

DATA PACKAGE

SUB DATA

PROJECT NAME : NWIRP BETHPAGE 112G08005-WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : Q3299

ATTENTION : Ernie Wu



Cover Page

Order ID : Q3299

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q3299-01

Client Sample Number

VPB184-HYD-20251003

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 :

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 1:42 pm, Oct 13, 2025

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 10/13/2025 8:10 AM

JOB DESCRIPTION

1,4 Dioxane

JOB NUMBER

810-167031-1

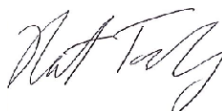
Eurofins Eaton Analytical South Bend

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
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Definitions/Glossary

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

Job ID: 810-167031-1

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
810-167031-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The sample was received on 10/8/2025 10:15 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°C.

GC/MS Semi VOA

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: 810-167031-1

Client Sample ID: VPB184-HYD-20251003

Lab Sample ID: 810-167031-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,4-Dioxane	0.084		0.070	0.062	ug/L		1		522	Total/NA

Client Sample Results

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

Job ID: 810-167031-1

Client Sample ID: VPB184-HYD-20251003

Lab Sample ID: 810-167031-1

Date Collected: 10/03/25 12:00

Matrix: Drinking Water

Date Received: 10/08/25 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.084		0.070	0.062	ug/L		10/09/25 09:10	10/09/25 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	85		70 - 130	10/09/25 09:10	10/09/25 15:52	1

Default Detection Limits

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

Job ID: 810-167031-1

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

Prep: 522

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

Surrogate Summary

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

Job ID: 810-167031-1

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)							
810-167031-1	VPB184-HYD-20251003	85							
LCS 810-163879/3-A	Lab Control Sample	86							
LLCS 810-163879/2-A	Lab Control Sample	83							
MBL 810-163879/1-A	Method Blank	84							

Surrogate Legend

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

QC Sample Results

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

Job ID: 810-167031-1

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

Lab Sample ID: MBL 810-163879/1-A
Matrix: Drinking Water
Analysis Batch: 163931

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 163879

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.062		0.070	0.062	ug/L		10/09/25 09:10	10/09/25 14:36	1
Surrogate	MBL %Recovery	MBL Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	84		70 - 130				10/09/25 09:10	10/09/25 14:36	1

Lab Sample ID: LCS 810-163879/3-A
Matrix: Drinking Water
Analysis Batch: 163931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 163879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	50.0	45.7		ug/L		91	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	86		70 - 130				

Lab Sample ID: LLCS 810-163879/2-A
Matrix: Drinking Water
Analysis Batch: 163931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 163879

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	0.0700	0.0798		ug/L		114	50 - 150
Surrogate	LLCS %Recovery	LLCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	83		70 - 130				

QC Association Summary

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

Job ID: 810-167031-1

GC/MS Semi VOA

Prep Batch: 163879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-167031-1	VPB184-HYD-20251003	Total/NA	Drinking Water	522	
MBL 810-163879/1-A	Method Blank	Total/NA	Drinking Water	522	
LCS 810-163879/3-A	Lab Control Sample	Total/NA	Drinking Water	522	
LLCS 810-163879/2-A	Lab Control Sample	Total/NA	Drinking Water	522	

Analysis Batch: 163931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-167031-1	VPB184-HYD-20251003	Total/NA	Drinking Water	522	163879
MBL 810-163879/1-A	Method Blank	Total/NA	Drinking Water	522	163879
LCS 810-163879/3-A	Lab Control Sample	Total/NA	Drinking Water	522	163879
LLCS 810-163879/2-A	Lab Control Sample	Total/NA	Drinking Water	522	163879

Lab Chronicle

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

Job ID: 810-167031-1

Client Sample ID: VPB184-HYD-20251003

Lab Sample ID: 810-167031-1

Date Collected: 10/03/25 12:00

Matrix: Drinking Water

Date Received: 10/08/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	522			163879	BAB	EA SB	10/09/25 09:10
Total/NA	Analysis	522		1	163931	KO	EA SB	10/09/25 15:52

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: 810-167031-1

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	06-30-26
Alaska	State	IN00035	06-30-26
Arizona	State	AZ0432	07-26-26
Arkansas (DW)	State	EPA IN00035	06-30-26
California	State	2920	06-30-26
Colorado	State	IN00035	02-28-26
Connecticut	State	PH-0132	03-31-26
Delaware (DW)	State	IN00035	06-30-26
Florida	NELAP	E87775	06-30-26
Georgia (DW)	State	929	06-30-26
Guam	State	24-012R	07-15-26
Hawaii	State	IN035	06-30-26
Idaho (DW)	State	IN00035	12-31-25
IL Dept. of Public Health (Micro)	State	17767	06-30-26
Illinois	NELAP	200001	09-30-26
Indiana	State	C-71-01	12-31-25
Indiana (Micro)	State	M-76-07	12-31-25
Iowa	State	098	11-01-25
Kansas	NELAP	E-10233	10-31-25
Kentucky (DW)	State	KY90056	12-31-25
Louisiana (DW)	State	LA014	12-31-25
Maine	State	IN00035	05-01-27
Maryland	State	209	06-30-26
Massachusetts	State	M-IN035	06-30-26
MI - RadChem Recognition	State	9926	06-30-26
Michigan	State	9926	12-31-25
Minnesota	NELAP	018-999-338	12-31-25
Mississippi	State	IN00035	06-30-26
Missouri	State	880	09-30-27
Montana (DW)	State	CERT0026	01-01-26
Nebraska	State	NE-OS-05-04	06-30-26
Nevada	State	NV-C24-00276	07-31-26
New Hampshire	NELAP	2124	11-05-25
New Jersey	NELAP	IN598	06-30-26
New Mexico	State	IN00035	06-30-26
New York	NELAP	11398	04-01-26

Eurofins Eaton Analytical South Bend

Accreditation/Certification Summary

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

Job ID: 810-167031-1

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	07-31-26
North Dakota	State	R-035	06-30-26
Northern Mariana Islands (DW)	State	IN00035	06-30-26
Ohio	State	87775	06-30-26
Oklahoma	NELAP	D9508	12-31-25
Oregon	NELAP	4156	09-16-26
Pennsylvania	NELAP	68-00466	04-30-26
Puerto Rico	State	IN00035	04-01-26
Rhode Island	State	LAO00343	12-31-25
South Carolina	State	95005001	06-30-26
South Dakota (DW)	State	IN00035	12-31-25
Tennessee	State	TN02973	06-30-26
Texas	NELAP	T104704187	12-31-25
Texas	TCEQ Water Supply	TX207	06-30-26
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25
Utah	NELAP	IN00035	07-31-26
Vermont	State	VT-8775	12-28-25
Virginia	NELAP	460275	03-14-26
Washington	State	C837	01-01-26
West Virginia (DW)	State	9927 C	01-31-26
Wisconsin	State	999766900	08-31-26
Wisconsin (Micro)	State	10121	12-31-25
Wyoming	State	8TMS-L	06-30-26

Method Summary

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

Job ID: 810-167031-1

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: 810-167031-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
810-167031-1	VPB184-HYD-20251003	Drinking Water	10/03/25 12:00	10/08/25 10:15	New Jersey

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Eaton Analytical South BendJob No.: 810-167031-1

SDG No.: _____

Instrument ID: GCMS-DMAnalysis Batch Number: 161928Lab Sample ID: IC 810-161845/4-A

Client Sample ID: _____

Date Analyzed: 09/26/25 08:48Lab File ID: IC1.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.04	Baseline	JH8B	09/26/25 09:56

Lab Sample ID: IC 810-161845/5-A

Client Sample ID: _____

Date Analyzed: 09/26/25 09:14Lab File ID: IC2.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.04	Baseline	JH8B	09/26/25 09:56

Lab Sample ID: IC 810-161845/6-A

Client Sample ID: _____

Date Analyzed: 09/26/25 09:39Lab File ID: IC3.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.04	Baseline	JH8B	09/26/25 09:59

Lab Sample ID: IC 810-161845/7-A

Client Sample ID: _____

Date Analyzed: 09/26/25 10:04Lab File ID: IC4.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.04	Baseline	JH8B	09/26/25 14:57

Lab Sample ID: IC 810-161845/8-A

Client Sample ID: _____

Date Analyzed: 09/26/25 10:29Lab File ID: IC5.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.04	Baseline	JH8B	09/26/25 14:57

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Eaton Analytical South BendJob No.: 810-167031-1

SDG No.: _____

Instrument ID: GCMS-DMAnalysis Batch Number: 161928Lab Sample ID: IC 810-161845/9-A

Client Sample ID: _____

Date Analyzed: 09/26/25 10:54Lab File ID: IC6.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.02	Baseline	JH8B	09/26/25 14:57

Lab Sample ID: ICISAV 810-161845/10-A

Client Sample ID: _____

Date Analyzed: 09/26/25 11:19Lab File ID: IC7.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.02	Baseline	JH8B	09/26/25 14:56

Lab Sample ID: IC 810-161845/11-A

Client Sample ID: _____

Date Analyzed: 09/26/25 11:44Lab File ID: IC8.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.02	Baseline	JH8B	09/26/25 14:56

Lab Sample ID: IC 810-161845/12-A

Client Sample ID: _____

Date Analyzed: 09/26/25 12:09Lab File ID: IC9.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.04	Baseline	JH8B	09/26/25 13:55

Lab Sample ID: IC 810-161845/13-A

Client Sample ID: _____

Date Analyzed: 09/26/25 12:34Lab File ID: IC10.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.02	Baseline	JH8B	09/26/25 13:55

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-167031-1
SDG No.: _____
Instrument ID: GCMS-DM Analysis Batch Number: 161928
Lab Sample ID: IC 810-161845/14-A Client Sample ID: _____
Date Analyzed: 09/26/25 12:59 Lab File ID: IC11.D GC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Baseline	JH8B	09/26/25 14:55

Lab Sample ID: ICV 810-161845/15-A Client Sample ID: _____
Date Analyzed: 09/26/25 13:49 Lab File ID: ICV.D GC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.04	Baseline	JH8B	09/26/25 14:55

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Eaton Analytical South BendJob No.: 810-167031-1

SDG No.: _____

Instrument ID: GCMS-DMAnalysis Batch Number: 163931Lab Sample ID: CCVLIS 810-163891/1-A

Client Sample ID: _____

Date Analyzed: 10/09/25 13:46Lab File ID: CCVL1.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Baseline	JH8B	10/10/25 08:22

Lab Sample ID: MBL 810-163879/1-A

Client Sample ID: _____

Date Analyzed: 10/09/25 14:36Lab File ID: MB1.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane		Invalid Compound ID	JH8B	10/10/25 08:23

Lab Sample ID: LLCS 810-163879/2-A

Client Sample ID: _____

Date Analyzed: 10/09/25 15:02Lab File ID: LLCS1.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Baseline	JH8B	10/10/25 08:24

Lab Sample ID: 810-167031-1Client Sample ID: VPB184-HYD-20251003Date Analyzed: 10/09/25 15:52Lab File ID: 810-167031-A-1-A.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Baseline	JH8B	10/10/25 08:24

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-167031-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
522 IS SS 00259	10/10/25	09/25/25	MeCl2, Lot EJ007-US	2 mL	522-IS-Stock_00012	200 uL	Tetrahydrofuran-d8	100 ug/mL
.522-IS-Stock_00012	05/14/30		Absolute Standards Inc., Lot 051425		(Purchased Reagent)		Tetrahydrofuran-d8	1000 ug/mL
522 IS SS 00261	10/21/25	10/07/25	MeCl2, Lot EJ007-US	2 mL	522-IS-Stock_00013	200 uL	Tetrahydrofuran-d8	100 ug/mL
.522-IS-Stock_00013	05/14/30		Absolute Standards Inc., Lot 051425		(Purchased Reagent)		Tetrahydrofuran-d8	1000 ug/mL
522-Sur-SS_00152	03/17/26	09/17/25	Methanol, Lot 24G0262002	2 mL	522-SUR-Stock_00024	100 uL	1,4-Dioxane-d8 (Surr)	100 ug/mL
.522-SUR-Stock_00024	12/31/26	09/17/25		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_00153	03/24/26	09/24/25	Methanol, Lot 24G0262002	2 mL	522-SUR-Stock_00026	100 uL	1,4-Dioxane-d8 (Surr)	100 ug/mL
.522-SUR-Stock_00026	08/31/28	09/24/25		1 mL	522-SUR-Stock_00025	1 mL	1,4-Dioxane-d8 (Surr)	2000 ug/mL
..522-SUR-Stock_00025	08/31/28		Restek, Lot A0229311		(Purchased Reagent)		1,4-Dioxane-d8 (Surr)	2000 ug/mL
O-522-CalH_00026	01/31/26	09/06/25	Methanol, Lot 23I0762004	2 mL	522 AnalyteST_00004	100 uL	1,4-Dioxane	100 ug/mL
.522 AnalyteST_00004	05/31/26	06/17/25	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_00027	02/28/26	10/01/25	Methanol, Lot 23I0762004	2 mL	522 AnalyteST_00004	100 uL	1,4-Dioxane	100 ug/mL
.522 AnalyteST_00004	05/31/26	06/17/25	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_00012	03/02/26	09/02/25	Methanol, Lot 24G0262002	2 mL	522-QCS_00007	200 uL	1,4-Dioxane	100 ug/mL
.522-QCS_00007	10/21/32	07/29/25	Methanol, Lot NA	1 mL	522-QCS_00003	1 mL	1,4-Dioxane	1000 ug/mL
..522-QCS_00003	10/21/32		AccuStandard, Lot 222101299		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
O522-CalL_00026	01/31/26	08/29/25	Methanol, Lot 23I0762004	2 mL	O-522-CalH_00024	20 uL	1,4-Dioxane	1 ug/mL
.O-522-CalH_00024	01/31/26	08/18/25	Methanol, Lot 23I0762004	2 mL	522 AnalyteST_00004	100 uL	1,4-Dioxane	100 ug/mL
..522 AnalyteST_00004	05/31/26	06/17/25	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
O522-CalL_00027	02/28/26	10/03/25	Methanol, Lot 24G0262002	2 mL	O-522-CalH_00027	20 uL	1,4-Dioxane	1 ug/mL
.O-522-CalH_00027	02/28/26	10/01/25	Methanol, Lot 23I0762004	2 mL	522 AnalyteST_00004	100 uL	1,4-Dioxane	100 ug/mL
..522 AnalyteST_00004	05/31/26	06/17/25	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



Rec'd: 12/14/2021 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. : 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:

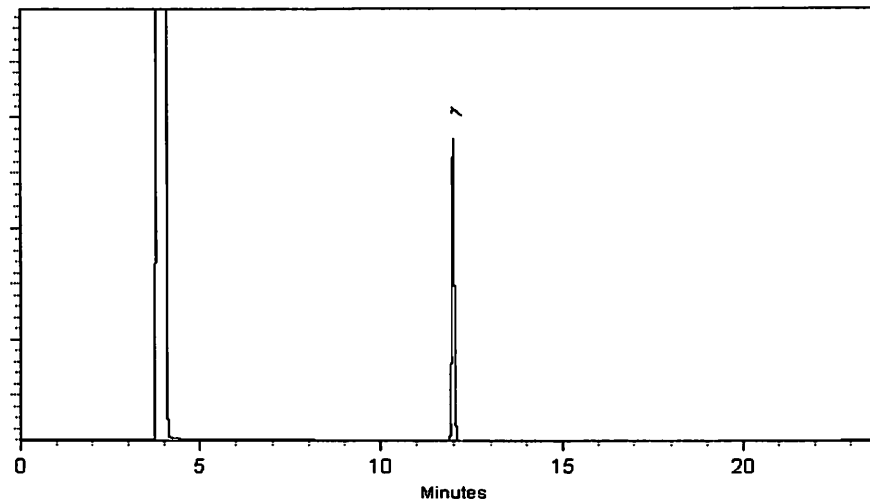
200°C

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/ 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 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-QCS_00003



CERTIFICATE OF ANALYSIS

Catalog No: APP-9-096-10X

Description: p-Dioxane

Lot: 222101299

Solvent: Methanol

Hazards: Refer to SDS for complete safety information

Date Certified: Oct 21, 2022

Expiration: Oct 21, 2032

Sample Size: 1 mL

Components: 1

Storage Condition: Ambient (>5 °C)



Signal Word: Danger

Certified Reference Material



Component	CAS #	Purity ³ %	Prepared Concentration ² (µg/mL)	Certified Analyte Concentration ¹ (µg/mL)
p-Dioxane	123-91-1	100.0	1005	1005

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

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

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

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

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

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

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

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

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

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

Certified By:

Larry Decker, Organic QC Manager

1. Quality Standards:

ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers

ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories

ISO 9001:2015 – Quality Management System – Requirements
Eagle Registrations

- 2. Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.
- 3. Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.
- 4. Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.
- 5. Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label
- 6. Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(V))^2 + (u(m))^2 + (u(TV))^2 + (u(RO))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of $k=2$ is chosen using approximately a 95% confidence level.
- 7. Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

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:

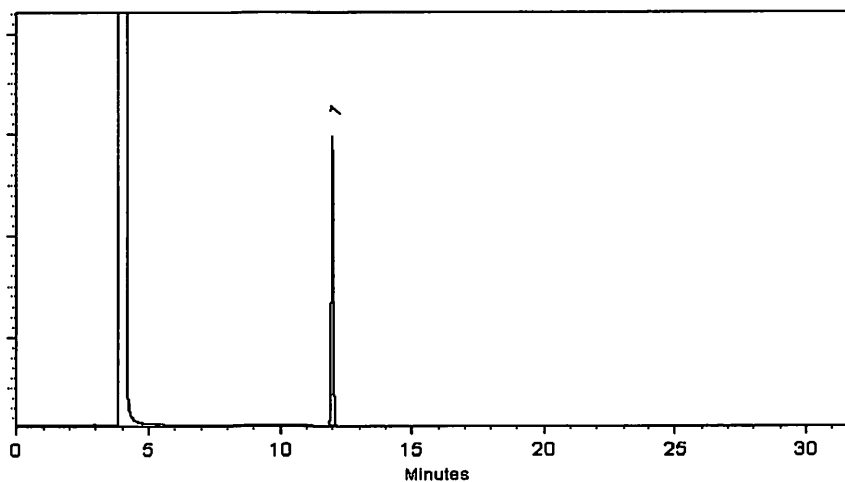
FID

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.

Wilner Torres
Wilner Torres - Operation Tech I

Date Mixed: 29-Dec-2023

Balance Serial # 1128342314

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

Certified Uncertainty Value Notes:

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

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

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

522-SUR-Stock_00025



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30614 Lot No.: A0229311
Description : 1,4-dioxane-d8 Standard
1,4-dioxane-d8 Standard 2,000 µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : August 31, 2028 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane-d8	17647-74-4	RP240917A	99%	2,008.5 µg/mL	+/- 24.9961

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

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

Quality Confirmation Test

Column:

05m x 0.53mm x 3.0µm

LX-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

10°C (hold 2 min.) to 240°C

@ 8°C/min. (hold 5 min.)

Inj. Temp:

100°C

Det. Temp:

50°C

Det. Type:

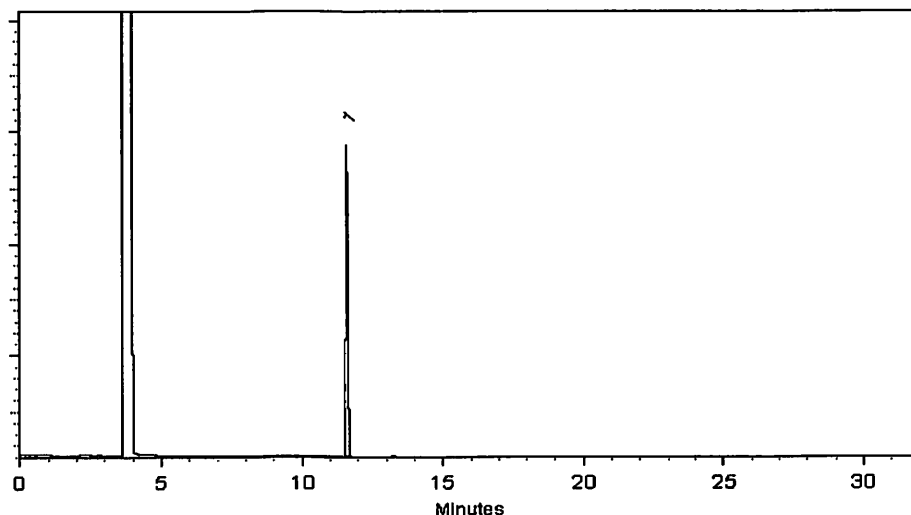
FID

Split Vent:

10 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.

Aaron Enyart
Aaron Enyart - Operations Tech I

Date Mixed: 26-Aug-2025

Balance Serial # B251644995

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 28-Aug-2025

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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.

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.: 810-167031-1

SDG No.: _____

Matrix: Drinking Water Level: Low

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

Client Sample ID	Lab Sample ID	DXE #
VPB184-HYD-20251003	810-167031-1	85
	LCS 810-163879/3-A	86
	LLCS 810-163879/2-A	83
	MBL 810-163879/1-A	84

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.: 810-167031-1
Bend

SDG No.:

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

Lab ID: LCS 810-163879/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	50.0	45.7	91	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.: 810-167031-1
Bend

SDG No.:

Matrix: Drinking Water Level: Low Lab File ID: LLCS1.D

Lab ID: LLCS 810-163879/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LLCS CONCENTRATION (ug/L)	LLCS % REC	QC LIMITS REC	#
1,4-Dioxane	0.0700	0.0798	114	50-150	

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.: 810-167031-1
SDG No.:
Lab File ID: MBL.D
Lab Sample ID: MBL 810-163879/1-A
Matrix: Drinking Water
Date Extracted: 10/09/2025 09:10
Instrument ID: GCMS-DM
Date Analyzed: 10/09/2025 14:36
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LLCS 810-163879/2-A	LLCS1.D	10/09/2025 15:02
	LCS 810-163879/3-A	LCS.D	10/09/2025 15:26
VPB184-HYD-20251003	810-167031-1	810-167031-A-1-A.D	10/09/2025 15:52

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

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-167031-1
SDG No.: _____
Instrument ID: GCMS-DM Calibration Start Date: 09/26/2025 08:48
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calibration End Date: 09/26/2025 12:59
Calibration ID: 17690

	THFd8					
	AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT	89423	5.85				
UPPER LIMIT	134135	6.36				
LOWER LIMIT	44712	5.36				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 810-161845/15-A		85811	5.85			
CCVLIS 810-163891/1-A		85582	5.85			
MBL 810-163879/1-A		93427	5.84			
LLCS 810-163879/2-A		98529	5.85			
LCS 810-163879/3-A		93938	5.85			
810-167031-1	VPB184-HYD-20251003	92250	5.85			
CCVIS 810-163891/2-A		92054	5.85			

THFd8 = Tetrahydrofuran-d8

Area Limit = 50%-150% of internal standard area
RT Limit = $\pm$ 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 Bend Job No.: 810-167031-1
SDG No.: _____
Sample No.: CCVLIS 810-163891/1-A Date Analyzed: 10/09/2025 13:46
Instrument ID: GCMS-DM GC Column: CPSelect 624 MS ID: 0.25 (mm)
Lab File ID (Standard): CCVL1.D Heated Purge: (Y/N) N
Calibration ID: 17690

		THFd8					
		AREA #	RT #	#	RT #	#	RT #
Low Level 12/24 HOUR STD		85582	5.85				
UPPER LIMIT		111257	6.35				
LOWER LIMIT		59907	5.35				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MBL 810-163879/1-A		93427	5.84				
LLCS 810-163879/2-A		98529	5.85				
LCS 810-163879/3-A		93938	5.85				
810-167031-1	VPB184-HYD-20251003	92250	5.85				
CCVIS 810-163891/2-A		92054	5.85				

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.: 810-167031-1
SDG No.:	
Client Sample ID: VPB184-HYD-20251003	Lab Sample ID: 810-167031-1
Matrix: Drinking Water	Lab File ID: 810-167031-A-1-A.D
Analysis Method: 522	Date Collected: 10/03/2025 12:00
Extract. Method: 522	Date Extracted: 10/09/2025 09:10
Sample wt/vol: 100 (mL)	Date Analyzed: 10/09/2025 15:52
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.: 163931	Units: ug/L
Preparation Batch No.: 163879	Instrument ID: GCMS-DM

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.084		0.070	0.062

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-DM\20251009-42369.b\810-167031-A-1-A.D
Lims ID: 810-167031-A-1-A
Client ID: VPB184-HYD-20251003
Sample Type: Client
Inject. Date: 09-Oct-2025 15:52:17 ALS Bottle#: 35 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0042369-005
Misc. Info.: 810-167031-A-1-A
Operator ID: TD Instrument ID: GCMS-DM
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\522_GCMS-DM.m
Limit Group: MSS - 522
Last Update: 10-Oct-2025 08:30:14 Calib Date: 26-Sep-2025 12:59:32
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1605

First Level Reviewer: JH8B

Date: 10-Oct-2025 08:25:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	5.847	5.854	-0.007	26	92250	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	7.952	7.952	0.000	0	60271	424.9	
11 1,4-Dioxane	88	8.025	8.025	0.001	81	581	4.21	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

O-522BFBSUB_00029

Amount Added: 1.00

Units: mL

Run Reagent

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\810-167031-A-1-A.D

Injection Date: 09-Oct-2025 15:52:17

Instrument ID: GCMS-DM

Lims ID: 810-167031-A-1-A

Lab Sample ID: 810-167031-1

Client ID: VPB184-HYD-20251003

Operator ID: TD

ALS Bottle#: 35

Worklist Smp#: 5

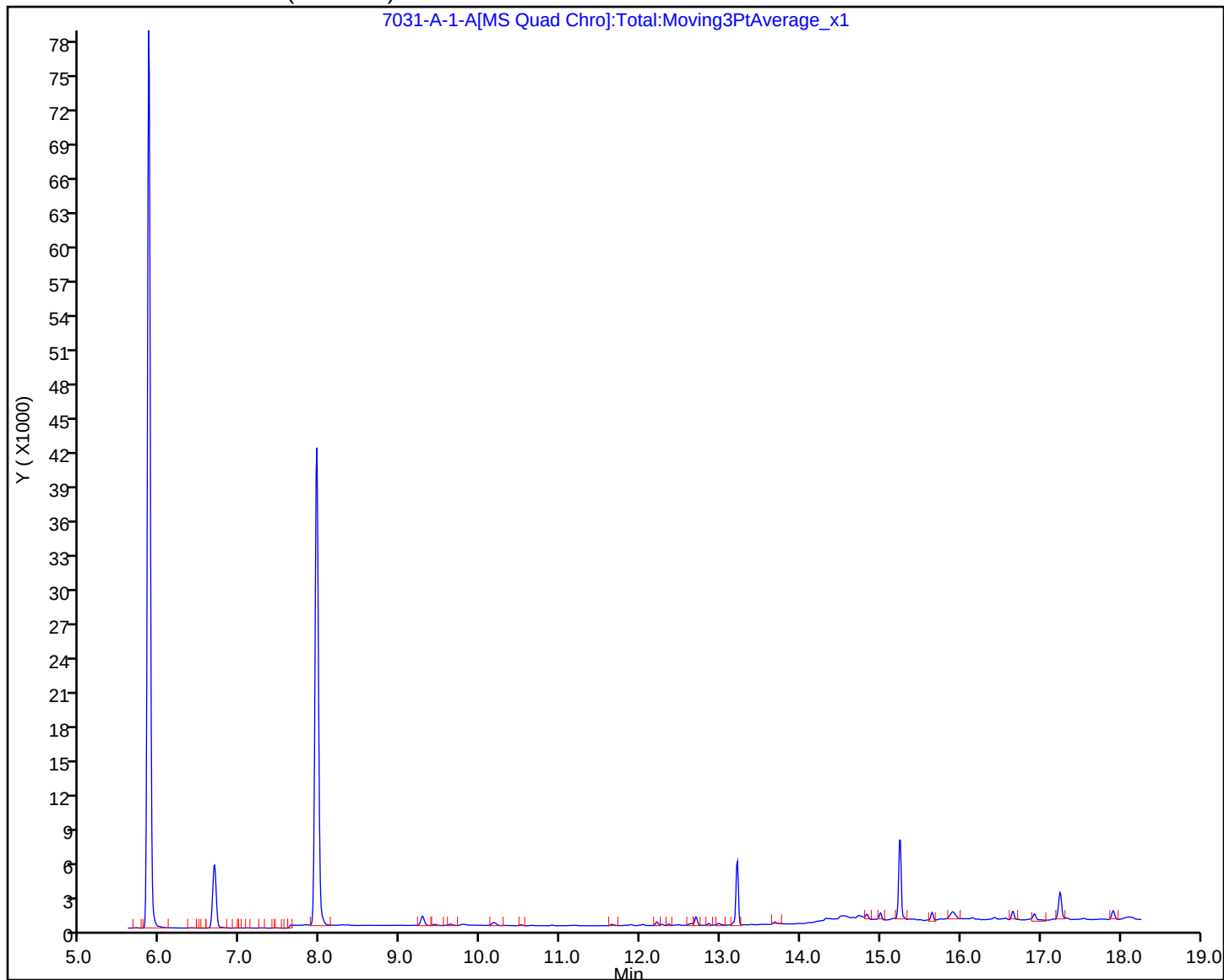
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-DM

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-DM\20251009-42369.b\810-167031-A-1-A.D
Lims ID: 810-167031-A-1-A
Client ID: VPB184-HYD-20251003
Sample Type: Client
Inject. Date: 09-Oct-2025 15:52:17 ALS Bottle#: 35 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0042369-005
Misc. Info.: 810-167031-A-1-A
Operator ID: TD Instrument ID: GCMS-DM
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\522_GCMS-DM.m
Limit Group: MSS - 522
Last Update: 10-Oct-2025 08:30:14 Calib Date: 26-Sep-2025 12:59:32
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1605

First Level Reviewer: JH8B

Date: 10-Oct-2025 08:25:09

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	424.9	84.98

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\810-167031-A-1-A.D

Injection Date: 09-Oct-2025 15:52:17

Instrument ID: GCMS-DM

Lims ID: 810-167031-A-1-A

Lab Sample ID: 810-167031-1

Client ID: VPB184-HYD-20251003

Operator ID: TD

ALS Bottle#: 35

Worklist Smp#: 5

Injection Vol: 1.0 ul

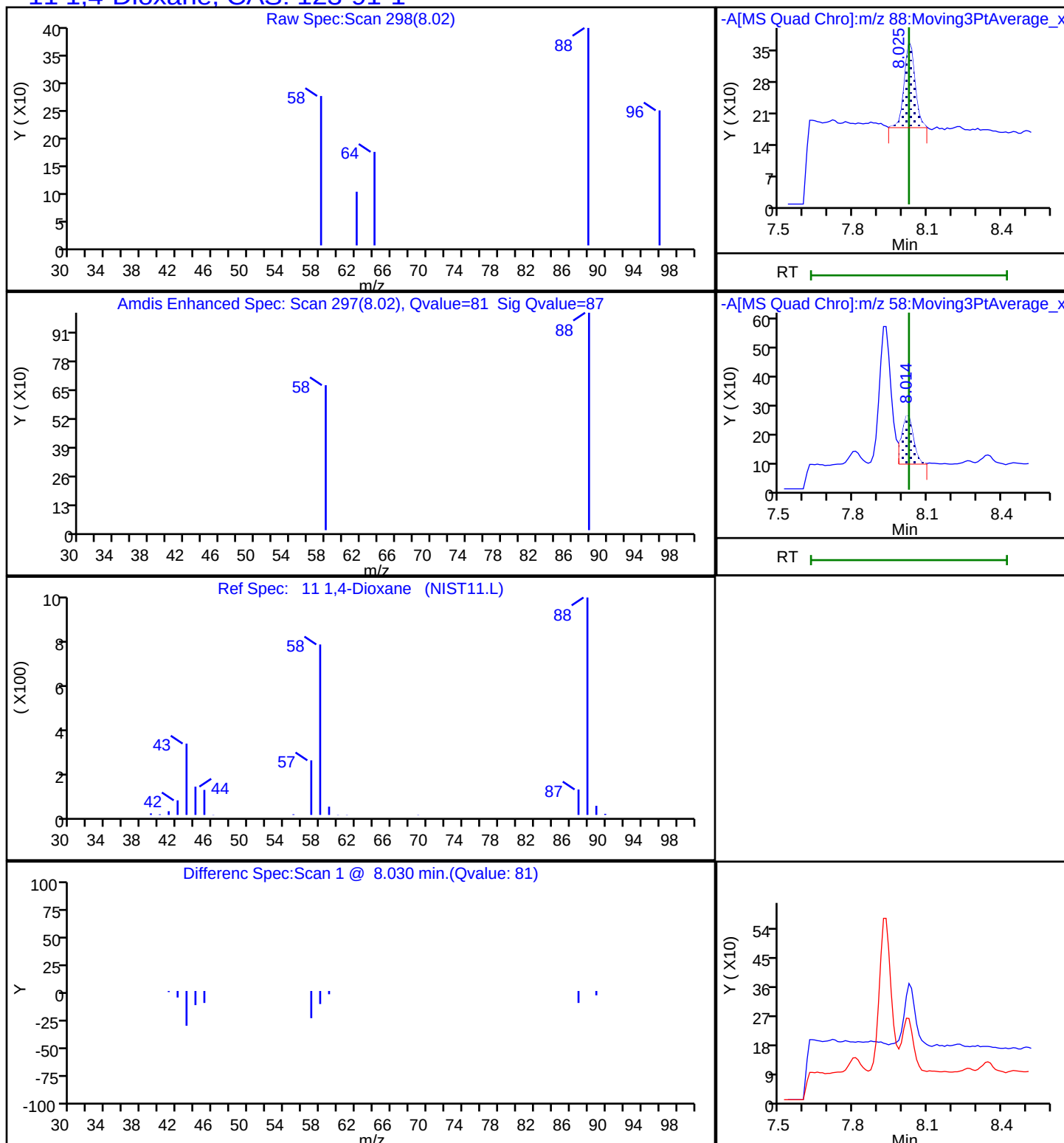
Dil. Factor: 1.0000

Method: 522_GCMS-DM

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

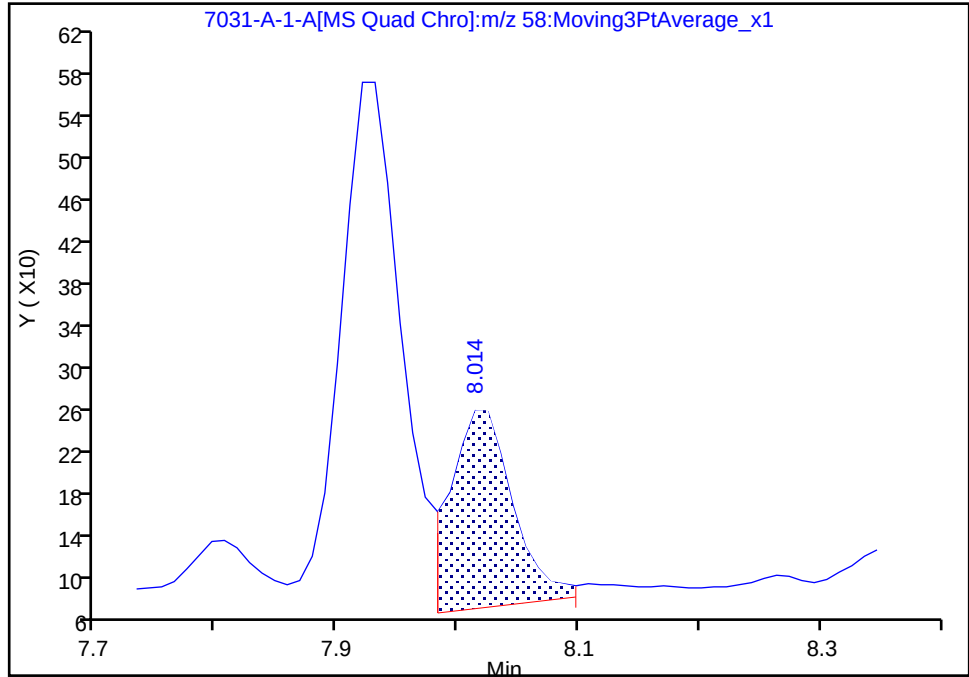
Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\810-167031-A-1-A.D
Injection Date: 09-Oct-2025 15:52:17 Instrument ID: GCMS-DM
Lims ID: 810-167031-A-1-A Lab Sample ID: 810-167031-1
Client ID: VPB184-HYD-20251003
Operator ID: TD ALS Bottle#: 35 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-DM 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

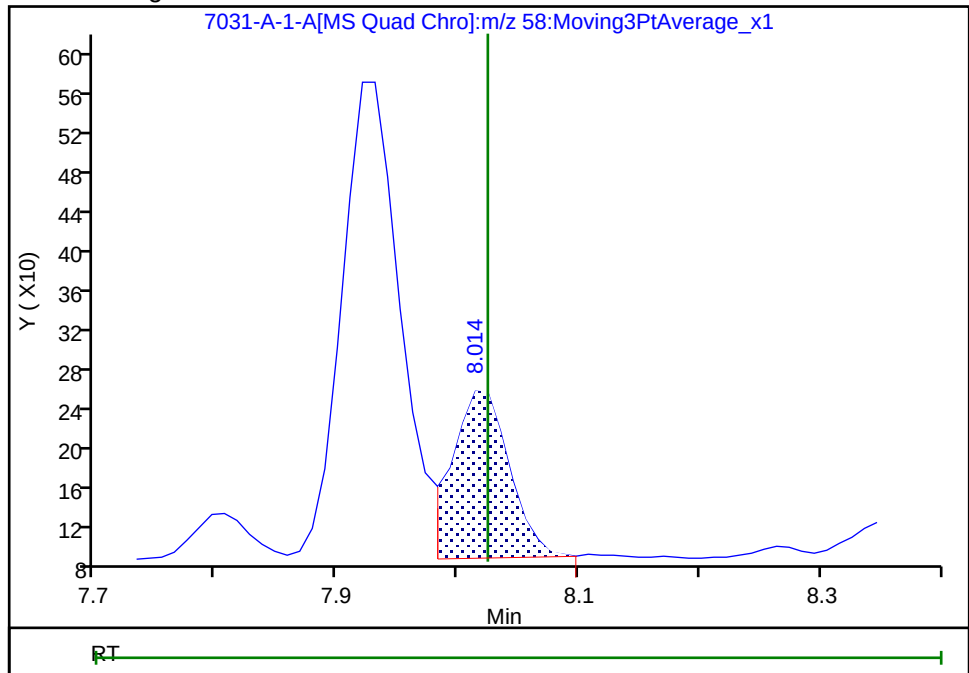
RT: 8.01
Area: 691
Amount: 9.547733
Amount Units: ug/l

Processing Integration Results



RT: 8.01
Area: 564
Amount: 4.211559
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 10-Oct-2025 08:25:03 -04:00:00 (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.: 810-167031-1 Analy Batch No.: 161928
Bend

SDG No.:

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

Calibration Start Date: 09/26/2025 08:48 Calibration End Date: 09/26/2025 12:59 Calibration ID: 17690

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 810-161845/4-A	IC1.D
Level 2	IC 810-161845/5-A	IC2.D
Level 3	IC 810-161845/6-A	IC3.D
Level 4	IC 810-161845/7-A	IC4.D
Level 5	IC 810-161845/8-A	IC5.D
Level 6	IC 810-161845/9-A	IC6.D
Level 7	ICISAV 810-161845/10-A	IC7.D
Level 8	IC 810-161845/11-A	IC8.D
Level 9	IC 810-161845/12-A	IC9.D
Level 10	IC 810-161845/13-A	IC10.D
Level 11	IC 810-161845/14-A	IC11.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,4-Dioxane	0.8386 0.7760 0.7994	0.8407 0.6930	0.7599 0.8274	0.7385 0.7894	0.7534 0.7909	Lin1	-0.19 6	0.794 3				7.6					
1,4-Dioxane-d8 (Surr)	0.7981 0.7914 0.7362	0.7942 0.6886	0.7931 0.7720	0.7833 0.7576	0.7751 0.7676	Ave		0.768 8				4.2		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.: 810-167031-1 Analy Batch No.: 161928

SDG No.:

Instrument ID: GCMS-DM GC Column: CPSelect 6 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/26/2025 08:48 Calibration End Date: 09/26/2025 12:59 Calibration ID: 17690

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 810-161845/4-A	IC1.D
Level 2	IC 810-161845/5-A	IC2.D
Level 3	IC 810-161845/6-A	IC3.D
Level 4	IC 810-161845/7-A	IC4.D
Level 5	IC 810-161845/8-A	IC5.D
Level 6	IC 810-161845/9-A	IC6.D
Level 7	ICISAV 810-161845/10-A	IC7.D
Level 8	IC 810-161845/11-A	IC8.D
Level 9	IC 810-161845/12-A	IC9.D
Level 10	IC 810-161845/13-A	IC10.D
Level 11	IC 810-161845/14-A	IC11.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,4-Dioxane	THFd8	Lin1	528	750	1402	3458	6716	3.50	5.00	10.0	25.0	50.0
			14263	29326	72966	142798	336772	100	250	500	1000	2500
			712323					5000				
1,4-Dioxane-d8 (Surr)	THFd8	Ave	71785	70851	73163	73352	69097	500	500	500	500	500
			72736	58280	68080	68519	65373	500	500	500	500	500
			65600					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.: 810-167031-1 Analy Batch No.: 161928
SDG No.: _____
Instrument ID: GCMS-DM GC Column: CPSelect 62 ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 09/26/2025 08:48 Calibration End Date: 09/26/2025 12:59 Calibration ID: 17690

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 810-161845/4-A	IC1.D
Level 2	IC 810-161845/5-A	IC2.D
Level 3	IC 810-161845/6-A	IC3.D
Level 4	IC 810-161845/7-A	IC4.D
Level 5	IC 810-161845/8-A	IC5.D
Level 6	IC 810-161845/9-A	IC6.D
Level 7	ICISAV 810-161845/10-A	IC7.D
Level 8	IC 810-161845/11-A	IC8.D
Level 9	IC 810-161845/12-A	IC9.D
Level 10	IC 810-161845/13-A	IC10.D
Level 11	IC 810-161845/14-A	IC11.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 10 #	LVL 11 #		LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	
1,4-Dioxane	12.6	10.8	-1.9	-6.0	-4.7	-2.1	40	20	20	20	20	20
	-12.7	4.2	-0.6	-0.4	0.6		20	20	20	20	20	

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC1.D
 Lims ID: IC 810-161845/4-A
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 26-Sep-2025 08:48:43 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041857-003
 Misc. Info.: IC 810-161845/4-A
 Operator ID: TD Instrument ID: GCMS-DM
 Sublist: chrom-522_GCMS-DM*sub3
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\522_GCMS-DM.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:07:41 Calib Date: 26-Sep-2025 12:59:32
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 26-Sep-2025 09:56:02

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	5.854	5.862	-0.008	24	89941	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	7.962	7.952	0.010	0	71785	500.0	519.1	
11 1,4-Dioxane	88	8.035	8.024	0.011	77	528	3.50	3.94	M
10 BFB									

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

O-522BFBSUB_00029

Amount Added: 1.00

Units: mL

Run Reagent

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC1.D

Injection Date: 26-Sep-2025 08:48:43

Instrument ID: GCMS-DM

Lims ID: IC 810-161845/4-A

Client ID:

Operator ID: TD

ALS Bottle#: 3

Worklist Smp#: 3

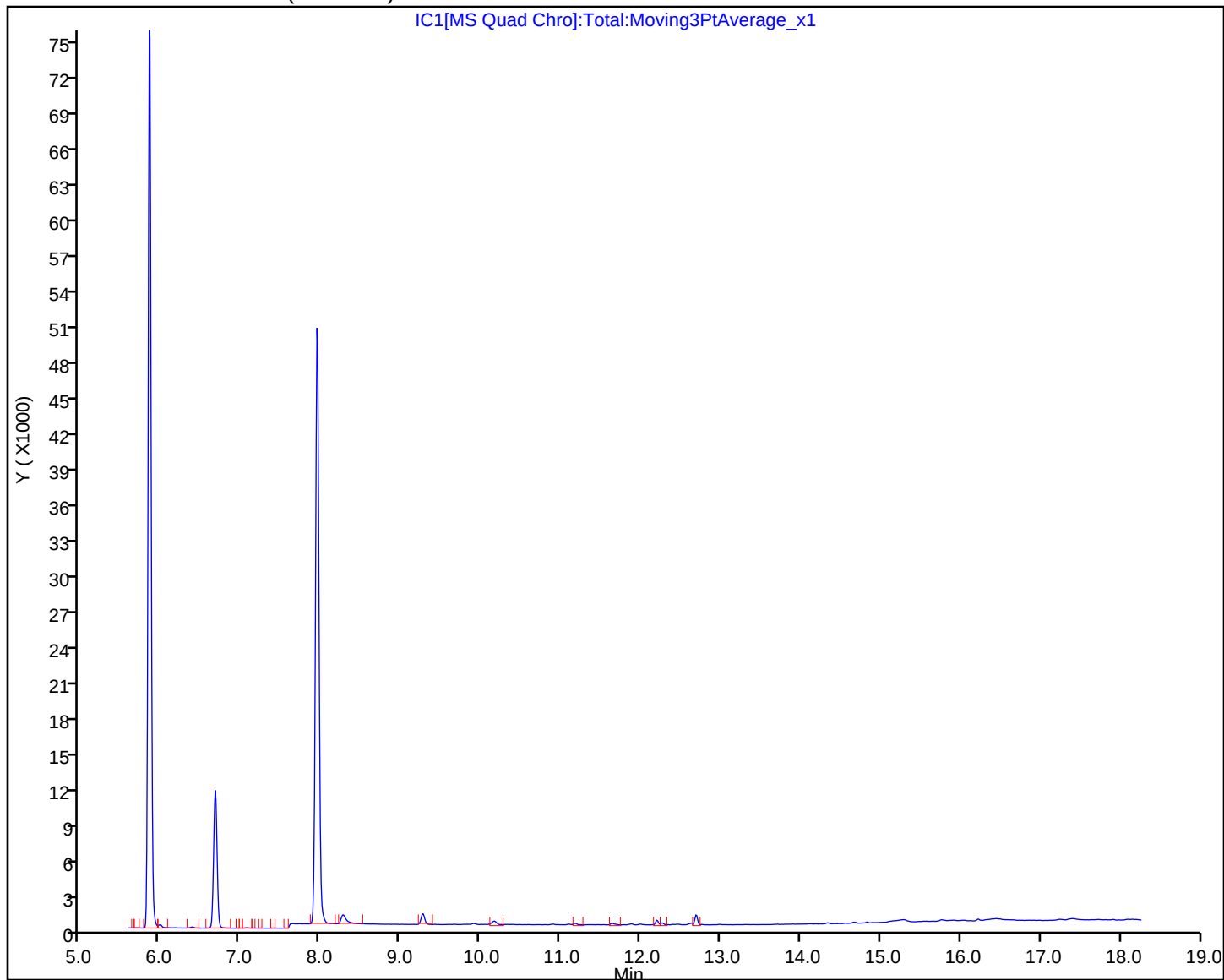
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-DM

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC1.D

Injection Date: 26-Sep-2025 08:48:43

Instrument ID: GCMS-DM

Lims ID: IC 810-161845/4-A

Client ID:

Operator ID: TD

ALS Bottle#:

3

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

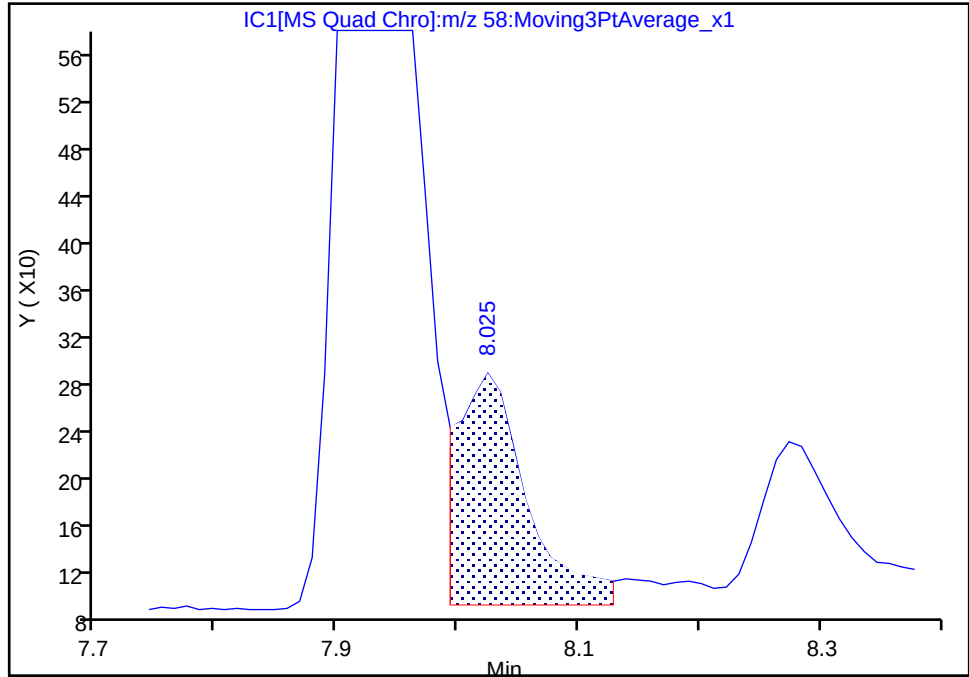
MS Quad

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

Signal: 2

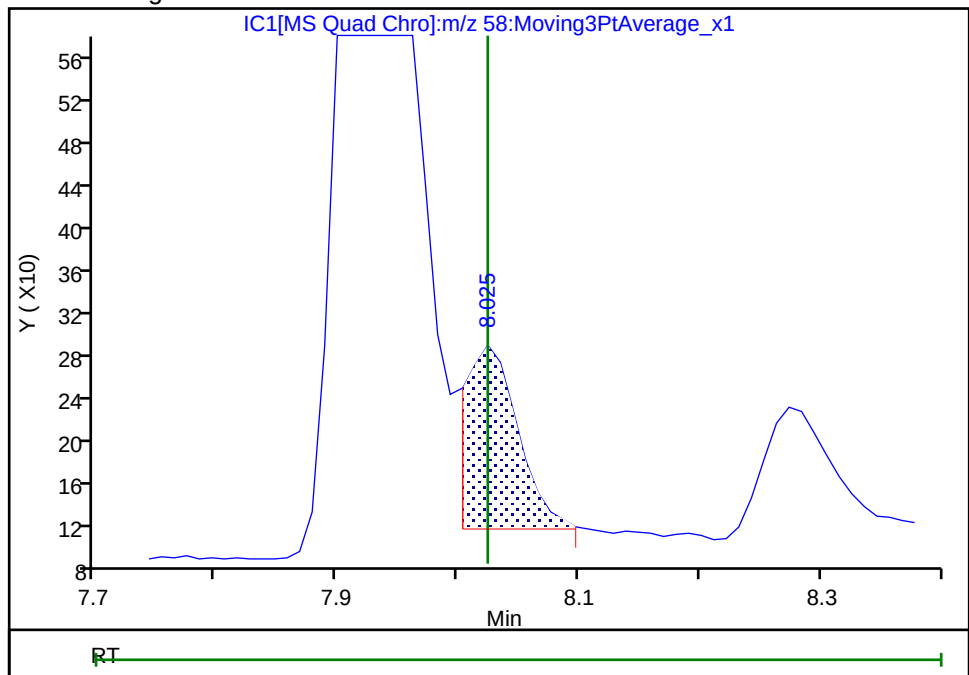
RT: 8.02
Area: 816
Amount: 1.976481
Amount Units: ug/l

Processing Integration Results



RT: 8.02
Area: 525
Amount: 3.942396
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 26-Sep-2025 14:59:03 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC2.D
 Lims ID: IC 810-161845/5-A
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 26-Sep-2025 09:14:10 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041857-004
 Misc. Info.: IC 810-161845/5-A
 Operator ID: TD Instrument ID: GCMS-DM
 Sublist: chrom-522_GCMS-DM*sub3
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\522_GCMS-DM.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:07:42 Calib Date: 26-Sep-2025 12:59:32
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 26-Sep-2025 09:59:25

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	5.854	5.862	-0.008	25	89211	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	7.952	7.952	0.000	0	70851	500.0	516.5	
11 1,4-Dioxane	88	8.035	8.024	0.011	79	750	5.00	5.54	M
10 BFB									

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

O-522BFBSUB_00029

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 29-Sep-2025 08:07:42

Chrom Revision: 2.3 13-Aug-2025 14:00:00

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC2.D

Injection Date: 26-Sep-2025 09:14:10

Instrument ID: GCMS-DM

Lims ID: IC 810-161845/5-A

Client ID:

Operator ID: TD

ALS Bottle#: 4

Worklist Smp#: 4

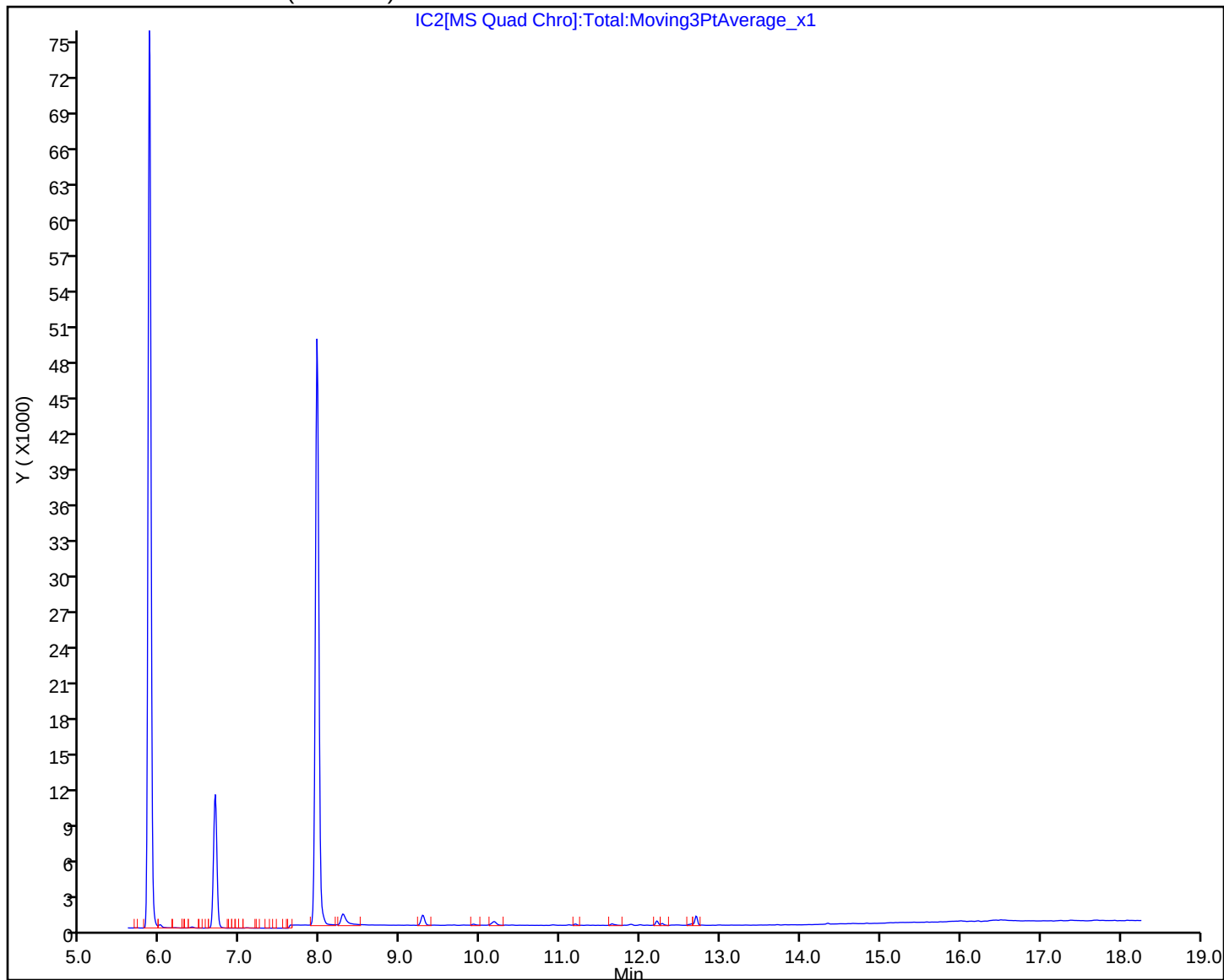
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-DM

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

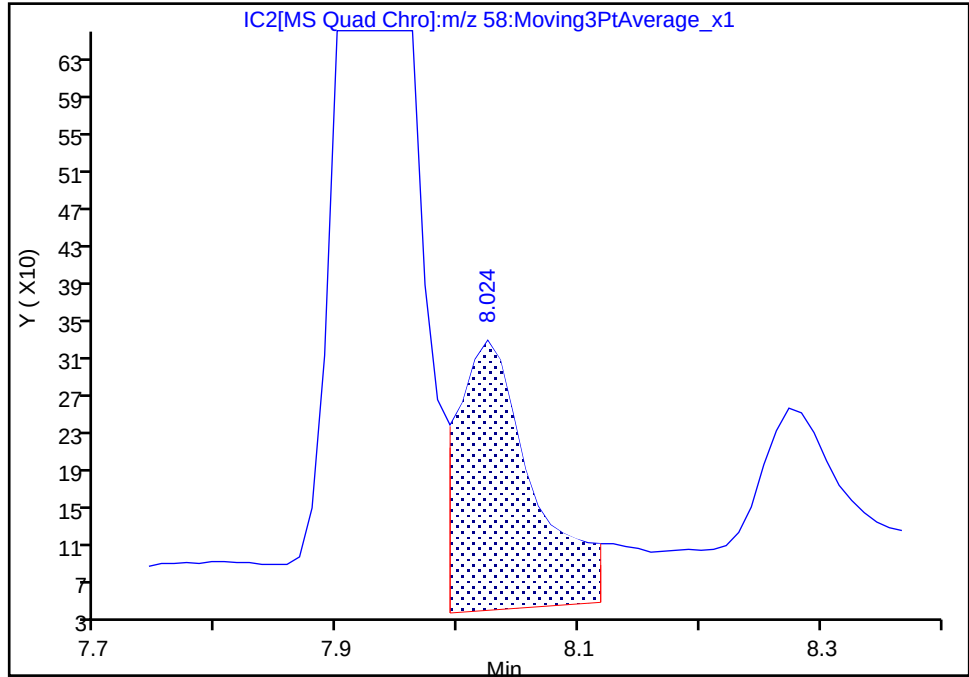
Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC2.D
Injection Date: 26-Sep-2025 09:14:10 Instrument ID: GCMS-DM
Lims ID: IC 810-161845/5-A
Client ID:
Operator ID: TD ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-DM Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector: MS Quad

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

Signal: 2

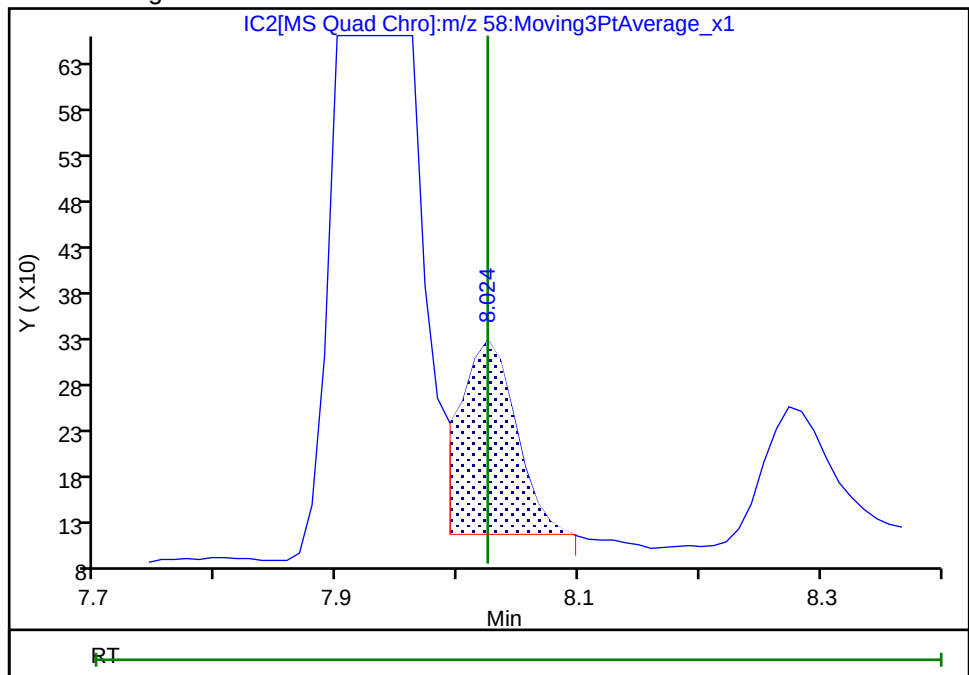
RT: 8.02
Area: 1294
Amount: 6.260952
Amount Units: ug/l

Processing Integration Results



RT: 8.02
Area: 693
Amount: 5.539113
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 26-Sep-2025 14:58:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC3.D
 Lims ID: IC 810-161845/6-A
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 26-Sep-2025 09:39:16 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041857-005
 Misc. Info.: IC 810-161845/6-A
 Operator ID: TD Instrument ID: GCMS-DM
 Sublist: chrom-522_GCMS-DM*sub3
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\522_GCMS-DM.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:07:44 Calib Date: 26-Sep-2025 12:59:32
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 26-Sep-2025 13:54:20

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	5.862	5.862	0.000	26	92254	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	7.962	7.952	0.010	0	73163	500.0	515.8	
11 1,4-Dioxane	88	8.035	8.024	0.011	84	1402	10.0	9.81	M
10 BFB									

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

O-522BFBSUB_00029

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 29-Sep-2025 08:07:44

Chrom Revision: 2.3 13-Aug-2025 14:00:00

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC3.D

Injection Date: 26-Sep-2025 09:39:16

Instrument ID: GCMS-DM

Lims ID: IC 810-161845/6-A

Client ID:

Operator ID: TD

ALS Bottle#:

5

Worklist Smp#:

5

Injection Vol: 1.0 ul

Dil. Factor:

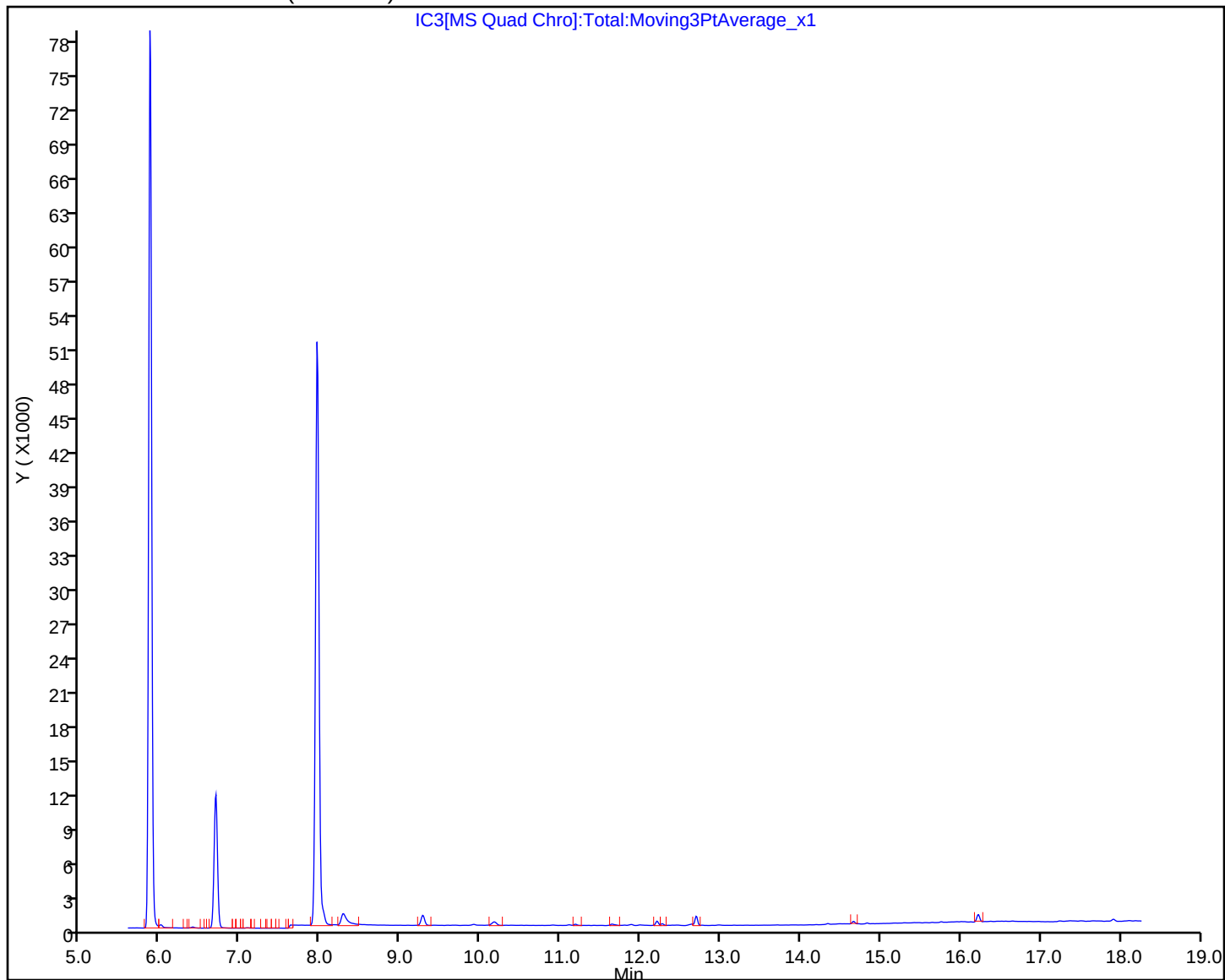
1.0000

Method: 522_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC3.D

Injection Date: 26-Sep-2025 09:39:16

Instrument ID: GCMS-DM

Lims ID: IC 810-161845/6-A

Client ID:

Operator ID: TD

ALS Bottle#:

5

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

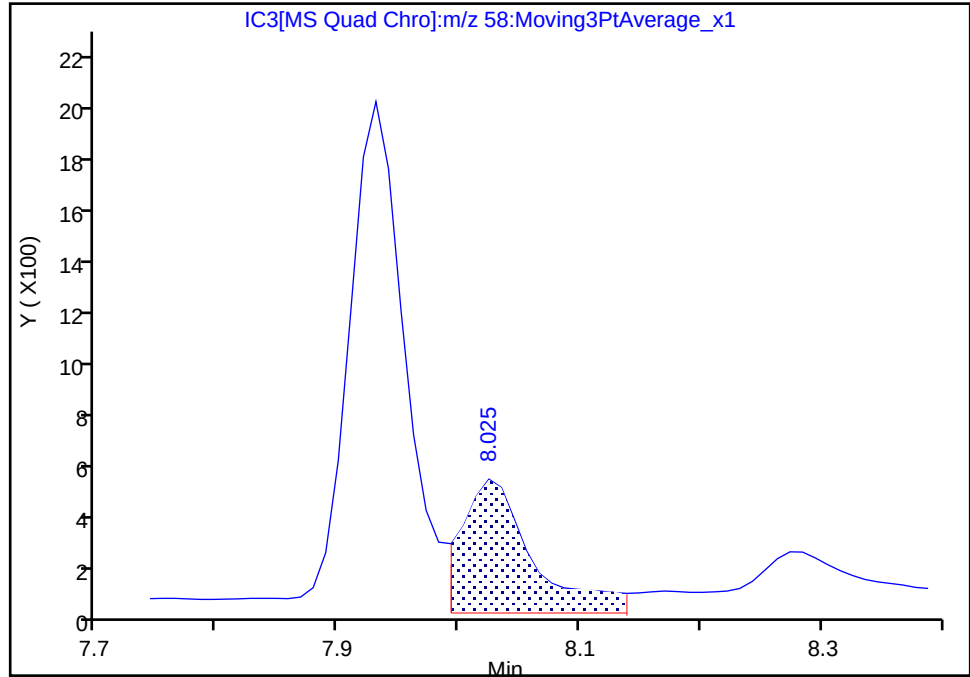
MS Quad

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

Signal: 2

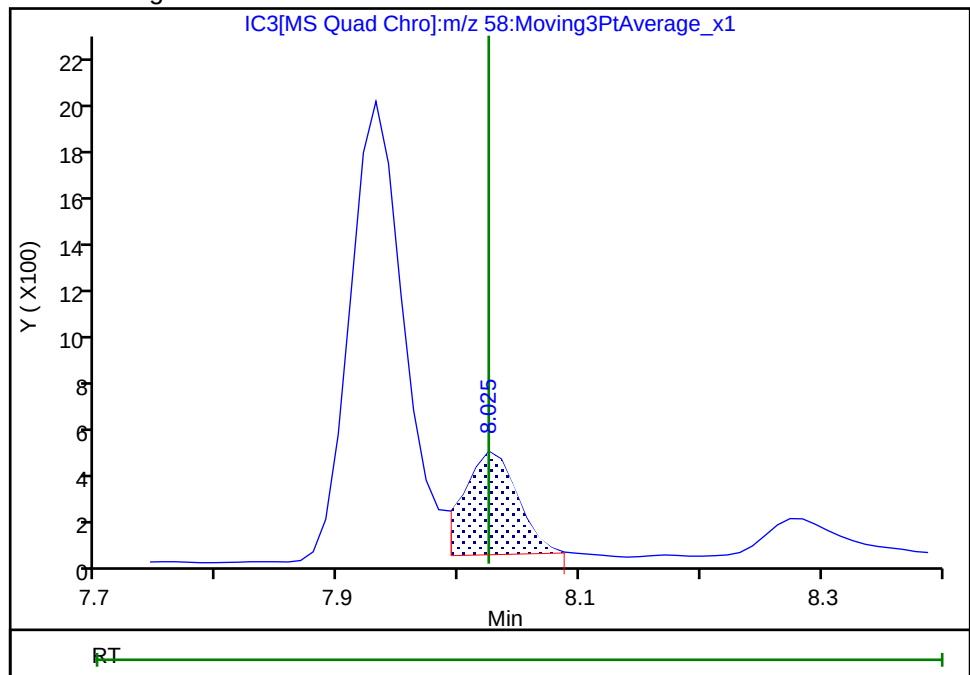
RT: 8.02
Area: 2130
Amount: 13.023767
Amount Units: ug/l

Processing Integration Results



RT: 8.02
Area: 1329
Amount: 9.813445
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 26-Sep-2025 09:59:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC4.D
 Lims ID: IC 810-161845/7-A
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 26-Sep-2025 10:04:19 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041857-006
 Misc. Info.: IC 810-161845/7-A
 Operator ID: TD Instrument ID: GCMS-DM
 Sublist: chrom-522_GCMS-DM*sub3
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\522_GCMS-DM.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:07:46 Calib Date: 26-Sep-2025 12:59:32
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 26-Sep-2025 14:58:01

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	5.862	5.862	0.000	25	93649	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	7.952	7.952	0.000	0	73352	500.0	509.4	
11 1,4-Dioxane	88	8.035	8.024	0.011	85	3458	25.0	23.5	M
10 BFB									

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

O-522BFBSUB_00029

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 29-Sep-2025 08:07:46

Chrom Revision: 2.3 13-Aug-2025 14:00:00

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC4.D

Injection Date: 26-Sep-2025 10:04:19

Instrument ID: GCMS-DM

Lims ID: IC 810-161845/7-A

Client ID:

Operator ID: TD

ALS Bottle#: 6

Worklist Smp#: 6

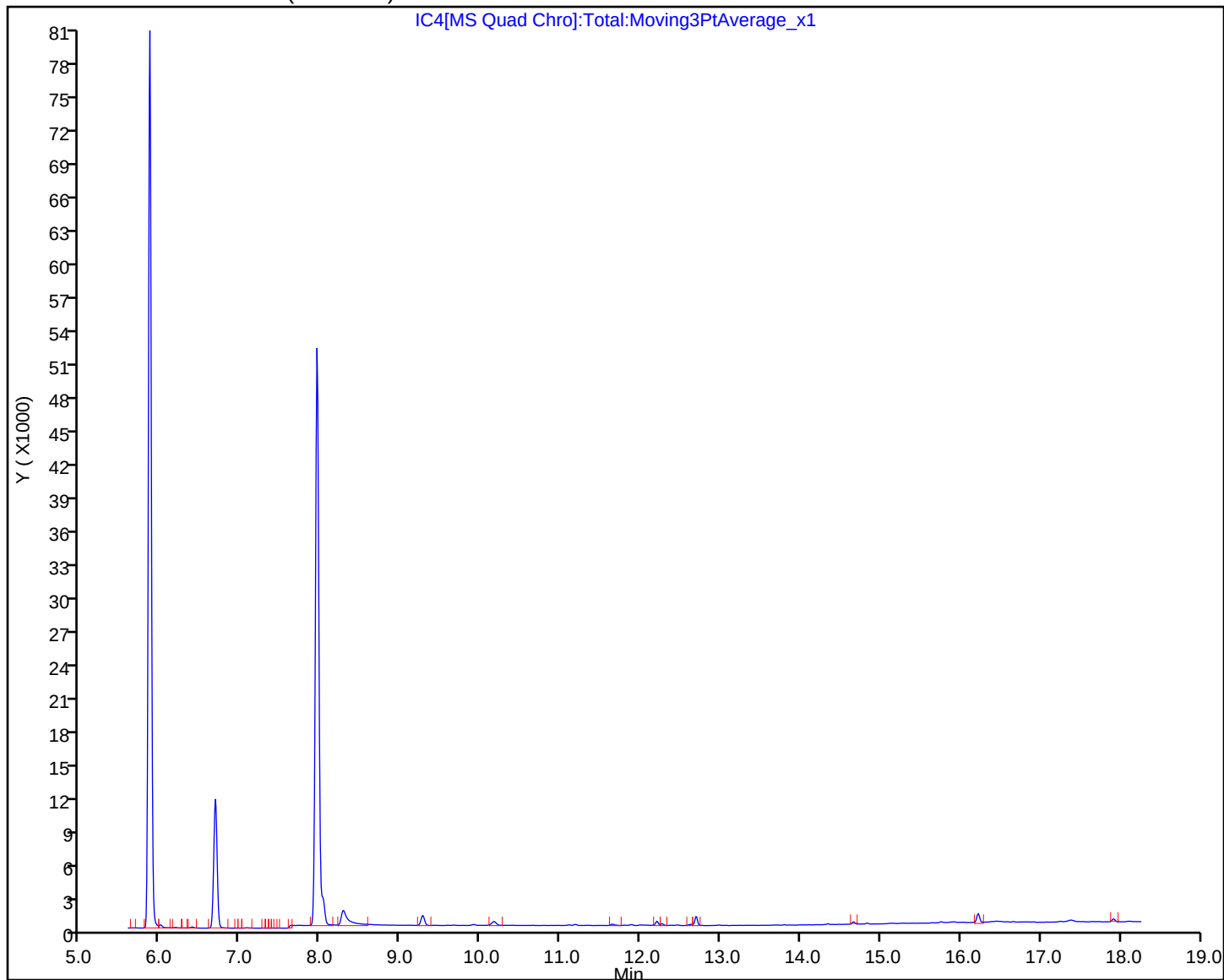
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-DM

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

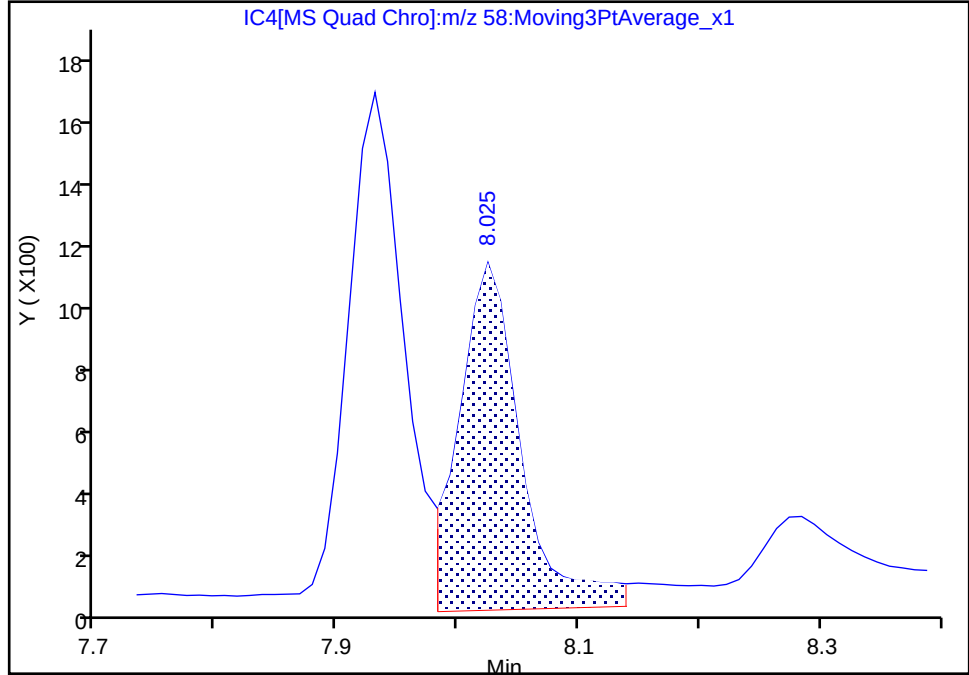
Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC4.D
Injection Date: 26-Sep-2025 10:04:19 Instrument ID: GCMS-DM
Lims ID: IC 810-161845/7-A
Client ID:
Operator ID: TD ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-DM Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector MS Quad

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

Signal: 2

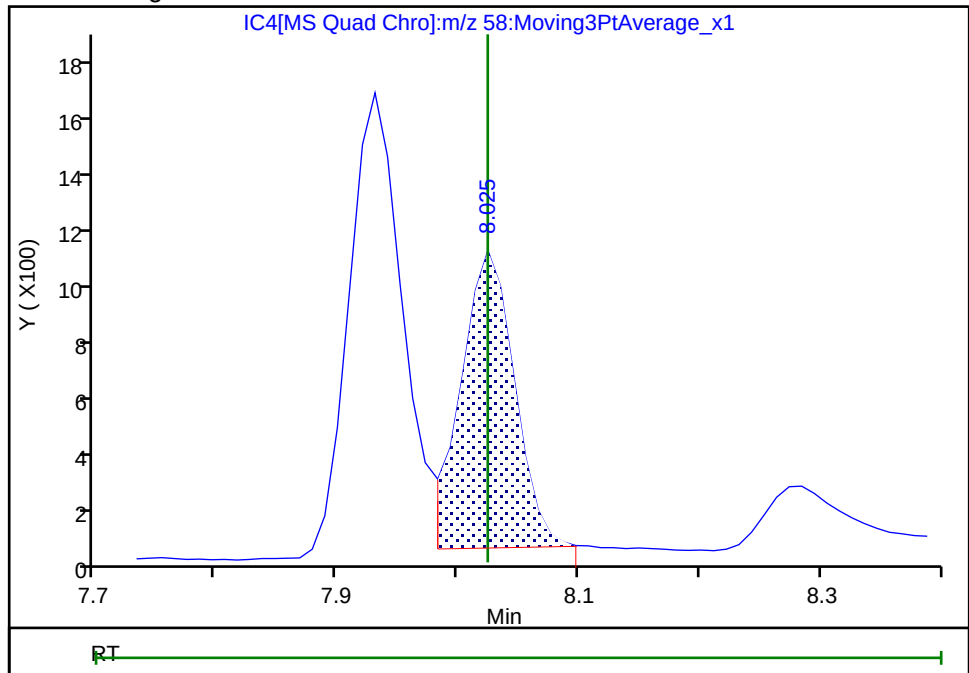
RT: 8.02
Area: 3901
Amount: 23.831986
Amount Units: ug/l

Processing Integration Results



RT: 8.02
Area: 3056
Amount: 23.490992
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 26-Sep-2025 14:57:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC4.D

Injection Date: 26-Sep-2025 10:04:19

Instrument ID: GCMS-DM

Lims ID: IC 810-161845/7-A

Client ID:

Operator ID: TD

ALS Bottle#:

6

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

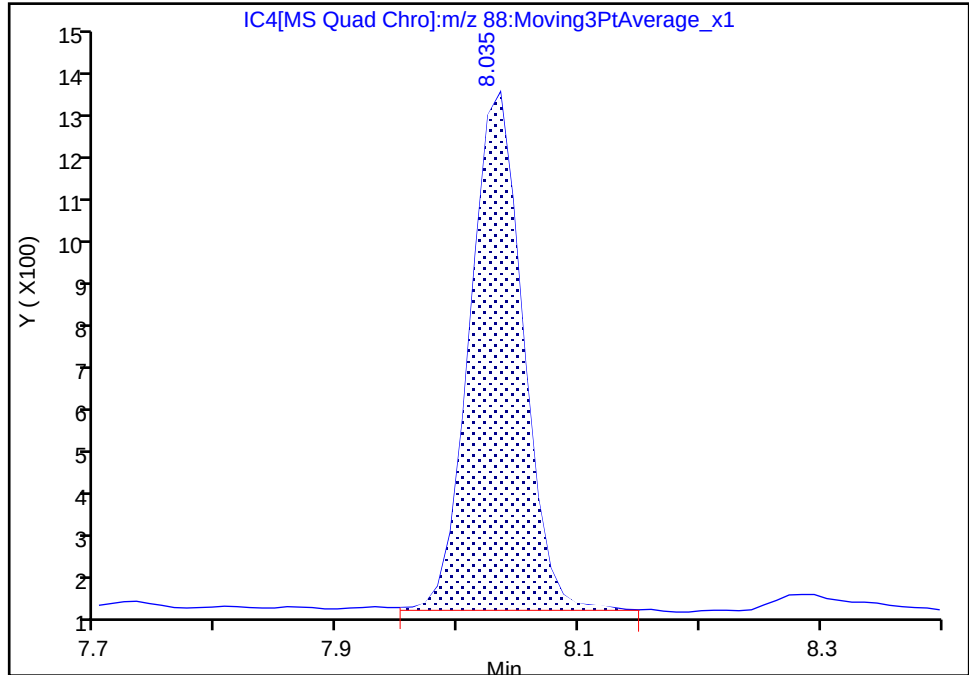
MS Quad

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

Signal: 1

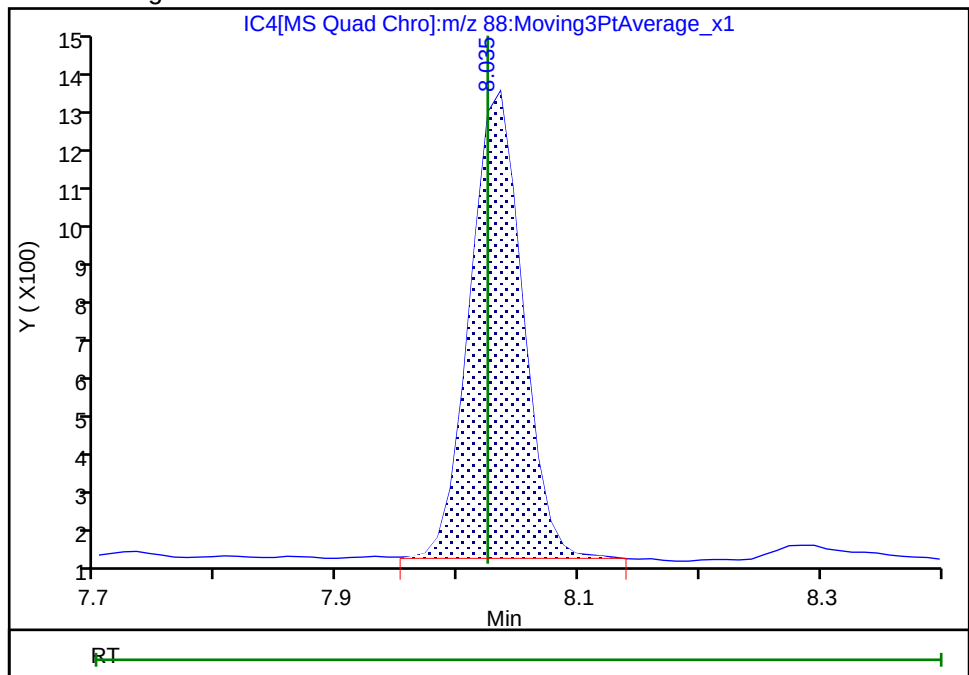
RT: 8.04
Area: 3512
Amount: 23.831986
Amount Units: ug/l

Processing Integration Results



RT: 8.04
Area: 3458
Amount: 23.490992
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 26-Sep-2025 14:57:59 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC5.D
 Lims ID: IC 810-161845/8-A
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 26-Sep-2025 10:29:18 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041857-007
 Misc. Info.: IC 810-161845/8-A
 Operator ID: TD Instrument ID: GCMS-DM
 Sublist: chrom-522_GCMS-DM*sub3
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\522_GCMS-DM.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:07:48 Calib Date: 26-Sep-2025 12:59:32
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 26-Sep-2025 14:57:41

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	5.846	5.846	0.000	26	89145	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	7.952	7.952	0.000	0	69097	500.0	504.1	
11 1,4-Dioxane	88	8.035	8.035	0.000	85	6716	50.0	47.7	M
10 BFB									

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

O-522BFBSUB_00029

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 29-Sep-2025 08:07:48

Chrom Revision: 2.3 13-Aug-2025 14:00:00

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC5.D

Injection Date: 26-Sep-2025 10:29:18

Instrument ID: GCMS-DM

Lims ID: IC 810-161845/8-A

Client ID:

Operator ID: TD

ALS Bottle#:

7

Worklist Smp#:

7

Injection Vol: 1.0 ul

Dil. Factor:

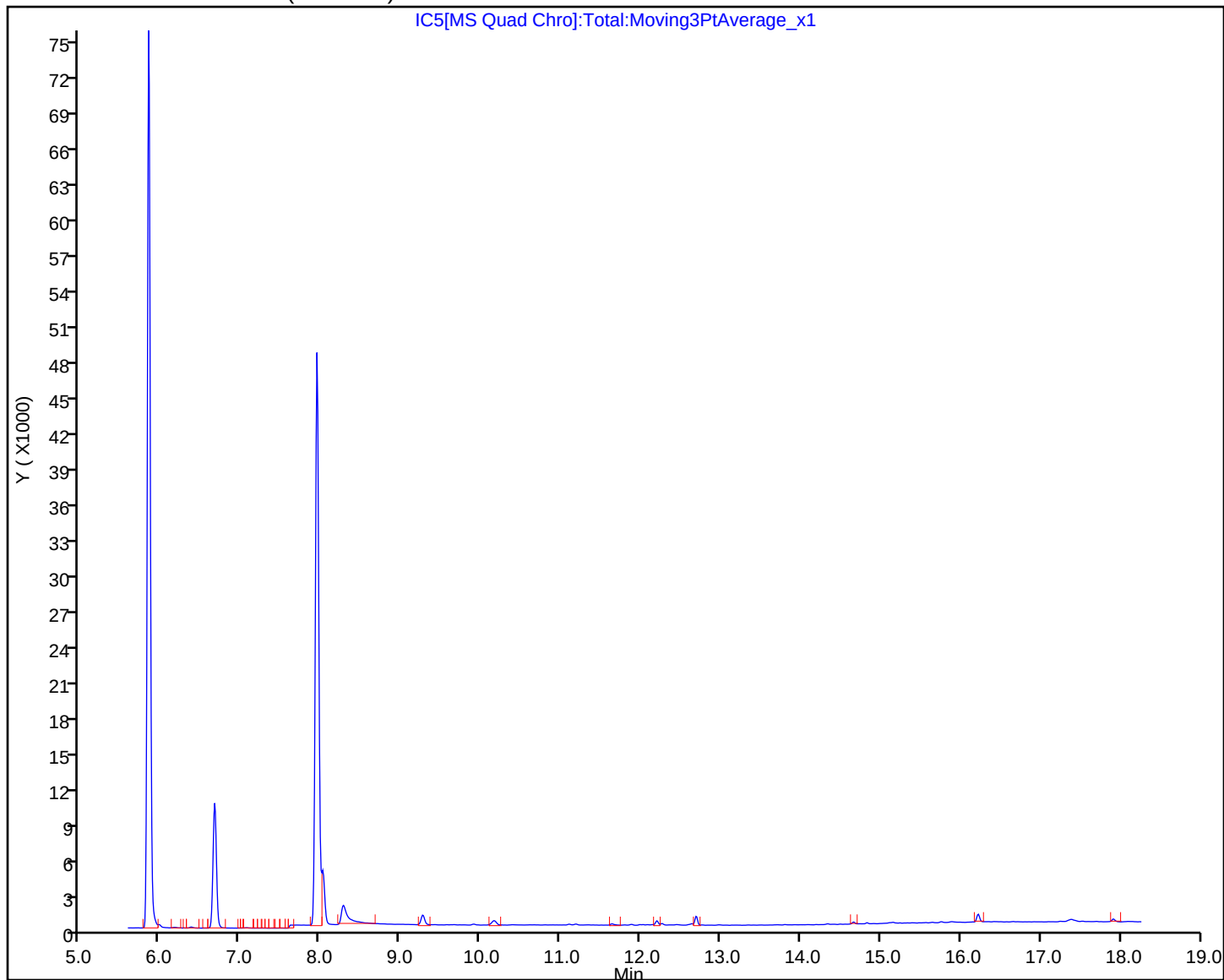
1.0000

Method: 522_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC5.D

Injection Date: 26-Sep-2025 10:29:18

Instrument ID: GCMS-DM

Lims ID: IC 810-161845/8-A

Client ID:

Operator ID: TD

ALS Bottle#:

7

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

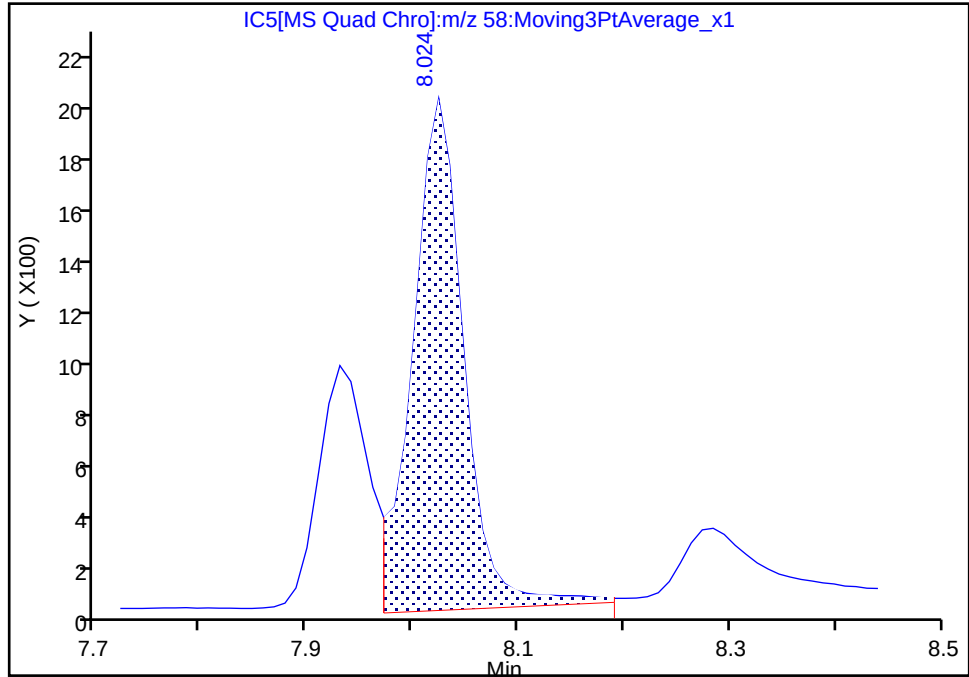
MS Quad

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

Signal: 2

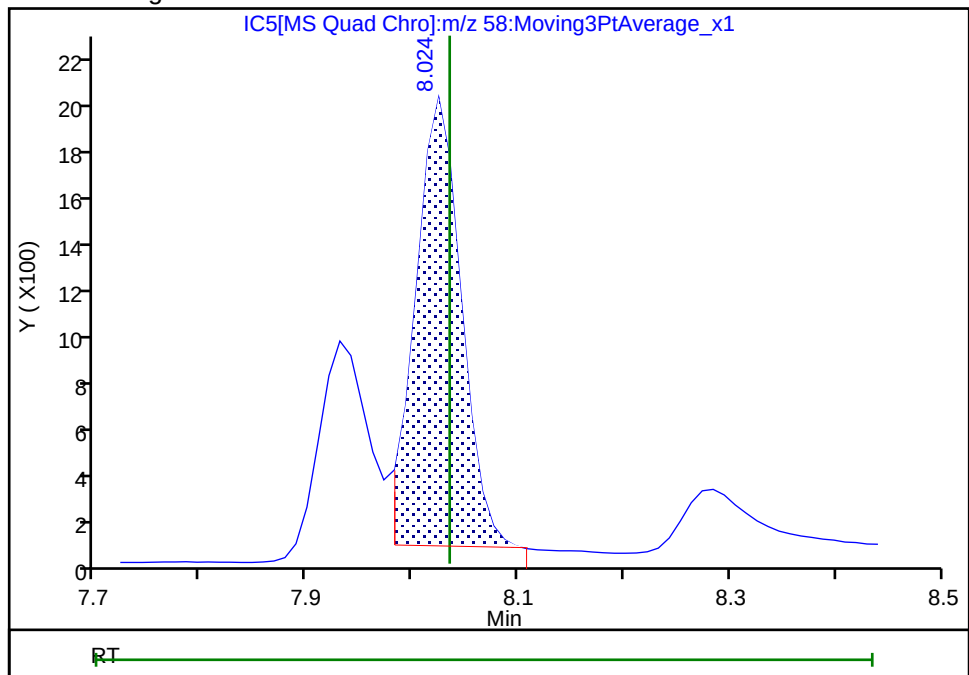
RT: 8.02
Area: 6598
Amount: 48.309185
Amount Units: ug/l

Processing Integration Results



RT: 8.02
Area: 5622
Amount: 47.671523
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 26-Sep-2025 14:57:40 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC6.D
 Lims ID: IC 810-161845/9-A
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 26-Sep-2025 10:54:30 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041857-008
 Misc. Info.: IC 810-161845/9-A
 Operator ID: TD Instrument ID: GCMS-DM
 Sublist: chrom-522_GCMS-DM*sub3
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\522_GCMS-DM.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:07:50 Calib Date: 26-Sep-2025 12:59:32
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 26-Sep-2025 14:57:17

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	5.846	5.846	0.000	25	91903	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	7.952	7.952	0.000	0	72736	500.0	514.7	
11 1,4-Dioxane	88	8.024	8.035	-0.011	84	14263	100.0	97.9	M
10 BFB									

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

O-522BFBSUB_00029

Amount Added: 1.00

Units: mL

Run Reagent

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC6.D

Injection Date: 26-Sep-2025 10:54:30

Instrument ID: GCMS-DM

Lims ID: IC 810-161845/9-A

Client ID:

Operator ID: TD

ALS Bottle#: 8

Worklist Smp#: 8

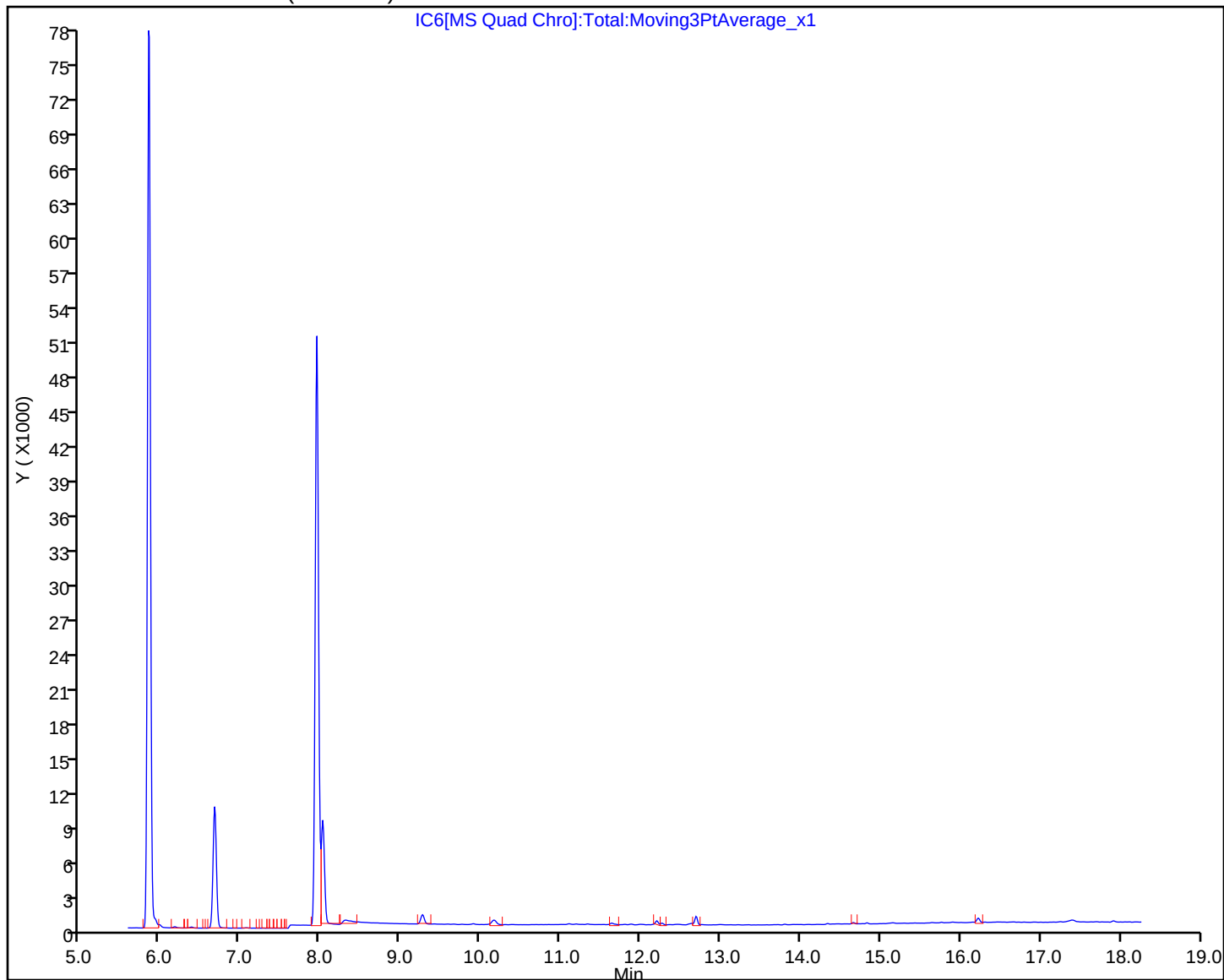
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-DM

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

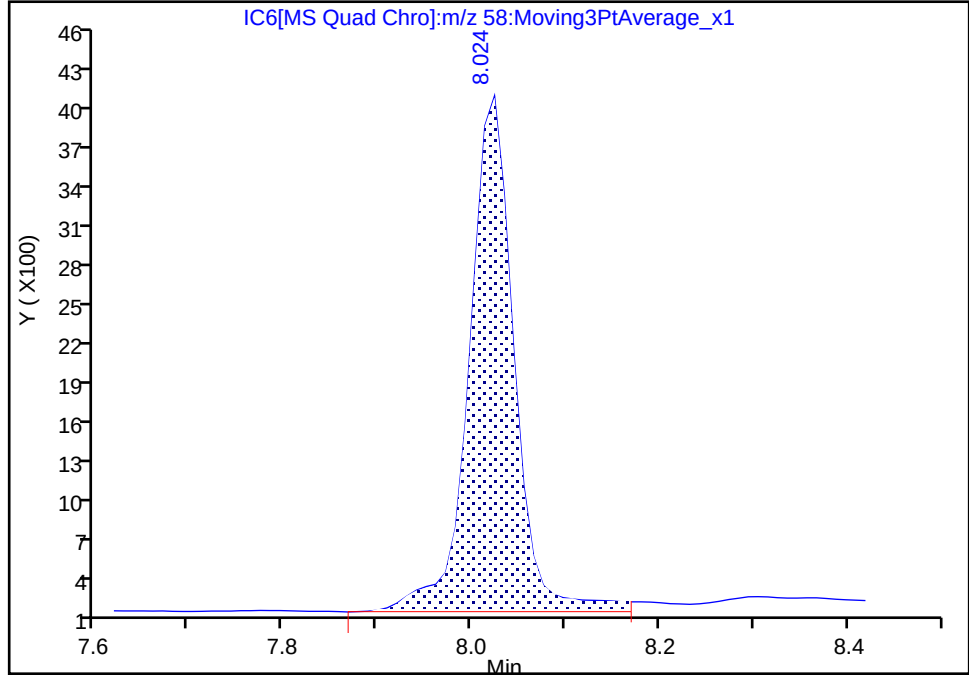
Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC6.D
Injection Date: 26-Sep-2025 10:54:30 Instrument ID: GCMS-DM
Lims ID: IC 810-161845/9-A
Client ID:
Operator ID: TD ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-DM Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector: MS Quad

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

Signal: 2

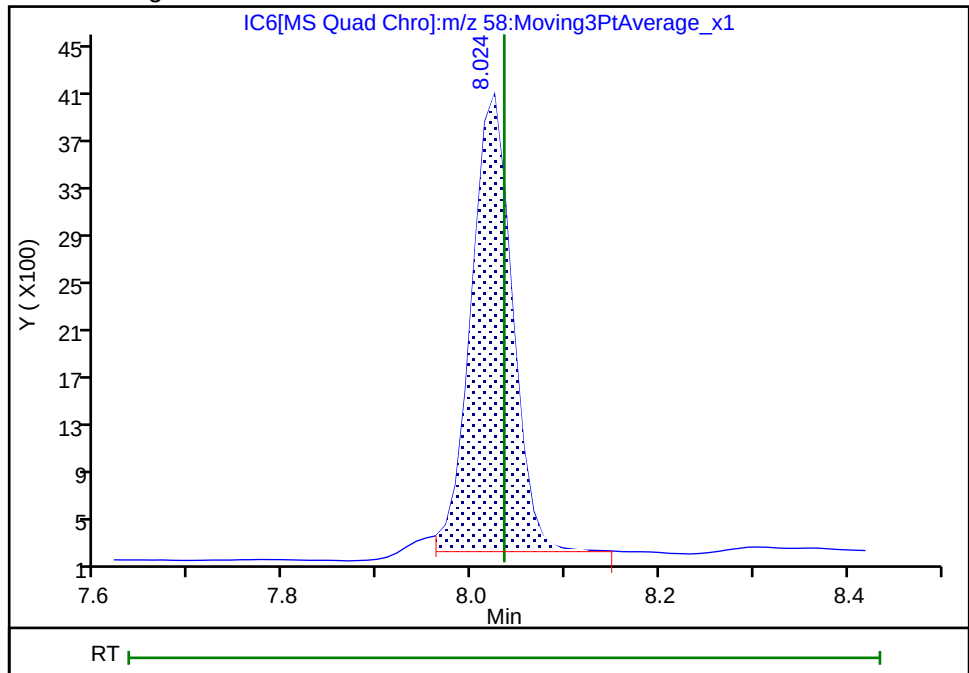
RT: 8.02
Area: 13273
Amount: 97.819091
Amount Units: ug/l

Processing Integration Results



RT: 8.02
Area: 11920
Amount: 97.941622
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 26-Sep-2025 14:57:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC7.D
 Lims ID: ICISAV 810-161845/10-A
 Client ID:
 Sample Type: ICISAV Calib Level: 7
 Inject. Date: 26-Sep-2025 11:19:41 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041857-009
 Misc. Info.: ICISAV 810-161845/10-A
 Operator ID: TD Instrument ID: GCMS-DM
 Sublist: chrom-522_GCMS-DM*sub3
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\522_GCMS-DM.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:07:52 Calib Date: 26-Sep-2025 12:59:32
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 26-Sep-2025 14:56:54

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	5.862	5.862	0.000	25	84637	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	7.952	7.952	0.000	0	58280	500.0	447.8	
11 1,4-Dioxane	88	8.024	8.024	0.000	84	29326	250.0	218.4	M
10 BFB									

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

O-522BFBSUB_00029

Amount Added: 1.00

Units: mL

Run Reagent

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC7.D

Injection Date: 26-Sep-2025 11:19:41

Instrument ID: GCMS-DM

Lims ID: ICISAV 810-161845/10-A

Client ID:

Operator ID: TD

ALS Bottle#:

9

Worklist Smp#:

9

Injection Vol: 1.0 ul

Dil. Factor:

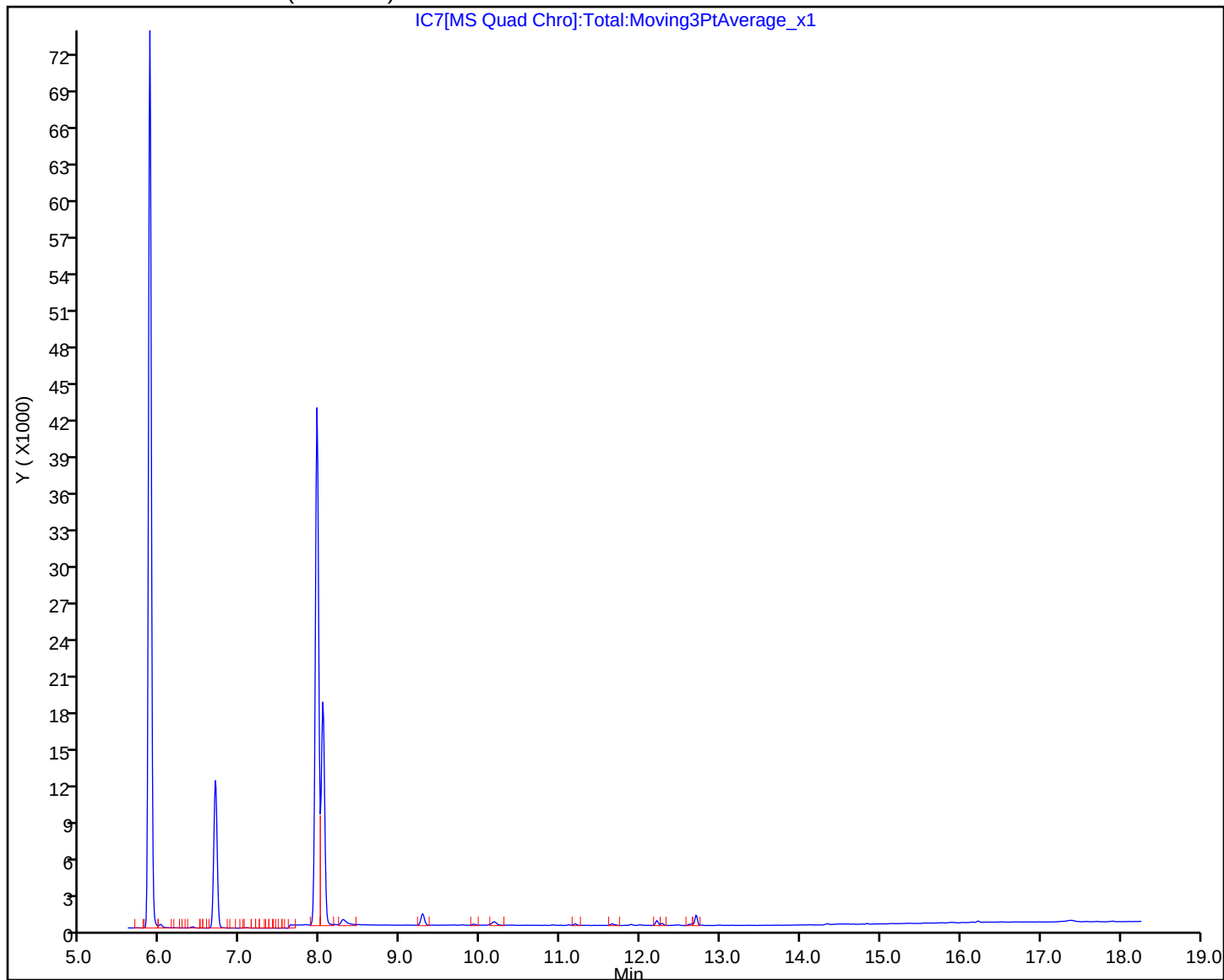
1.0000

Method: 522_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC7.D

Injection Date: 26-Sep-2025 11:19:41

Instrument ID: GCMS-DM

Lims ID: ICISAV 810-161845/10-A

Client ID:

Operator ID: TD

ALS Bottle#:

9

Worklist Smp#: 9

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

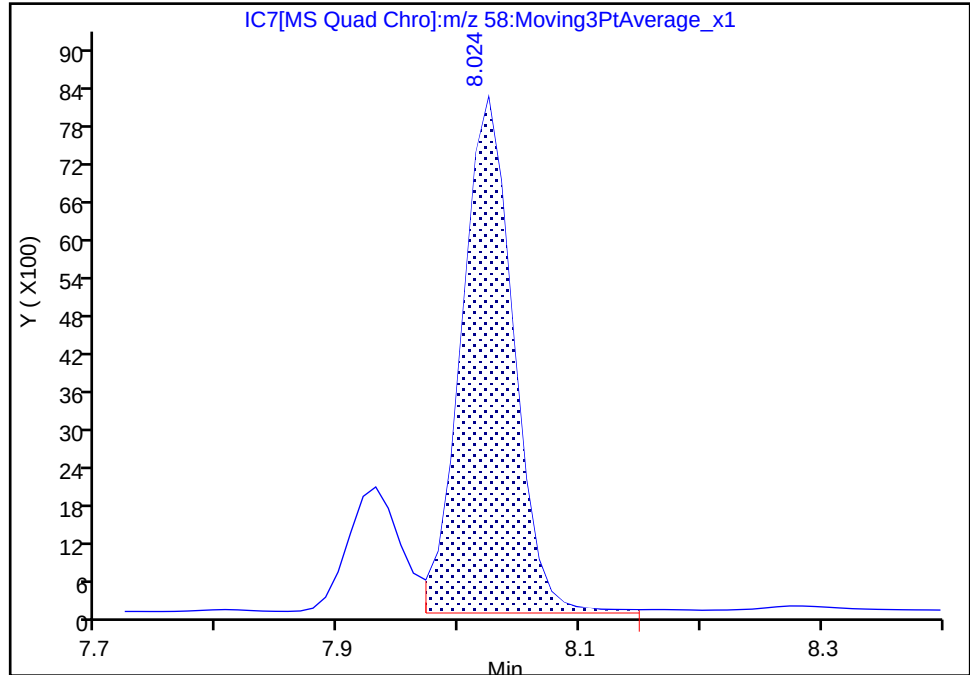
MS Quad

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

Signal: 2

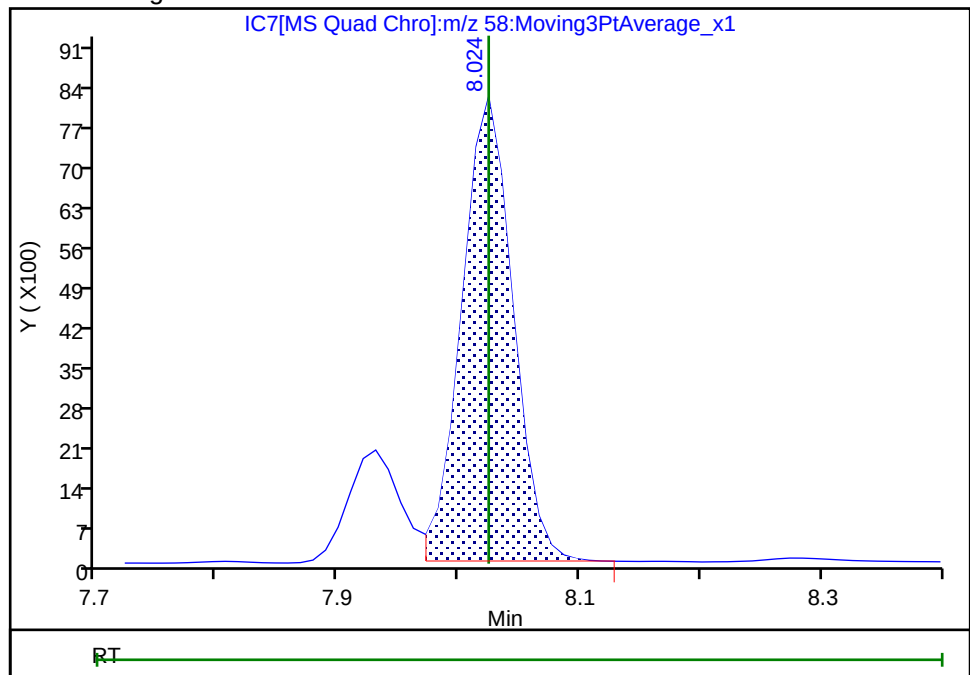
RT: 8.02
Area: 24604
Amount: 228.2001
Amount Units: ug/l

Processing Integration Results



RT: 8.02
Area: 23792
Amount: 218.3603
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 26-Sep-2025 14:56:52 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC8.D
 Lims ID: IC 810-161845/11-A
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 26-Sep-2025 11:44:51 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041857-010
 Misc. Info.: IC 810-161845/11-A
 Operator ID: TD Instrument ID: GCMS-DM
 Sublist: chrom-522_GCMS-DM*sub3
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\522_GCMS-DM.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:07:53 Calib Date: 26-Sep-2025 12:59:32
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 26-Sep-2025 13:56:14

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	5.854	5.862	-0.008	26	88182	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	7.952	7.952	0.000	0	68080	500.0	502.1	
11 1,4-Dioxane	88	8.024	8.024	0.000	85	72966	500.0	521.1	M
10 BFB									

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

O-522BFBSUB_00029

Amount Added: 1.00

Units: mL

Run Reagent

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC8.D

Injection Date: 26-Sep-2025 11:44:51

Instrument ID: GCMS-DM

Lims ID: IC 810-161845/11-A

Client ID:

Operator ID: TD

ALS Bottle#: 10

Worklist Smp#: 10

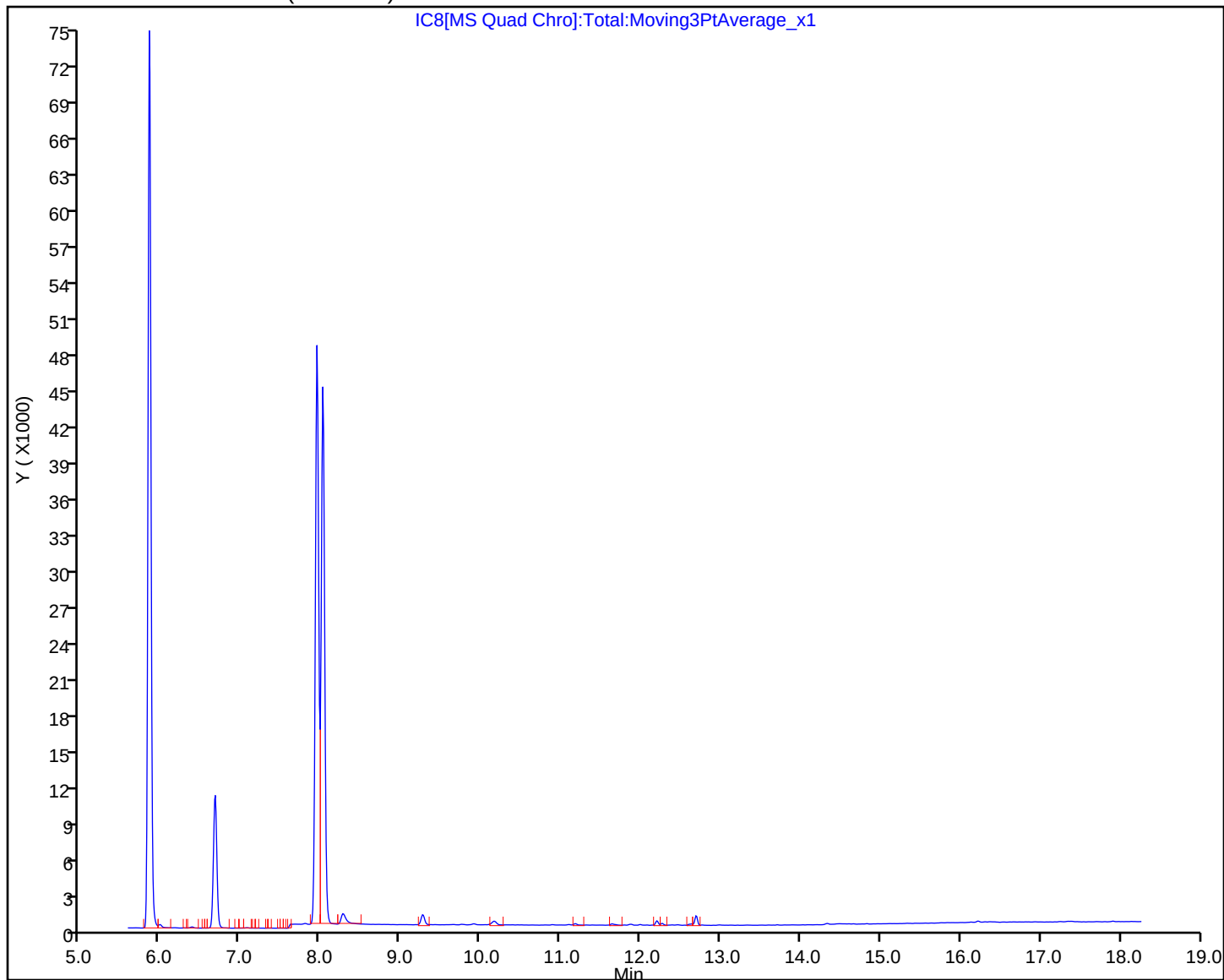
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-DM

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC8.D

Injection Date: 26-Sep-2025 11:44:51

Instrument ID: GCMS-DM

Lims ID: IC 810-161845/11-A

Client ID:

Operator ID: TD

ALS Bottle#:

10

Worklist Smp#:

10

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

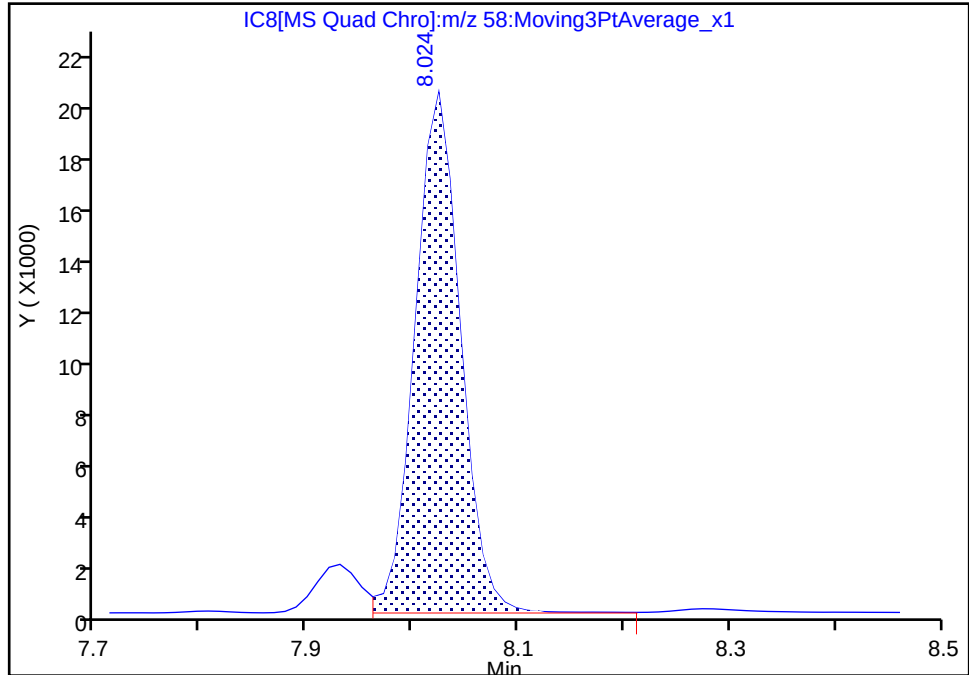
MS Quad

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

Signal: 2

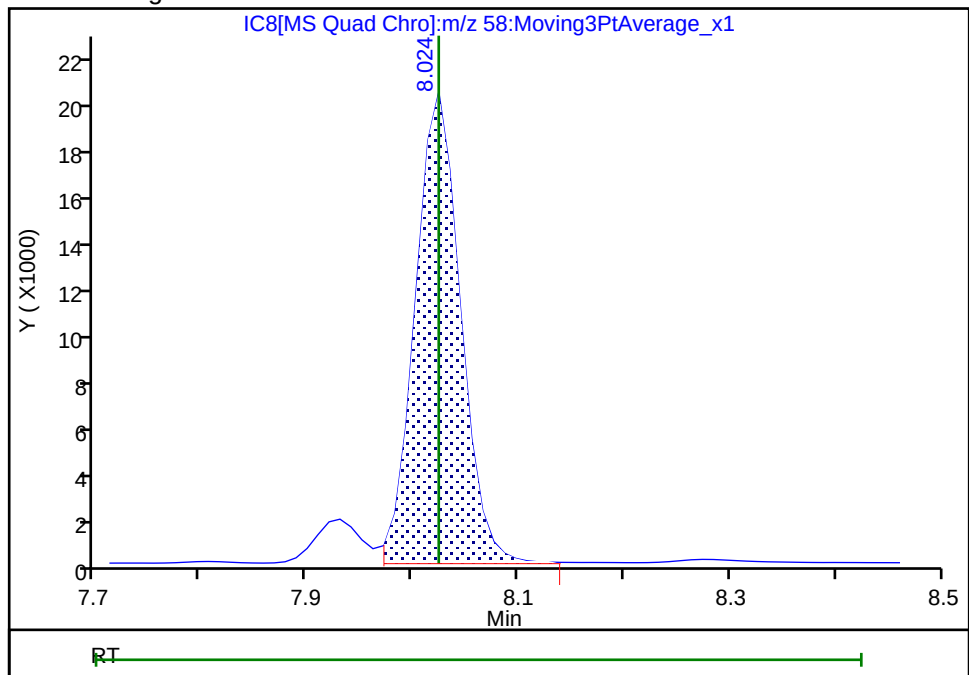
RT: 8.02
Area: 60088
Amount: 536.8602
Amount Units: ug/l

Processing Integration Results



RT: 8.02
Area: 58773
Amount: 521.1180
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 26-Sep-2025 14:56:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC9.D
 Lims ID: IC 810-161845/12-A
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 26-Sep-2025 12:09:43 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041857-011
 Misc. Info.: IC 810-161845/12-A
 Operator ID: TD Instrument ID: GCMS-DM
 Sublist: chrom-522_GCMS-DM*sub3
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\522_GCMS-DM.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:07:54 Calib Date: 26-Sep-2025 12:59:32
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 26-Sep-2025 13:55:22

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	5.854	5.862	-0.008	26	90448	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	7.962	7.952	0.010	0	68519	500.0	492.7	
11 1,4-Dioxane	88	8.035	8.024	0.011	84	142798	1000.0	994.1	M
10 BFB									

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

O-522BFBSUB_00029

Amount Added: 1.00

Units: mL

Run Reagent

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC9.D

Injection Date: 26-Sep-2025 12:09:43

Instrument ID: GCMS-DM

Lims ID: IC 810-161845/12-A

Client ID:

Operator ID: TD

ALS Bottle#: 11

Worklist Smp#: 11

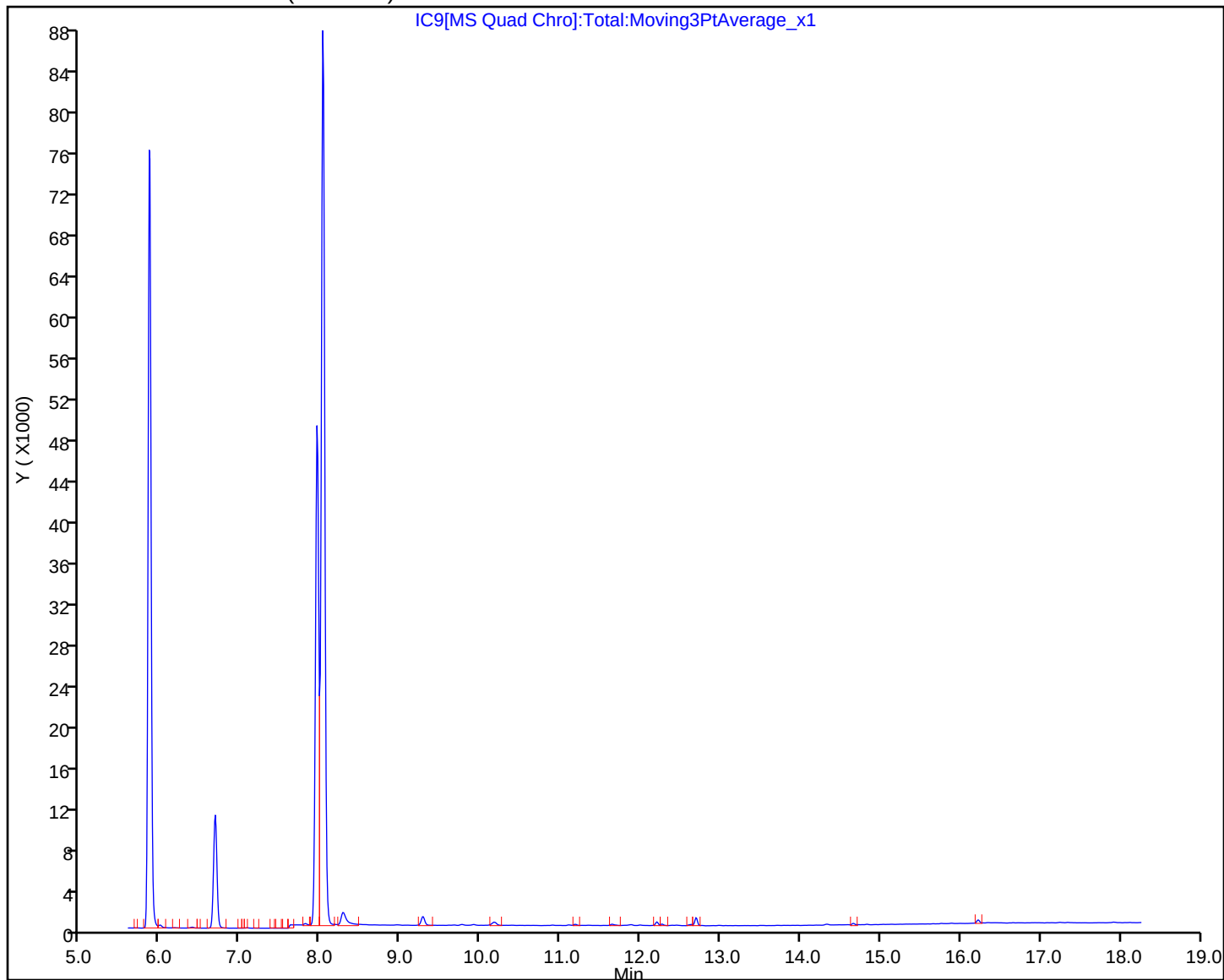
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-DM

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC9.D

Injection Date: 26-Sep-2025 12:09:43

Instrument ID: GCMS-DM

Lims ID: IC 810-161845/12-A

Client ID:

Operator ID: TD

ALS Bottle#: 11

Worklist Smp#: 11

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-DM

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)

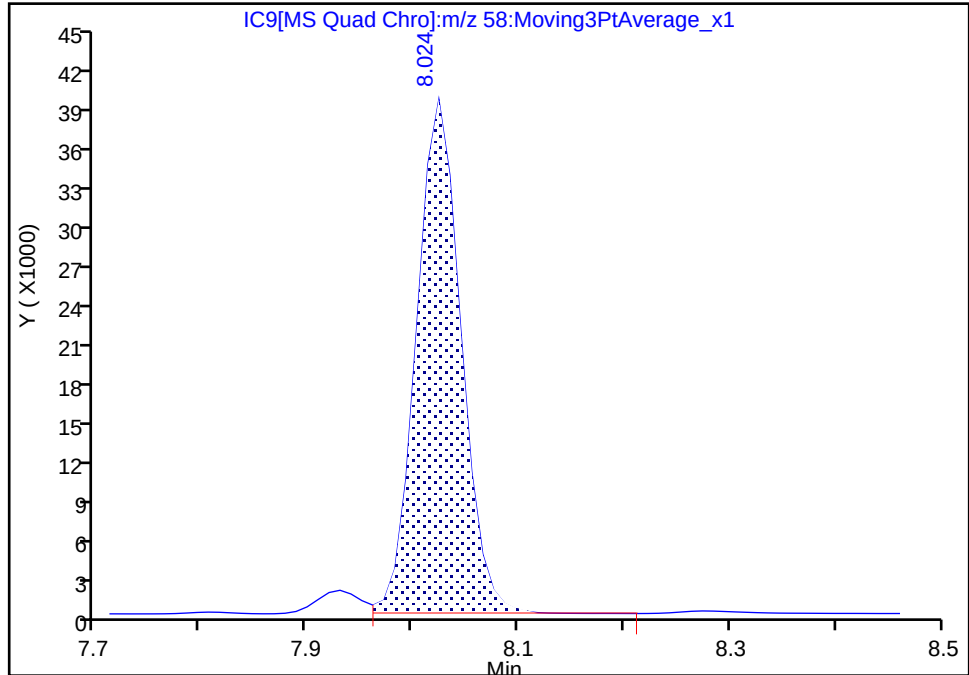
Detector: MS Quad

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

Signal: 2

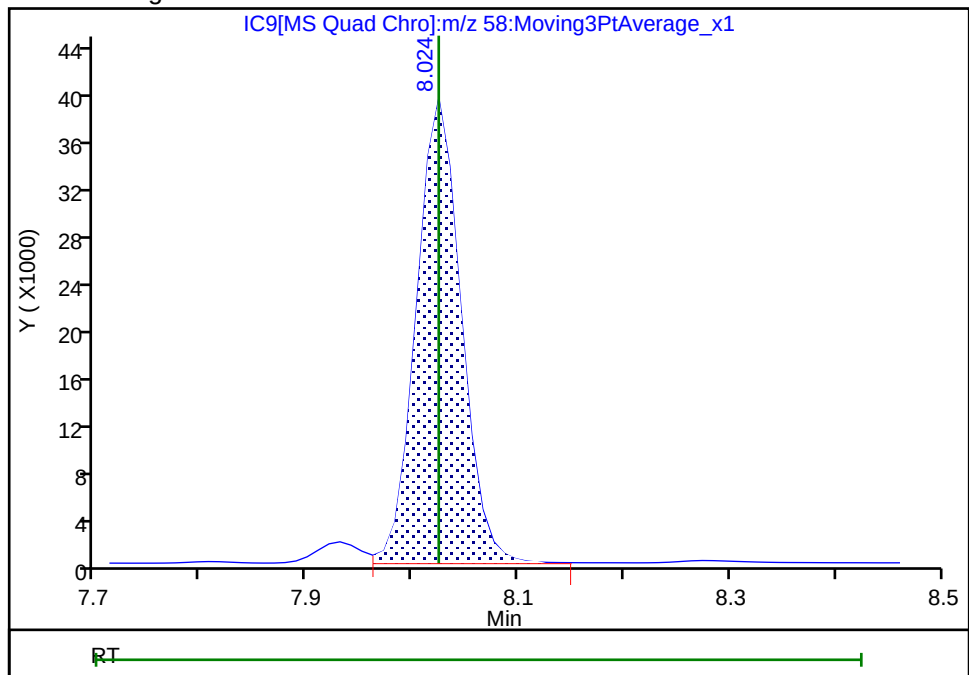
RT: 8.02
Area: 115778
Amount: 2009.9281
Amount Units: ug/l

Processing Integration Results



RT: 8.02
Area: 114901
Amount: 994.0786
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 26-Sep-2025 14:56:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC10.D
 Lims ID: IC 810-161845/13-A
 Client ID:
 Sample Type: IC Calib Level: 10
 Inject. Date: 26-Sep-2025 12:34:40 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041857-012
 Misc. Info.: IC 810-161845/13-A
 Operator ID: TD Instrument ID: GCMS-DM
 Sublist: chrom-522_GCMS-DM*sub3
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\522_GCMS-DM.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:07:56 Calib Date: 26-Sep-2025 12:59:32
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 26-Sep-2025 13:55:04

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	5.846	5.862	-0.016	25	85167	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	7.952	7.952	0.000	0	65373	500.0	499.2	
11 1,4-Dioxane	88	8.024	8.024	0.000	84	336772	2500.0	2489.4	M
10 BFB									

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

O-522BFBSUB_00029

Amount Added: 1.00

Units: mL

Run Reagent

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC10.D

Injection Date: 26-Sep-2025 12:34:40

Instrument ID: GCMS-DM

Lims ID: IC 810-161845/13-A

Client ID:

Operator ID: TD

ALS Bottle#: 12

Worklist Smp#: 12

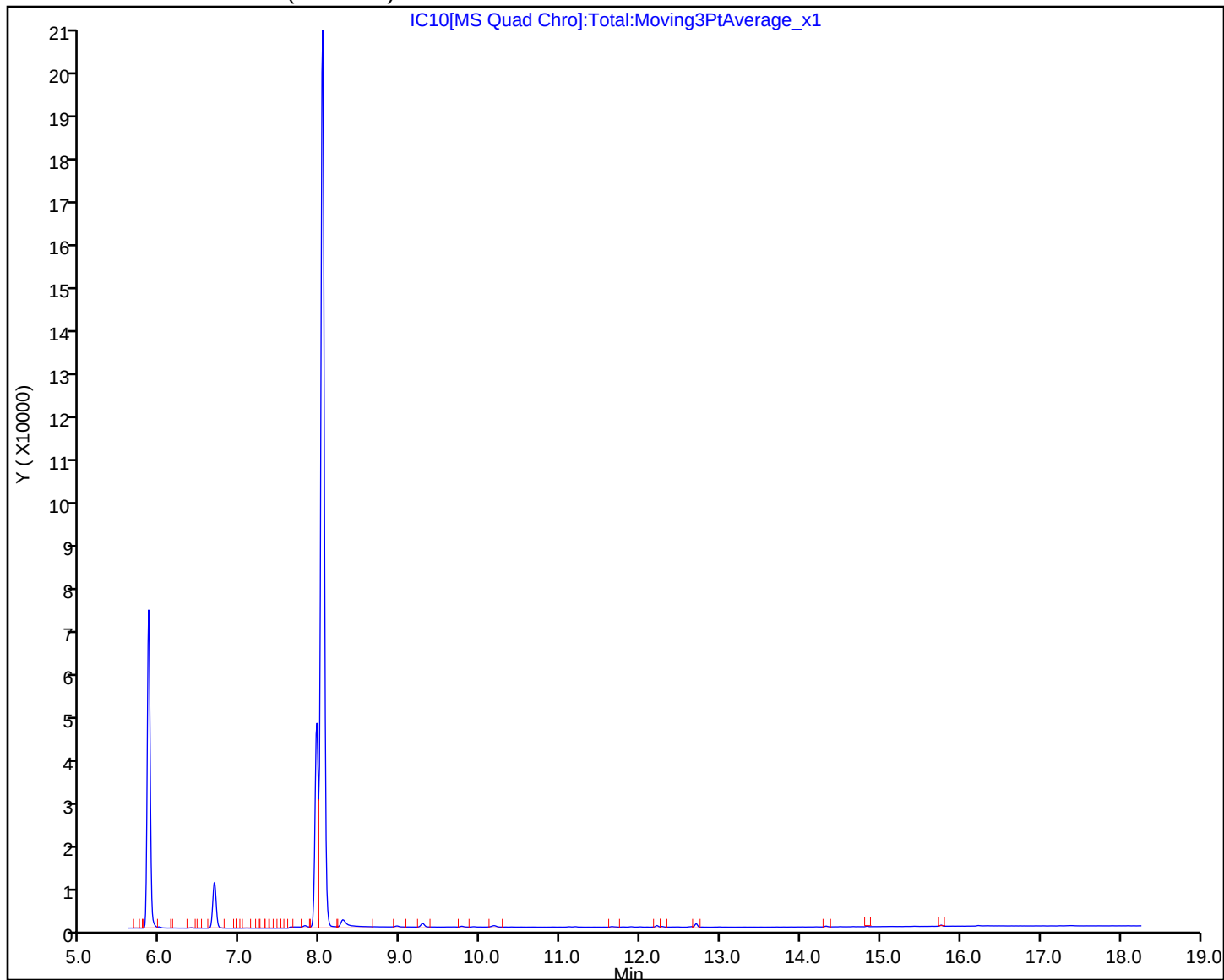
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-DM

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC10.D

Injection Date: 26-Sep-2025 12:34:40

Instrument ID: GCMS-DM

Lims ID: IC 810-161845/13-A

Client ID:

Operator ID: TD

ALS Bottle#:

12

Worklist Smp#: 12

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

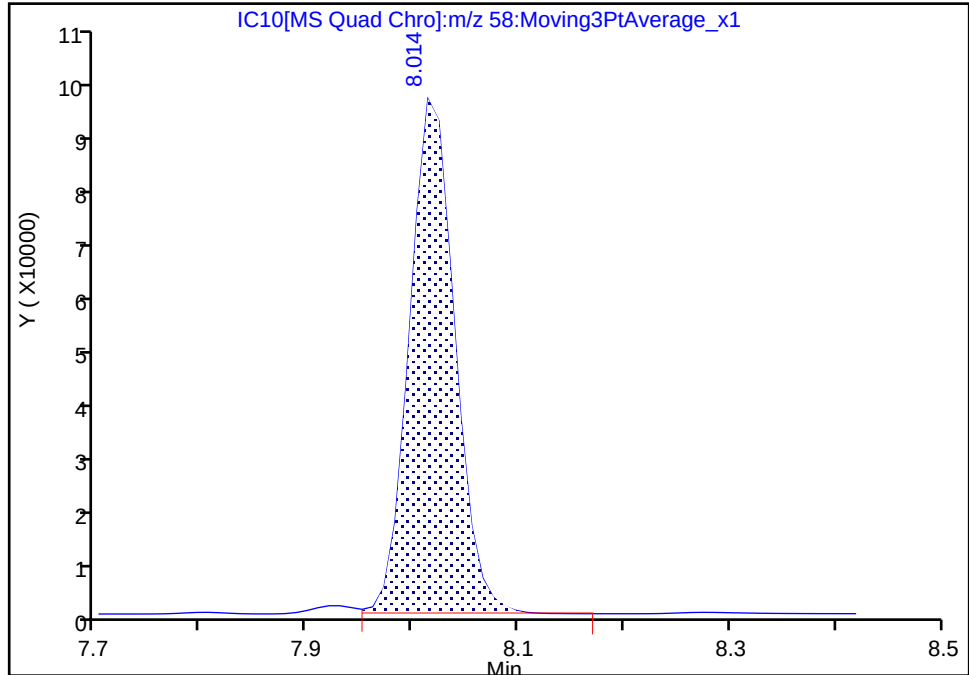
MS Quad

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

Signal: 2

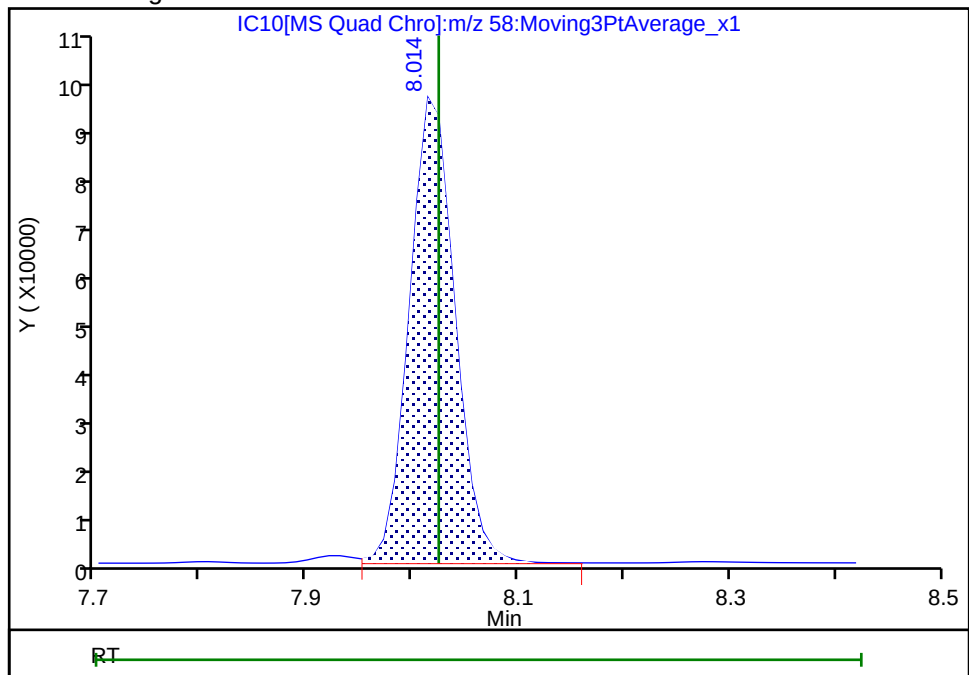
RT: 8.01
Area: 272821
Amount: 3802.8018
Amount Units: ug/l

Processing Integration Results



RT: 8.01
Area: 271565
Amount: 2489.4153
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 26-Sep-2025 14:55:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D
 Lims ID: IC 810-161845/14-A
 Client ID:
 Sample Type: IC Calib Level: 11
 Inject. Date: 26-Sep-2025 12:59:32 ALS Bottle#: 13 Worklist Smp#: 43
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041857-013
 Misc. Info.: IC 810-161845/14-A
 Operator ID: TD Instrument ID: GCMS-DM
 Sublist: chrom-522_GCMS-DM*sub3
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\522_GCMS-DM.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:07:59 Calib Date: 26-Sep-2025 12:59:32
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 26-Sep-2025 14:55:40

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	5.847	5.862	-0.015	25	89112	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	7.952	7.952	0.000	0	65600	500.0	478.7	
11 1,4-Dioxane	88	8.025	8.024	0.001	84	712323	5000.0	5032.1	M
10 BFB									

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

O-522BFBSUB_00029

Amount Added: 1.00

Units: mL

Run Reagent

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D

Injection Date: 26-Sep-2025 12:59:32

Instrument ID: GCMS-DM

Lims ID: IC 810-161845/14-A

Client ID:

Operator ID: TD

ALS Bottle#: 13

Worklist Smp#: 43

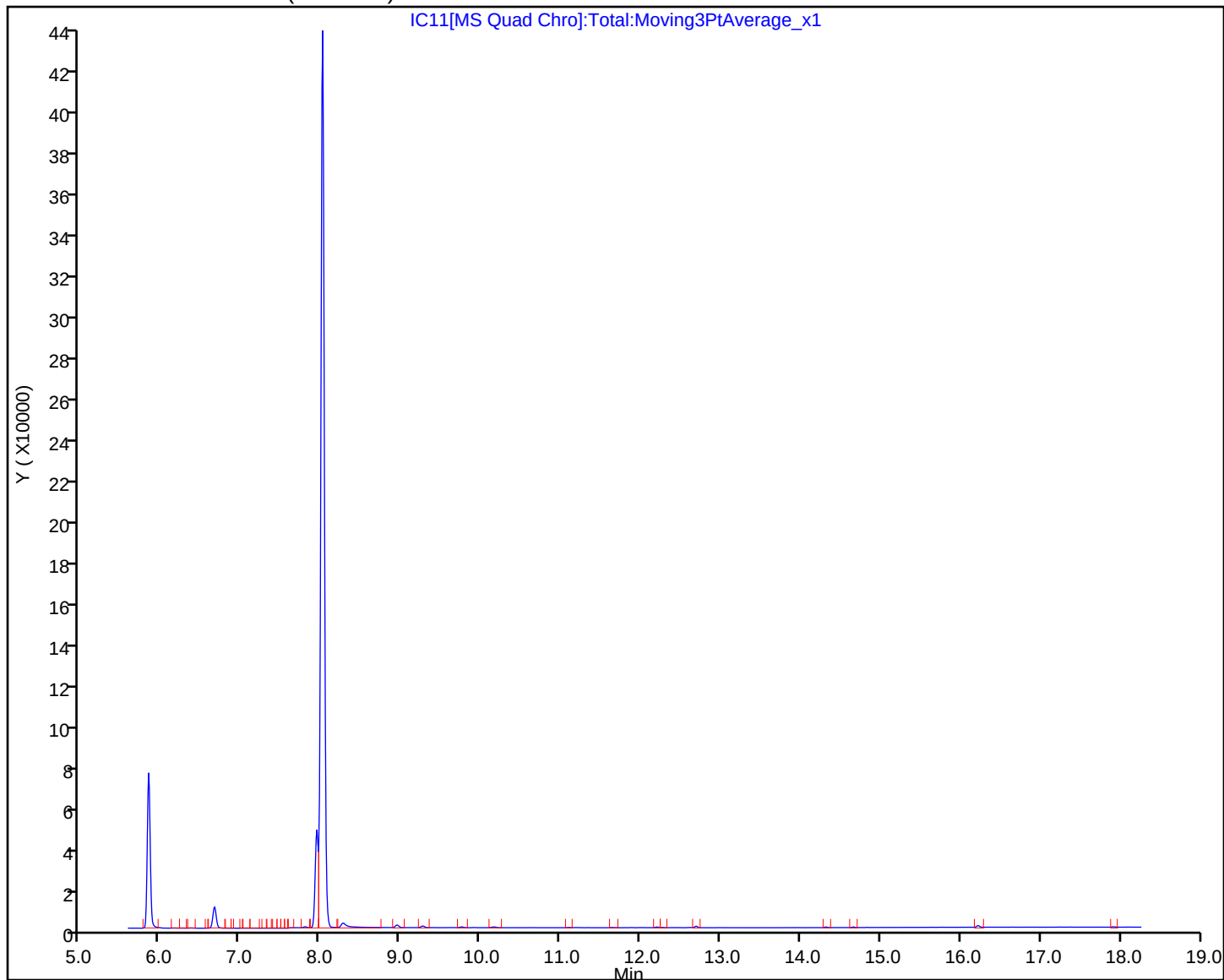
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-DM

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D

Injection Date: 26-Sep-2025 12:59:32

Instrument ID: GCMS-DM

Lims ID: IC 810-161845/14-A

Client ID:

Operator ID: TD

ALS Bottle#:

13

Worklist Smp#:

43

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

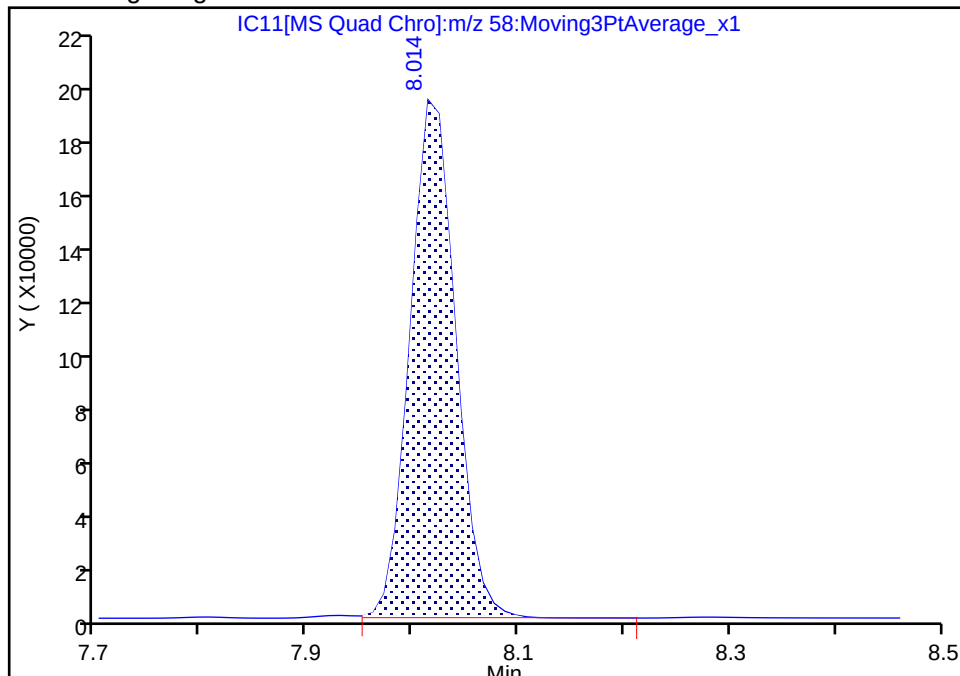
MS Quad

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

Signal: 2

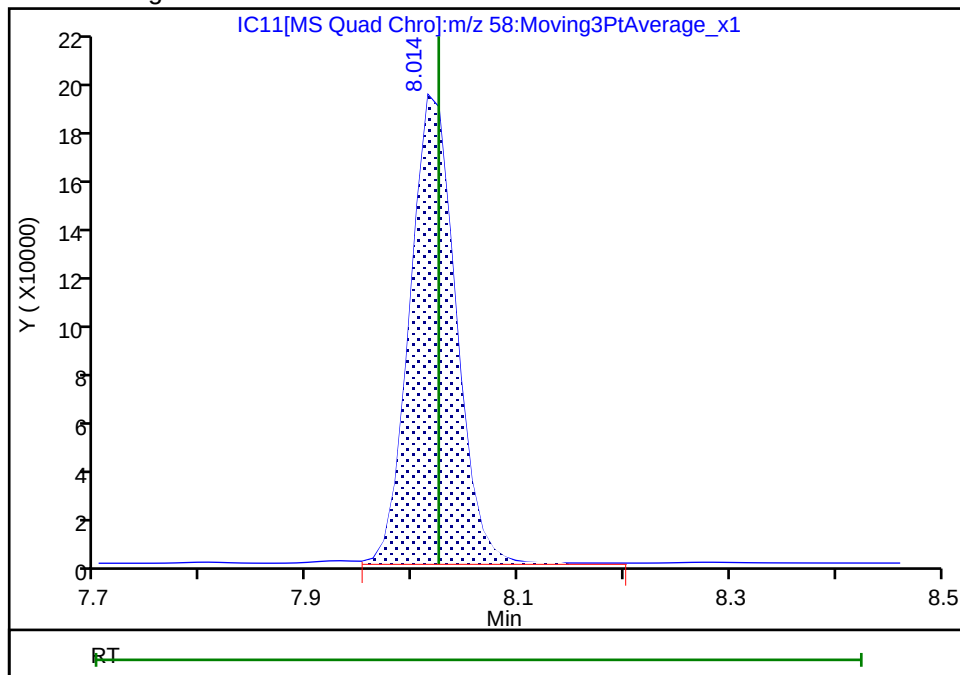
RT: 8.01
Area: 575138
Amount: 5004.1240
Amount Units: ug/l

Processing Integration Results



RT: 8.01
Area: 573539
Amount: 5032.1287
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 26-Sep-2025 14:55:38 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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

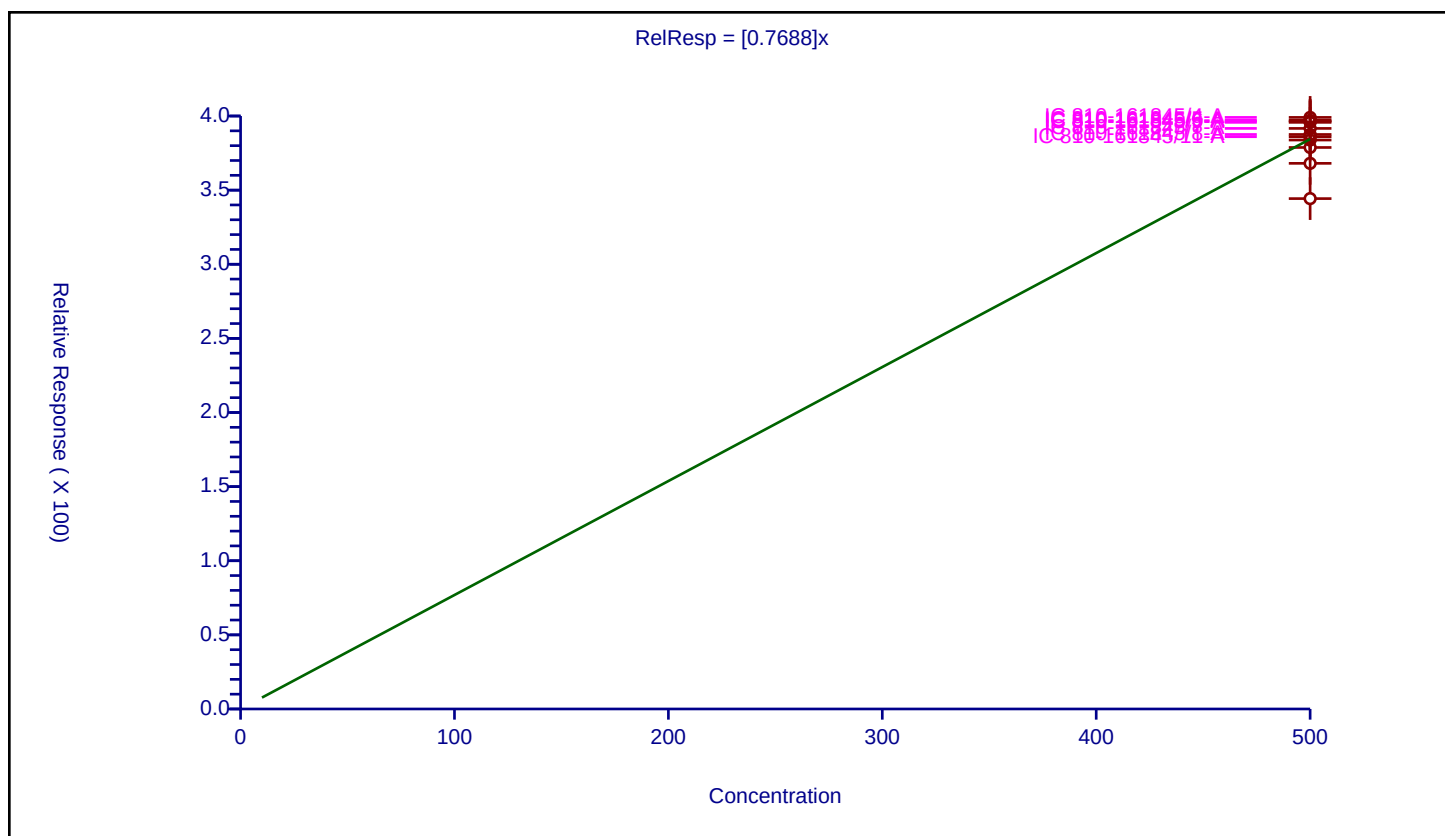
Curve Coefficients

Intercept: 0
Slope: 0.7688

Error Coefficients

Relative Standard Deviation: 4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 810-161845/4-A	500.0	399.067166	500.0	89941.0	0.798134	Y
2	IC 810-161845/5-A	500.0	397.097892	500.0	89211.0	0.794196	Y
3	IC 810-161845/6-A	500.0	396.530232	500.0	92254.0	0.79306	Y
4	IC 810-161845/7-A	500.0	391.632586	500.0	93649.0	0.783265	Y
5	IC 810-161845/8-A	500.0	387.553985	500.0	89145.0	0.775108	Y
6	IC 810-161845/9-A	500.0	395.721576	500.0	91903.0	0.791443	Y
7	ICISAV 810-161845/10-A	500.0	344.293867	500.0	84637.0	0.688588	Y
8	IC 810-161845/11-A	500.0	386.019823	500.0	88182.0	0.77204	Y
9	IC 810-161845/12-A	500.0	378.77565	500.0	90448.0	0.757551	Y
10	IC 810-161845/13-A	500.0	383.793018	500.0	85167.0	0.767586	Y
11	IC 810-161845/14-A	500.0	368.076129	500.0	89112.0	0.736152	Y



Calibration

/ 1,4-Dioxane

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

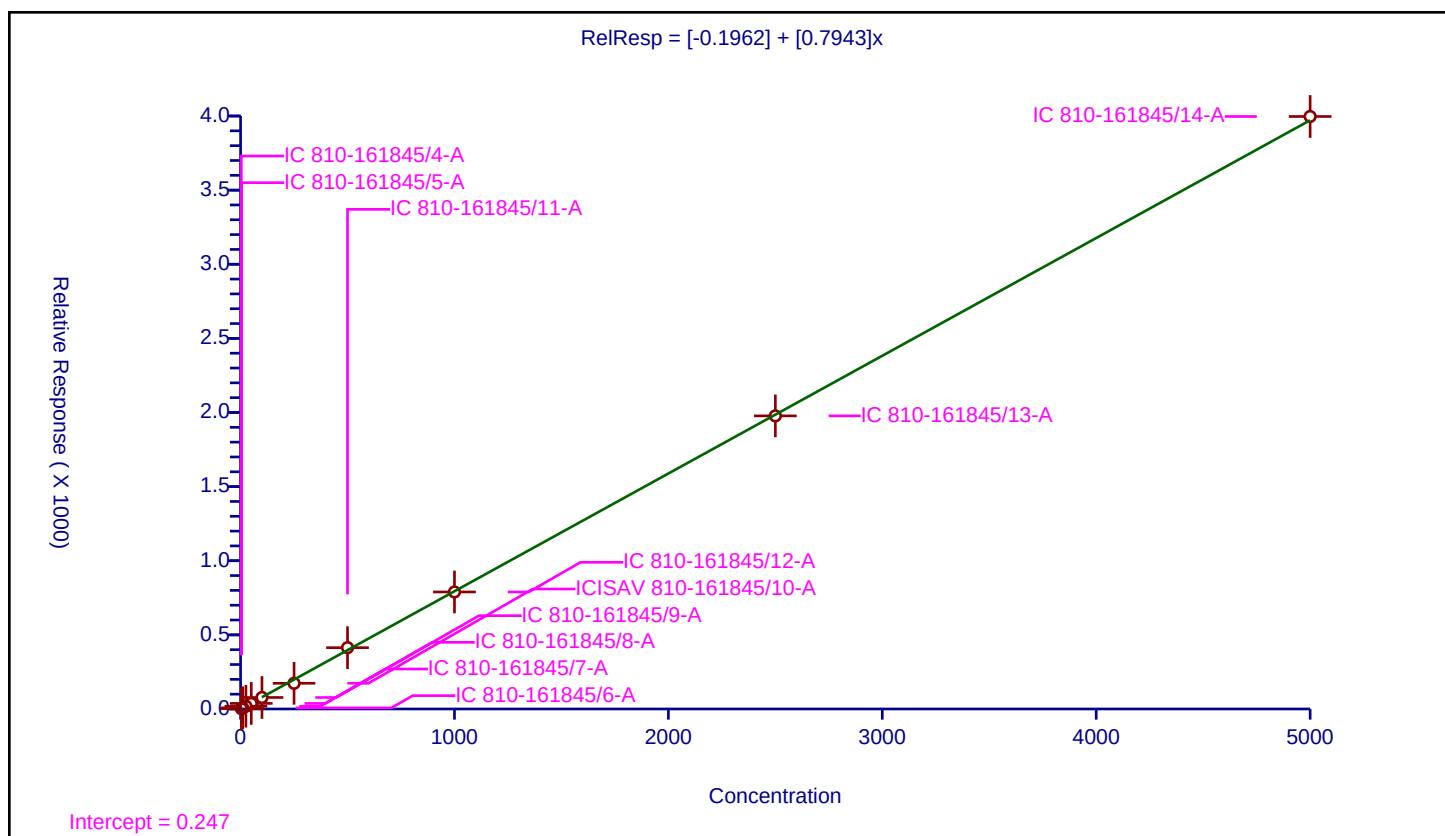
Curve Coefficients

Intercept: -0.1962
 Slope: 0.7943

Error Coefficients

Relative Standard Deviation: 7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 810-161845/4-A	3.5	2.935258	500.0	89941.0	0.838645	Y
2	IC 810-161845/5-A	5.0	4.203518	500.0	89211.0	0.840704	Y
3	IC 810-161845/6-A	10.0	7.598587	500.0	92254.0	0.759859	Y
4	IC 810-161845/7-A	25.0	18.462557	500.0	93649.0	0.738502	Y
5	IC 810-161845/8-A	50.0	37.668966	500.0	89145.0	0.753379	Y
6	IC 810-161845/9-A	100.0	77.59812	500.0	91903.0	0.775981	Y
7	ICISAV 810-161845/10-A	250.0	173.245744	500.0	84637.0	0.692983	Y
8	IC 810-161845/11-A	500.0	413.723889	500.0	88182.0	0.827448	Y
9	IC 810-161845/12-A	1000.0	789.3928	500.0	90448.0	0.789393	Y
10	IC 810-161845/13-A	2500.0	1977.127291	500.0	85167.0	0.790851	Y
11	IC 810-161845/14-A	5000.0	3996.784945	500.0	89112.0	0.799357	Y



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-167031-1
SDG No.: _____
Lab Sample ID: ICV 810-161845/15-A Calibration Date: 09/26/2025 13:49
Instrument ID: GCMS-DM Calib Start Date: 09/26/2025 08:48
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calib End Date: 09/26/2025 12:59
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		0.8614		271	250	109	80-120
1,4-Dioxane-d8 (Surr)	Ave	0.7688	0.7451		485	500	97	70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\ICV.D
 Lims ID: ICV 810-161845/15-A
 Client ID:
 Sample Type: ICV
 Inject. Date: 26-Sep-2025 13:49:17 ALS Bottle#: 14 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041857-013
 Misc. Info.: IC 810-161845/14-A
 Operator ID: TD Instrument ID: GCMS-DM
 Sublist: chrom-522_GCMS-DM*sub3
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\522_GCMS-DM.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:07:59 Calib Date: 26-Sep-2025 12:59:32
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 26-Sep-2025 14:55:16

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	5.854	5.862	-0.008	25	85811	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	7.962	7.952	0.010	0	63935	500.0	484.5	
11 1,4-Dioxane	88	8.035	8.024	0.011	84	36960	250.0	271.4	M
10 BFB									

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

O-522BFBSUB_00029

Amount Added: 1.00

Units: mL

Run Reagent

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\ICV.D

Injection Date: 26-Sep-2025 13:49:17

Instrument ID: GCMS-DM

Lims ID: ICV 810-161845/15-A

Client ID:

Operator ID: TD

ALS Bottle#: 14

Worklist Smp#: 13

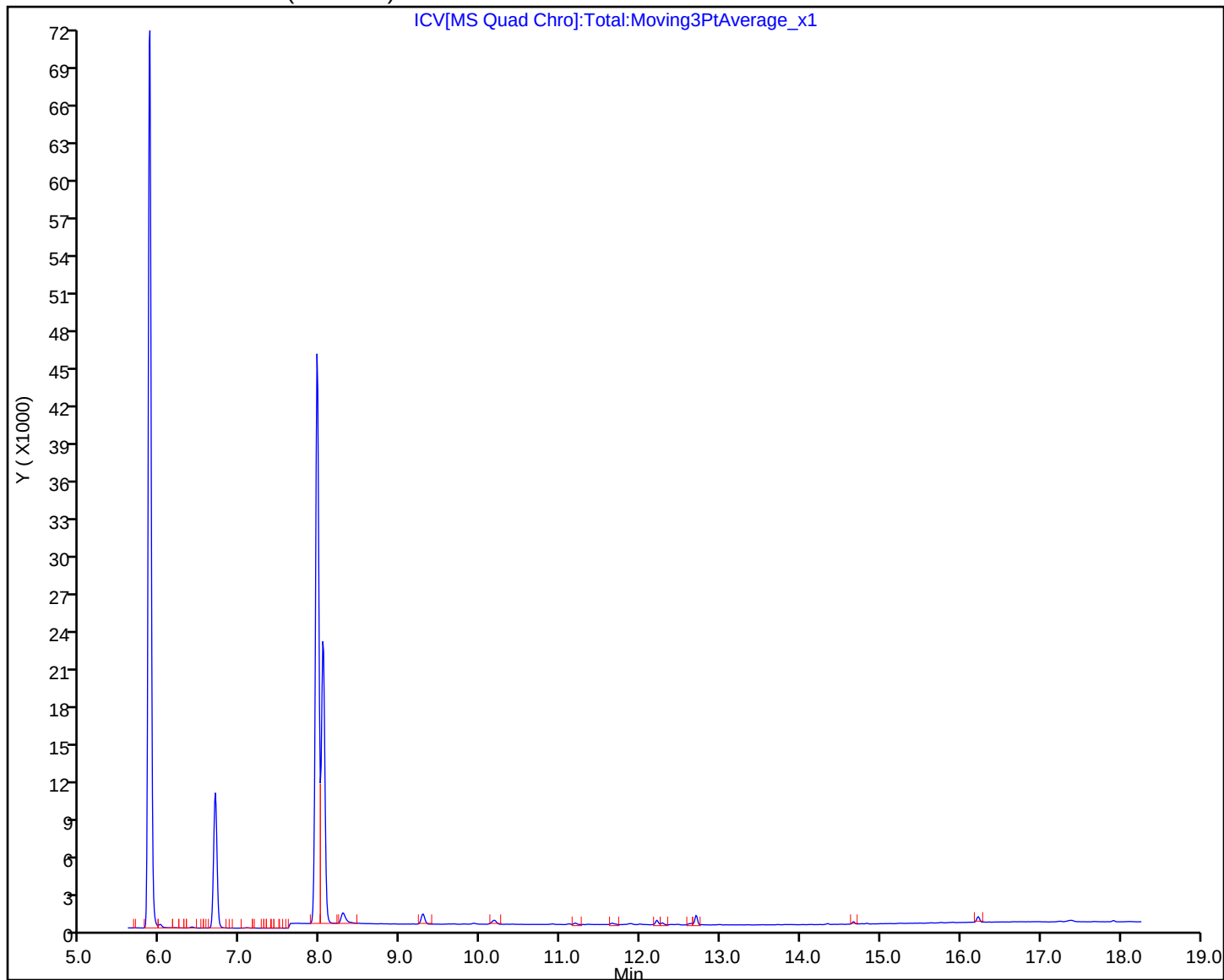
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-DM

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\ICV.D

Injection Date: 26-Sep-2025 13:49:17

Instrument ID: GCMS-DM

Lims ID: ICV 810-161845/15-A

Client ID:

Operator ID: TD

ALS Bottle#:

14

Worklist Smp#: 13

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

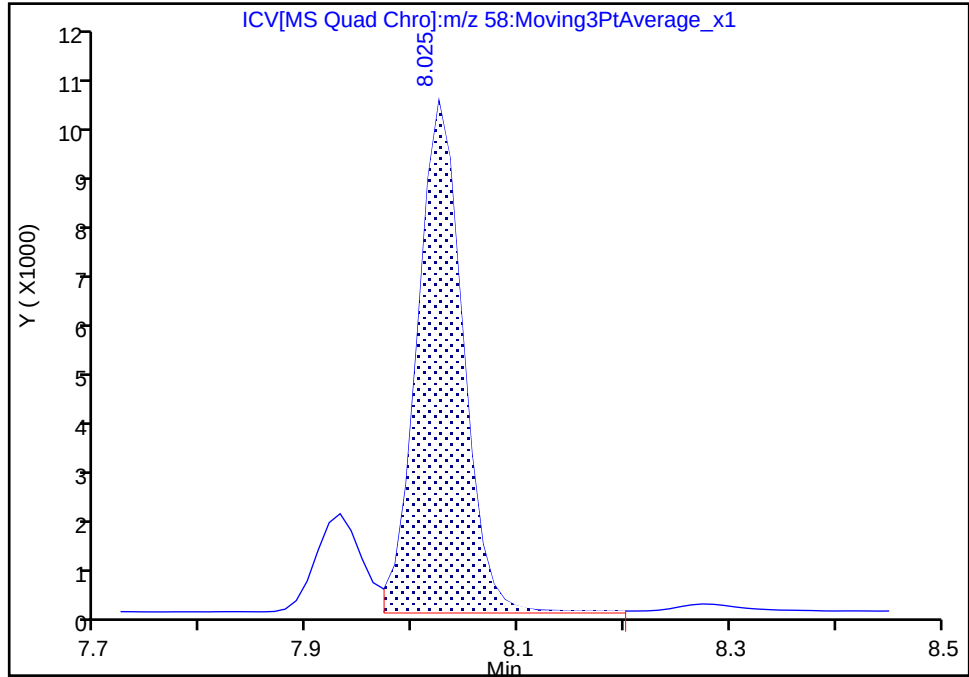
MS Quad

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

Signal: 2

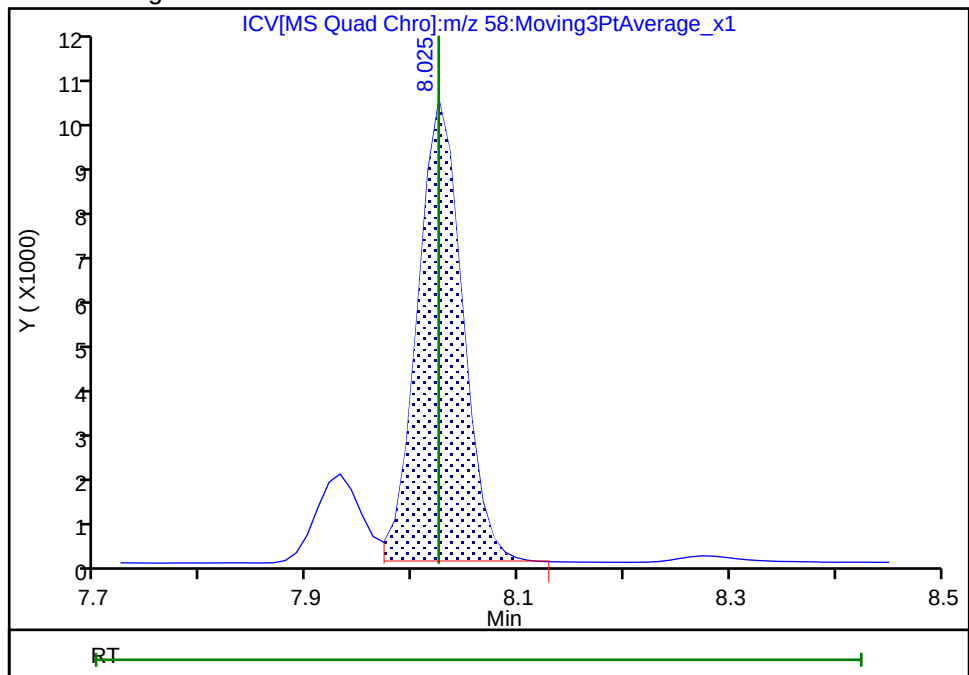
RT: 8.02
Area: 30708
Amount: 270.8127
Amount Units: ug/l

Processing Integration Results



RT: 8.02
Area: 29845
Amount: 271.3776
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 26-Sep-2025 14:55:12 -04:00:00 (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.: 810-167031-1
SDG No.: _____
Lab Sample ID: CCVLIS 810-163891/1- Calibration Date: 10/09/2025 13:46
Instrument ID: GCMS-DM Calib Start Date: 09/26/2025 08:48
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calib End Date: 09/26/2025 12:59
Lab File ID: CCVL1.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
1,4-Dioxane	Lin1		0.9281		4.34	3.50	124	50-150
1,4-Dioxane-d8 (Surr)	Ave	0.7688	0.7511		488	500	98	70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\CCVL1.D
 Lims ID: CCVLIS 810-163891/1-A
 Client ID:
 Sample Type: CCVLIS
 Inject. Date: 09-Oct-2025 13:46:43 ALS Bottle#: 31 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0042369-001
 Misc. Info.: CCVLIS 810-163891/1-A
 Operator ID: TD Instrument ID: GCMS-DM
 Sublist: chrom-522_GCMS-DM*sub3
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\522_GCMS-DM.m
 Limit Group: MSS - 522
 Last Update: 10-Oct-2025 08:30:14 Calib Date: 26-Sep-2025 12:59:32
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1605

First Level Reviewer: JH8B

Date: 10-Oct-2025 08:23:43

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	5.847	5.854	-0.007	24	85582	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	7.952	7.952	0.000	0	64282	500.0	488.5	
11 1,4-Dioxane	88	8.025	8.025	0.001	84	556	3.50	4.34	M
10 BFB									

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

O-522BFBSUB_00029

Amount Added: 1.00

Units: mL

Run Reagent

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\CCVL1.D

Injection Date: 09-Oct-2025 13:46:43

Instrument ID: GCMS-DM

Lims ID: CCVLIS 810-163891/1-A

Client ID:

Operator ID: TD

ALS Bottle#: 31

Worklist Smp#: 1

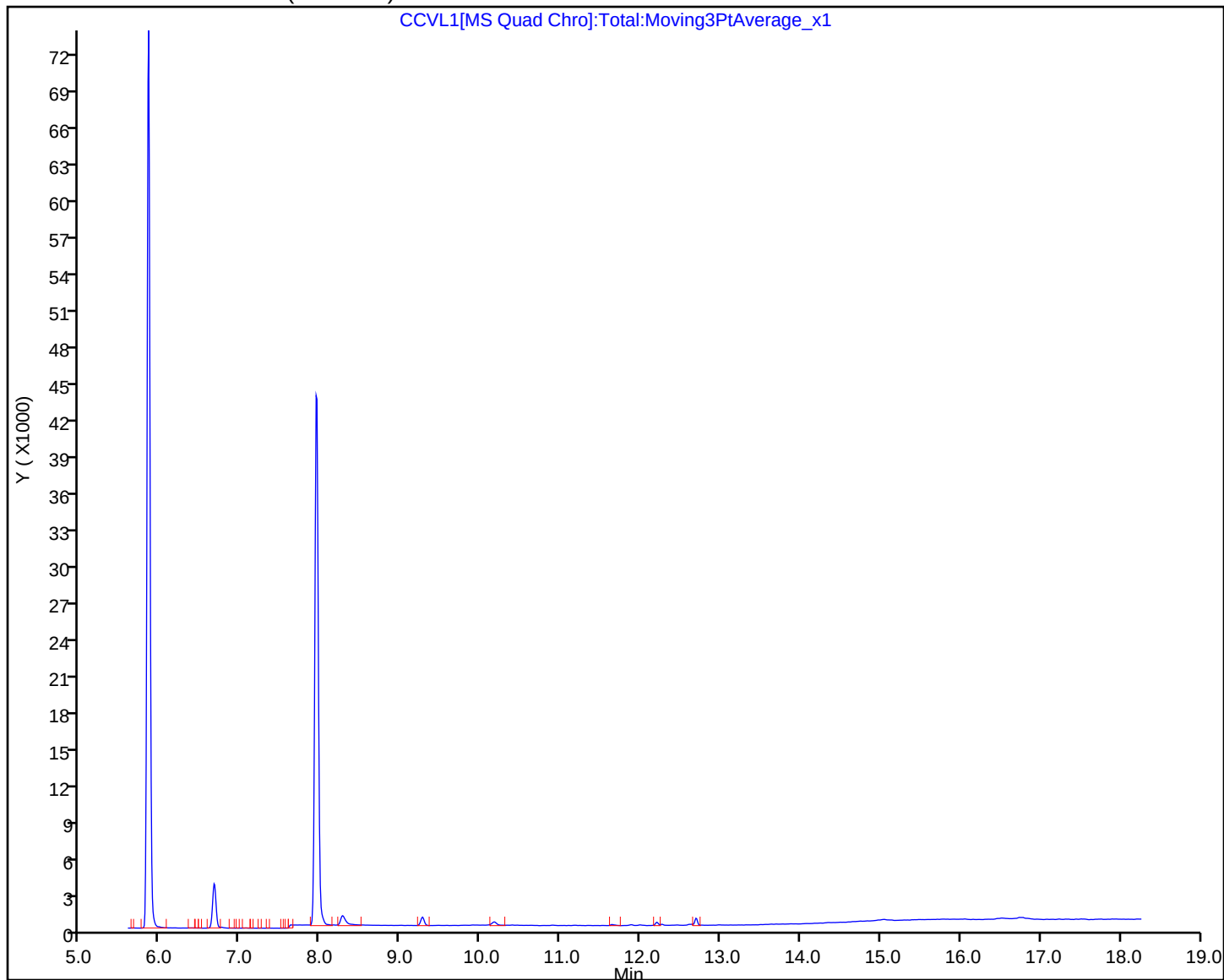
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-DM

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\CCVL1.D

Injection Date: 09-Oct-2025 13:46:43

Instrument ID: GCMS-DM

Lims ID: CCVLIS 810-163891/1-A

Client ID:

Operator ID: TD

ALS Bottle#: 31

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-DM

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)

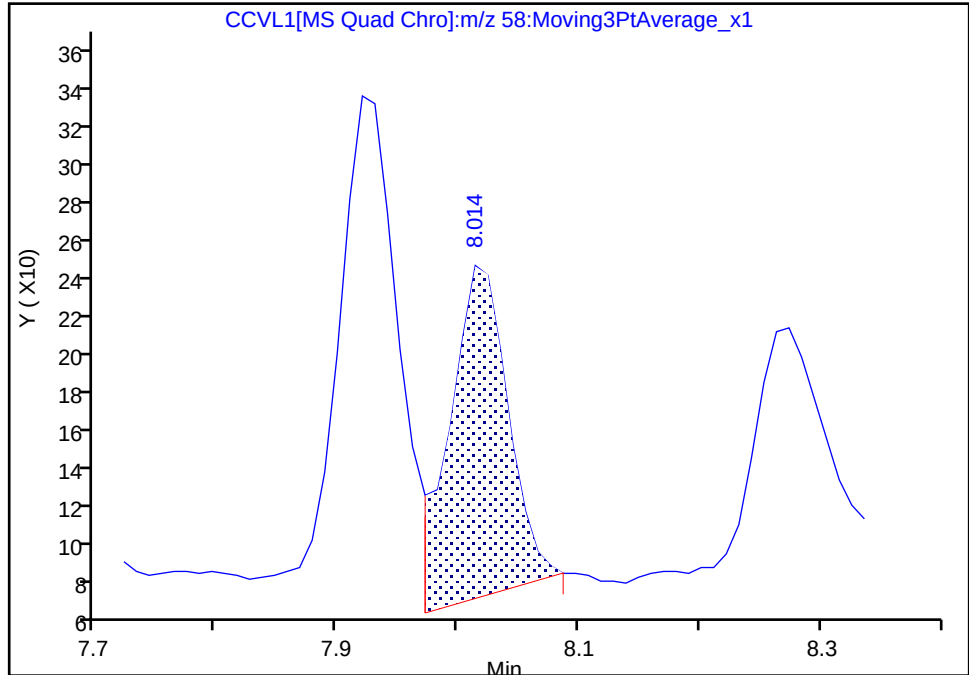
Detector: MS Quad

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

Signal: 2

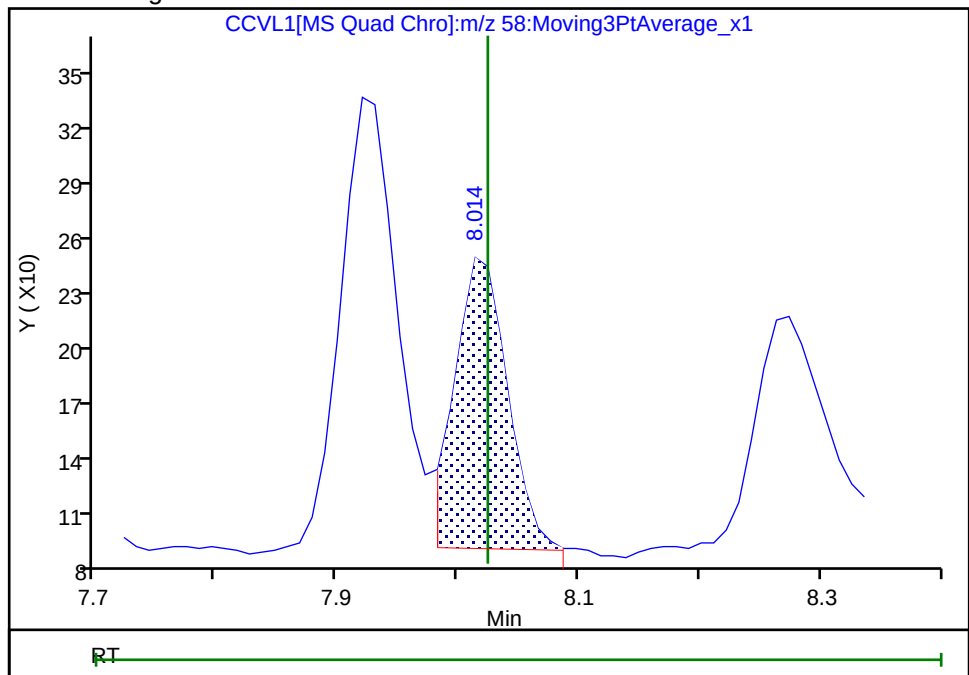
RT: 8.01
Area: 589
Amount: 4.873515
Amount Units: ug/l

Processing Integration Results



RT: 8.01
Area: 489
Amount: 4.336570
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 10-Oct-2025 08:23:04 -04:00:00 (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.: 810-167031-1
SDG No.: _____
Lab Sample ID: CCVIS 810-163891/2-A Calibration Date: 10/09/2025 19:37
Instrument ID: GCMS-DM Calib Start Date: 09/26/2025 08:48
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calib End Date: 09/26/2025 12:59
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		0.8348		263	250	105	70-130
1,4-Dioxane-d8 (Surr)	Ave	0.7688	0.7315		476	500	95	70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\CCVM.D
Lims ID: CCVIS 810-163891/2-A
Client ID:
Sample Type: CCVIS
Inject. Date: 09-Oct-2025 19:37:16 ALS Bottle#: 44 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0042369-014
Misc. Info.: CCVIS 810-163891/2-A
Operator ID: TD Instrument ID: GCMS-DM
Sublist: chrom-522_GCMS-DM*sub3
Raw Data: Smoothed

Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\522_GCMS-DM.m
Limit Group: MSS - 522
Last Update: 10-Oct-2025 08:30:24 Calib Date: 26-Sep-2025 12:59:32
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D

Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1605

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	5.854	5.854	0.000	25	92054	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	7.952	7.952	0.000	0	67338	500.0	475.7	
11 1,4-Dioxane	88	8.025	8.025	0.000	85	38423	250.0	263.0	
10 BFB									

Reagents:

O-522BFBSUB_00029

Amount Added: 1.00

Units: mL

Run Reagent

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\CCVM.D

Injection Date: 09-Oct-2025 19:37:16

Instrument ID: GCMS-DM

Lims ID: CCVIS 810-163891/2-A

Client ID:

Operator ID: TD

ALS Bottle#: 44

Worklist Smp#: 14

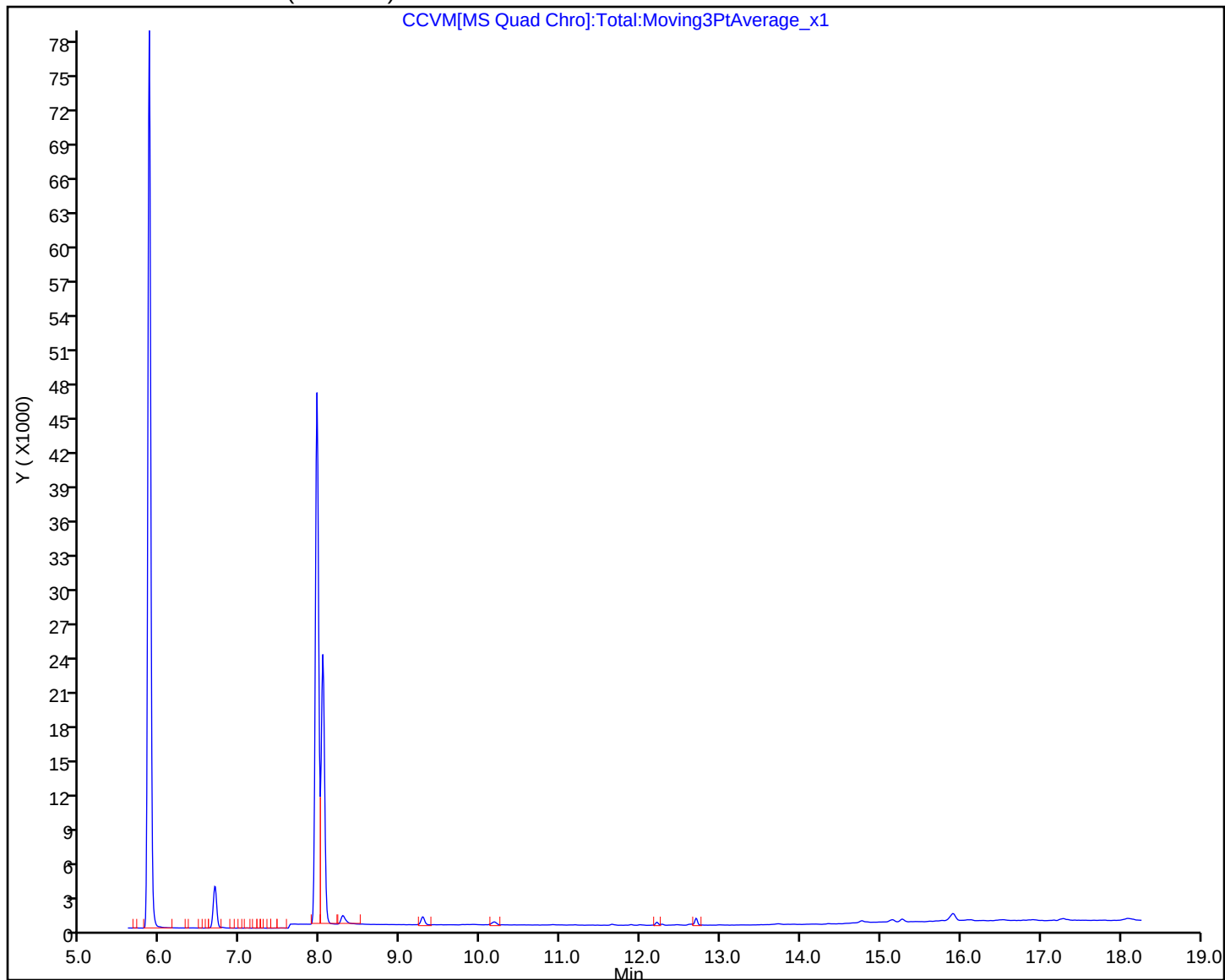
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-DM

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 <u>Bend</u> SDG No.: _____ Client Sample ID: _____ Matrix: <u>Drinking Water</u> Analysis Method: <u>522</u> Extract. Method: <u>522</u> Sample wt/vol: <u>100 (mL)</u> Con. Extract Vol.: <u>2 (mL)</u> Injection Volume: <u>1 (uL)</u> % Moisture: _____ % Solids: _____ Cleanup Factor: _____ Analysis Batch No.: <u>163931</u> Preparation Batch No.: <u>163879</u>	Job No.: <u>810-167031-1</u> Lab Sample ID: <u>MBL 810-163879/1-A</u> Lab File ID: <u>MB1.D</u> Date Collected: _____ Date Extracted: <u>10/09/2025 09:10</u> Date Analyzed: <u>10/09/2025 14:36</u> Dilution Factor: <u>1</u> GC Column: <u>CPSelect 624 MS ID: 0.25 (mm)</u> GPC Cleanup: (Y/N) <u>N</u> Level: (low/med) <u>Low</u> Units: <u>ug/L</u> Instrument ID: <u>GCMS-DM</u>
--	--

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8 (Surr)	84		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\MB1.D
 Lims ID: MBL 810-163879/1-A
 Client ID:
 Sample Type: MBL
 Inject. Date: 09-Oct-2025 14:36:52 ALS Bottle#: 32 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0042369-002
 Misc. Info.: MBL 810-163879/1-A
 Operator ID: TD Instrument ID: GCMS-DM
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\522_GCMS-DM.m
 Limit Group: MSS - 522
 Last Update: 10-Oct-2025 08:30:14 Calib Date: 26-Sep-2025 12:59:32
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1605

First Level Reviewer: JH8B

Date: 10-Oct-2025 08:23:58

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	5.839	5.854	-0.015	27	93427	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	7.952	7.952	0.000	0	60498	500.0	421.1	
11 1,4-Dioxane	88		8.025					ND	U
10 BFB									

QC Flag Legend

Processing Flags

Review Flags

U - Marked Undetected

Reagents:

O-522BFBSUB_00029

Amount Added: 1.00

Units: mL

Run Reagent

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\MB1.D

Injection Date: 09-Oct-2025 14:36:52

Instrument ID: GCMS-DM

Lims ID: MBL 810-163879/1-A

Client ID:

Operator ID: TD

ALS Bottle#: 32

Worklist Smp#: 2

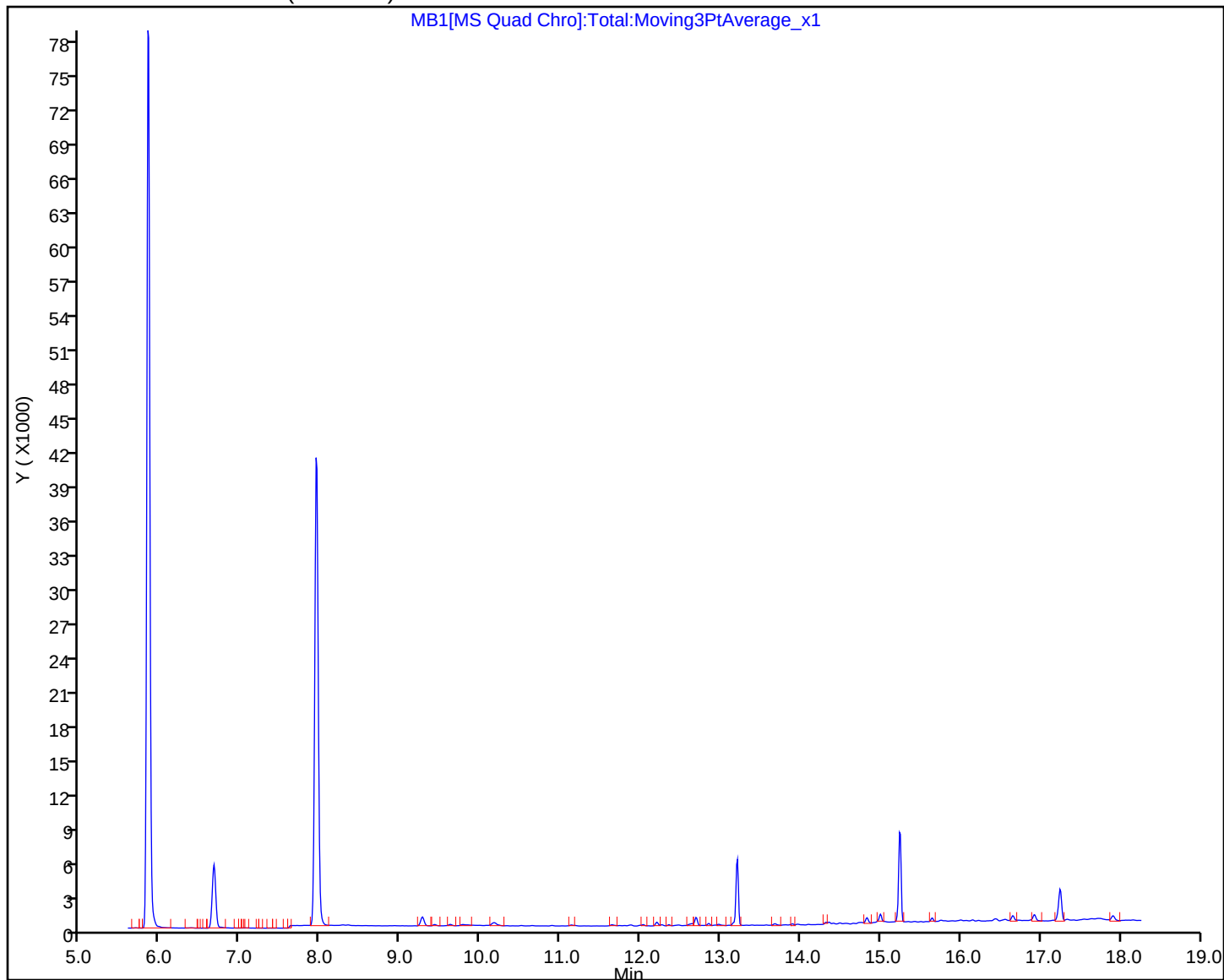
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-DM

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-DM\20251009-42369.b\MB1.D
Lims ID: MBL 810-163879/1-A
Client ID:
Sample Type: MBL
Inject. Date: 09-Oct-2025 14:36:52 ALS Bottle#: 32 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0042369-002
Misc. Info.: MBL 810-163879/1-A
Operator ID: TD Instrument ID: GCMS-DM
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\522_GCMS-DM.m
Limit Group: MSS - 522
Last Update: 10-Oct-2025 08:30:14 Calib Date: 26-Sep-2025 12:59:32
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1605

First Level Reviewer: JH8B

Date: 10-Oct-2025 08:23:58

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	421.1	84.22

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\MB1.D

Injection Date: 09-Oct-2025 14:36:52

Instrument ID: GCMS-DM

Lims ID: MBL 810-163879/1-A

Client ID:

Operator ID: TD

ALS Bottle#:

32

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-DM

Limit Group:

MSS - 522

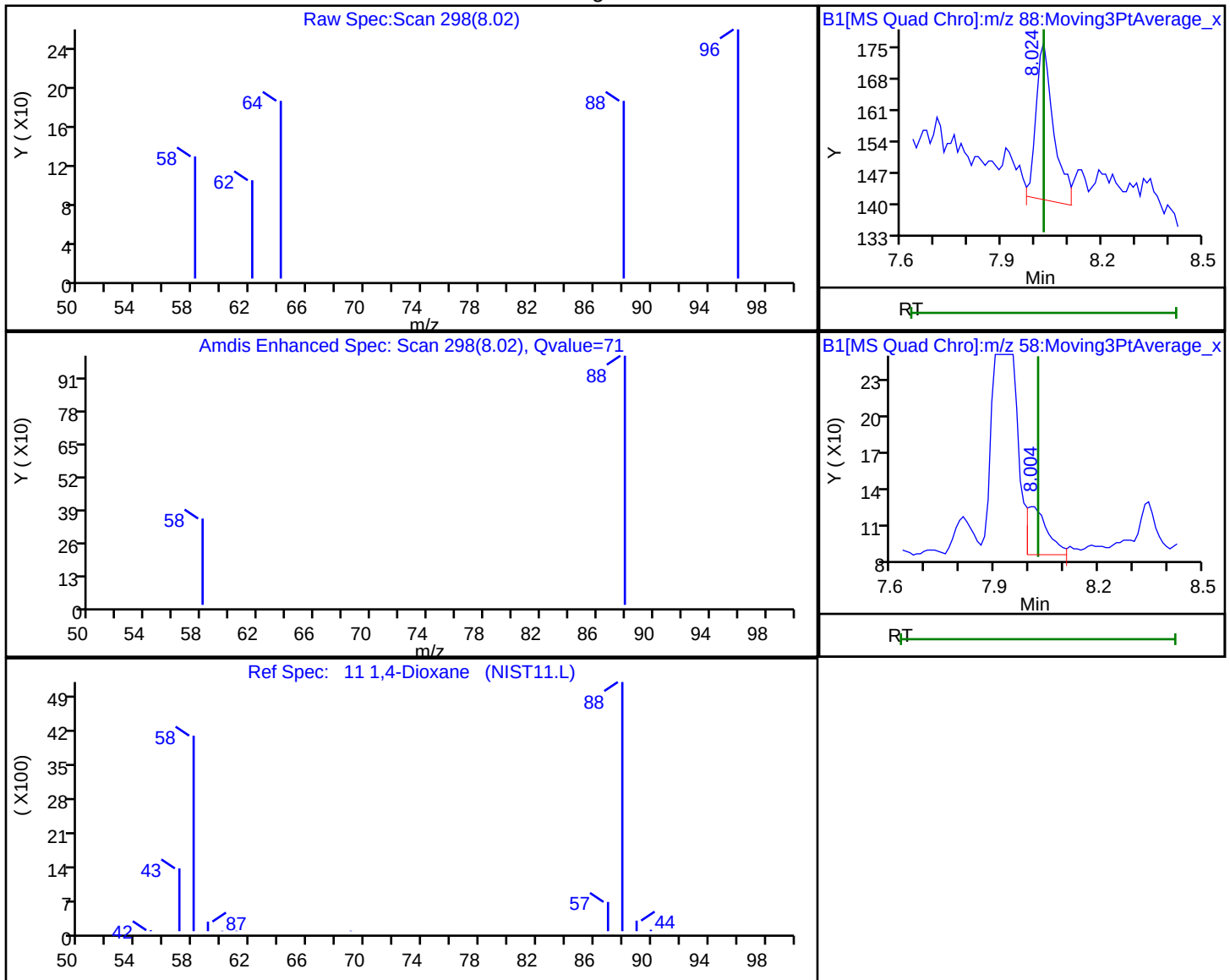
Column: CP Select 624 MS (0.25 mm)

Detector

MS Quad

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

Processing Results



RT	Mass	Response	Amount
8.02	88.00	132	1.136346
8.00	58.00	166	

Reviewer: JH8B, 10-Oct-2025 08:23:58 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Eaton Analytical South Bend
Job No.: 810-167031-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 810-163879/3-A

Matrix: Drinking Water Lab File ID: LCS.D

Analysis Method: 522 Date Collected: _____

Extract. Method: 522 Date Extracted: 10/09/2025 09:10

Sample wt/vol: 100 (mL) Date Analyzed: 10/09/2025 15:26

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.: 163931 Units: ug/L

Preparation Batch No.: 163879 Instrument ID: GCMS-DM

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	45.7		0.070	0.062

CAS NO.	SURROGATE	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8 (Surr)	86		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\LCS.D
Lims ID: LCS 810-163879/3-A
Client ID:
Sample Type: LCS
Inject. Date: 09-Oct-2025 15:26:56 ALS Bottle#: 34 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0042369-004
Misc. Info.: LCS 810-163879/3-A
Operator ID: TD Instrument ID: GCMS-DM
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\522_GCMS-DM.m
Limit Group: MSS - 522
Last Update: 10-Oct-2025 08:30:14 Calib Date: 26-Sep-2025 12:59:32
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1605

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	5.846	5.854	-0.008	24	93938	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	7.952	7.952	0.000	0	62095	500.0	429.9	
11 1,4-Dioxane	88	8.024	8.025	0.000	84	341108	2500.0	2286.1	

10 BFB

Reagents:

O-522BFBSUB_00029

Amount Added: 1.00

Units: mL

Run Reagent

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\LCS.D

Injection Date: 09-Oct-2025 15:26:56

Instrument ID: GCMS-DM

Lims ID: LCS 810-163879/3-A

Client ID:

Operator ID: TD

ALS Bottle#: 34

Worklist Smp#: 4

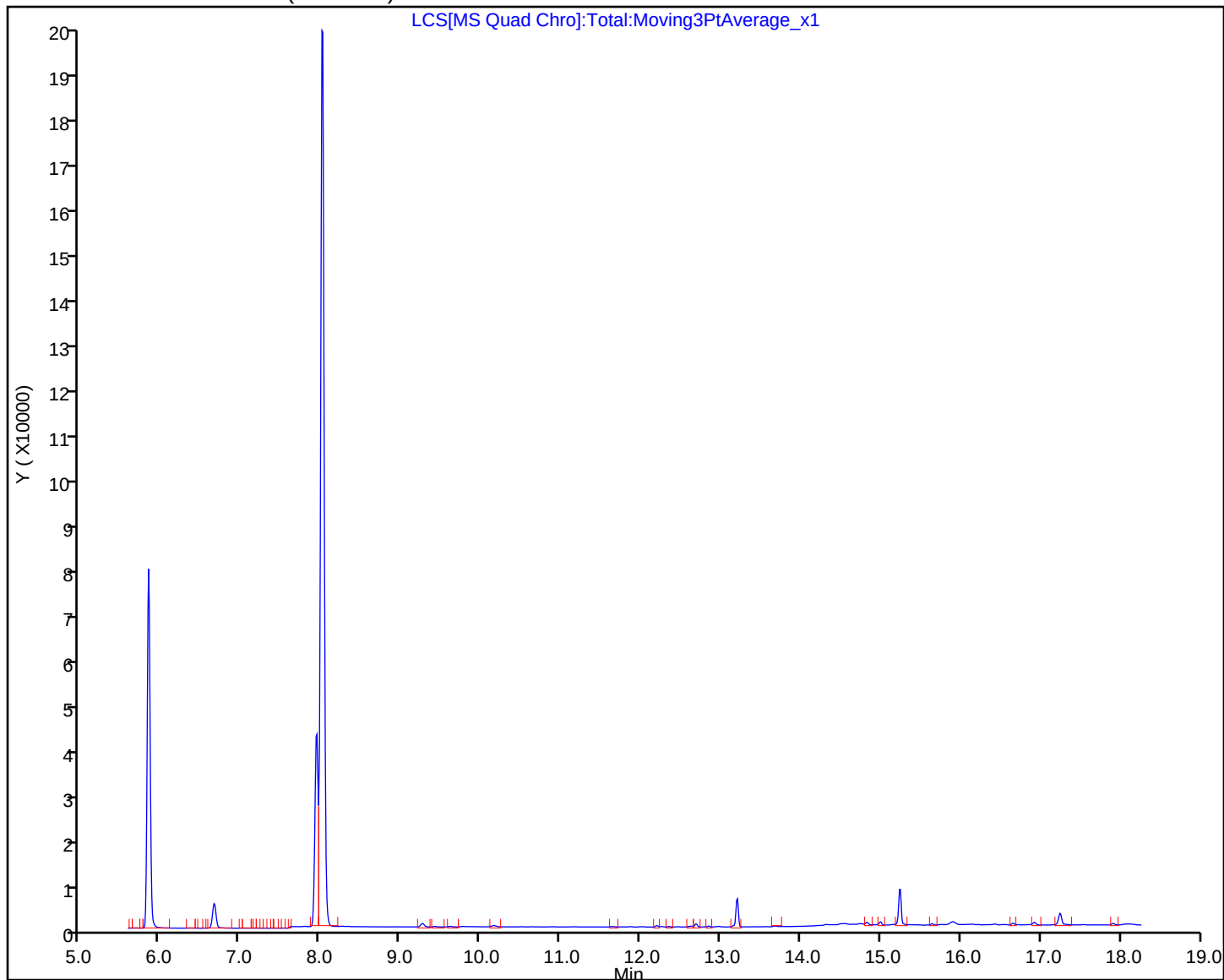
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-DM

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-DM\20251009-42369.b\LCS.D
Lims ID: LCS 810-163879/3-A
Client ID:
Sample Type: LCS
Inject. Date: 09-Oct-2025 15:26:56 ALS Bottle#: 34 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0042369-004
Misc. Info.: LCS 810-163879/3-A
Operator ID: TD Instrument ID: GCMS-DM
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\522_GCMS-DM.m
Limit Group: MSS - 522
Last Update: 10-Oct-2025 08:30:14 Calib Date: 26-Sep-2025 12:59:32
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1605

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	429.9	85.98

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Eaton Analytical South <u>Bend</u> SDG No.: _____ Client Sample ID: _____ Matrix: <u>Drinking Water</u> Analysis Method: <u>522</u> Extract. Method: <u>522</u> Sample wt/vol: <u>100 (mL)</u> Con. Extract Vol.: <u>2 (mL)</u> Injection Volume: <u>1 (uL)</u> % Moisture: _____ % Solids: _____ Cleanup Factor: _____ Analysis Batch No.: <u>163931</u> Preparation Batch No.: <u>163879</u>	Job No.: <u>810-167031-1</u> Lab Sample ID: <u>LLCS 810-163879/2-A</u> Lab File ID: <u>LLCS1.D</u> Date Collected: _____ Date Extracted: <u>10/09/2025 09:10</u> Date Analyzed: <u>10/09/2025 15:02</u> Dilution Factor: <u>1</u> GC Column: <u>CPSelect 624 MS ID: 0.25 (mm)</u> GPC Cleanup: (Y/N) <u>N</u> Level: (low/med) <u>Low</u> Units: <u>ug/L</u> Instrument ID: <u>GCMS-DM</u>
--	---

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.0798		0.070	0.062

CAS NO.	SURROGATE	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8 (Surr)	83		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\LLCS1.D
 Lims ID: LLCS 810-163879/2-A
 Client ID:
 Sample Type: LLCS
 Inject. Date: 09-Oct-2025 15:02:03 ALS Bottle#: 33 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0042369-003
 Misc. Info.: LLCS 810-163879/2-A
 Operator ID: TD Instrument ID: GCMS-DM
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\522_GCMS-DM.m
 Limit Group: MSS - 522
 Last Update: 10-Oct-2025 08:30:24 Calib Date: 26-Sep-2025 12:59:32
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1605

First Level Reviewer: JH8B

Date: 10-Oct-2025 08:24:29

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	5.847	5.854	-0.007	25	98529	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	7.952	7.952	0.000	0	63040	500.0	416.1	
11 1,4-Dioxane	88	8.025	8.025	0.001	85	586	3.50	3.99	M
10 BFB									

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

O-522BFBSUB_00029

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 10-Oct-2025 08:31:45

Chrom Revision: 2.3 13-Aug-2025 14:00:00

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\LLCS1.D

Injection Date: 09-Oct-2025 15:02:03

Instrument ID: GCMS-DM

Lims ID: LLCS 810-163879/2-A

Client ID:

Operator ID: TD

ALS Bottle#: 33

Worklist Smp#: 3

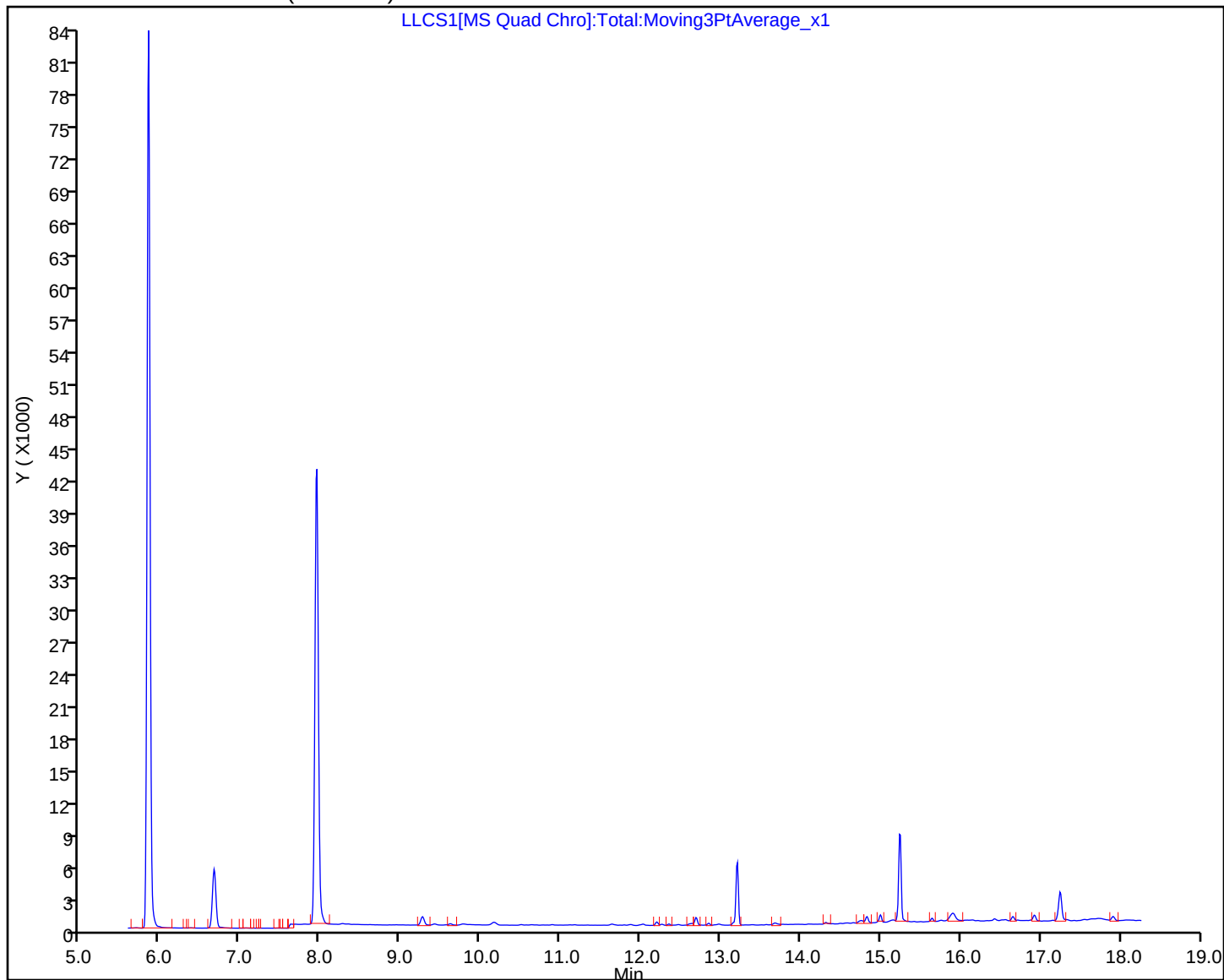
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-DM

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-DM\20251009-42369.b\LLCS1.D
Lims ID: LLCS 810-163879/2-A
Client ID:
Sample Type: LLCS
Inject. Date: 09-Oct-2025 15:02:03 ALS Bottle#: 33 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0042369-003
Misc. Info.: LLCS 810-163879/2-A
Operator ID: TD Instrument ID: GCMS-DM
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\522_GCMS-DM.m
Limit Group: MSS - 522
Last Update: 10-Oct-2025 08:30:24 Calib Date: 26-Sep-2025 12:59:32
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20250925-41857.b\IC11.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1605

First Level Reviewer: JH8B

Date: 10-Oct-2025 08:24:29

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	416.1	83.22

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20251009-42369.b\LLCS1.D

Injection Date: 09-Oct-2025 15:02:03

Instrument ID: GCMS-DM

Lims ID: LLCS 810-163879/2-A

Client ID:

Operator ID: TD

ALS Bottle#:

33

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

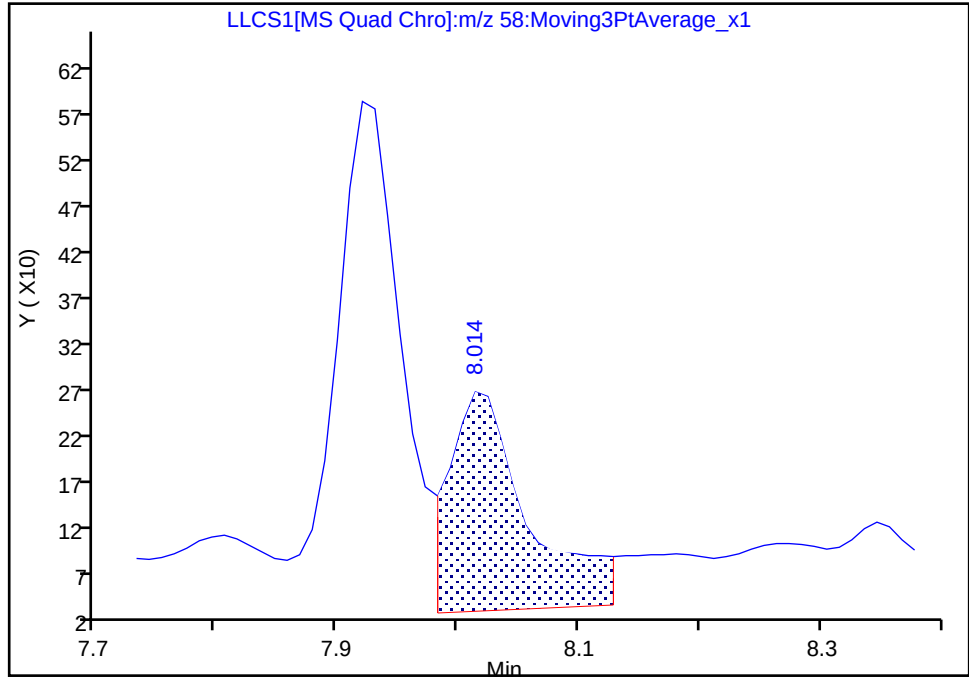
MS Quad

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

Signal: 2

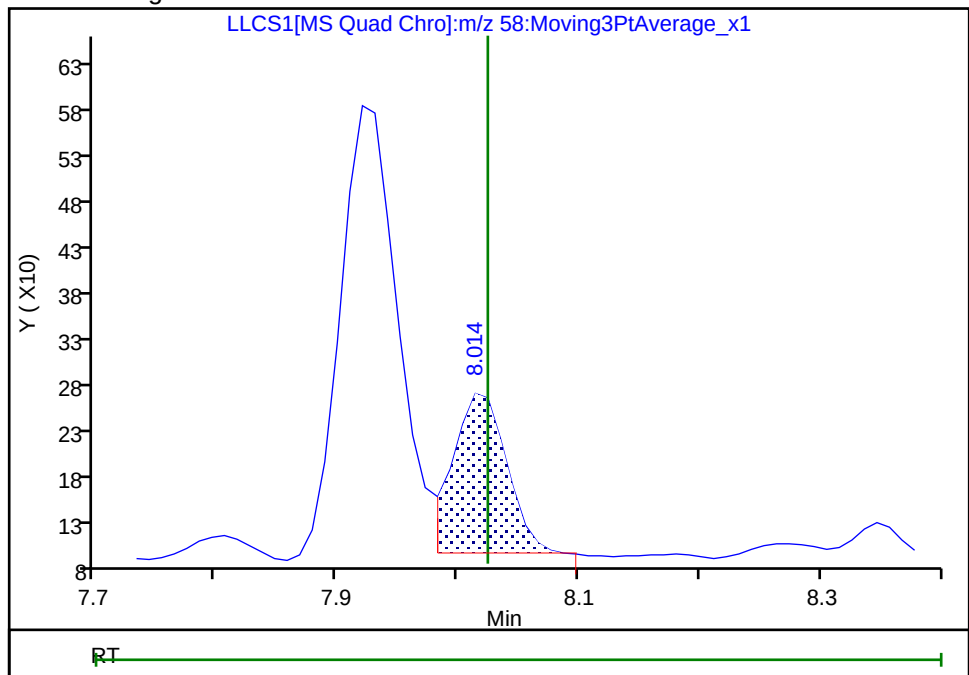
RT: 8.01
Area: 1108
Amount: 18.027246
Amount Units: ug/l

Processing Integration Results



RT: 8.01
Area: 544
Amount: 3.990850
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 10-Oct-2025 08:24:25 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Eaton Analytical South Bend

Job No.: 810-167031-1

SDG No.:

Instrument ID: GCMS-DM

Start Date: 09/26/2025 08:48

Analysis Batch Number: 161928

End Date: 09/26/2025 22:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 810-161845/4-A		09/26/2025 08:48	1	IC1.D	CPSelect 624 MS 0.25 (mm)
IC 810-161845/5-A		09/26/2025 09:14	1	IC2.D	CPSelect 624 MS 0.25 (mm)
IC 810-161845/6-A		09/26/2025 09:39	1	IC3.D	CPSelect 624 MS 0.25 (mm)
IC 810-161845/7-A		09/26/2025 10:04	1	IC4.D	CPSelect 624 MS 0.25 (mm)
IC 810-161845/8-A		09/26/2025 10:29	1	IC5.D	CPSelect 624 MS 0.25 (mm)
IC 810-161845/9-A		09/26/2025 10:54	1	IC6.D	CPSelect 624 MS 0.25 (mm)
ICISAV 810-161845/10-A		09/26/2025 11:19	1	IC7.D	CPSelect 624 MS 0.25 (mm)
IC 810-161845/11-A		09/26/2025 11:44	1	IC8.D	CPSelect 624 MS 0.25 (mm)
IC 810-161845/12-A		09/26/2025 12:09	1	IC9.D	CPSelect 624 MS 0.25 (mm)
IC 810-161845/13-A		09/26/2025 12:34	1	IC10.D	CPSelect 624 MS 0.25 (mm)
IC 810-161845/14-A		09/26/2025 12:59	1	IC11.D	CPSelect 624 MS 0.25 (mm)
ICV 810-161845/15-A		09/26/2025 13:49	1	ICV.D	CPSelect 624 MS 0.25 (mm)
CCVLIS 810-161662/1-A		09/26/2025 14:14	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (QC)		09/26/2025 15:03	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (QC)		09/26/2025 15:53	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/26/2025 16:18	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/26/2025 16:43	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/26/2025 17:08	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/26/2025 17:33	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/26/2025 17:58	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/26/2025 18:23	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/26/2025 18:48	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/26/2025 19:13	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/26/2025 19:38	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/26/2025 20:03	1		CPSelect 624 MS 0.25 (mm)
CCVIS 810-161662/2-A		09/26/2025 20:28	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/26/2025 20:52	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/26/2025 21:17	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/26/2025 21:42	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/26/2025 22:07	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/26/2025 22:32	1		CPSelect 624 MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Eaton Analytical South Bend

Job No.: 810-167031-1

SDG No.:

Instrument ID: GCMS-DM

Start Date: 10/09/2025 13:46

Analysis Batch Number: 163931

End Date: 10/09/2025 19:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVLIS 810-163891/1-A		10/09/2025 13:46	1	CCVL1.D	CPSelect 624 MS 0.25 (mm)
MBL 810-163879/1-A		10/09/2025 14:36	1	MB1.D	CPSelect 624 MS 0.25 (mm)
LLCS 810-163879/2-A		10/09/2025 15:02	1	LLCS1.D	CPSelect 624 MS 0.25 (mm)
LCS 810-163879/3-A		10/09/2025 15:26	1	LCS.D	CPSelect 624 MS 0.25 (mm)
810-167031-1	VPB184-HYD-20251003	10/09/2025 15:52	1	810-167031-A-1-A.D	CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		10/09/2025 16:17	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		10/09/2025 16:41	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		10/09/2025 17:07	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		10/09/2025 17:32	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		10/09/2025 17:57	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (QC)		10/09/2025 18:22	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (QC)		10/09/2025 18:46	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		10/09/2025 19:12	1		CPSelect 624 MS 0.25 (mm)
CCVIS 810-163891/2-A		10/09/2025 19:37	1	CCVM.D	CPSelect 624 MS 0.25 (mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Eaton Analytical Sout Job No.: 810-167031-1

SDG No.: _____

Batch Number: 161845 Batch Start Date: 09/25/25 11:12 Batch Analyst: Arriaga Banda, BrisaBatch Method: 522 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	522 IS SS 00259	522-Sur-SS 00152	O-522-CalH 00026	O-522-QCS-Sub 00012
IC 810-161845/4		522, 522			2 mL	2 mL	10 uL	10 uL		
IC 810-161845/5		522, 522			2 mL	2 mL	10 uL	10 uL		
IC 810-161845/6		522, 522			2 mL	2 mL	10 uL	10 uL		
IC 810-161845/7		522, 522			2 mL	2 mL	10 uL	10 uL		
IC 810-161845/8		522, 522			2 mL	2 mL	10 uL	10 uL		
IC 810-161845/9		522, 522			2 mL	2 mL	10 uL	10 uL		
ICISAV 810-161845/10		522, 522			2 mL	2 mL	10 uL	10 uL	5 uL	
IC 810-161845/11		522, 522			2 mL	2 mL	10 uL	10 uL	10 uL	
IC 810-161845/12		522, 522			2 mL	2 mL	10 uL	10 uL	20 uL	
IC 810-161845/13		522, 522			2 mL	2 mL	10 uL	10 uL	50 uL	
IC 810-161845/14		522, 522			2 mL	2 mL	10 uL	10 uL	100 uL	
ICV 810-161845/15		522, 522			2 mL	2 mL	10 uL	10 uL		5 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	O522-CalL 00026					
IC 810-161845/4		522, 522			7 uL					
IC 810-161845/5		522, 522			10 uL					
IC 810-161845/6		522, 522			20 uL					
IC 810-161845/7		522, 522			50 uL					
IC 810-161845/8		522, 522			100 uL					
IC 810-161845/9		522, 522			200 uL					
ICISAV 810-161845/10		522, 522								
IC 810-161845/11		522, 522								
IC 810-161845/12		522, 522								
IC 810-161845/13		522, 522								
IC 810-161845/14		522, 522								

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.: 810-167031-1

SDG No.: _____

Batch Number: 161845 Batch Start Date: 09/25/25 11:12 Batch Analyst: Arriaga Banda, BrisaBatch Method: 522 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	0522-Call 00026					
ICV 810-161845/15		522, 522								

Batch Notes	
MeCL2 ID	2007272
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.: 810-167031-1

SDG No.: _____

Batch Number: 161928 Batch Start Date: 09/26/25 08:48 Batch Analyst: Orpurt, KylaBatch Method: 522 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	O-522BFBSUB 00029				
IC 810-161845/4-A		522			2 mL	1 mL				
IC 810-161845/5-A		522			2 mL	1 mL				
IC 810-161845/6-A		522			2 mL	1 mL				
IC 810-161845/7-A		522			2 mL	1 mL				
IC 810-161845/8-A		522			2 mL	1 mL				
IC 810-161845/9-A		522			2 mL	1 mL				
ICISAV 810-161845/10-A		522			2 mL	1 mL				
IC 810-161845/11-A		522			2 mL	1 mL				
IC 810-161845/12-A		522			2 mL	1 mL				
IC 810-161845/13-A		522			2 mL	1 mL				
ICV 810-161845/15-A		522			2 mL	1 mL				
IC 810-161845/14-A		522			2 mL	1 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.: 810-167031-1

SDG No.: _____

Batch Number: 163879 Batch Start Date: 10/09/25 09:10 Batch Analyst: Arriaga Banda, BrisaBatch Method: 522 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	522 IS SS 00261	522-Sur-SS 00153
MBL 810-163879/1		522, 522			100 g	0 g	100 mL	2 mL	10 uL	10 uL
LLCS 810-163879/2		522, 522			100 g	0 g	100 mL	2 mL	10 uL	10 uL
LCS 810-163879/3		522, 522			100 g	0 g	100 mL	2 mL	10 uL	10 uL
810-167031-A-1	VPB184-HYD-2025 1003	522, 522	aking 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-CalH 00027	O522-CalL 00027	AnalysisCommen t			
MBL 810-163879/1		522, 522					X1			
LLCS 810-163879/2		522, 522				7 uL	X2			
LCS 810-163879/3		522, 522			50 uL		X3			
810-167031-A-1	VPB184-HYD-2025 1003	522, 522	aking W	T			X6			

Batch Notes	
MeCL2 ID	2183656
Methanol ID	2140777
SPE Cartridge Lot ID	403134312a
Sodium Sulfite ID	1456825
Na2SO4 ID	2178900
Sodium Bisulfate ID	660717
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.: 810-167031-1

SDG No.: _____

Batch Number: 163891 Batch Start Date: 10/09/25 09:58 Batch Analyst: Arriaga Banda, BrisaBatch Method: 522 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	522 IS SS 00261	522-Sur-SS 00153	O-522-CalH 00027	O522-CalL 00027
CCVLIS 810-163891/1		522, 522			2 mL	2 mL	10 uL	10 uL		7 uL
CCVIS 810-163891/2		522, 522			2 mL	2 mL	10 uL	10 uL	5 uL	

Batch Notes	
MeCL2 ID	2183656
Sodium Bisulfate ID	n/s
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



CHAIN OF CUSTODY RECORD

Sub Lab INFORMATION		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION	
Eurofins Eaton Analytical South Bend		ORDER ID :	Q3299	BILL TO :	CHEMTECH
PROJECT ID: NWIRP Bethpage 112G08005-WE13		PROJECT MANAGER		PO # :	Q3299
COMPANY :	110 South Bend	YAZMEEN		ADDRESS :	284, Sheffield Street
ADDRESS :	State : IN	E-mail :		CITY :	Mountainside
CITY :	South Bend	yazmeen.gomez@alliancecg.com		State :	NJ
E-mail :	Nathan.Trowbridge@et.eurofinsus.	PHONE :	(908) 789 8900	ATTENTION :	YAZMEE
PHONE :	574-233-4777	FAX :	(908) 789 8922	PHONE :	(908) 789 8900
				FAX :	(908) 789 8922

Report : Level 4

Comment : GRAB, NY.

EDD : ADAPT	CLIENT	SAMPLE MATRIX	ANALYSIS	Preservative	Method	SAMPLE COLLECTION		# OF BOTTLES	TAT DAYS
	SAMPLE IDENTIFICATION					DATE	TIME		
01	VPB184-HYD-20251003	Water	Wet Chem Group1	1.1 HNO3 for pH < 2	Cal	10/03/2025	12:00:00	2	5

S2C-2 - 3M 10-08-2025

Initial Temp: 1.0
Corrected Temp: 6.7
IR Gun # 82m

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Conditions of bottles or Coolers at receipt:
1.	DATE/TIME:	1.	☐ Compliant ☐ Non Compliant
RELINQUISHED BY:	DATE/TIME:	2.	Cooler Temp _____ Ice or Cooler? _____
2.	DATE/TIME:	RECEIVED BY:	☐ OVERNIGHT ☐ Shipment Complete: YES ☐ NO
RELINQUISHED BY:	DATE/TIME:	3.	☐ OVERNIGHT ☐ YES ☐ NO

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number:

03298/99

CLIENT INFORMATION

COMPANY: Tetra Tech
ADDRESS: 4433 Corporation Lane Suite 300
CITY: Virginia Beach STATE: VA ZIP: 23462
ATTENTION: Ernie Wu
PHONE: 757-466-4901 FAX: 757-461-4148

PROJECT INFORMATION

PROJECT NAME: NW/RP Bethpage
PROJECT #: 112G08005-WE13 LOCATION: VPB-184
PROJECT MANAGER: Ernie Wu
E-MAIL: ernie.wu@tetratech.com
PHONE: 757-466-4901 FAX: 757-461-4148

COC Number:

BILLING INFORMATION

BILL TO: SEE CONTRACT PO#
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: 2 & 10 DAYS*
HARD COPY: 2 & 10 DAYS*
EDD 2 & 10 DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other

ANALYSIS								
VOC(SW846-8260B)								
1,4 Dioxane (8270 SIM)								
522_PREC								

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other										
			COMP	GRAB	DATE	TIME		A	1	2	3	4	5	6	7	8	9	
1.	BP-VPB-184-TB-20251003	QA		X	10/3/25	9:00	2	2										Trip Blank
2.	BP-VPB-184-EB-20251003	QA		X	10/3/25	8:20	3	2	1									.
3.	VPB184-HYD-20251003	AQ		X	10/3/25	12:00	5	2	1	2								..
4.	BP-VPB-184-GW-720-722	AQ		X	10/6/25	10:40	2	2										
5.	BP-VPB-184-GW-740-742	AQ		X	10/6/25	12:56	5	2	3									8270 MS/MSD
6.																		
7.																		
8.																		
9.																		
10.																		

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

RELINQUISHED BY SAMPLER	DATE/TIME 10/6/25 1530	RECEIVED BY	DATE/TIME 10/6/25 1820	RECEIVED FOR LAB BY	SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight	Shipment Complete ☐ YES ☐ NO
1. <i>Hand Delivered</i>	DATE/TIME 10/6/25 1530	RECEIVED BY	DATE/TIME 10/6/25 1820	RECEIVED FOR LAB BY	SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight	Shipment Complete ☐ YES ☐ NO
2.						
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	RECEIVED FOR LAB BY	SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight	Shipment Complete ☐ YES ☐ NO
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	RECEIVED FOR LAB BY	SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight	Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

Login Sample Receipt Checklist

Client: Chemtech Consulting Group Inc.

Job Number: 810-167031-1

Login Number: 167031

List Number: 1

Creator: Moore, Gary

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	
Were samples preserved to correct pH upon receipt, if applicable?	True	
Container provided by EEA	True	