

DATA PACKAGE

SUB - DATA

PROJECT NAME : CTO WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : P4935

ATTENTION : Ernie Wu



Cover Page

Order ID : P4935

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

P4935-01
P4935-02
P4935-03
P4935-04
P4935-05
P4935-06
P4935-07
P4935-08
P4935-09
P4935-10
P4935-11

Client Sample Number

BPOW6-11-20241118
BPOW6-7-20241118
DUP-01-20241118
BPOW6-10-20241119
BPOW6-10-20241119MS
BPOW6-10-20241119MSD
BPOW6-9-20241119
FB-01-20241119
BPOW6-8-20241119
RB-01-20241119
DUP-02-20241119

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 4:11 pm, Dec 02, 2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



ANALYTICAL REPORT

PREPARED FOR

Attn: Yazmeen Gomez
Chemtech Consulting Group Inc.
284 Sheffield Street
Mountainside NJ 07092
Generated 11/26/2024 4:43 PM

JOB DESCRIPTION

1,4 Dioxane

JOB NUMBER

810-129010-1

Eurofins Eaton Analytical South Bend

Job Notes

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

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

Authorization



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Authorized for release by
Nathan Trowbridge, Manager of Project Management
Nathan.Trowbridge@et.eurofinsus.com
574 233-4777

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Definitions/Glossary

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-129010-1

Glossary

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

Job Narrative
810-129010-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/21/2024 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C.

GC/MS Semi VOA

Method 522_PREC: The method blank (MBL) associated with preparation batch 810-124065 and analytical batch 810-124118 contained 1,4-Dioxane @ 0.031 ug/L, greater than one-third the reporting limit (RL) of 0.07 ug/L. Reanalysis of the MBL confirmed the failure.

BPOW6-9-20241119 (810-129010-5)

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

Detection Summary

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-129010-1

Client Sample ID: BPOW6-11-20241118

Lab Sample ID: 810-129010-1

No Detections.

Client Sample ID: BPOW6-7-20241118

Lab Sample ID: 810-129010-2

No Detections.

Client Sample ID: DUP-01-20241118

Lab Sample ID: 810-129010-3

No Detections.

Client Sample ID: BPOW6-10-20241119

Lab Sample ID: 810-129010-4

No Detections.

Client Sample ID: BPOW6-9-20241119

Lab Sample ID: 810-129010-5

Analyte	Result	Qualifier	RL	Unit	Dil	Fac	D	Method	Prep Type
1,4-Dioxane	0.10		0.070	ug/L		1		522	Total/NA

Client Sample ID: FB-01-20241119

Lab Sample ID: 810-129010-6

No Detections.

Client Sample ID: BPOW6-8-20241119

Lab Sample ID: 810-129010-7

No Detections.

Client Sample ID: RB-01-20241119

Lab Sample ID: 810-129010-8

No Detections.

Client Sample ID: DUP-02-20241119

Lab Sample ID: 810-129010-9

No Detections.

Client Sample Results

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-129010-1

Client Sample ID: BPOW6-11-20241118

Lab Sample ID: 810-129010-1

Date Collected: 11/18/24 14:15

Matrix: Drinking Water

Date Received: 11/21/24 09:30

Method: EPA 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.070		0.070	ug/L		11/25/24 04:36	11/25/24 13:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	95		70 - 130			11/25/24 04:36	11/25/24 13:43	1

Client Sample ID: BPOW6-7-20241118

Lab Sample ID: 810-129010-2

Date Collected: 11/18/24 16:15

Matrix: Drinking Water

Date Received: 11/21/24 09:30

Method: EPA 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.070		0.070	ug/L		11/25/24 04:36	11/25/24 14:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	95		70 - 130			11/25/24 04:36	11/25/24 14:04	1

Client Sample ID: DUP-01-20241118

Lab Sample ID: 810-129010-3

Date Collected: 11/18/24 12:00

Matrix: Drinking Water

Date Received: 11/21/24 09:30

Method: EPA 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.070		0.070	ug/L		11/25/24 04:36	11/25/24 14:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	95		70 - 130			11/25/24 04:36	11/25/24 14:26	1

Client Sample ID: BPOW6-10-20241119

Lab Sample ID: 810-129010-4

Date Collected: 11/19/24 11:00

Matrix: Drinking Water

Date Received: 11/21/24 09:30

Method: EPA 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.070		0.070	ug/L		11/25/24 04:36	11/25/24 18:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	98		70 - 130			11/25/24 04:36	11/25/24 18:26	1

Client Sample ID: BPOW6-9-20241119

Lab Sample ID: 810-129010-5

Date Collected: 11/19/24 12:55

Matrix: Drinking Water

Date Received: 11/21/24 09:30

Method: EPA 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.10		0.070	ug/L		11/25/24 04:36	11/25/24 14:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	96		70 - 130			11/25/24 04:36	11/25/24 14:48	1

Client Sample Results

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-129010-1

Client Sample ID: FB-01-20241119

Date Collected: 11/19/24 13:30

Date Received: 11/21/24 09:30

Lab Sample ID: 810-129010-6

Matrix: Drinking Water

Method: EPA 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.070		0.070	ug/L		11/25/24 04:36	11/25/24 15:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	96		70 - 130			11/25/24 04:36	11/25/24 15:10	1

Client Sample ID: BPOW6-8-20241119

Date Collected: 11/19/24 15:05

Date Received: 11/21/24 09:30

Lab Sample ID: 810-129010-7

Matrix: Drinking Water

Method: EPA 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.070		0.070	ug/L		11/25/24 04:36	11/25/24 15:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	90		70 - 130			11/25/24 04:36	11/25/24 15:32	1

Client Sample ID: RB-01-20241119

Date Collected: 11/19/24 16:30

Date Received: 11/21/24 09:30

Lab Sample ID: 810-129010-8

Matrix: Drinking Water

Method: EPA 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.070		0.070	ug/L		11/25/24 04:36	11/25/24 15:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	85		70 - 130			11/25/24 04:36	11/25/24 15:53	1

Client Sample ID: DUP-02-20241119

Date Collected: 11/19/24 12:00

Date Received: 11/21/24 09:30

Lab Sample ID: 810-129010-9

Matrix: Drinking Water

Method: EPA 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.070		0.070	ug/L		11/25/24 04:36	11/25/24 16:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	98		70 - 130			11/25/24 04:36	11/25/24 16:15	1

Default Detection Limits

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-129010-1

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Prep: 522

Analyte	RL		Units
1,4-Dioxane	0.070	0.062	ug/L

Surrogate Summary

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-129010-1

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (70-130)
810-129010-1	BPOW6-11-20241118	95
810-129010-2	BPOW6-7-20241118	95
810-129010-3	DUP-01-20241118	95
810-129010-4	BPOW6-10-20241119	98
810-129010-4 MS	BPOW6-10-20241119MS	97
810-129010-4 MSD	BPOW6-10-20241119MSD	94
810-129010-5	BPOW6-9-20241119	96
810-129010-6	FB-01-20241119	96
810-129010-7	BPOW6-8-20241119	90
810-129010-8	RB-01-20241119	85
810-129010-9	DUP-02-20241119	98
LCS 810-124065/3-A	Lab Control Sample	97
LLCS 810-124065/2-A	Lab Control Sample	87
MBL 810-124065/1-A	Method Blank	93

Surrogate Legend

DXE = 1,4-Dioxane-d8 (Surr)

QC Sample Results

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-129010-1

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MBL 810-124065/1-A
Matrix: Drinking Water
Analysis Batch: 124118

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 124065

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.062		0.070	ug/L		11/25/24 04:36	11/25/24 12:37	1
Surrogate	MBL %Recovery	MBL Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	93		70 - 130			11/25/24 04:36	11/25/24 12:37	1

Lab Sample ID: LCS 810-124065/3-A
Matrix: Drinking Water
Analysis Batch: 124118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 124065

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1.00	0.989		ug/L		99	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	97		70 - 130				

Lab Sample ID: LLCS 810-124065/2-A
Matrix: Drinking Water
Analysis Batch: 124118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 124065

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	0.0700	0.0919		ug/L		131	50 - 150
Surrogate	LLCS %Recovery	LLCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	87		70 - 130				

Lab Sample ID: 810-129010-4 MS
Matrix: Drinking Water
Analysis Batch: 124118

Client Sample ID: BPOW6-10-20241119MS
Prep Type: Total/NA
Prep Batch: 124065

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	<0.070		1.00	0.983		ug/L		98	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,4-Dioxane-d8 (Surr)	97		70 - 130						

Lab Sample ID: 810-129010-4 MSD
Matrix: Drinking Water
Analysis Batch: 124118

Client Sample ID: BPOW6-10-20241119MSD
Prep Type: Total/NA
Prep Batch: 124065

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	<0.070		1.00	0.950		ug/L		95	70 - 130	3	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,4-Dioxane-d8 (Surr)	94		70 - 130								

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QC Association Summary

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-129010-1

GC/MS Semi VOA

Prep Batch: 124065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-129010-1	BPOW6-11-20241118	Total/NA	Drinking Water	522	
810-129010-2	BPOW6-7-20241118	Total/NA	Drinking Water	522	
810-129010-3	DUP-01-20241118	Total/NA	Drinking Water	522	
810-129010-4	BPOW6-10-20241119	Total/NA	Drinking Water	522	
810-129010-5	BPOW6-9-20241119	Total/NA	Drinking Water	522	
810-129010-6	FB-01-20241119	Total/NA	Drinking Water	522	
810-129010-7	BPOW6-8-20241119	Total/NA	Drinking Water	522	
810-129010-8	RB-01-20241119	Total/NA	Drinking Water	522	
810-129010-9	DUP-02-20241119	Total/NA	Drinking Water	522	
MBL 810-124065/1-A	Method Blank	Total/NA	Drinking Water	522	
LCS 810-124065/3-A	Lab Control Sample	Total/NA	Drinking Water	522	
LLCS 810-124065/2-A	Lab Control Sample	Total/NA	Drinking Water	522	
810-129010-4 MS	BPOW6-10-20241119MS	Total/NA	Drinking Water	522	
810-129010-4 MSD	BPOW6-10-20241119MSD	Total/NA	Drinking Water	522	

Analysis Batch: 124118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-129010-1	BPOW6-11-20241118	Total/NA	Drinking Water	522	124065
810-129010-2	BPOW6-7-20241118	Total/NA	Drinking Water	522	124065
810-129010-3	DUP-01-20241118	Total/NA	Drinking Water	522	124065
810-129010-4	BPOW6-10-20241119	Total/NA	Drinking Water	522	124065
810-129010-5	BPOW6-9-20241119	Total/NA	Drinking Water	522	124065
810-129010-6	FB-01-20241119	Total/NA	Drinking Water	522	124065
810-129010-7	BPOW6-8-20241119	Total/NA	Drinking Water	522	124065
810-129010-8	RB-01-20241119	Total/NA	Drinking Water	522	124065
810-129010-9	DUP-02-20241119	Total/NA	Drinking Water	522	124065
MBL 810-124065/1-A	Method Blank	Total/NA	Drinking Water	522	124065
LCS 810-124065/3-A	Lab Control Sample	Total/NA	Drinking Water	522	124065
LLCS 810-124065/2-A	Lab Control Sample	Total/NA	Drinking Water	522	124065
810-129010-4 MS	BPOW6-10-20241119MS	Total/NA	Drinking Water	522	124065
810-129010-4 MSD	BPOW6-10-20241119MSD	Total/NA	Drinking Water	522	124065

Lab Chronicle

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-129010-1

Client Sample ID: BPOW6-11-20241118

Lab Sample ID: 810-129010-1

Date Collected: 11/18/24 14:15

Matrix: Drinking Water

Date Received: 11/21/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	522			124065	AM	EA SB	11/25/24 04:36
Total/NA	Analysis	522		1	124118	BC	EA SB	11/25/24 13:43

Client Sample ID: BPOW6-7-20241118

Lab Sample ID: 810-129010-2

Date Collected: 11/18/24 16:15

Matrix: Drinking Water

Date Received: 11/21/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	522			124065	AM	EA SB	11/25/24 04:36
Total/NA	Analysis	522		1	124118	BC	EA SB	11/25/24 14:04

Client Sample ID: DUP-01-20241118

Lab Sample ID: 810-129010-3

Date Collected: 11/18/24 12:00

Matrix: Drinking Water

Date Received: 11/21/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	522			124065	AM	EA SB	11/25/24 04:36
Total/NA	Analysis	522		1	124118	BC	EA SB	11/25/24 14:26

Client Sample ID: BPOW6-10-20241119

Lab Sample ID: 810-129010-4

Date Collected: 11/19/24 11:00

Matrix: Drinking Water

Date Received: 11/21/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	522			124065	AM	EA SB	11/25/24 04:36
Total/NA	Analysis	522		1	124118	BC	EA SB	11/25/24 18:26

Client Sample ID: BPOW6-9-20241119

Lab Sample ID: 810-129010-5

Date Collected: 11/19/24 12:55

Matrix: Drinking Water

Date Received: 11/21/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	522			124065	AM	EA SB	11/25/24 04:36
Total/NA	Analysis	522		1	124118	BC	EA SB	11/25/24 14:48

Client Sample ID: FB-01-20241119

Lab Sample ID: 810-129010-6

Date Collected: 11/19/24 13:30

Matrix: Drinking Water

Date Received: 11/21/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	522			124065	AM	EA SB	11/25/24 04:36
Total/NA	Analysis	522		1	124118	BC	EA SB	11/25/24 15:10

Eurofins Eaton Analytical South Bend

Lab Chronicle

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-129010-1

Client Sample ID: BPOW6-8-20241119

Date Collected: 11/19/24 15:05

Date Received: 11/21/24 09:30

Lab Sample ID: 810-129010-7

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	522			124065	AM	EA SB	11/25/24 04:36
Total/NA	Analysis	522		1	124118	BC	EA SB	11/25/24 15:32

Client Sample ID: RB-01-20241119

Date Collected: 11/19/24 16:30

Date Received: 11/21/24 09:30

Lab Sample ID: 810-129010-8

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	522			124065	AM	EA SB	11/25/24 04:36
Total/NA	Analysis	522		1	124118	BC	EA SB	11/25/24 15:53

Client Sample ID: DUP-02-20241119

Date Collected: 11/19/24 12:00

Date Received: 11/21/24 09:30

Lab Sample ID: 810-129010-9

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	522			124065	AM	EA SB	11/25/24 04:36
Total/NA	Analysis	522		1	124118	BC	EA SB	11/25/24 16:15

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Accreditation/Certification Summary

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-129010-1

Laboratory: Eurofins Eaton Analytical South Bend

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	ISO/IEC 17025	5794.01	07-31-26
Alabama	State	40700	06-30-25
Alaska	State	IN00035	06-30-25
Arizona	State	AZ0432	07-26-25
Arkansas (DW)	State	EPA IN00035	06-30-25
California	State	2920	06-30-25
Colorado	State	IN00035	02-28-25
Connecticut	State	PH-0132	03-31-26
Delaware (DW)	State	IN00035	06-30-25
Florida	NELAP	E87775	06-30-25
Georgia (DW)	State	929	06-30-25
Guam	State	23-011R	07-15-25
Hawaii	State	IN035	06-30-25
Idaho (DW)	State	IN00035	12-31-24
IL Dept. of Public Health (Micro)	State	17767	06-30-25
Illinois	NELAP	200001	09-30-25
Indiana	State	C-71-01	12-31-25
Indiana (Micro)	State	M-76-07	12-31-25
Iowa	State	IA Lab #098	11-01-25
Kansas	NELAP	E-10233	10-31-25
Kentucky (DW)	State	KY90056	12-31-24
Louisiana (DW)	State	LA014	12-31-24
Maine	State	IN00035	05-01-25
Maryland	State	209	06-30-25
Massachusetts	State	M-IN035	06-30-25
MI - RadChem Recognition	State	9926	06-01-25
Michigan	State	9926	12-31-25
Minnesota	NELAP	1989807	12-31-25
Mississippi	State	IN00035	06-30-25
Missouri	State	880	09-30-27
Montana (DW)	State	CERT0026	01-01-25
Nebraska	State	NE-OS-05-04	06-30-25
Nevada	State	IN000352024-01	07-31-25
New Hampshire	NELAP	2124	11-05-24 *
New Jersey	NELAP	IN598	11-25-24
New Mexico	State	IN00035	06-30-25
New York	NELAP	11398	04-01-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Eaton Analytical South Bend

Accreditation/Certification Summary

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-129010-1

Laboratory: Eurofins Eaton Analytical South Bend (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
North Carolina (DW)	State	18700	07-31-25
North Dakota	State	R-035	06-30-24 *
Northern Mariana Islands (DW)	State	IN00035	06-30-25
Ohio	State	87775	06-30-25
Oklahoma	NELAP	D9508	12-31-24
Oregon	NELAP	4156	09-16-25
Pennsylvania	NELAP	68-00466	04-30-25
Puerto Rico	State	IN00035	04-01-25
Rhode Island	State	LAO00343	12-30-24
South Carolina	State	95005001	06-30-25
South Dakota (DW)	State	IN00035	06-30-25
Tennessee	State	TN02973	06-30-25
Texas	NELAP	T104704187-22-16	12-31-24
Texas	TCEQ Water Supply	TX207	06-30-25
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25
Utah	NELAP	IN00035	07-31-25
Vermont	State	VT-8775	11-15-25
Virginia	NELAP	460275	03-14-25
Washington	State	C837	01-01-25
West Virginia (DW)	State	9927 C	01-31-25
Wisconsin	State	999766900	08-31-25
Wisconsin (Micro)	State	10121	12-31-24
Wyoming	State	8TMS-L	06-30-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Eaton Analytical South Bend

Method Summary

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-129010-1

Method	Method Description	Protocol	Laboratory
522	1,4 Dioxane (GC/MS SIM)	EPA	EA SB
522	Solid-Phase Extraction (SPE)	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Sample Summary

Client: Chemtech Consulting Group Inc.
Project/Site: 1,4 Dioxane

Job ID: 810-129010-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-129010-1	BPOW6-11-20241118	Drinking Water	11/18/24 14:15	11/21/24 09:30
810-129010-2	BPOW6-7-20241118	Drinking Water	11/18/24 16:15	11/21/24 09:30
810-129010-3	DUP-01-20241118	Drinking Water	11/18/24 12:00	11/21/24 09:30
810-129010-4	BPOW6-10-20241119	Drinking Water	11/19/24 11:00	11/21/24 09:30
810-129010-5	BPOW6-9-20241119	Drinking Water	11/19/24 12:55	11/21/24 09:30
810-129010-6	FB-01-20241119	Drinking Water	11/19/24 13:30	11/21/24 09:30
810-129010-7	BPOW6-8-20241119	Drinking Water	11/19/24 15:05	11/21/24 09:30
810-129010-8	RB-01-20241119	Drinking Water	11/19/24 16:30	11/21/24 09:30
810-129010-9	DUP-02-20241119	Drinking Water	11/19/24 12:00	11/21/24 09:30

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Eaton Analytical South BendJob No.: 810-129010-1

SDG No.: _____

Instrument ID: GCMS-FEAnalysis Batch Number: 123541Lab Sample ID: IC 810-123437/4-A

Client Sample ID: _____

Date Analyzed: 11/20/24 15:07Lab File ID: IC 007.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.36	Incomplete Integration	JH8B	11/21/24 09:57

Lab Sample ID: IC 810-123437/5-A

Client Sample ID: _____

Date Analyzed: 11/20/24 15:29Lab File ID: IC 01.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.36	Incomplete Integration	JH8B	11/21/24 09:57

Lab Sample ID: IC 810-123437/6-A

Client Sample ID: _____

Date Analyzed: 11/20/24 15:51Lab File ID: IC 02.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.36	Incomplete Integration	JH8B	11/21/24 09:58

Lab Sample ID: IC 810-123437/7-A

Client Sample ID: _____

Date Analyzed: 11/20/24 16:12Lab File ID: IC 05.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.36	Incomplete Integration	JH8B	11/21/24 09:58

Lab Sample ID: ICISAV 810-123437/8-A

Client Sample ID: _____

Date Analyzed: 11/20/24 16:34Lab File ID: IC 1.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.36	Incomplete Integration	JH8B	11/21/24 09:58

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Eaton Analytical South BendJob No.: 810-129010-1

SDG No.: _____

Instrument ID: GCMS-FEAnalysis Batch Number: 123541Lab Sample ID: IC 810-123437/9-A

Client Sample ID: _____

Date Analyzed: 11/20/24 16:56Lab File ID: IC 2.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.36	Incomplete Integration	JH8B	11/21/24 09:59

Lab Sample ID: IC 810-123437/10-A

Client Sample ID: _____

Date Analyzed: 11/20/24 17:18Lab File ID: IC 5.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.35	Incomplete Integration	JH8B	11/21/24 09:59

Lab Sample ID: IC 810-123437/11-A

Client Sample ID: _____

Date Analyzed: 11/20/24 17:40Lab File ID: IC 10.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.35	Incomplete Integration	JH8B	11/21/24 09:59

Lab Sample ID: ICV 810-123437/13-A

Client Sample ID: _____

Date Analyzed: 11/20/24 19:07Lab File ID: ICV.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.36	Incomplete Integration	JH8B	11/21/24 10:08

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Eaton Analytical South BendJob No.: 810-129010-1

SDG No.: _____

Instrument ID: GCMS-FEAnalysis Batch Number: 124118Lab Sample ID: CCVLIS 810-124067/1-A

Client Sample ID: _____

Date Analyzed: 11/25/24 11:53Lab File ID: CCVL.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.36	Baseline	UBRC	11/26/24 11:12

Lab Sample ID: MBL 810-124065/1-A

Client Sample ID: _____

Date Analyzed: 11/25/24 12:37Lab File ID: MBL.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.37	Baseline	UBRC	11/26/24 11:18

Lab Sample ID: LLCS 810-124065/2-A

Client Sample ID: _____

Date Analyzed: 11/25/24 12:59Lab File ID: LLCS.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.37	Baseline	UBRC	11/26/24 11:29

Lab Sample ID: LCS 810-124065/3-A

Client Sample ID: _____

Date Analyzed: 11/25/24 13:21Lab File ID: LCS.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.36	Baseline	UBRC	11/26/24 11:31

Lab Sample ID: 810-129010-3Client Sample ID: DUP-01-20241118Date Analyzed: 11/25/24 14:26Lab File ID: 810-129010-A-3-A.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.36	Baseline	UBRC	11/26/24 11:33

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Eaton Analytical South BendJob No.: 810-129010-1

SDG No.: _____

Instrument ID: GCMS-FEAnalysis Batch Number: 124118Lab Sample ID: 810-129010-5Client Sample ID: BPOW6-9-20241119Date Analyzed: 11/25/24 14:48Lab File ID: 810-129010-A-5-A.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.37	Baseline	UBRC	11/26/24 11:33

Lab Sample ID: 810-129010-6Client Sample ID: FB-01-20241119Date Analyzed: 11/25/24 15:10Lab File ID: 810-129010-A-6-A.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.36	Baseline	UBRC	11/26/24 11:34

Lab Sample ID: 810-129010-7Client Sample ID: BPOW6-8-20241119Date Analyzed: 11/25/24 15:32Lab File ID: 810-129010-A-7-A.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.38	Baseline	UBRC	11/26/24 11:35

Lab Sample ID: 810-129010-8Client Sample ID: RB-01-20241119Date Analyzed: 11/25/24 15:53Lab File ID: 810-129010-A-8-A.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.36	Wrong peak	UBRC	11/26/24 13:32

Lab Sample ID: 810-129010-9Client Sample ID: DUP-02-20241119Date Analyzed: 11/25/24 16:15Lab File ID: 810-129010-A-9-A.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.37	Baseline	UBRC	11/26/24 12:12

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Eaton Analytical South BendJob No.: 810-129010-1

SDG No.: _____

Instrument ID: GCMS-FEAnalysis Batch Number: 124118Lab Sample ID: 810-129010-4Client Sample ID: BPOW6-10-20241119Date Analyzed: 11/25/24 18:26Lab File ID: 810-129010-A-4-C.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.37	Baseline	UBRC	11/26/24 12:37

Lab Sample ID: 810-129010-4 MSClient Sample ID: BPOW6-10-20241119MS MSDate Analyzed: 11/25/24 18:47Lab File ID: 810-129010-A-4-A MS.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.36	Baseline	UBRC	11/26/24 12:37

Lab Sample ID: 810-129010-4 MSDClient Sample ID: BPOW6-10-20241119MSD MSDDate Analyzed: 11/25/24 19:09Lab File ID: 810-129010-A-4-B MSD.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.37	Baseline	UBRC	11/26/24 12:39

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-129010-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
522 IS SS 00219	12/02/24	11/18/24	MeCl2, Lot EJ007-US	2 mL	522 IS Stock 00030	200 uL	Tetrahydrofuran-d8	100 ug/mL
.522 IS Stock 00030	10/25/28	11/11/24	Methanol, Lot na	1 mL	522-IS-Stock_00008	1 mL	Tetrahydrofuran-d8	1000 ug/mL
..522-IS-Stock_00008	10/25/28		Absolute Standards Inc., Lot 102523		(Purchased Reagent)		Tetrahydrofuran-d8	1000 ug/mL
522 IS SS 00220	12/09/24	11/25/24	MeCl2, Lot EJ007-US	2 mL	522 IS Stock 00030	200 uL	Tetrahydrofuran-d8	100 ug/mL
.522 IS Stock 00030	10/25/28	11/11/24	Methanol, Lot na	1 mL	522-IS-Stock_00008	1 mL	Tetrahydrofuran-d8	1000 ug/mL
..522-IS-Stock_00008	10/25/28		Absolute Standards Inc., Lot 102523		(Purchased Reagent)		Tetrahydrofuran-d8	1000 ug/mL
522-Sur-SS_00116	05/11/25	11/11/24	Methanol, Lot 24G0262002	2 mL	522-SUR-Stock_00017	100 uL	1,4-Dioxane-d8 (Surr)	100 ug/mL
.522-SUR-Stock_00017	12/31/26	03/22/24		1 mL	522-SUR-Stock_00018	1 mL	1,4-Dioxane-d8 (Surr)	2000 ug/mL
..522-SUR-Stock_00018	12/31/26		Restek, Lot A0206061		(Purchased Reagent)		1,4-Dioxane-d8 (Surr)	2000 ug/mL
522-Sur-SS_00117	05/19/25	11/19/24	Methanol, Lot 24G0262002	2 mL	522-SUR-Stock_00017	100 uL	1,4-Dioxane-d8 (Surr)	100 ug/mL
.522-SUR-Stock_00017	12/31/26	03/22/24		1 mL	522-SUR-Stock_00018	1 mL	1,4-Dioxane-d8 (Surr)	2000 ug/mL
..522-SUR-Stock_00018	12/31/26		Restek, Lot A0206061		(Purchased Reagent)		1,4-Dioxane-d8 (Surr)	2000 ug/mL
O-522 CalM_00015	04/22/25	10/22/24	Methanol, Lot 24G0262002	2 mL	522 AnalyteST_00003	10 uL	1,4-Dioxane	10 ug/mL
.522 AnalyteST_00003	05/31/26	10/22/24	Methanol, Lot na	1 mL	522-Analyte_00003	1 mL	1,4-Dioxane	2000 ug/mL
..522-Analyte_00003	05/31/26		Restek, Lot A0172836		(Purchased Reagent)		1,4-Dioxane	2000 ug/mL
O-522-CalH_00012	04/22/25	10/22/24	Methanol, Lot 24G0262002	2 mL	522 AnalyteST_00003	100 uL	1,4-Dioxane	100 ug/mL
.522 AnalyteST_00003	05/31/26	10/22/24	Methanol, Lot na	1 mL	522-Analyte_00003	1 mL	1,4-Dioxane	2000 ug/mL
..522-Analyte_00003	05/31/26		Restek, Lot A0172836		(Purchased Reagent)		1,4-Dioxane	2000 ug/mL
O-522-QCS-Sub_00007	12/02/24	08/29/24	Methanol, Lot 23I0762004	2 mL	522-QCS_00001	20 uL	1,4-Dioxane	10 ug/mL
.522-QCS_00001	12/02/24		AccuStandard, Lot 214121041		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
O-522BFBSub_00015	01/14/25	10/14/24	MeCl2, Lot EI661-US	2 mL	o-522-bfb_00004	2 uL	BFB	2.005 ug/mL
.o-522-bfb_00004	09/30/28	07/21/22	METHANOL, Lot NA	1 mL	O-522-BFB_00003	1 mL	BFB	2005 ug/mL
..O-522-BFB_00003	09/30/28		Agilent, Lot 6629793		(Purchased Reagent)		BFB	2005 ug/mL
O522-CalL_00016	04/22/25	10/22/24	Methanol, Lot 24G0262002	2 mL	O-522-CalH_00012	20 uL	1,4-Dioxane	1 ug/mL
.O-522-CalH_00012	04/22/25	10/22/24	Methanol, Lot 24G0262002	2 mL	522 AnalyteST_00003	100 uL	1,4-Dioxane	100 ug/mL
..522 AnalyteST_00003	05/31/26	10/22/24	Methanol, Lot na	1 mL	522-Analyte_00003	1 mL	1,4-Dioxane	2000 ug/mL
...522-Analyte_00003	05/31/26		Restek, Lot A0172836		(Purchased Reagent)		1,4-Dioxane	2000 ug/mL

Reagent

522-Analyte_00003



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. : 30287 Lot No.: A0172836
Description : 1,4-Dioxane Standard
1,4-Dioxane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : May 31, 2026 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (Lot SHBM5092)	2,019.2 µg/mL	+/- 11.8498	µg/mL	Gravimetric	
			+/- 43.2613	µg/mL	Unstressed	
			+/- 44.5173	µg/mL	Stressed	

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

Rec'd: 12/14/2021 Hms

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

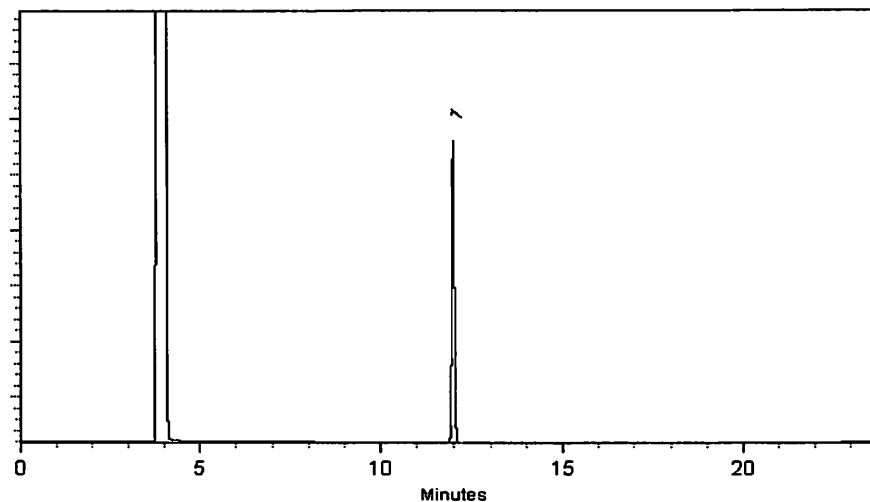
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

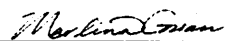
Det. Type:
FID



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


Walker Workman - Operations Technician I

Date Mixed: 27-May-2021 Balance: 1128360905


Marlene Cowan - Operations Tech I

Date Passed: 01-Jun-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

522-IS-Stock_00008



CERTIFIED WEIGHT REPORT

Part Number: 72261
Lot Number: 102523
Description: Tetrahydrofuran-d8

Solvent(s):	Lot#
Methanol	EG359-US

<i>Eli Aliaga</i>		102523
Formulated By:	Eli Aliaga	DATE
<i>Pedro L. Rentas</i>		102523
Reviewed By:	Pedro L. Rentas	DATE

Recd 03/08/2024
Hms

Expiration Date: 102528

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration ($\mu\text{g/mL}$): 1000

NIST Test ID#: 6UTB

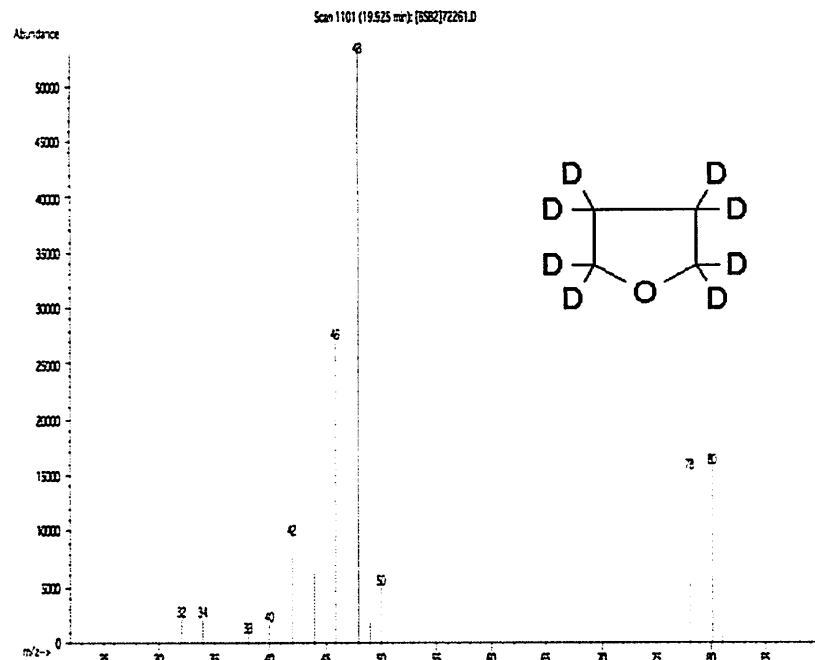
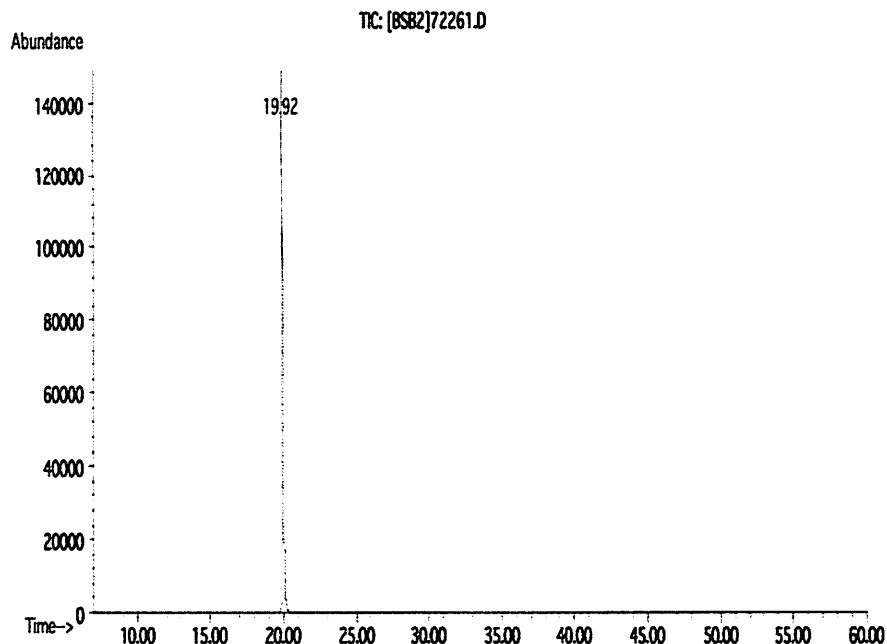
5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Expanded Uncertainty (+/-) µg/mL	SDS Information (Solvent Safety Info. On Attached pg.)		
	CAS#	OSHA PEL (TWA)	LD5

Compound	RM#	Lot	Nominal	Purity	Uncertainty	Target	Actual	Actual	Uncertainty	(Solvent Safety Info. On Attached pg.)		
		Number	Conc (µg/mL)	(%)	Purity	Weight(g)	Weight(g)	Conc (µg/mL)	(+/-) µg/mL	CAS#	OSHA PEL (TWA)	LD50
1. Tetrahydrofuran-d8	2261	I-24862H	1000	99.6	0.2	0.10045	0.10054	1000.9	4.2	1693-74-9	N/A	N/A

Method: GC6MSD-1. **Detector:** MSD (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1=35°C (10 min.), Temp. 2=200°C (8.75 min.), Rate=4°C/min., **Injector Temp.=**200°C, **Detector Temp.=**200°C. **Analyst:** Candice Warren.



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

Reagent

522-QCS_00001

125 Market Street
New Haven, CT 06513
USA



AccuStandard®, Inc.

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

CERTIFICATE OF ANALYSIS

Catalog No: APP-9-096-10X

Description: p-Dioxane Standard

Lot: 214121041

Solvent: Methanol

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

Date Certified: Dec 2, 2014

Expiration: Dec 2, 2024

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 %	Prepared Concentration ¹	Certified Analyte Concentration ²
		(MFG)	(µg/mL)	(µg/mL)
p-Dioxane	123-91-1	99.0	1005	995

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. 822-275872-11

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 Decker, Organic QC Manager

Page 1 of 1

For use in routine laboratory analysis.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

OR-ORG/INO-001
Rev. 7/11

Reagent

522-SUR-Stock_00018



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



Recd 03/21/2024
Hms

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. : 30614 Lot No.: A0206061
Description : 1,4-dioxane-d8 Standard
1,4-dioxane-d8 Standard 2000 µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : December 31, 2026 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane-d8	17647-74-4	RP230605	99%	2,010.4 µg/mL	+/- 25.0198

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

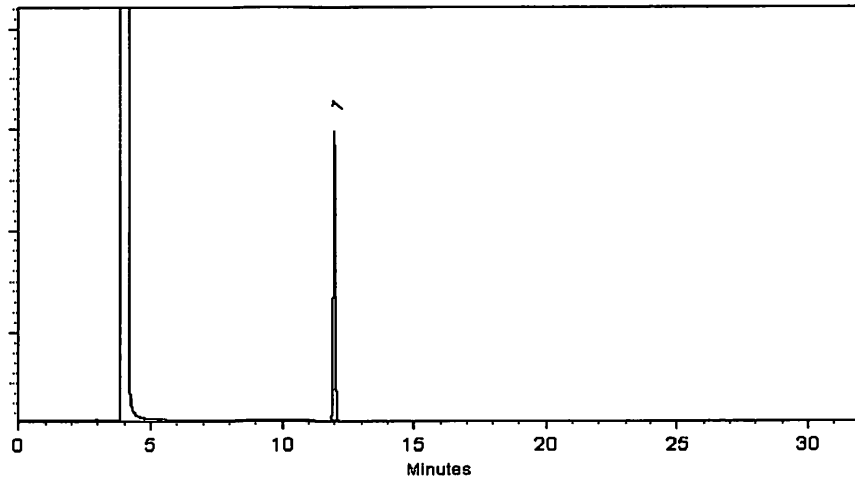
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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

W. Torres
Wilner Torres - Operation Tech I

Date Mixed: 29-Dec-2023

Balance Serial # 1128342314

C. Mills
Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 04-Jan-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

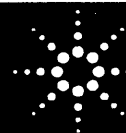
- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability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

Reagent

O-522-BFB_00003

Recd at 07/06/2022
07/06/2022
HMS

ISO 17034



Agilent

Trusted Answers

Reference Material Certificate

Product Name: 4-Bromofluorobenzene Standard

Lot Number: 0006629793

Product Number: STS-110N-1

Lot Issue Date: 10-Aug-2021

Storage Conditions: Store Frozen (-25° to -10°C).

Expiration Date: 30-Sep-2028

Component Name	CERTIFIED VALUES		CAS#	Analyte Lot
	Concentration	Expanded Uncertainty		
4-bromofluorobenzene	2009	± 10 µg/mL	000460-00-4	RM12184

Matrix: methanol (methyl alcohol)

Description:

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

Traceability:

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

Homogeneity:

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

Instructions for Use:

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

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

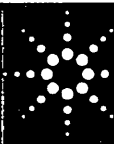
Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

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

ISO 17034



Agilent

Trusted Answers

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:



Monica Bourgeois

QMS Representative



ISO 17034 Cert
No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015
Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/

CSD-QA-015.1



ISO 17025 Cert
No. AT-1937

Method 522

1,4 Dioxane (GC/MS SIM) by Method
522

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-129010-1

SDG No.: _____

Matrix: Drinking Water Level: Low

GC Column (1): CPSelect 62 ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DXE #
BPOW6-11-20241118	810-129010-1	95
BPOW6-7-20241118	810-129010-2	95
DUP-01-20241118	810-129010-3	95
BPOW6-10-20241119	810-129010-4	98
BPOW6-9-20241119	810-129010-5	96
FB-01-20241119	810-129010-6	96
BPOW6-8-20241119	810-129010-7	90
RB-01-20241119	810-129010-8	85
DUP-02-20241119	810-129010-9	98
	LCS 810-124065/3-A	97
	LLCS 810-124065/2-A	87
BPOW6-10-20241119M S MS	810-129010-4 MS	97
BPOW6-10-20241119M SD MSD	810-129010-4 MSD	94
	MBL 810-124065/1-A	93

DXE = 1,4-Dioxane-d8 (Surr)

QC LIMITS
70-130

Column to be used to flag recovery values

FORM II 522

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Eaton Analytical South Job No.: 810-129010-1
Bend

SDG No.:

Matrix: Drinking Water Level: Low Lab File ID: LCS.D

Lab ID: LCS 810-124065/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	1.00	0.989	99	70-130	

Column to be used to flag recovery and RPD values

FORM III 522

FORM III
GC/MS SEMI VOA LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Eaton Analytical South Job No.: 810-129010-1
Bend

SDG No.:

Matrix: Drinking Water Level: Low Lab File ID: LLC.S.D

Lab ID: LLC.S 810-124065/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LLCS CONCENTRATION (ug/L)	LLCS % REC	QC LIMITS REC	#
1,4-Dioxane	0.0700	0.0919	131	50-150	

Column to be used to flag recovery and RPD values

FORM III 522

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Eaton Analytical South Job No.: 810-129010-1
Bend

SDG No.:

Matrix: Drinking Water Level: Low Lab File ID: 810-129010-A-4-A MS.D

Lab ID: 810-129010-4 MS Client ID: BPOW6-10-20241119MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,4-Dioxane	1.00	<0.070	0.983	98	70-130	

Column to be used to flag recovery and RPD values

FORM III 522

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Eaton Analytical South
Bend

Job No.: 810-129010-1

SDG No.:

Matrix: Drinking Water Level: Low

Lab File ID: 810-129010-A-4-B MSD.D

Lab ID: 810-129010-4 MSD

Client ID: BPOW6-10-20241119MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,4-Dioxane	1.00	0.950	95	3	30	70-130	

Column to be used to flag recovery and RPD values

FORM III 522

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-129010-1

SDG No.: _____

Lab File ID: MBL.D Lab Sample ID: MBL 810-124065/1-A

Matrix: Drinking Water Date Extracted: 11/25/2024 04:36

Instrument ID: GCMS-FE Date Analyzed: 11/25/2024 12:37

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LLCS 810-124065/2-A	LLCS.D	11/25/2024 12:59
	LCS 810-124065/3-A	LCS.D	11/25/2024 13:21
BPOW6-11-20241118	810-129010-1	810-129010-A-1-A.D	11/25/2024 13:43
BPOW6-7-20241118	810-129010-2	810-129010-A-2-A.D	11/25/2024 14:04
DUP-01-20241118	810-129010-3	810-129010-A-3-A.D	11/25/2024 14:26
BPOW6-9-20241119	810-129010-5	810-129010-A-5-A.D	11/25/2024 14:48
FB-01-20241119	810-129010-6	810-129010-A-6-A.D	11/25/2024 15:10
BPOW6-8-20241119	810-129010-7	810-129010-A-7-A.D	11/25/2024 15:32
RB-01-20241119	810-129010-8	810-129010-A-8-A.D	11/25/2024 15:53
DUP-02-20241119	810-129010-9	810-129010-A-9-A.D	11/25/2024 16:15
BPOW6-10-20241119	810-129010-4	810-129010-A-4-C.D	11/25/2024 18:26
BPOW6-10-20241119MS MS	810-129010-4 MS	810-129010-A-4-A MS.D	11/25/2024 18:47
BPOW6-10-20241119MSD MSD	810-129010-4 MSD	810-129010-A-4-B MSD.D	11/25/2024 19:09

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

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-129010-1

SDG No.:

Lab File ID: BFB 1.D BFB Injection Date: 11/20/2024

Instrument ID: GCMS-FE BFB Injection Time: 14:40

Analysis Batch No.: 123541

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.4
75	30.0 - 80.0 % of mass 95	50.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.5
173	Less than 2.0 % of mass 174	0.7 (0.8) 1
174	>50.0 % of mass 95	83.5
175	5.0 - 9.0 % of mass 174	6.2 (7.4) 1
176	>95.0 but <101.0 % of mass 174	80.3 (96.2) 1
177	5.0 - 9.0 % of mass 176	5.1 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 810-123437/4-A	IC 007.D	11/20/2024	15:07
	IC 810-123437/5-A	IC 01.D	11/20/2024	15:29
	IC 810-123437/6-A	IC 02.D	11/20/2024	15:51
	IC 810-123437/7-A	IC 05.D	11/20/2024	16:12
	ICISAV 810-123437/8-A	IC 1.D	11/20/2024	16:34
	IC 810-123437/9-A	IC 2.D	11/20/2024	16:56
	IC 810-123437/10-A	IC 5.D	11/20/2024	17:18
	IC 810-123437/11-A	IC 10.D	11/20/2024	17:40
	IC 810-123437/12-A	IC 20.D	11/20/2024	18:02
	ICV 810-123437/13-A	ICV.D	11/20/2024	19:07

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

Lab Name: Eurofins Eaton Analytical South Job No.: 810-129010-1
Bend

SDG No.: _____

Instrument I GCMS-FE Calibration Start Date: 11/20/2024 15:07

GC Column: CPSelect 624 MS ID: 0.25 (mm) Calibration End Date: 11/20/2024 18:02

Calibration ID: 13962

		THFd8					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		174363	6.20				
UPPER LIMIT		261545	6.70				
LOWER LIMIT		87182	5.70				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV		172753	6.20				
810-123437/13-A							
CCVLIS		159472	6.20				
810-124067/1-A							
MBL 810-124065/1-A		177439	6.21				
LLCS		184229	6.21				
810-124065/2-A							
LCS 810-124065/3-A		173614	6.21				
810-129010-1	BPOW6-11-20241118	171534	6.21				
810-129010-2	BPOW6-7-20241118	177756	6.21				
810-129010-3	DUP-01-20241118	172315	6.21				
810-129010-5	BPOW6-9-20241119	177296	6.21				
810-129010-6	FB-01-20241119	177975	6.22				
810-129010-7	BPOW6-8-20241119	180383	6.22				
810-129010-8	RB-01-20241119	175146	6.21				
810-129010-9	DUP-02-20241119	180961	6.21				
CCVIS		171922	6.21				
810-124067/3-A							
810-129010-4	BPOW6-10-20241119	173268	6.21				
810-129010-4 MS	BPOW6-10-20241119MS	185745	6.21				
	MS						
810-129010-4 MSD	BPOW6-10-20241119MS	184713	6.21				
	D MSD						
CCV 810-124067/5-A		176900	6.21				

THFd8 = Tetrahydrofuran-d8

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: Eurofins Eaton Analytical South Job No.: 810-129010-1
Bend

SDG No.:

Sample No.: CCVLIS 810-124067/1-A Date Analyzed: 11/25/2024 11:53

Instrument ID: GCMS-FE GC Column: CPSelect 624 MS ID: 0.25 (mm)

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

Calibration ID: 13962

		THFd8					
		AREA #	RT #	#	RT #	#	RT #
Low Level 12/24 HOUR STD		159472	6.20				
UPPER LIMIT		207314	6.70				
LOWER LIMIT		111630	5.70				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MBL 810-124065/1-A		177439	6.21				
LLCS 810-124065/2-A		184229	6.21				
LCS 810-124065/3-A		173614	6.21				
810-129010-1	BPOW6-11-20241118	171534	6.21				
810-129010-2	BPOW6-7-20241118	177756	6.21				
810-129010-3	DUP-01-20241118	172315	6.21				
810-129010-5	BPOW6-9-20241119	177296	6.21				
810-129010-6	FB-01-20241119	177975	6.22				
810-129010-7	BPOW6-8-20241119	180383	6.22				
810-129010-8	RB-01-20241119	175146	6.21				
810-129010-9	DUP-02-20241119	180961	6.21				
CCVIS 810-124067/3-A		171922	6.21				

THFd8 = Tetrahydrofuran-d8

Area Limit = 70%-130% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: Eurofins Eaton Analytical South Job No.: 810-129010-1
Bend
SDG No.:
Sample No.: CCVIS 810-124067/3-A Date Analyzed: 11/25/2024 17:20
Instrument ID: GCMS-FE GC Column: CPSelect 624 MS ID: 0.25 (mm)
Lab File ID (Standard): CCVM.D Heated Purge: (Y/N) N
Calibration ID: 13962

		THFd8					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		171922	6.21				
UPPER LIMIT		223499	6.71				
LOWER LIMIT		120345	5.71				
LAB SAMPLE ID	CLIENT SAMPLE ID						
810-129010-4	BPOW6-10-20241119	173268	6.21				
810-129010-4 MS	BPOW6-10-20241119MS MS	185745	6.21				
810-129010-4 MSD	BPOW6-10-20241119MS D MSD	184713	6.21				
CCV 810-124067/5-A		176900	6.21				

THFd8 = Tetrahydrofuran-d8

Area Limit = 70%-130% of internal standard area
RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Eaton Analytical South Bend	Job No.: 810-129010-1
SDG No.:	
Client Sample ID: BPOW6-11-20241118	Lab Sample ID: 810-129010-1
Matrix: Drinking Water	Lab File ID: 810-129010-A-1-A.D
Analysis Method: 522	Date Collected: 11/18/2024 14:15
Extract. Method: 522	Date Extracted: 11/25/2024 04:36
Sample wt/vol: 100 (mL)	Date Analyzed: 11/25/2024 13:43
Con. Extract Vol.: 2 (mL)	Dilution Factor: 1
Injection Volume: 1 (uL)	GC Column: CPSelect 624 MS ID: 0.25 (mm)
% Moisture: % Solids:	GPC Cleanup: (Y/N) N
Cleanup Factor:	Level: (low/med) Low
Analysis Batch No.: 124118	Units: ug/L
Preparation Batch No.: 124065	Instrument ID: GCMS-FE

CAS NO.	COMPOUND NAME	RESULT	Q	RL
123-91-1	1,4-Dioxane	<0.070		0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8 (Surr)	95		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-1-A.D
Lims ID: 810-129010-A-1-A
Client ID: BPOW6-11-20241118
Sample Type: Client
Inject. Date: 25-Nov-2024 13:43:14 ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-005
Misc. Info.: 810-129010-A-1-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:35:56 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 13:31:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.212	6.212	0.000	24	171534	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.289	8.289	0.000	100	148008	477.1	
11 1,4-Dioxane	88	8.362	8.362	0.000	73	402	1.36	

QC Flag Legend

Processing Flags

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-1-A.D

Injection Date: 25-Nov-2024 13:43:14

Instrument ID: GCMS-FE

Lims ID: 810-129010-A-1-A

Lab Sample ID: 810-129010-1

Client ID: BPOW6-11-20241118

Operator ID: BC

ALS Bottle#: 6

Worklist Smp#: 5

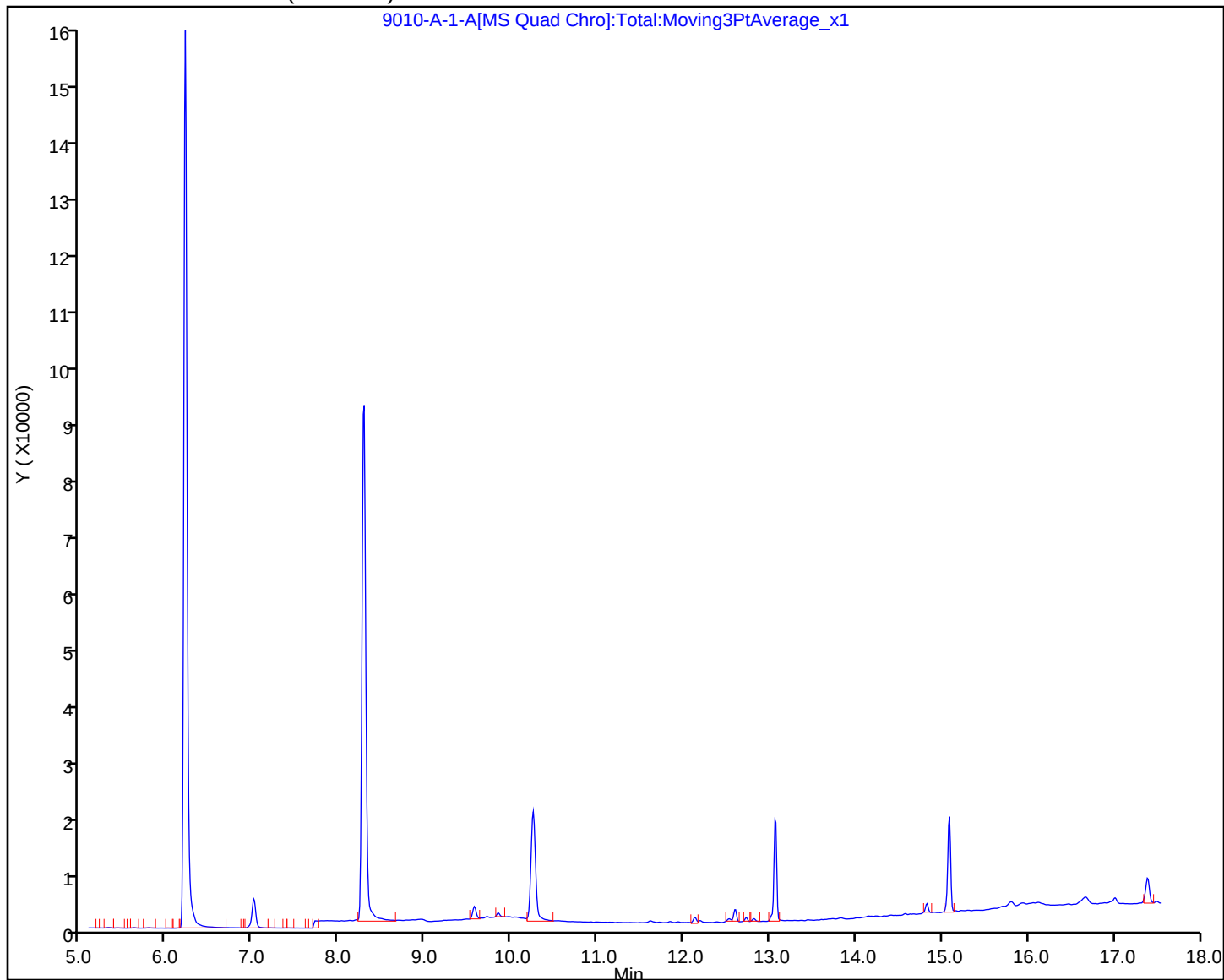
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend
Recovery Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-1-A.D
Lims ID: 810-129010-A-1-A
Client ID: BPOW6-11-20241118
Sample Type: Client
Inject. Date: 25-Nov-2024 13:43:14 ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-005
Misc. Info.: 810-129010-A-1-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:35:56 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 13:31:20

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	477.1	95.41

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Eaton Analytical South Bend	Job No.: 810-129010-1
SDG No.:	
Client Sample ID: BPOW6-7-20241118	Lab Sample ID: 810-129010-2
Matrix: Drinking Water	Lab File ID: 810-129010-A-2-A.D
Analysis Method: 522	Date Collected: 11/18/2024 16:15
Extract. Method: 522	Date Extracted: 11/25/2024 04:36
Sample wt/vol: 100 (mL)	Date Analyzed: 11/25/2024 14:04
Con. Extract Vol.: 2 (mL)	Dilution Factor: 1
Injection Volume: 1 (uL)	GC Column: CPSelect 624 MS ID: 0.25 (mm)
% Moisture: % Solids:	GPC Cleanup: (Y/N) N
Cleanup Factor:	Level: (low/med) Low
Analysis Batch No.: 124118	Units: ug/L
Preparation Batch No.: 124065	Instrument ID: GCMS-FE

CAS NO.	COMPOUND NAME	RESULT	Q	RL
123-91-1	1,4-Dioxane	<0.070		0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8 (Surr)	95		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-2-A.D
Lims ID: 810-129010-A-2-A
Client ID: BPOW6-7-20241118
Sample Type: Client
Inject. Date: 25-Nov-2024 14:04:57 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-006
Misc. Info.: 810-129010-A-2-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed

Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:35:56 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D

Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 13:31:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.212	6.212	0.000	23	177756	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.289	8.289	0.000	100	152873	475.5	
11 1,4-Dioxane	88	8.362	8.362	0.000	75	428	1.40	

QC Flag Legend

Processing Flags

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-2-A.D

Injection Date: 25-Nov-2024 14:04:57

Instrument ID: GCMS-FE

Lims ID: 810-129010-A-2-A

Lab Sample ID: 810-129010-2

Client ID: BPOW6-7-20241118

Operator ID: BC

ALS Bottle#: 7

Worklist Smp#: 6

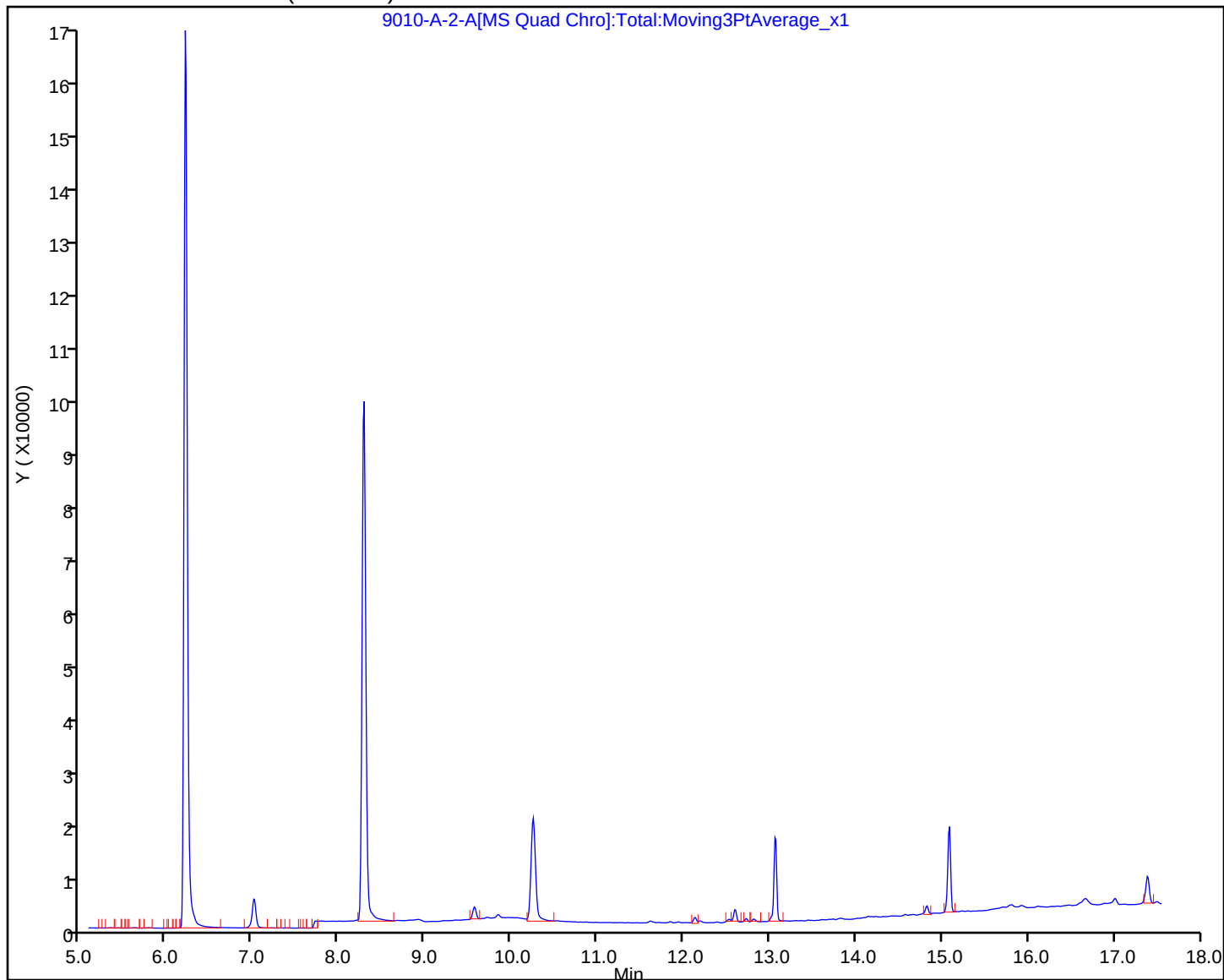
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend
Recovery Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-2-A.D
Lims ID: 810-129010-A-2-A
Client ID: BPOW6-7-20241118
Sample Type: Client
Inject. Date: 25-Nov-2024 14:04:57 ALS Bottle#: 7 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-006
Misc. Info.: 810-129010-A-2-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:35:56 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 13:31:33

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	475.5	95.10

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Eaton Analytical South Bend
Job No.: 810-129010-1

SDG No.:

Client Sample ID: DUP-01-20241118
Lab Sample ID: 810-129010-3

Matrix: Drinking Water
Lab File ID: 810-129010-A-3-A.D

Analysis Method: 522
Date Collected: 11/18/2024 12:00

Extract. Method: 522
Date Extracted: 11/25/2024 04:36

Sample wt/vol: 100 (mL)
Date Analyzed: 11/25/2024 14:26

Con. Extract Vol.: 2 (mL)
Dilution Factor: 1

Injection Volume: 1 (uL)
GC Column: CPSelect 624 MS ID: 0.25 (mm)

% Moisture: % Solids: GPC Cleanup: (Y/N) N

Cleanup Factor: Level: (low/med) Low

Analysis Batch No.: 124118
Units: ug/L

Preparation Batch No.: 124065
Instrument ID: GCMS-FE

CAS NO.	COMPOUND NAME	RESULT	Q	RL
123-91-1	1,4-Dioxane	<0.070		0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8 (Surr)	95		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-3-A.D
Lims ID: 810-129010-A-3-A
Client ID: DUP-01-20241118
Sample Type: Client
Inject. Date: 25-Nov-2024 14:26:39 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-007
Misc. Info.: 810-129010-A-3-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:35:56 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 11:33:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.212	6.212	0.000	24	172315	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.289	8.289	0.000	100	148693	477.1	
11 1,4-Dioxane	88	8.362	8.362	0.000	77	448	1.50	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-3-A.D

Injection Date: 25-Nov-2024 14:26:39

Instrument ID: GCMS-FE

Lims ID: 810-129010-A-3-A

Lab Sample ID: 810-129010-3

Client ID: DUP-01-20241118

Operator ID: BC

ALS Bottle#: 8

Worklist Smp#: 7

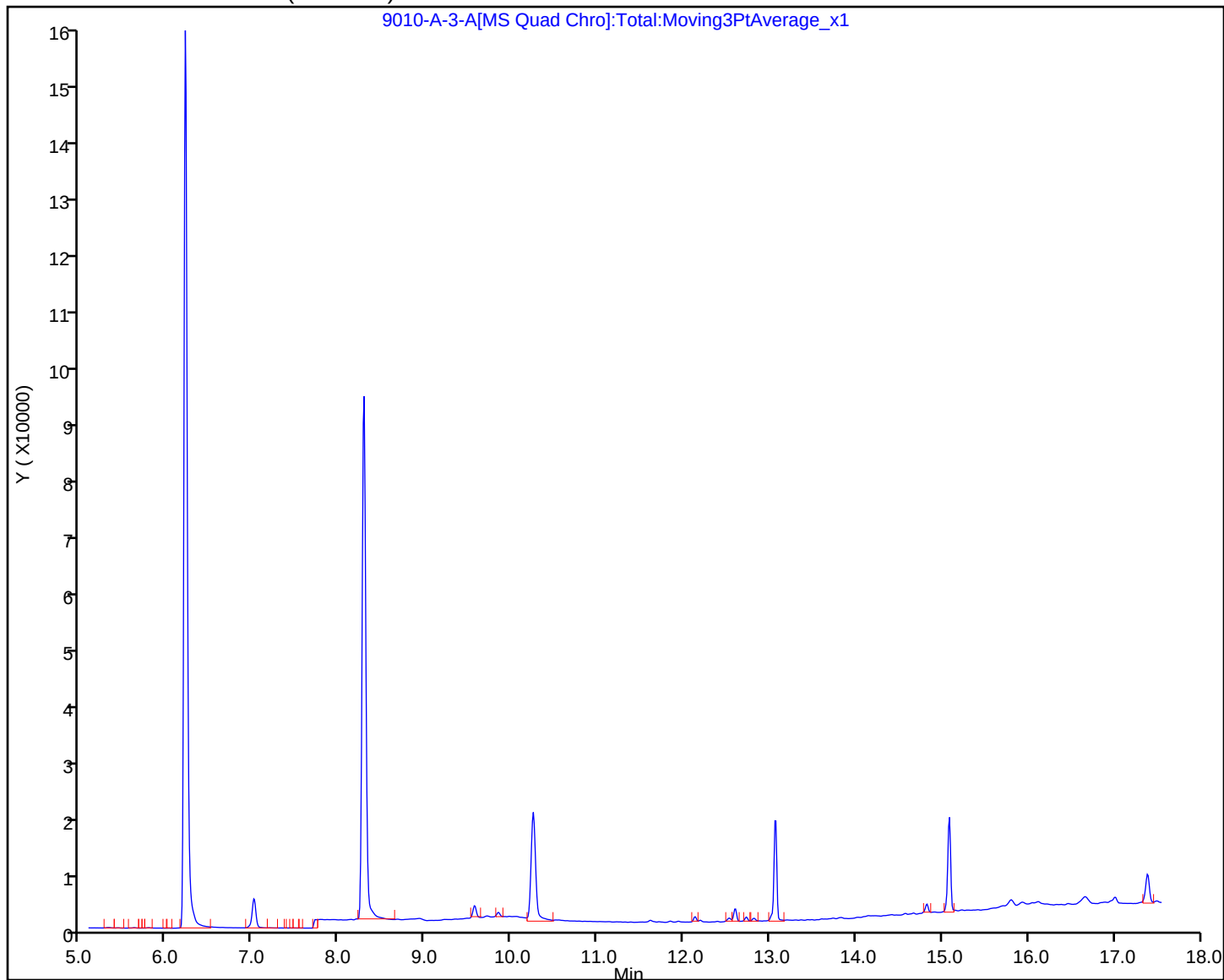
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend
Recovery Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-3-A.D
Lims ID: 810-129010-A-3-A
Client ID: DUP-01-20241118
Sample Type: Client
Inject. Date: 25-Nov-2024 14:26:39 ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-007
Misc. Info.: 810-129010-A-3-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:35:56 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 11:33:39

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	477.1	95.42

Eurofins Eaton Analytical South Bend

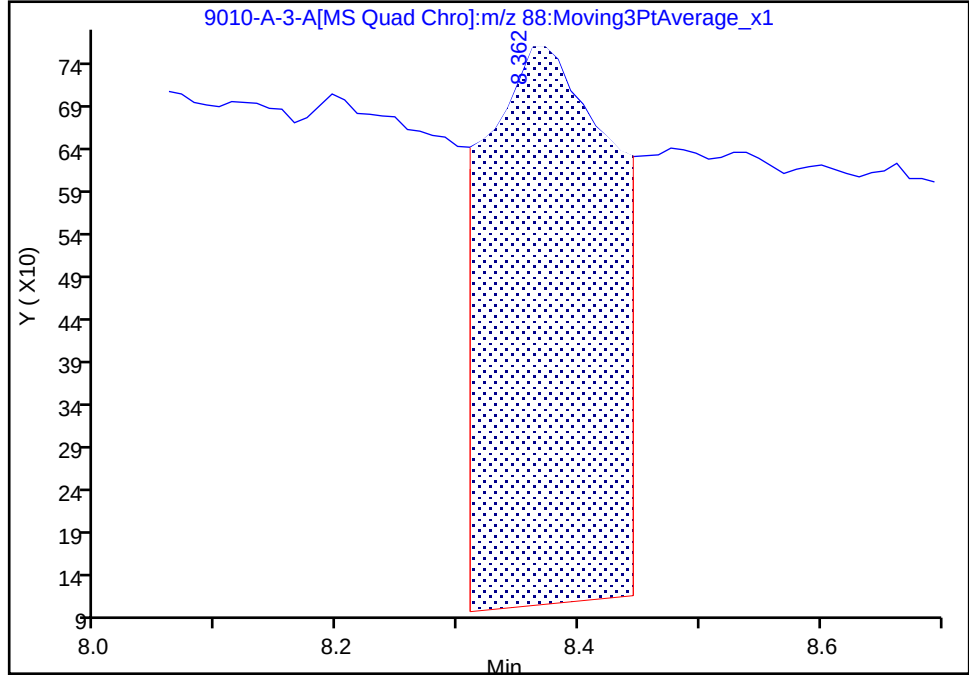
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-3-A.D
Injection Date: 25-Nov-2024 14:26:39 Instrument ID: GCMS-FE
Lims ID: 810-129010-A-3-A Lab Sample ID: 810-129010-3
Client ID: DUP-01-20241118
Operator ID: BC ALS Bottle#: 8 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector: MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

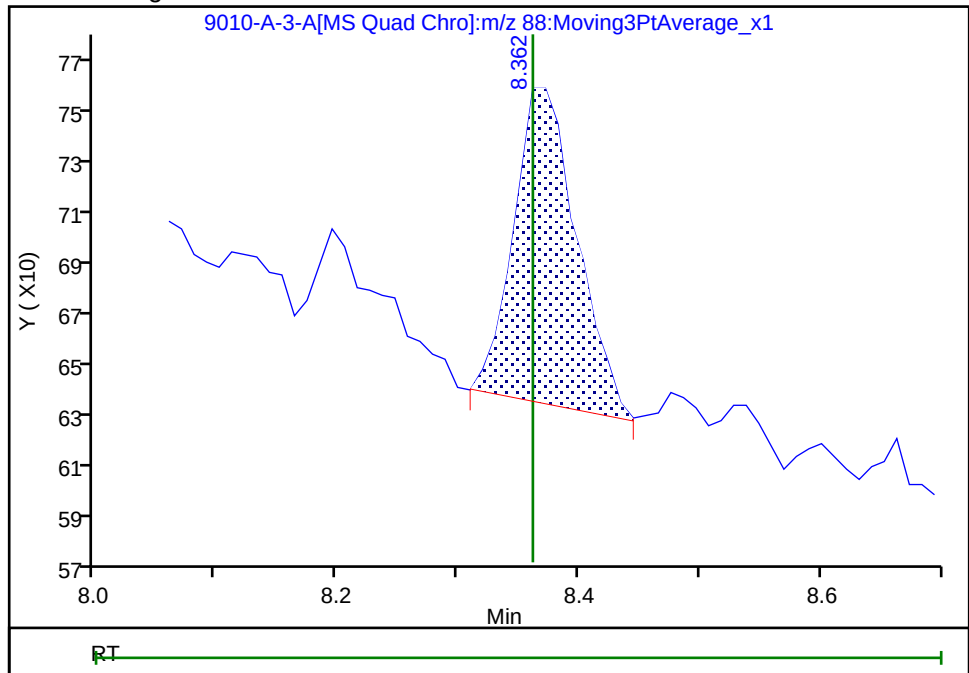
RT: 8.36
Area: 5111
Amount: 15.968606
Amount Units: ug/l

Processing Integration Results



RT: 8.36
Area: 448
Amount: 1.500291
Amount Units: ug/l

Manual Integration Results



Reviewer: UBRC, 26-Nov-2024 11:33:18 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Eaton Analytical South Bend	Job No.: 810-129010-1
SDG No.:	
Client Sample ID: BPOW6-10-20241119	Lab Sample ID: 810-129010-4
Matrix: Drinking Water	Lab File ID: 810-129010-A-4-C.D
Analysis Method: 522	Date Collected: 11/19/2024 11:00
Extract. Method: 522	Date Extracted: 11/25/2024 04:36
Sample wt/vol: 100 (mL)	Date Analyzed: 11/25/2024 18:26
Con. Extract Vol.: 2 (mL)	Dilution Factor: 1
Injection Volume: 1 (uL)	GC Column: CPSelect 624 MS ID: 0.25 (mm)
% Moisture: % Solids:	GPC Cleanup: (Y/N) N
Cleanup Factor:	Level: (low/med) Low
Analysis Batch No.: 124118	Units: ug/L
Preparation Batch No.: 124065	Instrument ID: GCMS-FE

CAS NO.	COMPOUND NAME	RESULT	Q	RL
123-91-1	1,4-Dioxane	<0.070		0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8 (Surr)	98		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-4-C.D
 Lims ID: 810-129010-A-4-C
 Client ID: BPOW6-10-20241119
 Sample Type: Client
 Inject. Date: 25-Nov-2024 18:26:16 ALS Bottle#: 19 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0031753-018
 Misc. Info.: 810-129010-A-4-C
 Operator ID: BC Instrument ID: GCMS-FE
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 26-Nov-2024 13:37:35 Calib Date: 20-Nov-2024 18:02:23
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 12:37:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.212	6.212	0.000	24	173268	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.289	8.289	0.000	100	153467	489.7	
11 1,4-Dioxane	88	8.372	8.361	0.011	73	305	1.05	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-4-C.D

Injection Date: 25-Nov-2024 18:26:16

Instrument ID: GCMS-FE

Lims ID: 810-129010-A-4-C

Lab Sample ID: 810-129010-4

Client ID: BPOW6-10-20241119

Operator ID: BC

ALS Bottle#: 19

Worklist Smp#: 18

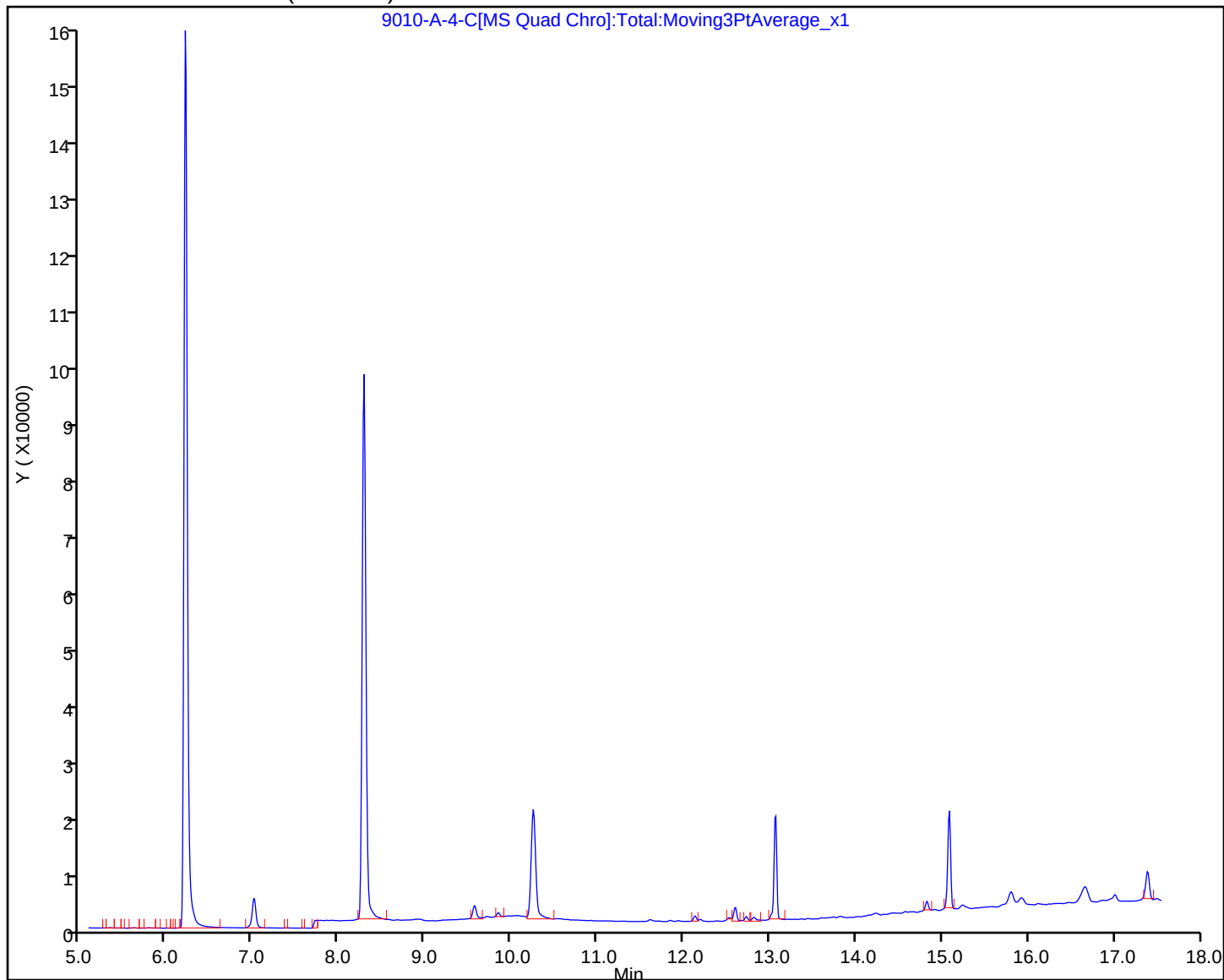
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend
Recovery Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-4-C.D
Lims ID: 810-129010-A-4-C
Client ID: BPOW6-10-20241119
Sample Type: Client
Inject. Date: 25-Nov-2024 18:26:16 ALS Bottle#: 19 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-018
Misc. Info.: 810-129010-A-4-C
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:37:35 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 12:37:34

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	489.7	97.94

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-4-C.D

Injection Date: 25-Nov-2024 18:26:16

Instrument ID: GCMS-FE

Lims ID: 810-129010-A-4-C

Lab Sample ID: 810-129010-4

Client ID: BPOW6-10-20241119

Operator ID: BC

ALS Bottle#:

19

Worklist Smp#: 18

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)

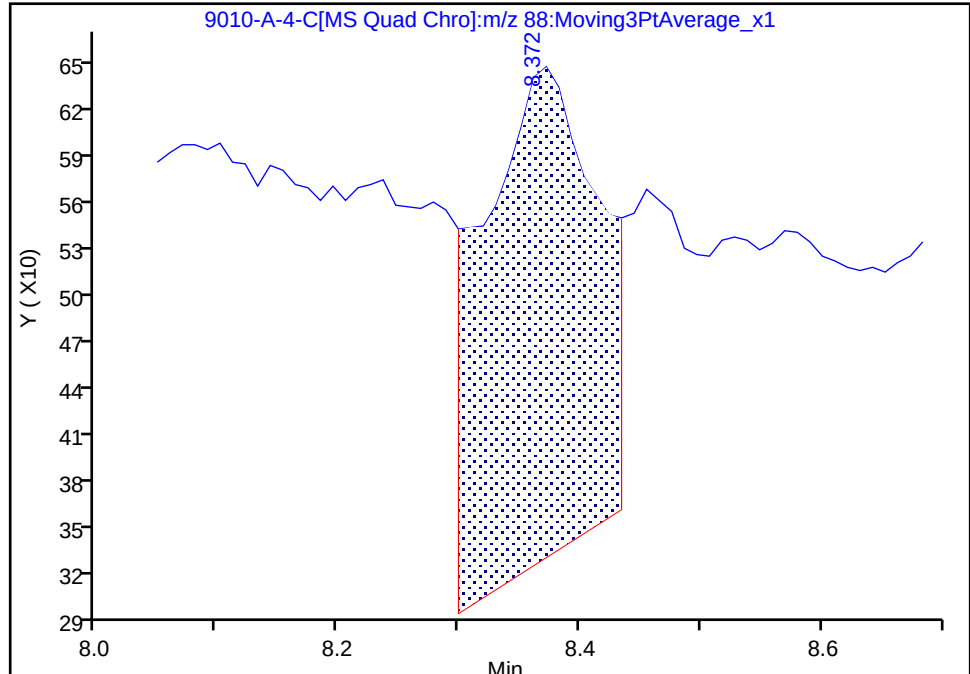
Detector MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

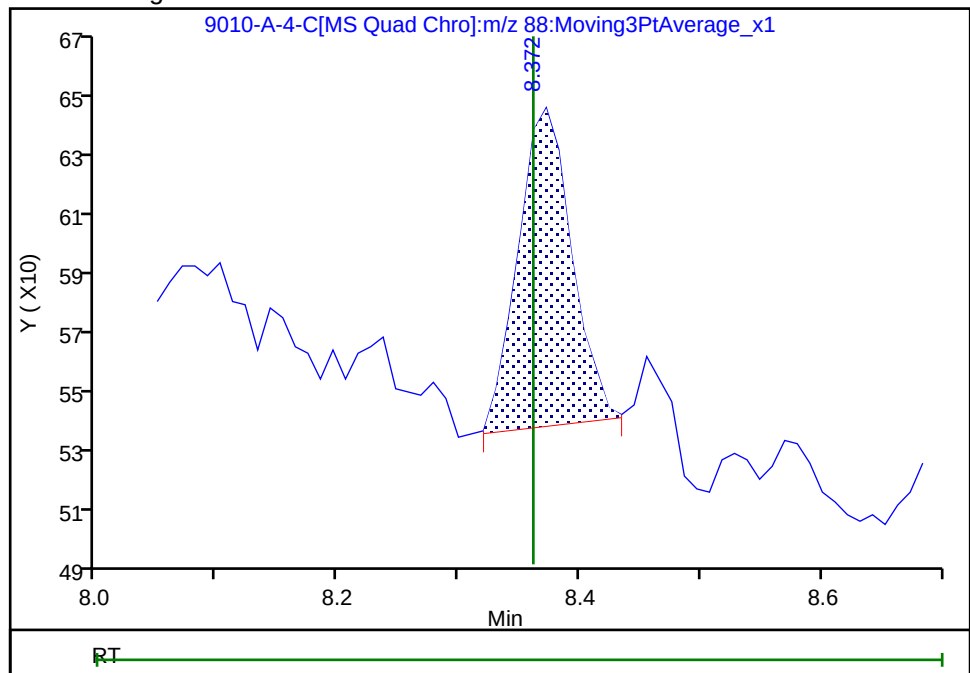
RT: 8.37
Area: 2161
Amount: 6.778493
Amount Units: ug/l

Processing Integration Results



RT: 8.37
Area: 305
Amount: 1.051387
Amount Units: ug/l

Manual Integration Results



Reviewer: UBRC, 26-Nov-2024 12:37:16 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Eaton Analytical South Bend	Job No.: 810-129010-1
SDG No.:	
Client Sample ID: BPOW6-9-20241119	Lab Sample ID: 810-129010-5
Matrix: Drinking Water	Lab File ID: 810-129010-A-5-A.D
Analysis Method: 522	Date Collected: 11/19/2024 12:55
Extract. Method: 522	Date Extracted: 11/25/2024 04:36
Sample wt/vol: 100 (mL)	Date Analyzed: 11/25/2024 14:48
Con. Extract Vol.: 2 (mL)	Dilution Factor: 1
Injection Volume: 1 (uL)	GC Column: CPSelect 624 MS ID: 0.25 (mm)
% Moisture: % Solids:	GPC Cleanup: (Y/N) N
Cleanup Factor:	Level: (low/med) Low
Analysis Batch No.: 124118	Units: ug/L
Preparation Batch No.: 124065	Instrument ID: GCMS-FE

CAS NO.	COMPOUND NAME	RESULT	Q	RL
123-91-1	1,4-Dioxane	0.10		0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8 (Surr)	96		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-5-A.D
Lims ID: 810-129010-A-5-A
Client ID: BPOW6-9-20241119
Sample Type: Client
Inject. Date: 25-Nov-2024 14:48:25 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-008
Misc. Info.: 810-129010-A-5-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:35:56 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 11:34:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.212	6.212	0.000	24	177296	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.289	8.289	0.000	99	154260	481.0	
11 1,4-Dioxane	88	8.372	8.362	0.010	79	1671	5.15	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-5-A.D

Injection Date: 25-Nov-2024 14:48:25

Instrument ID: GCMS-FE

Lims ID: 810-129010-A-5-A

Lab Sample ID: 810-129010-5

Client ID: BPOW6-9-20241119

Operator ID: BC

ALS Bottle#: 9

Worklist Smp#: 8

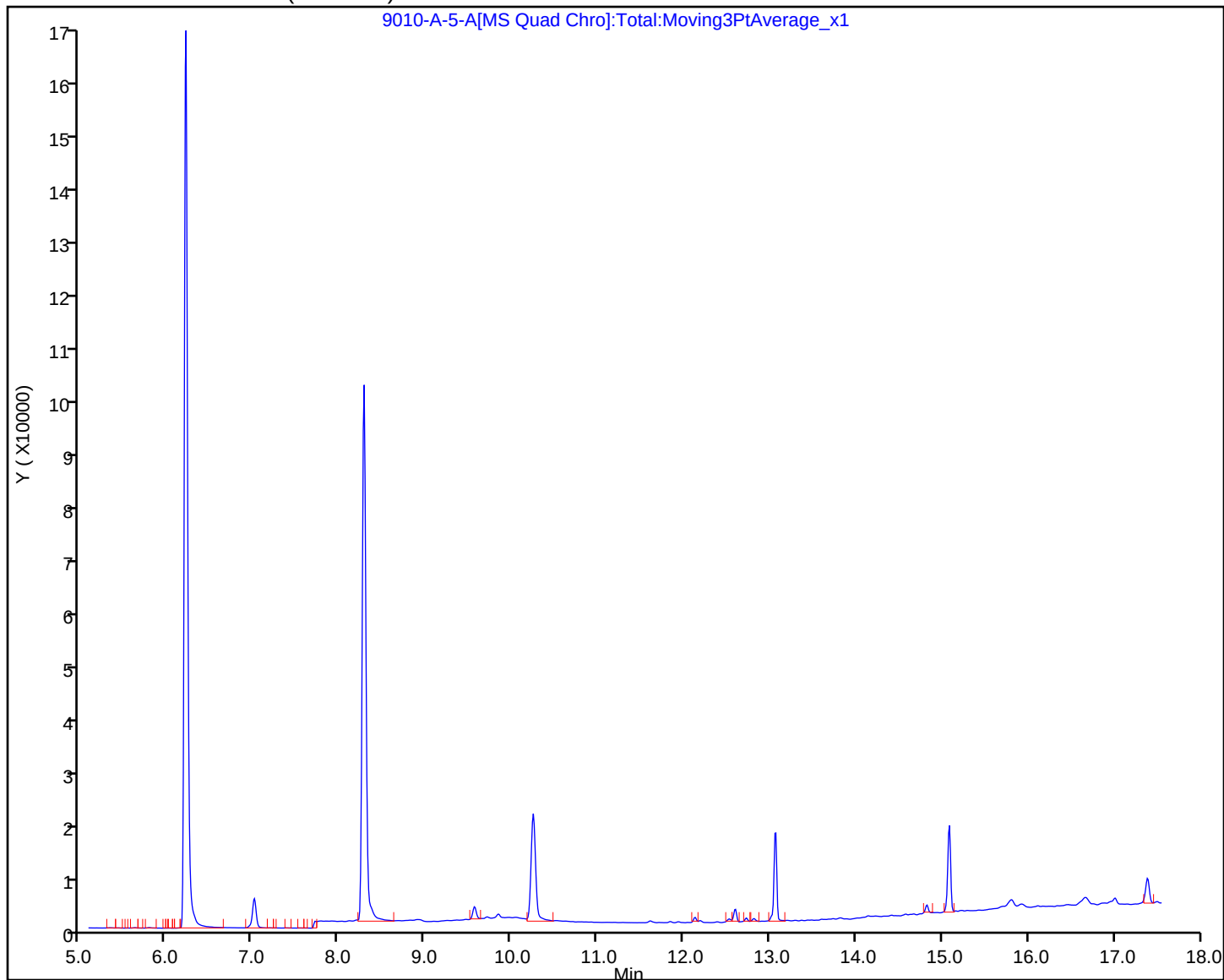
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend
Recovery Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-5-A.D
Lims ID: 810-129010-A-5-A
Client ID: BPOW6-9-20241119
Sample Type: Client
Inject. Date: 25-Nov-2024 14:48:25 ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-008
Misc. Info.: 810-129010-A-5-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:35:56 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 11:34:44

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	481.0	96.21

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-5-A.D

Injection Date: 25-Nov-2024 14:48:25

Instrument ID: GCMS-FE

Lims ID: 810-129010-A-5-A

Lab Sample ID: 810-129010-5

Client ID: BPOW6-9-20241119

Operator ID: BC

ALS Bottle#: 9

Worklist Smp#: 8

Injection Vol: 1.0 ul

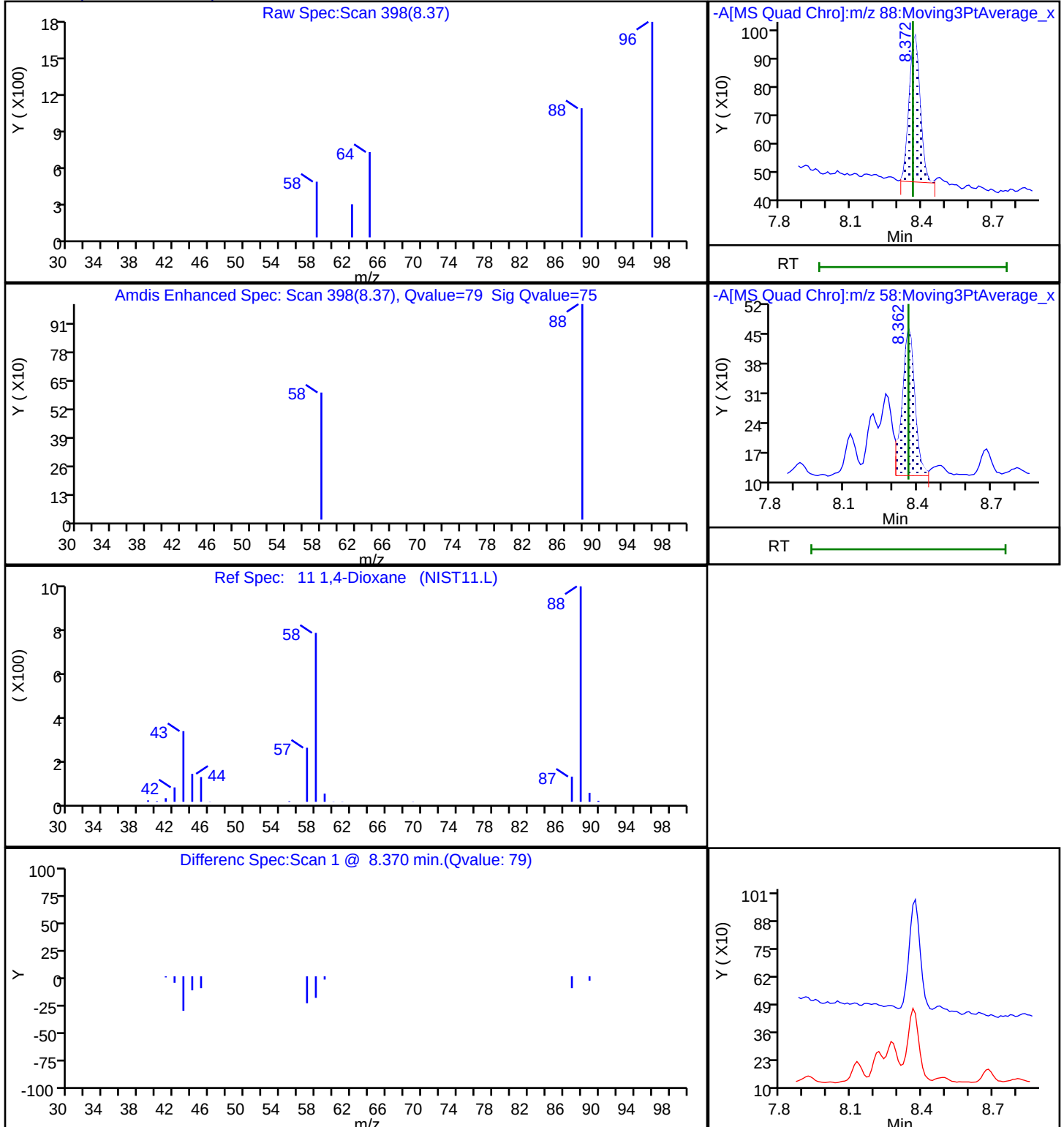
Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector: MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Eurofins Eaton Analytical South Bend

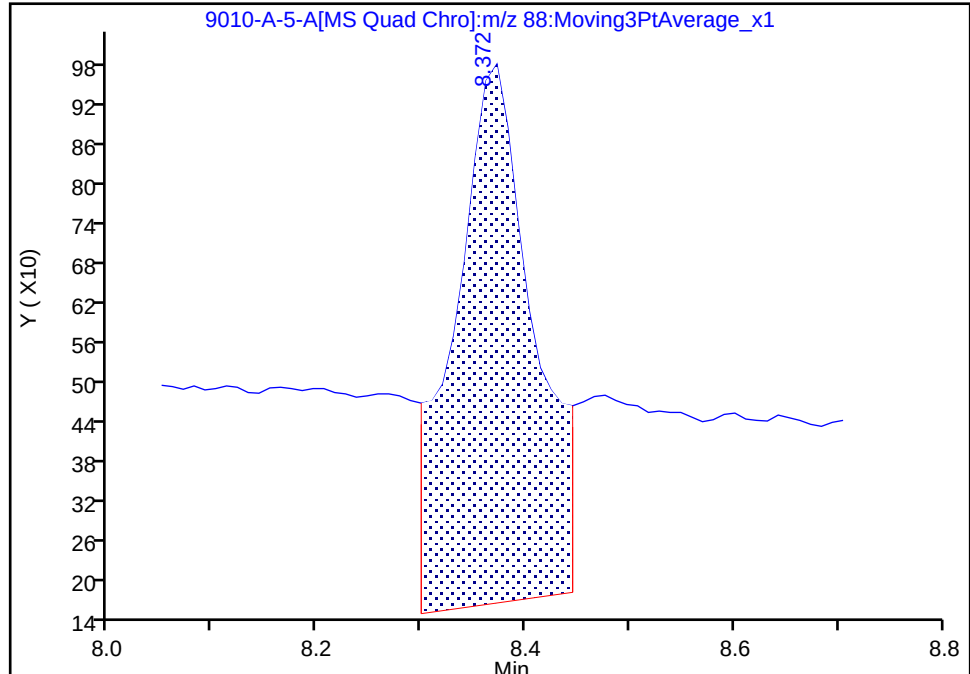
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-5-A.D
Injection Date: 25-Nov-2024 14:48:25 Instrument ID: GCMS-FE
Lims ID: 810-129010-A-5-A Lab Sample ID: 810-129010-5
Client ID: BPOW6-9-20241119
Operator ID: BC ALS Bottle#: 9 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector: MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

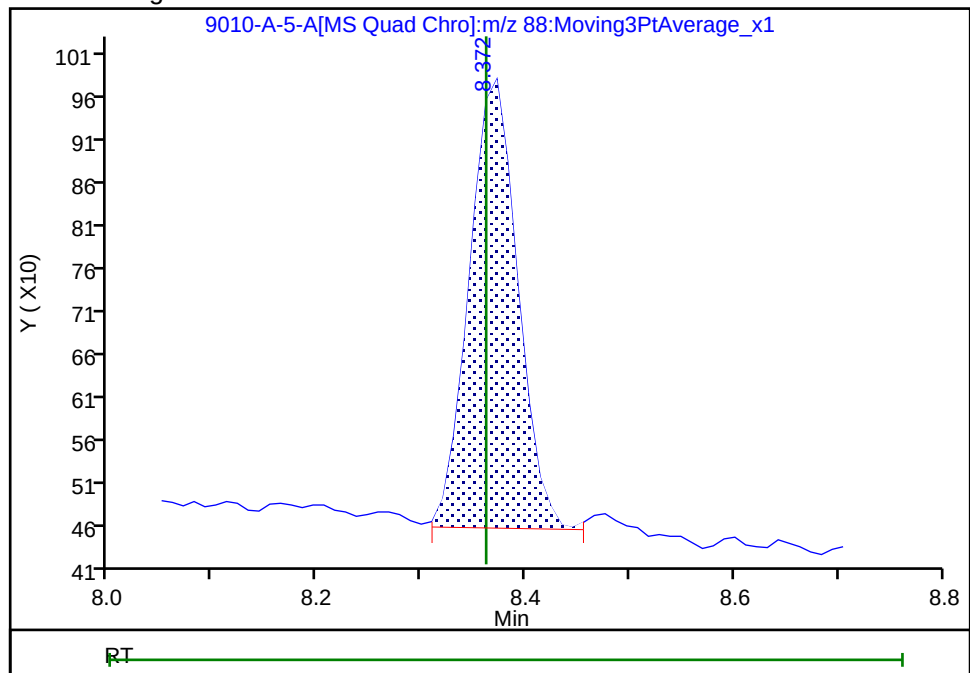
RT: 8.37
Area: 4453
Amount: 13.538799
Amount Units: ug/l

Processing Integration Results



RT: 8.37
Area: 1671
Amount: 5.149342
Amount Units: ug/l

Manual Integration Results



Reviewer: UBRC, 26-Nov-2024 11:33:53 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Eaton Analytical South Bend	Job No.: 810-129010-1
SDG No.:	
Client Sample ID: FB-01-20241119	Lab Sample ID: 810-129010-6
Matrix: Drinking Water	Lab File ID: 810-129010-A-6-A.D
Analysis Method: 522	Date Collected: 11/19/2024 13:30
Extract. Method: 522	Date Extracted: 11/25/2024 04:36
Sample wt/vol: 100 (mL)	Date Analyzed: 11/25/2024 15:10
Con. Extract Vol.: 2 (mL)	Dilution Factor: 1
Injection Volume: 1 (uL)	GC Column: CPSelect 624 MS ID: 0.25 (mm)
% Moisture: % Solids:	GPC Cleanup: (Y/N) N
Cleanup Factor:	Level: (low/med) Low
Analysis Batch No.: 124118	Units: ug/L
Preparation Batch No.: 124065	Instrument ID: GCMS-FE

CAS NO.	COMPOUND NAME	RESULT	Q	RL
123-91-1	1,4-Dioxane	<0.070		0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8 (Surr)	96		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-6-A.D
 Lims ID: 810-129010-A-6-A
 Client ID: FB-01-20241119
 Sample Type: Client
 Inject. Date: 25-Nov-2024 15:10:16 ALS Bottle#: 10 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0031753-009
 Misc. Info.: 810-129010-A-6-A
 Operator ID: BC Instrument ID: GCMS-FE
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 26-Nov-2024 13:35:56 Calib Date: 20-Nov-2024 18:02:23
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 11:35:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.220	6.212	0.008	24	177975	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.289	8.289	0.000	99	153965	478.3	
11 1,4-Dioxane	88	8.362	8.362	0.000	75	299	1.01	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-6-A.D

Injection Date: 25-Nov-2024 15:10:16

Instrument ID: GCMS-FE

Lims ID: 810-129010-A-6-A

Lab Sample ID: 810-129010-6

Client ID: FB-01-20241119

Operator ID: BC

ALS Bottle#: 10

Worklist Smp#: 9

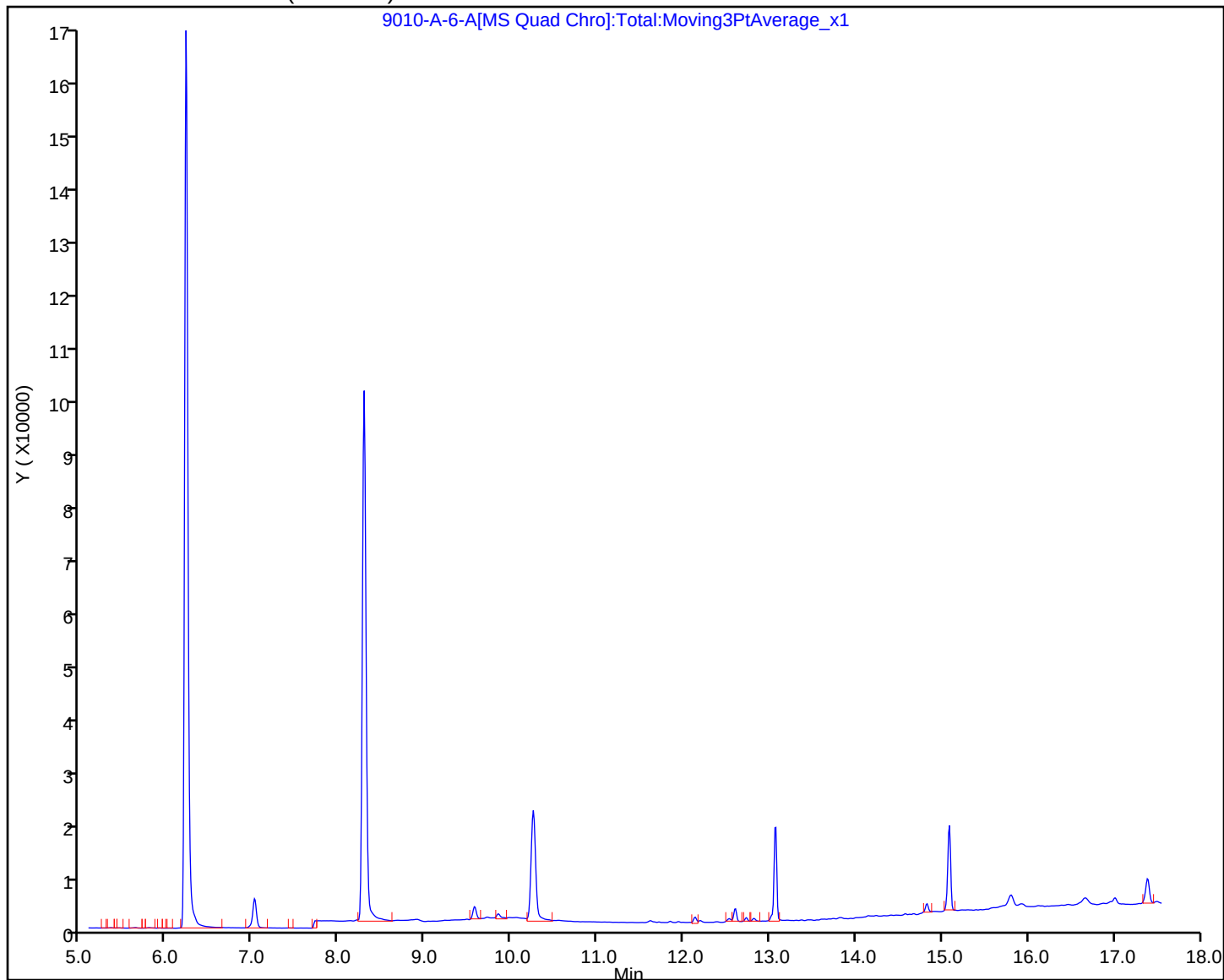
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend
Recovery Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-6-A.D
Lims ID: 810-129010-A-6-A
Client ID: FB-01-20241119
Sample Type: Client
Inject. Date: 25-Nov-2024 15:10:16 ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-009
Misc. Info.: 810-129010-A-6-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:35:56 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 11:35:18

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	478.3	95.66

Eurofins Eaton Analytical South Bend

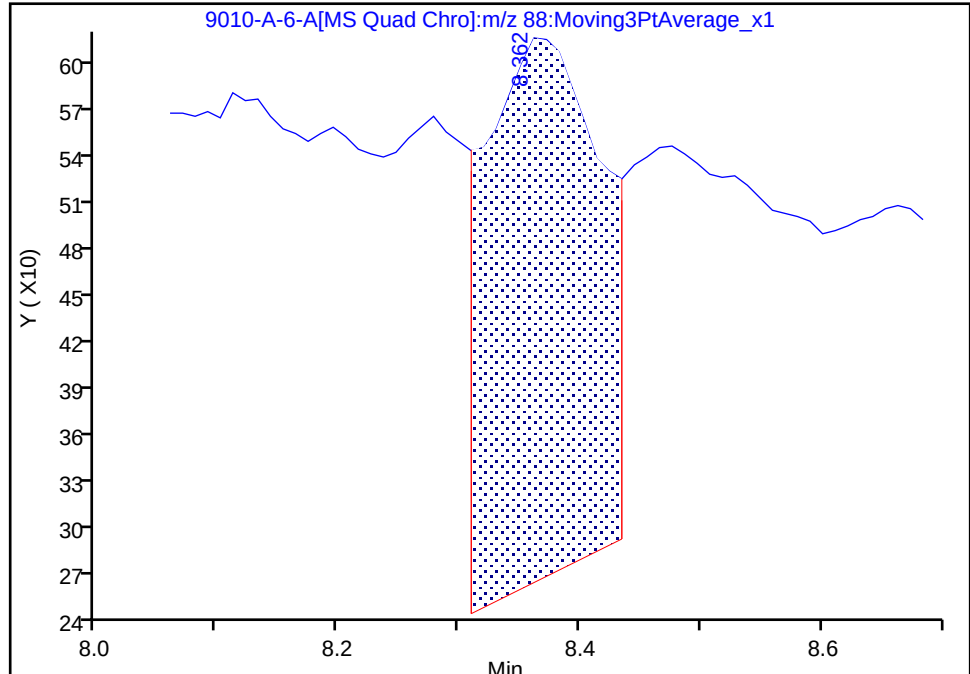
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-6-A.D
Injection Date: 25-Nov-2024 15:10:16 Instrument ID: GCMS-FE
Lims ID: 810-129010-A-6-A Lab Sample ID: 810-129010-6
Client ID: FB-01-20241119
Operator ID: BC ALS Bottle#: 10 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector: MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

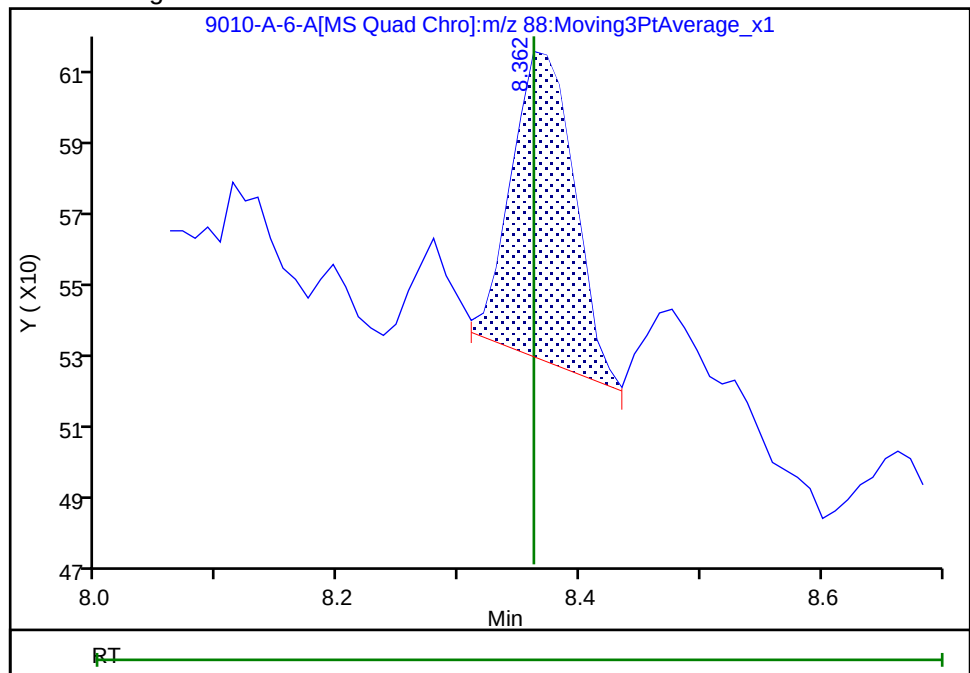
RT: 8.36
Area: 2415
Amount: 7.365180
Amount Units: ug/l

Processing Integration Results



RT: 8.36
Area: 299
Amount: 1.008471
Amount Units: ug/l

Manual Integration Results



Reviewer: UBRC, 26-Nov-2024 11:34:54 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Eaton Analytical South Bend
Job No.: 810-129010-1

SDG No.: _____

Client Sample ID: BPOW6-8-20241119
Lab Sample ID: 810-129010-7

Matrix: Drinking Water
Lab File ID: 810-129010-A-7-A.D

Analysis Method: 522
Date Collected: 11/19/2024 15:05

Extract. Method: 522
Date Extracted: 11/25/2024 04:36

Sample wt/vol: 100 (mL)
Date Analyzed: 11/25/2024 15:32

Con. Extract Vol.: 2 (mL)
Dilution Factor: 1

Injection Volume: 1 (uL)
GC Column: CPSelect 624 MS ID: 0.25 (mm)

% Moisture: _____ % Solids: _____
GPC Cleanup: (Y/N) N

Cleanup Factor: _____
Level: (low/med) Low

Analysis Batch No.: 124118
Units: ug/L

Preparation Batch No.: 124065
Instrument ID: GCMS-FE

CAS NO.	COMPOUND NAME	RESULT	Q	RL
123-91-1	1,4-Dioxane	<0.070		0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8 (Surr)	90		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-7-A.D
Lims ID: 810-129010-A-7-A
Client ID: BPOW6-8-20241119
Sample Type: Client
Inject. Date: 25-Nov-2024 15:32:04 ALS Bottle#: 11 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-010
Misc. Info.: 810-129010-A-7-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:35:56 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 12:11:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.220	6.212	0.008	27	180383	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.289	8.289	0.000	99	146242	448.2	
11 1,4-Dioxane	88	8.383	8.362	0.021	71	255	0.8661	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-7-A.D

Injection Date: 25-Nov-2024 15:32:04

Instrument ID: GCMS-FE

Lims ID: 810-129010-A-7-A

Lab Sample ID: 810-129010-7

Client ID: BPOW6-8-20241119

Operator ID: BC

ALS Bottle#: 11

Worklist Smp#: 10

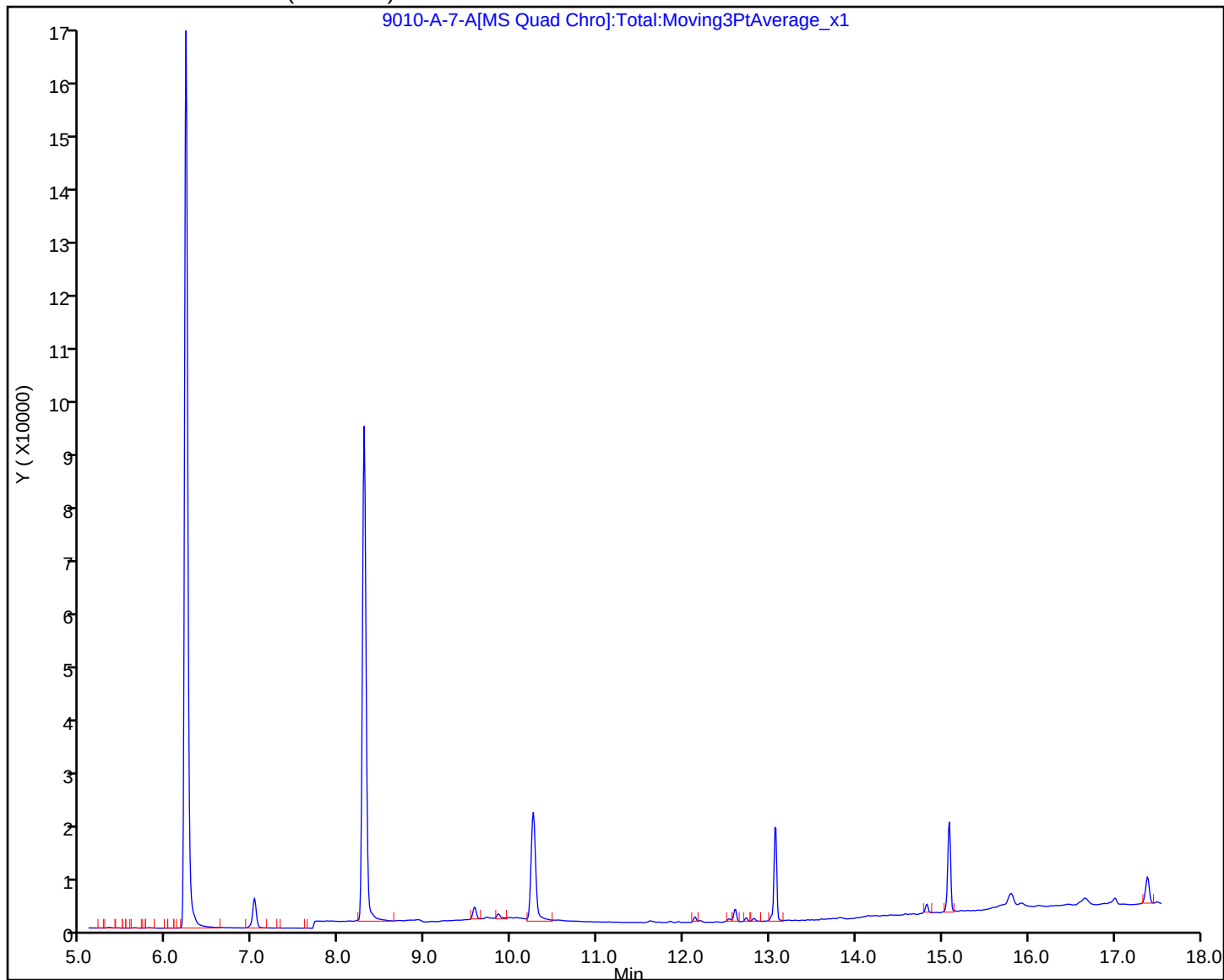
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend
Recovery Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-7-A.D
Lims ID: 810-129010-A-7-A
Client ID: BPOW6-8-20241119
Sample Type: Client
Inject. Date: 25-Nov-2024 15:32:04 ALS Bottle#: 11 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-010
Misc. Info.: 810-129010-A-7-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:35:56 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 12:11:01

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	448.2	89.65

Eurofins Eaton Analytical South Bend

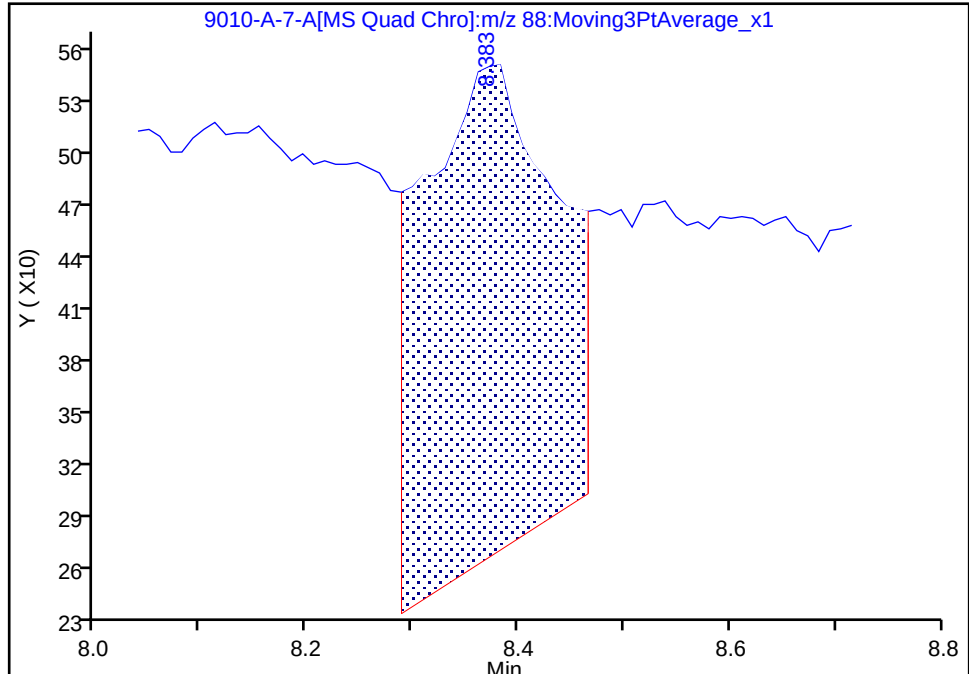
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-7-A.D
Injection Date: 25-Nov-2024 15:32:04 Instrument ID: GCMS-FE
Lims ID: 810-129010-A-7-A Lab Sample ID: 810-129010-7
Client ID: BPOW6-8-20241119
Operator ID: BC ALS Bottle#: 11 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector: MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

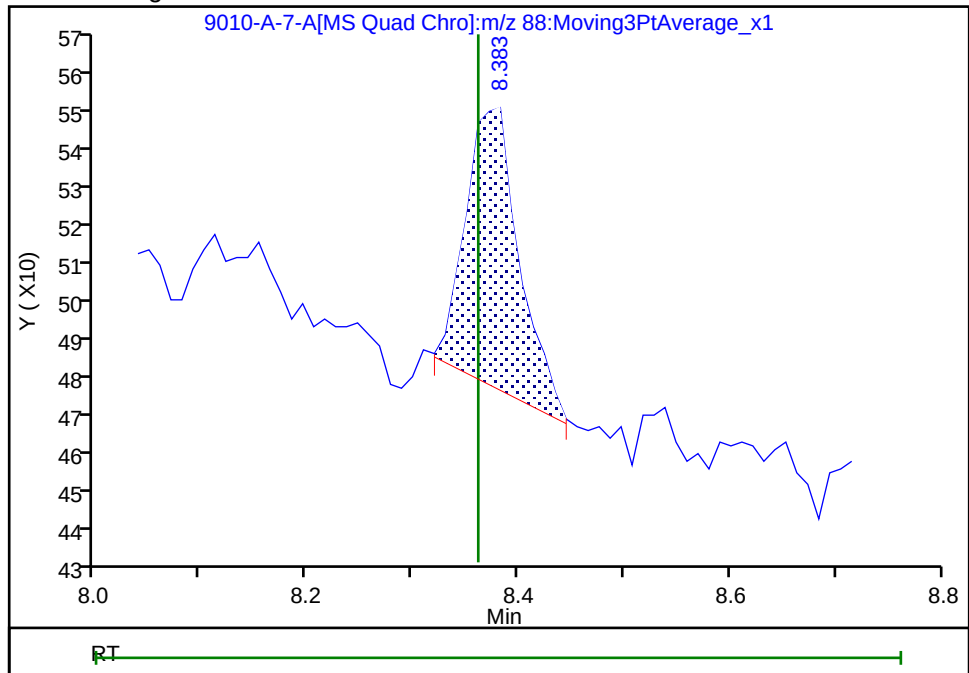
RT: 8.38
Area: 2575
Amount: 7.742573
Amount Units: ug/l

Processing Integration Results



RT: 8.38
Area: 255
Amount: 0.866064
Amount Units: ug/l

Manual Integration Results



Reviewer: UBRC, 26-Nov-2024 11:35:41 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Eaton Analytical South
Bend

Job No.: 810-129010-1

SDG No.:

Client Sample ID: RB-01-20241119

Lab Sample ID: 810-129010-8

Matrix: Drinking Water

Lab File ID: 810-129010-A-8-A.D

Analysis Method: 522

Date Collected: 11/19/2024 16:30

Extract. Method: 522

Date Extracted: 11/25/2024 04:36

Sample wt/vol: 100 (mL)

Date Analyzed: 11/25/2024 15:53

Con. Extract Vol.: 2 (mL)

Dilution Factor: 1

Injection Volume: 1 (uL)

GC Column: CPSelect 624 MS ID: 0.25 (mm)

% Moisture: % Solids:

GPC Cleanup: (Y/N) N

Cleanup Factor:

Level: (low/med) Low

Analysis Batch No.: 124118

Units: ug/L

Preparation Batch No.: 124065

Instrument ID: GCMS-FE

CAS NO.	COMPOUND NAME	RESULT	Q	RL
123-91-1	1,4-Dioxane	<0.070		0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8 (Surr)	85		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-8-A.D
Lims ID: 810-129010-A-8-A
Client ID: RB-01-20241119
Sample Type: Client
Inject. Date: 25-Nov-2024 15:53:52 ALS Bottle#: 12 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-011
Misc. Info.: 810-129010-A-8-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:35:56 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 12:12:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.212	6.212	0.000	24	175146	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.289	8.289	0.000	100	135310	427.1	
11 1,4-Dioxane	88	8.362	8.362	0.000	61	127	0.4979	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-8-A.D

Injection Date: 25-Nov-2024 15:53:52

Instrument ID: GCMS-FE

Lims ID: 810-129010-A-8-A

Lab Sample ID: 810-129010-8

Client ID: RB-01-20241119

Operator ID: BC

ALS Bottle#: 12

Worklist Smp#: 11

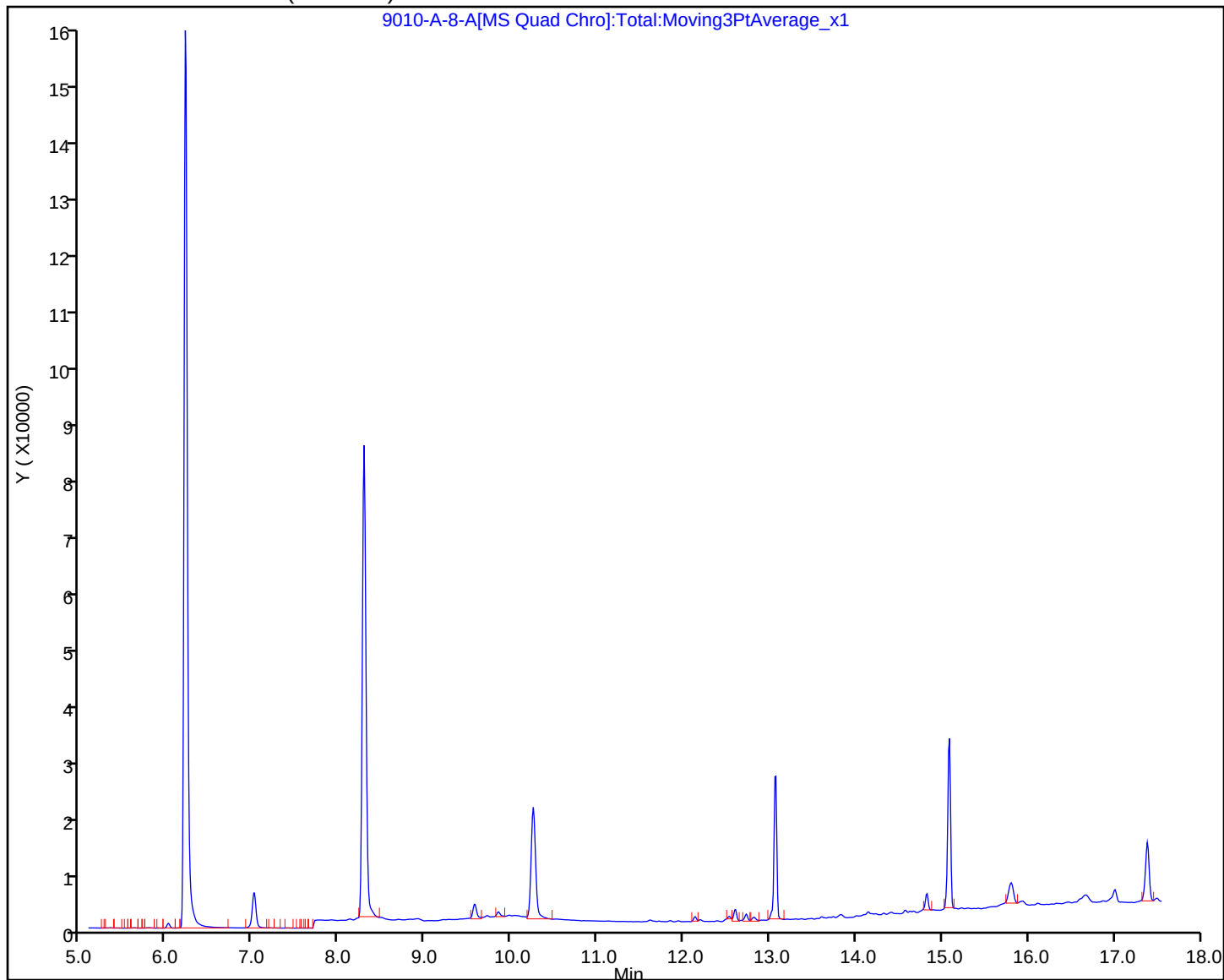
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend
Recovery Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-8-A.D
Lims ID: 810-129010-A-8-A
Client ID: RB-01-20241119
Sample Type: Client
Inject. Date: 25-Nov-2024 15:53:52 ALS Bottle#: 12 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-011
Misc. Info.: 810-129010-A-8-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:35:56 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 12:12:27

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	427.1	85.43

Eurofins Eaton Analytical South Bend

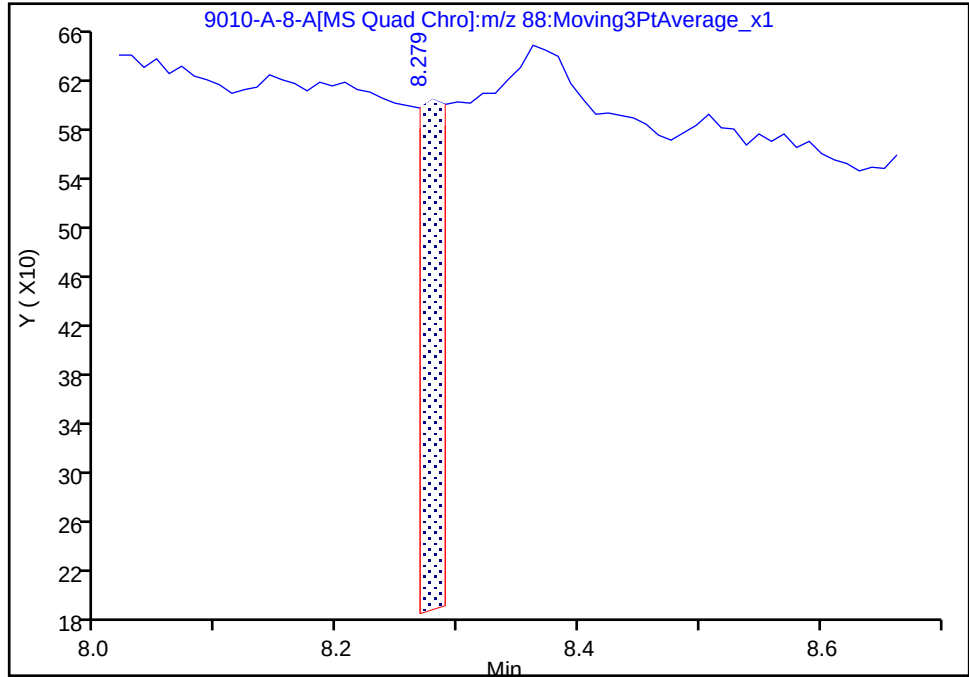
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-8-A.D
Injection Date: 25-Nov-2024 15:53:52 Instrument ID: GCMS-FE
Lims ID: 810-129010-A-8-A Lab Sample ID: 810-129010-8
Client ID: RB-01-20241119
Operator ID: BC ALS Bottle#: 12 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector: MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

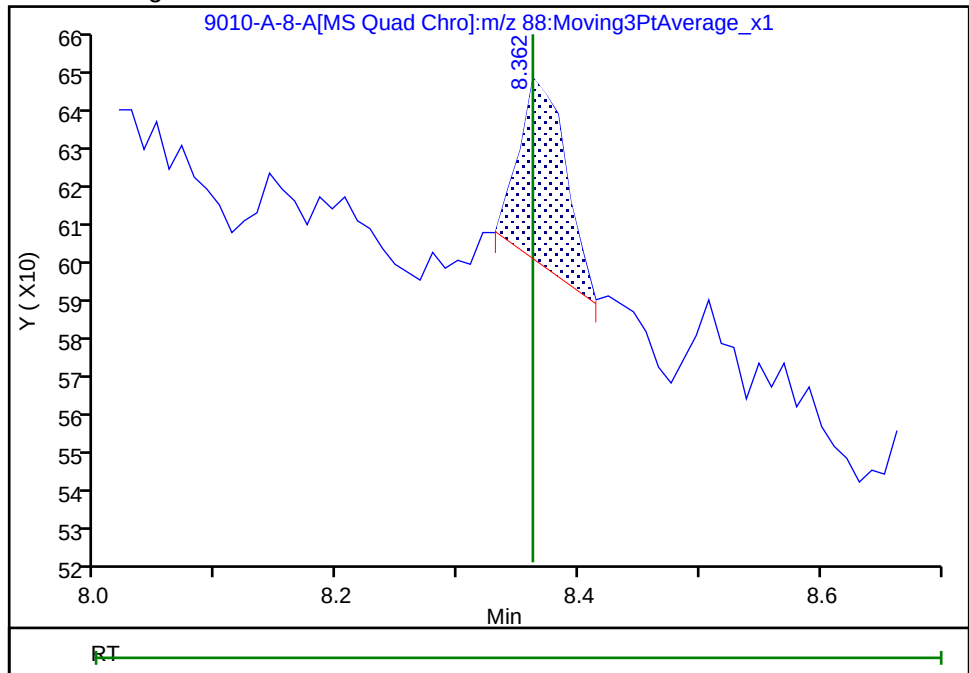
RT: 8.28
Area: 769
Amount: 2.457720
Amount Units: ug/l

Processing Integration Results



RT: 8.36
Area: 127
Amount: 0.497926
Amount Units: ug/l

Manual Integration Results



Reviewer: UBRC, 26-Nov-2024 13:32:48 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Wrong peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Eaton Analytical South Bend	Job No.: 810-129010-1
SDG No.:	
Client Sample ID: DUP-02-20241119	Lab Sample ID: 810-129010-9
Matrix: Drinking Water	Lab File ID: 810-129010-A-9-A.D
Analysis Method: 522	Date Collected: 11/19/2024 12:00
Extract. Method: 522	Date Extracted: 11/25/2024 04:36
Sample wt/vol: 100 (mL)	Date Analyzed: 11/25/2024 16:15
Con. Extract Vol.: 2 (mL)	Dilution Factor: 1
Injection Volume: 1 (uL)	GC Column: CPSelect 624 MS ID: 0.25 (mm)
% Moisture: % Solids:	GPC Cleanup: (Y/N) N
Cleanup Factor:	Level: (low/med) Low
Analysis Batch No.: 124118	Units: ug/L
Preparation Batch No.: 124065	Instrument ID: GCMS-FE

CAS NO.	COMPOUND NAME	RESULT	Q	RL
123-91-1	1,4-Dioxane	<0.070		0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8 (Surr)	98		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-9-A.D
Lims ID: 810-129010-A-9-A
Client ID: DUP-02-20241119
Sample Type: Client
Inject. Date: 25-Nov-2024 16:15:34 ALS Bottle#: 13 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-012
Misc. Info.: 810-129010-A-9-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:35:56 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 12:13:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.212	6.212	0.000	24	180961	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.289	8.289	0.000	100	161192	492.5	
11 1,4-Dioxane	88	8.372	8.362	0.010	66	260	0.8784	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-9-A.D

Injection Date: 25-Nov-2024 16:15:34

Instrument ID: GCMS-FE

Lims ID: 810-129010-A-9-A

Lab Sample ID: 810-129010-9

Client ID: DUP-02-20241119

Operator ID: BC

ALS Bottle#: 13

Worklist Smp#: 12

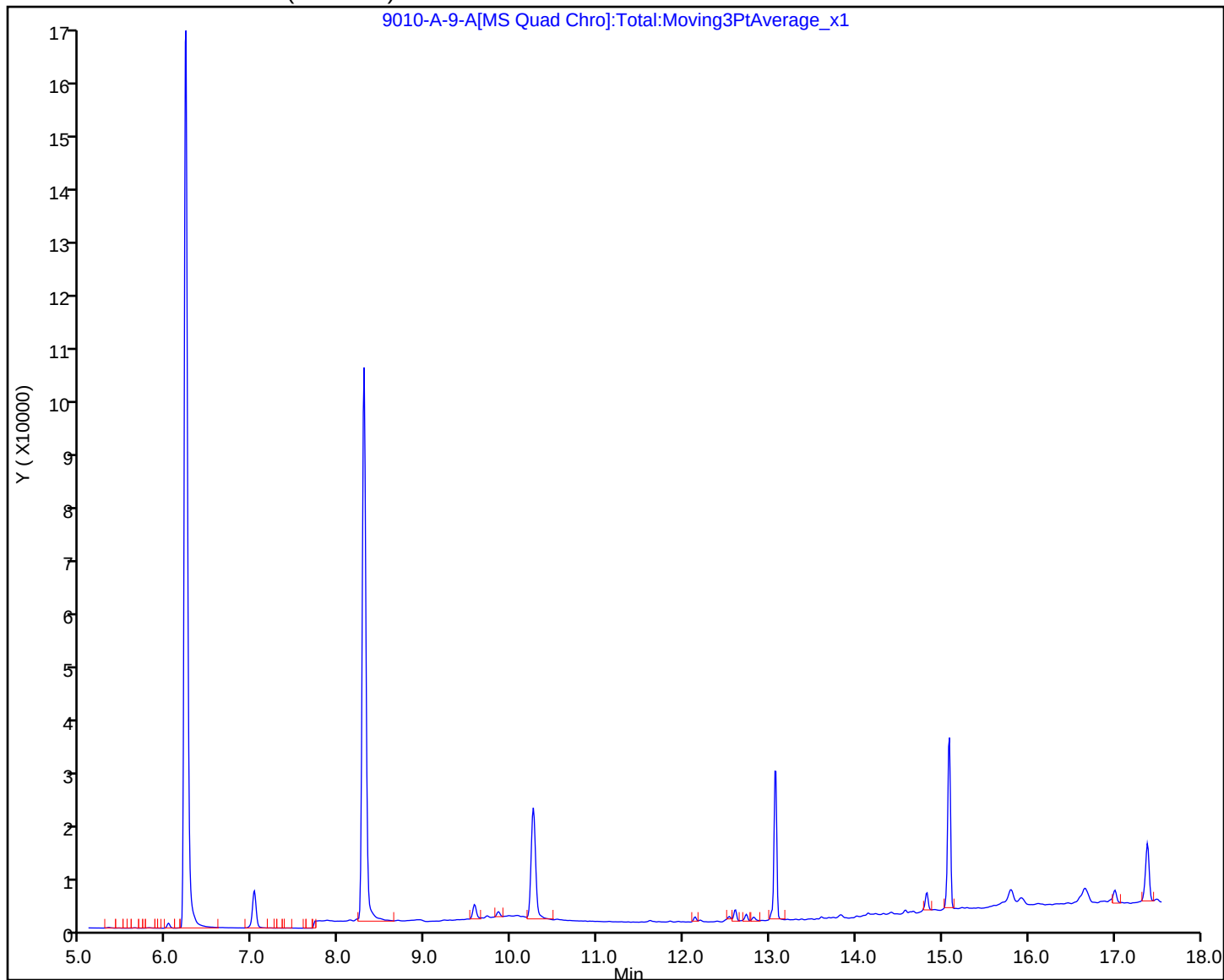
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend
Recovery Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-9-A.D
Lims ID: 810-129010-A-9-A
Client ID: DUP-02-20241119
Sample Type: Client
Inject. Date: 25-Nov-2024 16:15:34 ALS Bottle#: 13 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-012
Misc. Info.: 810-129010-A-9-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:35:56 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 12:13:06

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	492.5	98.50

Eurofins Eaton Analytical South Bend

Data File:	\\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-9-A.D				
Injection Date:	25-Nov-2024 16:15:34	Instrument ID:	GCMS-FE		
Lims ID:	810-129010-A-9-A	Lab Sample ID:	810-129010-9		
Client ID:	DUP-02-20241119				
Operator ID:	BC	ALS Bottle#:	13	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	522_GCMS-FE	Limit Group:	MSS - 522		
Column:	CP Select 624 MS (0.25 mm)	Detector	MS Quad		

11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

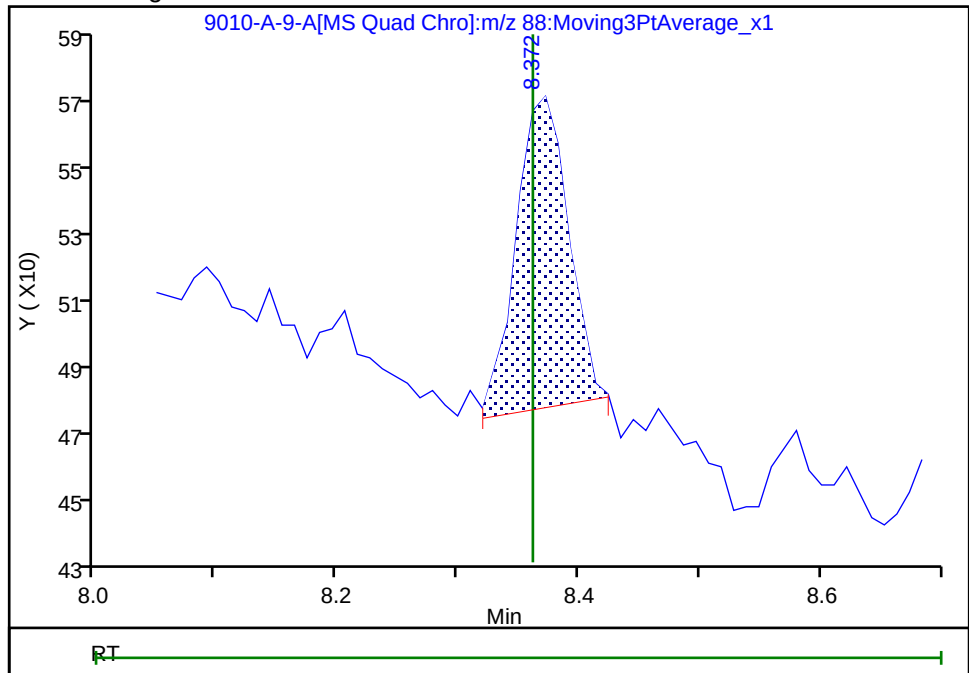
RT: 8.37
Area: 1964
Amount: 5.912967
Amount Units: ug/l

Processing Integration Results



RT: 8.37
Area: 260
Amount: 0.878422
Amount Units: ug/l

Manual Integration Results



Reviewer: UBRC, 26-Nov-2024 12:12:50 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Eaton Analytical South Job No.: 810-129010-1 Analy Batch No.: 123541
Bend

SDG No.:

Instrument ID: GCMS-FE GC Column: CPSelect 62 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/20/2024 15:07 Calibration End Date: 11/20/2024 18:02 Calibration ID: 13962

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 810-123437/4-A	IC 007.D
Level 2	IC 810-123437/5-A	IC 01.D
Level 3	IC 810-123437/6-A	IC 02.D
Level 4	IC 810-123437/7-A	IC 05.D
Level 5	ICISAV 810-123437/8-A	IC 1.D
Level 6	IC 810-123437/9-A	IC 2.D
Level 7	IC 810-123437/10-A	IC 5.D
Level 8	IC 810-123437/11-A	IC 10.D
Level 9	IC 810-123437/12-A	IC 20.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
1,4-Dioxane	0.9297 0.9095	0.9057 0.9716	0.8986 0.9397	0.9310 0.9260	0.9365	Lin1	-0.10 3	0.935 2				2.4					
1,4-Dioxane-d8 (Surr)	0.9342 0.8988	0.8953 0.9039	0.9077 0.8921	0.9079 0.8960	0.9032	Ave		0.904 4				1.4		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-129010-1 Analy Batch No.: 123541
SDG No.: _____
Instrument ID: GCMS-FE GC Column: CPSelect 6 ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/20/2024 15:07 Calibration End Date: 11/20/2024 18:02 Calibration ID: 13962

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 810-123437/4-A	IC 007.D
Level 2	IC 810-123437/5-A	IC 01.D
Level 3	IC 810-123437/6-A	IC 02.D
Level 4	IC 810-123437/7-A	IC 05.D
Level 5	ICISAV 810-123437/8-A	IC 1.D
Level 6	IC 810-123437/9-A	IC 2.D
Level 7	IC 810-123437/10-A	IC 5.D
Level 8	IC 810-123437/11-A	IC 10.D
Level 9	IC 810-123437/12-A	IC 20.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,4-Dioxane	THFd8	Lin1	1141 32014	1616 83938	3160 162242	8014 319816	16239	3.50 100	5.00 250	10.0 500	25.0 1000	50.0
1,4-Dioxane-d8 (Surr)	THFd8	Ave	163801 158173	159755 156175	159608 154029	156310 154721	156621	500 500	500 500	500 500	500 500	500

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-129010-1 Analy Batch No.: 123541
SDG No.: _____
Instrument ID: GCMS-FE GC Column: CPSelect 62 ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/20/2024 15:07 Calibration End Date: 11/20/2024 18:02 Calibration ID: 13962

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 810-123437/4-A	IC 007.D
Level 2	IC 810-123437/5-A	IC 01.D
Level 3	IC 810-123437/6-A	IC 02.D
Level 4	IC 810-123437/7-A	IC 05.D
Level 5	ICISAV 810-123437/8-A	IC 1.D
Level 6	IC 810-123437/9-A	IC 2.D
Level 7	IC 810-123437/10-A	IC 5.D
Level 8	IC 810-123437/11-A	IC 10.D
Level 9	IC 810-123437/12-A	IC 20.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #				LVL 7	LVL 8	LVL 9			
1,4-Dioxane	2.6	-0.9	-2.8	0.0	0.4	-2.6	40	20	20	20	20	20
	3.9	0.5	-1.0				20	20	20			

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 007.D
 Lims ID: IC 810-123437/4-A
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 20-Nov-2024 15:07:10 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0031576-003
 Misc. Info.: IC 810-123437/4-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 21-Nov-2024 10:07:40 Calib Date: 20-Nov-2024 18:02:23
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1618

First Level Reviewer: JH8B

Date: 21-Nov-2024 09:57:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.204	6.212	-0.008	24	175331	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.279	8.279	0.000	99	163801	500.0	516.5	
11 1,4-Dioxane	88	8.362	8.362	0.000	80	1141	3.50	3.59	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 007.D

Injection Date: 20-Nov-2024 15:07:10

Instrument ID: GCMS-FE

Lims ID: IC 810-123437/4-A

Client ID:

Operator ID: BC

ALS Bottle#:

3

Worklist Smp#:

3

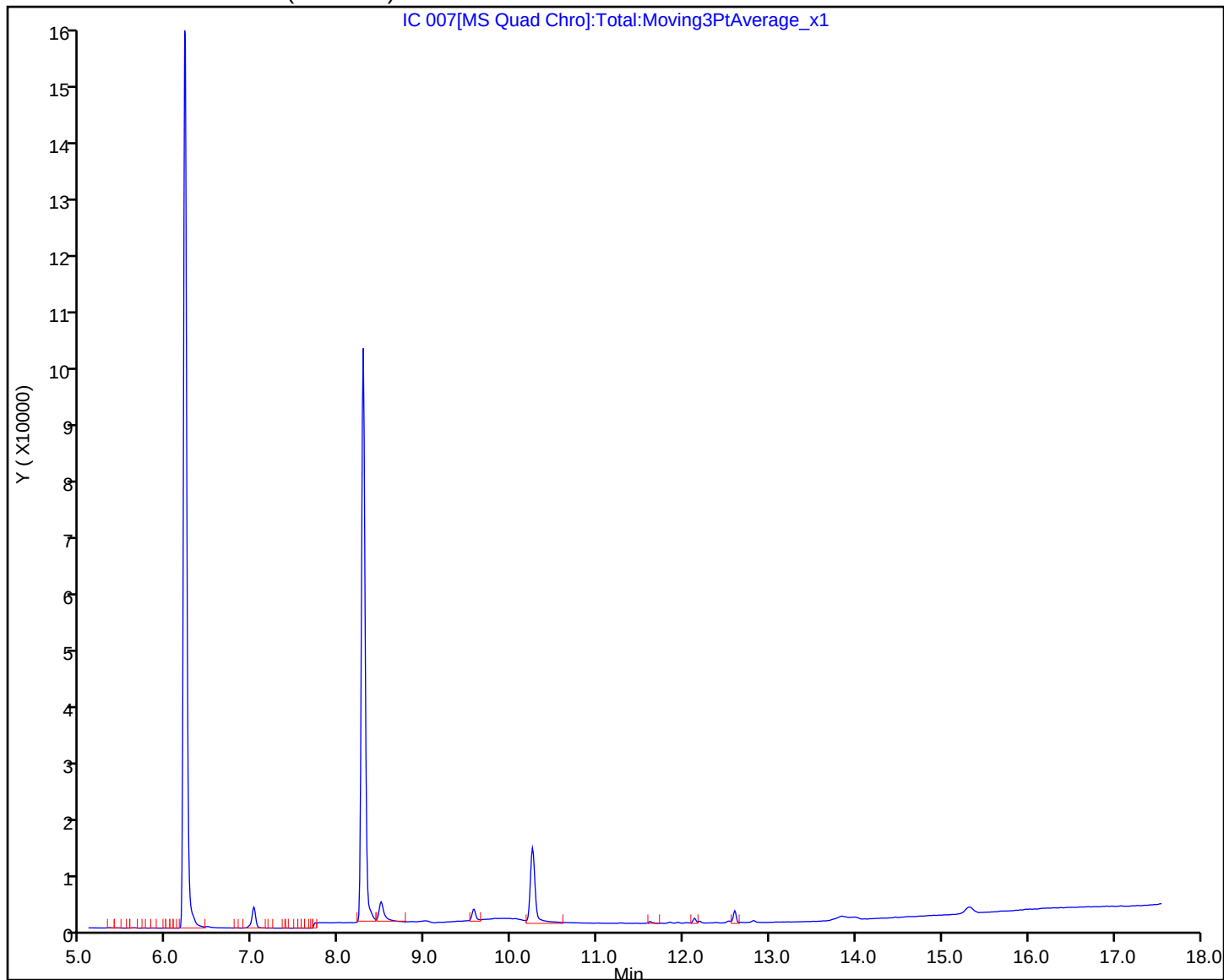
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

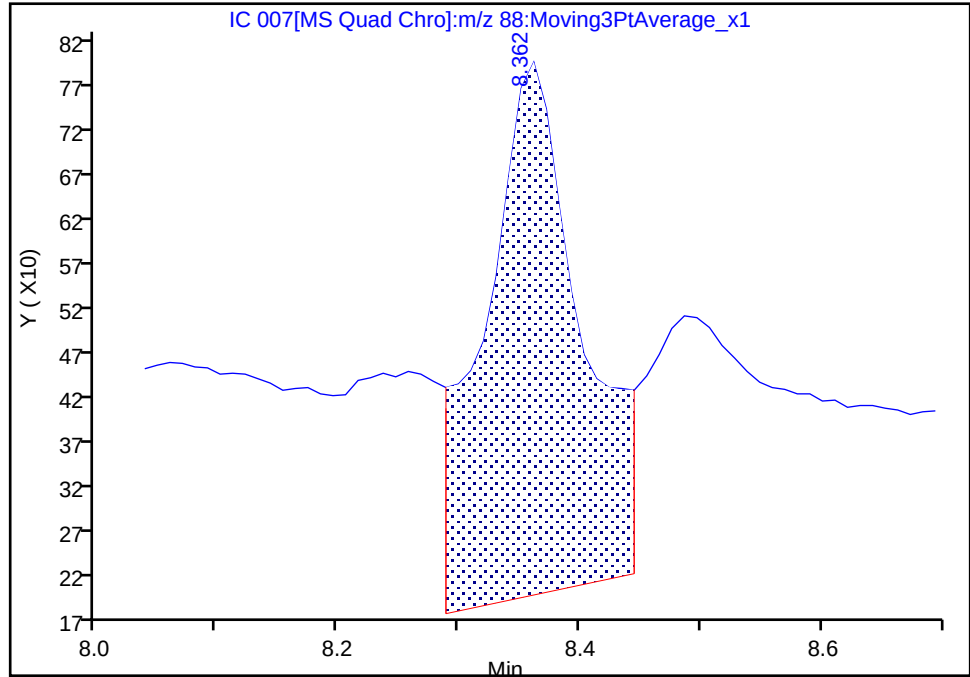
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 007.D
Injection Date: 20-Nov-2024 15:07:10 Instrument ID: GCMS-FE
Lims ID: IC 810-123437/4-A
Client ID:
Operator ID: BC ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

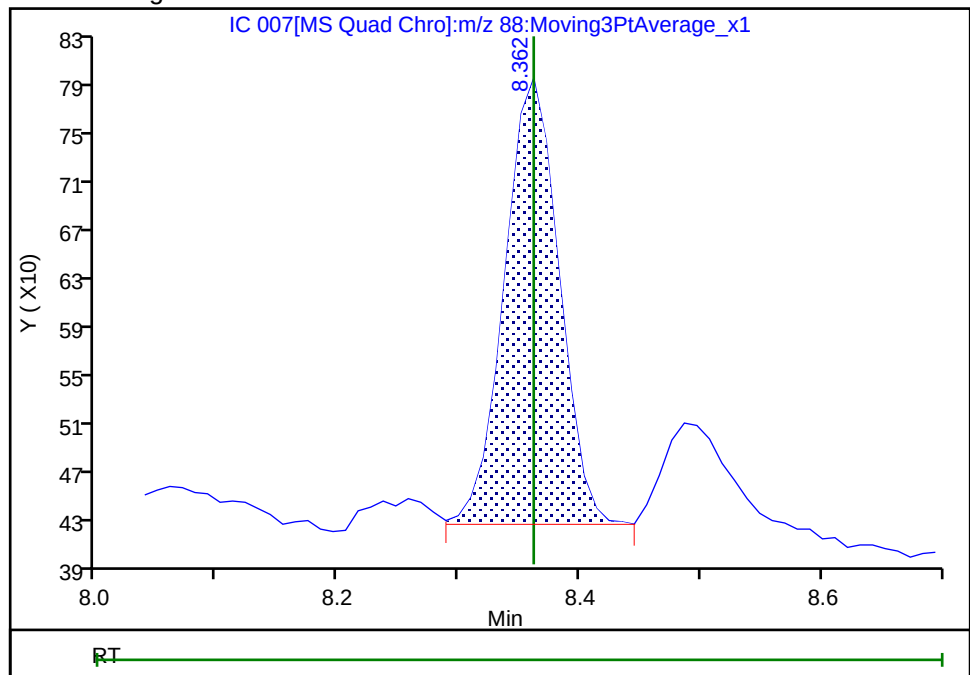
RT: 8.36
Area: 3421
Amount: 4.285229
Amount Units: ug/l

Processing Integration Results



RT: 8.36
Area: 1141
Amount: 3.589626
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 21-Nov-2024 09:57:27 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 007.D

Injection Date: 20-Nov-2024 15:07:10

Instrument ID: GCMS-FE

Lims ID: IC 810-123437/4-A

Client ID:

Operator ID: BC

ALS Bottle#:

3

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

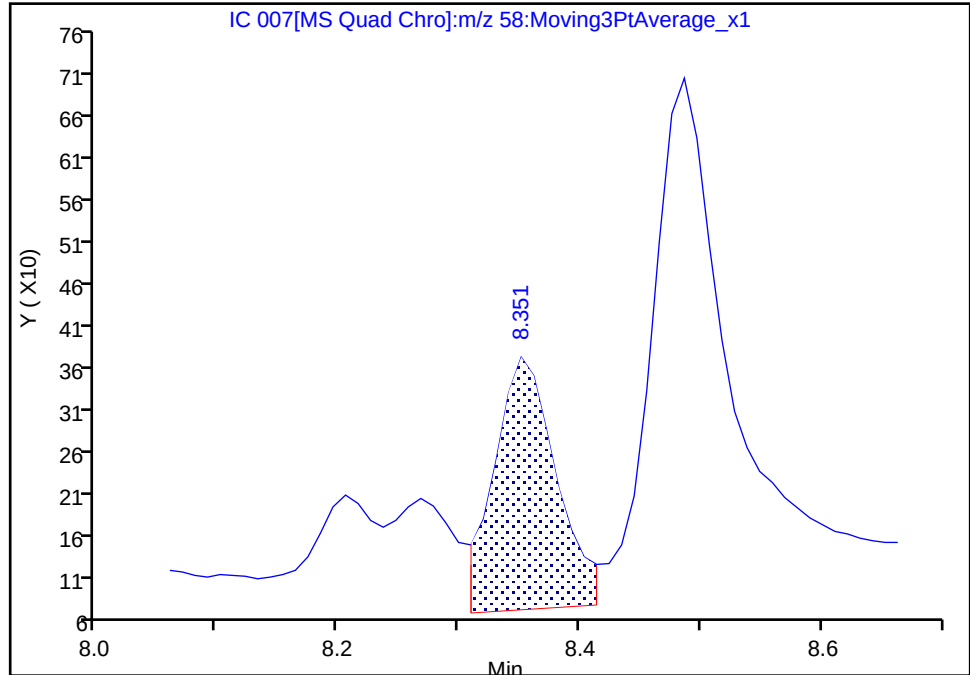
MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 2

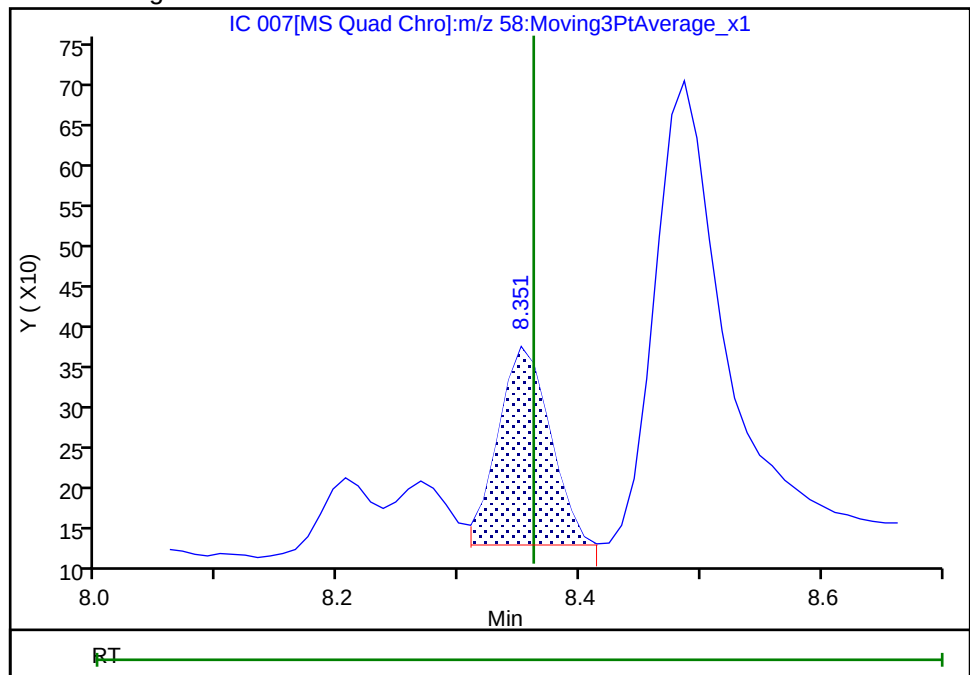
RT: 8.35
Area: 1097
Amount: 4.285229
Amount Units: ug/l

Processing Integration Results



RT: 8.35
Area: 748
Amount: 3.589626
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 21-Nov-2024 09:57:42 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 102 of 189

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 01.D
 Lims ID: IC 810-123437/5-A
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 20-Nov-2024 15:29:08 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0031576-004
 Misc. Info.: IC 810-123437/5-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 21-Nov-2024 10:07:41 Calib Date: 20-Nov-2024 18:02:23
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1618

First Level Reviewer: JH8B

Date: 21-Nov-2024 09:57:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.204	6.212	-0.008	24	178429	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.279	8.279	0.000	99	159755	500.0	495.0	
11 1,4-Dioxane	88	8.362	8.362	0.000	80	1616	5.00	4.95	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 01.D

Injection Date: 20-Nov-2024 15:29:08

Instrument ID: GCMS-FE

Lims ID: IC 810-123437/5-A

Client ID:

Operator ID: BC

ALS Bottle#:

4

Worklist Smp#:

4

Injection Vol: 1.0 ul

Dil. Factor:

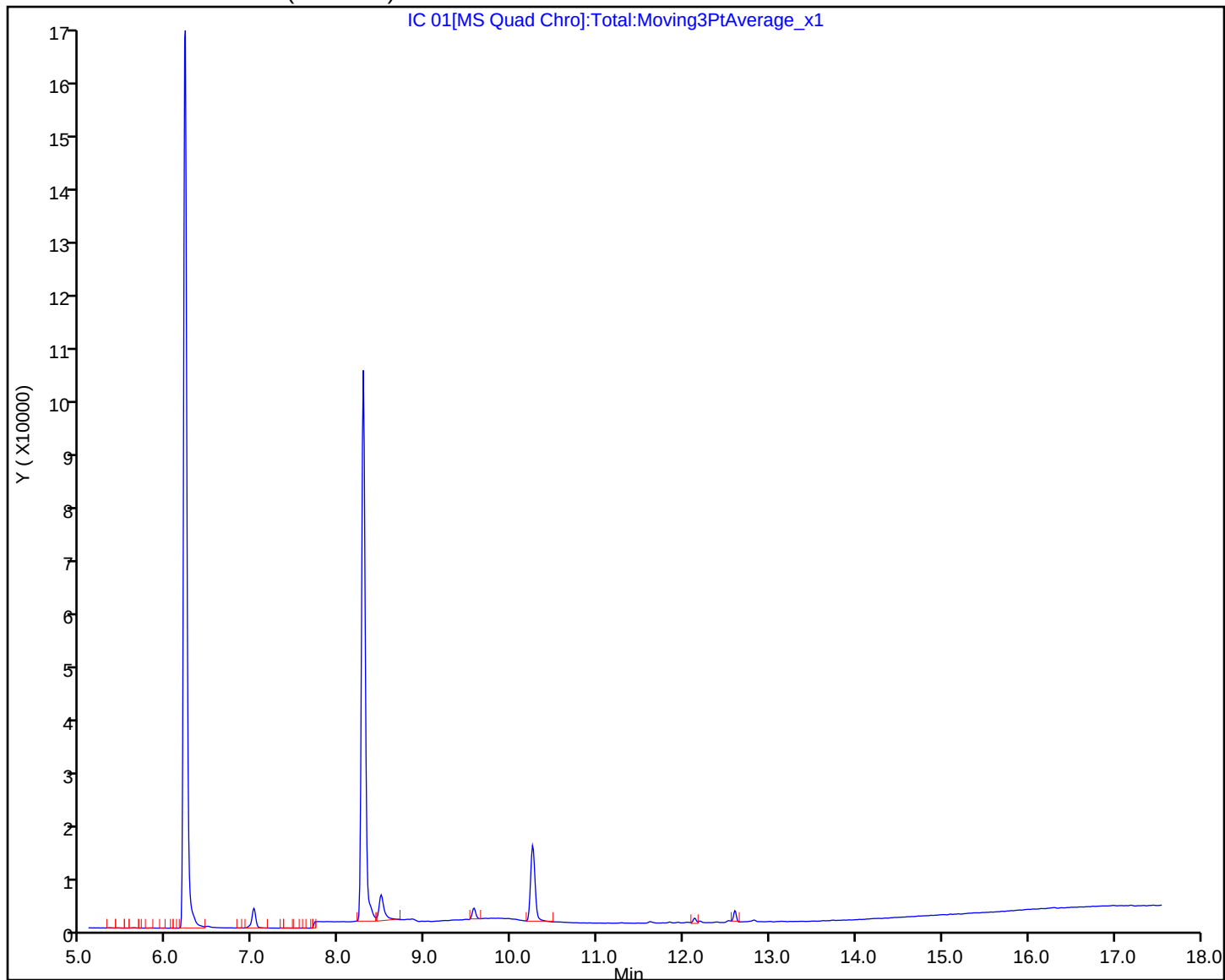
1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

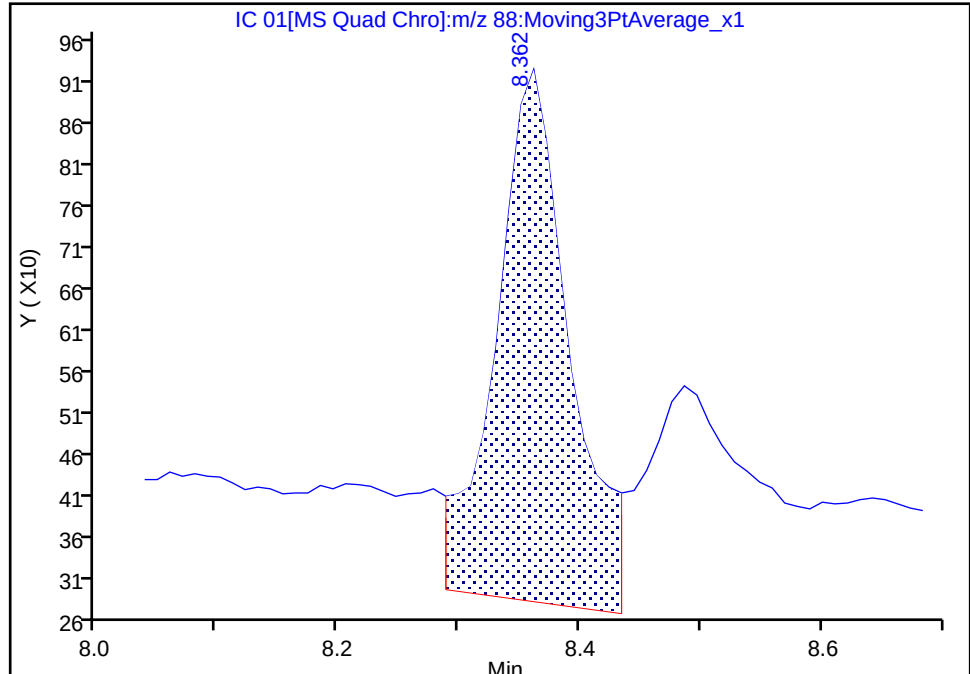
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 01.D
Injection Date: 20-Nov-2024 15:29:08 Instrument ID: GCMS-FE
Lims ID: IC 810-123437/5-A
Client ID:
Operator ID: BC ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector: MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

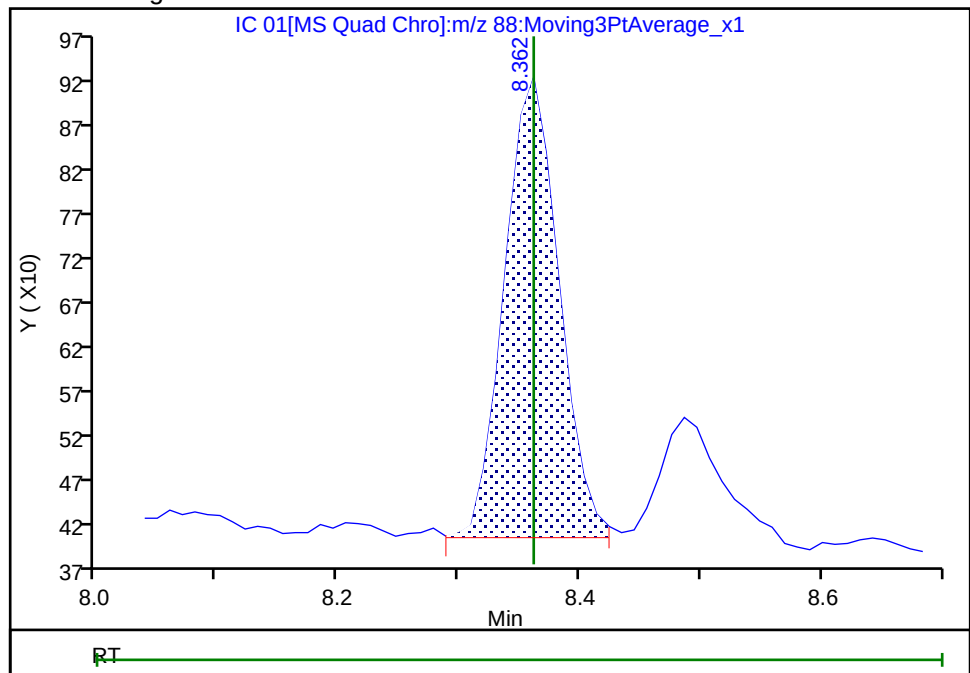
RT: 8.36
Area: 2776
Amount: 5.246577
Amount Units: ug/l

Processing Integration Results



RT: 8.36
Area: 1616
Amount: 4.952539
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 21-Nov-2024 09:57:51 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 02.D
 Lims ID: IC 810-123437/6-A
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 20-Nov-2024 15:51:02 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0031576-005
 Misc. Info.: IC 810-123437/5-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 21-Nov-2024 10:07:42 Calib Date: 20-Nov-2024 18:02:23
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1618

First Level Reviewer: JH8B

Date: 21-Nov-2024 09:58:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.204	6.212	-0.008	24	175831	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.279	8.279	0.000	99	159608	500.0	501.9	
11 1,4-Dioxane	88	8.362	8.362	0.000	80	3160	10.0	9.72	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 02.D

Injection Date: 20-Nov-2024 15:51:02

Instrument ID: GCMS-FE

Lims ID: IC 810-123437/6-A

Client ID:

Operator ID: BC

ALS Bottle#: 5

Worklist Smp#: 5

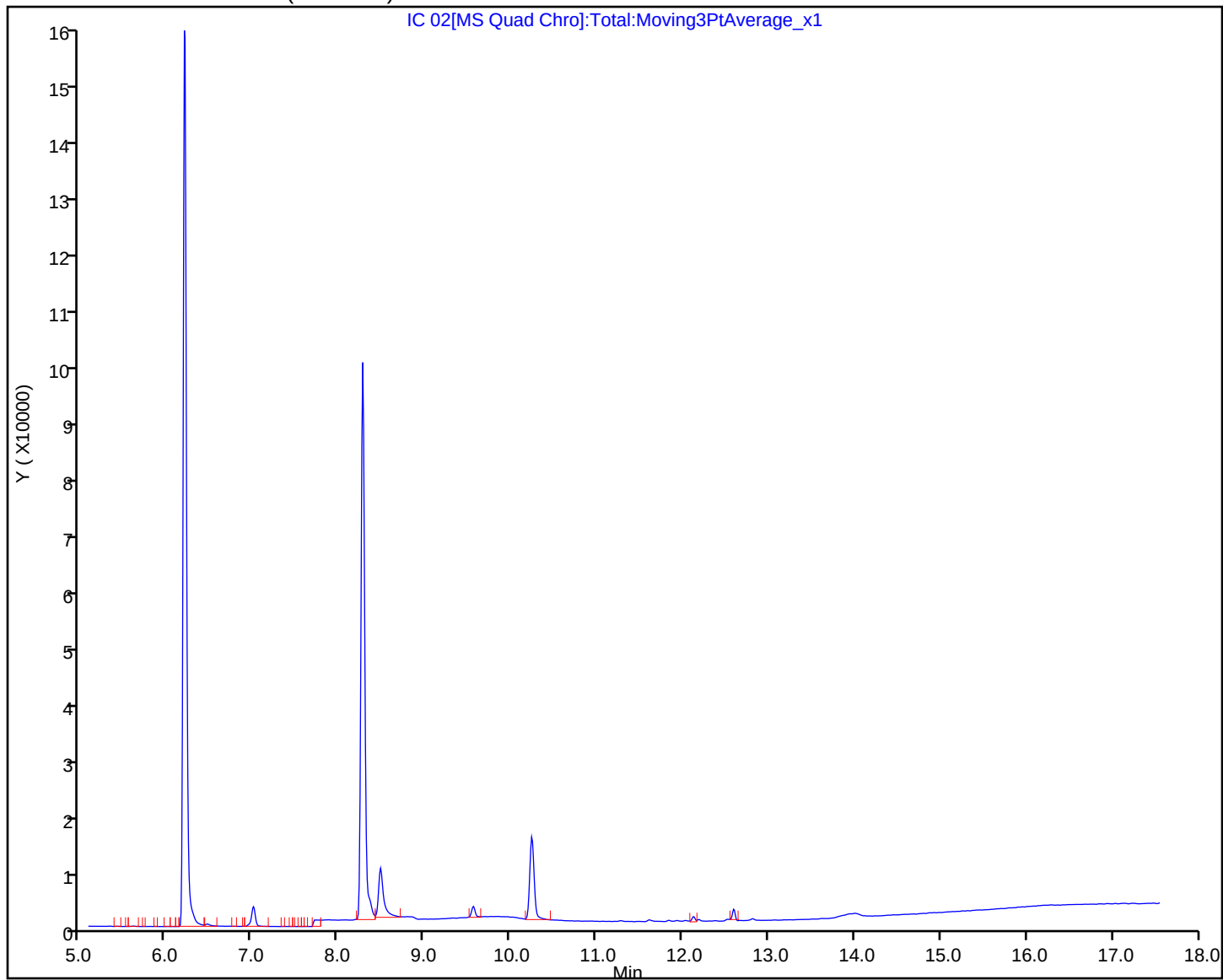
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 02.D

Injection Date: 20-Nov-2024 15:51:02

Instrument ID: GCMS-FE

Lims ID: IC 810-123437/6-A

Client ID:

Operator ID: BC

ALS Bottle#:

5

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

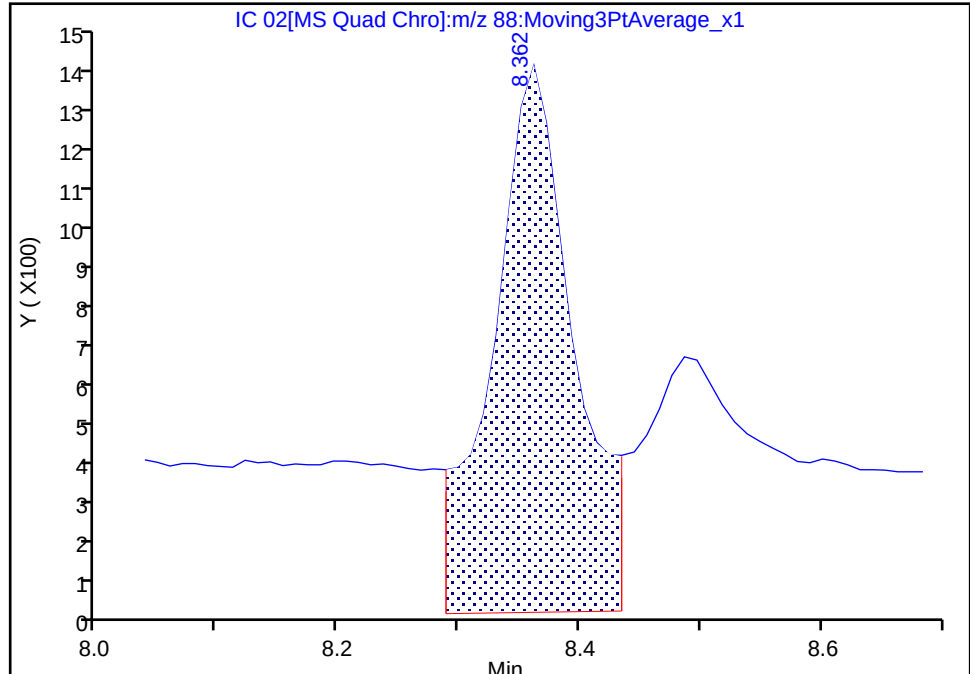
MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

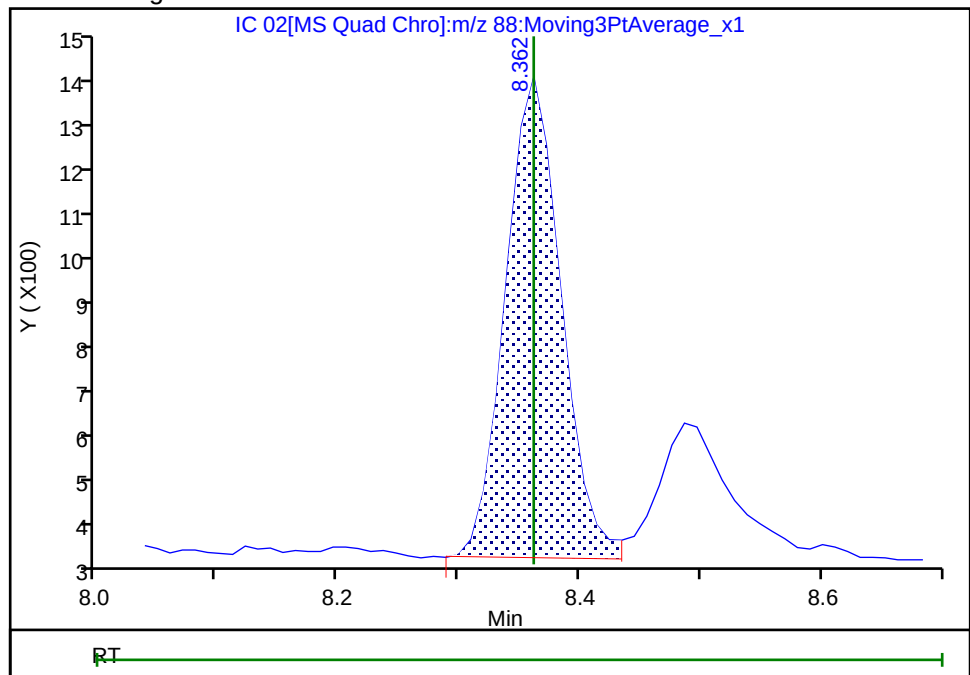
RT: 8.36
Area: 6368
Amount: 17.029397
Amount Units: ug/l

Processing Integration Results



RT: 8.36
Area: 3160
Amount: 9.718999
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 21-Nov-2024 09:58:12 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 05.D
 Lims ID: IC 810-123437/7-A
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 20-Nov-2024 16:12:56 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0031576-006
 Misc. Info.: IC 810-123437/6-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 21-Nov-2024 10:07:43 Calib Date: 20-Nov-2024 18:02:23
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1618

First Level Reviewer: JH8B

Date: 21-Nov-2024 09:58:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.204	6.212	-0.008	24	172164	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.279	8.279	0.000	99	156310	500.0	502.0	
11 1,4-Dioxane	88	8.362	8.362	0.000	82	8014	25.0	25.0	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 05.D

Injection Date: 20-Nov-2024 16:12:56

Instrument ID: GCMS-FE

Lims ID: IC 810-123437/7-A

Client ID:

Operator ID: BC

ALS Bottle#: 6

Worklist Smp#: 6

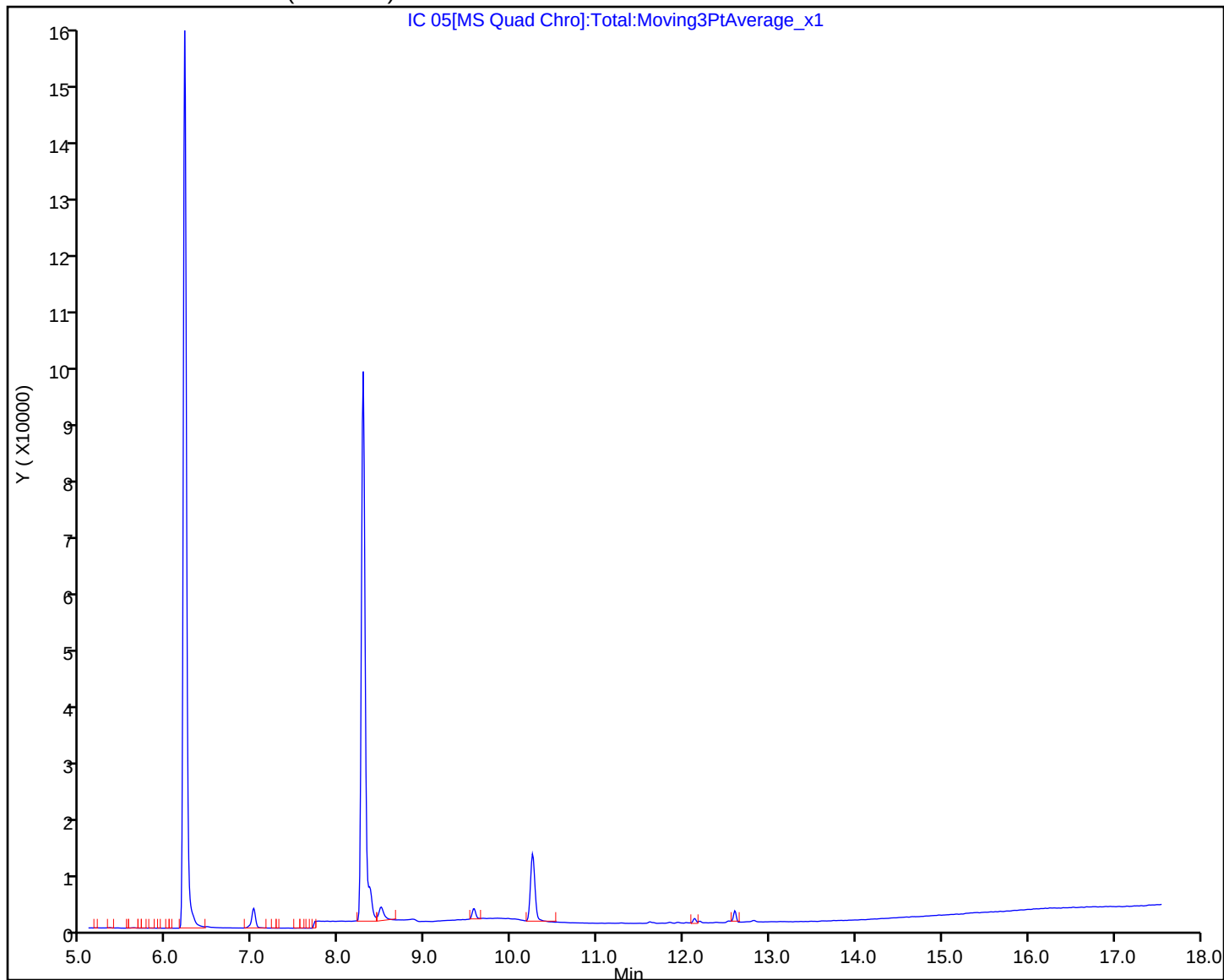
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 05.D

Injection Date: 20-Nov-2024 16:12:56

Instrument ID: GCMS-FE

Lims ID: IC 810-123437/7-A

Client ID:

Operator ID: BC

ALS Bottle#:

6

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)

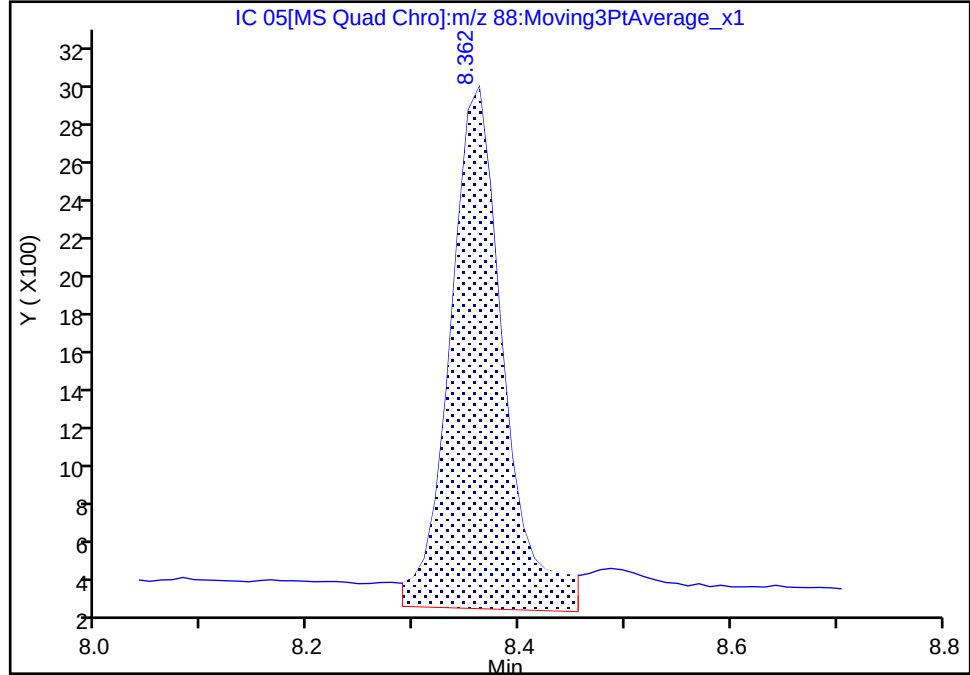
Detector: MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

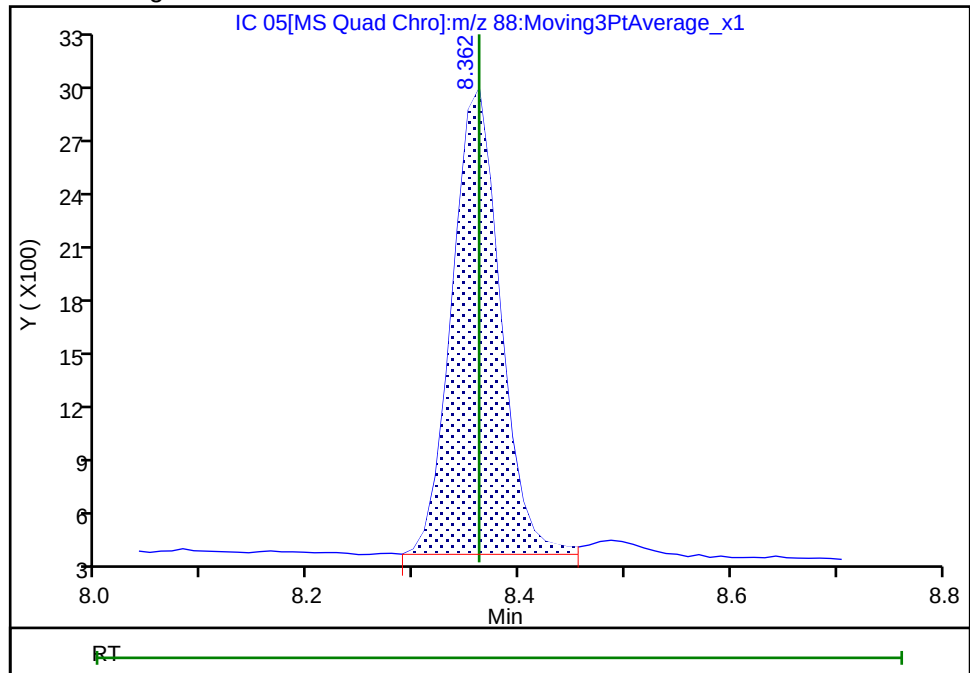
RT: 8.36
Area: 9392
Amount: 27.962934
Amount Units: ug/l

Processing Integration Results



RT: 8.36
Area: 8014
Amount: 24.997818
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 21-Nov-2024 09:58:25 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 1.D
Lims ID: ICISAV 810-123437/8-A
Client ID:
Sample Type: ICISAV Calib Level: 5
Inject. Date: 20-Nov-2024 16:34:55 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031576-007
Misc. Info.: ICISAV 810-123437/8-A
Operator ID: BC Instrument ID: GCMS-FE
Sublist: chrom-522_GCMS-FE*sub1
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 21-Nov-2024 10:07:44 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: JH8B

Date: 21-Nov-2024 09:58:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.204	6.204	0.000	23	173400	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.279	8.279	0.000	99	156621	500.0	499.4	
11 1,4-Dioxane	88	8.362	8.362	0.000	82	16239	50.0	50.2	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 1.D

Injection Date: 20-Nov-2024 16:34:55

Instrument ID: GCMS-FE

Lims ID: ICISAV 810-123437/8-A

Client ID:

Operator ID: BC

ALS Bottle#:

7

Worklist Smp#:

7

Injection Vol: 1.0 ul

Dil. Factor:

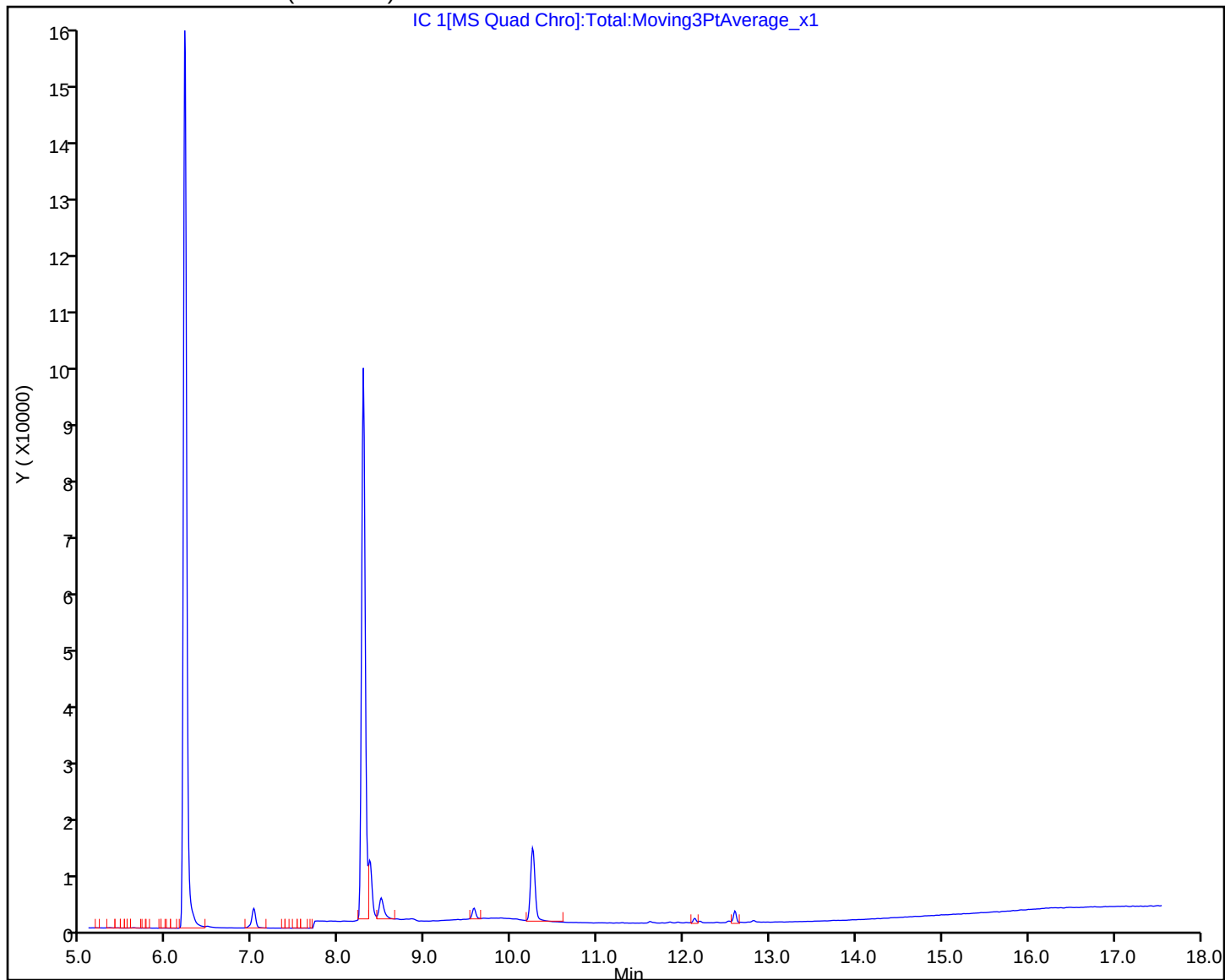
1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

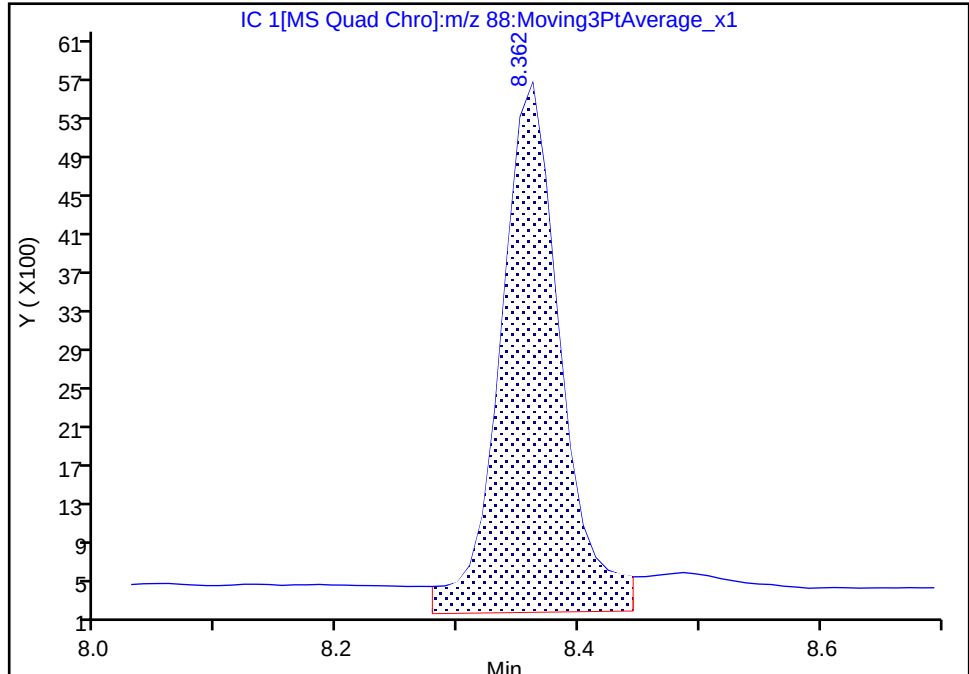
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 1.D
Injection Date: 20-Nov-2024 16:34:55 Instrument ID: GCMS-FE
Lims ID: ICISAV 810-123437/8-A
Client ID:
Operator ID: BC ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector: MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

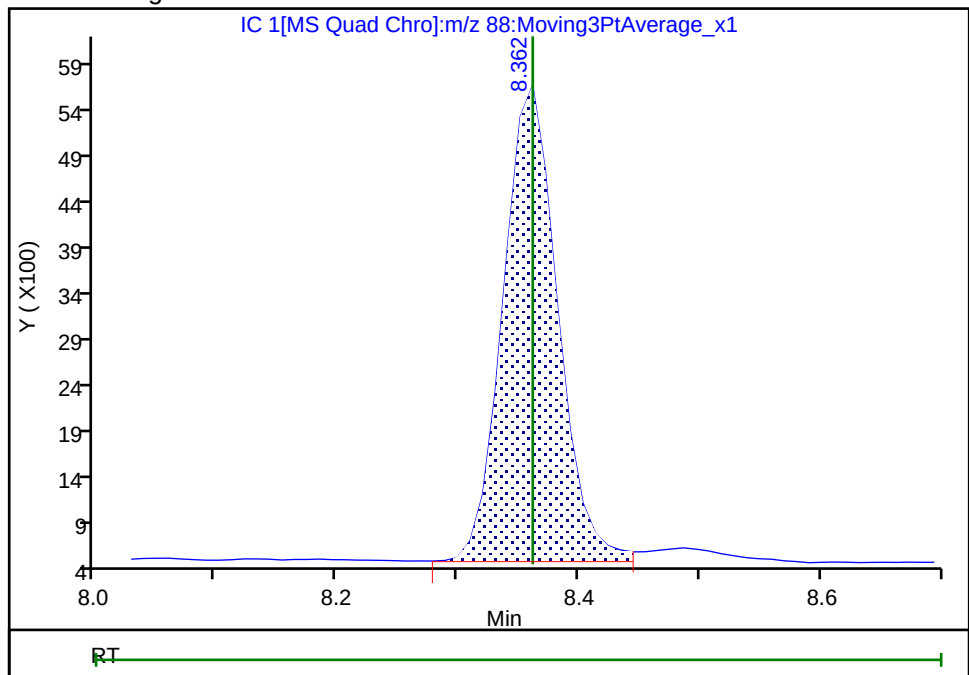
RT: 8.36
Area: 18942
Amount: 56.626774
Amount Units: ug/l

Processing Integration Results



RT: 8.36
Area: 16239
Amount: 50.181190
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 21-Nov-2024 09:58:33 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 2.D
Lims ID: IC 810-123437/9-A
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 20-Nov-2024 16:56:49 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031576-008
Misc. Info.: IC 810-123437/9-A
Operator ID: BC Instrument ID: GCMS-FE
Sublist: chrom-522_GCMS-FE*sub1
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 21-Nov-2024 10:07:44 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: JH8B

Date: 21-Nov-2024 09:59:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.204	6.204	0.000	24	175990	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.279	8.279	0.000	99	158173	500.0	496.9	
11 1,4-Dioxane	88	8.362	8.362	0.000	81	32014	100.0	97.4	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 2.D

Injection Date: 20-Nov-2024 16:56:49

Instrument ID: GCMS-FE

Lims ID: IC 810-123437/9-A

Client ID:

Operator ID: BC

ALS Bottle#: 8

Worklist Smp#: 8

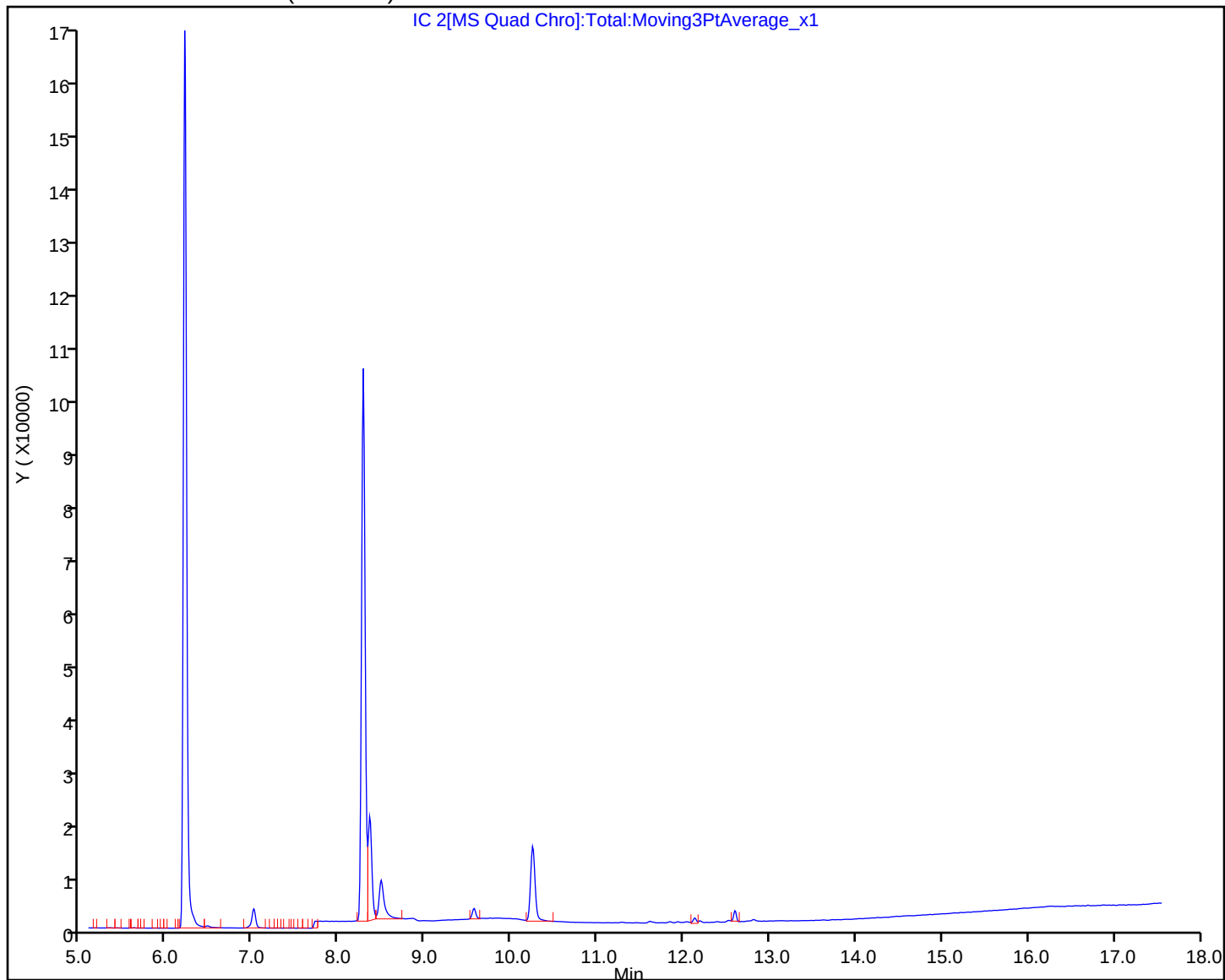
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

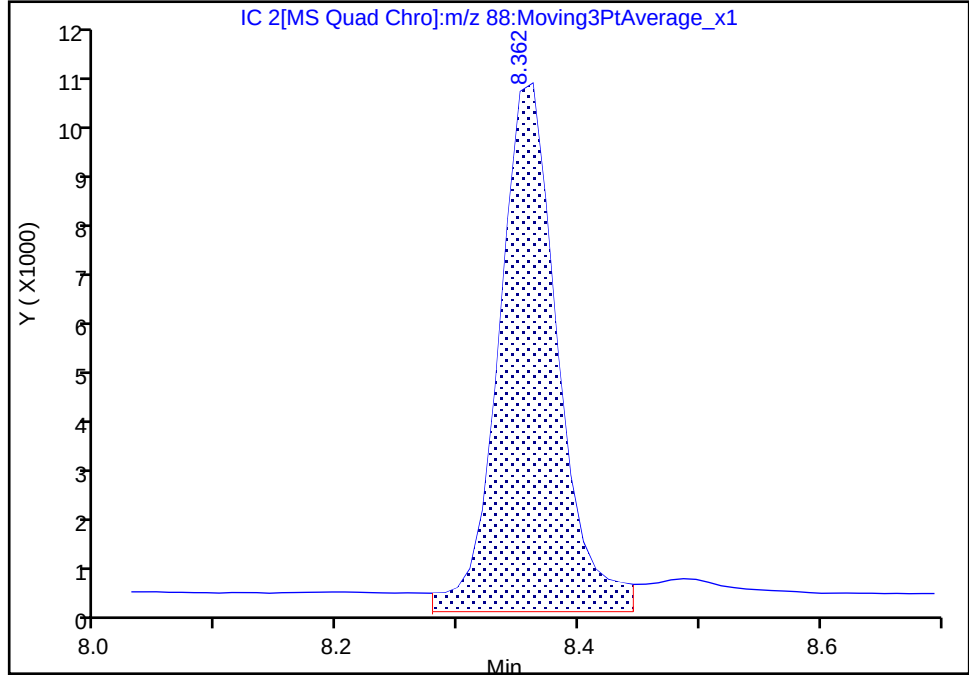
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 2.D
Injection Date: 20-Nov-2024 16:56:49 Instrument ID: GCMS-FE
Lims ID: IC 810-123437/9-A
Client ID:
Operator ID: BC ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

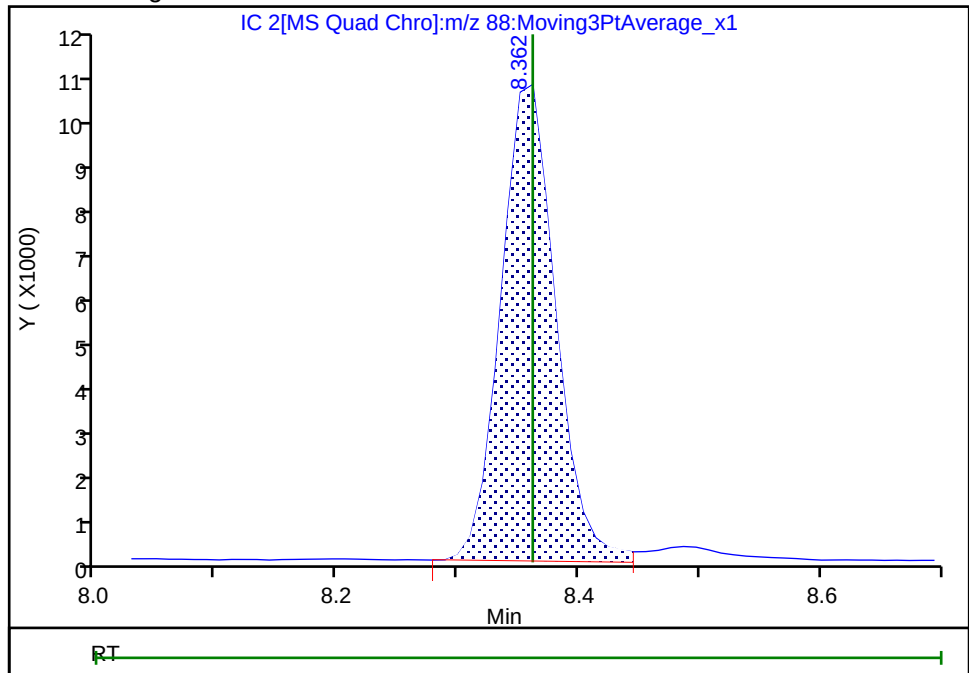
RT: 8.36
Area: 35768
Amount: 105.9835
Amount Units: ug/l

Processing Integration Results



RT: 8.36
Area: 32014
Amount: 97.368745
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 21-Nov-2024 09:59:00 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 5.D
Lims ID: IC 810-123437/10-A
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 20-Nov-2024 17:18:33 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031576-009
Misc. Info.: IC 810-123437/10-A
Operator ID: BC Instrument ID: GCMS-FE
Sublist: chrom-522_GCMS-FE*sub1
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 21-Nov-2024 10:07:45 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: JH8B

Date: 21-Nov-2024 09:59:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.204	6.204	0.000	24	172784	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.279	8.279	0.000	99	156175	500.0	499.7	
11 1,4-Dioxane	88	8.351	8.362	-0.011	81	83938	250.0	259.8	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 5.D

Injection Date: 20-Nov-2024 17:18:33

Instrument ID: GCMS-FE

Lims ID: IC 810-123437/10-A

Client ID:

Operator ID: BC

ALS Bottle#:

9

Worklist Smp#:

9

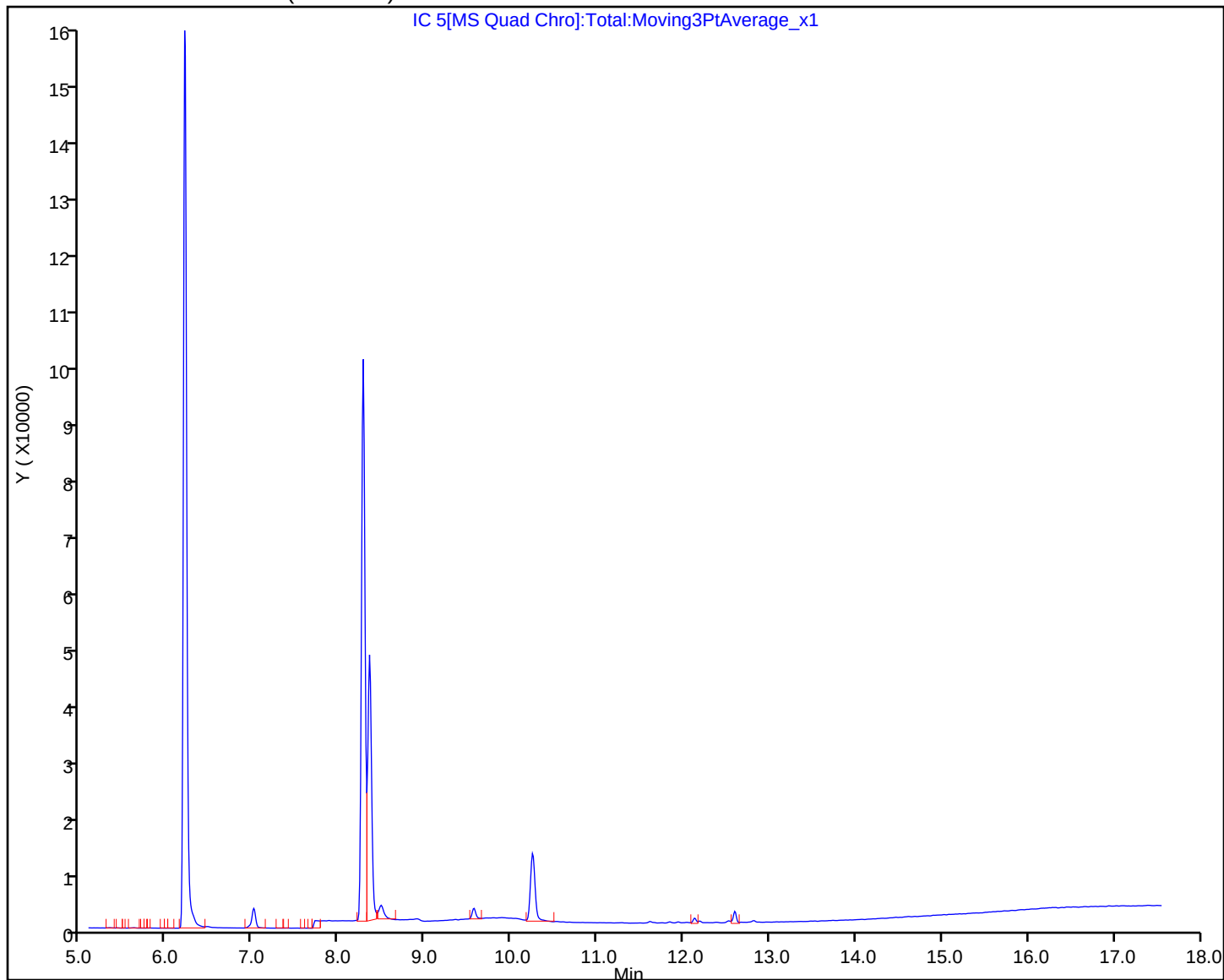
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

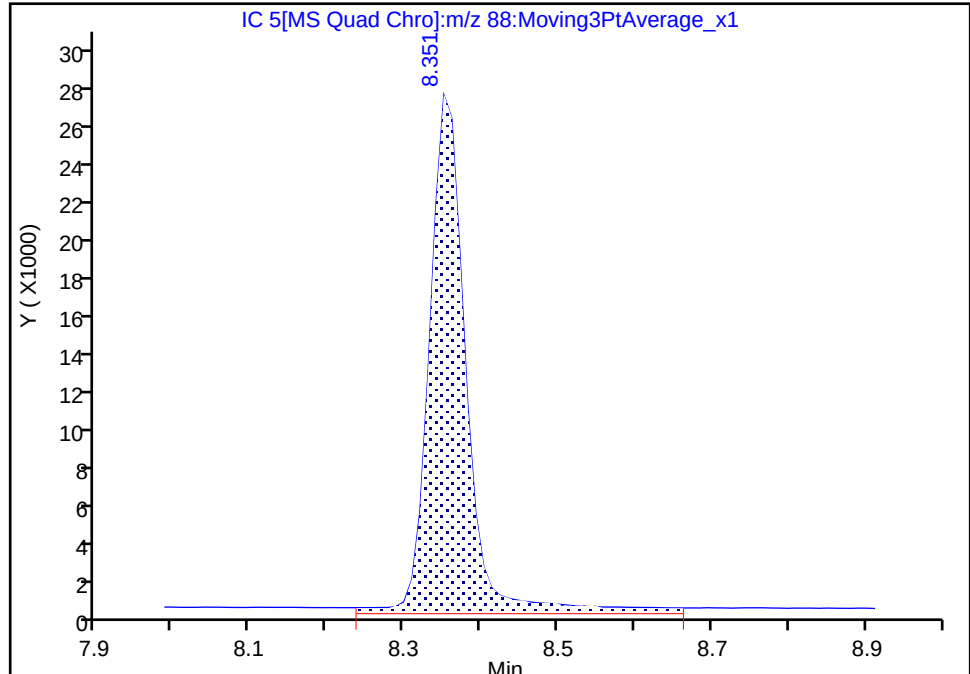
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 5.D
Injection Date: 20-Nov-2024 17:18:33 Instrument ID: GCMS-FE
Lims ID: IC 810-123437/10-A
Client ID:
Operator ID: BC ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

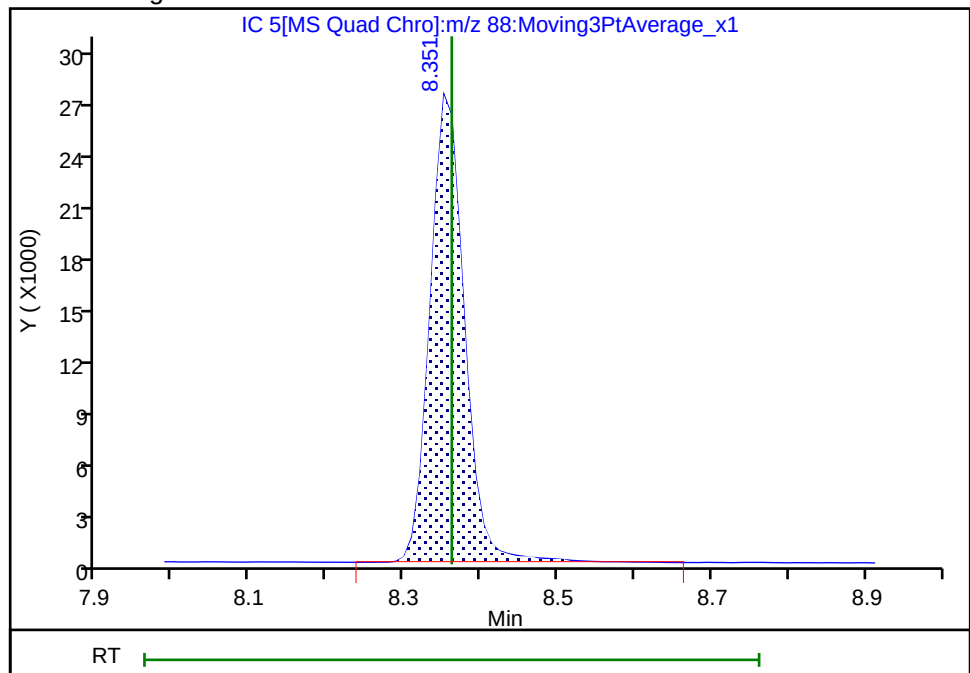
RT: 8.35
Area: 91599
Amount: 277.8506
Amount Units: ug/l

Processing Integration Results



RT: 8.35
Area: 83938
Amount: 259.8454
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 21-Nov-2024 09:59:20 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 10.D
Lims ID: IC 810-123437/11-A
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 20-Nov-2024 17:40:28 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031576-010
Misc. Info.: IC 810-123437/11-A
Operator ID: BC Instrument ID: GCMS-FE
Sublist: chrom-522_GCMS-FE*sub1
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 21-Nov-2024 10:07:46 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: JH8B

Date: 21-Nov-2024 09:59:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.204	6.204	0.000	24	172651	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.279	8.279	0.000	99	154029	500.0	493.2	
11 1,4-Dioxane	88	8.352	8.362	-0.010	81	162242	500.0	502.5	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 10.D

Injection Date: 20-Nov-2024 17:40:28

Instrument ID: GCMS-FE

Lims ID: IC 810-123437/11-A

Client ID:

Operator ID: BC

ALS Bottle#: 10

Worklist Smp#: 10

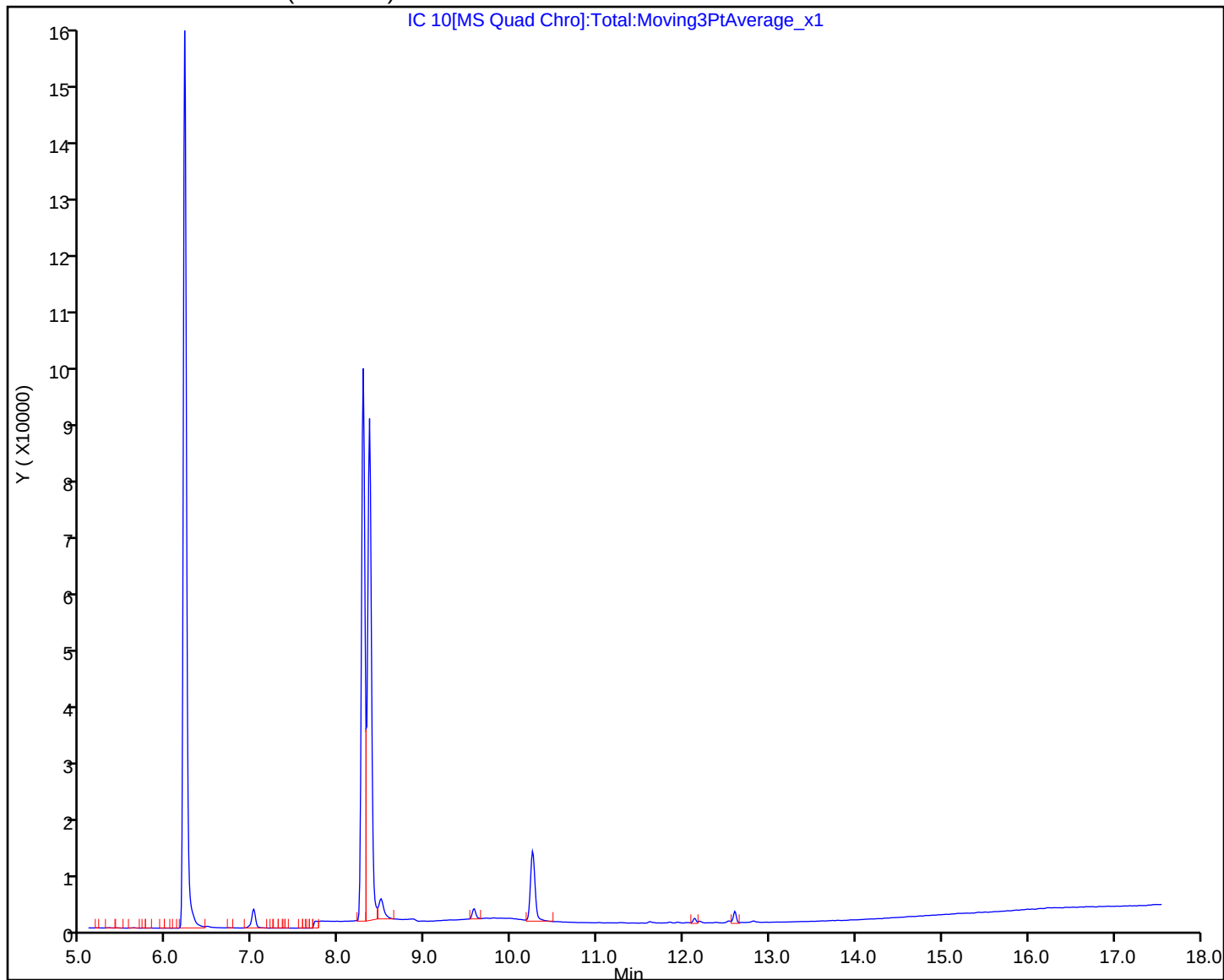
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 10.D

Injection Date: 20-Nov-2024 17:40:28

Instrument ID: GCMS-FE

Lims ID: IC 810-123437/11-A

Client ID:

Operator ID: BC

ALS Bottle#:

10

Worklist Smp#: 10

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

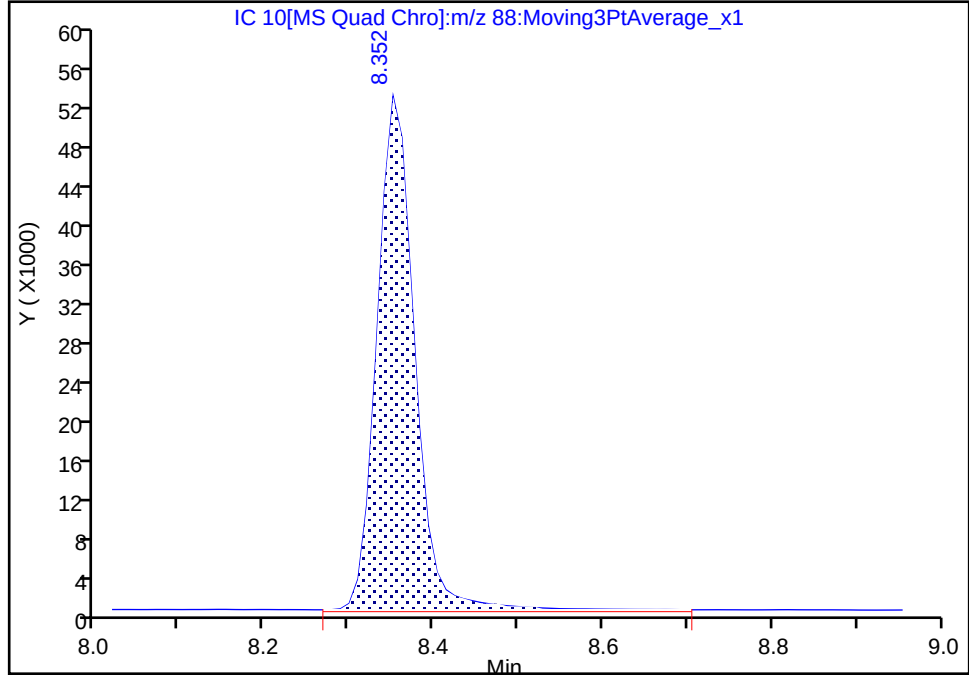
MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

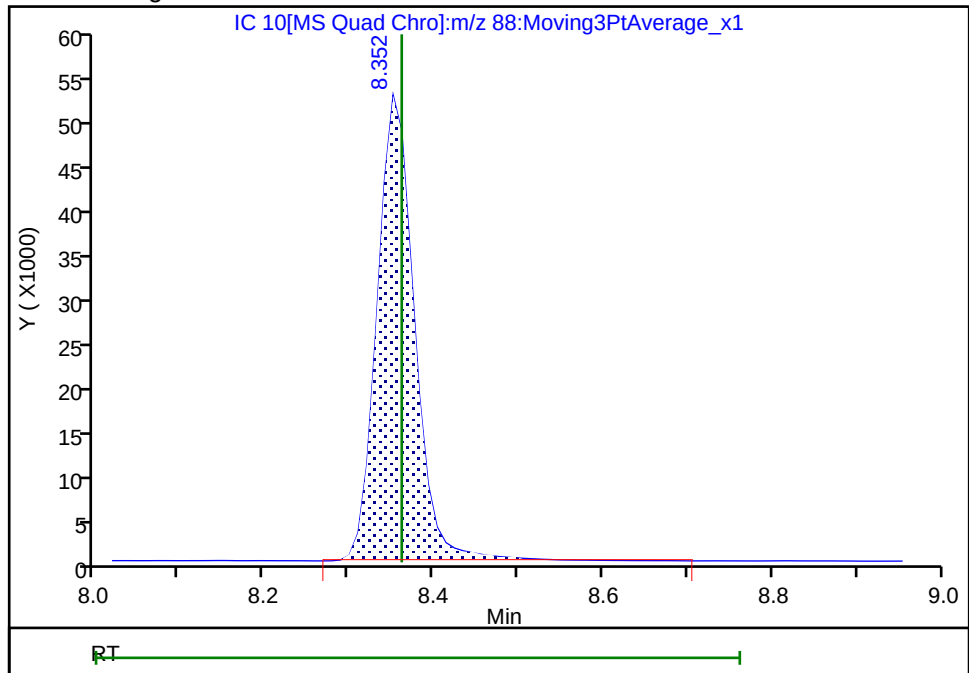
RT: 8.35
Area: 167404
Amount: 514.1962
Amount Units: ug/l

Processing Integration Results



RT: 8.35
Area: 162242
Amount: 502.5336
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 21-Nov-2024 09:59:40 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Lims ID: IC 810-123437/12-A
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 20-Nov-2024 18:02:23 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031576-011
Misc. Info.: IC 810-123437/12-A
Operator ID: BC Instrument ID: GCMS-FE
Sublist: chrom-522_GCMS-FE*sub1
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 21-Nov-2024 10:07:47 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: JH8B

Date: 21-Nov-2024 10:07:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.204	6.204	0.000	24	172684	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.279	8.279	0.000	99	154721	500.0	495.4	
11 1,4-Dioxane	88	8.351	8.362	-0.011	81	319816	1000.0	990.3	

QC Flag Legend

Processing Flags

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D

Injection Date: 20-Nov-2024 18:02:23

Instrument ID: GCMS-FE

Lims ID: IC 810-123437/12-A

Client ID:

Operator ID: BC

ALS Bottle#: 11

Worklist Smp#: 11

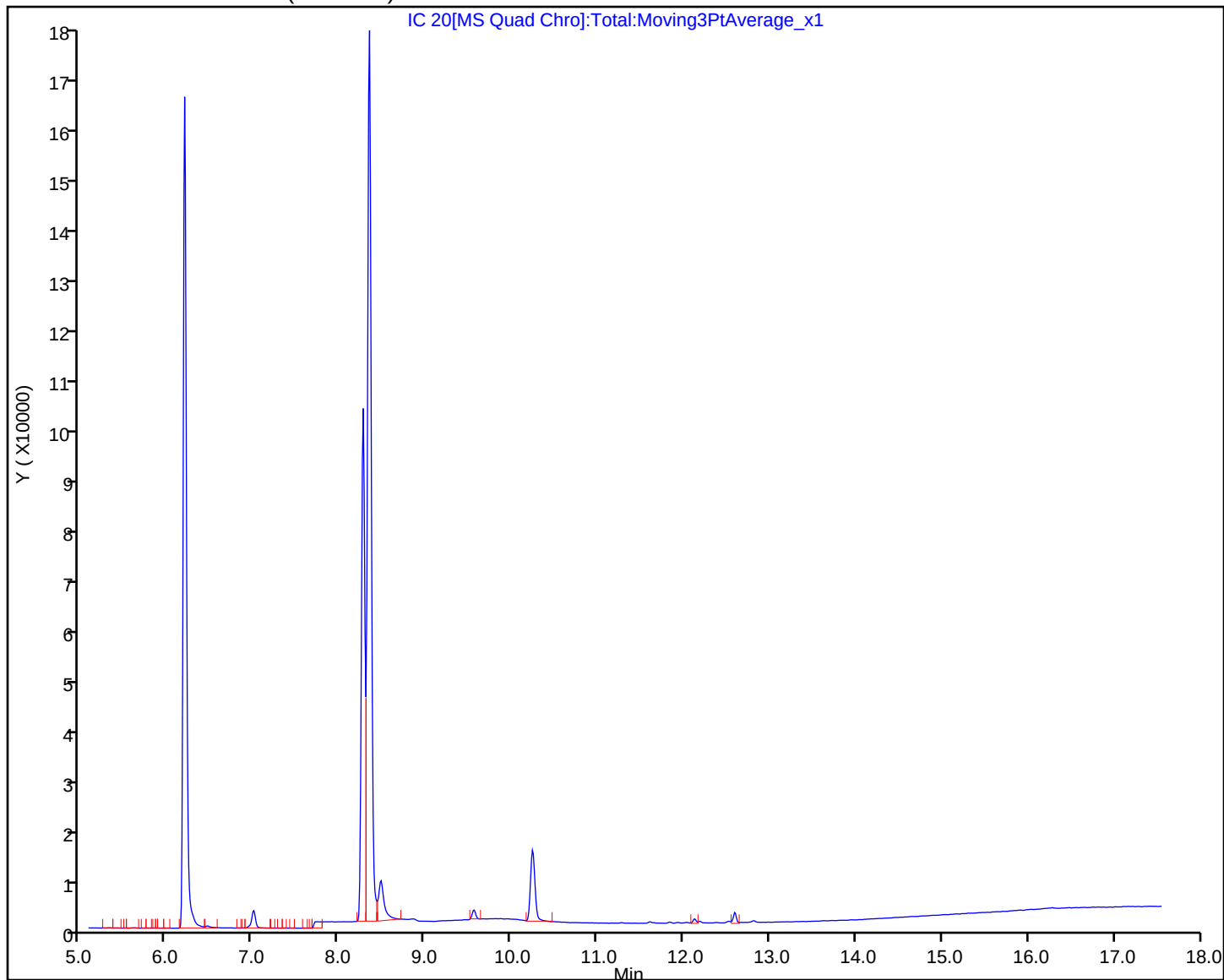
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Calibration

/ 1,4-Dioxane-d8 (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

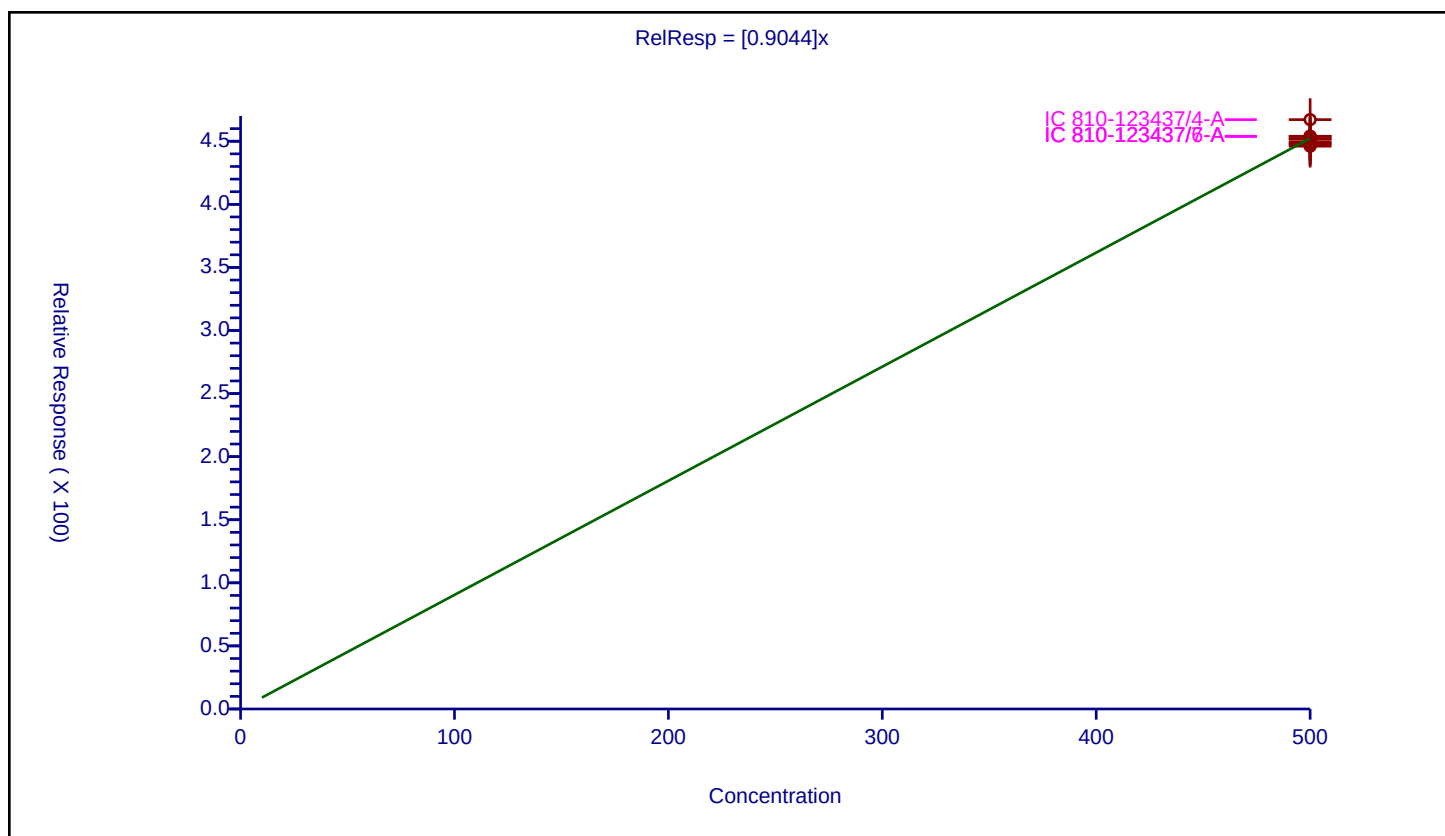
Curve Coefficients

Intercept: 0
Slope: 0.9044

Error Coefficients

Relative Standard Deviation: 1.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 810-123437/4-A	500.0	467.119334	500.0	175331.0	0.934239	Y
2	IC 810-123437/5-A	500.0	447.671062	500.0	178429.0	0.895342	Y
3	IC 810-123437/6-A	500.0	453.867634	500.0	175831.0	0.907735	Y
4	IC 810-123437/7-A	500.0	453.956692	500.0	172164.0	0.907913	Y
5	ICISAV 810-123437/8-A	500.0	451.617647	500.0	173400.0	0.903235	Y
6	IC 810-123437/9-A	500.0	449.380647	500.0	175990.0	0.898761	Y
7	IC 810-123437/10-A	500.0	451.937101	500.0	172784.0	0.903874	Y
8	IC 810-123437/11-A	500.0	446.070396	500.0	172651.0	0.892141	Y
9	IC 810-123437/12-A	500.0	447.988812	500.0	172684.0	0.895978	Y



Calibration

/ 1,4-Dioxane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

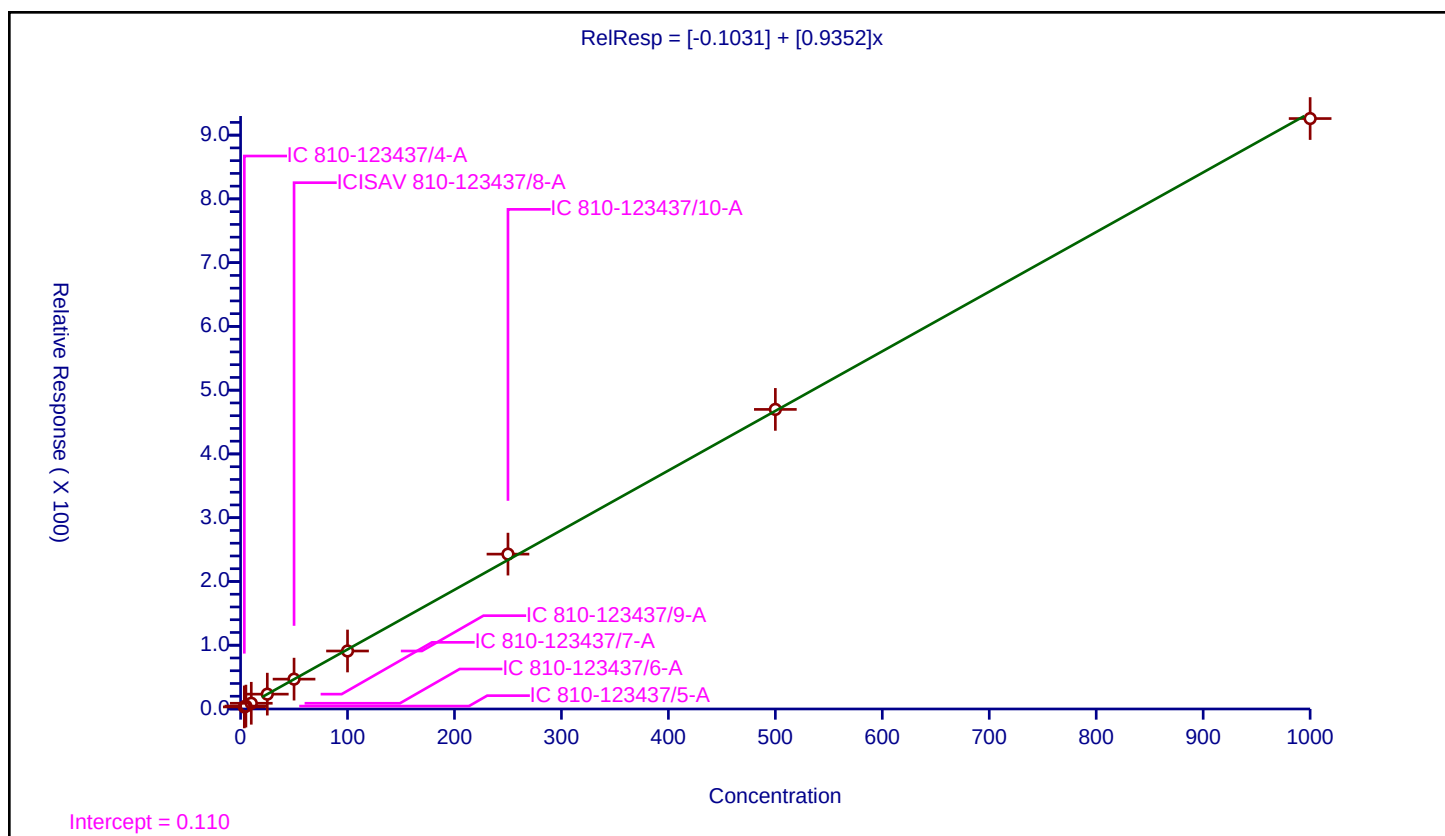
Curve Coefficients

Intercept: -0.1031
 Slope: 0.9352

Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 810-123437/4-A	3.5	3.253846	500.0	175331.0	0.92967	Y
2	IC 810-123437/5-A	5.0	4.528412	500.0	178429.0	0.905682	Y
3	IC 810-123437/6-A	10.0	8.985901	500.0	175831.0	0.89859	Y
4	IC 810-123437/7-A	25.0	23.27432	500.0	172164.0	0.930973	Y
5	ICISAV 810-123437/8-A	50.0	46.82526	500.0	173400.0	0.936505	Y
6	IC 810-123437/9-A	100.0	90.954031	500.0	175990.0	0.90954	Y
7	IC 810-123437/10-A	250.0	242.898648	500.0	172784.0	0.971595	Y
8	IC 810-123437/11-A	500.0	469.855373	500.0	172651.0	0.939711	Y
9	IC 810-123437/12-A	1000.0	926.015149	500.0	172684.0	0.926015	Y



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-129010-1
SDG No.: _____
Lab Sample ID: ICV 810-123437/13-A Calibration Date: 11/20/2024 19:07
Instrument ID: GCMS-FE Calib Start Date: 11/20/2024 15:07
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calib End Date: 11/20/2024 18:02
Lab File ID: ICV.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
1,4-Dioxane	Lin1		0.9411		50.4	50.0	101	80-120
1,4-Dioxane-d8 (Surr)	Ave	0.9044	0.8952		495	500	99	70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\ICV.D
Lims ID: ICV 810-123437/13-A
Client ID:
Sample Type: ICV
Inject. Date: 20-Nov-2024 19:07:59 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031576-013
Misc. Info.: ICV 810-123437/13-A
Operator ID: BC Instrument ID: GCMS-FE
Sublist:
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 21-Nov-2024 10:57:35 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: JH8B

Date: 21-Nov-2024 10:08:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.204	6.212	-0.008	24	172753	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.279	8.279	0.000	99	154646	500.0	494.9	
11 1,4-Dioxane	88	8.362	8.362	0.000	81	16257	50.0	50.4	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\ICV.D

Injection Date: 20-Nov-2024 19:07:59

Instrument ID: GCMS-FE

Lims ID: ICV 810-123437/13-A

Client ID:

Operator ID: BC

ALS Bottle#: 13

Worklist Smp#: 13

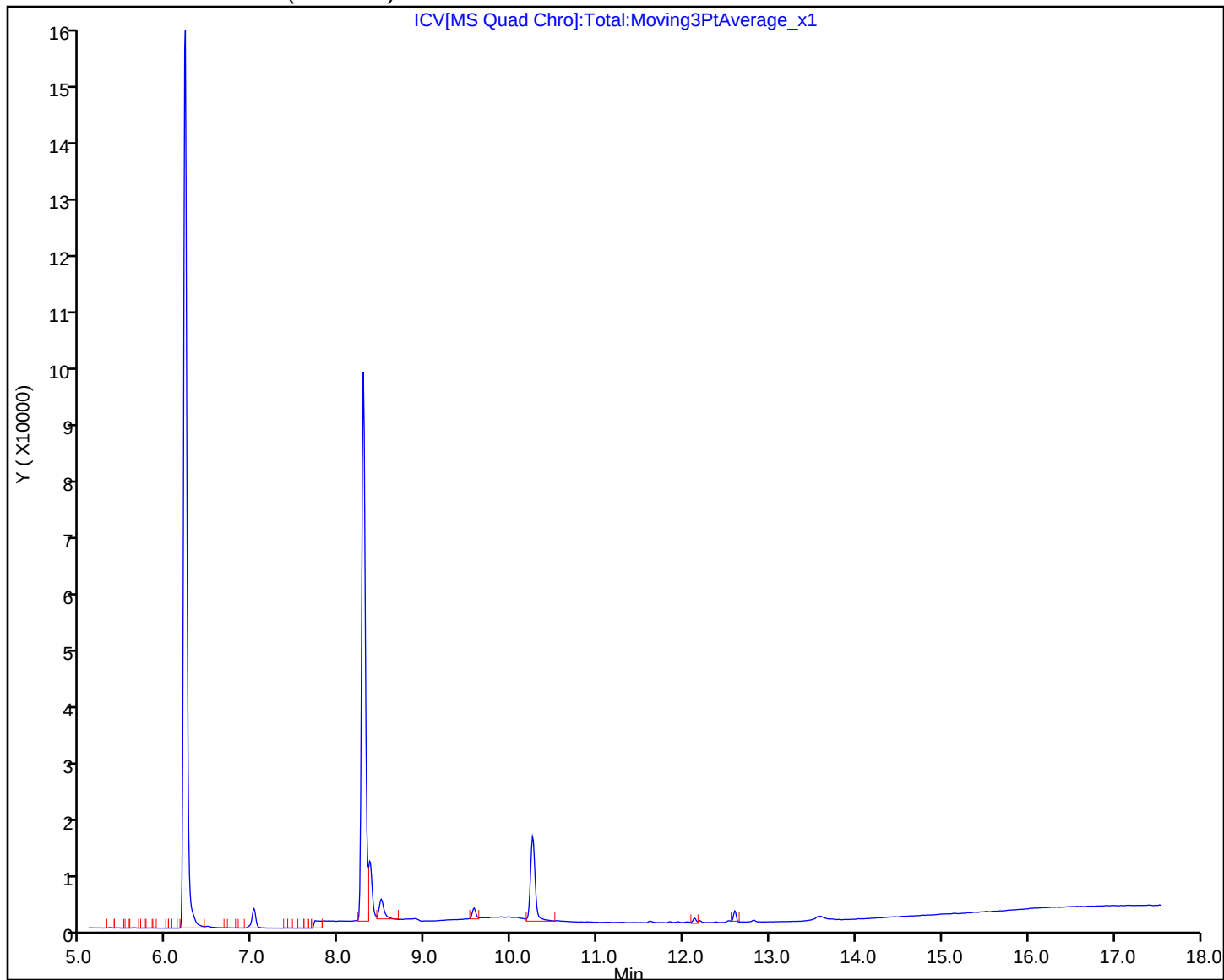
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\ICV.D

Injection Date: 20-Nov-2024 19:07:59

Instrument ID: GCMS-FE

Lims ID: ICV 810-123437/13-A

Client ID:

Operator ID: BC

ALS Bottle#:

13

Worklist Smp#: 13

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)

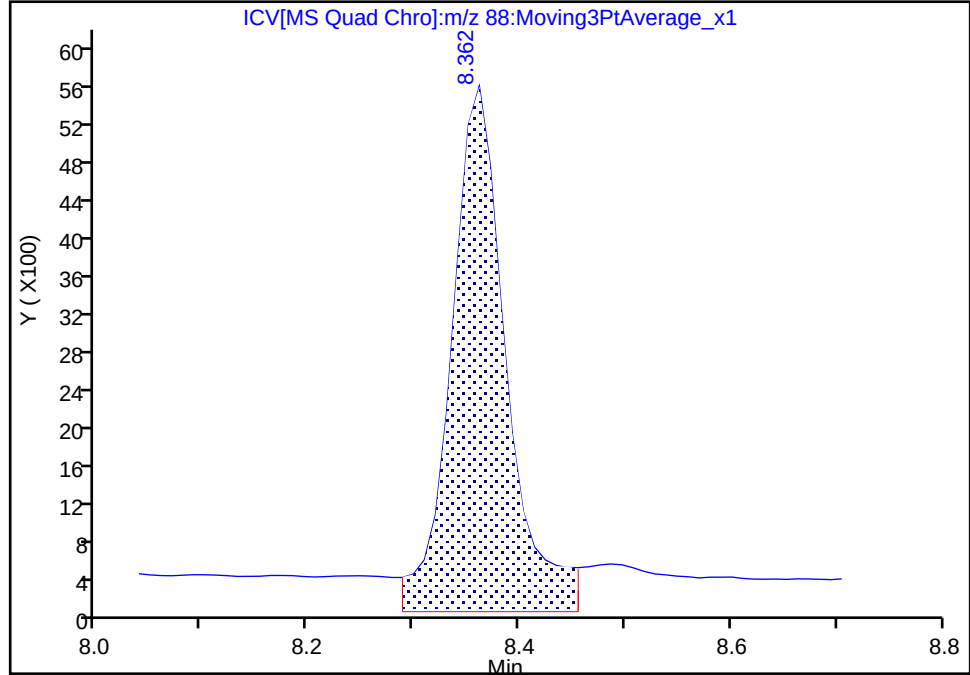
Detector: MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

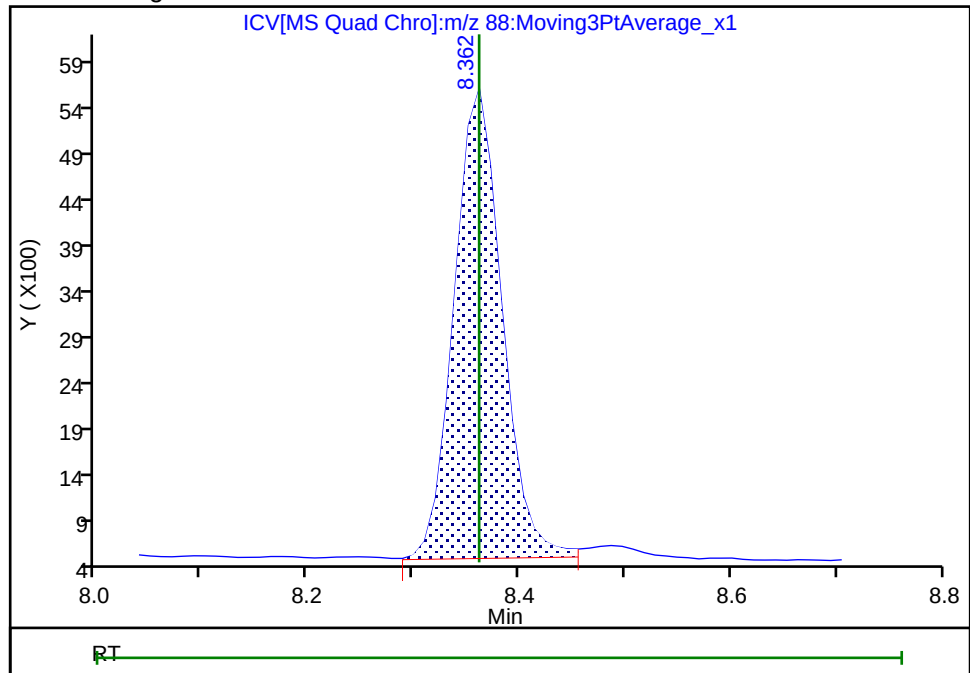
RT: 8.36
Area: 20047
Amount: 62.154189
Amount Units: ug/l

Processing Integration Results



RT: 8.36
Area: 16257
Amount: 50.424426
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 21-Nov-2024 10:08:04 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-129010-1
SDG No.: _____
Lab Sample ID: CCVLIS 810-124067/1- Calibration Date: 11/25/2024 11:53
Instrument ID: GCMS-FE Calib Start Date: 11/20/2024 15:07
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calib End Date: 11/20/2024 18:02
Lab File ID: CCVL.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
1,4-Dioxane	Lin1		1.063		4.09	3.50	117	50-150
1,4-Dioxane-d8 (Surr)	Ave	0.9044	1.043		577	500	115	70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\CCVL.D
Lims ID: CCVLIS 810-124067/1-A
Client ID:
Sample Type: CCVLIS
Inject. Date: 25-Nov-2024 11:53:48 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-001
Misc. Info.: CCVLIS 810-124067/1-A
Operator ID: BC Instrument ID: GCMS-FE
Sublist: chrom-522_GCMS-FE*sub1
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:45:02 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 13:45:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.204	6.212	-0.008	24	159472	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.279	8.289	-0.010	100	166304	500.0	576.6	
11 1,4-Dioxane	88	8.362	8.362	0.000	80	1187	3.50	4.09	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\CCVL.D

Injection Date: 25-Nov-2024 11:53:48

Instrument ID: GCMS-FE

Lims ID: CCVLIS 810-124067/1-A

Client ID:

Operator ID: BC

ALS Bottle#: 2

Worklist Smp#: 1

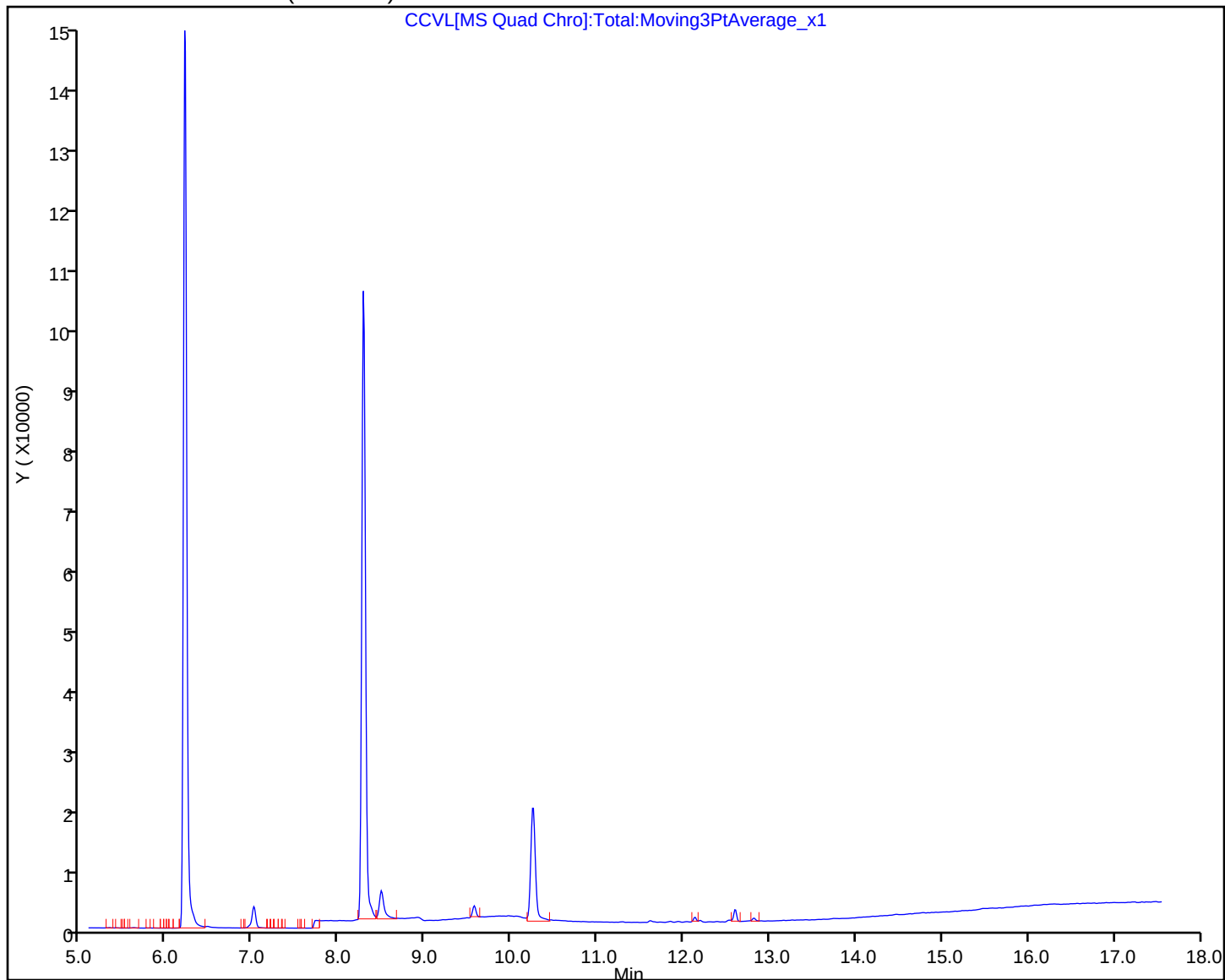
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

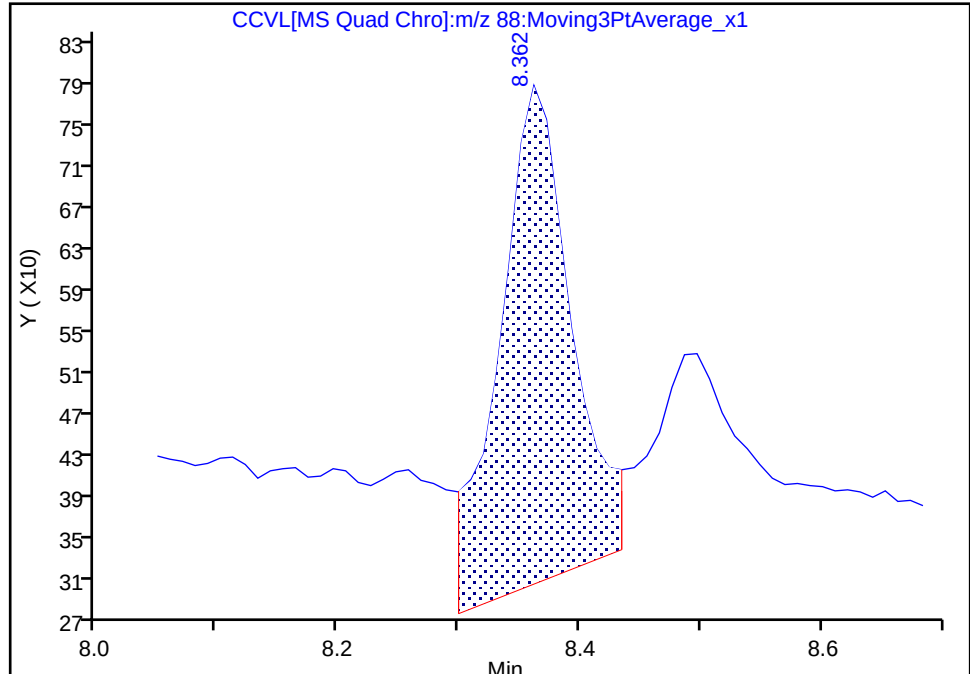
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\CCVL.D
Injection Date: 25-Nov-2024 11:53:48 Instrument ID: GCMS-FE
Lims ID: CCVLIS 810-124067/1-A
Client ID:
Operator ID: BC ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

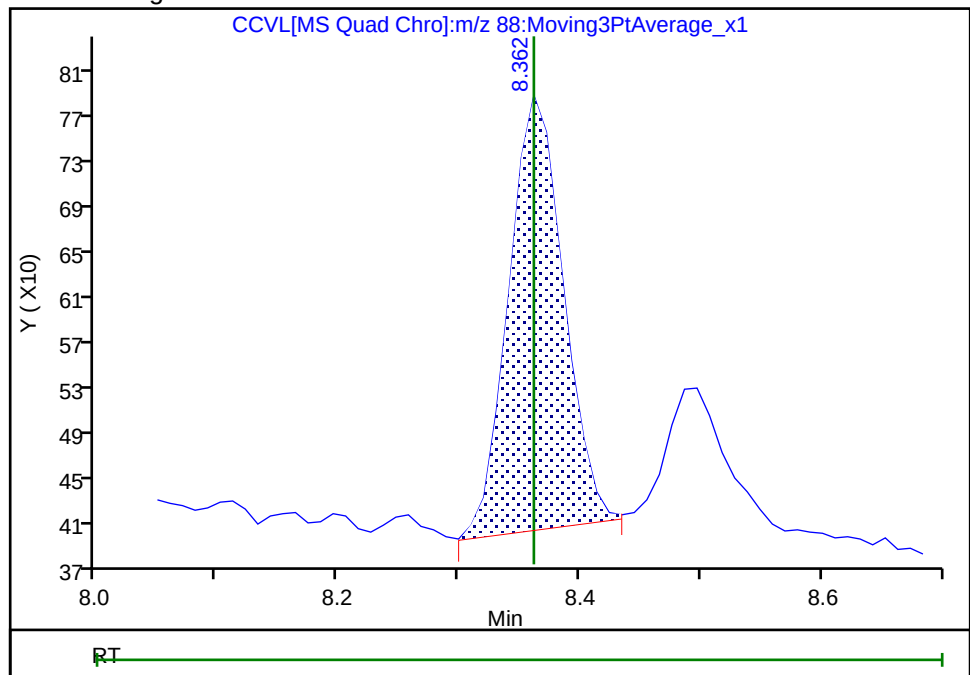
RT: 8.36
Area: 2007
Amount: 6.839055
Amount Units: ug/l

Processing Integration Results



RT: 8.36
Area: 1187
Amount: 4.089863
Amount Units: ug/l

Manual Integration Results



Reviewer: UBRC, 26-Nov-2024 11:12:42 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-129010-1
SDG No.: _____
Lab Sample ID: CCVIS 810-124067/3-A Calibration Date: 11/25/2024 17:20
Instrument ID: GCMS-FE Calib Start Date: 11/20/2024 15:07
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calib End Date: 11/20/2024 18:02
Lab File ID: CCVM.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
1,4-Dioxane	Lin1		1.051		56.3	50.0	113	70-130
1,4-Dioxane-d8 (Surr)	Ave	0.9044	0.9847		544	500	109	70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\CCVM.D
Lims ID: CCVIS 810-124067/3-A
Client ID:
Sample Type: CCVIS
Inject. Date: 25-Nov-2024 17:20:49 ALS Bottle#: 16 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-015
Misc. Info.: CCVIS 810-124067/3-A
Operator ID: BC Instrument ID: GCMS-FE
Sublist: chrom-522_GCMS-FE*sub1
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:37:35 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 11:09:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.212	6.212	0.000	24	171922	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.289	8.289	0.000	100	169289	500.0	544.4	
11 1,4-Dioxane	88	8.361	8.361	0.000	81	18072	50.0	56.3	

QC Flag Legend

Processing Flags

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\CCVM.D

Injection Date: 25-Nov-2024 17:20:49

Instrument ID: GCMS-FE

Lims ID: CCVIS 810-124067/3-A

Client ID:

Operator ID: BC

ALS Bottle#: 16

Worklist Smp#: 15

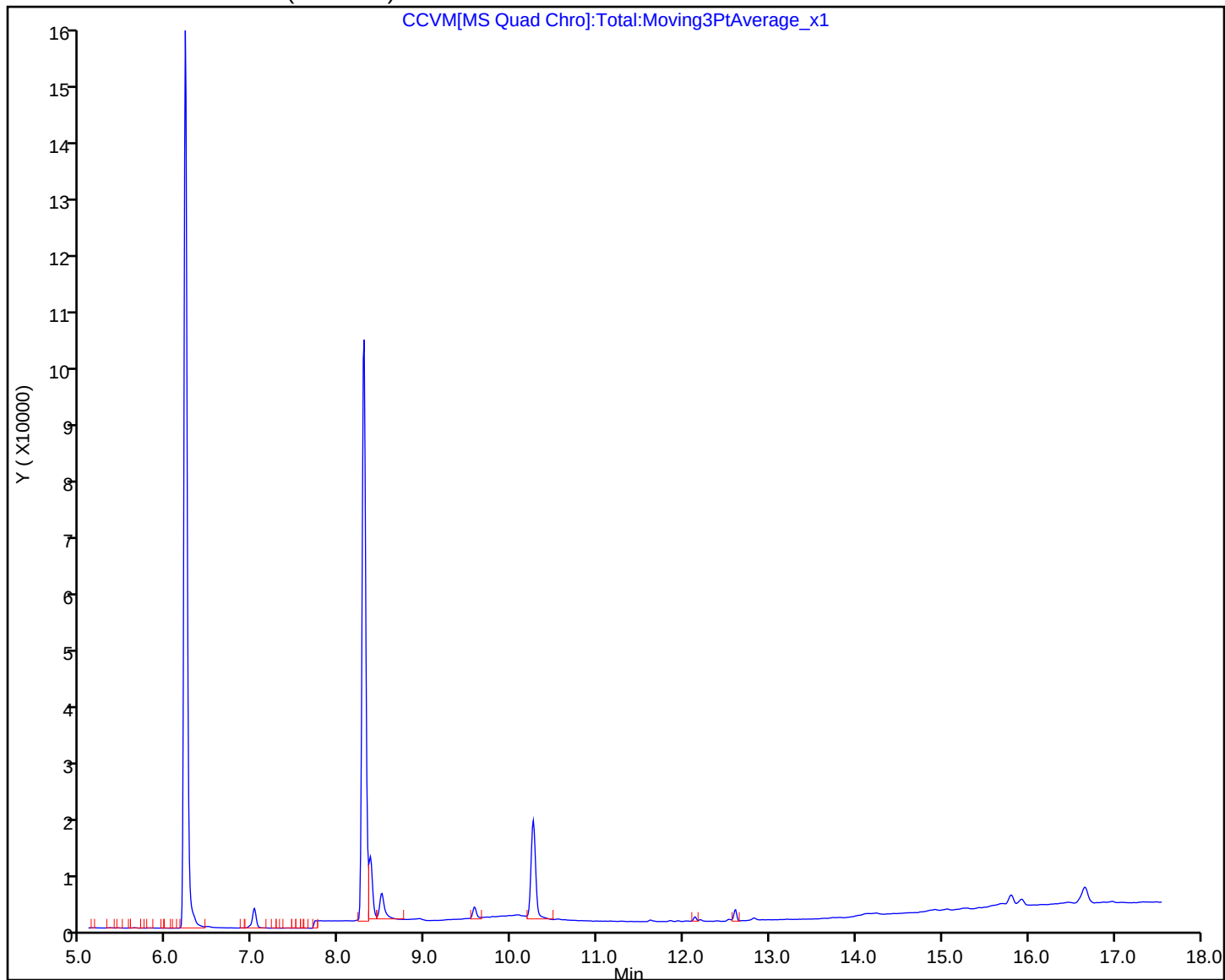
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-129010-1
SDG No.: _____
Lab Sample ID: CCV 810-124067/5-A Calibration Date: 11/25/2024 22:04
Instrument ID: GCMS-FE Calib Start Date: 11/20/2024 15:07
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calib End Date: 11/20/2024 18:02
Lab File ID: CCVH.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
1,4-Dioxane	Lin1		1.060		567	500	113	70-130
1,4-Dioxane-d8 (Surr)	Ave	0.9044	0.9546		528	500	106	70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\CCVH.D
Lims ID: CCV 810-124067/5-A
Client ID:
Sample Type: CCV
Inject. Date: 25-Nov-2024 22:04:21 ALS Bottle#: 29 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-028
Misc. Info.: CCV 810-124067/5-A
Operator ID: BC Instrument ID: GCMS-FE
Sublist: chrom-522_GCMS-FE*sub1
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:37:53 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 11:16:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.212	6.212	0.000	24	176900	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.289	8.289	0.000	100	168864	500.0	527.8	
11 1,4-Dioxane	88	8.362	8.361	0.001	81	187544	500.0	566.9	

QC Flag Legend

Processing Flags

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\CCVH.D

Injection Date: 25-Nov-2024 22:04:21

Instrument ID: GCMS-FE

Lims ID: CCV 810-124067/5-A

Client ID:

Operator ID: BC

ALS Bottle#: 29

Worklist Smp#: 28

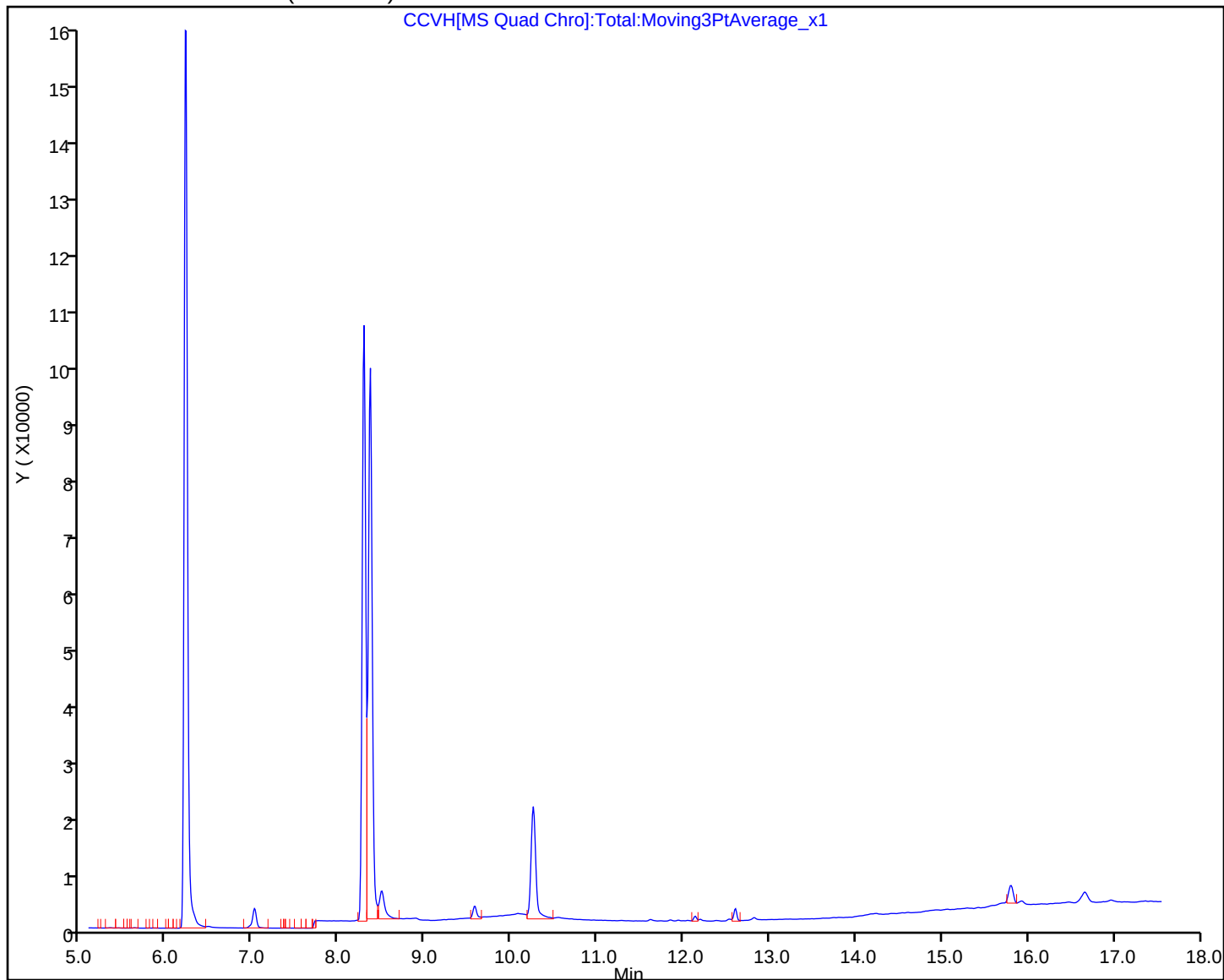
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\BFB 1.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 20-Nov-2024 14:40:28 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 2.0 mL Dil. Factor: 1.0000
Sample Info: 810-0031576-001
Misc. Info.: BFB 1
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed

Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 21-Nov-2024 10:58:43 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D

Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: JH8B

Date: 21-Nov-2024 10:58:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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10 BFB

QC Flag Legend

Processing Flags

Reagents:

O-522BFBSUB_00015

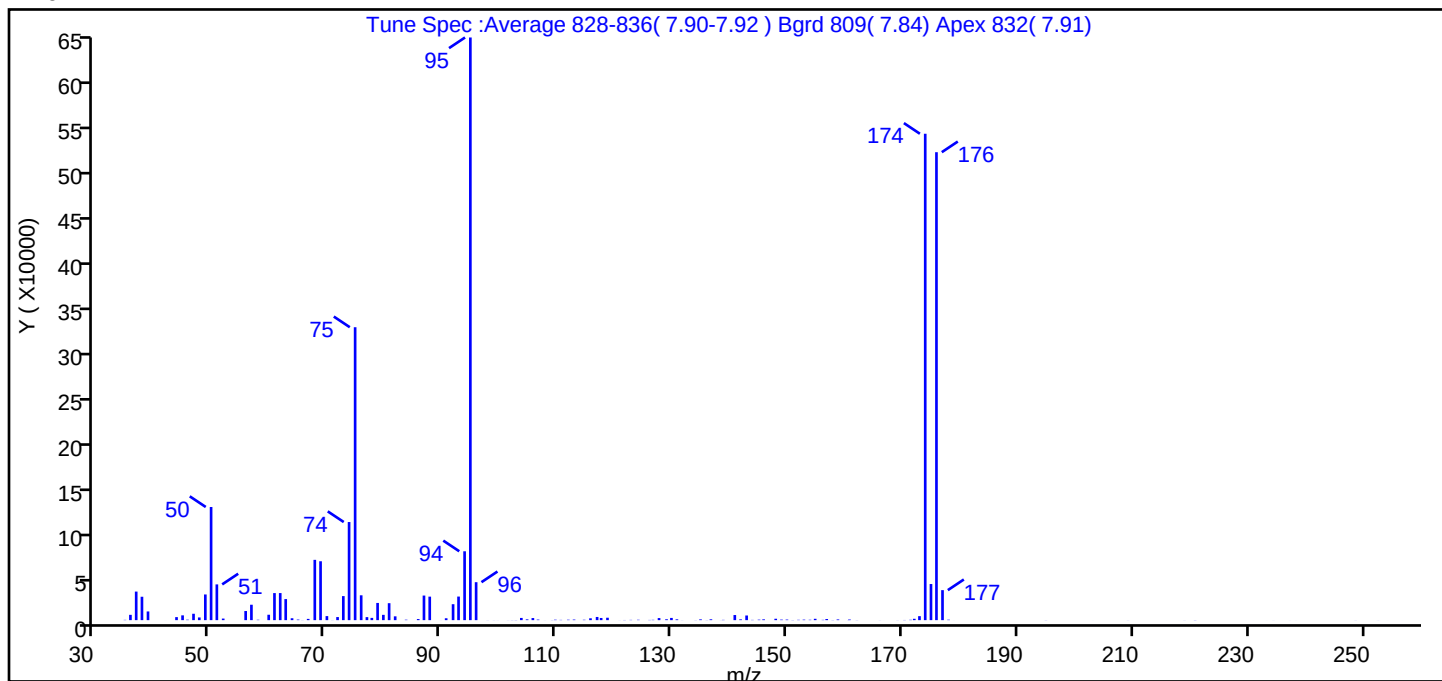
Amount Added: 2.00

Units: mL

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\BFB 1.D
Injection Date: 20-Nov-2024 14:40:28 Instrument ID: GCMS-FE
Lims ID: BFB
Client ID:
Operator ID: BC ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 2.0 mL Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Tune Method: BFB Method 524

10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% Relative Abundance	100.0
50	15-40% of mass 95	19.4
75	30-80% of mass 95	50.3
96	5-9% of mass 95	6.5
173	<2% of mass 174	0.7 (0.8)
174	>50% of mass 95	83.5
175	5-9% of mass 174	6.2 (7.4)
176	>95% but <101% of mass 174	80.3 (96.2)
177	5-9% of mass 176	5.1 (6.4)

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\BFB 1.D\522_GCMS-FE.rslt\spectra.d
Injection Date: 20-Nov-2024 14:40:28
Spectrum: Tune Spec :Average 828-836(7.90-7.92) Bgrd 809(7.84) Apex 832(7.91)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 150

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	312	80.00	5886	124.00	425	169.00	77
36.00	5894	81.00	18824	126.00	234	170.00	192
37.00	31712	82.00	4229	127.00	357	171.00	382
38.00	25968	84.00	496	128.00	2289	172.00	1501
39.00	9645	86.00	1199	129.00	994	173.00	4432
42.00	21	87.00	27296	130.00	2462	174.00	539968
44.00	3363	88.00	26096	131.00	900	175.00	40096
45.00	5321	90.00	41	132.00	70	176.00	519488
46.00	494	91.00	2086	134.00	105	177.00	33304
47.00	7090	92.00	17696	135.00	862	178.00	485
48.00	2991	93.00	26184	136.00	103	179.00	25
49.00	28512	94.00	76448	137.00	940	184.00	10
50.00	125608	95.00	646848	138.00	60	184.00	6
51.00	39688	96.00	42136	139.00	313	195.00	103
52.00	1751	98.00	74	141.00	5677	203.00	19
56.00	10114	99.00	68	142.00	859	209.00	69
57.00	17112	100.00	45	143.00	5160	216.00	11
58.00	442	102.00	65	144.00	282	218.00	14
60.00	5999	102.00	113	145.00	542	219.00	63
61.00	30032	103.00	150	146.00	888	220.00	6
62.00	30064	104.00	2457	148.00	1547	221.00	149
63.00	23384	105.00	862	149.00	595	225.00	6
64.00	2099	106.00	2319	150.00	642	230.00	9
65.00	642	107.00	633	151.00	152	231.00	13
66.00	83	108.00	38	152.00	373	233.00	18
67.00	1386	109.00	110	153.00	568	234.00	41
68.00	66936	110.00	489	154.00	422	236.00	6
69.00	65368	111.00	284	155.00	1500	237.00	32
70.00	4491	112.00	478	156.00	319	238.00	24
71.00	82	113.00	651	157.00	1234	249.00	65
72.00	3419	115.00	433	158.00	139	252.00	40
73.00	26696	116.00	2047	159.00	785	253.00	23
74.00	108904	117.00	3532	161.00	79	254.00	15

Report Date: 21-Nov-2024 10:58:43

Chrom Revision: 2.3 12-Nov-2024 16:55:22

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\BFB 1.D\522_GCMS-FE.rslt\spectra.d

Injection Date: 20-Nov-2024 14:40:28

Spectrum: Tune Spec :Average 828-836(7.90-7.92) Bgrd 809(7.84) Apex 832(7.91)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 150

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	325184	118.00	2409	161.00	690	257.00	14
76.00	27584	119.00	2684	162.00	108	260.00	6
77.00	3354	121.00	47	163.00	3	260.00	7
78.00	2502	122.00	181	166.00	67		
79.00	19088	123.00	290	167.00	16		

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\BFB 1.D

Injection Date: 20-Nov-2024 14:40:28

Instrument ID: GCMS-FE

Lims ID: BFB

Client ID:

Operator ID: BC

ALS Bottle#:

2

Worklist Smp#:

1

Injection Vol: 2.0 mL

Dil. Factor:

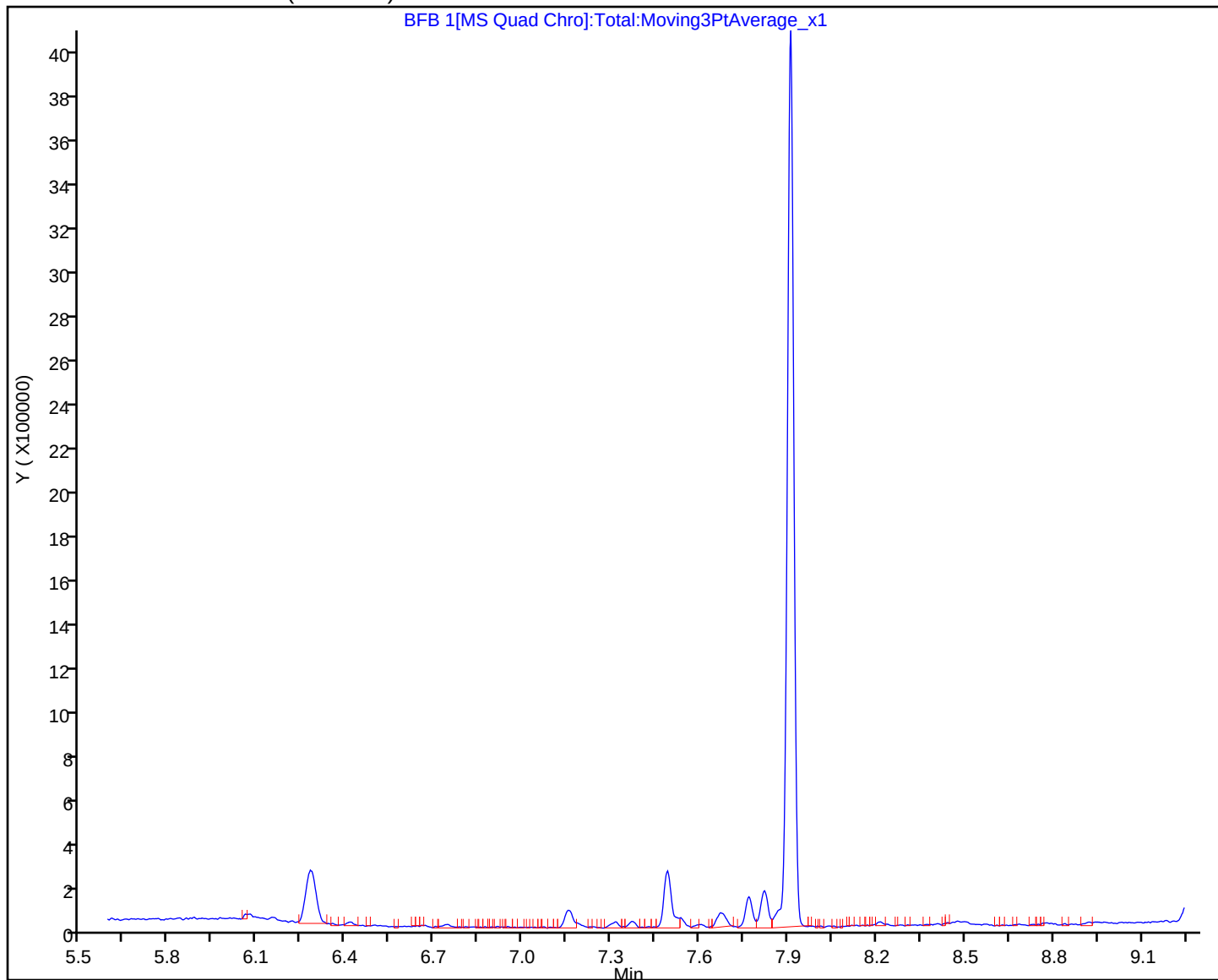
1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-129010-1
SDG No.:
Client Sample ID: Lab Sample ID: MBL 810-124065/1-A
Matrix: Drinking Water Lab File ID: MBL.D
Analysis Method: 522 Date Collected:
Extract. Method: 522 Date Extracted: 11/25/2024 04:36
Sample wt/vol: 100 (mL) Date Analyzed: 11/25/2024 12:37
Con. Extract Vol.: 2 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: CPSelect 624 MS ID: 0.25 (mm)
% Moisture: % Solids: GPC Cleanup: (Y/N) N
Cleanup Factor: Level: (low/med) Low
Analysis Batch No.: 124118 Units: ug/L
Preparation Batch No.: 124065 Instrument ID: GCMS-FE

CAS NO.	COMPOUND NAME	RESULT	Q	RL
123-91-1	1,4-Dioxane	<0.062		0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8 (Surr)	93		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\MBL.D
Lims ID: MBL 810-124065/1-A
Client ID:
Sample Type: MBL
Inject. Date: 25-Nov-2024 12:37:45 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-002
Misc. Info.: MBL 810-124065/1-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:35:56 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 11:18:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.212	6.212	0.000	24	177439	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.289	8.289	0.000	100	148891	500.0	463.9	
11 1,4-Dioxane	88	8.372	8.362	0.010	76	484		1.57	M
10 BFB									

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\MBL.D

Injection Date: 25-Nov-2024 12:37:45

Instrument ID: GCMS-FE

Lims ID: MBL 810-124065/1-A

Client ID:

Operator ID: BC

ALS Bottle#:

3

Worklist Smp#:

2

Injection Vol: 1.0 ul

Dil. Factor:

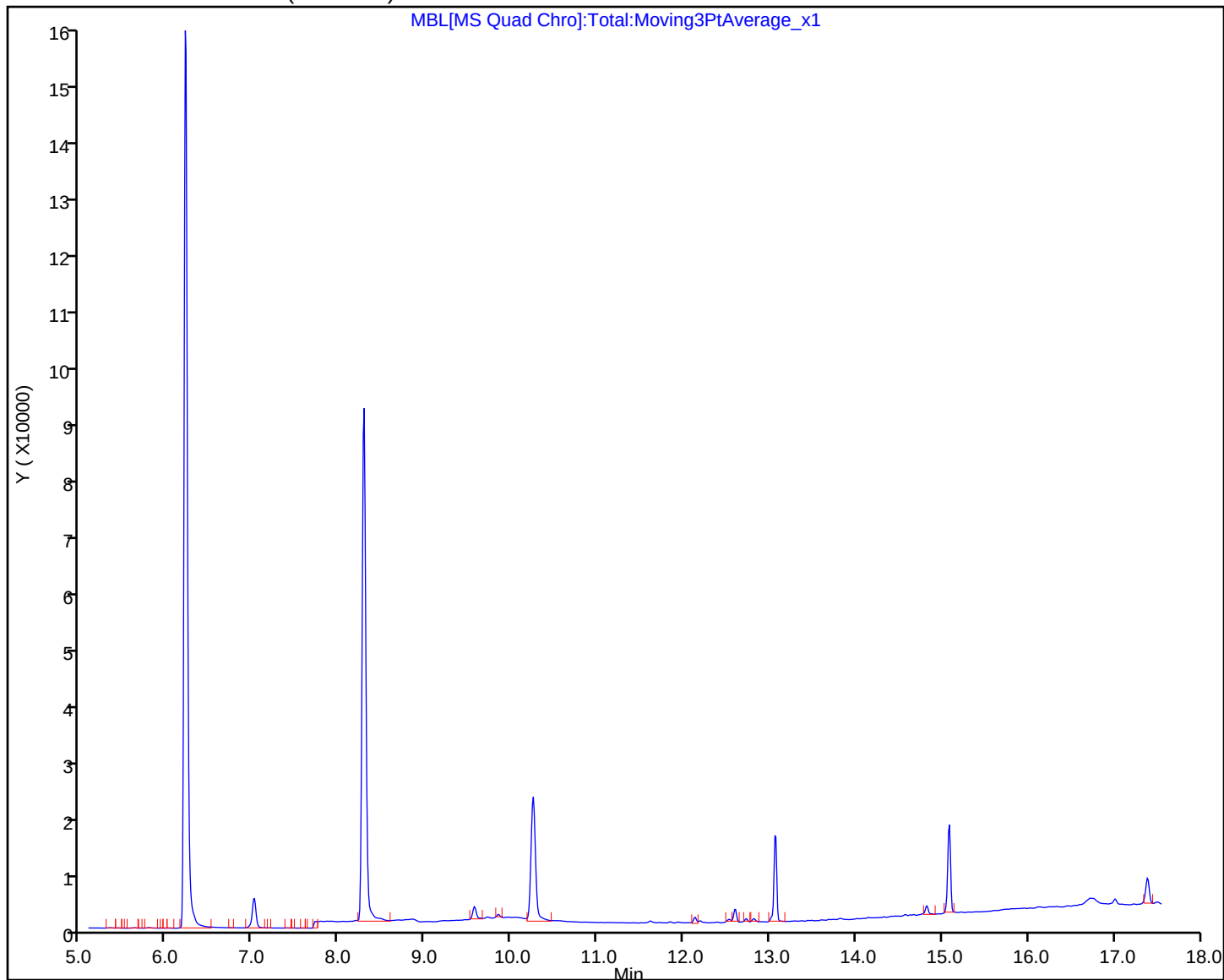
1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend
Recovery Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\MBL.D
Lims ID: MBL 810-124065/1-A
Client ID:
Sample Type: MBL
Inject. Date: 25-Nov-2024 12:37:45 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-002
Misc. Info.: MBL 810-124065/1-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:35:56 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 11:18:58

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	463.9	92.79

Eurofins Eaton Analytical South Bend

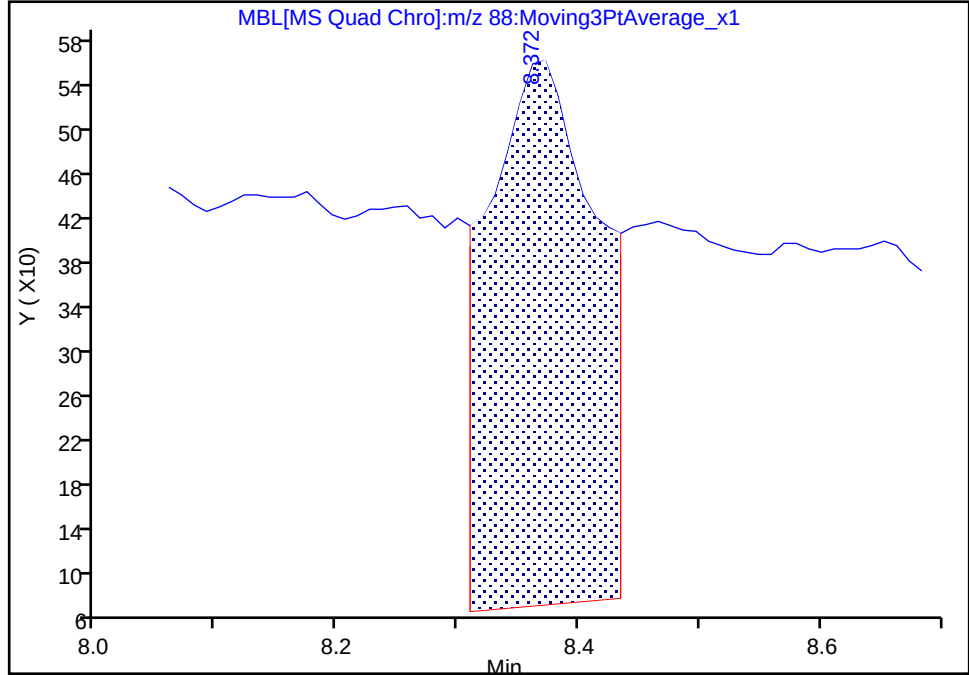
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\MBL.D
Injection Date: 25-Nov-2024 12:37:45 Instrument ID: GCMS-FE
Lims ID: MBL 810-124065/1-A
Client ID:
Operator ID: BC ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

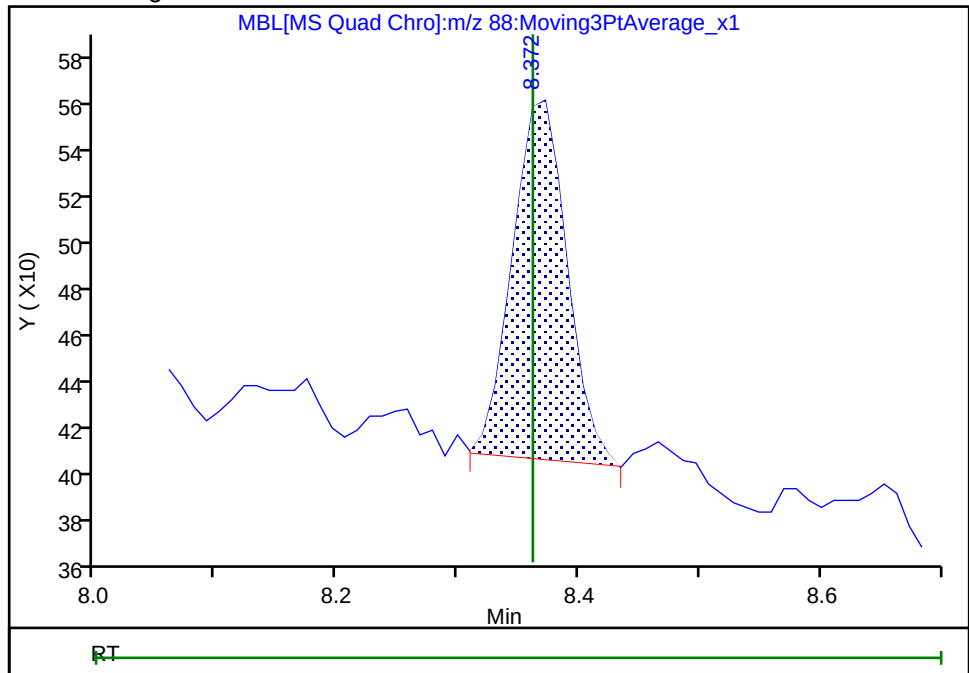
RT: 8.37
Area: 3249
Amount: 9.900096
Amount Units: ug/l

Processing Integration Results



RT: 8.37
Area: 484
Amount: 1.568625
Amount Units: ug/l

Manual Integration Results



Reviewer: UBRC, 26-Nov-2024 11:18:02 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\MBL.D

Injection Date: 25-Nov-2024 12:37:45

Instrument ID: GCMS-FE

Lims ID: MBL 810-124065/1-A

Client ID:

Operator ID: BC

ALS Bottle#:

3

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

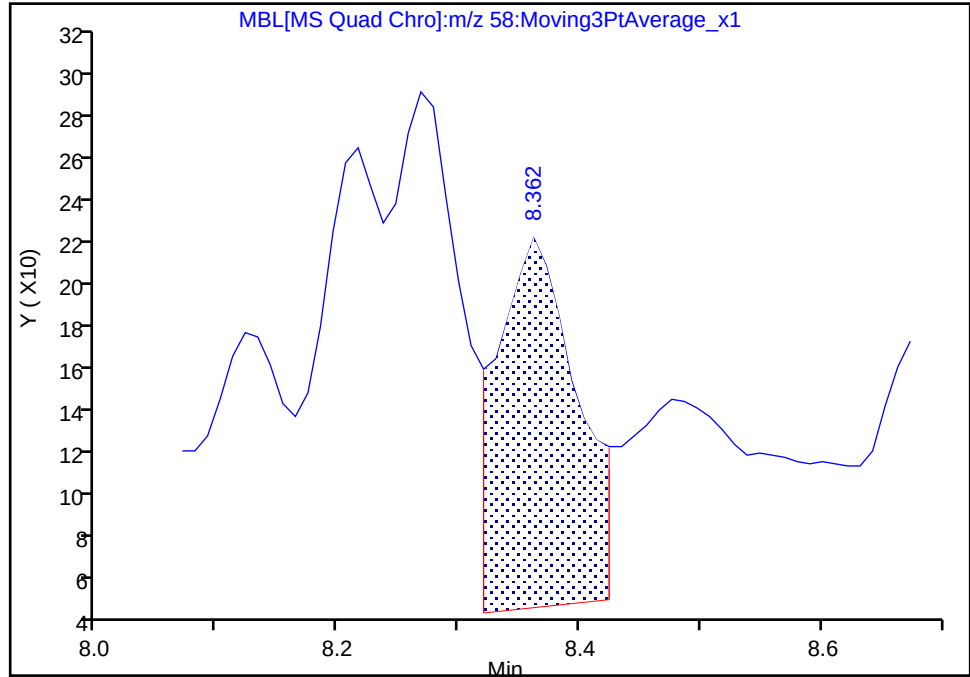
MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 2

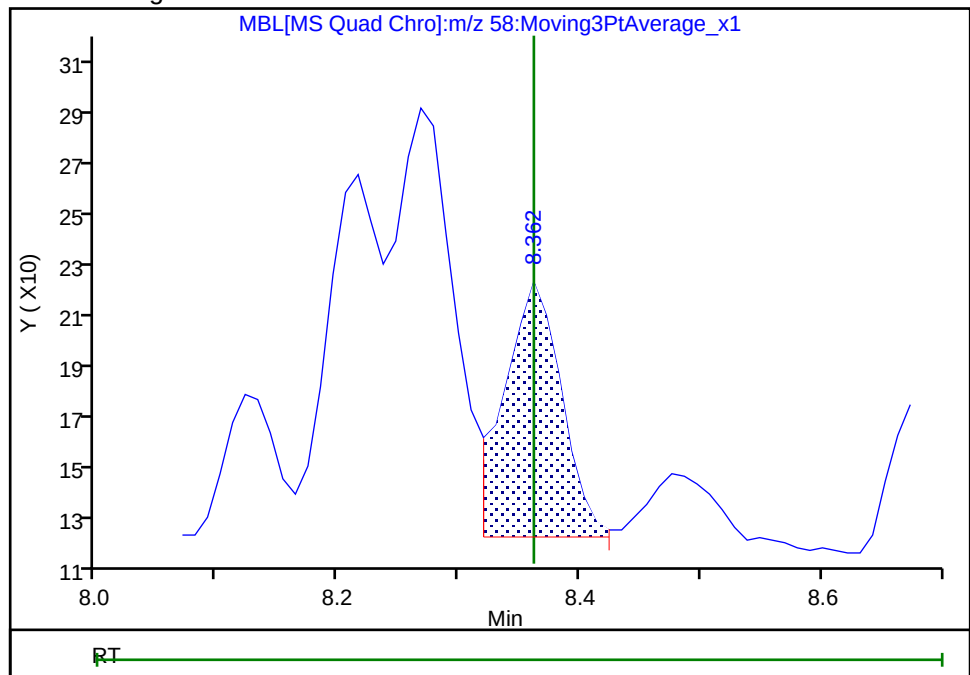
RT: 8.36
Area: 828
Amount: 9.900096
Amount Units: ug/l

Processing Integration Results



RT: 8.36
Area: 337
Amount: 1.568625
Amount Units: ug/l

Manual Integration Results



Reviewer: UBRC, 26-Nov-2024 11:18:31 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Eaton Analytical South Bend
Job No.: 810-129010-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 810-124065/3-A

Matrix: Drinking Water Lab File ID: LCS.D

Analysis Method: 522 Date Collected: _____

Extract. Method: 522 Date Extracted: 11/25/2024 04:36

Sample wt/vol: 100 (mL) Date Analyzed: 11/25/2024 13:21

Con. Extract Vol.: 2 (mL) Dilution Factor: 1

Injection Volume: 1 (uL) GC Column: CPSelect 624 MS ID: 0.25 (mm)

% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N

Cleanup Factor: _____ Level: (low/med) Low

Analysis Batch No.: 124118 Units: ug/L

Preparation Batch No.: 124065 Instrument ID: GCMS-FE

CAS NO.	COMPOUND NAME	RESULT	Q	RL
123-91-1	1,4-Dioxane	0.989		0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8 (Surr)	97		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\LCS.D
 Lims ID: LCS 810-124065/3-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 25-Nov-2024 13:21:32 ALS Bottle#: 5 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0031753-004
 Misc. Info.: LCS 810-124065/3-A
 Operator ID: BC Instrument ID: GCMS-FE
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 26-Nov-2024 13:35:56 Calib Date: 20-Nov-2024 18:02:23
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 11:31:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.212	6.212	0.000	24	173614	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.289	8.289	0.000	100	152075	500.0	484.3	
11 1,4-Dioxane	88	8.362	8.362	0.000	81	16016	50.0	49.4	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\LCS.D

Injection Date: 25-Nov-2024 13:21:32

Instrument ID: GCMS-FE

Lims ID: LCS 810-124065/3-A

Client ID:

Operator ID: BC

ALS Bottle#:

5

Worklist Smp#:

4

Injection Vol: 1.0 ul

Dil. Factor:

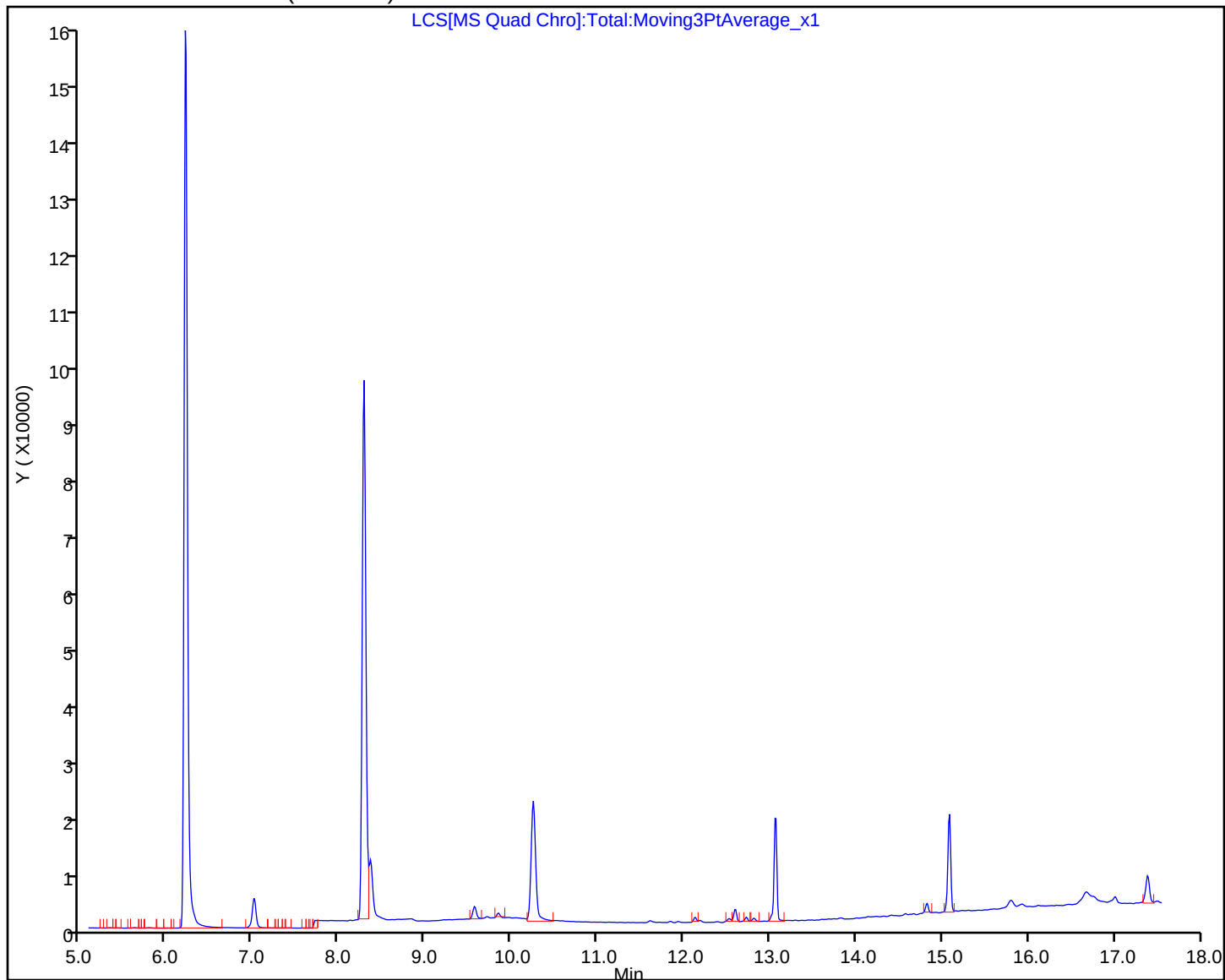
1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend
Recovery Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\LCS.D
Lims ID: LCS 810-124065/3-A
Client ID:
Sample Type: LCS
Inject. Date: 25-Nov-2024 13:21:32 ALS Bottle#: 5 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-004
Misc. Info.: LCS 810-124065/3-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:35:56 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 11:31:42

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	484.3	96.86

Eurofins Eaton Analytical South Bend

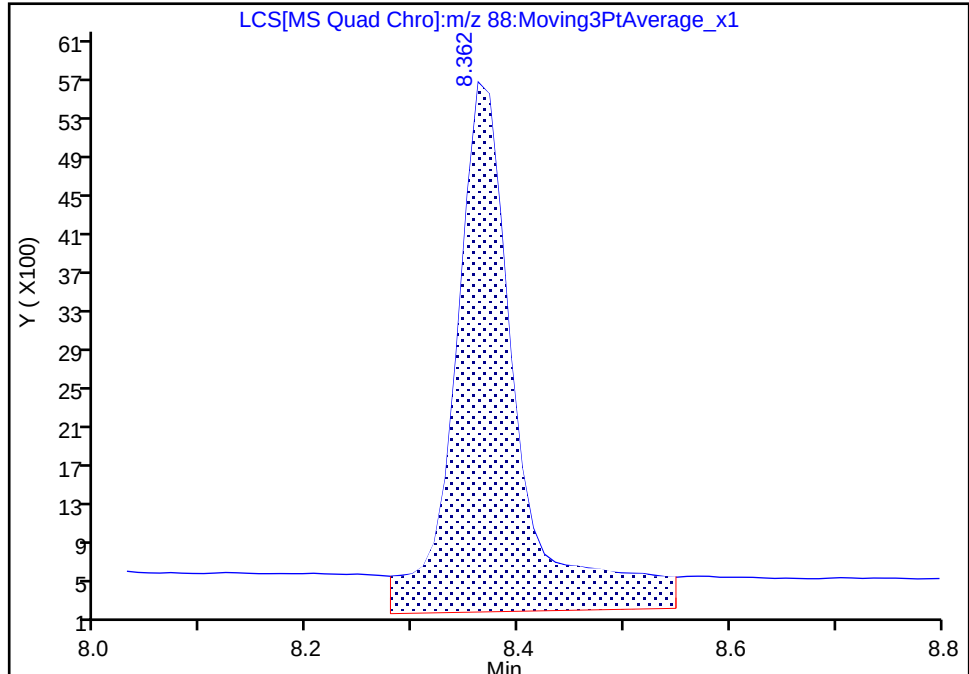
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\LCS.D
Injection Date: 25-Nov-2024 13:21:32 Instrument ID: GCMS-FE
Lims ID: LCS 810-124065/3-A
Client ID:
Operator ID: BC ALS Bottle#: 5 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector: MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

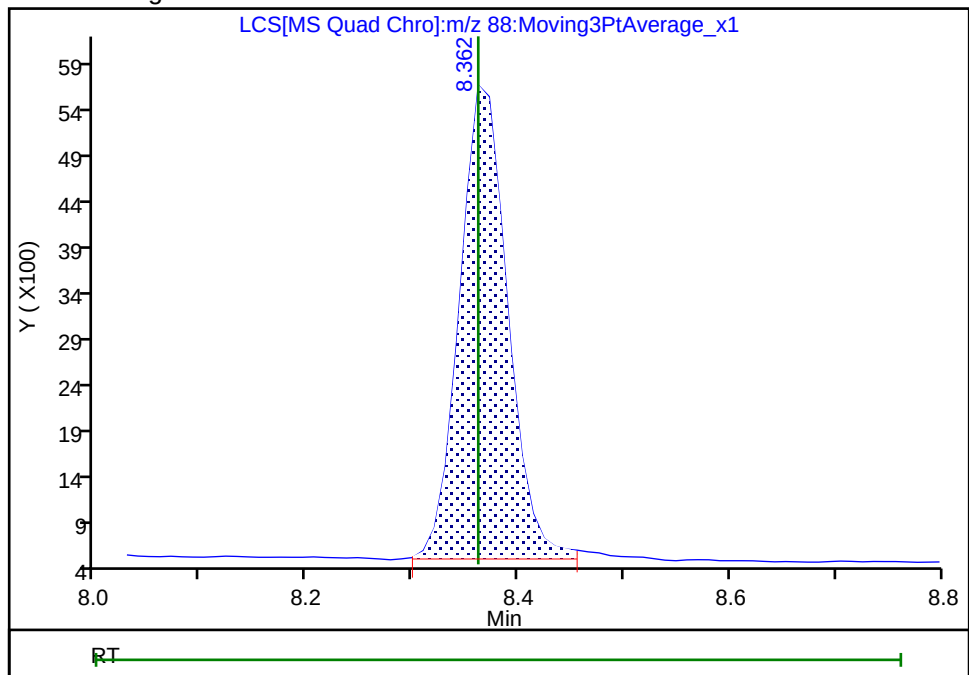
RT: 8.36
Area: 22527
Amount: 69.483844
Amount Units: ug/l

Processing Integration Results



RT: 8.36
Area: 16016
Amount: 49.432726
Amount Units: ug/l

Manual Integration Results



Reviewer: UBRC, 26-Nov-2024 11:31:08 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\LCS.D

Injection Date: 25-Nov-2024 13:21:32

Instrument ID: GCMS-FE

Lims ID: LCS 810-124065/3-A

Client ID:

Operator ID: BC

ALS Bottle#:

5

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

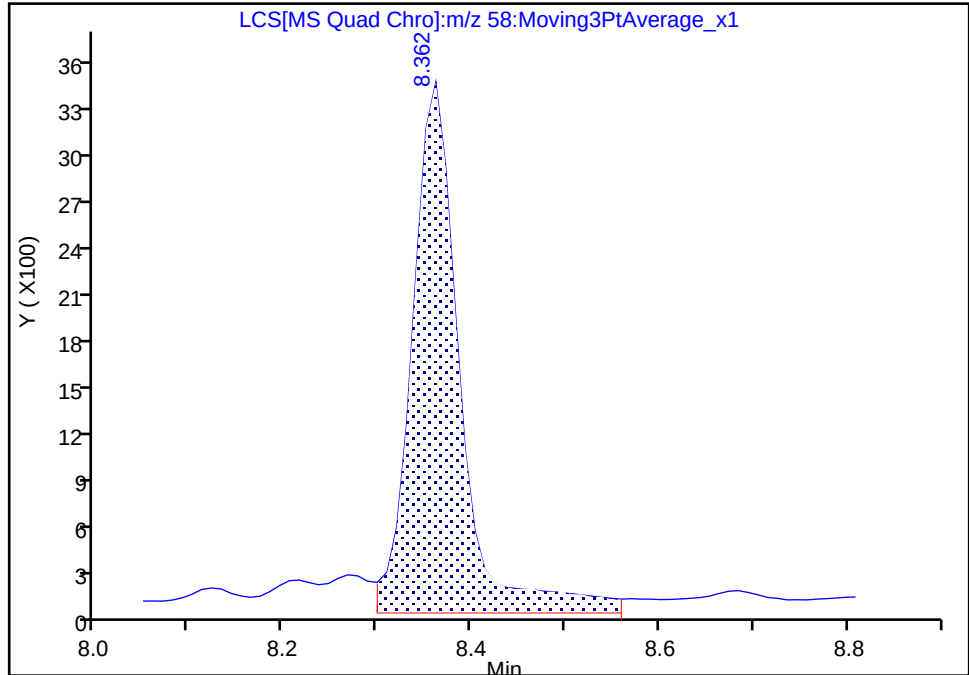
MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 2

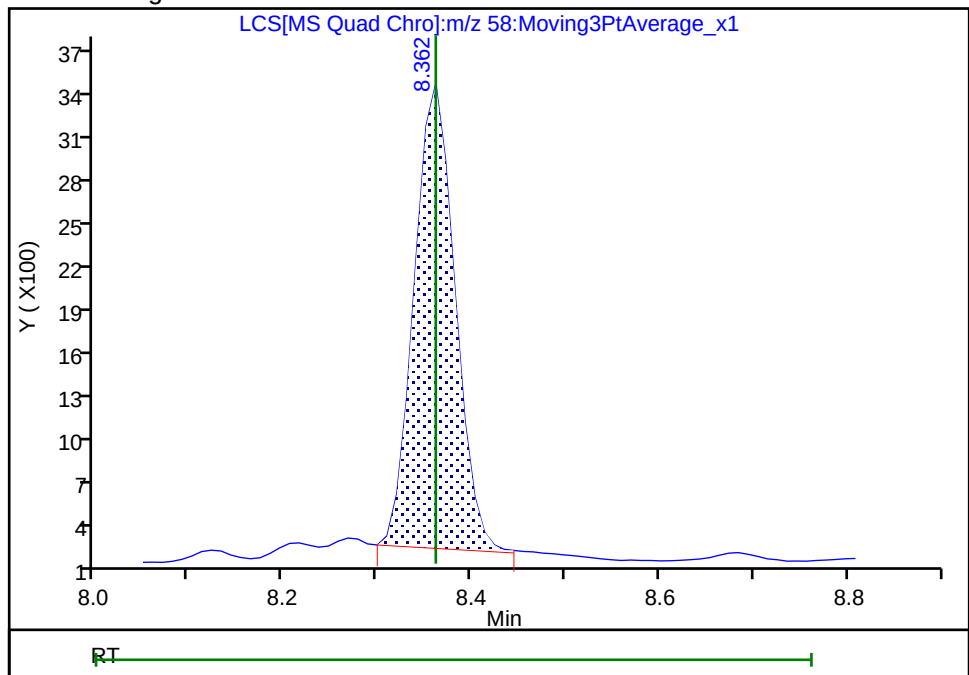
RT: 8.36
Area: 12278
Amount: 69.483844
Amount Units: ug/l

Processing Integration Results



RT: 8.36
Area: 9793
Amount: 49.432726
Amount Units: ug/l

Manual Integration Results



Reviewer: UBRC, 26-Nov-2024 11:31:32 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-129010-1
SDG No.:
Client Sample ID: Lab Sample ID: LLCS 810-124065/2-A
Matrix: Drinking Water Lab File ID: LLCS.D
Analysis Method: 522 Date Collected:
Extract. Method: 522 Date Extracted: 11/25/2024 04:36
Sample wt/vol: 100 (mL) Date Analyzed: 11/25/2024 12:59
Con. Extract Vol.: 2 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: CPSelect 624 MS ID: 0.25 (mm)
% Moisture: % Solids: GPC Cleanup: (Y/N) N
Cleanup Factor: Level: (low/med) Low
Analysis Batch No.: 124118 Units: ug/L
Preparation Batch No.: 124065 Instrument ID: GCMS-FE

CAS NO.	COMPOUND NAME	RESULT	Q	RL
123-91-1	1,4-Dioxane	0.0919		0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8 (Surr)	87		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\LLCS.D
 Lims ID: LLCS 810-124065/2-A
 Client ID:
 Sample Type: LLCS
 Inject. Date: 25-Nov-2024 12:59:30 ALS Bottle#: 4 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0031753-003
 Misc. Info.: LLCS 810-124065/2-A
 Operator ID: BC Instrument ID: GCMS-FE
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 26-Nov-2024 13:44:44 Calib Date: 20-Nov-2024 18:02:23
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 11:30:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.212	6.212	0.000	27	184229	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.289	8.289	0.000	100	144870	500.0	434.8	
11 1,4-Dioxane	88	8.372	8.362	0.010	79	1546	3.50	4.60	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\LLCS.D

Injection Date: 25-Nov-2024 12:59:30

Instrument ID: GCMS-FE

Lims ID: LLCS 810-124065/2-A

Client ID:

Operator ID: BC

ALS Bottle#: 4

Worklist Smp#: 3

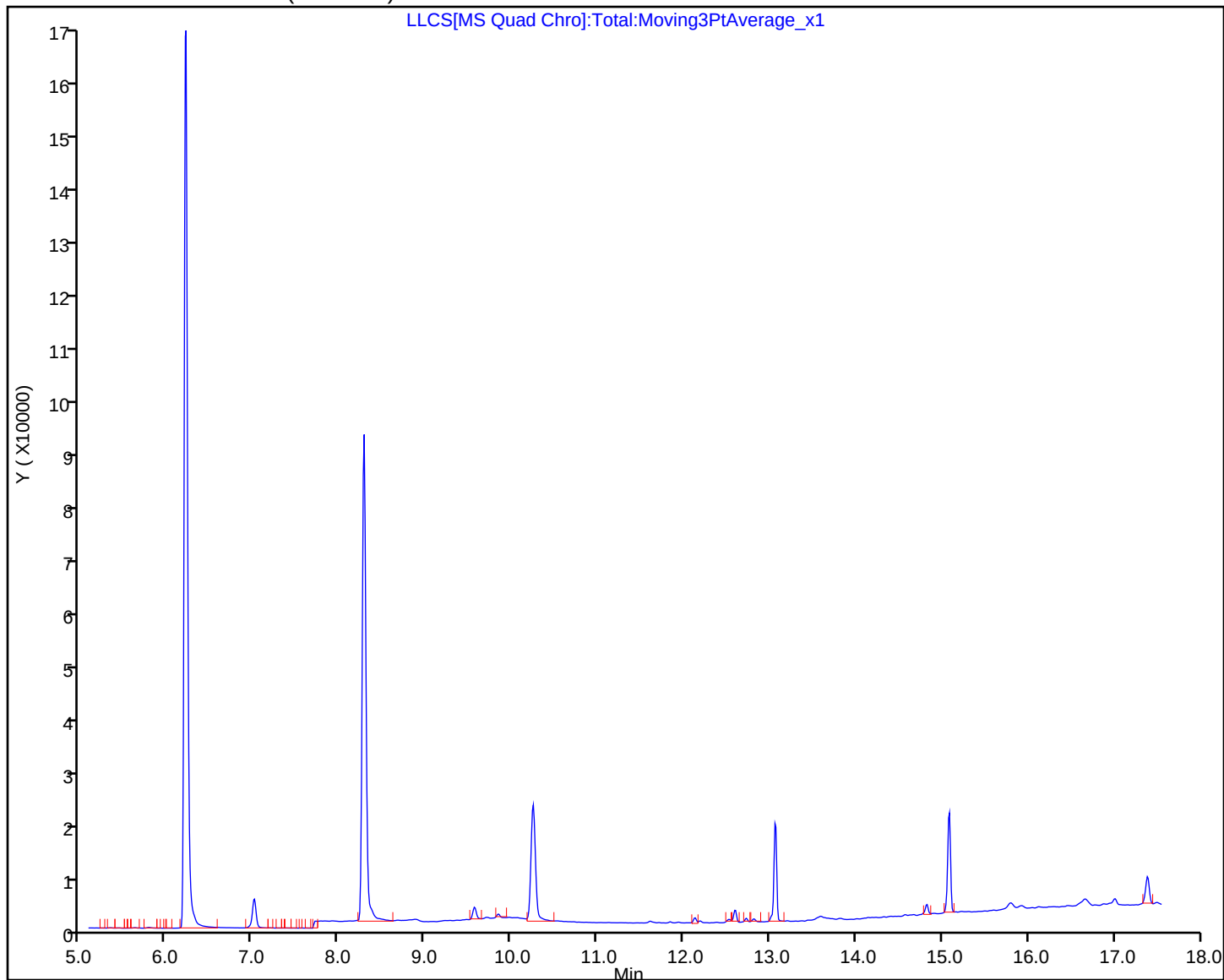
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend
Recovery Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\LLCS.D
Lims ID: LLCS 810-124065/2-A
Client ID:
Sample Type: LLCS
Inject. Date: 25-Nov-2024 12:59:30 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-003
Misc. Info.: LLCS 810-124065/2-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:44:44 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 11:30:28

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	434.8	86.95

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\LLCS.D

Injection Date: 25-Nov-2024 12:59:30

Instrument ID: GCMS-FE

Lims ID: LLCS 810-124065/2-A

Client ID:

Operator ID: BC

ALS Bottle#:

4

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)

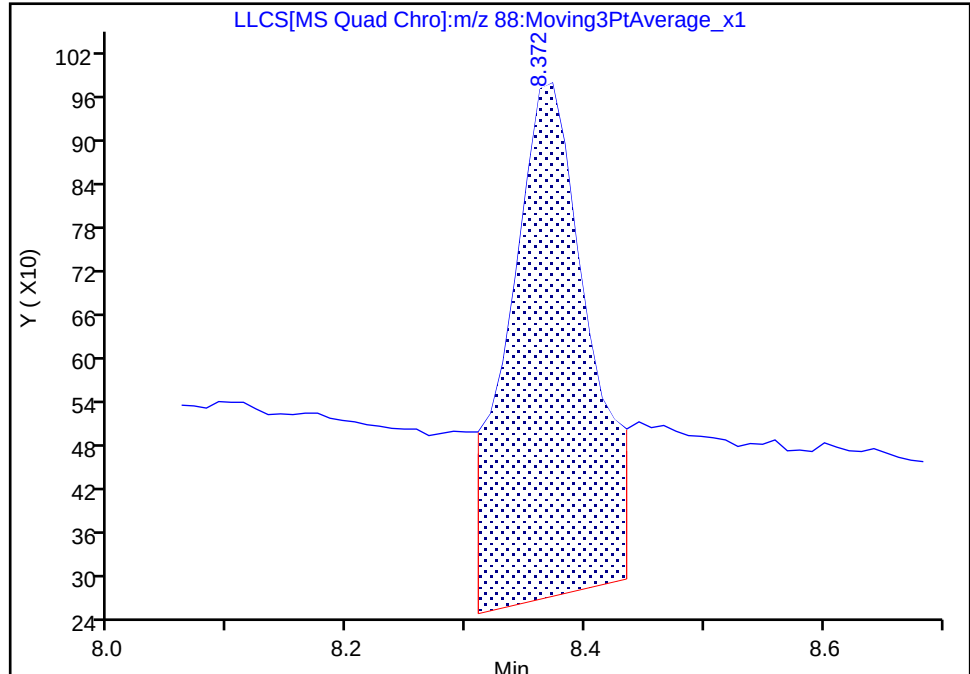
Detector: MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

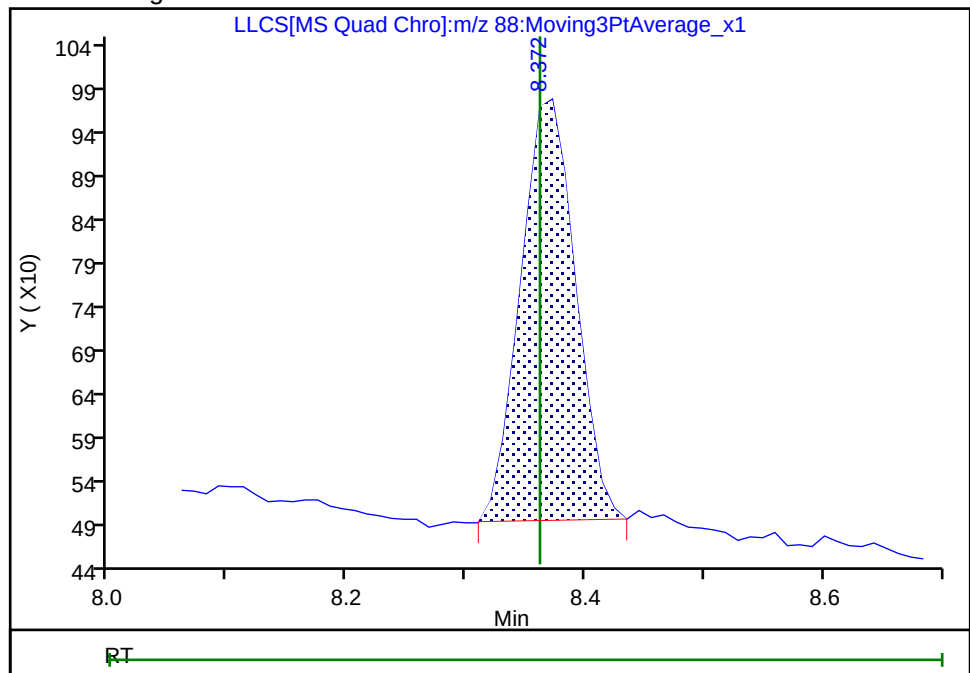
RT: 8.37
Area: 3406
Amount: 9.994913
Amount Units: ug/l

Processing Integration Results



RT: 8.37
Area: 1546
Amount: 4.596941
Amount Units: ug/l

Manual Integration Results



Reviewer: UBRC, 26-Nov-2024 11:29:02 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\LLCS.D

Injection Date: 25-Nov-2024 12:59:30

Instrument ID: GCMS-FE

Lims ID: LLCS 810-124065/2-A

Client ID:

Operator ID: BC

ALS Bottle#:

4

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

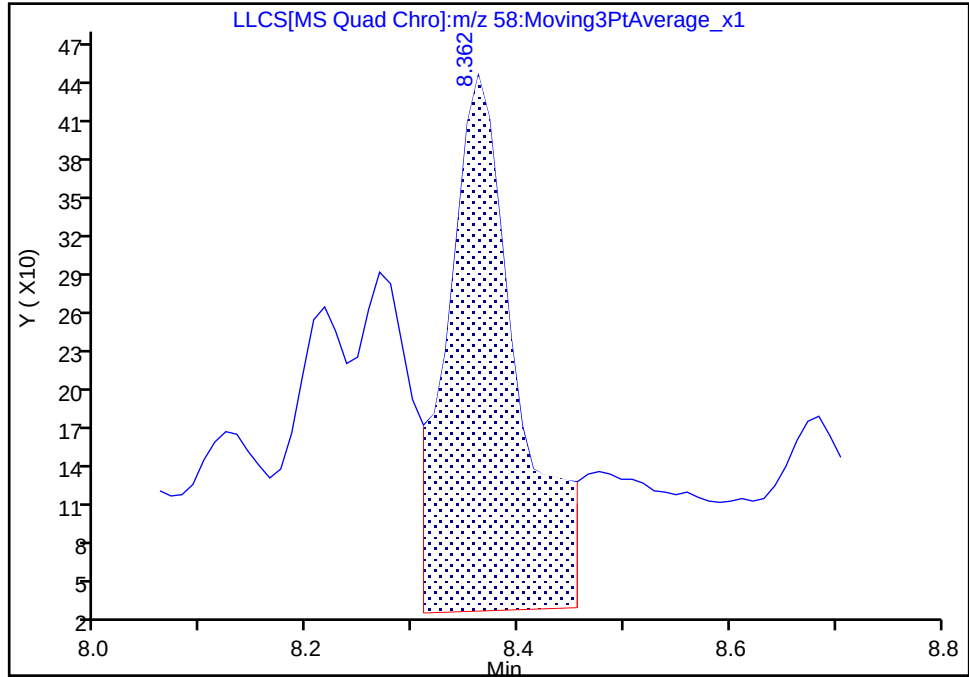
MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 2

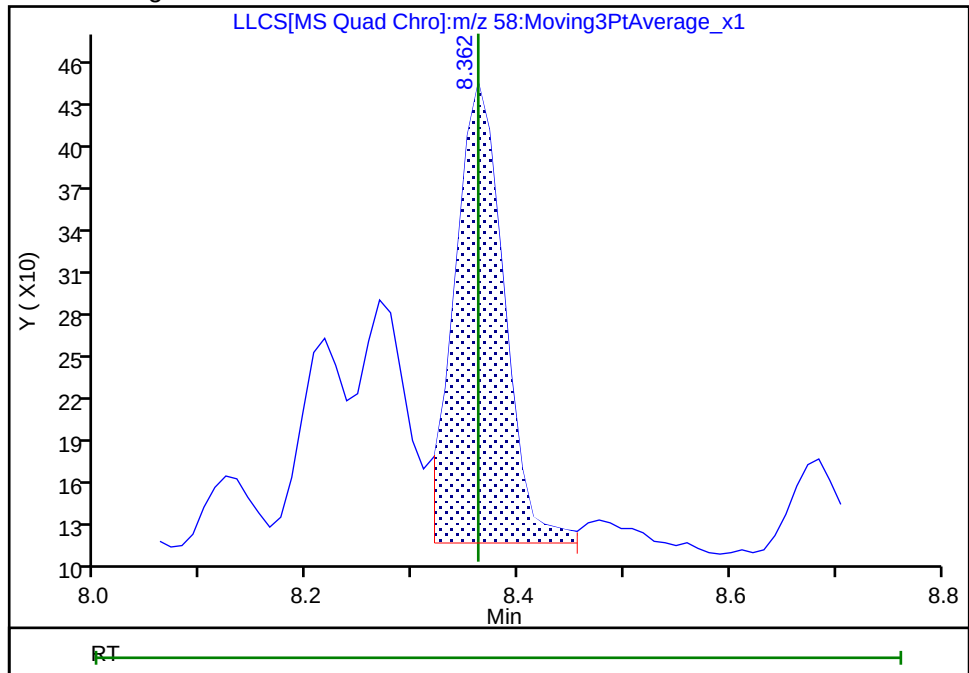
RT: 8.36
Area: 1958
Amount: 9.994913
Amount Units: ug/l

Processing Integration Results



RT: 8.36
Area: 1065
Amount: 4.596941
Amount Units: ug/l

Manual Integration Results



Reviewer: UBRC, 26-Nov-2024 11:29:20 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Eaton Analytical South Bend	Job No.: 810-129010-1
SDG No.:	
Client Sample ID: BPOW6-10-20241119MS MS	Lab Sample ID: 810-129010-4 MS
Matrix: Drinking Water	Lab File ID: 810-129010-A-4-A MS.D
Analysis Method: 522	Date Collected: 11/19/2024 11:00
Extract. Method: 522	Date Extracted: 11/25/2024 04:36
Sample wt/vol: 100 (mL)	Date Analyzed: 11/25/2024 18:47
Con. Extract Vol.: 2 (mL)	Dilution Factor: 1
Injection Volume: 1 (uL)	GC Column: CPSelect 624 MS ID: 0.25 (mm)
% Moisture: % Solids:	GPC Cleanup: (Y/N) N
Cleanup Factor:	Level: (low/med) Low
Analysis Batch No.: 124118	Units: ug/L
Preparation Batch No.: 124065	Instrument ID: GCMS-FE

CAS NO.	COMPOUND NAME	RESULT	Q	RL
123-91-1	1,4-Dioxane	0.983		0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8 (Surr)	97		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-4-A MS.D
Lims ID: 810-129010-A-4-A MS
Client ID: BPOW6-10-20241119MS
Sample Type: MS
Inject. Date: 25-Nov-2024 18:47:54 ALS Bottle#: 20 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-019
Misc. Info.: 810-129010-A-4-A MS
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:37:35 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 12:38:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.212	6.212	0.000	27	185745	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.289	8.289	0.000	99	162628	500.0	484.1	
11 1,4-Dioxane	88	8.362	8.361	0.001	81	17034	50.0	49.1	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-4-A MS.D

Injection Date: 25-Nov-2024 18:47:54

Instrument ID: GCMS-FE

Lims ID: 810-129010-A-4-A MS

Client ID: BPOW6-10-20241119MS

Operator ID: BC

ALS Bottle#: 20

Worklist Smp#: 19

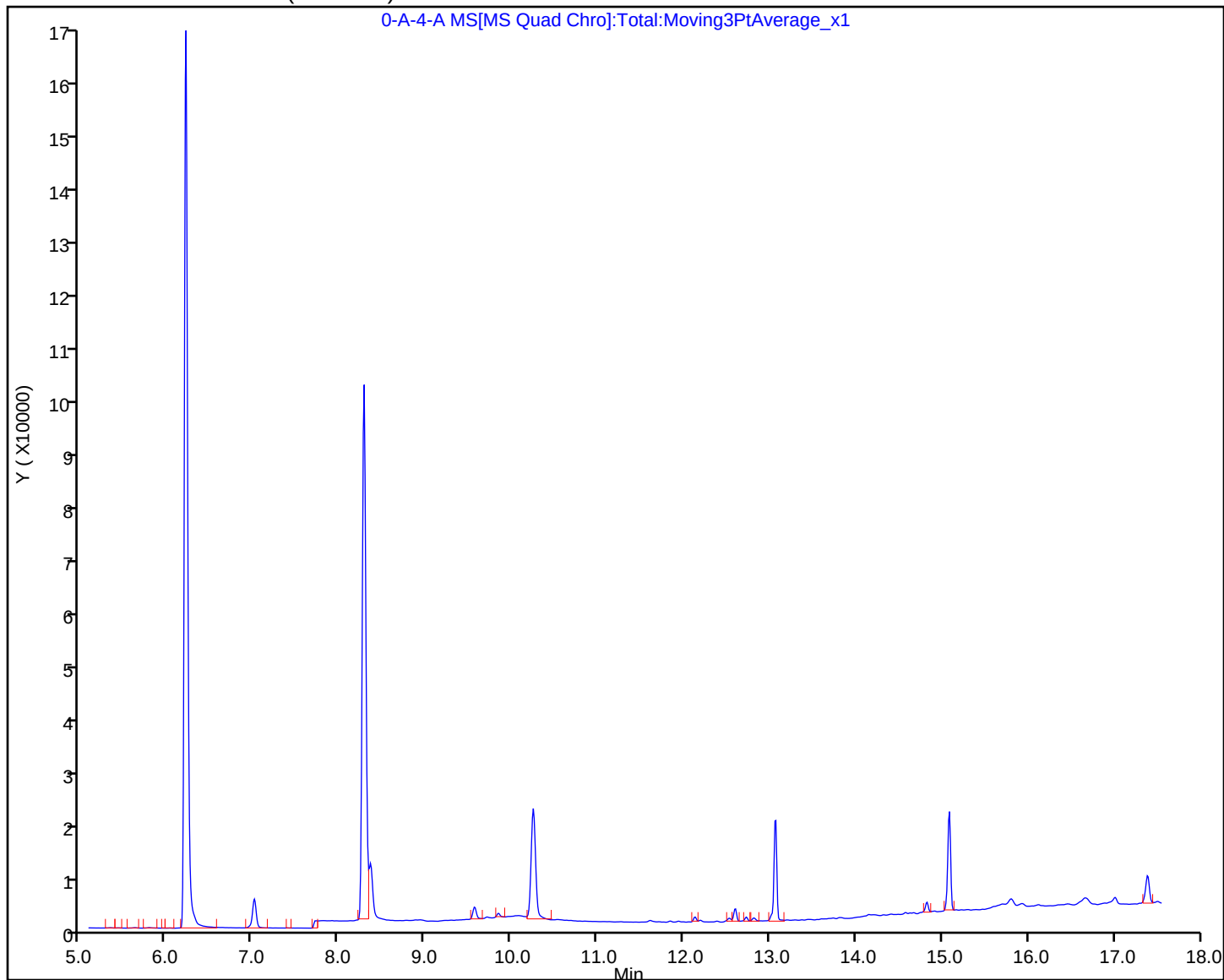
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend
Recovery Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-4-A MS.D
Lims ID: 810-129010-A-4-A MS
Client ID: BPOW6-10-20241119MS
Sample Type: MS
Inject. Date: 25-Nov-2024 18:47:54 ALS Bottle#: 20 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-019
Misc. Info.: 810-129010-A-4-A MS
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:37:35 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 12:38:51

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	484.1	96.81

Eurofins Eaton Analytical South Bend

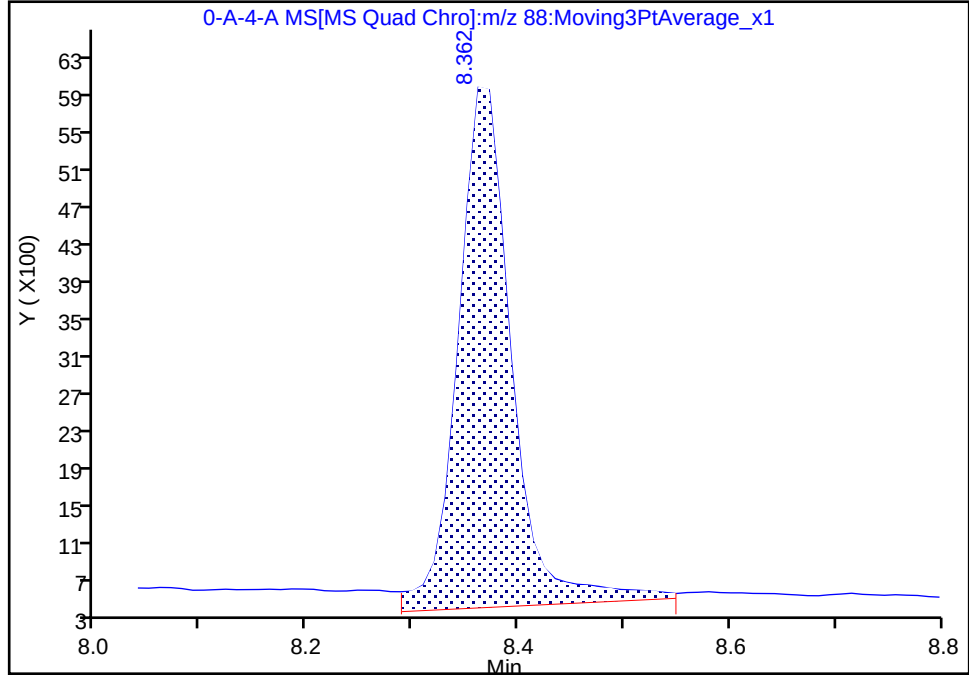
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-4-A MS.D
Injection Date: 25-Nov-2024 18:47:54 Instrument ID: GCMS-FE
Lims ID: 810-129010-A-4-A MS
Client ID: BPOW6-10-20241119MS
Operator ID: BC ALS Bottle#: 20 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector: MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

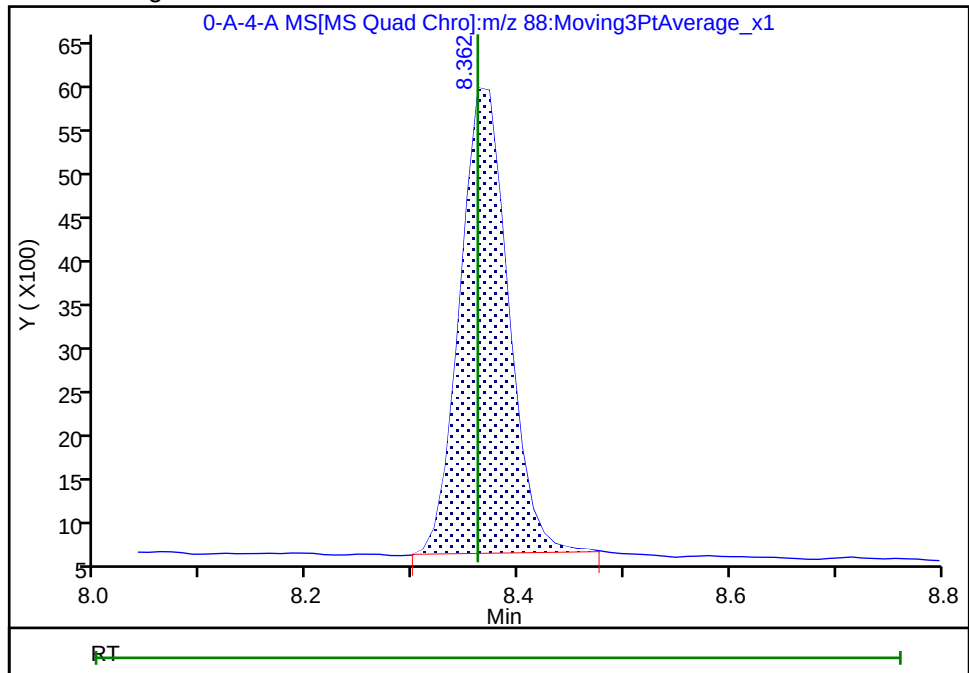
RT: 8.36
Area: 19782
Amount: 57.051714
Amount Units: ug/l

Processing Integration Results



RT: 8.36
Area: 17034
Amount: 49.141737
Amount Units: ug/l

Manual Integration Results



Reviewer: UBRC, 26-Nov-2024 12:37:56 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend

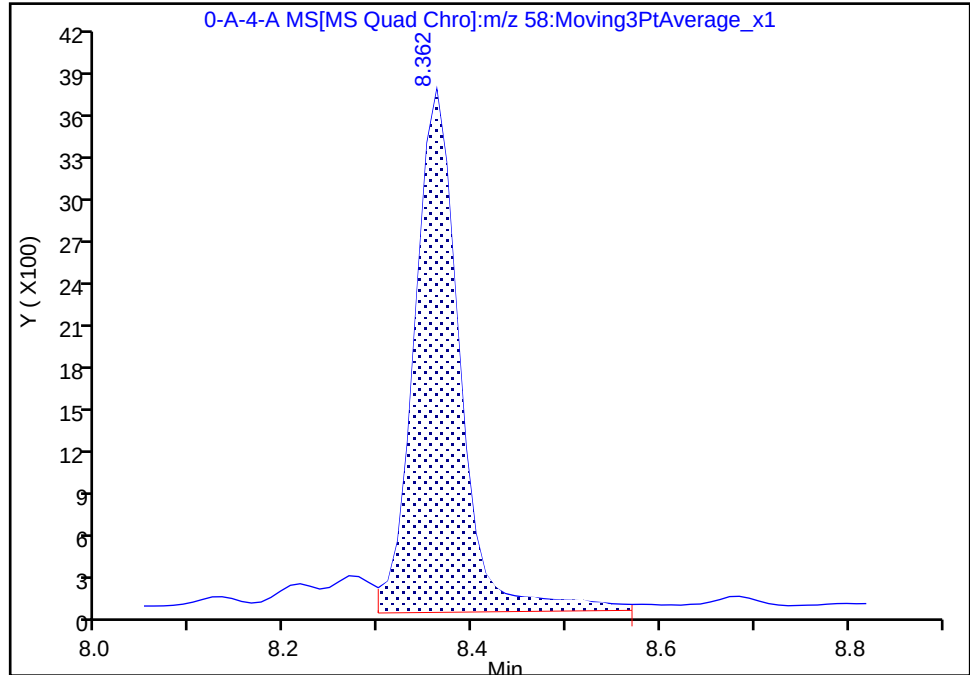
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-4-A MS.D
Injection Date: 25-Nov-2024 18:47:54 Instrument ID: GCMS-FE
Lims ID: 810-129010-A-4-A MS
Client ID: BPOW6-10-20241119MS
Operator ID: BC ALS Bottle#: 20 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 2

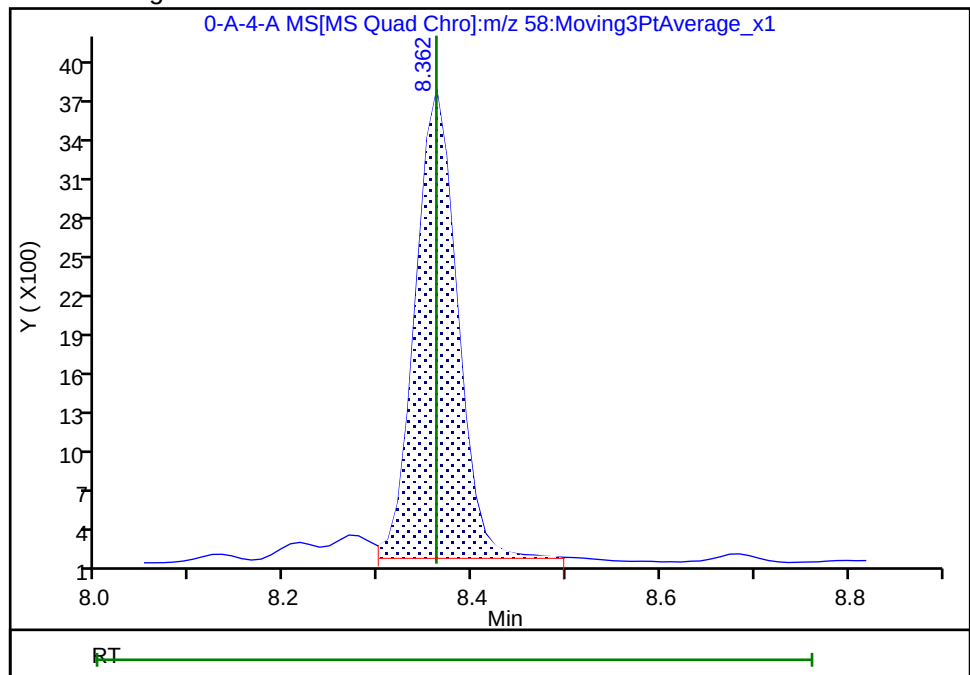
RT: 8.36
Area: 12467
Amount: 57.051714
Amount Units: ug/l

Processing Integration Results



RT: 8.36
Area: 11110
Amount: 49.141737
Amount Units: ug/l

Manual Integration Results



Reviewer: UBRC, 26-Nov-2024 12:38:31 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Eaton Analytical South Bend
Job No.: 810-129010-1

SDG No.:

Client Sample ID: BPOW6-10-20241119MSD MSD
Lab Sample ID: 810-129010-4 MSD

Matrix: Drinking Water
Lab File ID: 810-129010-A-4-B MSD.D

Analysis Method: 522
Date Collected: 11/19/2024 11:00

Extract. Method: 522
Date Extracted: 11/25/2024 04:36

Sample wt/vol: 100 (mL)
Date Analyzed: 11/25/2024 19:09

Con. Extract Vol.: 2 (mL)
Dilution Factor: 1

Injection Volume: 1 (uL)
GC Column: CPSelect 624 MS ID: 0.25 (mm)

% Moisture: % Solids:
GPC Cleanup: (Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 124118
Units: ug/L

Preparation Batch No.: 124065
Instrument ID: GCMS-FE

CAS NO.	COMPOUND NAME	RESULT	Q	RL
123-91-1	1,4-Dioxane	0.950		0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8 (Surr)	94		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-4-B MSD.D
Lims ID: 810-129010-A-4-B MSD
Client ID: BPOW6-10-20241119MSD
Sample Type: MSD
Inject. Date: 25-Nov-2024 19:09:41 ALS Bottle#: 21 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-020
Misc. Info.: 810-129010-A-4-B MSD
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:37:35 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 12:40:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.212	6.212	0.000	24	184713	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.289	8.289	0.000	99	156301	500.0	467.8	
11 1,4-Dioxane	88	8.372	8.361	0.011	82	16364	50.0	47.5	M

QC Flag Legend

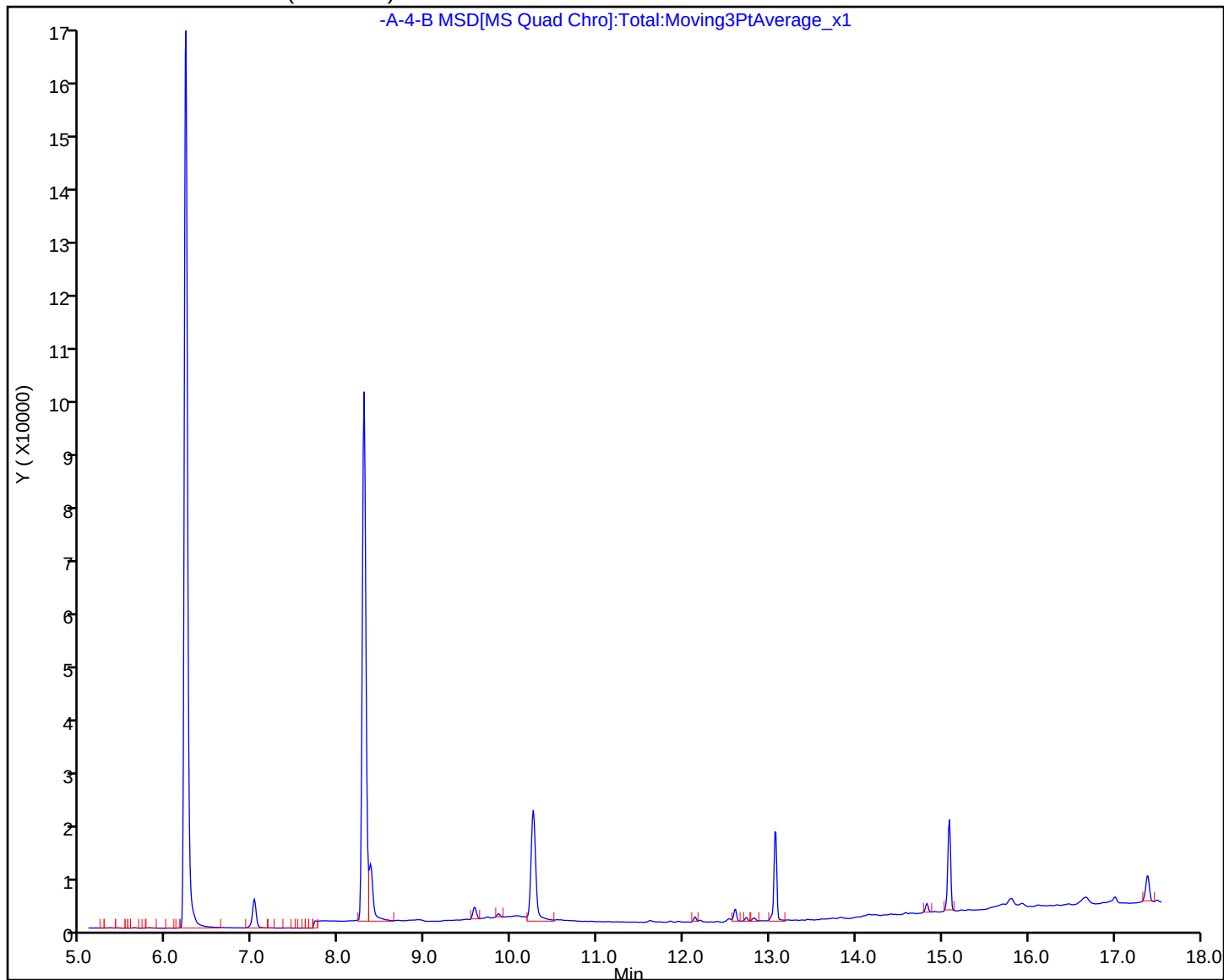
Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-4-B MSD.D
Injection Date: 25-Nov-2024 19:09:41 Instrument ID: GCMS-FE
Lims ID: 810-129010-A-4-B MSD
Client ID: BPOW6-10-20241119MSD
Operator ID: BC ALS Bottle#: 21 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend
Recovery Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-4-B MSD.D
Lims ID: 810-129010-A-4-B MSD
Client ID: BPOW6-10-20241119MSD
Sample Type: MSD
Inject. Date: 25-Nov-2024 19:09:41 ALS Bottle#: 21 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0031753-020
Misc. Info.: 810-129010-A-4-B MSD
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 26-Nov-2024 13:37:35 Calib Date: 20-Nov-2024 18:02:23
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241120-31576.b\IC 20.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1630

First Level Reviewer: UBRC

Date: 26-Nov-2024 12:40:20

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	467.8	93.57

Eurofins Eaton Analytical South Bend

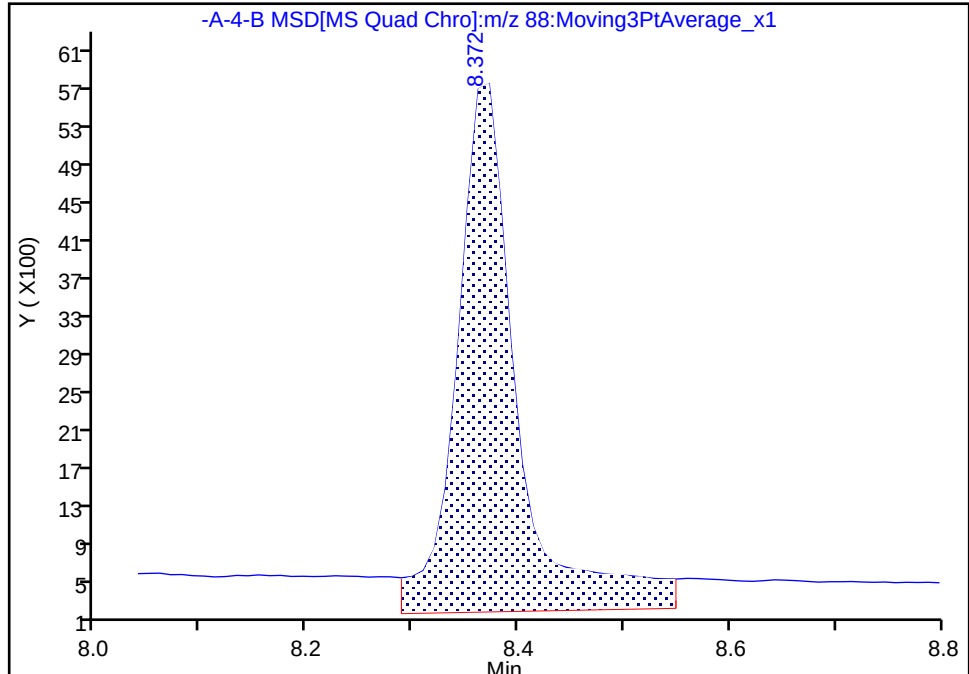
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20241125-31753.b\810-129010-A-4-B MSD.D
Injection Date: 25-Nov-2024 19:09:41 Instrument ID: GCMS-FE
Lims ID: 810-129010-A-4-B MSD
Client ID: BPOW6-10-20241119MSD
Operator ID: BC ALS Bottle#: 21 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector: MS Quad

11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

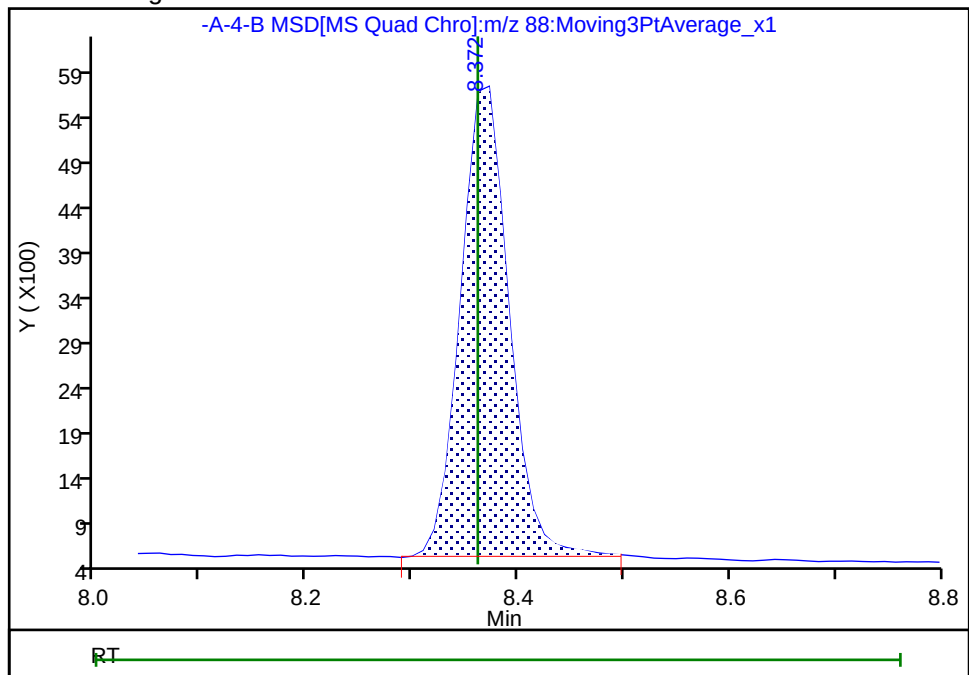
RT: 8.37
Area: 22158
Amount: 64.247254
Amount Units: ug/l

Processing Integration Results



RT: 8.37
Area: 16364
Amount: 47.476343
Amount Units: ug/l

Manual Integration Results



Reviewer: UBRC, 26-Nov-2024 12:39:47 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Eaton Analytical South Bend

Job No.: 810-129010-1

SDG No.:

Instrument ID: GCMS-FE

Start Date: 11/20/2024 14:40

Analysis Batch Number: 123541

End Date: 11/21/2024 05:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 810-123541/1		11/20/2024 14:40	1	BFB 1.D	CPSelect 624 MS 0.25 (mm)
IC 810-123437/4-A		11/20/2024 15:07	1	IC 007.D	CPSelect 624 MS 0.25 (mm)
IC 810-123437/5-A		11/20/2024 15:29	1	IC 01.D	CPSelect 624 MS 0.25 (mm)
IC 810-123437/6-A		11/20/2024 15:51	1	IC 02.D	CPSelect 624 MS 0.25 (mm)
IC 810-123437/7-A		11/20/2024 16:12	1	IC 05.D	CPSelect 624 MS 0.25 (mm)
ICISAV 810-123437/8-A		11/20/2024 16:34	1	IC 1.D	CPSelect 624 MS 0.25 (mm)
IC 810-123437/9-A		11/20/2024 16:56	1	IC 2.D	CPSelect 624 MS 0.25 (mm)
IC 810-123437/10-A		11/20/2024 17:18	1	IC 5.D	CPSelect 624 MS 0.25 (mm)
IC 810-123437/11-A		11/20/2024 17:40	1	IC 10.D	CPSelect 624 MS 0.25 (mm)
IC 810-123437/12-A		11/20/2024 18:02	1	IC 20.D	CPSelect 624 MS 0.25 (mm)
CCVLIS 810-123437/1-A		11/20/2024 18:46	1		CPSelect 624 MS 0.25 (mm)
ICV 810-123437/13-A		11/20/2024 19:07	1	ICV.D	CPSelect 624 MS 0.25 (mm)
ZZZZZ (QC)		11/20/2024 19:51	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (QC)		11/20/2024 20:13	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (QC)		11/20/2024 20:35	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/20/2024 20:57	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/20/2024 21:19	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/20/2024 21:41	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/20/2024 22:02	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/20/2024 22:24	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/20/2024 22:46	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/20/2024 23:08	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/20/2024 23:30	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/20/2024 23:52	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/21/2024 00:14	1		CPSelect 624 MS 0.25 (mm)
CCVIS 810-123437/2-A		11/21/2024 00:35	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/21/2024 00:57	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/21/2024 01:19	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/21/2024 01:41	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/21/2024 02:03	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (QC)		11/21/2024 02:25	1		CPSelect 624 MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-129010-1

SDG No.: _____

Instrument ID: GCMS-FE Start Date: 11/20/2024 14:40Analysis Batch Number: 123541 End Date: 11/21/2024 05:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ (QC)		11/21/2024 02:47	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/21/2024 03:09	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/21/2024 03:30	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/21/2024 03:52	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/21/2024 04:14	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/21/2024 04:36	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/21/2024 04:58	1		CPSelect 624 MS 0.25 (mm)
CCV 810-123437/3-A		11/21/2024 05:20	1		CPSelect 624 MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Eaton Analytical South Bend

Job No.: 810-129010-1

SDG No.:

Instrument ID: GCMS-FE

Start Date: 11/25/2024 11:53

Analysis Batch Number: 124118

End Date: 11/25/2024 23:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVLIS 810-124067/1-A		11/25/2024 11:53	1	CCVL.D	CPSelect 624 MS 0.25 (mm)
MBL 810-124065/1-A		11/25/2024 12:37	1	MBL.D	CPSelect 624 MS 0.25 (mm)
LLCS 810-124065/2-A		11/25/2024 12:59	1	LLCS.D	CPSelect 624 MS 0.25 (mm)
LCS 810-124065/3-A		11/25/2024 13:21	1	LCS.D	CPSelect 624 MS 0.25 (mm)
810-129010-1	BPOW6-11-20241118	11/25/2024 13:43	1	810-129010-A-1-A.D	CPSelect 624 MS 0.25 (mm)
810-129010-2	BPOW6-7-20241118	11/25/2024 14:04	1	810-129010-A-2-A.D	CPSelect 624 MS 0.25 (mm)
810-129010-3	DUP-01-20241118	11/25/2024 14:26	1	810-129010-A-3-A.D	CPSelect 624 MS 0.25 (mm)
810-129010-5	BPOW6-9-20241119	11/25/2024 14:48	1	810-129010-A-5-A.D	CPSelect 624 MS 0.25 (mm)
810-129010-6	FB-01-20241119	11/25/2024 15:10	1	810-129010-A-6-A.D	CPSelect 624 MS 0.25 (mm)
810-129010-7	BPOW6-8-20241119	11/25/2024 15:32	1	810-129010-A-7-A.D	CPSelect 624 MS 0.25 (mm)
810-129010-8	RB-01-20241119	11/25/2024 15:53	1	810-129010-A-8-A.D	CPSelect 624 MS 0.25 (mm)
810-129010-9	DUP-02-20241119	11/25/2024 16:15	1	810-129010-A-9-A.D	CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/25/2024 16:37	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/25/2024 16:59	1		CPSelect 624 MS 0.25 (mm)
CCVIS 810-124067/3-A		11/25/2024 17:20	1	CCVM.D	CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/25/2024 17:42	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/25/2024 18:04	1		CPSelect 624 MS 0.25 (mm)
810-129010-4	BPOW6-10-20241119	11/25/2024 18:26	1	810-129010-A-4-C.D	CPSelect 624 MS 0.25 (mm)
810-129010-4 MS	BPOW6-10-20241119MS MS	11/25/2024 18:47	1	810-129010-A-4-A MS.D	CPSelect 624 MS 0.25 (mm)
810-129010-4 MSD	BPOW6-10-20241119MSD MSD	11/25/2024 19:09	1	810-129010-A-4-B MSD.D	CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/25/2024 19:31	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/25/2024 19:53	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/25/2024 20:14	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/25/2024 20:36	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/25/2024 20:58	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/25/2024 21:20	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/25/2024 21:42	1		CPSelect 624 MS 0.25 (mm)
CCV 810-124067/5-A		11/25/2024 22:04	1	CCVH.D	CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/25/2024 22:26	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/25/2024 22:48	5		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		11/25/2024 23:10	5		CPSelect 624 MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-129010-1

SDG No.: _____

Instrument ID: GCMS-FE Start Date: 11/25/2024 11:53Analysis Batch Number: 124118 End Date: 11/25/2024 23:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 810-124067/3-A		11/25/2024 23:31	1		CPSelect 624 MS 0.25 (mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Eaton Analytical Sout Job No.: 810-129010-1

SDG No.: _____

Batch Number: 123437 Batch Start Date: 11/20/24 06:25 Batch Analyst: Miller, AnnaBatch Method: 522 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	522 IS SS 00219	522-Sur-SS 00116	O-522 CalM 00015	O-522-CalH 00012
IC 810-123437/4		522, 522			2 mL	2 mL	10 uL	10 uL		
IC 810-123437/5		522, 522			2 mL	2 mL	10 uL	10 uL		
IC 810-123437/6		522, 522			2 mL	2 mL	10 uL	10 uL		
IC 810-123437/7		522, 522			2 mL	2 mL	10 uL	10 uL	5 uL	
ICISAV 810-123437/8		522, 522			2 mL	2 mL	10 uL	10 uL	10 uL	
IC 810-123437/9		522, 522			2 mL	2 mL	10 uL	10 uL	20 uL	
IC 810-123437/10		522, 522			2 mL	2 mL	10 uL	10 uL		5 uL
IC 810-123437/11		522, 522			2 mL	2 mL	10 uL	10 uL		10 uL
IC 810-123437/12		522, 522			2 mL	2 mL	10 uL	10 uL		20 uL
ICV 810-123437/13		522, 522			2 mL	2 mL	10 uL	10 uL		

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	O-522-QCS-Sub 00007	O522-CalL 00016				
IC 810-123437/4		522, 522				7 uL				
IC 810-123437/5		522, 522				10 uL				
IC 810-123437/6		522, 522				20 uL				
IC 810-123437/7		522, 522								
ICISAV 810-123437/8		522, 522								
IC 810-123437/9		522, 522								
IC 810-123437/10		522, 522								
IC 810-123437/11		522, 522								
IC 810-123437/12		522, 522								
ICV 810-123437/13		522, 522			10 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Eaton Analytical Sout Job No.: 810-129010-1

SDG No.: _____

Batch Number: 123437 Batch Start Date: 11/20/24 06:25 Batch Analyst: Miller, AnnaBatch Method: 522 Batch End Date: _____

Batch Notes	
MeCL2 ID	1666096
Balance ID	B27
Balance is Level? (Y/N)	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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Eaton Analytical Sout Job No.: 810-129010-1

SDG No.: _____

Batch Number: 123541 Batch Start Date: 11/20/24 14:40 Batch Analyst: Orpurt, KylaBatch Method: 522 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	O-522BFBSUB 00015				
BFB 810-123541/1		522			2 mL	2 mL				
IC 810-123437/4-A		522			2 mL					
IC 810-123437/5-A		522			2 mL					
IC 810-123437/6-A		522			2 mL					
IC 810-123437/7-A		522			2 mL					
ICISAV 810-123437/8-A		522			2 mL					
IC 810-123437/9-A		522			2 mL					
IC 810-123437/10-A		522			2 mL					
IC 810-123437/11-A		522			2 mL					
IC 810-123437/12-A		522			2 mL					
ICV 810-123437/13-A		522			2 mL					

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Eaton Analytical Sout Job No.: 810-129010-1

SDG No.: _____

Batch Number: 124065Batch Start Date: 11/25/24 04:36Batch Analyst: Miller, AnnaBatch Method: 522

Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	522 IS SS 00220	522-Sur-SS 00117
MBL 810-124065/1		522, 522			100 g	0 g	100 mL	2 mL	10 uL	10 uL
LLCS 810-124065/2		522, 522			100 g	0 g	100 mL	2 mL	10 uL	10 uL
LCS 810-124065/3		522, 522			100 g	0 g	100 mL	2 mL	10 uL	10 uL
810-129010-A-4 MS	BPOW6-10-202411 19MS	522, 522	inking W&	T	100 g	0 g	100 mL	2 mL	10 uL	10 uL
810-129010-A-4 MSD	BPOW6-10-202411 19MSD	522, 522	inking W&	T	100 g	0 g	100 mL	2 mL	10 uL	10 uL
810-129010-A-1	BPOW6-11-202411 18	522, 522	inking W&	T	100 g	0 g	100 mL	2 mL	10 uL	10 uL
810-129010-A-2	BPOW6-7-202411 8	522, 522	inking W&	T	100 g	0 g	100 mL	2 mL	10 uL	10 uL
810-129010-A-3	DUP-01-202411 18	522, 522	inking W&	T	100 g	0 g	100 mL	2 mL	10 uL	10 uL
810-129010-A-4	BPOW6-10-202411 19	522, 522	inking W&	T	100 g	0 g	100 mL	2 mL	10 uL	10 uL
810-129010-A-5	BPOW6-9-202411 9	522, 522	inking W&	T	100 g	0 g	100 mL	2 mL	10 uL	10 uL
810-129010-A-6	FB-01-202411 19	522, 522	inking W&	T	100 g	0 g	100 mL	2 mL	10 uL	10 uL
810-129010-A-7	BPOW6-8-202411 9	522, 522	inking W&	T	100 g	0 g	100 mL	2 mL	10 uL	10 uL
810-129010-A-8	RB-01-202411 19	522, 522	inking W&	T	100 g	0 g	100 mL	2 mL	10 uL	10 uL
810-129010-A-9	DUP-02-202411 19	522, 522	inking W&	T	100 g	0 g	100 mL	2 mL	10 uL	10 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	O-522 CalM 00015	O522-CalL 00016	AnalysisCommen t			
MBL 810-124065/1		522, 522					Y1			
LLCS 810-124065/2		522, 522				7 uL	Y2			
LCS 810-124065/3		522, 522			10 uL		Y3			
810-129010-A-4 MS	BPOW6-10-202411 19MS	522, 522	inking W&	T	10 uL		Y4			
810-129010-A-4 MSD	BPOW6-10-202411 19MSD	522, 522	inking W&	T	10 uL		Y5			
810-129010-A-1	BPOW6-11-202411 18	522, 522	inking W&	T			Y6			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Eaton Analytical Sout Job No.: 810-129010-1

SDG No.: _____

Batch Number: 124065 Batch Start Date: 11/25/24 04:36 Batch Analyst: Miller, AnnaBatch Method: 522 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	O-522 CalM 00015	O522-CalL 00016	AnalysisCommen t			
810-129010-A-2	BPOW6-7-20241118	522, 522	inking W&	T			X1			
810-129010-A-3	DUP-01-20241118	522, 522	inking W&	T			X2			
810-129010-A-4	BPOW6-10-20241119	522, 522	inking W&	T			X3			
810-129010-A-5	BPOW6-9-20241119	522, 522	inking W&	T			X4			
810-129010-A-6	FB-01-20241119	522, 522	inking W&	T			X5			
810-129010-A-7	BPOW6-8-20241119	522, 522	inking W&	T			X6			
810-129010-A-8	RB-01-20241119	522, 522	inking W&	T			P1			
810-129010-A-9	DUP-02-20241119	522, 522	inking W&	T			P2			

Batch Notes	
MeCL2 ID	1666096
Methanol ID	1667220
SPE Cartridge Lot ID	1634759
Sodium Sulfite ID	1456825
Na2SO4 ID	1657492
Sodium Bisulfate ID	660717
Reagent Water ID	Micro Tap
Balance ID	B27
Balance is Level? (Y/N)	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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Eaton Analytical Sout Job No.: 810-129010-1

SDG No.: _____

Batch Number: 124067 Batch Start Date: 11/25/24 04:37 Batch Analyst: Miller, AnnaBatch Method: 522 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	522 IS SS 00220	522-Sur-SS 00117	O-522 CalM 00015	O-522-CalH 00012
CCVLIS 810-124067/1		522, 522			2 mL	2 mL	10 uL	10 uL		
CCVIS 810-124067/3		522, 522			2 mL	2 mL	10 uL	10 uL	10 uL	
CCV 810-124067/5		522, 522			2 mL	2 mL	10 uL	10 uL		10 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	O522-CalL 00016					
CCVLIS 810-124067/1		522, 522			7 uL					
CCVIS 810-124067/3		522, 522								
CCV 810-124067/5		522, 522								

Batch Notes	
MeCL2 ID	1666096
Balance ID	B27
Balance is Level? (Y/N)	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.

Shipping and Receiving Documents

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.

QUOTE NO.

COC Number

P4934/
2041988P4935

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Tetra Tech

ADDRESS: 4433 Corporation Lane Suite 300

CITY: Virginia Beach STATE: ZIP: 23462

ATTENTION: Ernie Wu

PHONE: 757 466 4901

FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWERP Bathpage

PROJECT NO. 112608005-WB13 LOCATION:

PROJECT MANAGER: Ernie Wu

e-mail: ernie.wu at tetratech.com

PHONE: 757 466 4901

FAX:

CLIENT BILLING INFORMATION

BILL TO: See Contract

PO#:

ADDRESS:

CITY

STATE:

ZIP:

ATTENTION:

PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) 72 Hours (3) DAYS*

HARDCOPY (DATA PACKAGE): DAYS*

EDD: DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT _____

1 VOC's \$260B
2 14-Dioxane \$270D
3 14-Dioxane EPA
4 522

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										COMMENTS
			COMP	GRAB	DATE	TIME		AE	E	EF							
1.	TB-01-20241118	A9		✓	11/18/24	12:00	2	2									Lab supplied Tetra Blank
2.	BPOW6-11-20241118	GW		✓	11/18/24	14:15	5	2	1	2							
3.	BPOW6-7-20241118	GW		✓	11/18/24	16:15	5	2	1	2							
4.	DUP-01-20241118	GW		✓	11/18/24	12:00	5	2	1	2							
5.	BPOW6-10-20241119	GW		✓	11/19/24	11:00	15	6	3	6							DO MS/MSD
6.	BPOW6-9-20241119	GW		✓	11/19/24	12:55	5	2	1	2							
7.	FB-01-20241119	GW		✓	11/19/24	13:30	5	2	1	2							
8.	BPOW6-8-20241119	GW		✓	11/19/24	15:05	5	2	1	2							
9.	RB-01-20241119	A9		✓	11/19/24	16:30	5	2	1	2							
10.	DUP-02-20241119	GW		✓	11/19/24	12:00	5	2	1	2							

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: 1100	RECEIVED BY:	1100	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP: 2.2 °C
1. Charles Meyer	11/20/24	1. [Signature]	11-20-24	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:		
2.		2.		
RELINQUISHED BY SAMPLER:	DATE/TIME: 1451	RECEIVED BY:		
3. [Signature]	11-20-24	3.		

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO



810-129010 Chain of Custody

CHAIN OF CUSTODY RECORD

Sub Lab INFORMATION		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION	
COMPANY :	Eurofins Eaton Analytical South Bend	ORDER ID :	P4935	BILL TO:	CHEMTECH PO# : P4935
ADDRESS :	110 South Bend	PROJECT ID:	CTO WE13	ADDRESS :	284, Sheffield Street
CITY:	South Bend State :IN ZIP :46617	PROJECT MANAGER	Yazmeen	CITY:	Mountainside State : NJ ZIP : 07092
E-mail :	Nathan.Trowbridge@et.eurofinsus.	E-mail :	YAZMEEN@CHEMTECH.NET	ATTENTION :	Yazmeen
PHONE :	574-233-4777	PHONE :	(908) 789 8900	PHONE :	(908) 789 8900
		FAX:	(908) 789 8922	FAX :	(908) 789 8922

EDD : ADAPT **Report :** Level 4+Level 2+RAW DATA **Comment : *DOD (REPORT TO THE LOD AND INCLUDE PRESENTATION FOR THE LOQ AND DL)**

ID	CLIENT IDENTIFICATION	SAMPLE MATRIX	ANALYSIS	Preservative	Method	SAMPLE COLLECTION		# OF BOTTLES	TAT DAYS
						DATE	TIME		
01	BPOW6-11-20241118	Water	1,4 Dioxane	1:1 HNO3 to pH < 2	522	11/18/2024	14:15:00	2	2
02	BPOW6-7-20241118	Water	1,4 Dioxane	1:1 HNO3 to pH < 2	522	11/18/2024	16:15:00	2	2
03	DUP-01-20241118	Water	1,4 Dioxane	1:1 HNO3 to pH < 2	522	11/18/2024	12:00:00	2	2
04	BPOW6-10-20241119	Water	1,4 Dioxane	1:1 HNO3 to pH < 2	522	11/19/2024	11:00:00	2	2
05	BPOW6-10-20241119MS	Water	1,4 Dioxane	1:1 HNO3 to pH < 2	522	11/19/2024	11:00:00	2	2
06	BPOW6-10-20241119MSD	Water	1,4 Dioxane	1:1 HNO3 to pH < 2	522	11/19/2024	11:00:00	2	2
07	BPOW6-9-20241119	Water	1,4 Dioxane	1:1 HNO3 to pH < 2	522	11/19/2024	12:55:00	2	2
08	FB-01-20241119	Water	1,4 Dioxane	1:1 HNO3 to pH < 2	522	11/19/2024	13:30:00	2	2
09	BPOW6-8-20241119	Water	1,4 Dioxane	1:1 HNO3 to pH < 2	522	11/19/2024	15:05:00	2	2

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGES POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATETIME:	RECEIVED BY:	DATETIME:	Conditions of bottles or Coolers at receipt:	Compliant	Non Compliant	Cooler Temp
1.	11-20-24	1.	11-20-24	Initial Temp: 1.6 Corrected Temp: 1.4 IR Gun # 25067	☐	☐	Ice or Cooler?
2.	11/21/24 0930	2.	11/21/24 0930		☐	☐	
3.		3.			☐	☐	

Shipment Complete:
☐ OVERNIGHT
☐ OVERNIGHT
☐ YES ☐ NO



284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
WWW.CHEMTECH.NET

CHAIN OF CUSTODY RECORD

Sub Lab INFORMATION		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION	
COMPANY :	Eurofins Eaton Analytical South Bend	ORDER ID :	P4935	BILL TO:	CHEMTECH PO# : P4935
ADDRESS :	110 South Bend	PROJECT ID:	CTO WE13	ADDRESS :	284, Sheffield Street
CITY:	South Bend State :IN ZIP :46617	PROJECT MANAGER	Yazmeen	CITY:	Mountainside State : NJ ZIP : 07092
E-mail :	Nathan.Trowbridge@et.eurofinsus.	E-mail :	YAZMEEN@CHEMTECH.NET	ATTENTION :	Yazmeen
PHONE :	574-233-477 _	PHONE :	(908) 789 8900	FAX :	(908) 789 8922

EDD : ADAPT	Report : Level 4	Comment :
-------------	------------------	-----------

ID	CLIENT SAMPLE IDENTIFICATION	SAMPLE MATRIX	ANALYSIS	Preservative	Method	SAMPLE COLLECTION DATE	TIME	# OF BOTTLES	TAT DAYS
10	RB-01-20241119	Water	Wet Chem Group1	1:1 HNO3 to pH < 2	Cal	11/19/2024	16:30:00	2	2
11	DUP-02-20241119	Water	Wet Chem Group1	1:1 HNO3 to pH < 2	Cal	11/19/2024	12:00:00	2	2

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGES POSSESSION INCLUDING COURIER DELIVERY			
RELINQUISHED BY SAMPLER:	DATETIME: 11-20-24	RECEIVED BY:	Conditions of bottles or Coolers at receipt:
1.	11-20-24	1.	☐ Compliant ☐ Non Compliant Cooler Temp
RELINQUISHED BY:	DATETIME: 11/21/24	RECEIVED BY:	Ice or Cooler?
2.	11/21/24	2.	
RELINQUISHED BY:	DATETIME:	RECEIVED BY:	
3.		3.	
Page 2 of 2			Shipment Complete: ☐ OVERNIGHT ☐ OVERNIGHT ☐ YES ☐ NO

Login Sample Receipt Checklist

Client: Chemtech Consulting Group Inc.

Job Number: 810-129010-1

Login Number: 129010

List Number: 1

Creator: Williams, Kameron

List Source: Eurofins Eaton Analytical South Bend

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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	
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	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	