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ANALYTICAL REPORT

PREPARED FOR

Attn: Terri Choy
AECOM
1001 Bishop Street
Honolulu HI 96813

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JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-121097-1

Eurofins Seattle
5755 8th Street East
Tacoma WA 98424

See page two for job notes and contact information.

Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

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 Environment Testing Northwest, LLC Project Manager.

Authorization

M. Elaine Walker

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Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

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

checking RPD limit for DUP and trplicate

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-121097-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

Following DoD QSM guidelines, manual integrations were performed only when necessary and are in compliance with the laboratory's standard operating procedure, Acceptable Manual Integration Practices, SOP No.: Q-S-002. The reason(s) for manual integration have been documented on the affected chromatogram(s), which is/are provided in the raw data package. The raw data also includes the original chromatogram(s) prior to any manual integration being performed. Manual integrations are detailed in the manual integration summary forms following this narrative.

It should be noted that samples with elevated Limits of Quantitation (LOQs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the LOQs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

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

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

RECEIPT
The samples were received on 12/09/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.5 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

GLYCOLS
Samples ADIT6-DU01-SON02MI-22DEC (580-121097-1), ADIT6-DU02-SON02MI-22DEC (580-121097-4) and ADIT6-DU03-SON02MI-22DEC (580-121097-7) were analyzed for glycols in accordance with EPA SW-846 Method 8015C DAI. The samples were leached on 12/16/2022 and analyzed on 12/16/2022 and 12/19/2022.

Sample ADIT6-DU03-SON02MI-22DEC (580-121097-7)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 680-755493 and analytical batch 680-755535 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected. The associated laboratory control sample (LCS) recovery is within acceptance limits.

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

PERCENT SOLIDS
Samples ADIT6-DU01-SON02MI-22DEC (580-121097-1), ADIT6-DU02-SON02MI-22DEC (580-121097-4) and ADIT6-DU03-SON02MI-22DEC (580-121097-7) were analyzed for percent solids in accordance with ASTM D2216. The samples were analyzed on 12/16/2022.

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

Detection Summary

Client: AECOM
Job ID: 580-121097-1
Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: ADIT6-DU01-SON02MI-22DEC
Lab Sample ID: 580-121097-1

No Detections.

Client Sample ID: ADIT6-DU02-SON02MI-22DEC
Lab Sample ID: 580-121097-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-(2-Butoxyethoxy)ethanol	40	J1	8.3	1.0	mg/Kg	1	☼	8015C GLY	Soluble

Client Sample ID: ADIT6-DU03-SON02MI-22DEC
Lab Sample ID: 580-121097-7

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-(2-Butoxyethoxy)ethanol	250	J1	5.6	0.69	mg/Kg	1	☼	8015C GLY	Soluble
2-(2-Butoxyethoxy)ethanol - DL	210	D	110	14	mg/Kg	20	☼	8015C GLY	Soluble

This Detection Summary does not include radiochemical test results.

Client Sample ID: ADIT6-DU01-SON02MI-22DEC
Lab Sample ID: 580-121097-1
Date Collected: 12/07/22 12:40
Matrix: Solid
Date Received: 12/09/22 09:25
Percent Solids: 87.1

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID) - Soluble

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	2.5	U	8.2	1.0	mg/Kg	☼		12/16/22 23:09	1

Client Sample ID: ADIT6-DU02-SON02MI-22DEC
Lab Sample ID: 580-121097-4
Date Collected: 12/07/22 12:55
Matrix: Solid
Date Received: 12/09/22 09:25
Percent Solids: 84.0

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID) - Soluble

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	40	J1	8.3	1.0	mg/Kg	☼		12/16/22 23:54	1

Client Sample ID: ADIT6-DU03-SON02MI-22DEC
Lab Sample ID: 580-121097-7
Date Collected: 12/07/22 13:50
Matrix: Solid
Date Received: 12/09/22 09:25
Percent Solids: 85.8

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID) - Soluble

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	250	J1	5.6	0.69	mg/Kg	☼		12/16/22 23:31	1

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID) - Soluble - DL

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	210	D	110	14	mg/Kg	☼		12/19/22 14:53	20

Default Detection Limits

Client: AECOM
Job ID: 580-121097-1
Project/Site: Red Hill - AFFF Assessment Sampling

Method: 8015C GLY - Glycols- Direct Injection (GC/FID) - Soluble

Leach: DI Leach

Analyte	LOQ	DL	Units
2-(2-Butoxyethoxy)ethanol	5.0	0.62	mg/Kg

Method: 8015C GLY - Glycols- Direct Injection (GC/FID)

Lab Sample ID: MB 680-755493/1-A
Matrix: Solid
Analysis Batch: 755535

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	1.5	U	4.9	0.60	mg/Kg			12/16/22 20:53	1

Lab Sample ID: LCS 680-755493/2-A
Matrix: Solid
Analysis Batch: 755535

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2-(2-Butoxyethoxy)ethanol			9.94	7.96		mg/Kg		80	50 - 150		

Lab Sample ID: LCSD 680-755493/3-A
Matrix: Solid
Analysis Batch: 755535

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol			9.94	6.35		mg/Kg		64	50 - 150	23	50

Lab Sample ID: 580-121097-4 MS
Matrix: Solid
Analysis Batch: 755535

Client Sample ID: ADIT6-DU02-SON02MI-22DEC
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
2-(2-Butoxyethoxy)ethanol	40	J1	10.9	30.5	J1	mg/Kg	☼	-88	50 - 150		

Lab Sample ID: 580-121097-4 MSD
Matrix: Solid
Analysis Batch: 755535

Client Sample ID: ADIT6-DU02-SON02MI-22DEC
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	40	J1	11.1	36.4	J1	mg/Kg	☼	-32	50 - 150	18	50

Lab Sample ID: 580-121097-4 DU
Matrix: Solid
Analysis Batch: 755535

Client Sample ID: ADIT6-DU02-SON02MI-22DEC
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	40	J1		25.8		mg/Kg	☼			43	50

Lab Sample ID: 580-121097-4 TRL
Matrix: Solid
Analysis Batch: 755535

Client Sample ID: ADIT6-DU02-SON02MI-22DEC
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier		TRL Result	TRL Qualifier	Unit	D			RSD	RSD Limit
2-(2-Butoxyethoxy)ethanol	40	J1		48.4		mg/Kg	☼			30	50

GC Semi VOA

Leach Batch: 755493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-121097-1	ADIT6-DU01-SON02MI-22DEC	Soluble	Solid	DI Leach	
580-121097-4	ADIT6-DU02-SON02MI-22DEC	Soluble	Solid	DI Leach	
580-121097-7	ADIT6-DU03-SON02MI-22DEC	Soluble	Solid	DI Leach	
580-121097-7 - DL	ADIT6-DU03-SON02MI-22DEC	Soluble	Solid	DI Leach	
MB 680-755493/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 680-755493/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 680-755493/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
580-121097-4 MS	ADIT6-DU02-SON02MI-22DEC	Soluble	Solid	DI Leach	
580-121097-4 MSD	ADIT6-DU02-SON02MI-22DEC	Soluble	Solid	DI Leach	
580-121097-4 DU	ADIT6-DU02-SON02MI-22DEC	Soluble	Solid	DI Leach	
580-121097-4 TRL	ADIT6-DU02-SON02MI-22DEC	Soluble	Solid	DI Leach	

Analysis Batch: 755535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-121097-1	ADIT6-DU01-SON02MI-22DEC	Soluble	Solid	8015C GLY	755493
580-121097-4	ADIT6-DU02-SON02MI-22DEC	Soluble	Solid	8015C GLY	755493
580-121097-7	ADIT6-DU03-SON02MI-22DEC	Soluble	Solid	8015C GLY	755493
MB 680-755493/1-A	Method Blank	Soluble	Solid	8015C GLY	755493
LCS 680-755493/2-A	Lab Control Sample	Soluble	Solid	8015C GLY	755493
LCSD 680-755493/3-A	Lab Control Sample Dup	Soluble	Solid	8015C GLY	755493
580-121097-4 MS	ADIT6-DU02-SON02MI-22DEC	Soluble	Solid	8015C GLY	755493
580-121097-4 MSD	ADIT6-DU02-SON02MI-22DEC	Soluble	Solid	8015C GLY	755493
580-121097-4 DU	ADIT6-DU02-SON02MI-22DEC	Soluble	Solid	8015C GLY	755493
580-121097-4 TRL	ADIT6-DU02-SON02MI-22DEC	Soluble	Solid	8015C GLY	755493

Analysis Batch: 755899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-121097-7 - DL	ADIT6-DU03-SON02MI-22DEC	Soluble	Solid	8015C GLY	755493

General Chemistry

Analysis Batch: 755516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-121097-1	ADIT6-DU01-SON02MI-22DEC	Total/NA	Solid	Moisture	
580-121097-4	ADIT6-DU02-SON02MI-22DEC	Total/NA	Solid	Moisture	
580-121097-7	ADIT6-DU03-SON02MI-22DEC	Total/NA	Solid	Moisture	
580-121097-4 MS	ADIT6-DU02-SON02MI-22DEC	Total/NA	Solid	Moisture	
580-121097-4 MSD	ADIT6-DU02-SON02MI-22DEC	Total/NA	Solid	Moisture	
580-121097-4 DU	ADIT6-DU02-SON02MI-22DEC	Total/NA	Solid	Moisture	
580-121097-4 TRL	ADIT6-DU02-SON02MI-22DEC	Total/NA	Solid	Moisture	

Lab Chronicle

Client: AECOM
Job ID: 580-121097-1
Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: ADIT6-DU01-SON02MI-22DEC
Lab Sample ID: 580-121097-1
Date Collected: 12/07/22 12:40
Matrix: Solid
Date Received: 12/09/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	755516	KF	EET SAV	12/16/22 14:29

Client Sample ID: ADIT6-DU01-SON02MI-22DEC
Lab Sample ID: 580-121097-1
Date Collected: 12/07/22 12:40
Matrix: Solid
Date Received: 12/09/22 09:25
Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			755493	GEM	EET SAV	12/16/22 12:26
Soluble	Analysis	8015C GLY		1	755535	JCK	EET SAV	12/16/22 23:09

Client Sample ID: ADIT6-DU02-SON02MI-22DEC
Lab Sample ID: 580-121097-4
Date Collected: 12/07/22 12:55
Matrix: Solid
Date Received: 12/09/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	755516	KF	EET SAV	12/16/22 14:29

Client Sample ID: ADIT6-DU02-SON02MI-22DEC
Lab Sample ID: 580-121097-4
Date Collected: 12/07/22 12:55
Matrix: Solid
Date Received: 12/09/22 09:25
Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			755493	GEM	EET SAV	12/16/22 12:26
Soluble	Analysis	8015C GLY		1	755535	JCK	EET SAV	12/16/22 23:54

Client Sample ID: ADIT6-DU03-SON02MI-22DEC
Lab Sample ID: 580-121097-7
Date Collected: 12/07/22 13:50
Matrix: Solid
Date Received: 12/09/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	755516	KF	EET SAV	12/16/22 14:29

Client Sample ID: ADIT6-DU03-SON02MI-22DEC
Lab Sample ID: 580-121097-7
Date Collected: 12/07/22 13:50
Matrix: Solid
Date Received: 12/09/22 09:25
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			755493	GEM	EET SAV	12/16/22 12:26
Soluble	Analysis	8015C GLY		1	755535	JCK	EET SAV	12/16/22 23:31
Soluble	Leach	DI Leach	DL		755493	GEM	EET SAV	12/16/22 12:26
Soluble	Analysis	8015C GLY	DL	20	755899	JCK	EET SAV	12/19/22 14:53

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: AECOM
Job ID: 580-121097-1
Project/Site: Red Hill - AFFF Assessment Sampling

Laboratory: Eurofins Savannah

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2463	09-22-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015C GLY		Solid	2-(2-Butoxyethoxy)ethanol
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: AECOM
Job ID: 580-121097-1
Project/Site: Red Hill - AFFF Assessment Sampling

Method	Method Description	Protocol	Laboratory
8015C GLY	Glycols- Direct Injection (GC/FID)	SW846	EET SAV
Moisture	Percent Moisture	EPA	EET SAV
DI Leach	Deionized Water Leaching Procedure	ASTM	EET SAV

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: AECOM
Job ID: 580-121097-1
Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-121097-1	ADIT6-DU01-SON02MI-22DEC	Solid	12/07/22 12:40	12/09/22 09:25
580-121097-4	ADIT6-DU02-SON02MI-22DEC	Solid	12/07/22 12:55	12/09/22 09:25
580-121097-7	ADIT6-DU03-SON02MI-22DEC	Solid	12/07/22 13:50	12/09/22 09:25

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Instrument ID: CVGG2 Analysis Batch Number: 755296

Lab Sample ID: IC 680-755296/7 Client Sample ID:

Date Analyzed: 12/15/22 13:40 Lab File ID: 22GL15007.D GC Column: J&W DB WAX ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	7.82	Baseline Smoothing	SWK1	12/15/22 18:33
Ethylene glycol	8.22	Baseline Smoothing	SWK1	12/15/22 18:33
Triethylene Glycol	11.16	Baseline Smoothing	SWK1	12/15/22 18:27

Lab Sample ID: IC 680-755296/8 Client Sample ID:

Date Analyzed: 12/15/22 14:03 Lab File ID: 22GL15008.D GC Column: J&W DB WAX ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	11.16	Baseline Smoothing	SWK1	12/15/22 18:28

Lab Sample ID: IC 680-755296/9 Client Sample ID:

Date Analyzed: 12/15/22 14:26 Lab File ID: 22GL15009.D GC Column: J&W DB WAX ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	11.16	Baseline Smoothing	SWK1	12/15/22 18:28

Lab Sample ID: ICIS 680-755296/10 Client Sample ID:

Date Analyzed: 12/15/22 14:48 Lab File ID: 22GL15010.D GC Column: J&W DB WAX ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	7.83	Baseline Smoothing	SWK1	12/15/22 18:31
Ethylene glycol	8.22	Baseline Smoothing	SWK1	12/15/22 18:31
2-(2-Butoxyethoxy)ethanol	9.49	Baseline Smoothing	SWK1	12/15/22 18:31
Triethylene Glycol	11.16	Baseline Smoothing	SWK1	12/15/22 18:28

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Instrument ID: CVGG2 Analysis Batch Number: 755296

Lab Sample ID: IC 680-755296/11 Client Sample ID:

Date Analyzed: 12/15/22 15:11 Lab File ID: 22GL15011.D GC Column: J&W DB WAX ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	7.84	Baseline Smoothing	SWK1	12/15/22 18:31
Ethylene glycol	8.22	Baseline Smoothing	SWK1	12/15/22 18:31
Triethylene Glycol	11.16	Baseline Smoothing	SWK1	12/15/22 18:28

Lab Sample ID: IC 680-755296/12 Client Sample ID:

Date Analyzed: 12/15/22 15:34 Lab File ID: 22GL15012.D GC Column: J&W DB WAX ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	7.82	Baseline Smoothing	SWK1	12/15/22 18:29
Ethylene glycol	8.22	Baseline Smoothing	SWK1	12/15/22 18:29
Triethylene Glycol	11.16	Baseline Smoothing	SWK1	12/15/22 18:29

Lab Sample ID: ICV 680-755296/13 CCV Client Sample ID:

Date Analyzed: 12/15/22 15:56 Lab File ID: 22GL15013.D GC Column: J&W DB WAX ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	11.16	Baseline Smoothing	SWK1	12/15/22 18:29

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SG_Gly_CAL_00047	02/07/23		o2si, Lot 480919		(Purchased Reagent)		2,2'-Oxybisethanol	2000 ug/mL
							2-(2-Butoxyethoxy)ethanol	2000 ug/mL
							2-Butoxyethanol	2000 ug/mL
							4-Hydroxy-4-methyl-2-pentanone	2000 ug/mL
							Dipropylene Glycol Methyl Ether	2000 ug/mL
							Ethanol, 2-propoxy	2000 ug/mL
							Ethylene glycol	2000 ug/mL
							Propylene glycol	2000 ug/mL
							Tetraethylene Glycol	4000 ug/mL
							Triethylene Glycol	2000 ug/mL
SG_GLY_ISTD_00099	04/25/23		Agilent, Lot 0006670821		(Purchased Reagent)		n-Heptyl Alcohol	5000 ug/mL
SG_GlyICV_00056	05/04/23		o2si, Lot 454407		(Purchased Reagent)		2,2'-Oxybisethanol	2000 ug/mL
							2-(2-Butoxyethoxy)ethanol	2000 ug/mL
							2-Butoxyethanol	2000 ug/mL
							4-Hydroxy-4-methyl-2-pentanone	2000 ug/mL
							Dipropylene Glycol Methyl Ether	2000 ug/mL
							Ethanol, 2-propoxy	2000 ug/mL
							Ethylene glycol	2000 ug/mL
							Propylene glycol	2000 ug/mL
							Tetraethylene Glycol	4000 ug/mL
							Triethylene Glycol	2000 ug/mL

Reagent

SG_Gly_CAL_00047

ACCREDITED
ISO/IEC 17025 Accredited
Chemical Testing Lab
Cert. No. 3031.01

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smart solutions®

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Cert. No. 3031.02

Rev 0

Certificate of Analysis

Catalog No.	Lot No.	Storage	Solvent	Date Received	Exp. Date
G34-120070-04	480919	≤ -10 °C	P/T Methanol		2-May-2024

Description:
ISO 17034 -Custom Volatiles Mix,105-12, 2000 & 4,000 mg/L, 1 mL

Container:
1 ml Ampule, Amber Glass

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this Certified Reference Material (CRM). This CRM has been confirmed by GC/MS, GC, HPLC, UPLC/HRAM-MS, UV/VIS, Enzymatic, and/or wet chemistry techniques using internally developed method(s) against independent source(s). The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2. The purity of neat materials not traceable to an ISO 17034:2016 accredited Reference Material Provider is traceable to internal analysis by GC, GC/MS, HPLC, Enzymatic, or wet chemistry techniques and compared to a National Metrological Institute such as NIST where feasible.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
2-butoxyethanol	111-76-2	99.6	311.9.2P	1986 ± 100	mg/L
diethylene glycol butyl ether	112-34-5	99.8	2323.7.2P	2008 ± 100	mg/L
propyl cellosolve	2807-30-9	99.9	1570.7.2P	1980 ± 100	mg/L
dipropylene glycol monomethyl ether	34590-94-8	99.7	2333.7.2P	2014 ± 100	mg/L
ethylene glycol	107-21-1	100	307.201.1P	1968 ± 99	mg/L
di(ethylene glycol)	111-46-6	99.5	309.7.2P	1994 ± 100	mg/L
tri(ethylene glycol)	112-27-6	99.9	310.7.2.1.1P	1974 ± 110	mg/L
4-Hydroxy-4-methyl-2-pentanone	123-42-2	98	2334.286.1P	1991 ± 110	mg/L
1,2-propanediol	57-55-6	99.5	306.9.3P	1998 ± 100	mg/L
tetraethylene glycol	112-60-7	98	3754.7.1P	3959 ± 200	mg/L

Intended Uses:

This CRM is intended for use as a calibration standard or a quality control standard for chromatography equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various USEPA, NIOSH and ASTM methods.

Recommended storage container for ampuled products after opening is a 12 mm x 32 mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

Catalog No. G34-120070-04 **Lot No.** 480919 **Expiration Date** 2 -May-2024

$$\% \text{ Change} = 116192x^{-2.578} + 40.383e^{-0.03y}$$

where x = boiling point of the most volatile analyte in the mix (in degrees K)
y = boiling point of the solvent (in degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

This standard was prepared gravimetrically using balances calibrated with National Institute of Standards and Technology (NIST) traceable weights (NIST Test Numbers 822/273070-06, 822/275141-07, 822/278993-10). Only calibrated Class A volumetric glassware and/or calibrated syringes were used to prepare this standard. Raw materials may have been checked for stoichiometry and purity prior to use. This standard has been analyzed against an independent source.

Packaging and Storage:

The solution should be stored according to the following storage requirements: ≤ -10 °C
Once the product is opened, it should be transferred to a vial with minimum head space if the product was received in a sealed ampule.

Glassware Calibration:

Only Class A glassware and/or calibrated syringes are used in the manufacture and quality control of standards. All glassware is calibrated using NIST traceable weights.

Weights and Balance Calibration:

Weights used to perform daily checks on balances are calibrated annually by the State of South Carolina Department of Agriculture Metrology Laboratory and are traceable to NIST. Balances are checked daily in accordance to procedure O2-LB-G-002. Balances are calibrated annually by an ISO/IEC 17025:2017 accredited metrology service.

Homogeneity:

Homogeneity has been established in accordance with internal procedure O2-QS-011 and has a maximum uncertainty of 0.1%. This is consistent with the intended use of this CRM. The homogeneity of this product has been confirmed by procedures consistent with ISO/IEC 17025:2017 and ISO 17034:2016. The homogeneity of this CRM is valid for sample sub-sizes that the end user can quantitatively reproduce.

Hazardous Information:

Refer to MSDS.

Calculation of Uncertainty:

The following equations are used to calculate the value of the expanded uncertainty:
$u = ku_c$ u = Expanded Uncertainty, k = the coverage factor at the 95% confidence level, k = 2, u_c = the combined uncertainty
$u_c = (u_{char}^2 + u_{tran}^2 + u_{homo}^2 + u_{lts}^2)^{1/2}$ where u_i are the individual uncertainty components for manufacturing, transportation, homogeneity, and shelf life. While no significant uncertainty was detected in the replicates, a minimum contribution to

Manufactured By:	**Certified By:**	**Released By:**
Brian Stokes	Tyler Sherman	Susan Mathews
3 -May-2022	14 -Jun-2022	14 -Jun-2022
Production Chemist I	**Quality Control Chemist I**	**Quality Control Team Lead**

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uncertainty was added for homogeneity and long term stability as described in ISO Guide 35:2017.

Expiration Information:

The stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. Studies on the short term instability have determined no contribution to instability as observed on the concentration under controlled transportation conditions. This standard is guaranteed until 2-May-2024

Quality Standard Documentation:

- ISO/IEC 17025:2017 "General Requirements for the Competence of Testing and Calibration" - Chemical Testing - Accredited A2LA Certificate Number 3031.01
- ISO 17034:2016 "General Requirements for the Competence of Reference Material Producers" - Reference Material Production - Accredited A2LA Certificate Number 3031.02

Manufactured By:	**Certified By:**	**Released By:**
Brian Stokes	Tyler Sherman	Susan Mathews
3 -May-2022	14 -Jun-2022	14 -Jun-2022
Production Chemist I	**Quality Control Chemist I**	**Quality Control Team Lead**

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Reagent

SG_GLY_ISTD_00099

ISO 17034

Agilent
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Reference Material Certificate

Product Name:	Custom Standard	**Lot Number:**	0006670821
Product Number:	CUS-6046	**Lot Issue Date:**	14-Mar-2022
Storage Conditions:	Store at Room Temperature (15° to 30°C).	**Expiration Date:**	30-Apr-2024

	CERTIFIED VALUES			
Component Name	Concentration	Expanded Uncertainty	CAS#	Analyte Lot
n-heptanol	5024 ±	25 µg/mL	000111-70-6	RM04540

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/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

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

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

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

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

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

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

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

Reagent

SG_GlyICV_00056

ISO/IEC 17025 Accredited
Chemical Testing Lab
Cert. No. 3031.01

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ISO 17034 Accredited
Reference Material Producer
Cert. No. 3031.02

Certificate of Analysis

Catalog No.	Lot No.	Storage	Solvent	Date Received	Exp. Date
G34-120070-04-SS	454407	≤ -10 °C	P/T Methanol		1-Jul-2023

Description:
ISO 17034 -Custom Volatiles Mix,105-12, Second Source, 2000 & 4,000 mg/L, 1 mL

Container:
1 ml Ampule, Amber Glass

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this Certified Reference Material (CRM). This CRM has been confirmed by GC/MS, GC, HPLC, UPLC/HRAM-MS, UV/VIS, Enzymatic, and/or wet chemistry techniques using internally developed method(s) against independent source(s). The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2. The purity of neat materials not traceable to an ISO 17034:2016 accredited Reference Material Provider is traceable to internal analysis by GC, GC/MS, HPLC, Enzymatic, or wet chemistry techniques and compared to a National Metrological Institute such as NIST where feasible.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration	
2-butoxyethanol	111-76-2	99.5	311.7.1.1S	1994 ± 100	mg/L
diethylene glycol butyl ether	112-34-5	99.8	2323.7.2.1S	1992 ± 100	mg/L
2-propoxyethanol	2807-30-9	99.5	1570.7.1S	1998 ± 110	mg/L
dipropylene glycol monomethyl ether	34590-94-8	99.7	2333.7.2.1S	1998 ± 100	mg/L
ethylene glycol	107-21-1	100	307.201.1.1S	2016 ± 100	mg/L
di(ethylene glycol)	111-46-6	99.9	309.7.1.1S	1998 ± 100	mg/L
tri(ethylene glycol)	112-27-6	99.9	310.7.3.1S	2010 ± 100	mg/L
4-Hydroxy-4-methyl-2-pentanone	123-42-2	98	2334.286.1.1S	2003 ± 110	mg/L
1,2-propanediol	57-55-6	99.6	306.370.1.1S	2004 ± 110	mg/L
tetraethylene glycol	112-60-7	98	3754.7.1.1S	4049 ± 200	mg/L

Intended Uses:

This CRM is intended for use as a calibration standard or a quality control standard for chromatography equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various USEPA, NIOSH and ASTM methods.

Recommended storage container for ampuled products after opening is a 12 mm x 32 mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

Certificate of Analysis

Catalog No. G34-120070-04-SS **Lot No.** 454407 **Expiration Date** 1 -Jul-2023

$$\% \text{ Change} = 116192x^{-2.578} + 40.383e^{-0.03y}$$

where x = boiling point of the most volatile analyte in the mix (in degrees K)
y = boiling point of the solvent (in degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

This standard was prepared gravimetrically using balances calibrated with National Institute of Standards and Technology (NIST) traceable weights (NIST Test Numbers 822/273070-06, 822/275141-07, 822/278993-10). Only calibrated Class A volumetric glassware and/or calibrated syringes were used to prepare this standard. Raw materials may have been checked for stoichiometry and purity prior to use. This standard has been analyzed against an independent source.

Packaging and Storage:

The solution should be stored according to the following storage requirements: ≤ -10 °C
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Glassware Calibration:

Only Class A glassware and/or calibrated syringes are used in the manufacture and quality control of standards. All glassware is calibrated using NIST traceable weights.

Weights and Balance Calibration:

Weights used to perform daily checks on balances are calibrated annually by the State of South Carolina Department of Agriculture Metrology Laboratory and are traceable to NIST. Balances are checked daily in accordance to procedure O2-LB-G-002. Balances are calibrated annually by an ISO/IEC 17025:2017 accredited metrology service.

Homogeneity:

Homogeneity has been established in accordance with internal procedure O2-QS-011 and has a maximum uncertainty of 0.1%. This is consistent with the intended use of this CRM. The homogeneity of this product has been confirmed by procedures consistent with ISO/IEC 17025:2017 and ISO 17034:2016. The homogeneity of this CRM is valid for sample sub-sizes that the end user can quantitatively reproduce.

Hazardous Information:

Refer to MSDS.

Calculation of Uncertainty:

The following equations are used to calculate the value of the expanded uncertainty:
$u = ku_c$ u = Expanded Uncertainty, k = the coverage factor at the 95% confidence level, k = 2, u_c = the combined uncertainty
$u_c = (u_{char}^2 + u_{tran}^2 + u_{homo}^2 + u_{lts}^2)^{1/2}$ where u_i are the individual uncertainty components for manufacturing, transportation, homogeneity, and shelf life. While no significant uncertainty was detected in the replicates, a minimum contribution to

Manufactured By:	**Certified By:**	**Released By:**
Jared Ball	Claire Desrochers	Susan Mathews
1 -Jul-2021	7 -Jul-2021	8 -Jul-2021
Quality Control Chemist I	**Quality Control Chemist I**	**Quality Control Team Lead**

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uncertainty was added for homogeneity and long term stability as described in ISO Guide 35:2017.

Expiration Information:

The stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. Studies on the short term instability have determined no contribution to instability as observed on the concentration under controlled transportation conditions. This standard is guaranteed until 1-Jul-2023

Quality Standard Documentation:

- ISO/IEC 17025:2017 "General Requirements for the Competence of Testing and Calibration" - Chemical Testing - Accredited A2LA Certificate Number 3031.01
- ISO 17034:2016 "General Requirements for the Competence of Reference Material Producers" - Reference Material Production - Accredited A2LA Certificate Number 3031.02

Manufactured By:	**Certified By:**	**Released By:**
Jared Ball	Claire Desrochers	Susan Mathews
1 -Jul-2021	7 -Jul-2021	8 -Jul-2021
Quality Control Chemist I	**Quality Control Chemist I**	**Quality Control Team Lead**

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Method 8015C - DAI Glycols

Glycols -Direct Injection (GC/FID) - Method 8015C

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Matrix: Solid (Soluble) Level: Low Lab File ID: 22GL16009.D

Lab ID: LCS 680-755493/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
2-(2-Butoxyethoxy)ethanol	9.94	7.96	80	50-150	

Column to be used to flag recovery and RPD values

FORM III 8015C GLY

FORM III
GC SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Matrix: Solid (Soluble) Level: Low Lab File ID: 22GL16010.D

Lab ID: LCSD 680-755493/3-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCSD CONCENTRATION (mg/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2-(2-Butoxyethoxy)ethanol	9.94	6.35	64	23	50	50-150	

Column to be used to flag recovery and RPD values

FORM III 8015C GLY

FORM III
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Matrix: Solid (Soluble) Level: Low Lab File ID: 22GL16025.D

Lab ID: 580-121097-4 MS Client ID: ADIT6-DU02-SON02MI-22DEC MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
2-(2-Butoxyethoxy)ethanol	10.9	40	30.5	-88	50-150	J1

Column to be used to flag recovery and RPD values

FORM III 8015C GLY

FORM III
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Matrix: Solid (Soluble) Level: Low Lab File ID: 22GL16026.D

Lab ID: 580-121097-4 MSD Client ID: ADIT6-DU02-SON02MI-22DEC MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2-(2-Butoxyethoxy)ethanol	11.1	36.4	-32	18	50	50-150	J1

Column to be used to flag recovery and RPD values

FORM III 8015C GLY

GC SEMI VOA DUPLICATE SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Matrix: Solid (Soluble) Level: Low Lab File ID: 22GL16023.D

Lab ID: 580-121097-4 DU Client ID: ADIT6-DU02-SON02MI-22DEC DU

COMPOUND	SAMPLE CONCENTRATION (mg/Kg)	DUPLICATE CONCENTRATION (mg/Kg)	%RPD	%RPD LIMIT	#
2-(2-Butoxyethoxy)ethanol	40	25.8	43	50	

Column to be used to flag %RPD values

8015C GLY

GC SEMI VOA TRIPLICATE SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Matrix: Solid (Soluble) Level: Low Lab File ID: 22GL16024.D

Lab ID: 580-121097-4 TRL Client ID: ADIT6-DU02-SON02MI-22DEC TRL

COMPOUND	SAMPLE CONC. (mg/Kg)	DUPLICATE CONC. (mg/Kg)	TRIPLICATE CONC. (mg/Kg)	%RSD	%RSD LIMIT	#
2-(2-Butoxyethoxy)ethanol	40	25.8	48.4	30	50	

Column to be used to flag %RSD

8015C GLY

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Lab Sample ID: MB 680-755493/1-A

Matrix: Solid (Soluble) Date Extracted:

Lab File ID:(1) 22GL16014.D Lab File ID:(2)

Date Analyzed:(1) 12/16/2022 20:53 Date Analyzed:(2)

Instrument ID:(1) CVGG2 Instrument ID:(2)

GC Column:(1) J&W DB WAX ID: 0.45(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 680-755493/2-A	12/16/2022 19:00	
	LCSD 680-755493/3-A	12/16/2022 19:23	
ADIT6-DU01-SON02MI-22DEC	580-121097-1	12/16/2022 23:09	
ADIT6-DU03-SON02MI-22DEC	580-121097-7	12/16/2022 23:31	
ADIT6-DU02-SON02MI-22DEC	580-121097-4	12/16/2022 23:54	
ADIT6-DU02-SON02MI-22DEC DU	580-121097-4 DU	12/17/2022 00:16	
ADIT6-DU02-SON02MI-22DEC TRL	580-121097-4 TRL	12/17/2022 00:39	
ADIT6-DU02-SON02MI-22DEC MS	580-121097-4 MS	12/17/2022 01:01	
ADIT6-DU02-SON02MI-22DEC MSD	580-121097-4 MSD	12/17/2022 01:24	
ADIT6-DU03-SON02MI-22DEC DL	580-121097-7 DL	12/19/2022 14:53	

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

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Sample No.: ICIS 680-755296/10 Date Analyzed: 12/15/2022 14:48

Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45(mm)

Lab File ID (Standard): 22GL15010.D Heated Purge: (Y/N) N

Calibration ID: 88697

		nHPA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		6443842	5.71				
UPPER LIMIT		12887684	6.21				
LOWER LIMIT		3221921	5.21				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 680-755296/13 CCV		7820966	5.71				

nHPA = n-Heptyl Alcohol

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Sample No.: CCVIS 680-755899/5 Date Analyzed: 12/19/2022 13:45

Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45(mm)

Lab File ID (Standard): 22GL19005.D Heated Purge: (Y/N) N

Calibration ID: 88697

		nHPA					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		5296247	5.80				
UPPER LIMIT		10592494	6.30				
LOWER LIMIT		2648124	5.30				
LAB SAMPLE ID	CLIENT SAMPLE ID						
580-121097-7 DL	ADIT6-DU03-SON02MI-22DEC DL	8161623	5.80				
CCV 680-755899/10		7704153	5.80				

nHPA = n-Heptyl Alcohol

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Client Sample ID: ADIT6-DU01-SON02MI-22DEC Lab Sample ID: 580-121097-1

Matrix: Solid (Soluble) Lab File ID: 22GL16020.D

Analysis Method: 8015C GLY Date Collected: 12/07/2022 12:40

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 12/16/2022 23:09

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

Injection Volume: 1(uL) GC Column: J&W DB WAX ID: 0.45(mm)

% Moisture: 12.9 % Solids: 87.1 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 755535 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	2.5	U	8.2	2.5	1.0

Eurofins Savannah
Target Compound Quantitation Report

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16020.D				
Lims ID:	580-121097-C-1-A				
Client ID:	ADIT6-DU01-SON02MI-22DEC				
Sample Type:	Client				
Inject. Date:	16-Dec-2022 23:09:04	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0082779-020				
Operator ID:		Instrument ID:	CVGG2		
Method:	\\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015_GLY_VGG.m				
Limit Group:	8015C_DAI				
Last Update:	17-Dec-2022 10:58:31	Calib Date:	15-Dec-2022 15:34:13		
Integrator:	Falcon				
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D				
Column 1 :	J&W DB WAX (0.45 mm)		Det: GC FID2B		
Process Host:	CTX1633				

First Level Reviewer: SWK1 Date: 17-Dec-2022 10:58:01

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
* 4 n-Heptyl Alcohol					
5.746	5.738	0.008	8165348	50.0	

QC Flag Legend

Processing Flags

Reagents:

SG_GLY_ISTD_00099 Amount Added: 10.00 Units: uL Run Reagent

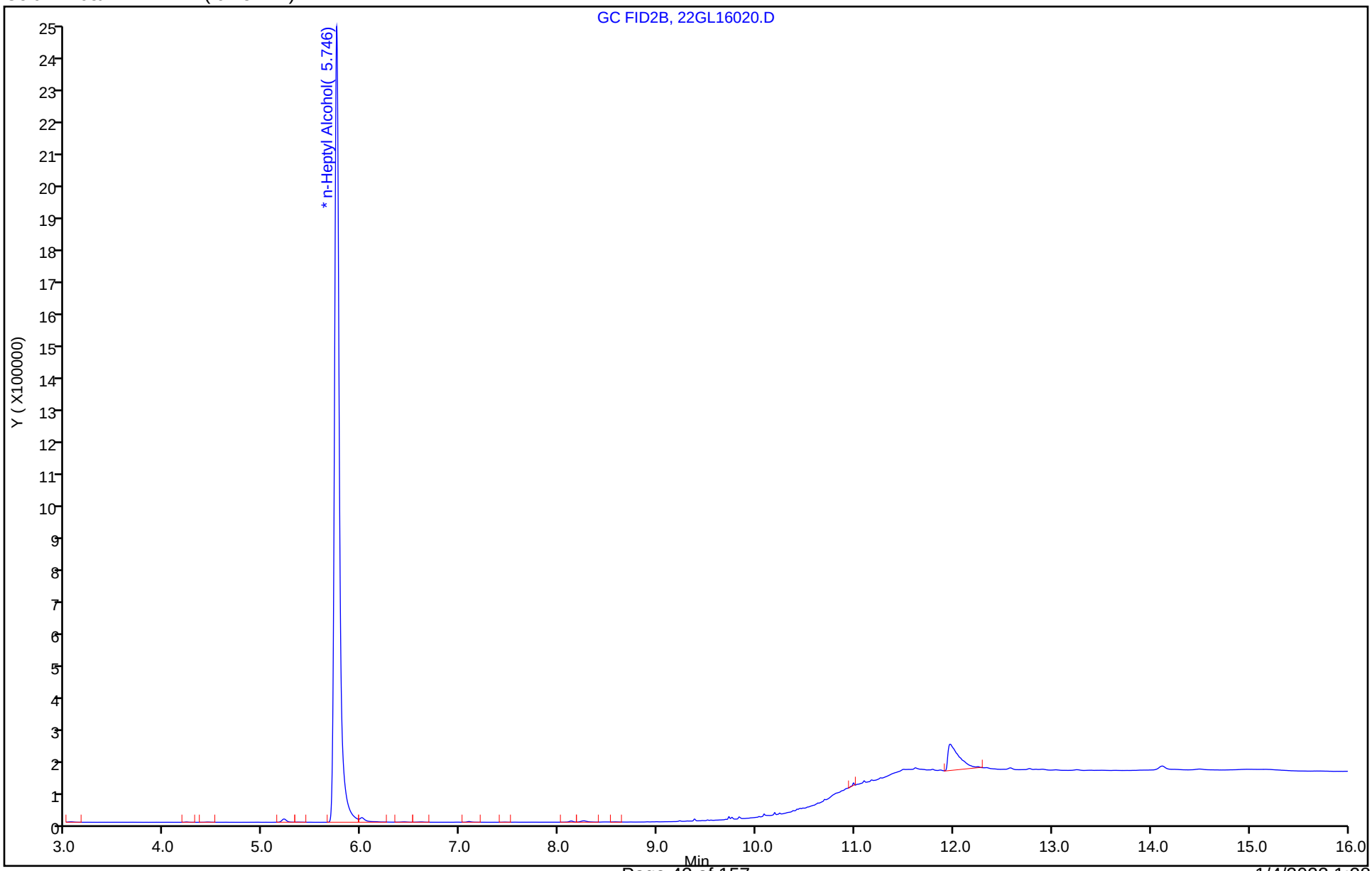
Report Date: 17-Dec-2022 11:05:36 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16020.D

Injection Date:	16-Dec-2022 23:09:04	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	580-121097-C-1-A	Lab Sample ID:	680-121097-1	Worklist Smp#:	20
Client ID:	ADIT6-DU01-SON02MI-22DEC				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)



1/4/2023 1:28 PM

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Client Sample ID: ADIT6-DU02-SON02MI-22DEC Lab Sample ID: 580-121097-4

Matrix: Solid (Soluble) Lab File ID: 22GL16022.D

Analysis Method: 8015C GLY Date Collected: 12/07/2022 12:55

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 12/16/2022 23:54

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

Injection Volume: 1(uL) GC Column: J&W DB WAX ID: 0.45(mm)

% Moisture: 16.0 % Solids: 84.0 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 755535 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	40	J1	8.3	2.5	1.0

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16022.D
Lims ID: 580-121097-C-4-A
Client ID: ADIT6-DU02-SON02MI-22DEC
Sample Type: Client
Inject. Date: 16-Dec-2022 23:54:08 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0082779-022
Operator ID: Instrument ID: CVGG2

Method: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 17-Dec-2022 10:58:31 Calib Date: 15-Dec-2022 15:34:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host: CTX1633

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
* 4 n-Heptyl Alcohol					
5.745	5.738	0.007	7967643	50.0	
8 2-(2-Butoxyethoxy)ethanol					
9.506	9.504	0.002	1898752	24.0	

Reagents:

SG_GLY_ISTD_00099 Amount Added: 10.00 Units: uL Run Reagent

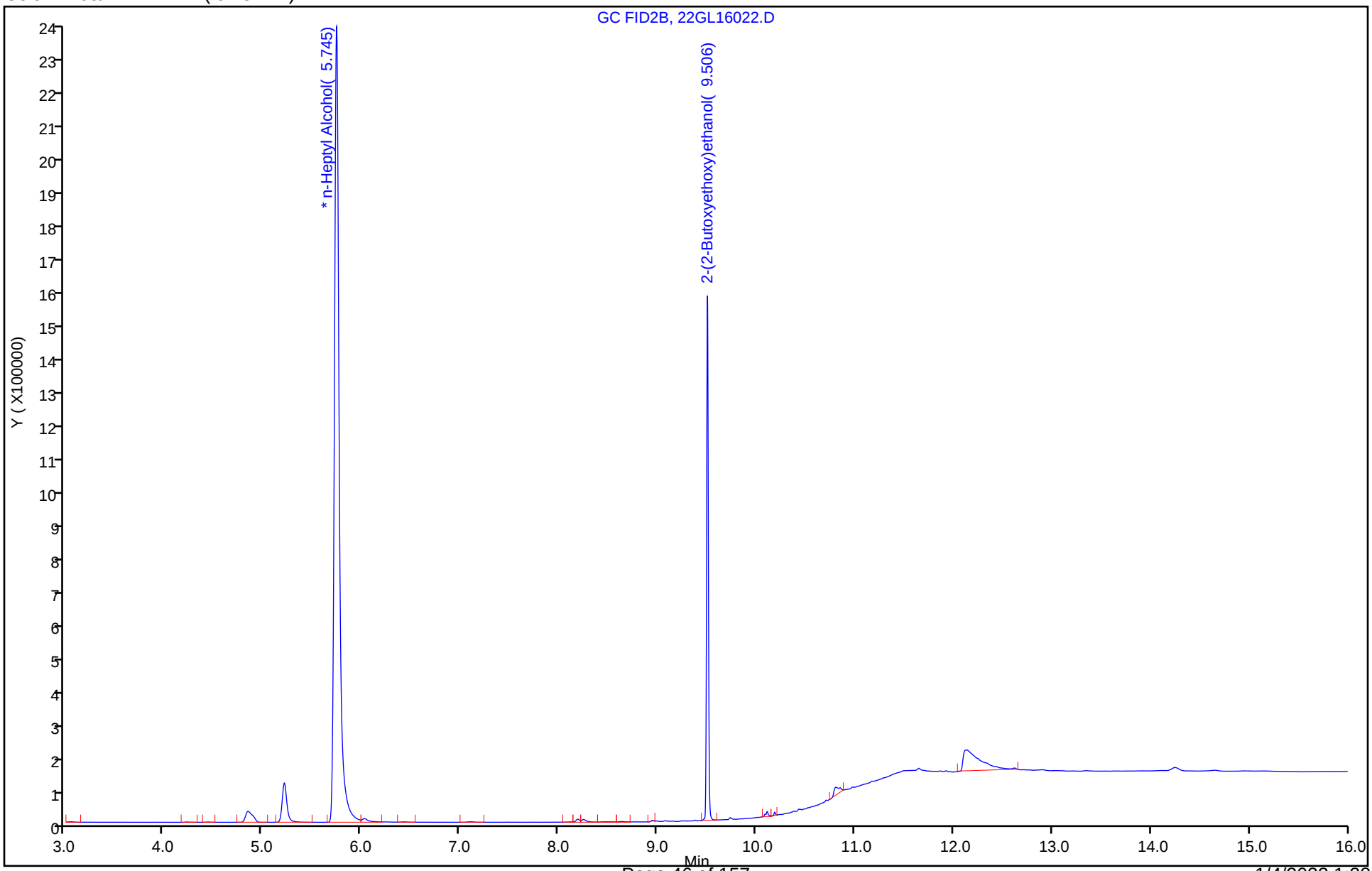
Report Date: 17-Dec-2022 11:05:37 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16022.D

Injection Date:	16-Dec-2022 23:54:08	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	580-121097-C-4-A	Lab Sample ID:	680-121097-4	Worklist Smp#:	22
Client ID:	ADIT6-DU02-SON02MI-22DEC				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)



1/4/2023 1:28 PM

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Client Sample ID: ADIT6-DU03-SON02MI-22DEC Lab Sample ID: 580-121097-7

Matrix: Solid (Soluble) Lab File ID: 22GL16021.D

Analysis Method: 8015C GLY Date Collected: 12/07/2022 13:50

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 12/16/2022 23:31

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

Injection Volume: 1(uL) GC Column: J&W DB WAX ID: 0.45(mm)

% Moisture: 14.2 % Solids: 85.8 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 755535 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	250	J1	5.6	1.7	0.69

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16021.D
Lims ID: 580-121097-B-7-A
Client ID: ADIT6-DU03-SON02MI-22DEC
Sample Type: Client
Inject. Date: 16-Dec-2022 23:31:33 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0082779-021
Operator ID: Instrument ID: CVGG2

Method: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 17-Dec-2022 10:58:31 Calib Date: 15-Dec-2022 15:34:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host: CTX1633

First Level Reviewer: SWK1 Date: 17-Dec-2022 10:58:09

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
* 4 n-Heptyl Alcohol					
5.746	5.738	0.008	7527562	50.0	
8 2-(2-Butoxyethoxy)ethanol					E
9.508	9.504	0.004	16711727	223.7	E

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Reagents:

SG_GLY_ISTD_00099 Amount Added: 10.00 Units: uL Run Reagent

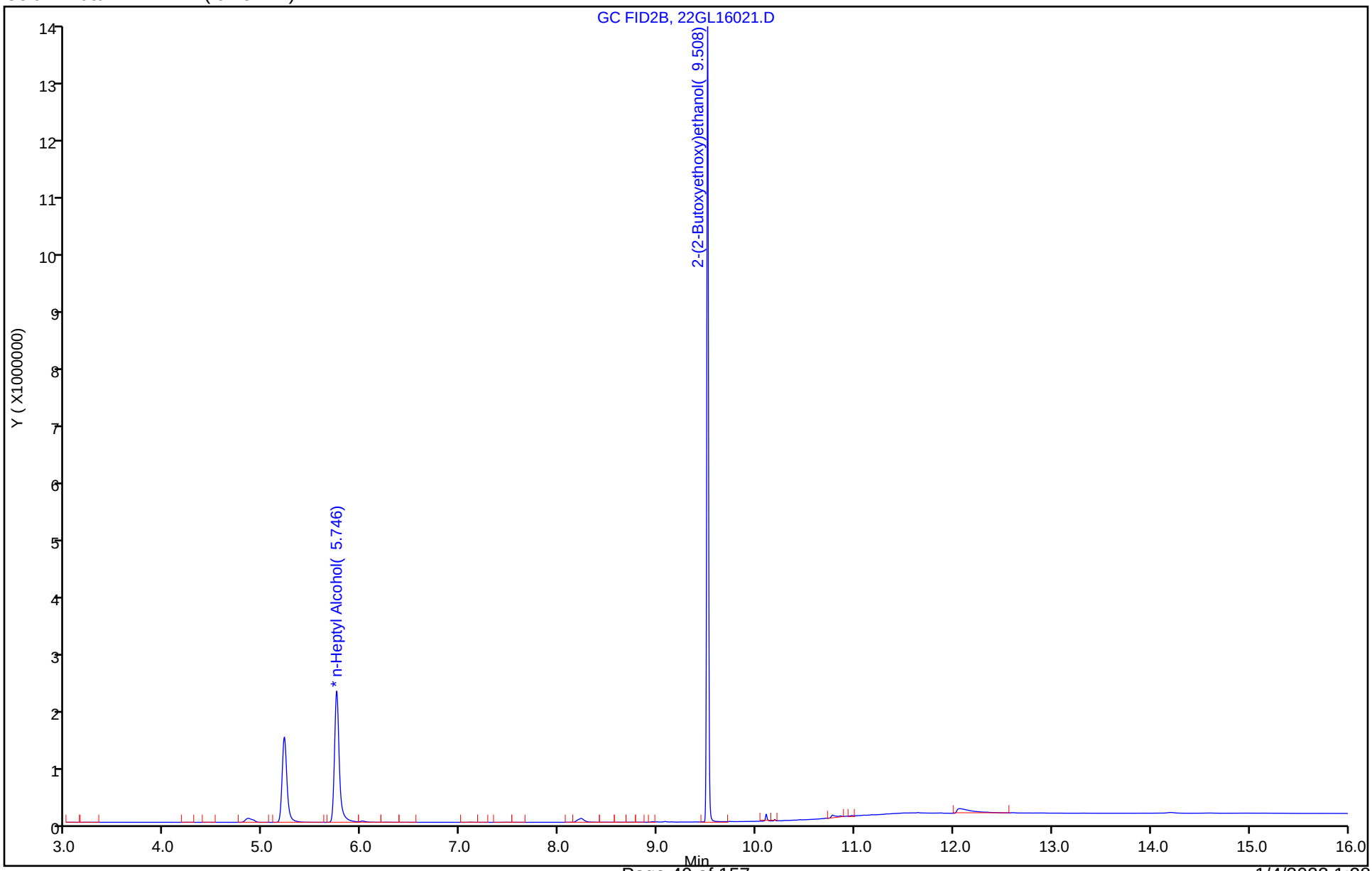
Report Date: 17-Dec-2022 11:05:37 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16021.D

Injection Date:	16-Dec-2022 23:31:33	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	580-121097-B-7-A	Lab Sample ID:	680-121097-7	Worklist Smp#:	21
Client ID:	ADIT6-DU03-SON02MI-22DEC				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)



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FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah | Job No.: 580-121097-1

SDG No.:

Client Sample ID: ADIT6-DU03-SON02MI-22DEC DL | Lab Sample ID: 580-121097-7 DL

Matrix: Solid (Soluble) | Lab File ID: 22GL19008.D

Analysis Method: 8015C GLY | Date Collected: 12/07/2022 13:50

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 12/19/2022 14:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: J&W DB WAX ID: 0.45(mm)

% Moisture: 14.2 % Solids: 85.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 755899 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	*2-(2-Butoxyethoxy)ethanol*	*210*	*D*	*110*	33	*14*

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221219-82846.b\22GL19008.D
Lims ID: 580-121097-B-7-A
Client ID: ADIT6-DU03-SON02MI-22DEC
Sample Type: Client
Inject. Date: 19-Dec-2022 14:53:04 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: 680-0082846-008
Operator ID: Instrument ID: CVGG2

Method: \\chromfs\Savannah\ChromData\CVGG2\20221219-82846.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 20-Dec-2022 10:50:04 Calib Date: 15-Dec-2022 15:34:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host: CTX1668

First Level Reviewer: SK9U Date: 19-Dec-2022 15:26:09

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
* 4 n-Heptyl Alcohol					
5.796	5.801	-0.005	8161623	50.0	
8 2-(2-Butoxyethoxy)ethanol					
9.524	9.525	-0.001	781135	9.64	

QC Flag Legend

Processing Flags

Reagents:

SG_GLY_ISTD_00099 Amount Added: 10.00 Units: uL Run Reagent

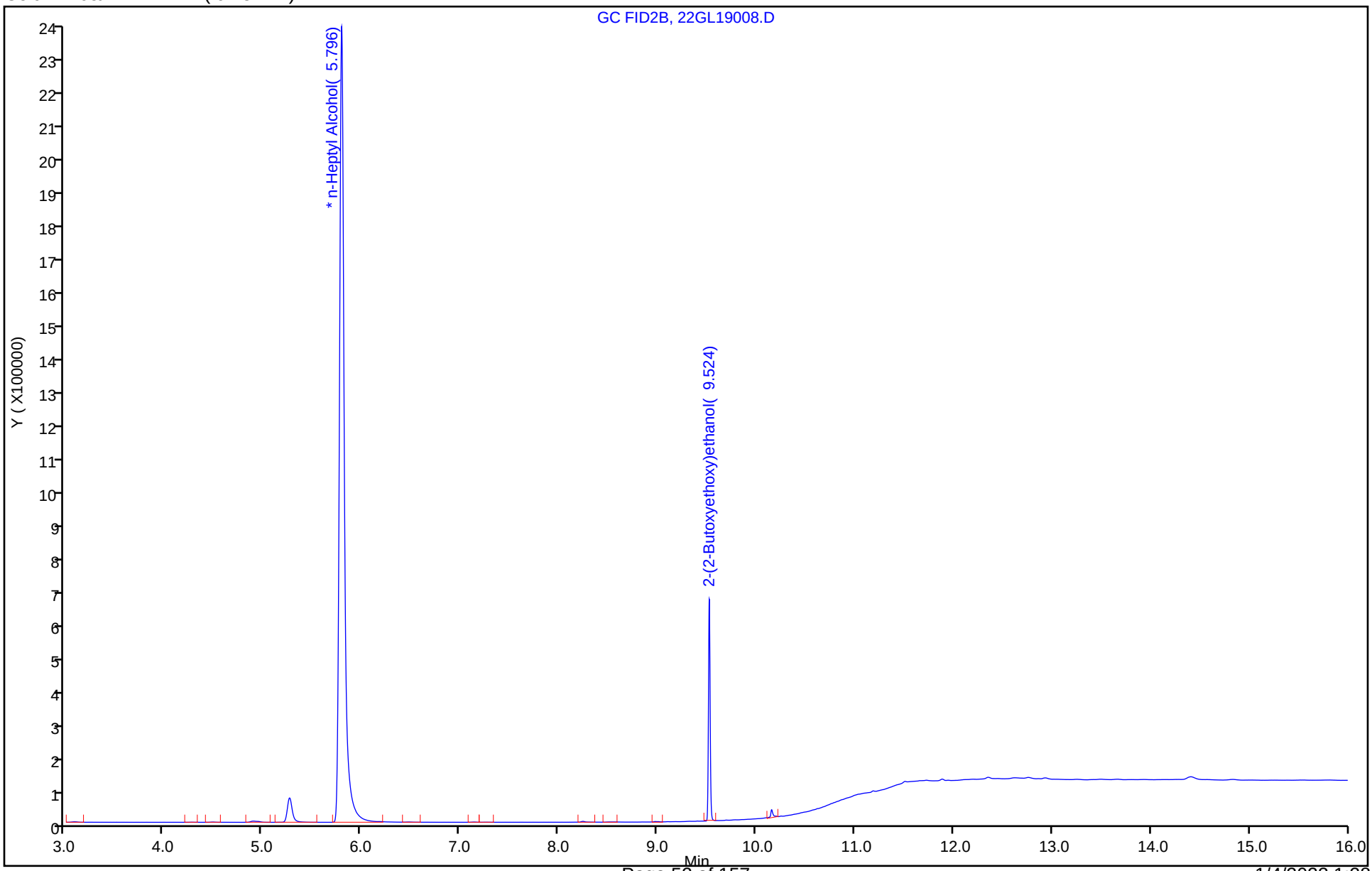
Report Date: 20-Dec-2022 10:50:05 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221219-82846.b\22GL19008.D

Injection Date:	19-Dec-2022 14:53:04	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	580-121097-B-7-A	Lab Sample ID:	680-121097-7	Worklist Smp#:	8
Client ID:	ADIT6-DU03-SON02MI-22DEC				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	8
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)



1/4/2023 1:28 PM

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

Lab Name: Eurofins Savannah Job No.: 580-121097-1 Analy Batch No.: 755296

SDG No.:

Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2022 13:40 Calibration End Date: 12/15/2022 15:34 Calibration ID: 88697

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-755296/12	22GL15012.D
Level 2	IC 680-755296/11	22GL15011.D
Level 3	ICIS 680-755296/10	22GL15010.D
Level 4	IC 680-755296/9	22GL15009.D
Level 5	IC 680-755296/8	22GL15008.D
Level 6	IC 680-755296/7	22GL15007.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 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethanol, 2-propoxy	0.5816 0.4737	0.5568	0.5171	0.4615	0.5207	Ave		0.5186				8.9		20.0			
4-Hydroxy-4-methyl-2-pentanone	0.6069 0.4985	0.5826	0.5431	0.4794	0.5476	Ave		0.5430				8.9		20.0			
2-Butoxyethanol	0.6374 0.5121	0.6038	0.5557	0.4918	0.5613	Ave		0.5604				9.7		20.0			
Dipropylene Glycol Methyl Ether	0.0431 0.0367	0.0396	0.0435	0.0351	0.0416	Ave		0.0399				8.6		20.0			
Propylene glycol	0.3771 +++++	0.3055	0.3662	0.3077	0.3466	Ave		0.3406				9.7		20.0			
Ethylene glycol	0.3909 +++++	0.3167	0.3413	0.2928	0.3158	Ave		0.3315				11.3		20.0			
2-(2-Butoxyethoxy)ethanol	0.5666 0.4465	0.5278	0.4873	0.4391	0.5106	Ave		0.4963				9.9		20.0			
2,2'-Oxybisethanol	0.3586 0.2979	0.3343	0.3201	0.2784	0.3203	Ave		0.3183				8.8		20.0			
Triethylene Glycol	0.4069 0.2998	0.3723	0.3329	0.2783	0.3204	Lin2	0.5931	0.2963							0.9940		0.9900
Tetraethylene Glycol	0.3889 0.3018	0.3481	0.3168	0.2619	0.3191	Lin2	1.0184	0.2895							0.9920		0.9900

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 SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Savannah Job No.: 580-121097-1 Analy Batch No.: 755296

SDG No.:

Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2022 13:40 Calibration End Date: 12/15/2022 15:34 Calibration ID: 88697

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-755296/12	22GL15012.D
Level 2	IC 680-755296/11	22GL15011.D
Level 3	ICIS 680-755296/10	22GL15010.D
Level 4	IC 680-755296/9	22GL15009.D
Level 5	IC 680-755296/8	22GL15008.D
Level 6	IC 680-755296/7	22GL15007.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Ethanol, 2-propoxy	nHPA	Ave	416727 7053688	791260	1332867	2587988	6285698	5.00 100	10.0	20.0	50.0	80.0
4-Hydroxy-4-methyl-2-pentanone	nHPA	Ave	434849 7423255	827949	1399741	2688287	6609451	5.00 100	10.0	20.0	50.0	80.0
2-Butoxyethanol	nHPA	Ave	456743 7626714	858121	1432260	2757997	6774865	5.00 100	10.0	20.0	50.0	80.0
Dipropylene Glycol Methyl Ether	nHPA	Ave	30872 546715	56303	112172	196877	502049	5.00 100	10.0	20.0	50.0	80.0
Propylene glycol	nHPA	Ave	270235 +++++	434131	943990	1725397	4183063	5.00 +++++	10.0	20.0	50.0	80.0
Ethylene glycol	nHPA	Ave	280066 +++++	450038	879839	1642095	3811895	5.00 +++++	10.0	20.0	50.0	80.0
2-(2-Butoxyethoxy)ethanol	nHPA	Ave	405977 6649122	750029	1256158	2462169	6163303	5.00 100	10.0	20.0	50.0	80.0
2,2'-Oxybisethanol	nHPA	Ave	256938 4436367	475084	824970	1561212	3866081	5.00 100	10.0	20.0	50.0	80.0
Triethylene Glycol	nHPA	Lin2	291568 4464024	529150	858022	1560681	3867921	5.00 100	10.0	20.0	50.0	80.0
Tetraethylene Glycol	nHPA	Lin2	557362 8988059	989281	1633146	2937100	7703370	10.0 200	20.0	40.0	100	160

Curve Type Legend

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

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

Lab Name: Eurofins Savannah Job No.: 580-121097-1 Analy Batch No.: 755296

SDG No.:

Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2022 13:40 Calibration End Date: 12/15/2022 15:34 Calibration ID: 88697

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-755296/12	22GL15012.D
Level 2	IC 680-755296/11	22GL15011.D
Level 3	ICIS 680-755296/10	22GL15010.D
Level 4	IC 680-755296/9	22GL15009.D
Level 5	IC 680-755296/8	22GL15008.D
Level 6	IC 680-755296/7	22GL15007.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
Ethanol, 2-propoxy	12.2	7.4	-0.3	-11.0	0.4	-8.7	20	20	20	20	20	20
4-Hydroxy-4-methyl-2-pentanone	11.8	7.3	0.0	-11.7	0.8	-8.2	20	20	20	20	20	20
2-Butoxyethanol	13.8	7.8	-0.8	-12.2	0.2	-8.6	20	20	20	20	20	20
Dipropylene Glycol Methyl Ether	7.9	-0.8	9.0	-12.1	4.1	-8.1	20	20	20	20	20	20
Propylene glycol	10.7	-10.3	7.5	-9.7	1.7	+++++	20	20	20	20	20	
Ethylene glycol	17.9	-4.5	3.0	-11.7	-4.7	+++++	20	20	20	20	20	
2-(2-Butoxyethoxy)ethanol	14.2	6.3	-1.8	-11.5	2.9	-10.0	20	20	20	20	20	20
2,2'-Oxybisethanol	12.7	5.0	0.6	-12.5	0.6	-6.4	20	20	20	20	20	20
Triethylene Glycol	-2.7	5.6	2.3	-10.1	5.6	-0.8	20	20	20	20	20	20
Tetraethylene Glycol	-0.8	2.7	0.7	-13.0	8.0	2.5	20	20	20	20	20	20

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15007.D
Lims ID: ic g6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 15-Dec-2022 13:40:52 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0082752-007
Operator ID: Instrument ID: CVGG2
Sublist: chrom-8015_GLY_VGG*sub2

Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 15-Dec-2022 18:35:03 Calib Date: 15-Dec-2022 15:34:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host: CTX1659

First Level Reviewer: SK9U Date: 15-Dec-2022 17:24:57

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 Ethanol, 2-propoxy						
	3.984	3.983	0.001	7053688	100.0	91.3	
	2 4-Hydroxy-4-methyl-2-pentanone						
	4.806	4.806	0.000	7423255	100.0	91.8	
	3 2-Butoxyethanol						
	5.175	5.175	0.000	7626714	100.0	91.4	
*	4 n-Heptyl Alcohol						
	5.708	5.708	0.000	7445839	50.0	50.0	
	5 Dipropylene Glycol Methyl Ether						
	6.827	6.831	-0.004	546715	100.0	91.9	
	6 Propylene glycol						M
	7.822	7.827	-0.005	3624516	100.0	71.5	M
	7 Ethylene glycol						M
	8.217	8.218	-0.001	3043727	100.0	61.7	M
	8 2-(2-Butoxyethoxy)ethanol						
	9.493	9.491	0.002	6649122	100.0	90.0	
	9 2,2'-Oxybisethanol						
	10.178	10.176	0.002	4436367	100.0	93.6	
	10 Triethylene Glycol						M
	11.159	11.159	0.000	4464024	100.0	99.2	M
	11 Tetraethylene Glycol						
	12.824	12.821	0.003	8988059	200.0	205.0	

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00047	Amount Added:	50.00	Units: uL	
SG_GLY_ISTD_00099	Amount Added:	10.00	Units: uL	Run Reagent

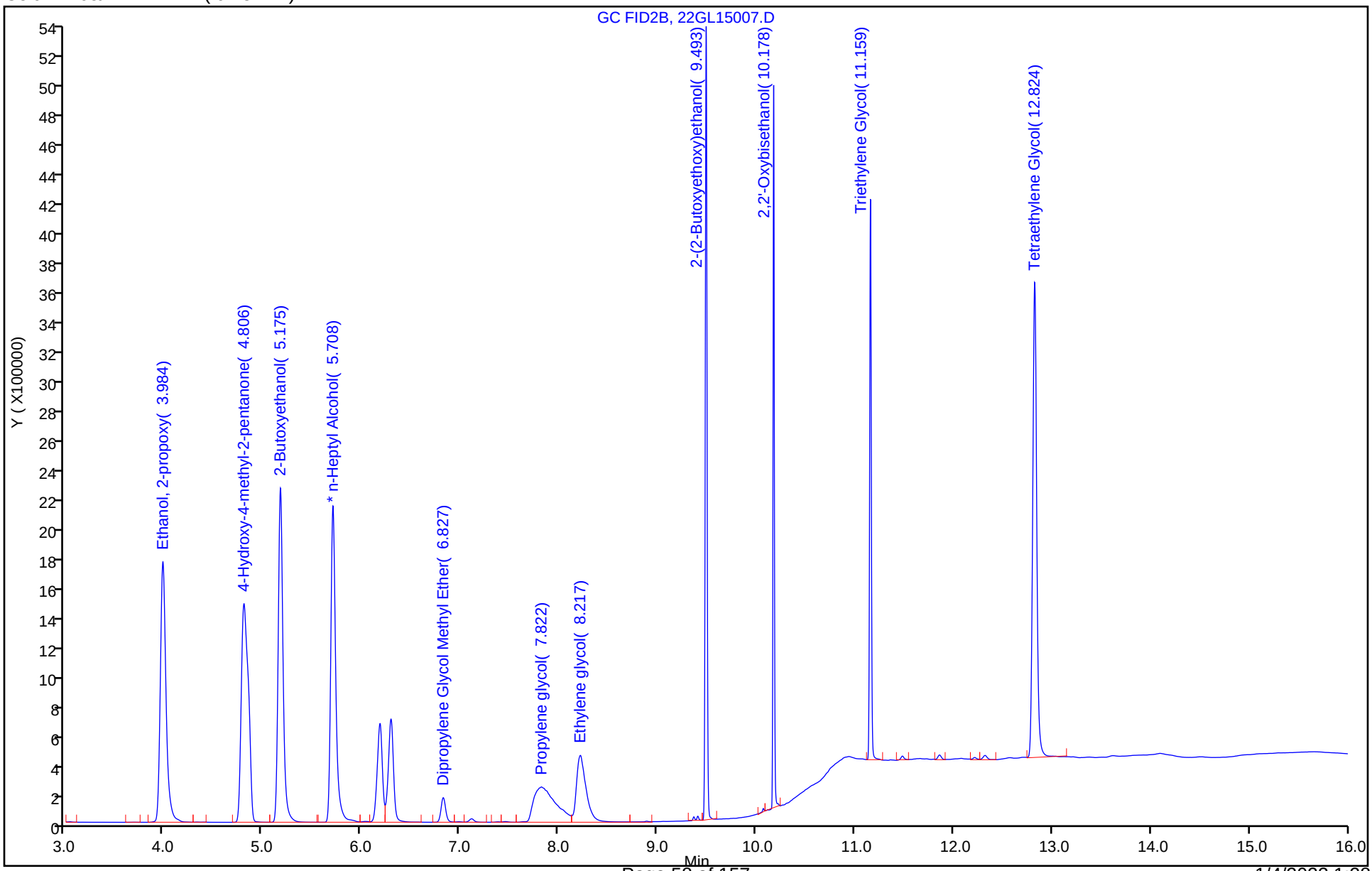
Report Date: 15-Dec-2022 18:35:03 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15007.D

Injection Date:	15-Dec-2022 13:40:52	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	ic g6			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)



Manual Integration/User Assign Peak Report

Eurofins Savannah

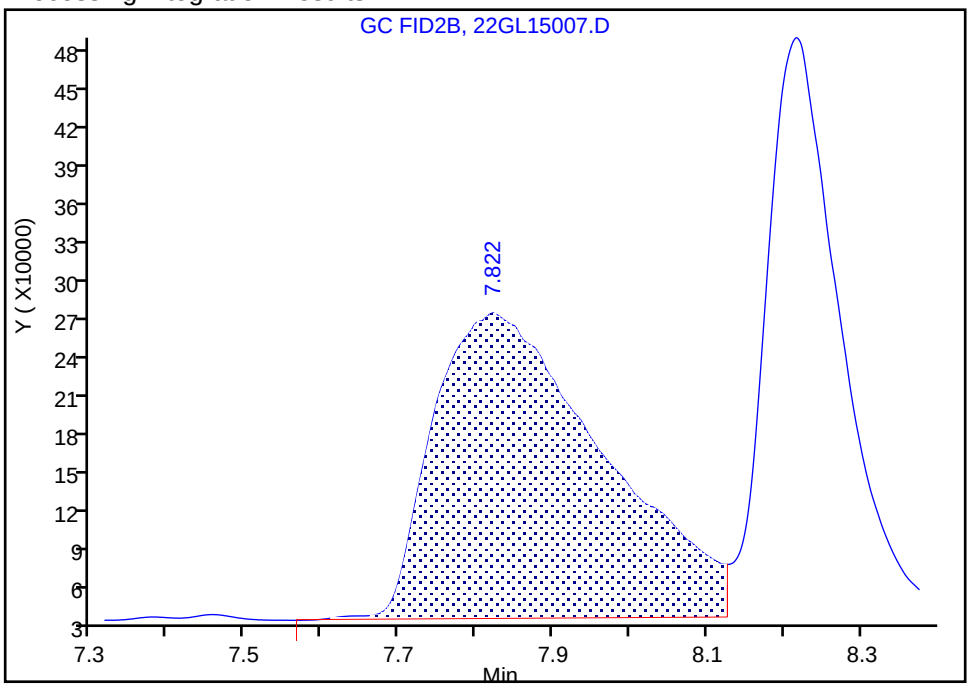
Data File:	\\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15007.D				
Injection Date:	15-Dec-2022 13:40:52	Instrument ID:	CVGG2		
Lims ID:	ic g6				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		
Column:	J&W DB WAX (0.45 mm)	Detector	GC FID2B		

6 Propylene glycol, CAS: 57-55-6

Signal: 1

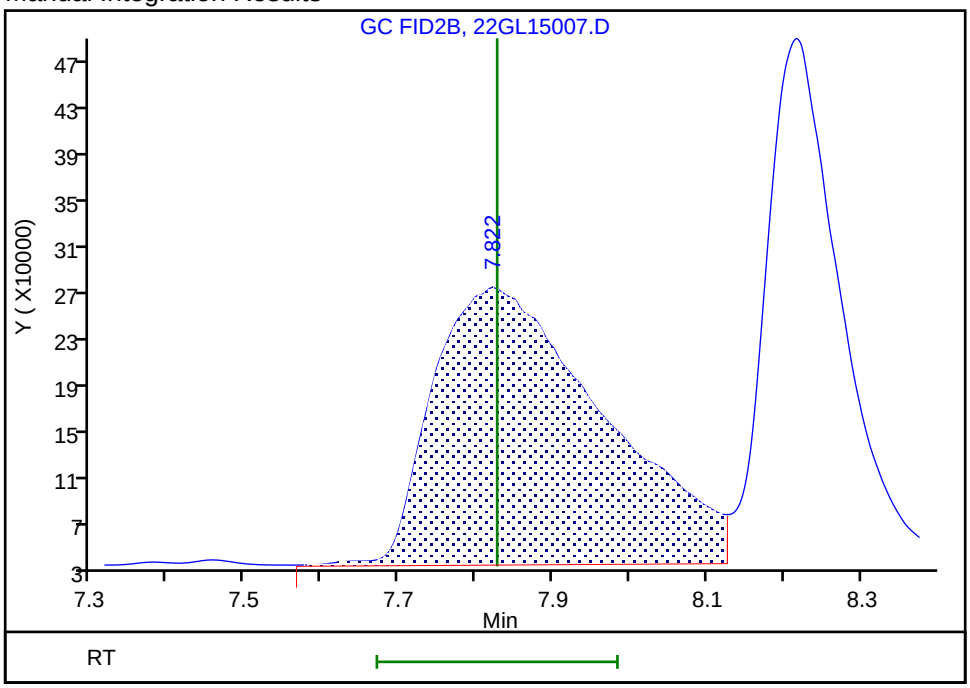
Processing Integration Results

RT: 7.82
Area: 3607792
Amount: 74.721268
Amount Units: ug/ml



Manual Integration Results

RT: 7.82
Area: 3624516
Amount: 71.455054
Amount Units: ug/ml



Reviewer: SWK1, 15-Dec-2022 18:33:27
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Savannah

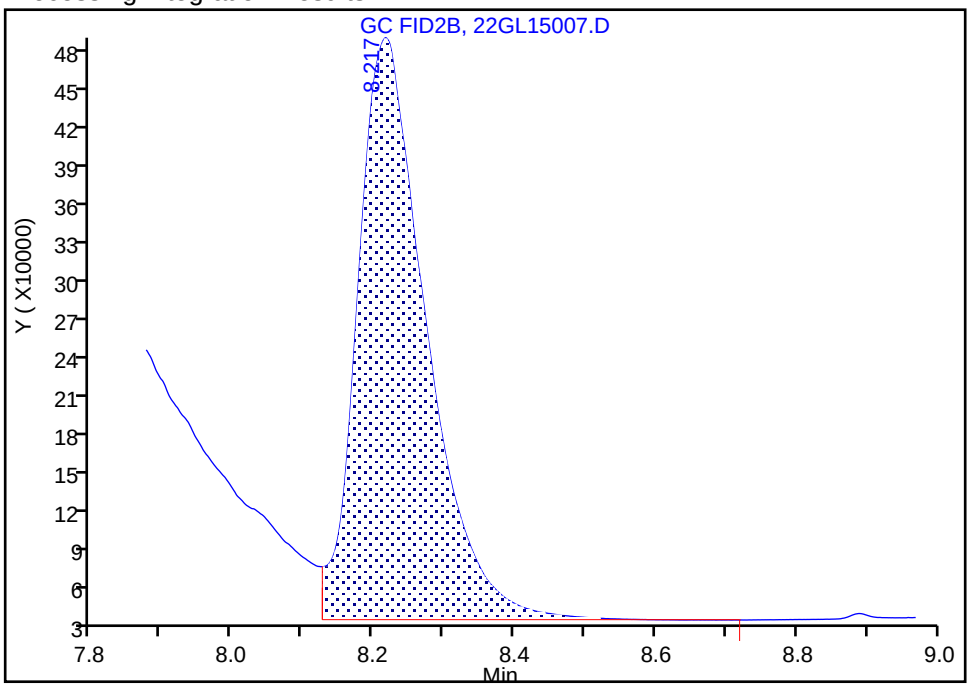
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15007.D
Injection Date: 15-Dec-2022 13:40:52 Instrument ID: CVGG2
Lims ID: ic g6
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

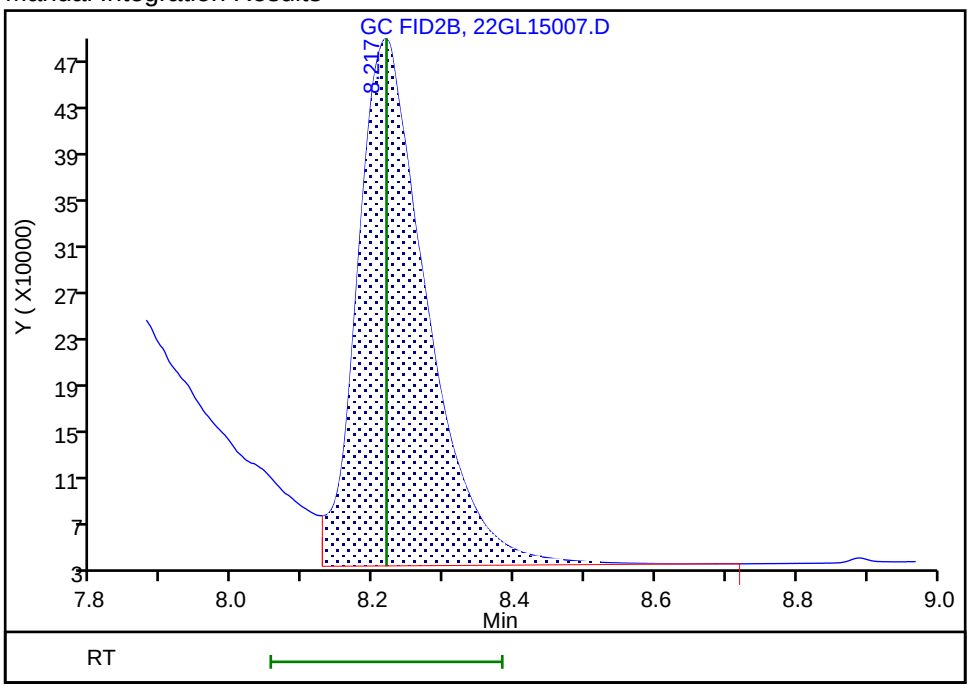
Processing Integration Results

RT: 8.22
Area: 3026716
Amount: 65.536617
Amount Units: ug/ml



Manual Integration Results

RT: 8.22
Area: 3043727
Amount: 61.655254
Amount Units: ug/ml



Reviewer: SWK1, 15-Dec-2022 18:33:27
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Savannah

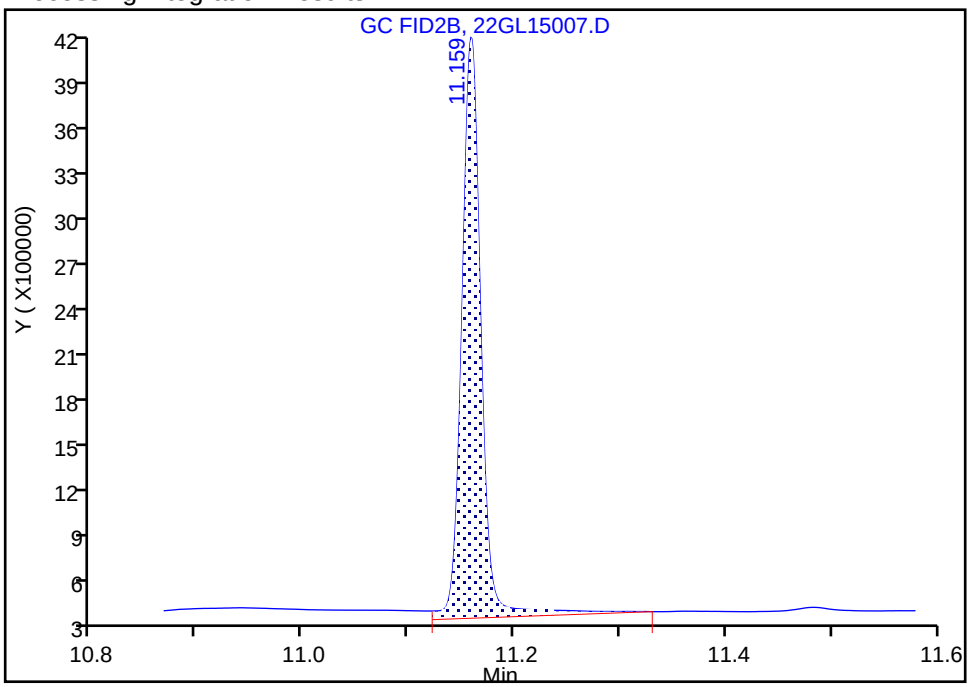
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15007.D
Injection Date: 15-Dec-2022 13:40:52 Instrument ID: CVGG2
Lims ID: ic g6
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

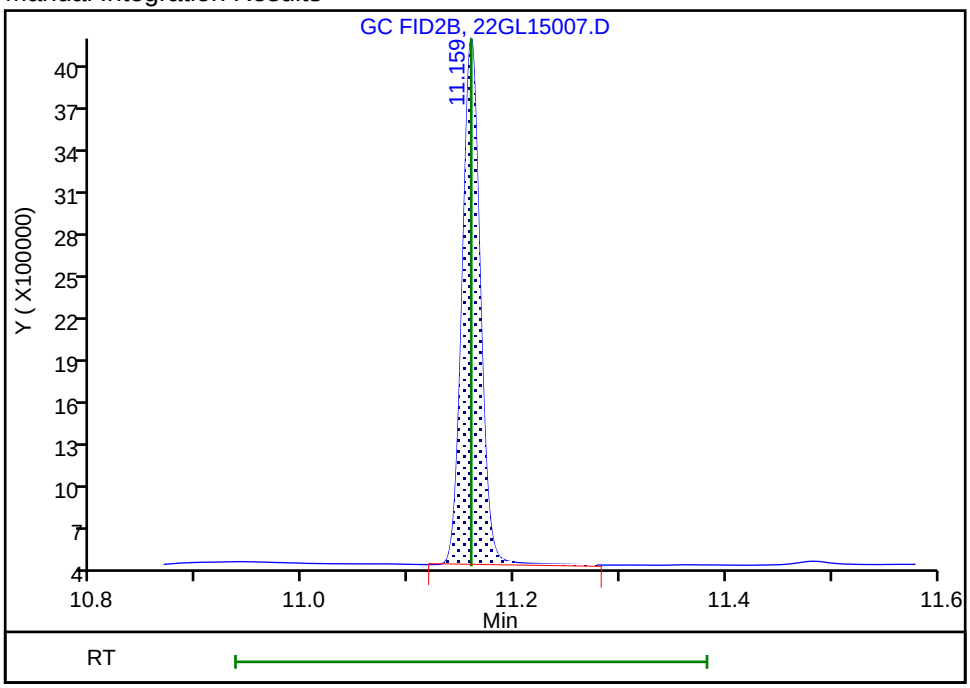
Processing Integration Results

RT: 11.16
Area: 4844633
Amount: 101.9642
Amount Units: ug/ml



Manual Integration Results

RT: 11.16
Area: 4464024
Amount: 99.163918
Amount Units: ug/ml



Reviewer: SWK1, 15-Dec-2022 18:27:49
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15008.D
Lims ID: ic g5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 15-Dec-2022 14:03:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0082752-008
Operator ID: Instrument ID: CVGG2
Sublist: chrom-8015_GLY_VGG*sub2

Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 15-Dec-2022 18:35:03 Calib Date: 15-Dec-2022 15:34:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host: CTX1659

First Level Reviewer: SWK1 Date: 15-Dec-2022 18:28:03

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 Ethanol, 2-propoxy						
	3.981	3.983	-0.002	6285698	80.0	80.3	
	2 4-Hydroxy-4-methyl-2-pentanone						
	4.806	4.806	0.000	6609451	80.0	80.7	
	3 2-Butoxyethanol						
	5.176	5.175	0.001	6774865	80.0	80.1	
*	4 n-Heptyl Alcohol						
	5.710	5.708	0.002	7544066	50.0	50.0	
	5 Dipropylene Glycol Methyl Ether						
	6.831	6.831	0.000	502049	80.0	83.3	
	6 Propylene glycol						
	7.826	7.827	-0.001	4183063	80.0	81.4	
	7 Ethylene glycol						
	8.218	8.218	0.000	3811895	80.0	76.2	
	8 2-(2-Butoxyethoxy)ethanol						
	9.493	9.491	0.002	6163303	80.0	82.3	
	9 2,2'-Oxybisethanol						
	10.178	10.176	0.002	3866081	80.0	80.5	
	10 Triethylene Glycol						M
	11.159	11.159	0.000	3867921	80.0	84.5	M
	11 Tetraethylene Glycol						
	12.822	12.821	0.001	7703370	160.0	172.9	

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00047	Amount Added:	40.00	Units: uL	
SG_GLY_ISTD_00099	Amount Added:	10.00	Units: uL	Run Reagent

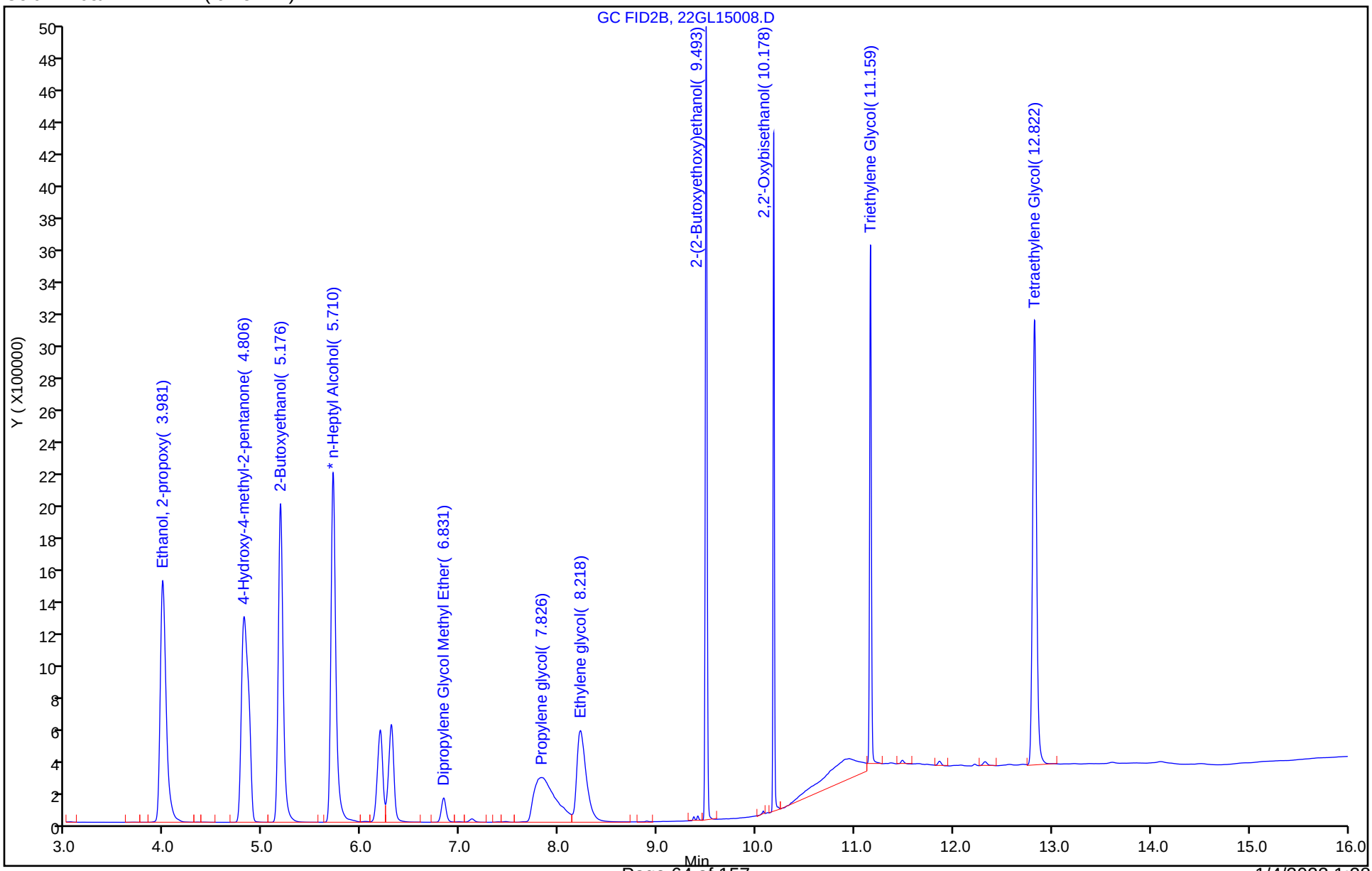
Report Date: 15-Dec-2022 18:35:03 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15008.D

Injection Date:	15-Dec-2022 14:03:30	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	ic g5			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

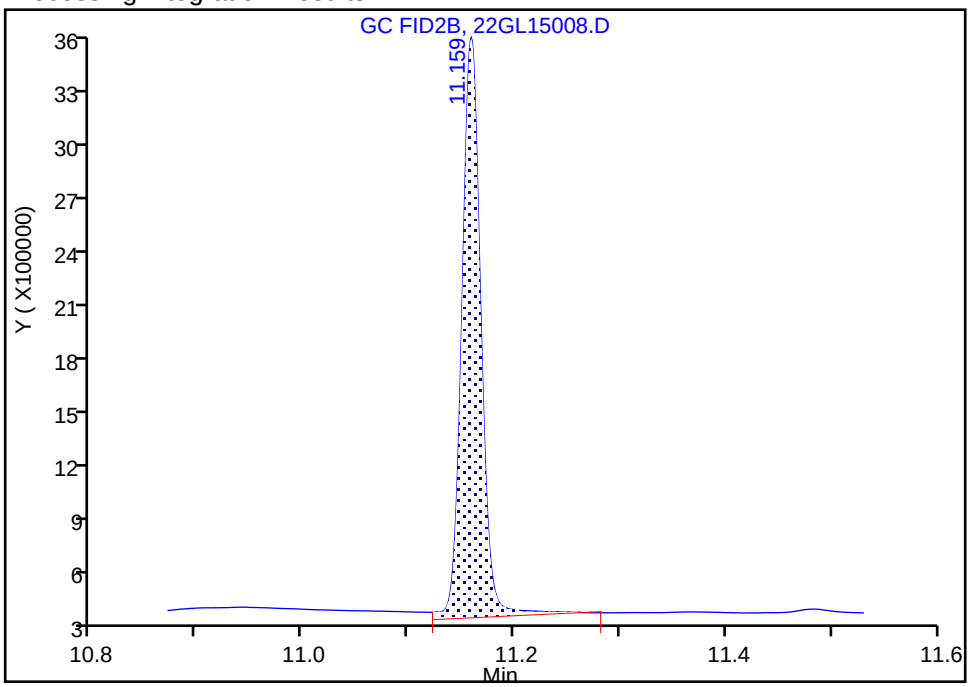
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15008.D
Injection Date: 15-Dec-2022 14:03:30 Instrument ID: CVGG2
Lims ID: ic g5
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

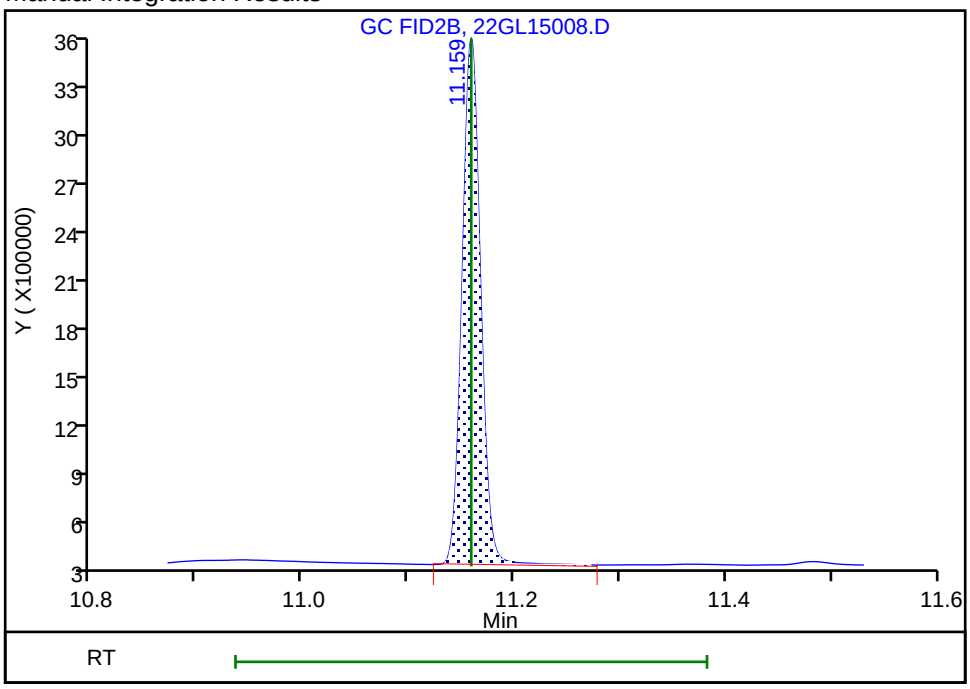
Processing Integration Results

RT: 11.16
Area: 4076952
Amount: 85.617419
Amount Units: ug/ml



Manual Integration Results

RT: 11.16
Area: 3867921
Amount: 84.513452
Amount Units: ug/ml



Reviewer: SWK1, 15-Dec-2022 18:28:02
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15009.D
Lims ID: ic g4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 15-Dec-2022 14:26:10 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0082752-009
Operator ID: Instrument ID: CVGG2
Sublist: chrom-8015_GLY_VGG*sub2

Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 15-Dec-2022 18:35:04 Calib Date: 15-Dec-2022 15:34:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host: CTX1659

First Level Reviewer: SWK1 Date: 15-Dec-2022 18:28:15

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 Ethanol, 2-propoxy						
	3.981	3.981	0.000	2587988	50.0	44.5	
	2 4-Hydroxy-4-methyl-2-pentanone						
	4.806	4.806	0.000	2688287	50.0	44.1	
	3 2-Butoxyethanol						
	5.175	5.175	0.000	2757997	50.0	43.9	
*	4 n-Heptyl Alcohol						
	5.709	5.709	0.000	5607434	50.0	50.0	
	5 Dipropylene Glycol Methyl Ether						
	6.829	6.829	0.000	196877	50.0	44.0	
	6 Propylene glycol						
	7.829	7.829	0.000	1725397	50.0	45.2	
	7 Ethylene glycol						
	8.218	8.218	0.000	1642095	50.0	44.2	
	8 2-(2-Butoxyethoxy)ethanol						
	9.492	9.492	0.000	2462169	50.0	44.2	
	9 2,2'-Oxybisethanol						
	10.177	10.177	0.000	1561212	50.0	43.7	
	10 Triethylene Glycol						M
	11.159	11.159	0.000	1560681	50.0	45.0	M
	11 Tetraethylene Glycol						
	12.823	12.823	0.000	2937100	100.0	87.0	

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00047	Amount Added:	25.00	Units: uL	
SG_GLY_ISTD_00099	Amount Added:	10.00	Units: uL	Run Reagent

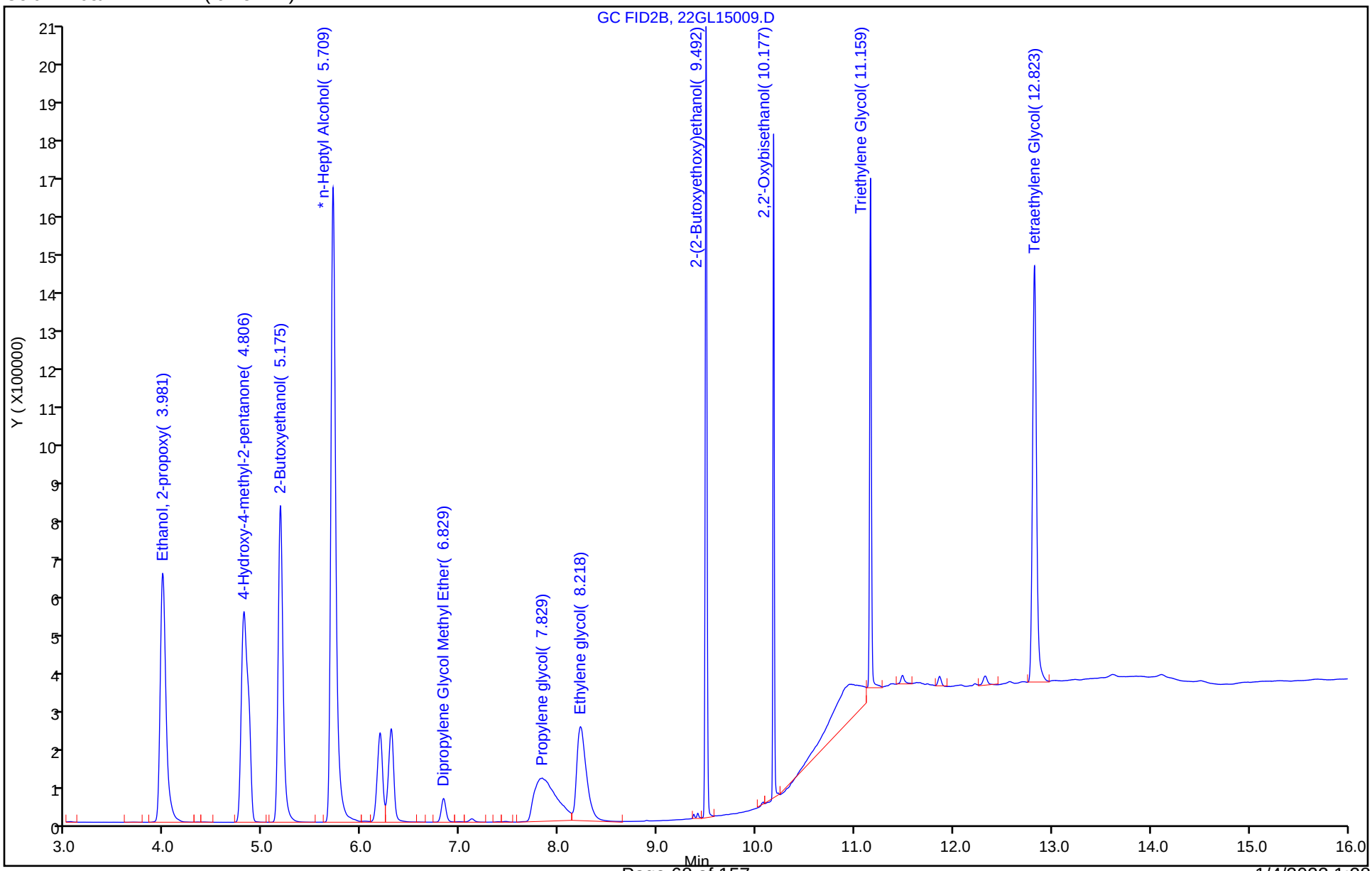
Report Date: 15-Dec-2022 18:35:04 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15009.D

Injection Date:	15-Dec-2022 14:26:10	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	ic g4			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)



Manual Integration/User Assign Peak Report

Eurofins Savannah

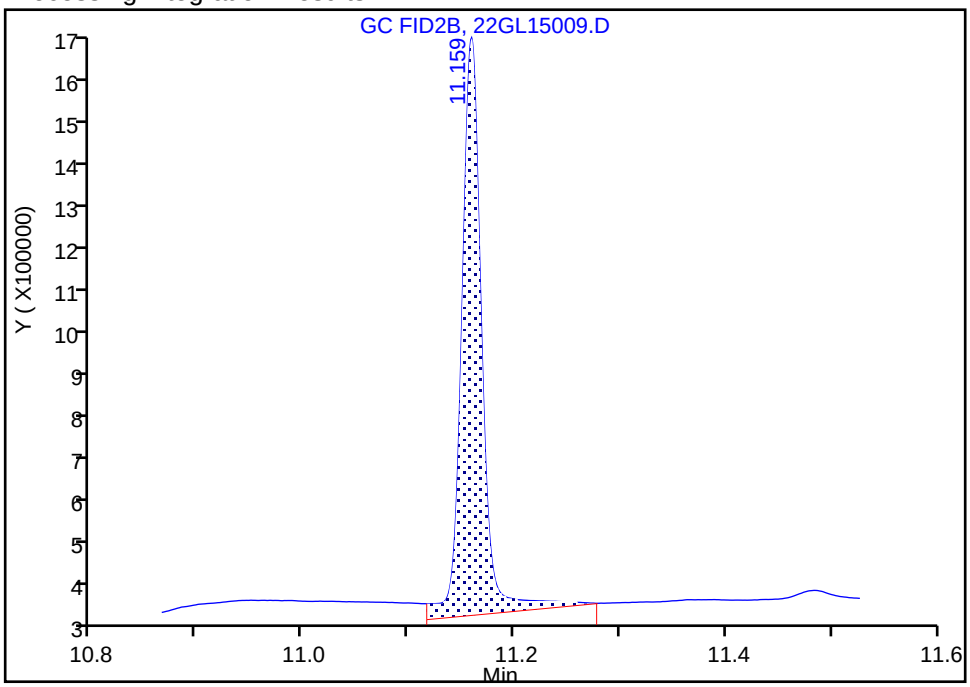
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15009.D
Injection Date: 15-Dec-2022 14:26:10 Instrument ID: CVGG2
Lims ID: ic g4
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

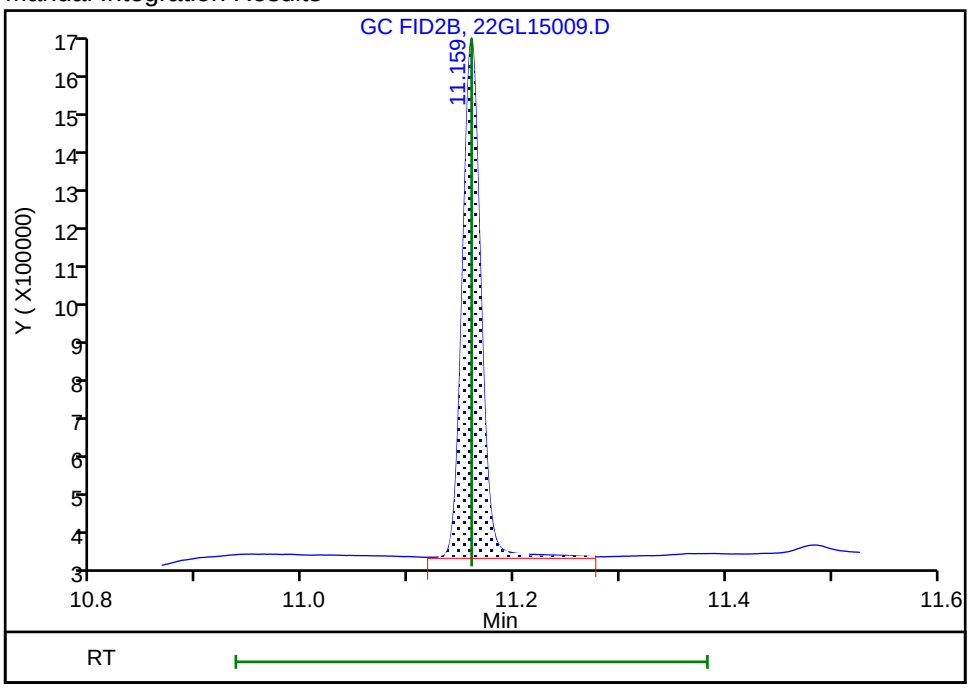
Processing Integration Results

RT: 11.16
Area: 1737472
Amount: 46.932084
Amount Units: ug/ml



Manual Integration Results

RT: 11.16
Area: 1560681
Amount: 44.962836
Amount Units: ug/ml



Reviewer: SWK1, 15-Dec-2022 18:28:13
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15010.D
Lims ID: icis g3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 15-Dec-2022 14:48:56 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0082752-010
Operator ID: Instrument ID: CVGG2
Sublist: chrom-8015_GLY_VGG*sub2

Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 15-Dec-2022 18:35:05 Calib Date: 15-Dec-2022 15:34:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host: CTX1659

First Level Reviewer: SWK1 Date: 15-Dec-2022 18:28:35

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 Ethanol, 2-propoxy						
	3.983	3.983	0.000	1332867	20.0	19.9	
	2 4-Hydroxy-4-methyl-2-pentanone						
	4.806	4.806	0.000	1399741	20.0	20.0	
	3 2-Butoxyethanol						
	5.175	5.175	0.000	1432260	20.0	19.8	
*	4 n-Heptyl Alcohol						
	5.708	5.708	0.000	6443842	50.0	50.0	
	5 Dipropylene Glycol Methyl Ether						
	6.831	6.831	0.000	112172	20.0	21.8	
	6 Propylene glycol						M
	7.827	7.827	0.000	943990	20.0	21.5	M
	7 Ethylene glycol						M
	8.218	8.218	0.000	879839	20.0	20.6	M
	8 2-(2-Butoxyethoxy)ethanol						M
	9.491	9.491	0.000	1256158	20.0	19.6	M
	9 2,2'-Oxybisethanol						
	10.176	10.176	0.000	824970	20.0	20.1	
	10 Triethylene Glycol						M
	11.159	11.159	0.000	858022	20.0	20.5	M
	11 Tetraethylene Glycol						
	12.821	12.821	0.000	1633146	40.0	40.3	

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00047	Amount Added:	10.00	Units: uL	
SG_GLY_ISTD_00099	Amount Added:	10.00	Units: uL	Run Reagent

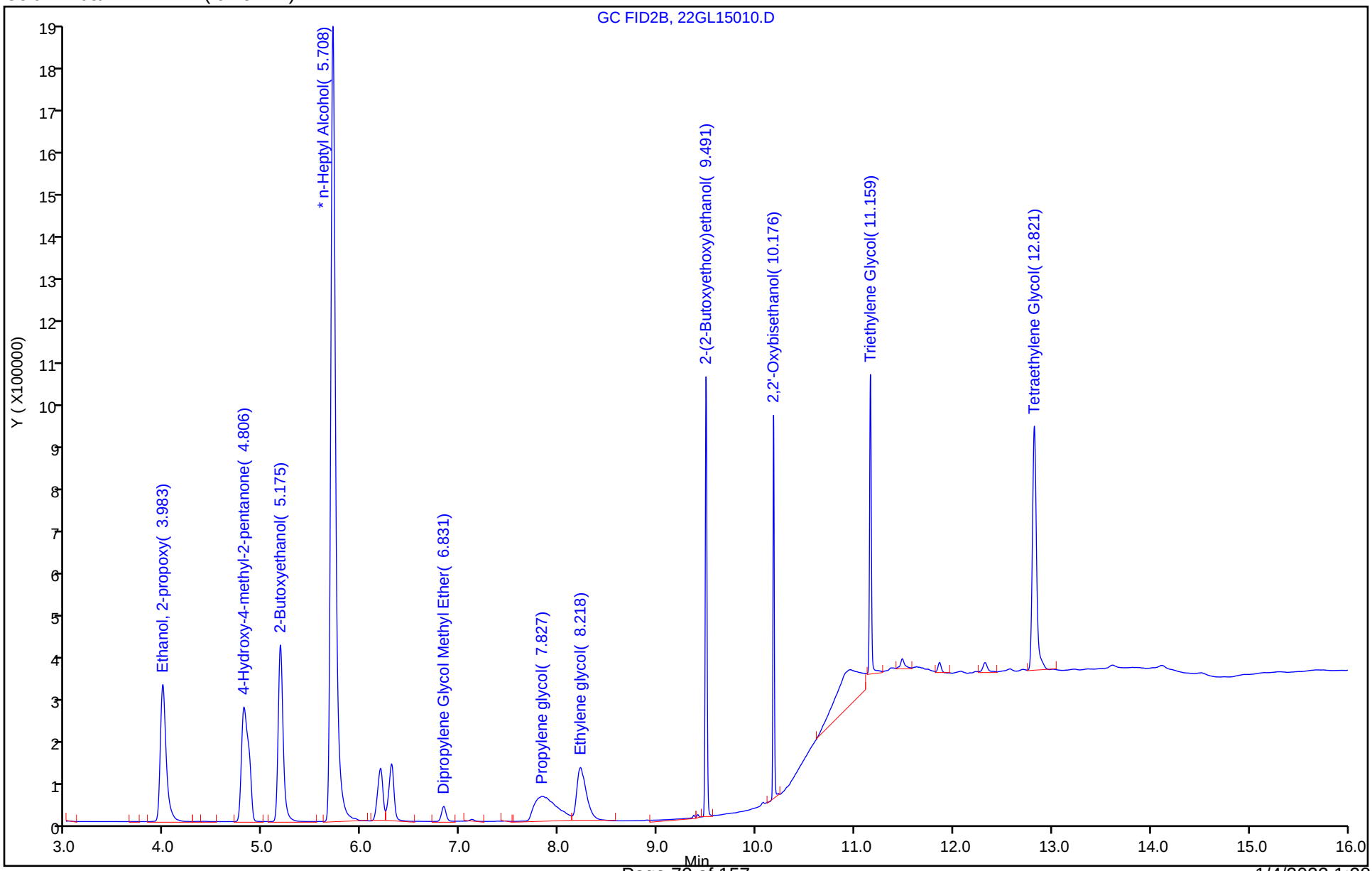
Report Date: 15-Dec-2022 18:35:05 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15010.D

Injection Date:	15-Dec-2022 14:48:56	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	icis g3			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

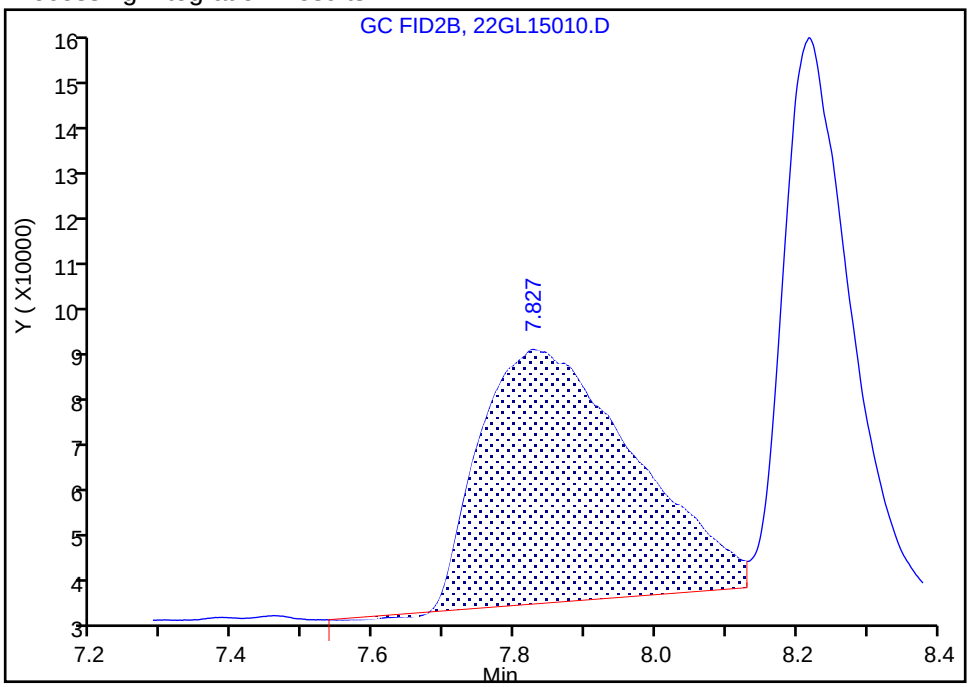
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15010.D
Injection Date: 15-Dec-2022 14:48:56 Instrument ID: CVGG2
Lims ID: icis g3
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

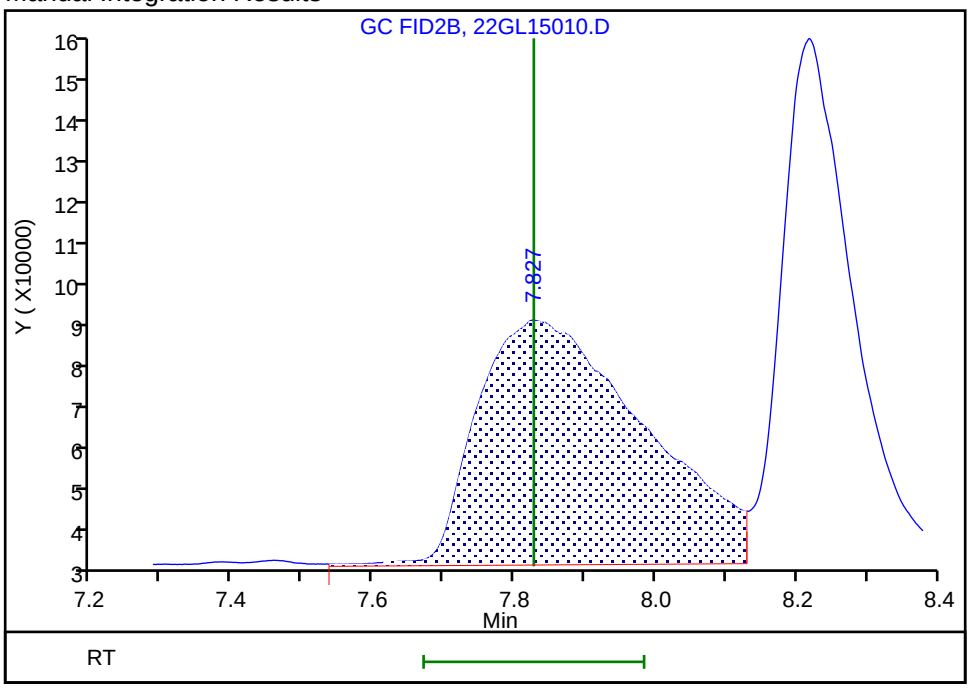
Processing Integration Results

RT: 7.83
Area: 829696
Amount: 20.319088
Amount Units: ug/ml



Manual Integration Results

RT: 7.83
Area: 943990
Amount: 21.503992
Amount Units: ug/ml



Reviewer: SWK1, 15-Dec-2022 18:31:33
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Savannah

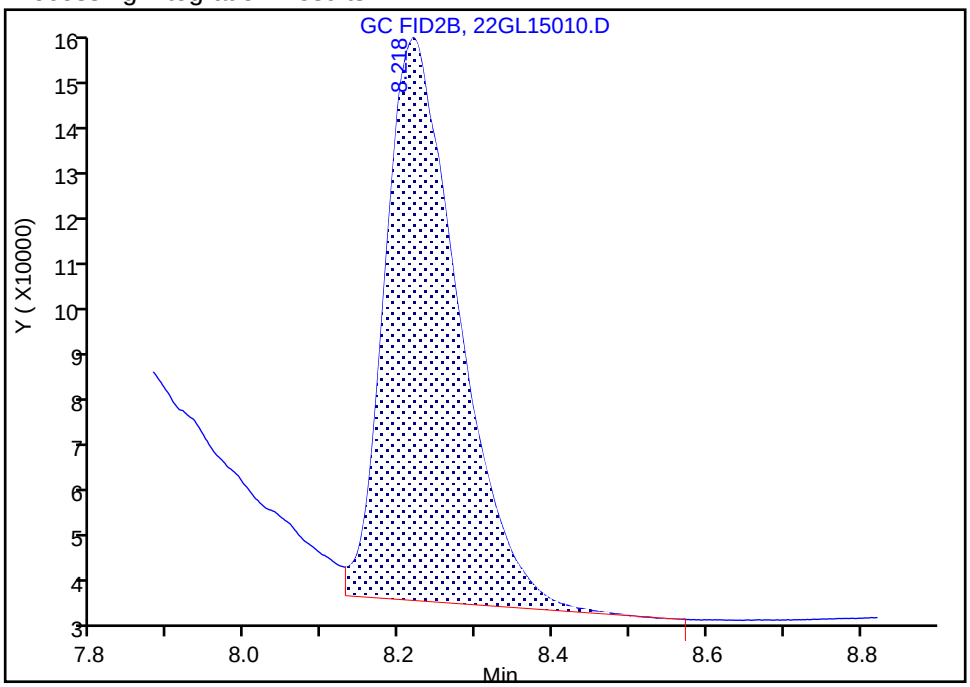
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15010.D
Injection Date: 15-Dec-2022 14:48:56 Instrument ID: CVGG2
Lims ID: icis g3
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

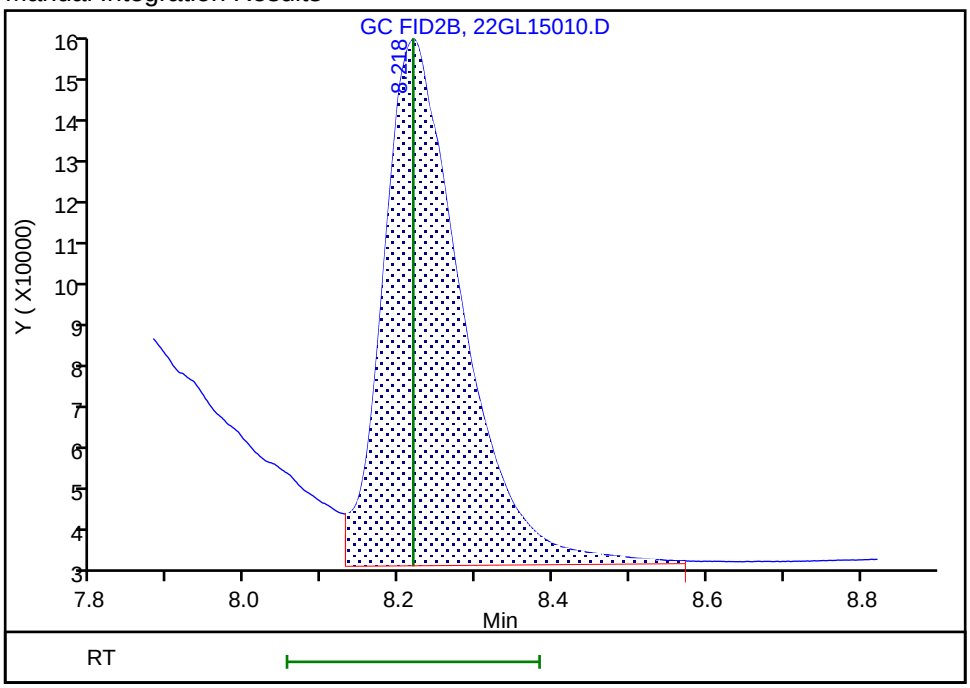
Processing Integration Results

RT: 8.22
Area: 793578
Amount: 20.218674
Amount Units: ug/ml



Manual Integration Results

RT: 8.22
Area: 879839
Amount: 20.593794
Amount Units: ug/ml



Reviewer: SWK1, 15-Dec-2022 18:31:33
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Eurofins Savannah

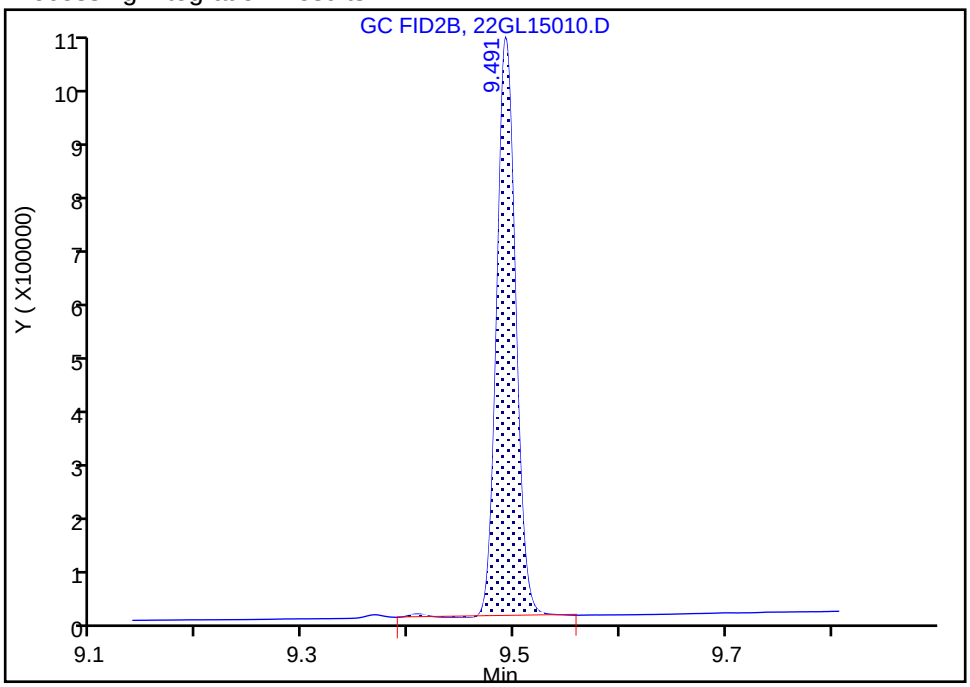
Data File:	\\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15010.D				
Injection Date:	15-Dec-2022 14:48:56	Instrument ID:	CVGG2		
Lims ID:	icis g3				
Client ID:					
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		
Column:	J&W DB WAX (0.45 mm)	Detector	GC FID2B		

8 2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5

Signal: 1

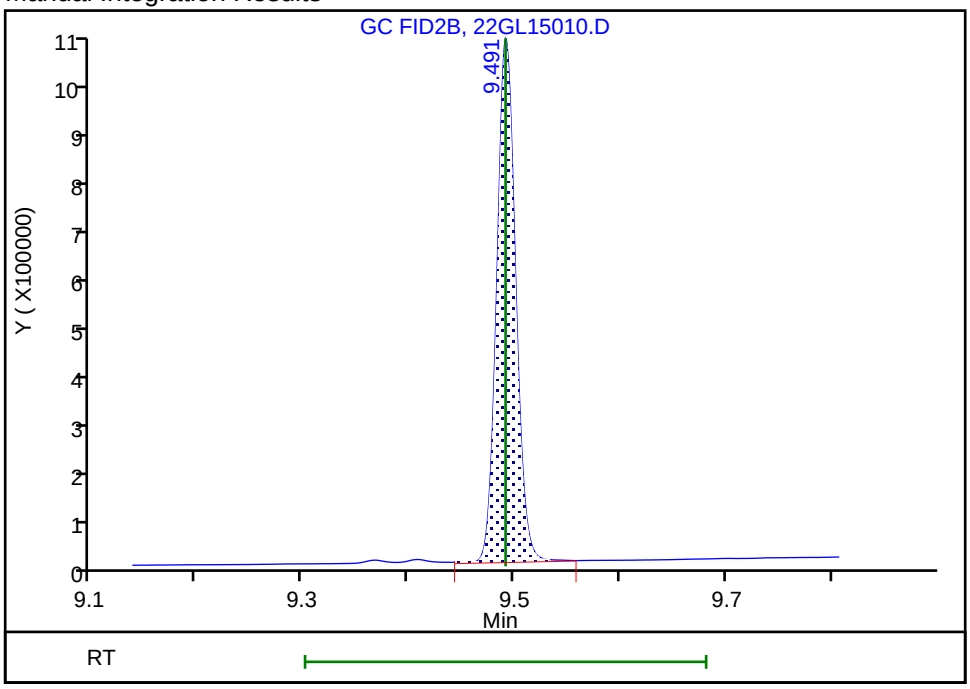
Processing Integration Results

RT: 9.49
Area: 1255008
Amount: 19.623557
Amount Units: ug/ml



Manual Integration Results

RT: 9.49
Area: 1256158
Amount: 19.638596
Amount Units: ug/ml



Reviewer: SWK1, 15-Dec-2022 18:31:41
Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Savannah

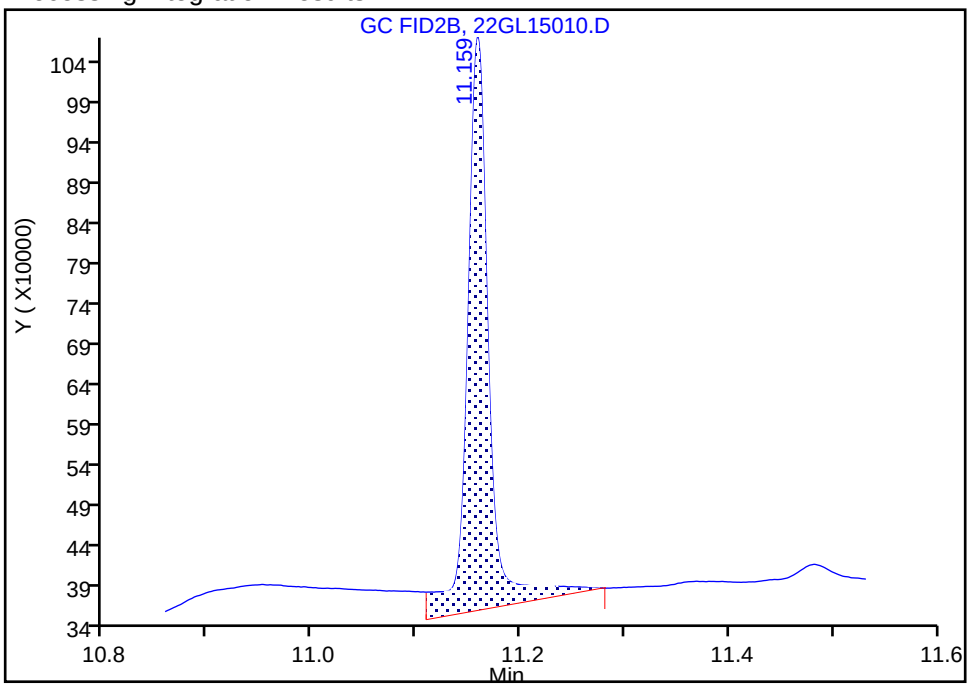
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15010.D
Injection Date: 15-Dec-2022 14:48:56 Instrument ID: CVGG2
Lims ID: icis g3
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

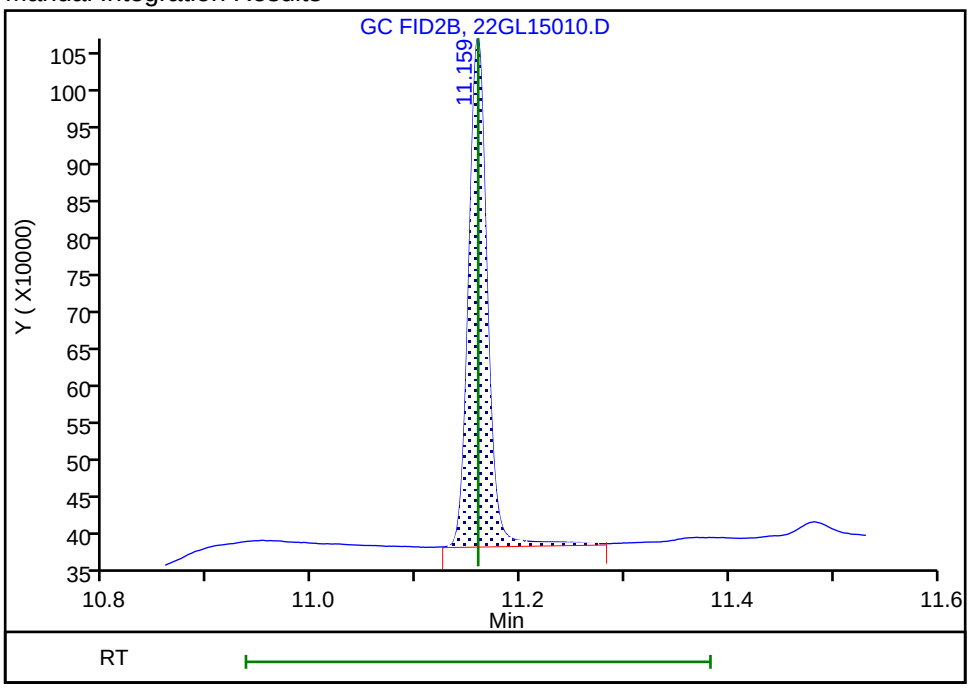
Processing Integration Results

RT: 11.16
Area: 1034865
Amount: 21.453305
Amount Units: ug/ml



Manual Integration Results

RT: 11.16
Area: 858022
Amount: 20.466776
Amount Units: ug/ml



Reviewer: SWK1, 15-Dec-2022 18:28:33
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15011.D
Lims ID: ic g2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 15-Dec-2022 15:11:35 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0082752-011
Operator ID: Instrument ID: CVGG2
Sublist: chrom-8015_GLY_VGG*sub2

Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 15-Dec-2022 18:35:05 Calib Date: 15-Dec-2022 15:34:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host: CTX1659

First Level Reviewer: SWK1 Date: 15-Dec-2022 18:29:00

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 Ethanol, 2-propoxy						
	3.983	3.983	0.000	791260	10.0	10.7	
	2 4-Hydroxy-4-methyl-2-pentanone						
	4.806	4.806	0.000	827949	10.0	10.7	
	3 2-Butoxyethanol						
	5.175	5.175	0.000	858121	10.0	10.8	
*	4 n-Heptyl Alcohol						
	5.708	5.708	0.000	7105611	50.0	50.0	
	5 Dipropylene Glycol Methyl Ether						
	6.830	6.831	-0.001	56303	10.0	9.92	
	6 Propylene glycol						M
	7.837	7.827	0.010	434131	10.0	8.97	M
	7 Ethylene glycol						M
	8.220	8.218	0.002	450038	10.0	9.55	M
	8 2-(2-Butoxyethoxy)ethanol						
	9.492	9.491	0.001	750029	10.0	10.6	
	9 2,2'-Oxybisethanol						
	10.177	10.176	0.001	475084	10.0	10.5	
	10 Triethylene Glycol						M
	11.159	11.159	0.000	529150	10.0	10.6	M
	11 Tetraethylene Glycol						
	12.822	12.821	0.001	989281	20.0	20.5	

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00047	Amount Added:	5.00	Units: uL	
SG_GLY_ISTD_00099	Amount Added:	10.00	Units: uL	Run Reagent

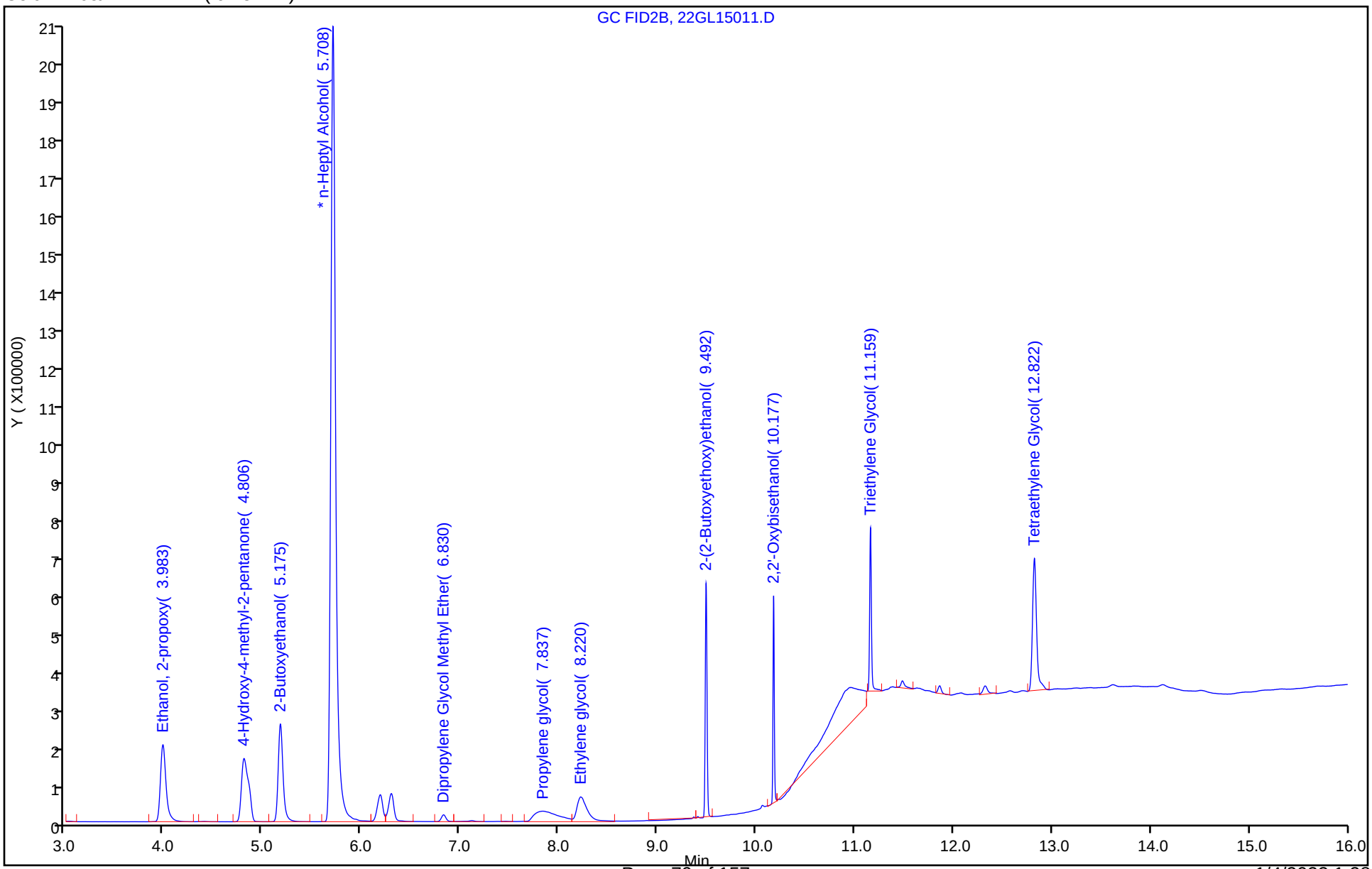
Report Date: 15-Dec-2022 18:35:05 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15011.D

Injection Date:	15-Dec-2022 15:11:35	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	ic g2			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)



Manual Integration/User Assign Peak Report

Eurofins Savannah

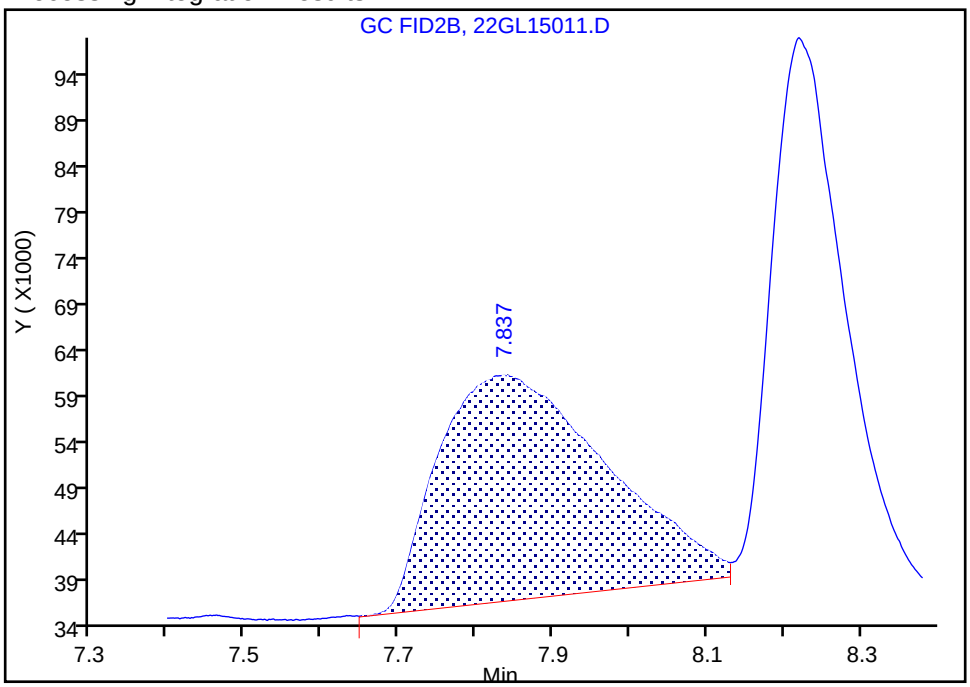
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15011.D
Injection Date: 15-Dec-2022 15:11:35 Instrument ID: CVGG2
Lims ID: ic g2
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

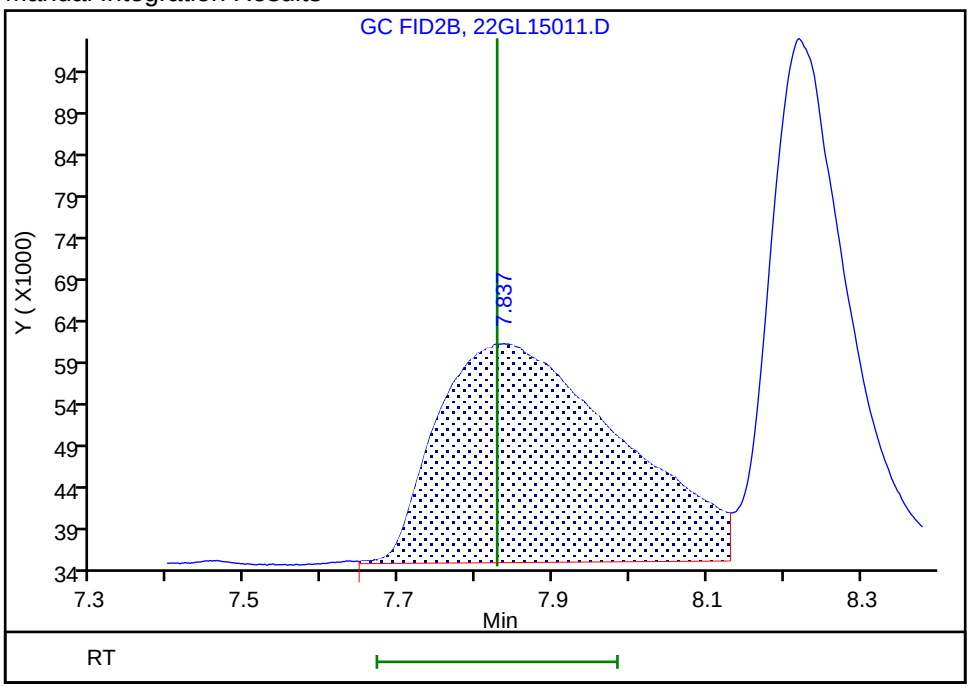
Processing Integration Results

RT: 7.84
Area: 368185
Amount: 8.381609
Amount Units: ug/ml



Manual Integration Results

RT: 7.84
Area: 434131
Amount: 8.968420
Amount Units: ug/ml



Reviewer: SWK1, 15-Dec-2022 18:31:12
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Savannah

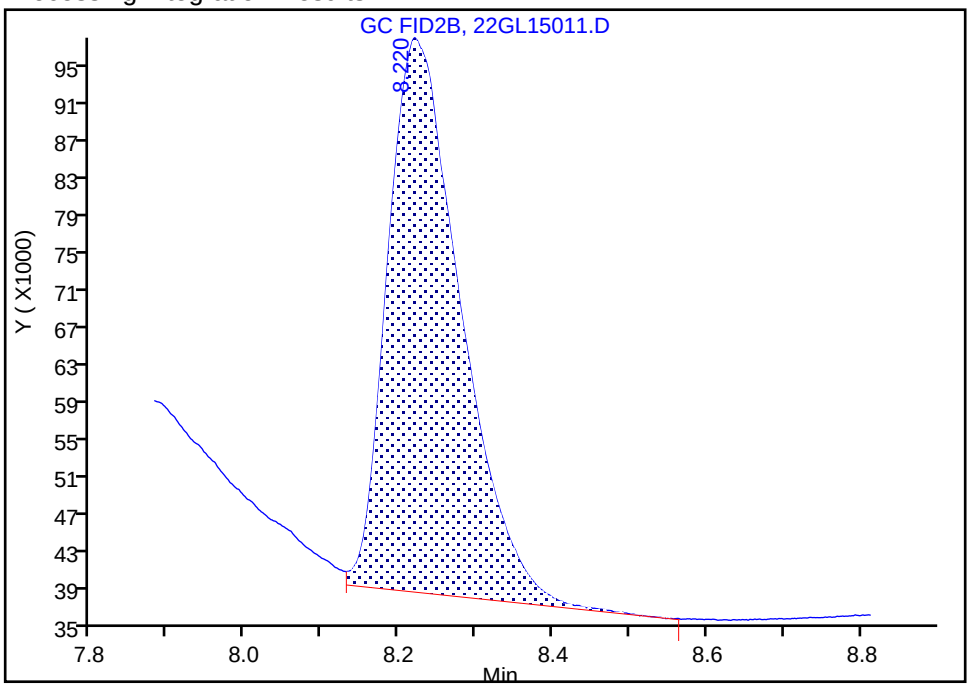
Data File:	\\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15011.D				
Injection Date:	15-Dec-2022 15:11:35	Instrument ID:	CVGG2		
Lims ID:	ic g2				
Client ID:					
Operator ID:		ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		
Column:	J&W DB WAX (0.45 mm)	Detector	GC FID2B		

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

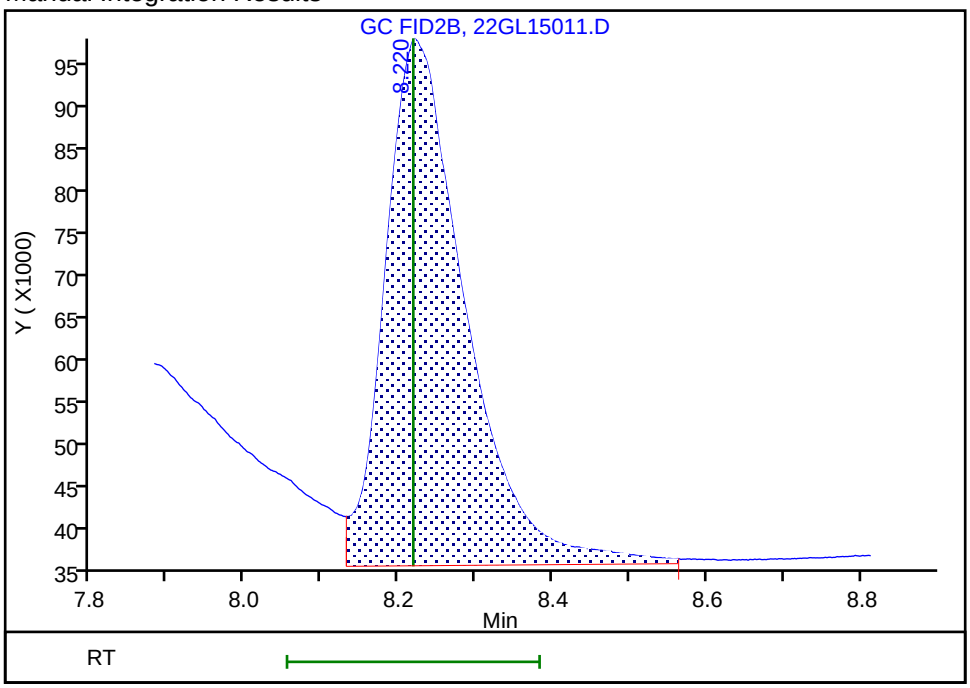
Processing Integration Results

RT: 8.22
Area: 392105
Amount: 9.266320
Amount Units: ug/ml



Manual Integration Results

RT: 8.22
Area: 450038
Amount: 9.552692
Amount Units: ug/ml



Reviewer: SWK1, 15-Dec-2022 18:31:12
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Savannah

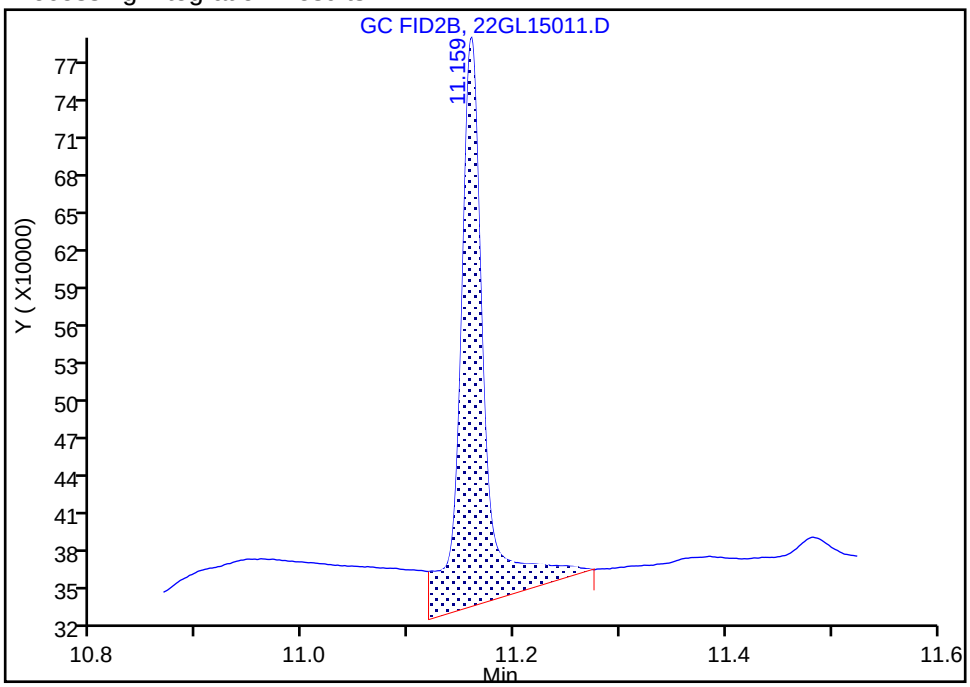
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15011.D
Injection Date: 15-Dec-2022 15:11:35 Instrument ID: CVGG2
Lims ID: ic g2
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

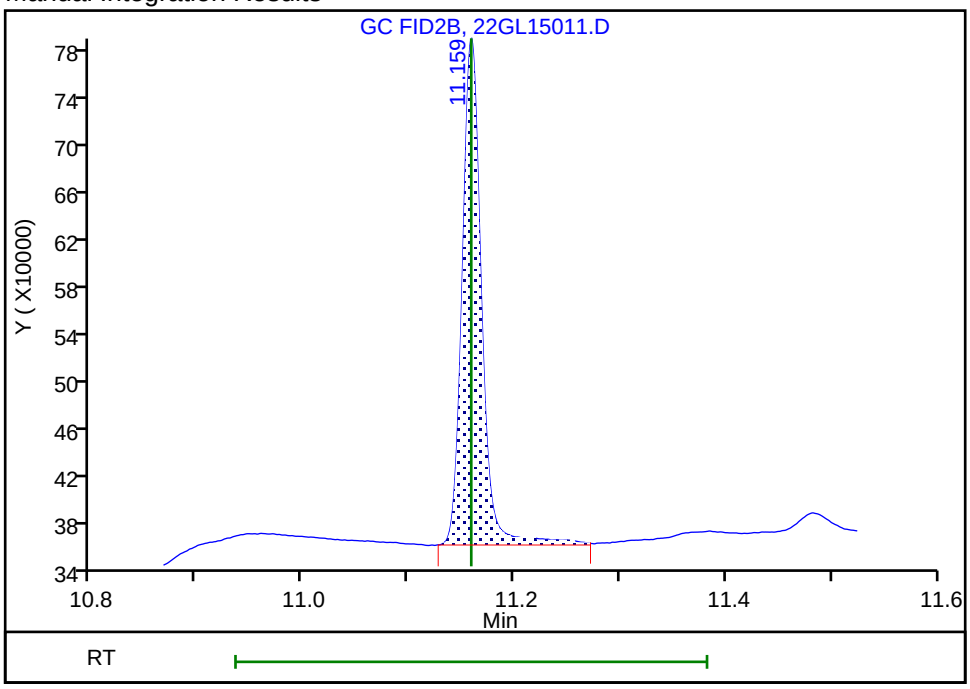
Processing Integration Results

RT: 11.16
Area: 706873
Amount: 10.907512
Amount Units: ug/ml



Manual Integration Results

RT: 11.16
Area: 529150
Amount: 10.564312
Amount Units: ug/ml



Reviewer: SWK1, 15-Dec-2022 18:28:58
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
Lims ID: ic g1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 15-Dec-2022 15:34:13 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0082752-012
Operator ID: Instrument ID: CVGG2
Sublist: chrom-8015_GLY_VGG*sub2

Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 15-Dec-2022 18:35:06 Calib Date: 15-Dec-2022 15:34:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host: CTX1659

First Level Reviewer: SWK1 Date: 15-Dec-2022 18:29:27

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 Ethanol, 2-propoxy						
	3.982	3.983	-0.001	416727	5.00	5.61	
	2 4-Hydroxy-4-methyl-2-pentanone						
	4.808	4.806	0.002	434849	5.00	5.59	
	3 2-Butoxyethanol						
	5.175	5.175	0.000	456743	5.00	5.69	
*	4 n-Heptyl Alcohol						
	5.708	5.708	0.000	7165368	50.0	50.0	
	5 Dipropylene Glycol Methyl Ether						
	6.830	6.831	-0.001	30872	5.00	5.39	
	6 Propylene glycol						M
	7.822	7.827	-0.005	270235	5.00	5.54	M
	7 Ethylene glycol						M
	8.221	8.218	0.003	280066	5.00	5.90	M
	8 2-(2-Butoxyethoxy)ethanol						
	9.492	9.491	0.001	405977	5.00	5.71	
	9 2,2'-Oxybisethanol						
	10.177	10.176	0.001	256938	5.00	5.63	
	10 Triethylene Glycol						M
	11.157	11.159	-0.002	291568	5.00	4.86	M
	11 Tetraethylene Glycol						
	12.819	12.821	-0.002	557362	10.0	9.92	

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00047	Amount Added:	2.50	Units: uL	
SG_GLY_ISTD_00099	Amount Added:	10.00	Units: uL	Run Reagent

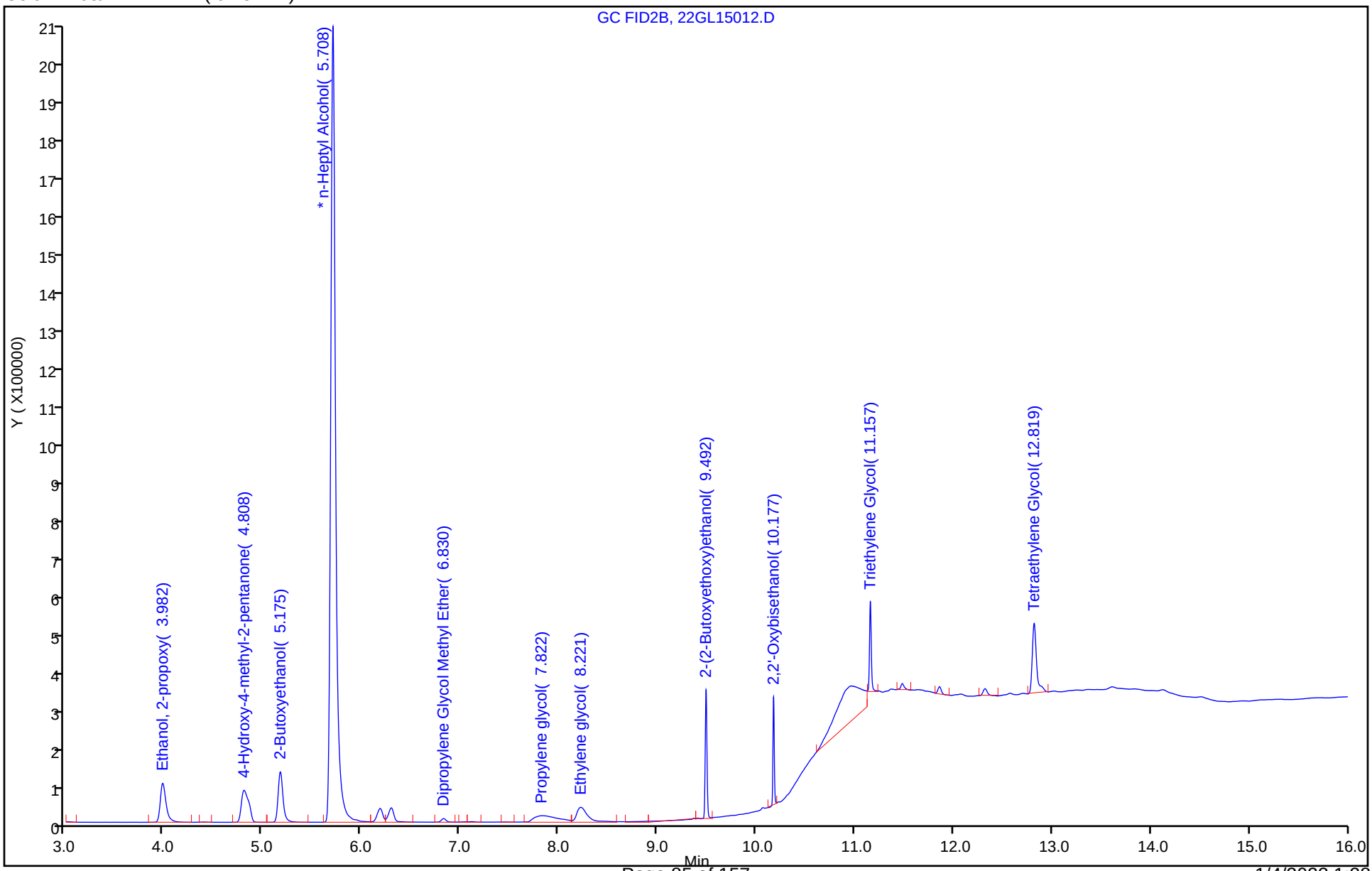
Report Date: 15-Dec-2022 18:35:06 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Injection Date:	15-Dec-2022 15:34:13	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	ic g1			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)



1/4/2023 1:28 PM

Manual Integration/User Assign Peak Report

Eurofins Savannah

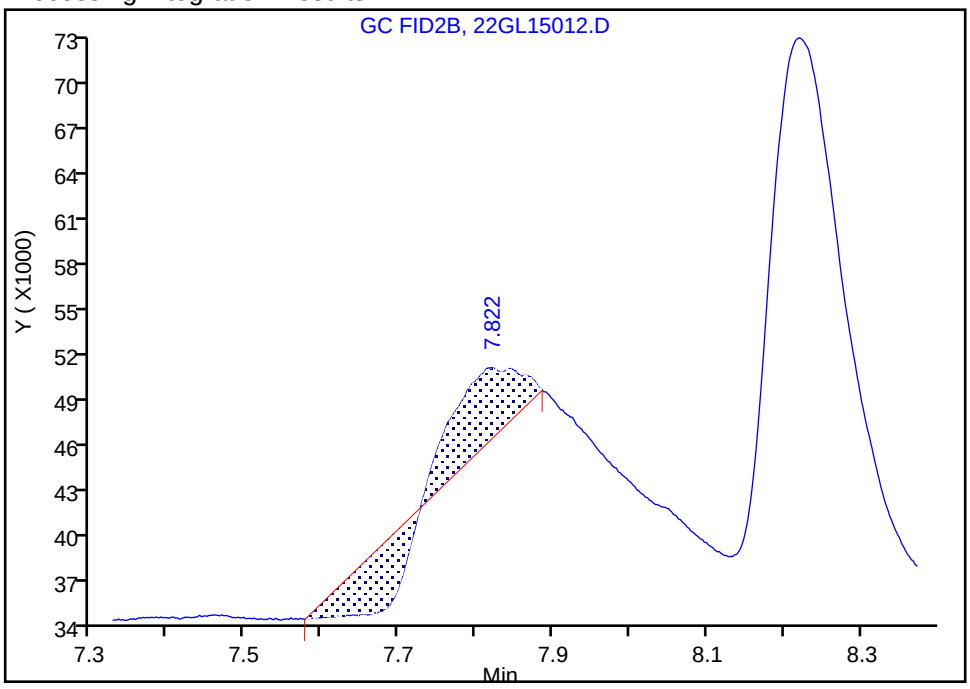
Data File:	\\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D				
Injection Date:	15-Dec-2022 15:34:13	Instrument ID:	CVGG2		
Lims ID:	ic g1				
Client ID:					
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		
Column:	J&W DB WAX (0.45 mm)	Detector	GC FID2B		

6 Propylene glycol, CAS: 57-55-6

Signal: 1

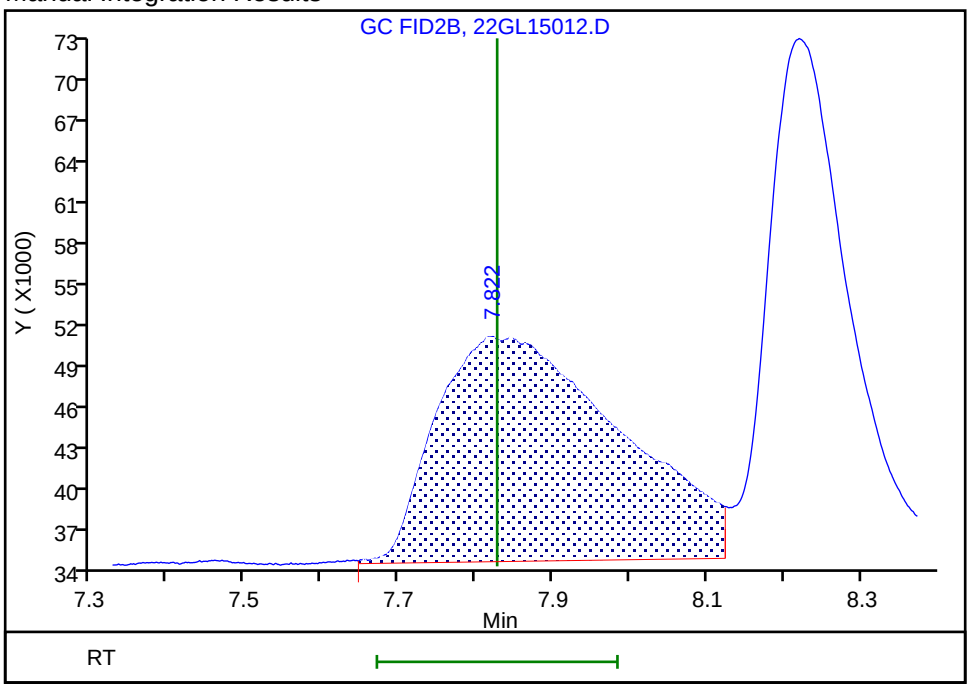
Processing Integration Results

RT: 7.82
Area: 7878
Amount: 0.221591
Amount Units: ug/ml



Manual Integration Results

RT: 7.82
Area: 270235
Amount: 5.536046
Amount Units: ug/ml



Reviewer: SWK1, 15-Dec-2022 18:29:24
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Savannah

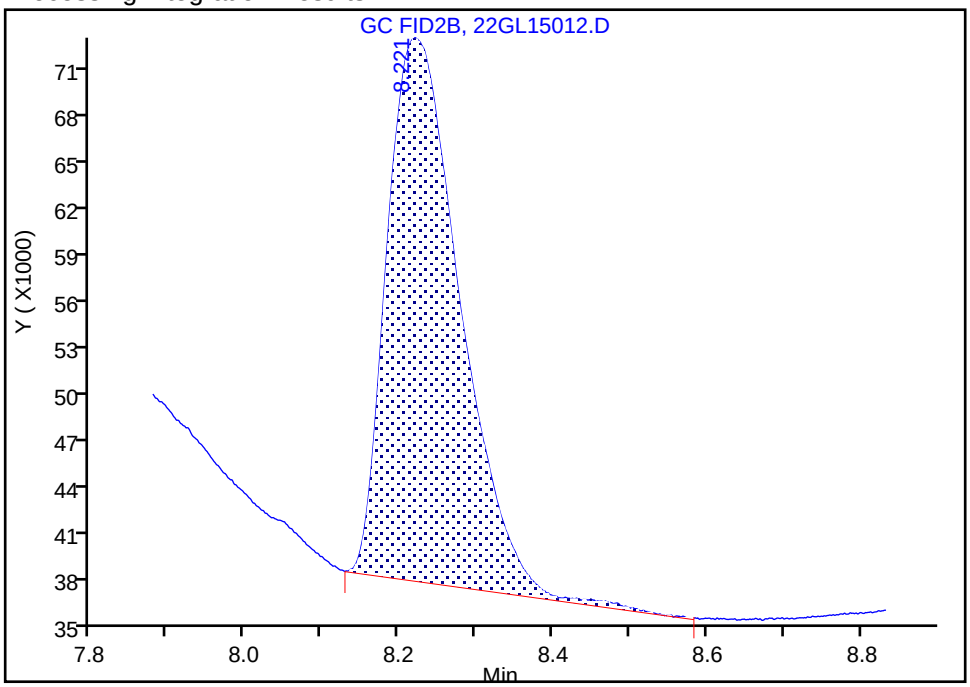
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
Injection Date: 15-Dec-2022 15:34:13 Instrument ID: CVGG2
Lims ID: ic g1
Client ID:
Operator ID: ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

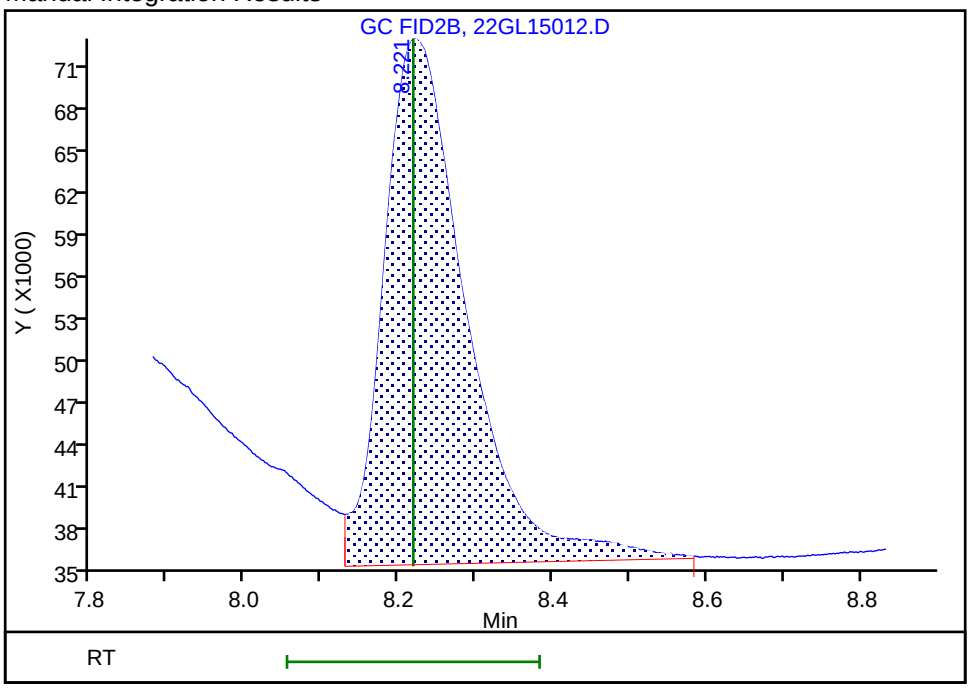
Processing Integration Results

RT: 8.22
Area: 230185
Amount: 5.613141
Amount Units: ug/ml



Manual Integration Results

RT: 8.22
Area: 280066
Amount: 5.895219
Amount Units: ug/ml



Reviewer: SWK1, 15-Dec-2022 18:29:24
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins Savannah

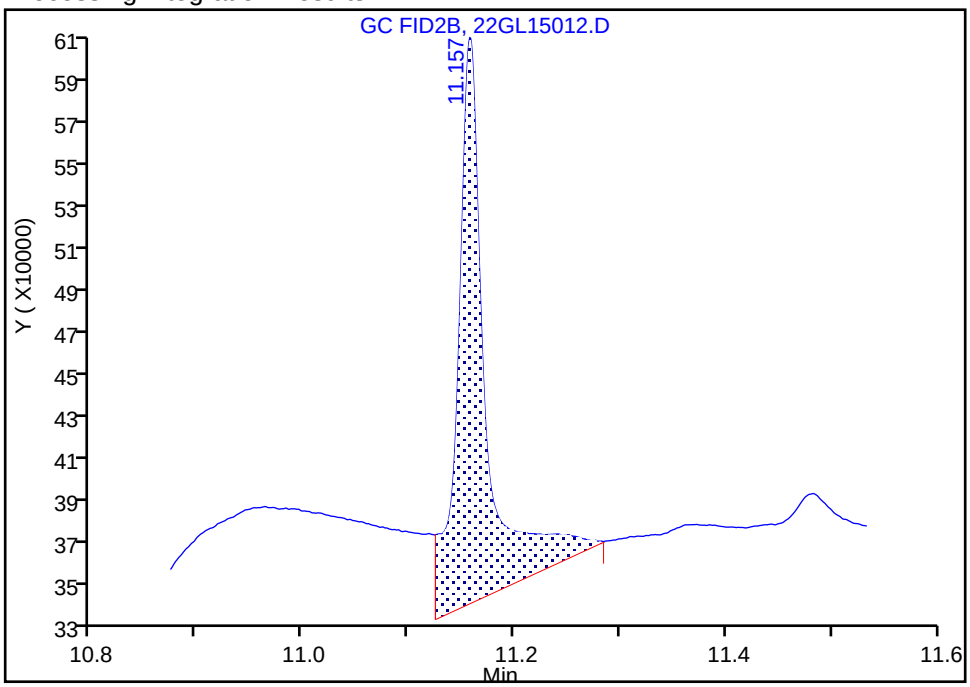
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
Injection Date: 15-Dec-2022 15:34:13 Instrument ID: CVGG2
Lims ID: ic g1
Client ID:
Operator ID: ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

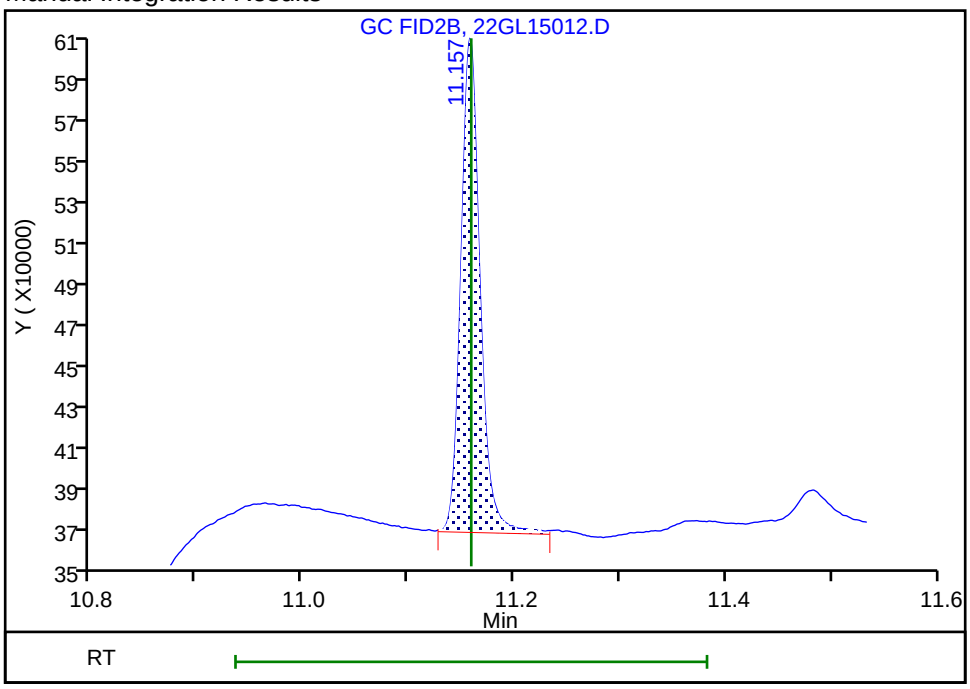
Processing Integration Results

RT: 11.16
Area: 486550
Amount: 5.773755
Amount Units: ug/ml



Manual Integration Results

RT: 11.16
Area: 291568
Amount: 4.864580
Amount Units: ug/ml



Reviewer: SWK1, 15-Dec-2022 18:29:18
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Lab Sample ID: ICV 680-755296/13 Calibration Date: 12/15/2022 15:56

Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40

GC Column: J&W DB WAX ID: 0.45(mm) Calib End Date: 12/15/2022 15:34

Lab File ID: 22GL15013.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Ave	0.5186	0.5767		22.2	20.0	11.2	20.0
4-Hydroxy-4-methyl-2-pentanone	Ave	0.5430	0.6080		22.4	20.0	12.0	20.0
2-Butoxyethanol	Ave	0.5604	0.6527		23.3	20.0	16.5	20.0
Dipropylene Glycol Methyl Ether	Ave	0.0399	0.0509		25.5	20.0	27.3*	20.0
Propylene glycol	Ave	0.3406	0.3726		21.9	20.0	9.4	20.0
Ethylene glycol	Ave	0.3315	0.3700		22.3	20.0	11.6	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.4963	0.5582		22.5	20.0	12.5	20.0
2,2'-Oxybisethanol	Ave	0.3183	0.3394		21.3	20.0	6.6	20.0
Triethylene Glycol	Lin2		0.3720		23.1	20.0	15.5	20.0
Tetraethylene Glycol	Lin2		0.3468		44.4	40.0	11.0	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Lab Sample ID: ICV 680-755296/13 Calibration Date: 12/15/2022 15:56

Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40

GC Column: J&W DB WAX ID: 0.45(mm) Calib End Date: 12/15/2022 15:34

Lab File ID: 22GL15013.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	3.98	3.90	4.06
4-Hydroxy-4-methyl-2-pentanone	4.81	4.71	4.90
2-Butoxyethanol	5.18	5.07	5.28
Dipropylene Glycol Methyl Ether	6.83	6.70	6.97
Propylene glycol	7.82	7.67	7.98
Ethylene glycol	8.21	8.05	8.38
2-(2-Butoxyethoxy)ethanol	9.49	9.30	9.68
2,2'-Oxybisethanol	10.18	9.97	10.38
Triethylene Glycol	11.16	10.94	11.38
Tetraethylene Glycol	12.82	12.57	13.08

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15013.D
Lims ID: icv gly
Client ID:
Sample Type: CCV
Inject. Date: 15-Dec-2022 15:56:59 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0082752-013
Operator ID: Instrument ID: CVGG2
Sublist: chrom-8015_GLY_VGG*sub2

Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 15-Dec-2022 18:45:54 Calib Date: 15-Dec-2022 15:34:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host: CTX1659

First Level Reviewer: SWK1 Date: 15-Dec-2022 18:29:52

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 Ethanol, 2-propoxy						
	3.981	3.983	-0.002	1804032	20.0	22.2	
	2 4-Hydroxy-4-methyl-2-pentanone						
	4.808	4.806	0.002	1902097	20.0	22.4	
	3 2-Butoxyethanol						
	5.175	5.175	0.000	2041849	20.0	23.3	
*	4 n-Heptyl Alcohol						
	5.709	5.708	0.001	7820966	50.0	50.0	
	5 Dipropylene Glycol Methyl Ether						
	6.831	6.831	0.000	159083	20.0	25.5	
	6 Propylene glycol						
	7.820	7.827	-0.007	1165778	20.0	21.9	
	7 Ethylene glycol						
	8.214	8.218	-0.004	1157642	20.0	22.3	
	8 2-(2-Butoxyethoxy)ethanol						
	9.492	9.491	0.001	1746317	20.0	22.5	
	9 2,2'-Oxybisethanol						
	10.176	10.176	0.000	1061785	20.0	21.3	
	10 Triethylene Glycol						M
	11.158	11.159	-0.001	1163679	20.0	23.1	M
	11 Tetraethylene Glycol						
	12.819	12.821	-0.002	2170110	40.0	44.4	

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_GlyICV_00056	Amount Added:	10.00	Units: uL	
SG_GLY_ISTD_00099	Amount Added:	10.00	Units: uL	Run Reagent

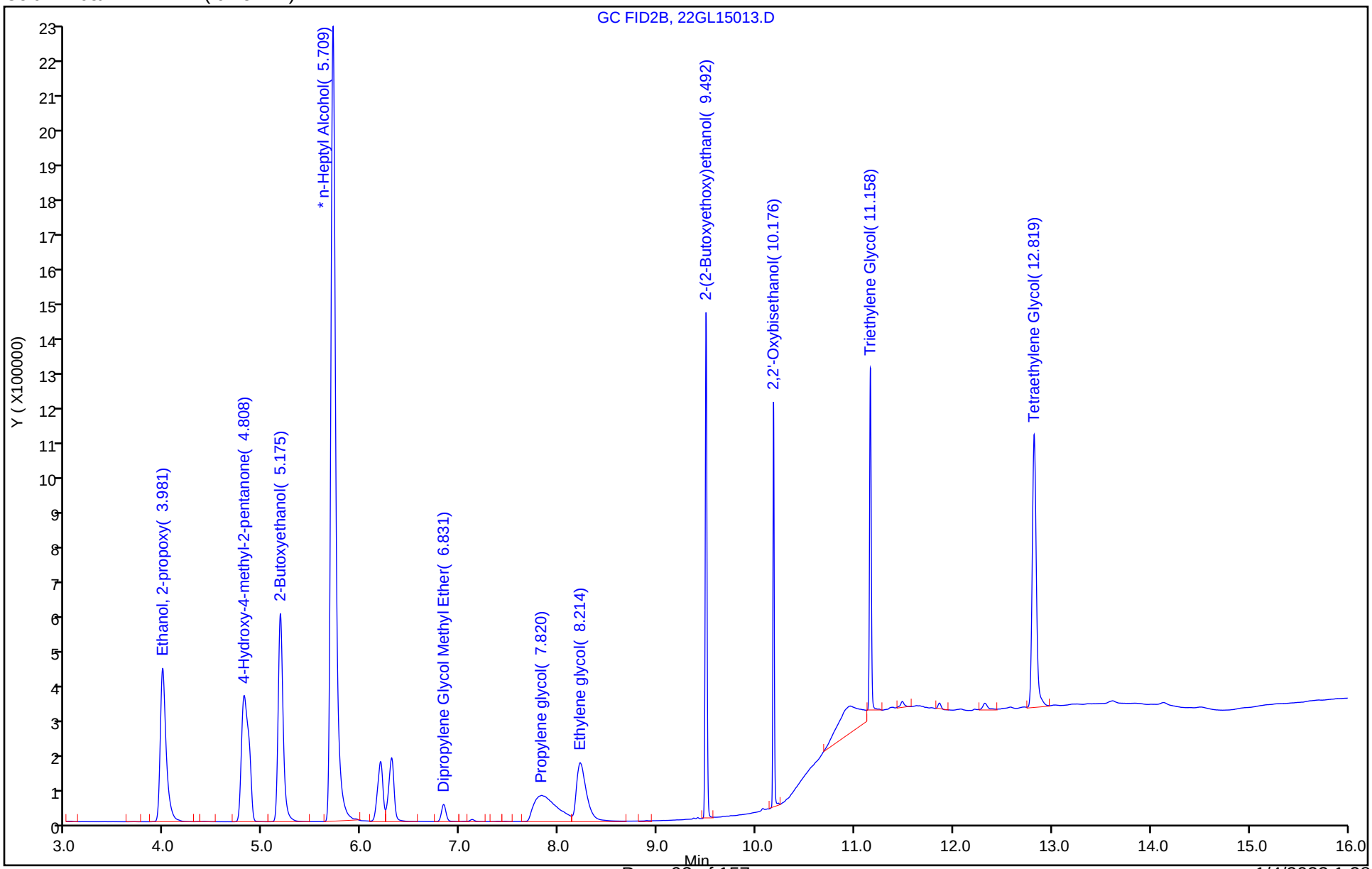
Report Date: 15-Dec-2022 18:45:55 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15013.D

Injection Date:	15-Dec-2022 15:56:59	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	icv gly			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)



Manual Integration/User Assign Peak Report

Eurofins Savannah

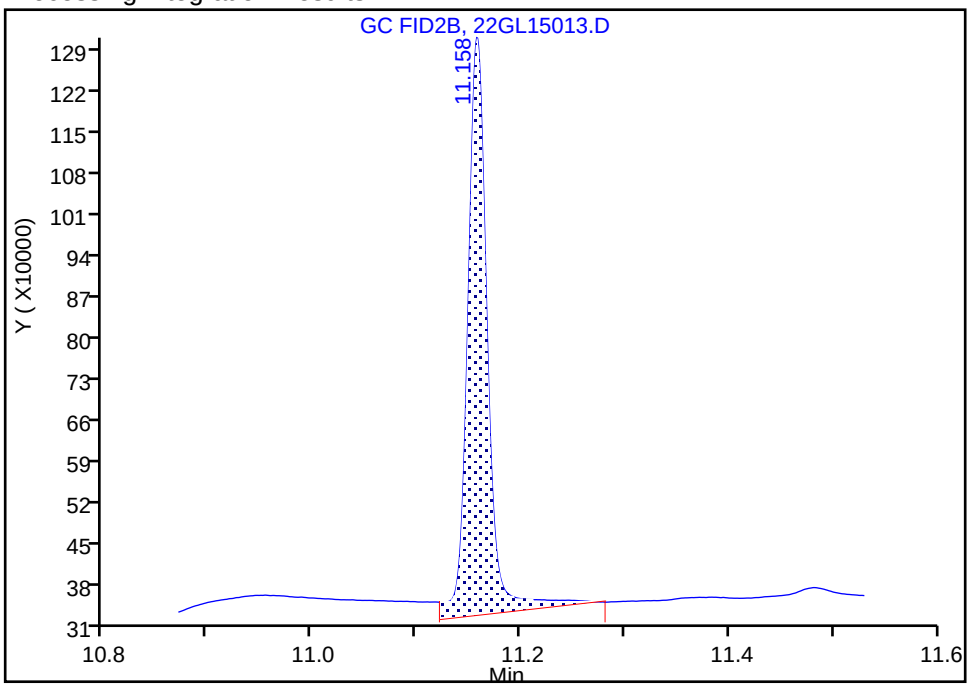
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15013.D
Injection Date: 15-Dec-2022 15:56:59 Instrument ID: CVGG2
Lims ID: icv gly
Client ID:
Operator ID: ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

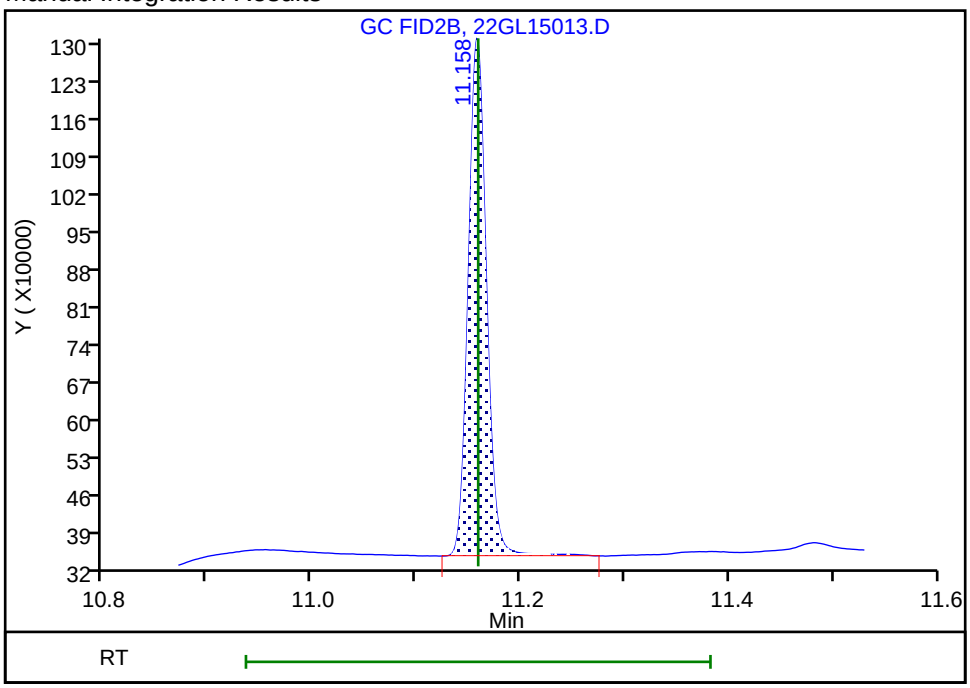
Processing Integration Results

RT: 11.16
Area: 1308485
Amount: 26.229441
Amount Units: ug/ml



Manual Integration Results

RT: 11.16
Area: 1163679
Amount: 23.105187
Amount Units: ug/ml



Reviewer: SWK1, 15-Dec-2022 18:29:42
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Lab Sample ID: CCV 680-755535/5 Calibration Date: 12/16/2022 17:20

Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40

GC Column: J&W DB WAX ID: 0.45(mm) Calib End Date: 12/15/2022 15:34

Lab File ID: 22GL16005.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Ave	0.5186	0.6061		23.4	20.0	16.9	20.0
4-Hydroxy-4-methyl-2-pentanone	Ave	0.5430	0.6398		23.6	20.0	17.8	20.0
2-Butoxyethanol	Ave	0.5604	0.6832		24.4	20.0	21.9*	20.0
Dipropylene Glycol Methyl Ether	Ave	0.0399	0.0534		26.7	20.0	33.6*	20.0
Propylene glycol	Ave	0.3406	0.4020		23.6	20.0	18.0	20.0
Ethylene glycol	Ave	0.3315	0.3888		23.5	20.0	17.3	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.4963	0.5861		23.6	20.0	18.1	20.0
2,2'-Oxybisethanol	Ave	0.3183	0.3577		22.5	20.0	12.4	20.0
Triethylene Glycol	Lin2		0.3804		23.7	20.0	18.4	20.0
Tetraethylene Glycol	Lin2		0.3643		46.8	40.0	17.0	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Lab Sample ID: CCV 680-755535/5 Calibration Date: 12/16/2022 17:20

Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40

GC Column: J&W DB WAX ID: 0.45(mm) Calib End Date: 12/15/2022 15:34

Lab File ID: 22GL16005.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	4.01	3.93	4.09
4-Hydroxy-4-methyl-2-pentanone	4.84	4.74	4.94
2-Butoxyethanol	5.21	5.10	5.31
Dipropylene Glycol Methyl Ether	6.86	6.73	7.00
Propylene glycol	7.84	7.68	7.99
Ethylene glycol	8.24	8.08	8.41
2-(2-Butoxyethoxy)ethanol	9.50	9.31	9.69
2,2'-Oxybisethanol	10.19	9.98	10.39
Triethylene Glycol	11.17	10.94	11.39
Tetraethylene Glycol	12.84	12.58	13.09

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16005.D
Lims ID: ccv g3
Client ID:
Sample Type: CCV
Inject. Date: 16-Dec-2022 17:20:21 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0082779-005
Operator ID: Instrument ID: CVGG2
Sublist: chrom-8015_GLY_VGG*sub2

Method: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 17-Dec-2022 11:05:40 Calib Date: 15-Dec-2022 15:34:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host: CTX1633

First Level Reviewer: SWK1 Date: 17-Dec-2022 10:56:16

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 Ethanol, 2-propoxy						
	4.011	4.011	0.000	1396651	20.0	23.4	
	2 4-Hydroxy-4-methyl-2-pentanone						
	4.839	4.839	0.000	1474343	20.0	23.6	
	3 2-Butoxyethanol						
	5.206	5.206	0.000	1574313	20.0	24.4	
*	4 n-Heptyl Alcohol						
	5.738	5.738	0.000	5760737	50.0	50.0	
	5 Dipropylene Glycol Methyl Ether						
	6.863	6.863	0.000	122995	20.0	26.7	
	6 Propylene glycol						
	7.837	7.837	0.000	926262	20.0	23.6	
	7 Ethylene glycol						
	8.243	8.243	0.000	895863	20.0	23.5	
	8 2-(2-Butoxyethoxy)ethanol						
	9.504	9.504	0.000	1350594	20.0	23.6	
	9 2,2'-Oxybisethanol						
	10.185	10.185	0.000	824349	20.0	22.5	
	10 Triethylene Glycol						
	11.167	11.167	0.000	876573	20.0	23.7	
	11 Tetraethylene Glycol						
	12.835	12.835	0.000	1678714	40.0	46.8	

QC Flag Legend
Processing Flags

Reagents:

SG_Gly_CAL_00047	Amount Added:	10.00	Units: uL	
SG_GLY_ISTD_00099	Amount Added:	10.00	Units: uL	Run Reagent

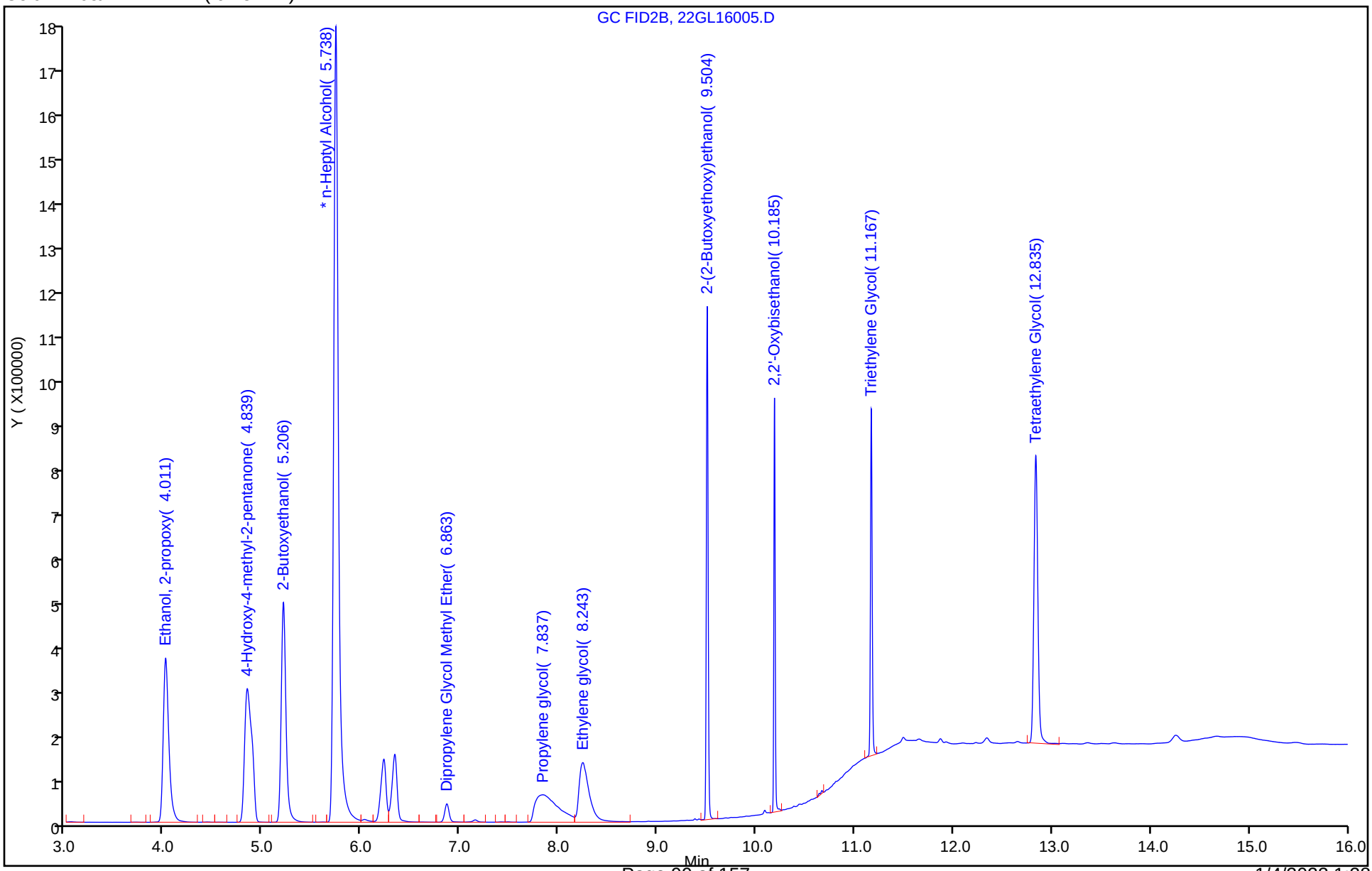
Report Date: 17-Dec-2022 11:05:40 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16005.D

Injection Date:	16-Dec-2022 17:20:21	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	ccv g3			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)



1/4/2023 1:28 PM

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Lab Sample ID: CCV 680-755535/28 Calibration Date: 12/17/2022 02:09

Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40

GC Column: J&W DB WAX ID: 0.45(mm) Calib End Date: 12/15/2022 15:34

Lab File ID: 22GL16028.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Ave	0.5186	0.5781		22.3	20.0	11.5	20.0
4-Hydroxy-4-methyl-2-pentanone	Ave	0.5430	0.5892		21.7	20.0	8.5	20.0
2-Butoxyethanol	Ave	0.5604	0.6593		23.5	20.0	17.7	20.0
Dipropylene Glycol Methyl Ether	Ave	0.0399	0.0513		25.7	20.0	28.6*	20.0
Propylene glycol	Ave	0.3406	0.3768		22.1	20.0	10.6	20.0
Ethylene glycol	Ave	0.3315	0.3516		21.2	20.0	6.1	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.4963	0.5676		22.9	20.0	14.4	20.0
2,2'-Oxybisethanol	Ave	0.3183	0.3037		19.1	20.0	-4.6	20.0
Triethylene Glycol	Lin2		0.2817		17.0	20.0	-14.9	20.0
Tetraethylene Glycol	Lin2		0.2159		26.3	40.0	-34.2*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Lab Sample ID: CCV 680-755535/28 Calibration Date: 12/17/2022 02:09

Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40

GC Column: J&W DB WAX ID: 0.45(mm) Calib End Date: 12/15/2022 15:34

Lab File ID: 22GL16028.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	4.02	3.94	4.10
4-Hydroxy-4-methyl-2-pentanone	4.84	4.75	4.94
2-Butoxyethanol	5.21	5.11	5.31
Dipropylene Glycol Methyl Ether	6.87	6.73	7.00
Propylene glycol	7.83	7.67	7.99
Ethylene glycol	8.24	8.07	8.40
2-(2-Butoxyethoxy)ethanol	9.51	9.32	9.70
2,2'-Oxybisethanol	10.19	9.98	10.39
Triethylene Glycol	11.17	10.94	11.39
Tetraethylene Glycol	12.84	12.58	13.09

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16028.D
Lims ID: ccv g3
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2022 02:09:10 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0082779-028
Operator ID: Instrument ID: CVGG2
Sublist: chrom-8015_GLY_VGG*sub2

Method: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 17-Dec-2022 11:05:41 Calib Date: 15-Dec-2022 15:34:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host: CTX1633

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 Ethanol, 2-propoxy						
	4.017	4.017	0.000	1789713	20.0	22.3	
	2 4-Hydroxy-4-methyl-2-pentanone						
	4.844	4.844	0.000	1823903	20.0	21.7	
	3 2-Butoxyethanol						
	5.210	5.210	0.000	2041077	20.0	23.5	
*	4 n-Heptyl Alcohol						
	5.742	5.742	0.000	7739063	50.0	50.0	
	5 Dipropylene Glycol Methyl Ether						
	6.867	6.867	0.000	158952	20.0	25.7	
	6 Propylene glycol						
	7.828	7.828	0.000	1166330	20.0	22.1	
	7 Ethylene glycol						
	8.239	8.239	0.000	1088342	20.0	21.2	
	8 2-(2-Butoxyethoxy)ethanol						
	9.505	9.505	0.000	1757164	20.0	22.9	
	9 2,2'-Oxybisethanol						
	10.186	10.186	0.000	940250	20.0	19.1	
	10 Triethylene Glycol						
	11.167	11.167	0.000	872098	20.0	17.0	
	11 Tetraethylene Glycol						
	12.835	12.835	0.000	1336993	40.0	26.3	

Reagents:

SG_Gly_CAL_00047 Amount Added: 10.00 Units: uL
SG_GLY_ISTD_00099 Amount Added: 10.00 Units: uL Run Reagent

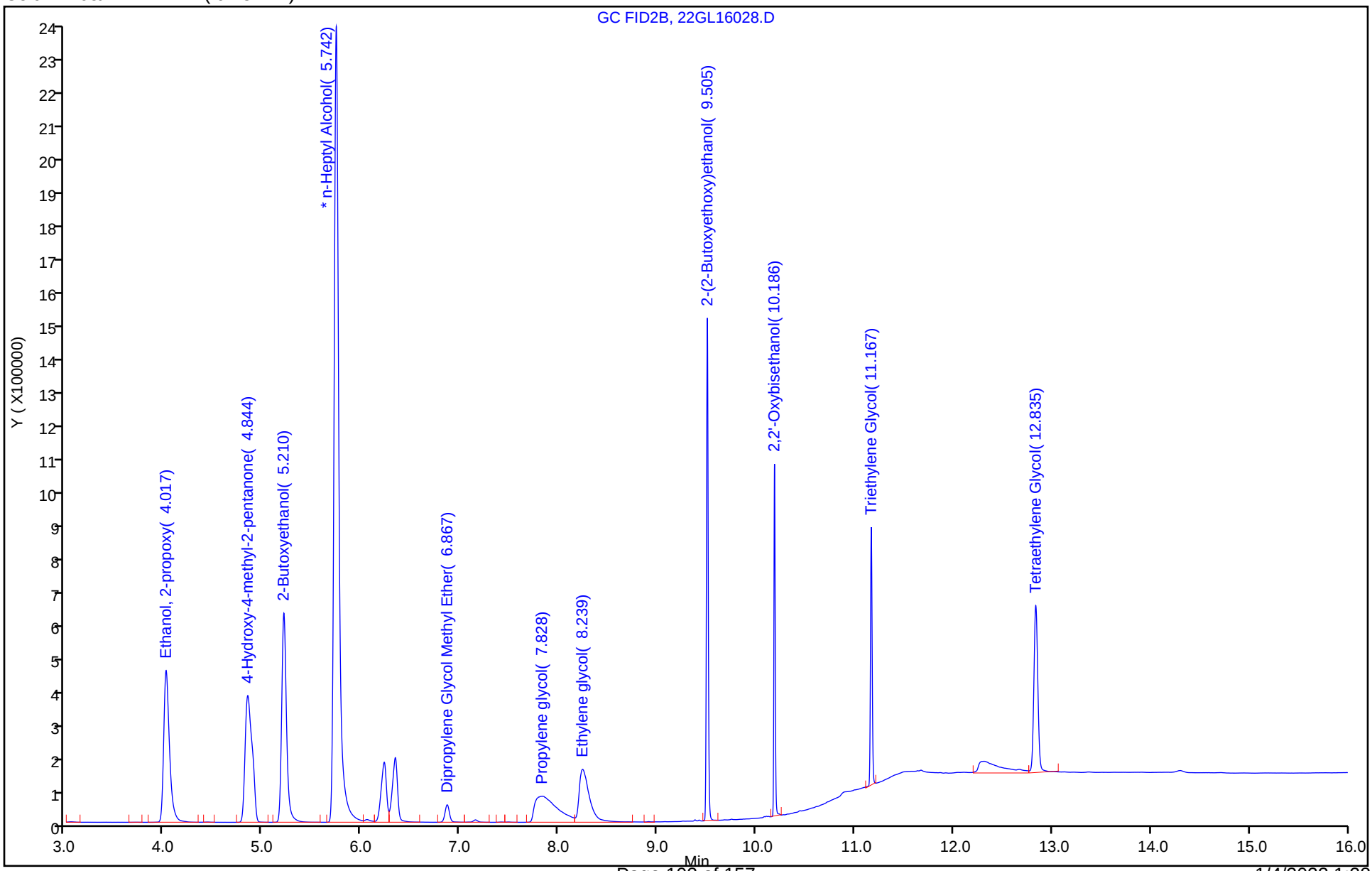
Report Date: 17-Dec-2022 11:05:41 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16028.D

Injection Date:	17-Dec-2022 02:09:10	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	ccv g3			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Lab Sample ID: CCVIS 680-755899/5 Calibration Date: 12/19/2022 13:45

Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40

GC Column: J&W DB WAX ID: 0.45(mm) Calib End Date: 12/15/2022 15:34

Lab File ID: 22GL19005.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Ave	0.5186	0.5094		19.6	20.0	-1.8	20.0
4-Hydroxy-4-methyl-2-pentanone	Ave	0.5430	0.5395		19.9	20.0	-0.6	20.0
2-Butoxyethanol	Ave	0.5604	0.5448		19.4	20.0	-2.8	20.0
Dipropylene Glycol Methyl Ether	Ave	0.0399	0.0449		22.5	20.0	12.5	20.0
Propylene glycol	Ave	0.3406	0.4064		23.9	20.0	19.3	20.0
Ethylene glycol	Ave	0.3315	0.3622		21.9	20.0	9.3	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.4963	0.5043		20.3	20.0	1.6	20.0
2,2'-Oxybisethanol	Ave	0.3183	0.3459		21.7	20.0	8.7	20.0
Triethylene Glycol	Lin2		0.3357		20.7	20.0	3.3	20.0
Tetraethylene Glycol	Lin2		0.3188		40.5	40.0	1.3	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Lab Sample ID: CCVIS 680-755899/5 Calibration Date: 12/19/2022 13:45

Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40

GC Column: J&W DB WAX ID: 0.45(mm) Calib End Date: 12/15/2022 15:34

Lab File ID: 22GL19005.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	4.09	4.00	4.17
4-Hydroxy-4-methyl-2-pentanone	4.91	4.81	5.01
2-Butoxyethanol	5.28	5.17	5.38
Dipropylene Glycol Methyl Ether	6.93	6.79	7.07
Propylene glycol	7.88	7.72	8.04
Ethylene glycol	8.30	8.13	8.46
2-(2-Butoxyethoxy)ethanol	9.53	9.34	9.72
2,2'-Oxybisethanol	10.20	10.00	10.41
Triethylene Glycol	11.18	10.96	11.41
Tetraethylene Glycol	12.87	12.61	13.12

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221219-82846.b\22GL19005.D
Lims ID: ccvis g3
Client ID:
Sample Type: CCVIS
Inject. Date: 19-Dec-2022 13:45:32 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0082846-005
Operator ID: Instrument ID: CVGG2
Sublist: chrom-8015_GLY_VGG*sub2

Method: \\chromfs\Savannah\ChromData\CVGG2\20221219-82846.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 20-Dec-2022 10:50:04 Calib Date: 15-Dec-2022 15:34:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host: CTX1668

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 Ethanol, 2-propoxy						
	4.086	4.086	0.000	1079072	20.0	19.6	
	2 4-Hydroxy-4-methyl-2-pentanone						
	4.908	4.908	0.000	1142902	20.0	19.9	
	3 2-Butoxyethanol						
	5.275	5.275	0.000	1154111	20.0	19.4	
*	4 n-Heptyl Alcohol						
	5.801	5.801	0.000	5296247	50.0	50.0	
	5 Dipropylene Glycol Methyl Ether						
	6.928	6.928	0.000	95224	20.0	22.5	
	6 Propylene glycol						
	7.881	7.881	0.000	860980	20.0	23.9	
	7 Ethylene glycol						
	8.298	8.298	0.000	767259	20.0	21.9	
	8 2-(2-Butoxyethoxy)ethanol						
	9.525	9.525	0.000	1068339	20.0	20.3	
	9 2,2'-Oxybisethanol						
	10.202	10.202	0.000	732880	20.0	21.7	
	10 Triethylene Glycol						
	11.183	11.183	0.000	711109	20.0	20.7	
	11 Tetraethylene Glycol						
	12.867	12.867	0.000	1350743	40.0	40.5	

Reagents:

SG_Gly_CAL_00047 Amount Added: 10.00 Units: uL
SG_GLY_ISTD_00099 Amount Added: 10.00 Units: uL Run Reagent

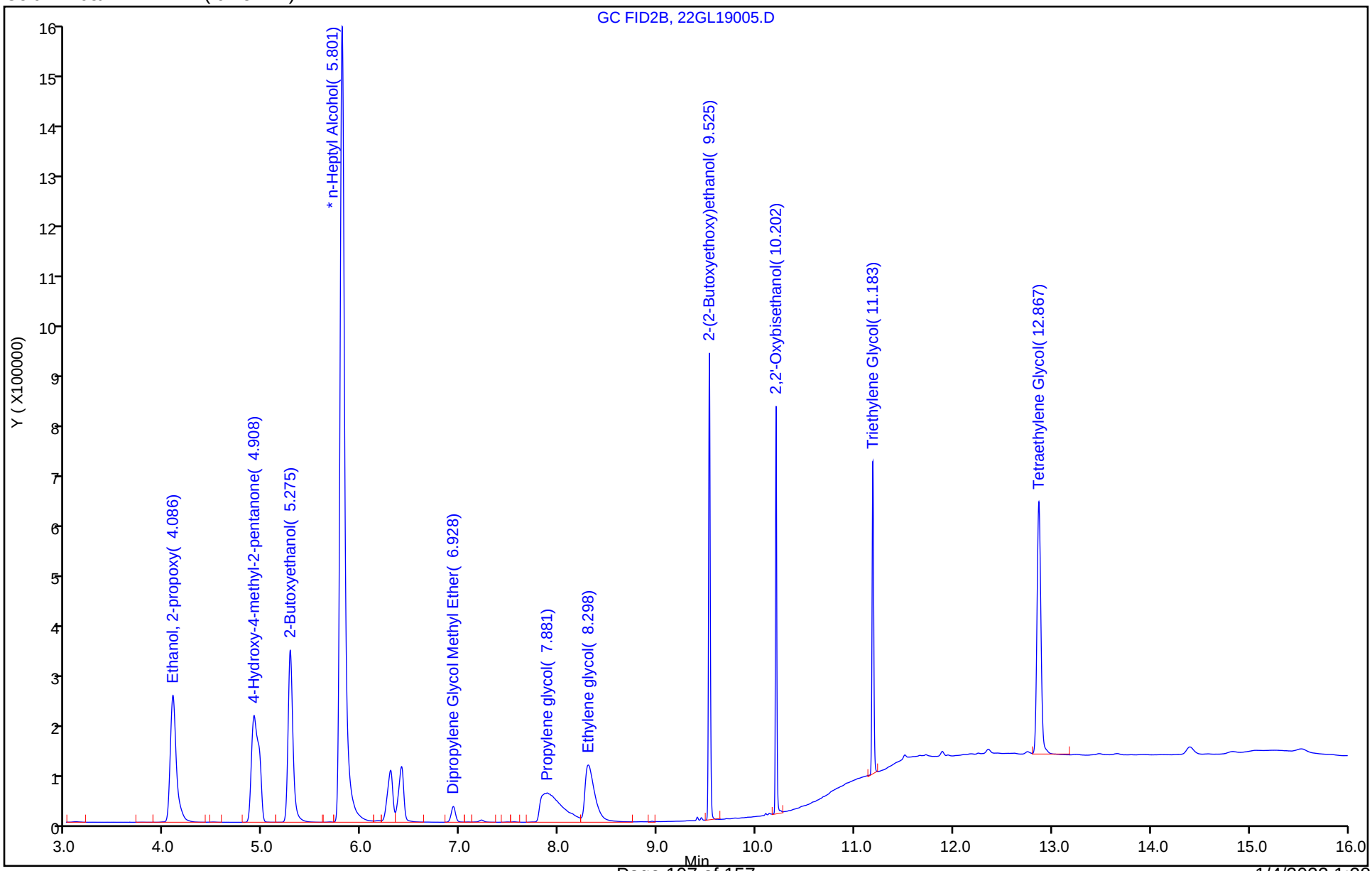
Report Date: 20-Dec-2022 10:50:04 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221219-82846.b\22GL19005.D

Injection Date:	19-Dec-2022 13:45:32	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	ccvis g3			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)



1/4/2023 1:28 PM

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Lab Sample ID: CCV 680-755899/10 Calibration Date: 12/19/2022 15:51

Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40

GC Column: J&W DB WAX ID: 0.45(mm) Calib End Date: 12/15/2022 15:34

Lab File ID: 22GL19010.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Ave	0.5186	0.5891		22.7	20.0	13.6	20.0
4-Hydroxy-4-methyl-2-pentanone	Ave	0.5430	0.6275		23.1	20.0	15.6	20.0
2-Butoxyethanol	Ave	0.5604	0.6390		22.8	20.0	14.0	20.0
Dipropylene Glycol Methyl Ether	Ave	0.0399	0.0525		26.3	20.0	31.5*	20.0
Propylene glycol	Ave	0.3406	0.4425		26.0	20.0	29.9*	20.0
Ethylene glycol	Ave	0.3315	0.3790		22.9	20.0	14.3	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.4963	0.5891		23.7	20.0	18.7	20.0
2,2'-Oxybisethanol	Ave	0.3183	0.3730		23.4	20.0	17.2	20.0
Triethylene Glycol	Lin2		0.3720		23.1	20.0	15.5	20.0
Tetraethylene Glycol	Lin2		0.3639		46.8	40.0	16.9	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Lab Sample ID: CCV 680-755899/10 Calibration Date: 12/19/2022 15:51

Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40

GC Column: J&W DB WAX ID: 0.45(mm) Calib End Date: 12/15/2022 15:34

Lab File ID: 22GL19010.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	4.08	4.00	4.16
4-Hydroxy-4-methyl-2-pentanone	4.91	4.81	5.01
2-Butoxyethanol	5.27	5.17	5.38
Dipropylene Glycol Methyl Ether	6.92	6.79	7.06
Propylene glycol	7.85	7.69	8.01
Ethylene glycol	8.29	8.13	8.46
2-(2-Butoxyethoxy)ethanol	9.52	9.33	9.72
2,2'-Oxybisethanol	10.20	10.00	10.40
Triethylene Glycol	11.18	10.96	11.41
Tetraethylene Glycol	12.87	12.61	13.12

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221219-82846.b\22GL19010.D
Lims ID: ccv g3
Client ID:
Sample Type: CCV
Inject. Date: 19-Dec-2022 15:51:16 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0082846-010
Operator ID: Instrument ID: CVGG2
Sublist: chrom-8015_GLY_VGG*sub2

Method: \\chromfs\Savannah\ChromData\CVGG2\20221219-82846.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 20-Dec-2022 10:50:05 Calib Date: 15-Dec-2022 15:34:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host: CTX1668

First Level Reviewer: SK9U Date: 19-Dec-2022 16:24:03

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 Ethanol, 2-propoxy						
	4.083	4.083	0.000	1815286	20.0	22.7	
	2 4-Hydroxy-4-methyl-2-pentanone						
	4.907	4.907	0.000	1933639	20.0	23.1	
	3 2-Butoxyethanol						
	5.270	5.270	0.000	1969208	20.0	22.8	
*	4 n-Heptyl Alcohol						M
	5.797	5.797	0.000	7704153	50.0	50.0	M
	5 Dipropylene Glycol Methyl Ether						
	6.924	6.924	0.000	161837	20.0	26.3	
	6 Propylene glycol						
	7.850	7.850	0.000	1363736	20.0	26.0	
	7 Ethylene glycol						
	8.292	8.292	0.000	1167866	20.0	22.9	
	8 2-(2-Butoxyethoxy)ethanol						
	9.524	9.524	0.000	1815482	20.0	23.7	
	9 2,2'-Oxybisethanol						
	10.200	10.200	0.000	1149315	20.0	23.4	
	10 Triethylene Glycol						
	11.182	11.182	0.000	1146236	20.0	23.1	
	11 Tetraethylene Glycol						
	12.866	12.866	0.000	2242872	40.0	46.8	

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00047	Amount Added:	10.00	Units: uL	
SG_GLY_ISTD_00099	Amount Added:	10.00	Units: uL	Run Reagent

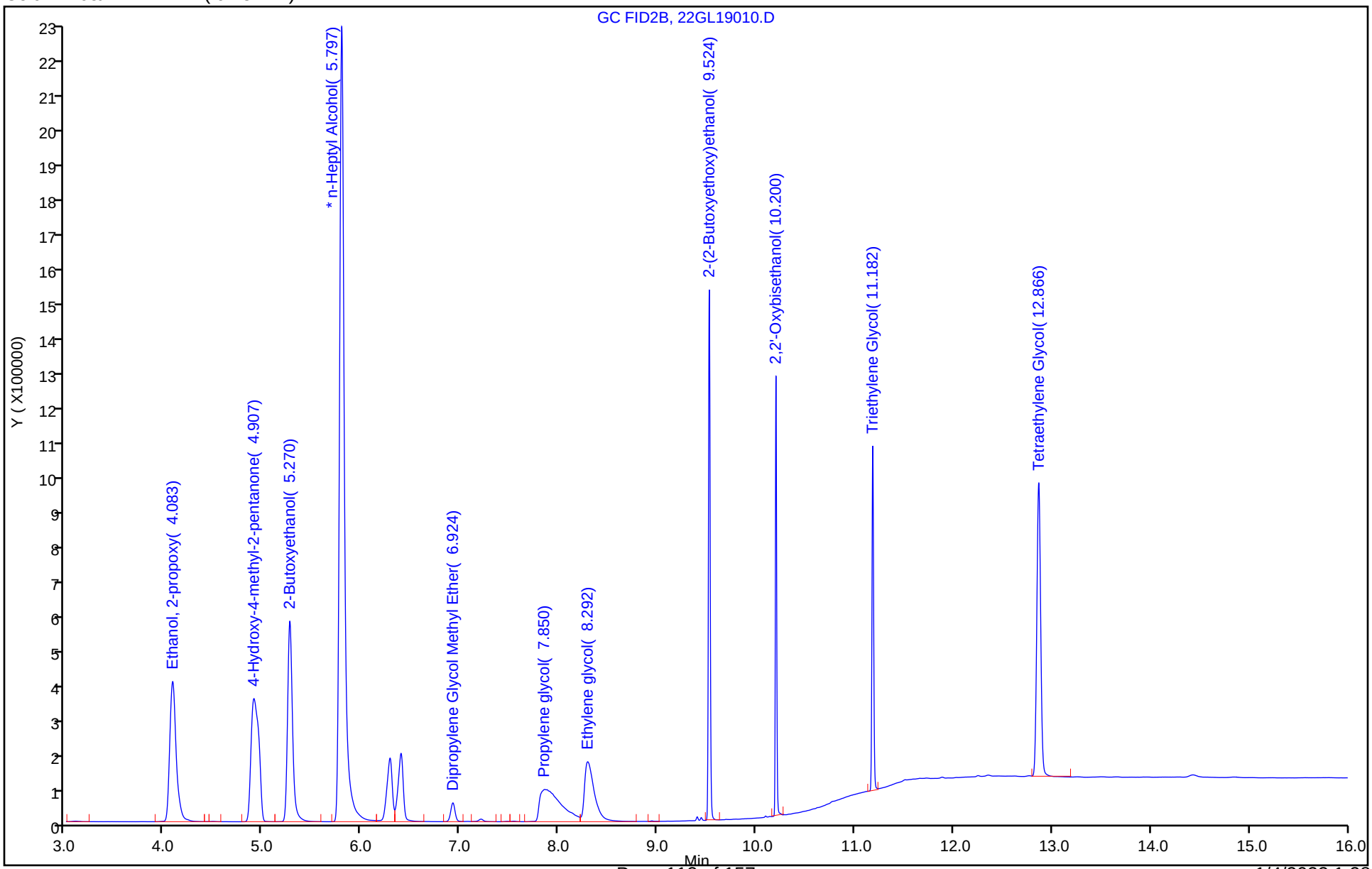
Report Date: 20-Dec-2022 10:50:06 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221219-82846.b\22GL19010.D

Injection Date:	19-Dec-2022 15:51:16	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	ccv g3			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)



Manual Integration/User Assign Peak Report

Eurofins Savannah

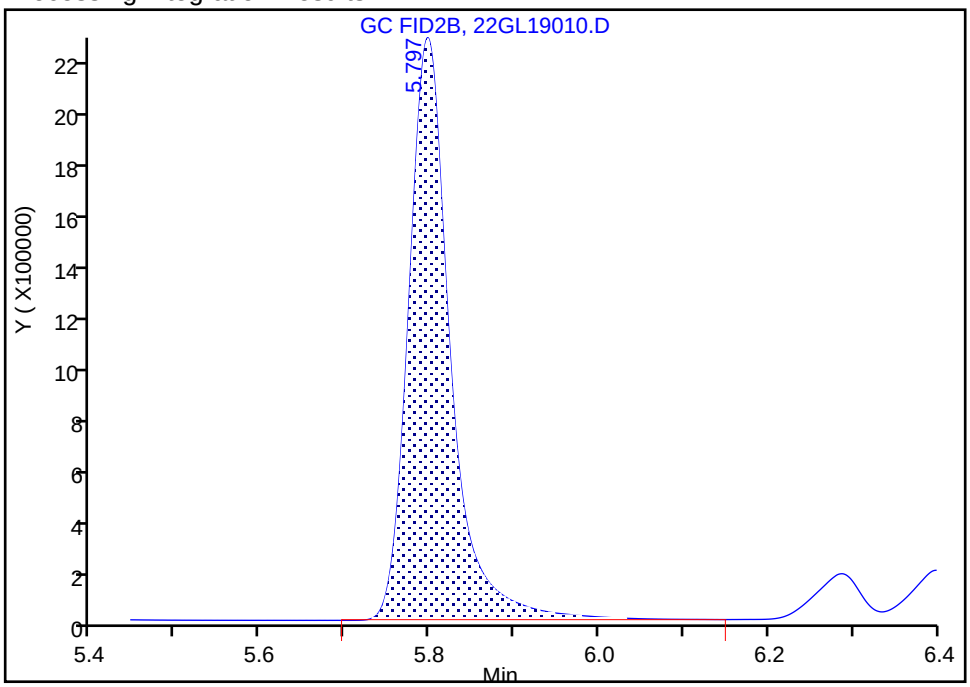
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221219-82846.b\22GL19010.D
Injection Date: 19-Dec-2022 15:51:16 Instrument ID: CVGG2
Lims ID: ccv g3
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector GC FID2B

* 4 n-Heptyl Alcohol, CAS: 111-70-6

Signal: 1

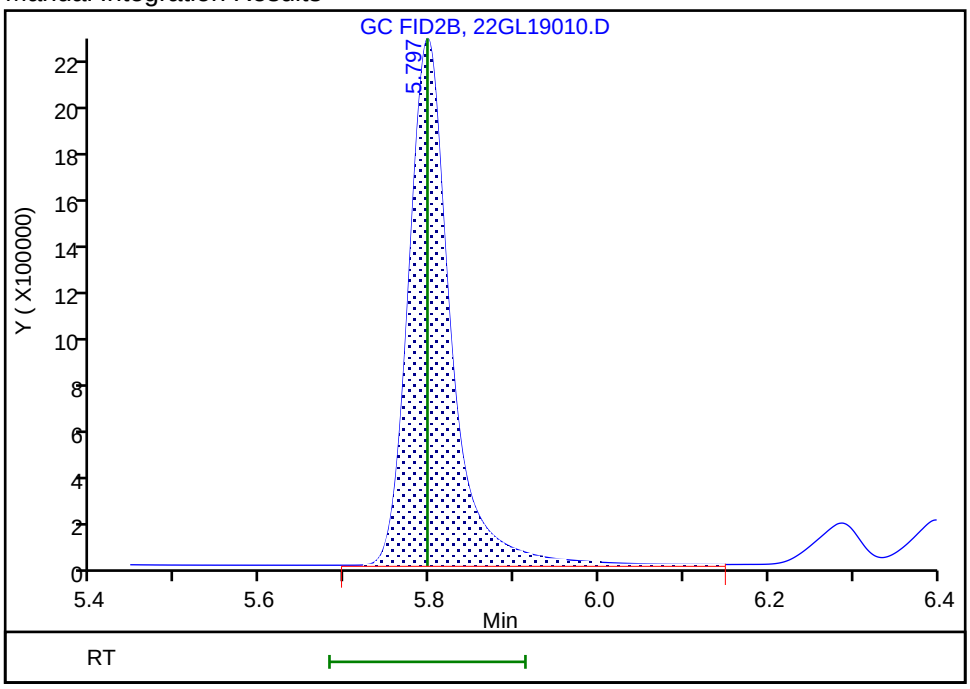
Processing Integration Results

RT: 5.80
Area: 7663142
Amount: 50.000000
Amount Units: ug/ml



Manual Integration Results

RT: 5.80
Area: 7704153
Amount: 50.000000
Amount Units: ug/ml



Reviewer: SK9U, 19-Dec-2022 16:15:59
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah | Job No.: 580-121097-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 680-755493/1-A

Matrix: Solid (Soluble) | Lab File ID: 22GL16014.D

Analysis Method: 8015C GLY | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 12/16/2022 20:53

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

Injection Volume: 1(uL) | GC Column: J&W DB WAX ID: 0.45(mm)

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

Cleanup Factor:

Analysis Batch No.: 755535 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	1.5	U	4.9	1.5	0.60

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16014.D
Lims ID: MB 680-755493/1-A
Client ID:
Sample Type: MB
Inject. Date: 16-Dec-2022 20:53:49 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0082779-014
Operator ID: Instrument ID: CVGG2

Method: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 17-Dec-2022 10:58:31 Calib Date: 15-Dec-2022 15:34:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host: CTX1633

First Level Reviewer: SWK1 Date: 17-Dec-2022 10:57:23

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3	2-Butoxyethanol						7
	5.204	5.206	-0.002	9262		0.1077	7
	LOD =	0.5000					
* 4	n-Heptyl Alcohol						
	5.743	5.738	0.005	7674260	50.0	50.0	
7	Ethylene glycol						7
	8.266	8.243	0.023	3622		0.0712	7
	LOD =	0.6600					

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

SG_GLY_ISTD_00099 Amount Added: 10.00 Units: uL Run Reagent

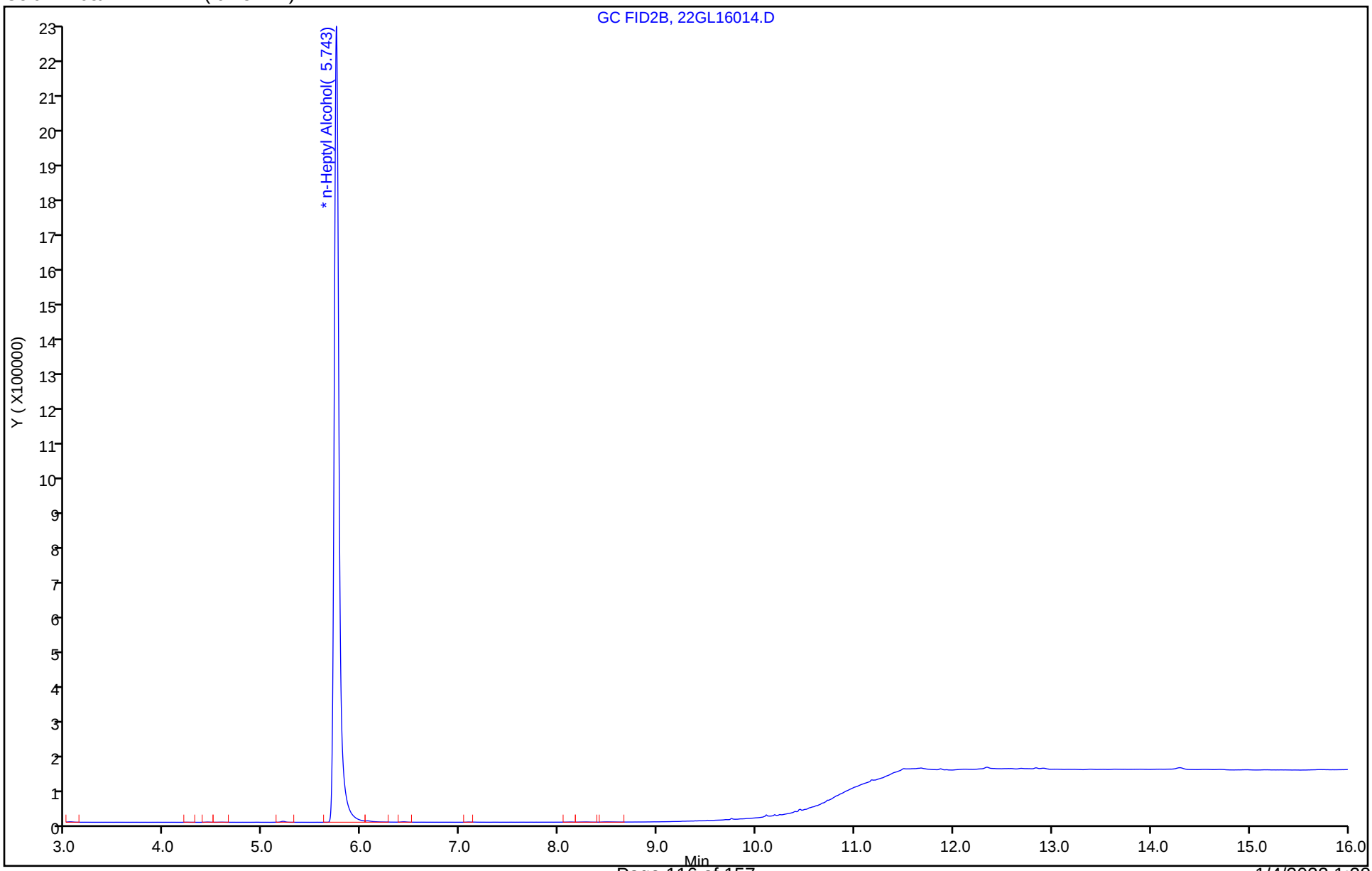
Report Date: 17-Dec-2022 11:05:34 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16014.D

Injection Date:	16-Dec-2022 20:53:49	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	MB 680-755493/1-A			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)



1/4/2023 1:28 PM

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah | Job No.: 580-121097-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 680-755493/2-A

Matrix: Solid (Soluble) | Lab File ID: 22GL16009.D

Analysis Method: 8015C GLY | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 12/16/2022 19:00

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

Injection Volume: 1(uL) | GC Column: J&W DB WAX ID: 0.45(mm)

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

Cleanup Factor:

Analysis Batch No.: 755535 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	7.96		5.0	1.5	0.62

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16009.D
Lims ID: LCS 680-755493/2-A
Client ID:
Sample Type: LCS
Inject. Date: 16-Dec-2022 19:00:56 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0082779-009
Operator ID: Instrument ID: CVGG2

Method: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 17-Dec-2022 10:58:31 Calib Date: 15-Dec-2022 15:34:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host: CTX1633

First Level Reviewer: SWK1 Date: 17-Dec-2022 10:56:44

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 Ethanol, 2-propoxy						
	4.018	4.011	0.007	401896	20.0	7.39	
	2 4-Hydroxy-4-methyl-2-pentanone						
	4.843	4.839	0.004	424309	20.0	7.45	
	3 2-Butoxyethanol						
	5.208	5.206	0.002	460952	20.0	7.85	
*	4 n-Heptyl Alcohol						
	5.739	5.738	0.001	5241611	50.0	50.0	
	5 Dipropylene Glycol Methyl Ether						
	6.866	6.863	0.003	37285	20.0	8.90	
	6 Propylene glycol						M
	7.851	7.837	0.014	274091	20.0	7.68	M
	7 Ethylene glycol						M
	8.246	8.243	0.003	260752	20.0	7.50	M
	8 2-(2-Butoxyethoxy)ethanol						
	9.505	9.504	0.001	416542	20.0	8.01	
	9 2,2'-Oxybisethanol						
	10.186	10.185	0.001	241869	20.0	7.25	
	10 Triethylene Glycol						
	11.168	11.167	0.001	261130	20.0	6.40	
	11 Tetraethylene Glycol						
	12.837	12.835	0.002	461478	40.0	11.7	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

SG_GLY_ISTD_00099 Amount Added: 10.00 Units: uL Run Reagent

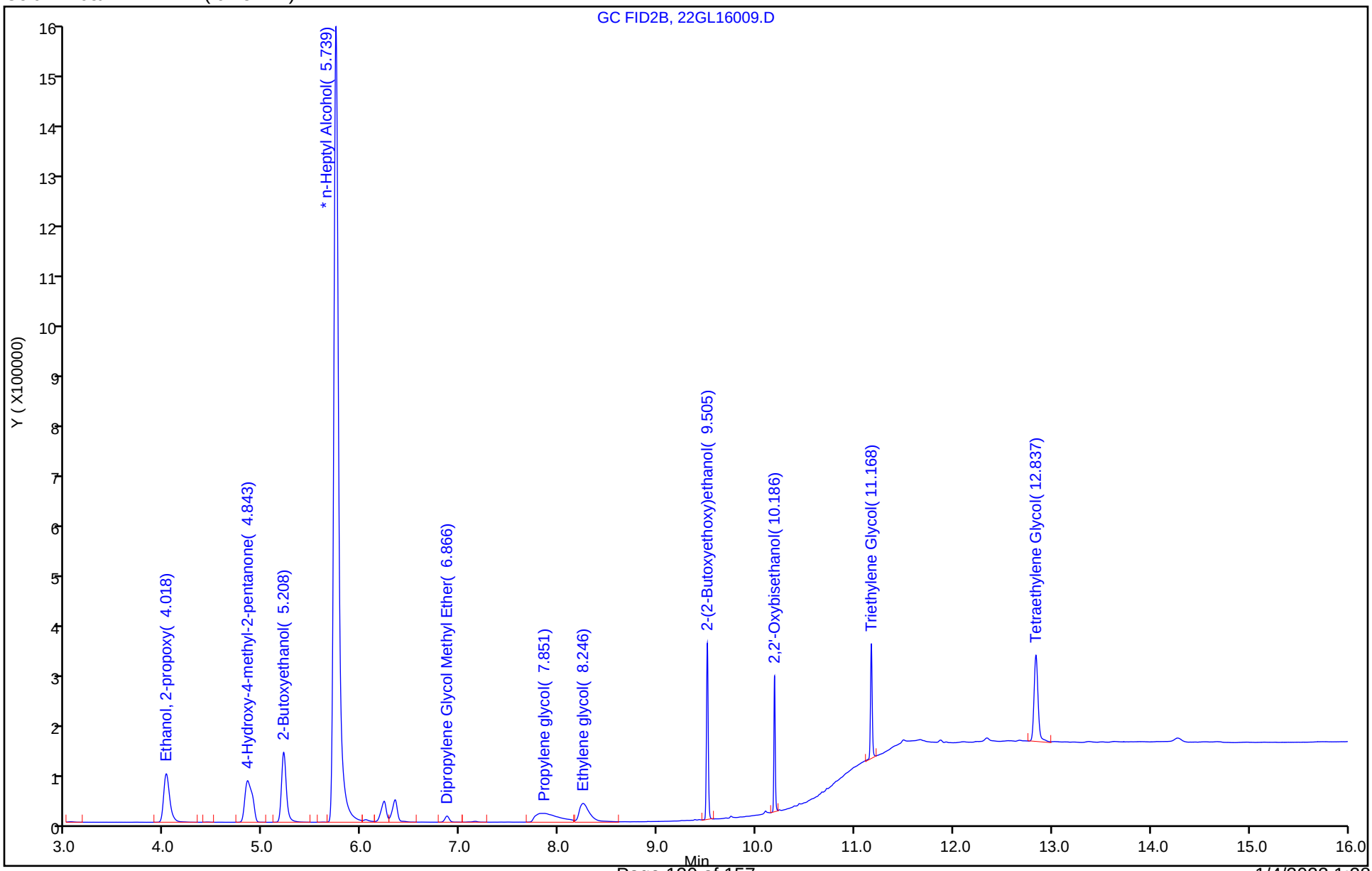
Report Date: 17-Dec-2022 11:05:39 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16009.D

Injection Date:	16-Dec-2022 19:00:56	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	LCS 680-755493/2-A			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 680-755493/3-A

Matrix: Solid (Soluble) Lab File ID: 22GL16010.D

Analysis Method: 8015C GLY Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 12/16/2022 19:23

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

Injection Volume: 1(uL) GC Column: J&W DB WAX ID: 0.45(mm)

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

Cleanup Factor:

Analysis Batch No.: 755535 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	6.35		5.0	1.5	0.62

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16010.D
Lims ID: LCSD 680-755493/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 16-Dec-2022 19:23:34 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0082779-010
Operator ID: Instrument ID: CVGG2

Method: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 17-Dec-2022 10:58:31 Calib Date: 15-Dec-2022 15:34:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host: CTX1633

First Level Reviewer: SWK1 Date: 17-Dec-2022 10:57:05

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 Ethanol, 2-propoxy						
	4.022	4.011	0.011	395818	20.0	6.25	
	2 4-Hydroxy-4-methyl-2-pentanone						
	4.845	4.839	0.006	416247	20.0	6.28	
	3 2-Butoxyethanol						
	5.212	5.206	0.006	454956	20.0	6.65	
*	4 n-Heptyl Alcohol						
	5.742	5.738	0.004	6104403	50.0	50.0	
	5 Dipropylene Glycol Methyl Ether						
	6.869	6.863	0.006	35358	20.0	7.25	
	6 Propylene glycol						M
	7.856	7.837	0.019	259768	20.0	6.25	M
	7 Ethylene glycol						
	8.249	8.243	0.006	246545	20.0	6.09	
	8 2-(2-Butoxyethoxy)ethanol						
	9.505	9.504	0.001	386958	20.0	6.39	
	9 2,2'-Oxybisethanol						
	10.186	10.185	0.001	224522	20.0	5.78	
	10 Triethylene Glycol						
	11.167	11.167	0.000	229895	20.0	4.35	
	11 Tetraethylene Glycol						
	12.836	12.835	0.001	396972	40.0	7.72	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

SG_GLY_ISTD_00099	Amount Added:	10.00	Units: uL	Run Reagent

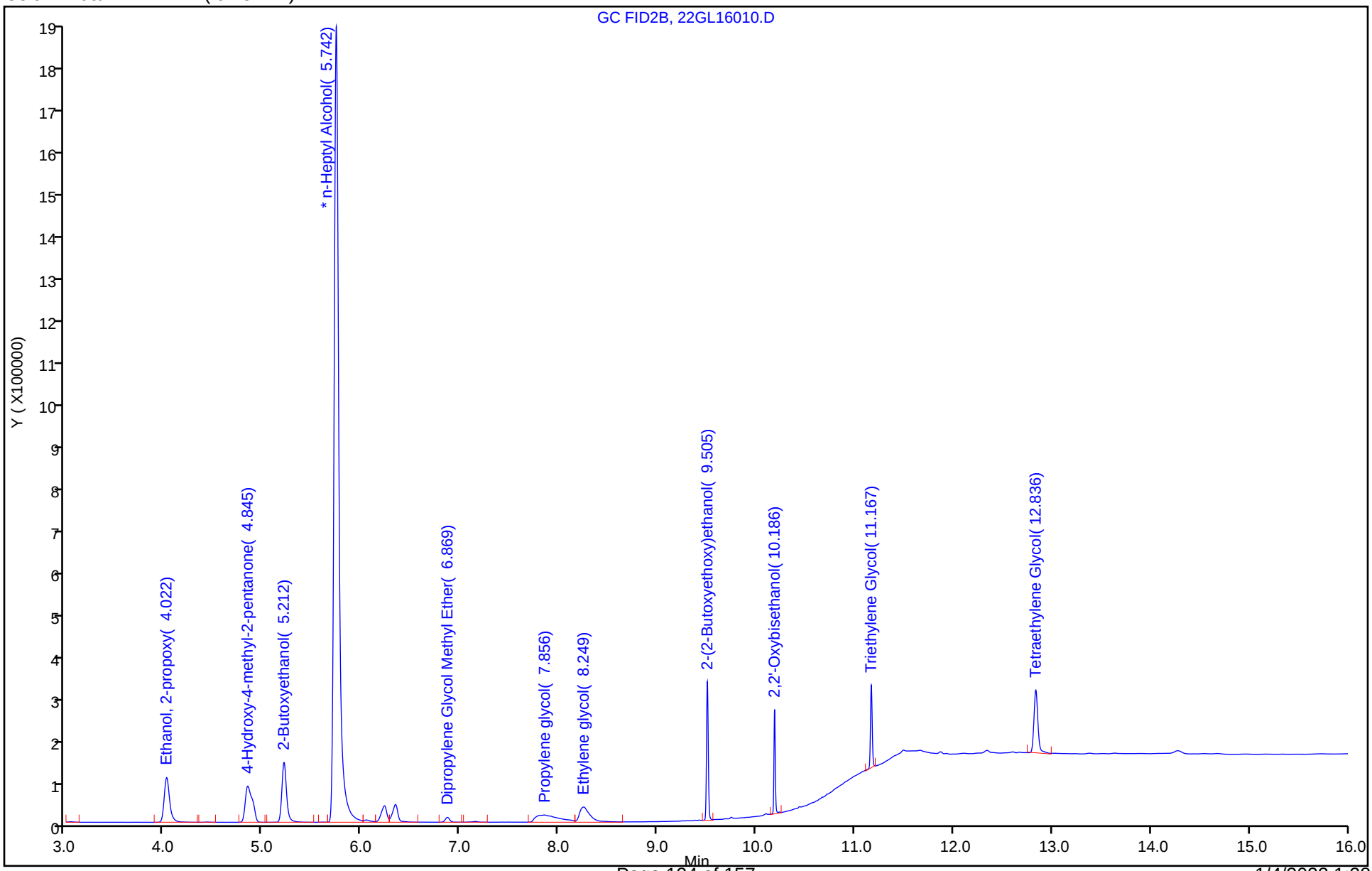
Report Date: 17-Dec-2022 11:05:39 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16010.D

Injection Date:	16-Dec-2022 19:23:34	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	LCSD 680-755493/3-A			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)



1/4/2023 1:28 PM

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah | Job No.: 580-121097-1

SDG No.:

Client Sample ID: ADIT6-DU02-SON02MI-22DEC MS | Lab Sample ID: 580-121097-4 MS

Matrix: Solid (Soluble) | Lab File ID: 22GL16025.D

Analysis Method: 8015C GLY | Date Collected: 12/07/2022 12:55

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 12/17/2022 01:01

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

Injection Volume: 1(uL) | GC Column: J&W DB WAX ID: 0.45(mm)

% Moisture: 14.3 % Solids: 85.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 755535 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	30.5	J1	8.2	2.5	1.0

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16025.D
Lims ID: 580-121097-A-4-G MS
Client ID: ADIT6-DU02-SON02MI-22DEC
Sample Type: MS
Inject. Date: 17-Dec-2022 01:01:40 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0082779-025
Operator ID: Instrument ID: CVGG2

Method: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 17-Dec-2022 10:58:31 Calib Date: 15-Dec-2022 15:34:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host: CTX1633

First Level Reviewer: SWK1 Date: 17-Dec-2022 10:58:49

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 n-Heptyl Alcohol						
5.744	5.738	0.006	7877128	50.0	50.0	
8 2-(2-Butoxyethoxy)ethanol						
9.504	9.504	0.000	1457720	6.67	18.6	

QC Flag Legend

Processing Flags

Reagents:

SG_GLY_ISTD_00099 Amount Added: 10.00 Units: uL Run Reagent

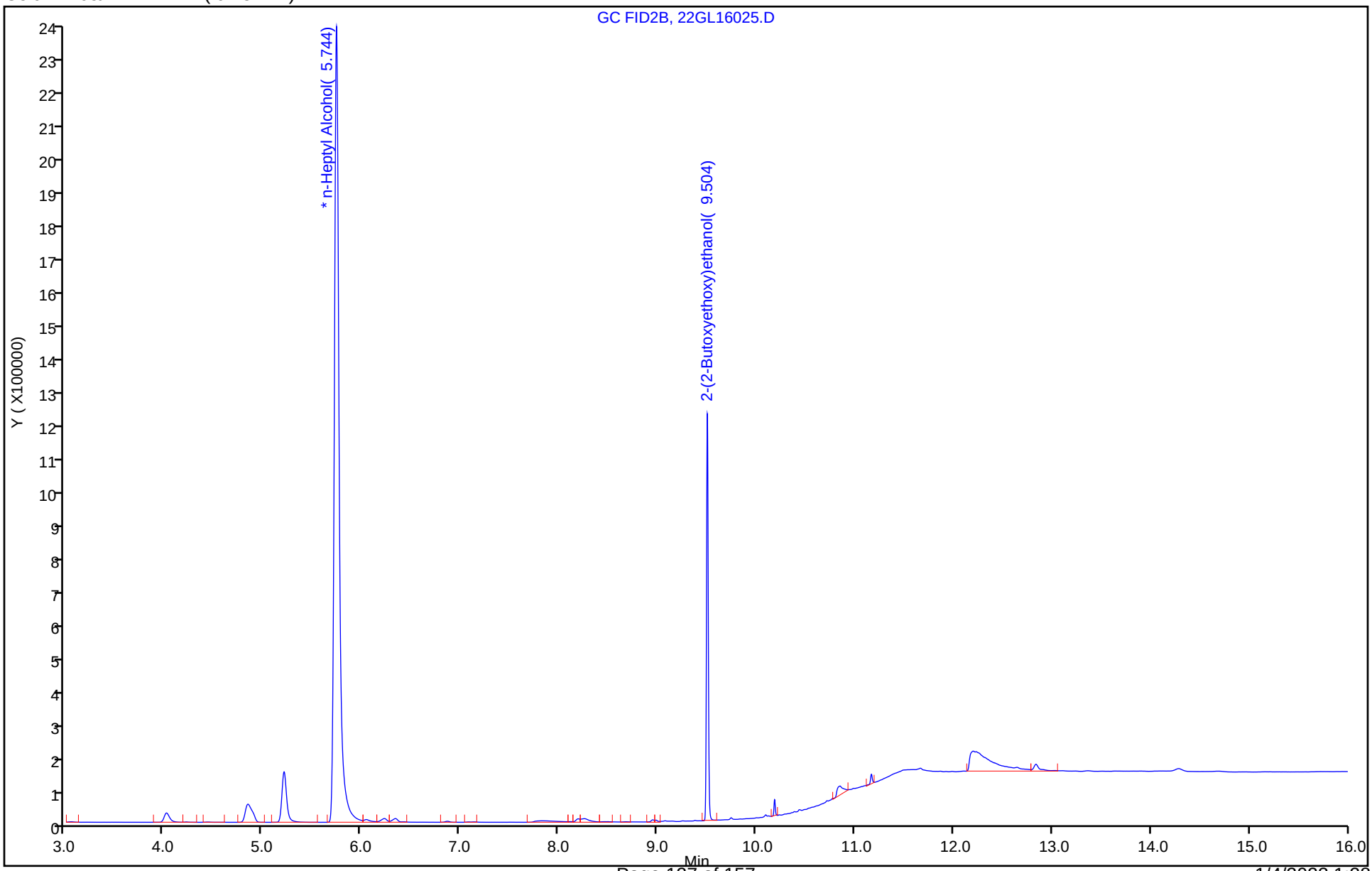
Report Date: 17-Dec-2022 11:05:38 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16025.D

Injection Date:	17-Dec-2022 01:01:40	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	580-121097-A-4-G MS			Worklist Smp#:	25
Client ID:	ADIT6-DU02-SON02MI-22DEC				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)



1/4/2023 1:28 PM

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah | Job No.: 580-121097-1

SDG No.:

Client Sample ID: ADIT6-DU02-SON02MI-22DEC MSD | Lab Sample ID: 580-121097-4 MSD

Matrix: Solid (Soluble) | Lab File ID: 22GL16026.D

Analysis Method: 8015C GLY | Date Collected: 12/07/2022 12:55

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 12/17/2022 01:24

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

Injection Volume: 1(uL) | GC Column: J&W DB WAX ID: 0.45(mm)

% Moisture: 15.1 % Solids: 84.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 755535 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	36.4	J1	8.3	2.5	1.0

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16026.D
Lims ID: 580-121097-A-4-H MSD
Client ID: ADIT6-DU02-SON02MI-22DEC
Sample Type: MSD
Inject. Date: 17-Dec-2022 01:24:09 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0082779-026
Operator ID: Instrument ID: CVGG2

Method: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 17-Dec-2022 10:58:31 Calib Date: 15-Dec-2022 15:34:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host: CTX1633

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 n-Heptyl Alcohol						
5.742	5.738	0.004	7931358	50.0	50.0	
8 2-(2-Butoxyethoxy)ethanol						
9.505	9.504	0.001	1729728	6.67	22.0	

Reagents:

SG_GLY_ISTD_00099 Amount Added: 10.00 Units: uL Run Reagent

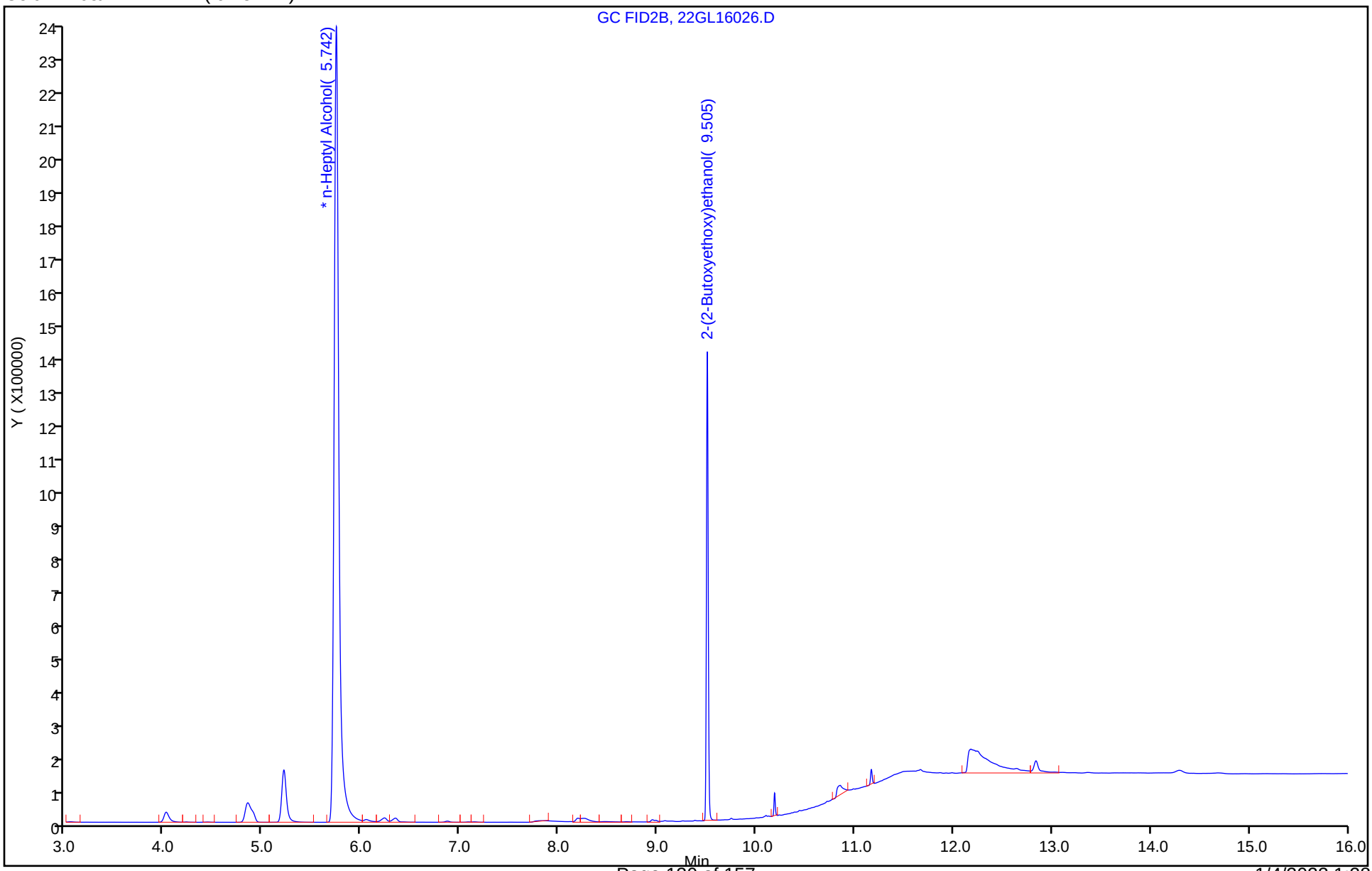
Report Date: 17-Dec-2022 11:05:39 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16026.D

Injection Date:	17-Dec-2022 01:24:09	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	580-121097-A-4-H MSD			Worklist Smp#:	26
Client ID:	ADIT6-DU02-SON02MI-22DEC				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)



1/4/2023 1:28 PM

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah | Job No.: 580-121097-1

SDG No.:

Client Sample ID: ADIT6-DU02-SON02MI-22DEC DU | Lab Sample ID: 580-121097-4 DU

Matrix: Solid (Soluble) | Lab File ID: 22GL16023.D

Analysis Method: 8015C GLY | Date Collected: 12/07/2022 12:55

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 12/17/2022 00:16

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

Injection Volume: 1(uL) | GC Column: J&W DB WAX ID: 0.45(mm)

% Moisture: 14.7 % Solids: 85.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 755535 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	25.8		8.1	2.4	1.0

Eurofins Savannah
Target Compound Quantitation Report

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16023.D				
Lims ID:	580-121097-B-4-A DU				
Client ID:	ADIT6-DU02-SON02MI-22DEC				
Sample Type:	DU				
Inject. Date:	17-Dec-2022 00:16:35	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0082779-023				
Operator ID:		Instrument ID:	CVGG2		
Method:	\\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015_GLY_VGG.m				
Limit Group:	8015C_DAI				
Last Update:	17-Dec-2022 10:58:31	Calib Date:	15-Dec-2022 15:34:13		
Integrator:	Falcon				
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D				
Column 1 :	J&W DB WAX (0.45 mm)		Det: GC FID2B		
Process Host:	CTX1633				

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
*	4 n-Heptyl Alcohol						
	5.743	5.738	0.005	7723203	50.0	50.0	
8	2-(2-Butoxyethoxy)ethanol						
	9.505	9.504	0.001	1217100		15.9	

Reagents:

SG_GLY_ISTD_00099 Amount Added: 10.00 Units: uL Run Reagent

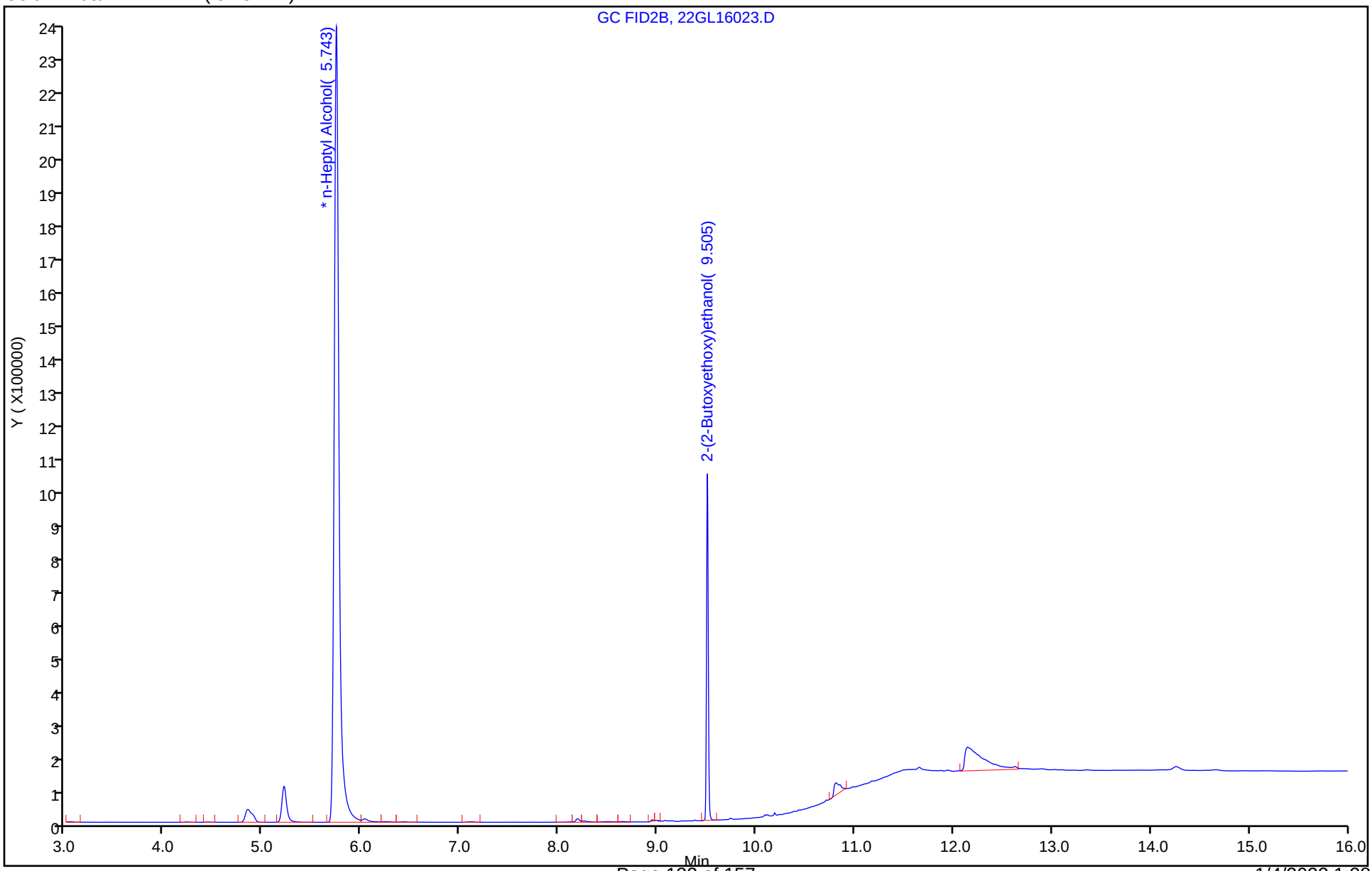
Report Date: 17-Dec-2022 11:05:38 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16023.D

Injection Date:	17-Dec-2022 00:16:35	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	580-121097-B-4-A DU			Worklist Smp#:	23
Client ID:	ADIT6-DU02-SON02MI-22DEC				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)



1/4/2023 1:28 PM

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah | Job No.: 580-121097-1

SDG No.:

Client Sample ID: ADIT6-DU02-SON02MI-22DEC TRL | Lab Sample ID: 580-121097-4 TRL

Matrix: Solid (Soluble) | Lab File ID: 22GL16024.D

Analysis Method: 8015C GLY | Date Collected: 12/07/2022 12:55

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 12/17/2022 00:39

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

Injection Volume: 1(uL) | GC Column: J&W DB WAX ID: 0.45(mm)

% Moisture: 15.3 % Solids: 84.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 755535 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	48.4		8.2	2.5	1.0

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16024.D
Lims ID: 580-121097-A-4-F TRL
Client ID: ADIT6-DU02-SON02MI-22DEC
Sample Type: TRL
Inject. Date: 17-Dec-2022 00:39:04 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0082779-024
Operator ID: Instrument ID: CVGG2

Method: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 17-Dec-2022 10:58:31 Calib Date: 15-Dec-2022 15:34:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host: CTX1633

First Level Reviewer: SWK1 Date: 17-Dec-2022 10:58:31

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
2	4-Hydroxy-4-methyl-2-pentanone						
	4.845	4.839	0.006	137988		1.65	
3	2-Butoxyethanol						
	5.212	5.206	0.006	294930		3.42	
* 4	n-Heptyl Alcohol						
	5.743	5.738	0.005	7699333	50.0	50.0	
7	Ethylene glycol						7
	8.266	8.243	0.023	10053		0.1969	7
LOD =	0.6600						
8	2-(2-Butoxyethoxy)ethanol						
	9.505	9.504	0.001	2263115		29.6	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

SG_GLY_ISTD_00099 Amount Added: 10.00 Units: uL Run Reagent

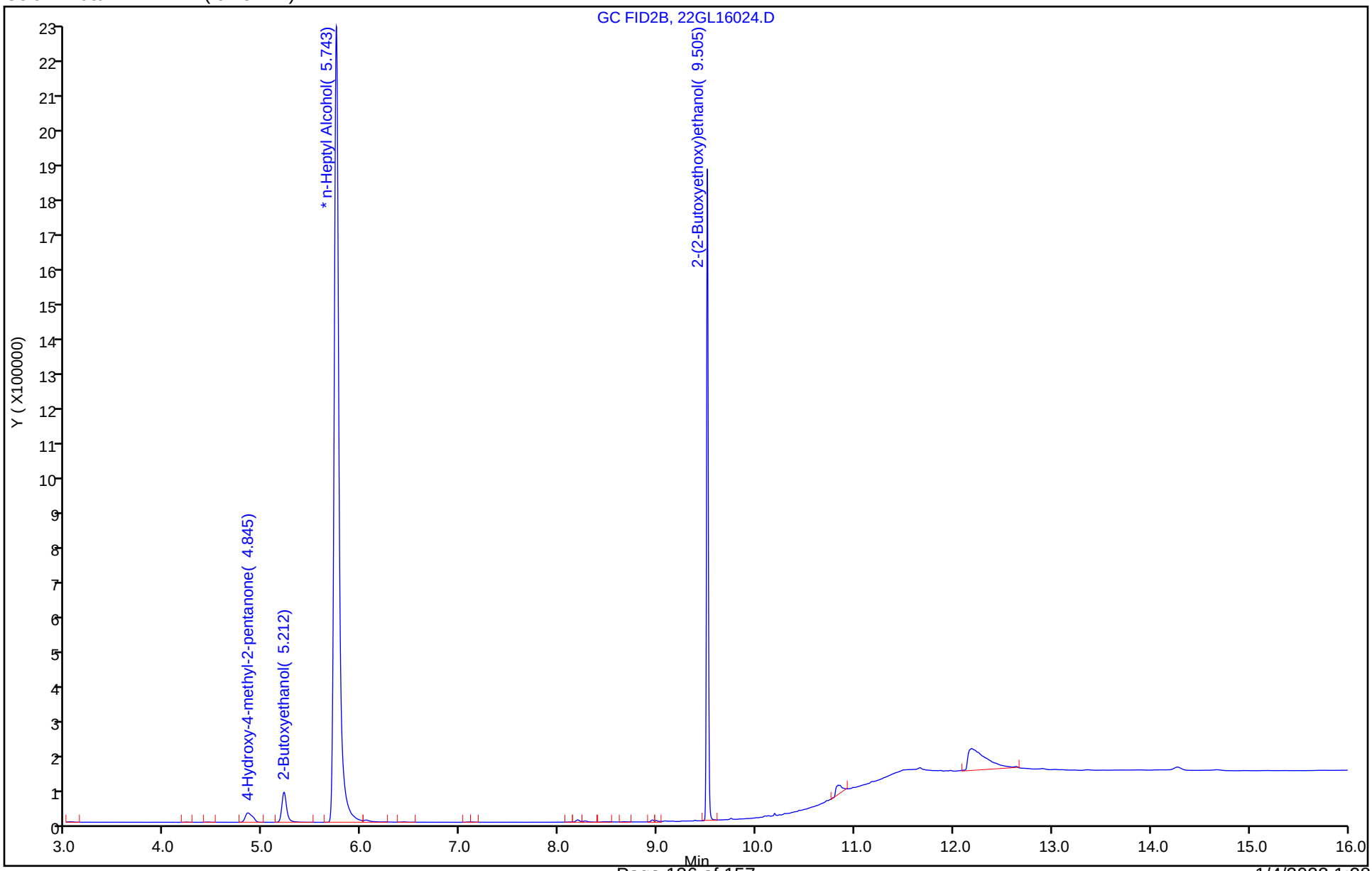
Report Date: 17-Dec-2022 11:05:38 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16024.D

Injection Date:	17-Dec-2022 00:39:04	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	580-121097-A-4-F TRL			Worklist Smp#:	24
Client ID:	ADIT6-DU02-SON02MI-22DEC				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)



1/4/2023 1:28 PM

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Instrument ID: CVGG2 Start Date: 12/15/2022 13:40

Analysis Batch Number: 755296 End Date: 12/16/2022 01:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 680-755296/7		12/15/2022 13:40	1	22GL15007.D	J&W DB WAX 0.45(mm)
IC 680-755296/8		12/15/2022 14:03	1	22GL15008.D	J&W DB WAX 0.45(mm)
IC 680-755296/9		12/15/2022 14:26	1	22GL15009.D	J&W DB WAX 0.45(mm)
ICIS 680-755296/10		12/15/2022 14:48	1	22GL15010.D	J&W DB WAX 0.45(mm)
IC 680-755296/11		12/15/2022 15:11	1	22GL15011.D	J&W DB WAX 0.45(mm)
IC 680-755296/12		12/15/2022 15:34	1	22GL15012.D	J&W DB WAX 0.45(mm)
ICV 680-755296/13 CCV		12/15/2022 15:56	1	22GL15013.D	J&W DB WAX 0.45(mm)
ZZZZZ		12/15/2022 16:19	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/15/2022 16:42	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/15/2022 18:00	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/15/2022 18:23	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/15/2022 19:31	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/15/2022 19:53	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/15/2022 20:16	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/15/2022 20:39	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/15/2022 21:01	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/15/2022 21:24	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/15/2022 21:46	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/15/2022 22:09	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/15/2022 22:31	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/15/2022 22:54	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/15/2022 23:17	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/15/2022 23:39	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/16/2022 00:02	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/16/2022 00:25	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/16/2022 00:47	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/16/2022 01:10	1		J&W DB WAX 0.45(mm)
CCV 680-755296/39		12/16/2022 01:55	1		J&W DB WAX 0.45(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Instrument ID: CVGG2 Start Date: 12/16/2022 17:20

Analysis Batch Number: 755535 End Date: 12/17/2022 02:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 680-755535/5		12/16/2022 17:20	1	22GL16005.D	J&W DB WAX 0.45(mm)
ZZZZZ		12/16/2022 17:42	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/16/2022 18:05	1		J&W DB WAX 0.45(mm)
LCS 680-755493/2-A		12/16/2022 19:00	1	22GL16009.D	J&W DB WAX 0.45(mm)
LCSD 680-755493/3-A		12/16/2022 19:23	1	22GL16010.D	J&W DB WAX 0.45(mm)
ZZZZZ		12/16/2022 20:31	1		J&W DB WAX 0.45(mm)
MB 680-755493/1-A		12/16/2022 20:53	1	22GL16014.D	J&W DB WAX 0.45(mm)
ZZZZZ		12/16/2022 21:16	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/16/2022 21:38	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/16/2022 22:01	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/16/2022 22:23	1		J&W DB WAX 0.45(mm)
ZZZZZ		12/16/2022 22:46	1		J&W DB WAX 0.45(mm)
580-121097-1	ADIT6-DU01-SON02MI-22 DEC	12/16/2022 23:09	1	22GL16020.D	J&W DB WAX 0.45(mm)
580-121097-7	ADIT6-DU03-SON02MI-22 DEC	12/16/2022 23:31	1	22GL16021.D	J&W DB WAX 0.45(mm)
580-121097-4	ADIT6-DU02-SON02MI-22 DEC	12/16/2022 23:54	1	22GL16022.D	J&W DB WAX 0.45(mm)
580-121097-4 DU	ADIT6-DU02-SON02MI-22 DEC DU	12/17/2022 00:16	1	22GL16023.D	J&W DB WAX 0.45(mm)
580-121097-4 TRL	ADIT6-DU02-SON02MI-22 DEC TRL	12/17/2022 00:39	1	22GL16024.D	J&W DB WAX 0.45(mm)
580-121097-4 MS	ADIT6-DU02-SON02MI-22 DEC MS	12/17/2022 01:01	1	22GL16025.D	J&W DB WAX 0.45(mm)
580-121097-4 MSD	ADIT6-DU02-SON02MI-22 DEC MSD	12/17/2022 01:24	1	22GL16026.D	J&W DB WAX 0.45(mm)
CCV 680-755535/28		12/17/2022 02:09	1	22GL16028.D	J&W DB WAX 0.45(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Instrument ID: CVGG2 Start Date: 12/19/2022 13:45

Analysis Batch Number: 755899 End Date: 12/19/2022 15:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 680-755899/5		12/19/2022 13:45	1	22GL19005.D	J&W DB WAX 0.45(mm)
580-121097-7 DL	ADIT6-DU03-SON02MI-22 DEC DL	12/19/2022 14:53	20	22GL19008.D	J&W DB WAX 0.45(mm)
CCV 680-755899/10		12/19/2022 15:51	1	22GL19010.D	J&W DB WAX 0.45(mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Batch Number: 755296 Batch Start Date: 12/15/22 13:40 Batch Analyst: Kellar, Joshua C

Batch Method: 8015C GLY Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	SG_Gly_CAL 00047	SG_GLY_ISTD 00099	SG_GlyICV 00056		
IC 680-755296/7		8015C GLY		1 mL	50 uL	10 uL			
IC 680-755296/8		8015C GLY		1 mL	40 uL	10 uL			
IC 680-755296/9		8015C GLY		1 mL	25 uL	10 uL			
ICIS 680-755296/10		8015C GLY		1 mL	10 uL	10 uL			
IC 680-755296/11		8015C GLY		1 mL	5 uL	10 uL			
IC 680-755296/12		8015C GLY		1 mL	2.5 uL	10 uL			
ICV 680-755296/13 CCV		8015C GLY		1 mL		10 uL	10 uL		

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Batch Number: 755493 Batch Start Date: 12/16/22 12:26 Batch Analyst: Meincke, Griffin E

Batch Method: DI Leach Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	SG_GlyICV 00056			
MB 680-755493/1		DI Leach, 8015C GLY		10.25 g	10 mL				
LCS 680-755493/2		DI Leach, 8015C GLY		10.06 g	10 mL	50 uL			
LCSD 680-755493/3		DI Leach, 8015C GLY		10.06 g	10 mL	50 uL			
580-121097-C-1	ADIT6-DU01-SON02 MI-22DEC	DI Leach, 8015C GLY	S	10.46 g	15 mL				
580-121097-B-7	ADIT6-DU03-SON02 MI-22DEC	DI Leach, 8015C GLY	S	10.50 g	10 mL				
580-121097-C-4	ADIT6-DU02-SON02 MI-22DEC	DI Leach, 8015C GLY	S	10.71 g	15 mL				
580-121097-B-4 DU	ADIT6-DU02-SON02 MI-22DEC	DI Leach, 8015C GLY	S	10.82 g	15 mL				
580-121097-A-4 TRL	ADIT6-DU02-SON02 MI-22DEC	DI Leach, 8015C GLY	S	10.83 g	15 mL				
580-121097-A-4 MS	ADIT6-DU02-SON02 MI-22DEC	DI Leach, 8015C GLY	S	10.71 g	15 mL	50 uL			
580-121097-A-4 MSD	ADIT6-DU02-SON02 MI-22DEC	DI Leach, 8015C GLY	S	10.65 g	15 mL	50 uL			

Batch Notes	
Balance ID	36
Blank Matrix ID	7808152

Basis	Basis Description
S	Soluble

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Batch Number: 755535 Batch Start Date: 12/16/22 17:20 Batch Analyst: Kellar, Joshua C

Batch Method: 8015C GLY Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	SG_Gly_CAL 00047	SG_GLY_ISTD 00099			
CCV 680-755535/5		8015C GLY		1 mL	10 uL	10 uL			
LCS 680-755493/2-A		8015C GLY		1 mL		10 uL			
LCSD 680-755493/3-A		8015C GLY		1 mL		10 uL			
MB 680-755493/1-A		8015C GLY		1 mL		10 uL			
580-121097-C-1-A	ADIT6-DU01-SON02MI-22DEC	8015C GLY	S	1 mL		10 uL			
580-121097-B-7-A	ADIT6-DU03-SON02MI-22DEC	8015C GLY	S	1 mL		10 uL			
580-121097-C-4-A	ADIT6-DU02-SON02MI-22DEC	8015C GLY	S	1 mL		10 uL			
580-121097-B-4-A DU	ADIT6-DU02-SON02MI-22DEC	8015C GLY	S	1 mL		10 uL			
580-121097-A-4-F TRL	ADIT6-DU02-SON02MI-22DEC	8015C GLY	S	1 mL		10 uL			
580-121097-A-4-G MS	ADIT6-DU02-SON02MI-22DEC	8015C GLY	S	1 mL		10 uL			
580-121097-A-4-H MSD	ADIT6-DU02-SON02MI-22DEC	8015C GLY	S	1 mL		10 uL			
CCV 680-755535/28		8015C GLY		1 mL	10 uL	10 uL			

Batch Notes	

Basis	Basis Description
S	Soluble

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Batch Number: 755899 Batch Start Date: 12/19/22 13:45 Batch Analyst: Kellar, Joshua C

Batch Method: 8015C GLY Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	SG_Gly_CAL 00047	SG_GLY_ISTD 00099			
CCVIS 680-755899/5		8015C GLY		1 mL	10 uL	10 uL			
580-121097-B-7-A	ADIT6-DU03-SON02 MI-22DEC	8015C GLY	S	1 mL		10 uL			
CCV 680-755899/10		8015C GLY		1 mL	10 uL	10 uL			

Batch Notes	

Basis	Basis Description
S	Soluble

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

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Savannah Job Number: 580-121097-1

SDG No.:

Project: Red Hill - AFFF Assessment Sampling

Client Sample ID	Lab Sample ID
ADIT6-DU01-SON02MI-22DEC	580-121097-1
ADIT6-DU02-SON02MI-22DEC	580-121097-4
ADIT6-DU03-SON02MI-22DEC	580-121097-7

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Savannah Job Number: 580-121097-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture LOQ Date: 01/01/2005 13:43

Analyte	Wavelength/ Mass	LOQ (%)	
Percent Moisture		0.01	
Percent Solids		0.01	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Savannah Job Number: 580-121097-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/09/2011 17:03

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.01	
Percent Solids		0.01	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Instrument ID: NOEQUIP Analysis Method: Moisture

Start Date: 12/16/2022 14:29 End Date: 12/16/2022 14:29

Lab Sample Id	D/F	Type	Time	Analytes																									
				% Sol	Moist																								
580-121097-1	1	T	14:29	X	X																								
580-121097-4 MSD	1	T	14:29	X	X																								
580-121097-4 MS	1	T	14:29	X	X																								
580-121097-4	1	T	14:29	X	X																								
580-121097-4 DU	1	T	14:29	X	X																								
580-121097-4 TRL	1	T	14:29	X	X																								
580-121097-7	1	T	14:29	X	X																								

Prep Types:
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Savannah Job No.: 580-121097-1

SDG No.:

Batch Number: 755516 Batch Start Date: 12/16/22 14:29 Batch Analyst: Faison, Karrin-Cheryl

Batch Method: Moisture Batch End Date: 12/19/22 02:38

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry	%_Moisture	%_Solid	
580-121097-B-1	ADIT6-DU01-SON02MI-22DEC	Moisture	T	1.30 g	11.45 g	10.14 g	12.9064039408867 %	87.0935960591133 %	
580-121097-B-4 MSD	ADIT6-DU02-SON02MI-22DEC	Moisture	T	1.30 g	11.92 g	10.32 g	15.0659133709981 %	84.9340866290019 %	
580-121097-B-4 MS	ADIT6-DU02-SON02MI-22DEC	Moisture	T	1.31 g	11.75 g	10.26 g	14.272030651341 %	85.727969348659 %	
580-121097-B-4	ADIT6-DU02-SON02MI-22DEC	Moisture	T	1.31 g	11.94 g	10.24 g	15.9924741298213 %	84.0075258701787 %	
580-121097-A-4 DU	ADIT6-DU02-SON02MI-22DEC	Moisture	T	1.30 g	11.79 g	10.25 g	14.6806482364156 %	85.3193517635844 %	
580-121097-B-4 TRL	ADIT6-DU02-SON02MI-22DEC	Moisture	T	1.30 g	11.79 g	10.18 g	15.34795042898 %	84.65204957102 %	
580-121097-C-7	ADIT6-DU03-SON02MI-22DEC	Moisture	T	1.30 g	11.72 g	10.24 g	14.2034548944338 %	85.7965451055662 %	

Batch Notes	
Balance ID	35
Oven ID	CU01
Thermometer ID	CU01
Date samples were placed in the oven	12/16/2022
Time samples were place in the oven	13:40
Temperature - Start - Uncorrected	106.0 Degrees C
Oven Temp In	106.0 Degrees C
Date samples were removed from oven	12/19/2022
Time Samples were removed from oven	02:38
Temperature - End - Uncorrected	107 Degrees C
Oven Temp Out	107 Degrees C

Basis	Basis Description
T	Total/NA

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

General Chemistry Raw Data Report

Job ID: 580-121097-1

Batch: 755516
Method: Moisture

Analyst Initials: KF
Instrument: No Equipment Assigned to The Batch

Lab Sample ID: 580-121097-B-1

Analysis Date: Dec 16, 2022 14:29

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	12.9064039408867	%
Percent Solids	None	1	87.0935960591133	%

Lab Sample ID: 580-121097-B-4 MSD

Analysis Date: Dec 16, 2022 14:29

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	15.0659133709981	%
Percent Solids	None	1	84.9340866290019	%

Lab Sample ID: 580-121097-B-4 MS

Analysis Date: Dec 16, 2022 14:29

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	14.272030651341	%
Percent Solids	None	1	85.727969348659	%

Lab Sample ID: 580-121097-B-4

Analysis Date: Dec 16, 2022 14:29

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	15.9924741298213	%
Percent Solids	None	1	84.0075258701787	%

Lab Sample ID: 580-121097-A-4 DU

Analysis Date: Dec 16, 2022 14:29

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	14.6806482364156	%
Percent Solids	None	1	85.3193517635844	%

Lab Sample ID: 580-121097-B-4 TRL

Analysis Date: Dec 16, 2022 14:29

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	15.34795042898	%
Percent Solids	None	1	84.65204957102	%

Lab Sample ID: 580-121097-C-7

Analysis Date: Dec 16, 2022 14:29

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	14.2034548944338	%
Percent Solids	None	1	85.7965451055662	%

Subcontract Data

Shipping and Receiving Documents

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: George Sauer	Lab PM: Elaine Walker	Carrier Tracking No(s): FedEx	COC No: 2212W1EU-05
Client Contact: Watson Tanji	Phone: 808 954 4512	E-Mail: M.Elaine.Walker@EurofinsET.com	State of Origin: Hawaii	Page: Page 1 of 1
Company: AECOM	PWSID:			Job #:
Address: 1001 Bishop St. Suite 1600	Due Date Requested: see subcontract			
City: Honolulu	TAT Requested (days): Rush - ASAP			
State, Zip: Hawaii 96813	Compliance Project: \ Yes \ No			
Phone: 808-954-4512	PO #:			
Email: Watson Tanji (watson.tanji@aecom.com)	WO #:			
Project Name: N6274223F0104	Project #: 60697810			
Site: RHSF	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Wwater, Ssolid, Oowaste/oil, BTe Tissue, AeAir)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_DAI_GL_D5/ 2-(2butoxyethoxy)-ethanol	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
ADIT6-DU01-SON02MI-22DEC	12/7/22	1240	G	S	N	N	x	1	
ADIT6-DU02-SON02MI-22DEC	12/7/22	1255	G	S	N	N	x	1	
ADIT6-DU03-SON02MI-22DEC	12/7/22	1350	G	S	N	N	x	1	

580-121097 Chain of Custody

Possible Hazard Identification
Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EQuIS EDD.

Special Instructions/QC Requirements: DOD QSM project.

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	12/7/22 1510	AECOM	Alex Edmonds	12/7/22 1510	AECOM
Alex Edmonds	12/8/22 1440	AECOM	[illegible]	12/9/22 0905	EETA

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: A3 0.5/0.4

Ver: 01/16/2019

USDA United States Department of Agriculture

United States Department of Agriculture
Animal and Plant Health Inspection Service
Plant Protection & Quarantine
4700 River Road
Riverdale, MD 20737

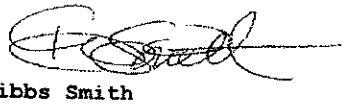
Permit to Receive Soil
Regulated by 7 CFR 330

This permit was generated electronically via the ePermits system.

PERMITTEE NAME:	Justin Mckell	**PERMIT NUMBER:**	P330-22-00078
COMPANY:	Eurofins Environment Testing Northwest	**APPLICATION NUMBER:**	P525-220525-003
ADDRESS:	5755 8th St E Fife, WA 98424	**DATE ISSUED:**	07/14/2022
MAILING ADDRESS:	5755 8th St E Fife, WA 98424	**EXPIRES:**	12/31/2022
PHONE:	(253) 248-4969	**HAND CARRY:**	No
ALT. PHONE:	253-217-6363	**FACILITY NUMBER:**	6348
EMAIL:	justin.mckell@et.eurofinsus.com	**FACILITY ACCOUNT:**	TestAmerica Lab(s), Inc.
FAX:		**RESEARCH CENTER:**	
		FACILITY NAME:	Eurofins Environment Testing Northwest
		FACILITY ADDRESS:	5755 8th Street East Tacoma, Washington 98424
		FACILITY GPS:	
		MAIL ADDRESS:	5755 8th Street East Tacoma, Washington 98424
		FACILITY CONTACT:	Justin Mckell
		PHONE:	253-248-4969
		ALT. PHONE:	
		FAX:	
		EMAIL:	justin.mckell@et.eurofinsus.com

PORTS OF ARRIVAL/PLANT INSPECTION STATIONS: AK, Anchorage; AL, Huntsville; AL, Mobile; AZ, Douglas; AZ, Lukeville; AZ, Naco; AZ, Nogales; AZ, Phoenix; AZ, San Luis; AZ, Tucson; CA, Calexico; CA, El Segundo; CA, Fresno; CA, Long Beach; CA, Oakland; CA, Ontario; CA, Otay Mesa; CA, Port Hueneme; CA, Sacramento; CA, San Diego; CA, San Jose; CA, San Ysidro; CA, South San Francisco; CA, Tecate; CO, Denver; CT, Hartford; CT, New Haven; DE, Dover; DE, Wilmington; FL, Ft. Lauderdale; FL, Ft. Myers; FL, Ft. Pierce; FL, Jacksonville; FL, Key West; FL, Miami; FL, Miami (Cargo, DHL, Fed Ex, UPS, etc); FL, Orlando; FL, Pensacola; FL, Port Canaveral; FL, Port Everglades; FL, Sanford; FL, Tampa; FL, West Palm Beach; GA, Atlanta; GA, Savannah; GU, Agana; HI, Hilo; HI, Honolulu; HI, Kahului; HI, Kailua-Kona; HI, Lihue; ID, Eastport; IL, Chicago; IN, Indianapolis; KY, Louisville; MA, South Boston; MD, Baltimore; MD, Laurel; ME, Bangor; ME, Calais; ME, Houlton; ME, Portland; MI, Detroit; MI, Port Huron; MI, Romulus; MI, Sault Saint Marie; MN, Duluth; MN, Grand Portage; MN, International Falls; MN, Minneapolis; MO, Kansas City; MO, St. Louis; MP, Commonwealth of the Northern Mariana Islands; MS, Gulfport; MS, Port Bienville; MT, Raymond; MT, Roosville; MT, Sweetgrass; NC, Raleigh; NC, Wilmington; ND, Dunseith; ND, Pembina; ND, Portal; NJ, Linden; NM, Albuquerque; NM, Columbus; NM, SantaTeresa; NV, Las Vegas; NY, Albany; NY, Alexandria Bay; NY, Brooklyn; NY, Buffalo; NY, Champlain; NY, Jamaica; NY, Newburgh; NY, Rouses Point; OH, Ashtabula; OH, Cincinnati; OH, Cleveland; OH, Columbus; OH, Toledo; OH, Wilmington; OK, Oklahoma City; OR, Portland; PA, Allentown; PA, Harrisburg; PA, Philadelphia; PA, Pittsburgh; PA, Scranton; PR, Aguadilla; PR,

Permit Number P330-22-00078

THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING PPQ HEADQUARTER OFFICIAL VIA EPERMITS.  Gibbs Smith	DATE 07/14/2022

WARNING: Any alteration, forgery or unauthorized use of this Federal Form is subject to civil penalties of up to $250,000 (7 U.S.C.s 7734(b)) or punishable by a fine of not more than $10,000, or imprisonment of not more than 5 years, or both (18 U.S.C.s 1001)

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-121097-1

Login Number: 121097
List Number: 1
Creator: Groves, Elizabeth

List Source: Eurofins Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-121097-1

Login Number: 121097
List Number: 2
Creator: Givens, Keshia

List Source: Eurofins Savannah
List Creation: 12/14/22 12:25 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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.	N/A	Some samples did not have any labels.
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-121097-1

Login Number: 121097
List Number: 3
Creator: Johnson, Corey M

List Source: Eurofins Savannah
List Creation: 12/16/22 09:52 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	