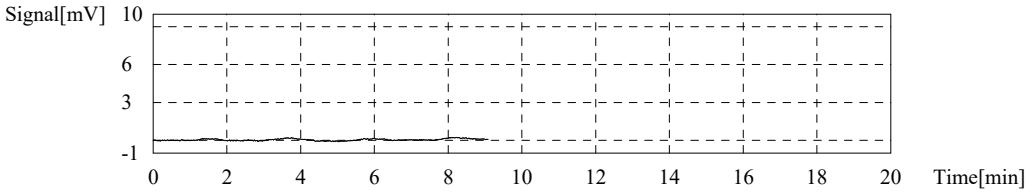
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3154mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5011	0.2206mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:50:23 PM
2	0.9072	0.3836mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:52:51 PM
3	0.8251	0.3506mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:55:19 PM
4	0.7157	0.3067mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 3:57:57 PM

Mean Area 0.7373
Mean Conc. 0.3154mg/L



Sample

Sample Name: 570-138821-e-6
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

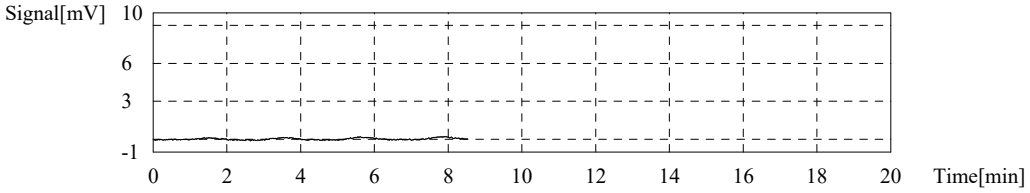
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2918mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5158	0.2265mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:05:55 PM
2	0.7268	0.3112mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:08:13 PM
3	0.7615	0.3251mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:10:36 PM
4	0.7102	0.3045mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:13:00 PM

Mean Area 0.6786
Mean Conc. 0.2918mg/L



Sample

Sample Name: 570-138821-e-1
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

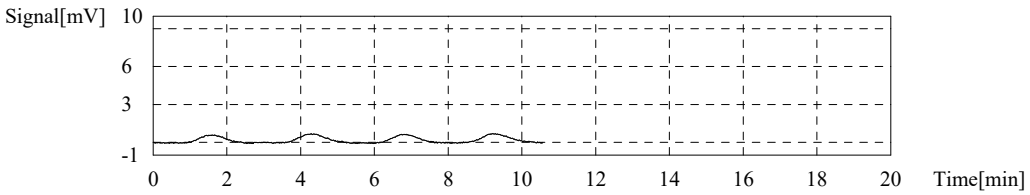
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.426mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.370	1.372mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:21:42 PM
2	3.353	1.365mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:24:29 PM
3	3.397	1.382mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:27:08 PM
4	3.898	1.583mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:30:12 PM

Mean Area 3.505
Mean Conc. 1.426mg/L



Sample

Sample Name: 570-138821-e-2
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

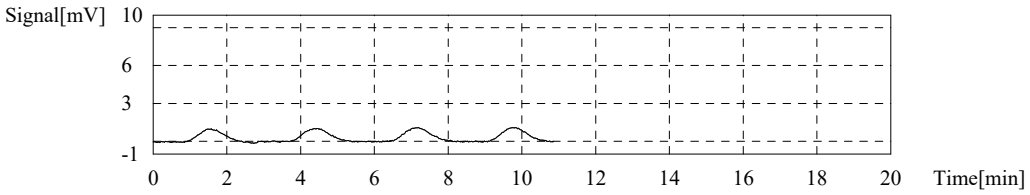
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.235mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.479	2.218mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:39:01 PM
2	5.446	2.205mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:42:00 PM
3	5.587	2.261mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:44:51 PM
4	5.579	2.258mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:47:43 PM

Mean Area 5.523
Mean Conc. 2.235mg/L



Sample

Sample Name: 570-138821-e-3
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

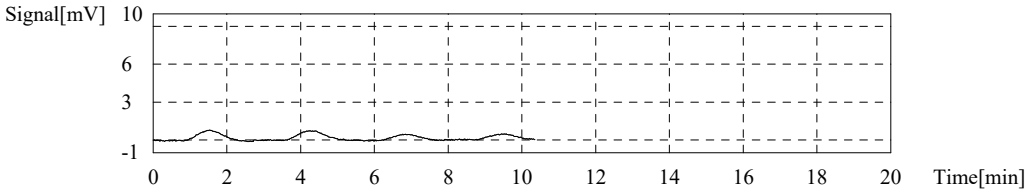
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.346mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.316	1.751mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:56:25 PM
2	3.896	1.583mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 4:59:15 PM
3	2.705	1.105mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:02:02 PM
4	2.304	0.9440mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:04:41 PM

Mean Area 3.305
Mean Conc. 1.346mg/L



Sample

Sample Name: 570-138821-e-4
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

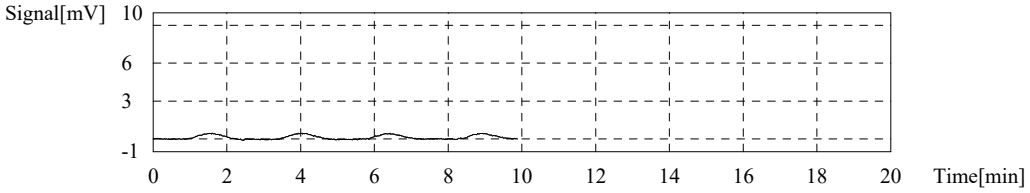
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8865mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.694	1.100mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:13:08 PM
2	2.282	0.9351mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:15:45 PM
3	1.767	0.7285mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:18:27 PM
4	1.900	0.7819mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:21:11 PM

Mean Area 2.161
Mean Conc. 0.8865mg/L



Sample

Sample Name: 570-138821-e-5
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

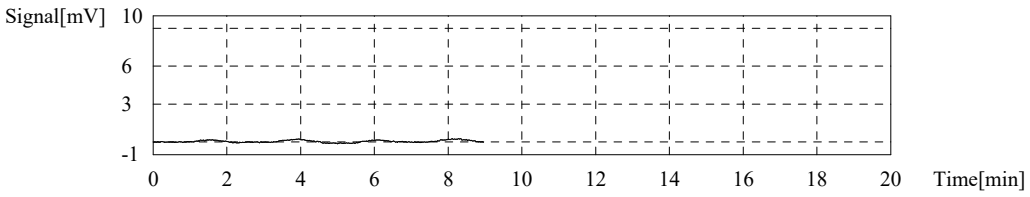
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3786mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8056	0.3428mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:29:30 PM
2	0.8597	0.3645mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:31:58 PM
3	0.9297	0.3926mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:34:14 PM
4	0.9848	0.4147mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:36:46 PM

Mean Area 0.8950
Mean Conc. 0.3786mg/L



Sample

Sample Name: 280-176537-b-1
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

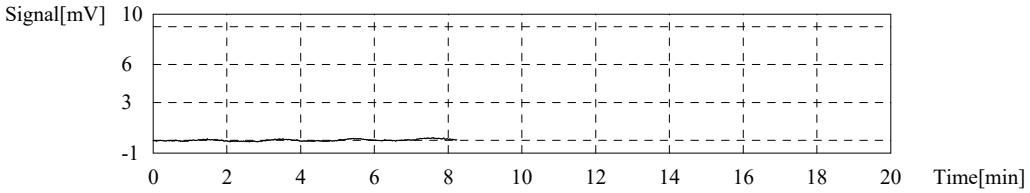
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2377mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3625	0.1650mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:44:39 PM
2	0.4736	0.2096mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:46:51 PM
3	0.6793	0.2921mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:49:08 PM
4	0.6588	0.2839mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 5:51:32 PM

Mean Area 0.5435
Mean Conc. 0.2377mg/L



Sample

Sample Name: MS 280-176537-b-1
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

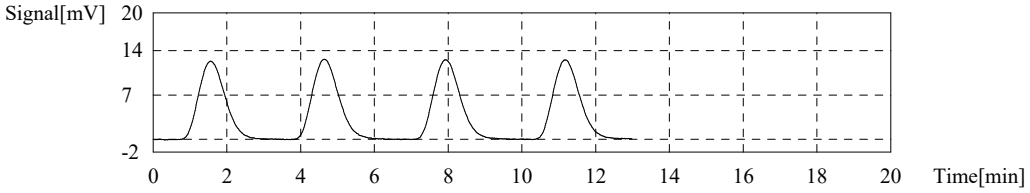
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.46mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	62.13	24.95mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:00:36 PM
2	64.33	25.83mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:04:06 PM
3	63.64	25.55mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:07:32 PM
4	63.52	25.50mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:11:06 PM

Mean Area 63.41
Mean Conc. 25.46mg/L



Sample

Sample Name: MSD 280-176537-b-1
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

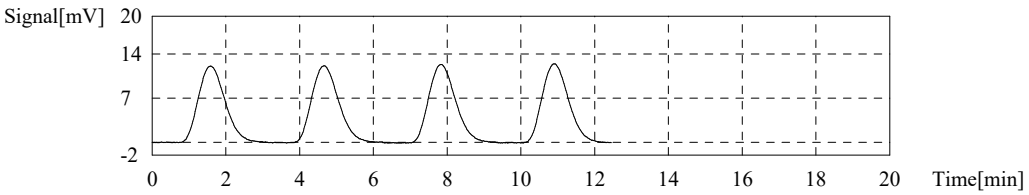
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.10mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	61.53	24.71mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:20:10 PM
2	62.20	24.97mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:23:35 PM
3	63.05	25.32mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:26:51 PM
4	63.27	25.40mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:30:13 PM

Mean Area 62.51
Mean Conc. 25.10mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

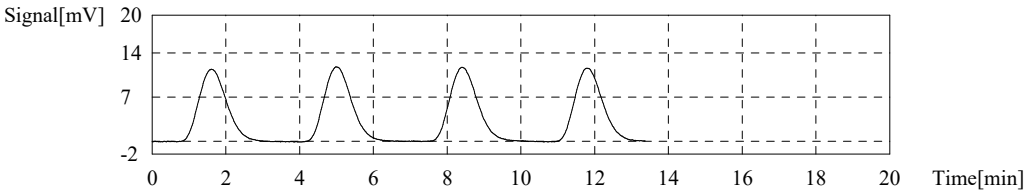
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.75mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	60.78	24.40mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:39:36 PM
2	62.36	25.04mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:43:11 PM
3	62.08	24.93mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:46:45 PM
4	61.30	24.61mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:50:08 PM

Mean Area 61.63
Mean Conc. 24.75mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

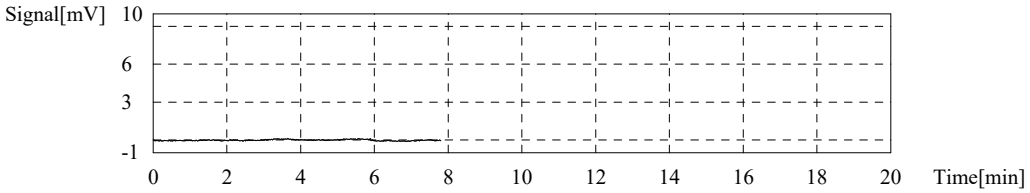
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.08710mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.1816	0.09245mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 6:58:03 PM
2	0.3613	0.1645mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:00:19 PM
3	0.000	0.01959mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:02:24 PM
4	0.1302	0.07183mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:04:29 PM

Mean Area 0.1683
Mean Conc. 0.08710mg/L



Sample

Sample Name: 570-138821-e-7
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

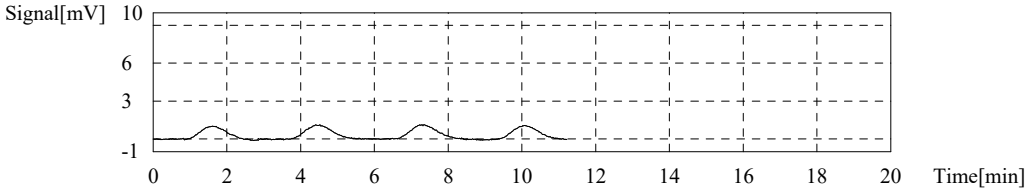
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.226mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.403	2.187mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:13:20 PM
2	5.747	2.325mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:16:25 PM
3	5.293	2.143mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:19:20 PM
4	5.557	2.249mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:22:19 PM

Mean Area 5.500
Mean Conc. 2.226mg/L



Sample

Sample Name: 570-138821-e-8
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

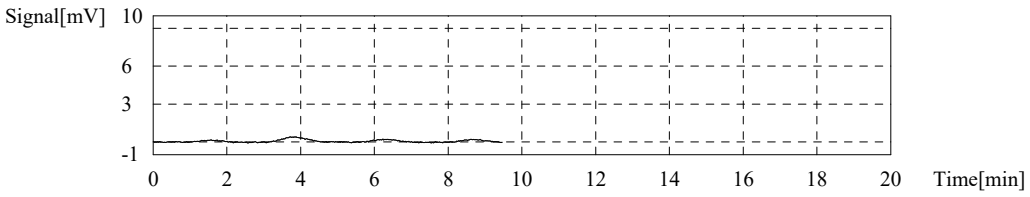
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4726mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6584	0.2837mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:30:33 PM
2	1.925	0.7919mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:33:12 PM
3	0.8734	0.3700mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:35:47 PM
4	1.060	0.4449mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:38:20 PM

Mean Area 1.129
Mean Conc. 0.4726mg/L



Sample

Sample Name: 570-138821-e-9
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

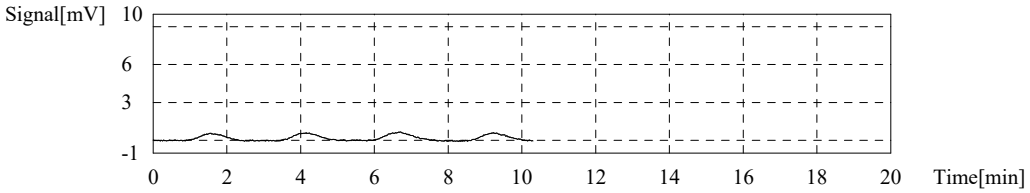
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.202mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.722	1.112mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:46:52 PM
2	2.872	1.172mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:49:37 PM
3	3.051	1.244mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:52:24 PM
4	3.148	1.283mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 7:55:14 PM

Mean Area 2.948
Mean Conc. 1.202mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

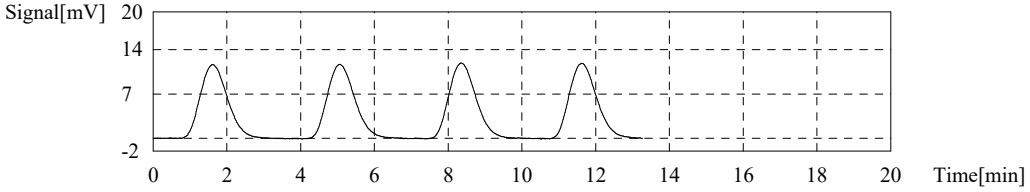
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.69mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	60.45	24.27mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 8:04:40 PM
2	61.40	24.65mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 8:08:11 PM
3	61.68	24.77mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 8:11:40 PM
4	62.40	25.05mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 8:15:07 PM

Mean Area 61.48
Mean Conc. 24.69mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1248mg/L

1. Det

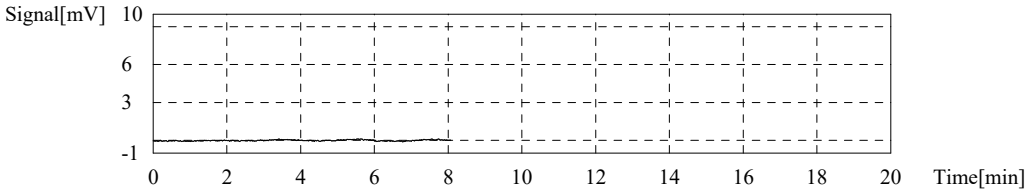
Anal.: NPOC

TOC-Control L Report

ABW
2023_05_31_001.tlx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.000	0.01959mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 8:23:01 PM
2	0.1917	0.09650mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 8:25:15 PM
3	0.4587	0.2036mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 8:27:28 PM
4	0.3989	0.1796mg/L	50uL	1.000		NPOC_Calibration_10_31_2022.2023_03_20_14_43_51.cal	6/1/2023 8:29:44 PM

Mean Area 0.2623
Mean Conc. 0.1248mg/L



Shi 7 TOC

	Analysis	Sample Name	Result	Notes	Vial
9060	NPOC	ICV	PAC2		1
	NPOC	ICB		0.2% H2SO4 -00463	2
	NPOC	LCS			3
	NPOC	MB			4
	NPOC	TIC			5
	NPOC	280-176533-a-1			6
	NPOC	MS 280-176533-a-1			7
	NPOC	MSD 280-176533-a-1			8
	NPOC	280-176533-a-2			9
	NPOC	280-176533-a-3		H3PO4 Preserved	10
	NPOC	280-176533-a-4			11
	NPOC	280-176533-a-5			12
	NPOC	280-176533-a-6			13
	NPOC	280-176524-d-4			14
	NPOC	CCV			15
	NPOC	CCB			16
	NPOC	280-176587-b-1			17
	NPOC	280-176587-b-2			18
	NPOC	280-176587-b-3			19
	NPOC	280-176587-b-4			20
	NPOC	MS 280-176587-b-4			21
	NPOC	MSD 280-176587-b-4			22
	NPOC	280-176587-a-5			23
	NPOC	280-176591-d-2			24
	NPOC	280-176591-d-4			25
	NPOC	280-176591-d-6			26
	NPOC	CCV			27
	NPOC	CCB			28
	NPOC	280-176591-d-7			29
	NPOC	280-176906-c-1			30
	NPOC	280-176906-b-2		5X Color	31
	NPOC	280-176907-c-1			32
	NPOC	280-176907-c-2			33
5310	NPOC	LCS			34
	NPOC	LCSD			35
	NPOC	MB			36
	NPOC	TIC			37
	NPOC	280-176557-g-3			38
	NPOC	CCV			39
	NPOC	CCB			40
	NPOC	MS 280-176557-g-3			41
	NPOC	MSD 280-176557-g-3			42
	NPOC	280-176557-g-4			43
	NPOC	280-176557-g-5			44
	NPOC	280-176557-g-6			45
	NPOC	280-176557-g-7			46
	NPOC	280-176557-g-8			47
	NPOC	280-176557-g-9			48
	NPOC	280-176557-e-10		2x odor	49
	NPOC	280-176544-d-1			50
	NPOC	CCV			51
	NPOC	CCB			52
	NPOC	280-176544-d-2			53

Shi 7 TOC

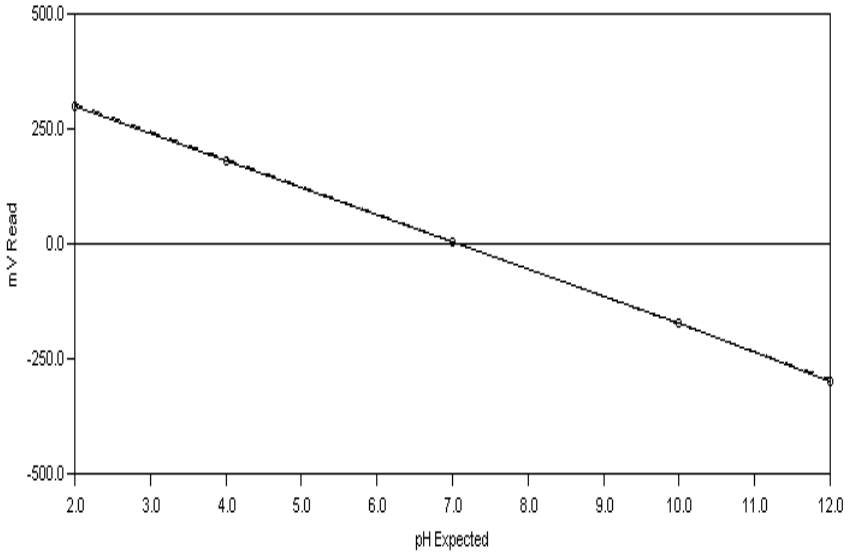
S 310

	Analysis	Sample Name	Result	Notes	Vial
54*	NPOC	280-176759-c-11			54
55*	NPOC	MS 280-176759-c-11			55
56*	NPOC	MSD 280-176759-c-11			56
57*	NPOC	280-176544-d-3			57
58*	NPOC	280-176544-d-4			58
59*	NPOC	280-176606-e-1			59
60*	NPOC	280-176606-e-2			60
61*	NPOC	280-176606-e-3			61
62*	NPOC	280-176606-e-4			62
63*	NPOC	CCV			63
64*	NPOC	CCB			64
65*	NPOC	280-176606-e-5			65
66*	NPOC	280-176606-e-6			66
67*	NPOC	280-176606-e-7			67
68*	NPOC	LCS			68
69*	NPOC	MB			69
70*	NPOC	280-176606-e-8			70
71*	NPOC	MS 280-176606-e-8			71
72*	NPOC	MSD 280-176606-e-8			72
73*	NPOC	570-139235-d-1			73
74*	NPOC	570-139235-d-2			74
75*	NPOC	CCV			75
76*	NPOC	CCB			76
77*	NPOC	570-139235-d-3			77
78*	NPOC	570-138821-e-6			78
79*	NPOC	570-138821-e-1			79
80*	NPOC	570-138821-e-2			80
81*	NPOC	570-138821-e-3			81
82*	NPOC	570-138821-e-4			82
83*	NPOC	570-138821-e-5			83
84*	NPOC	280-176537-b-1			84
85*	NPOC	MS 280-176537-b-1			85
86*	NPOC	MSD 280-176537-b-1			86
87*	NPOC	CCV			87
88*	NPOC	CCB			88
89*	NPOC	570-138821-e-7			89
90*	NPOC	570-138821-e-8			90
91*	NPOC	570-138821-e-9			91
92*	NPOC	CCV			92
93*	NPOC	CCB			93

BWH 5000, 1000 MS.

Calibration Report

Calibration Record # 664



Calibration Settings

Calibration ID	PH	Date	5/19/2023	
Channel	1	Time	10:48 AM	
Probe Type	pH	Temperature	294.24 K	21.09 C
Probe ID	PH ELECTRODE	Analysis Type	Single Line Fit	

Calibration Results

Slope	-59.835	CorrCoeff	0.9999
Intercept	2.124	Equation:	Y = (-59.835) X + (2.124)

Calibration Validity **True** Operator

	Result	Minimum	Maximum
Slope	-59.835	-65.00	-53.00
Intercept	2.124	-100.00	100.00
Correlation Coefficient	0.9999	0.99	1.00

Note: "True" means the calibration was within the specified ranges
"False" means the calibration was NOT within the specified ranges

Calibration Data	Standard	Reading
	2.00	300.41
	4.00	181.76
	7.00	2.07
	10.00	-173.33
	12.00	-300.29

Test America

AT4 Analyst:_____

Water Analysis Report

Run Number 1902 **Order Number** 20230519-2

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	(mL) @ 8.3	(mL) @ 4.5	(mL) @ 4.2	Conc (N)
RINSE	5/19/2023	12:32 PM	20.77	-1.00	5.27	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
INITIAL CHECK	5/19/2023	12:40 PM	20.49	-1.00	10.51	136.58	180.71	.00	88.28	92.44	1.37	1.81	-1.00	.02
BUFFER 7	5/19/2023	12:43 PM	20.11	-1.00	7.03	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
LCS	5/19/2023	12:51 PM	20.15	-1.00	10.61	141.01	182.57	.00	83.12	99.45	1.41	1.83	-1.00	.02
LCSD	5/19/2023	12:58 PM	20.16	-1.00	10.63	139.13	182.96	.00	87.66	95.30	1.39	1.83	-1.00	.02
MB	5/19/2023	1:04 PM	20.34	-1.00	8.57	1.57	5.06	1.93	3.13	.00	.02	.06	.07	.02
280-176527-a-3	5/19/2023	1:12 PM	20.40	-1.00	7.15	.00	456.58	456.58	.00	.00	.00	4.57	-1.00	.02
DU 280-176527-a-3	5/19/2023	1:21 PM	20.59	-1.00	7.29	.00	464.21	464.21	.00	.00	.00	4.64	-1.00	.02
280-176527-a-11	5/19/2023	1:26 PM	20.74	-1.00	6.56	.00	6.22	6.22	.00	.00	.00	.07	.07	.02
280-176527-a-19	5/19/2023	1:33 PM	20.96	-1.00	6.53	.00	234.97	234.97	.00	.00	.00	2.35	-1.00	.02
280-176527-a-28	5/19/2023	1:39 PM	20.96	-1.00	6.70	.00	125.13	125.13	.00	.00	.00	1.25	-1.00	.02
280-176607-a-3	5/19/2023	1:47 PM	20.81	-1.00	6.98	.00	373.61	373.61	.00	.00	.00	3.74	-1.00	.02
280-176572-c-4	5/19/2023	1:53 PM	20.76	-1.00	7.03	.00	104.66	104.66	.00	.00	.00	1.05	-1.00	.02
280-176572-d-6	5/19/2023	2:00 PM	20.70	-1.00	7.00	.00	256.97	256.97	.00	.00	.00	2.57	-1.00	.02
280-176572-c-7	5/19/2023	2:04 PM	20.63	-1.00	4.79	.00	.68	.68	.00	.00	.00	.04	.08	.02
280-176572-a-15	5/19/2023	2:11 PM	20.66	-1.00	6.89	.00	254.83	254.83	.00	.00	.00	2.55	-1.00	.02
CCV	5/19/2023	2:19 PM	20.78	-1.00	10.57	145.36	181.23	.00	71.76	109.48	1.45	1.81	-1.00	.02
CCB	5/19/2023	2:25 PM	20.89	-1.00	8.36	.02	3.84	3.79	.05	.00	.00	.05	.07	.02
280-176607-a-12	5/19/2023	2:31 PM	20.98	-1.00	6.20	.00	129.23	129.23	.00	.00	.00	1.29	-1.00	.02
280-176607-a-19	5/19/2023	2:37 PM	21.21	-1.00	5.91	.00	.96	.96	.00	.00	.00	.03	.05	.02
280-176628-a-2	5/19/2023	2:42 PM	21.14	-1.00	6.17	.00	61.33	61.33	.00	.00	.00	.61	-1.00	.02
280-176628-a-9	5/19/2023	2:47 PM	20.99	-1.00	5.85	.00	4.46	4.46	.00	.00	.00	.05	.07	.02
280-176628-a-16	5/19/2023	2:52 PM	20.84	-1.00	6.18	.00	66.41	66.41	.00	.00	.00	.66	-1.00	.02
280-176642-a-5	5/19/2023	2:59 PM	20.81	-1.00	6.50	.00	287.41	287.41	.00	.00	.00	2.87	-1.00	.02
280-176642-a-12	5/19/2023	3:06 PM	20.89	-1.00	6.62	.00	260.58	260.58	.00	.00	.00	2.61	-1.00	.02
280-176696-a-2	5/19/2023	3:15 PM	20.91	-1.00	7.49	.00	455.40	455.40	.00	.00	.00	4.55	-1.00	.02
280-176696-a-10	5/19/2023	3:26 PM	21.03	-1.00	7.39	.00	890.86	890.86	.00	.00	.00	8.91	-1.00	.02

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Run Number 1902 **Order Number** 20230519-2

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	(mL) @ 8.3	(mL) @ 4.5	(mL) @ 4.2	Conc (N)
280-176696-a-17	5/19/2023	3:35 PM	21.21	-1.00	7.62	.00	434.13	434.13	.00	.00	.00	4.34	-1.00	.02
CCV	5/19/2023	3:42 PM	21.38	-1.00	10.54	150.49	182.39	.00	63.80	118.58	1.50	1.82	-1.00	.02
CCB	5/19/2023	3:49 PM	21.60	-1.00	8.28	.00	3.43	3.43	.00	.00	.00	.05	.07	.02
LCS	5/19/2023	3:57 PM	21.51	-1.00	10.56	141.23	181.27	.00	80.09	101.19	1.41	1.81	-1.00	.02
LCSD	5/19/2023	4:04 PM	21.32	-1.00	10.60	140.38	183.06	.00	85.36	97.70	1.40	1.83	-1.00	.02
MB	5/19/2023	4:11 PM	21.21	-1.00	8.33	.00	3.58	3.58	.00	.00	.00	.05	.07	.02
280-176698-a-2	5/19/2023	4:22 PM	21.12	-1.00	7.37	.00	933.54	933.54	.00	.00	.00	9.34	-1.00	.02
DU 280-176698-a-2	5/19/2023	4:34 PM	21.21	-1.00	7.35	.00	935.40	935.40	.00	.00	.00	9.35	-1.00	.02
280-176698-a-9	5/19/2023	4:40 PM	21.24	-1.00	6.77	.00	2.08	2.08	.00	.00	.00	.04	.06	.02
280-176705-a-2	5/19/2023	4:48 PM	21.19	-1.00	6.99	.00	336.19	336.19	.00	.00	.00	3.36	-1.00	.02
280-176591-c-2	5/19/2023	4:55 PM	21.24	-1.00	7.40	.00	271.98	271.98	.00	.00	.00	2.72	-1.00	.02
280-176591-c-4	5/19/2023	5:01 PM	21.38	-1.00	6.76	.00	176.44	176.44	.00	.00	.00	1.76	-1.00	.02
280-176591-c-6	5/19/2023	5:06 PM	21.51	-1.00	6.49	.00	48.52	48.52	.00	.00	.00	.49	-1.00	.02
280-176591-c-7	5/19/2023	5:11 PM	21.58	-1.00	5.94	.00	4.71	4.71	.00	.00	.00	.06	.07	.02
280-176674-a-7	5/19/2023	5:16 PM	21.38	-1.00	6.01	.00	17.97	17.97	.00	.00	.00	.20	.21	.02
280-176674-a-8	5/19/2023	5:22 PM	21.27	-1.00	6.02	.00	17.77	17.77	.00	.00	.00	.19	.21	.02
CCV	5/19/2023	5:30 PM	21.21	-1.00	10.51	140.19	182.03	.00	83.67	98.36	1.40	1.82	-1.00	.02
CCB	5/19/2023	5:36 PM	21.14	-1.00	8.34	.00	3.58	3.58	.00	.00	.00	.05	.07	.02
280-176514-g-1	5/19/2023	5:43 PM	21.09	-1.00	7.26	.00	257.23	257.23	.00	.00	.00	2.57	-1.00	.02
280-176514-g-2	5/19/2023	5:50 PM	21.12	-1.00	7.23	.00	181.33	181.33	.00	.00	.00	1.81	-1.00	.02
280-176699-b-1	5/19/2023	5:55 PM	21.15	-1.00	5.93	.00	5.65	5.65	.00	.00	.00	.07	.09	.02
280-176699-b-2	5/19/2023	6:01 PM	21.18	-1.00	6.01	.00	79.85	79.85	.00	.00	.00	.80	-1.00	.02
280-176699-b-3	5/19/2023	6:14 PM	21.32	-1.00	7.28	.00	1,161.09	1,161.09	.00	.00	.00	11.61	-1.00	.02
280-176699-b-4	5/19/2023	6:21 PM	21.61	-1.00	8.12	.00	192.21	192.21	.00	.00	.00	1.92	-1.00	.02
280-176699-b-5	5/19/2023	6:28 PM	21.69	-1.00	8.63	37.92	142.54	66.70	75.84	.00	.38	1.43	-1.00	.02
280-176363-c-10	5/19/2023	6:38 PM	21.38	-1.00	6.87	.00	802.17	802.17	.00	.00	.00	8.02	-1.00	.02
280-176363-b-19	5/19/2023	6:50 PM	21.25	-1.00	6.92	.00	905.30	905.30	.00	.00	.00	9.05	-1.00	.02
280-176363-b-23	5/19/2023	7:01 PM	21.21	-1.00	7.36	.00	801.32	801.32	.00	.00	.00	8.01	-1.00	.02
CCV	5/19/2023	7:09 PM	21.15	-1.00	10.44	142.53	184.29	.00	83.51	100.78	1.43	1.84	-1.00	.02
CCB	5/19/2023	7:14 PM	21.08	-1.00	8.00	.00	3.97	3.97	.00	.00	.00	.05	.07	.02

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Run Number 1902 **Order Number** 20230519-2

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	(mL) @ 8.3	(mL) @ 4.5	(mL) @ 4.2	Conc (N)
LCS	5/19/2023	7:22 PM	21.02	-1.00	10.48	138.48	182.98	.00	89.00	93.98	1.38	1.83	-1.00	.02
MB	5/19/2023	7:28 PM	21.06	-1.00	8.13	.00	3.06	3.06	.00	.00	.00	.05	.07	.02
280-176478-c-1	5/19/2023	7:40 PM	21.11	-1.00	7.47	.00	834.79	834.79	.00	.00	.00	8.35	-1.00	.02
DU 280-176478-c-1	5/19/2023	7:51 PM	21.27	-1.00	7.60	.00	846.30	846.30	.00	.00	.00	8.46	-1.00	.02
280-176590-e-1	5/19/2023	8:05 PM	21.43	-1.00	8.53	51.83	1,041.95	938.28	103.66	.00	.52	10.42	-1.00	.02
280-176590-e-2	5/19/2023	8:21 PM	21.76	-1.00	8.43	48.98	1,389.68	1,291.73	97.96	.00	.49	13.90	-1.00	.02
280-176590-f-3	5/19/2023	8:34 PM	21.53	-1.00	8.47	44.06	970.28	882.16	88.12	.00	.44	9.70	-1.00	.02
280-176590-f-4	5/19/2023	8:49 PM	21.34	-1.00	8.83	105.39	1,252.70	1,041.92	210.78	.00	1.05	12.53	-1.00	.02
280-176593-a-1	5/19/2023	8:55 PM	21.25	-1.00	6.70	.00	135.22	135.22	.00	.00	.00	1.35	-1.00	.02
280-176596-a-2	5/19/2023	9:00 PM	21.11	-1.00	6.68	.00	57.26	57.26	.00	.00	.00	.57	-1.00	.02
280-176601-a-1	5/19/2023	9:07 PM	21.02	-1.00	7.29	.00	158.20	158.20	.00	.00	.00	1.58	-1.00	.02
280-176606-a-1	5/19/2023	9:15 PM	20.99	-1.00	7.67	.00	347.01	347.01	.00	.00	.00	3.47	-1.00	.02
CCV	5/19/2023	9:23 PM	21.02	-1.00	10.41	146.52	185.93	.00	78.83	107.10	1.47	1.86	-1.00	.02
CCB	5/19/2023	9:29 PM	21.03	-1.00	8.17	.00	3.45	3.45	.00	.00	.00	.05	.07	.02
280-176606-a-2	5/19/2023	9:36 PM	21.08	-1.00	7.68	.00	353.68	353.68	.00	.00	.00	3.54	-1.00	.02
280-176606-a-3	5/19/2023	9:45 PM	21.22	-1.00	7.92	.00	449.21	449.21	.00	.00	.00	4.49	-1.00	.02
280-176606-a-4	5/19/2023	9:53 PM	21.41	-1.00	7.76	.00	359.19	359.19	.00	.00	.00	3.59	-1.00	.02
280-176606-a-5	5/19/2023	10:02 PM	21.58	-1.00	8.05	.00	530.27	530.27	.00	.00	.00	5.30	-1.00	.02
280-176606-a-6	5/19/2023	10:13 PM	21.38	-1.00	7.95	.00	708.56	708.56	.00	.00	.00	7.09	-1.00	.02
280-176606-a-7	5/19/2023	10:18 PM	21.25	-1.00	6.92	.00	6.12	6.12	.00	.00	.00	.07	.08	.02
280-176606-a-8	5/19/2023	10:25 PM	21.11	-1.00	7.38	.00	242.17	242.17	.00	.00	.00	2.42	-1.00	.02
280-176634-a-1	5/19/2023	10:32 PM	21.02	-1.00	7.60	.00	97.78	97.78	.00	.00	.00	.98	-1.00	.02
280-176634-a-2	5/19/2023	10:52 PM	20.99	-1.00	7.56	.00	.00	.00	.00	.00	.00	.00	.00	.02
280-176634-b-3	5/19/2023	11:12 PM	21.05	-1.00	7.65	.00	.00	.00	.00	.00	.00	.00	.00	.02
CCV	5/19/2023	11:21 PM	21.02	-1.00	10.33	162.94	193.27	.00	60.66	132.61	1.63	1.93	-1.00	.02
CCB	5/19/2023	11:27 PM	20.96	-1.00	7.74	.00	3.18	3.18	.00	.00	.00	.06	.08	.02
LCS	5/19/2023	11:35 PM	20.98	-1.00	10.37	142.27	185.64	.00	86.74	98.90	1.42	1.86	-1.00	.02
MB	5/19/2023	11:41 PM	21.12	-1.00	8.03	.00	2.82	2.82	.00	.00	.00	.05	.07	.02
280-176658-c-1	5/19/2023	11:47 PM	21.47	-1.00	6.93	.00	118.76	118.76	.00	.00	.00	1.19	-1.00	.02
DU 280-176658-c-1	5/19/2023	11:53 PM	21.25	-1.00	7.09	.00	119.55	119.55	.00	.00	.00	1.20	-1.00	.02

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Run Number 1902 **Order Number** 20230519-2

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	(mL) @ 8.3	(mL) @ 4.5	(mL) @ 4.2	Conc (N)
280-176658-b-2	5/19/2023	11:59 PM	21.09	-1.00	7.12	.00	122.09	122.09	.00	.00	.00	1.22	-1.00	.02
280-176658-b-3	5/20/2023	12:05 AM	20.98	-1.00	7.13	.00	122.93	122.93	.00	.00	.00	1.23	-1.00	.02
280-176658-b-4	5/20/2023	12:11 AM	20.88	-1.00	7.12	.00	122.57	122.57	.00	.00	.00	1.23	-1.00	.02
280-176658-b-5	5/20/2023	12:17 AM	20.85	-1.00	7.16	.00	122.91	122.91	.00	.00	.00	1.23	-1.00	.02
280-176658-b-6	5/20/2023	12:23 AM	20.81	-1.00	7.15	.00	125.25	125.25	.00	.00	.00	1.25	-1.00	.02
280-176658-b-7	5/20/2023	12:29 AM	20.77	-1.00	7.20	.00	128.46	128.46	.00	.00	.00	1.28	-1.00	.02
280-176634-b-4	5/20/2023	12:37 AM	20.80	-1.00	7.87	.00	314.73	314.73	.00	.00	.00	3.15	-1.00	.02
280-176634-a-5	5/20/2023	12:43 AM	20.84	-1.00	7.12	.00	73.82	73.82	.00	.00	.00	.74	-1.00	.02
CCV	5/20/2023	12:51 AM	20.92	-1.00	10.33	138.77	186.94	.00	96.34	90.60	1.39	1.87	-1.00	.02
CCB	5/20/2023	12:57 AM	21.02	-1.00	8.08	.00	4.30	4.30	.00	.00	.00	.06	.07	.02
280-176634-a-6	5/20/2023	1:12 AM	21.14	-1.00	9.92	.00	.00	.00	.00	.00	.00	.00	.00	.02
280-176634-b-7	5/20/2023	1:20 AM	20.94	-1.00	8.64	35.16	142.29	71.98	70.31	.00	.35	1.42	-1.00	.02
280-176634-b-8	5/20/2023	1:41 AM	20.74	-1.00	7.66	.00	.00	.00	.00	.00	.00	.00	.00	.02
280-176634-b-9	5/20/2023	2:03 AM	20.58	-1.00	7.71	.00	.00	.00	.00	.00	.00	.00	.00	.02
280-176634-b-10	5/20/2023	2:10 AM	20.44	-1.00	8.04	.00	129.94	129.94	.00	.00	.00	1.30	-1.00	.02
280-176634-b-11	5/20/2023	2:16 AM	20.33	-1.00	7.71	.00	84.59	84.59	.00	.00	.00	.85	-1.00	.02
280-176634-b-12	5/20/2023	2:24 AM	20.27	-1.00	7.85	.00	316.05	316.05	.00	.00	.00	3.16	-1.00	.02
280-176669-a-1	5/20/2023	2:34 AM	20.27	-1.00	8.21	.00	631.75	631.75	.00	.00	.00	6.32	-1.00	.02
280-176669-a-2	5/20/2023	2:42 AM	20.30	-1.00	8.60	52.79	413.71	308.13	105.58	.00	.53	4.14	-1.00	.02
280-176669-a-3	5/20/2023	2:51 AM	20.31	-1.00	8.10	.00	396.08	396.08	.00	.00	.00	3.96	-1.00	.02
CCV	5/20/2023	2:59 AM	20.40	-1.00	10.24	153.19	190.80	.00	75.22	115.58	1.53	1.91	-1.00	.02
CCB	5/20/2023	3:05 AM	20.77	-1.00	8.02	.00	4.67	4.67	.00	.00	.00	.07	.09	.02
LCS	5/20/2023	3:12 AM	20.65	-1.00	10.28	143.49	187.96	.00	88.94	99.02	1.43	1.88	-1.00	.02
MB	5/20/2023	3:18 AM	20.52	-1.00	8.06	.00	3.93	3.93	.00	.00	.00	.06	.07	.02
280-176669-a-4	5/20/2023	3:26 AM	20.45	-1.00	8.03	.00	280.02	280.02	.00	.00	.00	2.80	-1.00	.02
DU 280-176669-a-4	5/20/2023	3:33 AM	20.40	-1.00	8.17	.00	284.51	284.51	.00	.00	.00	2.85	-1.00	.02
280-176670-a-1	5/20/2023	3:39 AM	20.38	-1.00	7.36	.00	122.30	122.30	.00	.00	.00	1.22	-1.00	.02
280-176670-a-2	5/20/2023	3:45 AM	20.37	-1.00	7.27	.00	127.39	127.39	.00	.00	.00	1.27	-1.00	.02
280-176670-a-3	5/20/2023	3:51 AM	20.36	-1.00	7.29	.00	127.82	127.82	.00	.00	.00	1.28	-1.00	.02
280-176670-a-4	5/20/2023	3:57 AM	20.37	-1.00	7.18	.00	112.54	112.54	.00	.00	.00	1.13	-1.00	.02

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Run Number 1902 **Order Number** 20230519-2

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	(mL) @ 8.3	(mL) @ 4.5	(mL) @ 4.2	Conc (N)
280-176670-a-6	5/20/2023	4:03 AM	20.41	-1.00	6.56	.00	80.86	80.86	.00	.00	.00	.81	-1.00	.02
280-176670-a-5	5/20/2023	4:09 AM	20.45	-1.00	7.11	.00	129.46	129.46	.00	.00	.00	1.29	-1.00	.02
280-176670-a-8	5/20/2023	4:15 AM	20.54	-1.00	7.53	.00	131.08	131.08	.00	.00	.00	1.31	-1.00	.02
280-176722-e-1	5/20/2023	4:22 AM	20.77	-1.00	7.93	.00	346.50	346.50	.00	.00	.00	3.46	-1.00	.02
CCV	5/20/2023	4:30 AM	20.67	-1.00	10.22	135.42	190.65	.00	110.46	80.19	1.35	1.91	-1.00	.02
CCB	5/20/2023	4:36 AM	20.59	-1.00	7.97	.00	4.22	4.22	.00	.00	.00	.06	.08	.02
280-176722-e-2	5/20/2023	4:44 AM	20.51	-1.00	7.70	.00	337.46	337.46	.00	.00	.00	3.37	-1.00	.02
280-176683-a-1	5/20/2023	4:51 AM	20.48	-1.00	7.71	.00	246.60	246.60	.00	.00	.00	2.47	-1.00	.02
280-176683-a-2	5/20/2023	4:58 AM	20.48	-1.00	7.70	.00	248.05	248.05	.00	.00	.00	2.48	-1.00	.02
280-176683-a-3	5/20/2023	5:04 AM	20.47	-1.00	6.66	.00	4.46	4.46	.00	.00	.00	.07	.09	.02
280-176439-c-2	5/20/2023	5:15 AM	20.47	-1.00	9.16	177.06	798.65	444.54	354.12	.00	1.77	7.99	-1.00	.02
280-176526-j-1	5/20/2023	5:35 AM	20.47	-1.00	7.97	.00	2,487.05	2,487.05	.00	.00	.00	24.87	-1.00	.02
280-176663-m-1	5/20/2023	5:56 AM	21.12	-1.00	8.46	204.56	.00	-409.12	409.12	.00	2.05	.00	.00	.02
280-176663-l-2	5/20/2023	6:15 AM	21.51	-1.00	8.29	.67	.00	-1.35	1.35	.00	.01	.00	.00	.02
280-176663-k-3	5/20/2023	6:35 AM	21.87	-1.00	8.43	163.55	.00	-327.09	327.09	.00	1.64	.00	.00	.02
280-176663-k-4	5/20/2023	6:55 AM	21.90	-1.00	8.61	244.19	.00	-488.38	488.38	.00	2.44	.00	.00	.02
RINSE	5/20/2023	7:02 AM	21.90	-1.00	8.31	.00	10.02	10.02	.00	.00	.00	.13	.16	.02
CCV	5/20/2023	7:10 AM	21.82	-1.00	10.16	139.25	190.81	.00	103.13	87.68	1.39	1.91	-1.00	.02
CCB	5/20/2023	7:16 AM	21.77	-1.00	7.96	.00	3.35	3.35	.00	.00	.00	.06	.08	.02

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Shipping and Receiving Documents

leidos

Chain of Custody Record

COC No.: RVAAP-555-TA

Page 1 of 1

Date: 5/16/2023

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 2023
Job/P.O. No.: P010216426
Sampler (Signature) Melissa Ray (Printed Name) Melissa Ray

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	Expanded Explosives (6)(A)	Temperature Blank	Total Number of Containers
	WBGmw-014-230401-GW	NA	NA	5/16/23	1313	W	2		2

Requested Parameters

OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS

MR 5/16/23

Relinquished by	Date	Received by	Date	Notes: Total Number of Containers: 2	Shipment Method: Courier
Signature: Kim Lamer	5/16/23	Signature: ETADEN	920 5/17/23	A. Cool, 4C B. HCl, pH<2, Cool, 4C C. HNO3, pH<2, Cool, 4C D. NaOH, pH>12, Cool 4C	
Printed Name: Leidos	Time: 1730	Printed Name	Time	1. SW 8260B Notes: 2. SW 8270D 3. SW 8270D SIM 4. SW 8082A 5. SW 8081B	8TB 1968 1501
Company		Company		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	**Temperature Blank**
Relinquished by	Date	Received by	Date		Lab:
Signature		Signature			**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

0.2, 2.1, °C IR#4 CF0.1

280-176591 Chain of Custody

Chain of Custody Record

leidos

Page 1 of 1

COC No.: RVAAP-[illegible]-TA

Date: 5/16/23

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 2023
Job/P.O. No.: P010216426
Sampler (Signature) [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	Expanded Explosives (6)(A)	Sulfide (9)(F)	Nitrate/Nitrite/Sulfate (10)(A)	Alkalinity (14)(A)	TOC (13)(E)	Temperature Blank	Total Number of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
	WBGmw-006-230401-GW	NA	NA	5/16/23	1354	W	2	1	1		1		5	

Requested Parameters

TW 5/16/23

Relinquished by	Date	Received by	Date	Time
Signature: [signature]	5/16/23	Signature: [signature] ETADEN	5-17-23	0920
Printed Name: Leidos	Time: 1700	Printed Name		
Company		Company		
Relinquished by	Date	Received by	Date	Time
Signature		Signature		
Printed Name	Time	Printed Name		
Company		Company		

Notes: Total Number of Containers: 5

A. Cool, 4C
B. HCl, pH<2, Cool, 4C
C. HNO3, pH<2, Cool, 4C
D. NaOH, pH>12, Cool 4C
E. H2SO4, pH<2, Cool, 4C
F. NaOH/Zn, pH>12, Cool 4C

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 350.1
12. EPA 353.2
13. SW 9060A
14. SM2320B

Notes:

Shipment Method: Courier

8178 1968 1501

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 1 of 1

COC No.: RVAAP-551-TA

Date: 5/16/23

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 2023
Job/P.O. No.: P010216426
Sampler (Signature) [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: Expanded Explosives (6)(A)	Temperature Blank	Total Number of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
	WBGmw-021-230401-GW	NA	NA	5/16/23	1308	W	2		2	

Relinquished by
Signature: [signature]
Printed Name: Ryan Lanham
Company: Leidos
Date: 5/16/23
Time: 1700

Received by
Signature: [signature] ETADEN
Printed Name:
Company:
Date: 5-17-23
Time: 0920

Relinquished by
Signature:
Printed Name:
Company:
Date:
Time:

Received by
Signature:
Printed Name:
Company:
Date:
Time:

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

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

Notes:

Shipment Method: Courier

8178 1968 1501

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 1 of 1

COC No.: RVAAP-SO-TA

Date: 5/16/23

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 2023
Job/P.O. No.: P010216426
Sampler (Signature) Klee (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: Expanded Explosives (6)(A)	Sulfide (9)(F)	Nitrate/Nitrite/Sulfate (10)(A)	Alkalinity (14)(A)	TOC (13)(E)	Temperature Blank	Total Number of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
	WBGmw-009-230401-GW			5/16/23	1136	W	2	1	1		1		5	

Relinquished by
Signature: Ryan Lanham
Printed Name: Ryan Lanham
Company: Leidos
Date: 5/16/23
Time: 1700

Received by
Signature: ETADEN
Printed Name:
Company:
Date: 5-17-23
Time: 0927

Relinquished by
Signature:
Printed Name:
Company:
Date:
Time:

Received by
Signature:
Printed Name:
Company:
Date:
Time:

Notes:
Total Number of Containers: 5

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

8178 1968 1501

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 1 of 1

COC No.: RVAAP-329-TA

Date: 5/16/23

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 2023
Job/P.O. No.: P010216426
Sampler (Signature) Clee (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)				Expanded Explosives (6)(A)														Temperature Blank	Total Number of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
	WBGmw-020-230401-GW	NA	NA	5/10/23	1032	W					2															2	

Relinquished by
Signature
Printed Name
Leidos
Company
Date 5/16/23
Time 1700

Received by ETADEN
Signature
Printed Name
Company
Date 5-17-23
Time 0920

Relinquished by
Signature
Printed Name
Company
Date
Time

Received by
Signature
Printed Name
Company
Date
Time

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

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

Notes:

Shipment Method: Courier

8178 1968 1501

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

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COC No.: RVAAP-334-TA

Date: 5/16/2023

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 2023
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: Expanded Explosives (6)(A)	Sulfide (9)(F)	Nitrate/Nitrite/Sulfate (10)(A)	Alkalinity (14)(A)	TOC (13)(E)	Temperature Blank	Total Number of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
	WBGmw-018-230401-GW	NA	NA	5/16/23	0939	W	2	1	1		1		5	
	WBGMW-RBmw-018-2023	NA	NA	5/16/23	1400	W	2	1	1		1		5	tied to WBGmw-018-230401-GW

MR 5/16/23

Relinquished by	Date	Received by	Date	Notes: Total Number of Containers: 10	Shipment Method: Courier
Signature		Signature: ETADEN	5-17-23	A. Cool, 4C B. HCl, pH<2, Cool, 4C C. HNO3, pH<2, Cool, 4C D. NaOH, pH>12, Cool 4C	
Printed Name: Leidos	Time	Printed Name	Time: 0920	1. SW 8260B Notes: 2. SW 8270D 3. SW 8270D SIM 4. SW 8082A 5. SW 8081B	9178 1968 1556
Company		Company		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	**Temperature Blank**
Relinquished by	Date	Received by	Date		Lab: **Leidos** 8866 Commons Drive Twinsburg, OH 44087 (330) 405-5802
Signature		Signature			
Printed Name	Time	Printed Name	Time		
Company		Company			

Leidos White: Laboratory Pink: Project Manager Yellow: Project QAO Goldenrod: Field Project Manager

leidos

Chain of Custody Record

Page 1 of 1

COC No.: RVAAP-355-TA

Date: 5/16/2023

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 2023
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	Expanded Explosives (6)(A)	Requested Parameters	Temperature Blank	Total Number of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
	WBGmw-016-230401-GW	NA	NA	5/16/2023	1050	W	2			2	

MR 5/16/23

Relinquished by
Signature
Printed Name: Leidos
Company
Date: 5/16/2023
Time: 1700

Received by: ETADEN
Signature
Printed Name
Company
Date: 5-17-23
Time: 0920

Relinquished by
Signature
Printed Name
Company
Date
Time

Received by
Signature
Printed Name
Company
Date
Time

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

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

Notes:

Shipment Method: Courier

8178 1968 1556

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 1 of 1

COC No.: RVAAP-356-TA

Date: 5/16/2023

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 2023
Job/P.O. No.: P010216426
Sampler (Signature) Melissa Riley (Printed Name) Melissa Rago

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	Expanded Explosives (6)(A)	Temperature Blank	Total Number of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
	WBGmw-017-230401-GW	NA	NA	5/16/23	1613	W	2		2	

MR 5/16/23

Relinquished by
Signature
Printed Name: Leidos
Company
Date: 5/16/23
Time: 1700

Received by: M ETADEN
Signature
Printed Name
Company
Date: 5-17-23
Time: 0820

Relinquished by
Signature
Printed Name
Company
Date
Time

Received by
Signature
Printed Name
Company
Date
Time

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

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

Notes:

Shipment Method: Courier

8176 1968 1557

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

ORIGIN ID:SKYA (330) 998-4246

TESTAMERICA DENVER LAB
4955 YARROW ST

ARVADA, CO 80002
UNITED STATES US

SHIP DATE: 16MAY23
ACTWGT: 50.85 LB
CAD: 6995873/SSF02420
DIMS: 26x13x16 IN

BILL THIRD PARTY.

Part # 15629 REV 05/23

TO

TESTAMERICA
4955 YARROW

ARVADA CO 8

(330) 998-4246
INV:
PO:

DEPT:

FedEx
Express

TRK# 0215 8178 1968 1501

WED - 17 MAY 10:30A
PRIORITY OVERNIGHT

AHS
80002
CO-US DEN

NX LAAA

280-176591 Waybill

ORIGIN ID:SKYA (330) 998-4246

TESTAMERICA DENVER LAB
4955 YARROW ST

ARVADA, CO 80002
UNITED STATES US

SHIP DATE: 16MAY23
ACTWGT: 54.45 LB
CAD: 6995873/[illegible]FO2420
DIMS: 26x13x[illegible] IN

BILL THIRD [illegible]RTY

Part # 156297-438 THU DE EXP 05/23

TO

TESTAMERICA DENVER LAB
4955 YARROW ST

ARVADA CO 80002

(330) 998-4246 REF:

INV:
PO: DEPT:

FedEx Express

An UPSAY company

TRK# 0215 8178 1968 1556

WED - 17 MAY 10:30A
PRIORITY OVERNIGHT

AHS
80002
CO-US DEN

NX LAAA

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 280-176591-1

Login Number: 176591
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	