

DATA PACKAGE

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 : Q2315

ATTENTION : Ernie Wu



Cover Page

Order ID : Q2315

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q2315-01

Client Sample Number

VPB182-HYD-20250612

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 : _____



ANALYTICAL REPORT

PREPARED FOR

Attn: Yazmeen Gomez
Chemtech Consulting Group Inc.
284 Sheffield Street
Mountainside NJ 07092

Generated 6/24/2025 7:47 AM

JOB DESCRIPTION

1,4 Dioxane

JOB NUMBER

810-152478-1

Eurofins Eaton Analytical South Bend

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins 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: 810-152478-1

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
810-152478-1

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

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

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

Receipt

The sample was received on 6/17/2025 9:30 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 2.8°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: 810-152478-1

Client Sample ID: VPB182-HYD-20250612

Lab Sample ID: 810-152478-1

 No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Client Sample Results

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

Job ID: 810-152478-1

Client Sample ID: VPB182-HYD-20250612

Lab Sample ID: 810-152478-1

Date Collected: 06/12/25 14:30

Matrix: Drinking Water

Date Received: 06/17/25 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.062		0.070	0.062	ug/L		06/20/25 08:43	06/21/25 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	88		70 - 130	06/20/25 08:43	06/21/25 17:17	1

Default Detection Limits

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

Job ID: 810-152478-1

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: 810-152478-1

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)							
810-152478-1	VPB182-HYD-20250612	88							
LCS 810-148985/3-A	Lab Control Sample	93							
LLCS 810-148985/2-A	Lab Control Sample	92							
MBL 810-148985/1-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: 810-152478-1

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

Lab Sample ID: MBL 810-148985/1-A
Matrix: Drinking Water
Analysis Batch: 149116

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 148985

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.062		0.070	0.062	ug/L		06/20/25 08:43	06/21/25 16:11	1
Surrogate	MBL %Recovery	MBL Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	84		70 - 130				06/20/25 08:43	06/21/25 16:11	1

Lab Sample ID: LCS 810-148985/3-A
Matrix: Drinking Water
Analysis Batch: 149116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 148985

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane			1.00	0.808		ug/L		81	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1,4-Dioxane-d8 (Surr)	93		70 - 130						

Lab Sample ID: LLCS 810-148985/2-A
Matrix: Drinking Water
Analysis Batch: 149116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 148985

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane			0.0700	<0.062		ug/L		82	50 - 150
Surrogate	LLCS %Recovery	LLCS Qualifier	Limits						
1,4-Dioxane-d8 (Surr)	92		70 - 130						

QC Association Summary

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

Job ID: 810-152478-1

GC/MS Semi VOA

Prep Batch: 148985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-152478-1	VPB182-HYD-20250612	Total/NA	Drinking Water	522	
MBL 810-148985/1-A	Method Blank	Total/NA	Drinking Water	522	
LCS 810-148985/3-A	Lab Control Sample	Total/NA	Drinking Water	522	
LLCS 810-148985/2-A	Lab Control Sample	Total/NA	Drinking Water	522	

Analysis Batch: 149116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-152478-1	VPB182-HYD-20250612	Total/NA	Drinking Water	522	148985
MBL 810-148985/1-A	Method Blank	Total/NA	Drinking Water	522	148985
LCS 810-148985/3-A	Lab Control Sample	Total/NA	Drinking Water	522	148985
LLCS 810-148985/2-A	Lab Control Sample	Total/NA	Drinking Water	522	148985

Lab Chronicle

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

Job ID: 810-152478-1

Client Sample ID: VPB182-HYD-20250612
Date Collected: 06/12/25 14:30
Date Received: 06/17/25 09:30

Lab Sample ID: 810-152478-1
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	522			148985	MP	EA SB	06/20/25 08:43
Total/NA	Analysis	522		1	149116	KO	EA SB	06/21/25 17:17

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: 810-152478-1

Laboratory: Eurofins Eaton Analytical South Bend

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

Authority	Program	Identification Number	Expiration Date
A2LA	ISO/IEC 17025	5794.01	07-31-26
Alabama	State	40700	06-30-25
Alaska	State	IN00035	06-30-25
Arizona	State	AZ0432	07-26-25
Arkansas (DW)	State	EPA IN00035	06-30-25
California	State	2920	06-30-25
Colorado	State	IN00035	02-28-26
Connecticut	State	PH-0132	03-31-26
Delaware (DW)	State	IN00035	06-30-26
Florida	NELAP	E87775	06-30-25
Georgia (DW)	State	929	06-30-25
Guam	State	24-012R	07-15-25
Hawaii	State	IN035	06-30-25
Idaho (DW)	State	IN00035	12-31-25
IL Dept. of Public Health (Micro)	State	17767	06-30-25
Illinois	NELAP	200001	09-30-25
Indiana	State	C-71-01	12-31-25
Indiana (Micro)	State	M-76-07	12-31-25
Iowa	State	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	06-01-25 *
Michigan	State	9926	12-31-25
Minnesota	NELAP	018-999-338	12-31-25
Mississippi	State	IN00035	06-30-25
Missouri	State	880	09-30-27
Montana (DW)	State	CERT0026	01-01-26
Nebraska	State	NE-OS-05-04	06-30-25
Nevada	State	NV-C24-00276	07-31-25
New Hampshire	NELAP	2124	11-05-25
New Jersey	NELAP	IN598	06-30-25
New Mexico	State	IN00035	06-30-25
New York	NELAP	11398	04-01-26

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

Eurofins Eaton Analytical South Bend

Accreditation/Certification Summary

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

Job ID: 810-152478-1

Laboratory: Eurofins Eaton Analytical South Bend (Continued)

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

Authority	Program	Identification Number	Expiration Date
North Carolina (DW)	State	18700	07-31-25
North Dakota	State	R-035	06-30-24 *
Northern Mariana Islands (DW)	State	IN00035	06-30-25
Ohio	State	87775	06-30-26
Oklahoma	NELAP	D9508	08-31-25
Oregon	NELAP	4156	09-16-25
Pennsylvania	NELAP	68-00466	04-30-26
Puerto Rico	State	IN00035	04-01-26
Rhode Island	State	LAO00343	12-30-25
South Carolina	State	95005001	06-30-25
South Dakota (DW)	State	IN00035	06-30-25
Tennessee	State	TN02973	06-30-25
Texas	NELAP	T104704187	12-31-25
Texas	TCEQ Water Supply	TX207	06-30-25
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25
Utah	NELAP	IN00035	07-31-25
Vermont	State	VT-8775	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	08-31-25
Wisconsin (Micro)	State	10121	12-31-25
Wyoming	State	8TMS-L	06-30-25

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

Eurofins Eaton Analytical South Bend

Method Summary

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

Job ID: 810-152478-1

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: 810-152478-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-152478-1	VPB182-HYD-20250612	Drinking Water	06/12/25 14:30	06/17/25 09:30

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Eaton Analytical South Bend

Job No.: 810-152478-1

SDG No.:

Instrument ID: GCMS-FE

Analysis Batch Number: 148478

Lab Sample ID: IC 810-148416/7-A

Client Sample ID:

Date Analyzed: 06/17/25 16:44

Lab File ID: IC 007.D

GC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.81	Baseline	JH8B	06/20/25 06:18

Lab Sample ID: IC 810-148416/8-A

Client Sample ID:

Date Analyzed: 06/17/25 17:06

Lab File ID: IC 01.D

GC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrahydrofuran-d8	6.57	Baseline	JH8B	06/20/25 11:53
1,4-Dioxane-d8 (Surr)	8.73	Baseline	JH8B	06/18/25 07:03
1,4-Dioxane	8.81	Baseline	JH8B	06/18/25 07:13

Lab Sample ID: IC 810-148416/9-A

Client Sample ID:

Date Analyzed: 06/17/25 17:28

Lab File ID: IC 02.D

GC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrahydrofuran-d8	6.57	Baseline	JH8B	06/20/25 11:53
1,4-Dioxane	8.81	Baseline	JH8B	06/20/25 06:19

Lab Sample ID: IC 810-148416/10-A

Client Sample ID:

Date Analyzed: 06/17/25 17:50

Lab File ID: IC 05.D

GC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrahydrofuran-d8	6.58	Baseline	JH8B	06/20/25 11:54
1,4-Dioxane	8.81	Baseline	JH8B	06/20/25 06:19

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Eaton Analytical South Bend

Job No.: 810-152478-1

SDG No.: _____

Instrument ID: GCMS-FE

Analysis Batch Number: 148478

Lab Sample ID: IC 810-148416/11-A

Client Sample ID: _____

Date Analyzed: 06/17/25 18:12

Lab File ID: IC 1.D

GC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrahydrofuran-d8	6.58	Baseline	JH8B	06/20/25 11:54
1,4-Dioxane	8.81	Baseline	JH8B	06/18/25 07:12

Lab Sample ID: IC 810-148416/12-A

Client Sample ID: _____

Date Analyzed: 06/17/25 18:34

Lab File ID: IC 2.D

GC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrahydrofuran-d8	6.57	Baseline	JH8B	06/20/25 11:54
1,4-Dioxane	8.81	Baseline	JH8B	06/18/25 07:12

Lab Sample ID: IC 810-148416/13-A

Client Sample ID: _____

Date Analyzed: 06/17/25 18:56

Lab File ID: IC 5.D

GC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.81	Baseline	JH8B	06/18/25 07:12

Lab Sample ID: IC 810-148416/14-A

Client Sample ID: _____

Date Analyzed: 06/17/25 19:18

Lab File ID: IC 10.D

GC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrahydrofuran-d8	6.57	Baseline	JH8B	06/20/25 11:55

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-152478-1
SDG No.: _____
Instrument ID: GCMS-FE Analysis Batch Number: 148478
Lab Sample ID: IC 810-148416/16-A Client Sample ID: _____
Date Analyzed: 06/17/25 20:02 Lab File ID: IC 50.D GC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrahydrofuran-d8	6.57	Baseline	JH8B	06/20/25 11:56

Lab Sample ID: ICV 810-148416/18-A Client Sample ID: _____
Date Analyzed: 06/17/25 21:08 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	8.81	Baseline	JH8B	06/20/25 06:22

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Eaton Analytical South BendJob No.: 810-152478-1

SDG No.: _____

Instrument ID: GCMS-FEAnalysis Batch Number: 149116Lab Sample ID: CCVLIS 810-149065/1-A

Client Sample ID: _____

Date Analyzed: 06/21/25 15:27Lab File ID: CCVL8.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.82	Baseline	JH8B	06/23/25 11:50

Lab Sample ID: MBL 810-148985/1-A

Client Sample ID: _____

Date Analyzed: 06/21/25 16:11Lab File ID: MBL8.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane		Baseline	JH8B	06/23/25 11:51

Lab Sample ID: LLCS 810-148985/2-A

Client Sample ID: _____

Date Analyzed: 06/21/25 16:33Lab File ID: LLCS8.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.81	Baseline	JH8B	06/23/25 11:51

Lab Sample ID: 810-152478-1Client Sample ID: VPB182-HYD-20250612Date Analyzed: 06/21/25 17:17Lab File ID: 810-152478-A-1-A.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.81	Baseline	JH8B	06/23/25 11:52

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-152478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
522 IS SS 00243	07/01/25	06/17/25	MeCl2, Lot EJ007-US	2 mL	522 IS Stock 00036	200 uL	Tetrahydrofuran-d8	100 ug/mL
.522 IS Stock 00036	10/25/28	06/17/25	Methanol, Lot na	1 mL	522-IS-Stock_00008	1 mL	Tetrahydrofuran-d8	1000 ug/mL
..522-IS-Stock_00008	10/25/28		Absolute Standards Inc., Lot 102523		(Purchased Reagent)		Tetrahydrofuran-d8	1000 ug/mL
522 IS SS 00244	07/01/25	06/19/25	MeCl2, Lot EJ007-US	2 mL	522 IS Stock 00036	200 uL	Tetrahydrofuran-d8	100 ug/mL
.522 IS Stock 00036	10/25/28	06/17/25	Methanol, Lot na	1 mL	522-IS-Stock_00008	1 mL	Tetrahydrofuran-d8	1000 ug/mL
..522-IS-Stock_00008	10/25/28		Absolute Standards Inc., Lot 102523		(Purchased Reagent)		Tetrahydrofuran-d8	1000 ug/mL
522-Sur-SS_00141	12/17/25	06/17/25	Methanol, Lot 23I0762004	2 mL	522-SUR-Stock_00023	100 uL	1,4-Dioxane-d8 (Surr)	100 ug/mL
.522-SUR-Stock_00023	12/31/26	06/17/25		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_00142	12/17/25	06/19/25	Methanol, Lot 23I0762004	2 mL	522-SUR-Stock_00023	100 uL	1,4-Dioxane-d8 (Surr)	100 ug/mL
.522-SUR-Stock_00023	12/31/26	06/17/25		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
O-522 CalM_00018	12/17/25	06/17/25	Methanol, Lot 23i0762004	2 mL	522 AnalyteST_00004	10 uL	1,4-Dioxane	10 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_00021	12/17/25	06/17/25	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_00010	07/23/25	01/23/25	Methanol, Lot 23I0762004	2 mL	522-QCS_00006	20 uL	1,4-Dioxane	10 ug/mL
.522-QCS_00006	10/21/32		AccuStandard, Lot 222101299		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
O-522BFBSub_00021	08/14/25	05/14/25	MeCl2, Lot EJ789-US	2 mL	o-522-bfb_00004	2 uL	BFB	2.005 ug/mL
.o-522-bfb_00004	09/30/28	07/21/22	METHANOL, Lot NA	1 mL	O-522-BFB_00003	1 mL	BFB	2005 ug/mL
..O-522-BFB_00003	09/30/28		Agilent, Lot 6629793		(Purchased Reagent)		BFB	2005 ug/mL
O522-CalL_00025	12/17/25	06/17/25	Methanol, Lot 23I0762004	2 mL	O-522-CalH_00021	20 uL	1,4-Dioxane	1 ug/mL
.O-522-CalH_00021	12/17/25	06/17/25	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



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)

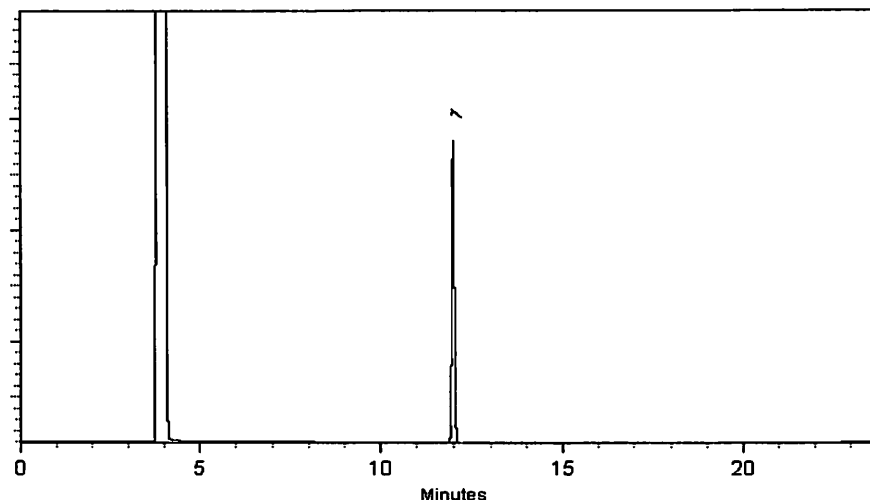
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

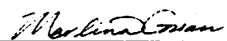
Det. Type:
FID



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-IS-Stock_00008



CERTIFIED WEIGHT REPORT

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

Solvent(s):
 Methanol
 Lot#: EG359-US

Recd 03/08/2024
Hmk

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

Expiration Date: 102528

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration (µg/mL): 1000

NIST Test ID#: 6UTB

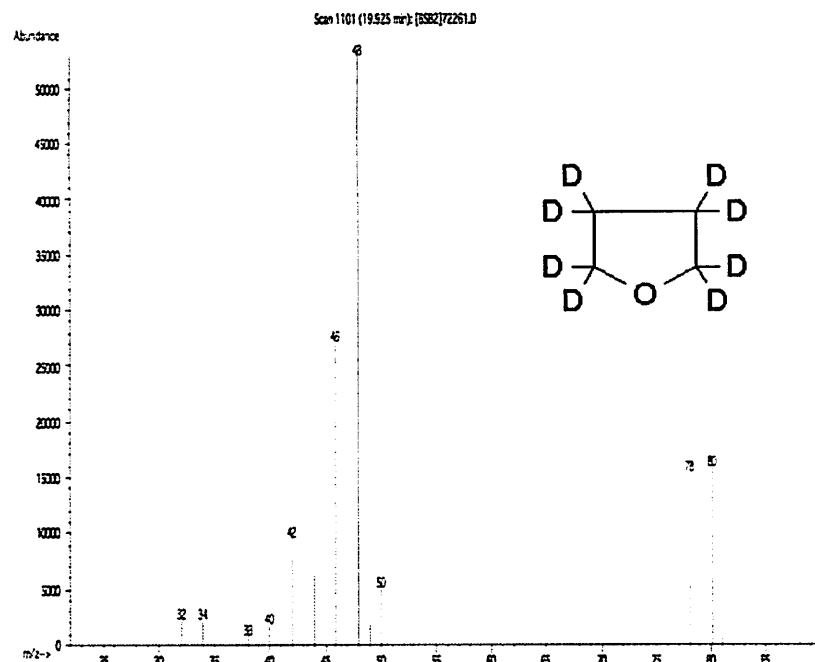
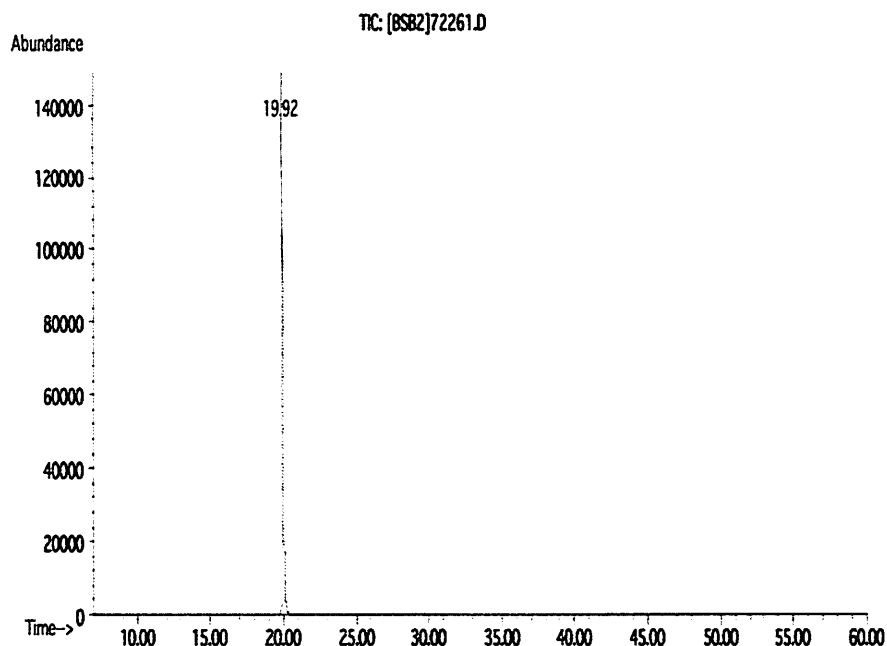
5E-05 Balance Uncertainty

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

0.021 Flask Uncertainty

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

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



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

Reagent

522-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:

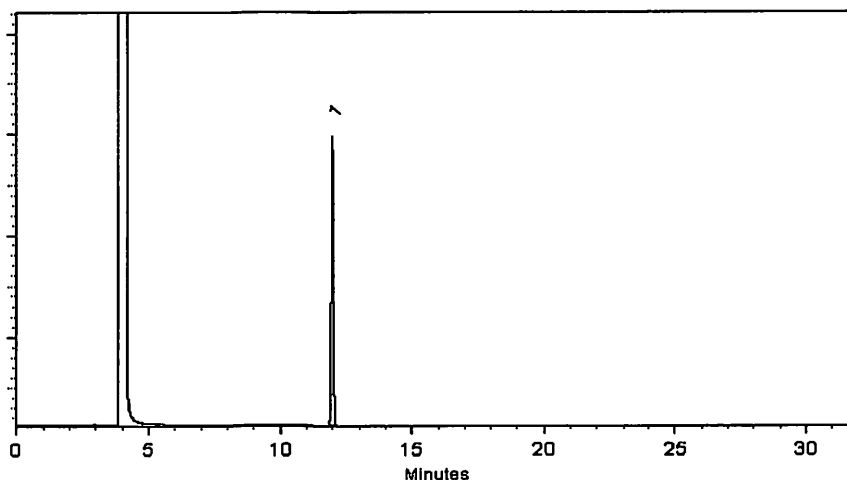
FID

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

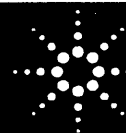
- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability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

Reagent

O-522-BFB_00003

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

ISO 17034



Agilent

Trusted Answers

Reference Material Certificate

Product Name: 4-Bromofluorobenzene Standard

Lot Number: 0006629793

Product Number: STS-110N-1

Lot Issue Date: 10-Aug-2021

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

Expiration Date: 30-Sep-2028

Component Name	CERTIFIED VALUES		CAS#	Analyte Lot
	Concentration	Expanded Uncertainty		
4-bromofluorobenzene	2000	± 10 µg/mL	000460-00-4	RM12184

Matrix: methanol (methyl alcohol)

Description:

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

Traceability:

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

Homogeneity:

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

Instructions for Use:

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

Safety:

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

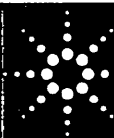
Intended Use:

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

Expiration of Certification:

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

ISO 17034



Agilent

Trusted Answers

Maintenance of Certification:

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

Sample lot approver:



Monica Bourgeois

QMS Representative



ISO 17034 Cert
No. AR-1936

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

Page: 2 of 2

www.agilent.com/quality/

CSD-QA-015.1



ISO 17025 Cert
No. AT-1937

Method 522

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

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-152478-1

SDG No.: _____

Matrix: Drinking Water Level: Low

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

Client Sample ID	Lab Sample ID	DXE #
VPB182-HYD-2025061 2	810-152478-1	88
	LCS 810-148985/3-A	93
	LLCS 810-148985/2-A	92
	MBL 810-148985/1-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.: 810-152478-1
Bend

SDG No.:

Matrix: Drinking Water Level: Low Lab File ID: LCS8.D

Lab ID: LCS 810-148985/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	1.00	0.808	81	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.: 810-152478-1
Bend

SDG No.:

Matrix: Drinking Water Level: Low Lab File ID: LLC8.D

Lab ID: LLC8 810-148985/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LLCS CONCENTRATION (ug/L)	LLCS % REC	QC LIMITS REC	#
1,4-Dioxane	0.0700	<0.062	82	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.: 810-152478-1
SDG No.:
Lab File ID: MBL8.D
Lab Sample ID: MBL 810-148985/1-A
Matrix: Drinking Water
Date Extracted: 06/20/2025 08:43
Instrument ID: GCMS-FE
Date Analyzed: 06/21/2025 16:11
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LLCS 810-148985/2-A	LLCS8.D	06/21/2025 16:33
	LCS 810-148985/3-A	LCS8.D	06/21/2025 16:55
VPB182-HYD-20250612	810-152478-1	810-152478-A-1-A.D	06/21/2025 17:17

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

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-152478-1

SDG No.:

Lab File ID: BFB 2.D BFB Injection Date: 06/17/2025

Instrument ID: GCMS-FE BFB Injection Time: 16:30

Analysis Batch No.: 148478

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	30.5
75	30.0 - 80.0 % of mass 95	67.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.5
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	>50.0 % of mass 95	78.0
175	5.0 - 9.0 % of mass 174	5.6 (7.2) 1
176	>95.0 but <101.0 % of mass 174	77.8 (99.7) 1
177	5.0 - 9.0 % of mass 176	5.8 (7.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 810-148416/7-A	IC 007.D	06/17/2025	16:44
	IC 810-148416/8-A	IC 01.D	06/17/2025	17:06
	IC 810-148416/9-A	IC 02.D	06/17/2025	17:28
	IC 810-148416/10-A	IC 05.D	06/17/2025	17:50
	IC 810-148416/11-A	IC 1.D	06/17/2025	18:12
	IC 810-148416/12-A	IC 2.D	06/17/2025	18:34
	IC 810-148416/13-A	IC 5.D	06/17/2025	18:56
	IC 810-148416/14-A	IC 10.D	06/17/2025	19:18
	ICISAV 810-148416/15-A	IC 20.D	06/17/2025	19:40
	IC 810-148416/16-A	IC 50.D	06/17/2025	20:02
	IC 810-148416/17-A	IC100.D	06/17/2025	20:24
	ICV 810-148416/18-A	ICV.D	06/17/2025	21:08

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

Lab Name: Eurofins Eaton Analytical South Job No.: 810-152478-1
Bend

SDG No.:

Instrument I GCMS-FE Calibration Start Date: 06/17/2025 16:44

GC Column: CPSelect 624 MS ID: 0.25 (mm) Calibration End Date: 06/17/2025 20:24

Calibration ID: 16414

		THFd8					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		7518	6.58				
UPPER LIMIT		11277	7.07				
LOWER LIMIT		3759	6.07				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 810-148416/18-A		7165	6.57				
CCVLIS 810-149065/1-A		7580	6.58				
MBL 810-148985/1-A		7772	6.58				
LLCS 810-148985/2-A		7826	6.58				
LCS 810-148985/3-A		7607	6.58				
810-152478-1	VPB182-HYD-20250612	7505	6.58				
CCVIS 810-149065/3-A		7553	6.57				
CCV 810-149065/5-A		8309	6.57				

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

Lab Name: Eurofins Eaton Analytical South Bend

Job No.: 810-152478-1

SDG No. :

Sample No.: CCVLIS 810-149065/1-A

Date Analyzed: 06/21/2025 15:27

Instrument ID: GCMS-FE

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

Lab File ID (Standard): CCVL8.D

Heated Purge: (Y/N) N

Calibration ID: 16414

		THFd8					
		AREA #	RT #	#	RT #	#	RT #
Low Level 12/24 HOUR STD		7580	6.58				
UPPER LIMIT		9854	7.08				
LOWER LIMIT		5306	6.08				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MBL 810-148985/1-A		7772	6.58				
LLCS 810-148985/2-A		7826	6.58				
LCS 810-148985/3-A		7607	6.58				
810-152478-1	VPB182-HYD-20250612	7505	6.58				
CCVIS 810-149065/3-A		7553	6.57				

THFd8 = Tetrahydrofuran-d8

Area Limit = 70%-130% of internal standard area

RT Limit = ± 0.5 minutes of internal standard RT

```
# Column used to flag values outside QC limits
```

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

Lab Name: Eurofins Eaton Analytical South Job No.: 810-152478-1
Bend
SDG No.:
Sample No.: CCVIS 810-149065/3-A Date Analyzed: 06/21/2025 20:58
Instrument ID: GCMS-FE GC Column: CPSelect 624 MS ID: 0.25 (mm)
Lab File ID (Standard): CCVM8.D Heated Purge: (Y/N) N
Calibration ID: 16414

		THFd8					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		7553	6.57				
UPPER LIMIT		9819	7.07				
LOWER LIMIT		5287	6.07				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 810-149065/5-A		8309	6.57				

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.: 810-152478-1

SDG No.:

Client Sample ID: VPB182-HYD-20250612 Lab Sample ID: 810-152478-1

Matrix: Drinking Water Lab File ID: 810-152478-A-1-A.D

Analysis Method: 522 Date Collected: 06/12/2025 14:30

Extract. Method: 522 Date Extracted: 06/20/2025 08:43

Sample wt/vol: 100 (mL) Date Analyzed: 06/21/2025 17:17

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.: 149116 Units: ug/L

Preparation Batch No.: 148985 Instrument ID: GCMS-FE

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)	88		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\810-152478-A-1-A.D
 Lims ID: 810-152478-A-1-A
 Client ID: VPB182-HYD-20250612
 Sample Type: Client
 Inject. Date: 21-Jun-2025 17:17:51 ALS Bottle#: 6 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0038486-005
 Misc. Info.: 810-152478-A-1-A
 Operator ID: BC Instrument ID: GCMS-FE
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 23-Jun-2025 12:34:52 Calib Date: 17-Jun-2025 20:02:31
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1638

First Level Reviewer: JH8B

Date: 23-Jun-2025 12:02:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.582	6.574	0.008	27	7505	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.726	8.726	0.000	94	4187	442.5	
11 1,4-Dioxane	88	8.809	8.798	0.011	82	63	2.16	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\810-152478-A-1-A.D

Injection Date: 21-Jun-2025 17:17:51

Instrument ID: GCMS-FE

Lims ID: 810-152478-A-1-A

Lab Sample ID: 810-152478-1

Client ID: VPB182-HYD-20250612

Operator ID: BC

ALS Bottle#: 6

Worklist Smp#: 5

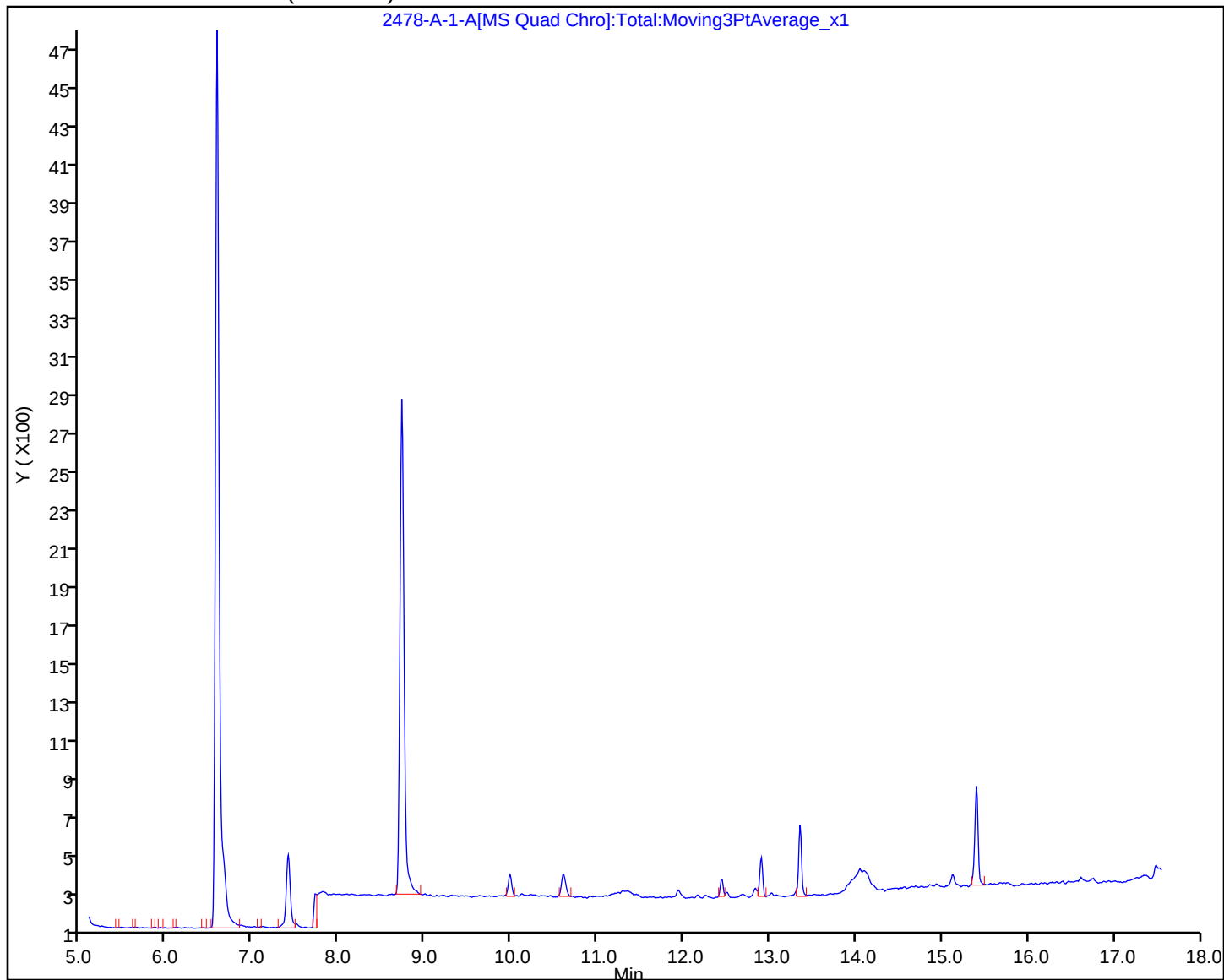
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend
Recovery Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\810-152478-A-1-A.D
Lims ID: 810-152478-A-1-A
Client ID: VPB182-HYD-20250612
Sample Type: Client
Inject. Date: 21-Jun-2025 17:17:51 ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0038486-005
Misc. Info.: 810-152478-A-1-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 23-Jun-2025 12:34:52 Calib Date: 17-Jun-2025 20:02:31
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1638

First Level Reviewer: JH8B

Date: 23-Jun-2025 12:02:39

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	442.5	88.50

Eurofins Eaton Analytical South Bend

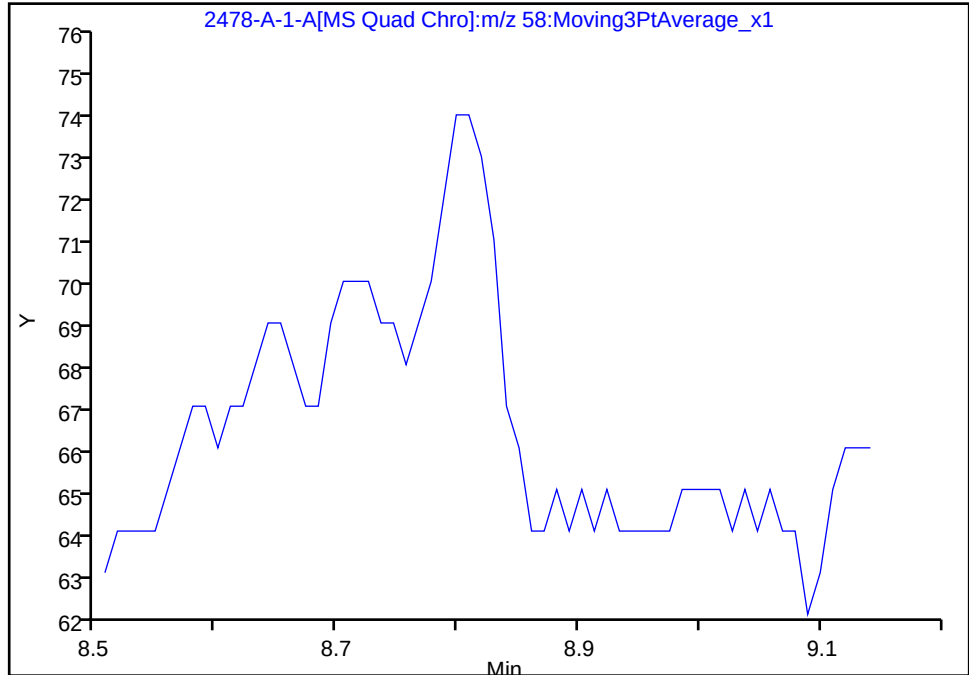
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\810-152478-A-1-A.D
Injection Date: 21-Jun-2025 17:17:51 Instrument ID: GCMS-FE
Lims ID: 810-152478-A-1-A Lab Sample ID: 810-152478-1
Client ID: VPB182-HYD-20250612
Operator ID: BC ALS Bottle#: 6 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector: MS Quad

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

Signal: 2

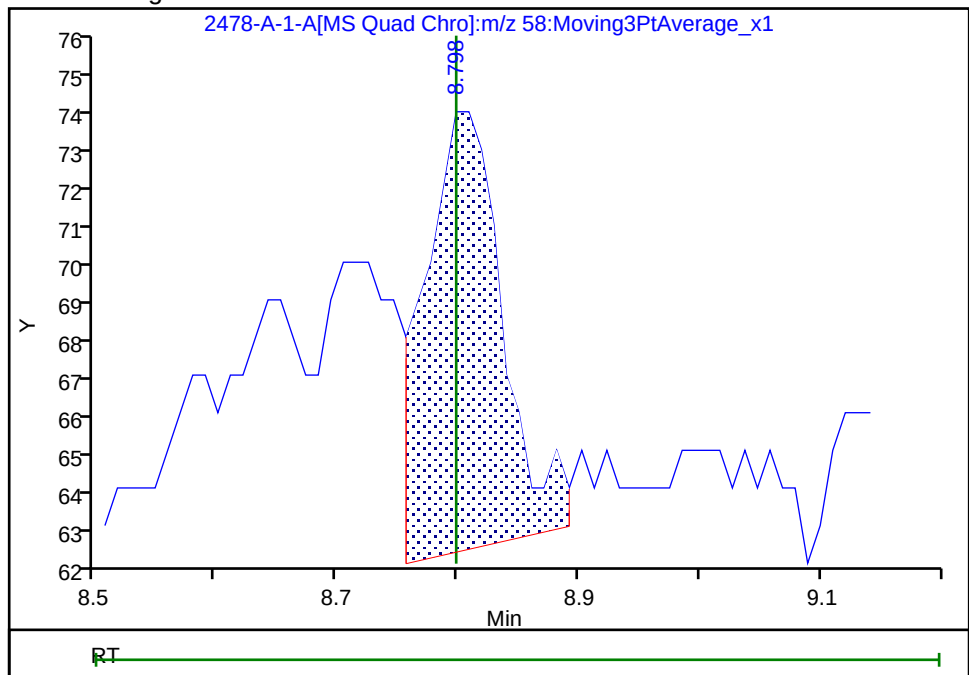
Not Detected
Expected RT: 8.80

Processing Integration Results



Manual Integration Results

RT: 8.80
Area: 54
Amount: 2.160402
Amount Units: ug/l



Reviewer: JH8B, 23-Jun-2025 11:52:14 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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

Lab Name: Eurofins Eaton Analytical South Job No.: 810-152478-1 Analy Batch No.: 148478
Bend

SDG No.:

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

Calibration Start Date: 06/17/2025 16:44 Calibration End Date: 06/17/2025 20:24 Calibration ID: 16414

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 810-148416/7-A	IC 007.D
Level 2	IC 810-148416/8-A	IC 01.D
Level 3	IC 810-148416/9-A	IC 02.D
Level 4	IC 810-148416/10-A	IC 05.D
Level 5	IC 810-148416/11-A	IC 1.D
Level 6	IC 810-148416/12-A	IC 2.D
Level 7	IC 810-148416/13-A	IC 5.D
Level 8	IC 810-148416/14-A	IC 10.D
Level 9	ICISAV 810-148416/15-A	IC 20.D
Level 10	IC 810-148416/16-A	IC 50.D
Level 11	IC 810-148416/17-A	IC100.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	1.3567 0.6713 +++++	1.2513 0.6454	1.0447 0.6810	0.7124 0.6710	0.7028 0.6473	Lin1	2.784 9	0.653 7				8.9					
1,4-Dioxane-d8 (Surr)	0.6133 0.6365 +++++	0.6150 0.6244	0.6372 0.6408	0.6365 0.6399	0.6322 0.6281	Ave		0.630 4				1.6		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.: 810-152478-1 Analy Batch No.: 148478

SDG No.: _____

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

Calibration Start Date: 06/17/2025 16:44 Calibration End Date: 06/17/2025 20:24 Calibration ID: 16414

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 810-148416/7-A	IC 007.D
Level 2	IC 810-148416/8-A	IC 01.D
Level 3	IC 810-148416/9-A	IC 02.D
Level 4	IC 810-148416/10-A	IC 05.D
Level 5	IC 810-148416/11-A	IC 1.D
Level 6	IC 810-148416/12-A	IC 2.D
Level 7	IC 810-148416/13-A	IC 5.D
Level 8	IC 810-148416/14-A	IC 10.D
Level 9	ICISAV 810-148416/15-A	IC 20.D
Level 10	IC 810-148416/16-A	IC 50.D
Level 11	IC 810-148416/17-A	IC100.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	71 1005 ++++	94 2434	157 4988	268 9888	548 24699	3.50 100 ++++	5.00 250	10.0 500	25.0 1000	50.0 2500
1,4-Dioxane-d8 (Surr)	THFd8	Ave	4585 4764 ++++	4620 4710	4788 4694	4789 4715	4929 4793	500 500 ++++	500 500	500 500	500 500	500 500

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

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

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-152478-1 Analy Batch No.: 148478

SDG No.: _____

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

Calibration Start Date: 06/17/2025 16:44 Calibration End Date: 06/17/2025 20:24 Calibration ID: 16414

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 810-148416/7-A	IC 007.D
Level 2	IC 810-148416/8-A	IC 01.D
Level 3	IC 810-148416/9-A	IC 02.D
Level 4	IC 810-148416/10-A	IC 05.D
Level 5	IC 810-148416/11-A	IC 1.D
Level 6	IC 810-148416/12-A	IC 2.D
Level 7	IC 810-148416/13-A	IC 5.D
Level 8	IC 810-148416/14-A	IC 10.D
Level 9	ICISAV 810-148416/15-A	IC 20.D
Level 10	IC 810-148416/16-A	IC 50.D
Level 11	IC 810-148416/17-A	IC100.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	-14.2	6.2	17.2	-8.1	-1.0	-1.6	40	20	20	20	20	20
	-3.0	3.3	2.2	-1.1	+++++		20	20	20	20		

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 007.D
 Lims ID: IC 810-148416/7-A
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 17-Jun-2025 16:44:19 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0038307-003
 Misc. Info.: IC 810-148416/7-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 20-Jun-2025 11:57:18 Calib Date: 17-Jun-2025 20:02:31
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: JH8B

Date: 18-Jun-2025 12:33:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.574	6.574	0.000	26	7476	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.725	8.725	0.000	94	4585	500.0	486.4	
11 1,4-Dioxane	88	8.809	8.809	0.000	78	71	3.50	3.00	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 007.D

Injection Date: 17-Jun-2025 16:44:19

Instrument ID: GCMS-FE

Lims ID: IC 810-148416/7-A

Client ID:

Operator ID: BC

ALS Bottle#: 3

Worklist Smp#: 3

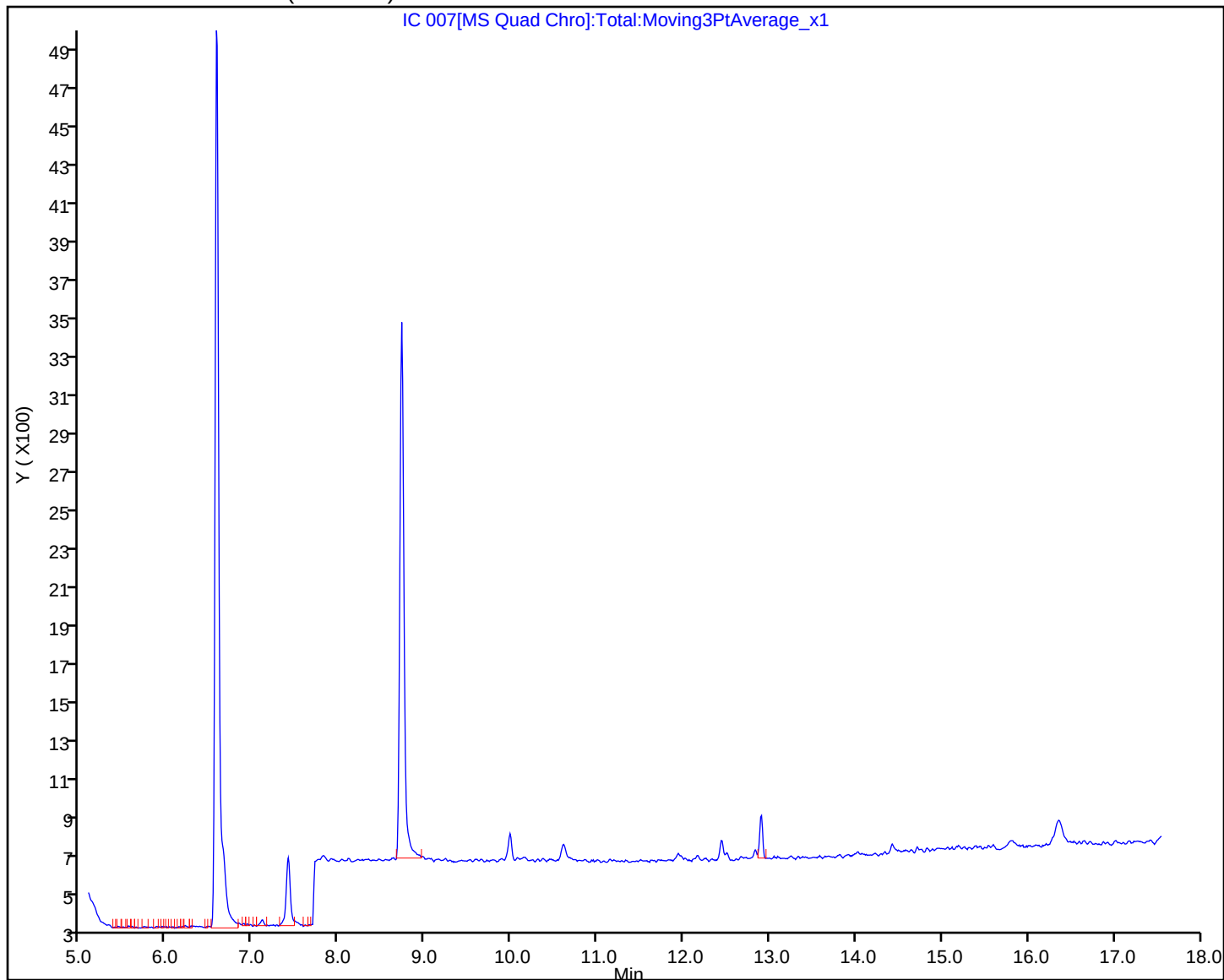
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 007.D

Injection Date: 17-Jun-2025 16:44:19

Instrument ID: GCMS-FE

Lims ID: IC 810-148416/7-A

Client ID:

Operator ID: BC

ALS Bottle#:

3

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

MS Quad

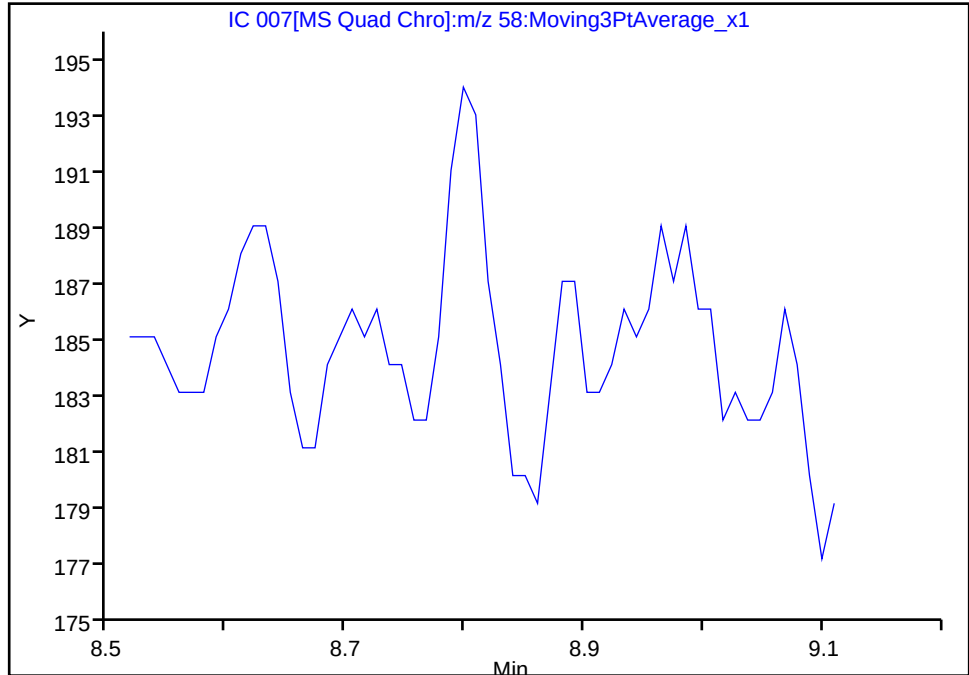
11 1,4-Dioxane, CAS: 123-91-1

Signal: 2

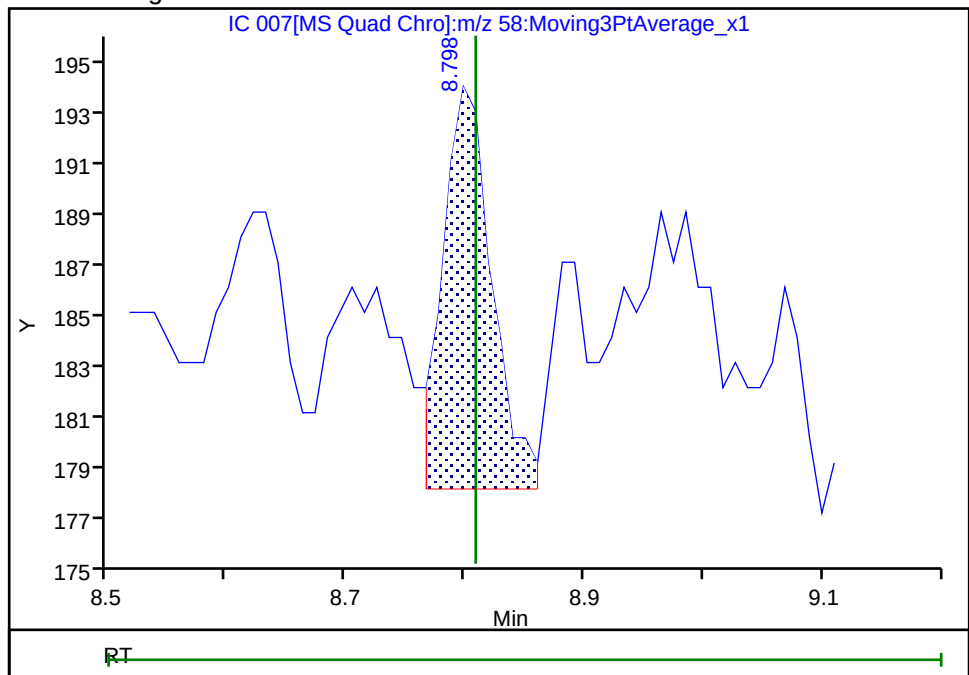
Not Detected

Expected RT: 8.81

Processing Integration Results



Manual Integration Results



RT: 8.80

Area: 47

Amount: 3.003757

Amount Units: ug/l

Reviewer: JH8B, 20-Jun-2025 06:18:10 -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-FE\20250617-38307.b\IC 01.D
 Lims ID: IC 810-148416/8-A
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 17-Jun-2025 17:06:22 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0038307-004
 Misc. Info.: IC 810-148416/8-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 20-Jun-2025 11:57:20 Calib Date: 17-Jun-2025 20:02:31
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: JH8B

Date: 20-Jun-2025 11:49:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.574	6.574	0.000	28	7512	500.0	500.0	M
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.726	8.725	0.001	94	4620	500.0	487.8	M
11 1,4-Dioxane	88	8.809	8.809	0.000	84	94	5.00	5.31	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 01.D

Injection Date: 17-Jun-2025 17:06:22

Instrument ID: GCMS-FE

Lims ID: IC 810-148416/8-A

Client ID:

Operator ID: BC

ALS Bottle#: 4

Worklist Smp#: 4

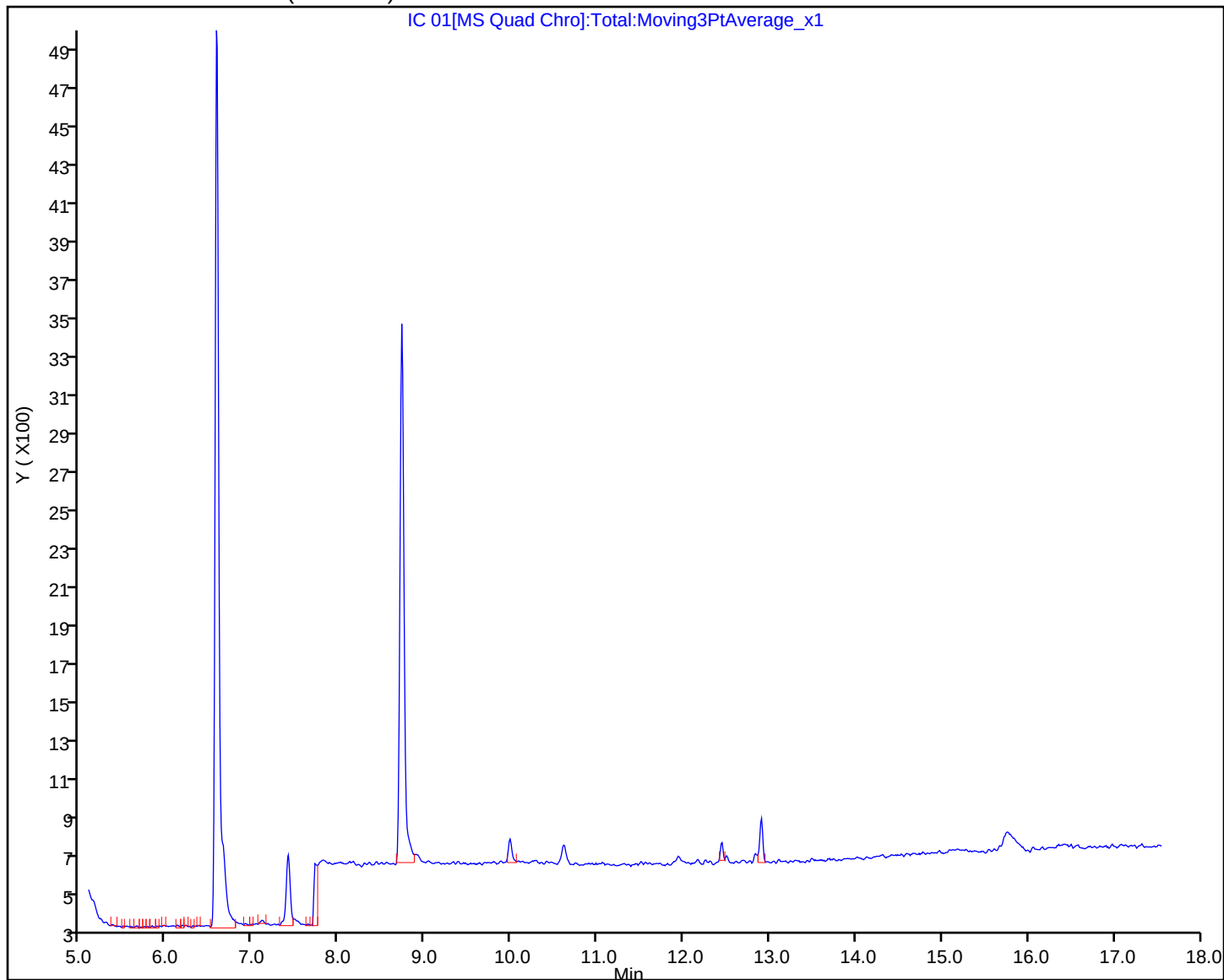
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 01.D

Injection Date: 17-Jun-2025 17:06:22

Instrument ID: GCMS-FE

Lims ID: IC 810-148416/8-A

Client ID:

Operator ID: BC

ALS Bottle#:

4

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

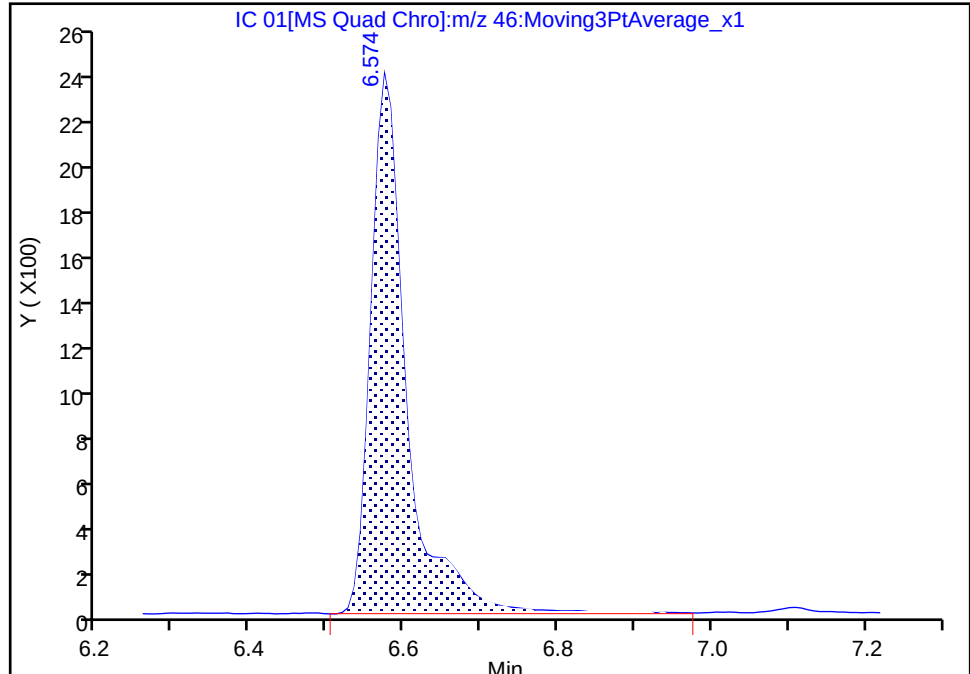
MS Quad

* 5 Tetrahydrofuran-d8, CAS: 1693-74-9

Signal: 1

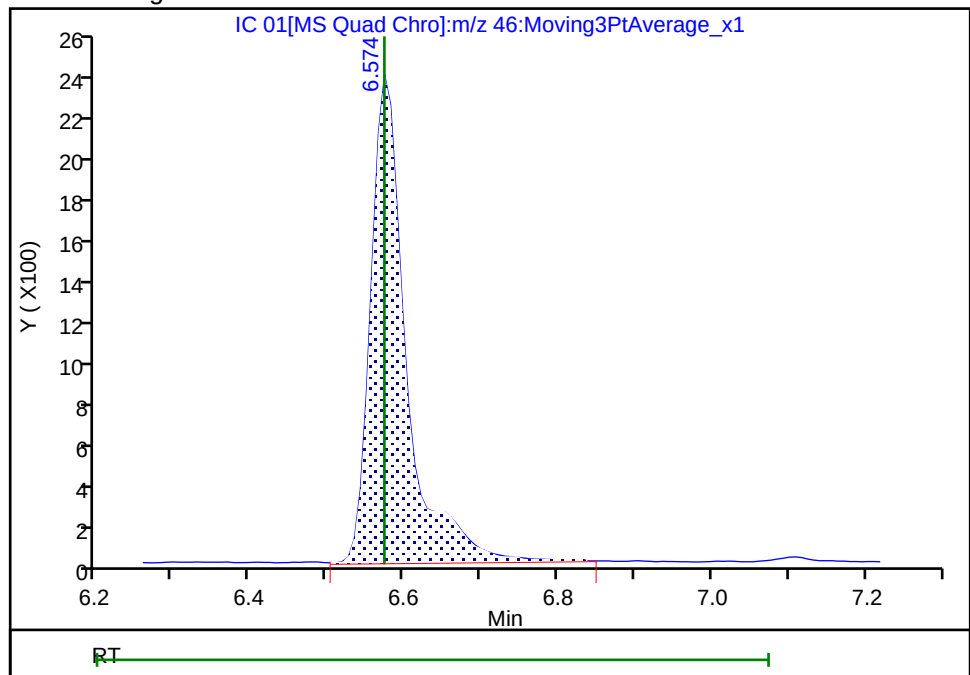
RT: 6.57
Area: 7564
Amount: 500.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.57
Area: 7512
Amount: 500.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 20-Jun-2025 11:53:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 01.D

Injection Date: 17-Jun-2025 17:06:22

Instrument ID: GCMS-FE

Lims ID: IC 810-148416/8-A

Client ID:

Operator ID: BC

ALS Bottle#:

4

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

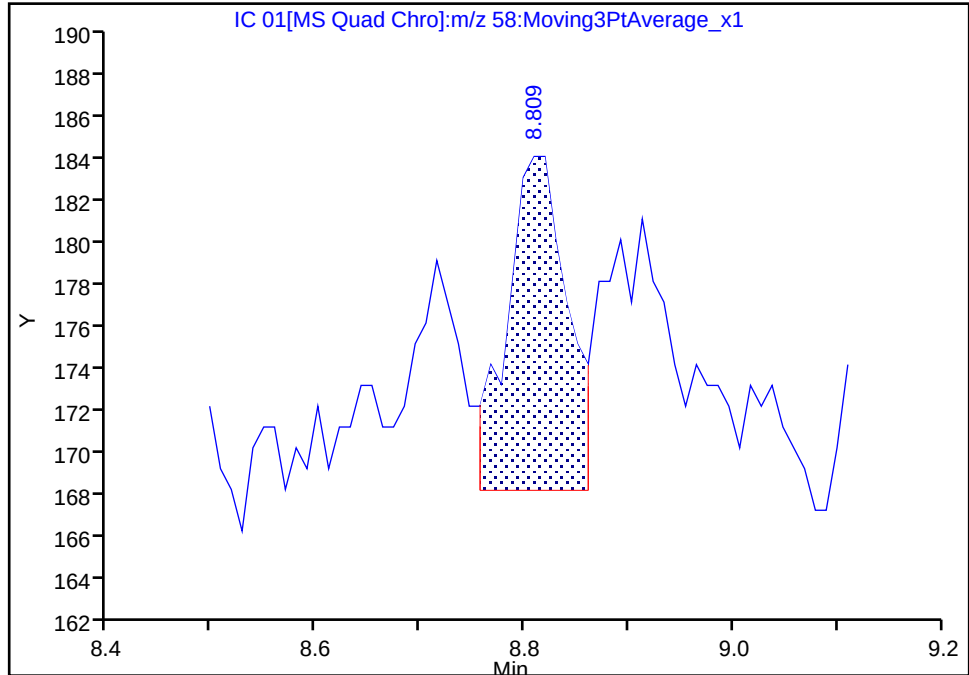
MS Quad

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

Signal: 2

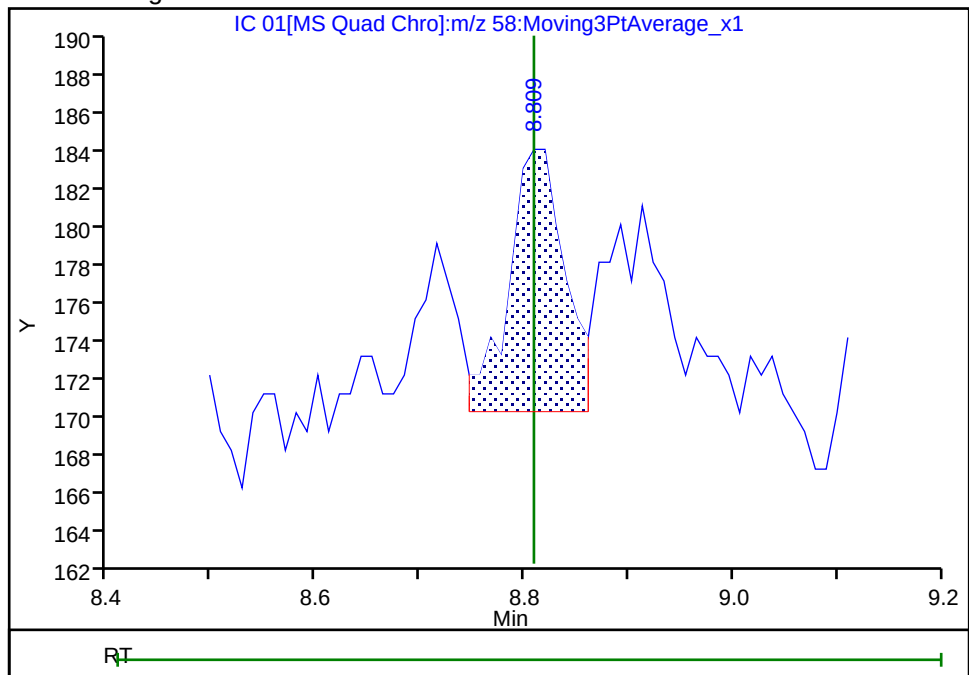
RT: 8.81
Area: 66
Amount: 4.222116
Amount Units: ug/l

Processing Integration Results



RT: 8.81
Area: 54
Amount: 5.310713
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 18-Jun-2025 07:13:45 -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-FE\20250617-38307.b\IC 02.D
 Lims ID: IC 810-148416/9-A
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 17-Jun-2025 17:28:19 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0038307-005
 Misc. Info.: IC 810-148416/9-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 20-Jun-2025 11:57:21 Calib Date: 17-Jun-2025 20:02:31
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: JH8B

Date: 18-Jun-2025 07:05:40

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	6.574	6.574	0.000	31	7514	500.0	500.0	M
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.726	8.725	0.001	94	4788	500.0	505.4	
11 1,4-Dioxane	88	8.809	8.809	0.000	81	157	10.0	11.7	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 02.D

Injection Date: 17-Jun-2025 17:28:19

Instrument ID: GCMS-FE

Lims ID: IC 810-148416/9-A

Client ID:

Operator ID: BC

ALS Bottle#:

5

Worklist Smp#:

5

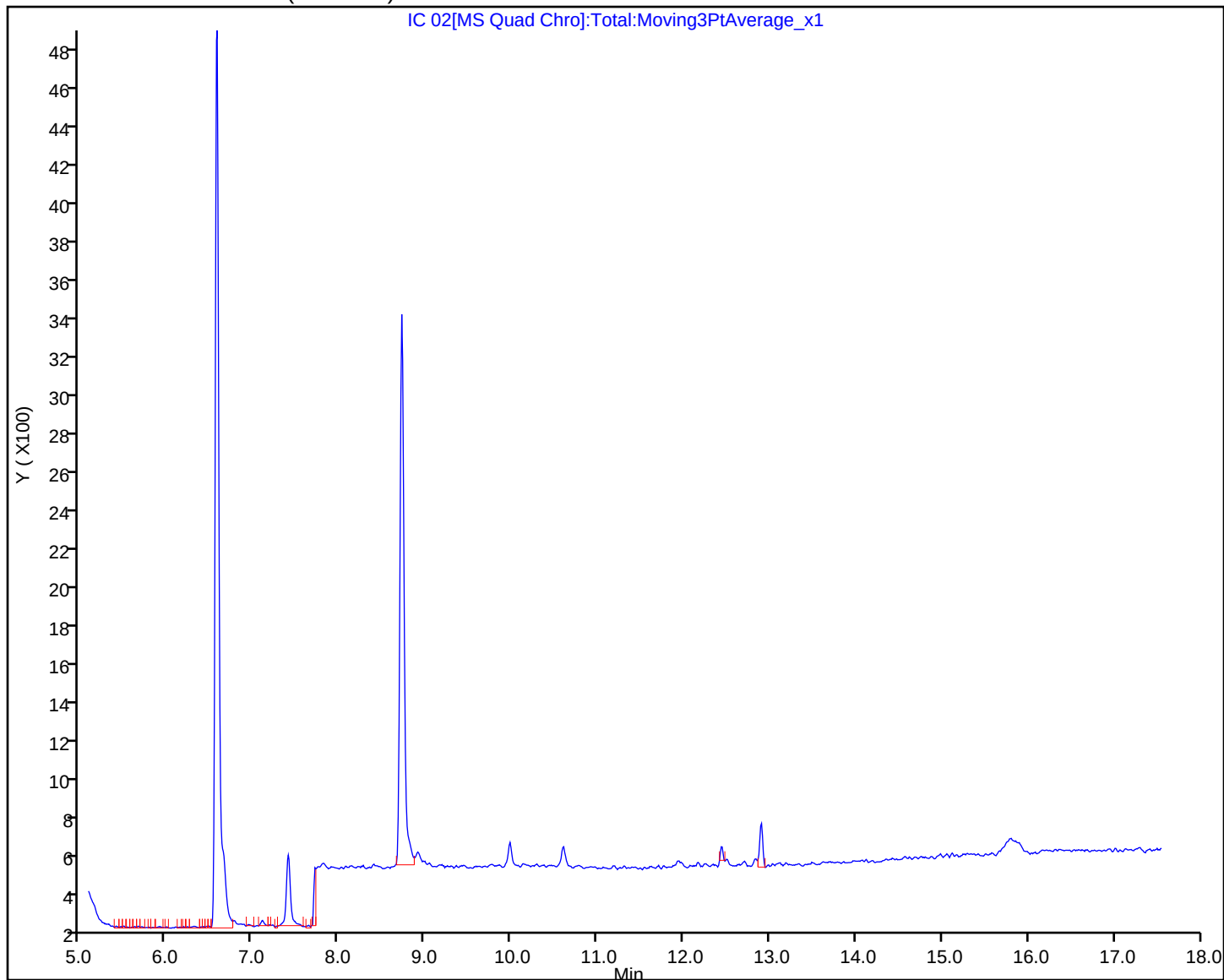
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 02.D

Injection Date: 17-Jun-2025 17:28:19

Instrument ID: GCMS-FE

Lims ID: IC 810-148416/9-A

Client ID:

Operator ID: BC

ALS Bottle#:

5

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

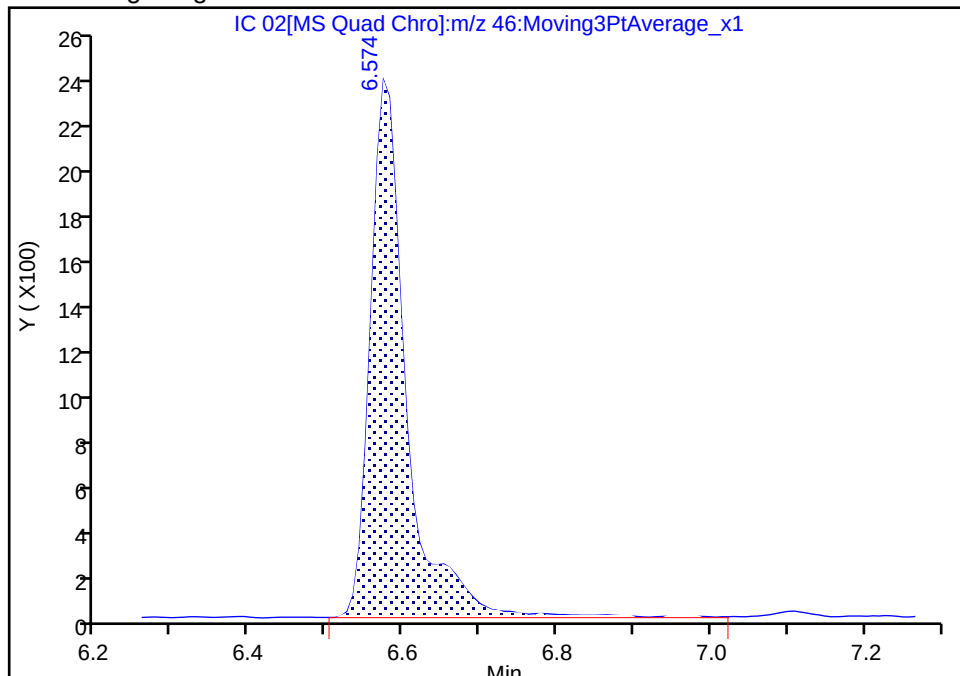
MS Quad

* 5 Tetrahydrofuran-d8, CAS: 1693-74-9

Signal: 1

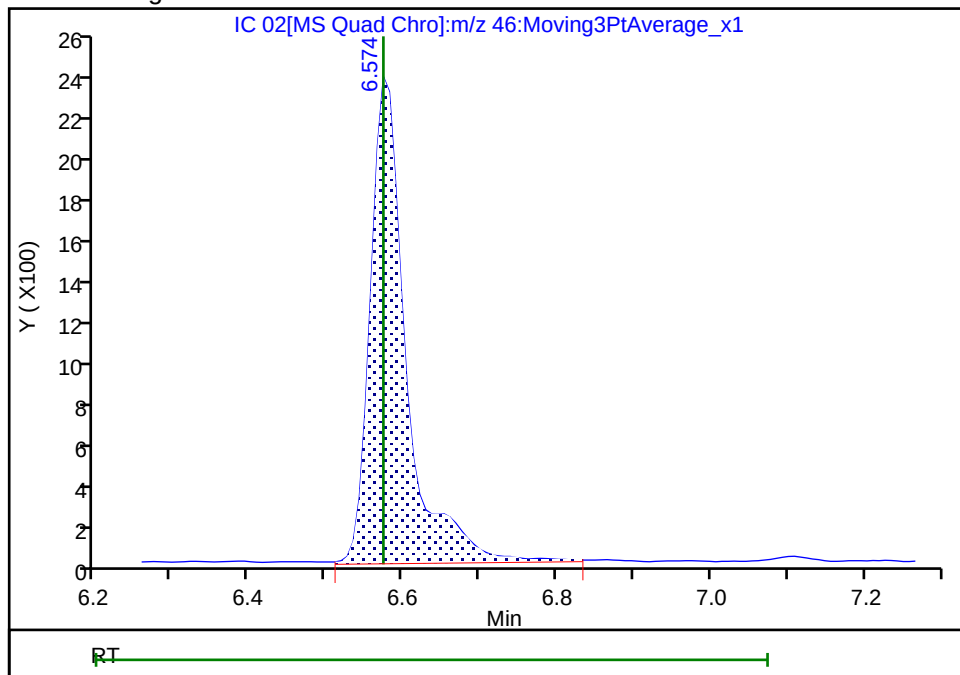
RT: 6.57
Area: 7476
Amount: 500.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.57
Area: 7514
Amount: 500.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 20-Jun-2025 11:53:48 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 02.D

Injection Date: 17-Jun-2025 17:28:19

Instrument ID: GCMS-FE

Lims ID: IC 810-148416/9-A

Client ID:

Operator ID: BC

ALS Bottle#:

5

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

MS Quad

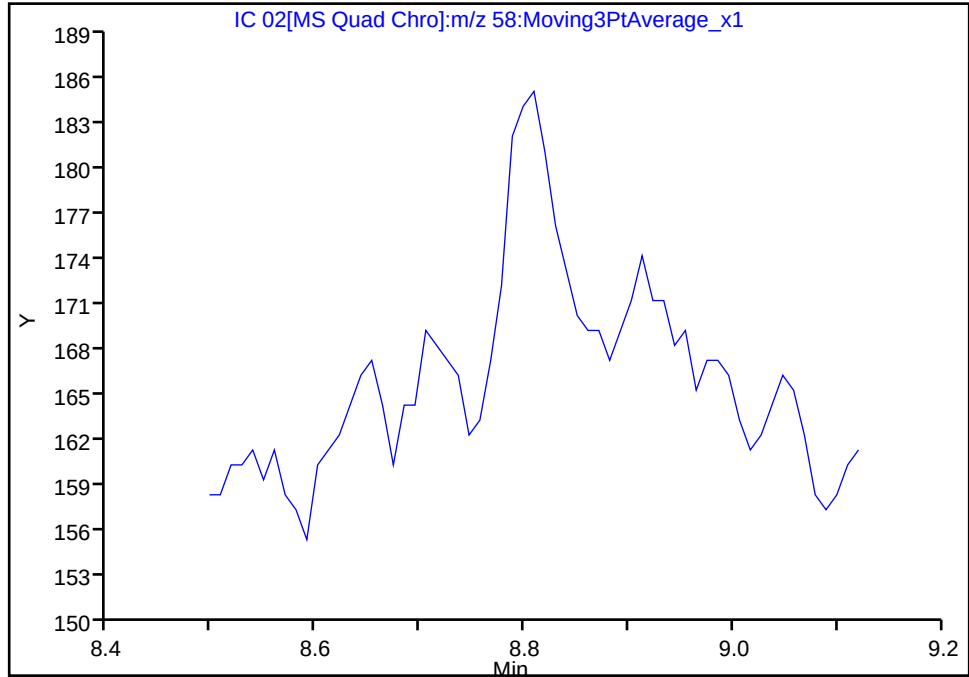
11 1,4-Dioxane, CAS: 123-91-1

Signal: 2

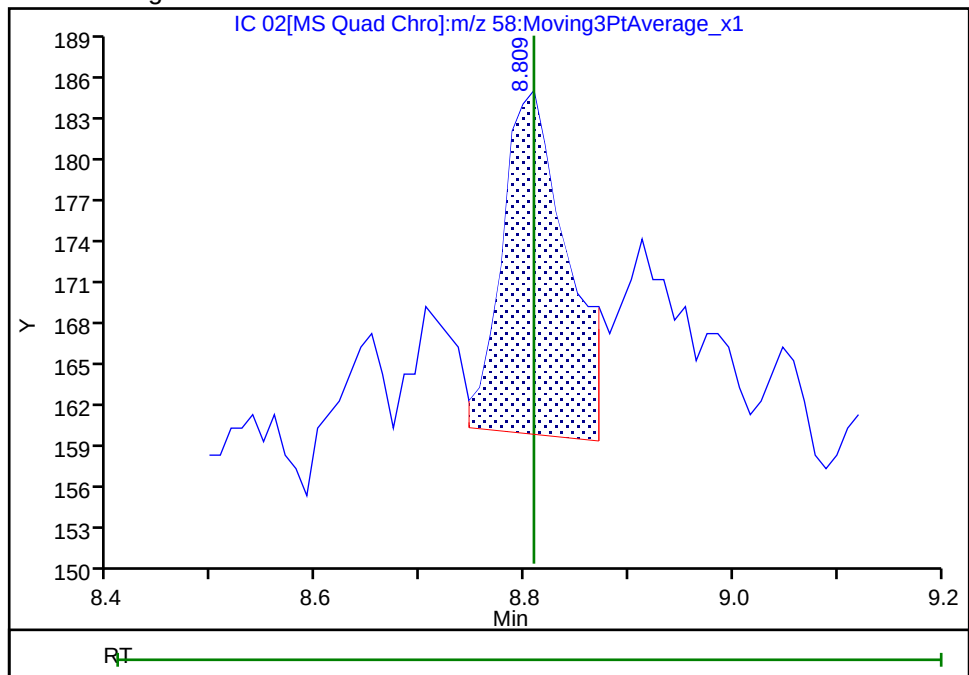
Not Detected

Expected RT: 8.81

Processing Integration Results



Manual Integration Results



RT: 8.81

Area: 112

Amount: 11.720861

Amount Units: ug/l

Reviewer: JH8B, 20-Jun-2025 06:19:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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Q2315

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Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 05.D
 Lims ID: IC 810-148416/10-A
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 17-Jun-2025 17:50:21 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0038307-006
 Misc. Info.: IC 810-148416/10-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 20-Jun-2025 11:57:22 Calib Date: 17-Jun-2025 20:02:31
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: JH8B

Date: 18-Jun-2025 07:05:54

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	6.582	6.574	0.008	26	7524	500.0	500.0	M
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.726	8.725	0.001	95	4789	500.0	504.8	
11 1,4-Dioxane	88	8.809	8.809	0.000	84	268	25.0	23.0	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 05.D

Injection Date: 17-Jun-2025 17:50:21

Instrument ID: GCMS-FE

Lims ID: IC 810-148416/10-A

Client ID:

Operator ID: BC

ALS Bottle#: 6

Worklist Smp#: 6

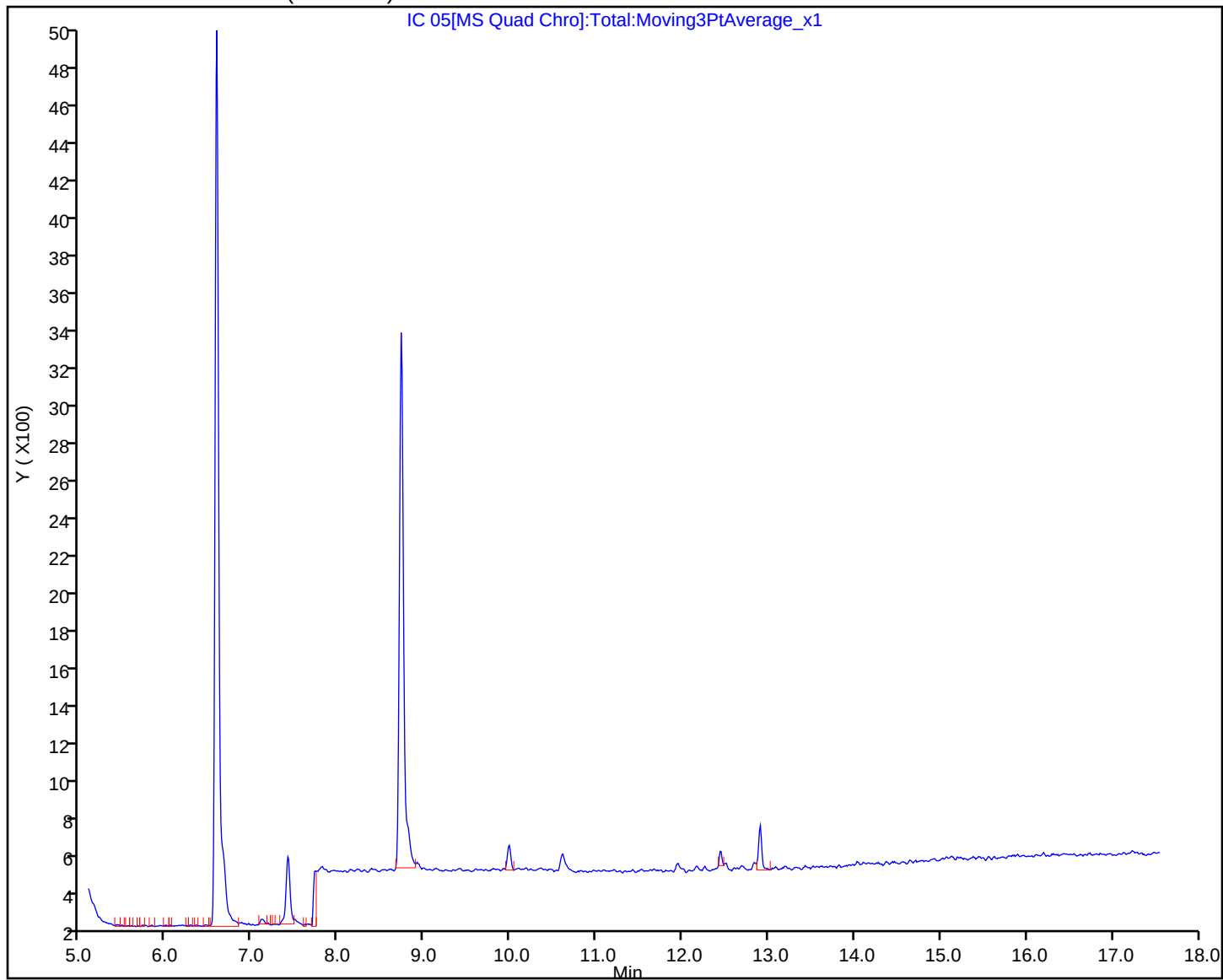
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 05.D

Injection Date: 17-Jun-2025 17:50:21

Instrument ID: GCMS-FE

Lims ID: IC 810-148416/10-A

Client ID:

Operator ID: BC

ALS Bottle#:

6

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

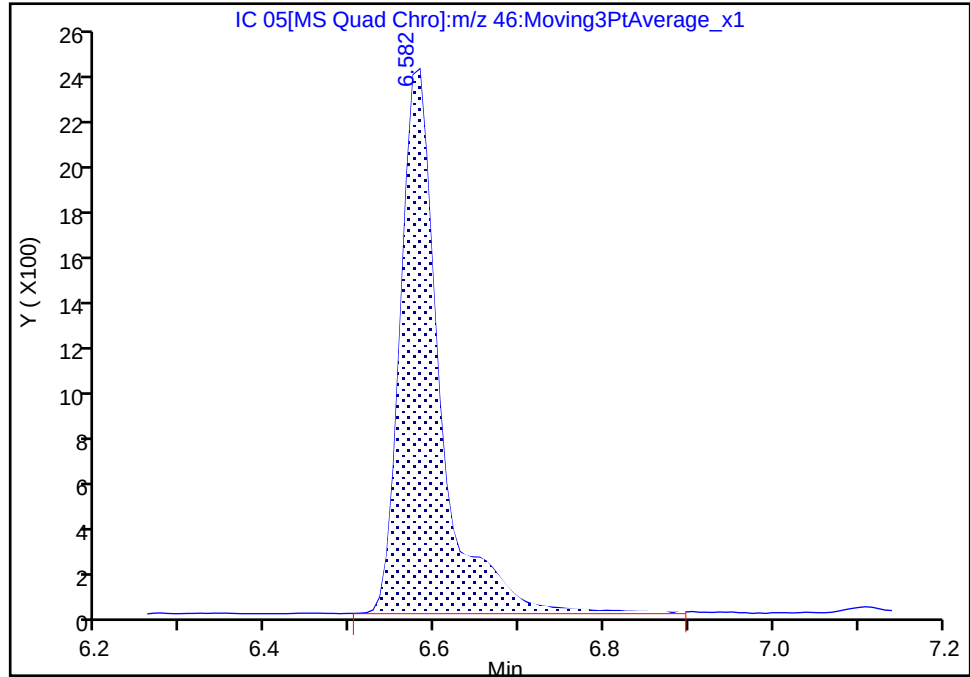
MS Quad

* 5 Tetrahydrofuran-d8, CAS: 1693-74-9

Signal: 1

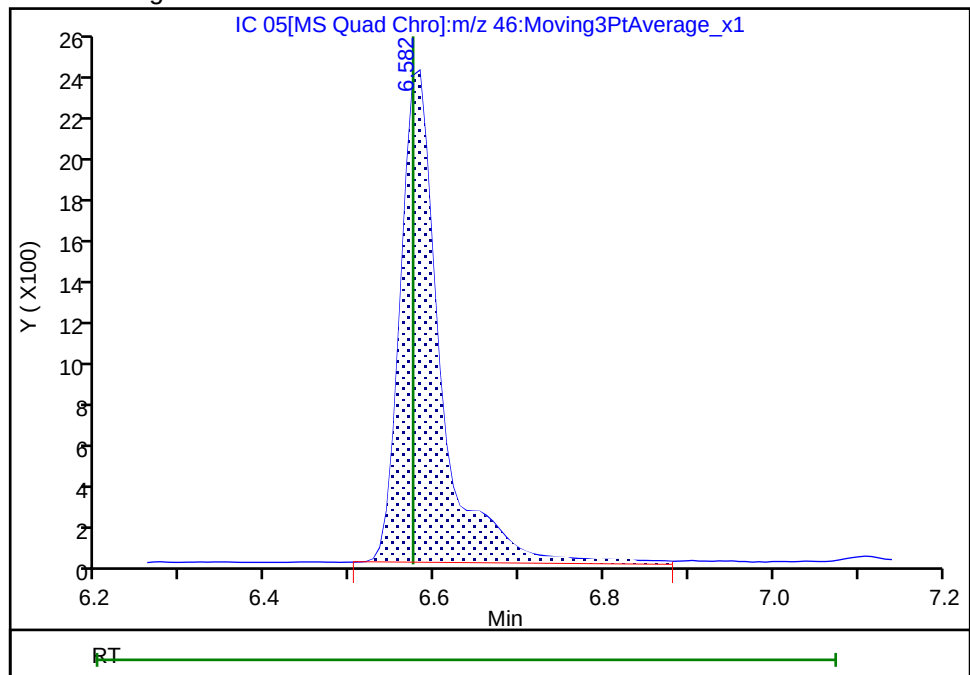
RT: 6.58
Area: 7471
Amount: 500.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.58
Area: 7524
Amount: 500.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 20-Jun-2025 11:54:02 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 05.D

Injection Date: 17-Jun-2025 17:50:21

Instrument ID: GCMS-FE

Lims ID: IC 810-148416/10-A

Client ID:

Operator ID: BC

ALS Bottle#:

6

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

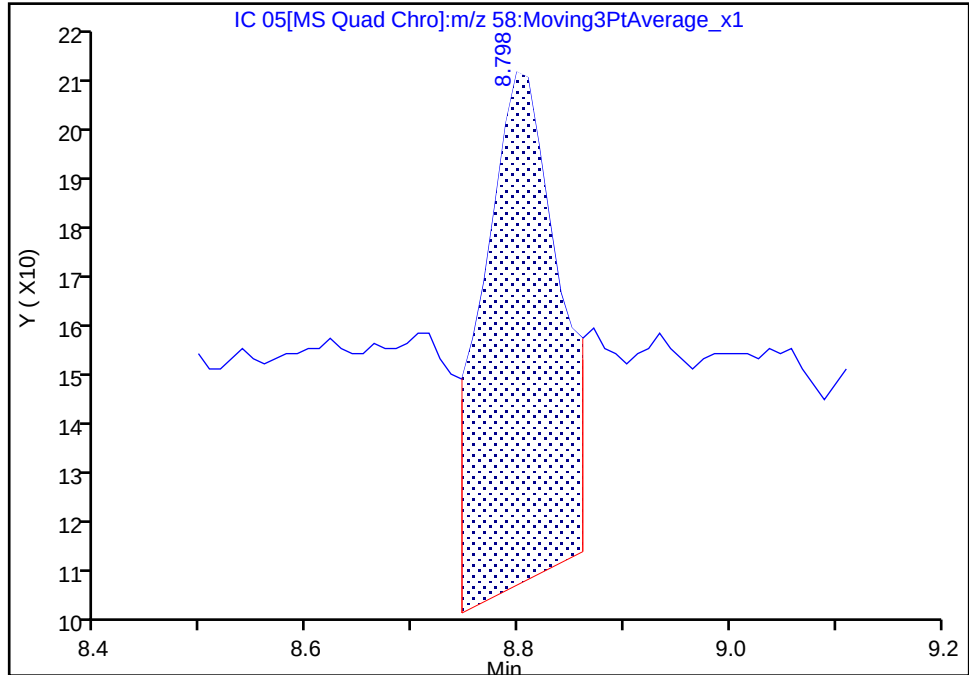
MS Quad

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

Signal: 2

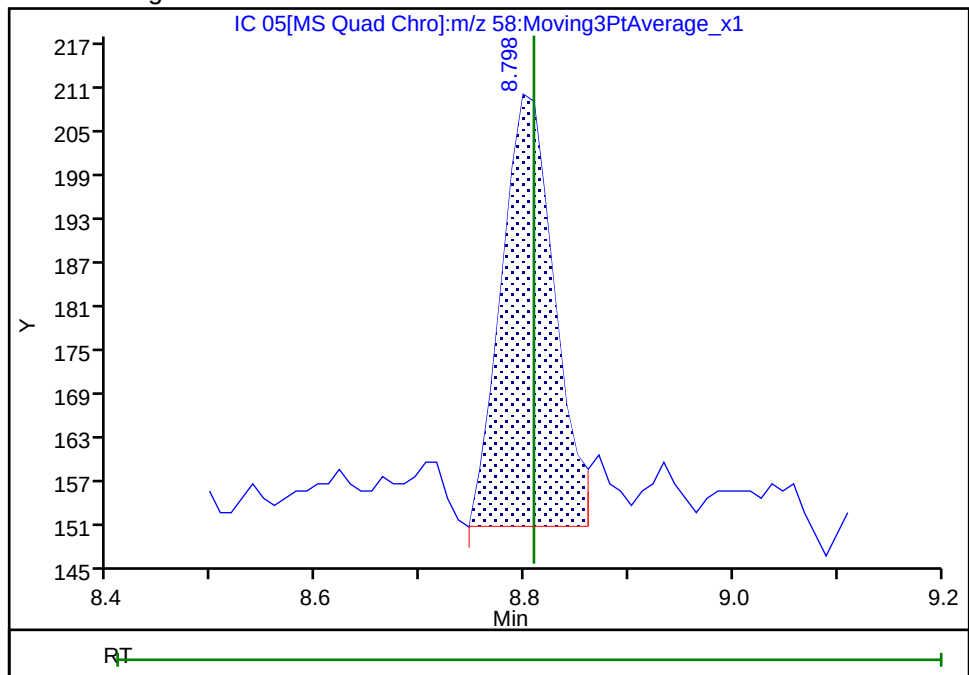
RT: 8.80
Area: 513
Amount: 23.302393
Amount Units: ug/l

Processing Integration Results



RT: 8.80
Area: 213
Amount: 22.983163
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 20-Jun-2025 06:19:56 -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-FE\20250617-38307.b\IC 1.D
 Lims ID: IC 810-148416/11-A
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 17-Jun-2025 18:12:30 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0038307-007
 Misc. Info.: IC 810-148416/11-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 20-Jun-2025 11:57:23 Calib Date: 17-Jun-2025 20:02:31
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: JH8B

Date: 18-Jun-2025 07:06:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.582	6.582	0.000	30	7797	500.0	500.0	M
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.725	8.725	0.000	94	4929	500.0	501.4	
11 1,4-Dioxane	88	8.809	8.809	0.000	81	548	50.0	49.5	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 1.D

Injection Date: 17-Jun-2025 18:12:30

Instrument ID: GCMS-FE

Lims ID: IC 810-148416/11-A

Client ID:

Operator ID: BC

ALS Bottle#:

7

Worklist Smp#:

7

Injection Vol: 1.0 ul

Dil. Factor:

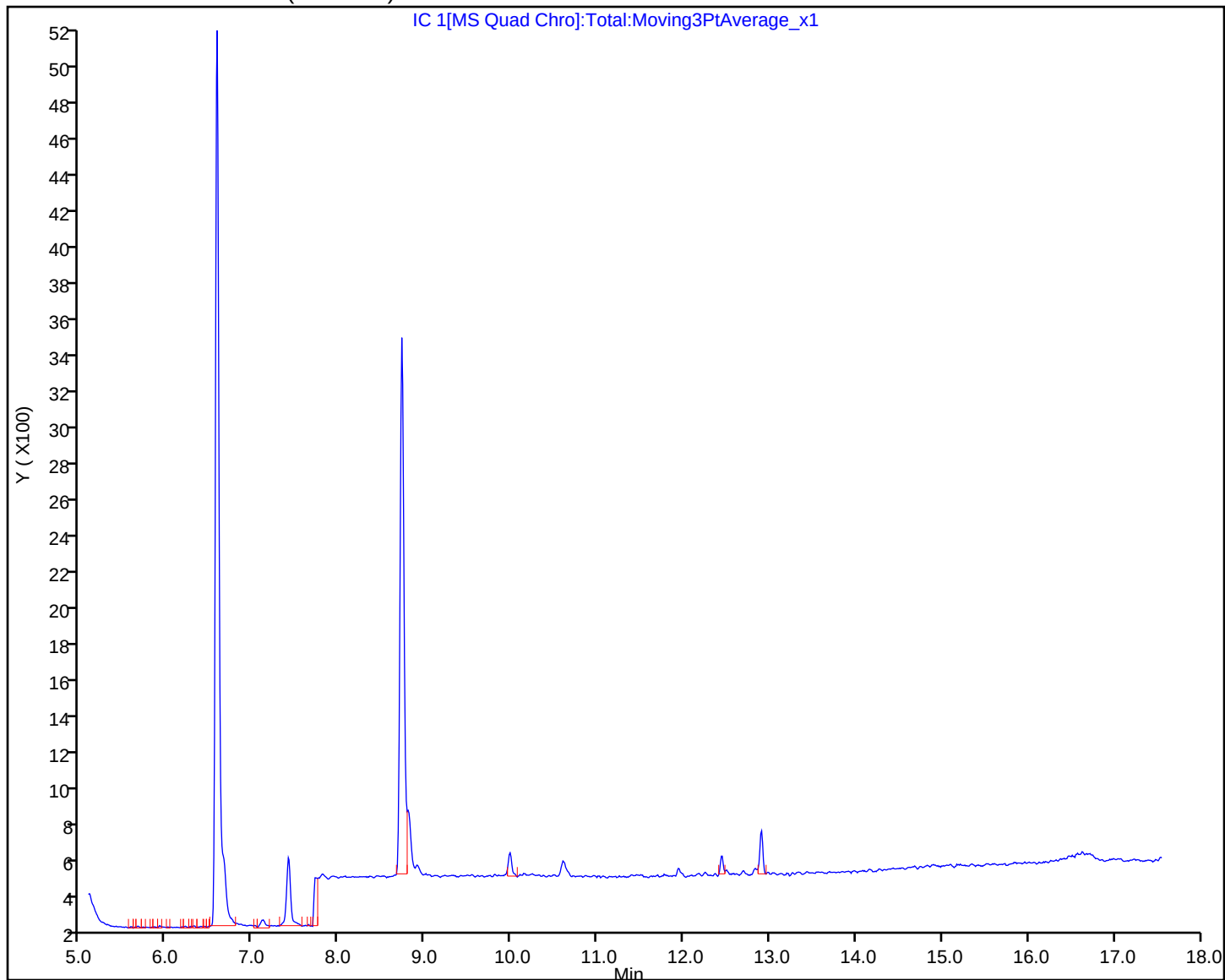
1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 1.D

Injection Date: 17-Jun-2025 18:12:30

Instrument ID: GCMS-FE

Lims ID: IC 810-148416/11-A

Client ID:

Operator ID: BC

ALS Bottle#:

7

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

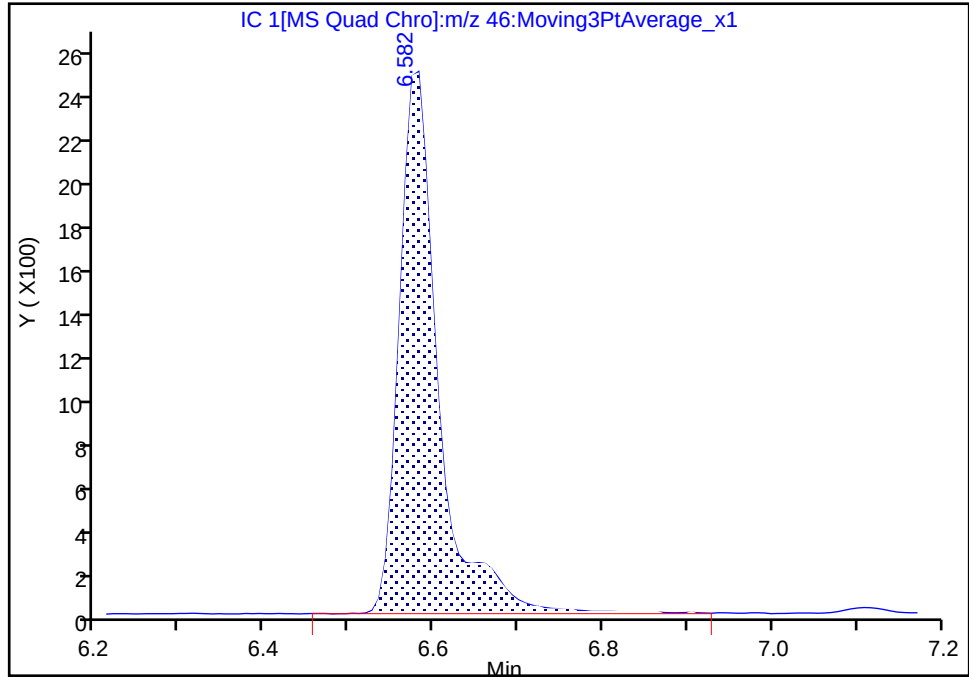
MS Quad

* 5 Tetrahydrofuran-d8, CAS: 1693-74-9

Signal: 1

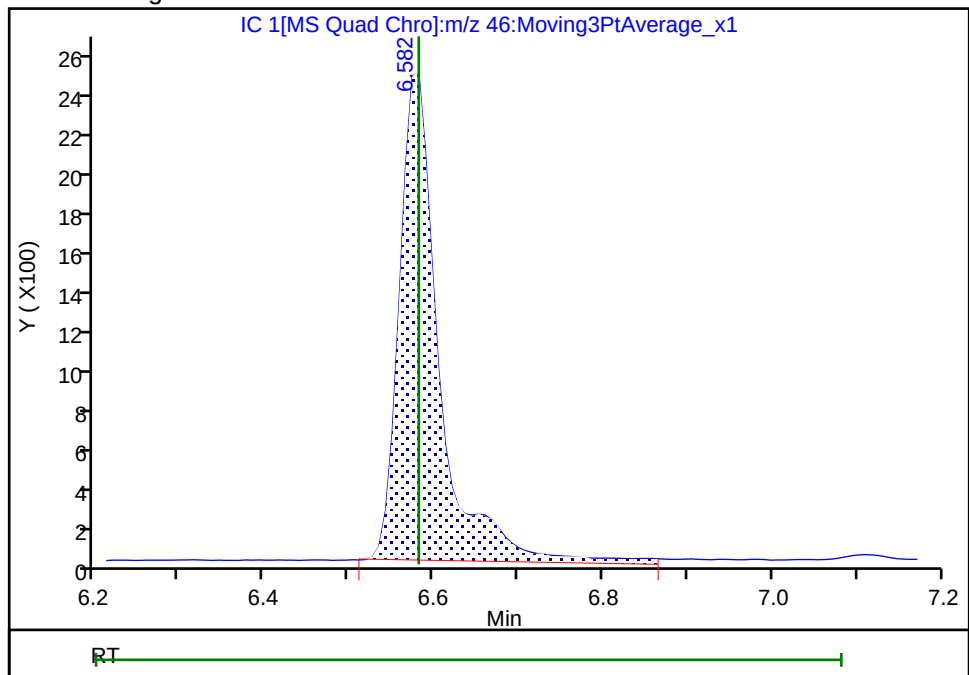
RT: 6.58
Area: 7656
Amount: 500.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.58
Area: 7797
Amount: 500.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 20-Jun-2025 11:54:26 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend

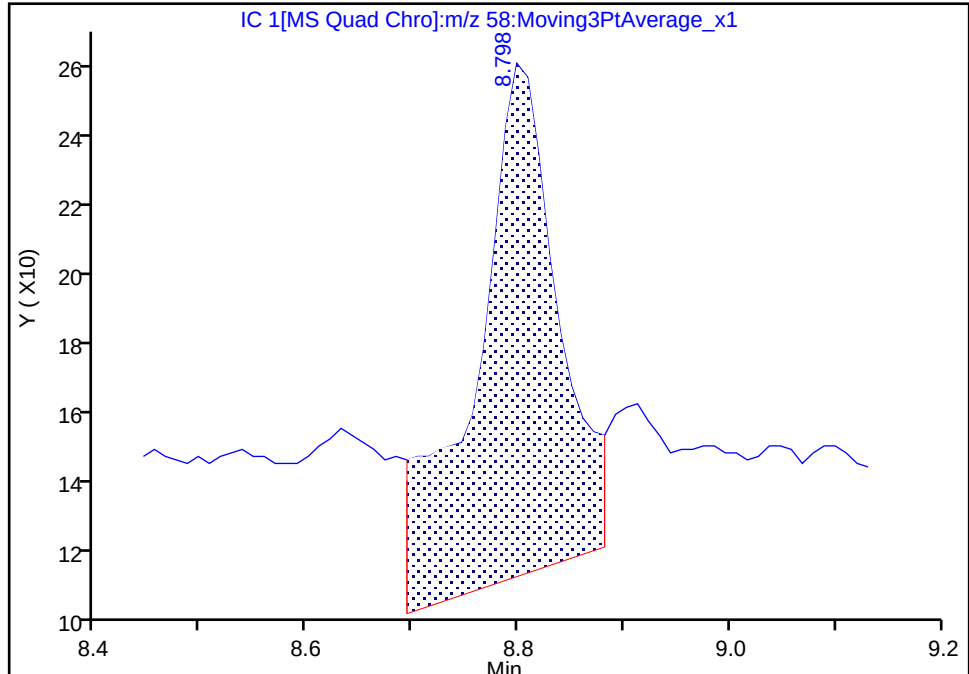
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 1.D
Injection Date: 17-Jun-2025 18:12:30 Instrument ID: GCMS-FE
Lims ID: IC 810-148416/11-A
Client ID:
Operator ID: BC ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector: MS Quad

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

Signal: 2

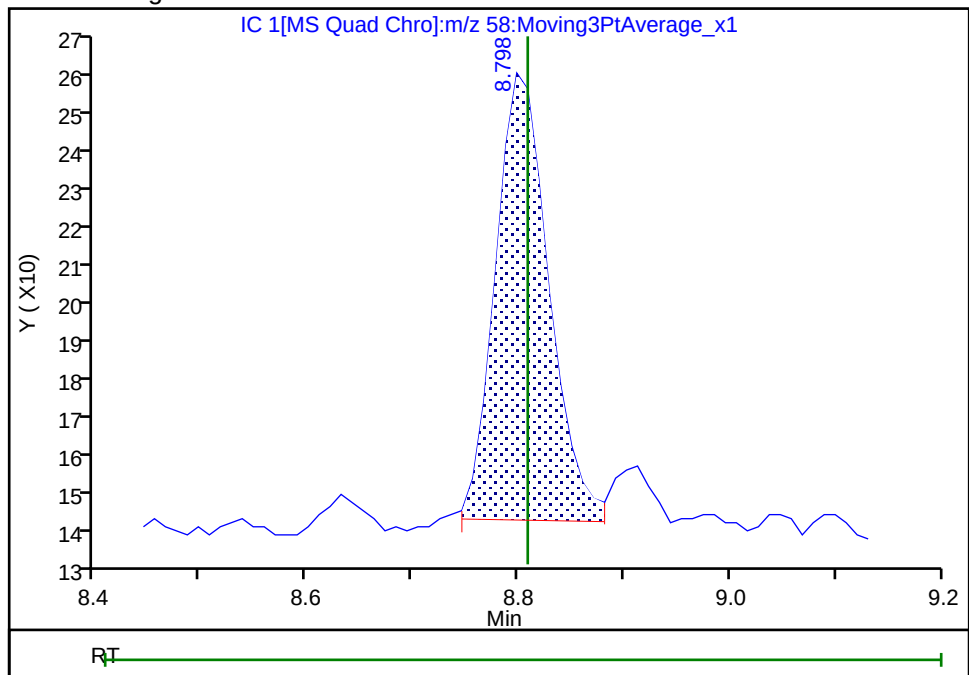
RT: 8.80
Area: 825
Amount: 49.992684
Amount Units: ug/l

Processing Integration Results



RT: 8.80
Area: 389
Amount: 49.495686
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 18-Jun-2025 07:12:14 -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-FE\20250617-38307.b\IC 2.D
 Lims ID: IC 810-148416/12-A
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 17-Jun-2025 18:34:31 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0038307-008
 Misc. Info.: IC 810-148416/12-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 20-Jun-2025 11:57:24 Calib Date: 17-Jun-2025 20:02:31
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: JH8B

Date: 18-Jun-2025 07:06:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.574	6.582	-0.008	29	7485	500.0	500.0	M
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.726	8.725	0.001	93	4764	500.0	504.8	
11 1,4-Dioxane	88	8.809	8.809	0.000	83	1005	100.0	98.4	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 2.D

Injection Date: 17-Jun-2025 18:34:31

Instrument ID: GCMS-FE

Lims ID: IC 810-148416/12-A

Client ID:

Operator ID: BC

ALS Bottle#: 8

Worklist Smp#: 8

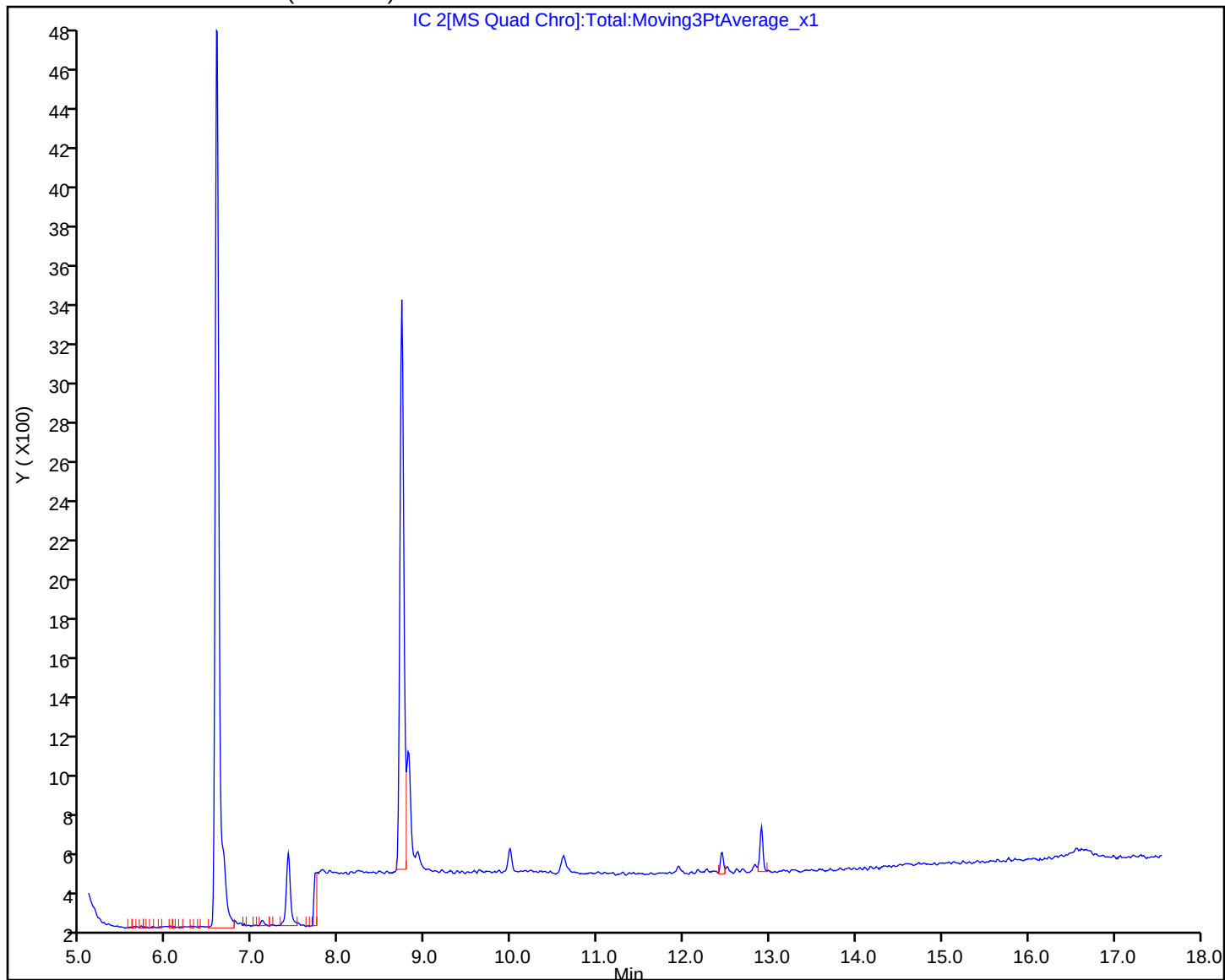
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 2.D

Injection Date: 17-Jun-2025 18:34:31

Instrument ID: GCMS-FE

Lims ID: IC 810-148416/12-A

Client ID:

Operator ID: BC

ALS Bottle#:

8

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

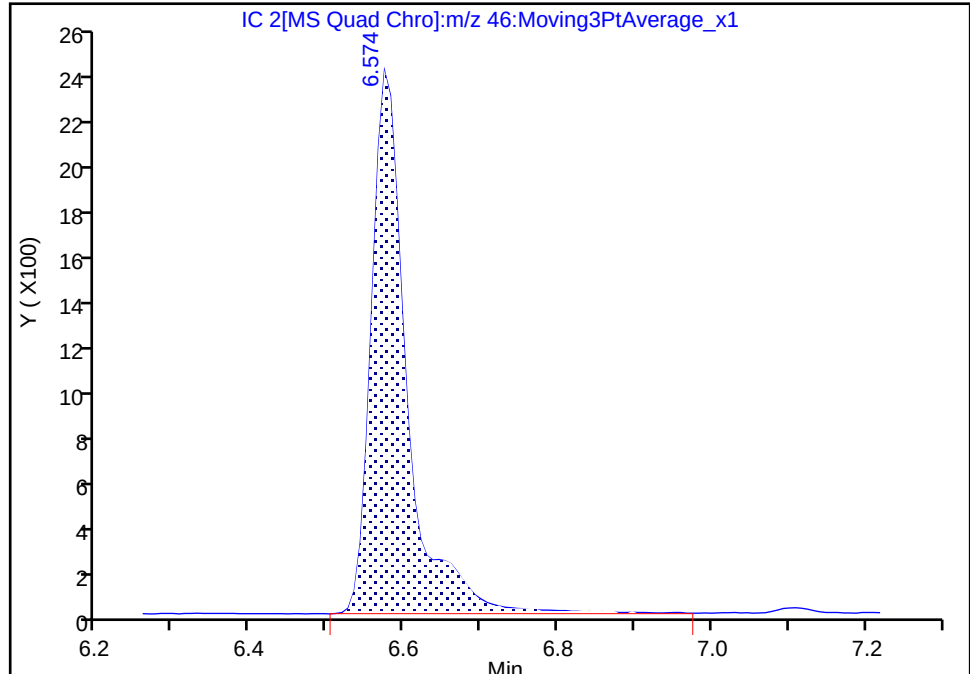
MS Quad

* 5 Tetrahydrofuran-d8, CAS: 1693-74-9

Signal: 1

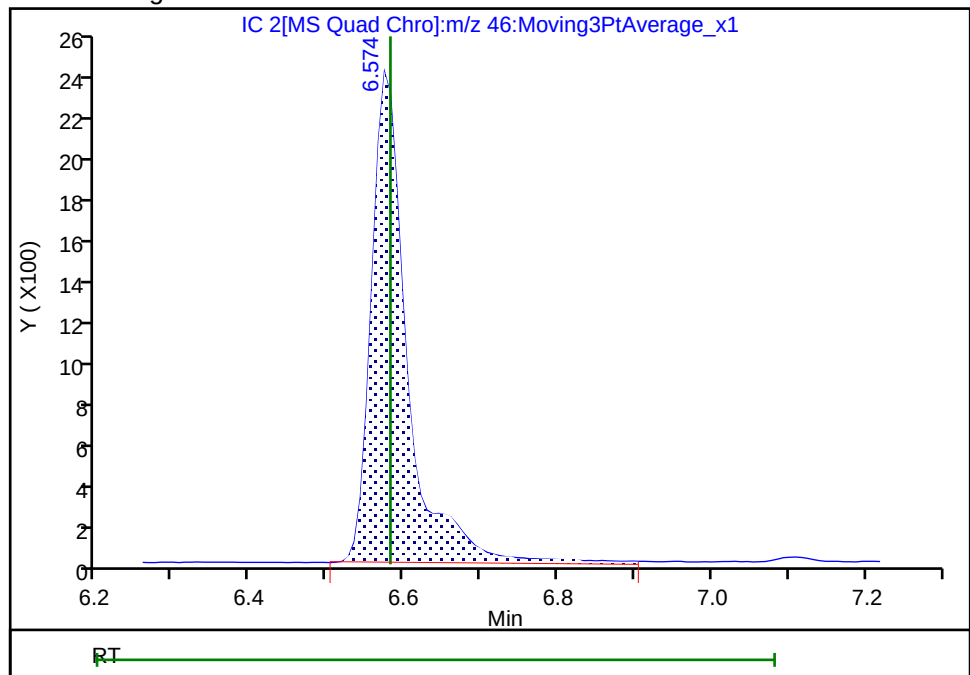
RT: 6.57
Area: 7468
Amount: 500.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.57
Area: 7485
Amount: 500.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 20-Jun-2025 11:54:51 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 2.D

Injection Date: 17-Jun-2025 18:34:31

Instrument ID: GCMS-FE

Lims ID: IC 810-148416/12-A

Client ID:

Operator ID: BC

ALS Bottle#:

8

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

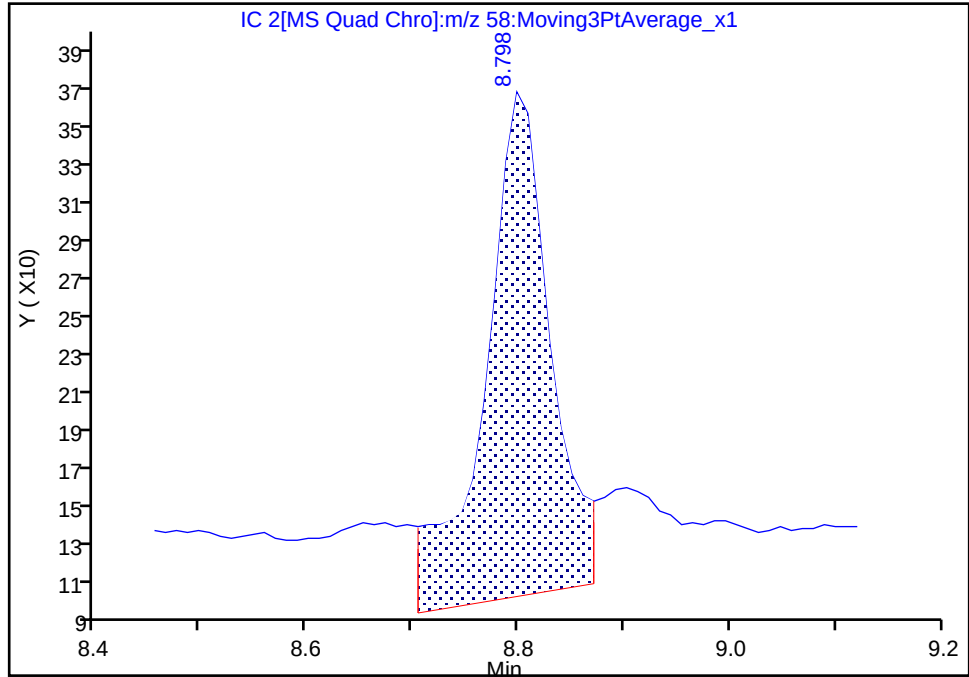
MS Quad

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

Signal: 2

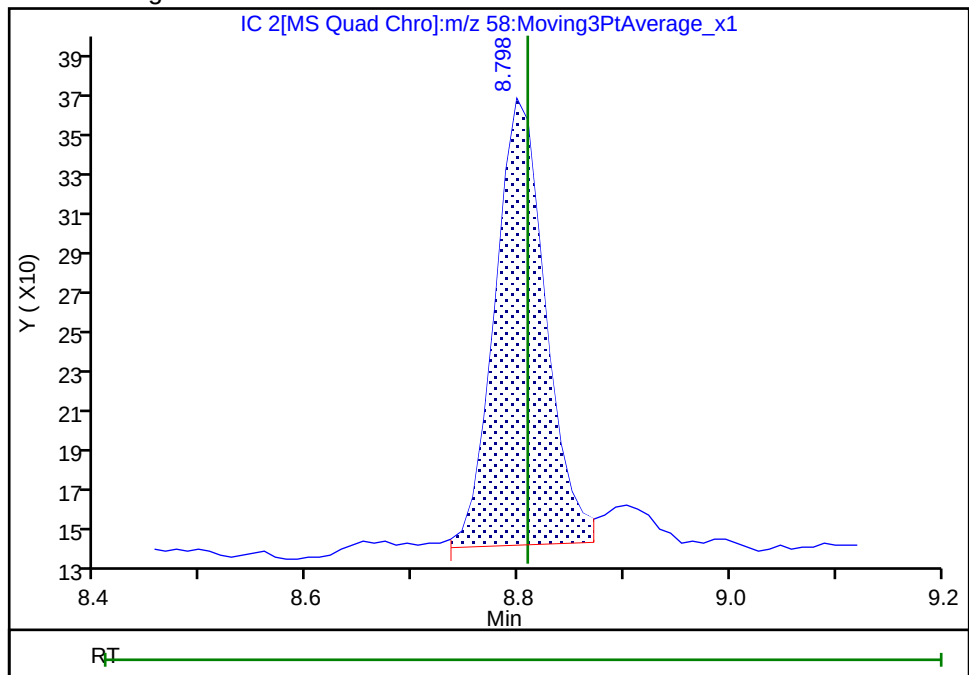
RT: 8.80
Area: 1139
Amount: 98.068812
Amount Units: ug/l

Processing Integration Results



RT: 8.80
Area: 741
Amount: 98.434119
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 18-Jun-2025 07:12:24 -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-FE\20250617-38307.b\IC 5.D
 Lims ID: IC 810-148416/13-A
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 17-Jun-2025 18:56:29 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0038307-009
 Misc. Info.: IC 810-148416/13-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 20-Jun-2025 11:57:25 Calib Date: 17-Jun-2025 20:02:31
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: JH8B

Date: 18-Jun-2025 07:06:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.574	6.582	-0.008	30	7543	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.726	8.725	0.001	94	4710	500.0	495.3	
11 1,4-Dioxane	88	8.809	8.809	0.000	85	2434	250.0	242.5	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 5.D

Injection Date: 17-Jun-2025 18:56:29

Instrument ID: GCMS-FE

Lims ID: IC 810-148416/13-A

Client ID:

Operator ID: BC

ALS Bottle#:

9

Worklist Smp#:

9

Injection Vol: 1.0 ul

Dil. Factor:

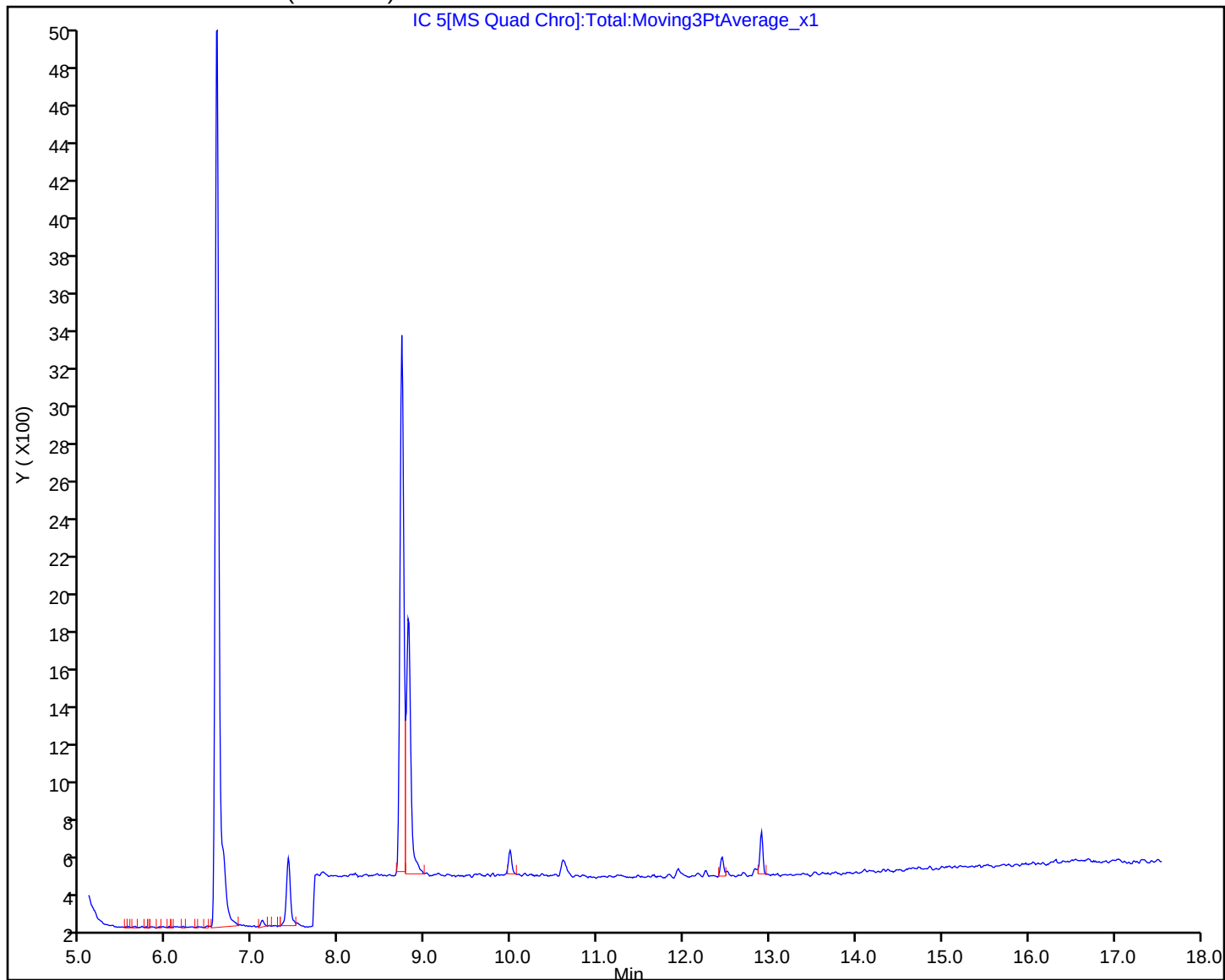
1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

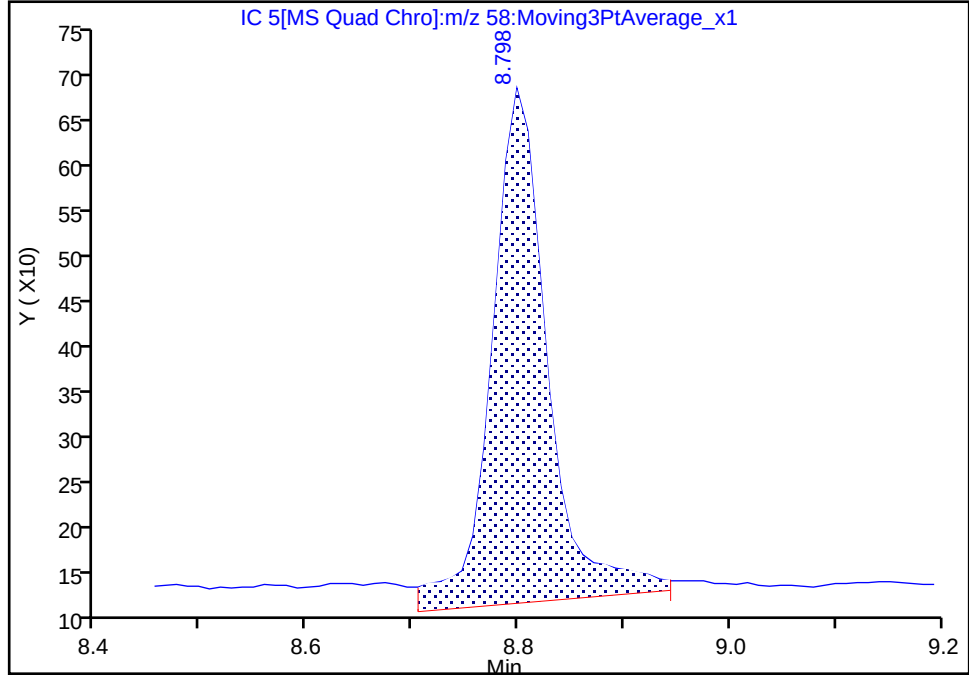
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 5.D
Injection Date: 17-Jun-2025 18:56:29 Instrument ID: GCMS-FE
Lims ID: IC 810-148416/13-A
Client ID:
Operator ID: BC ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector: MS Quad

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

Signal: 2

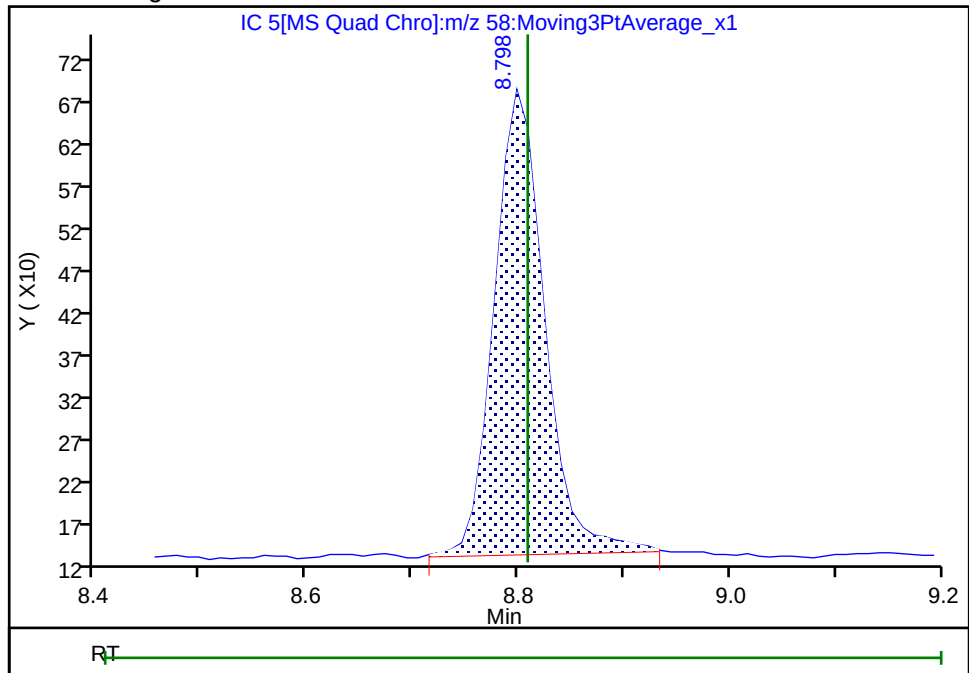
RT: 8.80
Area: 2117
Amount: 241.4275
Amount Units: ug/l

Processing Integration Results



RT: 8.80
Area: 1832
Amount: 242.5415
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 18-Jun-2025 07:12:31 -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-FE\20250617-38307.b\IC 10.D
 Lims ID: IC 810-148416/14-A
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 17-Jun-2025 19:18:26 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0038307-010
 Misc. Info.: IC 810-148416/16-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 20-Jun-2025 11:57:27 Calib Date: 17-Jun-2025 20:02:31
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: JH8B

Date: 18-Jun-2025 07:06:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.574	6.582	-0.008	26	7325	500.0	500.0	M
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.726	8.725	0.001	94	4694	500.0	508.3	
11 1,4-Dioxane	88	8.809	8.809	0.000	85	4988	500.0	516.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 10.D

Injection Date: 17-Jun-2025 19:18:26

Instrument ID: GCMS-FE

Lims ID: IC 810-148416/14-A

Client ID:

Operator ID: BC

ALS Bottle#: 10

Worklist Smp#: 10

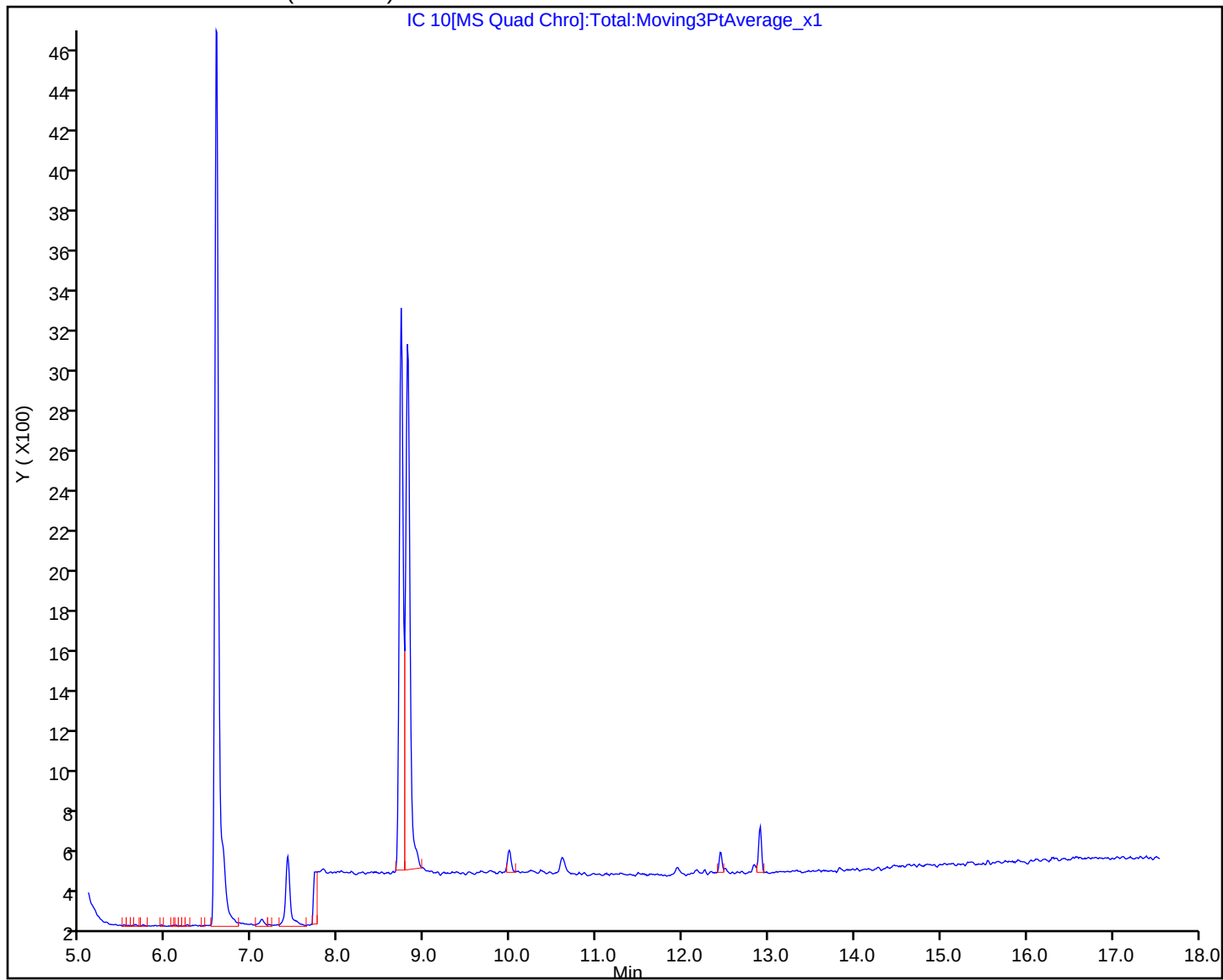
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 10.D

Injection Date: 17-Jun-2025 19:18:26

Instrument ID: GCMS-FE

Lims ID: IC 810-148416/14-A

Client ID:

Operator ID: BC

ALS Bottle#:

10

Worklist Smp#: 10

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

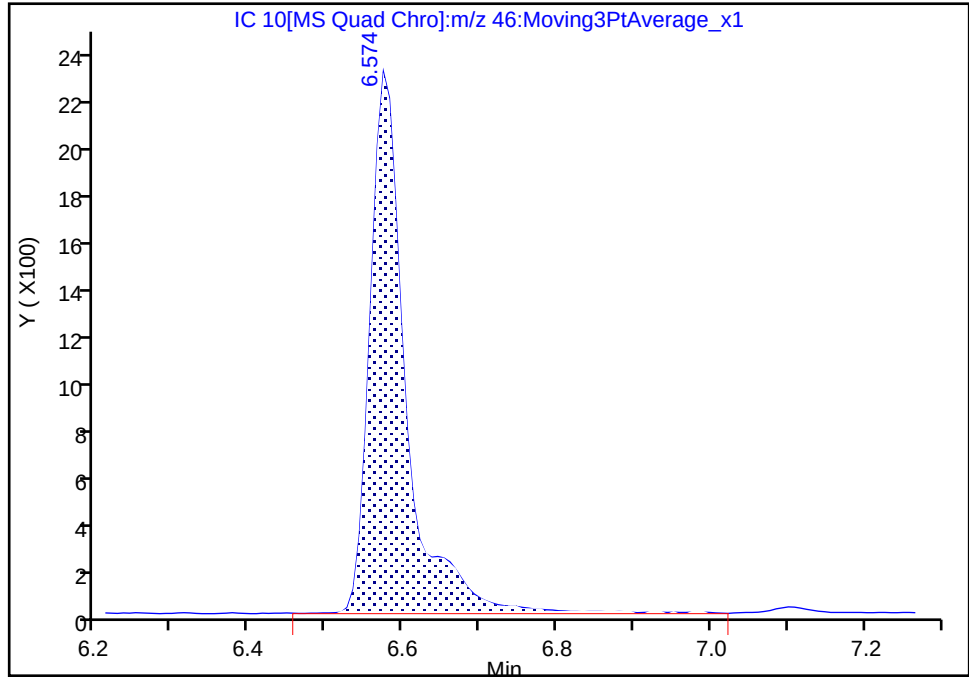
MS Quad

* 5 Tetrahydrofuran-d8, CAS: 1693-74-9

Signal: 1

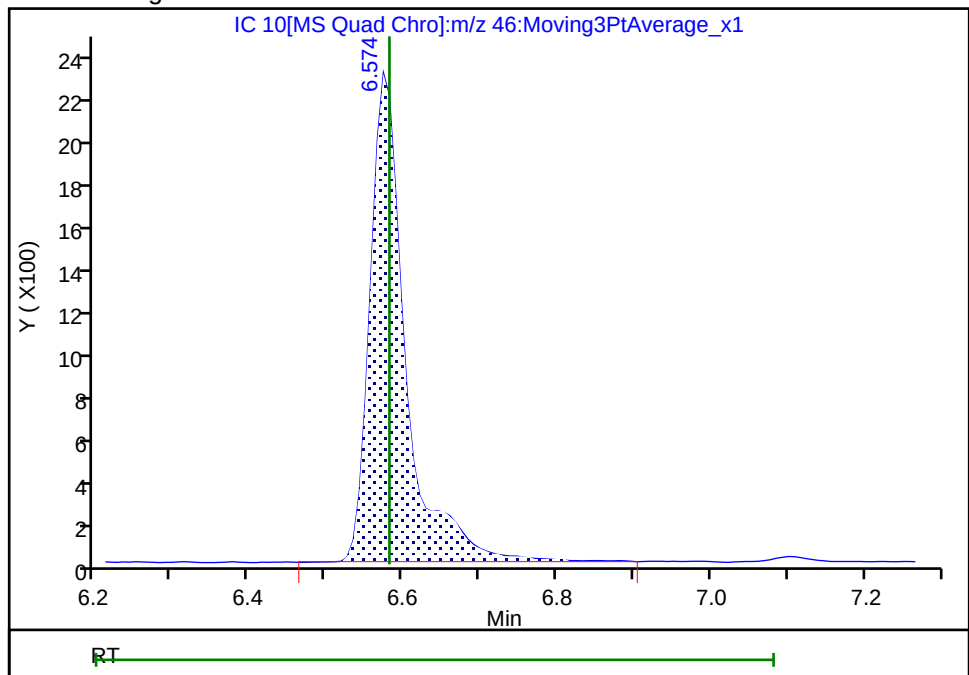
RT: 6.57
Area: 7340
Amount: 500.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.57
Area: 7325
Amount: 500.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 20-Jun-2025 11:55:28 -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-FE\20250617-38307.b\IC 20.D
 Lims ID: ICISAV 810-148416/15-A
 Client ID:
 Sample Type: ICISAV Calib Level: 9
 Inject. Date: 17-Jun-2025 19:40:38 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0038307-011
 Misc. Info.: ICISAV 810-148416/15-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 20-Jun-2025 11:57:28 Calib Date: 17-Jun-2025 20:02:31
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: JH8B

Date: 18-Jun-2025 07:07:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.574	6.574	0.000	26	7368	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.726	8.726	0.000	94	4715	500.0	507.6	
11 1,4-Dioxane	88	8.798	8.798	0.000	85	9888	1000.0	1022.2	

QC Flag Legend

Processing Flags

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 20.D

Injection Date: 17-Jun-2025 19:40:38

Instrument ID: GCMS-FE

Lims ID: ICISAV 810-148416/15-A

Client ID:

Operator ID: BC

ALS Bottle#: 11

Worklist Smp#: 11

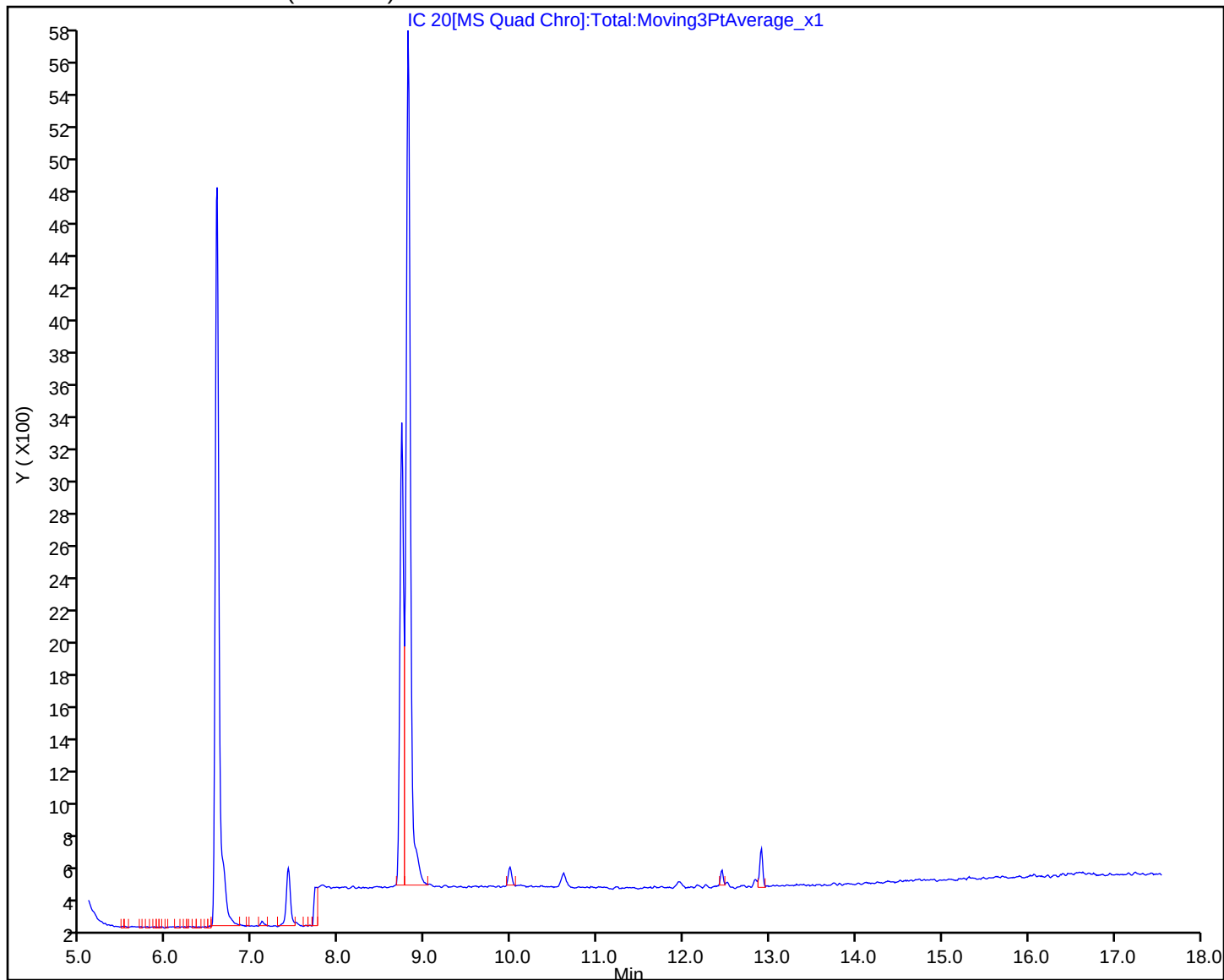
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
 Lims ID: IC 810-148416/16-A
 Client ID:
 Sample Type: IC Calib Level: 10
 Inject. Date: 17-Jun-2025 20:02:31 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0038307-012
 Misc. Info.: IC 810-148416/16-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 20-Jun-2025 11:57:29 Calib Date: 17-Jun-2025 20:02:31
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: JH8B

Date: 18-Jun-2025 07:07:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.574	6.574	0.000	26	7631	500.0	500.0	M
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.726	8.726	0.000	94	4793	500.0	498.2	
11 1,4-Dioxane	88	8.798	8.798	0.000	85	24699	2500.0	2471.3	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D

Injection Date: 17-Jun-2025 20:02:31

Instrument ID: GCMS-FE

Lims ID: IC 810-148416/16-A

Client ID:

Operator ID: BC

ALS Bottle#: 12

Worklist Smp#: 12

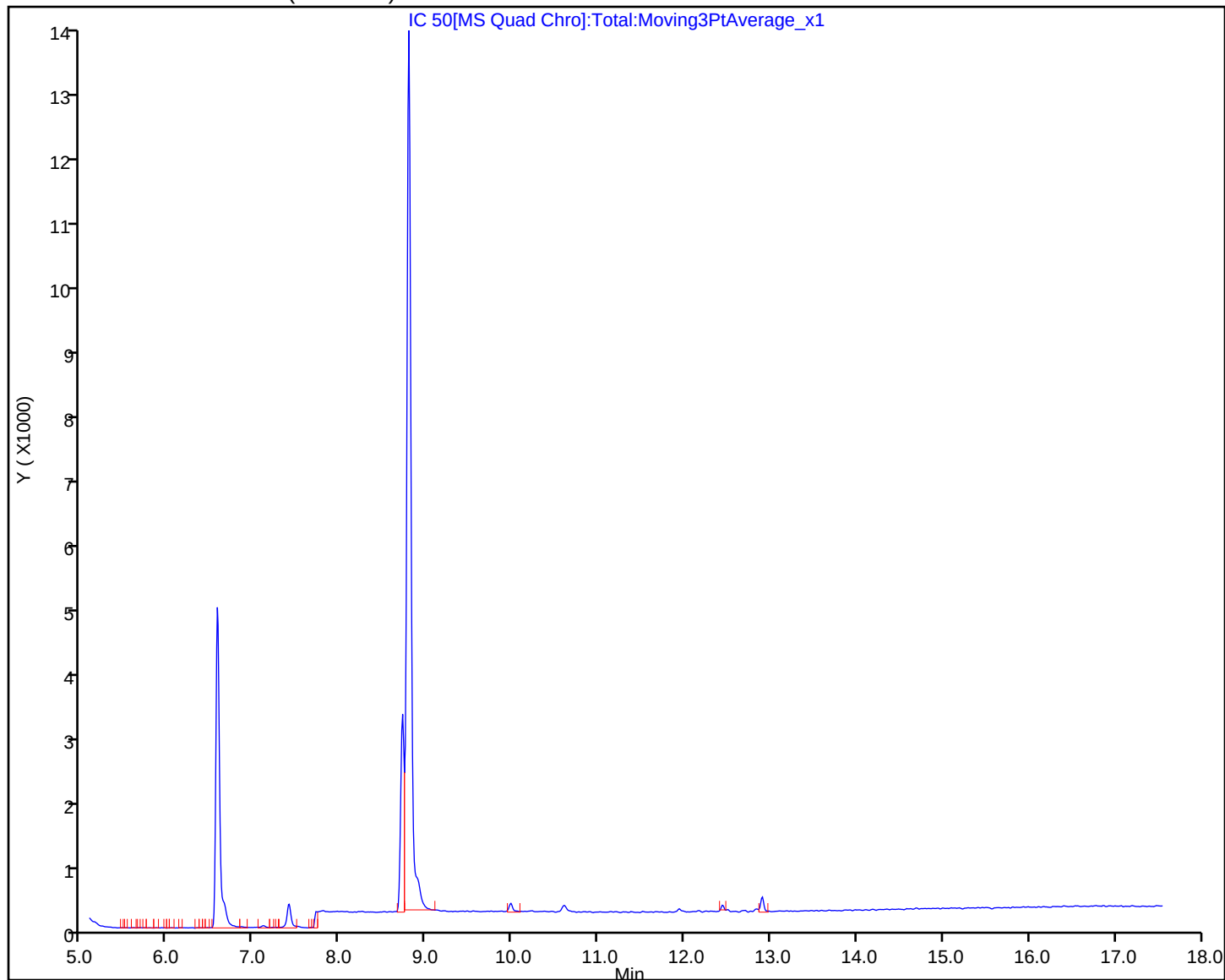
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D

Injection Date: 17-Jun-2025 20:02:31

Instrument ID: GCMS-FE

Lims ID: IC 810-148416/16-A

Client ID:

Operator ID: BC

ALS Bottle#:

12

Worklist Smp#: 12

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

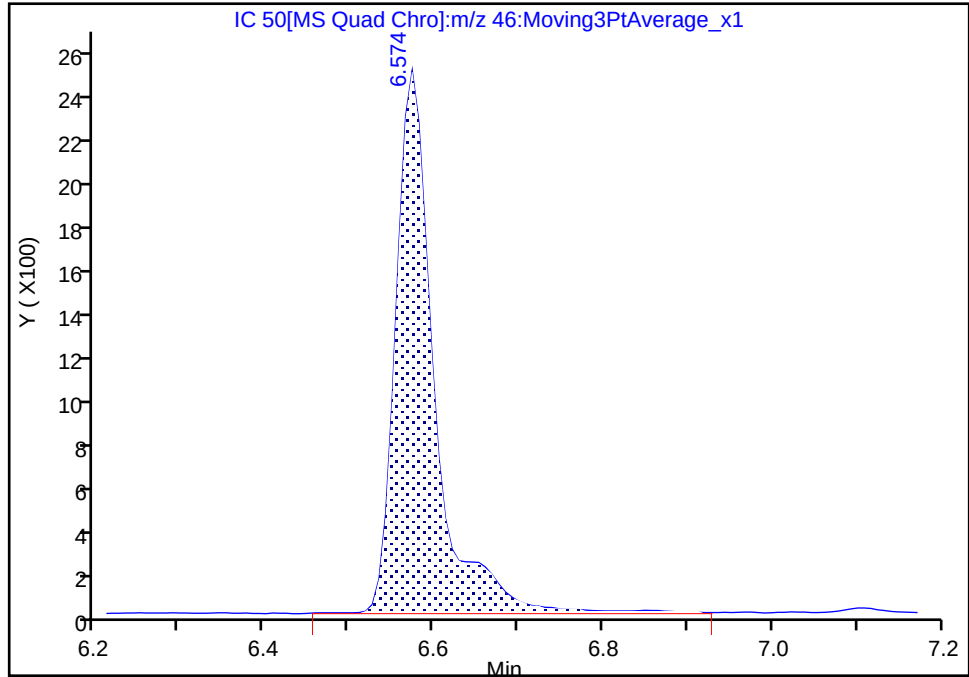
MS Quad

* 5 Tetrahydrofuran-d8, CAS: 1693-74-9

Signal: 1

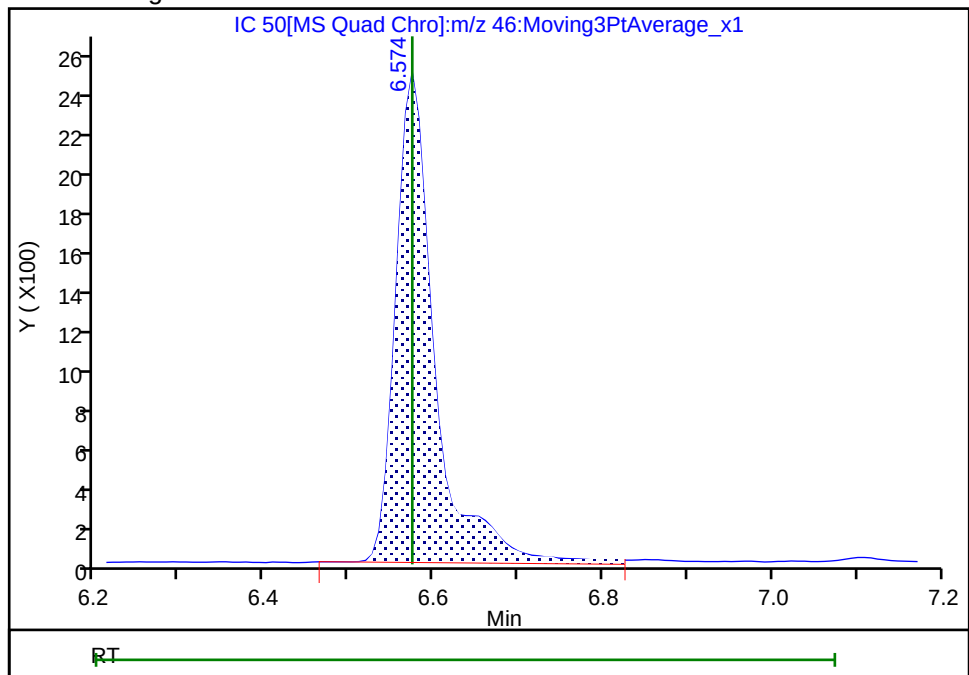
RT: 6.57
Area: 7594
Amount: 500.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.57
Area: 7631
Amount: 500.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 20-Jun-2025 11:56:08 -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-FE\20250617-38307.b\IC100.D
 Lims ID: IC 810-148416/17-A
 Client ID:
 Sample Type: IC Calib Level: 0
 Inject. Date: 17-Jun-2025 20:24:48 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0038307-013
 Misc. Info.: IC 810-148416/17-A
 Operator ID: BC Instrument ID: GCMS-FE
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 20-Jun-2025 11:57:30 Calib Date: 17-Jun-2025 20:02:31
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: JH8B

Date: 18-Jun-2025 07:07:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.574	6.574	0.000	26	7594	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.726	8.726	0.000	95	4797	500.0	501.0	
11 1,4-Dioxane	88	8.798	8.798	0.000	85	48791	5000.0	4909.8	E

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC100.D

Injection Date: 17-Jun-2025 20:24:48

Instrument ID: GCMS-FE

Lims ID: IC 810-148416/17-A

Client ID:

Operator ID: BC

ALS Bottle#: 13

Worklist Smp#: 13

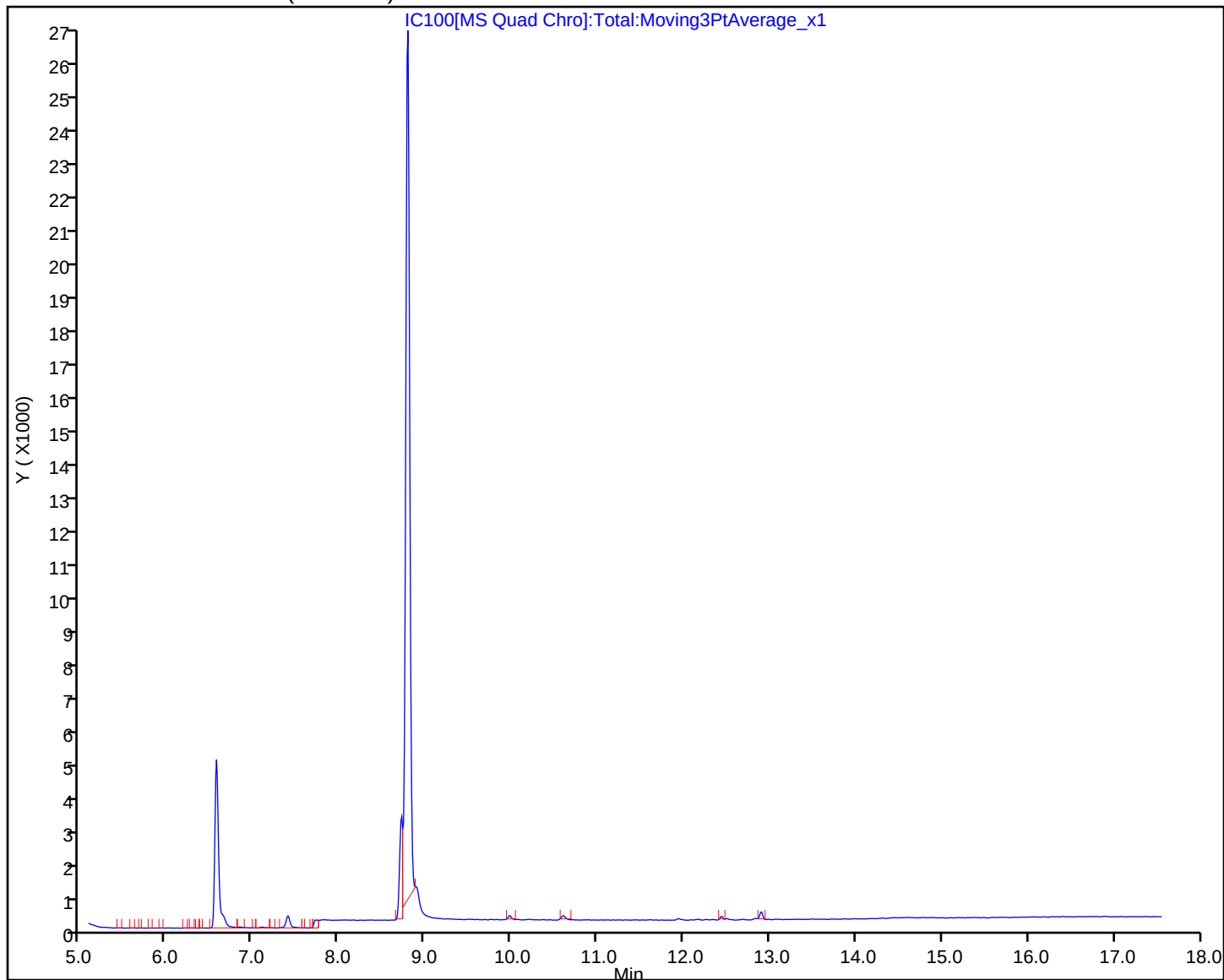
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



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

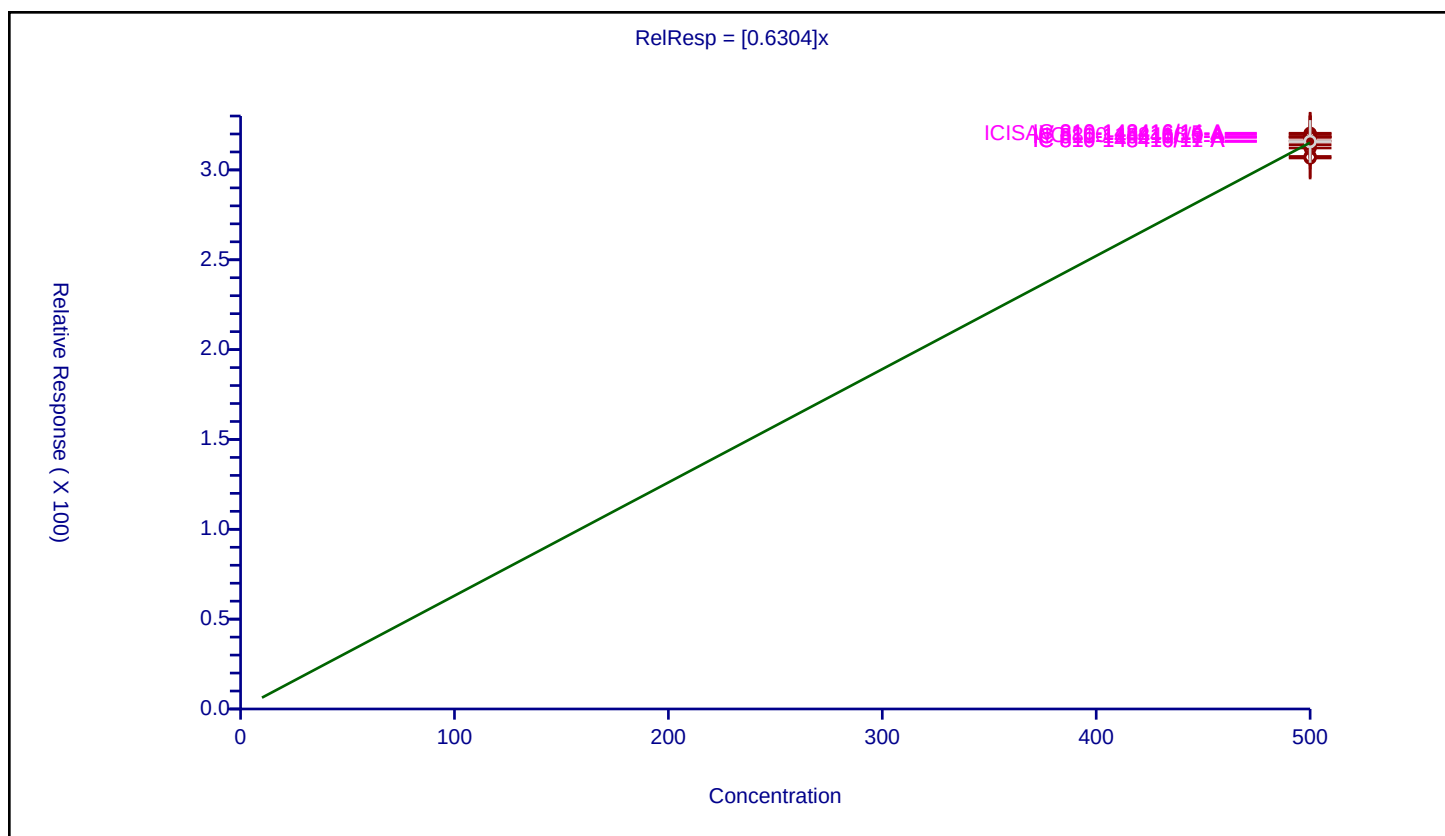
Curve Coefficients

Intercept: 0
Slope: 0.6304

Error Coefficients

Relative Standard Deviation: 1.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 810-148416/7-A	500.0	306.64794	500.0	7476.0	0.613296	Y
2	IC 810-148416/8-A	500.0	307.507987	500.0	7512.0	0.615016	Y
3	IC 810-148416/9-A	500.0	318.60527	500.0	7514.0	0.637211	Y
4	IC 810-148416/10-A	500.0	318.248272	500.0	7524.0	0.636497	Y
5	IC 810-148416/11-A	500.0	316.083109	500.0	7797.0	0.632166	Y
6	IC 810-148416/12-A	500.0	318.236473	500.0	7485.0	0.636473	Y
7	IC 810-148416/13-A	500.0	312.209996	500.0	7543.0	0.62442	Y
8	IC 810-148416/14-A	500.0	320.409556	500.0	7325.0	0.640819	Y
9	ICISAV 810-148416/15-A	500.0	319.964712	500.0	7368.0	0.639929	Y
10	IC 810-148416/16-A	500.0	314.047962	500.0	7631.0	0.628096	Y
11	IC 810-148416/17-A	500.0	315.841454	500.0	7594.0	0.631683	N



Calibration

/ 1,4-Dioxane

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

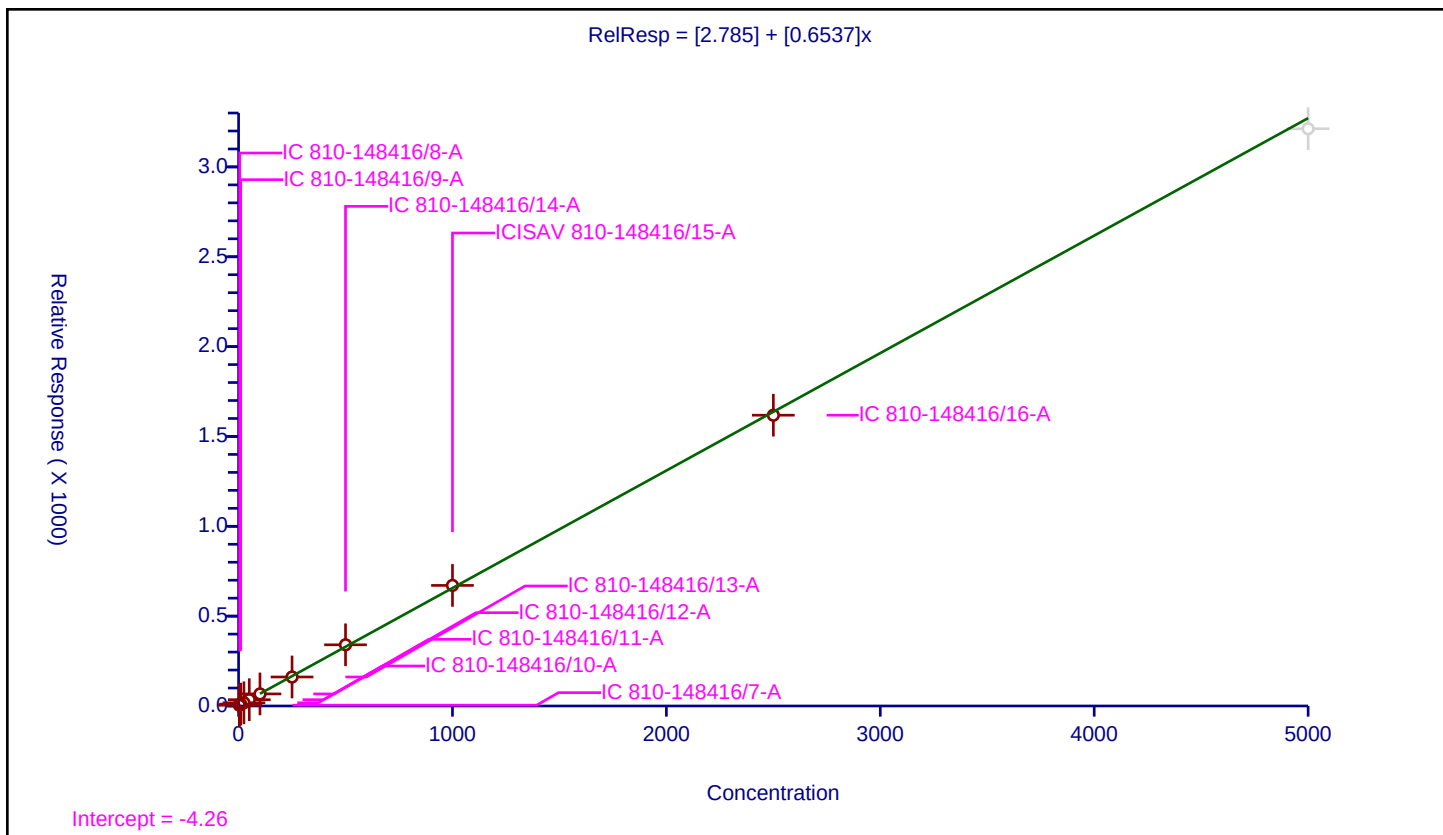
Curve Coefficients

Intercept: 2.785
Slope: 0.6537

Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 810-148416/7-A	3.5	4.748529	500.0	7476.0	1.356722	Y
2	IC 810-148416/8-A	5.0	6.256656	500.0	7512.0	1.251331	Y
3	IC 810-148416/9-A	10.0	10.447165	500.0	7514.0	1.044717	Y
4	IC 810-148416/10-A	25.0	17.809676	500.0	7524.0	0.712387	Y
5	IC 810-148416/11-A	50.0	35.141721	500.0	7797.0	0.702834	Y
6	IC 810-148416/12-A	100.0	67.134269	500.0	7485.0	0.671343	Y
7	IC 810-148416/13-A	250.0	161.341641	500.0	7543.0	0.645367	Y
8	IC 810-148416/14-A	500.0	340.477816	500.0	7325.0	0.680956	Y
9	ICISAV 810-148416/15-A	1000.0	671.009772	500.0	7368.0	0.67101	Y
10	IC 810-148416/16-A	2500.0	1618.333115	500.0	7631.0	0.647333	Y
11	IC 810-148416/17-A	5000.0	3212.470371	500.0	7594.0	0.642494	N



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-152478-1
SDG No.: _____
Lab Sample ID: ICV 810-148416/18-A Calibration Date: 06/17/2025 21:08
Instrument ID: GCMS-FE Calib Start Date: 06/17/2025 16:44
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calib End Date: 06/17/2025 20:24
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		0.6888		99.1	100	99	80-120
1,4-Dioxane-d8 (Surr)	Ave	0.6304	0.6420		497	500	99	70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\ICV.D
 Lims ID: ICV 810-148416/18-A
 Client ID:
 Sample Type: ICV
 Inject. Date: 17-Jun-2025 21:08:45 ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0038307-014
 Misc. Info.: ICV 810-148416/18-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 20-Jun-2025 06:22:16 Calib Date: 17-Jun-2025 20:02:31
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: JH8B

Date: 20-Jun-2025 06:16:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.574	6.574	0.000	31	7165	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.726	8.726	0.000	94	4600	500.0	496.7	
11 1,4-Dioxane	88	8.809	8.798	0.011	84	987	100.0	99.1	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\ICV.D

Injection Date: 17-Jun-2025 21:08:45

Instrument ID: GCMS-FE

Lims ID: ICV 810-148416/18-A

Client ID:

Operator ID: BC

ALS Bottle#: 14

Worklist Smp#: 14

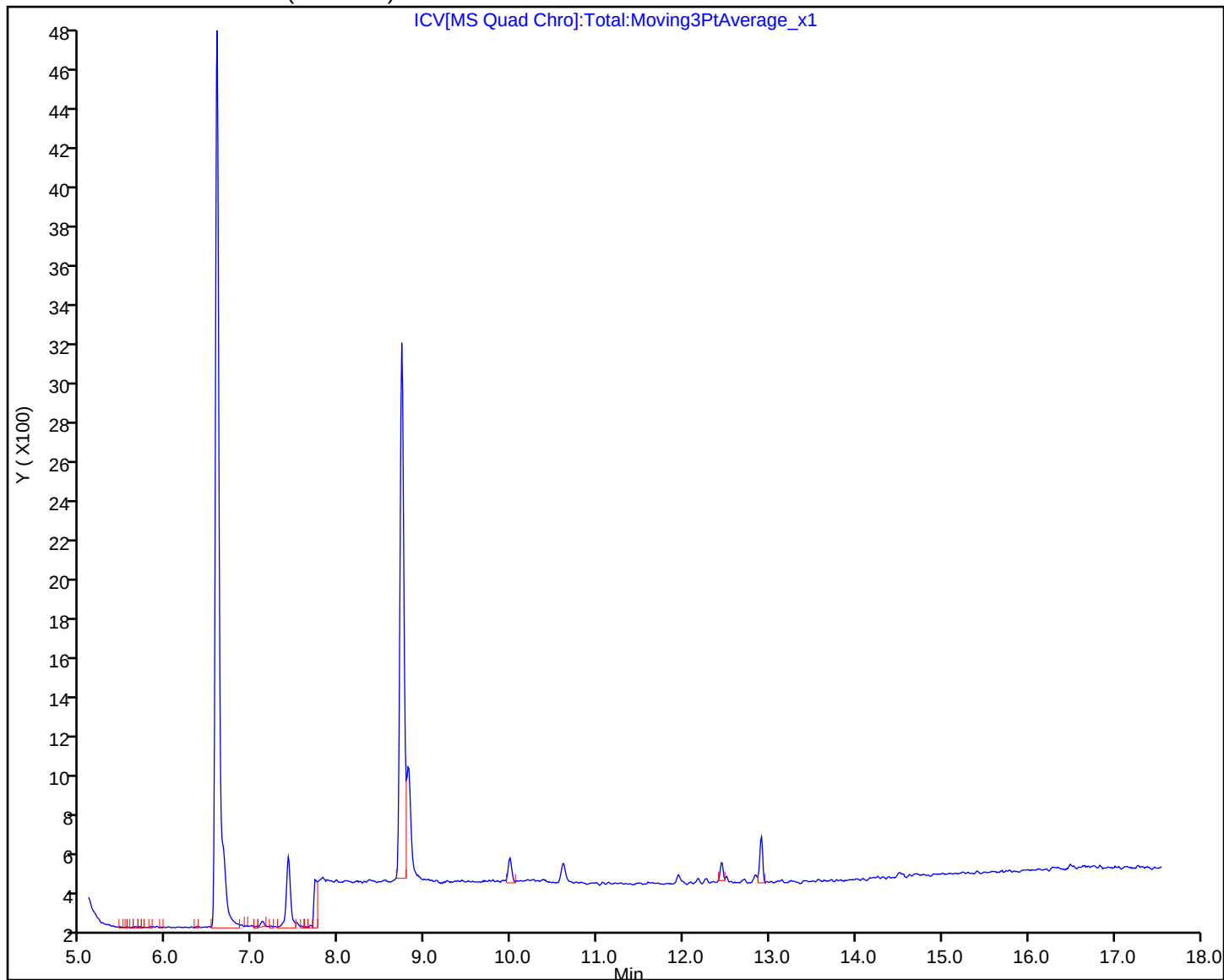
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\ICV.D

Injection Date: 17-Jun-2025 21:08:45

Instrument ID: GCMS-FE

Lims ID: ICV 810-148416/18-A

Client ID:

Operator ID: BC

ALS Bottle#: 14

Worklist Smp#: 14

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)

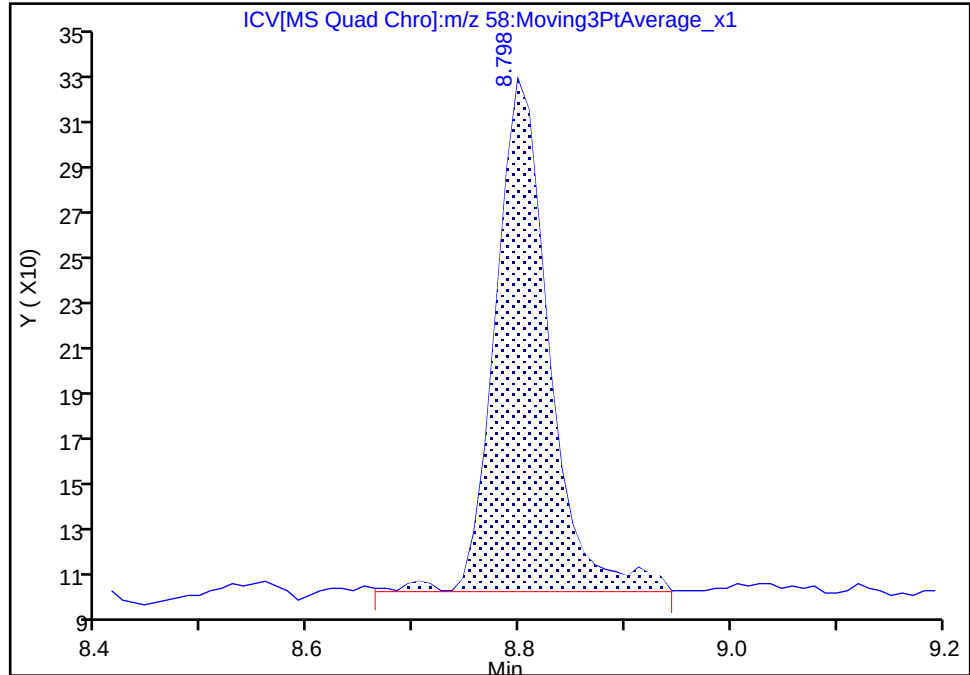
Detector: MS Quad

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

Signal: 2

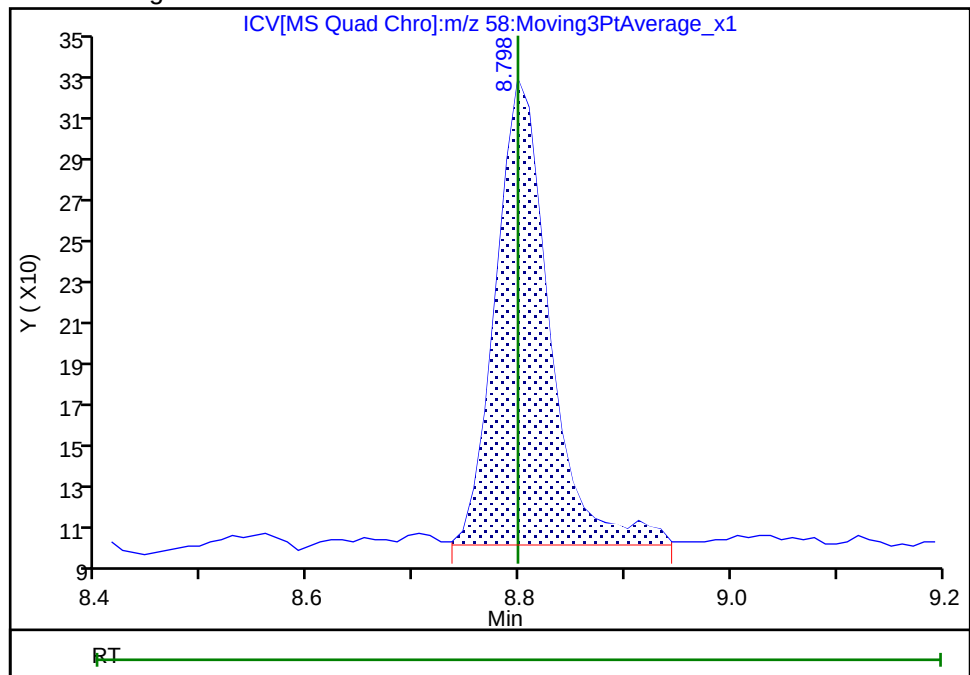
RT: 8.80
Area: 761
Amount: 91.799697
Amount Units: ug/l

Processing Integration Results



RT: 8.80
Area: 766
Amount: 99.138282
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 20-Jun-2025 06:22:13 -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.: 810-152478-1
SDG No.: _____
Lab Sample ID: CCVLIS 810-149065/1- Calibration Date: 06/21/2025 15:27
Instrument ID: GCMS-FE Calib Start Date: 06/17/2025 16:44
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calib End Date: 06/17/2025 20:24
Lab File ID: CCVL8.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
1,4-Dioxane	Lin1		1.432		3.41	3.50	97	50-150
1,4-Dioxane-d8 (Surr)	Ave	0.6304	0.6170		489	500	98	70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\CCVL8.D
 Lims ID: CCVLIS 810-149065/1-A
 Client ID:
 Sample Type: CCVLIS
 Inject. Date: 21-Jun-2025 15:27:27 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0038486-001
 Misc. Info.: CCVLIS 810-149065/1-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 23-Jun-2025 12:34:52 Calib Date: 17-Jun-2025 20:02:31
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1638

First Level Reviewer: JH8B

Date: 23-Jun-2025 11:50:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.582	6.574	0.008	28	7580	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.726	8.726	0.000	94	4677	500.0	489.4	
11 1,4-Dioxane	88	8.819	8.798	0.021	81	76	3.50	3.41	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\CCVL8.D

Injection Date: 21-Jun-2025 15:27:27

Instrument ID: GCMS-FE

Lims ID: CCVLIS 810-149065/1-A

Client ID:

Operator ID: BC

ALS Bottle#:

2

Worklist Smp#:

1

Injection Vol: 1.0 ul

Dil. Factor:

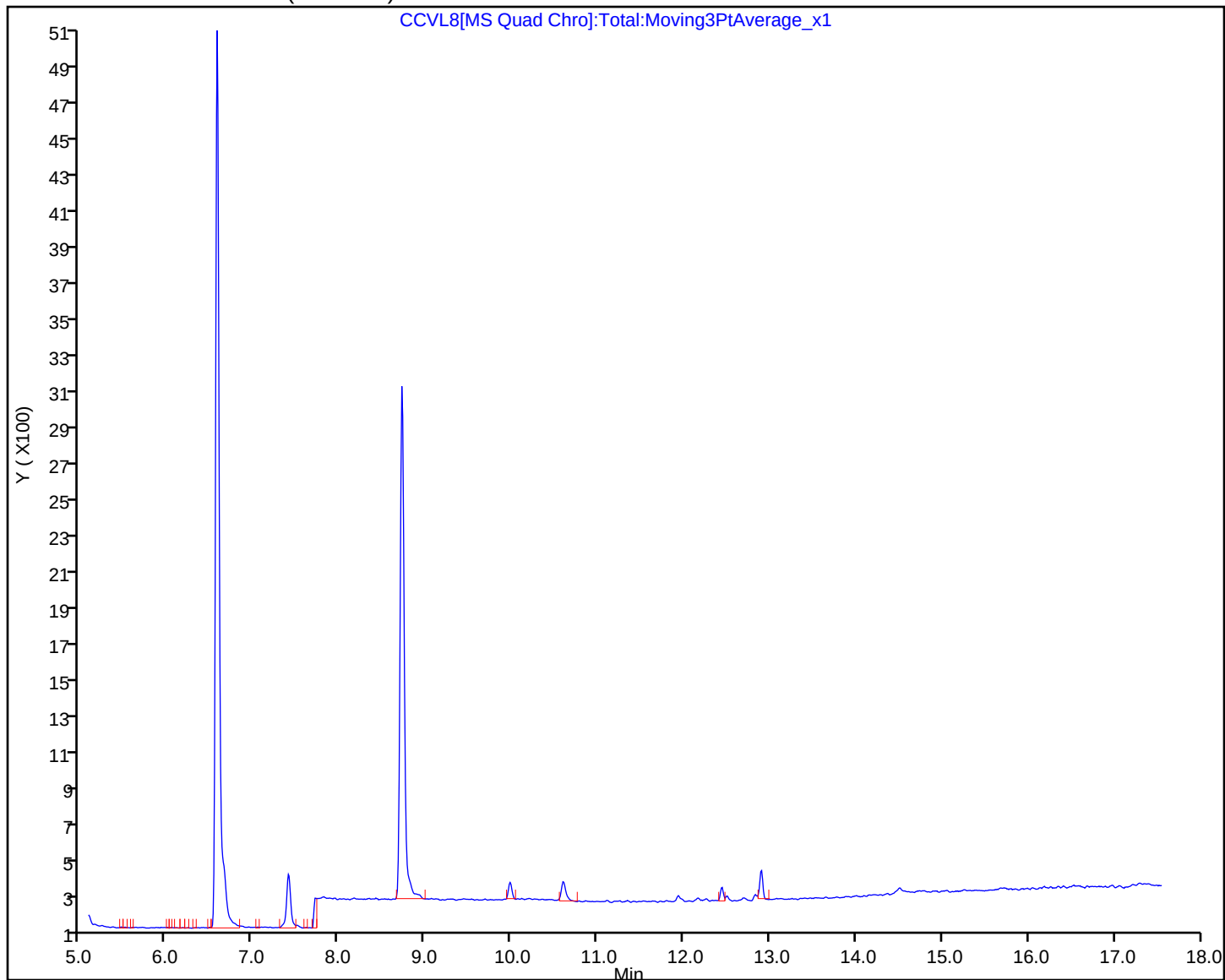
1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

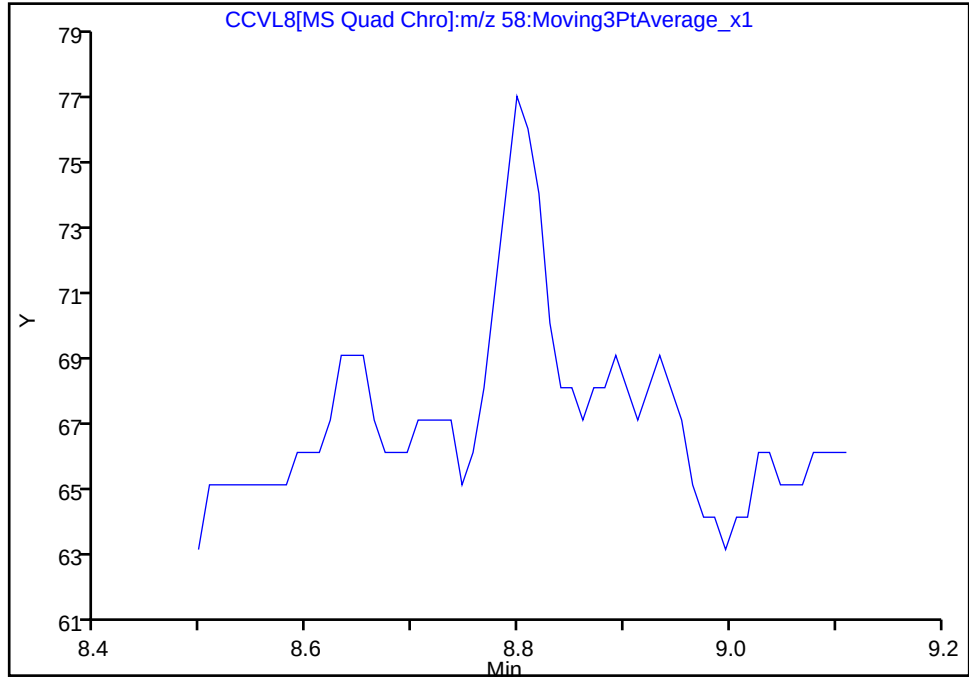
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\CCVL8.D
Injection Date: 21-Jun-2025 15:27:27 Instrument ID: GCMS-FE
Lims ID: CCVLIS 810-149065/1-A
Client ID:
Operator ID: BC ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector MS Quad

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

Signal: 2

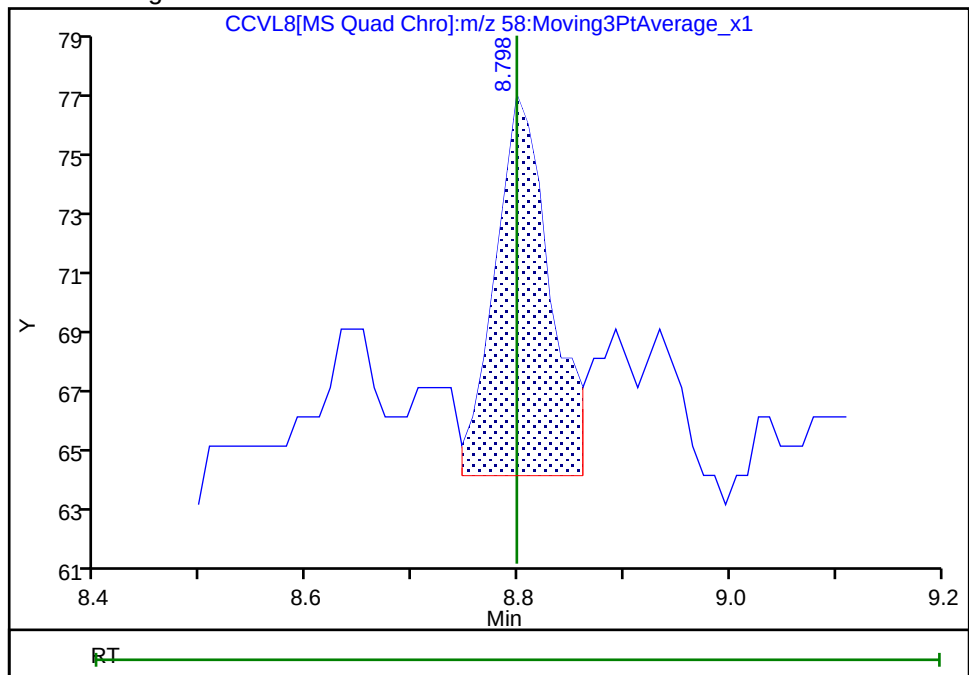
Not Detected
Expected RT: 8.80

Processing Integration Results



Manual Integration Results

RT: 8.80
Area: 47
Amount: 3.408609
Amount Units: ug/l



Reviewer: JH8B, 23-Jun-2025 11:50:52 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 106 of 141

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-152478-1
SDG No.: _____
Lab Sample ID: CCVIS 810-149065/3-A Calibration Date: 06/21/2025 20:58
Instrument ID: GCMS-FE Calib Start Date: 06/17/2025 16:44
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calib End Date: 06/17/2025 20:24
Lab File ID: CCVM8.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
1,4-Dioxane	Lin1		0.6190		943	1000	94	70-130
1,4-Dioxane-d8 (Surr)	Ave	0.6304	0.5939		471	500	94	70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\CCVM8.D
 Lims ID: CCVIS 810-149065/3-A
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 21-Jun-2025 20:58:02 ALS Bottle#: 16 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0038486-015
 Misc. Info.: CCVIS 810-149065/3-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 23-Jun-2025 12:35:07 Calib Date: 17-Jun-2025 20:02:31
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1638

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.574	6.574	0.000	30	7553	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.726	8.726	0.000	94	4486	500.0	471.1	
11 1,4-Dioxane	88	8.798	8.798	0.000	85	9350	1000.0	942.6	

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\CCVM8.D

Injection Date: 21-Jun-2025 20:58:02

Instrument ID: GCMS-FE

Lims ID: CCVIS 810-149065/3-A

Client ID:

Operator ID: BC

ALS Bottle#: 16

Worklist Smp#: 15

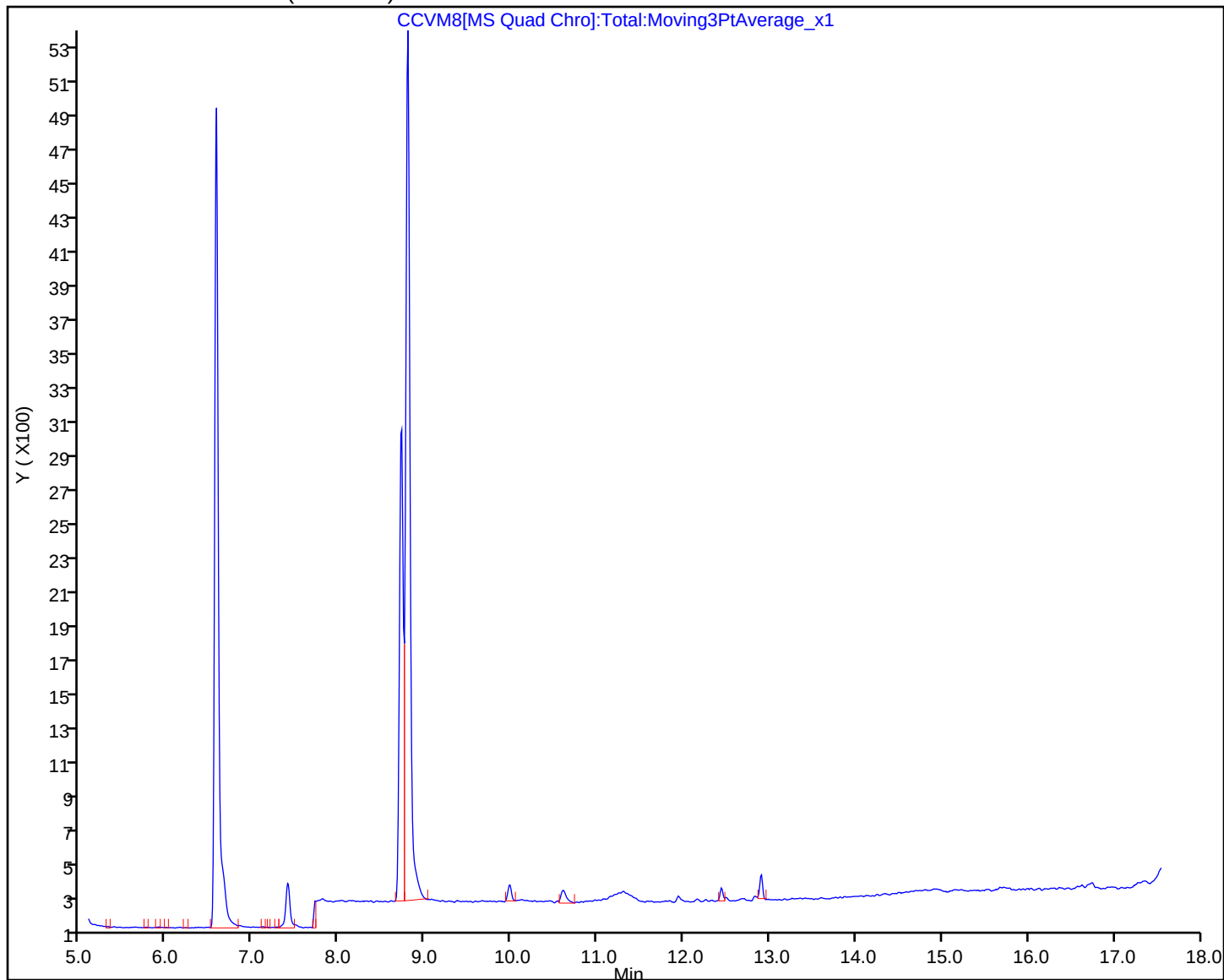
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-152478-1
SDG No.: _____
Lab Sample ID: CCV 810-149065/5-A Calibration Date: 06/22/2025 01:43
Instrument ID: GCMS-FE Calib Start Date: 06/17/2025 16:44
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calib End Date: 06/17/2025 20:24
Lab File ID: CCVH8.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
1,4-Dioxane	Lin1		0.6071		4640	5000	93	70-130
1,4-Dioxane-d8 (Surr)	Ave	0.6304	0.5968		473	500	95	70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\CCVH8.D
 Lims ID: CCV 810-149065/5-A
 Client ID:
 Sample Type: CCV
 Inject. Date: 22-Jun-2025 01:43:02 ALS Bottle#: 29 Worklist Smp#: 28
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0038486-028
 Misc. Info.: CCV 810-149065/5-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 23-Jun-2025 12:35:22 Calib Date: 17-Jun-2025 20:02:31
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1638

First Level Reviewer: JH8B

Date: 23-Jun-2025 12:31:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.566	6.574	-0.008	30	8309	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.725	8.726	-0.001	94	4959	500.0	473.4	
11 1,4-Dioxane	88	8.798	8.798	0.000	85	50445	5000.0	4639.2	E

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\CCVH8.D

Injection Date: 22-Jun-2025 01:43:02

Instrument ID: GCMS-FE

Lims ID: CCV 810-149065/5-A

Client ID:

Operator ID: BC

ALS Bottle#: 29

Worklist Smp#: 28

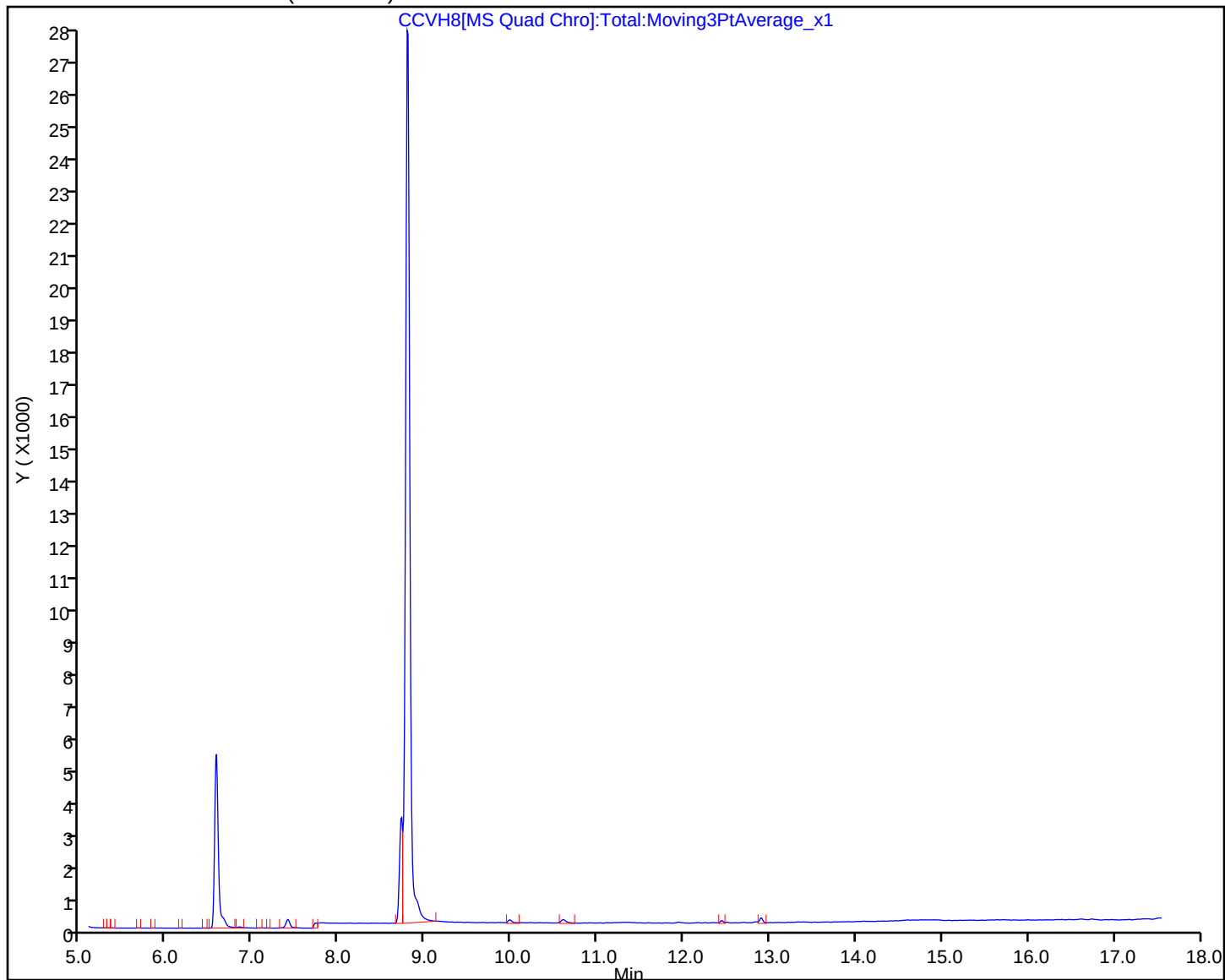
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\BFB 2.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 17-Jun-2025 16:30:31 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 mL Dil. Factor: 1.0000
Sample Info: 810-0038307-002
Misc. Info.: BFB 2
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed

Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 18-Jun-2025 10:30:51 Calib Date: 17-Jun-2025 20:02:31
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D

Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1633

First Level Reviewer: JH8B

Date: 18-Jun-2025 07:13:52

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

QC Flag Legend

Processing Flags

Reagents:

O-522BFBSUB_00021

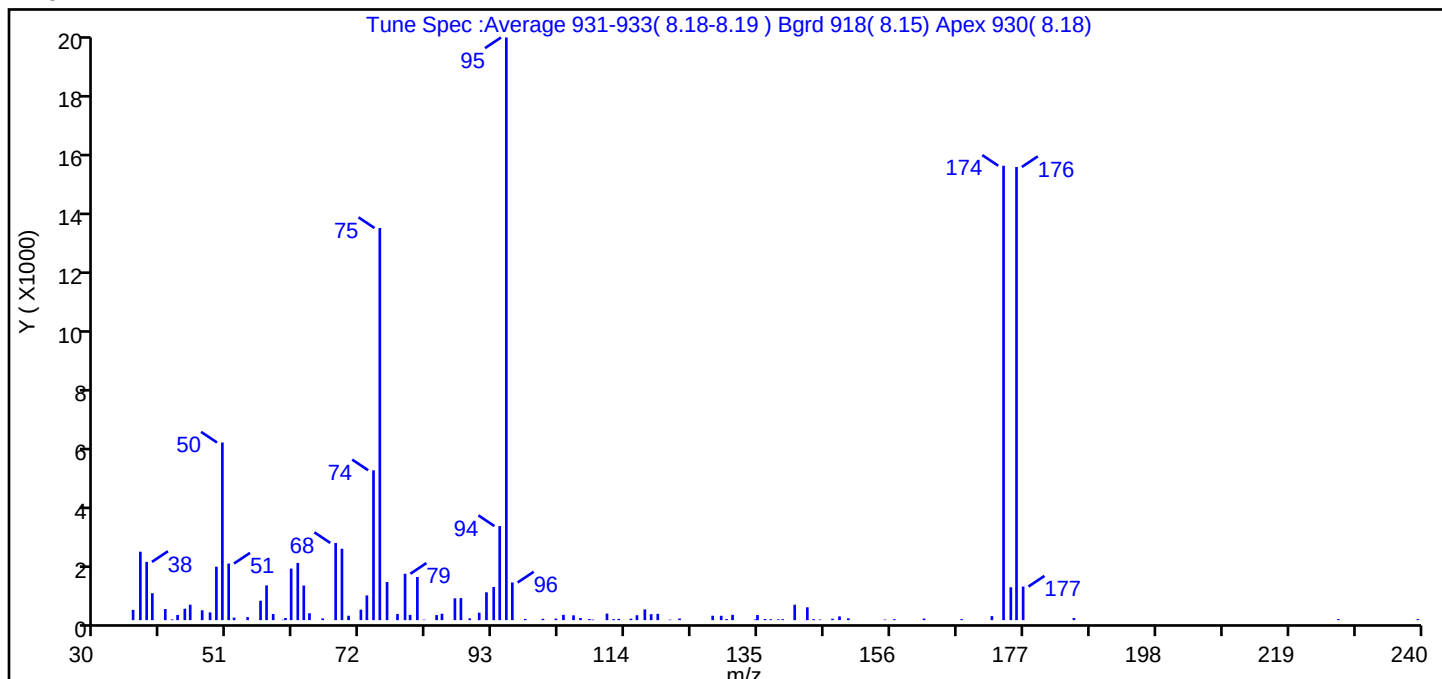
Amount Added: 1.00

Units: mL

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\BFB 2.D
Injection Date: 17-Jun-2025 16:30:31 Instrument ID: GCMS-FE
Lims ID: BFB
Client ID:
Operator ID: BC ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 mL Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Tune Method: BFB Method 524

10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% Relative Abundance	100.0
50	15-40% of mass 95	30.5
75	30-80% of mass 95	67.3
96	5-9% of mass 95	6.5
173	<2% of mass 174	0.0 (0.0)
174	>50% of mass 95	78.0
175	5-9% of mass 174	5.6 (7.2)
176	>95% but <101% of mass 174	77.8 (99.7)
177	5-9% of mass 176	5.8 (7.4)

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\BFB 2.D\522_GCMS-FE.rsl\spectra.d
Injection Date: 17-Jun-2025 16:30:31
Spectrum: Tune Spec :Average 931-933(8.18-8.19) Bgrd 918(8.15) Apex 930(8.18)
Base Peak: 95.05
Minimum % Base Peak: 0
Number of Points: 97

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	350	66.00	59	98.00	41	137.00	31
37.00	2323	68.00	2621	101.00	47	138.00	26
38.00	1978	69.00	2424	103.00	52	139.00	32
39.00	915	70.00	150	104.00	181	141.00	524
41.00	377	72.00	356	106.00	164	143.00	436
42.00	25	73.00	839	107.00	71	144.00	34
43.00	175	74.00	5089	108.00	35	145.00	20
44.00	388	75.00	13315	109.00	19	147.00	48
45.00	524	76.00	1294	111.00	223	148.00	129
47.00	335	78.00	210	112.00	34	149.00	62
48.00	263	79.00	1575	113.00	43	155.00	19
49.00	1814	80.00	178	115.00	50	157.00	32
50.00	6031	81.00	1466	116.00	167	161.00	53
51.00	1922	82.00	17	117.00	365	167.00	34
52.00	86	84.00	172	118.00	202	172.00	137
54.00	103	85.00	218	119.00	214	174.00	15429
56.00	660	87.00	741	121.00	18	175.00	1116
57.00	1181	88.00	749	122.00	55	176.00	15387
58.00	210	89.00	60	128.00	150	177.00	1140
60.00	14	91.00	253	129.00	148	185.00	72
60.00	73	92.00	946	130.00	37	227.00	33
61.00	1750	93.00	1127	131.00	181	240.00	34
62.00	1942	94.00	3195	135.00	27		
63.00	1175	95.00	19784	135.00	176		
64.00	234	96.00	1279	136.00	38		

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\BFB 2.D

Injection Date: 17-Jun-2025 16:30:31

Instrument ID: GCMS-FE

Lims ID: BFB

Client ID:

Operator ID: BC

ALS Bottle#:

2

Worklist Smp#:

2

Injection Vol: 2.0 mL

Dil. Factor:

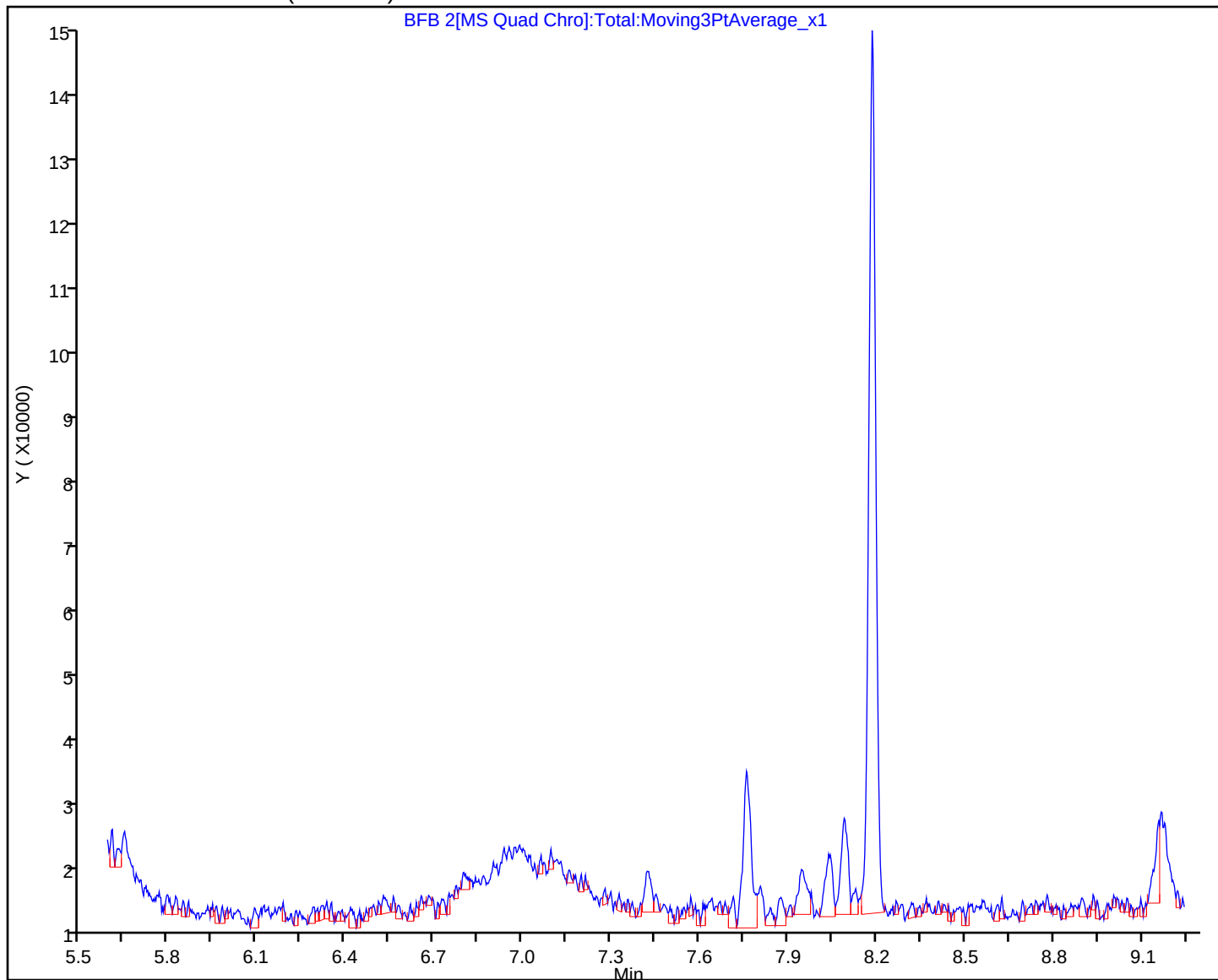
1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Eaton Analytical South Bend SDG No.: Client Sample ID: Matrix: Drinking Water Analysis Method: 522 Extract. Method: 522 Sample wt/vol: 100 (mL) Con. Extract Vol.: 2 (mL) Injection Volume: 1 (uL) % Moisture: % Solids: Cleanup Factor: Analysis Batch No.: 149116 Preparation Batch No.: 148985	Job No.: 810-152478-1 Lab Sample ID: MBL 810-148985/1-A Lab File ID: MBL8.D Date Collected: Date Extracted: 06/20/2025 08:43 Date Analyzed: 06/21/2025 16:11 Dilution Factor: 1 GC Column: CPSelect 624 MS ID: 0.25 (mm) GPC Cleanup: (Y/N) N Level: (low/med) Low Units: ug/L Instrument ID: GCMS-FE
---	--

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-FE\20250621-38486.b\MBL8.D
 Lims ID: MBL 810-148985/1-A
 Client ID:
 Sample Type: MBL
 Inject. Date: 21-Jun-2025 16:11:35 ALS Bottle#: 3 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0038486-002
 Misc. Info.: CCVLIS 810-149065/1-A
 Operator ID: BC Instrument ID: GCMS-FE
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 23-Jun-2025 12:34:52 Calib Date: 17-Jun-2025 20:02:31
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1638

First Level Reviewer: JH8B

Date: 23-Jun-2025 11:51:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.582	6.574	0.008	27	7772	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.726	8.726	0.000	93	4131	500.0	421.6	
11 1,4-Dioxane	88		8.798					ND	MU
10 BFB									

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

U - Marked Undetected

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\MBL8.D

Injection Date: 21-Jun-2025 16:11:35

Instrument ID: GCMS-FE

Lims ID: MBL 810-148985/1-A

Client ID:

Operator ID: BC

ALS Bottle#: 3

Worklist Smp#: 2

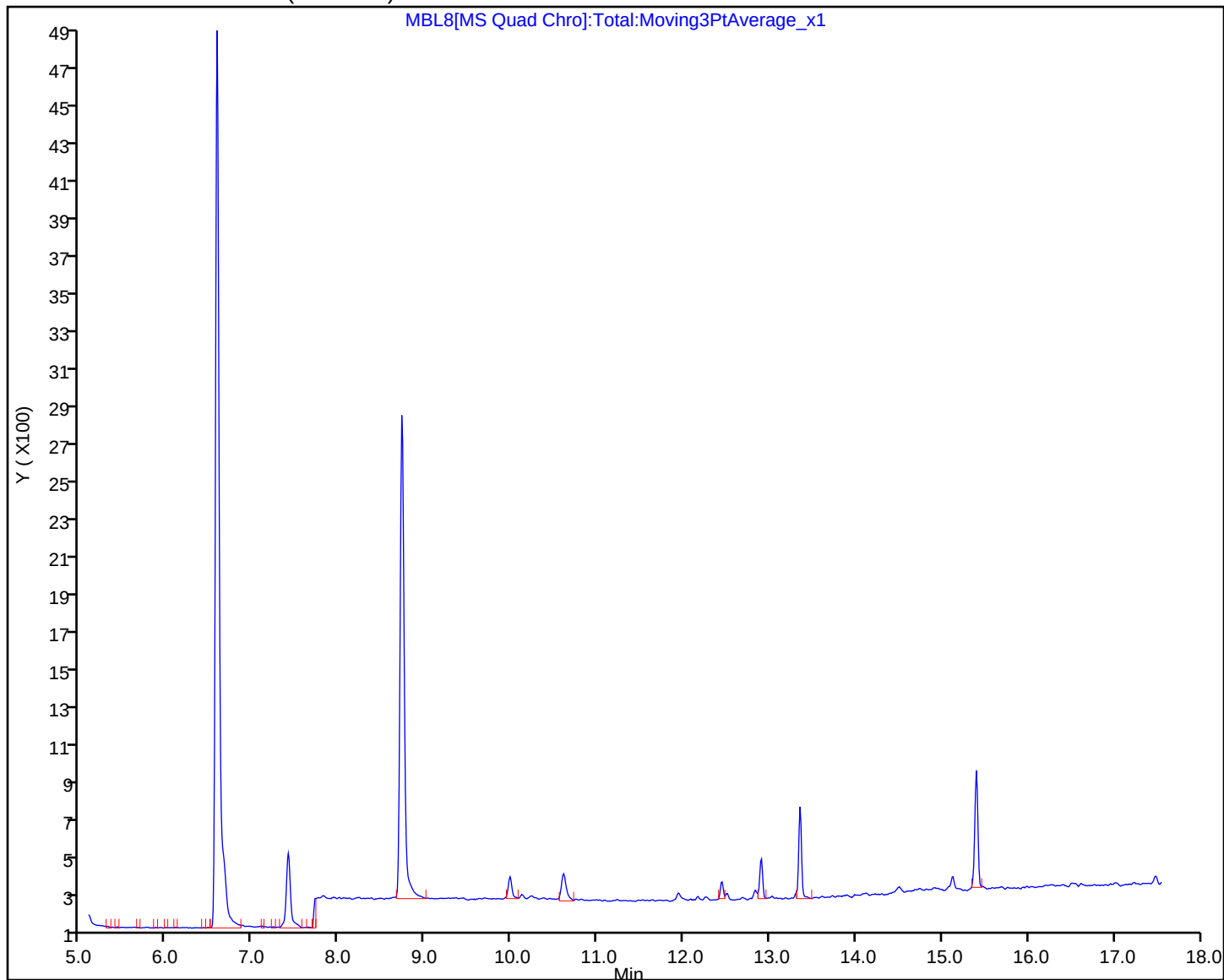
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend
Recovery Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\MBL8.D
Lims ID: MBL 810-148985/1-A
Client ID:
Sample Type: MBL
Inject. Date: 21-Jun-2025 16:11:35 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0038486-002
Misc. Info.: CCVLIS 810-149065/1-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 23-Jun-2025 12:34:52 Calib Date: 17-Jun-2025 20:02:31
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1638

First Level Reviewer: JH8B

Date: 23-Jun-2025 11:51:08

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	421.6	84.32

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\MBL8.D

Injection Date: 21-Jun-2025 16:11:35

Instrument ID: GCMS-FE

Lims ID: MBL 810-148985/1-A

Client ID:

Operator ID: BC

ALS Bottle#:

3

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

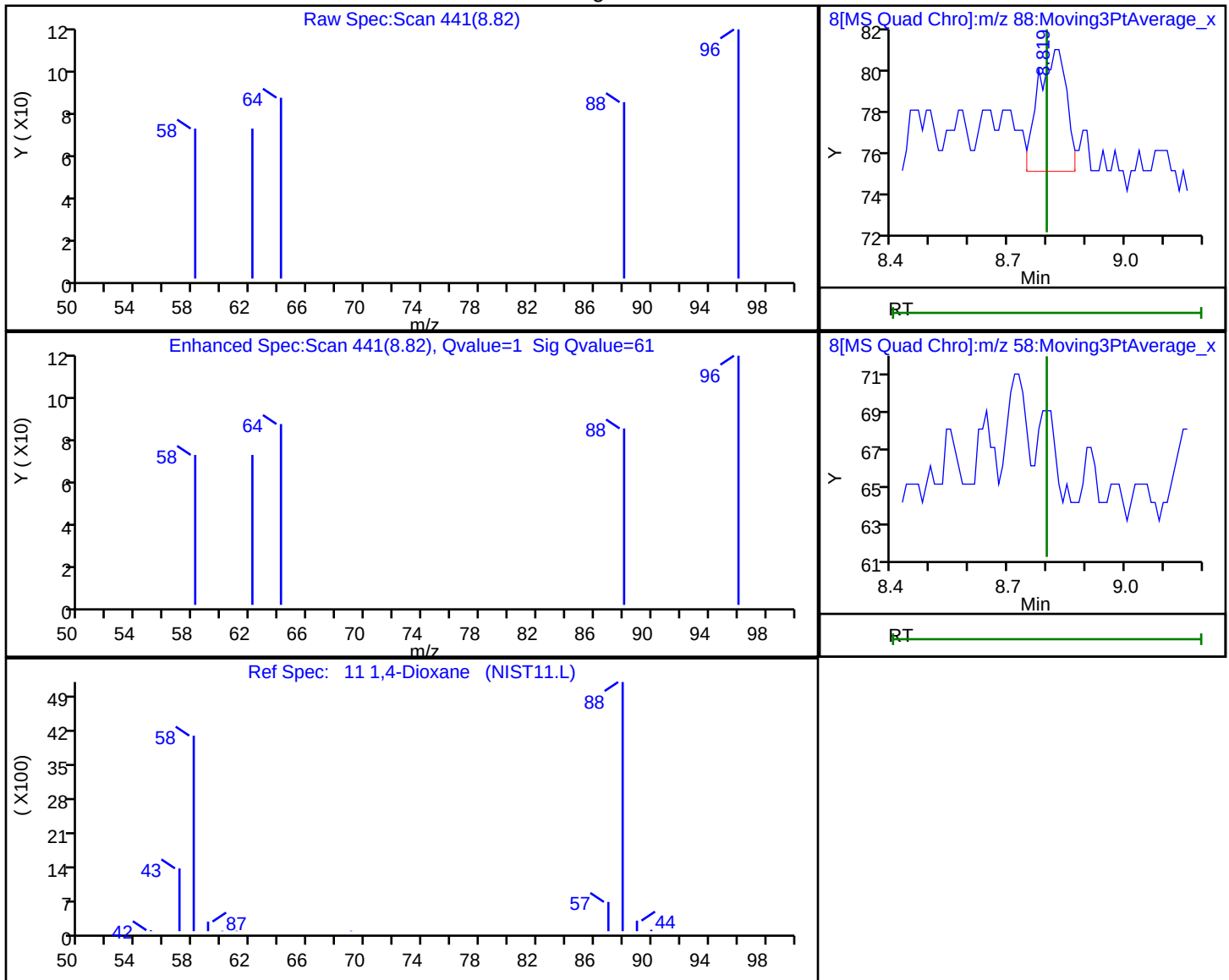
Column: CP Select 624 MS (0.25 mm)

Detector

MS Quad

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

Processing Results



RT	Mass	Response	Amount
8.82	88.00	31	-1.209279
8.80	58.00	0	

Reviewer: JH8B, 23-Jun-2025 11:51:07 -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.: 810-152478-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 810-148985/3-A

Matrix: Drinking Water Lab File ID: LCS8.D

Analysis Method: 522 Date Collected: _____

Extract. Method: 522 Date Extracted: 06/20/2025 08:43

Sample wt/vol: 100 (mL) Date Analyzed: 06/21/2025 16:55

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.: 149116 Units: ug/L

Preparation Batch No.: 148985 Instrument ID: GCMS-FE

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.808		0.070	0.062

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

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\LCS8.D
Lims ID: LCS 810-148985/3-A
Client ID:
Sample Type: LCS
Inject. Date: 21-Jun-2025 16:55:43 ALS Bottle#: 5 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0038486-004
Misc. Info.: LCS 810-148985/3-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 23-Jun-2025 12:34:52 Calib Date: 17-Jun-2025 20:02:31
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1638

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.582	6.574	0.008	26	7607	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.726	8.726	0.000	93	4451	500.0	464.1	
11 1,4-Dioxane	88	8.809	8.798	0.011	82	444	50.0	40.4	

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\LCS8.D

Injection Date: 21-Jun-2025 16:55:43

Instrument ID: GCMS-FE

Lims ID: LCS 810-148985/3-A

Client ID:

Operator ID: BC

ALS Bottle#: 5

Worklist Smp#: 4

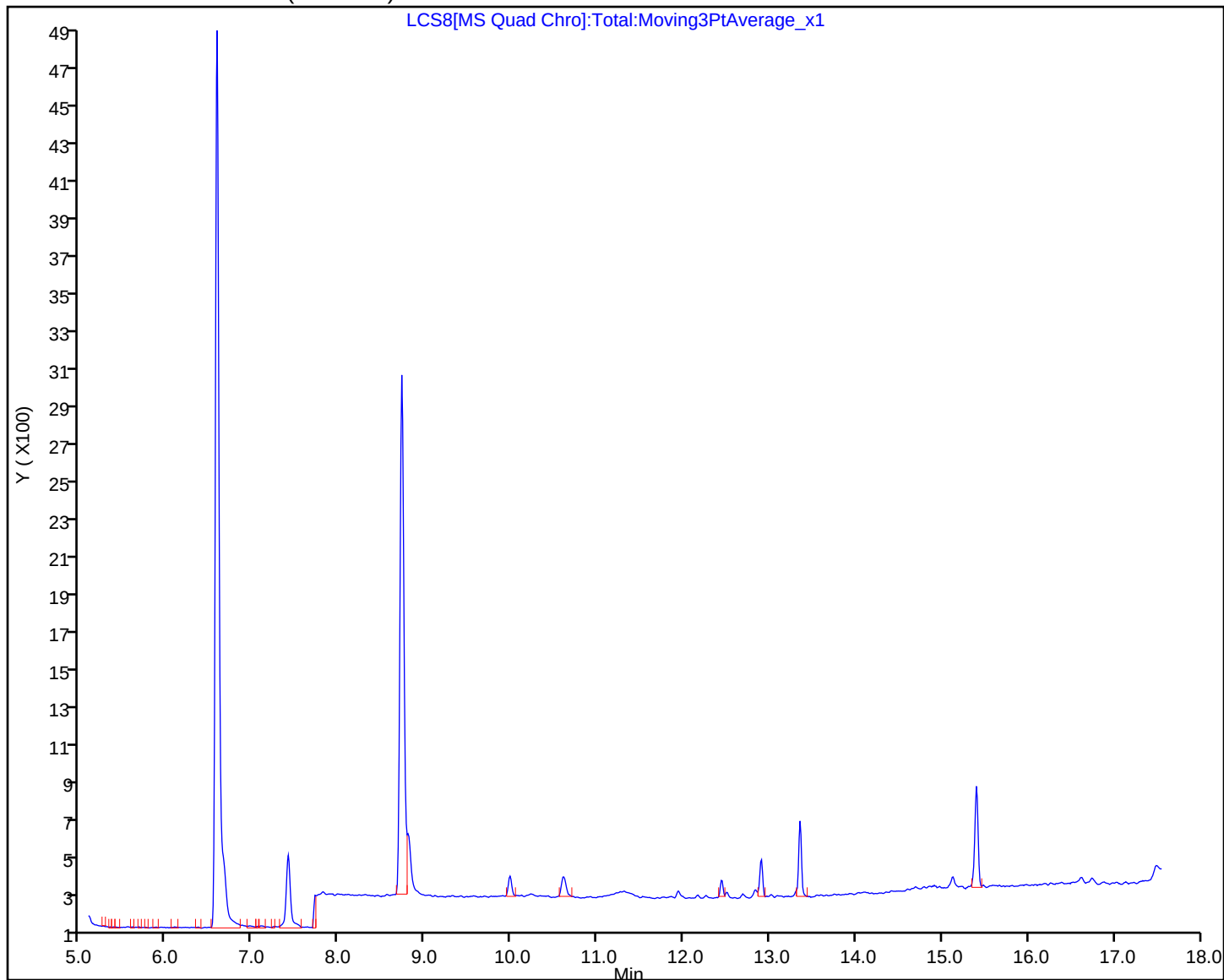
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend
Recovery Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\LCS8.D
Lims ID: LCS 810-148985/3-A
Client ID:
Sample Type: LCS
Inject. Date: 21-Jun-2025 16:55:43 ALS Bottle#: 5 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0038486-004
Misc. Info.: LCS 810-148985/3-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 23-Jun-2025 12:34:52 Calib Date: 17-Jun-2025 20:02:31
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1638

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	464.1	92.82

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-152478-1
SDG No.:
Client Sample ID: Lab Sample ID: LLCS 810-148985/2-A
Matrix: Drinking Water Lab File ID: LLCS8.D
Analysis Method: 522 Date Collected:
Extract. Method: 522 Date Extracted: 06/20/2025 08:43
Sample wt/vol: 100 (mL) Date Analyzed: 06/21/2025 16:33
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.: 149116 Units: ug/L
Preparation Batch No.: 148985 Instrument ID: GCMS-FE

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)	92		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\LLCS8.D
 Lims ID: LLCS 810-148985/2-A
 Client ID:
 Sample Type: LLCS
 Inject. Date: 21-Jun-2025 16:33:36 ALS Bottle#: 4 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0038486-003
 Misc. Info.: LLCS 810-148985/2-A
 Operator ID: BC Instrument ID: GCMS-FE
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 23-Jun-2025 12:35:22 Calib Date: 17-Jun-2025 20:02:31
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1638

First Level Reviewer: JH8B

Date: 23-Jun-2025 11:51:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.582	6.574	0.008	26	7826	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.726	8.726	0.000	93	4525	500.0	458.6	
11 1,4-Dioxane	88	8.809	8.798	0.011	0	73	3.50	2.87	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\LLCS8.D

Injection Date: 21-Jun-2025 16:33:36

Instrument ID: GCMS-FE

Lims ID: LLCS 810-148985/2-A

Client ID:

Operator ID: BC

ALS Bottle#: 4

Worklist Smp#: 3

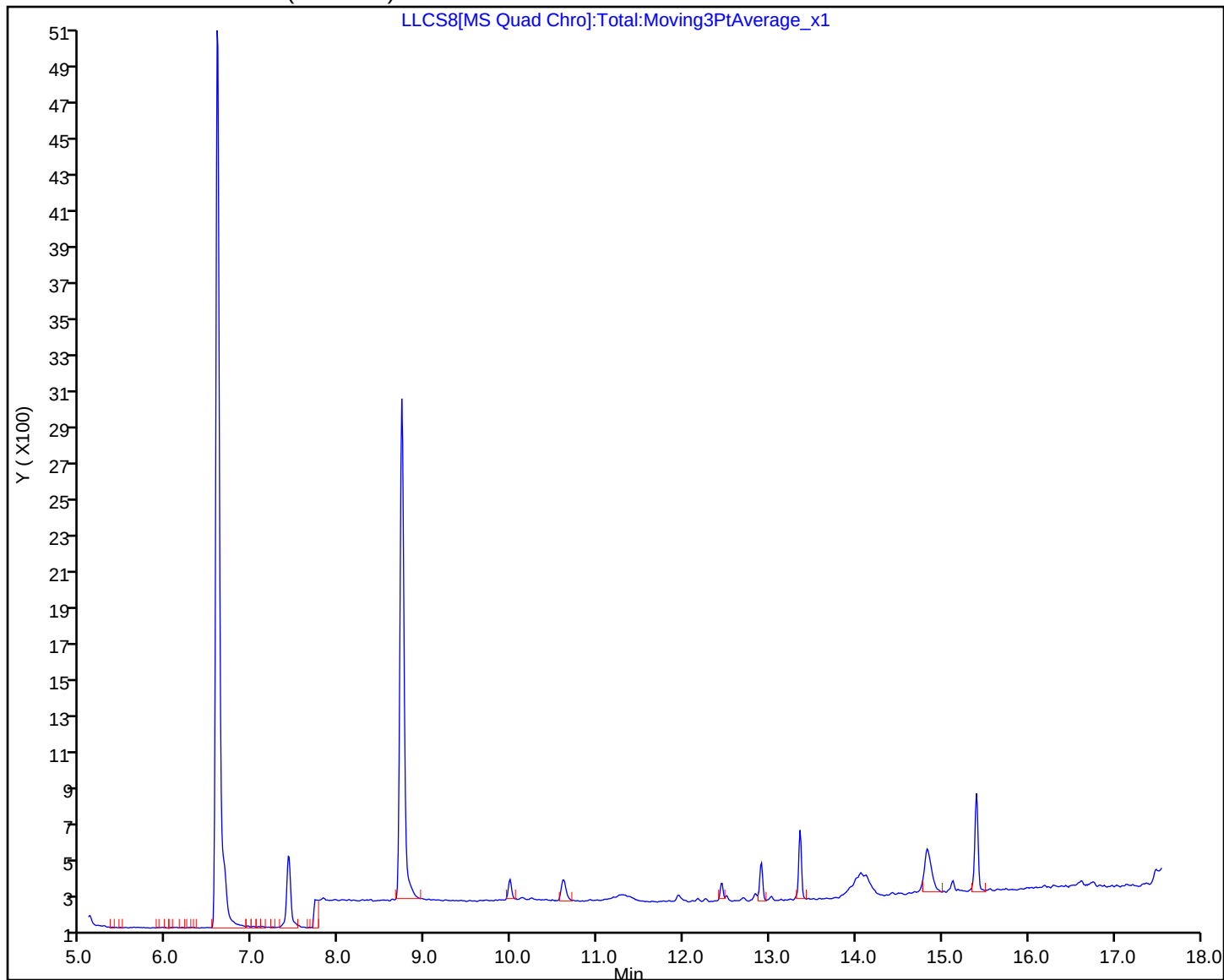
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend
Recovery Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\LLCS8.D
Lims ID: LLCS 810-148985/2-A
Client ID:
Sample Type: LLCS
Inject. Date: 21-Jun-2025 16:33:36 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0038486-003
Misc. Info.: LLCS 810-148985/2-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 23-Jun-2025 12:35:22 Calib Date: 17-Jun-2025 20:02:31
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250617-38307.b\IC 50.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1638

First Level Reviewer: JH8B

Date: 23-Jun-2025 11:51:48

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	458.6	91.72

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250621-38486.b\LLCS8.D

Injection Date: 21-Jun-2025 16:33:36

Instrument ID: GCMS-FE

Lims ID: LLCS 810-148985/2-A

Client ID:

Operator ID: BC

ALS Bottle#:

4

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

MS Quad

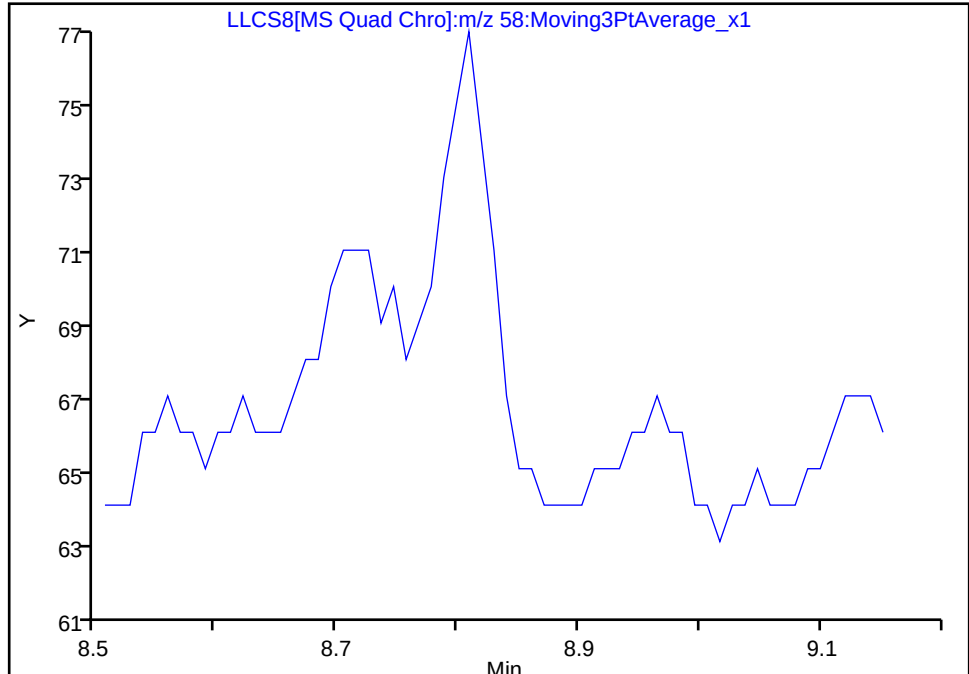
11 1,4-Dioxane, CAS: 123-91-1

Signal: 2

Not Detected

Expected RT: 8.80

Processing Integration Results



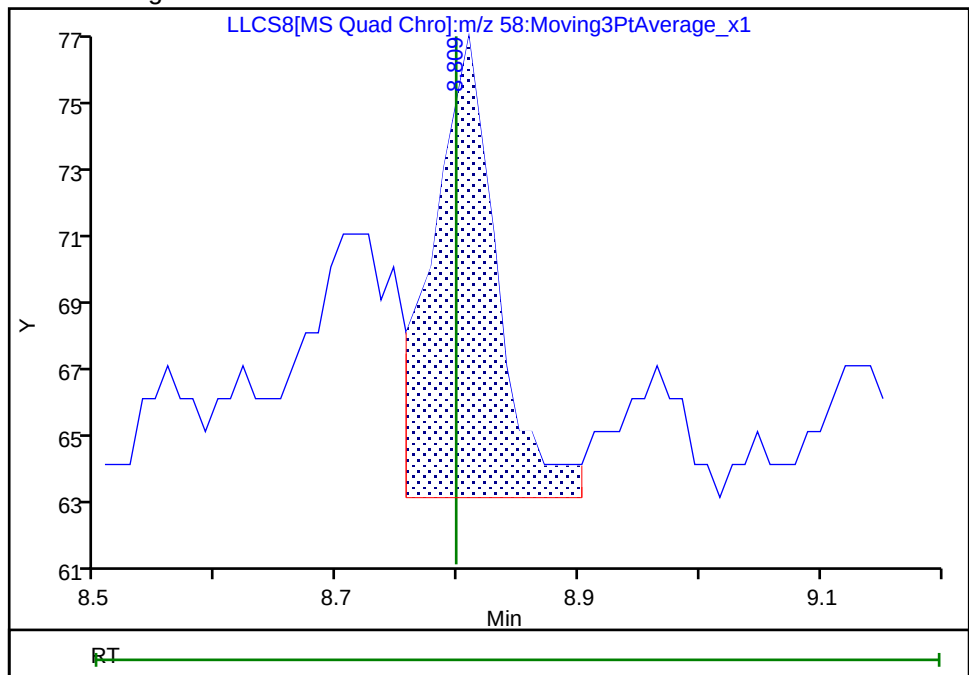
RT: 8.81

Area: 53

Amount: 2.874364

Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 23-Jun-2025 11:51:33 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\\Southbend\\ChromData\\GCMS-FE\\20250621-38486.b\\LLCS8.D

Injection Date: 21-Jun-2025 16:33:36

Instrument ID: GCMS-FE

Lims ID: LLCS 810-148985/2-A

Client ID:

Operator ID: BC

ALS Bottle#:

4

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

MS Quad

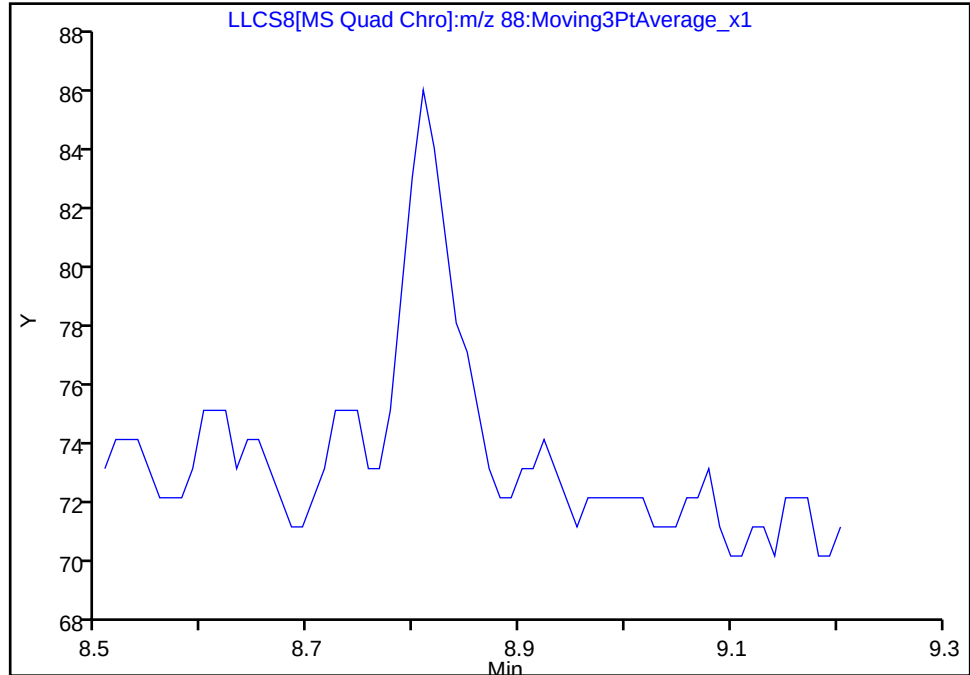
11 1,4-Dioxane, CAS: 123-91-1

Signal: 1

Not Detected

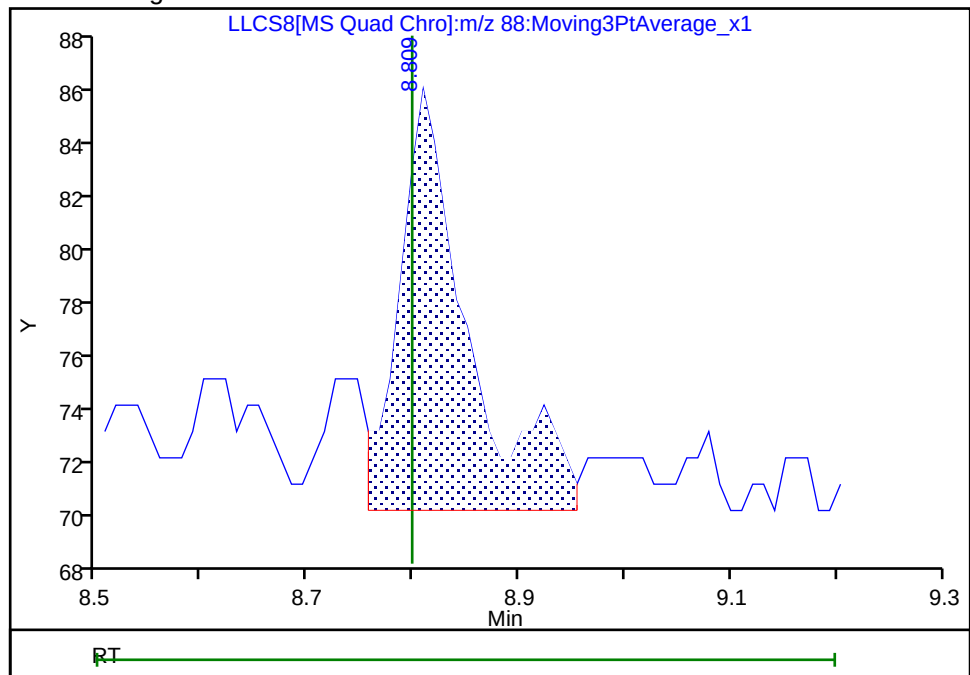
Expected RT: 8.80

Processing Integration Results



Manual Integration Results

RT: 8.81
Area: 73
Amount: 2.874364
Amount Units: ug/l



Reviewer: JH8B, 23-Jun-2025 11:51:44 -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.: 810-152478-1

SDG No.:

Instrument ID: GCMS-FE

Start Date: 06/17/2025 16:30

Analysis Batch Number: 148478

End Date: 06/17/2025 21:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 810-148478/2		06/17/2025 16:30	1	BFB 2.D	CPSelect 624 MS 0.25 (mm)
IC 810-148416/7-A		06/17/2025 16:44	1	IC 007.D	CPSelect 624 MS 0.25 (mm)
IC 810-148416/8-A		06/17/2025 17:06	1	IC 01.D	CPSelect 624 MS 0.25 (mm)
IC 810-148416/9-A		06/17/2025 17:28	1	IC 02.D	CPSelect 624 MS 0.25 (mm)
IC 810-148416/10-A		06/17/2025 17:50	1	IC 05.D	CPSelect 624 MS 0.25 (mm)
IC 810-148416/11-A		06/17/2025 18:12	1	IC 1.D	CPSelect 624 MS 0.25 (mm)
IC 810-148416/12-A		06/17/2025 18:34	1	IC 2.D	CPSelect 624 MS 0.25 (mm)
IC 810-148416/13-A		06/17/2025 18:56	1	IC 5.D	CPSelect 624 MS 0.25 (mm)
IC 810-148416/14-A		06/17/2025 19:18	1	IC 10.D	CPSelect 624 MS 0.25 (mm)
ICISAV 810-148416/15-A		06/17/2025 19:40	1	IC 20.D	CPSelect 624 MS 0.25 (mm)
IC 810-148416/16-A		06/17/2025 20:02	1	IC 50.D	CPSelect 624 MS 0.25 (mm)
IC 810-148416/17-A		06/17/2025 20:24	1	IC100.D	CPSelect 624 MS 0.25 (mm)
ICV 810-148416/18-A		06/17/2025 21:08	1	ICV.D	CPSelect 624 MS 0.25 (mm)
CCVLIS 810-147334/1-A		06/17/2025 21:30	1		CPSelect 624 MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Eaton Analytical South BendJob No.: 810-152478-1

SDG No.: _____

Instrument ID: GCMS-FEStart Date: 06/21/2025 15:27Analysis Batch Number: 149116End Date: 06/22/2025 01:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVLIS 810-149065/1-A		06/21/2025 15:27	1	CCVL8.D	CPSelect 624 MS 0.25 (mm)
MBL 810-148985/1-A		06/21/2025 16:11	1	MBL8.D	CPSelect 624 MS 0.25 (mm)
LLCS 810-148985/2-A		06/21/2025 16:33	1	LLCS8.D	CPSelect 624 MS 0.25 (mm)
LCS 810-148985/3-A		06/21/2025 16:55	1	LCS8.D	CPSelect 624 MS 0.25 (mm)
810-152478-1	VPB182-HYD-20250612	06/21/2025 17:17	1	810-152478-A-1- A.D	CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/21/2025 17:39	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/21/2025 18:01	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/21/2025 18:23	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/21/2025 18:45	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/21/2025 19:07	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/21/2025 19:30	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/21/2025 19:52	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/21/2025 20:14	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/21/2025 20:36	1		CPSelect 624 MS 0.25 (mm)
CCVIS 810-149065/3-A		06/21/2025 20:58	1	CCVM8.D	CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/21/2025 21:19	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/21/2025 21:42	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/21/2025 22:04	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/21/2025 22:25	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/21/2025 22:47	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (QC)		06/21/2025 23:09	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (QC)		06/21/2025 23:31	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/21/2025 23:53	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/22/2025 00:15	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/22/2025 00:37	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/22/2025 00:59	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/22/2025 01:21	1		CPSelect 624 MS 0.25 (mm)
CCV 810-149065/5-A		06/22/2025 01:43	1	CCVH8.D	CPSelect 624 MS 0.25 (mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Eaton Analytical Sout Job No.: 810-152478-1

SDG No.: _____

Batch Number: 148416 Batch Start Date: 06/17/25 11:12 Batch Analyst: Balkema, HaleyBatch Method: 522 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	522 IS SS 00243	522-Sur-SS 00141	O-522 CalM 00018	O-522-CalH 00021
IC 810-148416/7		522, 522			2 mL	2 mL	10 uL	10 uL		
IC 810-148416/8		522, 522			2 mL	2 mL	10 uL	10 uL		
IC 810-148416/9		522, 522			2 mL	2 mL	10 uL	10 uL		
IC 810-148416/10		522, 522			2 mL	2 mL	10 uL	10 uL	5 uL	
IC 810-148416/11		522, 522			2 mL	2 mL	10 uL	10 uL	10 uL	
IC 810-148416/12		522, 522			2 mL	2 mL	10 uL	10 uL	20 uL	
IC 810-148416/13		522, 522			2 mL	2 mL	10 uL	10 uL		5 uL
IC 810-148416/14		522, 522			2 mL	2 mL	10 uL	10 uL		10 uL
ICISAV 810-148416/15		522, 522			2 mL	2 mL	10 uL	10 uL		20 uL
IC 810-148416/16		522, 522			2 mL	2 mL	10 uL	10 uL		50 uL
IC 810-148416/17		522, 522			2 mL	2 mL	10 uL	10 uL		100 uL
ICV 810-148416/18		522, 522			2 mL	2 mL	10 uL	10 uL		

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	O-522-QCS-Sub 00010	O522-CalL 00025				
IC 810-148416/7		522, 522				7 uL				
IC 810-148416/8		522, 522				10 uL				
IC 810-148416/9		522, 522				20 uL				
IC 810-148416/10		522, 522								
IC 810-148416/11		522, 522								
IC 810-148416/12		522, 522								
IC 810-148416/13		522, 522								
IC 810-148416/14		522, 522								
ICISAV 810-148416/15		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.: 810-152478-1

SDG No.: _____

Batch Number: 148416 Batch Start Date: 06/17/25 11:12 Batch Analyst: Balkema, HaleyBatch Method: 522 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	O-522-QCS-Sub 00010	O522-CalL 00025				
IC 810-148416/16		522, 522								
IC 810-148416/17		522, 522								
ICV 810-148416/18		522, 522			20 uL					

Batch Notes	
MeCL2 ID	1985625
Balance ID	b27
Balance is Level? (Y/N)	yes

Basis	Basis Description

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Eaton Analytical Sout Job No.: 810-152478-1

SDG No.: _____

Batch Number: 148478 Batch Start Date: 06/17/25 16:30 Batch Analyst: Orpurt, KylaBatch Method: 522 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	O-522BFBSUB 00021				
BFB 810-148478/2		522			2 mL	1 mL				
IC 810-148416/7-A		522			2 mL					
IC 810-148416/8-A		522			2 mL					
IC 810-148416/9-A		522			2 mL					
IC 810-148416/10-A		522			2 mL					
IC 810-148416/11-A		522			2 mL					
IC 810-148416/12-A		522			2 mL					
IC 810-148416/13-A		522			2 mL					
IC 810-148416/14-A		522			2 mL					
ICISAV 810-148416/15-A		522			2 mL					
IC 810-148416/16-A		522			2 mL					
IC 810-148416/17-A		522			2 mL					
ICV 810-148416/18-A		522			2 mL					

Batch Notes	

Basis	Basis Description

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Eaton Analytical Sout Job No.: 810-152478-1

SDG No.: _____

Batch Number: 148985 Batch Start Date: 06/20/25 08:43 Batch Analyst: Piaskowski, MatthewBatch Method: 522 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	522 IS SS 00244	522-Sur-SS 00142	O-522 CalM 00018	O522-CalL 00025
MBL 810-148985/1		522, 522			100 mL	2 mL	10 uL	10 uL		
LLCS 810-148985/2		522, 522			100 mL	2 mL	10 uL	10 uL		7 uL
LCS 810-148985/3		522, 522			100 mL	2 mL	10 uL	10 uL	10 uL	
810-152478-A-1	VPB182-HYD-2025 0612	522, 522	aking W	T	100 mL	2 mL	10 uL	10 uL		

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	AnalysisCommen t					
MBL 810-148985/1		522, 522			Y1					
LLCS 810-148985/2		522, 522			Y2					
LCS 810-148985/3		522, 522			Y3					
810-152478-A-1	VPB182-HYD-2025 0612	522, 522	aking W	T	Y6					

Batch Notes	
MeCL2 ID	1996682
Methanol ID	1996707
SPE Cartridge Lot ID	1874583
Sodium Sulfite ID	1456825
Na2SO4 ID	1987158
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.: 810-152478-1

SDG No.: _____

Batch Number: 149065 Batch Start Date: 06/20/25 14:15 Batch Analyst: Piaskowski, MatthewBatch Method: 522 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	522 IS SS 00244	522-Sur-SS 00142	O-522-CalH 00021	O522-CalL 00025
CCVLIS 810-149065/1		522, 522			2 mL	2 mL	10 uL	10 uL		7 uL
CCVIS 810-149065/3		522, 522			2 mL	2 mL	10 uL	10 uL	20 uL	
CCV 810-149065/5		522, 522			2 mL	2 mL	10 uL	10 uL	100 uL	

Batch Notes	
MeCL2 ID	1996682
Balance is Level? (Y/N)	yes

Basis	Basis Description

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

Shipping and Receiving Documents

CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net		Chemtech Project Number: Q2314/15																																						
				COC Number:																																						
CLIENT INFORMATION			PROJECT INFORMATION					BILLING INFORMATION																																		
COMPANY: Tetra Tech			PROJECT NAME: NWIRP Bethpage					BILL TO: SEE CONTRACT				PO#																														
ADDRESS: 4433 Corporation Lane Suite 300			PROJECT #: 112G08005-WE13 LOCATION: VPB-182					ADDRESS:																																		
CITY: Virginia Beach STATE: VA ZIP: 23462			PROJECT MANAGER: Ernie Wu					CITY:				STATE: ZIP:																														
ATTENTION: Ernie Wu			E-MAIL: ernie.wu@tetratech.com					ATTENTION:				PHONE:																														
PHONE: 757-466-4901 FAX: 757-461-4148			PHONE: 757-466-4901 FAX: 757-461-4148																																							
DATA TURNAROUND INFORMATION			DATA DELIVERABLE INFORMATION					ANALYSIS																																		
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			☐ RESULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format _____					<table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">VOC(SW846-8260E)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">1,4 Dioxane (8270 SIM)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Method 522_PRC 1.4</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td></td><td></td><td></td><td></td><td></td> </tr> </table>							VOC(SW846-8260E)	1,4 Dioxane (8270 SIM)	Method 522_PRC 1.4												1	2	3	4	5	6	7	8	9					
VOC(SW846-8260E)	1,4 Dioxane (8270 SIM)	Method 522_PRC 1.4																																								
1	2	3	4	5	6	7	8	9																																		
								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.	BP-VPB-182-TB-20250610		QA		X	6/10/25	9:00	2	2										Trip Blank																							
2.	BP-VPB-182-GW-820-822		AQ		X	6/10/25	13:00	3	3																																	
3.	BP-VPB-182-GW-840-842		AQ		X	6/11/25	10:00	4	4																																	
4.	BP-VPB-182-GW-880-882		AQ		X	6/12/25	10:20	3	2	1																																
5.	BP-VPB-182-EB-20250612		QA		X	6/12/25	10:40	3	2	1									Equipment Blank																							
6.	VPB182-HYD-20250612		AQ		X	6/12/25	14:30	4	2	1	1																															
7.																																										
8.																																										
9.																																										
10.																																										
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSSION INCLUDING COURIER DELIVERY																																										
RELINQUISHED BY SAMPLER		DATE/TIME		RECEIVED BY		Conditions of bottles or coolers at receipt: q Compliant q Non Compliant q Cooler Temp <u>2.4°C</u> MeOH extraction requires an additional 4oz. Jar for percent solid q Ice in Cooler?: _____ Comments: 2 Day TAT - For VOC's see worksheet #15 of SAP 2018 for VPB program VOC list 10-DAY TAT - For 1,4 Dioxane (8270 SIM)																																				
1.		6/12/25 1630		1.																																						
RELINQUISHED BY		DATE/TIME		RECEIVED BY																																						
2.				2.																																						
RELINQUISHED BY		DATE/TIME		RECEIVED FOR LAB BY		Page <u>1</u> of <u>1</u>				SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight				Shipment Complete ☐ YES ☐ NO																												
3.		6-12-25		3.																																						
WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY																																										

CHAIN OF CUSTODY RECORD

Sub Lab INFORMATION		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION	
COMPANY : Eurofins Eaton Analytical South Bend		ORDER ID : Q2315		BILL TO: CHEMTECH PO# : Q2315	
ADDRESS : 110 South Bend		PROJECT ID: NWIRP Bethpage 112G08005-WE13		ADDRESS : 284, Sheffield Street	
CITY: South Bend	State : IN ZIP : 46617	PROJECT MANAGER YAZMEEN		CITY: Mountainside	State : NJ ZIP : 07092
E-mail : Nathan.Trowbridge@et.eurofinsus.		E-mail : yazmeen.gomez@alliancecg.com		ATTENTION : YAZMEE	
PHONE : 574-233-4777		PHONE : (908) 789 8900		PHONE : (908) 789 8900 FAX : (908) 789 8922	

EDD : ADAPT Report : Level 4

Comment :

ID	CLIENT	SAMPLE MATRIX	ANALYSIS	Preservative	Method	SAMPLE COLLECTION		# OF BOTTLES	TAT DAYS
	SAMPLE IDENTIFICATION					DATE	TIME		
01	VPB182-HYD-20250612	Water	Wet Chem Group1	um thiosulfate(Na2S2)	Cal	06/12/2025	14:30:00	1	2

Client Provided Sample Container

Initial Temp: 28.8
Corrected Temp: 28.8
IR Gun # 890

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:	☐ Compliant	☐ Non Compliant	Cooler Temp
1. <i>[Signature]</i>	1. 6/16/25	1.				Ice or Cooler?
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:				
2.		2.				
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:		☐ OVERNIGHT	☐ Shipment Complete:	
3. 0930 06/17/2025				☐ OVERNIGHT	☐ YES ☐ NO	

Login Sample Receipt Checklist

Client: Chemtech Consulting Group Inc.

Job Number: 810-152478-1

Login Number: 152478

List Number: 1

Creator: Moffitt, Heather

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	False	Client provided containers