

ANALYTICAL REPORT

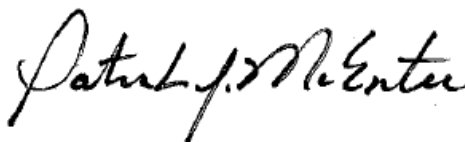
Job Number: 280-137048-1

Job Description: Cornhusker (CHAAP)

For:

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Attention: Corey Schwabenlander



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6/17/2020 7:51 PM

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The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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Definitions/Glossary

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137048-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
D	The reported value is from a dilution.
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

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
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: Brice Environmental Services, Corp

Project: Cornhusker (CHAAP)

Report Number: 280-137048-1

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 5/29/2020 9:35 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.2° C.

DISSOLVED GASES (GC)

Samples EW7-PM21A-3-25 (280-137048-1) and EW7-PM22A-3-25 (280-137048-2) were analyzed for Dissolved Gases (GC) in accordance with RSK_175. The samples were analyzed on 06/01/2020 and 06/03/2020.

Methane failed the recovery criteria high for the MS of sample EW7-PM21A-3-25MS (280-137048-1) in batch 280-496925. Methane failed the recovery criteria high for the MSD of sample EW7-PM21A-3-25MSD (280-137048-1) in batch 280-496925. Refer to the QC report for details.

Sample EW7-PM22A-3-25 (280-137048-2)[3X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

NITROAROMATICS AND NITRAMINES (HPLC)

Samples EW7-PM21A-3-25 (280-137048-1) and EW7-PM22A-3-25 (280-137048-2) were analyzed for Nitroaromatics and Nitramines (HPLC) in accordance with 8330A. The samples were prepared on 06/01/2020 and analyzed on 06/12/2020 and 06/13/2020.

1,2-Dinitrobenzene failed the surrogate recovery criteria high for EW7-PM21A-3-25 (280-137048-1). 1,2-Dinitrobenzene failed the surrogate recovery criteria high for EW7-PM22A-3-25 (280-137048-2). Refer to the QC report for details. Surrogate recovery for the following samples were outside control limits: EW7-PM21A-3-25 (280-137048-1) and EW7-PM22A-3-25 (280-137048-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed. Surrogate recovered within %R limit in the confirmation instrument.

A MNX LCSD was not extracted in the batch.

The %RPD between the primary and confirmation column exceeded 40% for for the following sample: EW7-PM21A-3-25 (280-137048-1). The results from both columns has been reported and qualified in accordance with the laboratory's QAS.

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

ALKALINITY

Samples EW7-PM21A-3-25 (280-137048-1) and EW7-PM22A-3-25 (280-137048-2) were analyzed for Alkalinity in accordance with SM20 2320B. The samples were analyzed on 06/02/2020.

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

AMMONIA

Samples EW7-PM21A-3-25 (280-137048-1) and EW7-PM22A-3-25 (280-137048-2) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 06/02/2020.

Samples EW7-PM21A-3-25 (280-137048-1)[5X] and EW7-PM22A-3-25 (280-137048-2)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

TOTAL KJELDAHL NITROGEN

Samples EW7-PM21A-3-25 (280-137048-1) and EW7-PM22A-3-25 (280-137048-2) were analyzed for total kjeldahl nitrogen in accordance with EPA Method 351.2. The samples were prepared on 06/02/2020 and analyzed on 06/04/2020.

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

NITRATE-NITRITE AS NITROGEN

Samples EW7-PM21A-3-25 (280-137048-1) and EW7-PM22A-3-25 (280-137048-2) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 06/01/2020.

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

SULFIDE

Samples EW7-PM21A-3-25 (280-137048-1) and EW7-PM22A-3-25 (280-137048-2) were analyzed for sulfide in accordance with EPA SW-846 Method 9034. The samples were prepared and analyzed on 06/02/2020.

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

ANIONS (28 DAYS)

Samples EW7-PM21A-3-25 (280-137048-1) and EW7-PM22A-3-25 (280-137048-2) were analyzed for anions (28 days) in accordance with 9056A. The samples were analyzed on 05/30/2020.

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

DISSOLVED ORGANIC CARBON

Samples EW7-PM21A-3-25 (280-137048-1) and EW7-PM22A-3-25 (280-137048-2) were analyzed for dissolved organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 06/09/2020 and 06/12/2020.

Sample EW7-PM22A-3-25 (280-137048-2)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Detection Summary

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137048-1

Client Sample ID: EW7-PM21A-3-25

Lab Sample ID: 280-137048-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Methane	4.7	J1	0.0050	0.0020	0.00063	mg/L	1		RSK-175	Total/NA
1,3,5-Trinitrobenzene	6.6	M Q	0.23	0.22	0.091	ug/L	1		8330A	Total/NA
2,4,6-Trinitrotoluene	11	M Q	0.12	0.11	0.048	ug/L	1		8330A	Total/NA
2,4-Dinitrotoluene	0.44	J1 M Q	0.11	0.086	0.030	ug/L	1		8330A	Total/NA
2,4-Dinitrotoluene	0.084	J J1	0.11	0.086	0.030	ug/L	1		8330A	Total/NA
2-Amino-4,6-dinitrotoluene	2.1	M Q	0.12	0.11	0.055	ug/L	1		8330A	Total/NA
4-Nitrotoluene	0.53	M Q	0.44	0.43	0.11	ug/L	1		8330A	Total/NA
RDX	7.3	J1 M Q	0.23	0.22	0.055	ug/L	1		8330A	Total/NA
RDX	0.64	J1	0.23	0.22	0.055	ug/L	1		8330A	Total/NA
Ammonia	0.80		0.50	0.25	0.11	mg/L	5		350.1	Total/NA
Nitrogen, Total Kjeldahl	1.8		1.0	1.0	0.69	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	8.0		0.10	0.050	0.019	mg/L	1		353.2	Total/NA
Sulfate	49		5.0	3.0	1.0	mg/L	1		9056A	Total/NA
Total Alkalinity as CaCO ₃	390		10	10	3.1	mg/L	1		SM 2320B	Total/NA
Dissolved Organic Carbon - Quad	11		1.0	1.0	0.35	mg/L	1		9060A	Dissolved

Client Sample ID: EW7-PM22A-3-25

Lab Sample ID: 280-137048-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Methane	13	D	0.015	0.0060	0.0019	mg/L	3		RSK-175	Total/NA
Nitrobenzene	0.97	M Q	0.22	0.21	0.097	ug/L	1		8330A	Total/NA
Ammonia	2.3		1.0	0.50	0.22	mg/L	10		350.1	Total/NA
Nitrogen, Total Kjeldahl	7.5		2.5	2.5	1.7	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	5.4		0.10	0.050	0.019	mg/L	1		353.2	Total/NA
Sulfate	30		5.0	3.0	1.0	mg/L	1		9056A	Total/NA
Total Alkalinity as CaCO ₃	470		10	10	3.1	mg/L	1		SM 2320B	Total/NA
Dissolved Organic Carbon - Quad	68		2.0	2.0	0.69	mg/L	2		9060A	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Client Sample Results

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137048-1

Client Sample ID: EW7-PM21A-3-25

Lab Sample ID: 280-137048-1

Date Collected: 05/28/20 10:45

Matrix: Water

Date Received: 05/29/20 09:35

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methane	4.7	J1	0.0050	0.0020	0.00063	mg/L		06/01/20 15:31	1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	6.6	M Q	0.23	0.22	0.091	ug/L		06/12/20 03:14	1
1,3-Dinitrobenzene	0.11	U M Q	0.12	0.11	0.040	ug/L		06/12/20 03:14	1
2,4,6-Trinitrotoluene	11	M Q	0.12	0.11	0.048	ug/L		06/12/20 03:14	1
2,4-Dinitrotoluene	0.44	J1 M Q	0.11	0.086	0.030	ug/L		06/12/20 03:14	1
2,4-Dinitrotoluene	0.084	J J1	0.11	0.086	0.030	ug/L		06/13/20 05:32	1
2,6-Dinitrotoluene	0.086	U Q	0.11	0.086	0.043	ug/L		06/12/20 03:14	1
2-Amino-4,6-dinitrotoluene	2.1	M Q	0.12	0.11	0.055	ug/L		06/12/20 03:14	1
2-Nitrotoluene	0.22	U M Q	0.23	0.22	0.092	ug/L		06/12/20 03:14	1
3-Nitrotoluene	0.43	U Q	0.43	0.43	0.21	ug/L		06/12/20 03:14	1
4-Amino-2,6-dinitrotoluene	0.13	U Q	0.16	0.13	0.062	ug/L		06/12/20 03:14	1
4-Nitrotoluene	0.53	M Q	0.44	0.43	0.11	ug/L		06/12/20 03:14	1
HMX	0.22	U Q	0.23	0.22	0.094	ug/L		06/12/20 03:14	1
MNX	0.43	U	2.2	0.43	0.17	ug/L		06/13/20 05:32	1
Nitrobenzene	0.22	U M Q	0.23	0.22	0.098	ug/L		06/12/20 03:14	1
RDX	7.3	J1 M Q	0.23	0.22	0.055	ug/L		06/12/20 03:14	1
RDX	0.64	J1	0.23	0.22	0.055	ug/L		06/13/20 05:32	1
Tetryl	0.11	U M Q	0.12	0.11	0.034	ug/L		06/12/20 03:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	158	M Q	83 - 119	06/01/20 10:20	06/12/20 03:14	1
1,2-Dinitrobenzene	100		83 - 119	06/01/20 10:20	06/13/20 05:32	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ammonia	0.80		0.50	0.25	0.11	mg/L		06/02/20 11:40	5
Nitrogen, Total Kjeldahl	1.8		1.0	1.0	0.69	mg/L		06/04/20 17:15	1
Nitrate Nitrite as N	8.0		0.10	0.050	0.019	mg/L		06/01/20 18:48	1
Sulfide	1.9	U	4.0	1.9	0.79	mg/L		06/02/20 10:59	1
Sulfate	49		5.0	3.0	1.0	mg/L		05/30/20 16:05	1
Total Alkalinity as CaCO3	390		10	10	3.1	mg/L		06/02/20 10:31	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Dissolved Organic Carbon - Quad	11		1.0	1.0	0.35	mg/L		06/09/20 21:12	1

Client Sample ID: EW7-PM22A-3-25

Lab Sample ID: 280-137048-2

Date Collected: 05/28/20 12:25

Matrix: Water

Date Received: 05/29/20 09:35

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methane	13	D	0.015	0.0060	0.0019	mg/L		06/03/20 16:34	3

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.21	U M Q	0.22	0.21	0.090	ug/L		06/12/20 03:37	1
1,3-Dinitrobenzene	0.11	U M Q	0.12	0.11	0.040	ug/L		06/12/20 03:37	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137048-1

Client Sample ID: EW7-PM22A-3-25

Lab Sample ID: 280-137048-2

Date Collected: 05/28/20 12:25

Matrix: Water

Date Received: 05/29/20 09:35

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2,4,6-Trinitrotoluene	0.11	U Q	0.12	0.11	0.048	ug/L		06/12/20 03:37	1
2,4-Dinitrotoluene	0.086	U	0.11	0.086	0.029	ug/L		06/13/20 06:07	1
2,6-Dinitrotoluene	0.086	U M Q	0.11	0.086	0.043	ug/L		06/12/20 03:37	1
2-Amino-4,6-dinitrotoluene	0.11	U Q	0.12	0.11	0.054	ug/L		06/12/20 03:37	1
2-Nitrotoluene	0.21	U Q	0.22	0.21	0.092	ug/L		06/12/20 03:37	1
3-Nitrotoluene	0.43	U Q	0.43	0.43	0.21	ug/L		06/12/20 03:37	1
4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.062	ug/L		06/13/20 06:07	1
4-Nitrotoluene	0.43	U M Q	0.44	0.43	0.11	ug/L		06/12/20 03:37	1
HMX	0.21	U	0.22	0.21	0.094	ug/L		06/13/20 06:07	1
MXN	0.43	U M	2.1	0.43	0.16	ug/L		06/12/20 03:37	1
Nitrobenzene	0.97	M Q	0.22	0.21	0.097	ug/L		06/12/20 03:37	1
RDX	0.21	U M Q	0.22	0.21	0.055	ug/L		06/12/20 03:37	1
Tetryl	0.11	U M Q	0.12	0.11	0.034	ug/L		06/12/20 03:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	305	M Q	83 - 119	06/01/20 10:20	06/12/20 03:37	1
1,2-Dinitrobenzene	103	M	83 - 119	06/01/20 10:20	06/13/20 06:07	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ammonia	2.3		1.0	0.50	0.22	mg/L		06/02/20 11:54	10
Nitrogen, Total Kjeldahl	7.5		2.5	2.5	1.7	mg/L		06/04/20 17:20	1
Nitrate Nitrite as N	5.4		0.10	0.050	0.019	mg/L		06/01/20 19:02	1
Sulfide	1.9	U	4.0	1.9	0.79	mg/L		06/02/20 10:59	1
Sulfate	30		5.0	3.0	1.0	mg/L		05/30/20 16:23	1
Total Alkalinity as CaCO3	470		10	10	3.1	mg/L		06/02/20 10:39	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Dissolved Organic Carbon - Quad	68		2.0	2.0	0.69	mg/L		06/12/20 01:24	2

Default Detection Limits

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137048-1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	LOQ	DL	Units
Methane	0.0050	0.00063	mg/L

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Prep: 3535

Analyte	LOQ	DL	Units
1,3,5-Trinitrobenzene	0.21	0.084	ug/L
1,3-Dinitrobenzene	0.11	0.037	ug/L
2,4,6-Trinitrotoluene	0.11	0.045	ug/L
2,4-Dinitrotoluene	0.10	0.027	ug/L
2,6-Dinitrotoluene	0.10	0.040	ug/L
2-Amino-4,6-dinitrotoluene	0.11	0.051	ug/L
2-Nitrotoluene	0.21	0.086	ug/L
3-Nitrotoluene	0.40	0.20	ug/L
4-Amino-2,6-dinitrotoluene	0.15	0.058	ug/L
4-Nitrotoluene	0.41	0.10	ug/L
HMX	0.21	0.088	ug/L
MNX	2.0	0.15	ug/L
Nitrobenzene	0.21	0.091	ug/L
RDX	0.21	0.052	ug/L
Tetryl	0.11	0.032	ug/L

General Chemistry

Analyte	LOQ	DL	Units
Ammonia	0.10	0.022	mg/L
Nitrate Nitrite as N	0.10	0.019	mg/L
Sulfate	5.0	1.0	mg/L
Total Alkalinity as CaCO3	10	3.1	mg/L

General Chemistry

Prep: 351.2

Analyte	LOQ	DL	Units
Nitrogen, Total Kjeldahl	1.0	0.69	mg/L

General Chemistry

Prep: 9030B

Analyte	LOQ	DL	Units
Sulfide	4.0	0.79	mg/L

General Chemistry - Dissolved

Analyte	LOQ	DL	Units
Dissolved Organic Carbon - Quad	1.0	0.35	mg/L

Surrogate Summary

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137048-1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DNB1 (83-119)
280-137048-1	EW7-PM21A-3-25	158 M Q
280-137048-2	EW7-PM22A-3-25	305 M Q
LCS 280-496861/2-A	Lab Control Sample	95
LCS 280-496861/4-A	Lab Control Sample	95
LCSD 280-496861/3-A	Lab Control Sample Dup	96
MB 280-496861/1-A	Method Blank	94

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DNB2 (83-119)
280-137048-1	EW7-PM21A-3-25	100
280-137048-2	EW7-PM22A-3-25	103 M

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

QC Sample Results

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137048-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 280-496925/7

Matrix: Water

Analysis Batch: 496925

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methane	0.0020	U	0.0050	0.0020	0.00063	mg/L		06/01/20 14:02	1

Lab Sample ID: LCS 280-496925/34

Matrix: Water

Analysis Batch: 496925

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	0.0730	0.0820		mg/L		112	73 - 125

Lab Sample ID: LCSD 280-496925/35

Matrix: Water

Analysis Batch: 496925

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
Methane	0.0730	0.0799		mg/L		109	73 - 125	3	20

Lab Sample ID: 280-137048-1 MS

Matrix: Water

Analysis Batch: 496925

Client Sample ID: EW7-PM21A-3-25

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	4.7	J1	0.0730	6.13	4	mg/L		2000	73 - 125

Lab Sample ID: 280-137048-1 MSD

Matrix: Water

Analysis Batch: 496925

Client Sample ID: EW7-PM21A-3-25

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane	4.7	J1	0.0730	5.71	4	mg/L		1420	73 - 125	7	20

Lab Sample ID: 280-137048-1 DU

Matrix: Water

Analysis Batch: 496925

Client Sample ID: EW7-PM21A-3-25

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Methane	4.7	J1	5.31		mg/L		13	20

Lab Sample ID: MB 280-497247/34

Matrix: Water

Analysis Batch: 497247

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methane	0.0020	U	0.0050	0.0020	0.00063	mg/L		06/03/20 15:12	1

Lab Sample ID: MB 280-497247/7

Matrix: Water

Analysis Batch: 497247

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methane	0.0020	U	0.0050	0.0020	0.00063	mg/L		06/03/20 11:52	1

Eurofins TestAmerica, Denver

QC Sample Results

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137048-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: LCS 280-497247/33

Matrix: Water

Analysis Batch: 497247

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	0.0730	0.0705		mg/L		97	73 - 125

Lab Sample ID: LCSD 280-497247/35

Matrix: Water

Analysis Batch: 497247

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
Methane	0.0730	0.0704		mg/L		96	73 - 125	0	20

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-496861/1-A

Matrix: Water

Analysis Batch: 498536

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 496861

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		06/12/20 14:35	1
1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037	ug/L		06/12/20 14:35	1
2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045	ug/L		06/12/20 14:35	1
2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027	ug/L		06/12/20 14:35	1
2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040	ug/L		06/12/20 14:35	1
2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051	ug/L		06/12/20 14:35	1
2-Nitrotoluene	0.20	U	0.21	0.20	0.086	ug/L		06/12/20 14:35	1
3-Nitrotoluene	0.40	U	0.40	0.40	0.20	ug/L		06/12/20 14:35	1
4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058	ug/L		06/12/20 14:35	1
4-Nitrotoluene	0.40	U	0.41	0.40	0.10	ug/L		06/12/20 14:35	1
HMX	0.20	U	0.21	0.20	0.088	ug/L		06/12/20 14:35	1
MNX	0.40	U M	2.0	0.40	0.15	ug/L		06/12/20 14:35	1
Nitrobenzene	0.20	U	0.21	0.20	0.091	ug/L		06/12/20 14:35	1
RDX	0.20	U	0.21	0.20	0.052	ug/L		06/12/20 14:35	1
Tetryl	0.10	U	0.11	0.10	0.032	ug/L		06/12/20 14:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	94		83 - 119	06/01/20 10:20	06/12/20 14:35	1

Lab Sample ID: LCS 280-496861/2-A

Matrix: Water

Analysis Batch: 498360

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 496861

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trinitrobenzene	2.00	2.11		ug/L		105	73 - 125
1,3-Dinitrobenzene	2.00	2.00		ug/L		100	78 - 120
2,4,6-Trinitrotoluene	2.00	2.09		ug/L		105	71 - 123
2,4-Dinitrotoluene	2.00	1.85		ug/L		93	78 - 120
2,6-Dinitrotoluene	2.00	2.03		ug/L		101	77 - 127
2-Amino-4,6-dinitrotoluene	2.00	1.81		ug/L		90	79 - 120
2-Nitrotoluene	2.00	1.62		ug/L		81	70 - 127
3-Nitrotoluene	2.00	1.80		ug/L		90	73 - 125
4-Amino-2,6-dinitrotoluene	2.00	1.68		ug/L		84	76 - 125

Eurofins TestAmerica, Denver

QC Sample Results

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137048-1

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

Lab Sample ID: LCS 280-496861/2-A

Matrix: Water

Analysis Batch: 498360

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 496861

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitrotoluene	2.00	1.58		ug/L		79	71 - 127
HMX	2.00	2.00		ug/L		100	65 - 135
Nitrobenzene	2.00	1.88		ug/L		94	65 - 134
RDX	2.00	1.96		ug/L		98	68 - 130
Tetryl	2.00	1.90		ug/L		95	64 - 128

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

Lab Sample ID: LCS 280-496861/4-A

Matrix: Water

Analysis Batch: 498360

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 496861

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
MXN	2.33	2.11	M	ug/L		91	57 - 132

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

Lab Sample ID: LCSD 280-496861/3-A

Matrix: Water

Analysis Batch: 498360

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 496861

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trinitrobenzene	2.00	2.18		ug/L		109	73 - 125	3	30
1,3-Dinitrobenzene	2.00	2.05		ug/L		103	78 - 120	3	30
2,4,6-Trinitrotoluene	2.00	2.11		ug/L		106	71 - 123	1	30
2,4-Dinitrotoluene	2.00	1.93		ug/L		96	78 - 120	4	30
2,6-Dinitrotoluene	2.00	2.03		ug/L		101	77 - 127	0	30
2-Amino-4,6-dinitrotoluene	2.00	1.91		ug/L		95	79 - 120	6	30
2-Nitrotoluene	2.00	1.74		ug/L		87	70 - 127	7	30
3-Nitrotoluene	2.00	1.94		ug/L		97	73 - 125	7	30
4-Amino-2,6-dinitrotoluene	2.00	1.75		ug/L		88	76 - 125	4	30
4-Nitrotoluene	2.00	1.83		ug/L		92	71 - 127	15	30
HMX	2.00	2.03	M	ug/L		102	65 - 135	2	30
Nitrobenzene	2.00	1.97		ug/L		99	65 - 134	5	30
RDX	2.00	2.03		ug/L		102	68 - 130	4	30
Tetryl	2.00	1.96		ug/L		98	64 - 128	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dinitrobenzene	96		83 - 119

QC Sample Results

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137048-1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-497078/20
Matrix: Water
Analysis Batch: 497078

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ammonia	0.050	U	0.10	0.050	0.022	mg/L		06/02/20 11:14	1

Lab Sample ID: LCS 280-497078/18
Matrix: Water
Analysis Batch: 497078

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.50	2.51		mg/L		101	90 - 110

Lab Sample ID: LCSD 280-497078/19
Matrix: Water
Analysis Batch: 497078

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
Ammonia	2.50	2.48		mg/L		99	90 - 110	1	10

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 280-497115/2-A
Matrix: Water
Analysis Batch: 497506

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 497115

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrogen, Total Kjeldahl	1.0	U	1.0	1.0	0.69	mg/L		06/04/20 16:49	1

Lab Sample ID: LCS 280-497115/1-A
Matrix: Water
Analysis Batch: 497506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 497115

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Total Kjeldahl	6.00	6.06		mg/L		101	90 - 110

Lab Sample ID: 280-137048-1 MS
Matrix: Water
Analysis Batch: 497506

Client Sample ID: EW7-PM21A-3-25
Prep Type: Total/NA
Prep Batch: 497115

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Total Kjeldahl	1.8		3.00	4.64		mg/L		95	90 - 110

Lab Sample ID: 280-137048-1 MSD
Matrix: Water
Analysis Batch: 497506

Client Sample ID: EW7-PM21A-3-25
Prep Type: Total/NA
Prep Batch: 497115

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Total Kjeldahl	1.8		3.00	4.60		mg/L		93	90 - 110	1	25

QC Sample Results

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137048-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-496971/60
Matrix: Water
Analysis Batch: 496971

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.050	U	0.10	0.050	0.019	mg/L		06/01/20 18:40	1

Lab Sample ID: LCS 280-496971/59
Matrix: Water
Analysis Batch: 496971

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	5.00	4.97		mg/L		99	90 - 110

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

Lab Sample ID: MB 280-497037/2-A
Matrix: Water
Analysis Batch: 497042

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 497037

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide	1.9	U	4.0	1.9	0.79	mg/L		06/02/20 10:59	1

Lab Sample ID: LCS 280-497037/1-A
Matrix: Water
Analysis Batch: 497042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 497037

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	18.2	12.0		mg/L		66	44 - 110

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 280-496694/45
Matrix: Water
Analysis Batch: 496694

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	3.0	U	5.0	3.0	1.0	mg/L		05/30/20 02:07	1

Lab Sample ID: LCS 280-496694/43
Matrix: Water
Analysis Batch: 496694

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	100	99.4		mg/L		99	87 - 112

Lab Sample ID: LCSD 280-496694/44
Matrix: Water
Analysis Batch: 496694

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	100	99.0		mg/L		99	87 - 112	0	10

QC Sample Results

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137048-1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 280-496694/3

Matrix: Water

Analysis Batch: 496694

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.23	J	mg/L		85	50 - 150

Method: 9060A - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 280-498065/3-A

Matrix: Water

Analysis Batch: 498213

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Dissolved Organic Carbon - Quad	1.0	U	1.0	1.0	0.35	mg/L		06/09/20 18:50	1

Lab Sample ID: LCS 280-498065/1-A

Matrix: Water

Analysis Batch: 498213

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon - Quad	25.0	26.8		mg/L		107	88 - 112

Lab Sample ID: LCSD 280-498065/2-A

Matrix: Water

Analysis Batch: 498213

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Organic Carbon - Quad	25.0	27.4		mg/L		109	88 - 112	2	15

Lab Sample ID: MB 280-498352/3-A

Matrix: Water

Analysis Batch: 498580

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Dissolved Organic Carbon - Quad	1.0	U	1.0	1.0	0.35	mg/L		06/11/20 20:06	1

Lab Sample ID: LCS 280-498352/1-A

Matrix: Water

Analysis Batch: 498580

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon - Quad	25.0	25.8		mg/L		103	88 - 112

Lab Sample ID: LCSD 280-498352/2-A

Matrix: Water

Analysis Batch: 498580

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Organic Carbon - Quad	25.0	25.7		mg/L		103	88 - 112	0	15

QC Sample Results

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137048-1

Method: 9060A - Organic Carbon, Dissolved (DOC) (Continued)

Lab Sample ID: 280-137048-D-1-C MS

Matrix: Water

Analysis Batch: 498580

Client Sample ID: 280-137048-D-1-C MS

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon - Quad	10		25.0	35.4		mg/L		101	88 - 112

Lab Sample ID: 280-137048-D-1-D MSD

Matrix: Water

Analysis Batch: 498580

Client Sample ID: 280-137048-D-1-D MSD

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Organic Carbon - Quad	10		25.0	34.8		mg/L		99	88 - 112	2	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-497060/5

Matrix: Water

Analysis Batch: 497060

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3	10	U	10	10	3.1	mg/L		06/02/20 09:18	1

Lab Sample ID: LCS 280-497060/4

Matrix: Water

Analysis Batch: 497060

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3	200	206		mg/L		103	89 - 109

QC Association Summary

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137048-1

GC VOA

Analysis Batch: 496925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137048-1	EW7-PM21A-3-25	Total/NA	Water	RSK-175	
MB 280-496925/7	Method Blank	Total/NA	Water	RSK-175	
LCS 280-496925/34	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 280-496925/35	Lab Control Sample Dup	Total/NA	Water	RSK-175	
280-137048-1 MS	EW7-PM21A-3-25	Total/NA	Water	RSK-175	
280-137048-1 MSD	EW7-PM21A-3-25	Total/NA	Water	RSK-175	
280-137048-1 DU	EW7-PM21A-3-25	Total/NA	Water	RSK-175	

Analysis Batch: 497247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137048-2	EW7-PM22A-3-25	Total/NA	Water	RSK-175	
MB 280-497247/34	Method Blank	Total/NA	Water	RSK-175	
MB 280-497247/7	Method Blank	Total/NA	Water	RSK-175	
LCS 280-497247/33	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 280-497247/35	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Prep Batch: 496861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137048-1	EW7-PM21A-3-25	Total/NA	Water	3535	
280-137048-2	EW7-PM22A-3-25	Total/NA	Water	3535	
MB 280-496861/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-496861/2-A	Lab Control Sample	Total/NA	Water	3535	
LCS 280-496861/4-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 280-496861/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 498360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137048-1	EW7-PM21A-3-25	Total/NA	Water	8330A	496861
280-137048-2	EW7-PM22A-3-25	Total/NA	Water	8330A	496861
LCS 280-496861/2-A	Lab Control Sample	Total/NA	Water	8330A	496861
LCS 280-496861/4-A	Lab Control Sample	Total/NA	Water	8330A	496861
LCSD 280-496861/3-A	Lab Control Sample Dup	Total/NA	Water	8330A	496861

Analysis Batch: 498536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-496861/1-A	Method Blank	Total/NA	Water	8330A	496861

Analysis Batch: 498568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137048-1	EW7-PM21A-3-25	Total/NA	Water	8330A	496861
280-137048-2	EW7-PM22A-3-25	Total/NA	Water	8330A	496861

General Chemistry

Analysis Batch: 496694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137048-1	EW7-PM21A-3-25	Total/NA	Water	9056A	
280-137048-2	EW7-PM22A-3-25	Total/NA	Water	9056A	
MB 280-496694/45	Method Blank	Total/NA	Water	9056A	
LCS 280-496694/43	Lab Control Sample	Total/NA	Water	9056A	

QC Association Summary

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137048-1

General Chemistry (Continued)

Analysis Batch: 496694 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 280-496694/44	Lab Control Sample Dup	Total/NA	Water	9056A	
MRL 280-496694/3	Lab Control Sample	Total/NA	Water	9056A	

Analysis Batch: 496971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137048-1	EW7-PM21A-3-25	Total/NA	Water	353.2	
280-137048-2	EW7-PM22A-3-25	Total/NA	Water	353.2	
MB 280-496971/60	Method Blank	Total/NA	Water	353.2	
LCS 280-496971/59	Lab Control Sample	Total/NA	Water	353.2	

Prep Batch: 497037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137048-1	EW7-PM21A-3-25	Total/NA	Water	9030B	
280-137048-2	EW7-PM22A-3-25	Total/NA	Water	9030B	
MB 280-497037/2-A	Method Blank	Total/NA	Water	9030B	
LCS 280-497037/1-A	Lab Control Sample	Total/NA	Water	9030B	

Analysis Batch: 497042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137048-1	EW7-PM21A-3-25	Total/NA	Water	9034	497037
280-137048-2	EW7-PM22A-3-25	Total/NA	Water	9034	497037
MB 280-497037/2-A	Method Blank	Total/NA	Water	9034	497037
LCS 280-497037/1-A	Lab Control Sample	Total/NA	Water	9034	497037

Analysis Batch: 497060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137048-1	EW7-PM21A-3-25	Total/NA	Water	SM 2320B	
280-137048-2	EW7-PM22A-3-25	Total/NA	Water	SM 2320B	
MB 280-497060/5	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-497060/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 497078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137048-1	EW7-PM21A-3-25	Total/NA	Water	350.1	
280-137048-2	EW7-PM22A-3-25	Total/NA	Water	350.1	
MB 280-497078/20	Method Blank	Total/NA	Water	350.1	
LCS 280-497078/18	Lab Control Sample	Total/NA	Water	350.1	
LCSD 280-497078/19	Lab Control Sample Dup	Total/NA	Water	350.1	

Prep Batch: 497115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137048-1	EW7-PM21A-3-25	Total/NA	Water	351.2	
280-137048-2	EW7-PM22A-3-25	Total/NA	Water	351.2	
MB 280-497115/2-A	Method Blank	Total/NA	Water	351.2	
LCS 280-497115/1-A	Lab Control Sample	Total/NA	Water	351.2	
280-137048-1 MS	EW7-PM21A-3-25	Total/NA	Water	351.2	
280-137048-1 MSD	EW7-PM21A-3-25	Total/NA	Water	351.2	

Analysis Batch: 497506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137048-1	EW7-PM21A-3-25	Total/NA	Water	351.2	497115

QC Association Summary

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137048-1

General Chemistry (Continued)

Analysis Batch: 497506 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137048-2	EW7-PM22A-3-25	Total/NA	Water	351.2	497115
MB 280-497115/2-A	Method Blank	Total/NA	Water	351.2	497115
LCS 280-497115/1-A	Lab Control Sample	Total/NA	Water	351.2	497115
280-137048-1 MS	EW7-PM21A-3-25	Total/NA	Water	351.2	497115
280-137048-1 MSD	EW7-PM21A-3-25	Total/NA	Water	351.2	497115

Filtration Batch: 498065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137048-1	EW7-PM21A-3-25	Dissolved	Water	FILTRATION	
MB 280-498065/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-498065/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-498065/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	

Analysis Batch: 498213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137048-1	EW7-PM21A-3-25	Dissolved	Water	9060A	498065
MB 280-498065/3-A	Method Blank	Dissolved	Water	9060A	498065
LCS 280-498065/1-A	Lab Control Sample	Dissolved	Water	9060A	498065
LCSD 280-498065/2-A	Lab Control Sample Dup	Dissolved	Water	9060A	498065

Filtration Batch: 498352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137048-2	EW7-PM22A-3-25	Dissolved	Water	FILTRATION	
MB 280-498352/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-498352/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-498352/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-137048-D-1-C MS	280-137048-D-1-C MS	Dissolved	Water	FILTRATION	
280-137048-D-1-D MSD	280-137048-D-1-D MSD	Dissolved	Water	FILTRATION	

Analysis Batch: 498580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137048-2	EW7-PM22A-3-25	Dissolved	Water	9060A	498352
MB 280-498352/3-A	Method Blank	Dissolved	Water	9060A	498352
LCS 280-498352/1-A	Lab Control Sample	Dissolved	Water	9060A	498352
LCSD 280-498352/2-A	Lab Control Sample Dup	Dissolved	Water	9060A	498352
280-137048-D-1-C MS	280-137048-D-1-C MS	Dissolved	Water	9060A	498352
280-137048-D-1-D MSD	280-137048-D-1-D MSD	Dissolved	Water	9060A	498352

Lab Chronicle

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137048-1

Client Sample ID: EW7-PM21A-3-25

Lab Sample ID: 280-137048-1

Date Collected: 05/28/20 10:45

Matrix: Water

Date Received: 05/29/20 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	496925	06/01/20 15:31	CAS	TAL DEN
Total/NA	Prep	3535			464.2 mL	5 mL	496861	06/01/20 10:20	MLA	TAL DEN
Total/NA	Analysis	8330A		1			498568	06/13/20 05:32	JZ	TAL DEN
Total/NA	Prep	3535			464.2 mL	5 mL	496861	06/01/20 10:20	MLA	TAL DEN
Total/NA	Analysis	8330A		1			498360	06/12/20 03:14	JZ	TAL DEN
Total/NA	Analysis	350.1		5	10 mL	10 mL	497078	06/02/20 11:40	BWH	TAL DEN
Total/NA	Prep	351.2			25 mL	25 mL	497115	06/02/20 16:26	SVC	TAL DEN
Total/NA	Analysis	351.2		1			497506	06/04/20 17:15	SVC	TAL DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	496971	06/01/20 18:48	SVC	TAL DEN
Total/NA	Prep	9030B			50 mL	50 mL	497037	06/02/20 10:53	AAD	TAL DEN
Total/NA	Analysis	9034		1			497042	06/02/20 10:59	AAD	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	496694	05/30/20 16:05	JAP	TAL DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	498065	06/09/20 14:06	JMB	TAL DEN
Dissolved	Analysis	9060A		1	20 mL	20 mL	498213	06/09/20 21:12	JMB	TAL DEN
Total/NA	Analysis	SM 2320B		1			497060	06/02/20 10:31	SPG	TAL DEN

Client Sample ID: EW7-PM22A-3-25

Lab Sample ID: 280-137048-2

Date Collected: 05/28/20 12:25

Matrix: Water

Date Received: 05/29/20 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		3	18 mL	18 mL	497247	06/03/20 16:34	CAS	TAL DEN
Total/NA	Prep	3535			467 mL	5 mL	496861	06/01/20 10:20	MLA	TAL DEN
Total/NA	Analysis	8330A		1			498568	06/13/20 06:07	JZ	TAL DEN
Total/NA	Prep	3535			467 mL	5 mL	496861	06/01/20 10:20	MLA	TAL DEN
Total/NA	Analysis	8330A		1			498360	06/12/20 03:37	JZ	TAL DEN
Total/NA	Analysis	350.1		10	10 mL	10 mL	497078	06/02/20 11:54	BWH	TAL DEN
Total/NA	Prep	351.2			10 mL	25 mL	497115	06/02/20 16:26	SVC	TAL DEN
Total/NA	Analysis	351.2		1			497506	06/04/20 17:20	SVC	TAL DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	496971	06/01/20 19:02	SVC	TAL DEN
Total/NA	Prep	9030B			50 mL	50 mL	497037	06/02/20 10:53	AAD	TAL DEN
Total/NA	Analysis	9034		1			497042	06/02/20 10:59	AAD	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	496694	05/30/20 16:23	JAP	TAL DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	498352	06/11/20 11:10	SPG	TAL DEN
Dissolved	Analysis	9060A		2	20 mL	20 mL	498580	06/12/20 01:24	JMB	TAL DEN
Total/NA	Analysis	SM 2320B		1			497060	06/02/20 10:39	SPG	TAL DEN

Laboratory References:

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

Accreditation/Certification Summary

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137048-1

Laboratory: Eurofins TestAmerica, Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-21

Method Summary

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137048-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL DEN
8330A	Nitroaromatics and Nitramines (HPLC)	EPA	TAL DEN
350.1	Nitrogen, Ammonia	MCAWW	TAL DEN
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL DEN
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL DEN
9034	Sulfide, Acid Soluble and Insoluble (Titrimetric)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	TAL DEN
9060A	Organic Carbon, Dissolved (DOC)	SW846	TAL DEN
SM 2320B	Alkalinity	SM	TAL DEN
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL DEN
3535	Solid-Phase Extraction (SPE)	SW846	TAL DEN
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	TAL DEN
FILTRATION	Sample Filtration	None	TAL DEN

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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:

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

Sample Summary

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137048-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
280-137048-1	EW7-PM21A-3-25	Water	05/28/20 10:45	05/29/20 09:35	
280-137048-2	EW7-PM22A-3-25	Water	05/28/20 12:25	05/29/20 09:35	

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: VGC_J Analysis Batch Number: 495152Lab Sample ID: IC 280-495152/6 Client Sample ID: _____Date Analyzed: 05/16/20 10:57 Lab File ID: 001F0101.D GC Column: Rt-Alumina KC ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethane	1.51	Peak not integrated	meierg	05/17/20 06:37

Lab Sample ID: IC 280-495152/6 Client Sample ID: _____Date Analyzed: 05/16/20 10:57 Lab File ID: 001F0101.D GC Column: HP-Plot Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	4.14	Shouldering	meierg	05/17/20 07:19
Ethane	4.31	Peak not integrated	meierg	05/17/20 06:37

Lab Sample ID: IC 280-495152/7 Client Sample ID: _____Date Analyzed: 05/16/20 11:13 Lab File ID: 001F0201.D GC Column: Rt-Alumina KC ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	4.04	Peak not integrated	meierg	05/17/20 06:43

Lab Sample ID: IC 280-495152/7 Client Sample ID: _____Date Analyzed: 05/16/20 11:13 Lab File ID: 001F0201.D GC Column: HP-Plot Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylene	4.03	Shouldering	meierg	05/17/20 06:43
Acetylene	4.14	Peak not integrated	meierg	05/17/20 06:43

Lab Sample ID: IC 280-495152/8 Client Sample ID: _____Date Analyzed: 05/16/20 11:30 Lab File ID: 002F0301.D GC Column: Rt-Alumina KC ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	4.04	Peak not integrated	meierg	05/17/20 06:45

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: VGC_J Analysis Batch Number: 495152Lab Sample ID: IC 280-495152/8 Client Sample ID: _____Date Analyzed: 05/16/20 11:30 Lab File ID: 002F0301.D GC Column: HP-Plot Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylene	4.03	Shouldering	meierg	05/17/20 06:44
Acetylene	4.14	Peak not integrated	meierg	05/17/20 06:45

Lab Sample ID: IC 280-495152/9 Client Sample ID: _____Date Analyzed: 05/16/20 11:46 Lab File ID: 003F0401.D GC Column: HP-Plot Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	4.14	Shouldering	meierg	05/17/20 06:46

Lab Sample ID: ICRT 280-495152/10 Client Sample ID: _____Date Analyzed: 05/16/20 12:02 Lab File ID: 004F0501.D GC Column: Rt-Alumina KC ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	4.02	Peak not integrated	meierg	05/17/20 07:07

Lab Sample ID: ICRT 280-495152/10 Client Sample ID: _____Date Analyzed: 05/16/20 12:02 Lab File ID: 004F0501.D GC Column: HP-Plot Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylene	4.03	Shouldering	meierg	05/17/20 07:06
Acetylene	4.14	Peak not integrated	meierg	05/17/20 07:07

Lab Sample ID: IC 280-495152/11 Client Sample ID: _____Date Analyzed: 05/16/20 12:19 Lab File ID: 005F0601.D GC Column: HP-Plot Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	4.14	Shouldering	meierg	05/17/20 07:09

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: VGC_J Analysis Batch Number: 495152Lab Sample ID: IC 280-495152/12 Client Sample ID: _____Date Analyzed: 05/16/20 12:35 Lab File ID: 006F0701.D GC Column: HP-Plot Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	4.14	Shouldering	meierg	05/17/20 07:16

Lab Sample ID: ICV 280-495152/16 Client Sample ID: _____Date Analyzed: 05/16/20 13:25 Lab File ID: 010F1001.D GC Column: HP-Plot Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	4.14	Shouldering	meierg	05/17/20 07:28

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: VGC_J Analysis Batch Number: 496925Lab Sample ID: CCVRT 280-496925/4 Client Sample ID: _____Date Analyzed: 06/01/20 13:13 Lab File ID: A004F0401.D GC Column: Rt-Alumina KC ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	3.87	Wrong Peak	sciannac	06/01/20 13:29

Lab Sample ID: CCVRT 280-496925/4 Client Sample ID: _____Date Analyzed: 06/01/20 13:13 Lab File ID: A004F0401.D GC Column: HP-Plot Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylene	4.03	Wrong Peak	sciannac	06/01/20 13:30
Acetylene	4.13	Wrong Peak	sciannac	06/01/20 13:30
Ethane	4.30	Wrong Peak	sciannac	06/01/20 13:30

Lab Sample ID: CCV 280-496925/33 Client Sample ID: _____Date Analyzed: 06/01/20 14:42 Lab File ID: 010F0101.D GC Column: HP-Plot Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	4.14	Incomplete Integration	sciannac	06/01/20 15:21

Lab Sample ID: CCV 280-496925/36 Client Sample ID: _____Date Analyzed: 06/01/20 19:03 Lab File ID: 026F1701.D GC Column: HP-Plot Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	4.14	Split Peak	sciannac	06/02/20 08:22

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: VGC_J Analysis Batch Number: 497247Lab Sample ID: CCVRT 280-497247/4 Client Sample ID: _____Date Analyzed: 06/03/20 11:03 Lab File ID: 004F0401.D GC Column: Rt-Alumina KC ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	3.89	Split Peak	sciannac	06/03/20 12:47

Lab Sample ID: CCVRT 280-497247/4 Client Sample ID: _____Date Analyzed: 06/03/20 11:03 Lab File ID: 004F0401.D GC Column: HP-Plot Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylene	4.02	Split Peak	sciannac	06/03/20 12:47
Acetylene	4.13	Split Peak	sciannac	06/03/20 12:47

Lab Sample ID: CCV 280-497247/32 Client Sample ID: _____Date Analyzed: 06/03/20 14:24 Lab File ID: 008F0101.D GC Column: Rt-Alumina KC ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	1.27	Peak assignment corrected	sciannac	06/05/20 13:11
Acetylene	3.90	Split Peak	sciannac	06/05/20 13:12

Lab Sample ID: CCV 280-497247/32 Client Sample ID: _____Date Analyzed: 06/03/20 14:24 Lab File ID: 008F0101.D GC Column: HP-Plot Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	3.21	Peak assignment corrected	sciannac	06/05/20 13:11
Ethylene	4.05	Split Peak	sciannac	06/05/20 13:12
Acetylene	4.16	Split Peak	sciannac	06/05/20 13:12

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: VGC_J Analysis Batch Number: 497247Lab Sample ID: CCV 280-497247/21 Client Sample ID: _____Date Analyzed: 06/03/20 19:01 Lab File ID: 025F1801.D GC Column: Rt-Alumina KC ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	3.90	Peak not integrated	sciannac	06/05/20 13:49

Lab Sample ID: CCV 280-497247/21 Client Sample ID: _____Date Analyzed: 06/03/20 19:01 Lab File ID: 025F1801.D GC Column: HP-Plot Q ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	4.13	Peak not integrated	sciannac	06/05/20 13:50

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 494886Lab Sample ID: IC 280-494886/7 Client Sample ID: _____Date Analyzed: 05/14/20 16:16 Lab File ID: 05140007.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene	16.48	Split Peak	zhangji	05/14/20 17:09
4-Nitrotoluene	16.72	Split Peak	zhangji	05/14/20 17:09
4-Amino-2,6-dinitrotoluene	17.07	Split Peak	zhangji	05/14/20 17:08
3-Nitrotoluene	17.78	Split Peak	zhangji	05/14/20 17:08
2-Amino-4,6-dinitrotoluene	17.94	Split Peak	zhangji	05/14/20 17:08
1,3,5-Trinitrobenzene	18.83	Peak assignment corrected	zhangji	05/14/20 17:08
2,6-Dinitrotoluene	19.74	Peak assignment corrected	zhangji	05/14/20 17:08
2,4-Dinitrotoluene	20.24	Peak assignment corrected	zhangji	05/14/20 17:08
Tetryl	23.52	Peak assignment corrected	zhangji	05/14/20 17:08
2,4,6-Trinitrotoluene	24.62	Peak assignment corrected	zhangji	05/14/20 17:08

Lab Sample ID: IC 280-494886/8 Client Sample ID: _____Date Analyzed: 05/14/20 16:51 Lab File ID: 05140008.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	13.03	Baseline	zhangji	05/15/20 11:34

Lab Sample ID: IC 280-494886/9 Client Sample ID: _____Date Analyzed: 05/14/20 17:26 Lab File ID: 05140009.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	13.03	Baseline	zhangji	05/15/20 11:34

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 494886Lab Sample ID: IC 280-494886/10 Client Sample ID: _____Date Analyzed: 05/14/20 18:01 Lab File ID: 05140010.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	6.27	Peak assignment corrected	zhangji	05/15/20 11:20
1,2-Dinitrobenzene	13.04	Baseline	zhangji	05/15/20 11:34
1,3-Dinitrobenzene	15.55	Baseline	zhangji	05/15/20 11:20
2-Nitrotoluene	16.54	Baseline	zhangji	05/15/20 11:20
4-Nitrotoluene	16.82	Baseline	zhangji	05/15/20 11:20
4-Amino-2,6-dinitrotoluene	17.15	Baseline	zhangji	05/15/20 11:20
3-Nitrotoluene	17.75	Baseline	zhangji	05/15/20 11:20
2-Amino-4,6-dinitrotoluene	18.04	Baseline	zhangji	05/15/20 11:20
2,6-Dinitrotoluene	19.81	Baseline	zhangji	05/15/20 11:20
2,4-Dinitrotoluene	20.29	Baseline	zhangji	05/15/20 11:20
PETN	25.28	Peak Tail	zhangji	05/15/20 11:25

Lab Sample ID: IC 280-494886/11 Client Sample ID: _____Date Analyzed: 05/14/20 18:36 Lab File ID: 05140011.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	6.30	Peak assignment corrected	zhangji	05/15/20 11:20
1,2-Dinitrobenzene	13.04	Baseline	zhangji	05/15/20 11:35
Nitroglycerin	15.85	Baseline	zhangji	05/15/20 11:32
PETN	25.28	Peak Tail	zhangji	05/15/20 11:25

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 494886Lab Sample ID: IC 280-494886/12 Client Sample ID: _____Date Analyzed: 05/14/20 19:11 Lab File ID: 05140012.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	6.31	Peak assignment corrected	zhangji	05/15/20 11:22
1,3-Dinitrobenzene	15.55	Baseline	zhangji	05/15/20 11:21
Nitroglycerin	15.85	Baseline	zhangji	05/15/20 11:32
2-Nitrotoluene	16.53	Baseline	zhangji	05/15/20 11:21
4-Nitrotoluene	16.83	Baseline	zhangji	05/15/20 11:21
4-Amino-2,6-dinitrotoluene	17.15	Baseline	zhangji	05/15/20 11:21
3-Nitrotoluene	17.74	Baseline	zhangji	05/15/20 11:21
2-Amino-4,6-dinitrotoluene	18.05	Baseline	zhangji	05/15/20 11:21
1,3,5-Trinitrobenzene	18.88	Baseline	zhangji	05/15/20 11:21
2,6-Dinitrotoluene	19.79	Baseline	zhangji	05/15/20 11:21
2,4-Dinitrotoluene	20.29	Baseline	zhangji	05/15/20 11:21
PETN	25.28	Peak Tail	zhangji	05/15/20 11:24

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 494886Lab Sample ID: IC 280-494886/13 Client Sample ID: _____Date Analyzed: 05/14/20 19:46 Lab File ID: 05140013.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	6.33	Baseline	zhangji	05/15/20 11:22
1,2-Dinitrobenzene	13.04	Baseline	zhangji	05/15/20 11:35
1,3-Dinitrobenzene	15.54	Baseline	zhangji	05/15/20 11:22
Nitroglycerin	15.84	Incomplete Integration	zhangji	05/15/20 11:32
2-Nitrotoluene	16.55	Baseline	zhangji	05/15/20 11:22
4-Nitrotoluene	16.84	Baseline	zhangji	05/15/20 11:22
4-Amino-2,6-dinitrotoluene	17.16	Baseline	zhangji	05/15/20 11:22
3-Nitrotoluene	17.72	Baseline	zhangji	05/15/20 11:22
2-Amino-4,6-dinitrotoluene	18.03	Baseline	zhangji	05/15/20 11:22
1,3,5-Trinitrobenzene	18.86	Baseline	zhangji	05/15/20 11:22
2,6-Dinitrotoluene	19.82	Baseline	zhangji	05/15/20 11:22
2,4-Dinitrotoluene	20.29	Baseline	zhangji	05/15/20 11:22
PETN	25.28	Peak Tail	zhangji	05/15/20 11:24

Lab Sample ID: IC 280-494886/14 Client Sample ID: _____Date Analyzed: 05/14/20 20:21 Lab File ID: 05140014.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	6.32	Peak assignment corrected	zhangji	05/15/20 11:22
1,2-Dinitrobenzene	13.02	Split Peak	zhangji	05/15/20 11:35
PETN	25.28	Split Peak	zhangji	05/15/20 11:24

Lab Sample ID: IC 280-494886/15 Client Sample ID: _____Date Analyzed: 05/14/20 20:56 Lab File ID: 05140015.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,6-Dinitrotoluene	19.76	Baseline	zhangji	05/15/20 11:30
2,4-Dinitrotoluene	20.30	Baseline	zhangji	05/15/20 11:30

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 494886Lab Sample ID: ICV 280-494886/16 Client Sample ID: _____Date Analyzed: 05/14/20 21:31 Lab File ID: 05140016.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	6.23	Peak assignment corrected	zhangji	05/15/20 11:14
2-Nitrotoluene	16.49	Baseline	zhangji	05/15/20 11:33
4-Nitrotoluene	16.77	Baseline	zhangji	05/15/20 11:33
4-Amino-2,6-dinitrotoluene	17.10	Baseline	zhangji	05/15/20 11:33
3-Nitrotoluene	17.69	Baseline	zhangji	05/15/20 11:33
2-Amino-4,6-dinitrotoluene	17.99	Baseline	zhangji	05/15/20 11:33
1,3,5-Trinitrobenzene	18.83	Baseline	zhangji	05/15/20 11:33
2,6-Dinitrotoluene	19.75	Baseline	zhangji	05/15/20 11:33
2,4-Dinitrotoluene	20.24	Baseline	zhangji	05/15/20 11:33

Lab Sample ID: IC 280-494886/17 Client Sample ID: _____Date Analyzed: 05/14/20 22:06 Lab File ID: 05140017.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.71	Peak assignment corrected	zhangji	05/15/20 11:36

Lab Sample ID: IC 280-494886/18 Client Sample ID: _____Date Analyzed: 05/14/20 22:41 Lab File ID: 05140018.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.73	Peak assignment corrected	zhangji	05/15/20 11:36

Lab Sample ID: IC 280-494886/19 Client Sample ID: _____Date Analyzed: 05/14/20 23:16 Lab File ID: 05140019.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.74	Peak assignment corrected	zhangji	05/15/20 11:36

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 494886Lab Sample ID: IC 280-494886/20 Client Sample ID: _____Date Analyzed: 05/14/20 23:51 Lab File ID: 05140020.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.74	Peak assignment corrected	zhangji	05/15/20 11:36

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 498568Lab Sample ID: CCV 280-498568/26 Client Sample ID: _____Date Analyzed: 06/13/20 04:22 Lab File ID: 06120026.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Dinitrobenzene	15.80	Baseline	zhangji	06/16/20 17:52
2-Nitrotoluene	16.73	Baseline	zhangji	06/16/20 17:52
4-Nitrotoluene	17.01	Baseline	zhangji	06/16/20 17:52
4-Amino-2,6-dinitrotoluene	17.47	Baseline	zhangji	06/16/20 17:52
3-Nitrotoluene	17.94	Baseline	zhangji	06/16/20 17:52
2-Amino-4,6-dinitrotoluene	18.41	Baseline	zhangji	06/16/20 17:52
1,3,5-Trinitrobenzene	19.14	Baseline	zhangji	06/16/20 17:52
2,6-Dinitrotoluene	20.07	Baseline	zhangji	06/16/20 17:52
2,4-Dinitrotoluene	20.58	Baseline	zhangji	06/16/20 17:52

Lab Sample ID: CCV 280-498568/27 Client Sample ID: _____Date Analyzed: 06/13/20 04:57 Lab File ID: 06120027.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.93	Baseline	zhangji	06/16/20 17:53

Lab Sample ID: 280-137048-1 Client Sample ID: EW7-PM21A-3-25Date Analyzed: 06/13/20 05:32 Lab File ID: 06120028.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene		Invalid Compound ID	zhangji	06/16/20 17:55
3-Nitrotoluene		Invalid Compound ID	zhangji	06/16/20 17:55

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 498568Lab Sample ID: 280-137048-2 Client Sample ID: EW7-PM22A-3-25Date Analyzed: 06/13/20 06:07 Lab File ID: 06120029.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3,5-Trinitrobenzene		Invalid Compound ID	zhangji	06/16/20 17:55
2-Amino-4,6-dinitrotoluene		Invalid Compound ID	zhangji	06/16/20 17:55
2-Nitrotoluene		Invalid Compound ID	zhangji	06/16/20 17:55
3-Nitrotoluene		Invalid Compound ID	zhangji	06/16/20 17:55
Nitrobenzene	12.27	Baseline	zhangji	06/16/20 17:55
1,2-Dinitrobenzene	13.25	Baseline	zhangji	06/16/20 17:55

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 487658Lab Sample ID: IC 280-487658/25 Client Sample ID: _____Date Analyzed: 03/04/20 21:00 Lab File ID: 03040025.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:29
DNX	6.92	Baseline	beckerc	03/05/20 08:29
MNX	7.36	Baseline	beckerc	03/05/20 08:30

Lab Sample ID: IC 280-487658/26 Client Sample ID: _____Date Analyzed: 03/04/20 21:23 Lab File ID: 03040026.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:30
DNX	6.92	Baseline	beckerc	03/05/20 08:30

Lab Sample ID: IC 280-487658/27 Client Sample ID: _____Date Analyzed: 03/04/20 21:45 Lab File ID: 03040027.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:30
DNX	6.92	Baseline	beckerc	03/05/20 08:30

Lab Sample ID: IC 280-487658/28 Client Sample ID: _____Date Analyzed: 03/04/20 22:09 Lab File ID: 03040028.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:31
DNX	6.92	Baseline	beckerc	03/05/20 08:31

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 487658Lab Sample ID: IC 280-487658/29 Client Sample ID: _____Date Analyzed: 03/04/20 22:31 Lab File ID: 03040029.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:31
DNX	6.92	Baseline	beckerc	03/05/20 08:31

Lab Sample ID: IC 280-487658/30 Client Sample ID: _____Date Analyzed: 03/04/20 22:54 Lab File ID: 03040030.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:31
DNX	6.92	Baseline	beckerc	03/05/20 08:32

Lab Sample ID: IC 280-487658/31 Client Sample ID: _____Date Analyzed: 03/04/20 23:17 Lab File ID: 03040031.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:32
DNX	6.91	Baseline	beckerc	03/05/20 08:32

Lab Sample ID: IC 280-487658/32 Client Sample ID: _____Date Analyzed: 03/04/20 23:40 Lab File ID: 03040032.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:32
DNX	6.91	Baseline	beckerc	03/05/20 08:32

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 487658Lab Sample ID: ICV 280-487658/33 Client Sample ID: _____Date Analyzed: 03/05/20 00:03 Lab File ID: 03040033.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:37
DNX	6.91	Baseline	beckerc	03/05/20 08:37

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 489145Lab Sample ID: IC 280-489145/7 Client Sample ID: _____Date Analyzed: 03/18/20 11:35 Lab File ID: 03180007.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.68	Baseline	beckerc	03/19/20 08:41
1,3-Dinitrobenzene	9.53	Baseline	beckerc	03/19/20 08:41

Lab Sample ID: IC 280-489145/8 Client Sample ID: _____Date Analyzed: 03/18/20 11:58 Lab File ID: 03180008.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:41

Lab Sample ID: IC 280-489145/9 Client Sample ID: _____Date Analyzed: 03/18/20 12:21 Lab File ID: 03180009.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:42

Lab Sample ID: IC 280-489145/10 Client Sample ID: _____Date Analyzed: 03/18/20 12:44 Lab File ID: 03180010.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:42

Lab Sample ID: IC 280-489145/11 Client Sample ID: _____Date Analyzed: 03/18/20 13:07 Lab File ID: 03180011.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:43

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 489145Lab Sample ID: IC 280-489145/12 Client Sample ID: _____Date Analyzed: 03/18/20 13:30 Lab File ID: 03180012.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:43

Lab Sample ID: IC 280-489145/13 Client Sample ID: _____Date Analyzed: 03/18/20 13:53 Lab File ID: 03180013.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:44

Lab Sample ID: IC 280-489145/14 Client Sample ID: _____Date Analyzed: 03/18/20 14:16 Lab File ID: 03180014.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:44
2-Amino-4,6-dinitrotoluene	11.63	Baseline	beckerc	03/19/20 08:44
2,6-Dinitrotoluene	11.79	Unspecified		

Lab Sample ID: IC 280-489145/15 Client Sample ID: _____Date Analyzed: 03/18/20 14:39 Lab File ID: 03180015.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	8.08	Unspecified		
2-Amino-4,6-dinitrotoluene	11.64	Baseline	beckerc	03/19/20 08:46
2,6-Dinitrotoluene	11.80	Unspecified		

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 489145Lab Sample ID: ICV 280-489145/16 Client Sample ID: _____Date Analyzed: 03/18/20 15:02 Lab File ID: 03180016.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:47

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 498360Lab Sample ID: CCV 280-498360/16 Client Sample ID: _____Date Analyzed: 06/11/20 18:25 Lab File ID: 06110016.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.72	Baseline	zhangji	06/11/20 18:51
Nitroglycerin	10.80	Baseline	zhangji	06/11/20 18:51

Lab Sample ID: CCV 280-498360/17 Client Sample ID: _____Date Analyzed: 06/11/20 18:48 Lab File ID: 06110017.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.62	Baseline	zhangji	06/12/20 11:33
DNX	6.95	Baseline	zhangji	06/12/20 11:33
MNX	7.39	Baseline	zhangji	06/12/20 11:34

Lab Sample ID: LCSD 280-496861/3-A Client Sample ID: _____Date Analyzed: 06/11/20 21:29 Lab File ID: 06110024.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.71	Baseline	zhangji	06/12/20 11:09

Lab Sample ID: LCS 280-496861/4-A Client Sample ID: _____Date Analyzed: 06/11/20 21:52 Lab File ID: 06110025.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.38	Baseline	zhangji	06/12/20 11:05

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 498360Lab Sample ID: CCV 280-498360/32 Client Sample ID: _____Date Analyzed: 06/12/20 00:33 Lab File ID: 06110032.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.71	Baseline	zhangji	06/12/20 11:04

Lab Sample ID: CCV 280-498360/33 Client Sample ID: _____Date Analyzed: 06/12/20 00:56 Lab File ID: 06110033.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.62	Baseline	zhangji	06/12/20 11:16
DNX	6.95	Baseline	zhangji	06/12/20 11:16
MNX	7.39	Baseline	zhangji	06/12/20 11:16

Lab Sample ID: 280-137048-1 Client Sample ID: EW7-PM21A-3-25Date Analyzed: 06/12/20 03:14 Lab File ID: 06110039.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.38	Baseline	zhangji	06/12/20 11:19
RDX	7.77	Baseline	zhangji	06/12/20 11:21
1,2-Dinitrobenzene	8.78	Baseline	zhangji	06/12/20 11:21
1,3,5-Trinitrobenzene	8.95	Baseline	zhangji	06/12/20 11:21
1,3-Dinitrobenzene		Invalid Compound ID	zhangji	06/12/20 11:21
2-Nitrotoluene		Invalid Compound ID	zhangji	06/12/20 11:22
Nitrobenzene		Invalid Compound ID	zhangji	06/12/20 11:21
Tetryl		Invalid Compound ID	zhangji	06/12/20 11:21
2,4,6-Trinitrotoluene	11.27	Baseline	zhangji	06/12/20 11:22
2-Amino-4,6-dinitrotoluene	11.73	Baseline	zhangji	06/12/20 11:22
2,4-Dinitrotoluene	12.06	Baseline	zhangji	06/12/20 11:22
4-Nitrotoluene	13.31	Baseline	zhangji	06/12/20 11:22

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 498360Lab Sample ID: 280-137048-2 Client Sample ID: EW7-PM22A-3-25Date Analyzed: 06/12/20 03:37 Lab File ID: 06110040.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.75	Baseline	zhangji	06/12/20 11:23
1,2-Dinitrobenzene	8.81	Baseline	zhangji	06/12/20 11:23
1,3,5-Trinitrobenzene		Invalid Compound ID	zhangji	06/12/20 11:23
1,3-Dinitrobenzene		Invalid Compound ID	zhangji	06/12/20 11:23
2,6-Dinitrotoluene		Baseline	zhangji	06/12/20 11:24
4-Nitrotoluene		Invalid Compound ID	zhangji	06/12/20 11:23
MNX		Invalid Compound ID	zhangji	06/12/20 11:23
RDX		Invalid Compound ID	zhangji	06/12/20 11:23
Tetryl		Baseline	zhangji	06/12/20 11:24
Nitrobenzene	10.04	Baseline	zhangji	06/12/20 11:24
4-Amino-2,6-dinitrotoluene	11.46	Baseline	zhangji	06/12/20 11:24
2,4-Dinitrotoluene	12.05	Baseline	zhangji	06/12/20 11:24

Lab Sample ID: CCV 280-498360/48 Client Sample ID: _____Date Analyzed: 06/12/20 06:41 Lab File ID: 06110048.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	11.74	Peak assignment corrected	zhangji	06/12/20 11:32
2,6-Dinitrotoluene	11.88	Peak assignment corrected	zhangji	06/12/20 11:32

Lab Sample ID: CCV 280-498360/49 Client Sample ID: _____Date Analyzed: 06/12/20 07:04 Lab File ID: 06110049.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.62	Baseline	zhangji	06/12/20 11:32
DNX	6.95	Baseline	zhangji	06/12/20 11:32
MNX	7.40	Baseline	zhangji	06/12/20 11:32

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 498536Lab Sample ID: CCV 280-498536/7 Client Sample ID: _____Date Analyzed: 06/12/20 13:26 Lab File ID: 06120007.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.70	Baseline	zhangji	06/12/20 13:52

Lab Sample ID: CCV 280-498536/9 Client Sample ID: _____Date Analyzed: 06/12/20 14:12 Lab File ID: 06120009.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.62	Baseline	zhangji	06/12/20 14:39
DNX	6.95	Baseline	zhangji	06/12/20 14:39

Lab Sample ID: MB 280-496861/1-A Client Sample ID: _____Date Analyzed: 06/12/20 14:35 Lab File ID: 06120010.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX		Invalid Compound ID	zhangji	06/12/20 15:01

Lab Sample ID: CCV 280-498536/20 Client Sample ID: _____Date Analyzed: 06/12/20 18:25 Lab File ID: 06120020.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.62	Baseline	zhangji	06/16/20 14:03
DNX	6.94	Baseline	zhangji	06/16/20 14:03

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
350.1 cal_00417	06/04/20	05/28/20	Di Water, Lot na	100 mL	NH3 CAL STD_00031	10 mL	Ammonia	100 mg/L
.NH3 CAL STD_00031	08/31/20		Ricca, Lot 2902E25		(Purchased Reagent)		Ammonia	1000 mg/L
350.1 ICV_00405	06/04/20	05/28/20	na, Lot na	100 mL	NH3 ICV STD_00027	10 mL	Ammonia	100.2 mg/L
.NH3 ICV STD_00027	04/01/21		Inorganic Ventures, Lot N2-NH669544		(Purchased Reagent)		Ammonia	1002 mg/L
8330 DMT_00005	03/31/20	01/21/20	Acetonitrile, Lot 231453	5 mL	MNX,TNX,DNX_00032	1 mL	DNX	20.02 ug/mL
							MNX	23.34 ug/mL
							TNX	20.02 ug/mL
.MNX,TNX,DNX_00032	12/31/19		ULTRA Scientific, Lot CS-5628		(Purchased Reagent)		DNX	100.1 ug/mL
							MNX	116.7 ug/mL
							TNX	100.1 ug/mL
8330 DMT_00006	02/28/21	04/15/20	Acetonitrile, Lot ACN_00232	5 mL	MNX,TNX,DNX_00043	1 mL	DNX	20.02 ug/mL
							MNX	23.34 ug/mL
							TNX	20.02 ug/mL
.MNX,TNX,DNX_00043	02/28/21		ULTRA Scientific, Lot 006516106		(Purchased Reagent)		DNX	100.1 ug/mL
							MNX	116.7 ug/mL
							TNX	100.1 ug/mL
8330 LCS_00095	07/24/20	01/24/20	Acetonitrile, Lot ACN_00231	100 mL	8330LCSMix1_00113	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_00009	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
.8330LCSMix1_00113	07/31/24		Restek, Lot A0151407		(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_00009	05/31/24		Restek, Lot A0149387		(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 TestAmerica, Denver Job No.: 280-137048-1

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_00098	07/31/20	04/28/20	Acetonitrile, Lot Acetonitrile_00233	100 mL	8330_NG_Stk_00084	1 mL	Nitroglycerin	100 ug/mL
					8330_NG_Stk_00085	1 mL	Nitroglycerin	100 ug/mL
					8330_PETN_Stk_00091	1 mL	PETN	100 ug/mL
					8330_PETN_Stk_00095	1 mL	PETN	100 ug/mL
					8330LCSMix1_00111	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_00011	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_00092	1 mL	2,4,6-Trinitrophenol	10 ug/mL
.8330_NG_Stk_00084	10/28/20		Restek, Lot A0151571		(Purchased Reagent)		Nitroglycerin	5000 ug/mL
.8330_NG_Stk_00085	10/28/20		Restek, Lot A0151571		(Purchased Reagent)		Nitroglycerin	5000 ug/mL
.8330_PETN_Stk_00091	10/28/20		Restek, Lot A0158915		(Purchased Reagent)		PETN	5000 ug/mL
.8330_PETN_Stk_00095	10/28/20		Restek, Lot A0158915		(Purchased Reagent)		PETN	5000 ug/mL
.8330LCSMix1_00111	10/28/20		Restek, Lot A0151407		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
.8330LCSmix2_00011	10/28/20		Restek, Lot A0157533		(Purchased Reagent)		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
							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_00092	10/02/20		Restek, Lot A0139087		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
8330_OP_DMT_00006	02/24/21	02/24/20	Acetonitrile, Lot 0000196715	10 mL	MNX,TNX,DNX_00042	1 mL	MNX	11.67 ug/mL
.MNX,TNX,DNX_00042	02/28/21		ULTRA Scientific, Lot 006516106		(Purchased Reagent)		MNX	116.7 ug/mL
8330_OP_DMT_00008	02/28/21	04/30/20	Acetonitrile, Lot 0000249516	10 mL	MNX,TNX,DNX_00046	1 mL	DNX	10.01 ug/mL
							MNX	11.67 ug/mL
							TNX	10.01 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-137048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MNX, TNX, DNX_00046	02/28/21		ULTRA Scientific, Lot 006516106		(Purchased Reagent)		DNX	100.1 ug/mL
							MNX	116.7 ug/mL
							TNX	100.1 ug/mL
8330IntermStk_00061	09/09/21	01/09/20	Acetonitrile, Lot 130057	10 mL	8330_NG_Stk_00075	200 uL	Nitroglycerin	100 ug/mL
					8330_PETN_Stk_00087	200 uL	PETN	100 ug/mL
					8330ICALStock_00030	1 mL	1,3,5-Trinitrobenzene	10.02 ug/mL
							1,3-Dinitrobenzene	10.02 ug/mL
							2,4,6-Trinitrotoluene	10.04 ug/mL
							2,4-Dinitrotoluene	10.04 ug/mL
							2,6-Dinitrotoluene	10.04 ug/mL
							2-Amino-4,6-dinitrotoluene	10.04 ug/mL
							2-Nitrotoluene	10 ug/mL
							3-Nitrotoluene	10.01 ug/mL
							4-Amino-2,6-dinitrotoluene	10.01 ug/mL
							4-Nitrotoluene	10.02 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	10.04 ug/mL
							RDX	10 ug/mL
							Tetryl	10.02 ug/mL
							1,2-Dinitrobenzene	10 ug/mL
					8330PASTkPS_00061	1 mL	2,4,6-Trinitrophenol	10 ug/mL
.8330 NG Stk 00075	08/31/22		Restek, Lot A0151571		(Purchased Reagent)		Nitroglycerin	5000 ug/mL
.8330 PETN Stk 00087	11/30/22		Restek, Lot A0154763		(Purchased Reagent)		PETN	5000 ug/mL
.8330ICALStock_00030	03/03/22	01/09/20	Acetonitrile, Lot 130057	10 mL	8330 Stock_TS_00015	1 mL	1,3,5-Trinitrobenzene	100.2 ug/mL
							1,3-Dinitrobenzene	100.2 ug/mL
							2,4,6-Trinitrotoluene	100.4 ug/mL
							2,4-Dinitrotoluene	100.4 ug/mL
							2,6-Dinitrotoluene	100.4 ug/mL
							2-Amino-4,6-dinitrotoluene	100.4 ug/mL
							2-Nitrotoluene	100 ug/mL
							3-Nitrotoluene	100.1 ug/mL
							4-Amino-2,6-dinitrotoluene	100.1 ug/mL
							4-Nitrotoluene	100.2 ug/mL
							HMX	100 ug/mL
							Nitrobenzene	100.4 ug/mL
							RDX	100 ug/mL
							Tetryl	100.2 ug/mL
					8330SurrStock_00164	1 mL	1,2-Dinitrobenzene	100 ug/mL
..8330 Stock_TS_00015	03/31/22		Ultra Scientific, Lot CT-0801		(Purchased Reagent)		1,3,5-Trinitrobenzene	1002 ug/mL
							1,3-Dinitrobenzene	1002 ug/mL
							2,4,6-Trinitrotoluene	1004 ug/mL
							2,4-Dinitrotoluene	1004 ug/mL
							2,6-Dinitrotoluene	1004 ug/mL
							2-Amino-4,6-dinitrotoluene	1004 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1001 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

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	1001 ug/mL
							4-Nitrotoluene	1002 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1004 ug/mL
							RDX	1000 ug/mL
							Tetryl	1002 ug/mL
..8330SurrStock 00164	07/01/26		AccuStandard, Lot 216071012		(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330PASTkPS 00061	09/09/21		AccuStandard, Lot 214121302-02		(Purchased Reagent)		2,4,6-Trinitrophenol	100 ug/mL
8330IntermStk_00064	09/09/21	04/06/20	Acetonitrile, Lot 130057	10 mL	8330_NG_Stk_00075	200 uL	Nitroglycerin	100 ug/mL
					8330_PETN_Stk_00087	200 uL	PETN	100 ug/mL
					8330ICALStock_00030	1 mL	1,3,5-Trinitrobenzene	10.02 ug/mL
							1,3-Dinitrobenzene	10.02 ug/mL
							2,4,6-Trinitrotoluene	10.04 ug/mL
							2,4-Dinitrotoluene	10.04 ug/mL
							2,6-Dinitrotoluene	10.04 ug/mL
							2-Amino-4,6-dinitrotoluene	10.04 ug/mL
							2-Nitrotoluene	10 ug/mL
							3-Nitrotoluene	10.01 ug/mL
							4-Amino-2,6-dinitrotoluene	10.01 ug/mL
							4-Nitrotoluene	10.02 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	10.04 ug/mL
							RDX	10 ug/mL
							Tetryl	10.02 ug/mL
							1,2-Dinitrobenzene	10 ug/mL
					8330PASTkPS 00061	1 mL	2,4,6-Trinitrophenol	10 ug/mL
.8330 NG Stk 00075	08/31/22		Restek, Lot A0151571		(Purchased Reagent)		Nitroglycerin	5000 ug/mL
.8330 PETN Stk 00087	11/30/22		Restek, Lot A0154763		(Purchased Reagent)		PETN	5000 ug/mL
.8330ICALStock_00030	03/03/22	01/09/20	Acetonitrile, Lot 130057	10 mL	8330 Stock_TS_00015	1 mL	1,3,5-Trinitrobenzene	100.2 ug/mL
							1,3-Dinitrobenzene	100.2 ug/mL
							2,4,6-Trinitrotoluene	100.4 ug/mL
							2,4-Dinitrotoluene	100.4 ug/mL
							2,6-Dinitrotoluene	100.4 ug/mL
							2-Amino-4,6-dinitrotoluene	100.4 ug/mL
							2-Nitrotoluene	100 ug/mL
							3-Nitrotoluene	100.1 ug/mL
							4-Amino-2,6-dinitrotoluene	100.1 ug/mL
							4-Nitrotoluene	100.2 ug/mL
							HMX	100 ug/mL
							Nitrobenzene	100.4 ug/mL
							RDX	100 ug/mL
							Tetryl	100.2 ug/mL
					8330SurrStock 00164	1 mL	1,2-Dinitrobenzene	100 ug/mL
..8330 Stock_TS_00015	03/31/22		Ultra Scientific, Lot CT-0801		(Purchased Reagent)		1,3,5-Trinitrobenzene	1002 ug/mL
							1,3-Dinitrobenzene	1002 ug/mL
							2,4,6-Trinitrotoluene	1004 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrotoluene	1004 ug/mL
							2,6-Dinitrotoluene	1004 ug/mL
							2-Amino-4,6-dinitrotoluene	1004 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1001 ug/mL
							4-Amino-2,6-dinitrotoluene	1001 ug/mL
							4-Nitrotoluene	1002 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1004 ug/mL
							RDX	1000 ug/mL
							Tetryl	1002 ug/mL
..8330SurrStock_00164	07/01/26		AccuStandard, Lot 216071012		(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330PASTkPS_00061	09/09/21		AccuStandard, Lot 214121302-02		(Purchased Reagent)		2,4,6-Trinitrophenol	100 ug/mL
8330Surrogate_00110	05/17/20	12/17/19	Acetonitrile, Lot ACN_00223	250 mL	8330SurrStkSS_00145	0.25 mL	1,2-Dinitrobenzene	10 ug/mL
					8330SurrStkSS_00158	0.25 mL	1,2-Dinitrobenzene	10 ug/mL
					8330SurrStkSS_00160	1 mL	1,2-Dinitrobenzene	10 ug/mL
					8330SurrStkSS_00161	1 mL	1,2-Dinitrobenzene	10 ug/mL
.8330SurrStkSS_00145	03/31/23		Restek, Lot A0135839		(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330SurrStkSS_00158	07/31/24		Restek, Lot A0146866		(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330SurrStkSS_00160	10/28/22		Restek, Lot A0150790		(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330SurrStkSS_00161	07/31/24		Restek, Lot A0150790		(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
8330Surrogate_00114	11/07/20	05/07/20	Acetonitrile, Lot ACN_00234	100 mL	8330SurrStkSS_00157	1 mL	1,2-Dinitrobenzene	10 ug/mL
.8330SurrStkSS_00157	11/07/20		Restek, Lot A0146866		(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
8330Surrogate_00116	11/15/20	05/15/20	Acetonitrile, Lot Acetonitrile_00044	200 mL	8330SurrStkSS_00168	1 mL	1,2-Dinitrobenzene	10 ug/mL
							1,2-Dinitrobenzene (Surr)	10 ug/mL
					8330SurrStkSS_00169	1 mL	1,2-Dinitrobenzene	10 ug/mL
							1,2-Dinitrobenzene (Surr)	10 ug/mL
.8330SurrStkSS_00168	11/15/20		Restek, Lot A0155113		(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330SurrStkSS_00169	11/15/20		Restek, Lot A0155113		(Purchased Reagent)		1,2-Dinitrobenzene (Surr)	1000 ug/mL
							1,2-Dinitrobenzene (Surr)	1000 ug/mL
Alk daily lcs_00905	06/08/20	06/01/20	Di Water, Lot na	1000 mL	Alk stk std_00017	4 mL	Total Alkalinity as CaCO3	200 mg/L
.Alk stk std_00017	03/30/21		Fischer, Lot 191517		(Purchased Reagent)		Total Alkalinity as CaCO3	50 g/L
IC CAL cl/so4_00310	05/18/20	05/11/20	Di Water, Lot na	100 mL	IC CL cal_00060	25 mL	Chloride	250 mg/L
					IC sulfatecal_00059	25 mL	Sulfate	250 mg/L
					(Purchased Reagent)		Chloride	1000 mg/L
					(Purchased Reagent)		Sulfate	1000 mg/L
.IC CL cal_00060	01/30/21		SPEX CertiPrep, Lot 4-176CL-2X		(Purchased Reagent)		Chloride	1000 mg/L
.IC sulfatecal_00059	01/30/21		SPEX CertiPrep, Lot 4-176SO4-2X		(Purchased Reagent)		Sulfate	1000 mg/L
IC CAL cl/so4_00312	06/02/20	05/26/20	Di Water, Lot na	100 mL	IC sulfatecal_00059	25 mL	Sulfate	250 mg/L
.IC sulfatecal_00059	01/30/21		SPEX CertiPrep, Lot 4-176SO4-2X		(Purchased Reagent)		Sulfate	1000 mg/L
IC Cal low_00524	05/15/20	05/08/20	Di Water, Lot NA	100 mL	IC BR ICV_00018	5 mL	Bromide	50 mg/L
					IC FL cal_00015	5 mL	Fluoride	50 mg/L
					(Purchased Reagent)		Bromide	1000 mg/L
					(Purchased Reagent)		Fluoride	1000 mg/L
.IC BR ICV_00018	01/31/21		ricca, Lot 2907E22		(Purchased Reagent)		Bromide	1000 mg/L
.IC FL cal_00015	05/31/20		Ricca, Lot 4811621		(Purchased Reagent)		Fluoride	1000 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
IC LCS 01743	06/05/20	05/29/20	Di Water, Lot 27	200 mL	IC sulfatecal_00057	20 mL	Sulfate	100 mg/L as N
.IC sulfatecal_00057	06/30/20		SPEX CertiPrep, Lot 4-197S04-2X		(Purchased Reagent)		Sulfate	1000 mg/L
IC SO4 ICV 00021	08/31/21		ERA, Lot 100819m		(Purchased Reagent)		Sulfate	1000 mg/L
NXN CAL INT 00533	06/03/20	05/27/20	Di Water, Lot NA	100 mL	NOXT Cal STD 00023	10 mL	Nitrate Nitrite as N	100 mg/L
.NOXT Cal STD 00023	12/31/20		RICCA, Lot 1906A84		(Purchased Reagent)		Nitrate Nitrite as N	1000 mg/L
NXN ICV INT 00514	06/03/20	05/27/20	Di Water, Lot NA	100 mL	NOXT ICV STD 00023	10 mL	Nitrate Nitrite as N	100 mg/L
.NOXT ICV STD 00023	03/11/21		ERA, Lot 130319m		(Purchased Reagent)		Nitrate Nitrite as N	1000 mg/L
RSK175methane_00010	04/16/22		Supelco Analytical, Lot 160-401480003-1		(Purchased Reagent)		Methane	650500 ug/L
RSK7gasMathes_00027	10/24/20		Matheson, Lot 9308634170		(Purchased Reagent)		Methane	6570.3 ug/L
RSK7gasMathes_00031	03/09/22		Matheson, Lot DL0396162		(Purchased Reagent)		Acetylene	10667 ug/L
							Ethane	12317 ug/L
							Ethylene	11490 ug/L
							Methane	6570.3 ug/L
SFD CAL INT_01757	07/20/20	04/22/20	Di Water, Lot NA	500 mL	50% NaOH_00017	2 mL	Sodium Hydroxide	2000 mg/L
					SFD CAL STK_00006	3.41574 g	Sulfide	912.001 mg/L
.50% NaOH_00017	10/01/20		Fisher, Lot 186215		(Purchased Reagent)		Sodium Hydroxide	50 %
.SFD CAL STK_00006	10/01/23		ACROS, Lot A0390872		(Purchased Reagent)		Sulfide	0.1335 g/g
TKN 25ppm_00808	06/12/20	05/12/20	Di Water, Lot 1	100 mL	TKN 100PPM_00121	25 mL	Nitrogen, Total Kjeldahl	25 mg/L
.TKN 100PPM_00121	06/12/20	05/12/20	Di Water, Lot 1	500 mL	TKN CAL STD_00017	50 mL	Nitrogen, Total Kjeldahl	100 mg/L
..TKN CAL STD_00017	01/31/21		nsi lab solutions, Lot 010617		(Purchased Reagent)		Nitrogen, Total Kjeldahl	1000 mg/L
TKN ICV 25_00093	06/12/20	05/12/20	DI water, Lot 1	100 mL	TKN ICV 100_00083	25 mL	Nitrogen, Total Kjeldahl	25 mg/L
.TKN ICV 100_00083	06/12/20	05/12/20	Di Water, Lot 1	500 mL	TKN ICV_00011	50 mL	Nitrogen, Total Kjeldahl	100 mg/L
..TKN ICV_00011	11/30/20		ERA, Lot 281018		(Purchased Reagent)		Nitrogen, Total Kjeldahl	1000 mg/L
TOC ICV Std_00043	08/31/20		Ricca, Lot 2908E72		(Purchased Reagent)		Dissolved Organic Carbon - Quad	1000 ppm
							DOC Result 1	1000 ppm
							DOC Result 2	1000 ppm
							DOC Result 3	1000 ppm
							DOC Result 4	1000 ppm
TOC LCS Std_00048	06/30/21		Agilent, Lot 0006465171		(Purchased Reagent)		Dissolved Organic Carbon - Quad	1001 ppm
							DOC Result 1	1001 ppm
							DOC Result 2	1001 ppm
							DOC Result 3	1001 ppm
							DOC Result 4	1001 ppm

Reagent

50% NaOH_00017



Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

ThermoFisher Scientific's Quality System has been found to conform to Quality Management System
Standard ISO9001:2008 standard by SAI Global Certificate Number CERT - 0090918

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. ThermoFisher 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. ThermoFisher does not maintain DMF's with the FDA. The following are the actual analytical results obtained:

Catalog Number	SS254	Quality Test / Release Date	10/03/2018
Lot Number	186215	Expiration Date	Oct/2020
Description	SODIUM HYDROXIDE, 50%, CERTIFIED		
Country of Origin	United States		
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	This product is of mineral origin, not animal origin, and to the best of our knowledge, does not contribute to BSE or TSE.		
Chemical Comment	This product is not manufactured with natural latex rubber or genetically modified organisms. Also it is not manufactured using allergenic materials, including dyes/food dyes, eggs/egg products, fish/shellfish/crustaceans, flavors, glutens, legumes, milk, mollusks, MSG, mustards, plant nuts/seeds/oils, peanuts/peanut products, protein hydrolysates, soybean products, spices, sulfites, sulfates, tree nuts or oils, and wheat.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	CLEAR, COLORLESS LIQUID HAVING NO SEDIMENT OR PARTICULATES
ASSAY	%	Inclusive Between 50 - 52	50.5
CARBONATE	%	<= 0.10	0.07
CHLORIDE	%	<= 0.005	<0.005
HEAVY METALS (as Ag)	%	<= 0.001	<0.001
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	%	<= 0.002	<0.002
AMMONIUM HYDROX. PPT	%	<= 0.010	<0.010
NITROGEN COMPOUNDS	ppm	<= 5	<5
PHOSPHATE (PO4)	ppm	<= 5	<5
POTASSIUM (K)	%	<= 0.025	<0.003
SILICA (SiO2)	%	<= 0.01	<0.01
IRON (Fe)	ppm	<= 5	<5

Jerisa Bailey-Wyche

Quality Assurance Specialist - Certificate of Analysis Bridgewater

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

8330 LCS_00098

Preliminary Report

Eurofins TestAmerica, Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\CHHPLC_X\20200429-91143.b\04290006.D

Lims ID: C18column:B16162

Inj. Date: 29-Apr-2020 19:29:58

Worklist ID: 280-0091143-006

Instrument: CHHPLC_X3

Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 0B_Sonc_	Limits 2 3535
3 HMX	0.1000	0.0988	98.8	65-135	66-115
7 RDX	0.1000	0.0968	96.8	68-130	69-122
8 2,4,6-Trinitrophenol	0.1000	0.1027	102.7	80-120	63-135
10 1,3,5-Trinitrobenzene	0.1000	0.1037	103.7	73-125	62-127
11 1,3-Dinitrobenzene	0.1000	0.1029	102.9	78-120	59-131
12 Nitrobenzene	0.1000	0.1031	103.1	65-134	46-144
14 Tetryl	0.1000	0.1003	100.3	64-128	56-131
15 Nitroglycerin	1.00	0.9742	97.4	74-127	70-125
16 2,4,6-Trinitrotoluene	0.1000	0.1014	101.4	71-123	46-139
17 4-Amino-2,6-dinitrotolu	0.1000	0.0973	97.3	76-125	43-120
18 2-Amino-4,6-dinitrotolu	0.1000	0.1006	100.6	79-120	46-124
19 2,6-Dinitrotoluene	0.1000	0.1019	101.9	77-127	51-130
20 2,4-Dinitrotoluene	0.1000	0.0984	98.4	78-120	53-127
21 o-Nitrotoluene	0.1000	0.1039	103.9	70-127	37-138
22 p-Nitrotoluene	0.1000	0.1015	101.5	71-127	41-137
23 m-Nitrotoluene	0.1000	0.1043	104.3	73-125	31-140
24 PETN	1.00	0.9068	90.7	73-127	67-127

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

280-135793-A-1-A

280-135793-A-2-A

280-135793-A-3-A

280-135793-B-4-A

280-135793-A-5-A

280-135793-A-6-A

280-135871-A-1-A

280-135930-A-1-A

280-135930-A-2-A

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

480-168872-A-18-A

480-168872-A-19-A

480-168872-A-20-A

480-168872-A-21-A

600-204066-C-1-A

Reagent

8330 Stock_TS_00015



Certificate of Analysis ISO Guide 34

Stock Standard

Product Number: NAIM-833E

Page: 1 of 2

Lot Number: CT-0801

Lot Issue Date: 25-Feb-2019

Expiration Date: 31-Mar-2022

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
HMX	002691-41-0	RM06237	1000 ± 5 µg/mL
RDX	000121-82-4	RM10915	1000 ± 5 µg/mL
1,3,5-trinitrobenzene	000099-35-4	RM06608	1002 ± 5 µg/mL
m-dinitrobenzene	000099-65-0	RM14290	1002 ± 5 µg/mL
nitrobenzene	000098-95-3	RM11472	1004 ± 5 µg/mL
2,4,6-trinitrotoluene (TNT)	000118-96-7	RM11972	1004 ± 5 µg/mL
2,4-dinitrotoluene	000121-14-2	RM10279	1004 ± 5 µg/mL
tetryl	000479-45-8	RM14651	1002 ± 5 µg/mL
2,6-dinitrotoluene	000606-20-2	NT00450	1004 ± 5 µg/mL
2-nitrotoluene	000088-72-2	NT01996	1000 ± 5 µg/mL
3-nitrotoluene	000099-08-1	NT02212	1001 ± 5 µg/mL
4-nitrotoluene	000099-99-0	NT02096	1002 ± 5 µg/mL
2-amino-4,6-dinitrotoluene	035572-78-2	RM04229	1004 ± 5 µg/mL
4-amino-2,6-dinitrotoluene	019406-51-0	RM04226	1001 ± 5 µg/mL

Matrix: acetonitrile

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

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.



ISO Guide 34 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System



ISO17025 Cert No.
AT-1937

Certificate of Analysis

ISO Guide 34

Stock Standard

Product Number: NAIM-833E

Page: 2 of 2

Lot Number: CT-0801

Lot Issue Date: 25-Feb-2019

Expiration Date: 31-Mar-2022

Analyte

CAS#

Analyte Lot

True Value



Monica Bourgeois
QMS Representative



ISO Guide 34 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System



ISO17025 Cert No.
AT-1937

Reagent

8330_NG_Stk_00075



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Composition



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 568871 Lot No.: A0151571
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, 2022 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitroglycerin CAS # 55-63-0 Purity 99% (Lot 170616JLM)	5,036.0 µg/mL	+/- 46.8321 µg/mL Gravimetric +/- 278.2306 µg/mL Unstressed +/- 323.7234 µg/mL Stressed

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

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

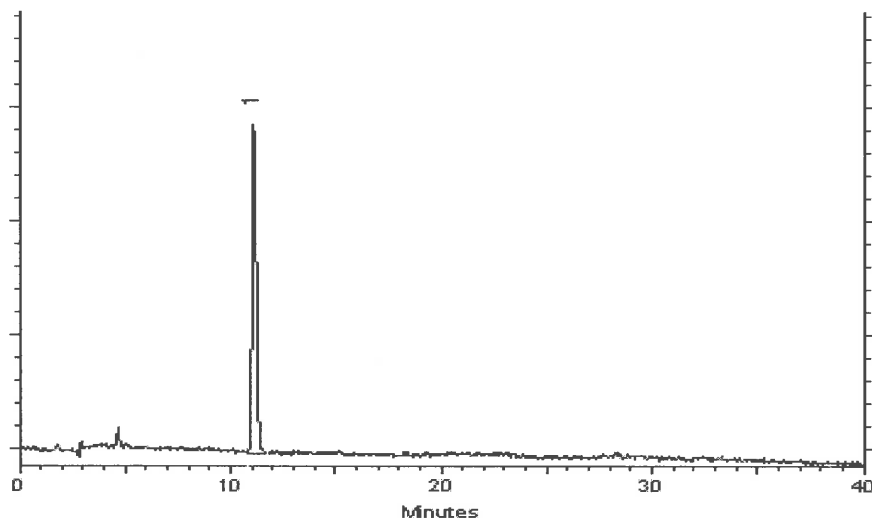
Flow Rate:
1.0 ml/min.

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

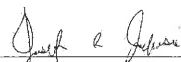
Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210 nm

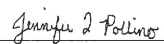


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Joseph Jaglowski - Mix Technician

Date Mixed: 05-Aug-2019

Balance: B707717271


Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 09-Aug-2019



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

Reagent

8330_NG_Stk_00084



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Catalog No. : 568871 Lot No.: A0151571
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, 2022 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitroglycerin CAS # 55-63-0 Purity 99% (Lot 170616JLM)	5,036.0 µg/mL	+/- 46.8321 µg/mL Gravimetric +/- 278.2306 µg/mL Unstressed +/- 323.7234 µg/mL Stressed

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

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

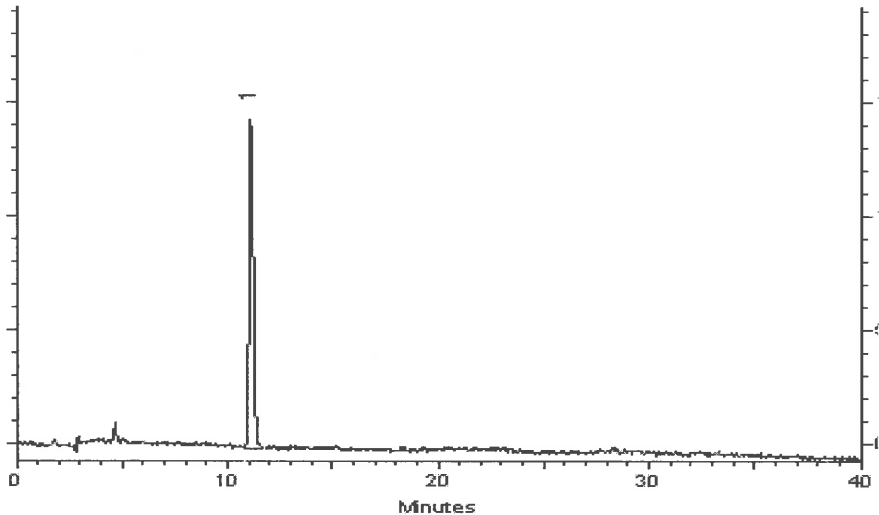
Flow Rate:
1.0 ml/min.

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.

Joseph Jaglowski
Joseph Jaglowski - Mix Technician

Date Mixed: 05-Aug-2019 Balance: B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 09-Aug-2019



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

Reagent

8330_NG_Stk_00085



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CERTIFIED REFERENCE MATERIAL

Certificate of Composition



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 568871 Lot No.: A0151571
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, 2022 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitroglycerin CAS # 55-63-0 Purity 99% (Lot 170616JLM)	5,036.0 µg/mL	+/- 46.8321 µg/mL Gravimetric +/- 278.2306 µg/mL Unstressed +/- 323.7234 µg/mL Stressed

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

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

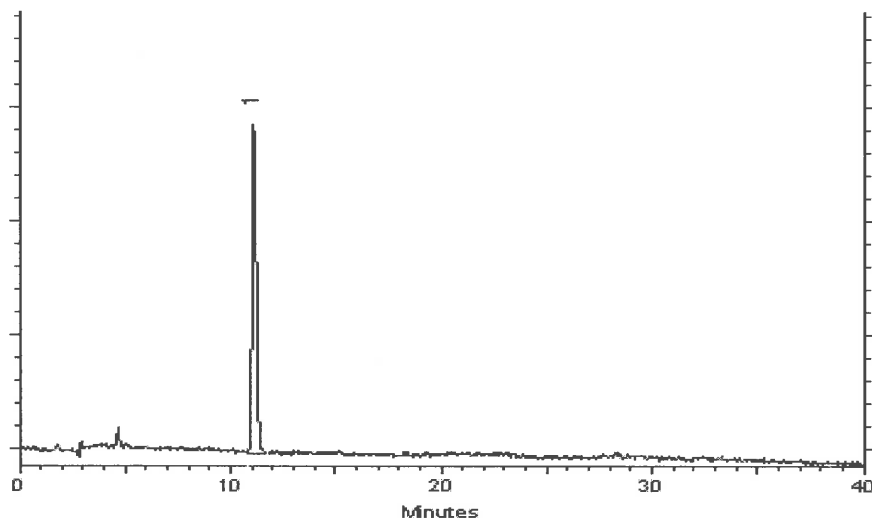
Flow Rate:
1.0 ml/min.

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

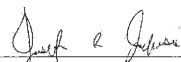
Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210 nm

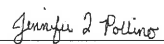


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Joseph Jaglowski - Mix Technician

Date Mixed: 05-Aug-2019

Balance: B707717271


Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 09-Aug-2019



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

Reagent

8330_PETN_Stk_00087



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Certificate of Composition



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 568872 Lot No.: A0154763
Description : Custom PETN Standard
Custom PETN Standard 5,000µg/mL, Acetonitrile, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : November 30, 2022 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	PETN		5,024.0 µg/mL	+/-	46.7205 µg/mL	Gravimetric
	CAS #	78-11-5 (Lot 051108JLM)		+/-	277.5676 µg/mL	Unstressed
	Purity	99%		+/-	322.9521 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:

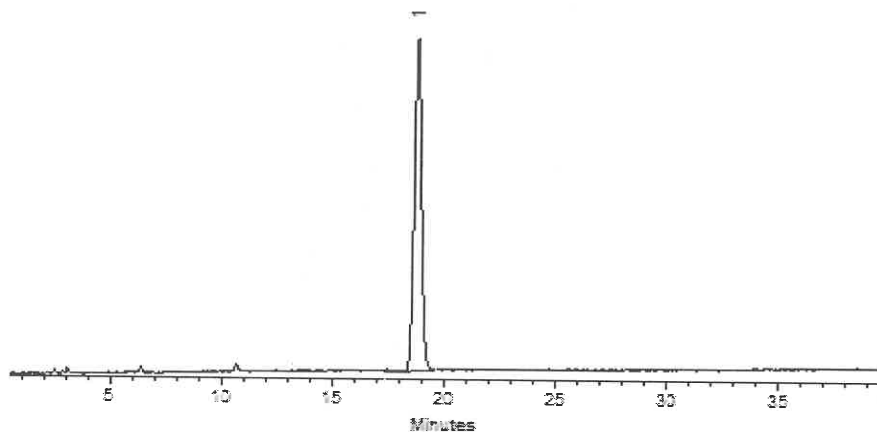
water:methanol (44:56 V/V)

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.

Clara Windle

Clara Windle - Operations Technician I

Date Mixed: 05-Nov-2019

Balance: B442140311

Jennifer J Pollino

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 08-Nov-2019

PREPARED BY: JENNIFER J. POLLINO

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

Reagent

8330_PETN_Stk_00091



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Composition



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 568872 Lot No.: A0158915
Description : Custom PETN Standard
Custom PETN Standard 5,000µg/mL, Acetonitrile, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : March 31, 2023 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	PETN CAS # 78-11-5 Purity 99% (Lot 051108JLM)	5,000.0 µg/mL	+/- 46.4973 µg/mL Gravimetric +/- 276.2417 µg/mL Unstressed +/- 321.4093 µg/mL Stressed

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

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

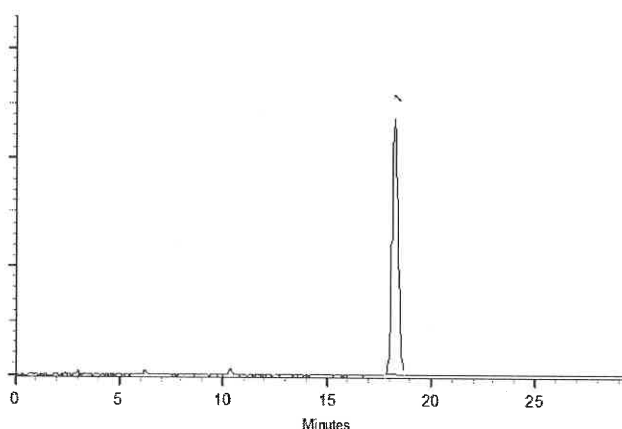
Flow Rate:
1.0 ml/min.

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.

Michael Mage

Date Mixed: 17-Mar-2020 **Balance:** 1127510105

Justin Albertson
Justin Albertson - Operations Tech-ARM QC

Date Passed: 18-Mar-2020

RECEIVED
18-MAR-2020 10:10

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

Reagent

8330_PETN_Stk_00095



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Composition



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 568872 Lot No.: A0158915
 Description : Custom PETN Standard
Custom PETN Standard 5,000µg/mL, Acetonitrile, 1mL/ampul
 Container Size : 2 mL Pkg Amt: > 1 mL
 Expiration Date : March 31, 2023 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	PETN CAS # 78-11-5 Purity 99% (Lot 051108JLM)	5,000.0 µg/mL	+/- 46.4973 µg/mL Gravimetric +/- 276.2417 µg/mL Unstressed +/- 321.4093 µg/mL Stressed

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

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

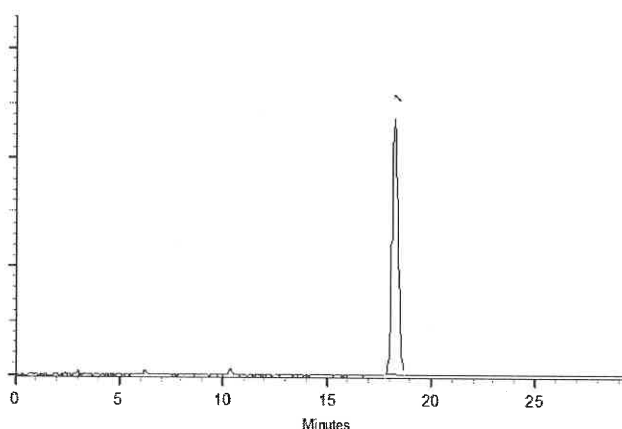
Flow Rate:
1.0 ml/min.

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.

Michael Mage

Date Mixed: 17-Mar-2020 **Balance:** 1127510105

Justin Albertson
Justin Albertson - Operations Tech-ARM QC

Date Passed: 18-Mar-2020

RECEIVED
18-MAR-2020 10:10:05

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

Reagent

8330LCSMix1_00111



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31450 Lot No.: A0151407
Description : 8330 Calibration Mix #1
8330 Calibration Std #1 1000µg/mL, Acetonitrile, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2024 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	HMX CAS # 2691-41-0 (Lot 190402JLM) Purity 97%	1,004.9 µg/mL	+/- 5.9689 µg/mL +/- 55.0525 µg/mL +/- 64.1967 µg/mL	Gravimetric Unstressed Stressed
2	RDX CAS # 121-82-4 (Lot 080228JLM) Purity 99%	1,005.0 µg/mL	+/- 5.9694 µg/mL +/- 55.0569 µg/mL +/- 64.2018 µg/mL	Gravimetric Unstressed Stressed
3	1,3,5-Trinitrobenzene CAS # 99-35-4 (Lot DJ5QO) Purity 97%	1,003.0 µg/mL	+/- 5.9574 µg/mL +/- 54.9463 µg/mL +/- 64.0727 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Dinitrobenzene CAS # 99-65-0 (Lot BCBN4329V) Purity 99%	1,001.0 µg/mL	+/- 5.9456 µg/mL +/- 54.8378 µg/mL +/- 63.9463 µg/mL	Gravimetric Unstressed Stressed
5	Nitrobenzene CAS # 98-95-3 (Lot SHBJ3622) Purity 99%	1,001.0 µg/mL	+/- 5.9456 µg/mL +/- 54.8378 µg/mL +/- 63.9463 µg/mL	Gravimetric Unstressed Stressed
6	2,4,6-Trinitrotoluene CAS # 118-96-7 (Lot 5737200) Purity 99%	1,005.0 µg/mL	+/- 5.9694 µg/mL +/- 55.0569 µg/mL +/- 64.2018 µg/mL	Gravimetric Unstressed Stressed
7	2,4-Dinitrotoluene CAS # 121-14-2 (Lot MKAA0690) Purity 99%	1,001.0 µg/mL	+/- 5.9456 µg/mL +/- 54.8378 µg/mL +/- 63.9463 µg/mL	Gravimetric Unstressed Stressed

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

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

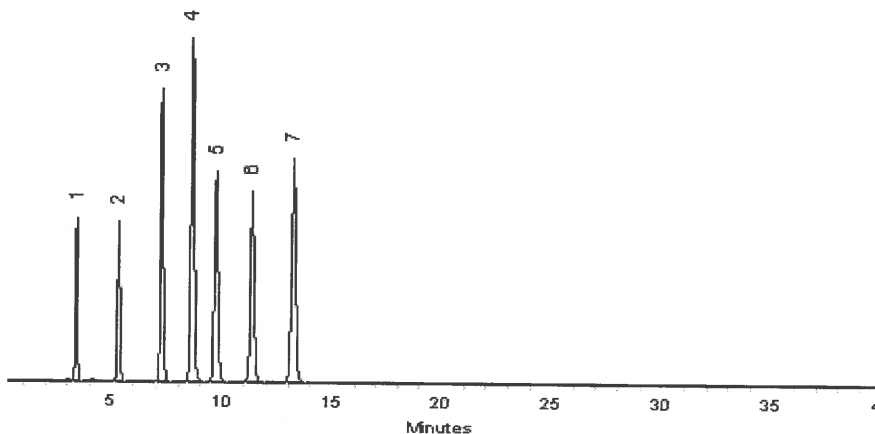
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

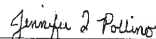
Det. Type:
Wavelength: 210 nm



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.


Matt Fragassi - Mix Technician

Date Mixed: 30-Jul-2019 Balance: 1127510105


Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Aug-2019

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

Reagent

8330LCsMix1_00113



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



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.: A0151407
Description : 8330 Calibration Mix #1
8330 Calibration Std #1 1000µg/mL, Acetonitrile, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2024 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	HMX		1,004.9 µg/mL	+/-	5.9689	µg/mL	Gravimetric
	CAS #	2691-41-0 (Lot 190402JLM)		+/-	55.0525	µg/mL	Unstressed
	Purity	97%		+/-	64.1967	µg/mL	Stressed
2	RDX		1,005.0 µg/mL	+/-	5.9694	µg/mL	Gravimetric
	CAS #	121-82-4 (Lot 080228JLM)		+/-	55.0569	µg/mL	Unstressed
	Purity	99%		+/-	64.2018	µg/mL	Stressed
3	1,3,5-Trinitrobenzene		1,003.0 µg/mL	+/-	5.9574	µg/mL	Gravimetric
	CAS #	99-35-4 (Lot DJ5QO)		+/-	54.9463	µg/mL	Unstressed
	Purity	97%		+/-	64.0727	µg/mL	Stressed
4	1,3-Dinitrobenzene		1,001.0 µg/mL	+/-	5.9456	µg/mL	Gravimetric
	CAS #	99-65-0 (Lot BCBN4329V)		+/-	54.8378	µg/mL	Unstressed
	Purity	99%		+/-	63.9463	µg/mL	Stressed
5	Nitrobenzene		1,001.0 µg/mL	+/-	5.9456	µg/mL	Gravimetric
	CAS #	98-95-3 (Lot SHBJ3622)		+/-	54.8378	µg/mL	Unstressed
	Purity	99%		+/-	63.9463	µg/mL	Stressed
6	2,4,6-Trinitrotoluene		1,005.0 µg/mL	+/-	5.9694	µg/mL	Gravimetric
	CAS #	118-96-7 (Lot 5737200)		+/-	55.0569	µg/mL	Unstressed
	Purity	99%		+/-	64.2018	µg/mL	Stressed
7	2,4-Dinitrotoluene		1,001.0 µg/mL	+/-	5.9456	µg/mL	Gravimetric
	CAS #	121-14-2 (Lot MKAA0690)		+/-	54.8378	µg/mL	Unstressed
	Purity	99%		+/-	63.9463	µg/mL	Stressed

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

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

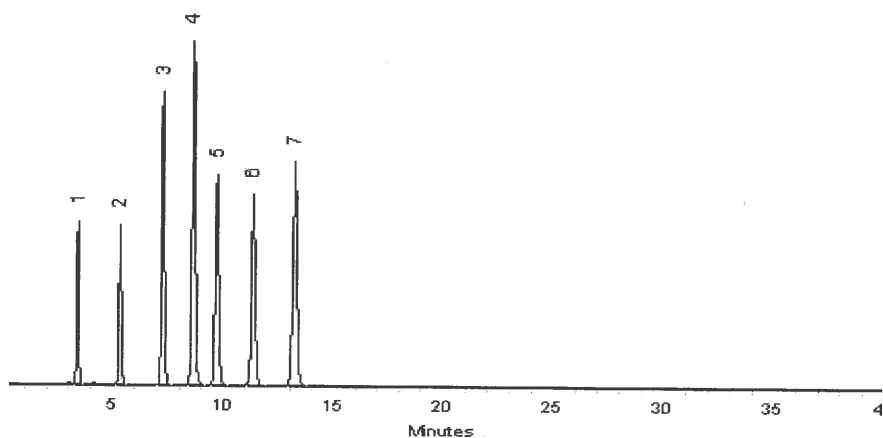
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210 nm

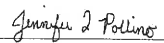


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Matt Fragassi - Mix Technician

Date Mixed: 30-Jul-2019

Balance: 1127510105


Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Aug-2019

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

Reagent

8330LCSmix2_00009



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31451 **Lot No.:** A0149387

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

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

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

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 091120JLM)	1,004.0 µg/mL	+/- 5.9635	µg/mL	Gravimetric
			+/- 55.0021	µg/mL	Unstressed
			+/- 64.1379	µg/mL	Stressed
2	4-Amino-2,6-dinitrotoluene CAS # 19406-51-0 Purity 99% (Lot ER070908-01)	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
			+/- 54.7830	µg/mL	Unstressed
			+/- 63.8824	µg/mL	Stressed
3	2-Amino-4,6-dinitrotoluene CAS # 35572-78-2 Purity 98% (Lot 29550-55)	999.6 µg/mL	+/- 5.9373	µg/mL	Gravimetric
			+/- 54.7611	µg/mL	Unstressed
			+/- 63.8568	µg/mL	Stressed
4	2,6-Dinitrotoluene CAS # 606-20-2 Purity 99% (Lot 1437483V)	1,004.0 µg/mL	+/- 5.9635	µg/mL	Gravimetric
			+/- 55.0021	µg/mL	Unstressed
			+/- 64.1379	µg/mL	Stressed
5	2-Nitrotoluene CAS # 88-72-2 Purity 99% (Lot GA01)	1,010.0 µg/mL	+/- 5.9991	µg/mL	Gravimetric
			+/- 55.3308	µg/mL	Unstressed
			+/- 64.5212	µg/mL	Stressed
6	4-Nitrotoluene CAS # 99-99-0 Purity 99% (Lot FAU01)	1,006.0 µg/mL	+/- 5.9753	µg/mL	Gravimetric
			+/- 55.1117	µg/mL	Unstressed
			+/- 64.2657	µg/mL	Stressed
7	3-Nitrotoluene CAS # 99-08-1 Purity 98% (Lot 07329LG)	1,007.4 µg/mL	+/- 5.9839	µg/mL	Gravimetric
			+/- 55.1906	µg/mL	Unstressed
			+/- 64.3577	µg/mL	Stressed

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

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

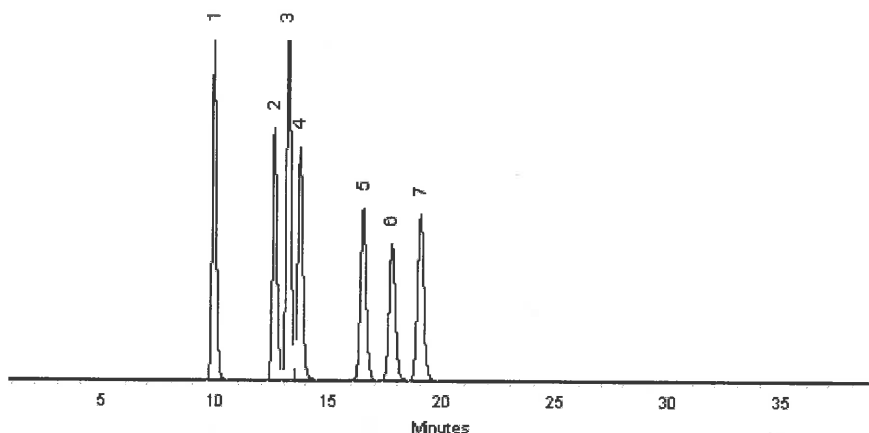
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

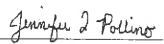
Det. Type:
Wavelength: 210 nm



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.


Lane Kibe - Mix Technician

Date Mixed: 21-May-2019 Balance: 1127510105


Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 23-May-2019

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

Reagent

8330LCSmix2_00011



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



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.:** A0157533

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

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

Expiration Date: February 28, 2025 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Tetryl CAS # 479-45-8 (Lot 091120JLM) Purity 99%	1,004.0 µg/mL	+/- 5.9635	µg/mL	Gravimetric	
			+/- 55.0021	µg/mL	Unstressed	
			+/- 64.1379	µg/mL	Stressed	
2	4-Amino-2,6-dinitrotoluene CAS # 19406-51-0 (Lot ER070908-01) Purity 99%	1,004.0 µg/mL	+/- 5.9635	µg/mL	Gravimetric	
			+/- 55.0021	µg/mL	Unstressed	
			+/- 64.1379	µg/mL	Stressed	
3	2-Amino-4,6-dinitrotoluene CAS # 35572-78-2 (Lot 29550-55) Purity 98%	999.6 µg/mL	+/- 5.9373	µg/mL	Gravimetric	
			+/- 54.7611	µg/mL	Unstressed	
			+/- 63.8568	µg/mL	Stressed	
4	2,6-Dinitrotoluene CAS # 606-20-2 (Lot BCBB8606) Purity 99%	1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric	
			+/- 54.8926	µg/mL	Unstressed	
			+/- 64.0101	µg/mL	Stressed	
5	2-Nitrotoluene CAS # 88-72-2 (Lot BCBZ7826) Purity 99%	1,004.0 µg/mL	+/- 5.9635	µg/mL	Gravimetric	
			+/- 55.0021	µg/mL	Unstressed	
			+/- 64.1379	µg/mL	Stressed	
6	4-Nitrotoluene CAS # 99-99-0 (Lot FAU01) Purity 99%	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric	
			+/- 54.7830	µg/mL	Unstressed	
			+/- 63.8824	µg/mL	Stressed	
7	3-Nitrotoluene CAS # 99-08-1 (Lot FBO01) Purity 98%	1,003.5 µg/mL	+/- 5.9606	µg/mL	Gravimetric	
			+/- 54.9758	µg/mL	Unstressed	
			+/- 64.1072	µg/mL	Stressed	

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

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

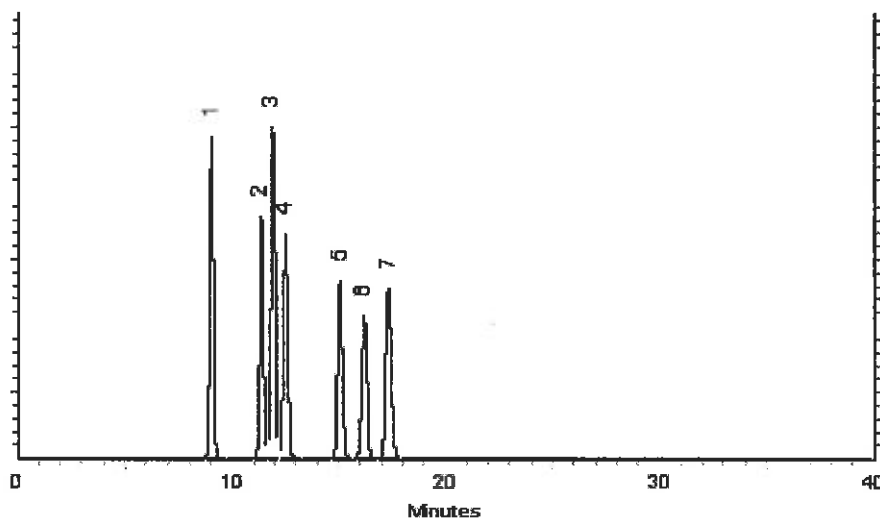
Flow Rate:
1.0 ml/min.

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.

Claudia Wido
Claudia Wido - Operations Technician I

Date Mixed: 06-Feb-2020 **Balance:** B251644995

Jennifer Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 10-Feb-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:

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

8330PAsTkPS_00061

CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-3

Description: Picric acid

Lot: 214121302-02

Solvent: Acetonitrile (50%)

Methanol (50%)

Hazards: Refer to SDS for complete safety information



Signal Word: Danger

Date Certified: Aug 9, 2019

Expiration: Sep 9, 2021

Sample Size: 1 mL

Components: 1

Storage Condition: Ambient (>5 °C)

Certified Reference Material



Component	CAS #	Purity %	Prepared Concentration ²	Certified Analyte Concentration ¹
		(HPLC)	(µg/mL)	(µg/mL)
Picric acid	88-89-1	99.1	100.1	99.2

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 $\pm 2.4\%$. 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

Certified By:



Larry Decker, Organic QC Manager



AccuStandard, Inc.
125 Market St., New Haven, CT 06513 USA
Tel: 203-786-5230 Fax: 203-786-5287

SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 - Product Identifiers

Catalog Name: M-8330-ADD-3

Description: Picric Acid in Acetonitrile/Methanol Blend

1.2 - Relevant Identified Uses of the Substance or Mixture

Laboratory Chemical Reference Material

1.3 - Supplier Details

Company: AccuStandard, Inc.

125 Market St.

New Haven, CT 06513 USA

Telephone Number: 203-786-5290

Fax: 203-786-5287

Email: edocs@accustandard.com

1.4 - Emergency Telephone Number

Emergency Phone #: AccuStandard, Inc.

1-203-502-7070 (USA)

+001-203-502-7070 (International)

24 hours / 7 days a week

SECTION 2 - HAZARDS IDENTIFICATION

2.1 - GHS Label Elements



Signal Word: Danger

Hazard Codes:

H225 - Highly Flammable (Flammable liquids, category 2)

H315 - Irritating to skin. (Skin corrosion/irritation, category 2)

H319 - Causes severe eye irritation. (Eye damage/irritation, category 4)

H332 - Harmful if inhaled. (Acute toxicity, inhalation, category 4)

H336 - Overexposure may cause dizziness, nausea, muscle weakness, narcosis and respiratory failure.

H360 - California Proposition 65 Warning: This product contains a component (or components) that may cause birth defects or other reproductive harm in a quantity greater than or equal to 0.1%.

H370 - Causes damage to organs. (Specific target organ toxicity, single exposure, category 1)

Precautionary Codes:

P202 - This product should only be used by persons trained in the safe handling of hazardous chemicals.

P233 - Store in a tightly closed container. (P404)

SECTION 2 - HAZARDS IDENTIFICATION - continued

2.1 - GHS Label Elements - continued

P280 - Do not breathe vapor.

P262 - Do not get in eyes, on skin or clothing

P264 - Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

P284 - Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), or a risk assessment shows air-purifying respirators are appropriate, use of a NIOSH/MSHA approved air supplied respirator is advised. Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges in absence of proper environmental control. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Engineering and/or administrative controls should be implemented to reduce exposure.

P338 - Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Assume adequate flushing by separating the eyelids with fingers.

P340 - Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

P352 - Skin contact: Wash thoroughly with soap and water. Get medical attention if irritation develops or persists.

2.2 - Other Hazards

2.2.1 - Symptom of Exposure Health/Environment

Highly Flammable (Flammable liquids, category 2)

Causes damage to organs. (Specific target organ toxicity, single exposure, category 1)

After ingestion or inhalation, initial symptoms may be only that of mild intoxication, but may become severe after 12 or 18 hours.

Overexposure may cause dizziness, nausea, muscle weakness, narcosis and respiratory failure.

2.2.2 - Potential Health Effects

Causes severe eye irritation. (Eye damage/irritation, category 2A)

Irritating to skin. (Skin corrosion/irritation, category 2)

May be harmful if absorbed through the skin. (Acute toxicity, dermal, category 5)

Irritating to mucous membrane and upper respiratory system.

Harmful if inhaled. (Acute toxicity, inhalation, category 4)

May be harmful if swallowed. (Acute toxicity, oral, category 5)

2.2.3 - Routes of Entry

Inhalation, ingestion or skin contact.

2.2.4 - Carcinogenicity

California Proposition 65 Warning: This product contains a component (or components) that may cause birth defects or other reproductive harm in a quantity greater than or equal to 0.1%.

SECTION 3 - COMPOSITION / ANALYTES DATA

Description: Picric Acid in Acetonitrile/Methanol Blend

Analyte	CAS #	% Concentration	ACGIH - TLV (mg/m³)			OSHA - PEL (mg/m³)		
			TWA	STEL	Skin	TWA	STEL	Skin
Picric acid	88-89-1	0.010	0.1			0.1		
Acetonitrile	75-05-8	49.995				70		
Methanol	67-56-1	49.995				260		

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable
Materials to Avoid: Acids
Bases
Oxidizers
Hazardous Decomposition: Hydrogen cyanide (HCN); Carbon oxides; Nitrogen oxides. Forms HCN when heated to about 120 °C
Hazardous Polymerization: Will not occur
Condition to Avoid: Heat; Contact with ignition sources

SECTION 11 - TOXICOLOGICAL INFORMATION**Human Health Toxicity**

See section 2 for specific toxicological information for the ingredients of this product.

LD50 (Oral): N/A

LD50 (Dermal): N/A

LC50 (Inhalation): N/A

No specific human health toxicity information is available for this product. Information provided is based on similar products.

WARNING: This product contains chemicals known to the state of California to cause birth defects or other reproductive harm.

No other information related to the toxicological properties of this product is available at this time.

SECTION 12 - ECOLOGICAL INFORMATION**Environmental Toxicity**

By complying with sections 6 and 7 there should be no release to the environment.

LC50 (Fish): N/A

EC50 (Aquatic Invertebrate): N/A

BCF: N/A

No specific environmental toxicity information is available for this product. It is not expected to be an environmental concern.

No other information related to the ecological properties of this product is available at this time.

SECTION 13 - DISPOSAL CONSIDERATIONS

Recycle or incinerate at any EPA approved facility or dispose in compliance with Federal, State and local regulations. Empty containers must be triple-rinsed prior to disposal.

SECTION 14 - TRANSPORT INFORMATION**Transportation Information (DOT/ATA)**

UN Number: UN1993

Class: 3

Packing Group: II

Proper Shipping Name: Flammable liquid, n.o.s. (Acetonitrile, Methanol)

Poison by Inhalation: No

Marine Pollutant: No

SECTION 15 - REGULATORY INFORMATION

WARNING: This product contains chemicals known to the state of California to cause birth defects or other reproductive harm.

All components are listed on the TSCA Inventory.

For laboratory, research and development use only. Not for manufacturing or commercial purposes.

In addition to federal and state regulations, local regulations may apply. Check with your local regulatory authorities.

SECTION 16 - OTHER INFORMATION

This document has been designed to meet the requirements of OSHA, ANSI, GHS and CLP's regulations. Chemicals are classified using the Globally Harmonized System for Classification and Labeling of Chemicals and CLP Regulation (EC) No. 1272/2008.

The statements contained herein are offered for informational purposes only and are based on technical data that we believe to be accurate. The manufacturer will not assume any liability for the accuracy and completeness of this information. Final determination of the suitability of the material is the responsibility of the user. Although certain hazards are described herein, the user should not presume that these are the only hazards that exist. Since conditions and manner of use are outside of the manufacturers control, we make

NO WARRANTY OF MERCHANTABILITY, EXPRESSED OR IMPLIED, AND ASSUME NO LIABILITY RESULTING FROM ITS USE.

Legend : N/A = Not Available ND = Not Determined NR = Not Regulated

Alteration of any information contained herein without written permission from the manufacturer is strictly prohibited.

HMIS/MSHA HAZARD INDEX

- 0 - Minimal
- 1 - Slight
- 2 - Moderate
- 3 - Serious
- 4 - Severe
- * - Additional Hazard

GHS HAZARD INDEX

Category 1 - Most Severe
Category 5 - Least Severe
**** End of Document ****

Reagent

8330Surrogate_00110



Environment Testing
TestAmerica



Reagent ID: 8330Surrogate_00110

good ✓

Description: 10ug/mL 1,2-Dinitrobenzene
No. of Bottles: 1
Storage Location: Explosives Prep
Reagent Volume: 250.000 mL
Creation Date: 12/17/2019
Open Date:
Container(s): 6017392
Comment: Stored Frozen. 6 month expiration date. Take 1mL of 1,2 Dinitrobenzene (8330SurrStock) and Dilute to 100 mL in ACN. Multiply recipe as needed.

Expiration Date: 05/17/2020
Laboratory: Eurofins TestAmerica, Denver
Prepared By: Bourger, David F
Solvent: Acetonitrile
Solvent Lot: ACN_00223

WL 88127 → C18

POS #6

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
1,2-Dinitrobenzene	8330SurrStkSS_00145	03/31/2023	1000.00000	ug/mL	10.00000	ug/mL
1,2-Dinitrobenzene (Surr)	8330SurrStkSS_00145	03/31/2023	1000.00000	ug/mL	10.00000	ug/mL
1,2-Dinitrobenzene	8330SurrStkSS_00158	07/31/2024	1000.00000	ug/mL	10.00000	ug/mL
1,2-Dinitrobenzene (Surr)	8330SurrStkSS_00158	07/31/2024	1000.00000	ug/mL	10.00000	ug/mL
1,2-Dinitrobenzene	8330SurrStkSS_00160	07/31/2024	1000.00000	ug/mL	10.00000	ug/mL
1,2-Dinitrobenzene (Surr)	8330SurrStkSS_00160	07/31/2024	1000.00000	ug/mL	10.00000	ug/mL
1,2-Dinitrobenzene	8330SurrStkSS_00161	07/31/2024	1000.00000	ug/mL	10.00000	ug/mL
1,2-Dinitrobenzene (Surr)	8330SurrStkSS_00161	07/31/2024	1000.00000	ug/mL	10.00000	ug/mL

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
8330SurrStkSS_001431453, 1000ug/mL	Restek 1,2-DNB SS	ASTD	03/31/23	Restek	A0135839	31453	0.25000	mL
5								
8330SurrStkSS_001531453, 1000ug/mL	Restek 1,2-DNB SS	ASTD	07/31/24	Restek	A0146866	31453	0.25000	mL
8								
8330SurrStkSS_001631453, 1000ug/mL	Restek 1,2-DNB SS	ASTD	07/31/24	Restek	A0150790	31453	1.00000	mL
0								
8330SurrStkSS_001631453, 1000ug/mL	Restek 1,2-DNB SS	ASTD	07/31/24	Restek	A0150790	31453	1.00000	mL
1								

Preliminary Report

Eurofins TestAmerica, Denver

LCS, Lab Control Sample Report

Sample Path: \\chromna\Denver\ChromData\CHHPLC_X\20191220-88127.b\12200006.D
 Lims ID: C18column:B16162 Inj. Date: 20-Dec-2019 11:19:02
 Worklist ID: 280-0088127-006 Instrument: CHHPLC_X3
 Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3535	Limits 2 3535	Limits 3 3535
\$ 9 1,2-Dinitrobenzene	0.4000	0.3843	96.1	83-119	63-127	

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

280-132090-A-2-A	280-132090-A-3-A	280-132090-A-4-A
280-132090-A-5-A	280-132090-A-6-A	280-132090-A-7-A
280-132090-A-8-A	280-132031-A-1-A	280-132031-A-2-A
280-132031-A-3-A	280-132031-A-4-A	280-131963-A-1-B
280-131963-B-2-A	280-131963-A-3-A	280-131963-B-4-A
280-131977-A-1-A	280-131977-B-2-A	280-131977-B-3-A
280-131977-A-4-A	280-131977-A-5-A	280-131977-A-6-A

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

280-131996-A-4-A	280-131996-A-5-A	280-131996-A-6-A
280-131996-A-7-A	280-131996-A-8-A	280-131996-A-9-A
280-131996-A-11-A	280-131996-A-12-A	280-131996-A-13-A
280-131996-A-14-A	280-131996-A-15-A	280-131996-A-1-A
280-131996-A-2-A	280-131996-A-3-A	280-131996-A-10-A

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

280-132013-A-1-A	600-197143-C-1-A	280-131992-C-1-A
280-131988-A-1-A	280-131988-A-2-A	280-131988-A-3-A
280-131988-B-4-A		

Reagent

8330Surrogate_00114

Preliminary Report

Eurofins TestAmerica, Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\G2_LUNA\20200507-91339.b\05070004.D

Lims ID: CaCl2_Sol_00054

Inj. Date: 07-May-2020 12:25:53

Worklist ID: 280-0091339-004

Instrument: CHHPLC_G2_LUNA

Method: G2_8330_Luna

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 0B_Sonc_
\$ 10 1,2-Dinitrobenzene	0.2000	0.1868	93.4	83-122

Samples for Limit Group: 1, Lims Prep Method: 8330B_Sonc_10g
280-135356-A-2-D

Reagent

8330Surrogate_00116

Preliminary ReportEurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200515-91560.b\05150003.D
Lims ID: MeOH=0000129165
Client ID:
Sample Type: Client
Inject. Date: 15-May-2020 15:31:37 ALS Bottle#: 6 Worklist Smp#: 3
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: MeOH=0000129165
Misc. Info.: 280-0091560-003
Operator ID: CB Instrument ID: CHHPLC_X3
Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200515-91560.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 16:18:31 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0318

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,2-Dinitrobenzene	0.5000	0.4870	97.40

Reagent

8330SurrStkSS_00145



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 Guide 34 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.: 31453 Lot No.: A0135839
Description: 8330 Surrogate Mix
8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: March 31, 2023 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	1,2-Dinitrobenzene CAS # 528-29-0 Purity 99% (Lot MKBW2921V)	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric	
			+/- 56.0822	µg/mL	Unstressed	
			+/- 57.3938	µg/mL	Stressed	

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

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

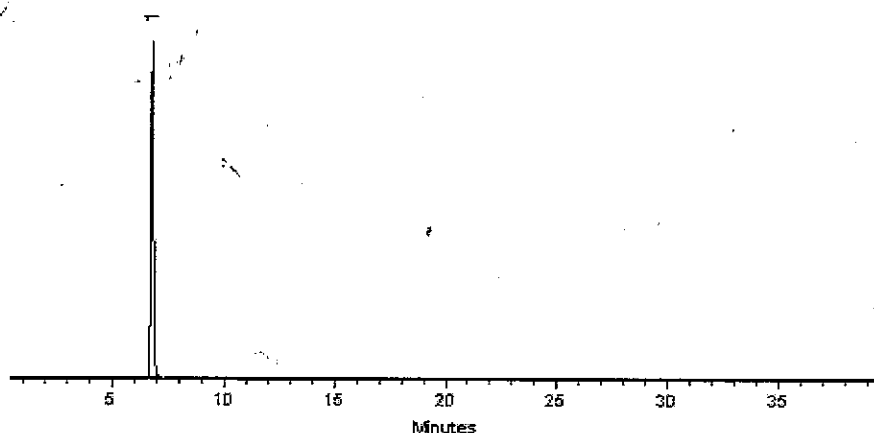
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 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.

Dustin J. Lidgett

Dustin Lidgett - Mix Technician

Date Mixed: 05-Mar-2018

Balance: 1128360905

Jennifer L. Pollino

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 09-Mar-2018

Manufactured under Restek's ISO 9001:2008
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 Guides 34 and 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:

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

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

Reagent

8330SurrStkSS_00157



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31453 Lot No.: A0146866
Description : 8330 Surrogate Mix
8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : March 31, 2024 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,2-Dinitrobenzene CAS # 528-29-0 Purity 99% (Lot MKCH6067)	1,003.0 µg/mL	+/- 5.9575 µg/mL Gravimetric +/- 56.2504 µg/mL Unstressed +/- 57.5660 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:

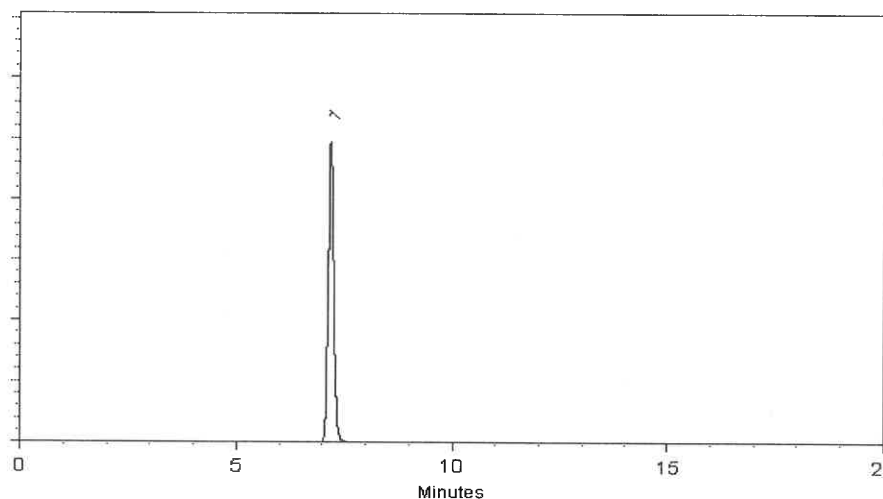
water:methanol (44:56 V/V)

Mobile Phase B:**Mobile Phase Composition:**

100%A

Det. Type:

Wavelength: 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.

Michael Mage

Date Mixed: 11-Mar-2019 Balance: 1128353505

Fang-Yun Lo
Fang-Yun Lo - GC Analyst

Date Passed: 14-Mar-2019

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

Reagent

8330SurrStkSS_00158



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31453 Lot No.: A0150790
Description : 8330 Surrogate Mix
8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2024 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.: K=2)			
1	1,2-Dinitrobenzene	1,003.0 µg/mL	+/-	5.9575	µg/mL	Gravimetric
	CAS # 528-29-0		+/-	56.2504	µg/mL	Unstressed
	Purity 99%		+/-	57.5660	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:

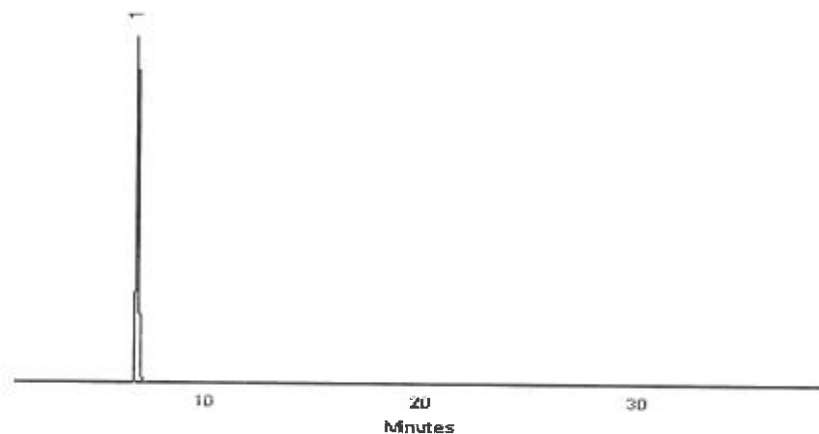
water:methanol (44:56 V/V)

Mobile Phase B:**Mobile Phase Composition:**

100%A

Det. Type:

Wavelength: 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.

Walker Workman - Operations Technician I

Date Mixed: 12-Jul-2019

Balance: 1128360905

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 16-Jul-2019

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

Reagent

8330SurrStkSS_00160



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31453 **Lot No.:** A0150790
Description : 8330 Surrogate Mix
8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2024 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.: K=2)			
1	1,2-Dinitrobenzene	1,003.0 µg/mL	+/-	5.9575	µg/mL	Gravimetric
	CAS # 528-29-0		+/-	56.2504	µg/mL	Unstressed
	Purity 99%		+/-	57.5660	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:

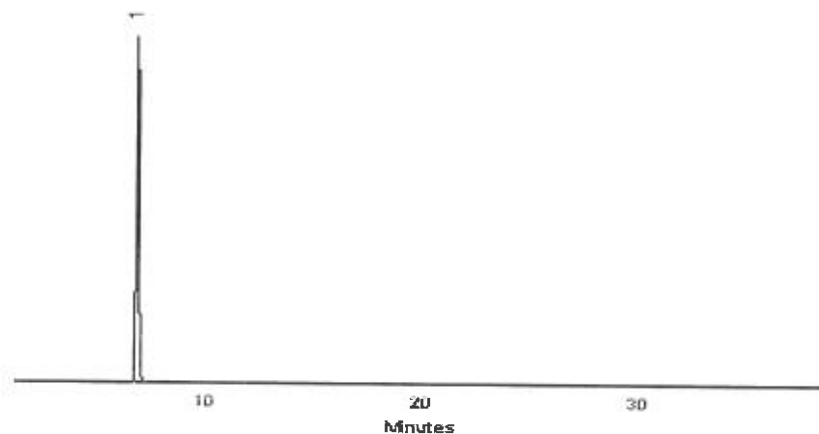
water:methanol (44:56 V/V)

Mobile Phase B:**Mobile Phase Composition:**

100%A

Det. Type:

Wavelength: 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.

Walker Workman - Operations Technician I

Date Mixed: 12-Jul-2019

Balance: 1128360905

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 16-Jul-2019

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

Reagent

8330SurrStkSS_00161



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31453 **Lot No.:** A0150790
Description : 8330 Surrogate Mix
8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2024 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.: K=2)			
1	1,2-Dinitrobenzene	1,003.0 µg/mL	+/-	5.9575	µg/mL	Gravimetric
	CAS # 528-29-0		+/-	56.2504	µg/mL	Unstressed
	Purity 99%		+/-	57.5660	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:

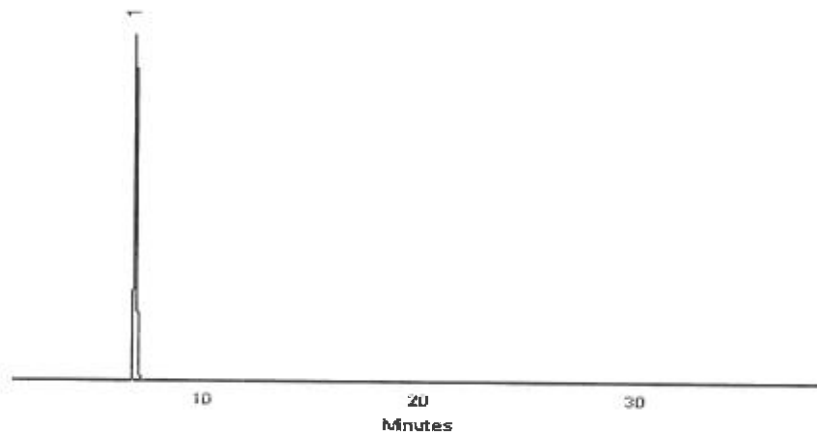
water:methanol (44:56 V/V)

Mobile Phase B:**Mobile Phase Composition:**

100%A

Det. Type:

Wavelength: 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.

Walker Workman - Operations Technician I

Date Mixed: 12-Jul-2019

Balance: 1128360905

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 16-Jul-2019

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

Reagent

8330SurrStkSS_00168



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31453 Lot No.: A0155113
Description : 8330 Surrogate Mix
8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : November 30, 2024 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,2-Dinitrobenzene		1,004.0 μg/mL	+/- 5.9635	μg/mL	Gravimetric
	CAS #	528-29-0		+/- 56.3065	μg/mL	Unstressed
	Purity	99%		+/- 57.6234	μg/mL	Stressed
	(Lot MKCH6067)					

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

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

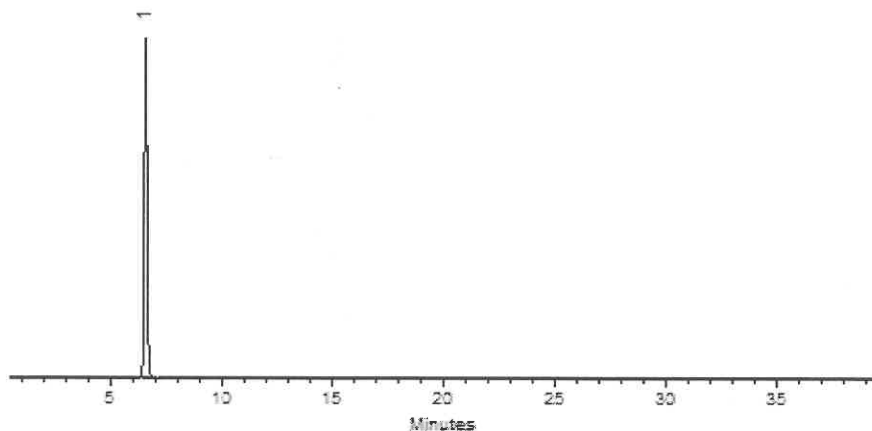
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 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.

Miranda Kline

Miranda Kline - Operations Technician I

Date Mixed: 15-Nov-2019 **Balance:** 1128342314

Jennifer J Pollino

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 20-Nov-2019

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

Reagent

8330SurrStkSS_00169



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31453 Lot No.: A0155113
Description : 8330 Surrogate Mix
8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : November 30, 2024 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,2-Dinitrobenzene CAS # 528-29-0 Purity 99% (Lot MKCH6067)	1,004.0 µg/mL	+/- 5.9635 µg/mL Gravimetric +/- 56.3065 µg/mL Unstressed +/- 57.6234 µg/mL Stressed

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

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

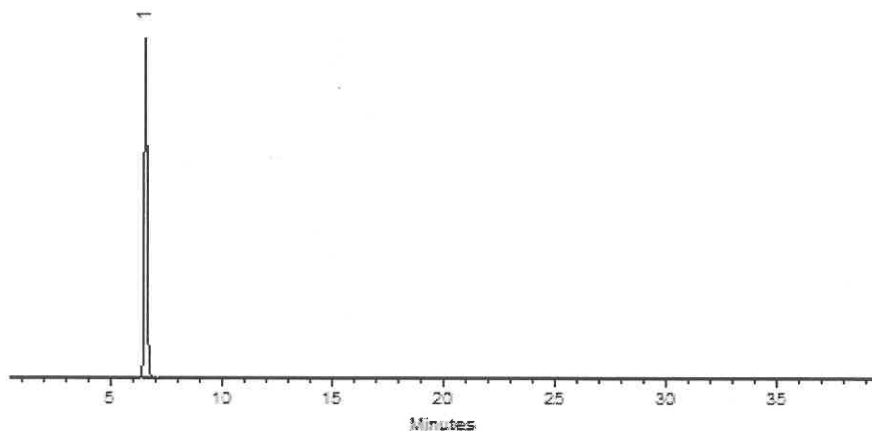
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 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.

Miranda Kline

Miranda Kline - Operations Technician I

Date Mixed: 15-Nov-2019 **Balance:** 1128342314

Jennifer J Pollino

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 20-Nov-2019

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

Reagent

8330SurrStock_00164



CERTIFICATE OF ANALYSIS

Catalog No: M-8330-SS

Description: 1,2-Dinitrobenzene

Lot: 216071012

Solvent: Methanol

Hazards: **HIGHLY FLAMMABLE** - Refer to SDS for safety info

Date Certified: Jul 1, 2016

Expiration: Jul 1, 2026

Sample Size: 1 mL

Components: 1

Storage Condition: Ambient (>5 °C)

Included on ISO/IEC 17025 Scope of Accreditation: Yes

Included on ISO Guide 34 Scope of Accreditation: Yes



Danger 2

Component	CAS #	Purity % (GC/FID)	Prepared Concentration ¹ (µg/mL)	Certified Analyte Concentration ² (µg/mL)
1,2-Dinitrobenzene	528-29-0	100.0	100.0	100.1

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

¹ All weights are traceable through NIST, Test No. 622-275872-11

² Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent 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.

See reverse side for additional information

Certified By:

Larry Dacker, Organic QC Manager

Reagent

Alk stk std_00017



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	SS148	Quality Test / Release Date	03/20/2019
Lot Number	191517	Expiration Date	Mar/2021
Description	SODIUM CARBONATE SOLUTION, 1N		
Country of Origin	United States		
Chemical Origin			
BSE/TSE Comment			
Chemical Comment			

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, Colorless liquid
NORMALITY		Inclusive Between 0.995 - 1.000	0.999
COLOR	APHA	<= 5	<5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST

Quality Assurance Specialist - Certificate of Analysis 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 BR ICV_00018

Certificate of Analysis

Bromide Standard, 1000 ppm Br⁻

Lot Number: 2907E22

Product Number: 1180

Manufacture Date: JUL 23, 2019

Expiration Date: JAN 2021

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
1180-8	250 mL natural poly	18 months

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



Sharon Travers (07/23/2019)

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

IC CL cal_00060



SPEXertificate®



Certificate of Reference Material

Catalog Number: AS-CL9-2X

Lot No. 4-176CL-2X

Description: 1000 µg/mL Chloride

Matrix: H₂O

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: 1001 µg/mL ±5 µg/mL

Certified Value is Traceable to: 3182*

* - indicates NIST SRM

† - indicates SPEX CertiPrep CRM (when NIST SRM is not available)

‡ - prepared gravimetrically

The CRM is prepared gravimetrically using high purity Sodium Chloride, Lot# 09141H. 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: 1004 µg/mL

Method: Precipitation using Silver Nitrate. Filter, dry and weigh as AgCl.

Instrumental Analysis by Ion Chromatography: 997 µg/mL

Uncertified Properties

Trace Ionic Impurities in the Actual Solution via IC Analysis:

Element	µg/mL	Element	µg/mL
Br ⁻	<0.01	NO ₃ ⁻	<0.06
F ⁻	<0.05	PO ₄ ⁻³	<0.03
NO ₂ ⁻	<0.05	SO ₄ ⁻²	<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:

JAN - - 2020

Certifying Officer:

Katherine Cullinan
Katherine Cullinan, QC Manager

Page 1 of 2

Rev. 0

Report of Certification

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001 (certified by DQS), ISO 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 and labels
- ISO Guide 35: Reference Materials – General and principals for certification
- 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 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 crmsales@spexcsp.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 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
- $U = k u_c$ 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 $u_c = \sqrt{\sum u_i^2}$

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 crmsales@spexcsp.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.

SPEX CertiPrep

Your Science is Our Passion.®

203 Norcross Ave, Metuchen, NJ 08840
www.spexcrtiprep.com • E-mail: crmsales@spexcsp.com
Phone: 1-800-LAB-SPEX Fax: 732-603-9647

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Page 2 of 2

Reagent

IC SO4 ICV_00021

Certificate of Analysis

PRODUCT:	1000 mg/L Sulfate (SO ₄)
CATALOG NUMBER:	062 - 125 mL; 995 - 500 mL
LOT NUMBER:	100819m
ISSUE DATE:	August 23, 2019
REVISION DATE:	Original
STARTING MATERIAL:	Potassium Sulfate (K ₂ SO ₄)
CERTIFIED CONCENTRATION¹:	1000 mg/L
UNCERTAINTY²:	0.6%
MATRIX:	18 megohm deionized water
DENSITY:	0.9986 ± 0.0010 g/mL at 19.7°C and 757 mm Hg
TRACEABILITY³:	97.6%
NIST/SRM:	3181 Sulfate
VERIFICATION METHOD:	Ion Chromatography
STORAGE:	Store at 20-25°C

1. The **Certified Concentration** is the actual made-to concentration confirmed by ERA analytical verification.
2. The stated **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation of the product and includes uncertainty related to the starting material used and the volumetric and gravimetric measurements made. The method of calculating uncertainty is taken from the ISO Guide to the Expression of Uncertainty in Measurement (current version). The uncertainty applies to the product as supplied and does not take into account any required or optional dilutions and/or preparations the laboratory may perform while using this product.
3. Traceability ((% Recovery Certified Standard)/(% Recovery NIST SRM))* 100.

The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs. Where a NIST SRM is not available, the product is metrologically traceable through an unbroken chain of calibrations to NIST weights, each having stated uncertainties and utilizing measurement standards that are appropriate for the physical and/or chemical property being measured.

This standard **expires 08/06/2021**. The certified values are monitored and 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.

This product is intended to be used as either a calibration standard or a quality control check of the entire analytical process for the analytes/matrix included in the standard.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or email to info@eraqc.com

Certifying Officer: Brian Miller - Product Line Manager

ISO/IEC GUIDE 34:2009



REFERENCE MATERIAL PRODUCER
CERTIFICATE NO. 1539-03

ISO/IEC 17025:2005



CHEMICAL TESTING LABORATORY
CERTIFICATE NO. 1539-02

Reagent

IC sulfatecal_00057



SPEXertificate®

Certificate of Reference Material



Catalog Number: AS-SO49-2X

Lot No. 4-197SO4-2X

Description: 1000 µg/mL Sulfate

EXPIRES JUN. 30, 2020

Matrix: H₂O

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: 1001 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# MAN1018SO4. 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: 1002 µg/mL

Method: Precipitation using Barium Chloride. Filter, ignite, and weigh as BaSO₄.

Instrumental Analysis by Ion Chromatography: 999 µg/mL

Uncertified Properties

Trace Ionic Impurities in the Actual Solution via IC Analysis:

Element	µg/mL	Element	µg/mL
Br ⁻	<0.006	NO ₂ ⁻	<0.004
Cl ⁻	<0.01	NO ₃ ⁻	<0.006
F ⁻	<0.008	PO ₄ ⁻³	<0.01

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:

JUN -- 2019

Certifying Officer:

Katherine Cullinan
Katherine Cullinan, QC Manager

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Material Source:

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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 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:

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Certification Report:

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Legal Notice:

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Reagent

IC sulfatecal_00059



Reference Materials Producer
Cert #2495.01

SPEXertificate®

Certificate of Reference Material



Chemical Testing
Cert #2495.02

Catalog Number: AS-SO49-2X

Lot No. 4-197SO4-2X

Description: 1000 µg/mL Sulfate

Matrix: H₂O

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: 1001 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# MAN1018SO4. 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: 1002 µg/mL

Method: Precipitation using Barium Chloride. Filter, ignite, and weigh as BaSO₄.

Instrumental Analysis by Ion Chromatography: 999 µg/mL

Uncertified Properties

Trace Ionic Impurities in the Actual Solution via IC Analysis:

Element	µg/mL	Element	µg/mL
Br ⁻	<0.006	NO ₂ ⁻	<0.004
Cl ⁻	<0.01	NO ₃ ⁻	<0.006
F ⁻	<0.008	PO ₄ ⁻³	<0.01

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: JAN - - 2020

Certifying Officer:

Katherine Cullinan
Katherine Cullinan, QC Manager

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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 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.

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- $X = x \pm U$ where X =certified value, U =expanded uncertainty, x =property value
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- u_c =combined standard uncertainty obtained by combining the individual element standard uncertainty components u_i , and $u_c = \sqrt{\sum u_i^2}$

Certification Report:

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SPEX CertiPrep.

Your Science is Our Passion.®

203 Norcross Ave, Metuchen, NJ 08840
www.spexcrtiprep.com • E-mail: crmsales@spexcsp.com
Phone: 732-603-1069 • 732-603-9647



Reagent

MNX , TNX , DNX _ 00032



Certificate of Analysis ISO Guide 34

Custom Standard

Product Number: CUS-23984

Page: 1 of 1

Lot Number: CS-5628

Lot Issue Date: 16-Nov-2018

Expiration Date: 31-Dec-2019

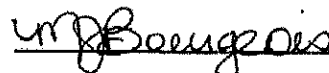
This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with Agilent Technologies ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)		RM12428	100.3 ± 0.5 µg/mL
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane		RM12428	100.1 ± 0.5 µg/mL
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane		RM12428	116.7 ± 0.6 µg/mL

Matrix: acetonitrile

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

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.


Monica Bourgeois
QMS Representative



ISO Guide 34 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System



ISO17025 Cert No.
AT-1937

ORG ver 1.1

Reagent

MNX , TNX , DNX _ 00042



Certificate of Analysis

Product Name: Custom Standard

Product Number: CUS-23984

Lot Issue Date: 24-Jan-2020

Lot Number: 0006516106

Expiration Date: 28-Feb-2021

Description:

This analytical reference material (RM) 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 below.

Analyte	CAS#	Analyte Lot	Concentration $\pm$ Uncertainty
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)	N/A	RM12426	100.3 $\pm$ 0.5 μ g/mL
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane (DNX)	N/A	RM12428	100.4 $\pm$ 0.5 μ g/mL
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX)	N/A	RM12428	117.1 $\pm$ 0.6 μ g/mL

Matrix: acetonitrile

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

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

Intended Use:

This RM 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.

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.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.



ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO
9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 2

www.agilent.com/quality/
CSD-QA-015.1



ISO 17025 Cert
No. AT-1937

Certificate of Analysis

Product Number: CUS-23984

Lot Number: 0006516106

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



ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO
9001 Quality Management System. Cert # 56 100 18560026

Page: 2 of 2

www.agilent.com/quality/
CSD-QA-015.1



ISO 17025 Cert
No. AT-1937

Reagent

MNX , TNX , DNX _ 00043



Certificate of Analysis

Product Name: Custom Standard

Product Number: CUS-23984

Lot Issue Date: 24-Jan-2020

Lot Number: 0006516106

Expiration Date: 28-Feb-2021

Description:

This analytical reference material (RM) 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 below.

Analyte	CAS#	Analyte Lot	Concentration $\pm$ Uncertainty
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)	N/A	RM12426	100.3 $\pm$ 0.5 μ g/mL
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane (DNX)	N/A	RM12428	100.4 $\pm$ 0.5 μ g/mL
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX)	N/A	RM12428	117.1 $\pm$ 0.6 μ g/mL

Matrix: acetonitrile

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

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

Intended Use:

This RM 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.

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.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.



ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 2

www.agilent.com/quality/
CSD-QA-015.1



ISO 17025 Cert
No. AT-1937

Certificate of Analysis

Product Number: CUS-23984

Lot Number: 0006516106

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



ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO
9001 Quality Management System. Cert # 56 100 18560026

Page: 2 of 2

www.agilent.com/quality/
CSD-QA-015.1



ISO 17025 Cert
No. AT-1937

Reagent

MNX , TNX , DNX _ 00046



Certificate of Analysis

Product Name: Custom Standard

Product Number: CUS-23984

Lot Issue Date: 24-Jan-2020

Lot Number: 0006516106

Expiration Date: 28-Feb-2021

Description:

This analytical reference material (RM) 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 below.

Analyte	CAS#	Analyte Lot	Concentration $\pm$ Uncertainty
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)	N/A	RM12426	100.3 $\pm$ 0.5 μ g/mL
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane (DNX)	N/A	RM12428	100.4 $\pm$ 0.5 μ g/mL
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX)	N/A	RM12428	117.1 $\pm$ 0.6 μ g/mL

Matrix: acetonitrile

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

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

Intended Use:

This RM 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.

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.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.



ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO
9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 2

www.agilent.com/quality/
CSD-QA-015.1



ISO 17025 Cert
No. AT-1937

Certificate of Analysis

Product Number: CUS-23984

Lot Number: 0006516106

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



ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO
9001 Quality Management System. Cert # 56 100 18560026

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www.agilent.com/quality/
CSD-QA-015.1



ISO 17025 Cert
No. AT-1937

Reagent

NH3 CAL STD_00031

Certificate of Analysis

Ammonia Nitrogen Standard, 1000 ppm N (1216 ppm NH₃)

Lot Number: 2902E25

Product Number: 5455

Manufacture Date: FEB 25, 2019

Expiration Date: AUG 2020

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
Ammonium Chloride	12125-02-9	High Purity

Test	Specification	Result
Appearance	Colorless liquid	Passed
Nitrogen (N)	995-1005 ppm	1000 ppm

Specification	Reference
Ammonia Solution, Stock (1.0 mL = 1.0 mg ammonia nitrogen)	ASTM (D 3590 A)
Ammonia Solution, Stock (1.0 mL = 1.0 mg ammonium nitrogen)	ASTM (D 3590 B)
Stock Ammonium Chloride Solution	APHA (4500-CN- L)
Stock Ammonium Solution	APHA (4500-NH3 C)
Stock Ammonium chloride Solution	APHA (4500-NH3 D)
Stock Ammonium Solution	APHA (4500-NH3 F)
Ammonium Chloride, Stock Solution, 1.0 mL = 1.0 mg NH ₃ -N	EPA (351.2)
Ammonium Chloride, Stock Solution, 1.0 mL = 1.0 mg NH ₃ -N	EPA (350.2)
Ammonium Chloride, Stock Solution, 1.0 mL = 1.0 mg NH ₃ -N	EPA (350.3)
Ammonium Chloride, Stock Solution, 1.0 mL = 1.0 mg NH ₃ -N	EPA (351.4)
Stock Solution, 1.0 mL = 1.0 mg NH ₃ -N	EPA (350.1)
Ammonium Chloride, Stock Solution, 1.0 mL = 1.0 mg NH ₃ -N	EPA (351.3)

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)
5455-16	500 mL natural poly	18 months
5455-32	1 L natural poly	18 months

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



Tara Jones (02/25/2019)

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

NH3 ICV STD_00027

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Ion Chromatography Solution
Catalog Number: ICNNH41
Lot Number: N2-NH669544
Matrix: H₂O
Value / Analyte(s): 1 000 µg/mL ea:
Ammonium as N
Starting Material: Ammonium chloride
Starting Material Lot#: 1736
Starting Material Purity: 99.0000%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 3 µg/mL
Density: 0.999 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1005 ± 3 µg/mL**
IC Assay NIST SRM 194a Lot Number: 194a

Assay Method #2 **997 ± 3 µg/mL**
Fajans NIST SRM 999c Lot Number: 999c

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two Methods

Certified Value, $X_{\text{CRM/RM}}$, where two methods of characterization are used is the weighted mean of the two results:

$$X_{\text{CRM/RM}} = [(w_a)(X_a) + (w_b)(X_b)]$$

X_a = mean of Assay Method A with standard uncertainty $u_{\text{char a}}$

X_b = mean of Assay Method B with standard uncertainty $u_{\text{char b}}$

w_a and w_b = the weighting factors for each method calculated using the inverse square of the variance:

$$w_a = (1/u_{\text{char a}})^2 / ((1/u_{\text{char a}})^2 + (1/u_{\text{char b}})^2)$$

$$w_b = (1/u_{\text{char b}})^2 / ((1/u_{\text{char a}})^2 + (1/u_{\text{char b}})^2)$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char a\&b}}^2 + u_{\text{bb}}^2 + u_{\text{its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2 in all cases at Inorganic Ventures

$u_{\text{char a\&b}} = [(w_a)^2 (u_{\text{char a}})^2 + (w_b)^2 (u_{\text{char b}})^2]^{1/2}$ where $u_{\text{char a}}$ and $u_{\text{char b}}$ are the square root of the sum of the squares of errors from characterization which include instrument measurement, density, NIST SRM uncertainty, weighing, and volume

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = \text{mean of Assay Method A with standard uncertainty } u_{\text{char a}}$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char a}}^2 + u_{\text{bb}}^2 + u_{\text{its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2 in all cases at Inorganic Ventures

$u_{\text{char a}}$ = square root of the sum of the squares of the errors from characterization which include instrumental measurement, density, NIST SRM uncertainty, weighing, and volume

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

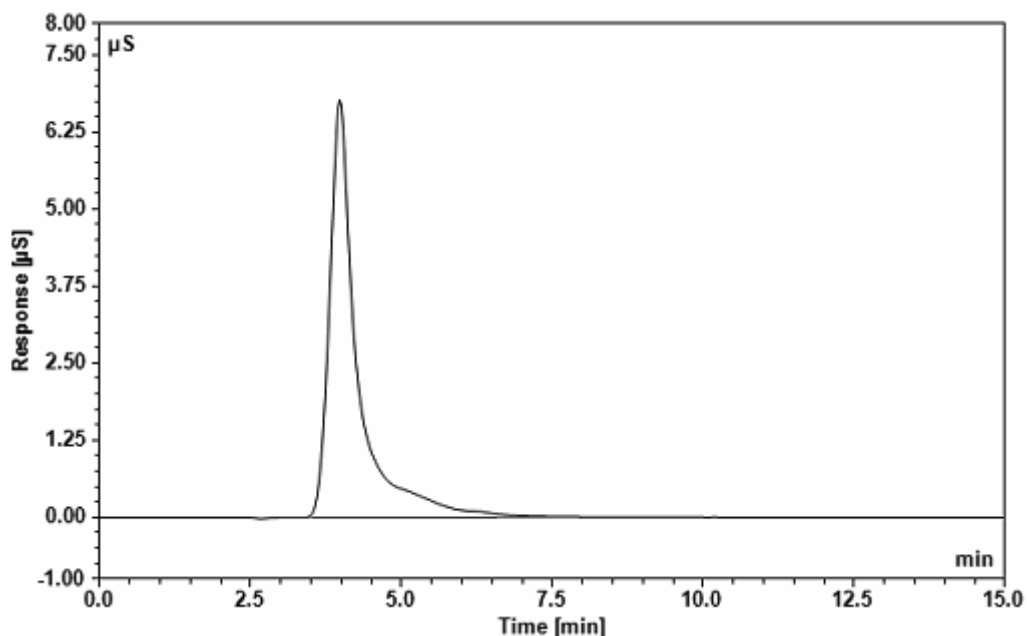
4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 CHROMATOGRAM



Dionex ICS-2000 Ion Chromatograph

Analytical Column: IonPac CS18 2 x 250 mm

Eluent: 10 mM MSA

Guard Column: IonPac CG18 2 x 50 mm

Eluent Flow Rate: 0.25 mL/min

Anion Self Regen

Column Temp: 35 °C

Suppressor/ N/A

Cell Temp: 35 °C

Chemical

Suppression:

Scale X-Axis: minutes

Cation Self Regen

Scale Y-Axis: 8 µS/cm

Suppressor/ CERS 500 2mm

Chemical

Concentration: 10 µg/g

Suppression:

Suppressor 8 mA

Current/ Chemical

Suppressant:

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 01, 2018

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 01, 2022**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

James King Jr
Chemist, Technical Manager



Certificate Approved By:

Michael Booth
Supervisor, Quality Control



Certifying Officer:

Paul Gaines
CEO, Senior Technical Director



Reagent

NOXT ICV STD_00023

Certificate of Analysis

PRODUCT:	1000 mg/L Nitrate as N ($\text{NO}_3\text{-N}$)
CATALOG NUMBER:	052 -125 mL; 991 - 500 mL
LOT NUMBER:	130319m
ISSUE DATE:	April 3, 2019
REVISION DATE:	Original
STARTING MATERIAL:	Potassium Nitrate (KNO_3)
CERTIFIED CONCENTRATION¹:	1000 mg/L
UNCERTAINTY²:	0.6%
MATRIX:	18 megohm deionized water
DENSITY:	1.0041 $\pm$ 0.0004 g/mL at 18.4°C and 754 mm Hg
TRACEABILITY³:	101%
NIST/SRM:	3185 Nitrate
VERIFICATION METHOD:	Ion Chromatography
STORAGE:	Store at 20-25°C

1. The **Certified Concentration** is the actual made-to concentration confirmed by ERA analytical verification.
2. The stated **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation of the product and includes uncertainty related to the starting material used and the volumetric and gravimetric measurements made. The method of calculating uncertainty is taken from the ISO Guide to the Expression of Uncertainty in Measurement (current version). The uncertainty applies to the product as supplied and does not take into account any required or optional dilutions and/or preparations the laboratory may perform while using this product.
3. Traceability ((% Recovery Certified Standard)/(% Recovery NIST SRM))* 100.

The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs. Where a NIST SRM is not available, the product is metrologically traceable through an unbroken chain of calibrations to NIST weights, each having stated uncertainties and utilizing measurement standards that are appropriate for the physical and/or chemical property being measured.

This standard **expires 3/11/2021**. The certified values are monitored and 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.

This product is intended to be used as either a calibration standard or a quality control check of the entire analytical process for the analytes/matrix included in the standard.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or email to info@eraqc.com

Certifying Officer: Brian Miller - Product Line Manager

ISO/IEC GUIDE 34:2009

ISO/IEC 17025:2005



REFERENCE MATERIAL PRODUCER
CERTIFICATE NO. 1539.03



CHEMICAL TESTING LABORATORY
CERTIFICATE NO. 1539.02

Reagent

PicricARestek_00092



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31499 **Lot No.:** A0139087
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 : June 30, 2023 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Picric Acid	1,001.0 µg/mL	+/- 5.9459	µg/mL	Gravimetric	
	CAS # 88-89-1 (Lot 06130CU)		+/- 54.8400	µg/mL	Unstressed	
	Purity 97%		+/- 63.9488	µg/mL	Stressed	

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

Specific Reference Material Notes:

This is a derivatized analysis.

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

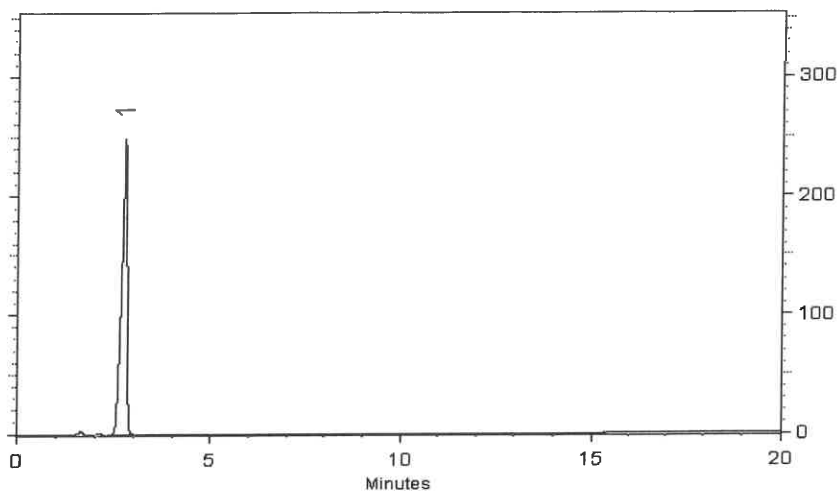
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210 nm

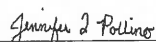


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Matt Fragassi - Mix Technician

Date Mixed: 20-Jun-2018

Balance: B345965662


Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 28-Jun-2018

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

Reagent

RSK175methane_00010

CERTIFICATE OF BATCH ANALYSIS

Grade of Product: CP

Customer:	SIGMA-ALDRICH	Reference Number:	160-401480003-1
Part Number:	ME CPP14C514	Cylinder Volume:	14.0 LG
Cylinder Analyzed:	ST0000198540	Cylinder Pressure:	240 PSIG
Laboratory:	124 - Plumsteadville - PA	Valve Outlet:	160
Analysis Date:	Apr 16, 2019		
Lot Number:	160-401480003-1		

Expiration Date: Apr 16, 2022

ANALYTICAL RESULTS

Component	Requested Purity	Certified Concentration
METHANE	> 99.0 %	> 99.0 %

Cylinders in Batch:

ST0000198540, ST0000198541, ST0000198542, ST0000198543

Notes:MANUFACTURE DATE 4-16-2019

PO# P481562

P/N 22562

Impurities verified against analytical standards traceable to NIST by weight and/or analysis.

Approved for Release

Reagent

RSK7gasMathes_00027

U.S.



Reagent

RSK7gasMathes_00031



Analysis Report

To: MATHESON LINWELD
4705 NOME ST
P O BOX 39126
DENVER, CO 80239

MTG Customer No: 504445

Manufacturing Location
1700 SCEPTER ROAD
WAVERLY, TN 37185

Product: Multi-Component Mixture

Cylinder Size: 4
Valve: CGA 350 SS

Grade: CERTIFIED
MTG Part No: G2892238

Contents:
Net: 7.57 ft³ @ 21°C

Pressure: 1400 psia @ 70°F, 9653 kPa @ 21°C

CYLINDER NUMBER(S)
*DL035162

	Requested Concentration	Certified Concentration	Units	Blend Tolerance	Certified Accuracy
Butane	1.00	1.00	%	±10%	±2%
Acetylene	1.00	1.00	%	±10%	±2%
Isobutylene	1.00	1.01	%	±10%	±2%
Propane	1.00	1.00	%	±10%	±2%
Ethane	1.00	1.01	%	±10%	±2%
Ethylene	1.00	1.00	%	±10%	±2%
Methane	1.00	1.00	%	±10%	±2%
Nitrogen	Balance	Balance			

* Indicates the actual cylinder(s) analyzed.

Lot No: 9300606746
Fill Date: 02/23/2020
Expiration Date: 03/09/2022
Analysis Date: 03/09/2020

TRACEABILITY

COMMENTS

Unless otherwise indicated, Matheson Tri-Gas terms and conditions govern the product data contained herein. This document was issued electronically and data validated by electronic signature. For further information visit www.matheson-trigas.com.

Eric Popa - Analyst

03/09/2020
Date

Meriah Boyett - QA Approval

03/09/2020
Date

Reagent

SFD CAL STK_00006

Certificate of Analysis

This is to certify that units of the above mentioned lot number were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Acros Organics expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Unless otherwise stated, these products are not intended for dialysis, parenteral, or injectable use without further processing. The following are the actual analytical results obtained:

Catalog Number	38706	Quality Test / Release Date 09/06/2018
Lot Number	A0390872	
Description	Sodium sulfide nonahydrate, 98+%, extra pure	
Country of Origin	INDIA	
Declaration of Origin	synthetic	

BSE/TSE comment	
-----------------	--

Chemical Comment	
------------------	--

Result name	Units	Specifications	Test Value
Appearance (Color)		Colorless to light yellow	Light yellow
Appearance (Form)		Adhering crystals and/or chunks	Adhering crystals and chunks
Titration Iodimetric		32.0 to 38.0 % (Na ₂ S)	35.9 % (Na ₂ S)
Total nitrogen (as N)		=<0.005 %	=<0.005 %
Sulfite (as SO ₂)		=<2000 ppm	=<2000 ppm
Thiosulphate (S ₂ O ₃)		=<5000 ppm	=<5000 ppm



L. Van den Broek, QA Manager

Issued: 09-06-2018

Acros Organics
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Reagent

TKN CAL STD_00017

Certificate of Analysis

TKN Calibration Standard - 1000 mg/L

Catalog Number: IS-009, IS-009-500
Lot Number: 010617
Manufacture Date: 01/06/17
Certified Date: 01/12/17

Expiration: 01/31/2021
Matrix: Water
Hazards: Irritant
(See MSDS)

<u>Bulk Number</u>	<u>Analyte</u>	<u>CAS #</u>	<u>Purity</u>	<u>Certified Concentration</u> (mg/L TKN)
W-1477-25	TKN from Glycine	56-40-6	99.4%	1000 ± 4.60

Packaging, Storage, Instructions For Use

Store at room temperature (15-30°C). After opening, this solution should be stored tightly capped at 2-8°C.

This certified reference material (CRM) is packaged in low density polyethylene. Allow to equilibrate to room temperature before use. Small aliquots should be poured out of the bottle rather than directly pipetted out of bottle in order to prevent contamination or premature degradation. A 1 mL sample size is recommended. Smaller sample volumes may negatively affect estimated uncertainty.

Traceability Information

Analyte Source Materials: The highest purity analyte source materials are used in the manufacture of this CRM. The actual purity is referenced above. Analyte source material purity and associated uncertainty has been analytically verified against appropriate NIST SRMs, if available.

Method: Certified concentration confirmed by HPLC analysis against an independent reference standard with n=3.

Balance: All analytical balances are calibrated on a semiannual basis by an ISO 17025 accredited calibration laboratory and are traceable to NIST. Traceable Calibration Certificate available upon request.

All balances are checked daily by an in-house standard operating procedure. The weights used for this daily verification are calibrated annually by an ISO 17025 accredited calibration laboratory and are certified traceable to NIST. Certificate of Calibration and Traceability available upon request.

Thermometer: All thermometers are NIST traceable through thermometers that are calibrated annually by an ISO 17025 accredited calibration laboratory.

Glassware: All glassware used in the manufacture of our CRMs is Class A. An in-house standard operating procedure is used to verify all glassware prior to it being placed into service. Volumetric pipetors are calibrated every four months by an ISO 17025 accredited calibration laboratory.



Catalog Number: IS-009, IS-009-500

Lot Number: 010617

Intended Uses

- Calibration of analytical instruments
- Validation of analytical methods
- Preparation of working level reference materials, i.e. "check standards"
- Detection limit studies

Uncertainty

The $\pm$ uncertainty associated with the certified concentration is the expanded uncertainty at 95% confidence interval (CI) with K=2. This expanded uncertainty incorporates contributions from manufacturing, homogeneity, and stability.

Homogeneity

This CRM was thoroughly mixed in production. Batch homogeneity was established through analysis of samples chosen at random. A minimum 1 mL sample size is recommended.

Stability/Expiration

The stability of this CRM is based on short-term and long-term monitoring of the certified concentration. The expiration date is guaranteed to be valid from the manufacture date and is based on results of long-term monitoring.

Ewart Morris

Ewart Morris, Inorganics Technical Manager

Mark Hammersla

Mark Hammersla, President



ISO Guide 34:2009
Certificate AR-1571

ISO 9001:2008 UL Registered Firm - Certificate # 10002343 QM08

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ISO/IEC 17025:2005
Certificate AT-1690

Reagent

TKN ICV_00011

Certificate of Analysis

PRODUCT:	1000 mg/L Total Kjeldahl Nitrogen (TKN)
CATALOG NUMBER:	043 -125 mL; 996 - 500 mL
LOT NUMBER:	281018
ISSUE DATE:	December 7, 2018
REVISION DATE:	Original
STARTING MATERIAL:	Glycine (NH ₂ CH ₂ COOH)
CERTIFIED CONCENTRATION¹:	1000 mg/L
UNCERTAINTY²:	0.6%
MATRIX:	18 megohm deionized water and 1% (v/v) HCl
DENSITY:	1.0055 ± 0.0010 g/mL at 16.6°C and 754 mm Hg
TRACEABILITY³:	100%
NIST/SRM:	194a Ammonium Dihydrogen Phosphate
VERIFICATION METHOD:	Ion Selective Electrode (ISE)
STORAGE:	Store at 20-25°C

1. The **Certified Concentration** is the actual made-to concentration confirmed by ERA analytical verification.
2. The stated **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation of the product and includes uncertainty related to the starting material used and the volumetric and gravimetric measurements made. The method of calculating uncertainty is taken from the ISO Guide to the Expression of Uncertainty in Measurement (current version). The uncertainty applies to the product as supplied and does not take into account any required or optional dilutions and/or preparations the laboratory may perform while using this product.
3. Traceability ((% Recovery Certified Standard)/(% Recovery NIST SRM))* 100.

The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs. Where a NIST SRM is not available, the product is metrologically traceable through an unbroken chain of calibrations to NIST weights, each having stated uncertainties and utilizing measurement standards that are appropriate for the physical and/or chemical property being measured.

This standard **expires 10/2020**. The certified values are monitored and 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.

This product is intended to be used as either a calibration standard or a quality control check of the entire analytical process for the analytes/matrix included in the standard.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or email to info@eraqc.com

Certifying Officer: Brian Miller - Product Line Manager

ISO/IEC GUIDE 34:2009



REFERENCE MATERIAL PRODUCER
CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005



CHEMICAL TESTING LABORATORY
CERTIFICATE NO. 1539.02

Reagent

TOC LCS Std_00048



Certificate of Analysis ISO Guide 34

Product Number: IQC-106
Lot Number: 0006465171

Lot Issue Date: 10-May 2019
Expiration Date: 30-Jun 2021

Product Name: Total Organic Carbon (TOC) Standard

Description:

This Reference Material (RM) was gravimetrically prepared in accordance with ISO Guide 34 and under Agilent's ISO 9001 registered quality system. The neat materials used for this product have been verified by Agilent's ISO 17025 laboratory and under Agilent's ISO Guide 34 accreditation. The analyte concentrations were verified by Agilent's ISO 17025 accredited laboratory. For each analyte, the true value, with its uncertainty value calculated at the 95% confidence level, is reported below.

Analyte	Starting Material	Lot Number	Purity (%)	Analyte Concentration	Traceability & Method
TOC	potassium hydrogen phthalate	RM14067	99.97	1001 ± 5 µg/mL	NAA02099; TOC Analyzer

Solvent: water (low TOC, <50 ppb)

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

Traceability:

Traceability has been established through an unbroken chain of comparisons, each having stated uncertainties. Comparisons are based on appropriate physical or chemical measurements, including gravimetric or volumetric dilution, where the mass or volume of a solution before and after dilution is measured. The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1, ISO 9001, ISO 17025, and ISO Guide 34. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 819.

Estimation of Uncertainties:

The true value is reported, with its uncertainty value calculated at the 95% confidence level.

Homogeneity:

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

Intended Use:

This RM 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.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening and should be processed without delay for the true value to be valid within the stated uncertainties. Do not pipet from the bottle. Do not return any material removed for pipetting to the bottle. Tightly cap the bottle after removing any material and store according to the instructions noted above.

Hazards:

Refer to the Safety Data Sheet for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid, within the measurement uncertainty specified, until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.



ISO Guide 34 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System

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ISO17025 Cert No.
AT-1937

Certificate of Analysis

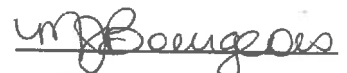
ISO Guide 34

Product Number: IQC-106
Lot Number: 0006465171

Lot Issue Date: 10-May 2019
Expiration Date: 30-Jun 2021

Maintenance of Certification:

The real-time, long term stability of the RM may be monitored over the lifetime of the certification. If substantive changes occur that affect the certification before the expiration of this certificate, Agilent Technologies will notify the purchaser.



Monica Bourgeois
QMS Representative



ISO Guide 34 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System

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ISO17025 Cert No.
AT-1937

RSK_175_DOD5

Dissolved Gases (GC)

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 011F0201.D

Lab ID: LCS 280-496925/34 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Methane	0.0730	0.0820	112	73-125	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 009F0201.D

Lab ID: LCS 280-497247/33 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Methane	0.0730	0.0705	97	73-125	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 012F0301.D
Lab ID: LCSD 280-496925/35 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Methane	0.0730	0.0799	109	3	20	73-125	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 010F0301.D
Lab ID: LCSD 280-497247/35 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Methane	0.0730	0.0704	96	0	20	73-125	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 015F0601.D
Lab ID: 280-137048-1 MS Client ID: EW7-PM21A-3-25 MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
Methane	0.0730	4.7	6.13	2000	73-125	4

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 016F0701.D
Lab ID: 280-137048-1 MSD Client ID: EW7-PM21A-3-25 MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Methane	0.0730	5.71	1420	7	20	73-125	4

Column to be used to flag recovery and RPD values

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: MB 280-496925/7
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) 007F0701.D Lab File ID: (2) 007F0701.D
 Date Analyzed: (1) 06/01/2020 14:02 Date Analyzed: (2) 06/01/2020 14:02
 Instrument ID: (1) VGC_J Instrument ID: (2) VGC_J
 GC Column: (1) HP-Plot Q ID: 0.53 (mm) GC Column: (2) Rt-Alumina K ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1		DATE ANALYZED 2	
	LCS 280-496925/34	06/01/2020	14:59	06/01/2020	14:59
	LCSD 280-496925/35	06/01/2020	15:15	06/01/2020	15:15
EW7-PM21A-3-25	280-137048-1	06/01/2020	15:31	06/01/2020	15:31
EW7-PM21A-3-25 DU	280-137048-1 DU	06/01/2020	15:48	06/01/2020	15:48
EW7-PM21A-3-25 MS	280-137048-1 MS	06/01/2020	16:04	06/01/2020	16:04
EW7-PM21A-3-25 MSD	280-137048-1 MSD	06/01/2020	16:20	06/01/2020	16:20
EW7-PM22A-3-25	280-137048-2	06/01/2020	17:09	06/01/2020	17:09

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: MB 280-497247/7
Matrix: Water Date Extracted: _____
Lab File ID: (1) 007F0701.D Lab File ID: (2) 007F0701.D
Date Analyzed: (1) 06/03/2020 11:52 Date Analyzed: (2) 06/03/2020 11:52
Instrument ID: (1) VGC_J Instrument ID: (2) VGC_J
GC Column: (1) HP-Plot Q ID: 0.53 (mm) GC Column: (2) Rt-Alumina K ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE		DATE	
		ANALYZED 1		ANALYZED 2	
	LCS 280-497247/33	06/03/2020	14:40	06/03/2020	14:40
	LCSD 280-497247/35	06/03/2020	14:56	06/03/2020	14:56

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: MB 280-497247/34
Matrix: Water Date Extracted: _____
Lab File ID: (1) 011F0401.D Lab File ID: (2) 011F0401.D
Date Analyzed: (1) 06/03/2020 15:12 Date Analyzed: (2) 06/03/2020 15:12
Instrument ID: (1) VGC_J Instrument ID: (2) VGC_J
GC Column: (1) HP-Plot Q ID: 0.53 (mm) GC Column: (2) Rt-Alumina K ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
EW7-PM22A-3-25	280-137048-2	06/03/2020 16:34	06/03/2020 16:34

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Client Sample ID: EW7-PM21A-3-25 Lab Sample ID: 280-137048-1
 Instrument ID (1): VGC_J Instrument ID (2): VGC_J
 Date Analyzed (1): 06/01/2020 15:31 Date Analyzed (2): 06/01/2020 15:31
 GC Column (1): HP-Plot Q ID: 0.53 (mm) GC Column (2): Rt-Alumina KC ID: 0.53 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		3.16	3.13	3.21	4.7		3.8
	2		1.25	1.21	1.29	4.9		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Client Sample ID: EW7-PM21A-3-25 MS Lab Sample ID: 280-137048-1 MS
 Instrument ID (1): VGC_J Instrument ID (2): VGC_J
 Date Analyzed (1): 06/01/2020 16:04 Date Analyzed (2): 06/01/2020 16:04
 GC Column (1): HP-Plot Q ID: 0.53 (mm) GC Column (2): Rt-Alumina KC ID: 0.53 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		3.15	3.13	3.21	6.13		3.5
	2		1.24	1.21	1.29	6.35		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Client Sample ID: EW7-PM21A-3-25 MSD Lab Sample ID: 280-137048-1 MSD
 Instrument ID (1): VGC_J Instrument ID (2): VGC_J
 Date Analyzed (1): 06/01/2020 16:20 Date Analyzed (2): 06/01/2020 16:20
 GC Column (1): HP-Plot Q ID: 0.53 (mm) GC Column (2): Rt-Alumina KC ID: 0.53 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		3.15	3.13	3.21	5.71		3.2
	2		1.24	1.21	1.29	5.89		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Client Sample ID: EW7-PM21A-3-25 DU Lab Sample ID: 280-137048-1 DU
 Instrument ID (1): VGC_J Instrument ID (2): VGC_J
 Date Analyzed (1): 06/01/2020 15:48 Date Analyzed (2): 06/01/2020 15:48
 GC Column (1): HP-Plot Q ID: 0.53 (mm) GC Column (2): Rt-Alumina KC ID: 0.53 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		3.16	3.13	3.21	5.31		3.8
	2		1.25	1.21	1.29	5.52		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Client Sample ID: EW7-PM22A-3-25 Lab Sample ID: 280-137048-2
 Instrument ID (1): VGC_J Instrument ID (2): VGC_J
 Date Analyzed (1): 06/01/2020 17:09 Date Analyzed (2): 06/01/2020 17:09
 GC Column (1): HP-Plot Q ID: 0.53(mm) GC Column (2): Rt-Alumina KC ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		3.13	3.13	3.21	14		4.6
	2		1.24	1.21	1.29	15		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Client Sample ID: EW7-PM22A-3-25 Lab Sample ID: 280-137048-2
 Instrument ID (1): VGC_J Instrument ID (2): VGC_J
 Date Analyzed (1): 06/03/2020 16:34 Date Analyzed (2): 06/03/2020 16:34
 GC Column (1): HP-Plot Q ID: 0.53(mm) GC Column (2): Rt-Alumina KC ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		3.16	3.12	3.20	13		2.3
	2		1.25	1.21	1.29	14		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 280-496925/34
 Instrument ID (1): VGC_J Instrument ID (2): VGC_J
 Date Analyzed (1): 06/01/2020 14:59 Date Analyzed (2): 06/01/2020 14:59
 GC Column (1): HP-Plot Q ID: 0.53 (mm) GC Column (2): Rt-Alumina KC ID: 0.53 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		3.18	3.13	3.21	0.0820		0.3
	2		1.26	1.21	1.29	0.0818		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 280-496925/35
 Instrument ID (1): VGC_J Instrument ID (2): VGC_J
 Date Analyzed (1): 06/01/2020 15:15 Date Analyzed (2): 06/01/2020 15:15
 GC Column (1): HP-Plot Q ID: 0.53(mm) GC Column (2): Rt-Alumina KC ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		3.17	3.13	3.21	0.0799		0.2
	2		1.25	1.21	1.29	0.0797		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 280-497247/33
 Instrument ID (1): VGC_J Instrument ID (2): VGC_J
 Date Analyzed (1): 06/03/2020 14:40 Date Analyzed (2): 06/03/2020 14:40
 GC Column (1): HP-Plot Q ID: 0.53(mm) GC Column (2): Rt-Alumina KC ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		3.19	3.12	3.20	0.0705		0.2
	2		1.26	1.21	1.29	0.0707		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 280-497247/35
 Instrument ID (1): VGC_J Instrument ID (2): VGC_J
 Date Analyzed (1): 06/03/2020 14:56 Date Analyzed (2): 06/03/2020 14:56
 GC Column (1): HP-Plot Q ID: 0.53(mm) GC Column (2): Rt-Alumina KC ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		3.18	3.12	3.20	0.0704		0.0
	2		1.26	1.21	1.29	0.0704		

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Client Sample ID: EW7-PM21A-3-25 Lab Sample ID: 280-137048-1
Matrix: Water Lab File ID: 013F0401.D
Analysis Method: RSK-175 Date Collected: 05/28/2020 10:45
Sample wt/vol: 18 (mL) Date Analyzed: 06/01/2020 15:31
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: HP-Plot Q ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 496925 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	4.7	J1	0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\013F0401.D
 Lims ID: 280-137048-H-1
 Client ID: EW7-PM21A-3-25
 Sample Type: Client
 Inject. Date: 01-Jun-2020 15:31:48 ALS Bottle#: 13 Worklist Smp#: 8
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: 280-137048-h-1
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Method: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 02-Jun-2020 08:27:25 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1: Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2: HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1037

First Level Reviewer: sciannac

Date: 02-Jun-2020 08:27:05

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
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\$ 1 1,1,1-Trifluoroethane

1	4.098	ND
2	5.458	

2 Methane

1	1.245	1.253	-0.008	697258714	4850.7
2	3.155	3.170	-0.015	319808152	4672.0

RPD = 3.75

3 Ethane

1	1.503	ND
2	4.302	

4 Ethylene

1	1.758	ND
2	4.028	

5 Propane

1	2.423	ND
2	5.923	

6 Acetylene

1	3.865	ND
2	4.133	

7 Butane

1	4.166	ND
2	7.367	

8 isobutylene

1	5.065	ND
2	7.218	

Report Date: 02-Jun-2020 08:27:26

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\013F0401.D

Injection Date: 01-Jun-2020 15:31:48

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: 280-137048-H-1

Lab Sample ID: 280-137048-1

Worklist Smp#: 8

Client ID: EW7-PM21A-3-25

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

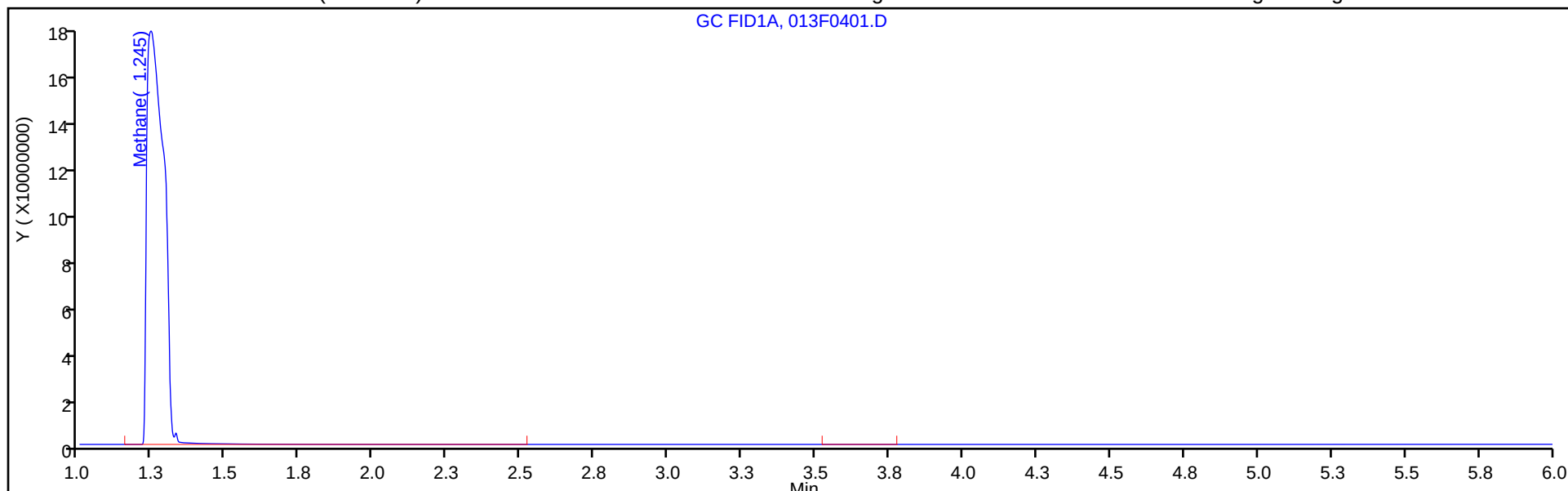
ALS Bottle#: 13

Method: RSK_J

Limit Group: GCV - RSK 175

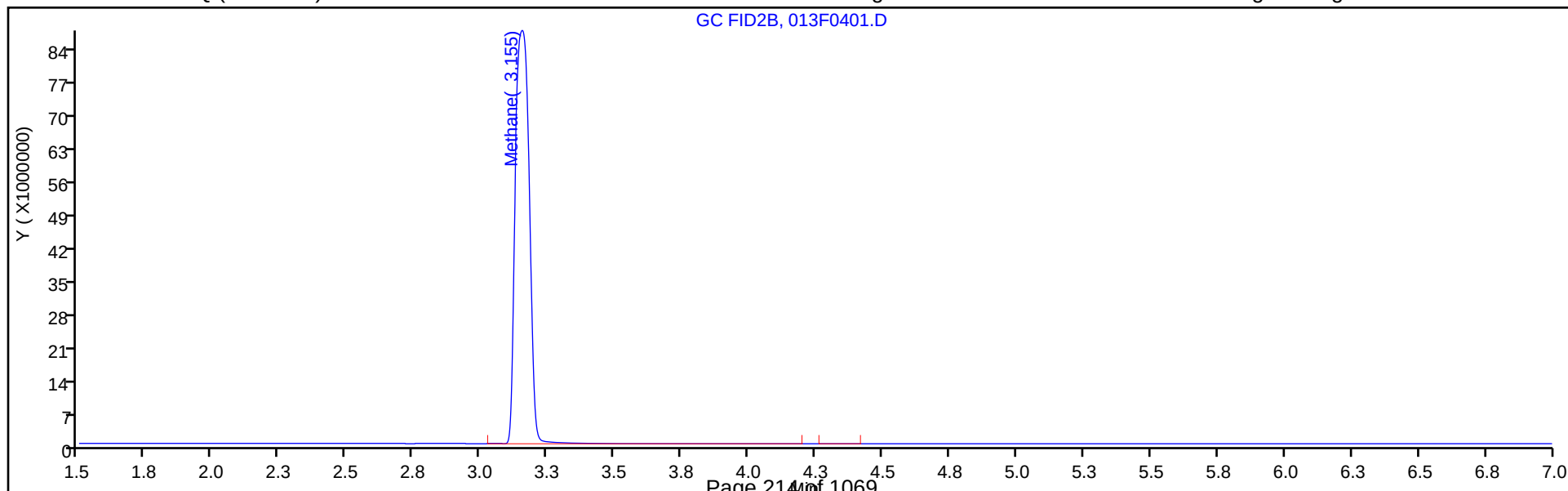
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Client Sample ID: EW7-PM22A-3-25 Lab Sample ID: 280-137048-2
Matrix: Water Lab File ID: 016F0901.D
Analysis Method: RSK-175 Date Collected: 05/28/2020 12:25
Sample wt/vol: 18 (mL) Date Analyzed: 06/03/2020 16:34
Soil Aliquot Vol: _____ Dilution Factor: 3
Soil Extract Vol.: _____ GC Column: HP-Plot Q ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 497247 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	13	D	0.015	0.0060	0.0019

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\016F0901.D
 Lims ID: 280-137048-I-2
 Client ID: EW7-PM22A-3-25
 Sample Type: Client
 Inject. Date: 03-Jun-2020 16:34:28 ALS Bottle#: 16 Worklist Smp#: 12
 Purge Vol: 18.000 mL Dil. Factor: 3.0000
 Sample Info: 280-137048-i-2
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Method: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 05-Jun-2020 13:56:29 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1: Rt-Alumina BOND/KCI (0.53 mm) Det: GC FID1A
 Column 2: HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1025

First Level Reviewer: sciannac

Date: 05-Jun-2020 13:38:59

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
-----	--------------	------------------	------------------	----------	-------------------	-------

\$ 1 1,1,1-Trifluoroethane

1	4.098	ND
2	5.458	

2 Methane

1	1.250	1.250	0.000	649147810	4516.0
2	3.163	3.161	0.002	302064658	4412.8

RPD = 2.31

3 Ethane

1	1.500	ND
2	4.296	

4 Ethylene

1	1.758	ND
2	4.023	

5 Propane

1	2.433	ND
2	5.918	

6 Acetylene

1	3.886	ND
2	4.128	

7 Butane

1	4.181	ND
2	7.363	

8 isobutylene

1	5.083	ND
2	7.216	

Report Date: 05-Jun-2020 13:56:34

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\016F0901.D

Injection Date: 03-Jun-2020 16:34:28

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: 280-137048-I-2

Lab Sample ID: 280-137048-2

Worklist Smp#: 12

Client ID: EW7-PM22A-3-25

Purge Vol: 18.000 mL

Dil. Factor: 3.0000

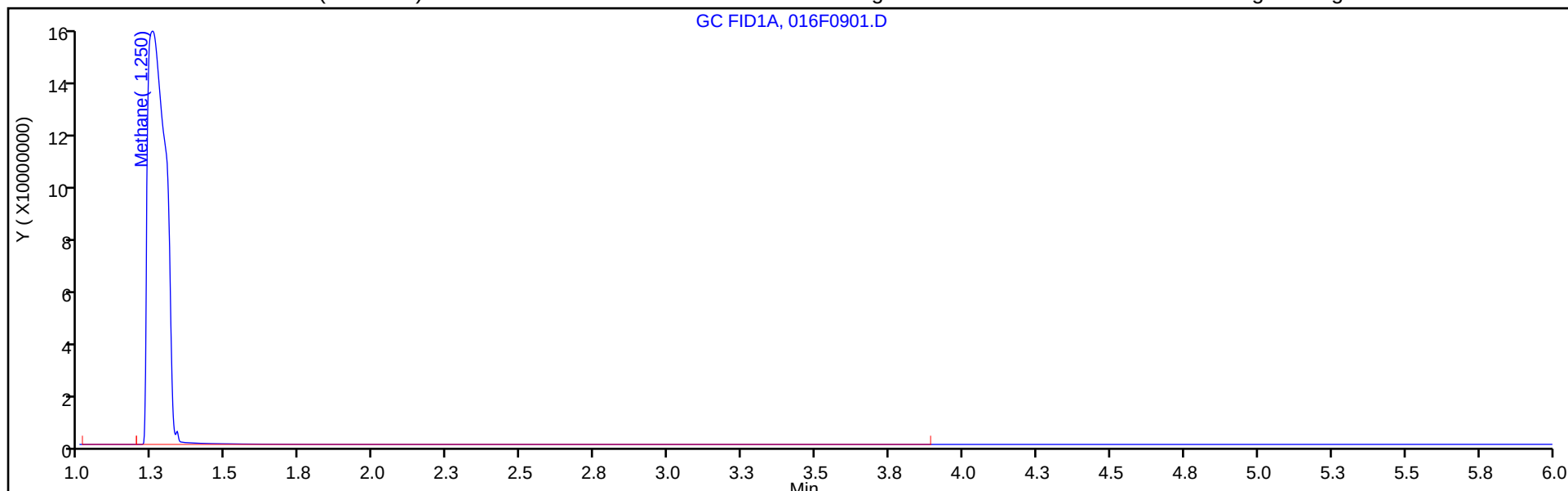
ALS Bottle#: 16

Method: RSK_J

Limit Group: GCV - RSK 175

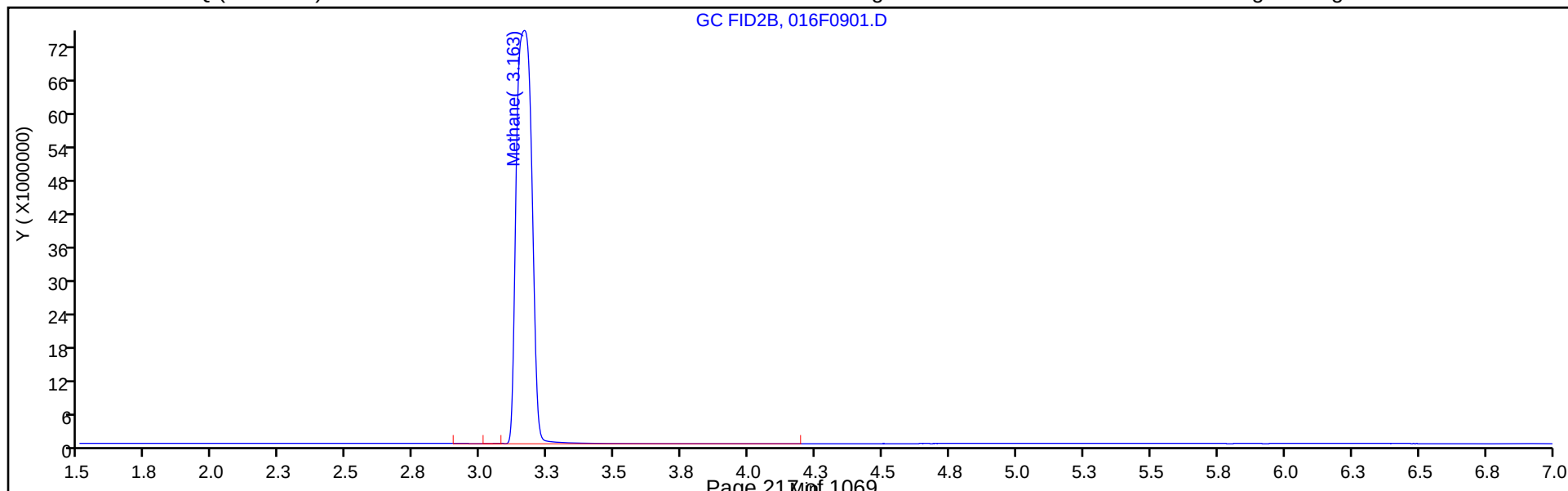
Column: Rt-Alumina BOND/KCI (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1 Analy Batch No.: 495152
SDG No.: _____
Instrument ID: VGC_J GC Column: Rt-Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/16/2020 10:57 Calibration End Date: 05/16/2020 13:08 Calibration ID: 44285

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-495152/6	001F0101.D
Level 2	IC 280-495152/7	001F0201.D
Level 3	IC 280-495152/8	002F0301.D
Level 4	IC 280-495152/9	003F0401.D
Level 5	ICRT 280-495152/10	004F0501.D
Level 6	IC 280-495152/11	005F0601.D
Level 7	IC 280-495152/12	006F0701.D
Level 8	IC 280-495152/13	007F0801.D
Level 9	IC 280-495152/14	009F0901.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
Methane	1.250	1.251	1.248	1.249	1.250	1.250	1.243	1.248	1.245		1.210 - 1.290	1.248
Ethane	1.513	1.514	1.511	1.510	1.511	1.512	1.508				1.461 - 1.561	1.511
Ethylene	1.795	1.788	1.791	1.792	1.793	1.785	1.785				1.743 - 1.843	1.790
Acetylene	4.048	4.044	4.043	4.034	4.015	4.002	3.983				3.935 - 4.095	4.024

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1 Analy Batch No.: 495152

SDG No.: _____

Instrument ID: VGC_J GC Column: Rt-Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/16/2020 10:57 Calibration End Date: 05/16/2020 13:08 Calibration ID: 44285

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-495152/6	001F0101.D
Level 2	IC 280-495152/7	001F0201.D
Level 3	IC 280-495152/8	002F0301.D
Level 4	IC 280-495152/9	003F0401.D
Level 5	ICRT 280-495152/10	004F0501.D
Level 6	IC 280-495152/11	005F0601.D
Level 7	IC 280-495152/12	006F0701.D
Level 8	IC 280-495152/13	007F0801.D
Level 9	IC 280-495152/14	009F0901.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	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								
Methane	244228 139356 139547	206236 146223	177863 139400	150422 142004	Lin2	48790.6512	143733.270							0.9980		0.9900
Ethane	116248 135523	138788 141935	141875 135846	142086	Ave		136042.830				6.7		20.0			
Ethylene	95153 109903	112972 114358	114801 109412	114895	Ave		110213.494				6.4		20.0			
Acetylene	32541 32001	35741 34987	35768 33689	35334	Ave		34294.2686				4.5		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1 Analy Batch No.: 495152

SDG No.: _____

Instrument ID: VGC_J GC Column: Rt-Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/16/2020 10:57 Calibration End Date: 05/16/2020 13:08 Calibration ID: 44285

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-495152/6	001F0101.D
Level 2	IC 280-495152/7	001F0201.D
Level 3	IC 280-495152/8	002F0301.D
Level 4	IC 280-495152/9	003F0401.D
Level 5	ICRT 280-495152/10	004F0501.D
Level 6	IC 280-495152/11	005F0601.D
Level 7	IC 280-495152/12	006F0701.D
Level 8	IC 280-495152/13	007F0801.D
Level 9	IC 280-495152/14	009F0901.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Methane	Lin2	111434 21349465	188199 40706597	324614 256592942	2196261 1008615918	10173489	0.456 146	0.913 292	1.83 1807	14.6 7228	73.0
Ethane	Ave	99432 38849075	237424 74364849	485411	3889050	18547040	0.855 274	1.71 547	3.42	27.4	137
Ethylene	Ave	75924 29199476	180285 55873290	366405	2933658	14030935	0.798 255	1.60 511	3.19	25.5	128
Acetylene	Ave	24105 8293493	52951 15971476	105983	837564	3792795	0.741 237	1.48 474	2.96	23.7	119

Curve Type Legend:

Ave = Average
Lin2 = Linear 1/conc^2

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\001F0101.D
 Lims ID: IC L1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-May-2020 10:57:08 ALS Bottle#: 1 Worklist Smp#: 6
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: IC 1
 Operator ID: MEIERG Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 17-May-2020 08:59:46 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX0312

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.250	1.250	0.000	111434	0.4563	0.4358	
2	3.180	3.172	0.008	47082	0.4563	0.4350	

RPD = 0.19

3 Ethane

1	1.513	1.511	0.002	99432	0.8553	0.7309	Ma
2	4.310	4.305	0.005	45402	0.8553	0.7436	M

RPD = 1.73

4 Ethylene

1	1.795	1.793	0.002	75924	0.7979	0.6889	
2	4.038	4.032	0.006	33393	0.7979	0.6966	

RPD = 1.12

5 Propane

1	2.535	2.528	0.007	162619	1.25	1.14	
2	5.932	5.928	0.004	68003	1.25	1.09	

RPD = 4.45

6 Acetylene

1	4.048	4.015	0.033	24105	0.7408	0.7029	M
2	4.142	4.137	0.005	13119	0.7408	0.6072	M

RPD = 14.61

7 Butane

1	4.315	4.286	0.029	175523	1.65	1.66	Ma
2	7.382	7.375	0.007	85626	1.65	1.67	M

RPD = 0.36

8 isobutylene

1	5.190	5.163	0.027	120280	1.60	1.35	
2	7.232	7.227	0.005	54094	1.60	1.30	

RPD = 3.46

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031

Amount Added: 1.25

Units: uL

Report Date: 17-May-2020 08:59:46

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\001F0101.D

Injection Date: 16-May-2020 10:57:08

Instrument ID: VGC_J

Operator ID: MEIERG

Lims ID: IC L1

Worklist Smp#: 6

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

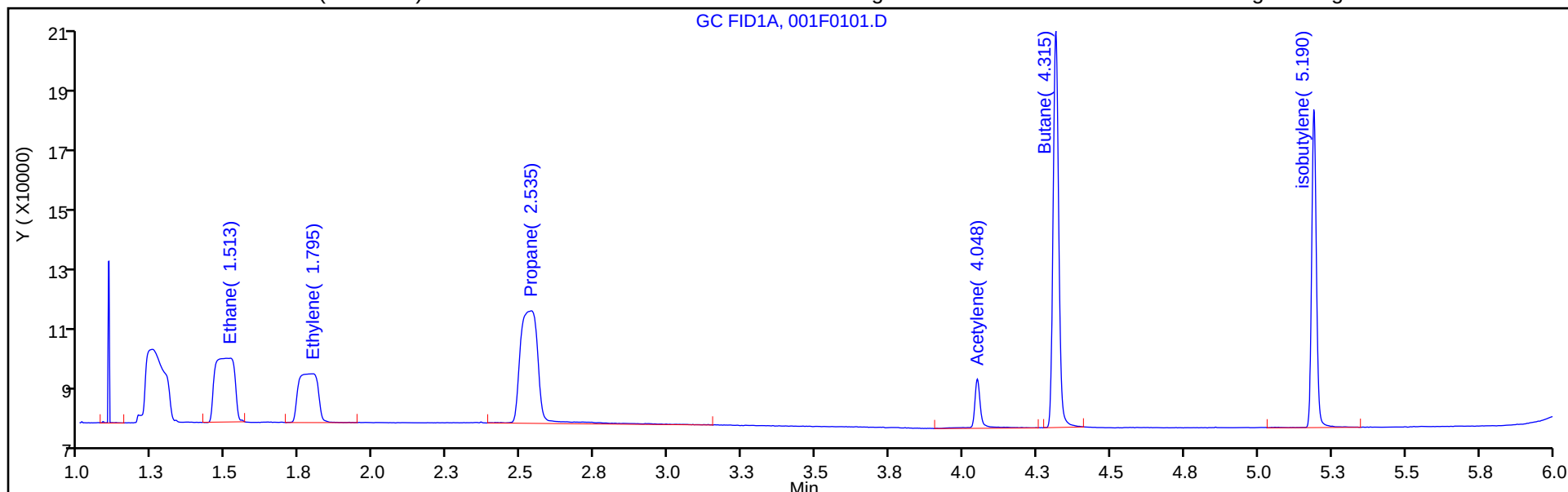
ALS Bottle#: 1

Method: RSK_J

Limit Group: GCV - RSK 175

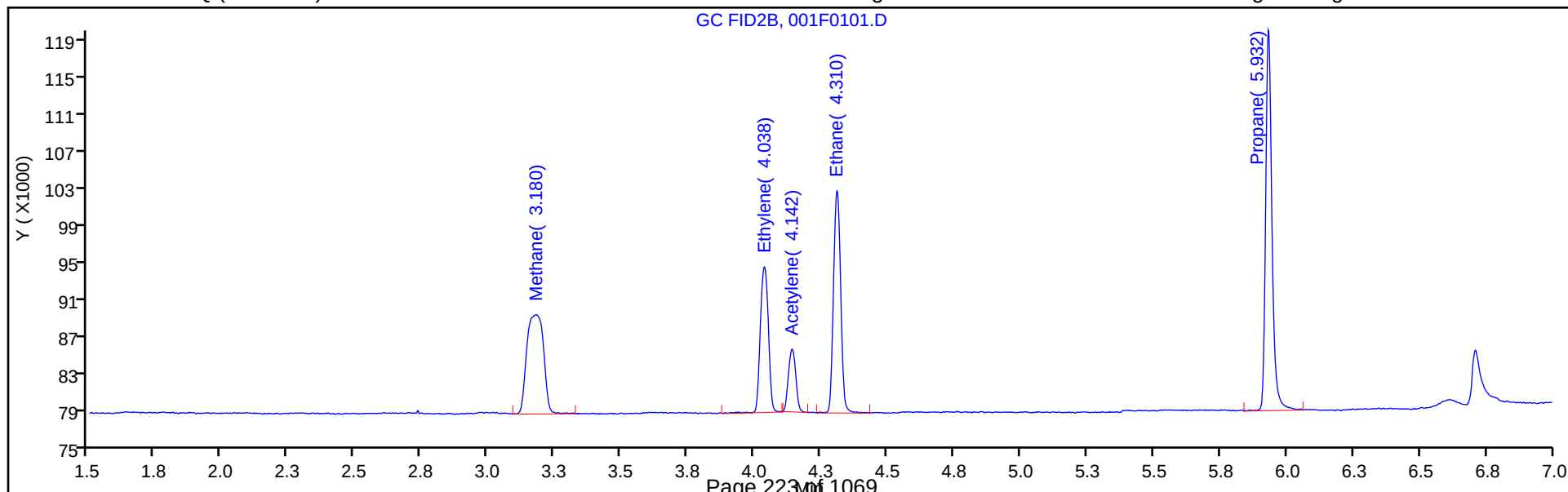
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

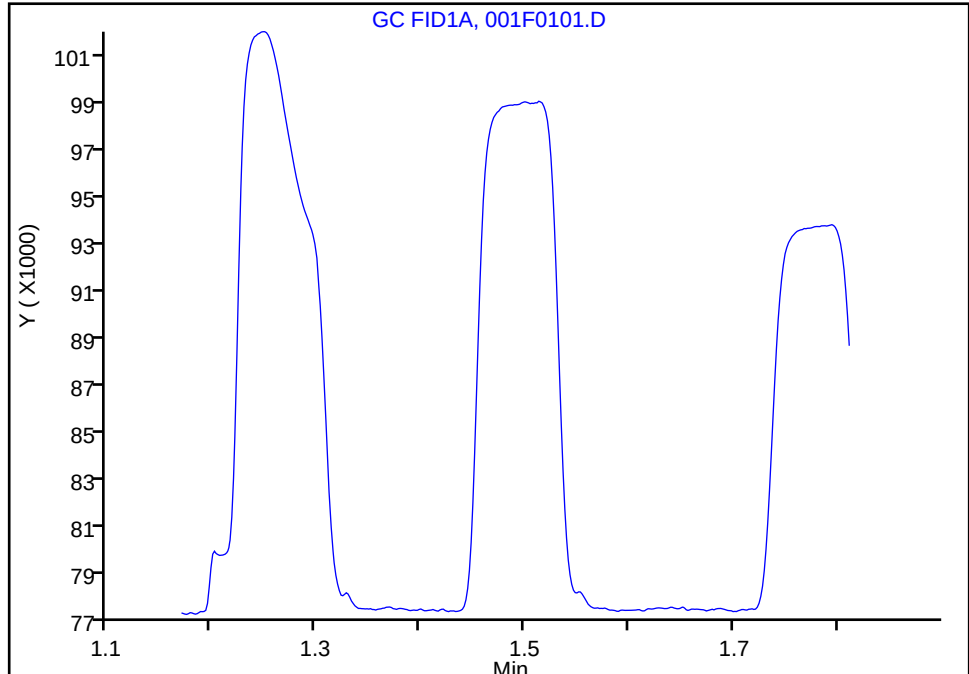
Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\001F0101.D
Injection Date: 16-May-2020 10:57:08 Instrument ID: VGC_J
Lims ID: IC L1
Client ID:
Operator ID: MEIERG ALS Bottle#: 1 Worklist Smp#: 6
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: Rt-Alumina BOND/KCl (0.53 mm) Detector: GC FID1A

3 Ethane, CAS: 74-84-0

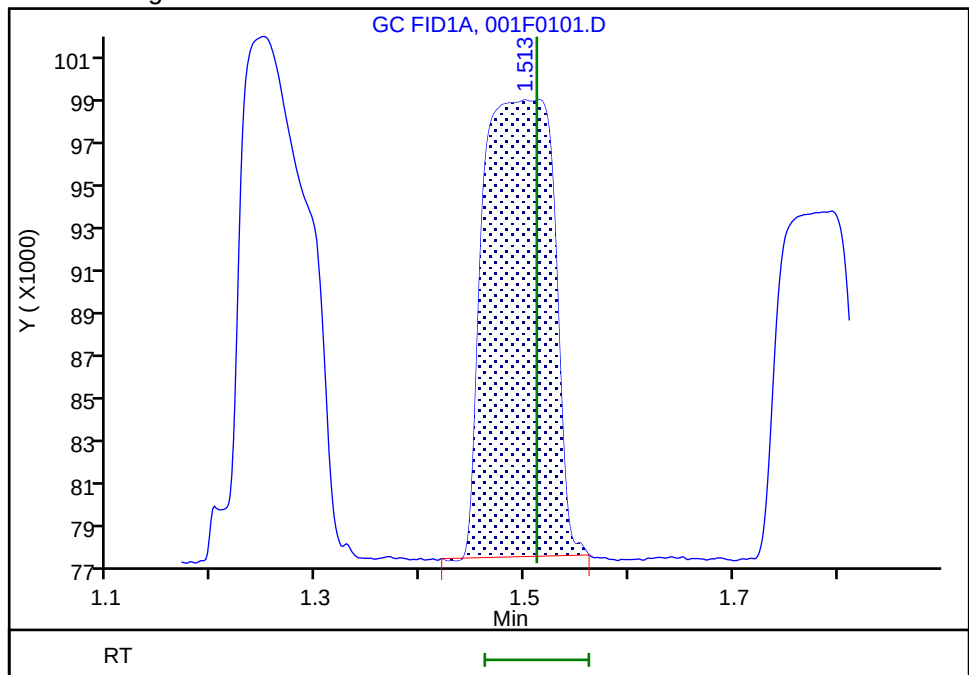
Signal: 1

Not Detected
Expected RT: 1.51

Processing Integration Results



Manual Integration Results



RT: 1.51
Area: 99432
Amount: 0.730887
Amount Units: ug/l

Reviewer: meierg, 17-May-2020 06:37:33

Audit Action: Manually Integrated

Audit Reason: Peak not integrated

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\001F0201.D
 Lims ID: IC L2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-May-2020 11:13:34 ALS Bottle#: 1 Worklist Smp#: 7
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: IC 2
 Operator ID: MEIERG Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 17-May-2020 08:59:46 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX0312

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	--------------	------------------	------------------	----------	-----------------	-------------------	-------

2 Methane

1	1.251	1.250	0.001	188199	0.9125	0.9699	
2	3.171	3.172	-0.001	83897	0.9125	0.9729	
RPD = 0.31							

3 Ethane

1	1.514	1.511	0.003	237424	1.71	1.75	
2	4.306	4.305	0.001	106974	1.71	1.75	
RPD = 0.39							

4 Ethylene

1	1.788	1.793	-0.005	180285	1.60	1.64	M
2	4.031	4.032	-0.001	77235	1.60	1.61	M
RPD = 1.51							

5 Propane

1	2.534	2.528	0.006	366612	2.51	2.56	
2	5.933	5.928	0.005	156230	2.51	2.49	
RPD = 2.56							

6 Acetylene

1	4.044	4.015	0.029	52951	1.48	1.54	Ma
2	4.136	4.137	-0.001	31554	1.48	1.46	M
RPD = 5.56							

7 Butane

1	4.311	4.286	0.025	384054	3.31	3.24	
2	7.381	7.375	0.006	184917	3.31	3.22	
RPD = 0.55							

8 isobutylene

1	5.186	5.163	0.023	261296	3.19	2.93	
2	7.231	7.227	0.004	119878	3.19	2.88	
RPD = 1.46							

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031

Amount Added: 2.50

Units: uL

Report Date: 17-May-2020 08:59:47

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\001F0201.D

Injection Date: 16-May-2020 11:13:34

Instrument ID: VGC_J

Operator ID: MEIERG

Lims ID: IC L2

Worklist Smp#: 7

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

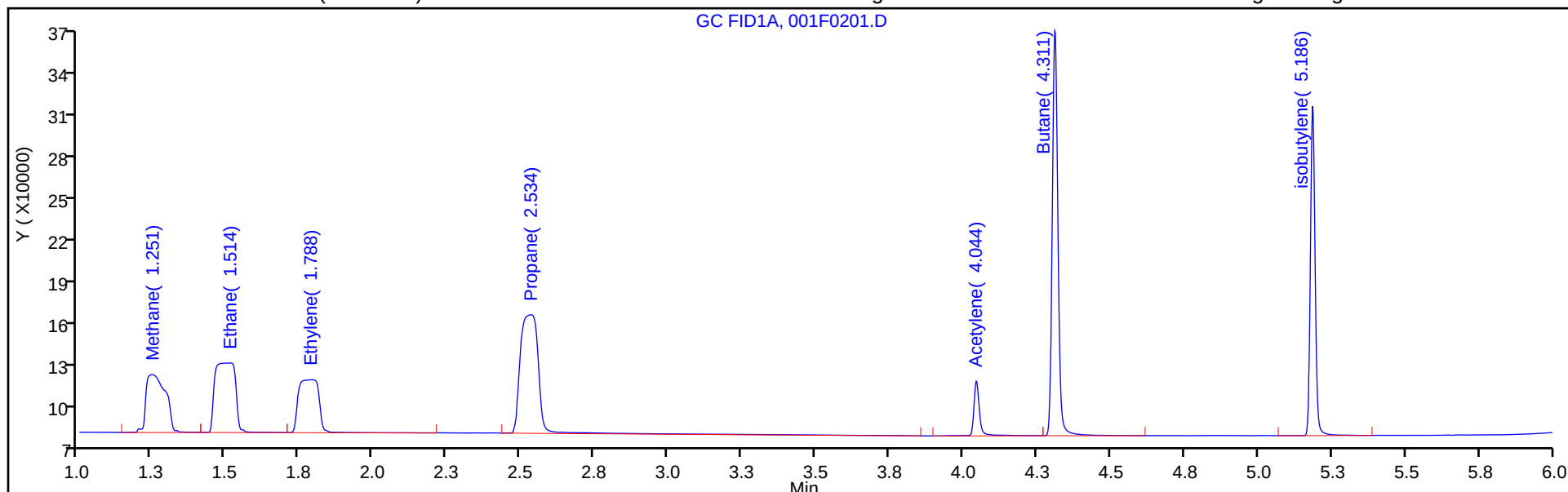
ALS Bottle#: 1

Method: RSK_J

Limit Group: GCV - RSK 175

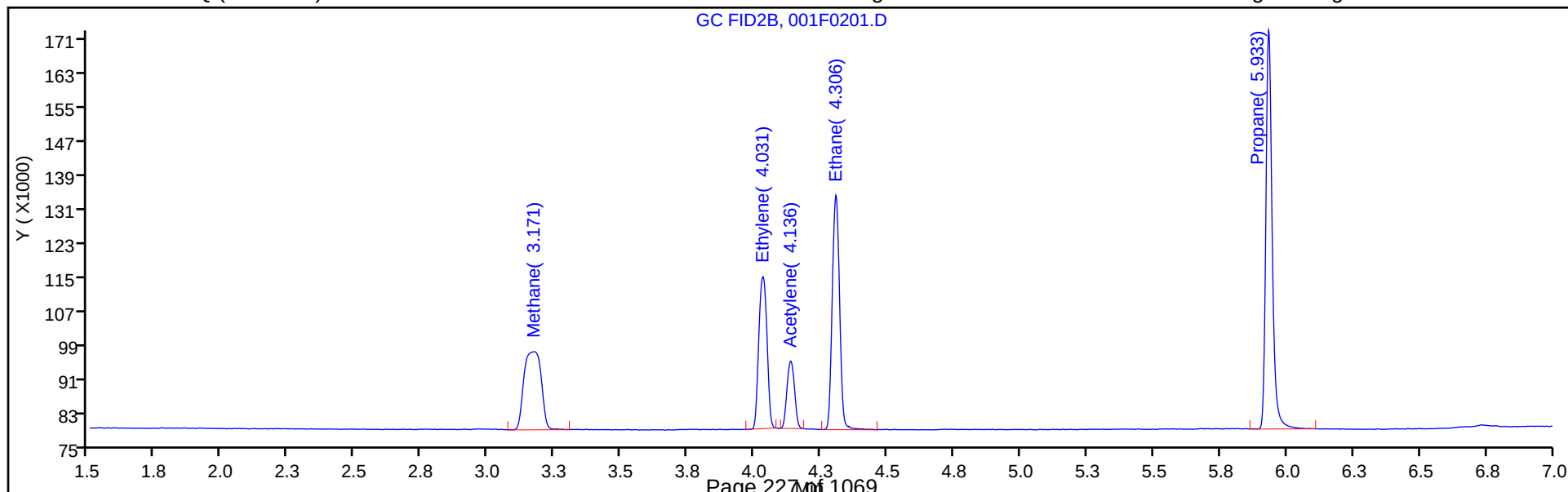
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

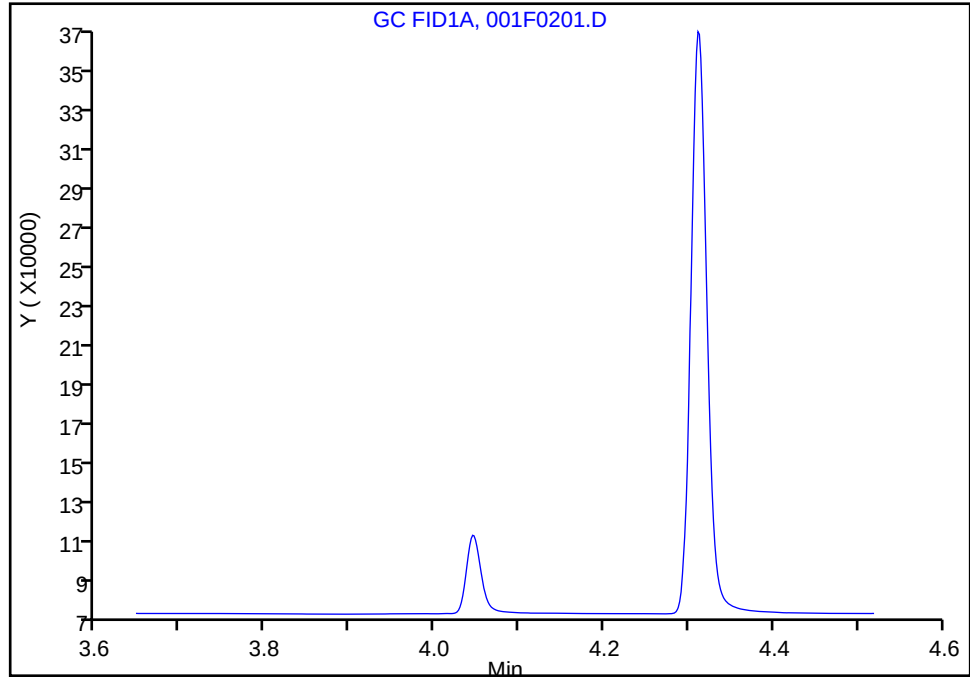
Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\001F0201.D
Injection Date: 16-May-2020 11:13:34 Instrument ID: VGC_J
Lims ID: IC L2
Client ID:
Operator ID: MEIERG ALS Bottle#: 1 Worklist Smp#: 7
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: Rt-Alumina BOND/KCl (0.53 mm) Detector: GC FID1A

6 Acetylene, CAS: 74-86-2

Signal: 1

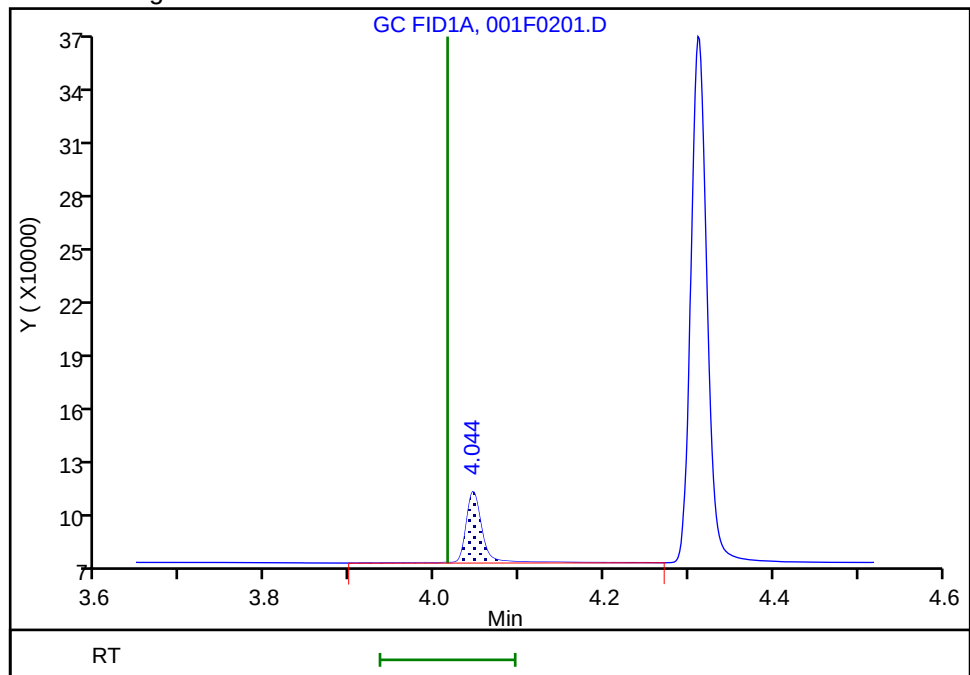
RT: 4.01
Area: 0
Amount: 1.109766
Amount Units: ug/l

Processing Integration Results



RT: 4.04
Area: 52951
Amount: 1.544019
Amount Units: ug/l

Manual Integration Results



Reviewer: meierg, 17-May-2020 06:43:56

Audit Action: Assigned Compound ID

Audit Reason: Peak not integrated

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\002F0301.D
 Lims ID: IC L3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 16-May-2020 11:30:01 ALS Bottle#: 2 Worklist Smp#: 8
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: IC 3
 Operator ID: MEIERG Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 17-May-2020 08:59:47 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX0312

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	--------------	------------------	------------------	----------	-----------------	-------------------	-------

2 Methane

1	1.248	1.250	-0.002	324614	1.83	1.92	
2	3.169	3.172	-0.003	148689	1.83	1.92	
RPD = 0.02							

3 Ethane

1	1.511	1.511	0.000	485411	3.42	3.57	
2	4.306	4.305	0.001	217520	3.42	3.56	
RPD = 0.15							

4 Ethylene

1	1.791	1.793	-0.002	366405	3.19	3.32	M
2	4.031	4.032	-0.001	157852	3.19	3.29	M
RPD = 0.95							

5 Propane

1	2.531	2.528	0.003	754733	5.02	5.27	
2	5.933	5.928	0.005	326853	5.02	5.22	
RPD = 0.95							

6 Acetylene

1	4.043	4.015	0.028	105983	2.96	3.09	Ma
2	4.136	4.137	-0.001	66161	2.96	3.06	M
RPD = 0.92							

7 Butane

1	4.311	4.286	0.025	850630	6.61	6.77	
2	7.379	7.375	0.004	410288	6.61	6.75	
RPD = 0.31							

8 isobutylene

1	5.184	5.163	0.021	571566	6.38	6.40	
2	7.229	7.227	0.002	264983	6.38	6.38	
RPD = 0.42							

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031

Amount Added: 5.00

Units: uL

Report Date: 17-May-2020 08:59:47

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\002F0301.D

Injection Date: 16-May-2020 11:30:01

Instrument ID: VGC_J

Operator ID: MEIERG

Lims ID: IC L3

Worklist Smp#: 8

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

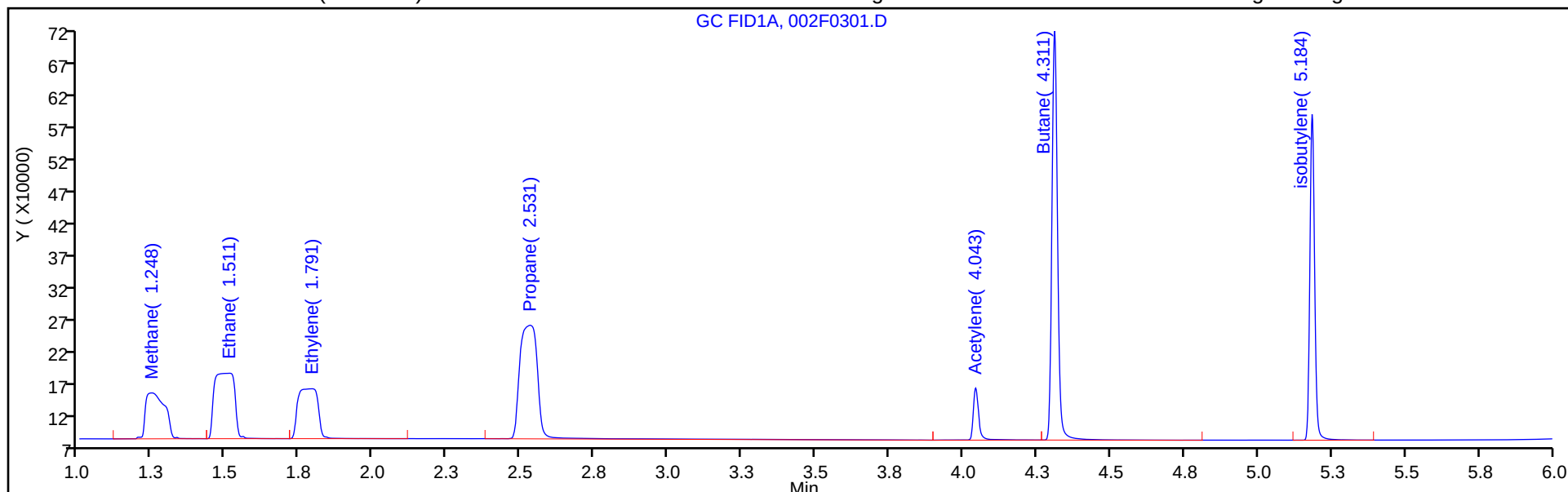
ALS Bottle#: 2

Method: RSK_J

Limit Group: GCV - RSK 175

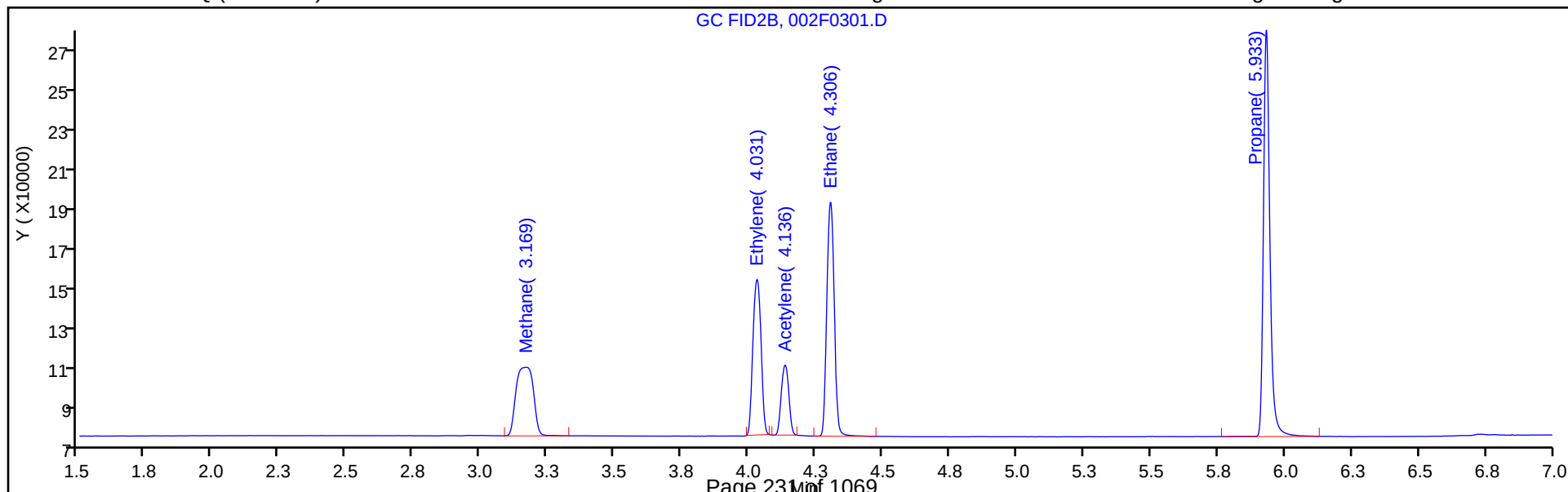
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

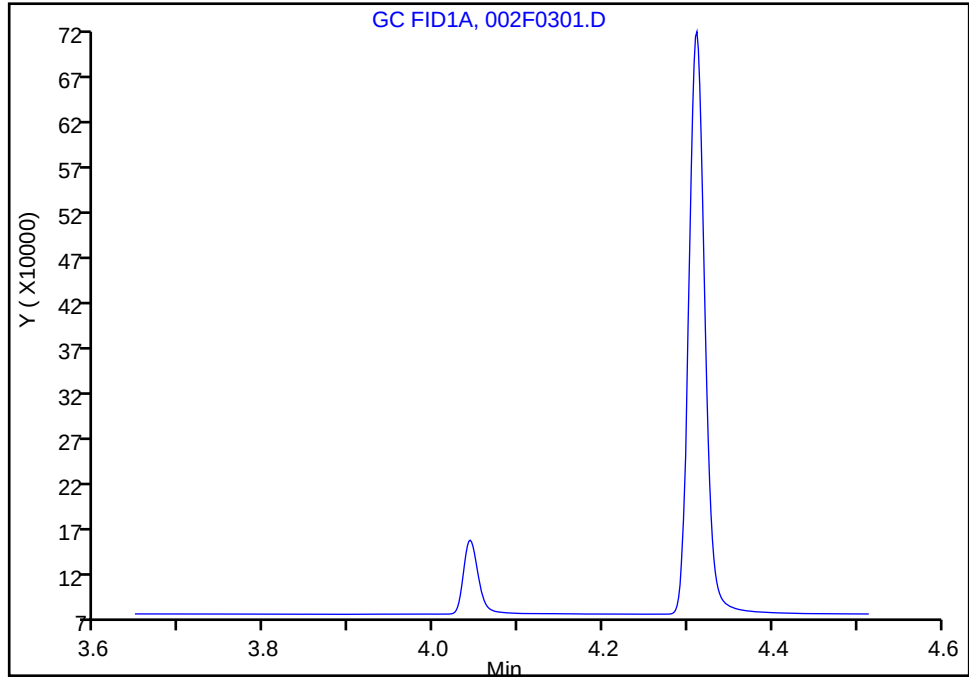
Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\002F0301.D
Injection Date: 16-May-2020 11:30:01 Instrument ID: VGC_J
Lims ID: IC L3
Client ID:
Operator ID: MEIERG ALS Bottle#: 2 Worklist Smp#: 8
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: Rt-Alumina BOND/KCl (0.53 mm) Detector: GC FID1A

6 Acetylene, CAS: 74-86-2

Signal: 1

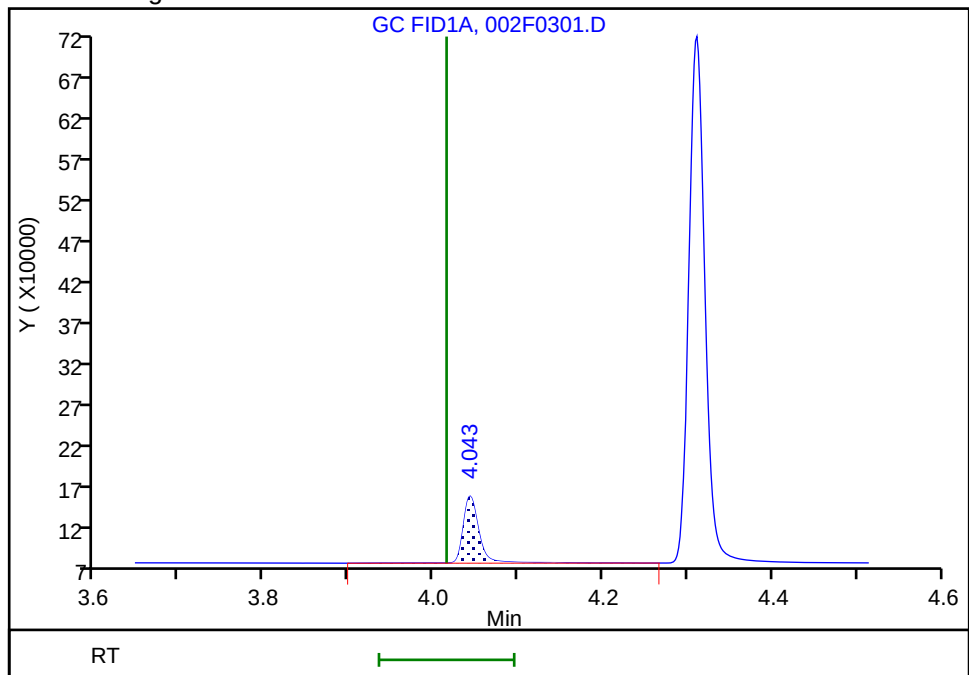
RT: 4.01
Area: 0
Amount: 2.336755
Amount Units: ug/l

Processing Integration Results



RT: 4.04
Area: 105983
Amount: 3.090400
Amount Units: ug/l

Manual Integration Results



Reviewer: meierg, 17-May-2020 06:45:26

Audit Action: Assigned Compound ID

Audit Reason: Peak not integrated

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\003F0401.D
 Lims ID: IC L4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 16-May-2020 11:46:30 ALS Bottle#: 3 Worklist Smp#: 9
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: IC 4
 Operator ID: MEIERG Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 17-May-2020 08:59:48 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX0312

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.249	1.250	-0.001	2196261	14.6	14.9	
2	3.171	3.172	-0.001	1043265	14.6	15.0	
RPD = 0.32							

3 Ethane

1	1.510	1.511	-0.001	3889050	27.4	28.6	
2	4.306	4.305	0.001	1745027	27.4	28.6	
RPD = 0.02							

4 Ethylene

1	1.792	1.793	-0.001	2933658	25.5	26.6	
2	4.032	4.032	0.000	1284690	25.5	26.8	
RPD = 0.69							

5 Propane

1	2.534	2.528	0.006	5864755	40.1	40.9	
2	5.932	5.928	0.004	2613101	40.1	41.7	
RPD = 1.89							

6 Acetylene

1	4.034	4.015	0.019	837564	23.7	24.4	M
2	4.136	4.137	-0.001	545422	23.7	25.2	M
RPD = 3.31							

7 Butane

1	4.304	4.286	0.018	6888912	52.9	52.5	
2	7.381	7.375	0.006	3316499	52.9	52.3	
RPD = 0.43							

8 isobutylene

1	5.179	5.163	0.016	4611649	51.1	51.7	
2	7.231	7.227	0.004	2147651	51.1	51.7	
RPD = 0.03							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

RSK7gasMathes_00031

Amount Added: 40.00

Units: uL

Report Date: 17-May-2020 08:59:48

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\003F0401.D

Injection Date: 16-May-2020 11:46:30

Instrument ID: VGC_J

Operator ID: MEIERG

Lims ID: IC L4

Worklist Smp#: 9

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

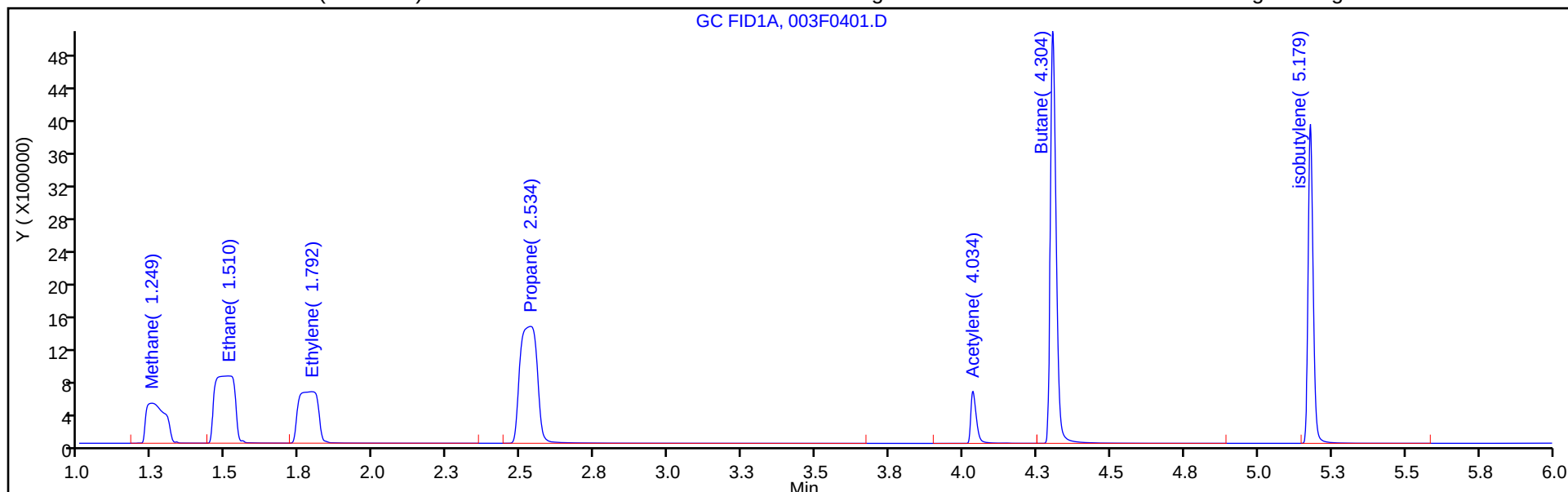
ALS Bottle#: 3

Method: RSK_J

Limit Group: GCV - RSK 175

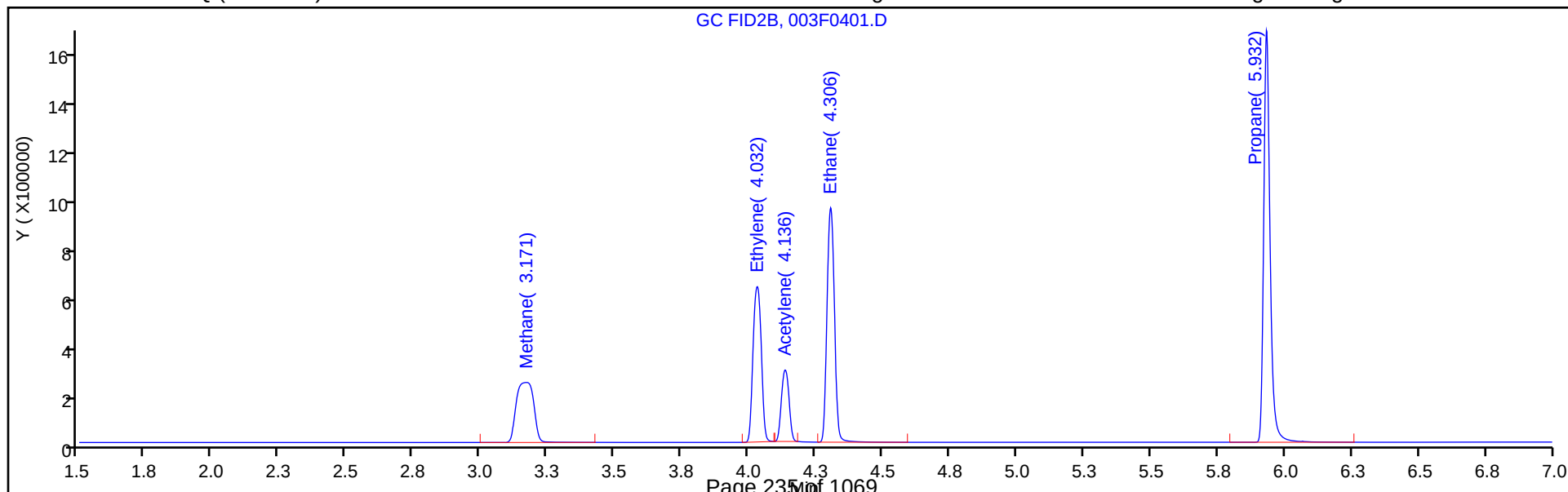
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\004F0501.D
 Lims ID: ICRT L5
 Client ID:
 Sample Type: ICRT Calib Level: 5
 Inject. Date: 16-May-2020 12:02:59 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: ICRT 5
 Operator ID: MEIERG Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 17-May-2020 08:59:48 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX0312

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.250	1.250	0.000	10173489	73.0	70.4	
2	3.172	3.172	0.000	4836394	73.0	70.4	
RPD = 0.05							

3 Ethane

1	1.511	1.511	0.000	18547040	136.9	136.3	
2	4.305	4.305	0.000	8282362	136.9	135.7	
RPD = 0.50							

4 Ethylene

1	1.793	1.793	0.000	14030935	127.7	127.3	M
2	4.032	4.032	0.000	6120221	127.7	127.7	M
RPD = 0.29							

5 Propane

1	2.528	2.528	0.000	28325635	200.7	197.7	
2	5.928	5.928	0.000	12604888	200.7	201.3	
RPD = 1.77							

6 Acetylene

1	4.015	4.015	0.000	3792795	118.5	110.6	Ma
2	4.137	4.137	0.000	2629705	118.5	121.7	M
RPD = 9.57							

7 Butane

1	4.286	4.286	0.000	34343170	264.5	260.4	Ma
2	7.375	7.375	0.000	16648646	264.5	261.1	M
RPD = 0.27							

8 isobutylene

1	5.163	5.163	0.000	23123734	255.4	259.0	
2	7.227	7.227	0.000	10785387	255.4	259.5	
RPD = 0.19							

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031

Amount Added: 200.00

Units: uL

Report Date: 17-May-2020 08:59:48

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\004F0501.D

Injection Date: 16-May-2020 12:02:59

Instrument ID: VGC_J

Operator ID: MEIERG

Lims ID: ICRT L5

Worklist Smp#: 10

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

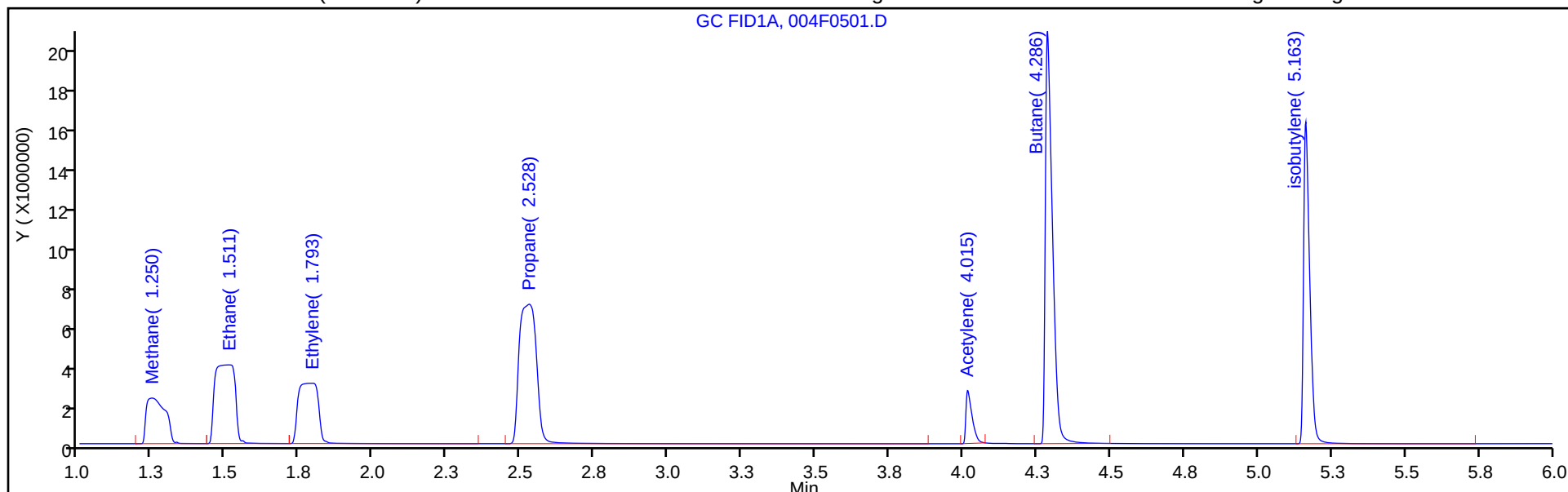
ALS Bottle#: 4

Method: RSK_J

Limit Group: GCV - RSK 175

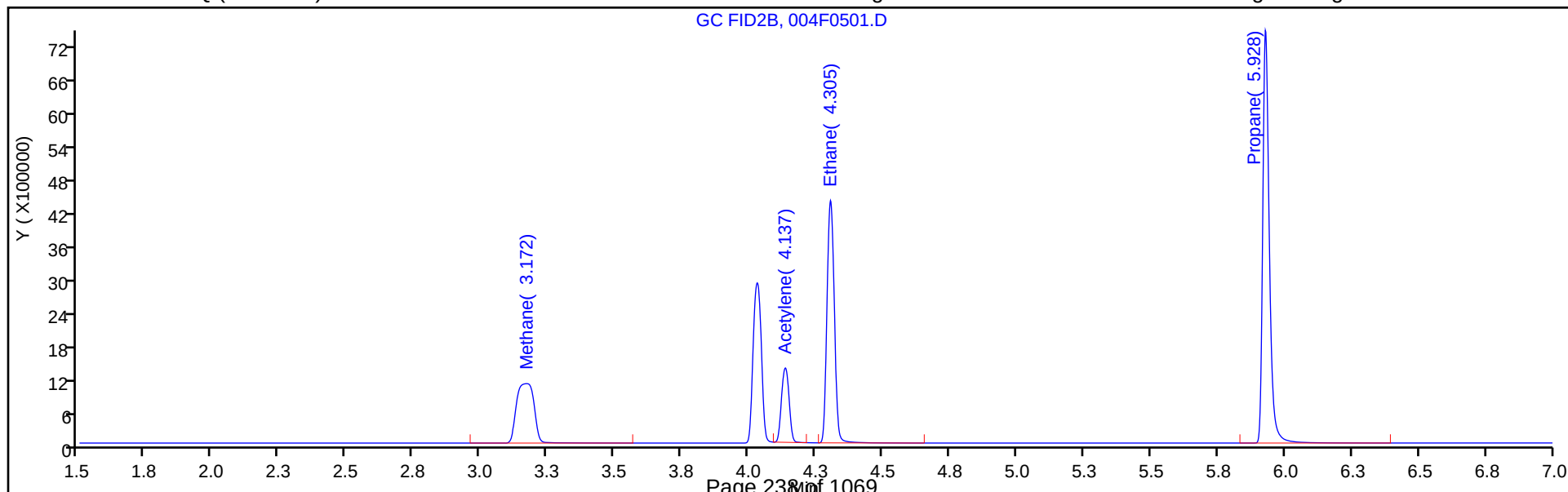
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

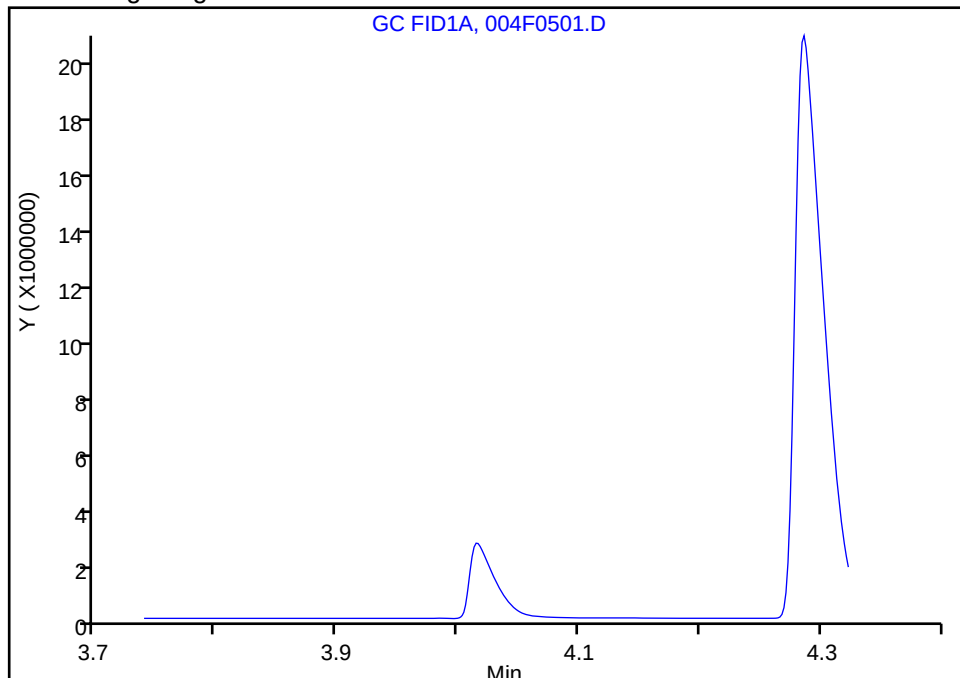
Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\004F0501.D
Injection Date: 16-May-2020 12:02:59 Instrument ID: VGC_J
Lims ID: ICRT L5
Client ID:
Operator ID: MEIERG ALS Bottle#: 4 Worklist Smp#: 10
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: Rt-Alumina BOND/KCI (0.53 mm) Detector: GC FID1A

6 Acetylene, CAS: 74-86-2

Signal: 1

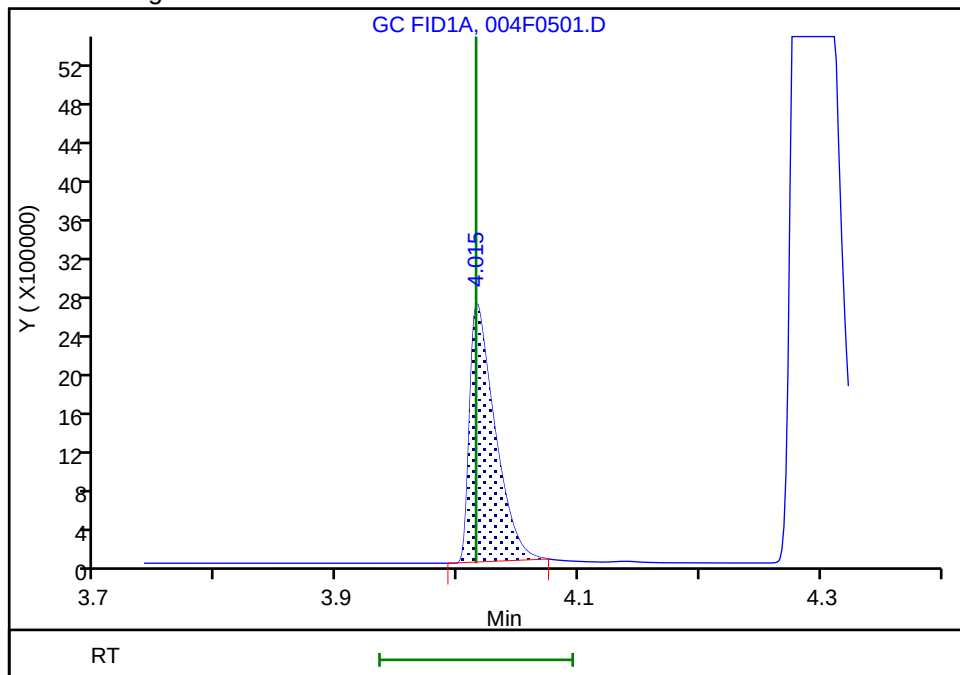
RT: 4.01
Area: 0
Amount: 70.054658
Amount Units: ug/l

Processing Integration Results



RT: 4.01
Area: 3792795
Amount: 110.5956
Amount Units: ug/l

Manual Integration Results



Reviewer: meierg, 17-May-2020 07:07:53

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Peak not integrated

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\005F0601.D
 Lims ID: IC L6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 16-May-2020 12:19:27 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: IC 6
 Operator ID: MEIERG Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 17-May-2020 08:59:49 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX0312

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.250	1.250	0.000	21349465	146.0	148.2	
2	3.172	3.172	0.000	10129316	146.0	147.7	
RPD = 0.31							

3 Ethane

1	1.512	1.511	0.001	38849075	273.7	285.6	
2	4.306	4.305	0.001	17331467	273.7	283.9	
RPD = 0.60							

4 Ethylene

1	1.785	1.793	-0.008	29199476	255.3	264.9	
2	4.032	4.032	0.000	12731776	255.3	265.6	
RPD = 0.26							

5 Propane

1	2.522	2.528	-0.006	59231481	401.4	413.5	
2	5.926	5.928	-0.002	26366224	401.4	421.0	
RPD = 1.80							

6 Acetylene

1	4.002	4.015	-0.013	8293493	237.0	241.8	M
2	4.137	4.137	0.000	5438964	237.0	251.7	M
RPD = 4.01							

7 Butane

1	4.270	4.286	-0.016	71750490	529.0	543.6	
2	7.369	7.375	-0.006	34602301	529.0	542.3	
RPD = 0.25							

8 isobutylene

1	5.150	5.163	-0.013	47351348	510.8	530.4	M
2	7.222	7.227	-0.005	22287396	510.8	536.3	a
RPD = 1.10							

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031

Amount Added: 400.00

Units: uL

Report Date: 17-May-2020 08:59:49

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\005F0601.D

Injection Date: 16-May-2020 12:19:27

Instrument ID: VGC_J

Operator ID: MEIERG

Lims ID: IC L6

Worklist Smp#: 11

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

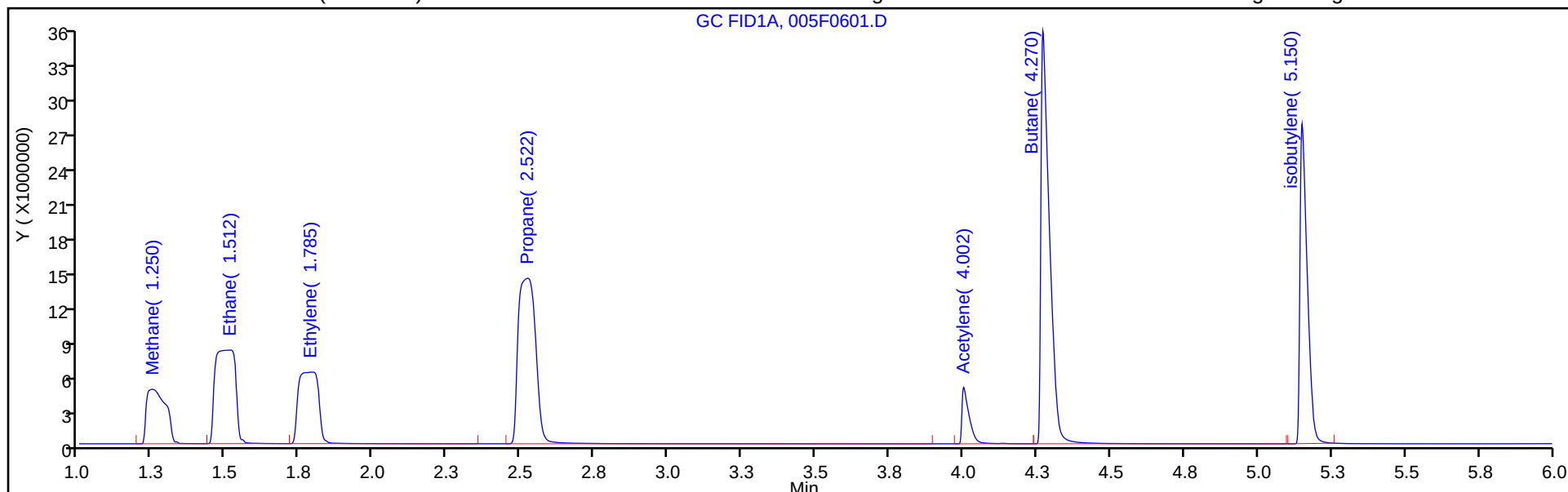
ALS Bottle#: 5

Method: RSK_J

Limit Group: GCV - RSK 175

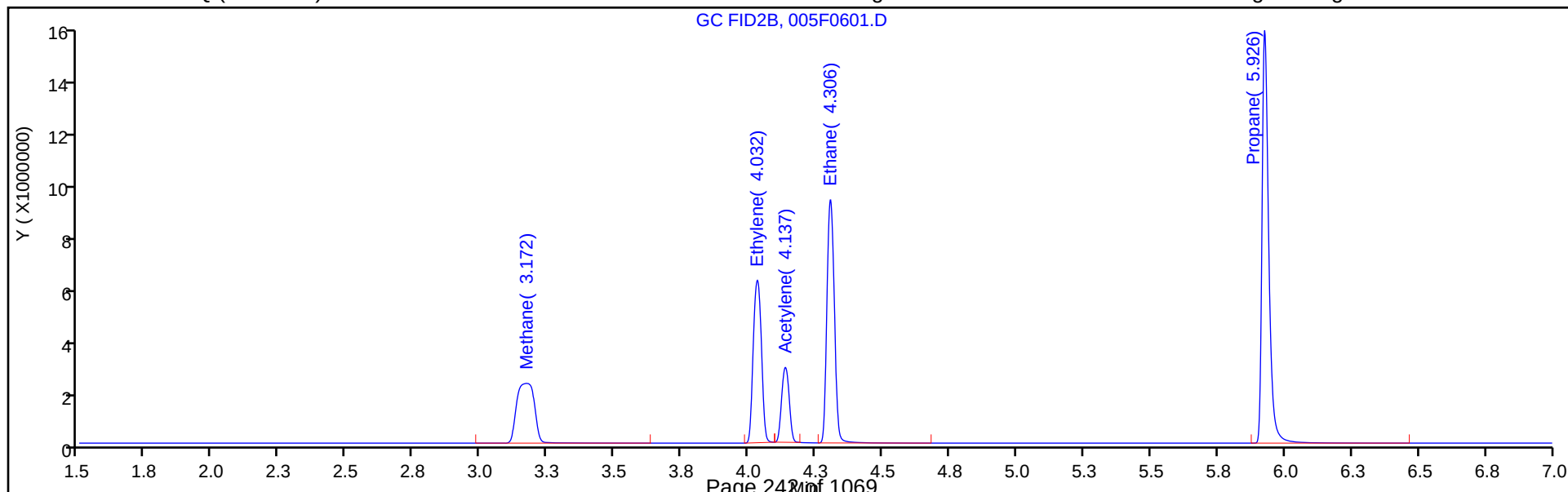
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\006F0701.D
 Lims ID: IC L7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 16-May-2020 12:35:56 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: IC 7
 Operator ID: MEIERG Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 17-May-2020 08:59:49 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX0312

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.243	1.250	-0.007	40706597	292.0	282.9	
2	3.168	3.172	-0.004	19242711	292.0	280.9	
RPD = 0.71							

3 Ethane

1	1.508	1.511	-0.003	74364849	547.4	546.6	
2	4.302	4.305	-0.003	33180606	547.4	543.4	
RPD = 0.58							

4 Ethylene

1	1.785	1.793	-0.008	55873290	510.7	507.0	
2	4.028	4.032	-0.004	24365732	510.7	508.3	
RPD = 0.27							

5 Propane

1	2.510	2.528	-0.018	113846992	802.8	794.7	
2	5.920	5.928	-0.008	50751227	802.8	810.3	
RPD = 1.94							

6 Acetylene

1	3.983	4.015	-0.032	15971476	474.1	465.7	M
2	4.135	4.137	-0.002	10316086	474.1	477.5	M
RPD = 2.49							

7 Butane

1	4.250	4.286	-0.036	137944774	1058.1	1044.9	
2	7.362	7.375	-0.013	67311032	1058.1	1054.6	
RPD = 0.92							

8 isobutylene

1	5.133	5.163	-0.030	92637372	1021.5	1037.7	
2	7.217	7.227	-0.010	43289193	1021.5	1041.6	
RPD = 0.38							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

RSK7gasMathes_00031

Amount Added: 800.00

Units: uL

Report Date: 17-May-2020 08:59:49

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\006F0701.D

Injection Date: 16-May-2020 12:35:56

Instrument ID: VGC_J

Operator ID: MEIERG

Lims ID: IC L7

Worklist Smp#: 12

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

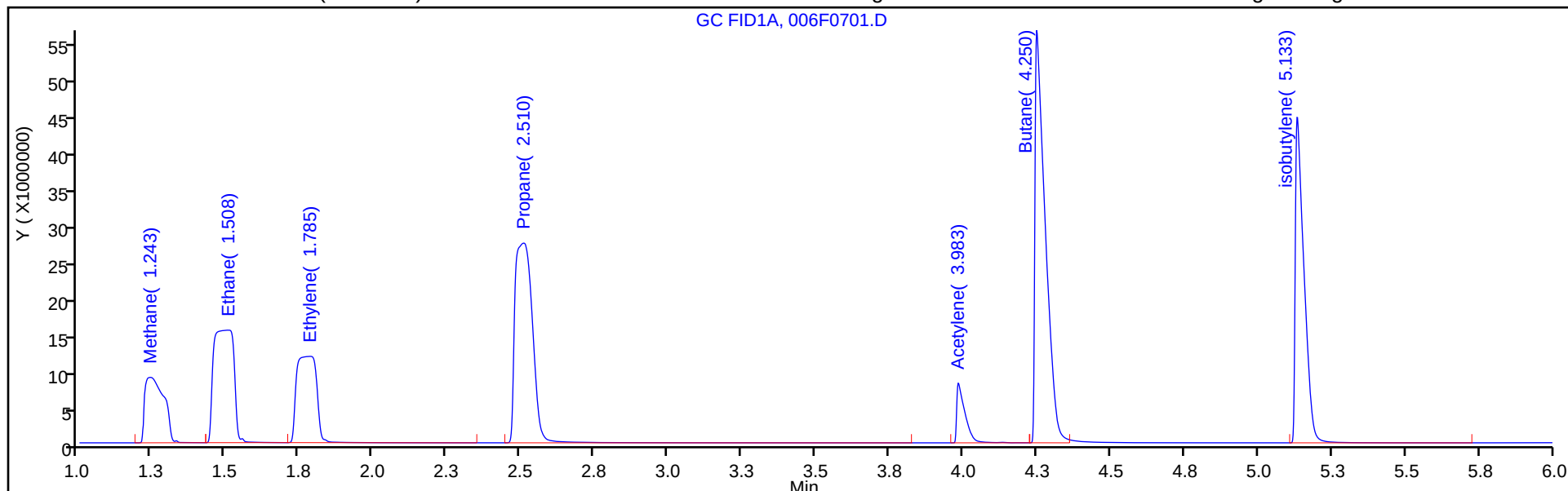
ALS Bottle#: 6

Method: RSK_J

Limit Group: GCV - RSK 175

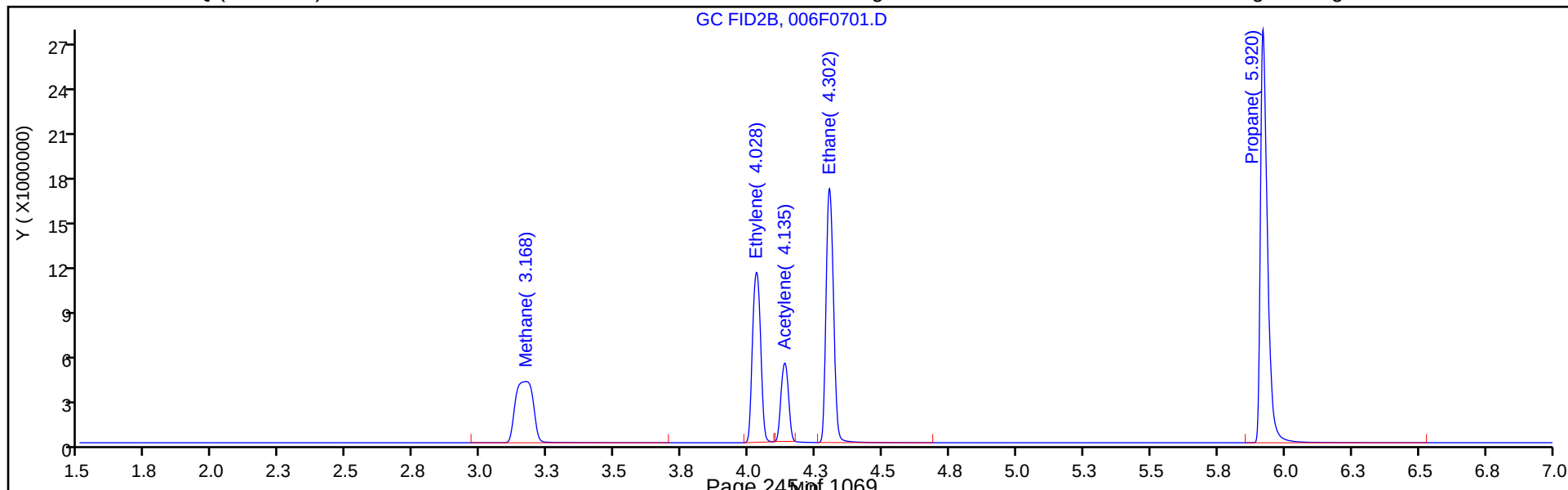
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\007F0801.D
 Lims ID: IC L8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 16-May-2020 12:52:27 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: IC 8
 Operator ID: MEIERG Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 17-May-2020 08:59:50 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX0312

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.248	1.250	-0.002	256592942	1806.9	1784.9
2	3.168	3.172	-0.004	121745624	1806.9	1778.4

RPD = 0.36

Reagents:

RSK175methane_00010

Amount Added: 50.00

Units: uL

Report Date: 17-May-2020 08:59:50

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\007F0801.D

Injection Date: 16-May-2020 12:52:27

Instrument ID: VGC_J

Operator ID: MEIERG

Lims ID: IC L8

Worklist Smp#: 13

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

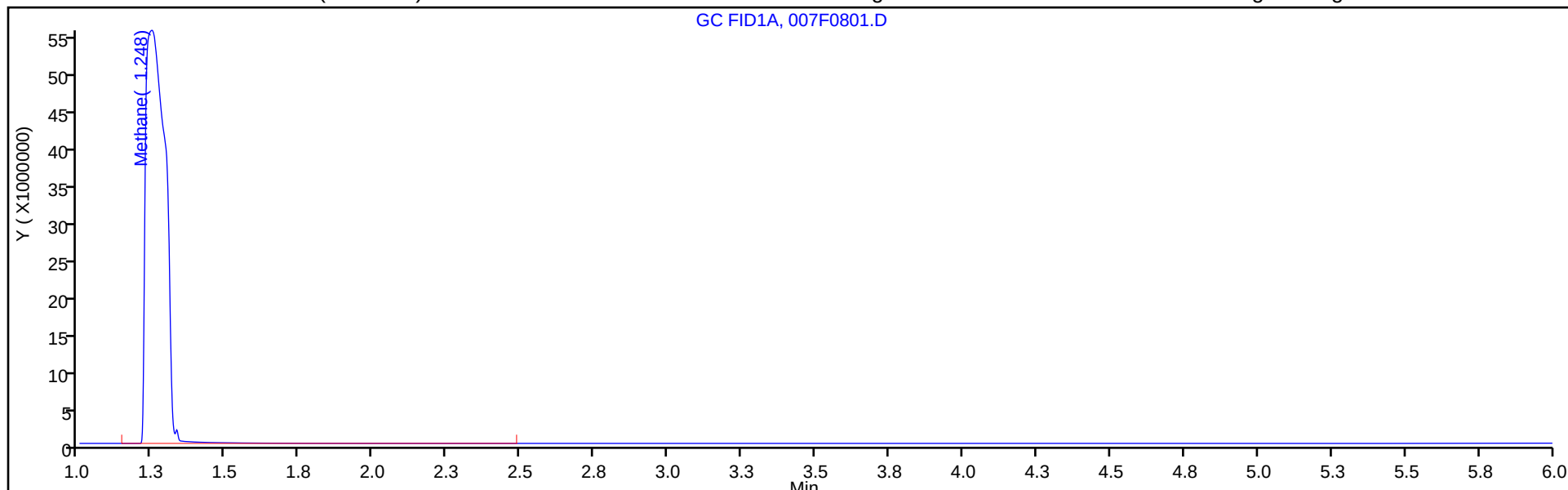
ALS Bottle#: 7

Method: RSK_J

Limit Group: GCV - RSK 175

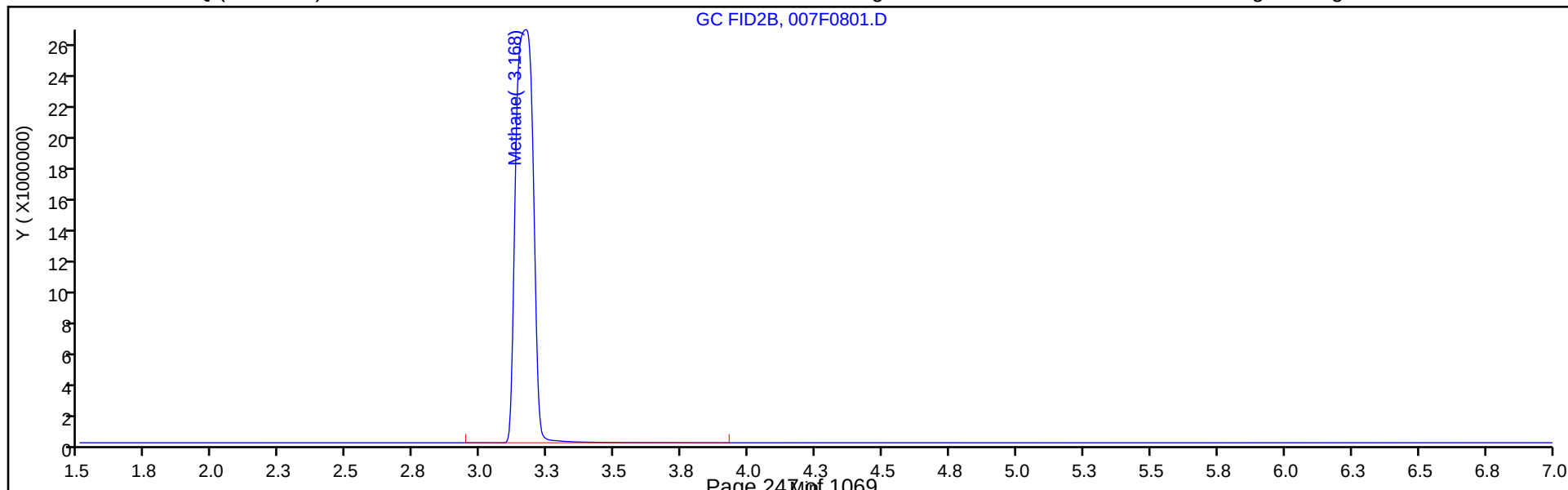
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Lims ID: IC L9
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 16-May-2020 13:08:56 ALS Bottle#: 9 Worklist Smp#: 14
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: IC 9
 Operator ID: MEIERG Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 17-May-2020 08:59:50 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX0312

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.245	1.250	-0.005	1008615918	7227.8	7016.9	
2	3.160	3.172	-0.012	484781088	7227.8	7082.2	

RPD = 0.93

Reagents:

RSK175methane_00010 Amount Added: 200.00 Units: uL

Report Date: 17-May-2020 08:59:50

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D

Injection Date: 16-May-2020 13:08:56

Instrument ID: VGC_J

Operator ID: MEIERG

Lims ID: IC L9

Worklist Smp#: 14

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

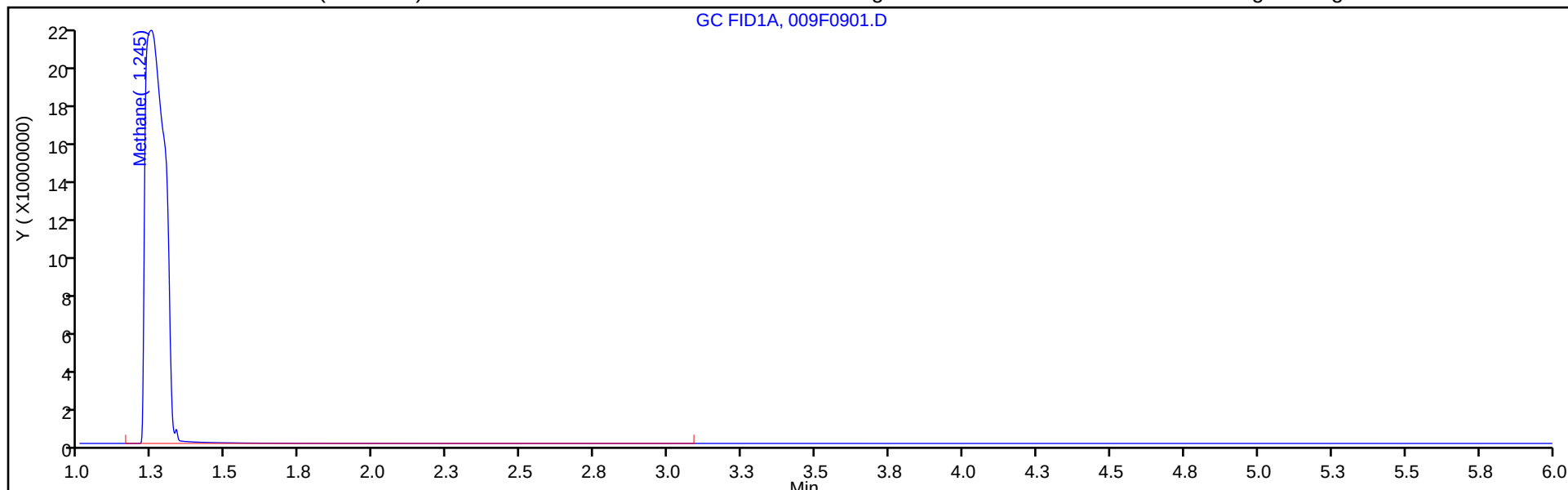
ALS Bottle#: 9

Method: RSK_J

Limit Group: GCV - RSK 175

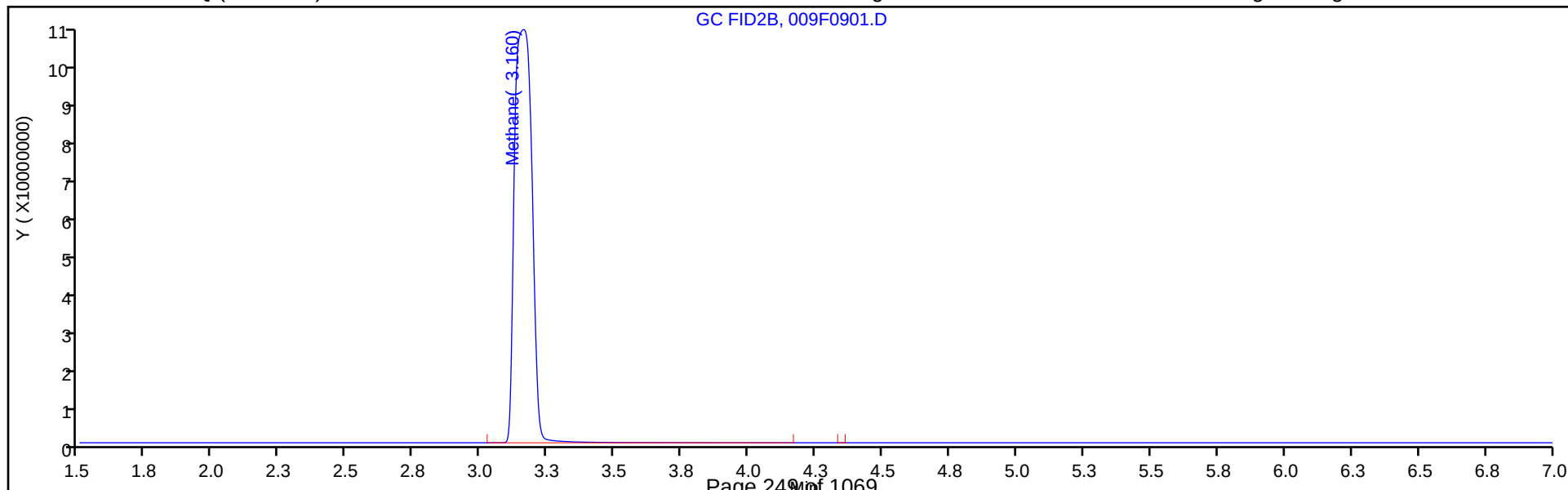
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1 Analy Batch No.: 495152

SDG No.: _____

Instrument ID: VGC_J GC Column: HP-Plot Q ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/16/2020 10:57 Calibration End Date: 05/16/2020 13:08 Calibration ID: 44286

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-495152/6	001F0101.D
Level 2	IC 280-495152/7	001F0201.D
Level 3	IC 280-495152/8	002F0301.D
Level 4	IC 280-495152/9	003F0401.D
Level 5	ICRT 280-495152/10	004F0501.D
Level 6	IC 280-495152/11	005F0601.D
Level 7	IC 280-495152/12	006F0701.D
Level 8	IC 280-495152/13	007F0801.D
Level 9	IC 280-495152/14	009F0901.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
Methane	3.180	3.171	3.169	3.171	3.172	3.172	3.168	3.168	3.160		3.132 - 3.212	3.170
Ethylene	4.038	4.031	4.031	4.032	4.032	4.032	4.028				3.982 - 4.082	4.032
Acetylene	4.142	4.136	4.136	4.136	4.137	4.137	4.135				4.057 - 4.217	4.137
Ethane	4.310	4.306	4.306	4.306	4.305	4.306	4.302				4.255 - 4.355	4.306

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1 Analy Batch No.: 495152

SDG No.: _____

Instrument ID: VGC_J GC Column: HP-Plot Q ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/16/2020 10:57 Calibration End Date: 05/16/2020 13:08 Calibration ID: 44286

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-495152/6	001F0101.D
Level 2	IC 280-495152/7	001F0201.D
Level 3	IC 280-495152/8	002F0301.D
Level 4	IC 280-495152/9	003F0401.D
Level 5	ICRT 280-495152/10	004F0501.D
Level 6	IC 280-495152/11	005F0601.D
Level 7	IC 280-495152/12	006F0701.D
Level 8	IC 280-495152/13	007F0801.D
Level 9	IC 280-495152/14	009F0901.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	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								
Methane	103189 66249 67072	91938 69376	81470 65897	71453 67377	Lin2	17305.4468	68448.1220							0.9980		0.9900
Ethylene	41850 47939	48398 49863	49458 47714	50314	Ave		47933.7023				6.0		20.0			
Acetylene	17710 22187	21298 22945	22329 21760	23009	Ave		21605.4944				8.4		20.0			
Ethane	53080 60519	62532 63320	63577 60612	63754	Ave		61056.4722				6.2		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1 Analy Batch No.: 495152

SDG No.: _____

Instrument ID: VGC_J GC Column: HP-Plot Q ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/16/2020 10:57 Calibration End Date: 05/16/2020 13:08 Calibration ID: 44286

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-495152/6	001F0101.D
Level 2	IC 280-495152/7	001F0201.D
Level 3	IC 280-495152/8	002F0301.D
Level 4	IC 280-495152/9	003F0401.D
Level 5	ICRT 280-495152/10	004F0501.D
Level 6	IC 280-495152/11	005F0601.D
Level 7	IC 280-495152/12	006F0701.D
Level 8	IC 280-495152/13	007F0801.D
Level 9	IC 280-495152/14	009F0901.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Methane	Lin2	47082 10129316	83897 19242711	148689 121745624	1043265 484781088	4836394	0.456 146	0.913 292	1.83 1807	14.6 7228	73.0
Ethylene	Ave	33393 12731776	77235 24365732	157852	1284690	6120221	0.798 255	1.60 511	3.19	25.5	128
Acetylene	Ave	13119 5438964	31554 10316086	66161	545422	2629705	0.741 237	1.48 474	2.96	23.7	119
Ethane	Ave	45402 17331467	106974 33180606	217520	1745027	8282362	0.855 274	1.71 547	3.42	27.4	137

Curve Type Legend:

Ave = Average
Lin2 = Linear 1/conc^2

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\001F0101.D
 Lims ID: IC L1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-May-2020 10:57:08 ALS Bottle#: 1 Worklist Smp#: 6
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: IC 1
 Operator ID: MEIERG Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 17-May-2020 08:59:46 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX0312

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.250	1.250	0.000	111434	0.4563	0.4358	
2	3.180	3.172	0.008	47082	0.4563	0.4350	

RPD = 0.19

3 Ethane

1	1.513	1.511	0.002	99432	0.8553	0.7309	Ma
2	4.310	4.305	0.005	45402	0.8553	0.7436	M

RPD = 1.73

4 Ethylene

1	1.795	1.793	0.002	75924	0.7979	0.6889	
2	4.038	4.032	0.006	33393	0.7979	0.6966	

RPD = 1.12

5 Propane

1	2.535	2.528	0.007	162619	1.25	1.14	
2	5.932	5.928	0.004	68003	1.25	1.09	

RPD = 4.45

6 Acetylene

1	4.048	4.015	0.033	24105	0.7408	0.7029	M
2	4.142	4.137	0.005	13119	0.7408	0.6072	M

RPD = 14.61

7 Butane

1	4.315	4.286	0.029	175523	1.65	1.66	Ma
2	7.382	7.375	0.007	85626	1.65	1.67	M

RPD = 0.36

8 isobutylene

1	5.190	5.163	0.027	120280	1.60	1.35	
2	7.232	7.227	0.005	54094	1.60	1.30	

RPD = 3.46

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031

Amount Added: 1.25

Units: uL

Report Date: 17-May-2020 08:59:46

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\001F0101.D

Injection Date: 16-May-2020 10:57:08

Instrument ID: VGC_J

Operator ID: MEIERG

Lims ID: IC L1

Worklist Smp#: 6

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

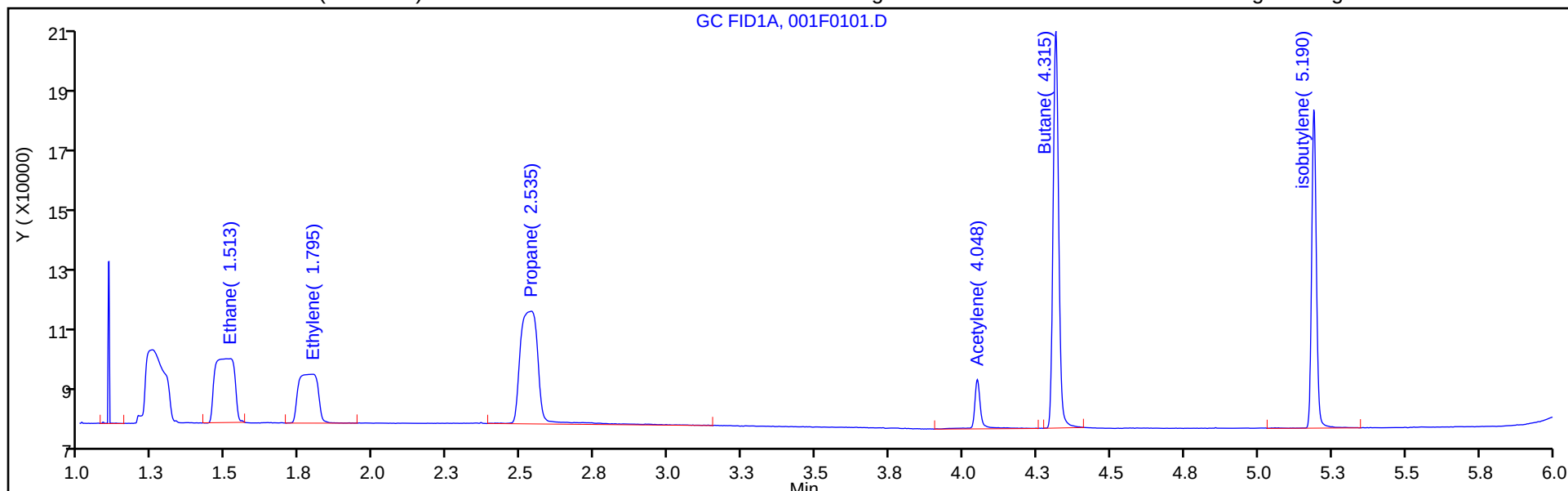
ALS Bottle#: 1

Method: RSK_J

Limit Group: GCV - RSK 175

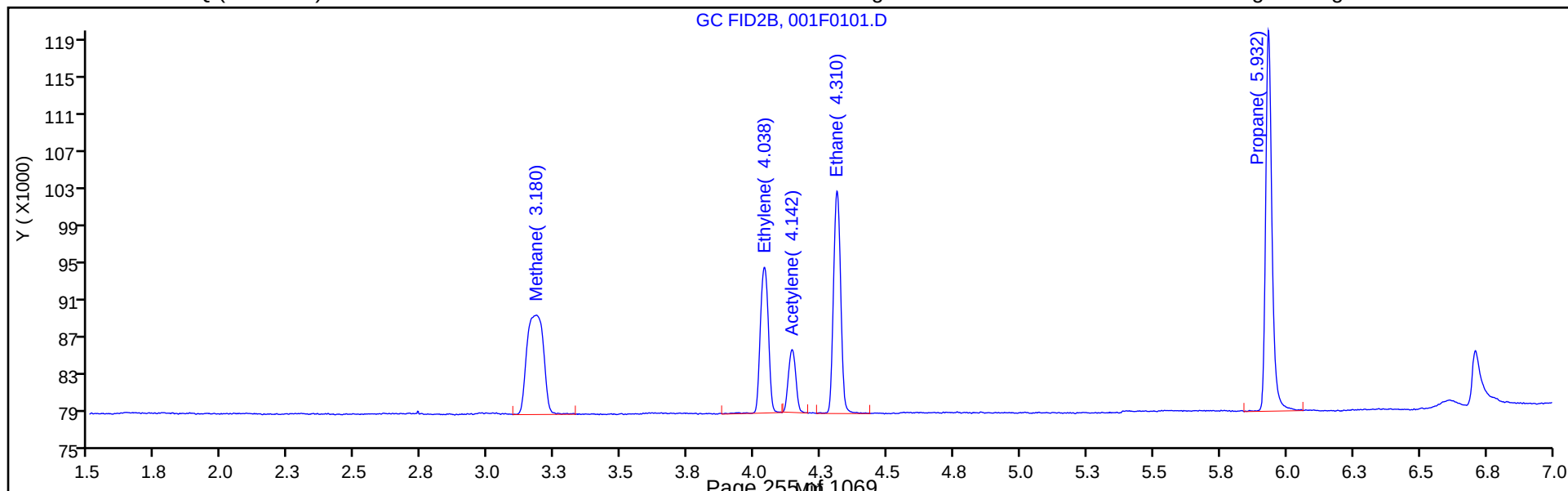
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

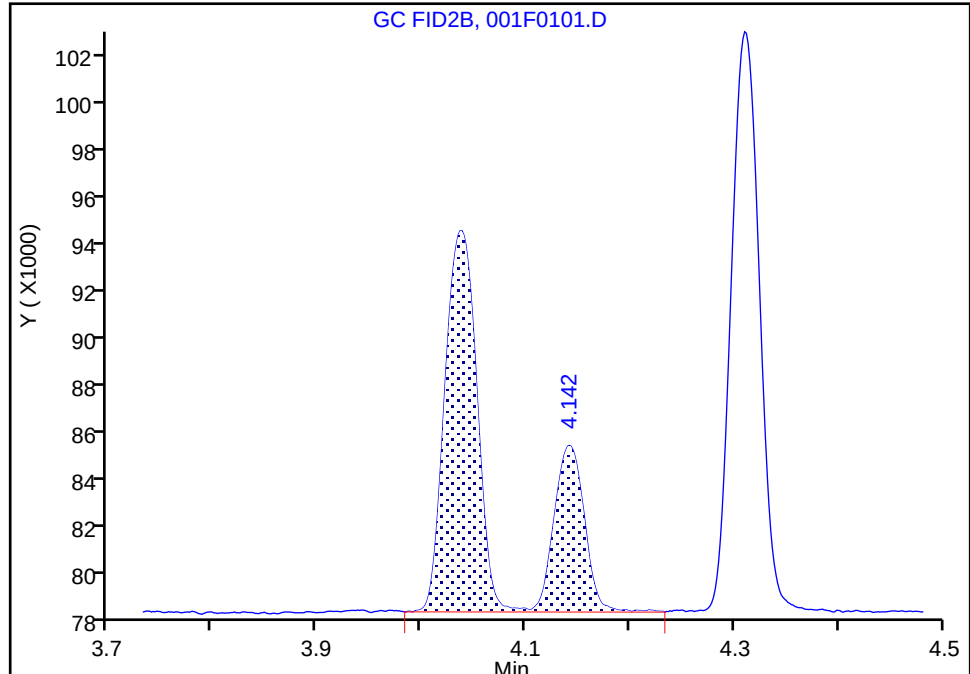
Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\001F0101.D
Injection Date: 16-May-2020 10:57:08 Instrument ID: VGC_J
Lims ID: IC L1
Client ID:
Operator ID: MEIERG ALS Bottle#: 1 Worklist Smp#: 6
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: HP-PLOT/Q (0.53 mm) Detector: GC FID2B

6 Acetylene, CAS: 74-86-2

Signal: 2

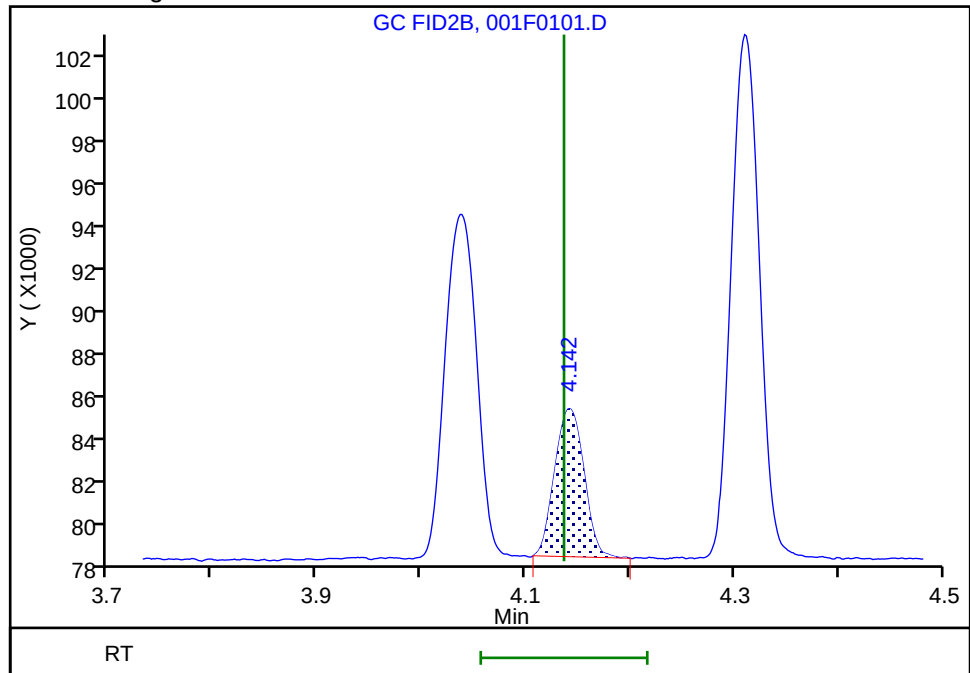
RT: 4.14
Area: 47095
Amount: 1.672538
Amount Units: ug/l

Processing Integration Results



RT: 4.14
Area: 13119
Amount: 0.607207
Amount Units: ug/l

Manual Integration Results



Reviewer: meierg, 17-May-2020 07:19:02
Audit Action: Manually Integrated

Audit Reason: Shouldering

Eurofins TestAmerica, Denver

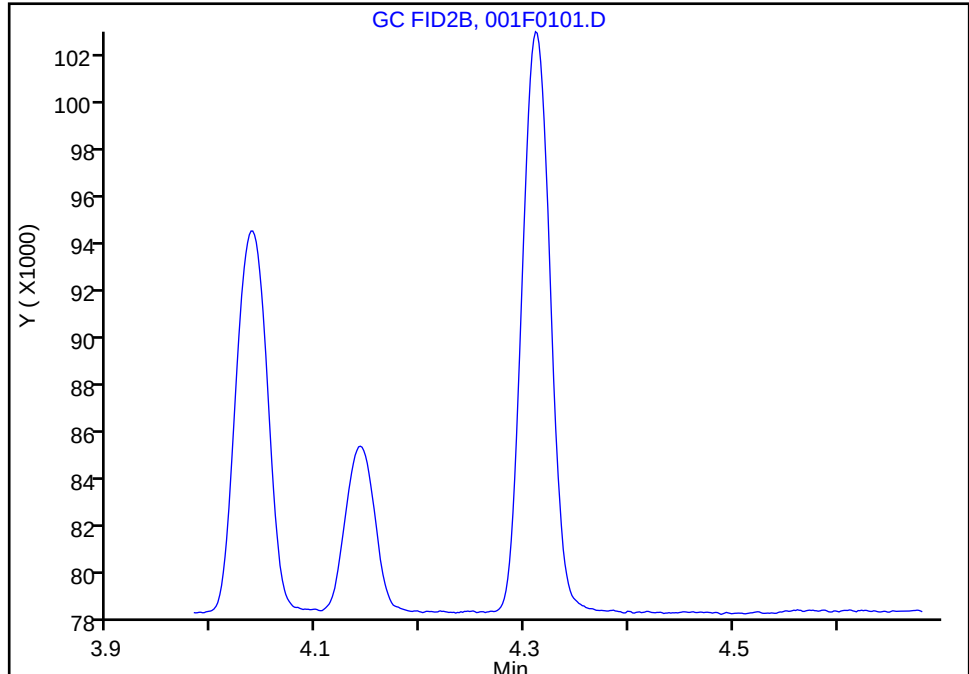
Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\001F0101.D
Injection Date: 16-May-2020 10:57:08 Instrument ID: VGC_J
Lims ID: IC L1
Client ID:
Operator ID: MEIERG ALS Bottle#: 1 Worklist Smp#: 6
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: HP-PLOT/Q (0.53 mm) Detector: GC FID2B

3 Ethane, CAS: 74-84-0

Signal: 2

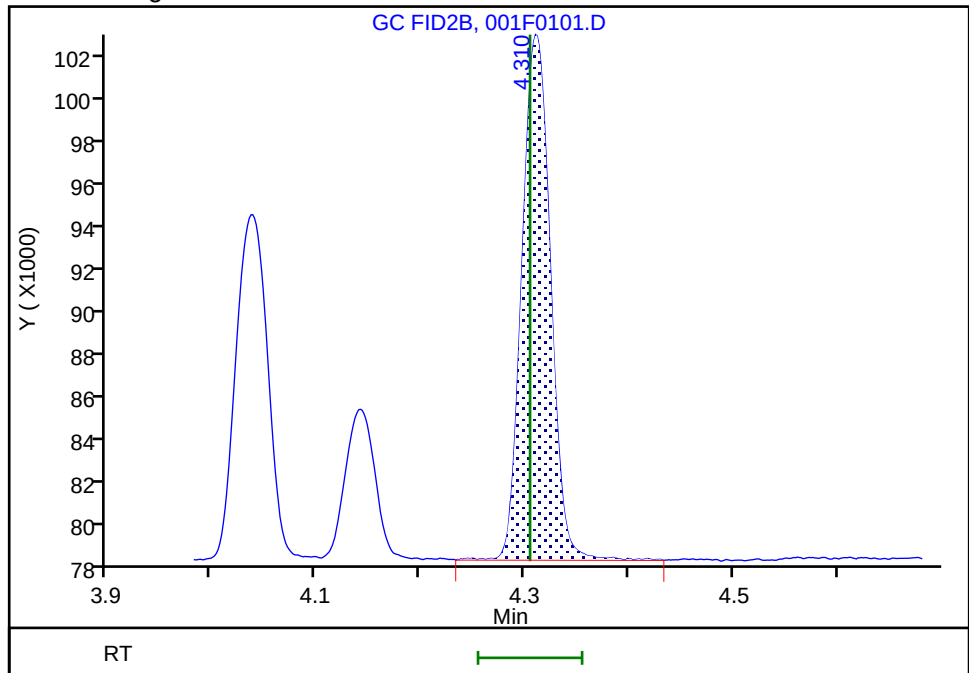
Not Detected
Expected RT: 4.30

Processing Integration Results



RT: 4.31
Area: 45402
Amount: 0.743607
Amount Units: ug/l

Manual Integration Results



Reviewer: meierg, 17-May-2020 06:37:15
Audit Action: Assigned Compound ID

Audit Reason: Peak not integrated

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\001F0201.D
 Lims ID: IC L2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-May-2020 11:13:34 ALS Bottle#: 1 Worklist Smp#: 7
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: IC 2
 Operator ID: MEIERG Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 17-May-2020 08:59:46 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX0312

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.251	1.250	0.001	188199	0.9125	0.9699	
2	3.171	3.172	-0.001	83897	0.9125	0.9729	
RPD = 0.31							

3 Ethane

1	1.514	1.511	0.003	237424	1.71	1.75	
2	4.306	4.305	0.001	106974	1.71	1.75	
RPD = 0.39							

4 Ethylene

1	1.788	1.793	-0.005	180285	1.60	1.64	M
2	4.031	4.032	-0.001	77235	1.60	1.61	M
RPD = 1.51							

5 Propane

1	2.534	2.528	0.006	366612	2.51	2.56	
2	5.933	5.928	0.005	156230	2.51	2.49	
RPD = 2.56							

6 Acetylene

1	4.044	4.015	0.029	52951	1.48	1.54	Ma
2	4.136	4.137	-0.001	31554	1.48	1.46	M
RPD = 5.56							

7 Butane

1	4.311	4.286	0.025	384054	3.31	3.24	
2	7.381	7.375	0.006	184917	3.31	3.22	
RPD = 0.55							

8 isobutylene

1	5.186	5.163	0.023	261296	3.19	2.93	
2	7.231	7.227	0.004	119878	3.19	2.88	
RPD = 1.46							

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031

Amount Added: 2.50

Units: uL

Report Date: 17-May-2020 08:59:47

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\001F0201.D

Injection Date: 16-May-2020 11:13:34

Instrument ID: VGC_J

Operator ID: MEIERG

Lims ID: IC L2

Worklist Smp#: 7

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

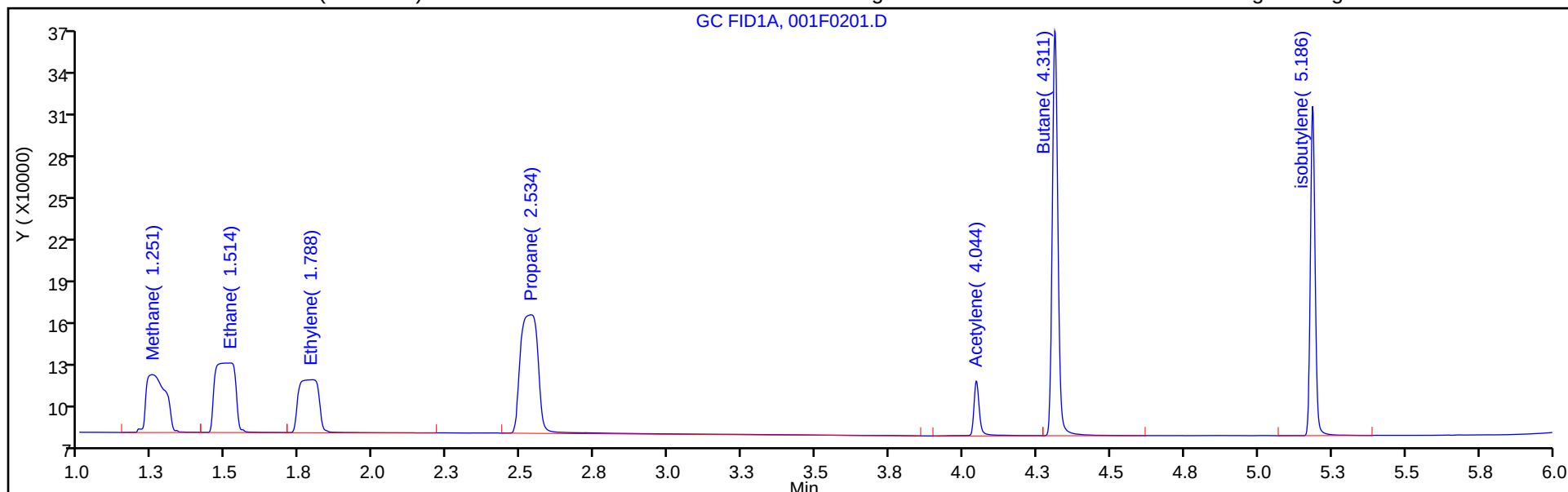
ALS Bottle#: 1

Method: RSK_J

Limit Group: GCV - RSK 175

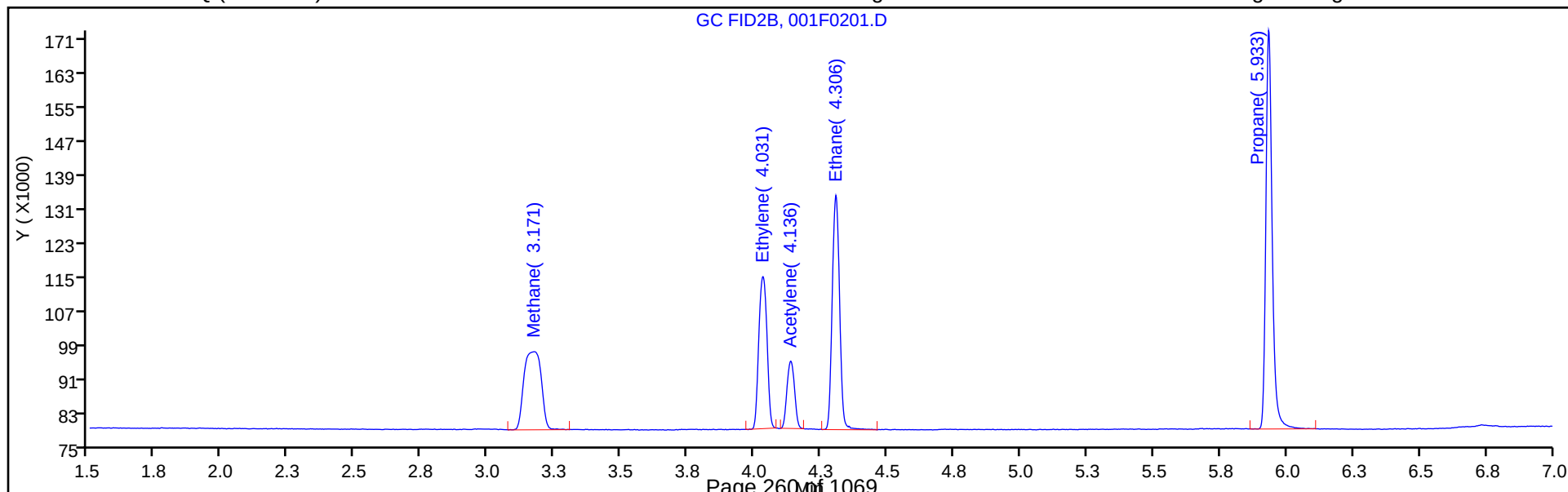
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

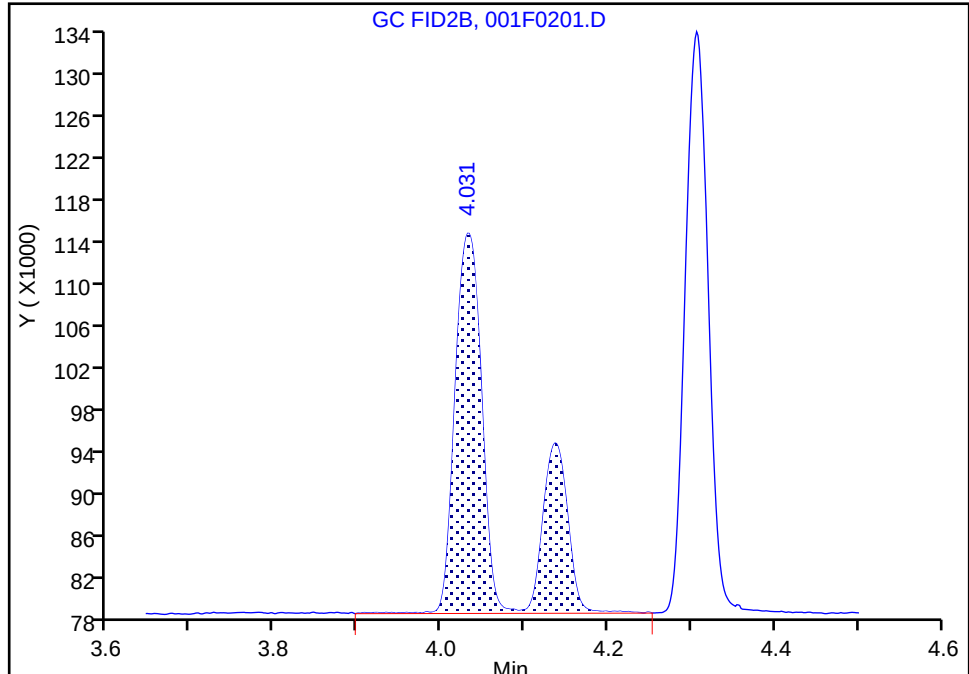
Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\001F0201.D
Injection Date: 16-May-2020 11:13:34 Instrument ID: VGC_J
Lims ID: IC L2
Client ID:
Operator ID: MEIERG ALS Bottle#: 1 Worklist Smp#: 7
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: HP-PLOT/Q (0.53 mm) Detector: GC FID2B

4 Ethylene, CAS: 74-85-1

Signal: 2

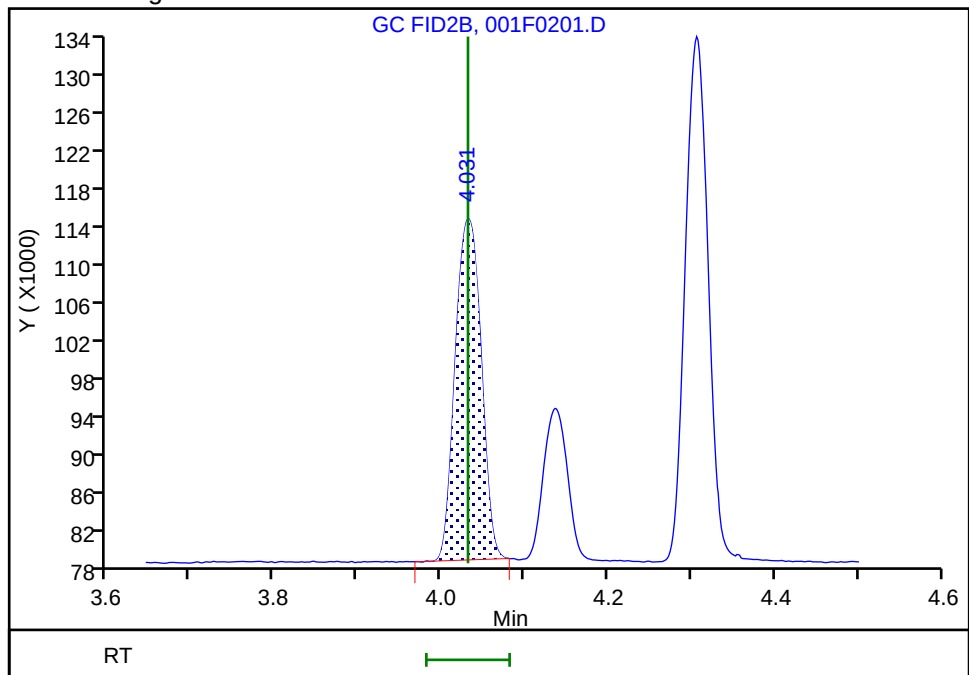
RT: 4.03
Area: 113071
Amount: 2.160644
Amount Units: ug/l

Processing Integration Results



RT: 4.03
Area: 77235
Amount: 1.611288
Amount Units: ug/l

Manual Integration Results



Reviewer: meierg, 17-May-2020 06:43:17
Audit Action: Manually Integrated

Audit Reason: Shouldering

Eurofins TestAmerica, Denver

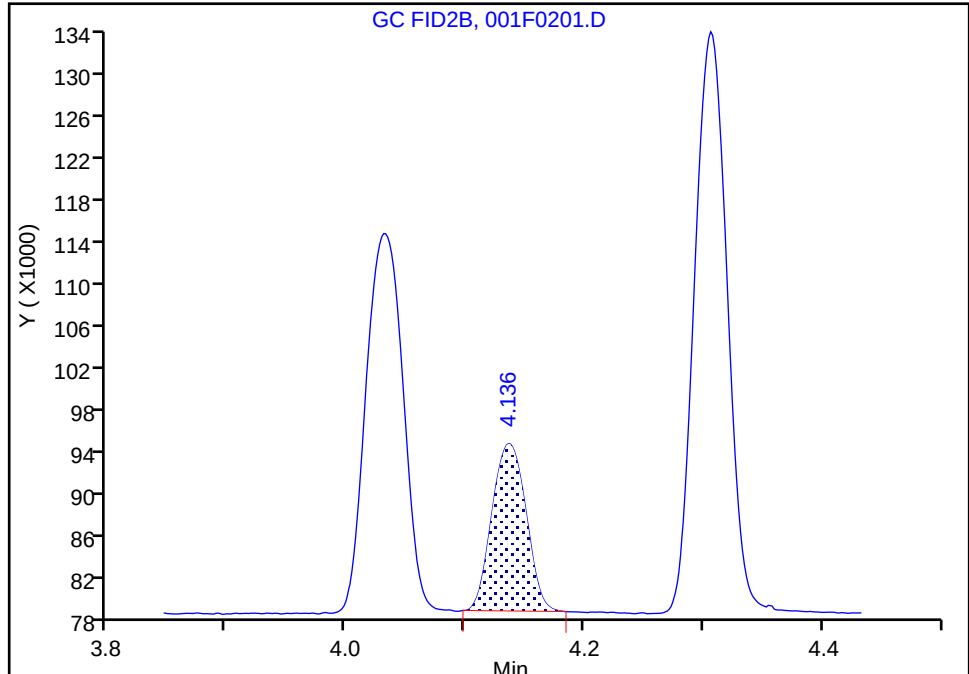
Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\001F0201.D
Injection Date: 16-May-2020 11:13:34 Instrument ID: VGC_J
Lims ID: IC L2
Client ID:
Operator ID: MEIERG ALS Bottle#: 1 Worklist Smp#: 7
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: HP-PLOT/Q (0.53 mm) Detector: GC FID2B

6 Acetylene, CAS: 74-86-2

Signal: 2

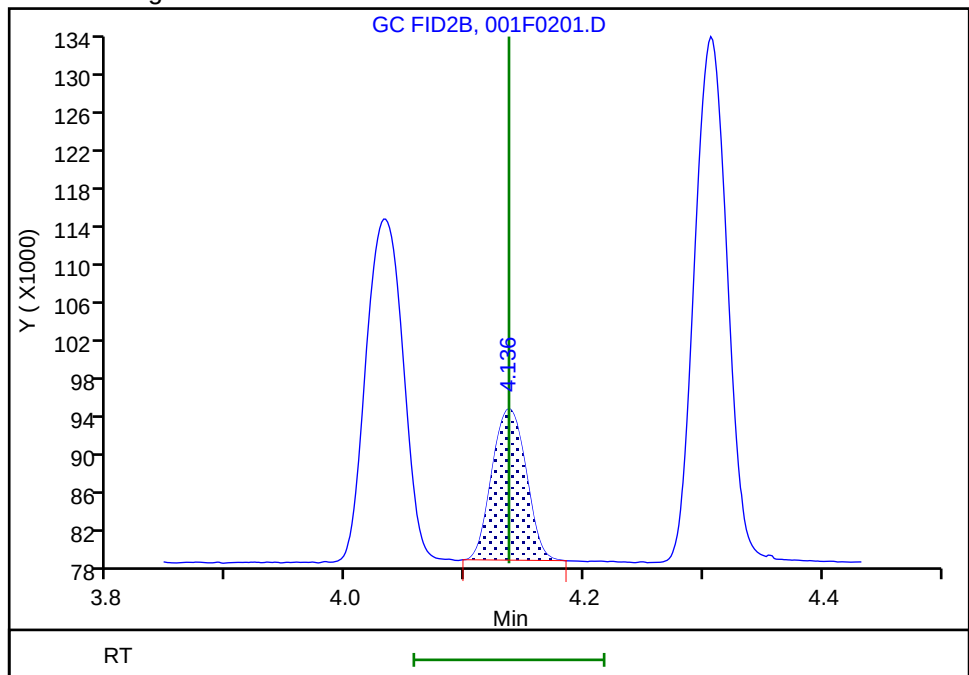
RT: 4.14
Area: 31554
Amount: 1.109766
Amount Units: ug/l

Processing Integration Results



RT: 4.14
Area: 31554
Amount: 1.460462
Amount Units: ug/l

Manual Integration Results



Reviewer: meierg, 17-May-2020 06:43:43

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Peak not integrated

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\002F0301.D
 Lims ID: IC L3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 16-May-2020 11:30:01 ALS Bottle#: 2 Worklist Smp#: 8
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: IC 3
 Operator ID: MEIERG Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 17-May-2020 08:59:47 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX0312

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.248	1.250	-0.002	324614	1.83	1.92	
2	3.169	3.172	-0.003	148689	1.83	1.92	
RPD = 0.02							

3 Ethane

1	1.511	1.511	0.000	485411	3.42	3.57	
2	4.306	4.305	0.001	217520	3.42	3.56	
RPD = 0.15							

4 Ethylene

1	1.791	1.793	-0.002	366405	3.19	3.32	M
2	4.031	4.032	-0.001	157852	3.19	3.29	M
RPD = 0.95							

5 Propane

1	2.531	2.528	0.003	754733	5.02	5.27	
2	5.933	5.928	0.005	326853	5.02	5.22	
RPD = 0.95							

6 Acetylene

1	4.043	4.015	0.028	105983	2.96	3.09	Ma
2	4.136	4.137	-0.001	66161	2.96	3.06	M
RPD = 0.92							

7 Butane

1	4.311	4.286	0.025	850630	6.61	6.77	
2	7.379	7.375	0.004	410288	6.61	6.75	
RPD = 0.31							

8 isobutylene

1	5.184	5.163	0.021	571566	6.38	6.40	
2	7.229	7.227	0.002	264983	6.38	6.38	
RPD = 0.42							

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031

Amount Added: 5.00

Units: uL

Report Date: 17-May-2020 08:59:47

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\002F0301.D

Injection Date: 16-May-2020 11:30:01

Instrument ID: VGC_J

Operator ID: MEIERG

Lims ID: IC L3

Worklist Smp#: 8

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

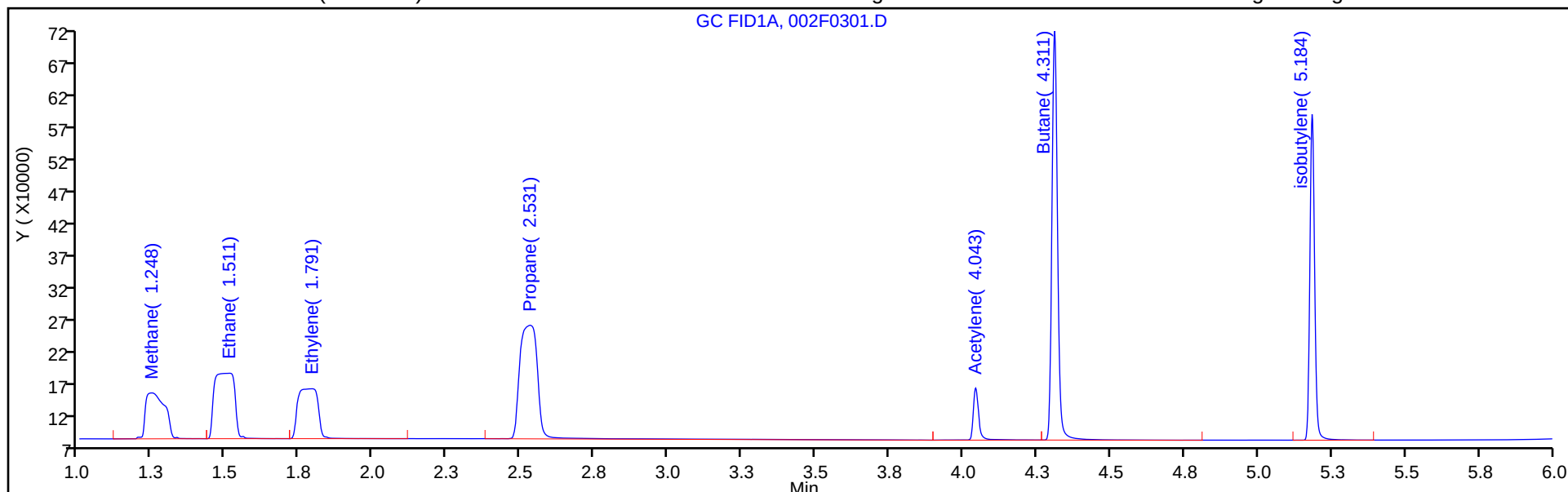
ALS Bottle#: 2

Method: RSK_J

Limit Group: GCV - RSK 175

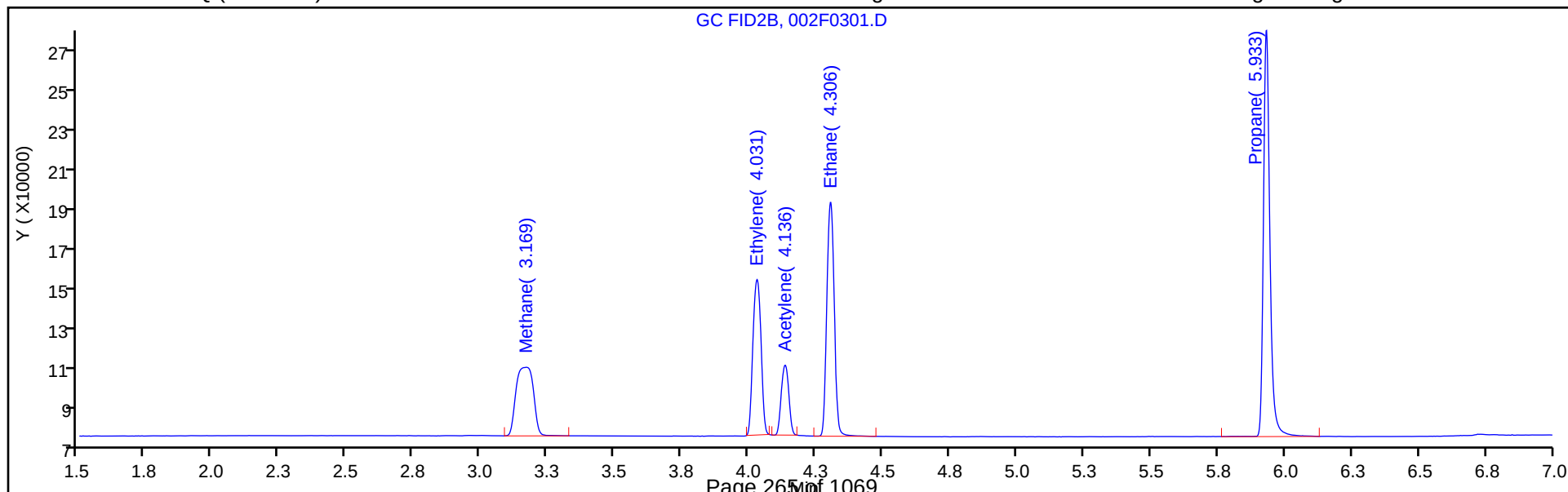
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

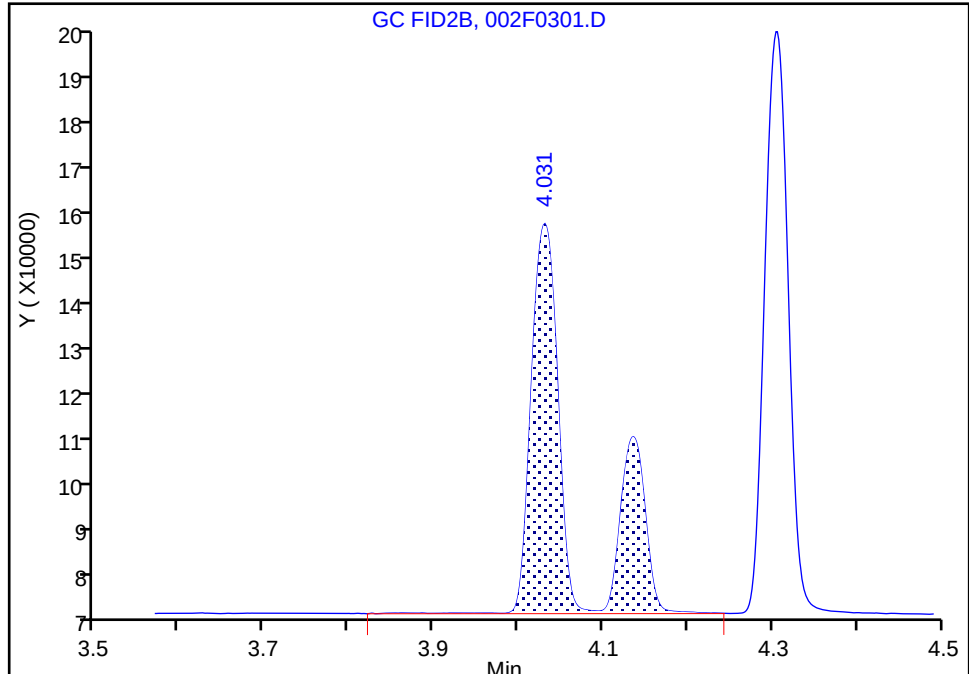
Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\002F0301.D
Injection Date: 16-May-2020 11:30:01 Instrument ID: VGC_J
Lims ID: IC L3
Client ID:
Operator ID: MEIERG ALS Bottle#: 2 Worklist Smp#: 8
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: HP-PLOT/Q (0.53 mm) Detector: GC FID2B

4 Ethylene, CAS: 74-85-1

Signal: 2

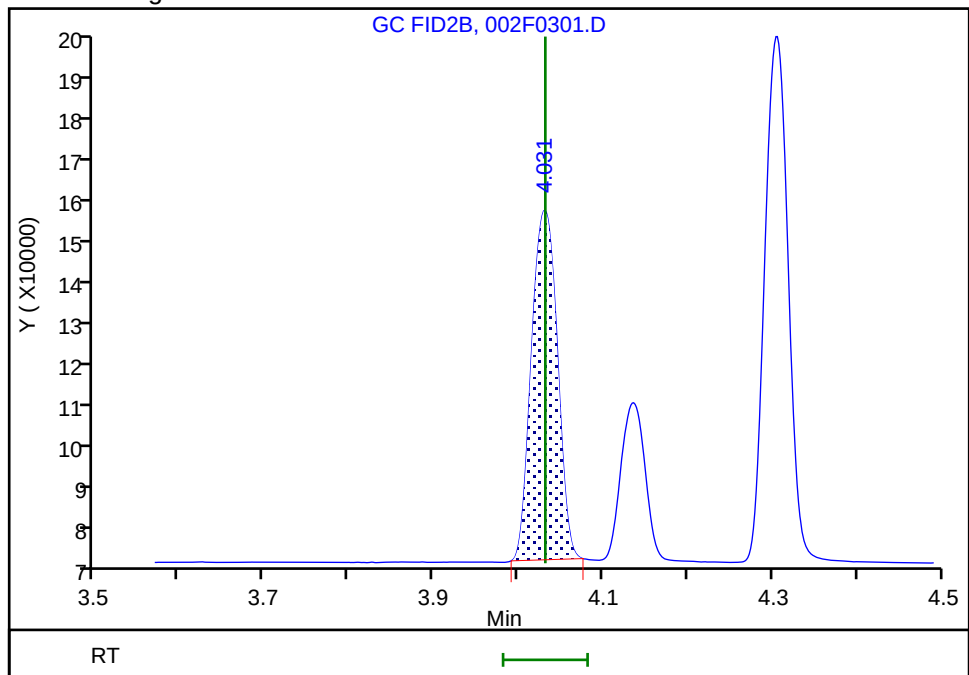
RT: 4.03
Area: 232536
Amount: 4.445704
Amount Units: ug/l

Processing Integration Results



RT: 4.03
Area: 157852
Amount: 3.293132
Amount Units: ug/l

Manual Integration Results



Reviewer: meierg, 17-May-2020 06:44:57

Audit Action: Manually Integrated

Audit Reason: Shouldering

Eurofins TestAmerica, Denver

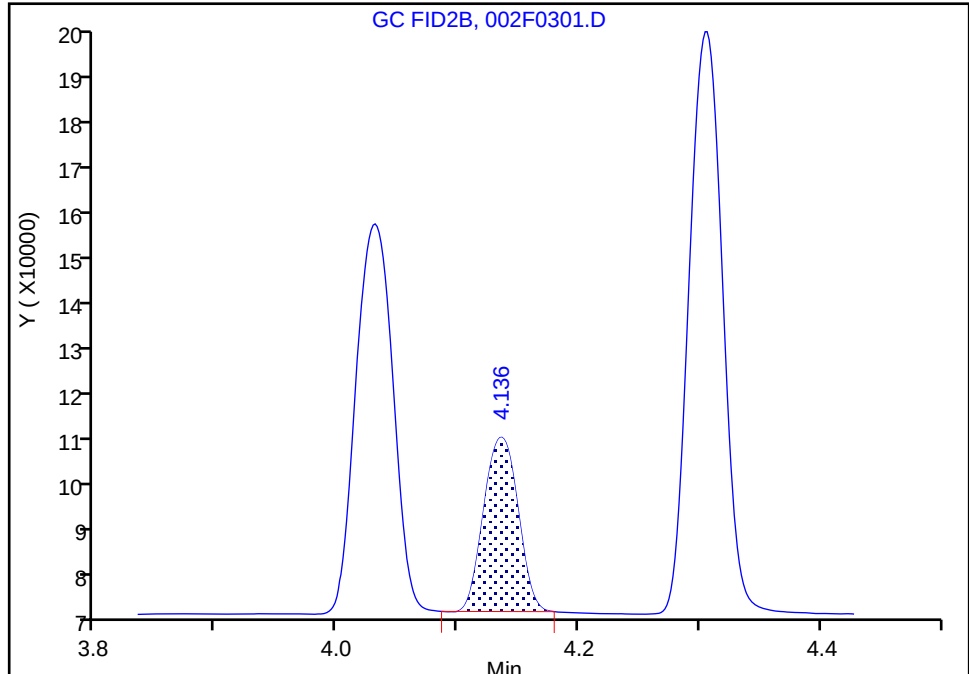
Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\002F0301.D
Injection Date: 16-May-2020 11:30:01 Instrument ID: VGC_J
Lims ID: IC L3
Client ID:
Operator ID: MEIERG ALS Bottle#: 2 Worklist Smp#: 8
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: HP-PLOT/Q (0.53 mm) Detector: GC FID2B

6 Acetylene, CAS: 74-86-2

Signal: 2

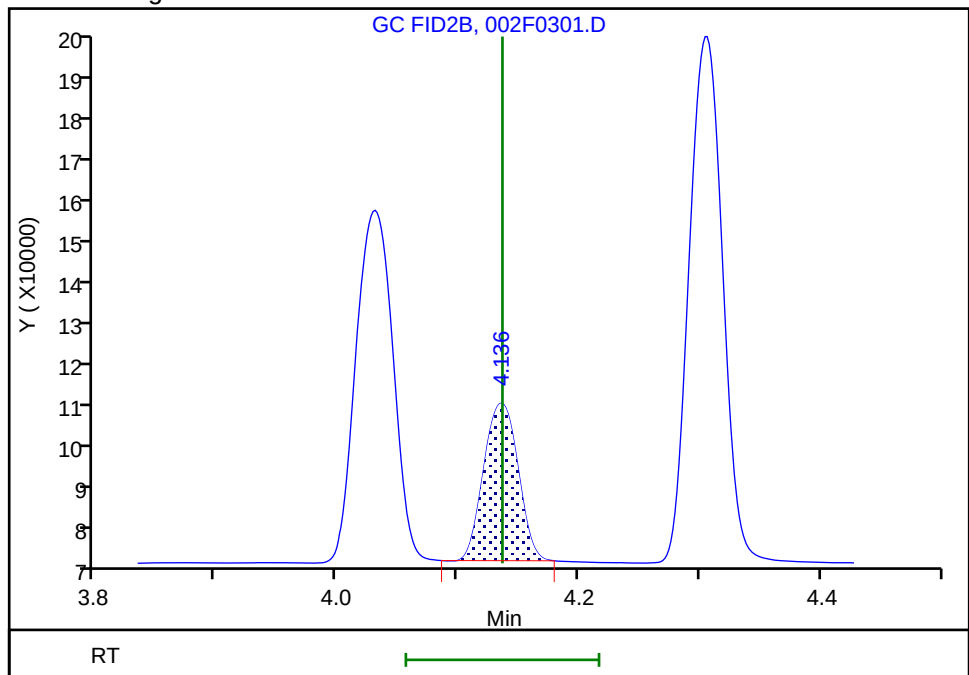
RT: 4.14
Area: 66161
Amount: 2.336755
Amount Units: ug/l

Processing Integration Results



RT: 4.14
Area: 66161
Amount: 3.062230
Amount Units: ug/l

Manual Integration Results



Reviewer: meierg, 17-May-2020 06:45:15

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Peak not integrated

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\003F0401.D
 Lims ID: IC L4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 16-May-2020 11:46:30 ALS Bottle#: 3 Worklist Smp#: 9
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: IC 4
 Operator ID: MEIERG Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 17-May-2020 08:59:48 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX0312

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.249	1.250	-0.001	2196261	14.6	14.9	
2	3.171	3.172	-0.001	1043265	14.6	15.0	
RPD = 0.32							

3 Ethane

1	1.510	1.511	-0.001	3889050	27.4	28.6	
2	4.306	4.305	0.001	1745027	27.4	28.6	
RPD = 0.02							

4 Ethylene

1	1.792	1.793	-0.001	2933658	25.5	26.6	
2	4.032	4.032	0.000	1284690	25.5	26.8	
RPD = 0.69							

5 Propane

1	2.534	2.528	0.006	5864755	40.1	40.9	
2	5.932	5.928	0.004	2613101	40.1	41.7	
RPD = 1.89							

6 Acetylene

1	4.034	4.015	0.019	837564	23.7	24.4	M
2	4.136	4.137	-0.001	545422	23.7	25.2	M
RPD = 3.31							

7 Butane

1	4.304	4.286	0.018	6888912	52.9	52.5	
2	7.381	7.375	0.006	3316499	52.9	52.3	
RPD = 0.43							

8 isobutylene

1	5.179	5.163	0.016	4611649	51.1	51.7	
2	7.231	7.227	0.004	2147651	51.1	51.7	
RPD = 0.03							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

RSK7gasMathes_00031

Amount Added: 40.00

Units: uL

Report Date: 17-May-2020 08:59:48

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\003F0401.D

Injection Date: 16-May-2020 11:46:30

Instrument ID: VGC_J

Operator ID: MEIERG

Lims ID: IC L4

Worklist Smp#: 9

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

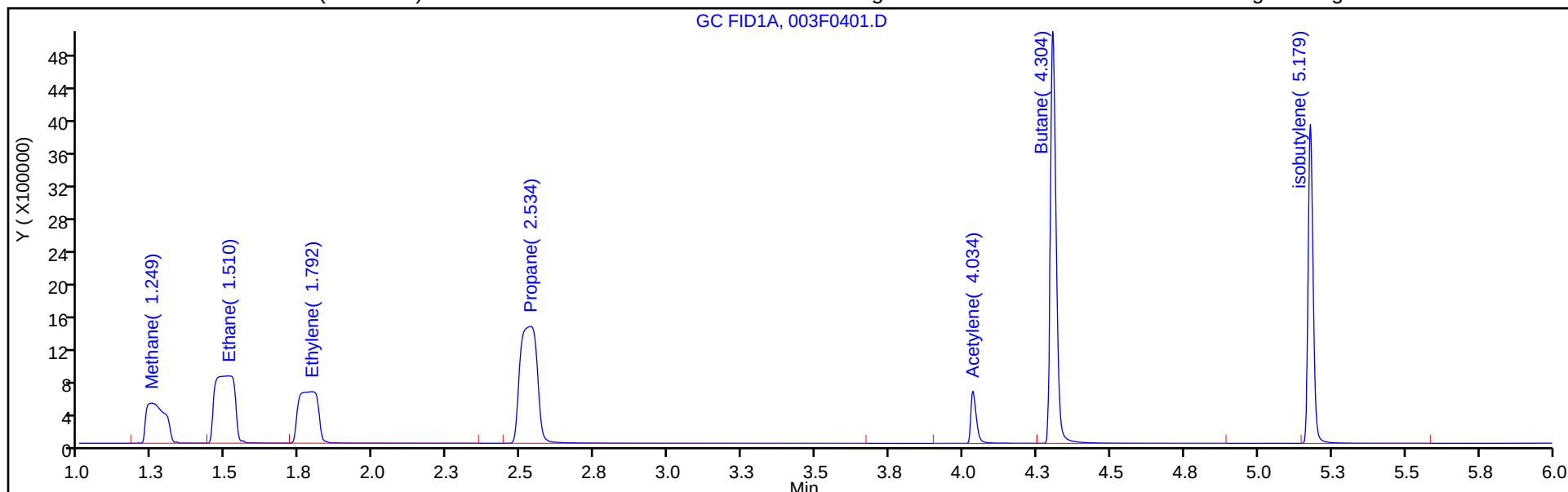
ALS Bottle#: 3

Method: RSK_J

Limit Group: GCV - RSK 175

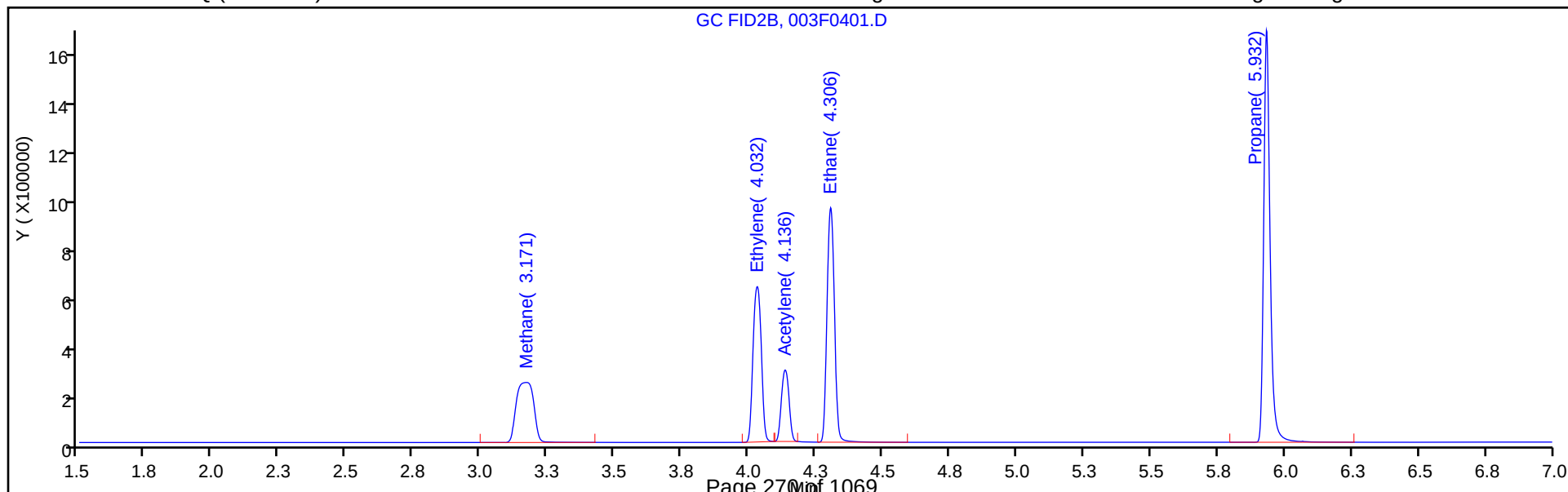
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\003F0401.D

Injection Date: 16-May-2020 11:46:30

Instrument ID: VGC_J

Lims ID: IC L4

Client ID:

Operator ID: MEIERG

ALS Bottle#:

3

Worklist Smp#: 9

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

Method: RSK_J

Limit Group: GCV - RSK 175

Column: HP-PLOT/Q (0.53 mm)

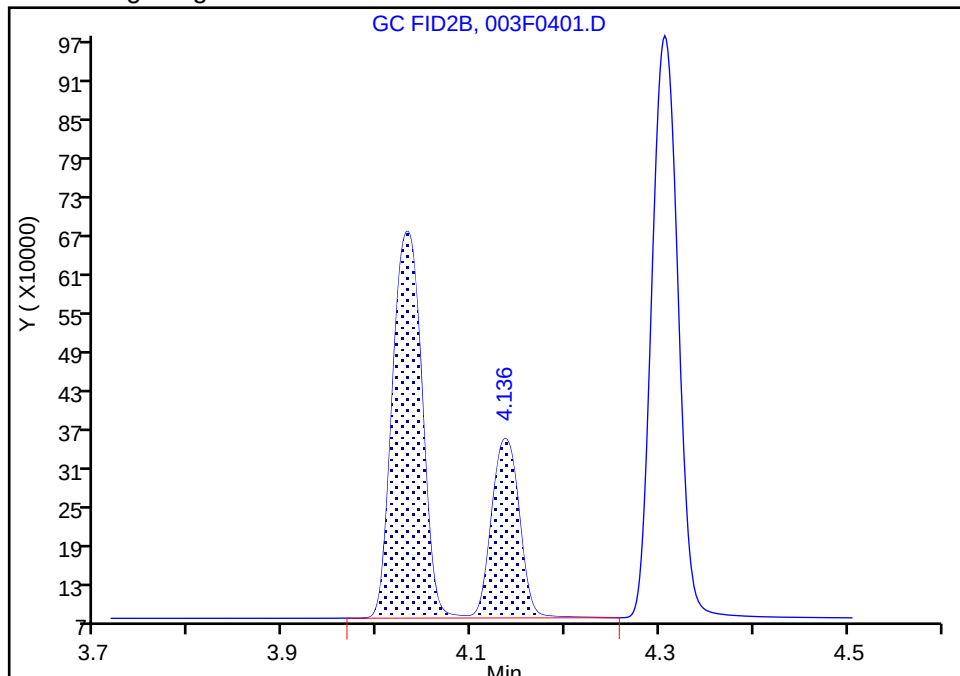
Detector: GC FID2B

6 Acetylene, CAS: 74-86-2

Signal: 2

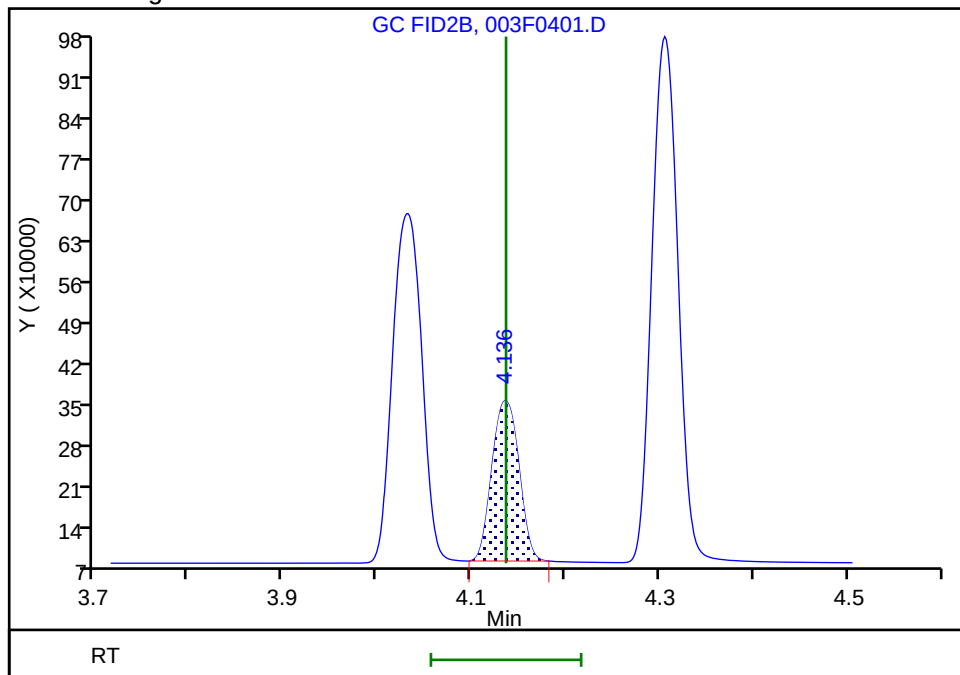
RT: 4.14
Area: 1861367
Amount: 51.616625
Amount Units: ug/l

Processing Integration Results



RT: 4.14
Area: 545422
Amount: 25.244597
Amount Units: ug/l

Manual Integration Results



Reviewer: meierg, 17-May-2020 06:46:16

Audit Action: Manually Integrated

Audit Reason: Shouldering

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\004F0501.D
 Lims ID: ICRT L5
 Client ID:
 Sample Type: ICRT Calib Level: 5
 Inject. Date: 16-May-2020 12:02:59 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: ICRT 5
 Operator ID: MEIERG Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 17-May-2020 08:59:48 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX0312

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.250	1.250	0.000	10173489	73.0	70.4	
2	3.172	3.172	0.000	4836394	73.0	70.4	
RPD = 0.05							

3 Ethane

1	1.511	1.511	0.000	18547040	136.9	136.3	
2	4.305	4.305	0.000	8282362	136.9	135.7	
RPD = 0.50							

4 Ethylene

1	1.793	1.793	0.000	14030935	127.7	127.3	M
2	4.032	4.032	0.000	6120221	127.7	127.7	M
RPD = 0.29							

5 Propane

1	2.528	2.528	0.000	28325635	200.7	197.7	
2	5.928	5.928	0.000	12604888	200.7	201.3	
RPD = 1.77							

6 Acetylene

1	4.015	4.015	0.000	3792795	118.5	110.6	Ma
2	4.137	4.137	0.000	2629705	118.5	121.7	M
RPD = 9.57							

7 Butane

1	4.286	4.286	0.000	34343170	264.5	260.4	Ma
2	7.375	7.375	0.000	16648646	264.5	261.1	M
RPD = 0.27							

8 isobutylene

1	5.163	5.163	0.000	23123734	255.4	259.0	
2	7.227	7.227	0.000	10785387	255.4	259.5	
RPD = 0.19							

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031

Amount Added: 200.00

Units: uL

Report Date: 17-May-2020 08:59:48

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\004F0501.D

Injection Date: 16-May-2020 12:02:59

Instrument ID: VGC_J

Operator ID: MEIERG

Lims ID: ICRT L5

Worklist Smp#: 10

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

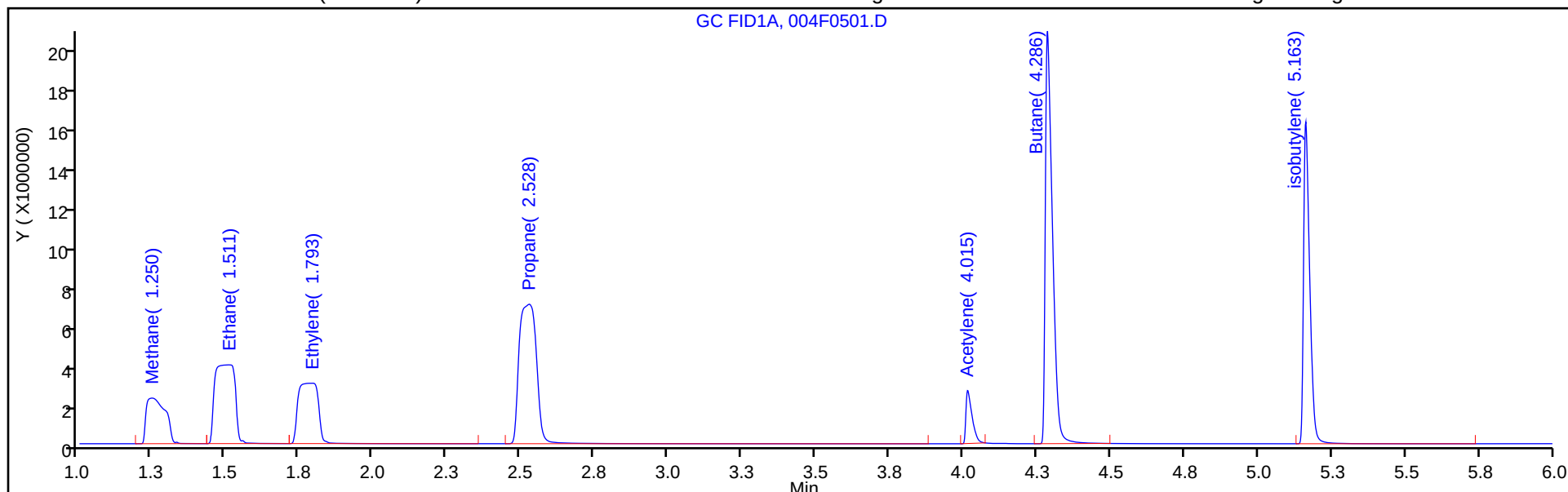
ALS Bottle#: 4

Method: RSK_J

Limit Group: GCV - RSK 175

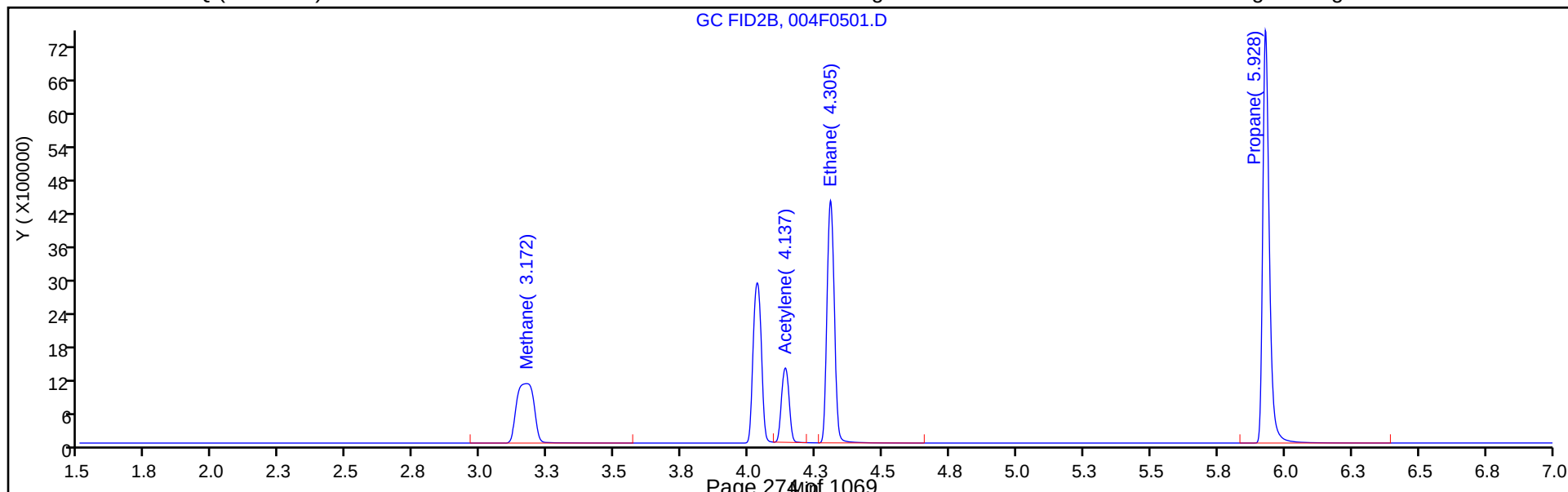
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

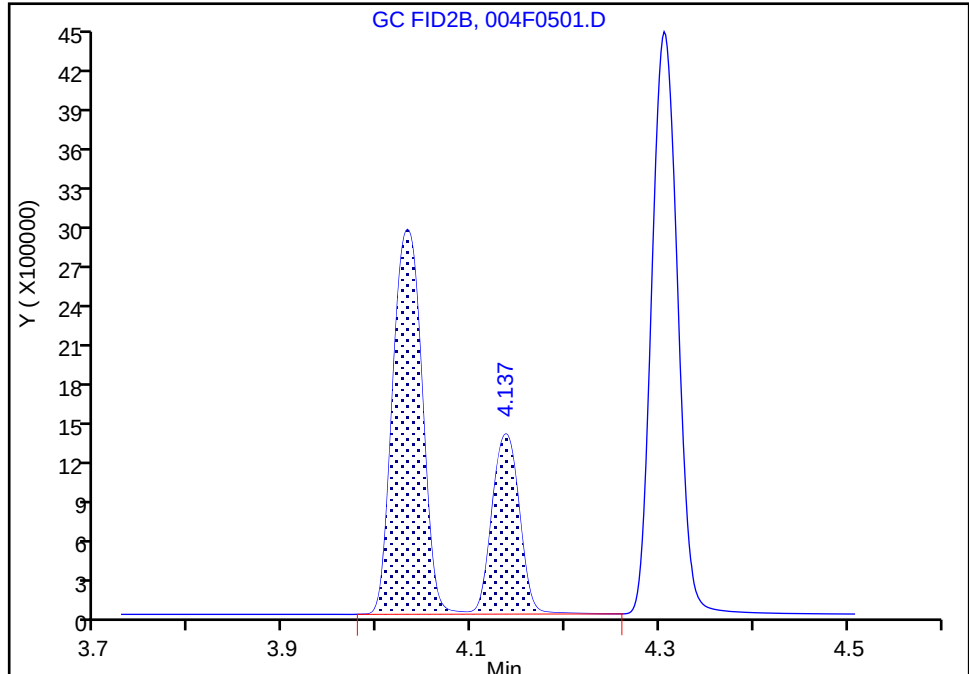
Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\004F0501.D
Injection Date: 16-May-2020 12:02:59 Instrument ID: VGC_J
Lims ID: ICRT L5
Client ID:
Operator ID: MEIERG ALS Bottle#: 4 Worklist Smp#: 10
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: HP-PLOT/Q (0.53 mm) Detector: GC FID2B

4 Ethylene, CAS: 74-85-1

Signal: 2

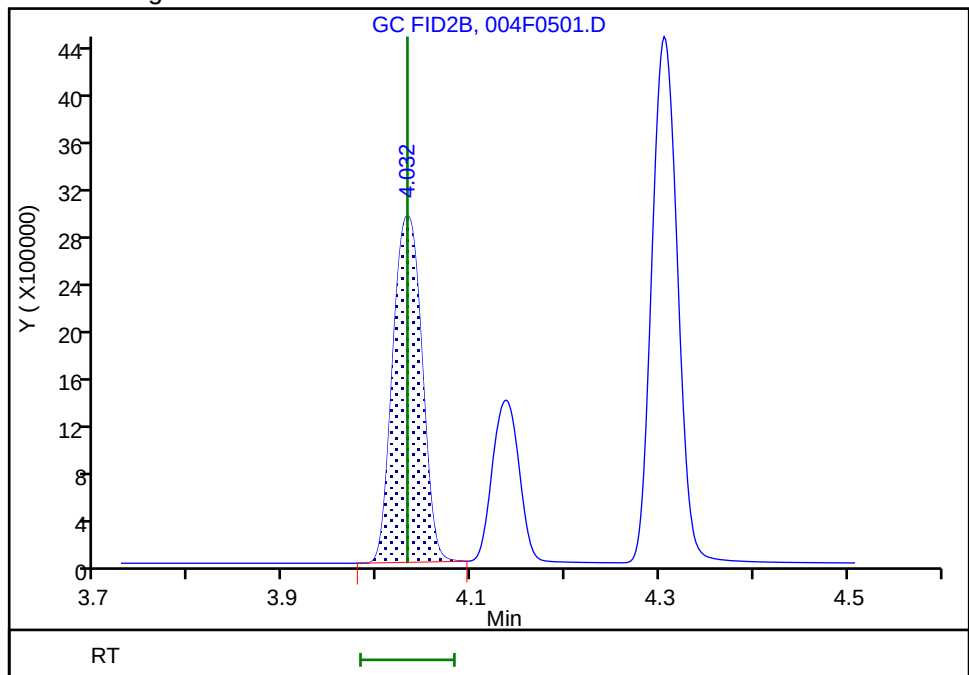
RT: 4.14
Area: 8876599
Amount: 170.8990
Amount Units: ug/l

Processing Integration Results



RT: 4.03
Area: 6120221
Amount: 127.6810
Amount Units: ug/l

Manual Integration Results



Reviewer: meierg, 17-May-2020 07:06:47
Audit Action: Manually Integrated

Audit Reason: Shouldering

Eurofins TestAmerica, Denver

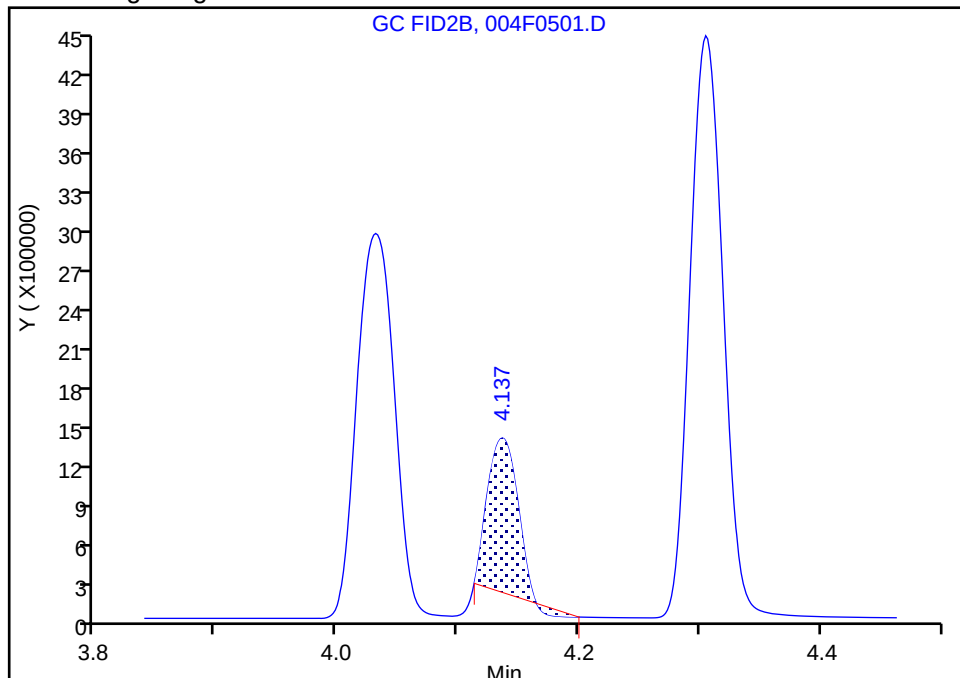
Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\004F0501.D
Injection Date: 16-May-2020 12:02:59 Instrument ID: VGC_J
Lims ID: ICRT L5
Client ID:
Operator ID: MEIERG ALS Bottle#: 4 Worklist Smp#: 10
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: HP-PLOT/Q (0.53 mm) Detector: GC FID2B

6 Acetylene, CAS: 74-86-2

Signal: 2

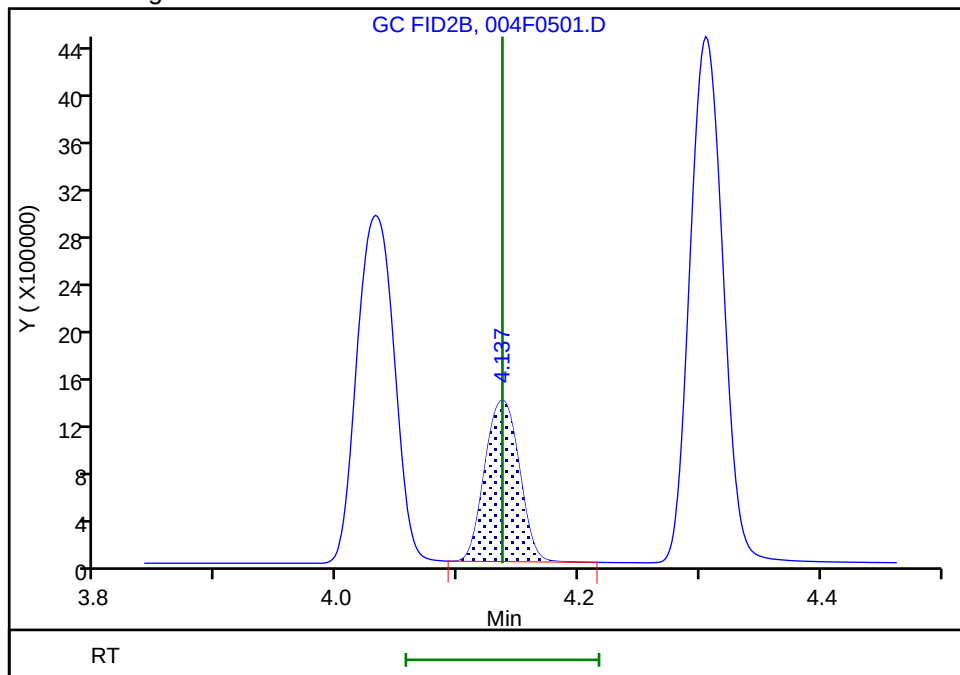
RT: 4.14
Area: 1926231
Amount: 70.054658
Amount Units: ug/l

Processing Integration Results



RT: 4.14
Area: 2629705
Amount: 121.7146
Amount Units: ug/l

Manual Integration Results



Reviewer: meierg, 17-May-2020 07:07:42
Audit Action: Manually Integrated

Audit Reason: Peak not integrated

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\005F0601.D
 Lims ID: IC L6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 16-May-2020 12:19:27 ALS Bottle#: 5 Worklist Smp#: 11
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: IC 6
 Operator ID: MEIERG Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 17-May-2020 08:59:49 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX0312

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.250	1.250	0.000	21349465	146.0	148.2	
2	3.172	3.172	0.000	10129316	146.0	147.7	
RPD = 0.31							

3 Ethane

1	1.512	1.511	0.001	38849075	273.7	285.6	
2	4.306	4.305	0.001	17331467	273.7	283.9	
RPD = 0.60							

4 Ethylene

1	1.785	1.793	-0.008	29199476	255.3	264.9	
2	4.032	4.032	0.000	12731776	255.3	265.6	
RPD = 0.26							

5 Propane

1	2.522	2.528	-0.006	59231481	401.4	413.5	
2	5.926	5.928	-0.002	26366224	401.4	421.0	
RPD = 1.80							

6 Acetylene

1	4.002	4.015	-0.013	8293493	237.0	241.8	M
2	4.137	4.137	0.000	5438964	237.0	251.7	M
RPD = 4.01							

7 Butane

1	4.270	4.286	-0.016	71750490	529.0	543.6	
2	7.369	7.375	-0.006	34602301	529.0	542.3	
RPD = 0.25							

8 isobutylene

1	5.150	5.163	-0.013	47351348	510.8	530.4	M
2	7.222	7.227	-0.005	22287396	510.8	536.3	a
RPD = 1.10							

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031

Amount Added: 400.00

Units: uL

Report Date: 17-May-2020 08:59:49

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\005F0601.D

Injection Date: 16-May-2020 12:19:27

Instrument ID: VGC_J

Operator ID: MEIERG

Lims ID: IC L6

Worklist Smp#: 11

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

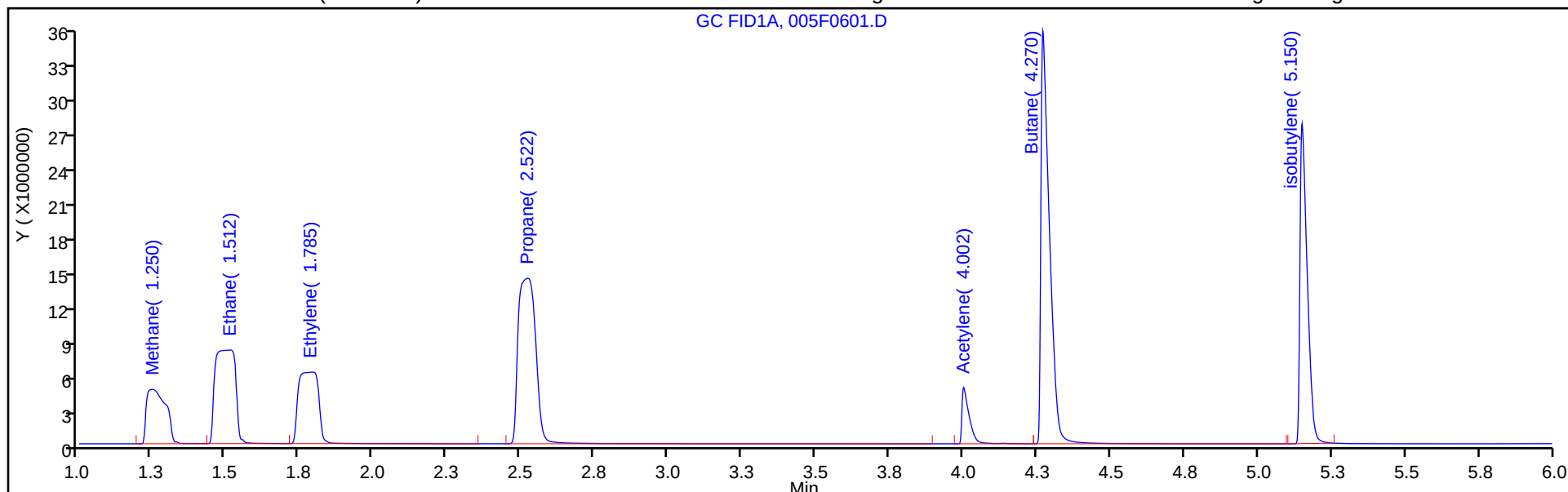
ALS Bottle#: 5

Method: RSK_J

Limit Group: GCV - RSK 175

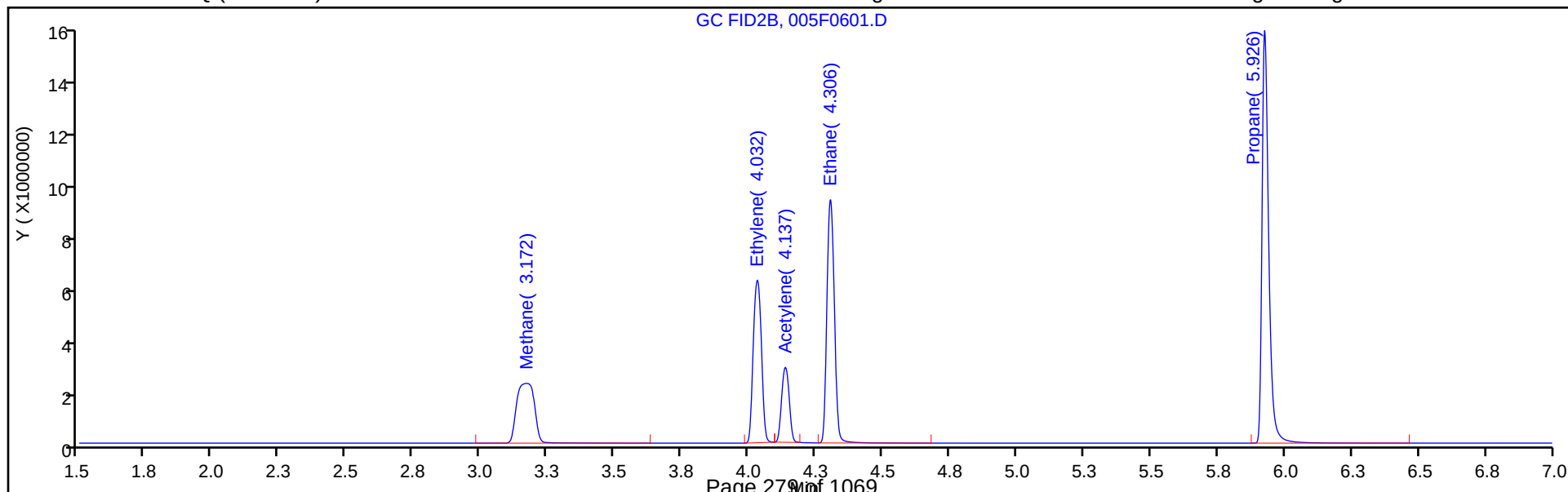
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

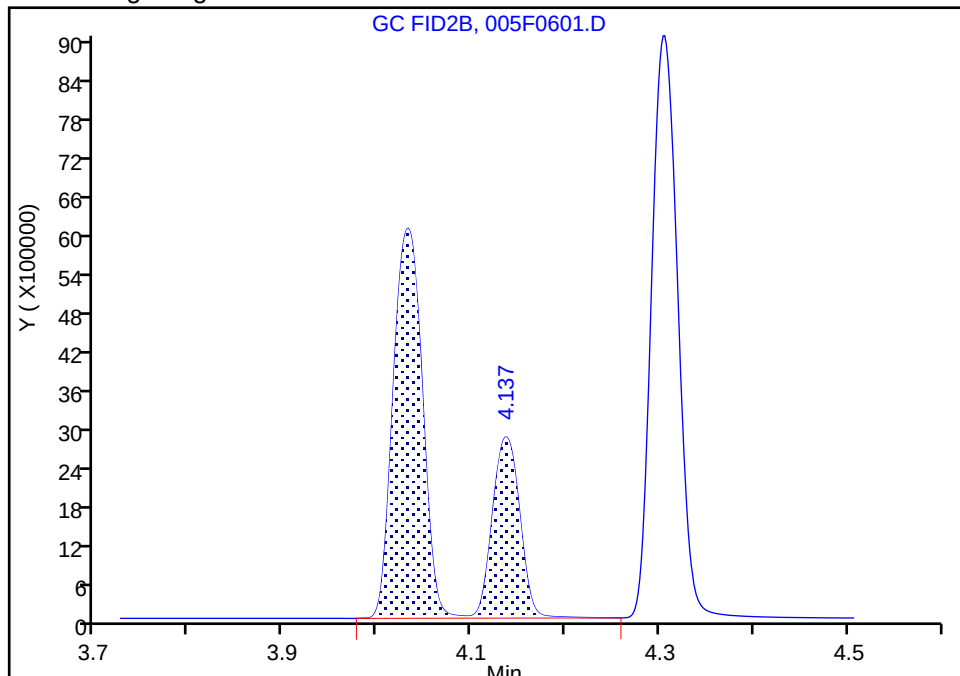
Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\005F0601.D
Injection Date: 16-May-2020 12:19:27 Instrument ID: VGC_J
Lims ID: IC L6
Client ID:
Operator ID: MEIERG ALS Bottle#: 5 Worklist Smp#: 11
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: HP-PLOT/Q (0.53 mm) Detector: GC FID2B

6 Acetylene, CAS: 74-86-2

Signal: 2

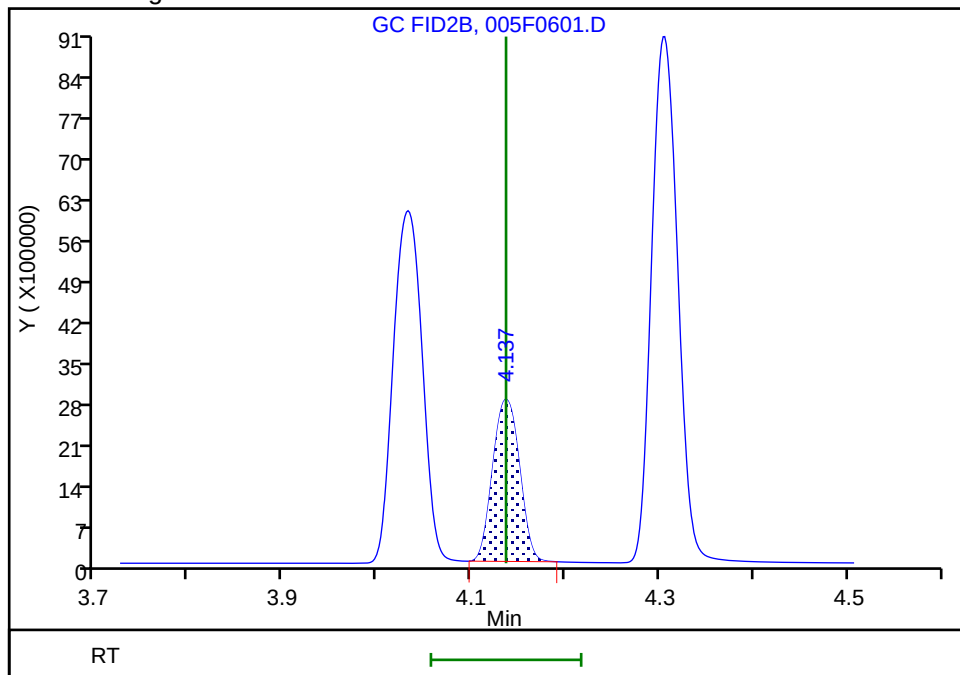
RT: 4.14
Area: 18449274
Amount: 510.5285
Amount Units: ug/l

Processing Integration Results



RT: 4.14
Area: 5438964
Amount: 251.7399
Amount Units: ug/l

Manual Integration Results



Reviewer: meierg, 17-May-2020 07:09:29

Audit Action: Manually Integrated

Audit Reason: Shouldering

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\006F0701.D
 Lims ID: IC L7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 16-May-2020 12:35:56 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: IC 7
 Operator ID: MEIERG Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 17-May-2020 08:59:49 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX0312

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	--------------	------------------	------------------	----------	-----------------	-------------------	-------

2 Methane

1	1.243	1.250	-0.007	40706597	292.0	282.9	
2	3.168	3.172	-0.004	19242711	292.0	280.9	
RPD = 0.71							

3 Ethane

1	1.508	1.511	-0.003	74364849	547.4	546.6	
2	4.302	4.305	-0.003	33180606	547.4	543.4	
RPD = 0.58							

4 Ethylene

1	1.785	1.793	-0.008	55873290	510.7	507.0	
2	4.028	4.032	-0.004	24365732	510.7	508.3	
RPD = 0.27							

5 Propane

1	2.510	2.528	-0.018	113846992	802.8	794.7	
2	5.920	5.928	-0.008	50751227	802.8	810.3	
RPD = 1.94							

6 Acetylene

1	3.983	4.015	-0.032	15971476	474.1	465.7	M
2	4.135	4.137	-0.002	10316086	474.1	477.5	M
RPD = 2.49							

7 Butane

1	4.250	4.286	-0.036	137944774	1058.1	1044.9	
2	7.362	7.375	-0.013	67311032	1058.1	1054.6	
RPD = 0.92							

8 isobutylene

1	5.133	5.163	-0.030	92637372	1021.5	1037.7	
2	7.217	7.227	-0.010	43289193	1021.5	1041.6	
RPD = 0.38							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

RSK7gasMathes_00031

Amount Added: 800.00

Units: uL

Report Date: 17-May-2020 08:59:49

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\006F0701.D

Injection Date: 16-May-2020 12:35:56

Instrument ID: VGC_J

Operator ID: MEIERG

Lims ID: IC L7

Worklist Smp#: 12

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

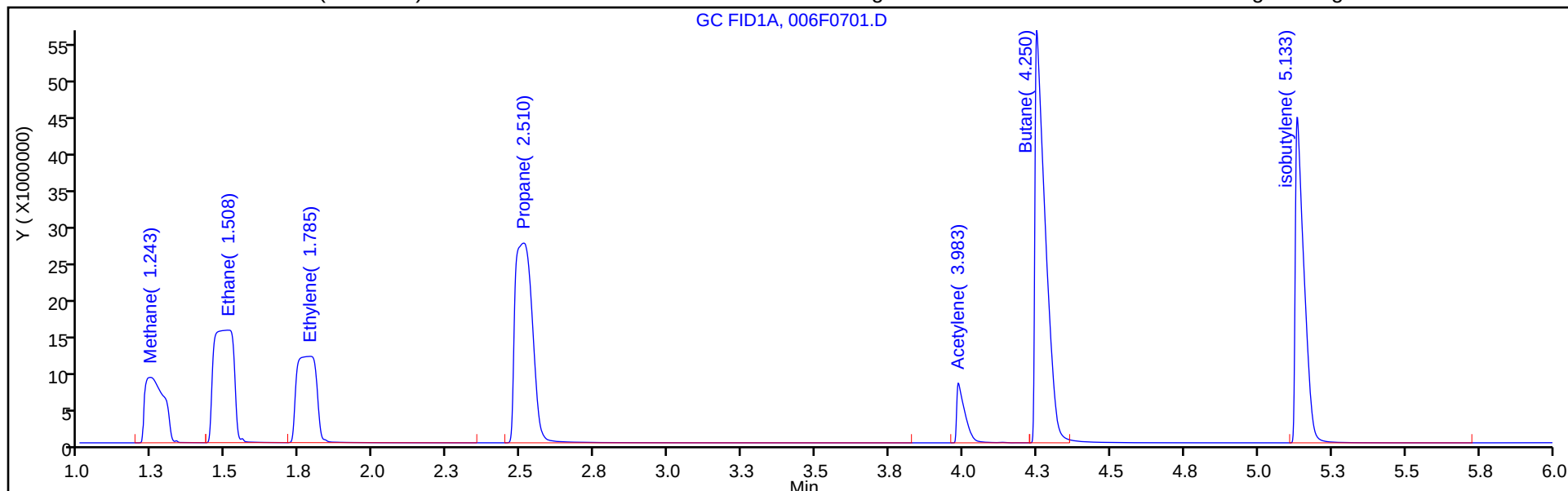
ALS Bottle#: 6

Method: RSK_J

Limit Group: GCV - RSK 175

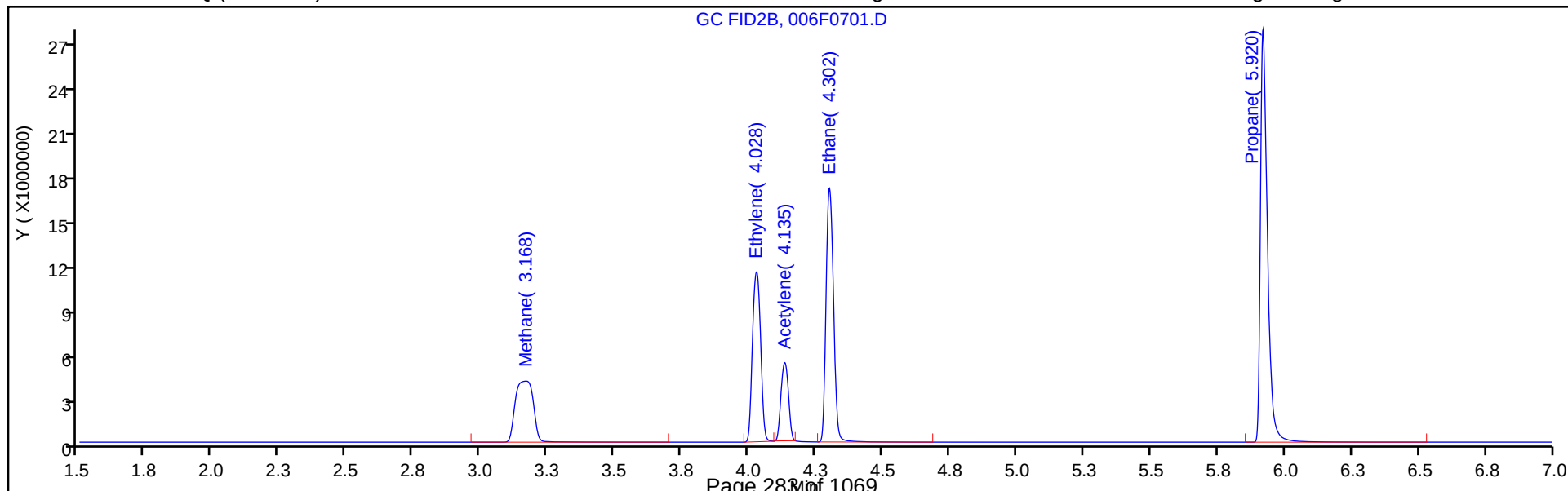
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

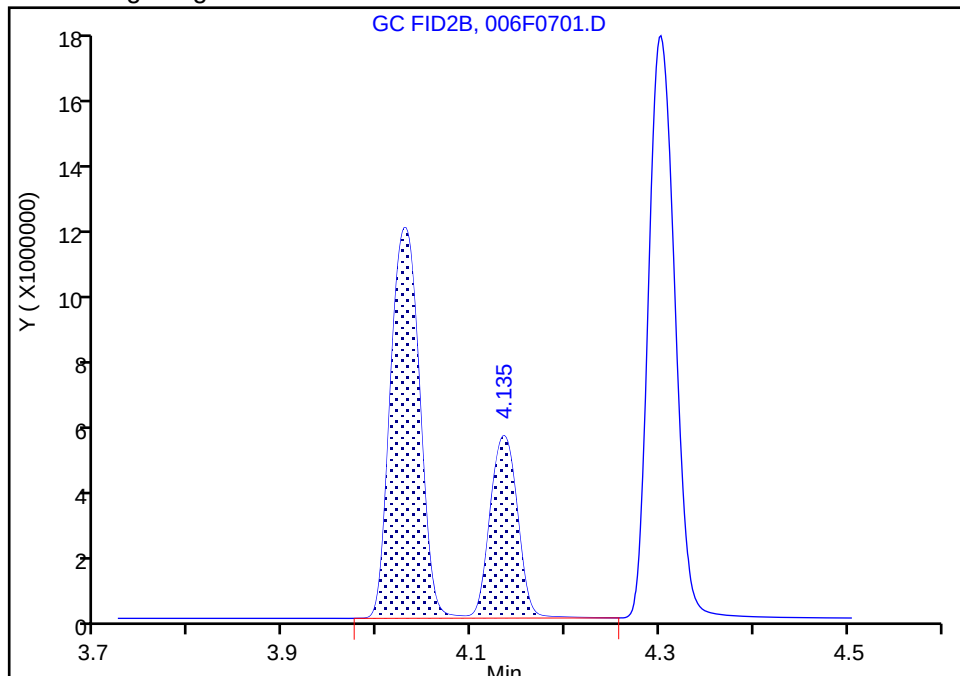
Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\006F0701.D
Injection Date: 16-May-2020 12:35:56 Instrument ID: VGC_J
Lims ID: IC L7
Client ID:
Operator ID: MEIERG ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: HP-PLOT/Q (0.53 mm) Detector: GC FID2B

6 Acetylene, CAS: 74-86-2

Signal: 2

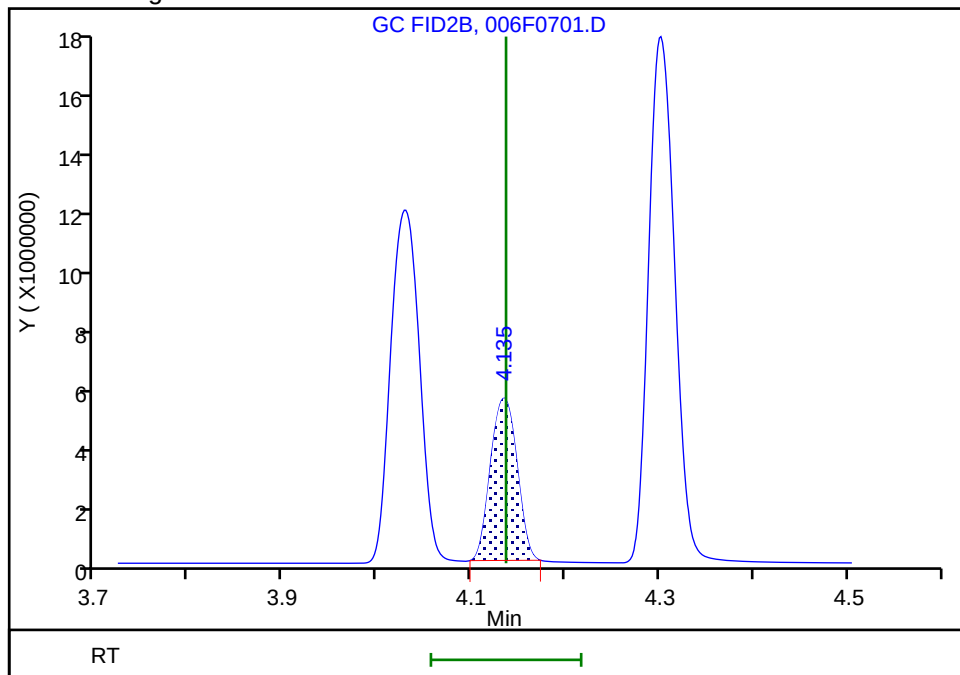
RT: 4.13
Area: 35374141
Amount: 990.6352
Amount Units: ug/l

Processing Integration Results



RT: 4.13
Area: 10316086
Amount: 477.4751
Amount Units: ug/l

Manual Integration Results



Reviewer: meierg, 17-May-2020 07:16:23

Audit Action: Manually Integrated

Audit Reason: Shouldering

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\007F0801.D
 Lims ID: IC L8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 16-May-2020 12:52:27 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: IC 8
 Operator ID: MEIERG Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 17-May-2020 08:59:50 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX0312

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.248	1.250	-0.002	256592942	1806.9	1784.9
2	3.168	3.172	-0.004	121745624	1806.9	1778.4

RPD = 0.36

Reagents:

RSK175methane_00010 Amount Added: 50.00 Units: uL

Report Date: 17-May-2020 08:59:50

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\007F0801.D

Injection Date: 16-May-2020 12:52:27

Instrument ID: VGC_J

Operator ID: MEIERG

Lims ID: IC L8

Worklist Smp#: 13

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

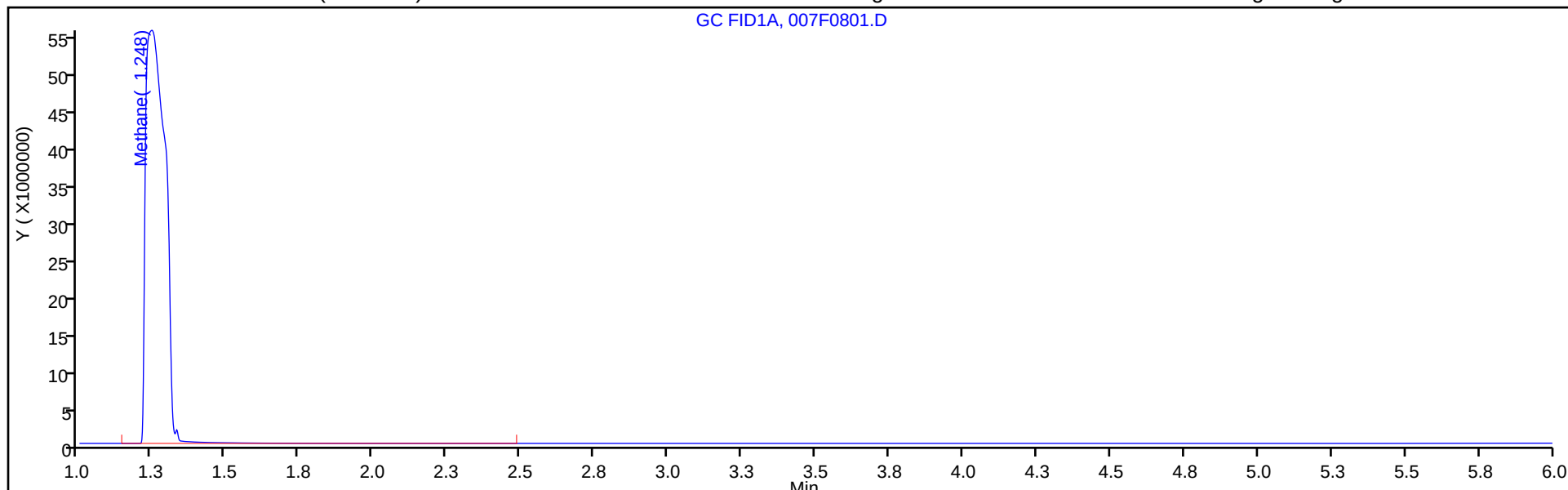
ALS Bottle#: 7

Method: RSK_J

Limit Group: GCV - RSK 175

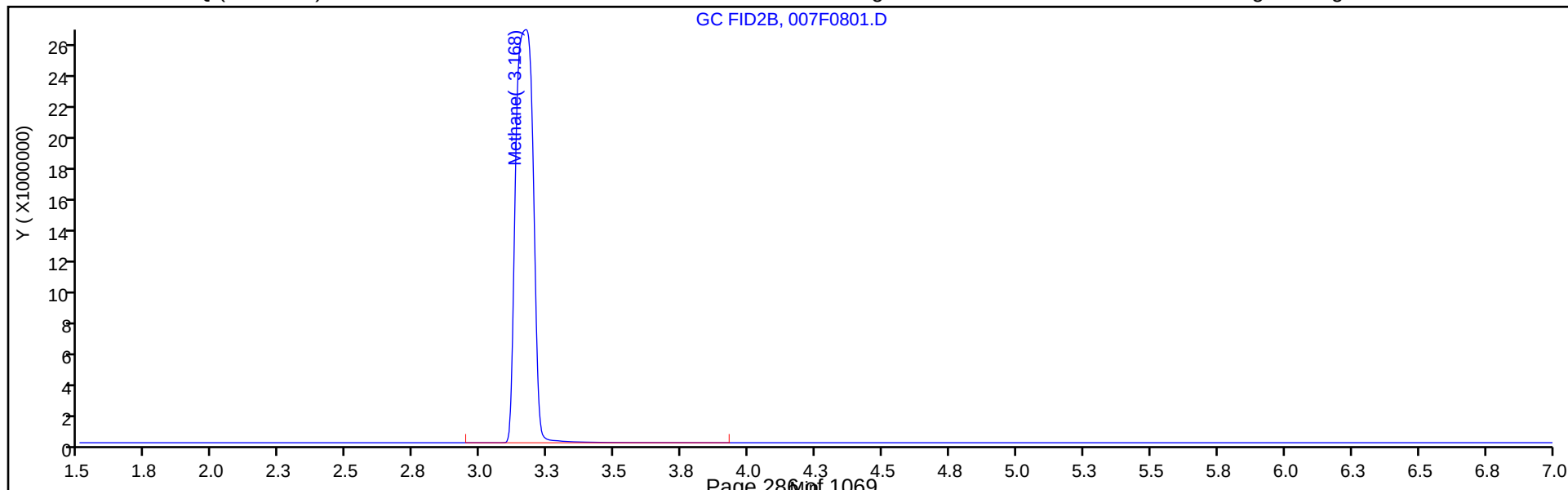
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Lims ID: IC L9
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 16-May-2020 13:08:56 ALS Bottle#: 9 Worklist Smp#: 14
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: IC 9
 Operator ID: MEIERG Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 17-May-2020 08:59:50 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX0312

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.245	1.250	-0.005	1008615918	7227.8	7016.9	
2	3.160	3.172	-0.012	484781088	7227.8	7082.2	

RPD = 0.93

Reagents:

RSK175methane_00010 Amount Added: 200.00 Units: uL

Report Date: 17-May-2020 08:59:50

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D

Injection Date: 16-May-2020 13:08:56

Instrument ID: VGC_J

Operator ID: MEIERG

Lims ID: IC L9

Worklist Smp#: 14

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

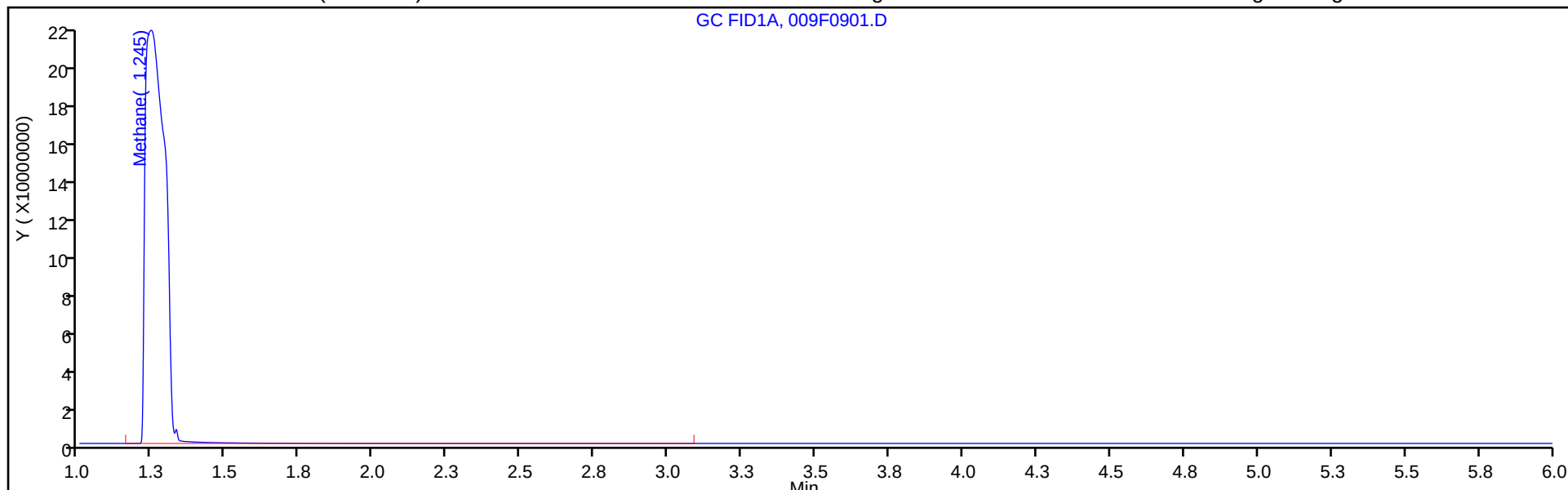
ALS Bottle#: 9

Method: RSK_J

Limit Group: GCV - RSK 175

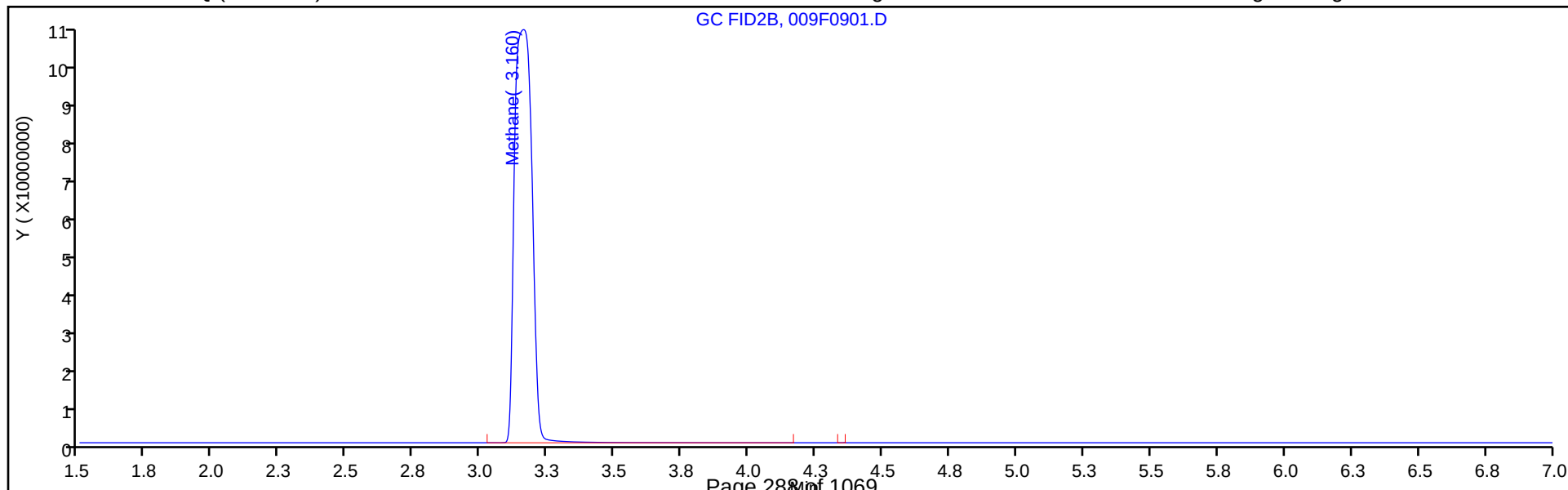
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: ICV 280-495152/16 Calibration Date: 05/16/2020 13:25
 Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
 GC Column: Rt-Alumina KCl ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
 Lab File ID: 010F1001.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin2		158281		80.1	73.0	9.7	20.0
Ethane	Ave	136043	153595		155	137	12.9	20.0
Ethylene	Ave	110213	122313		142	128	11.0	20.0
Acetylene	Ave	34294	36540		126	119	6.5	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: ICV 280-495152/16 Calibration Date: 05/16/2020 13:25
Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
GC Column: Rt-Alumina KCl ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
Lab File ID: 010F1001.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.25	1.21	1.29
Ethane	1.51	1.46	1.56
Ethylene	1.79	1.74	1.84
Acetylene	4.01	3.94	4.10

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\010F1001.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-May-2020 13:25:26 ALS Bottle#: 10 Worklist Smp#: 16
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: ICV
 Operator ID: MEIERG Instrument ID: VGC_J
 Sublist:

Method: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 17-May-2020 09:03:52 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX0312

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.249	1.250	-0.001	11555066	73.0	80.1	
2	3.171	3.172	-0.001	5497214	73.0	80.1	

RPD = 0.01

3 Ethane

1	1.513	1.511	0.002	21020301	136.9	154.5	
2	4.305	4.305	0.000	9395211	136.9	153.9	

RPD = 0.41

4 Ethylene

1	1.791	1.793	-0.002	15615273	127.7	141.7	
2	4.031	4.032	-0.001	6823571	127.7	142.4	

RPD = 0.47

5 Propane

1	2.524	2.528	-0.004	32214966	200.7	224.9	
2	5.930	5.928	0.002	14336595	200.7	228.9	

RPD = 1.77

6 Acetylene

1	4.008	4.015	-0.007	4330795	118.5	126.3	M
2	4.136	4.137	-0.001	2842552	118.5	131.6	M

RPD = 4.10

7 Butane

1	4.279	4.286	-0.007	38944801	264.5	295.2	Ma
2	7.373	7.375	-0.002	18966689	264.5	297.4	a

RPD = 0.73

8 isobutylene

1	5.156	5.163	-0.007	25717354	255.4	288.1	
2	7.226	7.227	-0.001	12003603	255.4	288.8	

RPD = 0.26

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00027

Amount Added: 200.00

Units: uL

Report Date: 17-May-2020 09:03:52

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\010F1001.D

Injection Date: 16-May-2020 13:25:26

Instrument ID: VGC_J

Operator ID: MEIERG

Lims ID: ICV

Worklist Smp#: 16

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

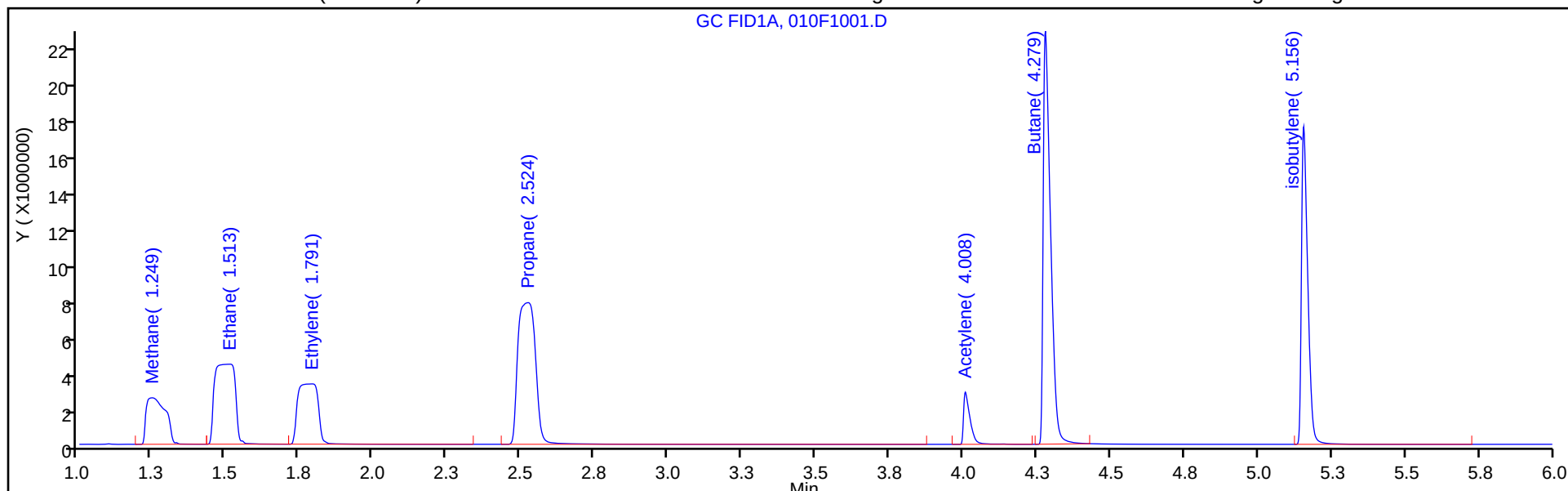
ALS Bottle#: 10

Method: RSK_J

Limit Group: GCV - RSK 175

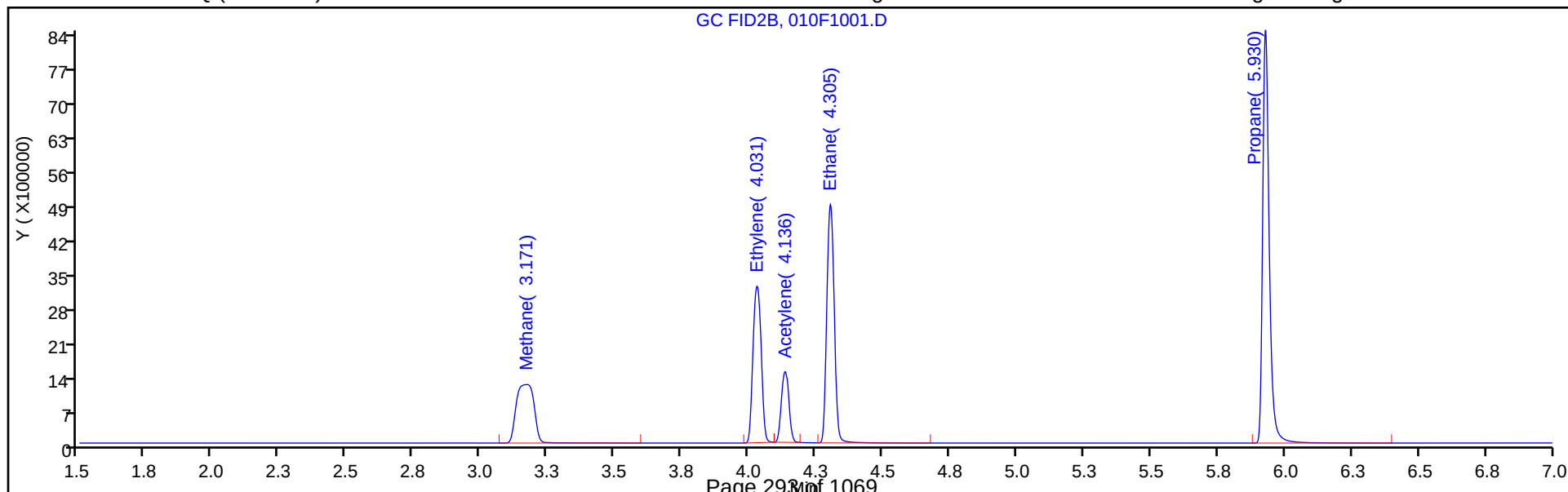
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: ICV 280-495152/16 Calibration Date: 05/16/2020 13:25
Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
GC Column: HP-Plot Q ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
Lab File ID: 010F1001.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin2		75301		80.1	73.0	9.7	20.0
Ethylene	Ave	47934	53448		142	128	11.5	20.0
Acetylene	Ave	21605	23983		132	119	11.0	20.0
Ethane	Ave	61056	68651		154	137	12.4	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: ICV 280-495152/16 Calibration Date: 05/16/2020 13:25
Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
GC Column: HP-Plot Q ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
Lab File ID: 010F1001.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	3.17	3.13	3.21
Ethylene	4.03	3.98	4.08
Acetylene	4.14	4.06	4.22
Ethane	4.31	4.26	4.36

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\010F1001.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-May-2020 13:25:26 ALS Bottle#: 10 Worklist Smp#: 16
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: ICV
 Operator ID: MEIERG Instrument ID: VGC_J
 Sublist:

Method: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 17-May-2020 09:03:52 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX0312

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	--------------	------------------	------------------	----------	-----------------	-------------------	-------

2 Methane

1	1.249	1.250	-0.001	11555066	73.0	80.1	
2	3.171	3.172	-0.001	5497214	73.0	80.1	

RPD = 0.01

3 Ethane

1	1.513	1.511	0.002	21020301	136.9	154.5	
2	4.305	4.305	0.000	9395211	136.9	153.9	

RPD = 0.41

4 Ethylene

1	1.791	1.793	-0.002	15615273	127.7	141.7	
2	4.031	4.032	-0.001	6823571	127.7	142.4	

RPD = 0.47

5 Propane

1	2.524	2.528	-0.004	32214966	200.7	224.9	
2	5.930	5.928	0.002	14336595	200.7	228.9	

RPD = 1.77

6 Acetylene

1	4.008	4.015	-0.007	4330795	118.5	126.3	M
2	4.136	4.137	-0.001	2842552	118.5	131.6	M

RPD = 4.10

7 Butane

1	4.279	4.286	-0.007	38944801	264.5	295.2	Ma
2	7.373	7.375	-0.002	18966689	264.5	297.4	a

RPD = 0.73

8 isobutylene

1	5.156	5.163	-0.007	25717354	255.4	288.1	
2	7.226	7.227	-0.001	12003603	255.4	288.8	

RPD = 0.26

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00027

Amount Added: 200.00

Units: uL

Report Date: 17-May-2020 09:03:52

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\010F1001.D

Injection Date: 16-May-2020 13:25:26

Instrument ID: VGC_J

Operator ID: MEIERG

Lims ID: ICV

Worklist Smp#: 16

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

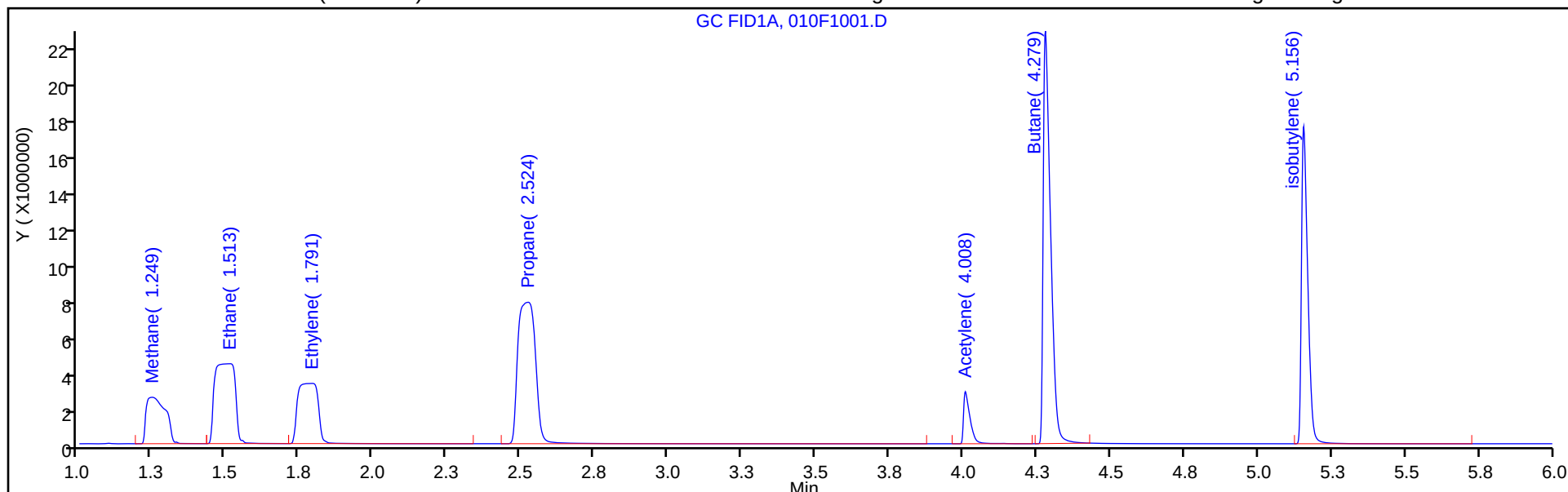
ALS Bottle#: 10

Method: RSK_J

Limit Group: GCV - RSK 175

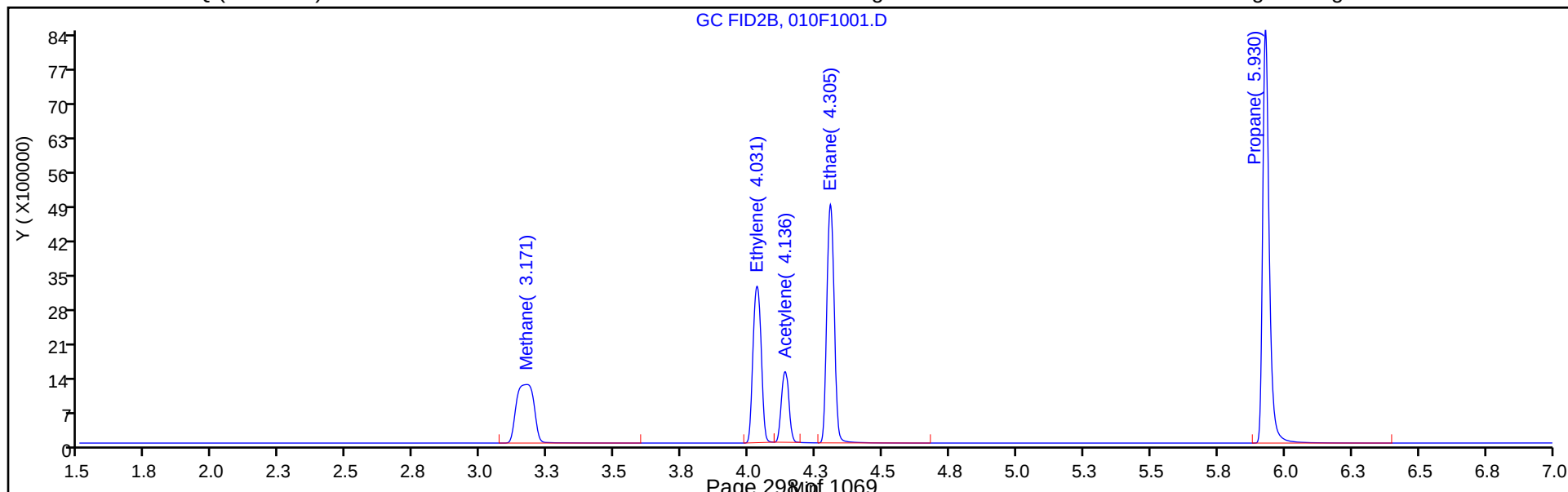
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\010F1001.D

Injection Date: 16-May-2020 13:25:26

Instrument ID: VGC_J

Lims ID: ICV

Client ID:

Operator ID: MEIERG

ALS Bottle#: 10

Worklist Smp#: 16

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

Method: RSK_J

Limit Group: GCV - RSK 175

Column: HP-PLOT/Q (0.53 mm)

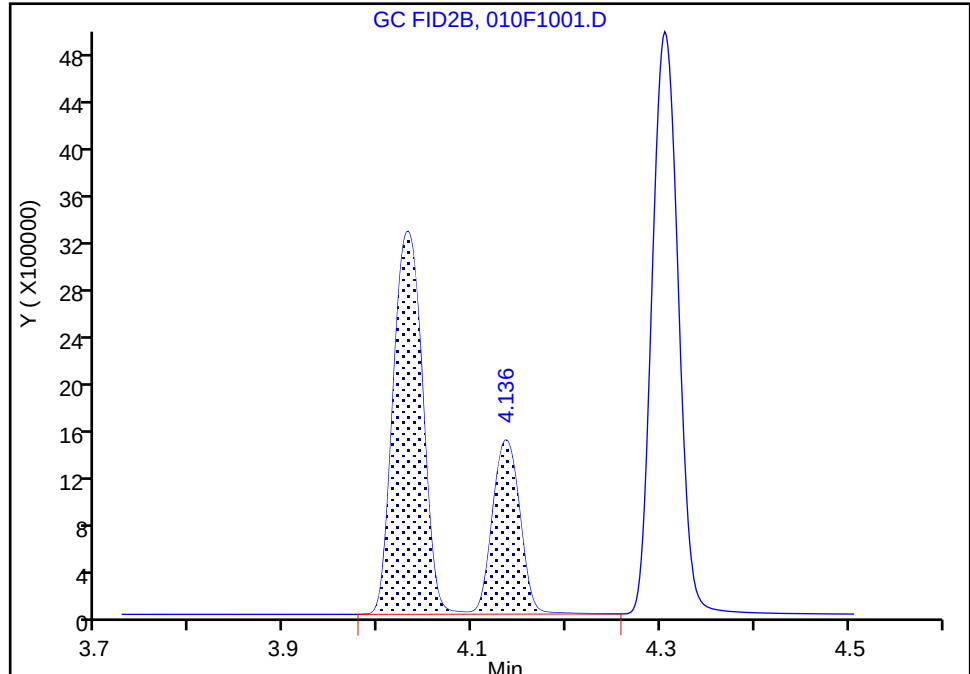
Detector: GC FID2B

6 Acetylene, CAS: 74-86-2

Signal: 2

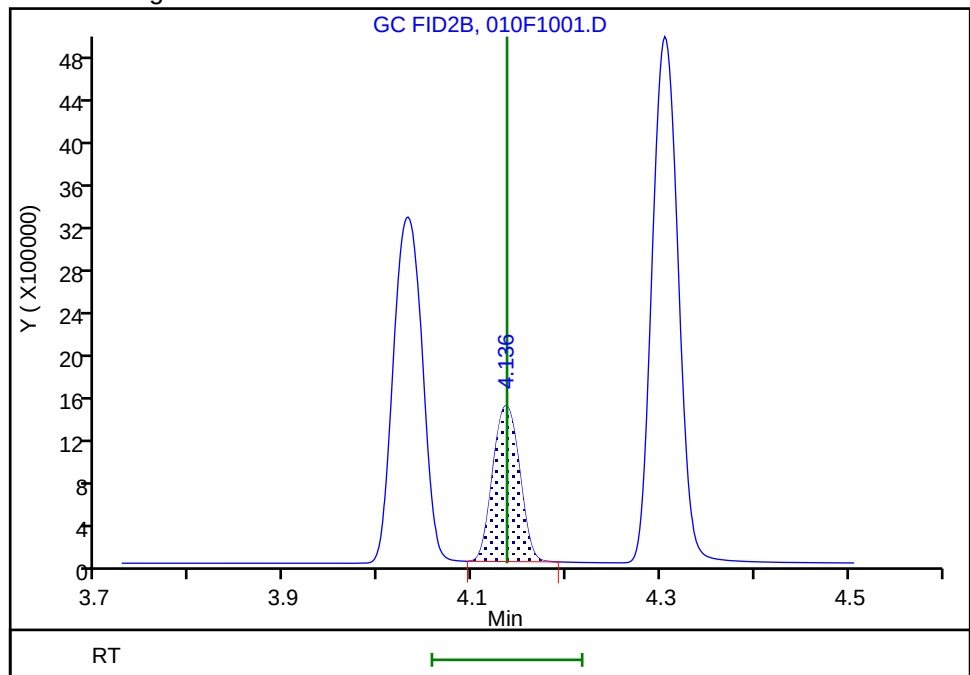
RT: 4.14
Area: 9809067
Amount: 454.0080
Amount Units: ug/l

Processing Integration Results



RT: 4.14
Area: 2842552
Amount: 131.5662
Amount Units: ug/l

Manual Integration Results



Reviewer: meierg, 17-May-2020 07:28:53

Audit Action: Manually Integrated

Audit Reason: Shouldering

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCVRT 280-496925/4 Calibration Date: 06/01/2020 13:13
 Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
 GC Column: Rt-Alumina KCl ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
 Lab File ID: A004F0401.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin2		161087		81.5	73.0	11.6	20.0
Ethane	Ave	136043	162540		164	137	19.5	20.0
Ethylene	Ave	110213	154914		179	128	40.6*	20.0
Acetylene	Ave	34294	58613		203	119	70.9*	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCVRT 280-496925/4 Calibration Date: 06/01/2020 13:13
Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
GC Column: Rt-Alumina KCl ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
Lab File ID: A004F0401.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.25	1.21	1.29
Ethane	1.50	1.45	1.55
Ethylene	1.76	1.71	1.81
Acetylene	3.87	3.79	3.95

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\A004F0401.D
 Lims ID: ccvrt
 Client ID:
 Sample Type: CCVRT
 Inject. Date: 01-Jun-2020 13:13:44 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 02-Jun-2020 08:27:32 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1037

First Level Reviewer: sciannac

Date: 01-Jun-2020 13:31:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	--------------	------------------	------------------	----------	-----------------	-------------------	-------

2 Methane

1	1.253	1.253	0.000	11759873	73.0	81.5	
2	3.170	3.170	0.000	5615905	73.0	81.8	
RPD = 0.39							

3 Ethane

1	1.503	1.503	0.000	22244500	136.9	163.5	Ma
2	4.302	4.302	0.000	9974077	136.9	163.4	a
RPD = 0.09							

4 Ethylene

1	1.758	1.758	0.000	19777364	127.7	179.4	Ma
2	4.028	4.028	0.000	8742034	127.7	182.4	M
RPD = 1.62							

5 Propane

1	2.423	2.423	0.000	33032790	200.7	230.6	
2	5.923	5.923	0.000	14762047	200.7	235.7	
RPD = 2.19							

6 Acetylene

1	3.865	3.865	0.000	6946965	118.5	202.6	a
2	4.133	4.133	0.000	4652968	118.5	215.4	M
RPD = 6.12							

7 Butane

1	4.166	4.166	0.000	39410804	264.5	298.8	
2	7.367	7.367	0.000	19182054	264.5	300.8	
RPD = 0.67							

8 isobutylene

1	5.065	5.065	0.000	34371587	255.4	385.0	
2	7.218	7.218	0.000	16078086	255.4	386.9	
RPD = 0.48							

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031

Amount Added: 200.00

Units: uL

Report Date: 02-Jun-2020 08:27:32

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\A004F0401.D

Injection Date: 01-Jun-2020 13:13:44

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: ccvrt

Worklist Smp#: 4

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

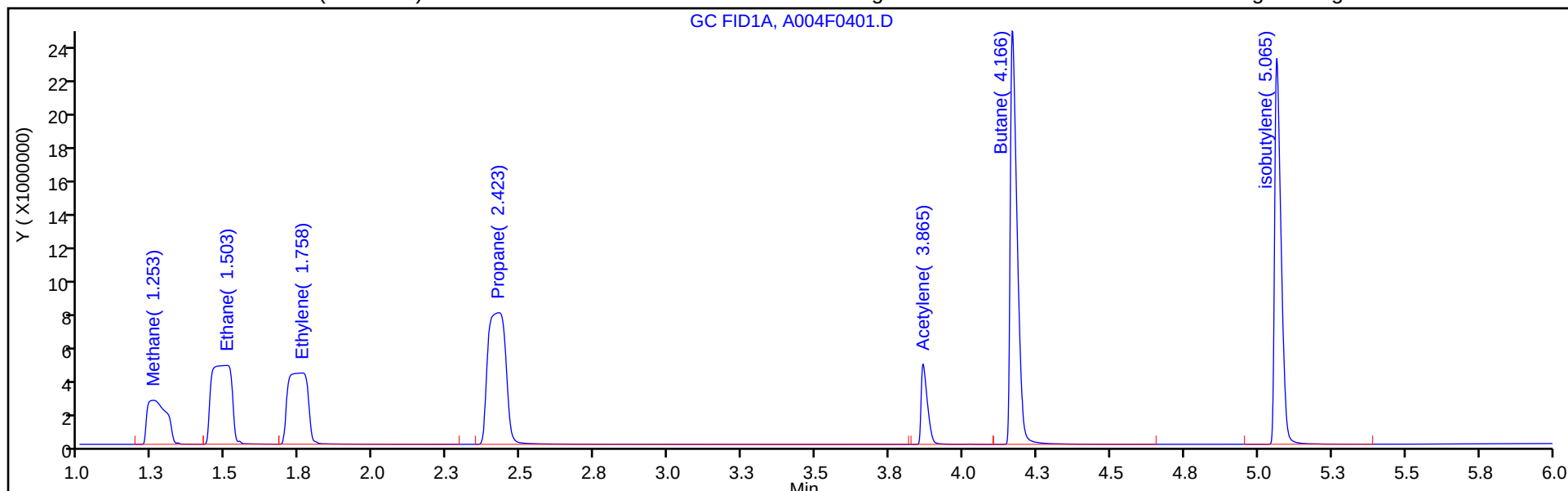
ALS Bottle#: 4

Method: RSK_J

Limit Group: GCV - RSK 175

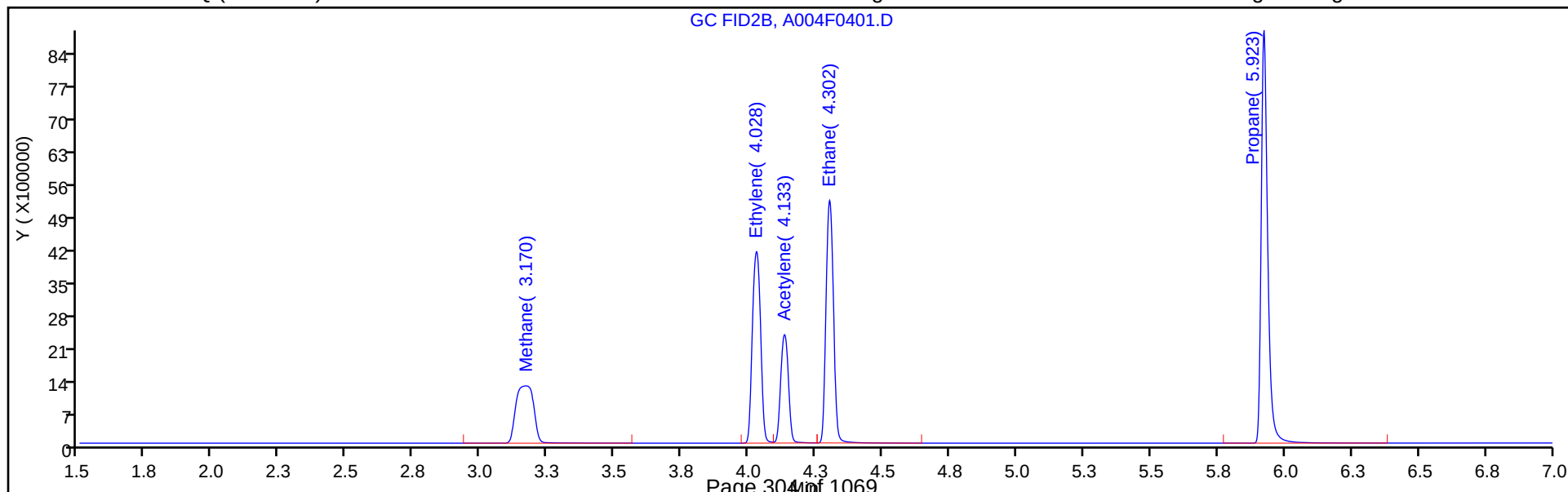
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\A004F0401.D

Injection Date: 01-Jun-2020 13:13:44

Instrument ID: VGC_J

Lims ID: ccvrt

Client ID:

Operator ID: SCIANNAC

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 18.000 mL

Dil. Factor:

1.0000

Method: RSK_J

Limit Group:

GCV - RSK 175

Column: Rt-Alumina BOND/KCl (0.53 mm)

Detector

GC FID1A

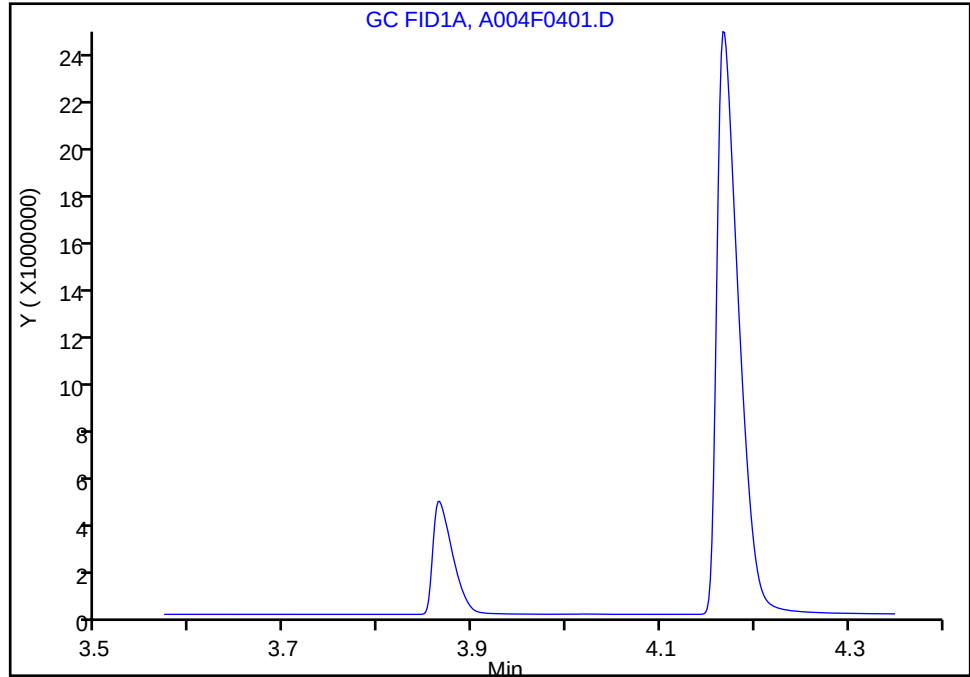
6 Acetylene, CAS: 74-86-2

Signal: 1

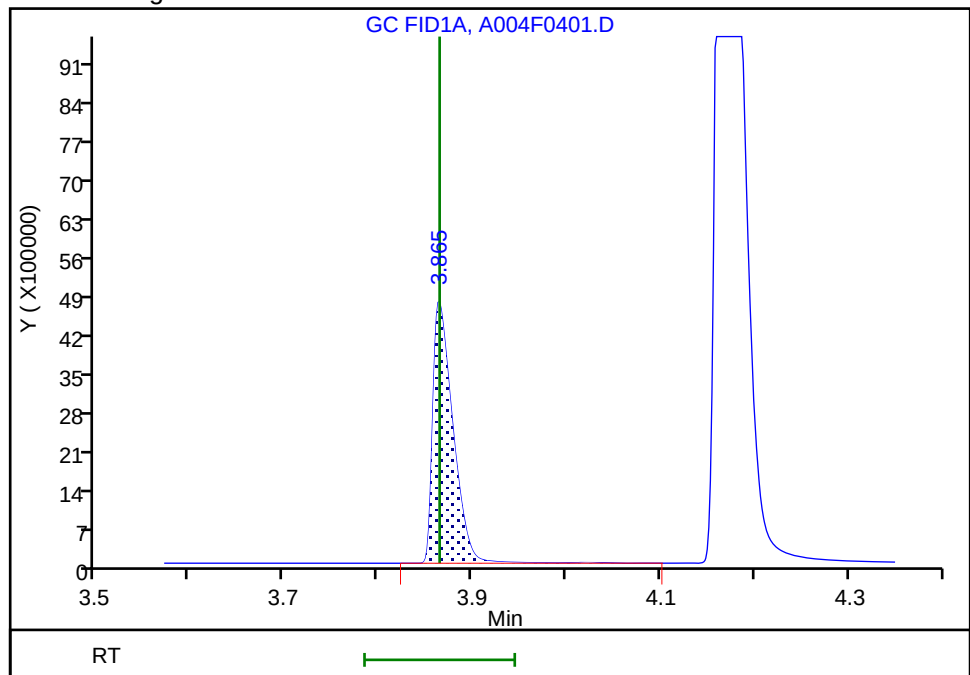
Not Detected

Expected RT: 3.86

Processing Integration Results



Manual Integration Results



RT: 3.86

Area: 6946965

Amount: 202.5693

Amount Units: ug/l

Reviewer: sciannac, 01-Jun-2020 13:29:14

Audit Action: Assigned Compound ID

Audit Reason: Wrong Peak

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCVRT 280-496925/4 Calibration Date: 06/01/2020 13:13
 Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
 GC Column: HP-Plot Q ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
 Lab File ID: A004F0401.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin2		76927		81.8	73.0	12.0	20.0
Ethylene	Ave	47934	68475		182	128	42.9*	20.0
Acetylene	Ave	21605	39258		215	119	81.7*	20.0
Ethane	Ave	61056	72880		163	137	19.4	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCVRT 280-496925/4 Calibration Date: 06/01/2020 13:13
Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
GC Column: HP-Plot Q ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
Lab File ID: A004F0401.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	3.17	3.13	3.21
Ethylene	4.03	3.98	4.08
Acetylene	4.13	4.05	4.21
Ethane	4.30	4.25	4.35

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\A004F0401.D
 Lims ID: ccvrt
 Client ID:
 Sample Type: CCVRT
 Inject. Date: 01-Jun-2020 13:13:44 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 02-Jun-2020 08:27:32 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1037

First Level Reviewer: sciannac

Date: 01-Jun-2020 13:31:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	--------------	------------------	------------------	----------	-----------------	-------------------	-------

2 Methane

1	1.253	1.253	0.000	11759873	73.0	81.5	
2	3.170	3.170	0.000	5615905	73.0	81.8	
RPD = 0.39							

3 Ethane

1	1.503	1.503	0.000	22244500	136.9	163.5	Ma
2	4.302	4.302	0.000	9974077	136.9	163.4	a
RPD = 0.09							

4 Ethylene

1	1.758	1.758	0.000	19777364	127.7	179.4	Ma
2	4.028	4.028	0.000	8742034	127.7	182.4	M
RPD = 1.62							

5 Propane

1	2.423	2.423	0.000	33032790	200.7	230.6	
2	5.923	5.923	0.000	14762047	200.7	235.7	
RPD = 2.19							

6 Acetylene

1	3.865	3.865	0.000	6946965	118.5	202.6	a
2	4.133	4.133	0.000	4652968	118.5	215.4	M
RPD = 6.12							

7 Butane

1	4.166	4.166	0.000	39410804	264.5	298.8	
2	7.367	7.367	0.000	19182054	264.5	300.8	
RPD = 0.67							

8 isobutylene

1	5.065	5.065	0.000	34371587	255.4	385.0	
2	7.218	7.218	0.000	16078086	255.4	386.9	
RPD = 0.48							

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031

Amount Added: 200.00

Units: uL

Report Date: 02-Jun-2020 08:27:32

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\A004F0401.D

Injection Date: 01-Jun-2020 13:13:44

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: ccvrt

Worklist Smp#: 4

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

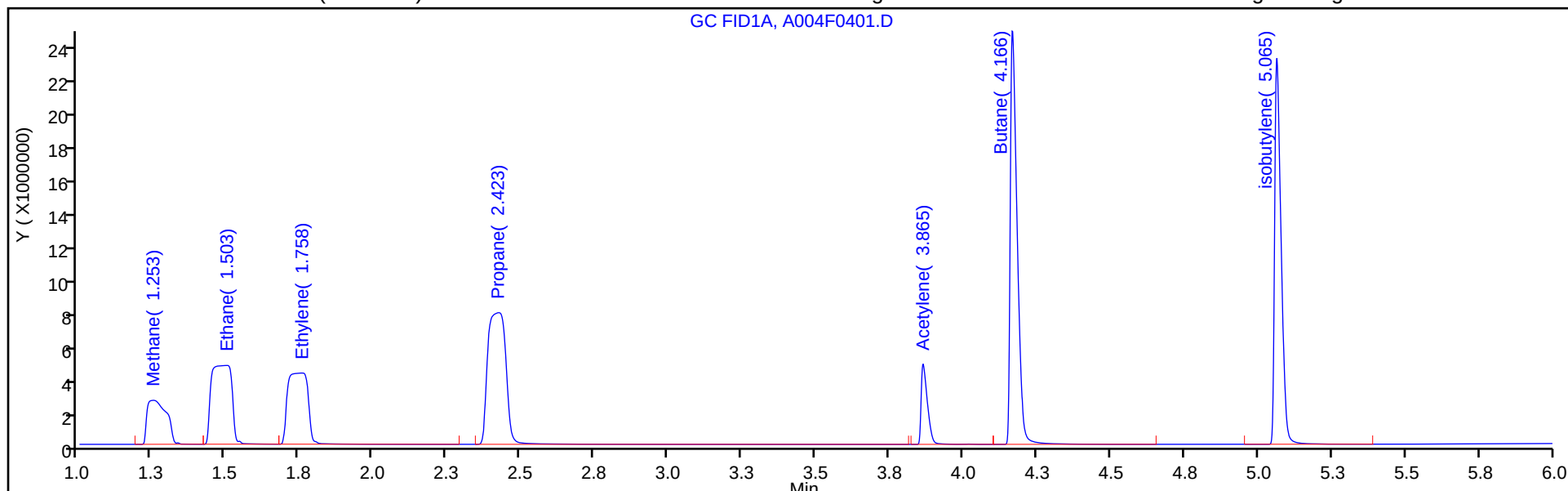
ALS Bottle#: 4

Method: RSK_J

Limit Group: GCV - RSK 175

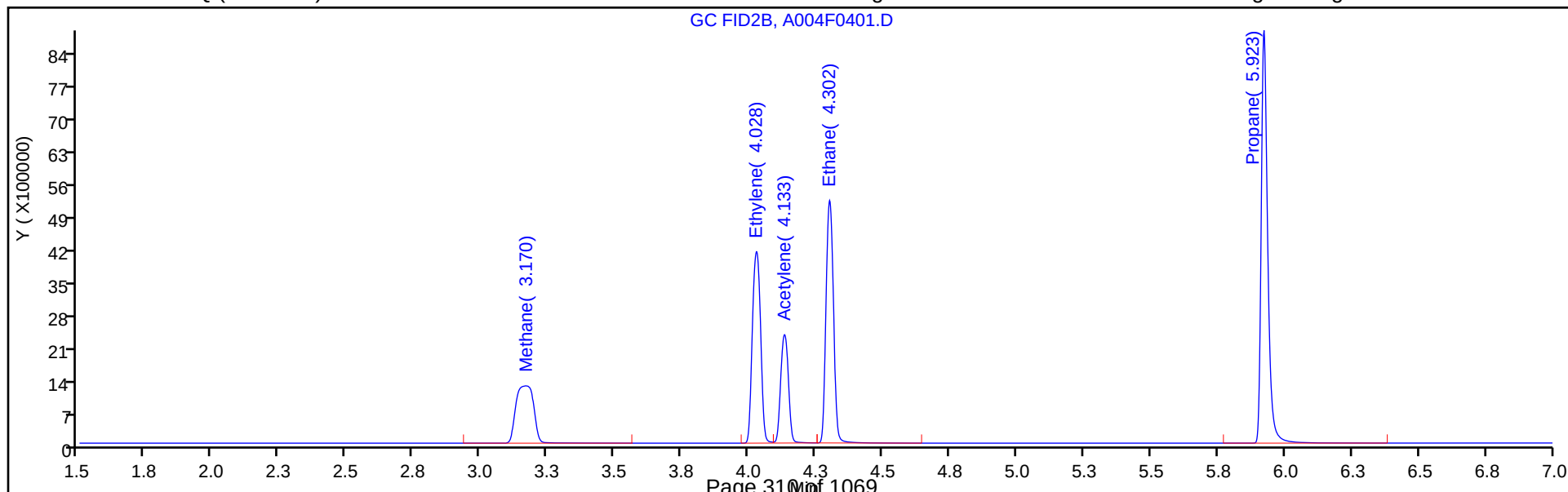
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\A004F0401.D

Injection Date: 01-Jun-2020 13:13:44

Instrument ID: VGC_J

Lims ID: ccvrt

Client ID:

Operator ID: SCIANNAC

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

Method: RSK_J

Limit Group: GCV - RSK 175

Column: HP-PLOT/Q (0.53 mm)

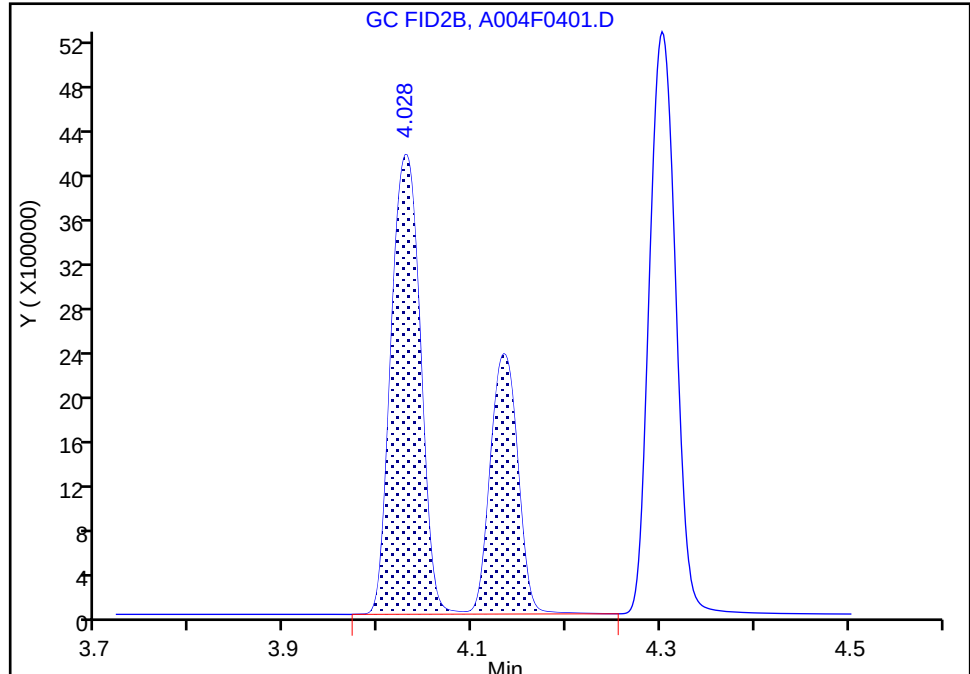
Detector: GC FID2B

4 Ethylene, CAS: 74-85-1

Signal: 2

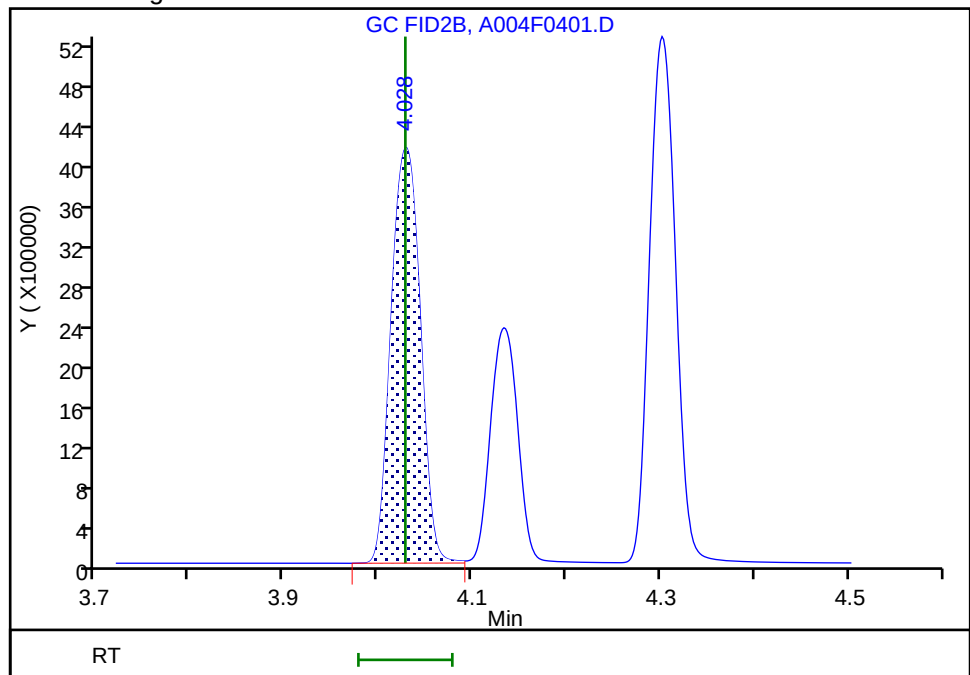
RT: 4.03
Area: 13394965
Amount: 279.4477
Amount Units: ug/l

Processing Integration Results



RT: 4.03
Area: 8742034
Amount: 182.3776
Amount Units: ug/l

Manual Integration Results



Reviewer: sciannac, 01-Jun-2020 13:30:47

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Wrong Peak

Eurofins TestAmerica, Denver

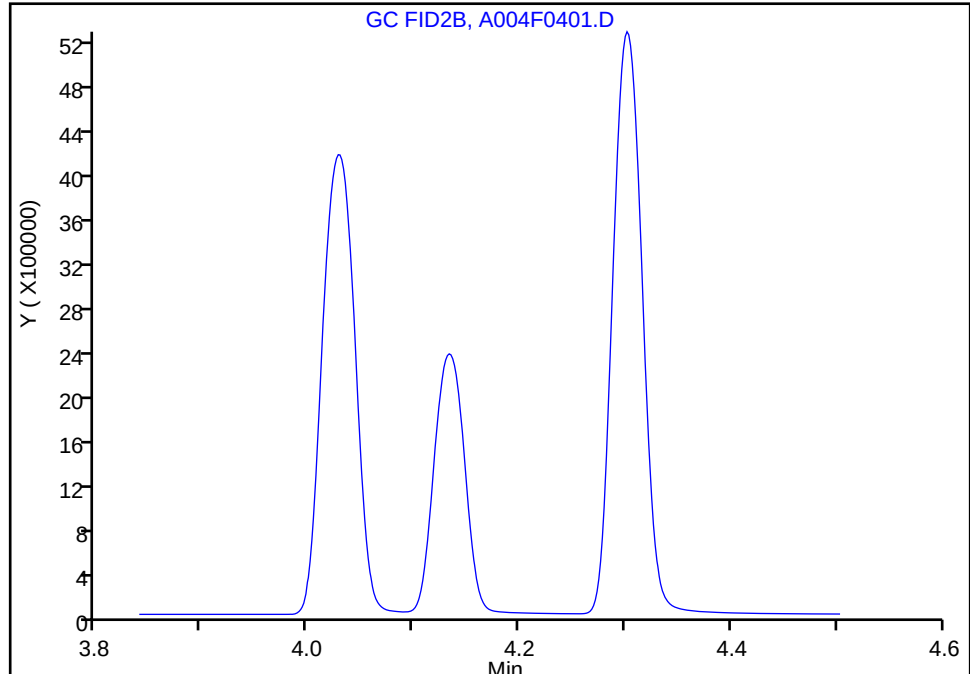
Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\A004F0401.D
Injection Date: 01-Jun-2020 13:13:44 Instrument ID: VGC_J
Lims ID: ccvrt
Client ID:
Operator ID: SCIANNAC ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: HP-PLOT/Q (0.53 mm) Detector: GC FID2B

6 Acetylene, CAS: 74-86-2

Signal: 2

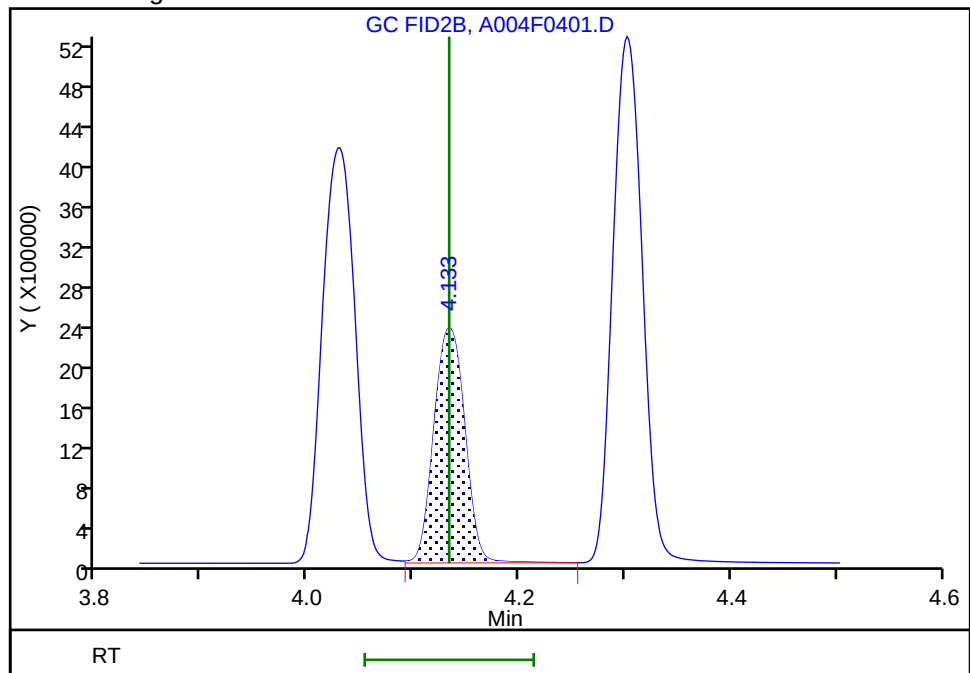
Not Detected
Expected RT: 4.13

Processing Integration Results



RT: 4.13
Area: 4652968
Amount: 215.3604
Amount Units: ug/l

Manual Integration Results



Reviewer: sciannac, 01-Jun-2020 13:30:16
Audit Action: Split an Integrated Peak

Audit Reason: Wrong Peak

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\A004F0401.D

Injection Date: 01-Jun-2020 13:13:44

Instrument ID: VGC_J

Lims ID: ccvrt

Client ID:

Operator ID: SCIANNAC

ALS Bottle#:

4

Worklist Smp#: 4

Purge Vol: 18.000 mL

Dil. Factor:

1.0000

Method: RSK_J

Limit Group:

GCV - RSK 175

Column: HP-PLOT/Q (0.53 mm)

Detector

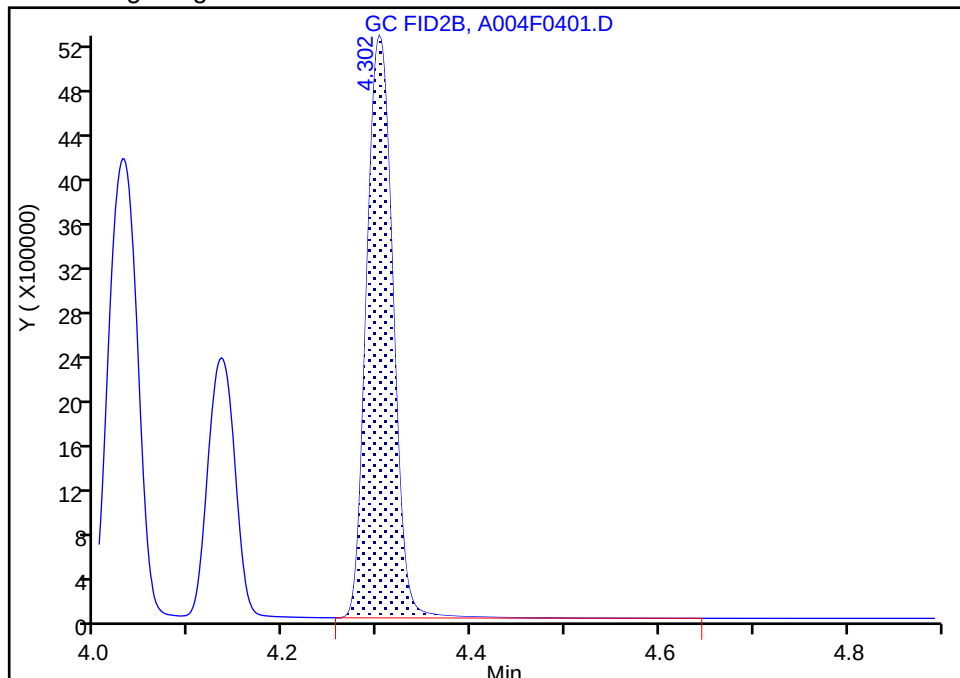
GC FID2B

3 Ethane, CAS: 74-84-0

Signal: 2

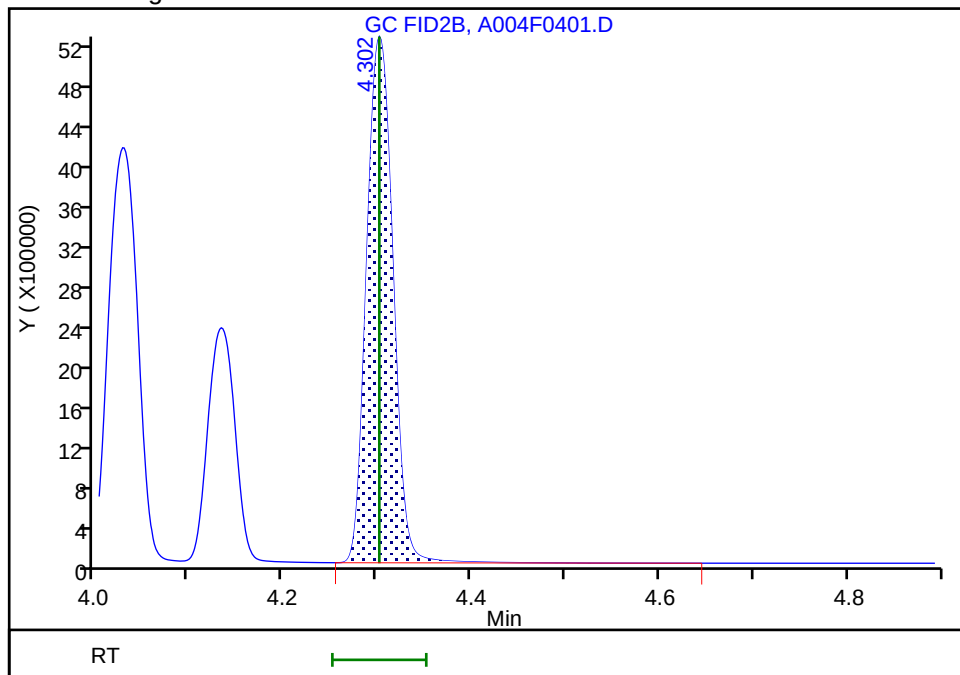
RT: 4.30
Area: 9974077
Amount: 163.3582
Amount Units: ug/l

Processing Integration Results



RT: 4.30
Area: 9974077
Amount: 163.3582
Amount Units: ug/l

Manual Integration Results



Reviewer: sciannac, 01-Jun-2020 13:30:38

Audit Action: Assigned Compound ID

Audit Reason: Wrong Peak

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCV 280-496925/33 Calibration Date: 06/01/2020 14:42
 Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
 GC Column: Rt-Alumina KCl ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
 Lab File ID: 010F0101.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin2		159035		80.4	73.0	10.2	20.0
Ethane	Ave	136043	155331		156	137	14.2	20.0
Ethylene	Ave	110213	125235		145	128	13.6	20.0
Acetylene	Ave	34294	35186		122	119	2.6	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-496925/33 Calibration Date: 06/01/2020 14:42
Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
GC Column: Rt-Alumina KCl ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
Lab File ID: 010F0101.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.25	1.21	1.29
Ethane	1.50	1.45	1.55
Ethylene	1.76	1.71	1.81
Acetylene	3.89	3.79	3.95

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\010F0101.D
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 01-Jun-2020 14:42:51 ALS Bottle#: 10 Worklist Smp#: 33
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 02-Jun-2020 08:27:25 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1037

First Level Reviewer: sciannac

Date: 01-Jun-2020 15:22:00

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	--------------	------------------	------------------	----------	-----------------	-------------------	-------

2 Methane

1	1.253	1.253	0.000	11610054	73.0	80.4	
2	3.187	3.170	0.017	5504689	73.0	80.2	
RPD = 0.33							

3 Ethane

1	1.503	1.503	0.000	21257856	136.9	156.3	
2	4.312	4.302	0.010	9475209	136.9	155.2	
RPD = 0.69							

4 Ethylene

1	1.758	1.758	0.000	15988300	127.7	145.1	
2	4.040	4.028	0.012	6967266	127.7	145.4	
RPD = 0.20							

5 Propane

1	2.430	2.423	0.007	32318914	200.7	225.6	
2	5.929	5.923	0.006	14317704	200.7	228.6	
RPD = 1.32							

6 Acetylene

1	3.887	3.865	0.022	4170347	118.5	121.6	M
2	4.144	4.133	0.011	2789910	118.5	129.1	M
RPD = 6.00							

7 Butane

1	4.182	4.166	0.016	38991391	264.5	295.6	
2	7.370	7.367	0.003	18703137	264.5	293.3	
RPD = 0.79							

8 isobutylene

1	5.083	5.065	0.018	26478191	255.4	296.6	
2	7.224	7.218	0.006	12303610	255.4	296.1	
RPD = 0.19							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

RSK7gasMathes_00031

Amount Added: 200.00

Units: uL

Report Date: 02-Jun-2020 08:27:25

Chrom Revision: 2.3 05-May-2020 17:48:18

Euofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\010F0101.D

Injection Date: 01-Jun-2020 14:42:51

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: ccv

Worklist Smp#: 33

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

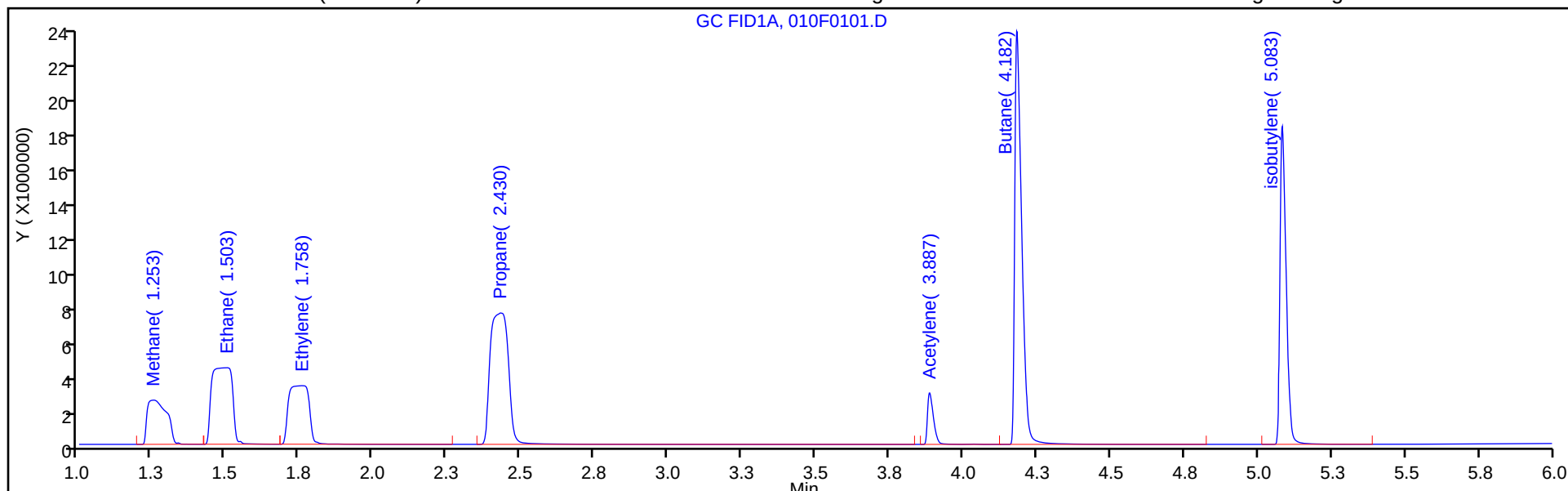
ALS Bottle#: 10

Method: RSK_J

Limit Group: GCV - RSK 175

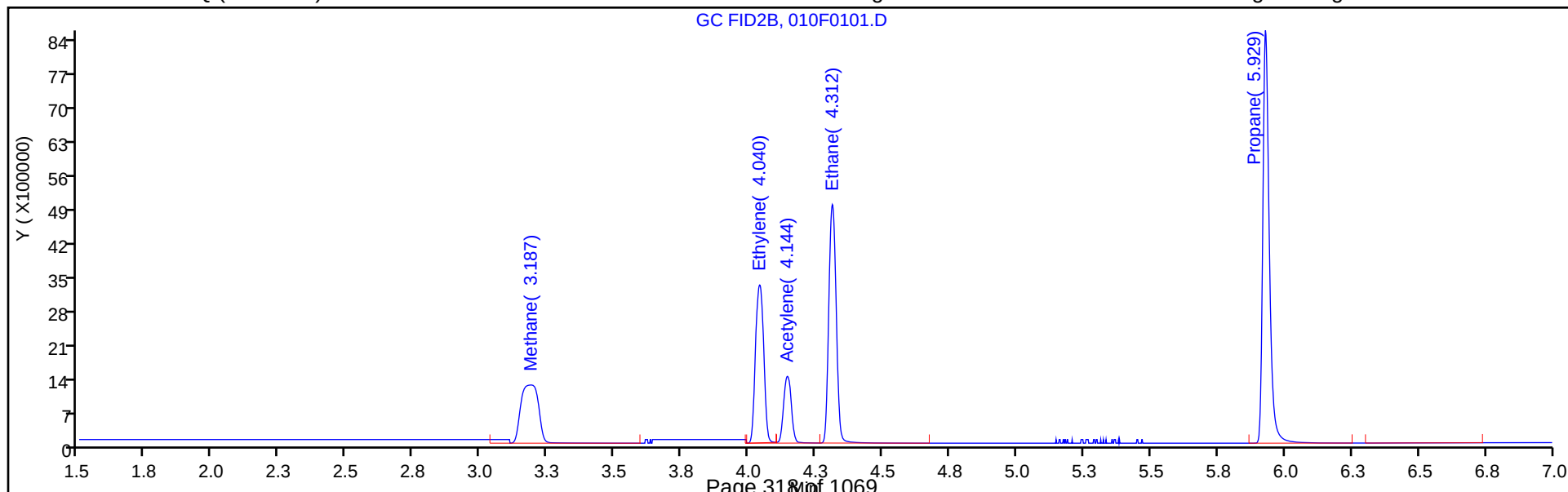
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCV 280-496925/33 Calibration Date: 06/01/2020 14:42
 Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
 GC Column: HP-Plot Q ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
 Lab File ID: 010F0101.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin2		75403		80.2	73.0	9.8	20.0
Ethylene	Ave	47934	54574		145	128	13.9	20.0
Acetylene	Ave	21605	23539		129	119	8.9	20.0
Ethane	Ave	61056	69235		155	137	13.4	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-496925/33 Calibration Date: 06/01/2020 14:42
Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
GC Column: HP-Plot Q ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
Lab File ID: 010F0101.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	3.19	3.13	3.21
Ethylene	4.04	3.98	4.08
Acetylene	4.14	4.05	4.21
Ethane	4.31	4.25	4.35

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\010F0101.D
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 01-Jun-2020 14:42:51 ALS Bottle#: 10 Worklist Smp#: 33
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 02-Jun-2020 08:27:25 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1037

First Level Reviewer: sciannac

Date: 01-Jun-2020 15:22:00

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.253	1.253	0.000	11610054	73.0	80.4	
2	3.187	3.170	0.017	5504689	73.0	80.2	
RPD = 0.33							

3 Ethane

1	1.503	1.503	0.000	21257856	136.9	156.3	
2	4.312	4.302	0.010	9475209	136.9	155.2	
RPD = 0.69							

4 Ethylene

1	1.758	1.758	0.000	15988300	127.7	145.1	
2	4.040	4.028	0.012	6967266	127.7	145.4	
RPD = 0.20							

5 Propane

1	2.430	2.423	0.007	32318914	200.7	225.6	
2	5.929	5.923	0.006	14317704	200.7	228.6	
RPD = 1.32							

6 Acetylene

1	3.887	3.865	0.022	4170347	118.5	121.6	M
2	4.144	4.133	0.011	2789910	118.5	129.1	M
RPD = 6.00							

7 Butane

1	4.182	4.166	0.016	38991391	264.5	295.6	
2	7.370	7.367	0.003	18703137	264.5	293.3	
RPD = 0.79							

8 isobutylene

1	5.083	5.065	0.018	26478191	255.4	296.6	
2	7.224	7.218	0.006	12303610	255.4	296.1	
RPD = 0.19							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

RSK7gasMathes_00031

Amount Added: 200.00

Units: uL

Report Date: 02-Jun-2020 08:27:25

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\010F0101.D

Injection Date: 01-Jun-2020 14:42:51

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: ccv

Worklist Smp#: 33

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

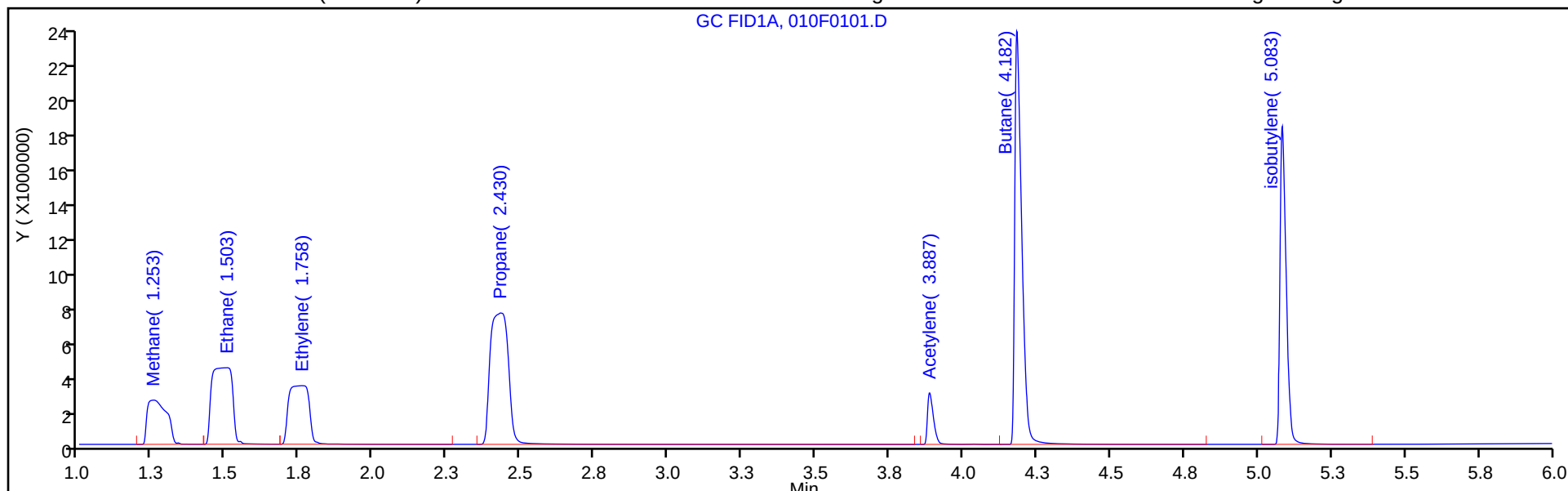
ALS Bottle#: 10

Method: RSK_J

Limit Group: GCV - RSK 175

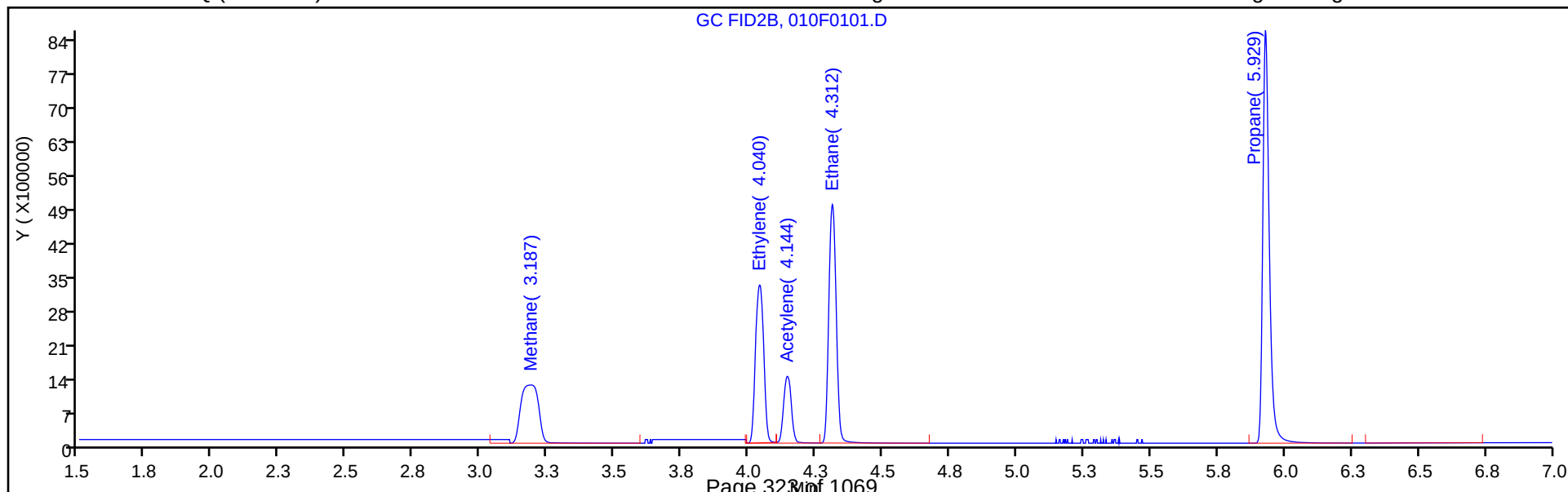
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\010F0101.D
Injection Date: 01-Jun-2020 14:42:51 Instrument ID: VGC_J
Lims ID: ccv
Client ID:
Operator ID: SCIANNAC
Purge Vol: 18.000 mL
Method: RSK_J
Column: HP-PLOT/Q (0.53 mm)

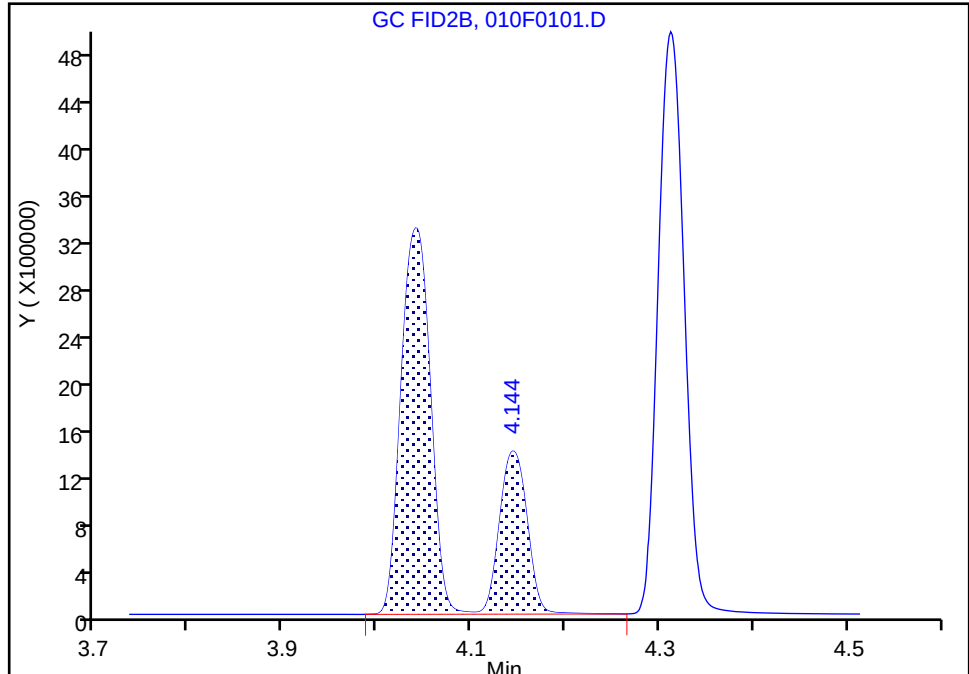
ALS Bottle#: 10 Worklist Smp#: 33
Dil. Factor: 1.0000
Limit Group: GCV - RSK 175
Detector: GC FID2B

6 Acetylene, CAS: 74-86-2

Signal: 2

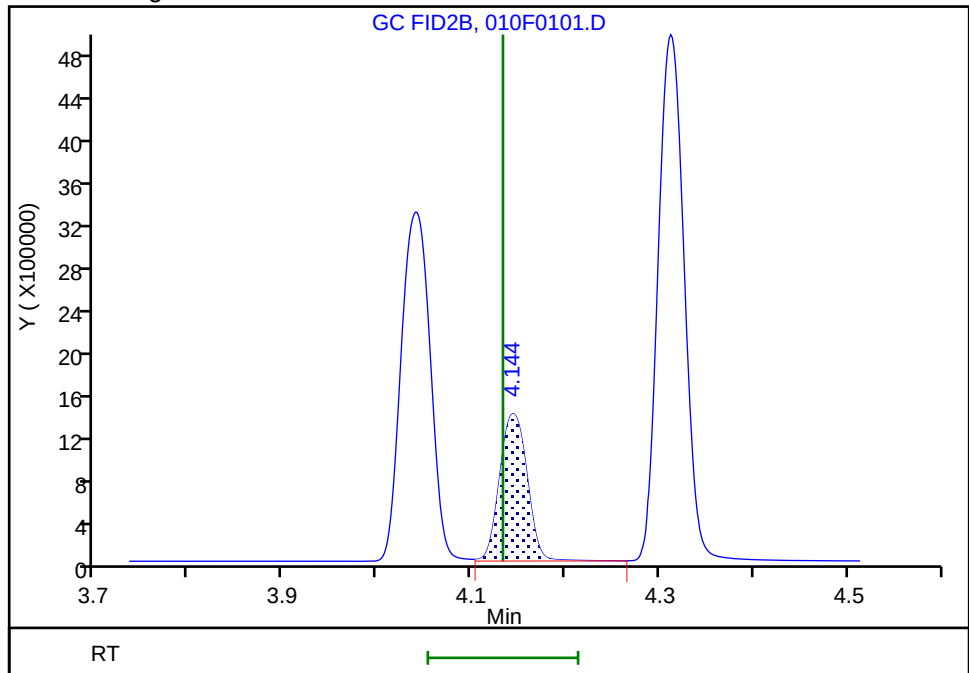
RT: 4.14
Area: 9810623
Amount: 454.0800
Amount Units: ug/l

Processing Integration Results



RT: 4.14
Area: 2789910
Amount: 129.1297
Amount Units: ug/l

Manual Integration Results



Reviewer: sciannac, 01-Jun-2020 15:21:48
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCV 280-496925/36 Calibration Date: 06/01/2020 19:03
 Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
 GC Column: Rt-Alumina KCl ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
 Lab File ID: 026F1701.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin2		158342		80.1	73.0	9.7	20.0
Ethane	Ave	136043	152997		154	137	12.5	20.0
Ethylene	Ave	110213	120700		140	128	9.5	20.0
Acetylene	Ave	34294	35828		124	119	4.5	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-496925/36 Calibration Date: 06/01/2020 19:03
Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
GC Column: Rt-Alumina KCl ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
Lab File ID: 026F1701.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.26	1.21	1.29
Ethane	1.50	1.45	1.55
Ethylene	1.77	1.71	1.81
Acetylene	3.91	3.79	3.95

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\026F1701.D
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 01-Jun-2020 19:03:56 ALS Bottle#: 26 Worklist Smp#: 36
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 02-Jun-2020 08:27:32 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1037

First Level Reviewer: sciannac

Date: 02-Jun-2020 08:22:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.257	1.253	0.004	11559466	73.0	80.1	
2	3.179	3.170	0.009	5511892	73.0	80.3	
RPD = 0.24							

3 Ethane

1	1.504	1.503	0.001	20938525	136.9	153.9	
2	4.307	4.302	0.005	9387210	136.9	153.7	
RPD = 0.11							

4 Ethylene

1	1.774	1.758	0.016	15409413	127.7	139.8	
2	4.034	4.028	0.006	6757269	127.7	141.0	
RPD = 0.82							

5 Propane

1	2.454	2.423	0.031	31939392	200.7	223.0	
2	5.925	5.923	0.002	14263541	200.7	227.7	
RPD = 2.12							

6 Acetylene

1	3.907	3.865	0.042	4246364	118.5	123.8	M
2	4.139	4.133	0.006	2874363	118.5	133.0	M
RPD = 7.18							

7 Butane

1	4.199	4.166	0.033	38390404	264.5	291.0	
2	7.369	7.367	0.002	18566230	264.5	291.1	
RPD = 0.03							

8 isobutylene

1	5.097	5.065	0.032	24894289	255.4	278.9	
2	7.222	7.218	0.004	11661797	255.4	280.6	
RPD = 0.62							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

RSK7gasMathes_00031

Amount Added: 200.00

Units: uL

Report Date: 02-Jun-2020 08:27:32

Chrom Revision: 2.3 05-May-2020 17:48:18

Euofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\026F1701.D

Injection Date: 01-Jun-2020 19:03:56

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: ccv

Worklist Smp#: 36

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

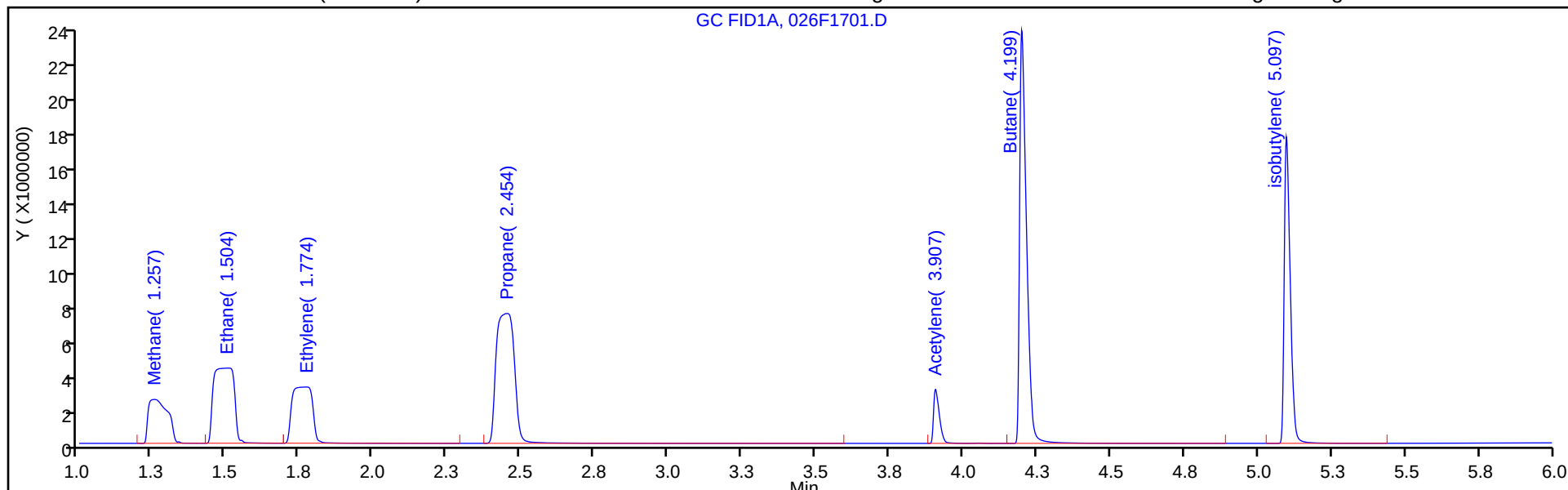
ALS Bottle#: 26

Method: RSK_J

Limit Group: GCV - RSK 175

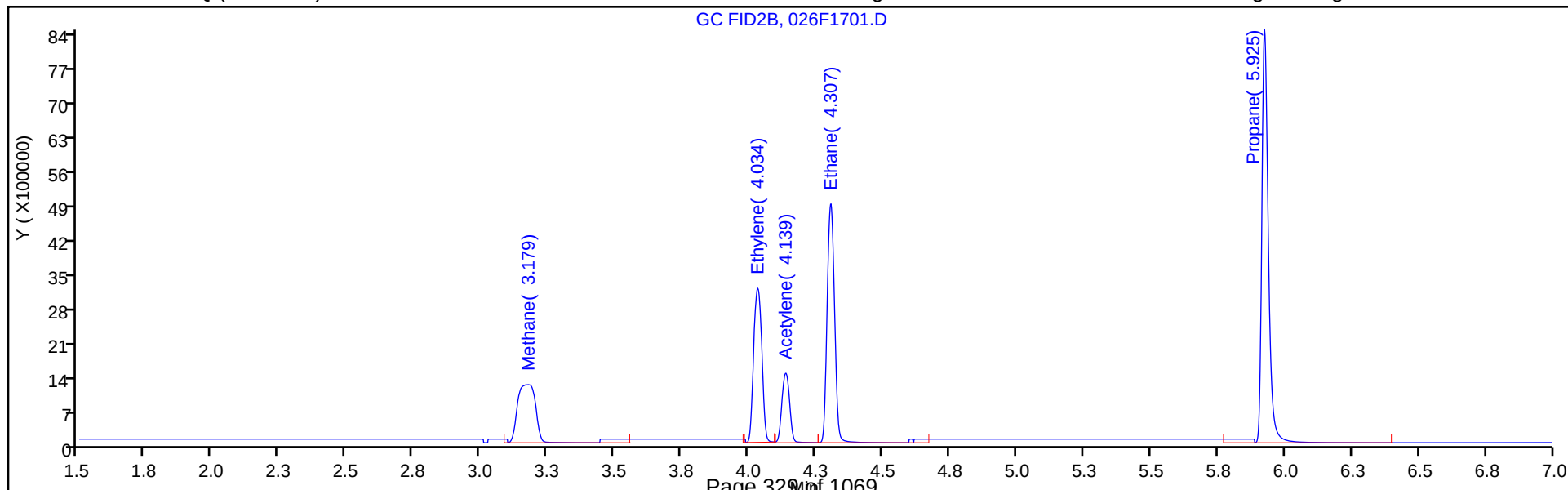
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-496925/36 Calibration Date: 06/01/2020 19:03
Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
GC Column: HP-Plot Q ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
Lab File ID: 026F1701.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin2		75502		80.3	73.0	10.0	20.0
Ethylene	Ave	47934	52929		141	128	10.4	20.0
Acetylene	Ave	21605	24252		133	119	12.2	20.0
Ethane	Ave	61056	68592		154	137	12.3	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-496925/36 Calibration Date: 06/01/2020 19:03
Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
GC Column: HP-Plot Q ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
Lab File ID: 026F1701.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	3.18	3.13	3.21
Ethylene	4.03	3.98	4.08
Acetylene	4.14	4.05	4.21
Ethane	4.31	4.25	4.35

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\026F1701.D
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 01-Jun-2020 19:03:56 ALS Bottle#: 26 Worklist Smp#: 36
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 02-Jun-2020 08:27:32 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1037

First Level Reviewer: sciannac

Date: 02-Jun-2020 08:22:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.257	1.253	0.004	11559466	73.0	80.1	
2	3.179	3.170	0.009	5511892	73.0	80.3	
RPD = 0.24							

3 Ethane

1	1.504	1.503	0.001	20938525	136.9	153.9	
2	4.307	4.302	0.005	9387210	136.9	153.7	
RPD = 0.11							

4 Ethylene

1	1.774	1.758	0.016	15409413	127.7	139.8	
2	4.034	4.028	0.006	6757269	127.7	141.0	
RPD = 0.82							

5 Propane

1	2.454	2.423	0.031	31939392	200.7	223.0	
2	5.925	5.923	0.002	14263541	200.7	227.7	
RPD = 2.12							

6 Acetylene

1	3.907	3.865	0.042	4246364	118.5	123.8	M
2	4.139	4.133	0.006	2874363	118.5	133.0	M
RPD = 7.18							

7 Butane

1	4.199	4.166	0.033	38390404	264.5	291.0	
2	7.369	7.367	0.002	18566230	264.5	291.1	
RPD = 0.03							

8 isobutylene

1	5.097	5.065	0.032	24894289	255.4	278.9	
2	7.222	7.218	0.004	11661797	255.4	280.6	
RPD = 0.62							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

RSK7gasMathes_00031

Amount Added: 200.00

Units: uL

Report Date: 02-Jun-2020 08:27:32

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\026F1701.D

Injection Date: 01-Jun-2020 19:03:56

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: ccv

Worklist Smp#: 36

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

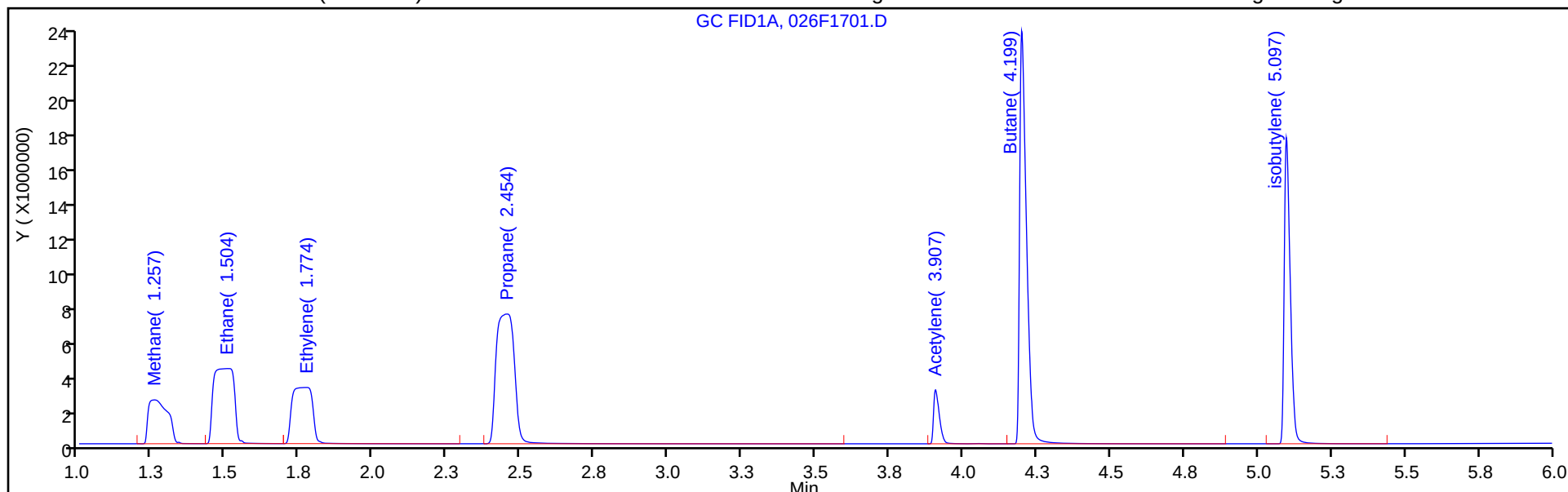
ALS Bottle#: 26

Method: RSK_J

Limit Group: GCV - RSK 175

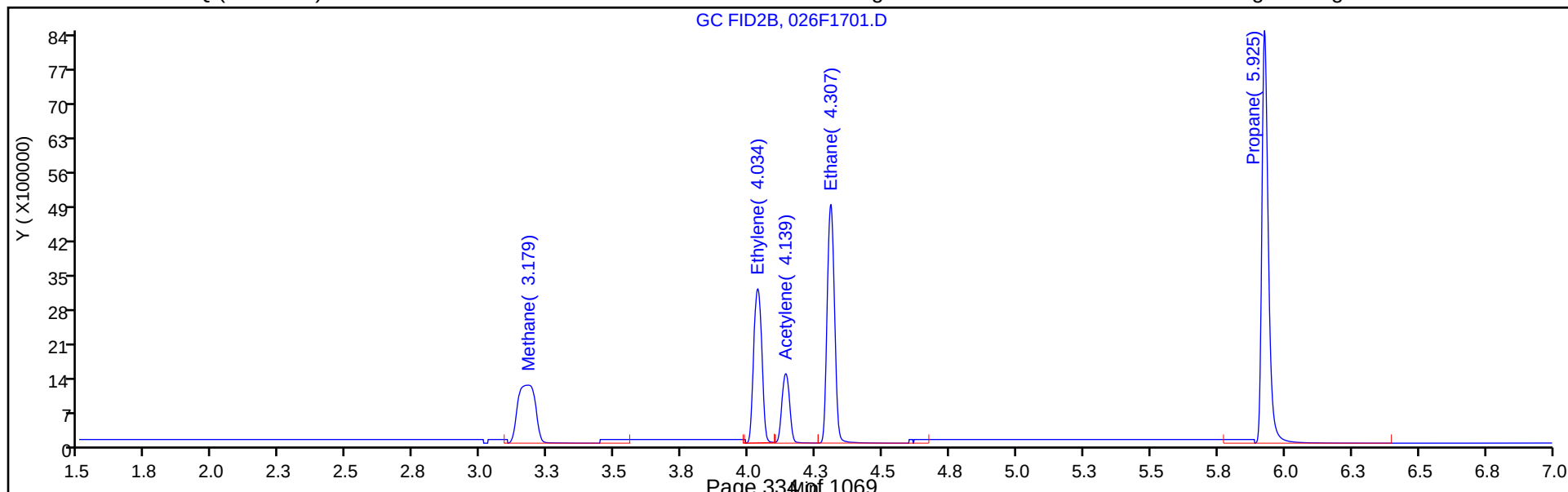
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\026F1701.D
Injection Date: 01-Jun-2020 19:03:56 Instrument ID: VGC_J
Lims ID: ccv
Client ID:
Operator ID: SCIANNAC
Purge Vol: 18.000 mL
Method: RSK_J
Column: HP-PLOT/Q (0.53 mm)

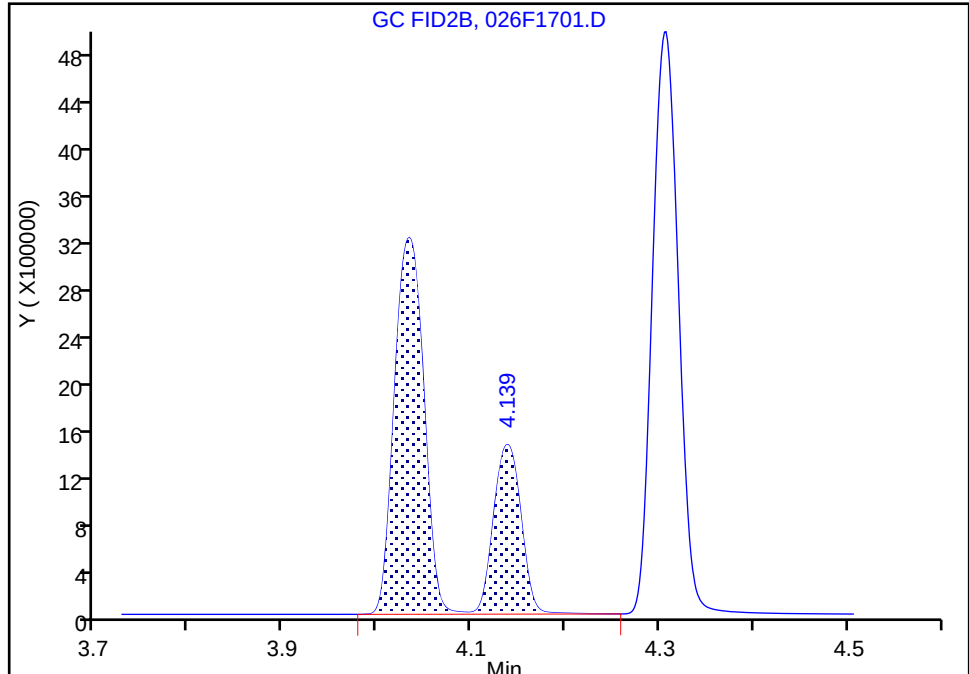
ALS Bottle#: 26 Worklist Smp#: 36
Dil. Factor: 1.0000
Limit Group: GCV - RSK 175
Detector: GC FID2B

6 Acetylene, CAS: 74-86-2

Signal: 2

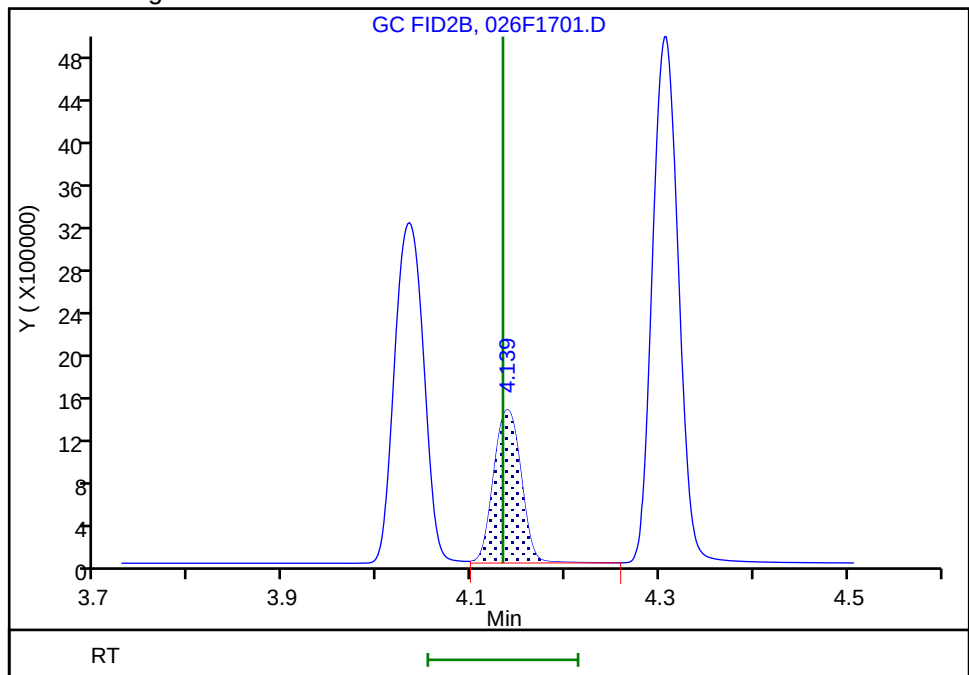
RT: 4.14
Area: 9685032
Amount: 448.2671
Amount Units: ug/l

Processing Integration Results



RT: 4.14
Area: 2874363
Amount: 133.0385
Amount Units: ug/l

Manual Integration Results



Reviewer: sciannac, 02-Jun-2020 08:22:02
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCVRT 280-497247/4 Calibration Date: 06/03/2020 11:03
 Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
 GC Column: Rt-Alumina KCl ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
 Lab File ID: 004F0401.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin2		158899		80.4	73.0	10.1	20.0
Ethane	Ave	136043	152908		154	137	12.4	20.0
Ethylene	Ave	110213	125872		146	128	14.2	20.0
Acetylene	Ave	34294	36893		128	119	7.6	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCVRT 280-497247/4 Calibration Date: 06/03/2020 11:03
Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
GC Column: Rt-Alumina KCl ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
Lab File ID: 004F0401.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.25	1.21	1.29
Ethane	1.50	1.45	1.55
Ethylene	1.76	1.71	1.81
Acetylene	3.89	3.81	3.97

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\004F0401.D
 Lims ID: ccvrt
 Client ID:
 Sample Type: CCVRT
 Inject. Date: 03-Jun-2020 11:03:31 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 05-Jun-2020 13:56:27 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1025

First Level Reviewer: sciannac

Date: 03-Jun-2020 12:50:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.250	1.250	0.000	11600168	73.0	80.4	
2	3.161	3.161	0.000	5554229	73.0	80.9	
RPD = 0.65							

3 Ethane

1	1.500	1.500	0.000	20926335	136.9	153.8	
2	4.296	4.296	0.000	9427549	136.9	154.4	
RPD = 0.38							

4 Ethylene

1	1.758	1.758	0.000	16069673	127.7	145.8	Ma
2	4.023	4.023	0.000	7138347	127.7	148.9	M
RPD = 2.11							

5 Propane

1	2.433	2.433	0.000	32812769	200.7	229.1	
2	5.918	5.918	0.000	14715691	200.7	235.0	
RPD = 2.54							

6 Acetylene

1	3.886	3.886	0.000	4372610	118.5	127.5	Ma
2	4.128	4.128	0.000	2958163	118.5	136.9	M
RPD = 7.12							

7 Butane

1	4.181	4.181	0.000	40265992	264.5	305.2	
2	7.363	7.363	0.000	19624676	264.5	307.7	
RPD = 0.80							

8 isobutylene

1	5.083	5.083	0.000	27463718	255.4	307.7	
2	7.216	7.216	0.000	12911219	255.4	310.7	
RPD = 0.98							

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031

Amount Added: 200.00

Units: uL

Report Date: 05-Jun-2020 13:56:27

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\004F0401.D

Injection Date: 03-Jun-2020 11:03:31

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: ccvrt

Worklist Smp#: 4

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

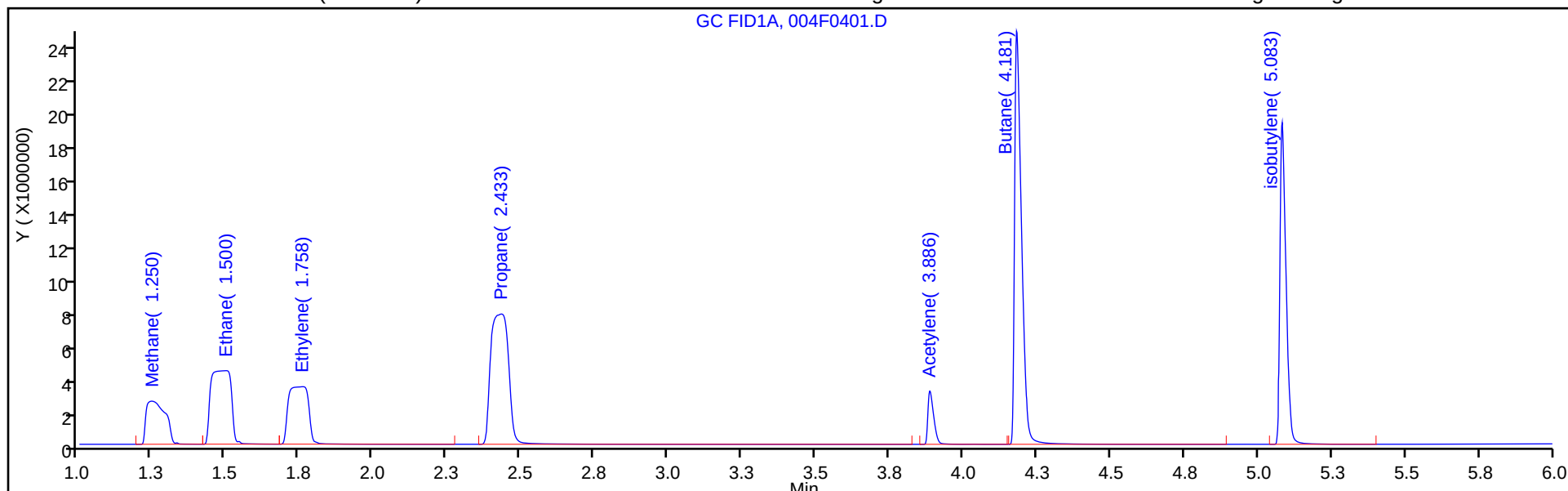
ALS Bottle#: 4

Method: RSK_J

Limit Group: GCV - RSK 175

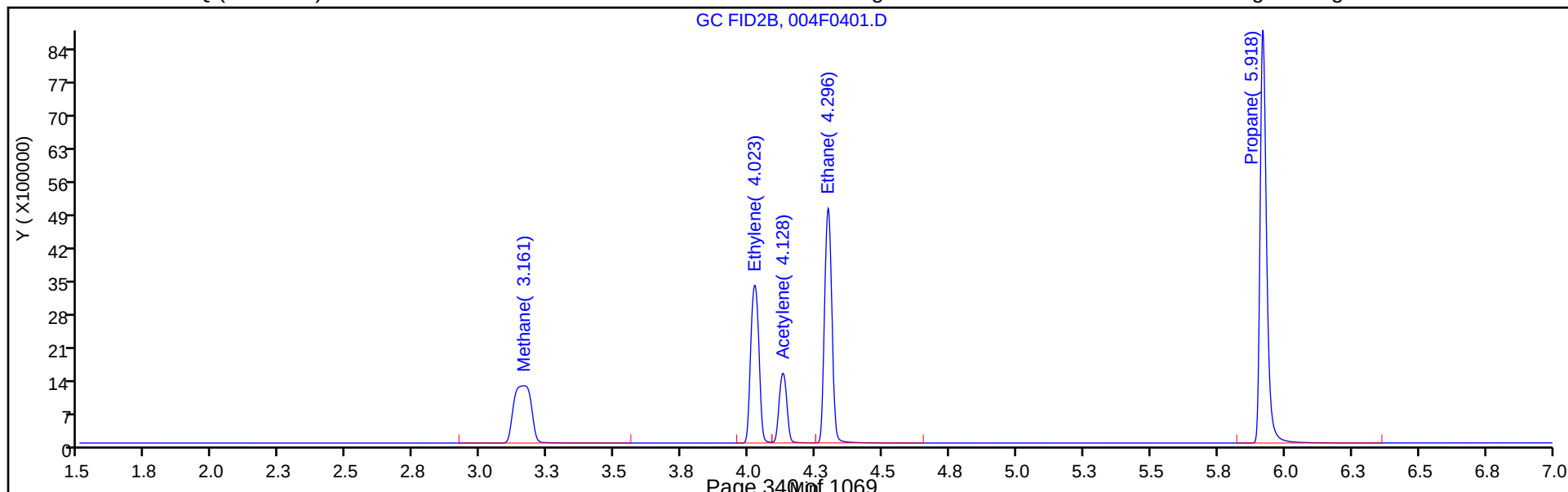
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

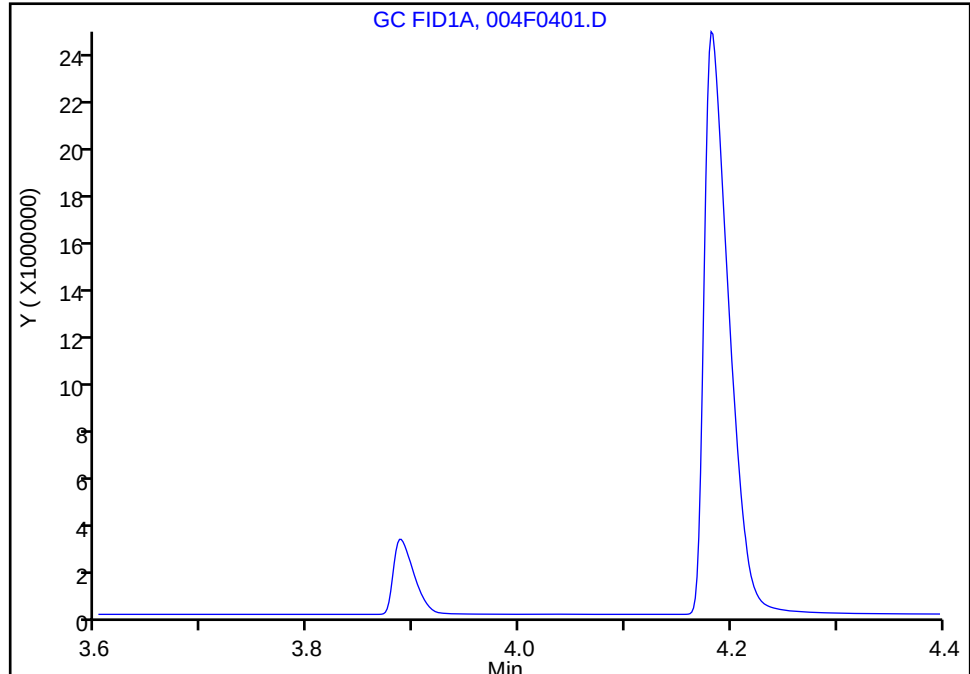
Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\004F0401.D
Injection Date: 03-Jun-2020 11:03:31 Instrument ID: VGC_J
Lims ID: ccvrt
Client ID:
Operator ID: SCIANNAC ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: Rt-Alumina BOND/KCl (0.53 mm) Detector: GC FID1A

6 Acetylene, CAS: 74-86-2

Signal: 1

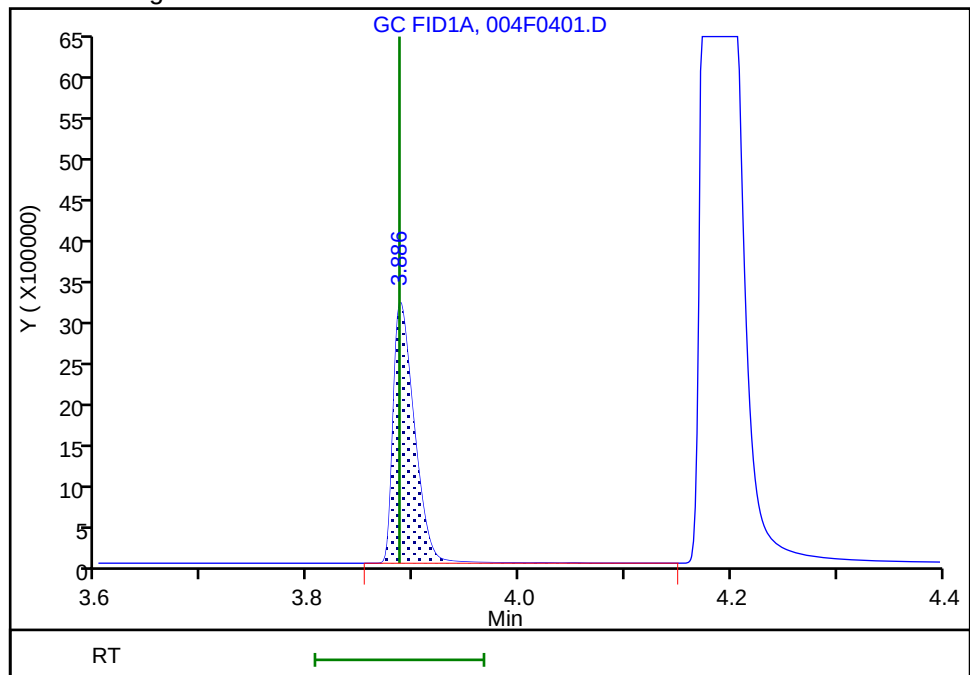
Not Detected
Expected RT: 3.89

Processing Integration Results



RT: 3.89
Area: 4372610
Amount: 127.5026
Amount Units: ug/l

Manual Integration Results



Reviewer: sciannac, 03-Jun-2020 12:47:05
Audit Action: Assigned Compound ID

Audit Reason: Split Peak

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCVRT 280-497247/4 Calibration Date: 06/03/2020 11:03
Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
GC Column: HP-Plot Q ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
Lab File ID: 004F0401.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin2		76082		80.9	73.0	10.8	20.0
Ethylene	Ave	47934	55914		149	128	16.6	20.0
Acetylene	Ave	21605	24959		137	119	15.5	20.0
Ethane	Ave	61056	68887		154	137	12.8	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCVRT 280-497247/4 Calibration Date: 06/03/2020 11:03
Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
GC Column: HP-Plot Q ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
Lab File ID: 004F0401.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	3.16	3.12	3.20
Ethylene	4.02	3.97	4.07
Acetylene	4.13	4.05	4.21
Ethane	4.30	4.25	4.35

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\004F0401.D
 Lims ID: ccvrt
 Client ID:
 Sample Type: CCVRT
 Inject. Date: 03-Jun-2020 11:03:31 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 05-Jun-2020 13:56:27 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1025

First Level Reviewer: sciannac

Date: 03-Jun-2020 12:50:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	--------------	------------------	------------------	----------	-----------------	-------------------	-------

2 Methane

1	1.250	1.250	0.000	11600168	73.0	80.4	
2	3.161	3.161	0.000	5554229	73.0	80.9	
RPD = 0.65							

3 Ethane

1	1.500	1.500	0.000	20926335	136.9	153.8	
2	4.296	4.296	0.000	9427549	136.9	154.4	
RPD = 0.38							

4 Ethylene

1	1.758	1.758	0.000	16069673	127.7	145.8	Ma
2	4.023	4.023	0.000	7138347	127.7	148.9	M
RPD = 2.11							

5 Propane

1	2.433	2.433	0.000	32812769	200.7	229.1	
2	5.918	5.918	0.000	14715691	200.7	235.0	
RPD = 2.54							

6 Acetylene

1	3.886	3.886	0.000	4372610	118.5	127.5	Ma
2	4.128	4.128	0.000	2958163	118.5	136.9	M
RPD = 7.12							

7 Butane

1	4.181	4.181	0.000	40265992	264.5	305.2	
2	7.363	7.363	0.000	19624676	264.5	307.7	
RPD = 0.80							

8 isobutylene

1	5.083	5.083	0.000	27463718	255.4	307.7	
2	7.216	7.216	0.000	12911219	255.4	310.7	
RPD = 0.98							

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031

Amount Added: 200.00

Units: uL

Report Date: 05-Jun-2020 13:56:27

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\004F0401.D

Injection Date: 03-Jun-2020 11:03:31

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: ccvrt

Worklist Smp#: 4

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

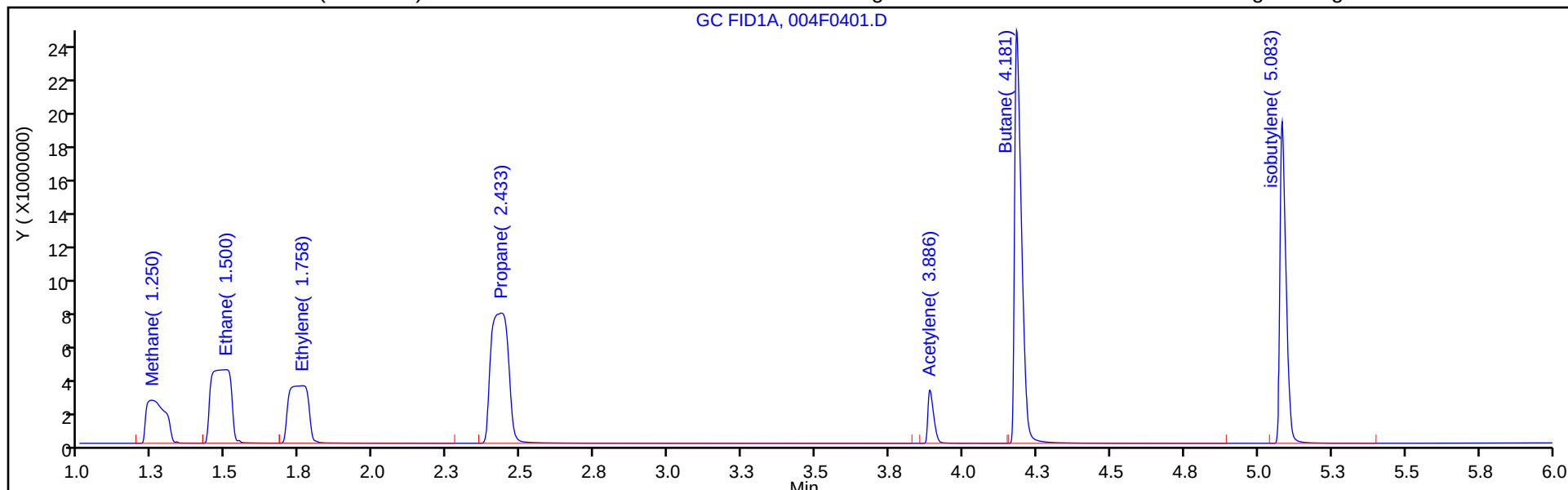
ALS Bottle#: 4

Method: RSK_J

Limit Group: GCV - RSK 175

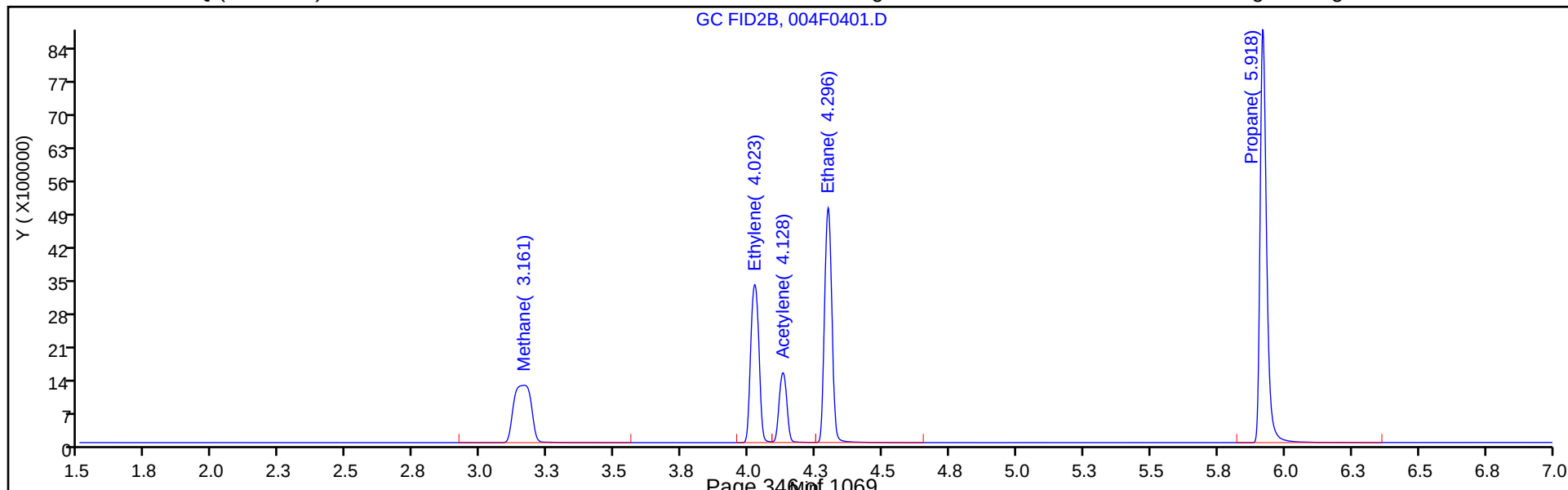
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\004F0401.D
Injection Date: 03-Jun-2020 11:03:31 Instrument ID: VGC_J
Lims ID: ccvrt
Client ID:
Operator ID: SCIANNAC
Purge Vol: 18.000 mL
Method: RSK_J
Column: HP-PLOT/Q (0.53 mm)

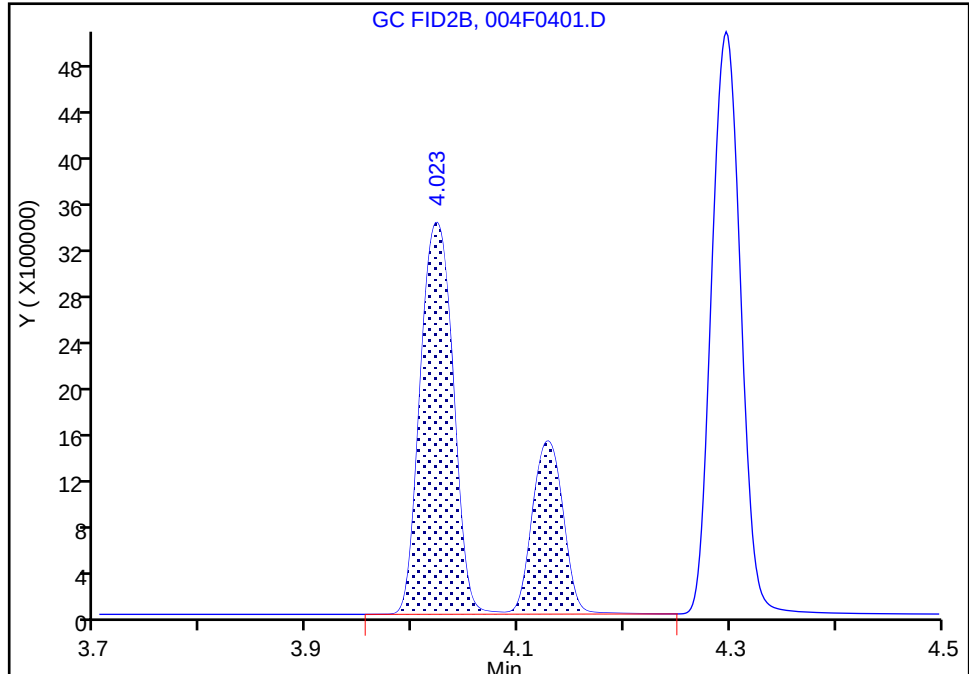
ALS Bottle#: 4 Worklist Smp#: 4
Dil. Factor: 1.0000
Limit Group: GCV - RSK 175
Detector: GC FID2B

4 Ethylene, CAS: 74-85-1

Signal: 2

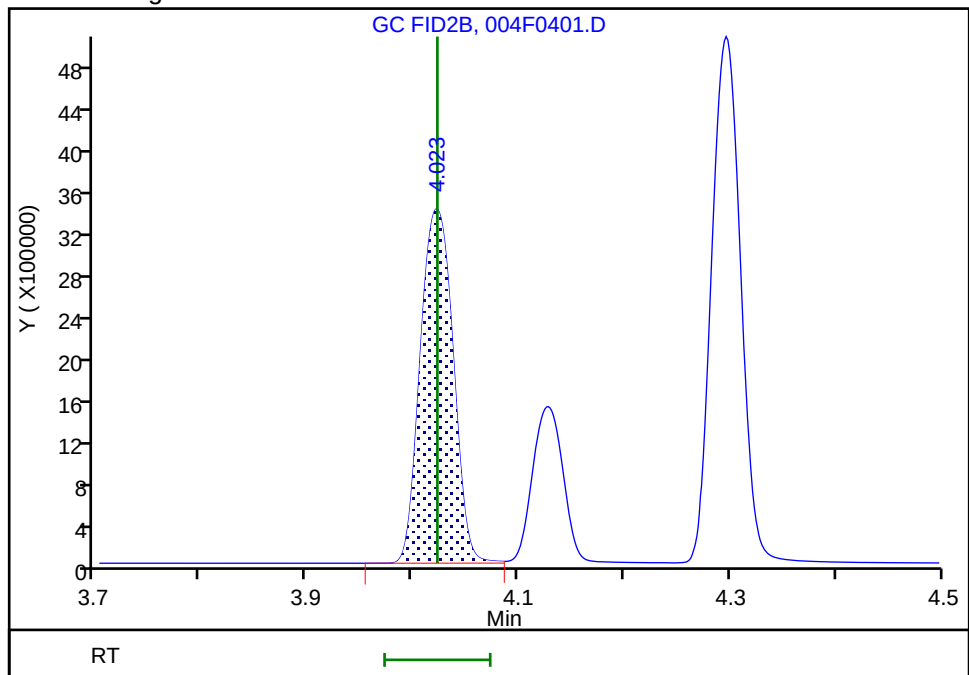
RT: 4.02
Area: 10096422
Amount: 210.6331
Amount Units: ug/l

Processing Integration Results



RT: 4.02
Area: 7138347
Amount: 148.9213
Amount Units: ug/l

Manual Integration Results



Reviewer: sciannac, 03-Jun-2020 12:47:53

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Denver

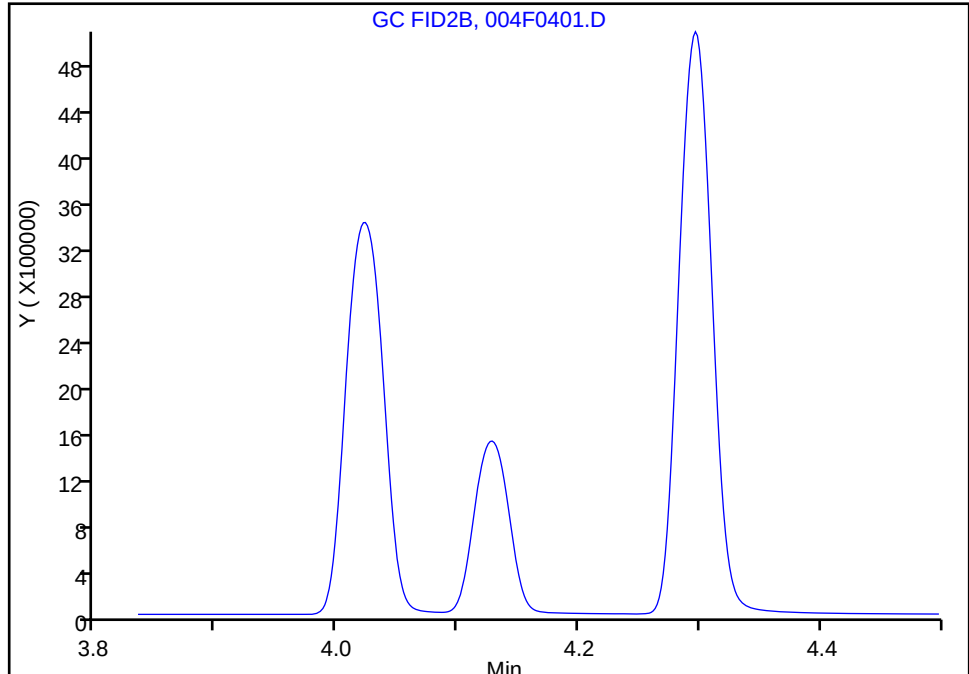
Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\004F0401.D
Injection Date: 03-Jun-2020 11:03:31 Instrument ID: VGC_J
Lims ID: ccvrt
Client ID:
Operator ID: SCIANNAC ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: HP-PLOT/Q (0.53 mm) Detector: GC FID2B

6 Acetylene, CAS: 74-86-2

Signal: 2

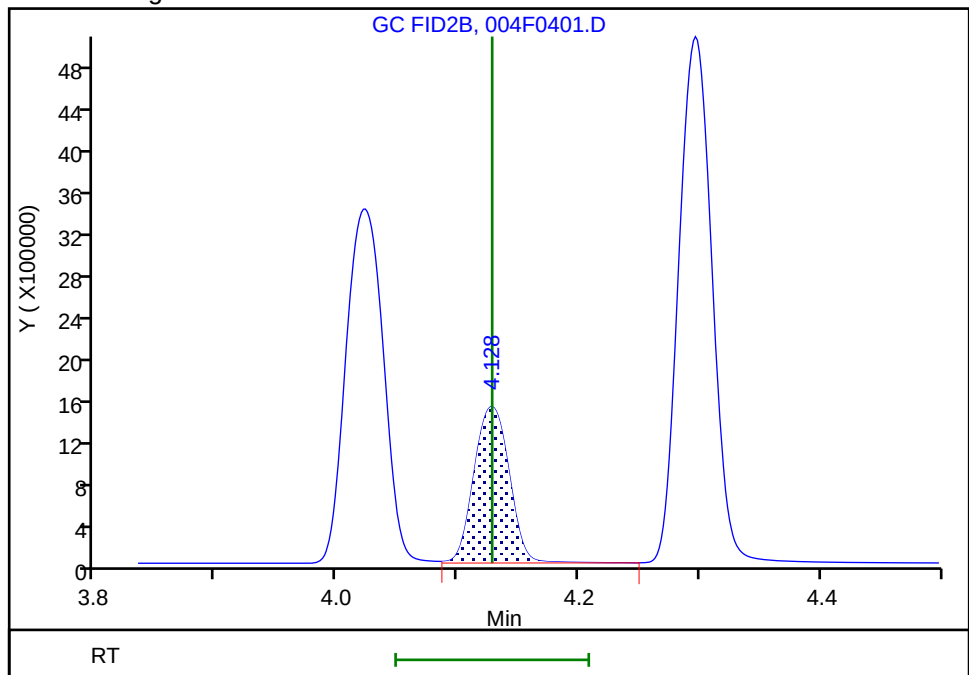
Not Detected
Expected RT: 4.13

Processing Integration Results



RT: 4.13
Area: 2958163
Amount: 136.9172
Amount Units: ug/l

Manual Integration Results



Reviewer: sciannac, 03-Jun-2020 12:47:42

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCV 280-497247/32 Calibration Date: 06/03/2020 14:24
 Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
 GC Column: Rt-Alumina KCl ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
 Lab File ID: 008F0101.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin2		137580		69.5	73.0	-4.7	20.0
Ethane	Ave	136043	135689		136	137	-0.3	20.0
Ethylene	Ave	110213	110454		128	128	0.2	20.0
Acetylene	Ave	34294	34536		119	119	0.7	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-497247/32 Calibration Date: 06/03/2020 14:24
Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
GC Column: Rt-Alumina KCl ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
Lab File ID: 008F0101.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.27	1.21	1.29
Ethane	1.51	1.45	1.55
Ethylene	1.78	1.71	1.81
Acetylene	3.90	3.81	3.97

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\008F0101.D
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 03-Jun-2020 14:24:12 ALS Bottle#: 8 Worklist Smp#: 32
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 05-Jun-2020 13:56:29 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1025

First Level Reviewer: sciannac

Date: 05-Jun-2020 13:21:16

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.265	1.250	0.015	10043823	73.0	69.5	a
2	3.207	3.161	0.046	4735482	73.0	68.9	a
RPD = 0.88							

3 Ethane

1	1.513	1.500	0.013	18569762	136.9	136.5	
2	4.324	4.296	0.028	8222205	136.9	134.7	
RPD = 1.35							

4 Ethylene

1	1.778	1.758	0.020	14101290	127.7	127.9	Ma
2	4.054	4.023	0.031	6150860	127.7	128.3	M
RPD = 0.29							

5 Propane

1	2.465	2.433	0.032	28699904	200.7	200.3	
2	5.937	5.918	0.019	12655080	200.7	202.1	
RPD = 0.85							

6 Acetylene

1	3.903	3.886	0.017	4093276	118.5	119.4	a
2	4.157	4.128	0.029	2729892	118.5	126.4	M
RPD = 5.69							

7 Butane

1	0.000	4.181	-4.181	0	264.5	0	a
2	7.377	7.363	0.014	17122293	264.5	268.5	
RPD = 200.00							

8 isobutylene

1	5.100	5.083	0.017	23789251	255.4	266.5	M
2	7.230	7.216	0.014	10696753	255.4	257.4	M
RPD = 3.48							

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031

Amount Added: 200.00

Units: uL

Report Date: 05-Jun-2020 13:56:29

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\008F0101.D

Injection Date: 03-Jun-2020 14:24:12

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: ccv

Worklist Smp#: 32

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

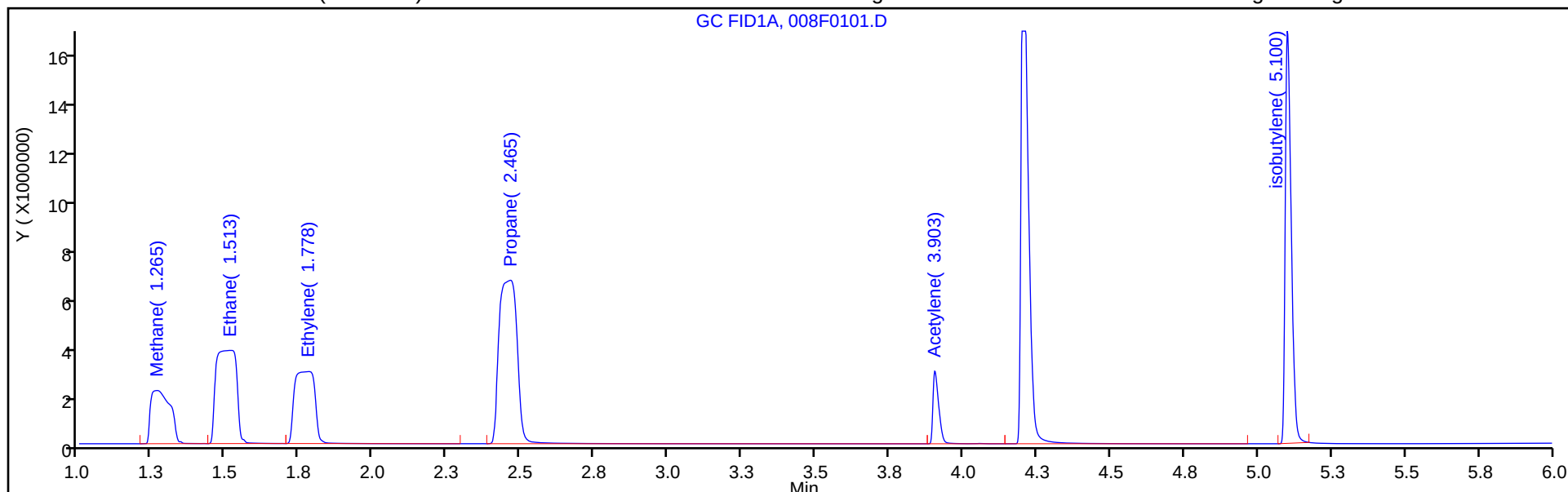
ALS Bottle#: 8

Method: RSK_J

Limit Group: GCV - RSK 175

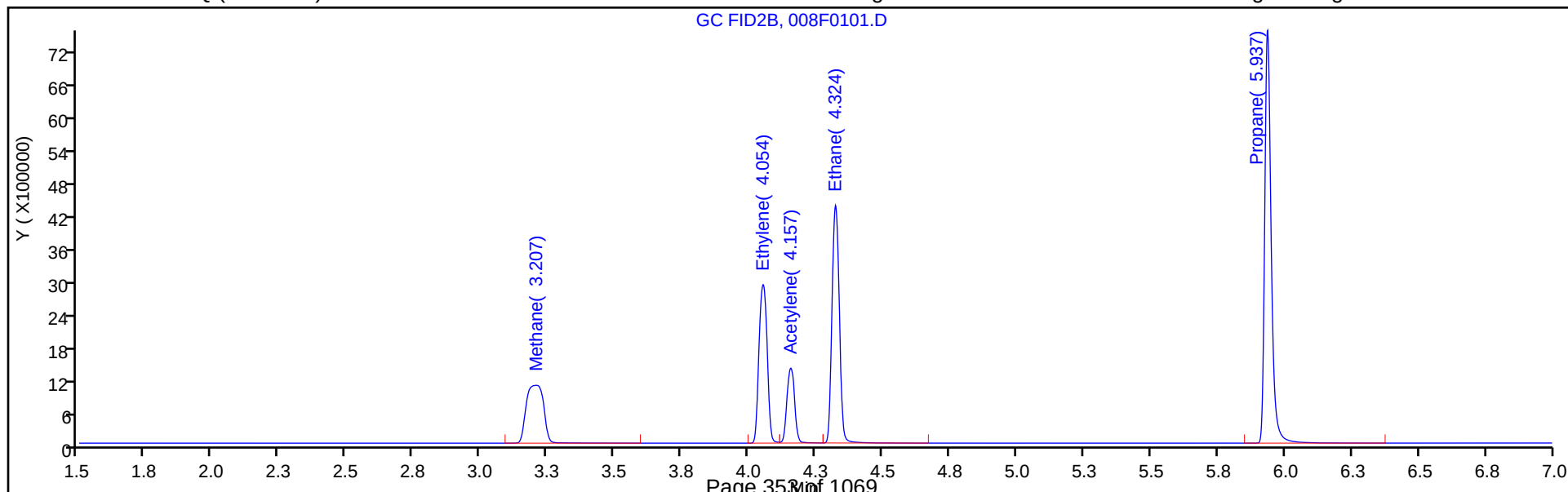
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

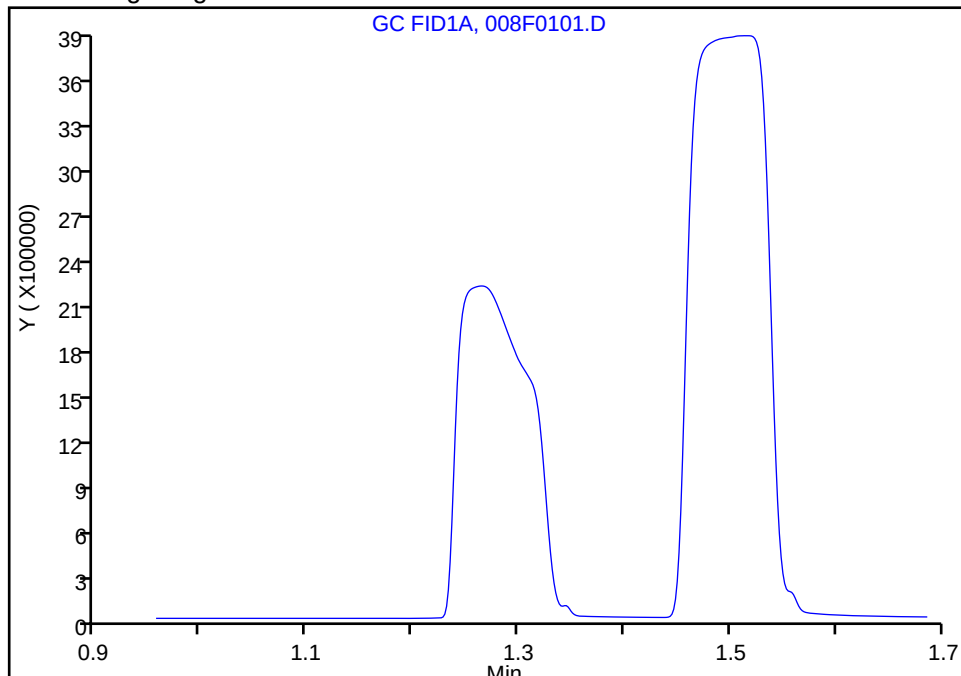
Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\008F0101.D
Injection Date: 03-Jun-2020 14:24:12 Instrument ID: VGC_J
Lims ID: ccv
Client ID:
Operator ID: SCIANNAC ALS Bottle#: 8 Worklist Smp#: 32
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: Rt-Alumina BOND/KCl (0.53 mm) Detector: GC FID1A

2 Methane, CAS: 74-82-8

Signal: 1

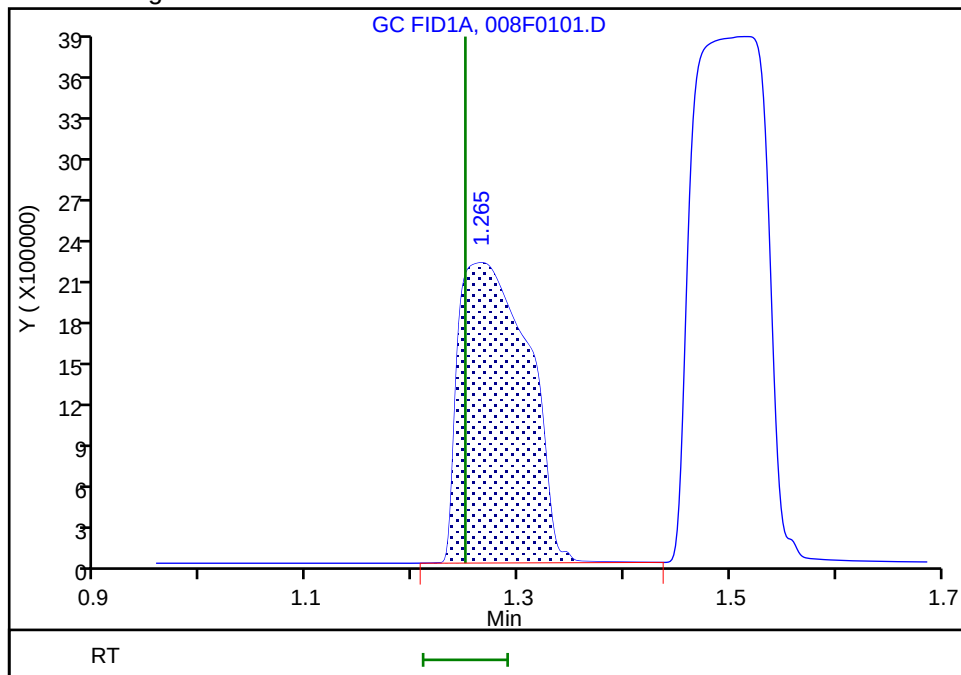
Not Detected
Expected RT: 1.25

Processing Integration Results



RT: 1.27
Area: 10043823
Amount: 69.538753
Amount Units: ug/l

Manual Integration Results



Reviewer: sciannac, 05-Jun-2020 13:11:26
Audit Action: Assigned Compound ID

Audit Reason:

Eurofins TestAmerica, Denver

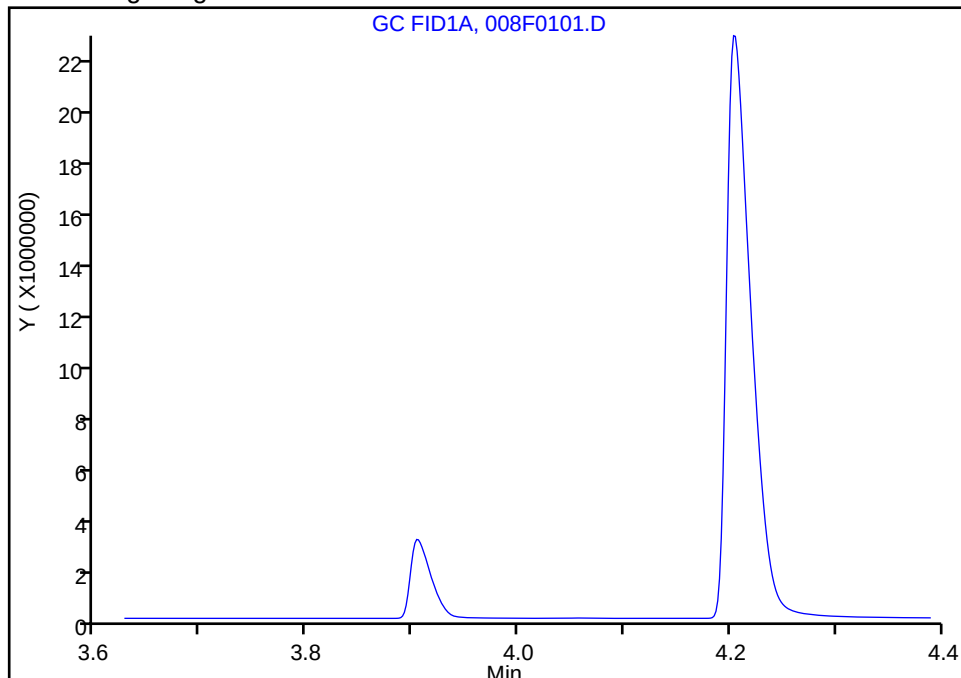
Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\008F0101.D
Injection Date: 03-Jun-2020 14:24:12 Instrument ID: VGC_J
Lims ID: ccv
Client ID:
Operator ID: SCIANNAC ALS Bottle#: 8 Worklist Smp#: 32
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: Rt-Alumina BOND/KCl (0.53 mm) Detector: GC FID1A

6 Acetylene, CAS: 74-86-2

Signal: 1

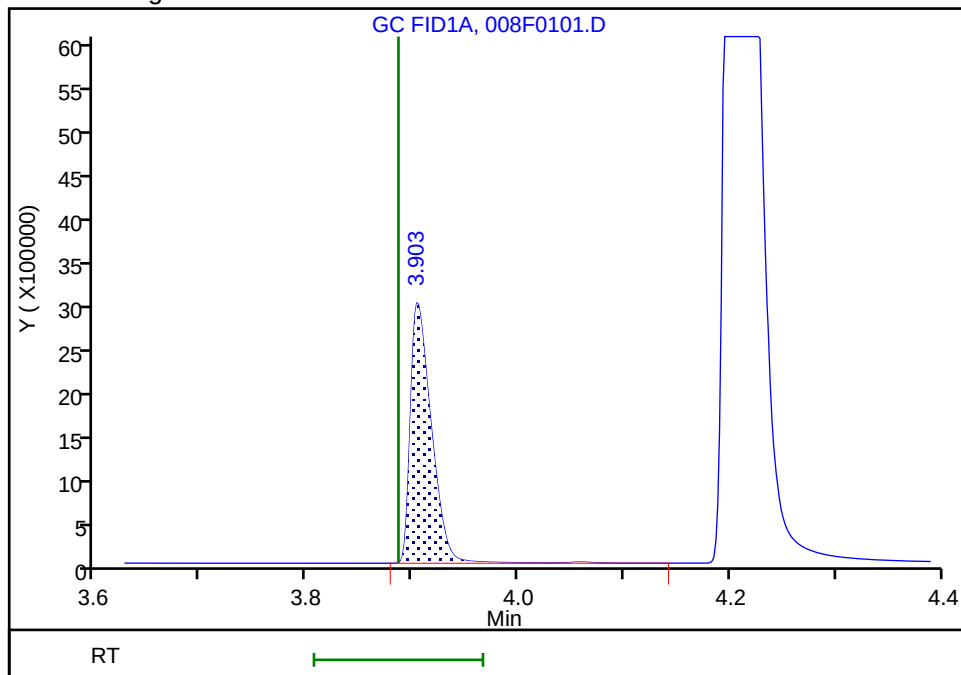
Not Detected
Expected RT: 3.89

Processing Integration Results



RT: 3.90
Area: 4093276
Amount: 119.3574
Amount Units: ug/l

Manual Integration Results



Reviewer: sciannac, 05-Jun-2020 13:12:28

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCV 280-497247/32 Calibration Date: 06/03/2020 14:24
 Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
 GC Column: HP-Plot Q ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
 Lab File ID: 008F0101.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin2		64867		68.9	73.0	-5.6	20.0
Ethylene	Ave	47934	48179		128	128	0.5	20.0
Acetylene	Ave	21605	23033		126	119	6.6	20.0
Ethane	Ave	61056	60079		135	137	-1.6	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-497247/32 Calibration Date: 06/03/2020 14:24
Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
GC Column: HP-Plot Q ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
Lab File ID: 008F0101.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	3.21	3.12	3.20
Ethylene	4.05	3.97	4.07
Acetylene	4.16	4.05	4.21
Ethane	4.32	4.25	4.35

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\008F0101.D
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 03-Jun-2020 14:24:12 ALS Bottle#: 8 Worklist Smp#: 32
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 05-Jun-2020 13:56:29 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1025

First Level Reviewer: sciannac

Date: 05-Jun-2020 13:21:16

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	--------------	------------------	------------------	----------	-----------------	-------------------	-------

2 Methane

1	1.265	1.250	0.015	10043823	73.0	69.5	a
2	3.207	3.161	0.046	4735482	73.0	68.9	a
RPD = 0.88							

3 Ethane

1	1.513	1.500	0.013	18569762	136.9	136.5	
2	4.324	4.296	0.028	8222205	136.9	134.7	
RPD = 1.35							

4 Ethylene

1	1.778	1.758	0.020	14101290	127.7	127.9	Ma
2	4.054	4.023	0.031	6150860	127.7	128.3	M
RPD = 0.29							

5 Propane

1	2.465	2.433	0.032	28699904	200.7	200.3	
2	5.937	5.918	0.019	12655080	200.7	202.1	
RPD = 0.85							

6 Acetylene

1	3.903	3.886	0.017	4093276	118.5	119.4	a
2	4.157	4.128	0.029	2729892	118.5	126.4	M
RPD = 5.69							

7 Butane

1	0.000	4.181	-4.181	0	264.5	0	a
2	7.377	7.363	0.014	17122293	264.5	268.5	
RPD = 200.00							

8 isobutylene

1	5.100	5.083	0.017	23789251	255.4	266.5	M
2	7.230	7.216	0.014	10696753	255.4	257.4	M
RPD = 3.48							

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031

Amount Added: 200.00

Units: uL

Report Date: 05-Jun-2020 13:56:30

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\008F0101.D

Injection Date: 03-Jun-2020 14:24:12

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: ccv

Worklist Smp#: 32

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

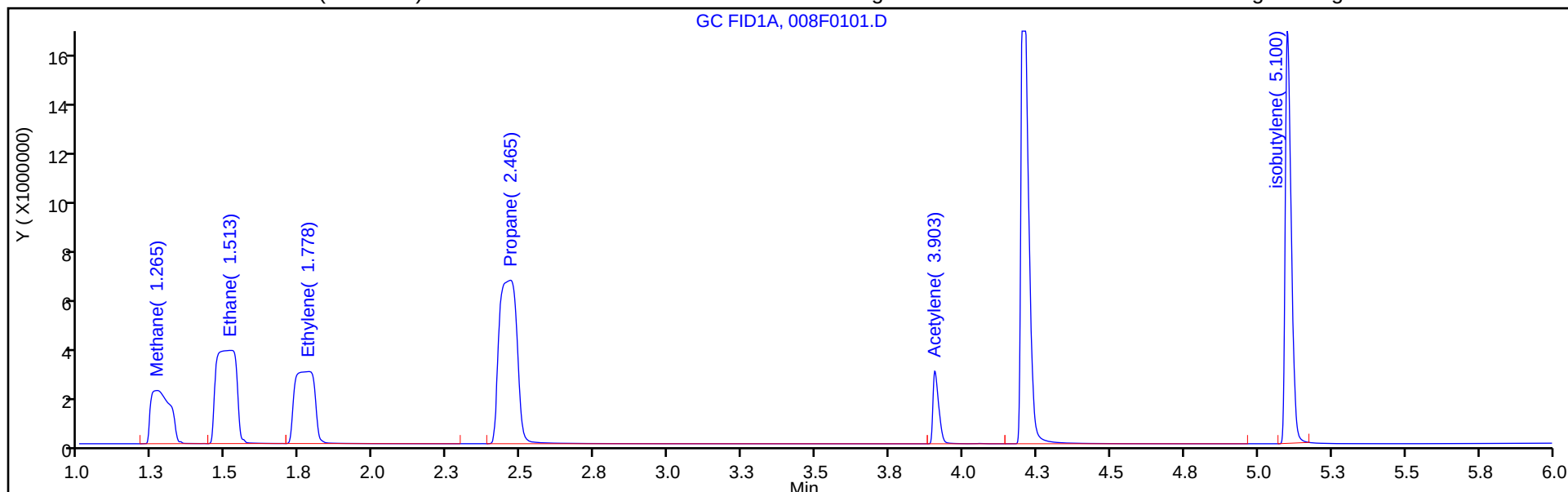
ALS Bottle#: 8

Method: RSK_J

Limit Group: GCV - RSK 175

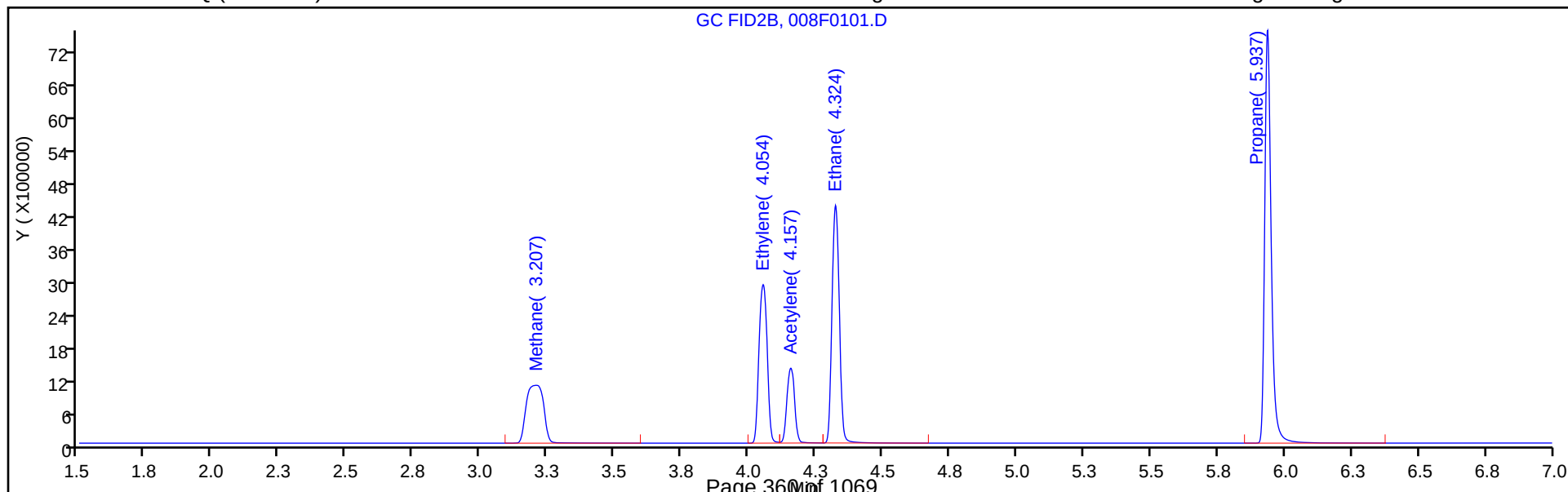
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

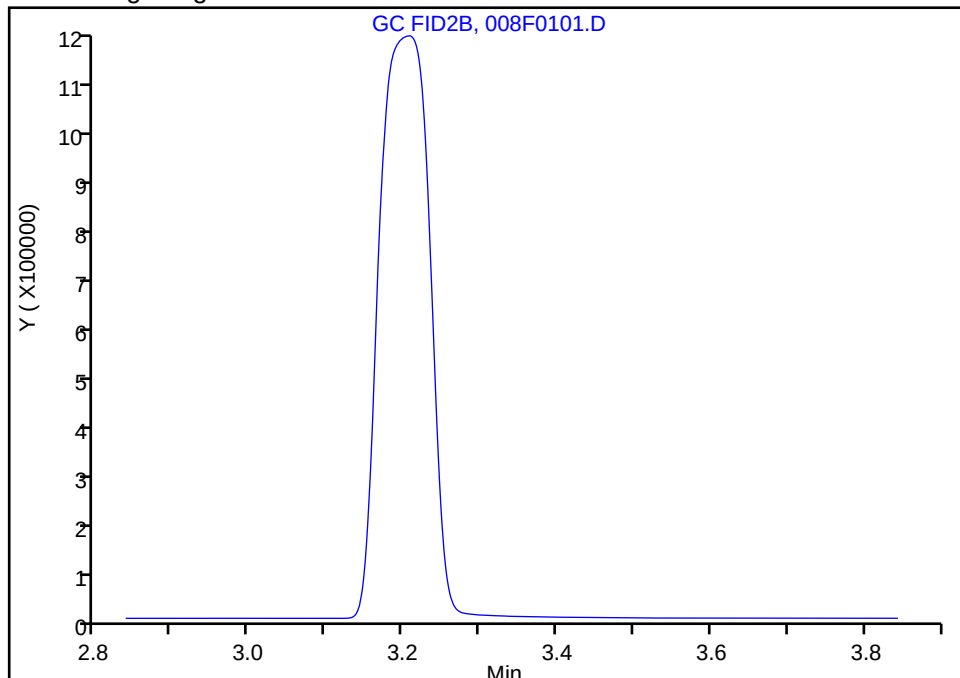
Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\008F0101.D
Injection Date: 03-Jun-2020 14:24:12 Instrument ID: VGC_J
Lims ID: ccv
Client ID:
Operator ID: SCIANNAC ALS Bottle#: 8 Worklist Smp#: 32
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: HP-PLOT/Q (0.53 mm) Detector: GC FID2B

2 Methane, CAS: 74-82-8

Signal: 2

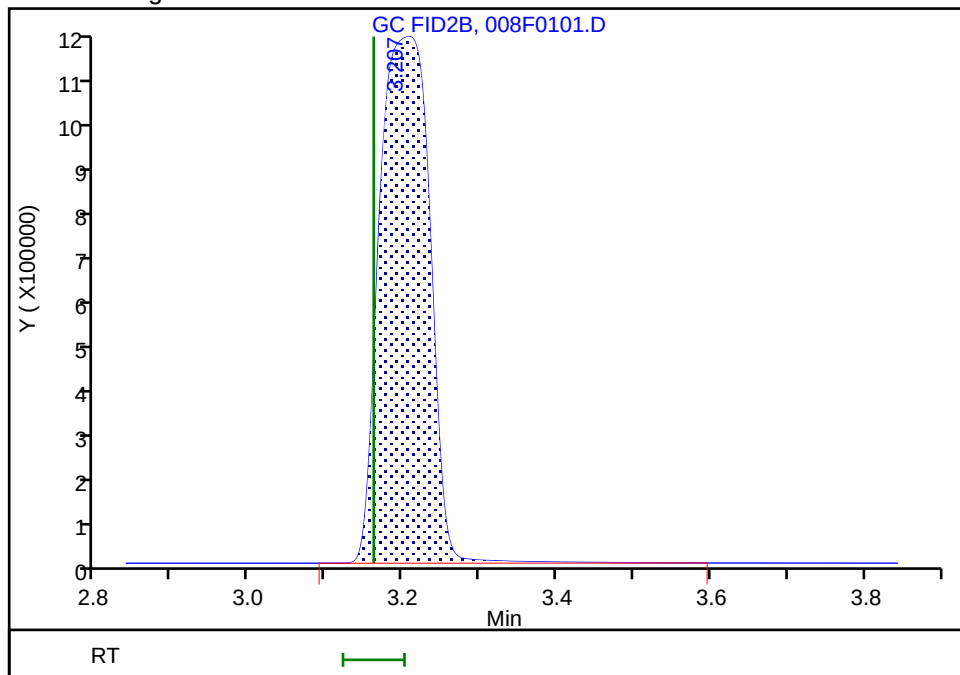
Not Detected
Expected RT: 3.16

Processing Integration Results



RT: 3.21
Area: 4735482
Amount: 68.930694
Amount Units: ug/l

Manual Integration Results



Reviewer: sciannac, 05-Jun-2020 13:11:34

Audit Action: Assigned Compound ID

Audit Reason:

Eurofins TestAmerica, Denver

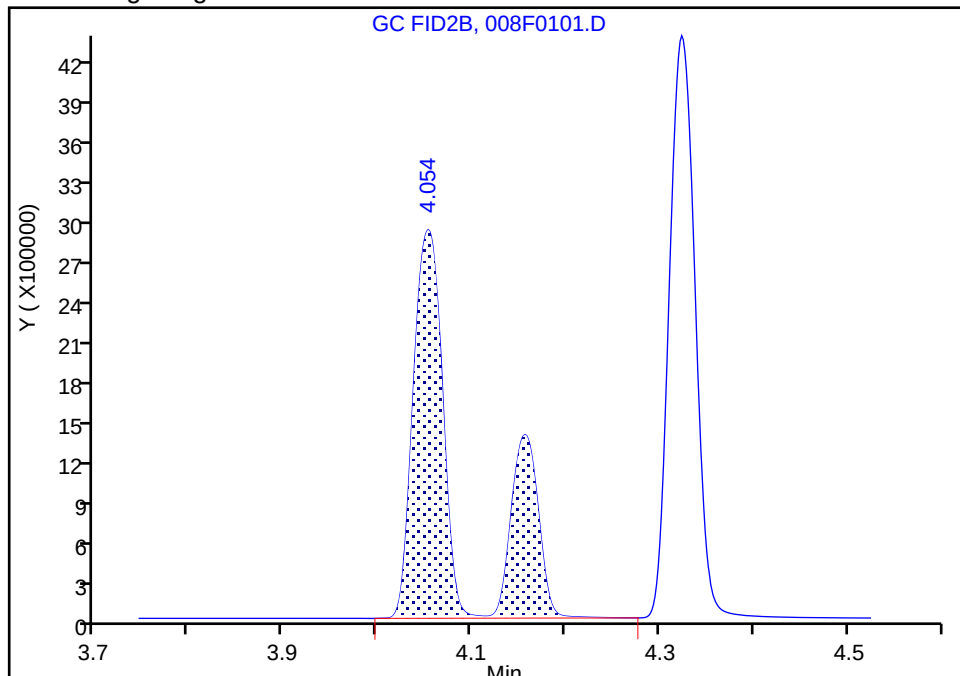
Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\008F0101.D
Injection Date: 03-Jun-2020 14:24:12 Instrument ID: VGC_J
Lims ID: ccv
Client ID:
Operator ID: SCIANNAC ALS Bottle#: 8 Worklist Smp#: 32
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: HP-PLOT/Q (0.53 mm) Detector: GC FID2B

4 Ethylene, CAS: 74-85-1

Signal: 2

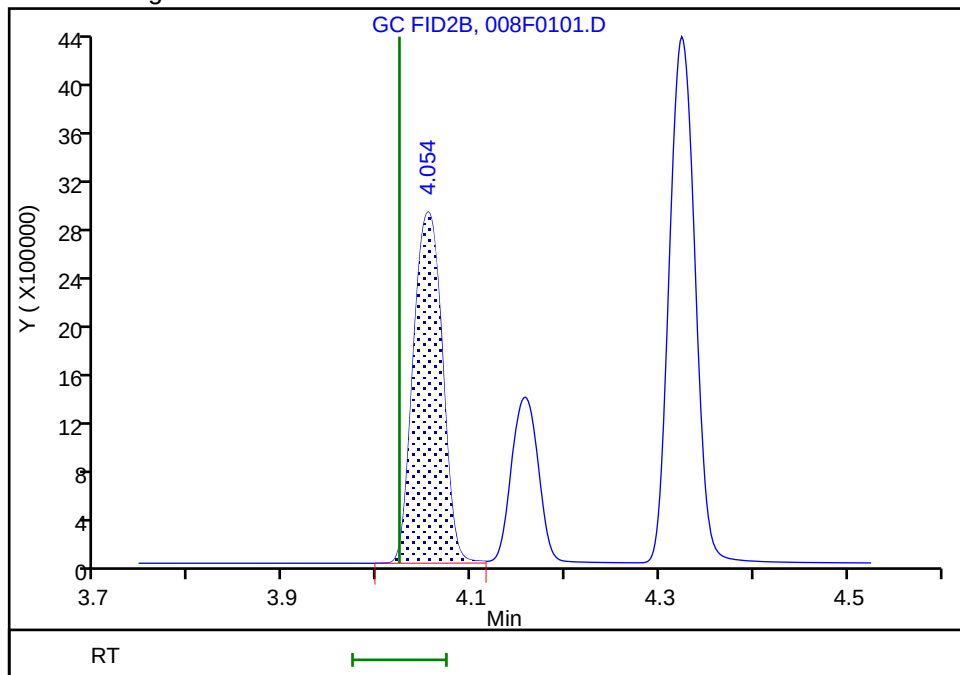
RT: 4.05
Area: 8880779
Amount: 185.2721
Amount Units: ug/l

Processing Integration Results



RT: 4.05
Area: 6150860
Amount: 128.3202
Amount Units: ug/l

Manual Integration Results



Reviewer: sciannac, 05-Jun-2020 13:12:12

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\008F0101.D
Injection Date: 03-Jun-2020 14:24:12 Instrument ID: VGC_J
Lims ID: ccv
Client ID:
Operator ID: SCIANNAC
Purge Vol: 18.000 mL
Method: RSK_J
Column: HP-PLOT/Q (0.53 mm)

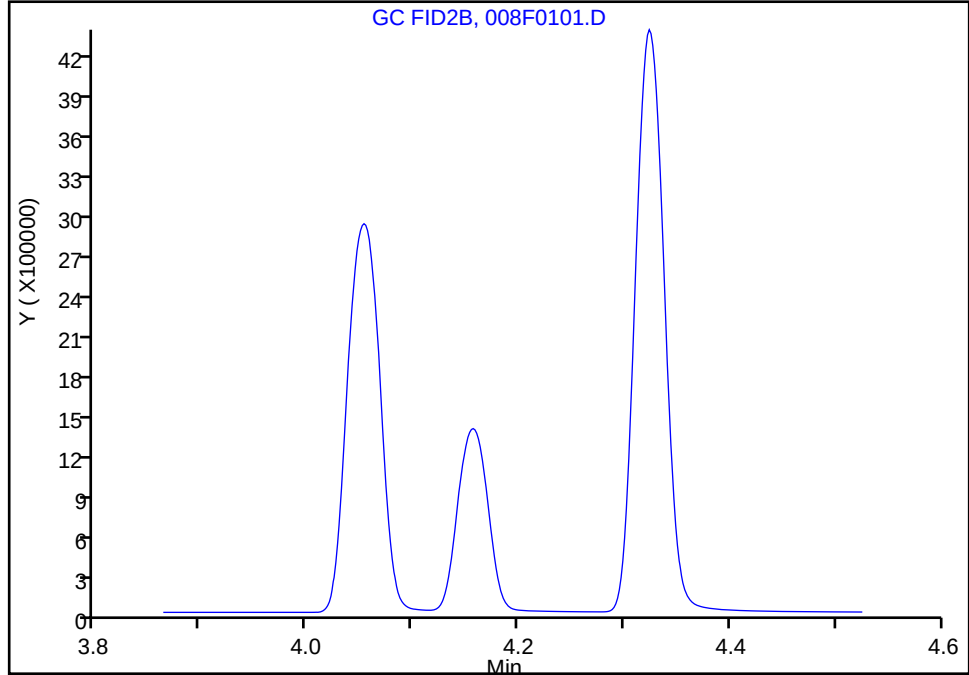
ALS Bottle#: 8 Worklist Smp#: 32
Dil. Factor: 1.0000
Limit Group: GCV - RSK 175
Detector: GC FID2B

6 Acetylene, CAS: 74-86-2

Signal: 2

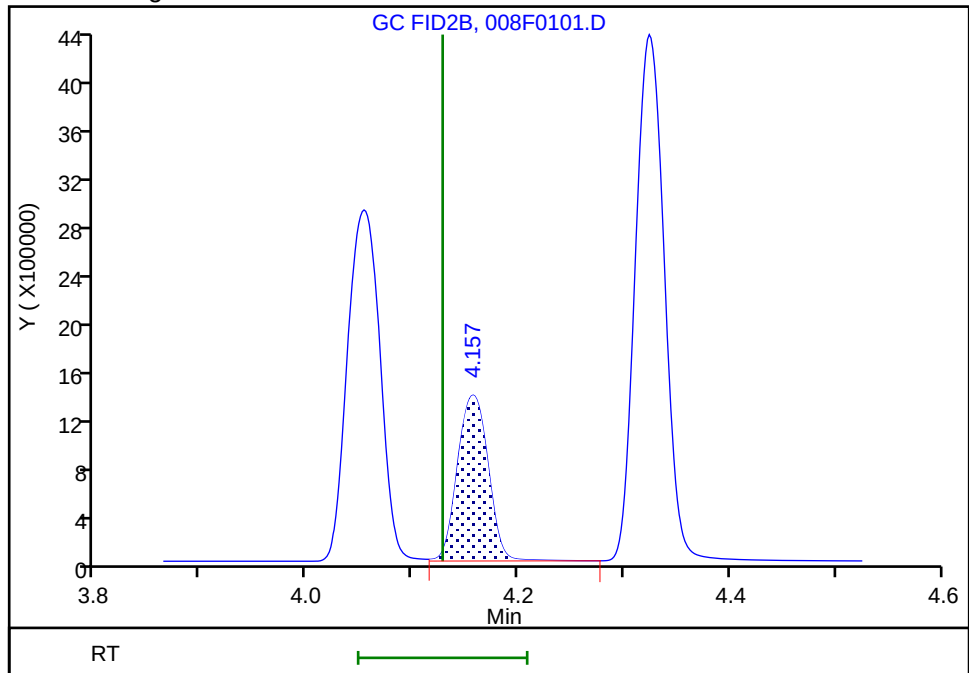
Not Detected
Expected RT: 4.13

Processing Integration Results



RT: 4.16
Area: 2729892
Amount: 126.3517
Amount Units: ug/l

Manual Integration Results



Reviewer: sciannac, 05-Jun-2020 13:12:26

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCV 280-497247/21 Calibration Date: 06/03/2020 19:01
 Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
 GC Column: Rt-Alumina KCl ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
 Lab File ID: 025F1801.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin2		135447		68.5	73.0	-6.2	20.0
Ethane	Ave	136043	133782		135	137	-1.7	20.0
Ethylene	Ave	110213	108988		126	128	-1.1	20.0
Acetylene	Ave	34294	34737		120	119	1.3	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-497247/21 Calibration Date: 06/03/2020 19:01
Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
GC Column: Rt-Alumina KCl ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
Lab File ID: 025F1801.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.25	1.21	1.29
Ethane	1.50	1.45	1.55
Ethylene	1.77	1.71	1.81
Acetylene	3.90	3.81	3.97

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\025F1801.D
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 03-Jun-2020 19:01:24 ALS Bottle#: 25 Worklist Smp#: 21
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 05-Jun-2020 13:56:38 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1025

First Level Reviewer: sciannac

Date: 05-Jun-2020 13:50:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.252	1.250	0.002	9888086	73.0	68.5	
2	3.171	3.161	0.010	4719551	73.0	68.7	
RPD = 0.35							

3 Ethane

1	1.504	1.500	0.004	18308840	136.9	134.6	
2	4.301	4.296	0.005	8209089	136.9	134.5	
RPD = 0.10							

4 Ethylene

1	1.767	1.758	0.009	13914165	127.7	126.2	a
2	0.000	4.023	-4.023	0	127.7	0	
RPD = 200.00							

5 Propane

1	2.449	2.433	0.016	28172712	200.7	196.7	
2	5.924	5.918	0.006	12577133	200.7	200.8	
RPD = 2.09							

6 Acetylene

1	3.904	3.886	0.018	4117122	118.5	120.1	Ma
2	4.134	4.128	0.006	2680144	118.5	124.0	M
RPD = 3.27							

7 Butane

1	4.197	4.181	0.016	34756081	264.5	263.5	
2	7.368	7.363	0.005	16782436	264.5	263.2	
RPD = 0.13							

8 isobutylene

1	5.097	5.083	0.014	23601880	255.4	264.4	
2	7.219	7.216	0.003	11029701	255.4	265.4	
RPD = 0.38							

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031

Amount Added: 200.00

Units: uL

Report Date: 05-Jun-2020 13:56:38

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\025F1801.D

Injection Date: 03-Jun-2020 19:01:24

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: ccv

Worklist Smp#: 21

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

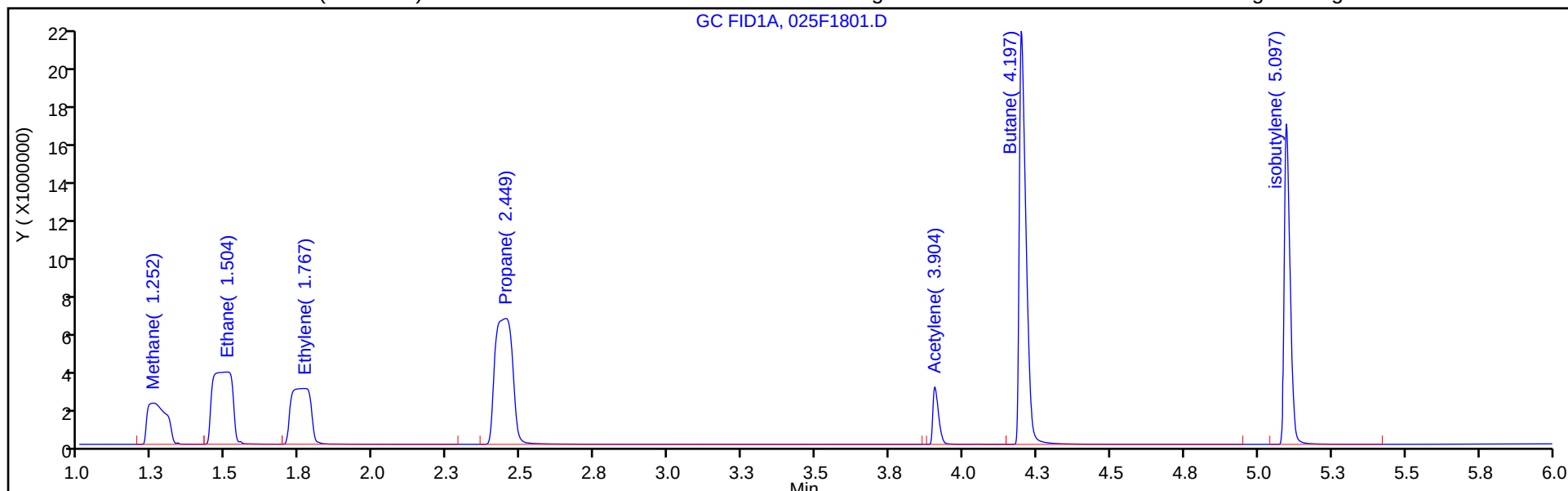
ALS Bottle#: 25

Method: RSK_J

Limit Group: GCV - RSK 175

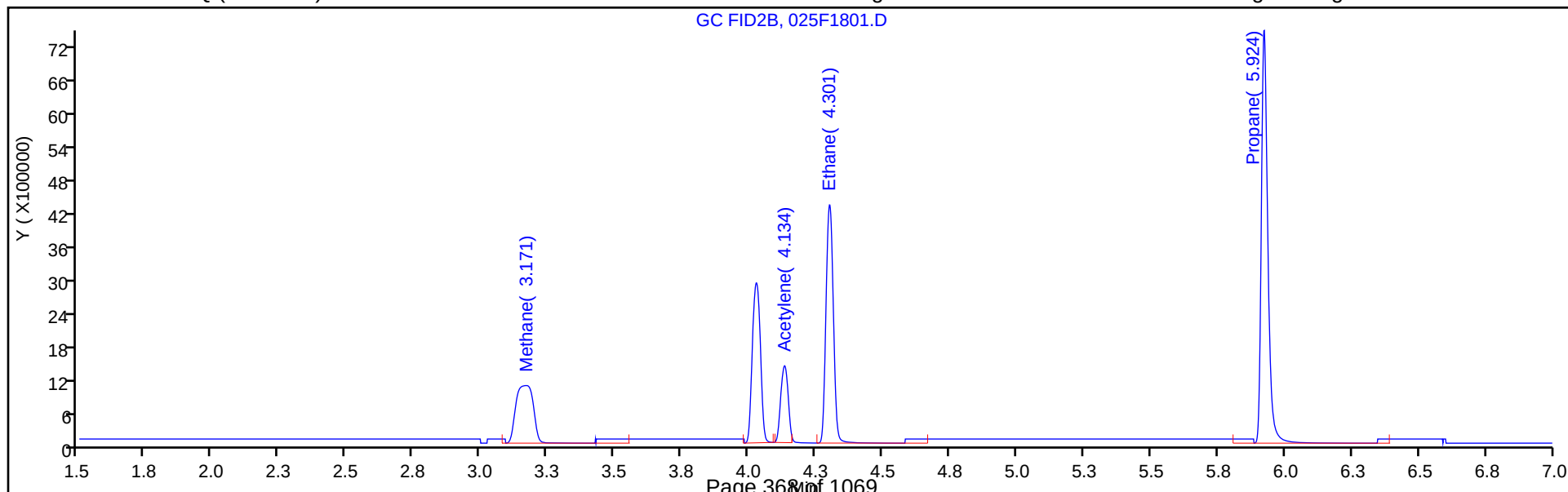
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

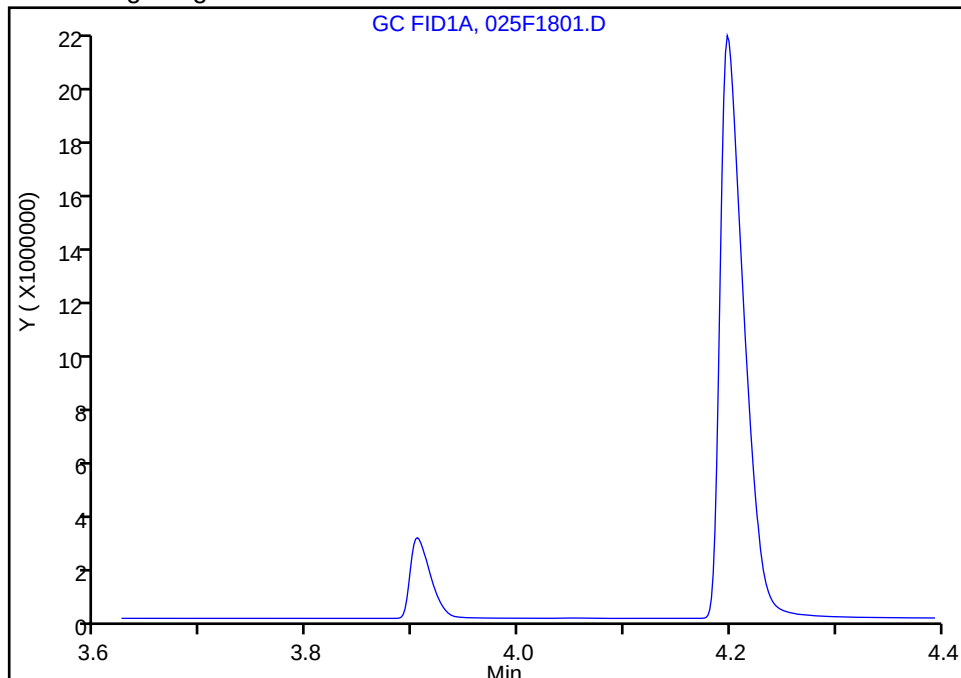
Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\025F1801.D
Injection Date: 03-Jun-2020 19:01:24 Instrument ID: VGC_J
Lims ID: ccv
Client ID:
Operator ID: SCIANNAC ALS Bottle#: 25 Worklist Smp#: 21
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: Rt-Alumina BOND/KCl (0.53 mm) Detector GC FID1A

6 Acetylene, CAS: 74-86-2

Signal: 1

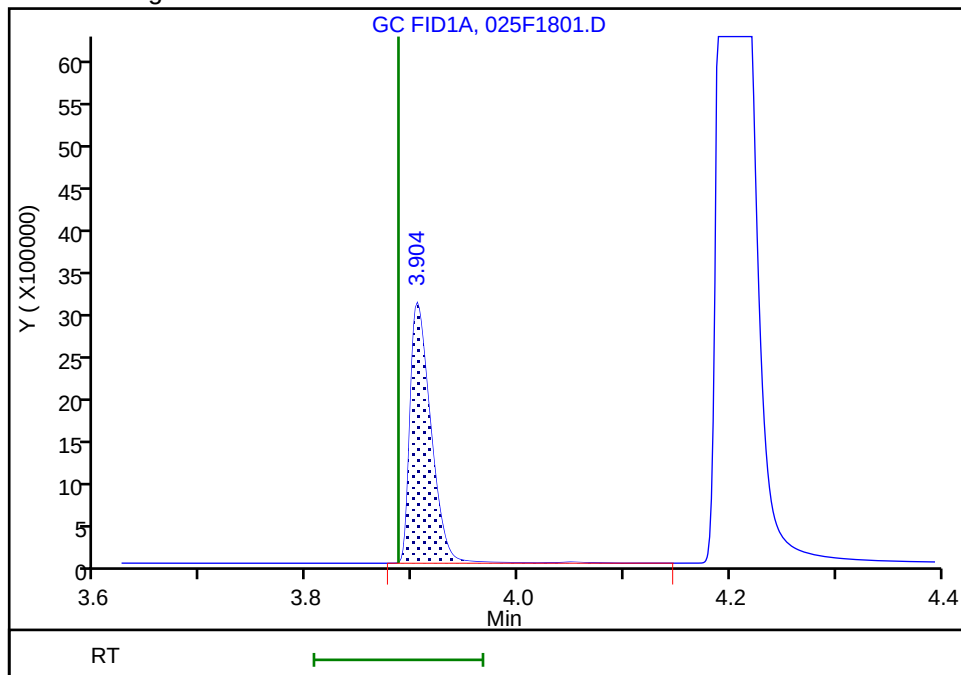
Not Detected
Expected RT: 3.89

Processing Integration Results



RT: 3.90
Area: 4117122
Amount: 120.0528
Amount Units: ug/l

Manual Integration Results



Reviewer: sciannac, 05-Jun-2020 13:49:26

Audit Action: Assigned Compound ID

Audit Reason: Peak not integrated

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCV 280-497247/21 Calibration Date: 06/03/2020 19:01
 Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
 GC Column: HP-Plot Q ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
 Lab File ID: 025F1801.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene	Ave	47934	47820		1.40	128	-0.2	20.0
Methane	Lin2		64648		68.7	73.0	-5.9	20.0
Acetylene	Ave	21605	22613		124	119	4.7	20.0
Ethane	Ave	61056	59984		134	137	-1.8	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-497247/21 Calibration Date: 06/03/2020 19:01
Instrument ID: VGC_J Calib Start Date: 05/16/2020 10:57
GC Column: HP-Plot Q ID: 0.53 (mm) Calib End Date: 05/16/2020 13:08
Lab File ID: 025F1801.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene	0.00	3.97	4.07
Methane	3.17	3.12	3.20
Acetylene	4.13	4.05	4.21
Ethane	4.30	4.25	4.35

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\025F1801.D
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 03-Jun-2020 19:01:24 ALS Bottle#: 25 Worklist Smp#: 21
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Sublist: chrom-RSK_J*sub5
 Method: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 05-Jun-2020 13:56:38 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1025

First Level Reviewer: sciannac

Date: 05-Jun-2020 13:50:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	--------------	------------------	------------------	----------	-----------------	-------------------	-------

2 Methane

1	1.252	1.250	0.002	9888086	73.0	68.5	
2	3.171	3.161	0.010	4719551	73.0	68.7	
RPD = 0.35							

3 Ethane

1	1.504	1.500	0.004	18308840	136.9	134.6	
2	4.301	4.296	0.005	8209089	136.9	134.5	
RPD = 0.10							

4 Ethylene

1	1.767	1.758	0.009	13914165	127.7	126.2	a
2	0.000	4.023	-4.023	0	127.7	0	
RPD = 200.00							

5 Propane

1	2.449	2.433	0.016	28172712	200.7	196.7	
2	5.924	5.918	0.006	12577133	200.7	200.8	
RPD = 2.09							

6 Acetylene

1	3.904	3.886	0.018	4117122	118.5	120.1	Ma
2	4.134	4.128	0.006	2680144	118.5	124.0	M
RPD = 3.27							

7 Butane

1	4.197	4.181	0.016	34756081	264.5	263.5	
2	7.368	7.363	0.005	16782436	264.5	263.2	
RPD = 0.13							

8 isobutylene

1	5.097	5.083	0.014	23601880	255.4	264.4	
2	7.219	7.216	0.003	11029701	255.4	265.4	
RPD = 0.38							

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031

Amount Added: 200.00

Units: uL

Report Date: 05-Jun-2020 13:56:38

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\025F1801.D

Injection Date: 03-Jun-2020 19:01:24

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: ccv

Worklist Smp#: 21

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

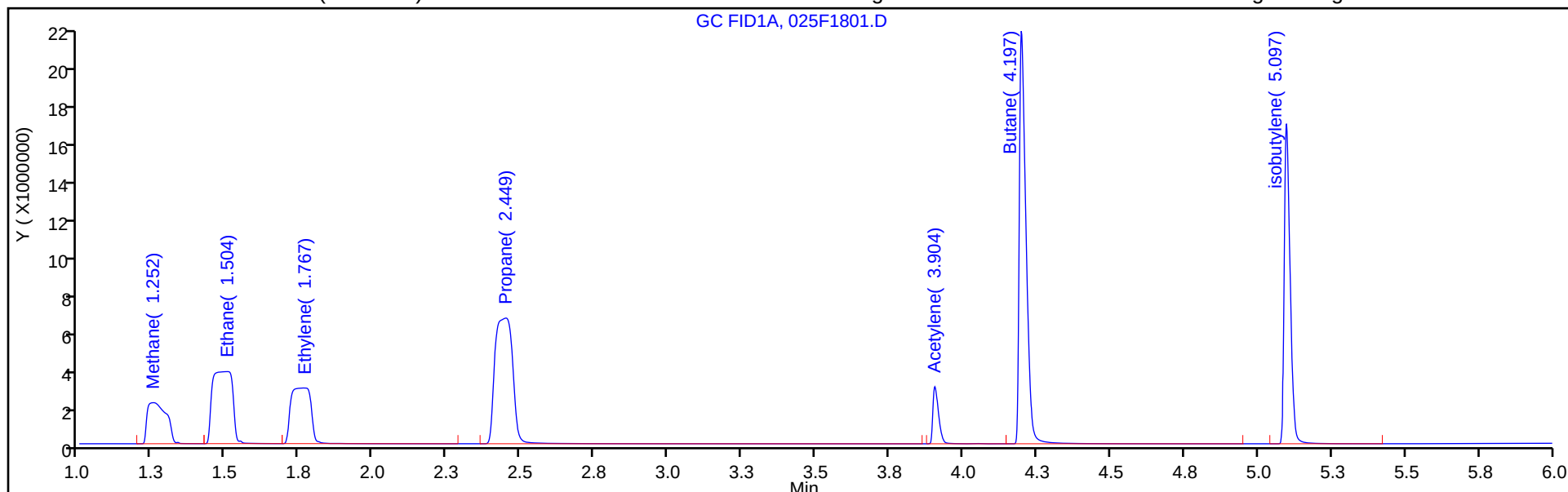
ALS Bottle#: 25

Method: RSK_J

Limit Group: GCV - RSK 175

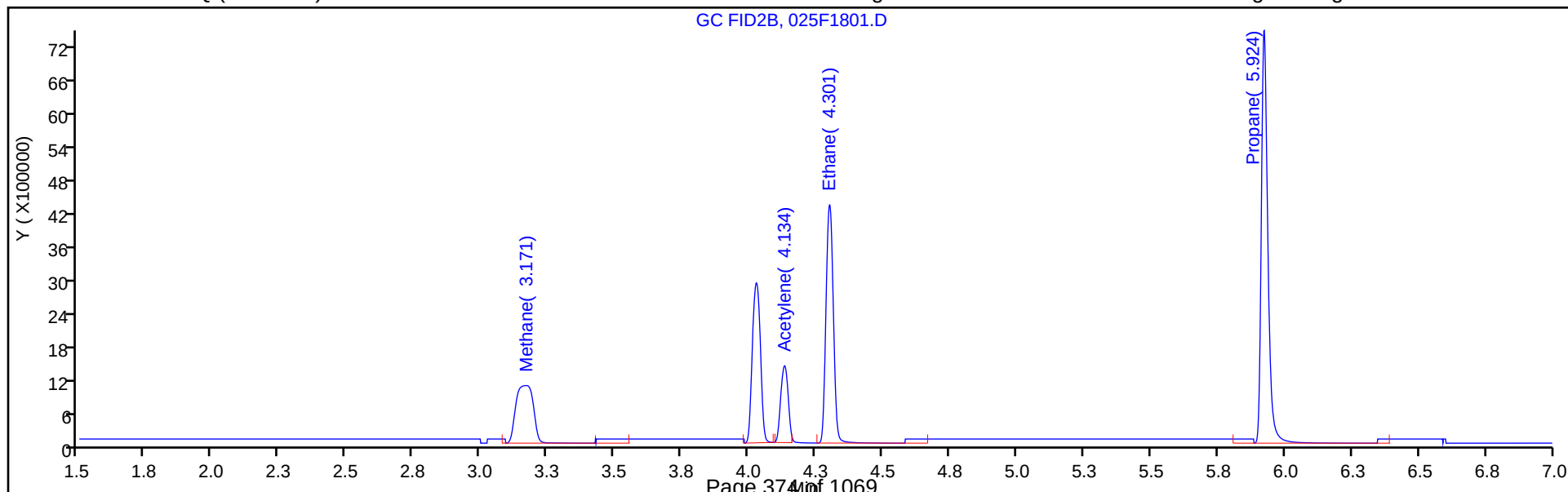
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

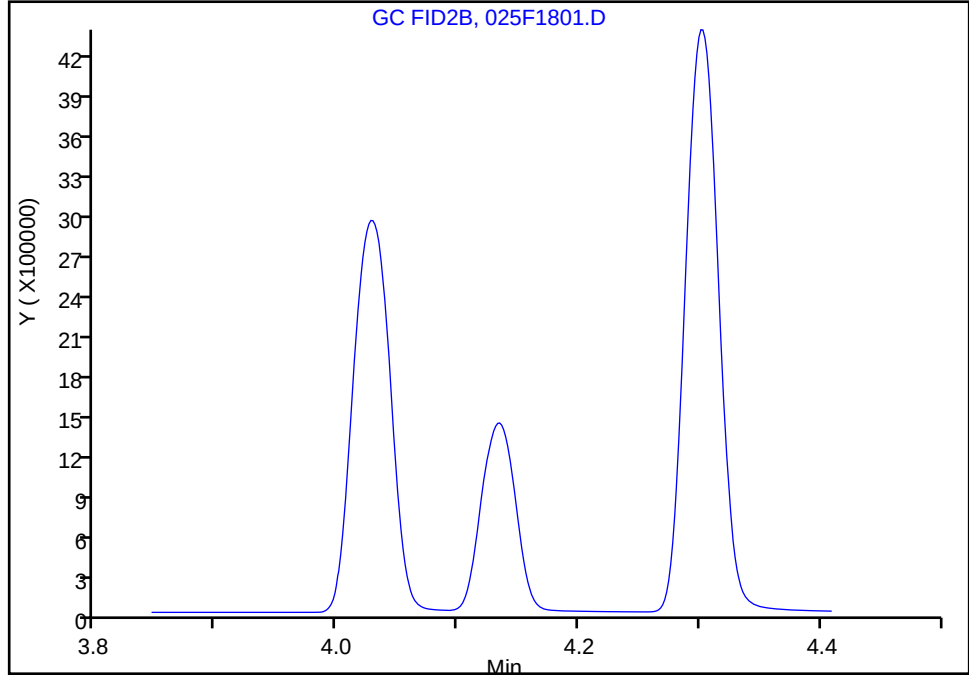
Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\025F1801.D
Injection Date: 03-Jun-2020 19:01:24 Instrument ID: VGC_J
Lims ID: ccv
Client ID:
Operator ID: SCIANNAC ALS Bottle#: 25 Worklist Smp#: 21
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: HP-PLOT/Q (0.53 mm) Detector: GC FID2B

6 Acetylene, CAS: 74-86-2

Signal: 2

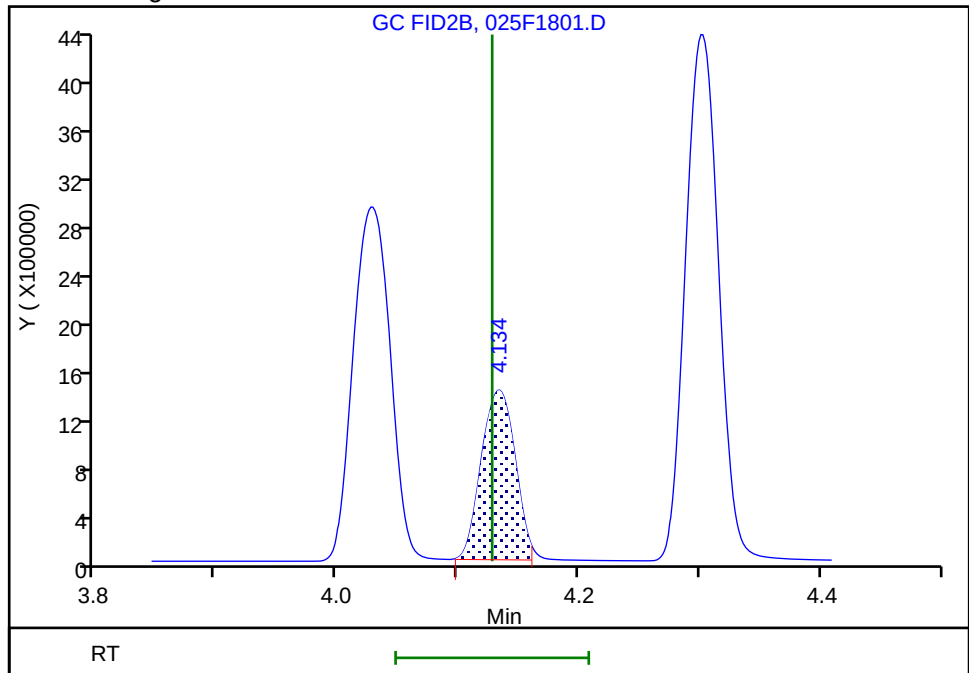
Not Detected
Expected RT: 4.13

Processing Integration Results



RT: 4.13
Area: 2680144
Amount: 124.0492
Amount Units: ug/l

Manual Integration Results



Reviewer: sciannac, 05-Jun-2020 13:50:29
Audit Action: Assigned New Baseline

Audit Reason: Peak not integrated

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 280-496925/7
Matrix: Water Lab File ID: 007F0701.D
Analysis Method: RSK-175 Date Collected: _____
Sample wt/vol: 18 (mL) Date Analyzed: 06/01/2020 14:02
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: HP-Plot Q ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 496925 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.0020	U	0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\007F0701.D
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 01-Jun-2020 14:02:52 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Method: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 02-Jun-2020 08:26:37 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1: Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2: HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 1 1,1,1-Trifluoroethane

1	4.098	ND
2	5.458	

2 Methane

1	1.253	ND
2	3.170	

3 Ethane

1	1.503	ND
2	4.302	

4 Ethylene

1	1.758	ND
2	4.028	

5 Propane

1	2.423	ND
2	5.923	

6 Acetylene

1	3.865	ND
2	4.133	

7 Butane

1	4.166	ND
2	7.367	

8 isobutylene

1	5.065	ND
2	7.218	

Report Date: 02-Jun-2020 08:27:24

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\007F0701.D

Injection Date: 01-Jun-2020 14:02:52

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: mb

Worklist Smp#: 7

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

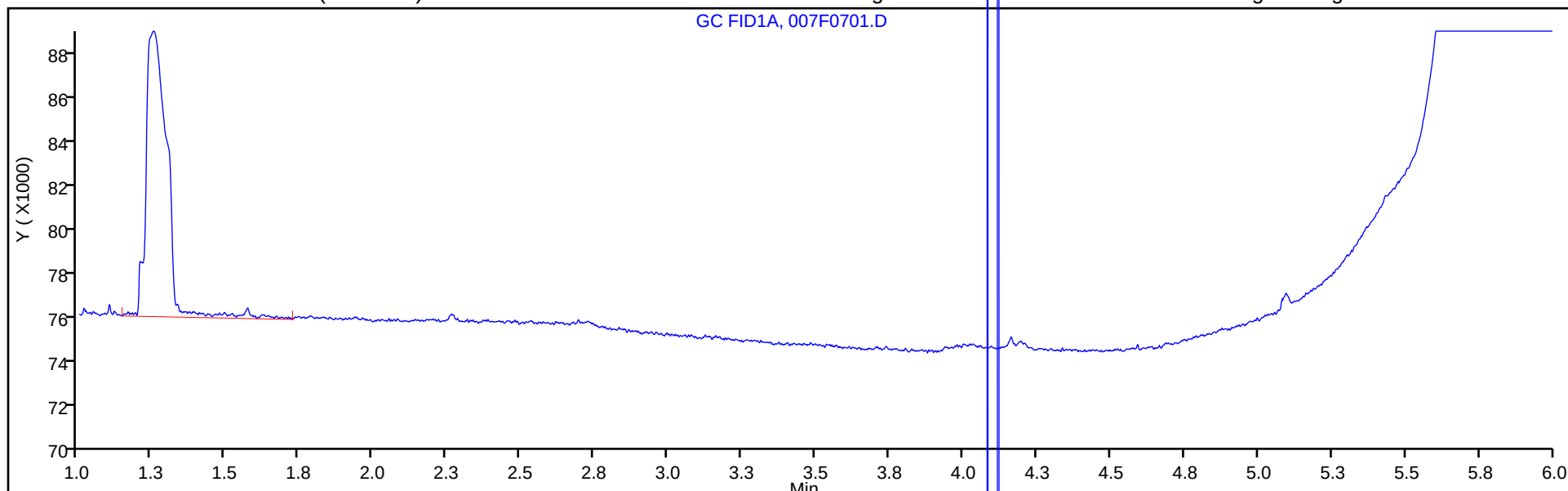
ALS Bottle#: 7

Method: RSK_J

Limit Group: GCV - RSK 175

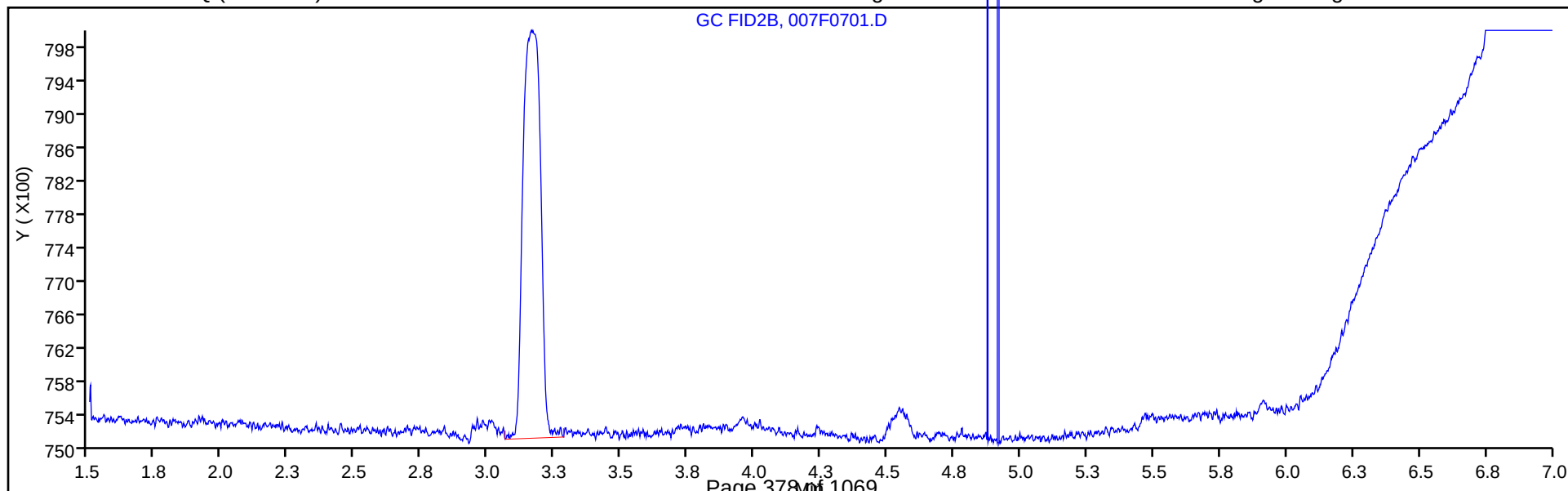
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 280-497247/7
Matrix: Water Lab File ID: 007F0701.D
Analysis Method: RSK-175 Date Collected: _____
Sample wt/vol: 18 (mL) Date Analyzed: 06/03/2020 11:52
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: HP-Plot Q ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 497247 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.0020	U	0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\007F0701.D
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 03-Jun-2020 11:52:57 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Method: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 05-Jun-2020 13:56:27 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1: Rt-Alumina BOND/KCI (0.53 mm) Det: GC FID1A
 Column 2: HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1025

First Level Reviewer: sciannac

Date: 03-Jun-2020 12:44:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 1 1,1,1-Trifluoroethane

1	4.098	ND
2	5.458	

2 Methane

1	1.250	ND
2	3.161	

3 Ethane

1	1.500	ND
2	4.296	

4 Ethylene

1	1.758	ND
2	4.023	

5 Propane

1	2.433	ND
2	5.918	

6 Acetylene

1	3.886	ND
2	4.128	

7 Butane

1	4.181	ND
2	7.363	

8 isobutylene

1	5.083	ND
2	7.216	

Report Date: 05-Jun-2020 13:56:29

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\007F0701.D

Injection Date: 03-Jun-2020 11:52:57

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: mb

Worklist Smp#: 7

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

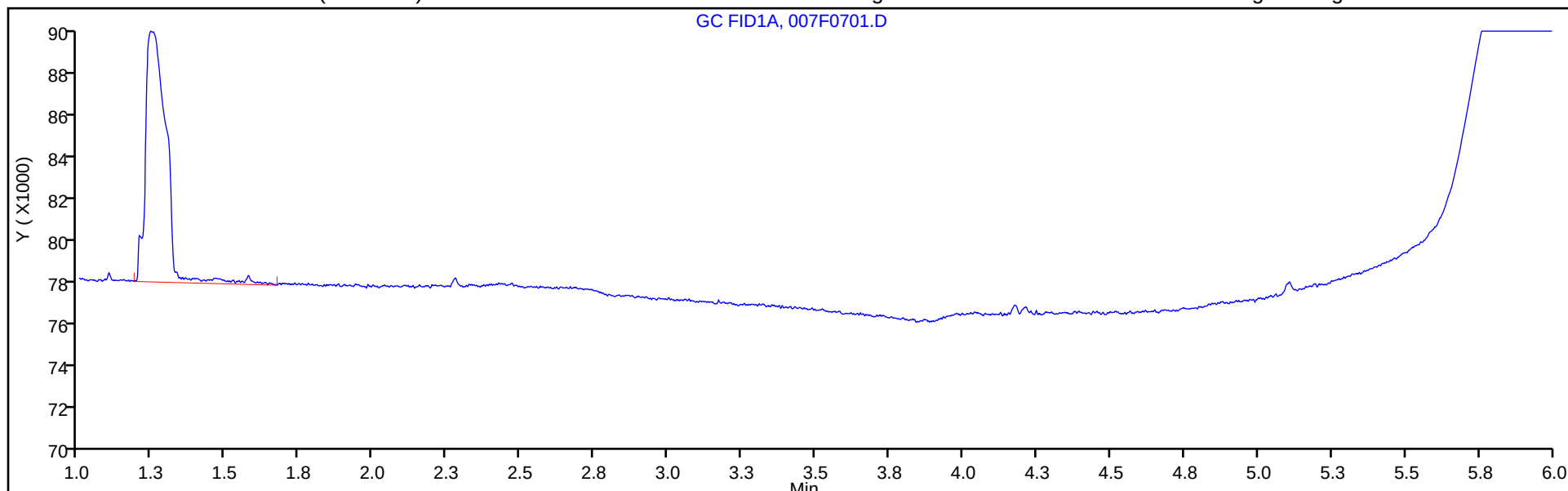
ALS Bottle#: 7

Method: RSK_J

Limit Group: GCV - RSK 175

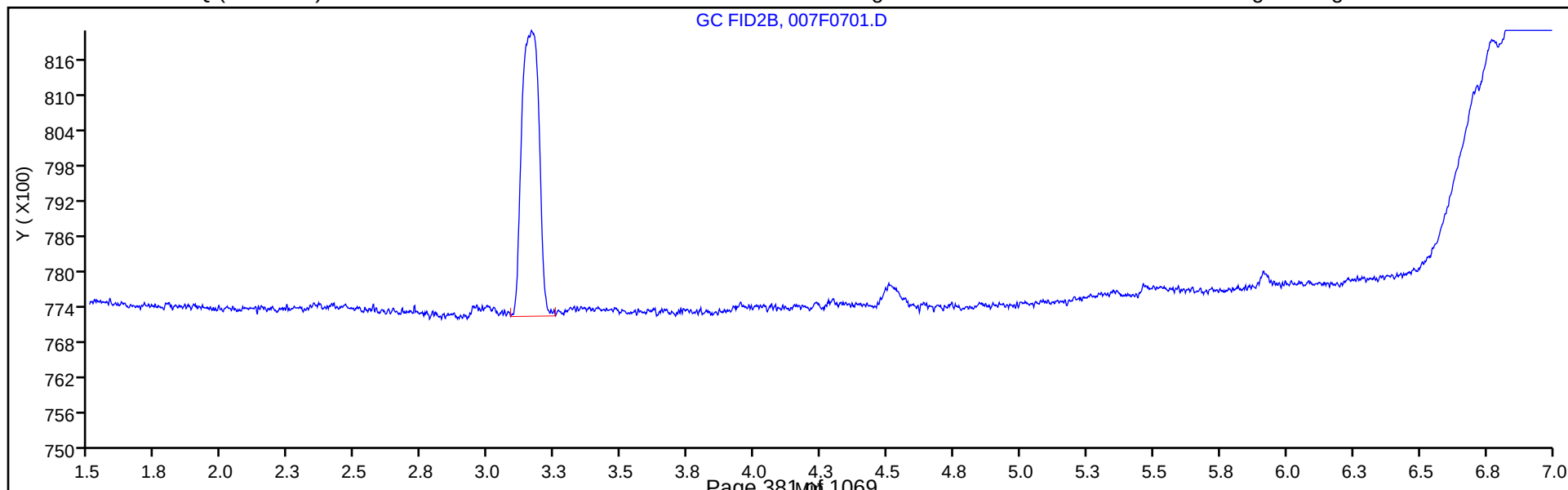
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 280-497247/34
Matrix: Water Lab File ID: 011F0401.D
Analysis Method: RSK-175 Date Collected: _____
Sample wt/vol: 18 (mL) Date Analyzed: 06/03/2020 15:12
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: HP-Plot Q ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 497247 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.0020	U	0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\011F0401.D
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 03-Jun-2020 15:12:58 ALS Bottle#: 11 Worklist Smp#: 34
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Method: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 05-Jun-2020 14:14:44 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1: Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2: HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1025

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 1 1,1,1-Trifluoroethane

1	4.098	ND
2	5.458	

2 Methane

1	1.250	ND
2	3.161	

3 Ethane

1	1.500	ND
2	4.296	

4 Ethylene

1	1.758	ND
2	4.023	

5 Propane

1	2.433	ND
2	5.918	

6 Acetylene

1	3.886	ND
2	4.128	

7 Butane

1	4.181	ND
2	7.363	

8 isobutylene

1	5.083	ND
2	7.216	

Report Date: 05-Jun-2020 14:14:44

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\011F0401.D

Injection Date: 03-Jun-2020 15:12:58

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: mb

Worklist Smp#: 34

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

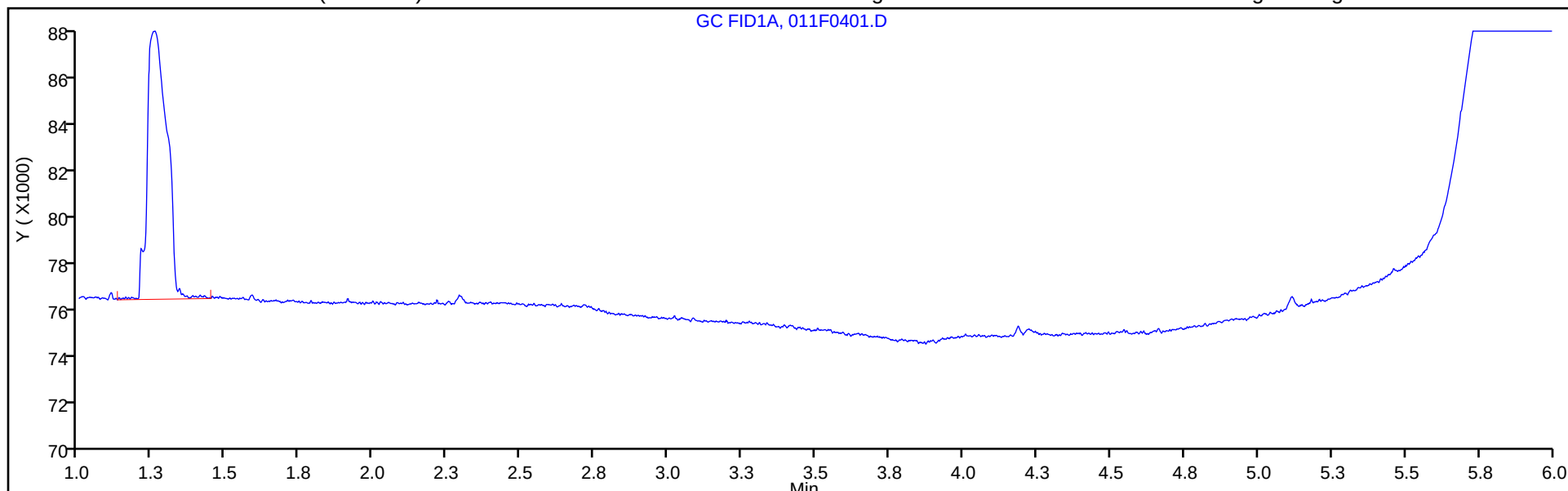
ALS Bottle#: 11

Method: RSK_J

Limit Group: GCV - RSK 175

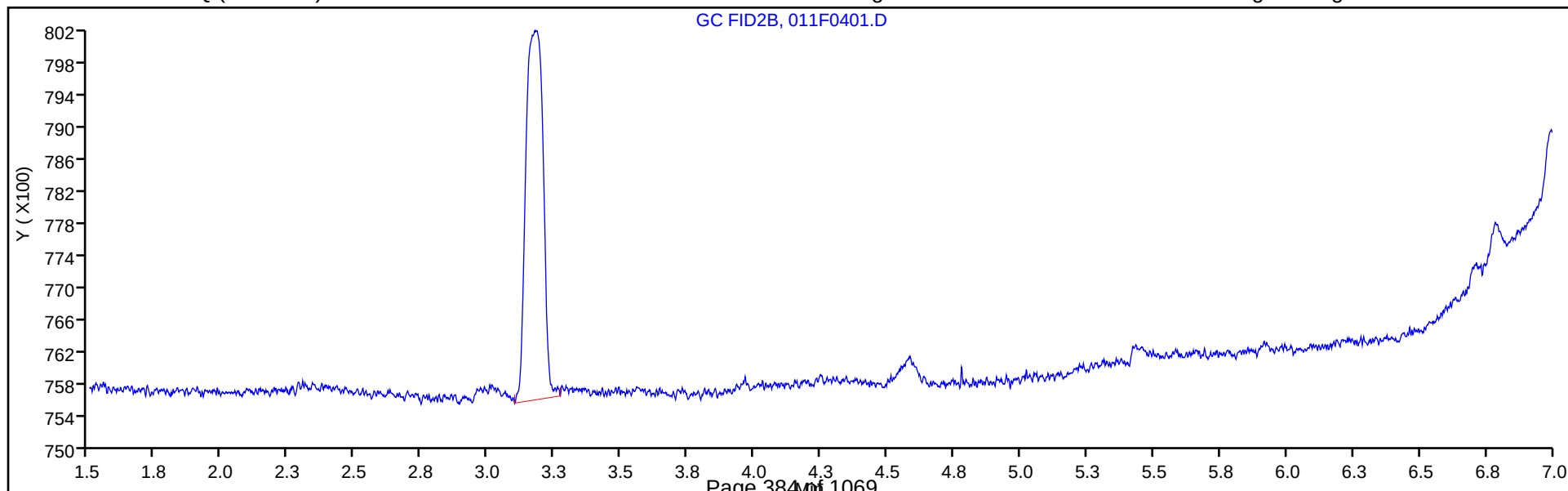
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 280-496925/34
Matrix: Water Lab File ID: 011F0201.D
Analysis Method: RSK-175 Date Collected: _____
Sample wt/vol: 18 (mL) Date Analyzed: 06/01/2020 14:59
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: HP-Plot Q ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 496925 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.0820		0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\011F0201.D
 Lims ID: lcs
 Client ID:
 Sample Type: LCS
 Inject. Date: 01-Jun-2020 14:59:07 ALS Bottle#: 11 Worklist Smp#: 34
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Method: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 02-Jun-2020 08:27:25 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1037

First Level Reviewer: sciannac

Date: 01-Jun-2020 15:20:23

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.256	1.253	0.003	11801101	73.0	81.8	
2	3.176	3.170	0.006	5629362	73.0	82.0	
RPD = 0.28							

3 Ethane

1	1.506	1.503	0.003	21753793	136.9	159.9	
2	4.306	4.302	0.004	9749286	136.9	159.7	
RPD = 0.14							

4 Ethylene

1	1.766	1.758	0.008	16232880	127.7	147.3	
2	4.034	4.028	0.006	7116512	127.7	148.5	
RPD = 0.80							

5 Propane

1	2.437	2.423	0.014	33877876	200.7	236.5	
2	5.926	5.923	0.003	15122816	200.7	241.5	
RPD = 2.08							

6 Acetylene

1	4.041	3.865	0.176	4387762	118.5	127.9	Ma
2	4.139	4.133	0.006	2953294	118.5	136.7	M
RPD = 6.61							

7 Butane

1	4.184	4.166	0.018	41637561	264.5	315.6	Ma
2	7.368	7.367	0.001	20470722	264.5	321.0	M
RPD = 1.67							

8 isobutylene

1	5.084	5.065	0.019	28186853	255.4	315.8	
2	7.221	7.218	0.003	13168511	255.4	316.9	
RPD = 0.35							

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00027

Amount Added: 200.00

Units: uL

Report Date: 02-Jun-2020 08:27:25

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\011F0201.D

Injection Date: 01-Jun-2020 14:59:07

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: lcs

Worklist Smp#: 34

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

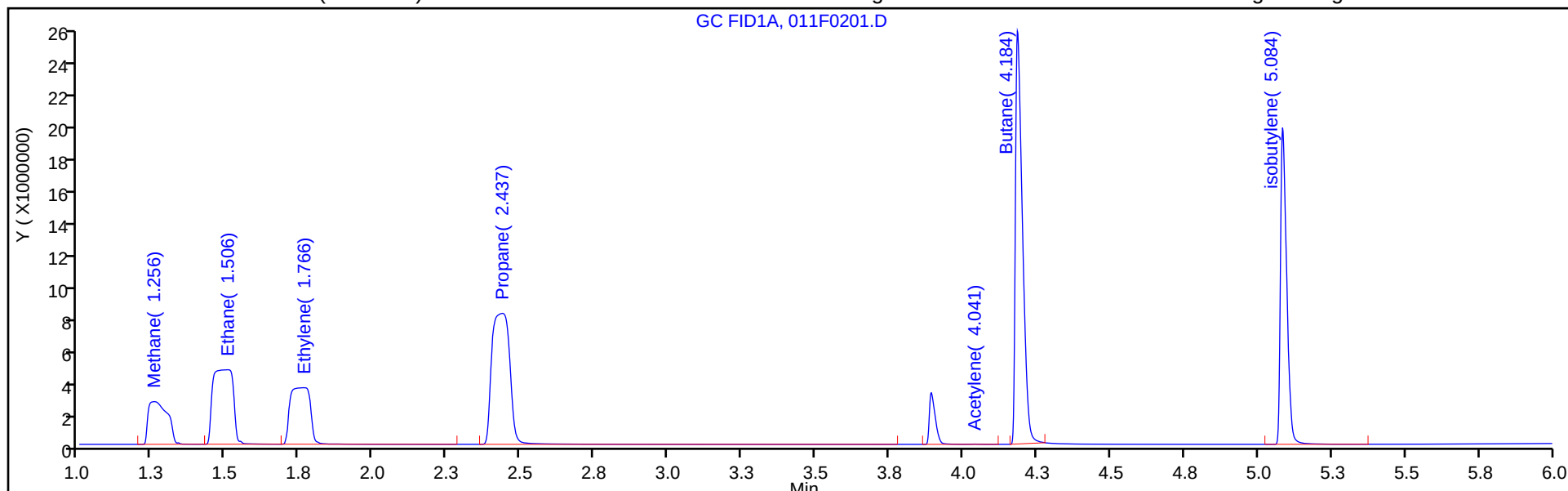
ALS Bottle#: 11

Method: RSK_J

Limit Group: GCV - RSK 175

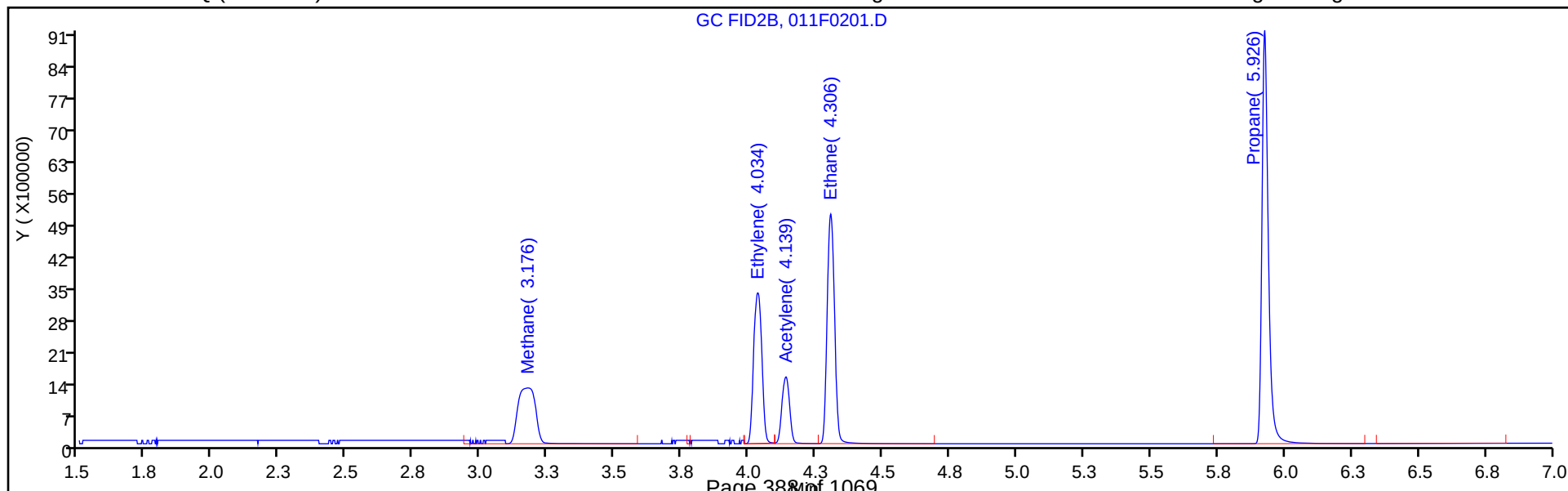
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 280-497247/33
Matrix: Water Lab File ID: 009F0201.D
Analysis Method: RSK-175 Date Collected: _____
Sample wt/vol: 18 (mL) Date Analyzed: 06/03/2020 14:40
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: HP-Plot Q ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 497247 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.0705		0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\009F0201.D
 Lims ID: lcs
 Client ID:
 Sample Type: LCS
 Inject. Date: 03-Jun-2020 14:40:23 ALS Bottle#: 9 Worklist Smp#: 33
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Method: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 05-Jun-2020 13:56:29 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1025

First Level Reviewer: sciannac

Date: 05-Jun-2020 13:27:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.261	1.250	0.011	10213276	73.0	70.7	
2	3.188	3.161	0.027	4845776	73.0	70.5	
RPD = 0.25							

3 Ethane

1	1.513	1.500	0.013	18347954	136.9	134.9	
2	4.315	4.296	0.019	8182022	136.9	134.0	
RPD = 0.64							

4 Ethylene

1	1.780	1.758	0.022	14273643	127.7	129.5	Ma
2	4.043	4.023	0.020	6224414	127.7	129.9	M
RPD = 0.27							

5 Propane

1	2.461	2.433	0.028	28768105	200.7	200.8	
2	5.931	5.918	0.013	12783764	200.7	204.1	
RPD = 1.63							

6 Acetylene

1	3.910	3.886	0.024	4153841	118.5	121.1	M
2	4.146	4.128	0.018	2725238	118.5	126.1	M
RPD = 4.05							

7 Butane

1	4.203	4.181	0.022	35473341	264.5	268.9	
2	7.373	7.363	0.010	17033750	264.5	267.1	
RPD = 0.68							

8 isobutylene

1	5.100	5.083	0.017	24075526	255.4	269.7	
2	7.226	7.216	0.010	11197840	255.4	269.4	
RPD = 0.09							

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00027

Amount Added: 200.00

Units: uL

Report Date: 05-Jun-2020 13:56:30

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\009F0201.D

Injection Date: 03-Jun-2020 14:40:23

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: lcs

Worklist Smp#: 33

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

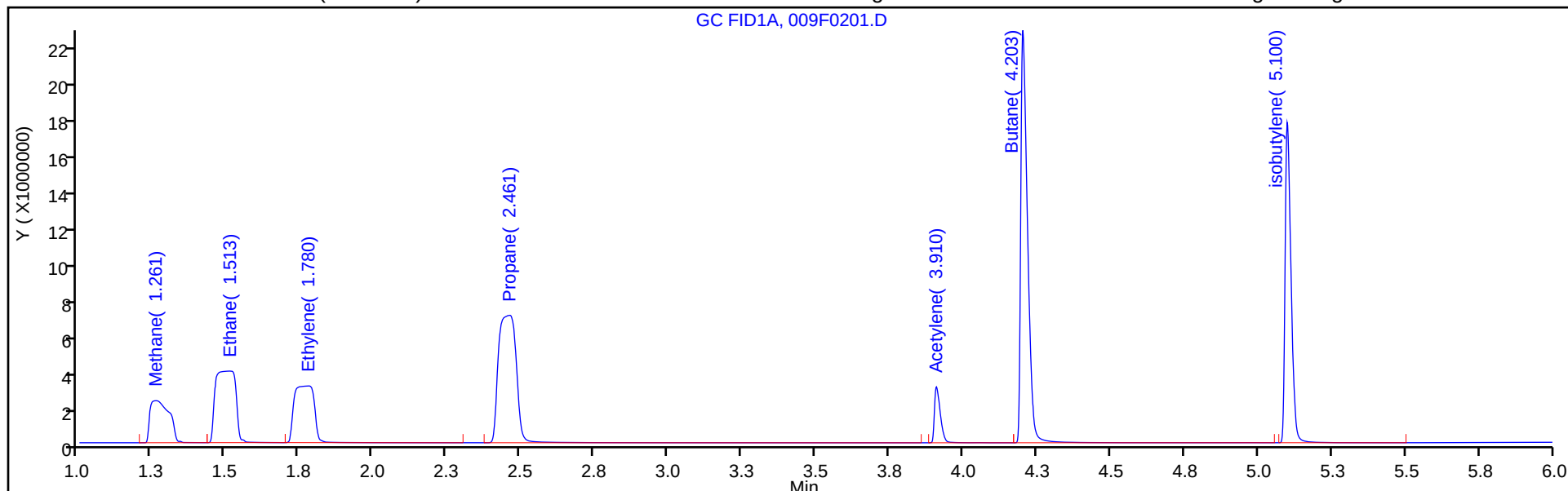
ALS Bottle#: 9

Method: RSK_J

Limit Group: GCV - RSK 175

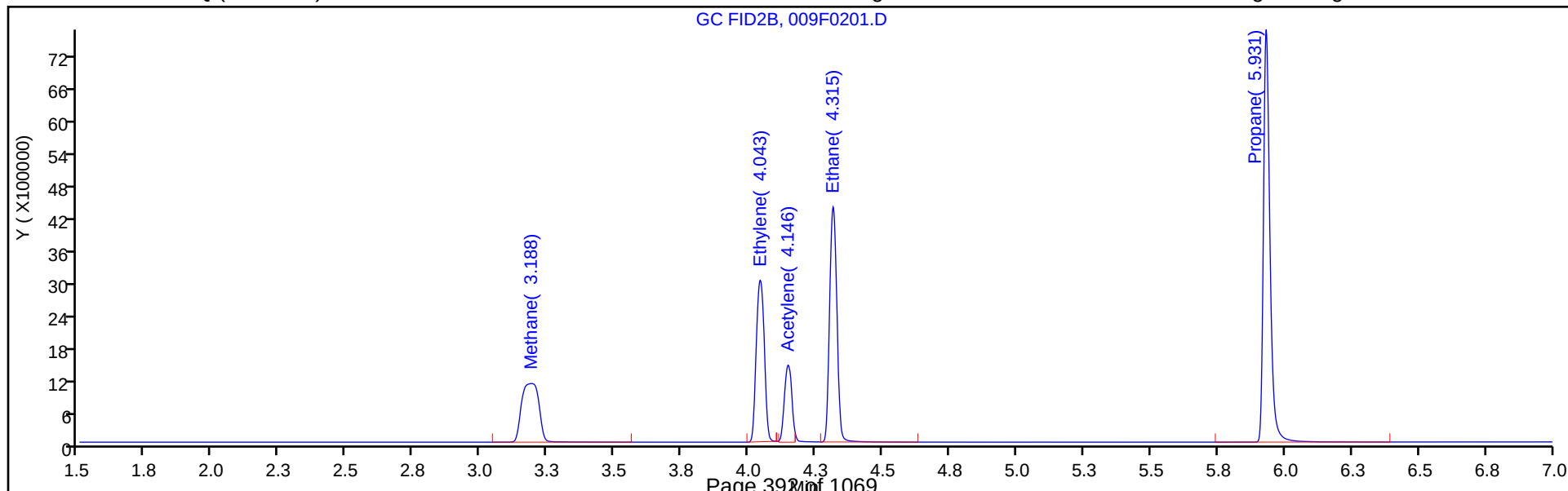
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCSD 280-496925/35
Matrix: Water Lab File ID: 012F0301.D
Analysis Method: RSK-175 Date Collected: _____
Sample wt/vol: 18 (mL) Date Analyzed: 06/01/2020 15:15
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: HP-Plot Q ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 496925 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.0799		0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\012F0301.D
 Lims ID: lcsd
 Client ID:
 Sample Type: LCSD
 Inject. Date: 01-Jun-2020 15:15:27 ALS Bottle#: 12 Worklist Smp#: 35
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: LCSD
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Method: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 02-Jun-2020 08:27:25 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1037

First Level Reviewer: sciannac

Date: 01-Jun-2020 15:33:00

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.252	1.253	-0.001	11507178	73.0	79.7	
2	3.172	3.170	0.002	5487302	73.0	79.9	
RPD = 0.24							

3 Ethane

1	1.504	1.503	0.001	21324068	136.9	156.7	
2	4.302	4.302	0.000	9558048	136.9	156.5	
RPD = 0.13							

4 Ethylene

1	1.761	1.758	0.003	16014329	127.7	145.3	
2	4.031	4.028	0.003	7023466	127.7	146.5	
RPD = 0.84							

5 Propane

1	2.434	2.423	0.011	32961008	200.7	230.1	
2	5.924	5.923	0.001	14705057	200.7	234.8	
RPD = 2.02							

6 Acetylene

1	4.042	3.865	0.177	4433018	118.5	129.3	Ma
2	4.136	4.133	0.003	2983911	118.5	138.1	M
RPD = 6.62							

7 Butane

1	4.192	4.166	0.026	41055220	264.5	311.2	a
2	7.367	7.367	0.000	19819455	264.5	310.7	a
RPD = 0.15							

8 isobutylene

1	5.086	5.065	0.021	27638353	255.4	309.6	Ma
2	7.221	7.218	0.003	12945628	255.4	311.5	M
RPD = 0.61							

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00027

Amount Added: 200.00

Units: uL

Report Date: 02-Jun-2020 08:27:26

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\012F0301.D

Injection Date: 01-Jun-2020 15:15:27

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: lcsd

Worklist Smp#: 35

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

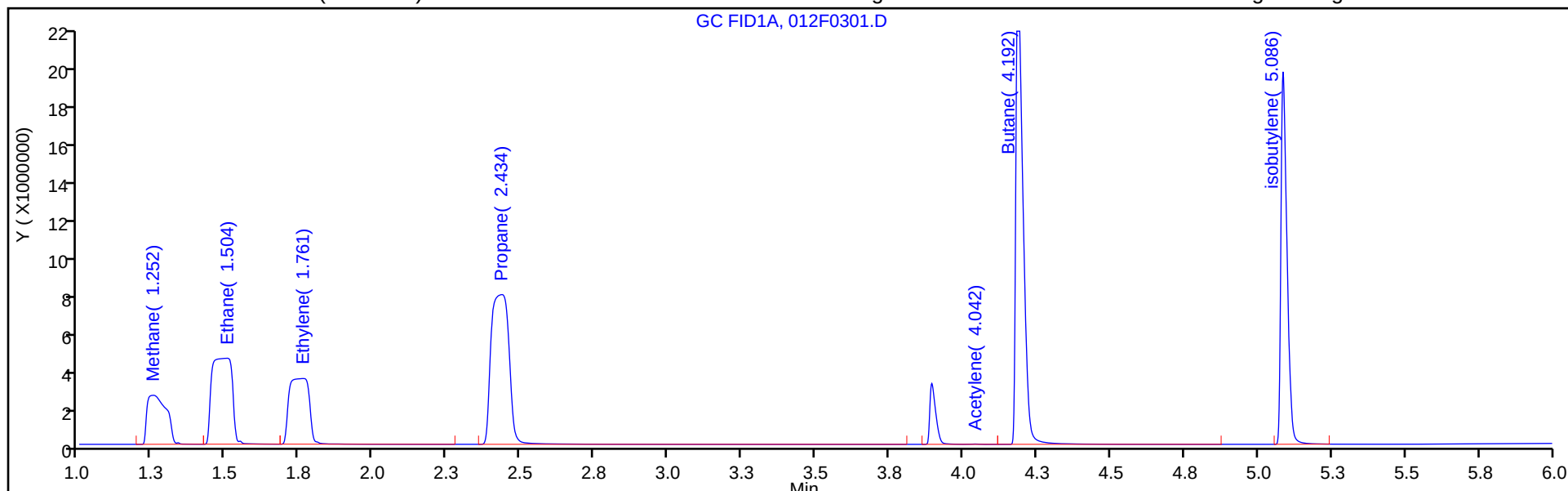
ALS Bottle#: 12

Method: RSK_J

Limit Group: GCV - RSK 175

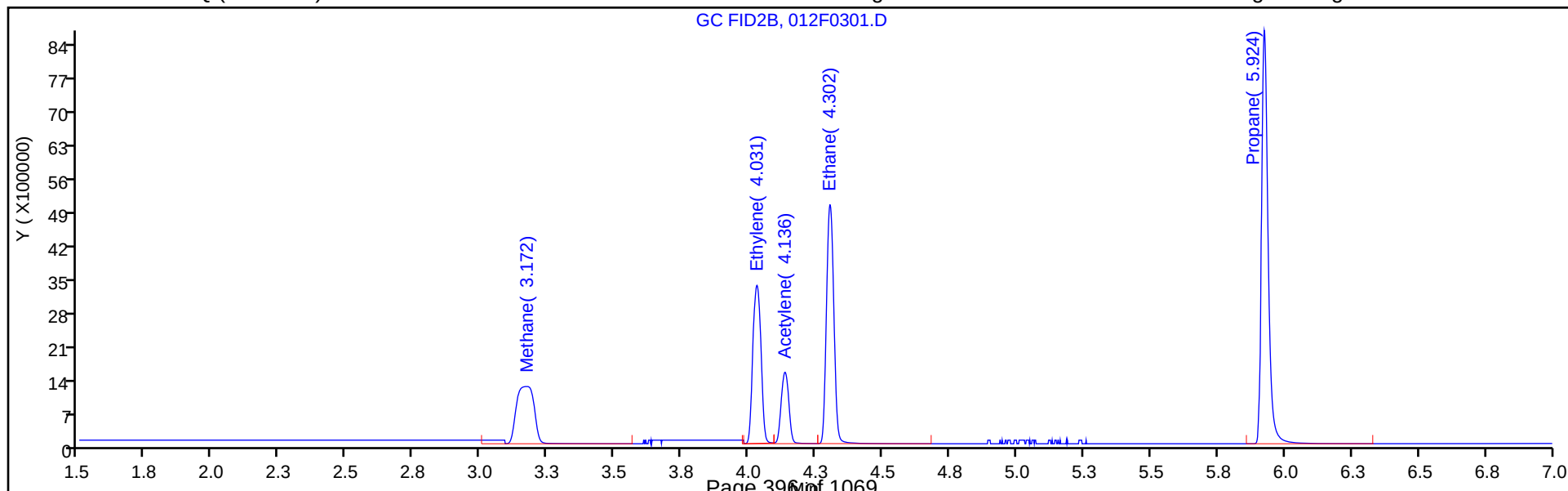
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCSD 280-497247/35
Matrix: Water Lab File ID: 010F0301.D
Analysis Method: RSK-175 Date Collected: _____
Sample wt/vol: 18 (mL) Date Analyzed: 06/03/2020 14:56
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: HP-Plot Q ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 497247 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.0704		0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\010F0301.D
 Lims ID: lcsd
 Client ID:
 Sample Type: LCSD
 Inject. Date: 03-Jun-2020 14:56:40 ALS Bottle#: 10 Worklist Smp#: 35
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: LCSD
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Method: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 05-Jun-2020 13:56:29 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1: Rt-Alumina BOND/KCI (0.53 mm) Det: GC FID1A
 Column 2: HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1025

First Level Reviewer: sciannac

Date: 05-Jun-2020 13:29:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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2 Methane

1	1.260	1.250	0.010	10161593	73.0	70.4	
2	3.181	3.161	0.020	4835005	73.0	70.4	

RPD = 0.04

3 Ethane

1	1.510	1.500	0.010	18276245	136.9	134.3	M
2	4.311	4.296	0.015	8150597	136.9	133.5	M

RPD = 0.63

4 Ethylene

1	1.775	1.758	0.017	14299387	127.7	129.7	
2	4.040	4.023	0.017	6251241	127.7	130.4	M

RPD = 0.52

5 Propane

1	2.453	2.433	0.020	28646150	200.7	200.0	
2	5.928	5.918	0.010	12749812	200.7	203.6	

RPD = 1.78

6 Acetylene

1	3.908	3.886	0.022	4267278	118.5	124.4	
2	4.143	4.128	0.015	2861294	118.5	132.4	M

RPD = 6.23

7 Butane

1	4.201	4.181	0.020	35339157	264.5	267.9	
2	7.371	7.363	0.008	17025112	264.5	267.0	

RPD = 0.35

8 isobutylene

1	5.100	5.083	0.017	24177660	255.4	270.8	
2	7.225	7.216	0.009	11258373	255.4	270.9	

RPD = 0.02

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00027

Amount Added: 200.00

Units: uL

Report Date: 05-Jun-2020 13:56:31

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200603-92068.b\010F0301.D

Injection Date: 03-Jun-2020 14:56:40

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: lcsd

Worklist Smp#: 35

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

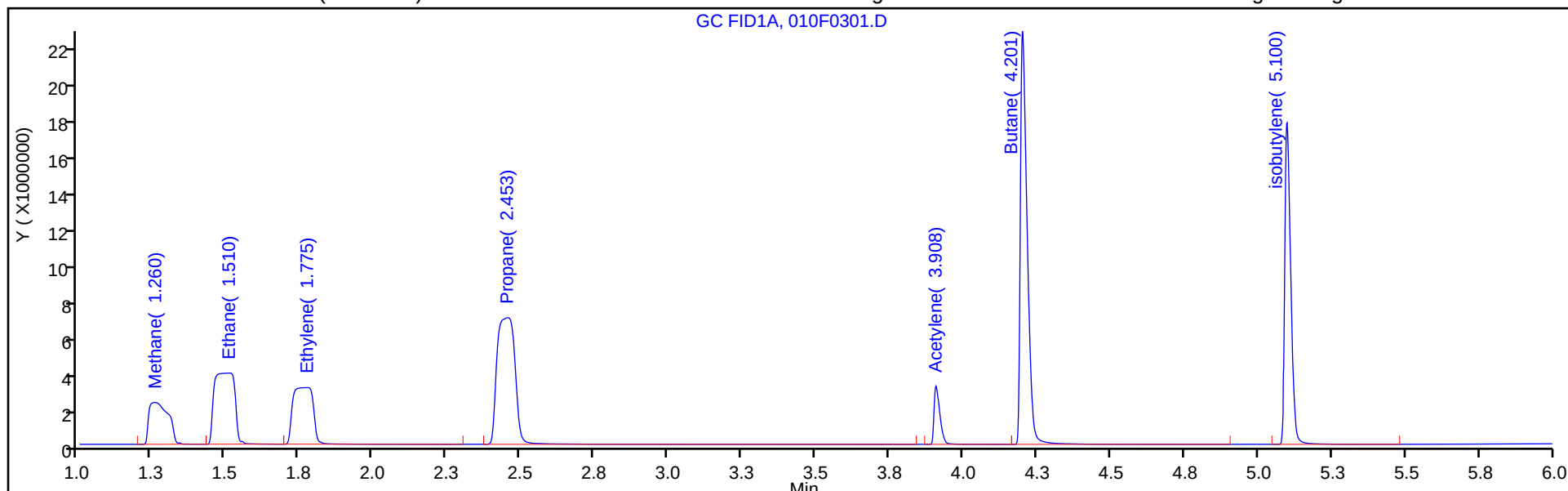
ALS Bottle#: 10

Method: RSK_J

Limit Group: GCV - RSK 175

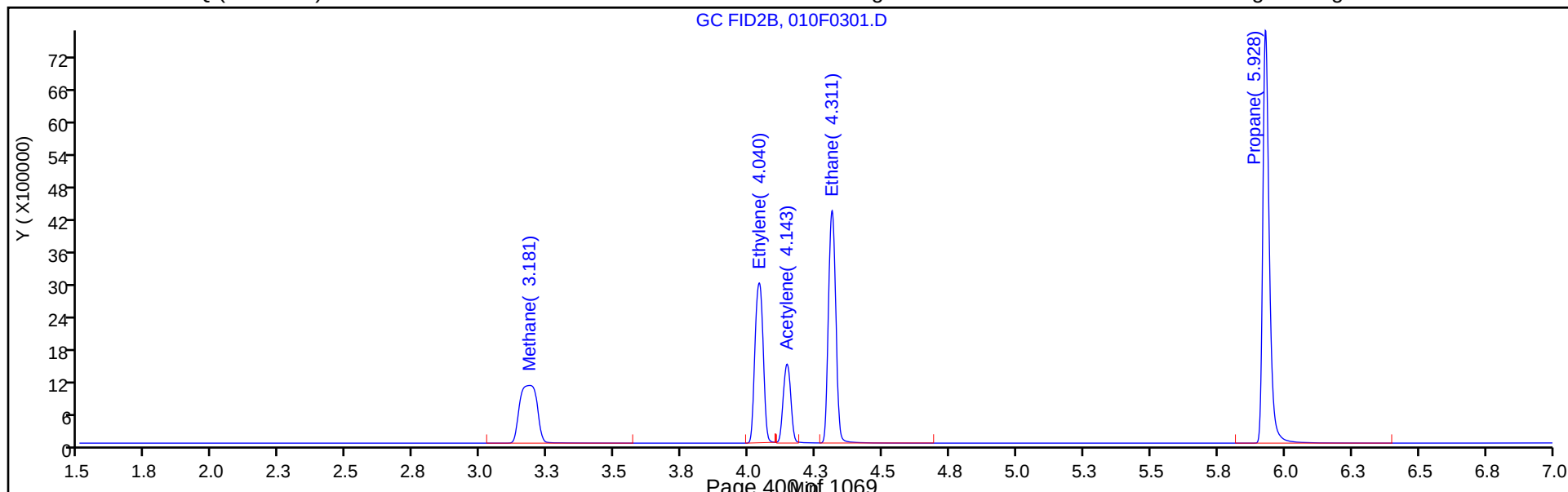
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Client Sample ID: EW7-PM21A-3-25 MS Lab Sample ID: 280-137048-1 MS
Matrix: Water Lab File ID: 015F0601.D
Analysis Method: RSK-175 Date Collected: 05/28/2020 10:45
Sample wt/vol: 18 (mL) Date Analyzed: 06/01/2020 16:04
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: HP-Plot Q ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 496925 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	6.13	4	0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\015F0601.D
 Lims ID: 280-137048-I-1 MS
 Client ID:
 Sample Type: MS
 Inject. Date: 01-Jun-2020 16:04:31 ALS Bottle#: 15 Worklist Smp#: 31
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: 280-137048-h-1
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Method: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 02-Jun-2020 08:27:25 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1: Rt-Alumina BOND/KCI (0.53 mm) Det: GC FID1A
 Column 2: HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1037

First Level Reviewer: sciannac

Date: 02-Jun-2020 08:26:37

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 1 1,1,1-Trifluoroethane

1	4.098	ND
2	5.458	

2 Methane

1	1.241	1.253	-0.012	912381625	73.0	6347.4
2	3.148	3.170	-0.022	419745959	73.0	6132.1

RPD = 3.45

3 Ethane

1	1.461	1.503	-0.042	20375396	136.9	149.8
2	4.300	4.302	-0.002	8797910	136.9	144.1

RPD = 3.86

4 Ethylene

1	1.710	1.758	-0.048	16117419	127.7	146.2	Ma
2	4.025	4.028	-0.003	6843189	127.7	142.8	M

RPD = 2.40

5 Propane

1	2.376	2.423	-0.047	31956374	200.7	223.1
2	5.923	5.923	0.000	13571556	200.7	216.7

RPD = 2.90

6 Acetylene

1	0.000	3.865	0.000	0	118.5	0	Ma
2	4.131	4.133	-0.002	2775300	118.5	128.5	M

RPD = 200.00

7 Butane

1	4.188	4.166	0.022	39427830	264.5	298.9	a
2	7.368	7.367	0.001	18105117	264.5	283.9	a

RPD = 5.14

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\015F0601.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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8 isobutylene							Ma
1	5.091	5.065	0.026	28197119	255.4	315.9	M
2	7.220	7.218	0.002	12584327	255.4	302.8	a

RPD = 4.22

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031

Amount Added: 200.00

Units: uL

Report Date: 02-Jun-2020 08:27:27

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\015F0601.D

Injection Date: 01-Jun-2020 16:04:31

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: 280-137048-I-1 MS

Worklist Smp#: 31

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

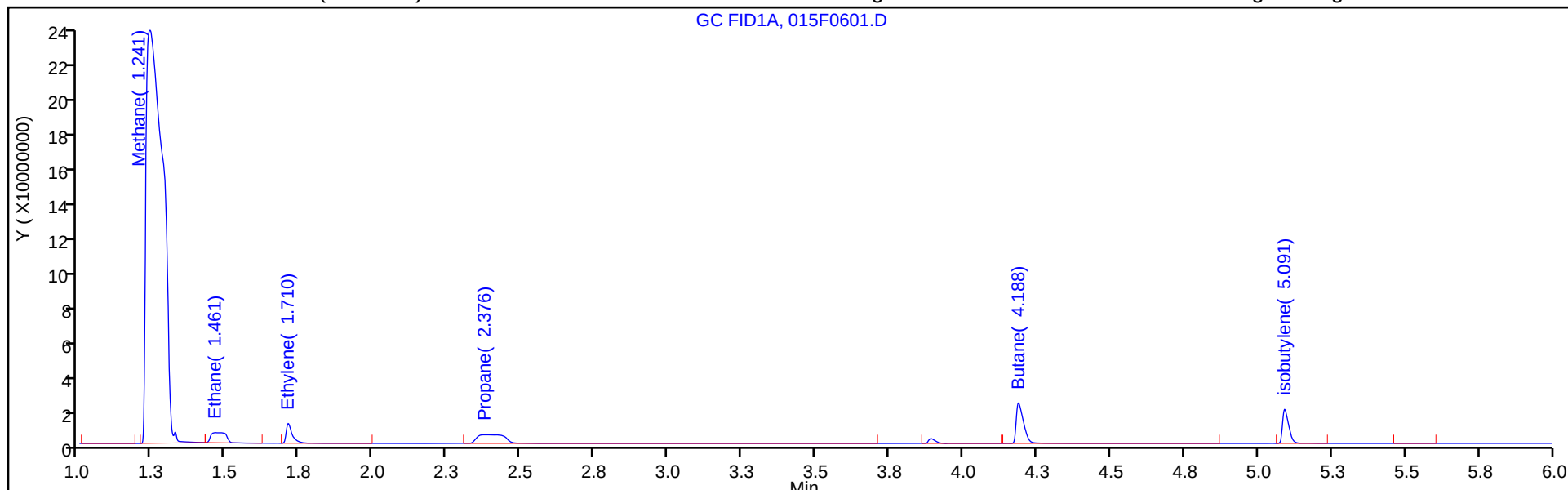
ALS Bottle#: 15

Method: RSK_J

Limit Group: GCV - RSK 175

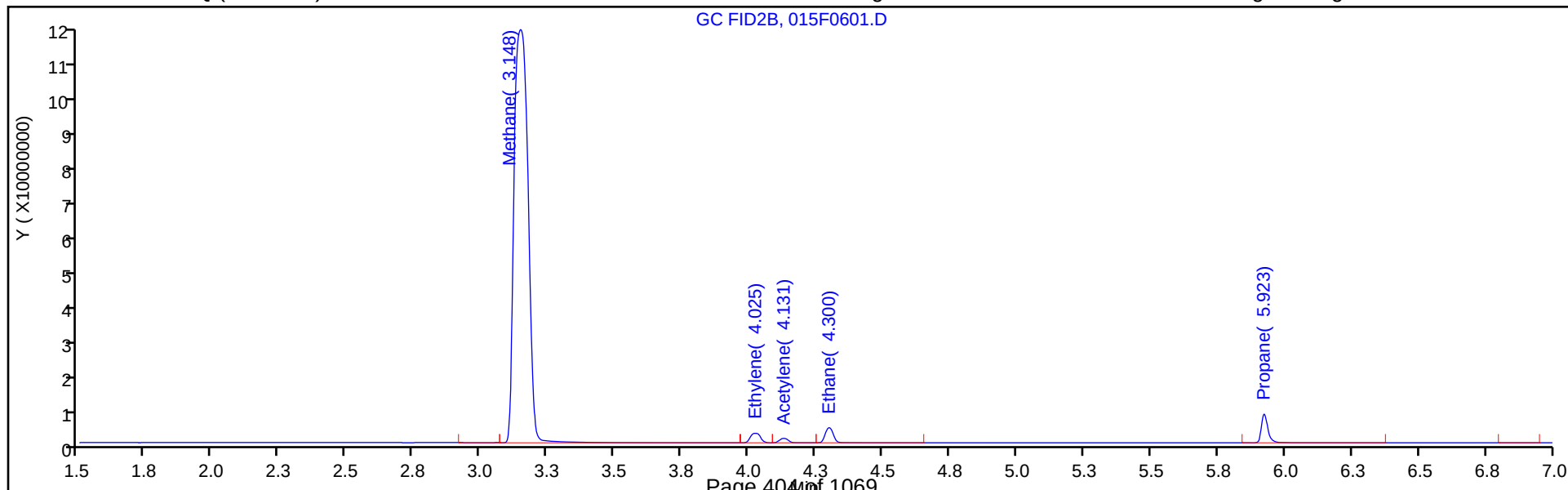
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Client Sample ID: EW7-PM21A-3-25 MSD Lab Sample ID: 280-137048-1 MSD
Matrix: Water Lab File ID: 016F0701.D
Analysis Method: RSK-175 Date Collected: 05/28/2020 10:45
Sample wt/vol: 18 (mL) Date Analyzed: 06/01/2020 16:20
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: HP-Plot Q ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 496925 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	5.71	4	0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\016F0701.D
 Lims ID: 280-137048-I-1 MSD
 Client ID:
 Sample Type: MSD
 Inject. Date: 01-Jun-2020 16:20:52 ALS Bottle#: 16 Worklist Smp#: 32
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: 280-137048-h-1
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Method: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 02-Jun-2020 08:27:25 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1: Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
 Column 2: HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1037

First Level Reviewer: sciannac

Date: 02-Jun-2020 08:24:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 1 1,1,1-Trifluoroethane

1	4.098	ND
2	5.458	

2 Methane

1	1.243	1.253	-0.010	847121777	73.0	5893.4
2	3.152	3.170	-0.018	390746378	73.0	5708.4

RPD = 3.19

3 Ethane

1	1.465	1.503	-0.038	17270107	136.9	126.9
2	4.300	4.302	-0.002	7481410	136.9	122.5

RPD = 3.54

4 Ethylene

1	1.715	1.758	-0.043	13934170	127.7	126.4
2	4.025	4.028	-0.003	8504639	127.7	177.4

RPD = 33.57

5 Propane

1	2.388	2.423	-0.035	27162960	200.7	189.6
2	5.923	5.923	0.000	11567043	200.7	184.7

RPD = 2.63

6 Acetylene

1	3.865	ND	ND
2	4.133		

7 Butane

1	4.166	ND	ND
2	7.367		

8 isobutylene

1	5.095	5.065	0.030	24508242	255.4	274.5
2	7.220	7.218	0.002	10934554	255.4	263.1

RPD = 4.25

[QC Flag Legend](#)

Processing Flags

ND - Not Detected or Marked ND

[Reagents:](#)

RSK7gasMathes_00031

Amount Added: 200.00

Units: uL

Report Date: 02-Jun-2020 08:27:28

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\016F0701.D

Injection Date: 01-Jun-2020 16:20:52

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: 280-137048-I-1 MSD

Worklist Smp#: 32

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

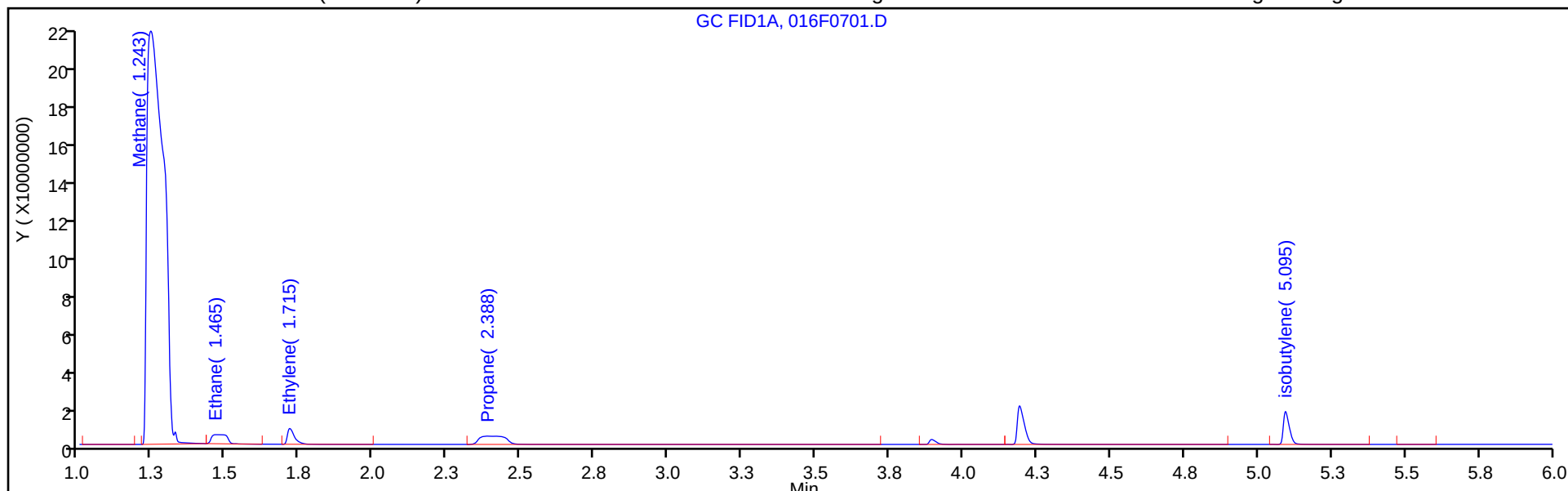
ALS Bottle#: 16

Method: RSK_J

Limit Group: GCV - RSK 175

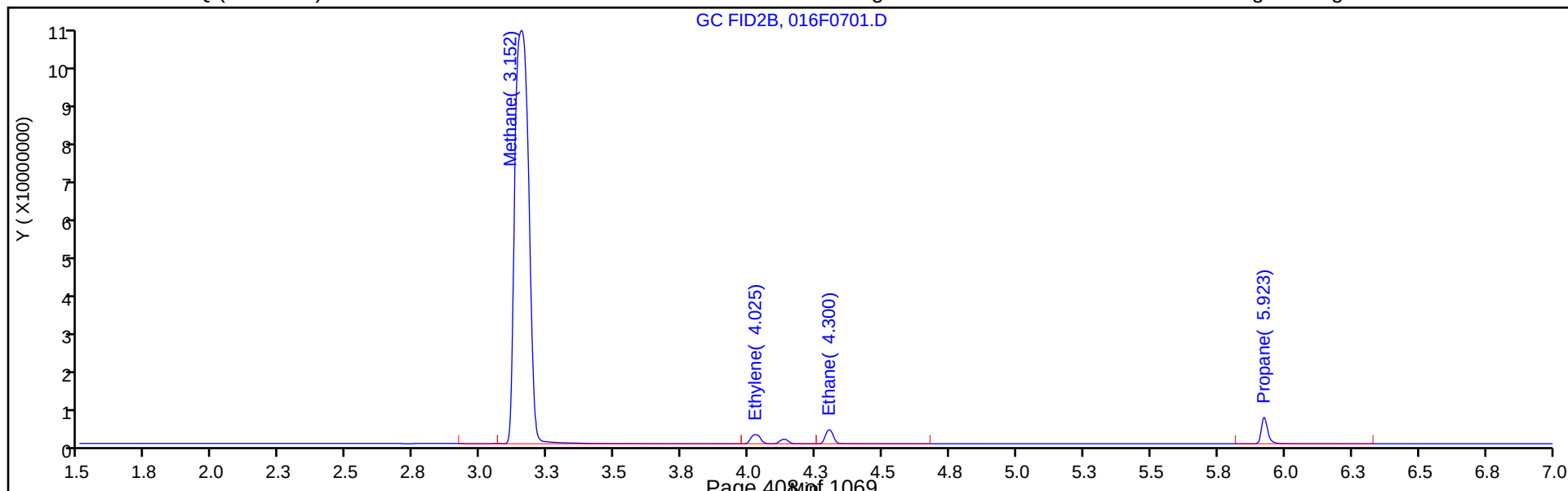
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Client Sample ID: EW7-PM21A-3-25 DU Lab Sample ID: 280-137048-1 DU
Matrix: Water Lab File ID: 014F0501.D
Analysis Method: RSK-175 Date Collected: 05/28/2020 10:45
Sample wt/vol: 18 (mL) Date Analyzed: 06/01/2020 15:48
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: HP-Plot Q ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 496925 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	5.31		0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\014F0501.D
 Lims ID: 280-137048-H-1 DU
 Client ID:
 Sample Type: DU
 Inject. Date: 01-Jun-2020 15:48:09 ALS Bottle#: 14 Worklist Smp#: 30
 Purge Vol: 18.000 mL Dil. Factor: 1.0000
 Sample Info: 280-136783-q-1
 Operator ID: SCIANNAC Instrument ID: VGC_J
 Method: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\RSK_J.m
 Limit Group: GCV - RSK 175
 Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
 Last Update: 02-Jun-2020 08:27:25 Calib Date: 16-May-2020 13:08:56
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200516-91574.b\009F0901.D
 Column 1: Rt-Alumina BOND/KCI (0.53 mm) Det: GC FID1A
 Column 2: HP-PLOT/Q (0.53 mm) Det: GC FID2B
 Process Host: CTX1037

First Level Reviewer: sciannac

Date: 02-Jun-2020 08:26:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 1 1,1,1-Trifluoroethane

1	4.098	ND
2	5.458	

2 Methane

1	1.247	1.253	-0.006	793086529	5517.4
2	3.155	3.170	-0.015	363479073	5310.0

RPD = 3.83

3 Ethane

1	1.503	ND
2	4.302	

4 Ethylene

1	1.758	ND
2	4.028	

5 Propane

1	2.423	ND
2	5.923	

6 Acetylene

1	3.865	ND
2	4.133	

7 Butane

1	4.166	ND
2	7.367	

8 isobutylene

1	5.065	ND
2	7.218	

Report Date: 02-Jun-2020 08:27:27

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VGC_J\20200601-92001.b\014F0501.D

Injection Date: 01-Jun-2020 15:48:09

Instrument ID: VGC_J

Operator ID: SCIANNAC

Lims ID: 280-137048-H-1 DU

Worklist Smp#: 30

Client ID:

Purge Vol: 18.000 mL

Dil. Factor: 1.0000

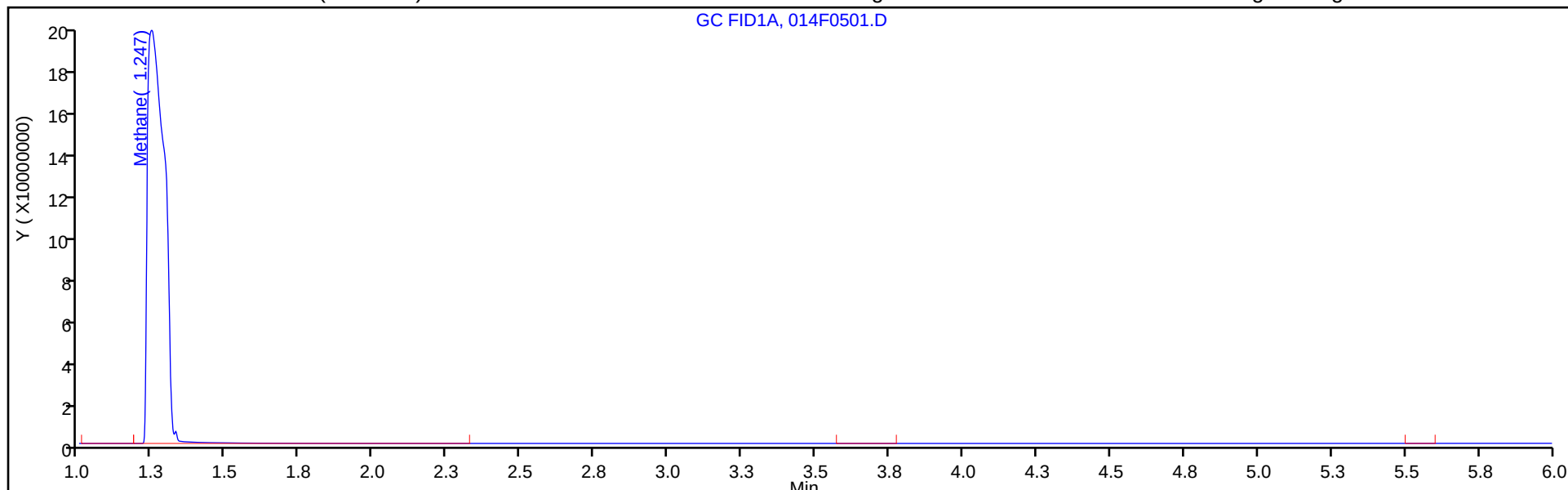
ALS Bottle#: 14

Method: RSK_J

Limit Group: GCV - RSK 175

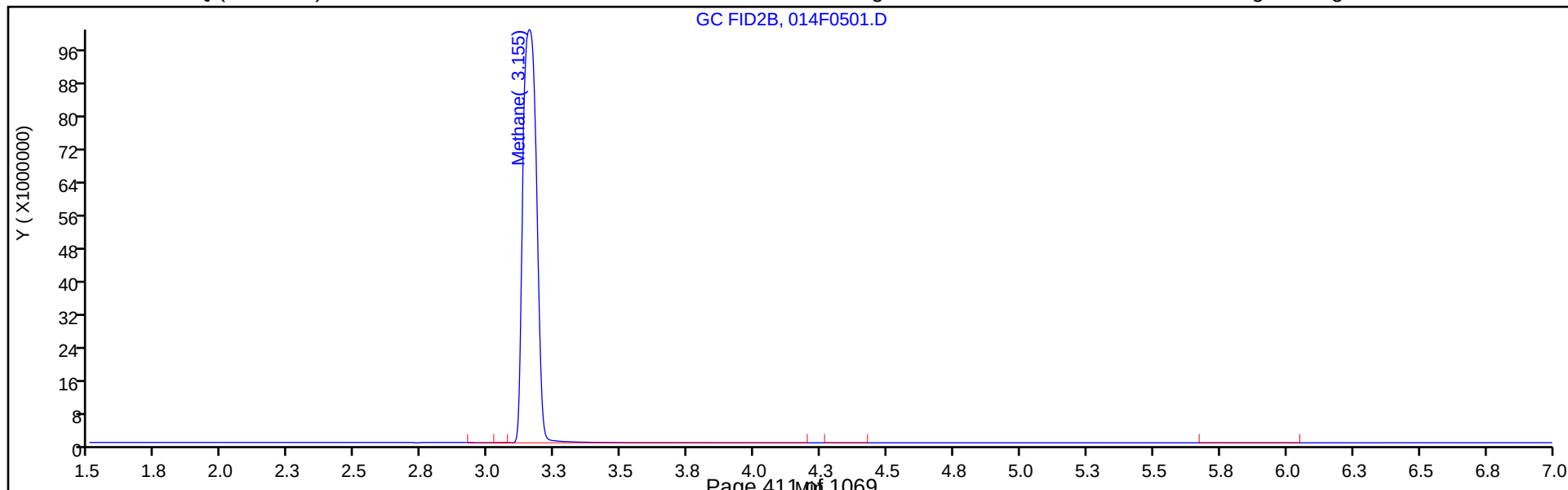
Column: Rt-Alumina BOND/KCl (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, DenverJob No.: 280-137048-1

SDG No.: _____

Instrument ID: VGC_JStart Date: 05/16/2020 10:57Analysis Batch Number: 495152End Date: 05/16/2020 13:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 280-495152/6		05/16/2020 10:57	1	001F0101.D	Rt-Alumina KCl 0.53 (mm)
IC 280-495152/6		05/16/2020 10:57	1	001F0101.D	HP-Plot Q 0.53 (mm)
IC 280-495152/7		05/16/2020 11:13	1	001F0201.D	Rt-Alumina KCl 0.53 (mm)
IC 280-495152/7		05/16/2020 11:13	1	001F0201.D	HP-Plot Q 0.53 (mm)
IC 280-495152/8		05/16/2020 11:30	1	002F0301.D	Rt-Alumina KCl 0.53 (mm)
IC 280-495152/8		05/16/2020 11:30	1	002F0301.D	HP-Plot Q 0.53 (mm)
IC 280-495152/9		05/16/2020 11:46	1	003F0401.D	Rt-Alumina KCl 0.53 (mm)
IC 280-495152/9		05/16/2020 11:46	1	003F0401.D	HP-Plot Q 0.53 (mm)
ICRT 280-495152/10		05/16/2020 12:02	1	004F0501.D	Rt-Alumina KCl 0.53 (mm)
ICRT 280-495152/10		05/16/2020 12:02	1	004F0501.D	HP-Plot Q 0.53 (mm)
IC 280-495152/11		05/16/2020 12:19	1	005F0601.D	Rt-Alumina KCl 0.53 (mm)
IC 280-495152/11		05/16/2020 12:19	1	005F0601.D	HP-Plot Q 0.53 (mm)
IC 280-495152/12		05/16/2020 12:35	1	006F0701.D	Rt-Alumina KCl 0.53 (mm)
IC 280-495152/12		05/16/2020 12:35	1	006F0701.D	HP-Plot Q 0.53 (mm)
IC 280-495152/13		05/16/2020 12:52	1	007F0801.D	Rt-Alumina KCl 0.53 (mm)
IC 280-495152/13		05/16/2020 12:52	1	007F0801.D	HP-Plot Q 0.53 (mm)
IC 280-495152/14		05/16/2020 13:08	1	009F0901.D	Rt-Alumina KCl 0.53 (mm)
IC 280-495152/14		05/16/2020 13:08	1	009F0901.D	HP-Plot Q 0.53 (mm)
ICV 280-495152/16		05/16/2020 13:25	1	010F1001.D	Rt-Alumina KCl 0.53 (mm)
ICV 280-495152/16		05/16/2020 13:25	1	010F1001.D	HP-Plot Q 0.53 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-137048-1

SDG No.:

Instrument ID: VGC_J

Start Date: 06/01/2020 13:13

Analysis Batch Number: 496925

End Date: 06/01/2020 19:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 280-496925/4		06/01/2020 13:13	1	A004F0401.D	Rt-Alumina KCl 0.53 (mm)
CCVRT 280-496925/4		06/01/2020 13:13	1	A004F0401.D	HP-Plot Q 0.53 (mm)
MB 280-496925/7		06/01/2020 14:02	1	007F0701.D	Rt-Alumina KCl 0.53 (mm)
MB 280-496925/7		06/01/2020 14:02	1	007F0701.D	HP-Plot Q 0.53 (mm)
CCV 280-496925/33		06/01/2020 14:42	1	010F0101.D	Rt-Alumina KCl 0.53 (mm)
CCV 280-496925/33		06/01/2020 14:42	1	010F0101.D	HP-Plot Q 0.53 (mm)
LCS 280-496925/34		06/01/2020 14:59	1	011F0201.D	Rt-Alumina KCl 0.53 (mm)
LCS 280-496925/34		06/01/2020 14:59	1	011F0201.D	HP-Plot Q 0.53 (mm)
LCSD 280-496925/35		06/01/2020 15:15	1	012F0301.D	Rt-Alumina KCl 0.53 (mm)
LCSD 280-496925/35		06/01/2020 15:15	1	012F0301.D	HP-Plot Q 0.53 (mm)
280-137048-1		06/01/2020 15:31	1	013F0401.D	Rt-Alumina KCl 0.53 (mm)
280-137048-1		06/01/2020 15:31	1	013F0401.D	HP-Plot Q 0.53 (mm)
280-137048-1 DU		06/01/2020 15:48	1	014F0501.D	Rt-Alumina KCl 0.53 (mm)
280-137048-1 DU		06/01/2020 15:48	1	014F0501.D	HP-Plot Q 0.53 (mm)
280-137048-1 MS		06/01/2020 16:04	1	015F0601.D	Rt-Alumina KCl 0.53 (mm)
280-137048-1 MS		06/01/2020 16:04	1	015F0601.D	HP-Plot Q 0.53 (mm)
280-137048-1 MSD		06/01/2020 16:20	1	016F0701.D	Rt-Alumina KCl 0.53 (mm)
280-137048-1 MSD		06/01/2020 16:20	1	016F0701.D	HP-Plot Q 0.53 (mm)
ZZZZZ		06/01/2020 16:37	6		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/01/2020 16:37	6		HP-Plot Q 0.53 (mm)
ZZZZZ		06/01/2020 16:53	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/01/2020 16:53	1		HP-Plot Q 0.53 (mm)
280-137048-2		06/01/2020 17:09	1	019F1001.D	Rt-Alumina KCl 0.53 (mm)
280-137048-2		06/01/2020 17:09	1	019F1001.D	HP-Plot Q 0.53 (mm)
ZZZZZ		06/01/2020 17:26	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/01/2020 17:26	1		HP-Plot Q 0.53 (mm)
ZZZZZ		06/01/2020 17:42	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/01/2020 17:42	1		HP-Plot Q 0.53 (mm)
ZZZZZ		06/01/2020 17:58	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/01/2020 17:58	1		HP-Plot Q 0.53 (mm)
ZZZZZ		06/01/2020 18:15	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/01/2020 18:15	1		HP-Plot Q 0.53 (mm)
ZZZZZ		06/01/2020 18:31	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/01/2020 18:31	1		HP-Plot Q 0.53 (mm)
ZZZZZ		06/01/2020 18:47	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/01/2020 18:47	1		HP-Plot Q 0.53 (mm)
CCV 280-496925/36		06/01/2020 19:03	1	026F1701.D	Rt-Alumina KCl 0.53 (mm)
CCV 280-496925/36		06/01/2020 19:03	1	026F1701.D	HP-Plot Q 0.53 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-137048-1

SDG No.:

Instrument ID: VGC_J

Start Date: 06/03/2020 11:03

Analysis Batch Number: 497247

End Date: 06/03/2020 21:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 280-497247/4		06/03/2020 11:03	1	004F0401.D	Rt-Alumina KCl 0.53 (mm)
CCVRT 280-497247/4		06/03/2020 11:03	1	004F0401.D	HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 11:20	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/03/2020 11:20	1		HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 11:36	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/03/2020 11:36	1		HP-Plot Q 0.53 (mm)
MB 280-497247/7		06/03/2020 11:52	1	007F0701.D	Rt-Alumina KCl 0.53 (mm)
MB 280-497247/7		06/03/2020 11:52	1	007F0701.D	HP-Plot Q 0.53 (mm)
CCV 280-497247/32		06/03/2020 14:24	1	008F0101.D	Rt-Alumina KCl 0.53 (mm)
CCV 280-497247/32		06/03/2020 14:24	1	008F0101.D	HP-Plot Q 0.53 (mm)
LCS 280-497247/33		06/03/2020 14:40	1	009F0201.D	Rt-Alumina KCl 0.53 (mm)
LCS 280-497247/33		06/03/2020 14:40	1	009F0201.D	HP-Plot Q 0.53 (mm)
LCSD 280-497247/35		06/03/2020 14:56	1	010F0301.D	Rt-Alumina KCl 0.53 (mm)
LCSD 280-497247/35		06/03/2020 14:56	1	010F0301.D	HP-Plot Q 0.53 (mm)
MB 280-497247/34		06/03/2020 15:12	1	011F0401.D	Rt-Alumina KCl 0.53 (mm)
MB 280-497247/34		06/03/2020 15:12	1	011F0401.D	HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 15:29	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/03/2020 15:29	1		HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 15:45	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/03/2020 15:45	1		HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 16:01	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/03/2020 16:01	1		HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 16:18	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/03/2020 16:18	1		HP-Plot Q 0.53 (mm)
280-137048-2		06/03/2020 16:34	3	016F0901.D	Rt-Alumina KCl 0.53 (mm)
280-137048-2		06/03/2020 16:34	3	016F0901.D	HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 16:50	3		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/03/2020 16:50	3		HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 17:07	6		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/03/2020 17:07	6		HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 17:23	6		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/03/2020 17:23	6		HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 17:39	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/03/2020 17:39	1		HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 17:56	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/03/2020 17:56	1		HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 18:12	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/03/2020 18:12	1		HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 18:28	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/03/2020 18:28	1		HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 18:45	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/03/2020 18:45	1		HP-Plot Q 0.53 (mm)
CCV 280-497247/21		06/03/2020 19:01	1	025F1801.D	Rt-Alumina KCl 0.53 (mm)
CCV 280-497247/21		06/03/2020 19:01	1	025F1801.D	HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 19:17	1		Rt-Alumina KCl 0.53 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, DenverJob No.: 280-137048-1

SDG No.: _____

Instrument ID: VGC_JStart Date: 06/03/2020 11:03Analysis Batch Number: 497247End Date: 06/03/2020 21:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/03/2020 19:17	1		HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 19:34	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/03/2020 19:34	1		HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 19:50	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/03/2020 19:50	1		HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 20:06	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/03/2020 20:06	1		HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 20:23	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/03/2020 20:23	1		HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 20:39	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/03/2020 20:39	1		HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 20:55	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/03/2020 20:55	1		HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 21:12	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/03/2020 21:12	1		HP-Plot Q 0.53 (mm)
ZZZZZ		06/03/2020 21:28	1		Rt-Alumina KCl 0.53 (mm)
ZZZZZ		06/03/2020 21:28	1		HP-Plot Q 0.53 (mm)
CCV 280-497247/31		06/03/2020 21:45	1		Rt-Alumina KCl 0.53 (mm)
CCV 280-497247/31		06/03/2020 21:45	1		HP-Plot Q 0.53 (mm)

GC VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Batch Number: 496925 Batch Start Date: 06/01/20 13:13 Batch Analyst: Scianna, Charles ABatch Method: RSK-175 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	RSK7gasMathes 00027	RSK7gasMathes 00031	
CCVRT 280-496925/4		RSK-175		18 mL	18 mL	5 SU		200 uL	
MB 280-496925/7		RSK-175		18 mL	18 mL	5 SU			
280-137048-H-1	EW7-PM21A-3-25	RSK-175	T	18 mL	18 mL	< 2 SU			
280-137048-G-2	EW7-PM22A-3-25	RSK-175	T	18 mL	18 mL	< 2 SU			
280-137048-H-1 DU	EW7-PM21A-3-25	RSK-175	T	18 mL	18 mL	< 2 SU			
280-137048-I-1 MS	EW7-PM21A-3-25	RSK-175	T	18 mL	18 mL	< 2 SU		200 uL	
280-137048-I-1 MSD	EW7-PM21A-3-25	RSK-175	T	18 mL	18 mL	< 2 SU		200 uL	
CCV 280-496925/33		RSK-175		18 mL	18 mL	5 SU		200 uL	
LCS 280-496925/34		RSK-175		18 mL	18 mL	5 SU	200 uL		
LCSD 280-496925/35		RSK-175		18 mL	18 mL	5 SU	200 uL		
CCV 280-496925/36		RSK-175		18 mL	18 mL	5 SU		200 uL	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Batch Number: 497247 Batch Start Date: 06/03/20 11:03 Batch Analyst: Scianna, Charles ABatch Method: RSK-175 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	RSK7gasMathes 00027	RSK7gasMathes 00031	
CCVRT 280-497247/4		RSK-175		18 mL	18 mL	5 SU		200 uL	
MB 280-497247/7		RSK-175		18 mL	18 mL	5 SU			
280-137048-I-2	EW7-PM22A-3-25	RSK-175	T	18 mL	18 mL	< 2 SU			
CCV 280-497247/21		RSK-175		18 mL	18 mL	5 SU		200 uL	
CCV 280-497247/32		RSK-175		18 mL	18 mL	5 SU		200 uL	
LCS 280-497247/33		RSK-175		18 mL	18 mL	5 SU	200 uL		
MB 280-497247/34		RSK-175		18 mL	18 mL	5 SU			
LCSD 280-497247/35		RSK-175		18 mL	18 mL	5 SU	200 uL		

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8330A_DOD5

Nitroaromatics and Nitramines (HPLC)

FORM II
HPLC/IC SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-137048-1

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 #
EW7-PM21A-3-25	280-137048-1		100
EW7-PM21A-3-25	280-137048-1	158 M Q	
EW7-PM22A-3-25	280-137048-2		103 M
EW7-PM22A-3-25	280-137048-2	305 M Q	
	MB 280-496861/1-A	94	
	LCS 280-496861/2-A	95	
	LCS 280-496861/4-A	95	
	LCSD 280-496861/3-A	96	

12DNB = 1,2-Dinitrobenzene

QC LIMITS
83-119

Column to be used to flag recovery values

FORM II 8330A

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 06110023.D
 Lab ID: LCS 280-496861/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.00	2.11	105	73-125	
1,3-Dinitrobenzene	2.00	2.00	100	78-120	
2,4,6-Trinitrotoluene	2.00	2.09	105	71-123	
2,4-Dinitrotoluene	2.00	1.85	93	78-120	
2,6-Dinitrotoluene	2.00	2.03	101	77-127	
2-Amino-4,6-dinitrotoluene	2.00	1.81	90	79-120	
2-Nitrotoluene	2.00	1.62	81	70-127	
3-Nitrotoluene	2.00	1.80	90	73-125	
4-Amino-2,6-dinitrotoluene	2.00	1.68	84	76-125	
4-Nitrotoluene	2.00	1.58	79	71-127	
HMX	2.00	2.00	100	65-135	
Nitrobenzene	2.00	1.88	94	65-134	
RDX	2.00	1.96	98	68-130	
Tetryl	2.00	1.90	95	64-128	

Column to be used to flag recovery and RPD values

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 06110025.D
Lab ID: LCS 280-496861/4-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
MNX	2.33	2.11	91	57-132	M

Column to be used to flag recovery and RPD values

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 06110024.D
 Lab ID: LCSD 280-496861/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,3,5-Trinitrobenzene	2.00	2.18	109	3	30	73-125	
1,3-Dinitrobenzene	2.00	2.05	103	3	30	78-120	
2,4,6-Trinitrotoluene	2.00	2.11	106	1	30	71-123	
2,4-Dinitrotoluene	2.00	1.93	96	4	30	78-120	
2,6-Dinitrotoluene	2.00	2.03	101	0	30	77-127	
2-Amino-4,6-dinitrotoluene	2.00	1.91	95	6	30	79-120	
2-Nitrotoluene	2.00	1.74	87	7	30	70-127	
3-Nitrotoluene	2.00	1.94	97	7	30	73-125	
4-Amino-2,6-dinitrotoluene	2.00	1.75	88	4	30	76-125	
4-Nitrotoluene	2.00	1.83	92	15	30	71-127	
HMX	2.00	2.03	102	2	30	65-135	M
Nitrobenzene	2.00	1.97	99	5	30	65-134	
RDX	2.00	2.03	102	4	30	68-130	
Tetryl	2.00	1.96	98	4	30	64-128	

Column to be used to flag recovery and RPD values

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: MB 280-496861/1-A
 Matrix: Water Date Extracted: 06/01/2020 10:20
 Lab File ID: (1) 06120010.D Lab File ID: (2) _____
 Date Analyzed: (1) 06/12/2020 14:35 Date Analyzed: (2) _____
 Instrument ID: (1) CHHPLC_X3 Instrument ID: (2) _____
 GC Column: (1) UltraCarb5uO ID: 4.6 (mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 280-496861/2-A	06/11/2020 21:06	
	LCSD 280-496861/3-A	06/11/2020 21:29	
	LCS 280-496861/4-A	06/11/2020 21:52	
EW7-PM21A-3-25	280-137048-1	06/12/2020 03:14	06/13/2020 05:32
EW7-PM22A-3-25	280-137048-2	06/12/2020 03:37	06/13/2020 06:07

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Client Sample ID: EW7-PM21A-3-25 Lab Sample ID: 280-137048-1
 Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA
 Date Analyzed (1): 06/12/2020 03:14 Date Analyzed (2): 06/13/2020 05:32
 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		7.77	7.63	7.93	7.3		167.8
	2		9.37	9.24	9.54	0.64		
1,3,5-Trinitrobenzene	1		8.95	8.77	9.07	6.6		11.4
	2		19.11	19.00	19.30	5.9		
2,4,6-Trinitrotoluene	1		11.27	11.12	11.32	11		12.1
	2		24.87	24.76	25.06	9.8		
2-Amino-4,6-dinitrotoluene	1		11.73	11.56	11.76	2.1		4.2
	2		18.37	18.28	18.58	2.0		
2,4-Dinitrotoluene	1		12.06	11.91	12.11	0.44		135.7
	2		20.59	20.45	20.75	0.084		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Client Sample ID: EW7-PM22A-3-25 Lab Sample ID: 280-137048-2
Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA
Date Analyzed (1): 06/12/2020 03:37 Date Analyzed (2): 06/13/2020 06:07
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	
Nitrobenzene	1		10.04	9.80	10.10	0.97		40.0
	2		12.27	12.13	12.43	0.65		

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins TestAmerica, Denver</u>	Job No.: <u>280-137048-1</u>
SDG No.: _____	
Client Sample ID: <u>EW7-PM21A-3-25</u>	Lab Sample ID: <u>280-137048-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>06110039.D</u>
Analysis Method: <u>8330A</u>	Date Collected: <u>05/28/2020 10:45</u>
Extraction Method: <u>3535</u>	Date Extracted: <u>06/01/2020 10:20</u>
Sample wt/vol: <u>464.2 (mL)</u>	Date Analyzed: <u>06/12/2020 03:14</u>
Con. Extract Vol.: <u>5 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>100 (uL)</u>	GC Column: <u>UltraCarb5uODS</u> ID: <u>4.6 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>498360</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	6.6	M Q	0.23	0.22	0.091
99-65-0	1,3-Dinitrobenzene	0.11	U M Q	0.12	0.11	0.040
118-96-7	2,4,6-Trinitrotoluene	11	M Q	0.12	0.11	0.048
121-14-2	2,4-Dinitrotoluene	0.44	J1 M Q	0.11	0.086	0.030
606-20-2	2,6-Dinitrotoluene	0.086	U Q	0.11	0.086	0.043
35572-78-2	2-Amino-4,6-dinitrotoluene	2.1	M Q	0.12	0.11	0.055
88-72-2	2-Nitrotoluene	0.22	U M Q	0.23	0.22	0.092
99-08-1	3-Nitrotoluene	0.43	U Q	0.43	0.43	0.21
19406-51-0	4-Amino-2,6-dinitrotoluene	0.13	U Q	0.16	0.13	0.062
99-99-0	4-Nitrotoluene	0.53	M Q	0.44	0.43	0.11
2691-41-0	HMX	0.22	U Q	0.23	0.22	0.094
98-95-3	Nitrobenzene	0.22	U M Q	0.23	0.22	0.098
121-82-4	RDX	7.3	J1 M Q	0.23	0.22	0.055
479-45-8	Tetryl	0.11	U M Q	0.12	0.11	0.034

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	158	M Q	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110039.D
 Lims ID: 280-137048-A-1-A
 Client ID: EW7-PM21A-3-25
 Sample Type: Client
 Inject. Date: 12-Jun-2020 03:14:51 ALS Bottle#: 39 Worklist Smp#: 39
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: 280-137048-A-1-A
 Misc. Info.: 280-0092324-039
 Operator ID: JZ Instrument ID: CHHPLC_X3
 Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 12-Jun-2020 12:39:47 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX1034

First Level Reviewer: zhangji

Date: 12-Jun-2020 11:22:58

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1		6.696			ND	
6 MNX	1	7.381	7.407	-0.026	107467	0.6778	M
7 RDX	1	7.767	7.776	-0.009	79293	0.6800	Ma
\$ 9 1,2-Dinitrobenzene	1	8.781	8.743	0.038	43798	0.3169	M
10 1,3,5-Trinitrobenzene	1	8.947	8.916	0.031	140381	0.6095	M
11 1,3-Dinitrobenzene	1		9.569			ND	U
12 Nitrobenzene	1		9.949			ND	U
14 Tetryl	1		10.256			ND	U
16 2,4,6-Trinitrotoluene	1	11.267	11.222	0.045	210513	1.03	M
17 4-Amino-2,6-dinitrotoluene	1		11.376			ND	
18 2-Amino-4,6-dinitrotoluene	1	11.727	11.662	0.065	39150	0.1930	M
19 2,6-Dinitrotoluene	1		11.809			ND	
20 2,4-Dinitrotoluene	1	12.060	12.009	0.051	12380	0.0408	M
21 o-Nitrotoluene	1		12.842			ND	U
22 p-Nitrotoluene	1	13.314	13.276	0.038	5553	0.0491	M
23 m-Nitrotoluene	1		13.862			ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Report Date: 12-Jun-2020 12:39:50

Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110039.d

Injection Date: 12-Jun-2020 03:14:51

Instrument ID: CHHPLC_X3

Operator ID: JZ

Lims ID: 280-137048-A-1-A

Lab Sample ID: 280-137048-1

Worklist Smp#: 39

Client ID: EW7-PM21A-3-25

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

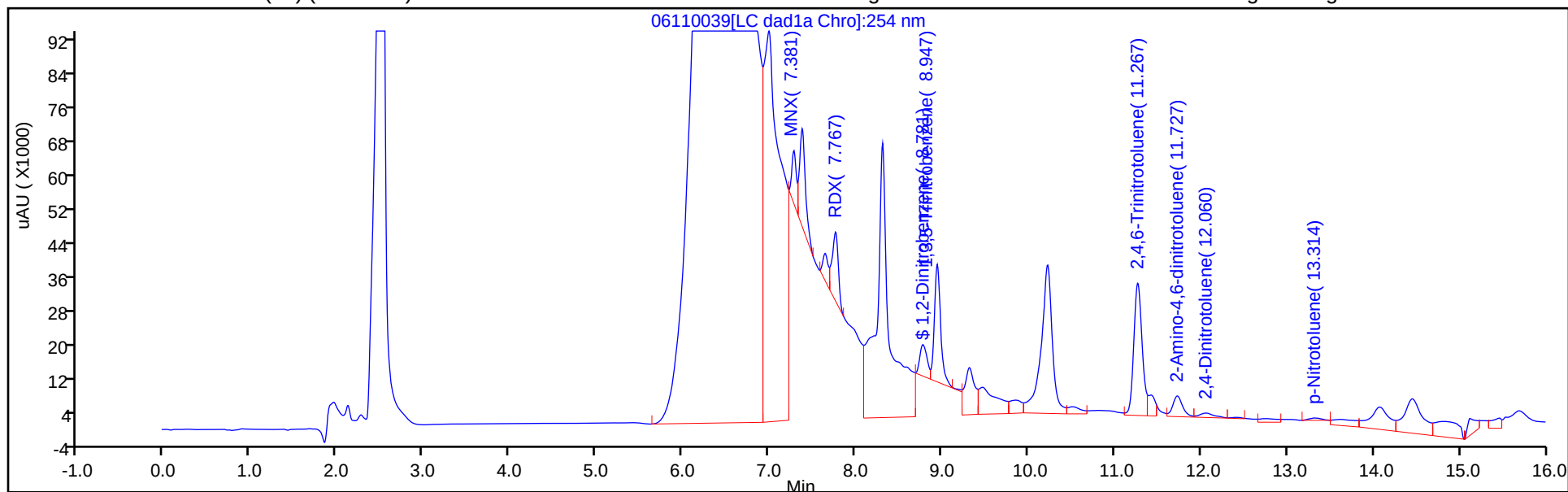
ALS Bottle#: 39

Method: 8330_X3

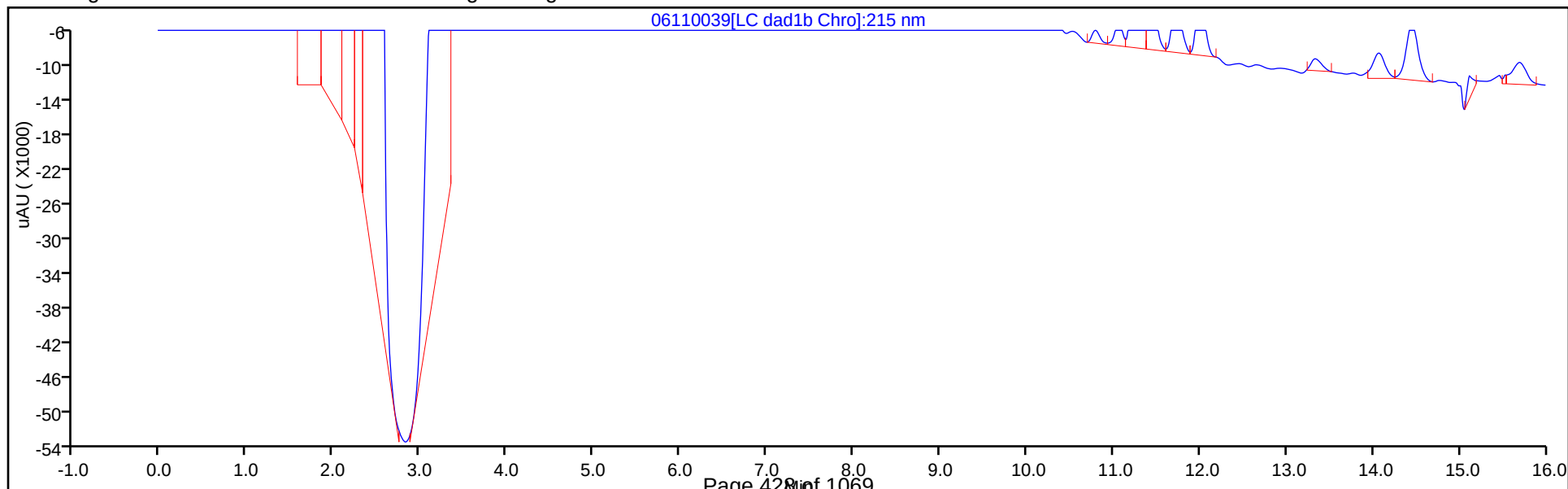
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110039.D
Lims ID: 280-137048-A-1-A
Client ID: EW7-PM21A-3-25
Sample Type: Client
Inject. Date: 12-Jun-2020 03:14:51 ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137048-A-1-A
Misc. Info.: 280-0092324-039
Operator ID: JZ Instrument ID: CHHPLC_X3
Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 12-Jun-2020 12:39:47 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1034

First Level Reviewer: zhangji

Date: 12-Jun-2020 11:22:58

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,2-Dinitrobenzene	0.2000	0.3169	158.44

Eurofins TestAmerica, Denver

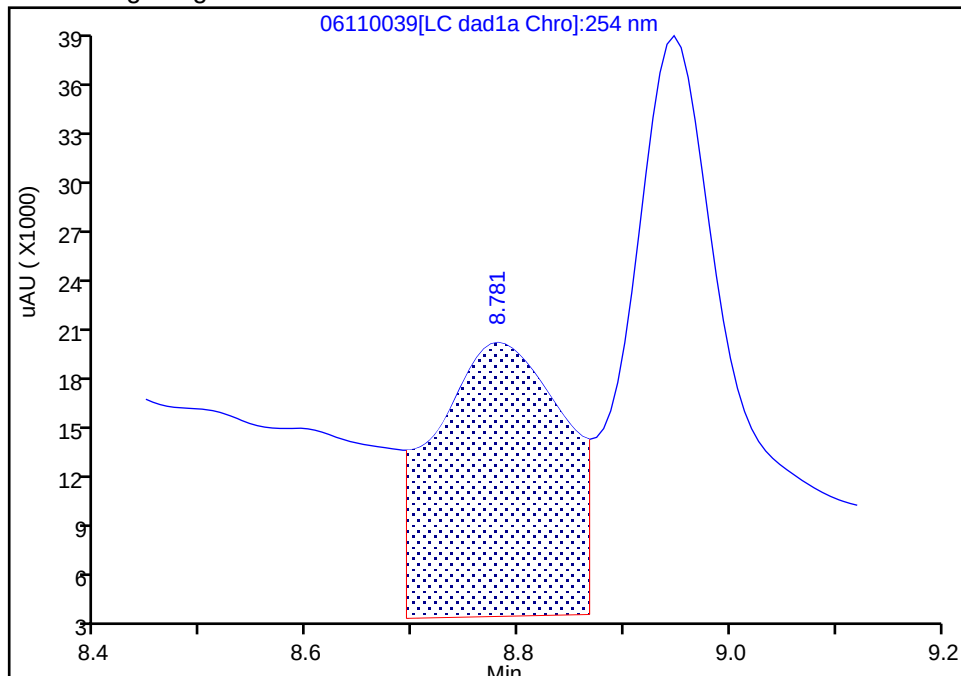
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110039.d
Injection Date: 12-Jun-2020 03:14:51 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-1-A Lab Sample ID: 280-137048-1
Client ID: EW7-PM21A-3-25
Operator ID: JZ ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

\$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

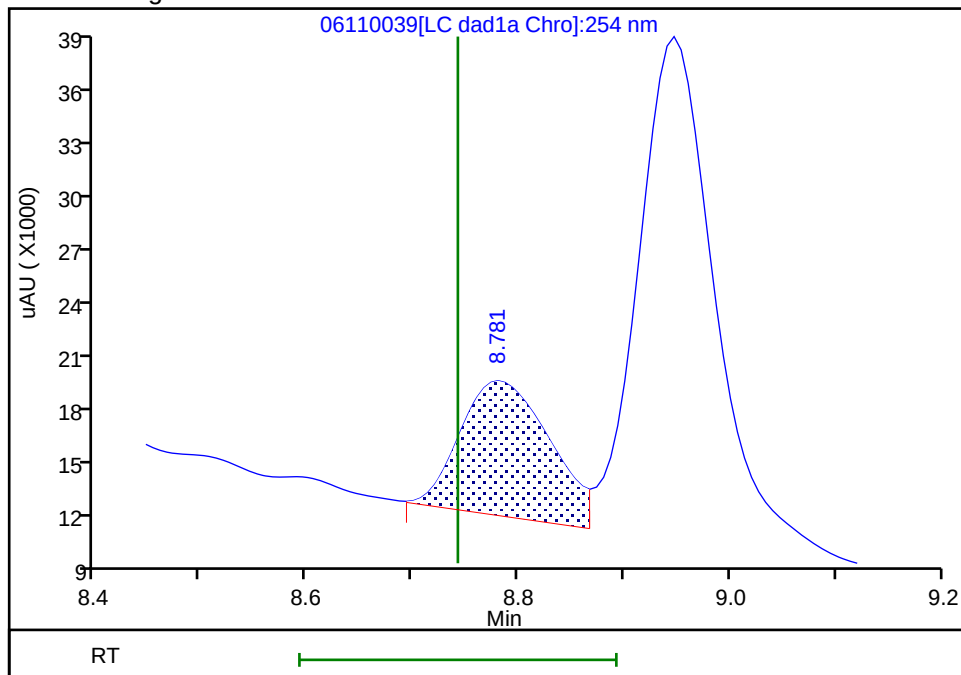
RT: 8.78
Area: 142317
Amount: 1.029699
Amount Units: ug/mL

Processing Integration Results



RT: 8.78
Area: 43798
Amount: 0.316889
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:21:36
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

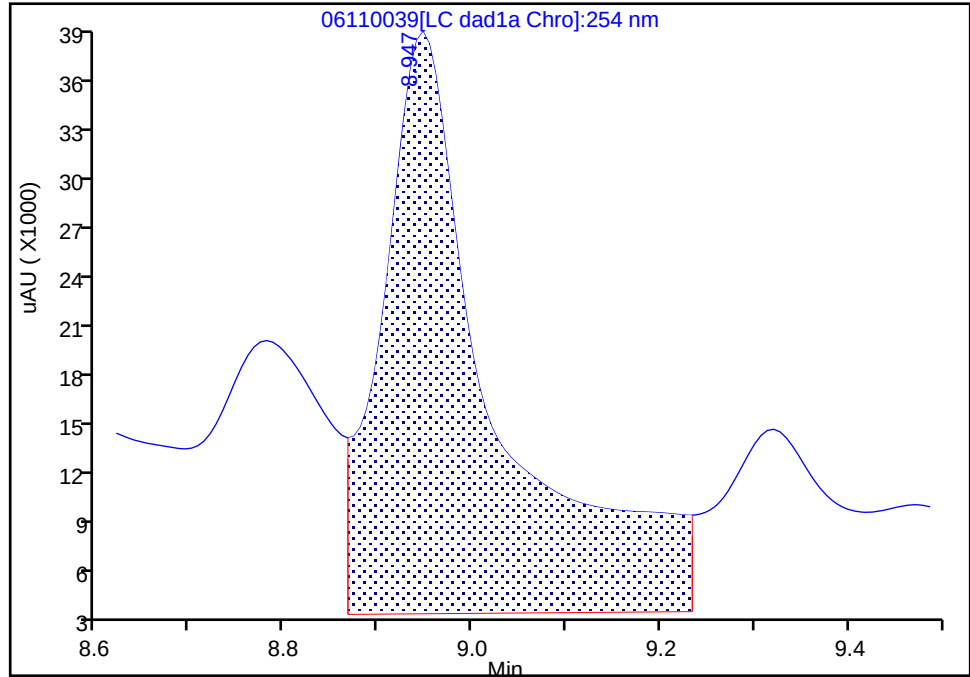
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110039.d
Injection Date: 12-Jun-2020 03:14:51 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-1-A Lab Sample ID: 280-137048-1
Client ID: EW7-PM21A-3-25
Operator ID: JZ ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

10 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

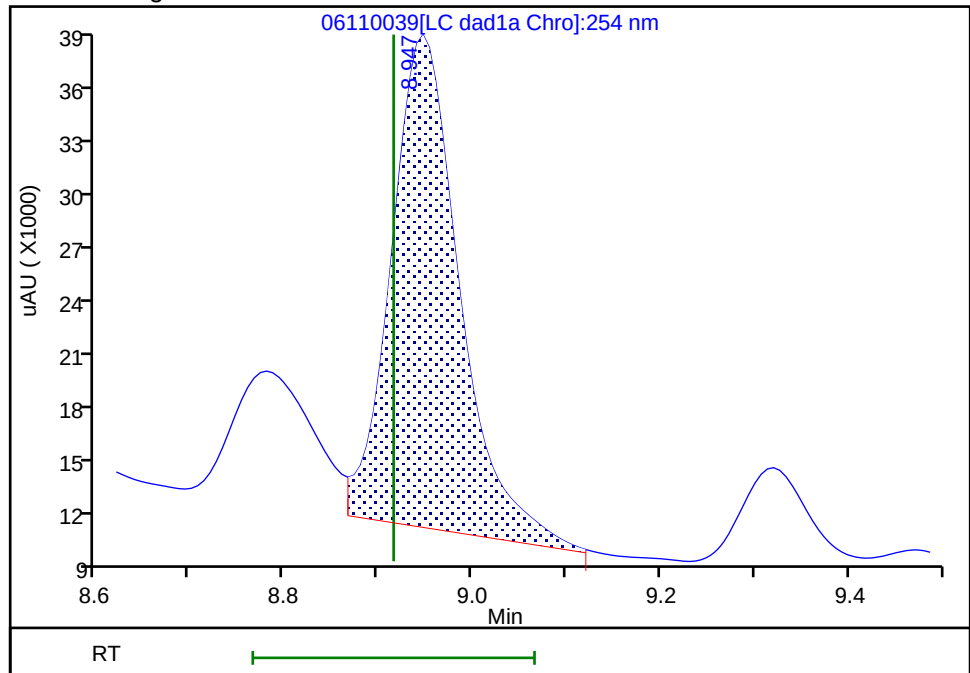
RT: 8.95
Area: 296824
Amount: 1.288808
Amount Units: ug/mL

Processing Integration Results



RT: 8.95
Area: 140381
Amount: 0.609534
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:21:40
Audit Action: Split an Integrated Peak

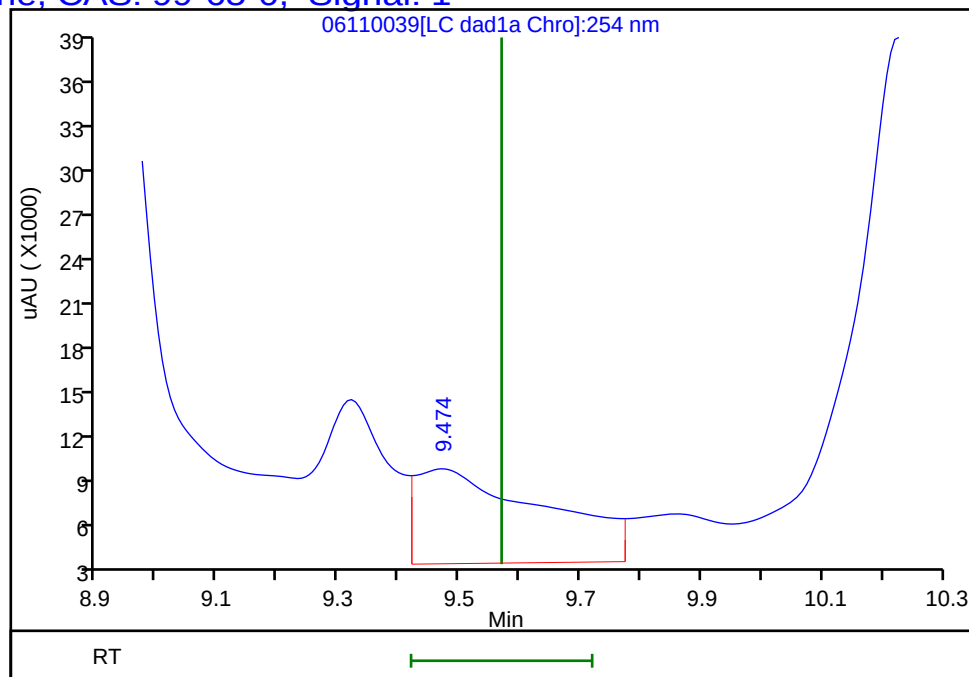
Audit Reason: Baseline

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110039.d
Injection Date: 12-Jun-2020 03:14:51 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-1-A Lab Sample ID: 280-137048-1
Client ID: EW7-PM21A-3-25
Operator ID: JZ ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

11 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.47
Response: 93199
Amount: 0.303891



Reviewer: zhangji, 12-Jun-2020 11:22:58

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver

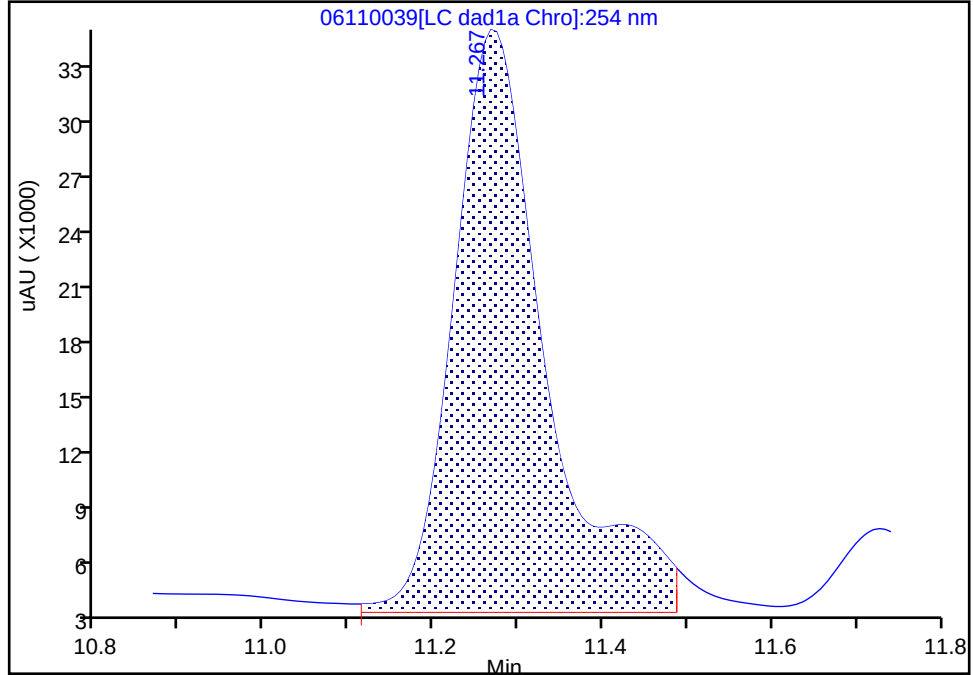
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110039.d
Injection Date: 12-Jun-2020 03:14:51 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-1-A Lab Sample ID: 280-137048-1
Client ID: EW7-PM21A-3-25
Operator ID: JZ ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

16 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

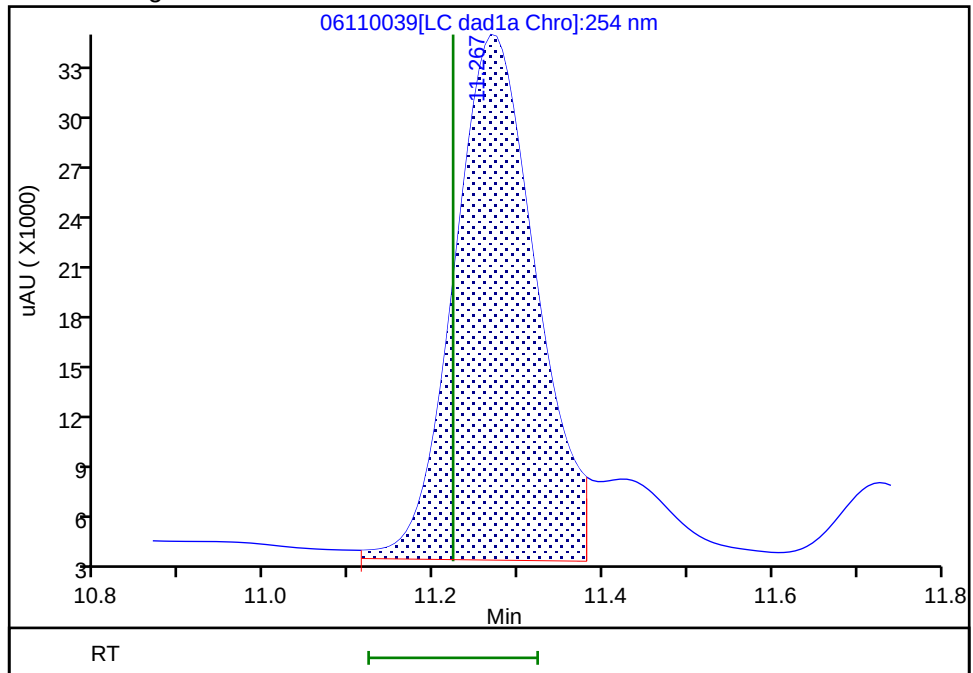
RT: 11.27
Area: 235010
Amount: 1.151835
Amount Units: ug/mL

Processing Integration Results



RT: 11.27
Area: 210513
Amount: 1.031770
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:22:50

Audit Action: Split an Integrated Peak

Audit Reason: Baseline

Eurofins TestAmerica, Denver

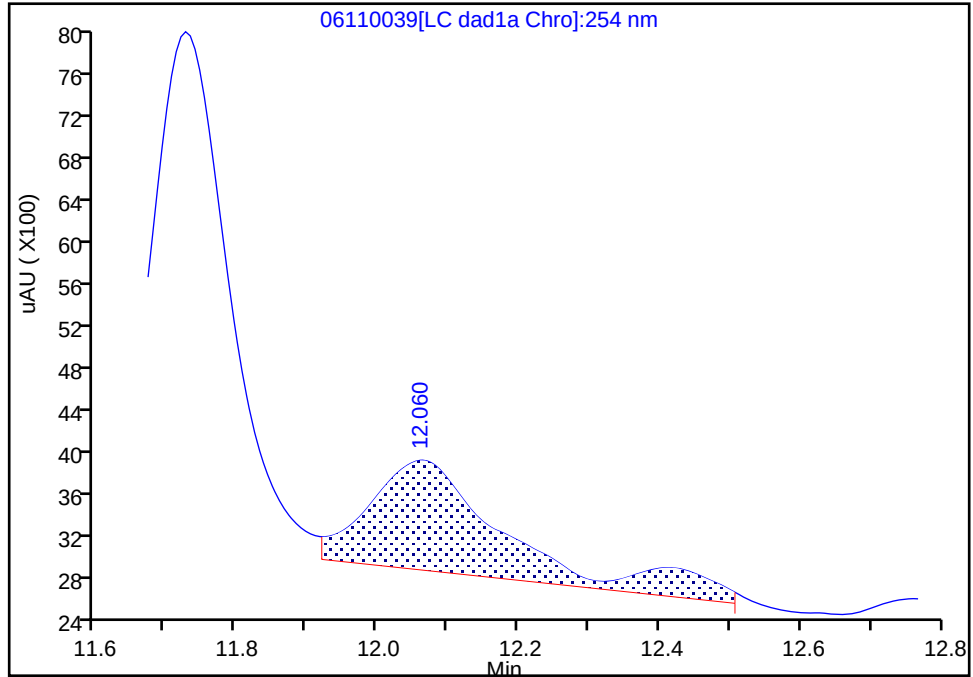
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110039.d
Injection Date: 12-Jun-2020 03:14:51 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-1-A Lab Sample ID: 280-137048-1
Client ID: EW7-PM21A-3-25
Operator ID: JZ ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

20 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

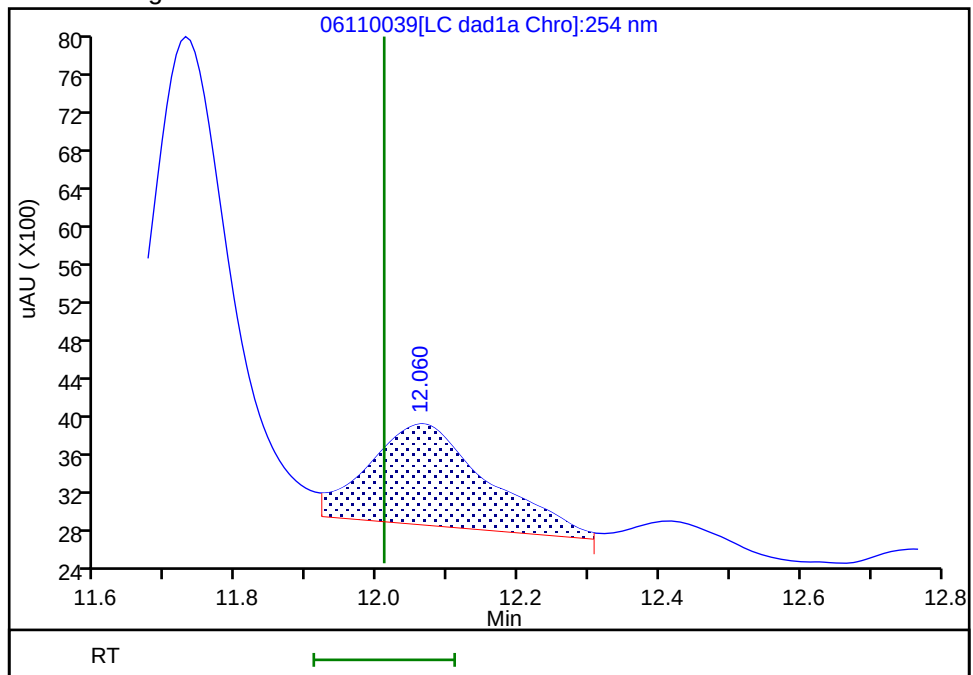
RT: 12.06
Area: 14284
Amount: 0.047051
Amount Units: ug/mL

Processing Integration Results



RT: 12.06
Area: 12380
Amount: 0.040779
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:22:33

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

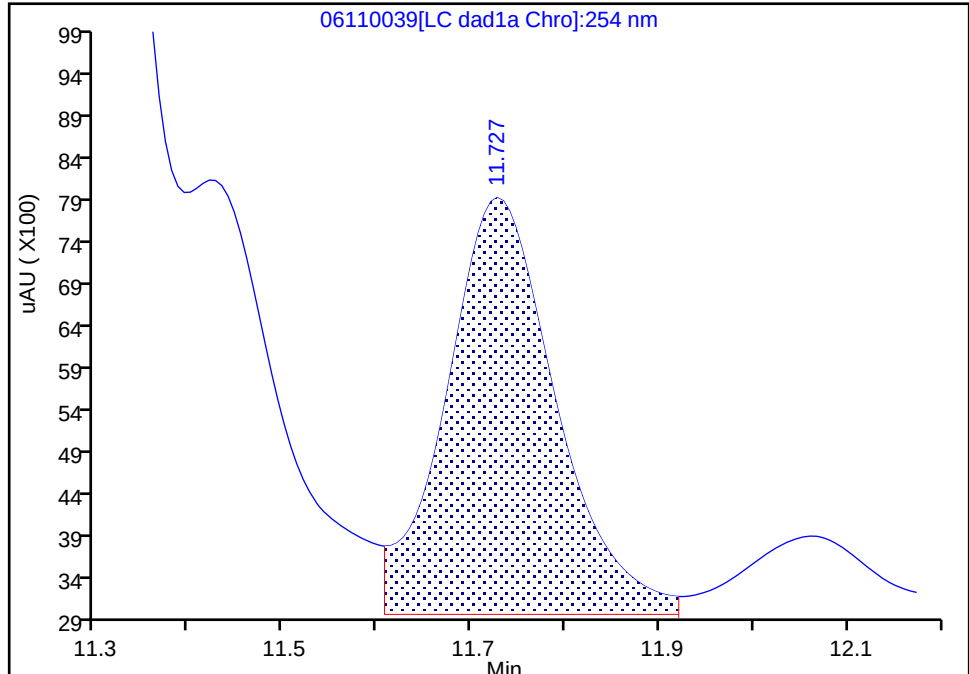
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110039.d
Injection Date: 12-Jun-2020 03:14:51 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-1-A Lab Sample ID: 280-137048-1
Client ID: EW7-PM21A-3-25
Operator ID: JZ ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

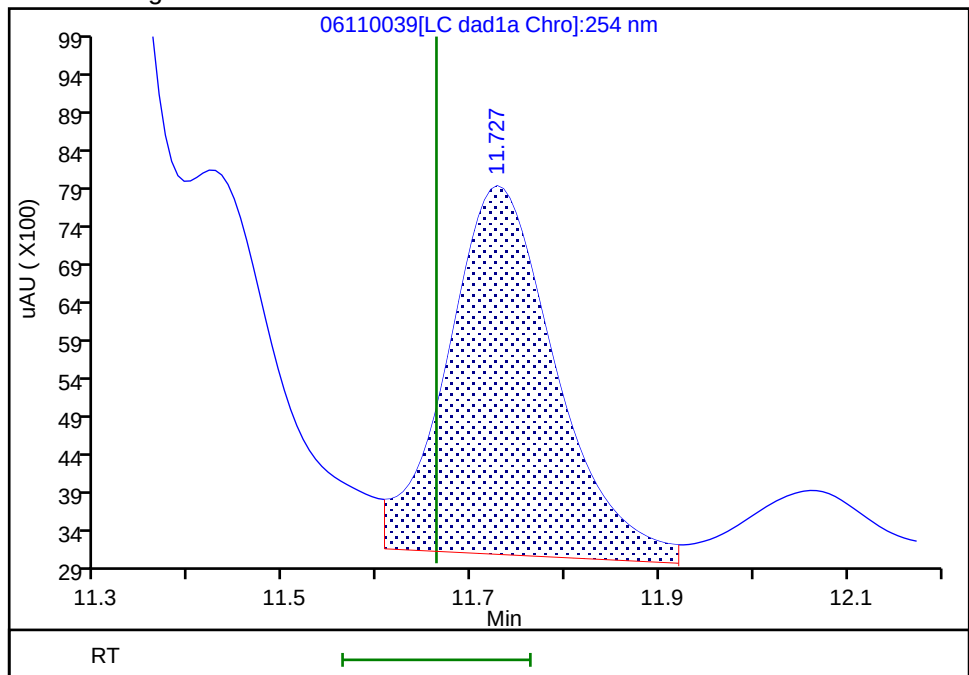
RT: 11.73
Area: 40363
Amount: 0.199012
Amount Units: ug/mL

Processing Integration Results



RT: 11.73
Area: 39150
Amount: 0.193031
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:22:33
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

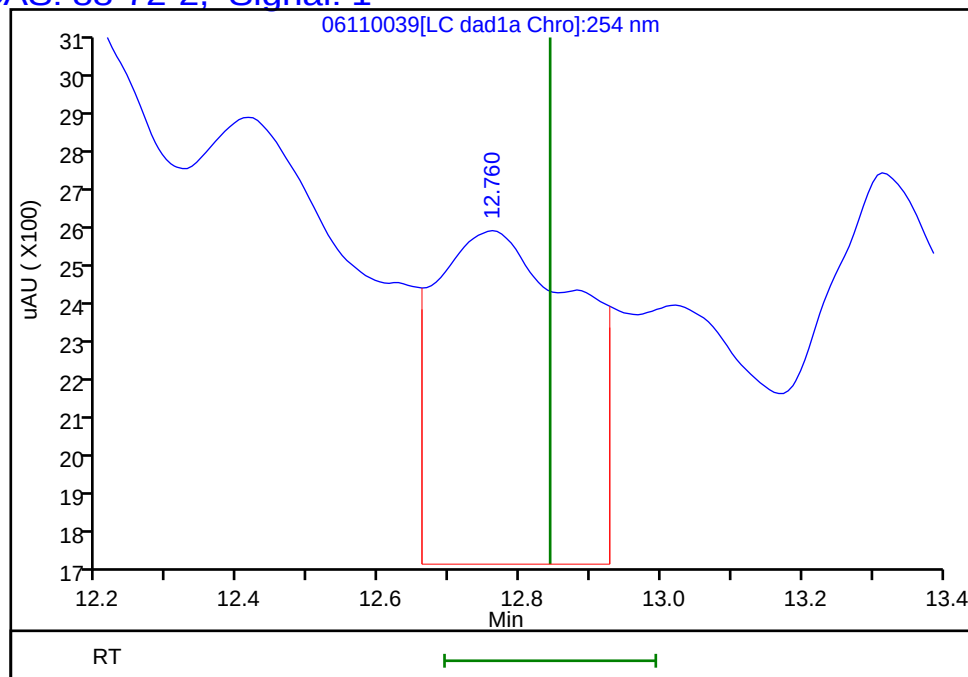
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110039.d
Injection Date: 12-Jun-2020 03:14:51 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-1-A Lab Sample ID: 280-137048-1
Client ID: EW7-PM21A-3-25
Operator ID: JZ
Injection Vol: 100.0 ul
Method: 8330_X3

ALS Bottle#: 39 Worklist Smp#: 39
Dil. Factor: 1.0000
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

21 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 12.76
Response: 12135
Amount: 0.089855



Reviewer: zhangji, 12-Jun-2020 11:22:58

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver

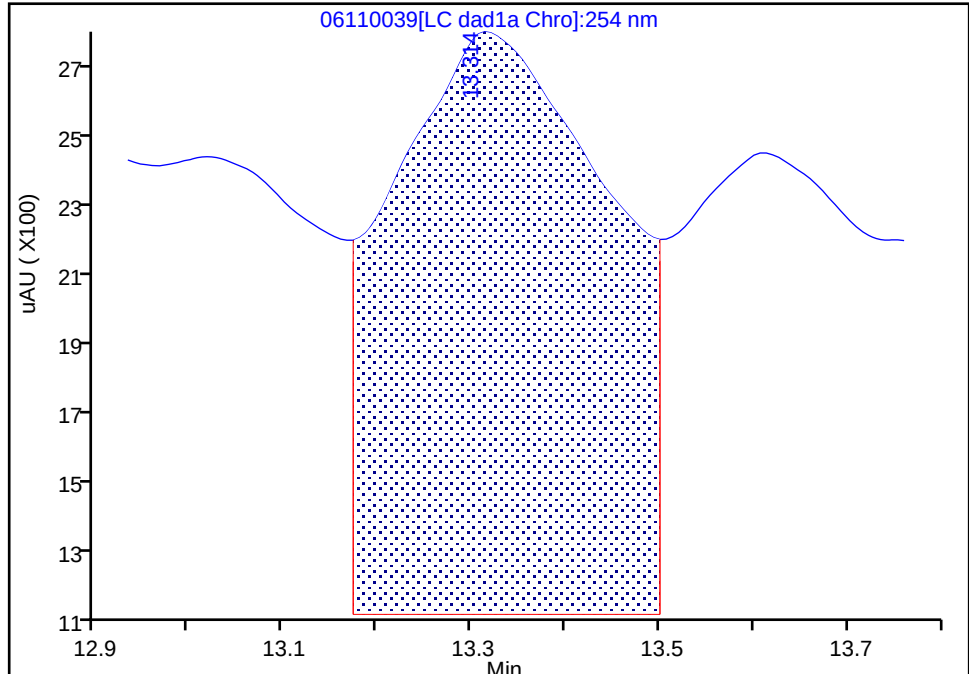
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110039.d
Injection Date: 12-Jun-2020 03:14:51 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-1-A Lab Sample ID: 280-137048-1
Client ID: EW7-PM21A-3-25
Operator ID: JZ ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

22 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

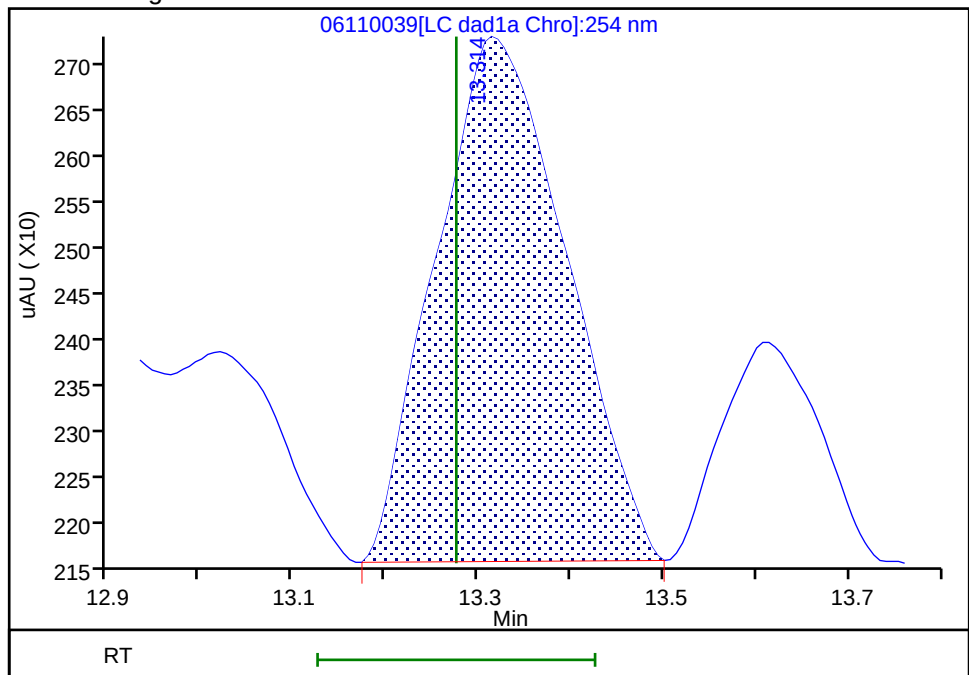
RT: 13.31
Area: 25584
Amount: 0.226397
Amount Units: ug/mL

Processing Integration Results



RT: 13.31
Area: 5553
Amount: 0.049139
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:22:14
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

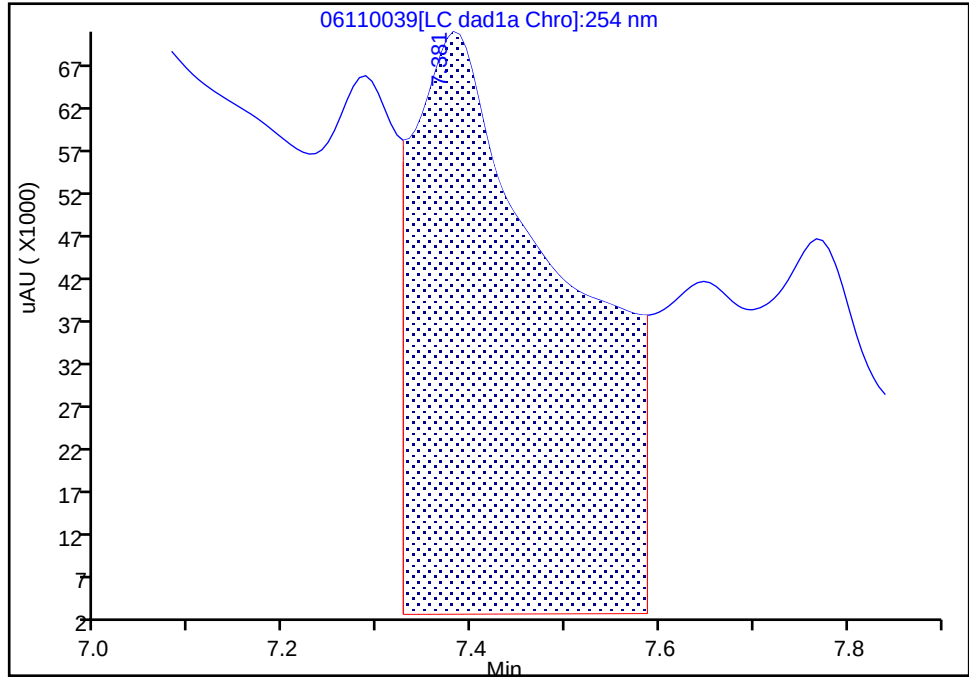
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110039.d
Injection Date: 12-Jun-2020 03:14:51 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-1-A Lab Sample ID: 280-137048-1
Client ID: EW7-PM21A-3-25
Operator ID: JZ ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

6 MNX, CAS: 5755-27-1

Signal: 1

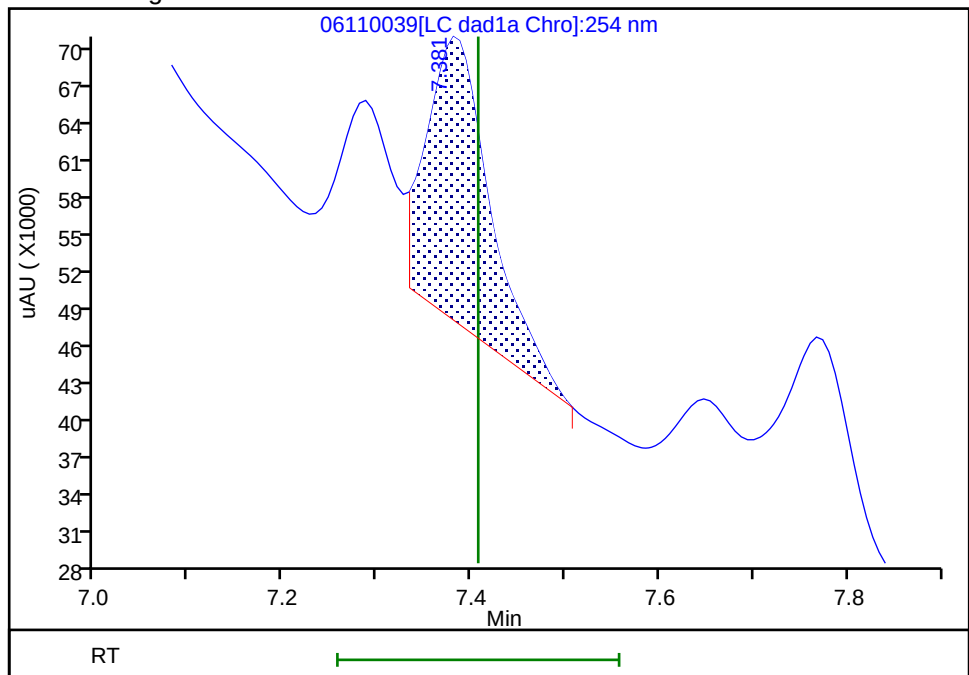
RT: 7.38
Area: 755841
Amount: 4.767383
Amount Units: ug/mL

Processing Integration Results



RT: 7.38
Area: 107467
Amount: 0.677836
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:19:59

Audit Action: Split an Integrated Peak

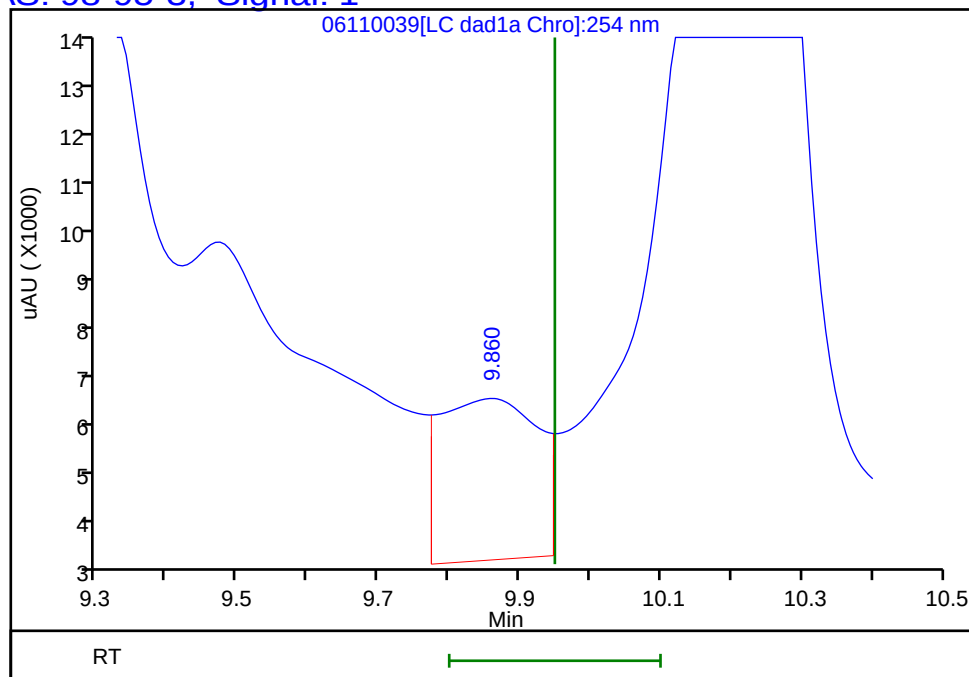
Audit Reason: Baseline

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110039.d
Injection Date: 12-Jun-2020 03:14:51 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-1-A Lab Sample ID: 280-137048-1
Client ID: EW7-PM21A-3-25
Operator ID: JZ ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

12 Nitrobenzene, CAS: 98-95-3, Signal: 1

RT: 9.86
Response: 29794
Amount: 0.148671



Reviewer: zhangji, 12-Jun-2020 11:22:58

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver

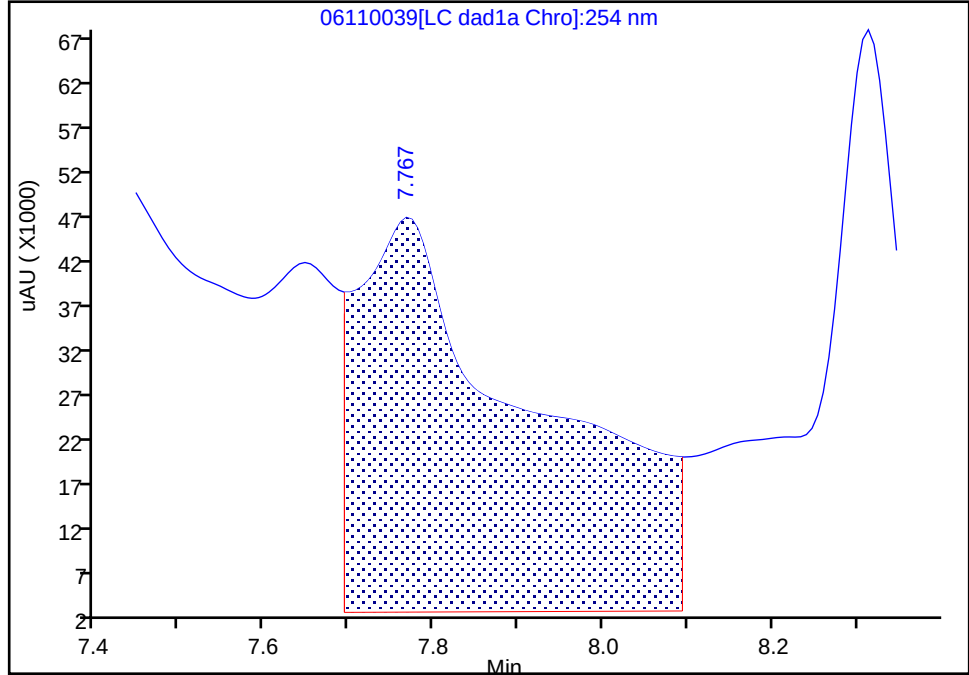
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110039.d
Injection Date: 12-Jun-2020 03:14:51 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-1-A Lab Sample ID: 280-137048-1
Client ID: EW7-PM21A-3-25
Operator ID: JZ ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

7 RDX, CAS: 121-82-4

Signal: 1

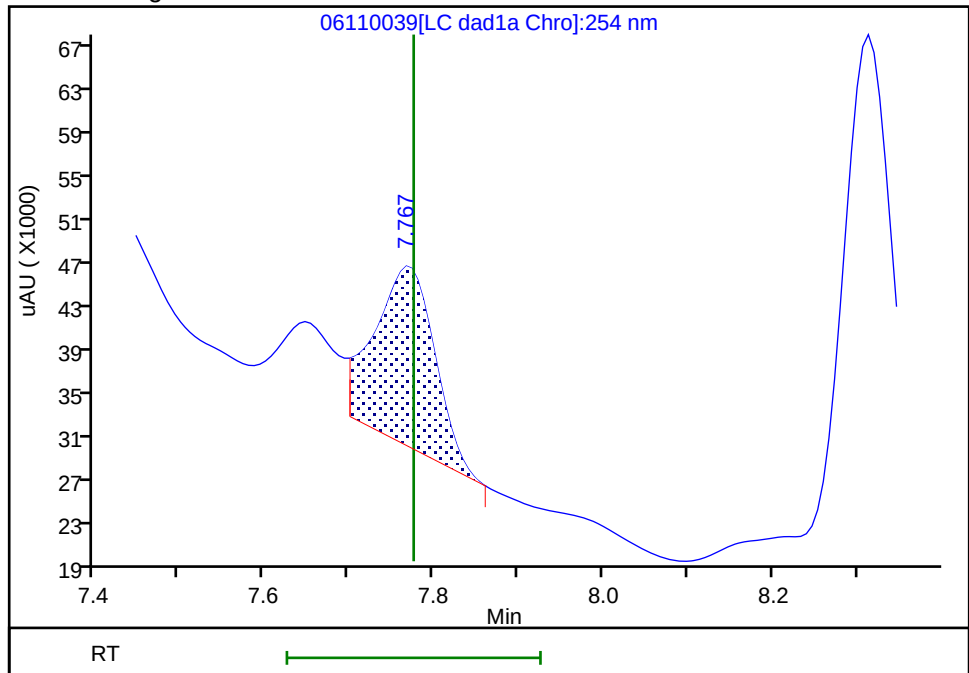
RT: 7.77
Area: 643663
Amount: 5.519647
Amount Units: ug/mL

Processing Integration Results



RT: 7.77
Area: 79293
Amount: 0.679967
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:21:22
Audit Action: Split an Integrated Peak

Audit Reason: Baseline

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110039.d
Injection Date: 12-Jun-2020 03:14:51 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-1-A Lab Sample ID: 280-137048-1
Client ID: EW7-PM21A-3-25
Operator ID: JZ
Injection Vol: 100.0 ul
Method: 8330_X3

ALS Bottle#: 39 Worklist Smp#: 39

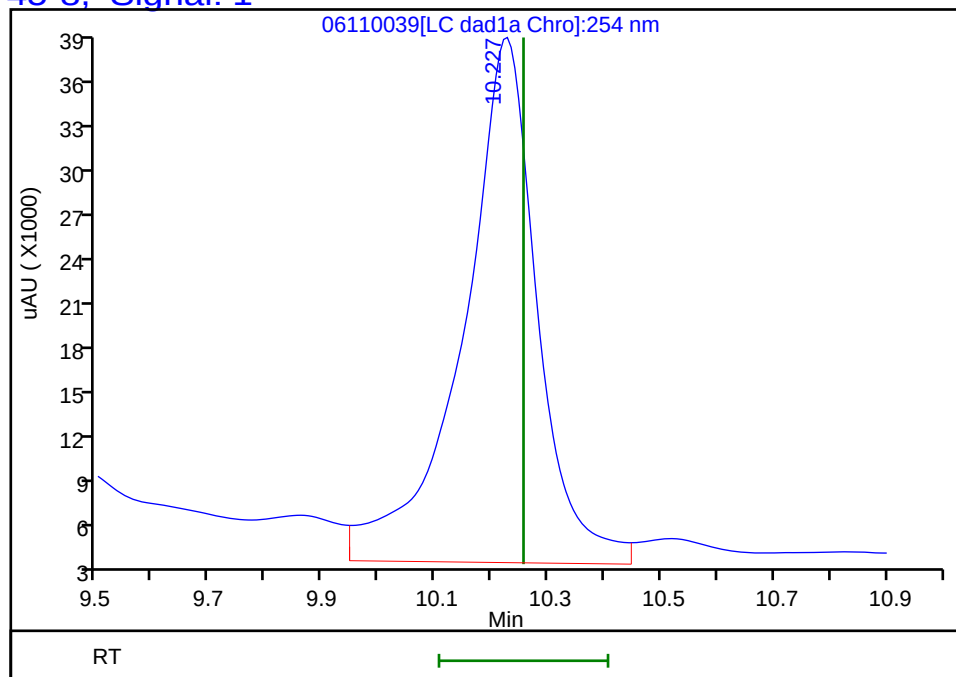
Dil. Factor: 1.0000

Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 10.23
Response: 321126
Amount: 1.813944



Reviewer: zhangji, 12-Jun-2020 11:22:58

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins TestAmerica, Denver</u>	Job No.: <u>280-137048-1</u>
SDG No.: _____	
Client Sample ID: <u>EW7-PM21A-3-25</u>	Lab Sample ID: <u>280-137048-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>06120028.D</u>
Analysis Method: <u>8330A</u>	Date Collected: <u>05/28/2020 10:45</u>
Extraction Method: <u>3535</u>	Date Extracted: <u>06/01/2020 10:20</u>
Sample wt/vol: <u>464.2 (mL)</u>	Date Analyzed: <u>06/13/2020 05:32</u>
Con. Extract Vol.: <u>5 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>100 (uL)</u>	GC Column: <u>Luna-phenylhex</u> ID: <u>4.6 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>498568</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
121-14-2	2,4-Dinitrotoluene	0.084	J J1	0.11	0.086	0.030
5755-27-1	MNX	0.43	U	2.2	0.43	0.17
121-82-4	RDX	0.64	J1	0.23	0.22	0.055

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	100		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\06120028.D
 Lims ID: 280-137048-A-1-A
 Client ID: EW7-PM21A-3-25
 Sample Type: Client
 Inject. Date: 13-Jun-2020 05:32:43 ALS Bottle#: 28 Worklist Smp#: 28
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: 280-137048-A-1-A
 Misc. Info.: 280-0092371-028
 Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 16-Jun-2020 18:53:19 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX1024

First Level Reviewer: zhangji

Date: 16-Jun-2020 17:55:10

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
6 HMX	1		7.161			ND	
7 MNX	1		7.876			ND	
8 RDX	1	9.366	9.387	-0.021	14545	0.0595	
9 Nitrobenzene	1		12.281			ND	
\$ 10 1,2-Dinitrobenzene	1	13.266	13.294	-0.028	57396	0.2004	
12 1,3-Dinitrobenzene	1		15.827			ND	
14 o-Nitrotoluene	1		16.747			ND	U
15 p-Nitrotoluene	1		17.041			ND	
16 4-Amino-2,6-dinitrotoluene	1		17.487			ND	
17 m-Nitrotoluene	1		17.967			ND	U
18 2-Amino-4,6-dinitrotoluene	1	18.366	18.427	-0.061	86135	0.1852	
19 1,3,5-Trinitrobenzene	1	19.112	19.154	-0.042	256788	0.5435	
20 2,6-Dinitrotoluene	1		20.081			ND	
21 2,4-Dinitrotoluene	1	20.586	20.601	-0.015	5002	0.007814	
22 Tetryl	1		23.908			ND	
23 2,4,6-Trinitrotoluene	1	24.866	24.914	-0.048	370108	0.9137	

QC Flag Legend

Review Flags

U - Marked Undetected

Report Date: 16-Jun-2020 18:53:22

Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120028.d

Injection Date: 13-Jun-2020 05:32:43

Instrument ID: CHHPLC_G2_LUNA

Operator ID: JZ

Lims ID: 280-137048-A-1-A

Lab Sample ID: 280-137048-1

Worklist Smp#: 28

Client ID: EW7-PM21A-3-25

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

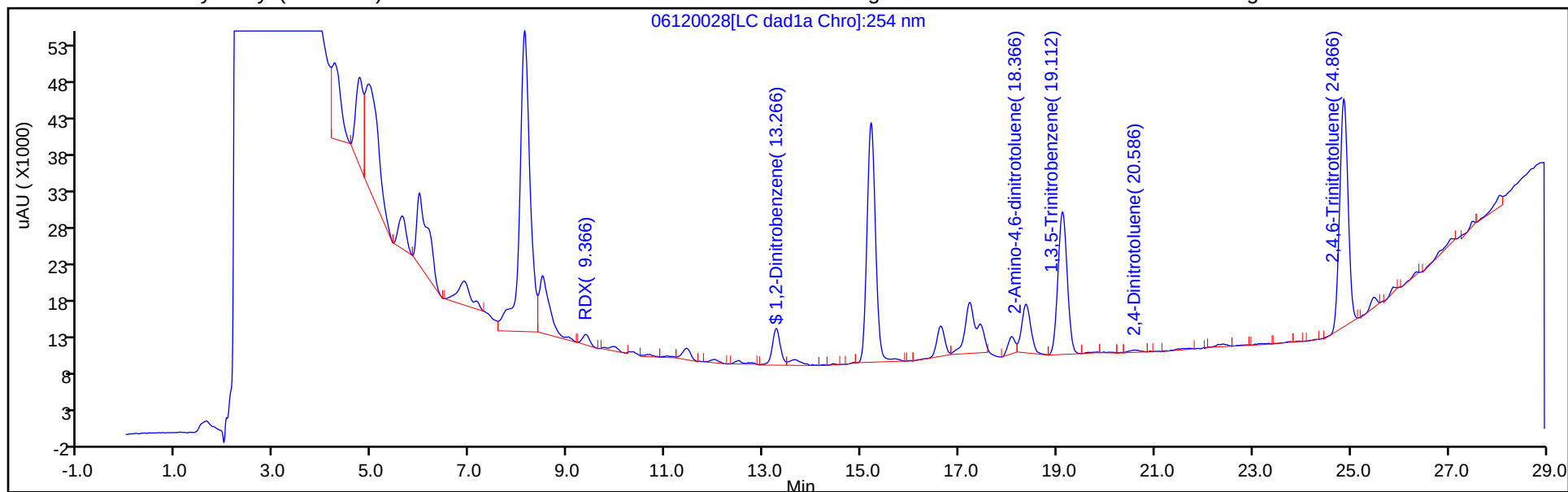
ALS Bottle#: 28

Method: G2_8330_Luna

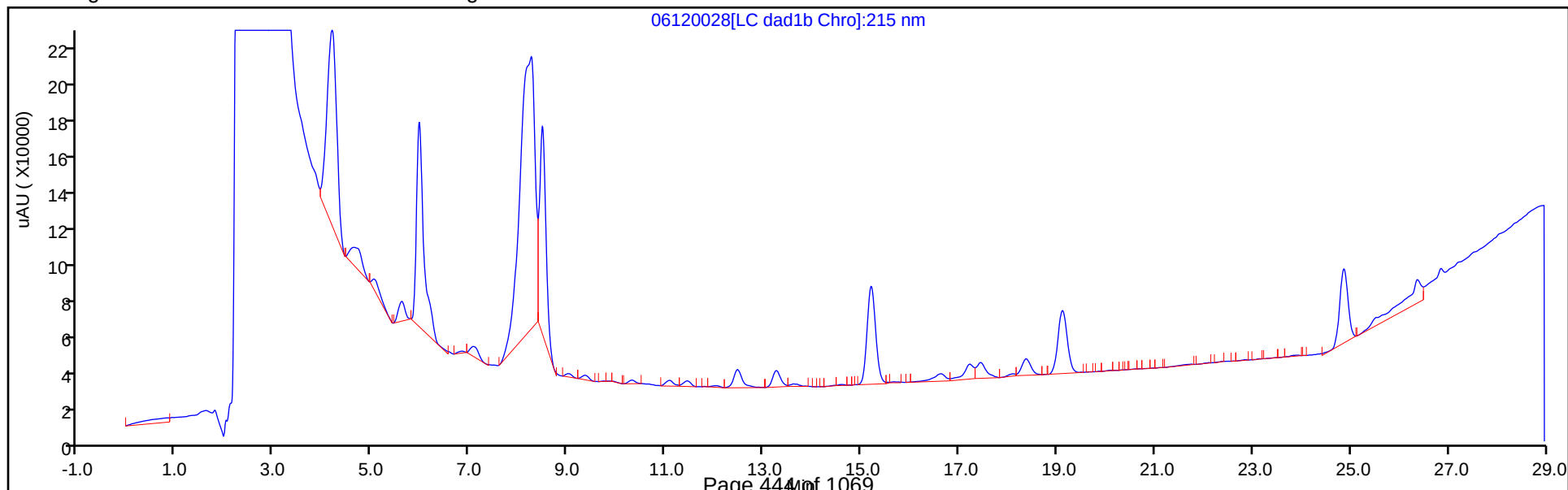
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\06120028.D
Lims ID: 280-137048-A-1-A
Client ID: EW7-PM21A-3-25
Sample Type: Client
Inject. Date: 13-Jun-2020 05:32:43 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137048-A-1-A
Misc. Info.: 280-0092371-028
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
Method: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 16-Jun-2020 18:53:19 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1024

First Level Reviewer: zhangji

Date: 16-Jun-2020 17:55:10

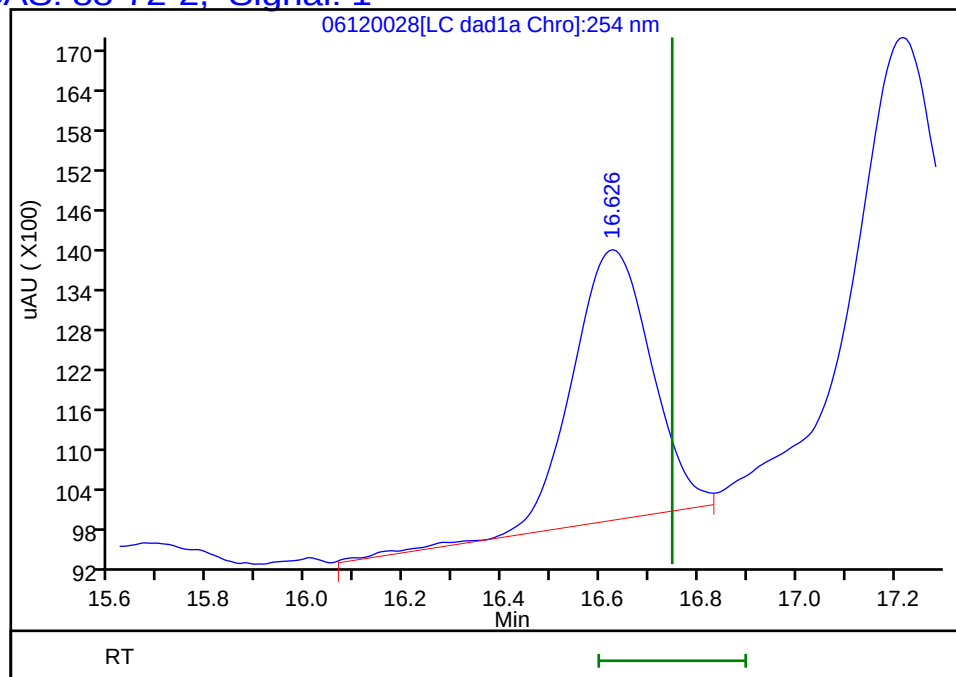
Compound	Amount Added	Amount Recovered	% Rec.
\$ 10 1,2-Dinitrobenzene	0.2000	0.2004	100.20

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120028.d
Injection Date: 13-Jun-2020 05:32:43 Instrument ID: CHHPLC_G2_LUNA
Lims ID: 280-137048-A-1-A Lab Sample ID: 280-137048-1
Client ID: EW7-PM21A-3-25
Operator ID: JZ ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.63
Response: 46644
Amount: 0.170879



Reviewer: zhangji, 16-Jun-2020 17:55:10

Audit Action: Marked Compound Undetected

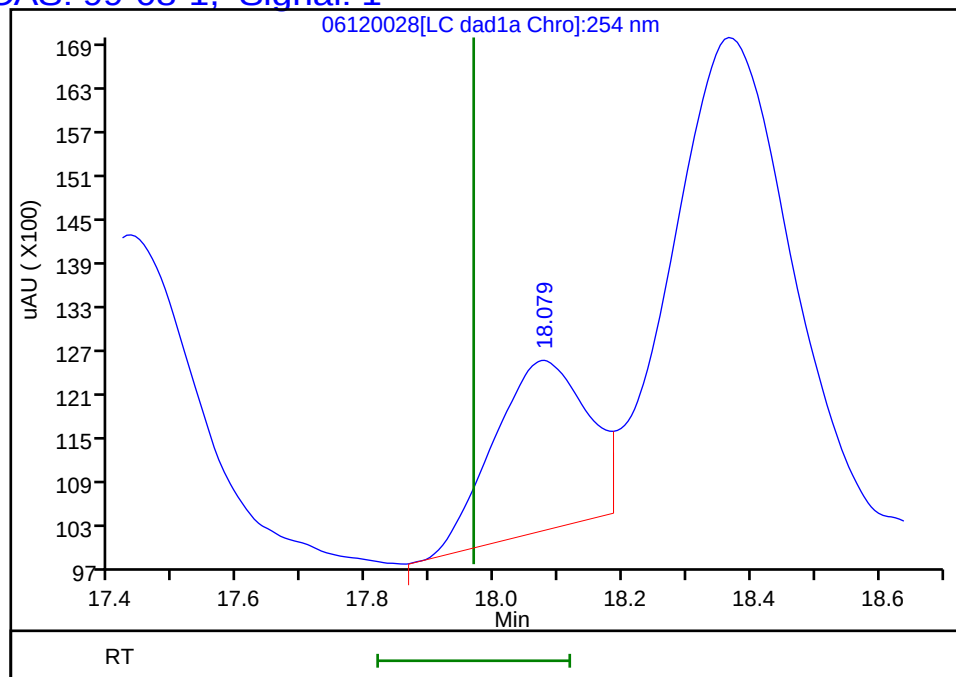
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120028.d
Injection Date: 13-Jun-2020 05:32:43 Instrument ID: CHHPLC_G2_LUNA
Lims ID: 280-137048-A-1-A Lab Sample ID: 280-137048-1
Client ID: EW7-PM21A-3-25
Operator ID: JZ ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

17 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 18.08
Response: 23864
Amount: 0.079993



Reviewer: zhangji, 16-Jun-2020 17:55:10

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins TestAmerica, Denver</u>	Job No.: <u>280-137048-1</u>
SDG No.: _____	
Client Sample ID: <u>EW7-PM22A-3-25</u>	Lab Sample ID: <u>280-137048-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>06110040.D</u>
Analysis Method: <u>8330A</u>	Date Collected: <u>05/28/2020 12:25</u>
Extraction Method: <u>3535</u>	Date Extracted: <u>06/01/2020 10:20</u>
Sample wt/vol: <u>467(mL)</u>	Date Analyzed: <u>06/12/2020 03:37</u>
Con. Extract Vol.: <u>5(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>100(uL)</u>	GC Column: <u>UltraCarb5uODS</u> ID: <u>4.6(mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>498360</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.21	U M Q	0.22	0.21	0.090
99-65-0	1,3-Dinitrobenzene	0.11	U M Q	0.12	0.11	0.040
118-96-7	2,4,6-Trinitrotoluene	0.11	U Q	0.12	0.11	0.048
606-20-2	2,6-Dinitrotoluene	0.086	U M Q	0.11	0.086	0.043
35572-78-2	2-Amino-4,6-dinitrotoluene	0.11	U Q	0.12	0.11	0.054
88-72-2	2-Nitrotoluene	0.21	U Q	0.22	0.21	0.092
99-08-1	3-Nitrotoluene	0.43	U Q	0.43	0.43	0.21
99-99-0	4-Nitrotoluene	0.43	U M Q	0.44	0.43	0.11
5755-27-1	MNX	0.43	U M	2.1	0.43	0.16
98-95-3	Nitrobenzene	0.97	M Q	0.22	0.21	0.097
121-82-4	RDX	0.21	U M Q	0.22	0.21	0.055
479-45-8	Tetryl	0.11	U M Q	0.12	0.11	0.034

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	305	M Q	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110040.D
 Lims ID: 280-137048-A-2-A
 Client ID: EW7-PM22A-3-25
 Sample Type: Client
 Inject. Date: 12-Jun-2020 03:37:49 ALS Bottle#: 40 Worklist Smp#: 40
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: 280-137048-A-2-A
 Misc. Info.: 280-0092324-040
 Operator ID: JZ Instrument ID: CHHPLC_X3
 Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 12-Jun-2020 12:39:47 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX1034

First Level Reviewer: zhangji

Date: 12-Jun-2020 11:24:31

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1	6.748	6.696	0.052	185553	2.16	M
6 MNX	1		7.407			ND	U
7 RDX	1		7.776			ND	U
\$ 9 1,2-Dinitrobenzene	1	8.808	8.743	0.065	84222	0.6094	M
10 1,3,5-Trinitrobenzene	1		8.916			ND	U
11 1,3-Dinitrobenzene	1		9.569			ND	U
12 Nitrobenzene	1	10.035	9.949	0.086	18195	0.0908	M
14 Tetryl	1		10.256			ND	MU
16 2,4,6-Trinitrotoluene	1		11.222			ND	
17 4-Amino-2,6-dinitrotoluene	1	11.461	11.376	0.085	10090	0.0631	M
18 2-Amino-4,6-dinitrotoluene	1		11.662			ND	
19 2,6-Dinitrotoluene	1		11.809			ND	MU
20 2,4-Dinitrotoluene	1	12.048	12.009	0.039	11986	0.0395	M
21 o-Nitrotoluene	1		12.842			ND	
22 p-Nitrotoluene	1		13.276			ND	U
23 m-Nitrotoluene	1		13.862			ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

Report Date: 12-Jun-2020 12:39:50

Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110040.d

Injection Date: 12-Jun-2020 03:37:49

Instrument ID: CHHPLC_X3

Operator ID: JZ

Lims ID: 280-137048-A-2-A

Lab Sample ID: 280-137048-2

Worklist Smp#: 40

Client ID: EW7-PM22A-3-25

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

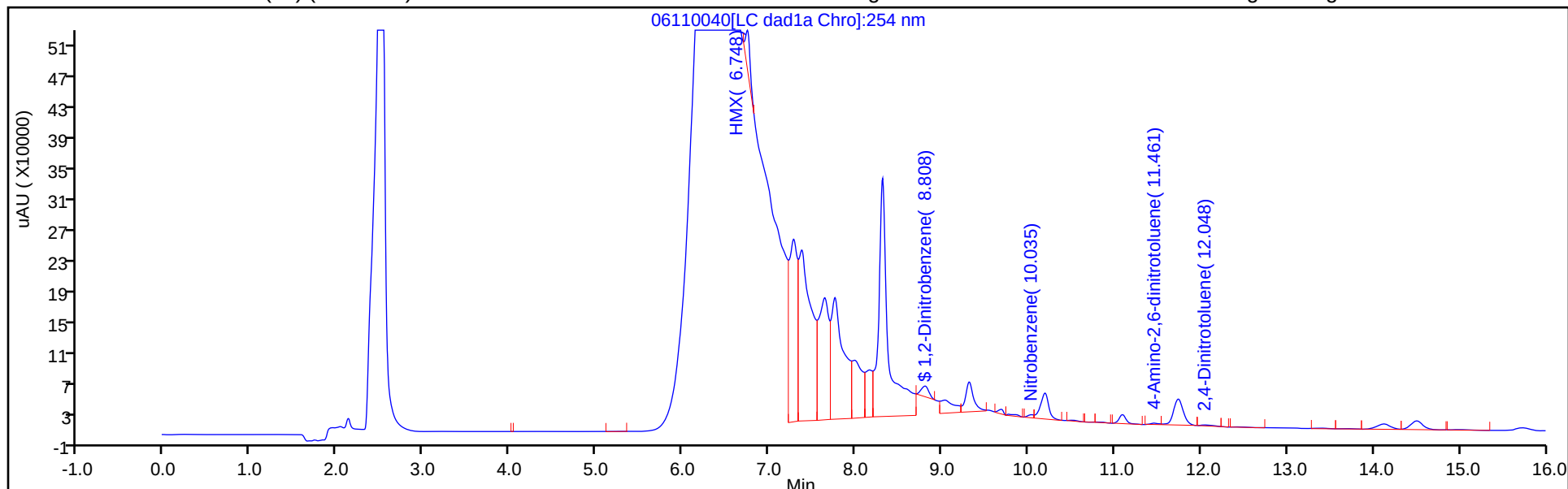
ALS Bottle#: 40

Method: 8330_X3

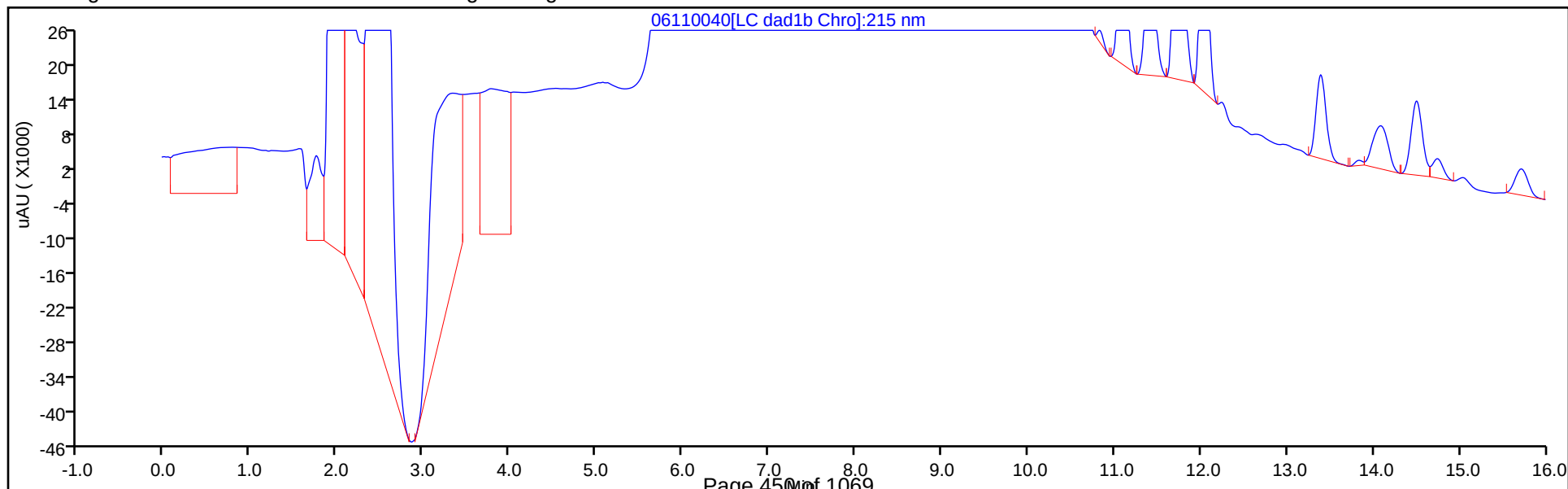
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110040.D
Lims ID: 280-137048-A-2-A
Client ID: EW7-PM22A-3-25
Sample Type: Client
Inject. Date: 12-Jun-2020 03:37:49 ALS Bottle#: 40 Worklist Smp#: 40
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137048-A-2-A
Misc. Info.: 280-0092324-040
Operator ID: JZ Instrument ID: CHHPLC_X3
Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 12-Jun-2020 12:39:47 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1034

First Level Reviewer: zhangji

Date: 12-Jun-2020 11:24:31

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,2-Dinitrobenzene	0.2000	0.6094	304.68

Eurofins TestAmerica, Denver

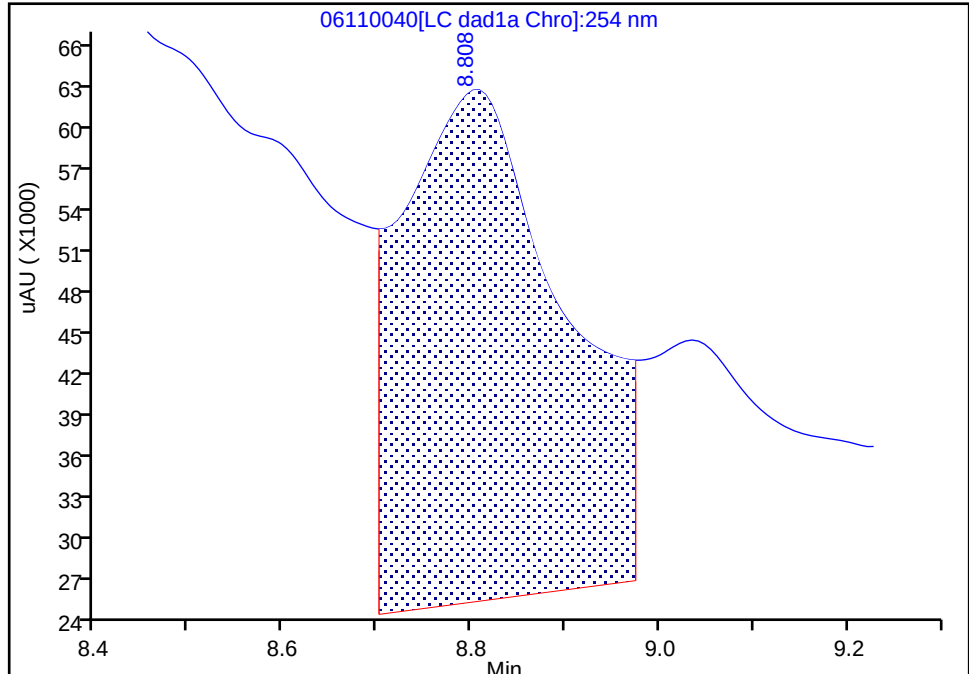
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110040.d
Injection Date: 12-Jun-2020 03:37:49 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-2-A Lab Sample ID: 280-137048-2
Client ID: EW7-PM22A-3-25
Operator ID: JZ ALS Bottle#: 40 Worklist Smp#: 40
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

\$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

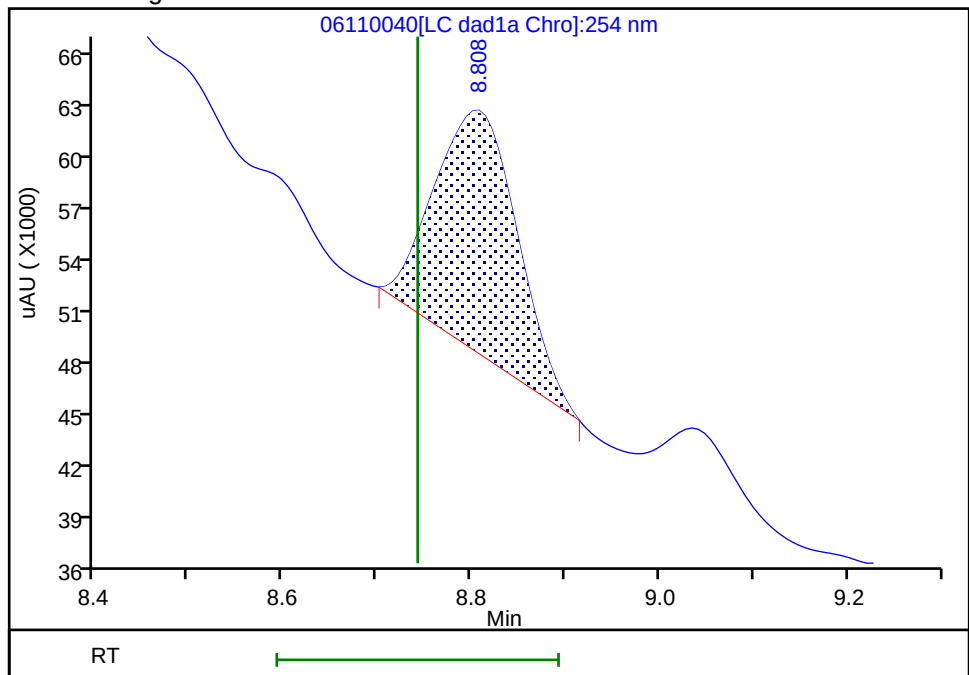
RT: 8.81
Area: 439643
Amount: 3.180927
Amount Units: ug/mL

Processing Integration Results



RT: 8.81
Area: 84222
Amount: 0.609367
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:23:22
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

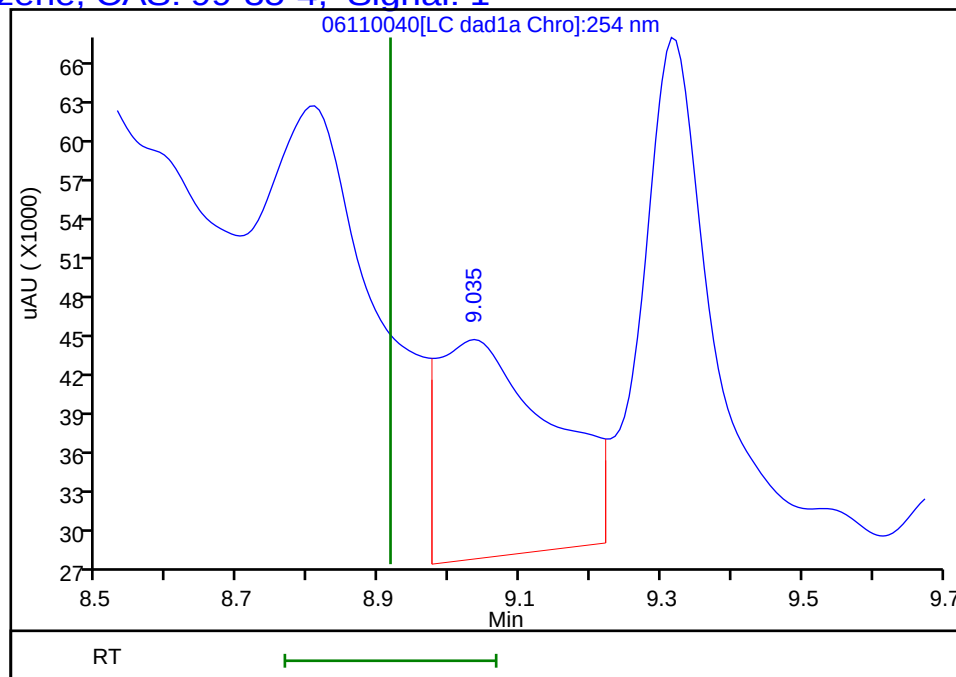
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110040.d
Injection Date: 12-Jun-2020 03:37:49 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-2-A Lab Sample ID: 280-137048-2
Client ID: EW7-PM22A-3-25
Operator ID: JZ
Injection Vol: 100.0 ul
Method: 8330_X3

ALS Bottle#: 40 Worklist Smp#: 40
Dil. Factor: 1.0000
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

10 1,3,5-Trinitrobenzene, CAS: 99-35-4, Signal: 1

RT: 9.03
Response: 186123
Amount: 0.808145



Reviewer: zhangji, 12-Jun-2020 11:24:31

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver

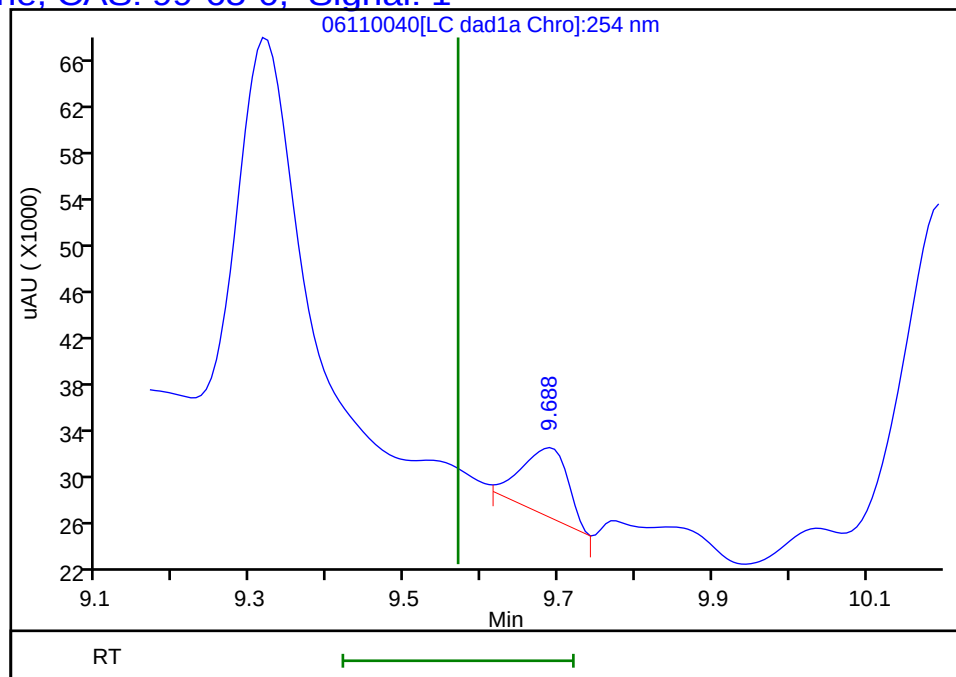
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110040.d
Injection Date: 12-Jun-2020 03:37:49 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-2-A Lab Sample ID: 280-137048-2
Client ID: EW7-PM22A-3-25
Operator ID: JZ
Injection Vol: 100.0 ul
Method: 8330_X3

ALS Bottle#: 40 Worklist Smp#: 40
Dil. Factor: 1.0000
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

11 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.69
Response: 24367
Amount: 0.079453



Reviewer: zhangji, 12-Jun-2020 11:24:31

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver

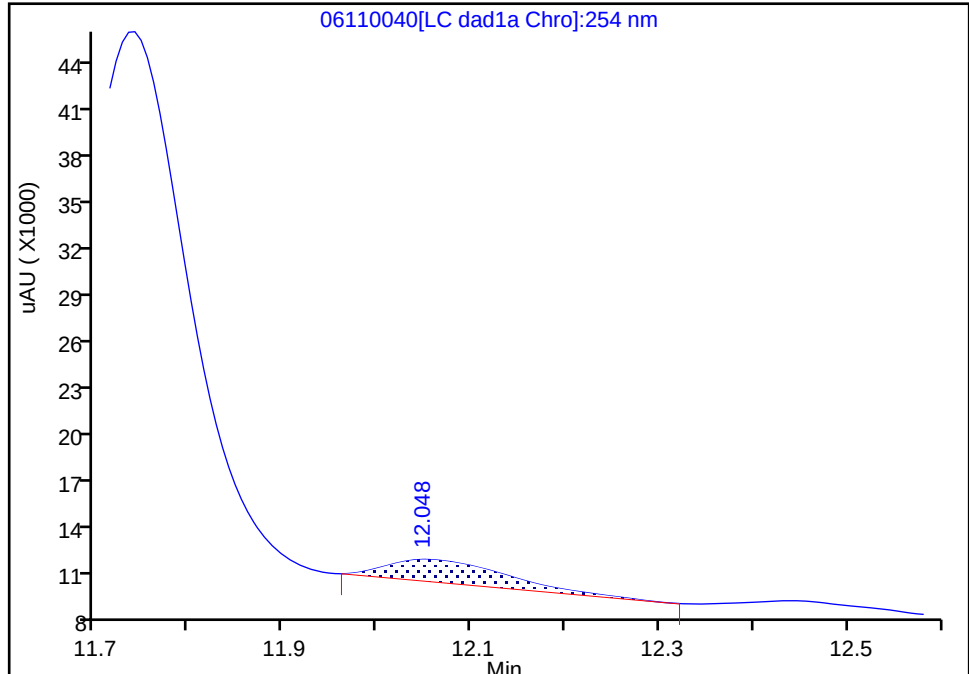
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110040.d
Injection Date: 12-Jun-2020 03:37:49 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-2-A Lab Sample ID: 280-137048-2
Client ID: EW7-PM22A-3-25
Operator ID: JZ ALS Bottle#: 40 Worklist Smp#: 40
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

20 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

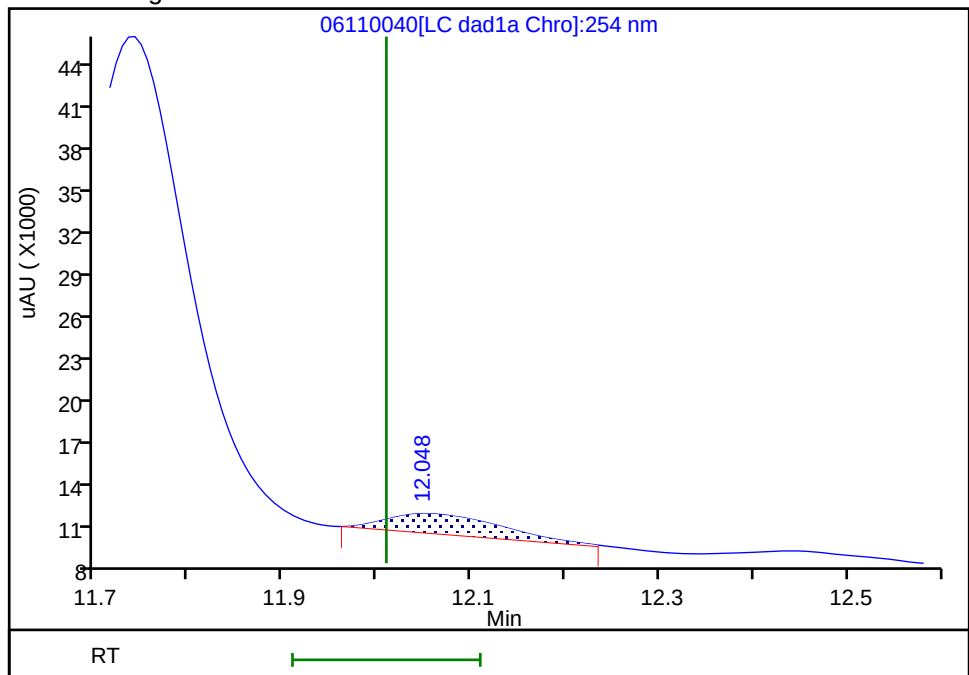
RT: 12.05
Area: 12723
Amount: 0.041909
Amount Units: ug/mL

Processing Integration Results



RT: 12.05
Area: 11986
Amount: 0.039482
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:24:29

Audit Action: Split an Integrated Peak

Audit Reason: Baseline

Eurofins TestAmerica, Denver

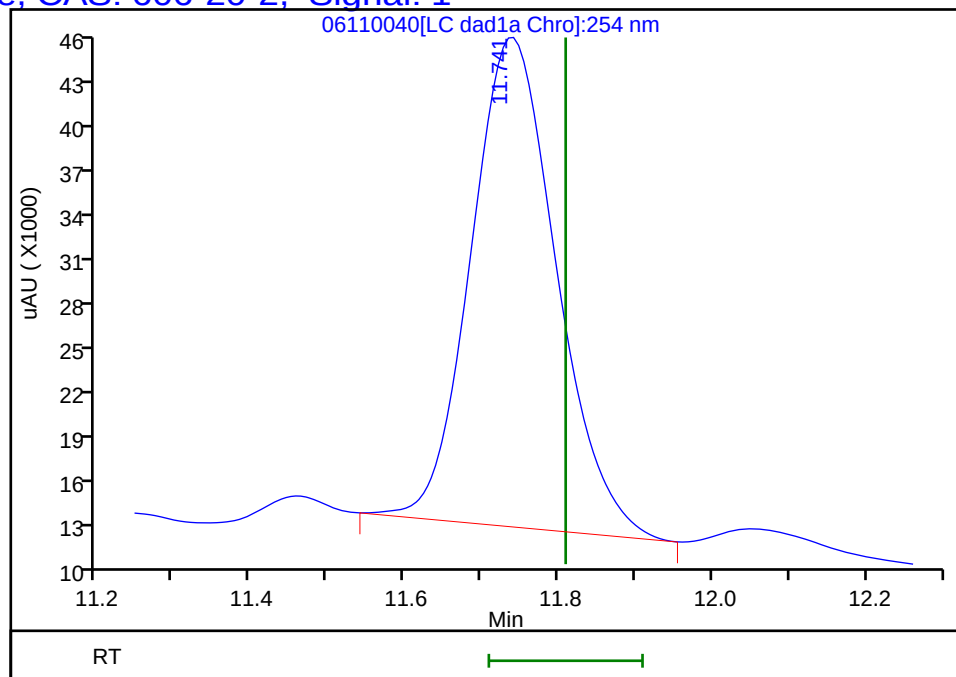
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110040.d
Injection Date: 12-Jun-2020 03:37:49 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-2-A Lab Sample ID: 280-137048-2
Client ID: EW7-PM22A-3-25
Operator ID: JZ
Injection Vol: 100.0 ul
Method: 8330_X3

ALS Bottle#: 40 Worklist Smp#: 40
Dil. Factor: 1.0000
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

19 2,6-Dinitrotoluene, CAS: 606-20-2, Signal: 1

RT: 11.74
Response: 256230
Amount: 1.714460



Reviewer: zhangji, 12-Jun-2020 11:24:31

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

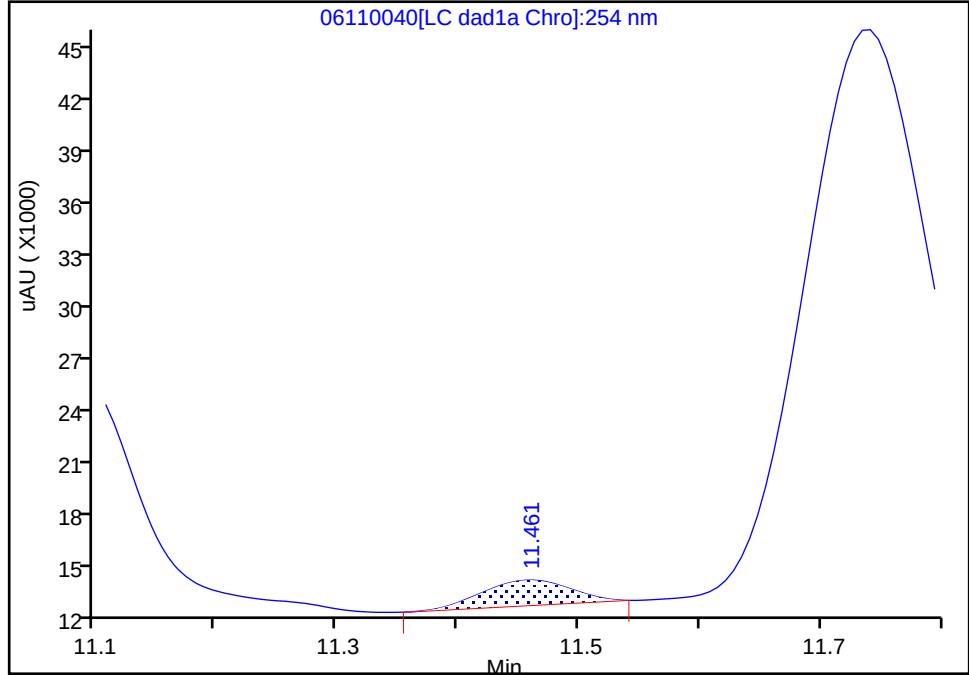
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110040.d
Injection Date: 12-Jun-2020 03:37:49 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-2-A Lab Sample ID: 280-137048-2
Client ID: EW7-PM22A-3-25
Operator ID: JZ ALS Bottle#: 40 Worklist Smp#: 40
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

17 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

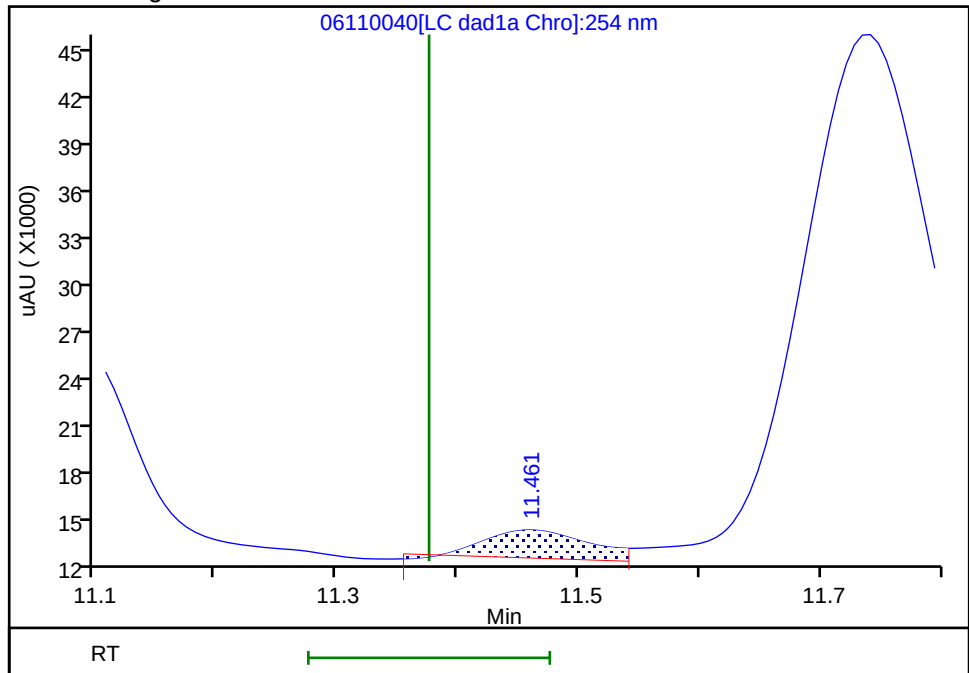
RT: 11.46
Area: 7374
Amount: 0.047864
Amount Units: ug/mL

Processing Integration Results



RT: 11.46
Area: 10090
Amount: 0.063090
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:24:10

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

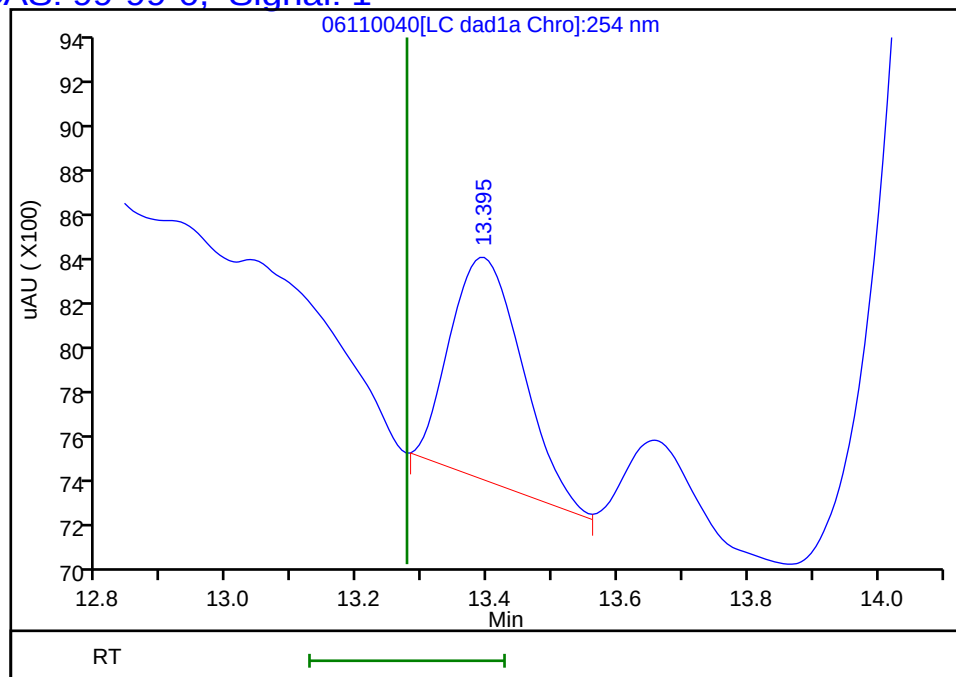
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110040.d
Injection Date: 12-Jun-2020 03:37:49 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-2-A Lab Sample ID: 280-137048-2
Client ID: EW7-PM22A-3-25
Operator ID: JZ
Injection Vol: 100.0 ul
Method: 8330_X3

ALS Bottle#: 40 Worklist Smp#: 40
Dil. Factor: 1.0000
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

22 p-Nitrotoluene, CAS: 99-99-0, Signal: 1

RT: 13.39
Response: 7479
Amount: 0.066183



Reviewer: zhangji, 12-Jun-2020 11:24:31

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver

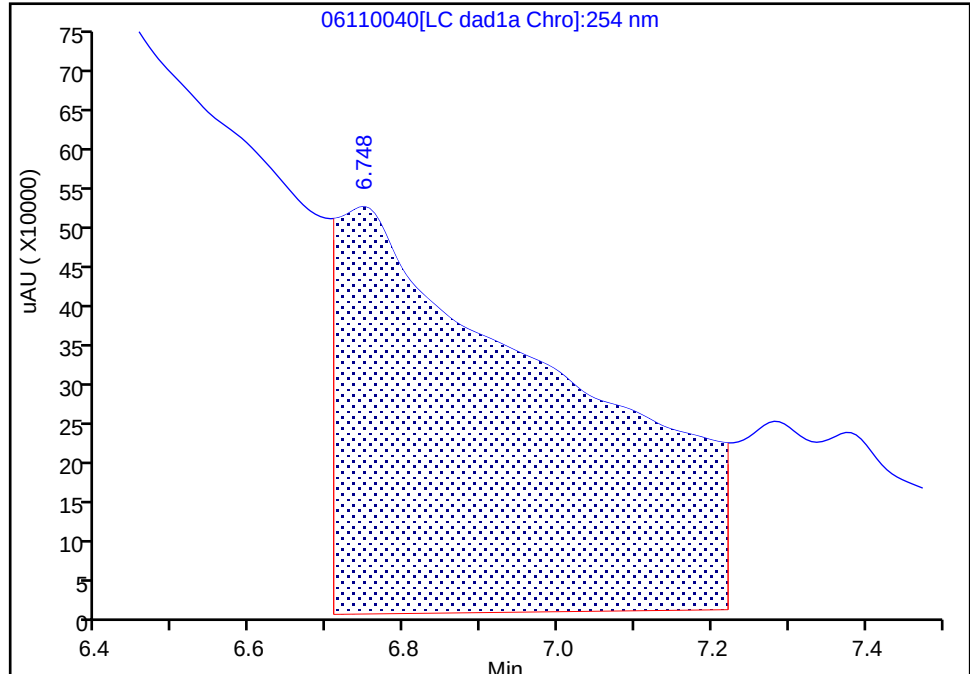
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110040.d
Injection Date: 12-Jun-2020 03:37:49 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-2-A Lab Sample ID: 280-137048-2
Client ID: EW7-PM22A-3-25
Operator ID: JZ ALS Bottle#: 40 Worklist Smp#: 40
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

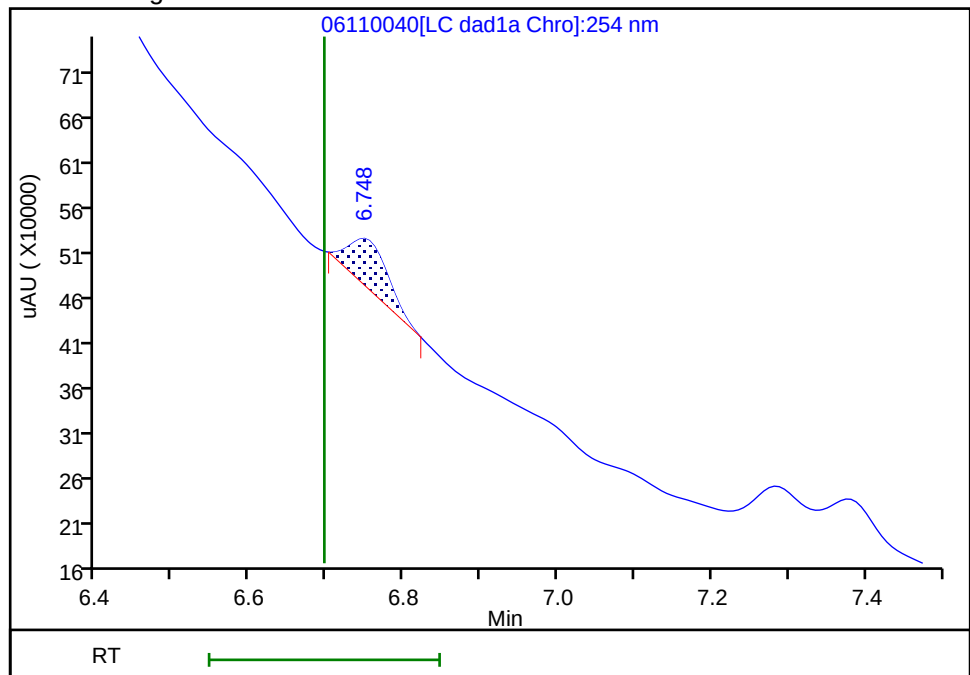
RT: 6.75
Area: 10221243
Amount: 118.9040
Amount Units: ug/mL

Processing Integration Results



RT: 6.75
Area: 185553
Amount: 2.158543
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:23:08
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110040.d
Injection Date: 12-Jun-2020 03:37:49 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-2-A Lab Sample ID: 280-137048-2
Client ID: EW7-PM22A-3-25
Operator ID: JZ
Injection Vol: 100.0 ul
Method: 8330_X3

ALS Bottle#: 40 Worklist Smp#: 40

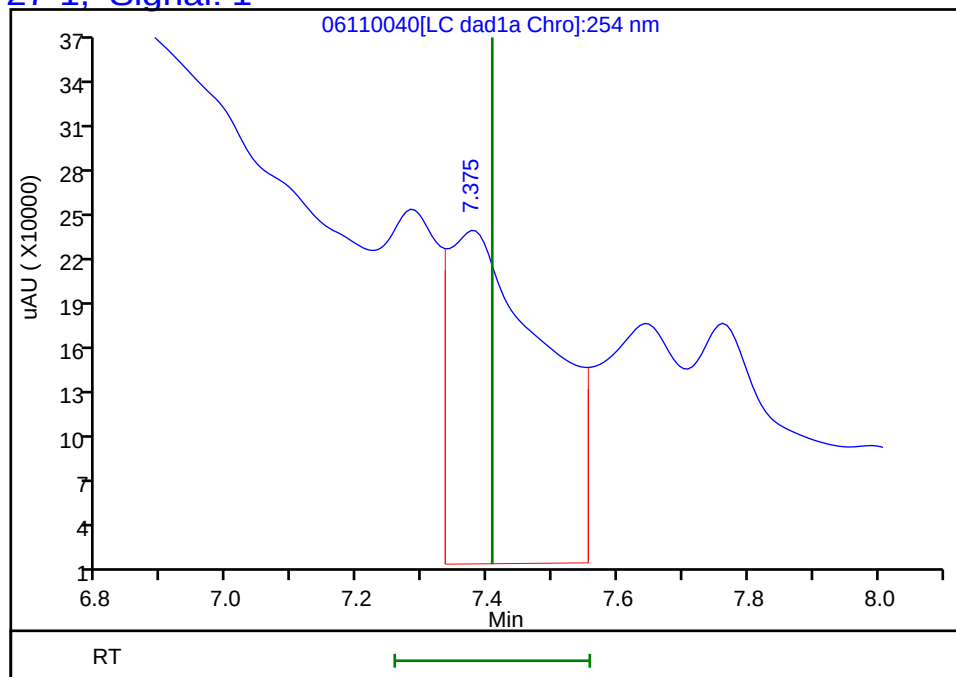
Dil. Factor: 1.0000

Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.37
Response: 2265939
Amount: 14.292159



Reviewer: zhangji, 12-Jun-2020 11:24:31

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver

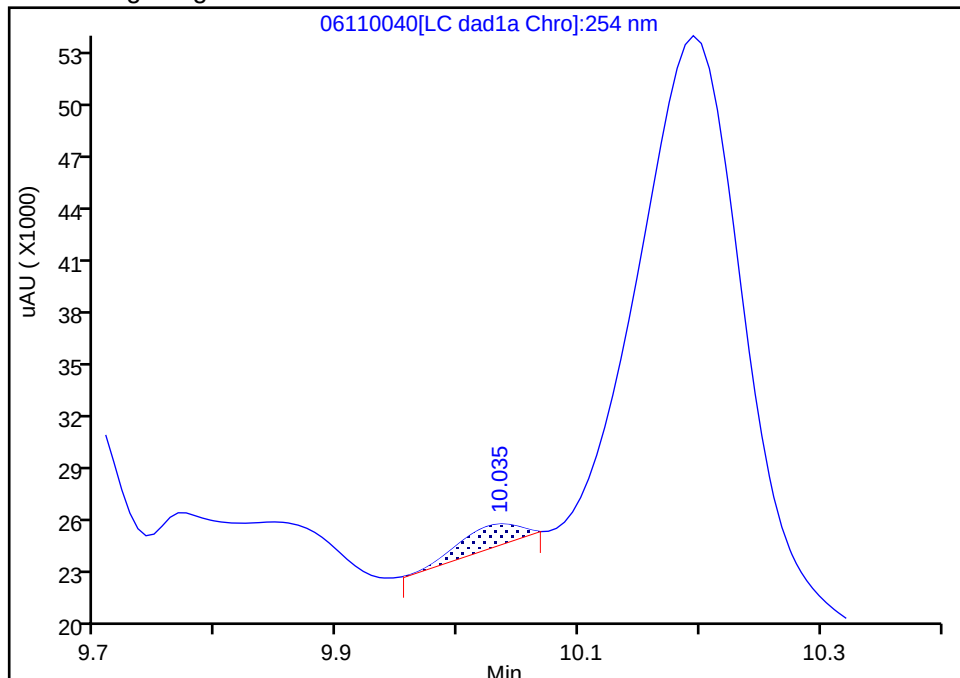
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110040.d
Injection Date: 12-Jun-2020 03:37:49 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-2-A Lab Sample ID: 280-137048-2
Client ID: EW7-PM22A-3-25
Operator ID: JZ ALS Bottle#: 40 Worklist Smp#: 40
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

12 Nitrobenzene, CAS: 98-95-3

Signal: 1

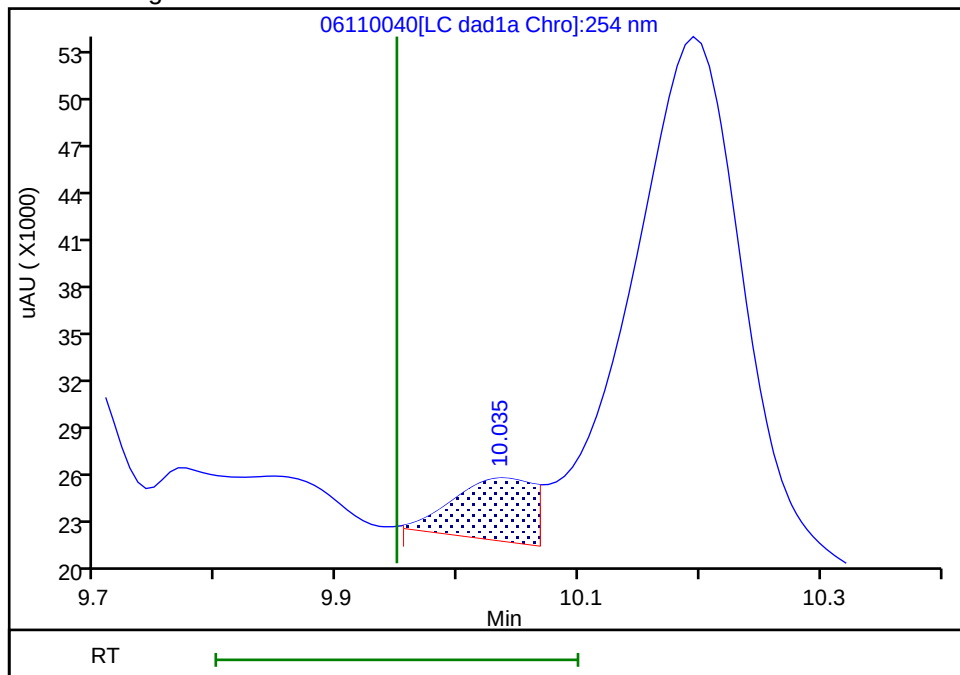
RT: 10.03
Area: 4547
Amount: 0.022689
Amount Units: ug/mL

Processing Integration Results



RT: 10.03
Area: 18195
Amount: 0.090792
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:24:05
Audit Action: Assigned New Baseline

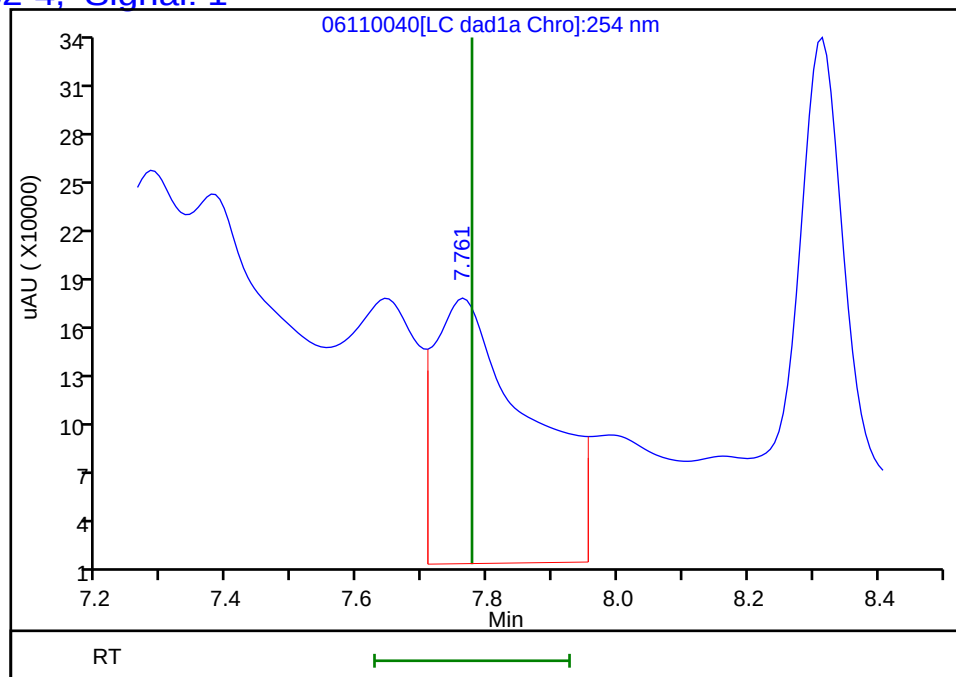
Audit Reason: Baseline

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110040.d
Injection Date: 12-Jun-2020 03:37:49 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-2-A Lab Sample ID: 280-137048-2
Client ID: EW7-PM22A-3-25
Operator ID: JZ ALS Bottle#: 40 Worklist Smp#: 40
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 RDX, CAS: 121-82-4, Signal: 1

RT: 7.76
Response: 1594682
Amount: 13.674985



Reviewer: zhangji, 12-Jun-2020 11:24:31

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110040.d
Injection Date: 12-Jun-2020 03:37:49 Instrument ID: CHHPLC_X3
Lims ID: 280-137048-A-2-A Lab Sample ID: 280-137048-2
Client ID: EW7-PM22A-3-25
Operator ID: JZ
Injection Vol: 100.0 ul
Method: 8330_X3

ALS Bottle#: 40 Worklist Smp#: 40

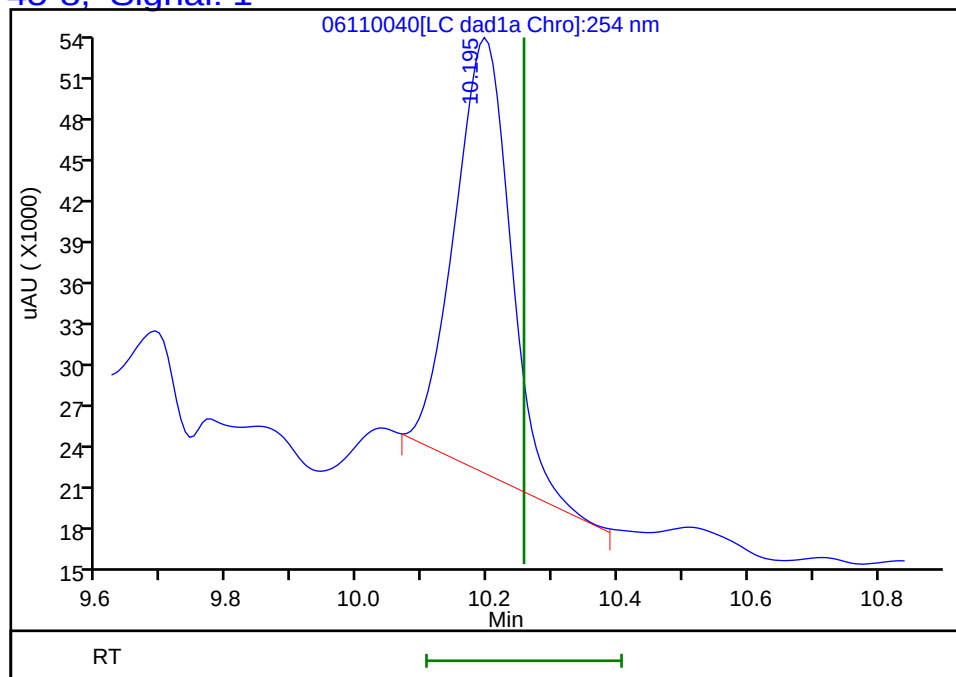
Dil. Factor: 1.0000

Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 10.19
Response: 186137
Amount: 1.051432



Reviewer: zhangji, 12-Jun-2020 11:24:31

Audit Action: Assigned New Baseline

Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Client Sample ID: EW7-PM22A-3-25 Lab Sample ID: 280-137048-2
 Matrix: Water Lab File ID: 06120029.D
 Analysis Method: 8330A Date Collected: 05/28/2020 12:25
 Extraction Method: 3535 Date Extracted: 06/01/2020 10:20
 Sample wt/vol: 467(mL) Date Analyzed: 06/13/2020 06:07
 Con. Extract Vol.: 5(mL) Dilution Factor: 1
 Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 498568 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
121-14-2	2,4-Dinitrotoluene	0.086	U	0.11	0.086	0.029
19406-51-0	4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.062
2691-41-0	HMX	0.21	U	0.22	0.21	0.094

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	103	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\06120029.D
 Lims ID: 280-137048-A-2-A
 Client ID: EW7-PM22A-3-25
 Sample Type: Client
 Inject. Date: 13-Jun-2020 06:07:44 ALS Bottle#: 29 Worklist Smp#: 29
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: 280-137048-A-2-A
 Misc. Info.: 280-0092371-029
 Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 16-Jun-2020 18:53:19 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX1024

First Level Reviewer: zhangji

Date: 16-Jun-2020 17:55:34

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
6 HMX	1		7.161			ND	
7 MNX	1		7.876			ND	
8 RDX	1		9.387			ND	
9 Nitrobenzene	1	12.273	12.281	-0.008	26582	0.0605	M
\$ 10 1,2-Dinitrobenzene	1	13.246	13.294	-0.048	58829	0.2056	M
12 1,3-Dinitrobenzene	1		15.827			ND	
14 o-Nitrotoluene	1		16.747			ND	U
15 p-Nitrotoluene	1		17.041			ND	
16 4-Amino-2,6-dinitrotoluene	1		17.487			ND	
17 m-Nitrotoluene	1		17.967			ND	U
18 2-Amino-4,6-dinitrotoluene	1		18.427			ND	U
19 1,3,5-Trinitrobenzene	1		19.154			ND	U
20 2,6-Dinitrotoluene	1		20.081			ND	
21 2,4-Dinitrotoluene	1		20.601			ND	
22 Tetryl	1		23.908			ND	
23 2,4,6-Trinitrotoluene	1		24.914			ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

Report Date: 16-Jun-2020 18:53:21

Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120029.d

Injection Date: 13-Jun-2020 06:07:44

Instrument ID: CHHPLC_G2_LUNA

Operator ID: JZ

Lims ID: 280-137048-A-2-A

Lab Sample ID: 280-137048-2

Worklist Smp#: 29

Client ID: EW7-PM22A-3-25

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

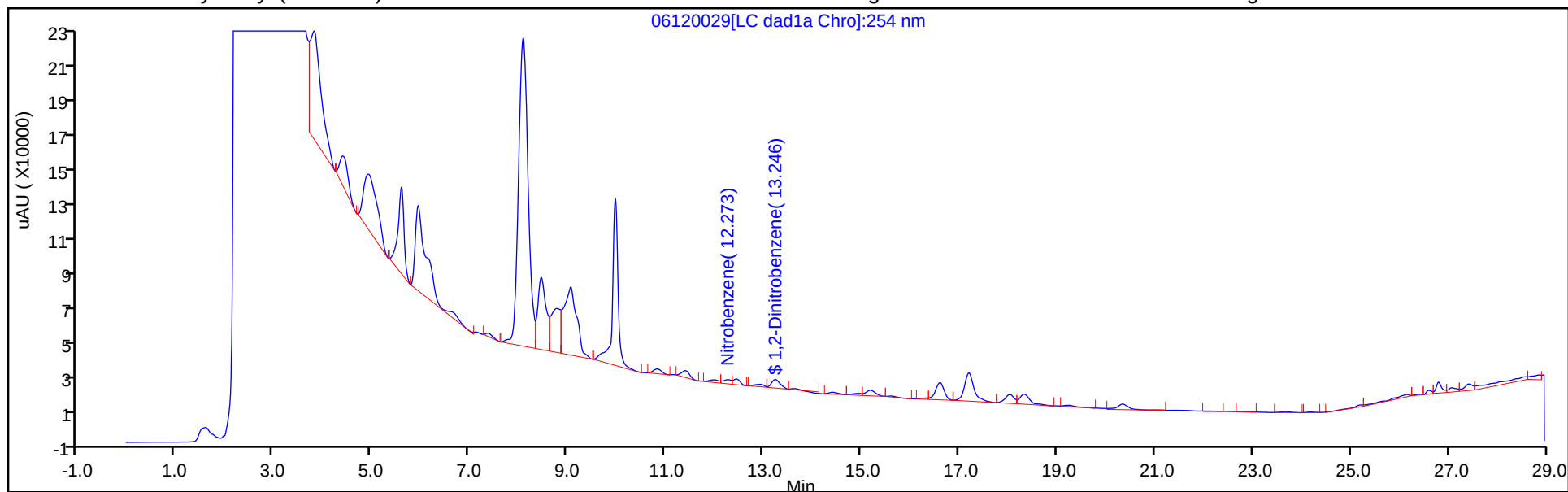
ALS Bottle#: 29

Method: G2_8330_Luna

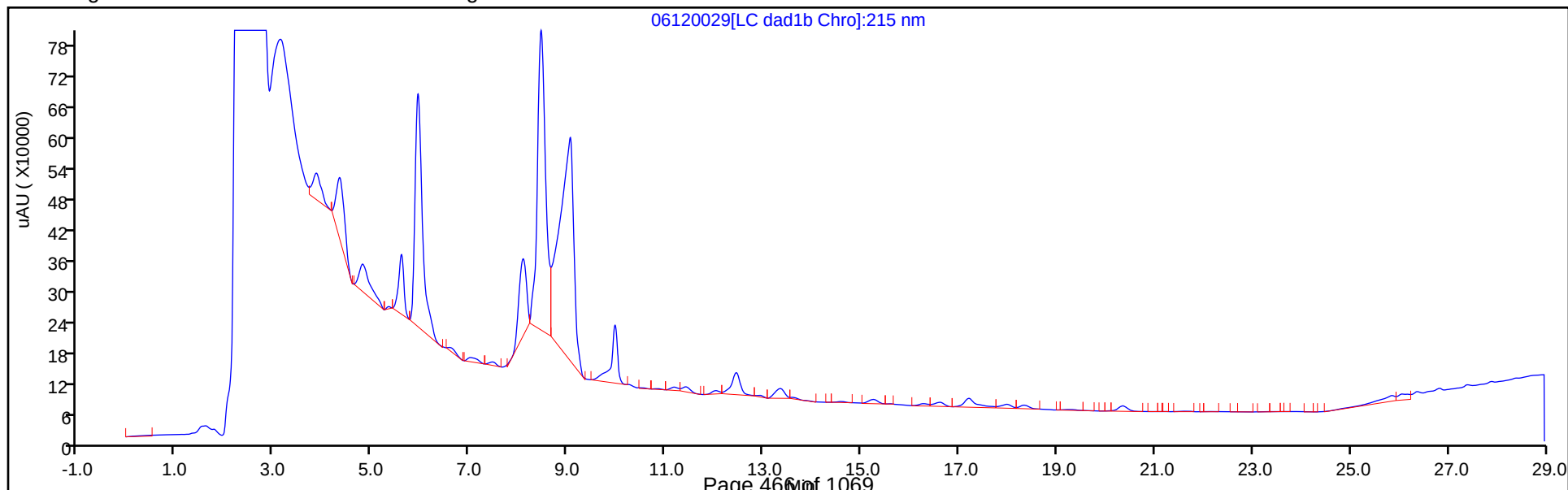
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\06120029.D
Lims ID: 280-137048-A-2-A
Client ID: EW7-PM22A-3-25
Sample Type: Client
Inject. Date: 13-Jun-2020 06:07:44 ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137048-A-2-A
Misc. Info.: 280-0092371-029
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
Method: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 16-Jun-2020 18:53:19 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1024

First Level Reviewer: zhangji

Date: 16-Jun-2020 17:55:34

Compound	Amount Added	Amount Recovered	% Rec.
\$ 10 1,2-Dinitrobenzene	0.2000	0.2056	102.79

Eurofins TestAmerica, Denver

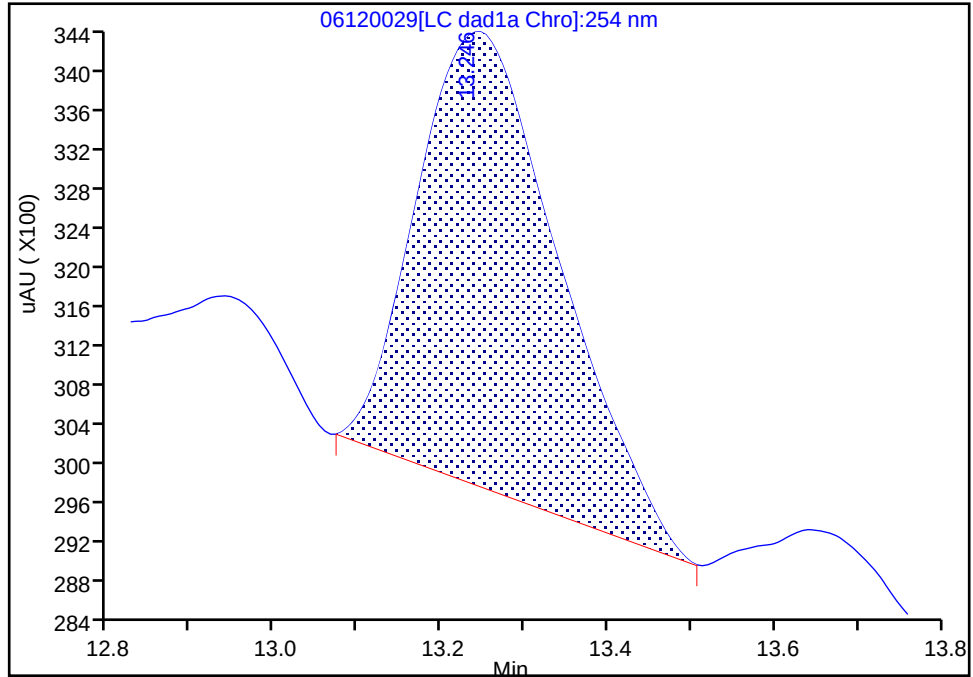
Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120029.d
Injection Date: 13-Jun-2020 06:07:44 Instrument ID: CHHPLC_G2_LUNA
Lims ID: 280-137048-A-2-A Lab Sample ID: 280-137048-2
Client ID: EW7-PM22A-3-25
Operator ID: JZ ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

\$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

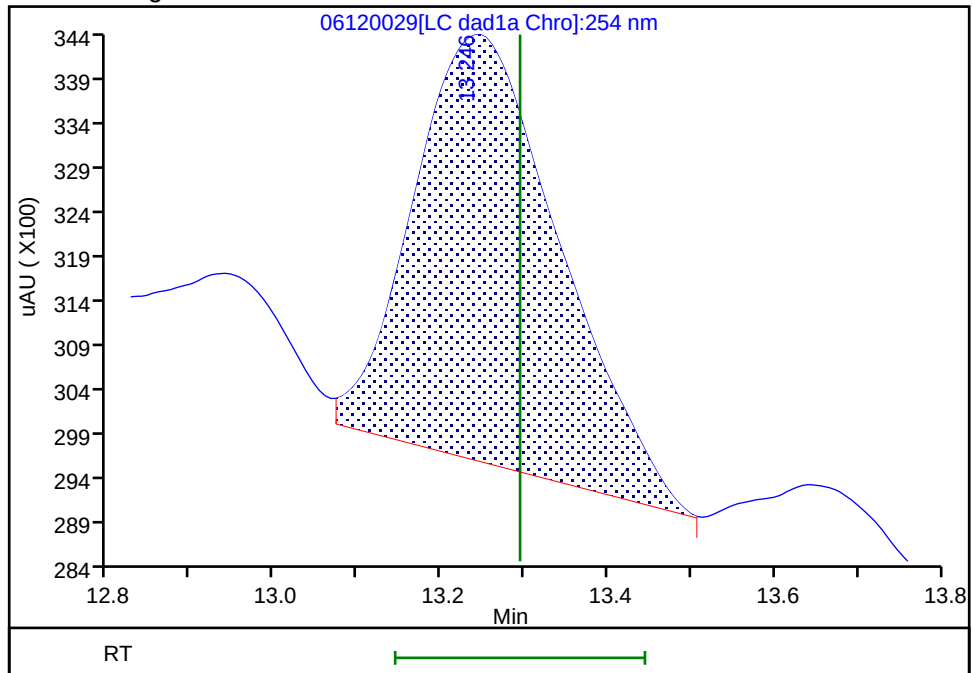
RT: 13.25
Area: 54994
Amount: 0.191737
Amount Units: ug/ml

Processing Integration Results



RT: 13.25
Area: 58829
Amount: 0.205571
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 16-Jun-2020 17:55:51

Audit Action: Assigned New Baseline

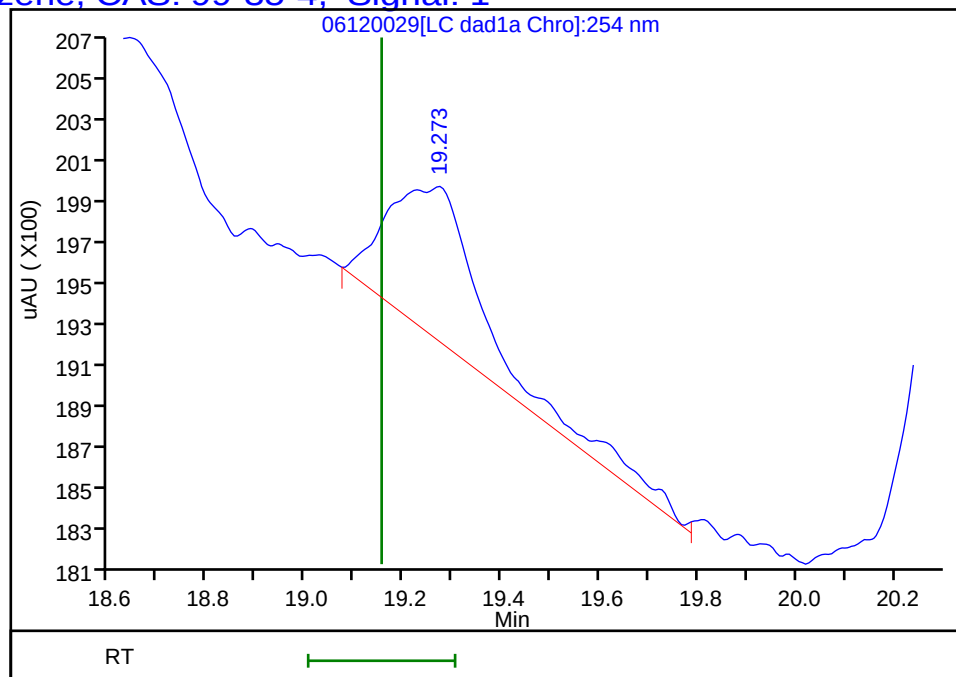
Audit Reason: Baseline

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120029.d
Injection Date: 13-Jun-2020 06:07:44 Instrument ID: CHHPLC_G2_LUNA
Lims ID: 280-137048-A-2-A Lab Sample ID: 280-137048-2
Client ID: EW7-PM22A-3-25
Operator ID: JZ ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

19 1,3,5-Trinitrobenzene, CAS: 99-35-4, Signal: 1

RT: 19.27
Response: 10113
Amount: 0.021405



Reviewer: zhangji, 16-Jun-2020 17:55:34

Audit Action: Marked Compound Undetected

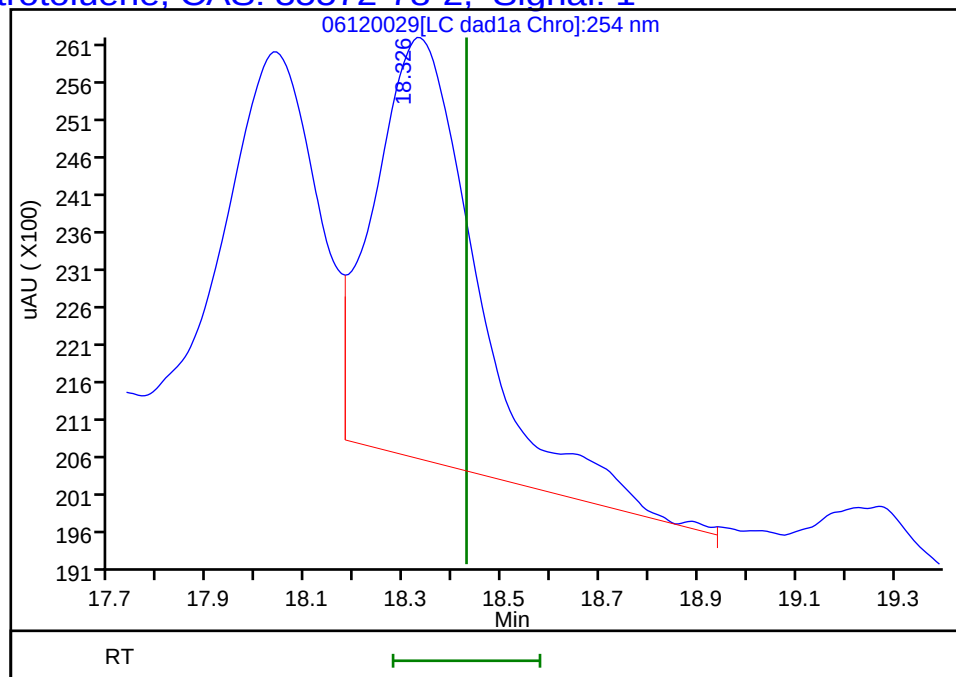
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120029.d
Injection Date: 13-Jun-2020 06:07:44 Instrument ID: CHHPLC_G2_LUNA
Lims ID: 280-137048-A-2-A Lab Sample ID: 280-137048-2
Client ID: EW7-PM22A-3-25
Operator ID: JZ ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2, Signal: 1

RT: 18.33
Response: 82232
Amount: 0.176763



Reviewer: zhangji, 16-Jun-2020 17:55:34

Audit Action: Marked Compound Undetected

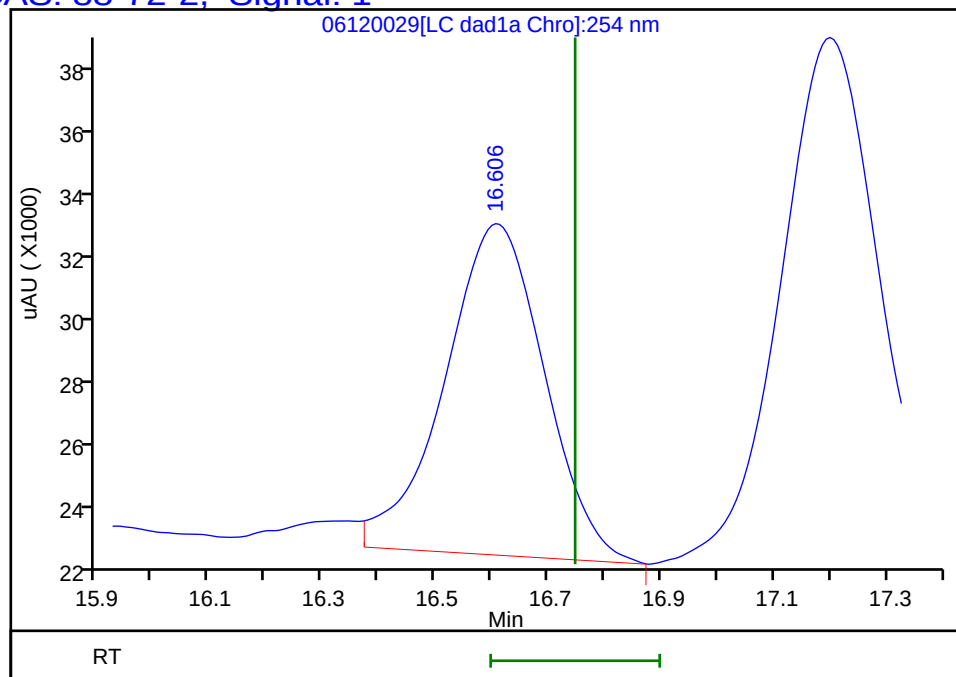
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120029.d
Injection Date: 13-Jun-2020 06:07:44 Instrument ID: CHHPLC_G2_LUNA
Lims ID: 280-137048-A-2-A Lab Sample ID: 280-137048-2
Client ID: EW7-PM22A-3-25
Operator ID: JZ ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.61
Response: 118470
Amount: 0.434012



Reviewer: zhangji, 16-Jun-2020 17:55:34

Audit Action: Marked Compound Undetected

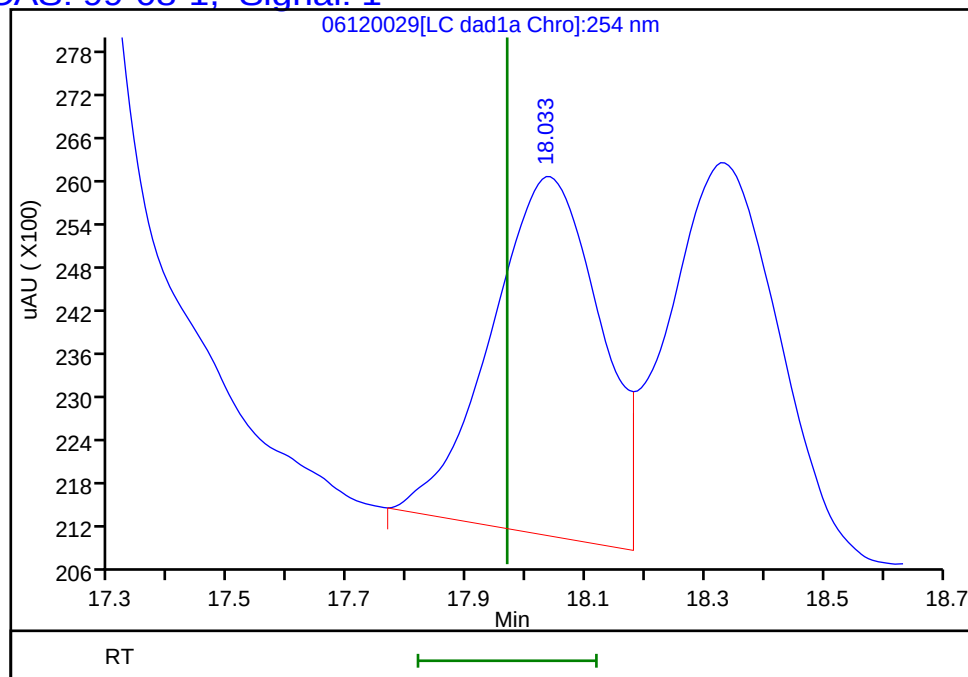
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120029.d
Injection Date: 13-Jun-2020 06:07:44 Instrument ID: CHHPLC_G2_LUNA
Lims ID: 280-137048-A-2-A Lab Sample ID: 280-137048-2
Client ID: EW7-PM22A-3-25
Operator ID: JZ ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

17 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 18.03
Response: 63501
Amount: 0.212857



Reviewer: zhangji, 16-Jun-2020 17:55:34

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver

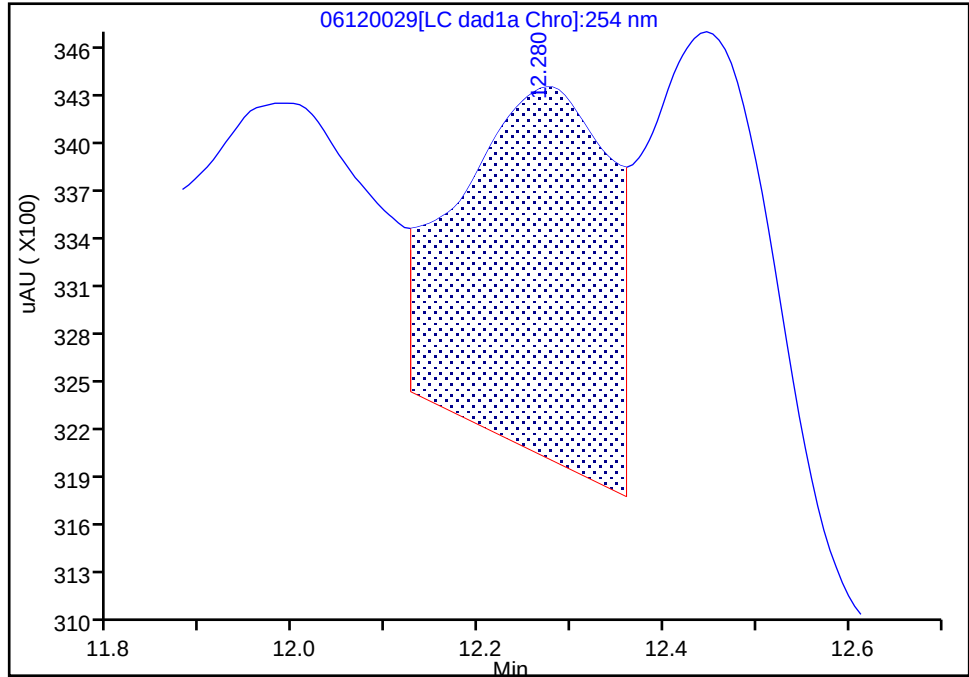
Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120029.d
Injection Date: 13-Jun-2020 06:07:44 Instrument ID: CHHPLC_G2_LUNA
Lims ID: 280-137048-A-2-A Lab Sample ID: 280-137048-2
Client ID: EW7-PM22A-3-25
Operator ID: JZ ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

9 Nitrobenzene, CAS: 98-95-3

Signal: 1

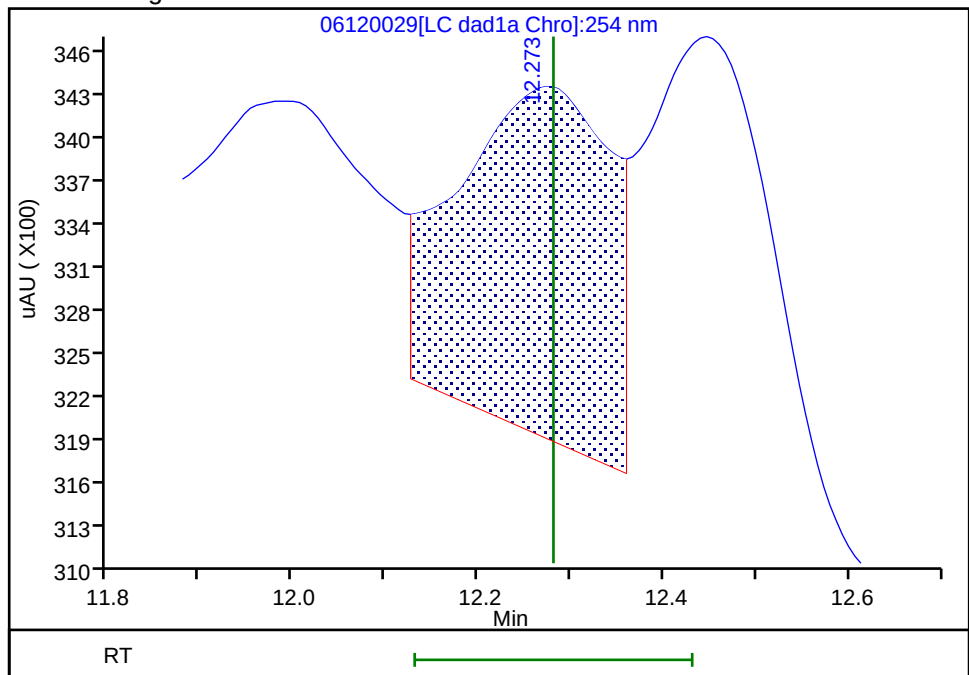
RT: 12.28
Area: 25007
Amount: 0.056934
Amount Units: ug/ml

Processing Integration Results



RT: 12.27
Area: 26582
Amount: 0.060520
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 16-Jun-2020 17:55:57

Audit Action: Assigned New Baseline

Audit Reason: Baseline

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1 Analy Batch No.: 494886

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 16:16 Calibration End Date: 05/14/2020 20:56 Calibration ID: 44234

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-494886/15	05140015.D
Level 2	IC 280-494886/14	05140014.D
Level 3	IC 280-494886/13	05140013.D
Level 4	IC 280-494886/12	05140012.D
Level 5	IC 280-494886/11	05140011.D
Level 6	IC 280-494886/10	05140010.D
Level 7	IC 280-494886/9	05140009.D
Level 8	IC 280-494886/8	05140008.D
Level 9	IC 280-494886/7	05140007.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
Picric acid		6.322	6.331	6.308	6.300	6.267	6.235	6.195	++++		6.150 - 6.450	6.280
HMX		6.982	6.984	6.994	6.986	6.987	6.982	6.968	6.916		6.836 - 7.136	6.975
RDX		9.095	9.184	9.181	9.173	9.173	9.162	9.148	9.076		9.023 - 9.323	9.149
Nitrobenzene		12.095	12.110	12.114	12.106	12.107	12.095	12.088	11.995		11.956 - 12.256	12.089
1,3-Dinitrobenzene		15.542	15.544	15.554	15.553	15.553	15.548	15.541	15.469		15.403 - 15.703	15.538
Nitroglycerin		15.855	15.844	15.848	15.853	15.853	15.842	15.848	15.782		15.703 - 16.003	15.841
2-Nitrotoluene		16.515	16.550	16.534	16.533	16.540	16.535	16.535	16.475		16.383 - 16.683	16.527
4-Nitrotoluene		16.795	16.837	16.828	16.820	16.820	16.808	16.815	16.715		16.670 - 16.970	16.805
4-Amino-2,6-dinitrotoluene		17.155	17.157	17.148	17.146	17.153	17.142	17.141	17.069		16.996 - 17.296	17.139
3-Nitrotoluene		17.748	17.724	17.741	17.753	17.747	17.742	17.741	17.782		17.603 - 17.903	17.747
2-Amino-4,6-dinitrotoluene		18.048	18.030	18.054	18.046	18.040	18.035	18.028	17.935		17.896 - 18.196	18.027
1,3,5-Trinitrobenzene		18.855	18.864	18.881	18.886	18.887	18.875	18.881	18.829		18.736 - 19.036	18.870
2,6-Dinitrotoluene	++++	19.828	19.817	19.794	19.806	19.807	19.795	19.801	19.742		19.656 - 19.956	19.799
2,4-Dinitrotoluene	20.295	20.295	20.290	20.288	20.293	20.293	20.288	20.288	20.235		20.143 - 20.443	20.285
Tetryl		23.529	23.557	23.548	23.553	23.553	23.542	23.555	23.516		23.403 - 23.703	23.544
2,4,6-Trinitrotoluene		24.682	24.637	24.654	24.653	24.647	24.642	24.648	24.616		24.503 - 24.803	24.647
PETN		+++	25.277	25.281	25.280	25.280	25.275	25.281	25.269		25.130 - 25.430	25.278
1,2-Dinitrobenzene		13.022	13.037	13.048	13.040	13.040	13.028	13.028	12.949		12.890 - 13.190	13.024

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1 Analy Batch No.: 494886

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 16:16 Calibration End Date: 05/14/2020 20:56 Calibration ID: 44234

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-494886/15	05140015.D
Level 2	IC 280-494886/14	05140014.D
Level 3	IC 280-494886/13	05140013.D
Level 4	IC 280-494886/12	05140012.D
Level 5	IC 280-494886/11	05140011.D
Level 6	IC 280-494886/10	05140010.D
Level 7	IC 280-494886/9	05140009.D
Level 8	IC 280-494886/8	05140008.D
Level 9	IC 280-494886/7	05140007.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	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								
Picric acid	194456 ++++	227320 170053	189240 169399	231700 174504	Ave		193810.153				13.5		20.0			
HMX	216260 175837	400720 186210	252920 179567	242940 183992	Lin2	5323.97093	177012.867							0.9900		0.9900
RDX	250504 220101	251440 221363	302380 217280	272330 219481	Ave		244359.838				12.7		20.0			
Nitrobenzene	422566 420057	411355 413613	566215 420302	425090 434621	Ave		439227.211				11.8		20.0			
1,3-Dinitrobenzene	687780 651230	649900 645107	741737 661018	688743 667994	Ave		674188.610				4.7		20.0			
Nitroglycerin	132151 128856	106184 127479	128084 121758	141489 128426	Ave		126803.331				7.9		20.0			
2-Nitrotoluene	252584 263350	272480 263733	320060 259206	290620 261684	Ave		272964.527				8.1		20.0			
4-Nitrotoluene	237944 205745	214531 233965	309222 235547	259042 231055	Ave		240881.296				13.2		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1 Analy Batch No.: 494886

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 16:16 Calibration End Date: 05/14/2020 20:56 Calibration ID: 44234

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
4-Amino-2,6-dinitrotoluene	316356 338348	374386 325764	441918 319452	324156 321498	Ave		345234.619				12.5		20.0			
3-Nitrotoluene	284364 280237	276523 288039	385215 286309	305554 280373	Ave		298326.800				12.1		20.0			
2-Amino-4,6-dinitrotoluene	449641 452344	413386 446609	577331 454954	473367 454056	Ave		465211.017				10.4		20.0			
1,3,5-Trinitrobenzene	473888 459025	432016 445838	531916 461195	509261 466466	Ave		472450.766				7.0		20.0			
2,6-Dinitrotoluene	++++ 296084 293622	462869 294056	380618 294513	345209 297272	Lin2	4435.95604	289218.236							0.9990		0.9900
2,4-Dinitrotoluene	636653 610554 606816	669761 610082	743068 605778	672311 605997	Ave		640113.339				7.4		20.0			
Tetryl	368208 349575	394172 348927	403234 350489	384701 350116	Ave		368677.570				6.1		20.0			
2,4,6-Trinitrotoluene	399076 406271	460040 393653	565060 401302	430359 406644	Lin1	3158.03416	401610.023							0.9990		0.9900
PETN	135296 128081	++++ 139434	204240 136840	132172 136576	Lin1	27366.0232	129287.517							0.9980		0.9900
1,2-Dinitrobenzene	249500 288347	337440 268080	374880 263961	306830 274673	Lin1	1839.02265	277228.024							0.9970		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1 Analy Batch No.: 494886

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 16:16 Calibration End Date: 05/14/2020 20:56 Calibration ID: 44234

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-494886/15	05140015.D
Level 2	IC 280-494886/14	05140014.D
Level 3	IC 280-494886/13	05140013.D
Level 4	IC 280-494886/12	05140012.D
Level 5	IC 280-494886/11	05140011.D
Level 6	IC 280-494886/10	05140010.D
Level 7	IC 280-494886/9	05140009.D
Level 8	IC 280-494886/8	05140008.D
Level 9	IC 280-494886/7	05140007.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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Picric acid	Ave	68021	5683 118579	9462 174504	23170 +++++	48614	0.400	0.0250 0.700	0.0500 1.00	0.100 +++++	0.250
HMX	Lin2	74484	10018 125697	12646 183992	24294 439592	54065	0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250
RDX	Ave	88545	6286 152096	15119 219481	27233 550253	62626	0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250
Nitrobenzene	Ave	166107	10325 295388	28424 436359	42679 1054344	106064	0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
1,3-Dinitrobenzene	Ave	258559	16280 463638	37161 669330	69012 1631331	172289	0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
Nitroglycerin	Ave	509915	26546 852305	64042 1284256	141489 3221406	330378	4.00	0.250 7.00	0.500 10.0	1.00 25.0	2.50
2-Nitrotoluene	Ave	105493	6812 181444	16003 261684	29062 658375	63146	0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250
4-Nitrotoluene	Ave	93773	5374 165213	15492 231517	25956 515391	59605	0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
4-Amino-2,6-dinitrotoluene	Ave	130436	9369 223840	22118 321819	32448 846716	79168	0.400	0.0250 0.701	0.0501 1.00	0.100 2.50	0.250
3-Nitrotoluene	Ave	115331	6920 200617	19280 280653	30586 701292	71162	0.400	0.0250 0.701	0.0501 1.00	0.100 2.50	0.250
2-Amino-4,6-dinitrotoluene	Ave	179358	10376 319742	28982 455872	47526 1135384	112860	0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
1,3,5-Trinitrobenzene	Ave	178692	10822 323482	26649 467399	51028 1149858	118709	0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
2,6-Dinitrotoluene	Lin2	118093	11618 206984	19107 298461	34659 736990	74317	0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
2,4-Dinitrotoluene	Ave	245009	7990 425741	37302 608421	67500 1523108	153249	0.0126 0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1 Analy Batch No.: 494886

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 16:16 Calibration End Date: 05/14/2020 20:56 Calibration ID: 44234

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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Tetryl	Ave	139850	9874 245833	20202 350816	38547 875686	92236	0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
2,4,6-Trinitrotoluene	Lin1	158091	11547 282035	28366 408271	43208 1019741	100168	0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
PETN	Lin1	557734	+++++	102120	132172	338241	4.00	+++++	0.500	1.00	2.50
1,2-Dinitrobenzene	Lin1	107232	8436 184773	18744 274673	30683 720867	62375	0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc
Lin2 = Linear 1/conc^2

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140007.D
 Lims ID: IC FULL 9
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 14-May-2020 16:16:43 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC FULL 9
 Misc. Info.: 280-0091518-007
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub6
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 15-May-2020 12:00:54 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0318

First Level Reviewer: zhangji

Date: 14-May-2020 17:09:51

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	4.302	4.366	-0.064	946682	2.50	2.21	M
2 2,4-diamino-6-nitrotoluene	1	4.769	4.880	-0.111	410736	2.50	1.70	M
5 2,4,6-Trinitrophenol	1	6.096	6.300	-0.204	359637	2.50	1.86	
6 HMX	1	6.916	6.986	-0.070	439592	2.50	2.45	
8 RDX	1	9.076	9.173	-0.097	550253	2.50	2.25	
9 Nitrobenzene	1	11.995	12.106	-0.111	1054344	2.51	2.40	
\$ 10 1,2-Dinitrobenzene	1	12.949	13.040	-0.091	720867	2.50	2.59	
11 3,5-Dinitroaniline	1	14.795	14.886	-0.091	1218279	2.50	2.51	a
12 1,3-Dinitrobenzene	1	15.469	15.553	-0.084	1631331	2.51	2.42	
13 Nitroglycerin	2	15.782	15.853	-0.071	3221406	25.0	25.4	
14 o-Nitrotoluene	1	16.475	16.533	-0.058	658375	2.50	2.41	a
15 p-Nitrotoluene	1	16.715	16.820	-0.105	515391	2.51	2.14	a
16 4-Amino-2,6-dinitrotoluene	1	17.069	17.146	-0.077	846716	2.50	2.45	a
17 m-Nitrotoluene	1	17.782	17.753	0.029	701292	2.50	2.35	Ma
18 2-Amino-4,6-dinitrotoluene	1	17.935	18.046	-0.111	1135384	2.51	2.44	Ma
19 1,3,5-Trinitrobenzene	1	18.829	18.886	-0.057	1149858	2.51	2.43	a
20 2,6-Dinitrotoluene	1	19.742	19.806	-0.064	736990	2.51	2.53	a
21 2,4-Dinitrotoluene	1	20.235	20.293	-0.058	1523108	2.51	2.38	a
22 Tetryl	1	23.516	23.553	-0.037	875686	2.51	2.38	a
23 2,4,6-Trinitrotoluene	1	24.616	24.653	-0.037	1019741	2.51	2.53	a
24 PETN	2	25.269	25.280	-0.011	3202028	25.0	24.6	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8330IntermStk_00064

Amount Added: 250.00

Units: uL

8330_ADDs_00026

Amount Added: 125.00

Units: uL

Report Date: 15-May-2020 12:00:54

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurolins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d

Injection Date: 14-May-2020 16:16:43

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC FULL 9

Worklist Smp#: 7

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

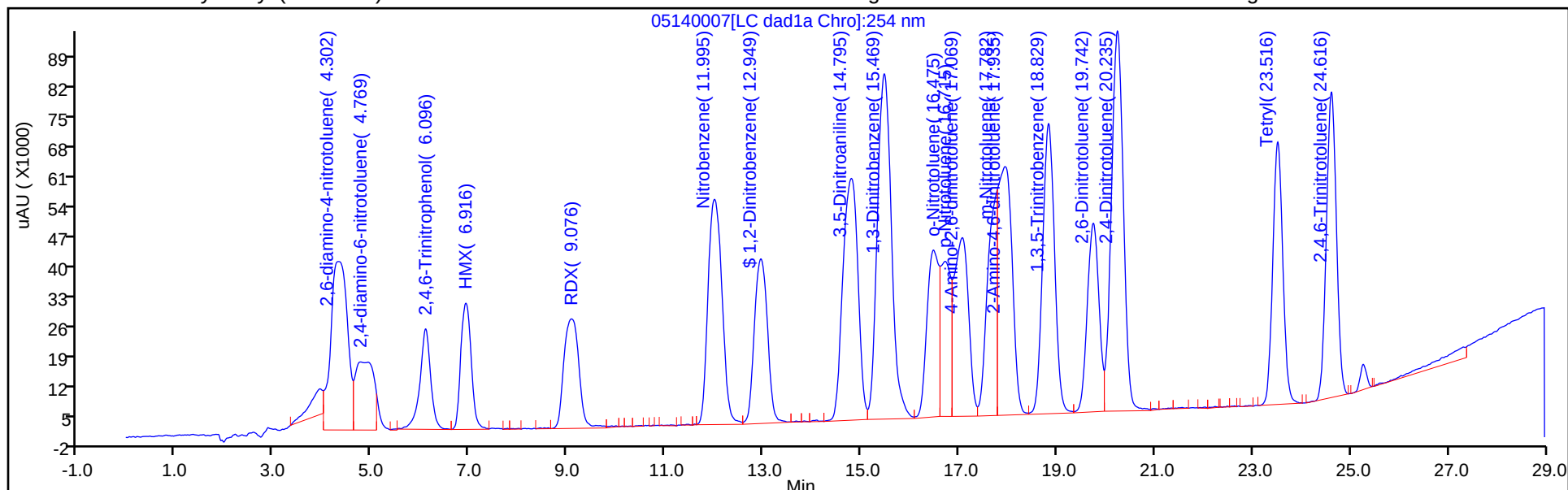
ALS Bottle#: 7

Method: G2_8330_Luna

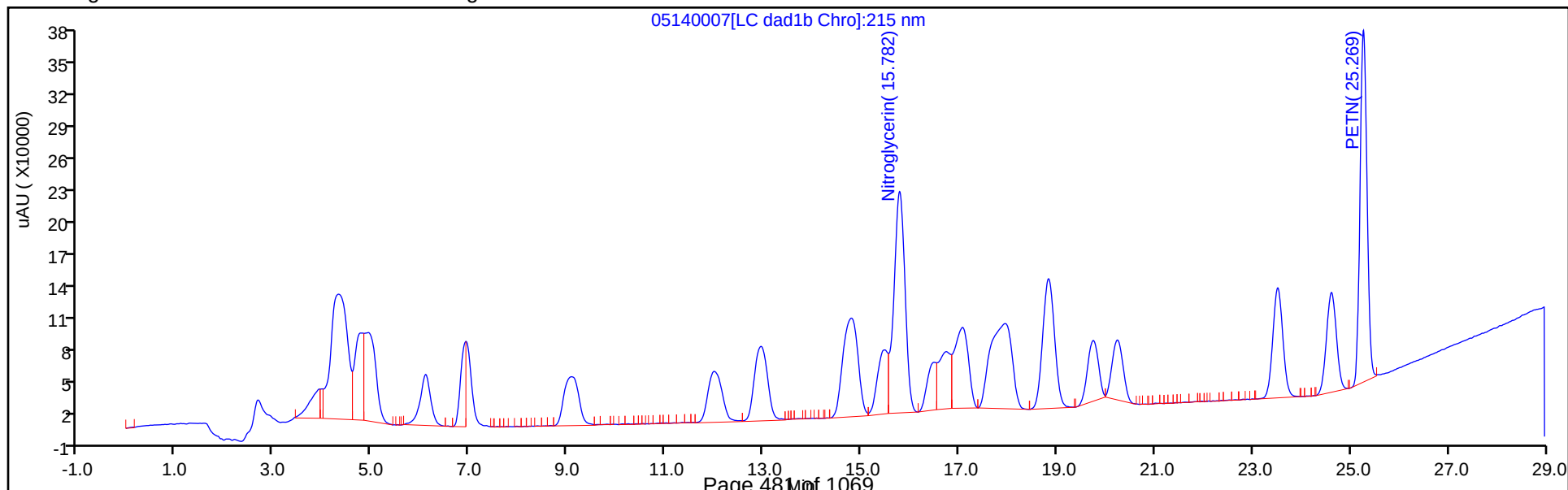
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver

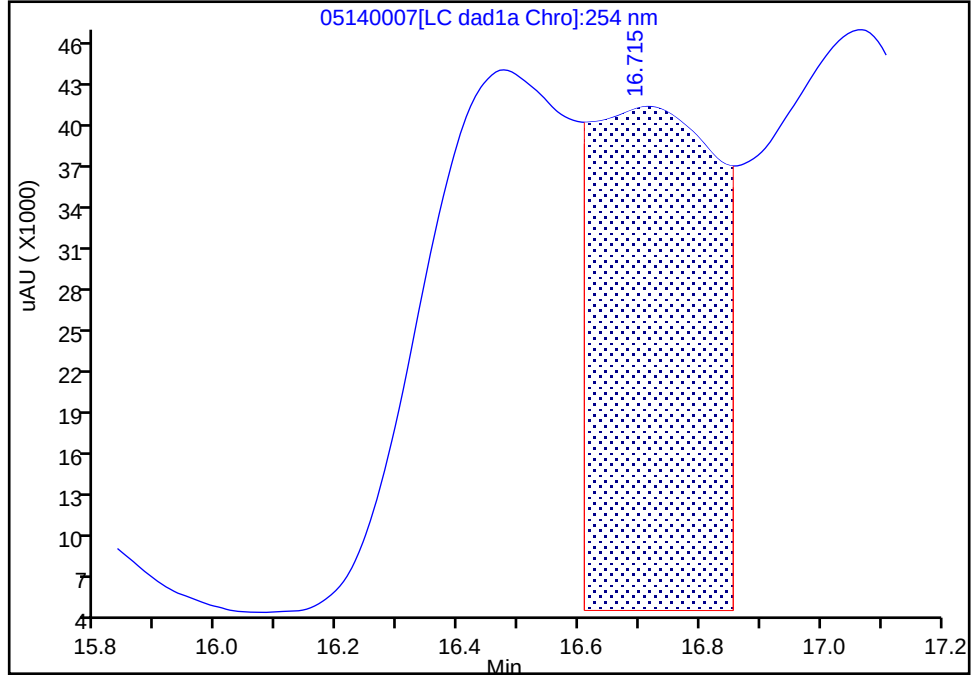
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d
Injection Date: 14-May-2020 16:16:43 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 9
Client ID:
Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

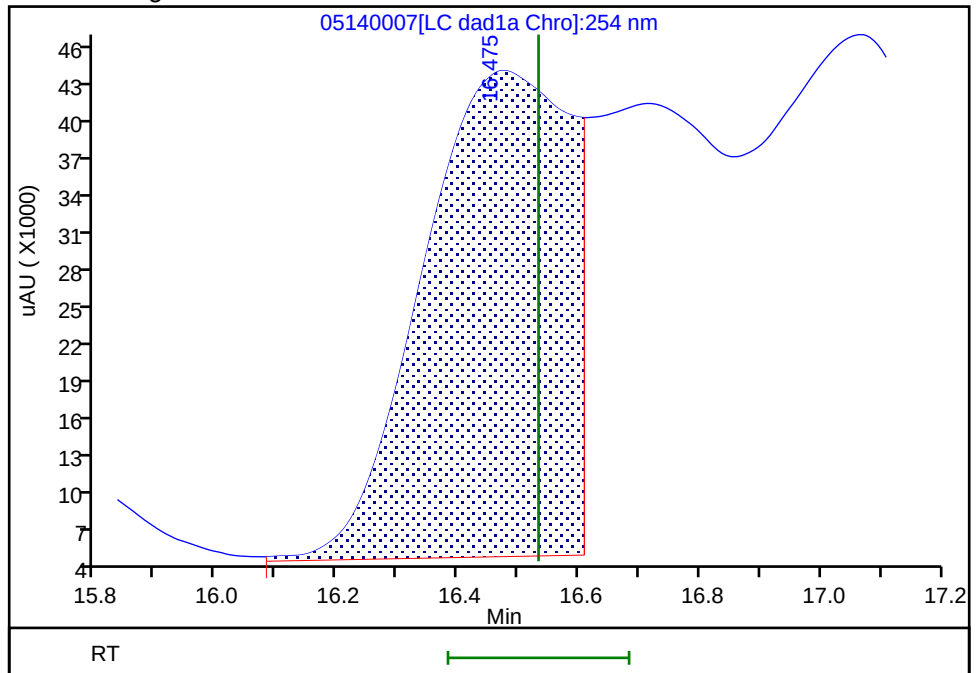
RT: 16.72
Area: 515391
Amount: 1.955872
Amount Units: ug/ml

Processing Integration Results



RT: 16.48
Area: 658375
Amount: 2.411943
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 14-May-2020 17:09:15
Audit Action: Assigned Compound ID

Audit Reason: Split Peak

Eurofins TestAmerica, Denver

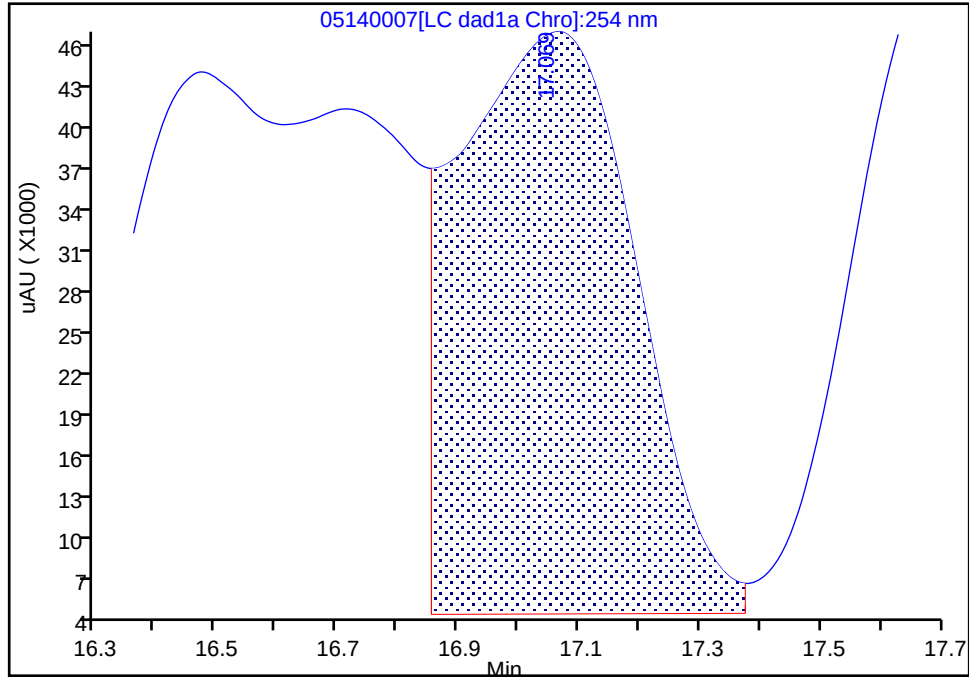
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d
Injection Date: 14-May-2020 16:16:43 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 9
Client ID:
Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

15 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

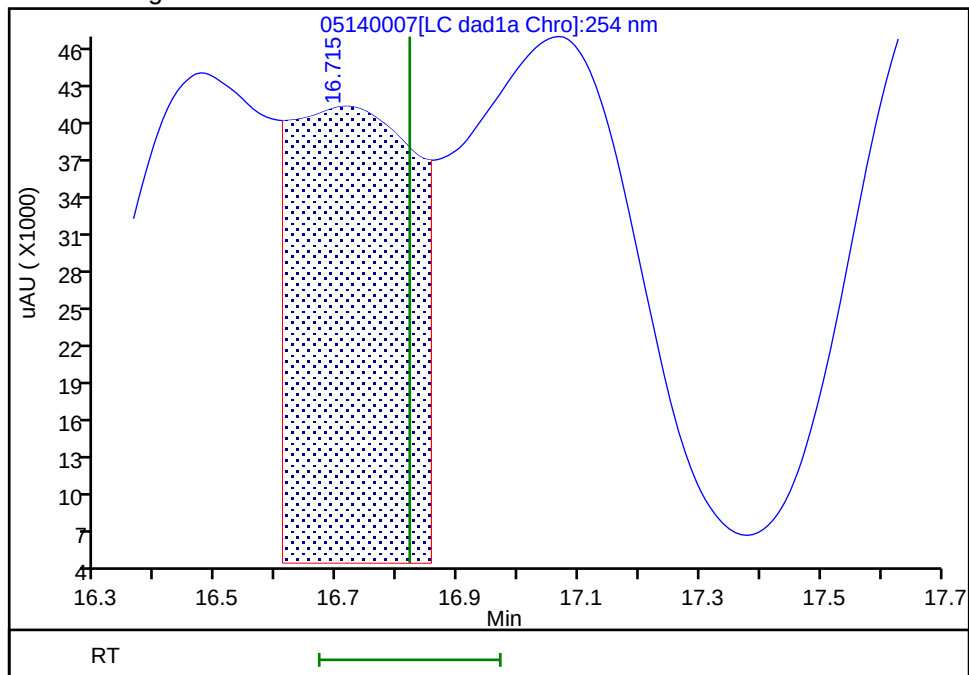
RT: 17.07
Area: 846716
Amount: 4.099164
Amount Units: ug/ml

Processing Integration Results



RT: 16.72
Area: 515391
Amount: 2.139606
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 14-May-2020 17:09:12

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

Eurofins TestAmerica, Denver

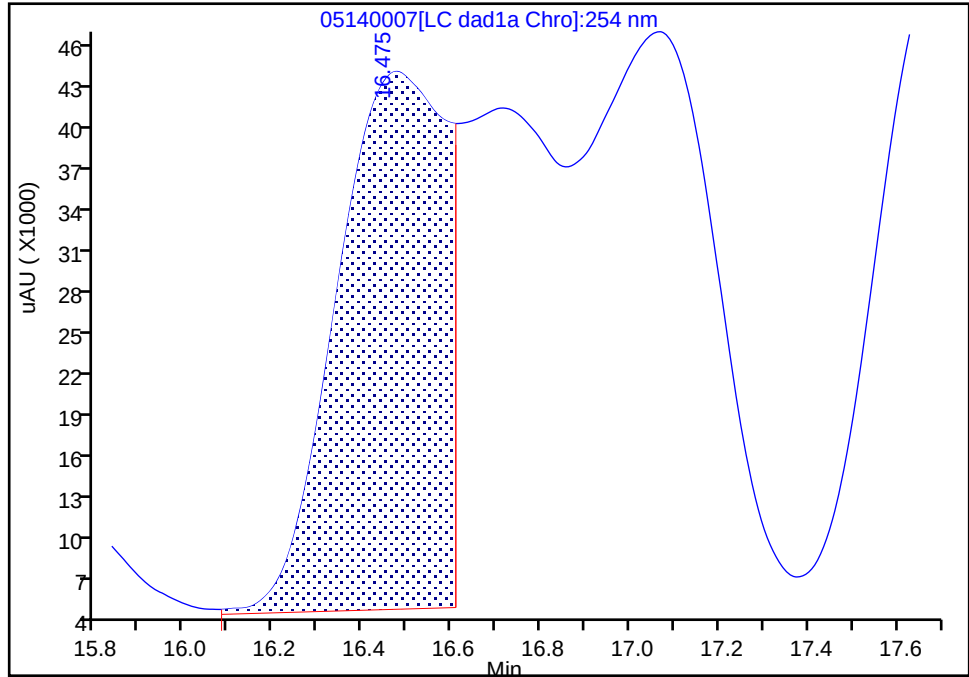
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Injection Date: 14-May-2020 16:16:43 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 9
Client ID:
Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

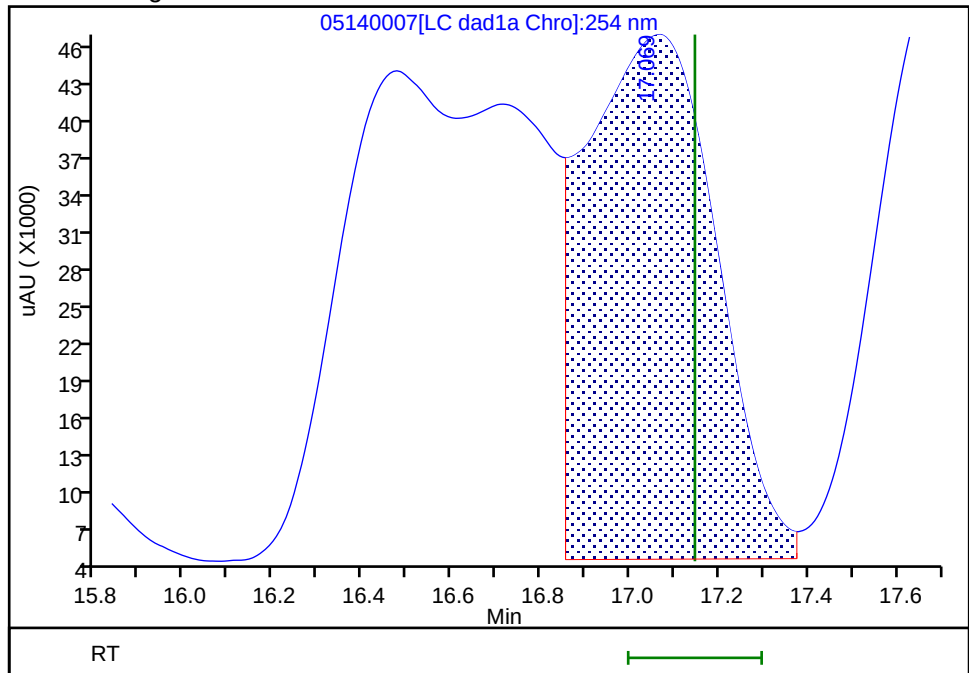
RT: 16.48
Area: 658375
Amount: 2.145710
Amount Units: ug/ml

Processing Integration Results



RT: 17.07
Area: 846716
Amount: 2.452581
Amount Units: ug/ml

Manual Integration Results



Eurofins TestAmerica, Denver

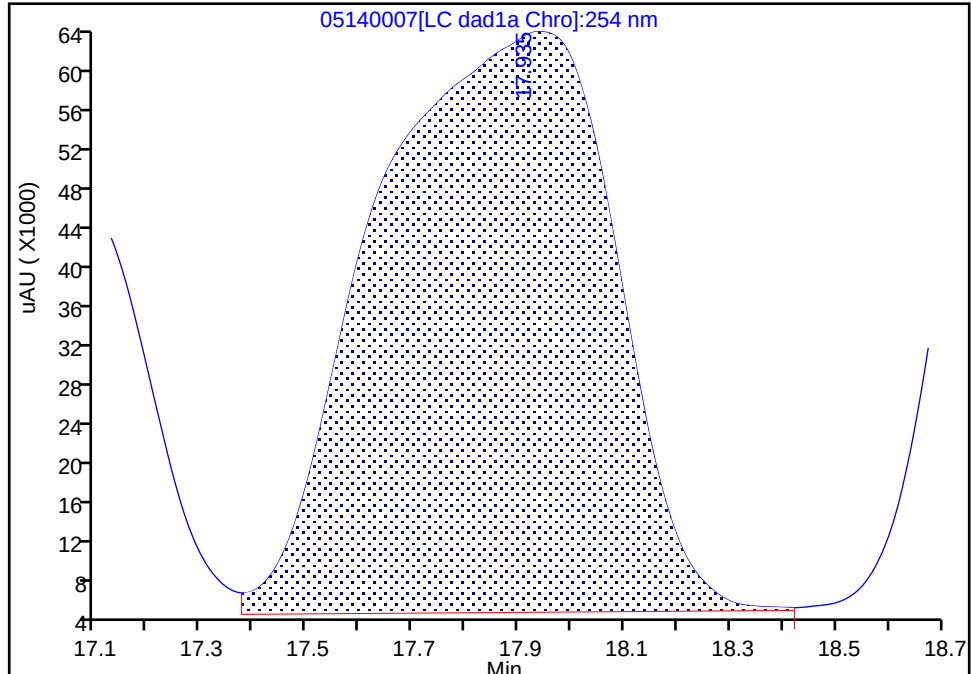
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d
Injection Date: 14-May-2020 16:16:43 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 9
Client ID:
Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

17 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

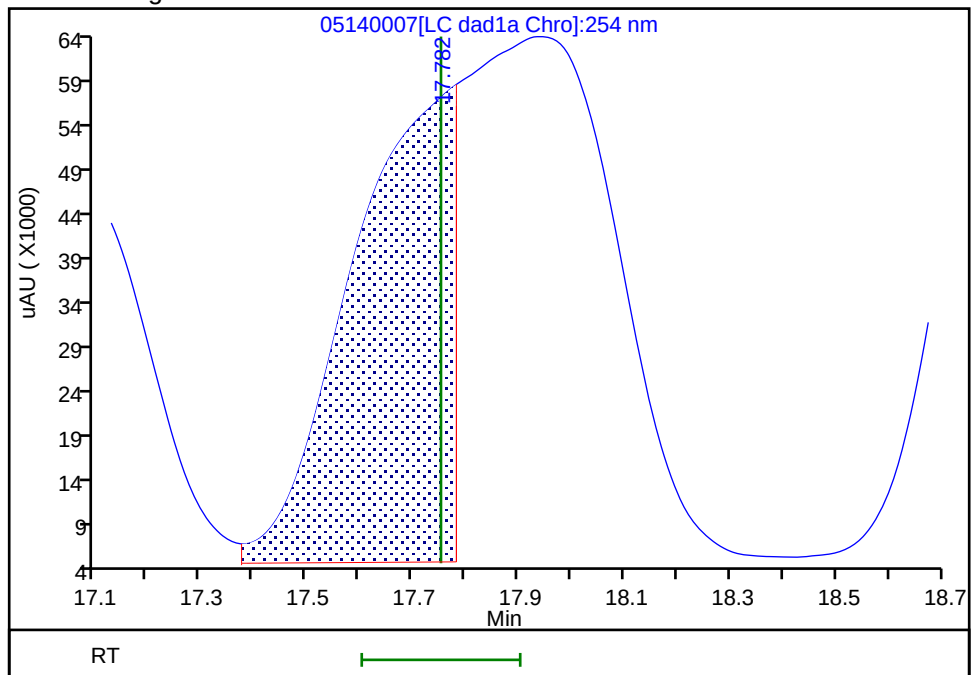
RT: 17.94
Area: 1836650
Amount: 6.513789
Amount Units: ug/ml

Processing Integration Results



RT: 17.78
Area: 701292
Amount: 2.350751
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 14-May-2020 17:08:45

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

Eurofins TestAmerica, Denver

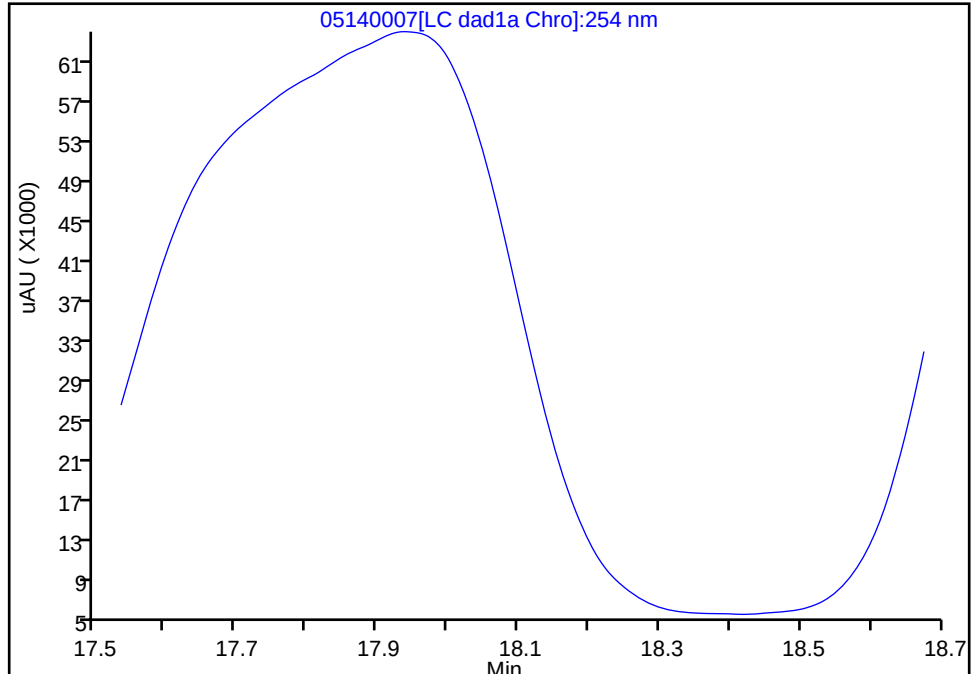
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d
Injection Date: 14-May-2020 16:16:43 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 9
Client ID:
Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

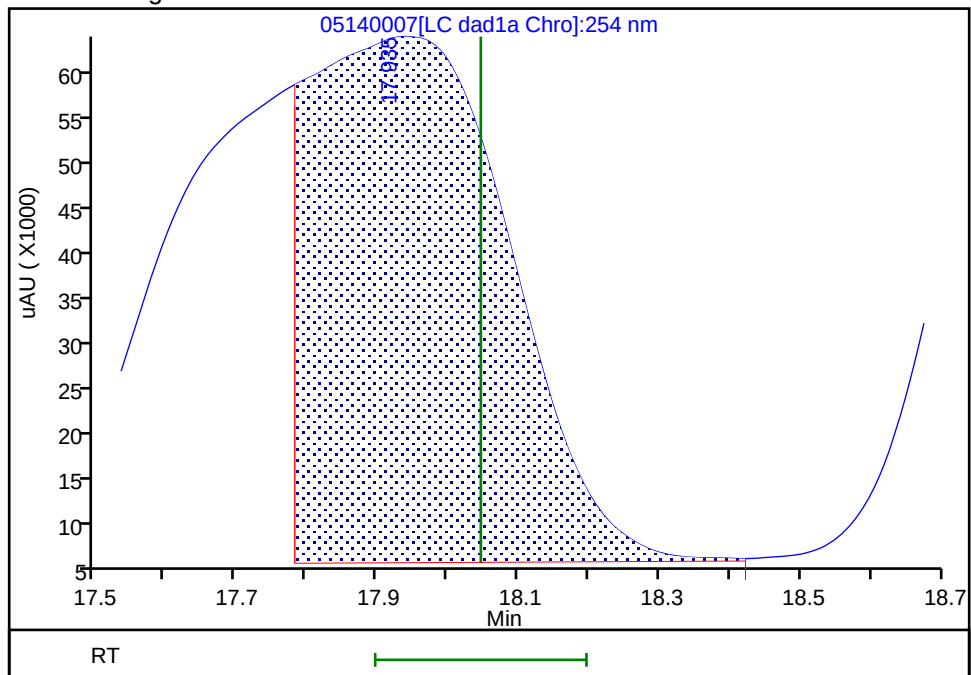
Not Detected
Expected RT: 18.05

Processing Integration Results



RT: 17.94
Area: 1135384
Amount: 2.440578
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 14-May-2020 17:08:40

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins TestAmerica, Denver

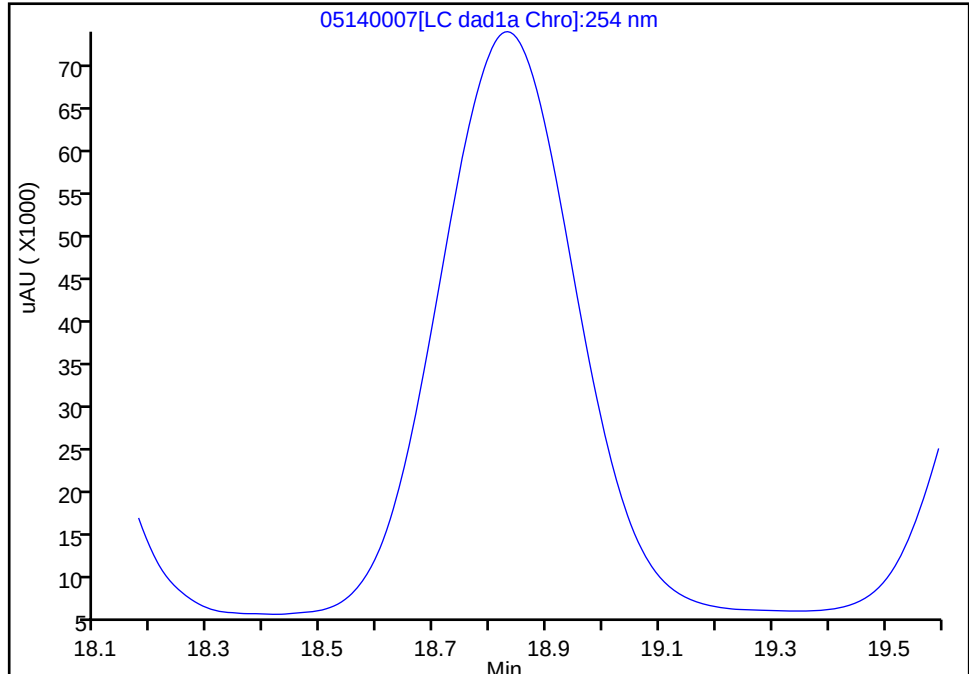
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d
Injection Date: 14-May-2020 16:16:43 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 9
Client ID:
Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

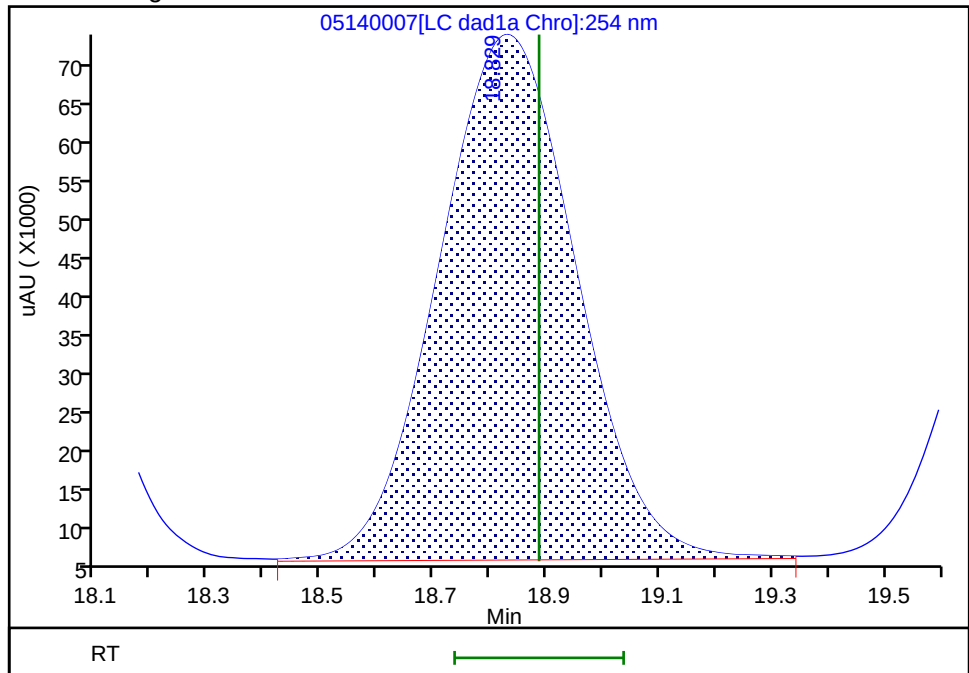
Not Detected
Expected RT: 18.89

Processing Integration Results



RT: 18.83
Area: 1149858
Amount: 2.433816
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 14-May-2020 17:08:26
Audit Action: Assigned Compound ID

Audit Reason:

Eurofins TestAmerica, Denver

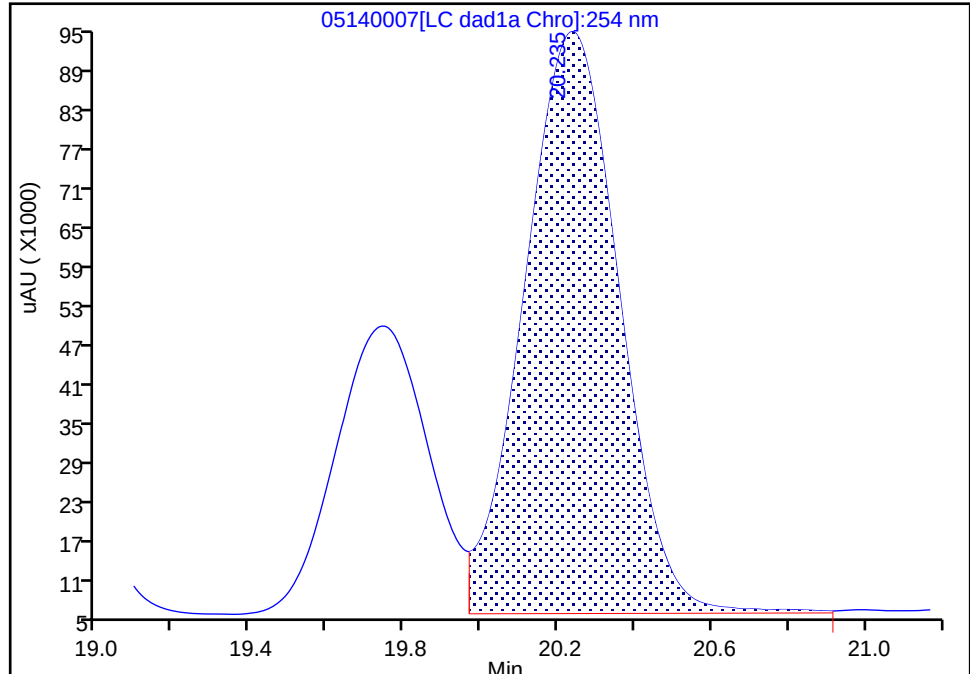
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Injection Date: 14-May-2020 16:16:43 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 9
Client ID:
Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

20 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

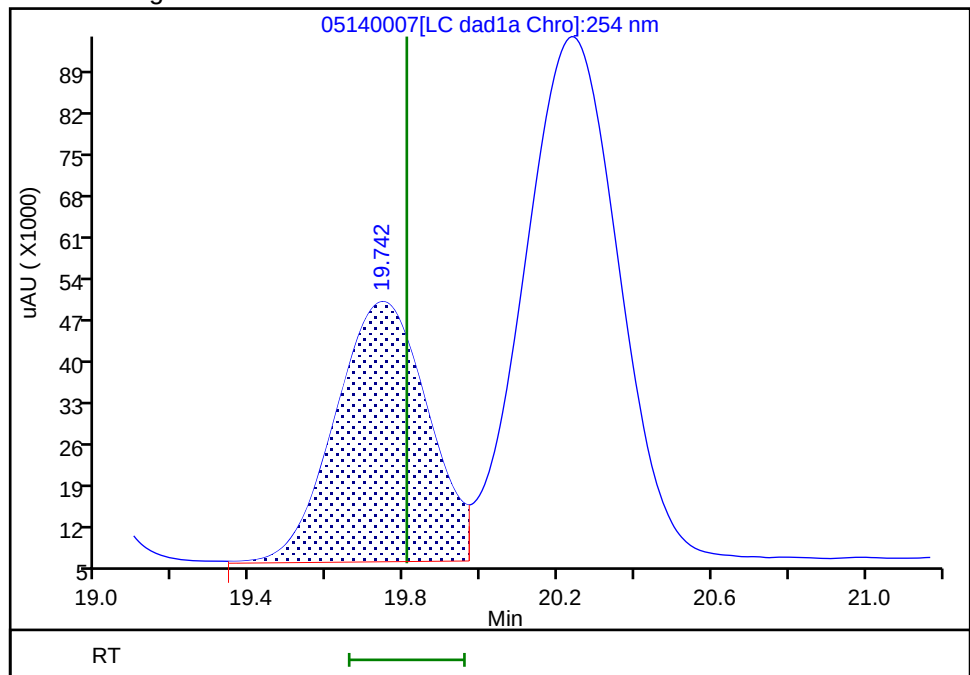
RT: 20.24
Area: 1523108
Amount: 2.510000
Amount Units: ug/ml

Processing Integration Results



RT: 19.74
Area: 736990
Amount: 2.532876
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 14-May-2020 17:08:23
Audit Action: Assigned Compound ID

Audit Reason:

Eurofins TestAmerica, Denver

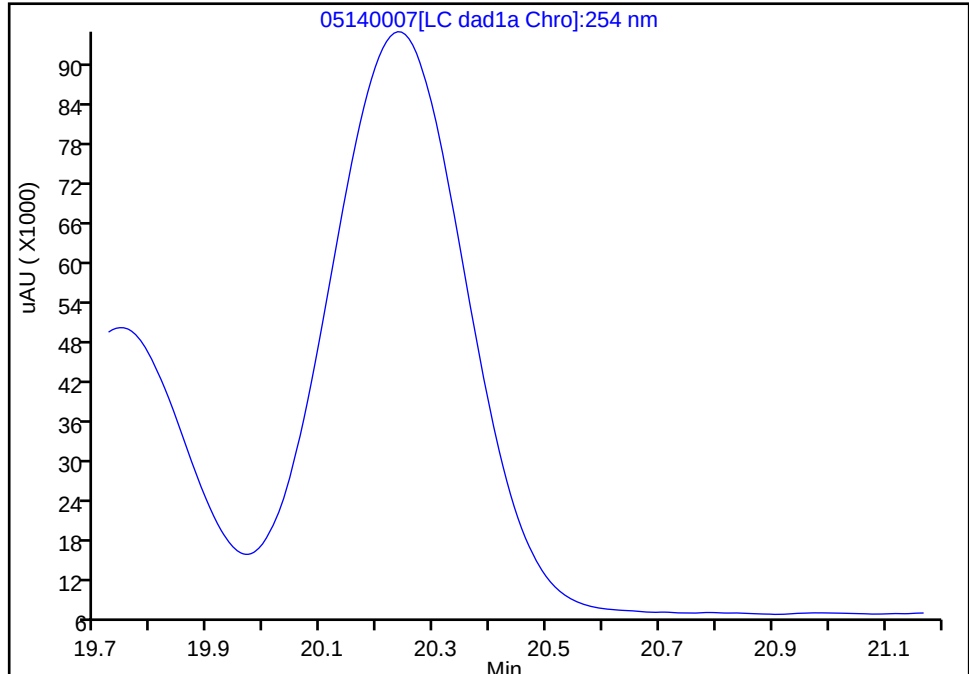
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d
Injection Date: 14-May-2020 16:16:43 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 9
Client ID:
Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

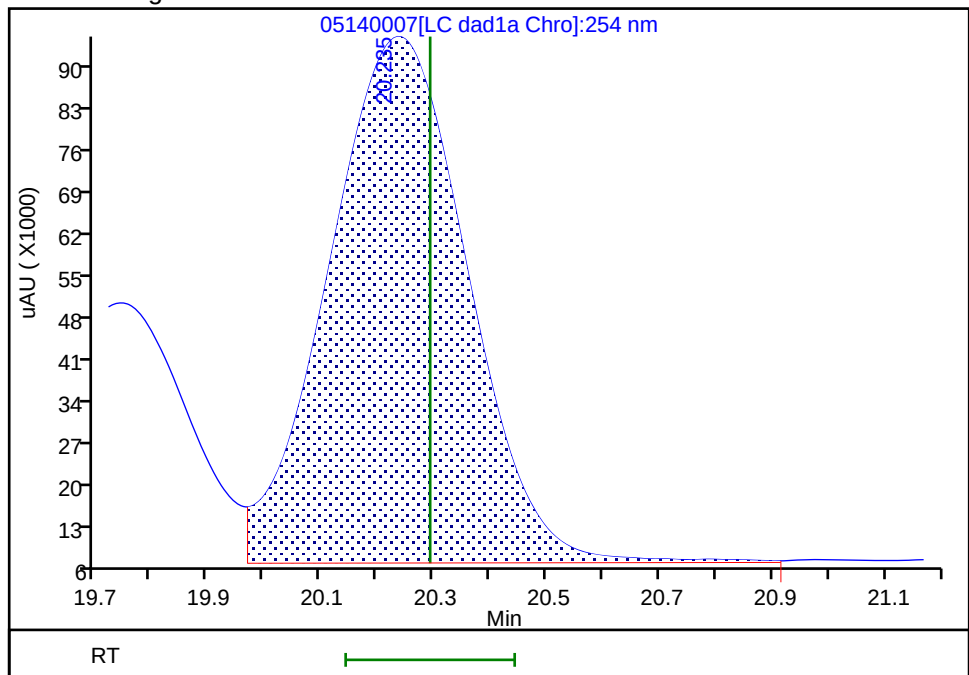
Not Detected
Expected RT: 20.29

Processing Integration Results



RT: 20.24
Area: 1523108
Amount: 2.379435
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 14-May-2020 17:08:20
Audit Action: Assigned Compound ID

Audit Reason:

Eurofins TestAmerica, Denver

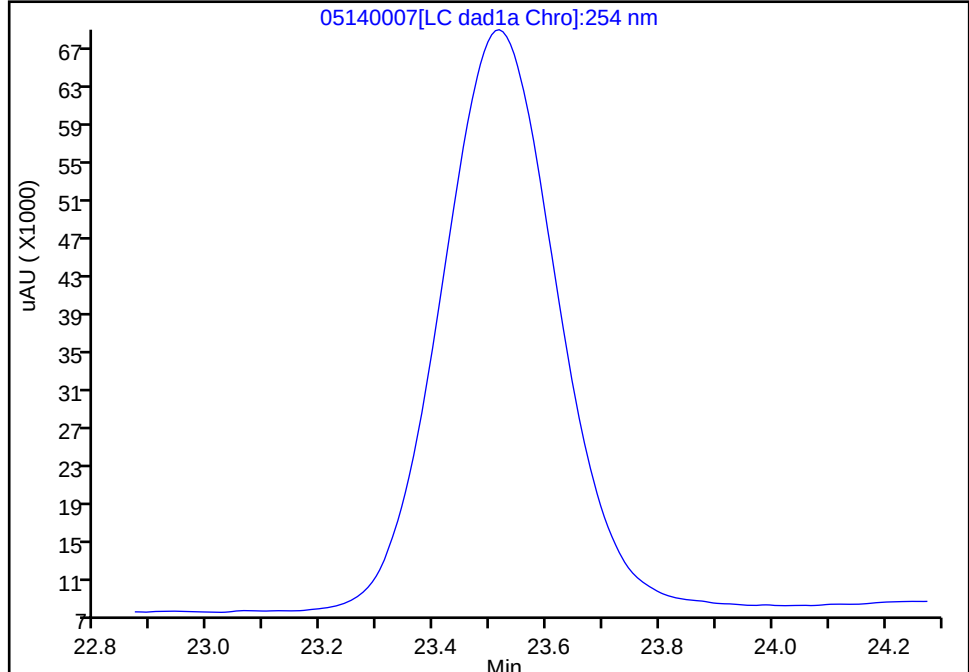
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d
Injection Date: 14-May-2020 16:16:43 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 9
Client ID:
Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

22 Tetryl, CAS: 479-45-8

Signal: 1

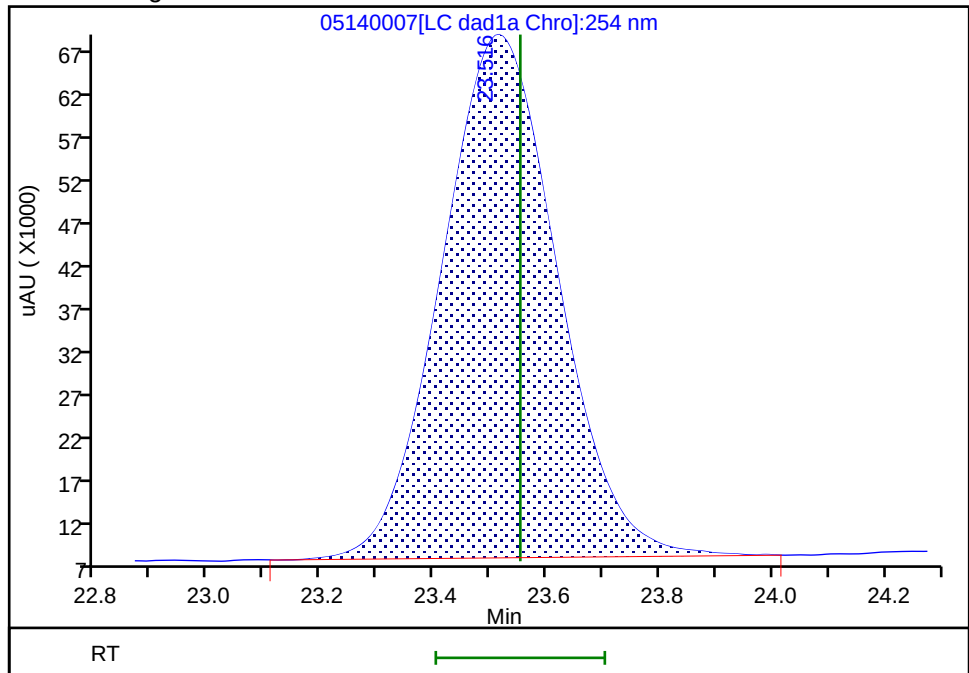
Not Detected
Expected RT: 23.55

Processing Integration Results



RT: 23.52
Area: 875686
Amount: 2.375208
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 14-May-2020 17:08:11
Audit Action: Assigned Compound ID

Audit Reason:
Page 490 of 1069

Eurofins TestAmerica, Denver

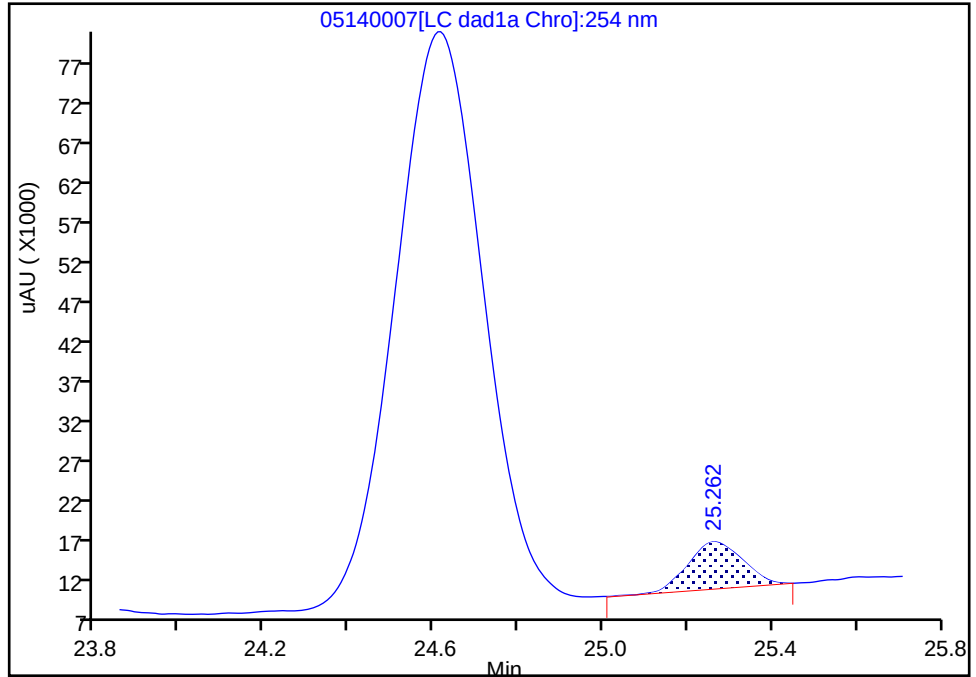
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d
Injection Date: 14-May-2020 16:16:43 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 9
Client ID:
Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

23 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

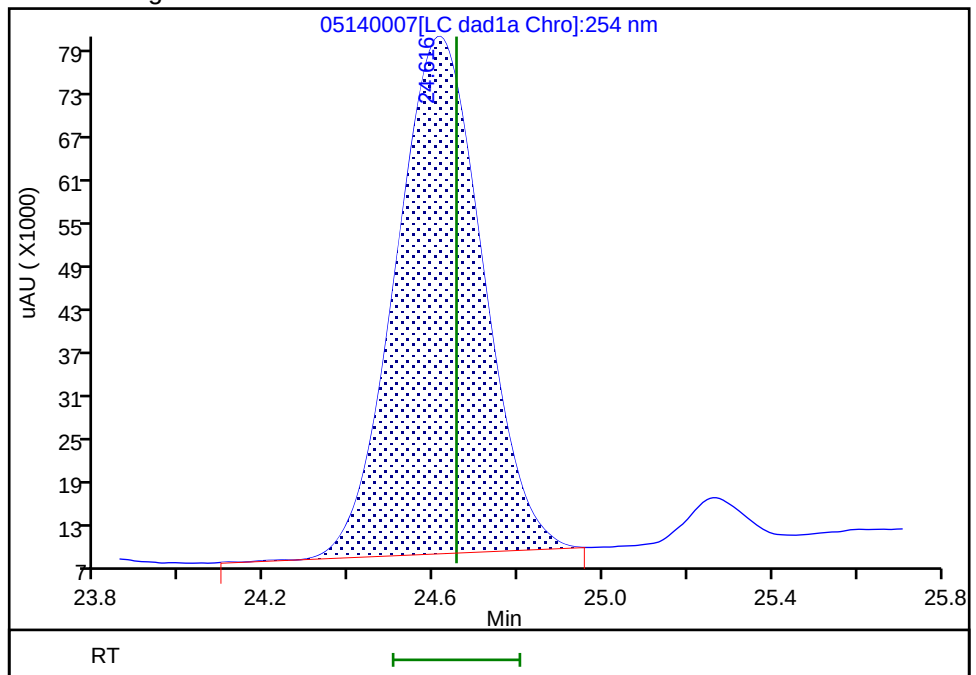
RT: 25.26
Area: 53117
Amount: 0.098897
Amount Units: ug/ml

Processing Integration Results



RT: 24.62
Area: 1019741
Amount: 2.531269
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 14-May-2020 17:08:08
Audit Action: Assigned Compound ID

Audit Reason:

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140008.D
 Lims ID: IC FULL 8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 14-May-2020 16:51:43 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC FULL 8
 Misc. Info.: 280-0091518-008
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub6
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 15-May-2020 12:00:55 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0318

First Level Reviewer: zhangji

Date: 15-May-2020 11:19:25

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	4.315	4.366	-0.051	424864	1.00	0.9896	M
2 2,4-diamino-6-nitrotoluene	1	4.908	4.880	0.028	226554	1.00	0.9296	M
5 2,4,6-Trinitrophenol	1	6.195	6.300	-0.105	174504	1.00	0.9004	
6 HMX	1	6.968	6.986	-0.018	183992	1.00	1.01	
8 RDX	1	9.148	9.173	-0.025	219481	1.00	0.8982	
9 Nitrobenzene	1	12.088	12.106	-0.018	436359	1.00	0.99	
\$ 10 1,2-Dinitrobenzene	1	13.028	13.040	-0.012	274673	1.00	0.9842	M
11 3,5-Dinitroaniline	1	14.868	14.886	-0.018	495596	1.00	1.02	
12 1,3-Dinitrobenzene	1	15.541	15.553	-0.012	669330	1.00	0.99	
13 Nitroglycerin	2	15.848	15.853	-0.005	1284256	10.0	10.1	
14 o-Nitrotoluene	1	16.535	16.533	0.002	261684	1.00	0.9587	
15 p-Nitrotoluene	1	16.815	16.820	-0.005	231517	1.00	0.9611	
16 4-Amino-2,6-dinitrotoluene	1	17.141	17.146	-0.005	321819	1.00	0.9322	
17 m-Nitrotoluene	1	17.741	17.753	-0.012	280653	1.00	0.9408	
18 2-Amino-4,6-dinitrotoluene	1	18.028	18.046	-0.018	455872	1.00	0.9799	
19 1,3,5-Trinitrobenzene	1	18.881	18.886	-0.005	467399	1.00	0.9893	
20 2,6-Dinitrotoluene	1	19.801	19.806	-0.005	298461	1.00	1.02	
21 2,4-Dinitrotoluene	1	20.288	20.293	-0.005	608421	1.00	0.9505	
22 Tetryl	1	23.555	23.553	0.002	350816	1.00	0.9516	
23 2,4,6-Trinitrotoluene	1	24.648	24.653	-0.005	408271	1.00	1.01	
24 PETN	2	25.281	25.280	0.001	1365764	10.0	10.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00064

Amount Added: 100.00

Units: uL

8330_ADDs_00026

Amount Added: 50.00

Units: uL

Report Date: 15-May-2020 12:00:55

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140008.d

Injection Date: 14-May-2020 16:51:43

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC FULL 8

Worklist Smp#: 8

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

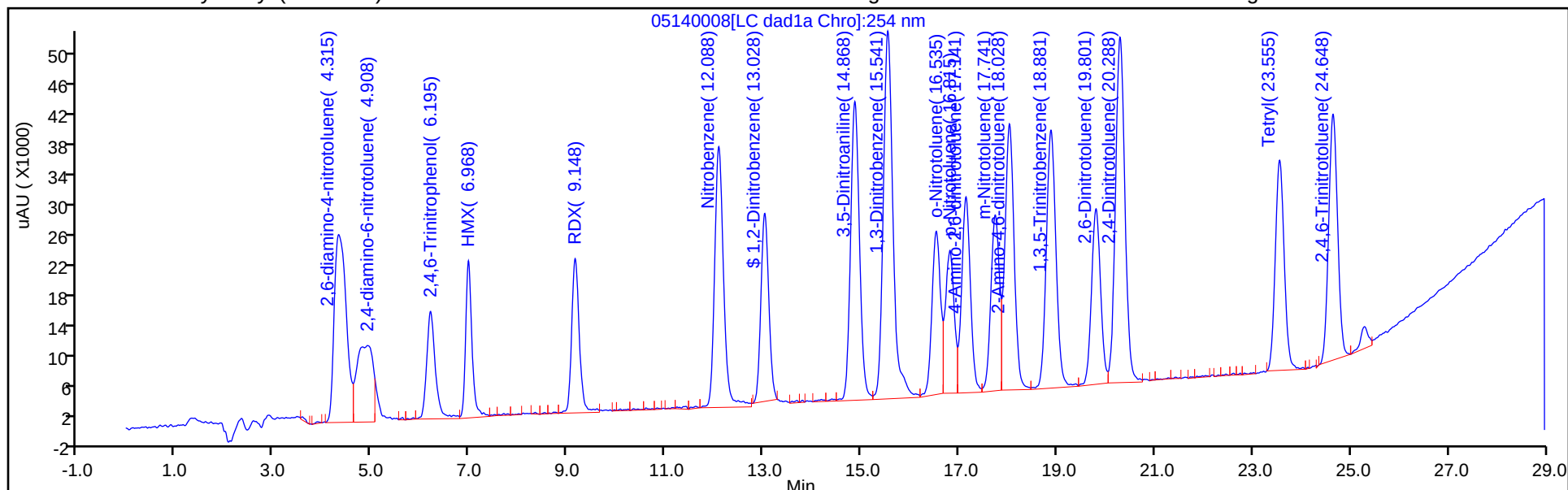
ALS Bottle#: 8

Method: G2_8330_Luna

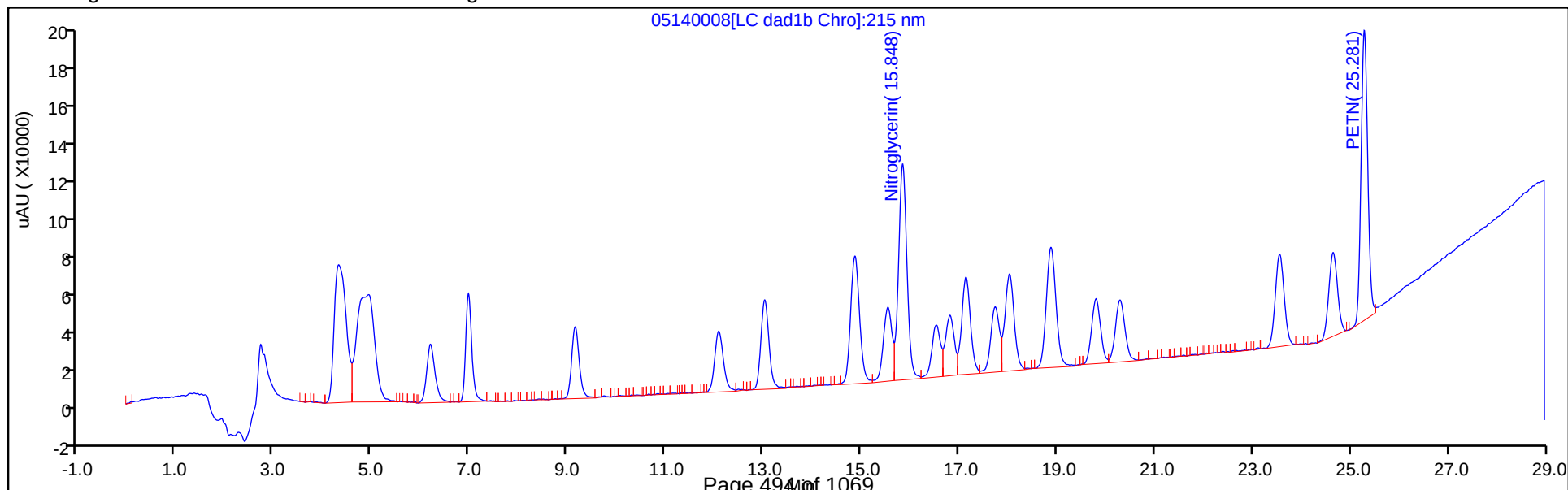
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver

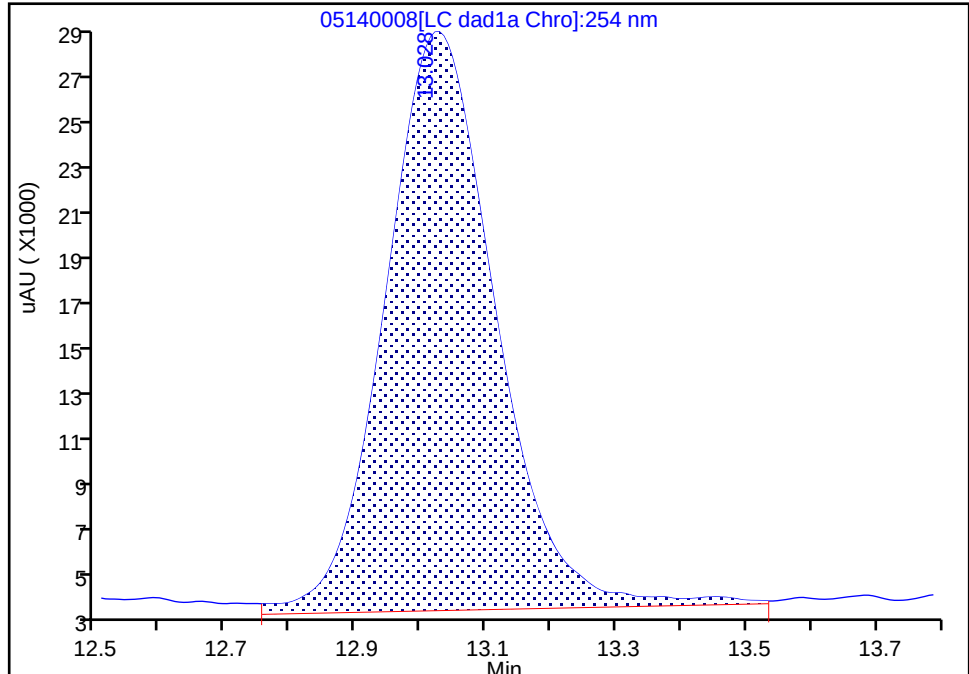
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140008.d
Injection Date: 14-May-2020 16:51:43 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 8
Client ID:
Operator ID: CB ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

\$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

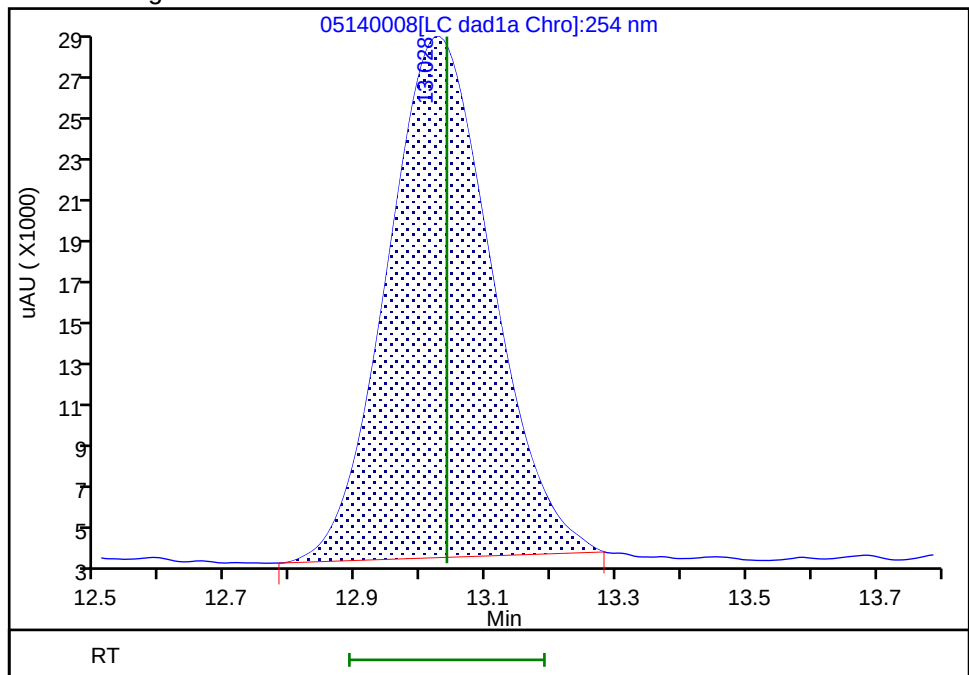
RT: 13.03
Area: 297550
Amount: 0.923853
Amount Units: ug/ml

Processing Integration Results



RT: 13.03
Area: 274673
Amount: 0.984150
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:34:32
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140009.D
 Lims ID: IC FULL 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 14-May-2020 17:26:40 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC FULL 7
 Misc. Info.: 280-0091518-009
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub6
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 15-May-2020 12:00:55 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0318

First Level Reviewer: zhangji

Date: 15-May-2020 11:20:09

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	4.342	4.366	-0.024	272072	0.7000	0.6337	
2 2,4-diamino-6-nitrotoluene	1	4.915	4.880	0.035	176663	0.7000	0.7197	
5 2,4,6-Trinitrophenol	1	6.235	6.300	-0.065	118579	0.7000	0.6118	
6 HMX	1	6.982	6.986	-0.004	125697	0.7000	0.6800	
8 RDX	1	9.162	9.173	-0.011	152096	0.7000	0.6224	
9 Nitrobenzene	1	12.095	12.106	-0.011	295388	0.7028	0.6725	
\$ 10 1,2-Dinitrobenzene	1	13.028	13.040	-0.012	184773	0.7000	0.6599	M
11 3,5-Dinitroaniline	1	14.875	14.886	-0.011	320559	0.7000	0.6552	
12 1,3-Dinitrobenzene	1	15.548	15.553	-0.005	463638	0.7014	0.6877	
13 Nitroglycerin	2	15.842	15.853	-0.011	852305	7.00	6.72	
14 o-Nitrotoluene	1	16.535	16.533	0.002	181444	0.7000	0.6647	
15 p-Nitrotoluene	1	16.808	16.820	-0.012	165213	0.7014	0.6859	
16 4-Amino-2,6-dinitrotoluene	1	17.142	17.146	-0.004	223840	0.7007	0.6484	
17 m-Nitrotoluene	1	17.742	17.753	-0.011	200617	0.7007	0.6725	
18 2-Amino-4,6-dinitrotoluene	1	18.035	18.046	-0.011	319742	0.7028	0.6873	
19 1,3,5-Trinitrobenzene	1	18.875	18.886	-0.011	323482	0.7014	0.6847	
20 2,6-Dinitrotoluene	1	19.795	19.806	-0.011	206984	0.7028	0.7003	
21 2,4-Dinitrotoluene	1	20.288	20.293	-0.005	425741	0.7028	0.6651	
22 Tetryl	1	23.542	23.553	-0.011	245833	0.7014	0.6668	
23 2,4,6-Trinitrotoluene	1	24.642	24.653	-0.011	282035	0.7028	0.6944	
24 PETN	2	25.275	25.280	-0.005	957879	7.00	7.20	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330_ADDs_00026

Amount Added: 35.00

Units: uL

8330IntermStk_00064

Amount Added: 70.00

Units: uL

Report Date: 15-May-2020 12:00:55

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140009.d

Injection Date: 14-May-2020 17:26:40

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC FULL 7

Worklist Smp#: 9

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

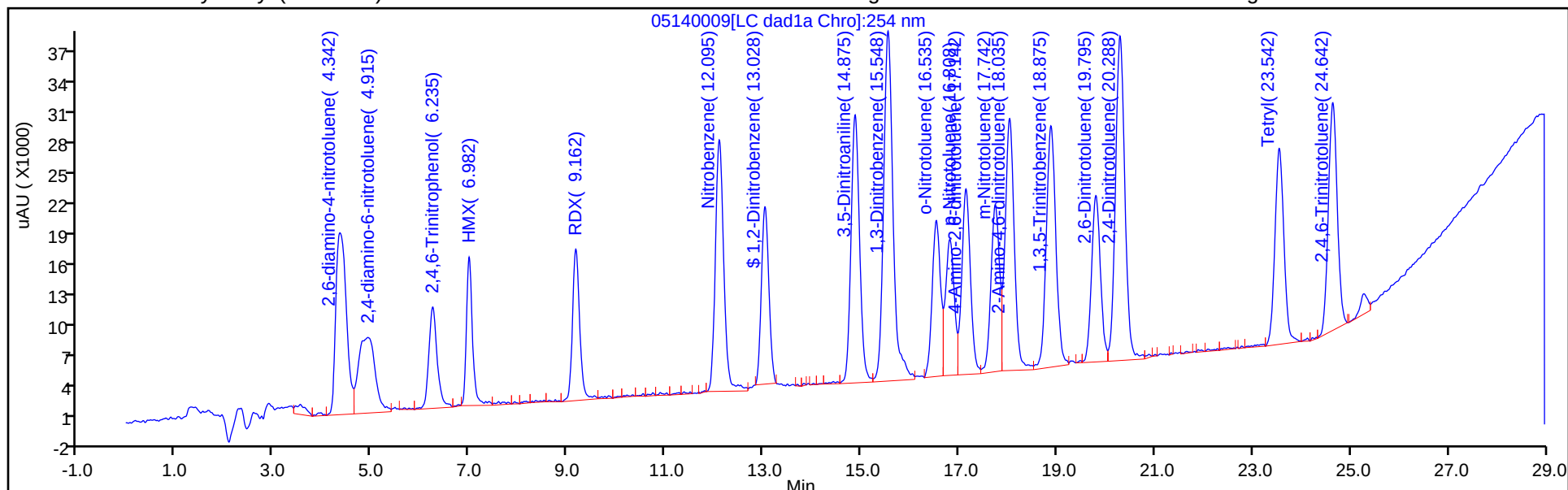
ALS Bottle#: 9

Method: G2_8330_Luna

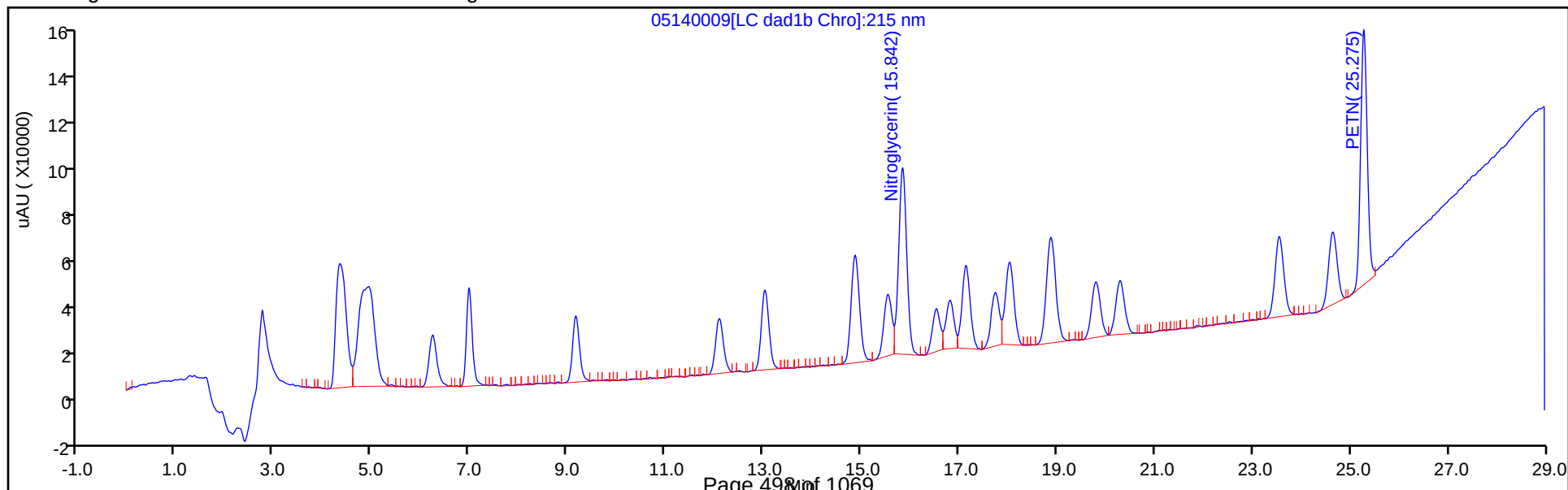
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver

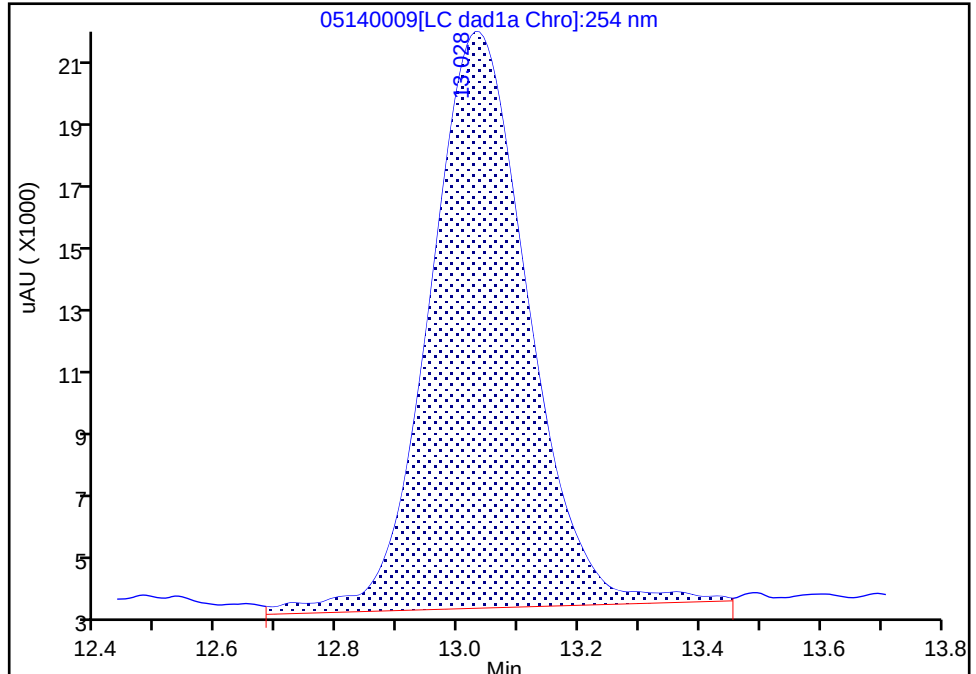
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140009.d
Injection Date: 14-May-2020 17:26:40 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 7
Client ID:
Operator ID: CB ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

\$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

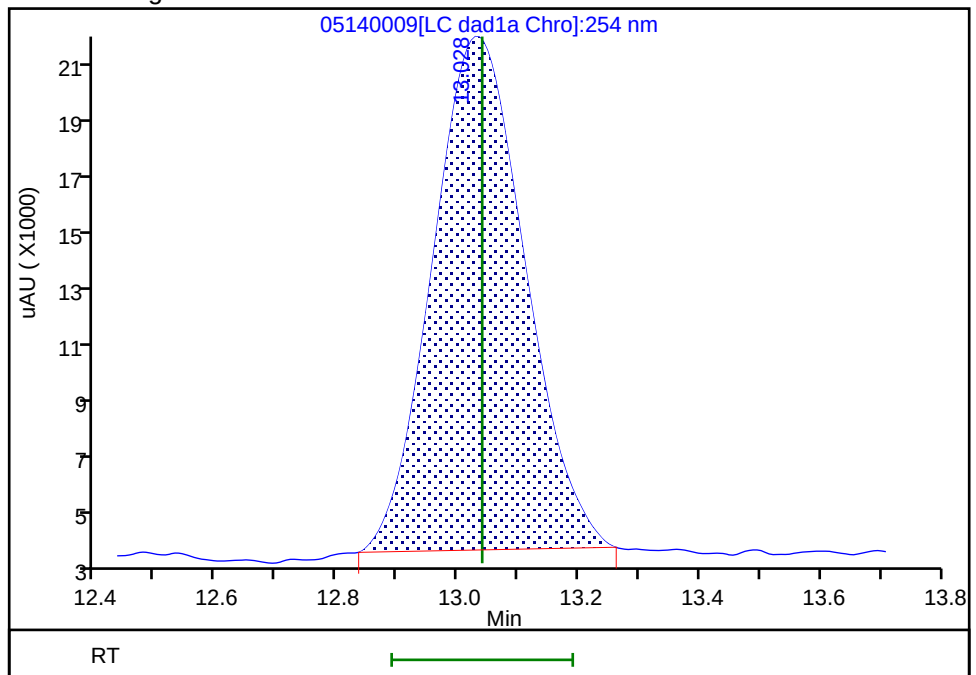
RT: 13.03
Area: 203295
Amount: 0.637674
Amount Units: ug/ml

Processing Integration Results



RT: 13.03
Area: 184773
Amount: 0.659868
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:34:40
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140010.D
 Lims ID: IC FULL 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 14-May-2020 18:01:41 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC FULL 6
 Misc. Info.: 280-0091518-010
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub6
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 15-May-2020 12:00:56 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0318

First Level Reviewer: zhangji

Date: 15-May-2020 11:52:49

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	4.347	4.366	-0.019	161291	0.4000	0.3757	M
2 2,4-diamino-6-nitrotoluene	1	4.940	4.880	0.060	100170	0.4000	0.3980	M
5 2,4,6-Trinitrophenol	1	6.267	6.300	-0.033	68021	0.4000	0.3510	a
6 HMX	1	6.987	6.986	0.001	74484	0.4000	0.3907	
8 RDX	1	9.173	9.173	0.000	88545	0.4000	0.3624	
9 Nitrobenzene	1	12.107	12.106	0.001	166107	0.4016	0.3782	
\$ 10 1,2-Dinitrobenzene	1	13.040	13.040	0.000	107232	0.4000	0.3802	M
11 3,5-Dinitroaniline	1	14.887	14.886	0.001	190015	0.4000	0.3861	M
12 1,3-Dinitrobenzene	1	15.553	15.553	0.000	258559	0.4008	0.3835	M
13 Nitroglycerin	2	15.853	15.853	0.000	509915	4.00	4.02	
14 o-Nitrotoluene	1	16.540	16.533	0.007	105493	0.4000	0.3865	M
15 p-Nitrotoluene	1	16.820	16.820	0.000	93773	0.4008	0.3893	M
16 4-Amino-2,6-dinitrotoluene	1	17.153	17.146	0.007	130436	0.4004	0.3778	M
17 m-Nitrotoluene	1	17.747	17.753	-0.006	115331	0.4004	0.3866	M
18 2-Amino-4,6-dinitrotoluene	1	18.040	18.046	-0.006	179358	0.4016	0.3855	M
19 1,3,5-Trinitrobenzene	1	18.887	18.886	0.001	178692	0.4008	0.3782	
20 2,6-Dinitrotoluene	1	19.807	19.806	0.001	118093	0.4016	0.3930	M
21 2,4-Dinitrotoluene	1	20.293	20.293	0.000	245009	0.4016	0.3828	M
22 Tetryl	1	23.553	23.553	0.000	139850	0.4008	0.3793	
23 2,4,6-Trinitrotoluene	1	24.647	24.653	-0.006	158091	0.4016	0.3858	
24 PETN	2	25.280	25.280	0.000	557734	4.00	4.10	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8330IntermStk_00064

Amount Added: 40.00

Units: uL

8330_ADDs_00026

Amount Added: 20.00

Units: uL

Report Date: 15-May-2020 12:00:56

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d

Injection Date: 14-May-2020 18:01:41

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC FULL 6

Worklist Smp#: 10

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

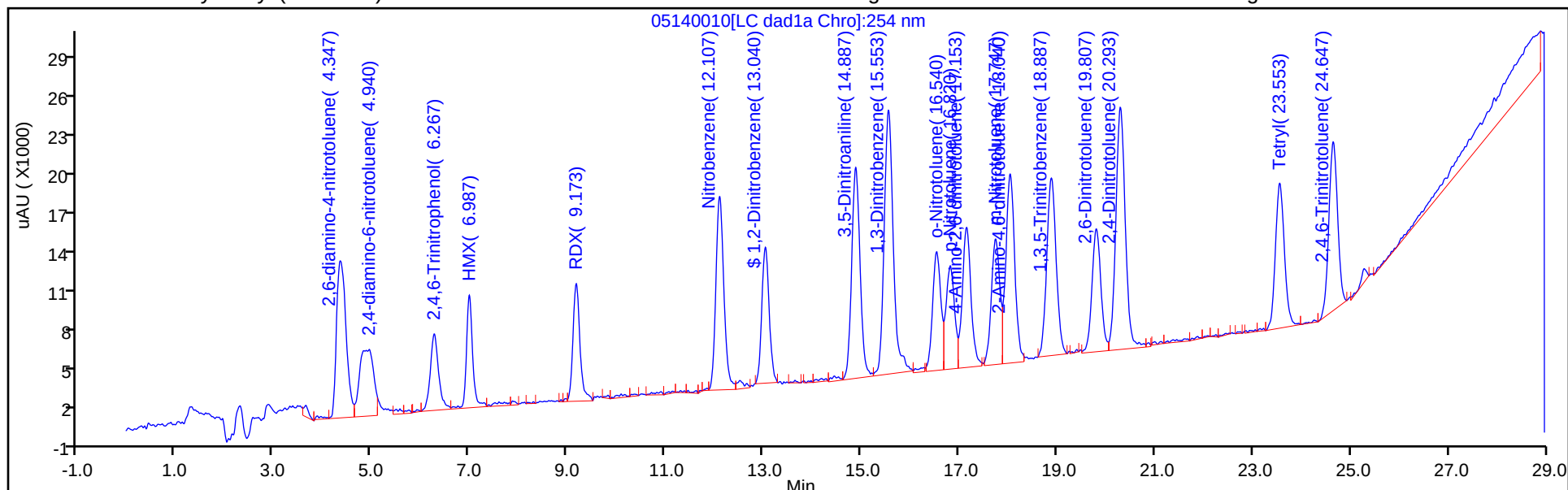
ALS Bottle#: 10

Method: G2_8330_Luna

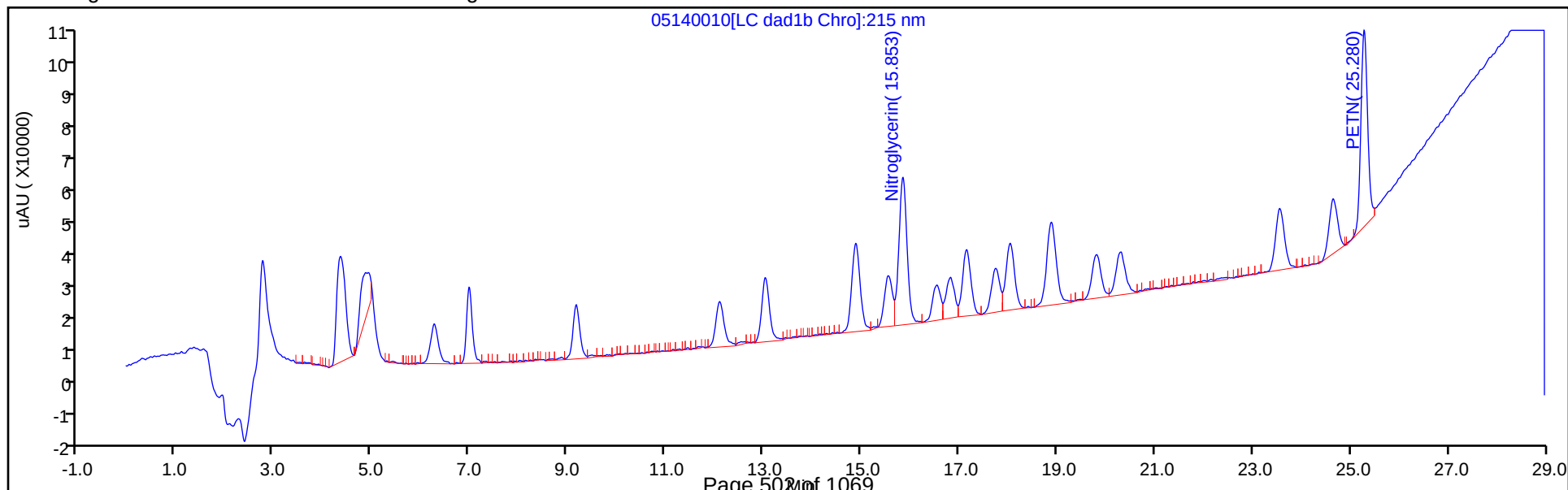
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver

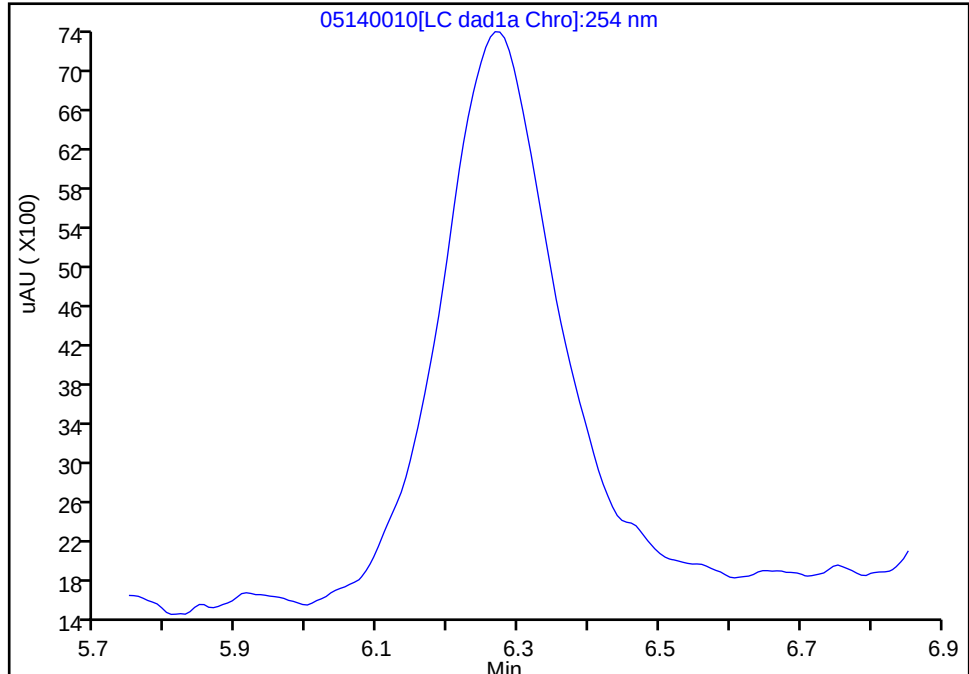
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Injection Date: 14-May-2020 18:01:41 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 6
Client ID:
Operator ID: CB ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

5 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

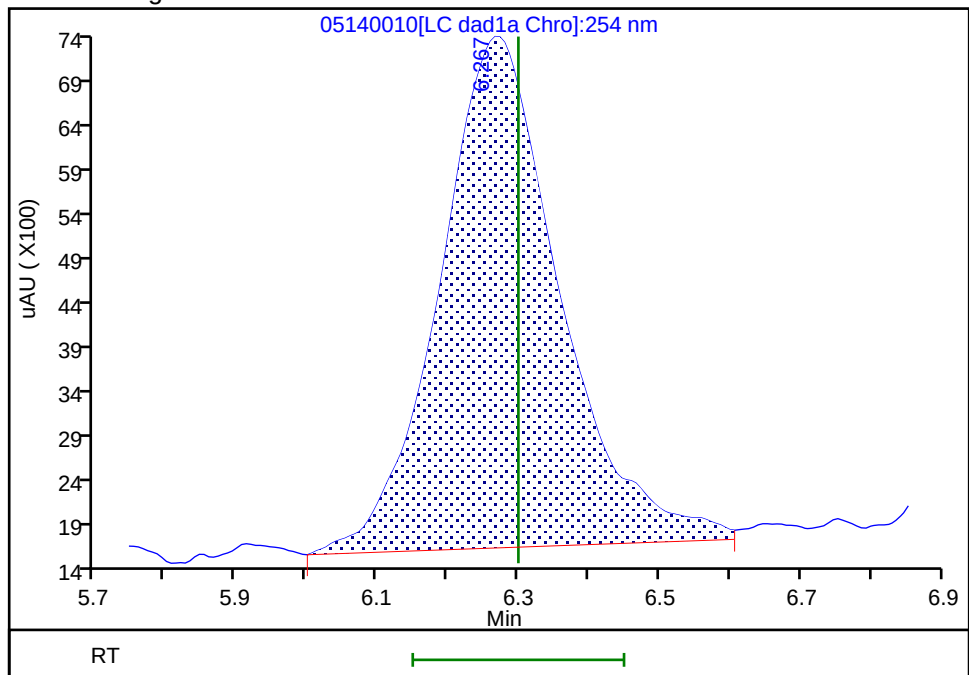
Not Detected
Expected RT: 6.30

Processing Integration Results



RT: 6.27
Area: 68021
Amount: 0.350967
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:20:14
Audit Action: Assigned Compound ID

Audit Reason:

Eurofins TestAmerica, Denver

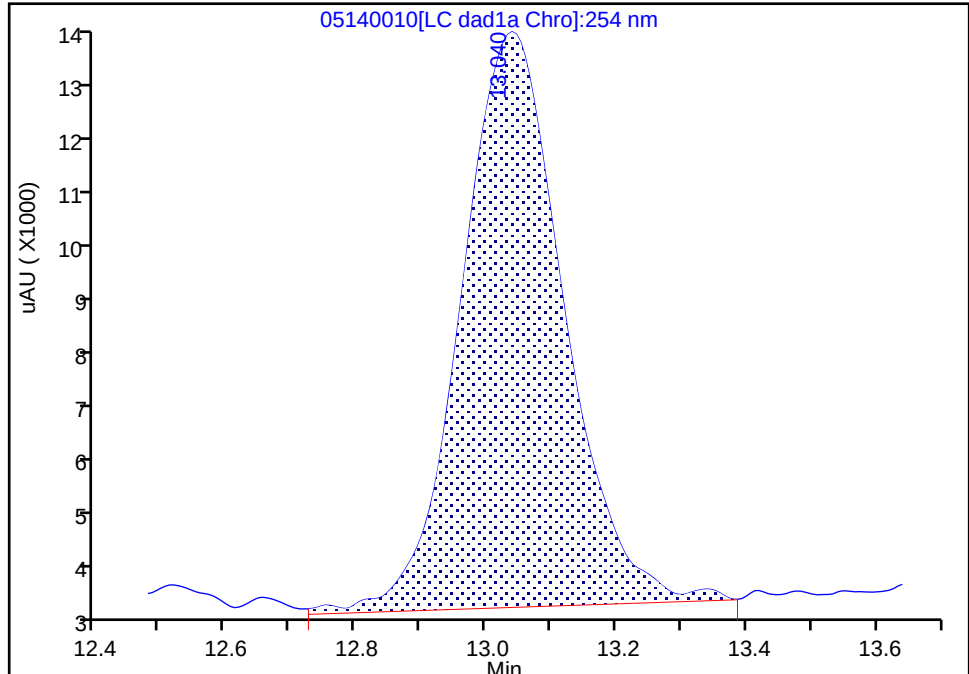
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d
Injection Date: 14-May-2020 18:01:41 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 6
Client ID:
Operator ID: CB ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

\$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

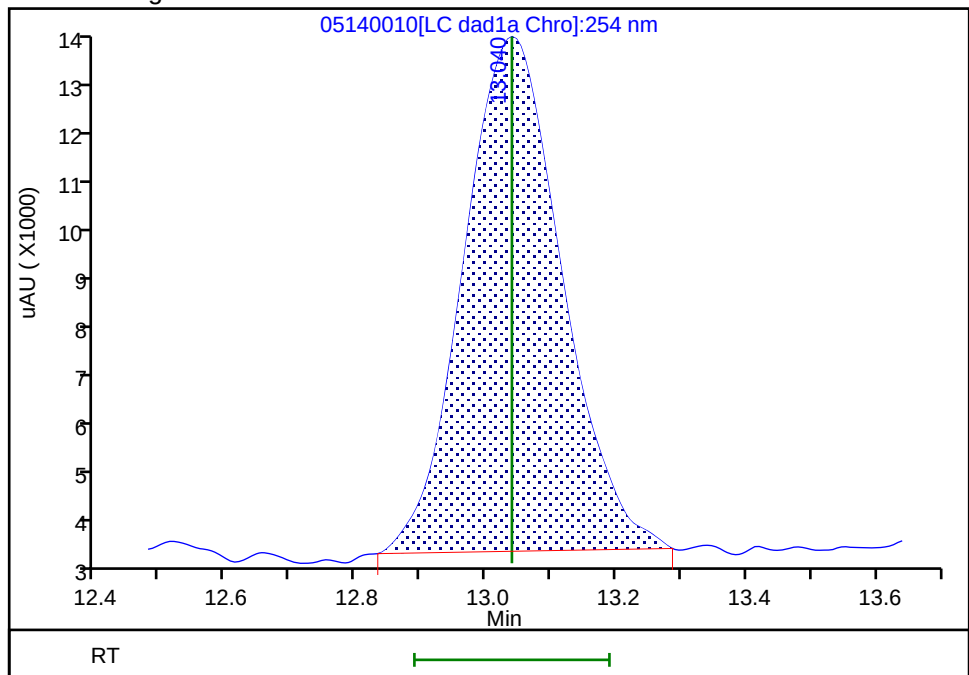
RT: 13.04
Area: 114682
Amount: 0.364039
Amount Units: ug/ml

Processing Integration Results



RT: 13.04
Area: 107232
Amount: 0.380167
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:34:50
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

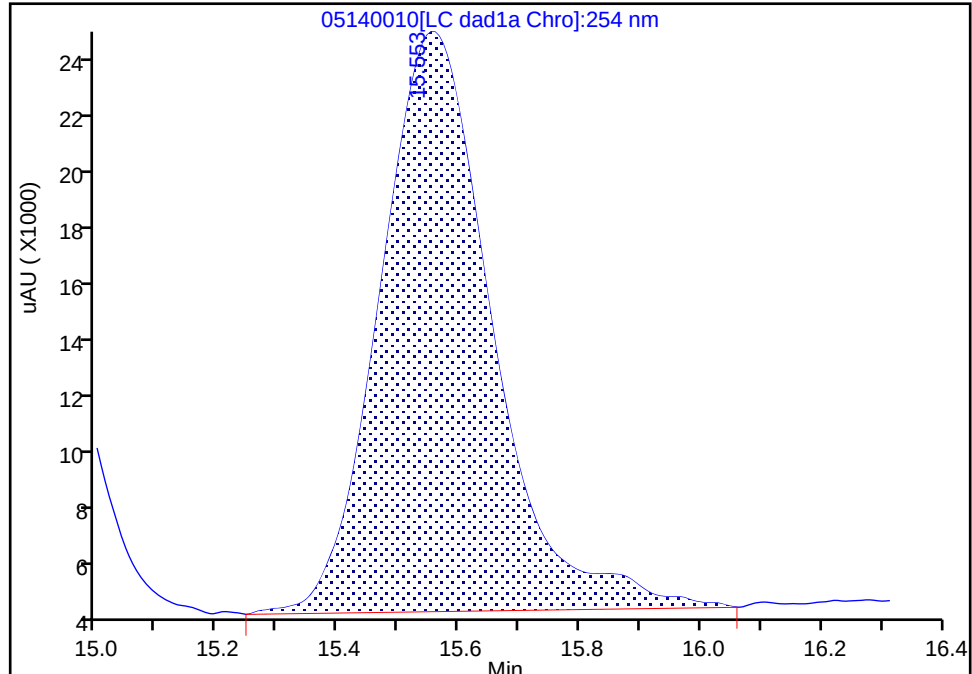
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d
Injection Date: 14-May-2020 18:01:41 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 6
Client ID:
Operator ID: CB ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

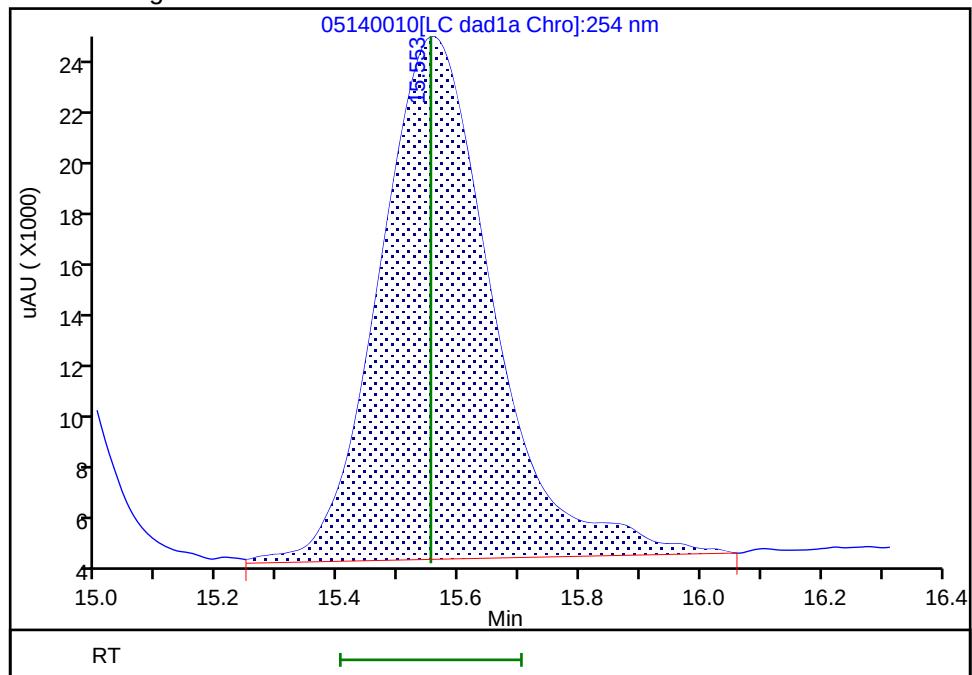
RT: 15.55
Area: 255534
Amount: 0.374138
Amount Units: ug/ml

Processing Integration Results



RT: 15.55
Area: 258559
Amount: 0.383511
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:20:35
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

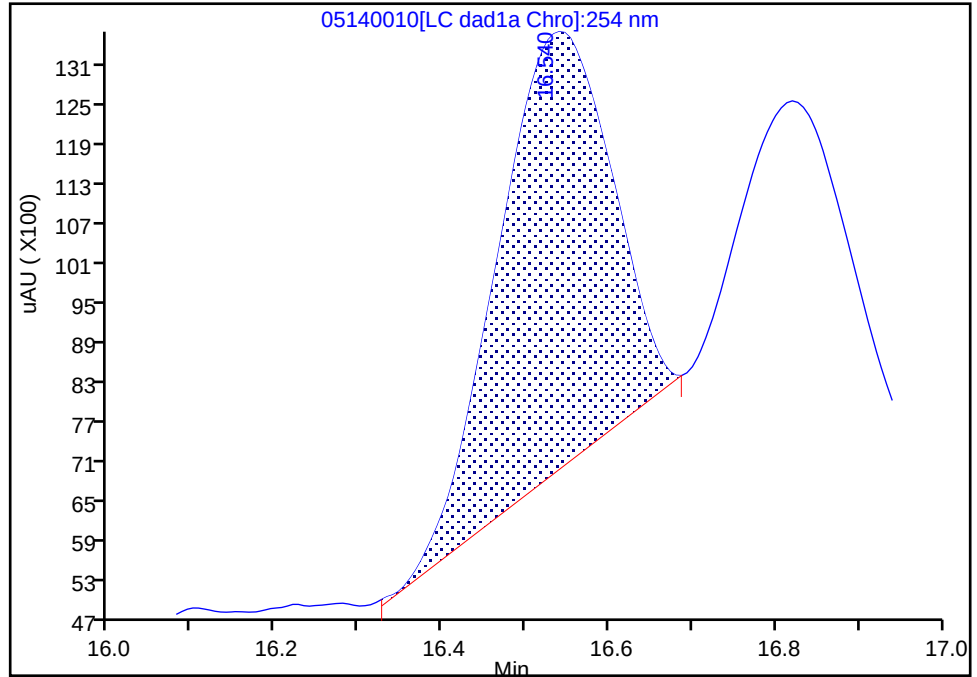
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d
Injection Date: 14-May-2020 18:01:41 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 6
Client ID:
Operator ID: CB ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

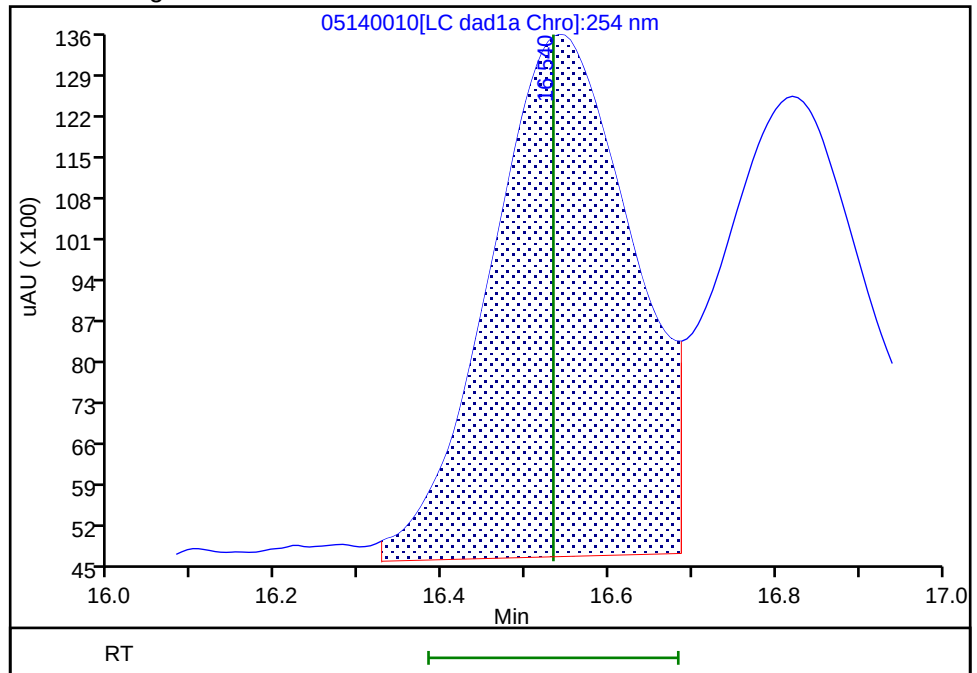
RT: 16.54
Area: 63784
Amount: 0.238403
Amount Units: ug/ml

Processing Integration Results



RT: 16.54
Area: 105493
Amount: 0.386471
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:20:32
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

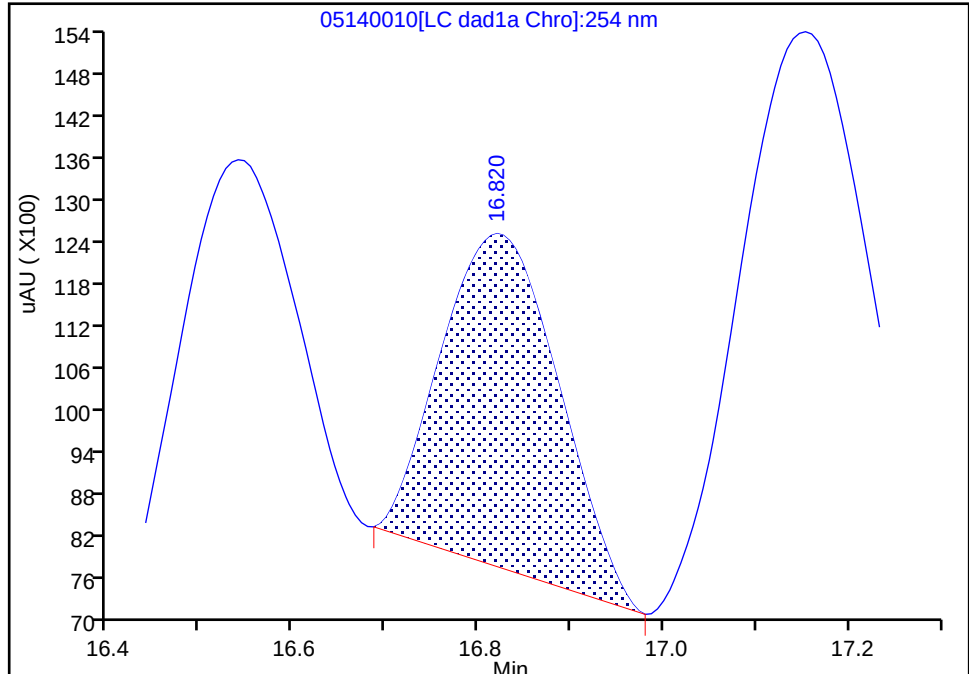
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d
Injection Date: 14-May-2020 18:01:41 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 6
Client ID:
Operator ID: CB ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

15 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

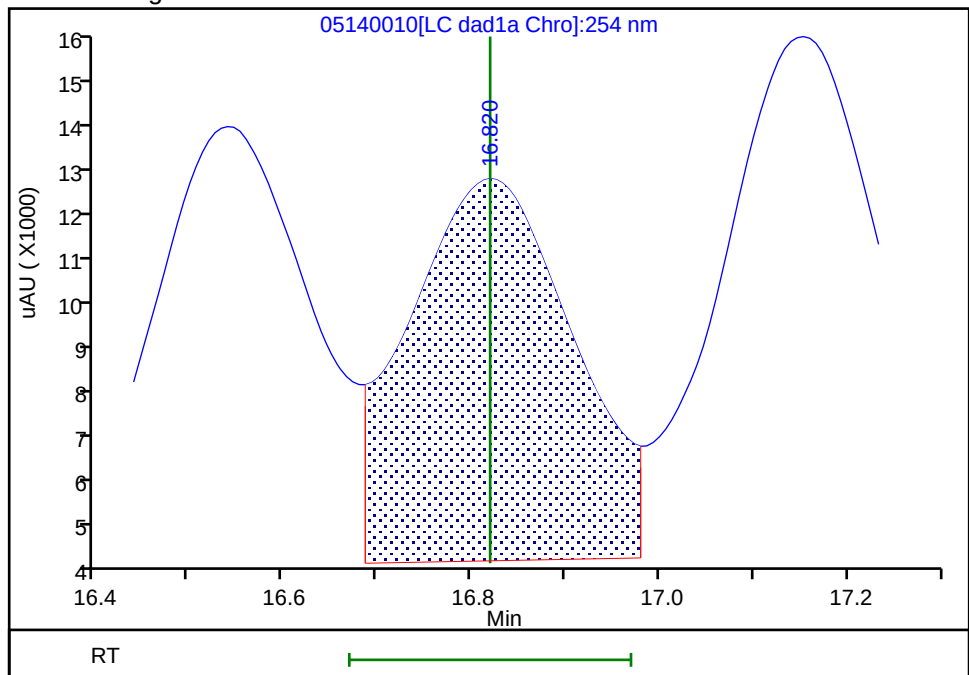
RT: 16.82
Area: 42038
Amount: 0.176152
Amount Units: ug/ml

Processing Integration Results



RT: 16.82
Area: 93773
Amount: 0.389291
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:20:32
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

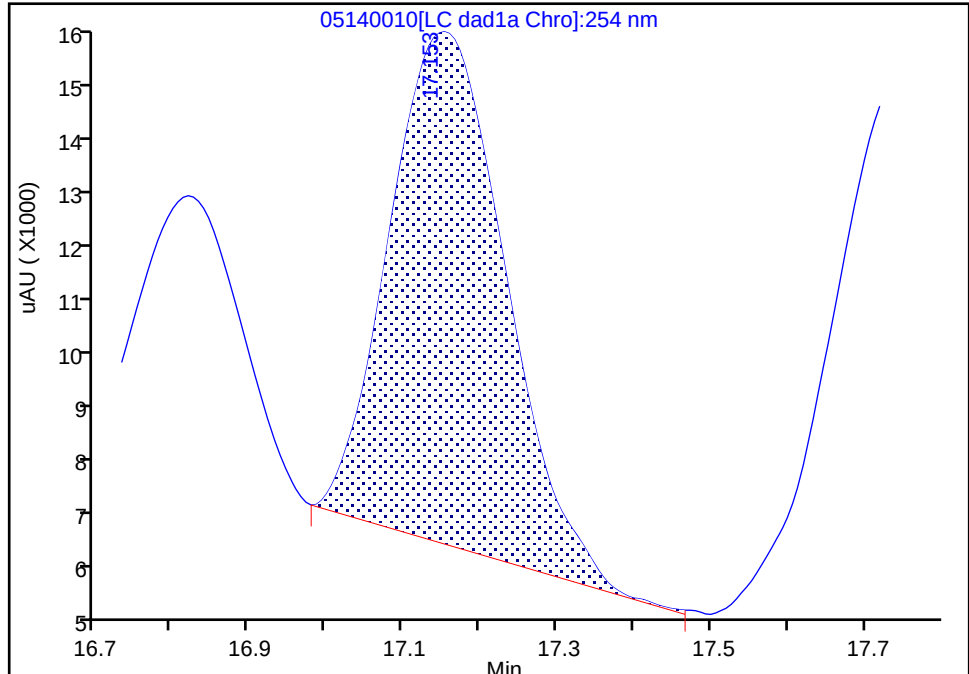
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d
Injection Date: 14-May-2020 18:01:41 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 6
Client ID:
Operator ID: CB ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

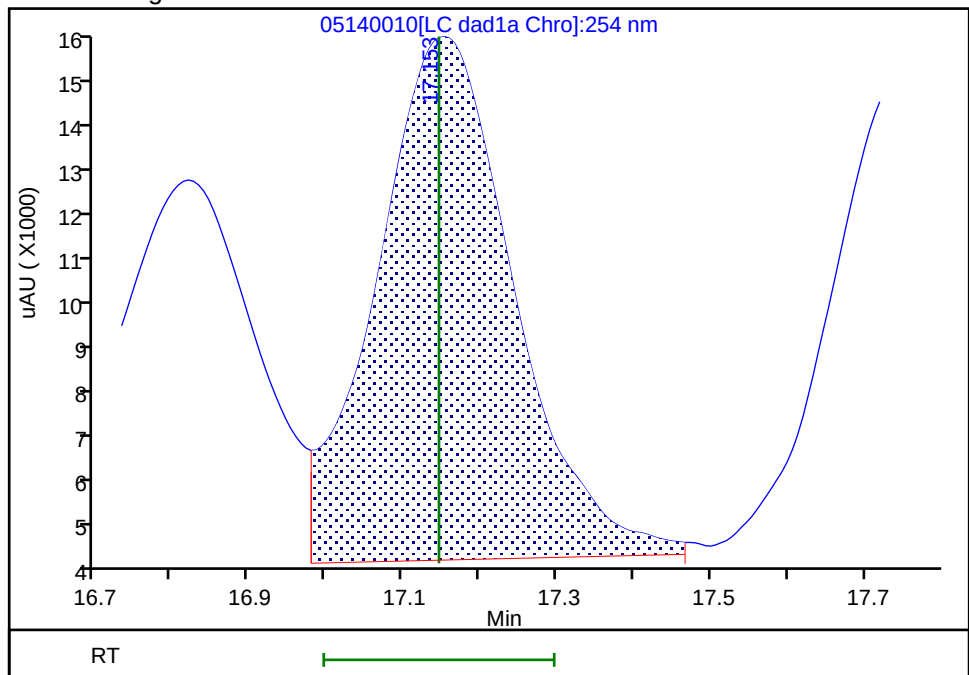
RT: 17.15
Area: 95002
Amount: 0.278639
Amount Units: ug/ml

Processing Integration Results



RT: 17.15
Area: 130436
Amount: 0.377818
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:20:32
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

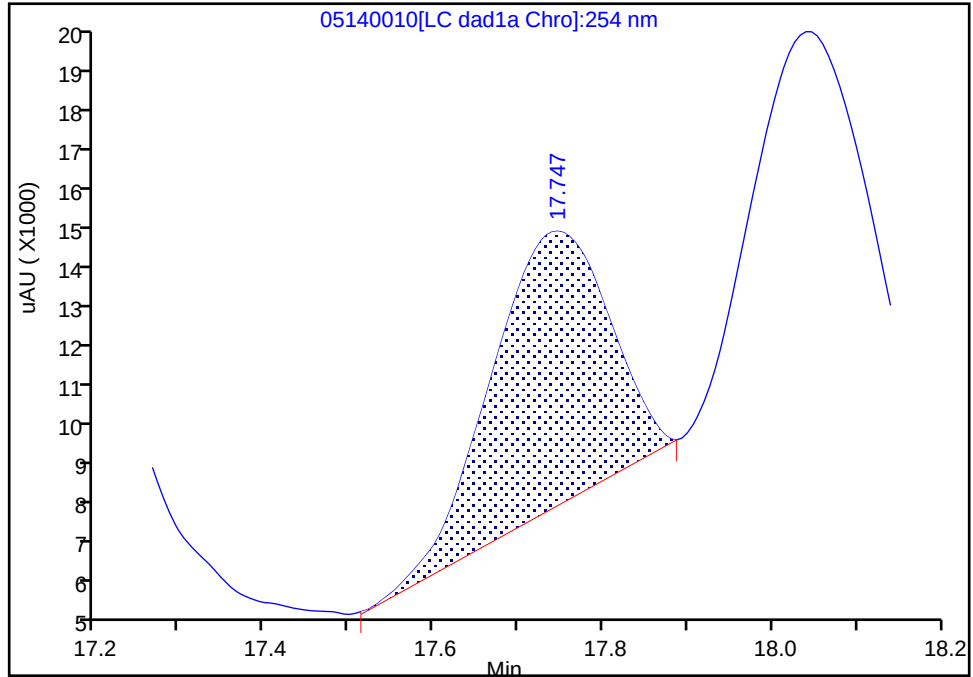
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d
Injection Date: 14-May-2020 18:01:41 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 6
Client ID:
Operator ID: CB ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

17 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

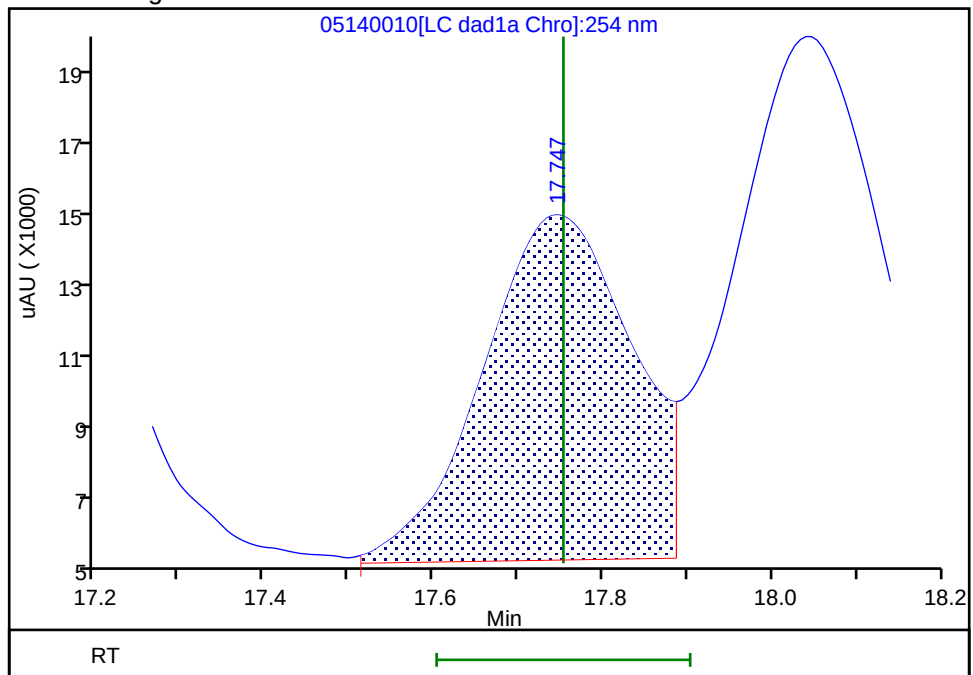
RT: 17.75
Area: 65895
Amount: 0.232967
Amount Units: ug/ml

Processing Integration Results



RT: 17.75
Area: 115331
Amount: 0.386593
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:20:32
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

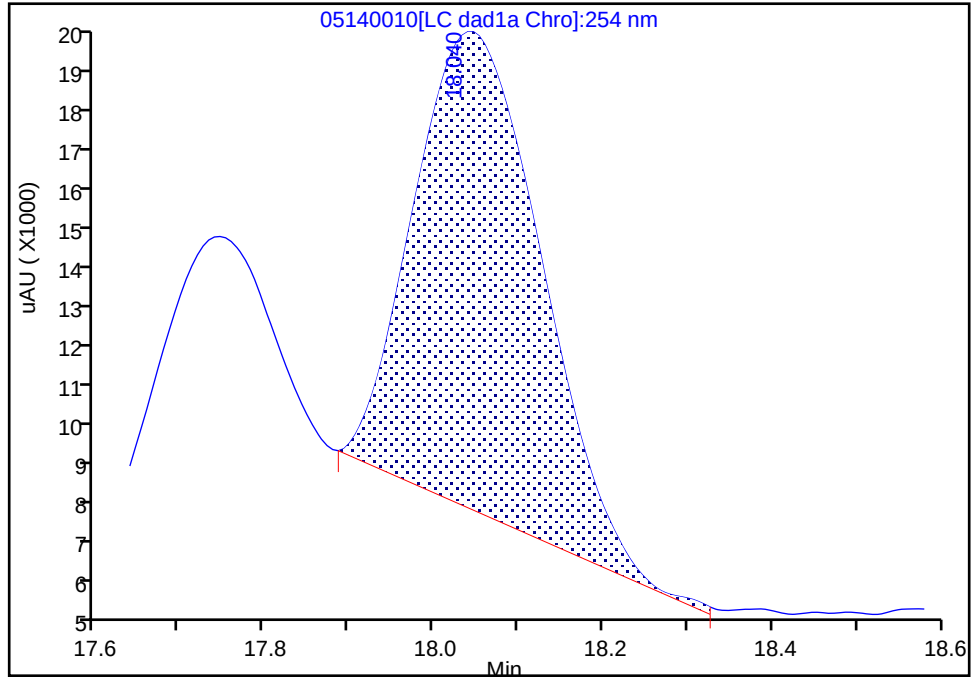
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d
Injection Date: 14-May-2020 18:01:41 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 6
Client ID:
Operator ID: CB ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

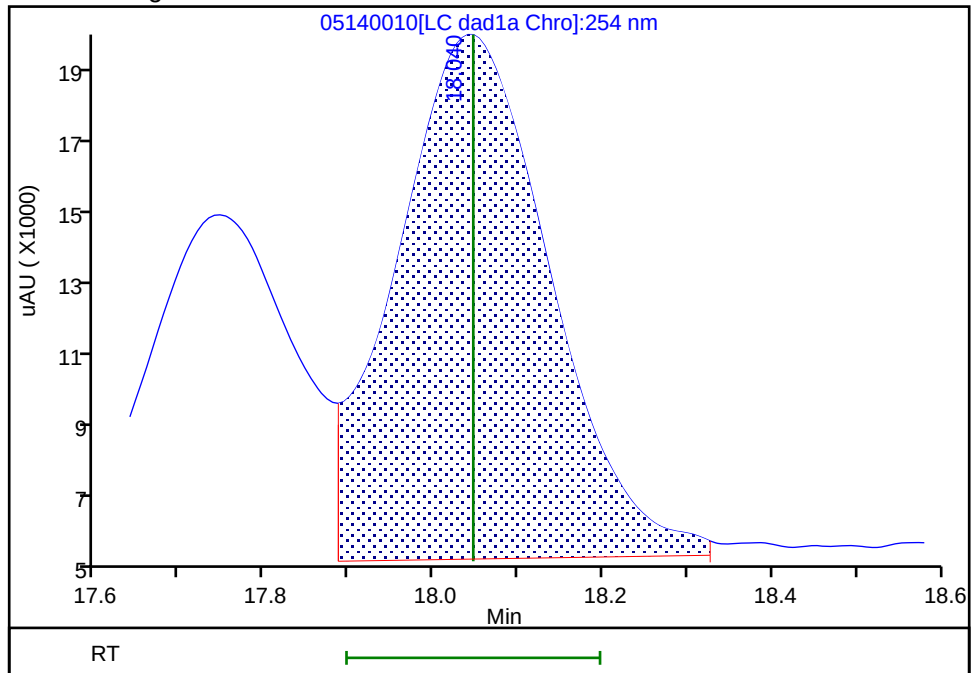
RT: 18.04
Area: 120261
Amount: 0.277181
Amount Units: ug/ml

Processing Integration Results



RT: 18.04
Area: 179358
Amount: 0.385541
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:20:32
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

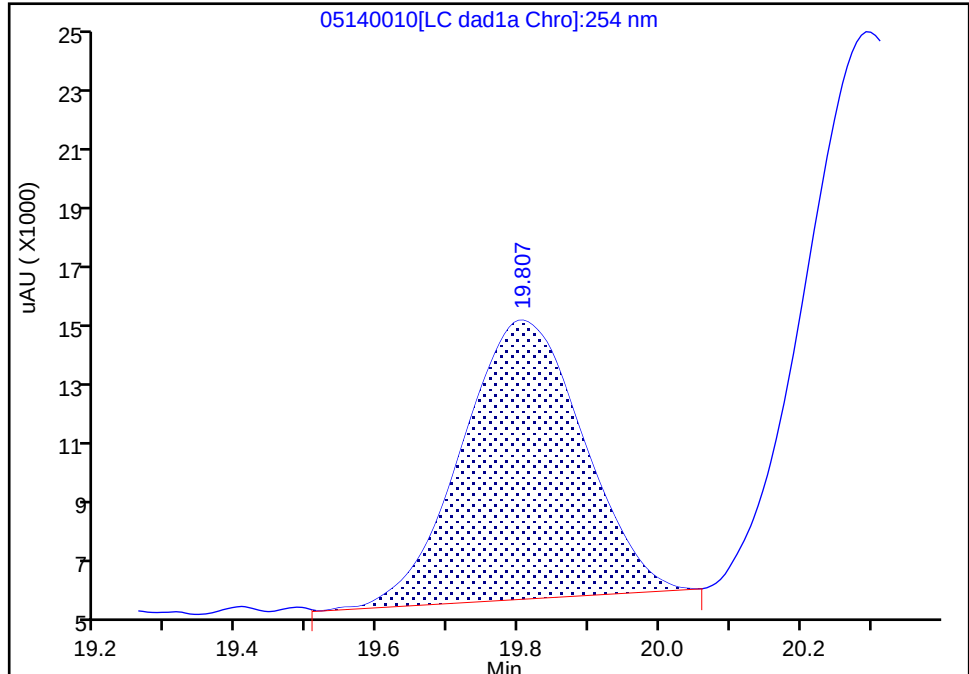
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d
Injection Date: 14-May-2020 18:01:41 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 6
Client ID:
Operator ID: CB ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

20 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

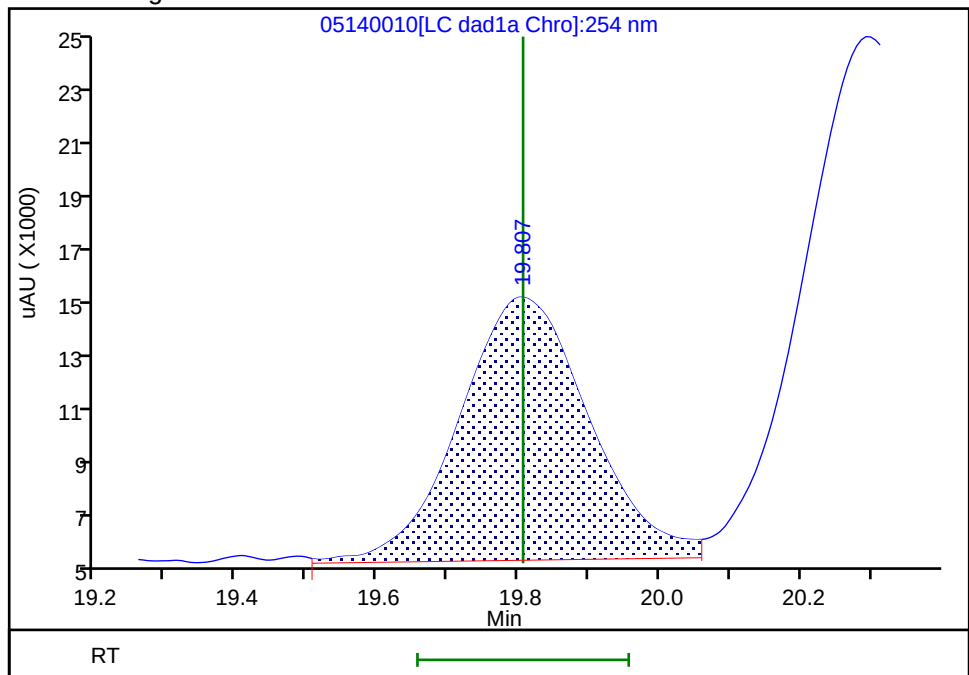
RT: 19.81
Area: 105710
Amount: 0.311662
Amount Units: ug/ml

Processing Integration Results



RT: 19.81
Area: 118093
Amount: 0.392980
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:20:40
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

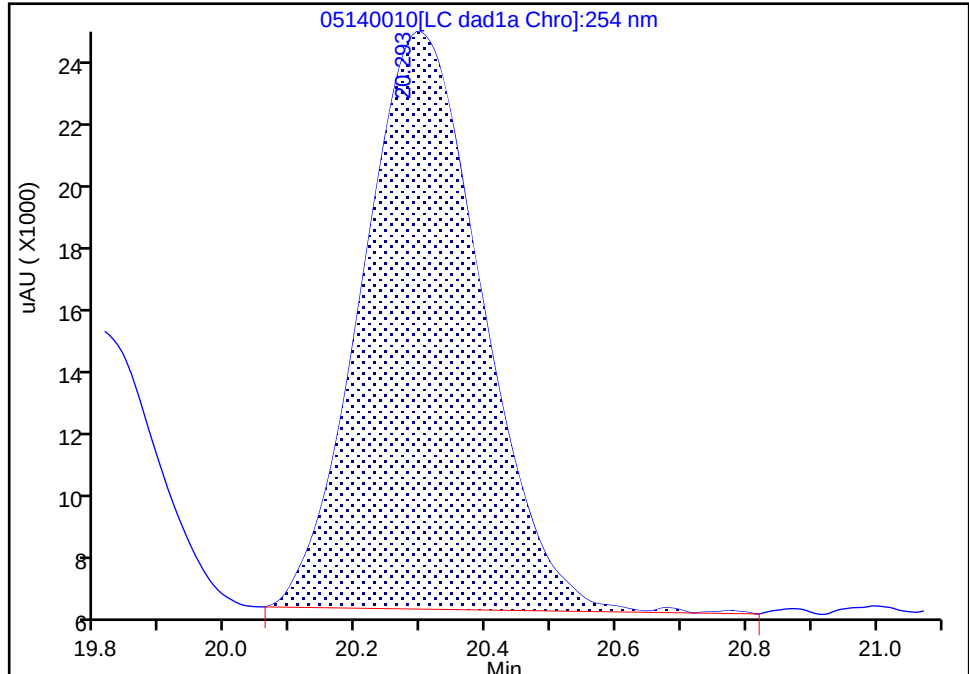
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d
Injection Date: 14-May-2020 18:01:41 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 6
Client ID:
Operator ID: CB ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

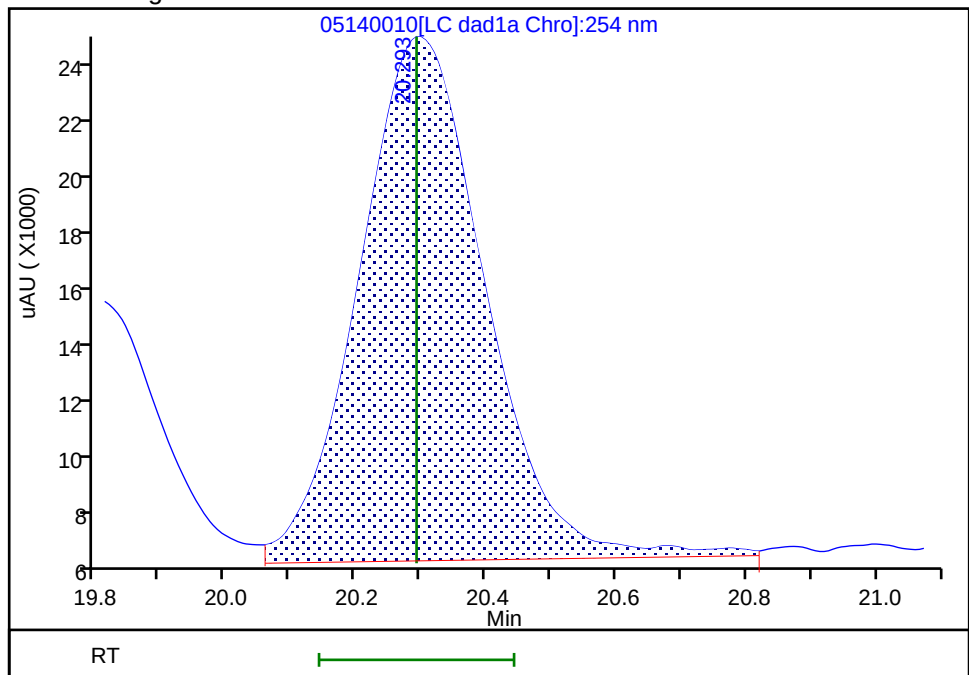
RT: 20.29
Area: 226951
Amount: 0.348081
Amount Units: ug/ml

Processing Integration Results



RT: 20.29
Area: 245009
Amount: 0.382759
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:20:40
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

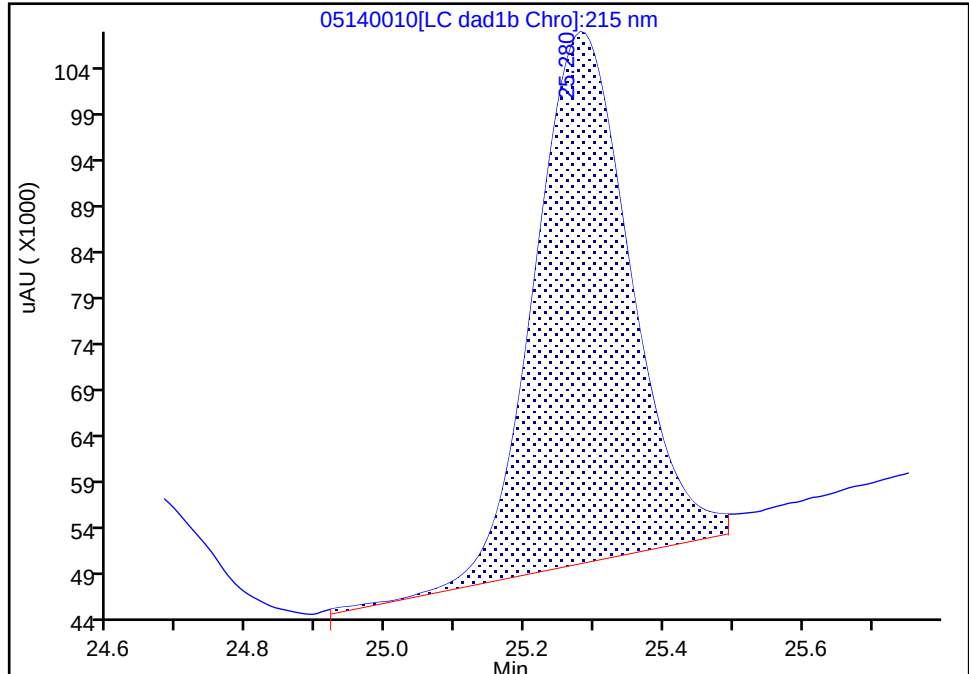
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d
Injection Date: 14-May-2020 18:01:41 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 6
Client ID:
Operator ID: CB ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Detector LC DAD1B, 215 nm

24 PETN, CAS: 78-11-5

Signal: 1

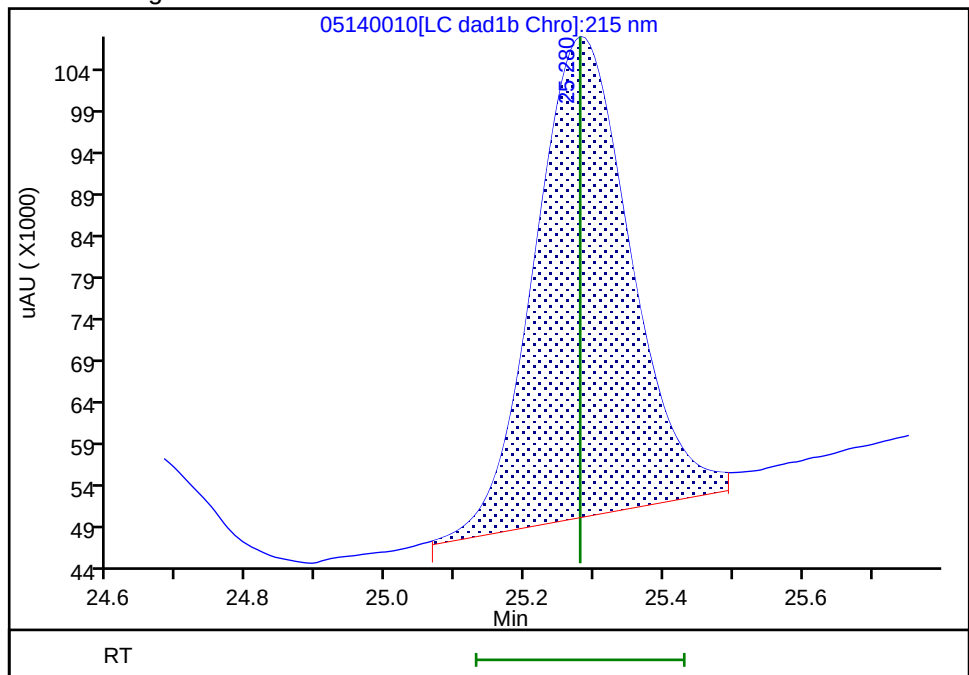
RT: 25.28
Area: 559852
Amount: 4.200524
Amount Units: ug/ml

Processing Integration Results



RT: 25.28
Area: 557734
Amount: 4.102237
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:25:18
Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140011.D
 Lims ID: IC FULL 5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 14-May-2020 18:36:40 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC FULL 5
 Misc. Info.: 280-0091518-011
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub6
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 15-May-2020 12:00:56 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0318

First Level Reviewer: zhangji

Date: 15-May-2020 11:20:54

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	4.366	4.366	0.000	106754	0.2500	0.2487	
2 2,4-diamino-6-nitrotoluene	1	4.880	4.880	0.000	74938	0.2500	0.2919	
5 2,4,6-Trinitrophenol	1	6.300	6.300	0.000	48614	0.2500	0.2508	a
6 HMX	1	6.986	6.986	0.000	54065	0.2500	0.2754	
8 RDX	1	9.173	9.173	0.000	62626	0.2500	0.2563	
9 Nitrobenzene	1	12.106	12.106	0.000	106064	0.2510	0.2415	
\$ 10 1,2-Dinitrobenzene	1	13.040	13.040	0.000	62375	0.2500	0.2184	M
11 3,5-Dinitroaniline	1	14.886	14.886	0.000	130301	0.2500	0.2629	
12 1,3-Dinitrobenzene	1	15.553	15.553	0.000	172289	0.2505	0.2556	
13 Nitroglycerin	2	15.853	15.853	0.000	330378	2.50	2.61	M
14 o-Nitrotoluene	1	16.533	16.533	0.000	63146	0.2500	0.2313	
15 p-Nitrotoluene	1	16.820	16.820	0.000	59605	0.2505	0.2474	
16 4-Amino-2,6-dinitrotoluene	1	17.146	17.146	0.000	79168	0.2503	0.2293	
17 m-Nitrotoluene	1	17.753	17.753	0.000	71162	0.2503	0.2385	
18 2-Amino-4,6-dinitrotoluene	1	18.046	18.046	0.000	112860	0.2510	0.2426	
19 1,3,5-Trinitrobenzene	1	18.886	18.886	0.000	118709	0.2505	0.2513	
20 2,6-Dinitrotoluene	1	19.806	19.806	0.000	74317	0.2510	0.2416	
21 2,4-Dinitrotoluene	1	20.293	20.293	0.000	153249	0.2510	0.2394	
22 Tetryl	1	23.553	23.553	0.000	92236	0.2505	0.2502	
23 2,4,6-Trinitrotoluene	1	24.653	24.653	0.000	100168	0.2510	0.2416	
24 PETN	2	25.280	25.280	0.000	338241	2.50	2.40	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8330IntermStk_00064

Amount Added: 25.00

Units: uL

8330_ADDs_00026

Amount Added: 12.50

Units: uL

Report Date: 15-May-2020 12:00:57

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140011.d

Injection Date: 14-May-2020 18:36:40

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC FULL 5

Worklist Smp#: 11

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

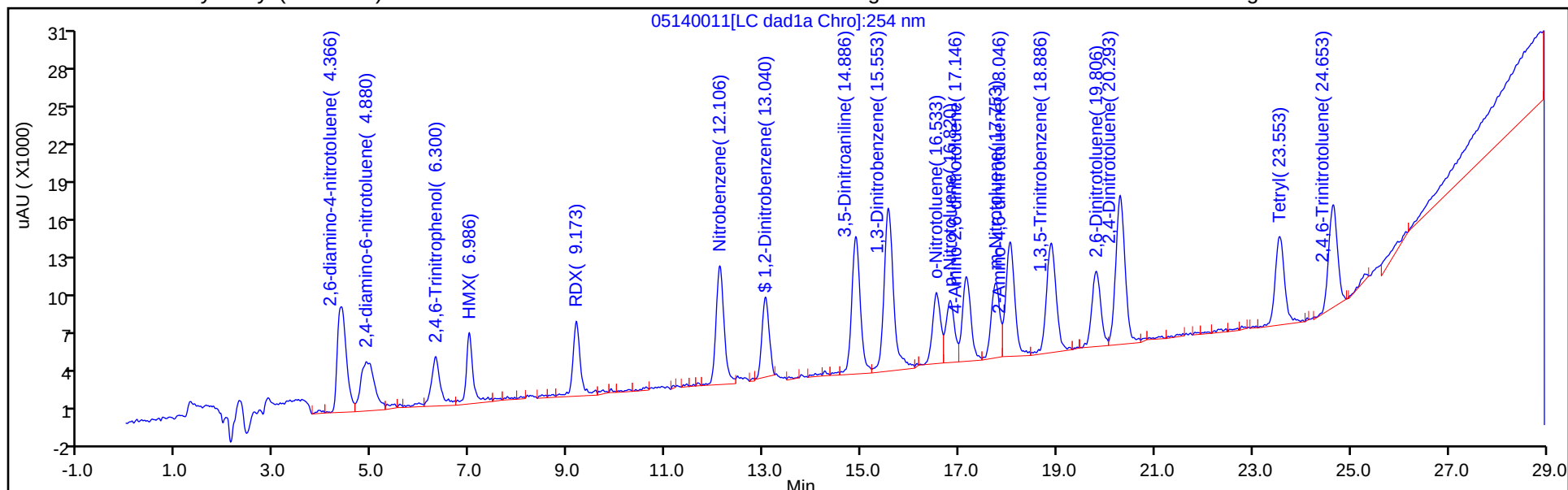
ALS Bottle#: 11

Method: G2_8330_Luna

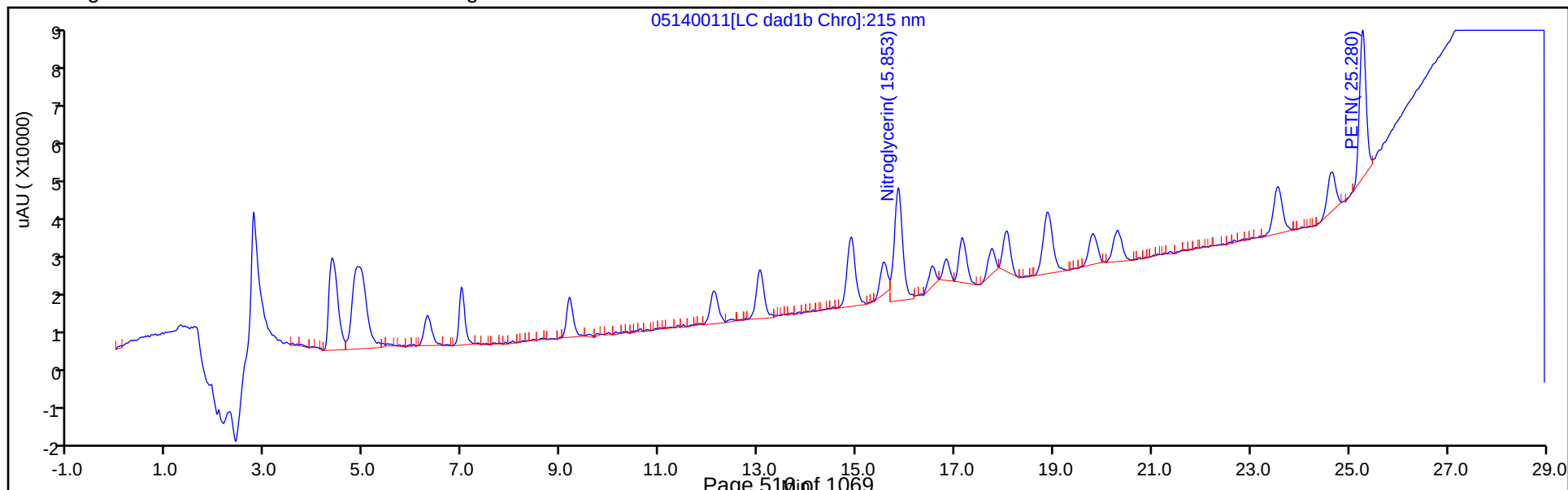
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver

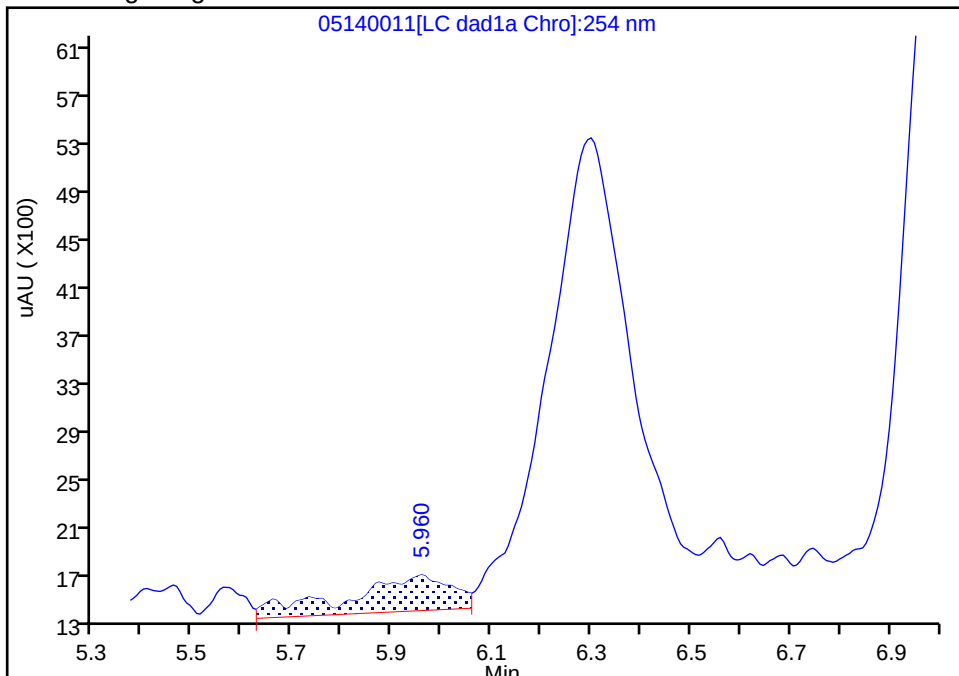
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140011.d
Injection Date: 14-May-2020 18:36:40 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 5
Client ID:
Operator ID: CB ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

5 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

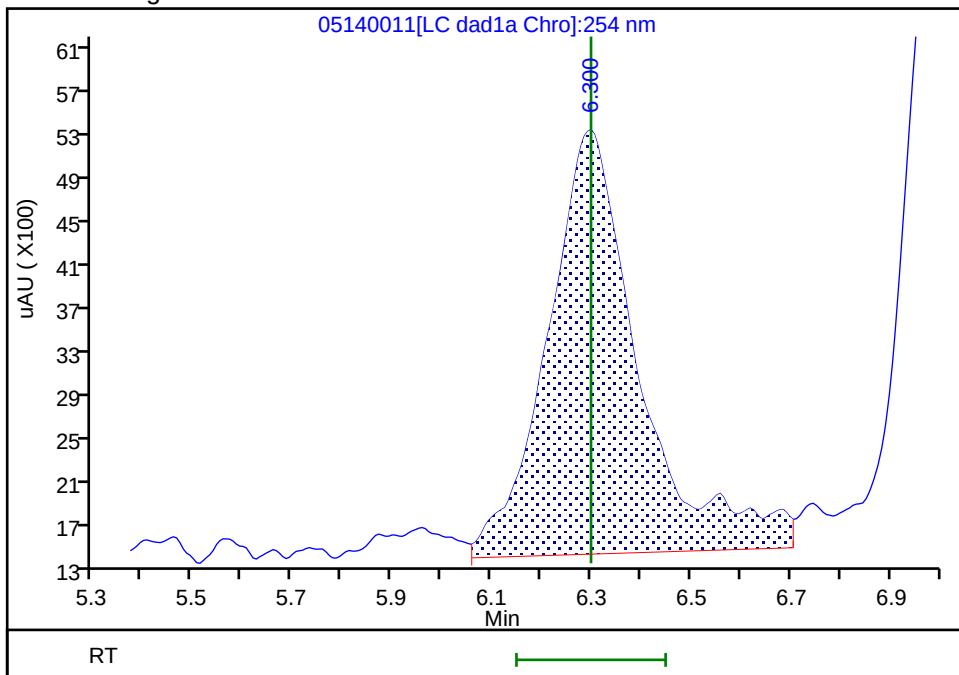
RT: 5.96
Area: 4251
Amount: 0.036696
Amount Units: ug/ml

Processing Integration Results



RT: 6.30
Area: 48614
Amount: 0.250833
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:20:52
Audit Action: Assigned Compound ID

Audit Reason:
Page 517 of 1069

Eurofins TestAmerica, Denver

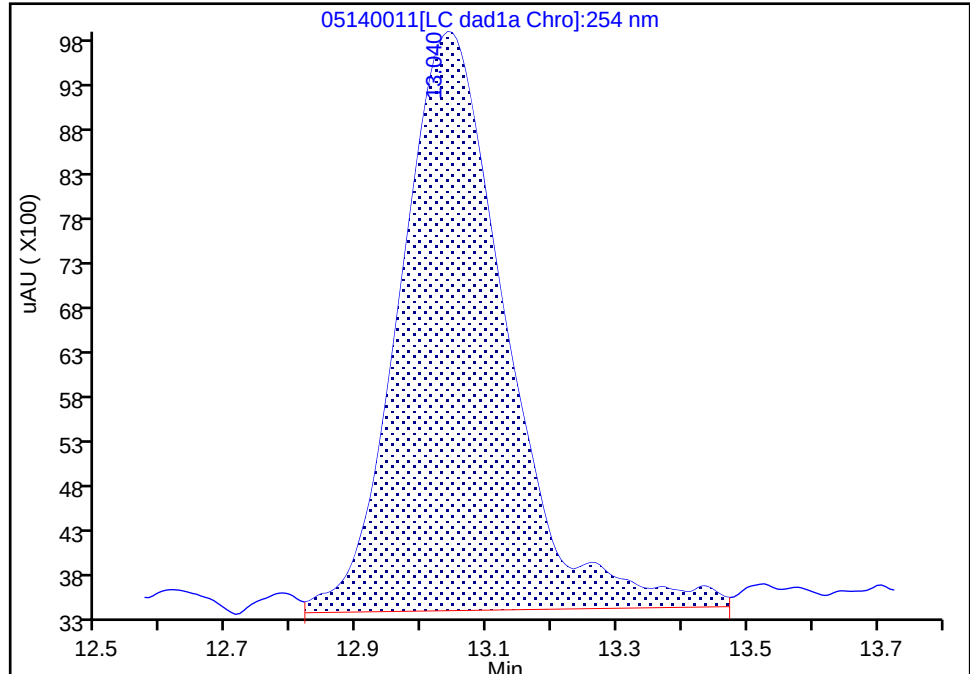
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140011.d
Injection Date: 14-May-2020 18:36:40 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 5
Client ID:
Operator ID: CB ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

\$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

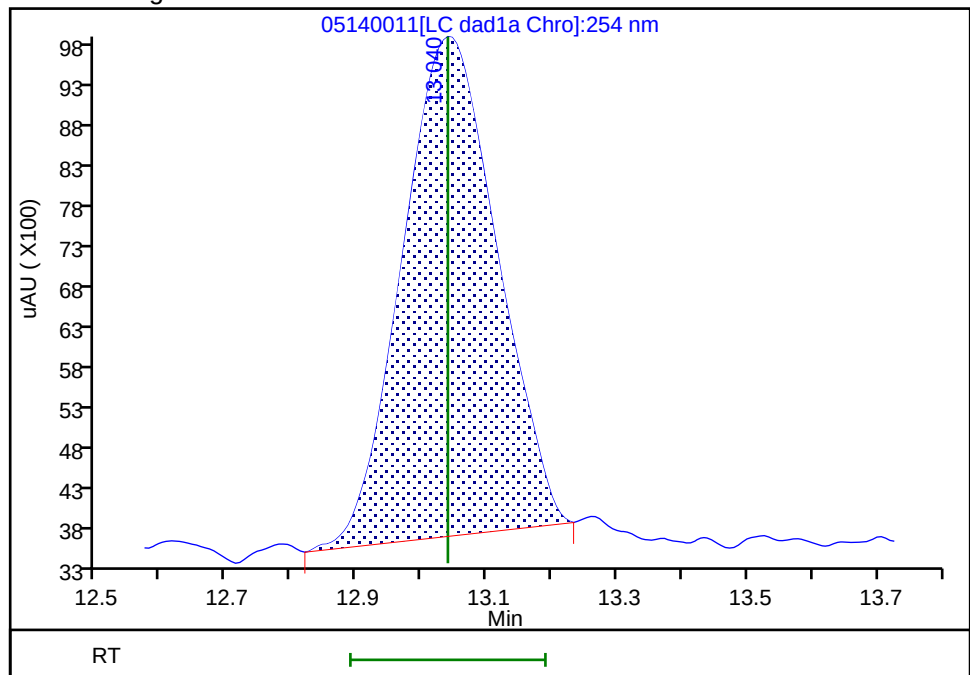
RT: 13.04
Area: 73345
Amount: 0.234804
Amount Units: ug/ml

Processing Integration Results



RT: 13.04
Area: 62375
Amount: 0.218362
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:35:01
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

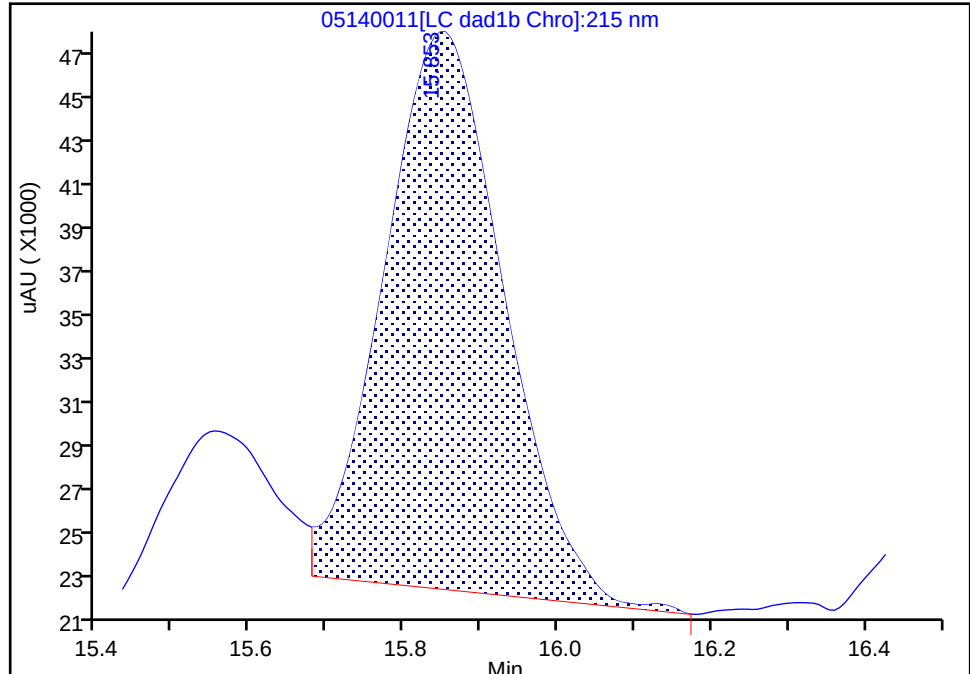
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140011.d
Injection Date: 14-May-2020 18:36:40 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 5
Client ID:
Operator ID: CB ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Detector LC DAD1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

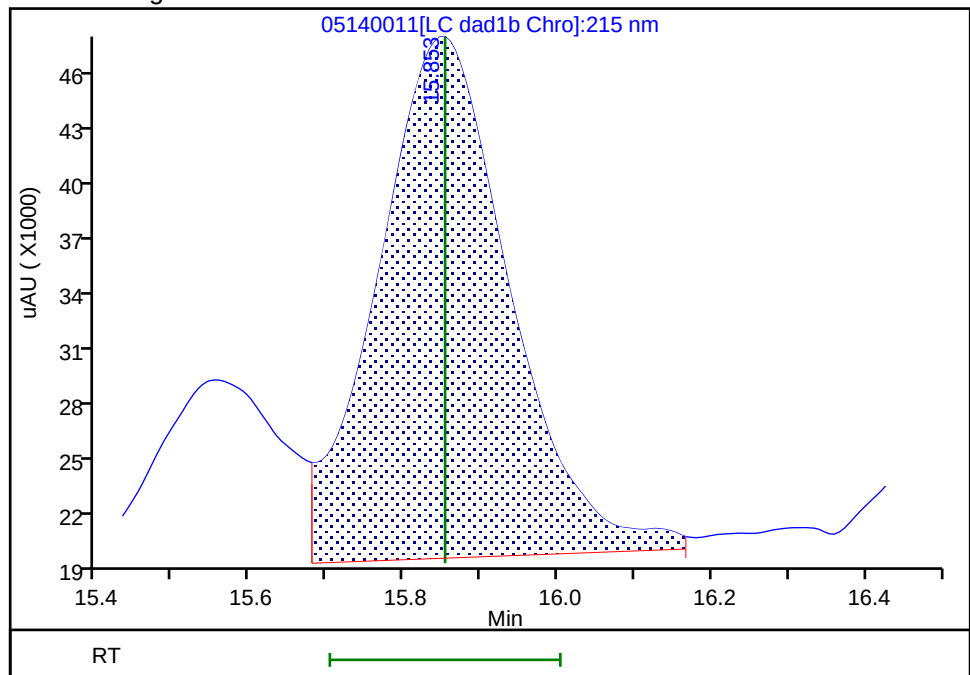
RT: 15.85
Area: 276053
Amount: 2.464482
Amount Units: ug/ml

Processing Integration Results



RT: 15.85
Area: 330378
Amount: 2.605436
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:32:11
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

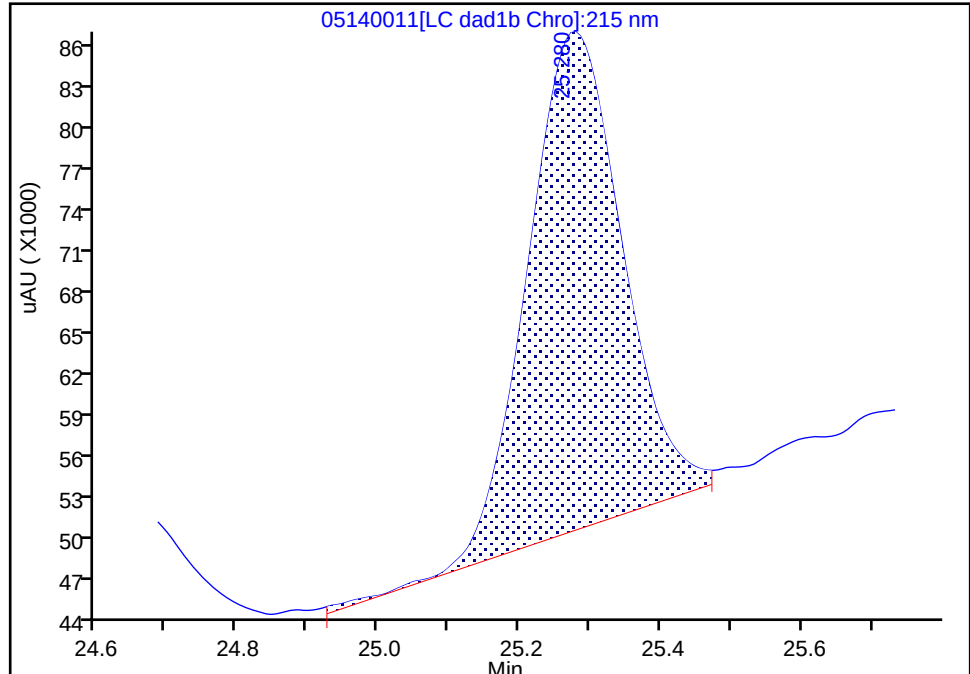
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140011.d
Injection Date: 14-May-2020 18:36:40 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 5
Client ID:
Operator ID: CB ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Detector LC DAD1B, 215 nm

24 PETN, CAS: 78-11-5

Signal: 1

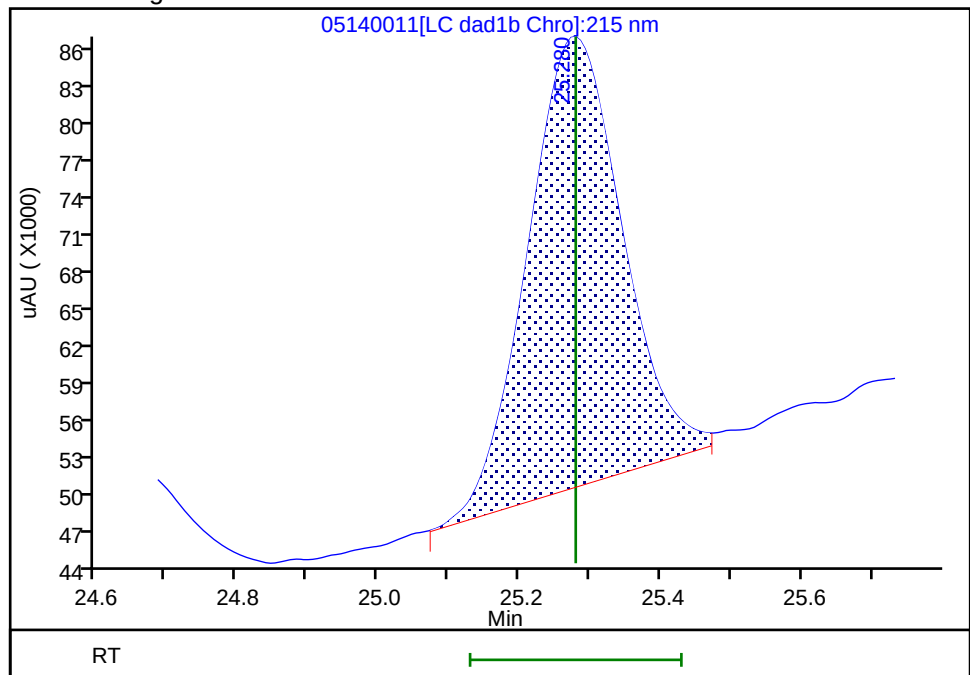
RT: 25.28
Area: 339815
Amount: 2.534573
Amount Units: ug/ml

Processing Integration Results



RT: 25.28
Area: 338241
Amount: 2.404524
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:25:08

Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140012.D
 Lims ID: IC FULL 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 14-May-2020 19:11:37 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC FULL 4
 Misc. Info.: 280-0091518-012
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub6
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 15-May-2020 12:00:57 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0318

First Level Reviewer: zhangji

Date: 15-May-2020 11:21:52

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	4.361	4.366	-0.005	44739	0.1000	0.1042	
2 2,4-diamino-6-nitrotoluene	1	4.941	4.880	0.061	33889	0.1000	0.1193	
5 2,4,6-Trinitrophenol	1	6.308	6.300	0.008	23170	0.1000	0.1195	a
6 HMX	1	6.994	6.986	0.008	24294	0.1000	0.1072	
8 RDX	1	9.181	9.173	0.008	27233	0.1000	0.1114	
9 Nitrobenzene	1	12.114	12.106	0.008	42679	0.1004	0.0972	
\$ 10 1,2-Dinitrobenzene	1	13.048	13.040	0.008	30683	0.1000	0.1040	
11 3,5-Dinitroaniline	1	14.901	14.886	0.015	51716	0.1000	0.1009	M
12 1,3-Dinitrobenzene	1	15.554	15.553	0.001	69012	0.1002	0.1024	M
13 Nitroglycerin	2	15.848	15.853	-0.005	141489	1.00	1.12	M
14 o-Nitrotoluene	1	16.534	16.533	0.001	29062	0.1000	0.1065	M
15 p-Nitrotoluene	1	16.828	16.820	0.008	25956	0.1002	0.1078	M
16 4-Amino-2,6-dinitrotoluene	1	17.148	17.146	0.002	32448	0.1001	0.0940	M
17 m-Nitrotoluene	1	17.741	17.753	-0.012	30586	0.1001	0.1025	M
18 2-Amino-4,6-dinitrotoluene	1	18.054	18.046	0.008	47526	0.1004	0.1022	M
19 1,3,5-Trinitrobenzene	1	18.881	18.886	-0.005	51028	0.1002	0.1080	M
20 2,6-Dinitrotoluene	1	19.794	19.806	-0.012	34659	0.1004	0.1045	M
21 2,4-Dinitrotoluene	1	20.288	20.293	-0.005	67500	0.1004	0.1055	M
22 Tetryl	1	23.548	23.553	-0.005	38547	0.1002	0.1046	
23 2,4,6-Trinitrotoluene	1	24.654	24.653	0.001	43208	0.1004	0.0997	
24 PETN	2	25.281	25.280	0.001	132172	1.00	0.8106	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8330IntermStk_00064

Amount Added: 10.00

Units: uL

8330_ADDs_00026

Amount Added: 5.00

Units: uL

Report Date: 15-May-2020 12:00:57

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d

Injection Date: 14-May-2020 19:11:37

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC FULL 4

Worklist Smp#: 12

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

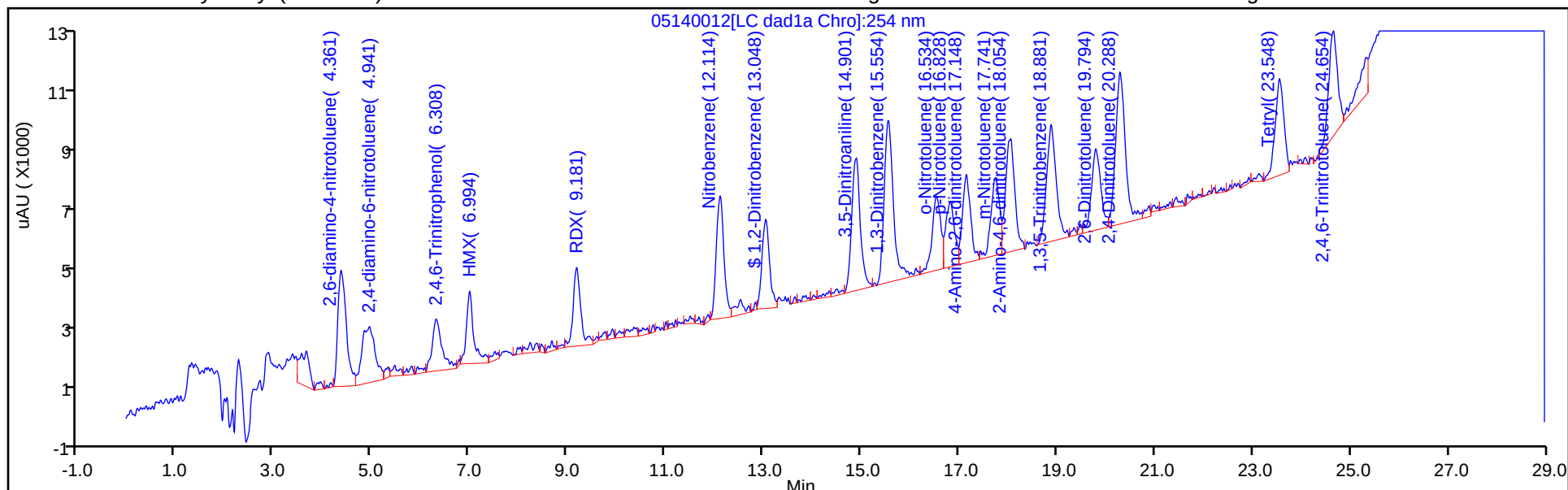
ALS Bottle#: 12

Method: G2_8330_Luna

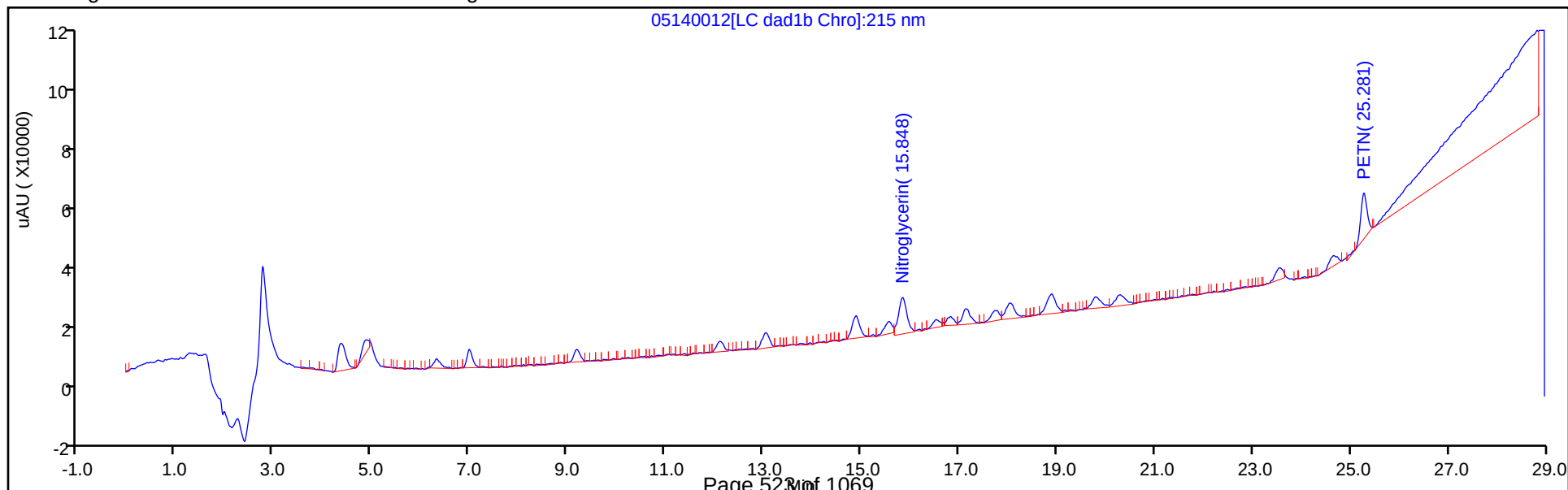
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver

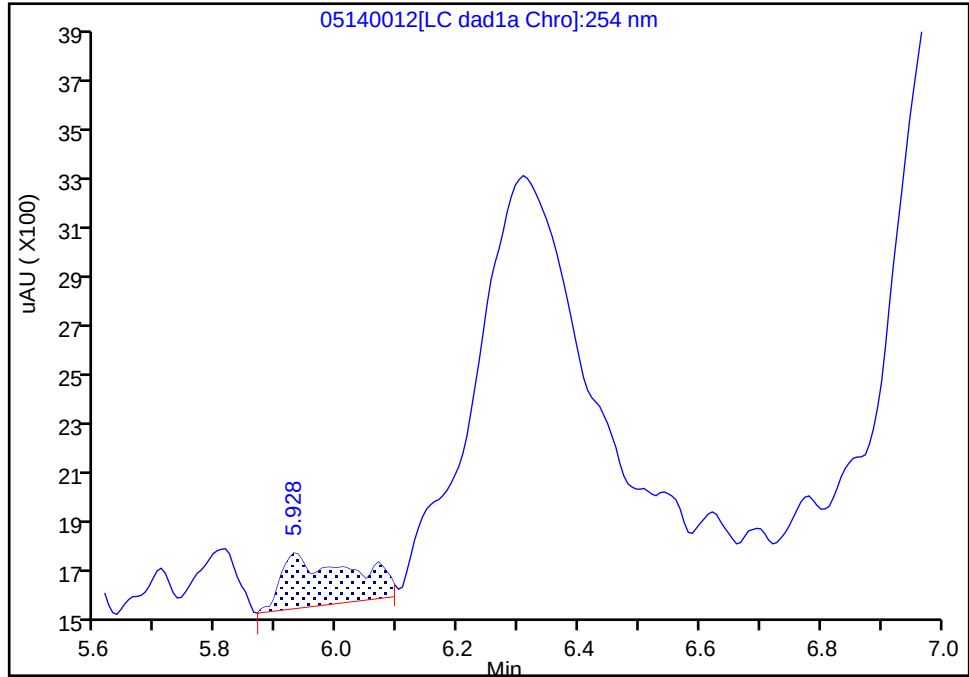
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d
Injection Date: 14-May-2020 19:11:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 4
Client ID:
Operator ID: CB ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

5 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

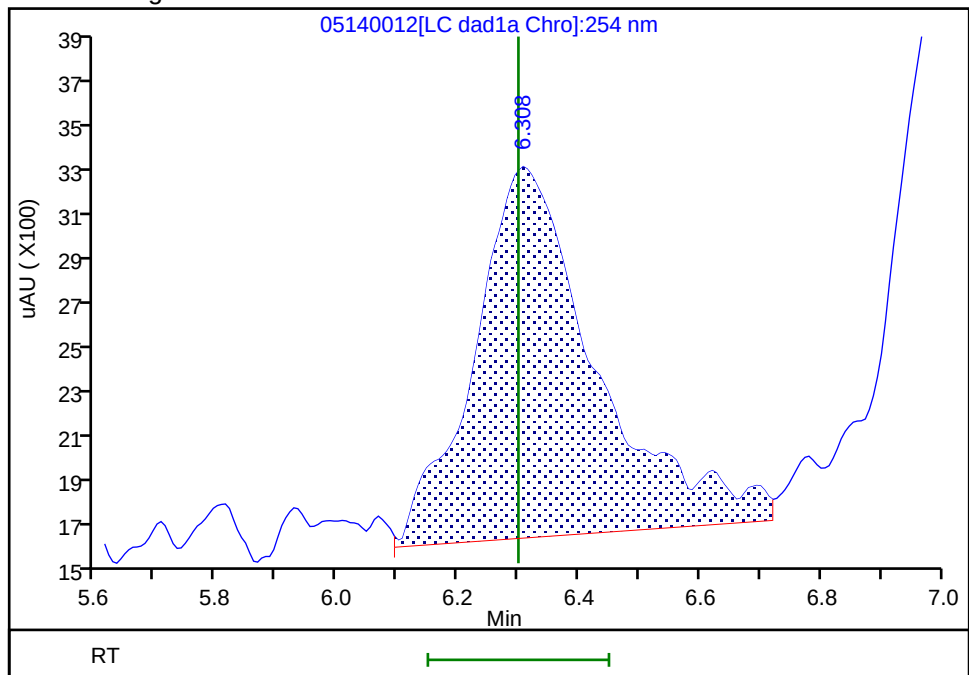
RT: 5.93
Area: 1700
Amount: 0.010784
Amount Units: ug/ml

Processing Integration Results



RT: 6.31
Area: 23170
Amount: 0.119550
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:22:21
Audit Action: Assigned Compound ID

Audit Reason:

Eurofins TestAmerica, Denver

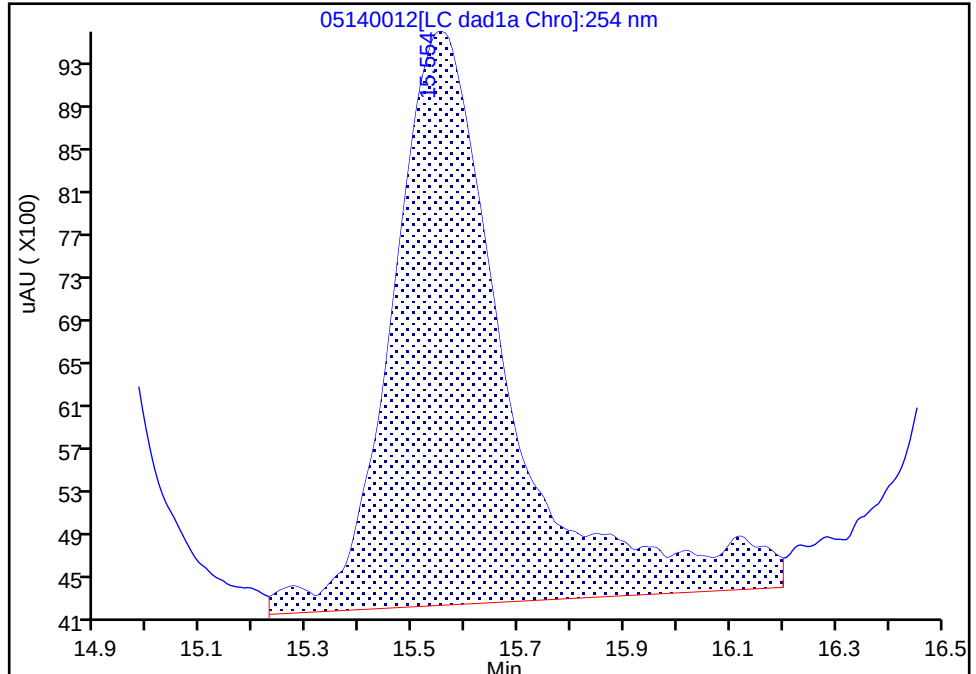
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d
Injection Date: 14-May-2020 19:11:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 4
Client ID:
Operator ID: CB ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

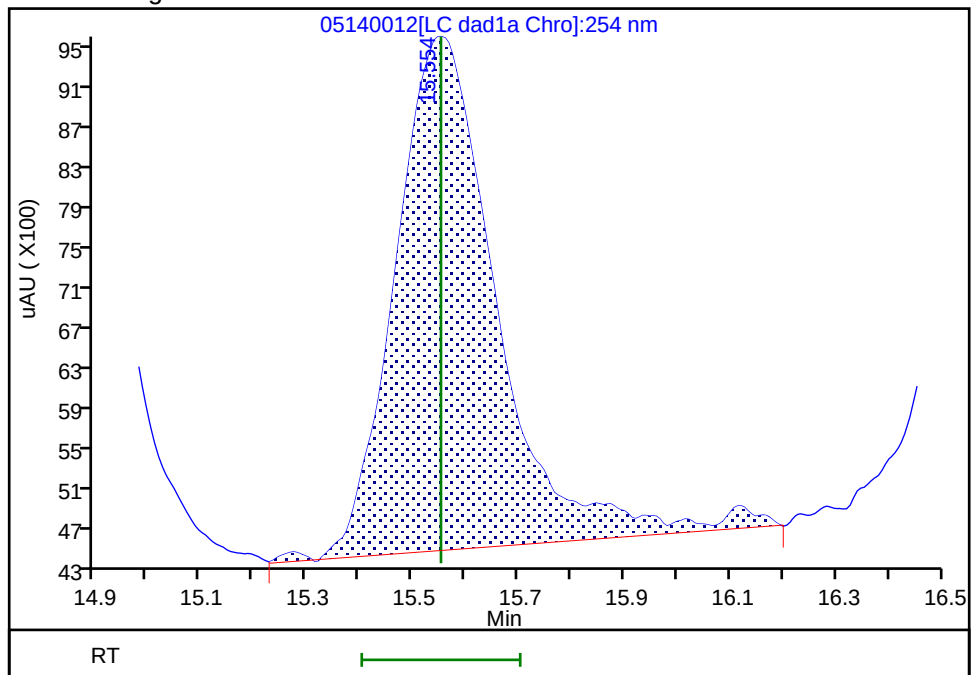
RT: 15.55
Area: 81626
Amount: 0.119366
Amount Units: ug/ml

Processing Integration Results



RT: 15.55
Area: 69012
Amount: 0.102363
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:21:48

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

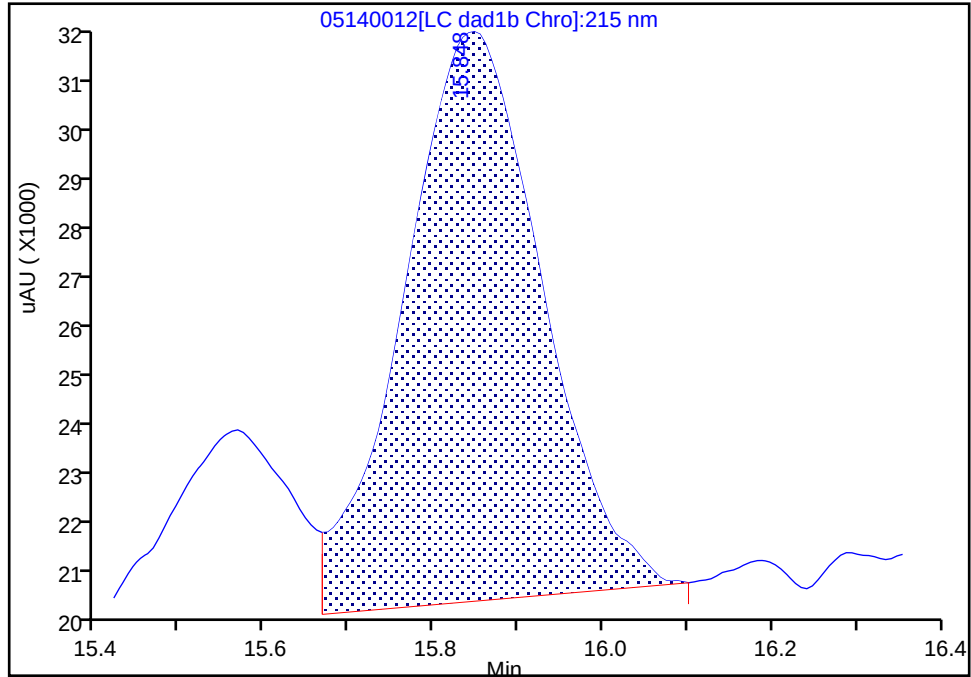
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d
Injection Date: 14-May-2020 19:11:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 4
Client ID:
Operator ID: CB ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Detector LC DAD1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

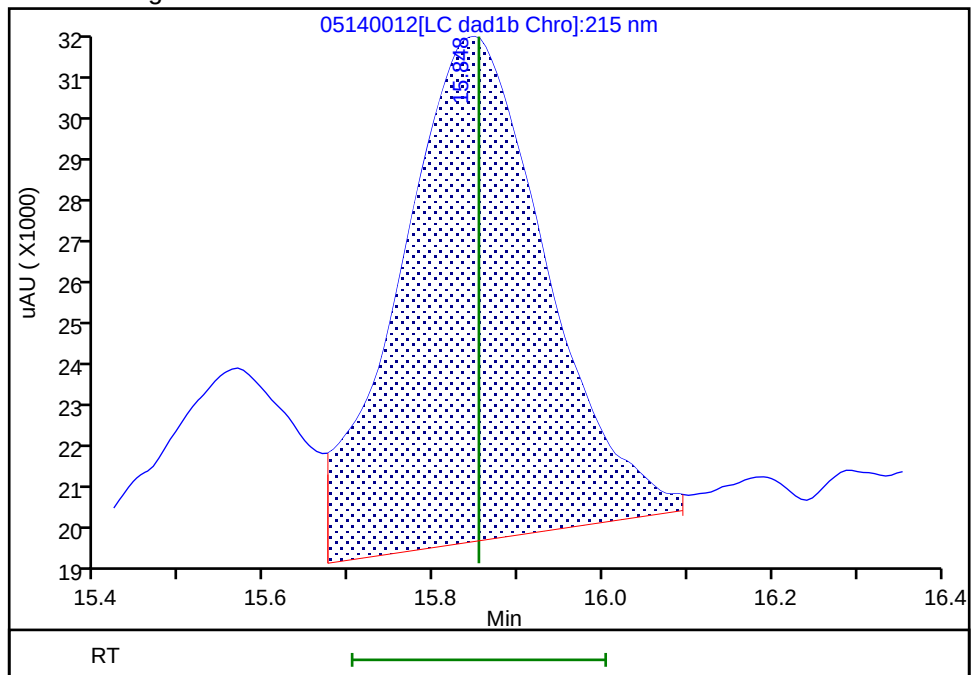
RT: 15.85
Area: 125471
Amount: 1.093631
Amount Units: ug/ml

Processing Integration Results



RT: 15.85
Area: 141489
Amount: 1.115815
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:32:25
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

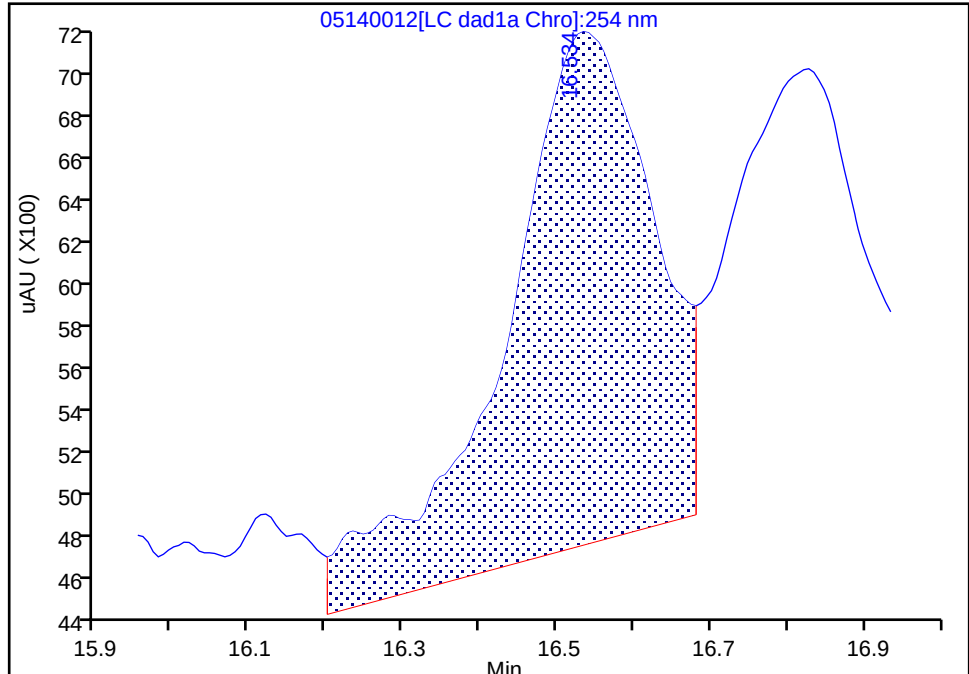
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d
Injection Date: 14-May-2020 19:11:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 4
Client ID:
Operator ID: CB ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

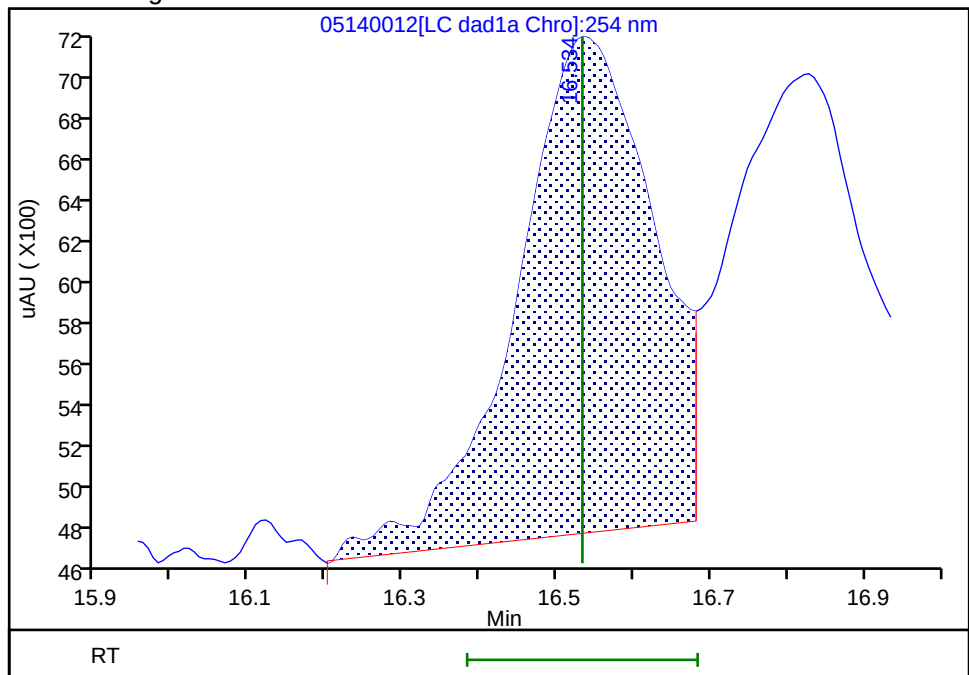
RT: 16.53
Area: 33080
Amount: 0.118510
Amount Units: ug/ml

Processing Integration Results



RT: 16.53
Area: 29062
Amount: 0.106468
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:21:48
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

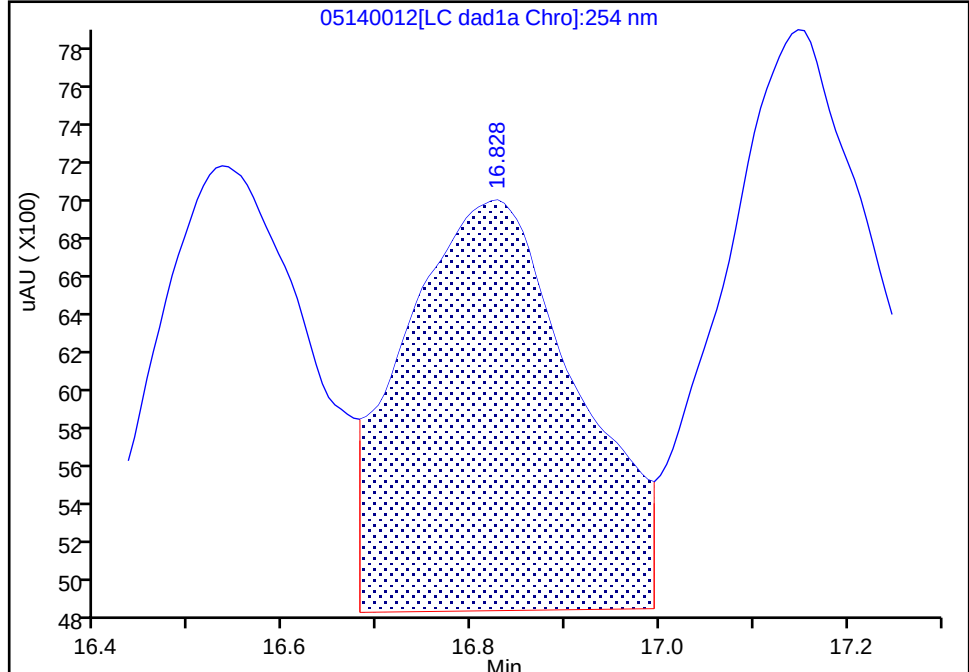
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d
Injection Date: 14-May-2020 19:11:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 4
Client ID:
Operator ID: CB ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

15 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

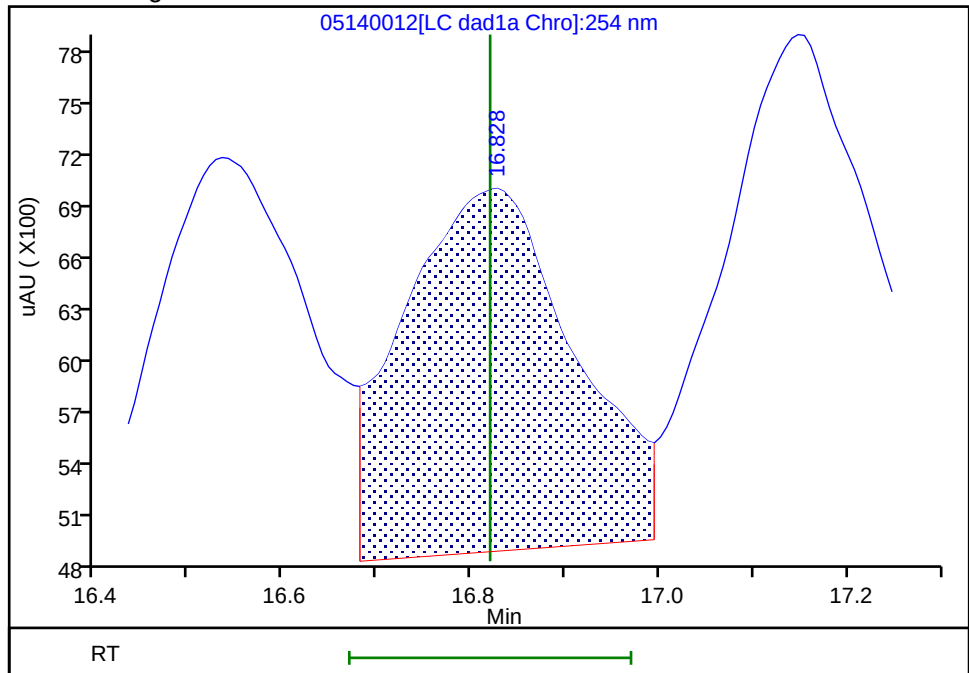
RT: 16.83
Area: 26887
Amount: 0.106277
Amount Units: ug/ml

Processing Integration Results



RT: 16.83
Area: 25956
Amount: 0.107754
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:21:48
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

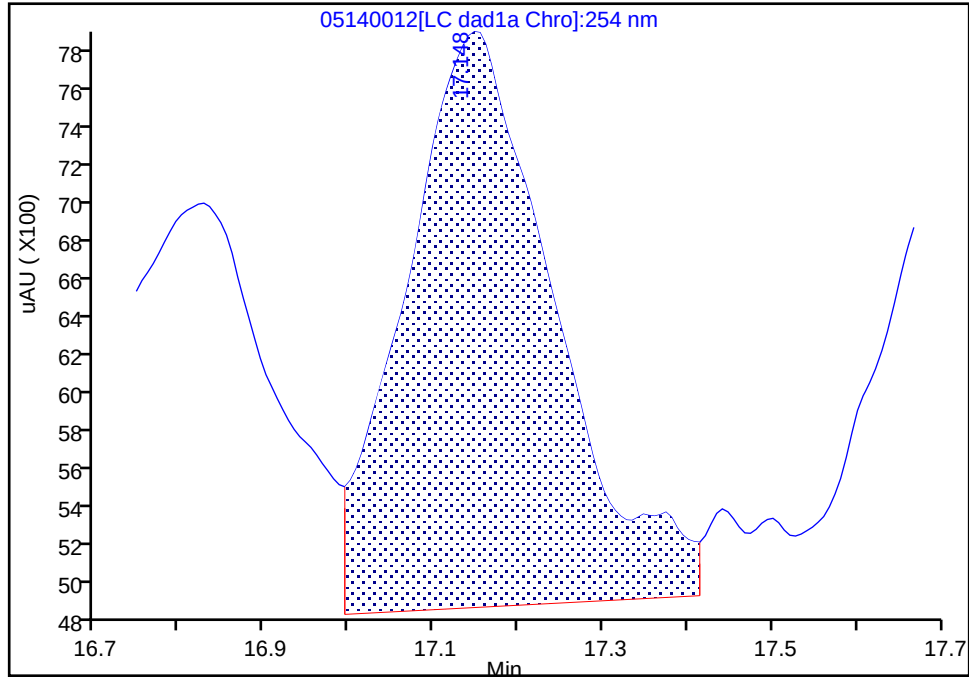
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d
Injection Date: 14-May-2020 19:11:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 4
Client ID:
Operator ID: CB ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

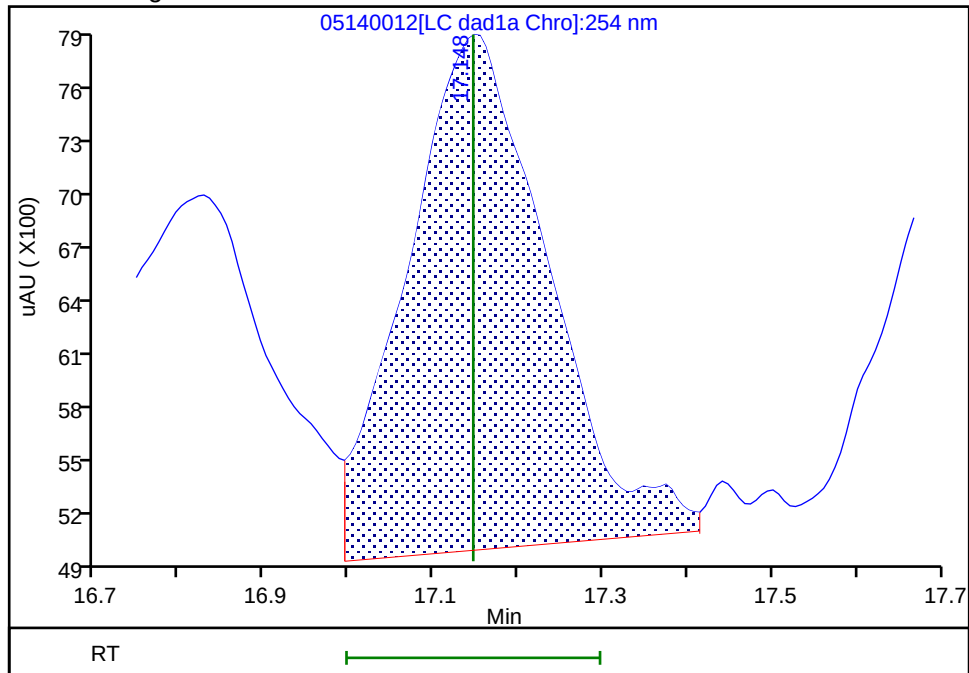
RT: 17.15
Area: 35863
Amount: 0.102237
Amount Units: ug/ml

Processing Integration Results



RT: 17.15
Area: 32448
Amount: 0.093988
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:21:48
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

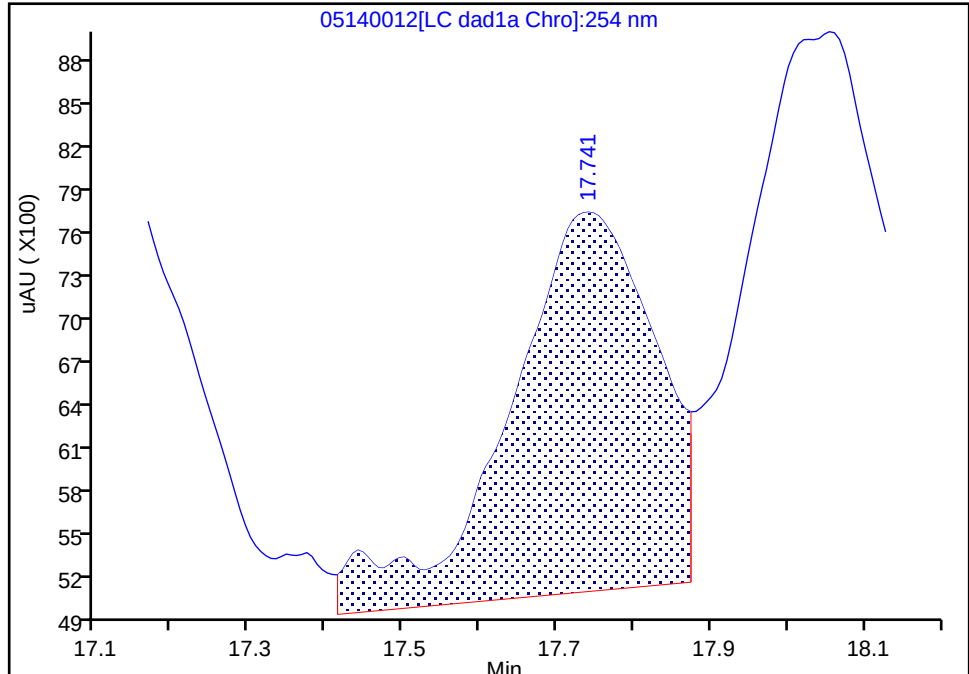
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d
Injection Date: 14-May-2020 19:11:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 4
Client ID:
Operator ID: CB ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

17 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

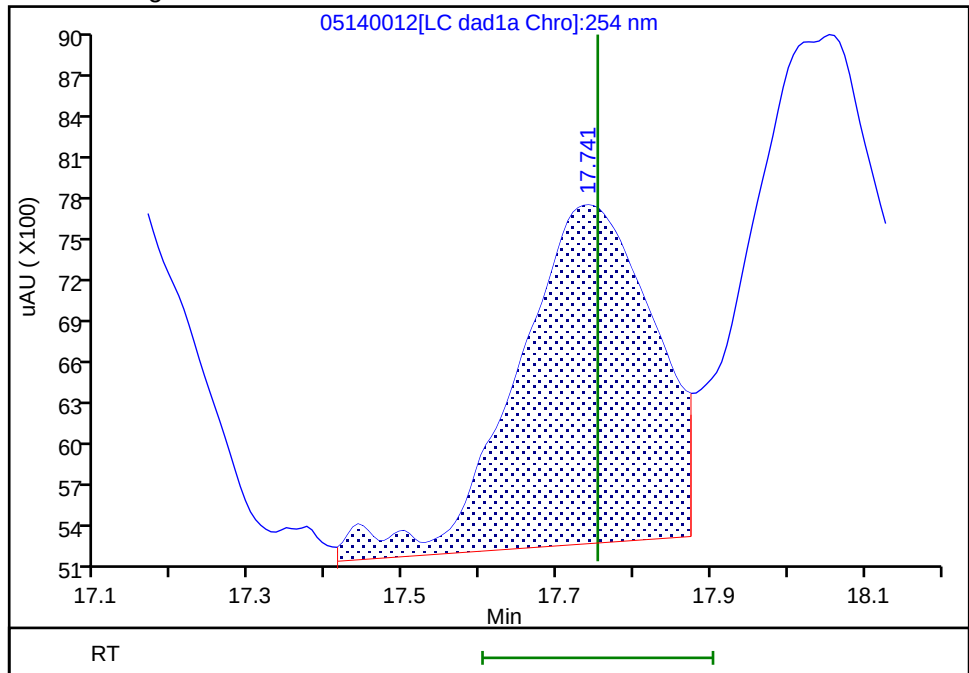
RT: 17.74
Area: 34712
Amount: 0.117045
Amount Units: ug/ml

Processing Integration Results



RT: 17.74
Area: 30586
Amount: 0.102525
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:21:48
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

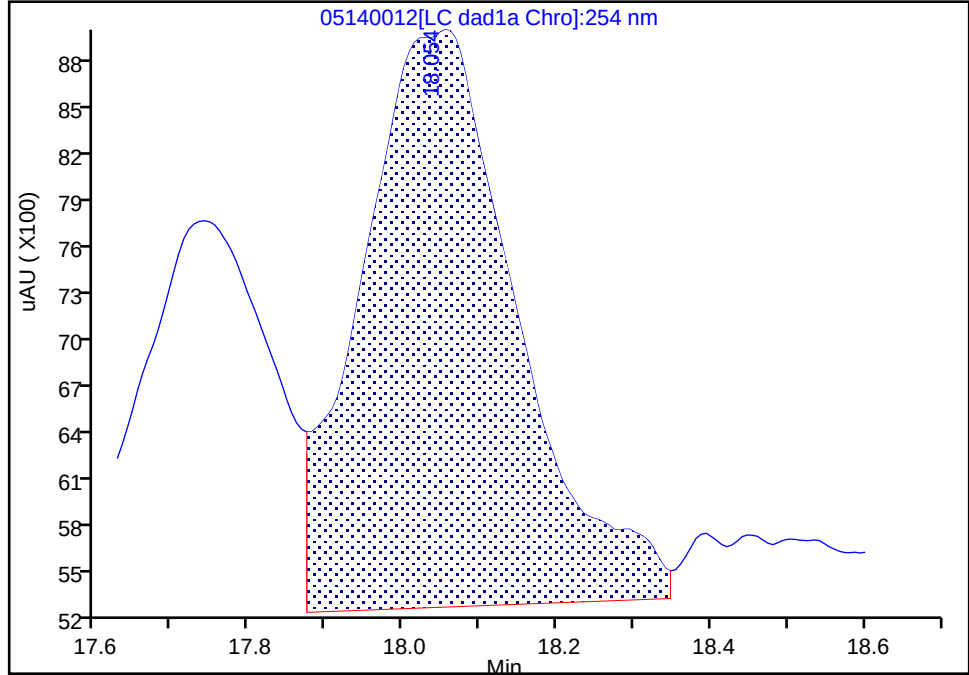
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d
Injection Date: 14-May-2020 19:11:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 4
Client ID:
Operator ID: CB ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

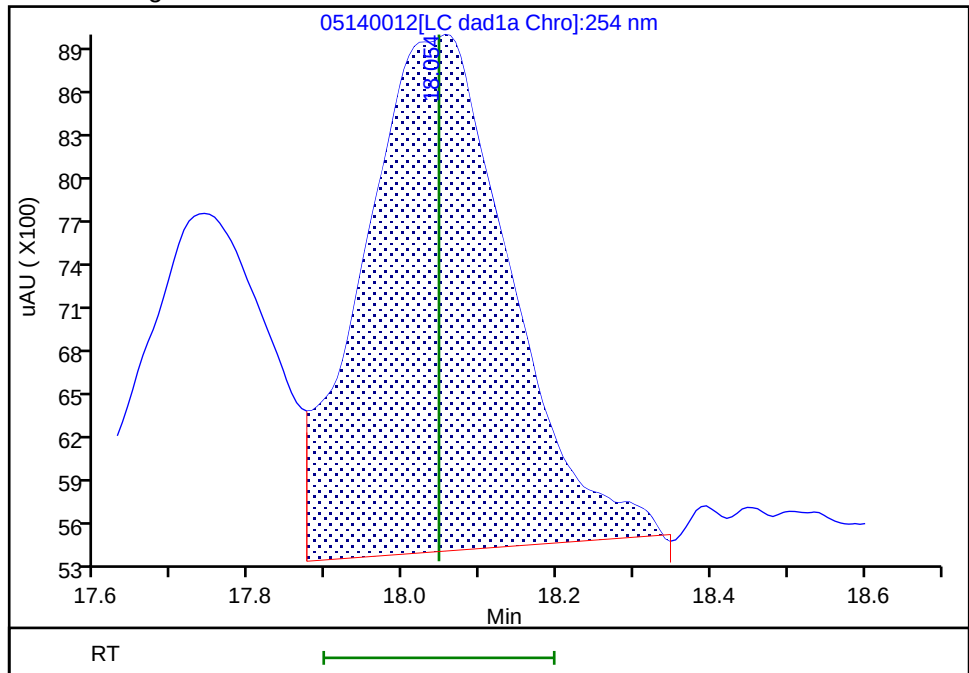
RT: 18.05
Area: 52538
Amount: 0.110599
Amount Units: ug/ml

Processing Integration Results



RT: 18.05
Area: 47526
Amount: 0.102160
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:21:48
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

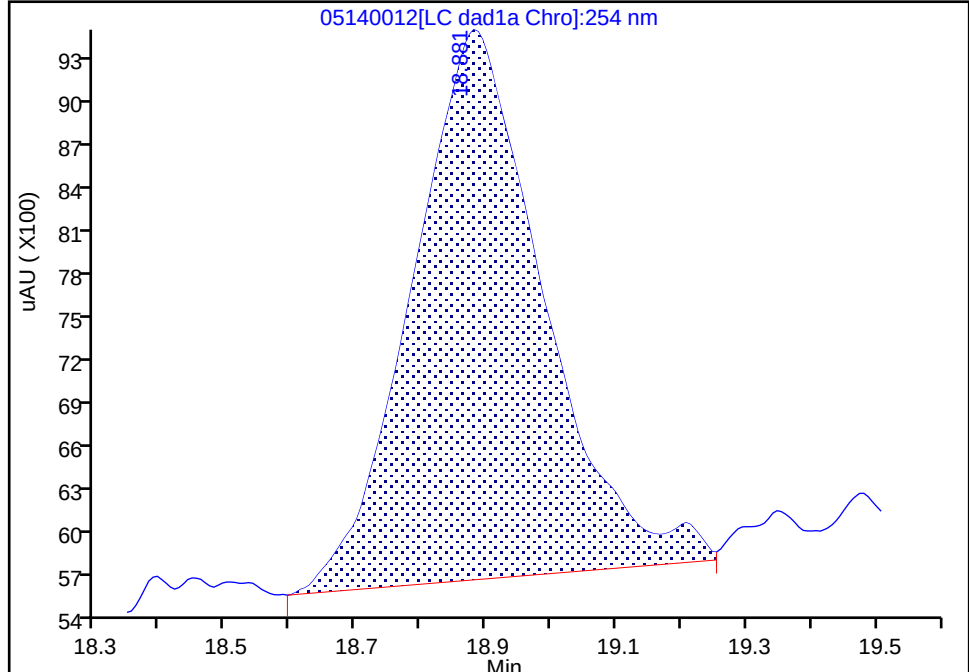
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d
Injection Date: 14-May-2020 19:11:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 4
Client ID:
Operator ID: CB ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

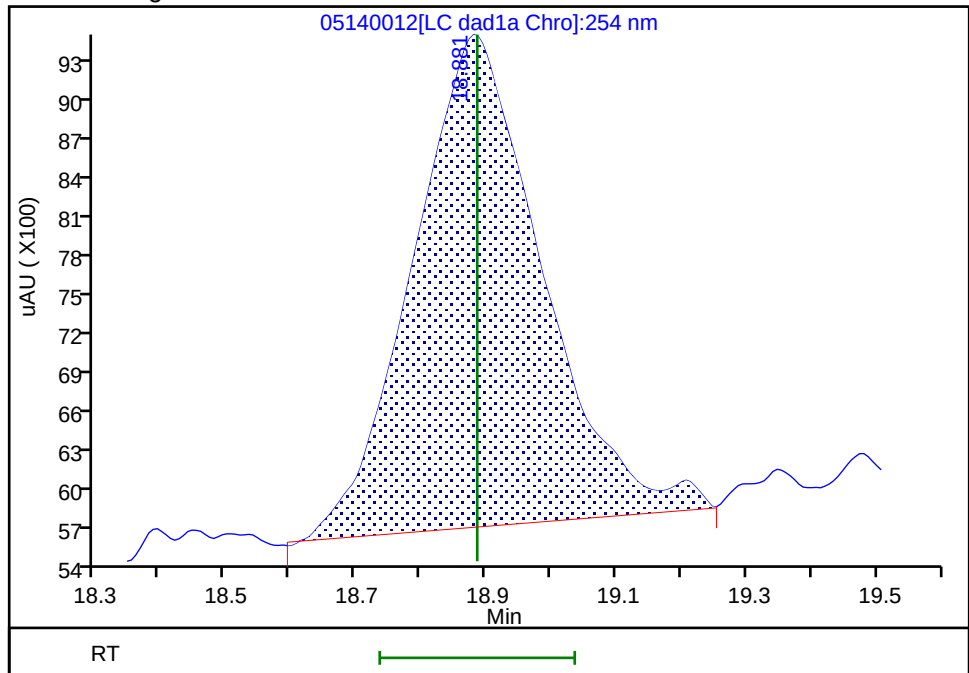
RT: 18.88
Area: 52433
Amount: 0.109995
Amount Units: ug/ml

Processing Integration Results



RT: 18.88
Area: 51028
Amount: 0.108007
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:21:48
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

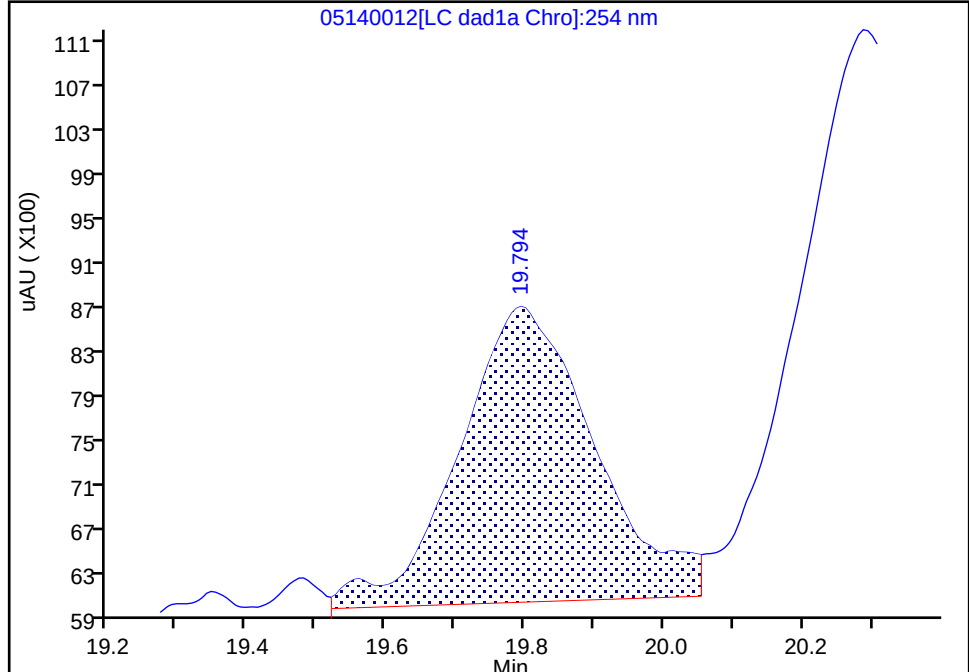
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d
Injection Date: 14-May-2020 19:11:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 4
Client ID:
Operator ID: CB ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

20 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

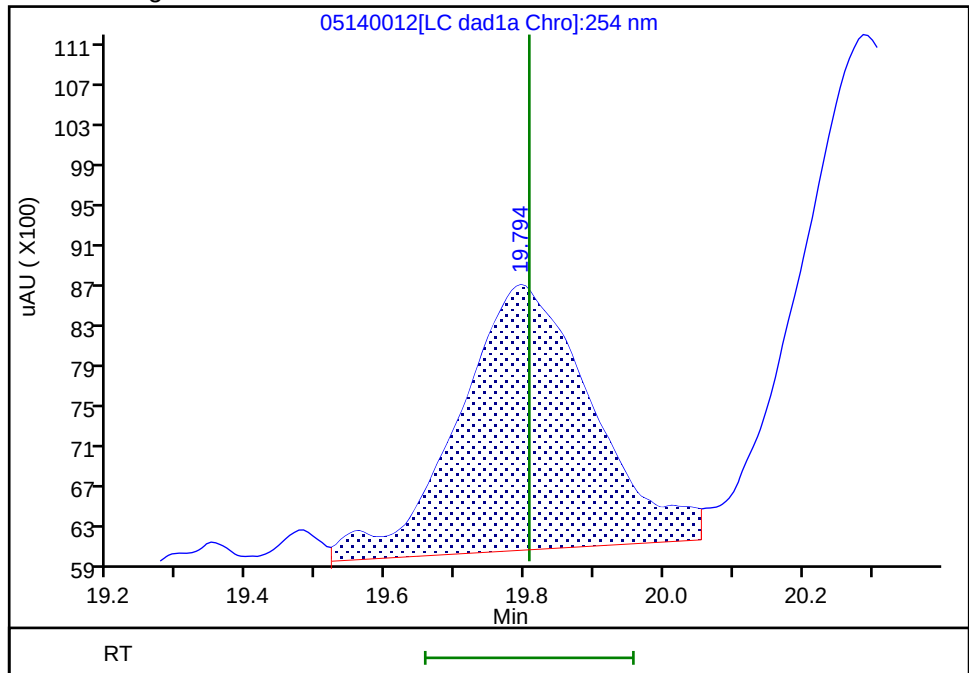
RT: 19.79
Area: 35123
Amount: 0.102517
Amount Units: ug/ml

Processing Integration Results



RT: 19.79
Area: 34659
Amount: 0.104499
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:21:48
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

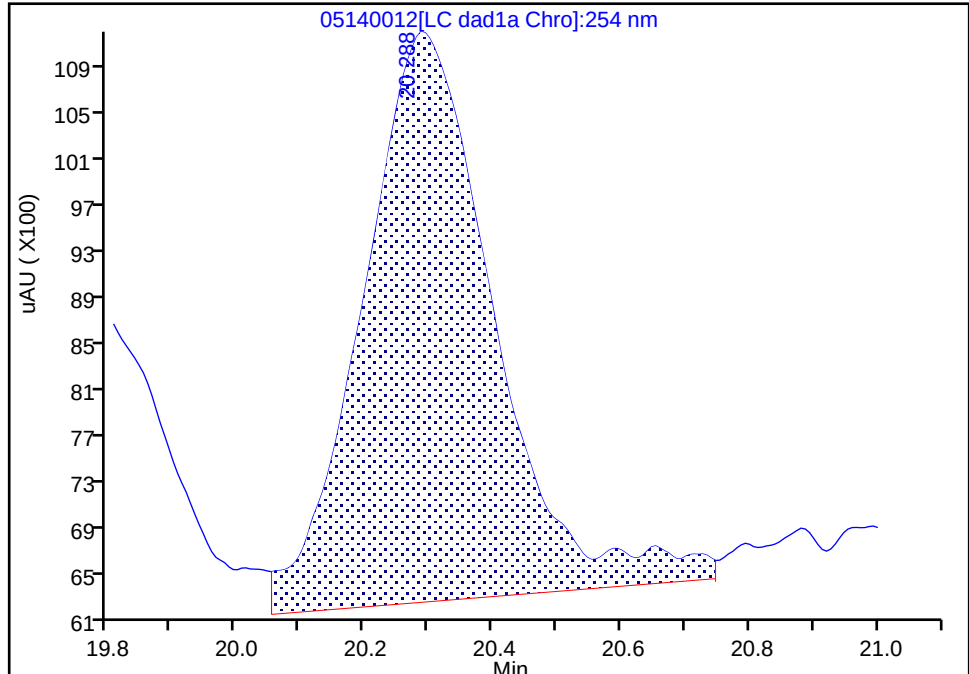
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d
Injection Date: 14-May-2020 19:11:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 4
Client ID:
Operator ID: CB ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

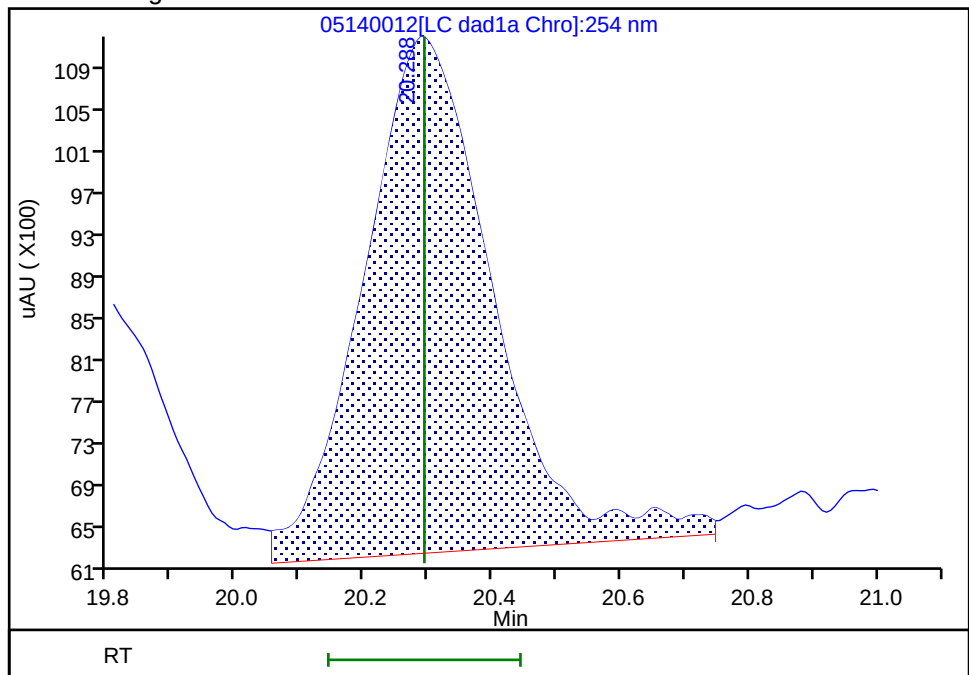
RT: 20.29
Area: 69455
Amount: 0.105715
Amount Units: ug/ml

Processing Integration Results



RT: 20.29
Area: 67500
Amount: 0.105450
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:21:48
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

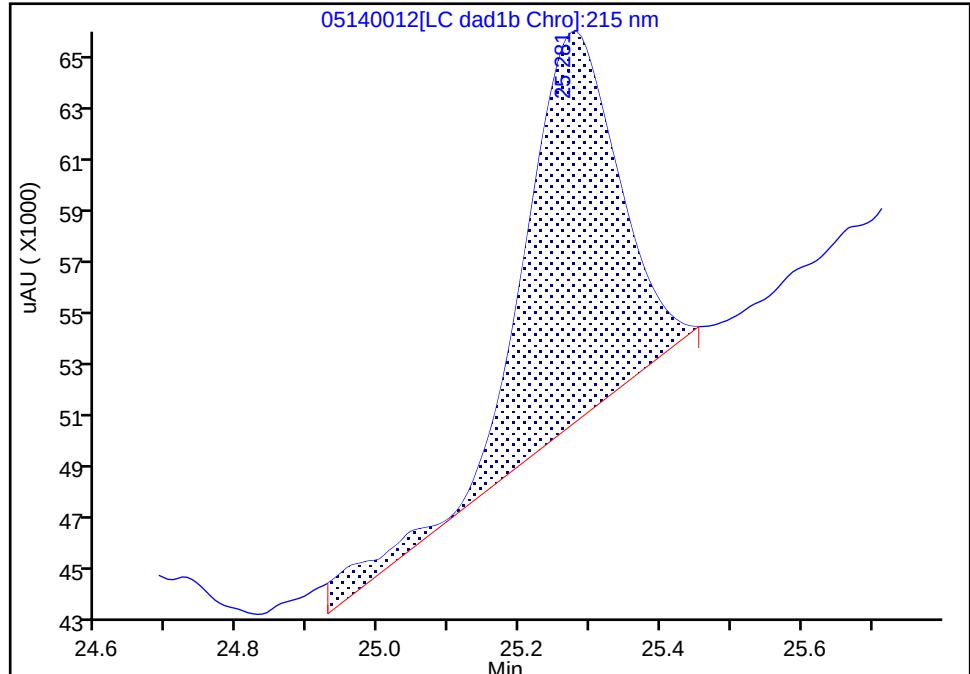
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d
Injection Date: 14-May-2020 19:11:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 4
Client ID:
Operator ID: CB ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Detector LC DAD1B, 215 nm

24 PETN, CAS: 78-11-5

Signal: 1

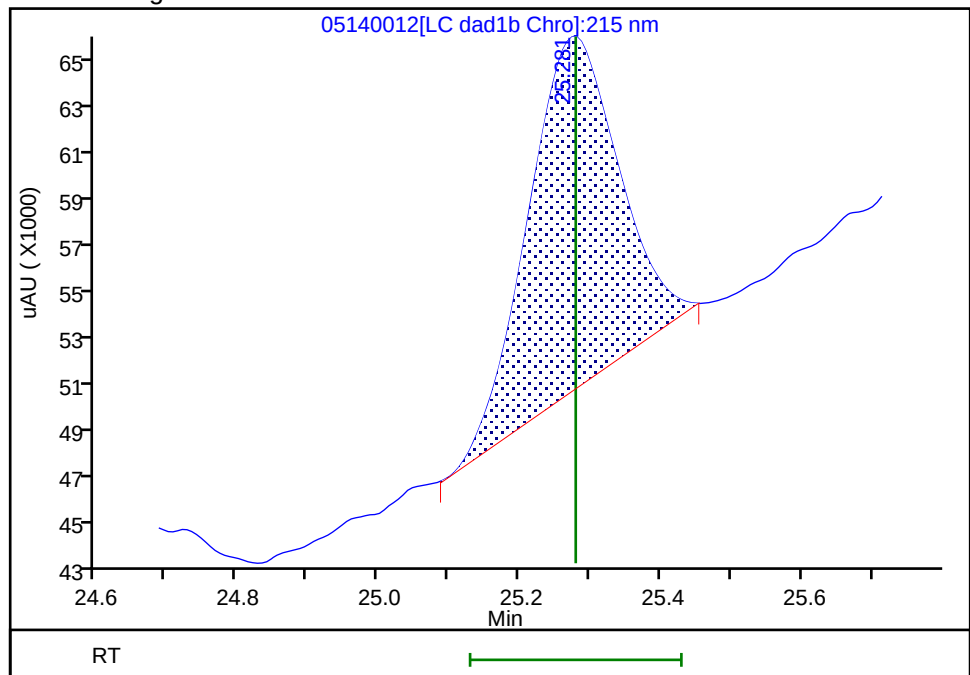
RT: 25.28
Area: 139443
Amount: 1.011611
Amount Units: ug/ml

Processing Integration Results



RT: 25.28
Area: 132172
Amount: 0.810643
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:24:59

Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140013.D
 Lims ID: IC FULL 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 14-May-2020 19:46:37 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC FULL 3
 Misc. Info.: 280-0091518-013
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub6
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 15-May-2020 12:00:58 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0318

First Level Reviewer: zhangji

Date: 15-May-2020 11:22:17

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	4.357	4.366	-0.009	22969	0.0500	0.0535	
2 2,4-diamino-6-nitrotoluene	1	4.851	4.880	-0.029	16562	0.0500	0.0464	
5 2,4,6-Trinitrophenol	1	6.331	6.300	0.031	9462	0.0500	0.0488	a
6 HMX	1	6.984	6.986	-0.002	12646	0.0500	0.0414	
8 RDX	1	9.184	9.173	0.011	15119	0.0500	0.0619	
9 Nitrobenzene	1	12.110	12.106	0.004	28424	0.0502	0.0647	
\$ 10 1,2-Dinitrobenzene	1	13.037	13.040	-0.003	18744	0.0500	0.0610	M
11 3,5-Dinitroaniline	1	14.890	14.886	0.004	27916	0.0500	0.0518	M
12 1,3-Dinitrobenzene	1	15.544	15.553	-0.009	37161	0.0501	0.0551	M
13 Nitroglycerin	2	15.844	15.853	-0.009	64042	0.5000	0.5050	M
14 o-Nitrotoluene	1	16.550	16.533	0.017	16003	0.0500	0.0586	M
15 p-Nitrotoluene	1	16.837	16.820	0.017	15492	0.0501	0.0643	M
16 4-Amino-2,6-dinitrotoluene	1	17.157	17.146	0.011	22118	0.0501	0.0641	M
17 m-Nitrotoluene	1	17.724	17.753	-0.029	19280	0.0501	0.0646	M
18 2-Amino-4,6-dinitrotoluene	1	18.030	18.046	-0.016	28982	0.0502	0.0623	M
19 1,3,5-Trinitrobenzene	1	18.864	18.886	-0.022	26649	0.0501	0.0564	M
20 2,6-Dinitrotoluene	1	19.817	19.806	0.011	19107	0.0502	0.0507	M
21 2,4-Dinitrotoluene	1	20.290	20.293	-0.003	37302	0.0502	0.0583	M
22 Tetryl	1	23.557	23.553	0.004	20202	0.0501	0.0548	
23 2,4,6-Trinitrotoluene	1	24.637	24.653	-0.016	28366	0.0502	0.0628	
24 PETN	2	25.277	25.280	-0.003	102120	0.5000	0.5782	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8330IntermStk_00064

Amount Added: 5.00

Units: uL

8330_ADDs_00026

Amount Added: 2.50

Units: uL

Report Date: 15-May-2020 12:00:58

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d

Injection Date: 14-May-2020 19:46:37

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC FULL 3

Worklist Smp#: 13

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

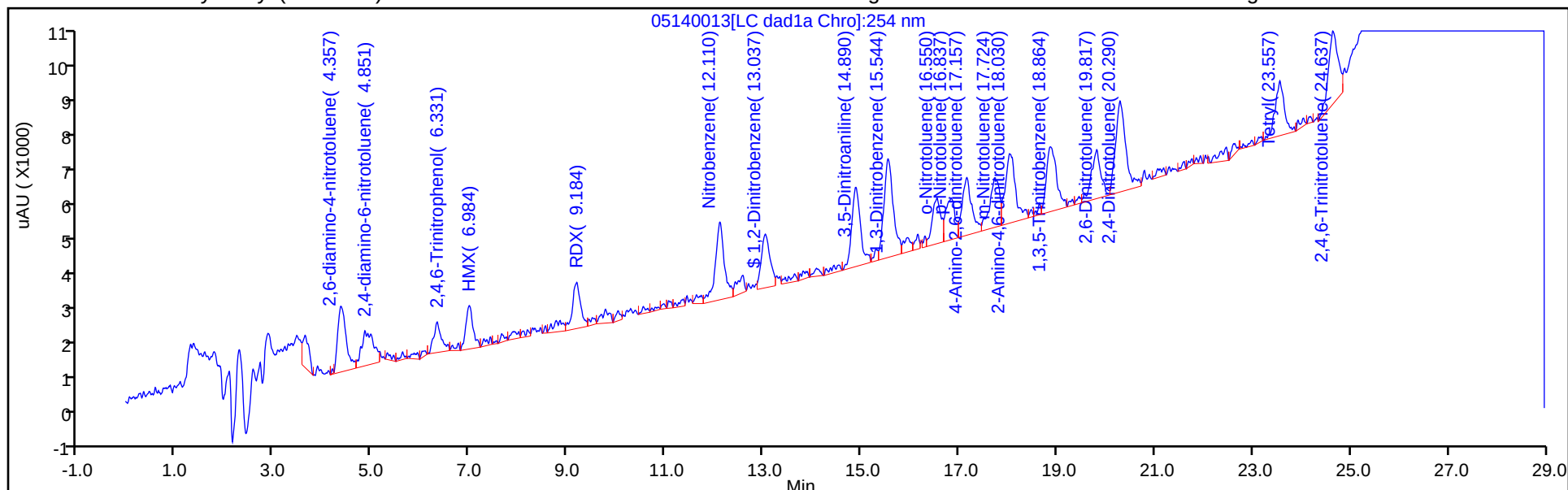
ALS Bottle#: 13

Method: G2_8330_Luna

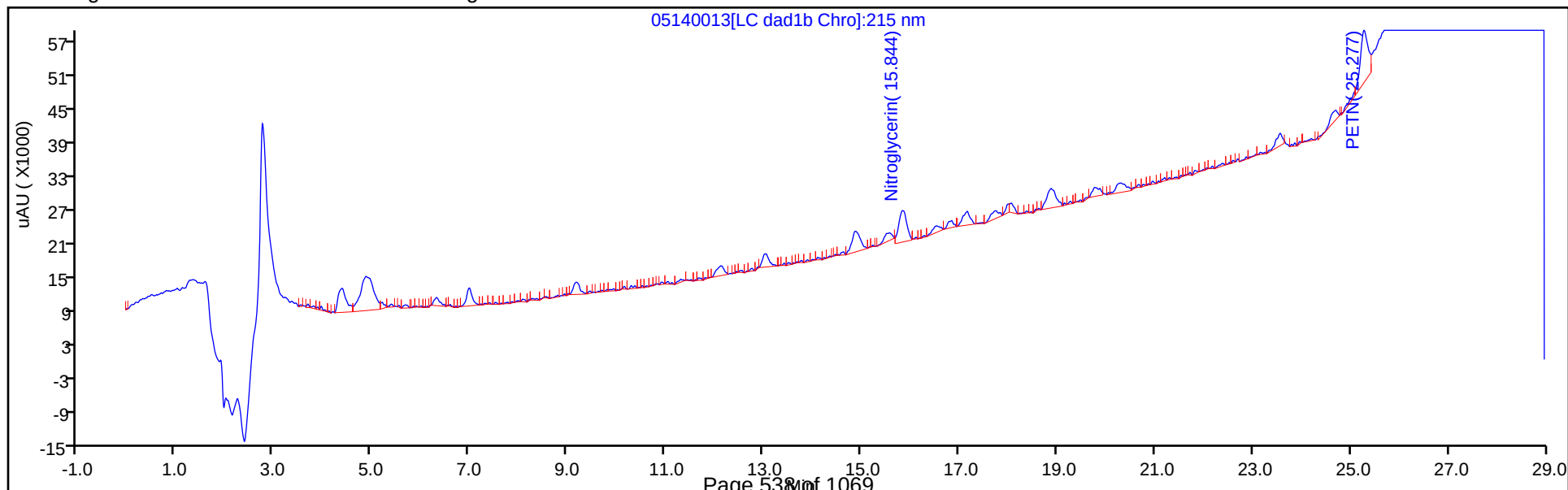
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver

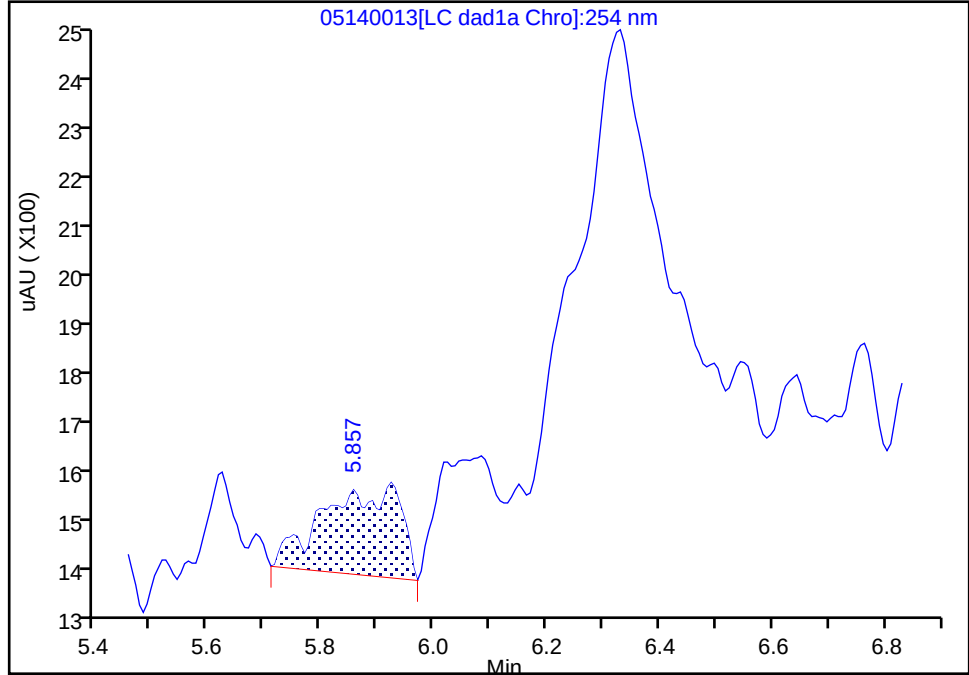
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d
Injection Date: 14-May-2020 19:46:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 3
Client ID:
Operator ID: CB ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

5 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

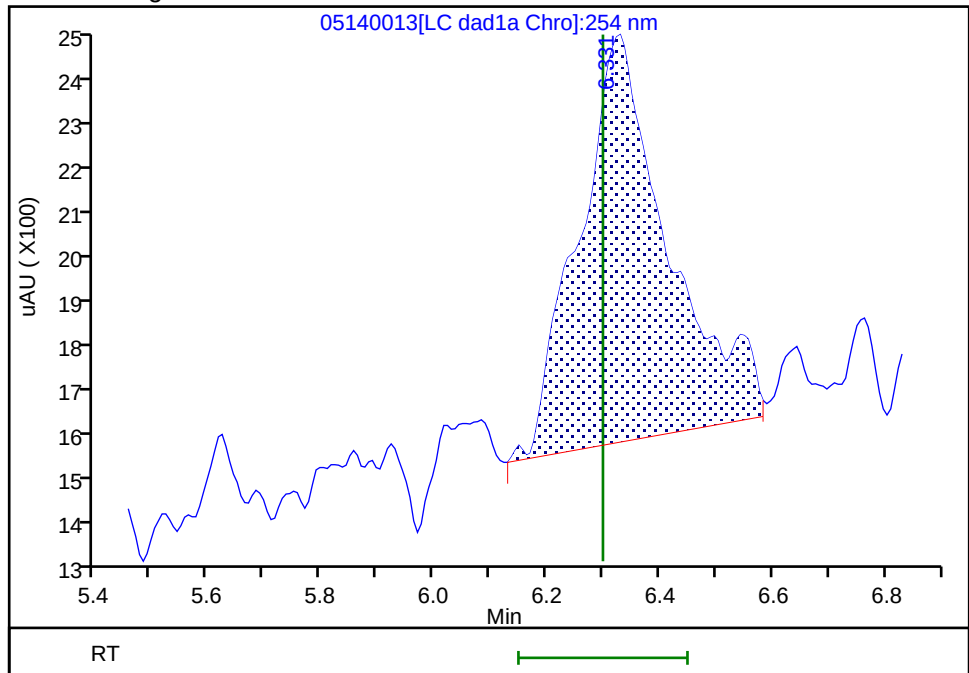
RT: 5.86
Area: 1615
Amount: 0.011701
Amount Units: ug/ml

Processing Integration Results



RT: 6.33
Area: 9462
Amount: 0.048821
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:22:16

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins TestAmerica, Denver

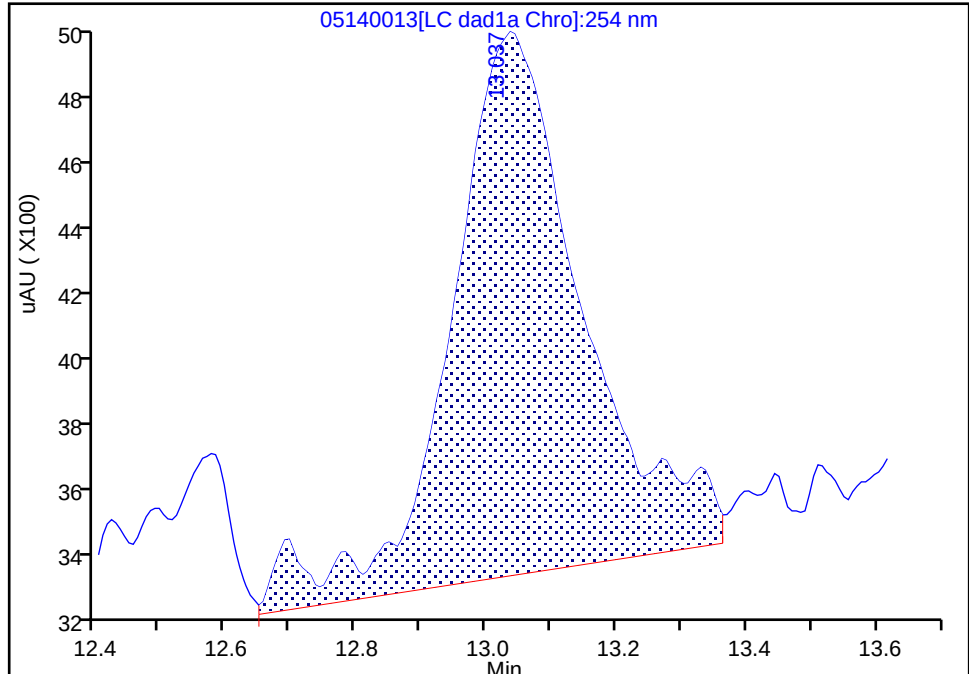
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d
Injection Date: 14-May-2020 19:46:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 3
Client ID:
Operator ID: CB ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

\$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

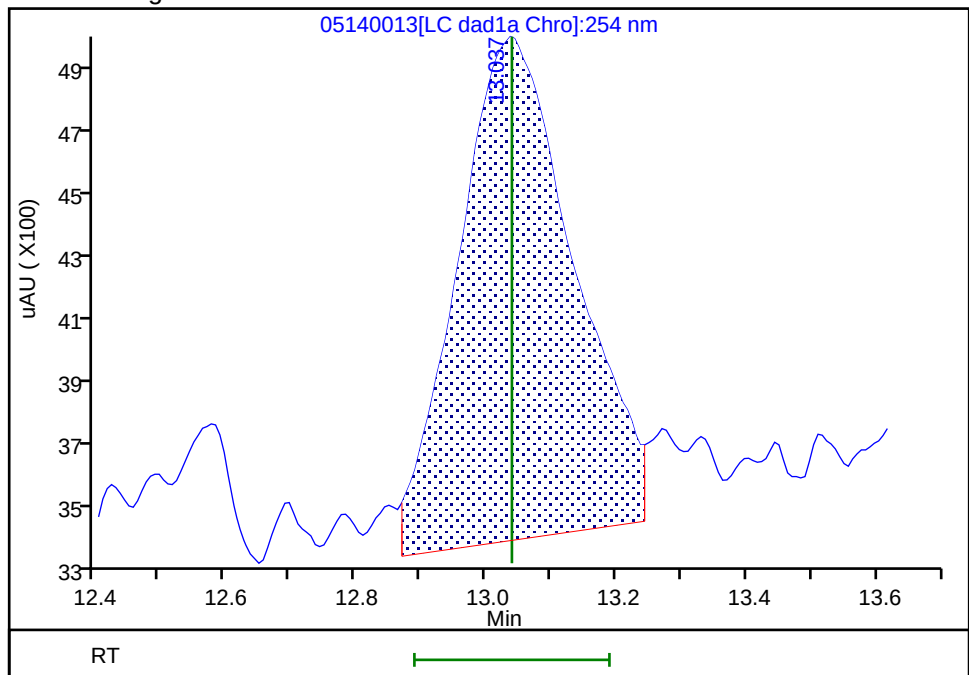
RT: 13.04
Area: 21320
Amount: 0.066490
Amount Units: ug/ml

Processing Integration Results



RT: 13.04
Area: 18744
Amount: 0.060979
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:35:23
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

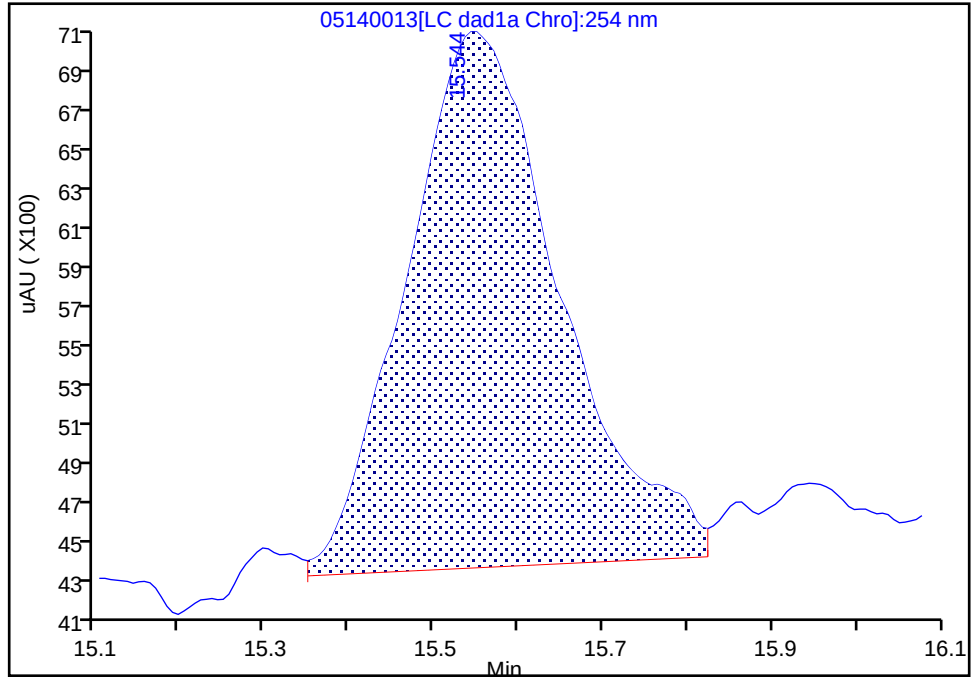
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d
Injection Date: 14-May-2020 19:46:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 3
Client ID:
Operator ID: CB ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

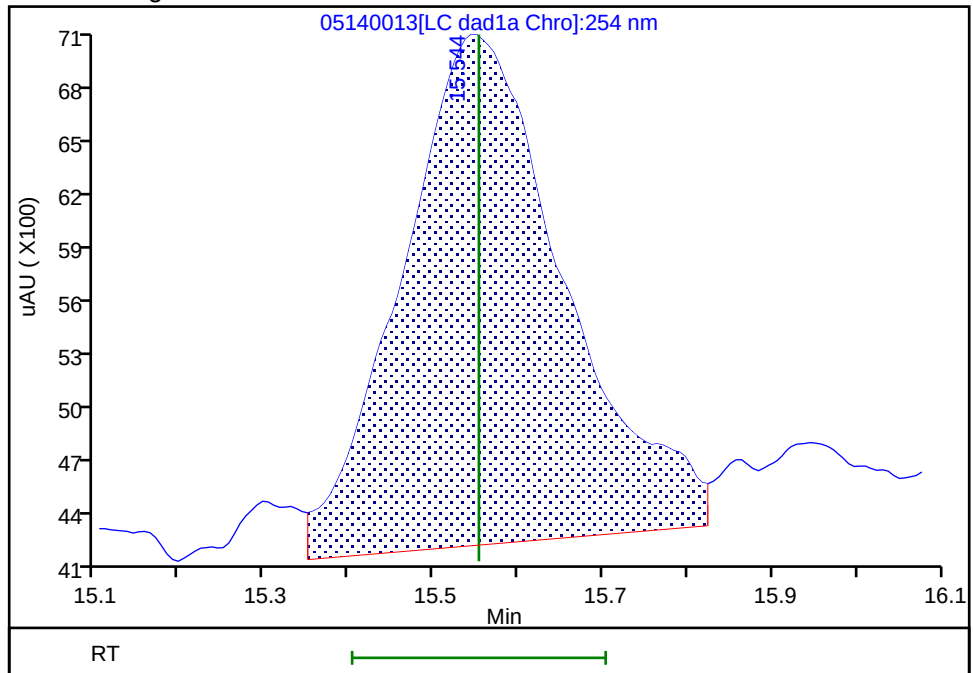
RT: 15.54
Area: 33327
Amount: 0.049753
Amount Units: ug/ml

Processing Integration Results



RT: 15.54
Area: 37161
Amount: 0.055120
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:22:04

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

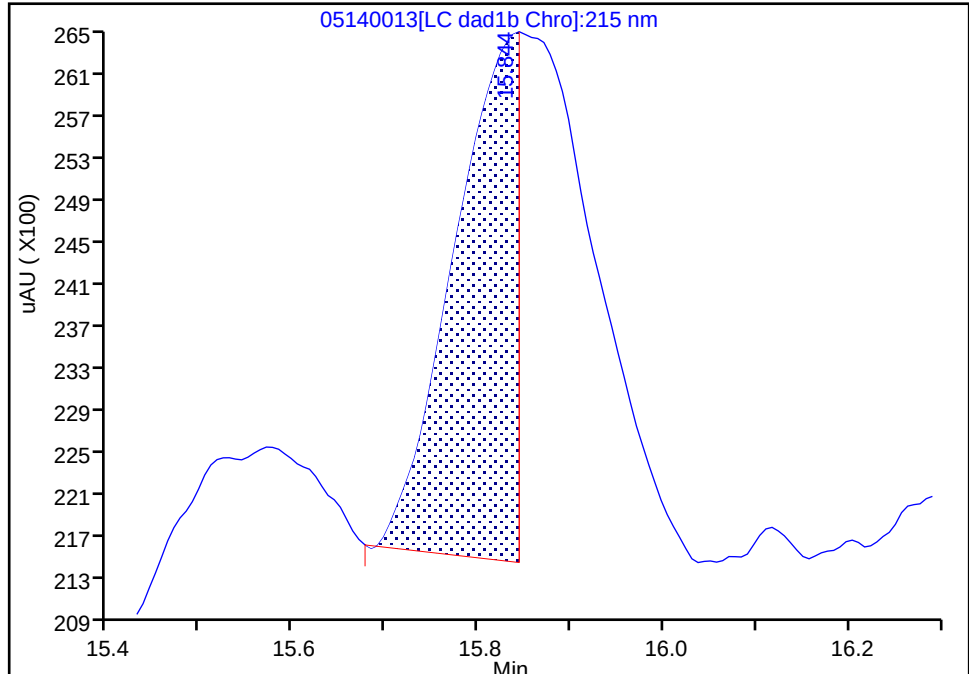
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d
Injection Date: 14-May-2020 19:46:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 3
Client ID:
Operator ID: CB ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Detector LC DAD1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

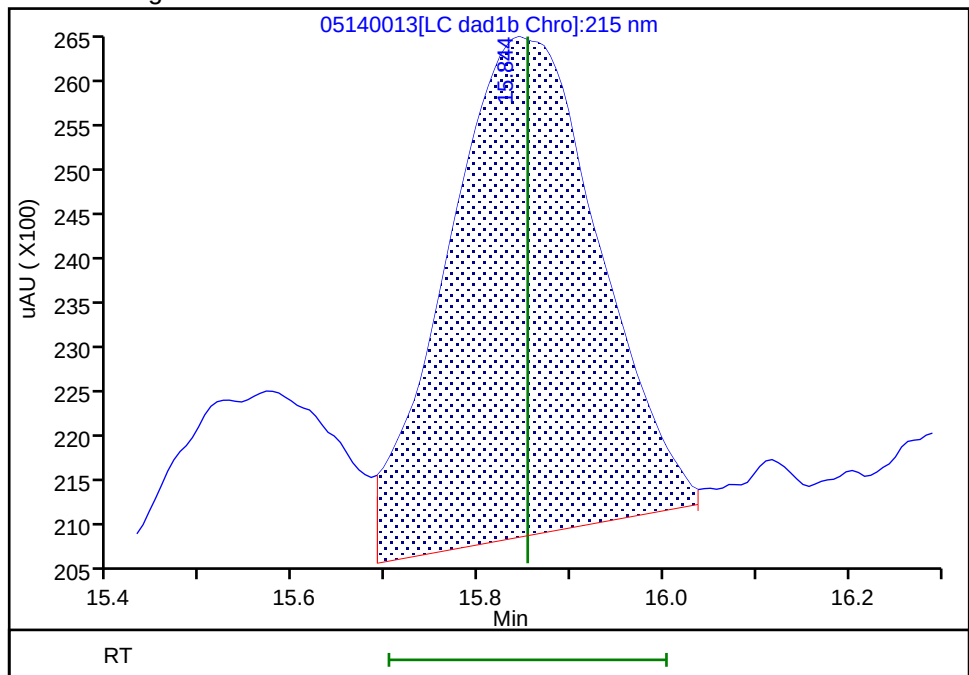
RT: 15.84
Area: 23753
Amount: 0.203485
Amount Units: ug/ml

Processing Integration Results



RT: 15.84
Area: 64042
Amount: 0.505050
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:32:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Denver

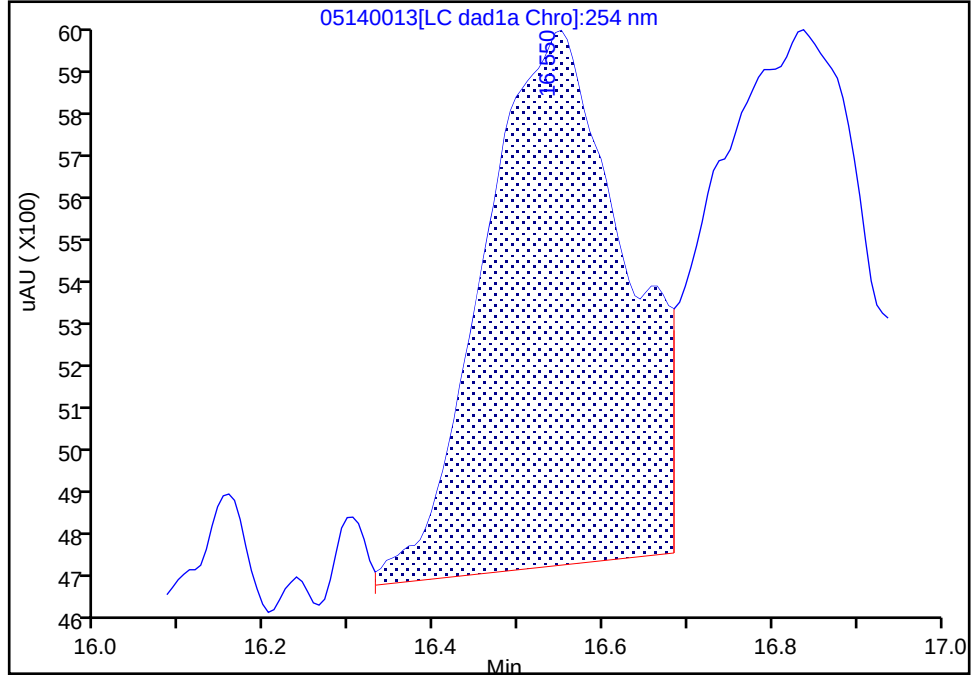
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d
Injection Date: 14-May-2020 19:46:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 3
Client ID:
Operator ID: CB ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

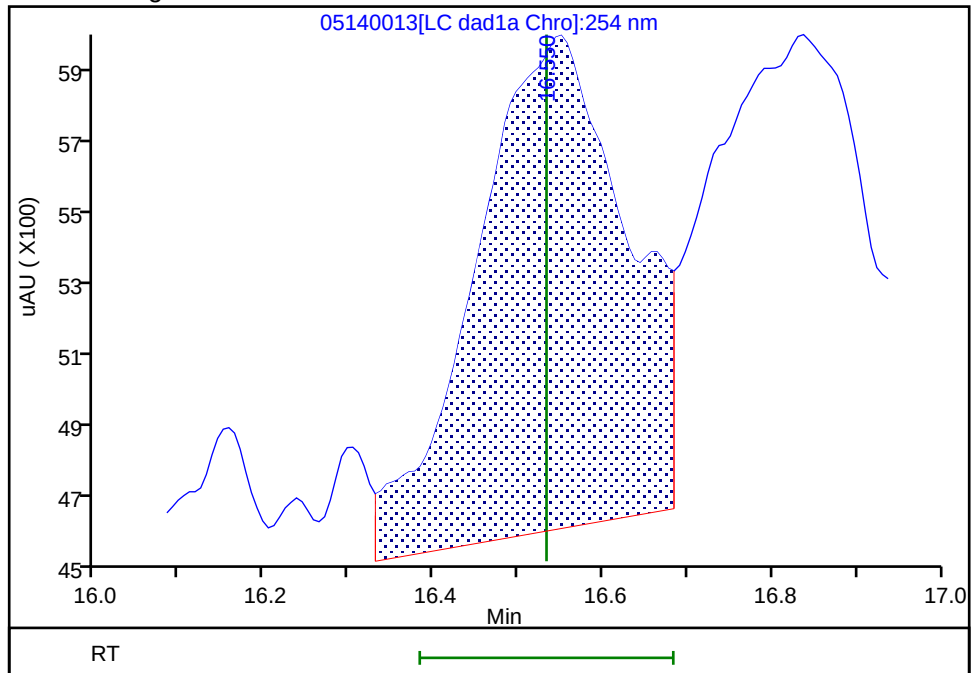
RT: 16.55
Area: 13586
Amount: 0.049463
Amount Units: ug/ml

Processing Integration Results



RT: 16.55
Area: 16003
Amount: 0.058627
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

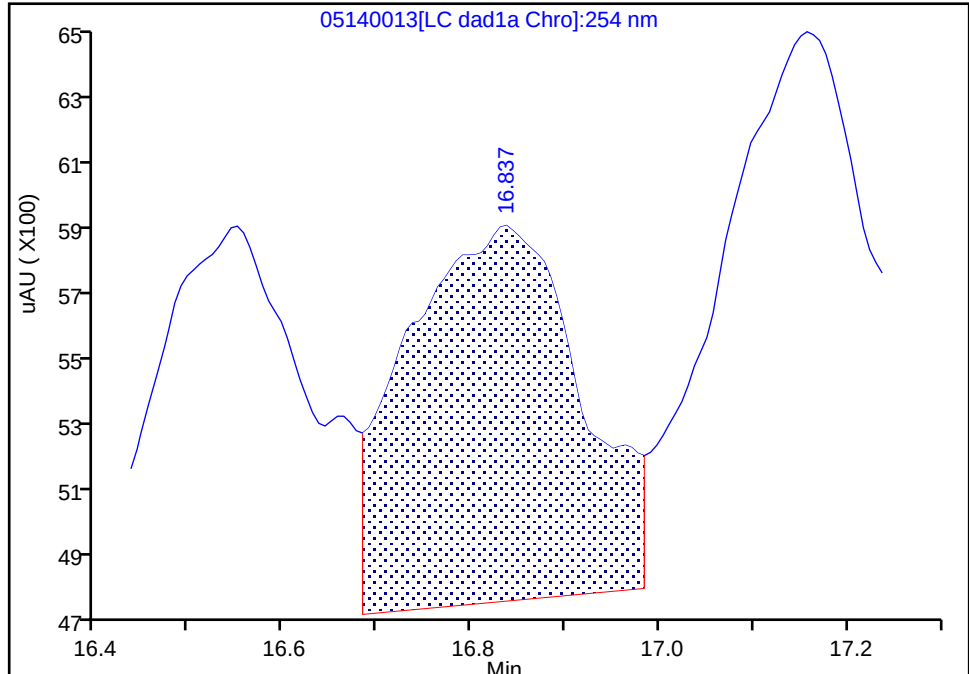
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d
Injection Date: 14-May-2020 19:46:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 3
Client ID:
Operator ID: CB ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

15 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

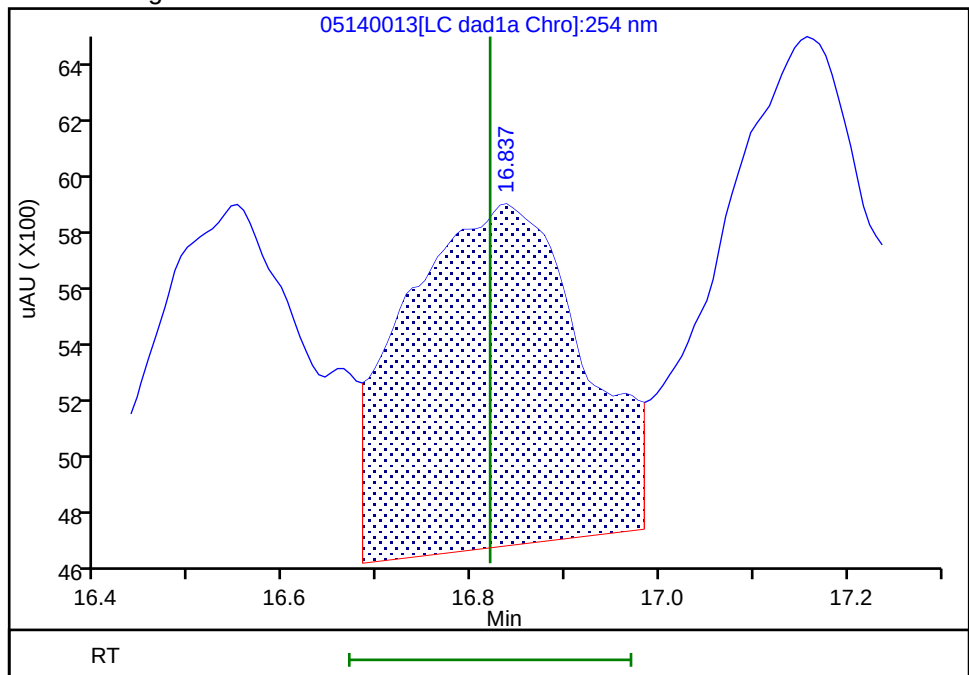
RT: 16.84
Area: 14394
Amount: 0.057129
Amount Units: ug/ml

Processing Integration Results



RT: 16.84
Area: 15492
Amount: 0.064314
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

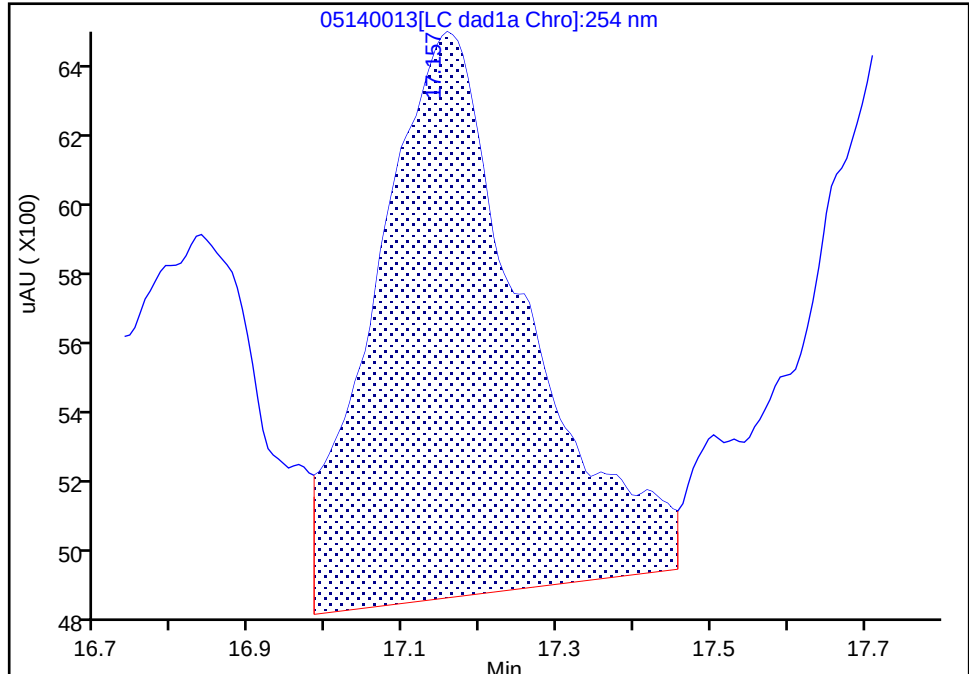
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d
Injection Date: 14-May-2020 19:46:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 3
Client ID:
Operator ID: CB ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

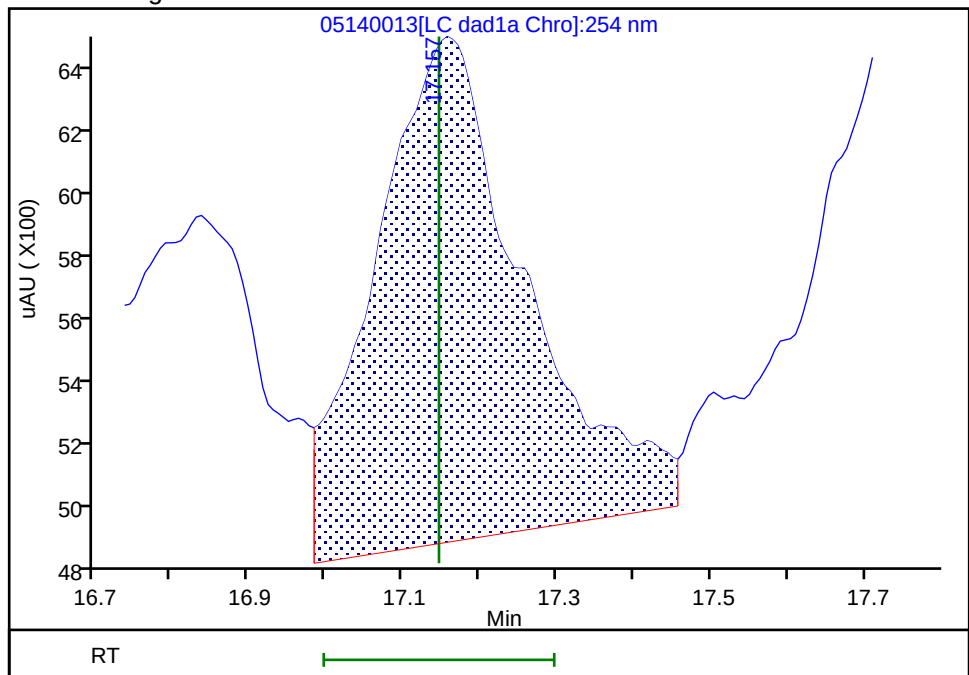
RT: 17.16
Area: 21749
Amount: 0.062679
Amount Units: ug/ml

Processing Integration Results



RT: 17.16
Area: 22118
Amount: 0.064067
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

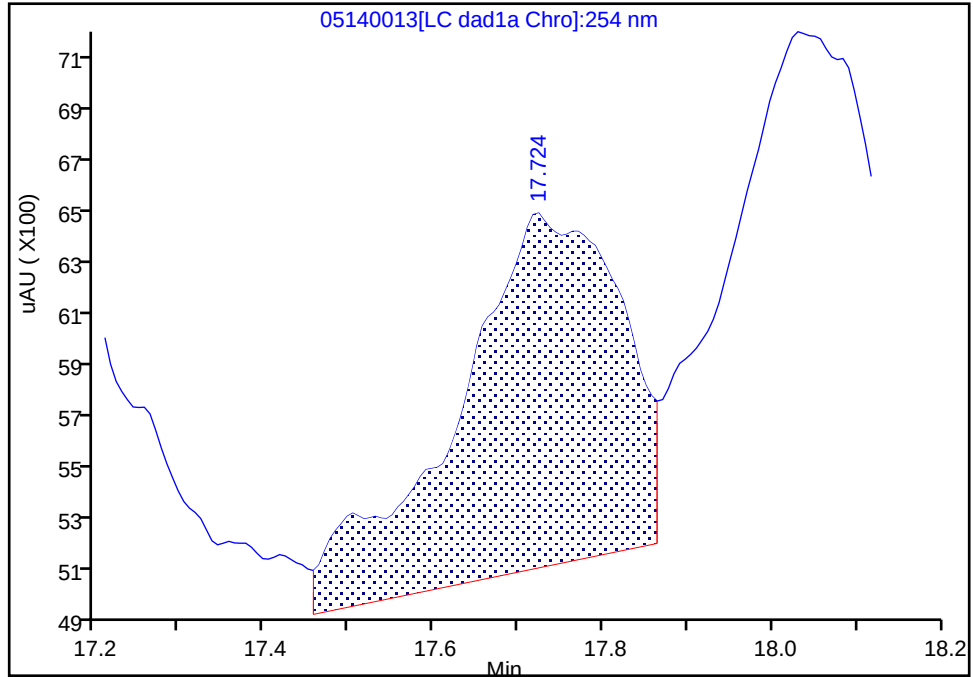
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d
Injection Date: 14-May-2020 19:46:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 3
Client ID:
Operator ID: CB ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

17 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

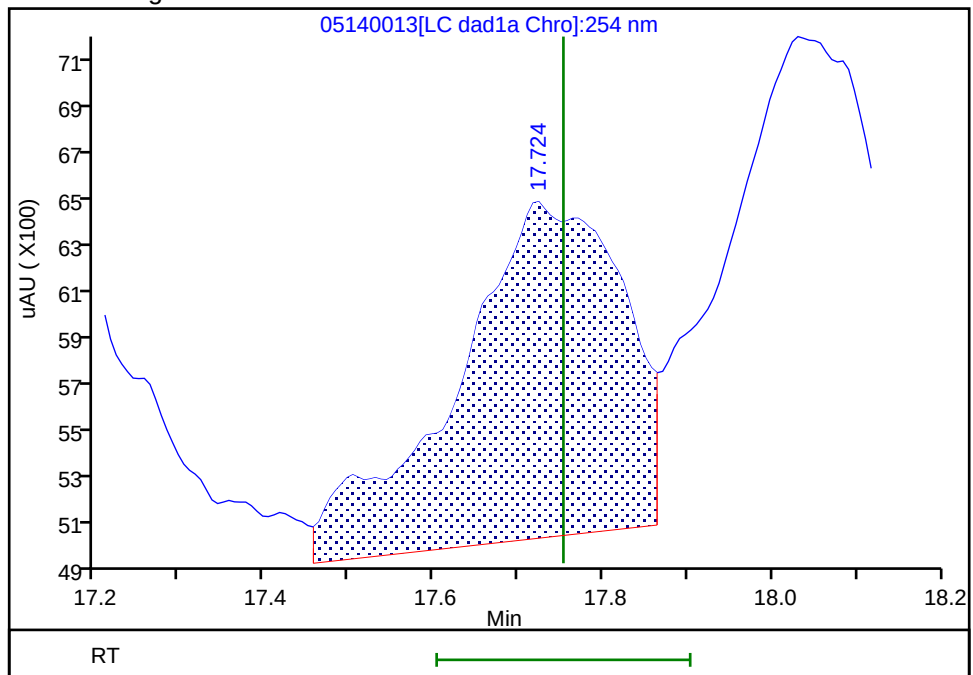
RT: 17.72
Area: 18317
Amount: 0.062732
Amount Units: ug/ml

Processing Integration Results



RT: 17.72
Area: 19280
Amount: 0.064627
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

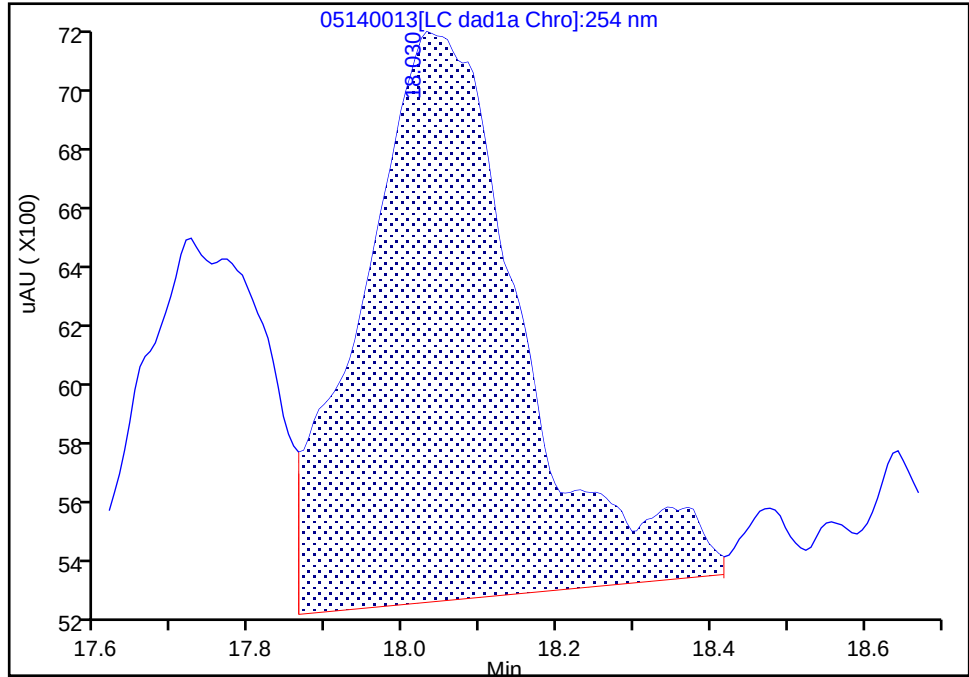
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d
Injection Date: 14-May-2020 19:46:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 3
Client ID:
Operator ID: CB ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

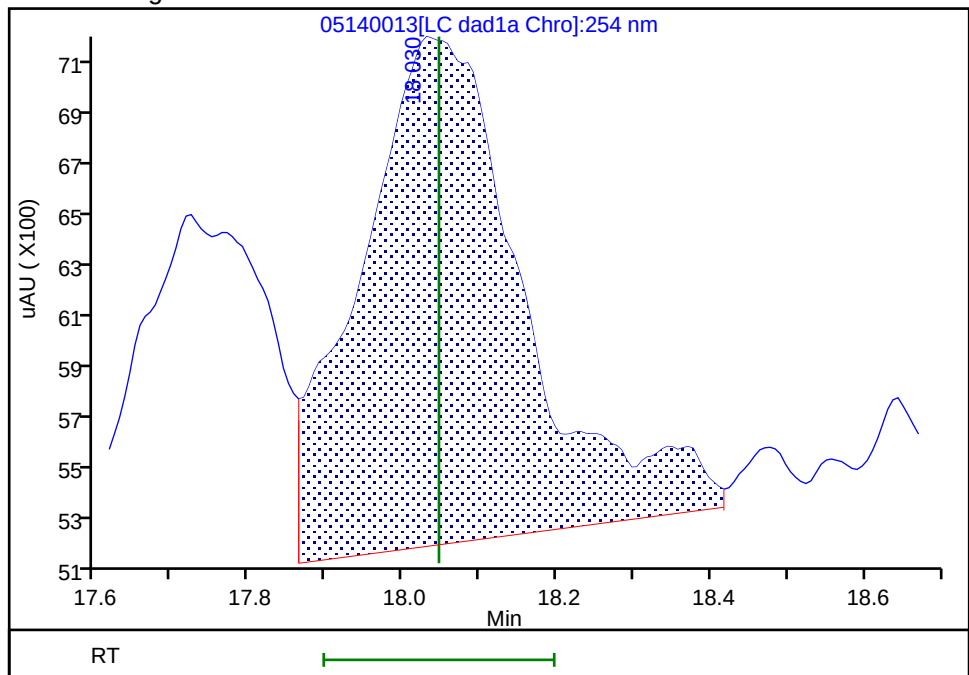
RT: 18.03
Area: 27239
Amount: 0.055134
Amount Units: ug/ml

Processing Integration Results



RT: 18.03
Area: 28982
Amount: 0.062299
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

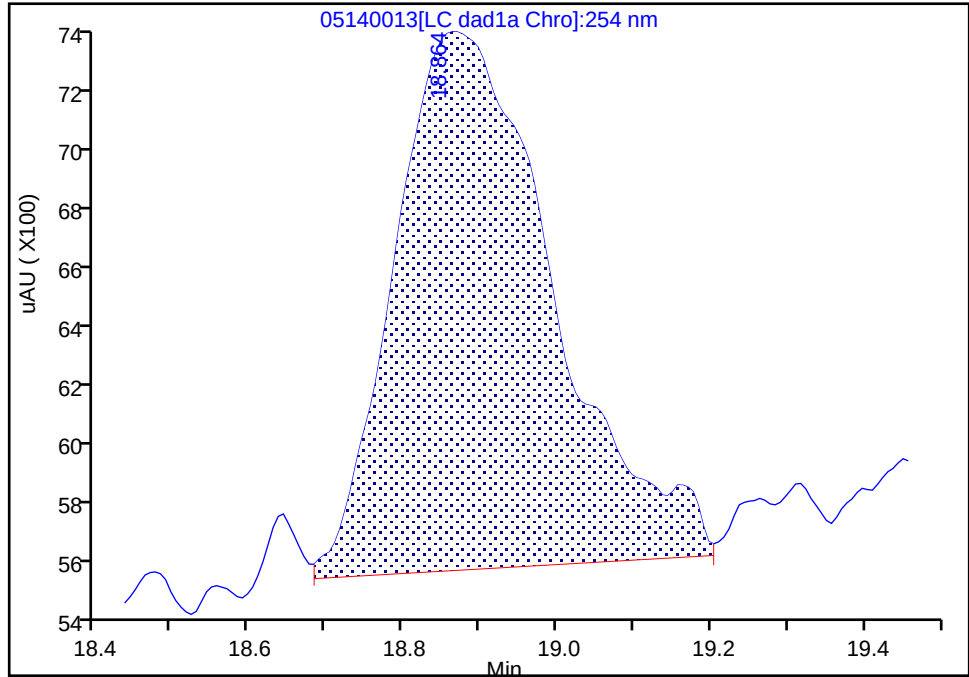
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d
Injection Date: 14-May-2020 19:46:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 3
Client ID:
Operator ID: CB ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

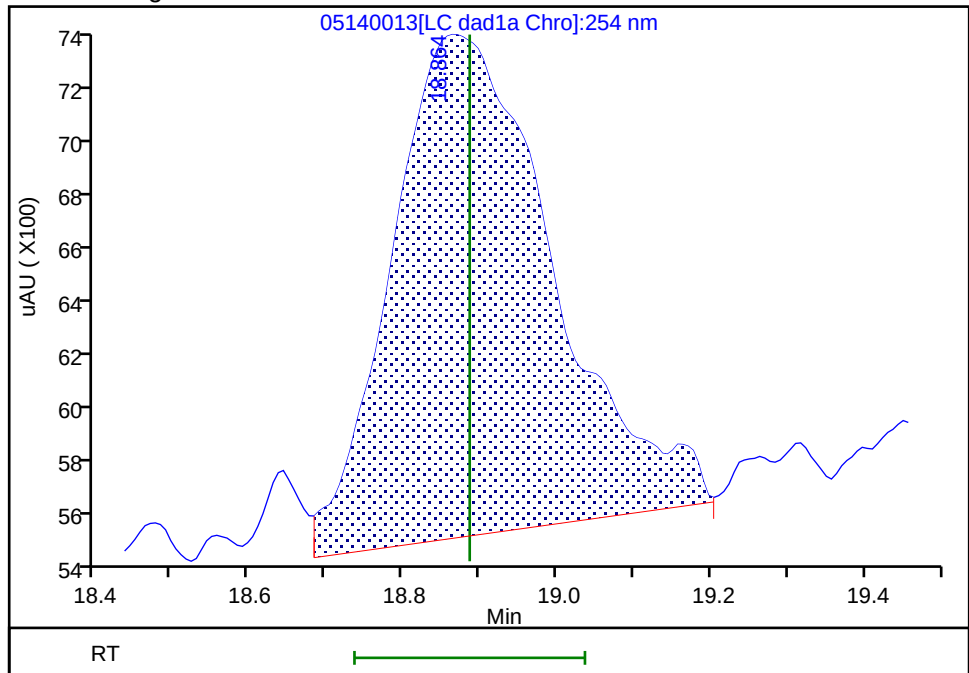
RT: 18.86
Area: 25370
Amount: 0.053396
Amount Units: ug/ml

Processing Integration Results



RT: 18.86
Area: 26649
Amount: 0.056406
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

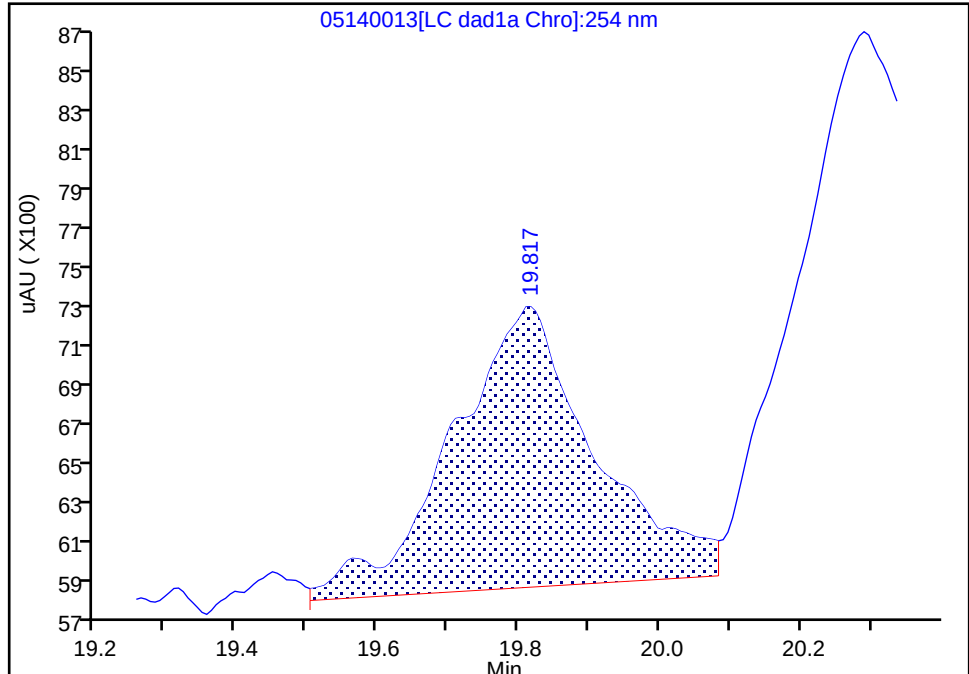
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d
Injection Date: 14-May-2020 19:46:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 3
Client ID:
Operator ID: CB ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

20 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

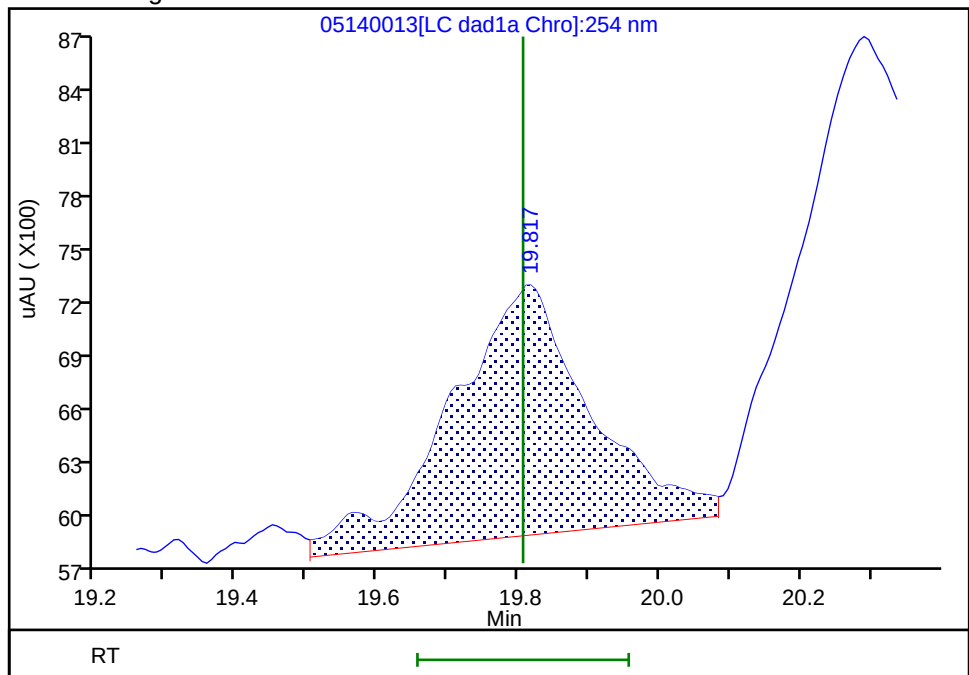
RT: 19.82
Area: 19664
Amount: 0.057481
Amount Units: ug/ml

Processing Integration Results



RT: 19.82
Area: 19107
Amount: 0.050727
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

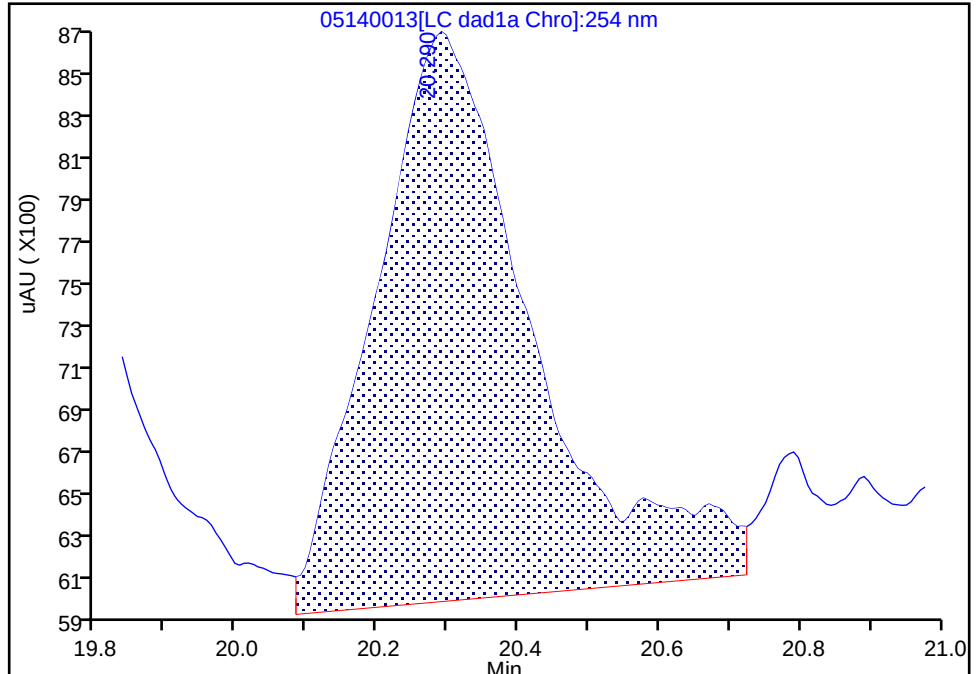
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d
Injection Date: 14-May-2020 19:46:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 3
Client ID:
Operator ID: CB ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

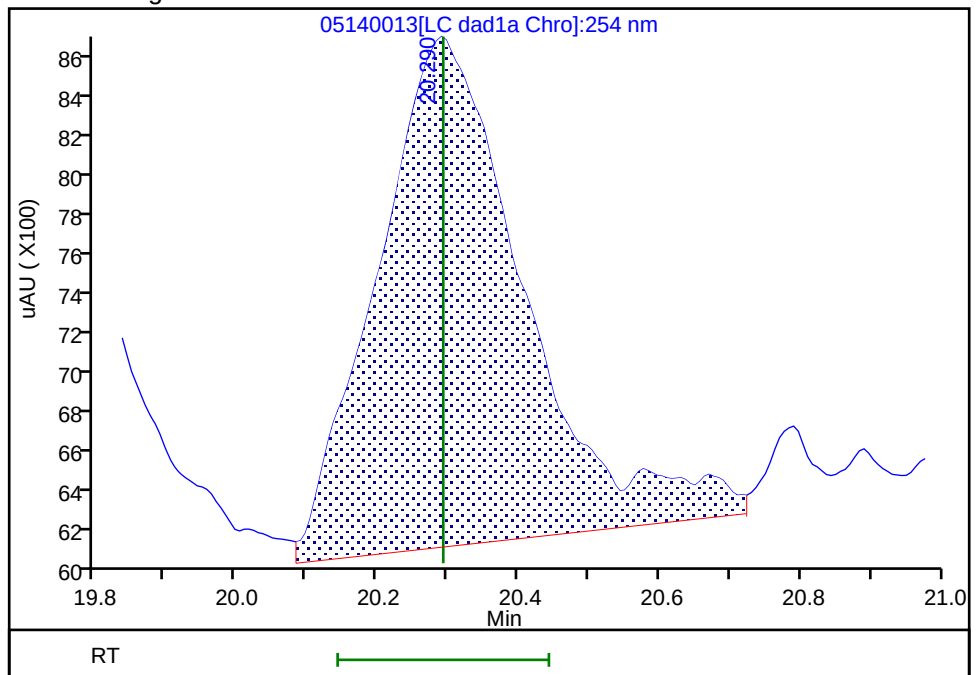
RT: 20.29
Area: 41123
Amount: 0.062799
Amount Units: ug/ml

Processing Integration Results



RT: 20.29
Area: 37302
Amount: 0.058274
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

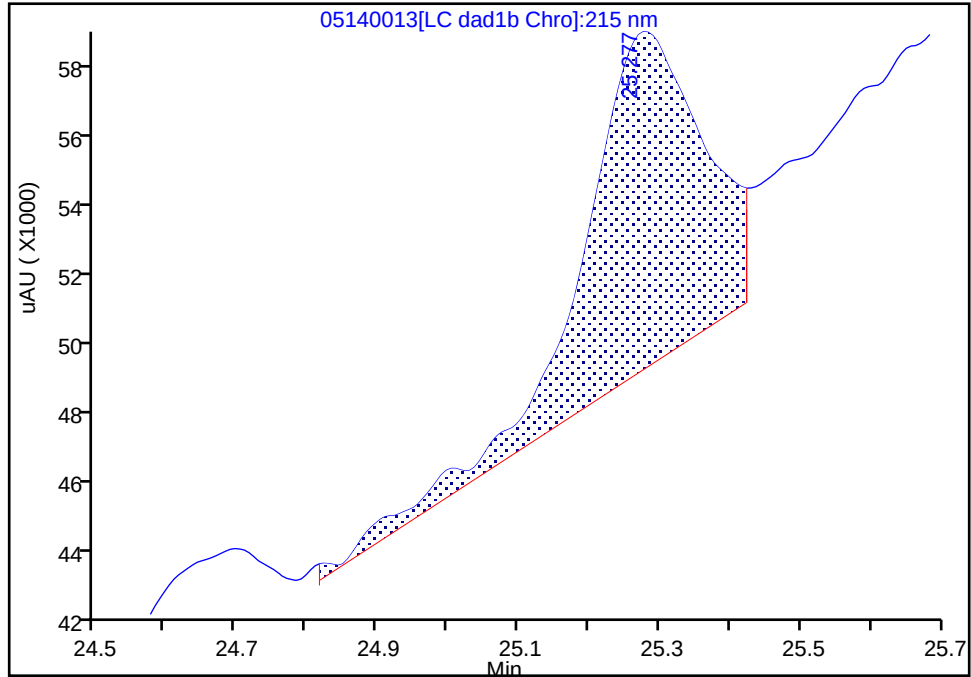
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d
Injection Date: 14-May-2020 19:46:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 3
Client ID:
Operator ID: CB ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Detector LC DAD1B, 215 nm

24 PETN, CAS: 78-11-5

Signal: 1

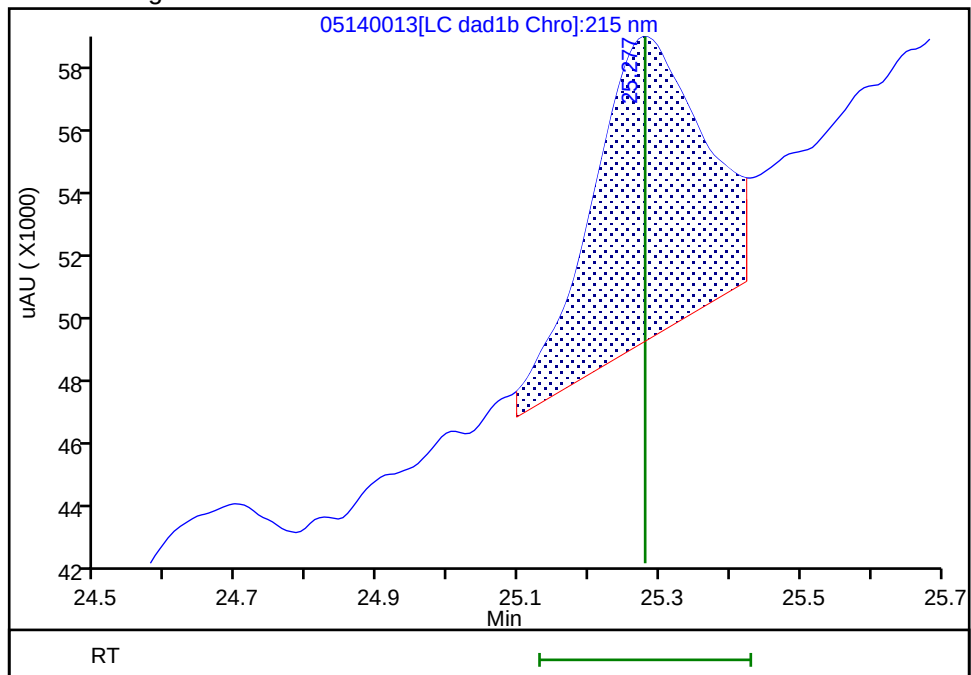
RT: 25.28
Area: 109947
Amount: 0.773174
Amount Units: ug/ml

Processing Integration Results



RT: 25.28
Area: 102120
Amount: 0.578199
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:24:48
Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140014.D
 Lims ID: IC FULL 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 14-May-2020 20:21:33 ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC FULL 2
 Misc. Info.: 280-0091518-014
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub6
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 15-May-2020 12:00:58 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0318

First Level Reviewer: zhangji

Date: 15-May-2020 11:22:32

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	4.375	4.366	0.009	10106	0.0200	0.0235	
2 2,4-diamino-6-nitrotoluene	1	4.855	4.880	-0.025	9147	0.0200	0.0152	
5 2,4,6-Trinitrophenol	1	6.322	6.300	0.022	5683	0.0250	0.0293	a
6 HMX	1	6.982	6.986	-0.004	10018	0.0250	0.0265	
8 RDX	1	9.095	9.173	-0.078	6286	0.0250	0.0257	
9 Nitrobenzene	1	12.095	12.106	-0.011	10325	0.0251	0.0235	
\$ 10 1,2-Dinitrobenzene	1	13.022	13.040	-0.018	8436	0.0250	0.0238	M
11 3,5-Dinitroaniline	1	14.862	14.886	-0.024	12305	0.0200	0.0197	
12 1,3-Dinitrobenzene	1	15.542	15.553	-0.011	16280	0.0251	0.0241	
13 Nitroglycerin	2	15.855	15.853	0.002	26546	0.2500	0.2093	
14 o-Nitrotoluene	1	16.515	16.533	-0.018	6812	0.0250	0.0250	
15 p-Nitrotoluene	1	16.795	16.820	-0.025	5374	0.0251	0.0223	
16 4-Amino-2,6-dinitrotoluene	1	17.155	17.146	0.009	9369	0.0250	0.0271	
17 m-Nitrotoluene	1	17.748	17.753	-0.005	6920	0.0250	0.0232	
18 2-Amino-4,6-dinitrotoluene	1	18.048	18.046	0.002	10376	0.0251	0.0223	
19 1,3,5-Trinitrobenzene	1	18.855	18.886	-0.031	10822	0.0251	0.0229	
20 2,6-Dinitrotoluene	1	19.828	19.806	0.022	11618	0.0251	0.0248	
21 2,4-Dinitrotoluene	1	20.295	20.293	0.002	16811	0.0251	0.0263	
22 Tetryl	1	23.529	23.553	-0.024	9874	0.0251	0.0268	
23 2,4,6-Trinitrotoluene	1	24.682	24.653	0.029	11547	0.0251	0.0209	
24 PETN	2	25.282	25.280	0.002	20453	0.2500	-0.0535	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8330IntermStk_00064

Amount Added: 2.50

Units: uL

8330_ADDs_00026

Amount Added: 1.00

Units: uL

Report Date: 15-May-2020 12:00:59

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140014.d

Injection Date: 14-May-2020 20:21:33

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC FULL 2

Worklist Smp#: 14

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

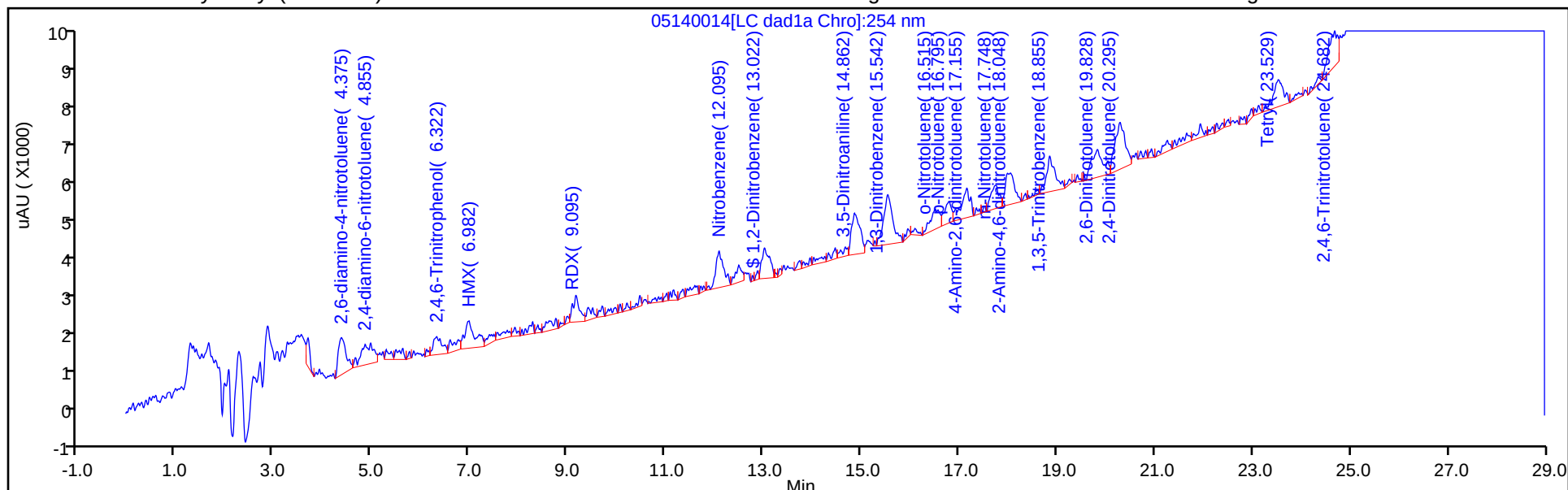
ALS Bottle#: 14

Method: G2_8330_Luna

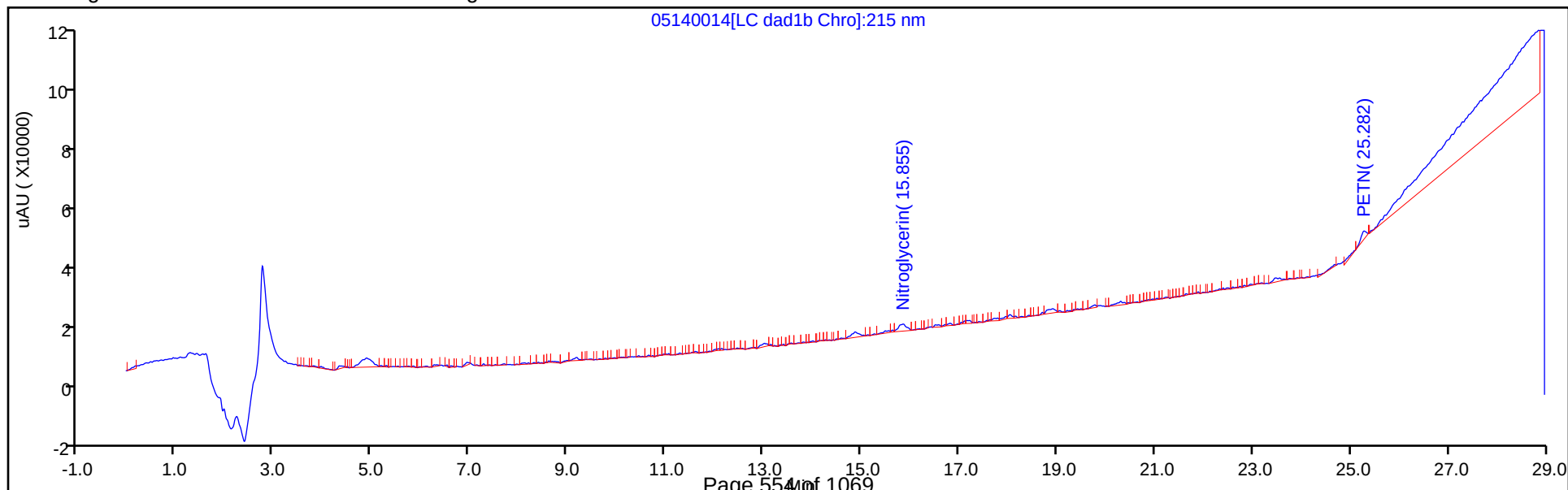
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver

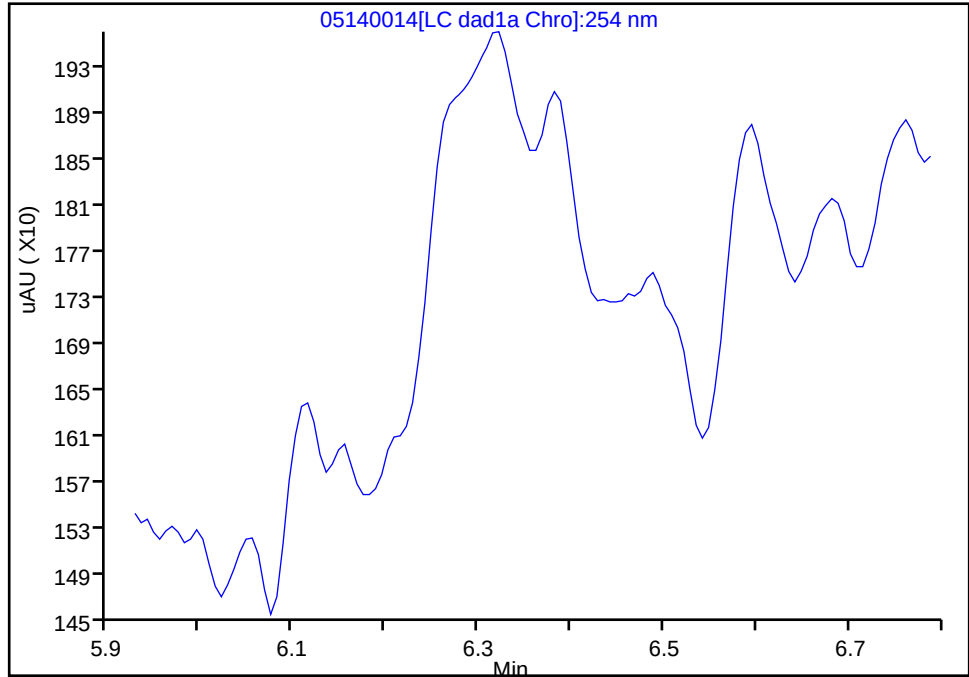
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140014.d
Injection Date: 14-May-2020 20:21:33 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 2
Client ID:
Operator ID: CB ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

5 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

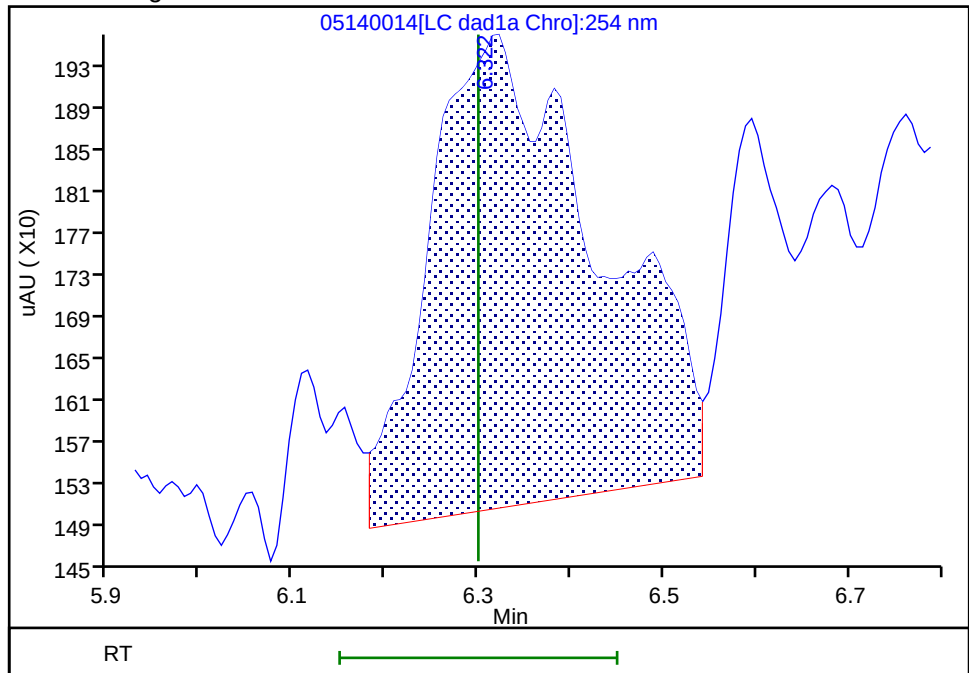
Not Detected
Expected RT: 6.30

Processing Integration Results



RT: 6.32
Area: 5683
Amount: 0.029323
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:22:29
Audit Action: Assigned Compound ID

Audit Reason:
Page 555 of 1069

Eurofins TestAmerica, Denver

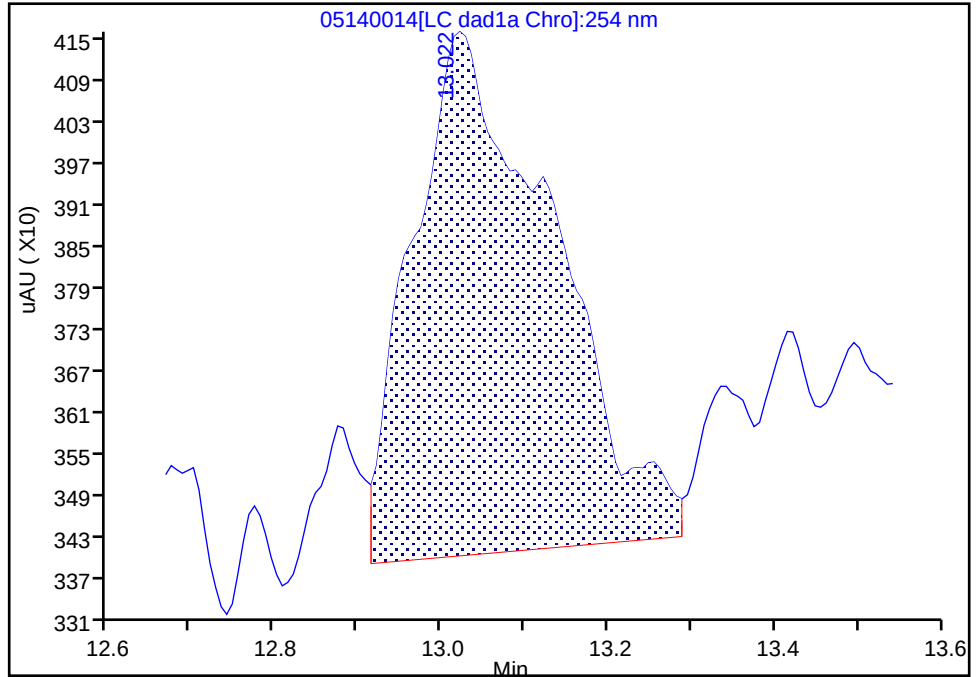
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140014.d
Injection Date: 14-May-2020 20:21:33 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 2
Client ID:
Operator ID: CB ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

\$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

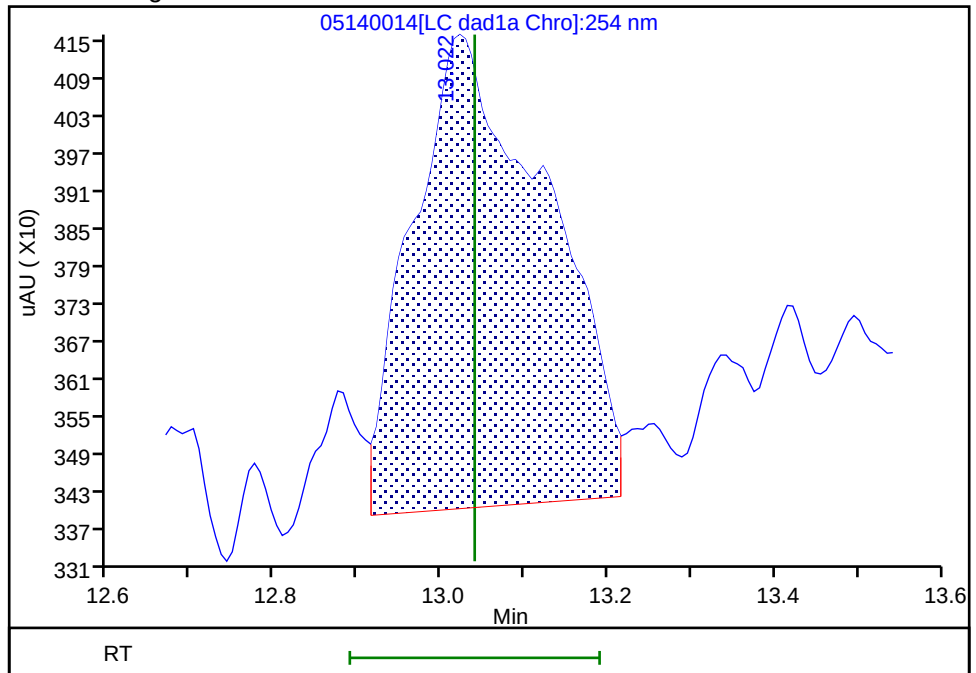
RT: 13.02
Area: 8831
Amount: 0.029561
Amount Units: ug/ml

Processing Integration Results



RT: 13.02
Area: 8436
Amount: 0.023796
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:35:34
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins TestAmerica, Denver

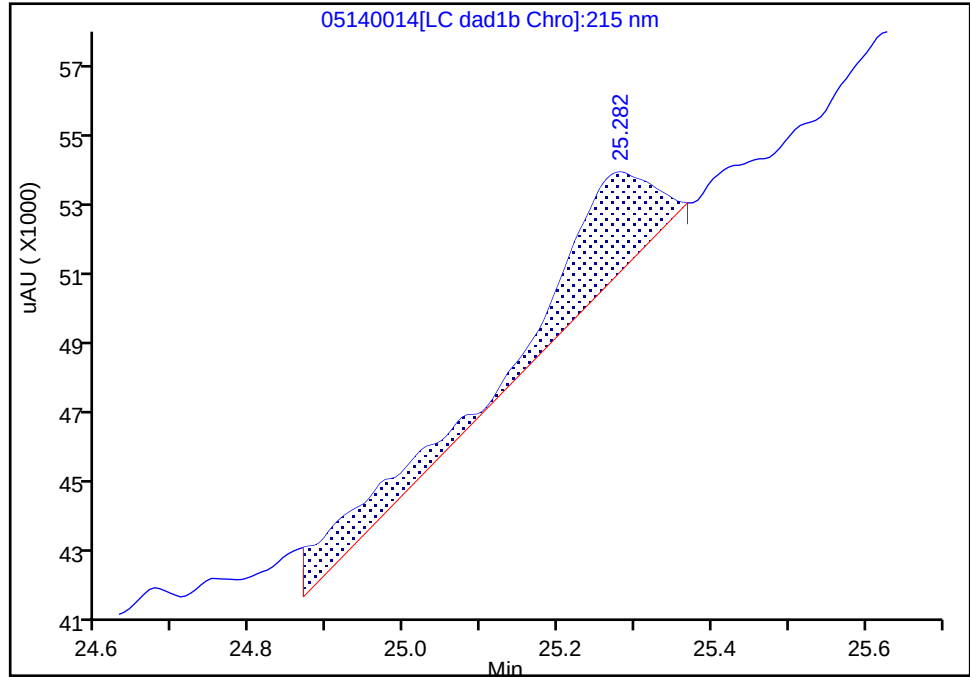
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140014.d
Injection Date: 14-May-2020 20:21:33 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 2
Client ID:
Operator ID: CB ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Detector LC DAD1B, 215 nm

24 PETN, CAS: 78-11-5

Signal: 1

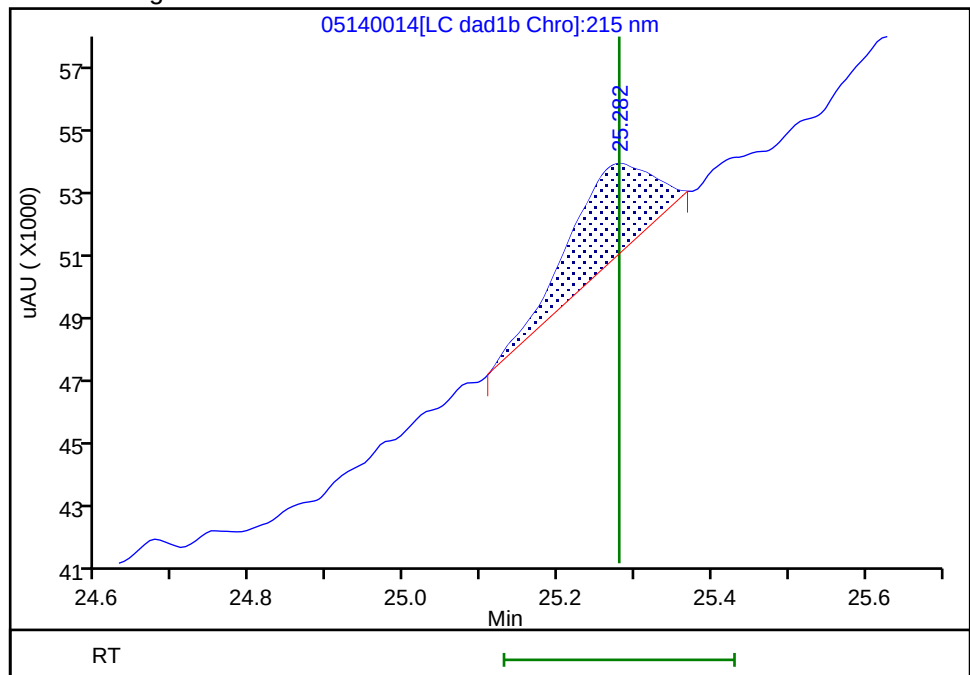
RT: 25.28
Area: 31007
Amount: 0.129673
Amount Units: ug/ml

Processing Integration Results



RT: 25.28
Area: 20453
Amount: -0.053470
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:24:34

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140015.D
 Lims ID: IC FULL 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 14-May-2020 20:56:30 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC FULL 1
 Misc. Info.: 280-0091518-015
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub6
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 15-May-2020 12:00:59 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0318

First Level Reviewer: zhangji

Date: 15-May-2020 11:24:04

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		4.366			ND	ND	U
2 2,4-diamino-6-nitrotoluene	1		4.880			ND	ND	U
5 2,4,6-Trinitrophenol	1		6.300			ND	ND	U
6 HMX	1		6.986			ND	ND	U
8 RDX	1		9.173			ND	ND	U
9 Nitrobenzene	1		12.106			ND	ND	U
\$ 10 1,2-Dinitrobenzene	1		13.040			ND	ND	U
11 3,5-Dinitroaniline	1		14.886			ND	ND	U
12 1,3-Dinitrobenzene	1		15.553			ND	ND	U
13 Nitroglycerin	2		15.853			ND	ND	U
14 o-Nitrotoluene	1		16.533			ND	ND	U
15 p-Nitrotoluene	1		16.820			ND	ND	U
16 4-Amino-2,6-dinitrotoluene	1		17.146			ND	ND	U
17 m-Nitrotoluene	1		17.753			ND	ND	U
18 2-Amino-4,6-dinitrotoluene	1		18.046			ND	ND	U
19 1,3,5-Trinitrobenzene	1		18.886			ND	ND	U
20 2,6-Dinitrotoluene	1	19.755	19.806	-0.051	4758	0.0126	0.001113	M
21 2,4-Dinitrotoluene	1	20.295	20.293	0.002	7990	0.0126	0.0125	M
22 Tetryl	1		23.553			ND	ND	U
23 2,4,6-Trinitrotoluene	1		24.653			ND	ND	U
24 PETN	2		25.280			ND	ND	U

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

8330IntermStk_00064

Amount Added: 1.25

Units: uL

8330_ADDs_00026

Amount Added: 0.50

Units: uL

Report Date: 15-May-2020 12:00:59

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140015.d

Injection Date: 14-May-2020 20:56:30

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC FULL 1

Worklist Smp#: 15

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

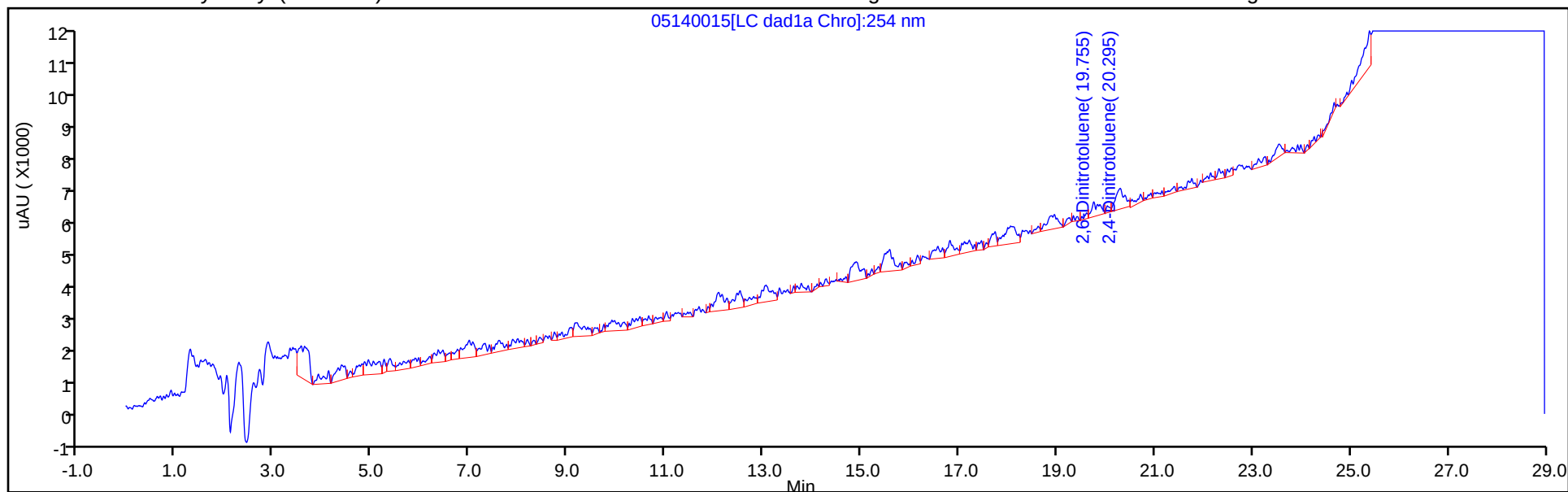
ALS Bottle#: 15

Method: G2_8330_Luna

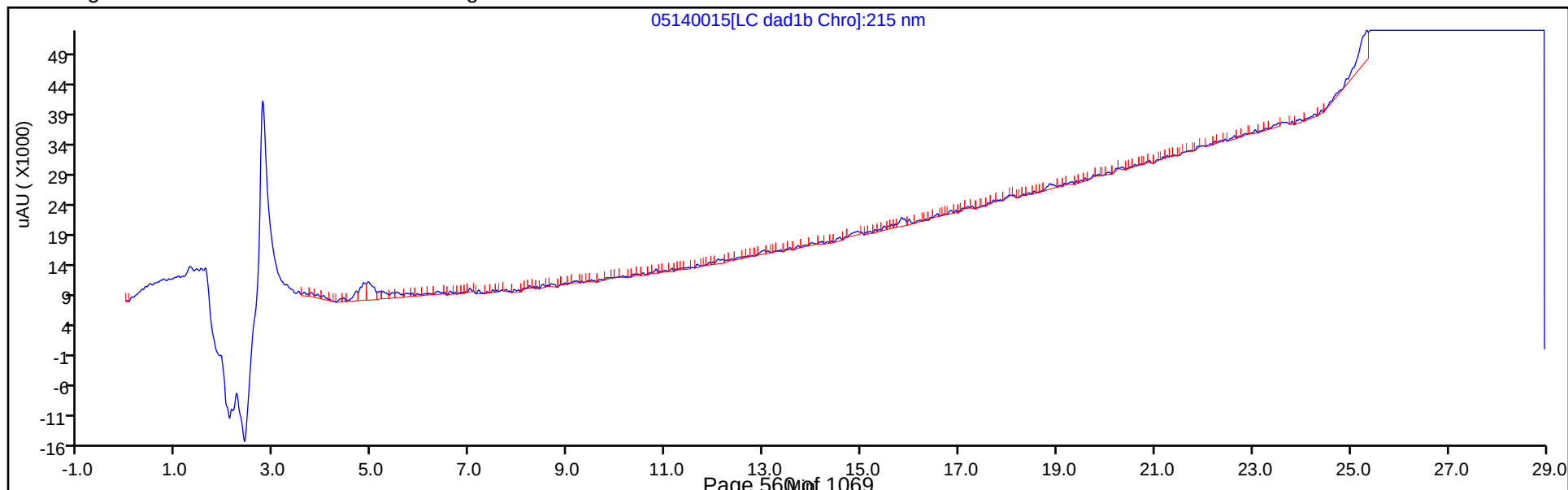
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver

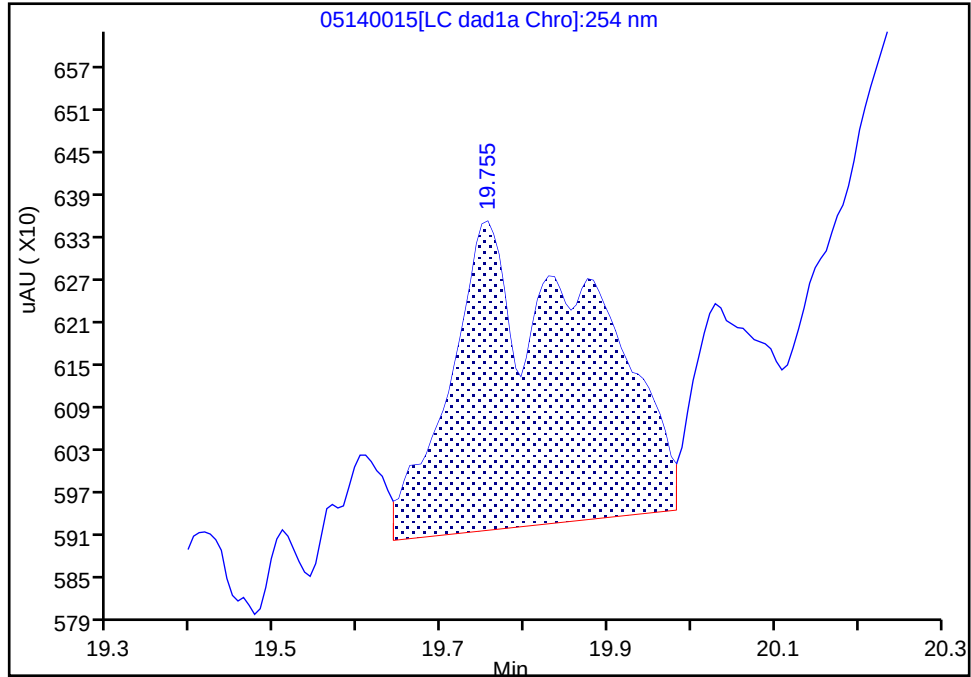
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140015.d
Injection Date: 14-May-2020 20:56:30 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 1
Client ID:
Operator ID: CB ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

20 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

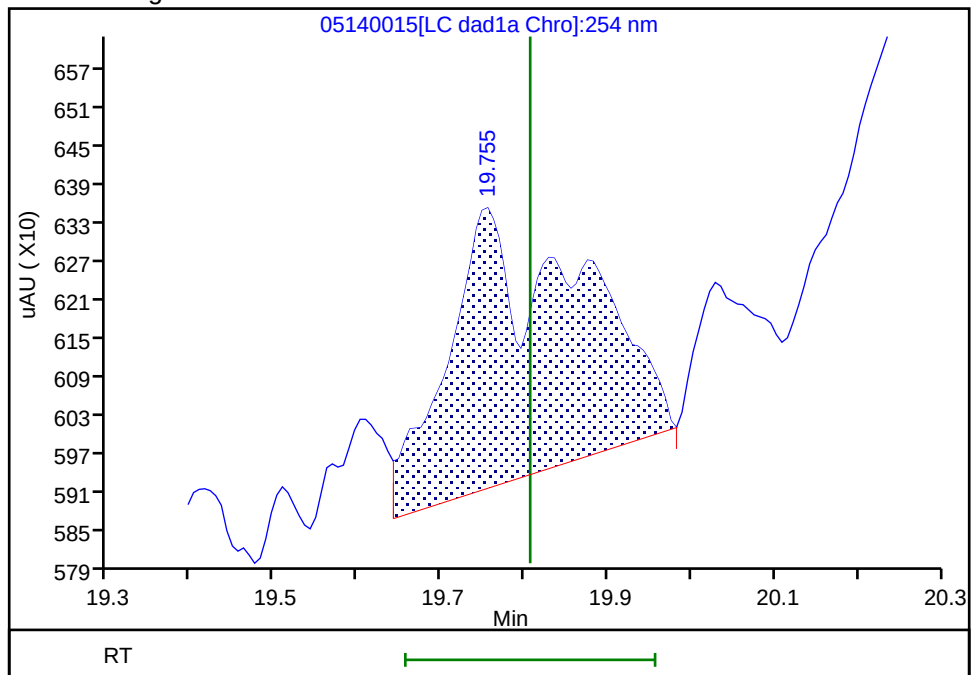
RT: 19.76
Area: 5064
Amount: 0.014857
Amount Units: ug/ml

Processing Integration Results



RT: 19.76
Area: 4758
Amount: 0.001113
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:30:41
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

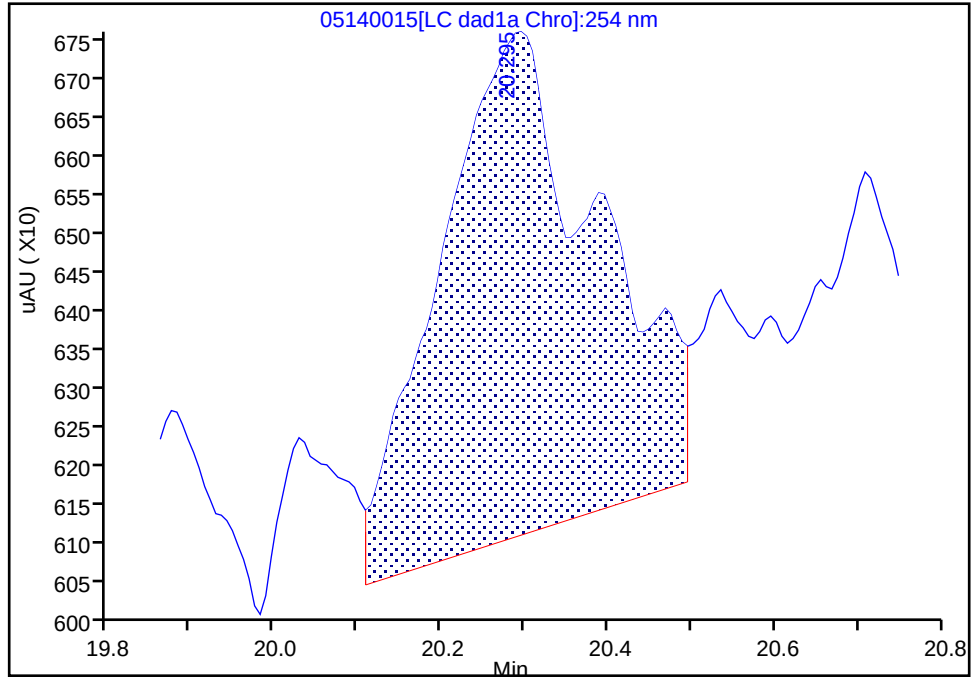
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140015.d
Injection Date: 14-May-2020 20:56:30 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 1
Client ID:
Operator ID: CB ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

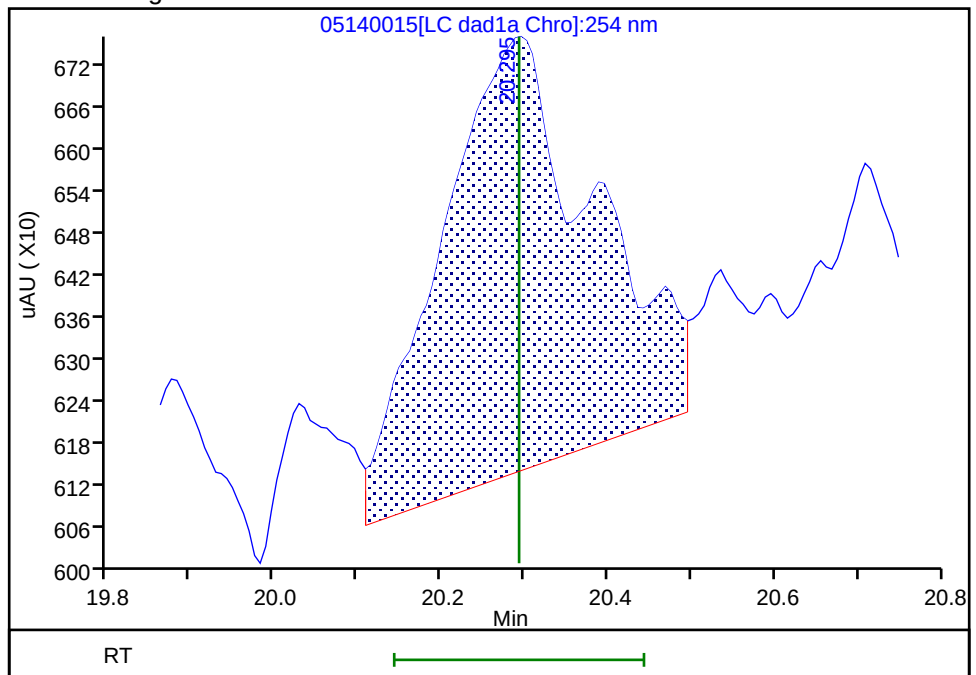
RT: 20.30
Area: 8698
Amount: 0.013456
Amount Units: ug/ml

Processing Integration Results



RT: 20.30
Area: 7990
Amount: 0.012482
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:30:41
Audit Action: Assigned New Baseline

Audit Reason: Baseline

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1 Analy Batch No.: 494886

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 22:06 Calibration End Date: 05/15/2020 02:46 Calibration ID: 44235

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-494886/24	05140024.D
Level 2	IC 280-494886/23	05140023.D
Level 3	IC 280-494886/22	05140022.D
Level 4	IC 280-494886/21	05140021.D
Level 5	IC 280-494886/20	05140020.D
Level 6	IC 280-494886/19	05140019.D
Level 7	IC 280-494886/18	05140018.D
Level 8	IC 280-494886/17	05140017.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
TNX	5.430	5.411	5.420	5.417	5.419	5.416	5.408	5.395			5.267 - 5.567	5.415
DNX	6.217	6.224	6.226	6.231	6.226	6.223	6.214	6.202			6.081 - 6.381	6.220
MNX	7.737	7.744	7.740	7.744	7.739	7.736	7.728	7.709			7.594 - 7.894	7.735

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1 Analy Batch No.: 494886

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 22:06 Calibration End Date: 05/15/2020 02:46 Calibration ID: 44235

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-494886/24	05140024.D
Level 2	IC 280-494886/23	05140023.D
Level 3	IC 280-494886/22	05140022.D
Level 4	IC 280-494886/21	05140021.D
Level 5	IC 280-494886/20	05140020.D
Level 6	IC 280-494886/19	05140019.D
Level 7	IC 280-494886/18	05140018.D
Level 8	IC 280-494886/17	05140017.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	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	552048 411823	425974 414575	452338 409749	404831 415188	Ave		435815.884				11.3		20.0			
DNX	380619 318914	320939 302202	322807 308244	308000 307920	Ave		321205.643				7.8		20.0			
MNX	510454 287059	337087 281216	295227 270908	285954 281272	Lin2	5408.61434	266896.431							0.9970		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1 Analy Batch No.: 494886

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 22:06 Calibration End Date: 05/15/2020 02:46 Calibration ID: 44235

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-494886/24	05140024.D
Level 2	IC 280-494886/23	05140023.D
Level 3	IC 280-494886/22	05140022.D
Level 4	IC 280-494886/21	05140021.D
Level 5	IC 280-494886/20	05140020.D
Level 6	IC 280-494886/19	05140019.D
Level 7	IC 280-494886/18	05140018.D
Level 8	IC 280-494886/17	05140017.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	11052 290493	21320 410159	45279 1039009	101309	164894	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250	0.400
DNX	Ave	7620 211753	16063 308552	32313 770570	77077	127693	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250	0.400
MNX	Lin2	11914 229725	19669 316150	34453 820612	83427	133999	0.0233 0.817	0.0584 1.17	0.117 2.92	0.292	0.467

Curve Type Legend:

Ave = Average
Lin2 = Linear 1/conc^2

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140017.D
 Lims ID: IC DMT 9
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 14-May-2020 22:06:26 ALS Bottle#: 17 Worklist Smp#: 17
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC DMT 9
 Misc. Info.: 280-0091518-017
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub13
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 15-May-2020 12:01:02 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0318

First Level Reviewer: zhangji

Date: 15-May-2020 11:36:21

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.395	5.417	-0.022	1039009	2.50	2.38	
4 DNX	1	6.202	6.231	-0.029	770570	2.50	2.40	
7 MNX	1	7.709	7.744	-0.035	820612	2.92	3.05	a

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8330 DMT_00006

Amount Added: 125.00

Units: uL

Report Date: 15-May-2020 12:01:02

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140017.d

Injection Date: 14-May-2020 22:06:26

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC DMT 9

Worklist Smp#: 17

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

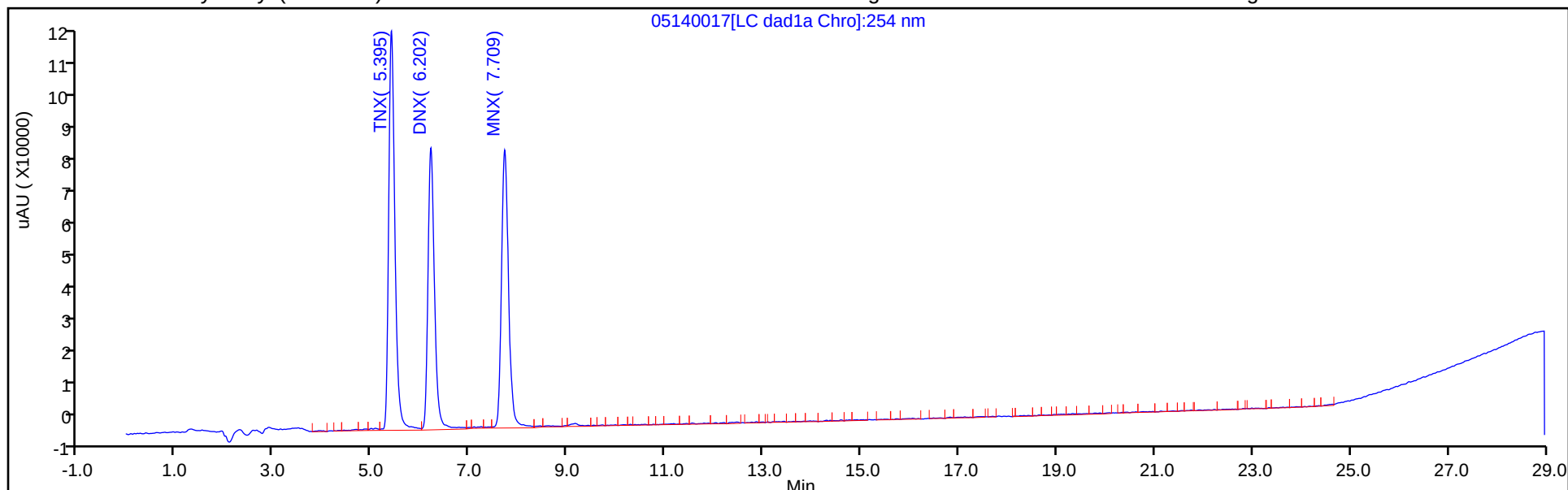
ALS Bottle#: 17

Method: G2_8330_Luna

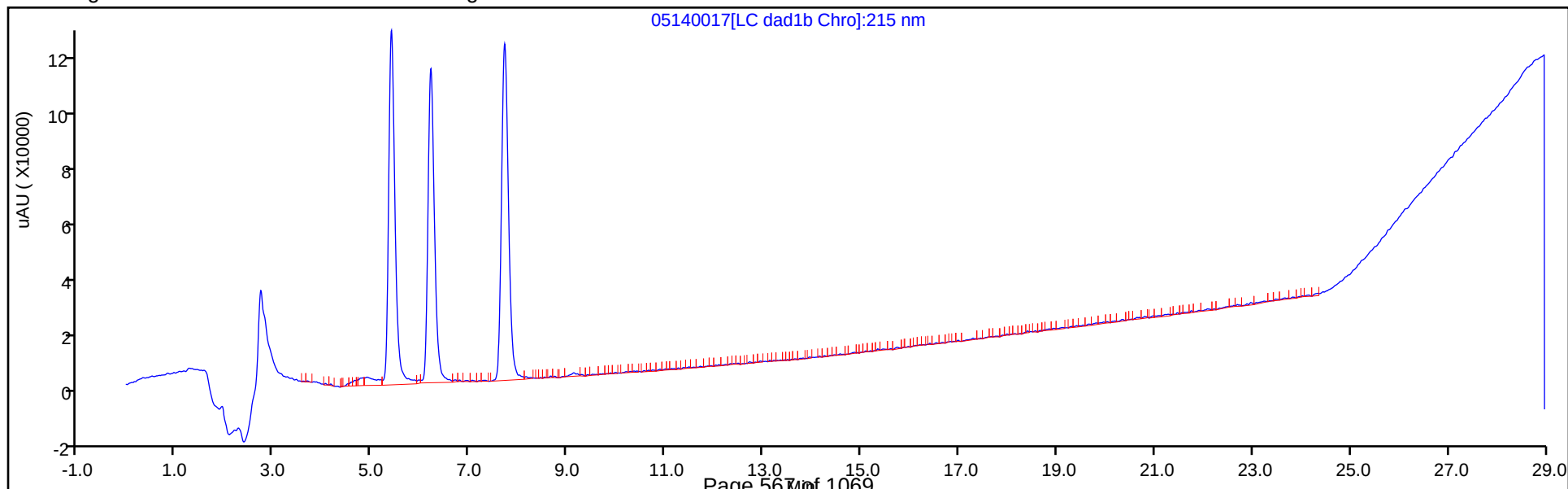
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver

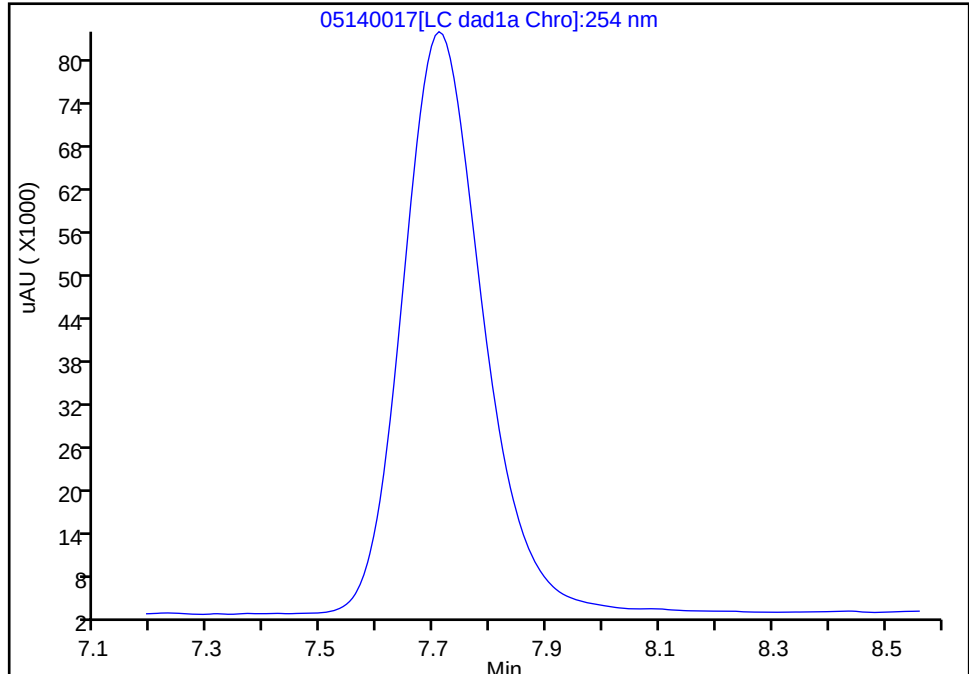
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140017.d
Injection Date: 14-May-2020 22:06:26 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC DMT 9
Client ID:
Operator ID: CB ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

7 MNX, CAS: 5755-27-1

Signal: 1

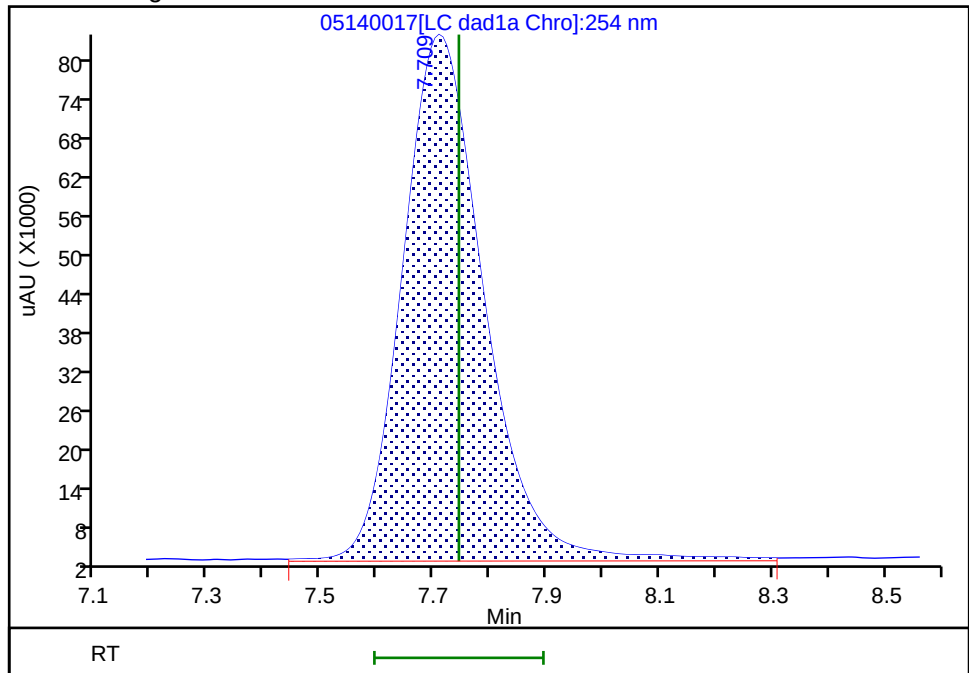
Not Detected
Expected RT: 7.74

Processing Integration Results



RT: 7.71
Area: 820612
Amount: 3.054381
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:36:42
Audit Action: Assigned Compound ID

Audit Reason:

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140018.D
 Lims ID: IC DMT 8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 14-May-2020 22:41:23 ALS Bottle#: 18 Worklist Smp#: 18
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC DMT 8
 Misc. Info.: 280-0091518-018
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub13
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 15-May-2020 12:01:02 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0318

First Level Reviewer: zhangji

Date: 15-May-2020 11:36:48

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.408	5.417	-0.009	410159	1.00	0.9411	
4 DNX	1	6.214	6.231	-0.017	308552	1.00	0.9606	
7 MNX	1	7.728	7.744	-0.016	316150	1.17	1.16	a

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8330 DMT_00006

Amount Added: 50.00

Units: uL

Report Date: 15-May-2020 12:01:03

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140018.d

Injection Date: 14-May-2020 22:41:23

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC DMT 8

Worklist Smp#: 18

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

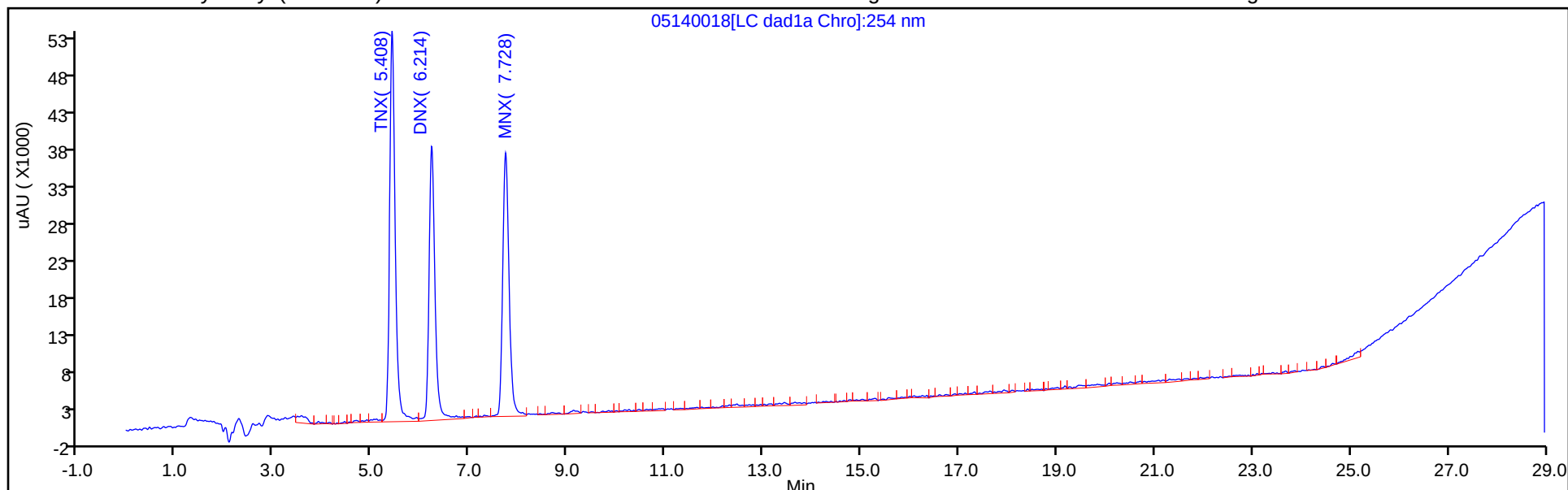
ALS Bottle#: 18

Method: G2_8330_Luna

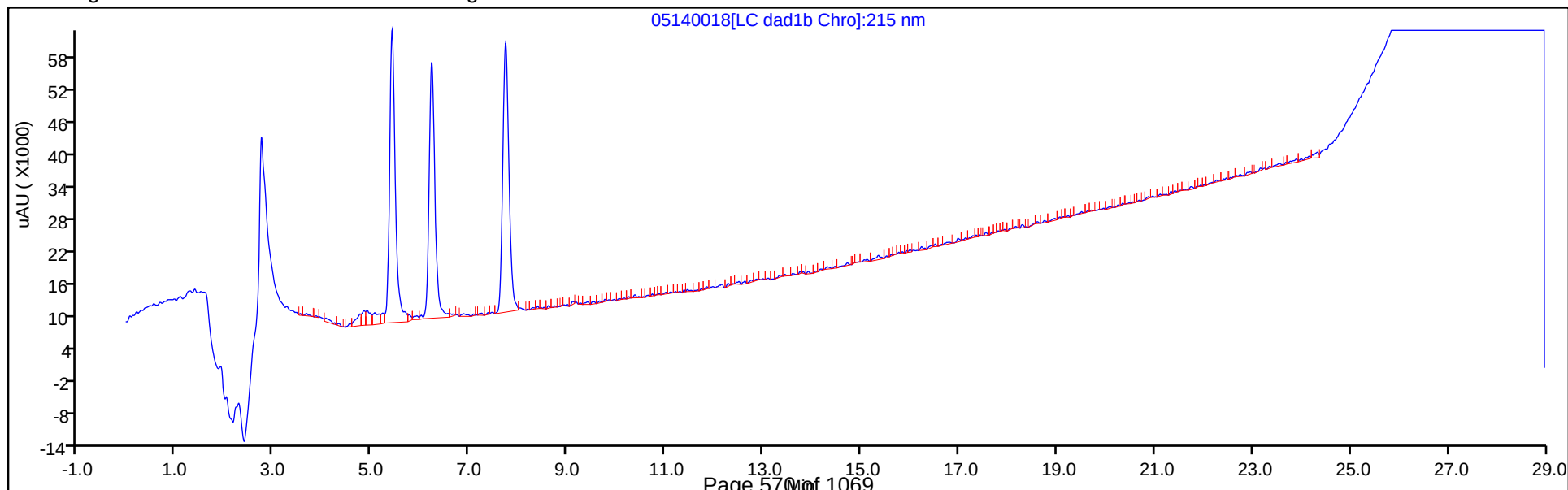
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver

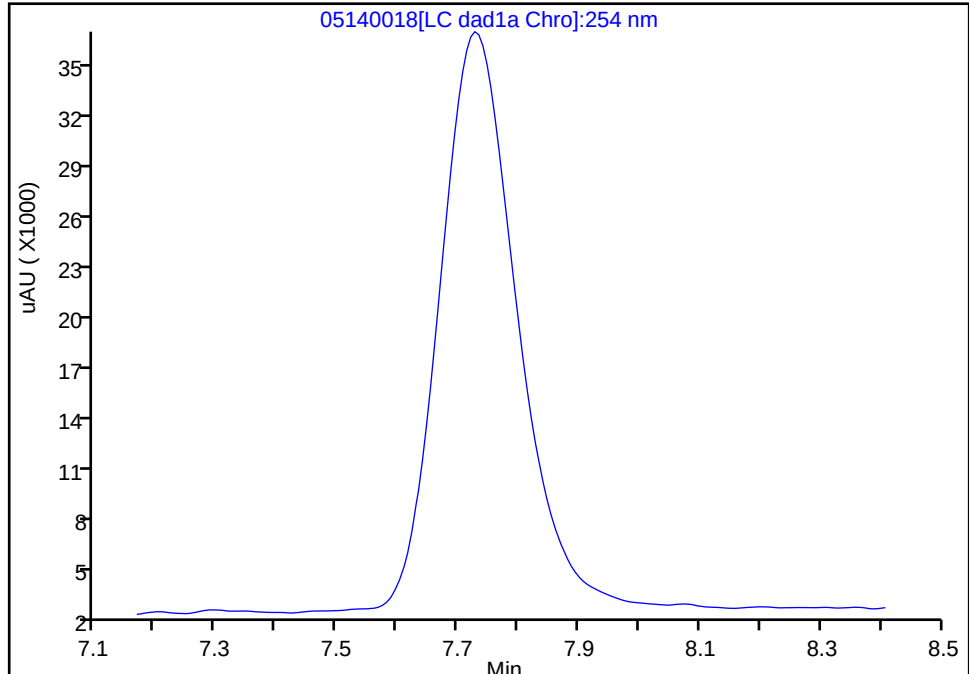
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140018.d
Injection Date: 14-May-2020 22:41:23 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC DMT 8
Client ID:
Operator ID: CB ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

7 MNX, CAS: 5755-27-1

Signal: 1

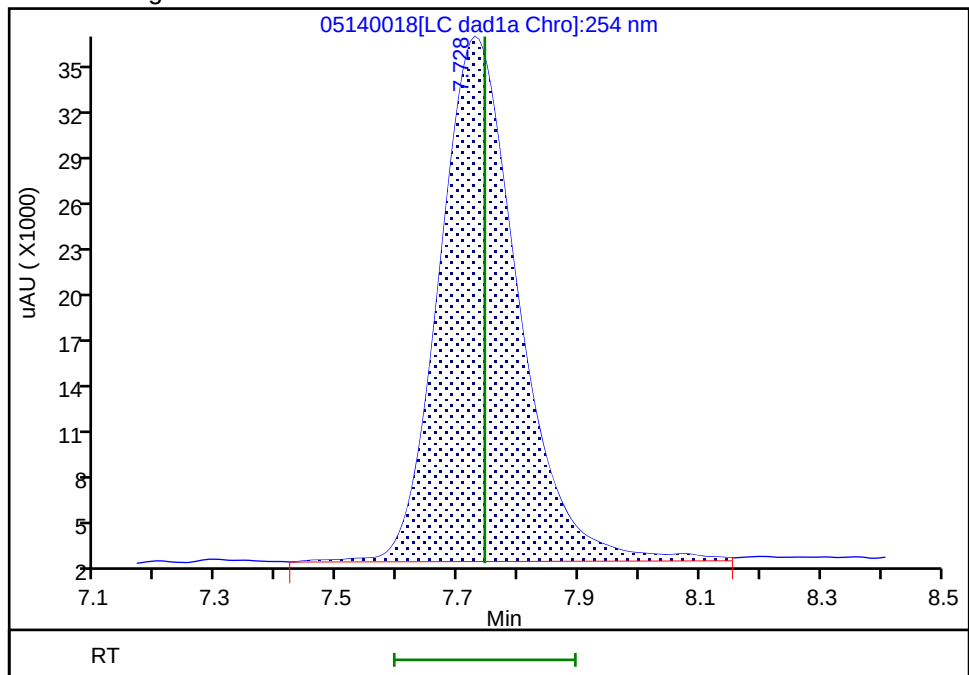
Not Detected
Expected RT: 7.74

Processing Integration Results



RT: 7.73
Area: 316150
Amount: 1.164277
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:36:46
Audit Action: Assigned Compound ID

Audit Reason:

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140019.D
 Lims ID: IC DMT 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 14-May-2020 23:16:26 ALS Bottle#: 19 Worklist Smp#: 19
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC DMT 7
 Misc. Info.: 280-0091518-019
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub13
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 15-May-2020 12:01:03 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0318

First Level Reviewer: zhangji

Date: 15-May-2020 11:36:56

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.416	5.417	-0.001	290493	0.7007	0.6665	
4 DNX	1	6.223	6.231	-0.008	211753	0.7007	0.6592	
7 MNX	1	7.736	7.744	-0.008	229725	0.8169	0.8405	a

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8330 DMT_00006

Amount Added: 35.00

Units: uL

Report Date: 15-May-2020 12:01:03

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140019.d

Injection Date: 14-May-2020 23:16:26

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC DMT 7

Worklist Smp#: 19

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

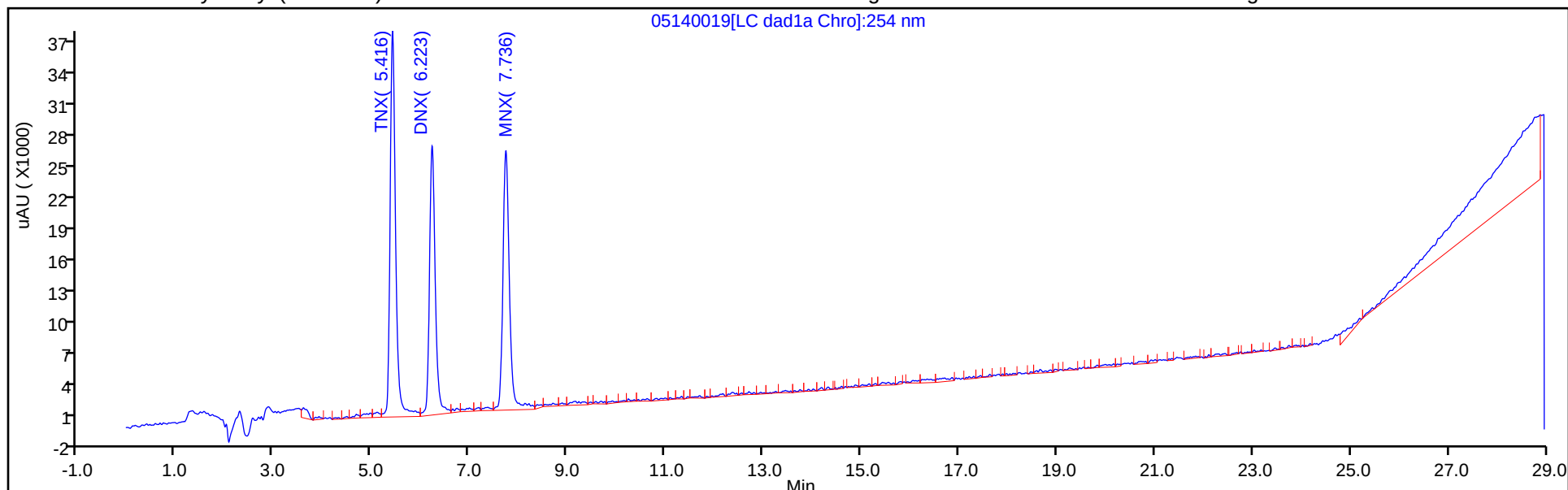
ALS Bottle#: 19

Method: G2_8330_Luna

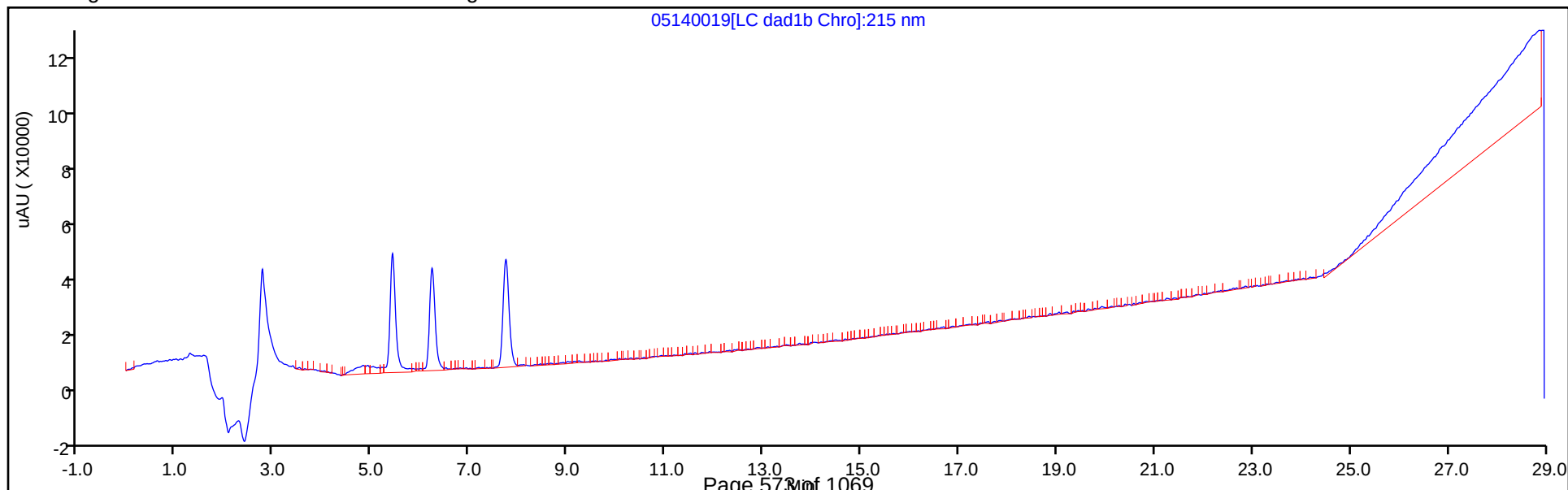
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver

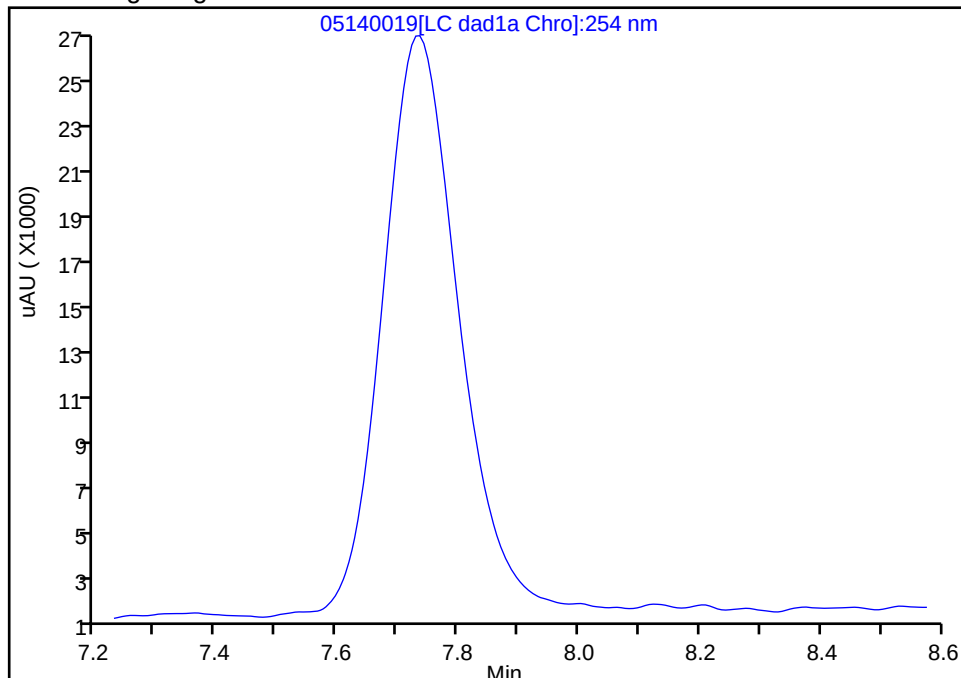
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140019.d
Injection Date: 14-May-2020 23:16:26 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC DMT 7
Client ID:
Operator ID: CB ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

7 MNX, CAS: 5755-27-1

Signal: 1

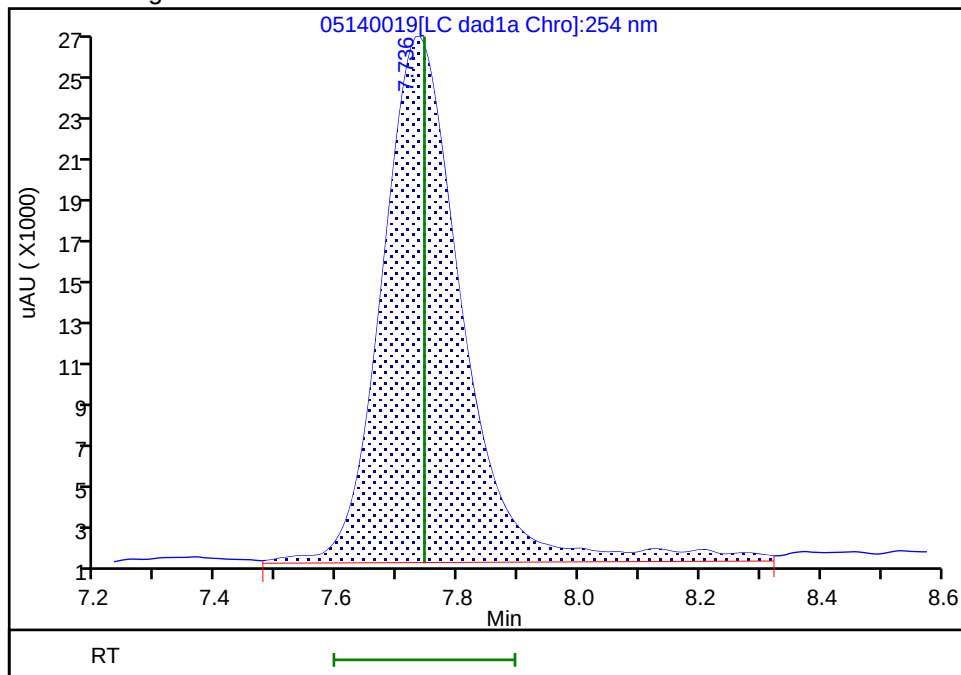
Not Detected
Expected RT: 7.74

Processing Integration Results



RT: 7.74
Area: 229725
Amount: 0.840462
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:36:55

Audit Action: Assigned Compound ID

Audit Reason:

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140020.D
 Lims ID: IC DMT 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 14-May-2020 23:51:28 ALS Bottle#: 20 Worklist Smp#: 20
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC DMT 6
 Misc. Info.: 280-0091518-020
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub13
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 15-May-2020 12:01:03 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0318

First Level Reviewer: zhangji

Date: 15-May-2020 11:37:01

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.419	5.417	0.002	164894	0.4004	0.3784	
4 DNX	1	6.226	6.231	-0.005	127693	0.4004	0.3975	
7 MNX	1	7.739	7.744	-0.005	133999	0.4668	0.4818	a

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8330 DMT_00006

Amount Added: 20.00

Units: uL

Report Date: 15-May-2020 12:01:04

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140020.d

Injection Date: 14-May-2020 23:51:28

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC DMT 6

Worklist Smp#: 20

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

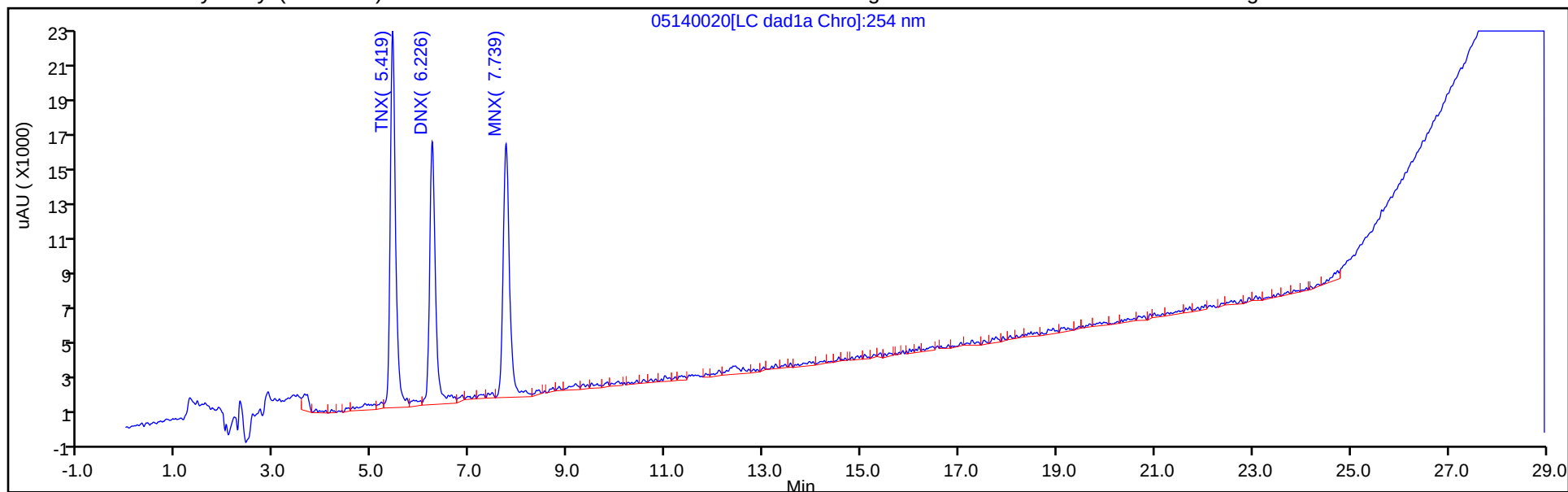
ALS Bottle#: 20

Method: G2_8330_Luna

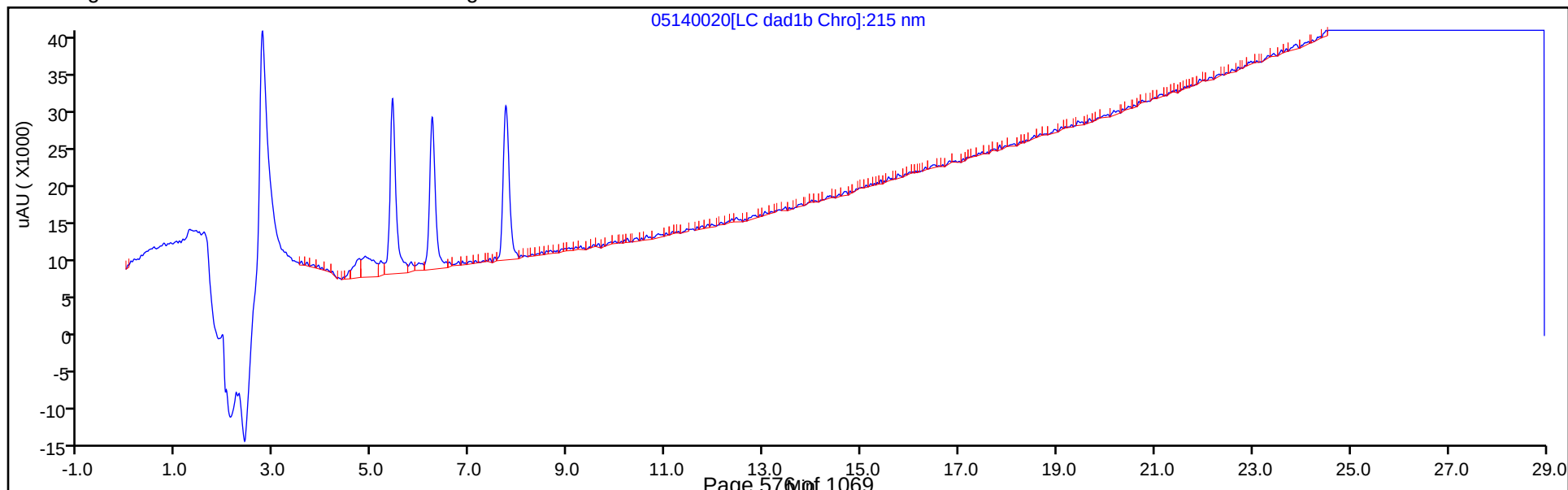
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver

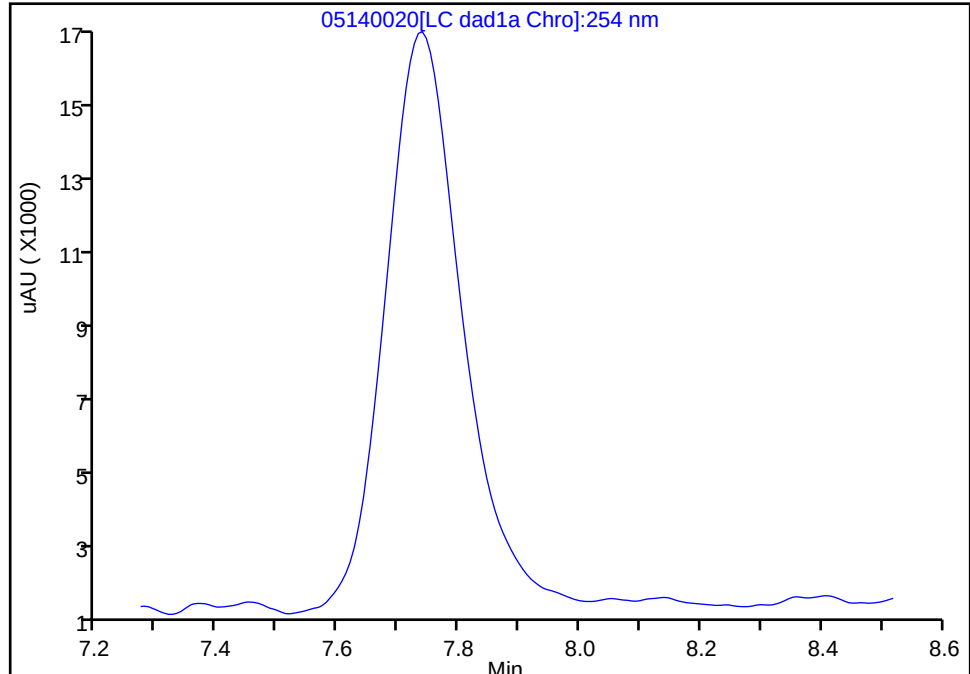
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140020.d
Injection Date: 14-May-2020 23:51:28 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC DMT 6
Client ID:
Operator ID: CB ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

7 MNX, CAS: 5755-27-1

Signal: 1

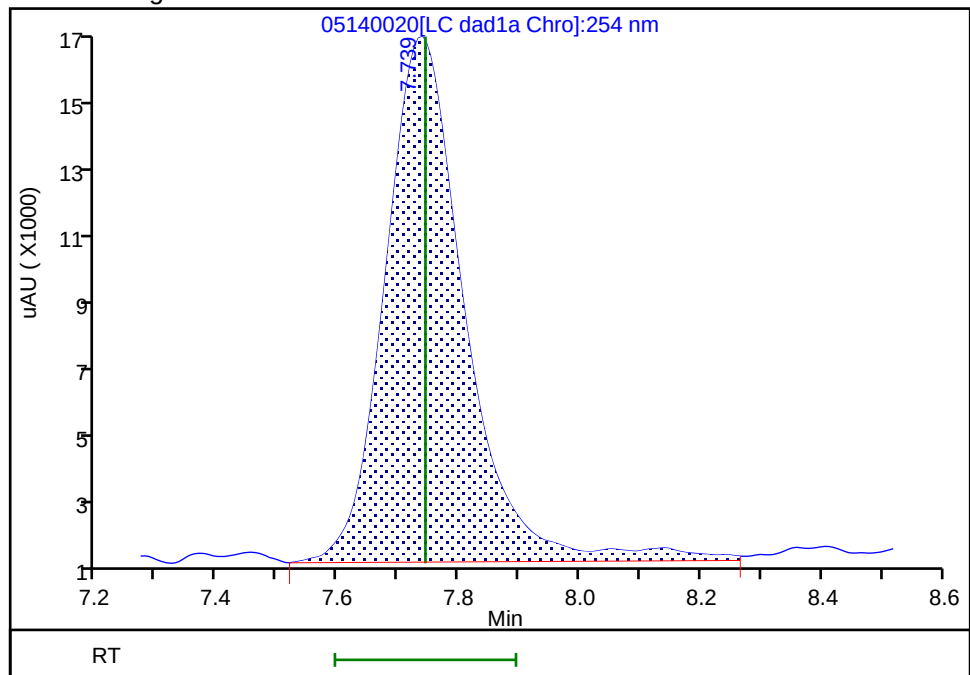
Not Detected
Expected RT: 7.74

Processing Integration Results



RT: 7.74
Area: 133999
Amount: 0.481799
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:36:59
Audit Action: Assigned Compound ID

Audit Reason:

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140021.D
 Lims ID: IC DMT 5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 15-May-2020 00:26:25 ALS Bottle#: 21 Worklist Smp#: 21
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC DMT 5
 Misc. Info.: 280-0091518-021
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub13
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 15-May-2020 12:01:04 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0318

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.417	5.417	0.000	101309	0.2503	0.2325	
4 DNX	1	6.231	6.231	0.000	77077	0.2503	0.2400	
7 MNX	1	7.744	7.744	0.000	83427	0.2918	0.2923	

Reagents:

8330 DMT_00006

Amount Added: 12.50

Units: uL

Report Date: 15-May-2020 12:01:04

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140021.d

Injection Date: 15-May-2020 00:26:25

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC DMT 5

Worklist Smp#: 21

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

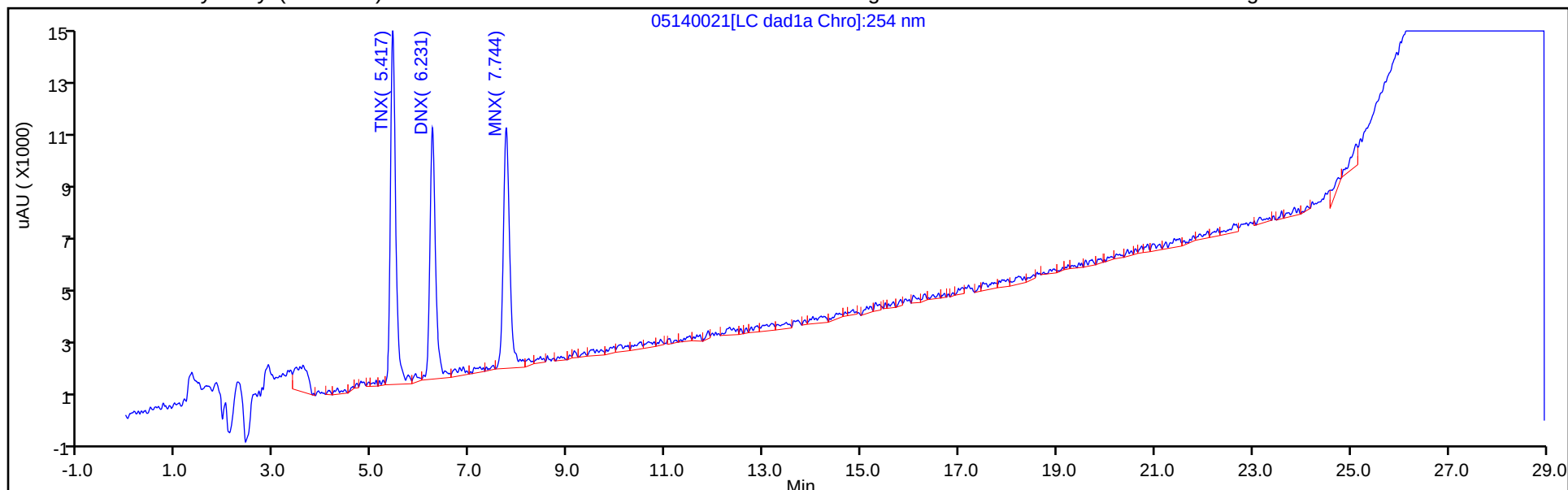
ALS Bottle#: 21

Method: G2_8330_Luna

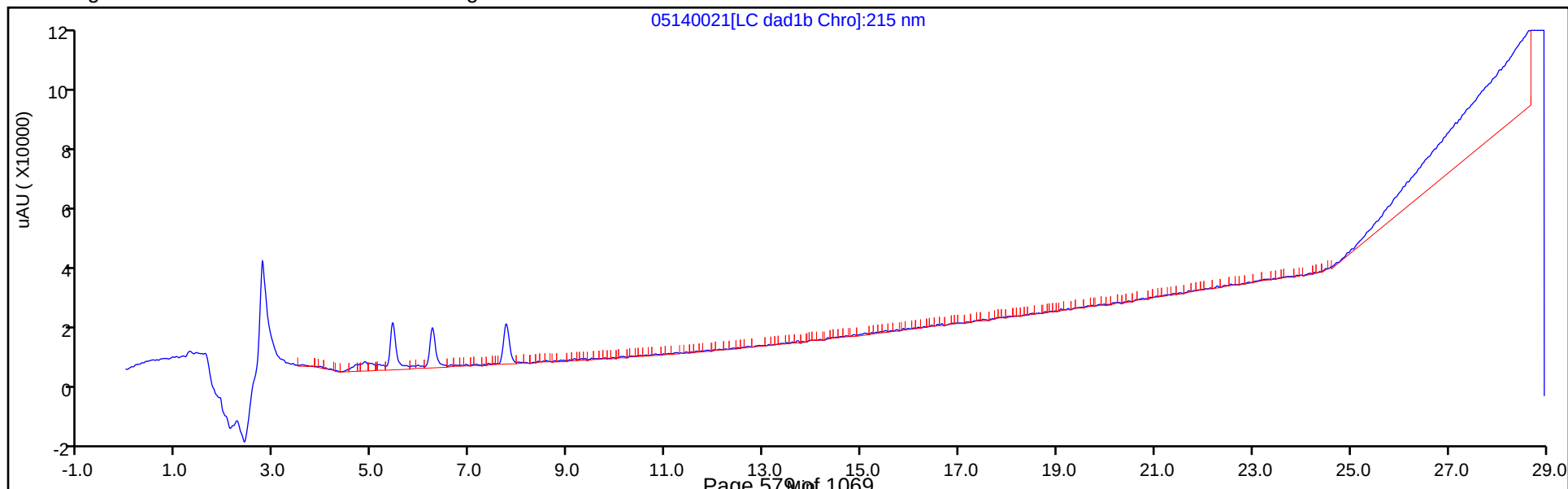
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140022.D
 Lims ID: IC DMT 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 15-May-2020 01:01:25 ALS Bottle#: 22 Worklist Smp#: 22
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC DMT 4
 Misc. Info.: 280-0091518-022
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub13
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 15-May-2020 12:01:04 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0318

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.420	5.417	0.003	45279	0.1001	0.1039	
4 DNX	1	6.226	6.231	-0.005	32313	0.1001	0.1006	
7 MNX	1	7.740	7.744	-0.004	34453	0.1167	0.1088	

Reagents:

8330 DMT_00006

Amount Added: 5.00

Units: uL

Report Date: 15-May-2020 12:01:04

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140022.d

Injection Date: 15-May-2020 01:01:25

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC DMT 4

Worklist Smp#: 22

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

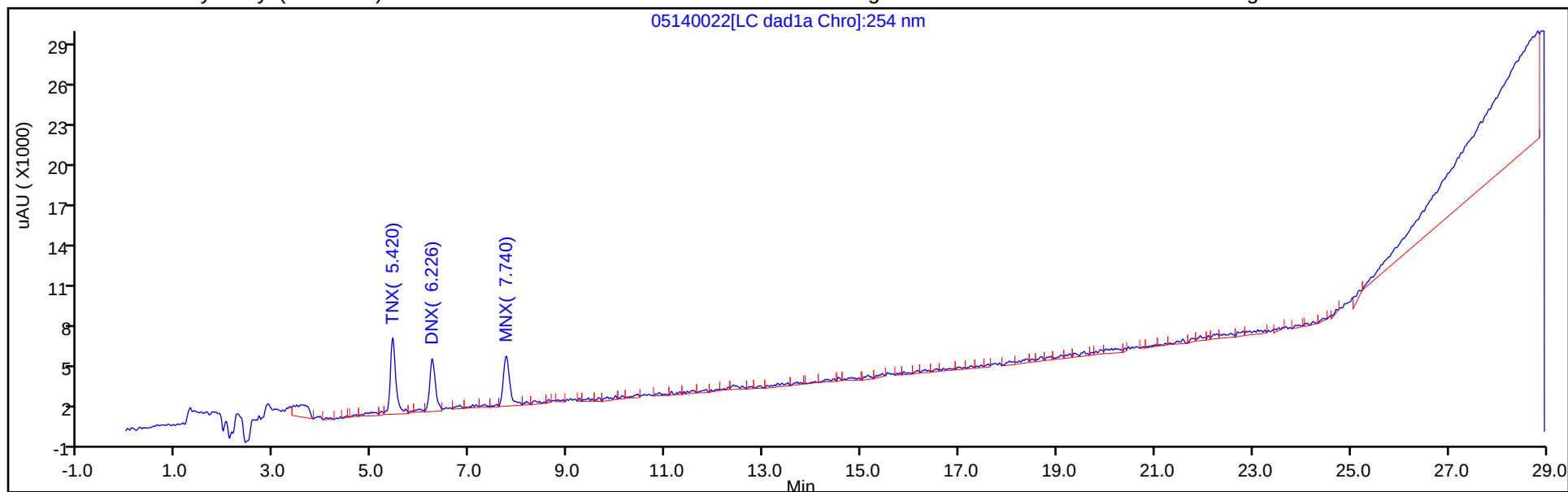
ALS Bottle#: 22

Method: G2_8330_Luna

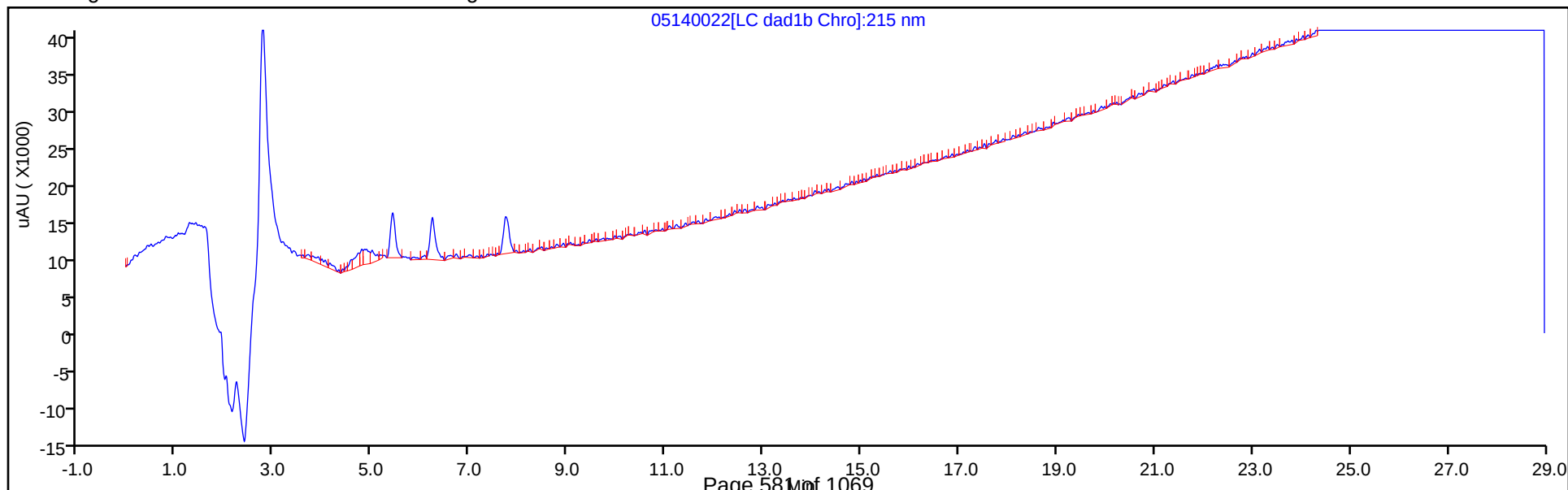
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140023.D
 Lims ID: IC DMT 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 15-May-2020 01:36:23 ALS Bottle#: 23 Worklist Smp#: 23
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC DMT 3
 Misc. Info.: 280-0091518-023
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub13
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 15-May-2020 12:01:05 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0318

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.411	5.417	-0.006	21320	0.0501	0.0489	
4 DNX	1	6.224	6.231	-0.007	16063	0.0501	0.0500	
7 MNX	1	7.744	7.744	0.000	19669	0.0584	0.0534	

Reagents:

8330 DMT_00006

Amount Added: 2.50

Units: uL

Report Date: 15-May-2020 12:01:05

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140023.d

Injection Date: 15-May-2020 01:36:23

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC DMT 3

Worklist Smp#: 23

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

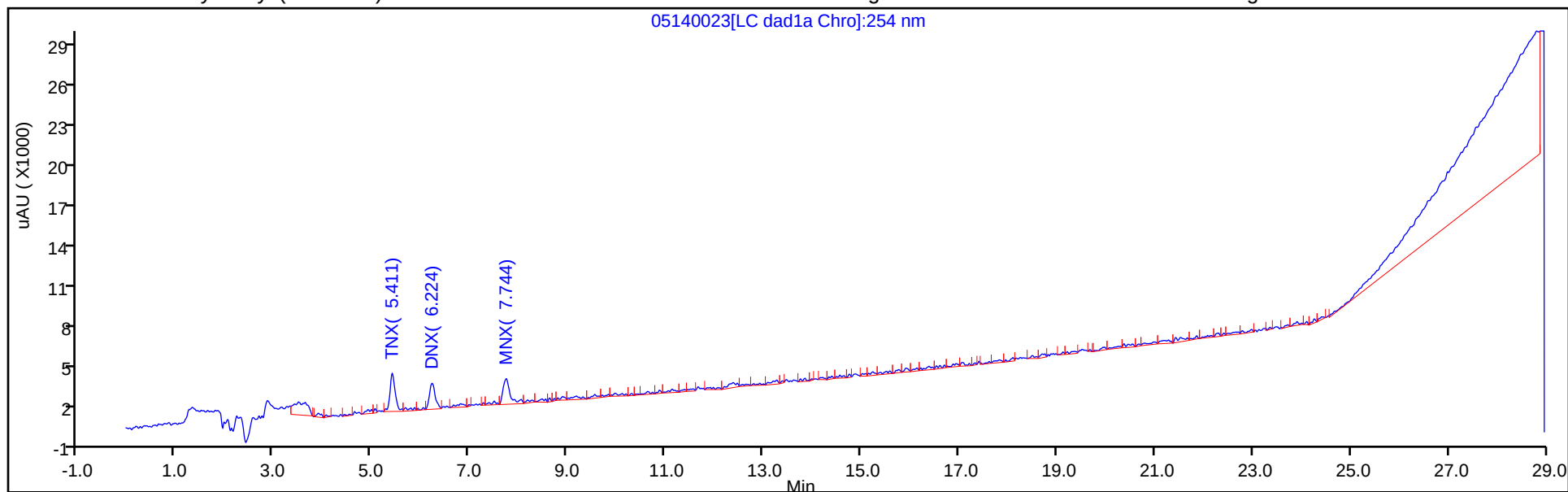
ALS Bottle#: 23

Method: G2_8330_Luna

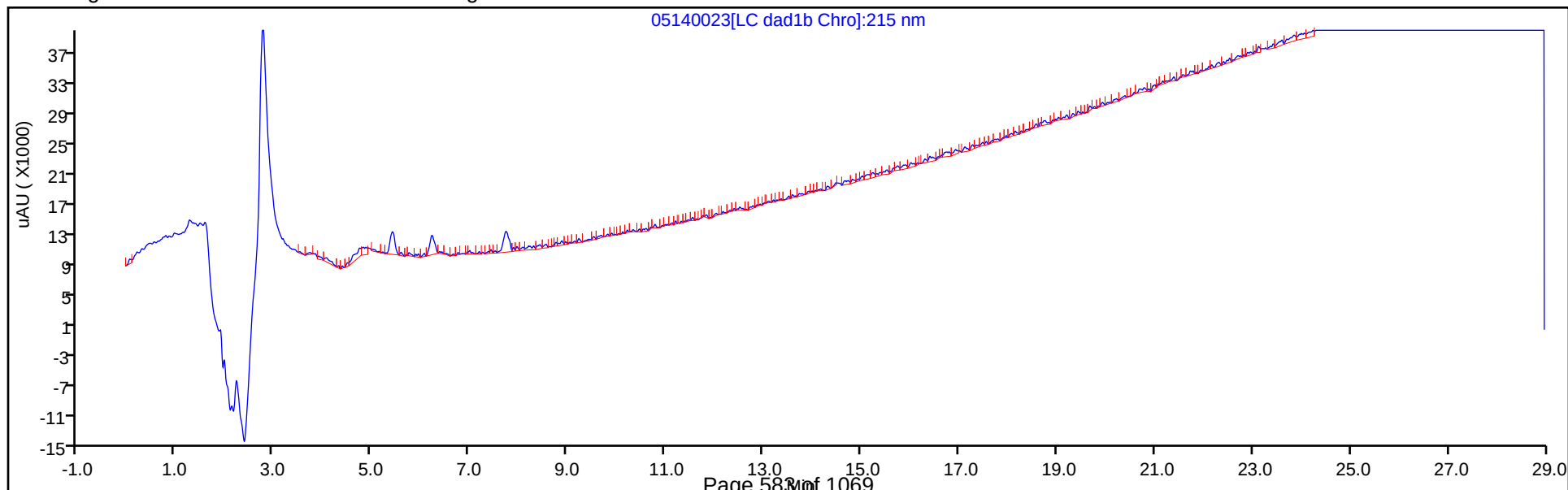
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Lims ID: IC DMT 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 15-May-2020 02:11:20 ALS Bottle#: 24 Worklist Smp#: 24
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC DMT 2
 Misc. Info.: 280-0091518-024
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub13
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 15-May-2020 12:01:05 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0318

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.430	5.417	0.013	11052	0.0200	0.0254	
4 DNX	1	6.217	6.231	-0.014	7620	0.0200	0.0237	
7 MNX	1	7.737	7.744	-0.007	11914	0.0233	0.0244	

Reagents:

8330 DMT_00006

Amount Added: 1.00

Units: uL

Report Date: 15-May-2020 12:01:05

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140024.d

Injection Date: 15-May-2020 02:11:20

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC DMT 2

Worklist Smp#: 24

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

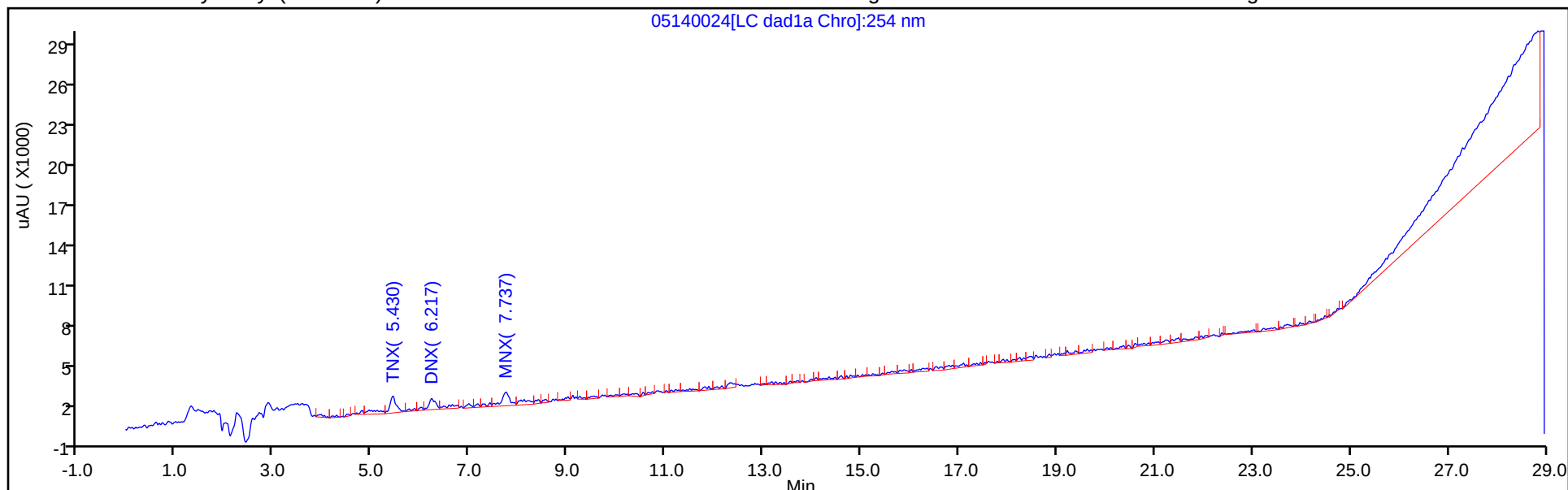
ALS Bottle#: 24

Method: G2_8330_Luna

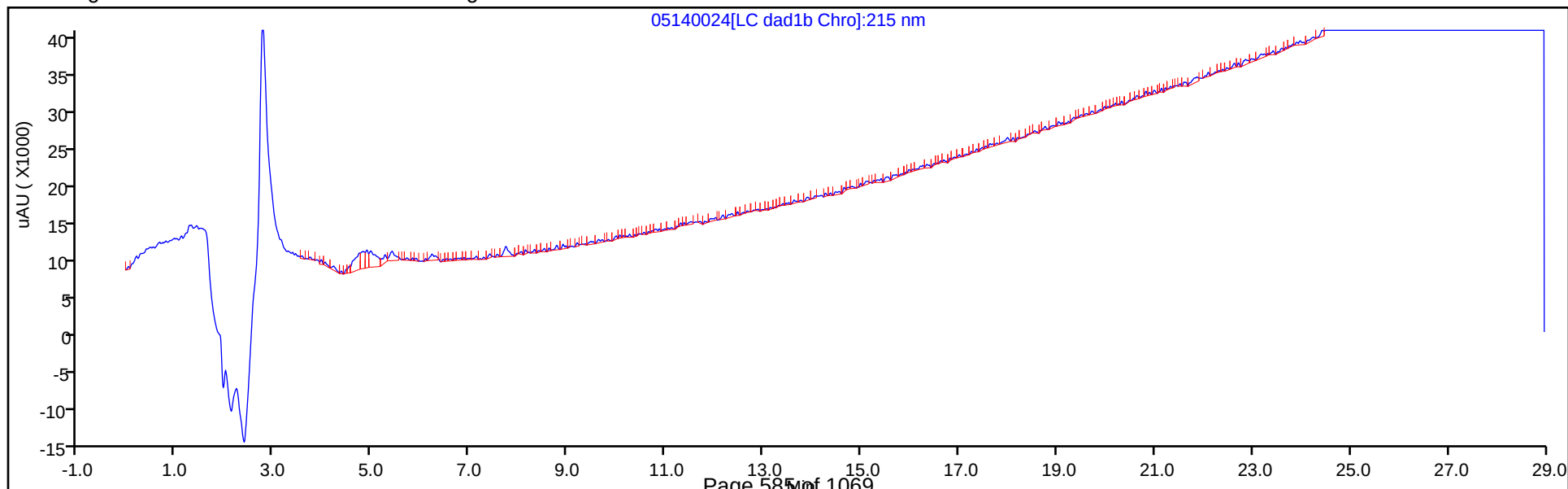
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1 Analy Batch No.: 487658

SDG No.: _____

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/04/2020 21:00 Calibration End Date: 03/04/2020 23:40 Calibration ID: 42564

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-487658/32	03040032.D
Level 2	IC 280-487658/31	03040031.D
Level 3	IC 280-487658/30	03040030.D
Level 4	IC 280-487658/29	03040029.D
Level 5	IC 280-487658/28	03040028.D
Level 6	IC 280-487658/27	03040027.D
Level 7	IC 280-487658/26	03040026.D
Level 8	IC 280-487658/25	03040025.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
TNX	6.592	6.588	6.589	6.591	6.591	6.591	6.591	6.590			6.491 - 6.691	6.590
DNX	6.912	6.914	6.915	6.918	6.917	6.918	6.918	6.916			6.818 - 7.018	6.916
MNX	7.359	7.354	7.355	7.358	7.357	7.358	7.358	7.356			7.208 - 7.508	7.357

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1 Analy Batch No.: 487658

SDG No.: _____

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/04/2020 21:00 Calibration End Date: 03/04/2020 23:40 Calibration ID: 42564

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-487658/32	03040032.D
Level 2	IC 280-487658/31	03040031.D
Level 3	IC 280-487658/30	03040030.D
Level 4	IC 280-487658/29	03040029.D
Level 5	IC 280-487658/28	03040028.D
Level 6	IC 280-487658/27	03040027.D
Level 7	IC 280-487658/26	03040026.D
Level 8	IC 280-487658/25	03040025.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	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	216933 212722	213207 212002	209810 219067	231497 225632	Ave		217608.702				3.5		20.0			
DNX	117133 161214	137942 160624	149221 163997	167576 165720	Ave		152928.307				11.5		20.0			
MNX	175621 156707	161285 152355	156238 154895	157686 153564	Ave		158544.202				4.7		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1 Analy Batch No.: 487658

SDG No.: _____

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/04/2020 21:00 Calibration End Date: 03/04/2020 23:40 Calibration ID: 42564

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-487658/32	03040032.D
Level 2	IC 280-487658/31	03040031.D
Level 3	IC 280-487658/30	03040030.D
Level 4	IC 280-487658/29	03040029.D
Level 5	IC 280-487658/28	03040028.D
Level 6	IC 280-487658/27	03040027.D
Level 7	IC 280-487658/26	03040026.D
Level 8	IC 280-487658/25	03040025.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	4343 148550	10671 219286	21002 564643	57932	85174	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250	0.400
DNX	Ave	2345 112549	6904 164161	14937 414714	41936	64550	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250	0.400
MNX	Ave	4099 124459	9411 180763	18233 448024	46005	73151	0.0233 0.817	0.0584 1.17	0.117 2.92	0.292	0.467

Curve Type Legend:

Ave = Average

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040025.D
 Lims ID: IC DMT L8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 04-Mar-2020 21:00:00 ALS Bottle#: 25 Worklist Smp#: 25
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC DMT L8
 Misc. Info.: 280-0089779-025
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub17
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 06-Mar-2020 10:25:20 Calib Date: 04-Mar-2020 23:40:46
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX0308

First Level Reviewer: becker

Date: 05-Mar-2020 08:30:04

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.590	6.591	-0.001	564643	2.50	2.59	M
5 DNX	1	6.916	6.918	-0.002	414714	2.50	2.71	M
6 MNX	1	7.356	7.358	-0.002	448024	2.92	2.83	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00005

Amount Added: 125.00

Units: uL

Report Date: 06-Mar-2020 10:25:21

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040025.d

Injection Date: 04-Mar-2020 21:00:00

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC DMT L8

Worklist Smp#: 25

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

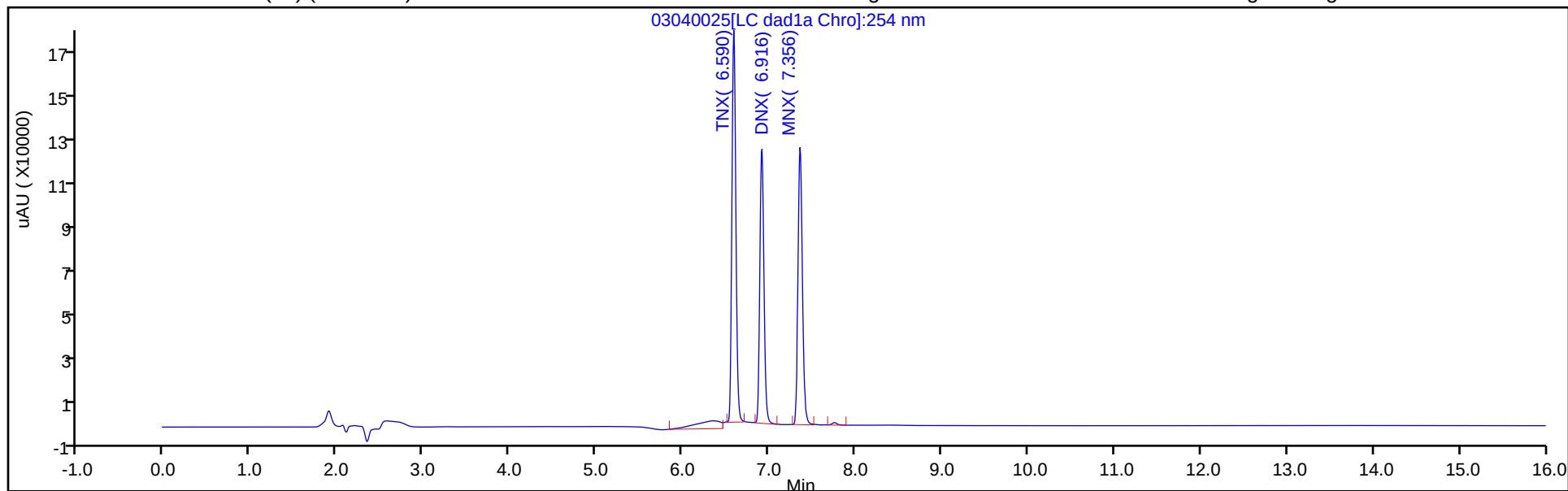
ALS Bottle#: 25

Method: 8330_X3

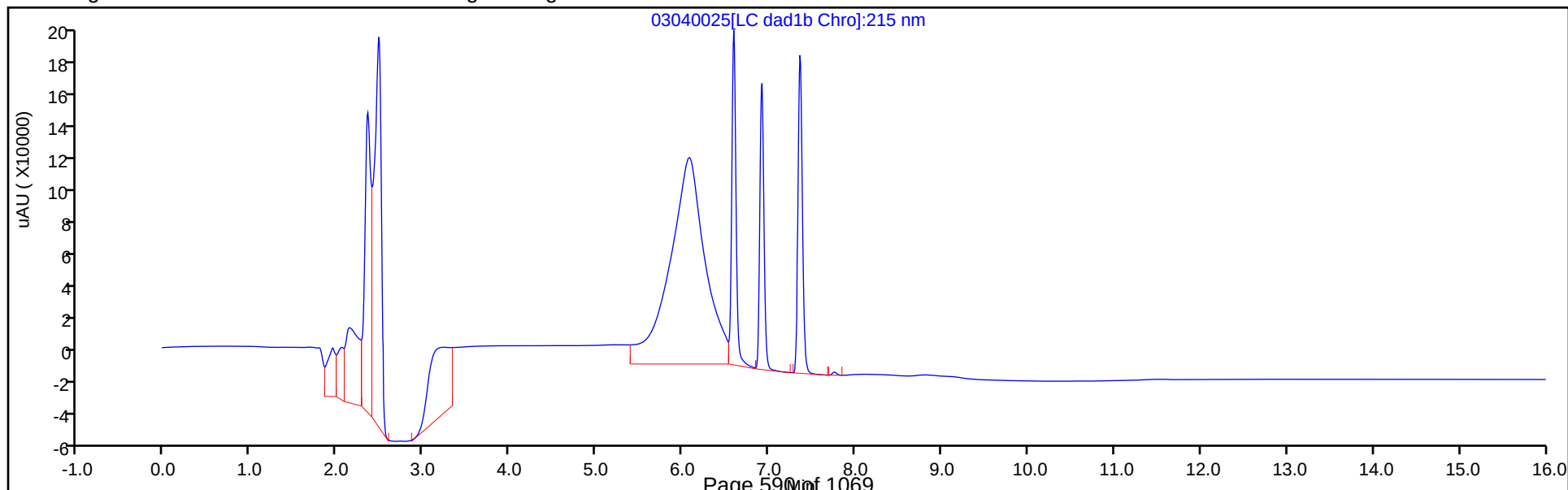
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

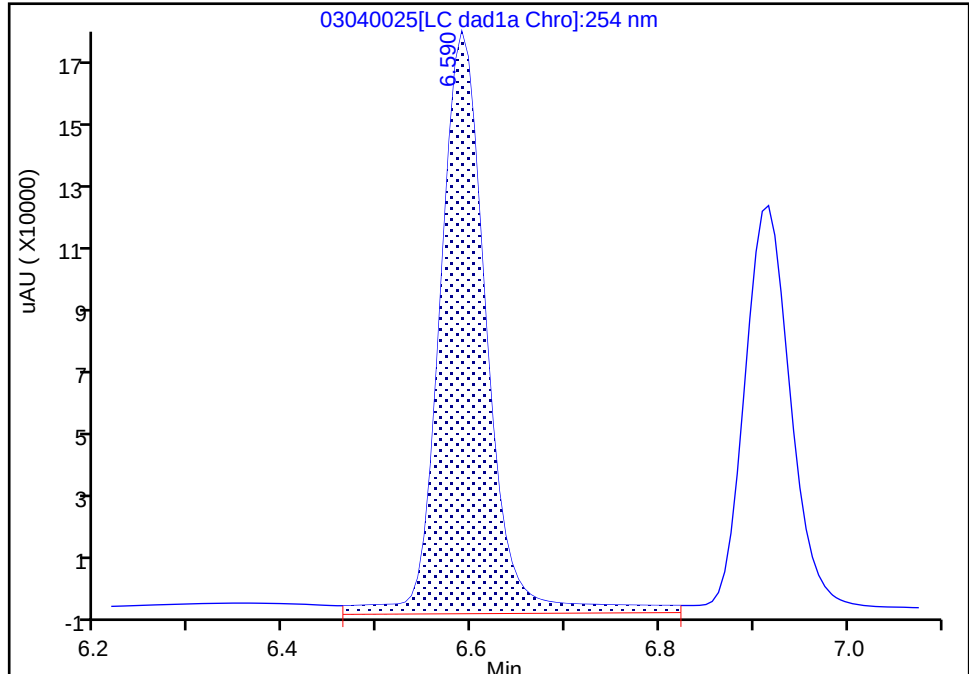
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040025.d
Injection Date: 04-Mar-2020 21:00:00 Instrument ID: CHHPLC_X3
Lims ID: IC DMT L8
Client ID:
Operator ID: CB ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

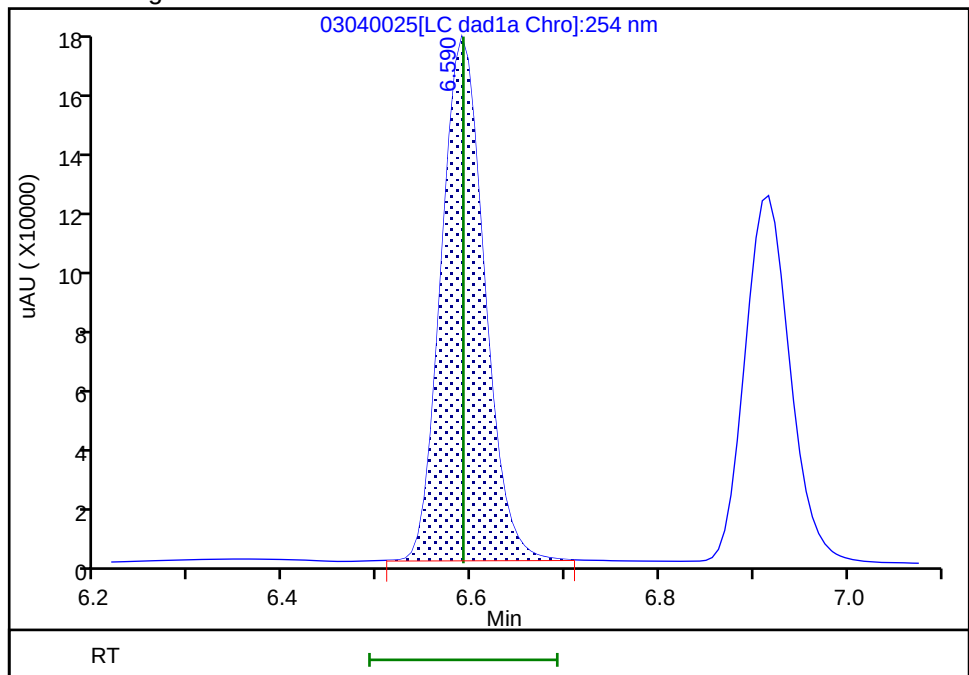
RT: 6.59
Area: 620676
Amount: 2.450904
Amount Units: ug/mL

Processing Integration Results



RT: 6.59
Area: 564643
Amount: 2.594763
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 05-Mar-2020 08:29:45
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

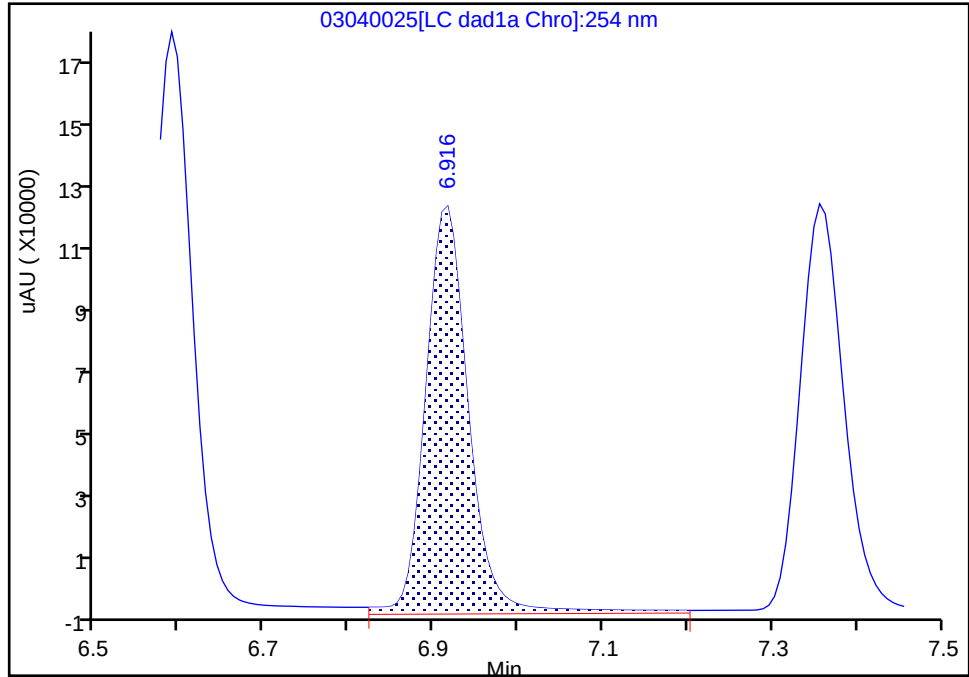
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040025.d
Injection Date: 04-Mar-2020 21:00:00 Instrument ID: CHHPLC_X3
Lims ID: IC DMT L8
Client ID:
Operator ID: CB ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

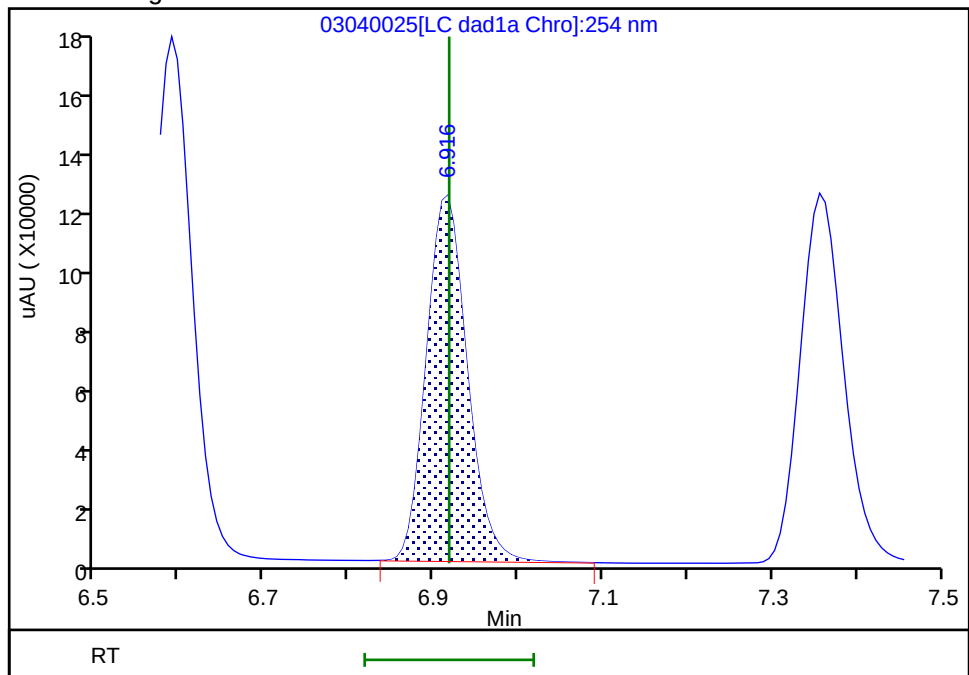
RT: 6.92
Area: 445633
Amount: 2.254277
Amount Units: ug/mL

Processing Integration Results



RT: 6.92
Area: 414714
Amount: 2.711820
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 05-Mar-2020 08:29:52

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

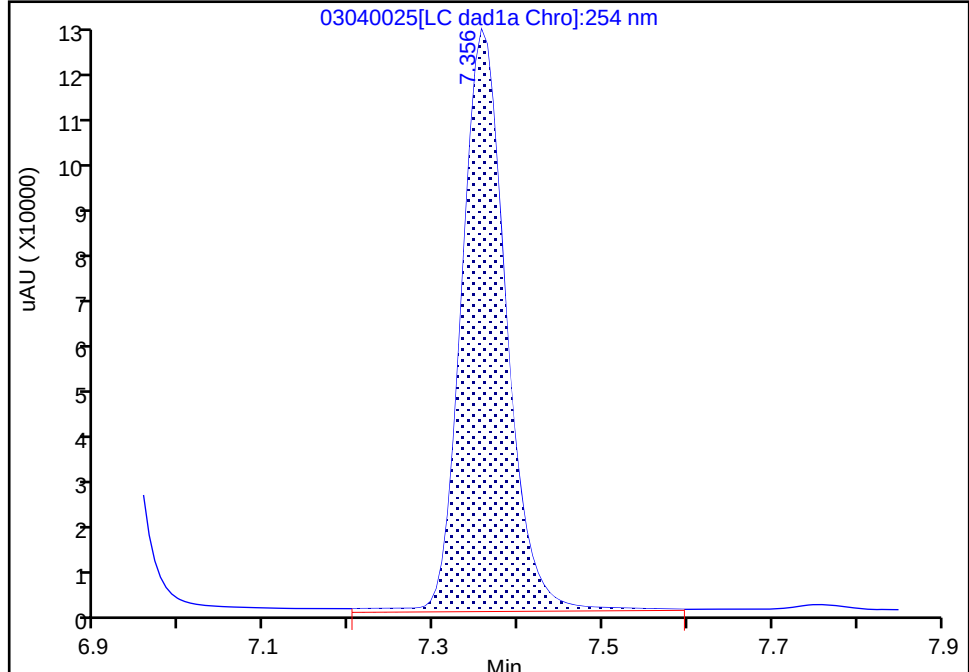
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040025.d
Injection Date: 04-Mar-2020 21:00:00 Instrument ID: CHHPLC_X3
Lims ID: IC DMT L8
Client ID:
Operator ID: CB ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

6 MNX, CAS: 5755-27-1

Signal: 1

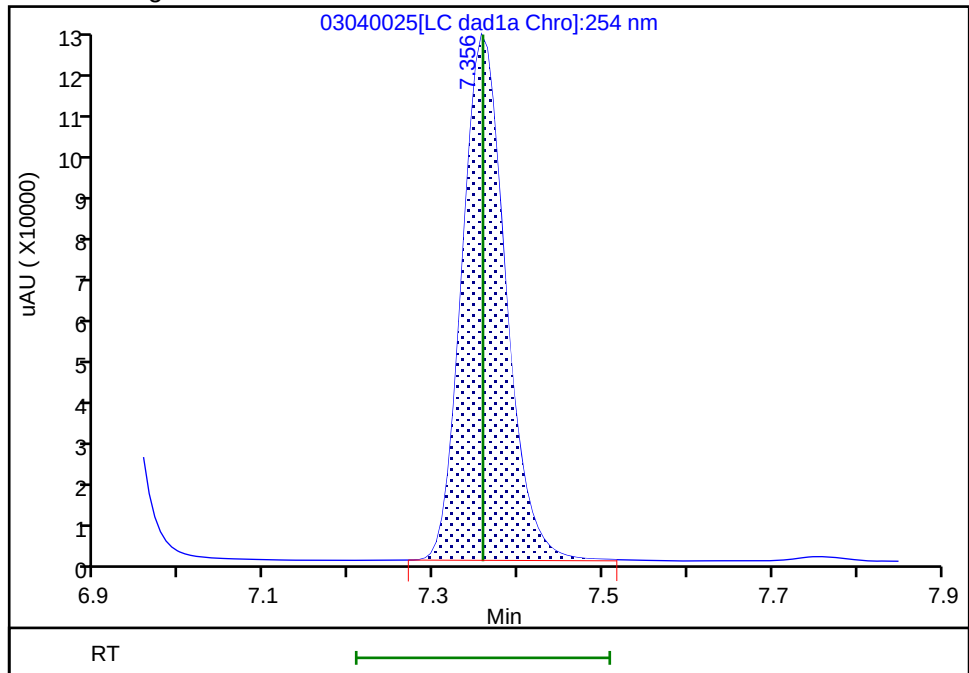
RT: 7.36
Area: 461400
Amount: 2.899748
Amount Units: ug/mL

Processing Integration Results



RT: 7.36
Area: 448024
Amount: 2.825862
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 05-Mar-2020 08:30:00
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040026.D
 Lims ID: IC DMT L7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 04-Mar-2020 21:23:03 ALS Bottle#: 26 Worklist Smp#: 26
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC DMT L7
 Misc. Info.: 280-0089779-026
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub17
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 06-Mar-2020 10:25:21 Calib Date: 04-Mar-2020 23:40:46
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX0308

First Level Reviewer: becker

Date: 05-Mar-2020 08:30:32

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.591	6.591	0.000	219286	1.00	1.01	M
5 DNX	1	6.918	6.918	0.000	164161	1.00	1.07	M
6 MNX	1	7.358	7.358	0.000	180763	1.17	1.14	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00005

Amount Added: 50.00

Units: uL

Report Date: 06-Mar-2020 10:25:22

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040026.d

Injection Date: 04-Mar-2020 21:23:03

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC DMT L7

Worklist Smp#: 26

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

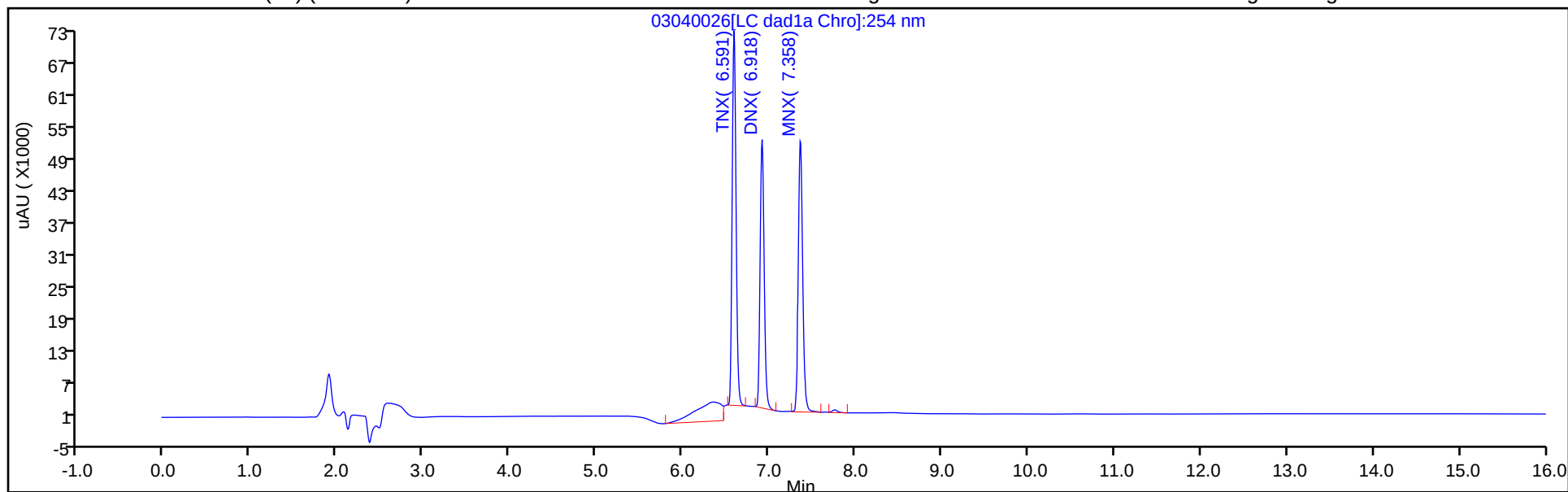
ALS Bottle#: 26

Method: 8330_X3

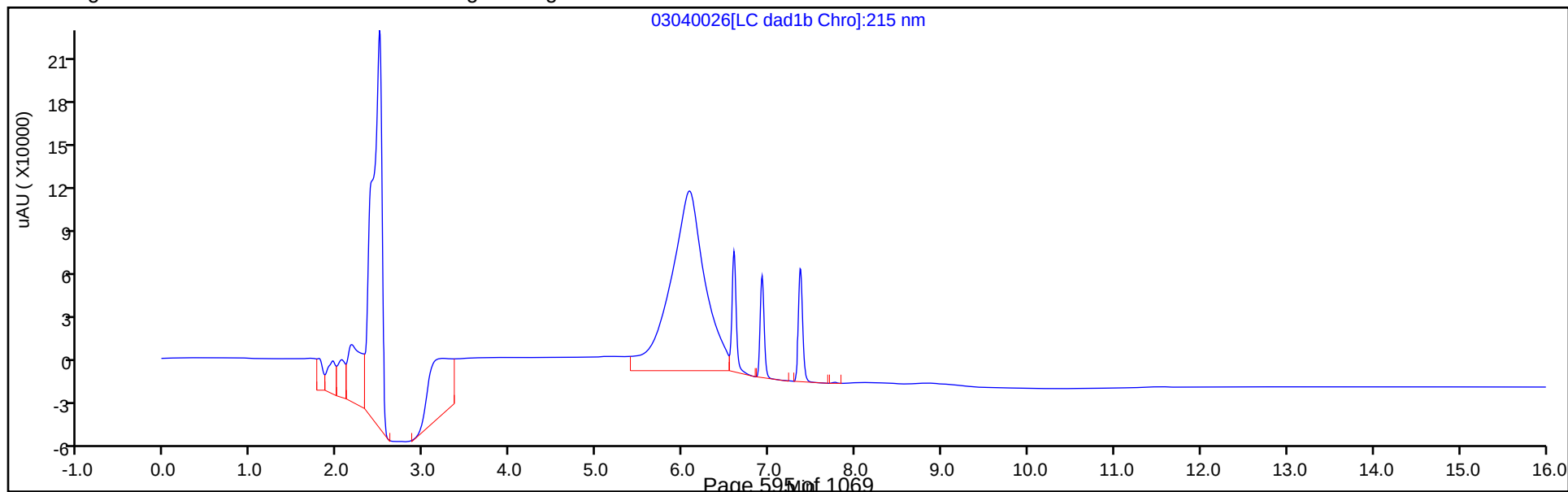
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

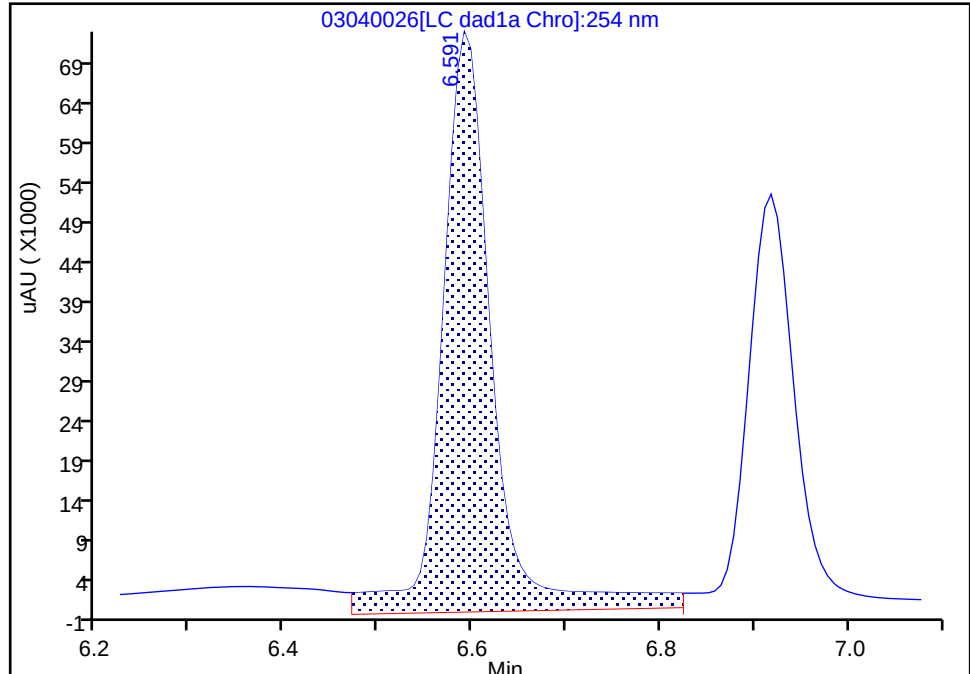
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040026.d
Injection Date: 04-Mar-2020 21:23:03 Instrument ID: CHHPLC_X3
Lims ID: IC DMT L7
Client ID:
Operator ID: CB ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

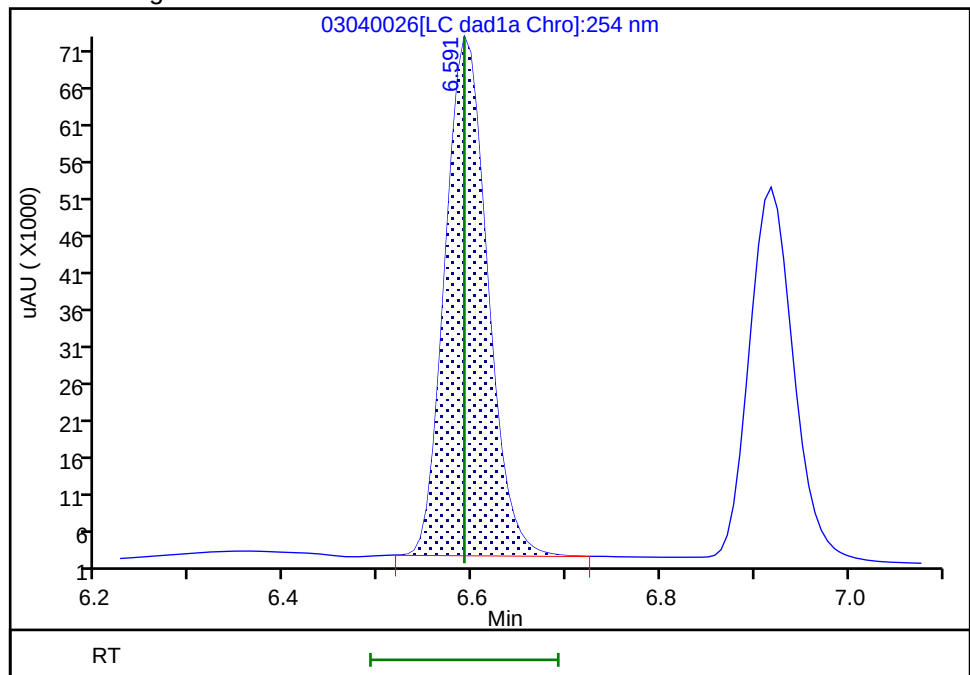
RT: 6.59
Area: 269369
Amount: 1.068967
Amount Units: ug/mL

Processing Integration Results



RT: 6.59
Area: 219286
Amount: 1.007708
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 05-Mar-2020 08:30:20
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040026.d

Injection Date: 04-Mar-2020 21:23:03

Instrument ID: CHHPLC_X3

Lims ID: IC DMT L7

Client ID:

Operator ID: CB

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)

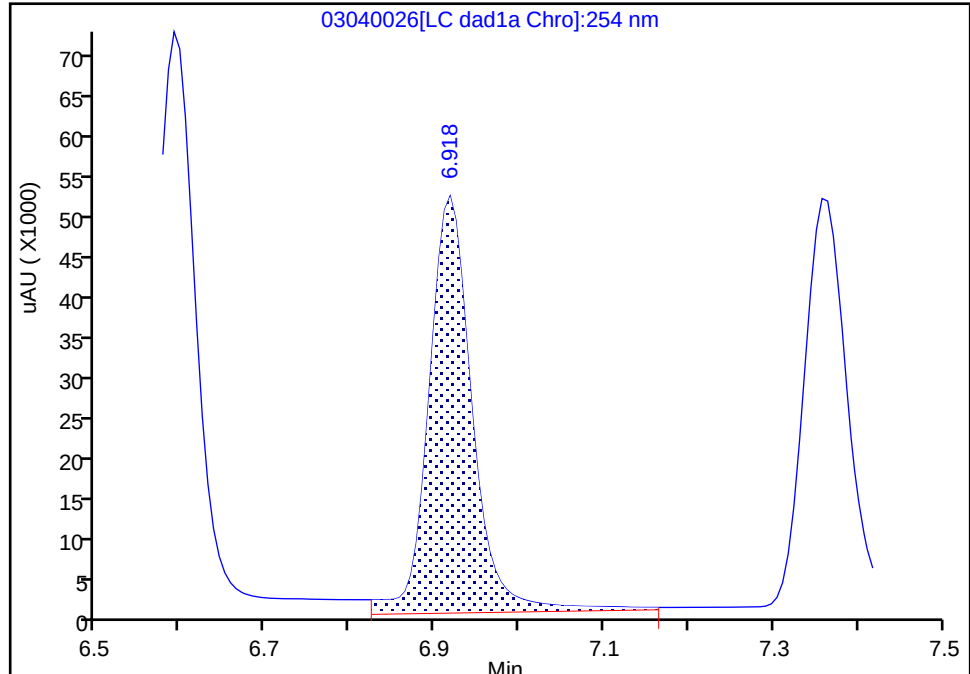
Detector: LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

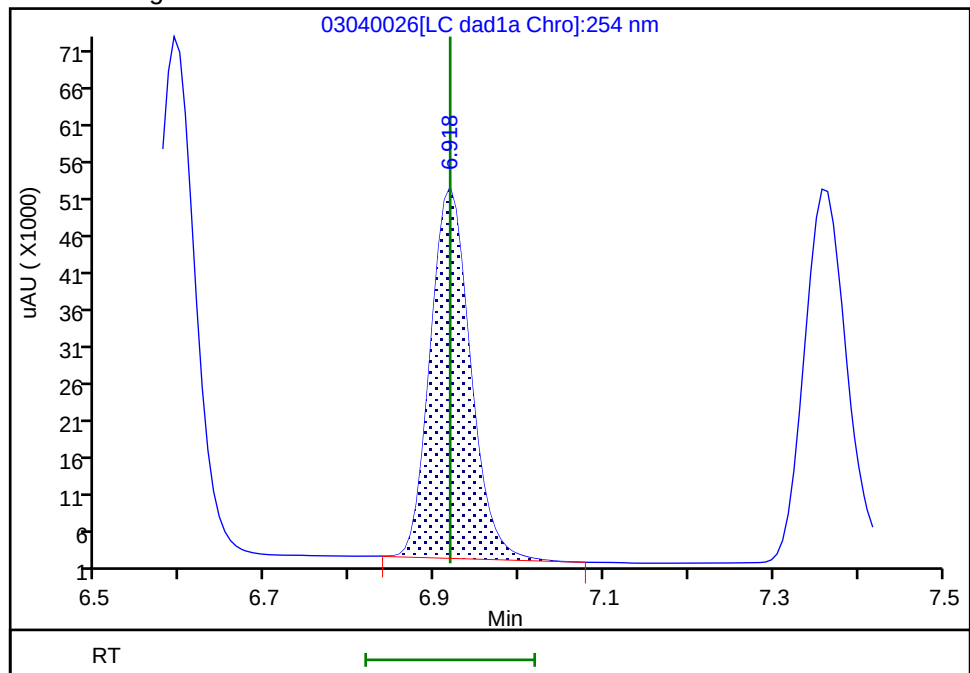
RT: 6.92
Area: 184230
Amount: 0.939283
Amount Units: ug/mL

Processing Integration Results



RT: 6.92
Area: 164161
Amount: 1.073451
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 05-Mar-2020 08:30:26

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040027.D
 Lims ID: IC DMT L6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 04-Mar-2020 21:45:58 ALS Bottle#: 27 Worklist Smp#: 27
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC DMT L6
 Misc. Info.: 280-0089779-027
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub17
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 06-Mar-2020 10:25:23 Calib Date: 04-Mar-2020 23:40:46
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX0308

First Level Reviewer: becker

Date: 05-Mar-2020 08:30:53

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.591	6.591	0.000	148550	0.7007	0.6826	M
5 DNX	1	6.918	6.918	0.000	112549	0.7007	0.7360	M
6 MNX	1	7.358	7.358	0.000	124459	0.8169	0.7850	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00005

Amount Added: 35.00

Units: uL

Report Date: 06-Mar-2020 10:25:23

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040027.d

Injection Date: 04-Mar-2020 21:45:58

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC DMT L6

Worklist Smp#: 27

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

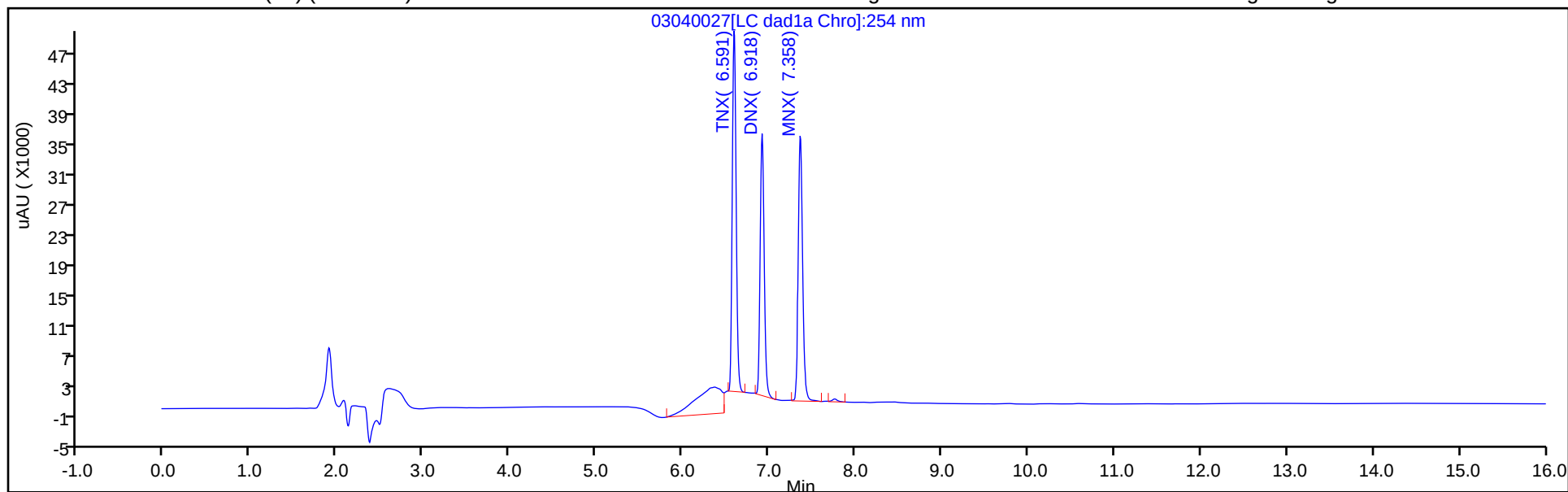
ALS Bottle#: 27

Method: 8330_X3

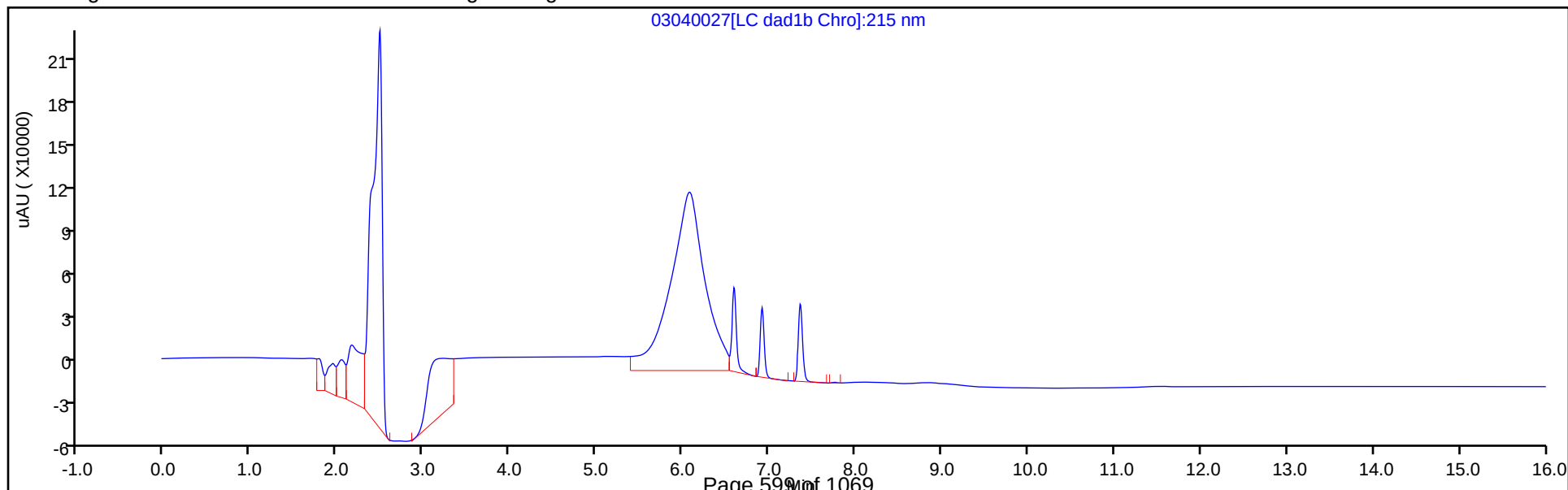
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

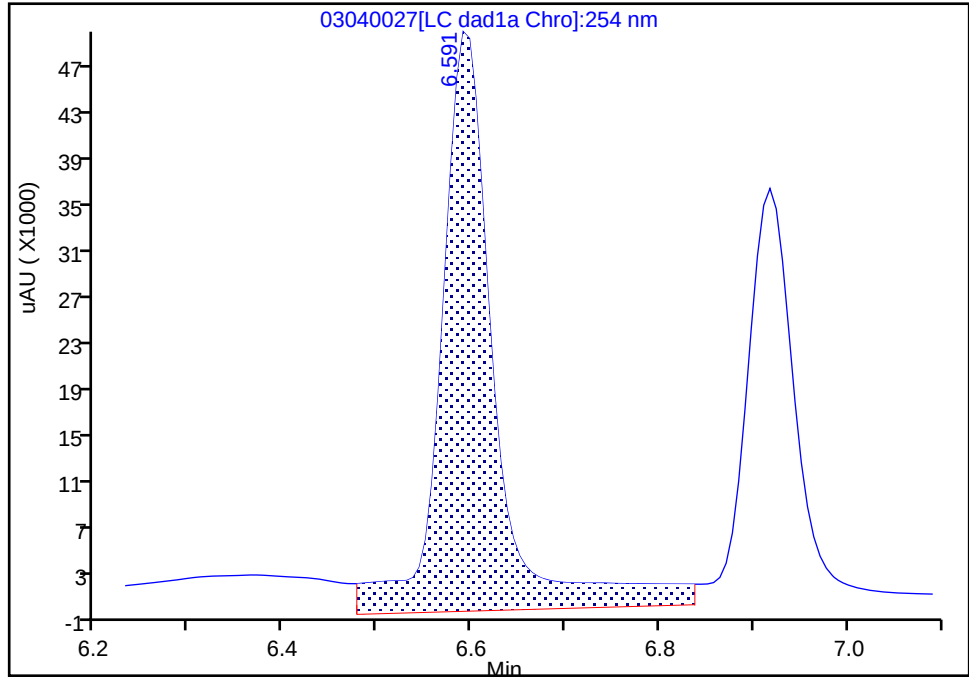
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040027.d
Injection Date: 04-Mar-2020 21:45:58 Instrument ID: CHHPLC_X3
Lims ID: IC DMT L6
Client ID:
Operator ID: CB ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

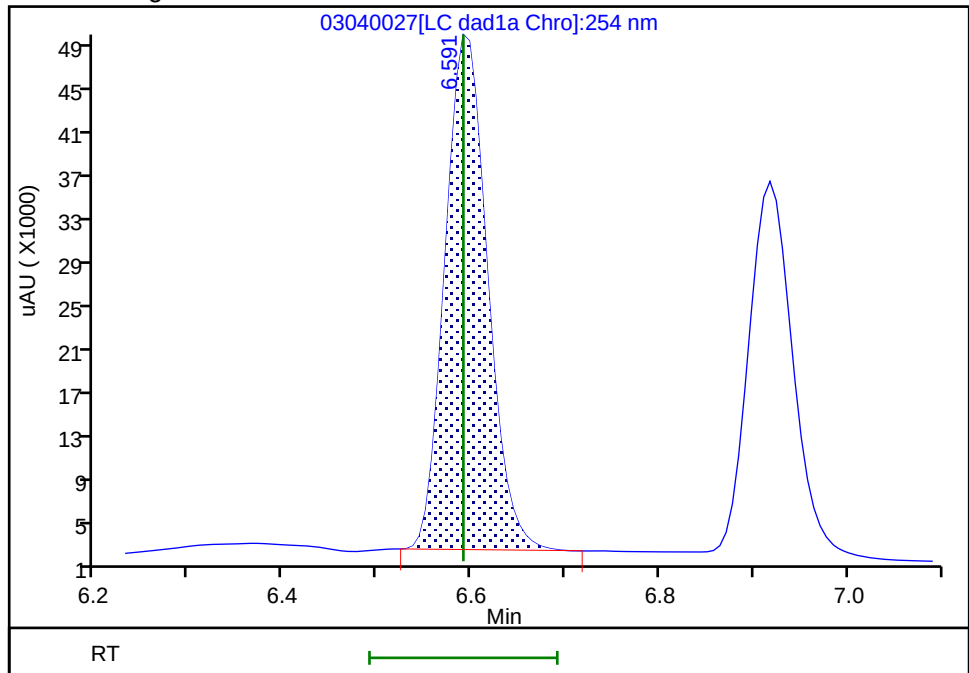
RT: 6.59
Area: 198883
Amount: 0.812342
Amount Units: ug/mL

Processing Integration Results



RT: 6.59
Area: 148550
Amount: 0.682647
Amount Units: ug/mL

Manual Integration Results



Eurofins TestAmerica, Denver

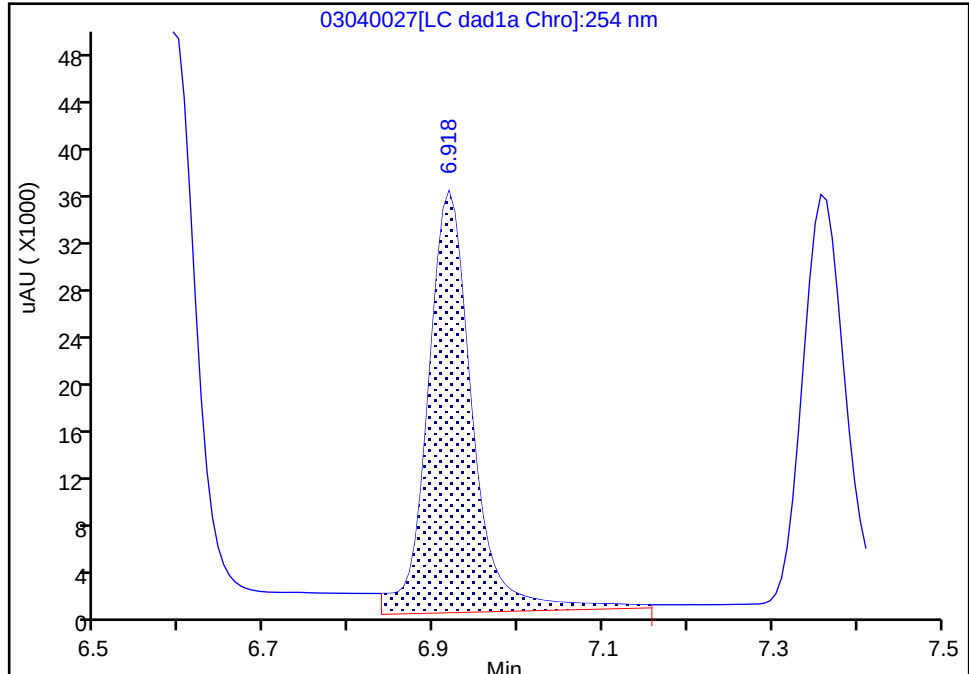
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040027.d
Injection Date: 04-Mar-2020 21:45:58 Instrument ID: CHHPLC_X3
Lims ID: IC DMT L6
Client ID:
Operator ID: CB ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

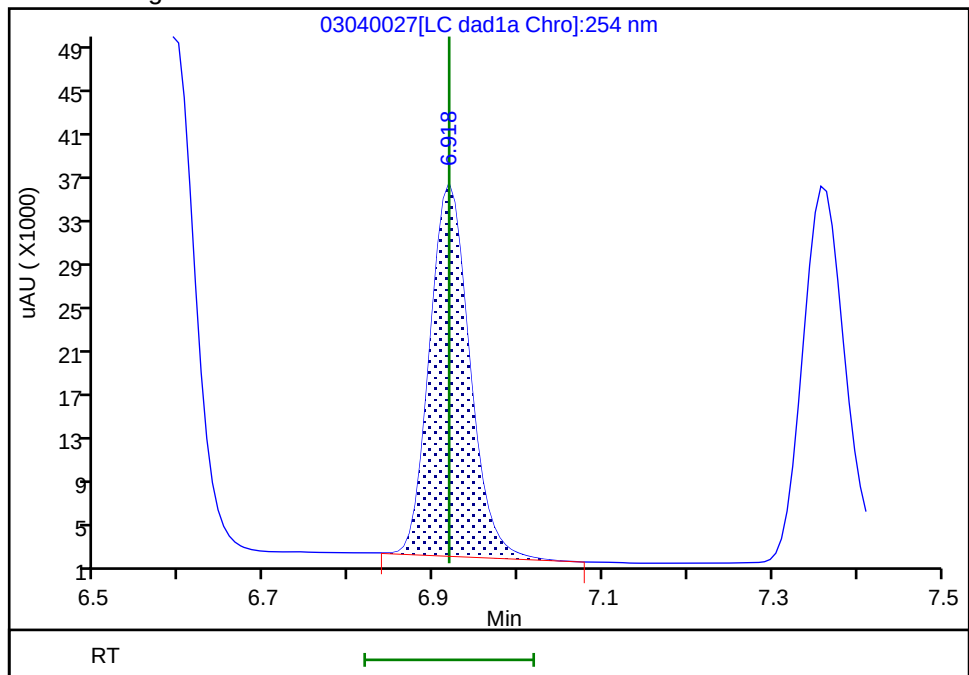
RT: 6.92
Area: 130368
Amount: 0.673274
Amount Units: ug/mL

Processing Integration Results



RT: 6.92
Area: 112549
Amount: 0.735959
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 05-Mar-2020 08:30:49
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040028.D
 Lims ID: IC DMT L5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 04-Mar-2020 22:09:00 ALS Bottle#: 28 Worklist Smp#: 28
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC DMT L5
 Misc. Info.: 280-0089779-028
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub17
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 06-Mar-2020 10:25:24 Calib Date: 04-Mar-2020 23:40:46
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX0308

First Level Reviewer: becker

Date: 05-Mar-2020 08:31:18

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.591	6.591	0.000	85174	0.4004	0.3914	M
5 DNX	1	6.917	6.918	-0.001	64550	0.4004	0.4221	M
6 MNX	1	7.357	7.358	-0.001	73151	0.4668	0.4614	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00005

Amount Added: 20.00

Units: uL

Report Date: 06-Mar-2020 10:25:24

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Euofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040028.d

Injection Date: 04-Mar-2020 22:09:00

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC DMT L5

Worklist Smp#: 28

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

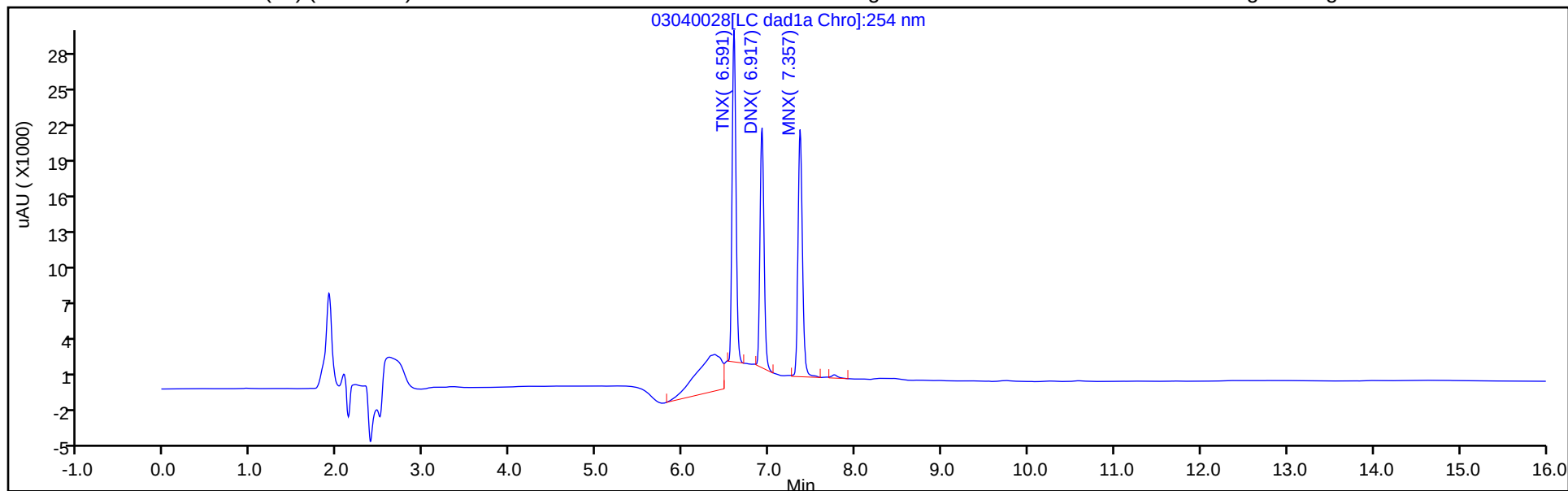
ALS Bottle#: 28

Method: 8330_X3

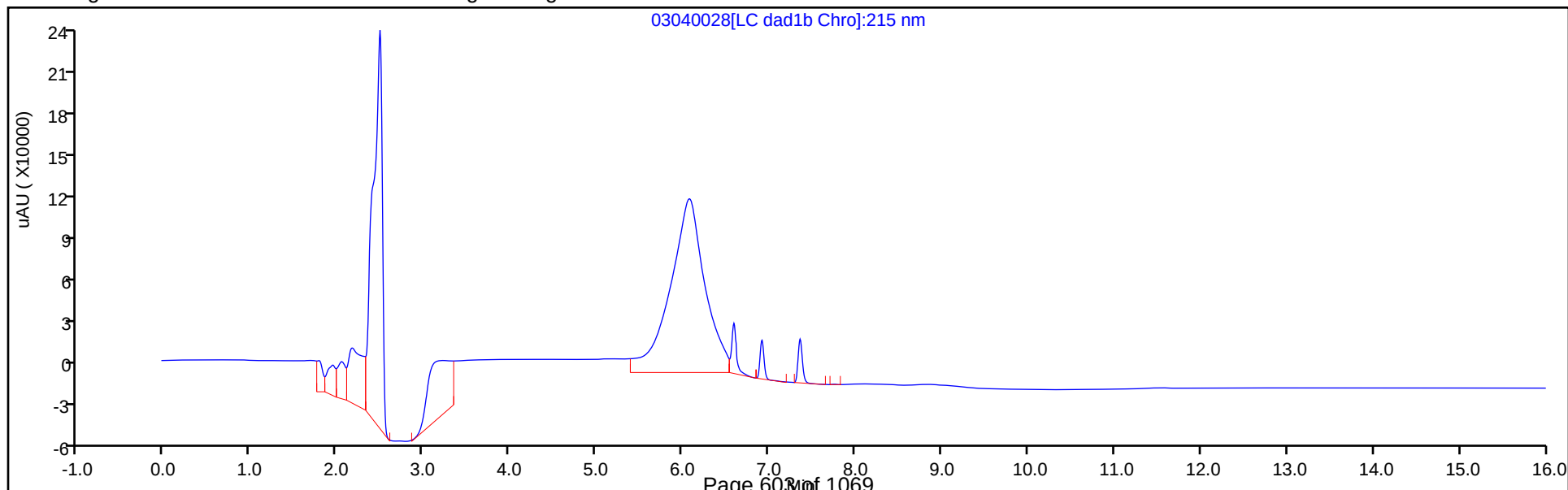
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

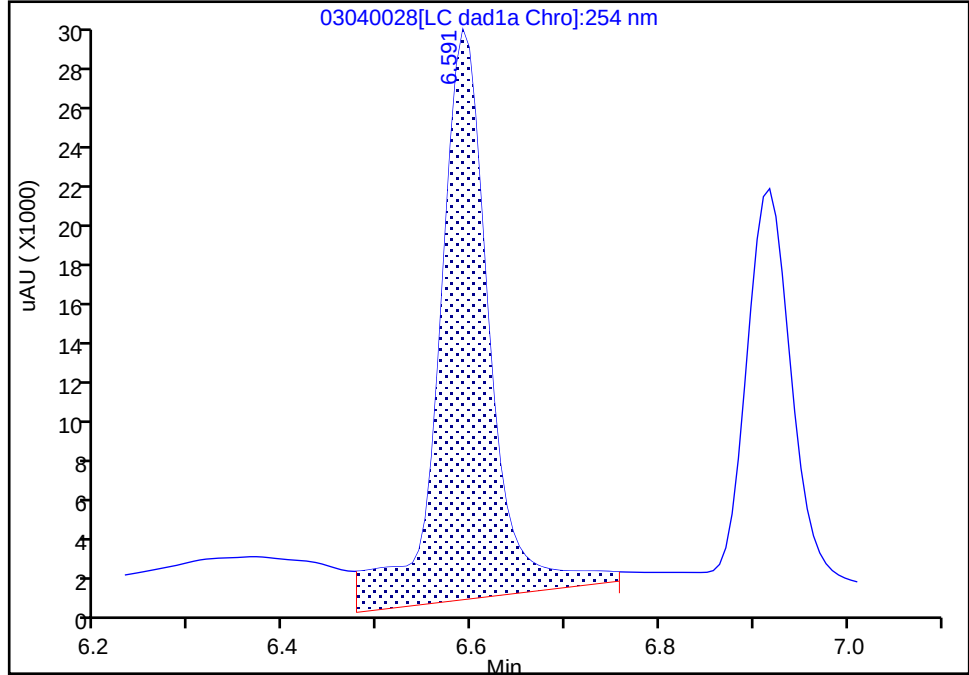
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040028.d
Injection Date: 04-Mar-2020 22:09:00 Instrument ID: CHHPLC_X3
Lims ID: IC DMT L5
Client ID:
Operator ID: CB ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

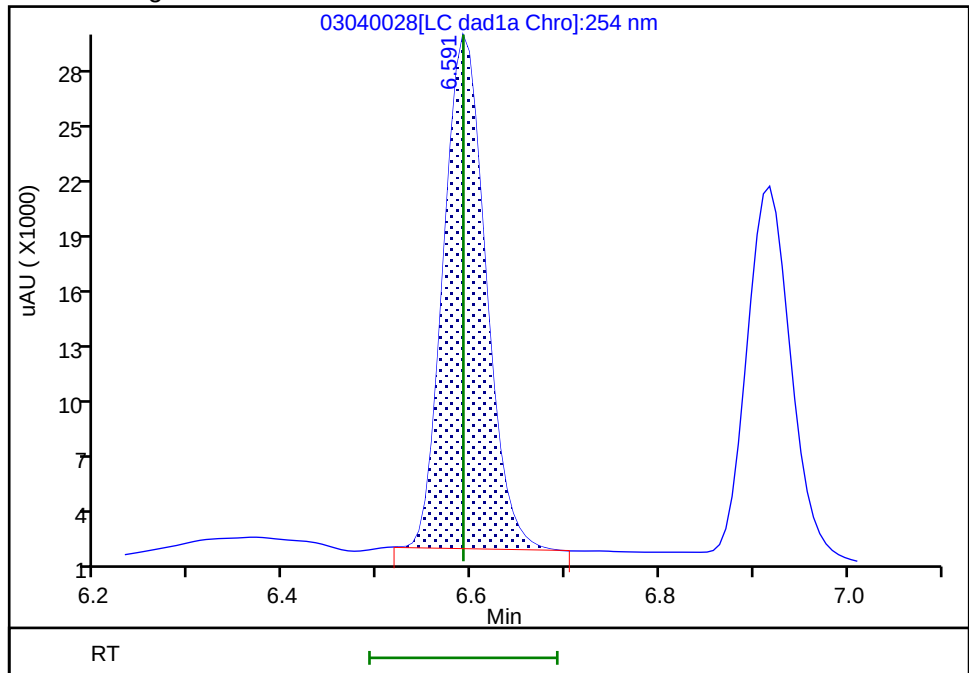
RT: 6.59
Area: 108455
Amount: 0.455381
Amount Units: ug/mL

Processing Integration Results



RT: 6.59
Area: 85174
Amount: 0.391409
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 05-Mar-2020 08:31:08
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040028.d

Injection Date: 04-Mar-2020 22:09:00

Instrument ID: CHHPLC_X3

Lims ID: IC DMT L5

Client ID:

Operator ID: CB

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

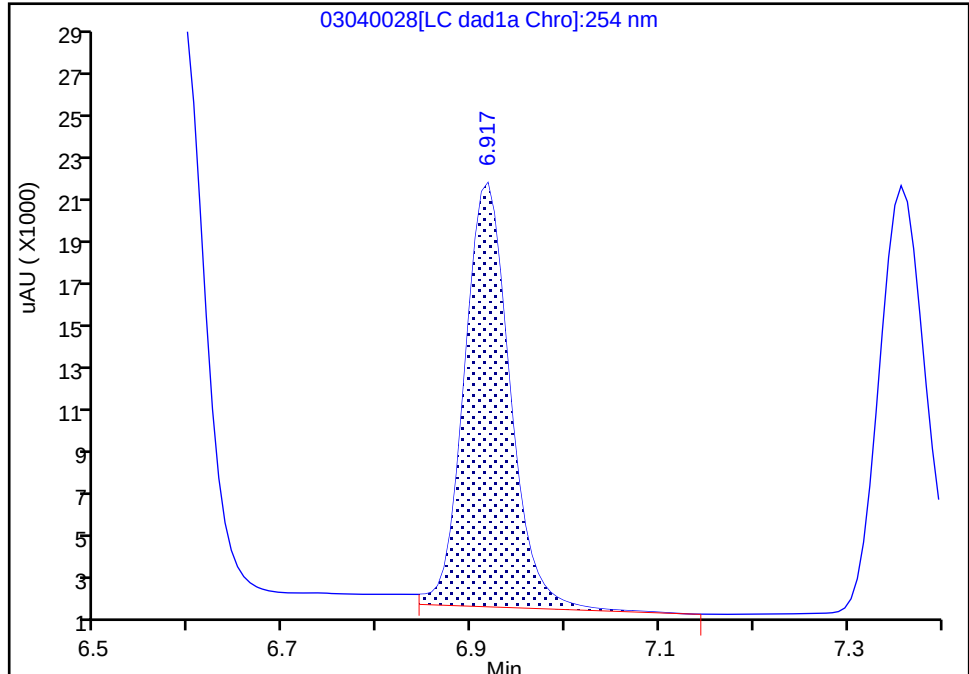
LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

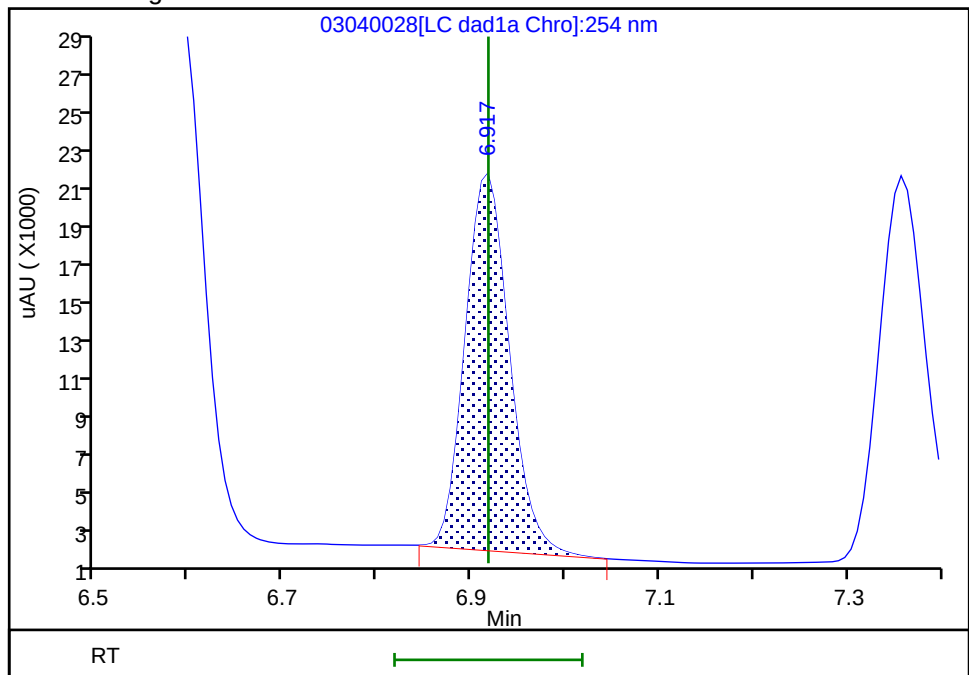
RT: 6.92
Area: 67686
Amount: 0.396160
Amount Units: ug/mL

Processing Integration Results



RT: 6.92
Area: 64550
Amount: 0.422093
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 05-Mar-2020 08:31:13

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040029.D
 Lims ID: IC DMT L4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 04-Mar-2020 22:31:57 ALS Bottle#: 29 Worklist Smp#: 29
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC DMT L4
 Misc. Info.: 280-0089779-029
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub17
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 06-Mar-2020 10:25:24 Calib Date: 04-Mar-2020 23:40:46
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX0308

First Level Reviewer: becker

Date: 05-Mar-2020 08:31:44

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.591	6.591	0.000	57932	0.2503	0.2662	M
5 DNX	1	6.918	6.918	0.000	41936	0.2503	0.2742	M
6 MNX	1	7.358	7.358	0.000	46005	0.2918	0.2902	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00005

Amount Added: 12.50

Units: uL

Report Date: 06-Mar-2020 10:25:25

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040029.d

Injection Date: 04-Mar-2020 22:31:57

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC DMT L4

Worklist Smp#: 29

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

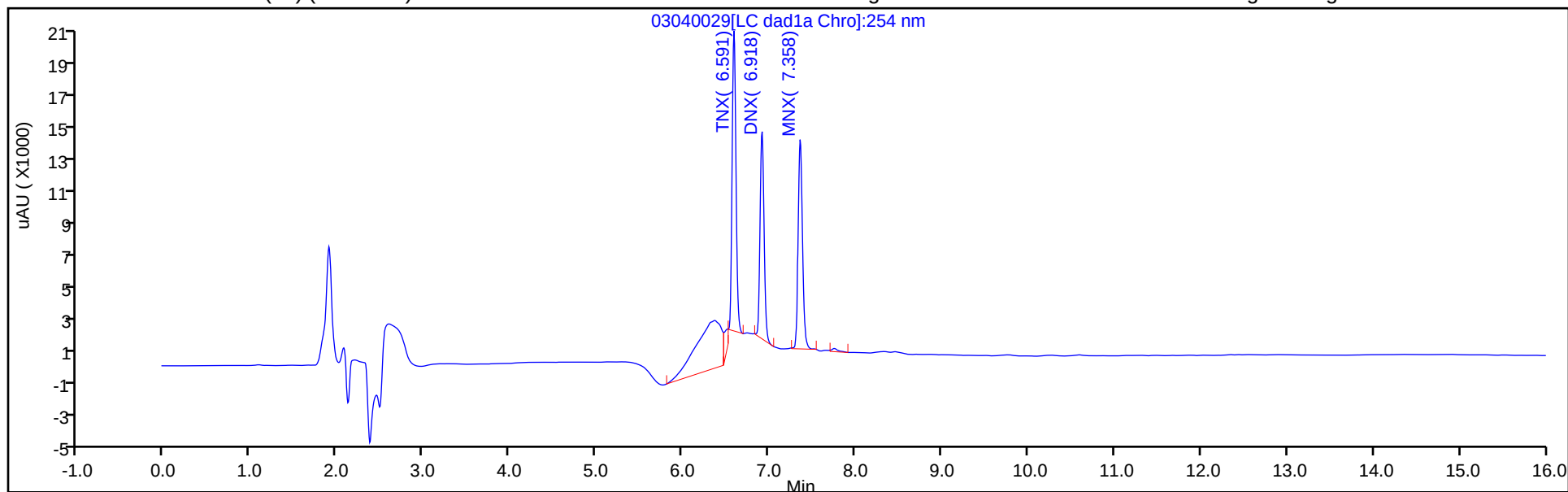
ALS Bottle#: 29

Method: 8330_X3

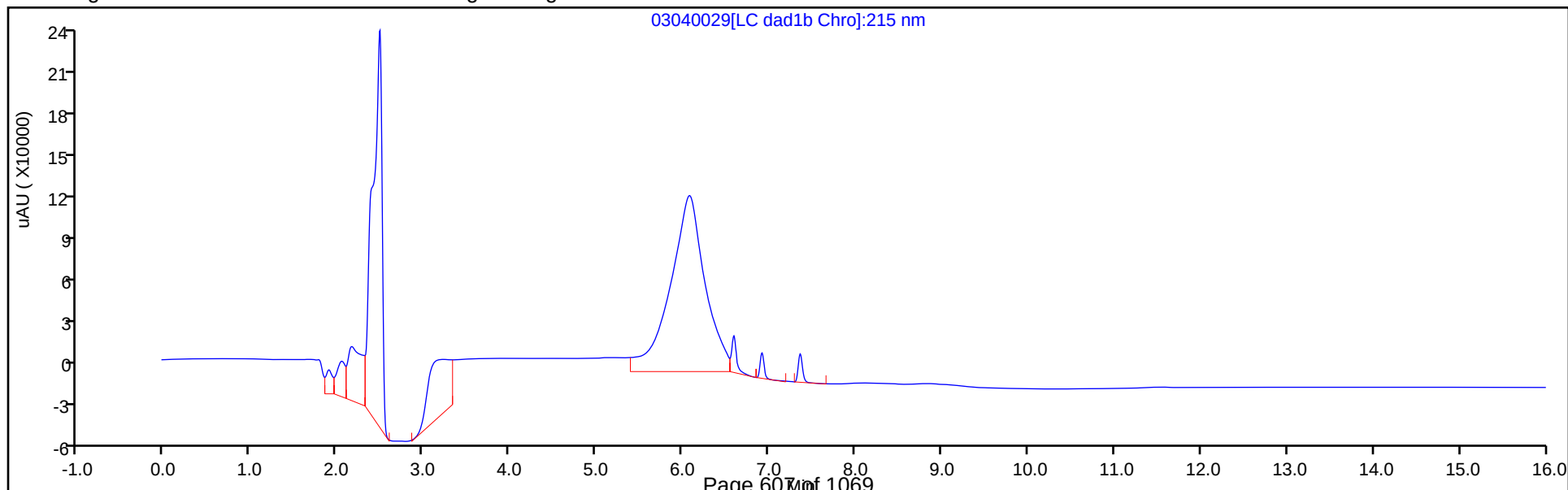
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040029.d

Injection Date: 04-Mar-2020 22:31:57

Instrument ID: CHHPLC_X3

Lims ID: IC DMT L4

Client ID:

Operator ID: CB

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)

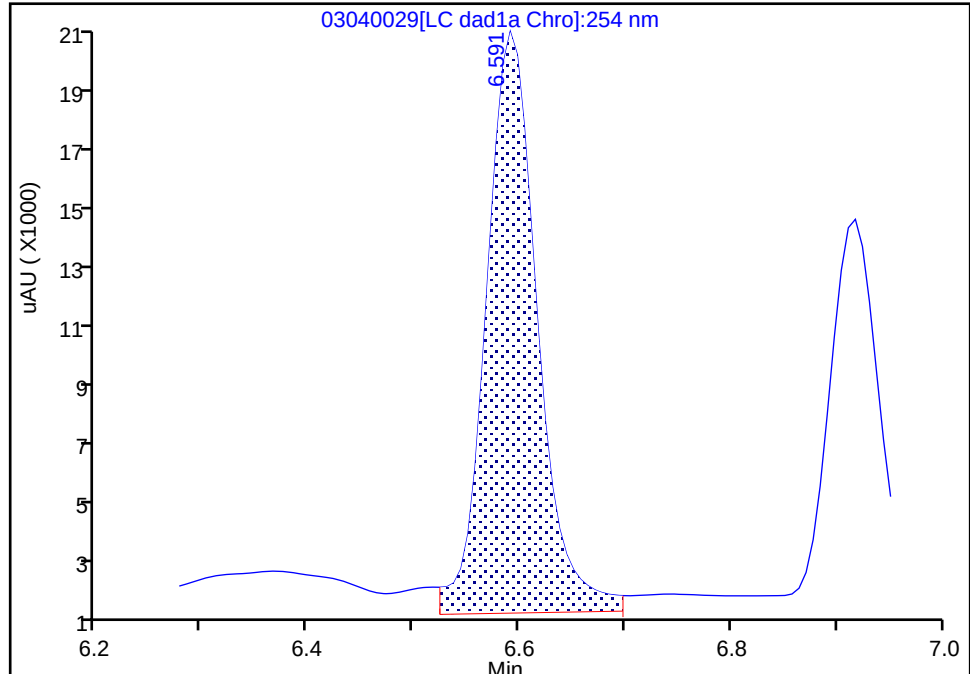
Detector: LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

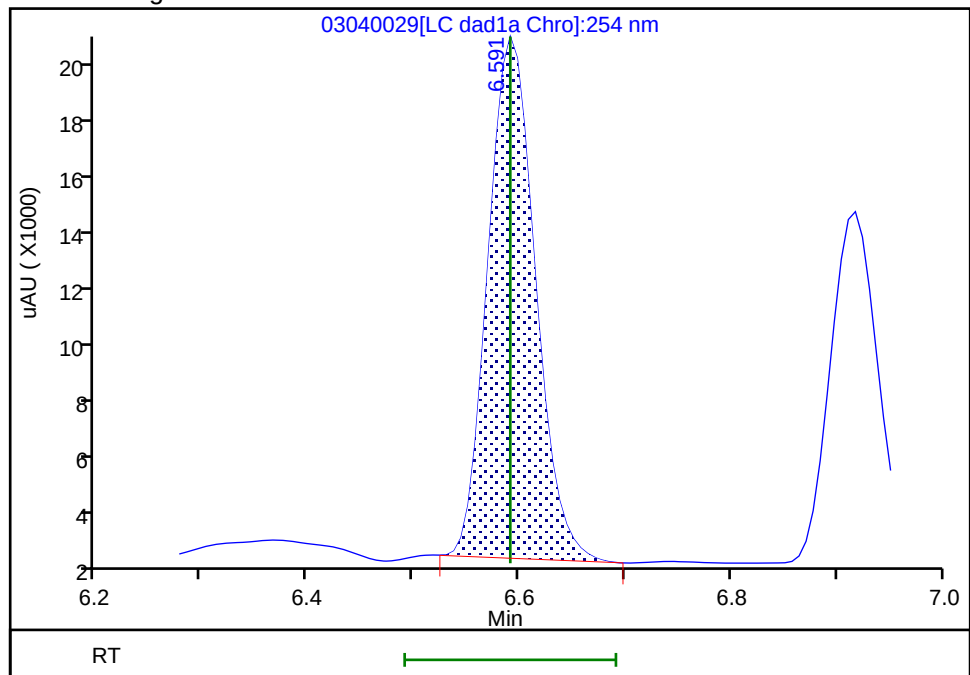
RT: 6.59
Area: 65279
Amount: 0.274722
Amount Units: ug/mL

Processing Integration Results



RT: 6.59
Area: 57932
Amount: 0.266221
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 05-Mar-2020 08:31:35

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040029.d

Injection Date: 04-Mar-2020 22:31:57

Instrument ID: CHHPLC_X3

Lims ID: IC DMT L4

Client ID:

Operator ID: CB

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

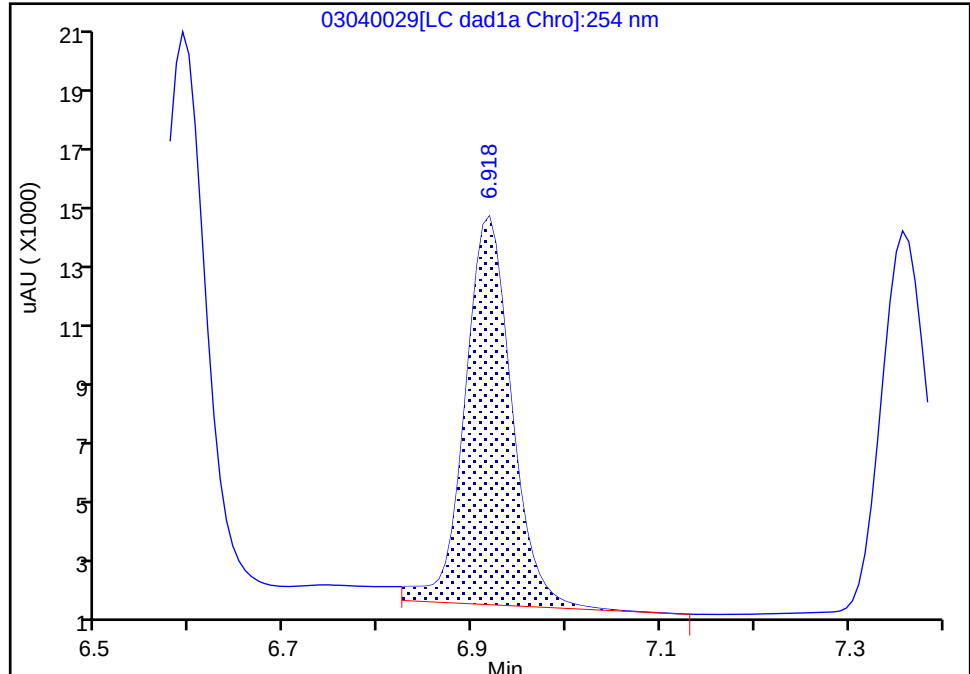
LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

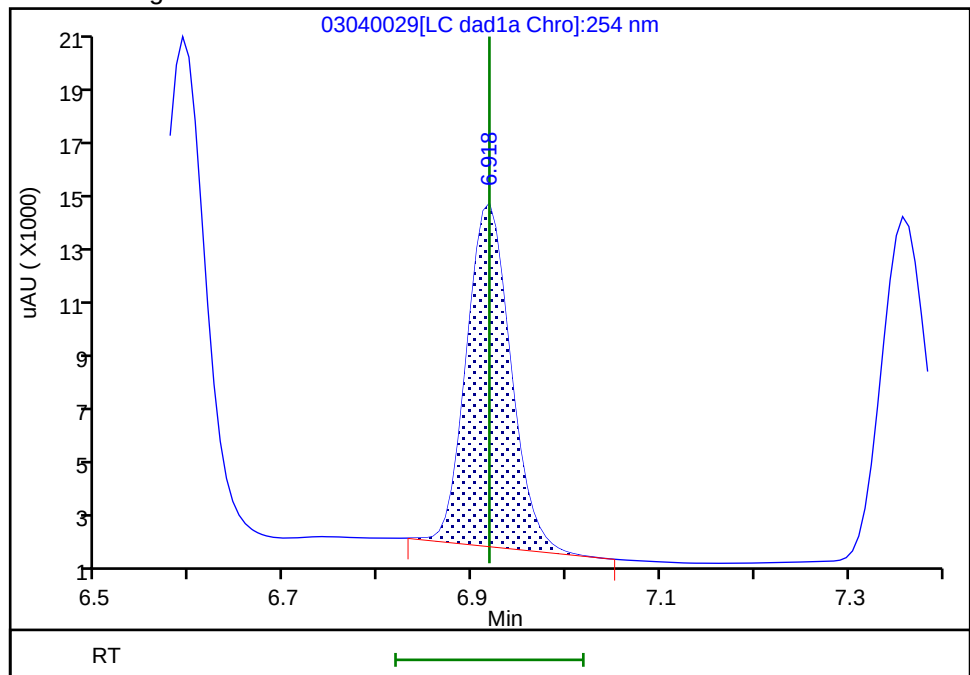
RT: 6.92
Area: 45380
Amount: 0.263025
Amount Units: ug/mL

Processing Integration Results



RT: 6.92
Area: 41936
Amount: 0.274220
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 05-Mar-2020 08:31:40

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040030.D
 Lims ID: IC DMT L3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 04-Mar-2020 22:54:53 ALS Bottle#: 30 Worklist Smp#: 30
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC DMT L3
 Misc. Info.: 280-0089779-030
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub17
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 06-Mar-2020 10:25:25 Calib Date: 04-Mar-2020 23:40:46
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX0308

First Level Reviewer: becker

Date: 05-Mar-2020 08:32:08

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.589	6.591	-0.002	21002	0.1001	0.0965	M
5 DNX	1	6.915	6.918	-0.003	14937	0.1001	0.0977	M
6 MNX	1	7.355	7.358	-0.003	18233	0.1167	0.1150	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00005

Amount Added: 5.00

Units: uL

Report Date: 06-Mar-2020 10:25:26

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040030.d

Injection Date: 04-Mar-2020 22:54:53

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC DMT L3

Worklist Smp#: 30

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

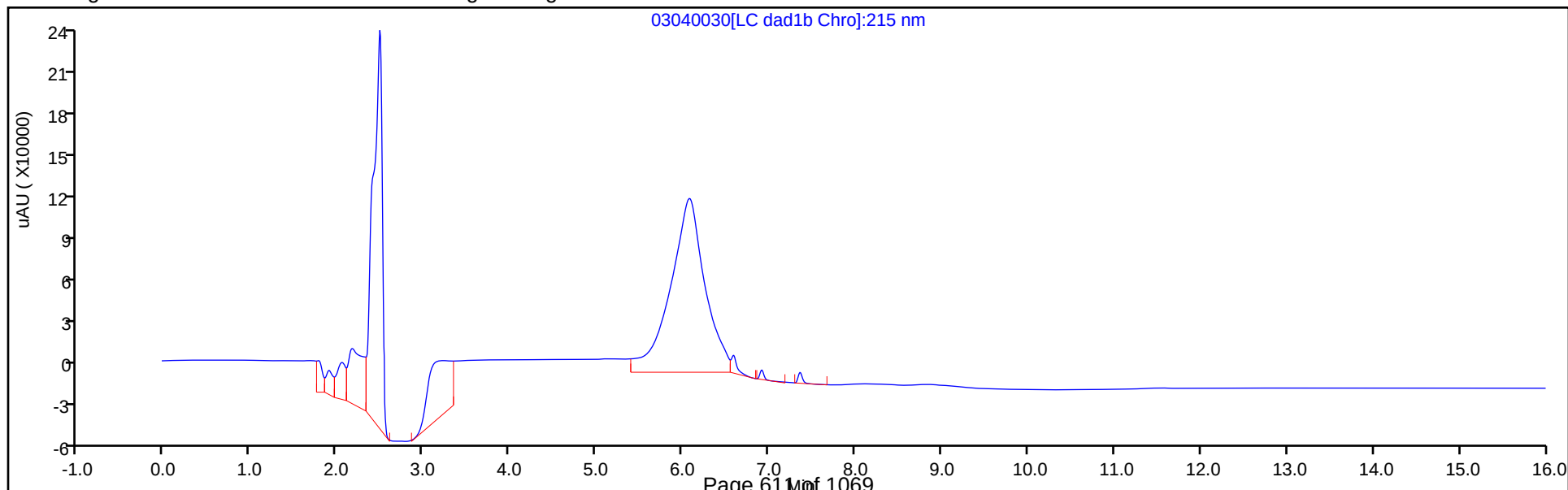
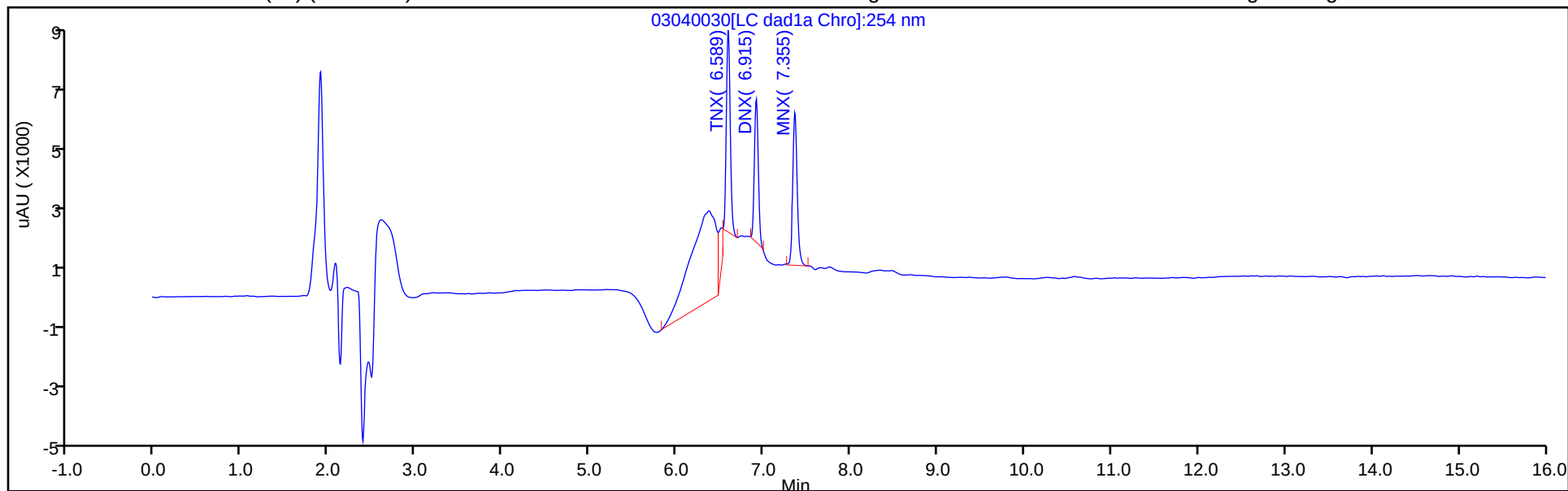
ALS Bottle#: 30

Method: 8330_X3

Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

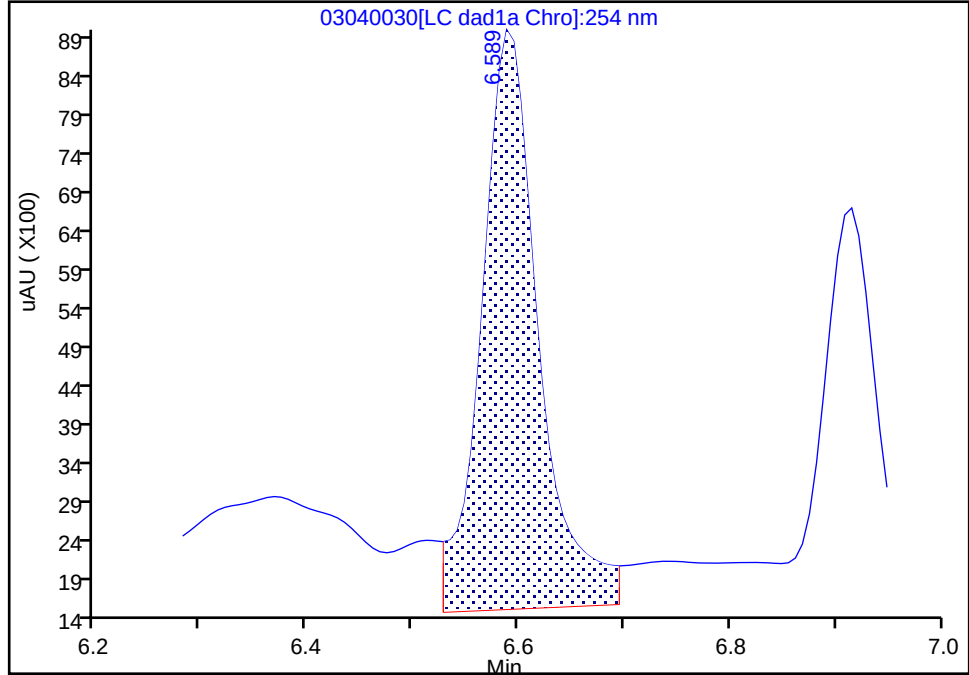
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040030.d
Injection Date: 04-Mar-2020 22:54:53 Instrument ID: CHHPLC_X3
Lims ID: IC DMT L3
Client ID:
Operator ID: CB ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

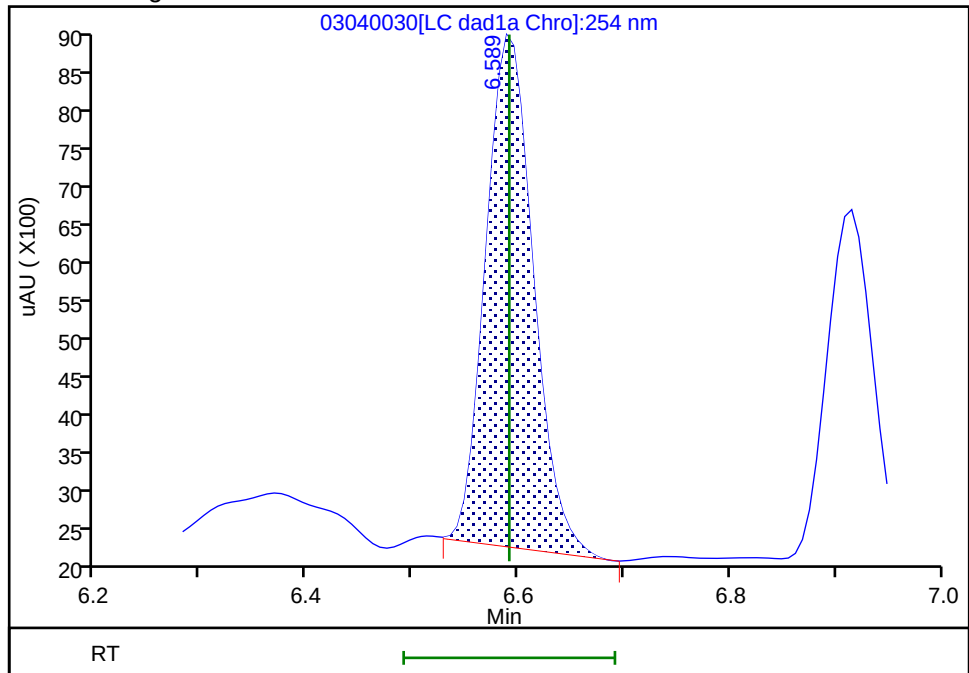
RT: 6.59
Area: 27927
Amount: 0.102862
Amount Units: ug/mL

Processing Integration Results



RT: 6.59
Area: 21002
Amount: 0.096513
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 05-Mar-2020 08:31:59
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

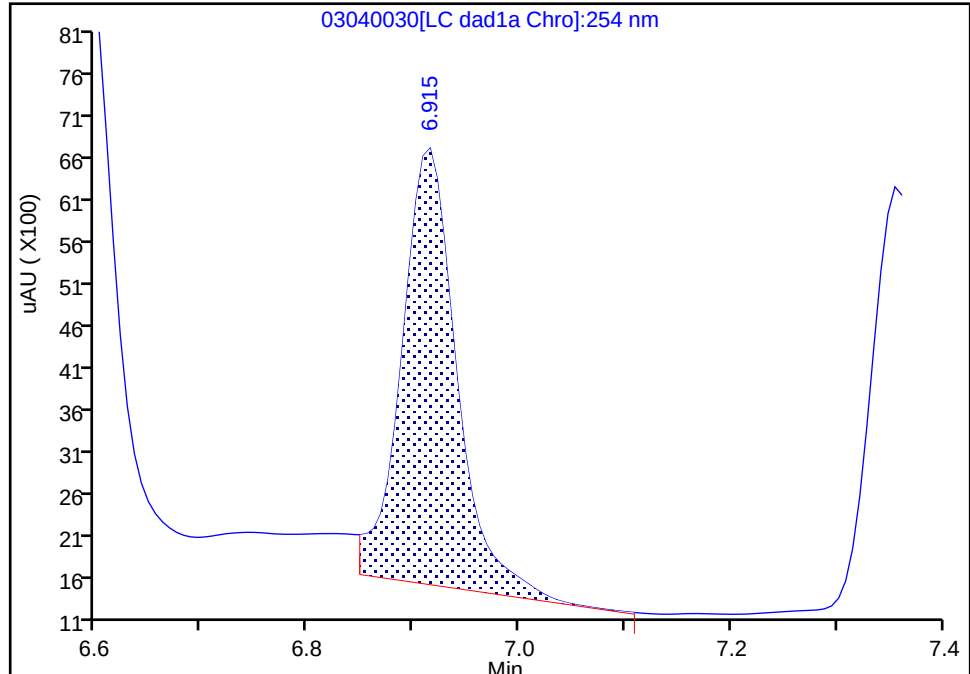
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040030.d
Injection Date: 04-Mar-2020 22:54:53 Instrument ID: CHHPLC_X3
Lims ID: IC DMT L3
Client ID:
Operator ID: CB ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

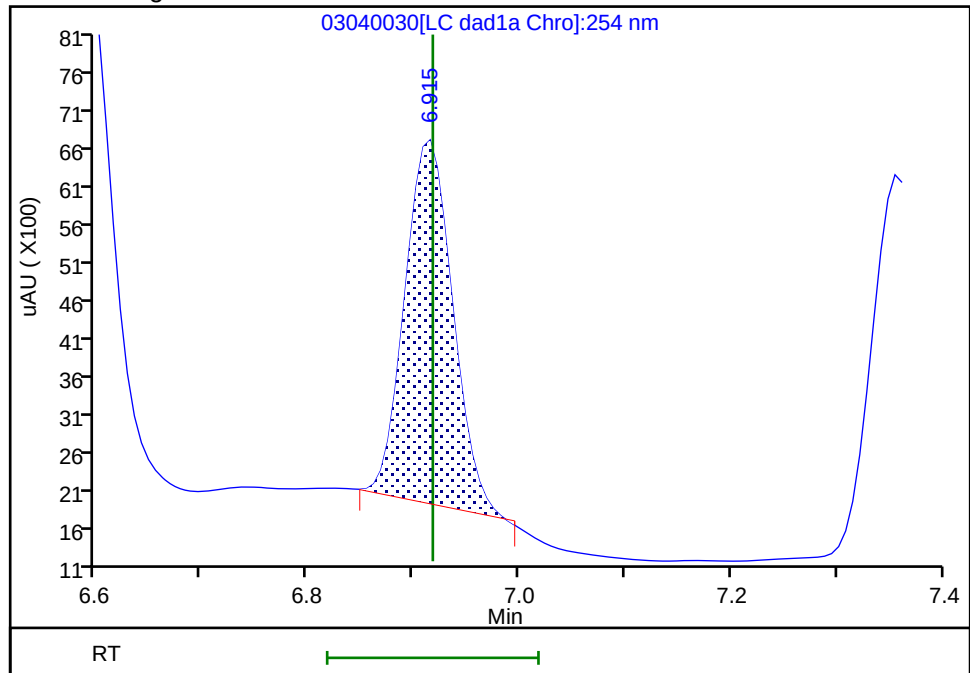
RT: 6.92
Area: 18794
Amount: 0.101797
Amount Units: ug/mL

Processing Integration Results



RT: 6.92
Area: 14937
Amount: 0.097673
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 05-Mar-2020 08:32:04

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040031.D
 Lims ID: IC DMT L2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 04-Mar-2020 23:17:52 ALS Bottle#: 31 Worklist Smp#: 31
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC DMT L2
 Misc. Info.: 280-0089779-031
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub17
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 06-Mar-2020 10:25:26 Calib Date: 04-Mar-2020 23:40:46
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX0308

First Level Reviewer: becker

Date: 05-Mar-2020 08:32:31

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.588	6.591	-0.003	10671	0.0501	0.0490	M
5 DNX	1	6.914	6.918	-0.004	6904	0.0501	0.0451	M
6 MNX	1	7.354	7.358	-0.004	9411	0.0584	0.0594	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00005

Amount Added: 2.50

Units: uL

Report Date: 06-Mar-2020 10:25:27

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040031.d

Injection Date: 04-Mar-2020 23:17:52

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC DMT L2

Worklist Smp#: 31

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

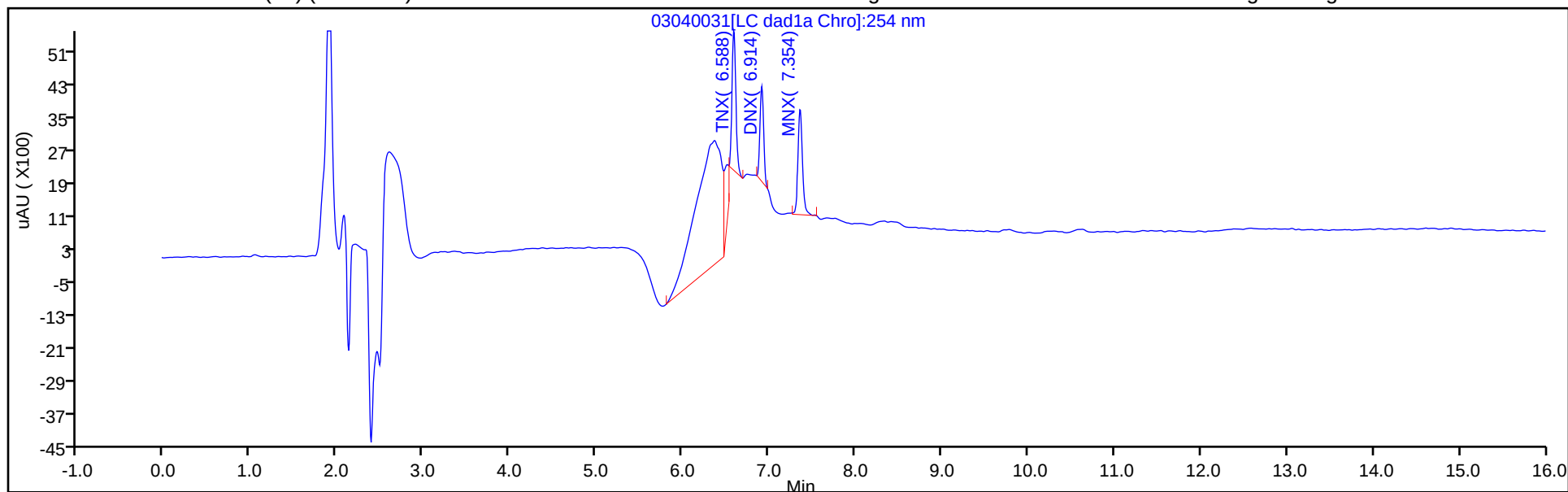
ALS Bottle#: 31

Method: 8330_X3

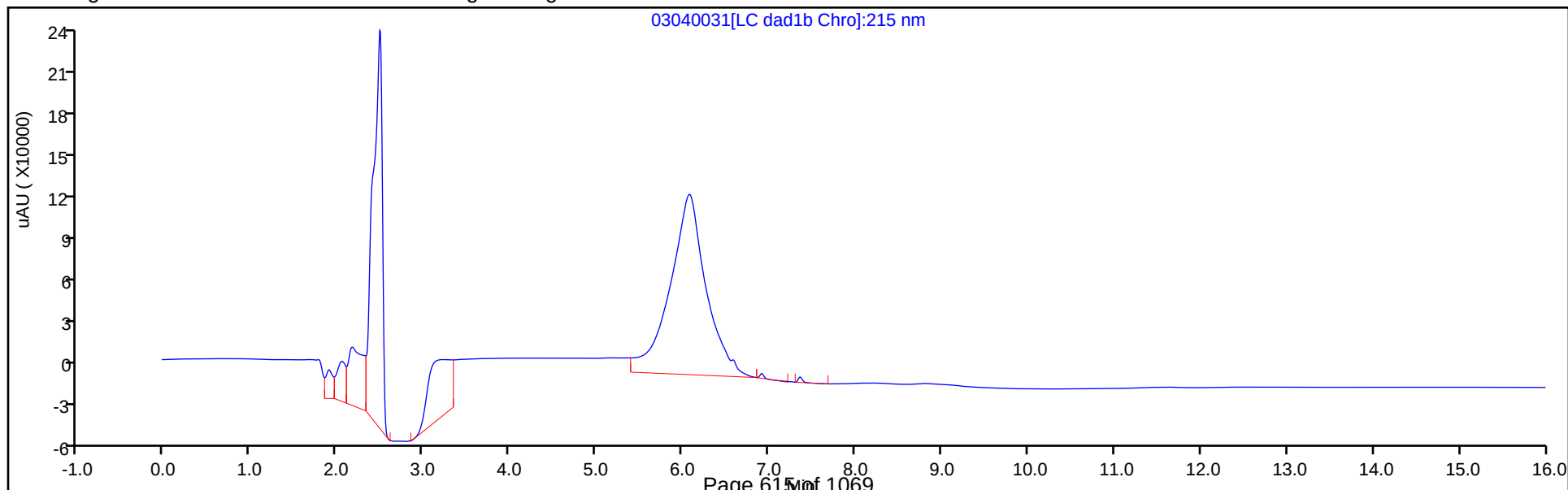
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

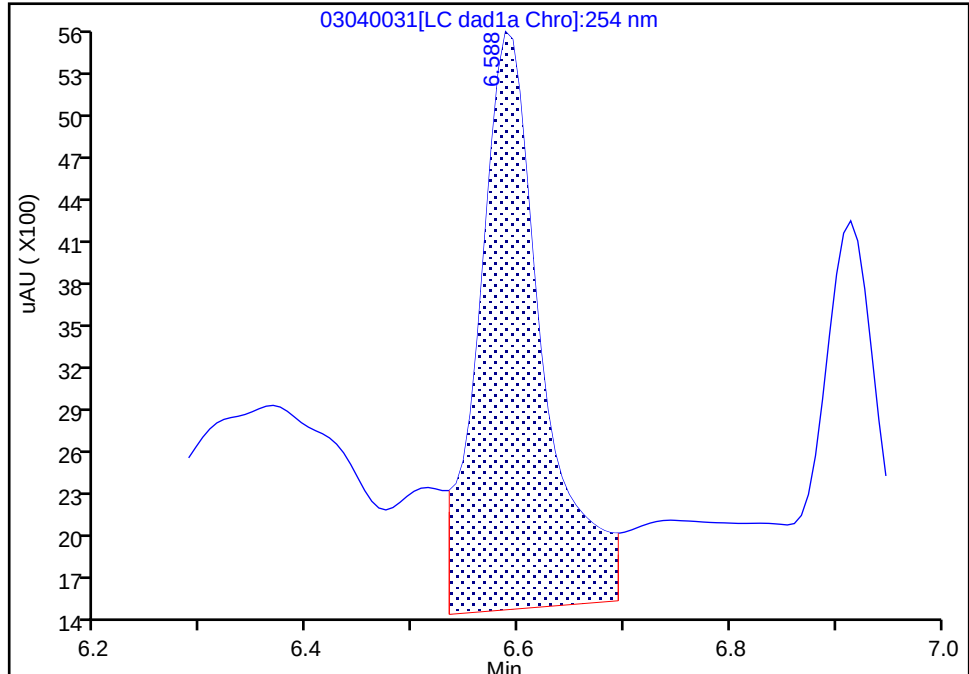
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040031.d
Injection Date: 04-Mar-2020 23:17:52 Instrument ID: CHHPLC_X3
Lims ID: IC DMT L2
Client ID:
Operator ID: CB ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

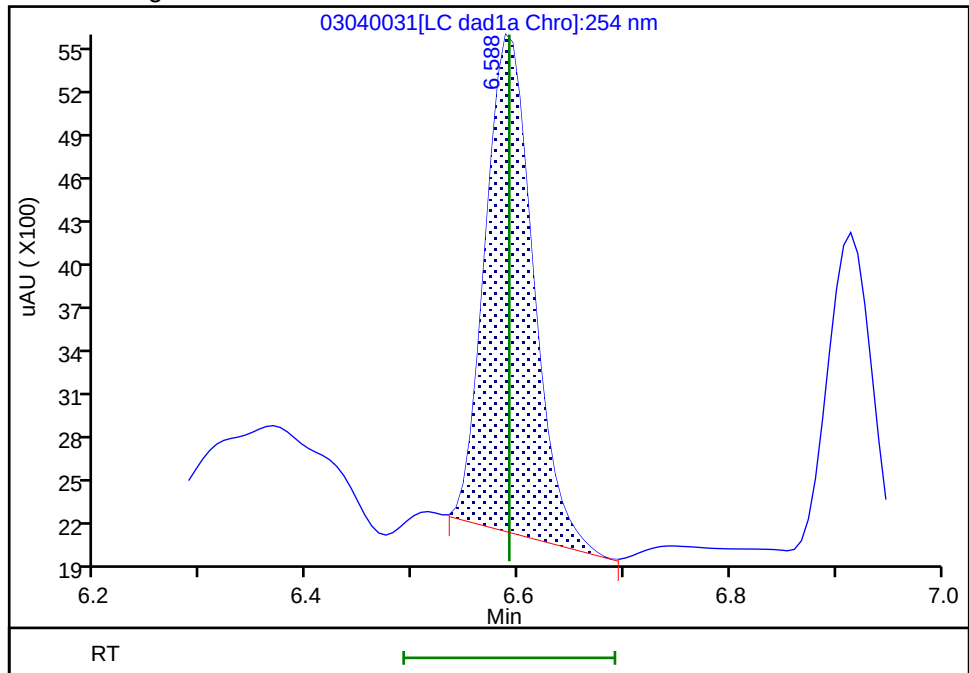
RT: 6.59
Area: 17098
Amount: 0.055915
Amount Units: ug/mL

Processing Integration Results



RT: 6.59
Area: 10671
Amount: 0.049038
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 05-Mar-2020 08:32:24

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

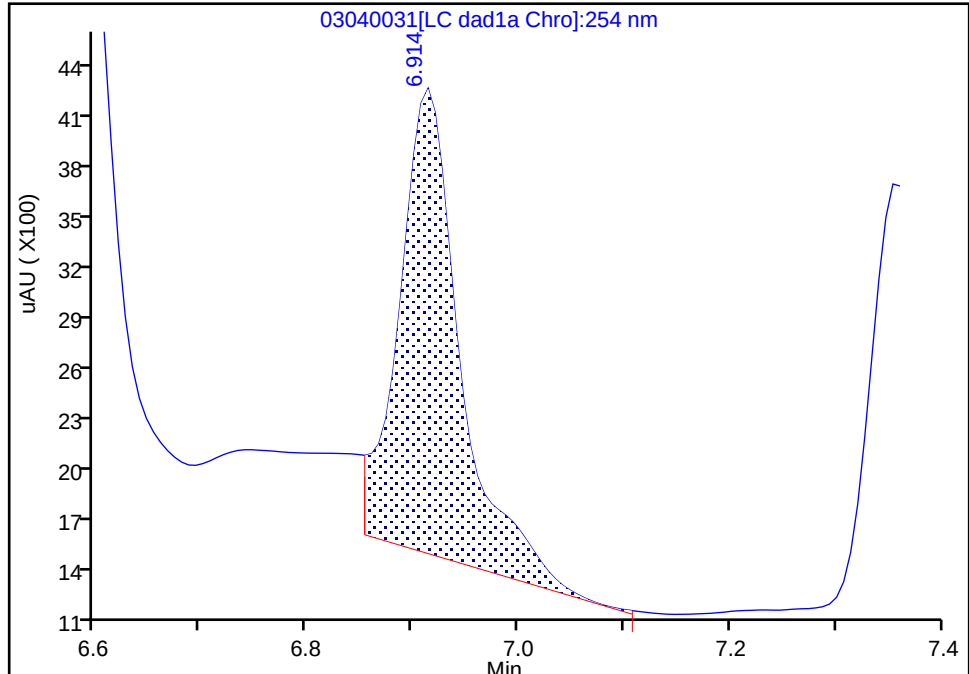
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040031.d
Injection Date: 04-Mar-2020 23:17:52 Instrument ID: CHHPLC_X3
Lims ID: IC DMT L2
Client ID:
Operator ID: CB ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

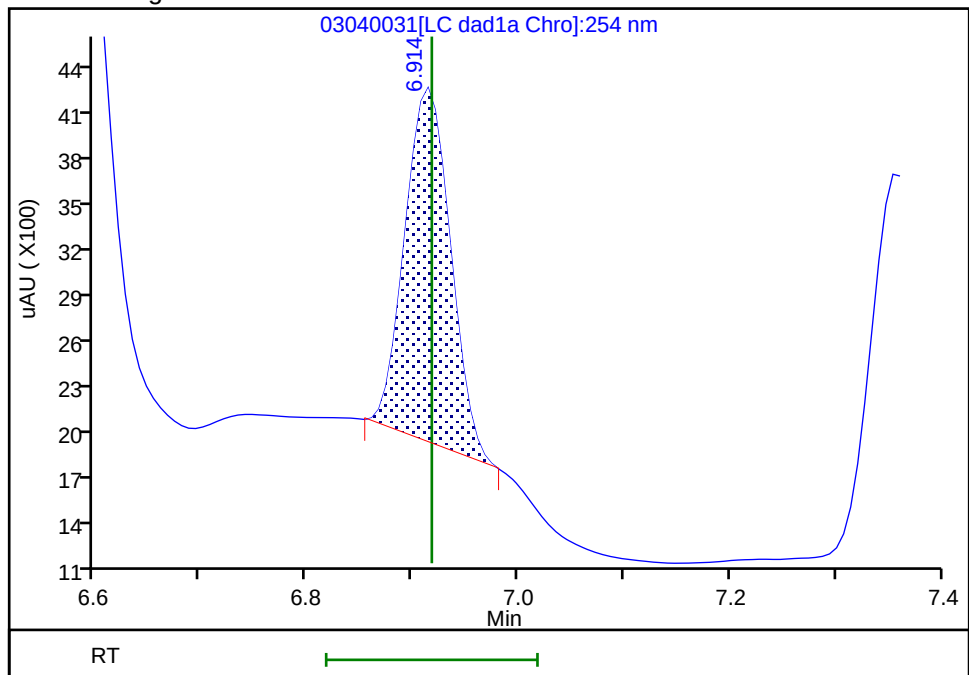
RT: 6.91
Area: 11060
Amount: 0.055514
Amount Units: ug/mL

Processing Integration Results



RT: 6.91
Area: 6904
Amount: 0.045145
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 05-Mar-2020 08:32:28
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D
 Lims ID: IC DMT L1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 04-Mar-2020 23:40:46 ALS Bottle#: 32 Worklist Smp#: 32
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC DMT L1
 Misc. Info.: 280-0089779-032
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub17
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 06-Mar-2020 10:25:27 Calib Date: 04-Mar-2020 23:40:46
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX0308

First Level Reviewer: becker

Date: 05-Mar-2020 08:32:54

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.592	6.591	0.001	4343	0.0200	0.0200	M
5 DNX	1	6.912	6.918	-0.006	2345	0.0200	0.0153	M
6 MNX	1	7.359	7.358	0.001	4099	0.0233	0.0259	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00005

Amount Added: 1.00

Units: uL

Report Date: 06-Mar-2020 10:25:28

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040032.d

Injection Date: 04-Mar-2020 23:40:46

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC DMT L1

Worklist Smp#: 32

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

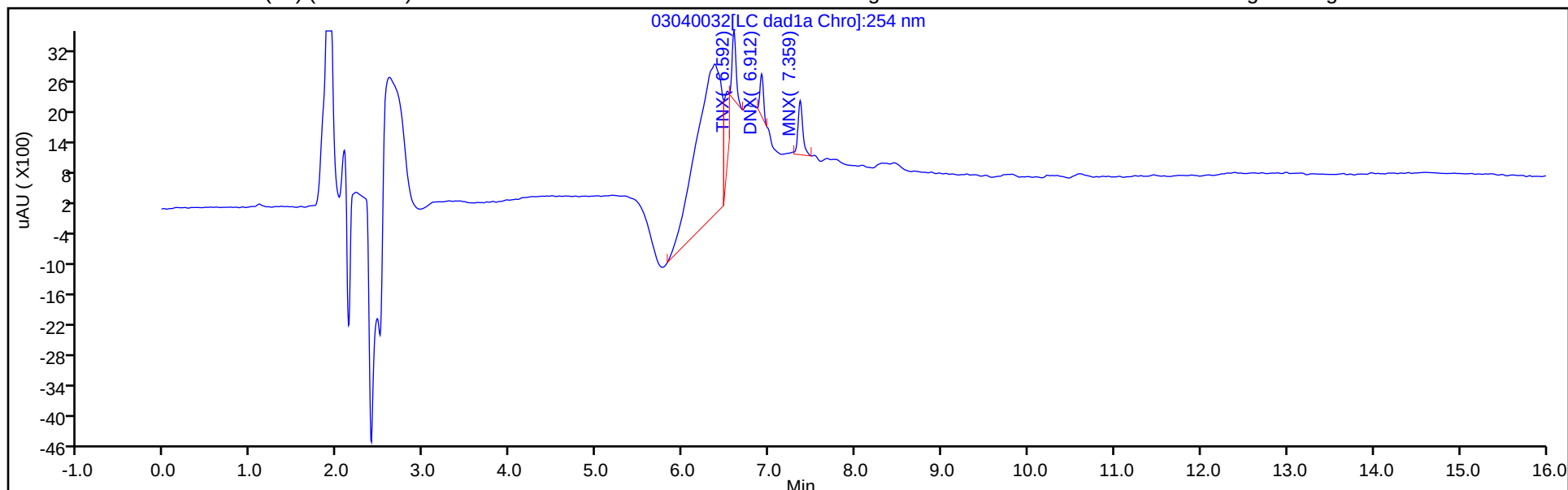
ALS Bottle#: 32

Method: 8330_X3

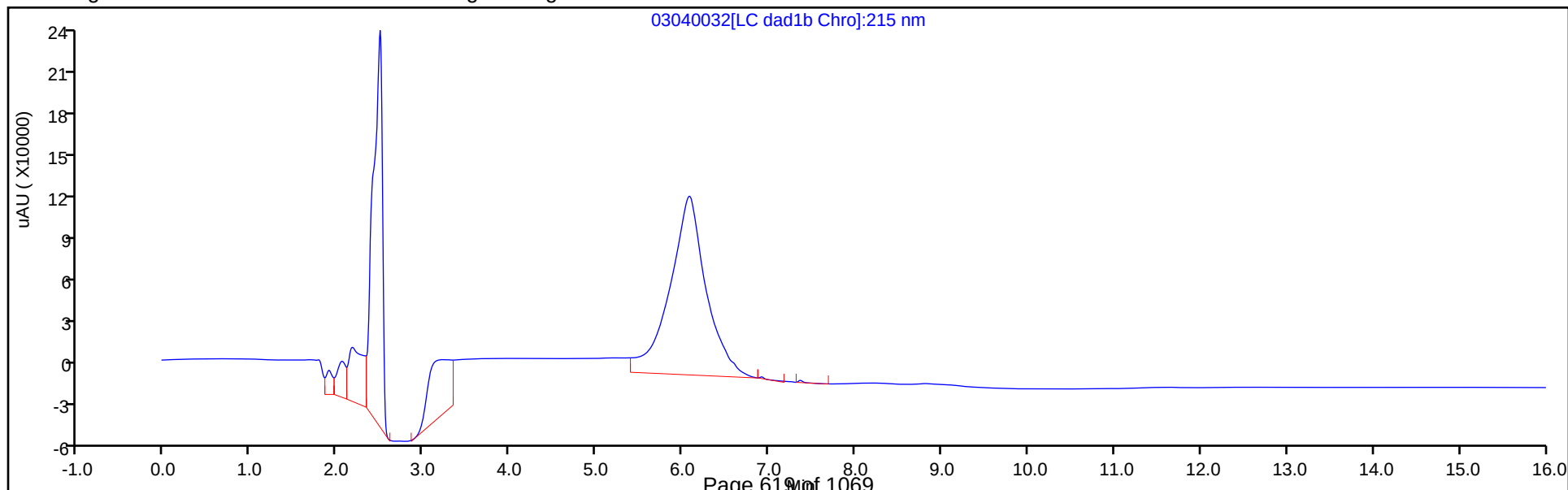
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

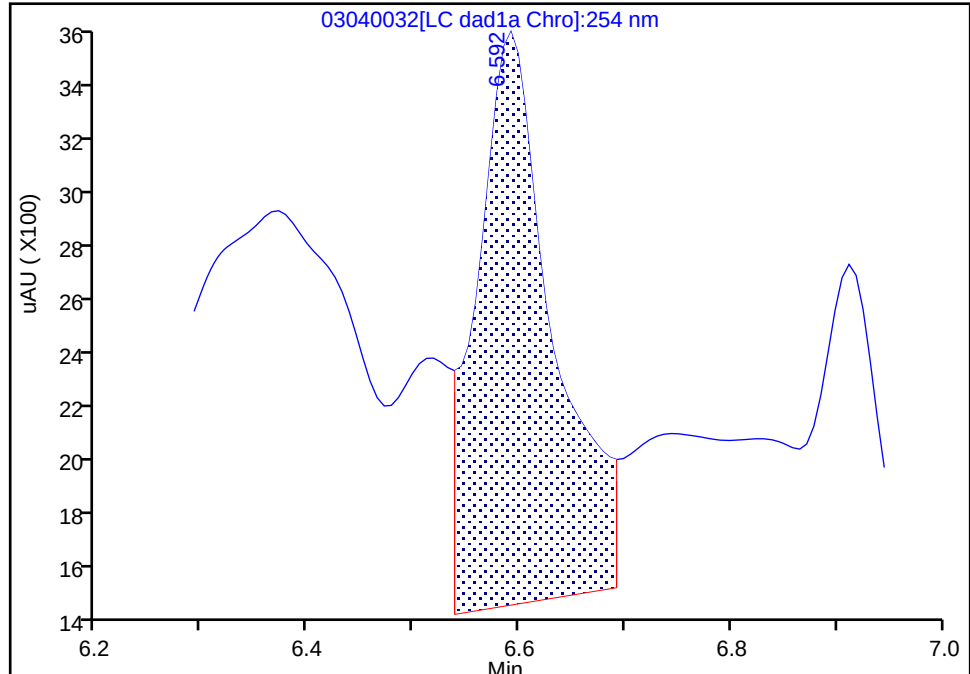
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040032.d
Injection Date: 04-Mar-2020 23:40:46 Instrument ID: CHHPLC_X3
Lims ID: IC DMT L1
Client ID:
Operator ID: CB ALS Bottle#: 32 Worklist Smp#: 32
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

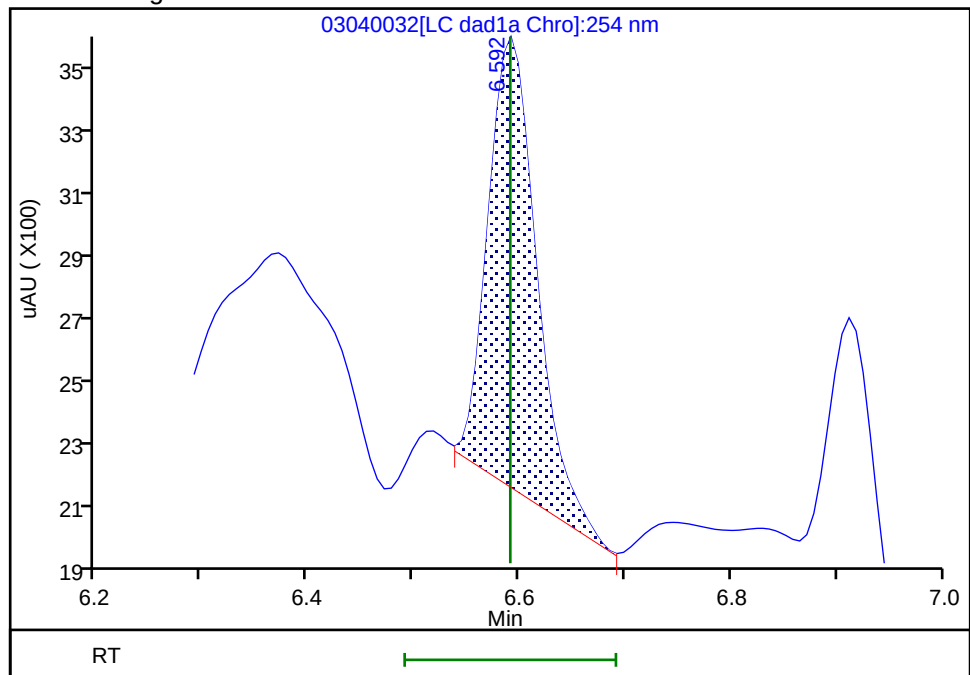
RT: 6.59
Area: 10465
Amount: 0.032149
Amount Units: ug/mL

Processing Integration Results



RT: 6.59
Area: 4343
Amount: 0.019958
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 05-Mar-2020 08:32:43

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

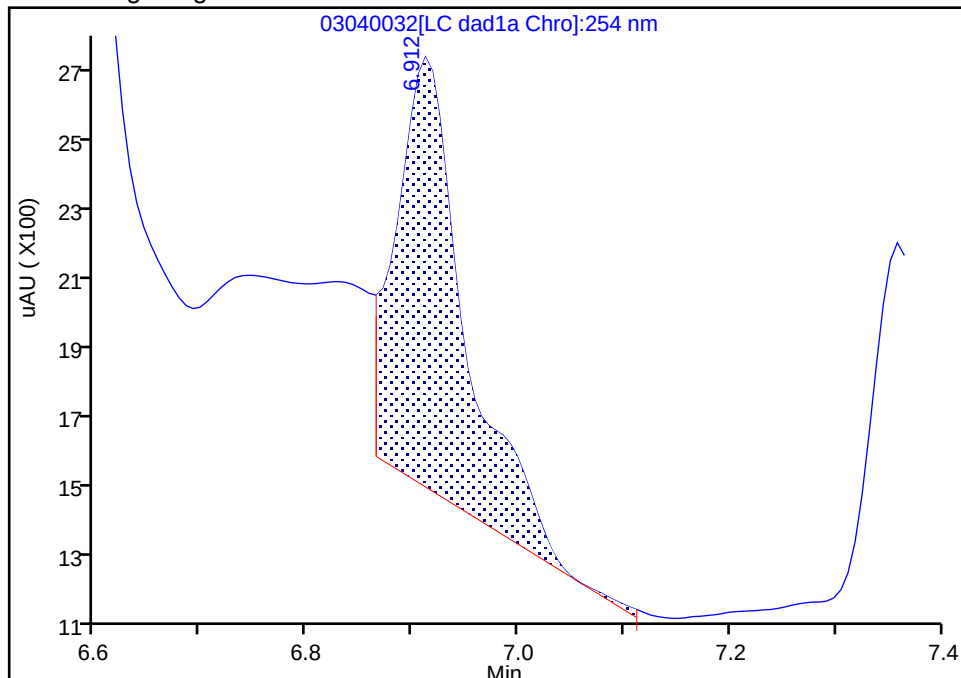
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040032.d
Injection Date: 04-Mar-2020 23:40:46 Instrument ID: CHHPLC_X3
Lims ID: IC DMT L1
Client ID:
Operator ID: CB ALS Bottle#: 32 Worklist Smp#: 32
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

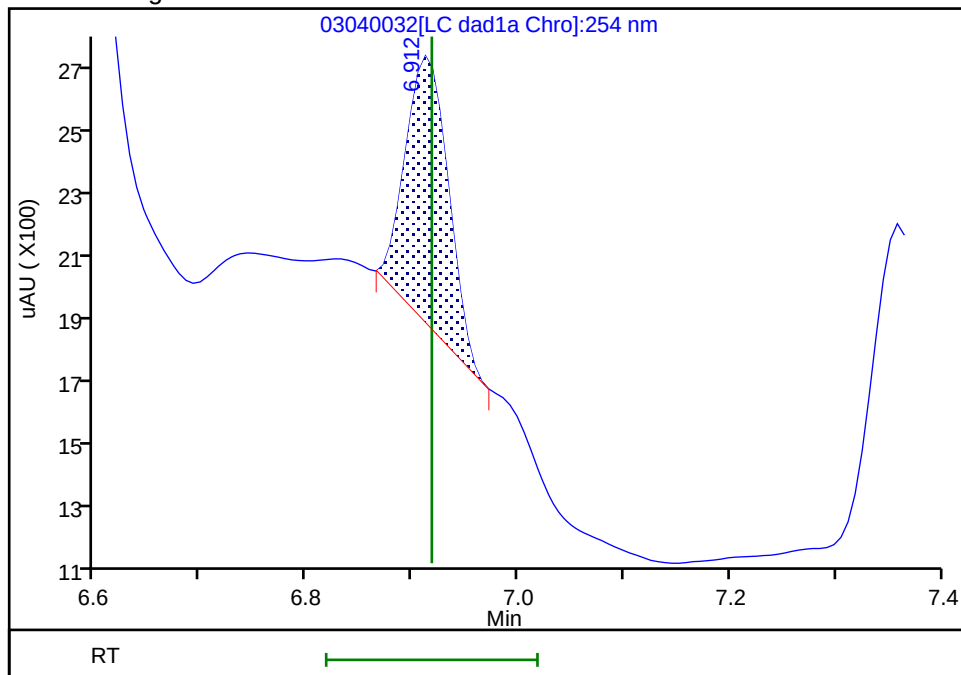
RT: 6.91
Area: 5489
Amount: 0.028357
Amount Units: ug/mL

Processing Integration Results



RT: 6.91
Area: 2345
Amount: 0.015334
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 05-Mar-2020 08:32:46

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1 Analy Batch No.: 489145

SDG No.: _____

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2020 11:35 Calibration End Date: 03/18/2020 14:39 Calibration ID: 42934

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-489145/15	03180015.D
Level 2	IC 280-489145/14	03180014.D
Level 3	IC 280-489145/13	03180013.D
Level 4	IC 280-489145/12	03180012.D
Level 5	IC 280-489145/11	03180011.D
Level 6	IC 280-489145/10	03180010.D
Level 7	IC 280-489145/9	03180009.D
Level 8	IC 280-489145/8	03180008.D
Level 9	IC 280-489145/7	03180007.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		6.689	6.687	6.689	6.688	6.687	6.687	6.687	6.678		6.539 - 6.839	6.687
RDX		7.755	7.753	7.749	7.754	7.754	7.754	7.754	7.745		7.599 - 7.899	7.752
Picric acid	8.082	8.082	8.080	8.076	8.068	8.054	8.041	8.034	7.978		7.926 - 8.226	8.055
1,3,5-Trinitrobenzene	8.888	8.889	8.887	8.883	8.888	8.887	8.881	8.887	8.878		8.733 - 9.033	8.885
1,3-Dinitrobenzene	9.535	9.535	9.533	9.529	9.534	9.527	9.527	9.534	9.525		9.379 - 9.679	9.531
Nitrobenzene	9.915	9.922	9.920	9.916	9.921	9.914	9.914	9.914	9.911		9.766 - 10.066	9.916
Tetryl	10.221	10.215	10.220	10.216	10.221	10.221	10.214	10.221	10.218		10.066 - 10.366	10.219
Nitroglycerin	10.735	10.735	10.733	10.729	10.734	10.734	10.727	10.727	10.725		10.579 - 10.879	10.731
2,4,6-Trinitrotoluene	11.195	11.189	11.186	11.183	11.194	11.187	11.181	11.187	11.185		11.083 - 11.283	11.187
4-Amino-2,6-dinitrotoluene	11.341	11.342	11.340	11.336	11.347	11.341	11.334	11.334	11.331		11.236 - 11.436	11.338
2-Amino-4,6-dinitrotoluene	11.635	11.629	11.633	11.623	11.634	11.627	11.621	11.621	11.618		11.523 - 11.723	11.627
2,6-Dinitrotoluene	11.795	11.789	11.793	11.783	11.794	11.787	11.781	11.787	11.785		11.683 - 11.883	11.788
2,4-Dinitrotoluene	11.995	11.989	11.986	11.983	11.987	11.987	11.981	11.981	11.978		11.883 - 12.083	11.985
2-Nitrotoluene	12.828	12.822	12.833	12.823	12.827	12.827	12.814	12.821	12.818		12.673 - 12.973	12.824
4-Nitrotoluene	13.268	13.269	13.260	13.256	13.261	13.261	13.254	13.254	13.251		13.106 - 13.406	13.259
3-Nitrotoluene	13.855	13.849	13.853	13.849	13.854	13.854	13.841	13.847	13.845		13.699 - 13.999	13.850
PETN		+++++	14.946	14.936	14.941	14.941	14.927	14.941	14.945		14.786 - 15.086	14.940
1,2-Dinitrobenzene	8.715	8.709	8.713	8.709	8.714	8.714	8.714	8.714	8.705		8.559 - 8.859	8.712

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1 Analy Batch No.: 489145

SDG No.: _____

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2020 11:35 Calibration End Date: 03/18/2020 14:39 Calibration ID: 42934

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-489145/15	03180015.D
Level 2	IC 280-489145/14	03180014.D
Level 3	IC 280-489145/13	03180013.D
Level 4	IC 280-489145/12	03180012.D
Level 5	IC 280-489145/11	03180011.D
Level 6	IC 280-489145/10	03180010.D
Level 7	IC 280-489145/9	03180009.D
Level 8	IC 280-489145/8	03180008.D
Level 9	IC 280-489145/7	03180007.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	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	91008 92308	61440 91473	86460 91820	90800 92351	Ave		85962.1667				12.3		20.0			
RDX	112944 111897	112680 113215	121400 111841	117010 112730	Ave		116613.070				6.7		20.0			
Picric acid	86560 86468 88192	70960 86698	86100 86851	86470 87876	Ave		85130.5476				6.3		20.0			
1,3,5-Trinitrobenzene	192016 239677 242392	193413 242552	239242 242052	236826 244610	Ave		230308.873				9.3		20.0			
1,3-Dinitrobenzene	254770 321218 326628	250299 322290	322275 320369	318333 323988	Ave		306685.717				10.0		20.0			
Nitrobenzene	173386 209084 210856	165538 209462	208865 209202	207759 209472	Ave		200402.631				8.8		20.0			
Tetryl	132854 188850 191963	139401 190152	182355 189763	184900 193048	Ave		177031.954				13.3		20.0			
Nitroglycerin	54320 73708 72647	54804 73682	66982 72630	71269 73160	Ave		68133.4679				11.7		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1 Analy Batch No.: 489145

SDG No.: _____

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2020 11:35 Calibration End Date: 03/18/2020 14:39 Calibration ID: 42934

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	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								
2,4,6-Trinitrotoluene	143984 216888 217948	171594 215762	214622 218499	217430 219552	Ave		204030.971				13.3		20.0			
4-Amino-2,6-dinitrotoluene	78402 173379 171541	137582 174883	169630 168893	172757 173075	Lin2	-1163.6365	178372.945							0.9980		0.9900
2-Amino-4,6-dinitrotoluene	169163 213685 217128	161195 213177	209223 213799	209592 218387	Ave		202816.698				10.7		20.0			
2,6-Dinitrotoluene	120159 159558 155029	119004 160244	157012 158940	158576 156549	Ave		149452.337				11.4		20.0			
2,4-Dinitrotoluene	250359 318972 321972	249960 319980	313566 317703	316753 322992	Ave		303584.095				10.0		20.0			
2-Nitrotoluene	129200 138416 134514	122720 134575	151060 133944	137330 133699	Ave		135050.876				5.6		20.0			
4-Nitrotoluene	86228 119058 116822	100160 116285	128064 116245	117874 116311	Ave		113005.083				10.9		20.0			
3-Nitrotoluene	112128 149894 149503	125035 150095	155005 148550	148232 148816	Ave		143028.635				10.0		20.0			
PETN	80472 82059	+++++ 82077	74814 81281	78947 82446	Ave		78604.5748				6.9		20.0			
1,2-Dinitrobenzene	122480 142220 143478	119840 142918	144780 142683	141270 144242	Ave		138212.217				7.1		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1 Analy Batch No.: 489145

SDG No.: _____

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2020 11:35 Calibration End Date: 03/18/2020 14:39 Calibration ID: 42934

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-489145/15	03180015.D
Level 2	IC 280-489145/14	03180014.D
Level 3	IC 280-489145/13	03180013.D
Level 4	IC 280-489145/12	03180012.D
Level 5	IC 280-489145/11	03180011.D
Level 6	IC 280-489145/10	03180010.D
Level 7	IC 280-489145/9	03180009.D
Level 8	IC 280-489145/8	03180008.D
Level 9	IC 280-489145/7	03180007.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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
HMX	Ave	36589	1536 64274	4323 92351	9080 230770	22752	0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250
RDX	Ave	45286	2817 78289	6070 112730	11701 279743	28236	0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250
Picric acid	Ave	1082 34679	1774 60796	4305 87876	8647 220480	21617	0.0125 0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250
1,3,5-Trinitrobenzene	Ave	2405 97215	4845 169775	11986 245099	23730 607193	60039	0.0125 0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
1,3-Dinitrobenzene	Ave	3191 129174	6270 224707	16146 324636	31897 818202	80465	0.0125 0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
Nitrobenzene	Ave	2176 84120	4155 147027	10485 210310	20859 529249	52480	0.0126 0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
Tetryl	Ave	1664 76213	3492 133100	9136 193434	18527 480867	47307	0.0125 0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
Nitroglycerin	Ave	6790 294728	13701 508407	33491 731600	71269 1816166	184270	0.125 4.00	0.250 7.00	0.500 10.0	1.00 25.0	2.50
2,4,6-Trinitrotoluene	Ave	1807 86650	4307 153561	10774 220430	21830 547050	54439	0.0126 0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
4-Amino-2,6-dinitrotoluene	Lin2	981 70023	3443 118343	8490 173248	17293 429281	43388	0.0125 0.400	0.0250 0.701	0.0501 1.00	0.100 2.50	0.250
2-Amino-4,6-dinitrotoluene	Ave	2123 85612	4046 150258	10503 219261	21043 544991	53635	0.0126 0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
2,6-Dinitrotoluene	Ave	1508 64354	2987 111703	7882 157175	15921 389124	40049	0.0126 0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
2,4-Dinitrotoluene	Ave	3142 128504	6274 223282	15741 324284	31802 808149	80062	0.0126 0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
2-Nitrotoluene	Ave	1615 53830	3068 93761	7553 133699	13733 336284	34604	0.0125 0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1 Analy Batch No.: 489145

SDG No.: _____

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2020 11:35 Calibration End Date: 03/18/2020 14:39 Calibration ID: 42934

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
4-Nitrotoluene	Ave	1080 46607	2509 81534	6416 116544	11811 292638	29824	0.0125 0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
3-Nitrotoluene	Ave	1403 60098	3129 104089	7758 148965	14838 374131	37511	0.0125 0.400	0.0250 0.701	0.0501 1.00	0.100 2.50	0.250
PETN	Ave	328307	+++++	37407	78947	201180	4.00	+++++	0.500	1.00	2.50
1,2-Dinitrobenzene	Ave	1531 57167	2996 99878	7239 144242	14127 358694	35555	0.0125 0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250

Curve Type Legend:

Ave = Average
Lin2 = Linear 1/conc^2

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180007.D
 Lims ID: IC MAIN L9
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 18-Mar-2020 11:35:53 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC MAIN L9
 Misc. Info.: 280-0090150-007
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 26-Mar-2020 15:45:39 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX0308

First Level Reviewer: becker

Date: 19-Mar-2020 08:41:44

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.678	6.689	-0.011	230770	2.50	2.68	M
7 RDX	1	7.745	7.749	-0.004	279743	2.50	2.40	
8 2,4,6-Trinitrophenol	1	7.978	8.076	-0.098	220480	2.50	2.59	
\$ 9 1,2-Dinitrobenzene	1	8.705	8.709	-0.004	358694	2.50	2.60	
10 1,3,5-Trinitrobenzene	1	8.878	8.883	-0.005	607193	2.51	2.64	
11 1,3-Dinitrobenzene	1	9.525	9.529	-0.004	818202	2.51	2.67	M
12 Nitrobenzene	1	9.911	9.916	-0.005	529249	2.51	2.64	
14 Tetryl	1	10.218	10.216	0.002	480867	2.51	2.72	
15 Nitroglycerin	2	10.725	10.729	-0.004	1816166	25.0	26.7	
16 2,4,6-Trinitrotoluene	1	11.185	11.183	0.002	547050	2.51	2.68	
17 4-Amino-2,6-dinitrotoluene	1	11.331	11.336	-0.005	429281	2.50	2.41	
18 2-Amino-4,6-dinitrotoluene	1	11.618	11.623	-0.005	544991	2.51	2.69	
19 2,6-Dinitrotoluene	1	11.785	11.783	0.002	389124	2.51	2.60	
20 2,4-Dinitrotoluene	1	11.978	11.983	-0.005	808149	2.51	2.66	
21 o-Nitrotoluene	1	12.818	12.823	-0.005	336284	2.50	2.49	
22 p-Nitrotoluene	1	13.251	13.256	-0.005	292638	2.51	2.59	
23 m-Nitrotoluene	1	13.845	13.849	-0.004	374131	2.50	2.62	
24 PETN	2	14.945	14.936	0.009	2051483	25.0	26.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 250.00

Units: uL

Report Date: 26-Mar-2020 15:45:39

Chrom Revision: 2.3 11-Mar-2020 18:53:20

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180007.d

Injection Date: 18-Mar-2020 11:35:53

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC MAIN L9

Worklist Smp#: 7

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

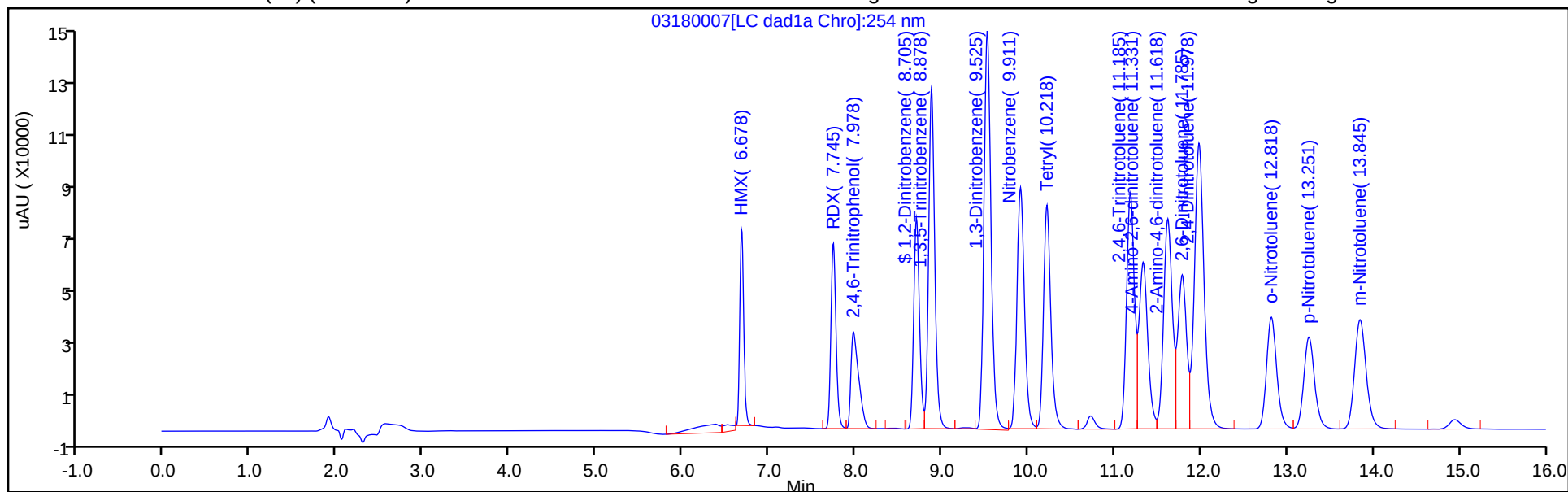
ALS Bottle#: 7

Method: 8330_X3

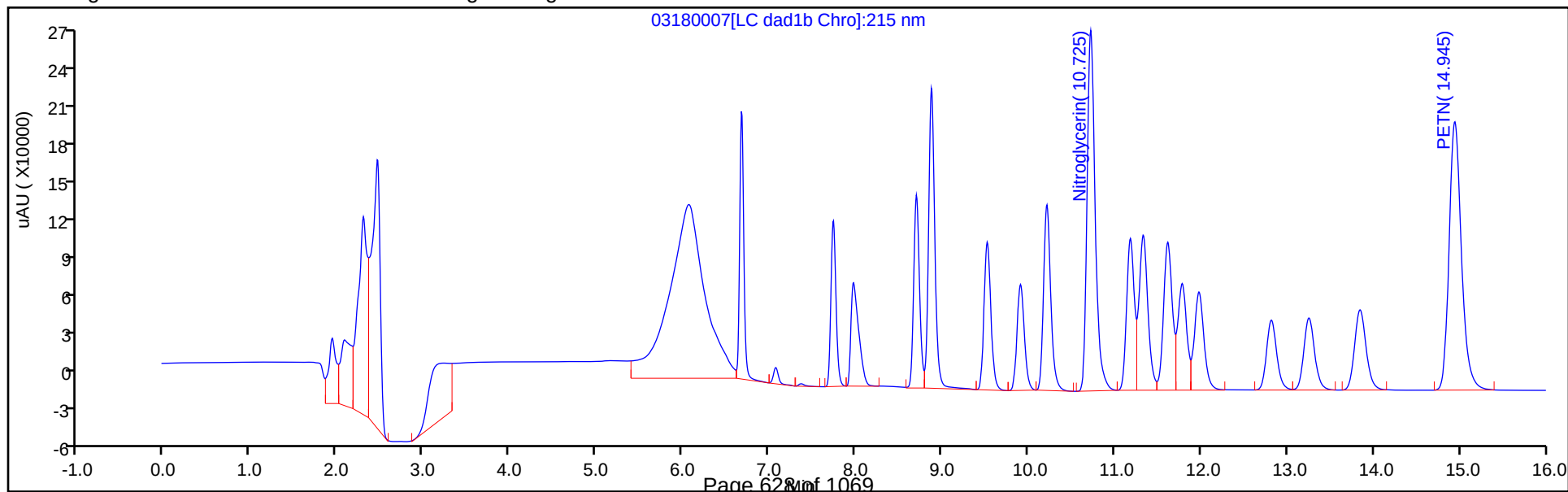
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180007.d

Injection Date: 18-Mar-2020 11:35:53

Instrument ID: CHHPLC_X3

Lims ID: IC MAIN L9

Client ID:

Operator ID: CB

ALS Bottle#:

7

Worklist Smp#: 7

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

Method: 8330_X3

Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Detector

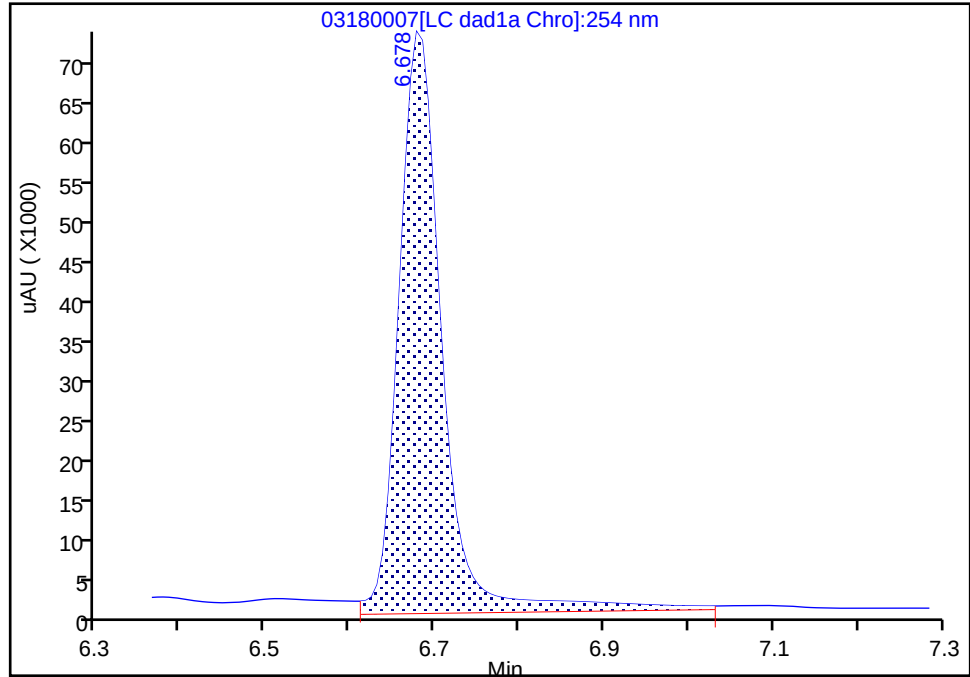
LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

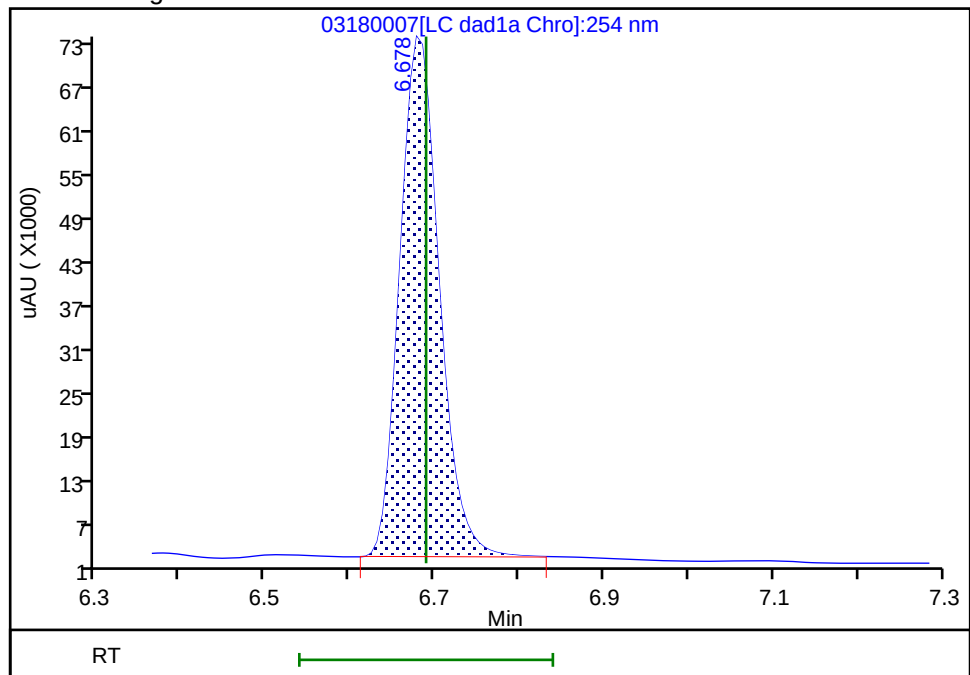
RT: 6.68
Area: 261160
Amount: 2.488946
Amount Units: ug/mL

Processing Integration Results



RT: 6.68
Area: 230770
Amount: 2.684553
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 19-Mar-2020 08:41:25

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

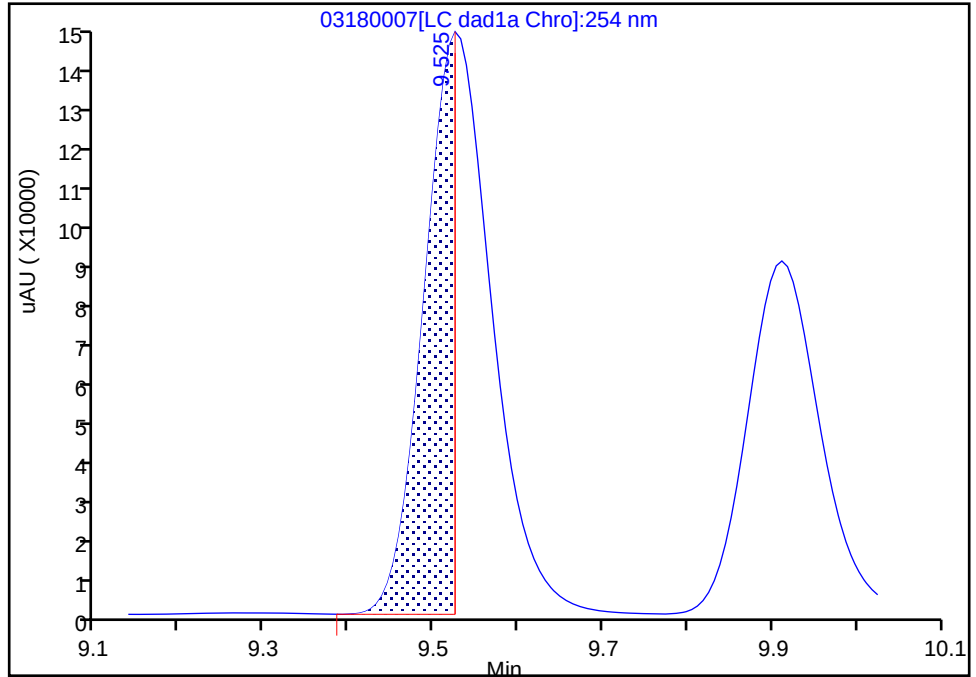
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180007.d
Injection Date: 18-Mar-2020 11:35:53 Instrument ID: CHHPLC_X3
Lims ID: IC MAIN L9
Client ID:
Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

11 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

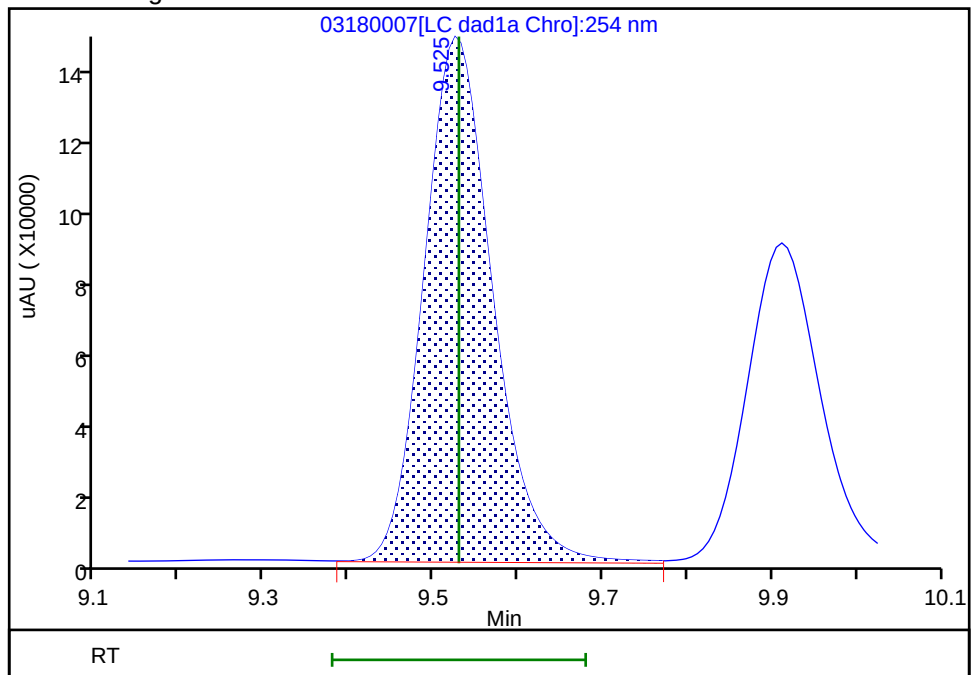
RT: 9.52
Area: 362918
Amount: 1.345398
Amount Units: ug/mL

Processing Integration Results



RT: 9.52
Area: 818202
Amount: 2.667884
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 19-Mar-2020 08:41:39
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180008.D
 Lims ID: IC MAIN L8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 18-Mar-2020 11:58:50 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC MAIN L8
 Misc. Info.: 280-0090150-008
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 26-Mar-2020 15:45:40 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX0308

First Level Reviewer: becker

Date: 19-Mar-2020 08:42:12

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.687	6.689	-0.002	92351	1.00	1.07	M
7 RDX	1	7.754	7.749	0.005	112730	1.00	0.9667	
8 2,4,6-Trinitrophenol	1	8.034	8.076	-0.042	87876	1.00	1.03	
\$ 9 1,2-Dinitrobenzene	1	8.714	8.709	0.005	144242	1.00	1.04	
10 1,3,5-Trinitrobenzene	1	8.887	8.883	0.004	245099	1.00	1.06	
11 1,3-Dinitrobenzene	1	9.534	9.529	0.005	324636	1.00	1.06	
12 Nitrobenzene	1	9.914	9.916	-0.002	210310	1.00	1.05	
14 Tetryl	1	10.221	10.216	0.005	193434	1.00	1.09	
15 Nitroglycerin	2	10.727	10.729	-0.002	731600	10.0	10.7	
16 2,4,6-Trinitrotoluene	1	11.187	11.183	0.004	220430	1.00	1.08	
17 4-Amino-2,6-dinitrotoluene	1	11.334	11.336	-0.002	173248	1.00	0.9778	
18 2-Amino-4,6-dinitrotoluene	1	11.621	11.623	-0.002	219261	1.00	1.08	
19 2,6-Dinitrotoluene	1	11.787	11.783	0.004	157175	1.00	1.05	
20 2,4-Dinitrotoluene	1	11.981	11.983	-0.002	324284	1.00	1.07	
21 o-Nitrotoluene	1	12.821	12.823	-0.002	133699	1.00	0.9900	
22 p-Nitrotoluene	1	13.254	13.256	-0.002	116544	1.00	1.03	
23 m-Nitrotoluene	1	13.847	13.849	-0.002	148965	1.00	1.04	
24 PETN	2	14.941	14.936	0.005	824461	10.0	10.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 100.00

Units: uL

Report Date: 26-Mar-2020 15:45:40

Chrom Revision: 2.3 11-Mar-2020 18:53:20

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180008.d

Injection Date: 18-Mar-2020 11:58:50

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC MAIN L8

Worklist Smp#: 8

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

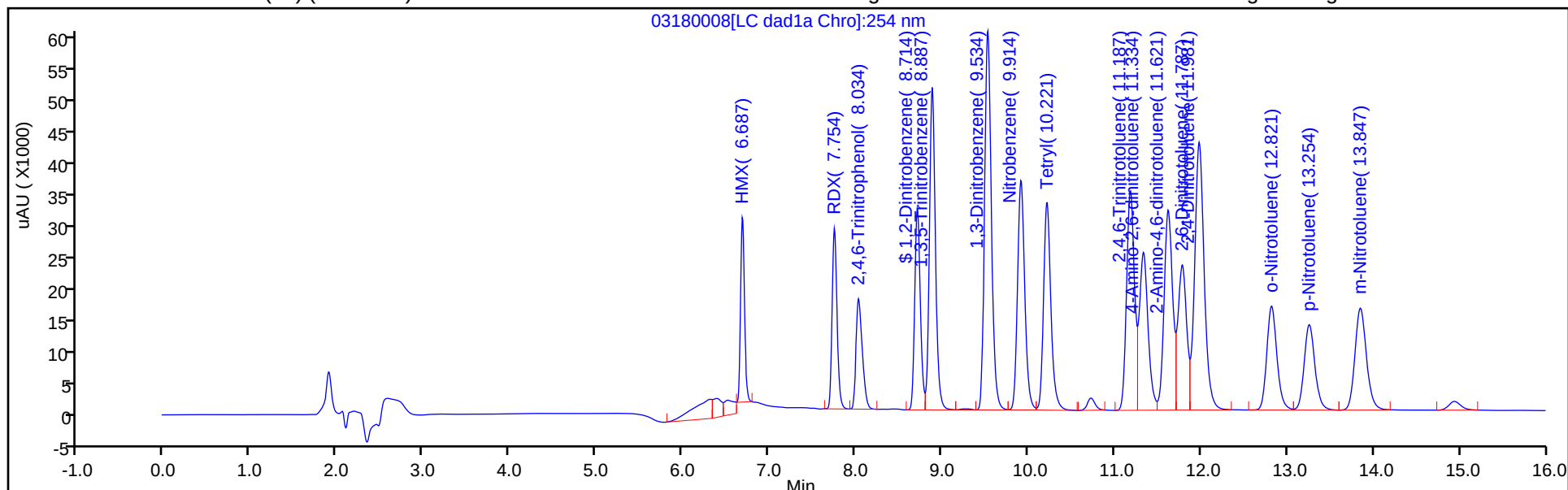
ALS Bottle#: 8

Method: 8330_X3

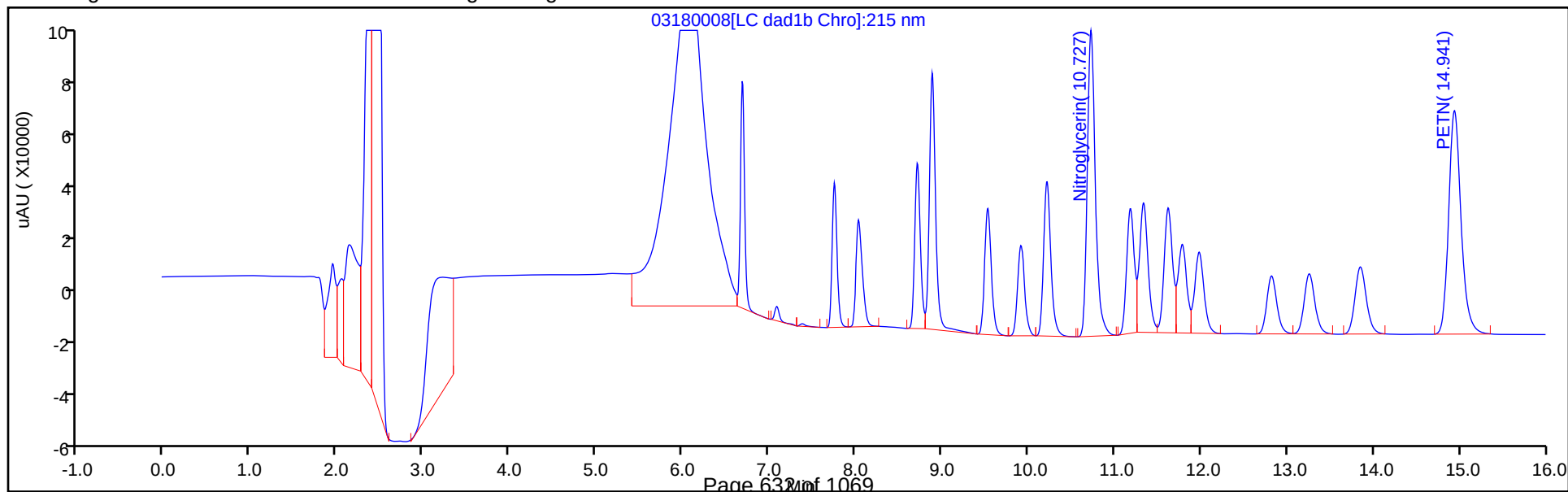
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

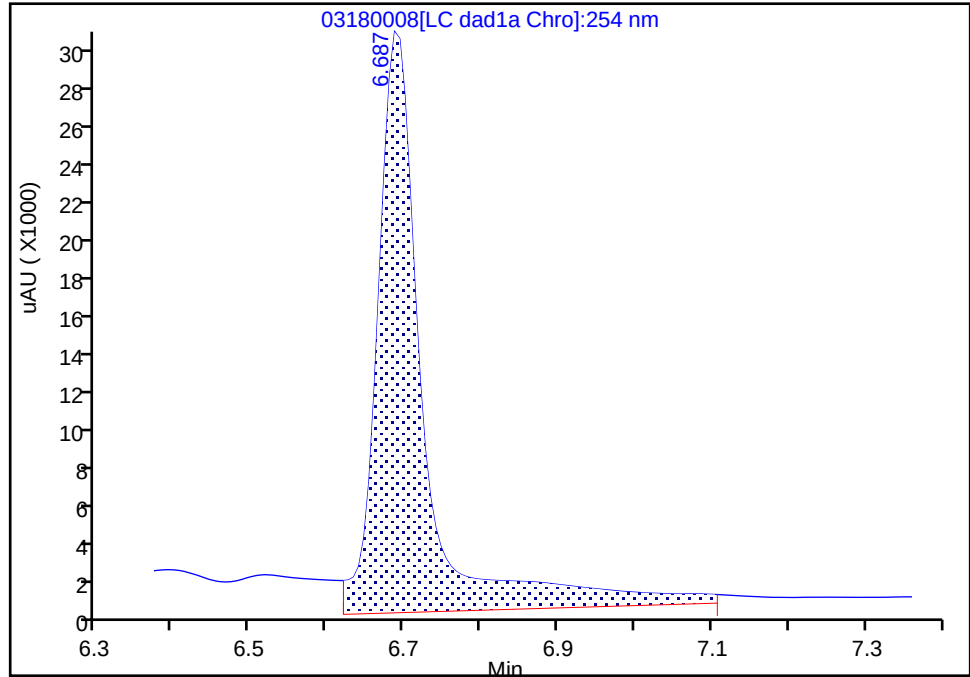
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180008.d
Injection Date: 18-Mar-2020 11:58:50 Instrument ID: CHHPLC_X3
Lims ID: IC MAIN L8
Client ID:
Operator ID: CB ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

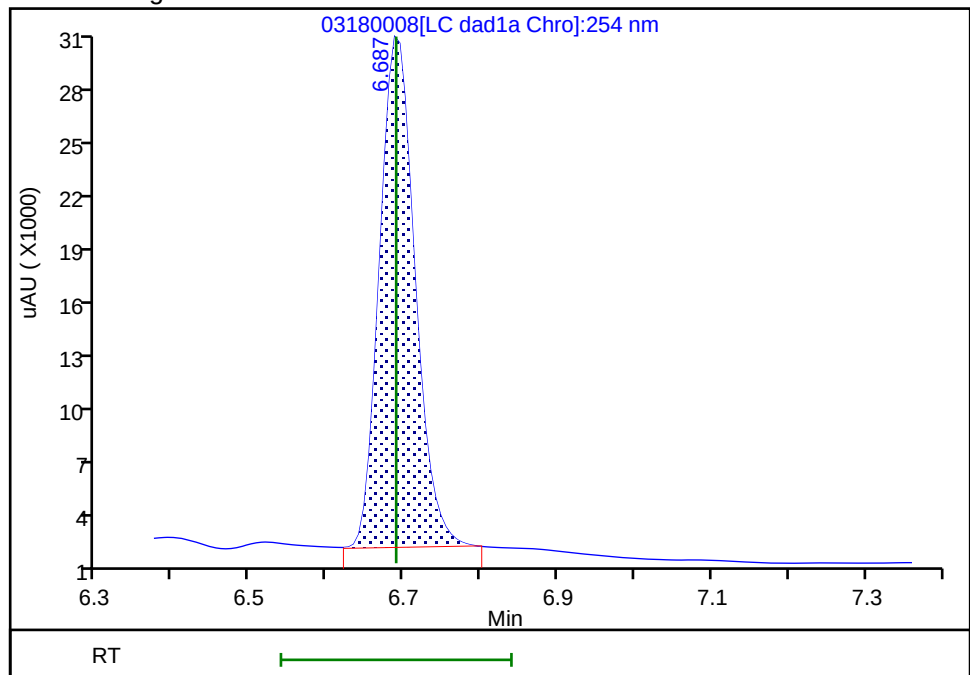
RT: 6.69
Area: 128593
Amount: 1.149770
Amount Units: ug/mL

Processing Integration Results



RT: 6.69
Area: 92351
Amount: 1.074321
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 19-Mar-2020 08:41:59

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180009.D
 Lims ID: IC MAIN L7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 18-Mar-2020 12:21:47 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC MAIN L7
 Misc. Info.: 280-0090150-009
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 26-Mar-2020 15:45:41 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX0308

First Level Reviewer: becker

Date: 19-Mar-2020 08:42:38

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.687	6.689	-0.002	64274	0.7000	0.7477	M
7 RDX	1	7.754	7.749	0.005	78289	0.7000	0.6714	
8 2,4,6-Trinitrophenol	1	8.041	8.076	-0.035	60796	0.7000	0.7142	
\$ 9 1,2-Dinitrobenzene	1	8.714	8.709	0.005	99878	0.7000	0.7226	
10 1,3,5-Trinitrobenzene	1	8.881	8.883	-0.002	169775	0.7014	0.7372	
11 1,3-Dinitrobenzene	1	9.527	9.529	-0.002	224707	0.7014	0.7327	
12 Nitrobenzene	1	9.914	9.916	-0.002	147027	0.7028	0.7337	
14 Tetryl	1	10.214	10.216	-0.002	133100	0.7014	0.7518	
15 Nitroglycerin	2	10.727	10.729	-0.002	508407	7.00	7.46	
16 2,4,6-Trinitrotoluene	1	11.181	11.183	-0.002	153561	0.7028	0.7526	
17 4-Amino-2,6-dinitrotoluene	1	11.334	11.336	-0.002	118343	0.7007	0.6700	
18 2-Amino-4,6-dinitrotoluene	1	11.621	11.623	-0.002	150258	0.7028	0.7409	
19 2,6-Dinitrotoluene	1	11.781	11.783	-0.002	111703	0.7028	0.7474	
20 2,4-Dinitrotoluene	1	11.981	11.983	-0.002	223282	0.7028	0.7355	
21 o-Nitrotoluene	1	12.814	12.823	-0.009	93761	0.7000	0.6943	
22 p-Nitrotoluene	1	13.254	13.256	-0.002	81534	0.7014	0.7215	
23 m-Nitrotoluene	1	13.841	13.849	-0.008	104089	0.7007	0.7277	
24 PETN	2	14.927	14.936	-0.009	568970	7.00	7.24	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 70.00

Units: uL

Report Date: 26-Mar-2020 15:45:41

Chrom Revision: 2.3 11-Mar-2020 18:53:20

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180009.d

Injection Date: 18-Mar-2020 12:21:47

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC MAIN L7

Worklist Smp#: 9

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

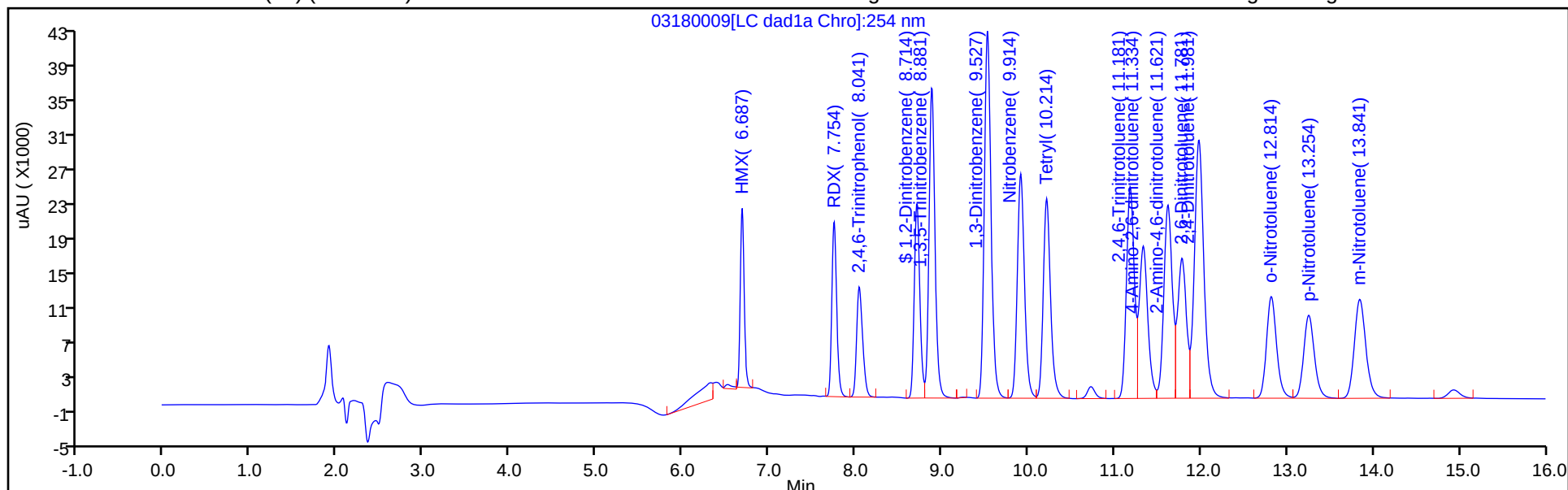
ALS Bottle#: 9

Method: 8330_X3

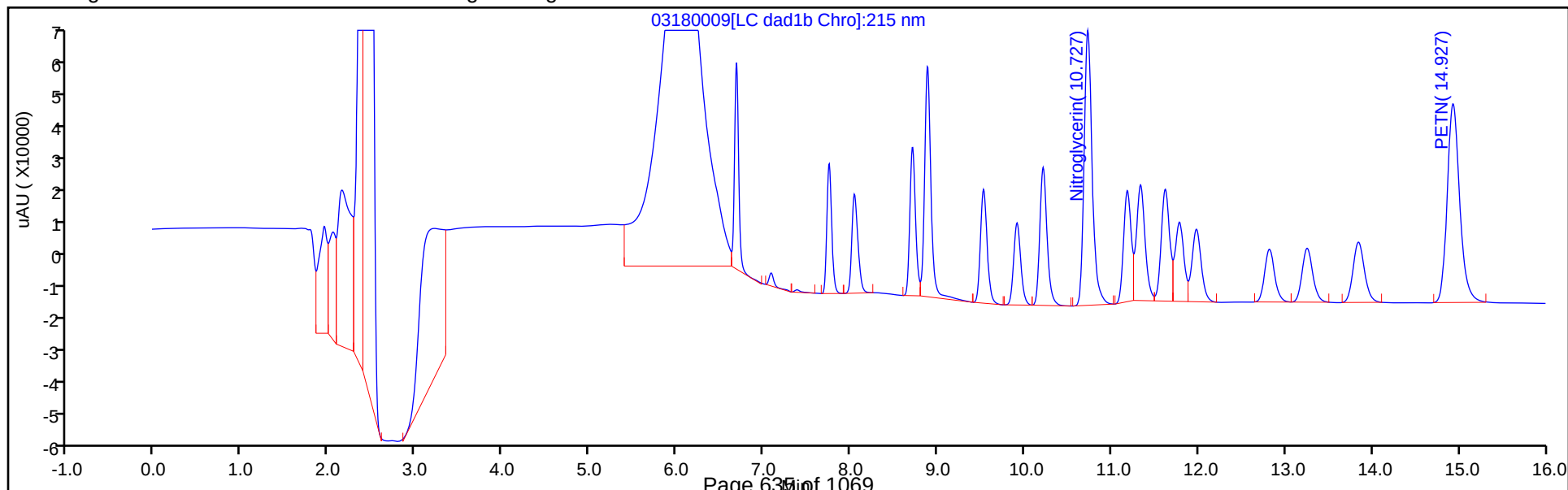
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180009.d

Injection Date: 18-Mar-2020 12:21:47

Instrument ID: CHHPLC_X3

Lims ID: IC MAIN L7

Client ID:

Operator ID: CB

ALS Bottle#:

9

Worklist Smp#: 9

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

Method: 8330_X3

Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

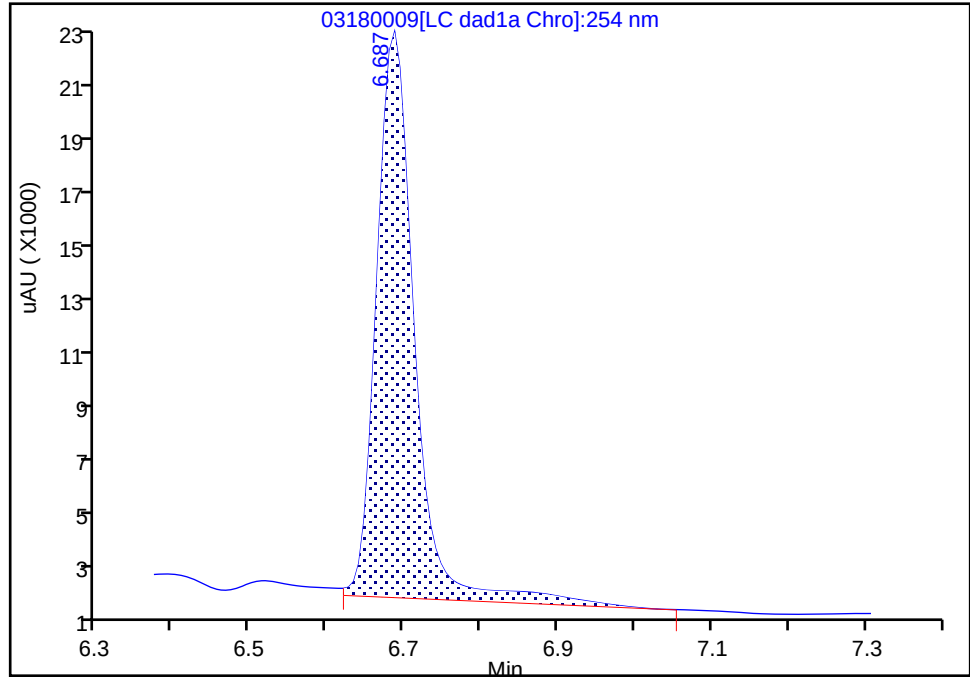
Detector: LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

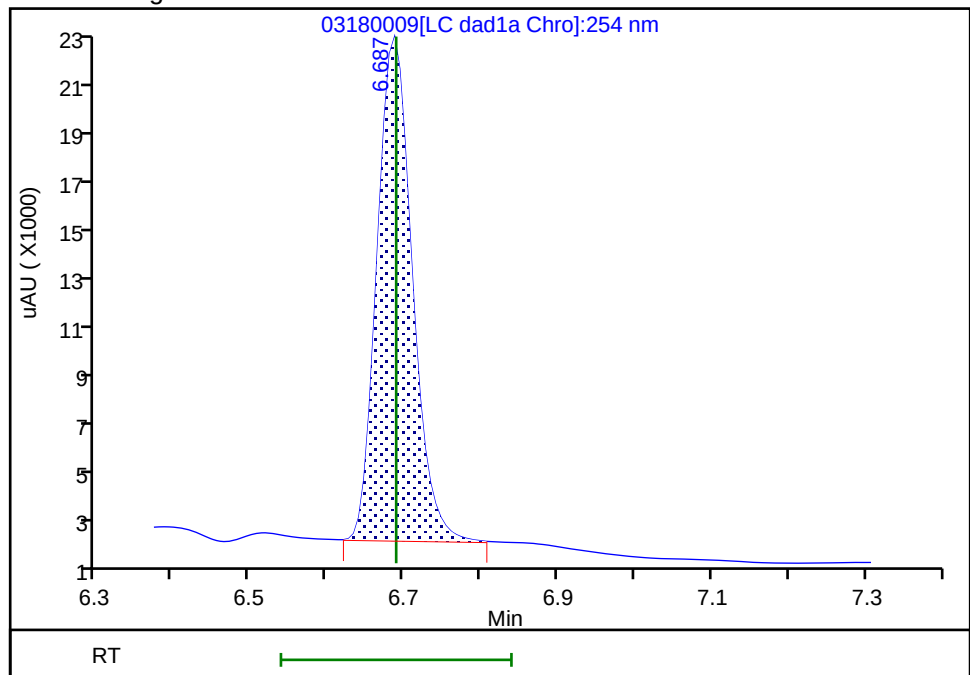
RT: 6.69
Area: 70764
Amount: 0.364265
Amount Units: ug/mL

Processing Integration Results



RT: 6.69
Area: 64274
Amount: 0.747701
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 19-Mar-2020 08:42:26

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180010.D
 Lims ID: IC MAIN L6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 18-Mar-2020 12:44:45 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC MAIN L6
 Misc. Info.: 280-0090150-010
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 26-Mar-2020 15:45:41 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX0308

First Level Reviewer: becker

Date: 19-Mar-2020 08:43:13

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.687	6.689	-0.002	36589	0.4000	0.4256	M
7 RDX	1	7.754	7.749	0.005	45286	0.4000	0.3883	
8 2,4,6-Trinitrophenol	1	8.054	8.076	-0.022	34679	0.4000	0.4074	
\$ 9 1,2-Dinitrobenzene	1	8.714	8.709	0.005	57167	0.4000	0.4136	
10 1,3,5-Trinitrobenzene	1	8.887	8.883	0.004	97215	0.4008	0.4221	
11 1,3-Dinitrobenzene	1	9.527	9.529	-0.002	129174	0.4008	0.4212	
12 Nitrobenzene	1	9.914	9.916	-0.002	84120	0.4016	0.4198	
14 Tetryl	1	10.221	10.216	0.005	76213	0.4008	0.4305	
15 Nitroglycerin	2	10.734	10.729	0.005	294728	4.00	4.33	
16 2,4,6-Trinitrotoluene	1	11.187	11.183	0.004	86650	0.4016	0.4247	
17 4-Amino-2,6-dinitrotoluene	1	11.341	11.336	0.005	70023	0.4004	0.3991	
18 2-Amino-4,6-dinitrotoluene	1	11.627	11.623	0.004	85612	0.4016	0.4221	
19 2,6-Dinitrotoluene	1	11.787	11.783	0.004	64354	0.4016	0.4306	
20 2,4-Dinitrotoluene	1	11.987	11.983	0.004	128504	0.4016	0.4233	
21 o-Nitrotoluene	1	12.827	12.823	0.004	53830	0.4000	0.3986	
22 p-Nitrotoluene	1	13.261	13.256	0.005	46607	0.4008	0.4124	
23 m-Nitrotoluene	1	13.854	13.849	0.005	60098	0.4004	0.4202	
24 PETN	2	14.941	14.936	0.005	328307	4.00	4.18	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 40.00

Units: uL

Report Date: 26-Mar-2020 15:45:42

Chrom Revision: 2.3 11-Mar-2020 18:53:20

Euofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180010.d

Injection Date: 18-Mar-2020 12:44:45

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC MAIN L6

Worklist Smp#: 10

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

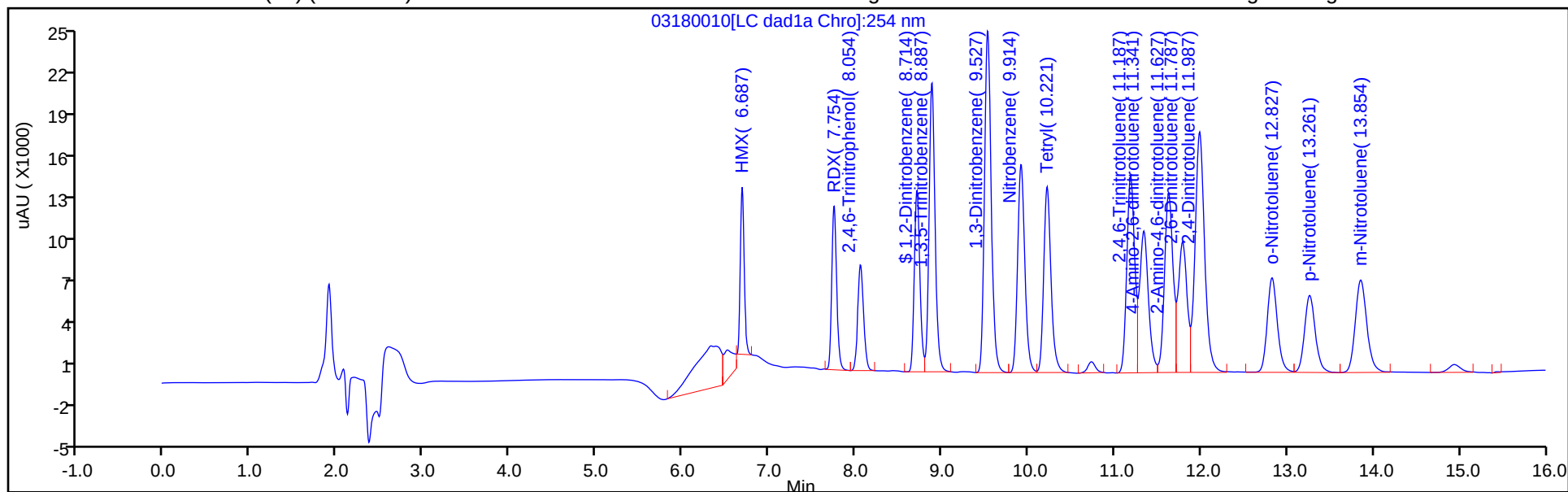
ALS Bottle#: 10

Method: 8330_X3

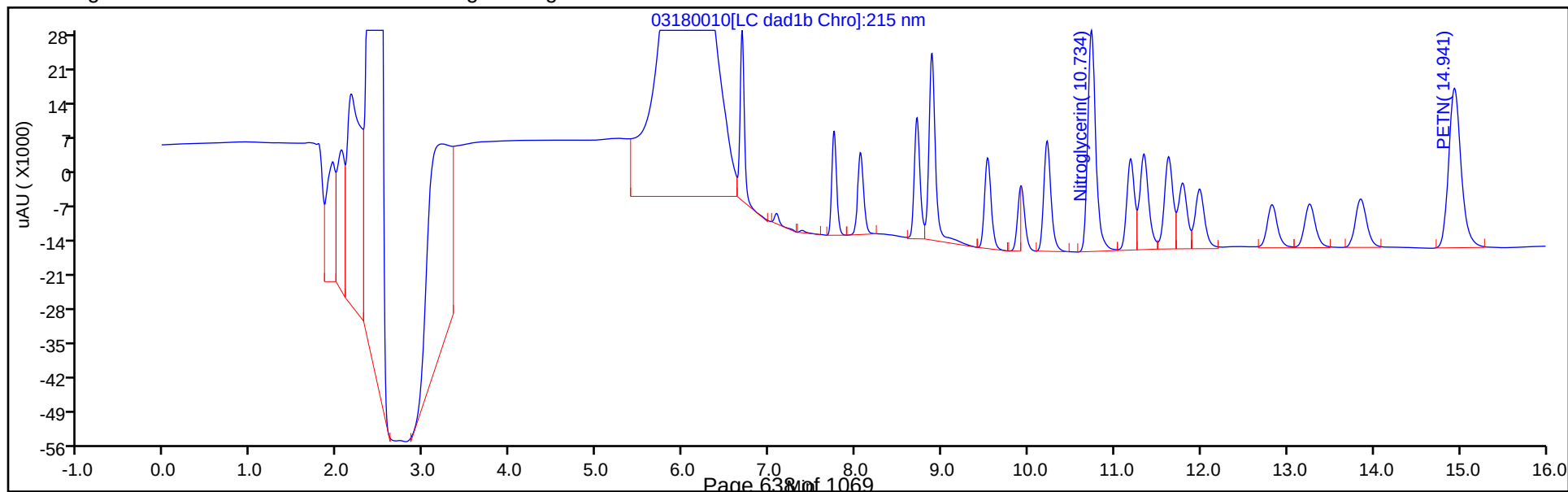
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180010.d

Injection Date: 18-Mar-2020 12:44:45

Instrument ID: CHHPLC_X3

Lims ID: IC MAIN L6

Client ID:

Operator ID: CB

ALS Bottle#:

10

Worklist Smp#: 10

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

Method: 8330_X3

Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Detector

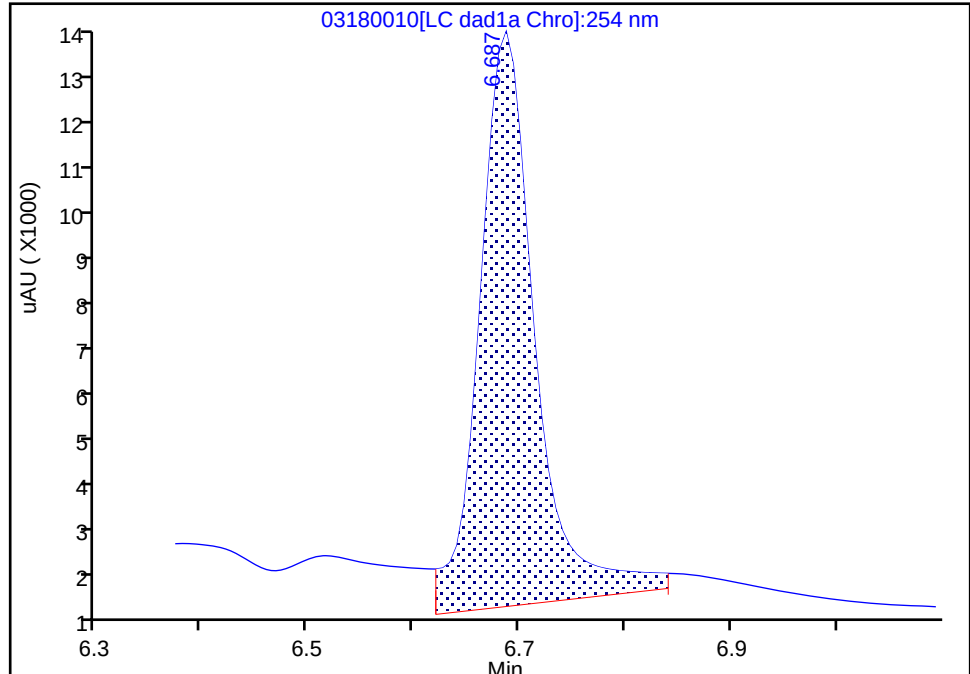
LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

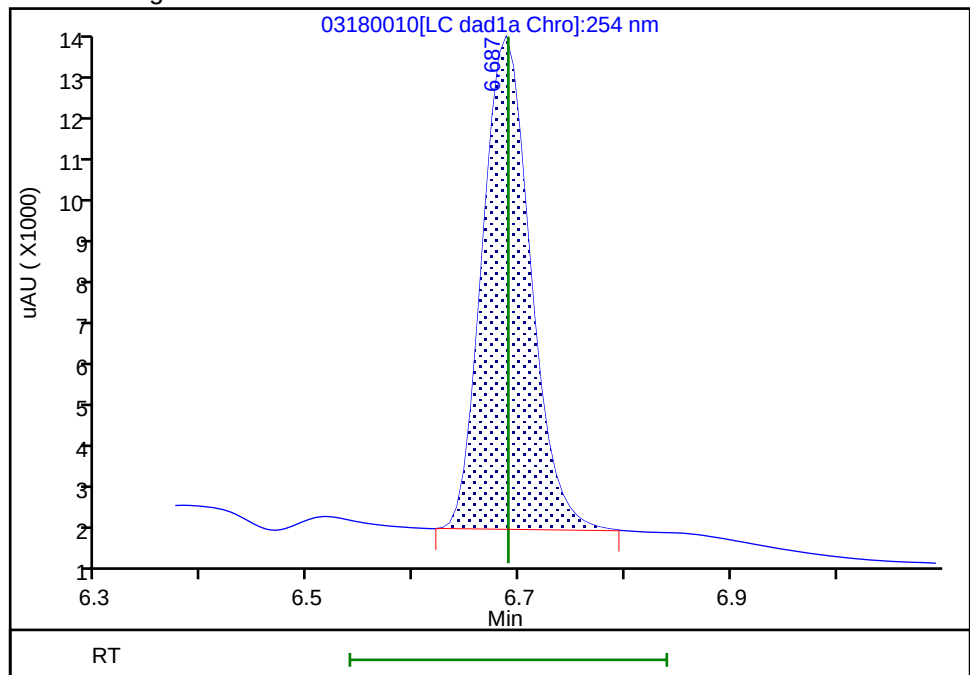
RT: 6.69
Area: 45375
Amount: 0.234818
Amount Units: ug/mL

Processing Integration Results



RT: 6.69
Area: 36589
Amount: 0.425641
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 19-Mar-2020 08:42:54

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180011.D
 Lims ID: IC MAIN L5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 18-Mar-2020 13:07:42 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC MAIN L5
 Misc. Info.: 280-0090150-011
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 26-Mar-2020 15:45:42 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX0308

First Level Reviewer: becker

Date: 19-Mar-2020 08:43:30

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.688	6.689	-0.001	22752	0.2500	0.2647	M
7 RDX	1	7.754	7.749	0.005	28236	0.2500	0.2421	
8 2,4,6-Trinitrophenol	1	8.068	8.076	-0.008	21617	0.2500	0.2539	
\$ 9 1,2-Dinitrobenzene	1	8.714	8.709	0.005	35555	0.2500	0.2572	
10 1,3,5-Trinitrobenzene	1	8.888	8.883	0.005	60039	0.2505	0.2607	
11 1,3-Dinitrobenzene	1	9.534	9.529	0.005	80465	0.2505	0.2624	
12 Nitrobenzene	1	9.921	9.916	0.005	52480	0.2510	0.2619	
14 Tetryl	1	10.221	10.216	0.005	47307	0.2505	0.2672	
15 Nitroglycerin	2	10.734	10.729	0.005	184270	2.50	2.70	
16 2,4,6-Trinitrotoluene	1	11.194	11.183	0.011	54439	0.2510	0.2668	
17 4-Amino-2,6-dinitrotoluene	1	11.347	11.336	0.011	43388	0.2503	0.2498	
18 2-Amino-4,6-dinitrotoluene	1	11.634	11.623	0.011	53635	0.2510	0.2645	
19 2,6-Dinitrotoluene	1	11.794	11.783	0.011	40049	0.2510	0.2680	
20 2,4-Dinitrotoluene	1	11.987	11.983	0.004	80062	0.2510	0.2637	
21 o-Nitrotoluene	1	12.827	12.823	0.004	34604	0.2500	0.2562	
22 p-Nitrotoluene	1	13.261	13.256	0.005	29824	0.2505	0.2639	
23 m-Nitrotoluene	1	13.854	13.849	0.005	37511	0.2503	0.2623	
24 PETN	2	14.941	14.936	0.005	201180	2.50	2.56	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 25.00

Units: uL

Report Date: 26-Mar-2020 15:45:42

Chrom Revision: 2.3 11-Mar-2020 18:53:20

Eurolins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180011.d

Injection Date: 18-Mar-2020 13:07:42

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC MAIN L5

Worklist Smp#: 11

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

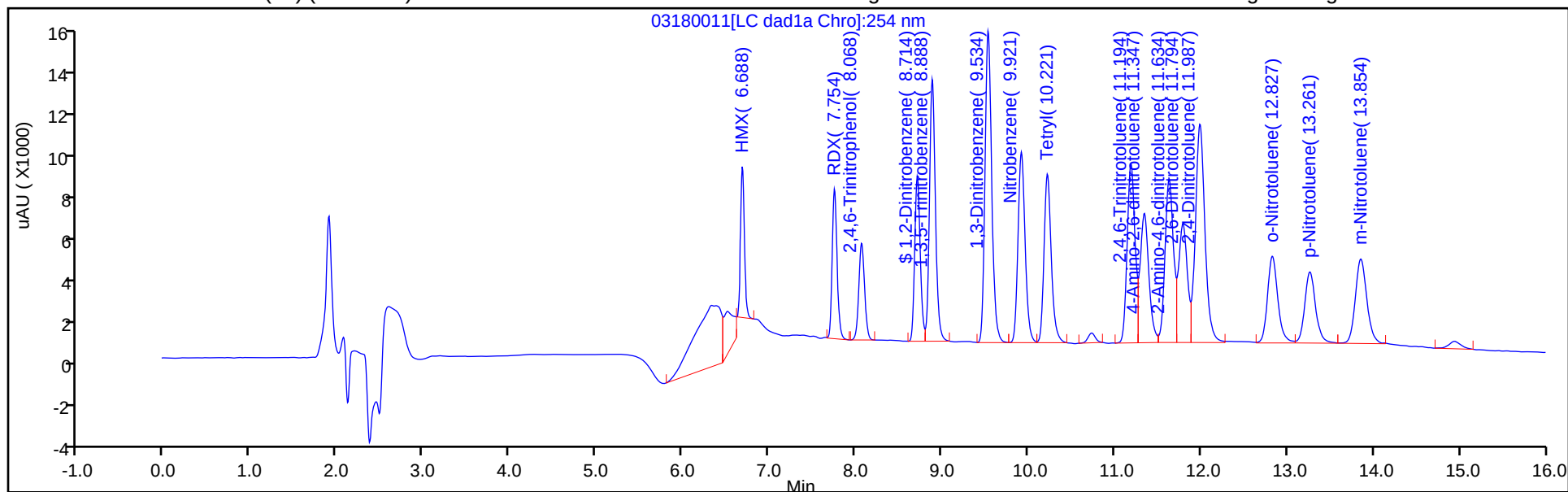
ALS Bottle#: 11

Method: 8330_X3

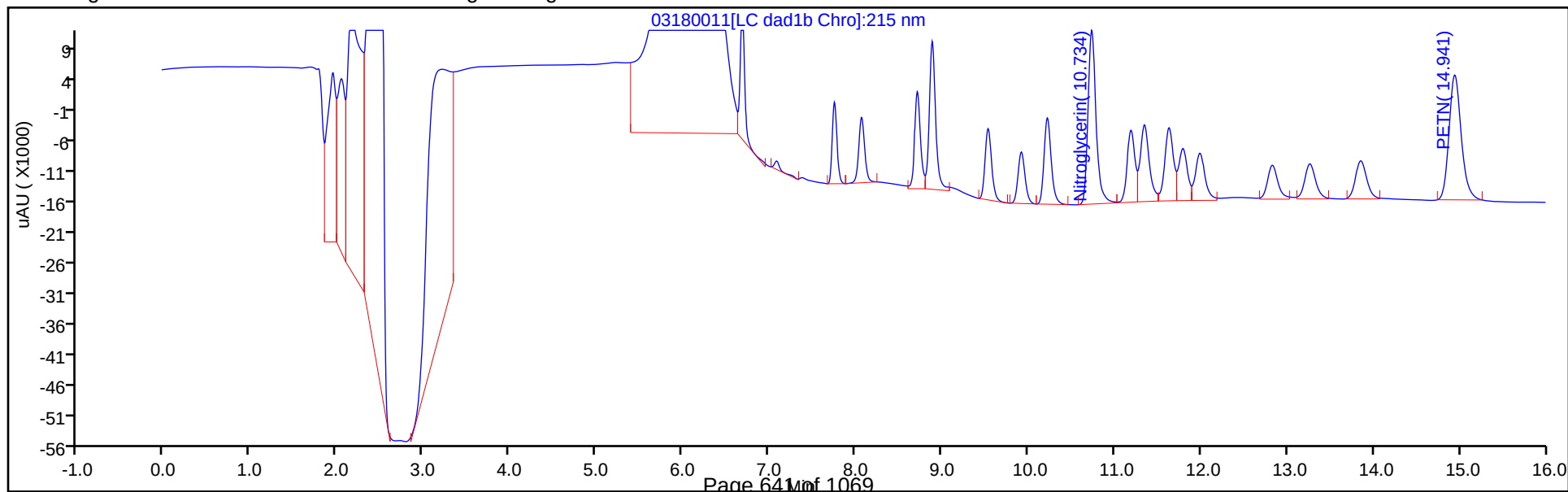
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

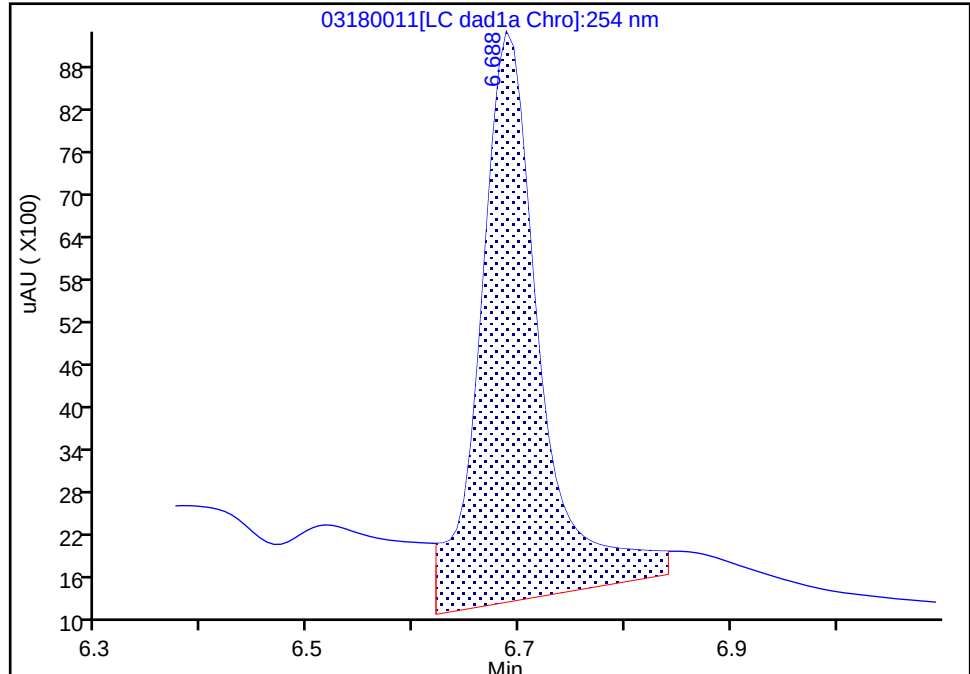
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180011.d
Injection Date: 18-Mar-2020 13:07:42 Instrument ID: CHHPLC_X3
Lims ID: IC MAIN L5
Client ID:
Operator ID: CB ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

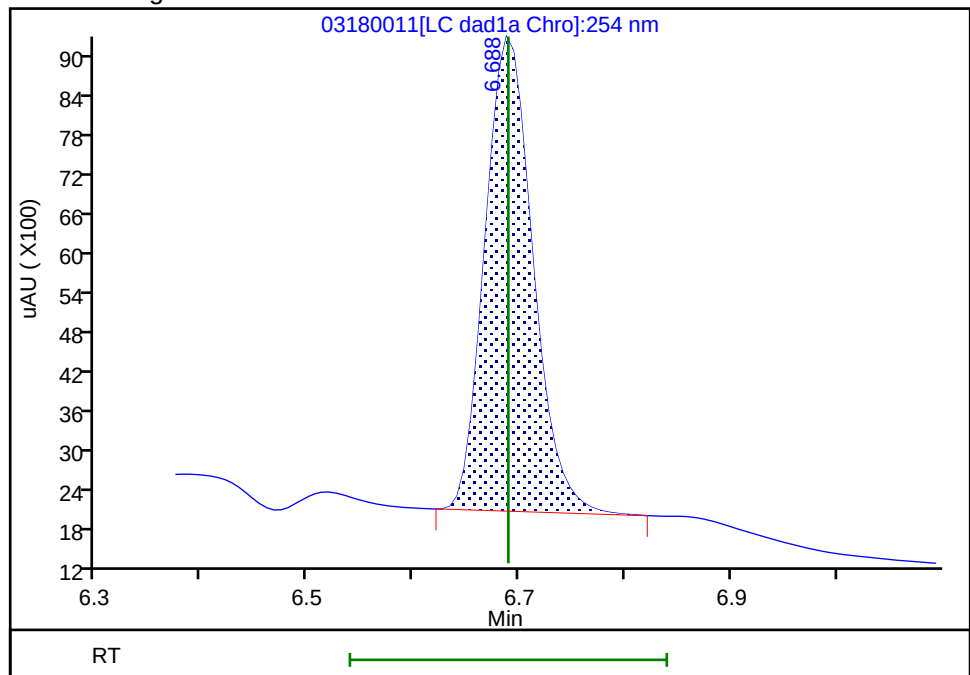
RT: 6.69
Area: 31475
Amount: 0.164968
Amount Units: ug/mL

Processing Integration Results



RT: 6.69
Area: 22752
Amount: 0.264675
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 19-Mar-2020 08:43:23

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180012.D
 Lims ID: IC MAIN L4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 18-Mar-2020 13:30:35 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC MAIN L4
 Misc. Info.: 280-0090150-012
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 26-Mar-2020 15:45:43 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX0308

First Level Reviewer: becker

Date: 19-Mar-2020 08:43:47

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.689	6.689	0.000	9080	0.1000	0.1056	M
7 RDX	1	7.749	7.749	0.000	11701	0.1000	0.1003	
8 2,4,6-Trinitrophenol	1	8.076	8.076	0.000	8647	0.1000	0.1016	
\$ 9 1,2-Dinitrobenzene	1	8.709	8.709	0.000	14127	0.1000	0.1022	
10 1,3,5-Trinitrobenzene	1	8.883	8.883	0.000	23730	0.1002	0.1030	
11 1,3-Dinitrobenzene	1	9.529	9.529	0.000	31897	0.1002	0.1040	
12 Nitrobenzene	1	9.916	9.916	0.000	20859	0.1004	0.1041	
14 Tetryl	1	10.216	10.216	0.000	18527	0.1002	0.1047	
15 Nitroglycerin	2	10.729	10.729	0.000	71269	1.00	1.05	
16 2,4,6-Trinitrotoluene	1	11.183	11.183	0.000	21830	0.1004	0.1070	
17 4-Amino-2,6-dinitrotoluene	1	11.336	11.336	0.000	17293	0.1001	0.1035	
18 2-Amino-4,6-dinitrotoluene	1	11.623	11.623	0.000	21043	0.1004	0.1038	
19 2,6-Dinitrotoluene	1	11.783	11.783	0.000	15921	0.1004	0.1065	
20 2,4-Dinitrotoluene	1	11.983	11.983	0.000	31802	0.1004	0.1048	
21 o-Nitrotoluene	1	12.823	12.823	0.000	13733	0.1000	0.1017	
22 p-Nitrotoluene	1	13.256	13.256	0.000	11811	0.1002	0.1045	
23 m-Nitrotoluene	1	13.849	13.849	0.000	14838	0.1001	0.1037	
24 PETN	2	14.936	14.936	0.000	78947	1.00	1.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 10.00

Units: uL

Report Date: 26-Mar-2020 15:45:43

Chrom Revision: 2.3 11-Mar-2020 18:53:20

Eurolins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180012.d

Injection Date: 18-Mar-2020 13:30:35

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC MAIN L4

Worklist Smp#: 12

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

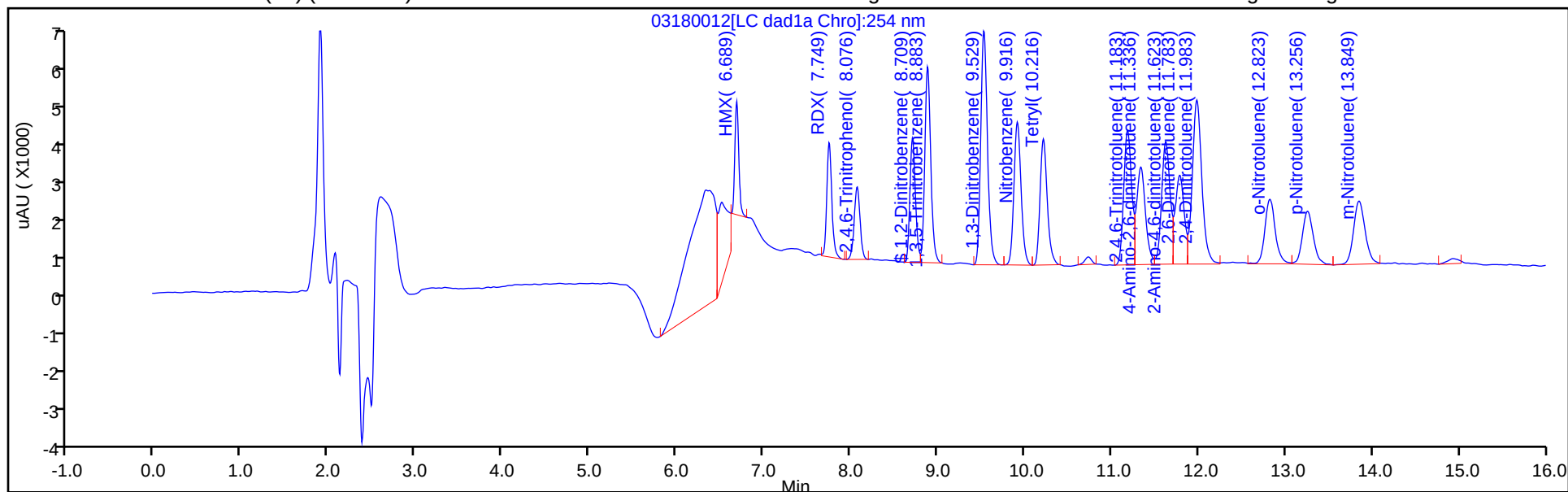
ALS Bottle#: 12

Method: 8330_X3

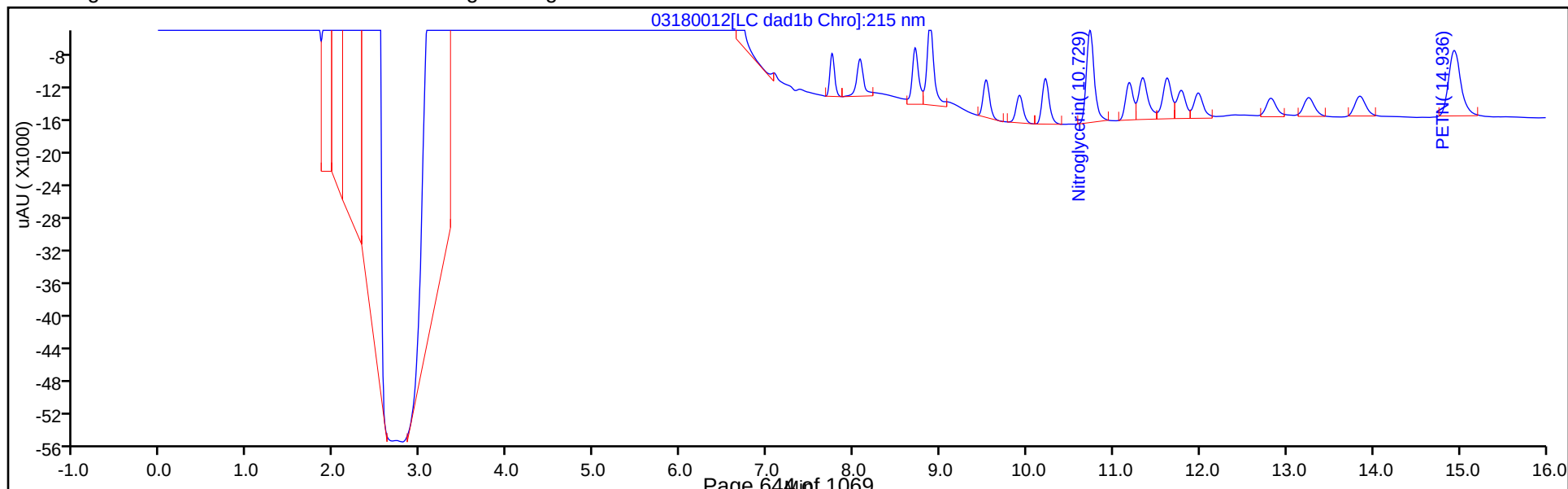
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

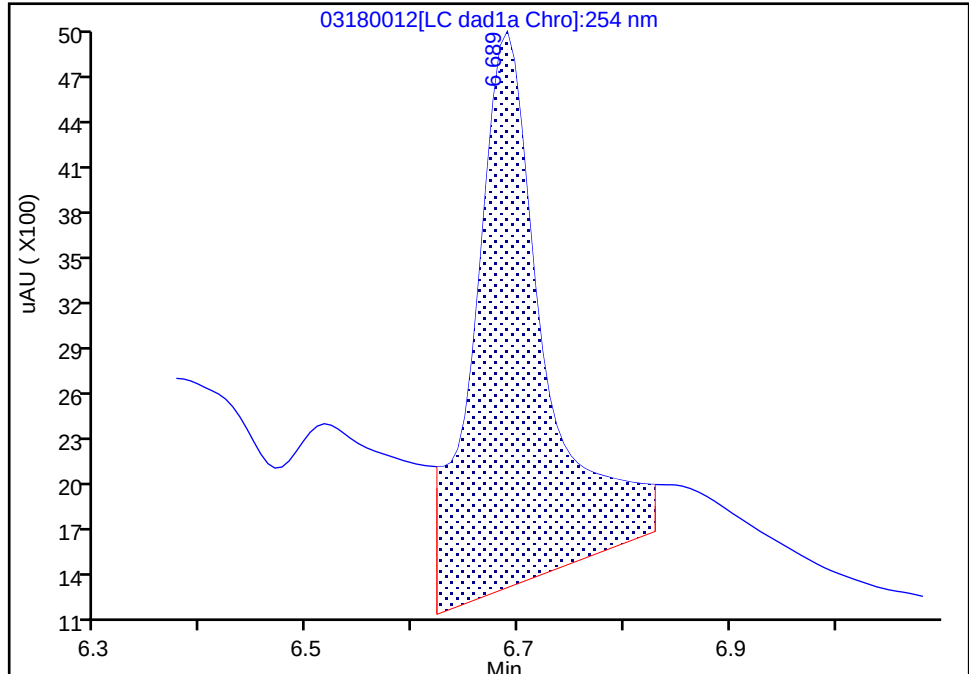
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180012.d
Injection Date: 18-Mar-2020 13:30:35 Instrument ID: CHHPLC_X3
Lims ID: IC MAIN L4
Client ID:
Operator ID: CB ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

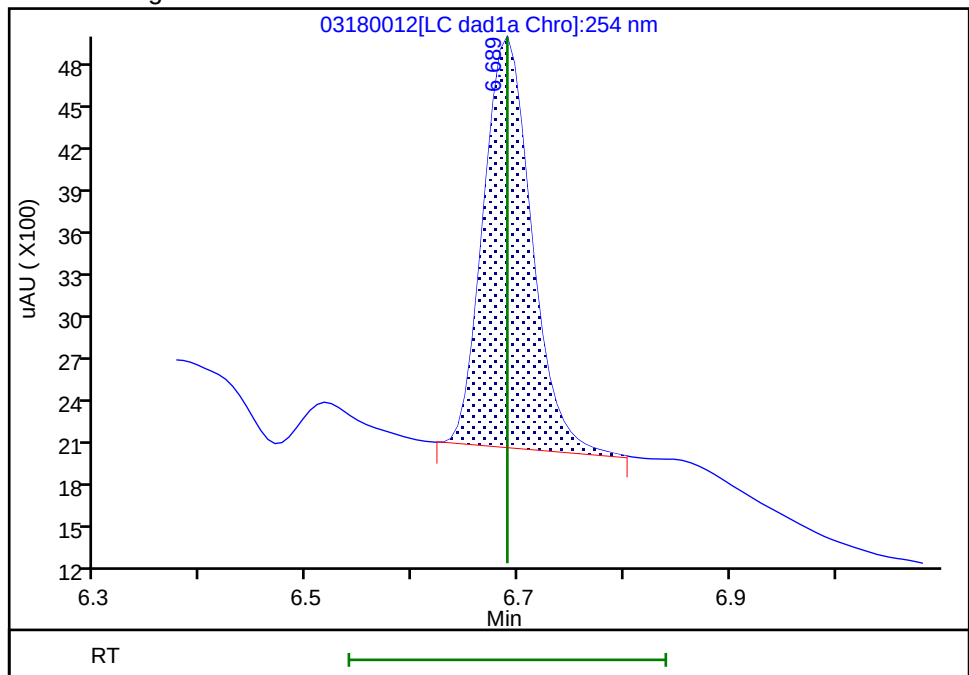
RT: 6.69
Area: 16912
Amount: 0.090478
Amount Units: ug/mL

Processing Integration Results



RT: 6.69
Area: 9080
Amount: 0.105628
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 19-Mar-2020 08:43:42

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180013.D
 Lims ID: IC MAIN L3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 18-Mar-2020 13:53:37 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC MAIN L3
 Misc. Info.: 280-0090150-013
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 26-Mar-2020 15:45:44 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX0308

First Level Reviewer: becker

Date: 19-Mar-2020 08:44:05

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.687	6.689	-0.002	4323	0.0500	0.0503	M
7 RDX	1	7.753	7.749	0.004	6070	0.0500	0.0521	
8 2,4,6-Trinitrophenol	1	8.080	8.076	0.004	4305	0.0500	0.0506	
\$ 9 1,2-Dinitrobenzene	1	8.713	8.709	0.004	7239	0.0500	0.0524	
10 1,3,5-Trinitrobenzene	1	8.887	8.883	0.004	11986	0.0501	0.0520	
11 1,3-Dinitrobenzene	1	9.533	9.529	0.004	16146	0.0501	0.0526	
12 Nitrobenzene	1	9.920	9.916	0.004	10485	0.0502	0.0523	
14 Tetryl	1	10.220	10.216	0.004	9136	0.0501	0.0516	
15 Nitroglycerin	2	10.733	10.729	0.004	33491	0.5000	0.4915	
16 2,4,6-Trinitrotoluene	1	11.186	11.183	0.003	10774	0.0502	0.0528	
17 4-Amino-2,6-dinitrotoluene	1	11.340	11.336	0.004	8490	0.0501	0.0541	
18 2-Amino-4,6-dinitrotoluene	1	11.633	11.623	0.010	10503	0.0502	0.0518	
19 2,6-Dinitrotoluene	1	11.793	11.783	0.010	7882	0.0502	0.0527	
20 2,4-Dinitrotoluene	1	11.986	11.983	0.003	15741	0.0502	0.0519	
21 o-Nitrotoluene	1	12.833	12.823	0.010	7553	0.0500	0.0559	
22 p-Nitrotoluene	1	13.260	13.256	0.004	6416	0.0501	0.0568	
23 m-Nitrotoluene	1	13.853	13.849	0.004	7758	0.0501	0.0542	
24 PETN	2	14.946	14.936	0.010	37407	0.5000	0.4759	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 5.00

Units: uL

Report Date: 26-Mar-2020 15:45:44

Chrom Revision: 2.3 11-Mar-2020 18:53:20

Eurolins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180013.d

Injection Date: 18-Mar-2020 13:53:37

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC MAIN L3

Worklist Smp#: 13

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

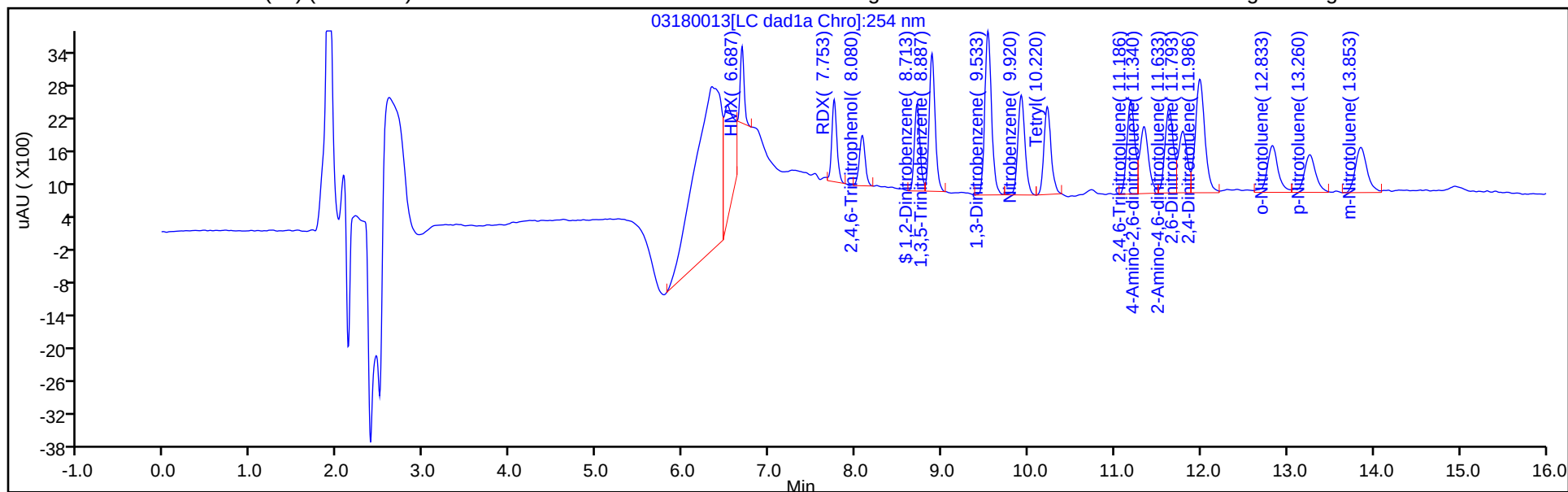
ALS Bottle#: 13

Method: 8330_X3

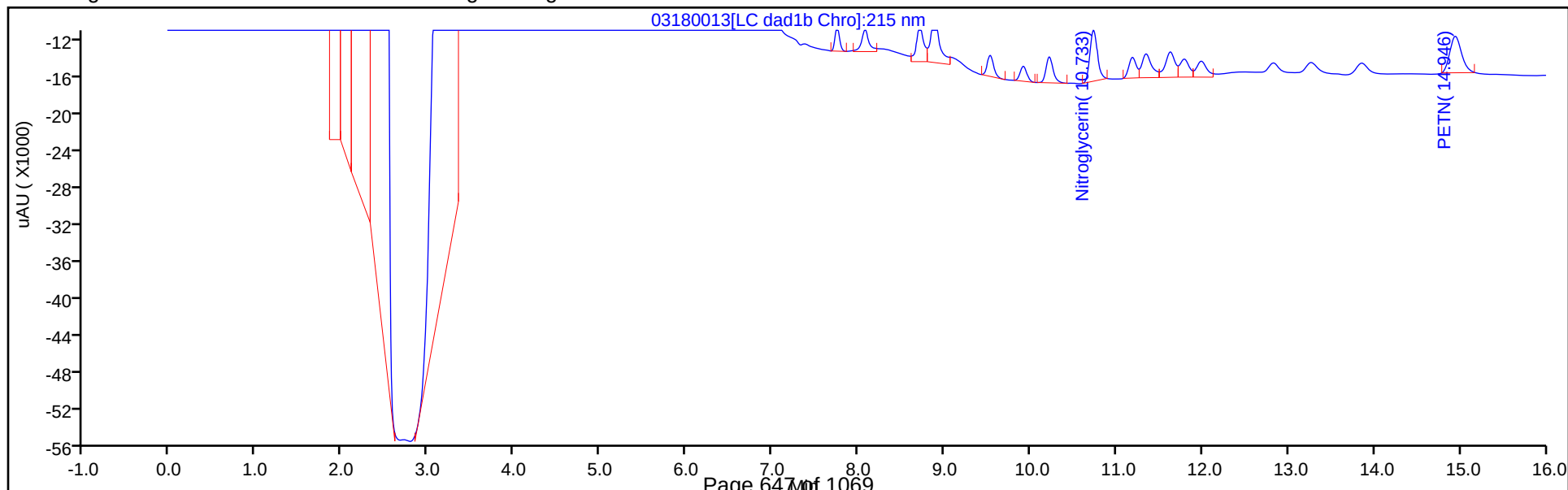
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

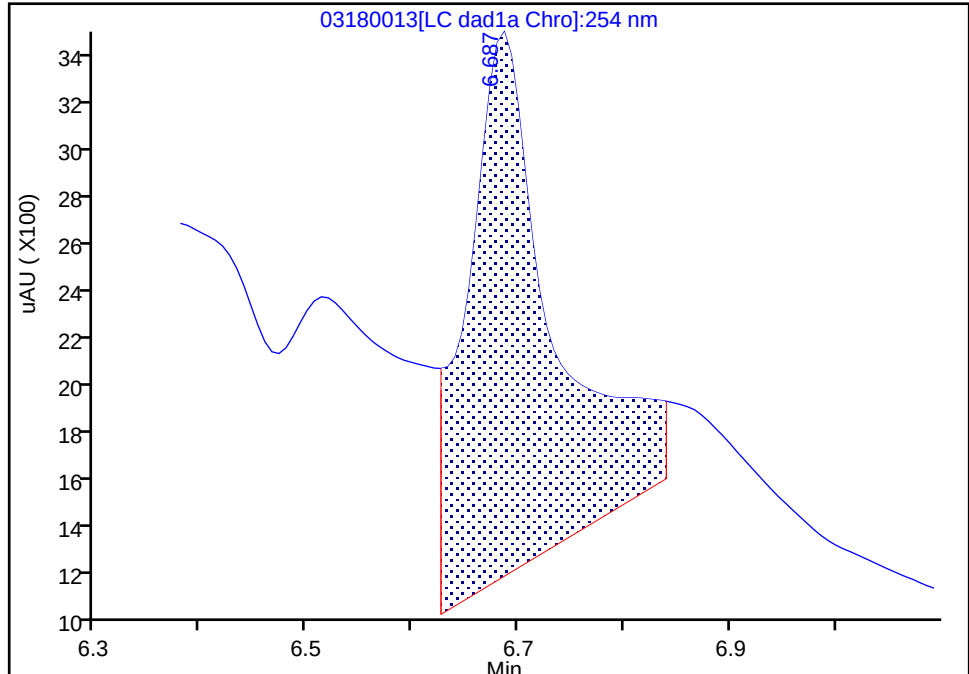
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180013.d
Injection Date: 18-Mar-2020 13:53:37 Instrument ID: CHHPLC_X3
Lims ID: IC MAIN L3
Client ID:
Operator ID: CB ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

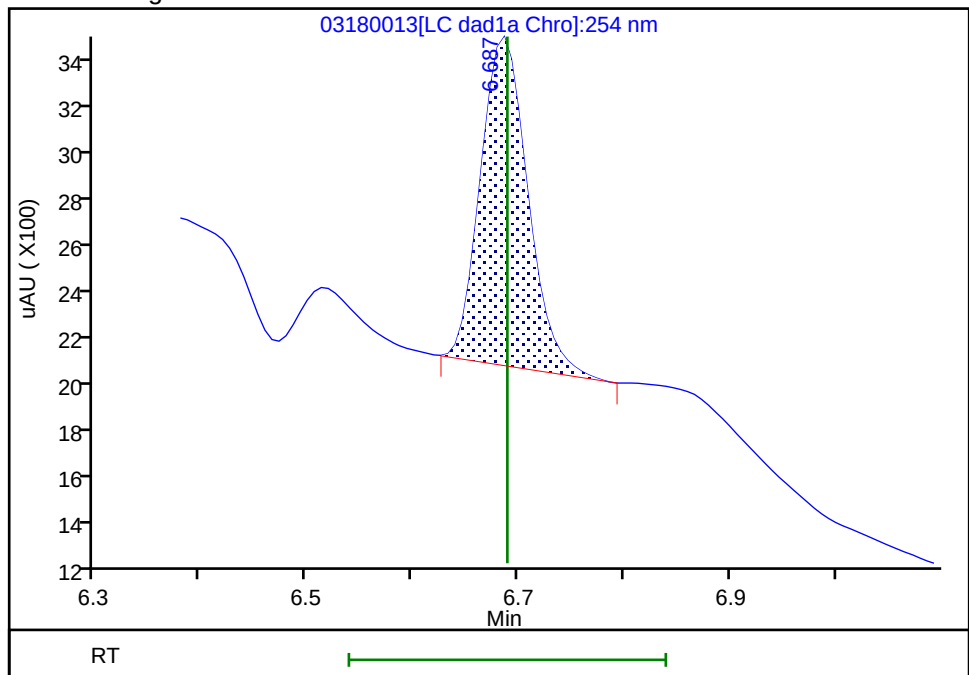
RT: 6.69
Area: 12509
Amount: 0.070190
Amount Units: ug/mL

Processing Integration Results



RT: 6.69
Area: 4323
Amount: 0.050290
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 19-Mar-2020 08:44:00

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180014.D
 Lims ID: IC MAIN L2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 18-Mar-2020 14:16:32 ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC MAIN L2
 Misc. Info.: 280-0090150-014
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 26-Mar-2020 15:45:44 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX0308

First Level Reviewer: becker

Date: 19-Mar-2020 08:44:44

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.689	6.689	0.000	1536	0.0250	0.0179	M
7 RDX	1	7.755	7.749	0.006	2817	0.0250	0.0242	
8 2,4,6-Trinitrophenol	1	8.082	8.076	0.006	1774	0.0250	0.0208	
\$ 9 1,2-Dinitrobenzene	1	8.709	8.709	0.000	2996	0.0250	0.0217	
10 1,3,5-Trinitrobenzene	1	8.889	8.883	0.006	4845	0.0251	0.0210	
11 1,3-Dinitrobenzene	1	9.535	9.529	0.006	6270	0.0251	0.0204	
12 Nitrobenzene	1	9.922	9.916	0.006	4155	0.0251	0.0207	
14 Tetryl	1	10.215	10.216	-0.001	3492	0.0251	0.0197	
15 Nitroglycerin	2	10.735	10.729	0.006	13701	0.2500	0.2011	
16 2,4,6-Trinitrotoluene	1	11.189	11.183	0.006	4307	0.0251	0.0211	
17 4-Amino-2,6-dinitrotoluene	1	11.342	11.336	0.006	3443	0.0250	0.0258	
18 2-Amino-4,6-dinitrotoluene	1	11.629	11.623	0.006	4046	0.0251	0.0199	M
19 2,6-Dinitrotoluene	1	11.789	11.783	0.006	2987	0.0251	0.0200	M
20 2,4-Dinitrotoluene	1	11.989	11.983	0.006	6274	0.0251	0.0207	
21 o-Nitrotoluene	1	12.822	12.823	-0.001	3068	0.0250	0.0227	
22 p-Nitrotoluene	1	13.269	13.256	0.013	2509	0.0251	0.0222	
23 m-Nitrotoluene	1	13.849	13.849	0.000	3129	0.0250	0.0219	
24 PETN	2	14.942	14.936	0.006	11624	0.2500	0.1479	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 2.50

Units: uL

Report Date: 26-Mar-2020 15:45:45

Chrom Revision: 2.3 11-Mar-2020 18:53:20

Eurolins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180014.d

Injection Date: 18-Mar-2020 14:16:32

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC MAIN L2

Worklist Smp#: 14

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

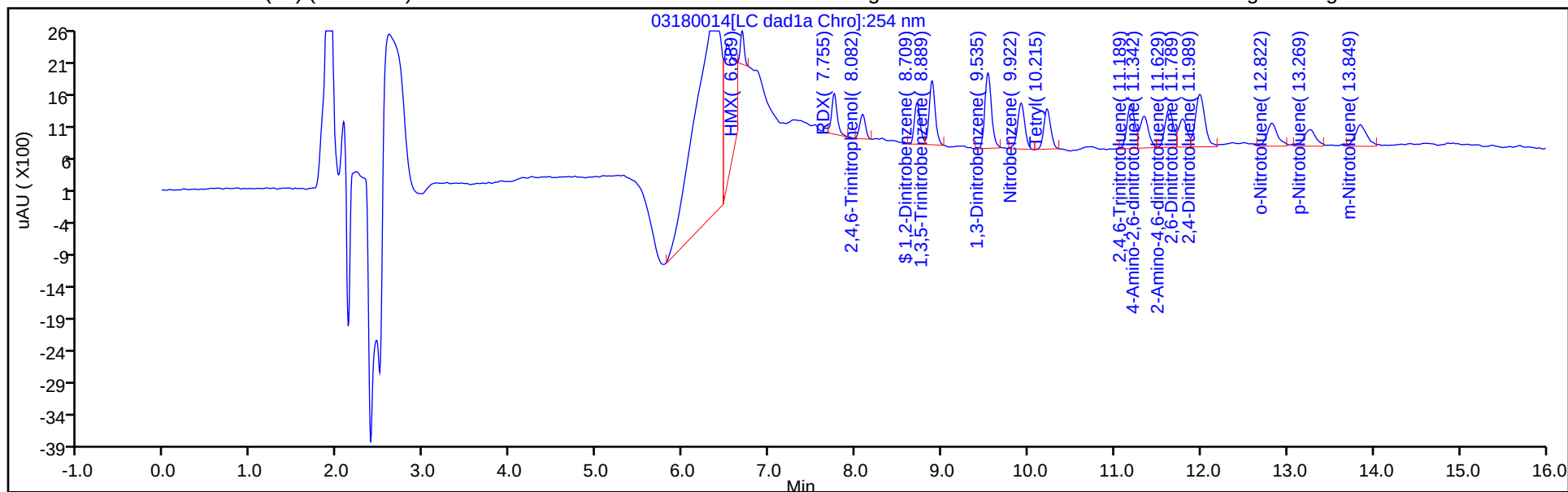
ALS Bottle#: 14

Method: 8330_X3

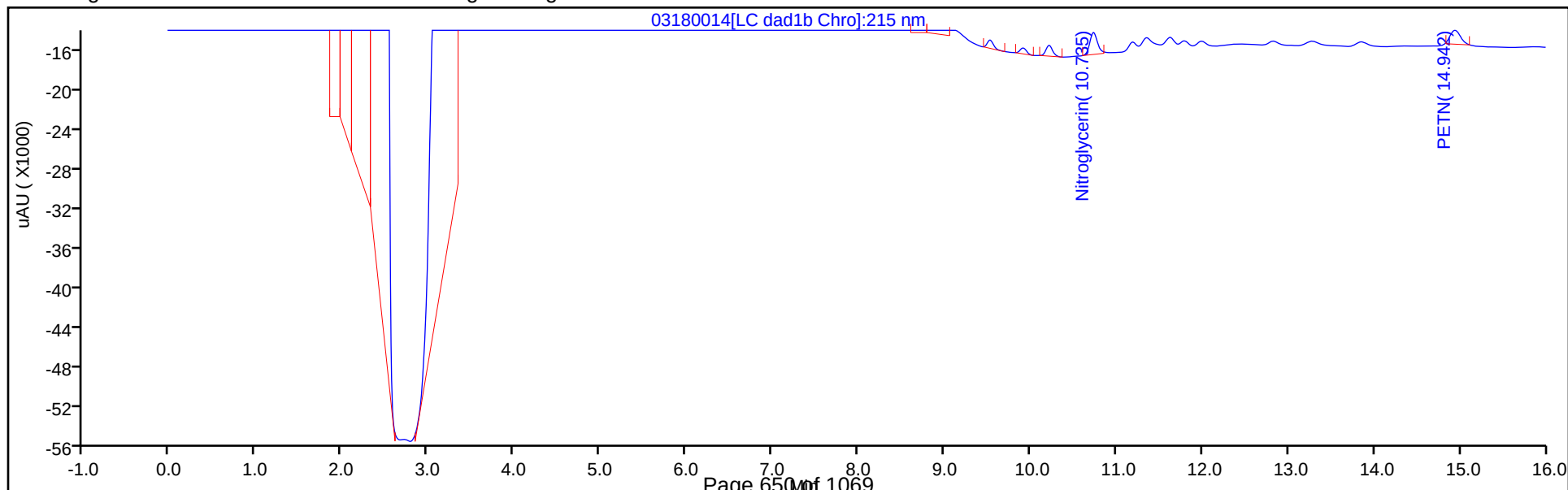
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180014.d

Injection Date: 18-Mar-2020 14:16:32

Instrument ID: CHHPLC_X3

Lims ID: IC MAIN L2

Client ID:

Operator ID: CB

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

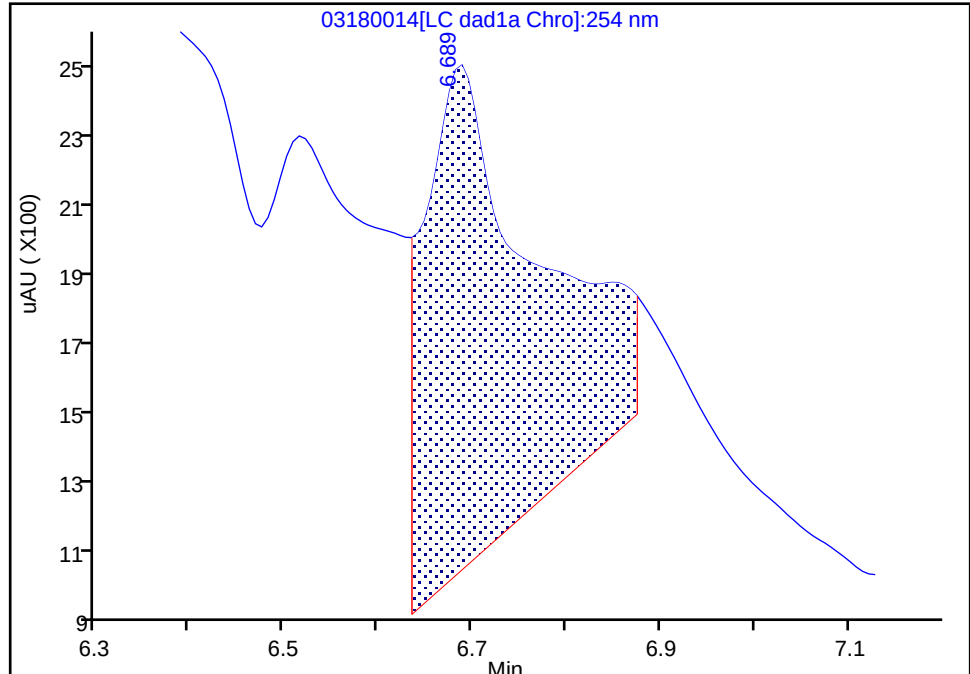
LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

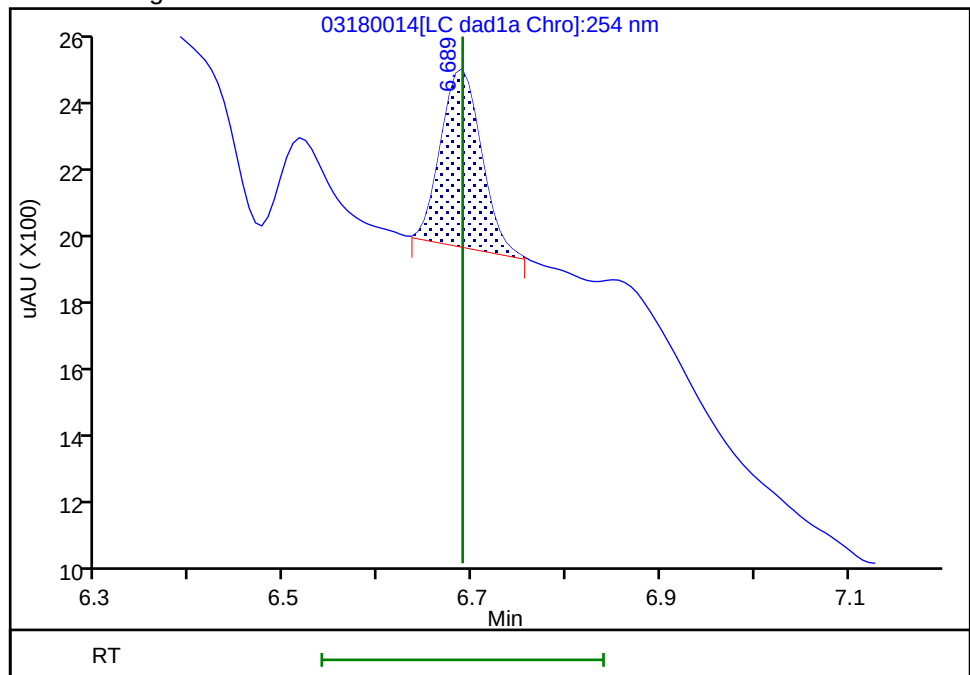
RT: 6.69
Area: 11606
Amount: 0.072526
Amount Units: ug/mL

Processing Integration Results



RT: 6.69
Area: 1536
Amount: 0.017868
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 19-Mar-2020 08:44:20

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

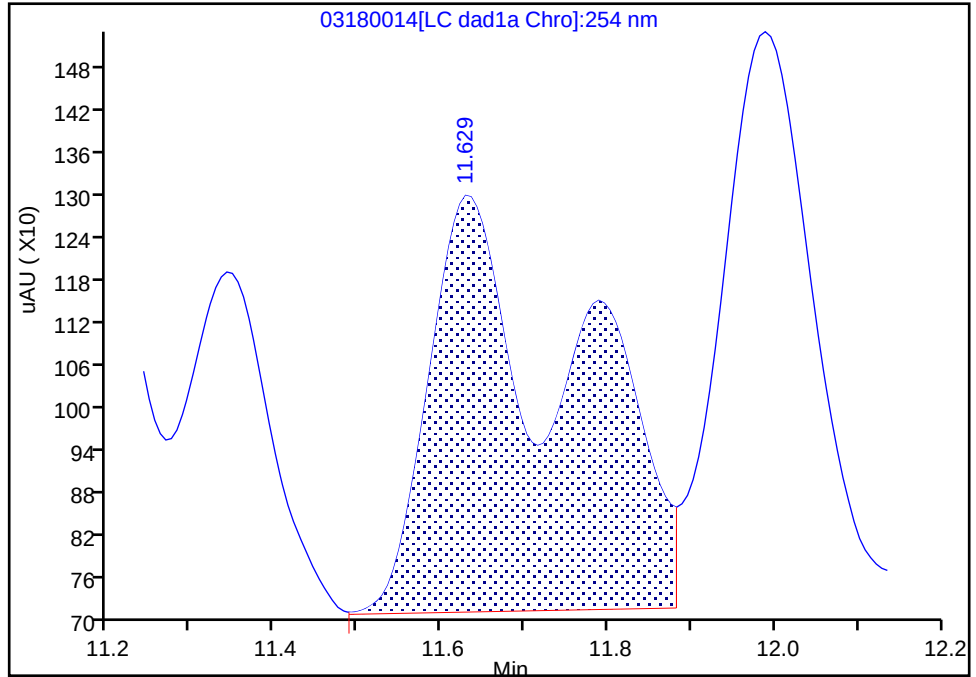
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180014.d
Injection Date: 18-Mar-2020 14:16:32 Instrument ID: CHHPLC_X3
Lims ID: IC MAIN L2
Client ID:
Operator ID: CB ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

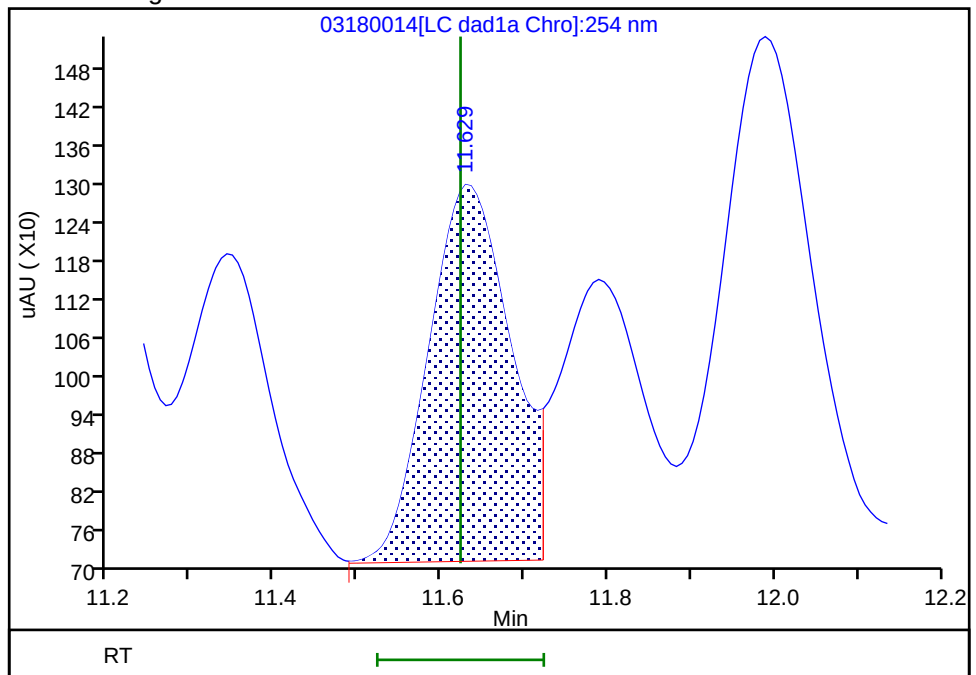
RT: 11.63
Area: 7030
Amount: 0.030654
Amount Units: ug/mL

Processing Integration Results



RT: 11.63
Area: 4046
Amount: 0.019949
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 19-Mar-2020 08:44:36

Audit Action: Split an Integrated Peak

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Lims ID: IC MAIN L1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 18-Mar-2020 14:39:27 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC MAIN L1
 Misc. Info.: 280-0090150-015
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 26-Mar-2020 15:45:45 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX0308

First Level Reviewer: becker

Date: 19-Mar-2020 08:46:42

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1		6.689			ND	ND	MU
7 RDX	1		7.749			ND	ND	MU
8 2,4,6-Trinitrophenol	1	8.082	8.076	0.006	1082	0.0125	0.0127	M
\$ 9 1,2-Dinitrobenzene	1	8.715	8.709	0.006	1531	0.0125	0.0111	
10 1,3,5-Trinitrobenzene	1	8.888	8.883	0.005	2405	0.0125	0.0104	
11 1,3-Dinitrobenzene	1	9.535	9.529	0.006	3191	0.0125	0.0104	
12 Nitrobenzene	1	9.915	9.916	-0.001	2176	0.0126	0.0109	
14 Tetryl	1	10.221	10.216	0.005	1664	0.0125	0.009399	
15 Nitroglycerin	2	10.735	10.729	0.006	6790	0.1250	0.0997	
16 2,4,6-Trinitrotoluene	1	11.195	11.183	0.012	1807	0.0126	0.008856	
17 4-Amino-2,6-dinitrotoluene	1	11.341	11.336	0.005	981	0.0125	0.0120	
18 2-Amino-4,6-dinitrotoluene	1	11.635	11.623	0.012	2123	0.0126	0.0105	M
19 2,6-Dinitrotoluene	1	11.795	11.783	0.012	1508	0.0126	0.0101	M
20 2,4-Dinitrotoluene	1	11.995	11.983	0.012	3142	0.0126	0.0103	
21 o-Nitrotoluene	1	12.828	12.823	0.005	1615	0.0125	0.0120	
22 p-Nitrotoluene	1	13.268	13.256	0.012	1080	0.0125	0.009557	
23 m-Nitrotoluene	1	13.855	13.849	0.006	1403	0.0125	0.009809	
24 PETN	2		14.936			ND	ND	MU

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

8330IntermStk_00061

Amount Added: 1.25

Units: uL

Report Date: 26-Mar-2020 15:45:46

Chrom Revision: 2.3 11-Mar-2020 18:53:20

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180015.d

Injection Date: 18-Mar-2020 14:39:27

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC MAIN L1

Worklist Smp#: 15

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

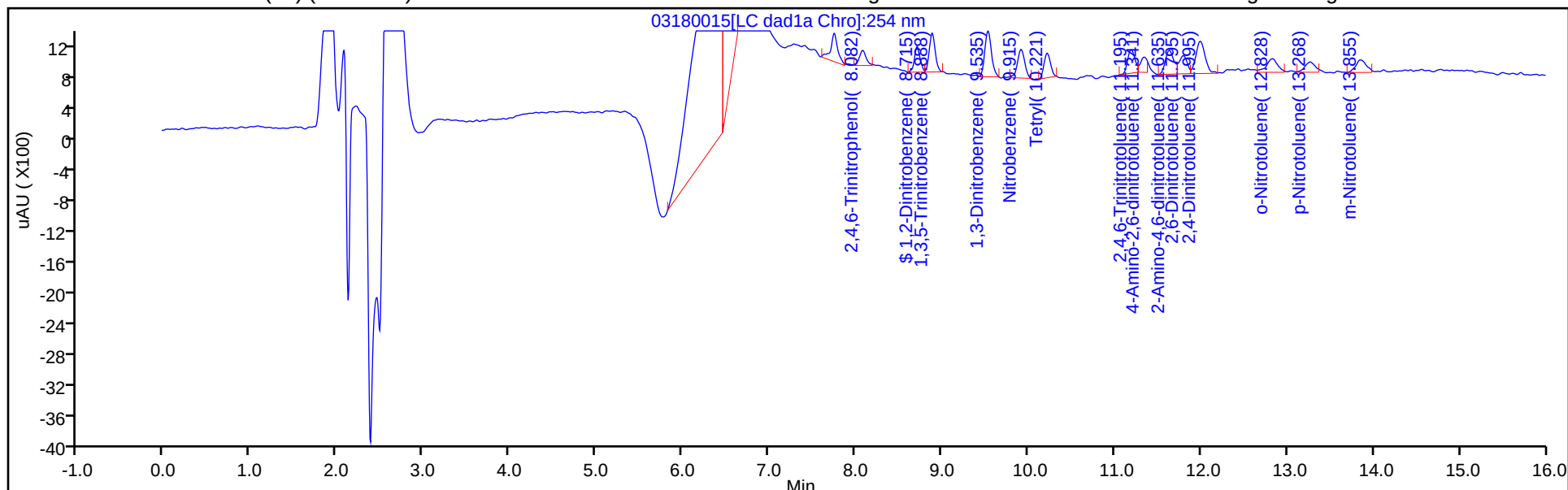
ALS Bottle#: 15

Method: 8330_X3

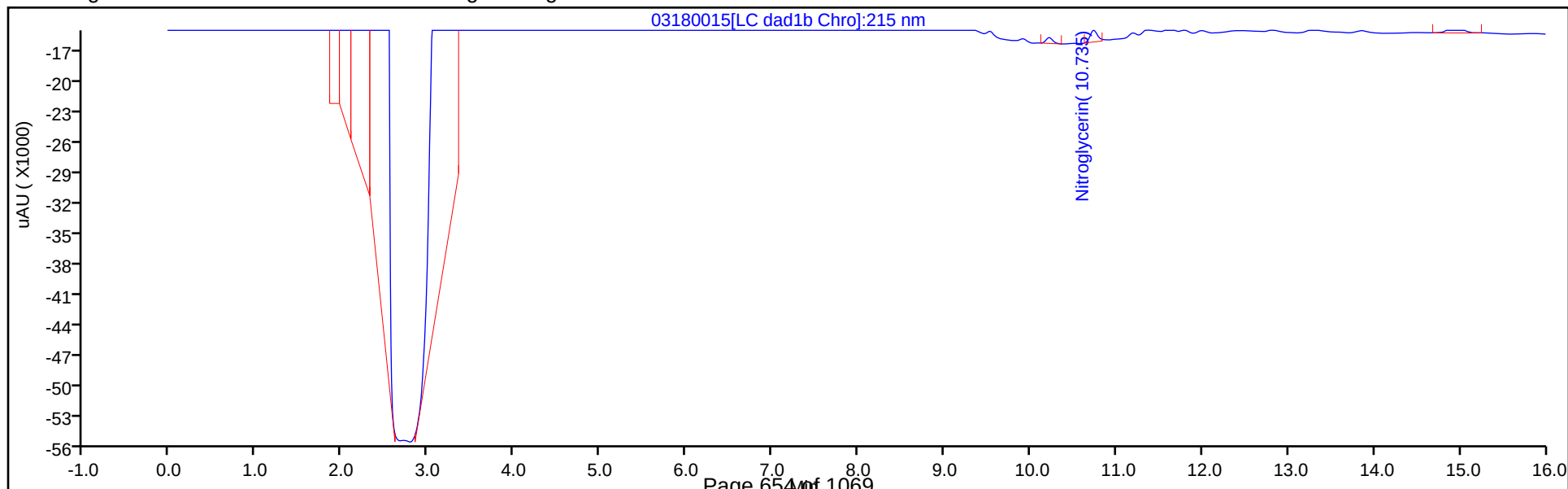
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180015.d

Injection Date: 18-Mar-2020 14:39:27

Instrument ID: CHHPLC_X3

Lims ID: IC MAIN L1

Client ID:

Operator ID: CB

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

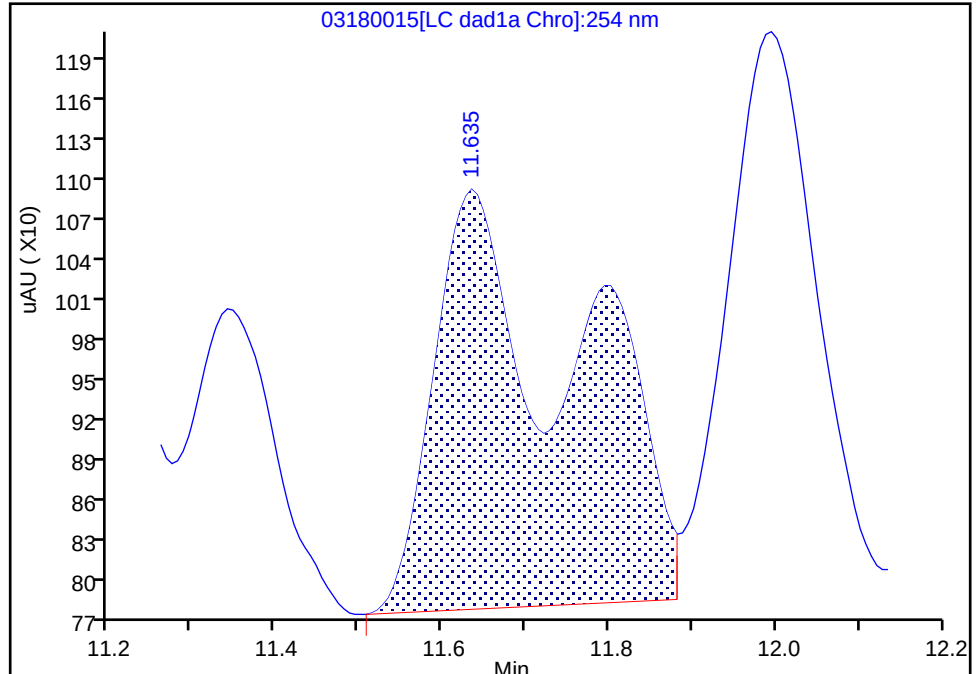
LC DAD1B, 254 nm

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

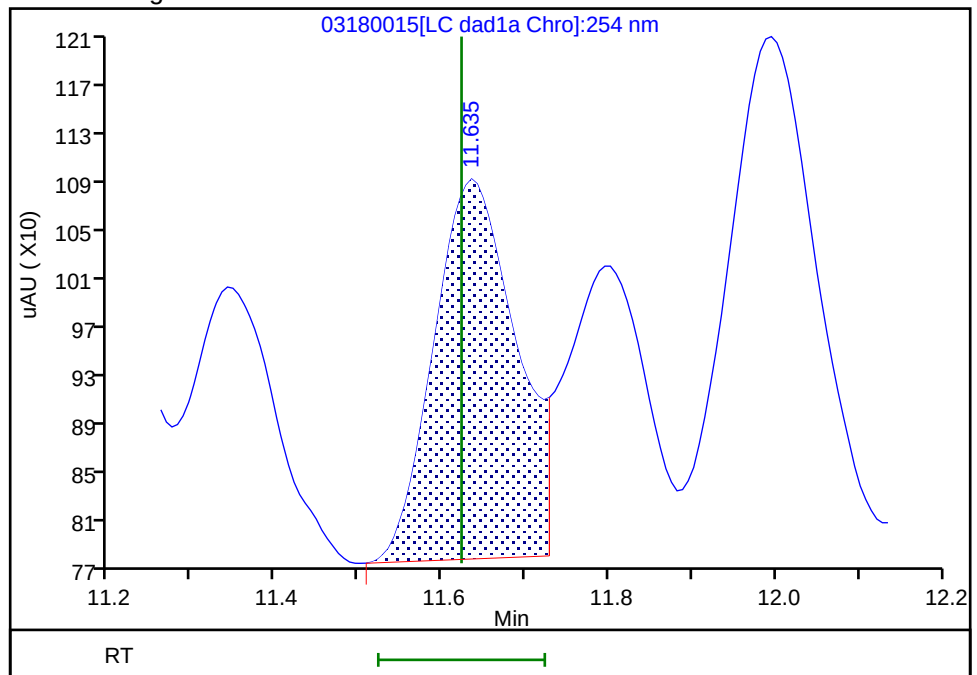
RT: 11.63
Area: 3626
Amount: 0.016777
Amount Units: ug/mL

Processing Integration Results



RT: 11.63
Area: 2123
Amount: 0.010468
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 19-Mar-2020 08:46:18

Audit Action: Split an Integrated Peak

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: ICV 280-494886/16 Calibration Date: 05/14/2020 21:31
 Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16
 GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 05/14/2020 20:56
 Lab File ID: 05140016.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Picric acid	Ave	193810	184585		381	400	-4.8	15.0
HMX	Lin2		178815		374	400	-6.5	15.0
RDX	Ave	244360	211628		346	400	-13.4	15.0
Nitrobenzene	Ave	439227	438053		399	400	-0.3	15.0
1,3-Dinitrobenzene	Ave	674189	636963		378	400	-5.5	15.0
Nitroglycerin	Ave	126803	122258		3860	4000	-3.6	15.0
2-Nitrotoluene	Ave	272965	263495		386	400	-3.5	15.0
4-Nitrotoluene	Ave	240881	229805		382	400	-4.6	15.0
4-Amino-2,6-dinitrotoluene	Ave	345235	318460		369	400	-7.8	15.0
3-Nitrotoluene	Ave	298327	286883		385	400	-3.8	15.0
2-Amino-4,6-dinitrotoluene	Ave	465211	446188		384	400	-4.1	15.0
1,3,5-Trinitrobenzene	Ave	472451	495920		420	400	5.0	15.0
2,6-Dinitrotoluene	Lin2		302720		403	400	0.8	15.0
2,4-Dinitrotoluene	Ave	640113	590383		369	400	-7.8	15.0
Tetryl	Ave	368678	347680		377	400	-5.7	15.0
2,4,6-Trinitrotoluene	Lin1		390228		381	400	-4.8	15.0
PETN	Lin1		124707		3650	4000	-8.8	15.0
1,2-Dinitrobenzene	Lin1		250760		355	400	-11.2	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: ICV 280-494886/16 Calibration Date: 05/14/2020 21:31
 Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16
 GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 05/14/2020 20:56
 Lab File ID: 05140016.D

Analyte	RT	RT WINDOW	
		FROM	TO
Picric acid	6.23	6.15	6.45
HMX	6.95	6.84	7.14
RDX	9.12	9.02	9.32
Nitrobenzene	12.05	11.96	12.26
1,3-Dinitrobenzene	15.50	15.40	15.70
Nitroglycerin	15.81	15.70	16.00
2-Nitrotoluene	16.49	16.38	16.68
4-Nitrotoluene	16.77	16.67	16.97
4-Amino-2,6-dinitrotoluene	17.10	17.00	17.30
3-Nitrotoluene	17.69	17.60	17.90
2-Amino-4,6-dinitrotoluene	17.99	17.90	18.20
1,3,5-Trinitrobenzene	18.83	18.74	19.04
2,6-Dinitrotoluene	19.75	19.66	19.96
2,4-Dinitrotoluene	20.24	20.14	20.44
Tetryl	23.51	23.40	23.70
2,4,6-Trinitrotoluene	24.61	24.50	24.80
PETN	25.25	25.13	25.43
1,2-Dinitrobenzene	12.99	12.89	13.19

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140016.D
 Lims ID: ICV FULL
 Client ID:
 Sample Type: ICV
 Inject. Date: 14-May-2020 21:31:26 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: ICV FULL
 Misc. Info.: 280-0091518-016
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist:
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 15-May-2020 12:00:59 Calib Date: 14-May-2020 20:56:30
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140015.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0318

First Level Reviewer: zhangji

Date: 15-May-2020 11:55:09

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	4.307	4.366	-0.059	179307	0.4000	0.4177	M
2 2,4-diamino-6-nitrotoluene	1	4.840	4.880	-0.040	97723	0.4000	0.3877	M
5 2,4,6-Trinitrophenol	1	6.234	6.300	-0.066	73834	0.4000	0.3810	a
6 HMX	1	6.954	6.986	-0.032	71526	0.4000	0.3740	
8 RDX	1	9.120	9.173	-0.053	84651	0.4000	0.3464	
9 Nitrobenzene	1	12.053	12.106	-0.053	175221	0.4000	0.3989	
\$ 10 1,2-Dinitrobenzene	1	12.987	13.040	-0.053	100304	0.4000	0.3552	
11 3,5-Dinitroaniline	1	14.827	14.886	-0.059	185478	0.4000	0.3767	
12 1,3-Dinitrobenzene	1	15.500	15.553	-0.053	254785	0.4000	0.3779	
13 Nitroglycerin	2	15.807	15.853	-0.046	489033	4.00	3.86	
14 o-Nitrotoluene	1	16.493	16.533	-0.040	105398	0.4000	0.3861	M
15 p-Nitrotoluene	1	16.767	16.820	-0.053	91922	0.4000	0.3816	M
16 4-Amino-2,6-dinitrotoluene	1	17.100	17.146	-0.046	127384	0.4000	0.3690	M
17 m-Nitrotoluene	1	17.693	17.753	-0.060	114753	0.4000	0.3847	M
18 2-Amino-4,6-dinitrotoluene	1	17.987	18.046	-0.059	178475	0.4000	0.3836	M
19 1,3,5-Trinitrobenzene	1	18.833	18.886	-0.053	198368	0.4000	0.4199	M
20 2,6-Dinitrotoluene	1	19.753	19.806	-0.053	121088	0.4000	0.4033	M
21 2,4-Dinitrotoluene	1	20.240	20.293	-0.053	236153	0.4000	0.3689	M
22 Tetryl	1	23.507	23.553	-0.046	139072	0.4000	0.3772	
23 2,4,6-Trinitrotoluene	1	24.607	24.653	-0.046	156091	0.4000	0.3808	
24 PETN	2	25.254	25.280	-0.026	498829	4.00	3.65	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8330Surrogate_00114	Amount Added: 40.00	Units: uL
3,5-DNA LCS_00036	Amount Added: 40.00	Units: uL
8330 LCS_00098	Amount Added: 40.00	Units: uL
8330DiaminLCS_00038	Amount Added: 40.00	Units: uL

Report Date: 15-May-2020 12:01:01

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d

Injection Date: 14-May-2020 21:31:26

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: ICV FULL

Worklist Smp#: 16

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

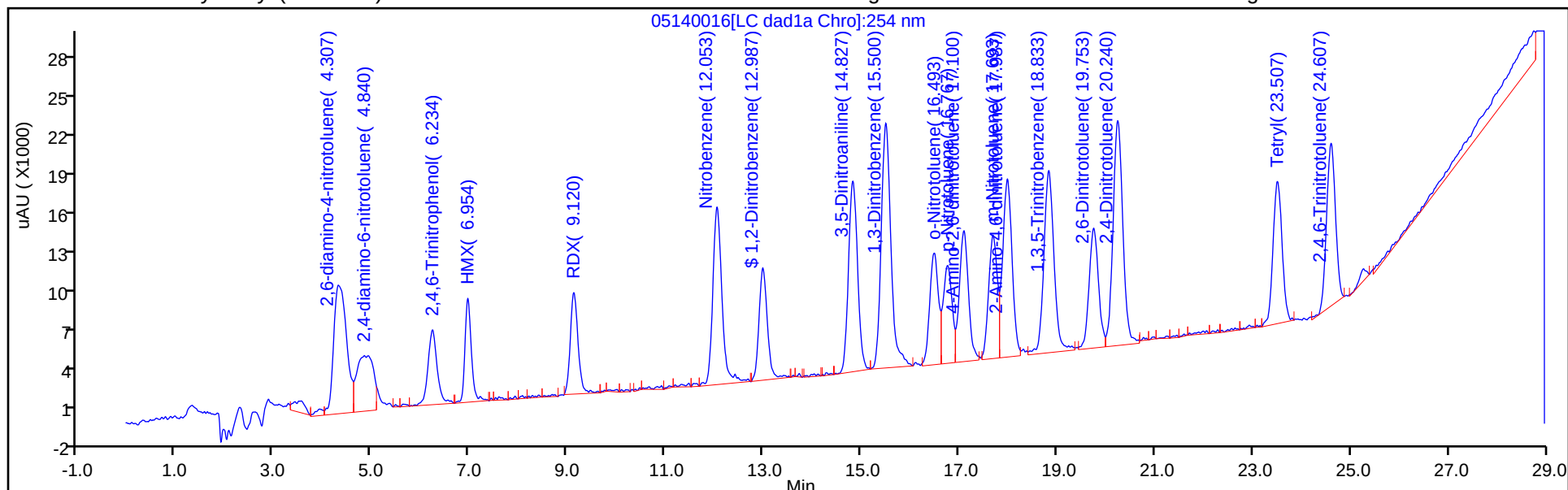
ALS Bottle#: 16

Method: G2_8330_Luna

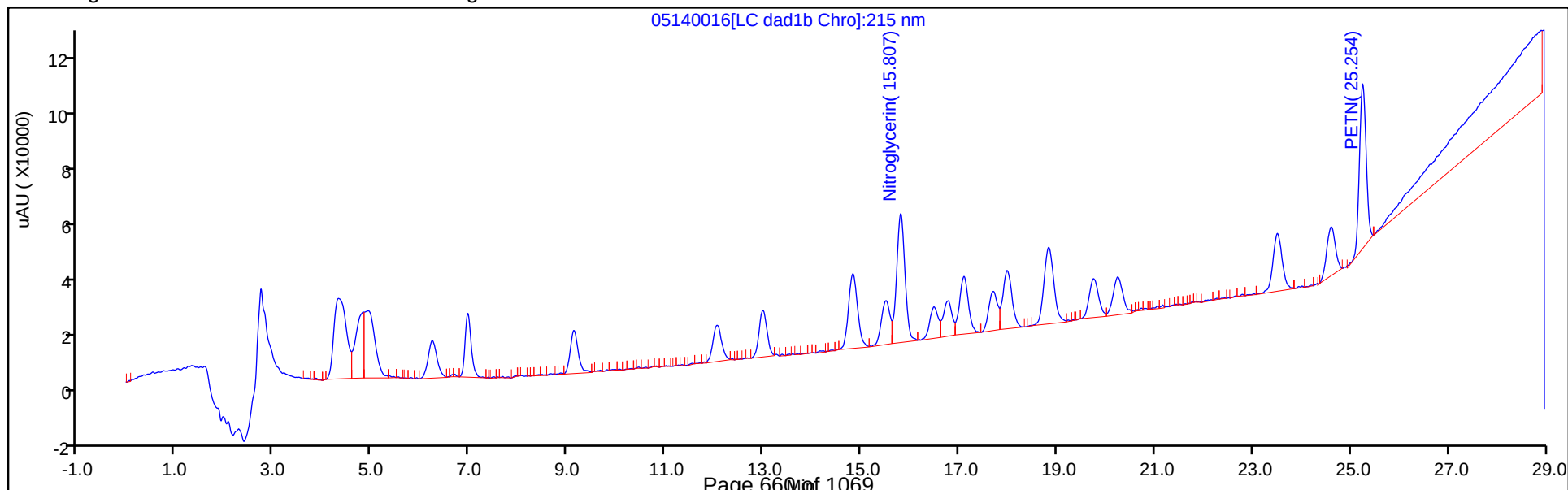
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver

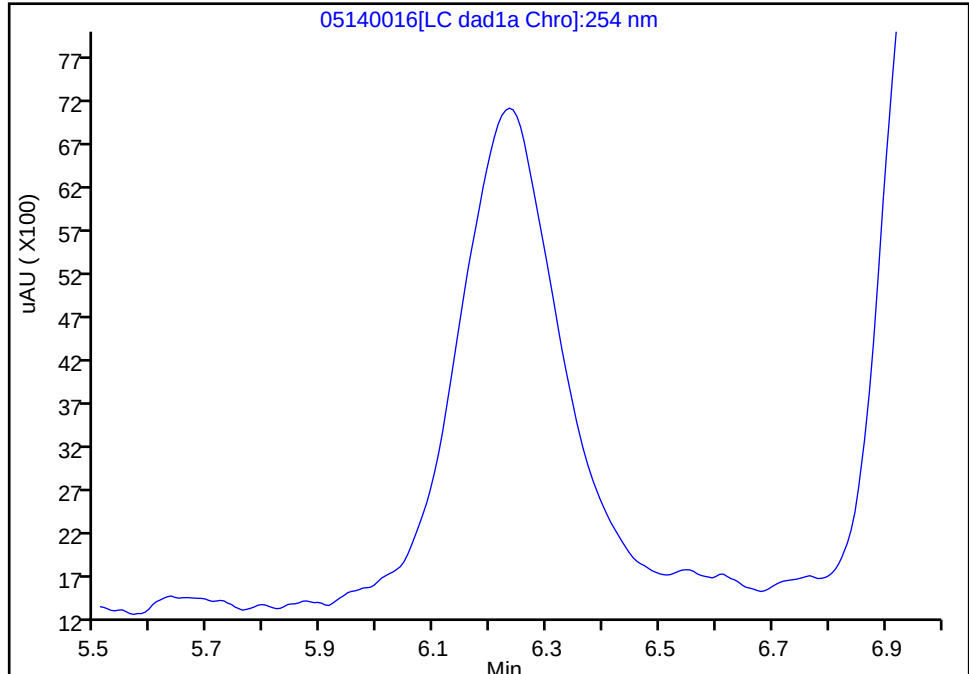
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d
Injection Date: 14-May-2020 21:31:26 Instrument ID: CHHPLC_G2_LUNA
Lims ID: ICV FULL
Client ID:
Operator ID: CB ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

5 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

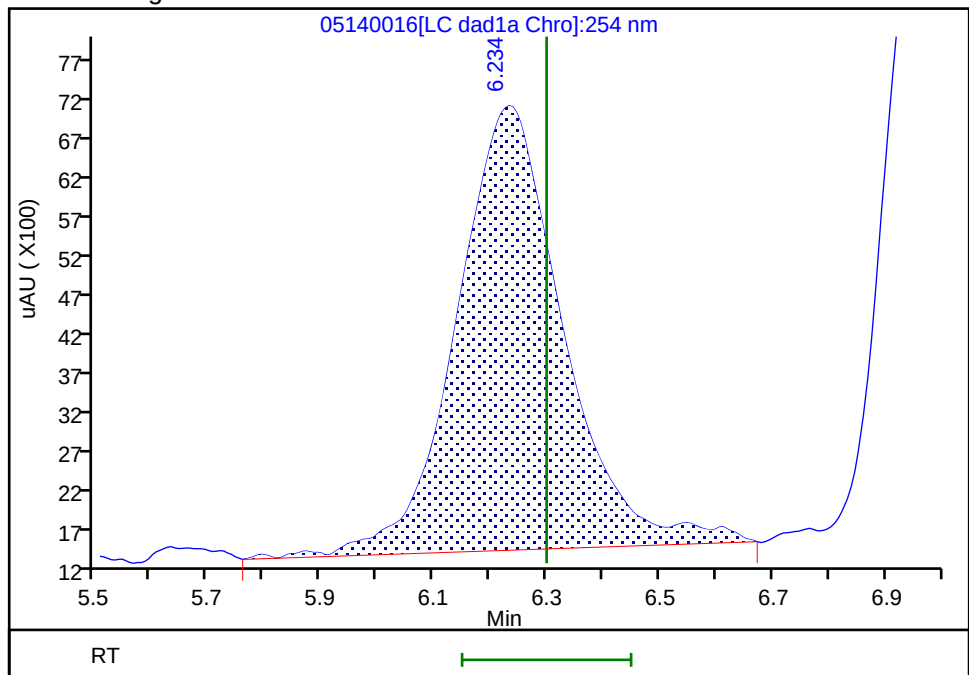
Not Detected
Expected RT: 6.30

Processing Integration Results



RT: 6.23
Area: 73834
Amount: 0.380960
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:14:55
Audit Action: Assigned Compound ID

Audit Reason:
Page 661 of 1069

Eurofins TestAmerica, Denver

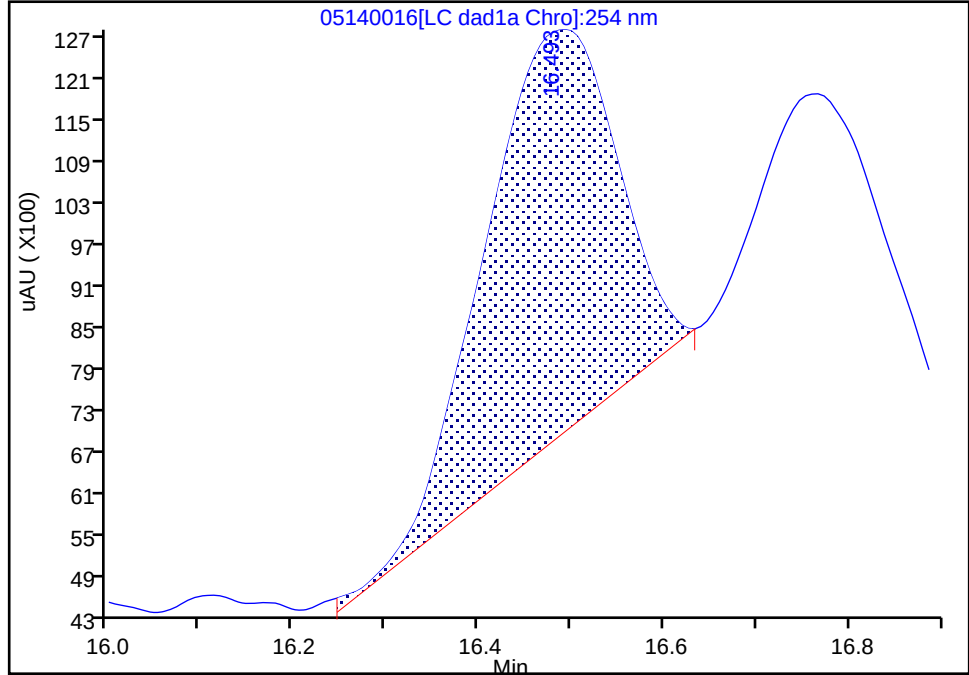
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d
Injection Date: 14-May-2020 21:31:26 Instrument ID: CHHPLC_G2_LUNA
Lims ID: ICV FULL
Client ID:
Operator ID: CB ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

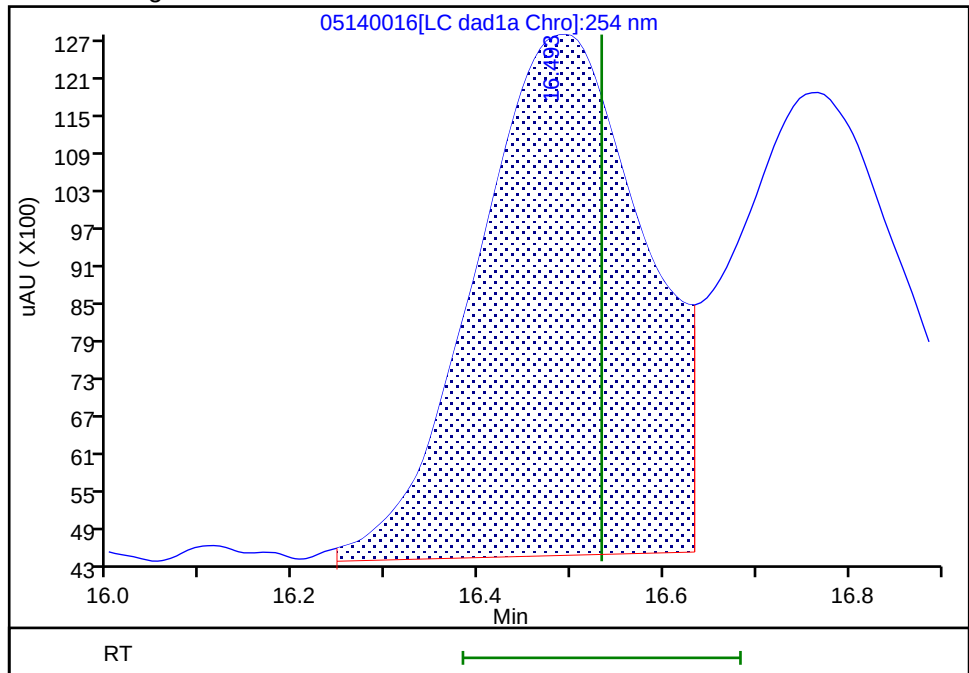
RT: 16.49
Area: 59335
Amount: 0.217373
Amount Units: ug/ml

Processing Integration Results



RT: 16.49
Area: 105398
Amount: 0.386123
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:33:24
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

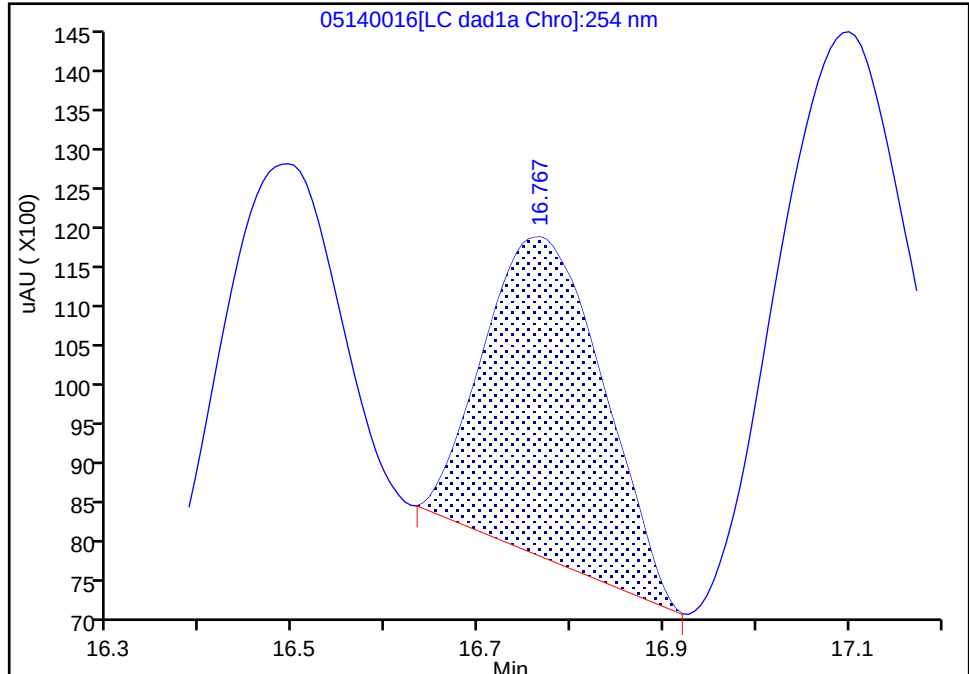
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d
Injection Date: 14-May-2020 21:31:26 Instrument ID: CHHPLC_G2_LUNA
Lims ID: ICV FULL
Client ID:
Operator ID: CB ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

15 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

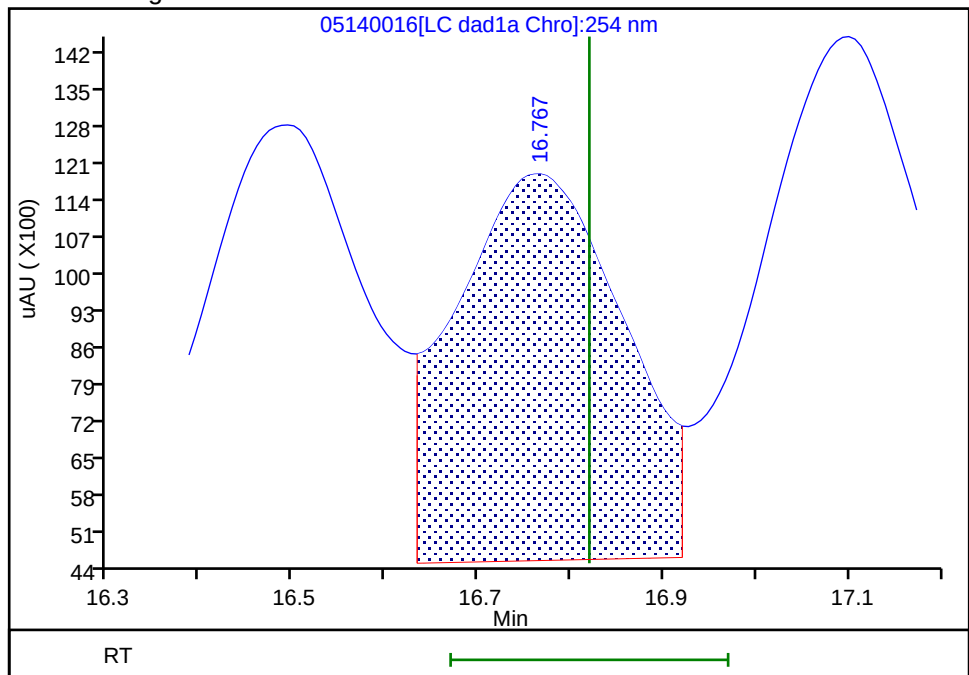
RT: 16.77
Area: 36452
Amount: 0.151328
Amount Units: ug/ml

Processing Integration Results



RT: 16.77
Area: 91922
Amount: 0.381607
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:33:24
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

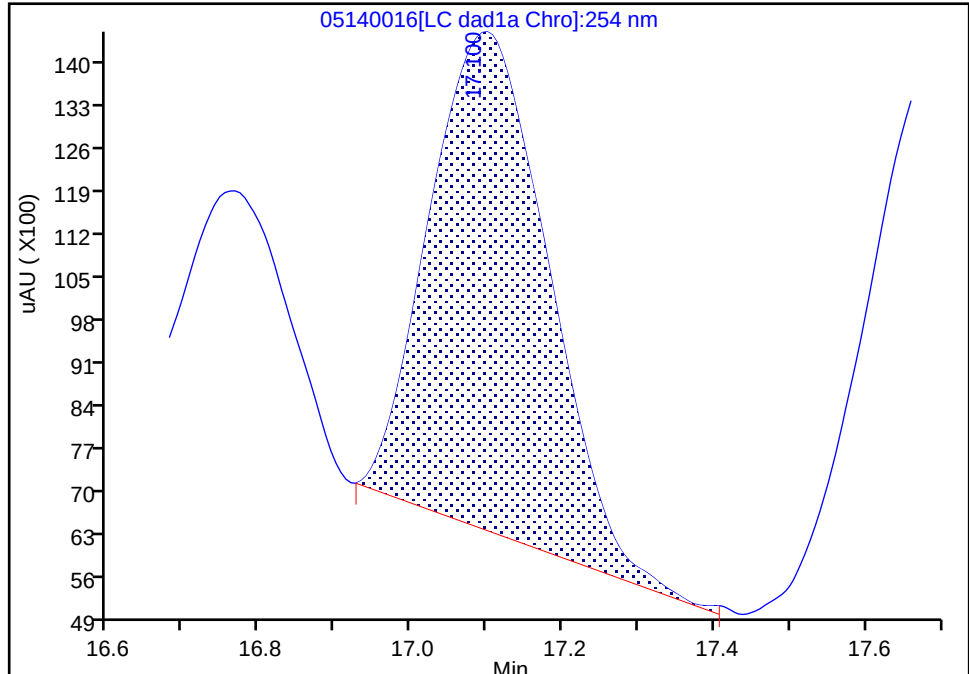
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Injection Date: 14-May-2020 21:31:26 Instrument ID: CHHPLC_G2_LUNA
Lims ID: ICV FULL
Client ID:
Operator ID: CB ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

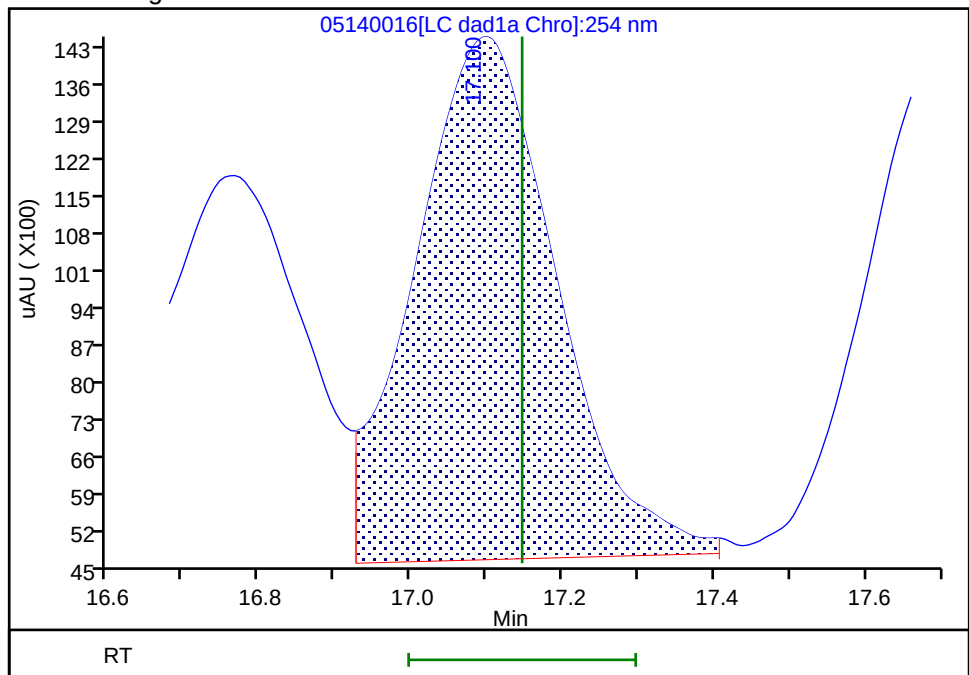
RT: 17.10
Area: 89570
Amount: 0.259447
Amount Units: ug/ml

Processing Integration Results



RT: 17.10
Area: 127384
Amount: 0.368978
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:33:24
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

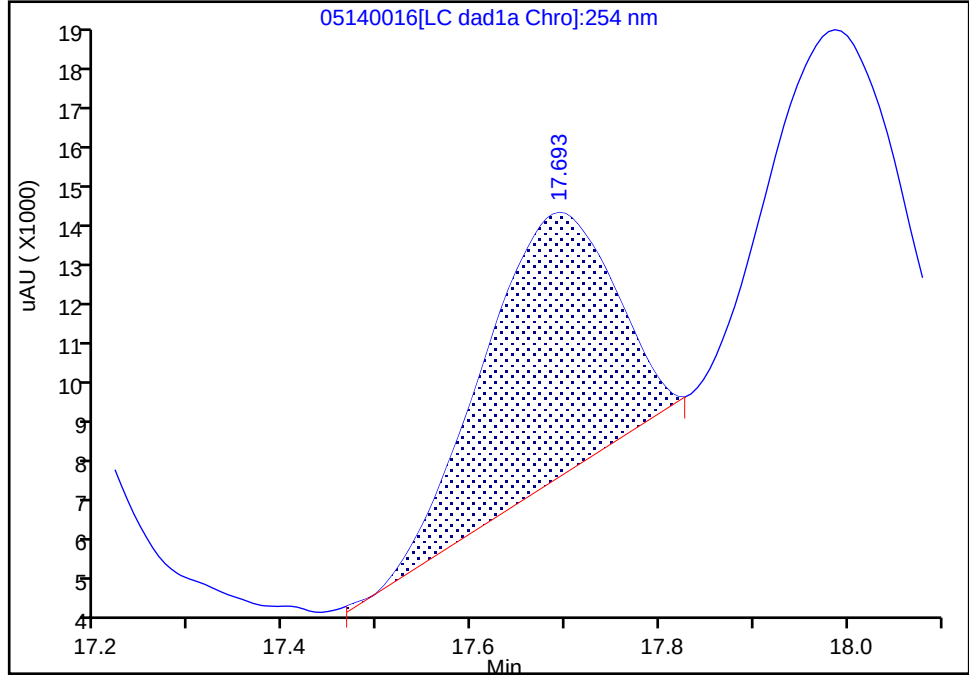
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d
Injection Date: 14-May-2020 21:31:26 Instrument ID: CHHPLC_G2_LUNA
Lims ID: ICV FULL
Client ID:
Operator ID: CB ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

17 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

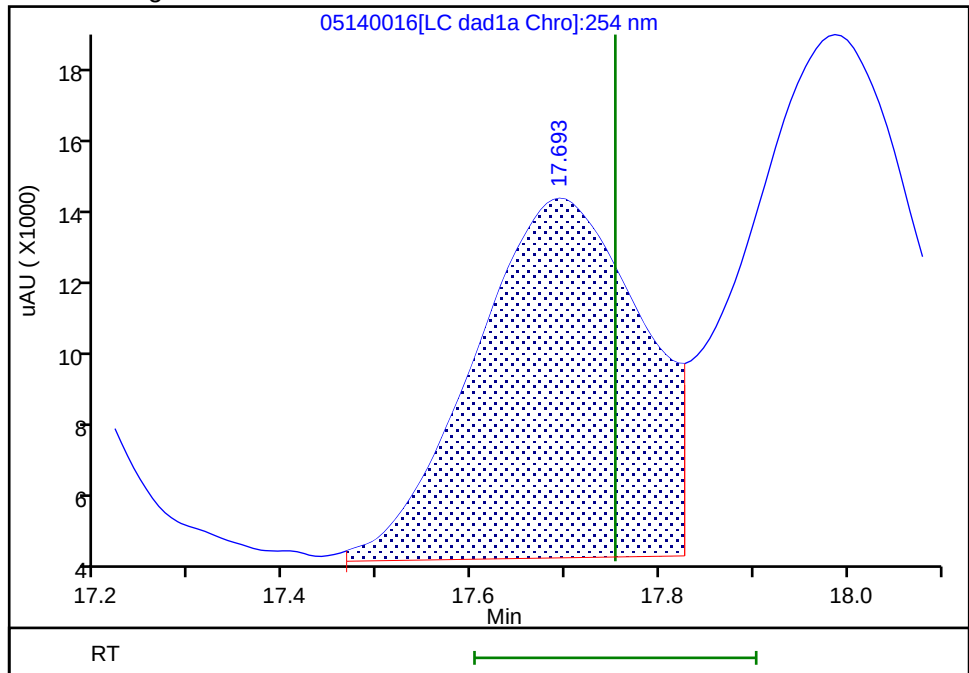
RT: 17.69
Area: 60008
Amount: 0.201149
Amount Units: ug/ml

Processing Integration Results



RT: 17.69
Area: 114753
Amount: 0.384655
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:33:24
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

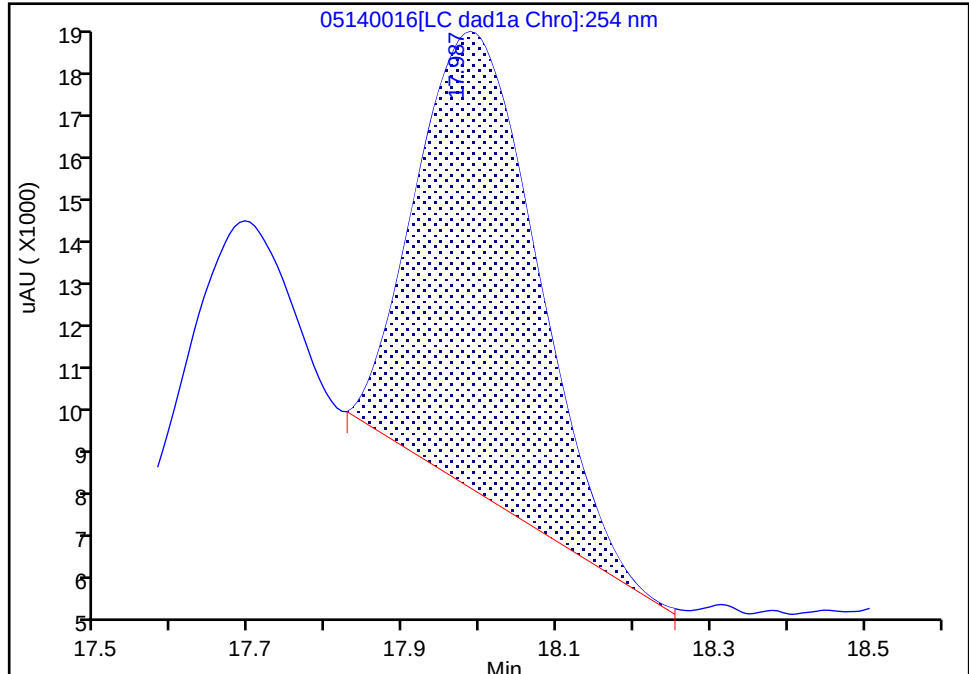
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Injection Date: 14-May-2020 21:31:26 Instrument ID: CHHPLC_G2_LUNA
Lims ID: ICV FULL
Client ID:
Operator ID: CB ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

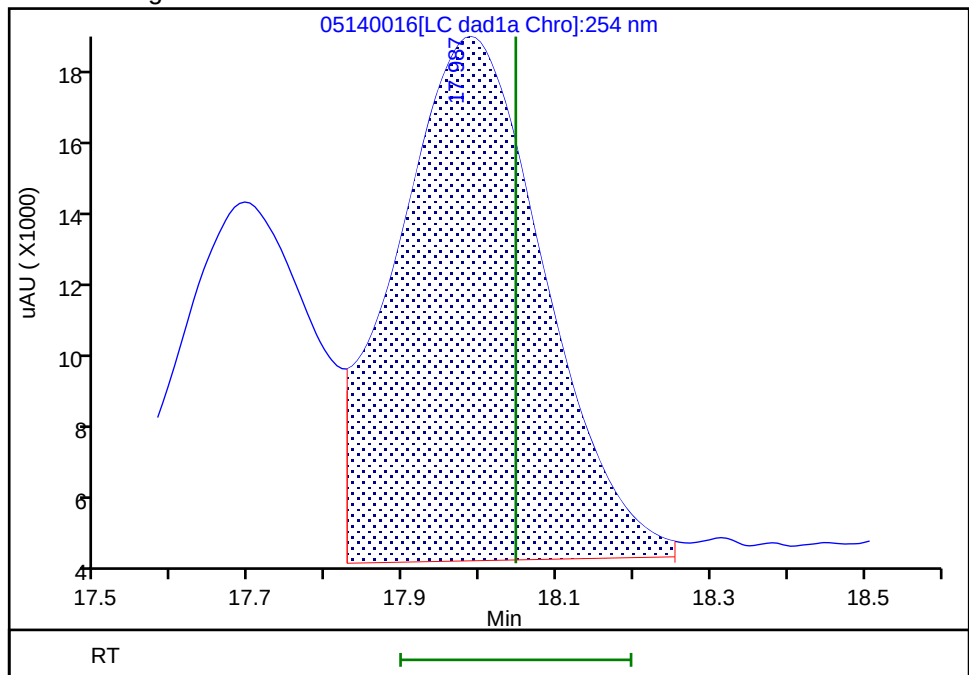
RT: 17.99
Area: 111749
Amount: 0.240211
Amount Units: ug/ml

Processing Integration Results



RT: 17.99
Area: 178475
Amount: 0.383643
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:33:24
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

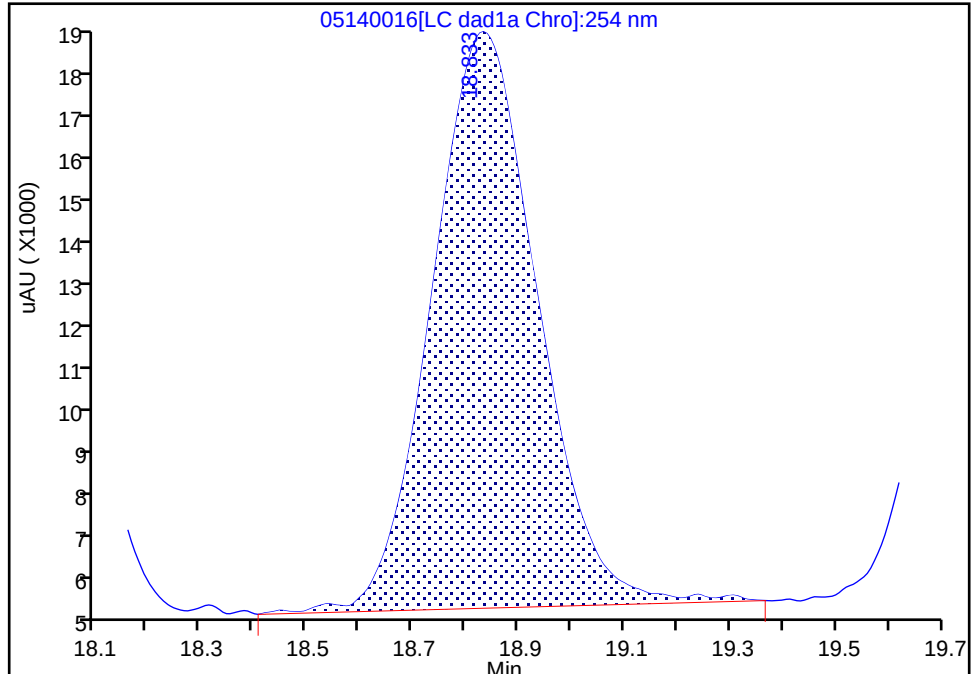
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d
Injection Date: 14-May-2020 21:31:26 Instrument ID: CHHPLC_G2_LUNA
Lims ID: ICV FULL
Client ID:
Operator ID: CB ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

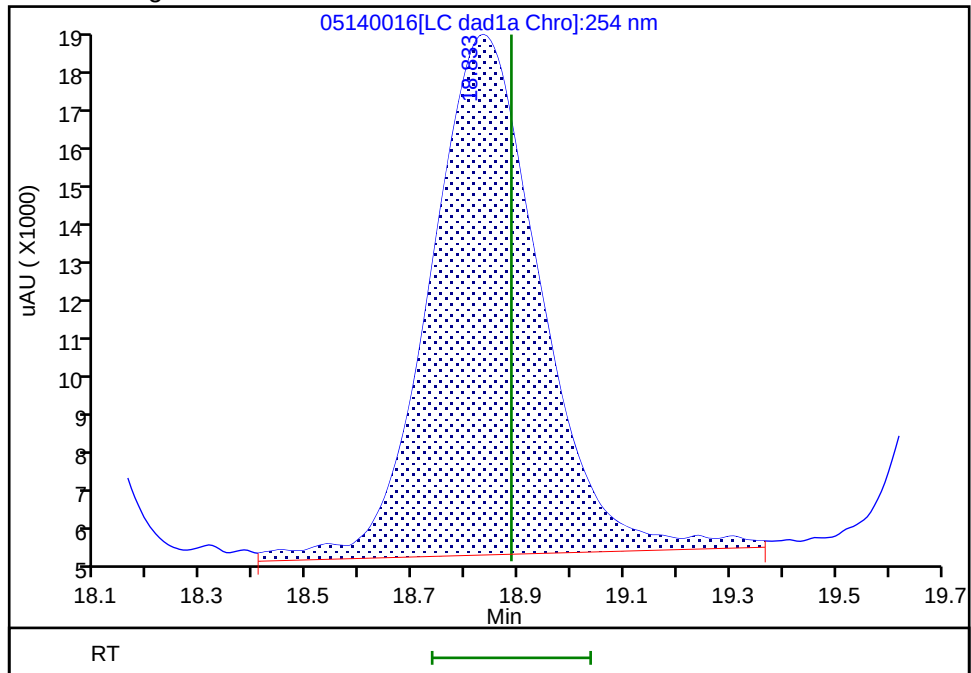
RT: 18.83
Area: 187655
Amount: 0.397195
Amount Units: ug/ml

Processing Integration Results



RT: 18.83
Area: 198368
Amount: 0.419870
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:33:24
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

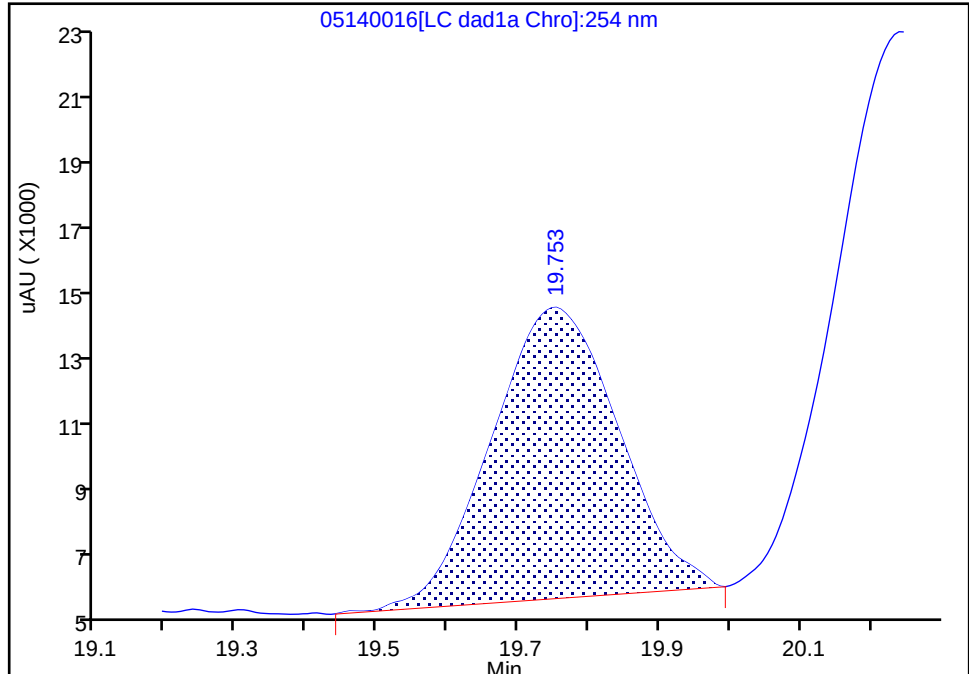
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Injection Date: 14-May-2020 21:31:26 Instrument ID: CHHPLC_G2_LUNA
Lims ID: ICV FULL
Client ID:
Operator ID: CB ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

20 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

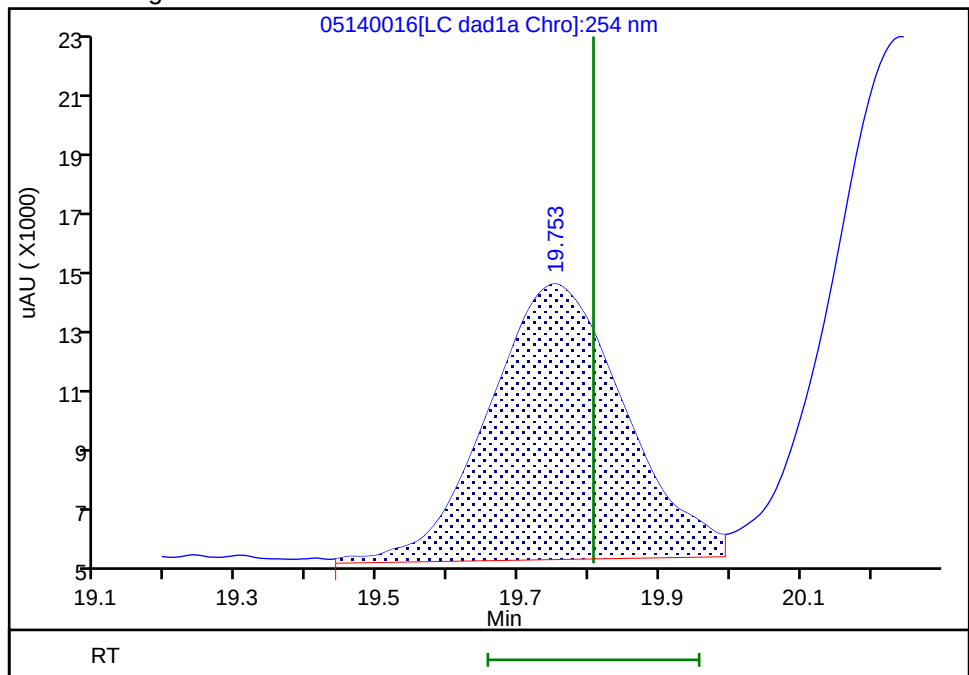
RT: 19.75
Area: 106845
Amount: 0.315968
Amount Units: ug/ml

Processing Integration Results



RT: 19.75
Area: 121088
Amount: 0.403336
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:33:24
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

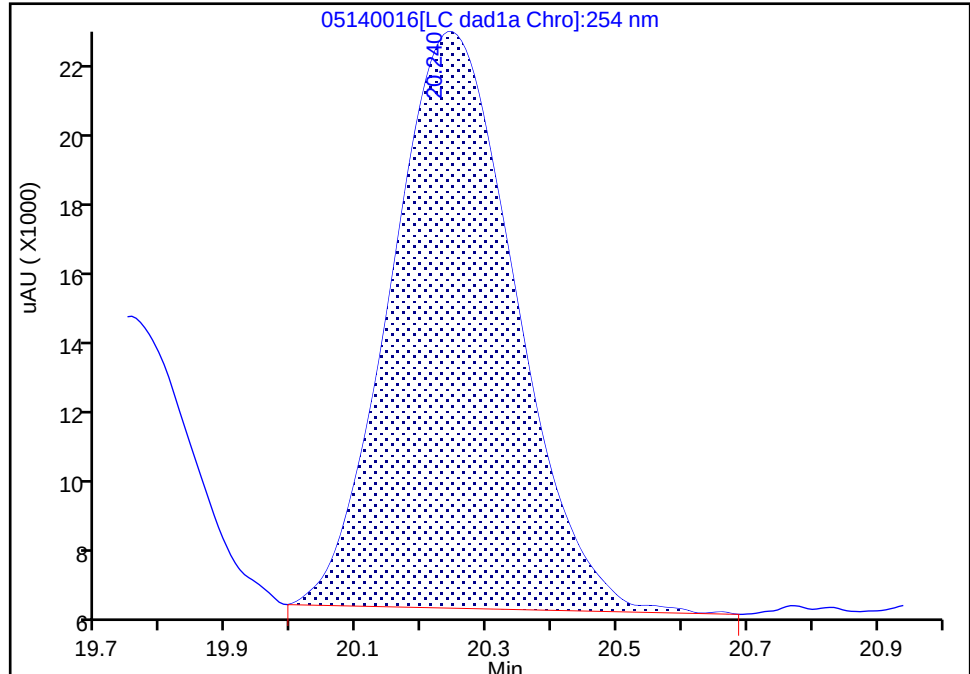
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d
Injection Date: 14-May-2020 21:31:26 Instrument ID: CHHPLC_G2_LUNA
Lims ID: ICV FULL
Client ID:
Operator ID: CB ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

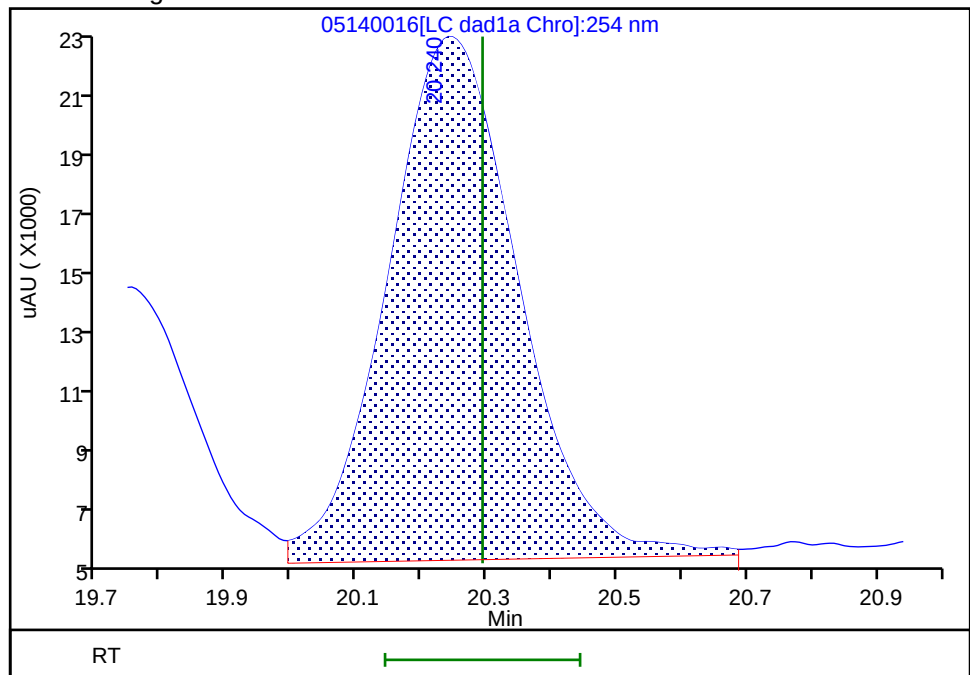
RT: 20.24
Area: 217350
Amount: 0.339549
Amount Units: ug/ml

Processing Integration Results



RT: 20.24
Area: 236153
Amount: 0.368924
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 15-May-2020 11:33:24
Audit Action: Assigned New Baseline

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: ICV 280-494886/26 Calibration Date: 05/15/2020 03:21
Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06
GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 05/15/2020 02:46
Lab File ID: 05140026.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	435816	391496		360	400	-10.2	15.0
DNX	Ave	321206	289486		361	400	-9.9	15.0
MNX	Lin2		268209		449	467	-3.8	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: ICV 280-494886/26 Calibration Date: 05/15/2020 03:21
Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06
GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 05/15/2020 02:46
Lab File ID: 05140026.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.41	5.27	5.57
DNX	6.22	6.08	6.38
MNX	7.73	7.59	7.89

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140026.D
 Lims ID: ICV DMT
 Client ID:
 Sample Type: ICV
 Inject. Date: 15-May-2020 03:21:17 ALS Bottle#: 26 Worklist Smp#: 26
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: ICV DMT
 Misc. Info.: 280-0091518-026
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist:
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 15-May-2020 12:01:05 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0318

First Level Reviewer: zhangji

Date: 15-May-2020 11:38:34

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.408	5.417	-0.009	156755	0.4004	0.3597	
4 DNX	1	6.215	6.231	-0.016	115910	0.4004	0.3609	
7 MNX	1	7.728	7.744	-0.016	125200	0.4668	0.4488	

Reagents:

8330_OP_DMT_00008

Amount Added: 40.00

Units: uL

Report Date: 15-May-2020 12:01:06

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140026.d

Injection Date: 15-May-2020 03:21:17

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: ICV DMT

Worklist Smp#: 26

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

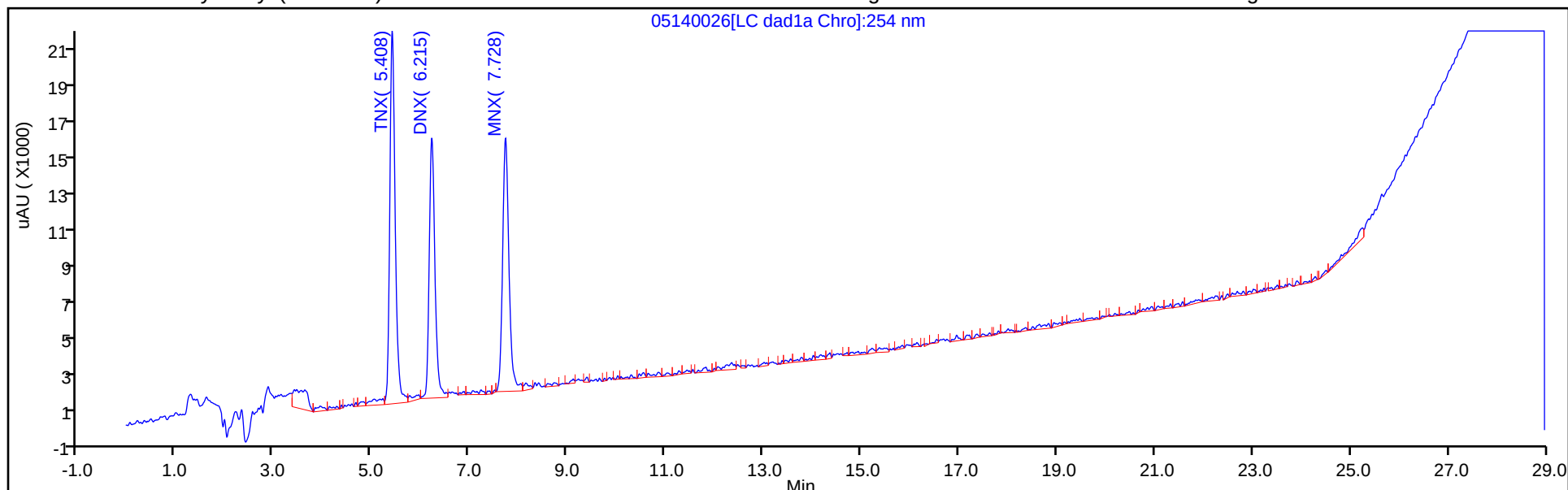
ALS Bottle#: 26

Method: G2_8330_Luna

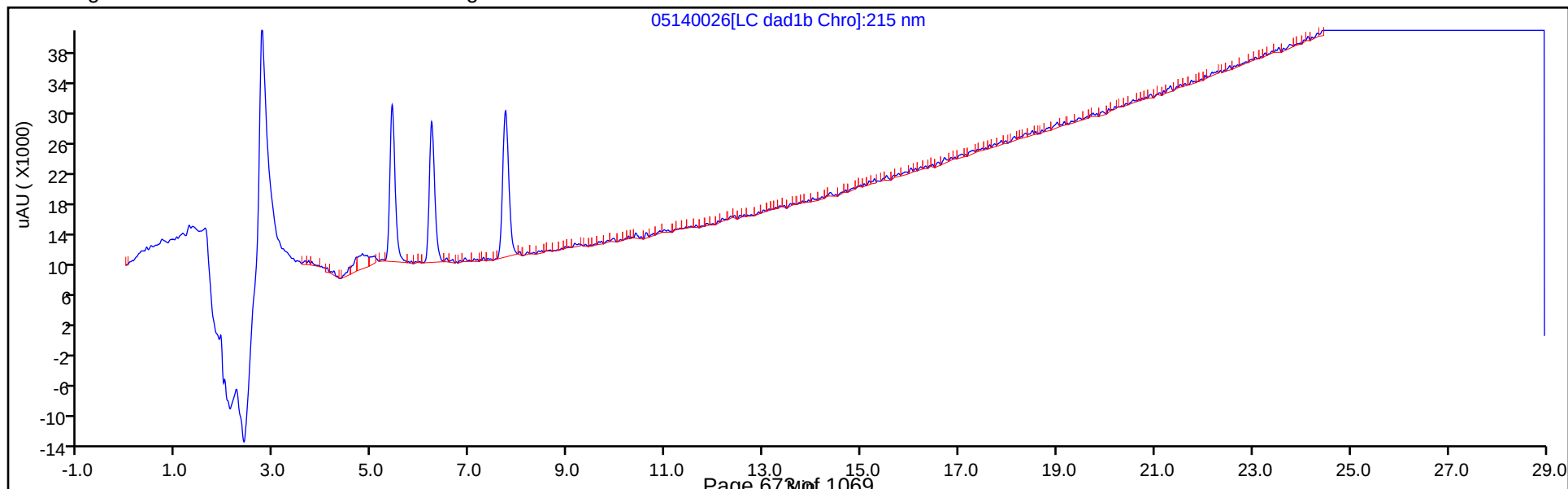
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCV 280-498568/26 Calibration Date: 06/13/2020 04:22
 Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16
 GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 05/14/2020 20:56
 Lab File ID: 06120026.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin2		186156		233	250	-6.9	15.0
Picric acid	Ave	193810	188748		243	250	-2.6	15.0
RDX	Ave	244360	227920		233	250	-6.7	15.0
Nitrobenzene	Ave	439227	416498		238	251	-5.2	15.0
1,3-Dinitrobenzene	Ave	674189	654311		243	251	-2.9	15.0
Nitroglycerin	Ave	126803	143387		2830	2500	13.1	15.0
2-Nitrotoluene	Ave	272965	251064		230	250	-8.0	15.0
4-Nitrotoluene	Ave	240881	233106		242	251	-3.2	15.0
4-Amino-2,6-dinitrotoluene	Ave	345235	321550		233	250	-6.9	15.0
3-Nitrotoluene	Ave	298327	300188		252	250	0.6	15.0
2-Amino-4,6-dinitrotoluene	Ave	465211	460199		248	251	-1.1	15.0
1,3,5-Trinitrobenzene	Ave	472451	481972		256	251	2.0	15.0
2,6-Dinitrotoluene	Lin2		310801		254	251	1.4	15.0
2,4-Dinitrotoluene	Ave	640113	616442		242	251	-3.7	15.0
Tetryl	Ave	368678	351118		239	251	-4.8	15.0
2,4,6-Trinitrotoluene	Lin1		393171		238	251	-5.2	15.0
PETN	Lin1		141954		2530	2500	1.3	15.0
1,2-Dinitrobenzene	Lin1		293836		258	250	3.3	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCV 280-498568/26 Calibration Date: 06/13/2020 04:22
 Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16
 GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 05/14/2020 20:56
 Lab File ID: 06120026.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	7.15	7.01	7.31
Picric acid	8.47	8.38	8.68
RDX	9.37	9.24	9.54
Nitrobenzene	12.26	12.13	12.43
1,3-Dinitrobenzene	15.80	15.68	15.98
Nitroglycerin	16.03	15.92	16.22
2-Nitrotoluene	16.73	16.60	16.90
4-Nitrotoluene	17.01	16.89	17.19
4-Amino-2,6-dinitrotoluene	17.47	17.34	17.64
3-Nitrotoluene	17.94	17.82	18.12
2-Amino-4,6-dinitrotoluene	18.41	18.28	18.58
1,3,5-Trinitrobenzene	19.14	19.00	19.30
2,6-Dinitrotoluene	20.07	19.93	20.23
2,4-Dinitrotoluene	20.58	20.45	20.75
Tetryl	23.89	23.76	24.06
2,4,6-Trinitrotoluene	24.90	24.76	25.06
PETN	25.43	25.30	25.60
1,2-Dinitrobenzene	13.27	13.14	13.44

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\06120026.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 13-Jun-2020 04:22:47 ALS Bottle#: 7 Worklist Smp#: 26
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: 280-0092371-026
 Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub6
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 16-Jun-2020 18:53:22 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX1024

First Level Reviewer: zhangji

Date: 16-Jun-2020 17:52:57

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	4.386	4.394	-0.008	106108	0.2500	0.2472	
2 2,4-diamino-6-nitrotoluene	1	4.986	5.008	-0.022	70199	0.2500	0.2720	
6 HMX	1	7.146	7.161	-0.015	46539	0.2500	0.2328	
5 2,4,6-Trinitrophenol	1	8.466	8.528	-0.062	47187	0.2500	0.2435	
8 RDX	1	9.372	9.387	-0.015	56980	0.2500	0.2332	
9 Nitrobenzene	1	12.259	12.281	-0.022	104541	0.2510	0.2380	
\$ 10 1,2-Dinitrobenzene	1	13.266	13.294	-0.028	73459	0.2500	0.2583	
11 3,5-Dinitroaniline	1	15.212	15.241	-0.029	123477	0.2500	0.2489	M
12 1,3-Dinitrobenzene	1	15.799	15.827	-0.028	163905	0.2505	0.2431	M
13 Nitroglycerin	2	16.032	16.067	-0.035	358467	2.50	2.83	
14 o-Nitrotoluene	1	16.726	16.747	-0.021	62766	0.2500	0.2299	M
15 p-Nitrotoluene	1	17.006	17.041	-0.035	58393	0.2505	0.2424	M
16 4-Amino-2,6-dinitrotoluene	1	17.466	17.487	-0.021	80468	0.2503	0.2331	M
17 m-Nitrotoluene	1	17.939	17.967	-0.028	75122	0.2503	0.2518	M
18 2-Amino-4,6-dinitrotoluene	1	18.406	18.427	-0.021	115510	0.2510	0.2483	M
19 1,3,5-Trinitrobenzene	1	19.139	19.154	-0.015	120734	0.2505	0.2555	M
20 2,6-Dinitrotoluene	1	20.066	20.081	-0.015	78011	0.2510	0.2544	M
21 2,4-Dinitrotoluene	1	20.579	20.601	-0.022	154727	0.2510	0.2417	M
22 Tetryl	1	23.886	23.908	-0.022	87955	0.2505	0.2386	
23 2,4,6-Trinitrotoluene	1	24.899	24.914	-0.015	98686	0.2510	0.2379	
24 PETN	2	25.426	25.448	-0.022	354885	2.50	2.53	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00064

Amount Added: 25.00

Units: uL

8330_ADDs_00027

Amount Added: 12.50

Units: uL

Report Date: 16-Jun-2020 18:53:22

Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120026.d

Injection Date: 13-Jun-2020 04:22:47

Instrument ID: CHHPLC_G2_LUNA

Operator ID: JZ

Lims ID: CCV

Worklist Smp#: 26

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

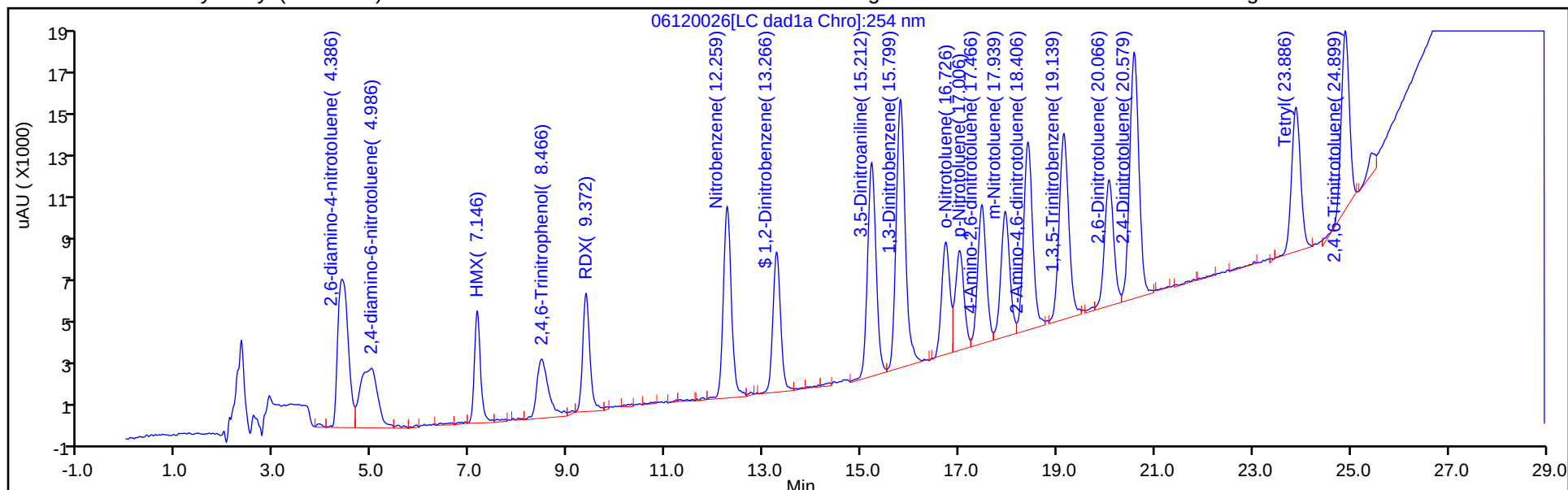
ALS Bottle#: 7

Method: G2_8330_Luna

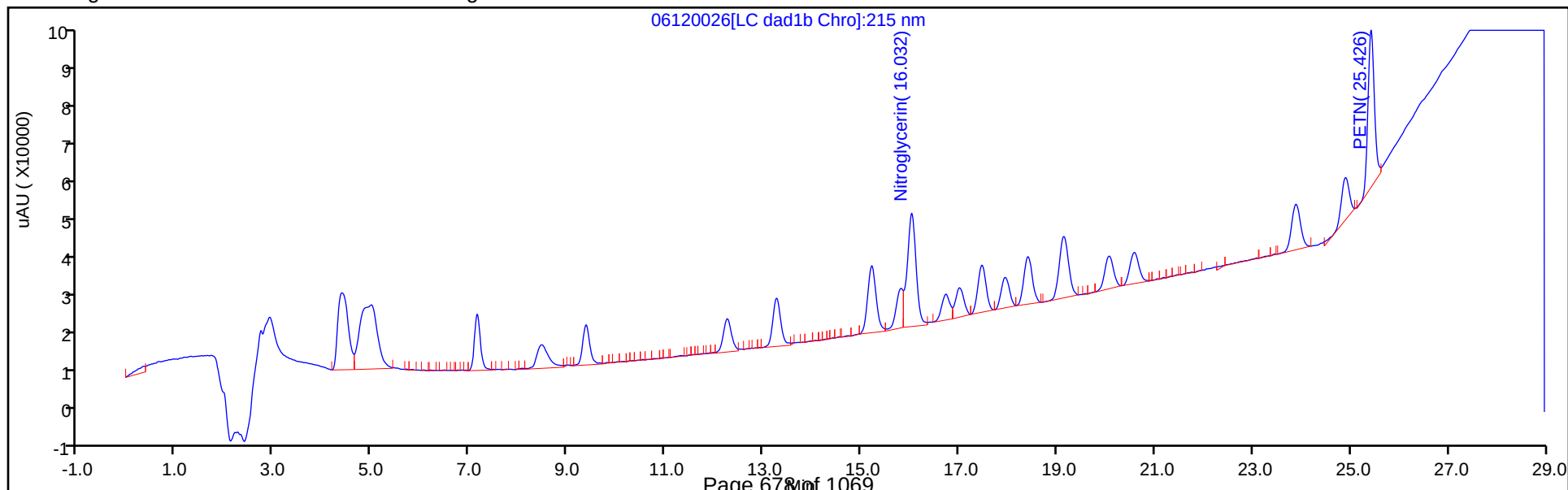
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver

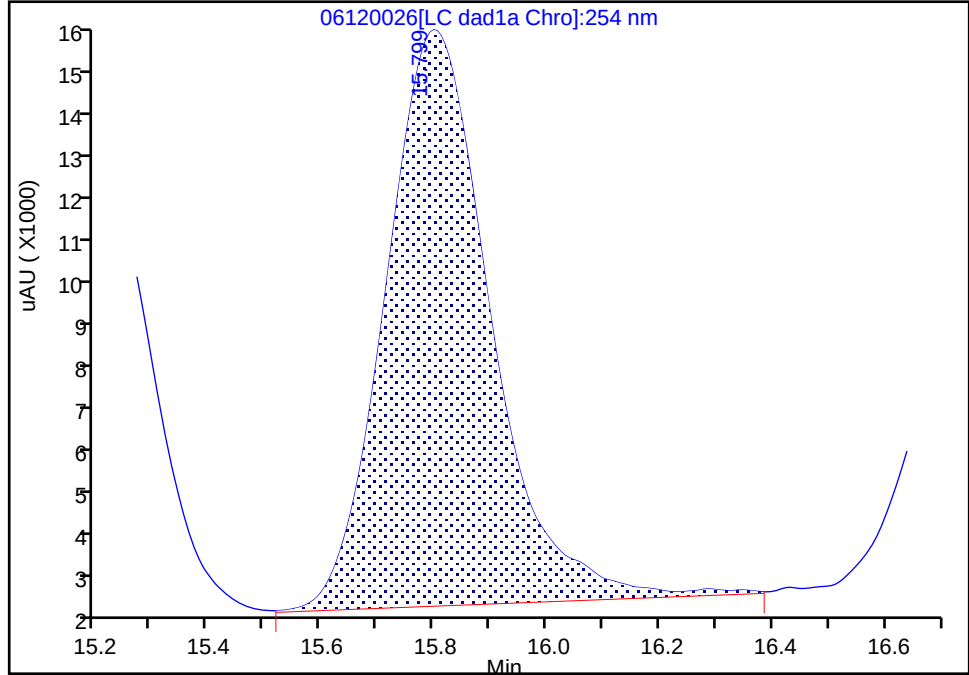
Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120026.d
Injection Date: 13-Jun-2020 04:22:47 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 26
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

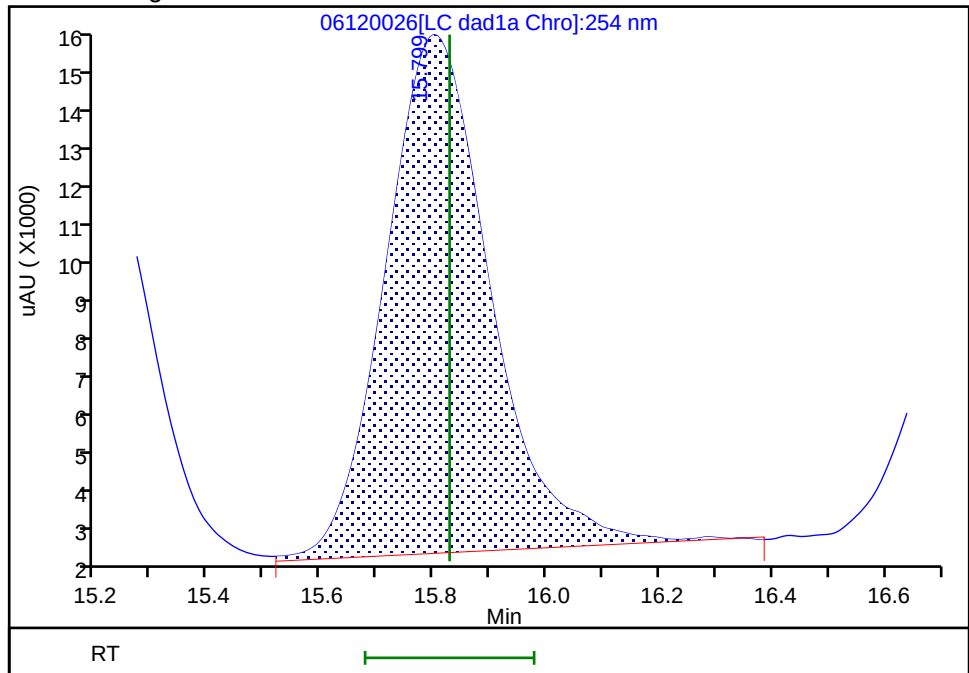
RT: 15.80
Area: 164295
Amount: 0.243693
Amount Units: ug/ml

Processing Integration Results



RT: 15.80
Area: 163905
Amount: 0.243114
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 16-Jun-2020 17:52:55

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

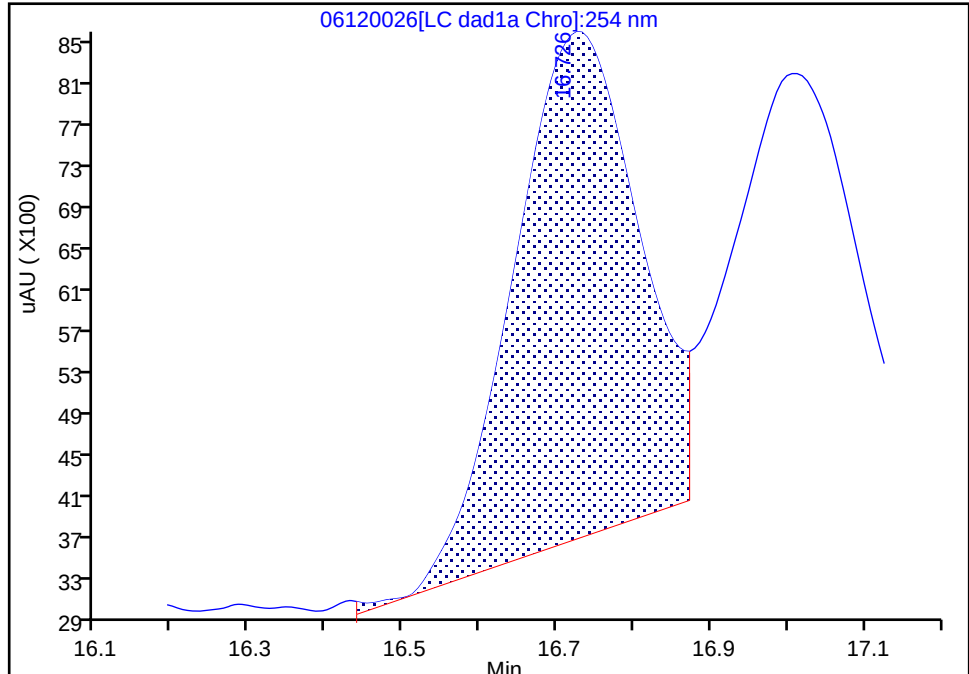
Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120026.d
Injection Date: 13-Jun-2020 04:22:47 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 26
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

14 o-Nitrotoluene, CAS: 88-72-2

Signal: 1

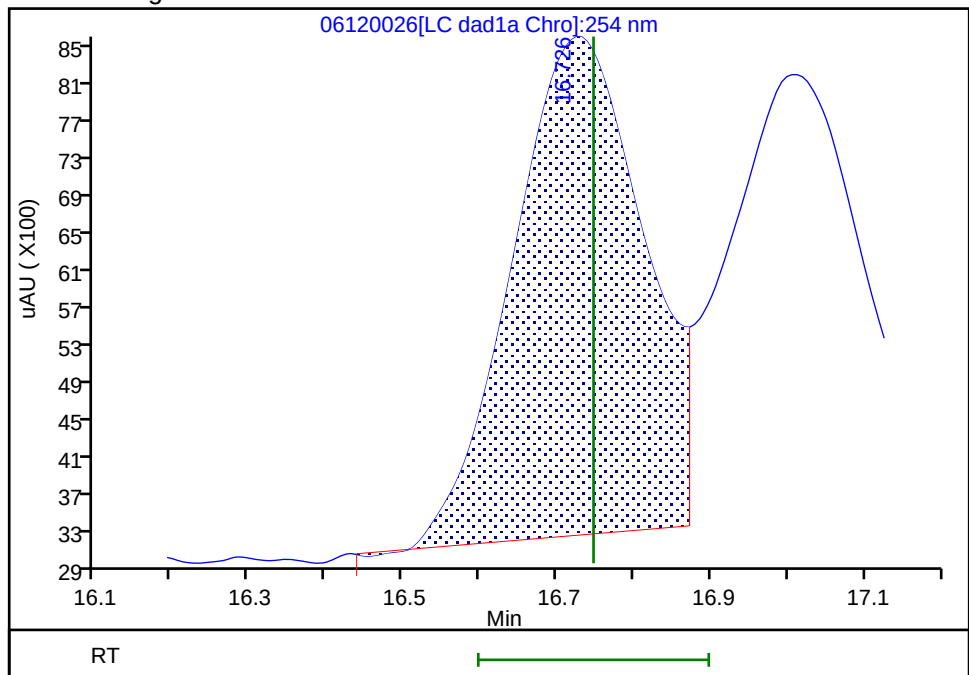
RT: 16.73
Area: 55733
Amount: 0.204177
Amount Units: ug/ml

Processing Integration Results



RT: 16.73
Area: 62766
Amount: 0.229942
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 16-Jun-2020 17:52:55
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

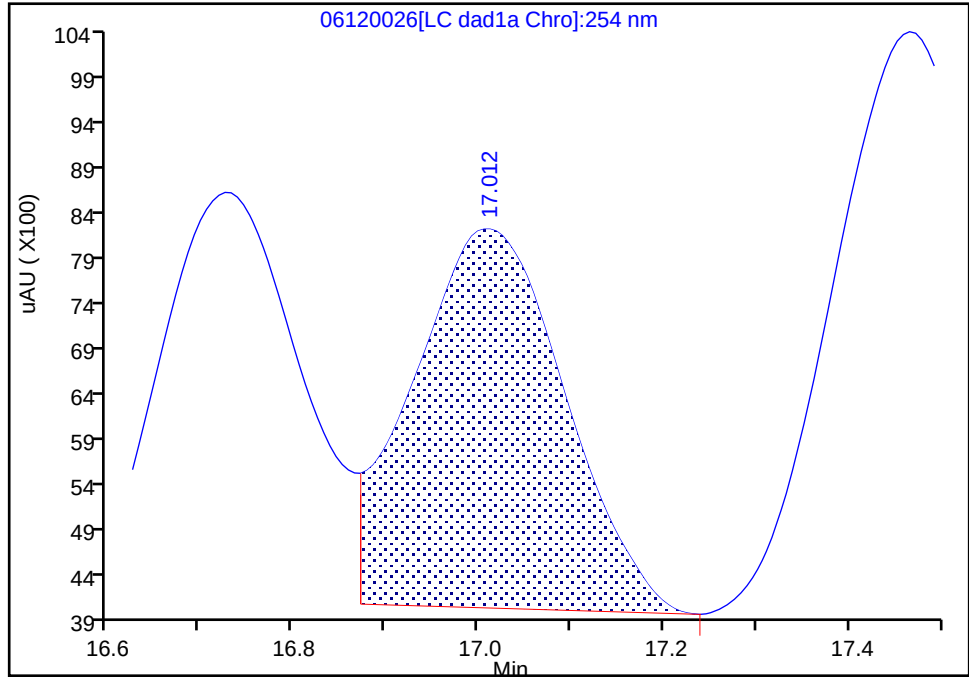
Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120026.d
Injection Date: 13-Jun-2020 04:22:47 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 26
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

15 p-Nitrotoluene, CAS: 99-99-0

Signal: 1

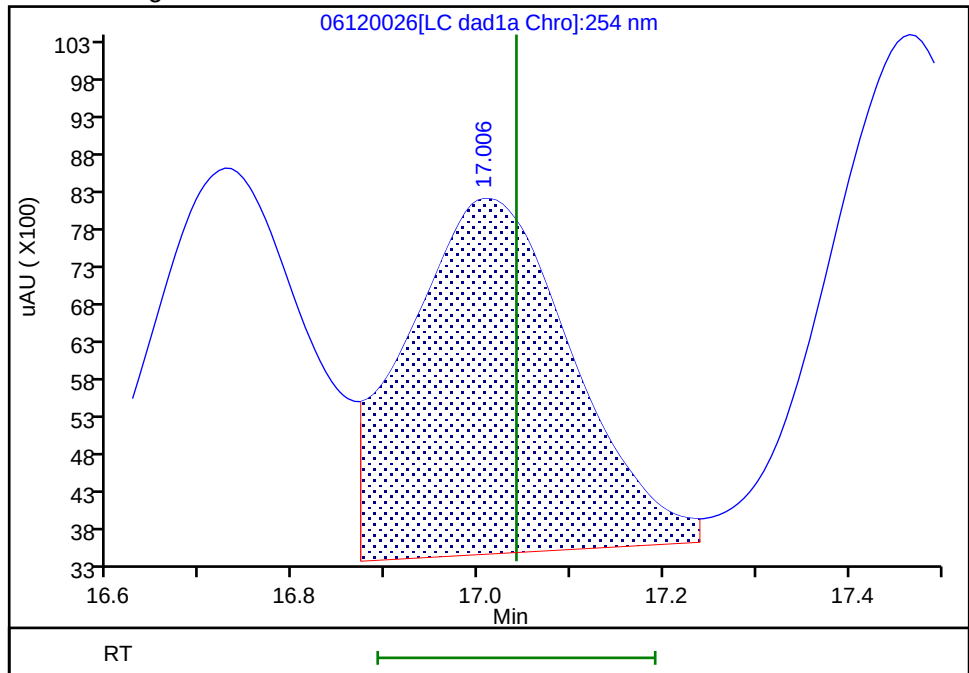
RT: 17.01
Area: 47591
Amount: 0.197570
Amount Units: ug/ml

Processing Integration Results



RT: 17.01
Area: 58393
Amount: 0.242414
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 16-Jun-2020 17:52:55

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

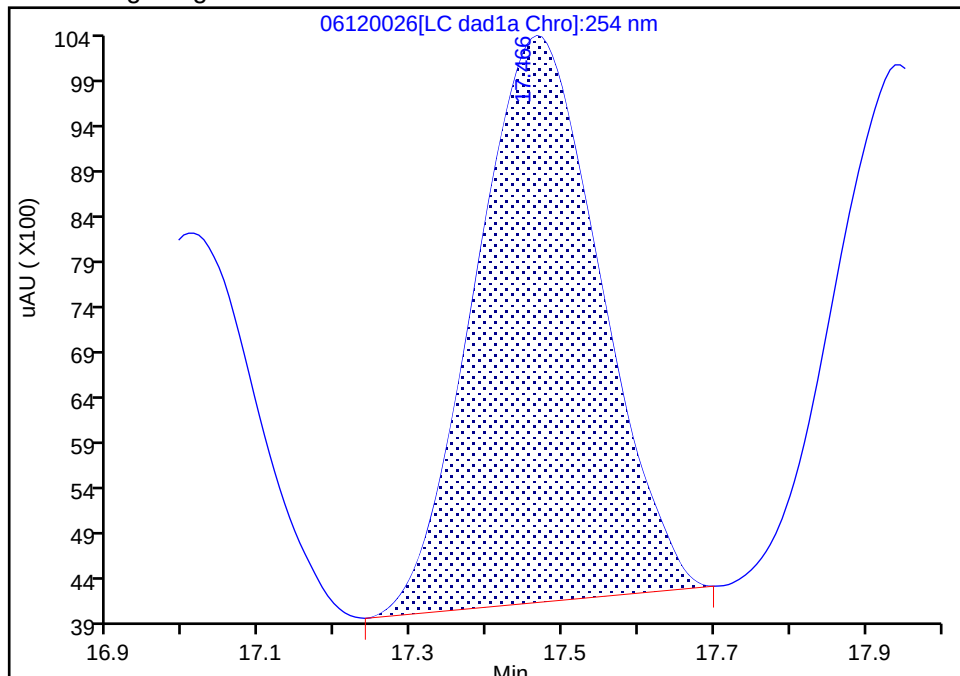
Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120026.d
Injection Date: 13-Jun-2020 04:22:47 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 26
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

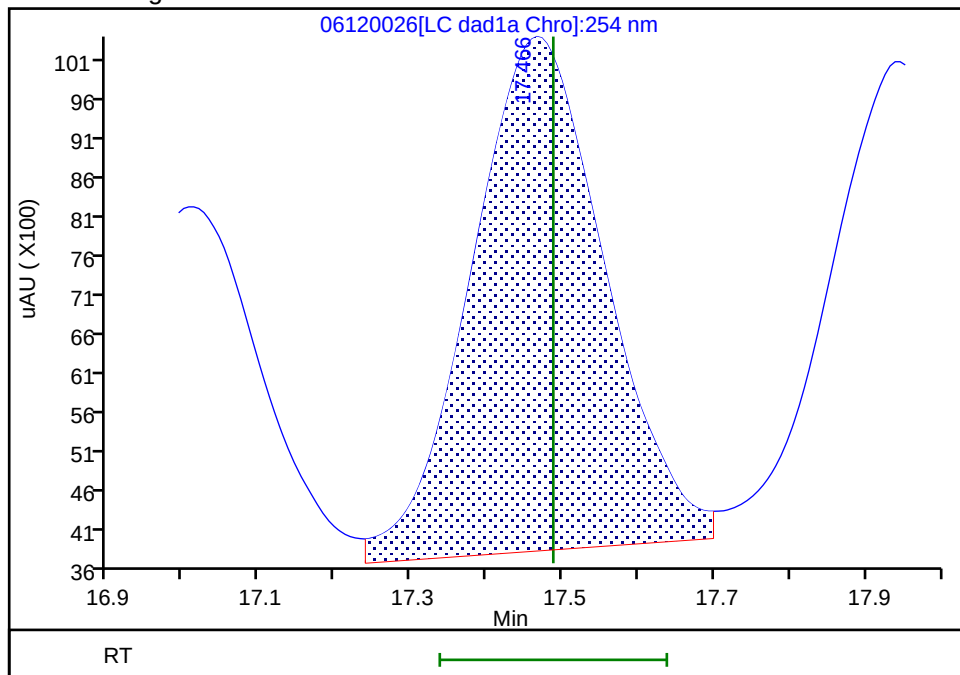
RT: 17.47
Area: 71415
Amount: 0.206859
Amount Units: ug/ml

Processing Integration Results



RT: 17.47
Area: 80468
Amount: 0.233082
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 16-Jun-2020 17:52:55

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

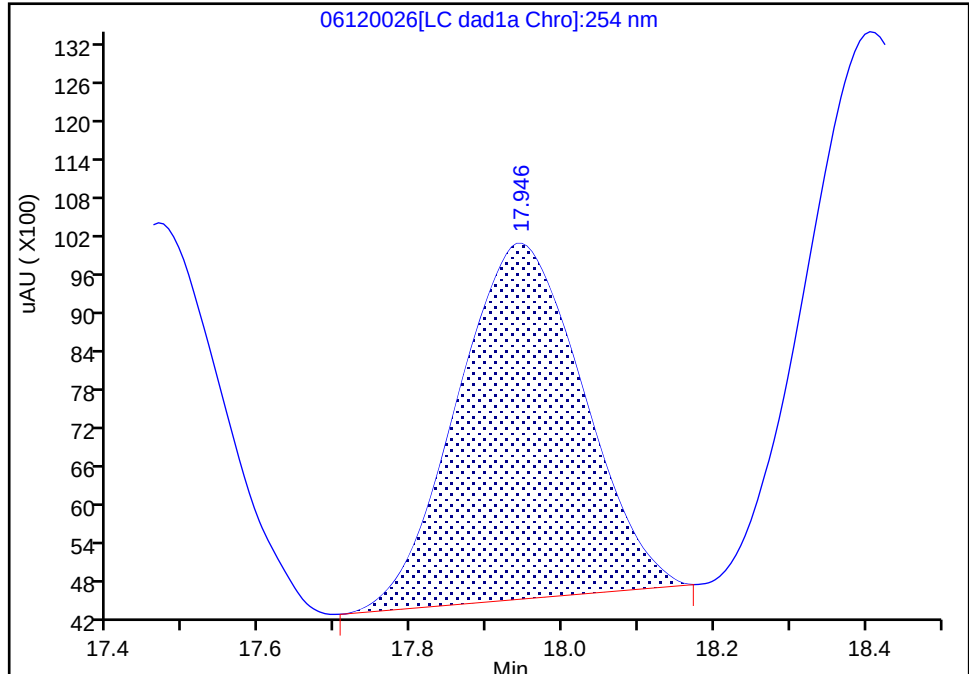
Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120026.d
Injection Date: 13-Jun-2020 04:22:47 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 26
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

17 m-Nitrotoluene, CAS: 99-08-1

Signal: 1

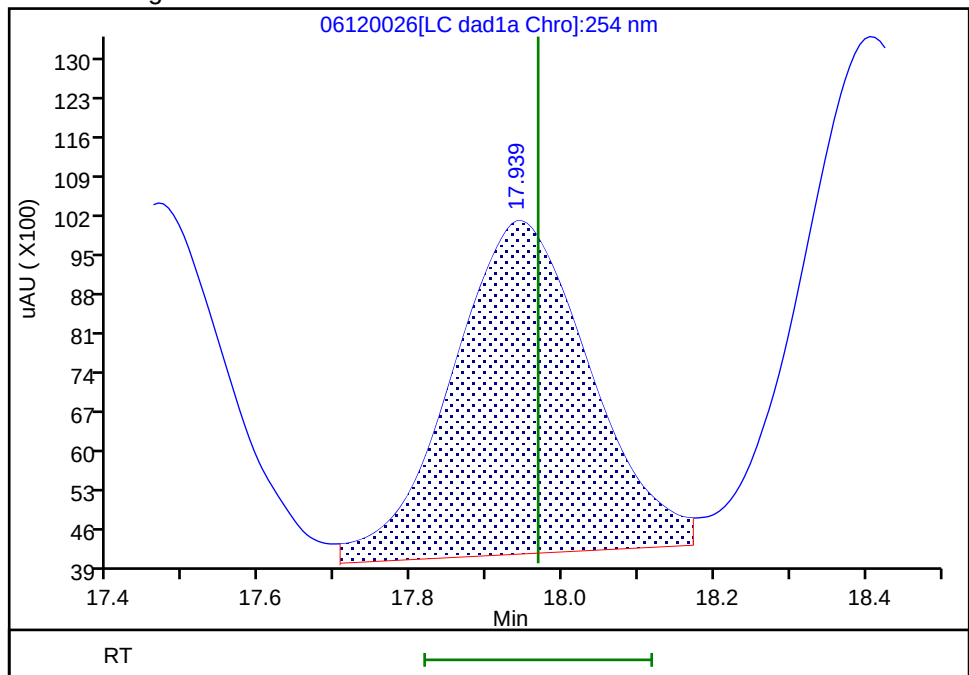
RT: 17.95
Area: 63558
Amount: 0.213048
Amount Units: ug/ml

Processing Integration Results



RT: 17.94
Area: 75122
Amount: 0.251811
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 16-Jun-2020 17:52:55

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

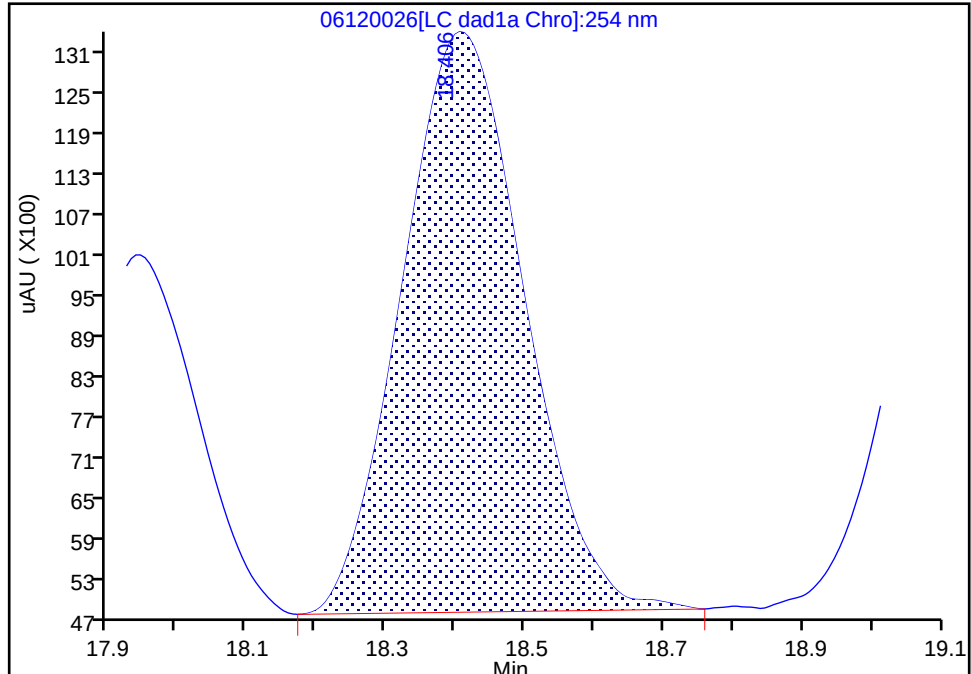
Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120026.d
Injection Date: 13-Jun-2020 04:22:47 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 26
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

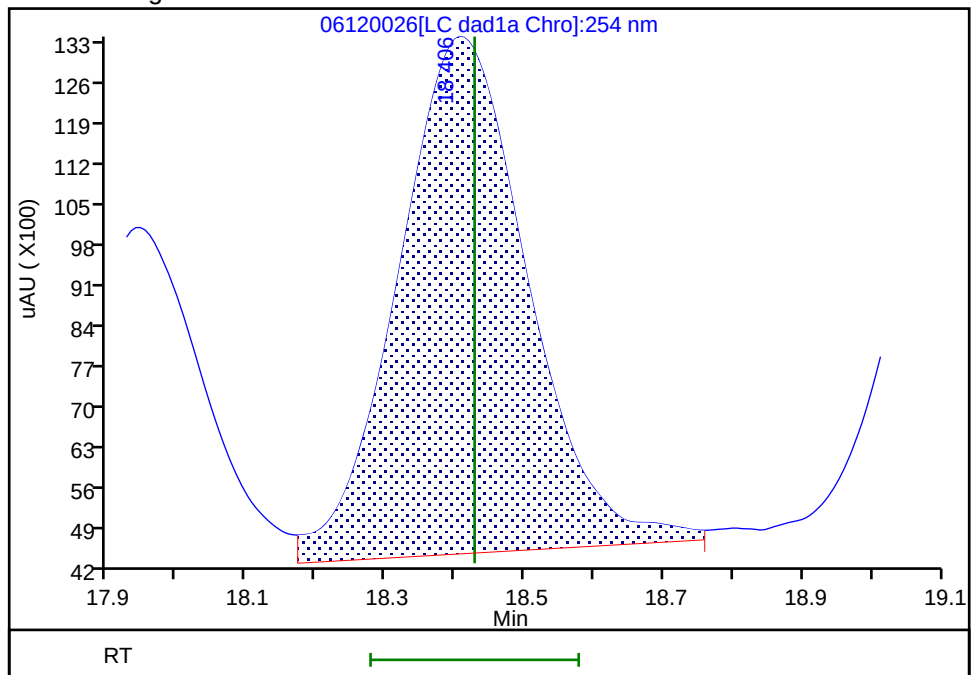
RT: 18.41
Area: 104193
Amount: 0.223969
Amount Units: ug/ml

Processing Integration Results



RT: 18.41
Area: 115510
Amount: 0.248296
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 16-Jun-2020 17:52:55

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

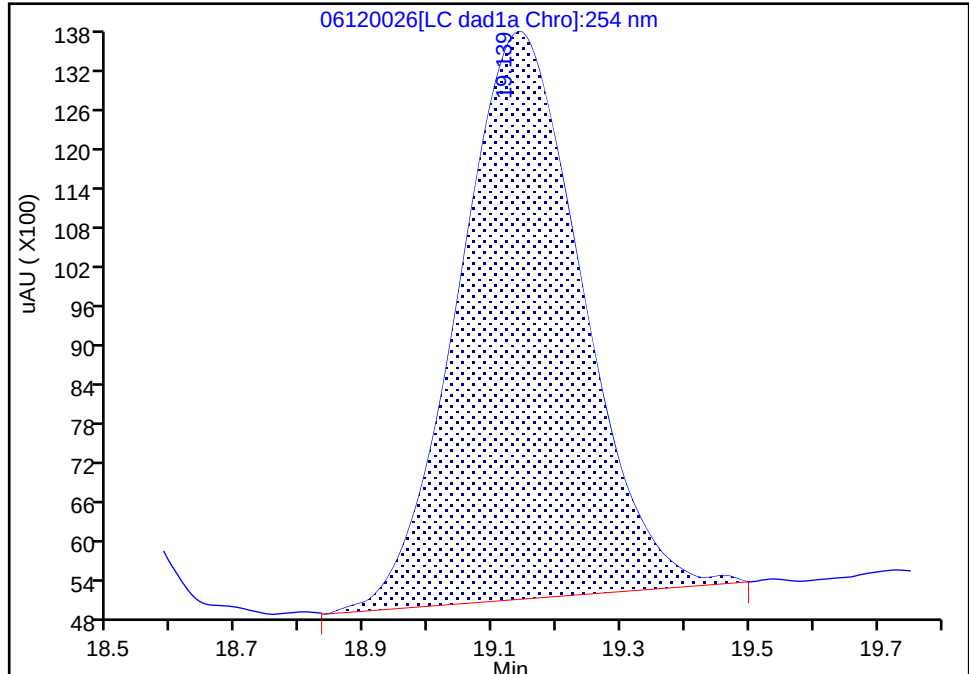
Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120026.d
Injection Date: 13-Jun-2020 04:22:47 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 26
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

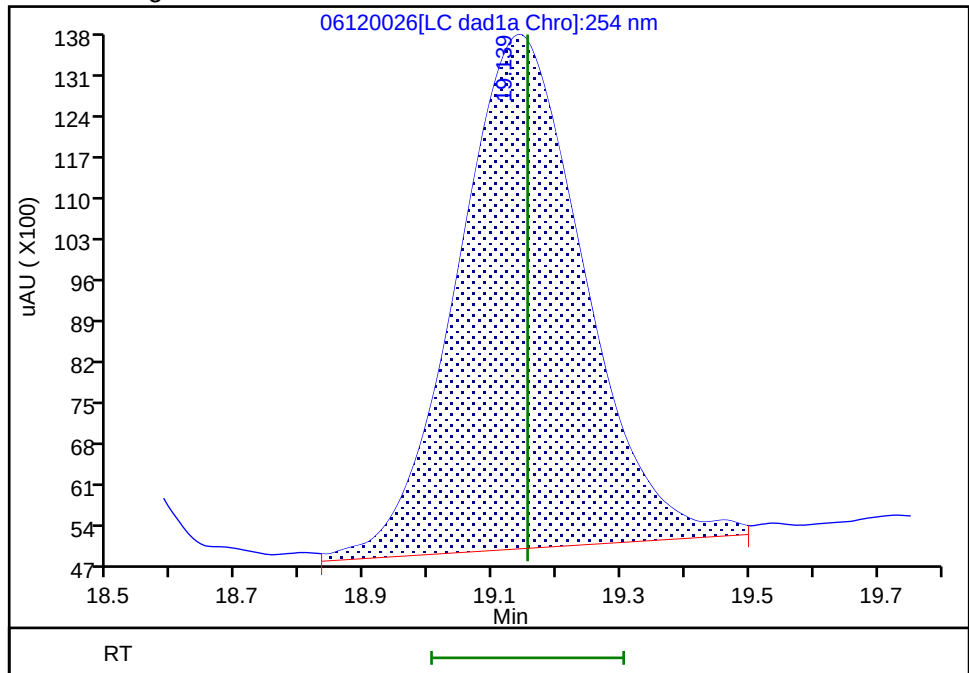
RT: 19.14
Area: 115574
Amount: 0.244627
Amount Units: ug/ml

Processing Integration Results



RT: 19.14
Area: 120734
Amount: 0.255548
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 16-Jun-2020 17:52:55

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

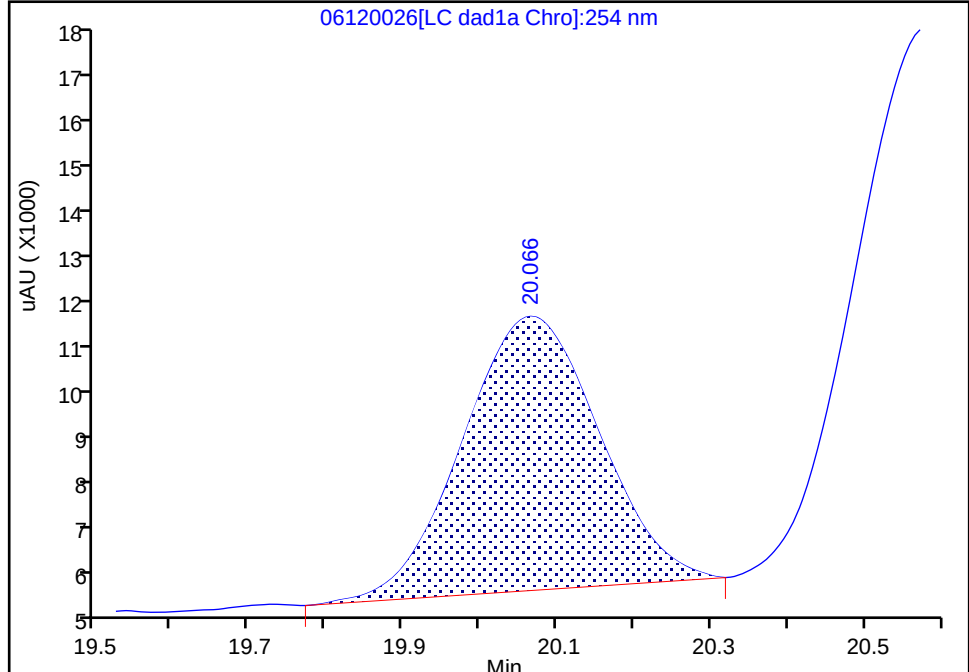
Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120026.d
Injection Date: 13-Jun-2020 04:22:47 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 26
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

20 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

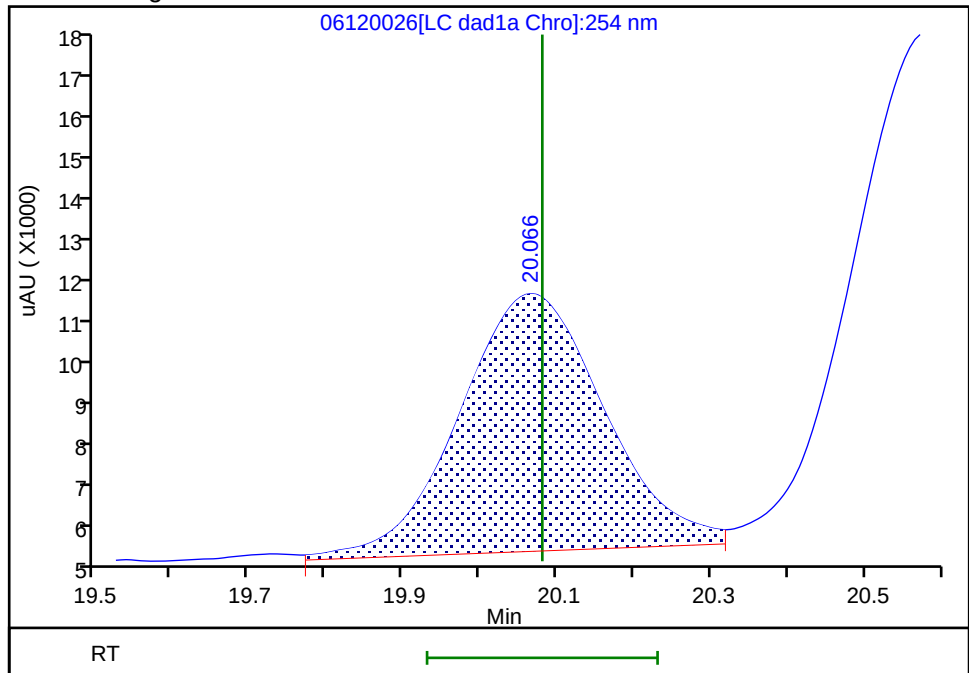
RT: 20.07
Area: 70762
Amount: 0.229329
Amount Units: ug/ml

Processing Integration Results



RT: 20.07
Area: 78011
Amount: 0.254393
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 16-Jun-2020 17:52:55
Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

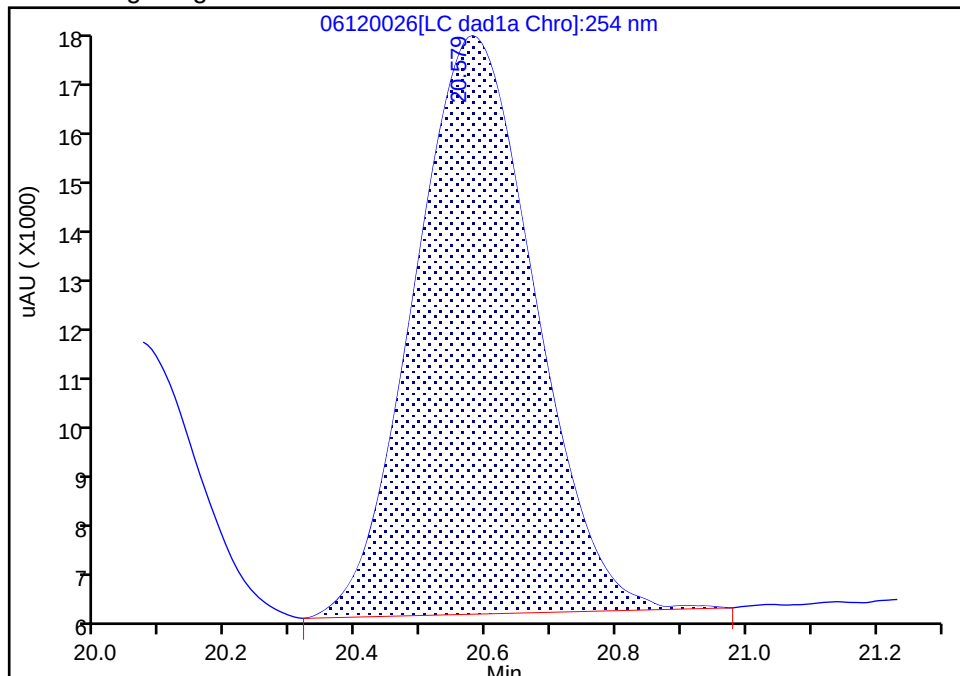
Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120026.d
Injection Date: 13-Jun-2020 04:22:47 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 26
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

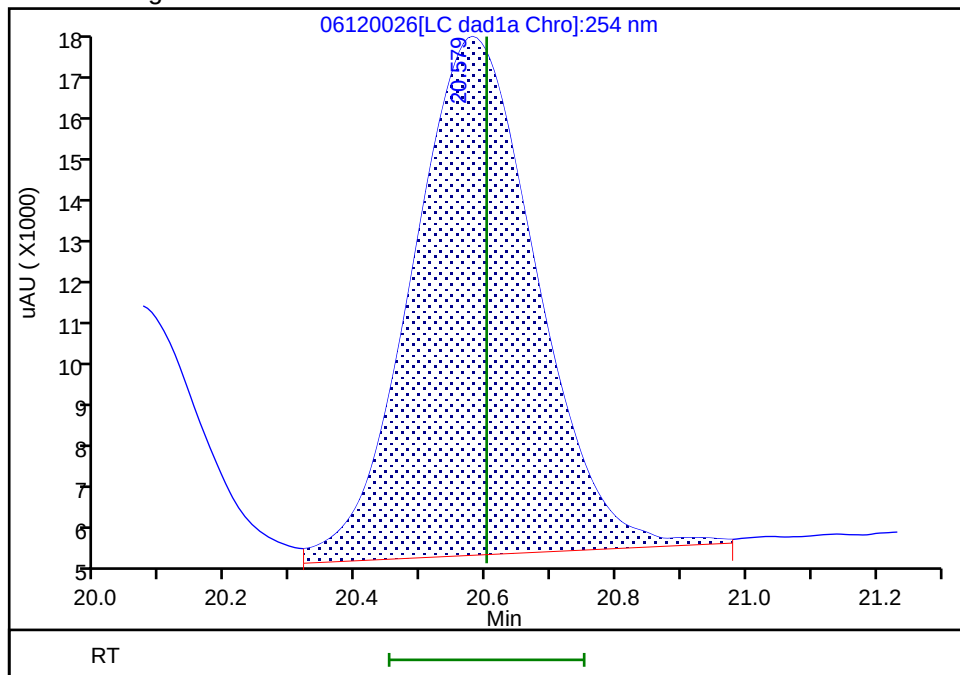
RT: 20.58
Area: 146648
Amount: 0.229097
Amount Units: ug/ml

Processing Integration Results



RT: 20.58
Area: 154727
Amount: 0.241718
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 16-Jun-2020 17:52:55

Audit Action: Assigned New Baseline

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-498568/27 Calibration Date: 06/13/2020 04:57
Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06
GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 05/15/2020 02:46
Lab File ID: 06120027.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	435816	409770		235	250	-6.0	15.0
DNX	Ave	321206	307357		239	250	-4.3	15.0
MNX	Lin2		273878		279	292	-4.3	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-498568/27 Calibration Date: 06/13/2020 04:57
Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06
GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 05/15/2020 02:46
Lab File ID: 06120027.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.53	5.36	5.66
DNX	6.37	6.19	6.49
MNX	7.93	7.73	8.03

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\06120027.D
 Lims ID: CCV DMT
 Client ID:
 Sample Type: CCV
 Inject. Date: 13-Jun-2020 04:57:45 ALS Bottle#: 8 Worklist Smp#: 27
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: CCV DMT
 Misc. Info.: 280-0092371-027
 Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub13
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 16-Jun-2020 18:53:22 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX1024

First Level Reviewer: zhangji

Date: 16-Jun-2020 17:53:06

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.527	5.509	0.018	102545	0.2503	0.2353	
4 DNX	1	6.367	6.336	0.031	76916	0.2503	0.2395	
7 MNX	1	7.927	7.876	0.051	79904	0.2918	0.2791	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00006

Amount Added: 12.50

Units: uL

Report Date: 16-Jun-2020 18:53:22

Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120027.d

Injection Date: 13-Jun-2020 04:57:45

Instrument ID: CHHPLC_G2_LUNA

Operator ID: JZ

Lims ID: CCV DMT

Worklist Smp#: 27

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

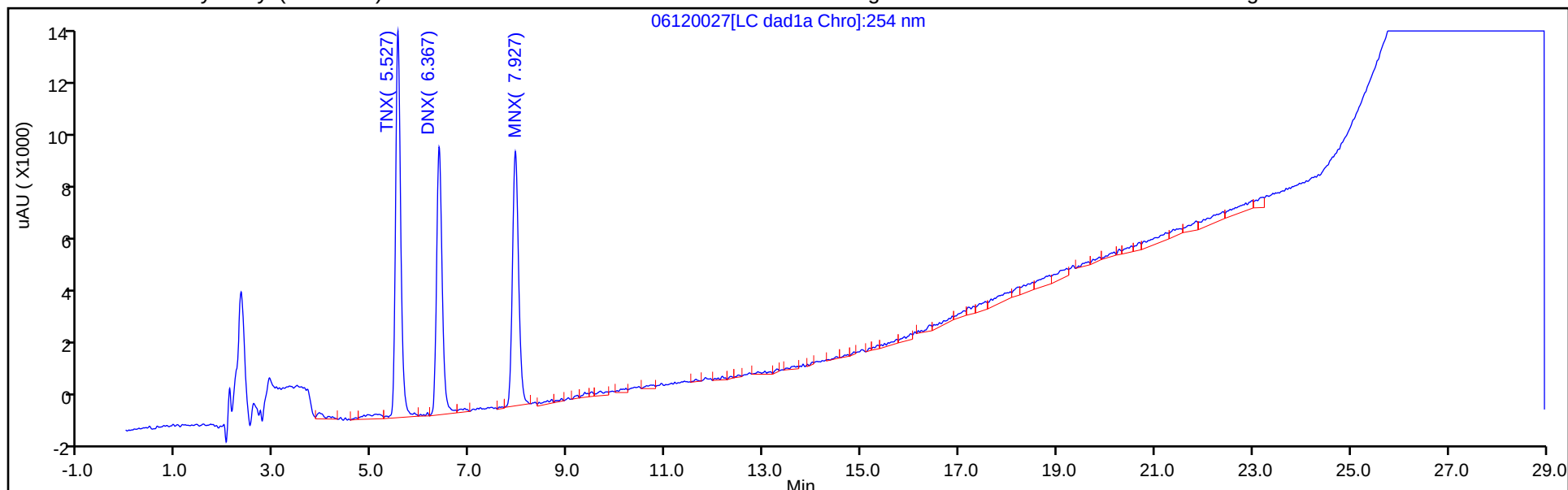
ALS Bottle#: 8

Method: G2_8330_Luna

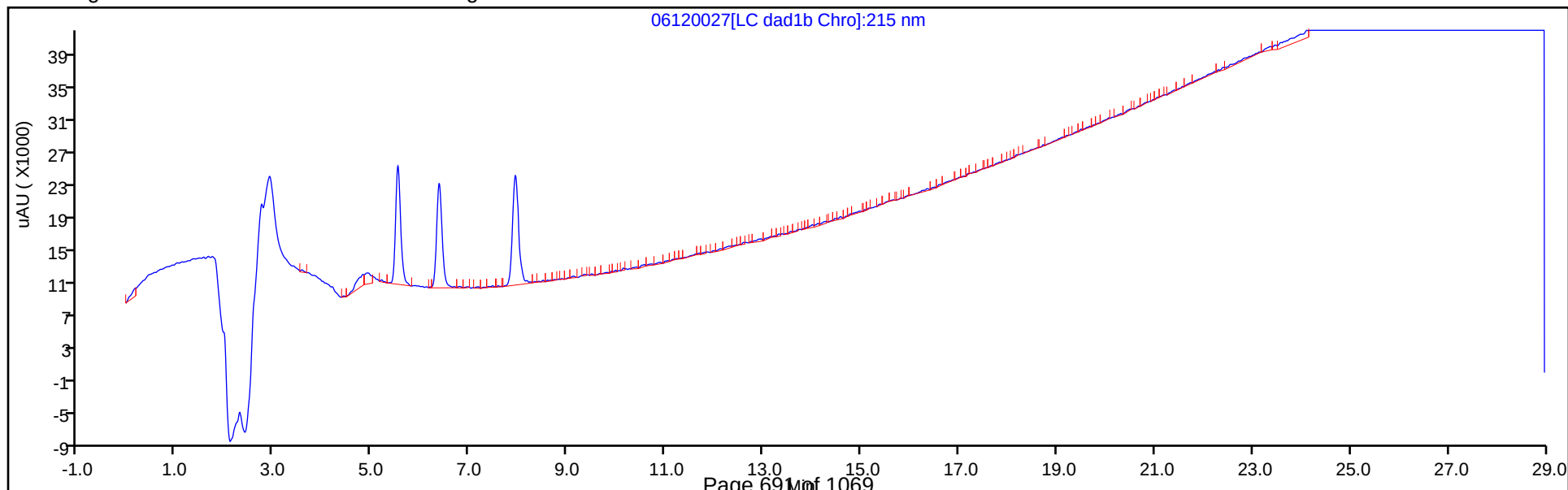
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Denver

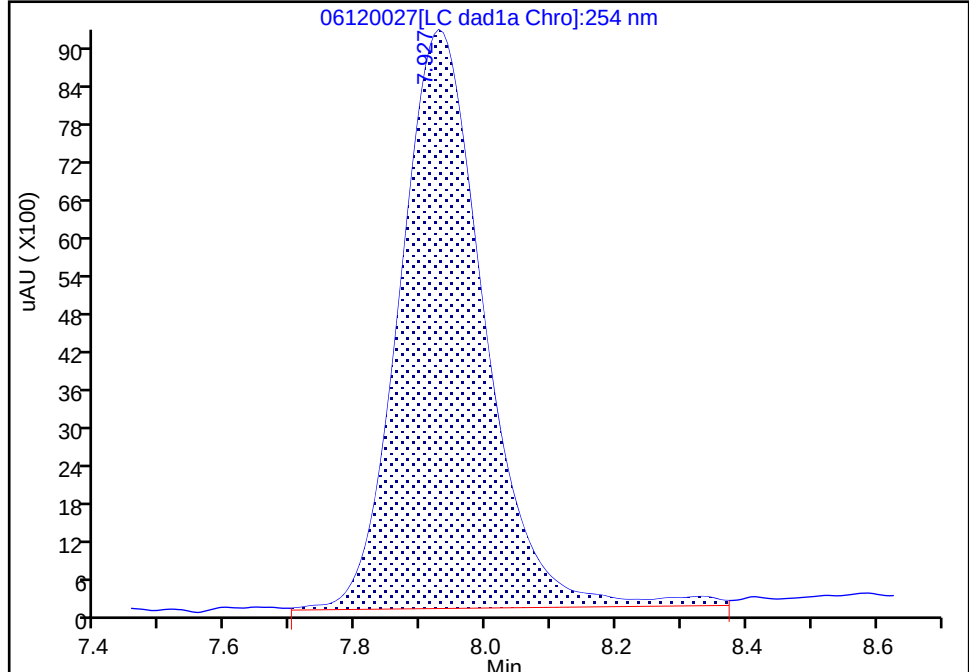
Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120027.d
Injection Date: 13-Jun-2020 04:57:45 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV DMT
Client ID:
Operator ID: JZ ALS Bottle#: 8 Worklist Smp#: 27
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

7 MNX, CAS: 5755-27-1

Signal: 1

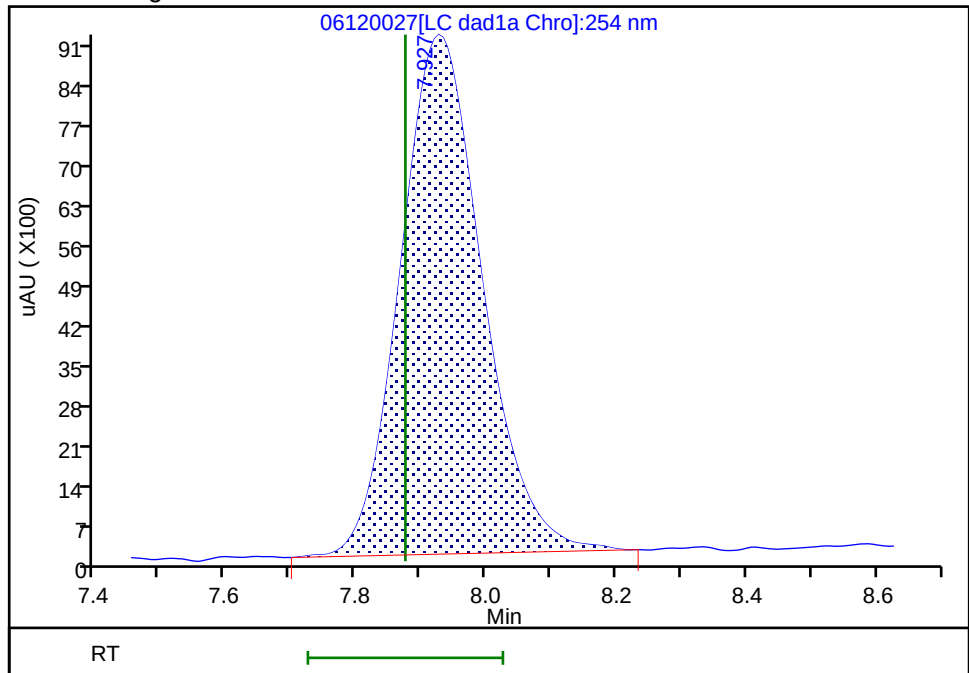
RT: 7.93
Area: 83121
Amount: 0.291171
Amount Units: ug/ml

Processing Integration Results



RT: 7.93
Area: 79904
Amount: 0.279117
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhangji, 16-Jun-2020 17:53:05
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCV 280-498568/35 Calibration Date: 06/13/2020 09:37
 Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16
 GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 05/14/2020 20:56
 Lab File ID: 06120035.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin2		199880		252	250	0.9	15.0
Picric acid	Ave	193810	177068		228	250	-8.6	15.0
RDX	Ave	244360	225848		231	250	-7.6	15.0
Nitrobenzene	Ave	439227	415701		238	251	-5.4	15.0
1,3-Dinitrobenzene	Ave	674189	681968		253	251	1.2	15.0
Nitroglycerin	Ave	126803	126098		2490	2500	-0.6	15.0
2-Nitrotoluene	Ave	272965	249300		228	250	-8.7	15.0
4-Nitrotoluene	Ave	240881	221242		230	251	-8.2	15.0
4-Amino-2,6-dinitrotoluene	Ave	345235	324476		235	250	-6.0	15.0
3-Nitrotoluene	Ave	298327	297982		250	250	-0.1	15.0
2-Amino-4,6-dinitrotoluene	Ave	465211	471398		254	251	1.3	15.0
1,3,5-Trinitrobenzene	Ave	472451	513345		272	251	8.7	15.0
2,6-Dinitrotoluene	Lin2		303084		248	251	-1.3	15.0
2,4-Dinitrotoluene	Ave	640113	651625		256	251	1.8	15.0
Tetryl	Ave	368678	356862		242	251	-3.2	15.0
2,4,6-Trinitrotoluene	Lin1		398231		241	251	-4.0	15.0
PETN	Lin1		140033		2500	2500	-0.2	15.0
1,2-Dinitrobenzene	Lin1		300800		265	250	5.8	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCV 280-498568/35 Calibration Date: 06/13/2020 09:37
 Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16
 GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 05/14/2020 20:56
 Lab File ID: 06120035.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	7.14	7.01	7.31
Picric acid	8.41	8.38	8.68
RDX	9.36	9.24	9.54
Nitrobenzene	12.25	12.13	12.43
1,3-Dinitrobenzene	15.79	15.68	15.98
Nitroglycerin	16.03	15.92	16.22
2-Nitrotoluene	16.72	16.60	16.90
4-Nitrotoluene	17.00	16.89	17.19
4-Amino-2,6-dinitrotoluene	17.44	17.34	17.64
3-Nitrotoluene	17.93	17.82	18.12
2-Amino-4,6-dinitrotoluene	18.38	18.28	18.58
1,3,5-Trinitrobenzene	19.12	19.00	19.30
2,6-Dinitrotoluene	20.04	19.93	20.23
2,4-Dinitrotoluene	20.56	20.45	20.75
Tetryl	23.86	23.76	24.06
2,4,6-Trinitrotoluene	24.88	24.76	25.06
PETN	25.42	25.30	25.60
1,2-Dinitrobenzene	13.26	13.14	13.44

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\06120035.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 13-Jun-2020 09:37:39 ALS Bottle#: 7 Worklist Smp#: 35
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: 280-0092371-035
 Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub6
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 16-Jun-2020 18:53:19 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX1024

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	4.391	4.394	-0.003	107262	0.2500	0.2498	
2 2,4-diamino-6-nitrotoluene	1	4.984	5.008	-0.024	68278	0.2500	0.2639	
6 HMX	1	7.144	7.161	-0.017	49970	0.2500	0.2522	
5 2,4,6-Trinitrophenol	1	8.411	8.528	-0.117	44267	0.2500	0.2284	
8 RDX	1	9.364	9.387	-0.023	56462	0.2500	0.2311	
9 Nitrobenzene	1	12.251	12.281	-0.030	104341	0.2510	0.2376	
\$ 10 1,2-Dinitrobenzene	1	13.257	13.294	-0.037	75200	0.2500	0.2646	
11 3,5-Dinitroaniline	1	15.197	15.241	-0.044	124993	0.2500	0.2520	
12 1,3-Dinitrobenzene	1	15.791	15.827	-0.036	170833	0.2505	0.2534	
13 Nitroglycerin	2	16.031	16.067	-0.036	315246	2.50	2.49	
14 o-Nitrotoluene	1	16.717	16.747	-0.030	62325	0.2500	0.2283	
15 p-Nitrotoluene	1	17.004	17.041	-0.037	55421	0.2505	0.2301	
16 4-Amino-2,6-dinitrotoluene	1	17.444	17.487	-0.043	81200	0.2503	0.2352	
17 m-Nitrotoluene	1	17.931	17.967	-0.036	74570	0.2503	0.2500	
18 2-Amino-4,6-dinitrotoluene	1	18.377	18.427	-0.050	118321	0.2510	0.2543	
19 1,3,5-Trinitrobenzene	1	19.117	19.154	-0.037	128593	0.2505	0.2722	
20 2,6-Dinitrotoluene	1	20.044	20.081	-0.037	76074	0.2510	0.2477	
21 2,4-Dinitrotoluene	1	20.557	20.601	-0.044	163558	0.2510	0.2555	
22 Tetryl	1	23.857	23.908	-0.051	89394	0.2505	0.2425	
23 2,4,6-Trinitrotoluene	1	24.877	24.914	-0.037	99956	0.2510	0.2410	
24 PETN	2	25.417	25.448	-0.031	350082	2.50	2.50	

Reagents:

8330IntermStk_00064 Amount Added: 25.00 Units: uL
 8330_ADDs_00027 Amount Added: 12.50 Units: uL

Report Date: 16-Jun-2020 18:53:19

Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120035.d

Injection Date: 13-Jun-2020 09:37:39

Instrument ID: CHHPLC_G2_LUNA

Operator ID: JZ

Lims ID: CCV

Worklist Smp#: 35

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

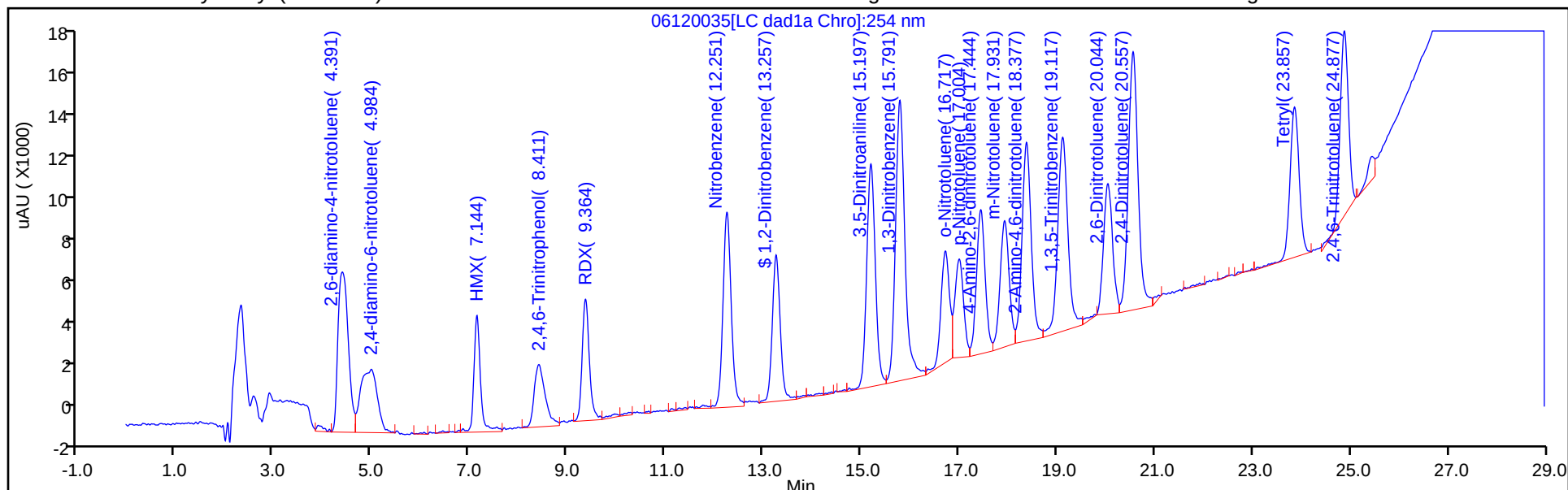
ALS Bottle#: 7

Method: G2_8330_Luna

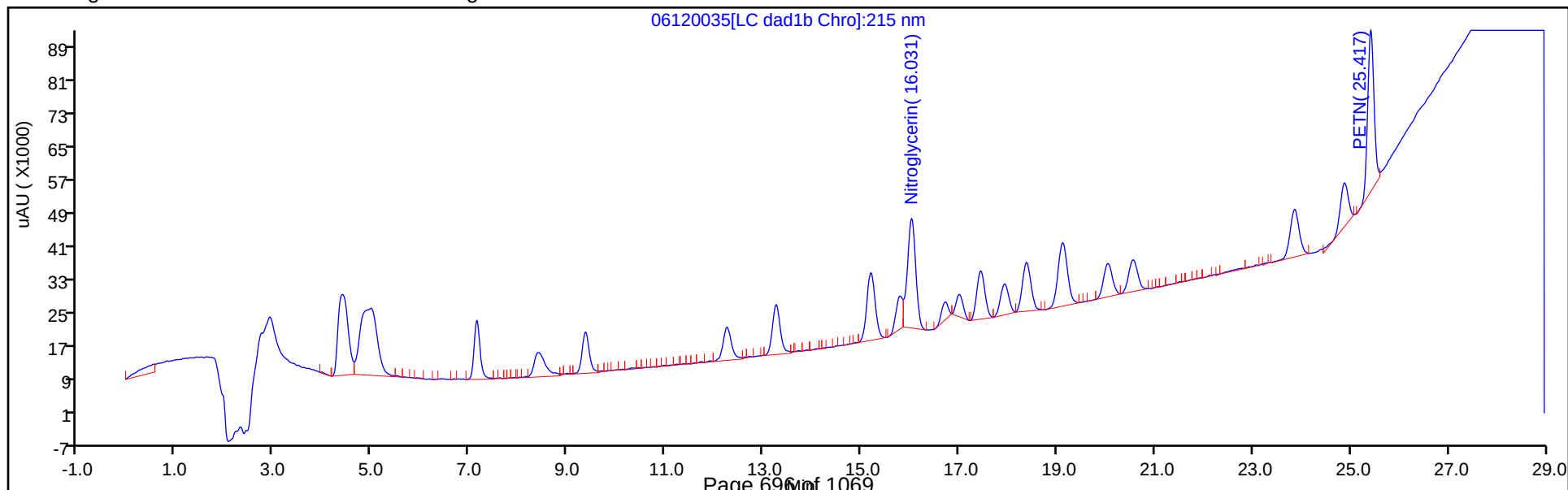
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-498568/36 Calibration Date: 06/13/2020 10:12
Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06
GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 05/15/2020 02:46
Lab File ID: 06120036.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	435816	398937		229	250	-8.5	15.0
DNX	Ave	321206	307257		239	250	-4.3	15.0
MNX	Lin2		288884		296	292	1.3	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-498568/36 Calibration Date: 06/13/2020 10:12
Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06
GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 05/15/2020 02:46
Lab File ID: 06120036.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.52	5.36	5.66
DNX	6.36	6.19	6.49
MNX	7.92	7.73	8.03

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\06120036.D
 Lims ID: CCV DMT
 Client ID:
 Sample Type: CCV
 Inject. Date: 13-Jun-2020 10:12:35 ALS Bottle#: 8 Worklist Smp#: 36
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: CCV DMT
 Misc. Info.: 280-0092371-036
 Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub13
 Method: \\chromfs\Denver\ChromData\G2_LUNA\20200612-92371.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 16-Jun-2020 18:53:18 Calib Date: 15-May-2020 02:11:20
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX1024

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.522	5.509	0.013	99834	0.2503	0.2291	
4 DNX	1	6.362	6.336	0.026	76891	0.2503	0.2394	
7 MNX	1	7.922	7.876	0.046	84282	0.2918	0.2955	

Reagents:

8330 DMT_00006

Amount Added: 12.50

Units: uL

Report Date: 16-Jun-2020 18:53:18

Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200612-92371.b\06120036.d

Injection Date: 13-Jun-2020 10:12:35

Instrument ID: CHHPLC_G2_LUNA

Operator ID: JZ

Lims ID: CCV DMT

Worklist Smp#: 36

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

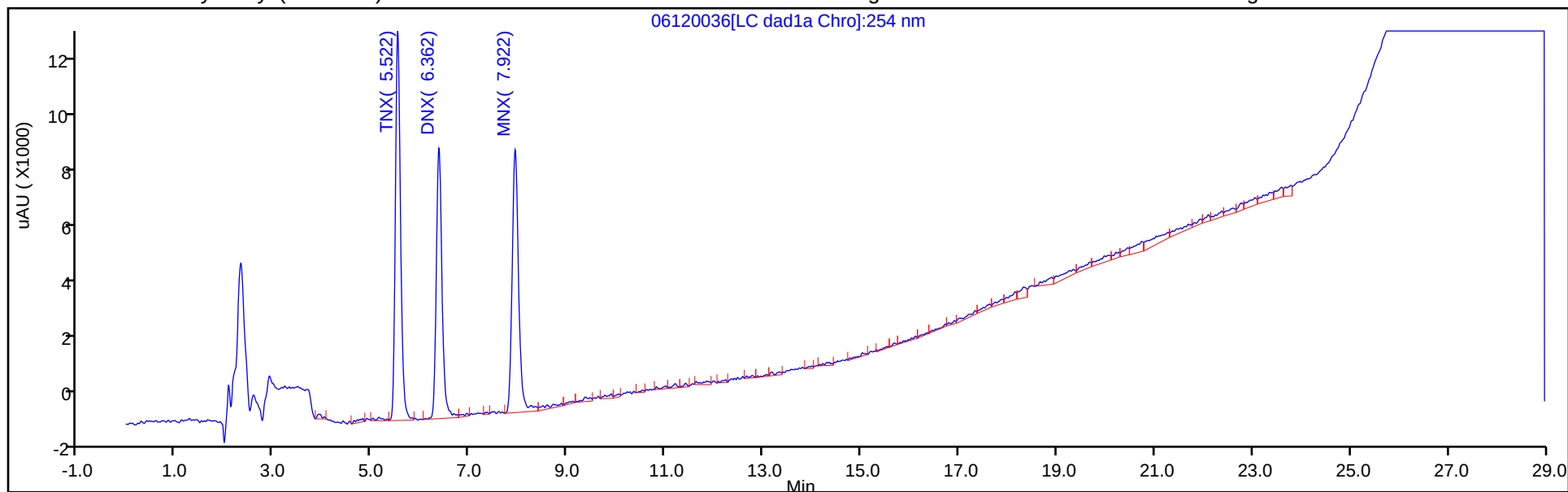
ALS Bottle#: 8

Method: G2_8330_Luna

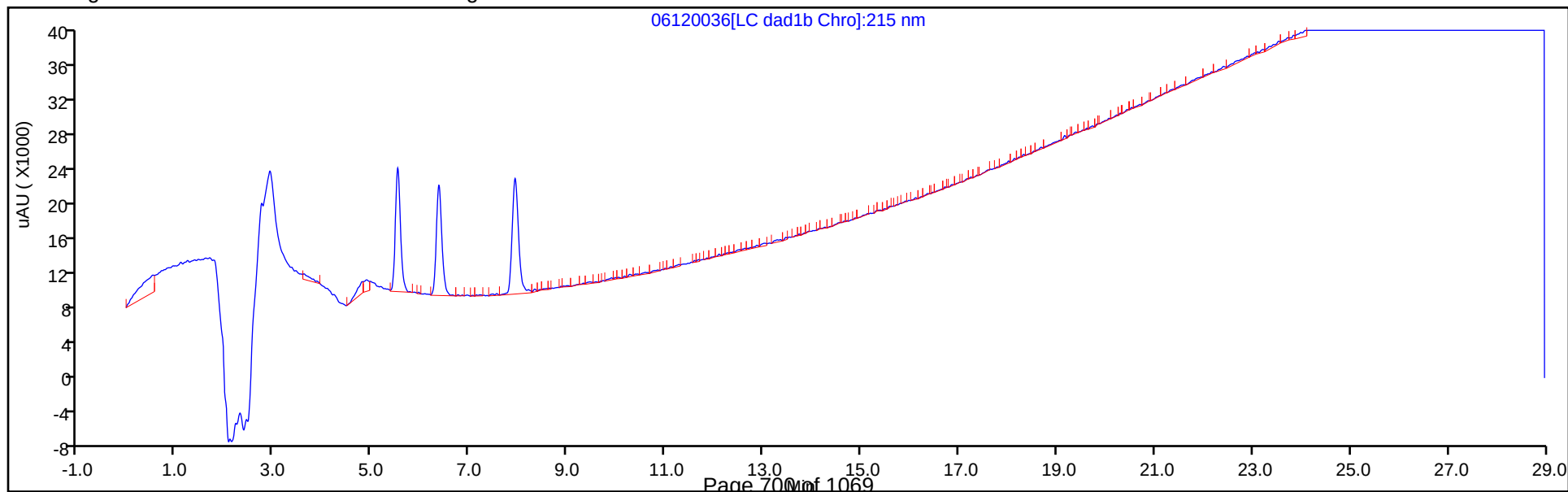
Limit Group: GCSV - 8330

Column: Luna-Phenyl hexyl (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: ICV 280-487658/33 Calibration Date: 03/05/2020 00:03
Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/04/2020 23:40
Lab File ID: 03040033.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	189186		348	400	-13.1	15.0
DNX	Ave	152928	145270		380	400	-5.0	15.0
MNX	Ave	158544	136780		403	467	-13.7	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: ICV 280-487658/33 Calibration Date: 03/05/2020 00:03
Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/04/2020 23:40
Lab File ID: 03040033.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.59	6.49	6.69
DNX	6.91	6.81	7.01
MNX	7.36	7.21	7.51

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040033.D
 Lims ID: ICV DMT
 Client ID:
 Sample Type: ICV
 Inject. Date: 05-Mar-2020 00:03:48 ALS Bottle#: 33 Worklist Smp#: 33
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: ICV DMT
 Misc. Info.: 280-0089779-033
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist:
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 06-Mar-2020 10:25:28 Calib Date: 04-Mar-2020 23:40:46
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX0308

First Level Reviewer: becker

Date: 05-Mar-2020 08:37:53

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.594	6.594	0.000	75750	0.4004	0.3481	M
5 DNX	1	6.914	6.914	0.000	58166	0.4004	0.3803	M
6 MNX	1	7.361	7.361	0.000	63849	0.4668	0.4027	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330_OP_DMT_00006

Amount Added: 40.00

Units: uL

Report Date: 06-Mar-2020 10:25:29

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040033.d

Injection Date: 05-Mar-2020 00:03:48

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: ICV DMT

Worklist Smp#: 33

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

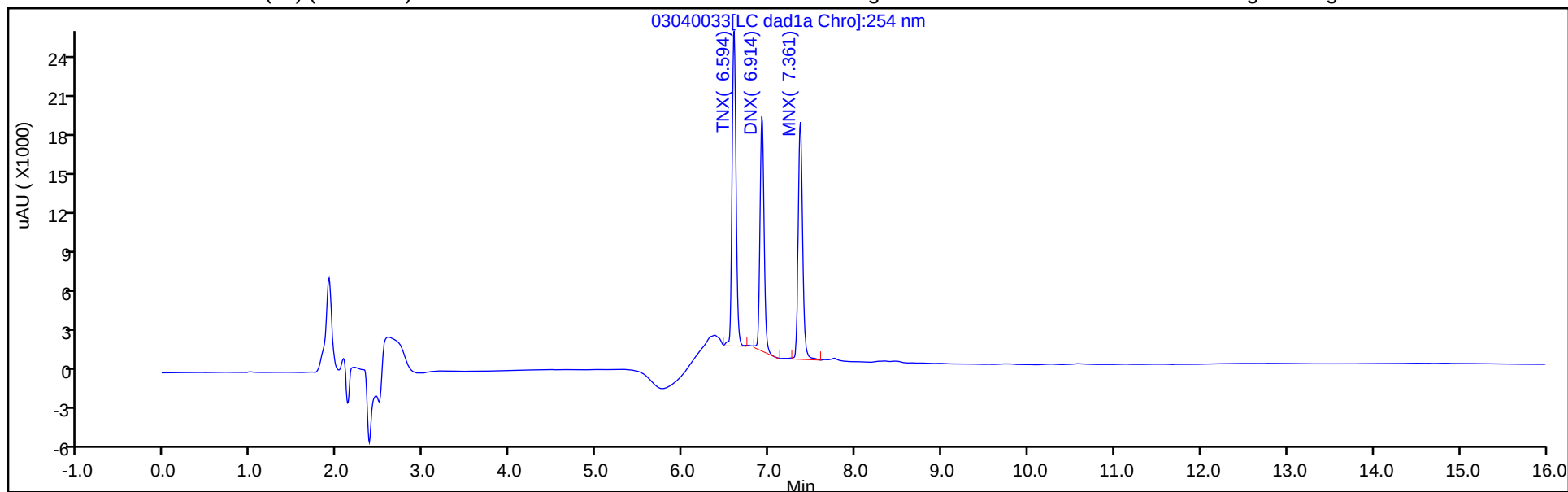
ALS Bottle#: 33

Method: 8330_X3

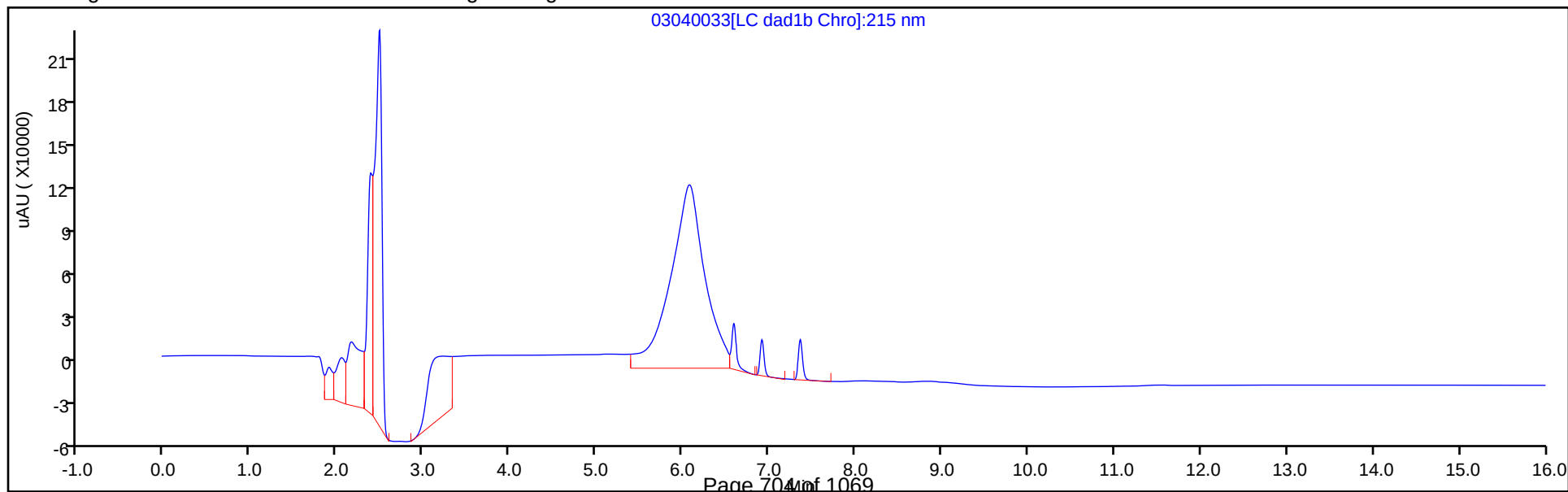
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

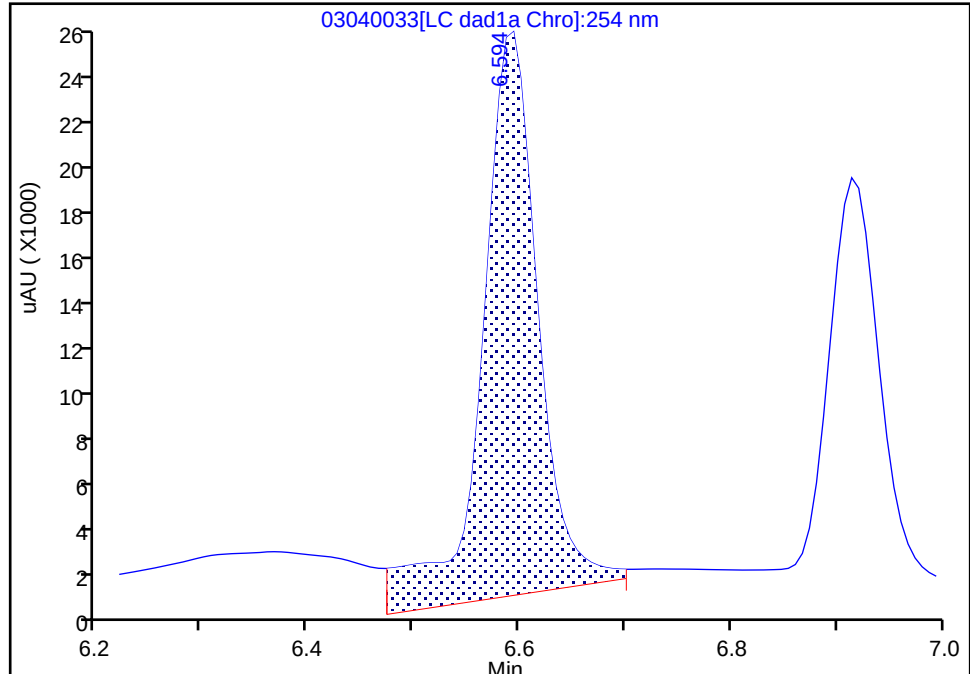
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040033.d
Injection Date: 05-Mar-2020 00:03:48 Instrument ID: CHHPLC_X3
Lims ID: ICV DMT
Client ID:
Operator ID: CB ALS Bottle#: 33 Worklist Smp#: 33
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

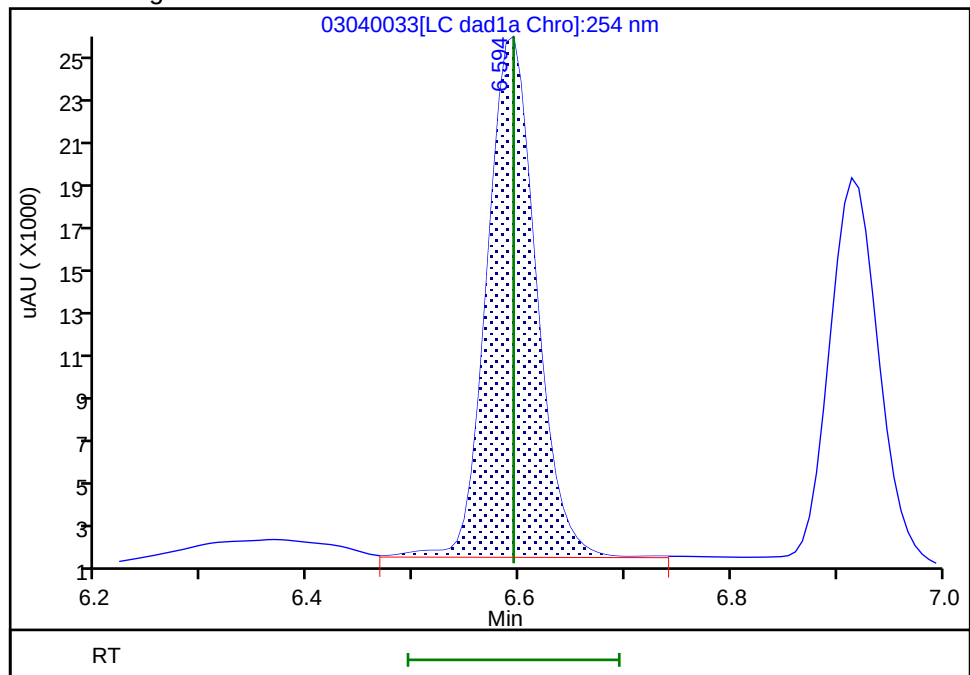
RT: 6.59
Area: 91215
Amount: 0.419170
Amount Units: ug/mL

Processing Integration Results



RT: 6.59
Area: 75750
Amount: 0.348102
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 05-Mar-2020 08:37:32

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040033.d

Injection Date: 05-Mar-2020 00:03:48

Instrument ID: CHHPLC_X3

Lims ID: ICV DMT

Client ID:

Operator ID: CB

ALS Bottle#:

33

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

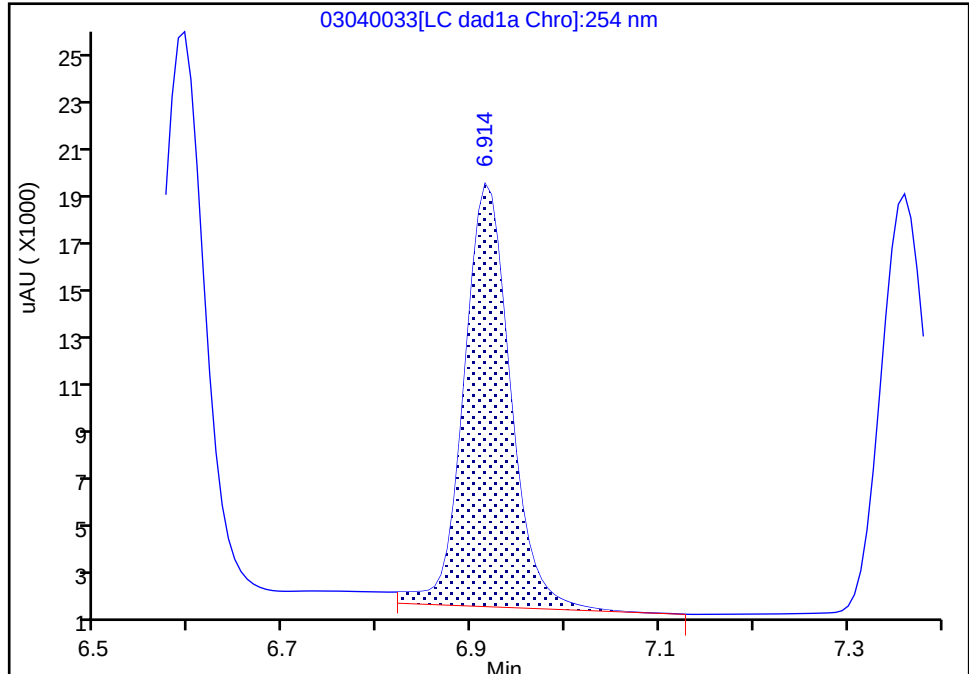
LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

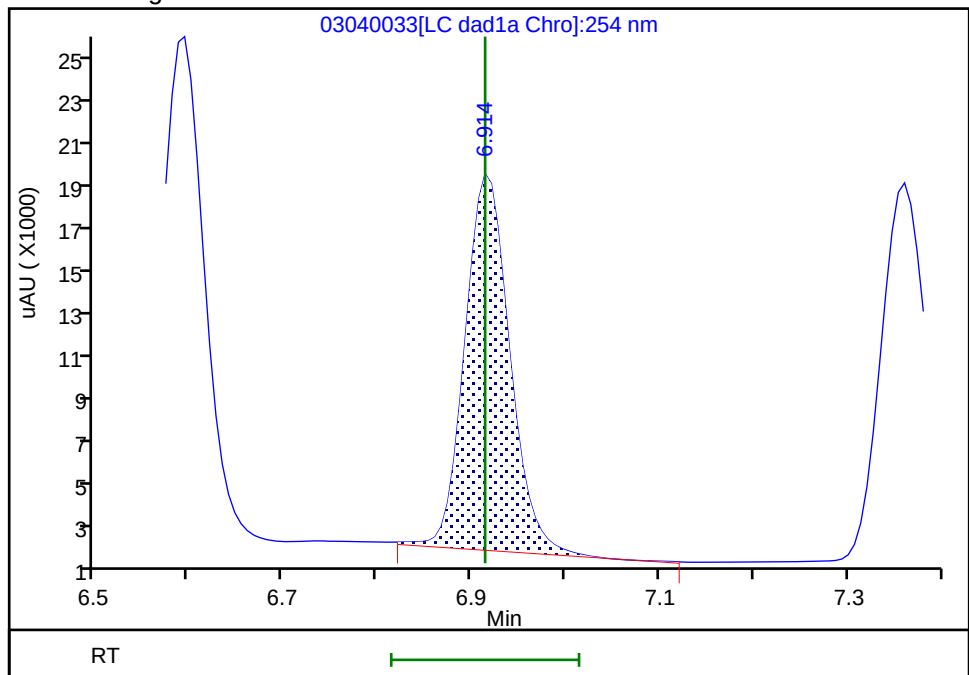
RT: 6.91
Area: 60901
Amount: 0.398232
Amount Units: ug/mL

Processing Integration Results



RT: 6.91
Area: 58166
Amount: 0.380348
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 05-Mar-2020 08:37:39

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: ICV 280-489145/16 Calibration Date: 03/18/2020 15:02
 Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35
 GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/18/2020 14:39
 Lab File ID: 03180016.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	85080		396	400	-1.0	15.0
RDX	Ave	116613	105640		362	400	-9.4	15.0
Picric acid	Ave	85131	85323		401	400	0.2	15.0
1,3,5-Trinitrobenzene	Ave	230309	238740		415	400	3.7	15.0
1,3-Dinitrobenzene	Ave	306686	307370		401	400	0.2	15.0
Nitrobenzene	Ave	200403	202493		404	400	1.0	15.0
Tetryl	Ave	177032	175175		396	400	-1.0	15.0
Nitroglycerin	Ave	68133	67461		3960	4000	-1.0	15.0
2,4,6-Trinitrotoluene	Ave	204031	204823		402	400	0.4	15.0
4-Amino-2,6-dinitrotoluene	Lin2		159183		363	400	-9.1	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	202785		400	400	-0.0	15.0
2,6-Dinitrotoluene	Ave	149452	151720		406	400	1.5	15.0
2,4-Dinitrotoluene	Ave	303584	291863		385	400	-3.9	15.0
2-Nitrotoluene	Ave	135051	128890		382	400	-4.6	15.0
4-Nitrotoluene	Ave	113005	112495		398	400	-0.5	15.0
3-Nitrotoluene	Ave	143029	145235		406	400	1.5	15.0
PETN	Ave	78605	75679		3850	4000	-3.7	15.0
1,2-Dinitrobenzene	Ave	138212	136648		395	400	-1.1	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: ICV 280-489145/16 Calibration Date: 03/18/2020 15:02
 Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35
 GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/18/2020 14:39
 Lab File ID: 03180016.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.69	6.54	6.84
RDX	7.75	7.60	7.90
Picric acid	8.06	7.91	8.21
1,3,5-Trinitrobenzene	8.89	8.74	9.04
1,3-Dinitrobenzene	9.53	9.38	9.68
Nitrobenzene	9.92	9.77	10.07
Tetryl	10.22	10.07	10.37
Nitroglycerin	10.73	10.58	10.88
2,4,6-Trinitrotoluene	11.18	11.08	11.28
4-Amino-2,6-dinitrotoluene	11.34	11.24	11.44
2-Amino-4,6-dinitrotoluene	11.63	11.53	11.73
2,6-Dinitrotoluene	11.79	11.69	11.89
2,4-Dinitrotoluene	11.98	11.88	12.08
2-Nitrotoluene	12.82	12.67	12.97
4-Nitrotoluene	13.26	13.11	13.41
3-Nitrotoluene	13.85	13.70	14.00
PETN	14.94	14.79	15.09
1,2-Dinitrobenzene	8.71	8.56	8.86

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180016.D
 Lims ID: ICV MAIN
 Client ID:
 Sample Type: ICV
 Inject. Date: 18-Mar-2020 15:02:22 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: ICV MAIN
 Misc. Info.: 280-0090150-016
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist:
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 26-Mar-2020 15:45:46 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX0308

First Level Reviewer: becker

Date: 19-Mar-2020 08:47:14

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.685	6.685	0.000	34032	0.4000	0.3959	M
7 RDX	1	7.751	7.751	0.000	42256	0.4000	0.3624	
8 2,4,6-Trinitrophenol	1	8.058	8.058	0.000	34129	0.4000	0.4009	
\$ 9 1,2-Dinitrobenzene	1	8.711	8.711	0.000	54659	0.4000	0.3955	
10 1,3,5-Trinitrobenzene	1	8.885	8.885	0.000	95496	0.4000	0.4146	
11 1,3-Dinitrobenzene	1	9.531	9.531	0.000	122948	0.4000	0.4009	
12 Nitrobenzene	1	9.918	9.918	0.000	80997	0.4000	0.4042	
14 Tetryl	1	10.218	10.218	0.000	70070	0.4000	0.3958	
15 Nitroglycerin	2	10.731	10.731	0.000	269842	4.00	3.96	
16 2,4,6-Trinitrotoluene	1	11.184	11.184	0.000	81929	0.4000	0.4016	
17 4-Amino-2,6-dinitrotoluene	1	11.344	11.344	0.000	63673	0.4000	0.3635	
18 2-Amino-4,6-dinitrotoluene	1	11.631	11.631	0.000	81114	0.4000	0.3999	
19 2,6-Dinitrotoluene	1	11.791	11.791	0.000	60688	0.4000	0.4061	
20 2,4-Dinitrotoluene	1	11.984	11.984	0.000	116745	0.4000	0.3846	
21 o-Nitrotoluene	1	12.824	12.824	0.000	51556	0.4000	0.3818	
22 p-Nitrotoluene	1	13.264	13.264	0.000	44998	0.4000	0.3982	
23 m-Nitrotoluene	1	13.851	13.851	0.000	58094	0.4000	0.4062	
24 PETN	2	14.938	14.938	0.000	302716	4.00	3.85	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330Surrogate_00110

Amount Added: 40.00

Units: uL

8330 LCS_00095

Amount Added: 40.00

Units: uL

Report Date: 26-Mar-2020 15:45:47

Chrom Revision: 2.3 11-Mar-2020 18:53:20

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180016.d

Injection Date: 18-Mar-2020 15:02:22

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: ICV MAIN

Worklist Smp#: 16

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

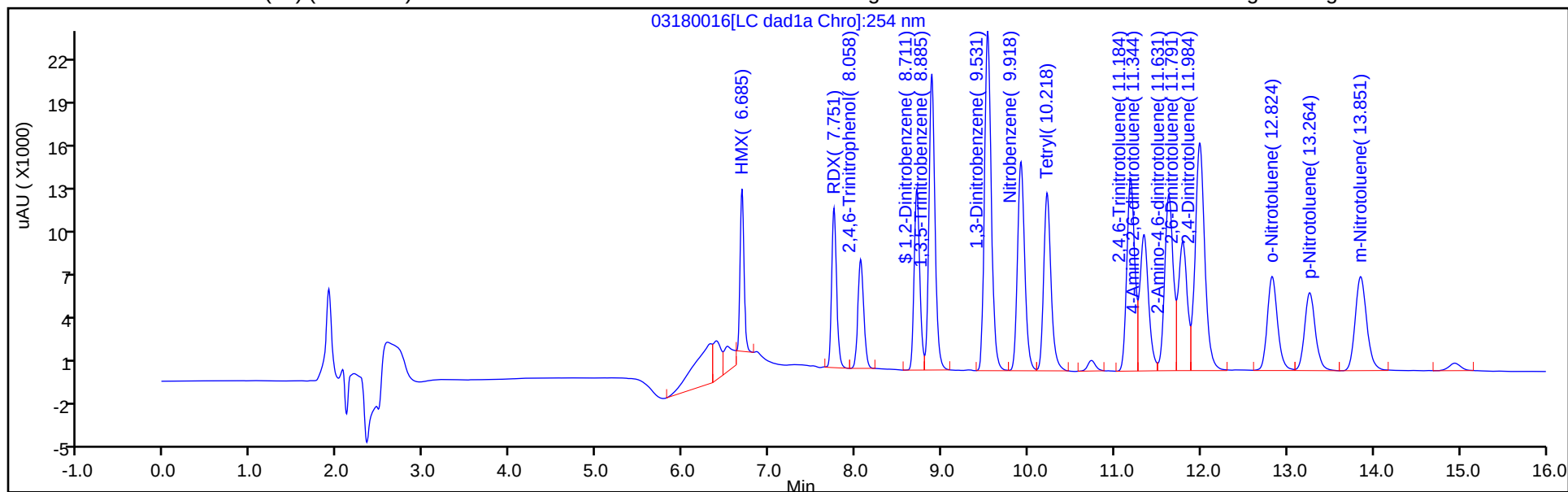
ALS Bottle#: 16

Method: 8330_X3

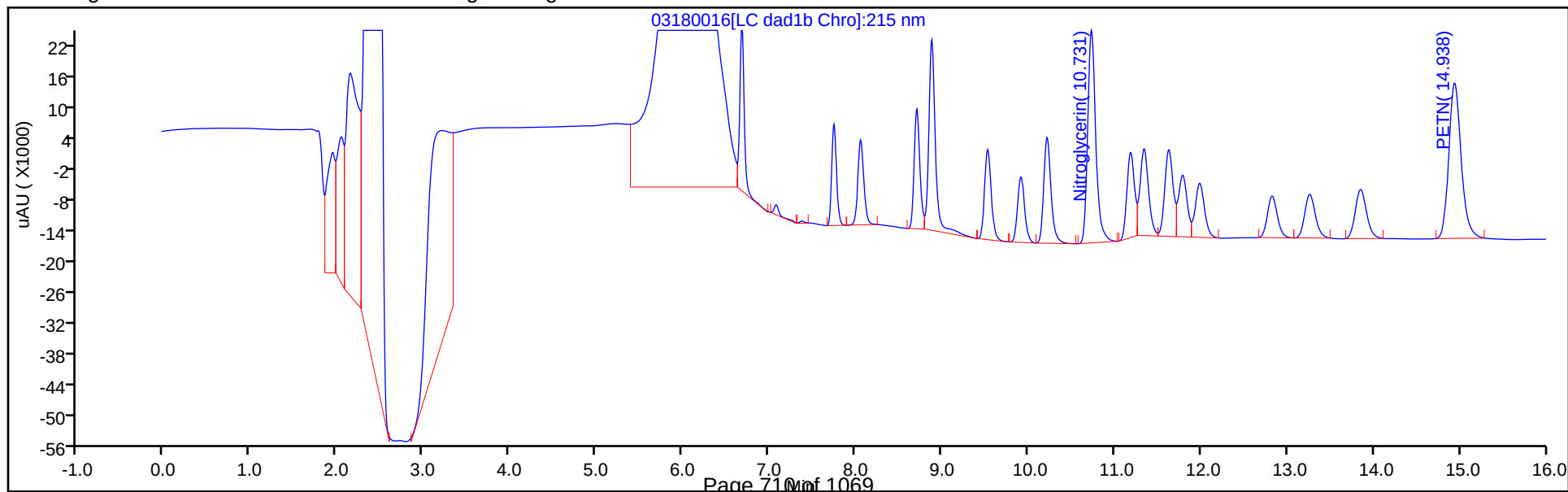
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

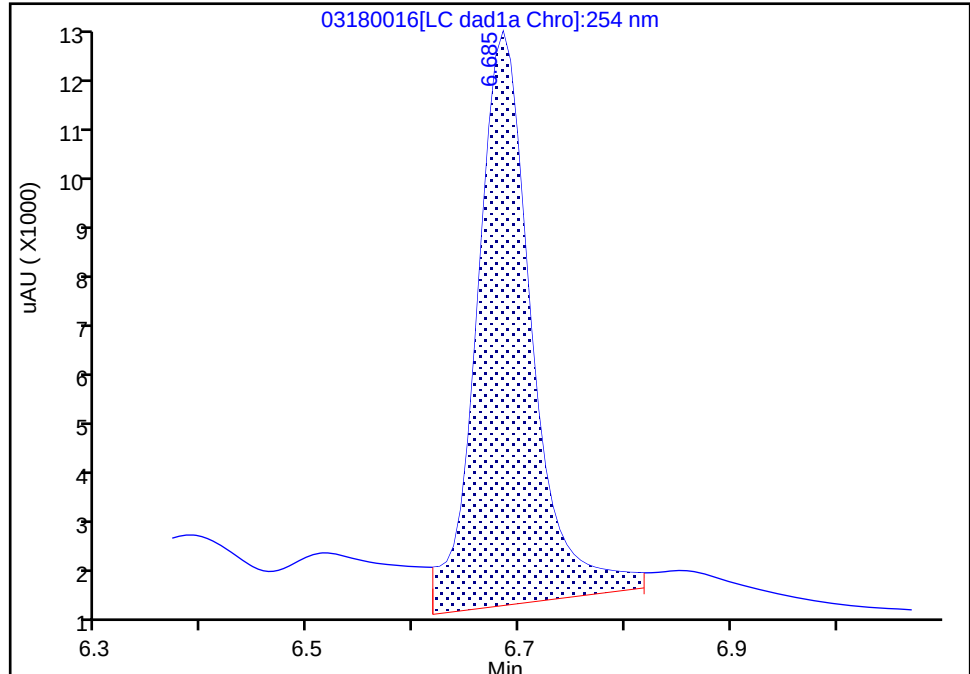
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180016.d
Injection Date: 18-Mar-2020 15:02:22 Instrument ID: CHHPLC_X3
Lims ID: ICV MAIN
Client ID:
Operator ID: CB ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

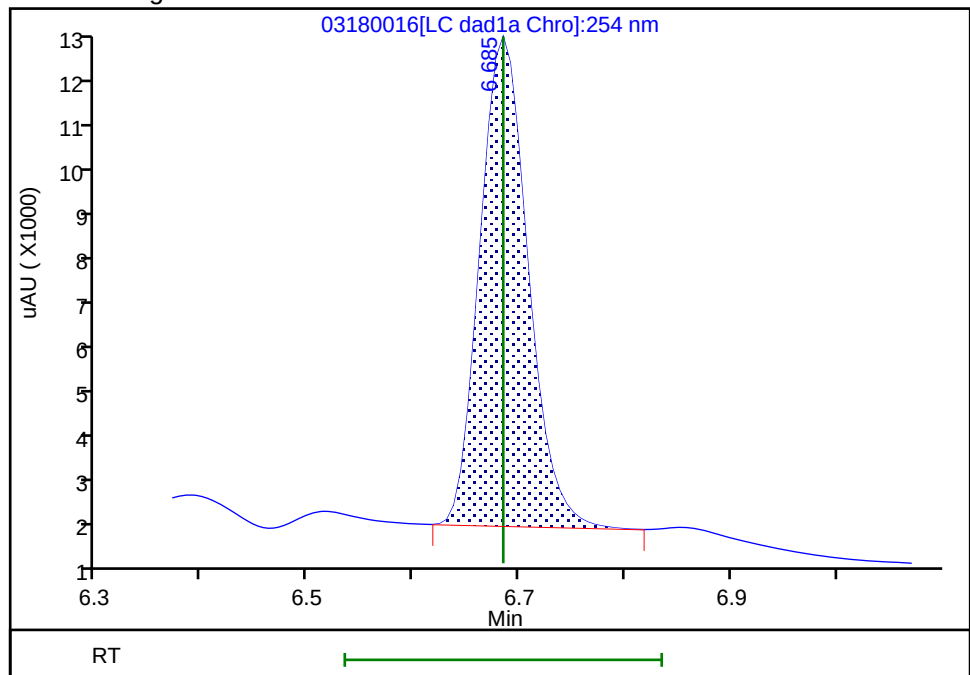
RT: 6.68
Area: 41406
Amount: 0.494354
Amount Units: ug/mL

Processing Integration Results



RT: 6.68
Area: 34032
Amount: 0.395895
Amount Units: ug/mL

Manual Integration Results



Reviewer: becker, 19-Mar-2020 08:47:09
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCV 280-498360/16 Calibration Date: 06/11/2020 18:25
 Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35
 GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/18/2020 14:39
 Lab File ID: 06110016.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	89636		261	250	4.3	15.0
RDX	Ave	116613	112508		241	250	-3.5	15.0
Picric acid	Ave	85131	88508		260	250	4.0	15.0
1,3,5-Trinitrobenzene	Ave	230309	239924		261	251	4.2	15.0
1,3-Dinitrobenzene	Ave	306686	324196		265	251	5.7	15.0
Nitrobenzene	Ave	200403	207486		260	251	3.5	15.0
Tetryl	Ave	177032	183401		260	251	3.6	15.0
Nitroglycerin	Ave	68133	74447		2730	2500	9.3	15.0
2,4,6-Trinitrotoluene	Ave	204031	217434		267	251	6.6	15.0
4-Amino-2,6-dinitrotoluene	Lin2		170314		245	250	-1.9	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	214709		266	251	5.9	15.0
2,6-Dinitrotoluene	Ave	149452	157964		265	251	5.7	15.0
2,4-Dinitrotoluene	Ave	303584	319865		264	251	5.4	15.0
2-Nitrotoluene	Ave	135051	135492		251	250	0.3	15.0
4-Nitrotoluene	Ave	113005	116551		258	251	3.1	15.0
3-Nitrotoluene	Ave	143029	148056		259	250	3.5	15.0
PETN	Ave	78605	84888		2700	2500	8.0	15.0
1,2-Dinitrobenzene	Ave	138212	145228		263	250	5.1	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCV 280-498360/16 Calibration Date: 06/11/2020 18:25
 Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35
 GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/18/2020 14:39
 Lab File ID: 06110016.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.72	6.55	6.85
RDX	7.80	7.63	7.93
Picric acid	8.10	7.92	8.22
1,3,5-Trinitrobenzene	8.94	8.77	9.07
1,3-Dinitrobenzene	9.60	9.42	9.72
Nitrobenzene	9.97	9.80	10.10
Tetryl	10.28	10.11	10.41
Nitroglycerin	10.80	10.61	10.91
2,4,6-Trinitrotoluene	11.26	11.12	11.32
4-Amino-2,6-dinitrotoluene	11.42	11.28	11.48
2-Amino-4,6-dinitrotoluene	11.71	11.56	11.76
2,6-Dinitrotoluene	11.85	11.71	11.91
2,4-Dinitrotoluene	12.05	11.91	12.11
2-Nitrotoluene	12.88	12.69	12.99
4-Nitrotoluene	13.32	13.13	13.43
3-Nitrotoluene	13.90	13.71	14.01
PETN	14.97	14.82	15.12
1,2-Dinitrobenzene	8.76	8.59	8.89

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110016.D
 Lims ID: CCV INT
 Client ID:
 Sample Type: CCV
 Inject. Date: 11-Jun-2020 18:25:15 ALS Bottle#: 7 Worklist Smp#: 16
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: CCV INT
 Misc. Info.: 280-0092324-016
 Operator ID: JZ Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 12-Jun-2020 12:39:55 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX1034

First Level Reviewer: zhangji

Date: 11-Jun-2020 18:51:36

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.715	6.696	0.019	22409	0.2500	0.2607	M
7 RDX	1	7.802	7.776	0.026	28127	0.2500	0.2412	
8 2,4,6-Trinitrophenol	1	8.102	8.069	0.033	22127	0.2500	0.2599	
\$ 9 1,2-Dinitrobenzene	1	8.762	8.743	0.019	36307	0.2500	0.2627	
10 1,3,5-Trinitrobenzene	1	8.942	8.916	0.026	60101	0.2505	0.2610	
11 1,3-Dinitrobenzene	1	9.595	9.569	0.026	81211	0.2505	0.2648	
12 Nitrobenzene	1	9.969	9.949	0.020	52079	0.2510	0.2599	
14 Tetryl	1	10.282	10.256	0.026	45942	0.2505	0.2595	
15 Nitroglycerin	2	10.795	10.762	0.033	186117	2.50	2.73	M
16 2,4,6-Trinitrotoluene	1	11.255	11.222	0.033	54576	0.2510	0.2675	
17 4-Amino-2,6-dinitrotoluene	1	11.415	11.376	0.039	42621	0.2503	0.2455	
18 2-Amino-4,6-dinitrotoluene	1	11.709	11.662	0.047	53892	0.2510	0.2657	
19 2,6-Dinitrotoluene	1	11.849	11.809	0.040	39649	0.2510	0.2653	
20 2,4-Dinitrotoluene	1	12.049	12.009	0.040	80286	0.2510	0.2645	
21 o-Nitrotoluene	1	12.875	12.842	0.033	33873	0.2500	0.2508	
22 p-Nitrotoluene	1	13.315	13.276	0.039	29196	0.2505	0.2584	
23 m-Nitrotoluene	1	13.902	13.862	0.040	37051	0.2503	0.2590	
24 PETN	2	14.969	14.969	0.000	212219	2.50	2.70	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 25.00

Units: uL

Report Date: 12-Jun-2020 12:39:56

Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110016.d

Injection Date: 11-Jun-2020 18:25:15

Instrument ID: CHHPLC_X3

Operator ID: JZ

Lims ID: CCV INT

Worklist Smp#: 16

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

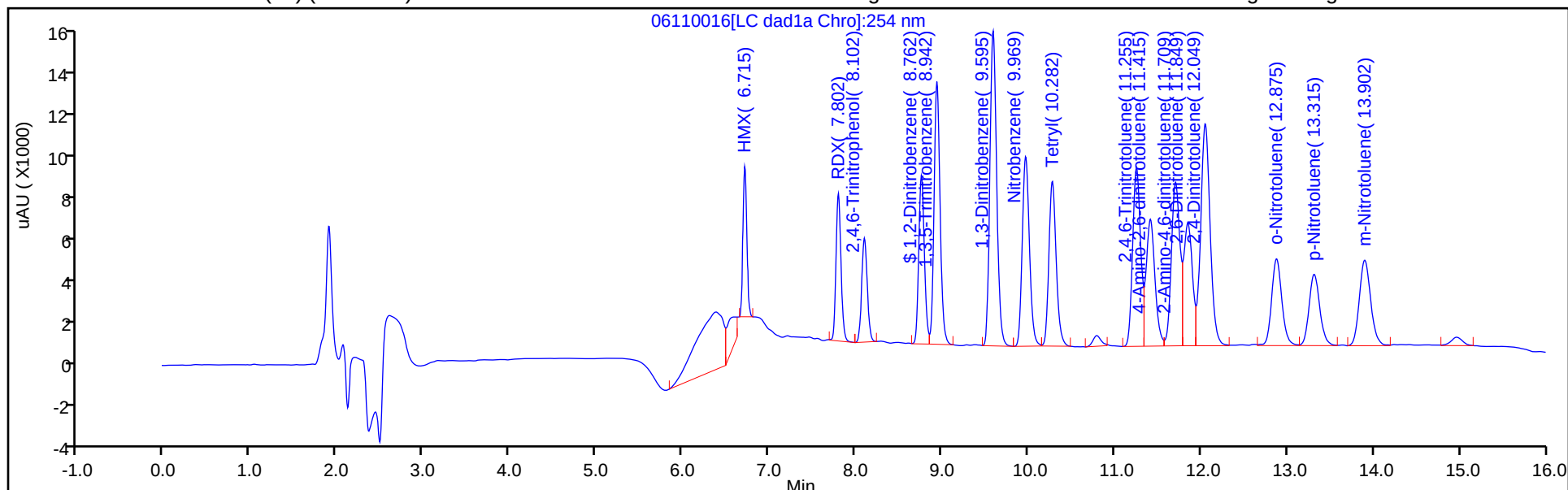
ALS Bottle#: 7

Method: 8330_X3

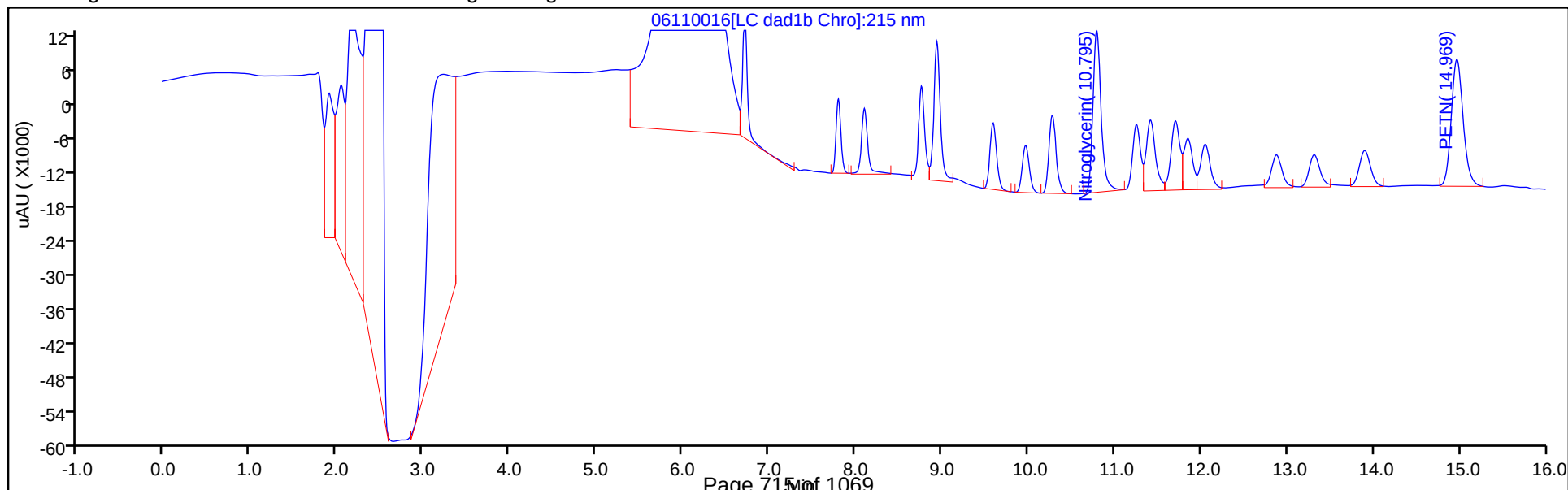
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

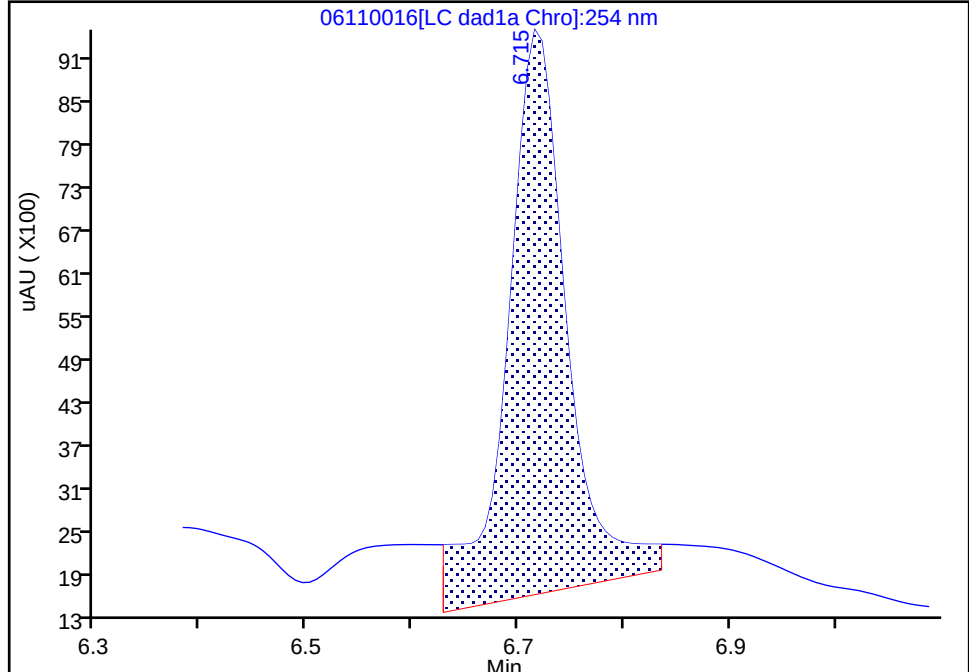
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Injection Date: 11-Jun-2020 18:25:15 Instrument ID: CHHPLC_X3
Lims ID: CCV INT
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

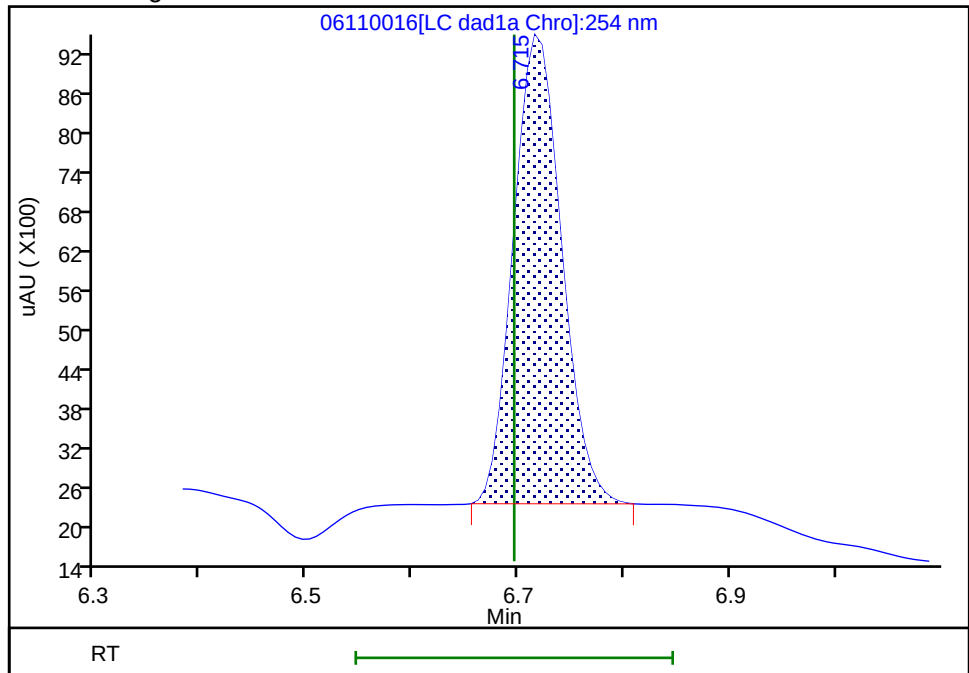
RT: 6.72
Area: 30506
Amount: 0.354877
Amount Units: ug/mL

Processing Integration Results



RT: 6.72
Area: 22409
Amount: 0.260684
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 11-Jun-2020 18:51:24
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

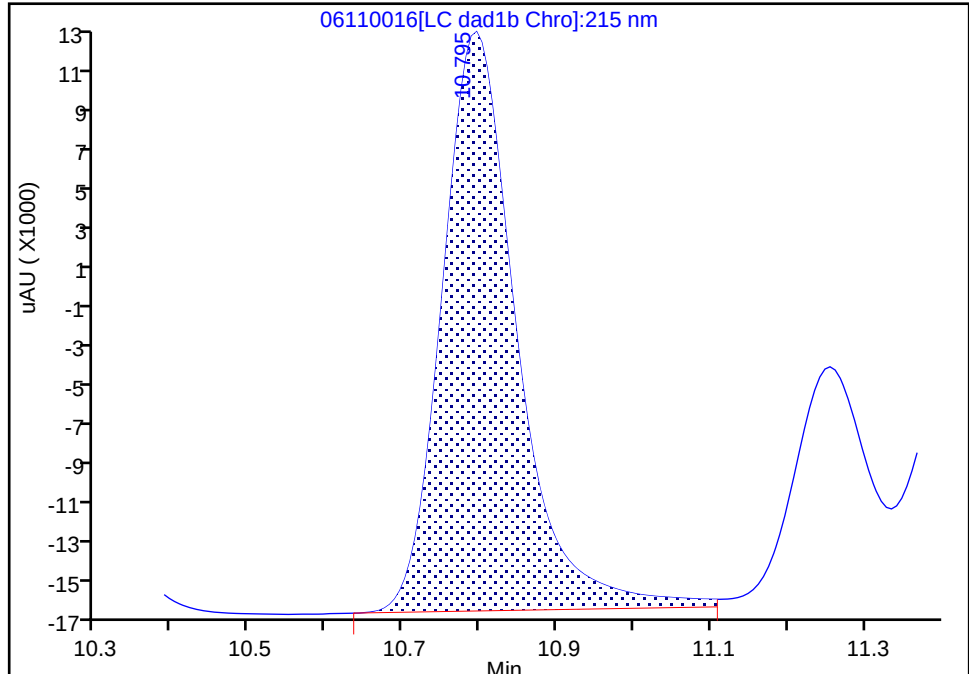
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110016.d
Injection Date: 11-Jun-2020 18:25:15 Instrument ID: CHHPLC_X3
Lims ID: CCV INT
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: Detector LC DAD1C, 215 nm

15 Nitroglycerin, CAS: 55-63-0

Signal: 1

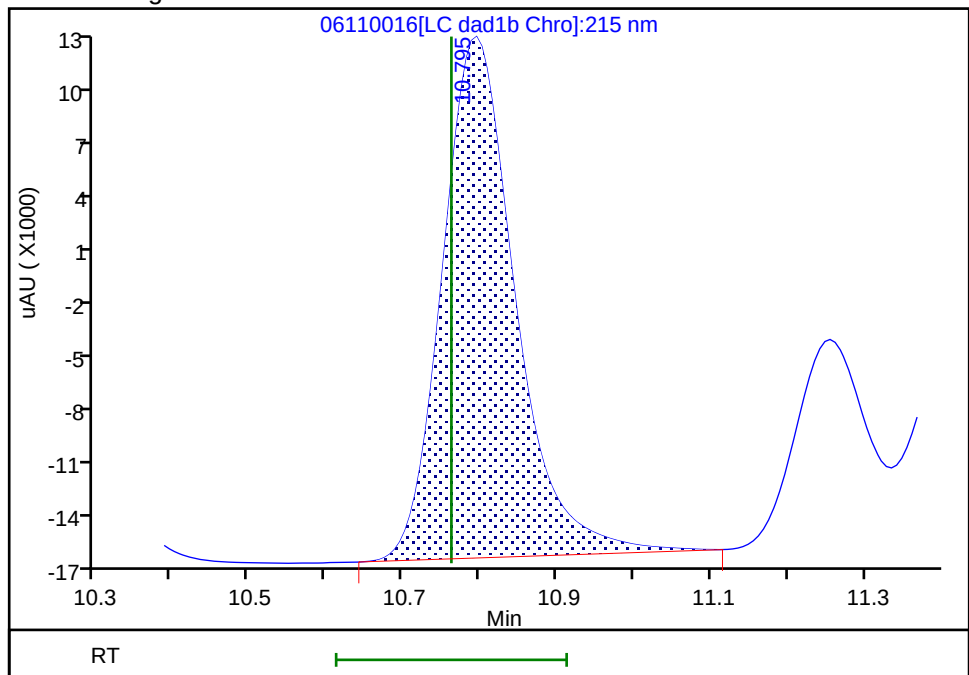
RT: 10.80
Area: 191160
Amount: 2.805670
Amount Units: ug/mL

Processing Integration Results



RT: 10.80
Area: 186117
Amount: 2.731653
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 11-Jun-2020 18:51:32
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-498360/17 Calibration Date: 06/11/2020 18:48
Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/04/2020 23:40
Lab File ID: 06110017.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	205283		236	250	-5.7	15.0
DNX	Ave	152928	151393		248	250	-1.0	15.0
MNX	Ave	158544	138989		256	292	-12.3	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-498360/17 Calibration Date: 06/11/2020 18:48
Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/04/2020 23:40
Lab File ID: 06110017.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.62	6.53	6.73
DNX	6.95	6.85	7.05
MNX	7.39	7.26	7.56

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110017.D
 Lims ID: CCV DMT
 Client ID:
 Sample Type: CCV
 Inject. Date: 11-Jun-2020 18:48:28 ALS Bottle#: 9 Worklist Smp#: 17
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: CCV DMT
 Misc. Info.: 280-0092324-017
 Operator ID: JZ Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub17
 Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 12-Jun-2020 12:39:56 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX1034

First Level Reviewer: zhangji

Date: 12-Jun-2020 11:34:04

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.619	6.627	-0.008	51372	0.2503	0.2361	M
5 DNX	1	6.946	6.954	-0.008	37886	0.2503	0.2477	M
6 MNX	1	7.393	7.407	-0.014	40550	0.2918	0.2558	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00006

Amount Added: 12.50

Units: uL

Report Date: 12-Jun-2020 12:39:56

Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110017.d

Injection Date: 11-Jun-2020 18:48:28

Instrument ID: CHHPLC_X3

Operator ID: JZ

Lims ID: CCV DMT

Worklist Smp#: 17

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

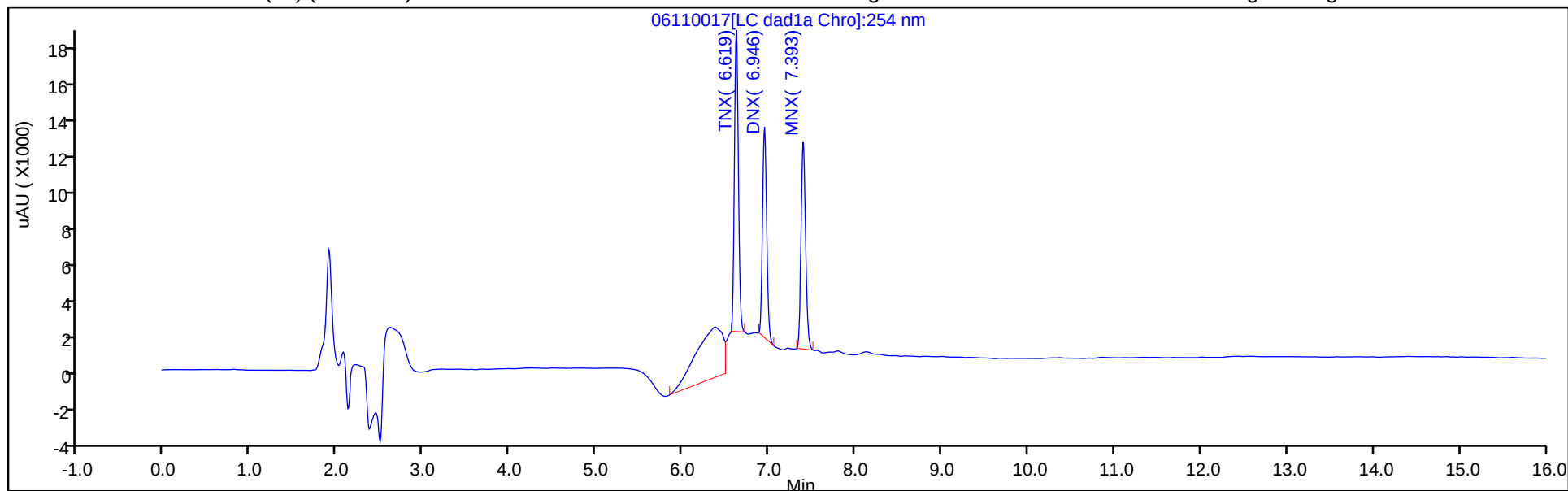
ALS Bottle#: 9

Method: 8330_X3

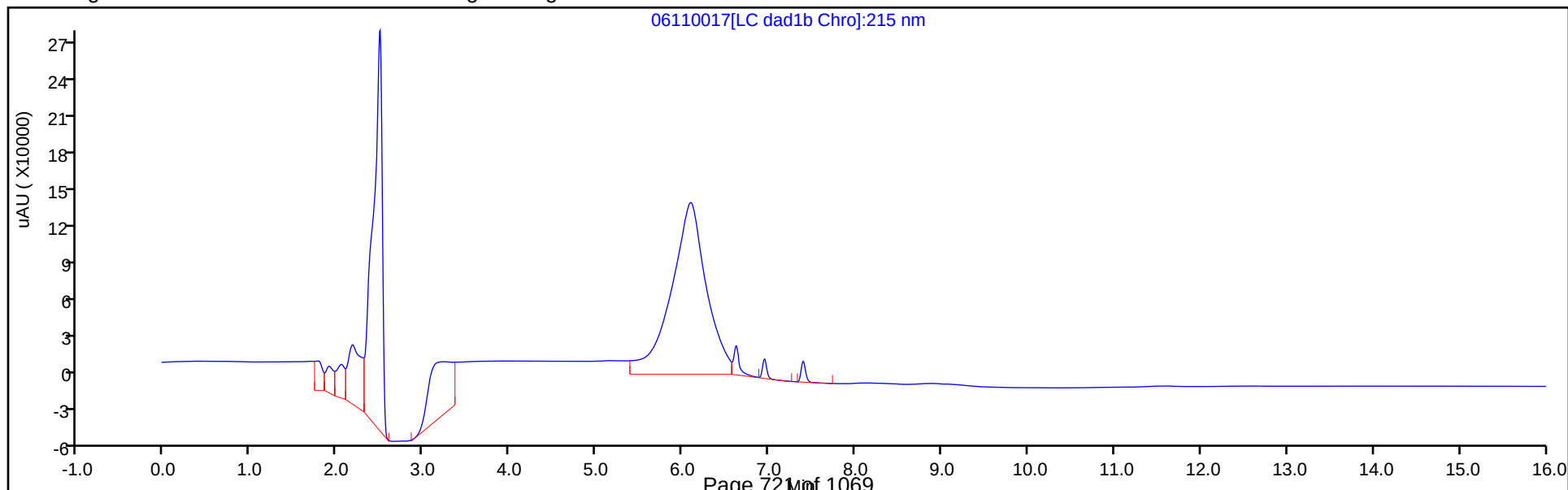
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

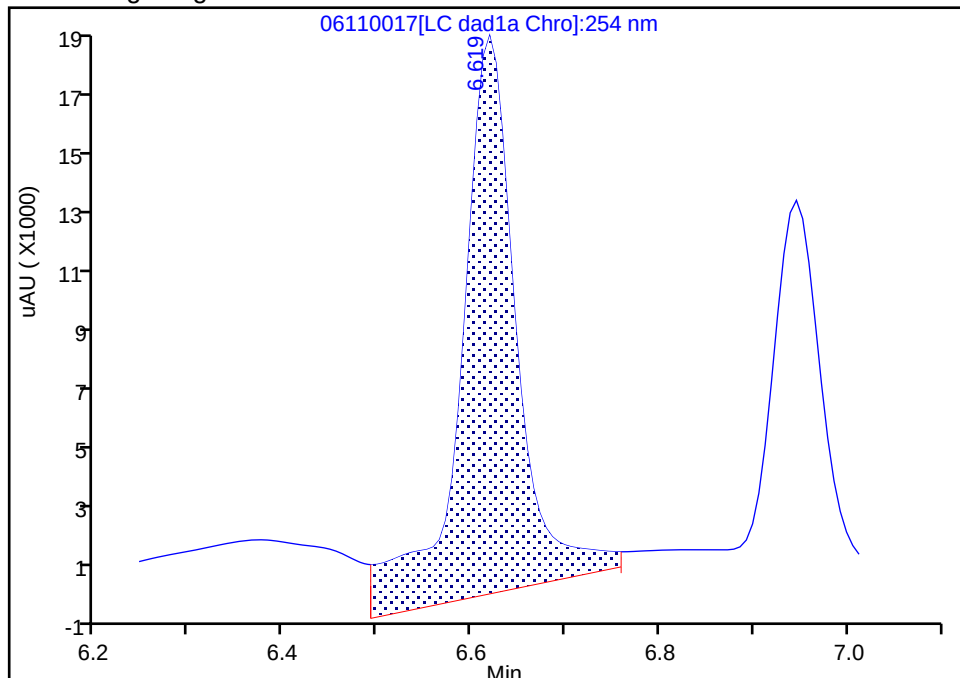
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110017.d
Injection Date: 11-Jun-2020 18:48:28 Instrument ID: CHHPLC_X3
Lims ID: CCV DMT
Client ID:
Operator ID: JZ ALS Bottle#: 9 Worklist Smp#: 17
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

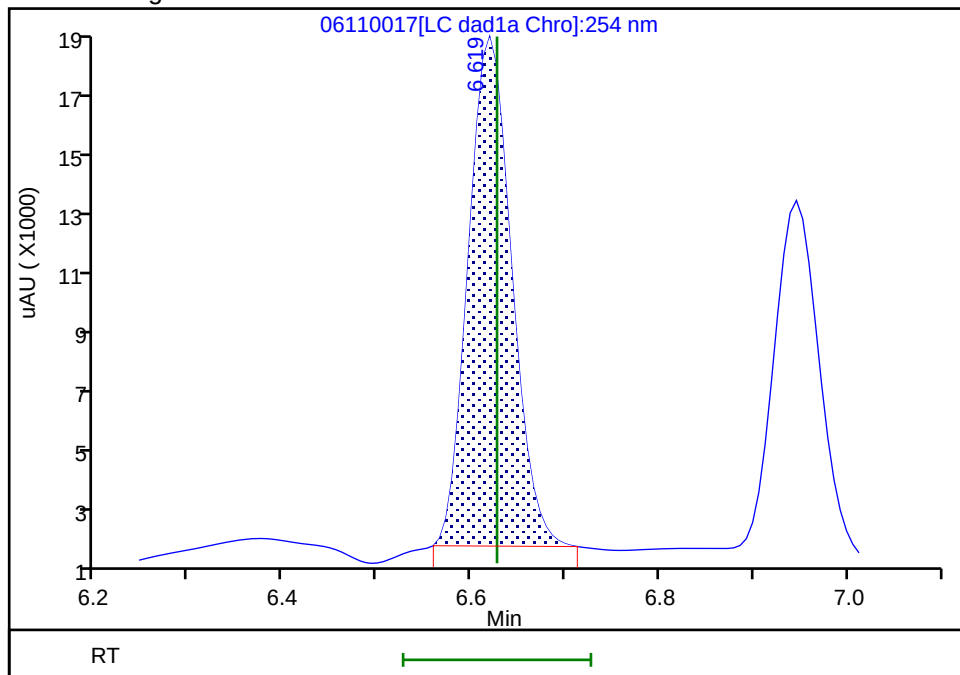
RT: 6.62
Area: 72684
Amount: 0.334012
Amount Units: ug/mL

Processing Integration Results



RT: 6.62
Area: 51372
Amount: 0.236075
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:33:49
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

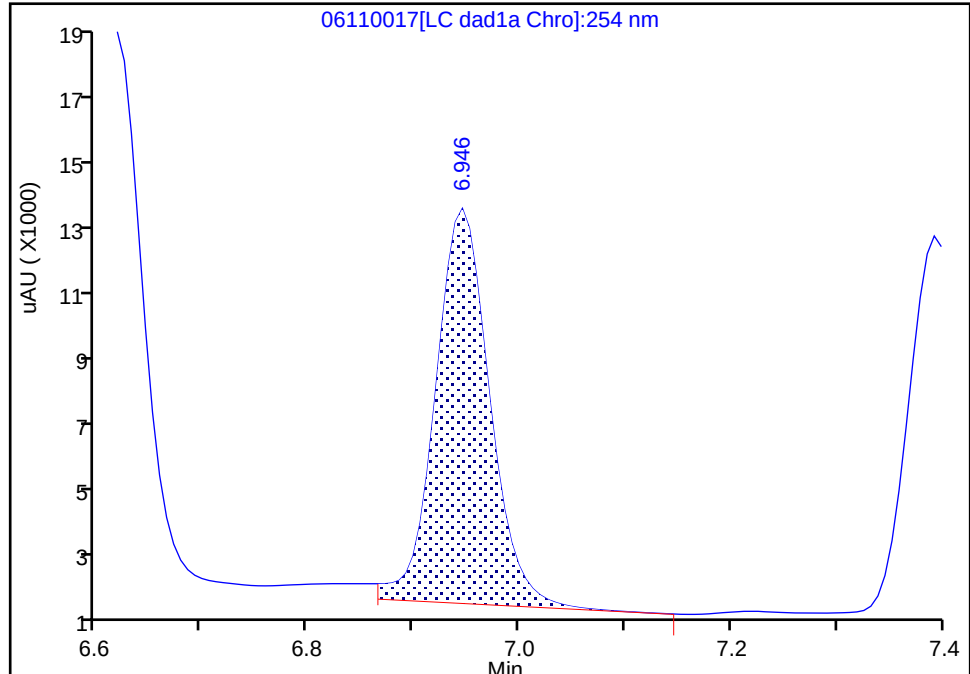
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110017.d
Injection Date: 11-Jun-2020 18:48:28 Instrument ID: CHHPLC_X3
Lims ID: CCV DMT
Client ID:
Operator ID: JZ ALS Bottle#: 9 Worklist Smp#: 17
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

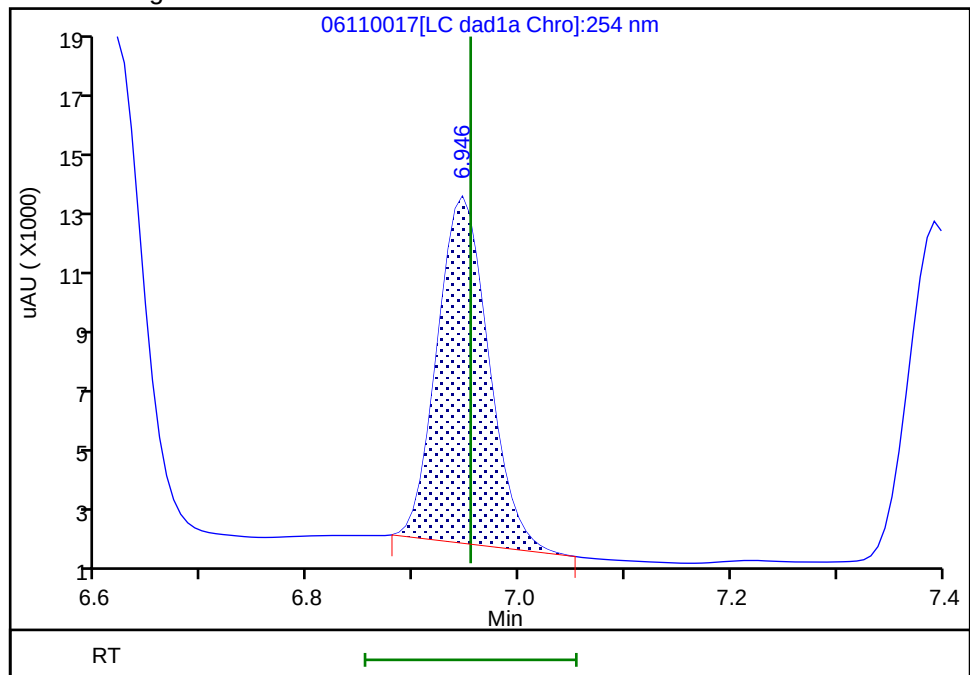
RT: 6.95
Area: 41278
Amount: 0.269917
Amount Units: ug/mL

Processing Integration Results



RT: 6.95
Area: 37886
Amount: 0.247737
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:33:53
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

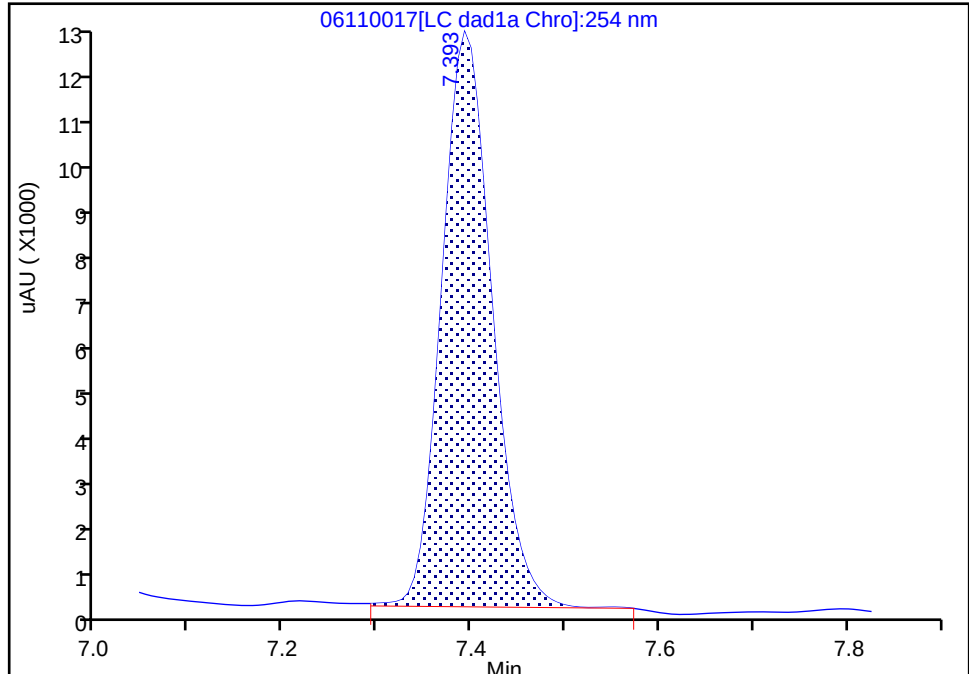
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110017.d
Injection Date: 11-Jun-2020 18:48:28 Instrument ID: CHHPLC_X3
Lims ID: CCV DMT
Client ID:
Operator ID: JZ ALS Bottle#: 9 Worklist Smp#: 17
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

6 MNX, CAS: 5755-27-1

Signal: 1

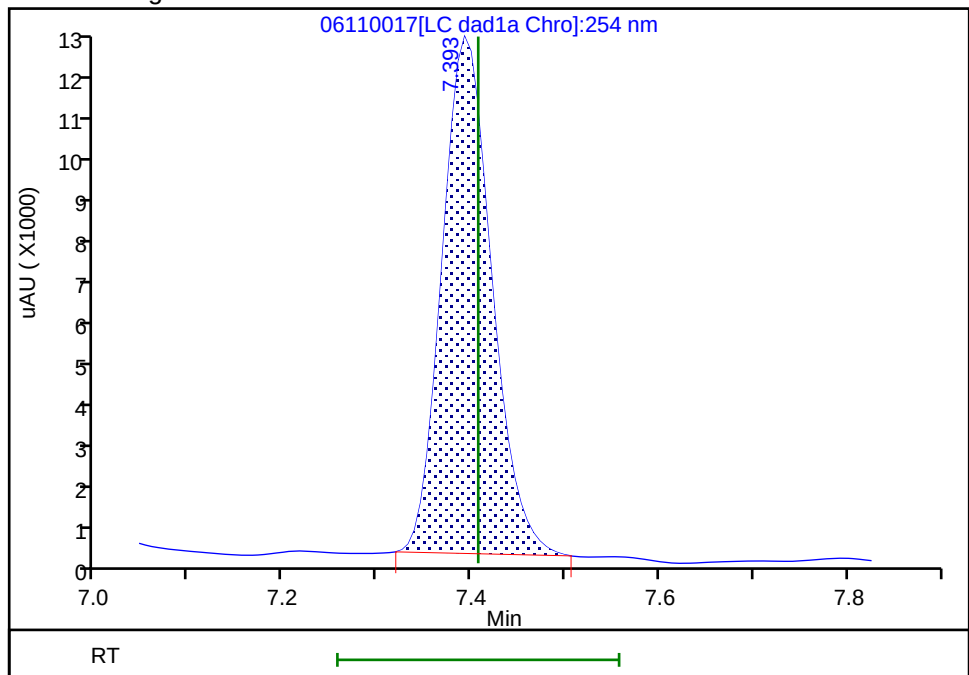
RT: 7.39
Area: 41342
Amount: 0.260760
Amount Units: ug/mL

Processing Integration Results



RT: 7.39
Area: 40550
Amount: 0.255765
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:34:01
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCV 280-498360/32 Calibration Date: 06/12/2020 00:33
 Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35
 GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/18/2020 14:39
 Lab File ID: 06110032.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	89544		260	250	4.2	15.0
RDX	Ave	116613	111180		238	250	-4.7	15.0
Picric acid	Ave	85131	88212		259	250	3.6	15.0
1,3,5-Trinitrobenzene	Ave	230309	240379		261	251	4.4	15.0
1,3-Dinitrobenzene	Ave	306686	322715		264	251	5.2	15.0
Nitrobenzene	Ave	200403	201590		252	251	0.6	15.0
Tetryl	Ave	177032	181481		257	251	2.5	15.0
Nitroglycerin	Ave	68133	73021		2680	2500	7.2	15.0
2,4,6-Trinitrotoluene	Ave	204031	216335		266	251	6.0	15.0
4-Amino-2,6-dinitrotoluene	Lin2		171081		247	250	-1.5	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	208861		258	251	3.0	15.0
2,6-Dinitrotoluene	Ave	149452	163789		275	251	9.6	15.0
2,4-Dinitrotoluene	Ave	303584	323753		268	251	6.6	15.0
2-Nitrotoluene	Ave	135051	135284		250	250	0.2	15.0
4-Nitrotoluene	Ave	113005	118343		262	251	4.7	15.0
3-Nitrotoluene	Ave	143029	149091		261	250	4.2	15.0
PETN	Ave	78605	84345		2680	2500	7.3	15.0
1,2-Dinitrobenzene	Ave	138212	144720		262	250	4.7	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCV 280-498360/32 Calibration Date: 06/12/2020 00:33
 Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35
 GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/18/2020 14:39
 Lab File ID: 06110032.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.71	6.55	6.85
RDX	7.79	7.63	7.93
Picric acid	8.10	7.92	8.22
1,3,5-Trinitrobenzene	8.94	8.77	9.07
1,3-Dinitrobenzene	9.60	9.42	9.72
Nitrobenzene	9.97	9.80	10.10
Tetryl	10.28	10.11	10.41
Nitroglycerin	10.80	10.61	10.91
2,4,6-Trinitrotoluene	11.26	11.12	11.32
4-Amino-2,6-dinitrotoluene	11.43	11.28	11.48
2-Amino-4,6-dinitrotoluene	11.72	11.56	11.76
2,6-Dinitrotoluene	11.86	11.71	11.91
2,4-Dinitrotoluene	12.06	11.91	12.11
2-Nitrotoluene	12.90	12.69	12.99
4-Nitrotoluene	13.33	13.13	13.43
3-Nitrotoluene	13.93	13.71	14.01
PETN	15.04	14.82	15.12
1,2-Dinitrobenzene	8.76	8.59	8.89

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110032.D
 Lims ID: CCV INT
 Client ID:
 Sample Type: CCV
 Inject. Date: 12-Jun-2020 00:33:37 ALS Bottle#: 7 Worklist Smp#: 32
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: CCV INT
 Misc. Info.: 280-0092324-032
 Operator ID: JZ Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 12-Jun-2020 12:39:47 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX1034

First Level Reviewer: zhangji

Date: 12-Jun-2020 11:04:13

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.711	6.696	0.015	22386	0.2500	0.2604	M
7 RDX	1	7.791	7.776	0.015	27795	0.2500	0.2384	
8 2,4,6-Trinitrophenol	1	8.098	8.069	0.029	22053	0.2500	0.2590	
\$ 9 1,2-Dinitrobenzene	1	8.764	8.743	0.021	36180	0.2500	0.2618	
10 1,3,5-Trinitrobenzene	1	8.944	8.916	0.028	60215	0.2505	0.2615	
11 1,3-Dinitrobenzene	1	9.598	9.569	0.029	80840	0.2505	0.2636	
12 Nitrobenzene	1	9.971	9.949	0.022	50599	0.2510	0.2525	
14 Tetryl	1	10.284	10.256	0.028	45461	0.2505	0.2568	
15 Nitroglycerin	2	10.798	10.762	0.036	182552	2.50	2.68	
16 2,4,6-Trinitrotoluene	1	11.264	11.222	0.042	54300	0.2510	0.2661	
17 4-Amino-2,6-dinitrotoluene	1	11.431	11.376	0.055	42813	0.2503	0.2465	
18 2-Amino-4,6-dinitrotoluene	1	11.724	11.662	0.062	52424	0.2510	0.2585	
19 2,6-Dinitrotoluene	1	11.864	11.809	0.055	41111	0.2510	0.2751	
20 2,4-Dinitrotoluene	1	12.064	12.009	0.055	81262	0.2510	0.2677	
21 o-Nitrotoluene	1	12.898	12.842	0.056	33821	0.2500	0.2504	
22 p-Nitrotoluene	1	13.331	13.276	0.055	29645	0.2505	0.2623	
23 m-Nitrotoluene	1	13.931	13.862	0.069	37310	0.2503	0.2609	
24 PETN	2	15.038	14.969	0.069	210862	2.50	2.68	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 25.00

Units: uL

Report Date: 12-Jun-2020 12:39:47

Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110032.d

Injection Date: 12-Jun-2020 00:33:37

Instrument ID: CHHPLC_X3

Operator ID: JZ

Lims ID: CCV INT

Worklist Smp#: 32

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

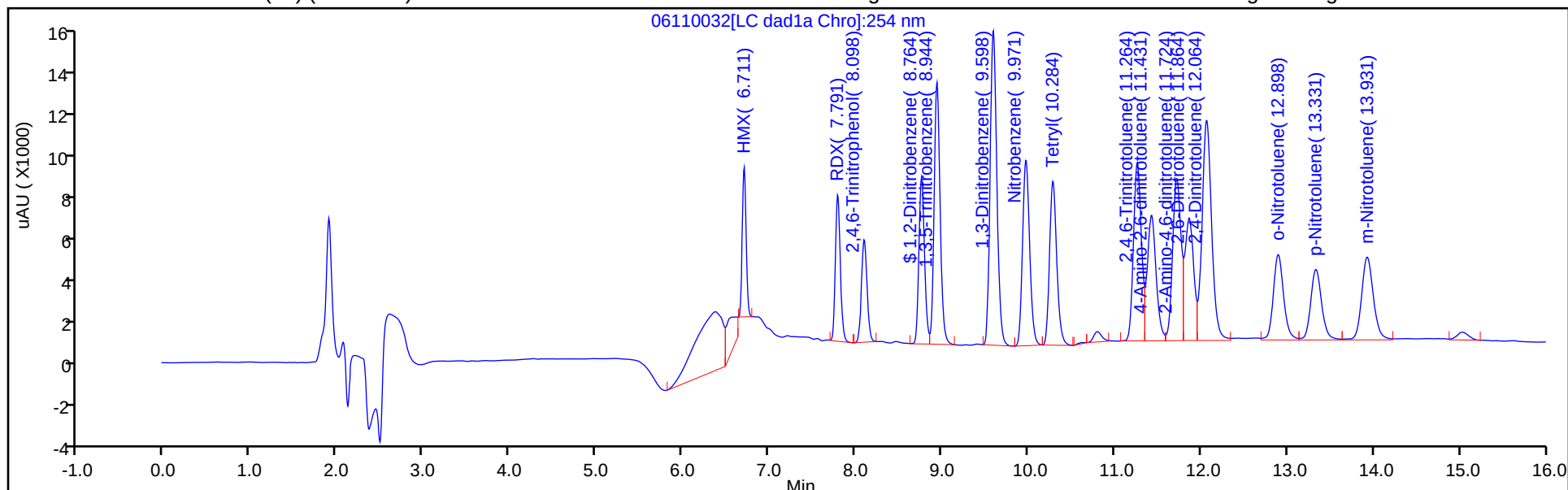
ALS Bottle#: 7

Method: 8330_X3

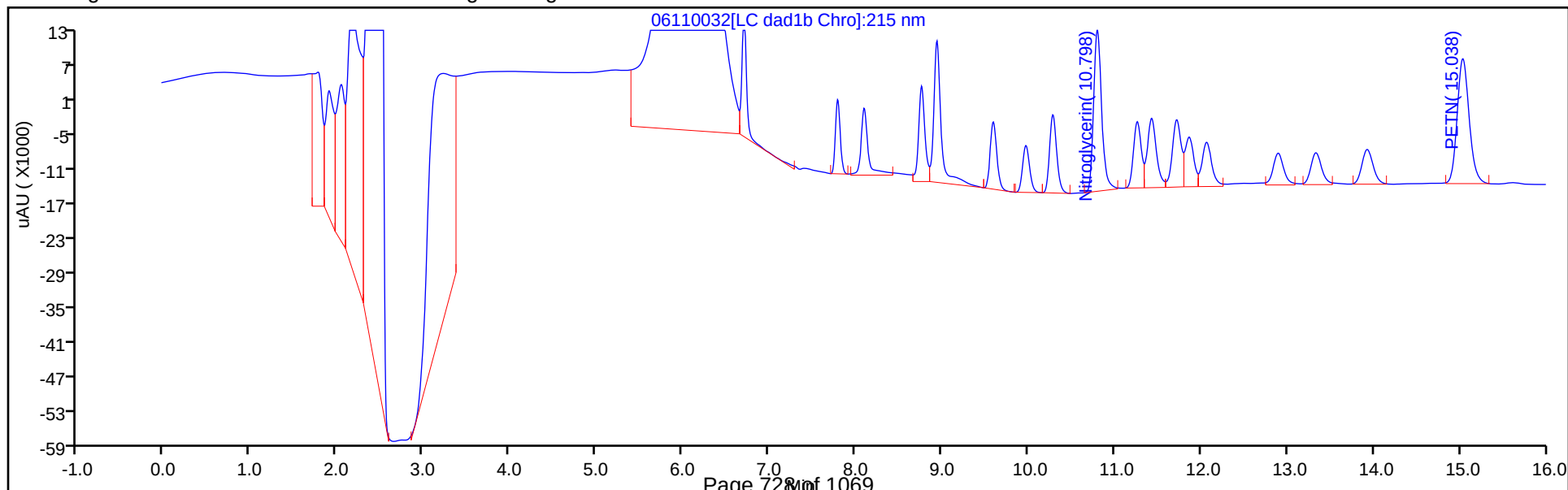
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

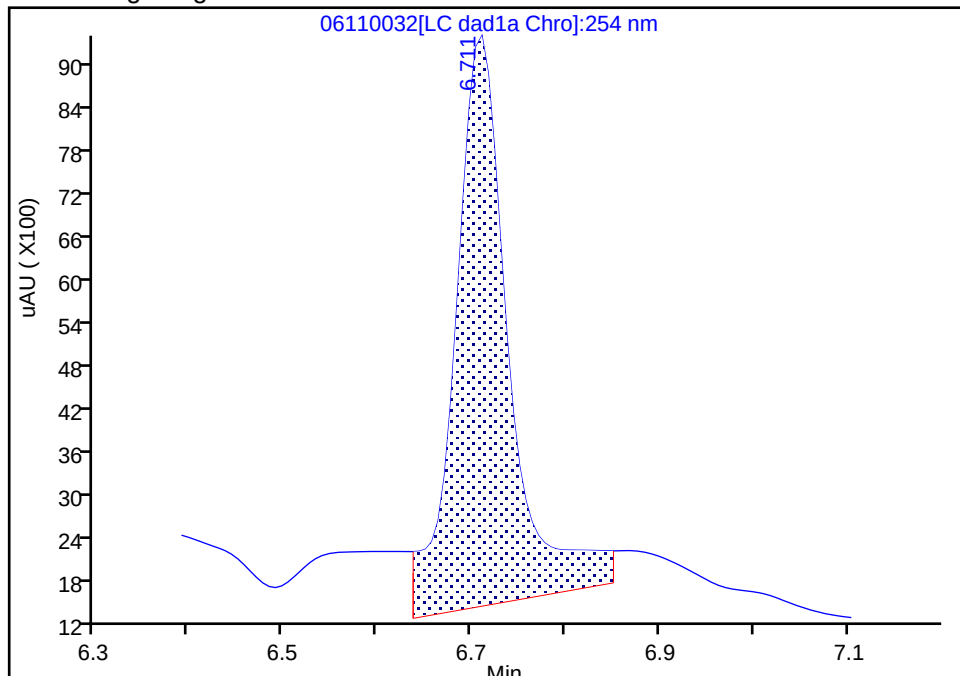
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Injection Date: 12-Jun-2020 00:33:37 Instrument ID: CHHPLC_X3
Lims ID: CCV INT
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 32
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

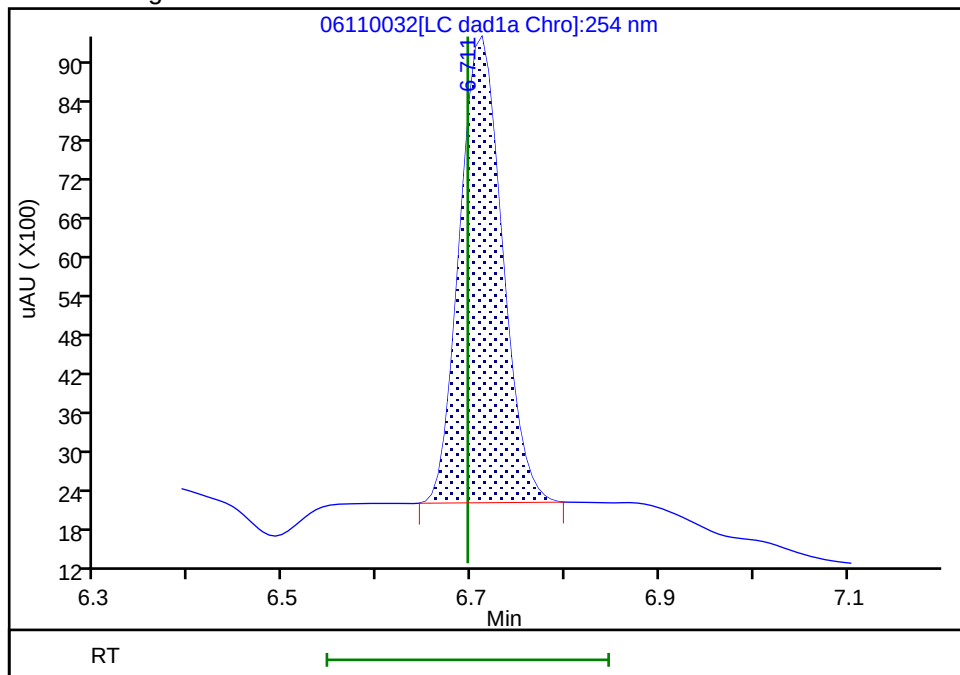
RT: 6.71
Area: 31217
Amount: 0.363148
Amount Units: ug/mL

Processing Integration Results



RT: 6.71
Area: 22386
Amount: 0.260417
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:04:08
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-498360/33 Calibration Date: 06/12/2020 00:56
Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/04/2020 23:40
Lab File ID: 06110033.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	201283		231	250	-7.5	15.0
DNX	Ave	152928	151684		248	250	-0.8	15.0
MNX	Ave	158544	138125		254	292	-12.9	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-498360/33 Calibration Date: 06/12/2020 00:56
Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/04/2020 23:40
Lab File ID: 06110033.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.62	6.53	6.73
DNX	6.95	6.85	7.05
MNX	7.39	7.26	7.56

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110033.D
 Lims ID: CCV DMT
 Client ID:
 Sample Type: CCV
 Inject. Date: 12-Jun-2020 00:56:36 ALS Bottle#: 9 Worklist Smp#: 33
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: CCV DMT
 Misc. Info.: 280-0092324-033
 Operator ID: JZ Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub17
 Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 12-Jun-2020 12:39:47 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX1034

First Level Reviewer: zhangji

Date: 12-Jun-2020 11:16:35

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.619	6.627	-0.008	50371	0.2503	0.2315	M
5 DNX	1	6.945	6.954	-0.009	37959	0.2503	0.2482	M
6 MNX	1	7.385	7.407	-0.022	40298	0.2918	0.2542	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00006

Amount Added: 12.50

Units: uL

Report Date: 12-Jun-2020 12:39:47

Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurolins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110033.d

Injection Date: 12-Jun-2020 00:56:36

Instrument ID: CHHPLC_X3

Operator ID: JZ

Lims ID: CCV DMT

Worklist Smp#: 33

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

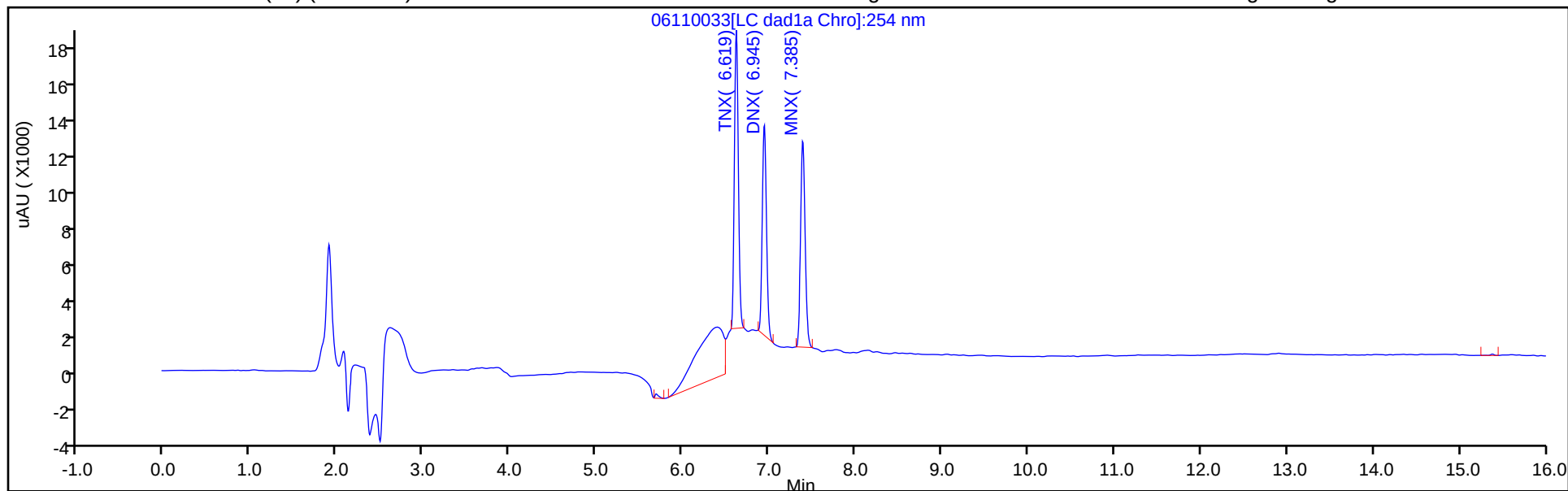
ALS Bottle#: 9

Method: 8330_X3

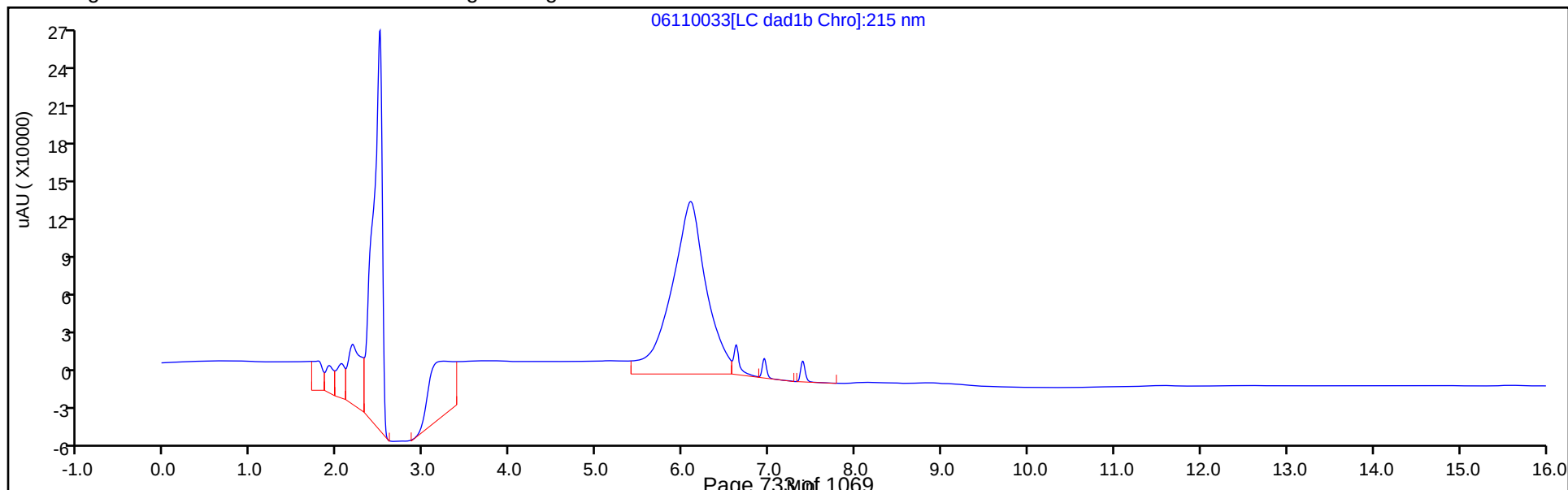
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

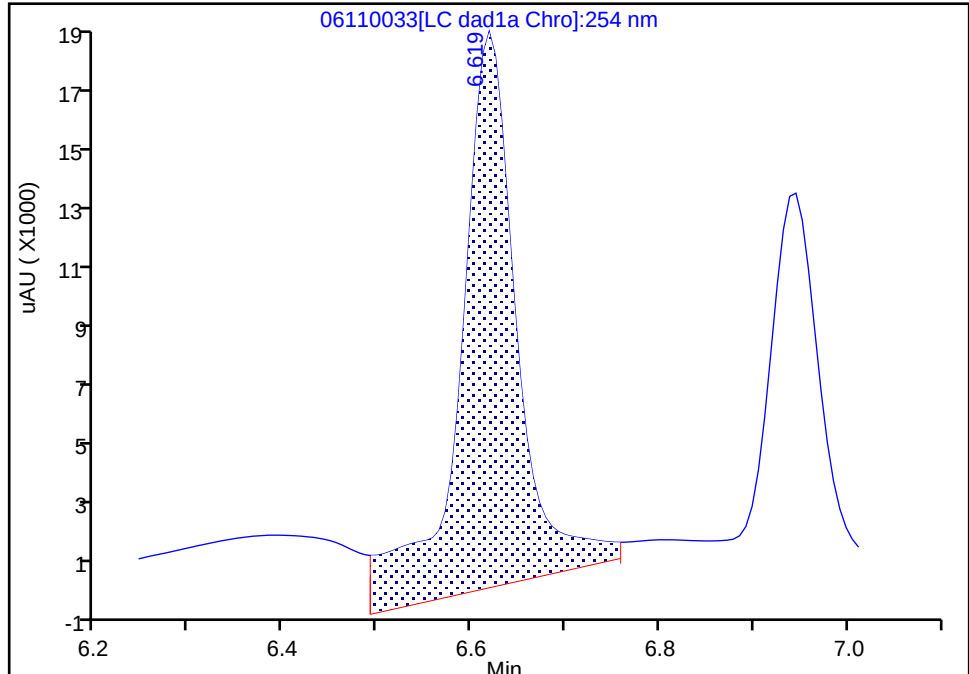
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110033.d
Injection Date: 12-Jun-2020 00:56:36 Instrument ID: CHHPLC_X3
Lims ID: CCV DMT
Client ID:
Operator ID: JZ ALS Bottle#: 9 Worklist Smp#: 33
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

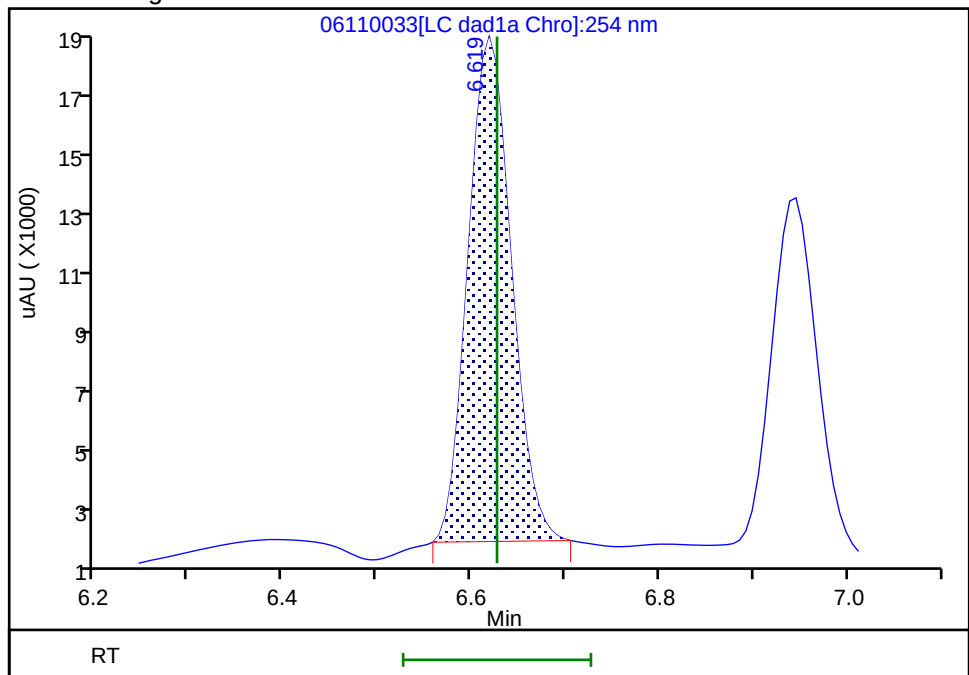
RT: 6.62
Area: 73447
Amount: 0.337519
Amount Units: ug/mL

Processing Integration Results



RT: 6.62
Area: 50371
Amount: 0.231475
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:16:23
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

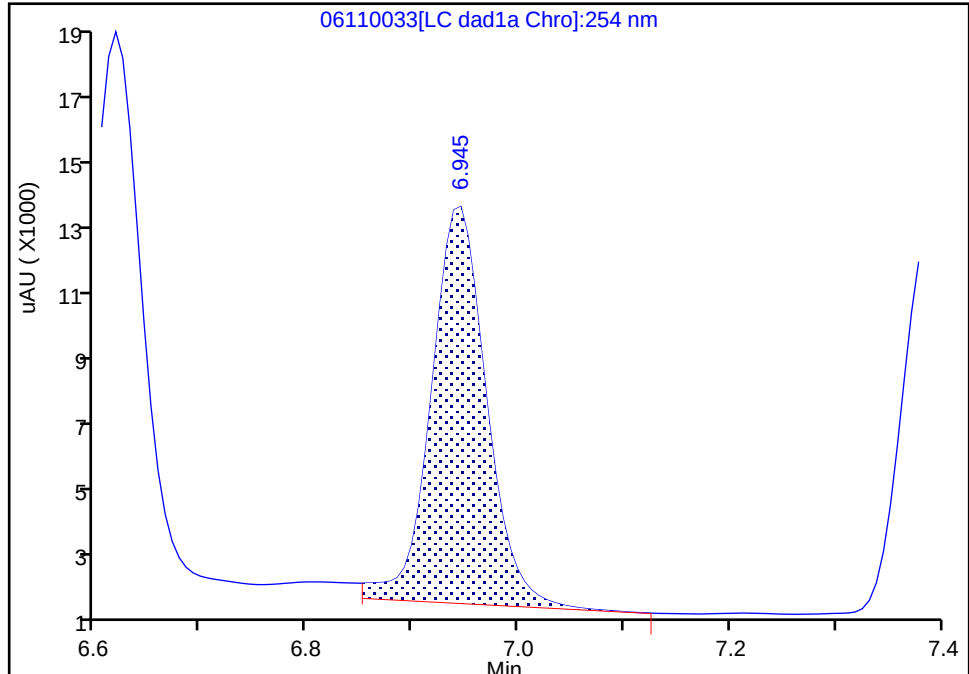
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110033.d
Injection Date: 12-Jun-2020 00:56:36 Instrument ID: CHHPLC_X3
Lims ID: CCV DMT
Client ID:
Operator ID: JZ ALS Bottle#: 9 Worklist Smp#: 33
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

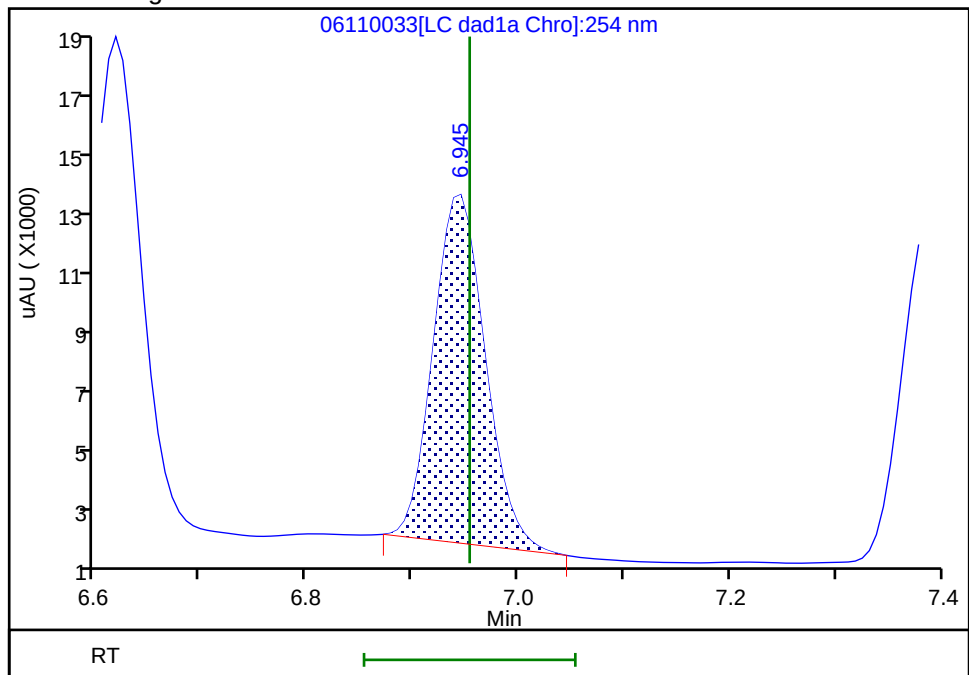
RT: 6.95
Area: 41746
Amount: 0.272978
Amount Units: ug/mL

Processing Integration Results



RT: 6.95
Area: 37959
Amount: 0.248214
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:16:27
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

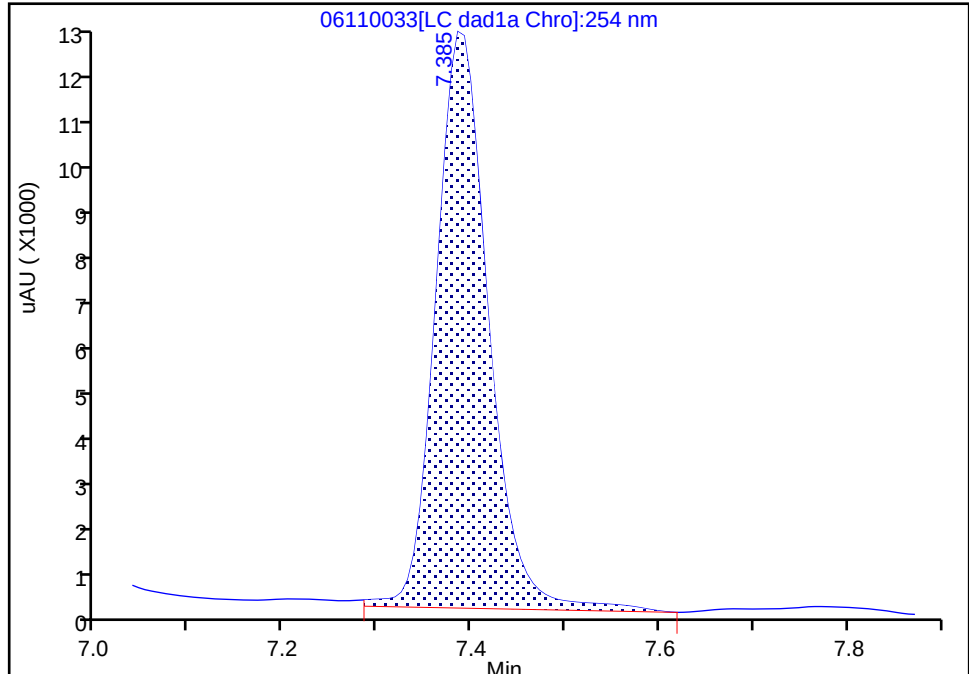
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110033.d
Injection Date: 12-Jun-2020 00:56:36 Instrument ID: CHHPLC_X3
Lims ID: CCV DMT
Client ID:
Operator ID: JZ ALS Bottle#: 9 Worklist Smp#: 33
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

6 MNX, CAS: 5755-27-1

Signal: 1

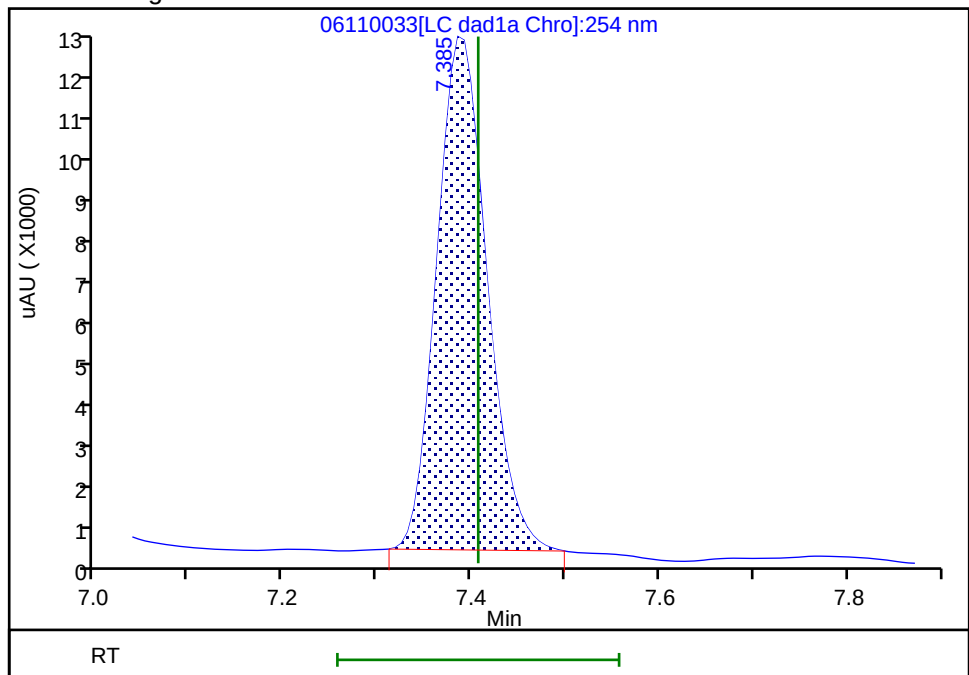
RT: 7.39
Area: 43079
Amount: 0.271716
Amount Units: ug/mL

Processing Integration Results



RT: 7.39
Area: 40298
Amount: 0.254175
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:16:30
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCV 280-498360/48 Calibration Date: 06/12/2020 06:41
 Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35
 GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/18/2020 14:39
 Lab File ID: 06110048.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	90740		264	250	5.6	15.0
RDX	Ave	116613	112104		240	250	-3.9	15.0
Picric acid	Ave	85131	90588		266	250	6.4	15.0
1,3,5-Trinitrobenzene	Ave	230309	244958		266	251	6.4	15.0
1,3-Dinitrobenzene	Ave	306686	325940		266	251	6.3	15.0
Nitrobenzene	Ave	200403	198430		249	251	-1.0	15.0
Tetryl	Ave	177032	183234		259	251	3.5	15.0
Nitroglycerin	Ave	68133	73979		2710	2500	8.6	15.0
2,4,6-Trinitrotoluene	Ave	204031	219032		269	251	7.4	15.0
4-Amino-2,6-dinitrotoluene	Lin2		171125		247	250	-1.5	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	210179		260	251	3.6	15.0
2,6-Dinitrotoluene	Ave	149452	165335		278	251	10.6	15.0
2,4-Dinitrotoluene	Ave	303584	321665		266	251	6.0	15.0
2-Nitrotoluene	Ave	135051	127756		236	250	-5.4	15.0
4-Nitrotoluene	Ave	113005	111553		247	251	-1.3	15.0
3-Nitrotoluene	Ave	143029	143417		251	250	0.3	15.0
PETN	Ave	78605	84275		2680	2500	7.2	15.0
1,2-Dinitrobenzene	Ave	138212	146900		266	250	6.3	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCV 280-498360/48 Calibration Date: 06/12/2020 06:41
 Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35
 GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/18/2020 14:39
 Lab File ID: 06110048.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.72	6.55	6.85
RDX	7.80	7.63	7.93
Picric acid	8.11	7.92	8.22
1,3,5-Trinitrobenzene	8.96	8.77	9.07
1,3-Dinitrobenzene	9.61	9.42	9.72
Nitrobenzene	9.99	9.80	10.10
Tetryl	10.30	10.11	10.41
Nitroglycerin	10.82	10.61	10.91
2,4,6-Trinitrotoluene	11.28	11.12	11.32
4-Amino-2,6-dinitrotoluene	11.45	11.28	11.48
2-Amino-4,6-dinitrotoluene	11.74	11.56	11.76
2,6-Dinitrotoluene	11.88	11.71	11.91
2,4-Dinitrotoluene	12.08	11.91	12.11
2-Nitrotoluene	12.91	12.69	12.99
4-Nitrotoluene	13.35	13.13	13.43
3-Nitrotoluene	13.95	13.71	14.01
PETN	15.06	14.82	15.12
1,2-Dinitrobenzene	8.78	8.59	8.89

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110048.D
 Lims ID: CCV INT
 Client ID:
 Sample Type: CCV
 Inject. Date: 12-Jun-2020 06:41:46 ALS Bottle#: 7 Worklist Smp#: 48
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: CCV INT
 Misc. Info.: 280-0092324-048
 Operator ID: JZ Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 12-Jun-2020 12:39:46 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX1034

First Level Reviewer: zhangji

Date: 12-Jun-2020 11:32:12

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.716	6.696	0.020	22685	0.2500	0.2639	
7 RDX	1	7.802	7.776	0.026	28026	0.2500	0.2403	
8 2,4,6-Trinitrophenol	1	8.109	8.069	0.040	22647	0.2500	0.2660	
\$ 9 1,2-Dinitrobenzene	1	8.776	8.743	0.033	36725	0.2500	0.2657	
10 1,3,5-Trinitrobenzene	1	8.956	8.916	0.040	61362	0.2505	0.2664	
11 1,3-Dinitrobenzene	1	9.609	9.569	0.040	81648	0.2505	0.2662	
12 Nitrobenzene	1	9.989	9.949	0.040	49806	0.2510	0.2485	
14 Tetryl	1	10.302	10.256	0.046	45900	0.2505	0.2593	
15 Nitroglycerin	2	10.815	10.762	0.053	184947	2.50	2.71	
16 2,4,6-Trinitrotoluene	1	11.282	11.222	0.060	54977	0.2510	0.2695	
17 4-Amino-2,6-dinitrotoluene	1	11.449	11.376	0.073	42824	0.2503	0.2466	
18 2-Amino-4,6-dinitrotoluene	1	11.742	11.662	0.080	52755	0.2510	0.2601	a
19 2,6-Dinitrotoluene	1	11.882	11.809	0.073	41499	0.2510	0.2777	a
20 2,4-Dinitrotoluene	1	12.082	12.009	0.073	80738	0.2510	0.2659	
21 o-Nitrotoluene	1	12.909	12.842	0.067	31939	0.2500	0.2365	
22 p-Nitrotoluene	1	13.349	13.276	0.073	27944	0.2505	0.2473	
23 m-Nitrotoluene	1	13.949	13.862	0.087	35890	0.2503	0.2509	
24 PETN	2	15.055	14.969	0.086	210688	2.50	2.68	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8330IntermStk_00061

Amount Added: 25.00

Units: uL

Report Date: 12-Jun-2020 12:39:46

Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110048.d

Injection Date: 12-Jun-2020 06:41:46

Instrument ID: CHHPLC_X3

Operator ID: JZ

Lims ID: CCV INT

Worklist Smp#: 48

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

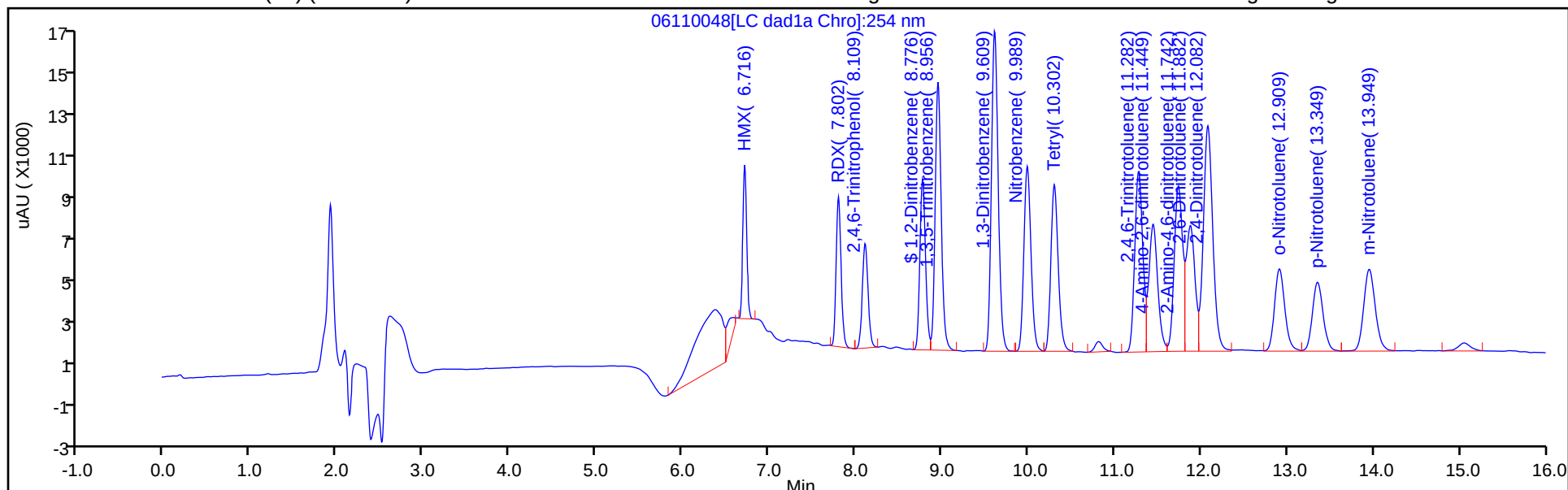
ALS Bottle#: 7

Method: 8330_X3

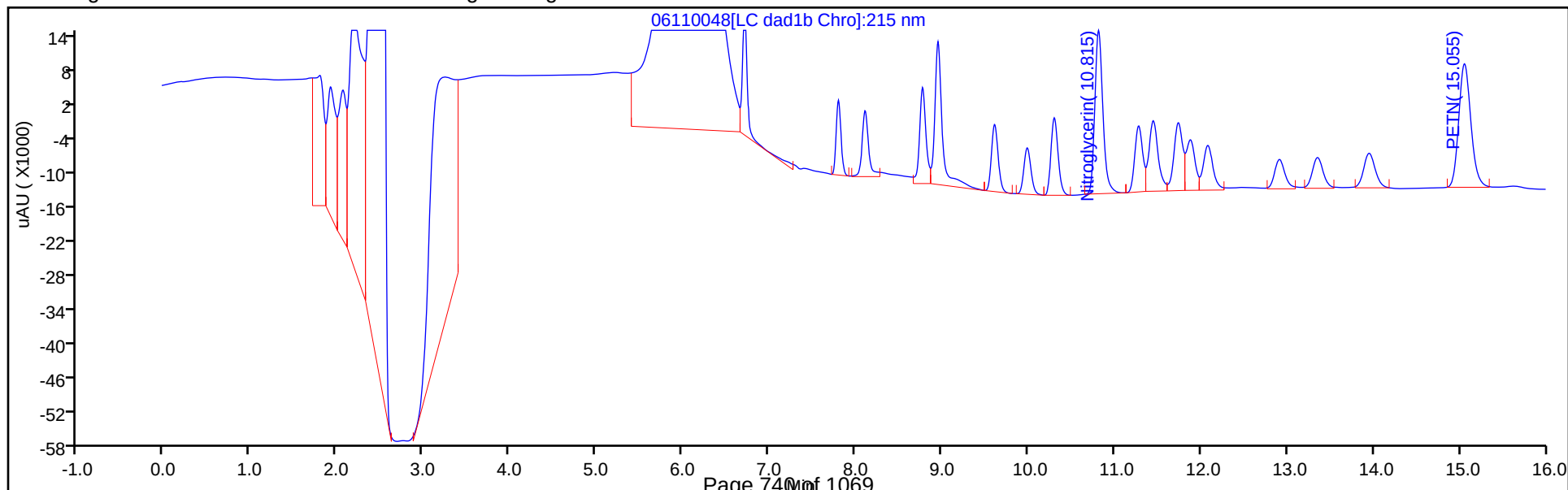
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

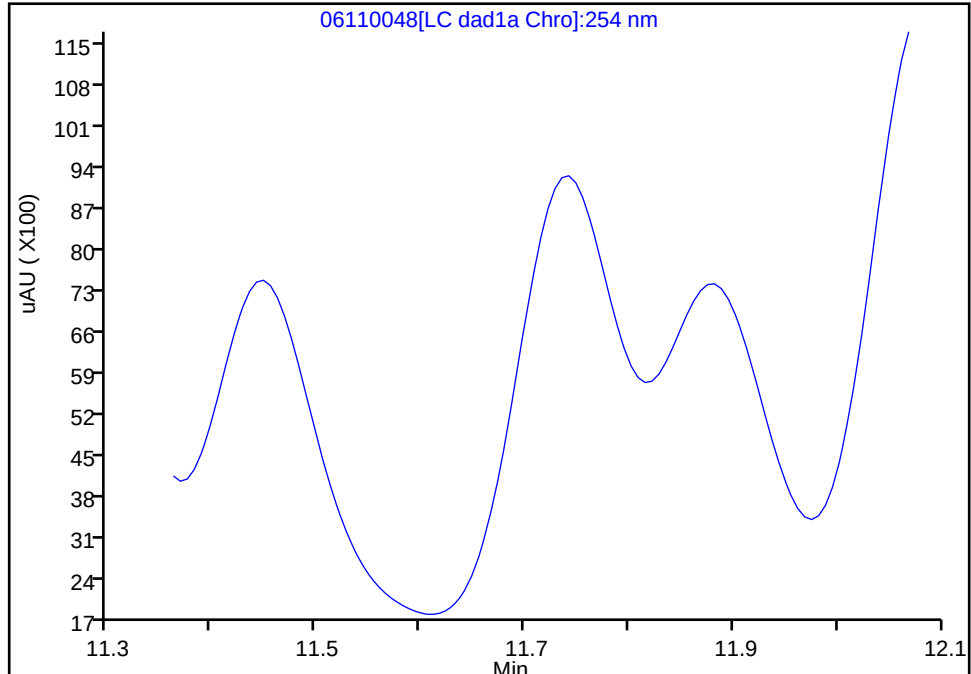
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Injection Date: 12-Jun-2020 06:41:46 Instrument ID: CHHPLC_X3
Lims ID: CCV INT
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 48
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

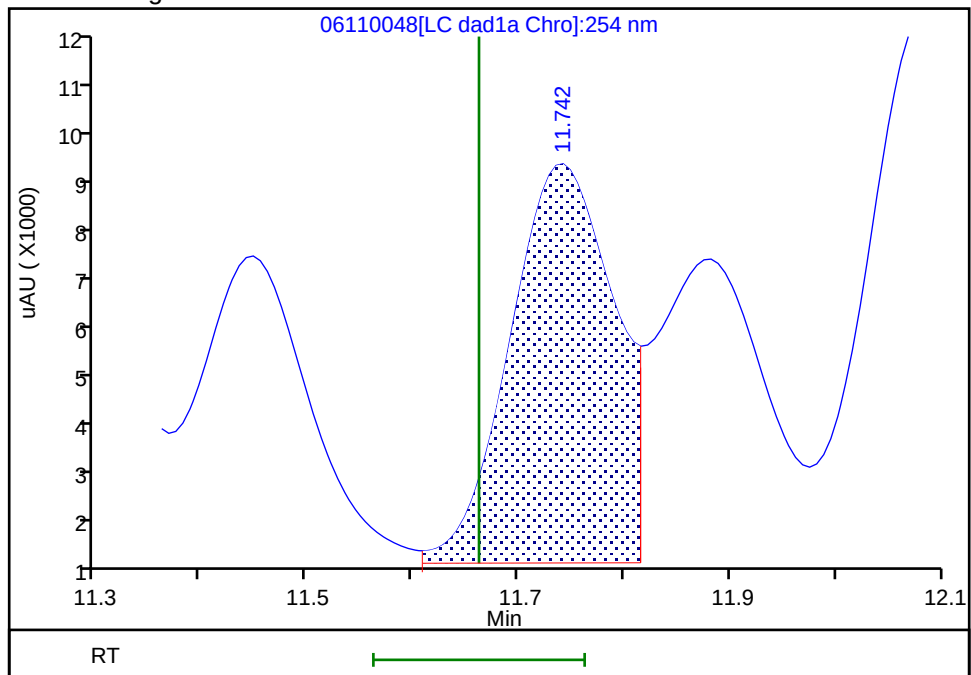
Not Detected
Expected RT: 11.66

Processing Integration Results



Manual Integration Results

RT: 11.74
Area: 52755
Amount: 0.260112
Amount Units: ug/mL



Reviewer: zhangji, 12-Jun-2020 11:32:03

Audit Action: Assigned Compound ID

Audit Reason:

Eurofins TestAmerica, Denver

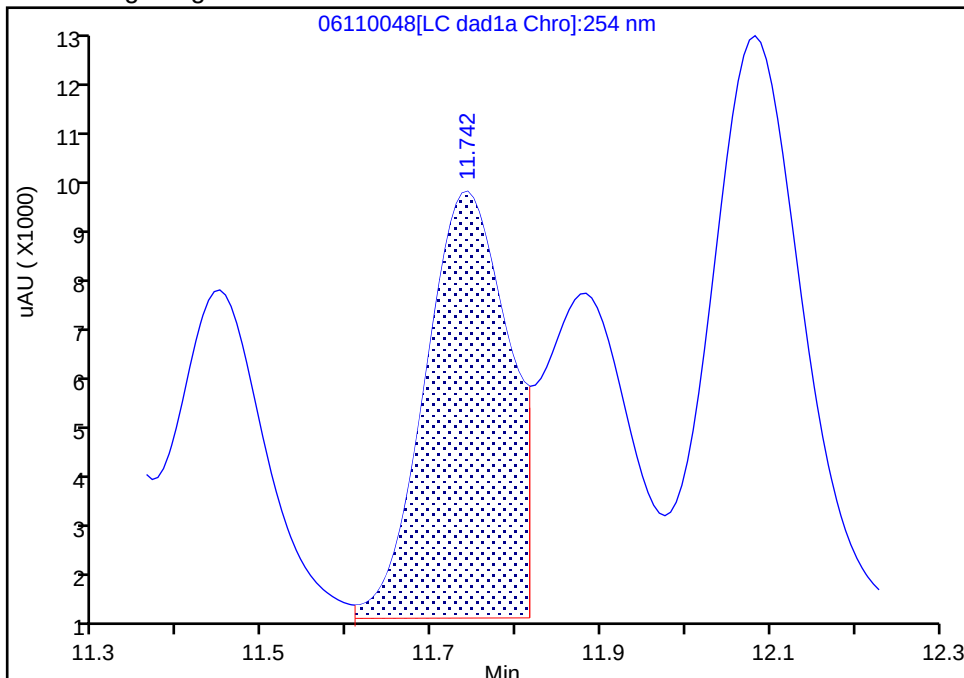
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110048.d
Injection Date: 12-Jun-2020 06:41:46 Instrument ID: CHHPLC_X3
Lims ID: CCV INT
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 48
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

19 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

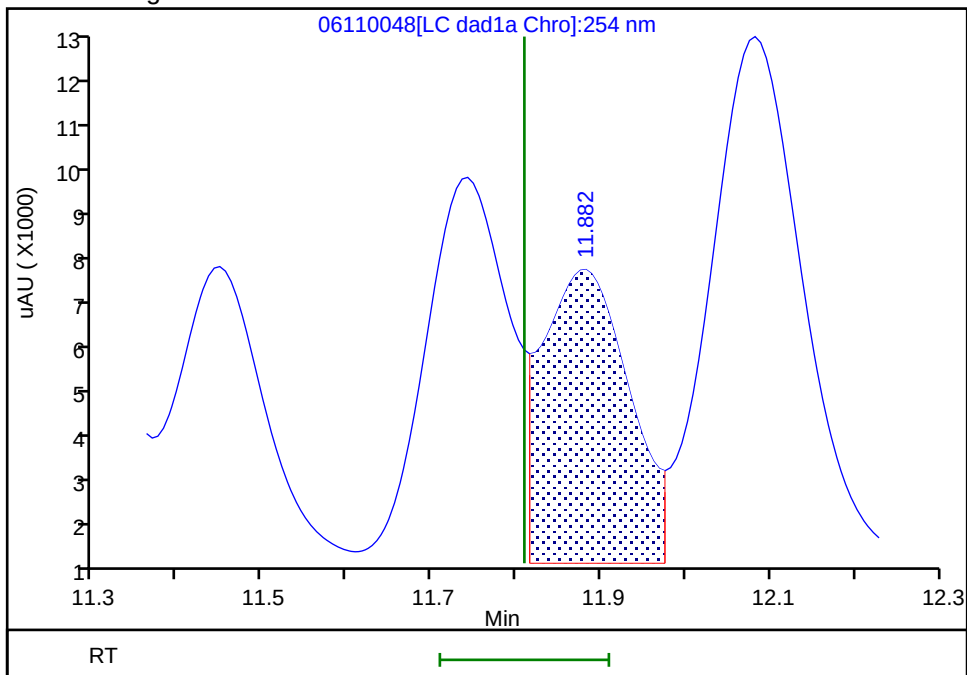
RT: 11.74
Area: 52755
Amount: 0.352989
Amount Units: ug/mL

Processing Integration Results



RT: 11.88
Area: 41499
Amount: 0.277674
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:32:06
Audit Action: Assigned Compound ID

Audit Reason:
Page 742 of 1069

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-498360/49 Calibration Date: 06/12/2020 07:04
Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/04/2020 23:40
Lab File ID: 06110049.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	199145		229	250	-8.5	15.0
DNX	Ave	152928	148324		243	250	-3.0	15.0
MNX	Ave	158544	138344		255	292	-12.7	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-498360/49 Calibration Date: 06/12/2020 07:04
Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/04/2020 23:40
Lab File ID: 06110049.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.62	6.53	6.73
DNX	6.95	6.85	7.05
MNX	7.40	7.26	7.56

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110049.D
 Lims ID: CCV DMT
 Client ID:
 Sample Type: CCV
 Inject. Date: 12-Jun-2020 07:04:53 ALS Bottle#: 9 Worklist Smp#: 49
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: CCV DMT
 Misc. Info.: 280-0092324-049
 Operator ID: JZ Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub17
 Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 12-Jun-2020 12:39:46 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX1034

First Level Reviewer: zhangji

Date: 12-Jun-2020 11:32:37

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.622	6.627	-0.005	49836	0.2503	0.2290	M
5 DNX	1	6.949	6.954	-0.005	37118	0.2503	0.2427	M
6 MNX	1	7.395	7.407	-0.012	40362	0.2918	0.2546	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00006

Amount Added: 12.50

Units: uL

Report Date: 12-Jun-2020 12:39:46

Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110049.d

Injection Date: 12-Jun-2020 07:04:53

Instrument ID: CHHPLC_X3

Operator ID: JZ

Lims ID: CCV DMT

Worklist Smp#: 49

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

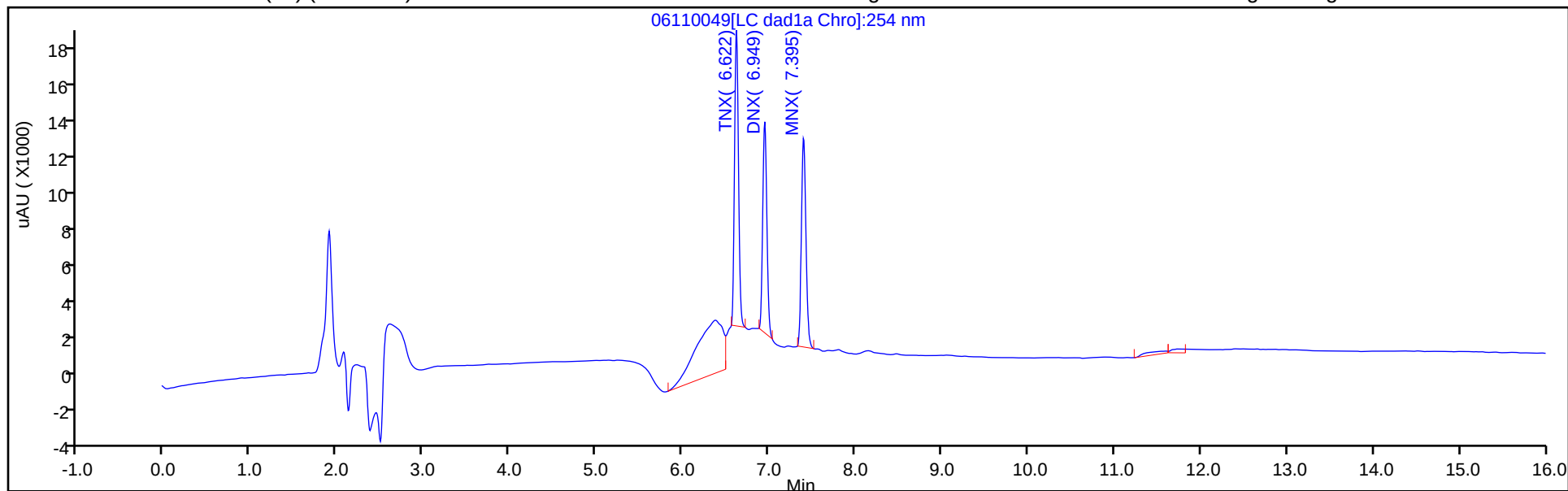
ALS Bottle#: 9

Method: 8330_X3

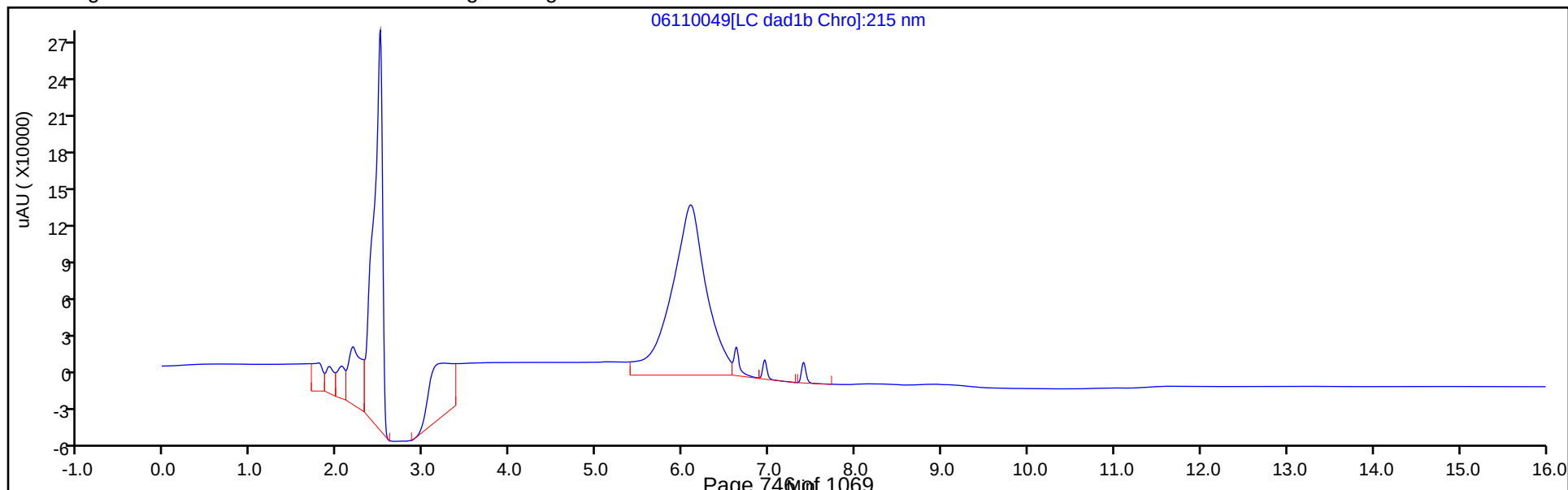
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

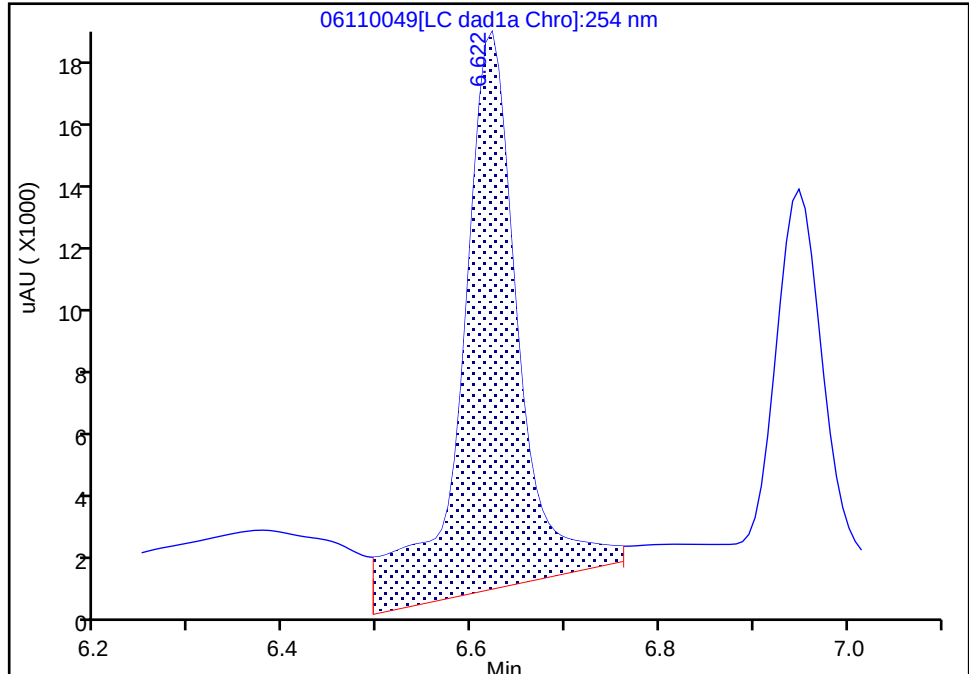
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110049.d
Injection Date: 12-Jun-2020 07:04:53 Instrument ID: CHHPLC_X3
Lims ID: CCV DMT
Client ID:
Operator ID: JZ ALS Bottle#: 9 Worklist Smp#: 49
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

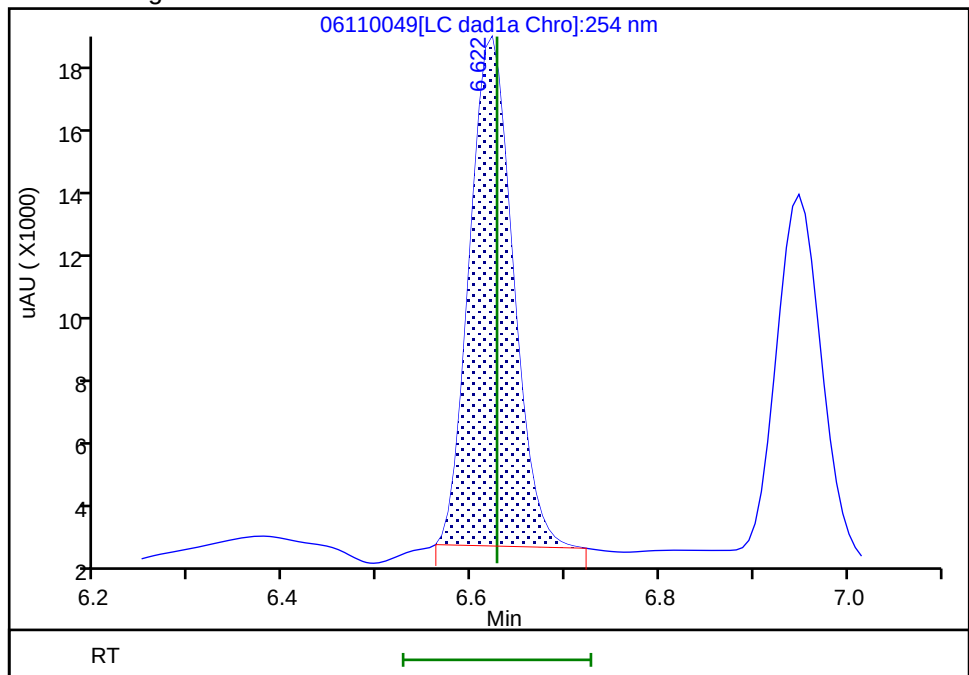
RT: 6.62
Area: 71745
Amount: 0.329697
Amount Units: ug/mL

Processing Integration Results



RT: 6.62
Area: 49836
Amount: 0.229017
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:32:21
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

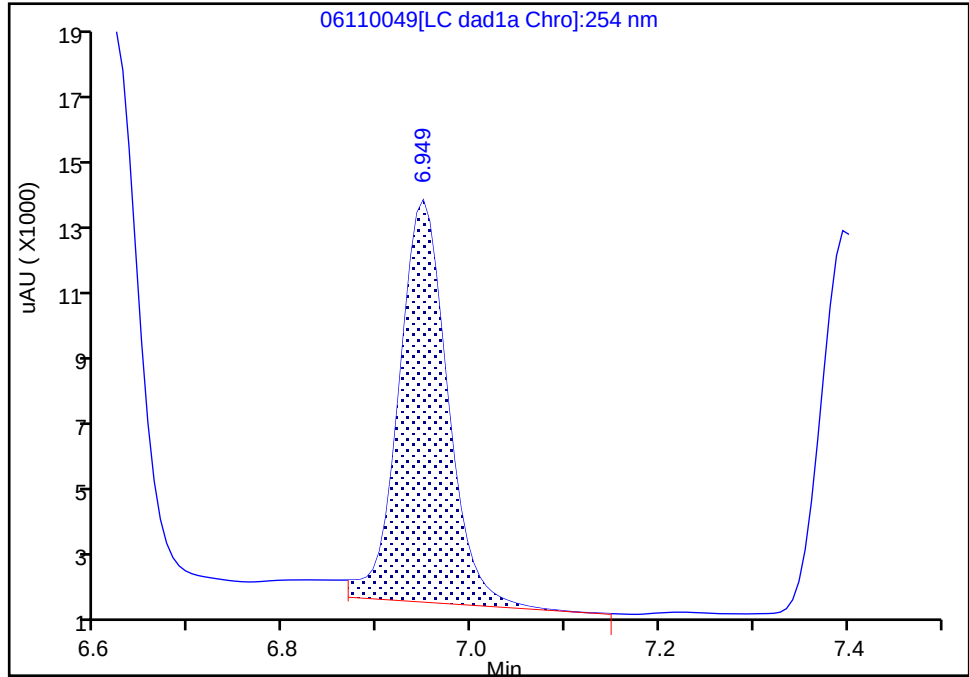
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110049.d
Injection Date: 12-Jun-2020 07:04:53 Instrument ID: CHHPLC_X3
Lims ID: CCV DMT
Client ID:
Operator ID: JZ ALS Bottle#: 9 Worklist Smp#: 49
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

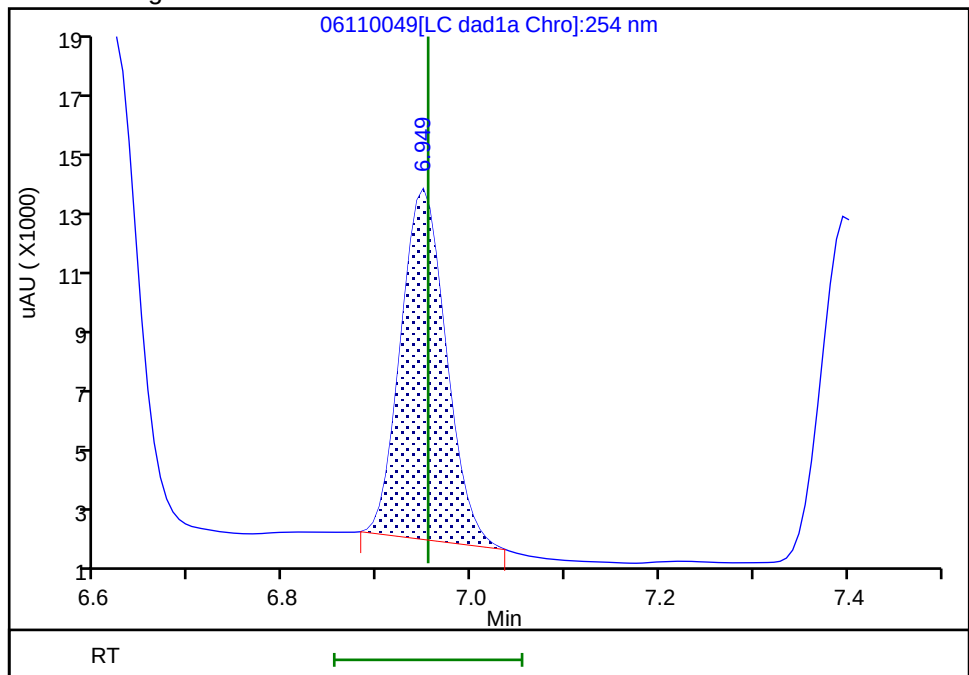
RT: 6.95
Area: 41361
Amount: 0.270460
Amount Units: ug/mL

Processing Integration Results



RT: 6.95
Area: 37118
Amount: 0.242715
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:32:25
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

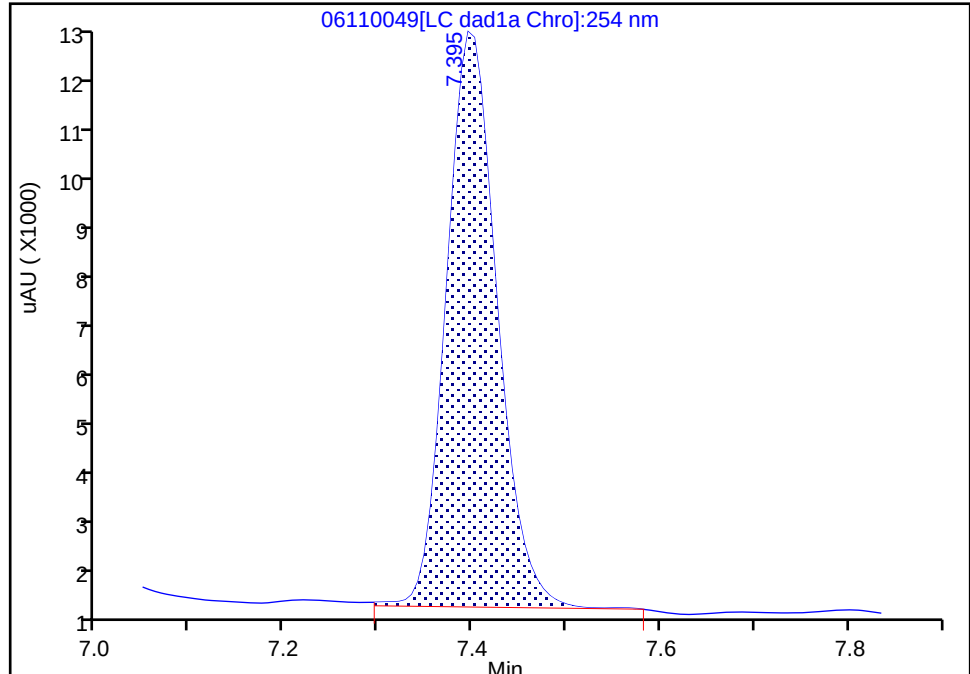
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110049.d
Injection Date: 12-Jun-2020 07:04:53 Instrument ID: CHHPLC_X3
Lims ID: CCV DMT
Client ID:
Operator ID: JZ ALS Bottle#: 9 Worklist Smp#: 49
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

6 MNX, CAS: 5755-27-1

Signal: 1

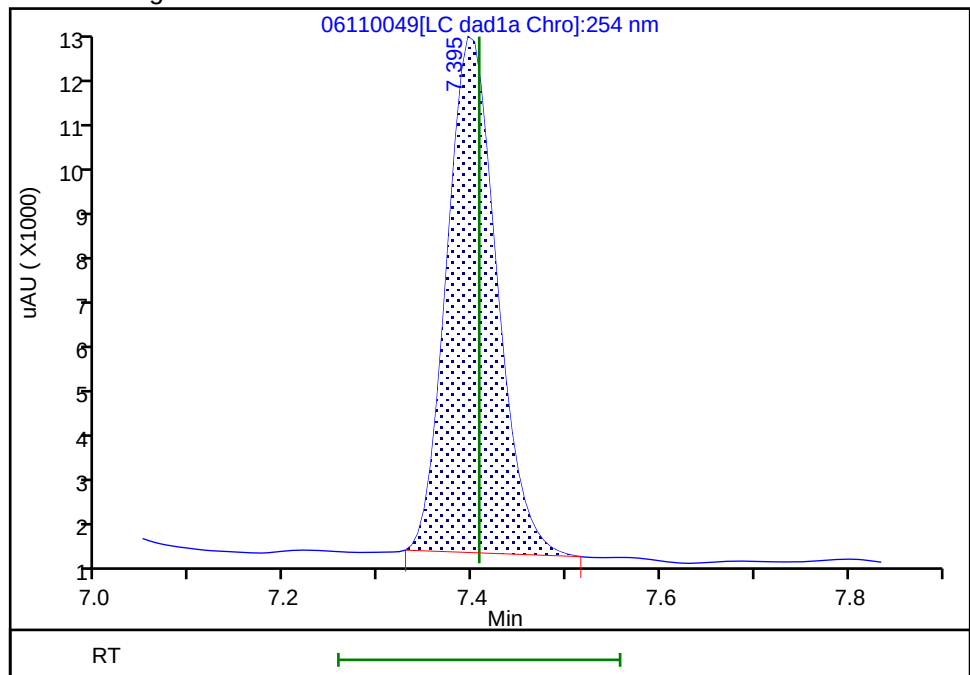
RT: 7.40
Area: 41399
Amount: 0.261120
Amount Units: ug/mL

Processing Integration Results



RT: 7.40
Area: 40362
Amount: 0.254579
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:32:31
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCV 280-498536/7 Calibration Date: 06/12/2020 13:26
 Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35
 GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/18/2020 14:39
 Lab File ID: 06120007.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	90656		264	250	5.5	15.0
RDX	Ave	116613	112424		241	250	-3.6	15.0
Picric acid	Ave	85131	85172		250	250	0.0	15.0
1,3,5-Trinitrobenzene	Ave	230309	241501		263	251	4.9	15.0
1,3-Dinitrobenzene	Ave	306686	323537		264	251	5.5	15.0
Nitrobenzene	Ave	200403	209028		262	251	4.3	15.0
Tetryl	Ave	177032	181054		256	251	2.3	15.0
Nitroglycerin	Ave	68133	73750		2710	2500	8.2	15.0
2,4,6-Trinitrotoluene	Ave	204031	219518		270	251	7.6	15.0
4-Amino-2,6-dinitrotoluene	Lin2		171105		247	250	-1.5	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	213247		264	251	5.1	15.0
2,6-Dinitrotoluene	Ave	149452	168598		283	251	12.8	15.0
2,4-Dinitrotoluene	Ave	303584	331761		274	251	9.3	15.0
2-Nitrotoluene	Ave	135051	144592		268	250	7.1	15.0
4-Nitrotoluene	Ave	113005	123701		274	251	9.5	15.0
3-Nitrotoluene	Ave	143029	146641		257	250	2.5	15.0
PETN	Ave	78605	85964		2730	2500	9.4	15.0
1,2-Dinitrobenzene	Ave	138212	145316		263	250	5.1	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCV 280-498536/7 Calibration Date: 06/12/2020 13:26
 Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35
 GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/18/2020 14:39
 Lab File ID: 06120007.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.70	6.55	6.85
RDX	7.80	7.65	7.95
Picric acid	8.11	7.96	8.26
1,3,5-Trinitrobenzene	8.96	8.81	9.11
1,3-Dinitrobenzene	9.62	9.47	9.77
Nitrobenzene	10.00	9.85	10.15
Tetryl	10.33	10.18	10.48
Nitroglycerin	10.85	10.70	11.00
2,4,6-Trinitrotoluene	11.31	11.21	11.41
4-Amino-2,6-dinitrotoluene	11.48	11.38	11.58
2-Amino-4,6-dinitrotoluene	11.78	11.68	11.88
2,6-Dinitrotoluene	11.92	11.82	12.02
2,4-Dinitrotoluene	12.12	12.02	12.22
2-Nitrotoluene	12.98	12.83	13.13
4-Nitrotoluene	13.42	13.27	13.57
3-Nitrotoluene	14.03	13.88	14.18
PETN	15.16	15.01	15.31
1,2-Dinitrobenzene	8.78	8.63	8.93

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120007.D
 Lims ID: CCV INT
 Client ID:
 Sample Type: CCV
 Inject. Date: 12-Jun-2020 13:26:15 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: CCV INT
 Misc. Info.: 280-0092367-007
 Operator ID: JZ Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 16-Jun-2020 18:11:21 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX1024

First Level Reviewer: zhangji

Date: 12-Jun-2020 13:52:33

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.704	6.704	0.000	22664	0.2500	0.2637	M
7 RDX	1	7.797	7.797	0.000	28106	0.2500	0.2410	
8 2,4,6-Trinitrophenol	1	8.111	8.111	0.000	21293	0.2500	0.2501	
\$ 9 1,2-Dinitrobenzene	1	8.777	8.777	0.000	36329	0.2500	0.2628	
10 1,3,5-Trinitrobenzene	1	8.957	8.957	0.000	60496	0.2505	0.2627	
11 1,3-Dinitrobenzene	1	9.617	9.617	0.000	81046	0.2505	0.2643	
12 Nitrobenzene	1	10.004	10.004	0.000	52466	0.2510	0.2618	
14 Tetryl	1	10.330	10.330	0.000	45354	0.2505	0.2562	
15 Nitroglycerin	2	10.850	10.850	0.000	184376	2.50	2.71	
16 2,4,6-Trinitrotoluene	1	11.310	11.310	0.000	55099	0.2510	0.2701	
17 4-Amino-2,6-dinitrotoluene	1	11.484	11.484	0.000	42819	0.2503	0.2466	
18 2-Amino-4,6-dinitrotoluene	1	11.784	11.784	0.000	53525	0.2510	0.2639	
19 2,6-Dinitrotoluene	1	11.924	11.924	0.000	42318	0.2510	0.2832	
20 2,4-Dinitrotoluene	1	12.124	12.124	0.000	83272	0.2510	0.2743	
21 o-Nitrotoluene	1	12.977	12.977	0.000	36148	0.2500	0.2677	
22 p-Nitrotoluene	1	13.424	13.424	0.000	30987	0.2505	0.2742	
23 m-Nitrotoluene	1	14.030	14.030	0.000	36697	0.2503	0.2566	
24 PETN	2	15.164	15.164	0.000	214910	2.50	2.73	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 25.00

Units: uL

Report Date: 16-Jun-2020 18:11:21

Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120007.d

Injection Date: 12-Jun-2020 13:26:15

Instrument ID: CHHPLC_X3

Operator ID: JZ

Lims ID: CCV INT

Worklist Smp#: 7

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

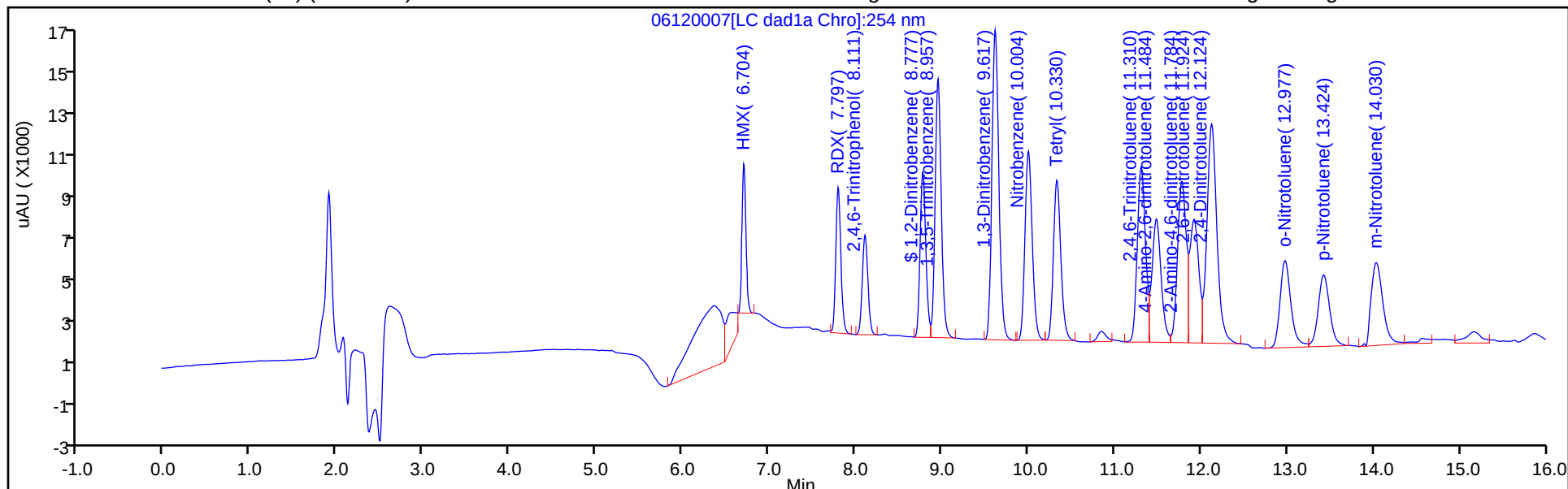
ALS Bottle#: 7

Method: 8330_X3

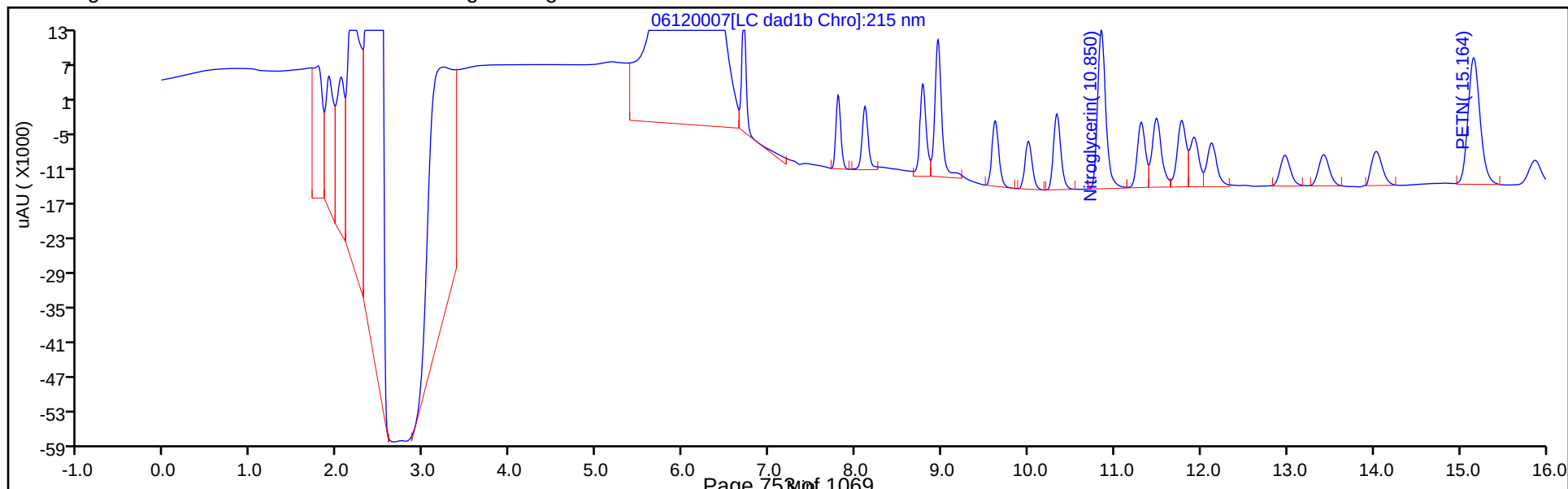
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

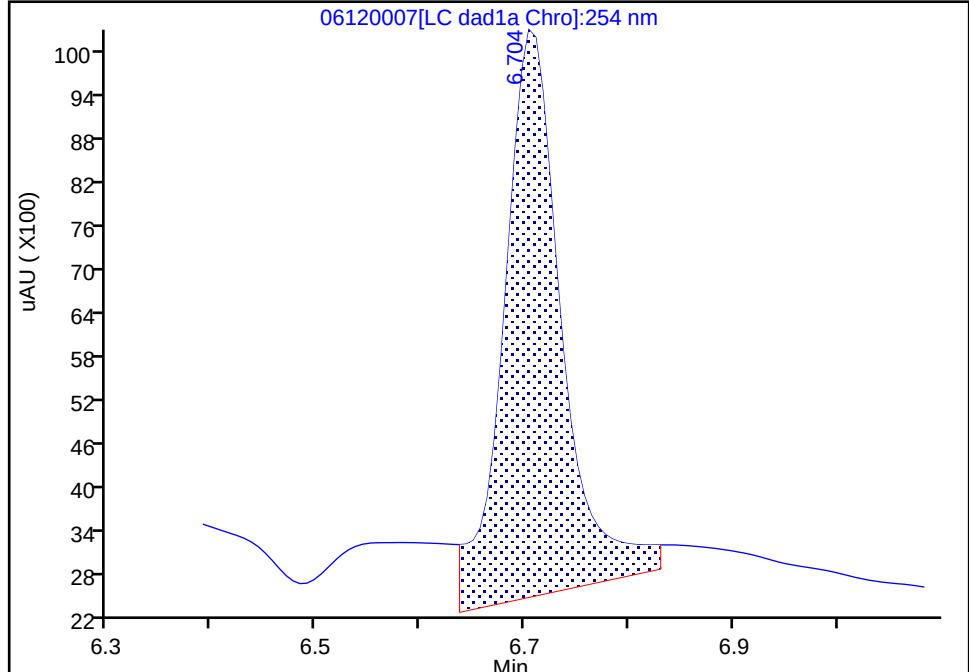
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Injection Date: 12-Jun-2020 13:26:15 Instrument ID: CHHPLC_X3
Lims ID: CCV INT
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

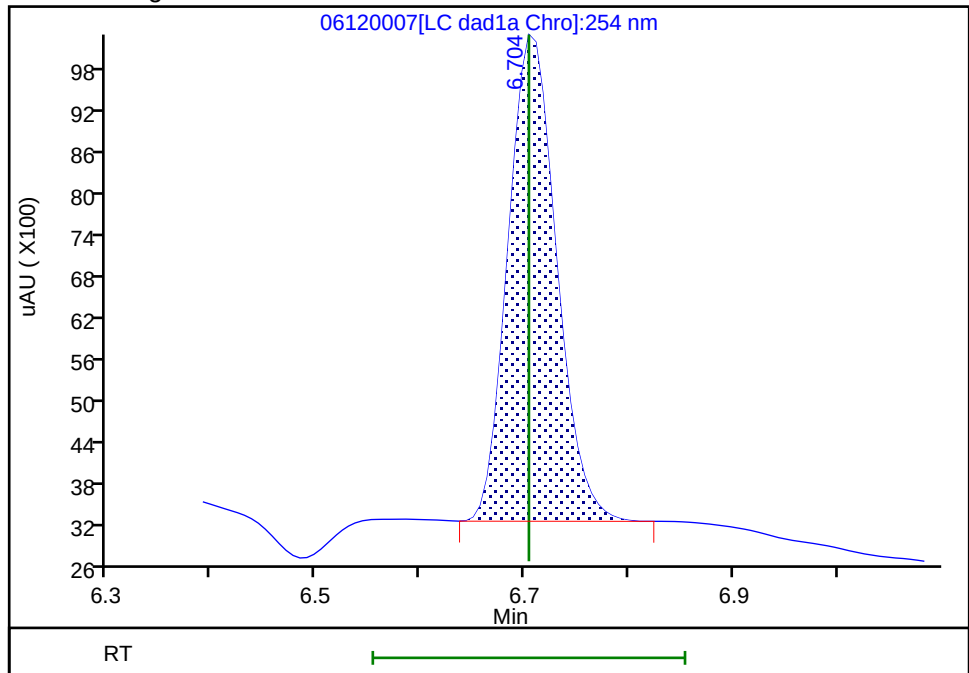
RT: 6.70
Area: 29931
Amount: 0.348188
Amount Units: ug/mL

Processing Integration Results



RT: 6.70
Area: 22664
Amount: 0.263651
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 13:52:30
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-498536/9 Calibration Date: 06/12/2020 14:12
Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/04/2020 23:40
Lab File ID: 06120009.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	205778		237	250	-5.4	15.0
DNX	Ave	152928	153646		251	250	0.5	15.0
MNX	Ave	158544	142958		263	292	-9.8	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-498536/9 Calibration Date: 06/12/2020 14:12
Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/04/2020 23:40
Lab File ID: 06120009.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.62	6.52	6.72
DNX	6.95	6.85	7.05
MNX	7.39	7.24	7.54

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120009.D
 Lims ID: CCV DMT
 Client ID:
 Sample Type: CCV
 Inject. Date: 12-Jun-2020 14:12:25 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: CCV DMT
 Misc. Info.: 280-0092367-009
 Operator ID: JZ Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub17
 Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 16-Jun-2020 18:11:22 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX1024

First Level Reviewer: zhangji

Date: 12-Jun-2020 14:39:45

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.621	6.621	0.000	51496	0.2503	0.2366	M
5 DNX	1	6.947	6.947	0.000	38450	0.2503	0.2514	M
6 MNX	1	7.394	7.394	0.000	41708	0.2918	0.2631	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00006

Amount Added: 12.50

Units: uL

Report Date: 16-Jun-2020 18:11:22

Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120009.d

Injection Date: 12-Jun-2020 14:12:25

Instrument ID: CHHPLC_X3

Operator ID: JZ

Lims ID: CCV DMT

Worklist Smp#: 9

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

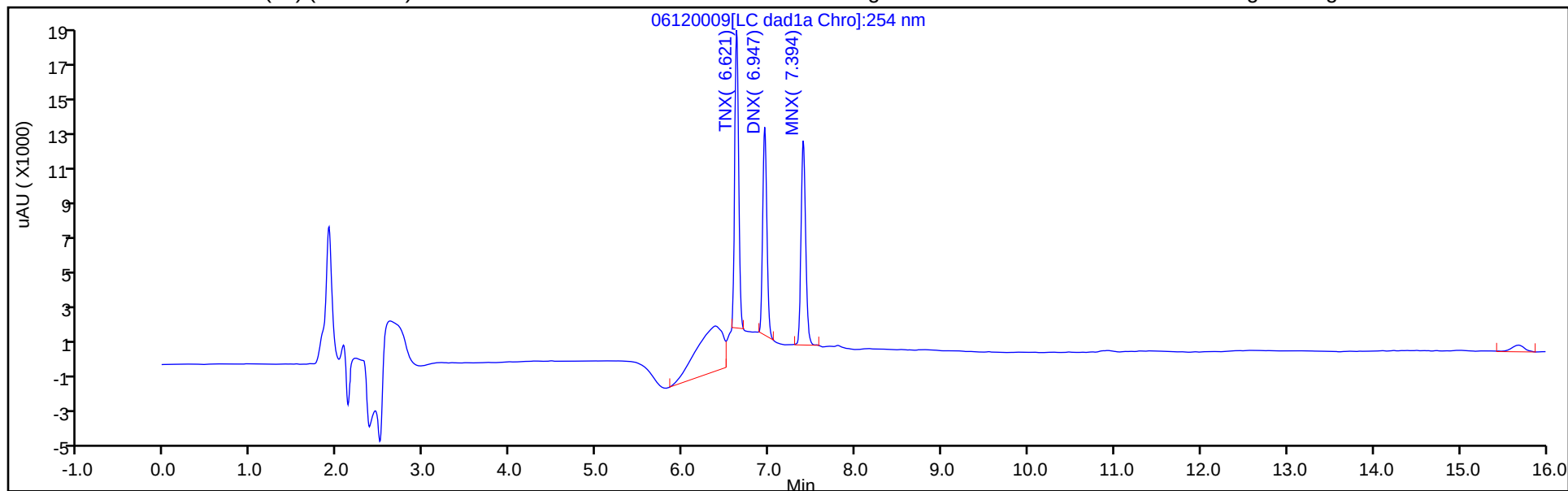
ALS Bottle#: 9

Method: 8330_X3

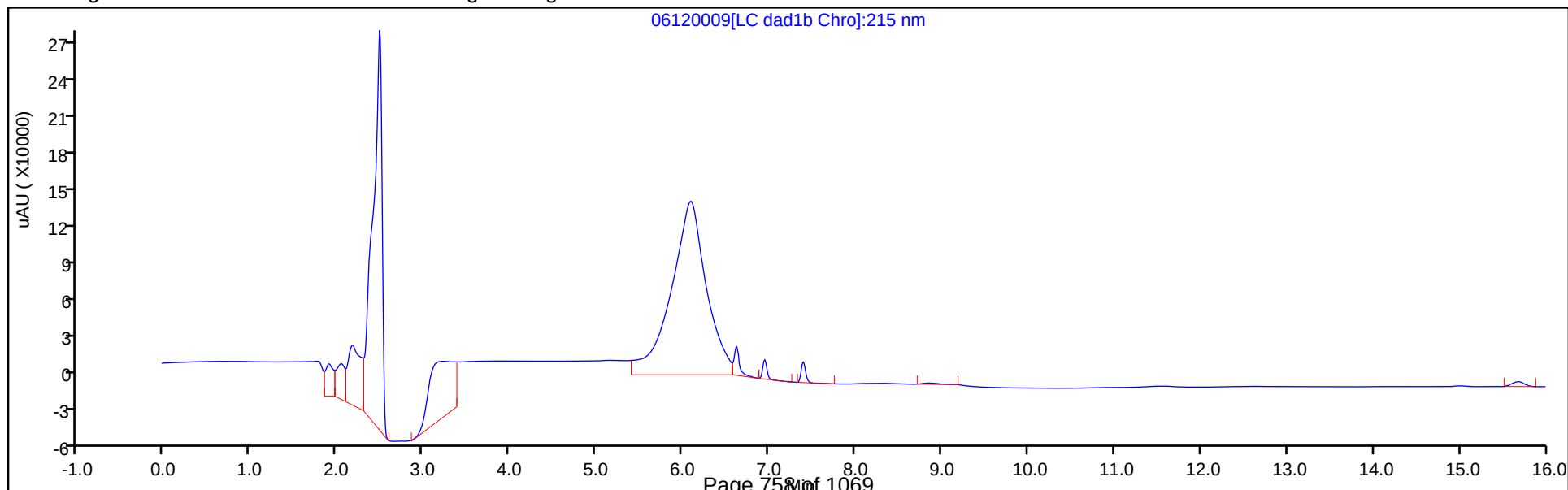
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

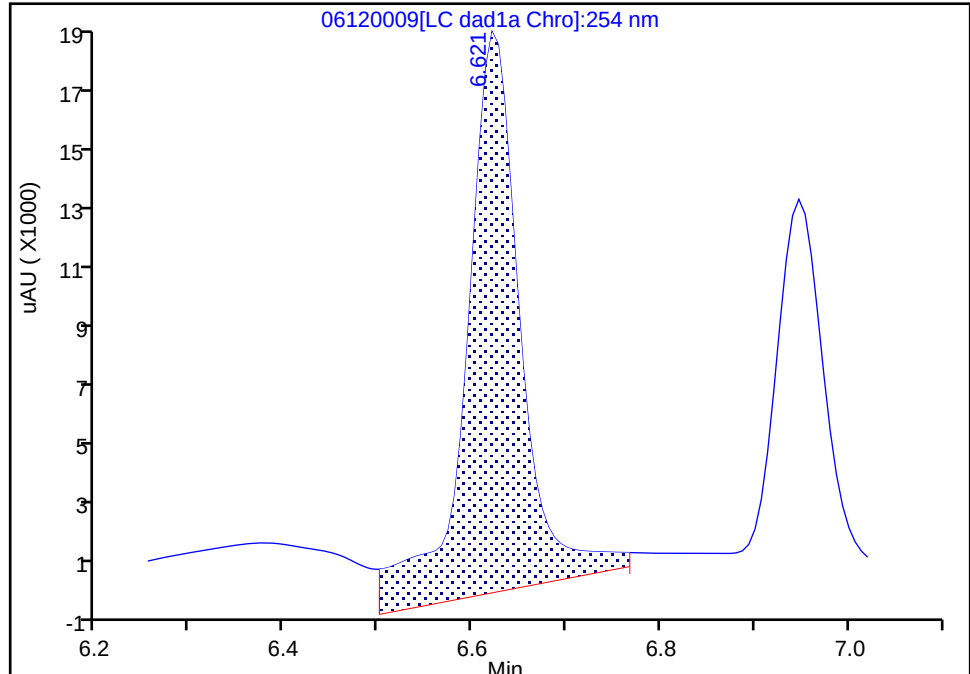
Data File: \\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120009.d
Injection Date: 12-Jun-2020 14:12:25 Instrument ID: CHHPLC_X3
Lims ID: CCV DMT
Client ID:
Operator ID: JZ ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

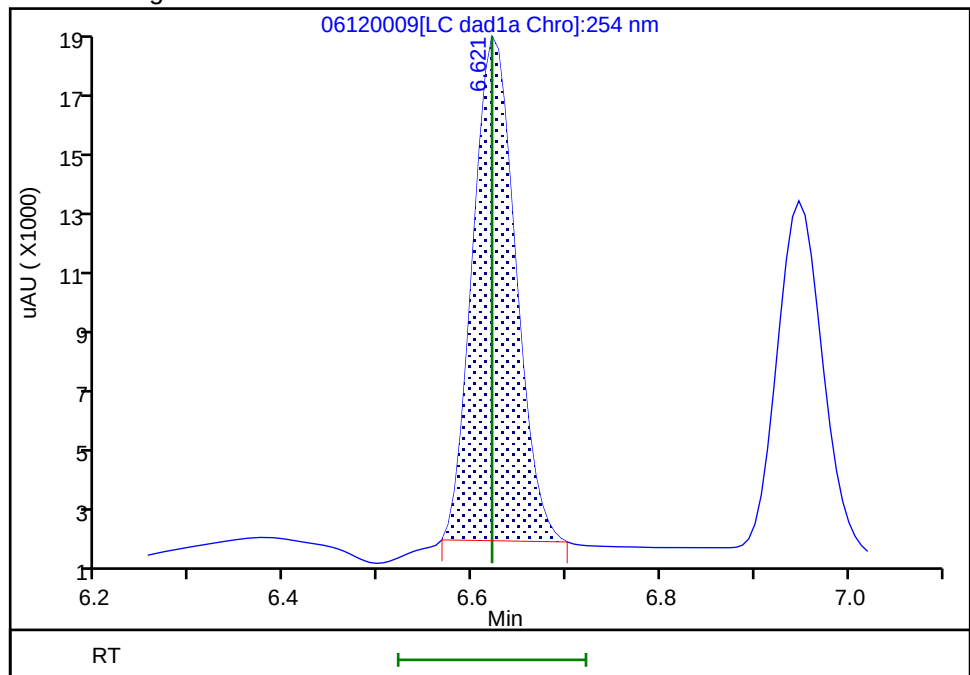
RT: 6.62
Area: 71547
Amount: 0.328787
Amount Units: ug/mL

Processing Integration Results



RT: 6.62
Area: 51496
Amount: 0.236645
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 14:39:37

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

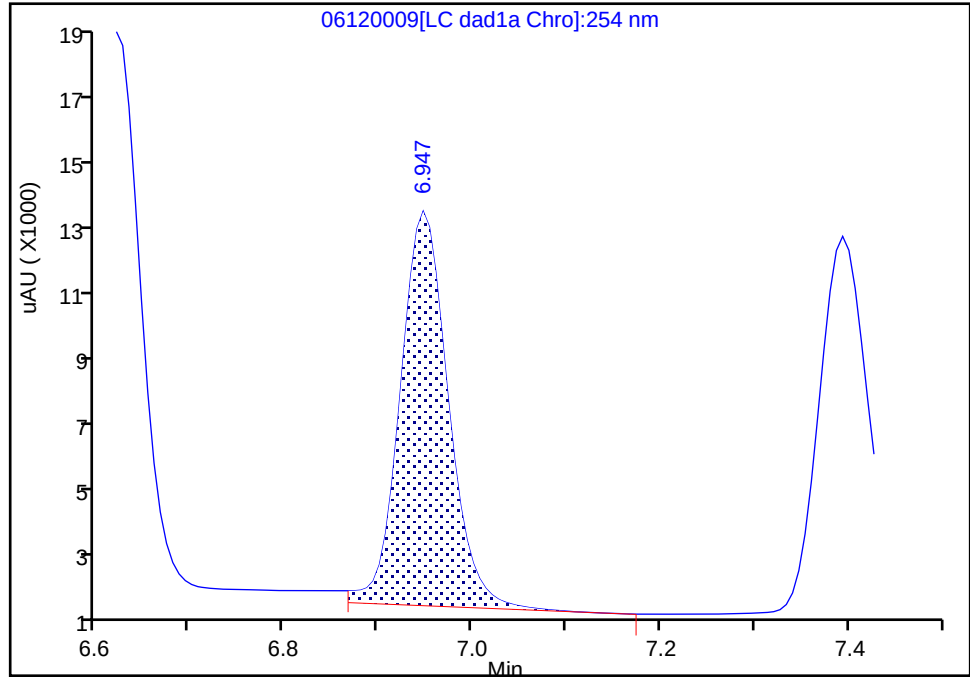
Data File: \\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120009.d
Injection Date: 12-Jun-2020 14:12:25 Instrument ID: CHHPLC_X3
Lims ID: CCV DMT
Client ID:
Operator ID: JZ ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

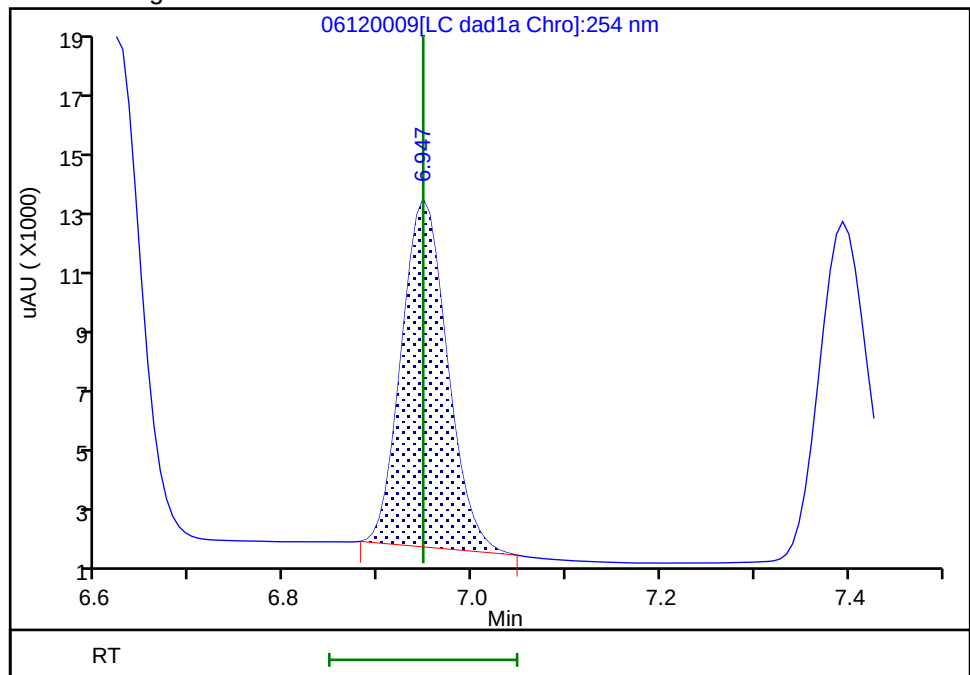
RT: 6.95
Area: 41425
Amount: 0.270879
Amount Units: ug/mL

Processing Integration Results



RT: 6.95
Area: 38450
Amount: 0.251425
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 14:39:41
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCV 280-498536/19 Calibration Date: 06/12/2020 18:02
 Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35
 GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/18/2020 14:39
 Lab File ID: 06120019.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	90768		264	250	5.6	15.0
RDX	Ave	116613	112836		242	250	-3.2	15.0
Picric acid	Ave	85131	86036		253	250	1.1	15.0
1,3,5-Trinitrobenzene	Ave	230309	242431		264	251	5.3	15.0
1,3-Dinitrobenzene	Ave	306686	324998		265	251	6.0	15.0
Nitrobenzene	Ave	200403	208538		261	251	4.1	15.0
Tetryl	Ave	177032	182727		259	251	3.2	15.0
Nitroglycerin	Ave	68133	75256		2760	2500	10.5	15.0
2,4,6-Trinitrotoluene	Ave	204031	219159		270	251	7.4	15.0
4-Amino-2,6-dinitrotoluene	Lin2		168727		243	250	-2.8	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	212578		263	251	4.8	15.0
2,6-Dinitrotoluene	Ave	149452	159255		267	251	6.6	15.0
2,4-Dinitrotoluene	Ave	303584	320080		265	251	5.4	15.0
2-Nitrotoluene	Ave	135051	135168		250	250	0.0	15.0
4-Nitrotoluene	Ave	113005	118699		263	251	5.0	15.0
3-Nitrotoluene	Ave	143029	147888		259	250	3.4	15.0
PETN	Ave	78605	86217		2740	2500	9.7	15.0
1,2-Dinitrobenzene	Ave	138212	146312		265	250	5.9	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Lab Sample ID: CCV 280-498536/19 Calibration Date: 06/12/2020 18:02
 Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35
 GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/18/2020 14:39
 Lab File ID: 06120019.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.71	6.55	6.85
RDX	7.80	7.65	7.95
Picric acid	8.11	7.96	8.26
1,3,5-Trinitrobenzene	8.96	8.81	9.11
1,3-Dinitrobenzene	9.62	9.47	9.77
Nitrobenzene	10.00	9.85	10.15
Tetryl	10.33	10.18	10.48
Nitroglycerin	10.84	10.70	11.00
2,4,6-Trinitrotoluene	11.30	11.21	11.41
4-Amino-2,6-dinitrotoluene	11.47	11.38	11.58
2-Amino-4,6-dinitrotoluene	11.76	11.68	11.88
2,6-Dinitrotoluene	11.90	11.82	12.02
2,4-Dinitrotoluene	12.10	12.02	12.22
2-Nitrotoluene	12.94	12.83	13.13
4-Nitrotoluene	13.38	13.27	13.57
3-Nitrotoluene	13.98	13.88	14.18
PETN	15.10	15.01	15.31
1,2-Dinitrobenzene	8.78	8.63	8.93

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120019.D
 Lims ID: CCV INT
 Client ID:
 Sample Type: CCV
 Inject. Date: 12-Jun-2020 18:02:33 ALS Bottle#: 7 Worklist Smp#: 19
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: CCV INT
 Misc. Info.: 280-0092367-019
 Operator ID: JZ Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 16-Jun-2020 18:11:26 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX1024

First Level Reviewer: zhangji

Date: 16-Jun-2020 14:03:13

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.713	6.704	0.009	22692	0.2500	0.2640	
7 RDX	1	7.800	7.797	0.003	28209	0.2500	0.2419	
8 2,4,6-Trinitrophenol	1	8.113	8.111	0.002	21509	0.2500	0.2527	
\$ 9 1,2-Dinitrobenzene	1	8.780	8.777	0.003	36578	0.2500	0.2647	
10 1,3,5-Trinitrobenzene	1	8.960	8.957	0.003	60729	0.2505	0.2637	
11 1,3-Dinitrobenzene	1	9.620	9.617	0.003	81412	0.2505	0.2655	
12 Nitrobenzene	1	10.000	10.004	-0.004	52343	0.2510	0.2612	
14 Tetryl	1	10.326	10.330	-0.004	45773	0.2505	0.2586	
15 Nitroglycerin	2	10.840	10.850	-0.010	188140	2.50	2.76	
16 2,4,6-Trinitrotoluene	1	11.300	11.310	-0.010	55009	0.2510	0.2696	
17 4-Amino-2,6-dinitrotoluene	1	11.473	11.484	-0.011	42224	0.2503	0.2432	
18 2-Amino-4,6-dinitrotoluene	1	11.760	11.784	-0.024	53357	0.2510	0.2631	
19 2,6-Dinitrotoluene	1	11.900	11.924	-0.024	39973	0.2510	0.2675	
20 2,4-Dinitrotoluene	1	12.100	12.124	-0.024	80340	0.2510	0.2646	
21 o-Nitrotoluene	1	12.940	12.977	-0.037	33792	0.2500	0.2502	
22 p-Nitrotoluene	1	13.380	13.424	-0.044	29734	0.2505	0.2631	
23 m-Nitrotoluene	1	13.980	14.030	-0.050	37009	0.2503	0.2588	
24 PETN	2	15.100	15.164	-0.064	215542	2.50	2.74	

Reagents:

8330IntermStk_00061

Amount Added: 25.00

Units: uL

Report Date: 16-Jun-2020 18:11:26

Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120019.d

Injection Date: 12-Jun-2020 18:02:33

Instrument ID: CHHPLC_X3

Operator ID: JZ

Lims ID: CCV INT

Worklist Smp#: 19

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

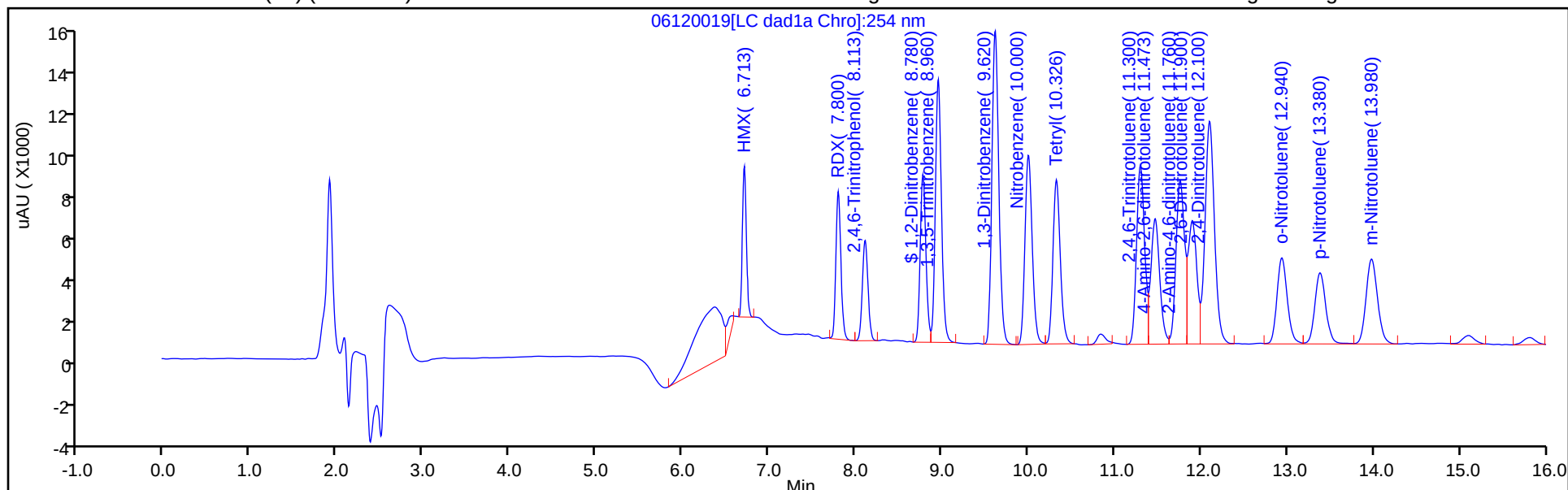
ALS Bottle#: 7

Method: 8330_X3

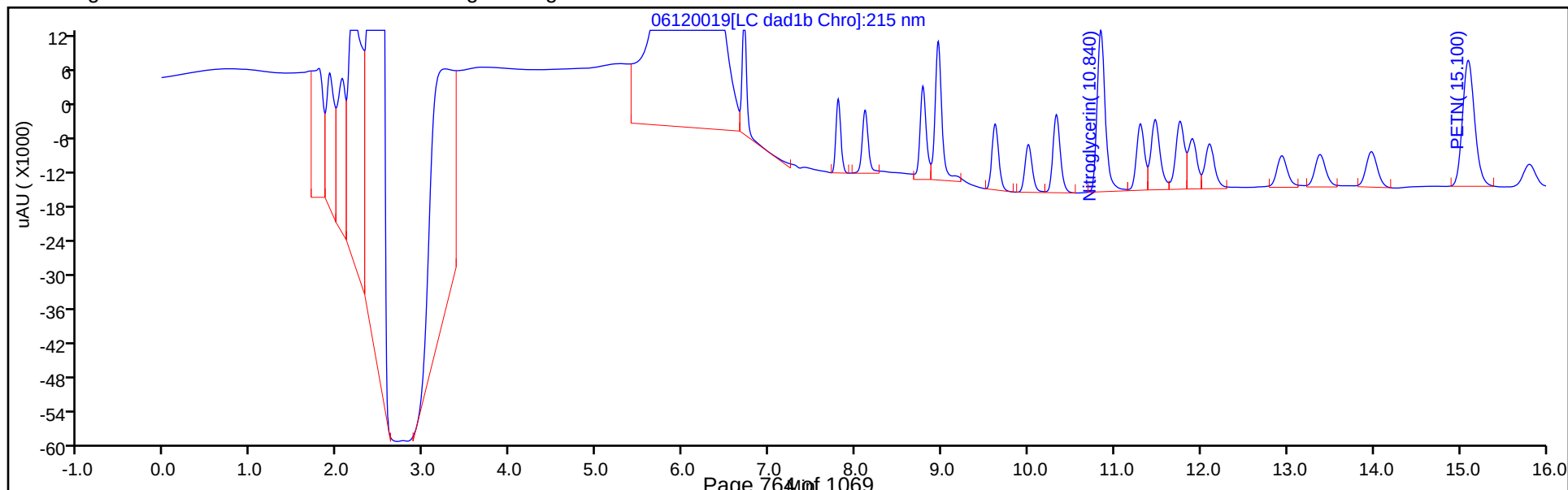
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-498536/20 Calibration Date: 06/12/2020 18:25
Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/04/2020 23:40
Lab File ID: 06120020.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	207341		238	250	-4.7	15.0
DNX	Ave	152928	153890		252	250	0.6	15.0
MNX	Ave	158544	141916		261	292	-10.5	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Lab Sample ID: CCV 280-498536/20 Calibration Date: 06/12/2020 18:25
Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/04/2020 23:40
Lab File ID: 06120020.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.62	6.52	6.72
DNX	6.94	6.85	7.05
MNX	7.39	7.24	7.54

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120020.D
 Lims ID: CCV DMT
 Client ID:
 Sample Type: CCV
 Inject. Date: 12-Jun-2020 18:25:30 ALS Bottle#: 9 Worklist Smp#: 20
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: CCV DMT
 Misc. Info.: 280-0092367-020
 Operator ID: JZ Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub17
 Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 16-Jun-2020 18:11:27 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX1024

First Level Reviewer: zhangji

Date: 16-Jun-2020 14:03:33

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.621	6.621	0.000	51887	0.2503	0.2384	M
5 DNX	1	6.941	6.947	-0.006	38511	0.2503	0.2518	M
6 MNX	1	7.394	7.394	0.000	41404	0.2918	0.2612	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00006

Amount Added: 12.50

Units: uL

Report Date: 16-Jun-2020 18:11:27

Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120020.d

Injection Date: 12-Jun-2020 18:25:30

Instrument ID: CHHPLC_X3

Operator ID: JZ

Lims ID: CCV DMT

Worklist Smp#: 20

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

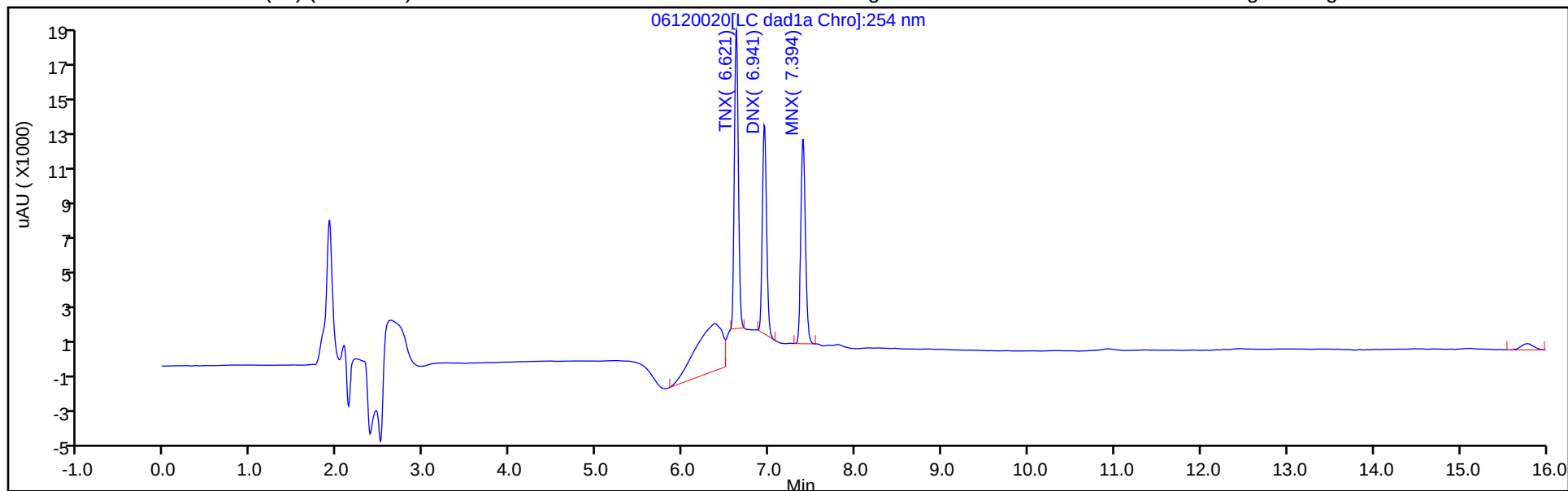
ALS Bottle#: 9

Method: 8330_X3

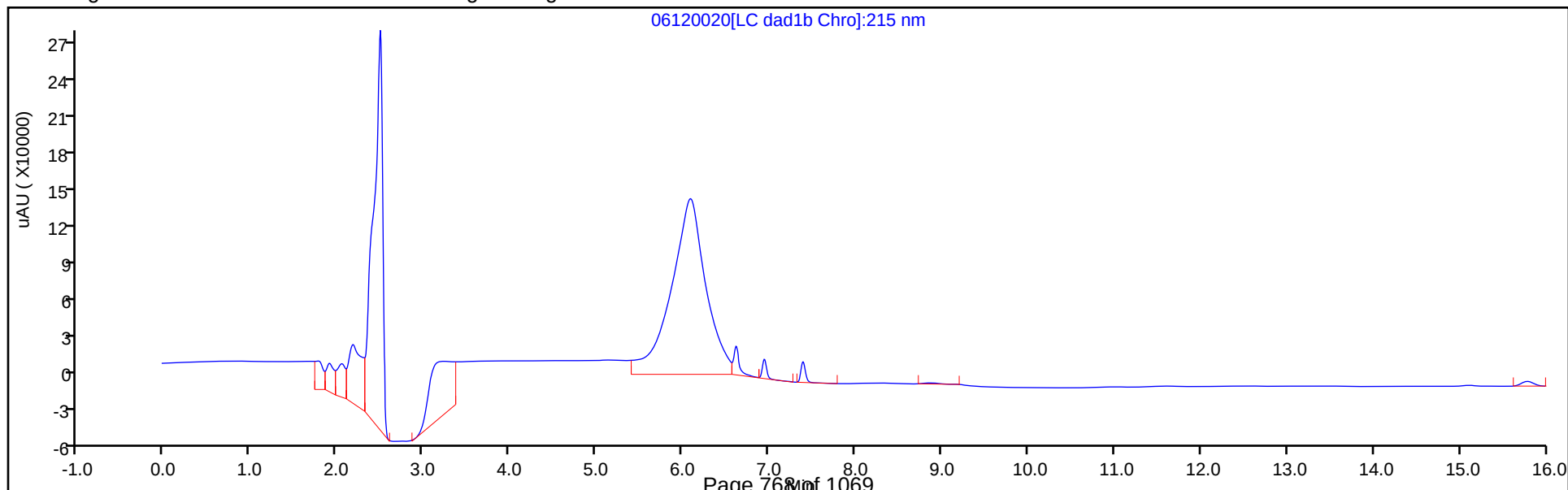
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

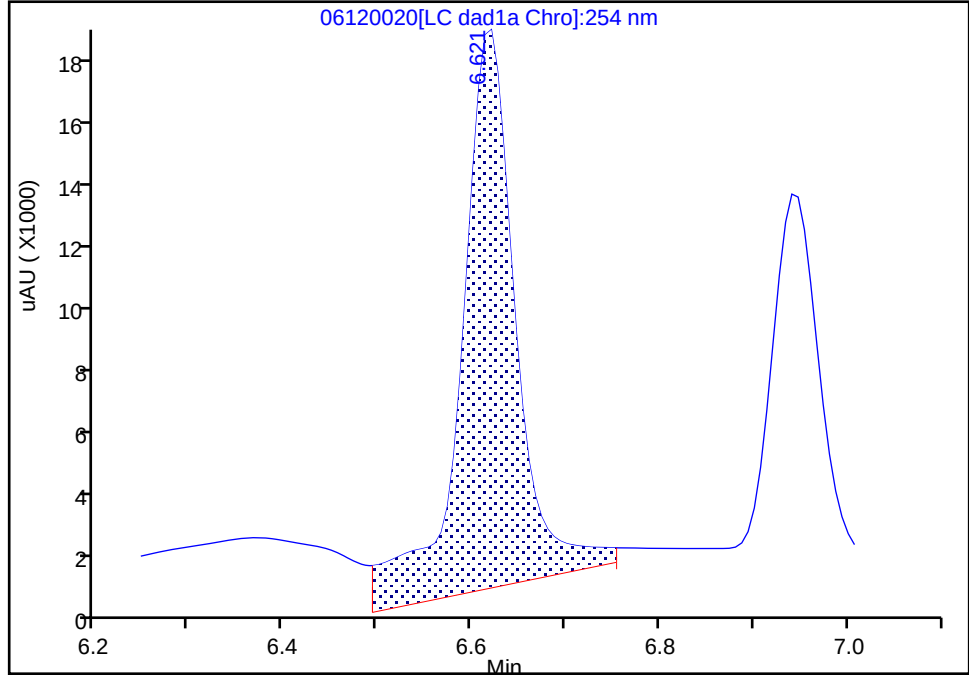
Data File: \\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120020.d
Injection Date: 12-Jun-2020 18:25:30 Instrument ID: CHHPLC_X3
Lims ID: CCV DMT
Client ID:
Operator ID: JZ ALS Bottle#: 9 Worklist Smp#: 20
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

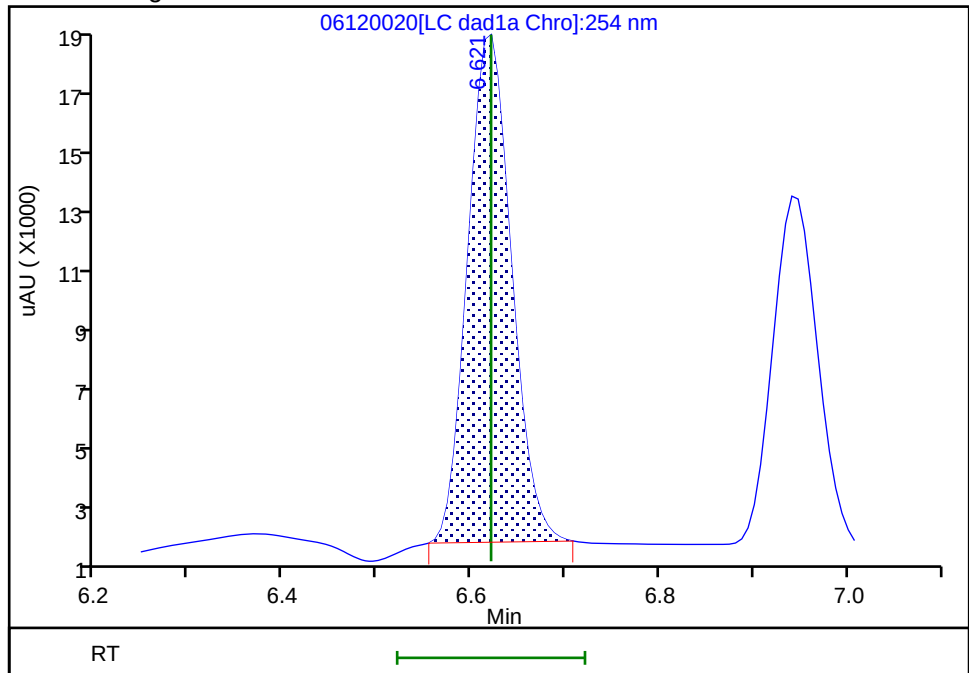
RT: 6.62
Area: 70664
Amount: 0.324730
Amount Units: ug/mL

Processing Integration Results



RT: 6.62
Area: 51887
Amount: 0.238442
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 16-Jun-2020 14:03:23
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

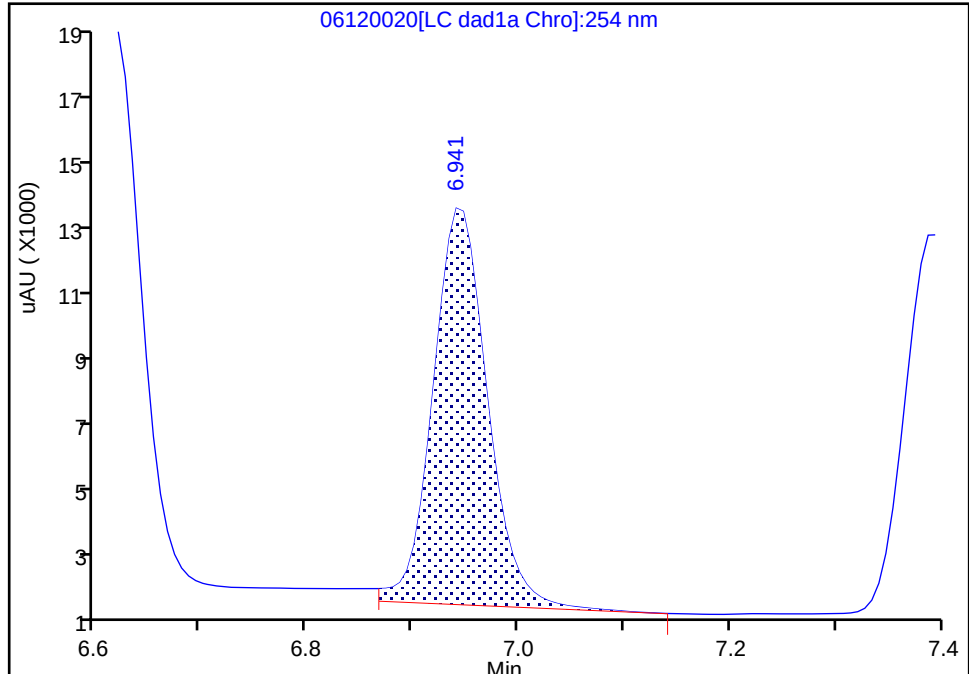
Data File: \\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120020.d
Injection Date: 12-Jun-2020 18:25:30 Instrument ID: CHHPLC_X3
Lims ID: CCV DMT
Client ID:
Operator ID: JZ ALS Bottle#: 9 Worklist Smp#: 20
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

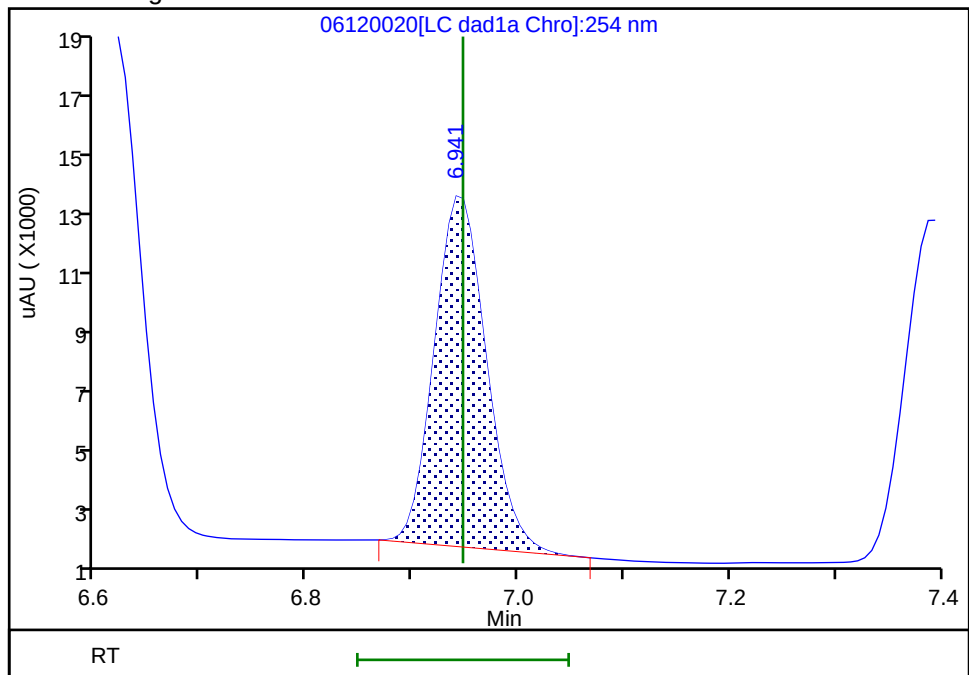
RT: 6.94
Area: 41158
Amount: 0.269133
Amount Units: ug/mL

Processing Integration Results



RT: 6.94
Area: 38511
Amount: 0.251824
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 16-Jun-2020 14:03:28
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 280-496861/1-A
 Matrix: Water Lab File ID: 06120010.D
 Analysis Method: 8330A Date Collected: _____
 Extraction Method: 3535 Date Extracted: 06/01/2020 10:20
 Sample wt/vol: 500 (mL) Date Analyzed: 06/12/2020 14:35
 Con. Extract Vol.: 5 (mL) Dilution Factor: 1
 Injection Volume: 100 (uL) GC Column: UltraCarb5uODS ID: 4.6 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 498536 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.20	U	0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051
88-72-2	2-Nitrotoluene	0.20	U	0.21	0.20	0.086
99-08-1	3-Nitrotoluene	0.40	U	0.40	0.40	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058
99-99-0	4-Nitrotoluene	0.40	U	0.41	0.40	0.10
2691-41-0	HMX	0.20	U	0.21	0.20	0.088
5755-27-1	MNX	0.40	U M	2.0	0.40	0.15
98-95-3	Nitrobenzene	0.20	U	0.21	0.20	0.091
121-82-4	RDX	0.20	U	0.21	0.20	0.052
479-45-8	Tetryl	0.10	U	0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	94		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120010.D
 Lims ID: MB 280-496861/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 12-Jun-2020 14:35:32 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: MB 280-496861/1-
 Misc. Info.: 280-0092367-010
 Operator ID: JZ Instrument ID: CHHPLC_X3
 Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 16-Jun-2020 18:11:22 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX1024

First Level Reviewer: zhangji

Date: 12-Jun-2020 15:01:23

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		6.576				ND	U
2 TNX	1		6.621				ND	
3 HMX	1		6.704				ND	
4 2,4-diamino-6-nitrotoluene	1		6.762				ND	
5 DNX	1		6.947				ND	
6 MNX	1		7.394				ND	U
7 RDX	1		7.797				ND	
8 2,4,6-Trinitrophenol	1		8.111				ND	
\$ 9 1,2-Dinitrobenzene	1	8.744	8.777	-0.033	25990	0.2000	0.1880	
10 1,3,5-Trinitrobenzene	1		8.957				ND	
11 1,3-Dinitrobenzene	1		9.617				ND	
12 Nitrobenzene	1		10.004				ND	
13 3,5-Dinitroaniline	1		10.215				ND	
14 Tetryl	1		10.330				ND	
15 Nitroglycerin	2		10.850				ND	
16 2,4,6-Trinitrotoluene	1		11.310				ND	
17 4-Amino-2,6-dinitrotoluene	1		11.484				ND	
18 2-Amino-4,6-dinitrotoluene	1		11.784				ND	
19 2,6-Dinitrotoluene	1		11.924				ND	
20 2,4-Dinitrotoluene	1		12.124				ND	
21 o-Nitrotoluene	1		12.977				ND	
22 p-Nitrotoluene	1		13.424				ND	
23 m-Nitrotoluene	1	14.017	14.030	-0.013	1355		0.009474	
24 PETN	2		15.164				ND	
25 Ammonium Picrate	1		0.000				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Report Date: 16-Jun-2020 18:11:22

Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120010.d

Injection Date: 12-Jun-2020 14:35:32

Instrument ID: CHHPLC_X3

Operator ID: JZ

Lims ID: MB 280-496861/1-A

Worklist Smp#: 10

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

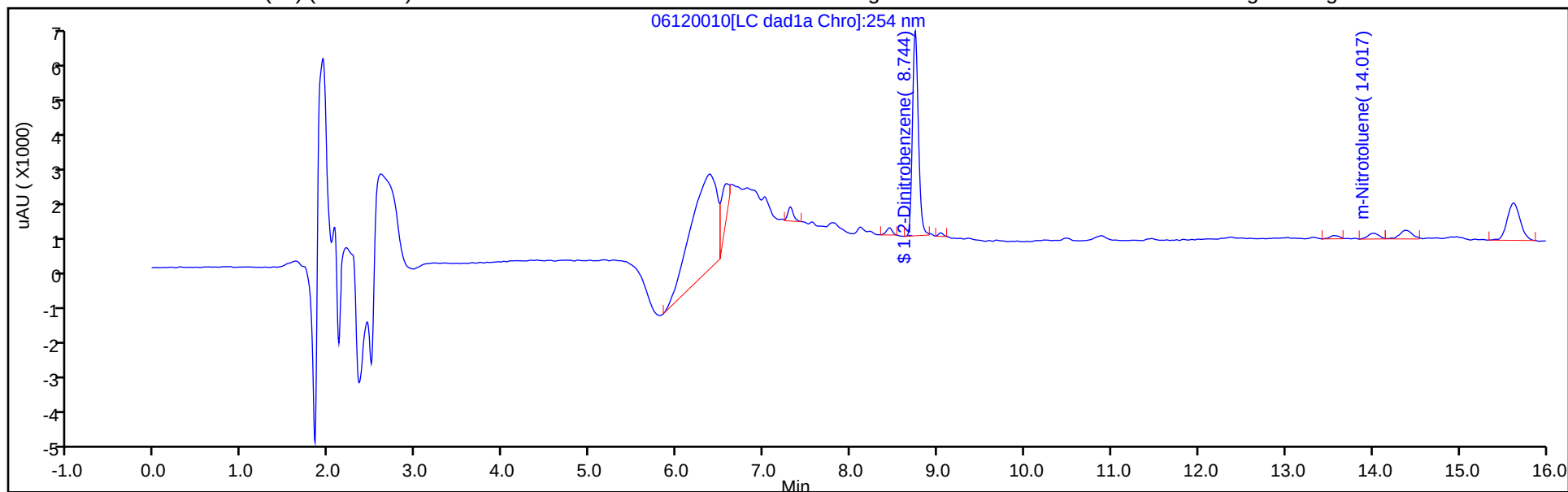
ALS Bottle#: 10

Method: 8330_X3

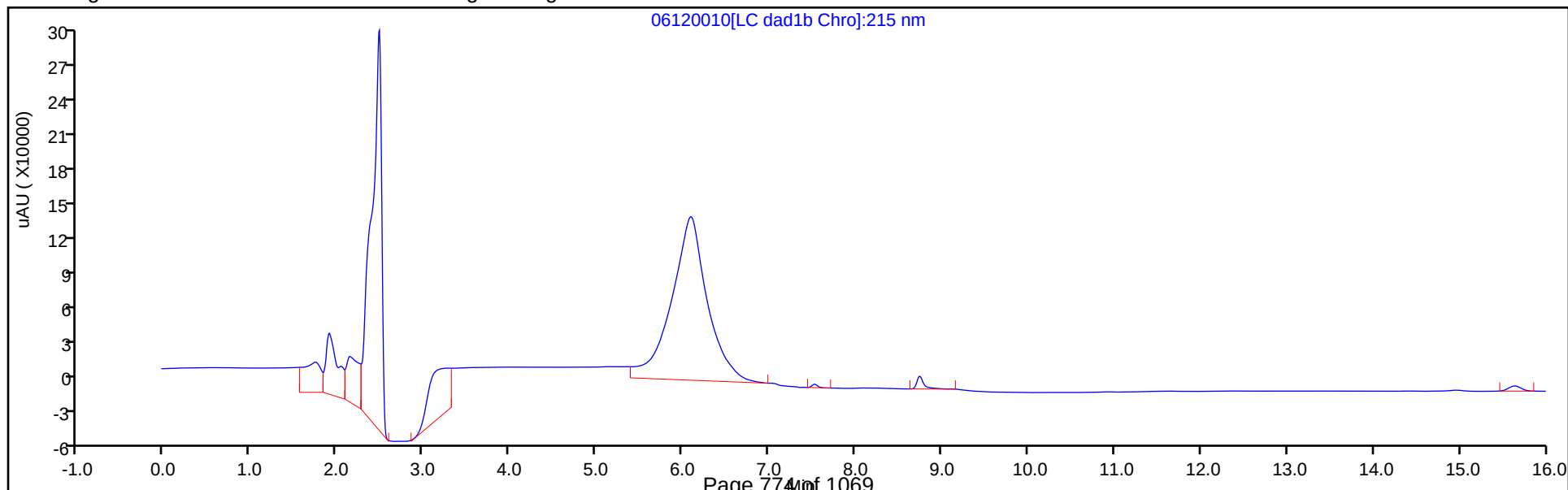
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\06120010.D
Lims ID: MB 280-496861/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-Jun-2020 14:35:32 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: MB 280-496861/1-
Misc. Info.: 280-0092367-010
Operator ID: JZ Instrument ID: CHHPLC_X3
Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200612-92367.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 16-Jun-2020 18:11:22 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1024

First Level Reviewer: zhangji

Date: 12-Jun-2020 15:01:23

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,2-Dinitrobenzene	0.2000	0.1880	94.02

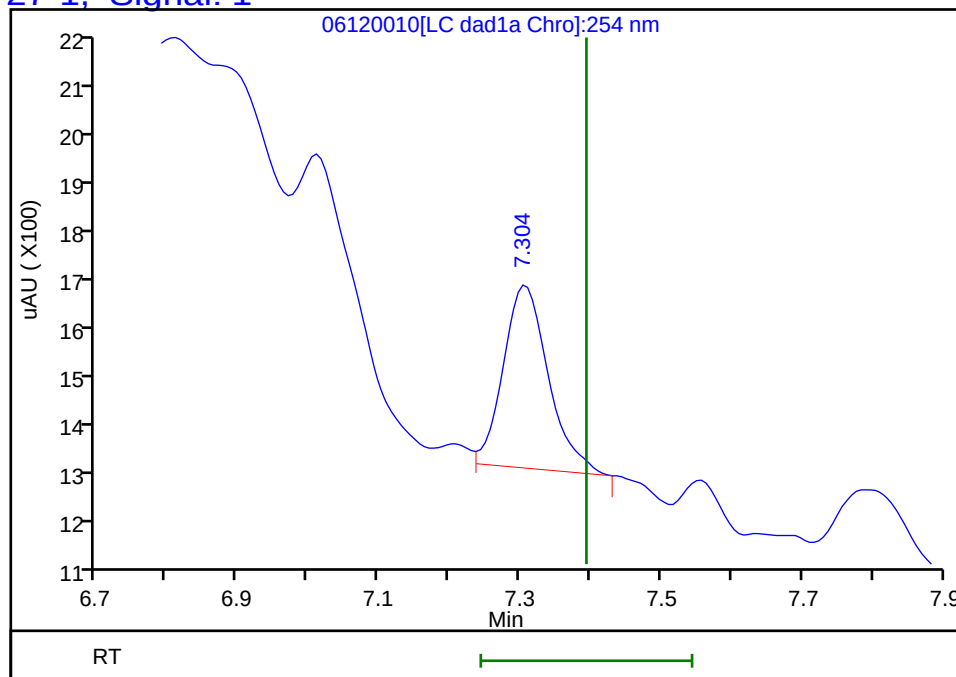
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200612-92367.b\06120010.d
Injection Date: 12-Jun-2020 14:35:32 Instrument ID: CHHPLC_X3
Lims ID: MB 280-496861/1-A
Client ID:
Operator ID: JZ ALS Bottle#: 10 Worklist Smp#: 10
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 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.30
Response: 1673
Amount: 0.010552



Reviewer: zhangji, 12-Jun-2020 15:02:50

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins TestAmerica, Denver</u>	Job No.: <u>280-137048-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 280-496861/2-A</u>
Matrix: <u>Water</u>	Lab File ID: <u>06110023.D</u>
Analysis Method: <u>8330A</u>	Date Collected: _____
Extraction Method: <u>3535</u>	Date Extracted: <u>06/01/2020 10:20</u>
Sample wt/vol: <u>500 (mL)</u>	Date Analyzed: <u>06/11/2020 21:06</u>
Con. Extract Vol.: <u>5 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>100 (uL)</u>	GC Column: <u>UltraCarb5uODS</u> ID: <u>4.6 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>498360</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	2.11		0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	2.00		0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	2.09		0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	1.85		0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	2.03		0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	1.81		0.11	0.10	0.051
88-72-2	2-Nitrotoluene	1.62		0.21	0.20	0.086
99-08-1	3-Nitrotoluene	1.80		0.40	0.40	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.68		0.15	0.12	0.058
99-99-0	4-Nitrotoluene	1.58		0.41	0.40	0.10
2691-41-0	HMX	2.00		0.21	0.20	0.088
98-95-3	Nitrobenzene	1.88		0.21	0.20	0.091
121-82-4	RDX	1.96		0.21	0.20	0.052
479-45-8	Tetryl	1.90		0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	95		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110023.D
 Lims ID: LCS 280-496861/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 11-Jun-2020 21:06:40 ALS Bottle#: 23 Worklist Smp#: 23
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 280-496861/2
 Misc. Info.: 280-0092324-023
 Operator ID: JZ Instrument ID: CHHPLC_X3
 Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 12-Jun-2020 12:39:47 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX1034

First Level Reviewer: zhangji

Date: 12-Jun-2020 11:09:18

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.707	6.696	0.011	17189	0.2000	0.2000	
7 RDX	1	7.780	7.776	0.004	22830	0.2000	0.1958	
8 2,4,6-Trinitrophenol	1	8.080	8.069	0.011	18741	0.2000	0.2201	
\$ 9 1,2-Dinitrobenzene	1	8.747	8.743	0.004	26328	0.2000	0.1905	
10 1,3,5-Trinitrobenzene	1	8.927	8.916	0.011	48565	0.2000	0.2109	
11 1,3-Dinitrobenzene	1	9.567	9.569	-0.002	61293	0.2000	0.1999	
12 Nitrobenzene	1	9.947	9.949	-0.002	37701	0.2000	0.1881	
14 Tetryl	1	10.254	10.256	-0.002	33551	0.2000	0.1895	
15 Nitroglycerin	2	10.767	10.762	0.005	135979	2.00	2.00	
16 2,4,6-Trinitrotoluene	1	11.234	11.222	0.012	42672	0.2000	0.2091	
17 4-Amino-2,6-dinitrotoluene	1	11.387	11.376	0.011	28742	0.2000	0.1677	
18 2-Amino-4,6-dinitrotoluene	1	11.680	11.662	0.018	36618	0.2000	0.1805	
19 2,6-Dinitrotoluene	1	11.827	11.809	0.018	30316	0.2000	0.2028	
20 2,4-Dinitrotoluene	1	12.027	12.009	0.018	56258	0.2000	0.1853	
21 o-Nitrotoluene	1	12.860	12.842	0.018	21869	0.2000	0.1619	
22 p-Nitrotoluene	1	13.300	13.276	0.024	17890	0.2000	0.1583	
23 m-Nitrotoluene	1	13.894	13.862	0.032	25740	0.2000	0.1800	
24 PETN	2	14.987	14.969	0.018	149723	2.00	1.90	

Report Date: 12-Jun-2020 12:39:54

Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110023.d

Injection Date: 11-Jun-2020 21:06:40

Instrument ID: CHHPLC_X3

Operator ID: JZ

Lims ID: LCS 280-496861/2-A

Worklist Smp#: 23

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

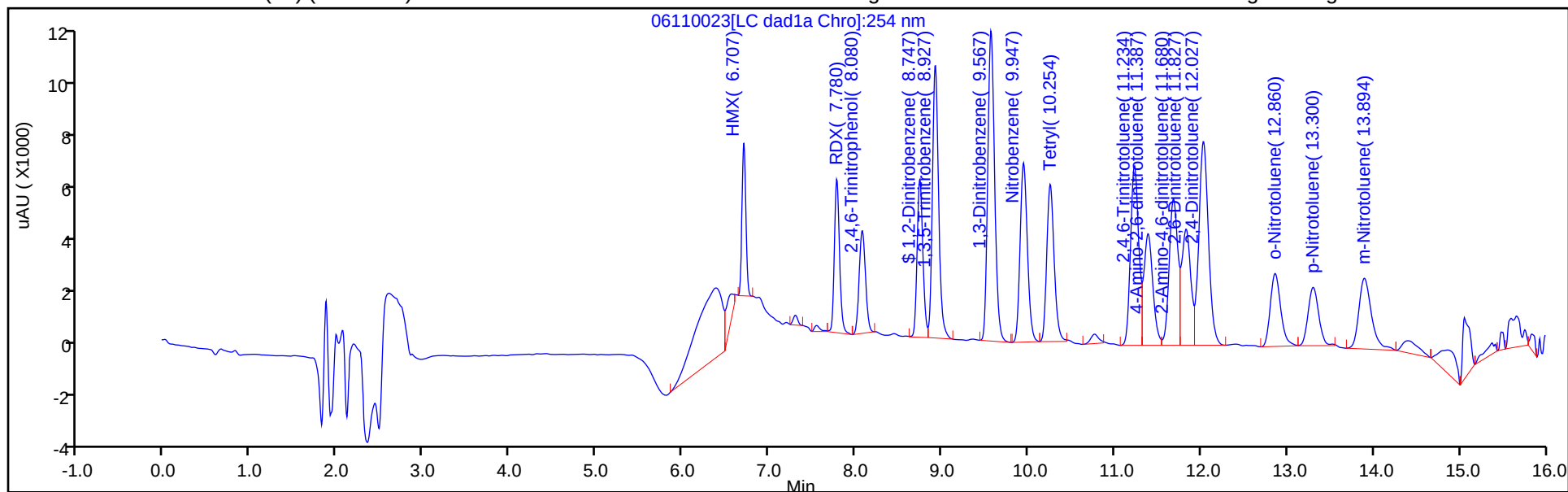
ALS Bottle#: 23

Method: 8330_X3

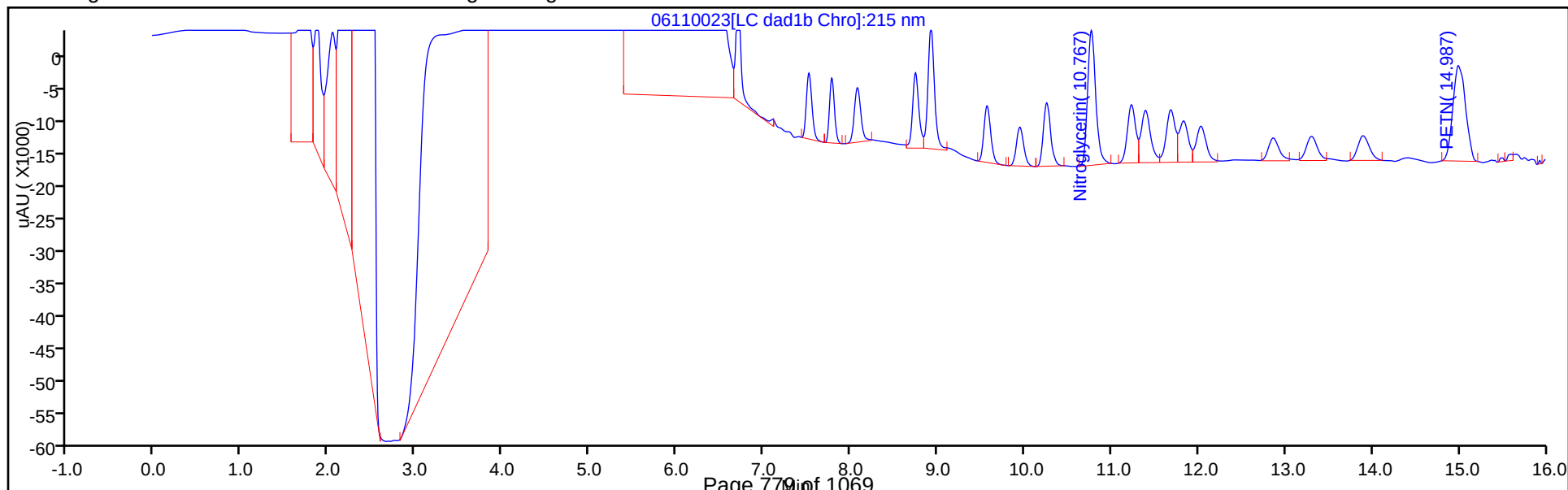
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110023.D
Lims ID: LCS 280-496861/2-A
Client ID:
Sample Type: LCS
Inject. Date: 11-Jun-2020 21:06:40 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCS 280-496861/2
Misc. Info.: 280-0092324-023
Operator ID: JZ Instrument ID: CHHPLC_X3
Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 12-Jun-2020 12:39:47 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1034

First Level Reviewer: zhangji

Date: 12-Jun-2020 11:09:18

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,2-Dinitrobenzene	0.2000	0.1905	95.24

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 280-496861/4-A

Matrix: Water Lab File ID: 06110025.D

Analysis Method: 8330A Date Collected: _____

Extraction Method: 3535 Date Extracted: 06/01/2020 10:20

Sample wt/vol: 500 (mL) Date Analyzed: 06/11/2020 21:52

Con. Extract Vol.: 5 (mL) Dilution Factor: 1

Injection Volume: 100 (uL) GC Column: UltraCarb5uODS ID: 4.6 (mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 498360 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
5755-27-1	MNX	2.11	M	2.0	0.40	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	95		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110025.D
 Lims ID: LCS 280-496861/4-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 11-Jun-2020 21:52:37 ALS Bottle#: 25 Worklist Smp#: 25
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 280-496861/4
 Misc. Info.: 280-0092324-025
 Operator ID: JZ Instrument ID: CHHPLC_X3
 Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 12-Jun-2020 12:39:47 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX1034

First Level Reviewer: zhangji

Date: 12-Jun-2020 11:05:11

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.612	6.627	-0.015	39466	0.2002	0.1814	M
5 DNX	1	6.932	6.954	-0.022	29727	0.2002	0.1944	M
6 MNX	1	7.378	7.407	-0.029	33492	0.2334	0.2112	M
\$ 9 1,2-Dinitrobenzene	1	8.745	8.743	0.002	26286	0.2000	0.1902	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 12-Jun-2020 12:39:54

Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110025.d

Injection Date: 11-Jun-2020 21:52:37

Instrument ID: CHHPLC_X3

Operator ID: JZ

Lims ID: LCS 280-496861/4-A

Worklist Smp#: 25

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

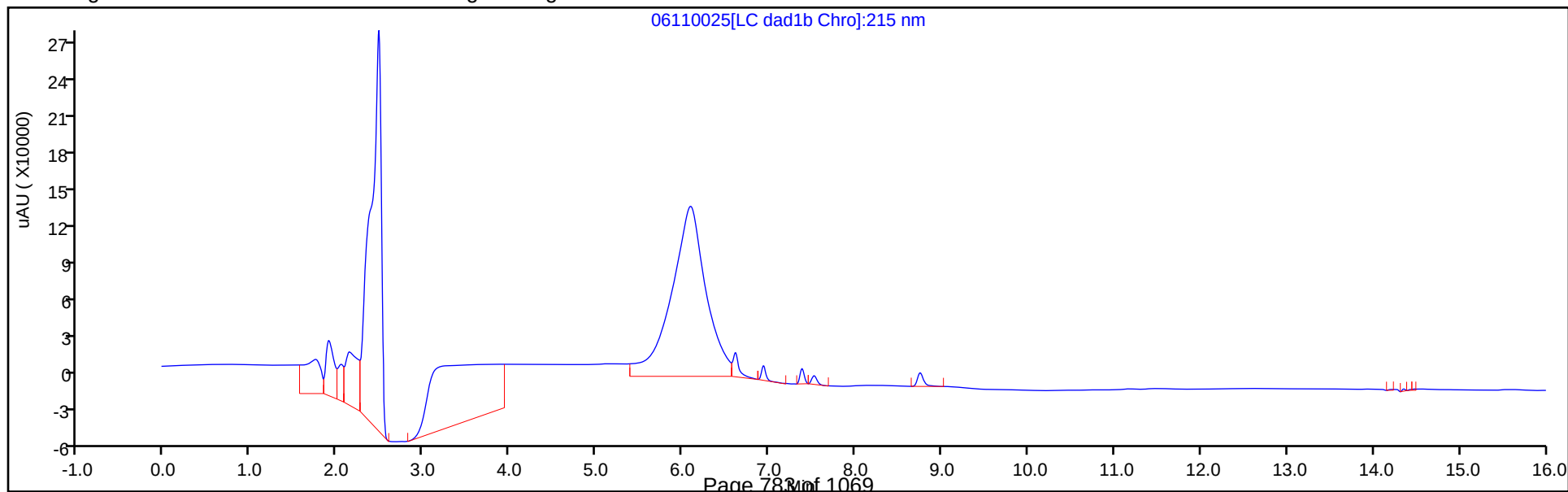
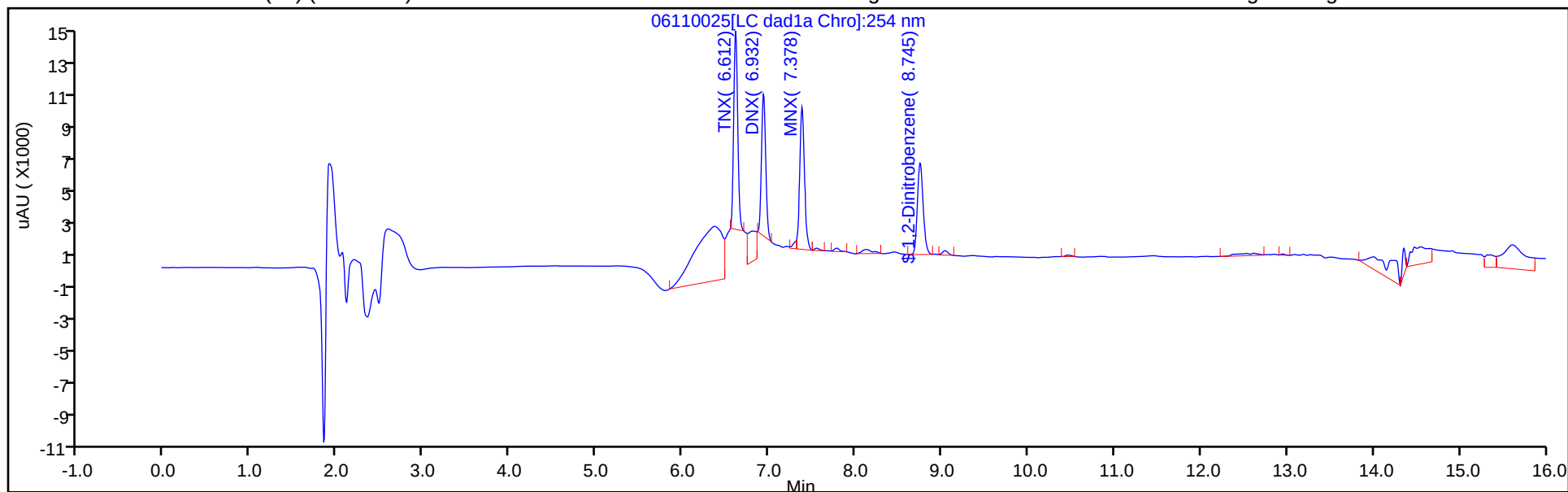
ALS Bottle#: 25

Method: 8330_X3

Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110025.D
Lims ID: LCS 280-496861/4-A
Client ID:
Sample Type: LCS
Inject. Date: 11-Jun-2020 21:52:37 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCS 280-496861/4
Misc. Info.: 280-0092324-025
Operator ID: JZ Instrument ID: CHHPLC_X3
Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 12-Jun-2020 12:39:47 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1034

First Level Reviewer: zhangji

Date: 12-Jun-2020 11:05:11

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,2-Dinitrobenzene	0.2000	0.1902	95.09

Eurofins TestAmerica, Denver

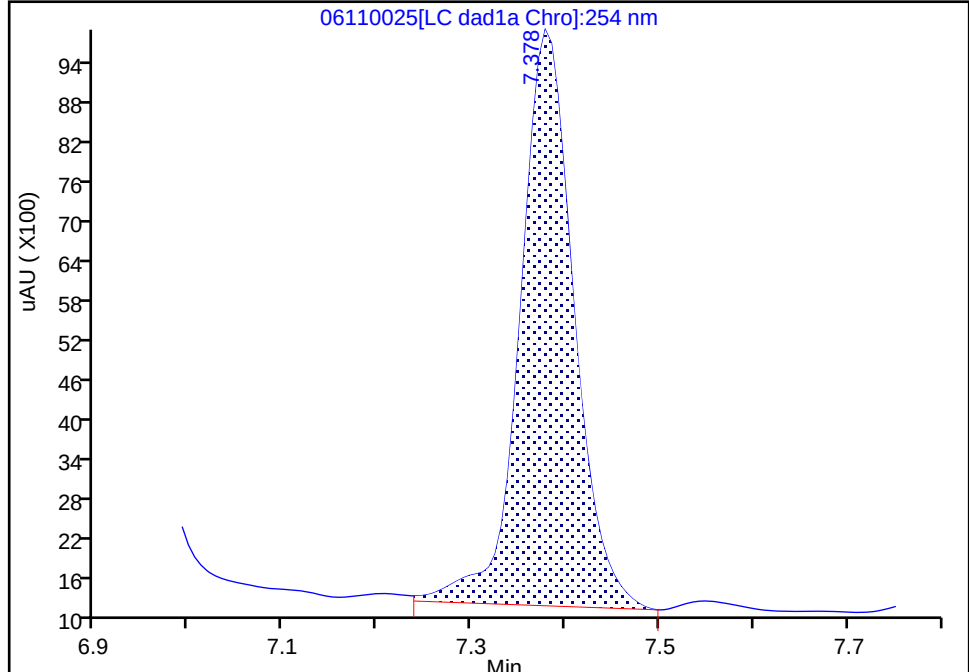
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110025.d
Injection Date: 11-Jun-2020 21:52:37 Instrument ID: CHHPLC_X3
Lims ID: LCS 280-496861/4-A
Client ID:
Operator ID: JZ ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

6 MNX, CAS: 5755-27-1

Signal: 1

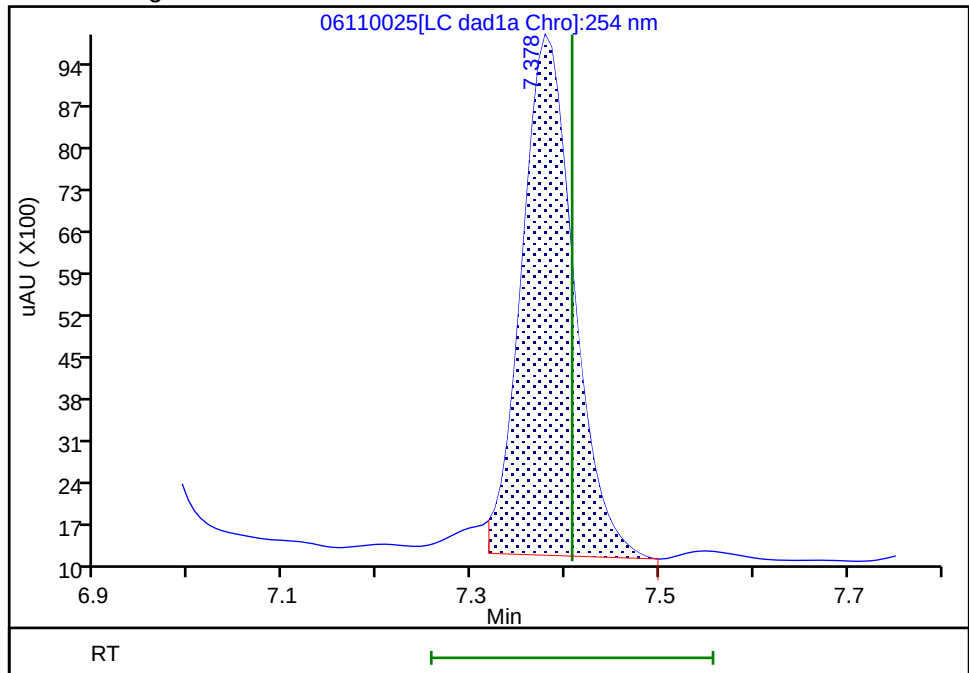
RT: 7.38
Area: 34829
Amount: 0.219680
Amount Units: ug/mL

Processing Integration Results



RT: 7.38
Area: 33492
Amount: 0.211247
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:05:08
Audit Action: Split an Integrated Peak

Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins TestAmerica, Denver</u>	Job No.: <u>280-137048-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 280-496861/3-A</u>
Matrix: <u>Water</u>	Lab File ID: <u>06110024.D</u>
Analysis Method: <u>8330A</u>	Date Collected: _____
Extraction Method: <u>3535</u>	Date Extracted: <u>06/01/2020 10:20</u>
Sample wt/vol: <u>500 (mL)</u>	Date Analyzed: <u>06/11/2020 21:29</u>
Con. Extract Vol.: <u>5 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>100 (uL)</u>	GC Column: <u>UltraCarb5uODS</u> ID: <u>4.6 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>498360</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	2.18		0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	2.05		0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	2.11		0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	1.93		0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	2.03		0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	1.91		0.11	0.10	0.051
88-72-2	2-Nitrotoluene	1.74		0.21	0.20	0.086
99-08-1	3-Nitrotoluene	1.94		0.40	0.40	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.75		0.15	0.12	0.058
99-99-0	4-Nitrotoluene	1.83		0.41	0.40	0.10
2691-41-0	HMX	2.03	M	0.21	0.20	0.088
98-95-3	Nitrobenzene	1.97		0.21	0.20	0.091
121-82-4	RDX	2.03		0.21	0.20	0.052
479-45-8	Tetryl	1.96		0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	96		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110024.D
 Lims ID: LCSD 280-496861/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 11-Jun-2020 21:29:42 ALS Bottle#: 24 Worklist Smp#: 24
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: LCSD 280-496861/
 Misc. Info.: 280-0092324-024
 Operator ID: JZ Instrument ID: CHHPLC_X3
 Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 12-Jun-2020 12:39:47 Calib Date: 18-Mar-2020 14:39:27
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX1034

First Level Reviewer: zhangji

Date: 12-Jun-2020 11:09:31

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.706	6.696	0.010	17462	0.2000	0.2031	M
7 RDX	1	7.779	7.776	0.003	23685	0.2000	0.2031	
8 2,4,6-Trinitrophenol	1	8.073	8.069	0.004	18273	0.2000	0.2146	
\$ 9 1,2-Dinitrobenzene	1	8.746	8.743	0.003	26467	0.2000	0.1915	
10 1,3,5-Trinitrobenzene	1	8.926	8.916	0.010	50275	0.2000	0.2183	
11 1,3-Dinitrobenzene	1	9.572	9.569	0.003	63021	0.2000	0.2055	
12 Nitrobenzene	1	9.952	9.949	0.003	39524	0.2000	0.1972	
14 Tetryl	1	10.259	10.256	0.003	34749	0.2000	0.1963	
15 Nitroglycerin	2	10.772	10.762	0.010	139668	2.00	2.05	
16 2,4,6-Trinitrotoluene	1	11.239	11.222	0.017	43107	0.2000	0.2113	
17 4-Amino-2,6-dinitrotoluene	1	11.392	11.376	0.016	30114	0.2000	0.1753	
18 2-Amino-4,6-dinitrotoluene	1	11.686	11.662	0.024	38708	0.2000	0.1909	
19 2,6-Dinitrotoluene	1	11.832	11.809	0.023	30285	0.2000	0.2026	
20 2,4-Dinitrotoluene	1	12.032	12.009	0.023	58556	0.2000	0.1929	
21 o-Nitrotoluene	1	12.859	12.842	0.017	23447	0.2000	0.1736	
22 p-Nitrotoluene	1	13.292	13.276	0.016	20732	0.2000	0.1835	
23 m-Nitrotoluene	1	13.886	13.862	0.024	27707	0.2000	0.1937	
24 PETN	2	14.992	14.969	0.023	154292	2.00	1.96	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 12-Jun-2020 12:39:54

Chrom Revision: 2.3 10-Jun-2020 22:46:48

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110024.d

Injection Date: 11-Jun-2020 21:29:42

Instrument ID: CHHPLC_X3

Operator ID: JZ

Lims ID: LCSD 280-496861/3-A

Worklist Smp#: 24

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

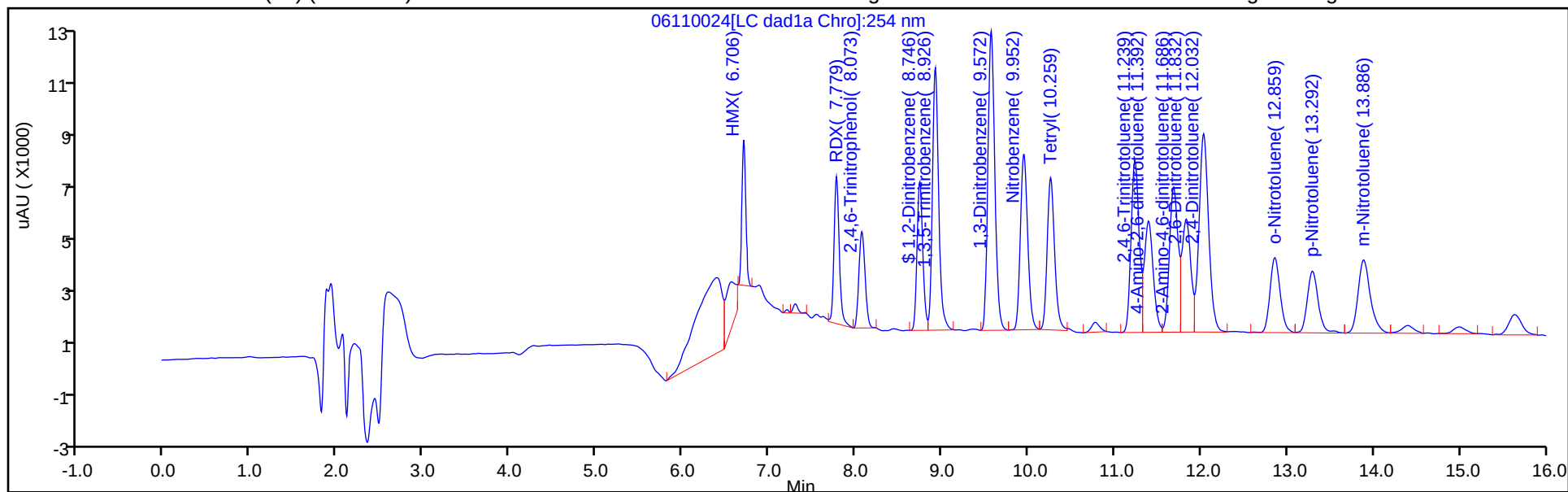
ALS Bottle#: 24

Method: 8330_X3

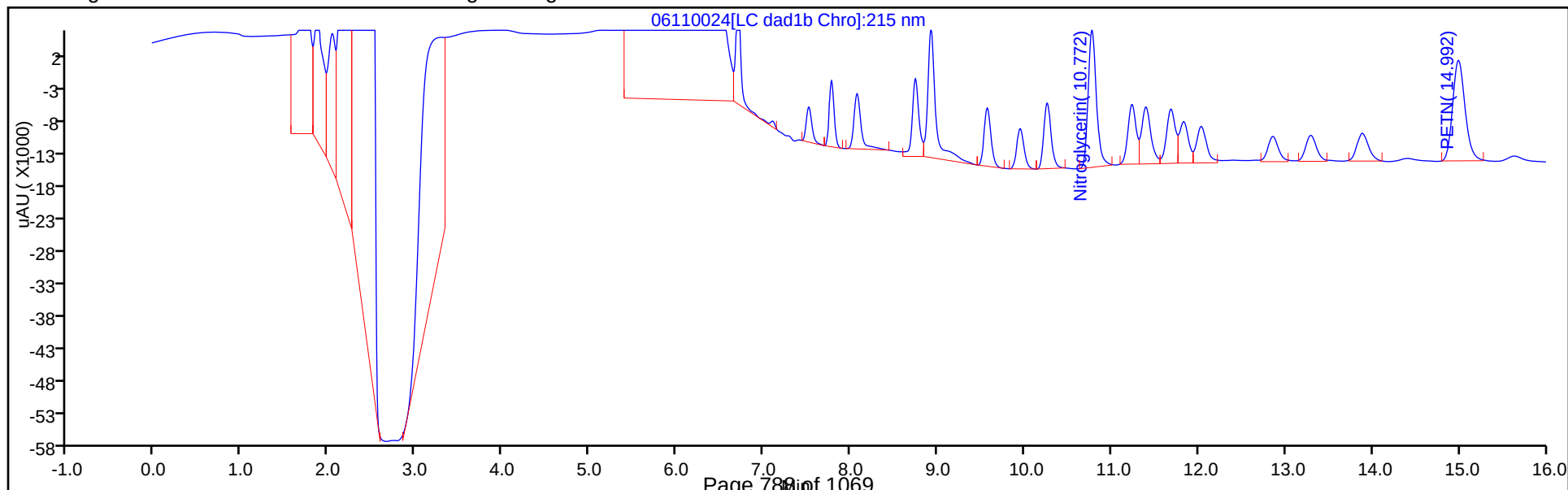
Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\06110024.D
Lims ID: LCSD 280-496861/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 11-Jun-2020 21:29:42 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 280-496861/
Misc. Info.: 280-0092324-024
Operator ID: JZ Instrument ID: CHHPLC_X3
Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200611-92324.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 12-Jun-2020 12:39:47 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1034

First Level Reviewer: zhangji

Date: 12-Jun-2020 11:09:31

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,2-Dinitrobenzene	0.2000	0.1915	95.75

Eurofins TestAmerica, Denver

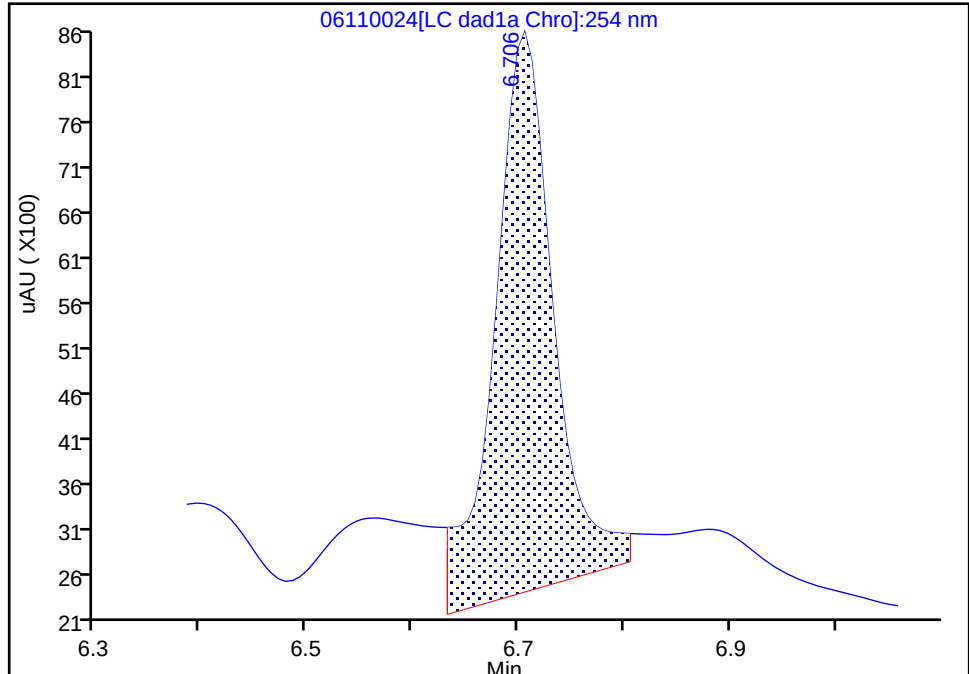
Data File: \\chromfs\denver\chromdata\chhplc_x\20200611-92324.b\06110024.d
Injection Date: 11-Jun-2020 21:29:42 Instrument ID: CHHPLC_X3
Lims ID: LCSD 280-496861/3-A
Client ID:
Operator ID: JZ ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

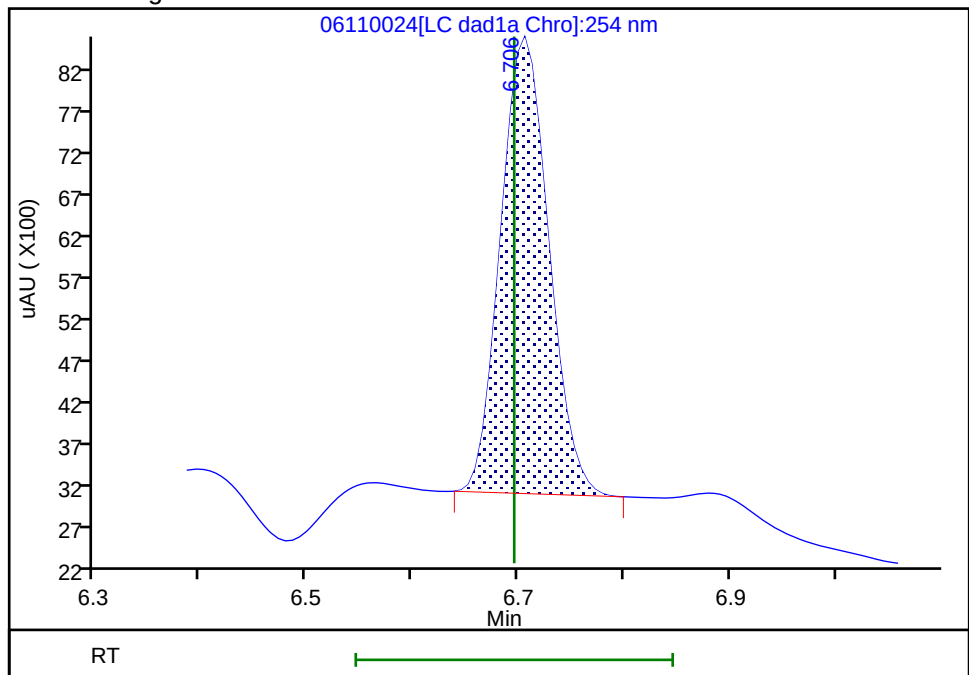
RT: 6.71
Area: 24122
Amount: 0.280612
Amount Units: ug/mL

Processing Integration Results



RT: 6.71
Area: 17462
Amount: 0.203136
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 12-Jun-2020 11:09:27

Audit Action: Manually Integrated

Audit Reason: Baseline

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-137048-1

SDG No.:

Instrument ID: CHHPLC_X3

Start Date: 03/04/2020 14:07

Analysis Batch Number: 487658

End Date: 03/05/2020 00:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 280-487658/7		03/04/2020 14:07	1		UltraCarb5uODS 4.6 (mm)
IC 280-487658/8		03/04/2020 14:30	1		UltraCarb5uODS 4.6 (mm)
IC 280-487658/9		03/04/2020 14:53	1		UltraCarb5uODS 4.6 (mm)
IC 280-487658/10		03/04/2020 15:16	1		UltraCarb5uODS 4.6 (mm)
IC 280-487658/11		03/04/2020 15:39	1		UltraCarb5uODS 4.6 (mm)
IC 280-487658/12		03/04/2020 16:01	1		UltraCarb5uODS 4.6 (mm)
IC 280-487658/13		03/04/2020 16:24	1		UltraCarb5uODS 4.6 (mm)
IC 280-487658/14		03/04/2020 16:47	1		UltraCarb5uODS 4.6 (mm)
ICV 280-487658/15		03/04/2020 17:10	1		UltraCarb5uODS 4.6 (mm)
IC 280-487658/16		03/04/2020 17:33	1		UltraCarb5uODS 4.6 (mm)
IC 280-487658/17		03/04/2020 17:56	1		UltraCarb5uODS 4.6 (mm)
IC 280-487658/18		03/04/2020 18:19	1		UltraCarb5uODS 4.6 (mm)
IC 280-487658/19		03/04/2020 18:42	1		UltraCarb5uODS 4.6 (mm)
IC 280-487658/20		03/04/2020 19:05	1		UltraCarb5uODS 4.6 (mm)
IC 280-487658/21		03/04/2020 19:28	1		UltraCarb5uODS 4.6 (mm)
IC 280-487658/22		03/04/2020 19:51	1		UltraCarb5uODS 4.6 (mm)
IC 280-487658/23		03/04/2020 20:14	1		UltraCarb5uODS 4.6 (mm)
ICV 280-487658/24		03/04/2020 20:37	1		UltraCarb5uODS 4.6 (mm)
IC 280-487658/25		03/04/2020 21:00	1	03040025.D	UltraCarb5uODS 4.6 (mm)
IC 280-487658/26		03/04/2020 21:23	1	03040026.D	UltraCarb5uODS 4.6 (mm)
IC 280-487658/27		03/04/2020 21:45	1	03040027.D	UltraCarb5uODS 4.6 (mm)
IC 280-487658/28		03/04/2020 22:09	1	03040028.D	UltraCarb5uODS 4.6 (mm)
IC 280-487658/29		03/04/2020 22:31	1	03040029.D	UltraCarb5uODS 4.6 (mm)
IC 280-487658/30		03/04/2020 22:54	1	03040030.D	UltraCarb5uODS 4.6 (mm)
IC 280-487658/31		03/04/2020 23:17	1	03040031.D	UltraCarb5uODS 4.6 (mm)
IC 280-487658/32		03/04/2020 23:40	1	03040032.D	UltraCarb5uODS 4.6 (mm)
ICV 280-487658/33		03/05/2020 00:03	1	03040033.D	UltraCarb5uODS 4.6 (mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Start Date: 03/18/2020 11:35Analysis Batch Number: 489145 End Date: 03/18/2020 15:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 280-489145/7		03/18/2020 11:35	1	03180007.D	UltraCarb5uODS 4.6 (mm)
IC 280-489145/8		03/18/2020 11:58	1	03180008.D	UltraCarb5uODS 4.6 (mm)
IC 280-489145/9		03/18/2020 12:21	1	03180009.D	UltraCarb5uODS 4.6 (mm)
IC 280-489145/10		03/18/2020 12:44	1	03180010.D	UltraCarb5uODS 4.6 (mm)
IC 280-489145/11		03/18/2020 13:07	1	03180011.D	UltraCarb5uODS 4.6 (mm)
IC 280-489145/12		03/18/2020 13:30	1	03180012.D	UltraCarb5uODS 4.6 (mm)
IC 280-489145/13		03/18/2020 13:53	1	03180013.D	UltraCarb5uODS 4.6 (mm)
IC 280-489145/14		03/18/2020 14:16	1	03180014.D	UltraCarb5uODS 4.6 (mm)
IC 280-489145/15		03/18/2020 14:39	1	03180015.D	UltraCarb5uODS 4.6 (mm)
ICV 280-489145/16		03/18/2020 15:02	1	03180016.D	UltraCarb5uODS 4.6 (mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, DenverJob No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNAStart Date: 05/14/2020 16:16Analysis Batch Number: 494886End Date: 05/15/2020 20:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 280-494886/7		05/14/2020 16:16	1	05140007.D	Luna-phenylhex 4.6 (mm)
IC 280-494886/8		05/14/2020 16:51	1	05140008.D	Luna-phenylhex 4.6 (mm)
IC 280-494886/9		05/14/2020 17:26	1	05140009.D	Luna-phenylhex 4.6 (mm)
IC 280-494886/10		05/14/2020 18:01	1	05140010.D	Luna-phenylhex 4.6 (mm)
IC 280-494886/11		05/14/2020 18:36	1	05140011.D	Luna-phenylhex 4.6 (mm)
IC 280-494886/12		05/14/2020 19:11	1	05140012.D	Luna-phenylhex 4.6 (mm)
IC 280-494886/13		05/14/2020 19:46	1	05140013.D	Luna-phenylhex 4.6 (mm)
IC 280-494886/14		05/14/2020 20:21	1	05140014.D	Luna-phenylhex 4.6 (mm)
IC 280-494886/15		05/14/2020 20:56	1	05140015.D	Luna-phenylhex 4.6 (mm)
ICV 280-494886/16		05/14/2020 21:31	1	05140016.D	Luna-phenylhex 4.6 (mm)
IC 280-494886/17		05/14/2020 22:06	1	05140017.D	Luna-phenylhex 4.6 (mm)
IC 280-494886/18		05/14/2020 22:41	1	05140018.D	Luna-phenylhex 4.6 (mm)
IC 280-494886/19		05/14/2020 23:16	1	05140019.D	Luna-phenylhex 4.6 (mm)
IC 280-494886/20		05/14/2020 23:51	1	05140020.D	Luna-phenylhex 4.6 (mm)
IC 280-494886/21		05/15/2020 00:26	1	05140021.D	Luna-phenylhex 4.6 (mm)
IC 280-494886/22		05/15/2020 01:01	1	05140022.D	Luna-phenylhex 4.6 (mm)
IC 280-494886/23		05/15/2020 01:36	1	05140023.D	Luna-phenylhex 4.6 (mm)
IC 280-494886/24		05/15/2020 02:11	1	05140024.D	Luna-phenylhex 4.6 (mm)
IC 280-494886/25		05/15/2020 02:46	1		Luna-phenylhex 4.6 (mm)
ICV 280-494886/26		05/15/2020 03:21	1	05140026.D	Luna-phenylhex 4.6 (mm)
ZZZZZ		05/15/2020 03:56	50		Luna-phenylhex 4.6 (mm)
ZZZZZ		05/15/2020 04:31	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		05/15/2020 05:06	1		Luna-phenylhex 4.6 (mm)
CCV 280-494886/30		05/15/2020 05:41	1		Luna-phenylhex 4.6 (mm)
CCV 280-494886/31		05/15/2020 06:16	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		05/15/2020 06:51	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		05/15/2020 07:26	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		05/15/2020 08:01	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		05/15/2020 08:36	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		05/15/2020 09:11	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		05/15/2020 09:46	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		05/15/2020 10:21	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		05/15/2020 10:56	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		05/15/2020 11:31	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		05/15/2020 12:06	1		Luna-phenylhex 4.6 (mm)
CCV 280-494886/42		05/15/2020 12:40	1		Luna-phenylhex 4.6 (mm)
CCV 280-494886/43		05/15/2020 13:15	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		05/15/2020 13:50	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		05/15/2020 14:25	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		05/15/2020 15:00	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		05/15/2020 15:35	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		05/15/2020 16:10	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		05/15/2020 16:45	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		05/15/2020 17:20	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		05/15/2020 17:55	1		Luna-phenylhex 4.6 (mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA Start Date: 05/14/2020 16:16Analysis Batch Number: 494886 End Date: 05/15/2020 20:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/15/2020 18:30	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		05/15/2020 19:05	1		Luna-phenylhex 4.6 (mm)
CCV 280-494886/54		05/15/2020 19:40	1		Luna-phenylhex 4.6 (mm)
CCV 280-494886/55		05/15/2020 20:15	1		Luna-phenylhex 4.6 (mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, DenverJob No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_X3Start Date: 06/11/2020 18:25Analysis Batch Number: 498360End Date: 06/12/2020 07:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-498360/16		06/11/2020 18:25	1	06110016.D	UltraCarb5uODS 4.6 (mm)
CCV 280-498360/17		06/11/2020 18:48	1	06110017.D	UltraCarb5uODS 4.6 (mm)
ZZZZZ		06/11/2020 19:11	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		06/11/2020 19:34	1		UltraCarb5uODS 4.6 (mm)
LCS 280-496861/2-A		06/11/2020 21:06	1	06110023.D	UltraCarb5uODS 4.6 (mm)
LCSD 280-496861/3-A		06/11/2020 21:29	1	06110024.D	UltraCarb5uODS 4.6 (mm)
LCS 280-496861/4-A		06/11/2020 21:52	1	06110025.D	UltraCarb5uODS 4.6 (mm)
ZZZZZ		06/11/2020 23:01	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		06/11/2020 23:24	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		06/11/2020 23:47	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		06/12/2020 00:10	1		UltraCarb5uODS 4.6 (mm)
CCV 280-498360/32		06/12/2020 00:33	1	06110032.D	UltraCarb5uODS 4.6 (mm)
CCV 280-498360/33		06/12/2020 00:56	1	06110033.D	UltraCarb5uODS 4.6 (mm)
ZZZZZ		06/12/2020 01:19	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		06/12/2020 01:42	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		06/12/2020 02:05	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		06/12/2020 02:28	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		06/12/2020 02:51	1		UltraCarb5uODS 4.6 (mm)
280-137048-1		06/12/2020 03:14	1	06110039.D	UltraCarb5uODS 4.6 (mm)
280-137048-2		06/12/2020 03:37	1	06110040.D	UltraCarb5uODS 4.6 (mm)
ZZZZZ		06/12/2020 04:00	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		06/12/2020 04:23	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		06/12/2020 04:46	1		UltraCarb5uODS 4.6 (mm)
CCV 280-498360/48		06/12/2020 06:41	1	06110048.D	UltraCarb5uODS 4.6 (mm)
CCV 280-498360/49		06/12/2020 07:04	1	06110049.D	UltraCarb5uODS 4.6 (mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, DenverJob No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_X3Start Date: 06/12/2020 13:26Analysis Batch Number: 498536End Date: 06/12/2020 18:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-498536/7		06/12/2020 13:26	1	06120007.D	UltraCarb5uODS 4.6 (mm)
CCV 280-498536/8		06/12/2020 13:49	1		UltraCarb5uODS 4.6 (mm)
CCV 280-498536/9		06/12/2020 14:12	1	06120009.D	UltraCarb5uODS 4.6 (mm)
MB 280-496861/1-A		06/12/2020 14:35	1	06120010.D	UltraCarb5uODS 4.6 (mm)
ZZZZZ		06/12/2020 14:58	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		06/12/2020 15:21	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		06/12/2020 15:44	10		UltraCarb5uODS 4.6 (mm)
ZZZZZ		06/12/2020 16:07	10		UltraCarb5uODS 4.6 (mm)
ZZZZZ		06/12/2020 16:30	10		UltraCarb5uODS 4.6 (mm)
ZZZZZ		06/12/2020 16:53	10		UltraCarb5uODS 4.6 (mm)
ZZZZZ		06/12/2020 17:16	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		06/12/2020 17:39	1		UltraCarb5uODS 4.6 (mm)
CCV 280-498536/19		06/12/2020 18:02	1	06120019.D	UltraCarb5uODS 4.6 (mm)
CCV 280-498536/20		06/12/2020 18:25	1	06120020.D	UltraCarb5uODS 4.6 (mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, DenverJob No.: 280-137048-1

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNAStart Date: 06/12/2020 17:18Analysis Batch Number: 498568End Date: 06/13/2020 10:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-498568/7		06/12/2020 17:18	1		Luna-phenylhex 4.6 (mm)
CCV 280-498568/8		06/12/2020 17:53	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		06/12/2020 18:28	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		06/12/2020 19:03	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		06/12/2020 19:38	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		06/12/2020 20:13	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		06/12/2020 20:48	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		06/12/2020 21:23	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		06/12/2020 21:58	1		Luna-phenylhex 4.6 (mm)
CCV 280-498568/16		06/12/2020 22:33	1		Luna-phenylhex 4.6 (mm)
CCV 280-498568/17		06/12/2020 23:08	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		06/12/2020 23:42	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		06/13/2020 00:17	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		06/13/2020 00:53	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		06/13/2020 01:27	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		06/13/2020 02:02	10		Luna-phenylhex 4.6 (mm)
ZZZZZ		06/13/2020 02:37	10		Luna-phenylhex 4.6 (mm)
ZZZZZ		06/13/2020 03:12	10		Luna-phenylhex 4.6 (mm)
ZZZZZ		06/13/2020 03:47	10		Luna-phenylhex 4.6 (mm)
CCV 280-498568/26		06/13/2020 04:22	1	06120026.D	Luna-phenylhex 4.6 (mm)
CCV 280-498568/27		06/13/2020 04:57	1	06120027.D	Luna-phenylhex 4.6 (mm)
280-137048-1		06/13/2020 05:32	1	06120028.D	Luna-phenylhex 4.6 (mm)
280-137048-2		06/13/2020 06:07	1	06120029.D	Luna-phenylhex 4.6 (mm)
ZZZZZ		06/13/2020 06:42	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		06/13/2020 07:17	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		06/13/2020 07:52	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		06/13/2020 08:27	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		06/13/2020 09:02	1		Luna-phenylhex 4.6 (mm)
CCV 280-498568/35		06/13/2020 09:37	1	06120035.D	Luna-phenylhex 4.6 (mm)
CCV 280-498568/36		06/13/2020 10:12	1	06120036.D	Luna-phenylhex 4.6 (mm)

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Batch Number: 496861 Batch Start Date: 06/01/20 10:20 Batch Analyst: Adams, Marisa LBatch Method: 3535 Batch End Date: 06/01/20 13:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	8330 LCS 00098	8330_OP_DMT 00008
MB 280-496861/1		3535, 8330A				500 mL	5 mL		
LCS 280-496861/2		3535, 8330A				500 mL	5 mL	0.1 mL	
LCSD 280-496861/3		3535, 8330A				500 mL	5 mL	0.1 mL	
LCS 280-496861/4		3535, 8330A				500 mL	5 mL		0.1 mL
280-137048-A-1	EW7-PM21A-3-25	3535, 8330A	T	715.9 g	251.7 g	464.2 mL	5 mL		
280-137048-A-2	EW7-PM22A-3-25	3535, 8330A	T	717.1 g	250.1 g	467 mL	5 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	8330Surrogate 00116	AnalysisComment				
MB 280-496861/1		3535, 8330A		0.1 mL					
LCS 280-496861/2		3535, 8330A		0.1 mL	8330				
LCSD 280-496861/3		3535, 8330A		0.1 mL	8330				
LCS 280-496861/4		3535, 8330A		0.1 mL	DMT				
280-137048-A-1	EW7-PM21A-3-25	3535, 8330A	T	0.1 mL					
280-137048-A-2	EW7-PM22A-3-25	3535, 8330A	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 TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Batch Number: 496861 Batch Start Date: 06/01/20 10:20 Batch Analyst: Adams, Marisa LBatch Method: 3535 Batch End Date: 06/01/20 13:55

Batch Notes	
Acid ID	CaCl2_Sol_00071
Acid Name	CaCl2
Balance ID	24350888
Batch Comment	DV-OP-0017 Mantel:A/C
First End time	06/01/2020 13:30
Pipette/Syringe/Dispenser ID	Jiji, DOD, Soot
Rinse Solvent Lot	0.1%AAinACN_00138
Rinse Solvent Name	0.1%AAinACN
Solvent Lot #	ACN_00234
Solvent Name	Acetonitrile
SPE Cartridge Lot ID	005130024A
SPE Cartridge Type	Porapak RDX
Analyst ID - Spike Analyst	MA
Analyst ID - Spike Witness Analyst	Reviewer:self
First Start time	06/01/2020 10:26

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 TestAmerica, Denver Job Number: 280-137048-1

SDG No.: _____

Project: Cornhusker (CHAAP)

Client Sample ID

EW7-PM21A-3-25

EW7-PM22A-3-25

Lab Sample ID

280-137048-1

280-137048-2

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: EW7-PM21A-3-25

Lab Sample ID: 280-137048-1

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-137048-1

SDG ID.:

Matrix: Water

Date Sampled: 05/28/2020 10:45

Reporting Basis: WET

Date Received: 05/29/2020 09:35

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Ammonia	0.80	0.50	0.25	0.11	mg/L			5	350.1
Nitrogen, Total Kjeldahl	1.8	1.0	1.0	0.69	mg/L			1	351.2
Nitrate Nitrite as N	8.0	0.10	0.050	0.019	mg/L			1	353.2
Sulfide	1.9	4.0	1.9	0.79	mg/L	U		1	9034
Sulfate	49	5.0	3.0	1.0	mg/L			1	9056A
Total Alkalinity as CaCO3	390	10	10	3.1	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: EW7-PM21A-3-25
Lab Name: Eurofins TestAmerica, Denver
SDG ID.:
Matrix: Water
Reporting Basis: WET

Lab Sample ID: 280-137048-1
Job No.: 280-137048-1
Date Sampled: 05/28/2020 10:45
Date Received: 05/29/2020 09:35

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Dissolved Organic Carbon - Quad	11	1.0	1.0	0.35	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: EW7-PM22A-3-25

Lab Sample ID: 280-137048-2

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-137048-1

SDG ID.:

Matrix: Water

Date Sampled: 05/28/2020 12:25

Reporting Basis: WET

Date Received: 05/29/2020 09:35

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Ammonia	2.3	1.0	0.50	0.22	mg/L			10	350.1
Nitrogen, Total Kjeldahl	7.5	2.5	2.5	1.7	mg/L			1	351.2
Nitrate Nitrite as N	5.4	0.10	0.050	0.019	mg/L			1	353.2
Sulfide	1.9	4.0	1.9	0.79	mg/L	U		1	9034
Sulfate	30	5.0	3.0	1.0	mg/L			1	9056A
Total Alkalinity as CaCO3	470	10	10	3.1	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: EW7-PM22A-3-25

Lab Sample ID: 280-137048-2

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-137048-1

SDG ID.:

Matrix: Water

Date Sampled: 05/28/2020 12:25

Reporting Basis: WET

Date Received: 05/29/2020 09:35

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Dissolved Organic Carbon - Quad	68	2.0	2.0	0.69	mg/L			2	9060A

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Analyst: BWH Batch Start Date: 06/02/2020
 Reporting Units: mg/L Analytical Batch No.: 497078

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
14	ICVL	11:02	Ammonia	0.524	0.501	105	90-110		350.1 ICV_00405
15	ICV	11:04	Ammonia	2.42	2.51	96	90-110		350.1 ICV_00405
16	ICB	11:06	Ammonia	0.050				U	
33	CCVL	11:46	Ammonia	0.528	0.500	106	90-110		350.1 cal_00417
34	CCV	11:48	Ammonia	2.46	2.50	99	90-110		350.1 cal_00417
35	CCB	11:50	Ammonia	0.050				U	
41	CCVL	12:17	Ammonia	0.491	0.500	98	90-110		350.1 cal_00417
42	CCV	12:19	Ammonia	2.49	2.50	100	90-110		350.1 cal_00417
43	CCB	12:21	Ammonia	0.050				U	

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

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Analyst: SVC Batch Start Date: 06/04/2020
Reporting Units: mg/L Analytical Batch No.: 497506

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
13	ICV	16:45	Nitrogen, Total Kjeldahl	5.41	5.00	108	90-110		TKN ICV 25_00093
14	ICB	16:46	Nitrogen, Total Kjeldahl	1.0				U	
31	CCV	17:08	Nitrogen, Total Kjeldahl	5.20	5.00	104	90-110		TKN 25ppm_00808
32	CCB	17:09	Nitrogen, Total Kjeldahl	1.0				U	
49	CCV	17:30	Nitrogen, Total Kjeldahl	5.17	5.00	103	90-110		TKN 25ppm_00808
50	CCB	17:31	Nitrogen, Total Kjeldahl	1.0				U	

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

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Analyst: SVC Batch Start Date: 06/01/2020
 Reporting Units: mg/L Analytical Batch No.: 496971

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
17	ICV	17:14	Nitrate Nitrite as N	4.62	5.00	92	90-110		NXN ICV INT_00514
18	ICVL	17:16	Nitrate Nitrite as N	1.98	2.00	99	90-110		NXN ICV INT_00514
19	ICB	17:18	Nitrate Nitrite as N	0.050				U	
51	CCV	18:22	Nitrate Nitrite as N	4.89	5.00	98	90-110		NXN CAL INT_00533
52	CCVL	18:24	Nitrate Nitrite as N	1.00	1.00	100	90-110		NXN CAL INT_00533
53	CCB	18:26	Nitrate Nitrite as N	0.050				U	
67	CCV	18:54	Nitrate Nitrite as N	4.93	5.00	99	90-110		NXN CAL INT_00533
68	CCVL	18:56	Nitrate Nitrite as N	1.04	1.00	104	90-110		NXN CAL INT_00533
69	CCB	18:58	Nitrate Nitrite as N	0.050				U	
83	CCV	19:26	Nitrate Nitrite as N	4.91	5.00	98	90-110		NXN CAL INT_00533
84	CCVL	19:28	Nitrate Nitrite as N	1.03	1.00	103	90-110		NXN CAL INT_00533
85	CCB	19:30	Nitrate Nitrite as N	0.050				U	

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

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Analyst: JAP Batch Start Date: 05/15/2020
Reporting Units: mg/L Analytical Batch No.: 495047

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	13:24	Sulfate	84.0	80.0	105	90-110		IC SO4 ICV_00021
2	ICB	13:42	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 TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Analyst: JAP Batch Start Date: 05/30/2020
 Reporting Units: mg/L Analytical Batch No.: 496694

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
41	CCV	00:57	Sulfate	100	100	100	90-110		IC LCS_01743
42	CCB	01:14	Sulfate	2.5				U	
53	CCV	04:26	Sulfate	100	100	100	90-110		IC LCS_01743
54	CCB	04:43	Sulfate	2.5				U	
65	CCV	07:56	Sulfate	101	100	101	90-110		IC LCS_01743
66	CCB	08:13	Sulfate	2.5				U	
77	CCV	11:26	Sulfate	102	100	102	90-110		IC LCS_01743
78	CCB	11:43	Sulfate	2.5				U	
89	CCV	14:56	Sulfate	103	100	103	90-110		IC LCS_01743
90	CCB	15:13	Sulfate	2.5				U	
98	CCV	17:33	Sulfate	103	100	103	90-110		IC LCS_01743
99	CCB	17:50	Sulfate	2.5				U	

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

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Analyst: JMB Batch Start Date: 06/09/2020
Reporting Units: mg/L Analytical Batch No.: 498213

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	17:46	Dissolved Organic Carbon - Quad	21.6	20.0	108	90-110		TOC ICV Std_00043
2	ICB	18:03	Dissolved Organic Carbon - Quad	1.0				U	
15	CCV	21:27	Dissolved Organic Carbon - Quad	27.0	25.0	108	90-110		TOC LCS Std_00048
16	CCB	21:42	Dissolved Organic Carbon - Quad	1.0				U	

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

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Analyst: JMB Batch Start Date: 06/11/2020
 Reporting Units: mg/L Analytical Batch No.: 498580

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	ICV	19:04	Dissolved Organic Carbon - Quad	19.8	20.0	99	90-110		TOC ICV Std_00043
3	ICB	19:18	Dissolved Organic Carbon - Quad	1.0				U	
16	CCV	22:55	Dissolved Organic Carbon - Quad	25.9	25.0	104	90-110		TOC LCS Std_00048
17	CCB	23:11	Dissolved Organic Carbon - Quad	1.0				U	
28	CCV	02:09	Dissolved Organic Carbon - Quad	26.2	25.0	105	90-110		TOC LCS Std_00048
29	CCB	02:26	Dissolved Organic Carbon - Quad	1.0				U	

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

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Analyst: SPG Batch Start Date: 06/02/2020
Reporting Units: mg/L Analytical Batch No.: 497060

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
16	CCV	10:20	Total Alkalinity as CaCO3	204	200	102	90-110		Alk daily lcs 00905
17	CCB	10:24	Total Alkalinity as CaCO3	10				U	
25	CCV	11:21	Total Alkalinity as CaCO3	207	200	104	90-110		Alk daily lcs 00905
26	CCB	11:26	Total Alkalinity as CaCO3	10				U	

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

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-137048-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	LOQ	Dil
Batch ID: 497078 Date: 06/02/2020 11:14							
350.1	MB 280-497078/20	Ammonia	0.050	U	mg/L	0.10	1
Batch ID: 497506 Date: 06/04/2020 16:49 Prep Batch: 497115 Date: 06/02/2020 16:26							
351.2	MB 280-497115/2-A	Nitrogen, Total Kjeldahl	1.0	U	mg/L	1.0	1
Batch ID: 496971 Date: 06/01/2020 18:40							
353.2	MB 280-496971/60	Nitrate Nitrite as N	0.050	U	mg/L	0.10	1
Batch ID: 497042 Date: 06/02/2020 10:59 Prep Batch: 497037 Date: 06/02/2020 10:53							
9034	MB 280-497037/2-A	Sulfide	1.9	U	mg/L	4.0	1
Batch ID: 496694 Date: 05/30/2020 02:07							
9056A	MB 280-496694/45	Sulfate	3.0	U	mg/L	5.0	1
Batch ID: 498213 Date: 06/09/2020 18:50							
9060A	MB 280-498065/3-A	Dissolved Organic Carbon - Quad	1.0	U	mg/L	1.0	1
Batch ID: 498580 Date: 06/11/2020 20:06							
9060A	MB 280-498352/3-A	Dissolved Organic Carbon - Quad	1.0	U	mg/L	1.0	1
Batch ID: 497060 Date: 06/02/2020 09:18							
SM 2320B	MB 280-497060/5	Total Alkalinity as CaCO3	10	U	mg/L	10	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 497506 Date: 06/04/2020 17:16 Prep Batch: 497115 Date: 06/02/2020 16:26											
351.2	280-137048-1	Nitrogen, Total Kjeldahl	1.8		mg/L						
351.2	280-137048-1	Nitrogen, Total Kjeldahl	4.64		mg/L	3.00	95	90-110			
MS											
Batch ID: 498580 Date: 06/12/2020 00:52											
9060A	280-137048-D-1-C	Dissolved Organic Carbon - Quad	10		mg/L						
9060A	280-137048-D-1-C MS	Dissolved Organic Carbon - Quad	35.4		mg/L	25.0	101	88-112			

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

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 497506 Date: 06/04/2020 17:18 Prep Batch: 497115 Date: 06/02/2020 16:26											
351.2	280-137048-1	Nitrogen, Total	4.60		mg/L	3.00	93	90-110	1	25	
	MSD	Kjeldahl									
Batch ID: 498580 Date: 06/12/2020 01:09											
9060A	280-137048-D-	Dissolved Organic	34.8		mg/L	25.0	99	88-112	2	15	
	1-D MSD	Carbon - Quad									

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

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-137048-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 497078 Date: 06/02/2020 11:10											
350.1	LCS 280-497078/18	Ammonia	2.51		mg/L	LCS Source: 350.1 cal_00417 2.50	101	90-110	1	10	
Batch ID: 497506 Date: 06/04/2020 16:48 Prep Batch: 497115 Date: 06/02/2020 16:26											
351.2	LCS 280-497115/1-A	Nitrogen, Total Kjeldahl	6.06		mg/L	LCS Source: TKN 25ppm_00808 6.00	101	90-110			
Batch ID: 496971 Date: 06/01/2020 18:38											
353.2	LCS 280-496971/59	Nitrate Nitrite as N	4.97		mg/L	LCS Source: NXN CAL INT_00533 5.00	99	90-110			
Batch ID: 497042 Date: 06/02/2020 10:59 Prep Batch: 497037 Date: 06/02/2020 10:53											
9034	LCS 280-497037/1-A	Sulfide	12.0		mg/L	LCS Source: SFD CAL INT_01757 18.2	66	44-110			
Batch ID: 496694 Date: 05/30/2020 01:32											
9056A	LCS 280-496694/43	Sulfate	99.4		mg/L	LCS Source: IC LCS_01743 100	99	87-112	0	10	
Batch ID: 498213 Date: 06/09/2020 18:18											
9060A	LCS 280-498065/1-A	Dissolved Organic Carbon - Quad	26.8		mg/L	LCS Source: TOC LCS Std_00048 25.0	107	88-112	2	15	
Batch ID: 498580 Date: 06/11/2020 19:33											
9060A	LCS 280-498352/1-A	Dissolved Organic Carbon - Quad	25.8		mg/L	LCS Source: TOC LCS Std_00048 25.0	103	88-112	0	15	
Batch ID: 497060 Date: 06/02/2020 09:13											
SM 2320B	LCS 280-497060/4	Total Alkalinity as CaCO3	206		mg/L	LCS Source: Alk daily lcs_00905 200	103	89-109			

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 TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 497078 Date: 06/02/2020 11:12											
350.1	LCSD 280-497078/19	Ammonia	2.48		mg/L	2.50	99	90-110	1	10	
LCSD Source: 350.1 cal_00417											
Batch ID: 496694 Date: 05/30/2020 01:49											
9056A	LCSD 280-496694/44	Sulfate	99.0		mg/L	100	99	87-112	0	10	
LCSD Source: IC LCS_01743											
Batch ID: 498213 Date: 06/09/2020 18:33											
9060A	LCSD 280-498065/2-A	Dissolved Organic Carbon - Quad	27.4		mg/L	25.0	109	88-112	2	15	
LCSD Source: TOC LCS Std_00048											
Batch ID: 498580 Date: 06/11/2020 19:51											
9060A	LCSD 280-498352/2-A	Dissolved Organic Carbon - Quad	25.7		mg/L	25.0	103	88-112	0	15	
LCSD Source: TOC LCS Std_00048											

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 TestAmerica, Denver Job No.: 280-137048-1
SDG No.: _____
Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 496694 Date: 05/29/2020 13:52											
						LCS Source: IC CAL cl/so4_00312					
9056A	MRL 280-496694/3	Sulfate	4.23	J	mg/L	5.00	85	50-150			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job Number: 280-137048-1

SDG Number: _____

Matrix: Water

Instrument ID: WC_Alph 3

Method: 350.1

DL Date: 03/28/2011 13:26

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Ammonia		0.1	0.022

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job Number: 280-137048-1

SDG Number: _____

Matrix: Water

Instrument ID: WC_Alps 3

Method: 350.1

XMDL Date: 03/28/2011 13:26

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Ammonia		0.1	0.0225

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job Number: 280-137048-1

SDG Number: _____

Matrix: Water

Instrument ID: WC_Astoria

Method: 351.2

DL Date: 02/03/2019 00:00

Prep Method: 351.2

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Nitrogen, Total Kjeldahl		1	0.687

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job Number: 280-137048-1

SDG Number: _____

Matrix: Water

Instrument ID: WC_Astoria

Method: 351.2

XMDL Date: 02/03/2019 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrogen, Total Kjeldahl		1	0.687

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job Number: 280-137048-1

SDG Number: _____

Matrix: Water

Instrument ID: WC_Alpha 2

Method: 353.2

DL Date: 12/16/2011 09:50

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Nitrate Nitrite as N		0.1	0.019

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job Number: 280-137048-1

SDG Number: _____

Matrix: Water

Instrument ID: WC_Alps 2

Method: 353.2

XMDL Date: 05/16/2011 11:21

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrate Nitrite as N		0.1	0.0191

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job Number: 280-137048-1

SDG Number: _____

Matrix: Water

Instrument ID: NOEQUIP

Method: 9034

DL Date: 03/28/2011 13:37

Prep Method: 9030B

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Sulfide		4	0.793

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job Number: 280-137048-1

SDG Number: _____

Matrix: Water

Instrument ID: NOEQUIP

Method: 9034

XMDL Date: 03/28/2011 13:37

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfide		4	0.793

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job Number: 280-137048-1

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 TestAmerica, Denver

Job Number: 280-137048-1

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 - DISSOLVED

Lab Name: Eurofins TestAmerica, Denver

Job Number: 280-137048-1

SDG Number: _____

Matrix: Water

Instrument ID: WC_SHI3

Method: 9060A

DL Date: 06/21/2019 00:00

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Dissolved Organic Carbon - Quad		1	0.345

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY - DISSOLVED

Lab Name: Eurofins TestAmerica, Denver

Job Number: 280-137048-1

SDG Number: _____

Matrix: Water

Instrument ID: WC_SHI3

Method: 9060A

XMDL Date: 06/21/2019 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Dissolved Organic Carbon - Quad		1	0.345

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job Number: 280-137048-1

SDG Number: _____

Matrix: Water

Instrument ID: WC-AT3

Method: SM 2320B

DL Date: 02/03/2019 00:00

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Total Alkalinity as CaCO ₃		10	3.08

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job Number: 280-137048-1

SDG Number: _____

Matrix: Water

Instrument ID: WC-AT3

Method: SM 2320B

XMDL Date: 02/03/2019 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Alkalinity as CaCO ₃		10	3.08

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-137048-1

SDG No.: _____

Prep Method: 351.2

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LCS 280-497115/1-A	06/02/2020 16:26	497115		25	25
MB 280-497115/2-A	06/02/2020 16:26	497115		25	25
280-137048-1	06/02/2020 16:26	497115		25	25
280-137048-1 MS	06/02/2020 16:26	497115		25	25
280-137048-1 MSD	06/02/2020 16:26	497115		25	25
280-137048-2	06/02/2020 16:26	497115		10	25

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-137048-1

SDG No.: _____

Prep Method: 9030B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LCS 280-497037/1-A	06/02/2020 10:53	497037		50	50
MB 280-497037/2-A	06/02/2020 10:53	497037		50	50
280-137048-1	06/02/2020 10:53	497037		50	50
280-137048-2	06/02/2020 10:53	497037		50	50

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-137048-1

SDG No.: _____

Instrument ID: WC_Alps 3

Analysis Method: 350.1

Start Date: 06/02/2020 10:36

End Date: 06/02/2020 12:23

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				N H 3																									
ZZZZZZ			10:36																										
ZZZZZZ			10:38																										
ZZZZZZ			10:40																										
IC 280-497078/4			10:42	X																									
IC 280-497078/5			10:44	X																									
IC 280-497078/6			10:46	X																									
IC 280-497078/7			10:48	X																									
IC 280-497078/8			10:50	X																									
IC 280-497078/9			10:52	X																									
IC 280-497078/10			10:54	X																									
IC 280-497078/11			10:56	X																									
ZZZZZZ			10:58																										
ZZZZZZ			11:00																										
ICVL 280-497078/14	1		11:02	X																									
ICV 280-497078/15	1		11:04	X																									
ICB 280-497078/16	1		11:06	X																									
ZZZZZZ			11:08																										
LCS 280-497078/18	1	T	11:10	X																									
LCSD 280-497078/19	1	T	11:12	X																									
MB 280-497078/20	1	T	11:14	X																									
ZZZZZZ			11:16																										
ZZZZZZ			11:18																										
ZZZZZZ			11:26																										
ZZZZZZ			11:28																										
ZZZZZZ			11:30																										
ZZZZZZ			11:32																										
ZZZZZZ			11:34																										
ZZZZZZ			11:36																										
ZZZZZZ			11:38																										
280-137048-1	5	T	11:40	X																									
RINSE 280-497078/31			11:42																										
ZZZZZZ			11:44																										
CCVL 280-497078/33	1		11:46	X																									
CCV 280-497078/34	1		11:48	X																									
CCB 280-497078/35	1		11:50	X																									
ZZZZZZ			11:52																										
280-137048-2	10	T	11:54	X																									
ZZZZZZ			11:56																										
RINSE 280-497078/39			12:13																										
ZZZZZZ			12:15																										
CCVL 280-497078/41	1		12:17	X																									

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: WC_Alps 3 Analysis Method: 350.1

Start Date: 06/02/2020 10:36 End Date: 06/02/2020 12:23

Lab Sample Id	D/F	T y p e	Time	Analytes																										
				NH3																										
CCV 280-497078/42	1		12:19	X																										
CCB 280-497078/43	1		12:21	X																										
ZZZZZZ			12:23																											

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-137048-1

SDG No.: _____

Instrument ID: WC_Astoria

Analysis Method: 351.2

Start Date: 06/04/2020 16:31

End Date: 06/04/2020 17:50

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				T K N																									
ZZZZZZ			16:31																										
ZZZZZZ			16:31																										
ZZZZZZ			16:33																										
ZZZZZZ			16:34																										
IC 280-494603/27-A			16:35	X																									
IC 280-494603/28-A			16:36	X																									
IC 280-494603/29-A			16:38	X																									
IC 280-494603/30-A			16:39	X																									
IC 280-494603/31-A			16:40	X																									
IC 280-494603/32-A			16:41	X																									
ZZZZZZ			16:43																										
ZZZZZZ			16:44																										
ICV 280-494603/33-A	1		16:45	X																									
ICB 280-494603/34-A	1		16:46	X																									
LCS 280-497115/1-A	1	T	16:48	X																									
MB 280-497115/2-A	1	T	16:49	X																									
ZZZZZZ			16:50																										
ZZZZZZ			16:51																										
ZZZZZZ			16:53																										
ZZZZZZ			16:54																										
ZZZZZZ			16:55																										
ZZZZZZ			16:56																										
ZZZZZZ			16:58																										
ZZZZZZ			16:59																										
ZZZZZZ			17:00																										
ZZZZZZ			17:01																										
ZZZZZZ			17:03																										
ZZZZZZ			17:04																										
ZZZZZZ			17:05																										
ZZZZZZ			17:06																										
CCV 280-494603/35-A	1		17:08	X																									
CCB 280-494603/36-A	1		17:09	X																									
ZZZZZZ			17:10																										
ZZZZZZ			17:11																										
ZZZZZZ			17:13																										
ZZZZZZ			17:14																										
280-137048-1	1	T	17:15	X																									
280-137048-1 MS	1	T	17:16	X																									
280-137048-1 MSD	1	T	17:18	X																									
ZZZZZZ			17:19																										
280-137048-2	1	T	17:20	X																									

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: WC_Astoria Analysis Method: 351.2

Start Date: 06/04/2020 16:31 End Date: 06/04/2020 17:50

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				T K N																									
ZZZZZZ			17:21																										
ZZZZZZ			17:23																										
ZZZZZZ			17:24																										
ZZZZZZ			17:25																										
ZZZZZZ			17:26																										
ZZZZZZ			17:28																										
ZZZZZZ			17:29																										
CCV 280-494603/35-A	1		17:30	X																									
CCB 280-494603/36-A	1		17:31	X																									
ZZZZZZ			17:33																										
ZZZZZZ			17:34																										
ZZZZZZ			17:35																										
ZZZZZZ			17:36																										
ZZZZZZ			17:38																										
ZZZZZZ			17:39																										
ZZZZZZ			17:40																										
ZZZZZZ			17:41																										
ZZZZZZ			17:43																										
ZZZZZZ			17:44																										
ZZZZZZ			17:45																										
CCV 280-494603/35-A			17:46																										
CCB 280-494603/36-A			17:48																										
ZZZZZZ			17:49																										
ZZZZZZ			17:50																										

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-137048-1

SDG No.: _____

Instrument ID: WC_Alps 2

Analysis Method: 353.2

Start Date: 06/01/2020 16:42

End Date: 06/01/2020 19:32

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				N N O 3 2																									
ZZZZZZ			16:42																										
ZZZZZZ			16:44																										
ZZZZZZ			16:46																										
ZZZZZZ			16:48																										
IC 280-496971/5			16:50	X																									
IC 280-496971/6			16:52	X																									
IC 280-496971/7			16:54	X																									
IC 280-496971/8			16:56	X																									
IC 280-496971/9			16:58	X																									
IC 280-496971/10			17:00	X																									
IC 280-496971/11			17:02	X																									
IC 280-496971/12			17:04	X																									
IC 280-496971/13			17:06	X																									
ZZZZZZ			17:08																										
ZZZZZZ			17:10																										
ZZZZZZ			17:12																										
ICV 280-496971/17	1		17:14	X																									
ICVL 280-496971/18	1		17:16	X																									
ICB 280-496971/19	1		17:18	X																									
ZZZZZZ			17:20																										
ZZZZZZ			17:22																										
ZZZZZZ			17:24																										
ZZZZZZ			17:26																										
ZZZZZZ			17:28																										
ZZZZZZ			17:30																										
ZZZZZZ			17:32																										
ZZZZZZ			17:34																										
ZZZZZZ			17:36																										
ZZZZZZ			17:38																										
ZZZZZZ			17:40																										
ZZZZZZ			17:42																										
ZZZZZZ			17:44																										
RINSE 280-496971/33			17:46																										
ZZZZZZ			17:48																										
CCV 280-496971/35			17:50																										
CCVL 280-496971/36			17:52																										
CCB 280-496971/37			17:54																										
ZZZZZZ			17:56																										
ZZZZZZ			17:58																										

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-137048-1

SDG No.: _____

Instrument ID: WC_Alp 2

Analysis Method: 353.2

Start Date: 06/01/2020 16:42

End Date: 06/01/2020 19:32

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				N N O 3 2																									
ZZZZZZ			18:00																										
ZZZZZZ			18:02																										
ZZZZZZ			18:04																										
ZZZZZZ			18:06																										
ZZZZZZ			18:08																										
ZZZZZZ			18:10																										
ZZZZZZ			18:12																										
ZZZZZZ			18:14																										
ZZZZZZ			18:16																										
RINSE 280-496971/49			18:18																										
ZZZZZZ			18:20																										
CCV 280-496971/51		1	18:22	X																									
CCVL 280-496971/52		1	18:24	X																									
CCB 280-496971/53		1	18:26	X																									
ZZZZZZ			18:28																										
ZZZZZZ			18:30																										
ZZZZZZ			18:32																										
ZZZZZZ			18:34																										
ZZZZZZ			18:36																										
LCS 280-496971/59		1 T	18:38	X																									
MB 280-496971/60		1 T	18:40	X																									
ZZZZZZ			18:42																										
ZZZZZZ			18:44																										
ZZZZZZ			18:46																										
280-137048-1		1 T	18:48	X																									
RINSE 280-496971/65			18:50																										
ZZZZZZ			18:52																										
CCV 280-496971/67		1	18:54	X																									
CCVL 280-496971/68		1	18:56	X																									
CCB 280-496971/69		1	18:58	X																									
ZZZZZZ			19:00																										
280-137048-2		1 T	19:02	X																									
ZZZZZZ			19:04																										
ZZZZZZ			19:06																										
ZZZZZZ			19:08																										
ZZZZZZ			19:10																										
ZZZZZZ			19:12																										
ZZZZZZ			19:14																										
ZZZZZZ			19:16																										

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: WC_Alps 2 Analysis Method: 353.2

Start Date: 06/01/2020 16:42 End Date: 06/01/2020 19:32

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				N N O 3 2																									
ZZZZZZ			19:18																										
ZZZZZZ			19:20																										
RINSE 280-496971/81			19:22																										
ZZZZZZ			19:24																										
CCV 280-496971/83	1		19:26	X																									
CCVL 280-496971/84	1		19:28	X																									
CCB 280-496971/85	1		19:30	X																									
ZZZZZZ			19:32																										

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: NOEQUIP Analysis Method: 9034

Start Date: 06/02/2020 10:59 End Date: 06/02/2020 10:59

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				S 2																									
LCS 280-497037/1-A	1	T	10:59	X																									
MB 280-497037/2-A	1	T	10:59	X																									
ZZZZZZ			10:59																										
ZZZZZZ			10:59																										
ZZZZZZ			10:59																										
ZZZZZZ			10:59																										
ZZZZZZ			10:59																										
280-137048-1	1	T	10:59	X																									
280-137048-2	1	T	10:59	X																									
ZZZZZZ			10:59																										
ZZZZZZ			10:59																										
ZZZZZZ			10:59																										
ZZZZZZ			10:59																										
ZZZZZZ			10:59																										
ZZZZZZ			10:59																										

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-137048-1

SDG No.: _____

Instrument ID: WC_IonChrom10

Analysis Method: 9056A

Start Date: 05/15/2020 13:24

End Date: 05/16/2020 10:11

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				S O 4																									
ICV 280-495047/1	1		13:24	X																									
ICB 280-495047/2	1		13:42	X																									
ZZZZZZ			13:59																										
ZZZZZZ			14:17																										
ZZZZZZ			14:34																										
ZZZZZZ			14:57																										
ZZZZZZ			15:14																										
ZZZZZZ			15:32																										
ZZZZZZ			15:49																										
ZZZZZZ			16:07																										
ZZZZZZ			16:24																										
ZZZZZZ			16:42																										
ZZZZZZ			16:59																										
ZZZZZZ			17:17																										
ZZZZZZ			17:34																										
ZZZZZZ			17:52																										
CCV 280-495047/17			18:09																										
CCB 280-495047/18			18:27																										
ZZZZZZ			18:44																										
ZZZZZZ			19:02																										
ZZZZZZ			19:19																										
ZZZZZZ			19:37																										
ZZZZZZ			19:54																										
ZZZZZZ			20:12																										
ZZZZZZ			20:29																										
ZZZZZZ			20:47																										
ZZZZZZ			21:04																										
ZZZZZZ			21:22																										
CCV 280-495047/29			21:40																										
CCB 280-495047/30			21:57																										
ZZZZZZ			22:15																										
ZZZZZZ			22:32																										
ZZZZZZ			22:50																										
ZZZZZZ			23:07																										
ZZZZZZ			23:25																										
ZZZZZZ			23:42																										
ZZZZZZ			00:00																										
ZZZZZZ			00:17																										
ZZZZZZ			00:35																										
ZZZZZZ			00:52																										
CCV 280-495047/41			01:09																										

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Instrument ID: WC_IonChrom10 Analysis Method: 9056A
 Start Date: 05/15/2020 13:24 End Date: 05/16/2020 10:11

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				S O 4																									
CCB 280-495047/42			01:27																										
ZZZZZZ			01:44																										
ZZZZZZ			02:02																										
ZZZZZZ			02:19																										
ZZZZZZ			02:37																										
ZZZZZZ			02:54																										
ZZZZZZ			03:11																										
ZZZZZZ			03:29																										
ZZZZZZ			03:46																										
ZZZZZZ			04:04																										
ZZZZZZ			04:21																										
CCV 280-495047/53			04:39																										
CCB 280-495047/54			04:56																										
ZZZZZZ			05:14																										
ZZZZZZ			05:31																										
ZZZZZZ			05:48																										
ZZZZZZ			06:06																										
ZZZZZZ			06:23																										
ZZZZZZ			06:41																										
ZZZZZZ			06:58																										
ZZZZZZ			07:16																										
ZZZZZZ			07:33																										
ZZZZZZ			07:51																										
CCV 280-495047/65			08:08																										
CCB 280-495047/66			08:26																										
ZZZZZZ			08:43																										
ZZZZZZ			09:01																										
ZZZZZZ			09:18																										
ZZZZZZ			09:36																										
CCV 280-495047/71			09:54																										
CCB 280-495047/72			10:11																										

Prep Types: _____
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: WC_IonChrom10 Analysis Method: 9056A

Start Date: 05/29/2020 13:17 End Date: 05/30/2020 17:50

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				S O 4																									
CCV 280-496694/1			13:17																										
CCB 280-496694/2			13:34																										
MRL 280-496694/3	1	T	13:52	X																									
ZZZZZZ			14:09																										
ZZZZZZ			14:27																										
ZZZZZZ			14:44																										
ZZZZZZ			15:02																										
ZZZZZZ			15:19																										
ZZZZZZ			15:36																										
ZZZZZZ			15:54																										
ZZZZZZ			16:11																										
ZZZZZZ			16:29																										
ZZZZZZ			16:46																										
ZZZZZZ			17:04																										
ZZZZZZ			17:21																										
ZZZZZZ			17:39																										
CCV 280-496694/17			17:56																										
CCB 280-496694/18			18:14																										
ZZZZZZ			18:31																										
ZZZZZZ			18:49																										
ZZZZZZ			19:06																										
ZZZZZZ			19:24																										
ZZZZZZ			19:41																										
ZZZZZZ			19:59																										
ZZZZZZ			20:16																										
ZZZZZZ			20:34																										
ZZZZZZ			20:52																										
ZZZZZZ			21:09																										
CCV 280-496694/29			21:27																										
CCB 280-496694/30			21:44																										
ZZZZZZ			22:02																										
ZZZZZZ			22:19																										
ZZZZZZ			22:37																										
ZZZZZZ			22:54																										
ZZZZZZ			23:12																										
ZZZZZZ			23:29																										
ZZZZZZ			23:47																										
ZZZZZZ			00:04																										
ZZZZZZ			00:22																										
ZZZZZZ			00:39																										
CCV 280-496694/41	1		00:57	X																									

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-137048-1

SDG No.: _____

Instrument ID: WC_IonChrom10

Analysis Method: 9056A

Start Date: 05/29/2020 13:17

End Date: 05/30/2020 17:50

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				S O 4																									
CCB 280-496694/42	1		01:14	X																									
LCS 280-496694/43	1	T	01:32	X																									
LCSD 280-496694/44	1	T	01:49	X																									
MB 280-496694/45	1	T	02:07	X																									
ZZZZZZ			02:24																										
ZZZZZZ			02:41																										
ZZZZZZ			02:59																										
ZZZZZZ			03:16																										
ZZZZZZ			03:34																										
ZZZZZZ			03:51																										
ZZZZZZ			04:09																										
CCV 280-496694/53	1		04:26	X																									
CCB 280-496694/54	1		04:43	X																									
ZZZZZZ			05:01																										
ZZZZZZ			05:18																										
ZZZZZZ			05:36																										
ZZZZZZ			05:53																										
ZZZZZZ			06:11																										
ZZZZZZ			06:28																										
ZZZZZZ			06:46																										
ZZZZZZ			07:03																										
ZZZZZZ			07:21																										
ZZZZZZ			07:38																										
CCV 280-496694/65	1		07:56	X																									
CCB 280-496694/66	1		08:13	X																									
ZZZZZZ			08:31																										
ZZZZZZ			08:48																										
ZZZZZZ			09:06																										
ZZZZZZ			09:23																										
ZZZZZZ			09:41																										
ZZZZZZ			09:58																										
ZZZZZZ			10:16																										
ZZZZZZ			10:33																										
ZZZZZZ			10:51																										
ZZZZZZ			11:08																										
CCV 280-496694/77	1		11:26	X																									
CCB 280-496694/78	1		11:43	X																									
ZZZZZZ			12:01																										
ZZZZZZ			12:18																										
ZZZZZZ			12:36																										
ZZZZZZ			12:54																										

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Instrument ID: WC_IonChrom10 Analysis Method: 9056A
 Start Date: 05/29/2020 13:17 End Date: 05/30/2020 17:50

Lab Sample Id	D/F	T y p e	Time	Analytes																										
				S O 4																										
ZZZZZZ			13:11																											
ZZZZZZ			13:28																											
ZZZZZZ			13:46																											
ZZZZZZ			14:03																											
ZZZZZZ			14:21																											
ZZZZZZ			14:38																											
CCV 280-496694/89	1		14:56	X																										
CCB 280-496694/90	1		15:13	X																										
ZZZZZZ			15:31																											
ZZZZZZ			15:48																											
280-137048-1	1	T	16:05	X																										
280-137048-2	1	T	16:23	X																										
ZZZZZZ			16:40																											
ZZZZZZ			16:58																											
ZZZZZZ			17:15																											
CCV 280-496694/98	1		17:33	X																										
CCB 280-496694/99	1		17:50	X																										

Prep Types: _____
 T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-137048-1

SDG No.: _____

Instrument ID: WC_SHI3

Analysis Method: 9060A

Start Date: 06/09/2020 17:46

End Date: 06/10/2020 13:40

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				D O C Q																									
ICV 280-498213/1	1		17:46	X																									
ICB 280-498213/2	1		18:03	X																									
LCS 280-498065/1-A	1	D	18:18	X																									
LCSD 280-498065/2-A	1	D	18:33	X																									
MB 280-498065/3-A	1	D	18:50	X																									
ZZZZZZ			19:04																										
ZZZZZZ			19:19																										
ZZZZZZ			19:34																										
ZZZZZZ			19:48																										
ZZZZZZ			20:07																										
ZZZZZZ			20:24																										
ZZZZZZ			20:43																										
ZZZZZZ			20:57																										
280-137048-1	1	D	21:12	X																									
CCV 280-498213/15	1		21:27	X																									
CCB 280-498213/16	1		21:42	X																									
ZZZZZZ			21:56																										
ZZZZZZ			22:11																										
ZZZZZZ			22:26																										
ZZZZZZ			22:43																										
ZZZZZZ			23:06																										
ZZZZZZ			23:23																										
ZZZZZZ			23:40																										
ZZZZZZ			23:55																										
ZZZZZZ			00:10																										
ZZZZZZ			00:29																										
CCV 280-498213/27			00:44																										
CCB 280-498213/28			00:58																										
ZZZZZZ			01:13																										
ZZZZZZ			01:32																										
ZZZZZZ			01:51																										
ZZZZZZ			02:05																										
ZZZZZZ			02:22																										
ZZZZZZ			02:39																										
ZZZZZZ			02:54																										
ZZZZZZ			03:09																										
ZZZZZZ			03:25																										
ZZZZZZ			03:42																										
CCV 280-498213/39			03:57																										
CCB 280-498213/40			04:12																										

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: WC_SHI3 Analysis Method: 9060A

Start Date: 06/09/2020 17:46 End Date: 06/10/2020 13:40

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				D O C Q																									
ZZZZZZ			04:27																										
ZZZZZZ			04:42																										
ZZZZZZ			04:59																										
ZZZZZZ			05:18																										
ZZZZZZ			05:34																										
ZZZZZZ			05:49																										
ZZZZZZ			06:06																										
ZZZZZZ			06:21																										
ZZZZZZ			06:36																										
ZZZZZZ			06:53																										
CCV 280-498213/51			07:08																										
CCB 280-498213/52			07:29																										
ZZZZZZ			07:44																										
ZZZZZZ			08:01																										
ZZZZZZ			08:17																										
ZZZZZZ			08:38																										
ZZZZZZ			08:57																										
ZZZZZZ			09:12																										
ZZZZZZ			09:28																										
ZZZZZZ			09:47																										
ZZZZZZ			10:08																										
ZZZZZZ			10:25																										
CCV 280-498213/63			10:44																										
CCB 280-498213/64			10:58																										
ZZZZZZ			11:17																										
ZZZZZZ			11:36																										
ZZZZZZ			11:51																										
ZZZZZZ			12:08																										
ZZZZZZ			12:23																										
ZZZZZZ			12:42																										
ZZZZZZ			12:59																										
ZZZZZZ			13:18																										
CCV 280-498213/73			13:40																										

Prep Types: _____
D = Dissolved

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-137048-1

SDG No.: _____

Instrument ID: WC_SHI3

Analysis Method: 9060A

Start Date: 06/11/2020 17:57

End Date: 06/12/2020 15:26

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				D O C Q																									
ZZZZZZ			17:57																										
ICV 280-498580/2	1		19:04	X																									
ICB 280-498580/3	1		19:18	X																									
LCS 280-498352/1-A	1	D	19:33	X																									
LCSD 280-498352/2-A	1	D	19:51	X																									
MB 280-498352/3-A	1	D	20:06	X																									
ZZZZZZ			20:20																										
ZZZZZZ			20:39																										
ZZZZZZ			20:54																										
ZZZZZZ			21:09																										
ZZZZZZ			21:26																										
ZZZZZZ			21:44																										
ZZZZZZ			22:03																										
ZZZZZZ			22:22																										
ZZZZZZ			22:41																										
CCV 280-498580/16	1		22:55	X																									
CCB 280-498580/17	1		23:11	X																									
ZZZZZZ			23:32																										
ZZZZZZ			23:49																										
ZZZZZZ			00:06																										
ZZZZZZ			00:20																										
ZZZZZZ			00:37																										
280-137048-D-1-C MS	1		00:52	X																									
280-137048-D-1-D MSD	1		01:09	X																									
280-137048-2	2	D	01:24	X																									
ZZZZZZ			01:39																										
ZZZZZZ			01:54																										
CCV 280-498580/28	1		02:09	X																									
CCB 280-498580/29	1		02:26	X																									
ZZZZZZ			02:41																										
ZZZZZZ			02:56																										
ZZZZZZ			03:11																										
ZZZZZZ			03:25																										
ZZZZZZ			03:40																										
ZZZZZZ			03:55																										
ZZZZZZ			04:10																										
ZZZZZZ			04:24																										
ZZZZZZ			04:39																										
ZZZZZZ			04:54																										
CCV 280-498580/40			05:09																										

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Instrument ID: WC_SHI3 Analysis Method: 9060A

Start Date: 06/11/2020 17:57 End Date: 06/12/2020 15:26

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				D	O	C	Q																						
CCB 280-498580/41			05:26																										
ZZZZZZ			05:41																										
ZZZZZZ			05:59																										
ZZZZZZ			06:22																										
ZZZZZZ			06:37																										
ZZZZZZ			06:56																										
ZZZZZZ			07:15																										
ZZZZZZ			07:29																										
ZZZZZZ			07:44																										
ZZZZZZ			07:59																										
ZZZZZZ			08:14																										
CCV 280-498580/52			08:33																										
CCB 280-498580/53			08:47																										
ZZZZZZ			09:06																										
ZZZZZZ			09:25																										
ZZZZZZ			09:40																										
ZZZZZZ			09:59																										
ZZZZZZ			10:17																										
ZZZZZZ			10:32																										
ZZZZZZ			10:51																										
ZZZZZZ			11:06																										
ZZZZZZ			11:20																										
ZZZZZZ			11:39																										
CCV 280-498580/64			11:58																										
CCB 280-498580/65			12:13																										
ZZZZZZ			12:32																										
ZZZZZZ			12:47																										
ZZZZZZ			13:05																										
ZZZZZZ			13:20																										
ZZZZZZ			13:39																										
ZZZZZZ			13:54																										
ZZZZZZ			14:12																										
ZZZZZZ			14:33																										
ZZZZZZ			14:52																										
CCV 280-498580/75			15:11																										
CCB 280-498580/76			15:26																										

Prep Types: _____
D = Dissolved

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1
 SDG No.: _____
 Instrument ID: WC-AT3 Analysis Method: SM 2320B
 Start Date: 06/02/2020 09:00 End Date: 06/02/2020 11:26

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				A l k																									
RINSE 280-497060/1			09:00																										
ZZZZZZ			09:06																										
ZZZZZZ			09:08																										
LCS 280-497060/4	1	T	09:13	X																									
MB 280-497060/5	1	T	09:18	X																									
ZZZZZZ			09:23																										
ZZZZZZ			09:29																										
ZZZZZZ			09:35																										
ZZZZZZ			09:39																										
ZZZZZZ			09:44																										
ZZZZZZ			09:50																										
ZZZZZZ			09:56																										
ZZZZZZ			10:03																										
ZZZZZZ			10:09																										
ZZZZZZ			10:13																										
CCV 280-497060/16	1		10:20	X																									
CCB 280-497060/17	1		10:24	X																									
280-137048-1	1	T	10:31	X																									
280-137048-2	1	T	10:39	X																									
ZZZZZZ			10:46																										
ZZZZZZ			10:53																										
ZZZZZZ			11:00																										
ZZZZZZ			11:08																										
ZZZZZZ			11:15																										
CCV 280-497060/25	1		11:21	X																									
CCB 280-497060/26	1		11:26	X																									

Prep Types: _____
 T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Batch Number: 497078 Batch Start Date: 06/02/20 10:36 Batch Analyst: Hunter, Brandon WBatch Method: 350.1 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	ClResPres	InitialAmount	FinalAmount	Initial pH	350.1 cal 00417	350.1 ICV 00405
ICVL 280-497078/14		350.1			100 mL	100 mL			0.5 mL
ICV 280-497078/15		350.1			100 mL	100 mL			2.5 mL
ICB 280-497078/16		350.1			10 mL	10 mL			
LCS 280-497078/18		350.1			100 mL	100 mL		2.5 mL	
LCS 280-497078/19		350.1			100 mL	100 mL		2.5 mL	
MB 280-497078/20		350.1			10 mL	10 mL			
280-137048-C-1	EW7-PM21A-3-25	350.1	T	No	10 mL	10 mL	<2 SU		
CCVL 280-497078/33		350.1			100 mL	100 mL		0.5 mL	
CCV 280-497078/34		350.1			100 mL	100 mL		2.5 mL	
CCB 280-497078/35		350.1			10 mL	10 mL			
280-137048-C-2	EW7-PM22A-3-25	350.1	T	No	10 mL	10 mL	<2 SU		
CCVL 280-497078/41		350.1			100 mL	100 mL		0.5 mL	
CCV 280-497078/42		350.1			100 mL	100 mL		2.5 mL	
CCB 280-497078/43		350.1			10 mL	10 mL			

Batch Notes	
Batch Comment	BWH
Carrier Identification	350.1 complex_00482
Hypochlorite ID	350.1 bleach_01254
Sodium Nitroprusside ID	350.1 color_00202
Pipette/Syringe/Dispenser ID	BWH100, BWH1000, BWH5000

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.

350.1

Page 1 of 1

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Batch Number: 494603 Batch Start Date: 05/12/20 17:15 Batch Analyst: Cherry, Scott VBatch Method: 351.2 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TKN 25ppm 00808	TKN ICV 25 00093		
ICV 280-494603/33		351.2, 351.2		25 mL	25 mL		5 mL		
ICB 280-494603/34		351.2, 351.2		25 mL	25 mL				
CCV 280-494603/35		351.2, 351.2		25 mL	25 mL	5 mL			
CCB 280-494603/36		351.2, 351.2		25 mL	25 mL				

Batch Notes	
Block Digestion End time	05/12/20 2330
Block Digestion Start time	05/12/20 1830
Block Digester ID	TKN Hotblock
Digestion Solution ID	TKN digestion_00135
Oven, Bath or Block Temperature 1	185 Degrees C
Oven, Bath or Block Temperature 2	380 Degrees C

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 TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Batch Number: 497115 Batch Start Date: 06/02/20 16:25 Batch Analyst: Cherry, Scott VBatch Method: 351.2 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	TKN 25ppm 00808		
LCS 280-497115/1		351.2, 351.2			25 mL	25 mL	6 mL		
MB 280-497115/2		351.2, 351.2			25 mL	25 mL			
280-137048-C-1	EW7-PM21A-3-25	351.2, 351.2	T	<2	25 mL	25 mL			
280-137048-C-1 MS	EW7-PM21A-3-25	351.2, 351.2	T	<2	25 mL	25 mL	3 mL		
280-137048-C-1 MSD	EW7-PM21A-3-25	351.2, 351.2	T	<2	25 mL	25 mL	3 mL		
280-137048-C-2	EW7-PM22A-3-25	351.2, 351.2	T	<2	10 mL	25 mL			

Batch Notes	
Block Digestion End time	06/02/20 2330
Block Digestion Start time	06/02/20 1730
Block Digestor ID	TKN Hotblock
Digestion Solution ID	TKN digestion_00135
Oven, Bath or Block Temperature 1	165 Degrees C
Oven, Bath or Block Temperature 2	380 Degrees C

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.

351.2

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Batch Number: 497506 Batch Start Date: 06/04/20 16:31 Batch Analyst: Cherry, Scott VBatch Method: 351.2 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount					
ICV 280-494603/33-A		351.2		4 mL					
ICB 280-494603/34-A		351.2		4 mL					
LCS 280-497115/1-A		351.2		4 mL					
MB 280-497115/2-A		351.2		4 mL					
CCV 280-494603/35-A		351.2		4 mL					
CCB 280-494603/36-A		351.2		4 mL					
280-137048-C-1-A	EW7-PM21A-3-25	351.2	T	4 mL					
280-137048-C-1-B MS	EW7-PM21A-3-25	351.2	T	4 mL					
280-137048-C-1-C MSD	EW7-PM21A-3-25	351.2	T	4 mL					
280-137048-C-2-A	EW7-PM22A-3-25	351.2	T	4 mL					
CCV 280-494603/35-A		351.2		4 mL					
CCB 280-494603/36-A		351.2		4 mL					

Batch Notes	
Buffer Reagent ID	TKN buffer_00125
Hypochlorite ID	TKN hypo_00668
Sodium Nitroprusside ID	sodium nitro_0099
Pipette/Syringe/Dispenser ID	5000ad, 1000ad

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.

351.2

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Batch Number: 496971 Batch Start Date: 06/01/20 16:42 Batch Analyst: Cherry, Scott VBatch Method: 353.2 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	NXN CAL INT 00533	NXN ICV INT 00514		
ICV 280-496971/17		353.2		100 mL	100 mL		5 mL		
ICVL 280-496971/18		353.2		100 mL	100 mL		2 mL		
ICB 280-496971/19		353.2		100 mL	100 mL				
CCV 280-496971/51		353.2		100 mL	100 mL	5 mL			
CCVL 280-496971/52		353.2		100 mL	100 mL	1 mL			
CCB 280-496971/53		353.2		100 mL	100 mL				
LCS 280-496971/59		353.2		100 mL	100 mL	5 mL			
MB 280-496971/60		353.2		100 mL	100 mL				
280-137048-C-1	EW7-PM21A-3-25	353.2	T	100 mL	100 mL				
CCV 280-496971/67		353.2		100 mL	100 mL	5 mL			
CCVL 280-496971/68		353.2		100 mL	100 mL	1 mL			
CCB 280-496971/69		353.2		100 mL	100 mL				
280-137048-C-2	EW7-PM22A-3-25	353.2	T	100 mL	100 mL				
CCV 280-496971/83		353.2		100 mL	100 mL	5 mL			
CCVL 280-496971/84		353.2		100 mL	100 mL	1 mL			
CCB 280-496971/85		353.2		100 mL	100 mL				

Batch Notes	
Buffer Reagent ID	NOXT Buffer_00208
Color Reagent ID	NOXT CR_00107
Copper Sulfate ID	CuSO4 NOXT_0008
Hydrochloric Acid ID	0.5N HCl_0076
pH Indicator ID	hc989495
Pipette/Syringe/Dispenser ID	5000ad, 1000ad

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.

353.2

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Batch Number: 496971 Batch Start Date: 06/01/20 16:42 Batch Analyst: Cherry, Scott VBatch Method: 353.2 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.

353.2

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Batch Number: 497037 Batch Start Date: 06/02/20 10:53 Batch Analyst: David, Alexa ABatch Method: 9030B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	DistillUnitPort	Initial pH	Final pH	AcidVolAdded
LCS 280-497037/1		9030B, 9034		50 mL	50 mL	1	>9 SU	<2 SU	5 mL
MB 280-497037/2		9030B, 9034		50 mL	50 mL	2	>9 SU	<2 SU	5 mL
280-137048-E-1	EW7-PM21A-3-25	9030B, 9034	T	50 mL	50 mL	9	>9 SU	<2 SU	5 mL
280-137048-E-2	EW7-PM22A-3-25	9030B, 9034	T	50 mL	50 mL	10	>9 SU	<2 SU	5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	SFD CAL INT 01757					
LCS 280-497037/1		9030B, 9034		1 mL					
MB 280-497037/2		9030B, 9034							
280-137048-E-1	EW7-PM21A-3-25	9030B, 9034	T						
280-137048-E-2	EW7-PM22A-3-25	9030B, 9034	T						

Batch Notes	
Distillation End Time	02/17/2020 19:09
Distillation Start Time	02/17/2020 18:03
Formaldehyde ID	Form_00117
pH Indicator ID	HC989495 & HC 606169
Pipette/Syringe/Dispenser ID	AB8A1000 & 5000IX
Sulfuric Acid Reagent ID Number	H2SO4_00203
Zinc Acetate Buffer ID	Znac_00115

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 TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Batch Number: 497042 Batch Start Date: 06/02/20 10:59 Batch Analyst: David, Alexa ABatch Method: 9034 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	BuretStart1	BuretStop1	IodineAmount	TitrantVolume1	FinalAmount	
LCS 280-497037/1-A		9034		0 mL	3.5 mL	5 mL	3.5 mL	50 mL	
MB 280-497037/2-A		9034		3.7 mL	4.7 mL	1 mL	1 mL	50 mL	
280-137048-E-1-A	EW7-PM21A-3-25	9034	T	17.9 mL	19 mL	1 mL	1.1 mL	50 mL	
280-137048-E-2-A	EW7-PM22A-3-25	9034	T	19 mL	20 mL	1 mL	1 mL	50 mL	

Batch Notes	
Batch Comment	AD trained by SAH
Hydrochloric Acid ID	HClSol_00181
Iodine ID	iod_00257
Normality of Iodine Solution	.025 N
Sodium Thiosulfate ID	Nathio_00166
Pipette/Syringe/Dispenser ID	AB8A1000 & 5000IX
Starch Reagent ID	starchind_00062
Normality of First Titrant	.025 N

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 TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Batch Number: 494835 Batch Start Date: 05/14/20 10:46 Batch Analyst: Pedrick, Joshua ABatch Method: 9056A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC CAL cl/so4 00310	IC Cal low 00524		
STD1 280-494835/2 IC		9056A		5 mL	5 mL	0.04 mL	0.04 mL		
STD2 280-494835/3 IC		9056A		5 mL	5 mL	0.1 mL	0.1 mL		
STD3 280-494835/4 IC		9056A		5 mL	5 mL	0.2 mL	0.2 mL		
STD4 280-494835/5 IC		9056A		5 mL	5 mL	2.4 mL	0.8 mL		
STD5 280-494835/6 IC		9056A		5 mL	5 mL	4.8 mL	1.6 mL		
STD6 280-494835/7 IC		9056A		5 mL	5 mL	8 mL	2 mL		

Batch Notes	
Eluent 1 ID	Water
Filter ID	R7MA61819
Pipette/Syringe/Dispenser ID	ic100, wc-1000d, 5000ics
Regeneration Solution ID	ic10 H3PO4_00002
Sufficient Volume for Batch QC	Yes

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.

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Batch Number: 495047 Batch Start Date: 05/15/20 13:24 Batch Analyst: Pedrick, Joshua ABatch Method: 9056A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC CL ICV 00018	IC ICV 5 00270	IC SO4 ICV 00021	
ICV 280-495047/1		9056A		5 mL	5 mL	0.8 mL	0.8 mL	0.8 mL	
ICB 280-495047/2		9056A		5 mL	5 mL				

Batch Notes	
Eluent 1 ID	Water
Filter ID	R7MA61819
Pipette/Syringe/Dispenser ID	ic100, wc-1000d, 5000ics
Regeneration Solution ID	ic10 H3PO4_00003
Sufficient Volume for Batch QC	Yes

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.

9056A

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Batch Number: 496694 Batch Start Date: 05/29/20 13:17 Batch Analyst: Pedrick, Joshua ABatch Method: 9056A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC CAL cl/so4 00312	IC Cal low 00527	IC LCS 01743	
MRL 280-496694/3		9056A		5 mL	5 mL	0.2 mL	0.1 mL		
CCV 280-496694/41		9056A		5 mL	5 mL			10 mL	
CCB 280-496694/42		9056A		5 mL	5 mL				
LCS 280-496694/43		9056A		5 mL	5 mL			10 mL	
LCSD 280-496694/44		9056A		5 mL	5 mL			10 mL	
MB 280-496694/45		9056A		5 mL	5 mL				
CCV 280-496694/53		9056A		5 mL	5 mL			10 mL	
CCB 280-496694/54		9056A		5 mL	5 mL				
CCV 280-496694/65		9056A		5 mL	5 mL			10 mL	
CCB 280-496694/66		9056A		5 mL	5 mL				
CCV 280-496694/77		9056A		5 mL	5 mL			10 mL	
CCB 280-496694/78		9056A		5 mL	5 mL				
CCV 280-496694/89		9056A		5 mL	5 mL			10 mL	
CCB 280-496694/90		9056A		5 mL	5 mL				
280-137048-F-1	EW7-PM21A-3-25	9056A	T	5 mL	5 mL				
280-137048-F-2	EW7-PM22A-3-25	9056A	T	5 mL	5 mL				
CCV 280-496694/98		9056A		5 mL	5 mL			10 mL	
CCB 280-496694/99		9056A		5 mL	5 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.

9056A

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Batch Number: 496694 Batch Start Date: 05/29/20 13:17 Batch Analyst: Pedrick, Joshua ABatch Method: 9056A Batch End Date: _____

Batch Notes	
Eluent 1 ID	Water
Filter ID	R7MA61819
Pipette/Syringe/Dispenser ID	ic100, wc-1000d, 5000ics
Regeneration Solution ID	ic10 H3PO4_00003
Sufficient Volume for Batch QC	Yes

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 TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Batch Number: 498213 Batch Start Date: 06/09/20 17:46 Batch Analyst: Battillo, Jenna MBatch Method: 9060A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	TOC ICV Std 00043	TOC LCS Std 00048	
ICV 280-498213/1		9060A		50 mL	50 mL	<2 SU	1 mL		
ICB 280-498213/2		9060A		20 mL	20 mL	<2 SU			
LCS 280-498065/1-A		9060A		200 mL	200 mL	<2 SU		5 mL	
LCS D 280-498065/2-A		9060A		200 mL	200 mL	<2 SU		5 mL	
MB 280-498065/3-A		9060A		20 mL	20 mL	<2 SU			
280-137048-D-1-A	EW7-PM21A-3-25	9060A	D	20 mL	20 mL	6 SU			
CCV 280-498213/15		9060A		200 mL	200 mL	<2 SU		5 mL	
CCB 280-498213/16		9060A		20 mL	20 mL	<2 SU			

Batch Notes	
Acid ID	H2SO4_00205; 0.2% H2SO4_00348
Combustion Catalyst ID	18003D-01
Pipette/Syringe/Dispenser ID	BMF 5000, BMF 1000

Basis	Basis Description
D	Dissolved

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.

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Batch Number: 498579 Batch Start Date: 06/11/20 17:57 Batch Analyst: Battillo, Jenna MBatch Method: 9060A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	TOC LCS Std 00048		
LCS 280-498352/1-A		9060A		200 mL	200 mL	<2 SU	5 mL		
LCSD 280-498352/2-A		9060A		200 mL	200 mL	<2 SU	5 mL		
MB 280-498352/3-A		9060A		20 mL	20 mL	<2 SU			
280-137048-D-1- C MS		9060A		50 mL	50 mL	6 SU	1.25 mL		
280-137048-D-1- D MSD		9060A		50 mL	50 mL	6 SU	1.25 mL		
280-137048-D-2- B	EW7-PM22A-3-25	9060A	D	20 mL	20 mL	6 SU			

Batch Notes	
Acid ID	H2SO4_00205, 0.2% H2SO4_0-0348
Combustion Catalyst ID	18003D-01
Pipette/Syringe/Dispenser ID	BMF 5000, BMF 1000

Basis	Basis Description
D	Dissolved

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.

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Batch Number: 498580 Batch Start Date: 06/11/20 17:57 Batch Analyst: Battillo, Jenna MBatch Method: 9060A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	TOC ICV Std 00043	TOC LCS Std 00048	
ICV 280-498580/2		9060A		50 mL	50 mL	<2 SU	1 mL		
ICB 280-498580/3		9060A		20 mL	20 mL	<2 SU			
LCS 280-498352/1-A		9060A		200 mL	200 mL	<2 SU		5 mL	
LCS D 280-498352/2-A		9060A		200 mL	200 mL	<2 SU		5 mL	
MB 280-498352/3-A		9060A		20 mL	20 mL	<2 SU			
CCV 280-498580/16		9060A		200 mL	200 mL	<2 SU		5 mL	
CCB 280-498580/17		9060A		20 mL	20 mL	<2 SU			
280-137048-D-1-C MS		9060A		50 mL	50 mL	6 SU		1.25 mL	
280-137048-D-1-D MSD		9060A		50 mL	50 mL	6 SU		1.25 mL	
280-137048-D-2-B	EW7-PM22A-3-25	9060A	D	20 mL	20 mL	6 SU			
CCV 280-498580/28		9060A		200 mL	200 mL	<2 SU		5 mL	
CCB 280-498580/29		9060A		20 mL	20 mL	<2 SU			

Batch Notes	
Acid ID	H2SO4_00205; 0.2% H2SO4_00348
Combustion Catalyst ID	18003D-01
Pipette/Syringe/Dispenser ID	BMF 5000, BMF 1000

Basis	Basis Description
D	Dissolved

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.

9060A

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137048-1

SDG No.: _____

Batch Number: 497060 Batch Start Date: 06/02/20 09:00 Batch Analyst: Gonzalez, Sofie PBatch Method: SM 2320B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	Alk daily lcs 00905				
LCS 280-497060/4		SM 2320B		InitialAmount is blank	10 mL				
MB 280-497060/5		SM 2320B		InitialAmount is blank					
CCV 280-497060/16		SM 2320B		InitialAmount is blank	10 mL				
CCB 280-497060/17		SM 2320B		InitialAmount is blank					
280-137048-F-1	EW7-PM21A-3-25	SM 2320B	T	InitialAmount is blank					
280-137048-F-2	EW7-PM22A-3-25	SM 2320B	T	InitialAmount is blank					
CCV 280-497060/25		SM 2320B		InitialAmount is blank	10 mL				
CCB 280-497060/26		SM 2320B		InitialAmount is blank					

Batch Notes	
Acid ID	0.02 H2SO4_00273
pH Buffer 1 ID	pH 2.0 Buffer_00085
pH Buffer 2 ID	pH 4.0 Buffer_00188
pH Buffer 3 ID	pH 7.0 Buffer_00280
pH Buffer 4 ID	pH 10 Buffer_00147
pH Buffer 5 ID	pH 12 Buffer_00163
pH Buffer 6 ID	pH 7.0 Buffer_00281
Sodium Carbonate ID	alk stk std_00017
Nominal Amount Used	10 mL
Pipette/Syringe/Dispenser ID	5000SM
Probe ID	PCE 80 pH 1200C_6949
Normality of First Titrant	0.02 N

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.

SM 2320B

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*** Sample Table from Analysis ***

File name: *** Sample Table from Analysis ***

Date: 02-Jun-20

Cup	Name	Type	R	Dil	Wt	Comment
5	Sync	SYNC	1		1	
0	blk	CO	1		1	
0	Read Baseline	RB	1		1	
1	Cal 0.0 PPB	C	1		1	
3	Cal 25.0 ppb	C	1		1	
4	Cal 50.0 ppb	C	1		1	
5	Cal 100.0 ppb	C	1		1	
6	Cal 500.0 ppb	C	1		1	
7	Cal 1000.0 ppb	C	1		1	
8	Cal 2500.0 ppb	C	1		1	
9	Cal 5000.0 ppb	C	1		1	
0	blank	BLNK	1		1	
0	read baseline	RB	1		1	
10	ICVL 500.0 ppb	U	1		1	
11	ICV 2500.0 ppb	U	1		1	
12	ICB	U	1		1	
0	read baseline	RB	1		1	
8	LCS	U	1		1	
8	LCSD	U	1		1	
12	MB	U	1		1	
13	280-137027-a-1	U	1		1	
14	MS 280-137027-a-1	U	1		1	
15	SD 280-137027-a-1	U	1		1	
16	280-137027-a-3	U	1		1	
17	280-137027-a-4	U	1		1	
18	280-137027-a-7	U	1		1	
19	280-137027-a-9	U	1		1	
20	280-137027-a-11	U	1		1	
21	280-137027-a-13	U	1		1	
22	280-137048-c-1	U	1		5	
0	RINSE	U	1		1	
0	read baseline	RB	1		1	
6	CCVL 500.0 ppb	U	1		1	
8	CCV 2500.0 ppb	U	1		1	
12	CCB	U	1		1	
0	read baseline	RB	1		1	
23	280-137048-c-2	U	1		10	
24	280-137043-a-1	U	1		5	
0	RINSE	U	1		1	
0	read baseline	RB	1		1	
6	CCVL 500.0 ppb	U	1		1	
8	CCV 2500.0 ppb	U	1		1	
12	CCB	U	1		1	
0	read baseline	RB	1		1	

BWM

350.1 color-00202
350.1 bleach-01254
350.1 complex-00482

pl1
L2
L2
L2
L2
L2
L2
L2
L2
L2

C1
N
N
N
N
N
N
N
N
N

L2
L2

N
N

Run Results Report

Facility Name

Facility Location

Department

Operator Name

Operator ID

Platform

Software Rev Code

Data system ID

Result path

Sample table path

Method path

Date acquired

Time acquired

BWH

BWH

FS 3000

222

57

C:\FLOW_4\060220.RST

C:\FLOW_4\060220.tbl

C:\FLOW_4\nh3.mth

02-Jun-20

12:29

----- Ammonia -----						
Date	Time	Cup	Name	Response	Calc [ppb]	Flags
02-Jun-20	10:36	5	Sync	2338	72.010	UM
02-Jun-20	10:38	0	blk	-197	9.113	UM
02-Jun-20	10:40	0	Read Baseline	0	13.983	BL UM
02-Jun-20	10:42	1	Cal 0.0 PPB	88	16.172	UM
02-Jun-20	10:44	3	Cal 25.0 ppb	414	24.226	UM
02-Jun-20	10:46	4	Cal 50.0 ppb	1168	42.930	UM
02-Jun-20	10:48	5	Cal 100.0 ppb	3065	90.109	UM
02-Jun-20	10:50	6	Cal 500.0 ppb	17793	462.259	UM
02-Jun-20	10:52	7	Cal 1000.0 ppb	39595	1032.527	UM
02-Jun-20	10:54	8	Cal 2500.0 ppb	91794	2491.772	UM
02-Jun-20	10:56	9	Cal 5000.0 ppb	172268	5001.026	UM
02-Jun-20	10:58	0	blank	61	15.495	UM
02-Jun-20	11:00	0	read baseline	0	13.983	BL UM
02-Jun-20	11:02	10	ICVL 500.0 ppb	20195	523.947	UM
02-Jun-20	11:04	11	ICV 2500.0 ppb	89173	2415.348	UM
02-Jun-20	11:06	12	ICB	-90	11.761	UM
02-Jun-20	11:08	0	read baseline	0	13.983	BL UM
02-Jun-20	11:10	8	LCS	92585	2514.909	UM
02-Jun-20	11:12	8	LCSD	91423	2480.931	
02-Jun-20	11:14	12	MB	223	19.512	UM
02-Jun-20	11:16	13	280-137027-a-1	386	23.546	
02-Jun-20	11:18	14	MS 280-137027-a-1	38459	1002.251	
02-Jun-20	11:26	15	SD 280-137027-a-1	39811	1038.297	
02-Jun-20	11:28	16	280-137027-a-3	10427	274.823	
02-Jun-20	11:30	17	280-137027-a-4	10445	275.279	
02-Jun-20	11:32	18	280-137027-a-7	-30	13.240	
02-Jun-20	11:34	19	280-137027-a-9	604	28.945	
02-Jun-20	11:36	20	280-137027-a-11	165	18.061	
02-Jun-20	11:38	21	280-137027-a-13	232	19.734	
02-Jun-20	11:40	22	280-137048-c-1	5900	804.633	
02-Jun-20	11:42	0	RINSE	16	14.391	
02-Jun-20	11:44	0	read baseline	0	13.983	BL
02-Jun-20	11:46	6	CCVL 500.0 ppb	20362	528.251	
02-Jun-20	11:48	8	CCV 2500.0 ppb	90873	2464.874	
02-Jun-20	11:50	12	CCB	48	15.173	
02-Jun-20	11:52	0	read baseline	0	13.983	BL
02-Jun-20	11:54	23	280-137048-c-2	8814	2341.269	
02-Jun-20	11:56	24	280-137043-a-1	98599	13458.838	
02-Jun-20	12:13	0	RINSE	-34	13.152	
02-Jun-20	12:15	0	read baseline	0	13.983	BL
02-Jun-20	12:17	6	CCVL 500.0 ppb	18926	491.334	
02-Jun-20	12:19	8	CCV 2500.0 ppb	91822	2492.588	
02-Jun-20	12:21	12	CCB	14	14.323	
02-Jun-20	12:23	0	read baseline	0	13.983	BL

File name: C:\FLOW_4\060220.RST

Date: 02-Jun-20

Operator: BWH

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppb)	Flags
1	5	Sync	1	SYNC		1	2338	72.009521	UM
2	0	blk	1	CO		1	-197	9.113339	UM
B	0	Read Baseline	1	RB		1	0	13.982679	BL UM
4	1	Cal 0.0 PPB	1	C		1	88	16.172270	UM
5	3	Cal 25.0 ppb	1	C		1	414	24.226191	UM
6	4	Cal 50.0 ppb	1	C		1	1168	42.929787	UM
7	5	Cal 100.0 ppb	1	C		1	3065	90.108788	UM
8	6	Cal 500.0 ppb	1	C		1	17793	462.258881	UM
9	7	Cal 1000.0 ppb	1	C		1	39595	1032.526978	UM
10	8	Cal 2500.0 ppb	1	C		1	91794	2491.771729	UM
11	9	Cal 5000.0 ppb	1	C		1	172268	5001.026367	UM
12	0	blank	1	BLNK		1	61	15.495249	UM
B	0	read baseline	1	RB		1	0	13.982678	BL UM
14	10	ICVL 500.0 ppb	1	U		1	20195	523.946533	UM
15	11	ICV 2500.0 ppb	1	U		1	89173	2415.347656	UM
16	12	ICB	1	U		1	-90	11.760719	UM
B	0	read baseline	1	RB		1	0	13.982679	BL UM
18	8	LCS	1	U		1	92585	2514.909424	UM
19	8	LCSD	1	U		1	91423	2480.930908	
20	12	MB	1	U		1	223	19.511848	UM
21	13	280-137027-a-1	1	U		1	386	23.546324	
22	14	MS 280-137027-a-1	1	U		1	38459	1002.250732	
23	15	SD 280-137027-a-1	1	U		1	39811	1038.296997	
24	16	280-137027-a-3	1	U		1	10427	274.822693	
25	17	280-137027-a-4	1	U		1	10445	275.278809	
26	18	280-137027-a-7	1	U		1	-30	13.240486	
27	19	280-137027-a-9	1	U		1	604	28.945370	
28	20	280-137027-a-11	1	U		1	165	18.061209	
29	21	280-137027-a-13	1	U		1	232	19.733507	
30	22	280-137048-c-1	1	U		5	5900	804.633301	
31	0	RINSE	1	U		1	16	14.390870	
B	0	read baseline	1	RB		1	0	13.982679	BL
33	6	CCVL 500.0 ppb	1	U		1	20362	528.250671	
34	8	CCV 2500.0 ppb	1	U		1	90873	2464.874023	
35	12	CCB	1	U		1	48	15.173365	
B	0	read baseline	1	RB		1	0	13.982679	BL
37	23	280-137048-c-2	1	U		10	8814	2341.268799	
38	24	280-137043-a-1	1	U		5	98599	13458.837891	
39	0	RINSE	1	U		1	-34	13.151737	
B	0	read baseline	1	RB		1	0	13.982679	BL
41	6	CCVL 500.0 ppb	1	U		1	18926	491.333710	
42	8	CCV 2500.0 ppb	1	U		1	91822	2492.588135	
43	12	CCB	1	U		1	14	14.322920	
B	0	read baseline	1	RB		1	0	13.982679	BL

File name: C:\FLOW_4\060220.RST

Date: 02-Jun-20

Operator: BWH

* Name	Conc	Height
* Cal 0.0 PPB	0.000000	88.419754
* Cal 25.0 ppb	25.000000	413.520050
* Cal 50.0 ppb	50.000000	1167.700928
* Cal 100.0 ppb	100.000000	3065.156738
* Cal 500.0 ppb	500.000000	17792.974609
* Cal 1000.0 ppb	1000.000000	39595.074219
* Cal 2500.0 ppb	2500.000000	91793.804688
* Cal 5000.0 ppb	5000.000000	172267.937500

Calib Coef:

 $x = cyy + by + a$

a: (intercept) 1.3983e+01

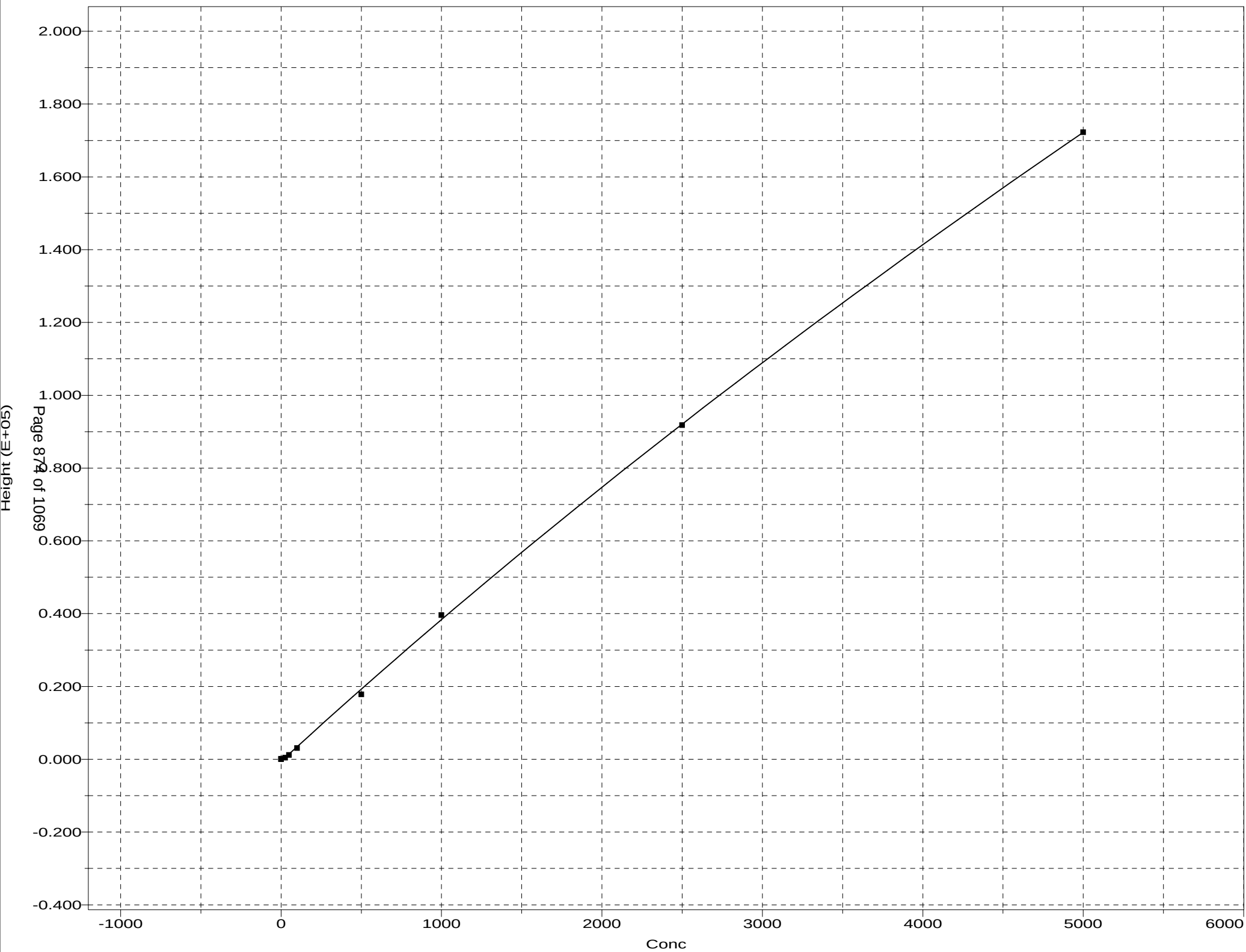
b: 2.4761e-02

c: 2.4310e-08

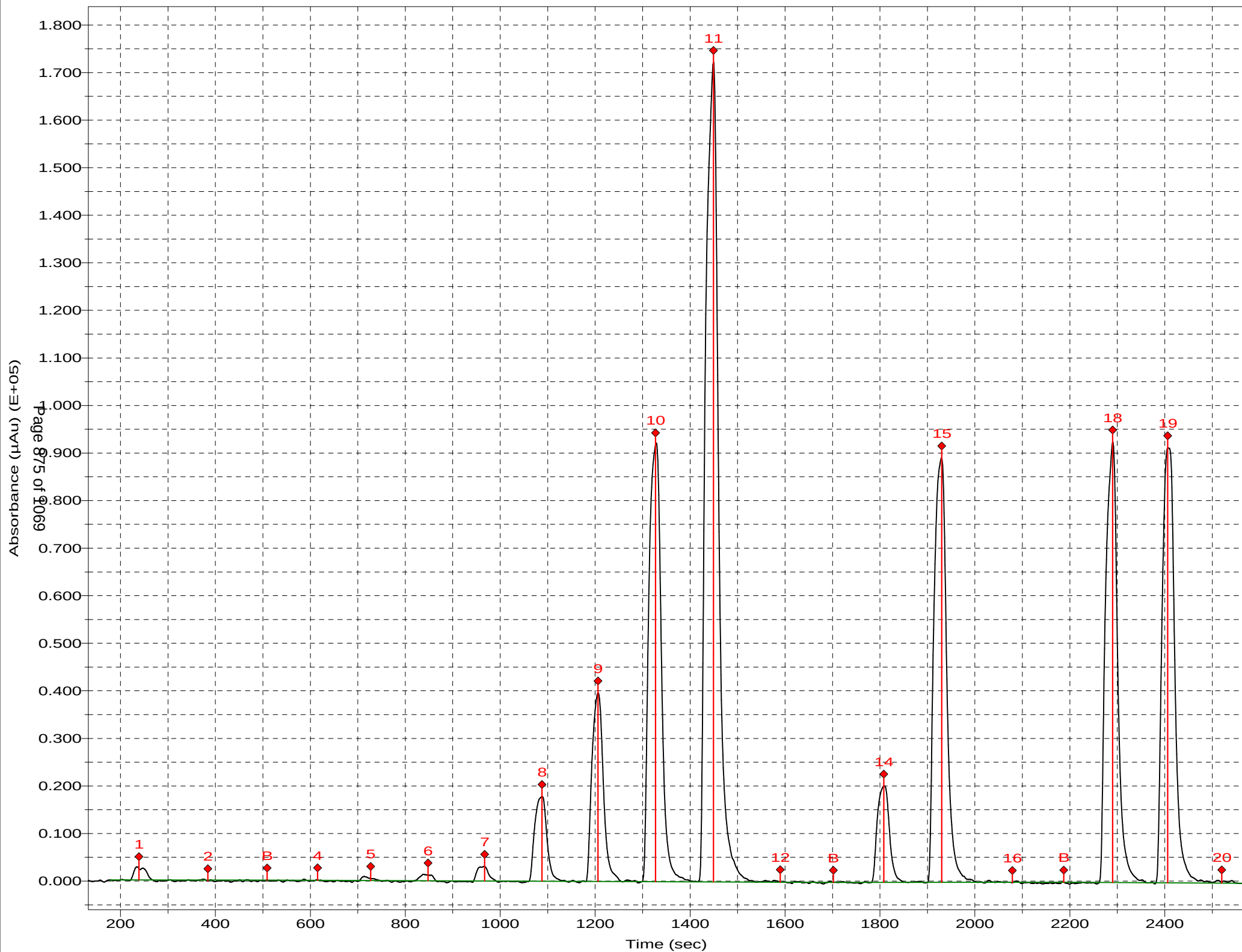
Corr Coef: 0.999932

Carryover: 0%

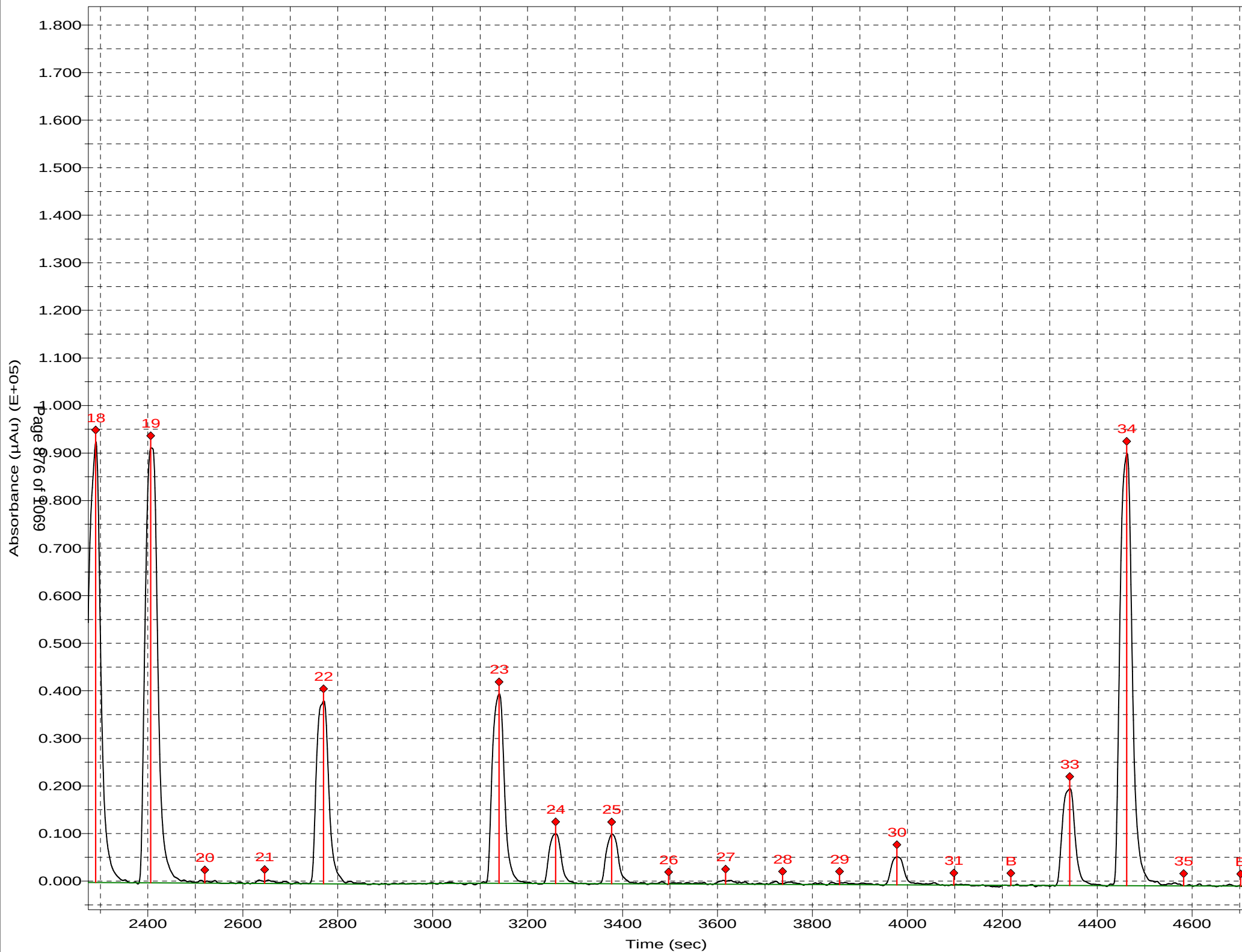
No Drift Peaks



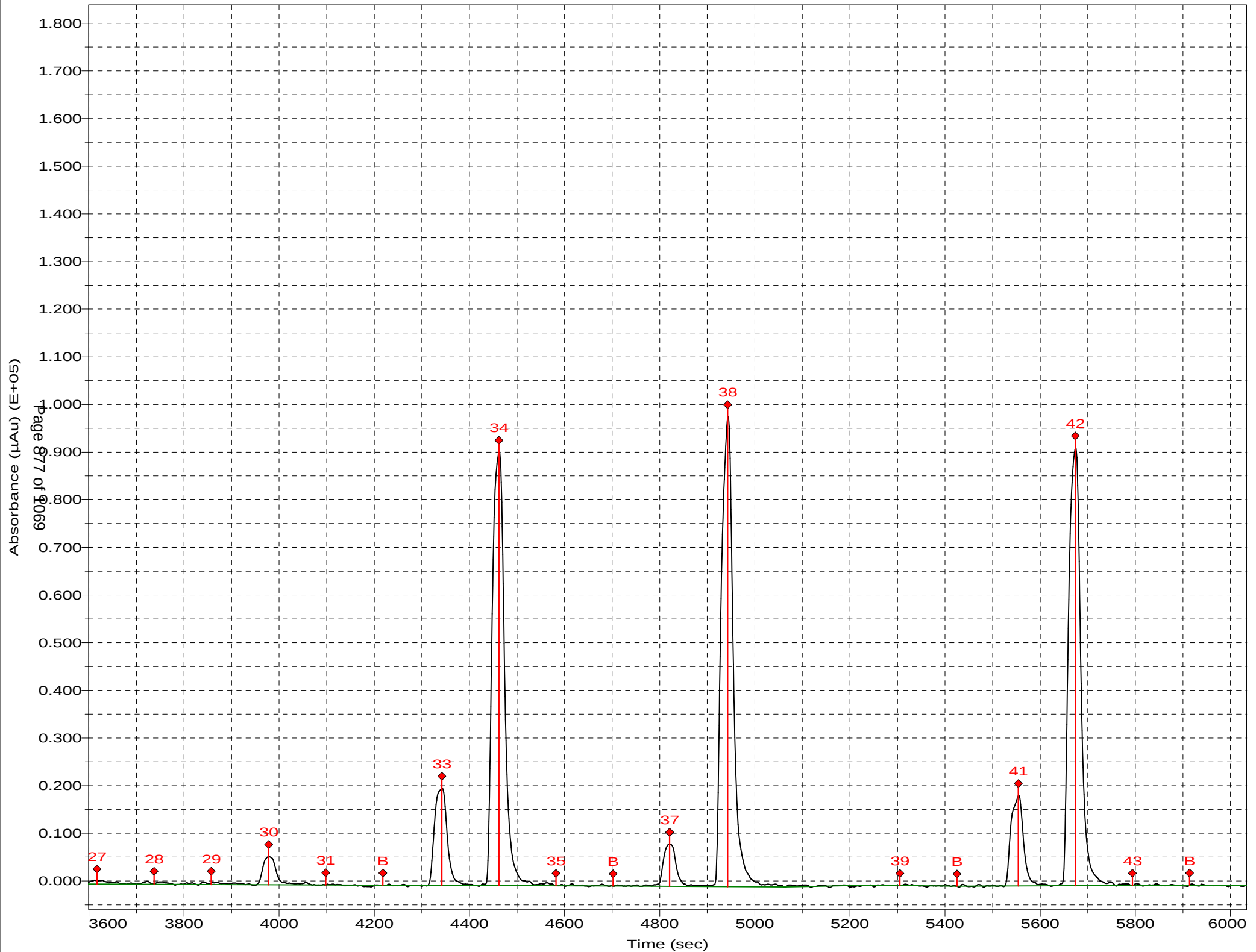
Channel 1: Ammonia



Channel 1: Ammonia



Channel 1: Ammonia



Sample Table for 060420

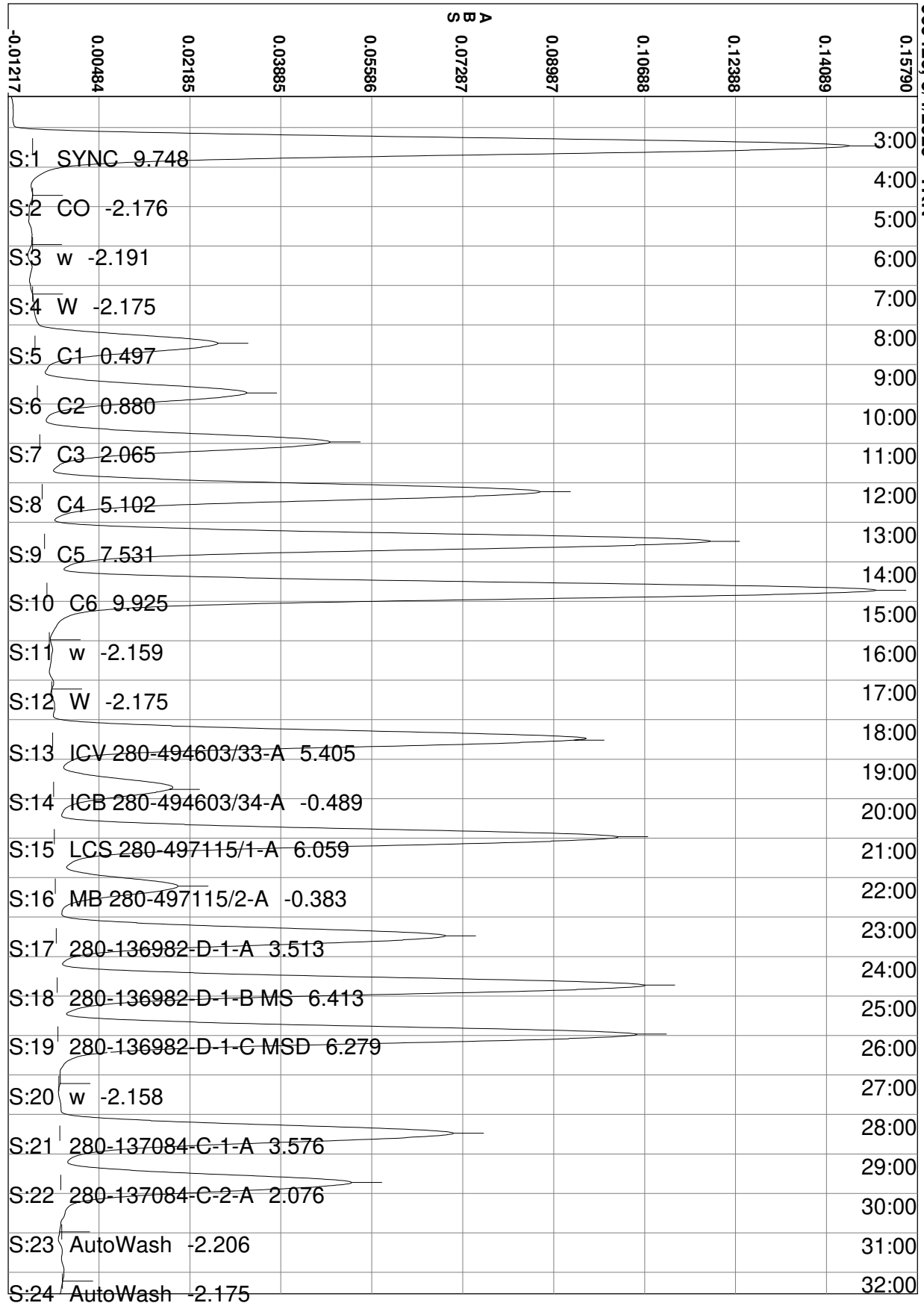
	Position Identifier		Type	Cup Type
1	1:1	SYNC	SYNC	4 ml
2	1:2	CO	Carry over	4 ml
3	1:3	w	Blank	4 ml
4	1:4	W	Wash	4 ml
5	1:5	C1	Calibrant	4 ml
6	1:6	C2	Calibrant	4 ml
7	1:7	C3	Calibrant	4 ml
8	1:8	C4	Calibrant	4 ml
9	1:9	C5	Calibrant	4 ml
10	1:10	C6	Calibrant	4 ml
11	1:13	w	Blank	4 ml
12	1:14	W	Wash	4 ml
13	1:15	ICV 280-494603/33-A	Unknown	4 ml
14	1:16	ICB 280-494603/34-A	Unknown	4 ml
15	1:17	LCS 280-497115/1-A	Unknown	4 ml
16	1:18	MB 280-497115/2-A	Unknown	4 ml
17	1:19	280-136982-D-1-A	Unknown	4 ml
18	1:20	280-136982-D-1-B MS	Unknown	4 ml
19	1:21	280-136982-D-1-C MSD	Unknown	4 ml
20	1:22	w	Blank	4 ml
21	1:23	280-137084-C-1-A	Unknown	4 ml
22	1:24	280-137084-C-2-A	Unknown	4 ml
23	1:25	280-137084-C-3-A	Unknown	4 ml
24	1:26	280-137084-C-4-A	Unknown	4 ml
25	1:27	280-137084-C-5-A	Unknown	4 ml
26	1:28	580-94973-A-1-A	Unknown	4 ml
27	1:29	580-94973-A-2-A	Unknown	4 ml
28	1:30	w	Blank	4 ml
29	1:31	CCV 280-494603/35-A	Unknown	4 ml
30	1:32	CCB 280-494603/36-A	Unknown	4 ml
31	1:33	580-94973-A-3-A	Unknown	4 ml
32	1:34	580-94973-A-4-A	Unknown	4 ml
33	1:35	280-137048-C-1-A	Unknown	4 ml
34	1:36	280-137048-C-1-B MS	Unknown	4 ml
35	1:37	280-137048-C-1-C MSD	Unknown	4 ml
36	1:38	w	Blank	4 ml
37	1:39	280-137048-C-2-A	Unknown	4 ml
38	1:40	580-94973-A-5-A	Unknown	4 ml
39	1:41	580-94973-A-6-A	Unknown	4 ml
40	1:42	580-94973-A-7-A	Unknown	4 ml
41	1:43	580-94973-A-8-A	Unknown	4 ml
42	1:44	w	Blank	4 ml
43	1:45	CCV 280-494603/35-A	Unknown	4 ml
44	1:46	CCB 280-494603/36-A	Unknown	4 ml

Sample Table for 060420

	Position Identifier		Type	Cup Type
45	1:47	580-94973-A-9-A	Unknown	4 ml
46	1:48	580-94973-A-10-A	Unknown	4 ml
47	1:49	580-94973-A-11-A	Unknown	4 ml
48	1:50	580-94973-A-12-A	Unknown	4 ml
49	1:51	w	Blank	4 ml
50	1:52	w	Blank	4 ml
51	1:53	w	Blank	4 ml
52	1:54	w	Blank	4 ml
53	1:55	w	Blank	4 ml
54	1:56	CCV 280-494603/35-A	Unknown	4 ml
55	1:57	CCB 280-494603/36-A	Unknown	4 ml

TKN									
Position	Identifier	Type	Comment	Date	Time	Total	Cor	Ht	mg/l
1	1:1	SYNC	SYNC	50;351.2	6/4/2020	4:31:18 PM	1	0.15244	9.748
2	1:2	CO	Carry over		6/4/2020	4:31:47 PM	1	-0.00001	-2.176
3	1:3	w	Blank		6/4/2020	4:33:02 PM	1	-0.00021	-2.191
4	1:4	W	Wash		6/4/2020	4:34:17 PM	1	0.00000	-2.175
5	1:5	C1	Calibrant		6/4/2020	4:35:32 PM	1	0.03416	0.497
6	1:6	C2	Calibrant		6/4/2020	4:36:47 PM	1	0.03906	0.880
7	1:7	C3	Calibrant		6/4/2020	4:38:02 PM	1	0.05421	2.065
8	1:8	C4	Calibrant		6/4/2020	4:39:17 PM	1	0.09304	5.102
9	1:9	C5	Calibrant		6/4/2020	4:40:32 PM	1	0.12410	7.531
10	1:10	C6	Calibrant		6/4/2020	4:41:47 PM	1	0.15470	9.925
		Curve #:							1
		Curve Type:							Linear
		Correlation:							0.99976
		Intercept:							0.027807
		Linear coef:							0.012786
11	1:13	w	Blank		6/4/2020	4:43:02 PM	1	0.00021	-2.159
12	1:14	W	Wash		6/4/2020	4:44:18 PM	1	0.00000	-2.175
13	1:15	ICV 280-494603/33-A	Unknown		6/4/2020	4:45:33 PM	1	0.09691	5.405
14	1:16	ICB 280-494603/34-A	Unknown		6/4/2020	4:46:48 PM	1	0.02156	-0.489
15	1:17	LCS 280-497115/1-A	Unknown		6/4/2020	4:48:03 PM	1	0.10527	6.059
16	1:18	MB 280-497115/2-A	Unknown		6/4/2020	4:49:18 PM	1	0.02291	-0.383
17	1:19	280-136982-D-1-A	Unknown		6/4/2020	4:50:33 PM	1	0.07272	3.513
18	1:20	280-136982-D-1-B MS	Unknown		6/4/2020	4:51:48 PM	1	0.10980	6.413
19	1:21	280-136982-D-1-C MSD	Unknown		6/4/2020	4:53:03 PM	1	0.10809	6.279
20	1:22	w	Blank		6/4/2020	4:54:18 PM	1	0.00022	-2.158
21	1:23	280-137084-C-1-A	Unknown		6/4/2020	4:55:33 PM	1	0.07352	3.576
22	1:24	280-137084-C-2-A	Unknown		6/4/2020	4:56:48 PM	1	0.05435	2.076
23	0	AutoWash	AutoWash		6/4/2020	4:58:03 PM	1	-0.00040	-2.206
24	0	AutoWash	AutoWash		6/4/2020	4:59:18 PM	1	0.00000	-2.175
25	1:25	280-137084-C-3-A	Unknown		6/4/2020	5:00:32 PM	1	0.06956	3.265
26	1:26	280-137084-C-4-A	Unknown		6/4/2020	5:01:47 PM	1	0.07509	3.698
27	1:27	280-137084-C-5-A	Unknown		6/4/2020	5:03:02 PM	1	0.06071	2.574
28	1:28	580-94973-A-1-A	Unknown		6/4/2020	5:04:17 PM	1	0.05275	1.951
29	1:29	580-94973-A-2-A	Unknown		6/4/2020	5:05:32 PM	1	0.05327	1.992
30	1:30	w	Blank		6/4/2020	5:06:47 PM	1	0.00076	-2.116
31	1:31	CCV 280-494603/35-A	Unknown		6/4/2020	5:08:02 PM	1	0.09434	5.204
32	1:32	CCB 280-494603/36-A	Unknown		6/4/2020	5:09:17 PM	1	0.02324	-0.358
33	1:33	580-94973-A-3-A	Unknown		6/4/2020	5:10:32 PM	1	0.05104	1.817
34	1:34	580-94973-A-4-A	Unknown		6/4/2020	5:11:47 PM	1	0.05356	2.014
35	0	AutoWash	AutoWash		6/4/2020	5:13:02 PM	1	0.00086	-2.107
36	0	AutoWash	AutoWash		6/4/2020	5:14:17 PM	1	0.00000	-2.175
37	1:35	280-137048-C-1-A	Unknown		6/4/2020	5:15:32 PM	1	0.05089	1.805
38	1:36	280-137048-C-1-B MS	Unknown		6/4/2020	5:16:47 PM	1	0.08715	4.641

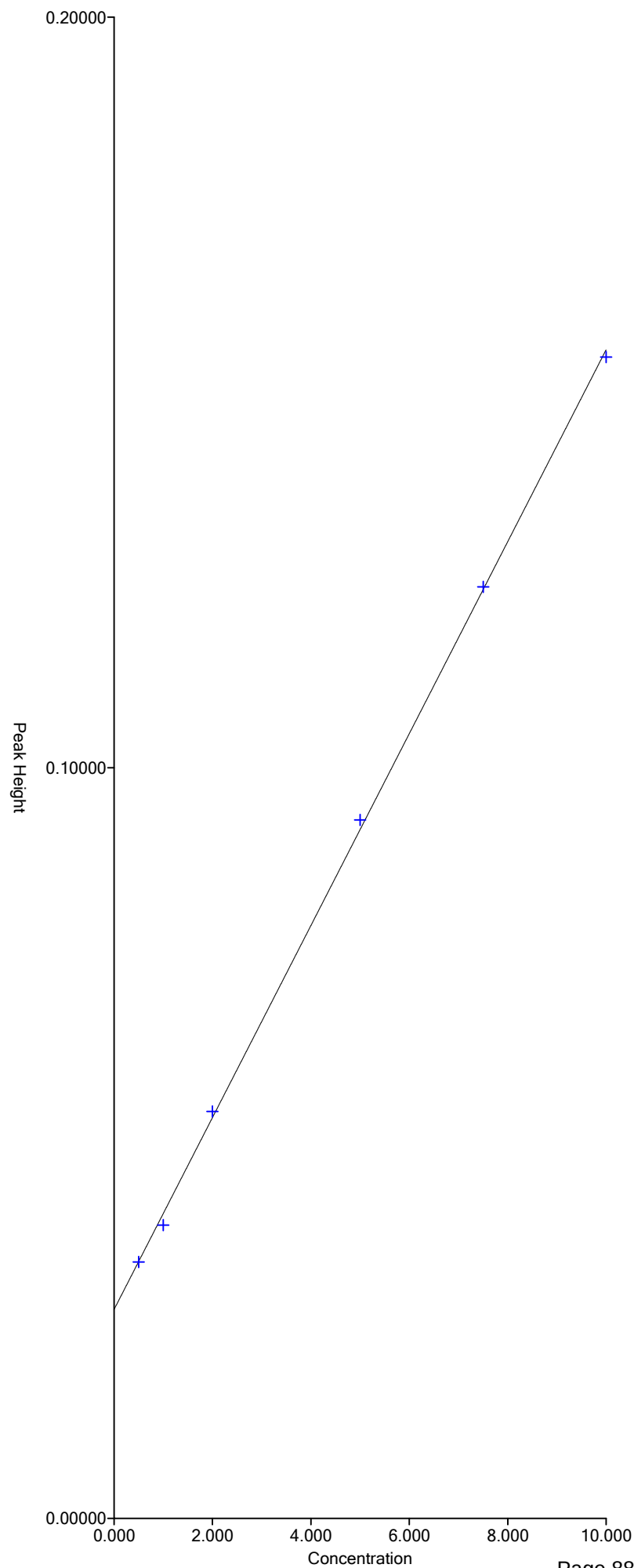
TKN									
Position	Identifier	Type	Comment	Date	Time	Total	Corr	Ht	mg/l
39	1:37	280-137048-C-1-C MSD	Unknown		6/4/2020	5:18:02 PM	1	0.08656	4.595
40	1:38	w	Blank		6/4/2020	5:19:18 PM	1	-0.00067	-2.227
41	1:39	280-137048-C-2-A	Unknown		6/4/2020	5:20:33 PM	1	0.06609	2.994
42	1:40	580-94973-A-5-A	Unknown		6/4/2020	5:21:48 PM	1	0.04236	1.138
43	1:41	580-94973-A-6-A	Unknown		6/4/2020	5:23:03 PM	1	0.04760	1.548
44	1:42	580-94973-A-7-A	Unknown		6/4/2020	5:24:18 PM	1	0.05195	1.888
45	1:43	580-94973-A-8-A	Unknown		6/4/2020	5:25:33 PM	1	0.05453	2.090
46	1:44	w	Blank		6/4/2020	5:26:48 PM	1	0.00249	-1.980
47	0	AutoWash	AutoWash		6/4/2020	5:28:03 PM	1	0.00280	-1.956
48	0	AutoWash	AutoWash		6/4/2020	5:29:18 PM	1	0.00000	-2.175
49	1:45	CCV 280-494603/35-A	Unknown		6/4/2020	5:30:33 PM	1	0.09392	5.171
50	1:46	CCB 280-494603/36-A	Unknown		6/4/2020	5:31:48 PM	1	0.02306	-0.371
51	1:47	580-94973-A-9-A	Unknown		6/4/2020	5:33:03 PM	1	0.05029	1.758
52	1:48	580-94973-A-10-A	Unknown		6/4/2020	5:34:17 PM	1	0.05021	1.752
53	1:49	580-94973-A-11-A	Unknown		6/4/2020	5:35:32 PM	1	0.05087	1.804
54	1:50	580-94973-A-12-A	Unknown		6/4/2020	5:36:47 PM	1	0.05143	1.847
55	1:51	w	Blank		6/4/2020	5:38:02 PM	1	-0.00200	-2.332
56	1:52	w	Blank		6/4/2020	5:39:17 PM	1	-0.00399	-2.487
57	1:53	w	Blank		6/4/2020	5:40:32 PM	1	0.09702	5.413
58	1:54	w	Blank		6/4/2020	5:41:47 PM	1	0.00035	-2.147
59	0	AutoWash	AutoWash		6/4/2020	5:43:02 PM	1	0.00156	-2.053
60	0	AutoWash	AutoWash		6/4/2020	5:44:17 PM	1	0.00000	-2.175
61	1:55	w	Blank		6/4/2020	5:45:32 PM	1	0.00347	-1.903
62	1:56	CCV 280-494603/35-A	Unknown		6/4/2020	5:46:47 PM	1	0.09758	5.457
63	1:57	CCB 280-494603/36-A	Unknown		6/4/2020	5:48:02 PM	1	0.02788	0.006
64	0	AutoWash	AutoWash		6/4/2020	5:49:17 PM	1	0.00167	-2.044
65	0	AutoWash	AutoWash		6/4/2020	5:50:32 PM	1	0.00000	-2.175



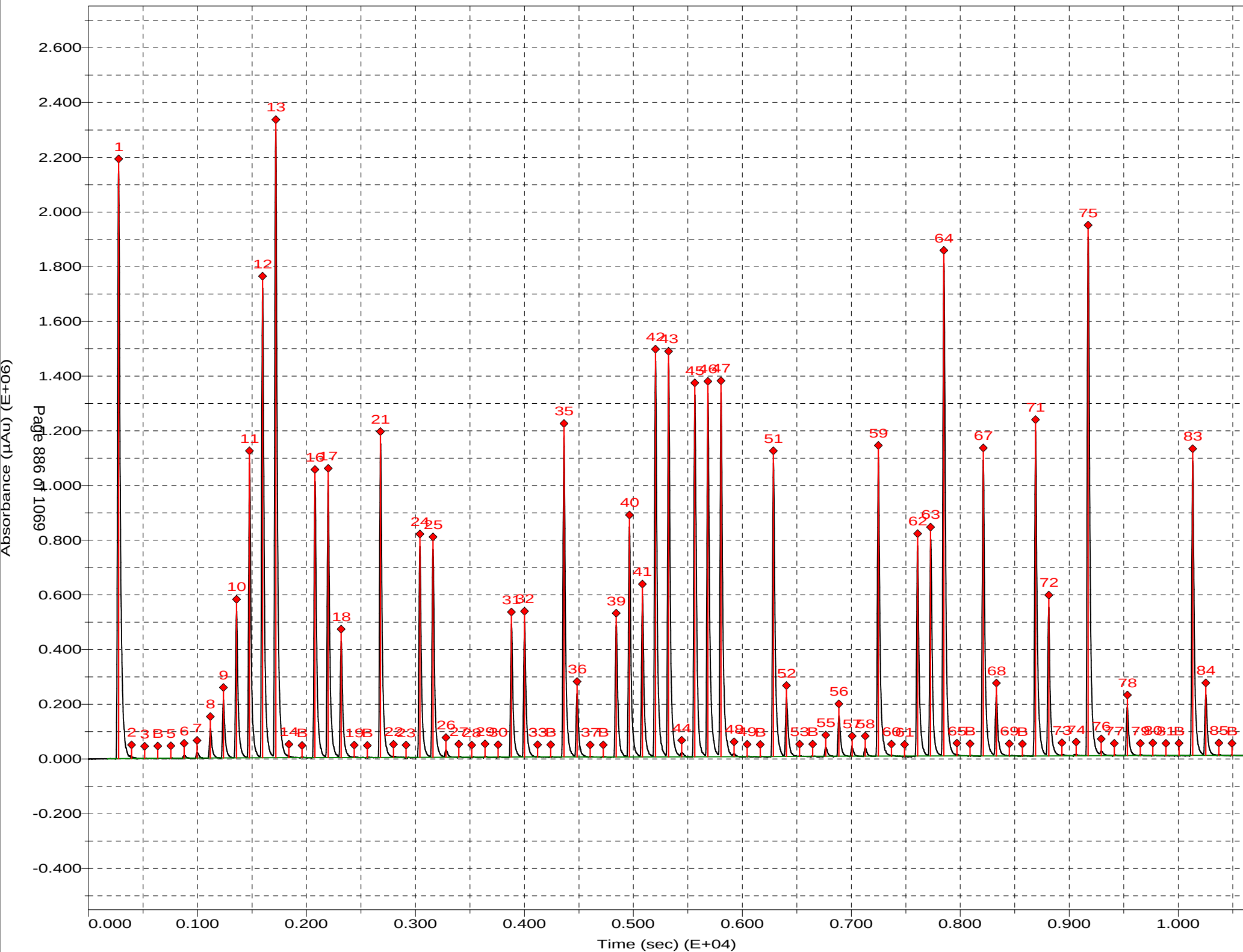
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S:25	280-137084-C-3-A	3.265									
S:26	280-137084-C-4-A	3.698									
S:27	280-137084-C-5-A	2.574									
S:28	580-94973-A-1-A	1.951									
S:29	580-94973-A-2-A	1.992									
S:30	w	-2.116									
S:31	CCV 280-494603/35-A	5.204									
S:32	CCB 280-494603/36-A	-0.358									
S:33	580-94973-A-3-A	1.817									
S:34	580-94973-A-4-A	2.014									
S:35	AutoWash	-2.107									
S:36	AutoWash	-2.175									
S:37	280-137048-C-1-A	1.805									
S:38	280-137048-C-1-B MS	4.641									
S:39	280-137048-C-1-C MSD	4.595									
S:40	w	-2.227									
S:41	280-137048-C-2-A	2.994									
S:42	580-94973-A-5-A	1.138									
S:43	580-94973-A-6-A	1.548									
S:44	580-94973-A-7-A	1.888									
S:45	580-94973-A-8-A	2.090									
S:46	w	-1.980									
S:47	AutoWash	-1.956									
S:48	AutoWash	-2.175									

0.15790	0.14089	0.12388	0.10688	0.08987	0.07287	0.05586	0.03885	0.02185	0.00484	-0.01217
1:03:00	S:49	CCV 280-494603/35-A	5.171							
1:04:00	S:50	CCB 280-494603/36-A	-0.371							
1:05:00										
1:06:00	S:51	580-94973-A-9-A	1.758							
1:07:00	S:52	580-94973-A-10-A	1.752							
1:08:00	S:53	580-94973-A-11-A	1.804							
1:09:00	S:54	580-94973-A-12-A	1.847							
1:10:00										
1:11:00	S:55	w	-2.332							
1:12:00	S:56	w	-2.487							
1:13:00	S:57	w	5.413							
1:14:00	S:58	w	-2.147							
1:15:00										
1:16:00	S:59	AutoWash	-2.053							
1:17:00										
1:18:00	S:60	AutoWash	-2.175							
1:19:00	S:61	w	-1.903							
1:20:00	S:62	CCV 280-494603/35-A	5.457							
1:21:00	S:63	CCB 280-494603/36-A	0.006							
1:22:00	S:64	AutoWash	-2.044							
1:23:00	S:65	AutoWash	-2.175							
1:24:00										
1:25:00										
1:26:00										
1:27:00										
1:28:00										
1:29:00										
1:30:00										
1:31:00										
1:32:00										
1:33:00										

Calibration for TKN



Channel 3: Nitrate as N



Run Results Report

Facility Name	
Facility Location	
Department	
Operator Name	SVC
Operator ID	SVC
Platform	FS III/IV/3100
Software Rev Code	240
Data system ID	54
Result path	C:\FLOW_4\060120.RST
Sample table path	C:\FLOW_4\060120.tbl
Method path	C:\FLOW_4\nox.mth
Date acquired	01-Jun-20
Time acquired	19:39

Date	Time	Cup	Name
01-Jun-20	16:42	109	SYNC
01-Jun-20	16:44	0	Carryover
01-Jun-20	16:46	0	Carryover
01-Jun-20	16:48	0	(Statistics)
01-Jun-20	16:50	101	read baseline
01-Jun-20	16:52	102	Cal 0.00 ppb
01-Jun-20	16:54	103	Cal 50.0 ppb
01-Jun-20	16:56	104	Cal 100 ppb
01-Jun-20	16:58	105	Cal 500 ppb
01-Jun-20	17:00	106	Cal 1000 ppb
01-Jun-20	17:02	107	Cal 2500 ppb
01-Jun-20	17:04	108	Cal 5000 ppb
01-Jun-20	17:06	109	Cal 7500 ppb
01-Jun-20	17:08	0	Cal 10000 ppb
01-Jun-20	17:10	0	Blank
01-Jun-20	17:12	110	Read Baseline
01-Jun-20	17:14	111	5000 PPB NO2
01-Jun-20	17:16	112	ICV 5000 PPB
01-Jun-20	17:18	0	ICV 2000 PPB
01-Jun-20	17:20	0	ICB
01-Jun-20	17:22	107	Read Baseline
01-Jun-20	17:24	0	LCS
01-Jun-20	17:26	113	MB
01-Jun-20	17:28	114	280-136792-B-1
01-Jun-20	17:30	115	ms 280-136792-B-1
01-Jun-20	17:32	116	msd 280-136792-B-1
01-Jun-20	17:34	117	280-136792-B-2
01-Jun-20	17:36	118	280-136792-B-3
01-Jun-20	17:38	119	280-136792-B-4
01-Jun-20	17:40	120	280-136792-B-5
01-Jun-20	17:42	121	280-136792-B-6
01-Jun-20	17:44	122	280-136792-B-1
01-Jun-20	17:46	0	280-136794-B-1
01-Jun-20	17:48	0	Rinse
01-Jun-20	17:50	107	Read Baseline
01-Jun-20	17:52	105	CCV 5000 ppb
01-Jun-20	17:54	0	CCVL 1000 ppb
01-Jun-20	17:56	0	CCB
01-Jun-20	17:58	123	Read Baseline
01-Jun-20	18:00	124	280-136977-C-1
01-Jun-20	18:02	125	280-136977-C-2
01-Jun-20	18:04	126	280-136977-C-3
01-Jun-20	18:06	127	ms 280-136977-C-3
01-Jun-20	18:08	128	msd 280-136977-C-3
01-Jun-20	18:08	128	280-136925-C-3

Result path	C:\FLOW_4\060120.RST
Sample table path	C:\FLOW_4\060120.tbl
Method path	C:\FLOW_4\nox.mth
Date acquired	01-Jun-20
Time acquired	19:39

Date	Time	Cup	Name
01-Jun-20	18:10	129	280-136925-B-2
01-Jun-20	18:12	130	280-136925-B-3
01-Jun-20	18:14	131	280-136925-B-4
01-Jun-20	18:16	132	280-136936-C-1
01-Jun-20	18:18	0	Rinse
01-Jun-20	18:20	0	Read Baseline
01-Jun-20	18:22	107	CCV 5000 ppb
01-Jun-20	18:24	105	CCVL 1000 ppb
01-Jun-20	18:26	0	CCB
01-Jun-20	18:28	0	Read Baseline
01-Jun-20	18:30	133	280-136936-C-2
01-Jun-20	18:32	134	280-136936-C-3
01-Jun-20	18:34	135	280-136936-C-4
01-Jun-20	18:36	136	280-136936-C-5
01-Jun-20	18:38	107	LCS
01-Jun-20	18:40	0	MB
01-Jun-20	18:42	137	280-136936-C-6
01-Jun-20	18:44	138	ms 280-136936-C-6
01-Jun-20	18:46	139	msd 280-136936-C-6
01-Jun-20	18:48	140	280-137048-C-1
01-Jun-20	18:50	0	Rinse
01-Jun-20	18:52	0	Read Baseline
01-Jun-20	18:54	107	CCV 5000 ppb
01-Jun-20	18:56	105	CCVL 1000 ppb
01-Jun-20	18:58	0	CCB
01-Jun-20	19:00	0	Read Baseline
01-Jun-20	19:02	141	280-137048-C-2
01-Jun-20	19:04	142	280-136939-C-1
01-Jun-20	19:06	143	280-136975-K-1
01-Jun-20	19:08	144	280-136975-K-2
01-Jun-20	19:10	145	280-136975-K-3
01-Jun-20	19:12	146	280-136975-K-5
01-Jun-20	19:14	147	280-136975-K-7
01-Jun-20	19:16	148	280-137098-H-2
01-Jun-20	19:18	149	d
01-Jun-20	19:20	150	d
01-Jun-20	19:22	0	Rinse
01-Jun-20	19:24	0	Read Baseline
01-Jun-20	19:26	107	CCV 5000 ppb
01-Jun-20	19:28	105	CCVL 1000 ppb
01-Jun-20	19:30	0	CCB
01-Jun-20	19:32	0	Read Baseline

Facility Name
Facility Location
Department
Operator Name
Operator ID
Platform
Software Rev Code
Data system ID

SVC
SVC
FS III/IV/3100
240
54

Result path
Sample table path
Method path
Date acquired
Time acquired

C:\FLOW_4\060120.RST
C:\FLOW_4\060120.tbl
C:\FLOW_4\nox.mth
01-Jun-20
19:39

Name	Response	Nitrate as N	
		Mean	Mean
			Calc
			[ppb]
SYNC	2148346	9404.294	
Carryover	5293	30.885	
Carryover (Statistics)	-11	5.807	
read baseline	0	5.857	BL
Cal 0.00 ppb	487	8.162	
Cal 50.0 ppb	9906	52.687	
Cal 100 ppb	19964	100.205	
Cal 500 ppb	106770	508.920	
Cal 1000 ppb	212963	1005.530	
Cal 2500 ppb	535191	2489.649	
Cal 5000 ppb	1077189	4908.681	
Cal 7500 ppb	1713905	7626.607	
Cal 10000 ppb	2284734	9949.530	
Blank	-1238	0.002	
Read Baseline	0	5.857	BL
5000 PPB NO2	1009128	4610.238	
ICV 5000 PPB	1010446	4616.029	
ICV 2000 PPB	422698	1975.421	
ICB	265	7.109	
Read Baseline	0	5.857	BL
LCS	1147106	5213.672	
MB	859	9.919	
280-136792-B-1	1019	10.675	
ms 280-136792-B-1	771864	3557.888	
msd 280-136792-B-1	759400	3502.093	
280-136792-B-2	25859	128.040	
280-136792-B-3	3148	20.745	
280-136792-B-4	-208	4.873	
280-136792-B-5	3594	22.853	
280-136792-B-6	1001	10.589	
280-136794-C-1	485955	11325.471	
280-136794-C-1	487195	11353.807	
280-136794-B-1	-741	2.353	
Rinse	0	5.857	BL
Read Baseline	0	5.857	BL
CCV 5000 ppb	1174700	5333.599	
CCVL 1000 ppb	228489	1077.826	
CCB	-1065	0.821	
Read Baseline	0	5.857	BL
280-136977-C-1	481202	11216.869	
280-136977-C-2	838806	3856.678	
280-136977-C-3	585474	13590.747	
ms 280-136977-C-3	1444819	32471.465	
msd 280-136977-C-3	1434521	32252.426	
280-136925-A-1	12692	32252.426	

Result path C:\FLOW_4\060120.RST
Sample table path C:\FLOW_4\060120.tbl
Method path C:\FLOW_4\nox.mth
Date acquired 01-Jun-20
Time acquired 19:39

Name	Response	Nitrate as N	
		Mean Response	Mean Calc [ppb]
280-136925-B-2	1322746	59727.340	
280-136925-B-3	1324713	59811.742	
280-136925-B-4	1326566	59891.270	
280-136936-C-1	6342	35.843	
Rinse	606	8.725	
Read Baseline	0	5.857	BL
CCV 5000 ppb	1073422	4892.201	
CCVL 1000 ppb	212160	1001.788	
CCB	-279	4.537	
Read Baseline	0	5.857	BL
280-136936-C-2	33349	163.390	
280-136936-C-3	146813	696.617	
280-136936-C-4	29295	144.259	
280-136936-C-5	29306	144.312	
LCS	1091587	4971.622	
MB	-3509	-10.739	L0
280-136936-C-6	-1998	-3.594	L0
ms 280-136936-C-6	768827	3544.298	
msd 280-136936-C-6	790423	3640.872	
280-137048-C-1	1802331	7993.484	
Rinse	-1927	-3.257	L0
Read Baseline	0	5.857	BL
CCV 5000 ppb	1081459	4927.356	
CCVL 1000 ppb	219650	1036.679	
CCB	429	7.889	
Read Baseline	0	5.857	BL
280-137048-C-2	1185979	5382.548	
280-136939-C-1	541312	25175.059	
280-136975-K-1	2305	16.757	
280-136975-K-2	6342	35.844	
280-136975-K-3	1896016	8379.367	
280-136975-K-5	12393	64.442	
280-136975-K-7	293	7.242	
280-137098-H-2	177217	838.780	
d	-115	5.316	
d	1543	13.152	
Rinse	-618	2.935	
Read Baseline	0	5.857	BL
CCV 5000 ppb	1076674	4906.429	
CCVL 1000 ppb	217620	1027.224	
CCB	130	6.471	
Read Baseline	0	5.857	BL

File name: C:\FLOW_4\060120.RST
Date: 01-Jun-20
Operator: svc

* Name	Conc	Height
* Cal 0.00 ppb	0.000000	487.284912
* Cal 50.0 ppb	50.000000	9905.567383
* Cal 100 ppb	100.000000	19963.642578
* Cal 500 ppb	500.000000	106770.148438
* Cal 1000 ppb	1000.000000	212962.796875
* Cal 2500 ppb	2500.000000	535191.375000
* Cal 5000 ppb	5000.000000	1077188.875000
* Cal 7500 ppb	7500.000000	1713905.125000
* Cal 10000 ppb	10000.000000	2284734.250000

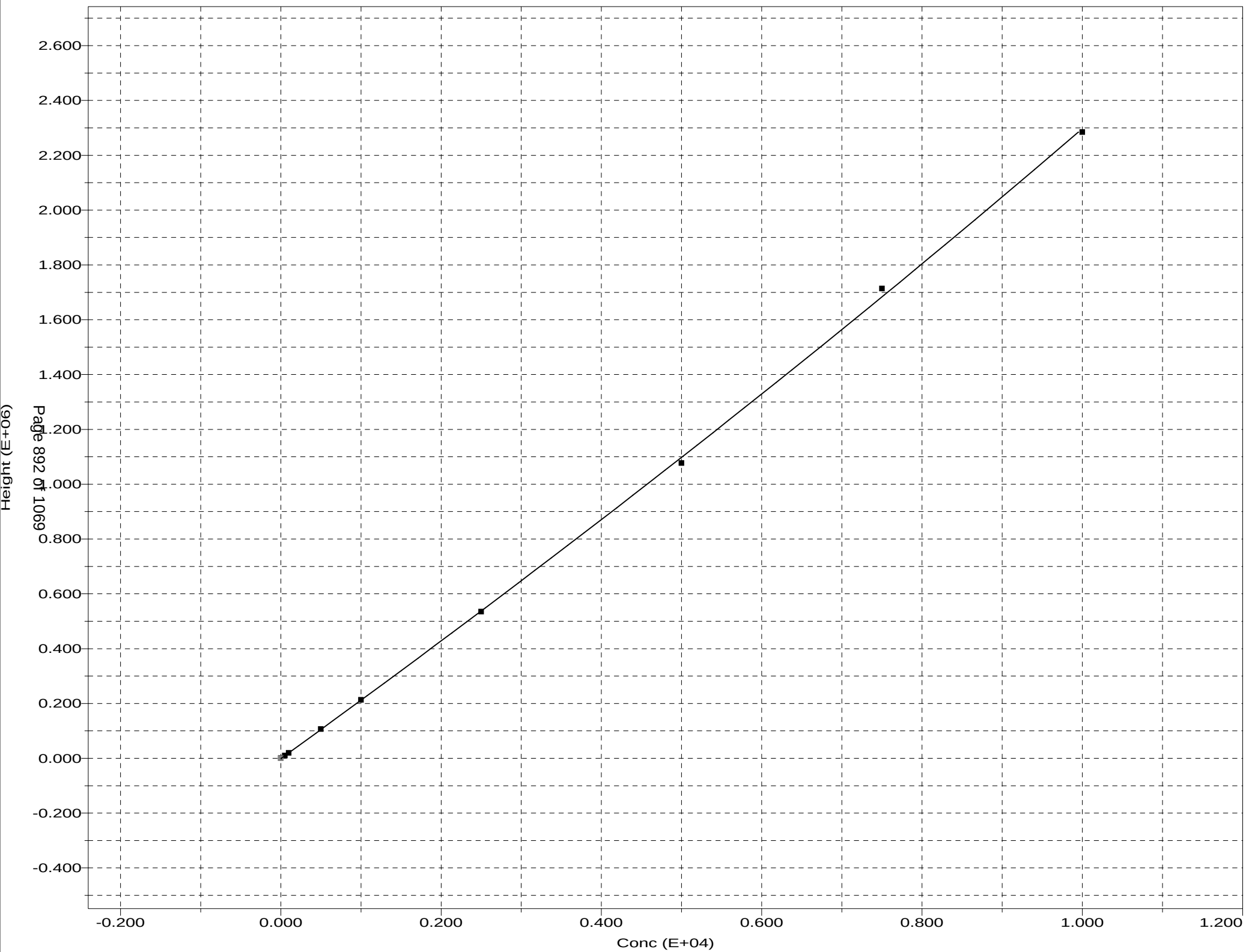
Calib Coef:
x=cyy+by+a
a: (intercept) 5.8575e+00
b: 4.7293e-03
c: -1.6502e-10

Corr Coef: 0.999876

Carryover: 0.246%

No Drift Peaks

Nitrate as N:Calibration 1: Peak 5-86



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Cup	Name	Type	R	Dil	Wt	Vial	Comment
135	280-136936-C-4	U	1		1	1	22
136	280-136936-C-5	U	1		1	1	22
107	LCS	U	1		1	1	
0	MB	U	1		1	1	
137	280-136936-C-6	U	1		1	1	22
138	ms 280-136936-C-6	U	1		1	1	22
139	msd 280-136936-C-6	U		1	1	1	22
140	280-137048-C-1	U	1		1	1	22
0	Rinse	U	1		1	1	
0	Read Baseline	RB	1		1	1	
107	CCV 5000 ppb	CCV	1		1	1	
105	CCVL 1000 ppb	CCV	1		1	1	
0	CCB	U	1		1	1	
0	Read Baseline	RB	1		1	1	
141	280-137048-C-2	U	1		1	1	22
142	280-136939-C-1	U	1	10	1	1	22
143	280-136975-K-1	U	1		1	1	22
144	280-136975-K-2	U	1		1	1	22
145	280-136975-K-3	U	1		1	1	22
146	280-136975-K-5	U	1		1	1	22
147	280-136975-K-7	U	1		1	1	22
148	280-137098-H-2	U	1		1	1	22
149	d	U	1		1	1	
150	d	U	1		1	1	
0	Rinse	U	1		1	1	
0	Read Baseline	RB	1		1	1	
107	CCV 5000 ppb	CCV	1		1	1	
105	CCVL 1000 ppb	CCV	1		1	1	
0	CCB	U	1		1	1	
0	Read Baseline	RB	1		1	1	

TALS Raw Data Report

Job Number: 280-137021-1
LIMS Batch: 497042
Equipment: NOEQUIP

Laboratory: Eurofins TestAmerica, Denver

RS# 1	Lab ID: LCS 280-497037/1-A	Inj Date: 6/2/2020 10:59:00AM	Dil: 1.0	Meth: 9034				
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		12 mg/L	mg/L	66	44	110	
	Sulfide as H2S		12.75 mg/L	mg/L				
RS# 2	Lab ID: MB 280-497037/2-A	Inj Date: 6/2/2020 10:59:00AM	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: 580-94955-J-1-A	Inj Date: 6/2/2020 10:59:00AM	Dil: 1.0	Meth: 9034				
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		-10.4 mg/L	mg/L				
	Sulfide as H2S		-11.05 mg/L	mg/L				
RS# 4	Lab ID: 580-94955-J-1-B MS	Inj Date: 6/2/2020 10:59:00AM	Dil: 1.0	Meth: 9034				
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		11.2 mg/L	mg/L	61	44	110	
	Sulfide as H2S		11.9 mg/L	mg/L				
RS# 5	Lab ID: 580-94955-J-1-C MSD	Inj Date: 6/2/2020 10:59:00AM	Dil: 1.0	Meth: 9034				
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		8 mg/L	mg/L	44	44	110	33 20
	Sulfide as H2S		8.5 mg/L	mg/L				
RS# 6	Lab ID: 280-137021-R-1-A	Inj Date: 6/2/2020 10:59:00AM	Dil: 1.0	Meth: 9034				
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		-3.2 mg/L	mg/L				
	Sulfide as H2S		-3.4 mg/L	mg/L				
RS# 7	Lab ID: 280-137021-R-2-A	Inj Date: 6/2/2020 10:59:00AM	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	mg/L				
	Sulfide as H2S		-0.85 mg/L	mg/L				
RS# 8	Lab ID: 280-137021-R-5-A	Inj Date: 6/2/2020 10:59:00AM	Dil: 1.0	Meth: 9034				
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		00000003 mg/L	1.6 J mg/L				
	Sulfide as H2S		00000003 mg/L	1.7 J mg/L				

TALS Raw Data Report

Job Number: 280-137048-1
LIMS Batch: 497042
Equipment: NOEQUIP

Laboratory: Eurofins TestAmerica, Denver

RS# 1	Lab ID: LCS 280-497037/1-A	Inj Date: 6/2/2020 10:59:00AM			Dil: 1.0	Meth: 9034		
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		12 mg/L	mg/L	66	44	110	
	Sulfide as H2S		12.75 mg/L	mg/L				
RS# 2	Lab ID: MB 280-497037/2-A	Inj Date: 6/2/2020 10:59:00AM			Dil: 1.0	Meth: 9034		
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		0 mg/L	1.9 U mg/L				
	Sulfide as H2S		0 mg/L	2.0 U mg/L				
RS# 3	Lab ID: 580-94955-J-1-A	Inj Date: 6/2/2020 10:59:00AM			Dil: 1.0	Meth: 9034		
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		-10.4 mg/L	1.9 U mg/L				
	Sulfide as H2S		-11.05 mg/L	2.0 U mg/L				
RS# 4	Lab ID: 580-94955-J-1-B MS	Inj Date: 6/2/2020 10:59:00AM			Dil: 1.0	Meth: 9034		
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		11.2 mg/L	mg/L	61	44	110	
	Sulfide as H2S		11.9 mg/L	mg/L				
RS# 5	Lab ID: 580-94955-J-1-C MSD	Inj Date: 6/2/2020 10:59:00AM			Dil: 1.0	Meth: 9034		
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		8 mg/L	mg/L	44	44	110	33 20
	Sulfide as H2S		8.5 mg/L	mg/L				
RS# 9	Lab ID: 280-137048-E-1-A	Inj Date: 6/2/2020 10:59:00AM			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	1.9 U mg/L				
	Sulfide as H2S		-0.85 mg/L	2.0 U mg/L				
RS# 10	Lab ID: 280-137048-E-2-A	Inj Date: 6/2/2020 10:59:00AM			Dil: 1.0	Meth: 9034		
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		0 mg/L	1.9 U mg/L				
	Sulfide as H2S		0 mg/L	2.0 U mg/L				

TALS Raw Data Report

Job Number: 280-137074-1
LIMS Batch: 497042
Equipment: NOEQUIP

Laboratory: Eurofins TestAmerica, Denver

RS# 1	Lab ID: LCS 280-497037/1-A	Inj Date: 6/2/2020 10:59:00AM				Dil: 1.0		Meth: 9034	
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt	
	Sulfide		12 mg/L	mg/L	66	44	110		
	Sulfide as H2S		12.75 mg/L	mg/L					
RS# 2	Lab ID: MB 280-497037/2-A	Inj Date: 6/2/2020 10:59:00AM				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: 580-94955-J-1-A	Inj Date: 6/2/2020 10:59:00AM				Dil: 1.0		Meth: 9034	
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt	
	Sulfide		-10.4 mg/L	mg/L					
	Sulfide as H2S		-11.05 mg/L	mg/L					
RS# 4	Lab ID: 580-94955-J-1-B MS	Inj Date: 6/2/2020 10:59:00AM				Dil: 1.0		Meth: 9034	
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt	
	Sulfide		11.2 mg/L	mg/L	61	44	110		
	Sulfide as H2S		11.9 mg/L	mg/L					
RS# 5	Lab ID: 580-94955-J-1-C MSD	Inj Date: 6/2/2020 10:59:00AM				Dil: 1.0		Meth: 9034	
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt	
	Sulfide		8 mg/L	mg/L	44	44	110	33 20	
	Sulfide as H2S		8.5 mg/L	mg/L					
RS# 11	Lab ID: 280-137074-Q-1-A	Inj Date: 6/2/2020 10:59:00AM				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: 280-137084-1
LIMS Batch: 497042
Equipment: NOEQUIP

Laboratory: Eurofins TestAmerica, Denver

RS# 1	Lab ID: LCS 280-497037/1-A	Inj Date: 6/2/2020 10:59:00AM			Dil: 1.0	Meth: 9034		
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		12 mg/L	mg/L	66	44	110	
	Sulfide as H2S		12.75 mg/L	mg/L				
RS# 2	Lab ID: MB 280-497037/2-A	Inj Date: 6/2/2020 10:59:00AM			Dil: 1.0	Meth: 9034		
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		0 mg/L	1.9 U mg/L				
	Sulfide as H2S		0 mg/L	2.0 U mg/L				
RS# 3	Lab ID: 580-94955-J-1-A	Inj Date: 6/2/2020 10:59:00AM			Dil: 1.0	Meth: 9034		
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		-10.4 mg/L	1.9 U mg/L				
	Sulfide as H2S		-11.05 mg/L	2.0 U mg/L				
RS# 4	Lab ID: 580-94955-J-1-B MS	Inj Date: 6/2/2020 10:59:00AM			Dil: 1.0	Meth: 9034		
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		11.2 mg/L	mg/L	61	44	110	
	Sulfide as H2S		11.9 mg/L	mg/L				
RS# 5	Lab ID: 580-94955-J-1-C MSD	Inj Date: 6/2/2020 10:59:00AM			Dil: 1.0	Meth: 9034		
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		8 mg/L	mg/L	44	44	110	33 20
	Sulfide as H2S		8.5 mg/L	mg/L				
RS# 12	Lab ID: 280-137084-E-1-A	Inj Date: 6/2/2020 10:59:00AM			Dil: 1.0	Meth: 9034		
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		0 mg/L	1.9 U mg/L				
	Sulfide as H2S		0 mg/L	2.0 U mg/L				
RS# 13	Lab ID: 280-137084-E-2-A	Inj Date: 6/2/2020 10:59:00AM			Dil: 1.0	Meth: 9034		
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		-3.2 mg/L	1.9 U mg/L				
	Sulfide as H2S		-3.4 mg/L	2.0 U mg/L				
RS# 14	Lab ID: 280-137084-E-3-A	Inj Date: 6/2/2020 10:59:00AM			Dil: 1.0	Meth: 9034		
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		99999968 mg/L	0.80 J mg/L				
	Sulfide as H2S		99999966 mg/L	0.85 J mg/L				
RS# 15	Lab ID: 280-137084-E-4-A	Inj Date: 6/2/2020 10:59:00AM			Dil: 1.0	Meth: 9034		
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		-1.6 mg/L	1.9 U mg/L				
	Sulfide as H2S		-1.7 mg/L	2.0 U mg/L				
RS# 16	Lab ID: 280-137084-E-5-A	Inj Date: 6/2/2020 10:59:00AM			Dil: 1.0	Meth: 9034		
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		0 mg/L	1.9 U mg/L				
	Sulfide as H2S		0 mg/L	2.0 U mg/L				

TALS Raw Data Report

Job Number: 280-94955-1
LIMS Batch: 497042
Equipment: NOEQUIP

Laboratory: Eurofins TestAmerica, Denver

RS# 1	Lab ID: LCS 280-497037/1-A	Inj Date: 6/2/2020 10:59:00AM	Dil: 1.0	Meth: 9034				
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		12 mg/L	mg/L	66	44	110	
	Sulfide as H2S		12.75 mg/L	mg/L				
RS# 2	Lab ID: MB 280-497037/2-A	Inj Date: 6/2/2020 10:59:00AM	Dil: 1.0	Meth: 9034				
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		0 mg/L	1.9 U mg/L				
	Sulfide as H2S		0 mg/L	2.0 U mg/L				
RS# 3	Lab ID: 580-94955-J-1-A	Inj Date: 6/2/2020 10:59:00AM	Dil: 1.0	Meth: 9034				
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		-10.4 mg/L	1.9 U mg/L				
	Sulfide as H2S		-11.05 mg/L	2.0 U mg/L				
RS# 4	Lab ID: 580-94955-J-1-B MS	Inj Date: 6/2/2020 10:59:00AM	Dil: 1.0	Meth: 9034				
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		11.2 mg/L	mg/L	61	44	110	
	Sulfide as H2S		11.9 mg/L	mg/L				
RS# 5	Lab ID: 580-94955-J-1-C MSD	Inj Date: 6/2/2020 10:59:00AM	Dil: 1.0	Meth: 9034				
	Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
	Sulfide		8 mg/L	mg/L	44	44	110	33 20
	Sulfide as H2S		8.5 mg/L	mg/L				

TALS Raw Data Report

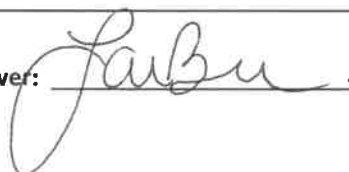
Titration Data Review Checklist

LIMS Batch Number: 497042	Method (circle one): 2310B 2320B 2340C 4500 S2 F 4500 SO3 B 9030B/9034	QC Type (circle): Standard DoD QAPP Other
Analyst/1st Reviewer: Alexa David Date: 06/02/2020		
Matrix (circle): Water Solid	Automated or Manual (circle one)	Instrument ID (circle one if applicable): AT2 AT3

Review Items	Yes	No	2 nd Rev	If No, why is data reportable?
A. Sample Storage and Pretreatment				
1. Is sample pH verified and documented prior to analysis? (if required)	✓		✓	
2. For samples requiring pH adjustment is the amount of acid/base used documented?	N/A		✓	If no, list details:
3. Are samples analyzed within the required hold time?	✓		✓	NCM:
4. Pre-treatment reagents used to remove interferences are documented.	N/A		✓	
B. Calibration / Instrument				
5. Was the normality of the titrant verified and found acceptable?	✓		✓	Comments:
6. For potentiometric titration, the pH meter is calibrated with 5 buffers bracketing range of samples and QC.	N/A		✓	Comments:
7. Calibration standards are analyzed at the beginning and end of the analytical sequence and after every 10 sample analyses. (samples/dilutions/reanalyses).	N/A		✓	Comments:
8. Calibrations standards (ICV/CCV) are within 90-110% recovery.	N/A		✓	
C. Sample and Batch QC				
9. Blanks are analyzed at the beginning, end and after every 10 sample analyses in the sequence.	✓		✓	
10. Results of blank analyses (MB, ICB, CCB) are < ½ RL (<RL for alkalinity unless DoD)	✓		✓	☐ No analyte > ½ RL in associated samples ☐ Sample results >10x blank
11. A standard from a second source (SRM, CRM, LCS) is included in the analytical sequence.	✓		✓	
12. The recovery of the 2 nd source material falls within 90-110% or manufacturer's limits.	✓		✓	
13. Samples analyses are bracketing by acceptable CCV/CCBs.	N/A		✓	☐ No analyte > RL in associated samples ☐ Sample results >10x blank ☐ Sample results qualified
14. MS/MSD analyzed at required frequency and recoveries within limits. (If recoveries out of limits, verify not due to lab error) (Required for 2340C, 4500 S2 F, 9030B/9034)	✓		✓	☐ Non-conformance (NCM) added ☐ Sample results >4X spike conc.
15. Duplicate analyzed at required frequency and RPD within limits. (Required for 2310B, 2320B, 4500 SO3 B)	N/A		✓	☐ Non-conformance (NCM) added ☐ Sample results ND or <2X RL

Review Items	Yes	No	2 nd Rev	If No, why is data reportable?
16. Are all MS/MSD RPDs <50%? Note: Excessive RPDs (>50%) require evaluation, correction or explanation.		✓	✓	✓ Non-conformance (NCM) added
D. Raw Data & TALS Data Entry				
17. Raw Data	✓			
a. Unused data is clearly identified with reason	✓		✓	
b. All crossed out data is initialed and dated	✓		✓	
c. Out of control QC is clearly identified	✓		✓	
d. Any data that has a qualifier is commented on with appropriate action taken	✓		✓	
e. The first page of the run includes the filename, instrument, and analyst initials/signature	✓		✓	
f. 100% of manual calculations are verified.	✓		✓	
18. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	✓		✓	
b. Method and matrix are correct	✓		✓	
c. Date and time match raw data	✓		✓	
d. Dilutions are correct	✓		✓	
e. Correct suffix designated (where applicable)	✓		✓	
19. TALS Worksheet Tab is complete and correct	✓		✓	
20. TALS Reagent Tab is complete and correct	✓		✓	
21. TALS QC Links Tab is correct	✓		✓	
22. TALS Sample Results Tab	✓			
a. All unused data are marked Rejected or Accepted	✓		✓	
b. All reported analytes are marked Primary or Secondary	✓		✓	
c. Data manually transcribed from benchsheet into TALS verified 100% including significant figures SM 4500 SO3 B).	✓		✓	
d. TALS Batch Information Screen documentation is complete	✓		✓	
e. TALS Status set to appropriate review level	✓		✓	
E. Final Report and NCMs (2nd level review only)				
f. Were all job/project requirements met?	✓		✓	
g. Results for samples and QC correct on final report?	✓		✓	
h. Are all necessary scanned documents in TALS?	✓		✓	
i. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?	✓		✓	

Comments: _____

2nd Reviewer:


Review Date:

6.3.2020

IC Instrument Information

WL: 91512 Inst ID: 10 Analysis Date: 5/14/2020 Analyst: JP

Rush	Job No.	Samples	Anions	QC Req	HT Exp
☐	<u>136055</u>	<u>5</u>	F Cl NO2 Br NO3 PO4 SO4	<u>MS/D</u> <u>2</u>	
☐	<u>136058</u>	<u>1</u>	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	<u>136248</u>	<u>3</u>	F Cl NO2 Br NO3 PO4 SO4	<u>MS/D</u> <u>1</u>	
☐	<u>136060</u>	<u>1</u>	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	<u>136065</u>	<u>2</u>	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	<u>136069</u>	<u>1</u>	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	<u>136241</u>	<u>3</u>	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	<u>136084</u>	<u>1</u>	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	<u>136066</u>	<u>11</u>	F Cl NO2 Br NO3 PO4 SO4	<u>MS/D</u> <u>5, 10</u>	
☐	<u>136262</u>	<u>11</u>	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
<u>058</u>		F Cl NO2 Br NO3 PO4 SO4	<u>10X</u>	<u>REGRUN</u>
<u>248</u>		F Cl NO2 Br NO3 PO4 SO4	<u>50, 20X</u>	<u>TEST/REGRUN</u>
<u>060</u>		F Cl NO2 Br NO3 PO4 SO4	<u>10X</u>	<u>REGRUN</u>
<u>065</u>		F Cl NO2 Br NO3 PO4 SO4	<u>5, 20X</u>	<u>HIST</u>
<u>069</u>		F Cl NO2 Br NO3 PO4 SO4	<u>20X</u>	<u>HIST</u>
<u>241</u>		F Cl NO2 Br NO3 PO4 SO4	<u>100, 200X</u>	<u>REGRUN</u>
<u>084</u>		F Cl NO2 Br NO3 PO4 SO4	<u>5X</u>	<u>HIST</u>
<u>066</u>		F Cl NO2 Br NO3 PO4 SO4	<u>5, 10, 20X</u>	<u>HIST</u>
<u>262</u>		F Cl NO2 Br NO3 PO4 SO4	<u>100X</u>	<u>TEST</u>

TestAmerica Laboratories
Initial Calibration Summary Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Anions_IC10.m
Instrument: WC_IonChrom10 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 15-May-2020 09:13:11
No.Compounds:7

Initial Calibration Batches

Ical Batch: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b
Inj Date : 14-May-2020 11:03:00, Sublist: chrom-Anions_IC10*sub2

Detector 1: Info 2_091554_1

Compound	Wet - Anions 28D				Wet - Anions			
	b	M1	M2	Err	b	M1	M2	Err
1 Fluoride	-154540	9213052	R1	.994*				
2 Chloride	-224285	4264049		0.999				
3 Nitrite as N					-123925	9083742		0.996
4 Bromide	-97454	1400367		0.996				
5 Nitrate as N					-122575	1003005		0.996
6 Orthophosphate as P					-386608	4497150	R1	.992*
7 Sulfate	-189810	3123969		0.999				

ICalib Error Legend

R1, Curve Fit Fail Error Limit Test

TestAmerica Laboratories
Initial Calibration Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Anions_IC10.m
Instrument: WC_IonChrom10 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 15-May-2020 09:13:11
No. Compounds: 7
Sublist: chrom-Anions_IC10*sub2
Limit Group: Wet - Anions

Detectors

Detector: 1, Info 2_091554_1
Data Type: ic Spec Type: none
Supports Extracted Chromatograms: False
Run Time: 0.000-17.350 No. Points: 7196

Calibration File Names

Level: 1	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-112100
	Inj Date: 14-May-2020 11:03:00 Worklist: 91512 Sample#: 2
Level: 2	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-113826
	Inj Date: 14-May-2020 11:21:00 Worklist: 91512 Sample#: 3
Level: 3	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-115553
	Inj Date: 14-May-2020 11:38:00 Worklist: 91512 Sample#: 4
Level: 4	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-121320
	Inj Date: 14-May-2020 11:55:00 Worklist: 91512 Sample#: 5
Level: 5	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-123047
	Inj Date: 14-May-2020 12:13:00 Worklist: 91512 Sample#: 6
Level: 6	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124815
	Inj Date: 14-May-2020 12:30:00 Worklist: 91512 Sample#: 7

Start Cal Date: 14-May-2020 11:03:00 End Cal Date: 14-May-2020 12:30:00

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
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3 Nitrite as N

Signal: 1

5290480	5709206	6488578	8168411	9328325	9014763	-1239255			0.996
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		9083742		
1058096	2854603	6488578	32673642	74626602	90147626				
91512(2)	91512(3)	91512(4)	91512(5)	91512(6)	91512(7)				

5 Nitrate as N

Signal: 1

6314255	6788070	7400264	9003471	10286628	9999371	-1225754			0.996
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		10030055		
1262851	3394035	7400264	36013883	82293020	99993713				
91512(2)	91512(3)	91512(4)	91512(5)	91512(6)	91512(7)				

6 Orthophosphate as P

Signal: 1

4171885	2532702	3258389	4902043	4559133	4282246	-386608	R1		*0.992
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		4497150		
M834377	M1266351	3258389	19608172	36473065	42822463				
91512(2)	91512(3)	91512(4)	91512(5)	91512(6)	91512(7)				

ICalib Error Legend

R1, Curve Fit Fail Error Limit Test

TestAmerica Laboratories
Initial Calibration Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Anions_IC10.m
Instrument: WC_IonChrom10 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 15-May-2020 09:13:11
No. Compounds: 7
Sublist: chrom-Anions_IC10*sub2
Limit Group: Wet - Anions 28D

Detectors

Detector: 1, Info 2_091554_1
Data Type: ic Spec Type: none
Supports Extracted Chromatograms: False
Run Time: 0.000-17.350 No. Points: 7196

Calibration File Names

Level: 1	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-112100
	Inj Date: 14-May-2020 11:03:00 Worklist: 91512 Sample#: 2
Level: 2	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-113826
	Inj Date: 14-May-2020 11:21:00 Worklist: 91512 Sample#: 3
Level: 3	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-115553
	Inj Date: 14-May-2020 11:38:00 Worklist: 91512 Sample#: 4
Level: 4	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-121320
	Inj Date: 14-May-2020 11:55:00 Worklist: 91512 Sample#: 5
Level: 5	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-123047
	Inj Date: 14-May-2020 12:13:00 Worklist: 91512 Sample#: 6
Level: 6	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124815
	Inj Date: 14-May-2020 12:30:00 Worklist: 91512 Sample#: 7

Start Cal Date: 14-May-2020 11:03:00 End Cal Date: 14-May-2020 12:30:00

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
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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
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1 Fluoride

Signal: 1

R1

4753895	4847334	5513443	8568767	9530750	8966794	-1545408			*0.994
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		9213052		
950779	2423667	5513443	34275068	76245996	89667935				
91512(2)	91512(3)	91512(4)	91512(5)	91512(6)	91512(7)				

2 Chloride

Signal: 1

2827919	3027652	3368783	4110347	4368541	4225195	-2242855			0.999
1.0000 (1)	2.5000 (2)	5.0000 (3)	60.0 (4)	120.0 (5)	200.0 (6)		4264049		
2827919	7569130	16843916	246620820	524224955	845039019				
91512(2)	91512(3)	91512(4)	91512(5)	91512(6)	91512(7)				

4 Bromide

Signal: 1

1184195	1138144	1157388	1240665	1440419	1415466	-97454			0.996
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		1400367		
236839	569072	1157388	4962659	11523351	14154656				
91512(2)	91512(3)	91512(4)	91512(5)	91512(6)	91512(7)				

7 Sulfate

Signal: 1

2066111	2057397	2247113	2971568	3200110	3107604	-1898105			0.999
1.0000 (1)	2.5000 (2)	5.0000 (3)	60.0 (4)	120.0 (5)	200.0 (6)		3123969		
2066111	5143493	11235564	178294050	384013246	621520847				
91512(2)	91512(3)	91512(4)	91512(5)	91512(6)	91512(7)				

ICalib Error Legend

R1, Curve Fit Fail Error Limit Test

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-112
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 14-May-2020 11:03:00 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091512-002
 Misc. Info.: 280-0091512-002
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Sublist: chrom-Anions_IC10*sub2
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 15-May-2020 09:17:33 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124

Column 1 : Det: Info 2_091554_1

Process Host: CTX0303

First Level Reviewer: pedrickj

Date: 14-May-2020 12:59:18

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.330	3.333	-0.003	950779	0.2000	0.2709	
2 Chloride	4.525	4.525	0.000	2827919	1.00	1.19	
3 Nitrite as N	5.228	5.222	0.006	1058096	NC	NC	
4 Bromide	6.305	6.293	0.012	236839	0.2000	0.2387	
5 Nitrate as N	7.097	7.057	0.040	1262851	NC	NC	
6 Orthophosphate as P	9.508	9.515	-0.007	834377	NC	NC	M
7 Sulfate	10.968	10.948	0.020	2066111	1.00	1.27	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC Cal low_00524 Amount Added: 0.04 Units: mL
 IC CAL c/so4_00310 Amount Added: 0.04 Units: mL

Report Date: 15-May-2020 09:17:33

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-112100.d

Injection Date: 14-May-2020 11:03:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: STD1

Worklist Smp#: 2

Client ID:

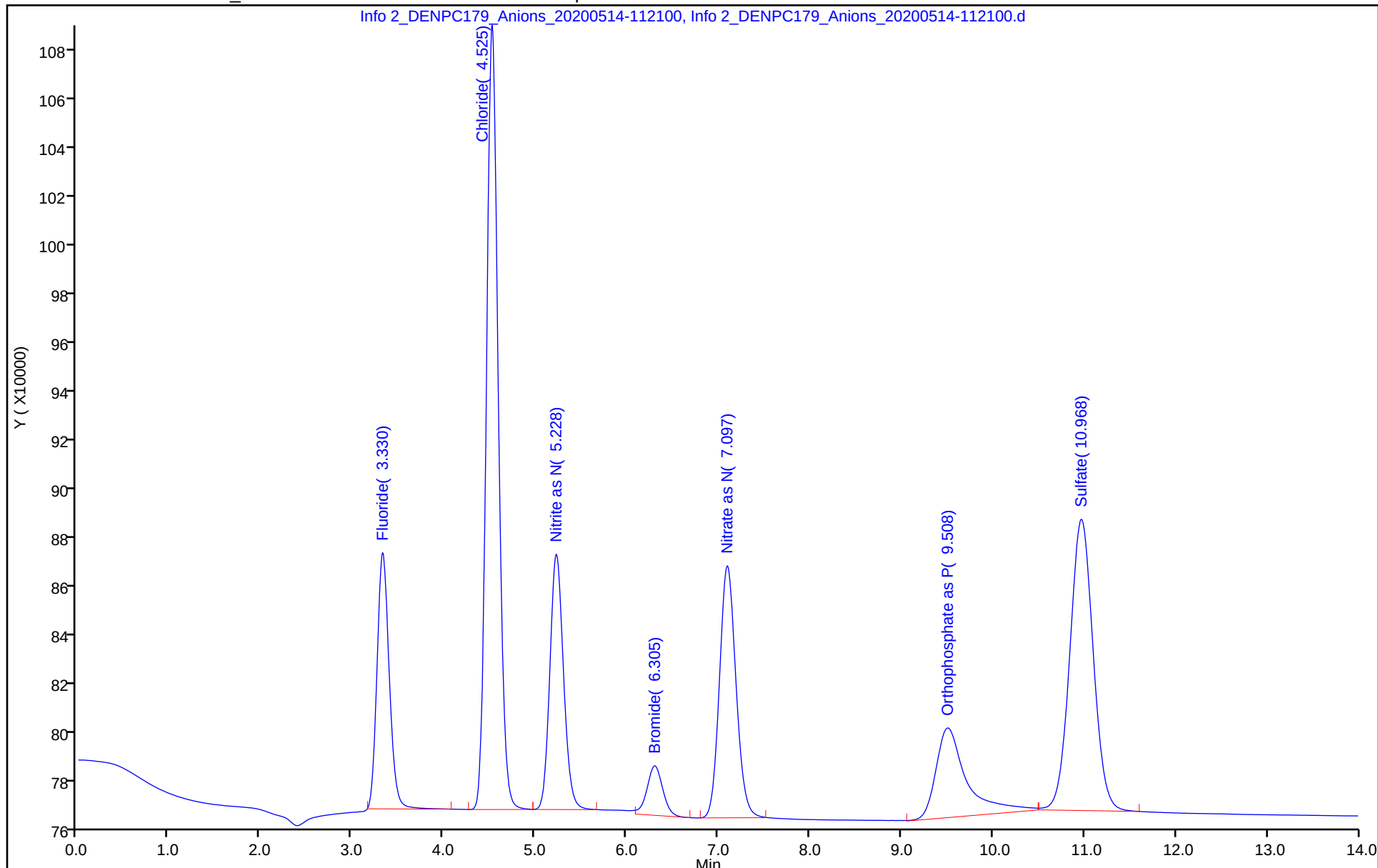
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-1138
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 14-May-2020 11:21:00 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091512-003
 Misc. Info.: 280-0091512-003
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Sublist: chrom-Anions_IC10*sub2
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 15-May-2020 09:17:34 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-1248

Column 1 : Det: Info 2_091554_1

Process Host: CTX0303

First Level Reviewer: pedrickj

Date: 14-May-2020 12:59:37

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.328	3.333	-0.005	2423667	0.5000	0.4308	
2 Chloride	4.523	4.525	-0.002	7569130	2.50	2.30	
3 Nitrite as N	5.225	5.222	0.003	2854603	NC	NC	
4 Bromide	6.302	6.293	0.009	569072	0.5000	0.4760	
5 Nitrate as N	7.087	7.057	0.030	3394035	NC	NC	
6 Orthophosphate as P	9.520	9.515	0.005	1266351	NC	NC	M
7 Sulfate	10.965	10.948	0.017	5143493	2.50	2.25	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC Cal low_00524 Amount Added: 0.10 Units: mL
 IC CAL cl/so4_00310 Amount Added: 0.10 Units: mL

Report Date: 15-May-2020 09:17:34

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-113826.d

Injection Date: 14-May-2020 11:21:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: STD2

Worklist Smp#: 3

Client ID:

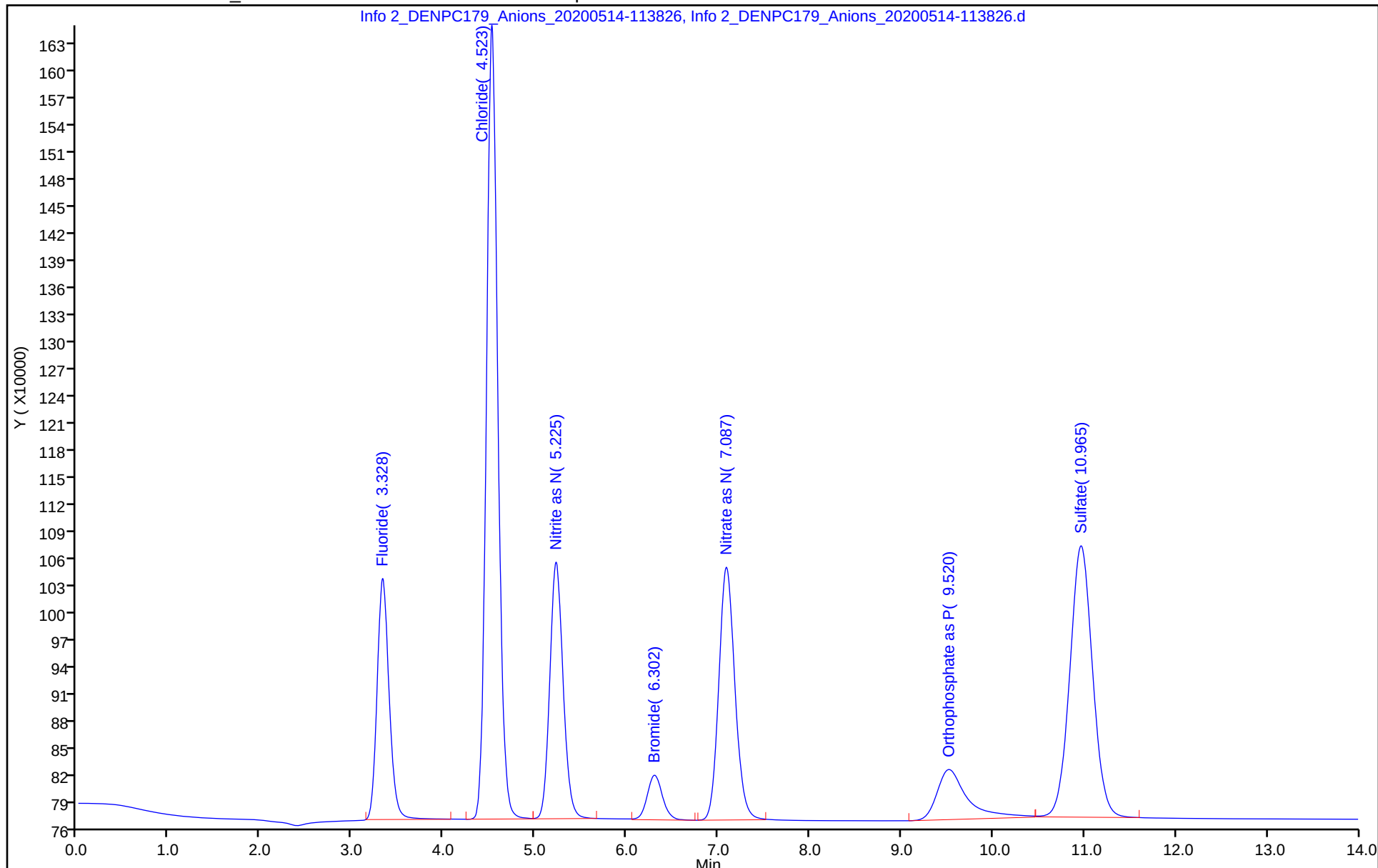
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-115
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 14-May-2020 11:38:00 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091512-004
 Misc. Info.: 280-0091512-004
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Sublist: chrom-Anions_IC10*sub2
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 15-May-2020 09:17:34 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124
 Column 1 : Det: Info 2_091554_1
 Process Host: CTX0303

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.333	3.333	0.000	5513443	1.00	0.7662	
2 Chloride	4.527	4.525	0.002	16843916	5.00	4.48	
3 Nitrite as N	5.228	5.222	0.006	6488578	NC	NC	
4 Bromide	6.305	6.293	0.012	1157388	1.00	0.8961	
5 Nitrate as N	7.087	7.057	0.030	7400264	NC	NC	
6 Orthophosphate as P	9.528	9.515	0.013	3258389	NC	NC	
7 Sulfate	10.973	10.948	0.025	11235564	5.00	4.20	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

IC Cal low_00524 Amount Added: 0.20 Units: mL
 IC CAL cl/so4_00310 Amount Added: 0.20 Units: mL

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-115553.d

Injection Date: 14-May-2020 11:38:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: STD3

Worklist Smp#: 4

Client ID:

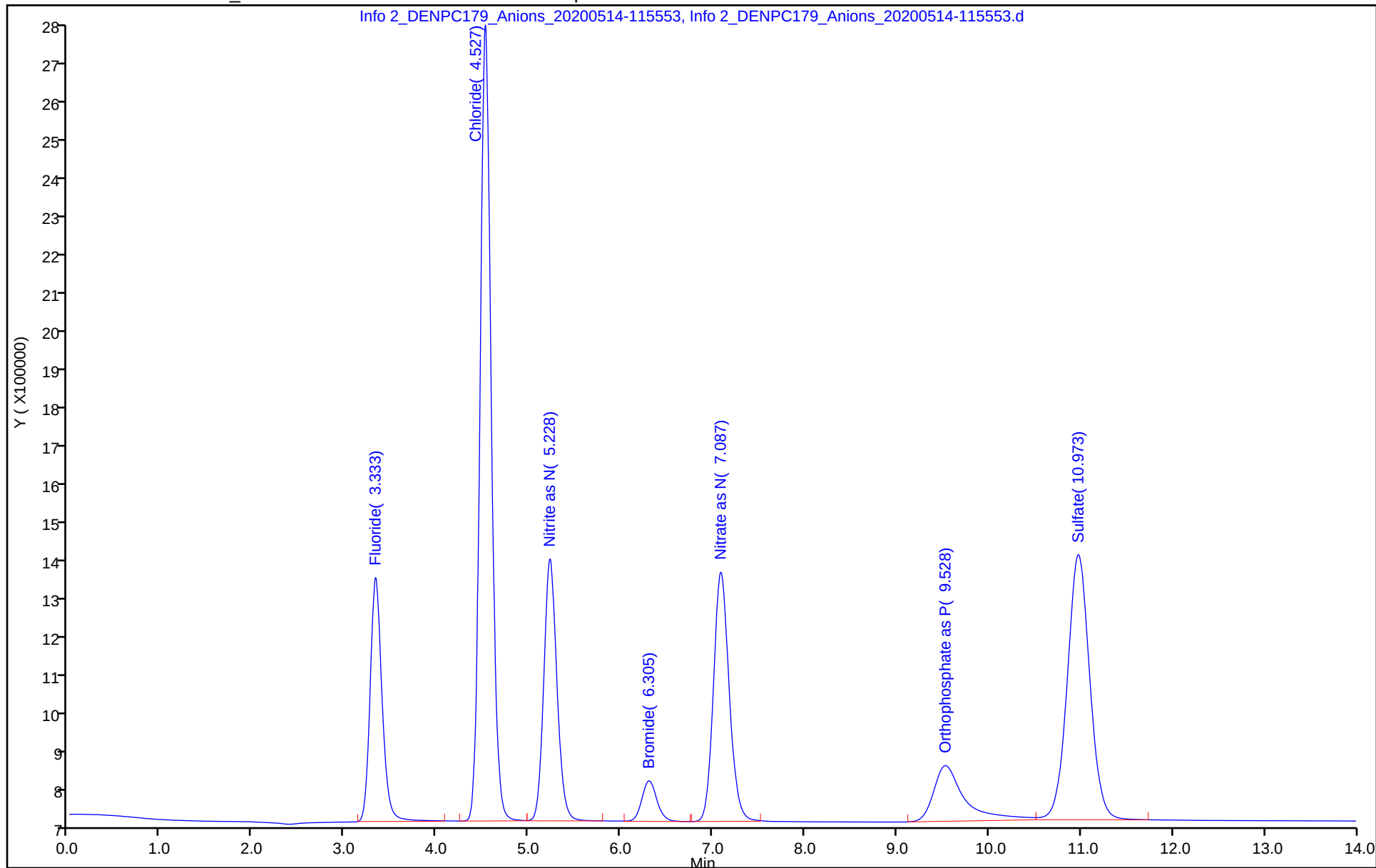
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-1213
 Lims ID: STD4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 14-May-2020 11:55:00 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091512-005
 Misc. Info.: 280-0091512-005
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Sublist: chrom-Anions_IC10*sub2
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 15-May-2020 09:17:35 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124

Column 1 : Det: Info 2_091554_1

Process Host: CTX0303

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.337	3.337	0.000	34275068	4.00	3.89	
2 Chloride	4.523	4.523	0.000	246620820	60.0	58.4	
3 Nitrite as N	5.222	5.222	0.000	32673642	NC	NC	
4 Bromide	6.297	6.297	0.000	4962659	4.00	3.61	
5 Nitrate as N	7.062	7.062	0.000	36013883	NC	NC	
6 Orthophosphate as P	9.507	9.507	0.000	19608172	NC	NC	
7 Sulfate	10.958	10.958	0.000	178294050	60.0	57.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

IC Cal low_00524 Amount Added: 0.80 Units: mL
 IC CAL cl/so4_00310 Amount Added: 2.40 Units: mL

Report Date: 15-May-2020 09:17:35

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-121320.d

Injection Date: 14-May-2020 11:55:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: STD4

Worklist Smp#: 5

Client ID:

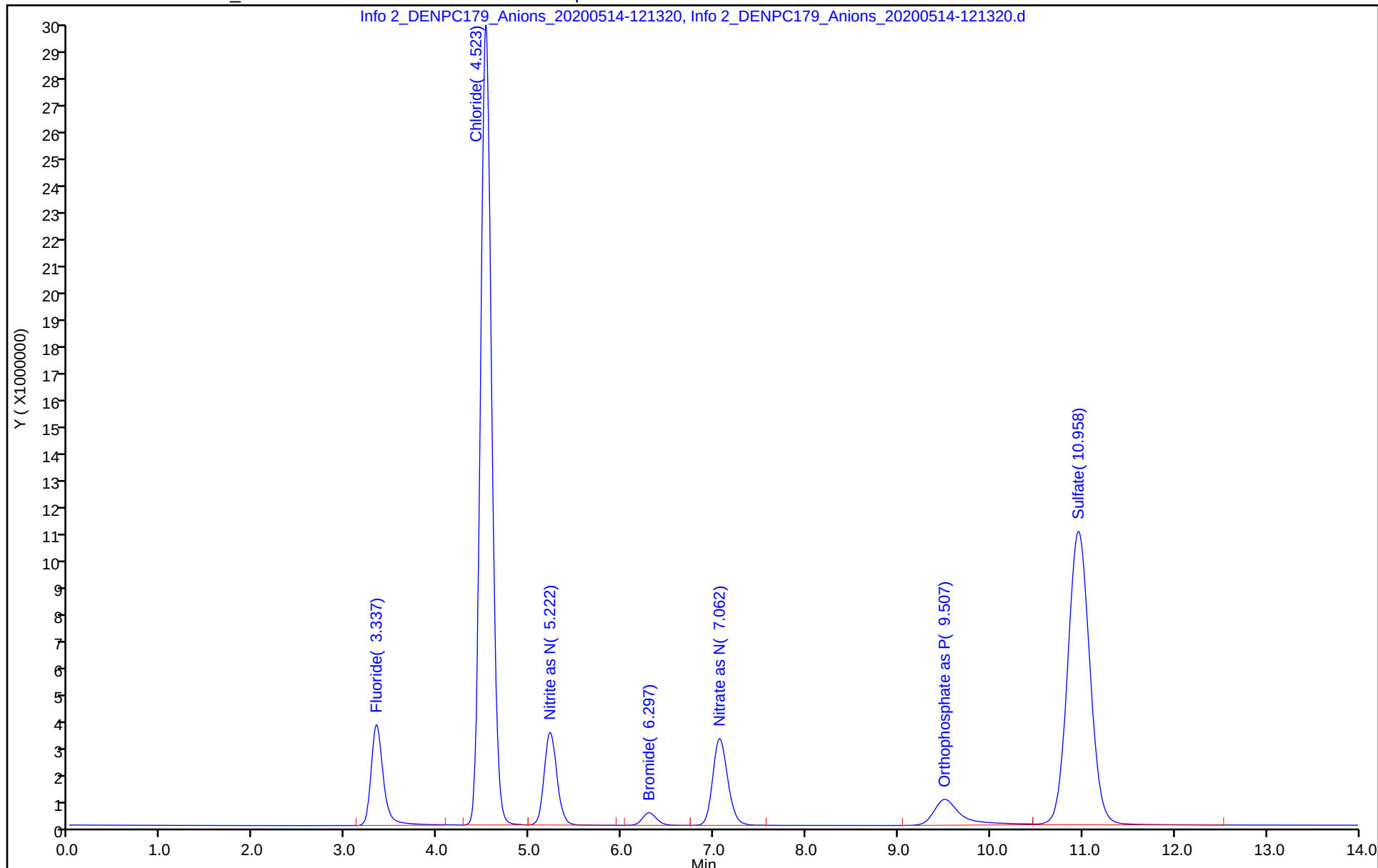
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-1230
 Lims ID: STD5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 14-May-2020 12:13:00 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091512-006
 Misc. Info.: 280-0091512-006
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Sublist: chrom-Anions_IC10*sub2
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 15-May-2020 09:17:35 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-1240
 Column 1 : Det: Info 2_091554_1
 Process Host: CTX0303

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.343	3.337	0.006	76245996	8.00	8.44	
2 Chloride	4.533	4.523	0.010	524224955	120.0	123.5	
3 Nitrite as N	5.222	5.222	0.000	74626602	NC	NC	
4 Bromide	6.297	6.297	0.000	11523351	8.00	8.30	
5 Nitrate as N	7.053	7.062	-0.009	82293020	NC	NC	
6 Orthophosphate as P	9.513	9.507	0.006	36473065	NC	NC	
7 Sulfate	10.957	10.958	-0.001	384013246	120.0	123.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

IC Cal low_00524 Amount Added: 1.60 Units: mL
 IC CAL cl/so4_00310 Amount Added: 4.80 Units: mL

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-123047.d

Injection Date: 14-May-2020 12:13:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: STD5

Worklist Smp#: 6

Client ID:

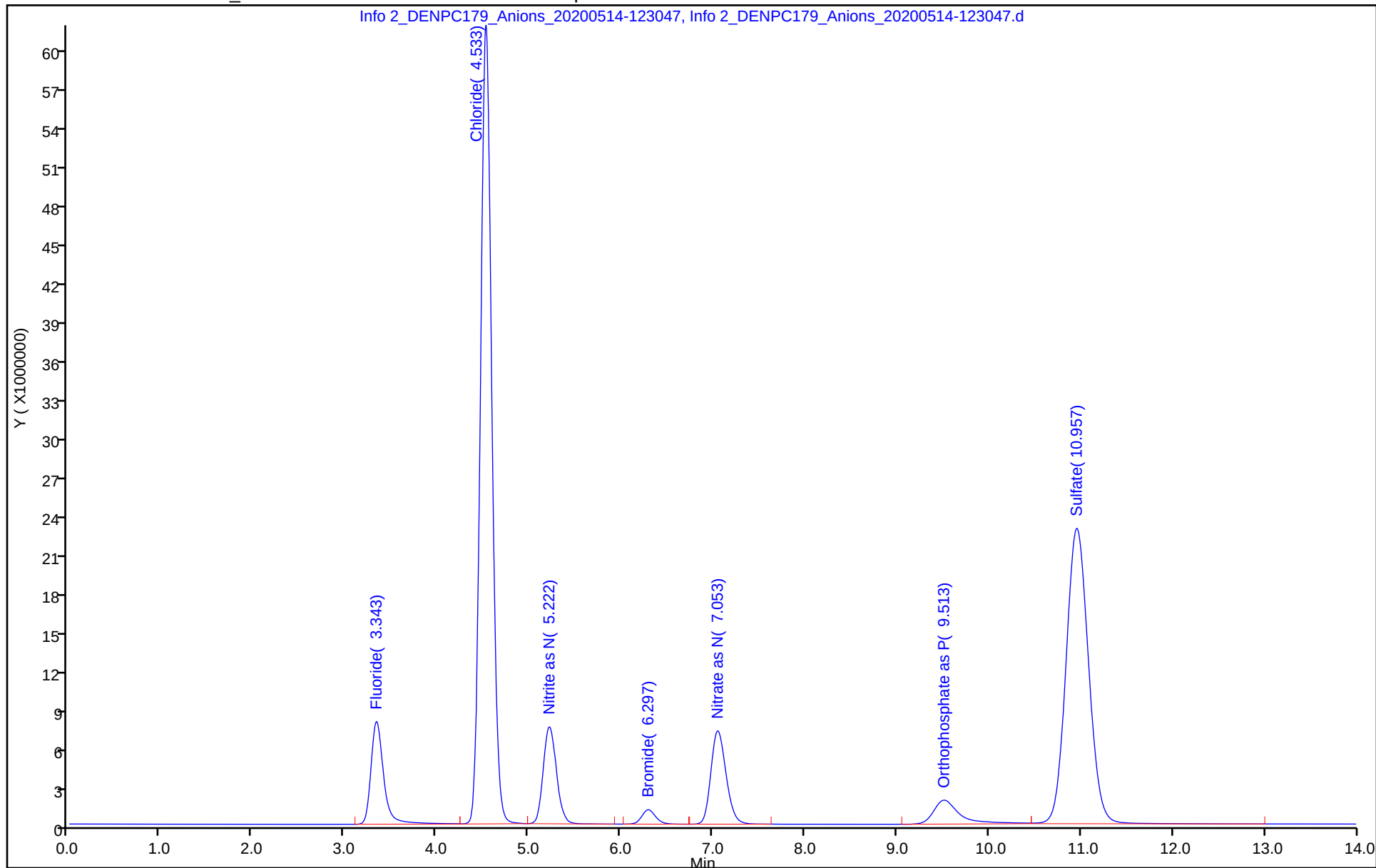
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124
 Lims ID: STD6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 14-May-2020 12:30:00 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091512-007
 Misc. Info.: 280-0091512-007
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Sublist: chrom-Anions_IC10*sub2
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 15-May-2020 09:17:36 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124
 Column 1 : Det: Info 2_091554_1
 Process Host: CTX0303

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.328	3.337	-0.009	89667935	10.0	9.90	
2 Chloride	4.522	4.523	-0.001	845039019	200.0	198.7	
3 Nitrite as N	5.202	5.222	-0.020	90147626	NC	NC	
4 Bromide	6.273	6.297	-0.024	14154656	10.0	10.2	
5 Nitrate as N	7.025	7.062	-0.037	99993713	NC	NC	
6 Orthophosphate as P	9.478	9.507	-0.029	42822463	NC	NC	
7 Sulfate	10.910	10.958	-0.048	621520847	200.0	199.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

IC Cal low_00524 Amount Added: 2.00 Units: mL
 IC CAL cl/so4_00310 Amount Added: 8.00 Units: mL

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124815.d

Injection Date: 14-May-2020 12:30:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: STD6

Worklist Smp#: 7

Client ID:

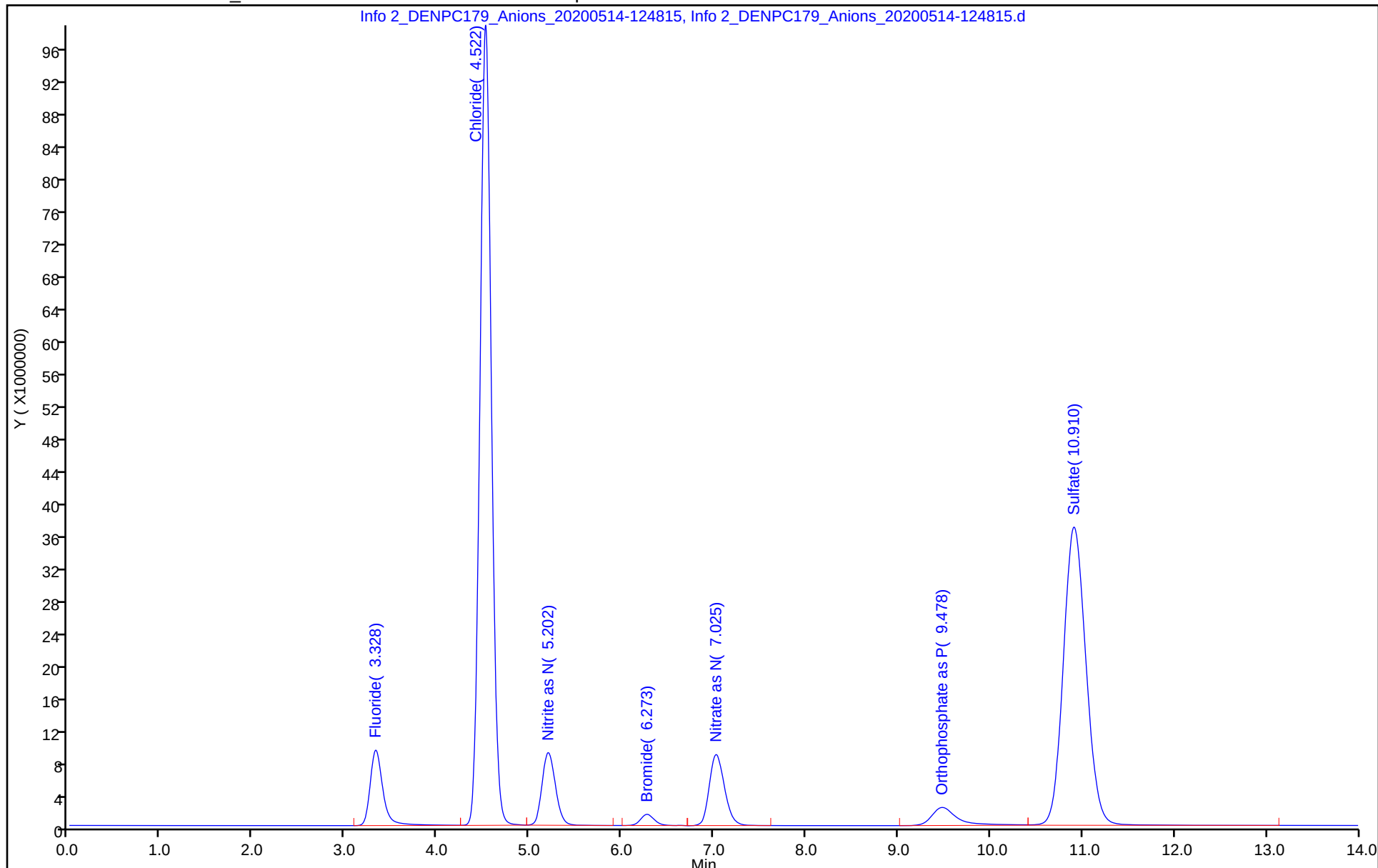
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



IC Instrument Information

WL: 91554 Inst ID: 10 Analysis Date: 5/15/2020 Analyst: JP

Rush	Job No.	Samples	Anions	QC Req	HT Exp
☐	<u>136271</u>	<u>1</u>	F [*] Cl NO2 Br NO3 PO4 [*] SO4	<u>MS/D</u> ⁸	
☐	<u>136291</u>	<u>1</u>	F Cl NO2 Br NO3 PO4 SO4	<u>MS/D</u> ²	
☐	<u>136125</u>	<u>8</u>	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	<u>136288</u>	<u>9</u>	F Cl NO2 Br NO3 PO4 SO4	<u>MS/D</u> ³	
☐	<u>136230</u>	<u>12</u>	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	<u>136226</u>	<u>1</u>	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	<u>136436</u>	<u>2</u>	F Cl NO2 Br NO3 PO4 SO4	<u>MS/D</u> ¹	
☐			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
<u>125</u>		F Cl NO2 Br NO3 PO4 SO4	<u>5, 10, 20, 100, 200, 500X</u>	<u>HIST</u>
<u>230</u>		F Cl NO2 Br NO3 PO4 SO4	<u>5, 10, 20, 100, 200, 500X</u>	<u>HIST</u>
<u>226</u>		F Cl NO2 Br NO3 PO4 SO4	<u>10, 100X</u>	<u>TEST</u>
<u>436</u>		F Cl NO2 Br NO3 PO4 SO4	<u>5X</u>	<u>HIST</u>
		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		

TestAmerica Laboratories
Initial Calibration Summary Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Anions_IC10.m
Instrument: WC_IonChrom10 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 15-May-2020 09:13:11
No.Compounds:7

Initial Calibration Batches

Ical Batch: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b
Inj Date : 14-May-2020 11:03:00, Sublist: chrom-Anions_IC10*sub2

Detector 1: Info 2_091554_1

Compound	Wet - Anions 28D				Wet - Anions			
	b	M1	M2	Err	b	M1	M2	Err
1 Fluoride	-154540	9213052	R1	.994*				
2 Chloride	-224285	4264049		0.999				
3 Nitrite as N					-123925	9083742		0.996
4 Bromide	-97454	1400367		0.996				
5 Nitrate as N					-122575	1003005		0.996
6 Orthophosphate as P					-386608	4497150	R1	.992*
7 Sulfate	-189810	3123969		0.999				

ICalib Error Legend

R1, Curve Fit Fail Error Limit Test

TestAmerica Laboratories
Initial Calibration Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Anions_IC10.m
Instrument: WC_IonChrom10 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 15-May-2020 09:13:11
No. Compounds: 7
Sublist: chrom-Anions_IC10*sub2
Limit Group: Wet - Anions

Detectors

Detector: 1, Info 2_091554_1
Data Type: ic Spec Type: none
Supports Extracted Chromatograms: False
Run Time: 0.000-17.350 No. Points: 7196

Calibration File Names

Level: 1	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-112100
	Inj Date: 14-May-2020 11:03:00 Worklist: 91512 Sample#: 2
Level: 2	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-113826
	Inj Date: 14-May-2020 11:21:00 Worklist: 91512 Sample#: 3
Level: 3	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-115553
	Inj Date: 14-May-2020 11:38:00 Worklist: 91512 Sample#: 4
Level: 4	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-121320
	Inj Date: 14-May-2020 11:55:00 Worklist: 91512 Sample#: 5
Level: 5	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-123047
	Inj Date: 14-May-2020 12:13:00 Worklist: 91512 Sample#: 6
Level: 6	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124815
	Inj Date: 14-May-2020 12:30:00 Worklist: 91512 Sample#: 7

Start Cal Date: 14-May-2020 11:03:00 End Cal Date: 14-May-2020 12:30:00

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
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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
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3 Nitrite as N

Signal: 1

5290480	5709206	6488578	8168411	9328325	9014763	-1239255			0.996
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		9083742		
1058096	2854603	6488578	32673642	74626602	90147626				
91512(2)	91512(3)	91512(4)	91512(5)	91512(6)	91512(7)				

5 Nitrate as N

Signal: 1

6314255	6788070	7400264	9003471	10286628	9999371	-1225754			0.996
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		10030055		
1262851	3394035	7400264	36013883	82293020	99993713				
91512(2)	91512(3)	91512(4)	91512(5)	91512(6)	91512(7)				

6 Orthophosphate as P

Signal: 1

4171885	2532702	3258389	4902043	4559133	4282246	-386608	R1		*0.992
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		4497150		
M834377	M1266351	3258389	19608172	36473065	42822463				
91512(2)	91512(3)	91512(4)	91512(5)	91512(6)	91512(7)				

ICalib Error Legend

R1, Curve Fit Fail Error Limit Test

TestAmerica Laboratories
Initial Calibration Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Anions_IC10.m
Instrument: WC_IonChrom10 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 15-May-2020 09:13:11
No. Compounds: 7
Sublist: chrom-Anions_IC10*sub2
Limit Group: Wet - Anions 28D

Detectors

Detector: 1, Info 2_091554_1
Data Type: ic Spec Type: none
Supports Extracted Chromatograms: False
Run Time: 0.000-17.350 No. Points: 7196

Calibration File Names

Level: 1	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-112100
	Inj Date: 14-May-2020 11:03:00 Worklist: 91512 Sample#: 2
Level: 2	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-113826
	Inj Date: 14-May-2020 11:21:00 Worklist: 91512 Sample#: 3
Level: 3	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-115553
	Inj Date: 14-May-2020 11:38:00 Worklist: 91512 Sample#: 4
Level: 4	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-121320
	Inj Date: 14-May-2020 11:55:00 Worklist: 91512 Sample#: 5
Level: 5	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-123047
	Inj Date: 14-May-2020 12:13:00 Worklist: 91512 Sample#: 6
Level: 6	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124815
	Inj Date: 14-May-2020 12:30:00 Worklist: 91512 Sample#: 7

Start Cal Date: 14-May-2020 11:03:00 End Cal Date: 14-May-2020 12:30:00

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
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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
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1 Fluoride

Signal: 1

R1

4753895	4847334	5513443	8568767	9530750	8966794	-1545408			*0.994
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		9213052		
950779	2423667	5513443	34275068	76245996	89667935				
91512(2)	91512(3)	91512(4)	91512(5)	91512(6)	91512(7)				

2 Chloride

Signal: 1

2827919	3027652	3368783	4110347	4368541	4225195	-2242855			0.999
1.0000 (1)	2.5000 (2)	5.0000 (3)	60.0 (4)	120.0 (5)	200.0 (6)		4264049		
2827919	7569130	16843916	246620820	524224955	845039019				
91512(2)	91512(3)	91512(4)	91512(5)	91512(6)	91512(7)				

4 Bromide

Signal: 1

1184195	1138144	1157388	1240665	1440419	1415466	-97454			0.996
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		1400367		
236839	569072	1157388	4962659	11523351	14154656				
91512(2)	91512(3)	91512(4)	91512(5)	91512(6)	91512(7)				

7 Sulfate

Signal: 1

2066111	2057397	2247113	2971568	3200110	3107604	-1898105			0.999
1.0000 (1)	2.5000 (2)	5.0000 (3)	60.0 (4)	120.0 (5)	200.0 (6)		3123969		
2066111	5143493	11235564	178294050	384013246	621520847				
91512(2)	91512(3)	91512(4)	91512(5)	91512(6)	91512(7)				

ICalib Error Legend

R1, Curve Fit Fail Error Limit Test

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200515-91554.b\Info 2_DENPC179_Anions_20200515-134
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 15-May-2020 13:24:00 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091554-001
 Misc. Info.: 280-0091554-001
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Sublist:

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200515-91554.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 18-May-2020 08:34:34 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124

Column 1 : Det: Info 2_091554_1

Process Host: CTX0312

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.327	3.327	0.000	35931902	4.00	4.07	
2 Chloride	4.513	4.513	0.000	361334468	80.0	85.3	
3 Nitrite as N	5.210	5.210	0.000	36170469	NC	NC	
4 Bromide	6.280	6.280	0.000	5662002	4.00	4.11	
5 Nitrate as N	7.045	7.045	0.000	40670609	NC	NC	
6 Orthophosphate as P	9.477	9.477	0.000	17517867	NC	NC	
7 Sulfate	10.920	10.920	0.000	260477579	80.0	84.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

IC SO4 ICV_00021	Amount Added: 0.80	Units: mL
IC ICV 5_00270	Amount Added: 0.80	Units: mL
IC CL ICV_00018	Amount Added: 0.80	Units: mL

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200515-91554.b\Info 2_DENPC179_Anions_20200515-134214.d

Injection Date: 15-May-2020 13:24:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: ICV

Worklist Smp#: 1

Client ID:

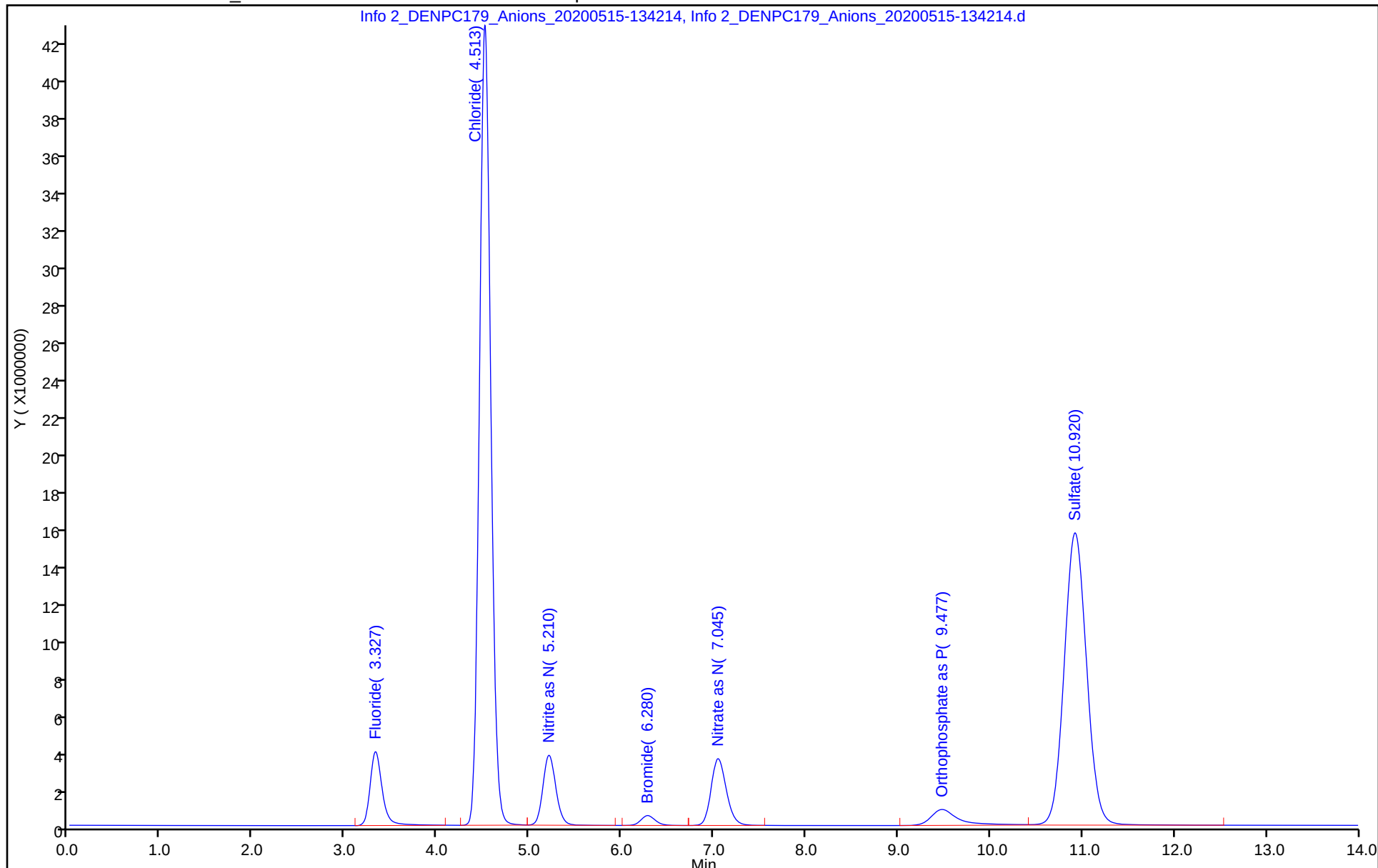
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200515-91554.b\Info 2_DENPC179_Anions_20200515-135
Lims ID: ICB
Client ID:
Sample Type: ICB
Inject. Date: 15-May-2020 13:42:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 280-0091554-002
Misc. Info.: 280-0091554-002
Operator ID: wetchemd Instrument ID: WC_IonChrom10
Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200515-91554.b\Anions_IC10.m
Limit Group: Wet - Anions 28D
Last Update: 18-May-2020 08:34:34 Calib Date: 14-May-2020 12:30:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124
Column 1 : Det: Info 2_091554_1
Process Host: CTX0312

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.327				ND	
2 Chloride	4.513	4.513	0.000	27841		0.5325	
3 Nitrite as N		5.210				ND	
4 Bromide		6.280				ND	
5 Nitrate as N		7.045				ND	
6 Orthophosphate as P		9.477				ND	
7 Sulfate		10.920				ND	

Report Date: 18-May-2020 08:34:36

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200515-91554.b\Info 2_DENPC179_Anions_20200515-135939.d

Injection Date: 15-May-2020 13:42:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: ICB

Worklist Smp#: 2

Client ID:

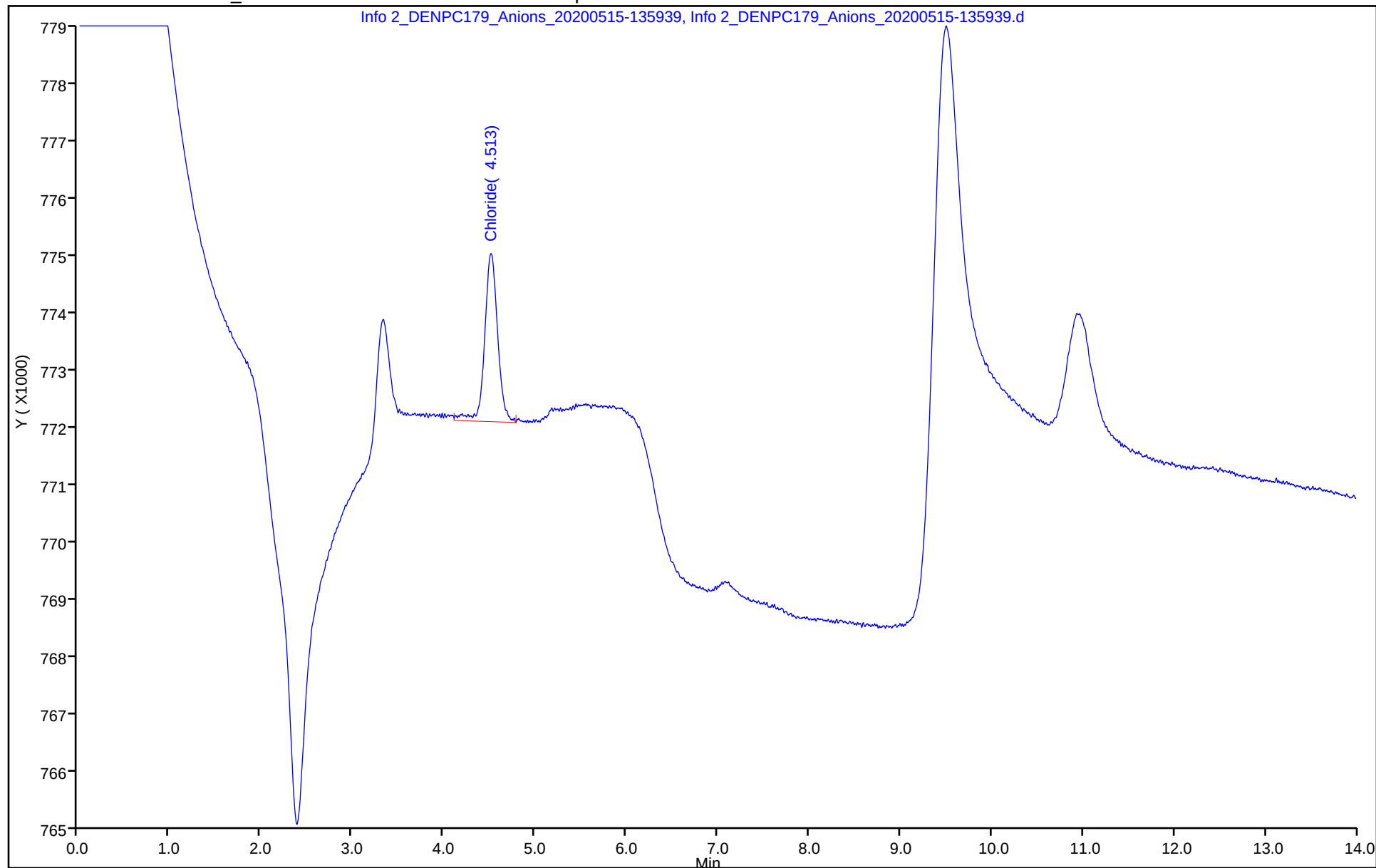
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



IC Instrument Information

WL: 91945 Inst ID: 10 Analysis Date: 5/29/2010 Analyst: JP

Rush	Job No.	Samples	Anions	QC Req	HT Exp
☐	<u>136983</u>	<u>6</u>	F ☒ Cl NO2 Br NO3 PO4 SO4	<u>MS/D</u>	
☐	<u>137019</u>	<u>1</u>	F Cl NO2 Br NO3 PO4 SO4	<u>MS/D</u>	
☐	<u>136736</u>	<u>3</u>	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	<u>136759</u>	<u>1</u>	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	<u>137007</u>	<u>1</u>	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	<u>136985</u>	<u>6</u>	F Cl NO2 Br NO3 PO4 SO4	<u>MS/D</u>	
☐	<u>136960</u>	<u>1</u>	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	<u>136890</u>	<u>1</u>	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	<u>136899</u>	<u>6</u>	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	<u>136684</u>	<u>1</u>	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	<u>136744</u>	<u>1</u>	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	<u>136982</u>	<u>1</u>	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	<u>137030</u>	<u>6</u>	F Cl NO2 Br NO3 PO4 <u>SO4</u>	MS/D	
☐	<u>137058</u>	<u>8</u>	F <u>Cl</u> NO2 Br NO3 PO4 <u>SO4</u>	<u>MS/D</u>	
	<u>137048</u>	<u>2</u>			
	<u>137035</u>	<u>3</u>			

Dilutions

Job No.	Samples	Anions	Dilution	Reason
<u>983</u>		F Cl NO2 Br NO3 PO4 SO4	<u>100,200X</u>	<u>TEST</u>
<u>736</u>		F Cl NO2 Br NO3 PO4 SO4	<u>10,50X</u>	<u>RE RUN</u>
<u>759</u>		F Cl NO2 Br NO3 PO4 SO4	<u>10X</u>	<u>RE RUN</u>
<u>007</u>		F Cl NO2 Br NO3 PO4 SO4	<u>10X</u>	<u>HIST</u>
<u>985</u>		F Cl NO2 Br NO3 PO4 SO4	<u>10X</u>	<u>HIST</u>
<u>960</u>		F Cl NO2 Br NO3 PO4 SO4	<u>10X</u>	<u>RE RUN</u>
<u>890</u>		F Cl NO2 Br NO3 PO4 SO4	<u>5X</u>	<u>RE RUN</u>
<u>899</u>		F Cl NO2 Br NO3 PO4 SO4	<u>5,200X</u>	<u>RE RUN</u>
<u>684</u>		F Cl NO2 Br NO3 PO4 SO4	<u>50X</u>	<u>RE RUN</u>
<u>744</u>			<u>5X</u>	<u>RE RUN</u>
<u>982</u>			<u>10X</u>	<u>RE RUN</u>
<u>030</u>			<u>5,20X</u>	<u>TEST</u>
			<u>5X</u>	<u>HIST</u>
			<u>10,100,200</u>	

TestAmerica Laboratories
Initial Calibration Summary Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Anions_IC10.m
Instrument: WC_IonChrom10 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 15-May-2020 09:13:11
No.Compounds:7

Initial Calibration Batches

Ical Batch: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b
Inj Date : 14-May-2020 11:03:00, Sublist: chrom-Anions_IC10*sub2

Detector 1: Info 2_091554_1

Compound	Wet - Anions 28D				Wet - Anions			
	b	M1	M2	Err	b	M1	M2	Err
1 Fluoride	-154540	9213052	R1	.994*				
2 Chloride	-224285	4264049		0.999				
3 Nitrite as N					-123925	9083742		0.996
4 Bromide	-97454	1400367		0.996				
5 Nitrate as N					-122575	1003005		0.996
6 Orthophosphate as P					-386608	4497150	R1	.992*
7 Sulfate	-189810	3123969		0.999				

ICalib Error Legend

R1, Curve Fit Fail Error Limit Test

TestAmerica Laboratories
Initial Calibration Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Anions_IC10.m
Instrument: WC_IonChrom10 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 15-May-2020 09:13:11
No. Compounds: 7
Sublist: chrom-Anions_IC10*sub2
Limit Group: Wet - Anions

Detectors

Detector: 1, Info 2_091554_1
Data Type: ic Spec Type: none
Supports Extracted Chromatograms: False
Run Time: 0.000-17.350 No. Points: 7196

Calibration File Names

Level: 1	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-112100
	Inj Date: 14-May-2020 11:03:00 Worklist: 91512 Sample#: 2
Level: 2	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-113826
	Inj Date: 14-May-2020 11:21:00 Worklist: 91512 Sample#: 3
Level: 3	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-115553
	Inj Date: 14-May-2020 11:38:00 Worklist: 91512 Sample#: 4
Level: 4	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-121320
	Inj Date: 14-May-2020 11:55:00 Worklist: 91512 Sample#: 5
Level: 5	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-123047
	Inj Date: 14-May-2020 12:13:00 Worklist: 91512 Sample#: 6
Level: 6	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124815
	Inj Date: 14-May-2020 12:30:00 Worklist: 91512 Sample#: 7

Start Cal Date: 14-May-2020 11:03:00 End Cal Date: 14-May-2020 12:30:00

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
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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
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3 Nitrite as N

Signal: 1

5290480	5709206	6488578	8168411	9328325	9014763	-1239255			0.996
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		9083742		
1058096	2854603	6488578	32673642	74626602	90147626				
91512(2)	91512(3)	91512(4)	91512(5)	91512(6)	91512(7)				

5 Nitrate as N

Signal: 1

6314255	6788070	7400264	9003471	10286628	9999371	-1225754			0.996
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		10030055		
1262851	3394035	7400264	36013883	82293020	99993713				
91512(2)	91512(3)	91512(4)	91512(5)	91512(6)	91512(7)				

6 Orthophosphate as P

Signal: 1

4171885	2532702	3258389	4902043	4559133	4282246	-386608	R1		*0.992
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		4497150		
M834377	M1266351	3258389	19608172	36473065	42822463				
91512(2)	91512(3)	91512(4)	91512(5)	91512(6)	91512(7)				

ICalib Error Legend

R1, Curve Fit Fail Error Limit Test

TestAmerica Laboratories
Initial Calibration Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Anions_IC10.m
 Instrument: WC_IonChrom10 Lims Location: 280
 Lock State: Unlocked Cpnd Order: Retention Time
 Integrator: Falcon Last Modified: 15-May-2020 09:13:11
 No. Compounds: 7
 Sublist: chrom-Anions_IC10*sub2
 Limit Group: Wet - Anions 28D

Detectors

Detector: 1, Info 2_091554_1
 Data Type: ic Spec Type: none
 Supports Extracted Chromatograms: False
 Run Time: 0.000-17.350 No. Points: 7196

Calibration File Names

Level: 1	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-112100
	Inj Date: 14-May-2020 11:03:00 Worklist: 91512 Sample#: 2
Level: 2	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-113826
	Inj Date: 14-May-2020 11:21:00 Worklist: 91512 Sample#: 3
Level: 3	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-115553
	Inj Date: 14-May-2020 11:38:00 Worklist: 91512 Sample#: 4
Level: 4	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-121320
	Inj Date: 14-May-2020 11:55:00 Worklist: 91512 Sample#: 5
Level: 5	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-123047
	Inj Date: 14-May-2020 12:13:00 Worklist: 91512 Sample#: 6
Level: 6	\\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124815
	Inj Date: 14-May-2020 12:30:00 Worklist: 91512 Sample#: 7

Start Cal Date: 14-May-2020 11:03:00 End Cal Date: 14-May-2020 12:30:00

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
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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
------------------------------------	------------------------------------	------------------------------------	------------------------------------	------------------------------------	------------------------------------	---	----	----	-------

1 Fluoride

Signal: 1

R1

4753895	4847334	5513443	8568767	9530750	8966794	-1545408			*0.994
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		9213052		
950779	2423667	5513443	34275068	76245996	89667935				
91512(2)	91512(3)	91512(4)	91512(5)	91512(6)	91512(7)				

2 Chloride

Signal: 1

2827919	3027652	3368783	4110347	4368541	4225195	-2242855			0.999
1.0000 (1)	2.5000 (2)	5.0000 (3)	60.0 (4)	120.0 (5)	200.0 (6)		4264049		
2827919	7569130	16843916	246620820	524224955	845039019				
91512(2)	91512(3)	91512(4)	91512(5)	91512(6)	91512(7)				

4 Bromide

Signal: 1

1184195	1138144	1157388	1240665	1440419	1415466	-97454			0.996
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		1400367		
236839	569072	1157388	4962659	11523351	14154656				
91512(2)	91512(3)	91512(4)	91512(5)	91512(6)	91512(7)				

7 Sulfate

Signal: 1

2066111	2057397	2247113	2971568	3200110	3107604	-1898105			0.999
1.0000 (1)	2.5000 (2)	5.0000 (3)	60.0 (4)	120.0 (5)	200.0 (6)		3123969		
2066111	5143493	11235564	178294050	384013246	621520847				
91512(2)	91512(3)	91512(4)	91512(5)	91512(6)	91512(7)				

ICalib Error Legend

R1, Curve Fit Fail Error Limit Test

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200529-140
 Lims ID: MRL
 Client ID:
 Sample Type: MRL
 Inject. Date: 29-May-2020 13:52:00 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091945-003
 Misc. Info.: 280-0091945-003
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 01-Jun-2020 08:34:01 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124
 Column 1 : Det: Info 2_091554_1
 Process Host: CTX1004

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.327	3.327	0.000	2082510	0.5000	0.3938	
2 Chloride	4.507	4.513	-0.006	17194003	5.00	4.56	
3 Nitrite as N	5.203	5.210	-0.007	2418140	NC	NC	
4 Bromide	6.267	6.280	-0.013	584790	0.5000	0.4872	
5 Nitrate as N	7.042	7.045	-0.003	3312204	NC	NC	
6 Orthophosphate as P	9.492	9.477	0.015	1401382	NC	NC	
7 Sulfate	10.852	10.920	-0.068	11327376	5.00	4.23	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

IC Cal low_00527 Amount Added: 0.10 Units: mL
 IC CAL cl/so4_00312 Amount Added: 0.20 Units: mL

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200529-140940.d

Injection Date: 29-May-2020 13:52:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: MRL

Worklist Smp#: 3

Client ID:

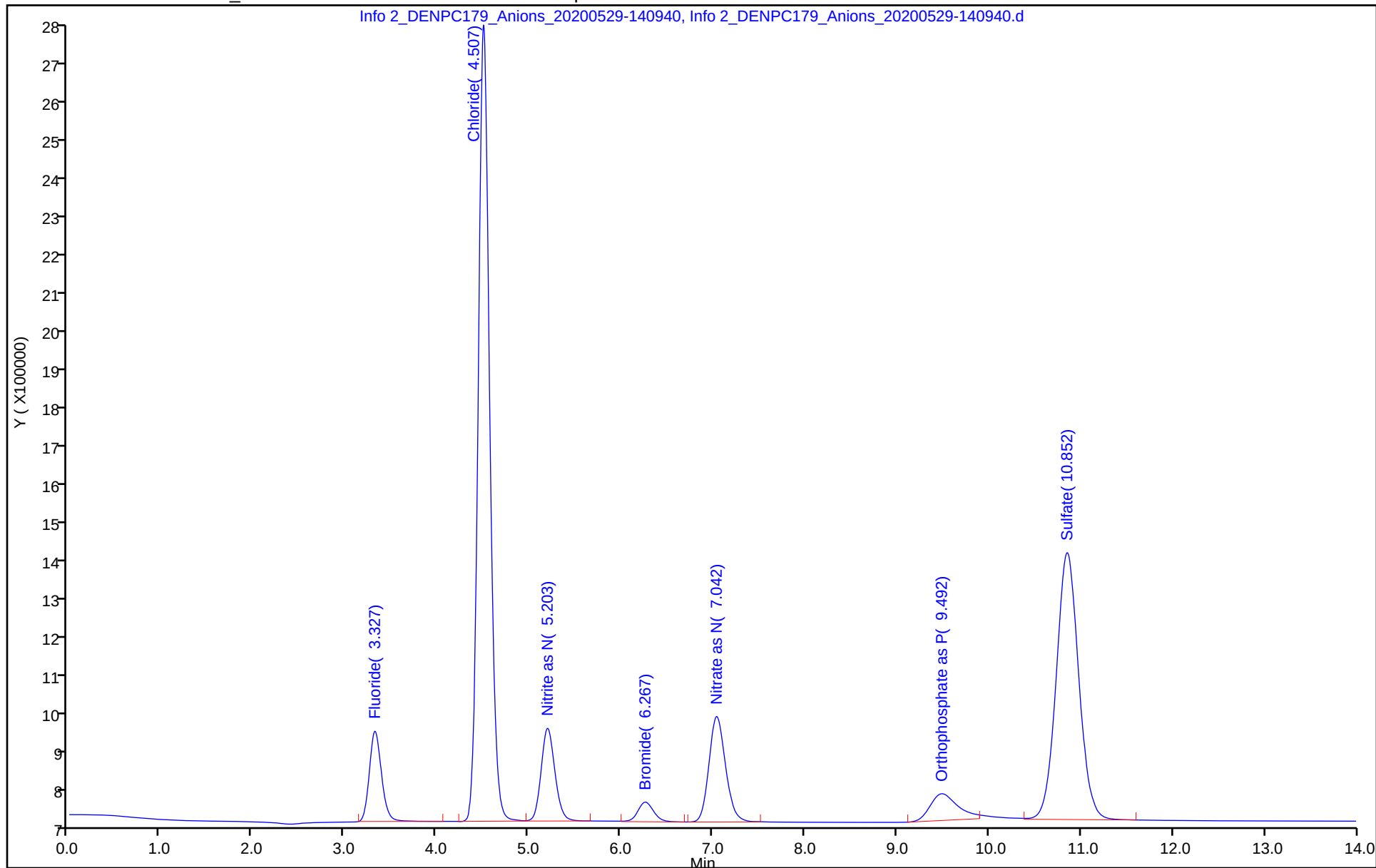
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-0114
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 30-May-2020 00:57:00 ALS Bottle#: 0 Worklist Smp#: 41
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091945-041
 Misc. Info.: 280-0091945-041
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Sublist: chrom-Anions_IC10*sub2
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 01-Jun-2020 08:34:17 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124
 Column 1 : Det: Info 2_091554_1
 Process Host: CTX1004

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.310	3.327	-0.017	38696758	5.00	4.37	
2 Chloride	4.485	4.513	-0.028	418743273	100.0	98.7	
3 Nitrite as N	5.167	5.210	-0.043	39910997	NC	NC	
4 Bromide	6.218	6.280	-0.062	6338675	5.00	4.60	
5 Nitrate as N	6.967	7.045	-0.078	45926823	NC	NC	
6 Orthophosphate as P	9.425	9.477	-0.052	31921273	NC	NC	
7 Sulfate	10.765	10.920	-0.155	310704244	100.0	100.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

IC LCS_01743

Amount Added: 10.00

Units: mL

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-011435.d

Injection Date: 30-May-2020 00:57:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: ccv

Worklist Smp#: 41

Client ID:

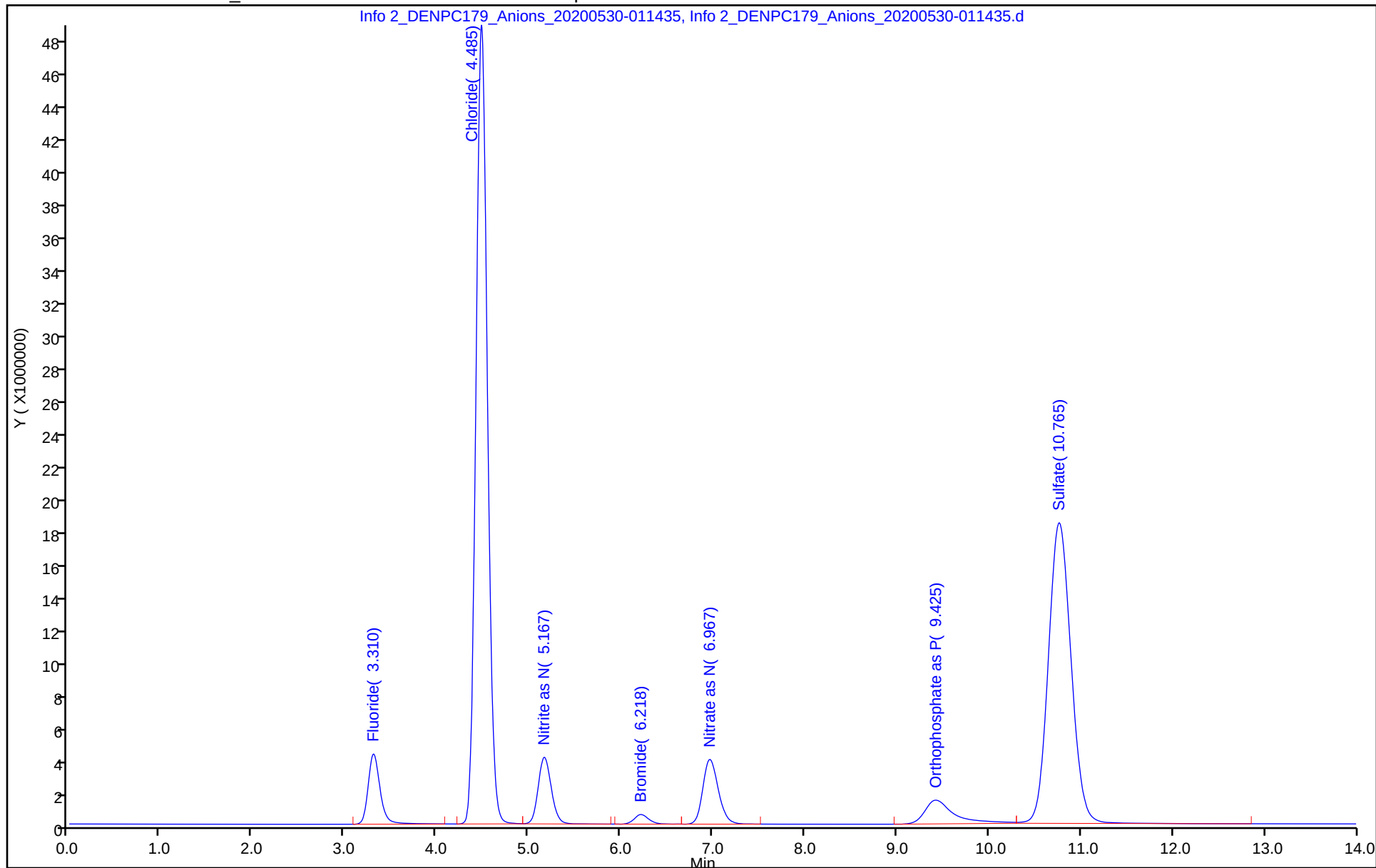
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-0132
 Lims ID: ccb
 Client ID:
 Sample Type: CCB
 Inject. Date: 30-May-2020 01:14:00 ALS Bottle#: 0 Worklist Smp#: 42
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091945-042
 Misc. Info.: 280-0091945-042
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 01-Jun-2020 08:34:17 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-1242
 Column 1 : Det: Info 2_091554_1
 Process Host: CTX1004

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.327				ND	
2 Chloride	4.500	4.513	-0.013	37967		0.5349	
3 Nitrite as N		5.210				ND	
4 Bromide		6.280				ND	
5 Nitrate as N		7.045				ND	
6 Orthophosphate as P	9.495	9.477	0.018	152588		NC	
7 Sulfate		10.920				ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Report Date: 01-Jun-2020 08:34:17

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-013203.d

Injection Date: 30-May-2020 01:14:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: ccb

Worklist Smp#: 42

Client ID:

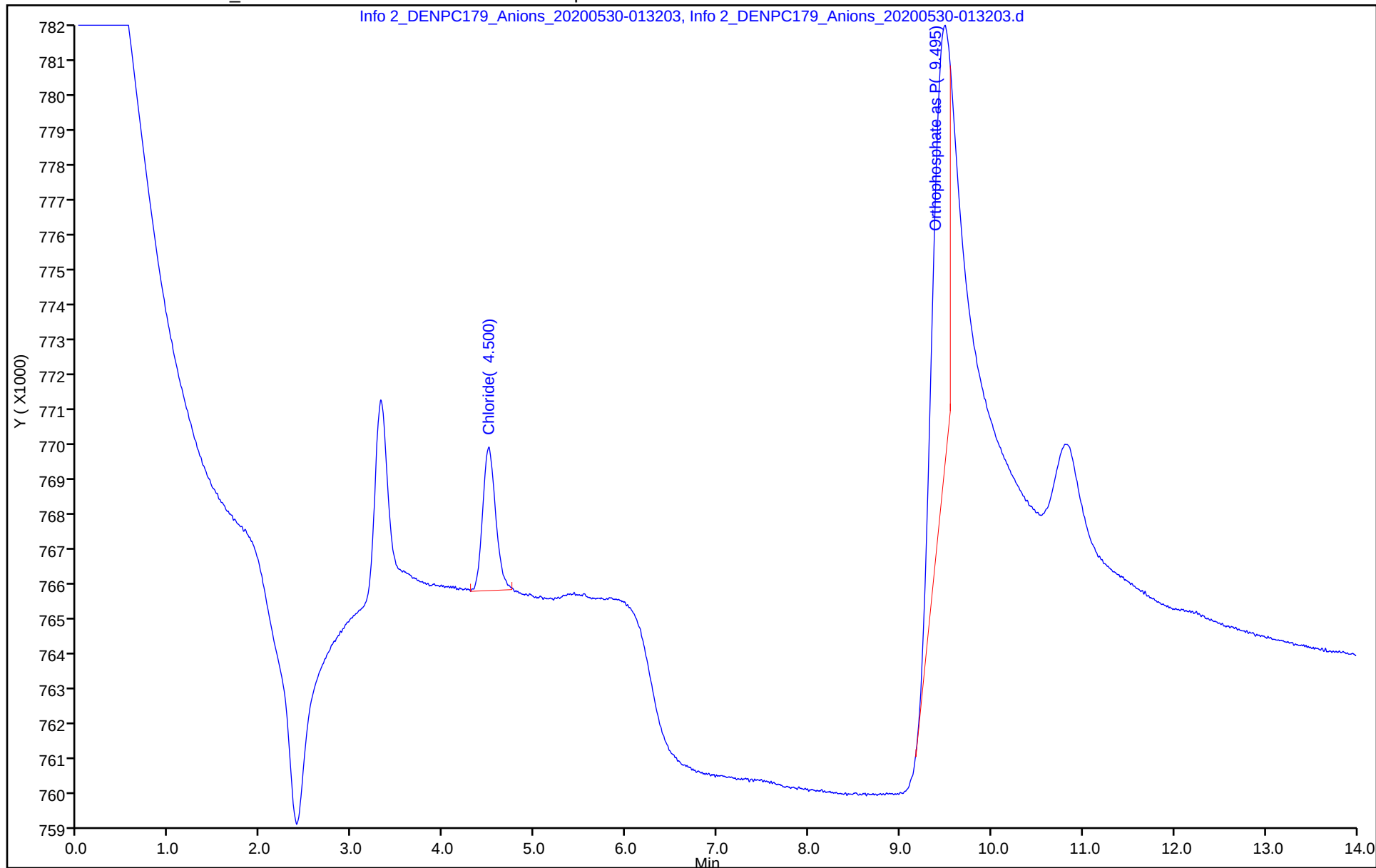
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-014
 Lims ID: lcs
 Client ID:
 Sample Type: LCS
 Inject. Date: 30-May-2020 01:32:00 ALS Bottle#: 0 Worklist Smp#: 43
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091945-043
 Misc. Info.: 280-0091945-043
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 01-Jun-2020 08:34:17 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124
 Column 1 : Det: Info 2_091554_1
 Process Host: CTX1004

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.312	3.327	-0.015	44834338	5.00	5.03	
2 Chloride	4.483	4.513	-0.030	417316545	100.0	98.4	
3 Nitrite as N	5.167	5.210	-0.043	40315066	NC	NC	
4 Bromide	6.222	6.280	-0.058	6315683	5.00	4.58	
5 Nitrate as N	6.968	7.045	-0.077	45807746	NC	NC	
6 Orthophosphate as P	9.428	9.477	-0.049	38029389	NC	NC	
7 Sulfate	10.768	10.920	-0.152	308620292	100.0	99.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

IC LCS_01743

Amount Added: 10.00

Units: mL

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-014930.d

Injection Date: 30-May-2020 01:32:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: lcs

Worklist Smp#: 43

Client ID:

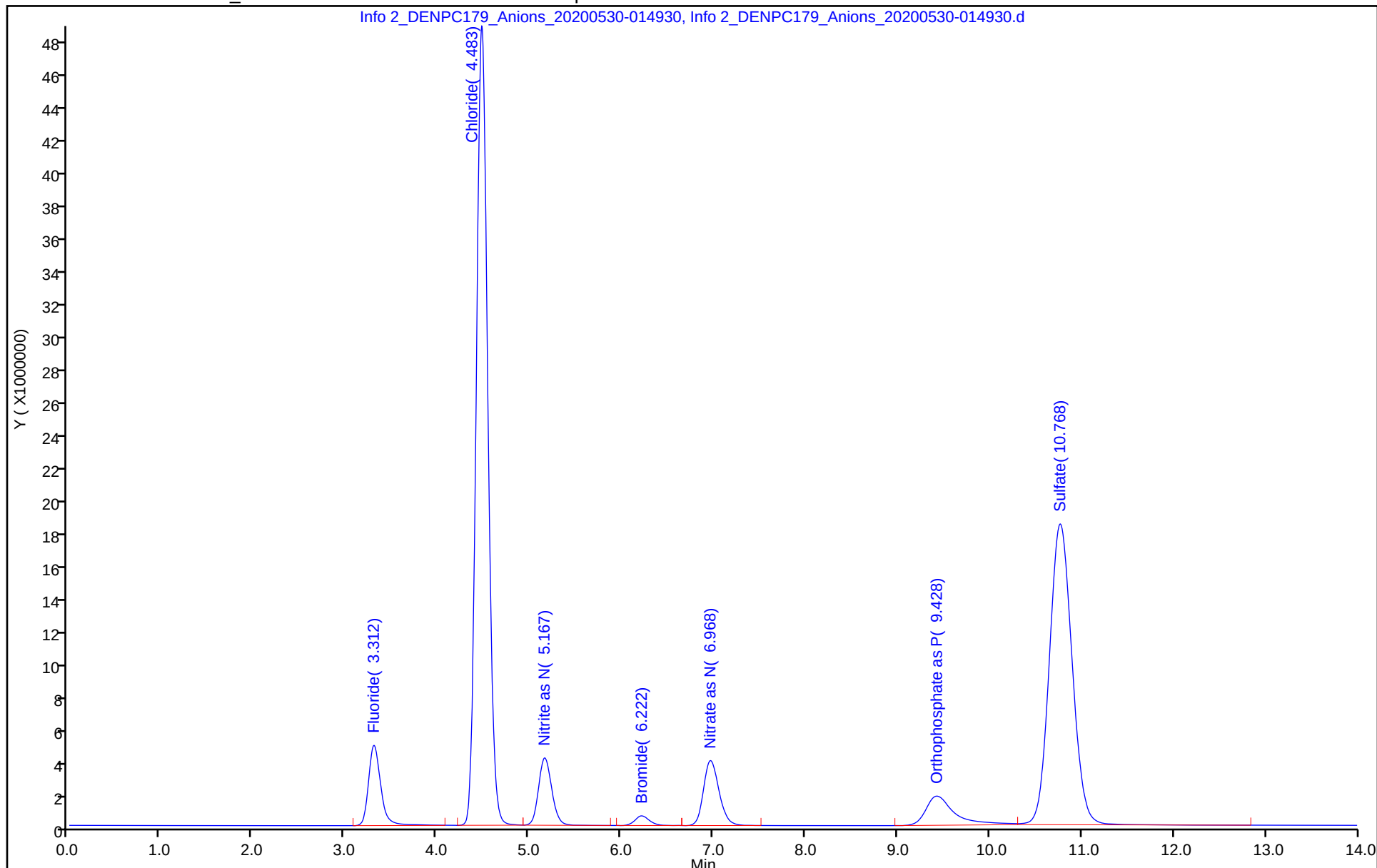
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-0200
 Lims ID: lcsd
 Client ID:
 Sample Type: LCSD
 Inject. Date: 30-May-2020 01:49:00 ALS Bottle#: 0 Worklist Smp#: 44
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091945-044
 Misc. Info.: 280-0091945-044
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 01-Jun-2020 08:34:17 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-1240
 Column 1 : Det: Info 2_091554_1
 Process Host: CTX1004

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.317	3.327	-0.010	42291563	5.00	4.76	
2 Chloride	4.492	4.513	-0.021	417780228	100.0	98.5	
3 Nitrite as N	5.175	5.210	-0.035	39860022	NC	NC	
4 Bromide	6.232	6.280	-0.048	6322389	5.00	4.58	
5 Nitrate as N	6.980	7.045	-0.065	45874334	NC	NC	
6 Orthophosphate as P	9.440	9.477	-0.037	33462215	NC	NC	
7 Sulfate	10.787	10.920	-0.133	307240064	100.0	99.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

IC LCS_01743

Amount Added: 10.00

Units: mL

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-020657.d

Injection Date: 30-May-2020 01:49:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: lcsd

Worklist Smp#: 44

Client ID:

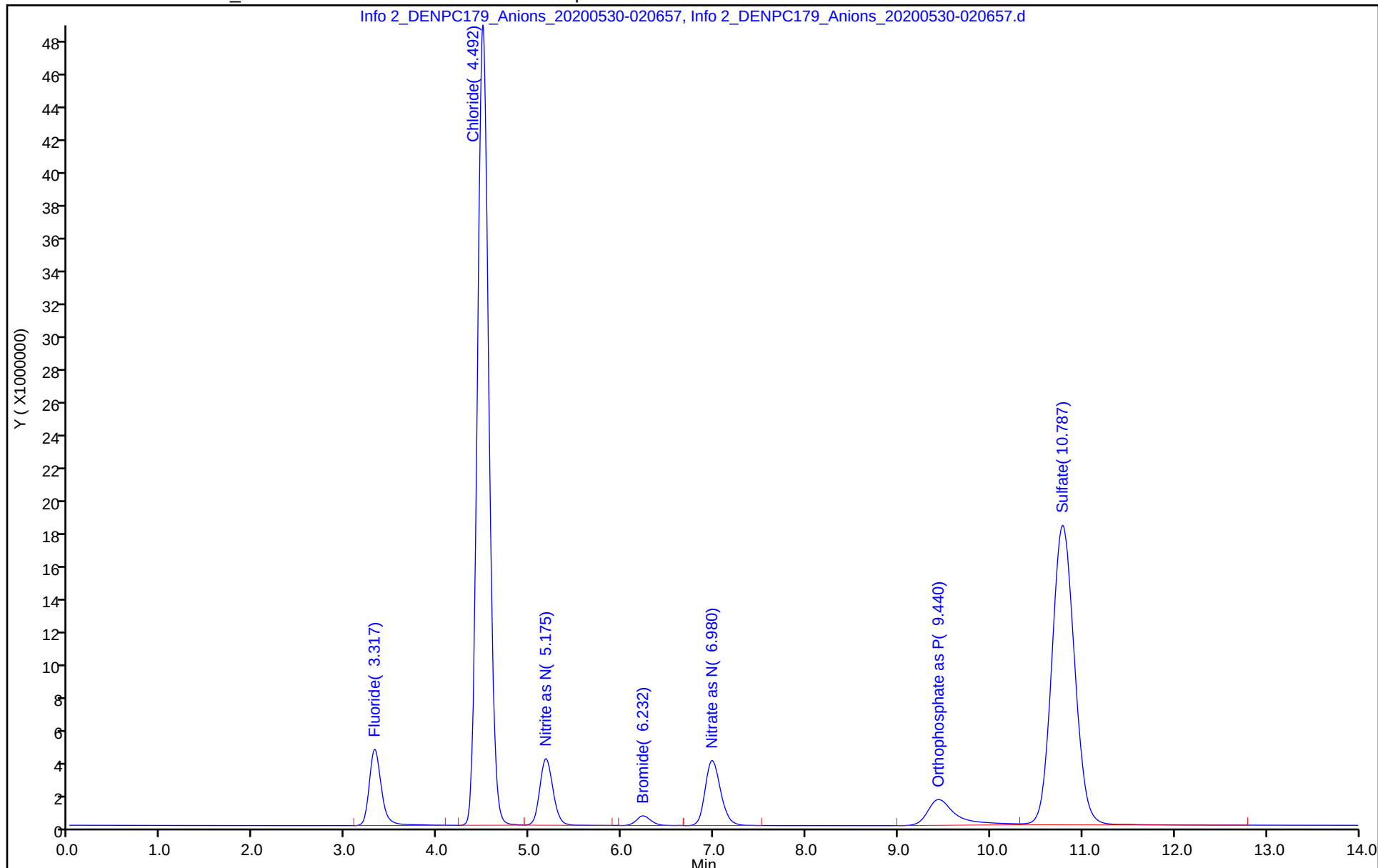
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-022
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 30-May-2020 02:07:00 ALS Bottle#: 0 Worklist Smp#: 45
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091945-045
 Misc. Info.: 280-0091945-045
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 01-Jun-2020 08:34:17 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124
 Column 1 : Det: Info 2_091554_1
 Process Host: CTX1004

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.320	3.327	-0.007	53581		0.1736	
2 Chloride	4.498	4.513	-0.015	36114		0.5345	
3 Nitrite as N		5.210				ND	
4 Bromide		6.280				ND	
5 Nitrate as N		7.045				ND	
6 Orthophosphate as P	9.492	9.477	0.015	138602		NC	
7 Sulfate		10.920				ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Report Date: 01-Jun-2020 08:34:18

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-022422.d

Injection Date: 30-May-2020 02:07:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: mb

Worklist Smp#: 45

Client ID:

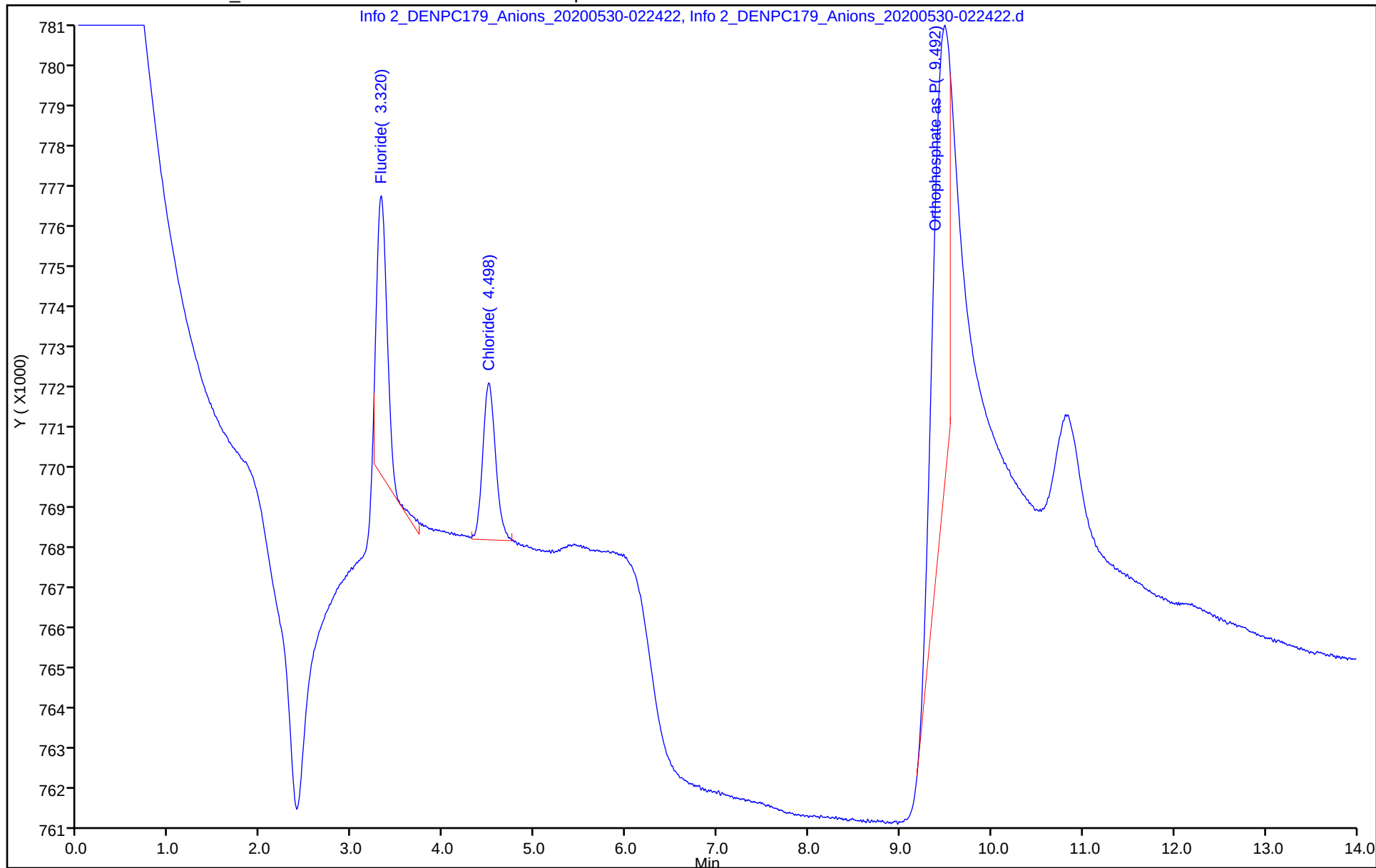
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-0443
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 30-May-2020 04:26:00 ALS Bottle#: 0 Worklist Smp#: 53
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091945-053
 Misc. Info.: 280-0091945-053
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Sublist: chrom-Anions_IC10*sub2
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 01-Jun-2020 08:34:20 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-1243

Column 1 : Det: Info 2_091554_1

Process Host: CTX1004

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.323	3.327	-0.004	42399874	5.00	4.77	
2 Chloride	4.500	4.513	-0.013	418844201	100.0	98.8	
3 Nitrite as N	5.187	5.210	-0.023	40022562	NC	NC	
4 Bromide	6.245	6.280	-0.035	6334916	5.00	4.59	
5 Nitrate as N	6.997	7.045	-0.048	45913245	NC	NC	
6 Orthophosphate as P	9.460	9.477	-0.017	32113769	NC	NC	
7 Sulfate	10.808	10.920	-0.112	311034496	100.0	100.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

IC LCS_01743

Amount Added: 10.00

Units: mL

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-044351.d

Injection Date: 30-May-2020 04:26:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: ccv

Worklist Smp#: 53

Client ID:

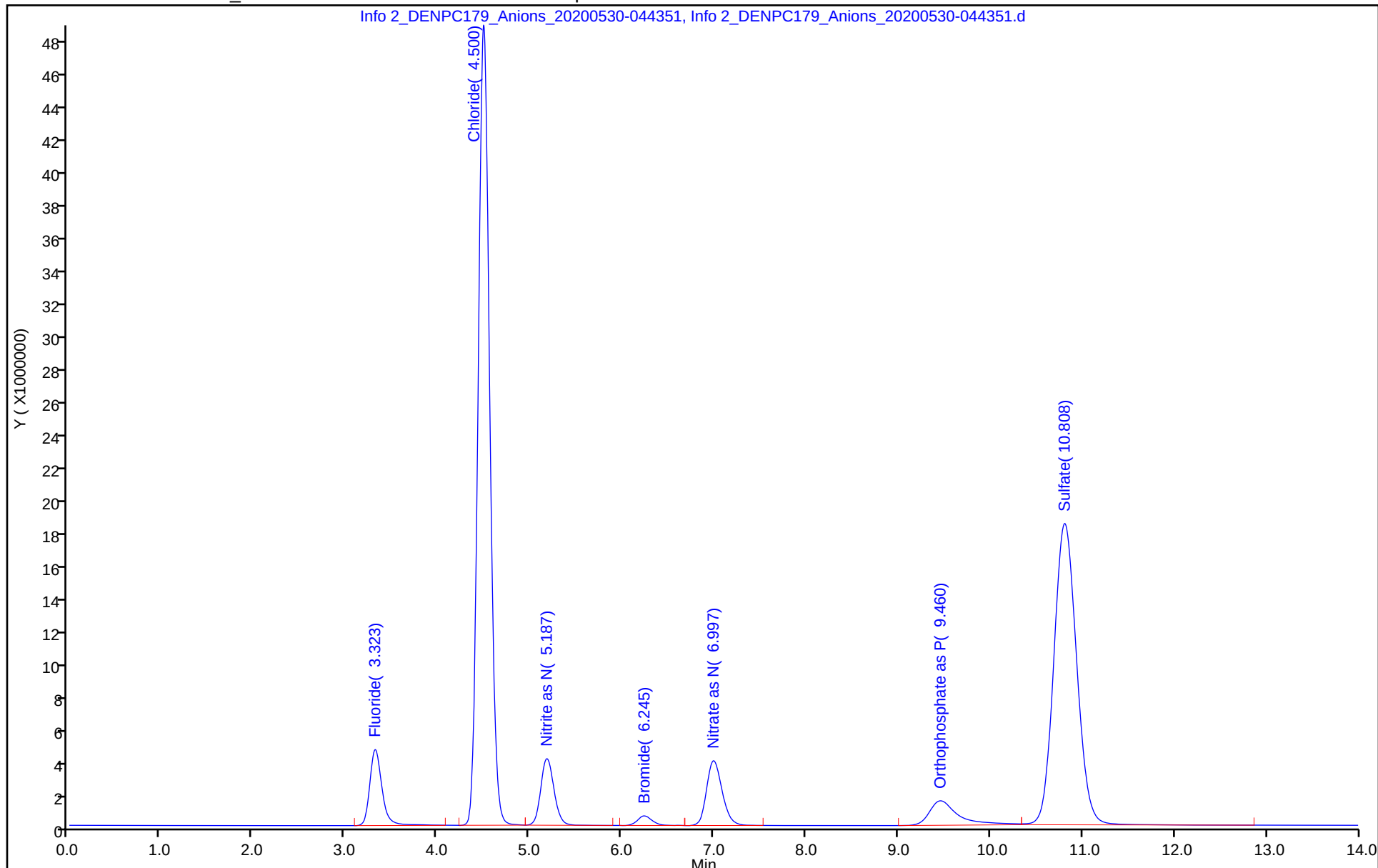
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-0503
 Lims ID: ccb
 Client ID:
 Sample Type: CCB
 Inject. Date: 30-May-2020 04:43:00 ALS Bottle#: 0 Worklist Smp#: 54
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091945-054
 Misc. Info.: 280-0091945-054
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 01-Jun-2020 08:34:20 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-1240
 Column 1 : Det: Info 2_091554_1
 Process Host: CTX1004

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.327				ND	
2 Chloride	4.512	4.513	-0.001	48550		0.5374	
3 Nitrite as N		5.210				ND	
4 Bromide		6.280				ND	
5 Nitrate as N		7.045				ND	
6 Orthophosphate as P	9.518	9.477	0.041	133941		NC	
7 Sulfate		10.920				ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Report Date: 01-Jun-2020 08:34:21

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-050119.d

Injection Date: 30-May-2020 04:43:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: ccb

Worklist Smp#: 54

Client ID:

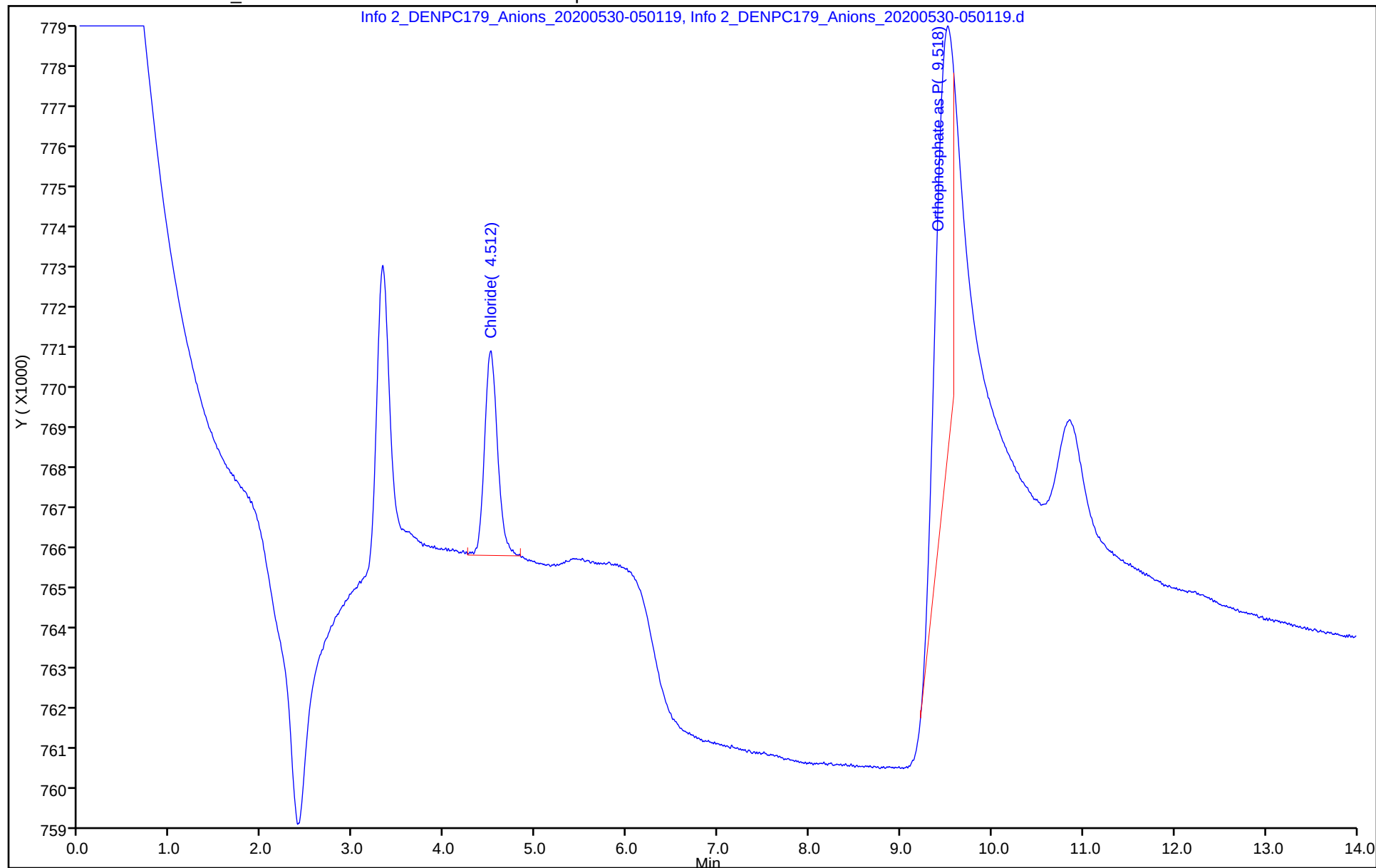
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-0813
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 30-May-2020 07:56:00 ALS Bottle#: 0 Worklist Smp#: 65
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091945-065
 Misc. Info.: 280-0091945-065
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Sublist: chrom-Anions_IC10*sub2
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 01-Jun-2020 08:34:25 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-1248
 Column 1 : Det: Info 2_091554_1
 Process Host: CTX1004

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.328	3.327	0.001	36777052	5.00	4.16	
2 Chloride	4.512	4.513	-0.001	423109671	100.0	99.8	
3 Nitrite as N	5.198	5.210	-0.012	41027046	NC	NC	
4 Bromide	6.257	6.280	-0.023	6426917	5.00	4.66	
5 Nitrate as N	7.010	7.045	-0.035	46571271	NC	NC	
6 Orthophosphate as P	9.478	9.477	0.001	28341000	NC	NC	
7 Sulfate	10.830	10.920	-0.090	314099890	100.0	101.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

IC LCS_01743

Amount Added: 10.00

Units: mL

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-081340.d

Injection Date: 30-May-2020 07:56:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: ccv

Worklist Smp#: 65

Client ID:

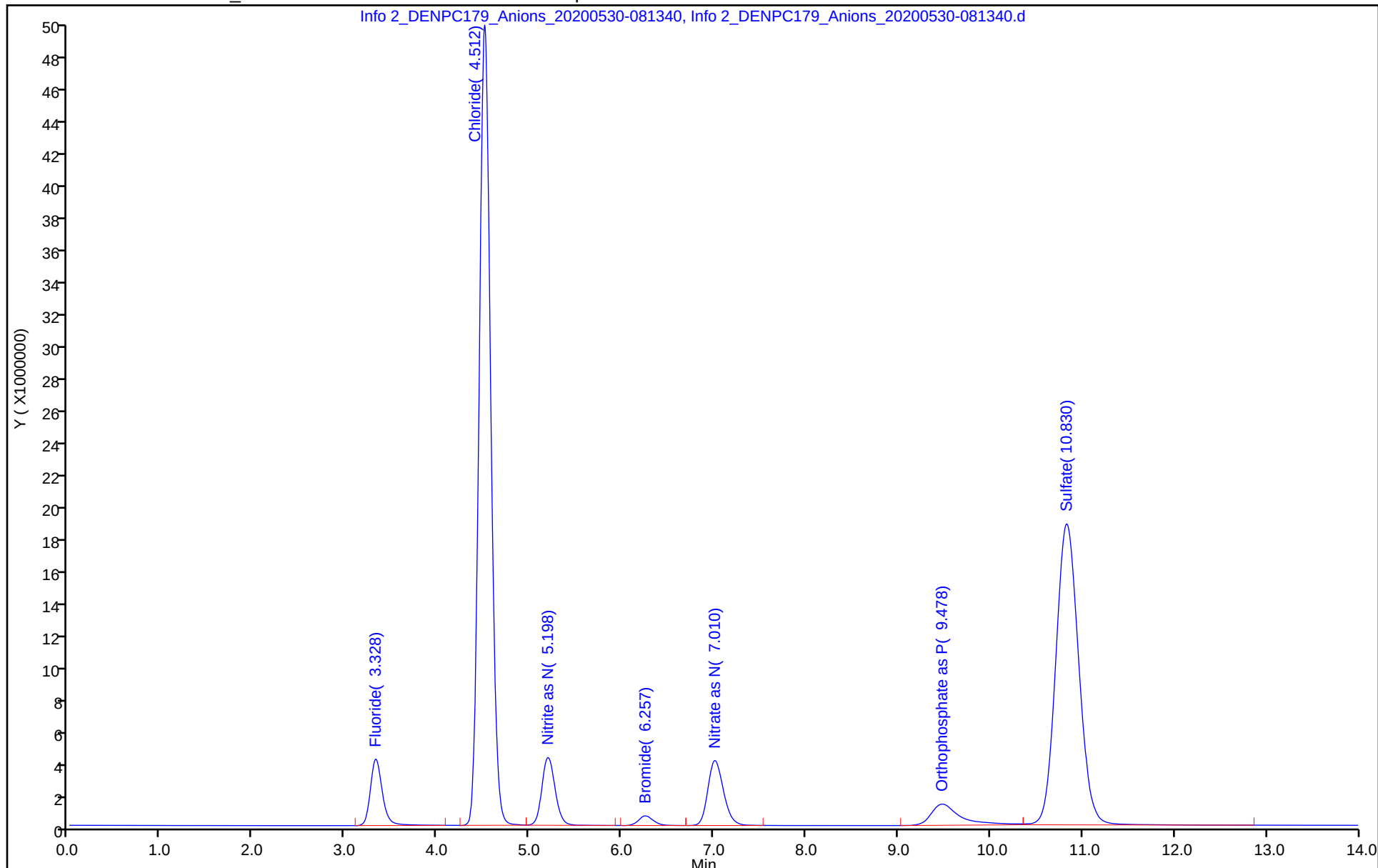
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-083
 Lims ID: ccb
 Client ID:
 Sample Type: CCB
 Inject. Date: 30-May-2020 08:13:00 ALS Bottle#: 0 Worklist Smp#: 66
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091945-066
 Misc. Info.: 280-0091945-066
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 01-Jun-2020 08:34:25 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124
 Column 1 : Det: Info 2_091554_1
 Process Host: CTX1004

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.327				ND	
2 Chloride	4.515	4.513	0.002	48501		0.5374	
3 Nitrite as N		5.210				ND	
4 Bromide		6.280				ND	
5 Nitrate as N		7.045				ND	
6 Orthophosphate as P	9.532	9.477	0.055	102852		NC	
7 Sulfate		10.920				ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Report Date: 01-Jun-2020 08:34:25

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-083112.d

Injection Date: 30-May-2020 08:13:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: ccb

Worklist Smp#: 66

Client ID:

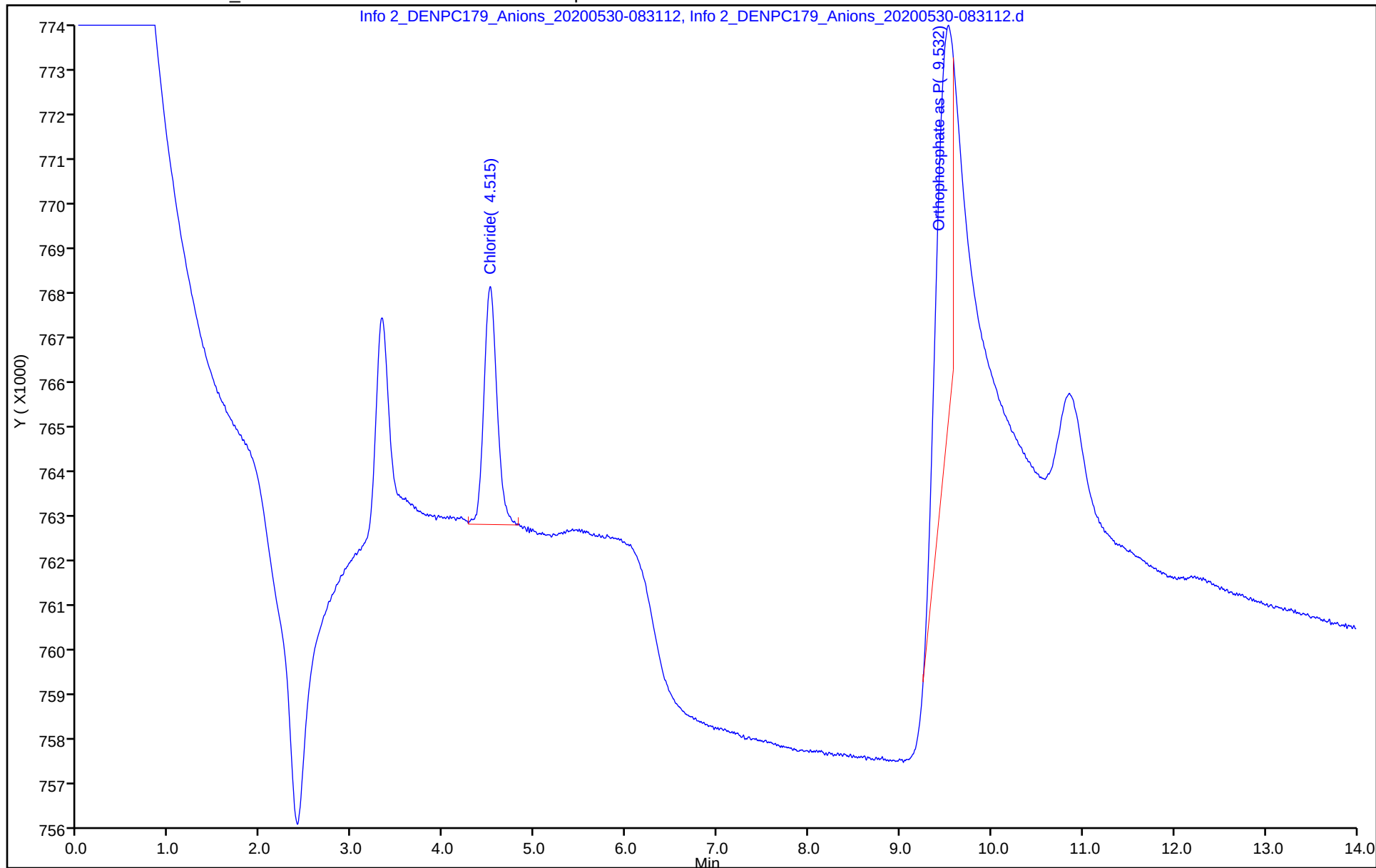
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-114
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 30-May-2020 11:26:00 ALS Bottle#: 0 Worklist Smp#: 77
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091945-077
 Misc. Info.: 280-0091945-077
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Sublist: chrom-Anions_IC10*sub2
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 01-Jun-2020 08:34:29 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124

Column 1 : Det: Info 2_091554_1

Process Host: CTX1004

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.320	3.327	-0.007	34268230	5.00	3.89	
2 Chloride	4.498	4.513	-0.015	427693417	100.0	100.8	
3 Nitrite as N	5.183	5.210	-0.027	41760356	NC	NC	
4 Bromide	6.237	6.280	-0.043	6551967	5.00	4.75	
5 Nitrate as N	6.990	7.045	-0.055	47280819	NC	NC	
6 Orthophosphate as P	9.452	9.477	-0.025	30547051	NC	NC	
7 Sulfate	10.800	10.920	-0.120	317272019	100.0	102.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

IC LCS_01743

Amount Added: 10.00

Units: mL

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-114348.d

Injection Date: 30-May-2020 11:26:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: ccv

Worklist Smp#: 77

Client ID:

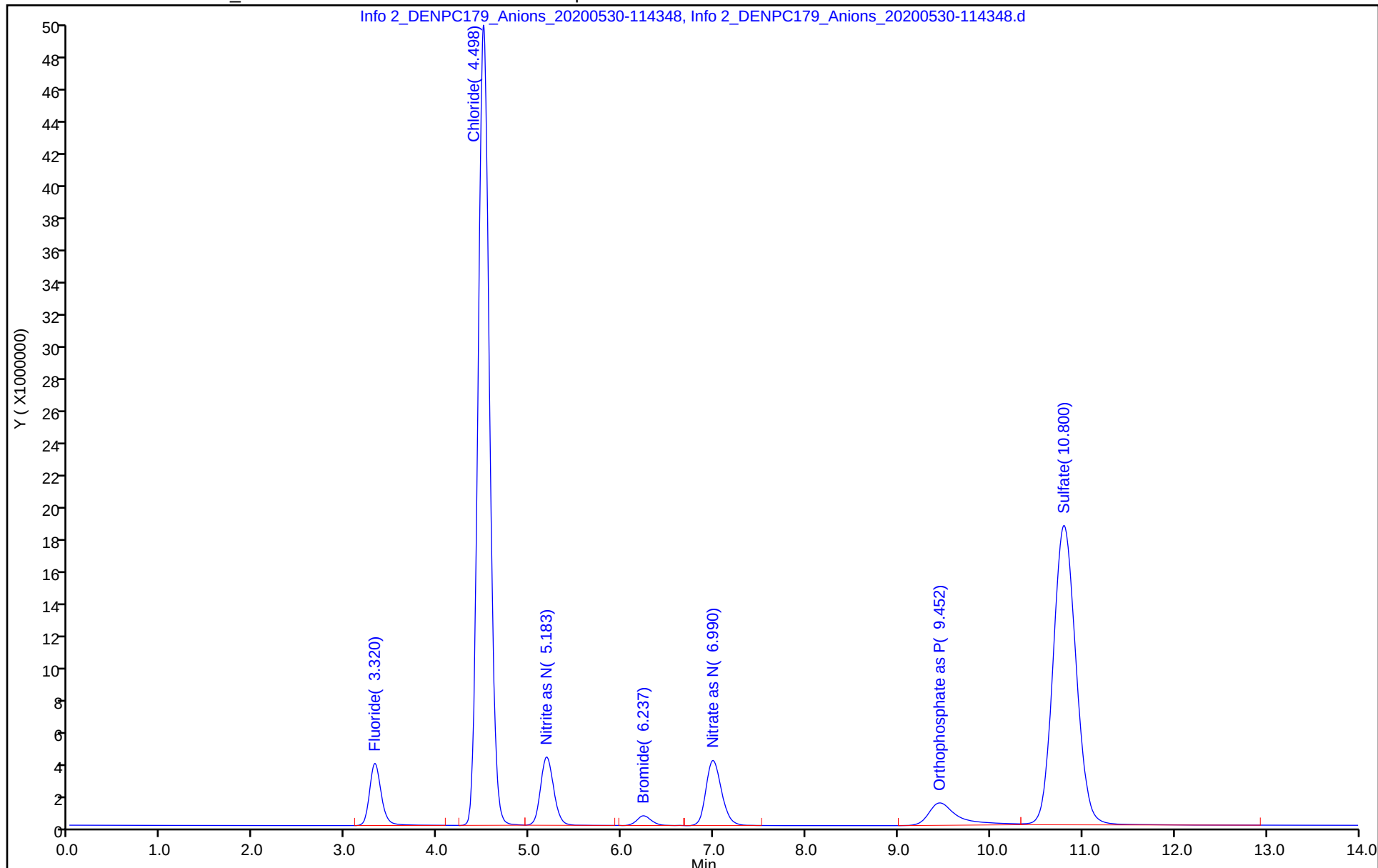
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-120
 Lims ID: ccb
 Client ID:
 Sample Type: CCB
 Inject. Date: 30-May-2020 11:43:00 ALS Bottle#: 0 Worklist Smp#: 78
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091945-078
 Misc. Info.: 280-0091945-078
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 01-Jun-2020 08:34:29 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124
 Column 1 : Det: Info 2_091554_1
 Process Host: CTX1004

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.327				ND	
2 Chloride	4.507	4.513	-0.006	80931		0.5450	
3 Nitrite as N		5.210				ND	
4 Bromide		6.280				ND	
5 Nitrate as N		7.045				ND	
6 Orthophosphate as P	9.522	9.477	0.045	232467		NC	
7 Sulfate		10.920				ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Report Date: 01-Jun-2020 08:34:29

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-120117.d

Injection Date: 30-May-2020 11:43:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: ccb

Worklist Smp#: 78

Client ID:

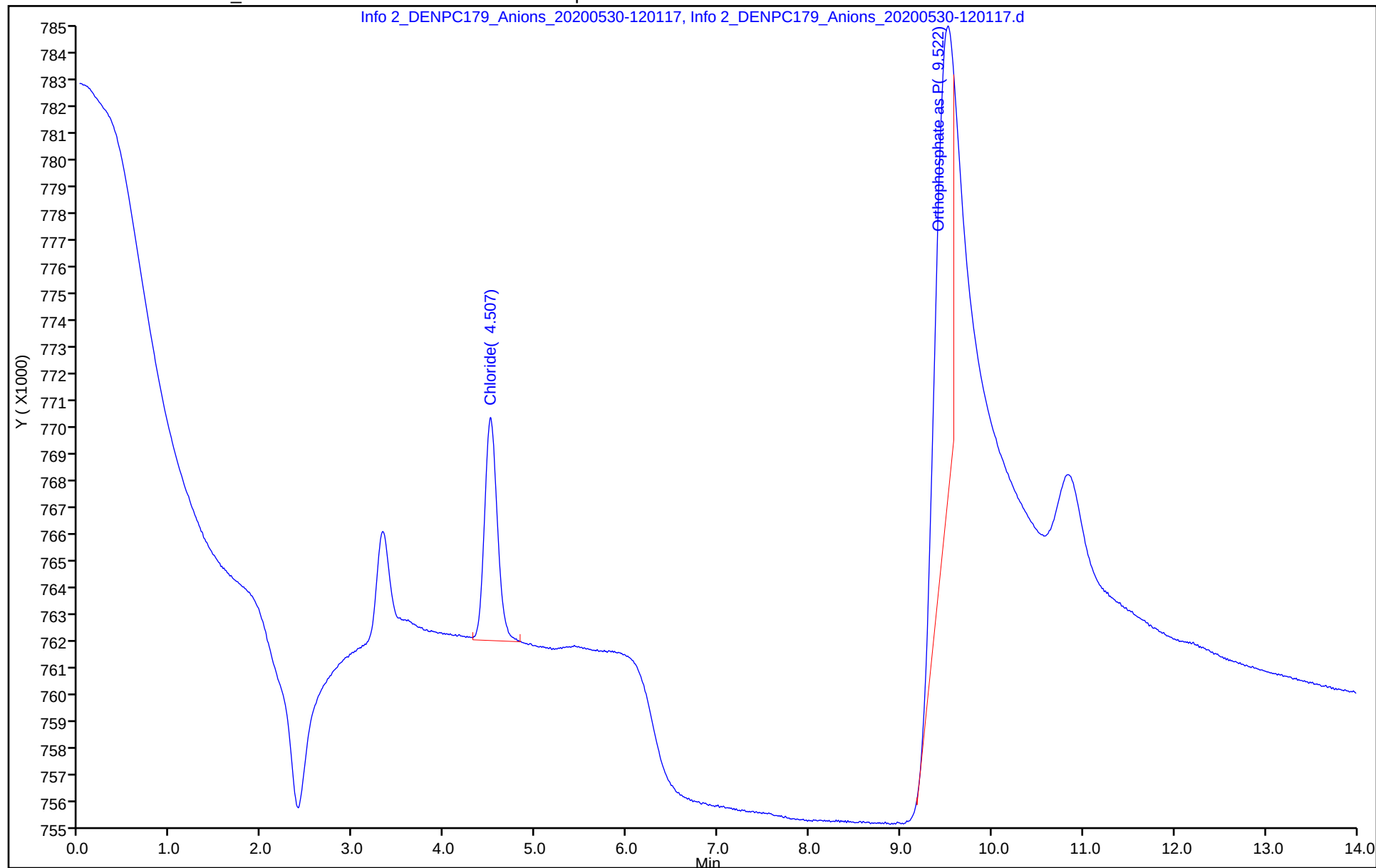
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-1513
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 30-May-2020 14:56:00 ALS Bottle#: 0 Worklist Smp#: 89
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091945-089
 Misc. Info.: 280-0091945-089
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Sublist: chrom-Anions_IC10*sub2
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 01-Jun-2020 08:34:33 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-1248
 Column 1 : Det: Info 2_091554_1
 Process Host: CTX1004

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.327	3.327	0.000	35137998	5.00	3.98	
2 Chloride	4.508	4.513	-0.005	429563480	100.0	101.3	
3 Nitrite as N	5.193	5.210	-0.017	41855336	NC	NC	
4 Bromide	6.248	6.280	-0.032	6582782	5.00	4.77	
5 Nitrate as N	7.002	7.045	-0.043	47473818	NC	NC	
6 Orthophosphate as P	9.470	9.477	-0.007	28558015	NC	NC	
7 Sulfate	10.820	10.920	-0.100	318449352	100.0	102.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

IC LCS_01743

Amount Added: 10.00

Units: mL

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-151334.d

Injection Date: 30-May-2020 14:56:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: ccv

Worklist Smp#: 89

Client ID:

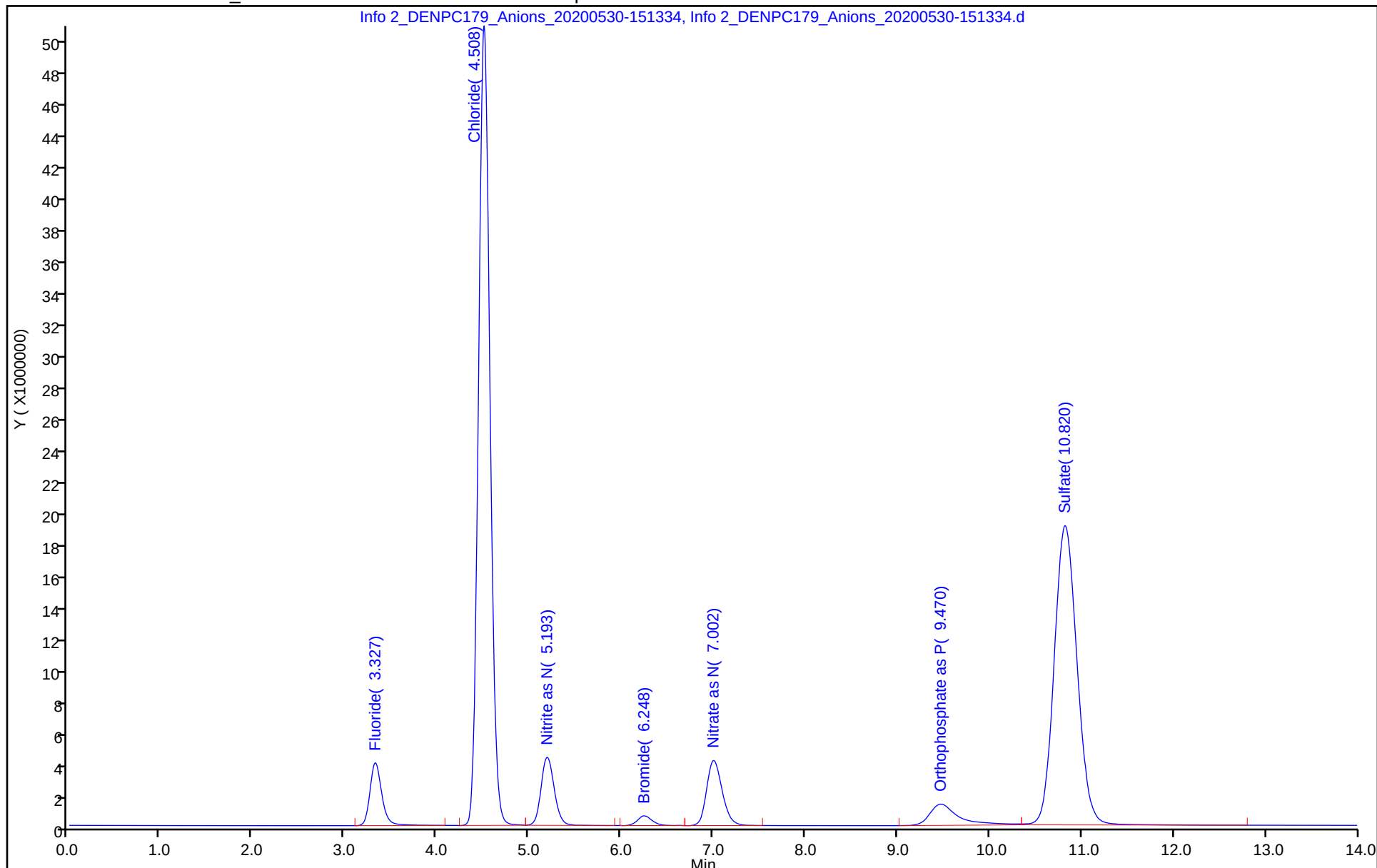
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-153
 Lims ID: ccb
 Client ID:
 Sample Type: CCB
 Inject. Date: 30-May-2020 15:13:00 ALS Bottle#: 0 Worklist Smp#: 90
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091945-090
 Misc. Info.: 280-0091945-090
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 01-Jun-2020 08:34:33 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124
 Column 1 : Det: Info 2_091554_1
 Process Host: CTX1004

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.327				ND	
2 Chloride	4.507	4.513	-0.006	57433		0.5395	
3 Nitrite as N		5.210				ND	
4 Bromide		6.280				ND	
5 Nitrate as N		7.045				ND	
6 Orthophosphate as P	9.518	9.477	0.041	136531		NC	
7 Sulfate		10.920				ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Report Date: 01-Jun-2020 08:34:33

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-153101.d

Injection Date: 30-May-2020 15:13:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: ccb

Worklist Smp#: 90

Client ID:

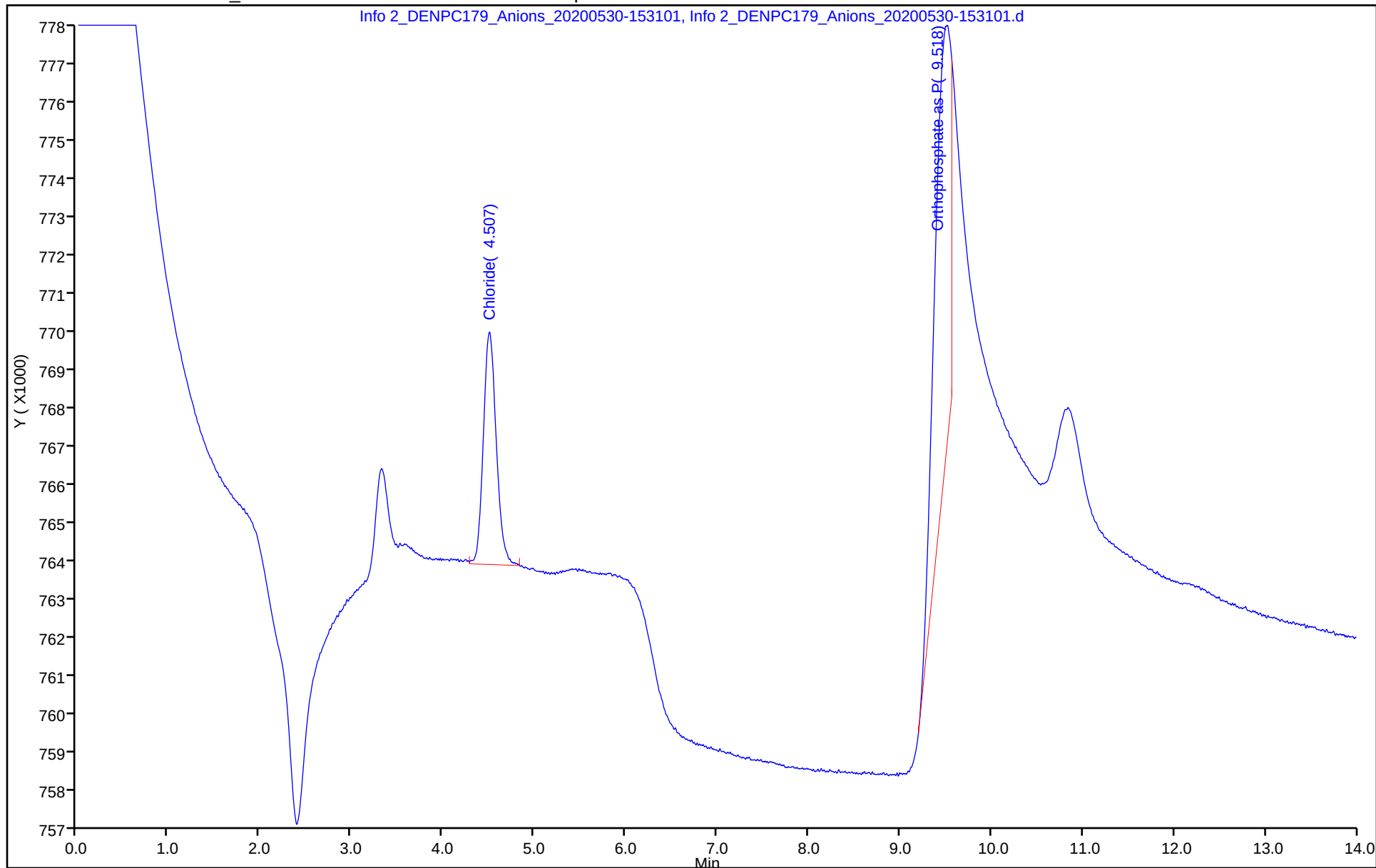
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-1623
 Lims ID: 280-137048-F-1
 Client ID: EW7-PM21A-3-25
 Sample Type: Client
 Inject. Date: 30-May-2020 16:05:00 ALS Bottle#: 0 Worklist Smp#: 93
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091945-093
 Misc. Info.: 280-0091945-093
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 01-Jun-2020 08:34:33 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-1243
 Column 1 : Det: Info 2_091554_1
 Process Host: CTX1004

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride	3.323	3.327	-0.004	870911	0.2623	
2 Chloride	4.500	4.513	-0.013	126946955	30.3	
3 Nitrite as N	5.215	5.210	0.005	7294038	NC	
4 Bromide	6.285	6.280	0.005	203659	0.2150	
5 Nitrate as N	7.008	7.045	-0.037	67030355	NC	
6 Orthophosphate as P		9.477			ND	
7 Sulfate	10.832	10.920	-0.088	152450283	49.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-162324.d

Injection Date: 30-May-2020 16:05:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: 280-137048-F-1

Lab Sample ID: 280-137048-1

Worklist Smp#: 93

Client ID: EW7-PM21A-3-25

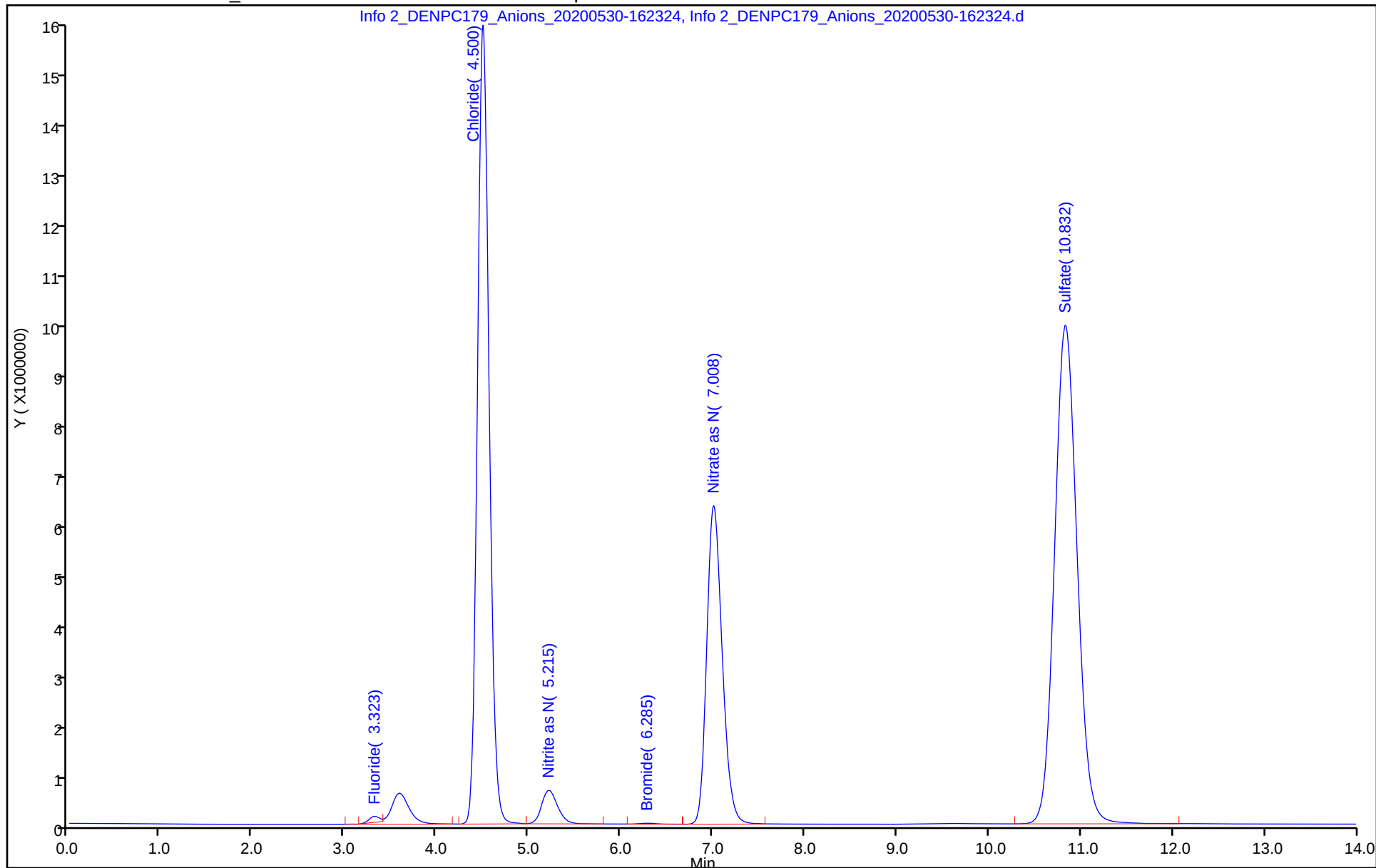
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-164
 Lims ID: 280-137048-F-2
 Client ID: EW7-PM22A-3-25
 Sample Type: Client
 Inject. Date: 30-May-2020 16:23:00 ALS Bottle#: 0 Worklist Smp#: 94
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091945-094
 Misc. Info.: 280-0091945-094
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 01-Jun-2020 08:34:33 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124
 Column 1 : Det: Info 2_091554_1
 Process Host: CTX1004

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride	3.325	3.327	-0.002	777011	0.2521	
2 Chloride	4.498	4.513	-0.015	176023063	41.8	
3 Nitrite as N	5.220	5.210	0.010	14475784	NC	
4 Bromide	6.288	6.280	0.008	234852	0.2373	
5 Nitrate as N	7.032	7.045	-0.013	12927957	NC	
6 Orthophosphate as P		9.477			ND	
7 Sulfate	10.825	10.920	-0.095	92741164	30.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-164054.d

Injection Date: 30-May-2020 16:23:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: 280-137048-F-2

Lab Sample ID: 280-137048-2

Worklist Smp#: 94

Client ID: EW7-PM22A-3-25

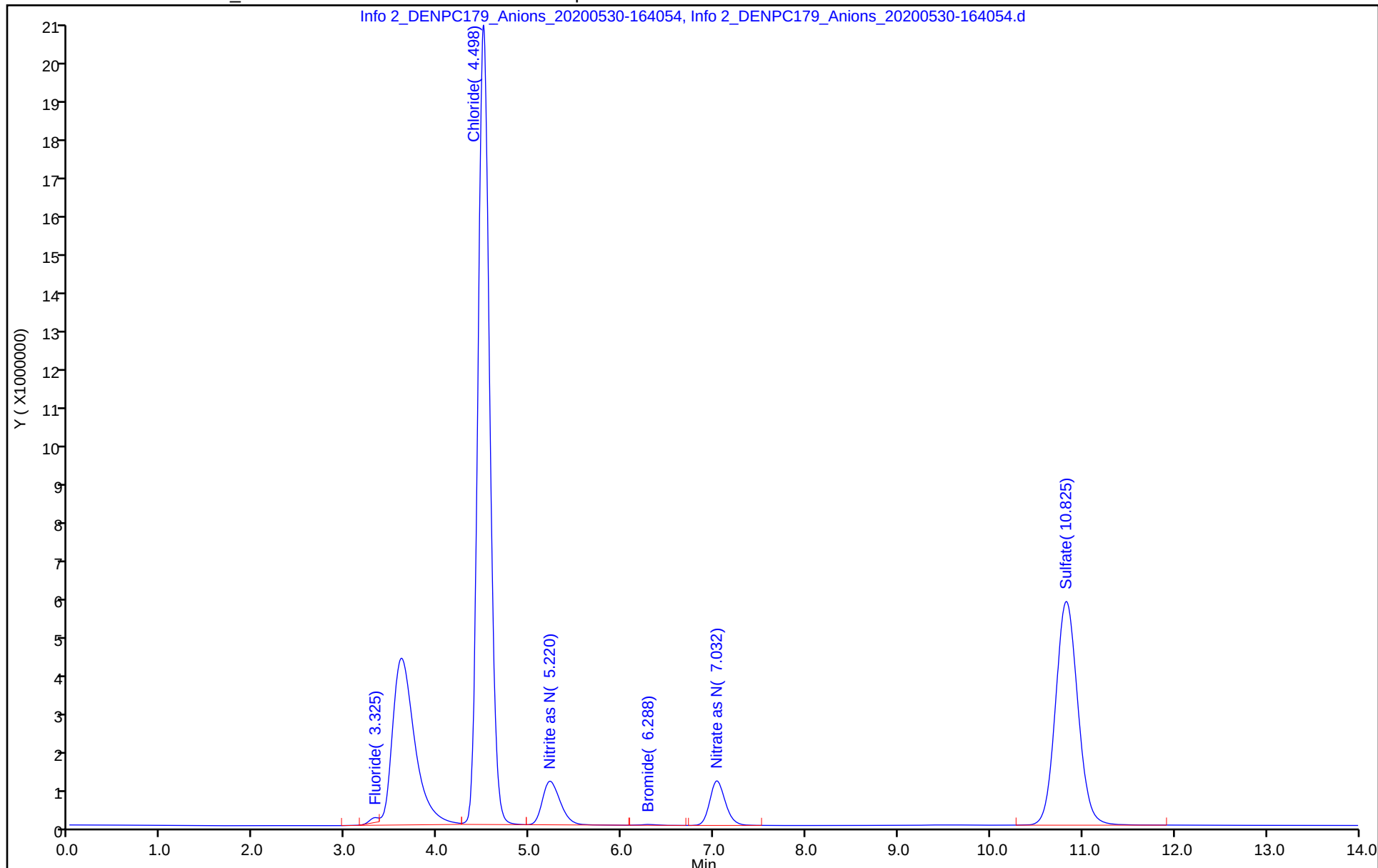
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-1750
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 30-May-2020 17:33:00 ALS Bottle#: 0 Worklist Smp#: 98
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091945-098
 Misc. Info.: 280-0091945-098
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Sublist: chrom-Anions_IC10*sub2
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 01-Jun-2020 08:34:36 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-1240
 Column 1 : Det: Info 2_091554_1
 Process Host: CTX1004

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	3.313	3.327	-0.014	35623235	5.00	4.03	
2 Chloride	4.490	4.513	-0.023	430230819	100.0	101.4	
3 Nitrite as N	5.173	5.210	-0.037	42128814	NC	NC	
4 Bromide	6.223	6.280	-0.057	6595101	5.00	4.78	
5 Nitrate as N	6.973	7.045	-0.072	47636927	NC	NC	
6 Orthophosphate as P	9.432	9.477	-0.045	27240368	NC	NC	
7 Sulfate	10.775	10.920	-0.145	318692117	100.0	102.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

IC LCS_01743

Amount Added: 10.00

Units: mL

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-175050.d

Injection Date: 30-May-2020 17:33:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: ccv

Worklist Smp#: 98

Client ID:

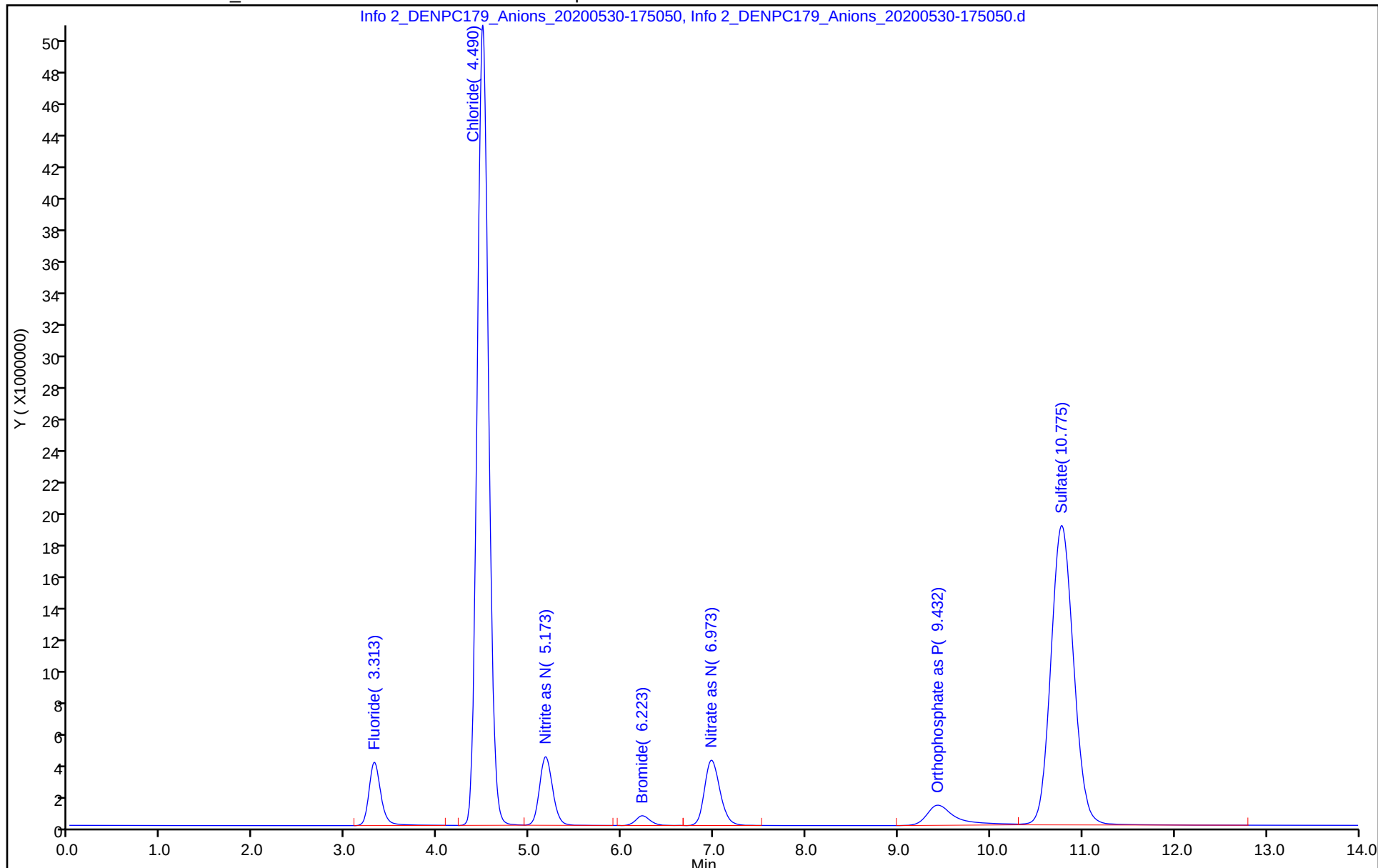
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-180
 Lims ID: ccb
 Client ID:
 Sample Type: CCB
 Inject. Date: 30-May-2020 17:50:00 ALS Bottle#: 0 Worklist Smp#: 99
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 280-0091945-099
 Misc. Info.: 280-0091945-099
 Operator ID: wetchemd Instrument ID: WC_IonChrom10
 Method: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Anions_IC10.m
 Limit Group: Wet - Anions 28D
 Last Update: 01-Jun-2020 08:34:36 Calib Date: 14-May-2020 12:30:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200514-91512.b\Info 2_DENPC179_Anions_20200514-124
 Column 1 : Det: Info 2_091554_1
 Process Host: CTX1004

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		3.327				ND	
2 Chloride	4.508	4.513	-0.005	60329		0.5401	
3 Nitrite as N		5.210				ND	
4 Bromide		6.280				ND	
5 Nitrate as N		7.045				ND	
6 Orthophosphate as P	9.520	9.477	0.043	123396		NC	
7 Sulfate		10.920				ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Report Date: 01-Jun-2020 08:34:36

Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom10\20200529-91945.b\Info 2_DENPC179_Anions_20200530-180821.d

Injection Date: 30-May-2020 17:50:00

Instrument ID: WC_IonChrom10

Operator ID: wetchemd

Lims ID: ccb

Worklist Smp#: 99

Client ID:

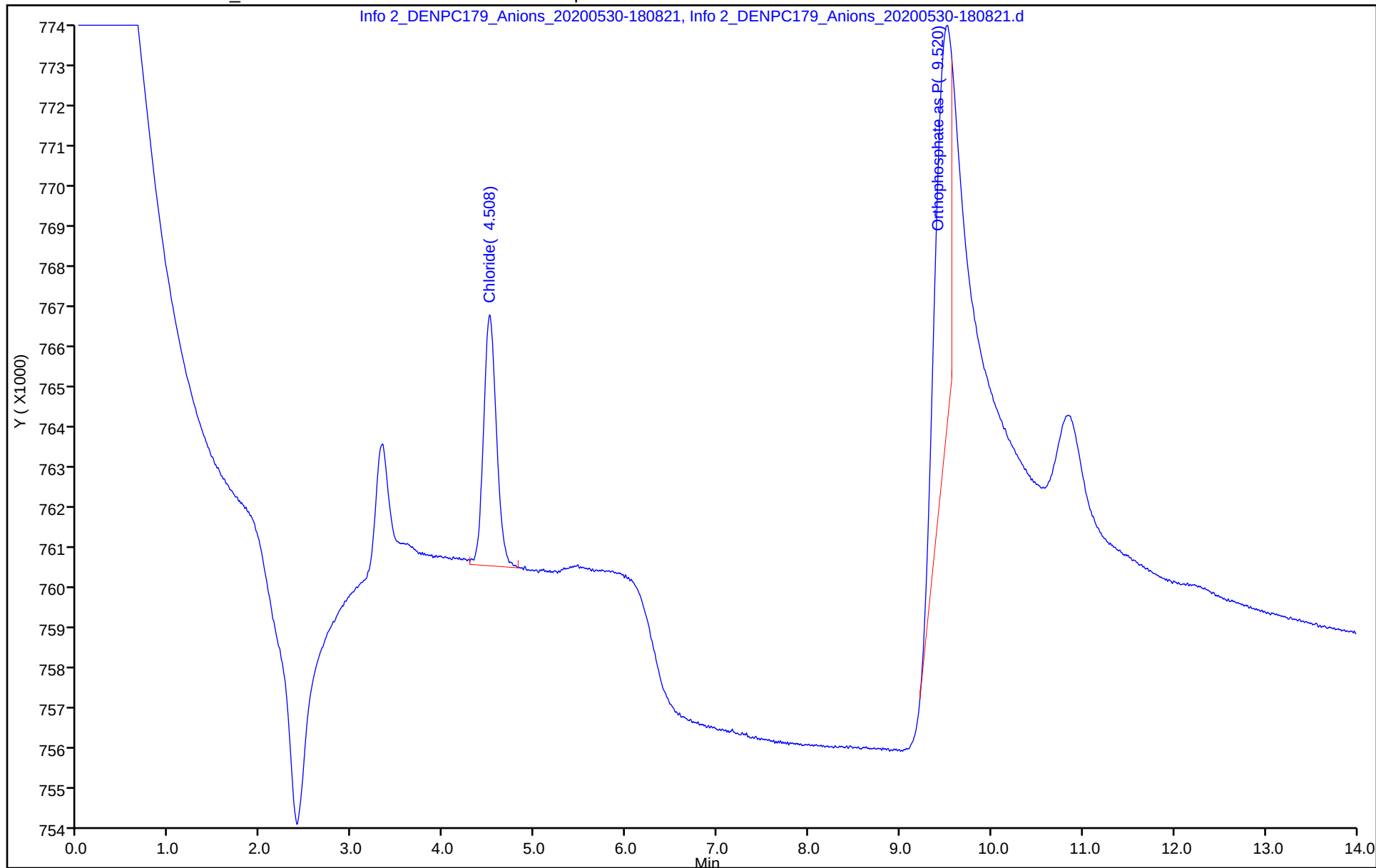
Injection Vol: 5.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions_IC10

Limit Group: Wet - Anions 28D



	Analysis	Sample Name	Manua	Result	Notes	Status	Date / Time	Vial
1	NPOC	icv	1.000	NPOC:21.64mg		Comple	6/9/2020 5:	1
2	NPOC	icb	1.000	NPOC:-0.00252		Comple	6/9/2020 6:	2
3	NPOC	LCS 280-498065/1-A	1.000	NPOC:26.80mg		Comple	6/9/2020 6:	3
4	NPOC	LCSD 280-498065/2-A	1.000	NPOC:27.37mg		Comple	6/9/2020 6:	4
5	NPOC	MB 280-498065/3-A	1.000	NPOC:0.2759m		Comple	6/9/2020 6:	5
6	NPOC	tic	1.000	NPOC:0.08253		Comple	6/9/2020 7:	6
7	NPOC	280-136897-B-1-B	1.000	NPOC:5.605mg		Comple	6/9/2020 7:	7
8	NPOC	280-136897-B-1-C MS	1.000	NPOC:33.14mg		Comple	6/9/2020 7:	8
9	NPOC	280-136897-B-1-D MS	1.000	NPOC:32.75mg		Comple	6/9/2020 7:	9
10	NPOC	280-136897-B-1-E DU	1.000	NPOC:5.242mg		Comple	6/9/2020 8:	10
11	NPOC	280-136897-C-2-B	1.000	NPOC:5.159mg		Comple	6/9/2020 8:	11
12	NPOC	280-136897-C-3-B	1.000	NPOC:5.620mg		Comple	6/9/2020 8:	12
13	NPOC	280-136897-C-4-B	1.000	NPOC:5.807mg		Comple	6/9/2020 9:	13
14	NPOC	280-137048-D-1-A	1.000	NPOC:11.20mg		Comple	6/9/2020 9:	14
15	NPOC	ccv	1.000	NPOC:27.01mg		Comple	6/9/2020 9:	15
16	NPOC	ccb	1.000	NPOC:-0.00603		Comple	6/9/2020 9:	16
17	NPOC	280-137048-D-2-A	2.000	NPOC:77.08mg		Comple	6/9/2020 1:	17
18	NPOC	280-137084-D-1-A	1.000	NPOC:48.38mg		Comple	6/9/2020 1:	18
19	NPOC	280-137084-D-2-A	1.000	NPOC:35.91mg		Comple	6/9/2020 1:	19
20	NPOC	280-137084-D-3-A	2.000	NPOC:165.5mg		Comple	6/9/2020 1:	20
21	NPOC	280-137084-D-4-A	1.000	NPOC:68.16mg		Comple	6/9/2020 1:	21
22	NPOC	280-137084-D-4-B MS	1.000	NPOC:88.01mg		Comple	6/9/2020 1:	22
23	NPOC	280-137084-D-4-C MS	1.000	NPOC:91.66mg		Comple	6/9/2020 1:	23
24	NPOC	280-137084-D-5-A	2.000	NPOC:107.5mg		Comple	6/10/2020	24
25	NPOC	lcs	1.000	NPOC:27.85mg		Comple	6/10/2020	25
26	NPOC	lcsd	1.000	NPOC:27.59mg		Comple	6/10/2020	26
27	NPOC	ccv	1.000	NPOC:28.46mg		Comple	6/10/2020	27
28	NPOC	ccb	1.000	NPOC:0.01169		Comple	6/10/2020	28
29	NPOC	mb	1.000	NPOC:-0.00952		Comple	6/10/2020	29
30	NPOC	tic	1.000	NPOC:0.08779		Comple	6/10/2020	30
31	NPOC	280-136849-B-2	1.000	NPOC:0.6231m		Comple	6/10/2020	31
32	NPOC	280-136849-B-3	1.000	NPOC:0.3564m		Comple	6/10/2020	32
33	NPOC	280-136849-B-4	1.000	NPOC:0.6274m		Comple	6/10/2020	33
34	NPOC	280-137328-B-1	1.000	NPOC:8.880mg		Comple	6/10/2020	34
35	NPOC	ms 280-137328-B-1	1.000	NPOC:37.30mg		Comple	6/10/2020	35
36	NPOC	msd 280-137328-B-1	1.000	NPOC:36.18mg		Comple	6/10/2020	36
37	NPOC	280-137328-B-2	1.000	NPOC:1.456mg		Comple	6/10/2020	37
38	NPOC	280-137328-B-3	1.000	NPOC:2.611mg		Comple	6/10/2020	38
39	NPOC	ccv	1.000	NPOC:28.20mg		Comple	6/10/2020	39
40	NPOC	ccb	1.000	NPOC:0.00695		Comple	6/10/2020	40
41	NPOC	280-137328-B-4	1.000	NPOC:9.124mg		Comple	6/10/2020	41
42	NPOC	280-137328-B-6	20.00	NPOC:364.7mg		Comple	6/10/2020	42
43	NPOC	280-136897-B-2	1.000	NPOC:5.831mg		Comple	6/10/2020	43
44	NPOC	280-136897-B-3	1.000	NPOC:6.009mg		Comple	6/10/2020	44
45	NPOC	280-136897-B-4	1.000	NPOC:5.998mg		Comple	6/10/2020	45
46	NPOC	lcs	1.000	NPOC:28.39mg		Comple	6/10/2020	46
47	NPOC	mb	1.000	NPOC:0.00863		Comple	6/10/2020	47
48	NPOC	tic	1.000	NPOC:0.07473		Comple	6/10/2020	48
49	NPOC	280-137163-D-4	1.000	NPOC:3.884mg		Comple	6/10/2020	49
50	NPOC	ms 280-137163-D-4	1.000	NPOC:32.43mg		Comple	6/10/2020	50
51	NPOC	ccv	1.000	NPOC:27.93mg		Comple	6/10/2020	51
52	NPOC	ccb	1.000	NPOC:0.01993		Comple	6/10/2020	52
53	NPOC	msd 280-137163-D-4	1.000	NPOC:32.22mg		Comple	6/10/2020	53

	Analysis	Sample Name	Manua	Result	Notes	Status	Date / Time	Vial
54	NPOC	280-137163-D-1	1.000	NPOC:1.056mg		Comple	6/10/2020	54
55	NPOC	280-137163-D-2	1.000	NPOC:1.275mg		Comple	6/10/2020	55
56	NPOC	280-137163-D-3	1.000	NPOC:0.9836m		Comple	6/10/2020	56
57	NPOC	280-136985-C-1	1.000	NPOC:1.204mg		Comple	6/10/2020	57
58	NPOC	280-136985-C-2	1.000	NPOC:7.153mg		Comple	6/10/2020	58
59	NPOC	280-136985-C-3	1.000	NPOC:1.569mg		Comple	6/10/2020	59
60	NPOC	280-136985-C-4	1.000	NPOC:1.590mg		Comple	6/10/2020	60
61	NPOC	280-136985-C-5	1.000	NPOC:0.8433m		Comple	6/10/2020	61
62	NPOC	280-136985-C-6	1.000	NPOC:0.3706m		Comple	6/10/2020	62
63	NPOC	ccv	1.000	NPOC:30.11mg		Comple	6/10/2020	63
64	NPOC	ccb	1.000	NPOC:0.01752		Comple	6/10/2020	64
65	NPOC	280-136848-N-1	1.000	NPOC:1.903mg		Comple	6/10/2020	65
66	NPOC	ms 280-136848-N-1	1.000	NPOC:31.25mg		Comple	6/10/2020	66
67	NPOC	msd 280-136848-N-1	1.000	NPOC:31.45mg		Comple	6/10/2020	67
68	NPOC	280-136795-J-2	1.000	NPOC:3.284mg		Comple	6/10/2020	68
69	NPOC	280-136887-O-1	1.000	NPOC:5.575mg		Comple	6/10/2020	69
70	NPOC	280-136939-C-1	1.000	NPOC:52.40mg		Comple	6/10/2020	70
71	NPOC	280-137124-D-1	1.000	NPOC:0.8789m		Comple	6/10/2020	71
72	NPOC	280-136982-G-1	1.000	NPOC:76.00mg		Comple	6/10/2020	72
73	NPOC	ccv	1.000	NPOC:28.91mg		Comple	6/10/2020	73
74	NPOC	ccb	1.000	NPOC:0.000mg		Aborted		74

Date of Creation 3:24:10 PM 5/4/2020
User sgb
System TOC-V cpm 3

Cal. Curve

Sample Name: CAL 110716
Sample ID: Untitled
Object ID: 0A-103108-04335027-1343C38228D8-0000
Cal. Curve: TOC3. 2020_05_04_14_18_22. cal
Status Completed
Comment:

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.2705	50uL	1	*****		5/4/2020 2:26:19 PM
2	0.2763	50uL	1	*****		5/4/2020 2:28:23 PM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 0.2734
SD Area 0.00410
CV Area 1.50%
Vial 86

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.725	50uL	1	*****		5/4/2020 2:37:00 PM
2	4.543	50uL	1	*****	E	5/4/2020 2:39:04 PM
3	4.761	50uL	1	*****		5/4/2020 2:41:08 PM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 4.743
SD Area 0.02546
CV Area 0.54%
Vial 87

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	18.23	50uL	1	*****		5/4/2020 2:49:40 PM
2	18.41	50uL	1	*****		5/4/2020 2:51:44 PM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 18.32
SD Area 0.1273
CV Area 0.69%
Vial 88

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	36.48	50uL	1	*****		5/4/2020 3:00:21 PM
2	36.93	50uL	1	*****		5/4/2020 3:02:25 PM

Acid Add. 0.000%
 Sp. Time 90.00sec
 Mean Area 36.70
 SD Area 0.3182
 CV Area 0.87%
 Vial 89

Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	92.28	50uL	1	*****		5/4/2020 3:11:09 PM
2	92.19	50uL	1	*****		5/4/2020 3:13:14 PM

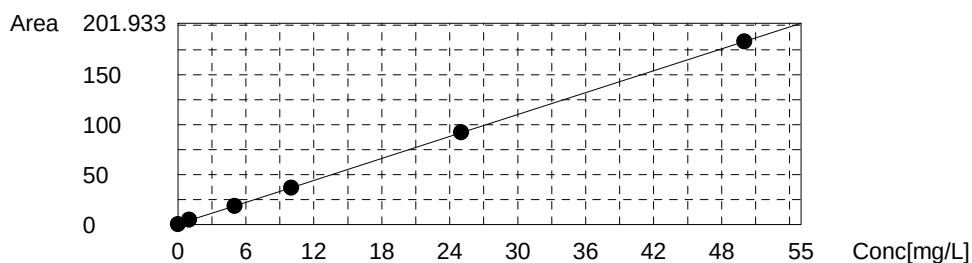
Acid Add. 0.000%
 Sp. Time 90.00sec
 Mean Area 92.23
 SD Area 0.06364
 CV Area 0.07%
 Vial 90

Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	183.5	50uL	1	*****		5/4/2020 3:21:57 PM
2	183.6	50uL	1	*****		5/4/2020 3:24:10 PM

Acid Add. 0.000%
 Sp. Time 90.00sec
 Mean Area 183.6
 SD Area 0.07071
 CV Area 0.04%
 Vial 91

Slope: 3.663
 Intercept 0.4112
 r^2 1.0000
 r 1.0000
 Zero Shift No



Instr. Information

System TOC-V cpn 3
Instrument Options TOC/ASI/
Catalyst Regular Sensitivity

Sample

Sample Name: icv
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

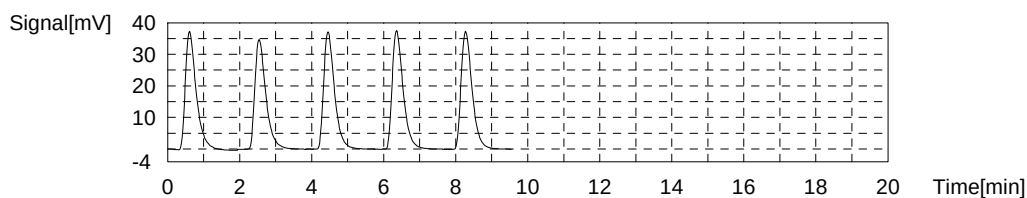
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:21.64mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	79.77	21.66mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 5:46:46 PM
2	74.57	20.24mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/9/2020 5:48:50 PM
3	78.27	21.25mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 5:50:54 PM
4	80.25	21.79mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 5:52:58 PM
5	80.52	21.87mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 5:55:02 PM

Mean Area 79.70
Mean Conc. 21.64mg/L



Sample

Sample Name: icb
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

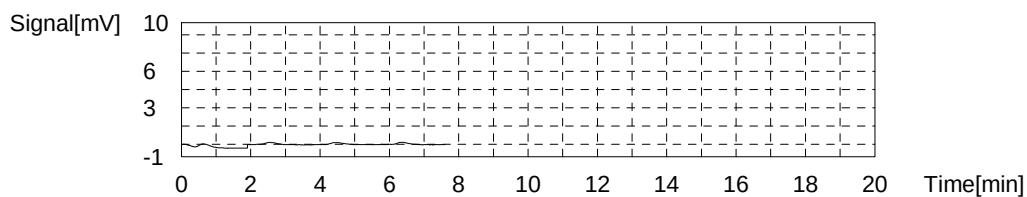
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.00252mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5076	0.02631mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 6:03:32 PM
2	0.3563	-0.01499mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 6:05:36 PM
3	0.3844	-0.00732mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 6:07:40 PM
4	0.3596	-0.01409mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 6:09:44 PM

Mean Area 0.4020
Mean Conc. -0.00252mg/L



Sample

Sample Name: LCS 280-498065/1-A
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

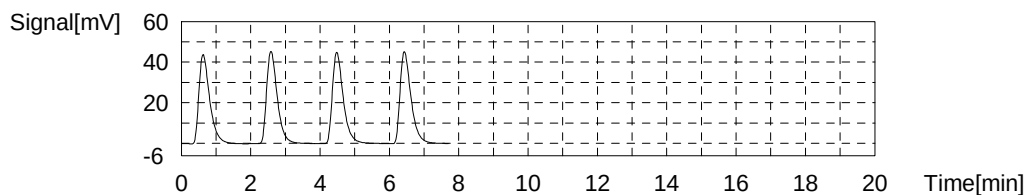
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.80mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	96.65	26.27mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 6:18:17 PM
2	97.94	26.62mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 6:20:21 PM
3	99.26	26.98mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 6:22:29 PM
4	100.5	27.32mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 6:24:33 PM

Mean Area 98.59
Mean Conc. 26.80mg/L



Sample

Sample Name: LCSD 280-498065/2-A
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

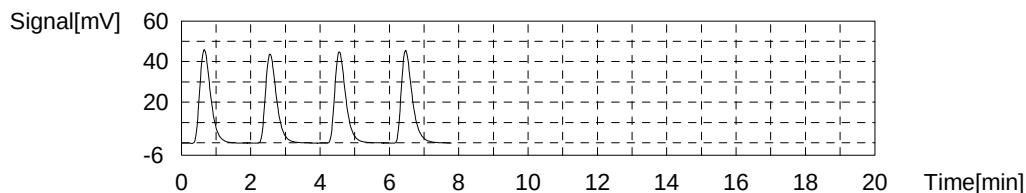
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.37mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	102.6	27.90mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 6:33:04 PM
2	98.25	26.71mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 6:35:14 PM
3	100.0	27.19mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 6:37:20 PM
4	101.8	27.68mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 6:39:27 PM

Mean Area 100.7
Mean Conc. 27.37mg/L



Sample

Sample Name: MB 280-498065/3-A
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

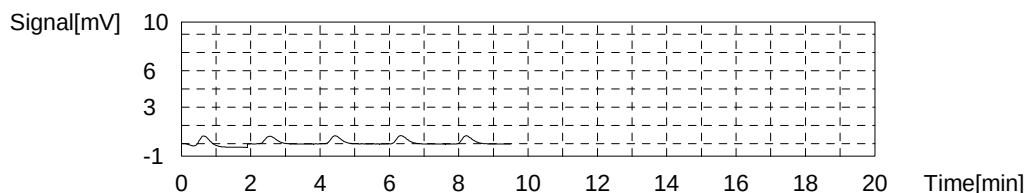
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2759mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.738	0.3622mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/9/2020 6:47:58 PM
2	1.392	0.2677mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 6:50:02 PM
3	1.356	0.2579mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 6:52:06 PM
4	1.514	0.3010mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 6:54:10 PM
5	1.426	0.2770mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 6:56:14 PM

Mean Area 1.422
Mean Conc. 0.2759mg/L



Sample

Sample Name: tic
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

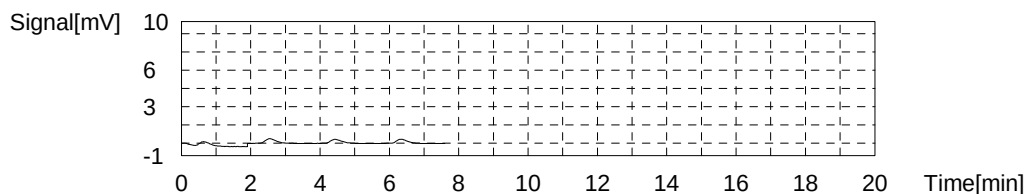
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.08253mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6321	0.06030mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 7:04:44 PM
2	0.7893	0.1032mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 7:06:48 PM
3	0.7069	0.08072mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 7:08:52 PM
4	0.7258	0.08588mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 7:10:56 PM

Mean Area 0.7135
Mean Conc. 0.08253mg/L



Sample

Sample Name: 280-136897-B-1-B
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

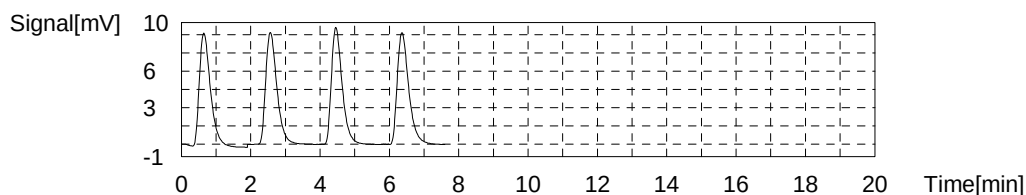
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.605mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	20.67	5.530mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 7:19:27 PM
2	20.74	5.549mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 7:21:31 PM
3	20.94	5.604mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 7:23:35 PM
4	21.42	5.735mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 7:25:39 PM

Mean Area 20.94
Mean Conc. 5.605mg/L



Sample

Sample Name: 280-136897-B-1-C MS
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

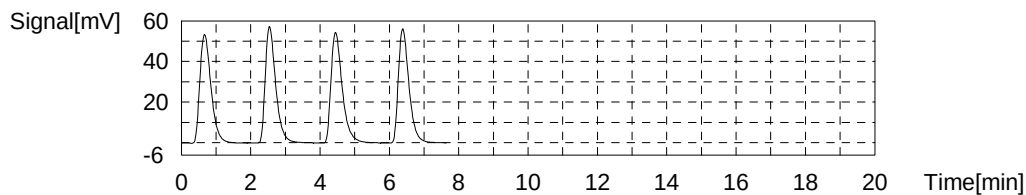
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:33.14mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	121.1	32.95mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 7:34:10 PM
2	121.0	32.92mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 7:36:14 PM
3	124.1	33.76mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 7:38:20 PM
4	121.0	32.92mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 7:40:24 PM

Mean Area 121.8
Mean Conc. 33.14mg/L



Sample

Sample Name: 280-136897-B-1-D MSD
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

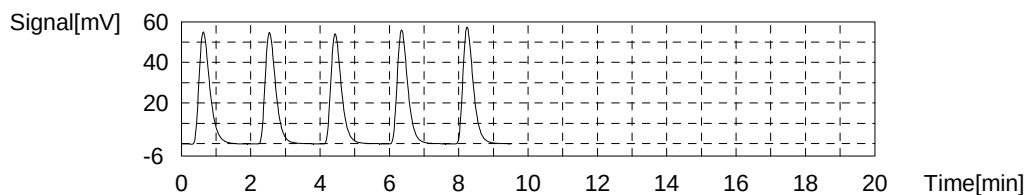
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:32.75mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	122.1	33.22mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 7:48:55 PM
2	117.4	31.94mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 7:50:59 PM
3	116.6	31.72mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/9/2020 7:53:03 PM
4	120.5	32.78mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 7:55:07 PM
5	121.5	33.05mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 7:57:11 PM

Mean Area 120.4
Mean Conc. 32.75mg/L



Sample

Sample Name: 280-136897-B-1-E DU
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

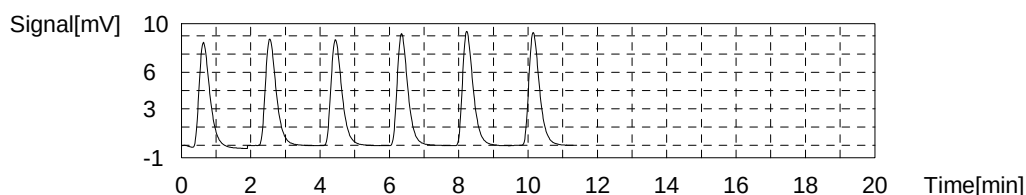
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.242mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.69	4.990mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/9/2020 8:05:41 PM
2	19.26	5.145mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 8:07:45 PM
3	19.36	5.173mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 8:09:49 PM
4	19.86	5.309mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 8:11:53 PM
5	20.24	5.413mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/9/2020 8:13:57 PM
6	19.98	5.342mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 8:16:01 PM

Mean Area 19.62
Mean Conc. 5.242mg/L



Sample

Sample Name: 280-136897-C-2-B
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

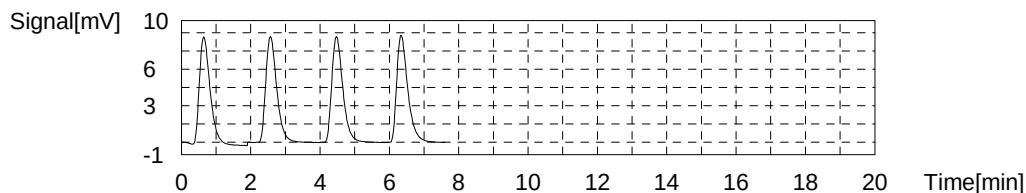
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.159mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.90	5.047mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 8:24:25 PM
2	19.20	5.129mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 8:26:29 PM
3	19.40	5.184mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 8:28:33 PM
4	19.74	5.276mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 8:30:37 PM

Mean Area 19.31
Mean Conc. 5.159mg/L



Sample

Sample Name: 280-136897-C-3-B
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

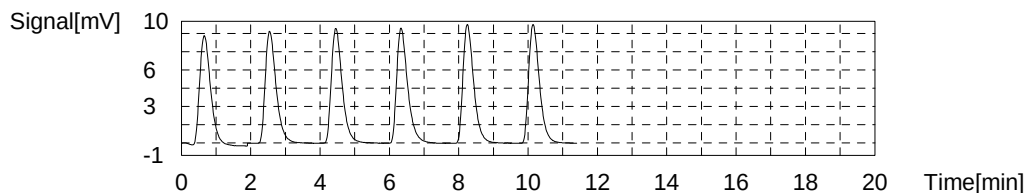
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.620mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	19.70	5.265mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/9/2020 8:39:08 PM
2	20.13	5.383mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/9/2020 8:41:12 PM
3	20.57	5.503mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 8:43:16 PM
4	21.08	5.642mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 8:45:20 PM
5	21.05	5.634mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 8:47:24 PM
6	21.29	5.699mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 8:49:28 PM

Mean Area 21.00
Mean Conc. 5.620mg/L



Sample

Sample Name: 280-136897-C-4-B
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

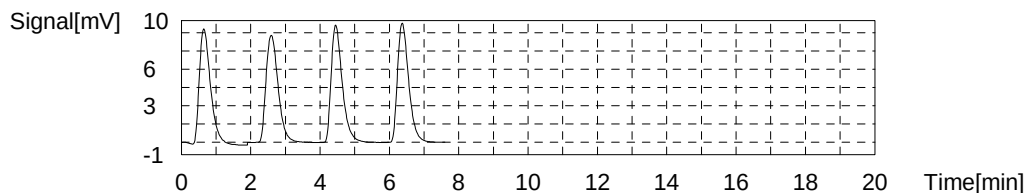
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.807mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	21.46	5.746mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 8:57:53 PM
2	21.44	5.740mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 8:59:57 PM
3	21.71	5.814mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 9:02:01 PM
4	22.12	5.926mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 9:04:05 PM

Mean Area 21.68
Mean Conc. 5.807mg/L



Sample

Sample Name: 280-137048-D-1-A
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

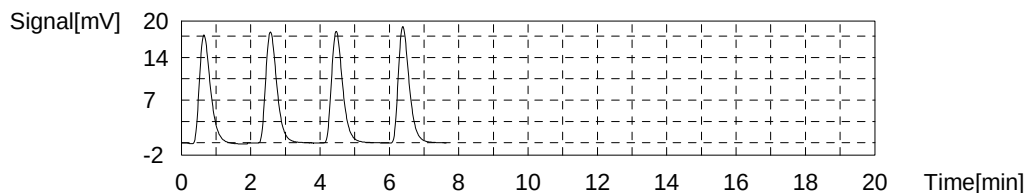
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:11.20mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	40.42	10.92mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 9:12:36 PM
2	41.34	11.17mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 9:14:40 PM
3	41.59	11.24mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 9:16:46 PM
4	42.42	11.47mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 9:18:50 PM

Mean Area 41.44
Mean Conc. 11.20mg/L



Sample

Sample Name: ccv
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

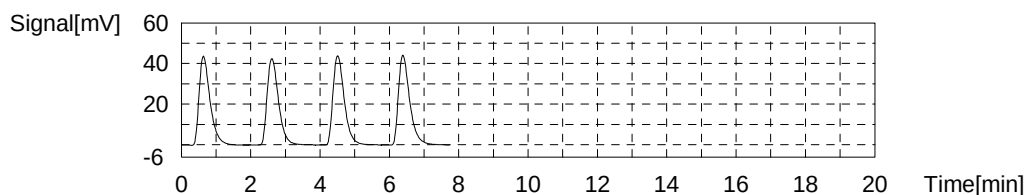
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.01mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	97.92	26.62mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 9:27:24 PM
2	97.67	26.55mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 9:29:28 PM
3	100.7	27.38mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 9:31:32 PM
4	101.1	27.49mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 9:33:41 PM

Mean Area 99.35
Mean Conc. 27.01mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

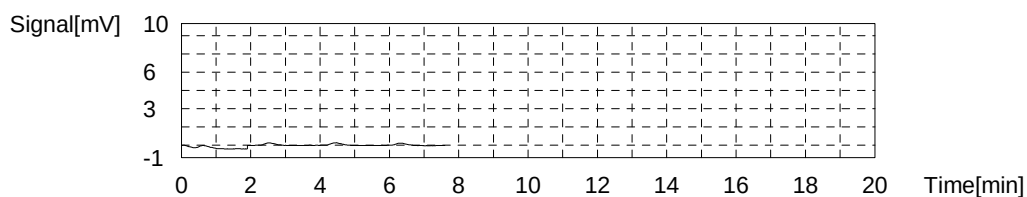
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.00603mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3664	-0.01223mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 9:42:12 PM
2	0.3976	-0.00371mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 9:44:16 PM
3	0.4128	0.00044mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 9:46:20 PM
4	0.3797	-0.00860mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 9:48:24 PM

Mean Area 0.3891
Mean Conc. -0.00603mg/L



Sample

Sample Name: 280-137048-D-2-A
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

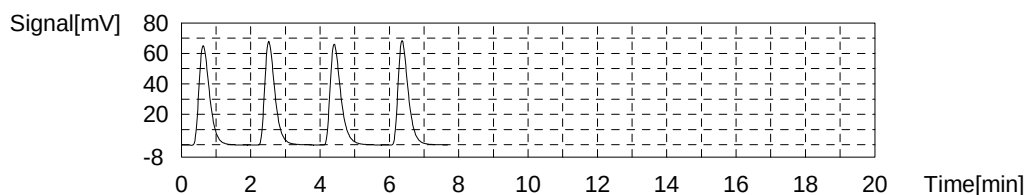
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	2.000	NPOC:77.08mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	140.7	76.59mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 9:56:55 PM
2	140.2	76.32mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 9:58:59 PM
3	143.5	78.12mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 10:01:06 PM
4	142.0	77.30mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 10:03:11 PM

Mean Area 141.6
Mean Conc. 77.08mg/L



Sample

Sample Name: 280-137084-D-1-A
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

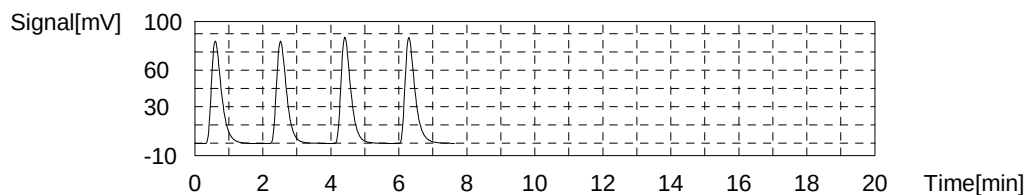
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:48.38mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	177.1	48.23mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 10:11:42 PM
2	174.7	47.58mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 10:13:46 PM
3	178.0	48.48mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 10:15:50 PM
4	180.7	49.22mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 10:17:56 PM

Mean Area 177.6
Mean Conc. 48.38mg/L



Sample

Sample Name: 280-137084-D-2-A
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

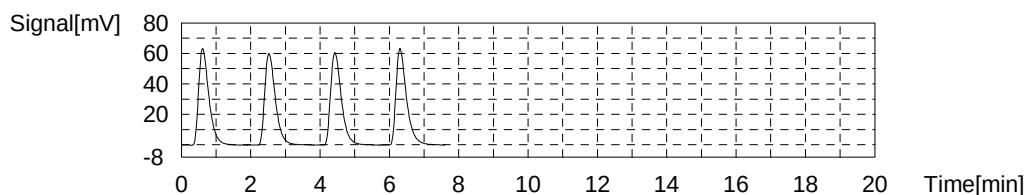
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:35.91mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	131.8	35.87mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 10:26:27 PM
2	129.0	35.10mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 10:28:31 PM
3	131.8	35.87mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 10:30:35 PM
4	135.2	36.79mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 10:32:39 PM

Mean Area 132.0
Mean Conc. 35.91mg/L



Sample

Sample Name: 280-137084-D-3-A
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

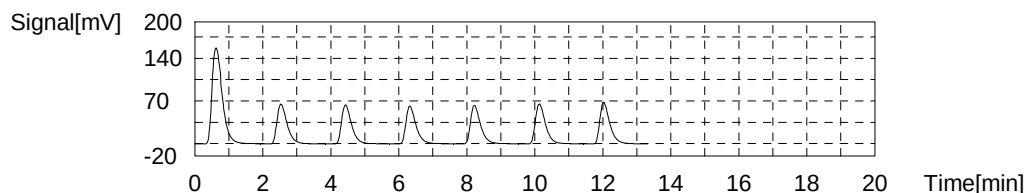
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	2.000	NPOC:165.5mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	332.7	181.4mg/L	50uL	1	R	TOC3.2020_05_04_14_18_22.cal	6/9/2020 10:41:11 PM
2	136.6	169.3mg/L	22uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 10:43:15 PM
3	131.1	162.4mg/L	22uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 10:45:19 PM
4	128.2	158.8mg/L	22uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/9/2020 10:47:23 PM
5	130.5	161.7mg/L	22uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 10:49:26 PM
6	136.1	168.7mg/L	22uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 10:51:30 PM
7	141.0	174.7mg/L	22uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/9/2020 10:55:54 PM

Mean Area 133.6
Mean Conc. 165.5mg/L



Sample

Sample Name: 280-137084-D-4-A
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

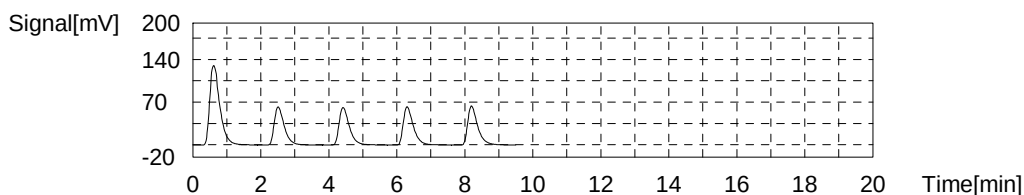
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:68.16mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	272.0	74.14mg/L	50uL	1	R	TOC3.2020_05_04_14_18_22.cal	6/9/2020 11:04:19 PM
2	128.8	67.50mg/L	26uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 11:06:23 PM
3	129.4	67.82mg/L	26uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 11:08:27 PM
4	130.3	68.29mg/L	26uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 11:10:31 PM
5	131.7	69.02mg/L	26uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 11:12:34 PM

Mean Area 130.1
Mean Conc. 68.16mg/L



Sample

Sample Name: 280-137084-D-4-B MS
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

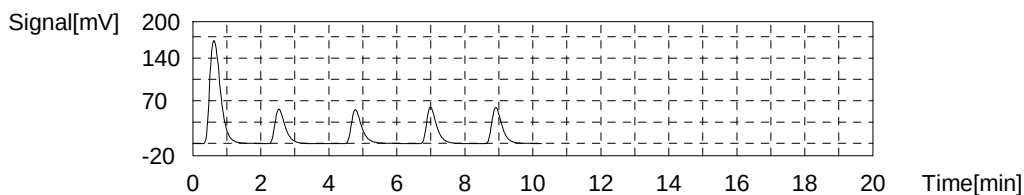
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:88.01mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	376.5	102.7mg/L	50uL	1	R	TOC3.2020_05_04_14_18_22.cal	6/9/2020 11:21:06 PM
2	120.7	86.59mg/L	19uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 11:23:31 PM
3	120.8	86.67mg/L	19uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 11:25:54 PM
4	123.8	88.82mg/L	19uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 11:27:58 PM
5	125.4	89.97mg/L	19uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 11:30:06 PM

Mean Area 122.7
Mean Conc. 88.01mg/L



Sample

Sample Name: 280-137084-D-4-C MSD
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

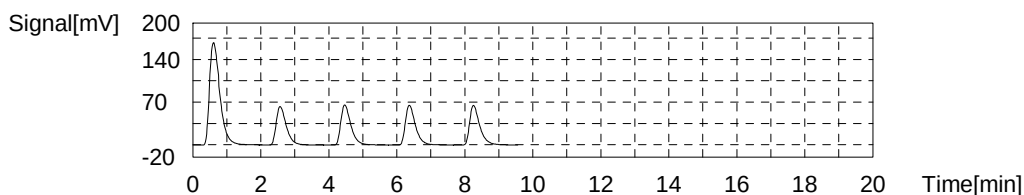
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:91.66mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	359.8	98.11mg/L	50uL	1	R	TOC3.2020_05_04_14_18_22.cal	6/9/2020 11:38:39 PM
2	131.3	89.49mg/L	20uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 11:40:43 PM
3	136.3	92.91mg/L	20uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 11:42:47 PM
4	134.7	91.81mg/L	20uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 11:44:51 PM
5	135.6	92.43mg/L	20uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 11:46:54 PM

Mean Area 134.5
Mean Conc. 91.66mg/L



Sample

Sample Name: 280-137084-D-5-A
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

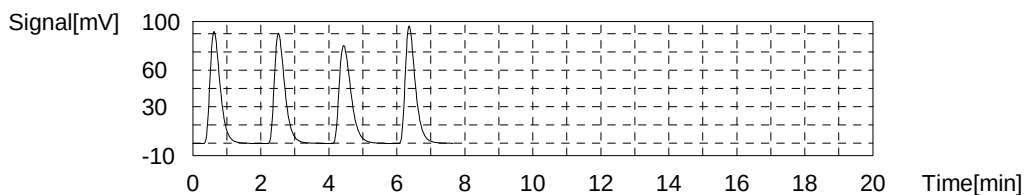
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	2.000	NPOC:107.5mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	193.7	105.5mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 11:55:25 PM
2	195.6	106.6mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 11:57:29 PM
3	197.4	107.5mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/9/2020 11:59:36 PM
4	202.7	110.4mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:01:40 AM

Mean Area 197.4
Mean Conc. 107.5mg/L



Sample

Sample Name: lcs
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

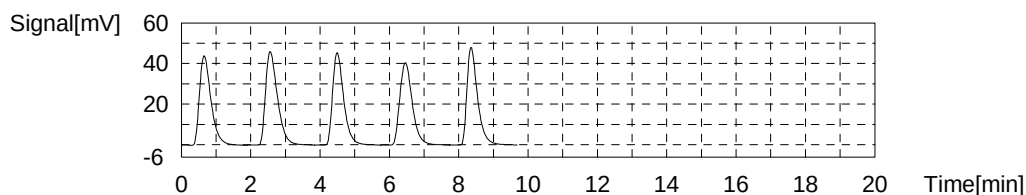
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.85mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	103.0	28.00mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:10:11 AM
2	110.9	30.16mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:12:17 AM
3	101.8	27.68mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:14:21 AM
4	102.2	27.79mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:16:31 AM
5	102.7	27.92mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:18:38 AM

Mean Area 102.4
Mean Conc. 27.85mg/L



Sample

Sample Name: lcsd
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

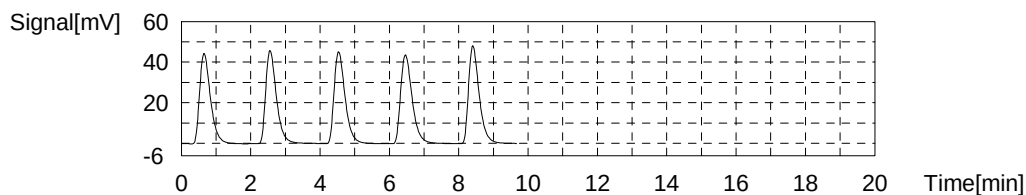
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.59mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	97.76	26.57mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:27:09 AM
2	99.17	26.96mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:29:17 AM
3	100.9	27.43mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:31:21 AM
4	102.4	27.84mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:33:30 AM
5	103.5	28.14mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:35:34 AM

Mean Area 101.5
Mean Conc. 27.59mg/L



Sample

Sample Name: ccv
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

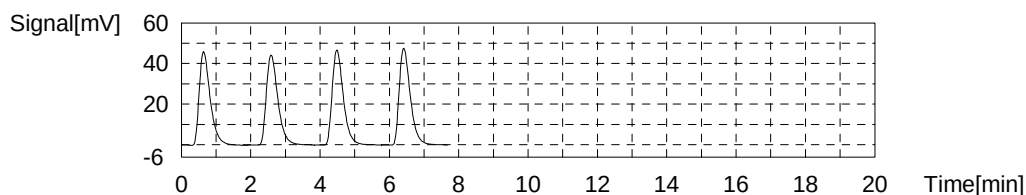
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.46mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	102.8	27.95mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:44:05 AM
2	103.4	28.11mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:46:09 AM
3	105.5	28.69mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:48:16 AM
4	107.0	29.10mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:50:20 AM

Mean Area 104.7
Mean Conc. 28.46mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

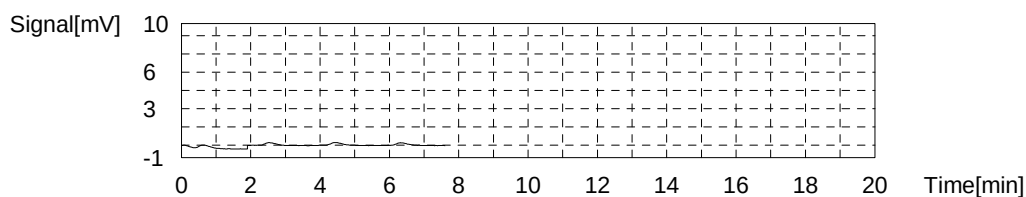
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.01169mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4703	0.01613mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:58:51 AM
2	0.4394	0.00770mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:00:55 AM
3	0.4739	0.01712mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:02:59 AM
4	0.4325	0.00581mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:05:03 AM

Mean Area 0.4540
Mean Conc. 0.01169mg/L



Sample

Sample Name: mb
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

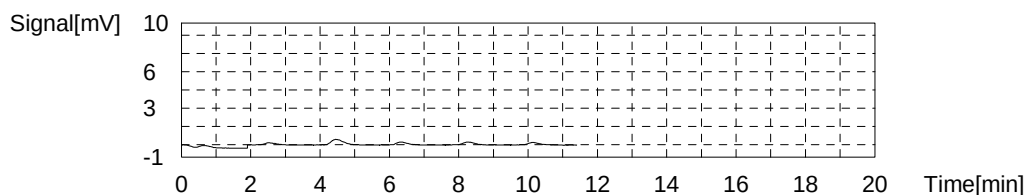
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.00952mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3179	-0.02547mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:13:34 AM
2	0.3121	-0.02705mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:15:38 AM
3	1.094	0.1864mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:17:42 AM
4	0.4891	0.02126mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:19:46 AM
5	0.4900	0.02151mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:21:50 AM
6	0.3862	-0.00682mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:23:54 AM

Mean Area 0.3763
Mean Conc. -0.00952mg/L



Sample

Sample Name: tic
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

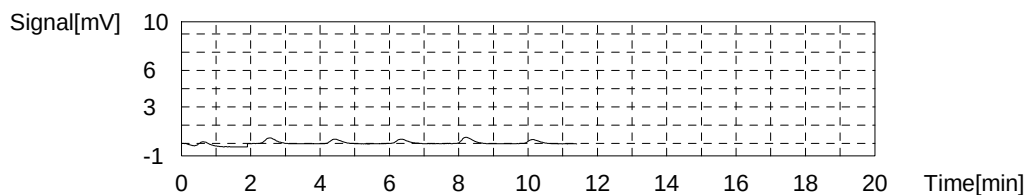
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.08779mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6605	0.06805mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:32:18 AM
2	0.9969	0.1599mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:34:22 AM
3	0.7928	0.1042mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:36:26 AM
4	0.7448	0.09107mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:38:30 AM
5	1.126	0.1951mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:40:34 AM
6	0.7331	0.08787mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:42:38 AM

Mean Area 0.7328
Mean Conc. 0.08779mg/L



Sample

Sample Name: 280-136849-B-2
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

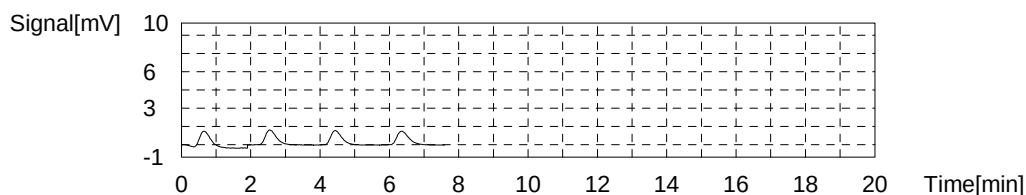
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6231mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.788	0.6488mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:51:03 AM
2	2.659	0.6136mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:53:07 AM
3	2.634	0.6068mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:55:11 AM
4	2.694	0.6232mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:57:15 AM

Mean Area 2.694
Mean Conc. 0.6231mg/L



Sample

Sample Name: 280-136849-B-3
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

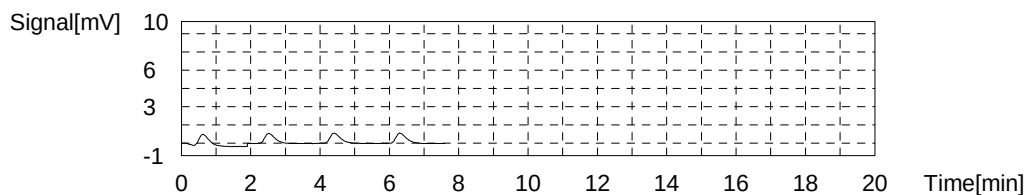
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3564mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.759	0.3679mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 2:05:47 AM
2	1.675	0.3450mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 2:07:51 AM
3	1.706	0.3535mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 2:09:55 AM
4	1.727	0.3592mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 2:11:59 AM

Mean Area 1.717
Mean Conc. 0.3564mg/L



Sample

Sample Name: 280-136849-B-4
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

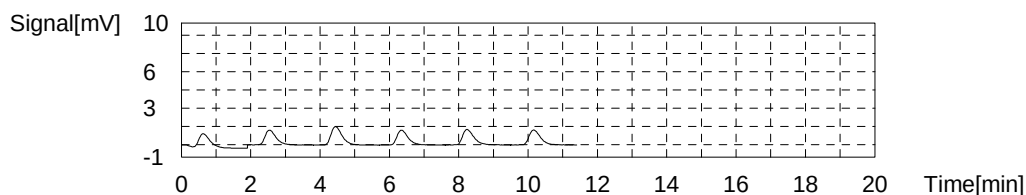
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6274mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.325	0.5224mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 2:20:31 AM
2	2.630	0.6057mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 2:22:35 AM
3	3.358	0.8044mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 2:24:39 AM
4	2.657	0.6131mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 2:26:43 AM
5	2.821	0.6578mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 2:28:47 AM
6	2.730	0.6330mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 2:30:51 AM

Mean Area 2.710
Mean Conc. 0.6274mg/L



Sample

Sample Name: 280-137328-B-1
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

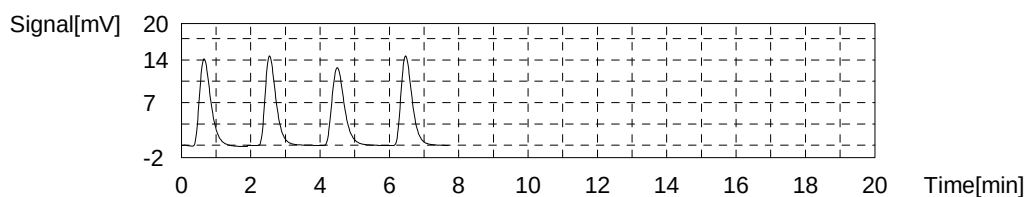
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.880mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	33.45	9.019mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 2:39:16 AM
2	32.35	8.719mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 2:41:20 AM
3	32.56	8.776mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 2:43:30 AM
4	33.40	9.005mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 2:45:34 AM

Mean Area 32.94
Mean Conc. 8.880mg/L



Sample

Sample Name: ms 280-137328-B-1
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

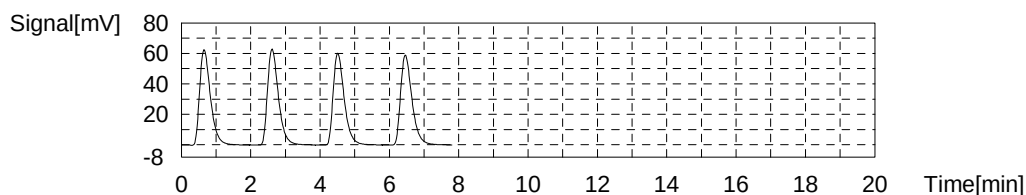
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:37.30mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	137.8	37.50mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 2:54:09 AM
2	139.1	37.86mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 2:56:13 AM
3	134.9	36.71mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 2:58:19 AM
4	136.4	37.12mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 3:00:30 AM

Mean Area 137.0
Mean Conc. 37.30mg/L



Sample

Sample Name: msd 280-137328-B-1
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

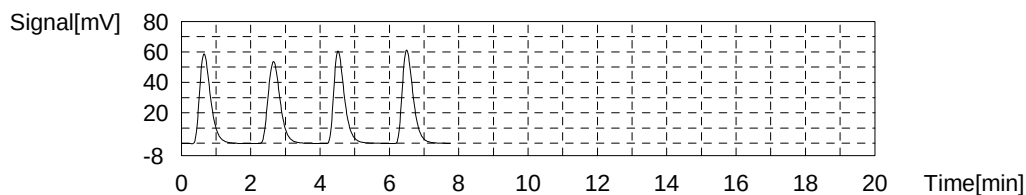
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:36.18mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	132.0	35.92mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 3:09:04 AM
2	131.6	35.81mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 3:11:11 AM
3	132.1	35.95mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 3:13:19 AM
4	136.1	37.04mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 3:15:23 AM

Mean Area 133.0
Mean Conc. 36.18mg/L



Sample

Sample Name: 280-137328-B-2
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

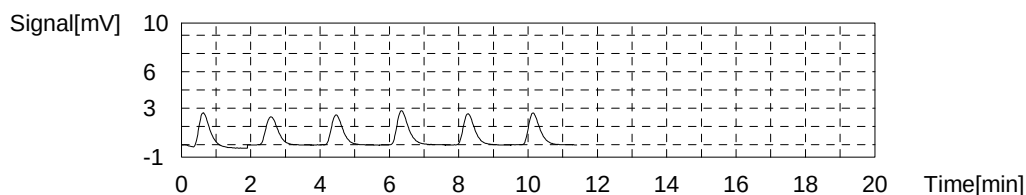
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.456mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.282	1.603mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 3:23:55 AM
2	5.562	1.406mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 3:25:59 AM
3	5.642	1.428mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 3:28:03 AM
4	6.510	1.665mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 3:30:07 AM
5	5.850	1.485mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 3:32:11 AM
6	5.924	1.505mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 3:34:15 AM

Mean Area 5.745
Mean Conc. 1.456mg/L



Sample

Sample Name: 280-137328-B-3
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

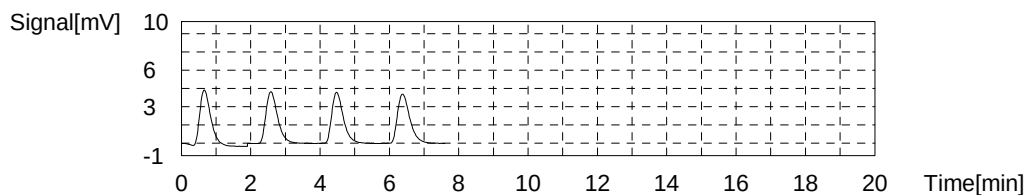
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.611mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.12	2.650mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 3:42:40 AM
2	10.03	2.626mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 3:44:44 AM
3	9.711	2.539mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 3:46:48 AM
4	10.04	2.628mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 3:48:52 AM

Mean Area 9.975
Mean Conc. 2.611mg/L



Sample

Sample Name: ccv
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

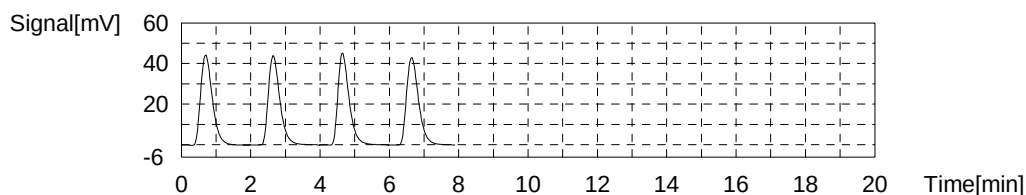
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.20mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	105.8	28.77mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 3:57:28 AM
2	102.6	27.90mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 3:59:39 AM
3	101.8	27.68mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 4:01:47 AM
4	104.7	28.47mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 4:03:53 AM

Mean Area 103.7
Mean Conc. 28.20mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

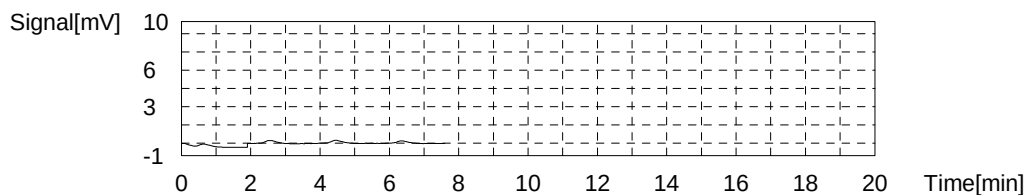
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.00695mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3493	-0.01690mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 4:12:25 AM
2	0.5075	0.02629mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 4:14:29 AM
3	0.4723	0.01668mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 4:16:33 AM
4	0.4176	0.00175mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 4:18:37 AM

Mean Area 0.4367
Mean Conc. 0.00695mg/L



Sample

Sample Name: 280-137328-B-4
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

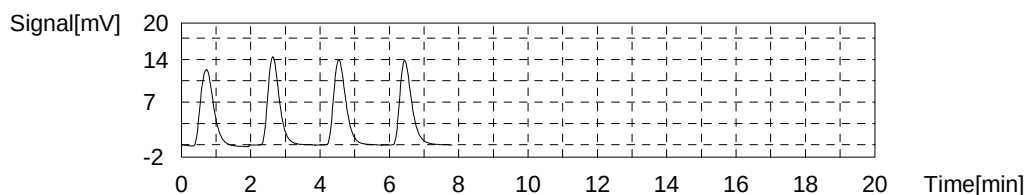
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.124mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	33.48	9.027mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 4:27:12 AM
2	33.73	9.095mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 4:29:16 AM
3	34.49	9.303mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 4:31:21 AM
4	33.64	9.071mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 4:33:33 AM

Mean Area 33.84
Mean Conc. 9.124mg/L



Sample

Sample Name: 280-137328-B-6
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

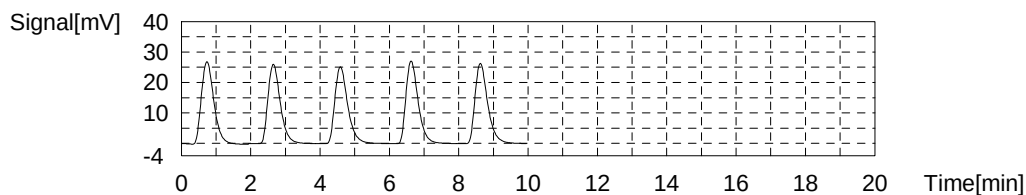
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	20.00	NPOC:364.7mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	68.46	371.5mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 4:42:07 AM
2	64.88	352.0mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 4:44:13 AM
3	65.61	356.0mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 4:46:26 AM
4	67.16	364.4mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 4:48:36 AM
5	67.65	367.1mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 4:50:48 AM

Mean Area 67.22
Mean Conc. 364.7mg/L



Sample

Sample Name: 280-136897-B-2
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

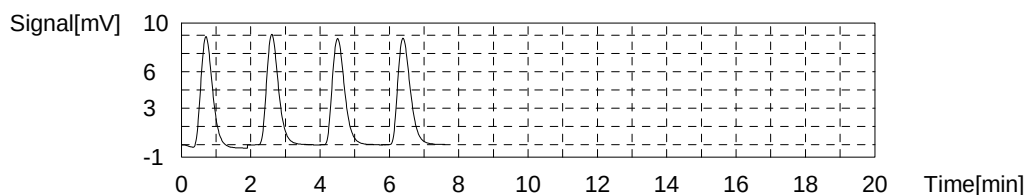
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.831mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	21.56	5.773mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 4:59:19 AM
2	21.66	5.800mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 5:01:23 AM
3	21.80	5.839mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 5:03:27 AM
4	22.07	5.912mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 5:05:31 AM

Mean Area 21.77
Mean Conc. 5.831mg/L



Sample

Sample Name: 280-136897-B-3
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

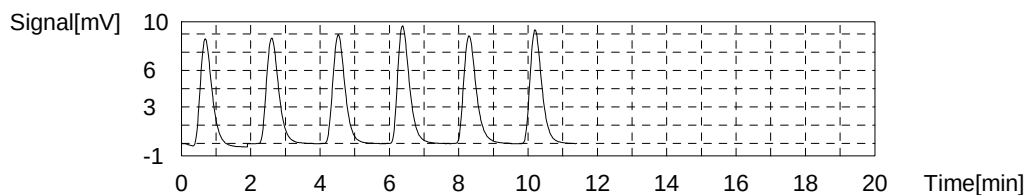
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.009mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	20.88	5.588mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 5:14:03 AM
2	21.34	5.713mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 5:16:07 AM
3	21.92	5.871mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 5:18:11 AM
4	23.05	6.180mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 5:20:15 AM
5	22.33	5.983mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 5:22:19 AM
6	22.39	6.000mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 5:24:23 AM

Mean Area 22.42
Mean Conc. 6.009mg/L



Sample

Sample Name: 280-136897-B-4
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

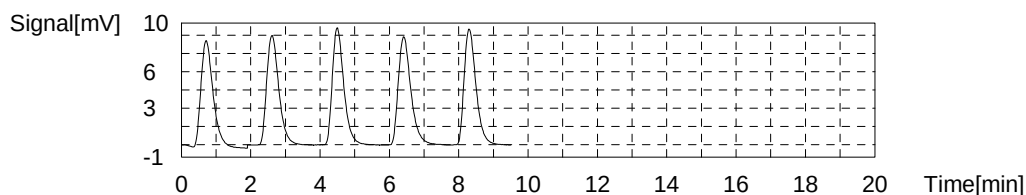
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.998mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	21.45	5.743mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 5:32:48 AM
2	21.92	5.871mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 5:34:52 AM
3	22.27	5.967mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 5:36:56 AM
4	22.60	6.057mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 5:39:00 AM
5	22.75	6.098mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 5:41:04 AM

Mean Area 22.38
Mean Conc. 5.998mg/L



Sample

Sample Name: lcs
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

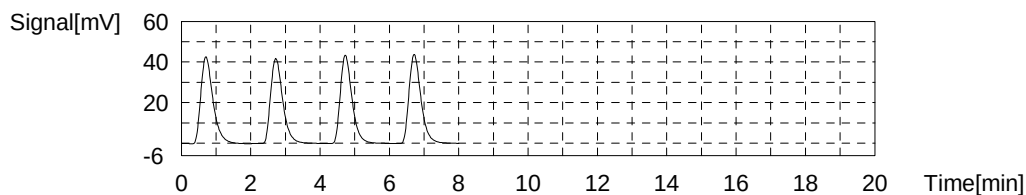
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.39mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	106.0	28.82mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 5:49:42 AM
2	102.7	27.92mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 5:51:52 AM
3	103.1	28.03mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 5:54:01 AM
4	105.8	28.77mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 5:56:11 AM

Mean Area 104.4
Mean Conc. 28.39mg/L



Sample

Sample Name: mb
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

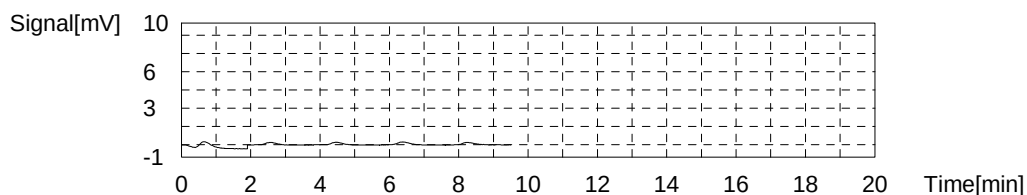
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.00863mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.032	0.1695mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 6:04:43 AM
2	0.3960	-0.00415mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 6:06:47 AM
3	0.4449	0.00920mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 6:08:51 AM
4	0.5081	0.02645mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 6:10:55 AM
5	0.4222	0.00300mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 6:12:59 AM

Mean Area 0.4428
Mean Conc. 0.00863mg/L



Sample

Sample Name: tic
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

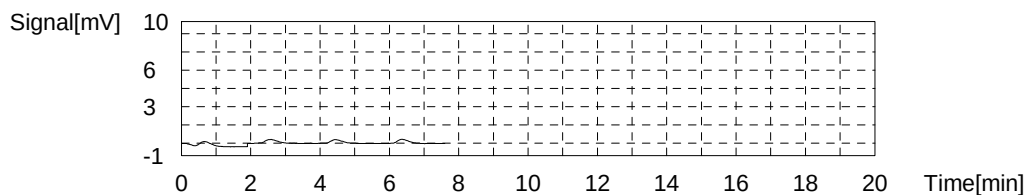
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.07473mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7085	0.08116mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 6:21:30 AM
2	0.6814	0.07376mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 6:23:34 AM
3	0.6494	0.06502mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 6:25:38 AM
4	0.7005	0.07897mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 6:27:42 AM

Mean Area 0.6849
Mean Conc. 0.07473mg/L



Sample

Sample Name: 280-137163-D-4
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

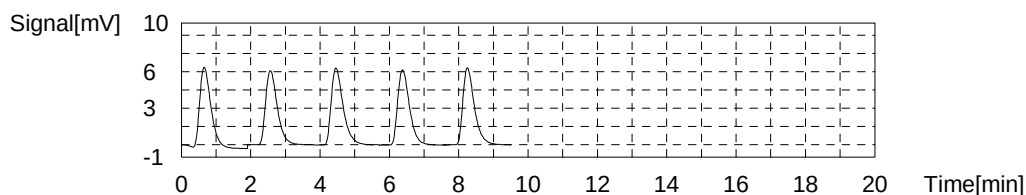
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.884mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.80	3.928mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 6:36:14 AM
2	14.37	3.810mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 6:38:18 AM
3	15.27	4.056mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 6:40:22 AM
4	14.71	3.903mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 6:42:26 AM
5	14.68	3.895mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 6:44:30 AM

Mean Area 14.64
Mean Conc. 3.884mg/L



Sample

Sample Name: ms 280-137163-D-4
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

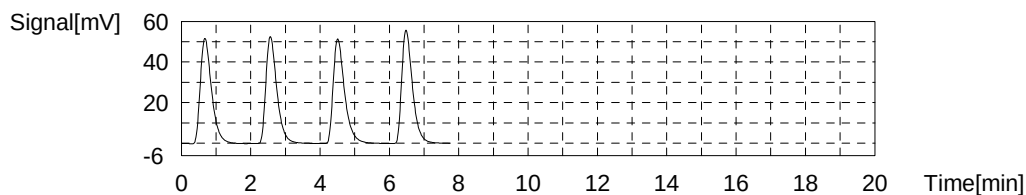
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:32.43mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	118.8	32.32mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 6:53:01 AM
2	117.1	31.85mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 6:55:08 AM
3	119.5	32.51mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 6:57:17 AM
4	121.4	33.03mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 6:59:21 AM

Mean Area 119.2
Mean Conc. 32.43mg/L



Sample

Sample Name: ccv
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

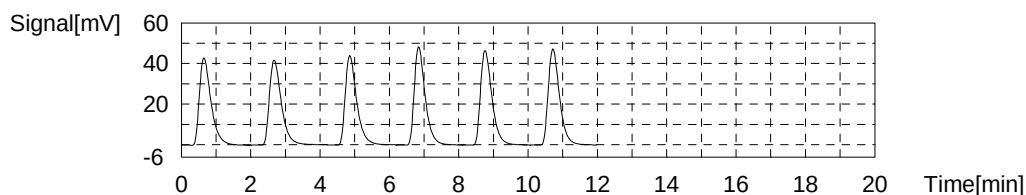
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.93mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	101.0	27.46mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 7:08:00 AM
2	101.1	27.49mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 7:10:21 AM
3	101.9	27.70mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 7:12:30 AM
4	106.9	29.07mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 7:14:35 AM
5	107.6	29.26mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 7:16:42 AM
6	108.3	29.45mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 7:18:48 AM

Mean Area 102.7
Mean Conc. 27.93mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

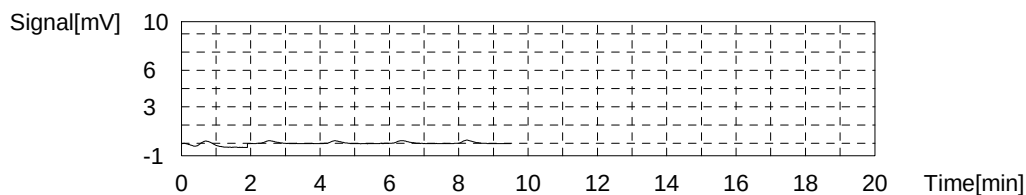
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.01993mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.035	0.1703mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 7:27:13 AM
2	0.4690	0.01578mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 7:29:17 AM
3	0.4417	0.00833mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 7:31:21 AM
4	0.4851	0.02017mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 7:33:25 AM
5	0.5410	0.03543mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 7:35:29 AM

Mean Area 0.4842
Mean Conc. 0.01993mg/L



Sample

Sample Name: msd 280-137163-D-4
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

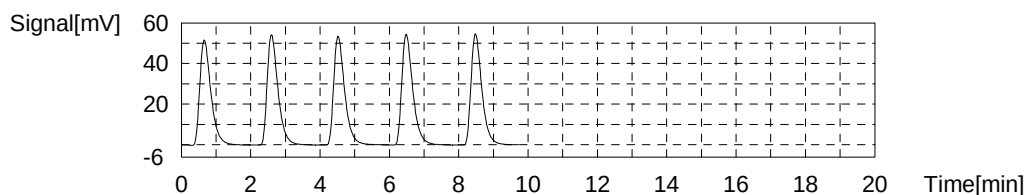
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:32.22mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	116.2	31.61mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 7:44:03 AM
2	118.8	32.32mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 7:46:08 AM
3	118.8	32.32mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 7:48:15 AM
4	122.3	33.27mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 7:50:25 AM
5	120.0	32.65mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 7:52:29 AM

Mean Area 118.5
Mean Conc. 32.22mg/L



Sample

Sample Name: 280-137163-D-1
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

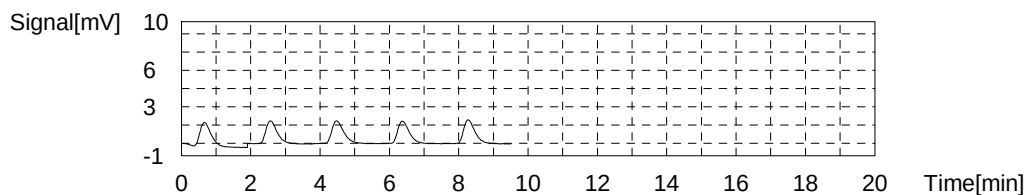
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.056mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.222	1.040mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 8:01:00 AM
2	4.249	1.048mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 8:03:04 AM
3	4.433	1.098mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 8:05:08 AM
4	4.225	1.041mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 8:07:12 AM
5	4.419	1.094mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 8:09:16 AM

Mean Area 4.279
Mean Conc. 1.056mg/L



Sample

Sample Name: 280-137163-D-2
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

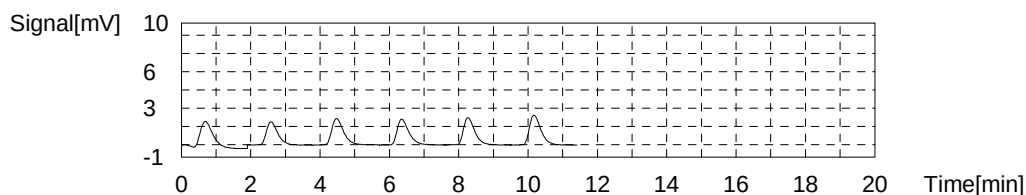
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.275mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.286	1.331mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 8:17:47 AM
2	4.269	1.053mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 8:19:51 AM
3	5.096	1.279mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 8:21:55 AM
4	4.997	1.252mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 8:23:59 AM
5	4.950	1.239mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 8:26:03 AM
6	5.577	1.410mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 8:28:07 AM

Mean Area 5.082
Mean Conc. 1.275mg/L



Sample

Sample Name: 280-137163-D-3
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

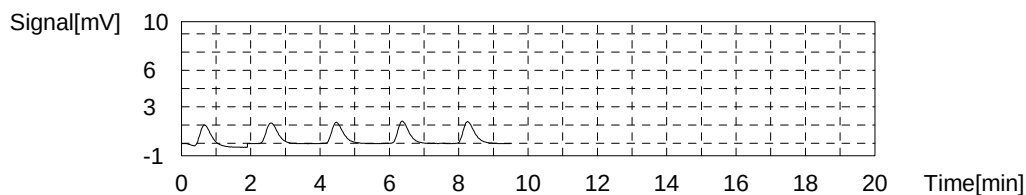
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.9836mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.767	0.9161mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 8:36:33 AM
2	3.909	0.9548mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 8:38:37 AM
3	4.031	0.9881mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 8:40:41 AM
4	4.009	0.9821mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 8:42:45 AM
5	4.108	1.009mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 8:44:49 AM

Mean Area 4.014
Mean Conc. 0.9836mg/L



Sample

Sample Name: 280-136985-C-1
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

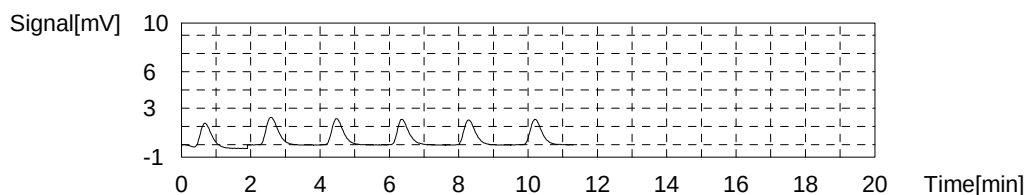
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.204mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.341	1.073mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 8:53:21 AM
2	5.460	1.378mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 8:55:25 AM
3	4.962	1.242mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 8:57:29 AM
4	4.799	1.198mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 8:59:33 AM
5	4.727	1.178mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 9:01:37 AM
6	4.800	1.198mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 9:03:41 AM

Mean Area 4.822
Mean Conc. 1.204mg/L



Sample

Sample Name: 280-136985-C-2
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

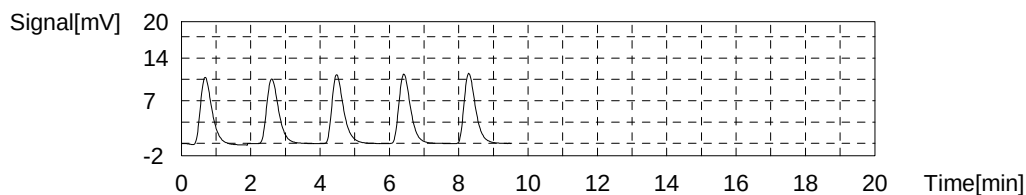
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.153mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	25.90	6.958mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 9:12:07 AM
2	25.67	6.895mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 9:14:11 AM
3	26.84	7.215mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 9:16:15 AM
4	26.87	7.223mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 9:18:19 AM
5	26.85	7.217mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 9:20:23 AM

Mean Area 26.62
Mean Conc. 7.153mg/L



Sample

Sample Name: 280-136985-C-3
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

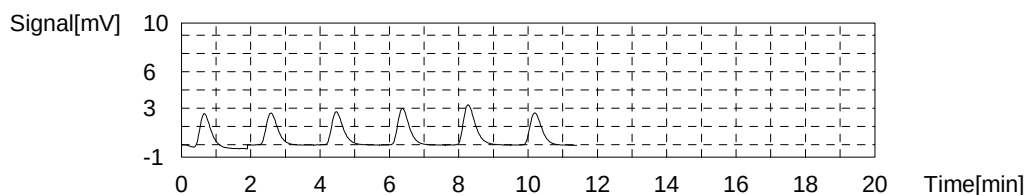
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.569mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.050	1.539mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 9:28:55 AM
2	6.029	1.534mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 9:30:59 AM
3	6.289	1.605mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 9:33:03 AM
4	6.905	1.773mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 9:35:07 AM
5	7.923	2.051mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 9:37:11 AM
6	6.274	1.600mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 9:39:15 AM

Mean Area 6.161
Mean Conc. 1.569mg/L



Sample

Sample Name: 280-136985-C-4
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

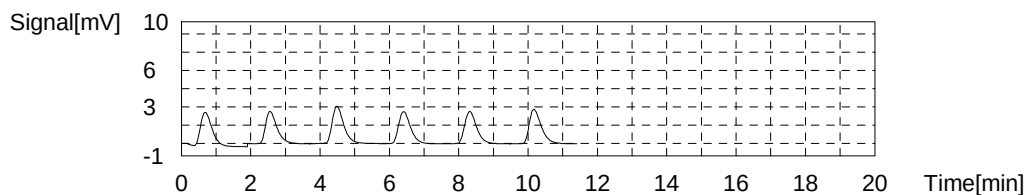
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.590mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.298	1.607mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 9:47:41 AM
2	6.026	1.533mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 9:49:45 AM
3	7.019	1.804mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 9:51:49 AM
4	6.295	1.606mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 9:53:53 AM
5	6.326	1.615mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 9:55:57 AM
6	6.827	1.751mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 9:58:01 AM

Mean Area 6.236
Mean Conc. 1.590mg/L



Sample

Sample Name: 280-136985-C-5
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

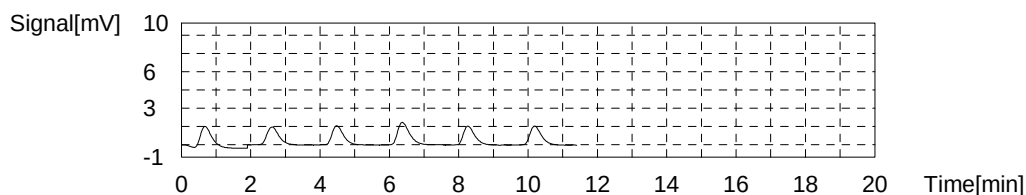
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8433mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.860	0.9414mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 10:06:27 AM
2	3.419	0.8211mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 10:08:31 AM
3	3.522	0.8492mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 10:10:35 AM
4	4.396	1.088mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 10:12:39 AM
5	3.510	0.8459mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 10:14:43 AM
6	3.551	0.8571mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 10:16:46 AM

Mean Area 3.501
Mean Conc. 0.8433mg/L



Sample

Sample Name: 280-136985-C-6
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

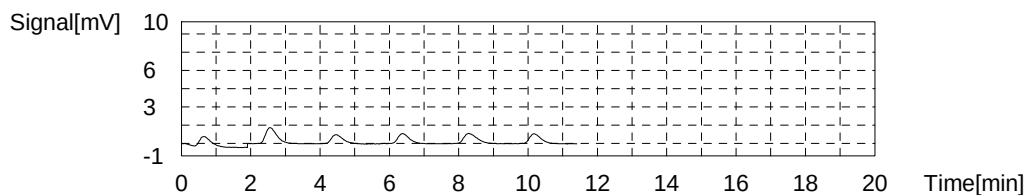
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3706mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.684	0.3474mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 10:25:13 AM
2	2.900	0.6794mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 10:27:17 AM
3	1.721	0.3575mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 10:29:21 AM
4	1.848	0.3922mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 10:31:25 AM
5	2.094	0.4594mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 10:33:29 AM
6	1.822	0.3851mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 10:35:33 AM

Mean Area 1.769
Mean Conc. 0.3706mg/L



Sample

Sample Name: ccv
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

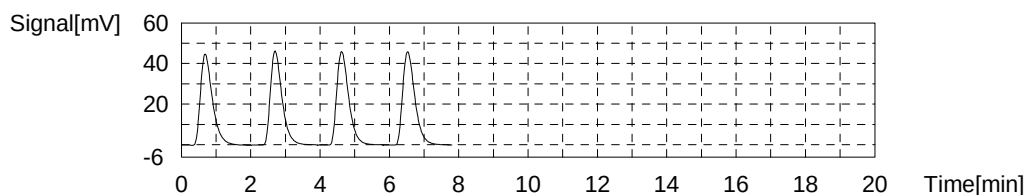
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:30.11mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	109.6	29.81mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 10:44:06 AM
2	108.8	29.59mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 10:46:11 AM
3	111.2	30.24mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 10:48:15 AM
4	113.2	30.79mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 10:50:23 AM

Mean Area 110.7
Mean Conc. 30.11mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

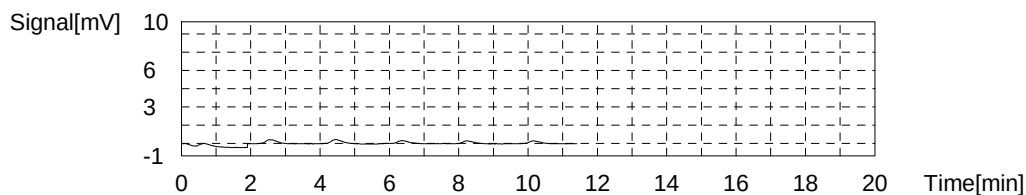
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.01752mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4578	0.01272mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 10:58:56 AM
2	0.6928	0.07687mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 11:01:00 AM
3	0.7314	0.08741mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 11:03:04 AM
4	0.4875	0.02083mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 11:05:08 AM
5	0.4917	0.02197mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 11:07:12 AM
6	0.4645	0.01455mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 11:09:16 AM

Mean Area 0.4754
Mean Conc. 0.01752mg/L



Sample

Sample Name: 280-136848-N-1
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

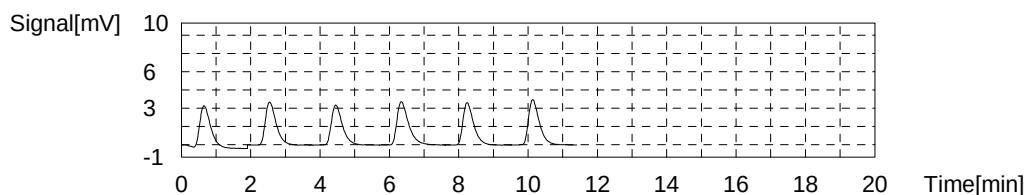
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.903mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.204	1.854mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 11:17:42 AM
2	7.632	1.971mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 11:19:46 AM
3	7.214	1.857mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 11:21:50 AM
4	8.317	2.158mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 11:23:54 AM
5	7.473	1.928mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 11:25:58 AM
6	8.013	2.075mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 11:28:02 AM

Mean Area 7.381
Mean Conc. 1.903mg/L



Sample

Sample Name: ms 280-136848-N-1
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

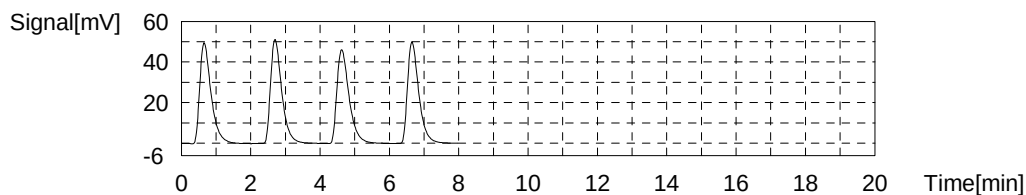
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:31.25mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	114.5	31.14mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 11:36:36 AM
2	116.6	31.72mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 11:38:41 AM
3	114.2	31.06mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 11:40:53 AM
4	114.3	31.09mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 11:43:02 AM

Mean Area 114.9
Mean Conc. 31.25mg/L



Sample

Sample Name: msd 280-136848-N-1
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

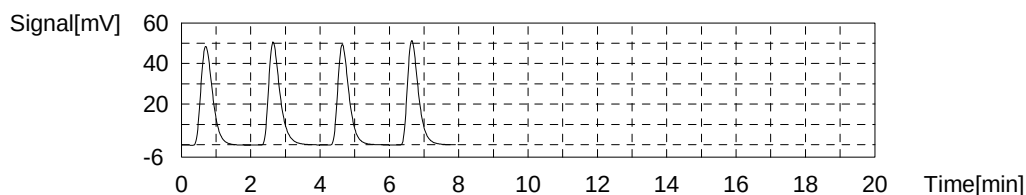
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:31.45mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	116.7	31.74mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 11:51:40 AM
2	117.6	31.99mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 11:53:49 AM
3	113.0	30.73mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 11:56:00 AM
4	115.2	31.33mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 11:58:05 AM

Mean Area 115.6
Mean Conc. 31.45mg/L



Sample

Sample Name: 280-136795-J-2
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

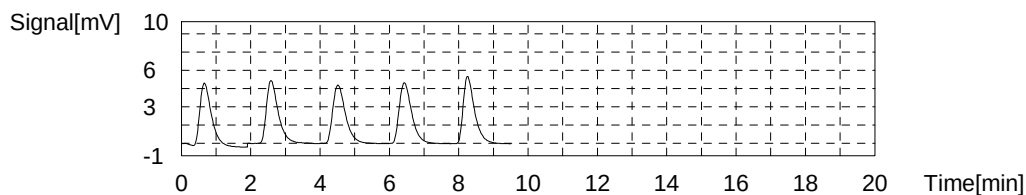
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.284mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.80	3.109mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:06:38 PM
2	12.20	3.218mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:08:42 PM
3	12.28	3.240mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:10:46 PM
4	12.56	3.316mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:12:50 PM
5	12.72	3.360mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:14:54 PM

Mean Area 12.44
Mean Conc. 3.284mg/L



Sample

Sample Name: 280-136887-O-1
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

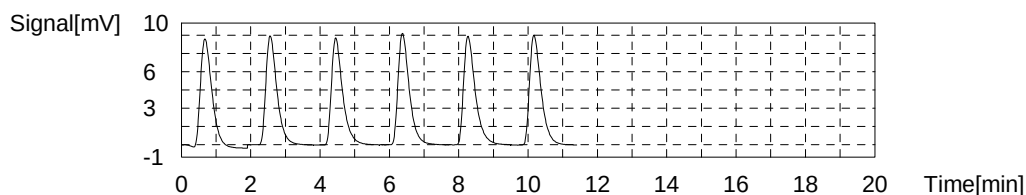
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.575mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	20.54	5.495mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:23:26 PM
2	20.01	5.350mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:25:30 PM
3	19.87	5.312mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:27:34 PM
4	20.76	5.555mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:29:38 PM
5	21.05	5.634mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:31:42 PM
6	20.98	5.615mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:33:46 PM

Mean Area 20.83
Mean Conc. 5.575mg/L



Sample

Sample Name: 280-136939-C-1
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

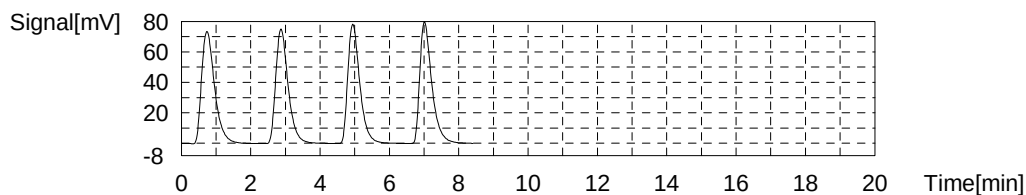
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:52.40mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	195.3	53.20mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:42:25 PM
2	189.2	51.54mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:44:41 PM
3	190.3	51.84mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:46:57 PM
4	194.6	53.01mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:49:12 PM

Mean Area 192.3
Mean Conc. 52.40mg/L



Sample

Sample Name: 280-137124-D-1
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

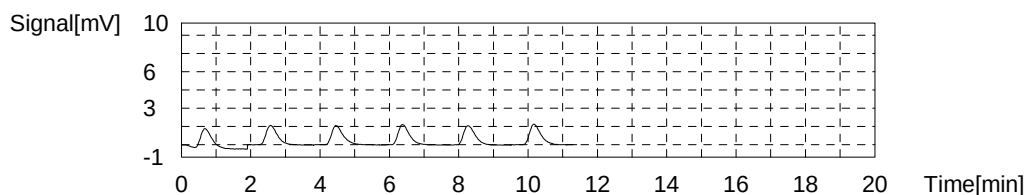
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8789mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.372	0.8082mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:57:45 PM
2	3.542	0.8546mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 12:59:49 PM
3	3.549	0.8566mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:01:53 PM
4	3.773	0.9177mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:03:57 PM
5	3.660	0.8869mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:06:01 PM
6	3.803	0.9259mg/L	50uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:08:05 PM

Mean Area 3.631
Mean Conc. 0.8789mg/L



Sample

Sample Name: 280-136982-G-1
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

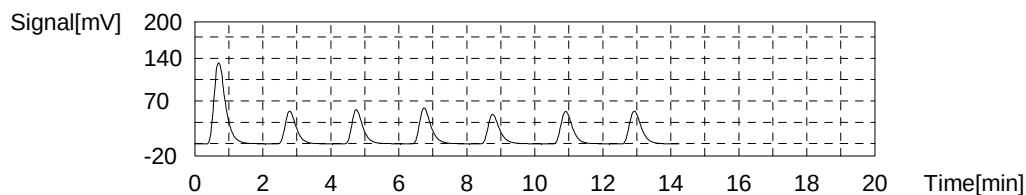
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:76.00mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	315.4	85.99mg/L	50uL	1	R	TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:16:42 PM
2	123.6	73.24mg/L	23uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:18:50 PM
3	127.5	75.55mg/L	23uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:20:59 PM
4	139.7	82.79mg/L	23uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:23:10 PM
5	115.4	68.37mg/L	23uL	1	E	TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:25:27 PM
6	127.9	75.79mg/L	23uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:27:38 PM
7	134.0	79.41mg/L	23uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:32:10 PM

Mean Area 128.3
Mean Conc. 76.00mg/L



Sample

Sample Name: ccv
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

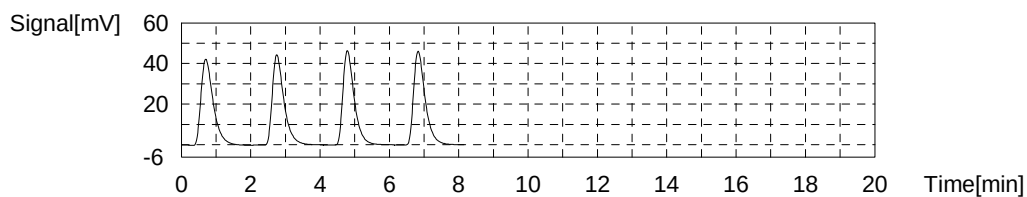
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.91mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	106.0	28.82mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:40:47 PM
2	104.8	28.50mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:42:59 PM
3	106.2	28.88mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:45:12 PM
4	108.2	29.42mg/L	50uL	1		TOC3.2020_05_04_14_18_22.cal	6/10/2020 1:47:22 PM

Mean Area 106.3
Mean Conc. 28.91mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: NPOC.met
Status: Aborted
Chk. Result

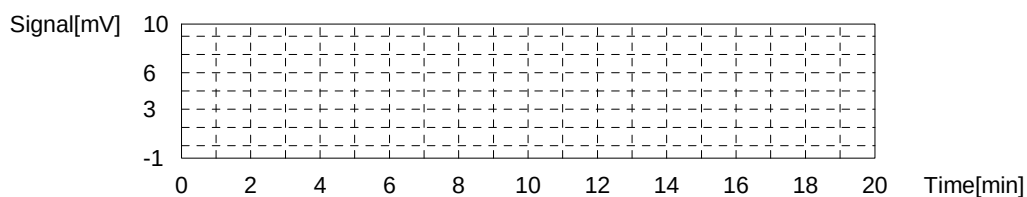
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.000mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
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Mean Area 0.000
Mean Conc. 0.000mg/L



9060
DOC

	Analysis	Sample Name	Manual	Result	Notes	Status	Date / Time	Vial
1*	NPOC	icv	1.000	✓		Defined		1
2*	NPOC	icb	1.000	✓		Defined		2
3*	NPOC	LCS 280-498065/1-A	1.000	✓		Defined		3
4*	NPOC	LCSD 280-498065/2-A	1.000	✓		Defined		4
5*	NPOC	MB 280-498065/3-A	1.000	✓		Defined		5
6*	NPOC	tic	1.000	✓		Defined		6
7*	NPOC	280-136897-B-1-B	1.000	5		Defined		7
8*	NPOC	280-136897-B-1-C MS	1.000	5		Defined		8
9*	NPOC	280-136897-B-1-D MS	1.000	5		Defined		9
10*	NPOC	280-136897-B-1-E DU	1.000	5		Defined		10
11*	NPOC	280-136897-C-2-B	1.000	5		Defined		11
12*	NPOC	280-136897-C-3-B	1.000	5		Defined		12
13*	NPOC	280-136897-C-4-B	1.000	5		Defined		13
14*	NPOC	280-137048-D-1-A	1.000	6		Defined		14
15*	NPOC	ccv	1.000	✓		Defined		15
16*	NPOC	ccb	1.000	✓		Defined		16
17*	NPOC	280-137048-D-2-A	1.000	6	2x Dil (color)	Defined		17
18*	NPOC	280-137084-D-1-A	1.000	6		Defined		18
19*	NPOC	280-137084-D-2-A	1.000	6		Defined		19
20*	NPOC	280-137084-D-3-A	1.000	6	2x Dil (color)	Defined		20
21*	NPOC	280-137084-D-4-A	1.000	6		Defined		21
22*	NPOC	280-137084-D-4-B MS	1.000	6		Defined		22
23*	NPOC	280-137084-D-4-C MS	1.000	6		Defined		23
24*	NPOC	280-137084-D-5-A	1.000	6	2x Dil (color)	Defined		24
25*	NPOC	lcs	1.000	✓		Defined		25
26*	NPOC	lcsd	1.000	✓		Defined		26
27*	NPOC	ccv	1.000	✓		Defined		27
28*	NPOC	ccb	1.000	✓		Defined		28
29*	NPOC	mb	1.000	✓		Defined		29
30*	NPOC	tic	1.000	✓		Defined		30
31*	NPOC	280-136849-B-2	1.000	✓		Defined		31
32*	NPOC	280-136849-B-3	1.000	✓		Defined		32
33*	NPOC	280-136849-B-4	1.000	✓		Defined		33
34*	NPOC	280-137328-B-1	1.000	✓		Defined		34
35*	NPOC	ms 280-137328-B-1	1.000	✓		Defined		35
36*	NPOC	msd 280-137328-B-1	1.000	✓		Defined		36
37*	NPOC	280-137328-B-2	1.000	✓		Defined		37
38*	NPOC	280-137328-B-3	1.000	✓		Defined		38
39*	NPOC	ccv	1.000	✓		Defined		39
40*	NPOC	ccb	1.000	✓		Defined		40
41*	NPOC	280-137328-B-4	1.000	✓	QMS 6/29/20	Defined		41
42*	NPOC	280-137328-B-6	1.000	✓	20x Dil color + bubbles	Defined		42
43*	NPOC	280-136897-B-2	1.000	✓		Defined		43
44*	NPOC	280-136897-B-3	1.000	✓		Defined		44
45*	NPOC	280-136897-B-4	1.000	✓		Defined		45
46*	NPOC	lcs	1.000	✓		Defined		46
47*	NPOC	mb	1.000	✓		Defined		47
48*	NPOC	tic	1.000	✓		Defined		48
49*	NPOC	280-137163-D-4	1.000	✓		Defined		49
50*	NPOC	ms 280-137163-D-4	1.000	✓		Defined		50
51*	NPOC	ccv	1.000	✓		Defined		51

	Analysis	Sample Name	Manual	PH ^{Result}	Notes	Status	Date / Time	Vial
52*	NPOC	ccb	1.000	✓		Defined		52
53*	NPOC	msd 280-137163-D-4	1.000	✓		Defined		53
54*	NPOC	280-137163-D-1	1.000	✓		Defined		54
55*	NPOC	280-137163-D-2	1.000	✓		Defined		55
56*	NPOC	280-137163-D-3	1.000	✓		Defined		56
57*	NPOC	280-136985-C-1	1.000	✓		Defined		57
58*	NPOC	280-136985-C-2	1.000	✓		Defined		58
59*	NPOC	280-136985-C-3	1.000	✓		Defined		59
60*	NPOC	280-136985-C-4	1.000	✓		Defined		60
61*	NPOC	280-136985-C-5	1.000	✓		Defined		61
62*	NPOC	280-136985-C-6	1.000	✓		Defined		62
63*	NPOC	ccv	1.000	✓		Defined		63
64*	NPOC	ccb	1.000	✓		Defined		64
65*	NPOC	280-136848-N-1	1.000	✓		Defined		65
66*	NPOC	ms 280-136848-N-1	1.000	✓		Defined		66
67*	NPOC	msd 280-136848-N-1	1.000	✓		Defined		67
68*	NPOC	280-136795-J-2	1.000	✓		Defined		68
69*	NPOC	280-136887-O-1	1.000	✓		Defined		69
70*	NPOC	280-136939-C-1	1.000	✓		Defined		70
71*	NPOC	280-137124-D-1	1.000	✓		Defined		71
72*	NPOC	280-136982-G-1	1.000	✓		Defined		72
73*	NPOC	ccv	1.000	✓		Defined		73
74*	NPOC	ccb	1.000	✓		Defined		74

RR
RR

	Analysis	Sample Name	Manua	Result	Notes	Status	Date / Time
1	NPOC	CAL 110716	1.000		Cal Curve OK	Comple	6/11/2020
2	NPOC	icv	1.000	NPOC:19.75mg		Comple	6/11/2020
3	NPOC	icb	1.000	NPOC:-0.00657		Comple	6/11/2020
4	NPOC	LCS 280-498352/1-A	1.000	NPOC:25.79mg		Comple	6/11/2020
5	NPOC	LCSD 280-498352/2-A	1.000	NPOC:25.70mg		Comple	6/11/2020
6	NPOC	MB 280-498352/3-A	1.000	NPOC:0.2144m		Comple	6/11/2020
7	NPOC	tic	1.000	NPOC:0.05763		Comple	6/11/2020
8	NPOC	280-136897-C-1-B	1.000	NPOC:4.709mg		Comple	6/11/2020
9	NPOC	280-136897-C-1-C MS	1.000	NPOC:30.14mg		Comple	6/11/2020
10	NPOC	280-136897-C-1-D MS	1.000	NPOC:30.30mg		Comple	6/11/2020
11	NPOC	280-136897-B-1-F DU	1.000	NPOC:4.735mg		Comple	6/11/2020
12	NPOC	280-136897-C-2-C	1.000	NPOC:4.734mg		Comple	6/11/2020
13	NPOC	280-136897-C-3-C	1.000	NPOC:5.155mg		Comple	6/11/2020
14	NPOC	280-136897-C-4-C	1.000	NPOC:5.028mg		Comple	6/11/2020
15	NPOC	280-137084-D-1-B	1.000	NPOC:41.99mg		Comple	6/11/2020
16	NPOC	ccv	1.000	NPOC:25.93mg		Comple	6/11/2020
17	NPOC	ccb	1.000	NPOC:0.03857		Comple	6/11/2020
18	NPOC	280-137084-D-2-B	1.000	NPOC:19.90mg		Comple	6/11/2020
19	NPOC	280-137084-D-3-B	2.000	NPOC:154.4mg		Comple	6/11/2020
20	NPOC	280-137084-D-4-D	1.000	NPOC:63.10mg		Comple	6/12/2020
21	NPOC	280-137084-D-5-B	2.000	NPOC:95.51mg		Comple	6/12/2020
22	NPOC	280-137048-D-1-B	1.000	NPOC:10.10mg		Comple	6/12/2020
23	NPOC	280-137048-D-1-C MS	1.000	NPOC:35.40mg		Comple	6/12/2020
24	NPOC	280-137048-D-1-D MS	1.000	NPOC:34.83mg		Comple	6/12/2020
25	NPOC	280-137048-D-2-B	2.000	NPOC:67.55mg		Comple	6/12/2020
26	NPOC	lcs	1.000	NPOC:26.22mg		Comple	6/12/2020
27	NPOC	lcsd	1.000	NPOC:25.70mg		Comple	6/12/2020
28	NPOC	ccv	1.000	NPOC:26.23mg		Comple	6/12/2020
29	NPOC	ccb	1.000	NPOC:0.02573		Comple	6/12/2020
30	NPOC	mb	1.000	NPOC:0.00698		Comple	6/12/2020
31	NPOC	tic	1.000	NPOC:0.06452		Comple	6/12/2020
32	NPOC	280-137199-B-8	1.000	NPOC:14.63mg		Comple	6/12/2020
33	NPOC	ms 280-137199-B-8	1.000	NPOC:40.59mg		Comple	6/12/2020
34	NPOC	msd 280-137199-B-8	1.000	NPOC:40.78mg		Comple	6/12/2020
35	NPOC	280-137199-C-2	1.000	NPOC:5.007mg		Comple	6/12/2020
36	NPOC	280-137199-B-4	1.000	NPOC:8.545mg		Comple	6/12/2020
37	NPOC	280-137199-C-6	1.000	NPOC:4.537mg		Comple	6/12/2020
38	NPOC	280-137173-B-1	1.000	NPOC:8.818mg		Comple	6/12/2020
39	NPOC	280-137173-B-2	1.000	NPOC:2.552mg		Comple	6/12/2020
40	NPOC	ccv	1.000	NPOC:26.36mg		Comple	6/12/2020
41	NPOC	ccb	1.000	NPOC:0.01510		Comple	6/12/2020
42	NPOC	280-137173-B-3	1.000	NPOC:3.704mg		Comple	6/12/2020
43	NPOC	280-137257-B-1	1.000	NPOC:3.436mg		Comple	6/12/2020
44	NPOC	280-137257-B-2	2.000	NPOC:611.1mg		Comple	6/12/2020
45	NPOC	280-137257-B-3	1.000	NPOC:3.443mg		Comple	6/12/2020
46	NPOC	280-137257-B-4	1.000	NPOC:9.711mg		Comple	6/12/2020
47	NPOC	ms 280-137257-B-4	1.000	NPOC:37.17mg		Comple	6/12/2020
48	NPOC	msd 280-137257-B-4	1.000	NPOC:36.25mg		Comple	6/12/2020
49	NPOC	280-137360-A-2	1.000	NPOC:9.238mg		Comple	6/12/2020
50	NPOC	280-137172-B-1	1.000	NPOC:2.504mg		Comple	6/12/2020
51	NPOC	280-137172-B-2	1.000	NPOC:2.594mg		Comple	6/12/2020
52	NPOC	ccv	1.000	NPOC:26.66mg		Comple	6/12/2020
53	NPOC	ccb	1.000	NPOC:0.02262		Comple	6/12/2020

	Vial
1	86, 87, 88, 89, 90, 91
2	1
3	2
4	3
5	4
6	5
7	6
8	7
9	8
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11	10
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47	46
48	47
49	48
50	49
51	50
52	51
53	52

	Analysis	Sample Name	Manua	Result	Notes	Status	Date / Time
54	NPOC	280-137172-B-3	1.000	NPOC:3.488mg		Comple	6/12/2020
55	NPOC	280-137172-B-4	1.000	NPOC:3.279mg		Comple	6/12/2020
56	NPOC	280-137172-B-5	1.000	NPOC:4.515mg		Comple	6/12/2020
57	NPOC	280-137172-B-6	1.000	NPOC:2.700mg		Comple	6/12/2020
58	NPOC	280-137172-B-7	1.000	NPOC:2.981mg		Comple	6/12/2020
59	NPOC	280-137172-B-8	1.000	NPOC:4.037mg		Comple	6/12/2020
60	NPOC	lcs	1.000	NPOC:27.07mg		Comple	6/12/2020
61	NPOC	mb	1.000	NPOC:0.02882		Comple	6/12/2020
62	NPOC	tic	1.000	NPOC:0.06648		Comple	6/12/2020
63	NPOC	280-137172-B-9	1.000	NPOC:3.429mg		Comple	6/12/2020
64	NPOC	ccv	1.000	NPOC:27.25mg		Comple	6/12/2020
65	NPOC	ccb	1.000	NPOC:0.06047		Comple	6/12/2020
66	NPOC	ms 280-137172-B-9	1.000	NPOC:30.81mg		Comple	6/12/2020
67	NPOC	msd 280-137172-B-9	1.000	NPOC:30.32mg		Comple	6/12/2020
68	NPOC	280-137172-B-10	1.000	NPOC:4.037mg		Comple	6/12/2020
69	NPOC	280-137172-B-11	1.000	NPOC:3.403mg		Comple	6/12/2020
70	NPOC	280-137172-B-12	1.000	NPOC:2.532mg		Comple	6/12/2020
71	NPOC	280-137172-B-13	1.000	NPOC:3.212mg		Comple	6/12/2020
72	NPOC	280-137172-B-14	1.000	NPOC:2.829mg		Comple	6/12/2020
73	NPOC	280-137172-B-15	1.000	NPOC:3.523mg		Comple	6/12/2020
74	NPOC	280-137172-B-16	1.000	NPOC:3.265mg		Comple	6/12/2020
75	NPOC	ccv	1.000	NPOC:27.24mg		Comple	6/12/2020
76	NPOC	ccb	1.000	NPOC:0.02878		Comple	6/12/2020

	Vial
54	53
55	54
56	55
57	56
58	57
59	58
60	59
61	60
62	61
63	62
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68	67
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71	70
72	71
73	72
74	73
75	74
76	75

Date of Creation 6:55:21 PM 6/11/2020
User jmb
System T0C-V cpn 3

Cal. Curve

Sample Name: CAL 110716
Sample ID: Untitled
Object ID: 0A-103108-04335027-1343CA32A814-0000
Cal. Curve: T0C3. 2020_06_11_17_47_35.cal
Status Completed
Comment:

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.2252	50uL	1	*****	E	6/11/2020 5:55:32 PM
2	0.6226	50uL	1	*****		6/11/2020 5:57:36 PM
3	0.5474	50uL	1	*****		6/11/2020 5:59:40 PM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 0.5850
SD Area 0.05317
CV Area 9.09%
Vial 86

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	5.134	50uL	1	*****	E	6/11/2020 6:08:12 PM
2	3.842	50uL	1	*****		6/11/2020 6:10:16 PM
3	3.845	50uL	1	*****		6/11/2020 6:12:20 PM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 3.844
SD Area 0.00212
CV Area 0.06%
Vial 87

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	17.65	50uL	1	*****		6/11/2020 6:20:53 PM
2	17.70	50uL	1	*****		6/11/2020 6:22:56 PM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 17.68
SD Area 0.03536
CV Area 0.20%
Vial 88

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	35.40	50uL	1	*****		6/11/2020 6:31:33 PM
2	35.38	50uL	1	*****		6/11/2020 6:33:37 PM

Acid Add. 0.000%
 Sp. Time 90.00sec
 Mean Area 35.39
 SD Area 0.01414
 CV Area 0.04%
 Vial 89

Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	87.83	50uL	1	*****		6/11/2020 6:42:16 PM
2	87.27	50uL	1	*****		6/11/2020 6:44:24 PM

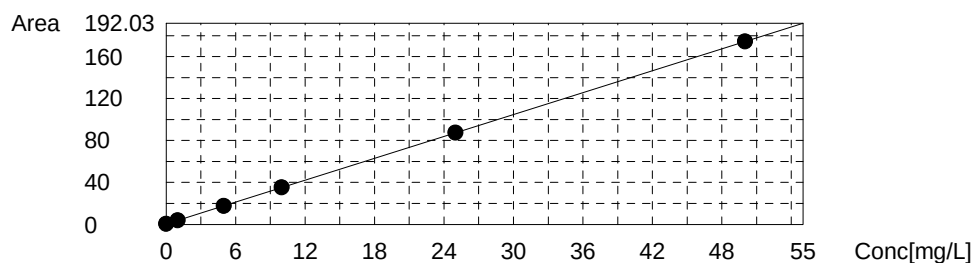
Acid Add. 0.000%
 Sp. Time 90.00sec
 Mean Area 87.55
 SD Area 0.3960
 CV Area 0.45%
 Vial 90

Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	174.9	50uL	1	*****		6/11/2020 6:53:09 PM
2	174.2	50uL	1	*****		6/11/2020 6:55:21 PM

Acid Add. 0.000%
 Sp. Time 90.00sec
 Mean Area 174.6
 SD Area 0.4950
 CV Area 0.28%
 Vial 91

Slope: 3.483
 Intercept 0.4475
 r^2 1.0000
 r 1.0000
 Zero Shift No



Instr. Information

System
Instrument Options
Catalyst

TOC-V cpn 3
TOC/ASI/
Regular Sensitivity

Cal. Curve

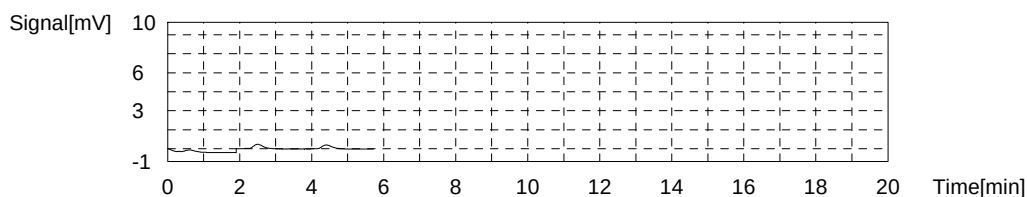
Sample Name: CAL 110716
Sample ID: Untitled
Cal. Curve: TOC3.2020_06_11_17_47_35.cal
Status: Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.2252	50uL	1	*****	E	6/11/2020 5:55:32 PM
2	0.6226	50uL	1	*****		6/11/2020 5:57:36 PM
3	0.5474	50uL	1	*****		6/11/2020 5:59:40 PM

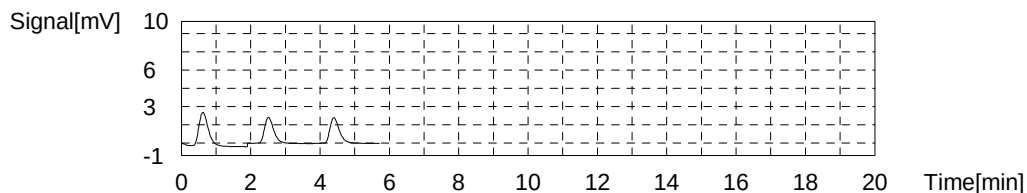
Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 0.5850



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	5.134	50uL	1	*****	E	6/11/2020 6:08:12 PM
2	3.842	50uL	1	*****		6/11/2020 6:10:16 PM
3	3.845	50uL	1	*****		6/11/2020 6:12:20 PM

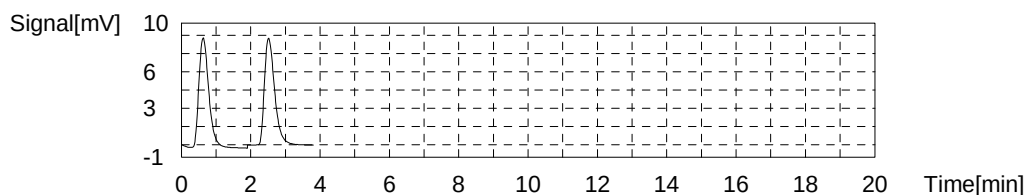
Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 3.844



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	17.65	50uL	1	*****		6/11/2020 6:20:53 PM
2	17.70	50uL	1	*****		6/11/2020 6:22:56 PM

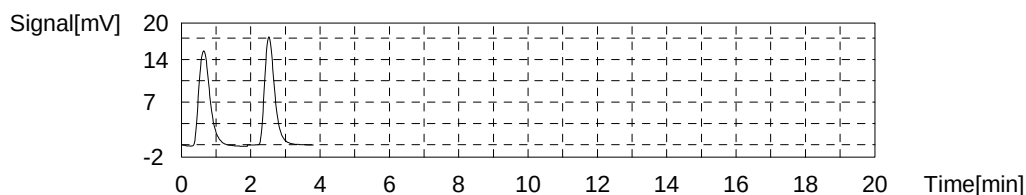
Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 17.68



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	35.40	50uL	1	*****		6/11/2020 6:31:33 PM
2	35.38	50uL	1	*****		6/11/2020 6:33:37 PM

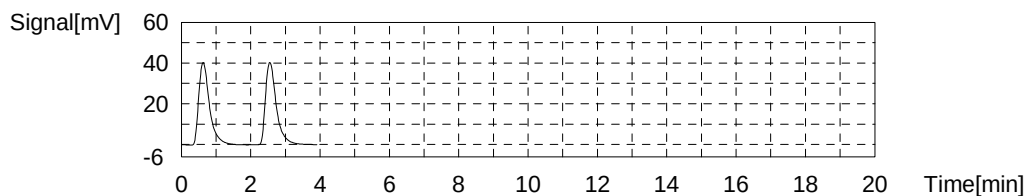
Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 35.39



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	87.83	50uL	1	*****		6/11/2020 6:42:16 PM
2	87.27	50uL	1	*****		6/11/2020 6:44:24 PM

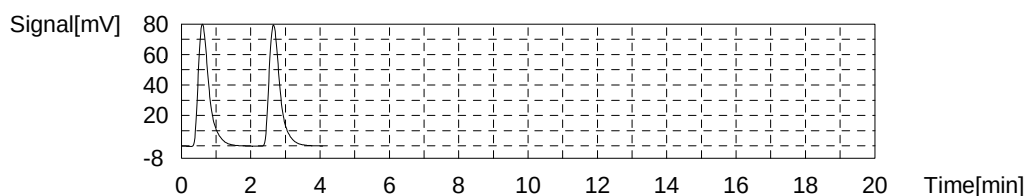
Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 87.55



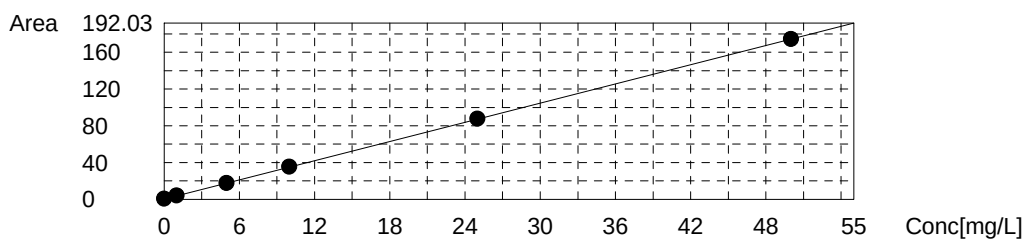
Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	174.9	50uL	1	*****		6/11/2020 6:53:09 PM
2	174.2	50uL	1	*****		6/11/2020 6:55:21 PM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 174.6



Slope: 3.483
Intercept 0.4475
 r^2 1.0000
r 1.0000
Zero Shift No



Sample

Sample Name: icv
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

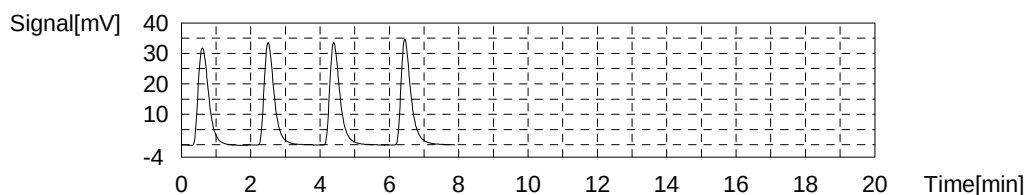
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:19.75mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	68.57	19.56mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 7:04:00 PM
2	68.27	19.48mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 7:06:03 PM
3	69.48	19.82mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 7:08:16 PM
4	70.60	20.14mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 7:10:28 PM

Mean Area 69.23
Mean Conc. 19.75mg/L



Sample

Sample Name: icb
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

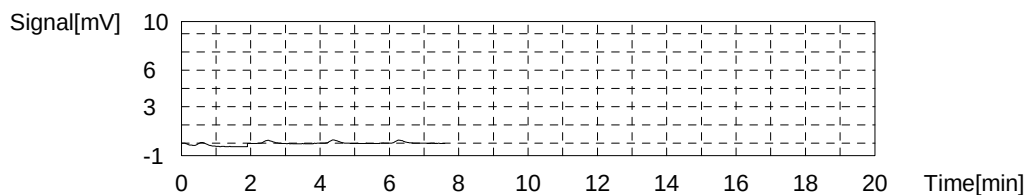
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.00657mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3989	-0.01395mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 7:18:59 PM
2	0.4363	-0.00321mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 7:21:03 PM
3	0.4581	0.00305mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 7:23:07 PM
4	0.4051	-0.01217mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 7:25:11 PM

Mean Area 0.4246
Mean Conc. -0.00657mg/L



Sample

Sample Name: LCS 280-498352/1-A
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

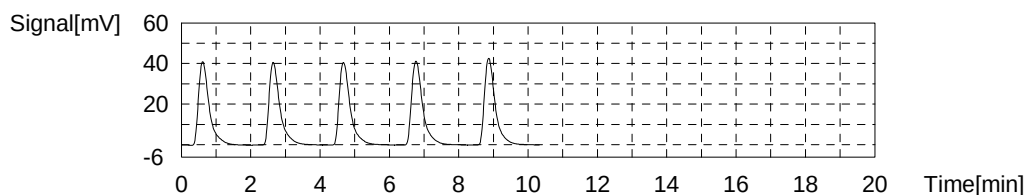
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.79mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	89.26	25.50mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 7:33:52 PM
2	88.89	25.40mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 7:36:02 PM
3	90.43	25.84mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 7:38:17 PM
4	92.95	26.56mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/11/2020 7:40:33 PM
5	92.43	26.41mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 7:42:47 PM

Mean Area 90.25
Mean Conc. 25.79mg/L



Sample

Sample Name: LCSD 280-498352/2-A
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

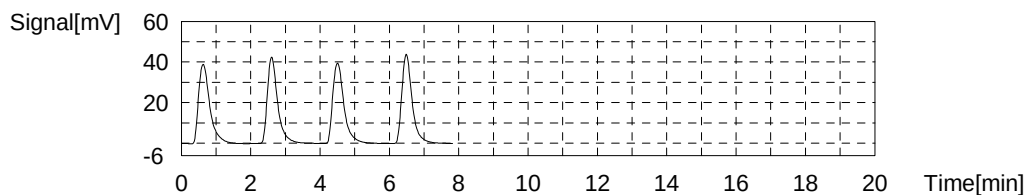
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.70mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	89.60	25.60mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 7:51:21 PM
2	88.46	25.27mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 7:53:25 PM
3	90.21	25.78mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 7:55:33 PM
4	91.51	26.15mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 7:57:42 PM

Mean Area 89.94
Mean Conc. 25.70mg/L



Sample

Sample Name: MB 280-498352/3-A
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

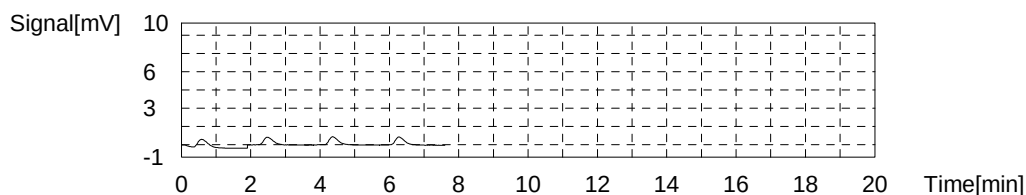
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2144mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.247	0.2296mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 8:06:13 PM
2	1.172	0.2080mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 8:08:17 PM
3	1.180	0.2103mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 8:10:21 PM
4	1.177	0.2095mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 8:12:25 PM

Mean Area 1.194
Mean Conc. 0.2144mg/L



Sample

Sample Name: tic
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

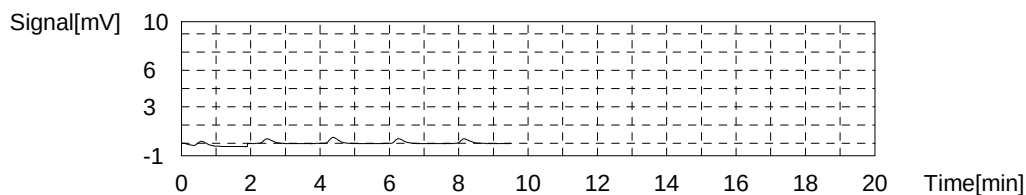
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.05763mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5620	0.03289mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 8:20:56 PM
2	0.6654	0.06258mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 8:23:00 PM
3	0.8676	0.1206mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/11/2020 8:25:04 PM
4	0.6989	0.07220mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 8:27:08 PM
5	0.6664	0.06286mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 8:29:12 PM

Mean Area 0.6482
Mean Conc. 0.05763mg/L



Sample

Sample Name: 280-136897-C-1-B
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

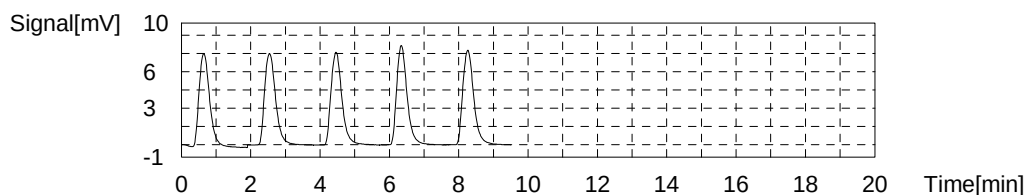
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.709mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.23	4.532mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/11/2020 8:37:42 PM
2	16.53	4.618mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 8:39:46 PM
3	16.74	4.678mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 8:41:50 PM
4	17.03	4.762mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 8:43:54 PM
5	17.09	4.779mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 8:45:58 PM

Mean Area 16.85
Mean Conc. 4.709mg/L



Sample

Sample Name: 280-136897-C-1-C MS
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

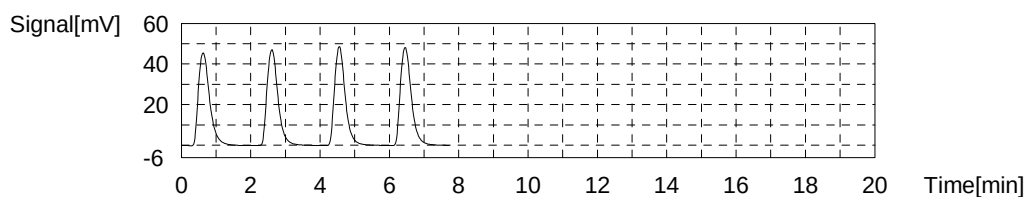
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:30.14mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	104.5	29.88mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 8:54:32 PM
2	104.4	29.85mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 8:56:39 PM
3	105.3	30.11mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 8:58:43 PM
4	107.4	30.71mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 9:00:47 PM

Mean Area 105.4
Mean Conc. 30.14mg/L



Sample

Sample Name: 280-136897-C-1-D MSD
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

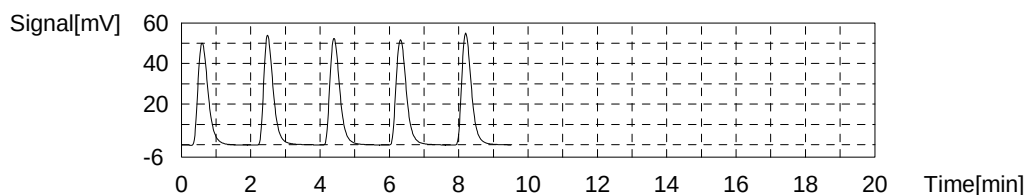
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:30.30mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	105.0	30.02mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 9:09:18 PM
2	104.2	29.79mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 9:11:22 PM
3	106.3	30.40mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 9:13:26 PM
4	109.3	31.26mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/11/2020 9:15:30 PM
5	108.4	31.00mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 9:17:34 PM

Mean Area 106.0
Mean Conc. 30.30mg/L



Sample

Sample Name: 280-136897-B-1-F DU
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

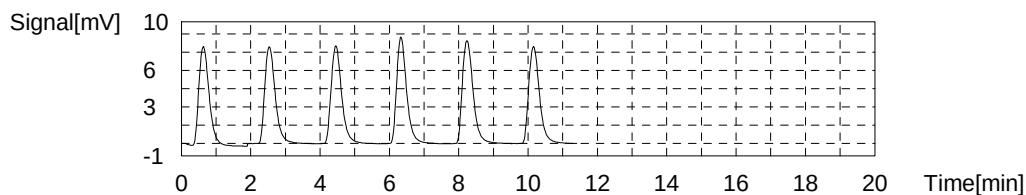
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.735mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.75	4.681mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 9:26:04 PM
2	16.69	4.664mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 9:28:08 PM
3	17.03	4.762mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 9:30:12 PM
4	17.54	4.908mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/11/2020 9:32:16 PM
5	18.25	5.112mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/11/2020 9:34:20 PM
6	17.28	4.833mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 9:36:24 PM

Mean Area 16.94
Mean Conc. 4.735mg/L



Sample

Sample Name: 280-136897-C-2-C
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

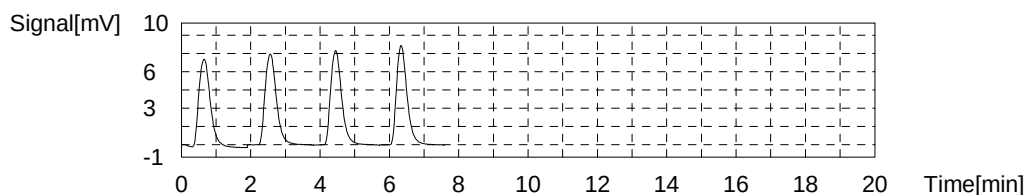
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.734mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.48	4.604mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 9:44:49 PM
2	16.90	4.724mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 9:46:53 PM
3	17.13	4.790mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 9:48:57 PM
4	17.23	4.819mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 9:51:01 PM

Mean Area 16.94
Mean Conc. 4.734mg/L



Sample

Sample Name: 280-136897-C-3-C
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

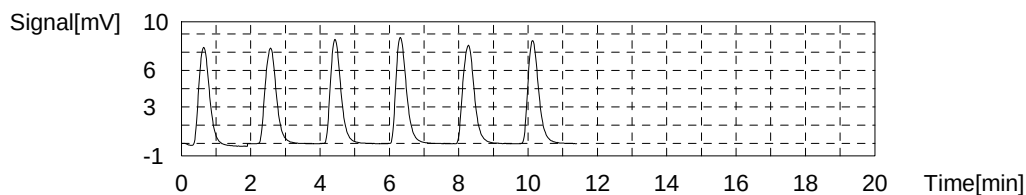
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.155mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.41	4.871mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/11/2020 9:59:33 PM
2	17.75	4.968mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/11/2020 10:01:36 PM
3	18.04	5.052mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 10:03:40 PM
4	18.53	5.192mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 10:05:44 PM
5	18.70	5.241mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 10:07:48 PM
6	18.33	5.135mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 10:09:52 PM

Mean Area 18.40
Mean Conc. 5.155mg/L



Sample

Sample Name: 280-136897-C-4-C
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

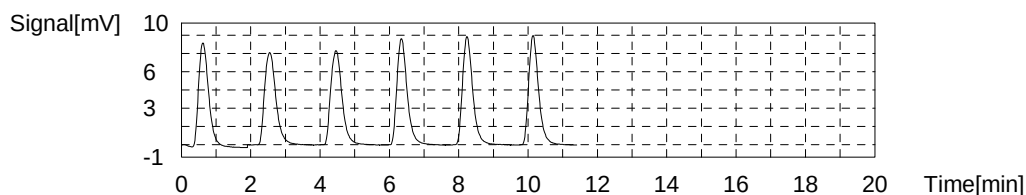
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.028mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.17	4.802mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/11/2020 10:18:17 PM
2	17.31	4.842mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/11/2020 10:20:21 PM
3	17.58	4.920mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 10:22:25 PM
4	18.09	5.066mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 10:24:29 PM
5	18.18	5.092mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 10:26:33 PM
6	17.98	5.034mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 10:28:37 PM

Mean Area 17.96
Mean Conc. 5.028mg/L



Sample

Sample Name: 280-137084-D-1-B
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

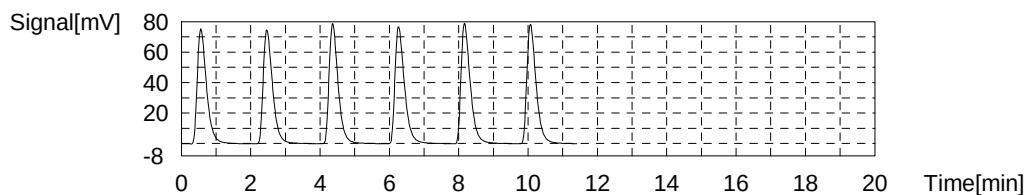
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:41.99mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	141.5	40.50mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/11/2020 10:37:02 PM
2	141.3	40.45mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/11/2020 10:39:06 PM
3	143.6	41.11mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 10:41:10 PM
4	147.9	42.34mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 10:43:14 PM
5	148.4	42.48mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 10:45:18 PM
6	146.8	42.02mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 10:47:22 PM

Mean Area 146.7
Mean Conc. 41.99mg/L



Sample

Sample Name: ccv
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

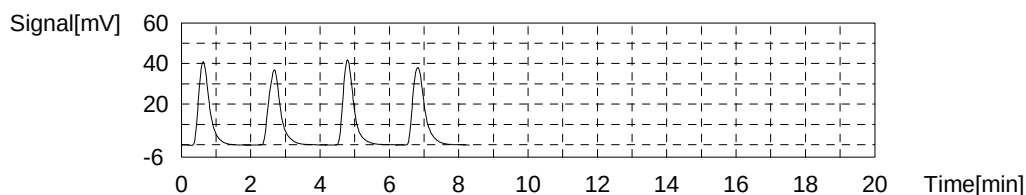
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.93mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	90.19	25.77mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 10:55:53 PM
2	88.88	25.39mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 10:58:13 PM
3	90.95	25.99mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 11:00:24 PM
4	92.92	26.55mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 11:02:41 PM

Mean Area 90.73
Mean Conc. 25.93mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

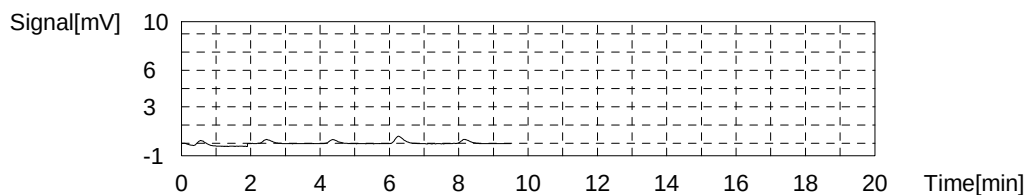
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.03857mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6720	0.06447mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 11:11:12 PM
2	0.5617	0.03280mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 11:13:16 PM
3	0.5331	0.02459mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 11:15:20 PM
4	1.043	0.1710mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/11/2020 11:17:24 PM
5	0.5604	0.03243mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 11:19:28 PM

Mean Area 0.5818
Mean Conc. 0.03857mg/L



Sample

Sample Name: 280-137084-D-2-B
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

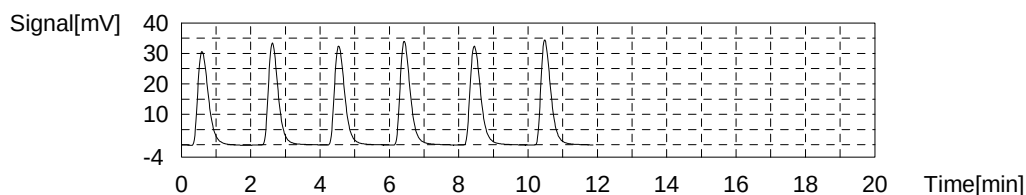
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:19.90mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	67.31	19.20mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/11/2020 11:28:06 PM
2	66.64	19.01mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/11/2020 11:30:10 PM
3	68.44	19.52mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 11:32:14 PM
4	70.49	20.11mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 11:34:25 PM
5	70.55	20.13mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 11:36:38 PM
6	69.56	19.85mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 11:38:46 PM

Mean Area 69.76
Mean Conc. 19.90mg/L



Sample

Sample Name: 280-137084-D-3-B
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

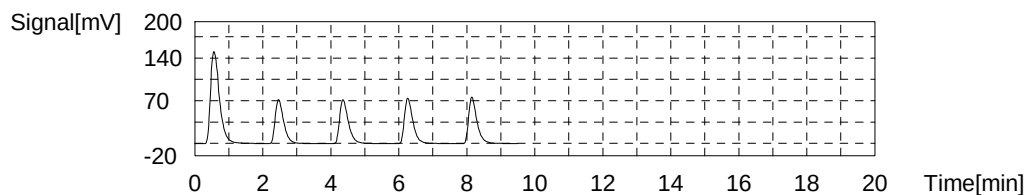
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	2.000	NPOC:154.4mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	279.7	160.4mg/L	50uL	1	R	TOC3.2020_06_11_17_47_35.cal	6/11/2020 11:47:11 PM
2	127.0	151.7mg/L	24uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 11:49:15 PM
3	129.3	154.4mg/L	24uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 11:51:19 PM
4	129.5	154.7mg/L	24uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 11:53:23 PM
5	131.1	156.6mg/L	24uL	1		TOC3.2020_06_11_17_47_35.cal	6/11/2020 11:55:27 PM

Mean Area 129.2
Mean Conc. 154.4mg/L



Sample

Sample Name: 280-137084-D-4-D
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

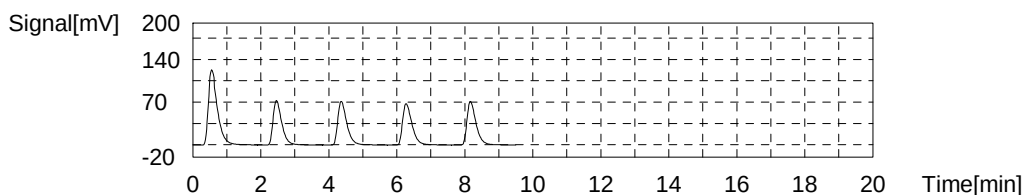
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:63.10mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	227.9	65.31mg/L	50uL	1	R	TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:03:57 AM
2	131.3	62.71mg/L	30uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:06:01 AM
3	133.2	63.62mg/L	30uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:08:05 AM
4	130.8	62.47mg/L	30uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:10:09 AM
5	133.2	63.62mg/L	30uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:12:13 AM

Mean Area 132.1
Mean Conc. 63.10mg/L



Sample

Sample Name: 280-137084-D-5-B
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

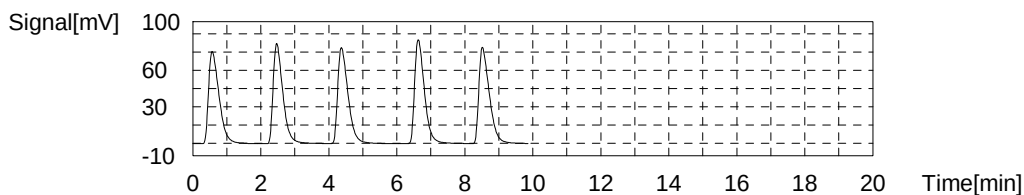
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	2.000	NPOC:95.51mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	164.3	94.10mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:20:43 AM
2	164.3	94.10mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:22:47 AM
3	167.9	96.17mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:25:12 AM
4	171.6	98.29mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:27:16 AM
5	170.5	97.66mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:29:20 AM

Mean Area 166.8
Mean Conc. 95.51mg/L



Sample

Sample Name: 280-137048-D-1-B
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

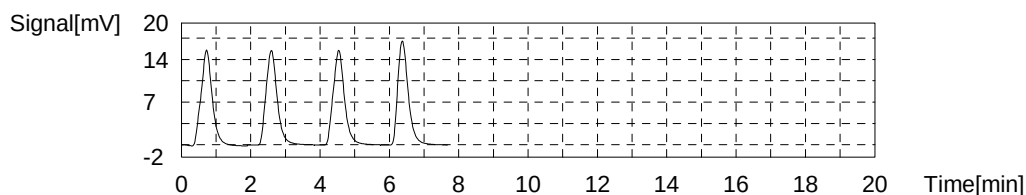
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.10mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	35.73	10.13mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:37:50 AM
2	34.97	9.913mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:39:56 AM
3	35.40	10.04mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:42:00 AM
4	36.36	10.31mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:44:06 AM

Mean Area 35.61
Mean Conc. 10.10mg/L



Sample

Sample Name: 280-137048-D-1-C MS
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

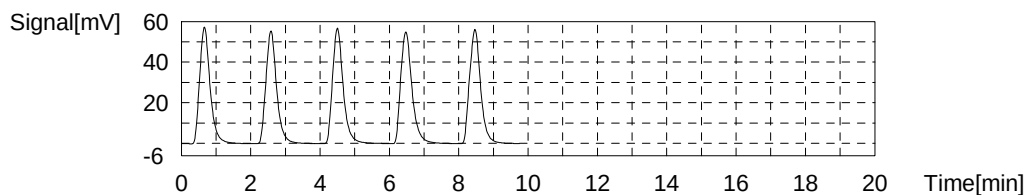
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:35.40mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	121.2	34.67mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:52:37 AM
2	119.6	34.21mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:54:43 AM
3	122.4	35.02mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:56:52 AM
4	125.6	35.94mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:59:00 AM
5	125.7	35.97mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:01:08 AM

Mean Area 123.7
Mean Conc. 35.40mg/L



Sample

Sample Name: 280-137048-D-1-D MSD
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

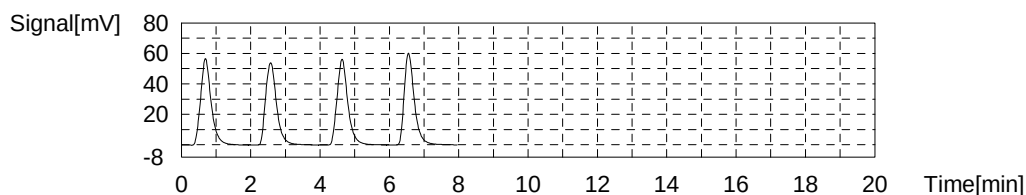
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:34.83mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	121.5	34.76mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:09:39 AM
2	119.4	34.16mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:11:51 AM
3	123.1	35.22mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:13:59 AM
4	123.0	35.19mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:16:11 AM

Mean Area 121.8
Mean Conc. 34.83mg/L



Sample

Sample Name: 280-137048-D-2-B
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

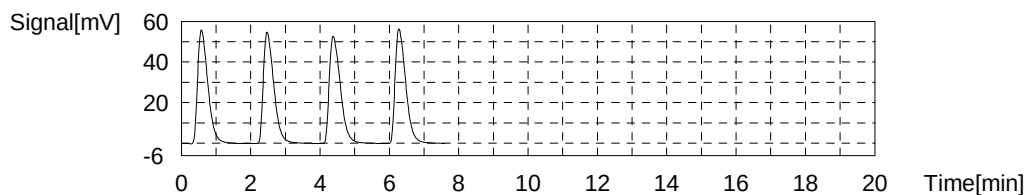
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	2.000	NPOC:67.55mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	116.8	66.82mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:24:42 AM
2	116.0	66.36mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:26:46 AM
3	118.5	67.80mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:28:50 AM
4	121.0	69.23mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:30:54 AM

Mean Area 118.1
Mean Conc. 67.55mg/L



Sample

Sample Name: lcs
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

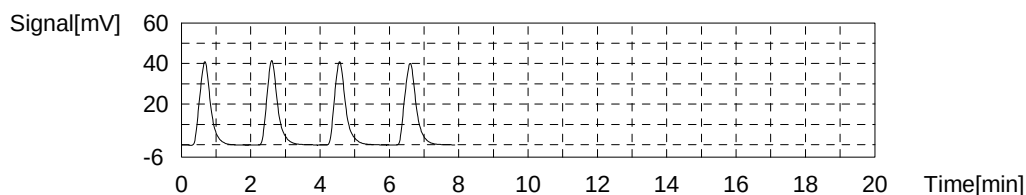
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.22mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	90.87	25.96mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:39:27 AM
2	90.47	25.85mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:41:35 AM
3	92.16	26.34mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:43:46 AM
4	93.56	26.74mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:45:54 AM

Mean Area 91.77
Mean Conc. 26.22mg/L



Sample

Sample Name: lcsd
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

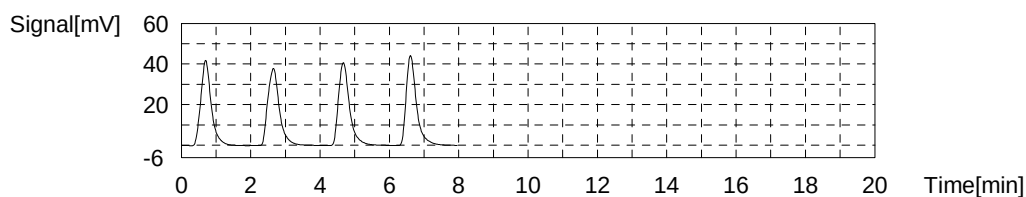
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.70mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	88.92	25.40mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:54:29 AM
2	88.61	25.32mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:56:42 AM
3	90.67	25.91mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:58:49 AM
4	91.62	26.18mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:00:58 AM

Mean Area 89.95
Mean Conc. 25.70mg/L



Sample

Sample Name: ccv
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

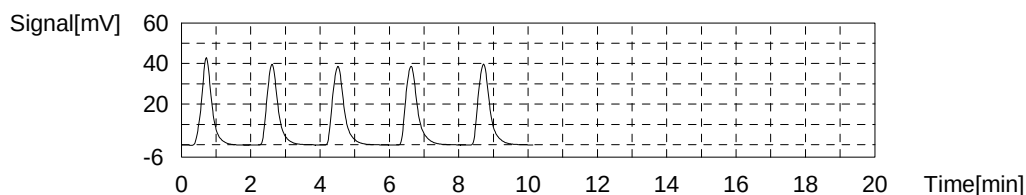
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.23mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	89.85	25.67mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:09:32 AM
2	88.37	25.25mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:11:36 AM
3	91.16	26.05mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:13:53 AM
4	92.64	26.47mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:16:08 AM
5	93.59	26.75mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:18:23 AM

Mean Area 91.81
Mean Conc. 26.23mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

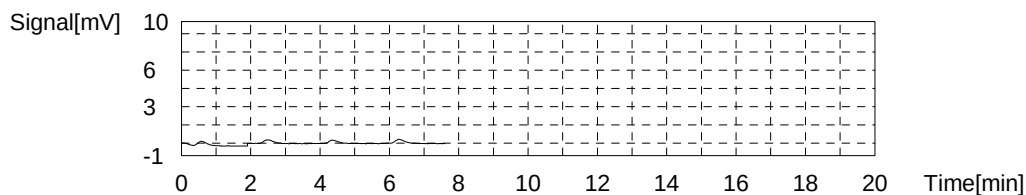
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.02573mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5448	0.02795mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:26:53 AM
2	0.5492	0.02921mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:28:57 AM
3	0.4743	0.00770mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:31:01 AM
4	0.5800	0.03805mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:33:05 AM

Mean Area 0.5371
Mean Conc. 0.02573mg/L



Sample

Sample Name: mb
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

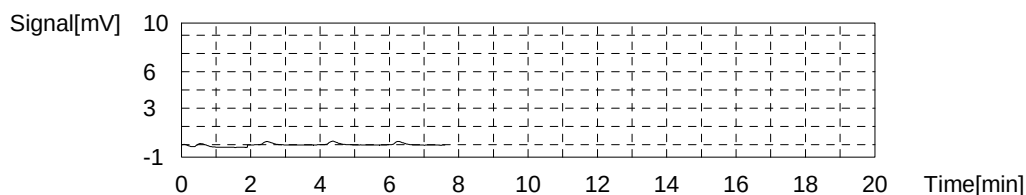
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.00698mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4376	-0.00284mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:41:36 AM
2	0.4775	0.00862mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:43:40 AM
3	0.4971	0.01425mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:45:44 AM
4	0.4749	0.00787mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:47:48 AM

Mean Area 0.4718
Mean Conc. 0.00698mg/L



Sample

Sample Name: tic
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

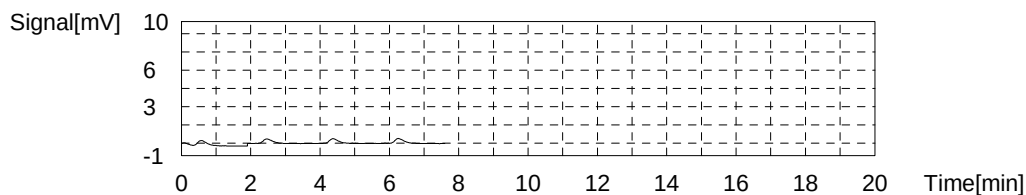
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06452mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6737	0.06496mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:56:19 AM
2	0.6408	0.05551mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:58:23 AM
3	0.6874	0.06889mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:00:27 AM
4	0.6868	0.06872mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:02:31 AM

Mean Area 0.6722
Mean Conc. 0.06452mg/L



Sample

Sample Name: 280-137199-B-8
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

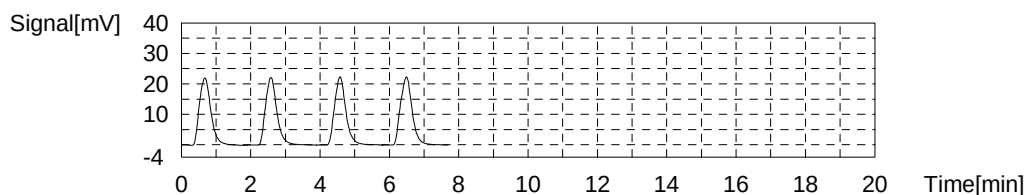
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:14.63mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	51.60	14.69mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:11:03 AM
2	50.52	14.38mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:13:12 AM
3	50.90	14.49mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:15:16 AM
4	52.53	14.96mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:17:20 AM

Mean Area 51.39
Mean Conc. 14.63mg/L



Sample

Sample Name: ms 280-137199-B-8
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

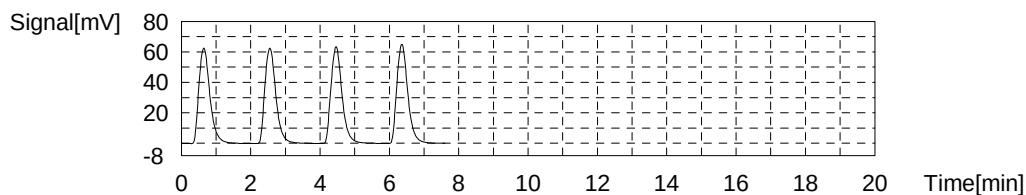
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:40.59mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	140.7	40.27mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:25:52 AM
2	139.3	39.87mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:27:56 AM
3	142.4	40.76mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:30:00 AM
4	144.8	41.45mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:32:04 AM

Mean Area 141.8
Mean Conc. 40.59mg/L



Sample

Sample Name: msd 280-137199-B-8
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

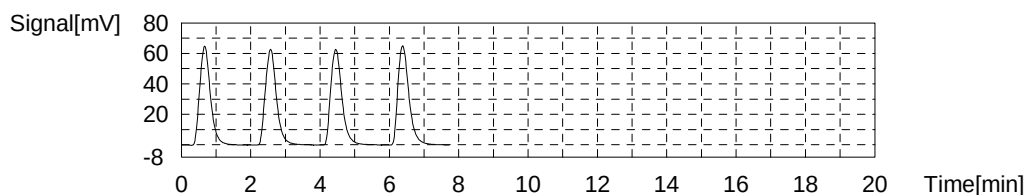
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:40.78mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	140.8	40.30mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:40:36 AM
2	140.6	40.24mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:42:40 AM
3	142.5	40.79mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:44:47 AM
4	145.9	41.77mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:46:55 AM

Mean Area 142.4
Mean Conc. 40.78mg/L



Sample

Sample Name: 280-137199-C-2
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

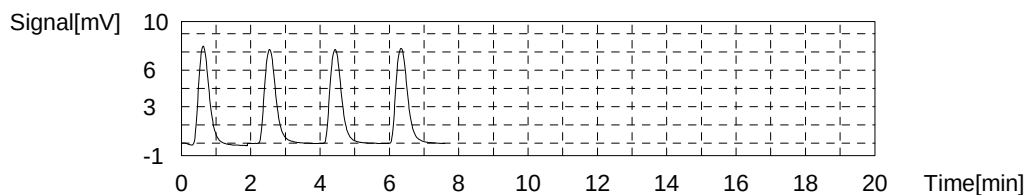
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.007mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.66	4.943mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:55:27 AM
2	17.64	4.937mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:57:31 AM
3	17.88	5.006mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:59:35 AM
4	18.36	5.144mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 4:01:39 AM

Mean Area 17.88
Mean Conc. 5.007mg/L



Sample

Sample Name: 280-137199-B-4
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

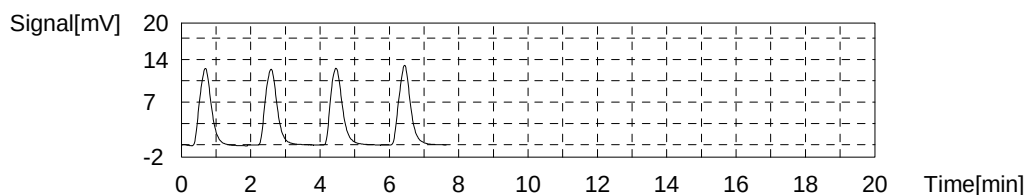
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.545mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	30.16	8.532mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 4:10:11 AM
2	29.68	8.394mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 4:12:15 AM
3	30.19	8.541mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 4:14:21 AM
4	30.79	8.713mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 4:16:25 AM

Mean Area 30.21
Mean Conc. 8.545mg/L



Sample

Sample Name: 280-137199-C-6
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

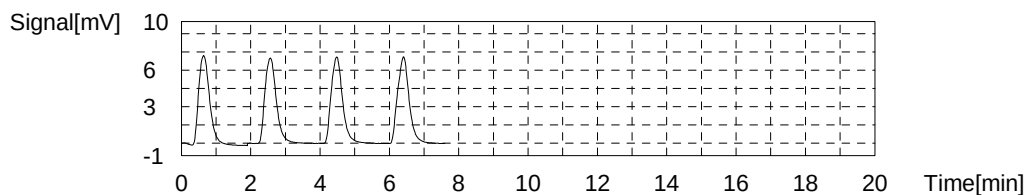
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.537mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.12	4.500mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 4:24:57 AM
2	16.03	4.475mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 4:27:01 AM
3	16.22	4.529mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 4:29:05 AM
4	16.62	4.644mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 4:31:09 AM

Mean Area 16.25
Mean Conc. 4.537mg/L



Sample

Sample Name: 280-137173-B-1
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

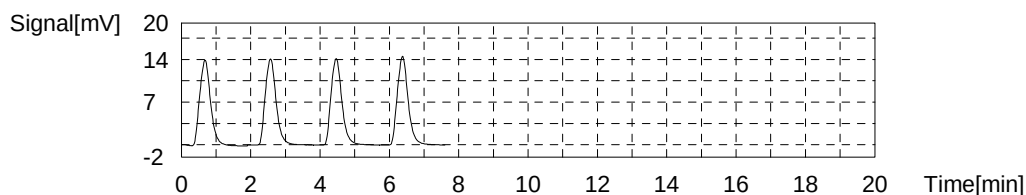
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.818mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	30.97	8.765mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 4:39:41 AM
2	30.82	8.721mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 4:41:45 AM
3	31.06	8.790mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 4:43:49 AM
4	31.77	8.994mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 4:45:53 AM

Mean Area 31.16
Mean Conc. 8.818mg/L



Sample

Sample Name: 280-137173-B-2
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

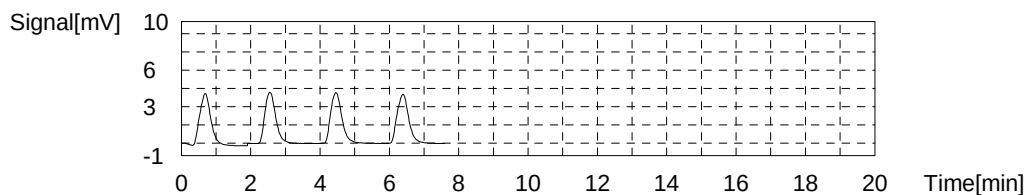
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.552mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.453	2.586mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 4:54:25 AM
2	9.150	2.499mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 4:56:29 AM
3	9.347	2.555mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 4:58:33 AM
4	9.391	2.568mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 5:00:37 AM

Mean Area 9.335
Mean Conc. 2.552mg/L



Sample

Sample Name: ccv
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

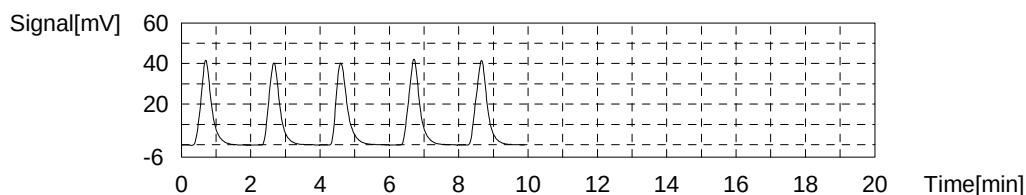
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.36mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	90.21	25.78mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 5:09:15 AM
2	88.55	25.30mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 5:11:23 AM
3	91.20	26.06mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 5:13:35 AM
4	93.47	26.71mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 5:15:42 AM
5	94.09	26.89mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 5:17:48 AM

Mean Area 92.24
Mean Conc. 26.36mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

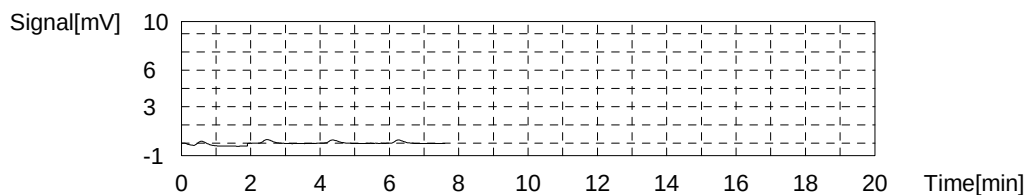
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.01510mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5477	0.02878mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 5:26:19 AM
2	0.5468	0.02852mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 5:28:23 AM
3	0.4476	0.00004mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 5:30:27 AM
4	0.4582	0.00308mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 5:32:31 AM

Mean Area 0.5001
Mean Conc. 0.01510mg/L



Sample

Sample Name: 280-137173-B-3
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

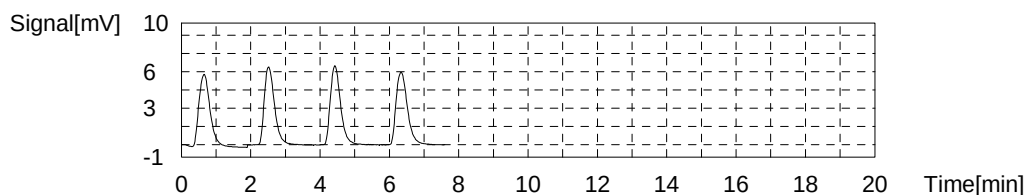
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.704mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.18	3.656mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 5:41:03 AM
2	13.14	3.645mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 5:43:07 AM
3	13.40	3.719mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 5:45:11 AM
4	13.67	3.797mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 5:47:15 AM

Mean Area 13.35
Mean Conc. 3.704mg/L



Sample

Sample Name: 280-137257-B-1
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

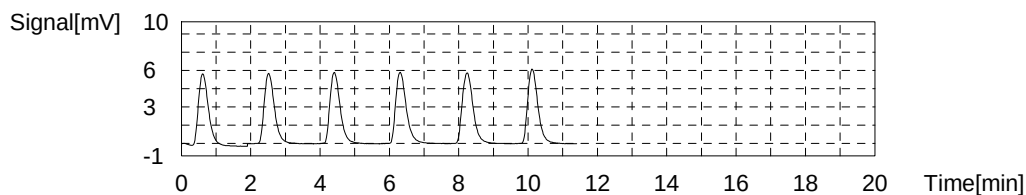
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.436mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.73	3.240mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 5:55:47 AM
2	11.76	3.248mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 5:57:51 AM
3	12.03	3.326mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 5:59:55 AM
4	12.44	3.444mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 6:01:59 AM
5	12.61	3.492mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 6:04:03 AM
6	12.58	3.484mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 6:06:07 AM

Mean Area 12.42
Mean Conc. 3.436mg/L



Sample

Sample Name: 280-137257-B-2
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

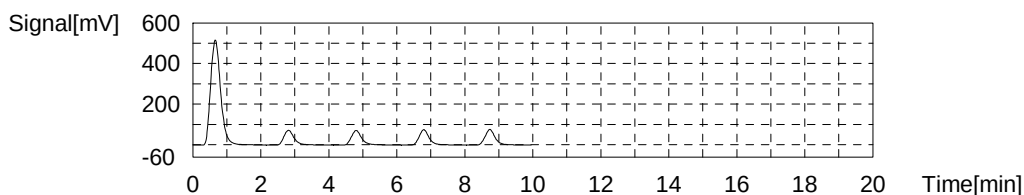
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	2.000	NPOC:611.1mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1069	613.7mg/L	50uL	1	R	TOC3.2020_06_11_17_47_35.cal	6/12/2020 6:14:47 AM
2	150.6	603.6mg/L	50uL	7		TOC3.2020_06_11_17_47_35.cal	6/12/2020 6:22:23 AM
3	151.0	605.2mg/L	50uL	7		TOC3.2020_06_11_17_47_35.cal	6/12/2020 6:24:32 AM
4	151.9	608.9mg/L	50uL	7		TOC3.2020_06_11_17_47_35.cal	6/12/2020 6:26:38 AM
5	156.3	626.5mg/L	50uL	7		TOC3.2020_06_11_17_47_35.cal	6/12/2020 6:28:42 AM

Mean Area 152.4
Mean Conc. 611.1mg/L



Sample

Sample Name: 280-137257-B-3
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

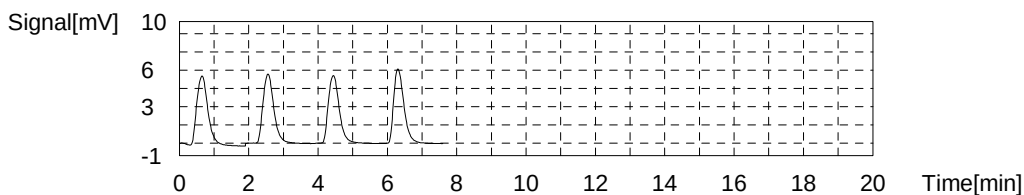
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.443mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.59	3.487mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 6:37:14 AM
2	12.33	3.412mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 6:39:18 AM
3	12.19	3.372mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 6:41:22 AM
4	12.64	3.501mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 6:43:26 AM

Mean Area 12.44
Mean Conc. 3.443mg/L



Sample

Sample Name: 280-137257-B-4
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

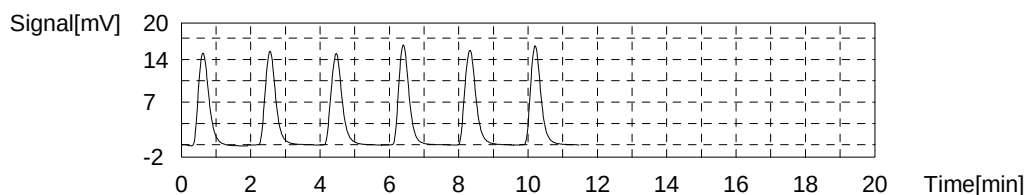
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.711mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	32.77	9.281mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 6:51:58 AM
2	32.63	9.241mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 6:54:02 AM
3	33.58	9.514mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 6:56:10 AM
4	34.31	9.724mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 6:58:14 AM
5	35.02	9.927mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 7:00:18 AM
6	34.16	9.681mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 7:02:22 AM

Mean Area 34.27
Mean Conc. 9.711mg/L



Sample

Sample Name: ms 280-137257-B-4
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

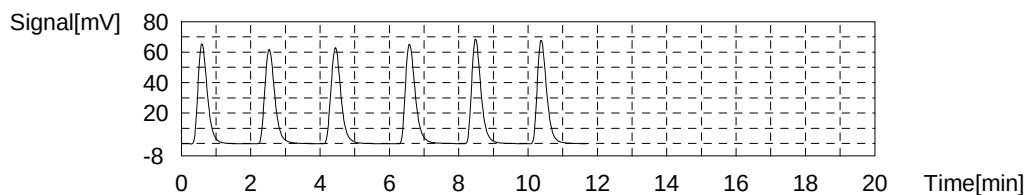
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:37.17mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	124.6	35.65mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 7:10:47 AM
2	125.3	35.85mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 7:12:51 AM
3	128.3	36.71mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 7:15:12 AM
4	130.6	37.37mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 7:17:16 AM
5	130.9	37.46mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 7:19:20 AM
6	129.8	37.14mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 7:21:24 AM

Mean Area 129.9
Mean Conc. 37.17mg/L



Sample

Sample Name: msd 280-137257-B-4
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

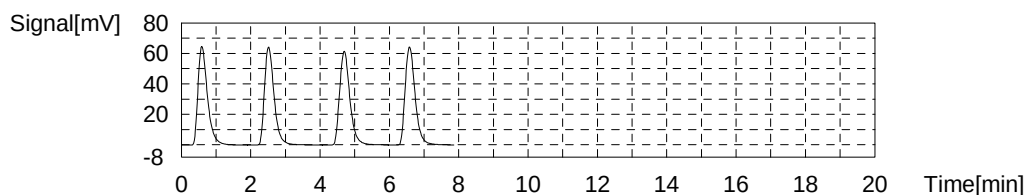
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:36.25mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	125.2	35.82mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 7:29:49 AM
2	124.6	35.65mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 7:32:08 AM
3	127.3	36.43mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 7:34:12 AM
4	129.6	37.09mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 7:36:16 AM

Mean Area 126.7
Mean Conc. 36.25mg/L



Sample

Sample Name: 280-137360-A-2
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

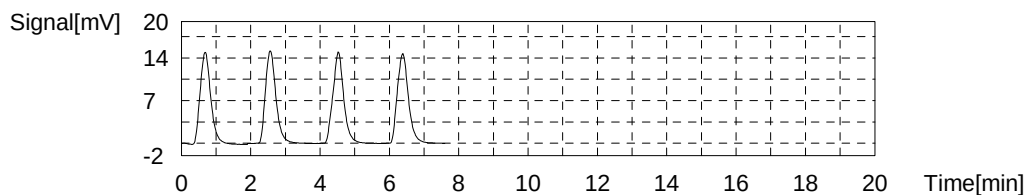
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.238mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	32.50	9.204mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 7:44:48 AM
2	32.10	9.089mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 7:46:52 AM
3	32.73	9.270mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 7:48:56 AM
4	33.15	9.390mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 7:51:00 AM

Mean Area 32.62
Mean Conc. 9.238mg/L



Sample

Sample Name: 280-137172-B-1
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

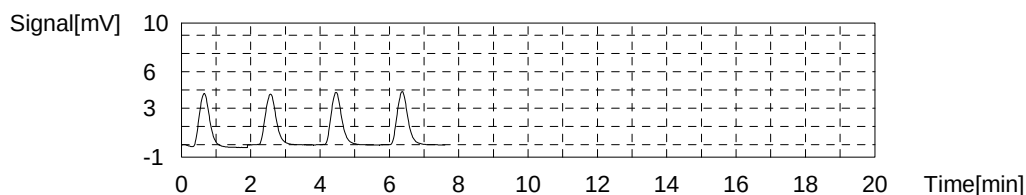
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.504mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.150	2.499mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 7:59:32 AM
2	9.033	2.465mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 8:01:36 AM
3	9.144	2.497mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 8:03:40 AM
4	9.337	2.553mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 8:05:44 AM

Mean Area 9.166
Mean Conc. 2.504mg/L



Sample

Sample Name: 280-137172-B-2
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

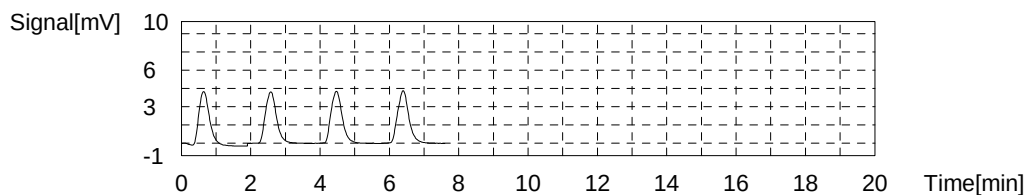
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.594mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.368	2.562mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 8:14:16 AM
2	9.330	2.551mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 8:16:20 AM
3	9.580	2.622mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 8:18:24 AM
4	9.640	2.640mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 8:20:28 AM

Mean Area 9.479
Mean Conc. 2.594mg/L



Sample

Sample Name: ccv
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

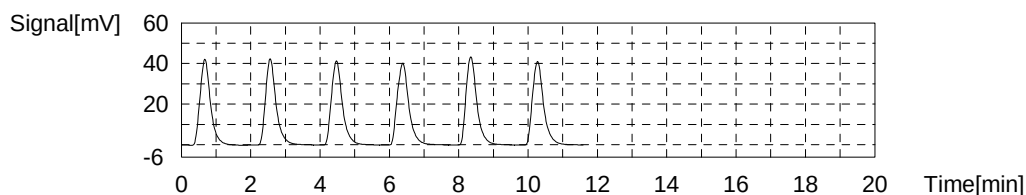
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.66mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	89.87	25.68mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 8:29:00 AM
2	89.83	25.67mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 8:31:04 AM
3	91.77	26.22mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 8:33:08 AM
4	94.53	27.02mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 8:35:18 AM
5	94.19	26.92mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 8:37:22 AM
6	92.71	26.49mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 8:39:31 AM

Mean Area 93.30
Mean Conc. 26.66mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

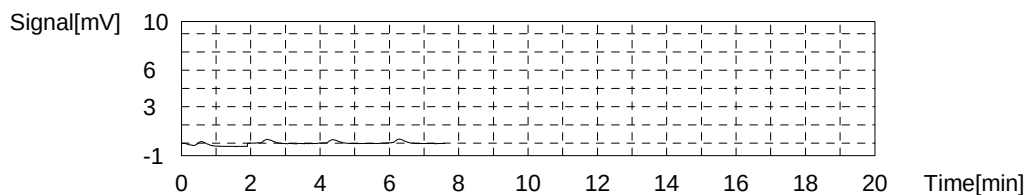
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.02262mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5020	0.01566mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 8:47:56 AM
2	0.5398	0.02651mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 8:50:00 AM
3	0.5105	0.01810mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 8:52:04 AM
4	0.5527	0.03021mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 8:54:08 AM

Mean Area 0.5263
Mean Conc. 0.02262mg/L



Sample

Sample Name: 280-137172-B-3
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

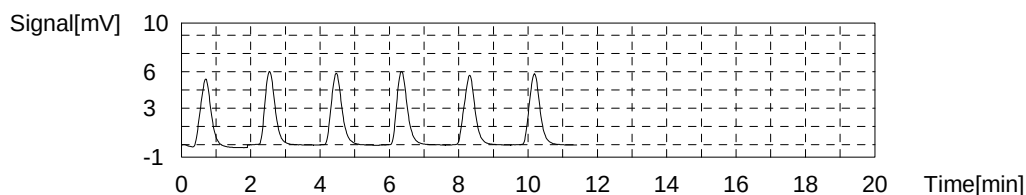
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.488mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.98	3.312mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 9:02:40 AM
2	12.12	3.352mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 9:04:44 AM
3	12.68	3.513mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 9:06:48 AM
4	12.77	3.538mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 9:08:52 AM
5	12.45	3.447mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 9:10:56 AM
6	12.48	3.455mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 9:13:00 AM

Mean Area 12.60
Mean Conc. 3.488mg/L



Sample

Sample Name: 280-137172-B-4
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

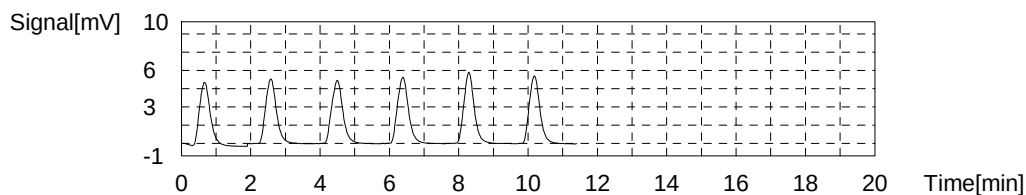
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.279mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.24	3.099mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 9:21:25 AM
2	11.46	3.162mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 9:23:29 AM
3	11.59	3.200mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 9:25:33 AM
4	11.98	3.312mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 9:27:37 AM
5	12.05	3.332mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 9:29:41 AM
6	11.84	3.271mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 9:31:45 AM

Mean Area 11.87
Mean Conc. 3.279mg/L



Sample

Sample Name: 280-137172-B-5
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

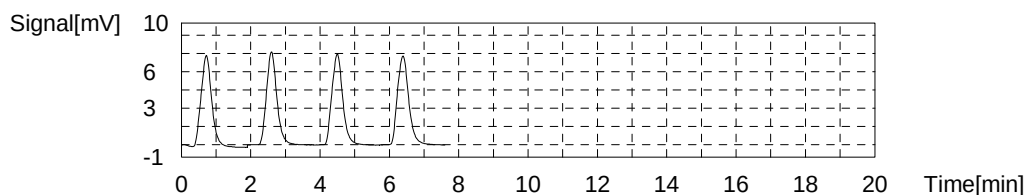
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.515mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	15.94	4.449mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 9:40:11 AM
2	15.91	4.440mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 9:42:15 AM
3	16.29	4.549mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 9:44:19 AM
4	16.54	4.621mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 9:46:23 AM

Mean Area 16.17
Mean Conc. 4.515mg/L



Sample

Sample Name: 280-137172-B-6
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

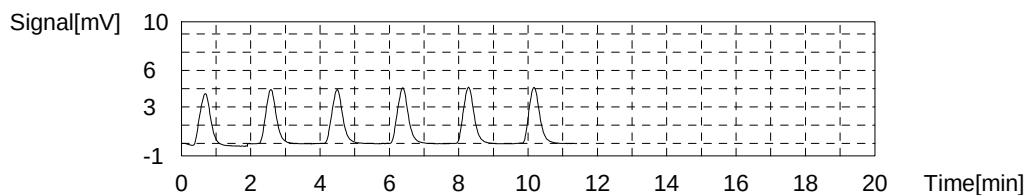
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.700mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.165	2.503mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 9:54:56 AM
2	9.353	2.557mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 9:57:00 AM
3	9.599	2.628mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 9:59:04 AM
4	9.965	2.733mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 10:01:08 AM
5	9.989	2.740mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 10:03:12 AM
6	9.848	2.699mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 10:05:16 AM

Mean Area 9.850
Mean Conc. 2.700mg/L



Sample

Sample Name: 280-137172-B-7
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

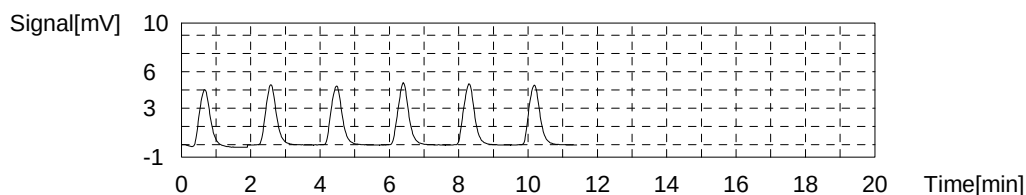
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.981mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.31	2.832mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 10:13:42 AM
2	10.50	2.887mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 10:15:46 AM
3	10.63	2.924mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 10:17:50 AM
4	10.91	3.004mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 10:19:54 AM
5	10.95	3.016mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 10:21:58 AM
6	10.83	2.981mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 10:24:02 AM

Mean Area 10.83
Mean Conc. 2.981mg/L



Sample

Sample Name: 280-137172-B-8
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

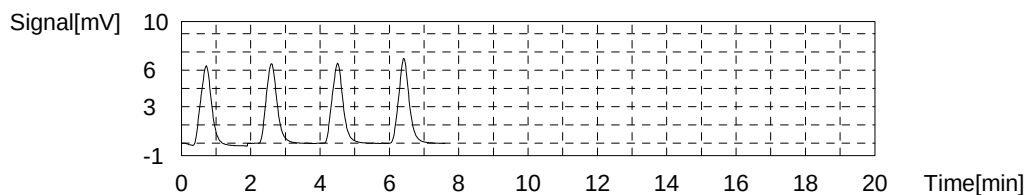
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.037mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.32	3.983mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 10:32:28 AM
2	14.30	3.978mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 10:34:32 AM
3	14.56	4.052mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 10:36:36 AM
4	14.84	4.133mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 10:38:40 AM

Mean Area 14.50
Mean Conc. 4.037mg/L



Sample

Sample Name: lcs
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

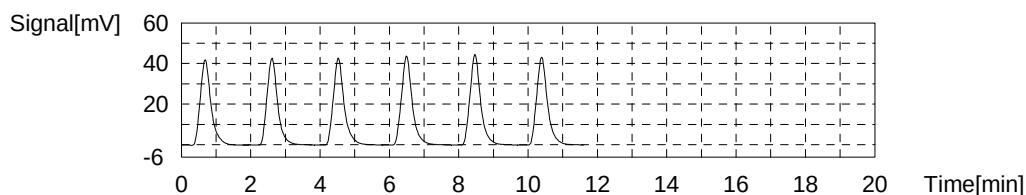
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.07mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	91.18	26.05mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 10:47:15 AM
2	90.99	26.00mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 10:49:19 AM
3	93.20	26.63mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 10:51:26 AM
4	95.38	27.26mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 10:53:35 AM
5	95.86	27.40mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 10:55:41 AM
6	94.50	27.01mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 10:57:45 AM

Mean Area 94.73
Mean Conc. 27.07mg/L



Sample

Sample Name: mb
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

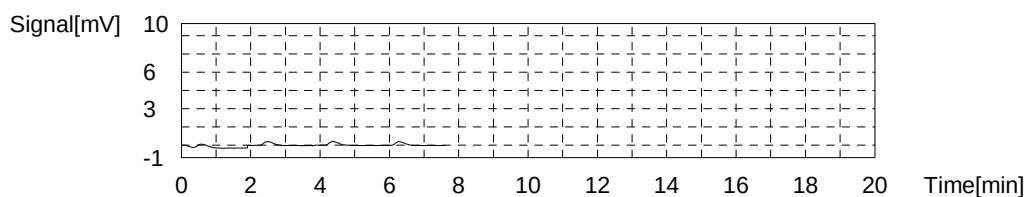
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.02882mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5128	0.01876mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 11:06:11 AM
2	0.5950	0.04236mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 11:08:15 AM
3	0.5475	0.02872mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 11:10:19 AM
4	0.5361	0.02545mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 11:12:23 AM

Mean Area 0.5478
Mean Conc. 0.02882mg/L



Sample

Sample Name: tic
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

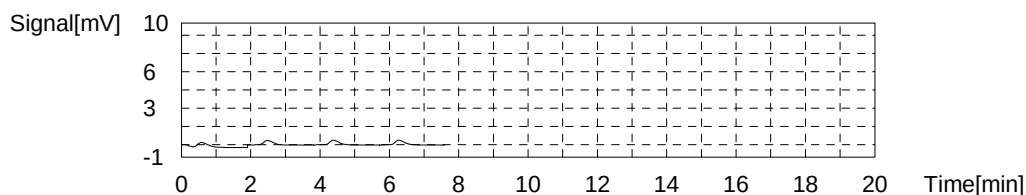
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06648mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6708	0.06413mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 11:20:56 AM
2	0.6742	0.06510mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 11:23:00 AM
3	0.6765	0.06576mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 11:25:04 AM
4	0.6945	0.07093mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 11:27:08 AM

Mean Area 0.6790
Mean Conc. 0.06648mg/L



Sample

Sample Name: 280-137172-B-9
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

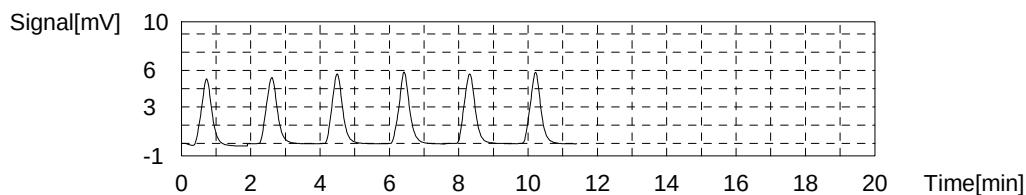
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.429mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.56	3.191mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 11:35:41 AM
2	11.99	3.314mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 11:37:45 AM
3	12.14	3.357mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 11:39:49 AM
4	12.53	3.469mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 11:41:53 AM
5	12.49	3.458mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 11:43:57 AM
6	12.39	3.429mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 11:46:01 AM

Mean Area 12.39
Mean Conc. 3.429mg/L



Sample

Sample Name: ccv
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

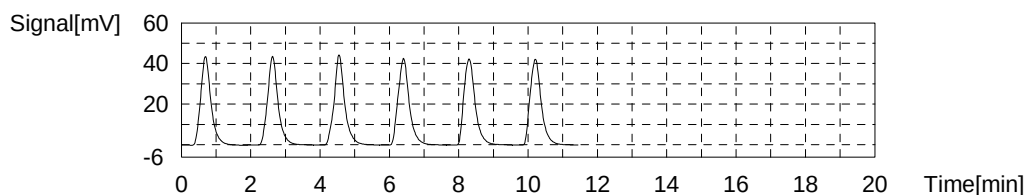
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.25mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	91.46	26.13mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 11:54:27 AM
2	91.86	26.25mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 11:56:31 AM
3	93.93	26.84mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 11:58:35 AM
4	96.26	27.51mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:00:41 PM
5	96.03	27.45mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:02:45 PM
6	95.23	27.22mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:04:49 PM

Mean Area 95.36
Mean Conc. 27.25mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

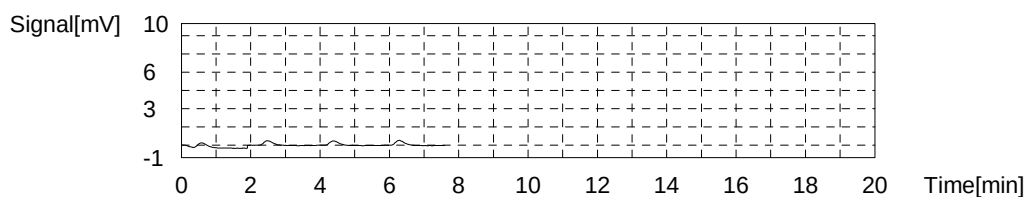
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06047mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6195	0.04940mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:13:15 PM
2	0.6789	0.06645mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:15:19 PM
3	0.6441	0.05646mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:17:23 PM
4	0.6898	0.06958mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:19:27 PM

Mean Area 0.6581
Mean Conc. 0.06047mg/L



Sample

Sample Name: ms 280-137172-B-9
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

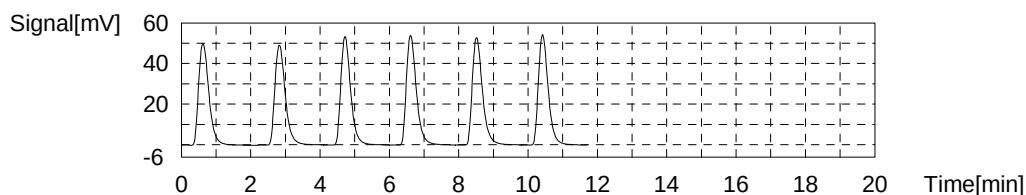
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:30.81mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	104.0	29.74mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:28:18 PM
2	103.5	29.59mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:30:22 PM
3	105.8	30.25mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:32:26 PM
4	108.4	31.00mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:34:30 PM
5	109.2	31.23mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:36:34 PM
6	107.6	30.77mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:38:38 PM

Mean Area 107.8
Mean Conc. 30.81mg/L



Sample

Sample Name: msd 280-137172-B-9
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

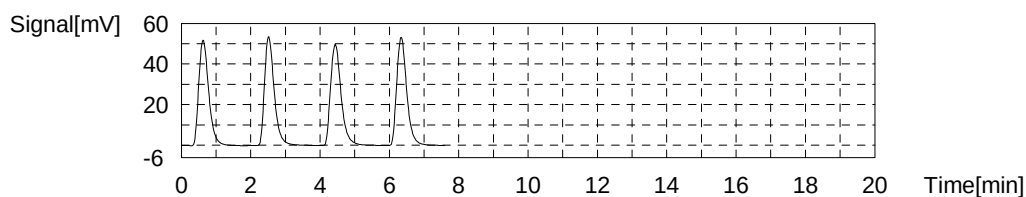
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:30.32mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	104.6	29.91mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:47:04 PM
2	104.7	29.94mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:49:08 PM
3	106.5	30.45mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:51:12 PM
4	108.4	31.00mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 12:53:16 PM

Mean Area 106.1
Mean Conc. 30.32mg/L



Sample

Sample Name: 280-137172-B-10
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

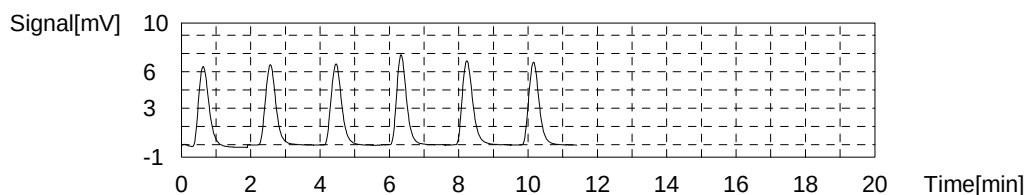
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.037mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.75	3.820mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:01:49 PM
2	13.89	3.860mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:03:53 PM
3	14.31	3.981mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:05:57 PM
4	14.66	4.081mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:08:01 PM
5	14.77	4.113mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:10:05 PM
6	14.28	3.972mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:12:09 PM

Mean Area 14.51
Mean Conc. 4.037mg/L



Sample

Sample Name: 280-137172-B-11
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

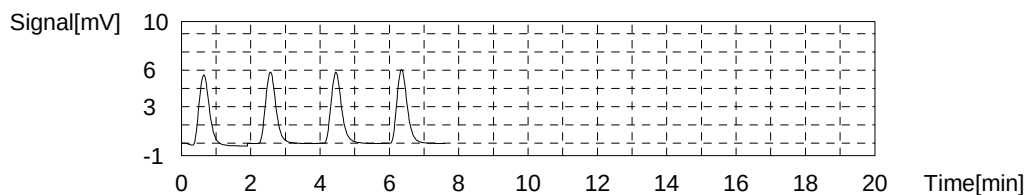
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.403mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.00	3.317mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:20:35 PM
2	12.26	3.392mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:22:39 PM
3	12.36	3.421mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:24:43 PM
4	12.57	3.481mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:26:47 PM

Mean Area 12.30
Mean Conc. 3.403mg/L



Sample

Sample Name: 280-137172-B-12
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

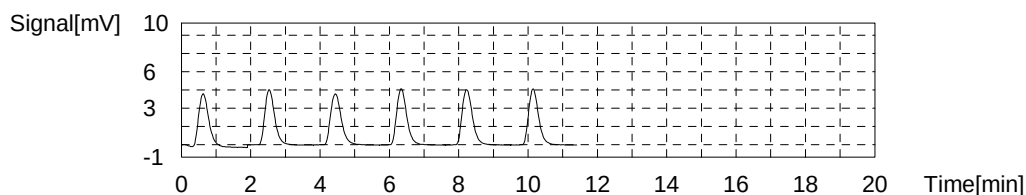
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.532mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.845	2.411mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:35:20 PM
2	8.881	2.422mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:37:24 PM
3	9.076	2.478mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:39:28 PM
4	9.384	2.566mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:41:32 PM
5	9.390	2.568mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:43:36 PM
6	9.204	2.514mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:45:40 PM

Mean Area 9.264
Mean Conc. 2.532mg/L



Sample

Sample Name: 280-137172-B-13
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

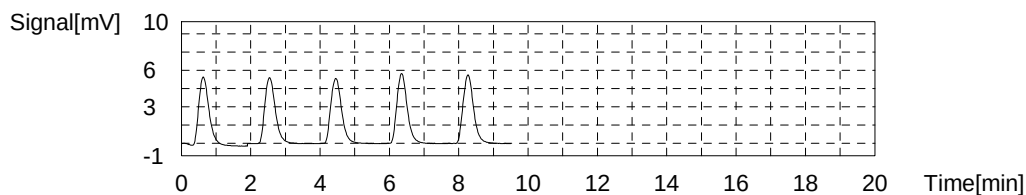
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.212mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.56	3.191mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:54:06 PM
2	11.46	3.162mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:56:10 PM
3	11.60	3.202mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 1:58:14 PM
4	12.00	3.317mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:00:18 PM
5	11.92	3.294mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:02:22 PM

Mean Area 11.64
Mean Conc. 3.212mg/L



Sample

Sample Name: 280-137172-B-14
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

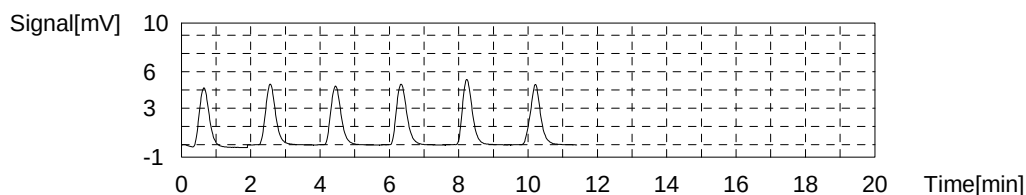
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.829mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.602	2.629mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:10:54 PM
2	10.01	2.746mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:12:58 PM
3	9.948	2.728mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:15:02 PM
4	10.49	2.884mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:17:06 PM
5	10.51	2.889mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:19:10 PM
6	10.19	2.798mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:21:14 PM

Mean Area 10.30
Mean Conc. 2.829mg/L



Sample

Sample Name: 280-137172-B-15
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

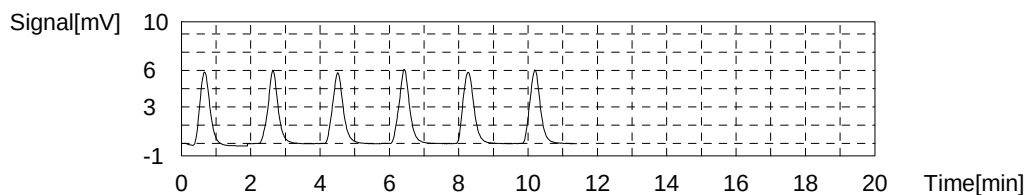
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.523mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.20	3.375mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:29:40 PM
2	12.15	3.360mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:31:44 PM
3	12.45	3.447mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:33:48 PM
4	12.82	3.553mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:35:52 PM
5	12.86	3.564mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:37:56 PM
6	12.73	3.527mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:40:00 PM

Mean Area 12.72
Mean Conc. 3.523mg/L



Sample

Sample Name: 280-137172-B-16
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

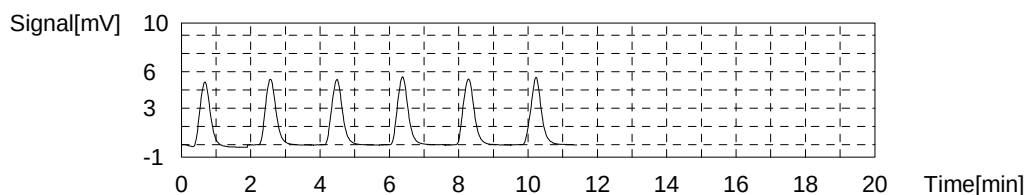
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.265mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.09	3.056mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:48:27 PM
2	11.45	3.159mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:50:31 PM
3	11.61	3.205mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:52:35 PM
4	11.99	3.314mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:54:39 PM
5	11.94	3.300mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:56:43 PM
6	11.73	3.240mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 2:58:47 PM

Mean Area 11.82
Mean Conc. 3.265mg/L



Sample

Sample Name: ccv
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

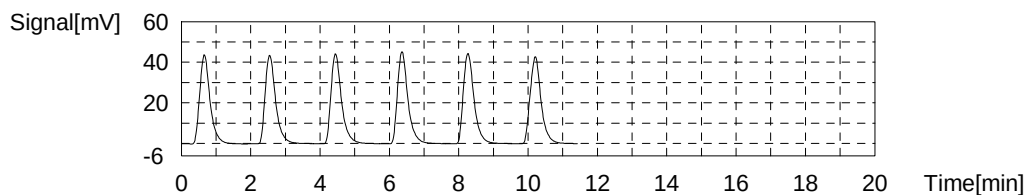
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.24mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	91.81	26.23mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:07:14 PM
2	91.98	26.28mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:09:18 PM
3	94.24	26.93mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:11:23 PM
4	95.85	27.39mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:13:27 PM
5	96.13	27.48mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:15:31 PM
6	95.06	27.17mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:17:35 PM

Mean Area 95.32
Mean Conc. 27.24mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: NPOC.met
Status: Completed
Chk. Result

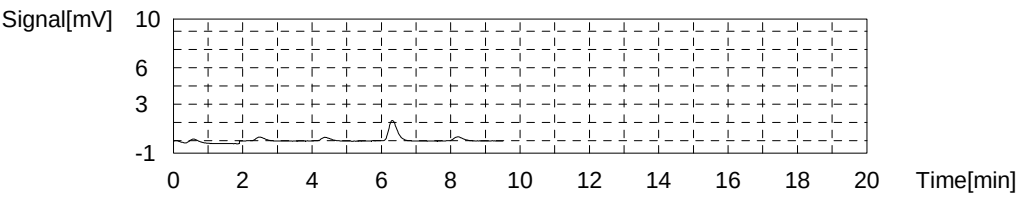
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.02878mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5714	0.03558mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:26:02 PM
2	0.5341	0.02487mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:28:06 PM
3	0.5120	0.01853mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:30:10 PM
4	2.869	0.6953mg/L	50uL	1	E	TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:32:14 PM
5	0.5733	0.03613mg/L	50uL	1		TOC3.2020_06_11_17_47_35.cal	6/12/2020 3:34:18 PM

Mean Area 0.5477
Mean Conc. 0.02878mg/L



9060 DOC
Filtration

	Analysis	Sample Name	Manual	Result	Notes	Status	Date / Time
1*	NPOC	icv	1.000	✓		Defined	
2*	NPOC	icb	1.000	✓		Defined	
3*	NPOC	LCS 280-498352/1-A	1.000	✓		Defined	
4*	NPOC	LCSD 280-498352/2-A	1.000	✓		Defined	
5*	NPOC	MB 280-498352/3-A	1.000	✓		Defined	
6*	NPOC	tic	1.000	✓		Defined	
7*	NPOC	280-136897-C-1-B	1.000	5		Defined	
8*	NPOC	280-136897-C-1-C MS	1.000	5		Defined	
9*	NPOC	280-136897-C-1-D MS	1.000	5		Defined	
10*	NPOC	280-136897-B-1-F DU	1.000	5		Defined	
11*	NPOC	280-136897-C-2-C	1.000	5		Defined	
12*	NPOC	280-136897-C-3-C	1.000	5		Defined	
13*	NPOC	280-136897-C-4-C	1.000	5		Defined	
14*	NPOC	280-137084-D-1-B	1.000	6		Defined	
15*	NPOC	ccv	1.000	✓		Defined	
16*	NPOC	ccb	1.000	✓		Defined	
17*	NPOC	280-137084-D-2-B	1.000	6		Defined	
18*	NPOC	280-137084-D-3-B	1.000	6	2x Dil color	Defined	
19*	NPOC	280-137084-D-4-D	1.000	6		Defined	
20*	NPOC	280-137084-D-5-B	1.000	6	2x Dil color	Defined	
21*	NPOC	280-137048-D-1-B	1.000	6		Defined	
22*	NPOC	280-137048-D-1-C MS	1.000	6		Defined	
23*	NPOC	280-137048-D-1-D MS	1.000	6		Defined	
24*	NPOC	280-137048-D-2-B	1.000	6	2x Dil color	Defined	
25*	NPOC	lcs	1.000	✓		Defined	
26*	NPOC	lcsd	1.000	✓		Defined	
27*	NPOC	ccv	1.000	✓		Defined	
28*	NPOC	ccb	1.000	✓		Defined	
29*	NPOC	mb	1.000	✓		Defined	
30*	NPOC	tic	1.000	✓		Defined	
31*	NPOC	280-137199-B-8	1.000	✓		Defined	
32*	NPOC	ms 280-137199-B-8	1.000	✓		Defined	
33*	NPOC	msd 280-137199-B-8	1.000	✓		Defined	
34*	NPOC	280-137199-C-2	1.000	✓		Defined	
35*	NPOC	280-137199-B-4	1.000	✓		Defined	
36*	NPOC	280-137199-C-6	1.000	✓		Defined	
37*	NPOC	280-137173-B-1	1.000	✓		Defined	
38*	NPOC	280-137173-B-2	1.000	✓		Defined	
39*	NPOC	ccv	1.000	✓		Defined	
40*	NPOC	ccb	1.000	✓		Defined	
41*	NPOC	280-137173-B-3	1.000	✓		Defined	
42*	NPOC	280-137257-B-1	1.000	✓		Defined	
43*	NPOC	280-137257-B-2	1.000	✓	2x Dil cloudy	Defined	
44*	NPOC	280-137257-B-3	1.000	✓		Defined	
45*	NPOC	280-137257-B-4	1.000	✓		Defined	
46*	NPOC	ms 280-137257-B-4	1.000	✓		Defined	
47*	NPOC	msd 280-137257-B-4	1.000	✓		Defined	
48*	NPOC	280-137360-A-2	1.000	✓		Defined	
49*	NPOC	280-137172-B-1	1.000	✓		Defined	
50*	NPOC	280-137172-B-2	1.000	✓		Defined	
51*	NPOC	ccv	1.000	✓		Defined	

9060

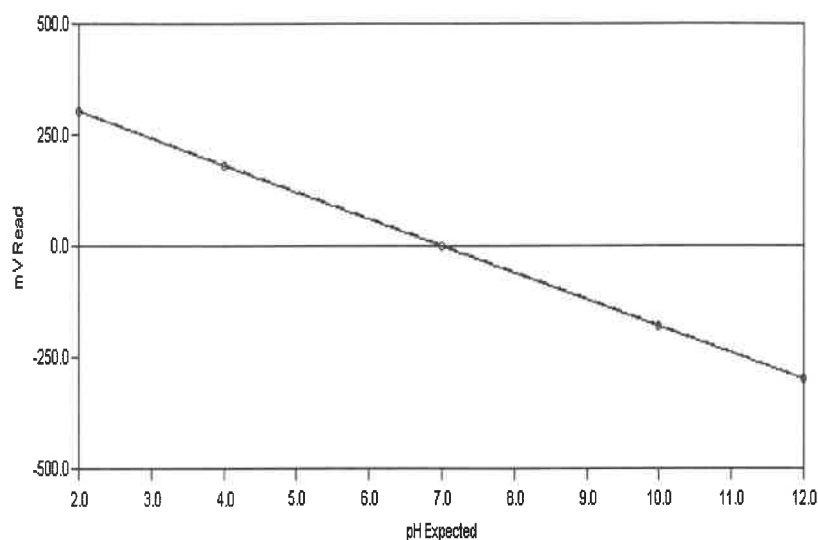
	Analysis	Sample Name	Manual	Result	Notes	Status	Date / Time
52*	NPOC	ccb	1.000	✓		Defined	
53*	NPOC	280-137172-B-3	1.000	✓		Defined	
54*	NPOC	280-137172-B-4	1.000	✓		Defined	
55*	NPOC	280-137172-B-5	1.000	✓		Defined	
56*	NPOC	280-137172-B-6	1.000	✓		Defined	
57*	NPOC	280-137172-B-7	1.000	✓		Defined	
58*	NPOC	280-137172-B-8	1.000	✓		Defined	
59*	NPOC	lcs	1.000	✓		Defined	
60*	NPOC	mb	1.000	✓		Defined	
61*	NPOC	tic	1.000	✓		Defined	
62*	NPOC	280-137172-B-9	1.000	✓		Defined	
63*	NPOC	ccv	1.000	✓		Defined	
64*	NPOC	ccb	1.000	✓		Defined	
65*	NPOC	ms 280-137172-B-9	1.000	✓		Defined	
66*	NPOC	msd 280-137172-B-9	1.000	✓		Defined	
67*	NPOC	280-137172-B-10	1.000	✓		Defined	
68*	NPOC	280-137172-B-11	1.000	✓		Defined	
69*	NPOC	280-137172-B-12	1.000	✓		Defined	
70*	NPOC	280-137172-B-13	1.000	✓		Defined	
71*	NPOC	280-137172-B-14	1.000	✓		Defined	
72*	NPOC	280-137172-B-15	1.000	✓		Defined	
73*	NPOC	280-137172-B-16	1.000	✓		Defined	
74*	NPOC	ccv	1.000	✓		Defined	
75*	NPOC	ccb	1.000	✓		Defined	



MANTECH INC. Calibration Report

Report Date: 6/2/2020 : 8:34 AM

Calibration Record # 705



Calibration Settings

Calibration ID	PH	Date	6/2/2020
Channel	1	Time	8:29 AM
Probe Type	pH	Temperature	296.14 K 22.99 C
Probe ID	PH ELECTRODE	Analysis Type	Single Line Fit

Calibration Results

Slope	-60.151	CorrCoeff	1.0000
Intercept	1.342	Equation:	$Y = (-60.151)X + (1.342)$

Calibration Validity True Operator

	Result	Minimum	Maximum
Slope	-60.151	-65.00	-54.00
Intercept	1.342	-100.00	100.00
Correlation Coefficient	1.0000	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	302.49
	4.00	181.51
	7.00	0.85
	10.00	-178.71
	12.00	-299.43

Test America

Analyst: _____

Water Analysis Report

Run Number			Order Number										2722									
SampleID	RunDate	RunTime	Temp	cond (uS)	pH	pH2	pH3	Acid	alk-bppm	talk-bppm	bcarb-bppm	carb-bppm	hydr-bppm	(mL) @ 8.3	(mL) @ 4.5	(mL) @ 4.2	Conc (N)					
RINSE	6/2/2020	9:00 AM	23.28	-1.00	5.53	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00					
INITIAL CHECK	6/2/2020	9:06 AM	23.06	-1.00	10.63	-1.00	-1.00	-1.00	126.50	204.15	.00	155.30	48.85	1.26	2.04	-1.00	.02					
BUFFER 7	6/2/2020	9:08 AM	22.84	-1.00	7.01	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00					
LCS	6/2/2020	9:13 AM	22.86	-1.00	10.63	-1.00	-1.00	-1.00	126.31	205.91	.00	159.19	46.71	1.26	2.06	-1.00	.02					
MB	6/2/2020	9:18 AM	22.89	-1.00	7.81	-1.00	-1.00	-1.00	.00	1.61	1.61	.00	.00	.00	.03	.04	.02					
280-137098-f-2	6/2/2020	9:23 AM	22.14	-1.00	8.05	-1.00	-1.00	-1.00	.00	195.56	195.56	.00	.00	.00	1.96	-1.00	.02					
du 280-137098-f-2	6/2/2020	9:29 AM	21.89	-1.00	8.17	-1.00	-1.00	-1.00	.00	199.17	199.17	.00	.00	.00	1.99	-1.00	.02					
280-137021-e-6	6/2/2020	9:35 AM	21.93	-1.00	7.06	-1.00	-1.00	-1.00	.00	219.02	219.02	.00	.00	.00	2.19	-1.00	.02					
280-136985-a-3	6/2/2020	9:39 AM	22.13	-1.00	6.38	-1.00	-1.00	-1.00	.00	55.38	55.38	.00	.00	.00	.55	-1.00	.02					
280-137028-a-4	6/2/2020	9:44 AM	22.31	-1.00	7.28	-1.00	-1.00	-1.00	.00	158.75	158.75	.00	.00	.00	1.59	-1.00	.02					
280-137075-a-1	6/2/2020	9:50 AM	22.75	-1.00	7.49	-1.00	-1.00	-1.00	.00	213.18	213.18	.00	.00	.00	2.13	-1.00	.02					
280-137075-a-2	6/2/2020	9:56 AM	22.78	-1.00	7.52	-1.00	-1.00	-1.00	.00	178.23	178.23	.00	.00	.00	1.78	-1.00	.02					
280-137086-b-1	6/2/2020	10:03 AM	22.75	-1.00	7.86	-1.00	-1.00	-1.00	.00	427.08	427.08	.00	.00	.00	4.27	-1.00	.02					
280-137086-b-2	6/2/2020	10:09 AM	22.92	-1.00	7.75	-1.00	-1.00	-1.00	.00	293.22	293.22	.00	.00	.00	2.93	-1.00	.02					
280-137086-b-4	6/2/2020	10:13 AM	23.01	-1.00	6.53	-1.00	-1.00	-1.00	.00	2.51	2.51	.00	.00	.00	.04	.05	.02					
CCV	6/2/2020	10:20 AM	23.06	-1.00	10.60	-1.00	-1.00	-1.00	125.31	203.78	.00	156.93	46.84	1.25	2.04	-1.00	.02					
CGB	6/2/2020	10:24 AM	23.15	-1.00	7.66	-1.00	-1.00	-1.00	.00	1.79	1.79	.00	.00	.00	.03	.04	.02					
280-137048-f-1	6/2/2020	10:31 AM	23.07	-1.00	6.95	-1.00	-1.00	-1.00	.00	390.58	390.58	.00	.00	.00	3.91	-1.00	.02					
280-137048-f-2	6/2/2020	10:39 AM	23.12	-1.00	6.69	-1.00	-1.00	-1.00	.00	465.95	465.95	.00	.00	.00	4.66	-1.00	.02					
280-137084-f-5	6/2/2020	10:46 AM	23.17	-1.00	6.73	-1.00	-1.00	-1.00	.00	485.52	485.52	.00	.00	.00	4.86	-1.00	.02					
280-137084-f-4	6/2/2020	10:53 AM	23.15	-1.00	6.97	-1.00	-1.00	-1.00	.00	409.86	409.86	.00	.00	.00	4.10	-1.00	.02					
280-137084-f-3	6/2/2020	11:00 AM	23.22	-1.00	6.73	-1.00	-1.00	-1.00	.00	499.68	499.68	.00	.00	.00	5.00	-1.00	.02					
280-137084-f-2	6/2/2020	11:08 AM	23.47	-1.00	7.09	-1.00	-1.00	-1.00	.00	480.37	480.37	.00	.00	.00	4.80	-1.00	.02					
280-137084-f-1	6/2/2020	11:15 AM	23.47	-1.00	6.82	-1.00	-1.00	-1.00	.00	439.02	439.02	.00	.00	.00	4.39	-1.00	.02					
CCV	6/2/2020	11:21 AM	23.39	-1.00	10.49	-1.00	-1.00	-1.00	119.79	207.03	.00	174.48	32.55	1.20	2.07	-1.00	.02					
CCB	6/2/2020	11:26 AM	23.36	-1.00	7.44	-1.00	-1.00	-1.00	.00	1.31	1.31	.00	.00	.00	.03	.05	.02					

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Shipping and Receiving Documents

CHAIN OF CUSTODY RECORD

Page 1 of 1

AECOM
12120 Shawnee Plaza Suite 300, Omaha, NE 68154 (402) 334-8181 Fax (402) 334-1984

Project Name: CHAAP 2019				AECOM Project Number: 60565355				Bill to: Brice Engineering							
Project Location: Grand Island, Nebraska				AECOM Project Manager: Dean Converse				Remarks: standard TAT							
Sampler(s): RH															
Date	Sample	Time	Type		Matrix	Containers		Analytical Parameters							
			Comp	Grab		No.	Type	Explosives - MNX (8330A)	TKN (351.2), NH ₄ (350.1), NO ₂ -NO ₃ (353.2)	SO ₄ (9056A), Alkalinity (2320B)	Sulfide (9034)	DOC (9060A)*	Methane (RSK 175)		
5-28-20	1045		X		AQ	9	A,B,C,D,E,F	X	X	X	X	X	X	X	6°C
5-28-20	1225		X		AQ	9	A,B,C,D,E,F	X	X	X	X	X	X	X	6°C
															
															
															
															
															
Relinquished by:				Date				Time				Shipping Details			
Received by:				5-28-20				1700				Federal Express			
Relinquished by:				5-29-20				0835				Airbill Number: 815659227597			
Received for Laboratory by:												Lab Address: TestAmerica Lab, Inc. Attn: Patrick McEntee 4955 Yarrow St. Arvada, CO 80002 (303) 736-0107			

White copy - Laboratory Yellow copy - Laboratory Pink copy - Sampler

0.60C IN 80.6 IN 5-29-20

2019533

ORIGIN ID:GRIA

ACT: MAY 20 20 LB
CAD: 2110
DIMS: 25x14x14 IN

PLE RECEIVING
ST AMERICA DENVER
S YARROW ST

VADA CO 80002-4517

(US)

999-9999

REF:

DEPT:



FedEx
Express



J7011200474024

IK# 8156 5922 7597
667

FRI - 29 MAY 10:30A
PRIORITY OVERNIGHT

XH WHHA

80002
CO-US DEN



280-137048 Waybill

Login Sample Receipt Checklist

Client: Brice Environmental Services, Corp

Job Number: 280-137048-1

Login Number: 137048
List Number: 1
Creator: Lubin, Julius C

List Source: Eurofins TestAmerica, Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	