

 **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

580-125072-1

Eurofins Seattle

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



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Authorized for release by
Marie E Walker, Senior Project Manager
M.Elaine.Walker@et.eurofinsus.com
253 248-4972

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Definitions/Glossary

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-125072-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

Glossary

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

CASE NARRATIVE
Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-125072-1

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.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs 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

Five samples were received on 3/22/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.5° 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 AF-RHMW04-WGN01LF-2303W3 (580-125072-1), AF-RHMW06-WGN01LF-2303W3 (580-125072-2), AF-RHMW16-WGN01LF-2303W3 (580-125072-3), AF-RHMW12A-WGN01LF-2303W3 (580-125072-4) and AF-RHMW12A-WGFD01LF-2303W3 (580-125072-5) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 03/26/2023.

The closing continuing calibration verification (CCV) associated with batch 680-769675 recovered above the upper control limit for 2-(2-Butoxyethoxy)ethanol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 680-769675/26).

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

Detection Summary

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-125072-1

Client Sample ID: AF-RHMW04-WGN01LF-2303W3

Lab Sample ID: 580-125072-1

No Detections.

Client Sample ID: AF-RHMW06-WGN01LF-2303W3

Lab Sample ID: 580-125072-2

No Detections.

Client Sample ID: AF-RHMW16-WGN01LF-2303W3

Lab Sample ID: 580-125072-3

No Detections.

Client Sample ID: AF-RHMW12A-WGN01LF-2303W3

Lab Sample ID: 580-125072-4

No Detections.

Client Sample ID: AF-RHMW12A-WGFD01LF-2303W3

Lab Sample ID: 580-125072-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-125072-1

Client Sample ID: AF-RHMW04-WGN01LF-2303W3

Lab Sample ID: 580-125072-1

Date Collected: 03/20/23 10:20

Matrix: Water

Date Received: 03/22/23 10:30

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M Q	5.0	1.1	mg/L			03/26/23 17:20	1

Client Sample ID: AF-RHMW06-WGN01LF-2303W3

Lab Sample ID: 580-125072-2

Date Collected: 03/20/23 12:10

Matrix: Water

Date Received: 03/22/23 10:30

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M Q	5.0	1.1	mg/L			03/26/23 17:44	1

Client Sample ID: AF-RHMW16-WGN01LF-2303W3

Lab Sample ID: 580-125072-3

Date Collected: 03/20/23 12:00

Matrix: Water

Date Received: 03/22/23 10:30

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M Q	5.0	1.1	mg/L			03/26/23 18:54	1

Client Sample ID: AF-RHMW12A-WGN01LF-2303W3

Lab Sample ID: 580-125072-4

Date Collected: 03/20/23 09:30

Matrix: Water

Date Received: 03/22/23 10:30

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U Q	5.0	1.1	mg/L			03/26/23 19:17	1

Client Sample ID: AF-RHMW12A-WGFD01LF-2303W3

Lab Sample ID: 580-125072-5

Date Collected: 03/20/23 09:30

Matrix: Water

Date Received: 03/22/23 10:30

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M Q	5.0	1.1	mg/L			03/26/23 19:41	1

Default Detection Limits

Client: AECOM

Job ID: 580-125072-1

Project/Site: Red Hill - AFFF Assessment Sampling

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

Analyte	LOQ	DL	Units
2-(2-Butoxyethoxy)ethanol	5.0	1.1	mg/L

QC Sample Results

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-125072-1

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

Lab Sample ID: MB 680-769675/10
Matrix: Water
Analysis Batch: 769675

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	1.1	mg/L			03/26/23 14:36	1

Lab Sample ID: LCS 680-769675/6
Matrix: Water
Analysis Batch: 769675

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-(2-Butoxyethoxy)ethanol	20.0	19.8		mg/L		99	50 - 150

Lab Sample ID: LCSD 680-769675/7
Matrix: Water
Analysis Batch: 769675

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	20.0	19.5		mg/L		97	50 - 150	2	50

Lab Sample ID: 580-125072-2 MS
Matrix: Water
Analysis Batch: 769675

Client Sample ID: AF-RHMW06-WGN01LF-2303W3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-(2-Butoxyethoxy)ethanol	3.0	U M Q	20.0	21.3		mg/L		107	50 - 150

Lab Sample ID: 580-125072-2 MSD
Matrix: Water
Analysis Batch: 769675

Client Sample ID: AF-RHMW06-WGN01LF-2303W3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	3.0	U M Q	20.0	20.4		mg/L		102	50 - 150	4	50

QC Association Summary

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-125072-1

GC Semi VOA

Analysis Batch: 769675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-125072-1	AF-RHMW04-WGN01LF-2303W3	Total/NA	Water	8015C GLY	
580-125072-2	AF-RHMW06-WGN01LF-2303W3	Total/NA	Water	8015C GLY	
580-125072-3	AF-RHMW16-WGN01LF-2303W3	Total/NA	Water	8015C GLY	
580-125072-4	AF-RHMW12A-WGN01LF-2303W3	Total/NA	Water	8015C GLY	
580-125072-5	AF-RHMW12A-WGFD01LF-2303W3	Total/NA	Water	8015C GLY	
MB 680-769675/10	Method Blank	Total/NA	Water	8015C GLY	
LCS 680-769675/6	Lab Control Sample	Total/NA	Water	8015C GLY	
LCSD 680-769675/7	Lab Control Sample Dup	Total/NA	Water	8015C GLY	
580-125072-2 MS	AF-RHMW06-WGN01LF-2303W3	Total/NA	Water	8015C GLY	
580-125072-2 MSD	AF-RHMW06-WGN01LF-2303W3	Total/NA	Water	8015C GLY	

Lab Chronicle

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-125072-1

Client Sample ID: AF-RHMW04-WGN01LF-2303W3

Lab Sample ID: 580-125072-1

Date Collected: 03/20/23 10:20

Matrix: Water

Date Received: 03/22/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	769675	JCK	EET SAV	03/26/23 17:20

Client Sample ID: AF-RHMW06-WGN01LF-2303W3

Lab Sample ID: 580-125072-2

Date Collected: 03/20/23 12:10

Matrix: Water

Date Received: 03/22/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	769675	JCK	EET SAV	03/26/23 17:44

Client Sample ID: AF-RHMW16-WGN01LF-2303W3

Lab Sample ID: 580-125072-3

Date Collected: 03/20/23 12:00

Matrix: Water

Date Received: 03/22/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	769675	JCK	EET SAV	03/26/23 18:54

Client Sample ID: AF-RHMW12A-WGN01LF-2303W3

Lab Sample ID: 580-125072-4

Date Collected: 03/20/23 09:30

Matrix: Water

Date Received: 03/22/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	769675	JCK	EET SAV	03/26/23 19:17

Client Sample ID: AF-RHMW12A-WGFD01LF-2303W3

Lab Sample ID: 580-125072-5

Date Collected: 03/20/23 09:30

Matrix: Water

Date Received: 03/22/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	769675	JCK	EET SAV	03/26/23 19:41

Laboratory References:

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

Accreditation/Certification Summary

Client: AECOM

Job ID: 580-125072-1

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.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
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.

<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
8015C GLY		Water	2-(2-Butoxyethoxy)ethanol

Method Summary

Client: AECOM

Job ID: 580-125072-1

Project/Site: Red Hill - AFFF Assessment Sampling

Method	Method Description	Protocol	Laboratory
8015C GLY	Glycols- Direct Injection (GC/FID)	SW846	EET SAV

Protocol References:

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: 580-125072-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-125072-1	AF-RHMW04-WGN01LF-2303W3	Water	03/20/23 10:20	03/22/23 10:30
580-125072-2	AF-RHMW06-WGN01LF-2303W3	Water	03/20/23 12:10	03/22/23 10:30
580-125072-3	AF-RHMW16-WGN01LF-2303W3	Water	03/20/23 12:00	03/22/23 10:30
580-125072-4	AF-RHMW12A-WGN01LF-2303W3	Water	03/20/23 09:30	03/22/23 10:30
580-125072-5	AF-RHMW12A-WGFD01LF-2303W3	Water	03/20/23 09:30	03/22/23 10:30

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-125072-1

SDG No.: _____

Instrument ID: CVGG2 Analysis Batch Number: 769242

Lab Sample ID: IC 680-769242/5 Client Sample ID: _____

Date Analyzed: 03/23/23 12:11 Lab File ID: GC23005.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	6.33	Baseline Smoothing	SWK1	03/24/23 13:00
Ethylene glycol	6.55	Baseline Smoothing	SWK1	03/24/23 13:00

Lab Sample ID: IC 680-769242/6 Client Sample ID: _____

Date Analyzed: 03/23/23 12:34 Lab File ID: GC23006.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	6.33	Baseline Smoothing	SWK1	03/24/23 13:00
Ethylene glycol	6.56	Baseline Smoothing	SWK1	03/24/23 13:00

Lab Sample ID: IC 680-769242/7 Client Sample ID: _____

Date Analyzed: 03/23/23 12:58 Lab File ID: GC23007.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	6.34	Baseline Smoothing	SWK1	03/24/23 13:00
Ethylene glycol	6.56	Baseline Smoothing	SWK1	03/24/23 13:00

Lab Sample ID: ICIS 680-769242/8 Client Sample ID: _____

Date Analyzed: 03/23/23 13:21 Lab File ID: GC23008.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	6.33	Baseline Smoothing	SWK1	03/24/23 13:01
Ethylene glycol	6.56	Baseline Smoothing	SWK1	03/24/23 13:01

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-125072-1

SDG No.: _____

Instrument ID: CVGG2 Analysis Batch Number: 769242

Lab Sample ID: IC 680-769242/9 Client Sample ID: _____

Date Analyzed: 03/23/23 13:44 Lab File ID: GC23009.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	6.34	Baseline Smoothing	SWK1	03/24/23 13:01
Ethylene glycol	6.56	Baseline Smoothing	SWK1	03/24/23 13:01

Lab Sample ID: IC 680-769242/10 Client Sample ID: _____

Date Analyzed: 03/23/23 14:08 Lab File ID: GC23010.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	6.34	Baseline Smoothing	SWK1	03/24/23 13:01
Ethylene glycol	6.56	Baseline Smoothing	SWK1	03/24/23 13:01

Lab Sample ID: IC 680-769242/11 Client Sample ID: _____

Date Analyzed: 03/23/23 14:31 Lab File ID: GC23011.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	6.33	Baseline Smoothing	SWK1	03/24/23 13:01
Ethylene glycol	6.55	Baseline Smoothing	SWK1	03/24/23 13:01

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-125072-1

SDG No.: _____

Instrument ID: CVGG2 Analysis Batch Number: 769675

Lab Sample ID: MB 680-769675/10 Client Sample ID: _____

Date Analyzed: 03/26/23 14:36 Lab File ID: GC26010.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SWK1	03/27/23 11:55

Lab Sample ID: 580-125072-1 Client Sample ID: AF-RHMW04-WGN01LF-2303W3

Date Analyzed: 03/26/23 17:20 Lab File ID: GC26017.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SWK1	03/27/23 11:56

Lab Sample ID: 580-125072-2 Client Sample ID: AF-RHMW06-WGN01LF-2303W3

Date Analyzed: 03/26/23 17:44 Lab File ID: GC26018.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SWK1	03/27/23 11:56

Lab Sample ID: 580-125072-3 Client Sample ID: AF-RHMW16-WGN01LF-2303W3

Date Analyzed: 03/26/23 18:54 Lab File ID: GC26021.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SWK1	03/27/23 11:56

Lab Sample ID: 580-125072-5 Client Sample ID: AF-RHMW12A-WGFD01LF-2303W3

Date Analyzed: 03/26/23 19:41 Lab File ID: GC26023.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SWK1	03/27/23 11:56

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-125072-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SG_Gly_CAL_00048	05/21/23		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
SG_GLY_ISTD_00106	05/22/23		Agilent, Lot 0006720623			(Purchased Reagent)	n-Heptyl Alcohol	5000 ug/mL
SG_GlyICV_00055	08/21/23		o2si, Lot 454407			(Purchased Reagent)	2-(2-Butoxyethoxy)ethanol	2000 ug/mL

Reagent

SG_Gly_CAL_00048



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



ISO 17034 Accredited
Reference Material Producer
Cert. No. 3031.02

Rev 0

Certificate of Analysis

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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.

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Neat Material Lot No.</u>	<u>Concentration</u>
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:

Certificate of Analysis

Page 2 of 3

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

$u_c = (u_{\text{char}}^2 + u_{\text{tran}}^2 + u_{\text{homo}}^2 + u_{\text{ls}}^2)^{1/2}$ 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:

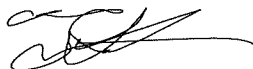


Brian Stokes

3 -May-2022

Production Chemist I

Certified By:



Tyler Sherman

14 -Jun-2022

Quality Control Chemist I

Released By:



Susan Mathews

14 -Jun-2022

Quality Control Team Lead

7290B Investment Drive • North Charleston, SC 29418
Phone: 866.272.0932 • Fax: 866.509.5146 www.o2si.com

Certificate of Analysis

Catalog No. G34-120070-04

Lot No. 480919

Expiration Date 2 -May-2024

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

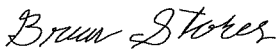
Expiration Information:

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:



Brian Stokes

3 -May-2022

Production Chemist I

Certified By:



Tyler Sherman

14 -Jun-2022

Quality Control Chemist I

7290B Investment Drive • North Charleston, SC 29418
Phone: 866.272.0932 • Fax: 866.509.5146 www.o2si.com

Released By:



Susan Mathews

14 -Jun-2022

Quality Control Team Lead

Reagent

SG_GLY_ISTD_00106

Reference Material Certificate
Product Information Sheet

Product Name: Custom Standard

Lot Number: 0006720623

Product Number: CUS-6046

Lot Issue Date: 15-Dec-2022

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

Expiration Date: 31-Jan-2025

Component Name	CERTIFIED VALUES		CAS#	Analyte Lot
	Concentration	Expanded Uncertainty		
n-heptanol	5001	± 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



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

Page: 2 of 2

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

ISO 17025

ISO 17034 Cert
No. AR-1936

Reagent

SG_GlyICV_00055



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



ISO 17034 Accredited
Reference Material Producer
Cert. No. 3031.02

Rev 0

Certificate of Analysis

Page 1 of 3

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

Page 2 of 2

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
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:

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Weights and Balance Calibration:

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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
 $u_c = (u_{\text{char}}^2 + u_{\text{tran}}^2 + u_{\text{homo}}^2 + u_{\text{its}}^2)^{1/2}$ 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:




Jared Ball

1 -Jul-2021

Production Chemist I

Certified By:



Claire Desrochers

7 -Jul-2021

Quality Control Chemist I

Released By:



Susan Mathews

8 -Jul-2021

Quality Control Team Lead

7290B Investment Drive • North Charleston, SC 29418
Phone: 866.272.0932 • Fax: 866.509.5146 www.o2si.com

Certificate of Analysis

Catalog No. G34-120070-04-SS

Lot No. 454407

Expiration Date 1-Jul-2023

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

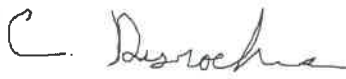
Manufactured By:



Jared Ball
1-Jul-2021

Production Chemist I

Certified By:



Claire Desrochers
7-Jul-2021

Quality Control Chemist I

Released By:



Susan Mathews
8-Jul-2021

Quality Control Team Lead

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Phone: 866.272.0932 • Fax: 866.509.5146 www.o2si.com

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.: 580-125072-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: GC26006.D
 Lab ID: LCS 680-769675/6 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
2-(2-Butoxyethoxy) ethanol	20.0	19.8	99	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.: 580-125072-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: GC26007.D
 Lab ID: LCSD 680-769675/7 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
2-(2-Butoxyethoxy) ethanol	20.0	19.5	97	2	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.: 580-125072-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: GC26019.D

Lab ID: 580-125072-2 MS Client ID: AF-RHMW06-WGN01LF-2303W3 MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
2-(2-Butoxyethoxy) ethanol	20.0	3.0 U	21.3	107	50-150	

Column to be used to flag recovery and RPD values

FORM III
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-125072-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: GC26020.D
 Lab ID: 580-125072-2 MSD Client ID: AF-RHMW06-WGN01LF-2303W3 MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
2-(2-Butoxyethoxy) ethanol	20.0	20.4	102	4	50	50-150	

Column to be used to flag recovery and RPD values
 FORM III 8015C GLY

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-125072-1
 SDG No.: _____
 Lab Sample ID: MB 680-769675/10
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) GC26010.D Lab File ID: (2) _____
 Date Analyzed: (1) 03/26/2023 14:36 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 680-769675/6	03/26/2023 13:02	
	LCSD 680-769675/7	03/26/2023 13:26	
AF-RHMW04-WGN01LF-2303W3	580-125072-1	03/26/2023 17:20	
AF-RHMW06-WGN01LF-2303W3	580-125072-2	03/26/2023 17:44	
AF-RHMW06-WGN01LF-2303W3 MS	580-125072-2 MS	03/26/2023 18:07	
AF-RHMW06-WGN01LF-2303W3 MSD	580-125072-2 MSD	03/26/2023 18:31	
AF-RHMW16-WGN01LF-2303W3	580-125072-3	03/26/2023 18:54	
AF-RHMW12A-WGN01LF-2303W 3	580-125072-4	03/26/2023 19:17	
AF-RHMW12A-WGFD01LF-2303 W3	580-125072-5	03/26/2023 19:41	

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

Lab Name: Eurofins Savannah Job No.: 580-125072-1
 SDG No.: _____
 Sample No.: ICIS 680-769242/8 Date Analyzed: 03/23/2023 13:21
 Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm)
 Lab File ID (Standard): GC23008.D Heated Purge: (Y/N) N
 Calibration ID: 90376

	nHPA		#	RT #	#	RT #
	AREA #	RT #				
INITIAL CALIBRATION MID-POINT	4560010	4.19				
UPPER LIMIT	9120020	4.69				
LOWER LIMIT	2280005	3.69				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 680-769242/12 CCV		4792859	4.19			

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.: 580-125072-1
 SDG No.: _____
 Sample No.: CCVIS 680-769675/5 Date Analyzed: 03/26/2023 12:39
 Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm)
 Lab File ID (Standard): GC26005.D Heated Purge: (Y/N) N
 Calibration ID: 90376

		nHPA					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		4630053	4.20				
UPPER LIMIT		9260106	4.70				
LOWER LIMIT		2315027	3.70				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 680-769675/6		5346556	4.20				
LCS 680-769675/7		5273924	4.20				
MB 680-769675/10		4854591	4.19				
580-125072-1	AF-RHMW04-WGN01LF-2 303W3	5758068	4.18				
580-125072-2	AF-RHMW06-WGN01LF-2 303W3	5876414	4.18				
580-125072-2 MS	AF-RHMW06-WGN01LF-2 303W3 MS	5473823	4.18				
580-125072-2 MSD	AF-RHMW06-WGN01LF-2 303W3 MSD	5843381	4.18				
580-125072-3	AF-RHMW16-WGN01LF-2 303W3	5940763	4.18				
580-125072-4	AF-RHMW12A-WGN01LF- 2303W3	5369288	4.18				
580-125072-5	AF-RHMW12A-WGFD01LF- -2303W3	5768034	4.18				
CCV 680-769675/26		5376576	4.18				

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.: 580-125072-1
 SDG No.: _____
 Client Sample ID: AF-RHMW04-WGN01LF-2303W3 Lab Sample ID: 580-125072-1
 Matrix: Water Lab File ID: GC26017.D
 Analysis Method: 8015C GLY Date Collected: 03/20/2023 10:20
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 03/26/2023 17:20
 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.: 769675 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U M Q	5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26017.D
 Lims ID: 580-125072-C-1
 Client ID: AF-RHMW04-WGN01LF-2303W3
 Sample Type: Client
 Inject. Date: 26-Mar-2023 17:20:41 ALS Bottle#: 0 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084685-017
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 27-Mar-2023 11:57:16 Calib Date: 23-Mar-2023 14:31:34
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1671

First Level Reviewer: SK9U Date: 26-Mar-2023 19:17:08

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
--------------	------------------	------------------	----------	--------------------	-------

* 4 n-Heptyl Alcohol
 4.184 4.178 0.006 5758068 50.0

QC Flag Legend

Processing Flags

Reagents:

SG_GLY_ISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26017.D

Injection Date: 26-Mar-2023 17:20:41

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-125072-C-1

Lab Sample ID: 680-125072-1

Worklist Smp#: 17

Client ID: AF-RHMW04-WGN01LF-2303W3

Injection Vol: 1.0 ul

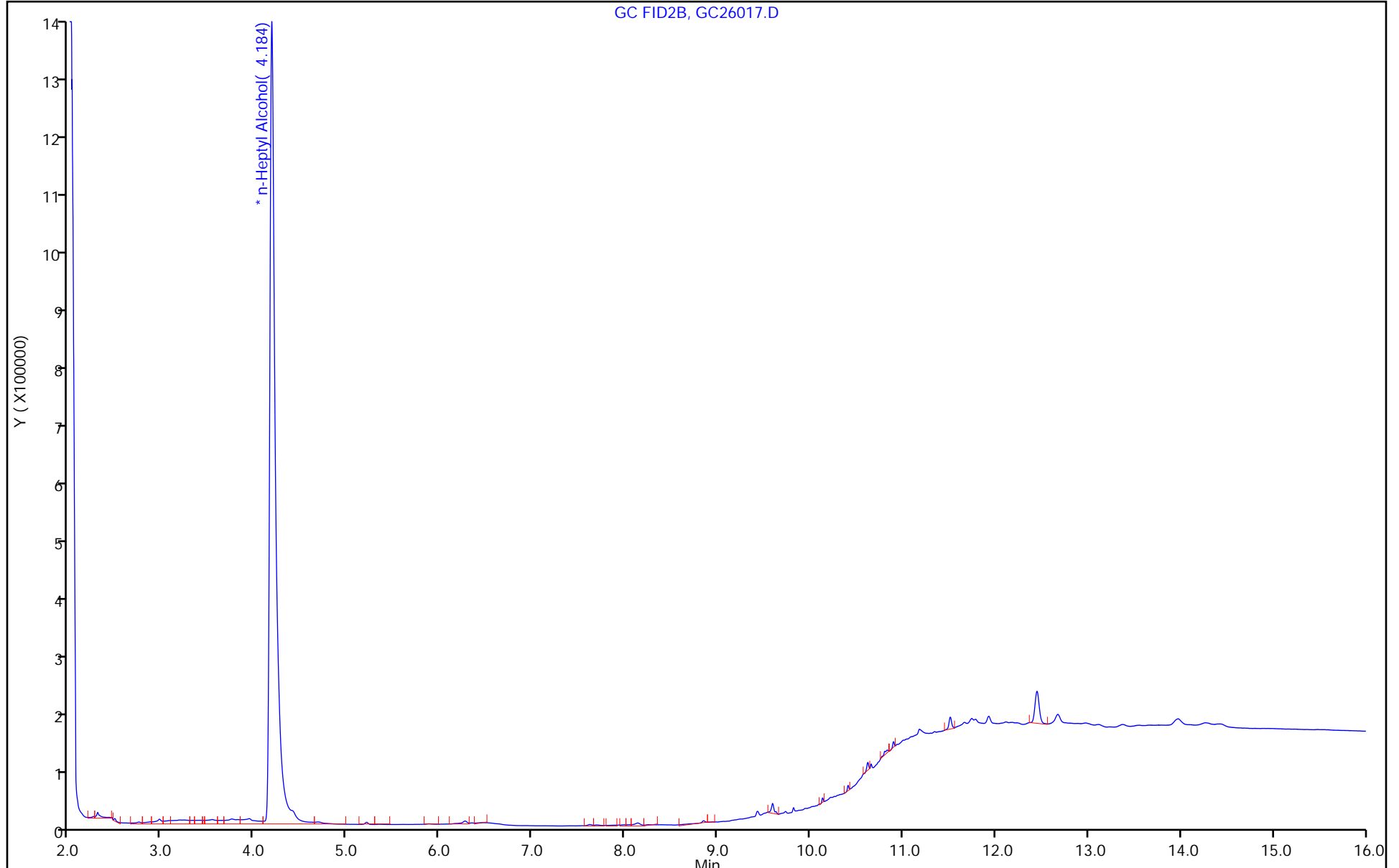
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



GC FID2B, GC26017.D

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-125072-1
 SDG No.: _____
 Client Sample ID: AF-RHMW06-WGN01LF-2303W3 Lab Sample ID: 580-125072-2
 Matrix: Water Lab File ID: GC26018.D
 Analysis Method: 8015C GLY Date Collected: 03/20/2023 12:10
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 03/26/2023 17:44
 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.: 769675 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U M Q	5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26018.D
 Lims ID: 580-125072-C-2
 Client ID: AF-RHMW06-WGN01LF-2303W3
 Sample Type: Client
 Inject. Date: 26-Mar-2023 17:44:06 ALS Bottle#: 0 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084685-018
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 27-Mar-2023 11:57:16 Calib Date: 23-Mar-2023 14:31:34
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1671

First Level Reviewer: SWK1 Date: 27-Mar-2023 11:56:11

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
--------------	------------------	------------------	----------	--------------------	-------

* 4 n-Heptyl Alcohol
 4.182 4.178 0.004 5876414 50.0

QC Flag Legend

Processing Flags

Reagents:

SG_GLY_ISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26018.D

Injection Date: 26-Mar-2023 17:44:06

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-125072-C-2

Lab Sample ID: 680-125072-2

Worklist Smp#: 18

Client ID: AF-RHMMW06-WGN01LF-2303W3

Injection Vol: 1.0 ul

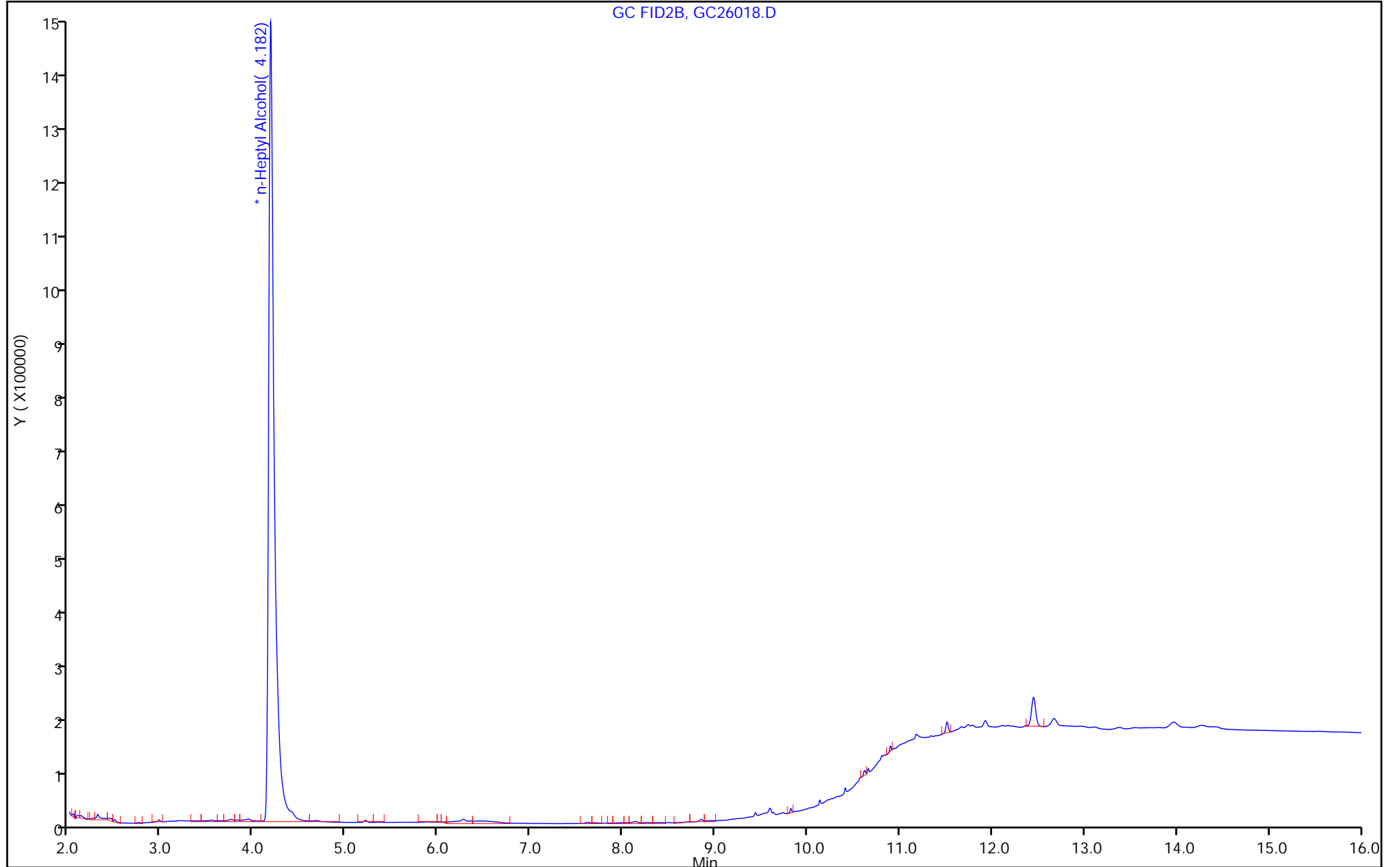
Dil. Factor: 1.0000

ALS Bottle#: 0

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.: 580-125072-1
 SDG No.: _____
 Client Sample ID: AF-RHWW16-WGN01LF-2303W3 Lab Sample ID: 580-125072-3
 Matrix: Water Lab File ID: GC26021.D
 Analysis Method: 8015C GLY Date Collected: 03/20/2023 12:00
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 03/26/2023 18:54
 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.: 769675 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U M Q	5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26021.D
 Lims ID: 580-125072-C-3
 Client ID: AF-RHMW16-WGN01LF-2303W3
 Sample Type: Client
 Inject. Date: 26-Mar-2023 18:54:21 ALS Bottle#: 0 Worklist Smp#: 21
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084685-021
 Operator ID: Instrument ID: CVGG2

Method: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 27-Mar-2023 11:57:16 Calib Date: 23-Mar-2023 14:31:34
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1671

First Level Reviewer: SWK1 Date: 27-Mar-2023 11:56:46

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
--------------	------------------	------------------	----------	--------------------	-------

* 4 n-Heptyl Alcohol
 4.179 4.178 0.001 5940763 50.0

QC Flag Legend

Processing Flags

Reagents:

SG_GLY_ISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26021.D

Injection Date: 26-Mar-2023 18:54:21

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-125072-C-3

Lab Sample ID: 680-125072-3

Worklist Smp#: 21

Client ID: AF-RHMW16-WGN01LF-2303W3

Injection Vol: 1.0 ul

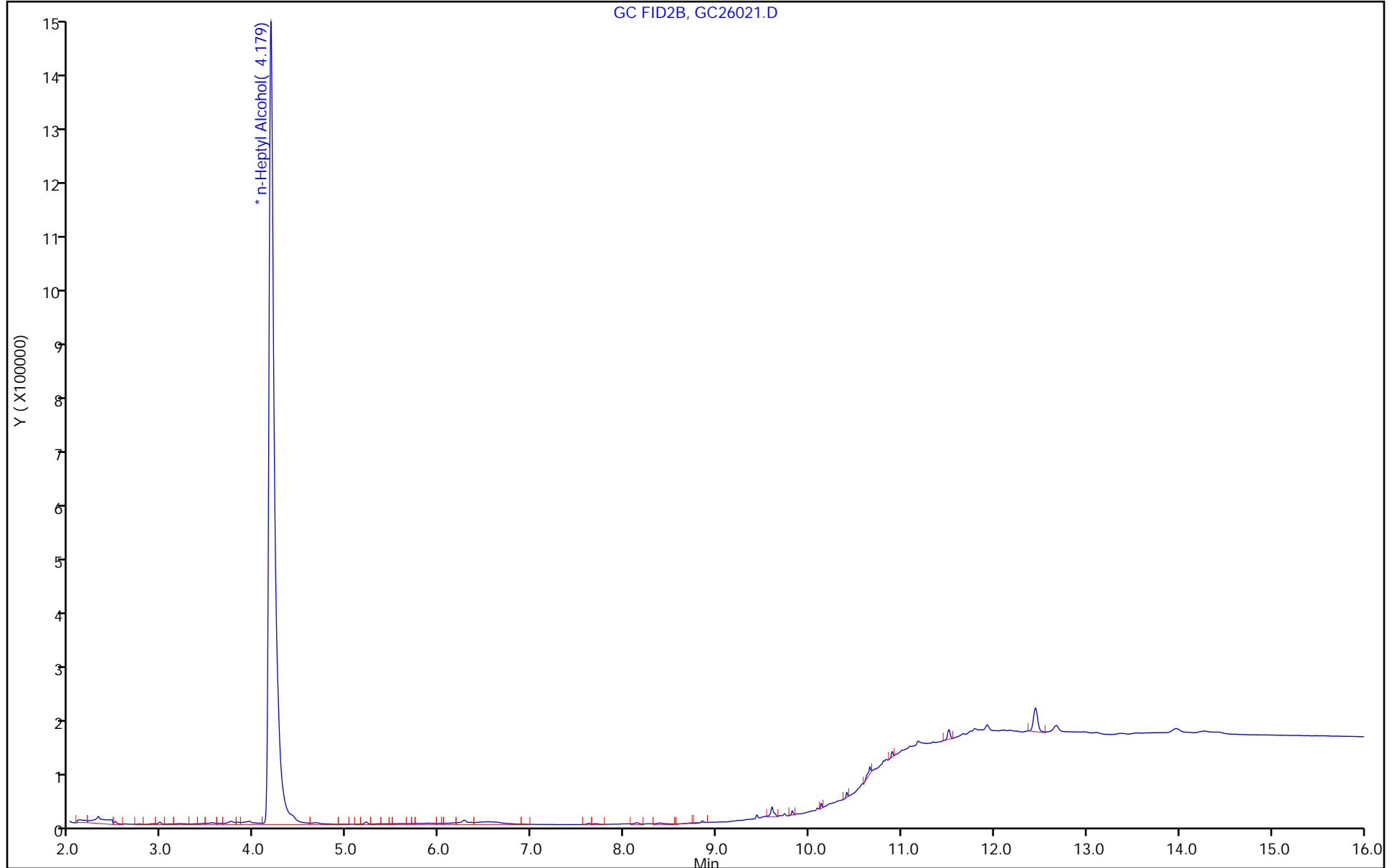
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



GC FID2B, GC26021.D

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-125072-1
 SDG No.: _____
 Client Sample ID: AF-RHMW12A-WGN01LF-2303W3 Lab Sample ID: 580-125072-4
 Matrix: Water Lab File ID: GC26022.D
 Analysis Method: 8015C GLY Date Collected: 03/20/2023 09:30
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 03/26/2023 19:17
 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.: 769675 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U Q	5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26022.D
 Lims ID: 580-125072-C-4
 Client ID: AF-RHMW12A-WGN01LF-2303W3
 Sample Type: Client
 Inject. Date: 26-Mar-2023 19:17:50 ALS Bottle#: 0 Worklist Smp#: 22
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084685-022
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 27-Mar-2023 11:57:16 Calib Date: 23-Mar-2023 14:31:34
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1671

First Level Reviewer: SWK1 Date: 27-Mar-2023 11:56:49

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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* 4 n-Heptyl Alcohol
 4.184 4.178 0.006 5369288 50.0

QC Flag Legend

Processing Flags

Reagents:

SG_GLY_ISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26022.D

Injection Date: 26-Mar-2023 19:17:50

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-125072-C-4

Lab Sample ID: 680-125072-4

Worklist Smp#: 22

Client ID: AF-RHMW12A-WGN01LF-2303W3

Injection Vol: 1.0 ul

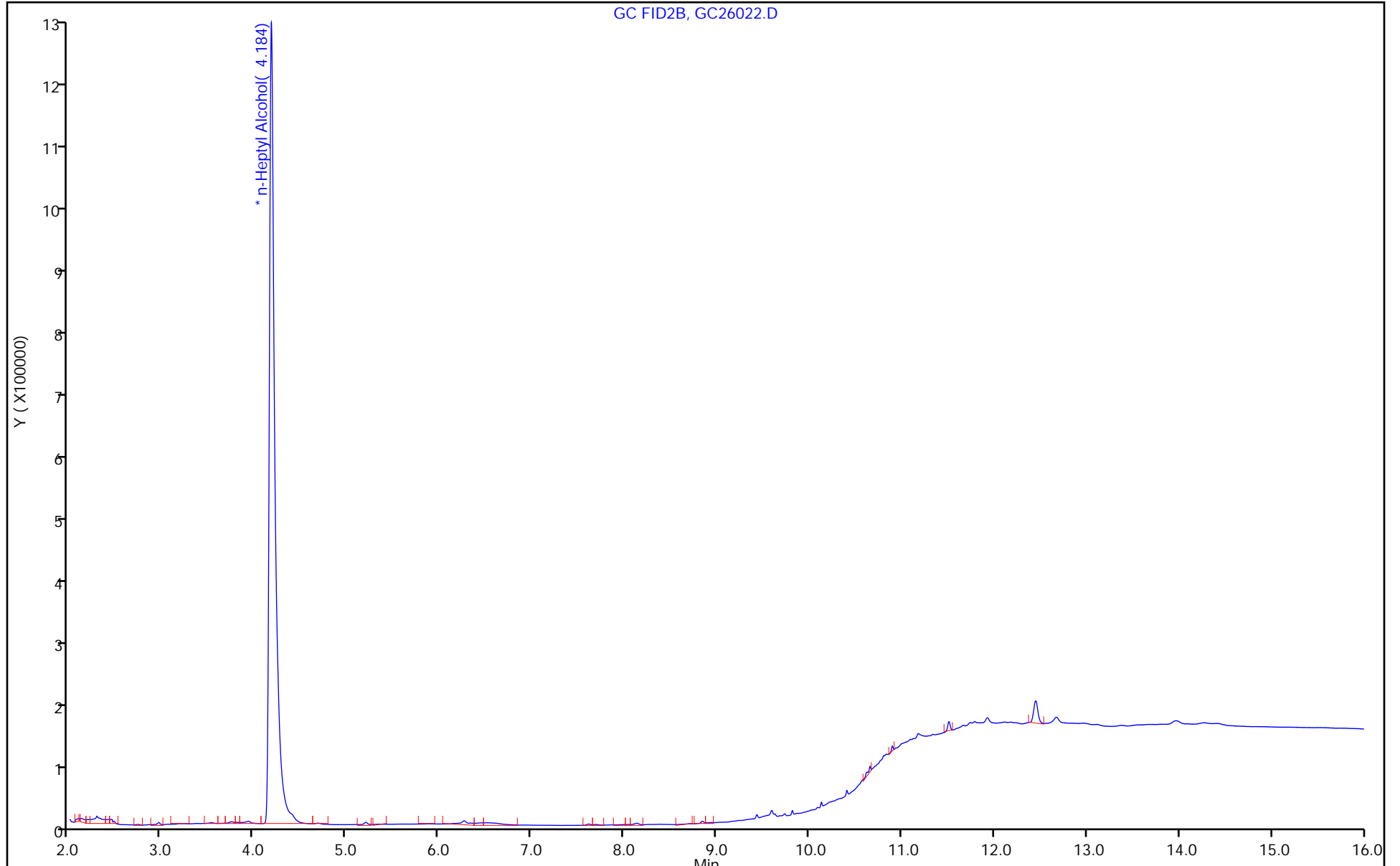
Dil. Factor: 1.0000

ALS Bottle#: 0

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.: 580-125072-1
SDG No.: _____
Client Sample ID: AF-RHWW12A-WGFD01LF-2303W Lab Sample ID: 580-125072-5
3
Matrix: Water Lab File ID: GC26023.D
Analysis Method: 8015C GLY Date Collected: 03/20/2023 09:30
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 1(mL) Date Analyzed: 03/26/2023 19:41
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.: 769675 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U M Q	5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26023.D
 Lims ID: 580-125072-C-5
 Client ID: AF-RHMW12A-WGFD01LF-2303W3
 Sample Type: Client
 Inject. Date: 26-Mar-2023 19:41:11 ALS Bottle#: 0 Worklist Smp#: 23
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084685-023
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 27-Mar-2023 11:57:16 Calib Date: 23-Mar-2023 14:31:34
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1671

First Level Reviewer: SWK1 Date: 27-Mar-2023 11:56:56

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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* 4 n-Heptyl Alcohol
 4.181 4.178 0.003 5768034 50.0

QC Flag Legend

Processing Flags

Reagents:

SG_GLY_ISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26023.D

Injection Date: 26-Mar-2023 19:41:11

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-125072-C-5

Lab Sample ID: 680-125072-5

Worklist Smp#: 23

Client ID: AF-RHMW12A-WGFD01LF-2303W3

Injection Vol: 1.0 ul

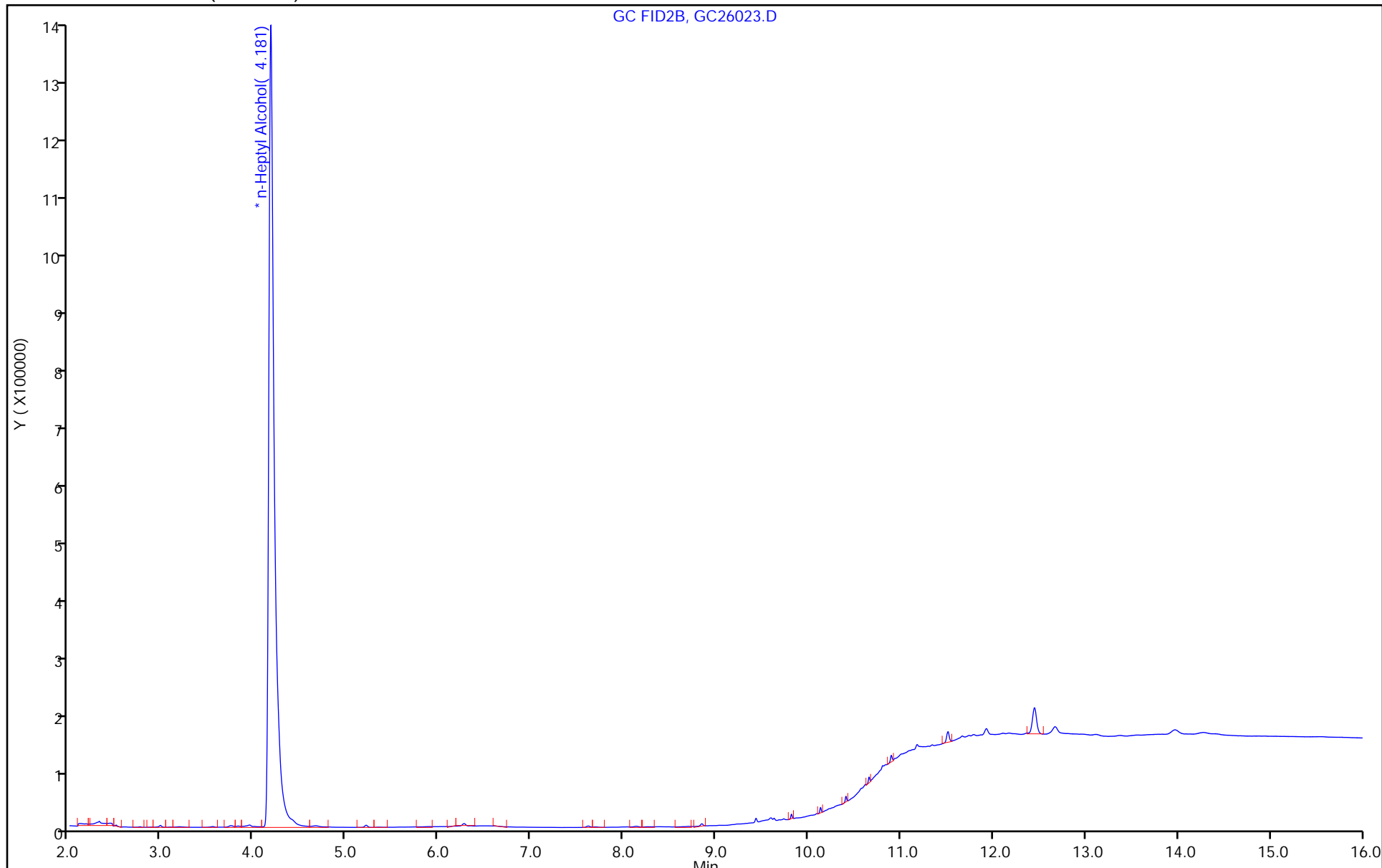
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



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

Lab Name: Eurofins Savannah Job No.: 580-125072-1 Analy Batch No.: 769242

SDG No.: _____

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

Calibration Start Date: 03/23/2023 12:11 Calibration End Date: 03/23/2023 14:31 Calibration ID: 90376

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-769242/11	GC23011.D
Level 2	IC 680-769242/10	GC23010.D
Level 3	IC 680-769242/9	GC23009.D
Level 4	ICIS 680-769242/8	GC23008.D
Level 5	IC 680-769242/7	GC23007.D
Level 6	IC 680-769242/6	GC23006.D
Level 7	IC 680-769242/5	GC23005.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 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethanol, 2-propoxy	1.1241 0.5455	0.7989 0.5928	0.7512	0.7509	0.6263	Lin2	1.046 0	0.608 0						0.9900		0.9900	
4-Hydroxy-4-methyl-2-pentanone	1.0849 0.5396	0.8037 0.5919	0.7425	0.7449	0.6156	Lin2	0.984 7	0.606 3						0.9900		0.9900	
2-Butoxyethanol	1.2623 0.5866	0.8803 0.6480	0.8234	0.8158	0.6762	Lin2	1.224 6	0.657 1						0.9900		0.9900	
Dipropylene Glycol Methyl Ether	0.0903 0.0439	0.0607 0.0494	0.0582	0.0557	0.0476	Lin2	0.085 4	0.047 1						0.9940		0.9900	
Propylene glycol	0.2983 0.0861	0.1604 0.0939	0.1353	0.0900	0.0985	Lin1	0.405 1	0.085 8						0.9930		0.9900	
Ethylene glycol	1.0202 0.4054	0.5271 0.4272	0.6118	0.3596	0.4432	Qua	1.150 2	0.374 8	0.0003691					0.9950		0.9900	
2-(2-Butoxyethoxy)ethanol	1.0611 0.4617	0.7319 0.5263	0.6509	0.6005	0.5192	Lin2	1.125 6	0.506 7						0.9950		0.9900	
2,2'-Oxybisethanol	0.6796 0.2128	0.3085 0.2298	0.3072	0.1902	0.2313	Qua	0.835 3	0.178 5	0.0004033					0.9960		0.9900	
Triethylene Glycol	0.6161 0.2024	0.2734 0.2231	0.2835	0.1669	0.2210	Qua	0.721 5	0.163 8	0.0004904					0.9940		0.9900	
Tetraethylene Glycol	0.6520 0.2087	0.2947 0.2344	0.2962	0.1761	0.2296	Qua	1.674 3	0.163 2	0.0002940					0.9930		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.: 580-125072-1 Analy Batch No.: 769242

SDG No.: _____

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

Calibration Start Date: 03/23/2023 12:11 Calibration End Date: 03/23/2023 14:31 Calibration ID: 90376

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-769242/11	GC23011.D
Level 2	IC 680-769242/10	GC23010.D
Level 3	IC 680-769242/9	GC23009.D
Level 4	ICIS 680-769242/8	GC23008.D
Level 5	IC 680-769242/7	GC23007.D
Level 6	IC 680-769242/6	GC23006.D
Level 7	IC 680-769242/5	GC23005.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Ethanol, 2-propoxy	nHPA	Lin2	222606	423678	684138	1369566	2657978	2.00	5.00	10.0	20.0	50.0
			3910764	6177543				80.0	100			
4-Hydroxy-4-methyl-2-pentanone	nHPA	Lin2	214846	426241	676183	1358676	2612448	2.00	5.00	10.0	20.0	50.0
			3868549	6167935				80.0	100			
2-Butoxyethanol	nHPA	Lin2	249990	466844	749886	1487936	2869510	2.00	5.00	10.0	20.0	50.0
			4205911	6752774				80.0	100			
Dipropylene Glycol Methyl Ether	nHPA	Lin2	17889	32168	53030	101506	201986	2.00	5.00	10.0	20.0	50.0
			314859	514384				80.0	100			
Propylene glycol	nHPA	Lin1	59077	85044	123267	164124	417925	2.00	5.00	10.0	20.0	50.0
			617526	978720				80.0	100			
Ethylene glycol	nHPA	Qua	202034	279517	557188	655893	1880898	2.00	5.00	10.0	20.0	50.0
			2906758	4452120				80.0	100			
2-(2-Butoxyethoxy)ethanol	nHPA	Lin2	210143	388128	592831	1095359	2203272	2.00	5.00	10.0	20.0	50.0
			3310320	5484194				80.0	100			
2,2'-Oxybisethanol	nHPA	Qua	134591	163602	279809	346970	981626	2.00	5.00	10.0	20.0	50.0
			1525367	2394692				80.0	100			
Triethylene Glycol	nHPA	Qua	122005	144986	258184	304342	938017	2.00	5.00	10.0	20.0	50.0
			1450823	2324563				80.0	100			
Tetraethylene Glycol	nHPA	Qua	258240	312596	539508	642479	1948447	4.00	10.0	20.0	40.0	100
			2992679	4884486				160	200			

Curve Type Legend

Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

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

Lab Name: Eurofins Savannah Job No.: 580-125072-1 Analy Batch No.: 769242

SDG No.: _____

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

Calibration Start Date: 03/23/2023 12:11 Calibration End Date: 03/23/2023 14:31 Calibration ID: 90376

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-769242/11	GC23011.D
Level 2	IC 680-769242/10	GC23010.D
Level 3	IC 680-769242/9	GC23009.D
Level 4	ICIS 680-769242/8	GC23008.D
Level 5	IC 680-769242/7	GC23007.D
Level 6	IC 680-769242/6	GC23006.D
Level 7	IC 680-769242/5	GC23005.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Ethanol, 2-propoxy	-1.1 -4.2	-3.0	6.3	14.9	-0.4	-12.4	20 20	20	20	20	20	20
4-Hydroxy-4-methyl-2-pentanone	-2.3 -4.0	0.1	6.2	14.7	-1.7	-13.0	20 20	20	20	20	20	20
2-Butoxyethanol	-1.1 -3.2	-3.3	6.7	14.8	-0.8	-13.1	20 20	20	20	20	20	20
Dipropylene Glycol Methyl Ether	1.2 3.0	-7.4	5.5	9.1	-2.5	-9.0	20 20	20	20	20	20	20
Propylene glycol	11.5 4.7	-7.6	10.5	-18.8	5.3	-5.6	20 20	20	20	20	20	20
2-(2-Butoxyethoxy)ethanol	-1.7 1.6	0.0	6.2	7.4	-2.0	-11.7	20 20	20	20	20	20	20

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23005.D
 Lims ID: ic g7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 23-Mar-2023 12:11:26 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084624-005
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 24-Mar-2023 13:02:05 Calib Date: 23-Mar-2023 14:31:34
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1629

First Level Reviewer: SWK1 Date: 24-Mar-2023 13:00:43

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
2.912	2.908	0.004	6177543	100.0	95.8	
2 4-Hydroxy-4-methyl-2-pentanone						
3.464	3.463	0.001	6167935	100.0	96.0	
3 2-Butoxyethanol						
3.751	3.748	0.003	6752774	100.0	96.8	
* 4 n-Heptyl Alcohol						
4.196	4.192	0.004	5210584	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.126	5.125	0.001	514384	100.0	103.0	
6 Propylene glycol						
6.330	6.334	-0.004	978720	100.0	104.7	a
7 Ethylene glycol						
6.551	6.562	-0.011	4452120	100.0	100.9	a
8 2-(2-Butoxyethoxy)ethanol						
8.392	8.390	0.002	5484194	100.0	101.6	
9 2,2'-Oxybisethanol						
9.597	9.598	-0.001	2394692	100.0	101.0	
10 Triethylene Glycol						
10.625	10.626	-0.001	2324563	100.0	101.1	
11 Tetraethylene Glycol						
11.756	11.758	-0.002	4884486	200.0	202.8	

QC Flag Legend
Processing Flags

Review Flags

a - User Assigned ID

Reagents:

SG_Gly_CAL_00048

Amount Added: 50.00

Units: uL

SG_GLY_ISTD_00106

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23005.D

Injection Date: 23-Mar-2023 12:11:26

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g7

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

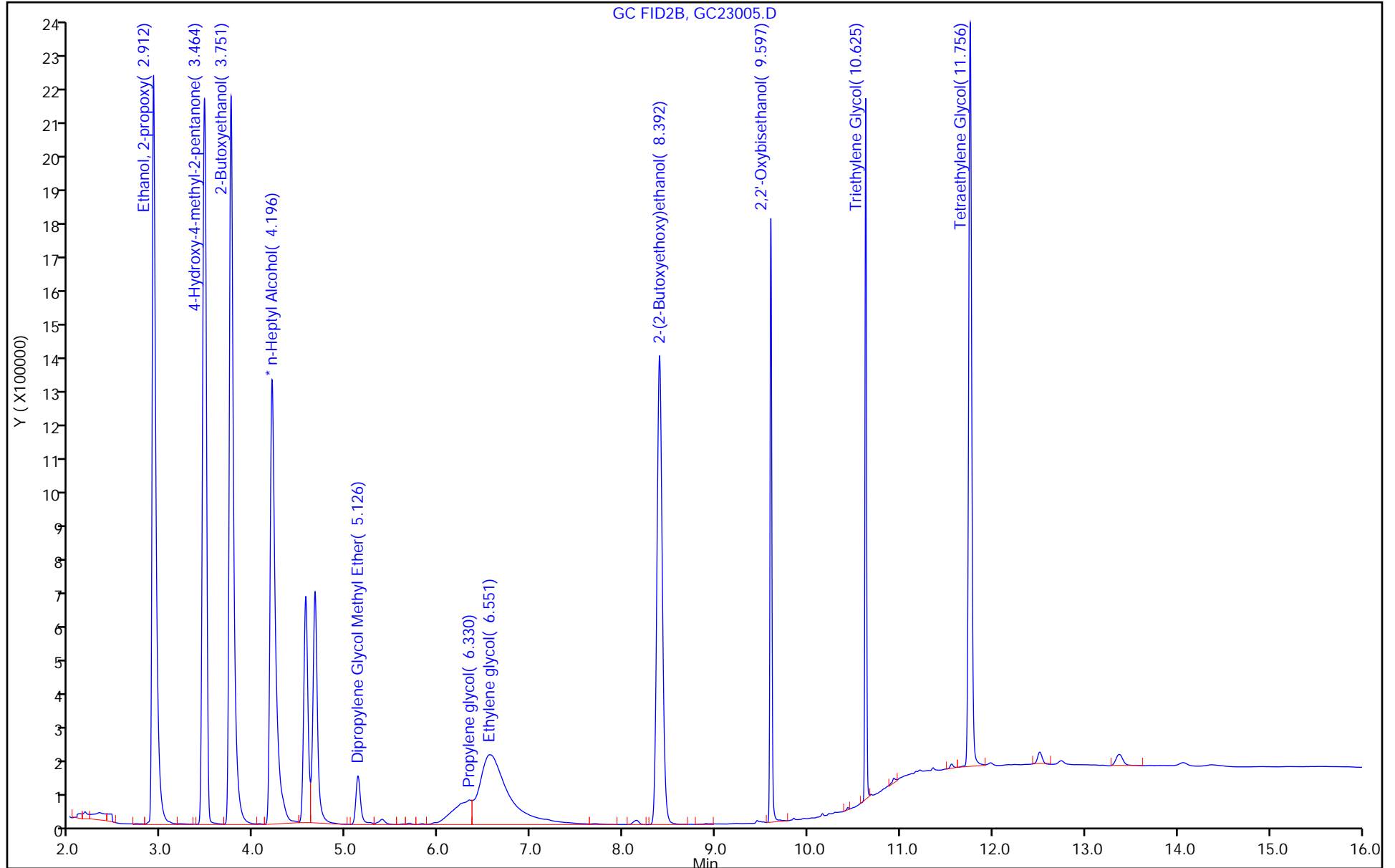
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

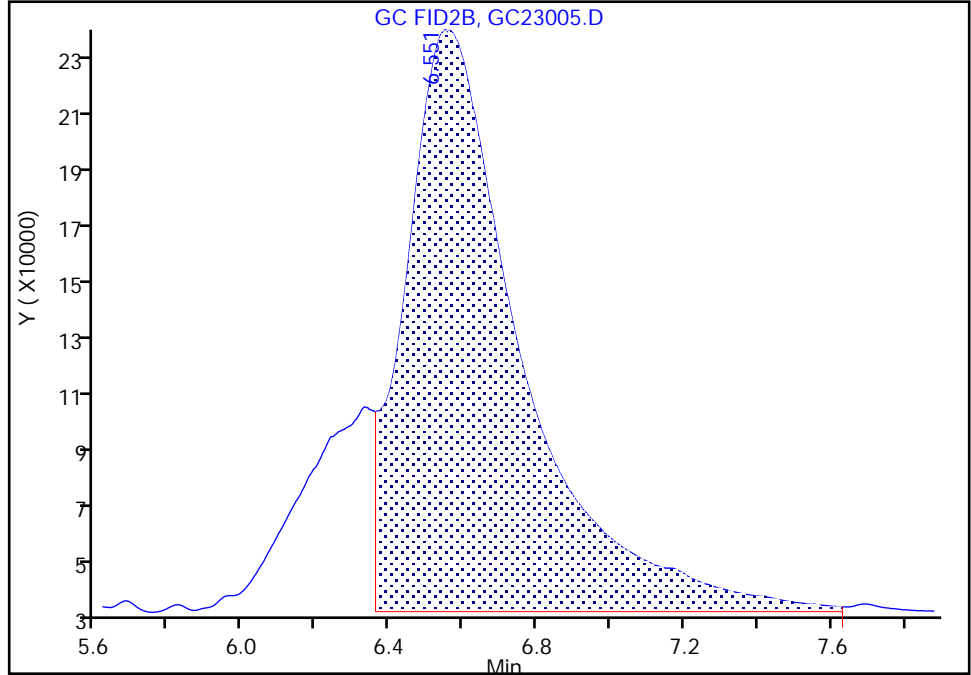
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23005.D
Injection Date: 23-Mar-2023 12:11:26 Instrument ID: CVGG2
Lims ID: ic g7
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

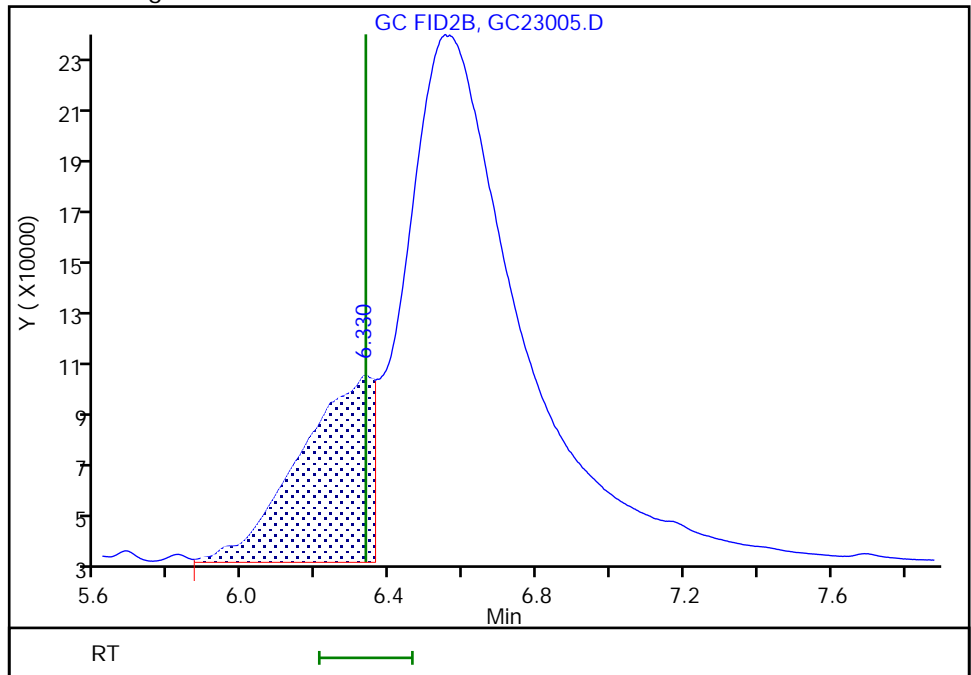
RT: 6.55
Area: 4452120
Amount: 100.8861
Amount Units: ug/ml

Processing Integration Results



RT: 6.33
Area: 978720
Amount: 104.6783
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah

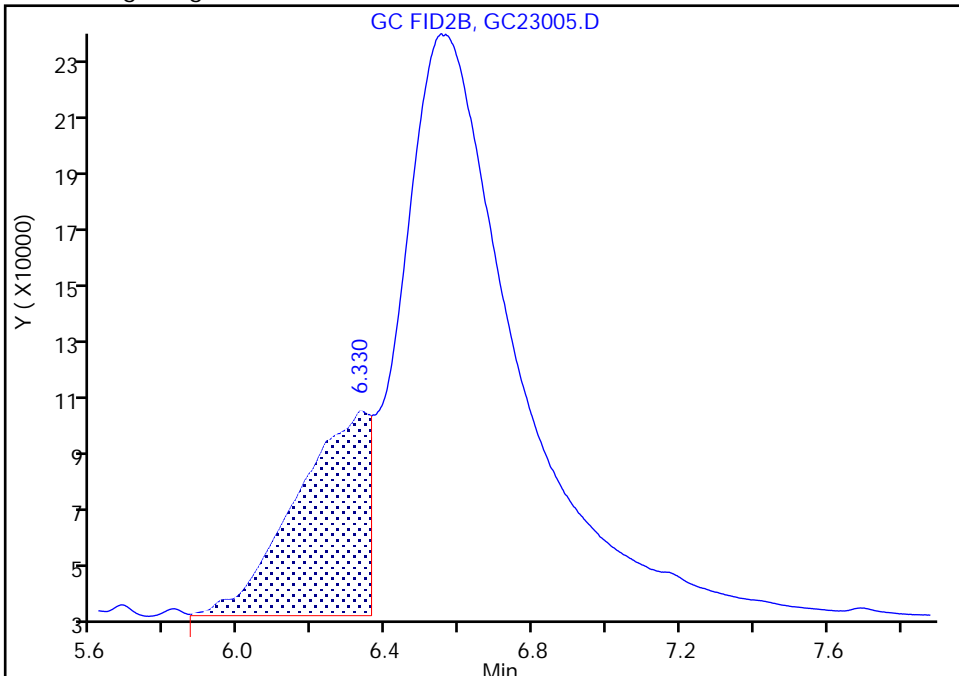
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23005.D
Injection Date: 23-Mar-2023 12:11:26 Instrument ID: CVGG2
Lims ID: ic g7
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

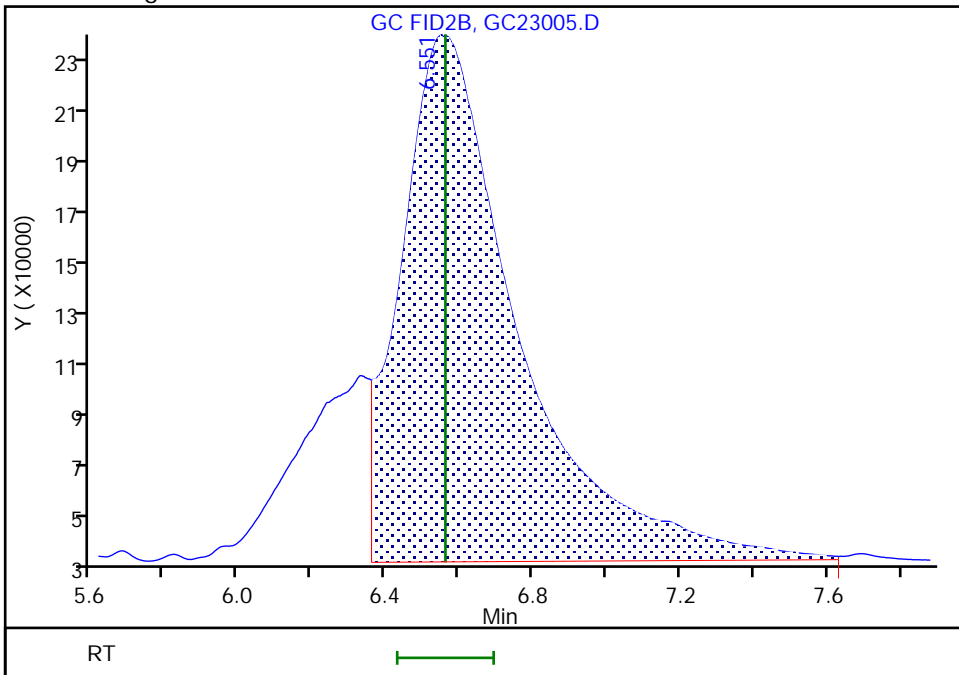
RT: 6.33
Area: 978720
Amount: 104.6783
Amount Units: ug/ml

Processing Integration Results



RT: 6.55
Area: 4452120
Amount: 100.8861
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 24-Mar-2023 13:00:39
Audit Action: Assigned Compound ID

Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23006.D
 Lims ID: ic g6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 23-Mar-2023 12:34:43 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084624-006
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 24-Mar-2023 13:02:07 Calib Date: 23-Mar-2023 14:31:34
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1629

First Level Reviewer: SWK1 Date: 24-Mar-2023 12:46:00

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy	2.909	2.908	0.001	3910764	80.0	70.1	
2 4-Hydroxy-4-methyl-2-pentanone	3.462	3.463	-0.001	3868549	80.0	69.6	
3 2-Butoxyethanol	3.748	3.748	0.000	4205911	80.0	69.6	
* 4 n-Heptyl Alcohol	4.194	4.192	0.002	4480966	50.0	50.0	
5 Dipropylene Glycol Methyl Ether	5.125	5.125	0.000	314859	80.0	72.8	
6 Propylene glycol	6.334	6.334	0.000	617526	80.0	75.5	a
7 Ethylene glycol	6.562	6.562	0.000	2906758	80.0	77.5	a
8 2-(2-Butoxyethoxy)ethanol	8.390	8.390	0.000	3310320	80.0	70.7	
9 2,2'-Oxybisethanol	9.597	9.598	-0.001	1525367	80.0	77.2	
10 Triethylene Glycol	10.624	10.626	-0.002	1450823	80.0	76.8	
11 Tetraethylene Glycol	11.756	11.758	-0.002	2992679	160.0	152.4	

QC Flag Legend
Processing Flags

Review Flags

a - User Assigned ID

Reagents:

SG_Gly_CAL_00048

Amount Added: 40.00

Units: uL

SG_GLY_ISTD_00106

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23006.D

Injection Date: 23-Mar-2023 12:34:43

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g6

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

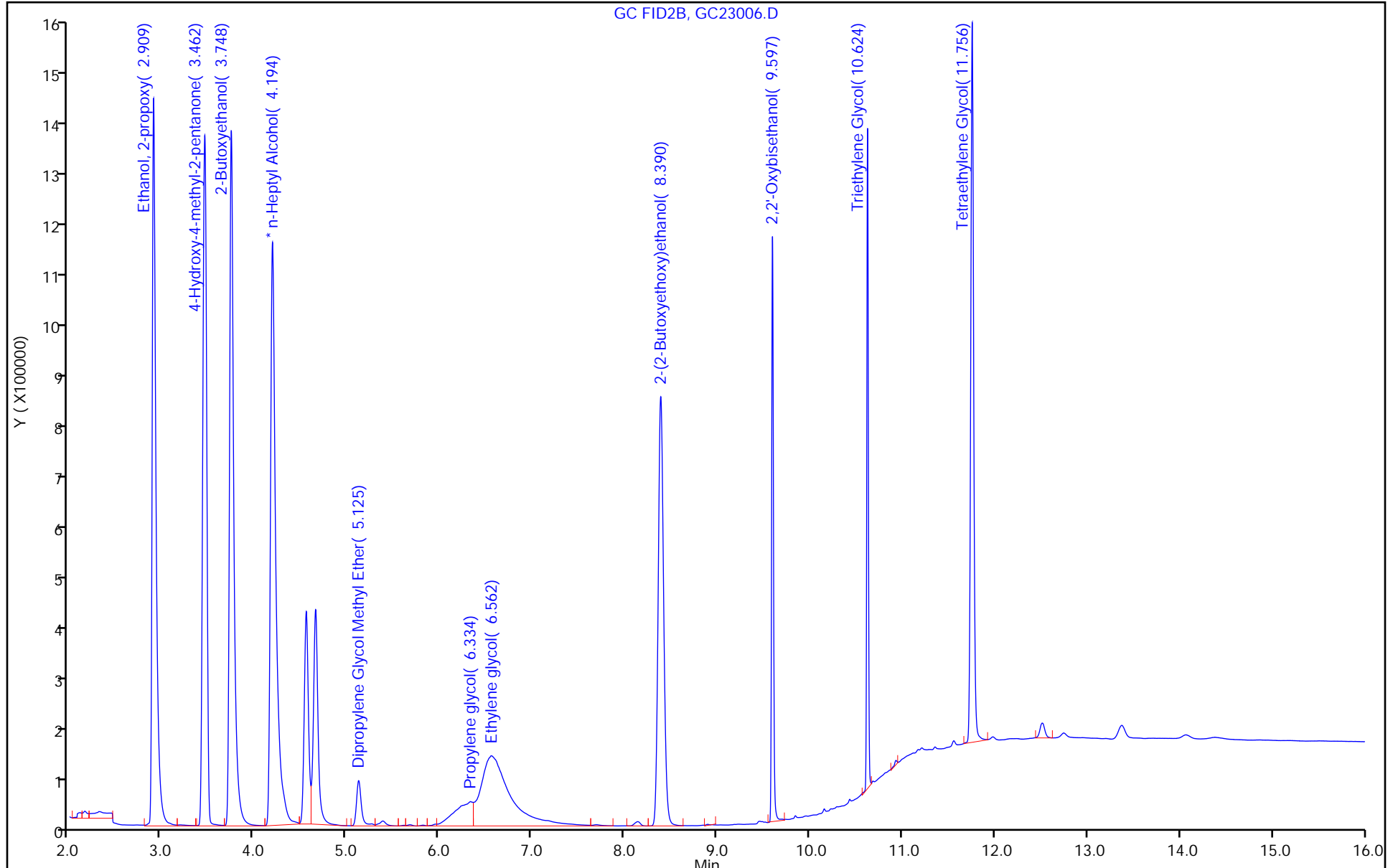
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

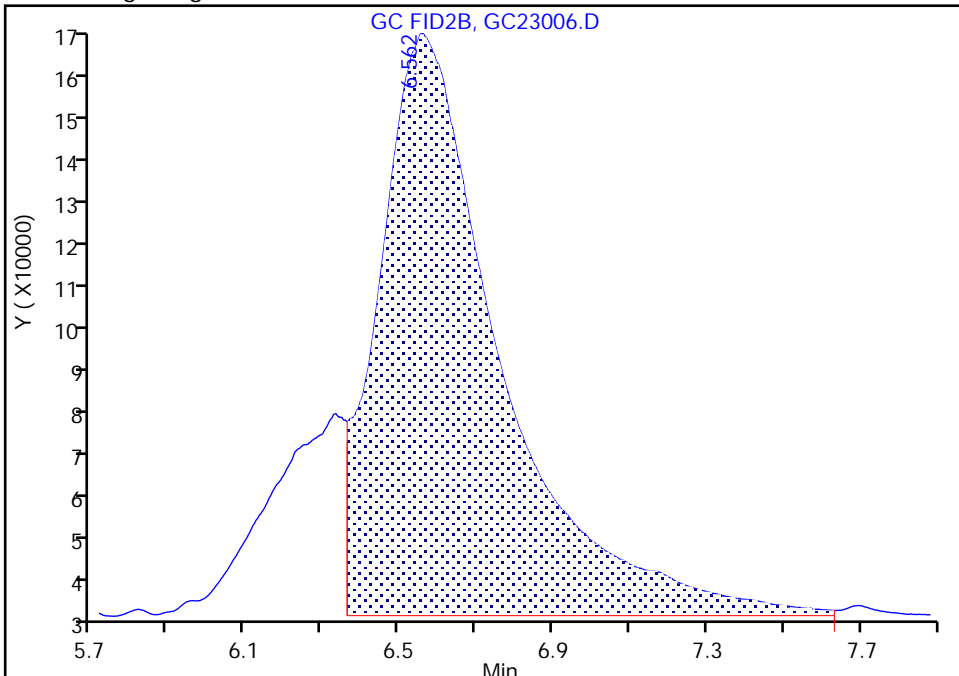
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23006.D
Injection Date: 23-Mar-2023 12:34:43 Instrument ID: CVGG2
Lims ID: ic g6
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

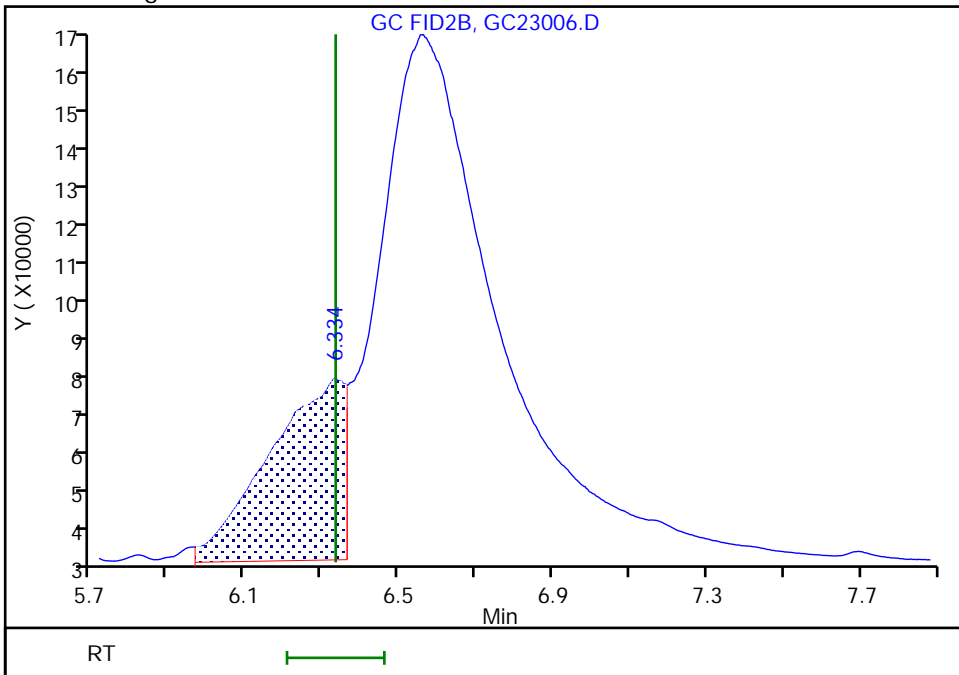
RT: 6.56
Area: 2906758
Amount: 65.596667
Amount Units: ug/ml

Processing Integration Results



RT: 6.33
Area: 617526
Amount: 75.544474
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 24-Mar-2023 13:00:46
Audit Action: Assigned Compound ID

Audit Reason: Baseline Smoothing

Eurofins Savannah

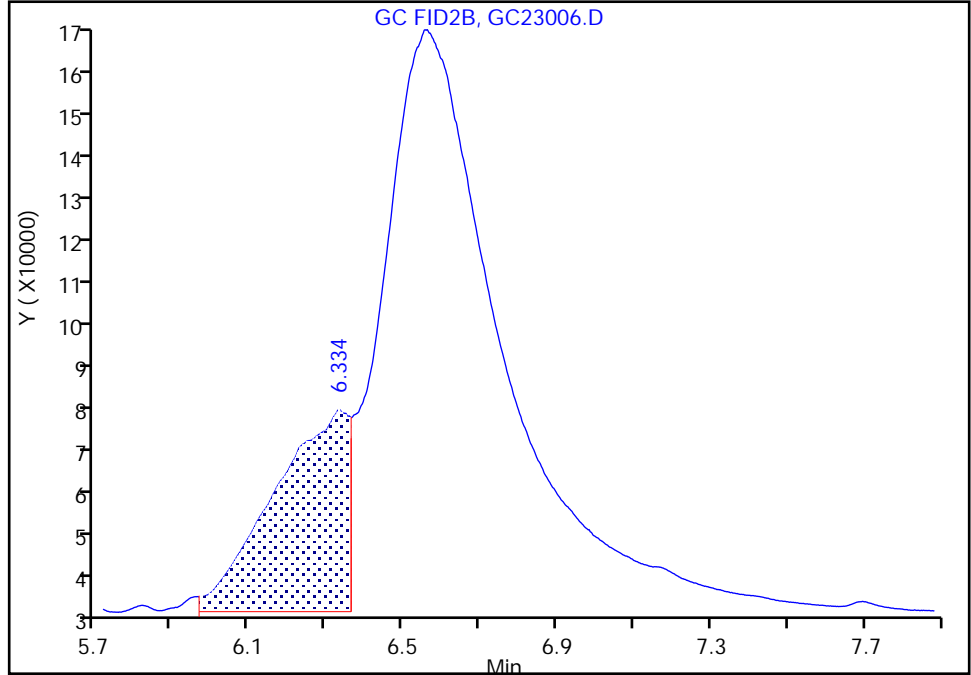
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23006.D
Injection Date: 23-Mar-2023 12:34:43 Instrument ID: CVGG2
Lims ID: ic g6
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

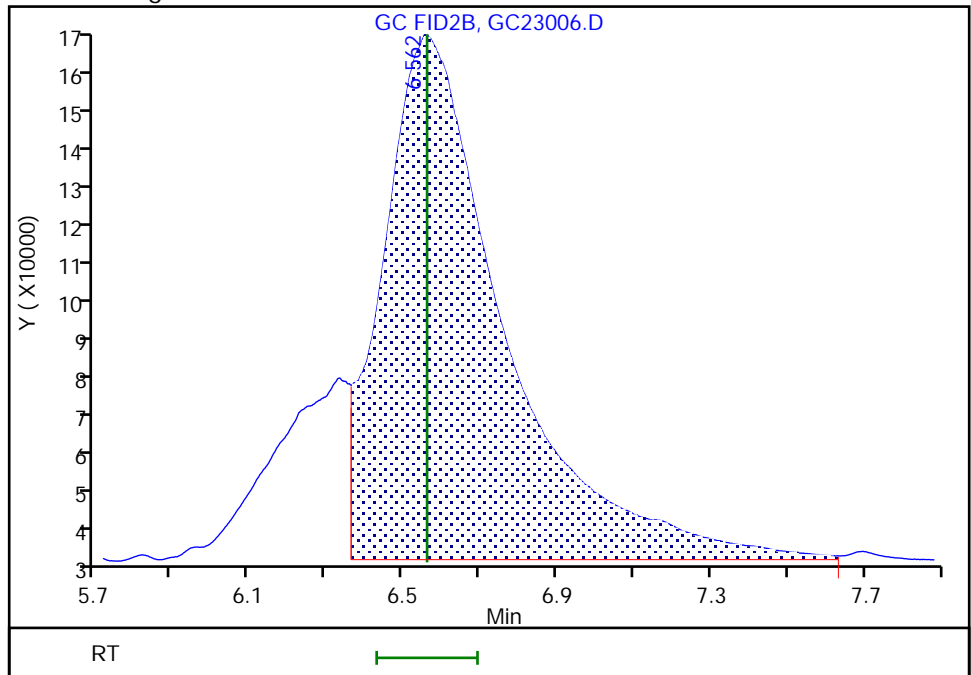
RT: 6.33
Area: 617526
Amount: 37.222418
Amount Units: ug/ml

Processing Integration Results



RT: 6.56
Area: 2906758
Amount: 77.542036
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 24-Mar-2023 13:00:49
Audit Action: Assigned Compound ID

Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23007.D
 Lims ID: ic g5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 23-Mar-2023 12:58:07 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084624-007
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 24-Mar-2023 13:02:08 Calib Date: 23-Mar-2023 14:31:34
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1629

First Level Reviewer: SWK1 Date: 24-Mar-2023 13:01:00

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
2.908	2.908	0.000	2657978	50.0	49.8	
2 4-Hydroxy-4-methyl-2-pentanone						
3.462	3.463	-0.001	2612448	50.0	49.1	
3 2-Butoxyethanol						
3.747	3.748	-0.001	2869510	50.0	49.6	
* 4 n-Heptyl Alcohol						
4.191	4.192	-0.001	4243838	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.127	5.125	0.002	201986	50.0	48.7	
6 Propylene glycol						
6.337	6.334	0.003	417925	50.0	52.6	a
7 Ethylene glycol						
6.560	6.562	-0.002	1880898	50.0	53.3	a
8 2-(2-Butoxyethoxy)ethanol						
8.389	8.390	-0.001	2203272	50.0	49.0	
9 2,2'-Oxybisethanol						
9.596	9.598	-0.002	981626	50.0	53.6	
10 Triethylene Glycol						
10.624	10.626	-0.002	938017	50.0	54.2	
11 Tetraethylene Glycol						
11.754	11.758	-0.004	1948447	100.0	109.0	

QC Flag Legend
Processing Flags

Review Flags

a - User Assigned ID

Reagents:

SG_Gly_CAL_00048

Amount Added: 25.00

Units: uL

SG_GLY_ISTD_00106

Amount Added: 10.00

Units: uL

Run Reagent

Euofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23007.D

Injection Date: 23-Mar-2023 12:58:07

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g5

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

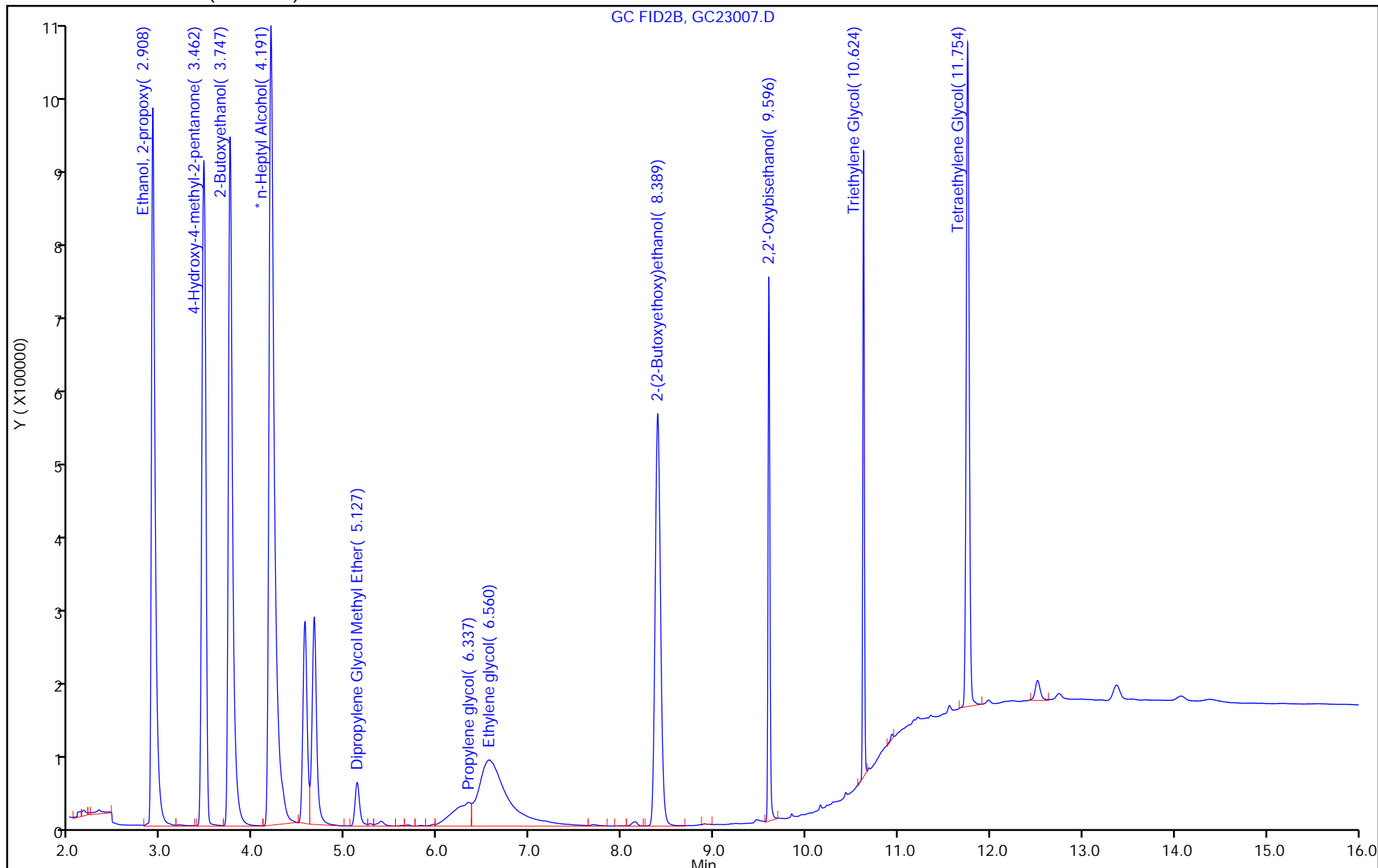
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

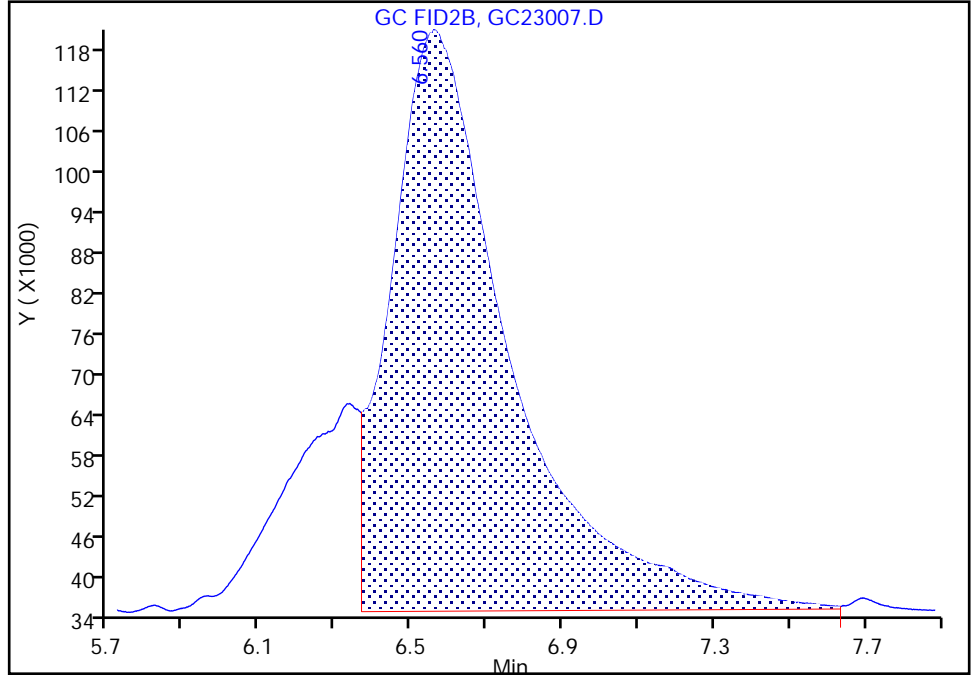
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23007.D
Injection Date: 23-Mar-2023 12:58:07 Instrument ID: CVGG2
Lims ID: ic g5
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

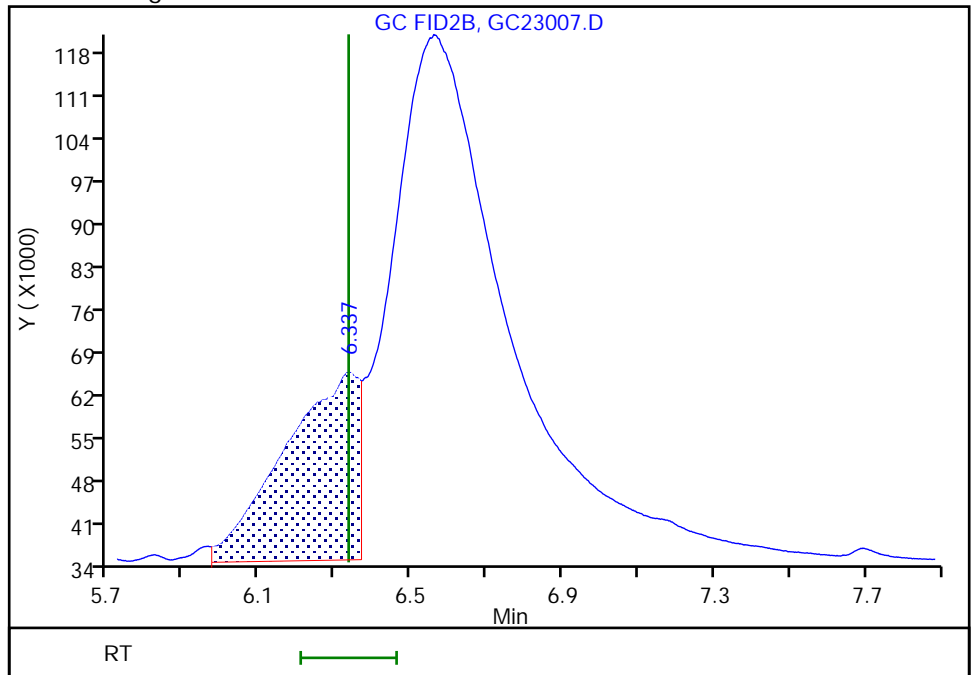
RT: 6.56
Area: 1880898
Amount: 49.372553
Amount Units: ug/ml

Processing Integration Results



RT: 6.34
Area: 417925
Amount: 52.636303
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 24-Mar-2023 13:00:59
Audit Action: Assigned Compound ID

Audit Reason: Baseline Smoothing

Eurofins Savannah

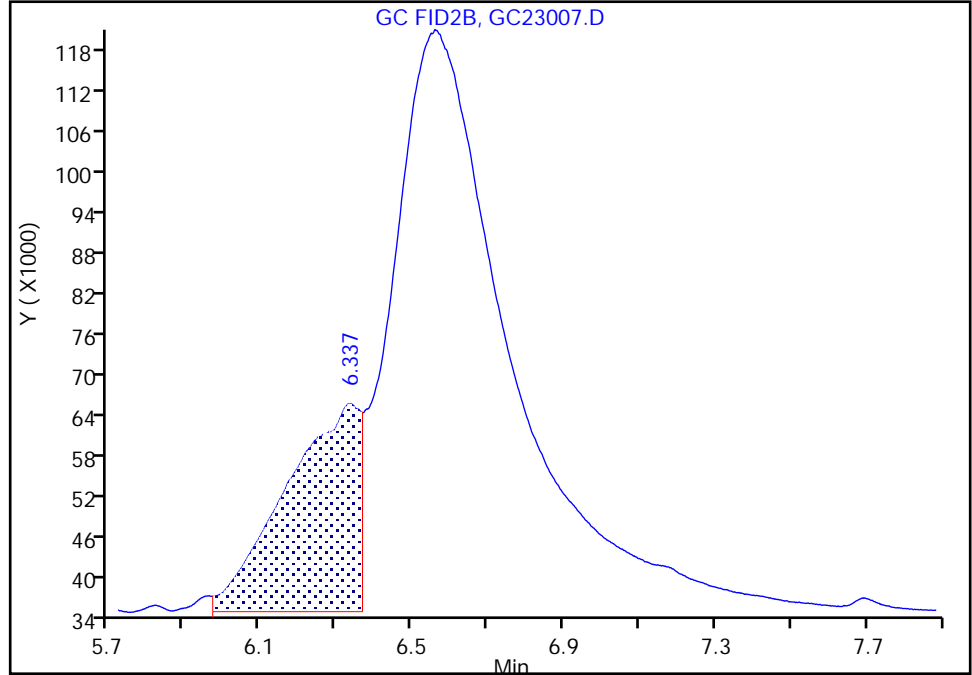
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23007.D
Injection Date: 23-Mar-2023 12:58:07 Instrument ID: CVGG2
Lims ID: ic g5
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

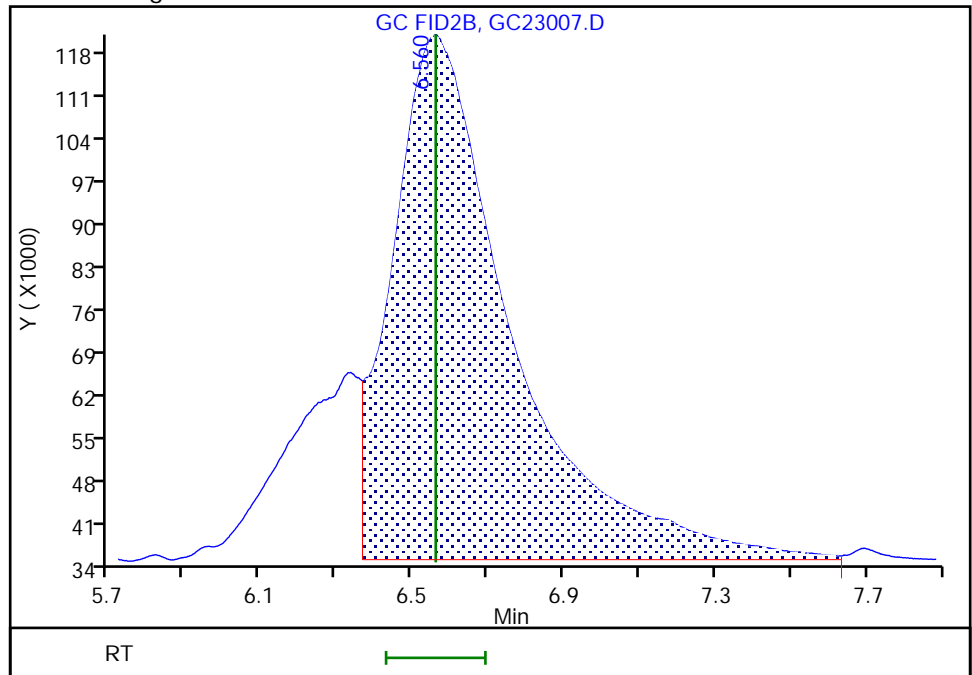
RT: 6.34
Area: 417925
Amount: 21.340325
Amount Units: ug/ml

Processing Integration Results



RT: 6.56
Area: 1880898
Amount: 53.259337
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 24-Mar-2023 13:00:52
Audit Action: Assigned Compound ID

Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23008.D
 Lims ID: icis g4
 Client ID:
 Sample Type: ICIS Calib Level: 4
 Inject. Date: 23-Mar-2023 13:21:27 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084624-008
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 24-Mar-2023 13:02:09 Calib Date: 23-Mar-2023 14:31:34
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1629

First Level Reviewer: SWK1 Date: 24-Mar-2023 13:01:08

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
2.908	2.908	0.000	1369566	20.0	23.0	
2 4-Hydroxy-4-methyl-2-pentanone						
3.463	3.463	0.000	1358676	20.0	22.9	
3 2-Butoxyethanol						
3.748	3.748	0.000	1487936	20.0	23.0	
* 4 n-Heptyl Alcohol						
4.192	4.192	0.000	4560010	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.125	5.125	0.000	101506	20.0	21.8	
6 Propylene glycol						
6.334	6.334	0.000	164124	20.0	16.2	a
7 Ethylene glycol						
6.562	6.562	0.000	655893	20.0	15.9	a
8 2-(2-Butoxyethoxy)ethanol						
8.390	8.390	0.000	1095359	20.0	21.5	
9 2,2'-Oxybisethanol						
9.598	9.598	0.000	346970	20.0	16.1	
10 Triethylene Glycol						
10.626	10.626	0.000	304342	20.0	15.3	
11 Tetraethylene Glycol						
11.758	11.758	0.000	642479	40.0	31.1	

QC Flag Legend
Processing Flags

Review Flags

a - User Assigned ID

Reagents:

SG_Gly_CAL_00048

Amount Added: 10.00

Units: uL

SG_GLY_ISTD_00106

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23008.D

Injection Date: 23-Mar-2023 13:21:27

Instrument ID: CVGG2

Operator ID:

Lims ID: icis g4

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

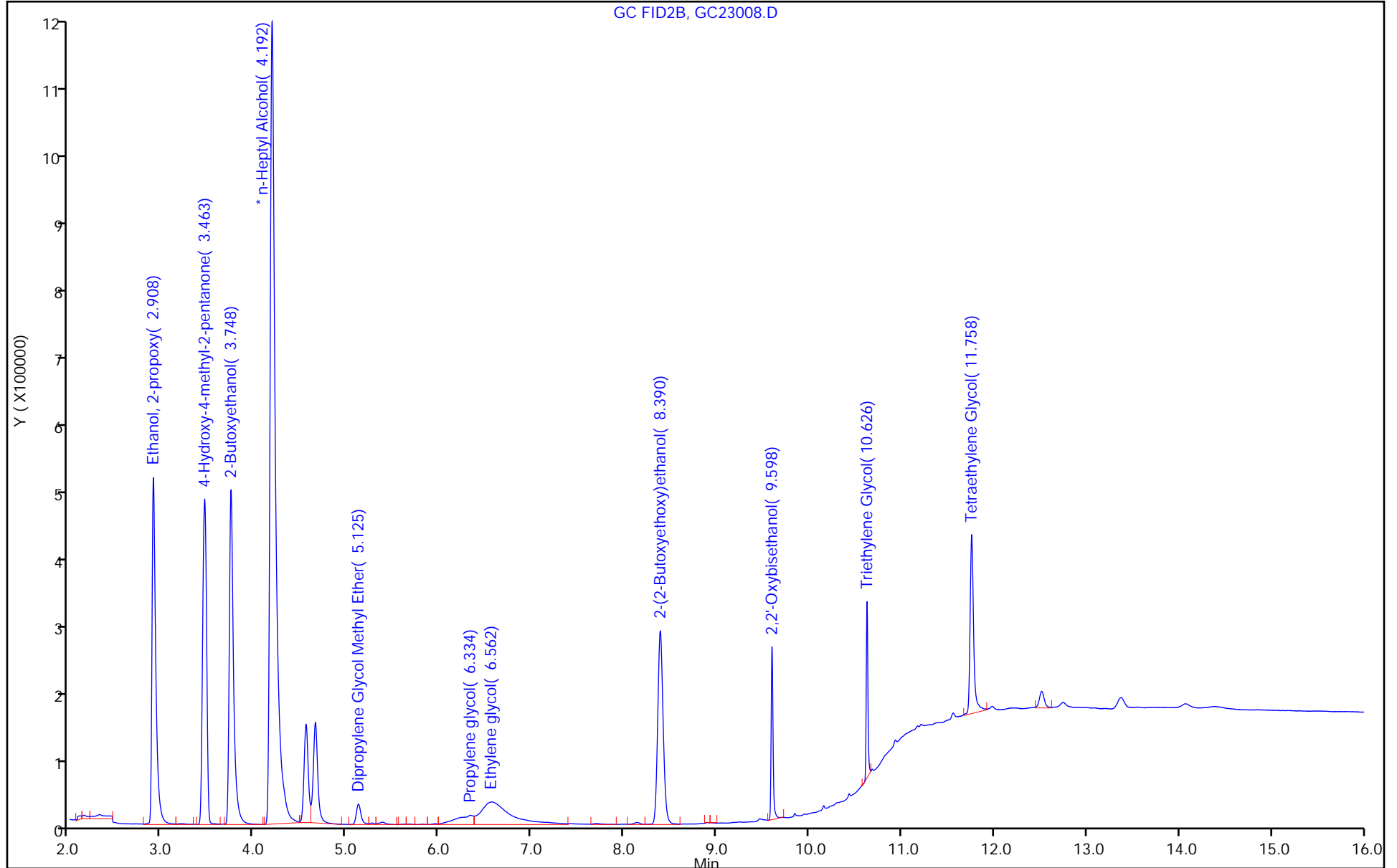
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

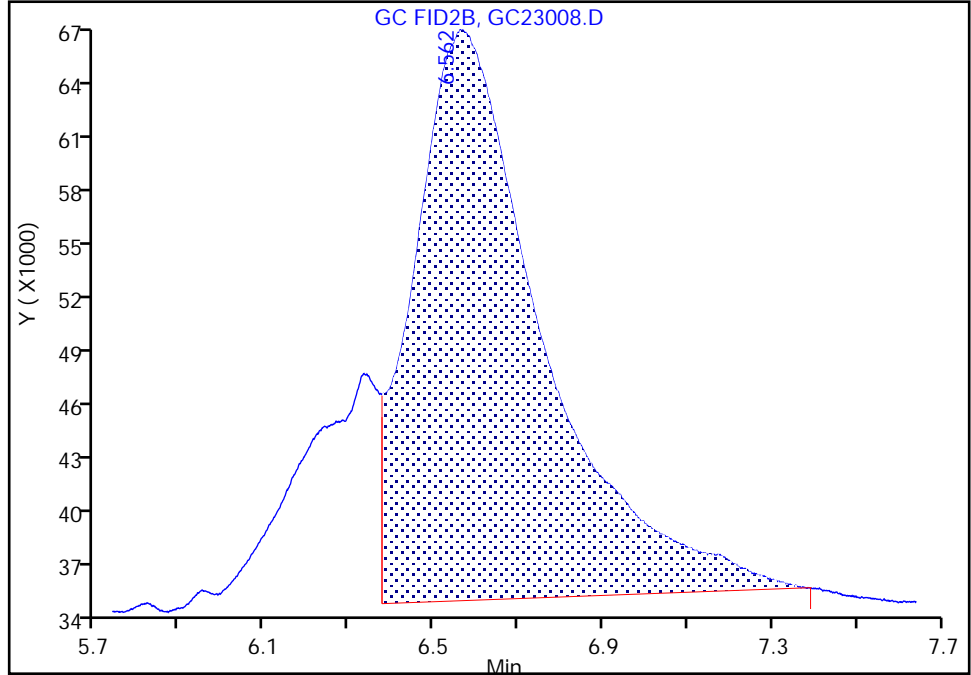
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23008.D
Injection Date: 23-Mar-2023 13:21:27 Instrument ID: CVGG2
Lims ID: icis g4
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

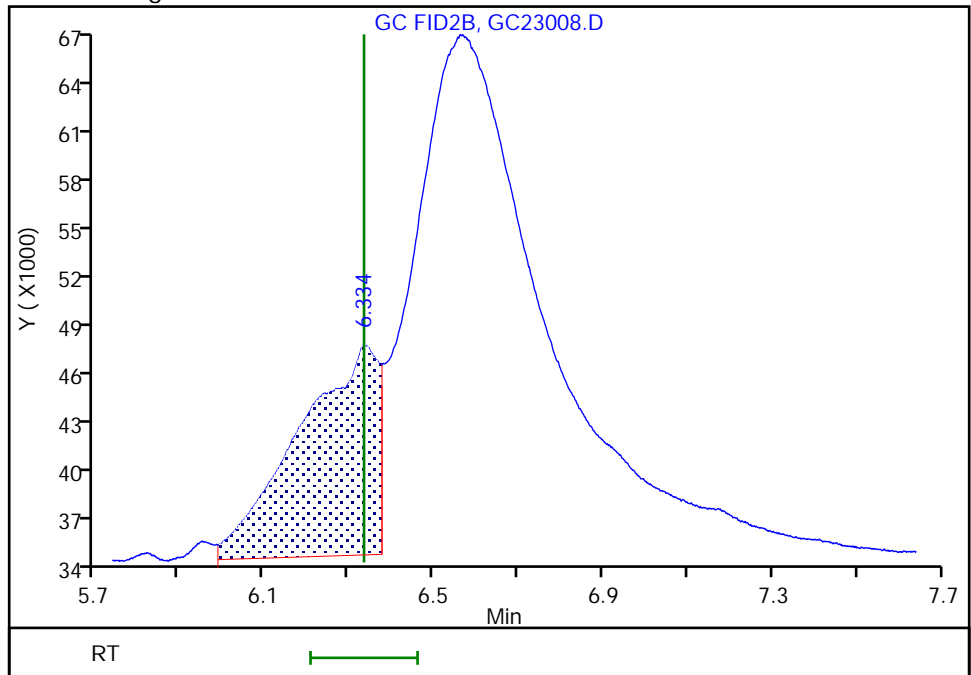
RT: 6.56
Area: 655893
Amount: 17.997827
Amount Units: ug/ml

Processing Integration Results



RT: 6.33
Area: 164124
Amount: 16.243269
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah

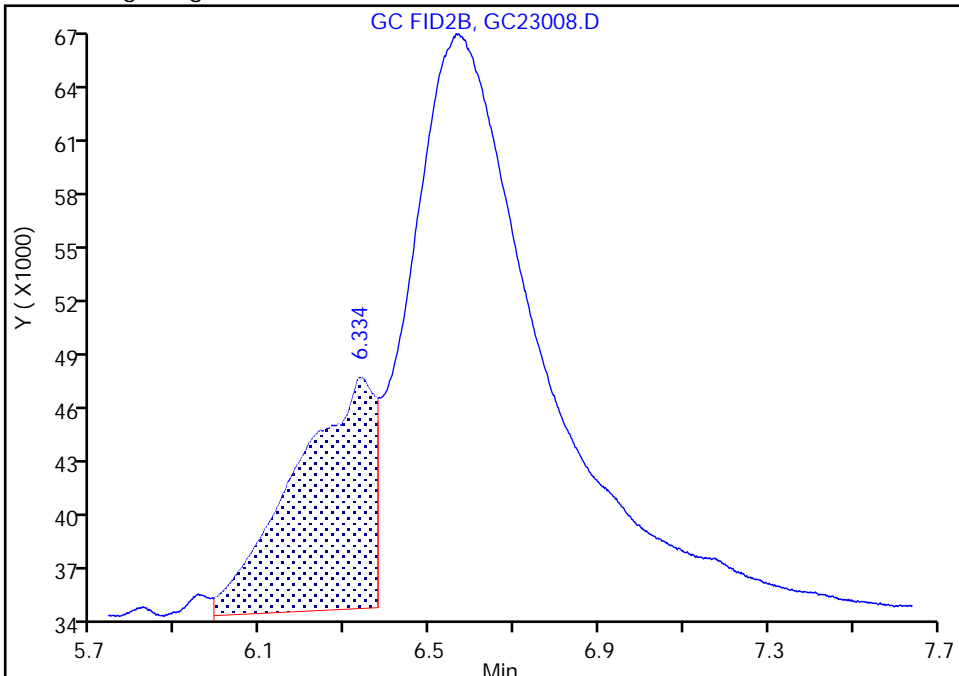
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23008.D
Injection Date: 23-Mar-2023 13:21:27 Instrument ID: CVGG2
Lims ID: icis g4
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

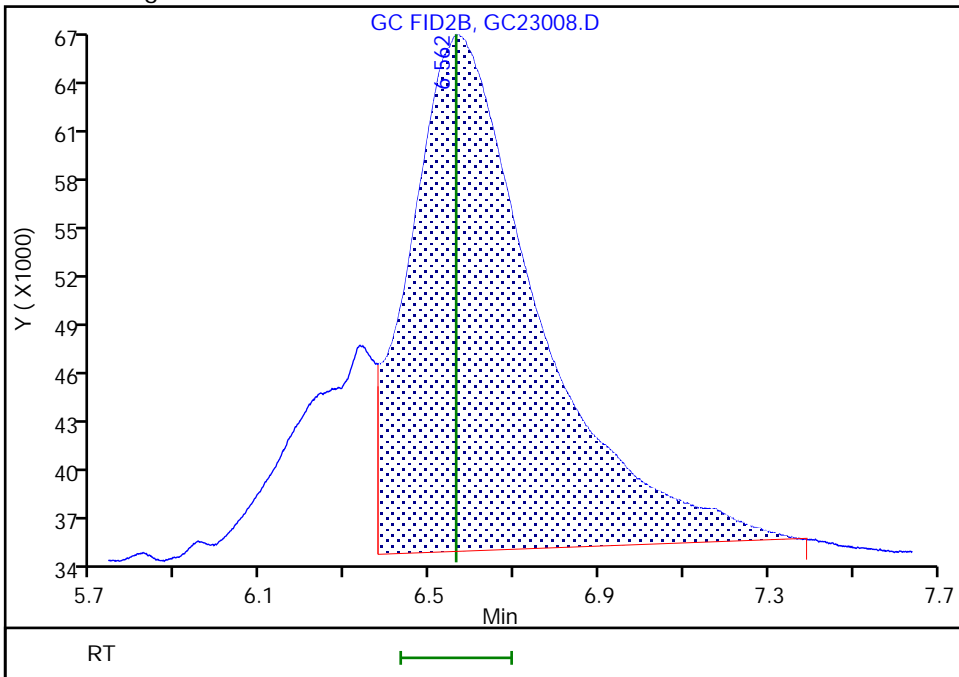
RT: 6.33
Area: 164124
Amount: 6.427622
Amount Units: ug/ml

Processing Integration Results



RT: 6.56
Area: 655893
Amount: 15.870125
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23009.D
 Lims ID: ic g3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 23-Mar-2023 13:44:47 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084624-009
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 24-Mar-2023 13:02:10 Calib Date: 23-Mar-2023 14:31:34
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1629

First Level Reviewer: SWK1 Date: 24-Mar-2023 13:01:17

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
2.904	2.908	-0.004	684138	10.0	10.6	
2 4-Hydroxy-4-methyl-2-pentanone						
3.458	3.463	-0.005	676183	10.0	10.6	
3 2-Butoxyethanol						
3.744	3.748	-0.004	749886	10.0	10.7	
* 4 n-Heptyl Alcohol						
4.190	4.192	-0.002	4553723	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.123	5.125	-0.002	53030	10.0	10.6	
6 Propylene glycol						
6.341	6.334	0.007	123267	10.0	11.0	a
7 Ethylene glycol						
6.561	6.562	-0.001	557188	10.0	13.1	a
8 2-(2-Butoxyethoxy)ethanol						
8.390	8.390	0.000	592831	10.0	10.6	
9 2,2'-Oxybisethanol						
9.598	9.598	0.000	279809	10.0	12.2	
10 Triethylene Glycol						
10.626	10.626	0.000	258184	10.0	12.4	
11 Tetraethylene Glycol						
11.756	11.758	-0.002	539508	20.0	24.9	

QC Flag Legend
Processing Flags

Review Flags

a - User Assigned ID

Reagents:

SG_Gly_CAL_00048

Amount Added: 5.00

Units: uL

SG_GLY_ISTD_00106

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23009.D

Injection Date: 23-Mar-2023 13:44:47

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g3

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

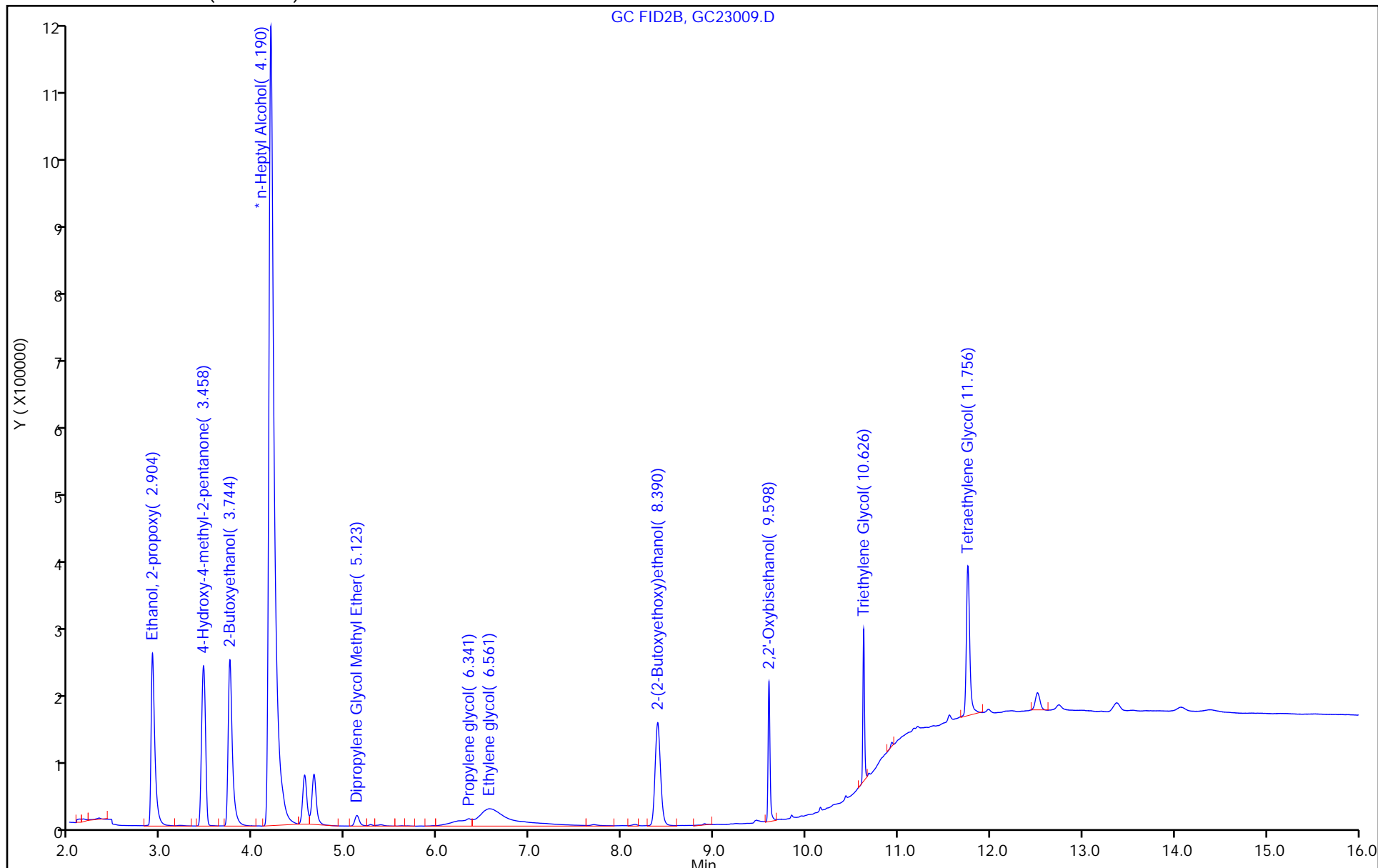
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

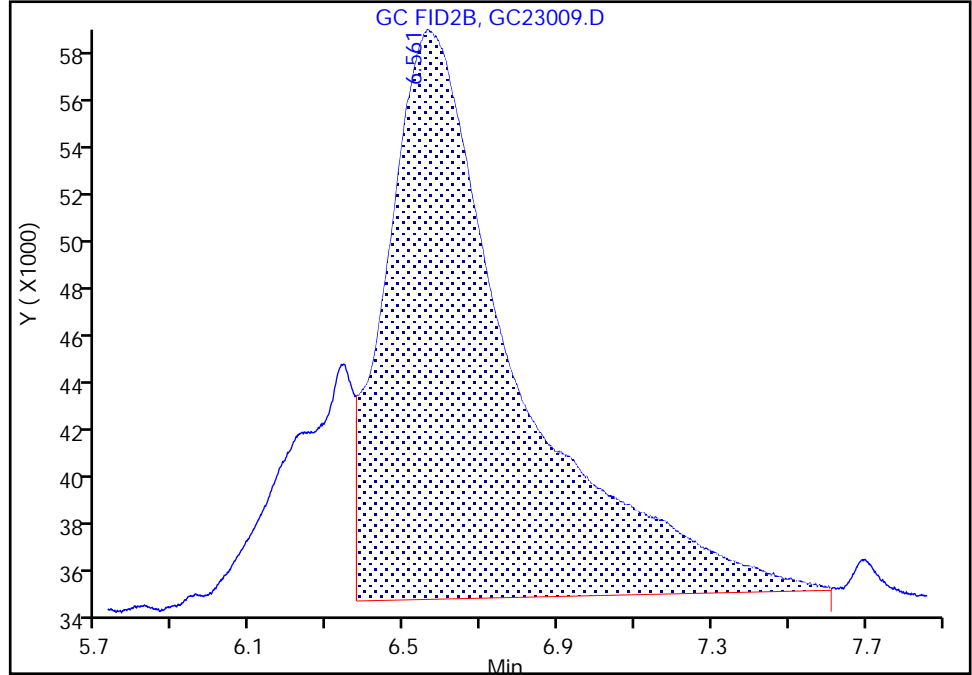
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23009.D
Injection Date: 23-Mar-2023 13:44:47 Instrument ID: CVGG2
Lims ID: ic g3
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

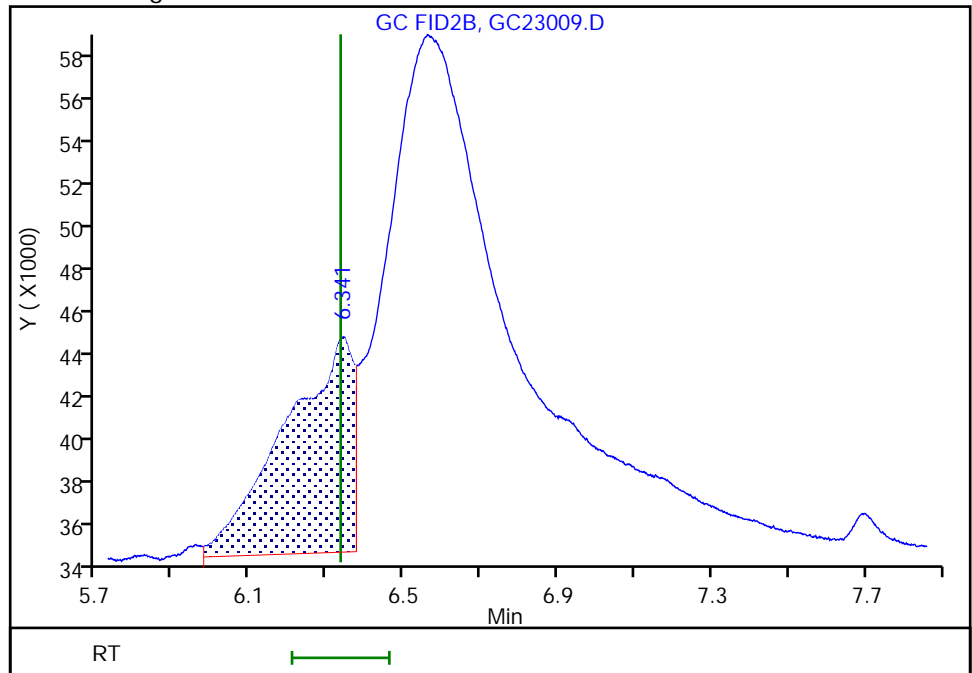
RT: 6.56
Area: 557188
Amount: 16.943601
Amount Units: ug/ml

Processing Integration Results



RT: 6.34
Area: 123267
Amount: 11.046624
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah

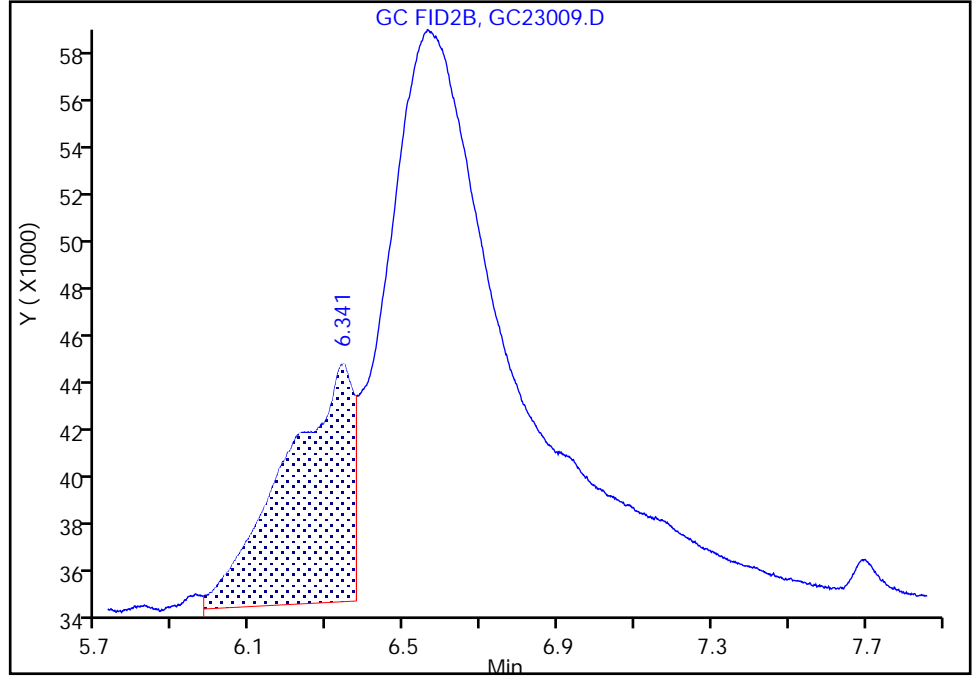
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23009.D
Injection Date: 23-Mar-2023 13:44:47 Instrument ID: CVGG2
Lims ID: ic g3
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

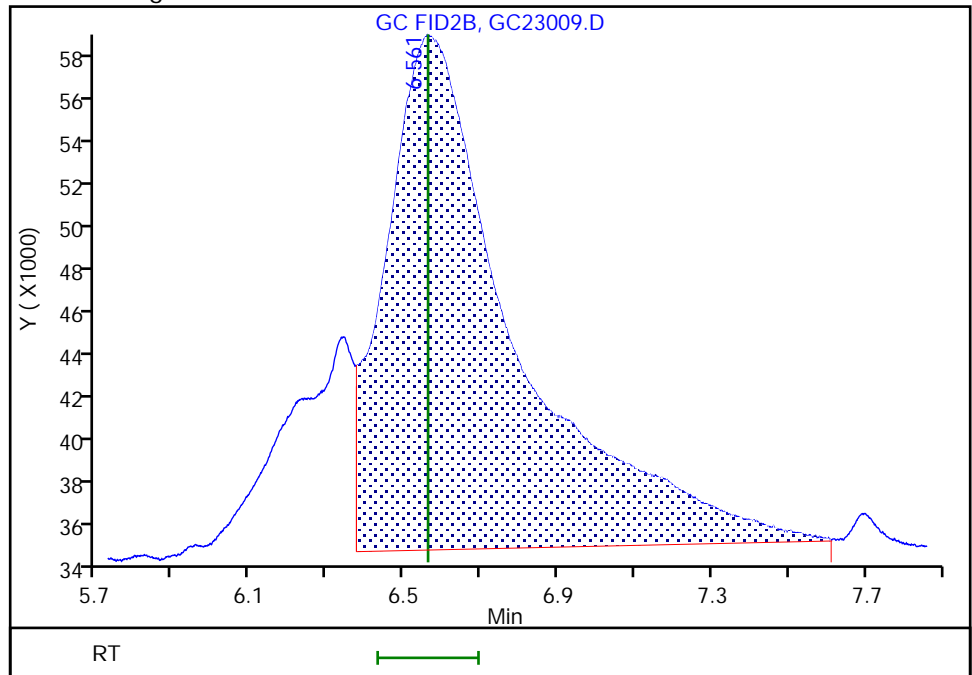
RT: 6.34
Area: 123267
Amount: 6.333369
Amount Units: ug/ml

Processing Integration Results



RT: 6.56
Area: 557188
Amount: 13.084627
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23010.D
 Lims ID: ic g2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 23-Mar-2023 14:08:14 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084624-010
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 24-Mar-2023 13:02:11 Calib Date: 23-Mar-2023 14:31:34
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1629

First Level Reviewer: SWK1 Date: 24-Mar-2023 12:47:15

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
2.906	2.908	-0.002	423678	5.00	4.85	
2 4-Hydroxy-4-methyl-2-pentanone						
3.461	3.463	-0.002	426241	5.00	5.00	
3 2-Butoxyethanol						
3.746	3.748	-0.002	466844	5.00	4.83	
* 4 n-Heptyl Alcohol						
4.187	4.192	-0.005	5303320	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.125	5.125	0.000	32168	5.00	4.63	
6 Propylene glycol						
6.341	6.334	0.007	85044	5.00	4.62	Ma
7 Ethylene glycol						
6.555	6.562	-0.007	279517	5.00	3.95	Ma
8 2-(2-Butoxyethoxy)ethanol						
8.389	8.390	-0.001	388128	5.00	5.00	
9 2,2'-Oxybisethanol						
9.598	9.598	0.000	163602	5.00	3.93	
10 Triethylene Glycol						
10.626	10.626	0.000	144986	5.00	3.89	
11 Tetraethylene Glycol						
11.759	11.758	0.001	312596	10.0	7.69	

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SG_Gly_CAL_00048

Amount Added: 2.50

Units: uL

SG_GLY_ISTD_00106

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23010.D

Injection Date: 23-Mar-2023 14:08:14

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g2

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

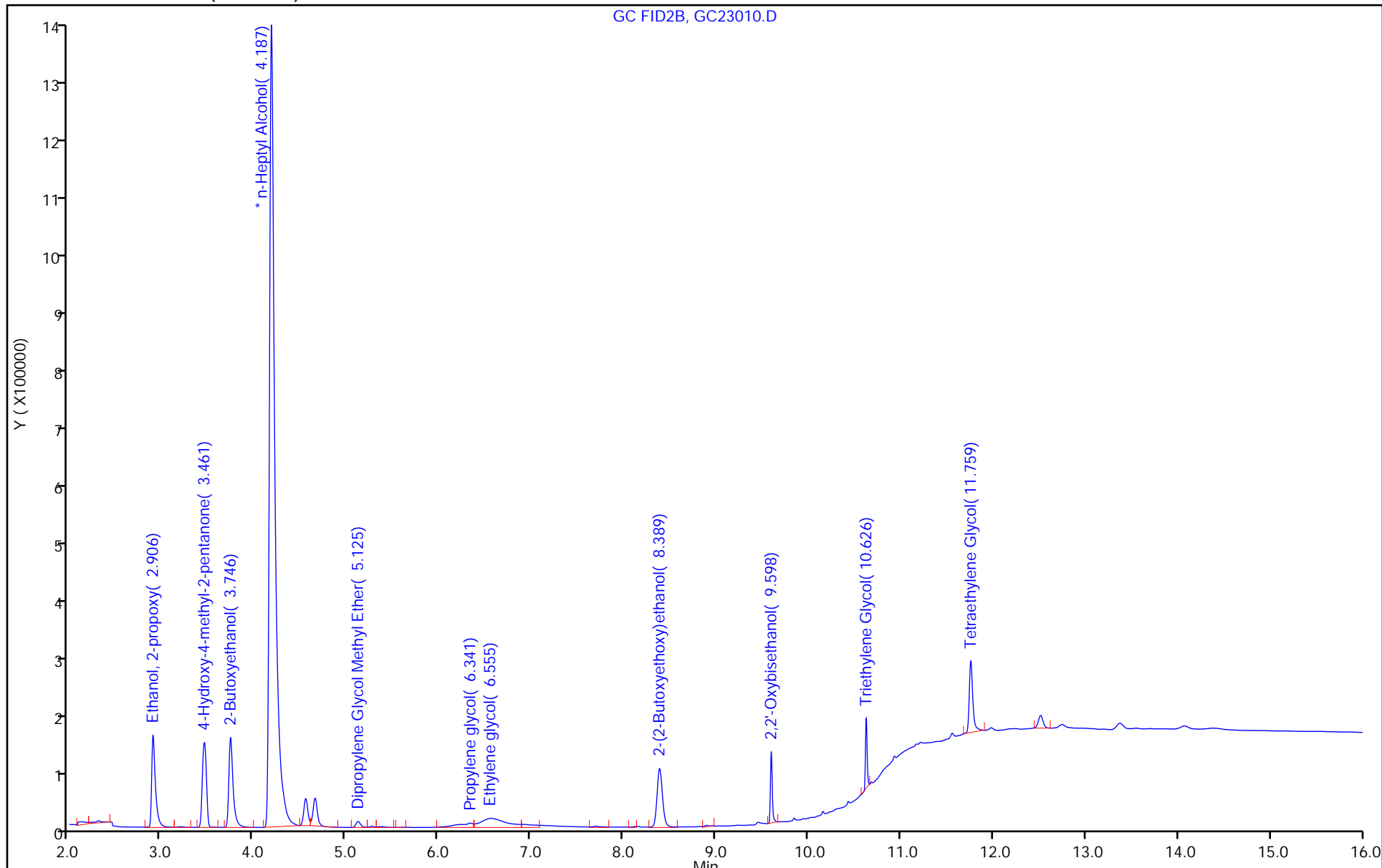
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

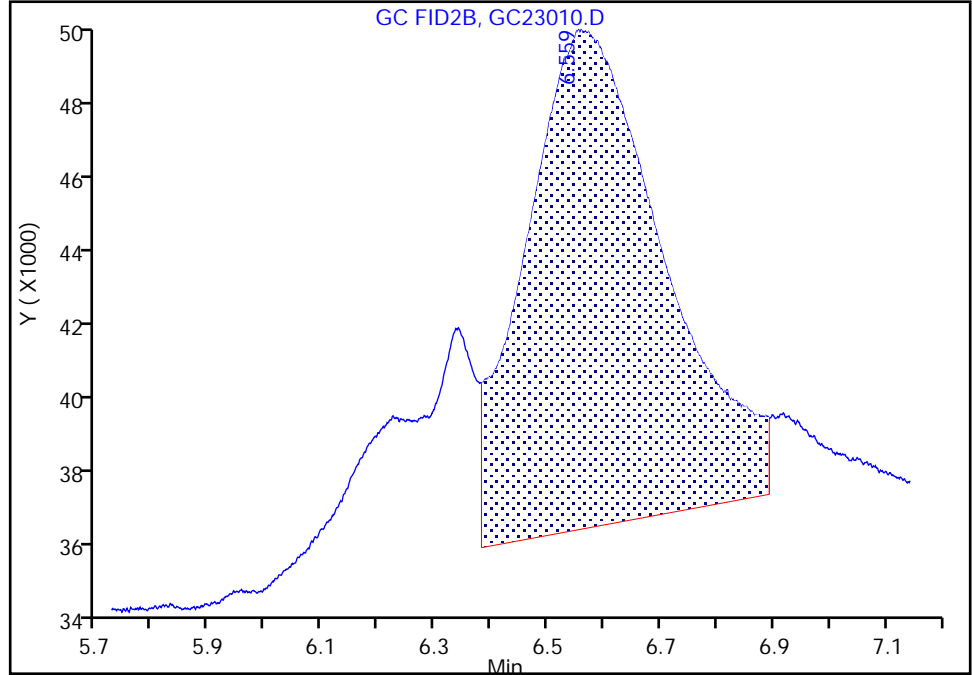
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23010.D
Injection Date: 23-Mar-2023 14:08:14 Instrument ID: CVGG2
Lims ID: ic g2
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

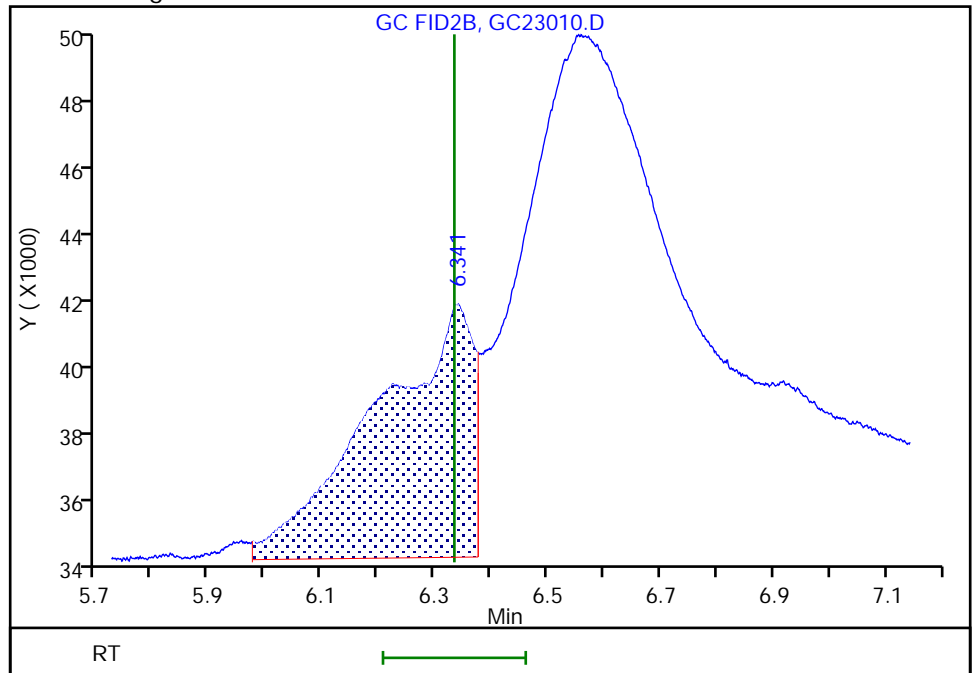
RT: 6.56
Area: 213942
Amount: 3.508669
Amount Units: ug/ml

Processing Integration Results



RT: 6.34
Area: 85044
Amount: 4.620505
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 24-Mar-2023 13:01:19

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

Eurofins Savannah

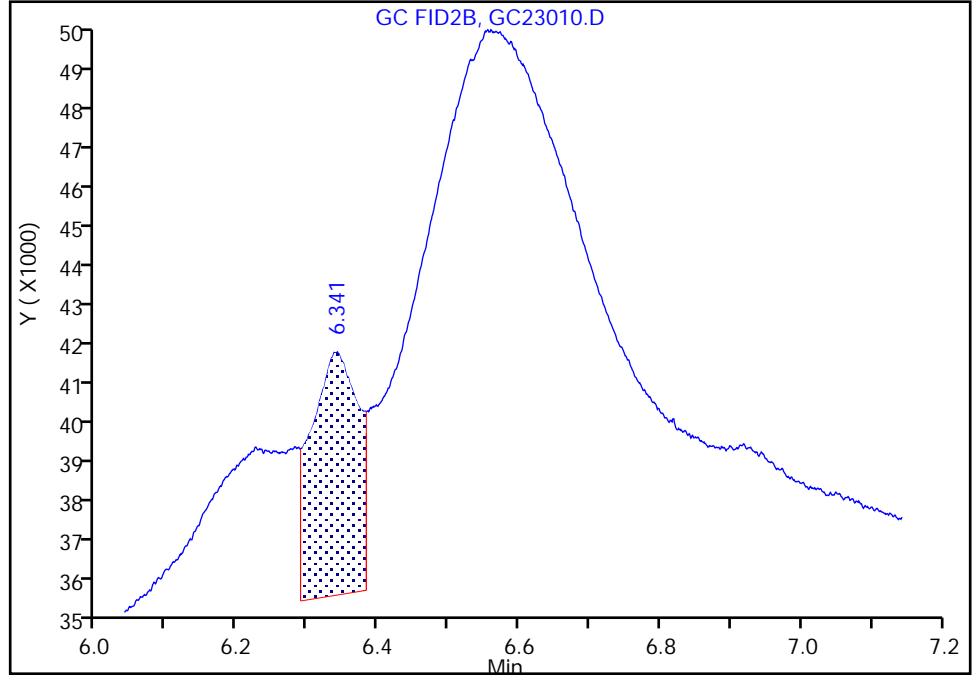
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23010.D
Injection Date: 23-Mar-2023 14:08:14 Instrument ID: CVGG2
Lims ID: ic g2
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

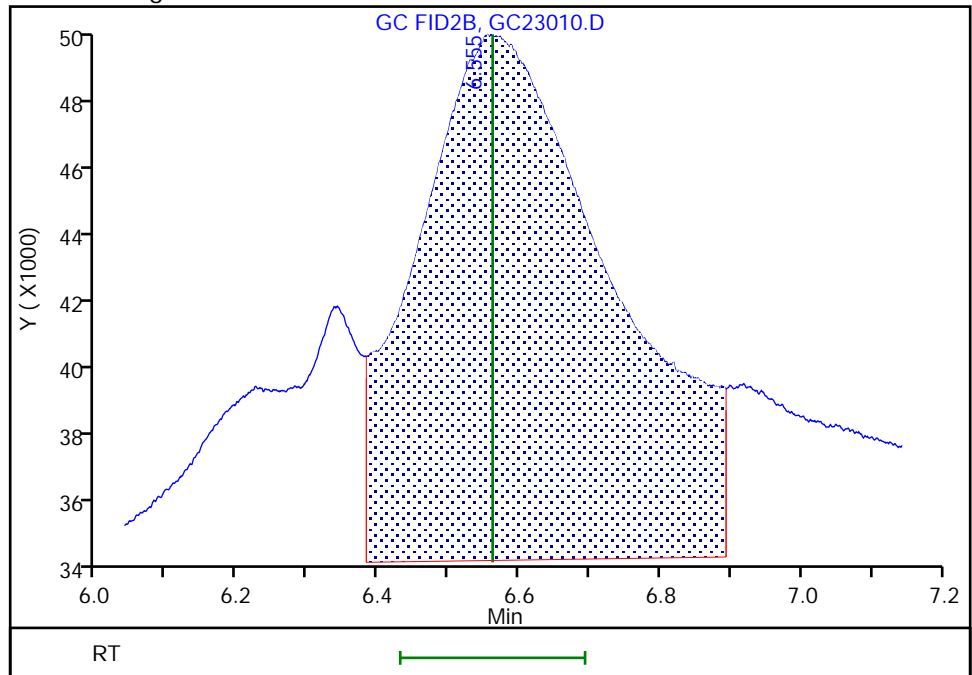
RT: 6.34
Area: 26032
Amount: 1.906585
Amount Units: ug/ml

Processing Integration Results



RT: 6.55
Area: 279517
Amount: 3.946615
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 24-Mar-2023 13:01:21

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
 Lims ID: ic g1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 23-Mar-2023 14:31:34 ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084624-011
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 24-Mar-2023 13:02:12 Calib Date: 23-Mar-2023 14:31:34
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1629

First Level Reviewer: SK9U Date: 23-Mar-2023 18:29:15

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
2.899	2.908	-0.009	222606	2.00	1.98	
2 4-Hydroxy-4-methyl-2-pentanone						
3.448	3.463	-0.015	214846	2.00	1.95	
3 2-Butoxyethanol						
3.743	3.748	-0.005	249990	2.00	1.98	
* 4 n-Heptyl Alcohol						
4.195	4.192	0.003	4950960	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.118	5.125	-0.007	17889	2.00	2.02	
6 Propylene glycol						
6.331	6.334	-0.003	59077	2.00	2.23	Ma
7 Ethylene glycol						
6.547	6.562	-0.015	202034	2.00	2.37	Ma
8 2-(2-Butoxyethoxy)ethanol						
8.387	8.390	-0.003	210143	2.00	1.97	
9 2,2'-Oxybisethanol						
9.598	9.598	0.000	134591	2.00	2.92	
10 Triethylene Glycol						
10.626	10.626	0.000	122005	2.00	3.09	
11 Tetraethylene Glycol						
11.759	11.758	0.001	258240	4.00	5.66	

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SG_Gly_CAL_00048

Amount Added: 1.00

Units: uL

SG_GLY_ISTD_00106

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D

Injection Date: 23-Mar-2023 14:31:34

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g1

Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 ul

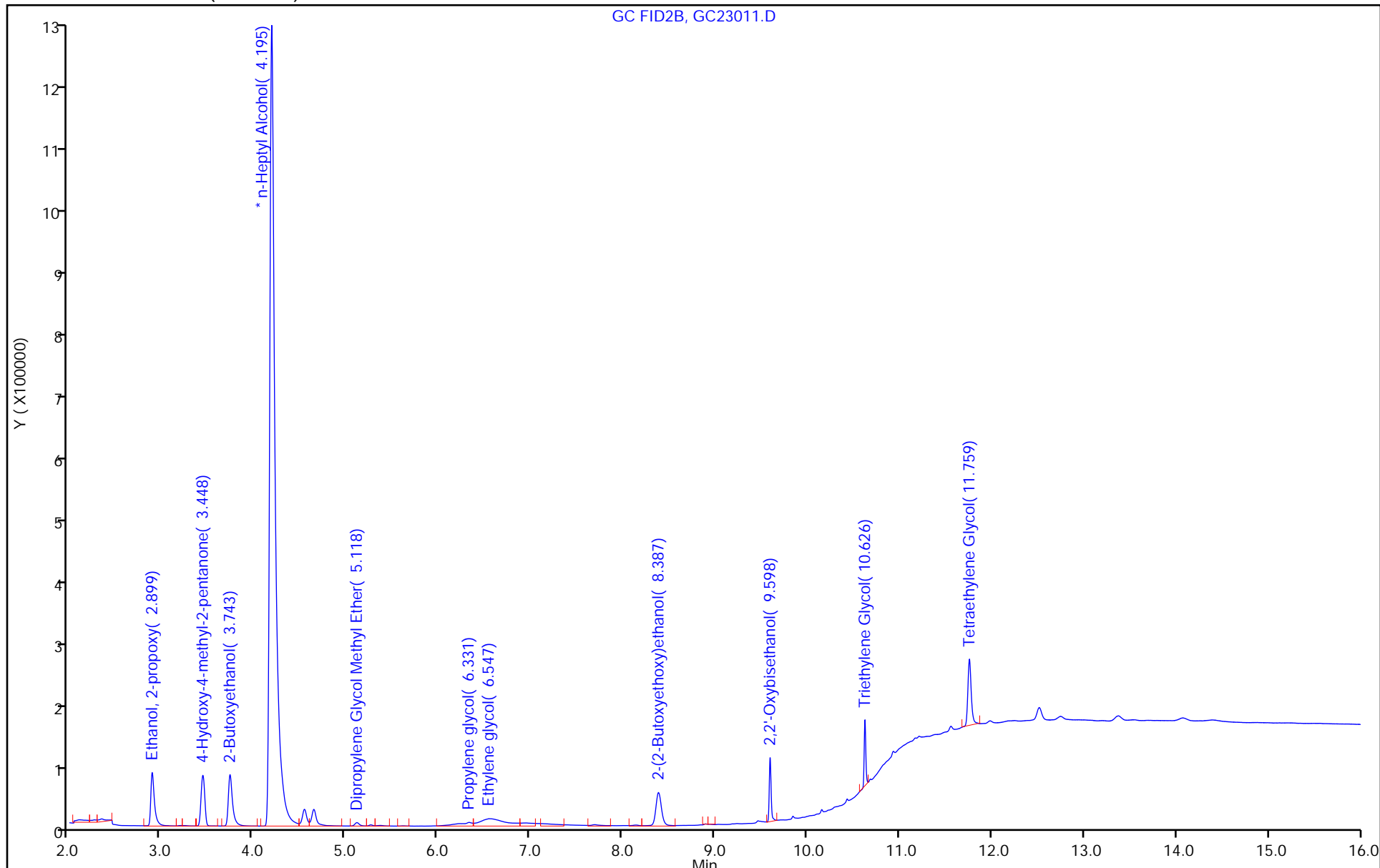
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

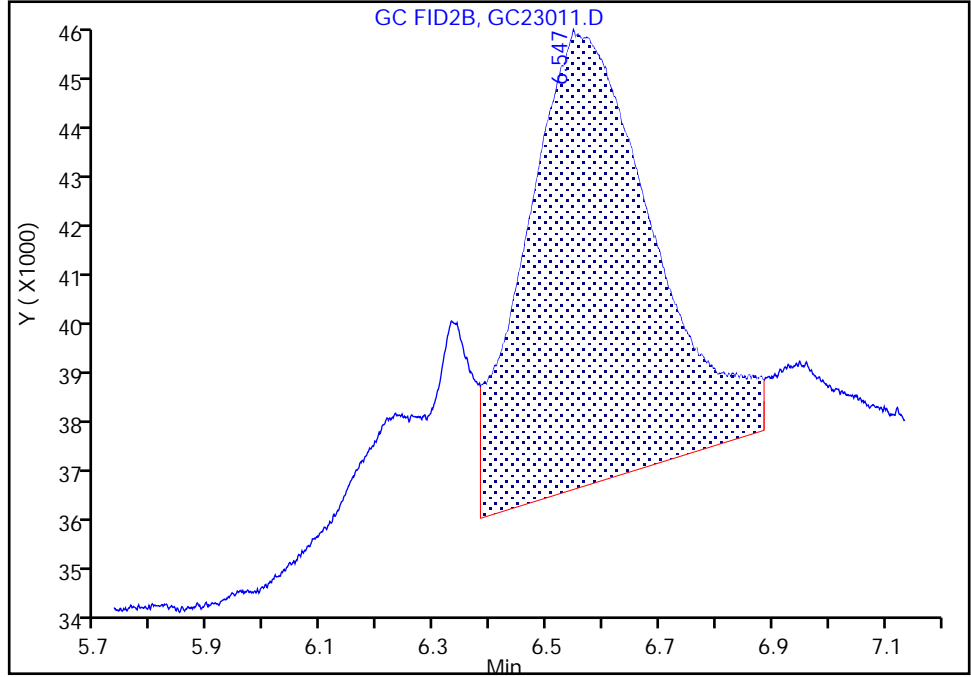
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
Injection Date: 23-Mar-2023 14:31:34 Instrument ID: CVGG2
Lims ID: ic g1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

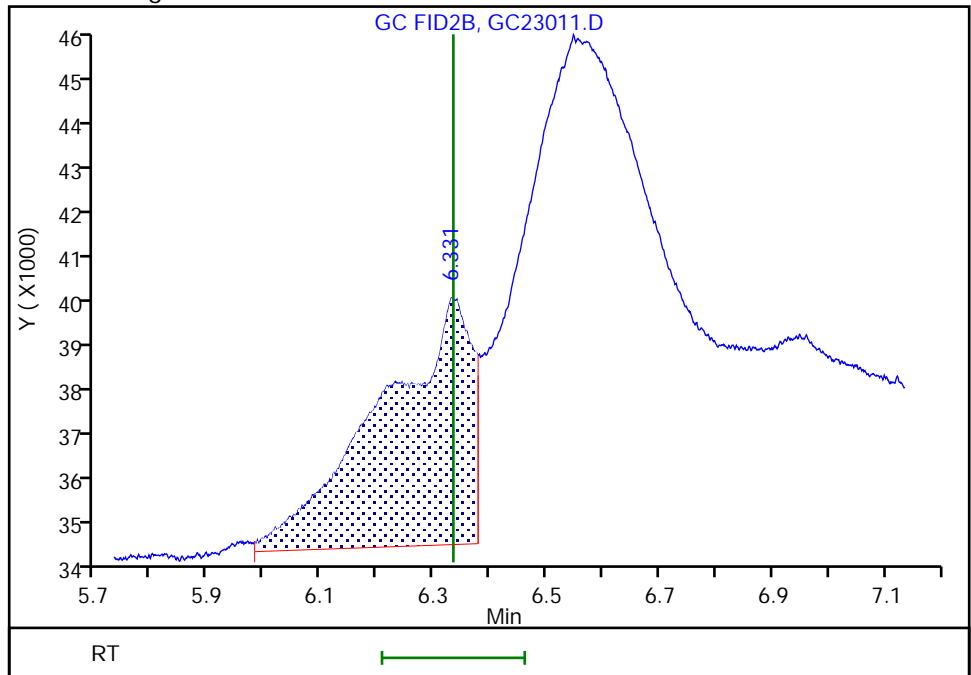
RT: 6.55
Area: 136953
Amount: 1.351640
Amount Units: ug/ml

Processing Integration Results



RT: 6.33
Area: 59077
Amount: 2.230516
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 24-Mar-2023 13:01:28

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

Eurofins Savannah

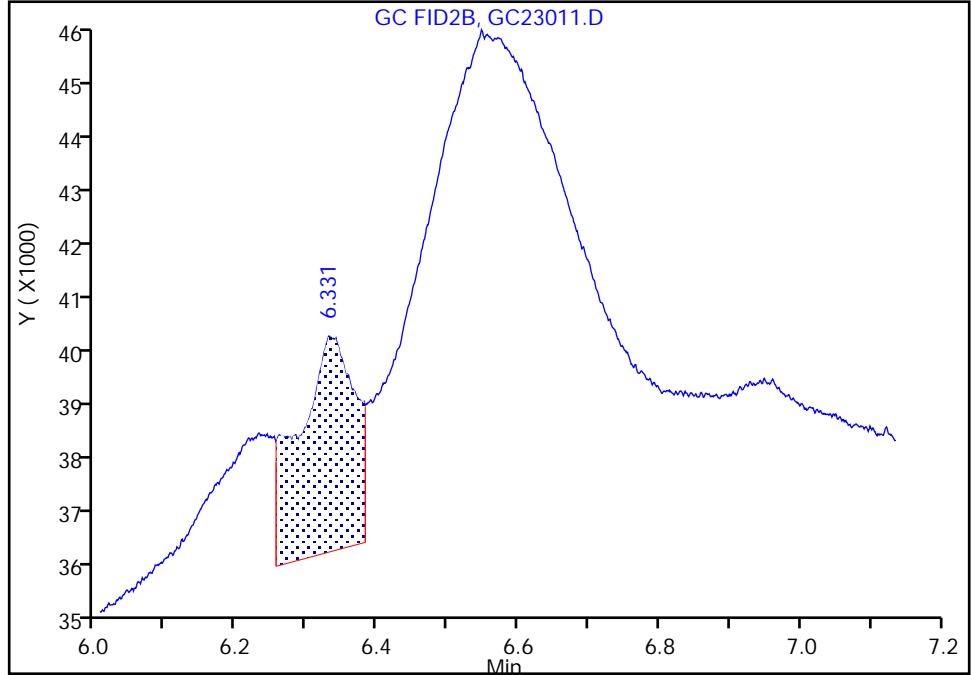
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
Injection Date: 23-Mar-2023 14:31:34 Instrument ID: CVGG2
Lims ID: ic g1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

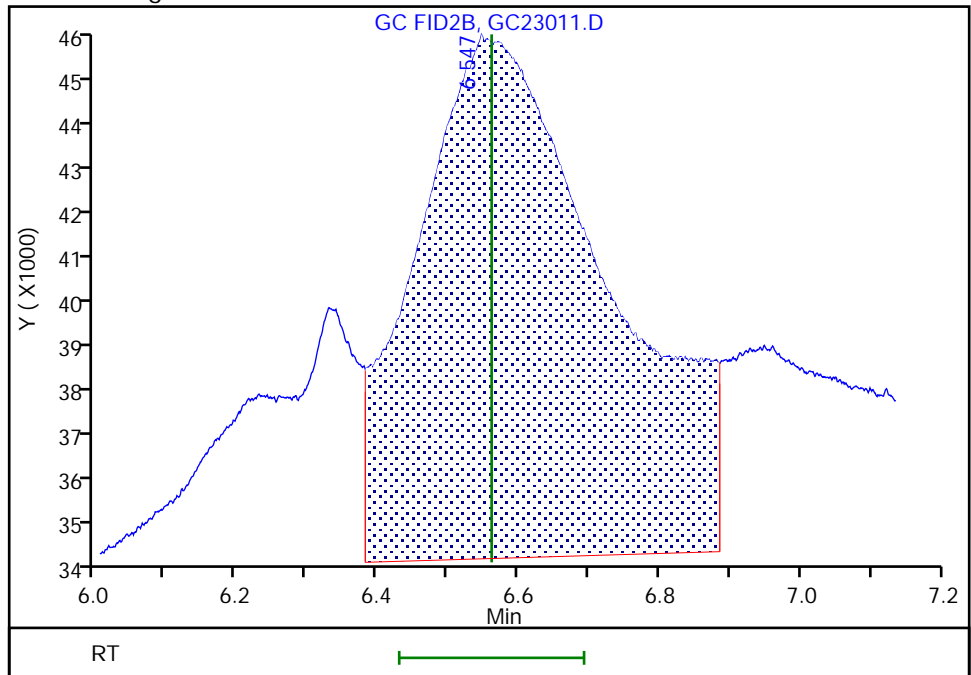
RT: 6.33
Area: 22106
Amount: 2.422400
Amount Units: ug/ml

Processing Integration Results



RT: 6.55
Area: 202034
Amount: 2.369169
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 24-Mar-2023 13:01:25

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

Calibration

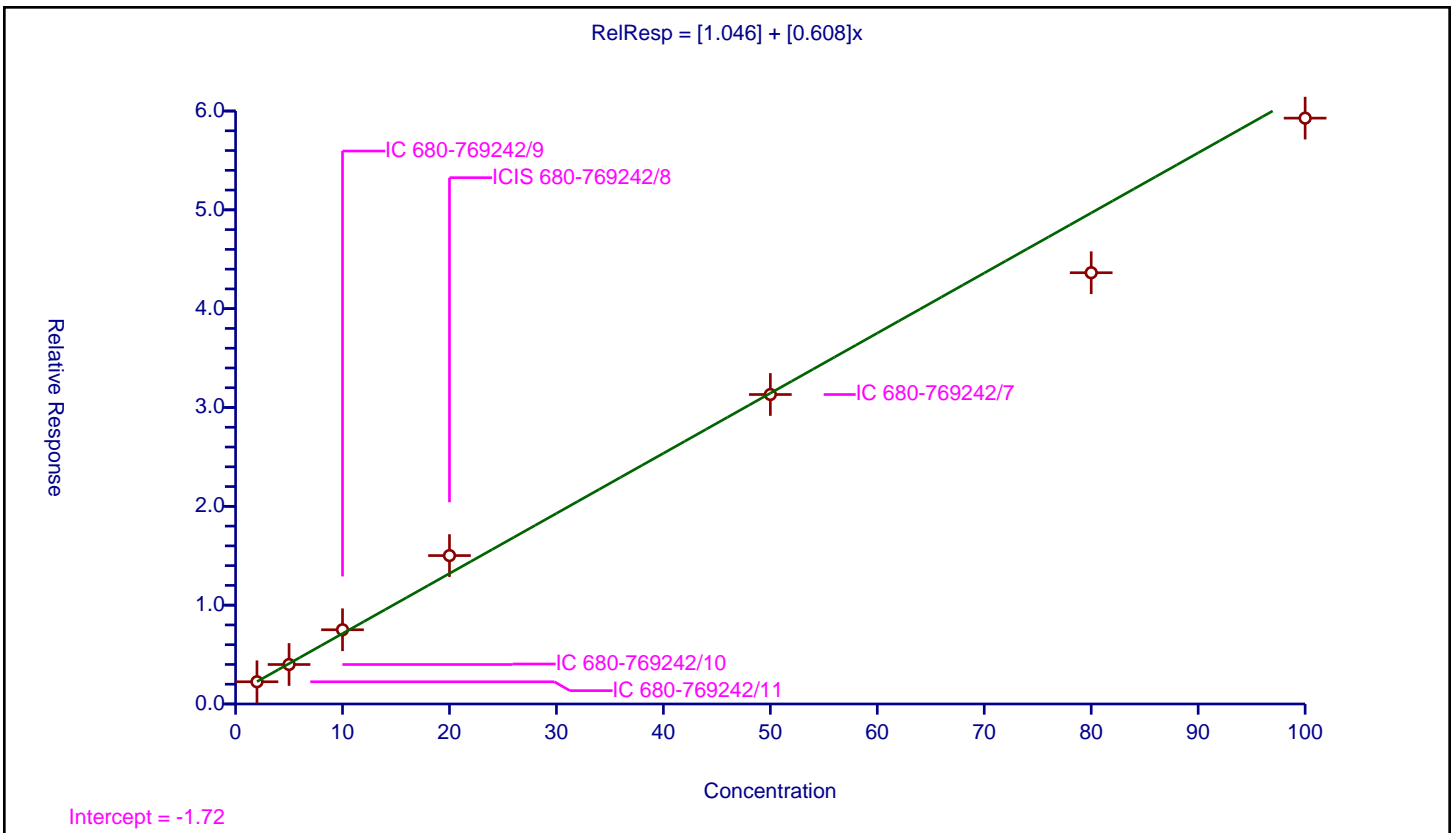
/ Ethanol, 2-propoxy

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

Curve Coefficients	
Intercept:	1.046
Slope:	0.608

Error Coefficients	
Standard Error:	3550000
Relative Standard Error:	9.4
Correlation Coefficient:	0.974
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-769242/11	2.0	2.248109	50.0	4950960.0	1.124055	Y
2	IC 680-769242/10	5.0	3.99446	50.0	5303320.0	0.798892	Y
3	IC 680-769242/9	10.0	7.511853	50.0	4553723.0	0.751185	Y
4	ICIS 680-769242/8	20.0	15.017138	50.0	4560010.0	0.750857	Y
5	IC 680-769242/7	50.0	31.315734	50.0	4243838.0	0.626315	Y
6	IC 680-769242/6	80.0	43.63751	50.0	4480966.0	0.545469	Y
7	IC 680-769242/5	100.0	59.278797	50.0	5210584.0	0.592788	Y



Calibration

/ 4-Hydroxy-4-methyl-2-pentanone

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

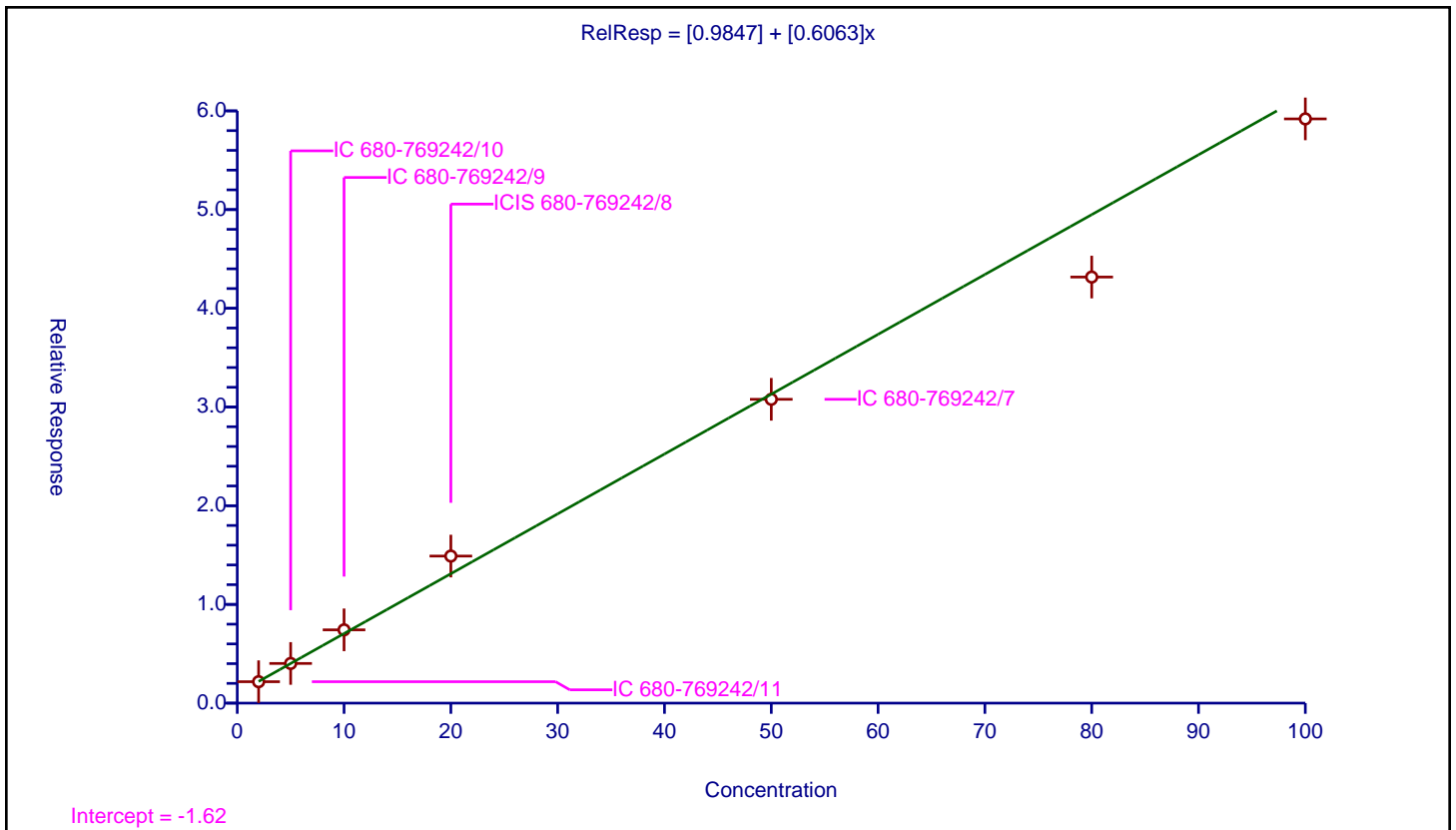
Curve Coefficients

Intercept: 0.9847
 Slope: 0.6063

Error Coefficients

Standard Error: 3530000
 Relative Standard Error: 9.5
 Correlation Coefficient: 0.972
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-769242/11	2.0	2.169741	50.0	4950960.0	1.08487	Y
2	IC 680-769242/10	5.0	4.018624	50.0	5303320.0	0.803725	Y
3	IC 680-769242/9	10.0	7.424507	50.0	4553723.0	0.742451	Y
4	ICIS 680-769242/8	20.0	14.89773	50.0	4560010.0	0.744887	Y
5	IC 680-769242/7	50.0	30.779309	50.0	4243838.0	0.615586	Y
6	IC 680-769242/6	80.0	43.166462	50.0	4480966.0	0.539581	Y
7	IC 680-769242/5	100.0	59.1866	50.0	5210584.0	0.591866	Y



Calibration

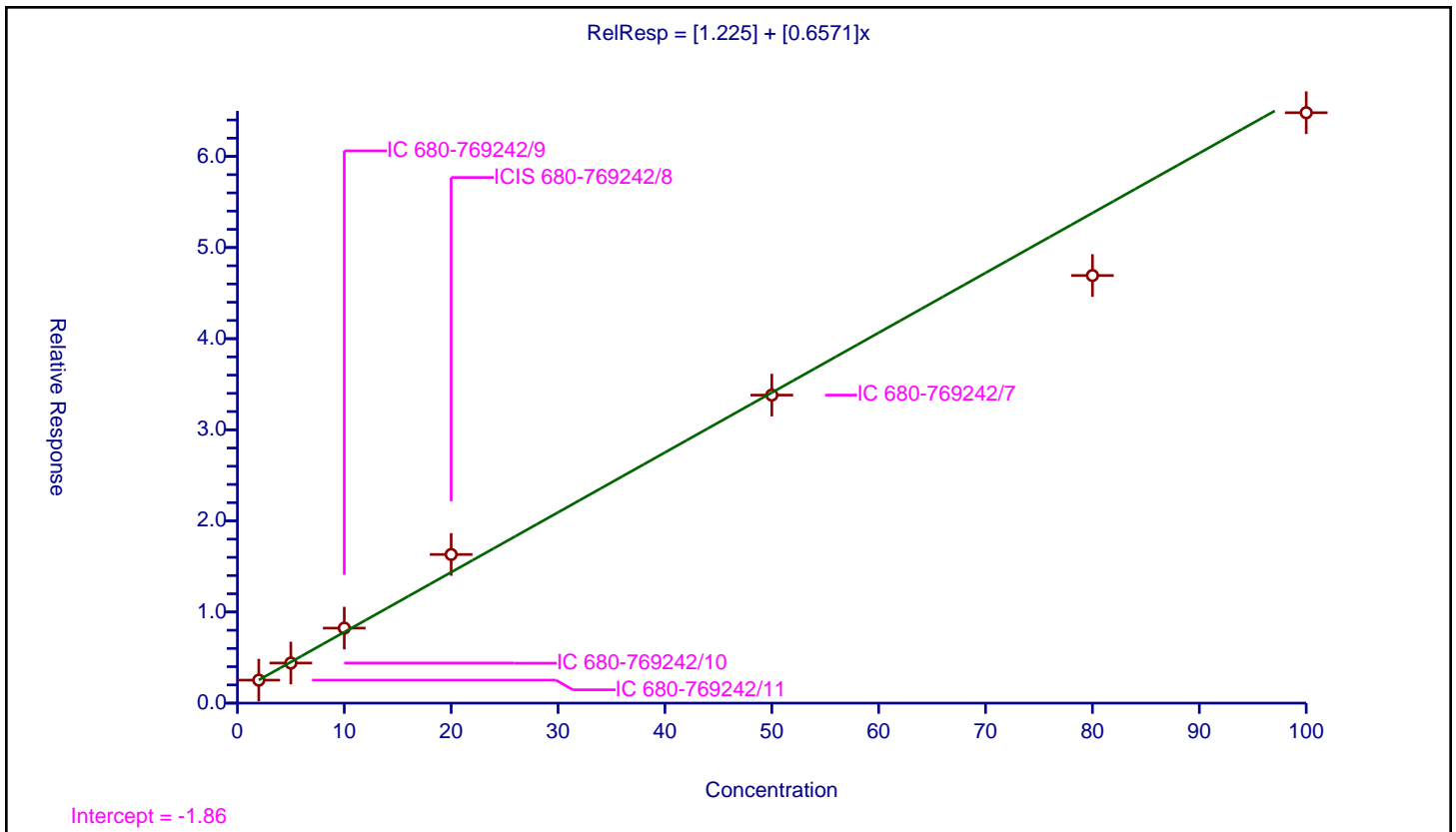
/ 2-Butoxyethanol

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

Curve Coefficients	
Intercept:	1.225
Slope:	0.6571

Error Coefficients	
Standard Error:	3860000
Relative Standard Error:	9.6
Correlation Coefficient:	0.971
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-769242/11	2.0	2.524662	50.0	4950960.0	1.262331	Y
2	IC 680-769242/10	5.0	4.401432	50.0	5303320.0	0.880286	Y
3	IC 680-769242/9	10.0	8.233768	50.0	4553723.0	0.823377	Y
4	ICIS 680-769242/8	20.0	16.315052	50.0	4560010.0	0.815753	Y
5	IC 680-769242/7	50.0	33.807959	50.0	4243838.0	0.676159	Y
6	IC 680-769242/6	80.0	46.930852	50.0	4480966.0	0.586636	Y
7	IC 680-769242/5	100.0	64.798629	50.0	5210584.0	0.647986	Y



Calibration

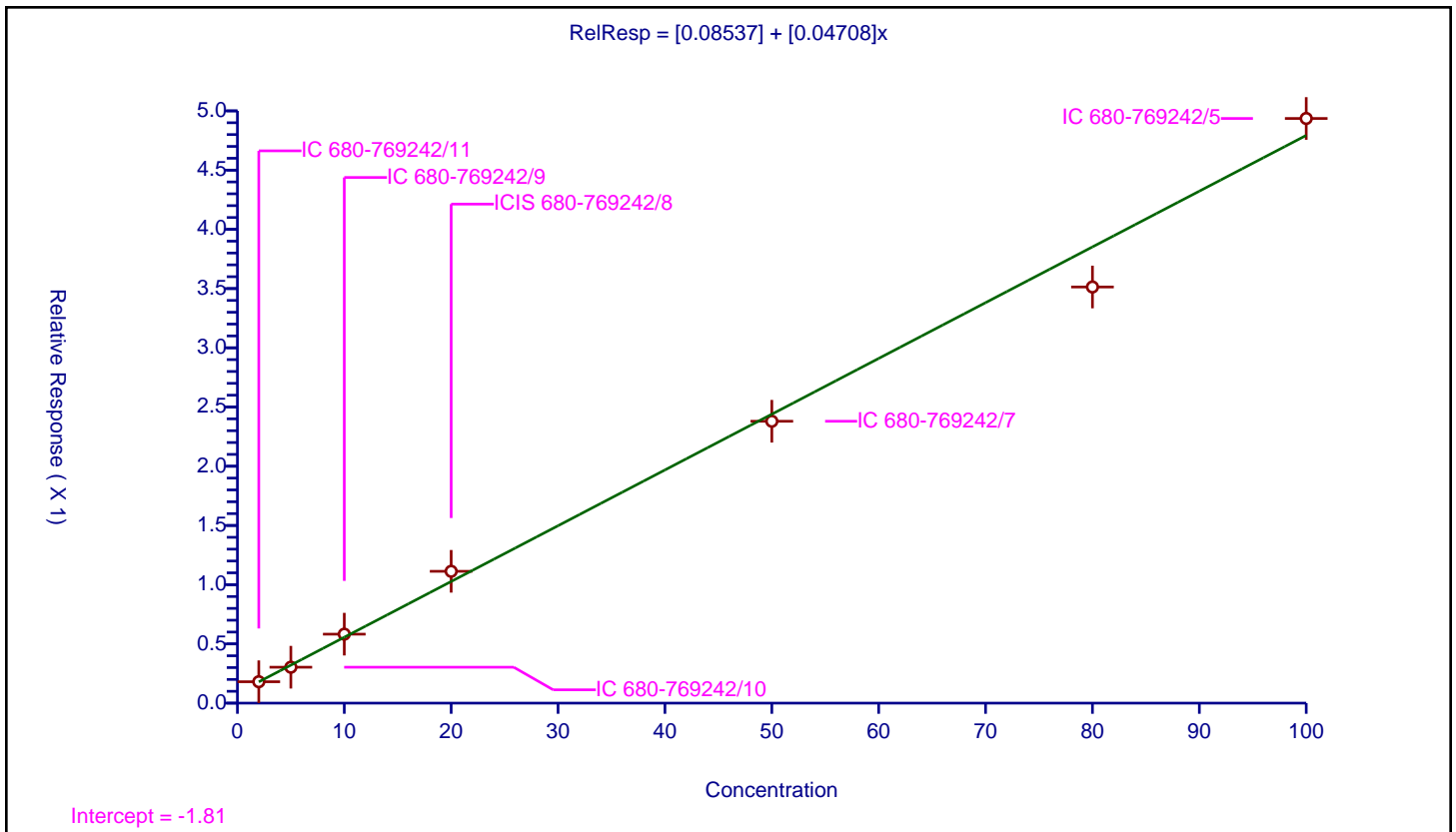
/ Dipropylene Glycol Methyl Ether

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

Curve Coefficients	
Intercept:	0.08537
Slope:	0.04708

Error Coefficients	
Standard Error:	289000
Relative Standard Error:	7.3
Correlation Coefficient:	0.966
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-769242/11	2.0	0.180662	50.0	4950960.0	0.090331	Y
2	IC 680-769242/10	5.0	0.303282	50.0	5303320.0	0.060656	Y
3	IC 680-769242/9	10.0	0.582271	50.0	4553723.0	0.058227	Y
4	ICIS 680-769242/8	20.0	1.113002	50.0	4560010.0	0.05565	Y
5	IC 680-769242/7	50.0	2.379756	50.0	4243838.0	0.047595	Y
6	IC 680-769242/6	80.0	3.513294	50.0	4480966.0	0.043916	Y
7	IC 680-769242/5	100.0	4.935953	50.0	5210584.0	0.04936	Y



Calibration

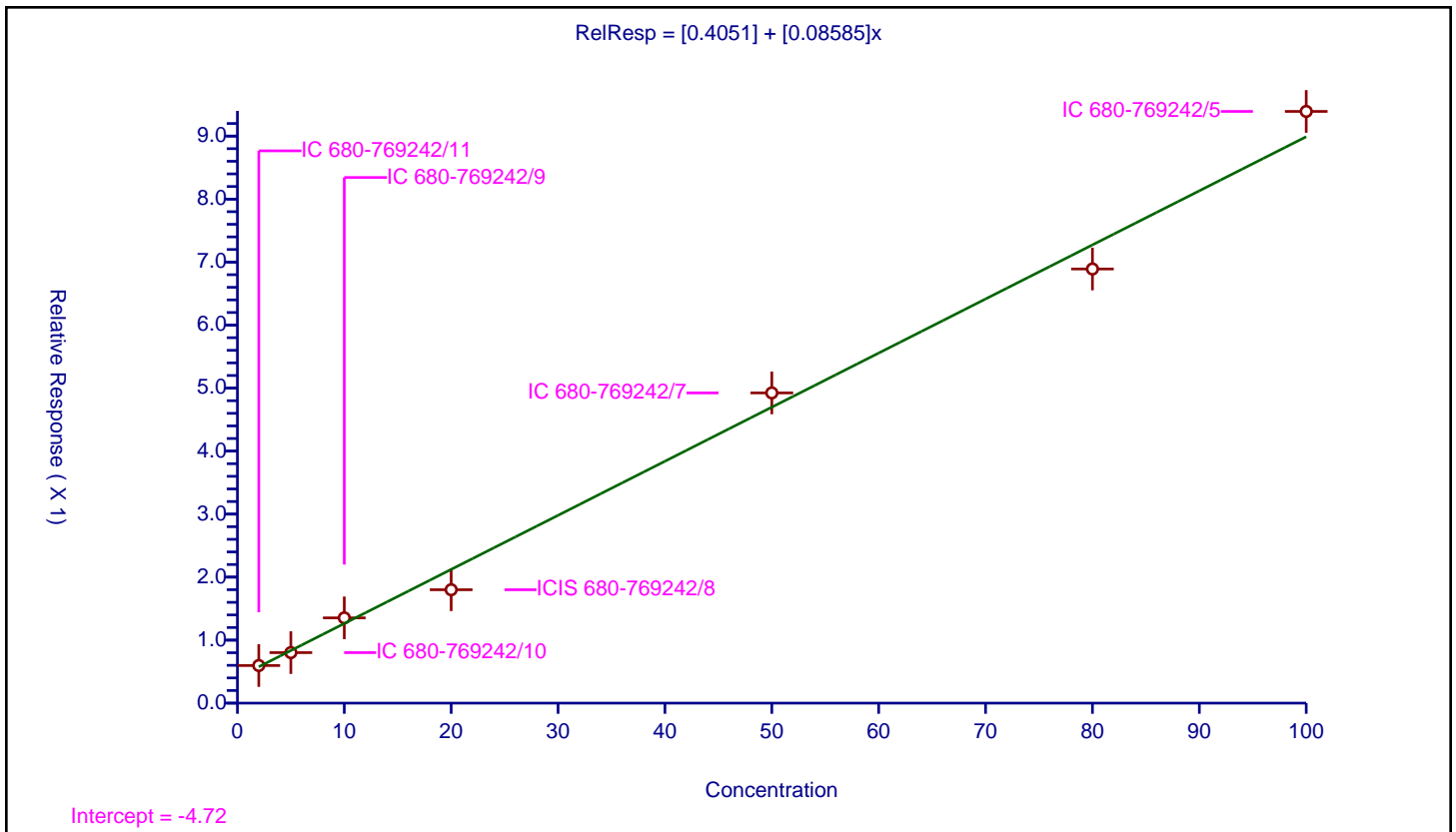
/ Propylene glycol

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

Curve Coefficients	
Intercept:	0.4051
Slope:	0.08585

Error Coefficients	
Standard Error:	560000
Relative Standard Error:	12.1
Correlation Coefficient:	0.971
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-769242/11	2.0	0.596622	50.0	4950960.0	0.298311	Y
2	IC 680-769242/10	5.0	0.8018	50.0	5303320.0	0.16036	Y
3	IC 680-769242/9	10.0	1.353475	50.0	4553723.0	0.135347	Y
4	ICIS 680-769242/8	20.0	1.799601	50.0	4560010.0	0.08998	Y
5	IC 680-769242/7	50.0	4.923904	50.0	4243838.0	0.098478	Y
6	IC 680-769242/6	80.0	6.890545	50.0	4480966.0	0.086132	Y
7	IC 680-769242/5	100.0	9.391654	50.0	5210584.0	0.093917	Y



Calibration

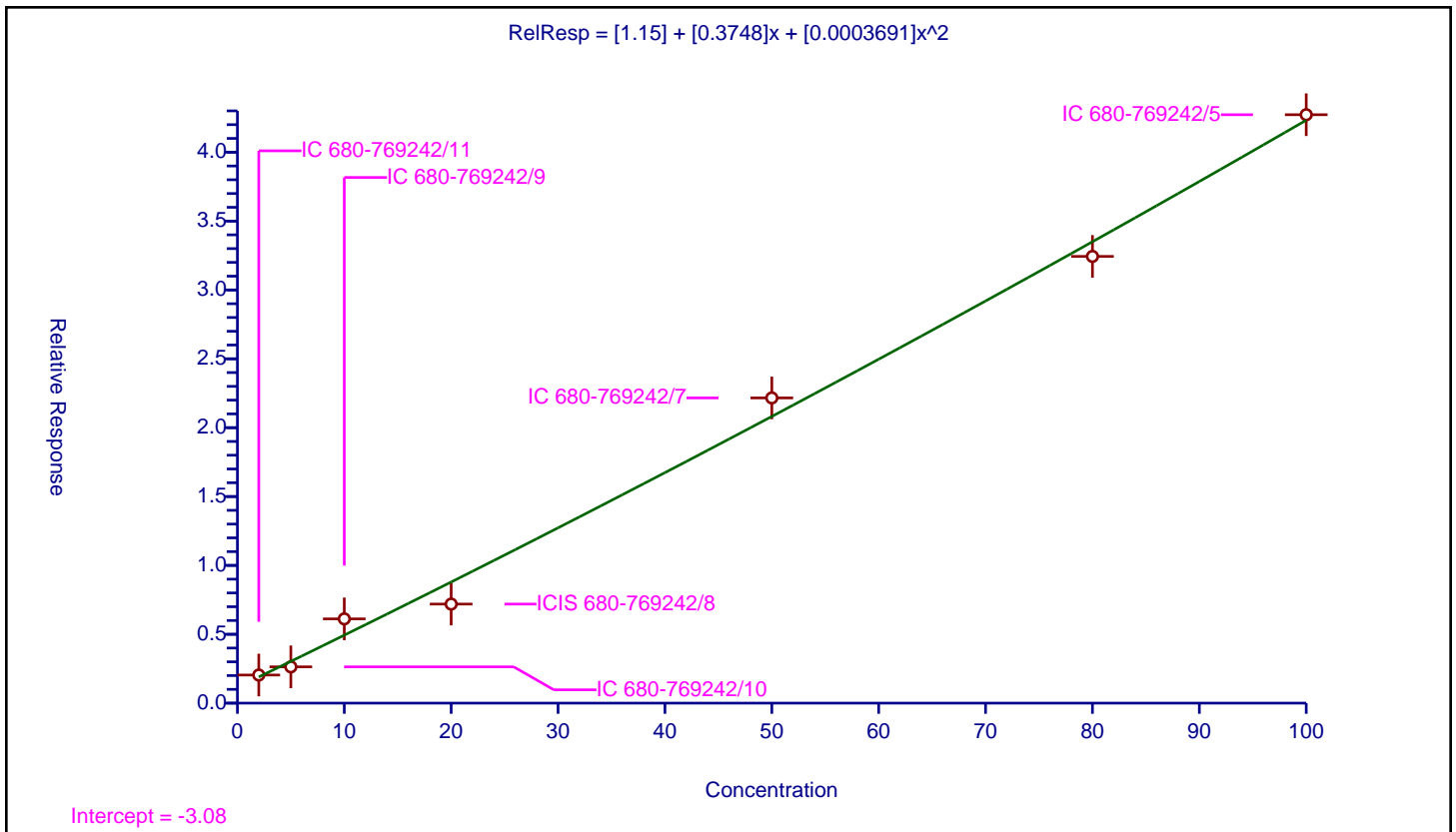
/ Ethylene glycol

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

Curve Coefficients	
Intercept:	1.15
Slope:	0.3748
Second Order:	0.0003691

Error Coefficients	
Standard Error:	2860000
Relative Standard Error:	23.5
Correlation Coefficient:	0.982
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-769242/11	2.0	2.040352	50.0	4950960.0	1.020176	Y
2	IC 680-769242/10	5.0	2.635302	50.0	5303320.0	0.52706	Y
3	IC 680-769242/9	10.0	6.117939	50.0	4553723.0	0.611794	Y
4	ICIS 680-769242/8	20.0	7.191793	50.0	4560010.0	0.35959	Y
5	IC 680-769242/7	50.0	22.160342	50.0	4243838.0	0.443207	Y
6	IC 680-769242/6	80.0	32.434502	50.0	4480966.0	0.405431	Y
7	IC 680-769242/5	100.0	42.721891	50.0	5210584.0	0.427219	Y



Calibration

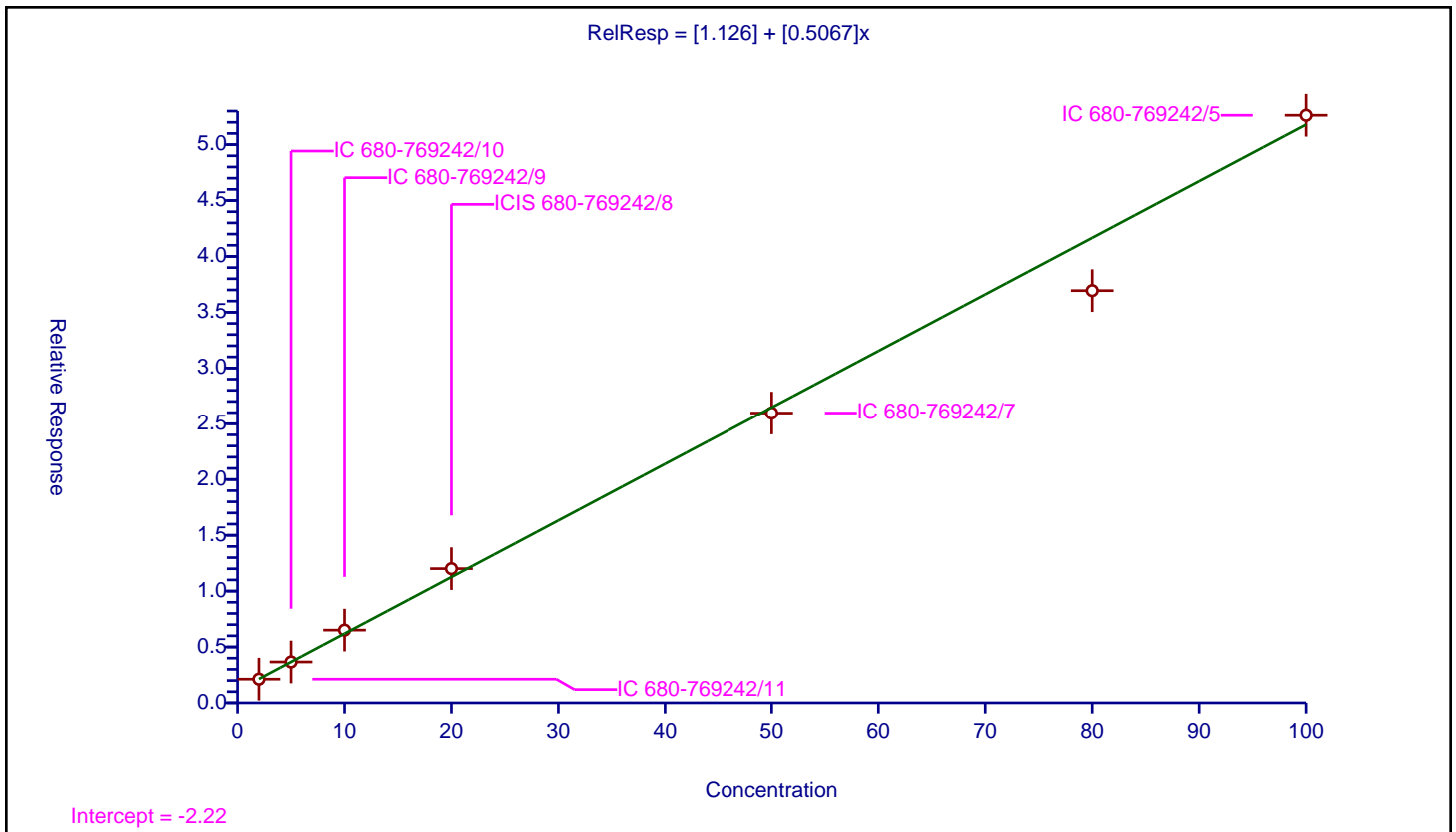
/ 2-(2-Butoxyethoxy)ethanol

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

Curve Coefficients	
Intercept:	1.126
Slope:	0.5067

Error Coefficients	
Standard Error:	3090000
Relative Standard Error:	6.9
Correlation Coefficient:	0.963
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-769242/11	2.0	2.122245	50.0	4950960.0	1.061122	Y
2	IC 680-769242/10	5.0	3.659293	50.0	5303320.0	0.731859	Y
3	IC 680-769242/9	10.0	6.5093	50.0	4553723.0	0.65093	Y
4	ICIS 680-769242/8	20.0	12.010489	50.0	4560010.0	0.600524	Y
5	IC 680-769242/7	50.0	25.958484	50.0	4243838.0	0.51917	Y
6	IC 680-769242/6	80.0	36.937571	50.0	4480966.0	0.46172	Y
7	IC 680-769242/5	100.0	52.625521	50.0	5210584.0	0.526255	Y



Calibration

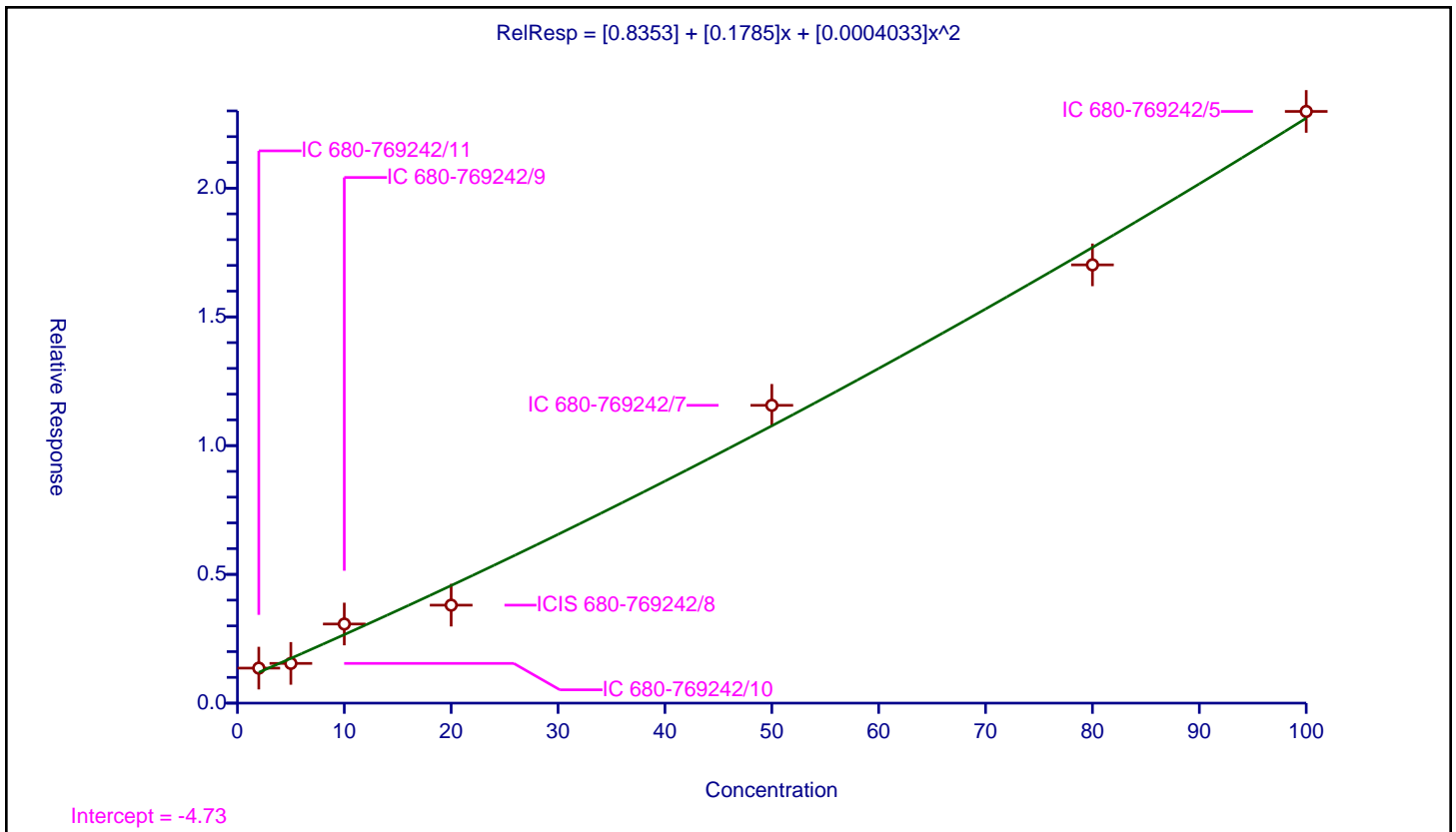
/ 2,2'-Oxybisethanol

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

Curve Coefficients	
Intercept:	0.8353
Slope:	0.1785
Second Order:	0.0004033

Error Coefficients	
Standard Error:	1520000
Relative Standard Error:	29.6
Correlation Coefficient:	0.981
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-769242/11	2.0	1.359241	50.0	4950960.0	0.679621	Y
2	IC 680-769242/10	5.0	1.542449	50.0	5303320.0	0.30849	Y
3	IC 680-769242/9	10.0	3.07231	50.0	4553723.0	0.307231	Y
4	ICIS 680-769242/8	20.0	3.804487	50.0	4560010.0	0.190224	Y
5	IC 680-769242/7	50.0	11.56531	50.0	4243838.0	0.231306	Y
6	IC 680-769242/6	80.0	17.020515	50.0	4480966.0	0.212756	Y
7	IC 680-769242/5	100.0	22.979113	50.0	5210584.0	0.229791	Y



Calibration

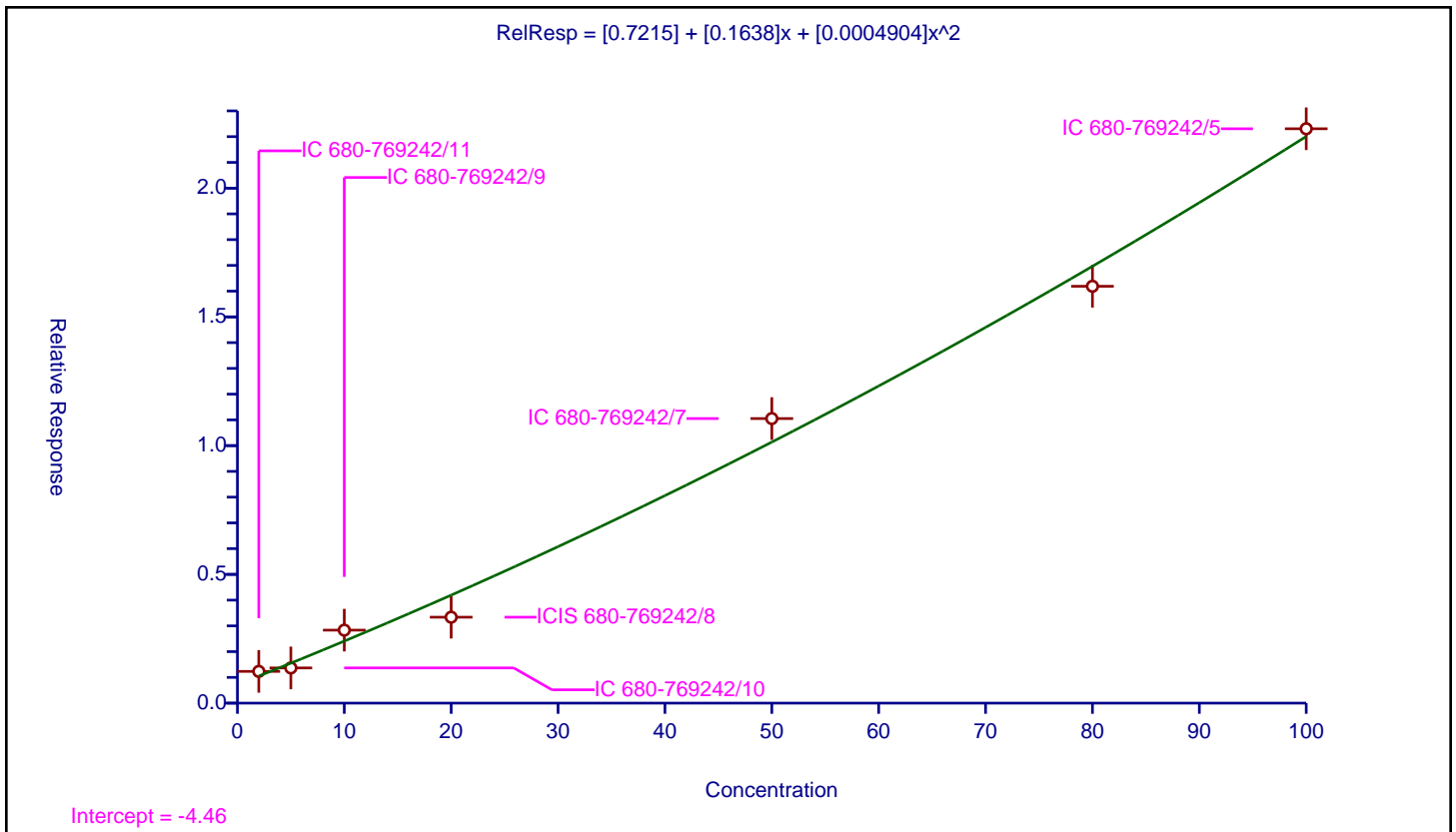
/ Triethylene Glycol

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

Curve Coefficients	
Intercept:	0.7215
Slope:	0.1638
Second Order:	0.0004904

Error Coefficients	
Standard Error:	1460000
Relative Standard Error:	34.3
Correlation Coefficient:	0.980
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-769242/11	2.0	1.232135	50.0	4950960.0	0.616067	Y
2	IC 680-769242/10	5.0	1.366936	50.0	5303320.0	0.273387	Y
3	IC 680-769242/9	10.0	2.834867	50.0	4553723.0	0.283487	Y
4	ICIS 680-769242/8	20.0	3.337076	50.0	4560010.0	0.166854	Y
5	IC 680-769242/7	50.0	11.051518	50.0	4243838.0	0.221103	Y
6	IC 680-769242/6	80.0	16.18873	50.0	4480966.0	0.202359	Y
7	IC 680-769242/5	100.0	22.306166	50.0	5210584.0	0.223062	Y



Calibration

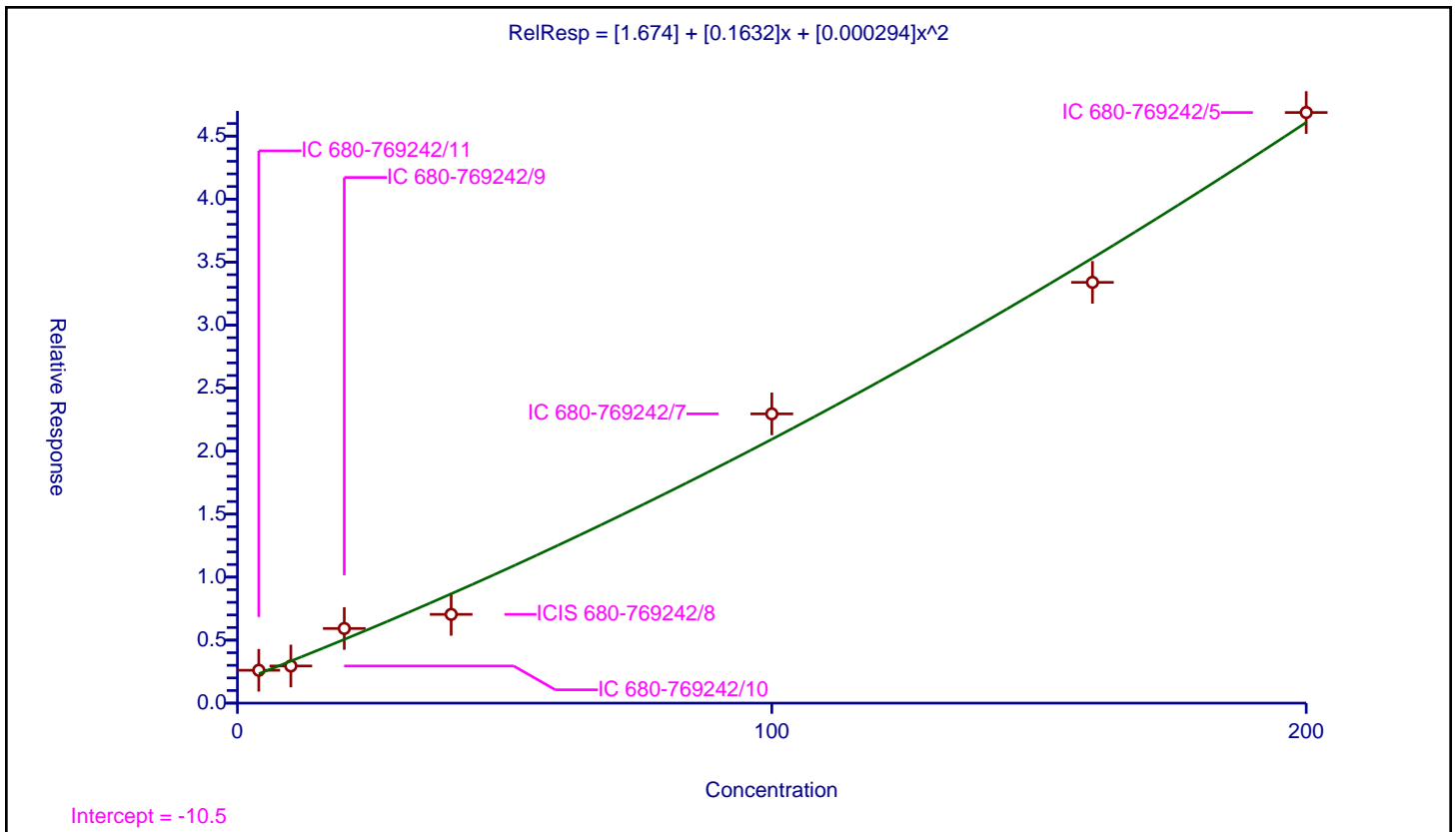
/ Tetraethylene Glycol

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

Curve Coefficients	
Intercept:	1.674
Slope:	0.1632
Second Order:	0.000294

Error Coefficients	
Standard Error:	3060000
Relative Standard Error:	29.4
Correlation Coefficient:	0.979
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-769242/11	4.0	2.607979	50.0	4950960.0	0.651995	Y
2	IC 680-769242/10	10.0	2.947173	50.0	5303320.0	0.294717	Y
3	IC 680-769242/9	20.0	5.923812	50.0	4553723.0	0.296191	Y
4	ICIS 680-769242/8	40.0	7.04471	50.0	4560010.0	0.176118	Y
5	IC 680-769242/7	100.0	22.95619	50.0	4243838.0	0.229562	Y
6	IC 680-769242/6	160.0	33.393235	50.0	4480966.0	0.208708	Y
7	IC 680-769242/5	200.0	46.870811	50.0	5210584.0	0.234354	Y



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-125072-1
 SDG No.: _____
 Lab Sample ID: ICV 680-769242/12 Calibration Date: 03/23/2023 14:54
 Instrument ID: CVGG2 Calib Start Date: 03/23/2023 12:11
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 03/23/2023 14:31
 Lab File ID: GC23012.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Lin2		0.7459		22.8	20.0	14.1	20.0
4-Hydroxy-4-methyl-2-pentano ne	Lin2		0.7278		22.4	20.0	11.9	20.0
2-Butoxyethanol	Lin2		0.8431		23.8	20.0	19.0	20.0
Dipropylene Glycol Methyl Ether	Lin2		0.0500		19.4	20.0	-2.8	20.0
Propylene glycol	Lin1		0.0944		17.3	20.0	-13.7	20.0
Ethylene glycol	Qua		0.4032		18.1	20.0	-9.4	20.0
2-(2-Butoxyethoxy)ethanol	Lin2		0.5724		20.4	20.0	1.8	20.0
2,2'-Oxybisethanol	Qua		0.1866		15.7	20.0	-21.7*	20.0
Triethylene Glycol	Qua		0.1900		17.8	20.0	-10.8	20.0
Tetraethylene Glycol	Qua		0.1936		35.0	40.0	-12.6	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-125072-1
 SDG No.: _____
 Lab Sample ID: ICV 680-769242/12 Calibration Date: 03/23/2023 14:54
 Instrument ID: CVGG2 Calib Start Date: 03/23/2023 12:11
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 03/23/2023 14:31
 Lab File ID: GC23012.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	2.90	2.85	2.97
4-Hydroxy-4-methyl-2-pentanone	3.46	3.41	3.55
2-Butoxyethanol	3.74	3.67	3.82
Dipropylene Glycol Methyl Ether	5.12	5.03	5.23
Propylene glycol	6.34	6.22	6.47
Ethylene glycol	6.56	6.46	6.73
2-(2-Butoxyethoxy)ethanol	8.39	8.22	8.55
2,2'-Oxybisethanol	9.60	9.41	9.79
Triethylene Glycol	10.63	10.42	10.84
Tetraethylene Glycol	11.76	11.55	12.02

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23012.D
 Lims ID: icv gly
 Client ID:
 Sample Type: CCV
 Inject. Date: 23-Mar-2023 14:54:53 ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084624-012
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 24-Mar-2023 13:11:05 Calib Date: 23-Mar-2023 14:31:34
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1629

First Level Reviewer: SWK1 Date: 24-Mar-2023 13:00:21

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
2.903	2.911	-0.008	1430063	20.0	22.8	
2 4-Hydroxy-4-methyl-2-pentanone						
3.460	3.476	-0.016	1395231	20.0	22.4	
3 2-Butoxyethanol						
3.744	3.746	-0.002	1616427	20.0	23.8	
* 4 n-Heptyl Alcohol						
4.188	4.179	0.009	4792859	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.124	5.128	-0.004	95881	20.0	19.4	
6 Propylene glycol						
6.336	6.346	-0.010	180904	20.0	17.3	
7 Ethylene glycol						
6.555	6.593	-0.038	772982	20.0	18.1	
8 2-(2-Butoxyethoxy)ethanol						
8.390	8.385	0.005	1097295	20.0	20.4	
9 2,2'-Oxybisethanol						
9.597	9.598	-0.001	357644	20.0	15.7	
10 Triethylene Glycol						
10.625	10.631	-0.006	364290	20.0	17.8	
11 Tetraethylene Glycol						
11.756	11.784	-0.028	742162	40.0	35.0	

Reagents:

SG_GlyICV_00055

Amount Added: 10.00

Units: uL

SG_GLY_ISTD_00106

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23012.D

Injection Date: 23-Mar-2023 14:54:53

Instrument ID: CVGG2

Operator ID:

Lims ID: icv gly

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

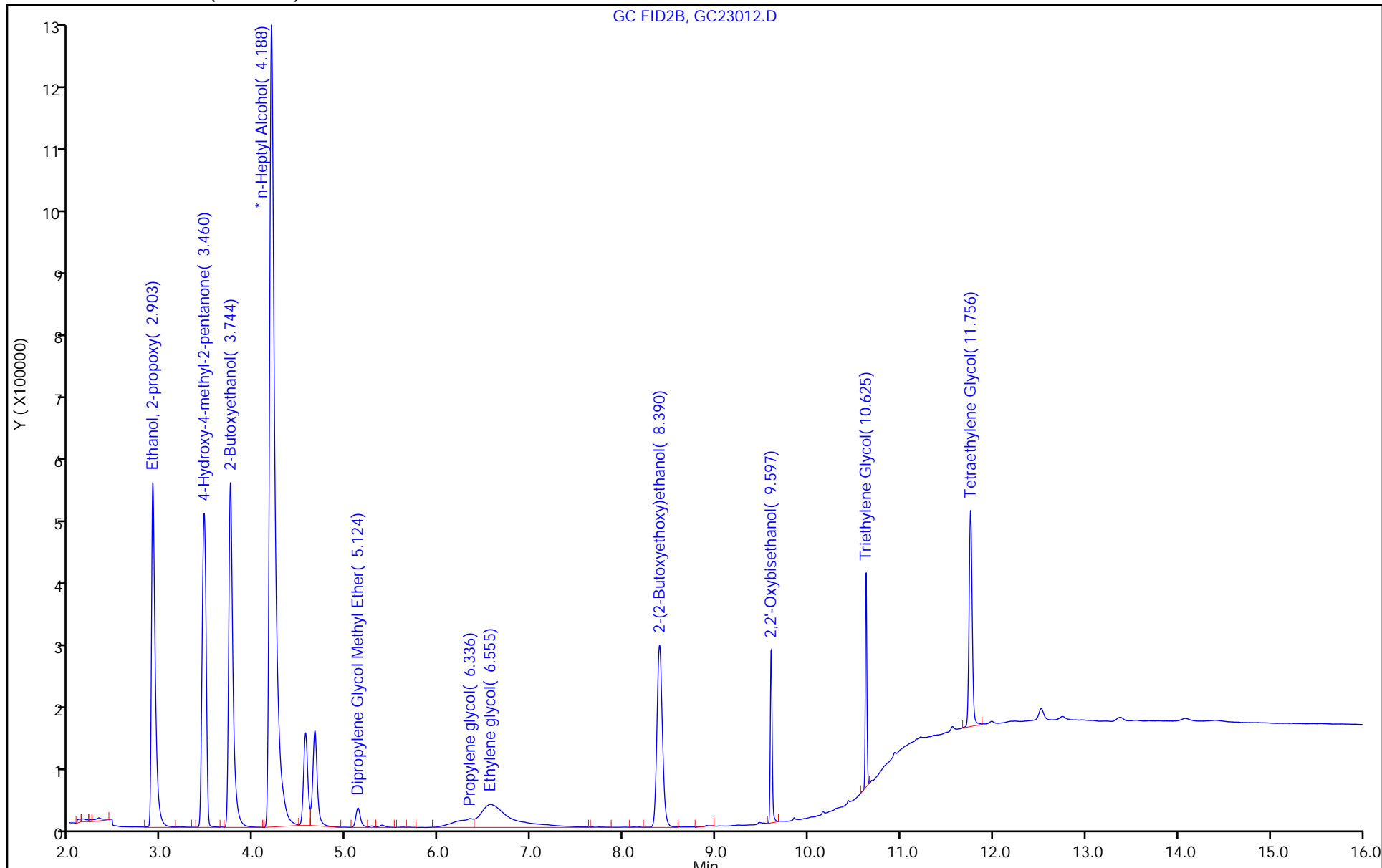
Dil. Factor: 1.0000

ALS Bottle#: 0

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.: 580-125072-1
 SDG No.: _____
 Lab Sample ID: CCVIS 680-769675/5 Calibration Date: 03/26/2023 12:39
 Instrument ID: CVGG2 Calib Start Date: 03/23/2023 12:11
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 03/23/2023 14:31
 Lab File ID: GC26005.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Lin2		0.5424		16.1	20.0	-19.4	20.0
4-Hydroxy-4-methyl-2-pentano ne	Lin2		0.5244		15.7	20.0	-21.6*	20.0
2-Butoxyethanol	Lin2		0.6174		16.9	20.0	-15.4	20.0
Dipropylene Glycol Methyl Ether	Lin2		0.0418		16.0	20.0	-20.2*	20.0
Propylene glycol	Lin1		0.0761		13.0	20.0	-34.9*	20.0
Ethylene glycol	Qua		0.4310		19.6	20.0	-2.2	20.0
2-(2-Butoxyethoxy)ethanol	Lin2		0.4999		17.5	20.0	-12.5	20.0
2,2'-Oxybisethanol	Qua		0.2885		26.1	20.0	30.5*	20.0
Triethylene Glycol	Qua		0.2827		27.8	20.0	39.0*	20.0
Tetraethylene Glycol	Qua		0.2970		56.7	40.0	41.8*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-125072-1
 SDG No.: _____
 Lab Sample ID: CCVIS 680-769675/5 Calibration Date: 03/26/2023 12:39
 Instrument ID: CVGG2 Calib Start Date: 03/23/2023 12:11
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 03/23/2023 14:31
 Lab File ID: GC26005.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	2.90	2.84	2.96
4-Hydroxy-4-methyl-2-pentanone	3.44	3.37	3.51
2-Butoxyethanol	3.74	3.67	3.82
Dipropylene Glycol Methyl Ether	5.11	5.01	5.21
Propylene glycol	6.33	6.21	6.46
Ethylene glycol	6.59	6.46	6.72
2-(2-Butoxyethoxy)ethanol	8.39	8.22	8.55
2,2'-Oxybisethanol	9.60	9.40	9.79
Triethylene Glycol	10.62	10.41	10.84
Tetraethylene Glycol	11.76	11.52	11.99

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26005.D
 Lims ID: ccvis g4
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 26-Mar-2023 12:39:26 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084685-005
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 27-Mar-2023 11:57:35 Calib Date: 23-Mar-2023 14:31:34
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1671

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy	2.899	2.899	0.000	1004451	20.0	16.1
2 4-Hydroxy-4-methyl-2-pentanone	3.443	3.443	0.000	971149	20.0	15.7
3 2-Butoxyethanol	3.744	3.744	0.000	1143466	20.0	16.9
* 4 n-Heptyl Alcohol	4.200	4.200	0.000	4630053	50.0	50.0
5 Dipropylene Glycol Methyl Ether	5.112	5.112	0.000	77445	20.0	16.0
6 Propylene glycol	6.333	6.333	0.000	140949	20.0	13.0
7 Ethylene glycol	6.588	6.588	0.000	798172	20.0	19.6
8 2-(2-Butoxyethoxy)ethanol	8.386	8.386	0.000	925755	20.0	17.5
9 2,2'-Oxybisethanol	9.595	9.595	0.000	534393	20.0	26.1
10 Triethylene Glycol	10.624	10.624	0.000	523607	20.0	27.8
11 Tetraethylene Glycol	11.755	11.755	0.000	1100154	40.0	56.7

Reagents:

SG_Gly_CAL_00048 Amount Added: 10.00 Units: uL
 SG_GLY_ISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26005.D

Injection Date: 26-Mar-2023 12:39:26

Instrument ID: CVGG2

Operator ID:

Lims ID: ccvis g4

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

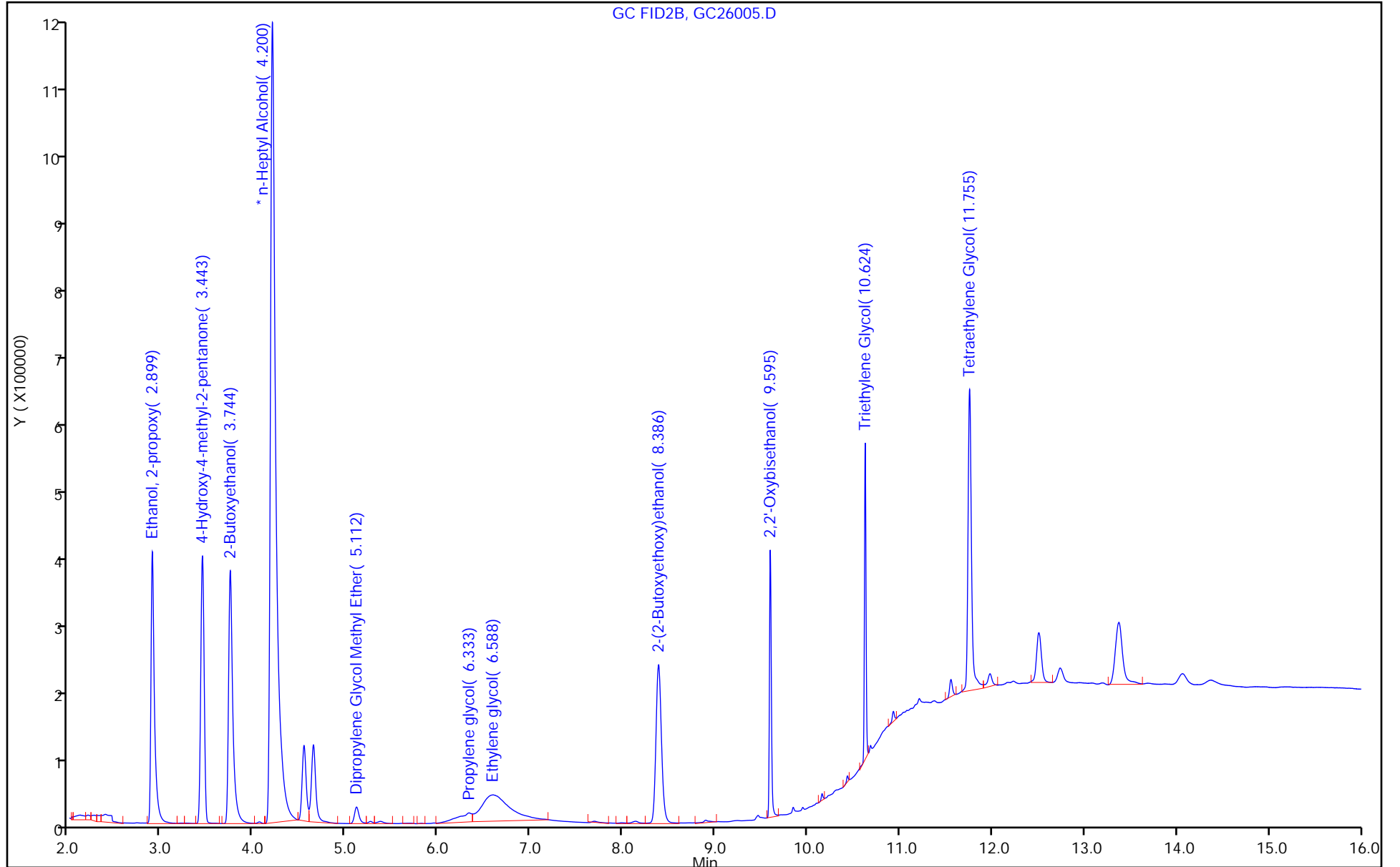
Dil. Factor: 1.0000

ALS Bottle#: 0

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.: 580-125072-1
 SDG No.: _____
 Lab Sample ID: CCV 680-769675/26 Calibration Date: 03/26/2023 20:51
 Instrument ID: CVGG2 Calib Start Date: 03/23/2023 12:11
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 03/23/2023 14:31
 Lab File ID: GC26026.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Lin2		0.7877		24.2	20.0	20.9*	20.0
4-Hydroxy-4-methyl-2-pentano ne	Lin2		0.7820		24.2	20.0	20.9*	20.0
2-Butoxyethanol	Lin2		0.8942		25.4	20.0	26.8*	20.0
Dipropylene Glycol Methyl Ether	Lin2		0.0621		24.5	20.0	22.7*	20.0
Propylene glycol	Lin1		0.1021		19.1	20.0	-4.7	20.0
Ethylene glycol	Qua		0.4428		20.2	20.0	0.8	20.0
2-(2-Butoxyethoxy)ethanol	Lin2		0.6768		24.5	20.0	22.5*	20.0
2,2'-Oxybisethanol	Qua		0.1332		10.0	20.0	-49.9*	20.0
Triethylene Glycol	Qua		0.0635		3.31	20.0	-83.5*	20.0
Tetraethylene Glycol	Qua				10.0	40.0	-100.0*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-125072-1
 SDG No.: _____
 Lab Sample ID: CCV 680-769675/26 Calibration Date: 03/26/2023 20:51
 Instrument ID: CVGG2 Calib Start Date: 03/23/2023 12:11
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 03/23/2023 14:31
 Lab File ID: GC26026.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	2.90	2.84	2.96
4-Hydroxy-4-methyl-2-pentanone	3.45	3.38	3.52
2-Butoxyethanol	3.74	3.66	3.81
Dipropylene Glycol Methyl Ether	5.12	5.02	5.22
Propylene glycol	6.33	6.20	6.46
Ethylene glycol	6.56	6.43	6.69
2-(2-Butoxyethoxy)ethanol	8.38	8.22	8.55
2,2'-Oxybisethanol	9.60	9.41	9.79
Triethylene Glycol	10.68	10.46	10.89
Tetraethylene Glycol			

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26026.D
 Lims ID: ccv g4
 Client ID:
 Sample Type: CCV
 Inject. Date: 26-Mar-2023 20:51:28 ALS Bottle#: 0 Worklist Smp#: 26
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084685-026
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 27-Mar-2023 11:57:37 Calib Date: 23-Mar-2023 14:31:34
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1671

First Level Reviewer: SWK1

Date: 27-Mar-2023 11:57:16

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy	2.901	2.901	0.000	1693987	20.0	24.2
2 4-Hydroxy-4-methyl-2-pentanone	3.453	3.453	0.000	1681744	20.0	24.2
3 2-Butoxyethanol	3.738	3.738	0.000	1923190	20.0	25.4
* 4 n-Heptyl Alcohol	4.178	4.178	0.000	5376576	50.0	50.0
5 Dipropylene Glycol Methyl Ether	5.121	5.121	0.000	133447	20.0	24.5
6 Propylene glycol	6.330	6.330	0.000	219585	20.0	19.1
7 Ethylene glycol	6.560	6.560	0.000	952375	20.0	20.2
8 2-(2-Butoxyethoxy)ethanol	8.382	8.382	0.000	1455500	20.0	24.5
9 2,2'-Oxybisethanol	9.602	9.602	0.000	286531	20.0	10.0
10 Triethylene Glycol	10.676	10.676	0.000	136459	20.0	3.31

QC Flag Legend

Processing Flags

Reagents:

SG_Gly_CAL_00048

Amount Added: 10.00

Units: uL

SG_GLY_ISTD_00106

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26026.D

Injection Date: 26-Mar-2023 20:51:28

Instrument ID: CVGG2

Operator ID:

Lims ID: ccv g4

Worklist Smp#: 26

Client ID:

Injection Vol: 1.0 ul

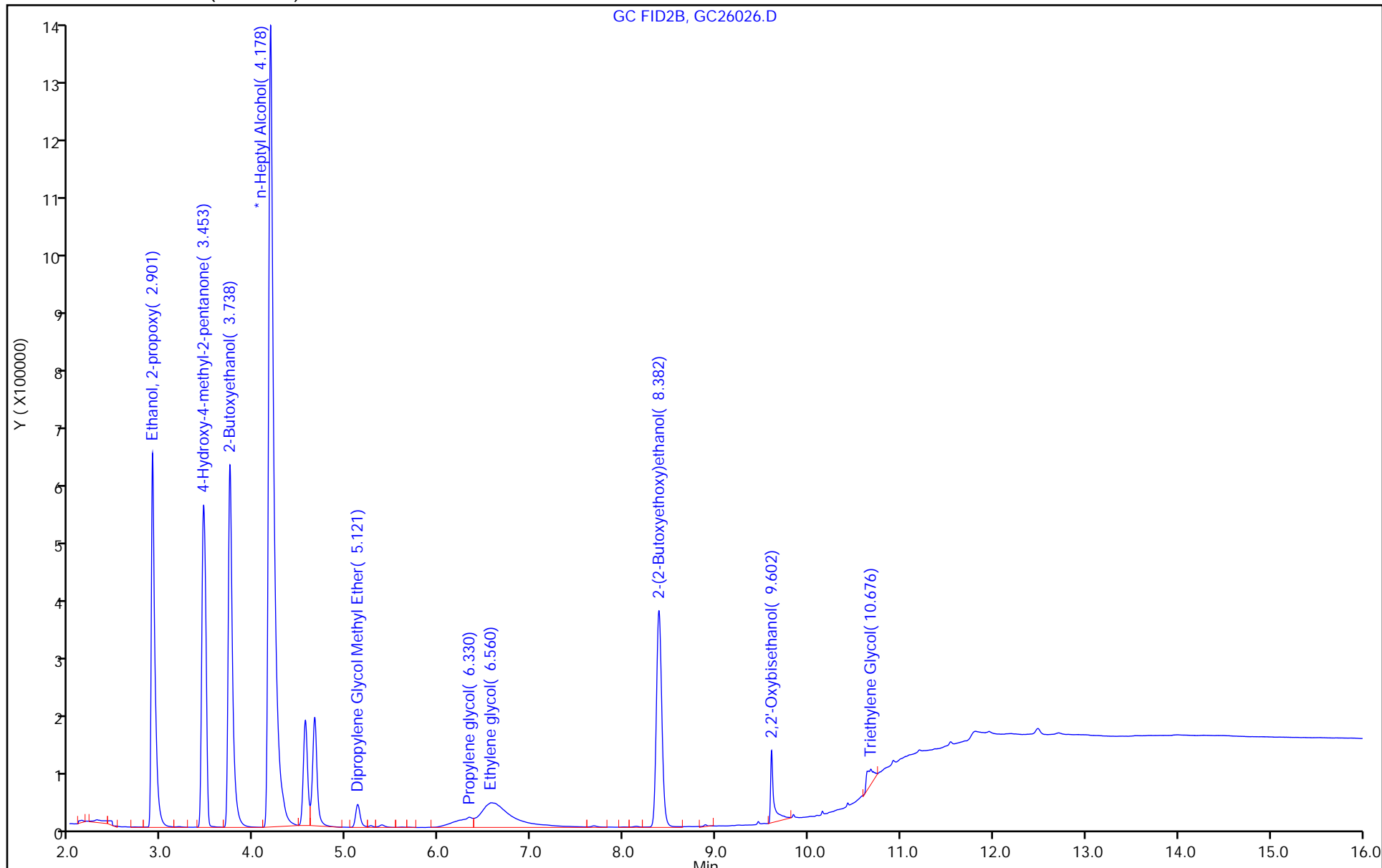
Dil. Factor: 1.0000

ALS Bottle#: 0

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.: 580-125072-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 680-769675/10
 Matrix: Water Lab File ID: GC26010.D
 Analysis Method: 8015C GLY Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 03/26/2023 14:36
 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.: 769675 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26010.D
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 26-Mar-2023 14:36:41 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084685-010
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 27-Mar-2023 11:57:16 Calib Date: 23-Mar-2023 14:31:34
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1671

First Level Reviewer: SWK1 Date: 27-Mar-2023 11:55:27

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
--------------	------------------	------------------	----------	------------------	--------------------	-------

* 4 n-Heptyl Alcohol
 4.193 4.178 0.015 4854591 50.0 50.0

Reagents:

SG_GLY_ISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26010.D

Injection Date: 26-Mar-2023 14:36:41

Instrument ID: CVGG2

Operator ID:

Lims ID: mb

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

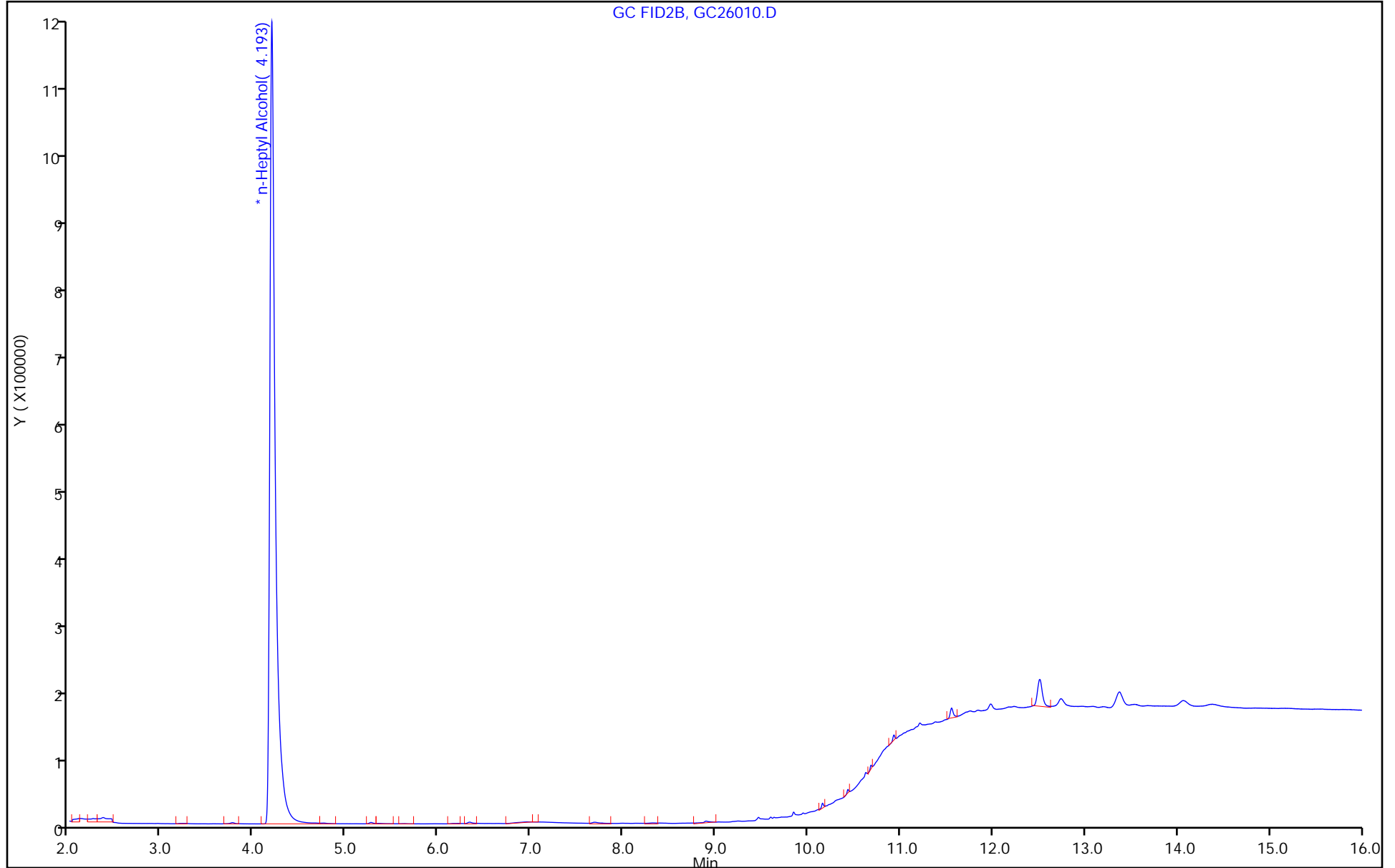
Dil. Factor: 1.0000

ALS Bottle#: 0

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.: 580-125072-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 680-769675/6
 Matrix: Water Lab File ID: GC26006.D
 Analysis Method: 8015C GLY Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 03/26/2023 13:02
 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.: 769675 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	19.8		5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26006.D
 Lims ID: lcs
 Client ID:
 Sample Type: LCS
 Inject. Date: 26-Mar-2023 13:02:49 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084685-006
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 27-Mar-2023 11:57:35 Calib Date: 23-Mar-2023 14:31:34
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1671

First Level Reviewer: SWK1 Date: 27-Mar-2023 11:55:16

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
2.898	2.899	-0.001	1232715	20.0	17.2	
2 4-Hydroxy-4-methyl-2-pentanone						
3.441	3.443	-0.002	1217392	20.0	17.2	
3 2-Butoxyethanol						
3.743	3.744	-0.001	1392089	20.0	17.9	
* 4 n-Heptyl Alcohol						
4.200	4.200	0.000	5346556	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.112	5.112	0.000	104985	20.0	19.0	
6 Propylene glycol						
6.333	6.333	0.000	211385	20.0	18.3	
7 Ethylene glycol						
6.587	6.588	-0.001	1272535	20.0	27.9	M
8 2-(2-Butoxyethoxy)ethanol						
8.385	8.386	-0.001	1192339	20.0	19.8	
9 2,2'-Oxybisethanol						
9.595	9.595	0.000	688892	20.0	29.5	
10 Triethylene Glycol						
10.624	10.624	0.000	685075	20.0	31.7	
11 Tetraethylene Glycol						
11.753	11.755	-0.002	1432298	40.0	64.3	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_GlyICV_00055

Amount Added: 10.00

Units: uL

SG_GLY_ISTD_00106

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26006.D

Injection Date: 26-Mar-2023 13:02:49

Instrument ID: CVGG2

Operator ID:

Lims ID: lcs

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

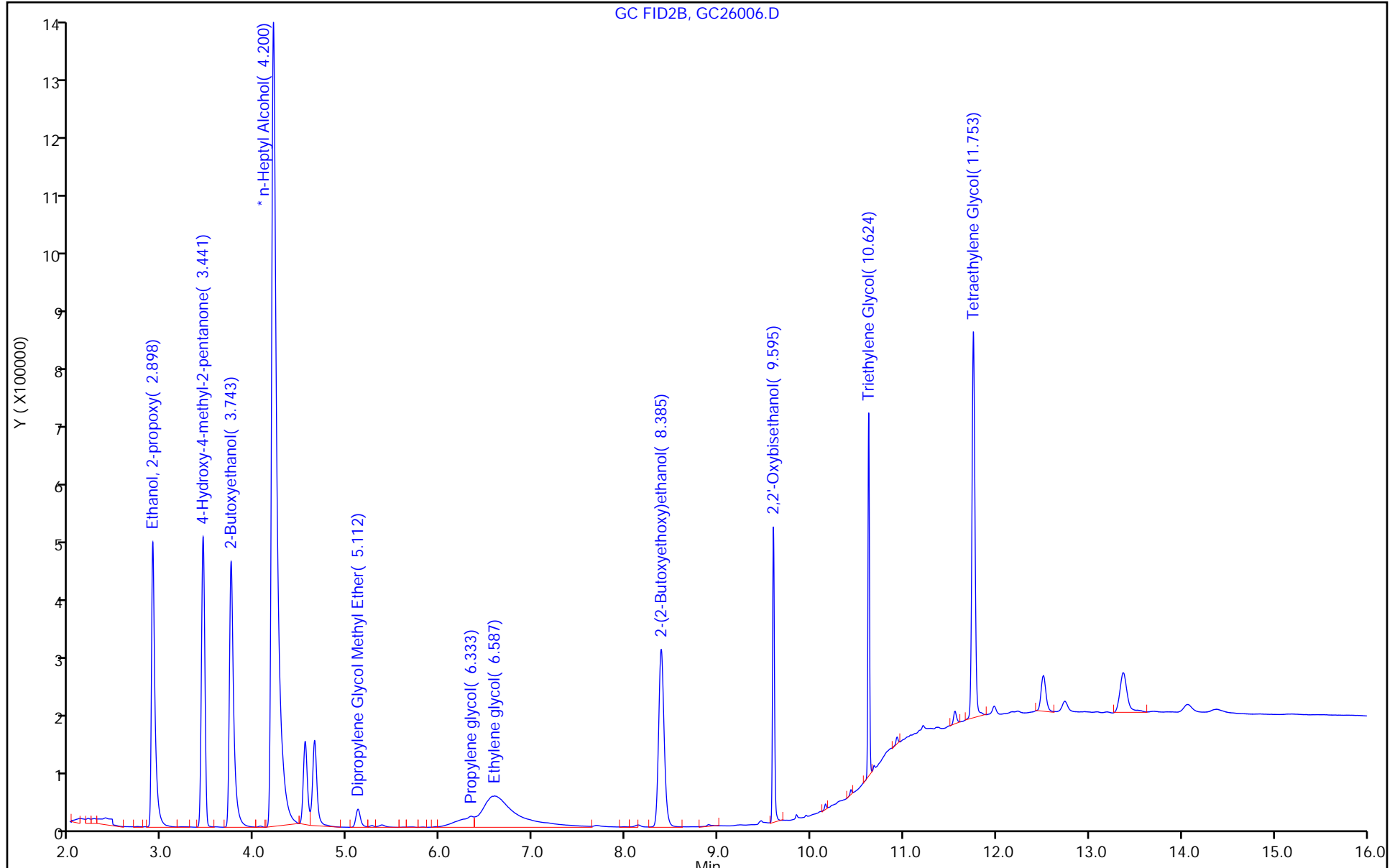
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



GC FID2B, GC26006.D

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-125072-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 680-769675/7
 Matrix: Water Lab File ID: GC26007.D
 Analysis Method: 8015C GLY Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 03/26/2023 13:26
 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.: 769675 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	19.5		5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26007.D
 Lims ID: lcsd
 Client ID:
 Sample Type: LCSD
 Inject. Date: 26-Mar-2023 13:26:20 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084685-007
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 27-Mar-2023 11:57:35 Calib Date: 23-Mar-2023 14:31:34
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1671

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy	2.896	2.899	-0.003	1187278	20.0	16.8
2 4-Hydroxy-4-methyl-2-pentanone	3.439	3.443	-0.004	1172704	20.0	16.7
3 2-Butoxyethanol	3.741	3.744	-0.003	1343459	20.0	17.5
* 4 n-Heptyl Alcohol	4.198	4.200	-0.002	5273924	50.0	50.0
5 Dipropylene Glycol Methyl Ether	5.112	5.112	0.000	99757	20.0	18.3
6 Propylene glycol	6.329	6.333	-0.004	204161	20.0	17.8
7 Ethylene glycol	6.581	6.588	-0.007	1283920	20.0	28.6
8 2-(2-Butoxyethoxy)ethanol	8.383	8.386	-0.003	1158515	20.0	19.5
9 2,2'-Oxybisethanol	9.595	9.595	0.000	689967	20.0	29.9
10 Triethylene Glycol	10.622	10.624	-0.002	680280	20.0	31.9
11 Tetraethylene Glycol	11.752	11.755	-0.003	1420356	40.0	64.7

Reagents:

SG_GlylCV_00055 Amount Added: 10.00 Units: uL
 SG_GLY_ISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26007.D

Injection Date: 26-Mar-2023 13:26:20

Instrument ID: CVGG2

Operator ID:

Lims ID: lcsd

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

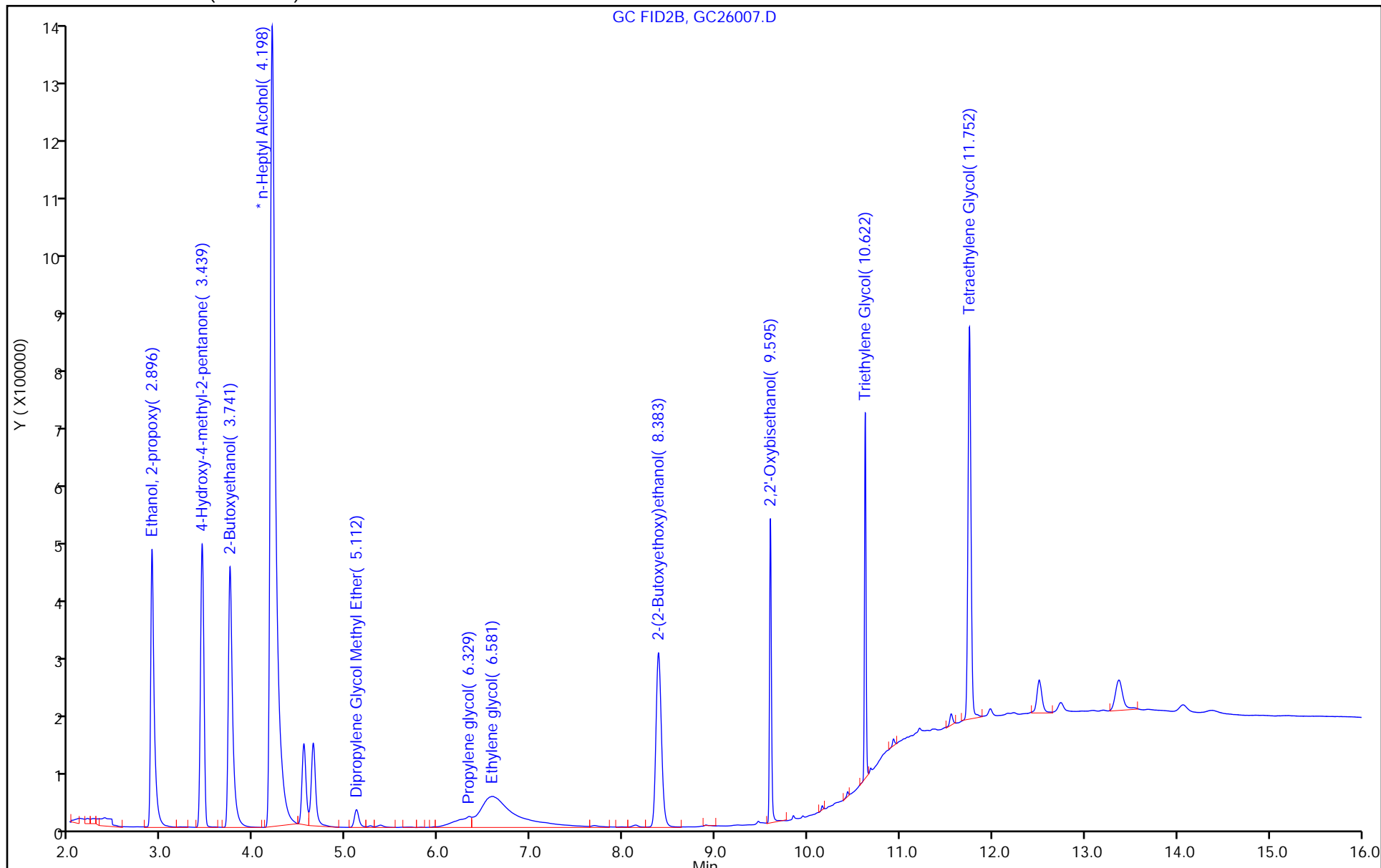
Dil. Factor: 1.0000

ALS Bottle#: 0

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.: 580-125072-1
SDG No.: _____
Client Sample ID: AF-RHMW06-WGN01LF-2303W3 Lab Sample ID: 580-125072-2 MS
MS
Matrix: Water Lab File ID: GC26019.D
Analysis Method: 8015C GLY Date Collected: 03/20/2023 12:10
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 1(mL) Date Analyzed: 03/26/2023 18:07
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.: 769675 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	21.3		5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26019.D
 Lims ID: 580-125072-C-2 MS
 Client ID:
 Sample Type: MS
 Inject. Date: 26-Mar-2023 18:07:35 ALS Bottle#: 0 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084685-019
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 27-Mar-2023 11:57:16 Calib Date: 23-Mar-2023 14:31:34
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1671

First Level Reviewer: SWK1

Date: 27-Mar-2023 11:56:27

RT (min.)	Exp RT (min.)	Diff RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
2.900	2.901	-0.001	1583967	20.0	22.1	
2 4-Hydroxy-4-methyl-2-pentanone						
3.452	3.453	-0.001	1535310	20.0	21.5	
3 2-Butoxyethanol						
3.739	3.738	0.001	1801367	20.0	23.2	
* 4 n-Heptyl Alcohol						
4.182	4.178	0.004	5473823	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.120	5.121	-0.001	115566	20.0	20.6	
6 Propylene glycol						M
6.270	6.330	-0.060	230255	20.0	19.8	M
7 Ethylene glycol						
6.550	6.560	-0.010	822857	20.0	16.7	
8 2-(2-Butoxyethoxy)ethanol						
8.382	8.382	0.000	1306071	20.0	21.3	
9 2,2'-Oxybisethanol						
9.601	9.602	-0.001	247304	20.0	7.84	
10 Triethylene Glycol						
10.652	10.676	-0.024	162932	20.0	4.62	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00048

Amount Added: 10.00

Units: uL

SG_GLY_ISTD_00106

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26019.D

Injection Date: 26-Mar-2023 18:07:35

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-125072-C-2 MS

Worklist Smp#: 19

Client ID:

Injection Vol: 1.0 ul

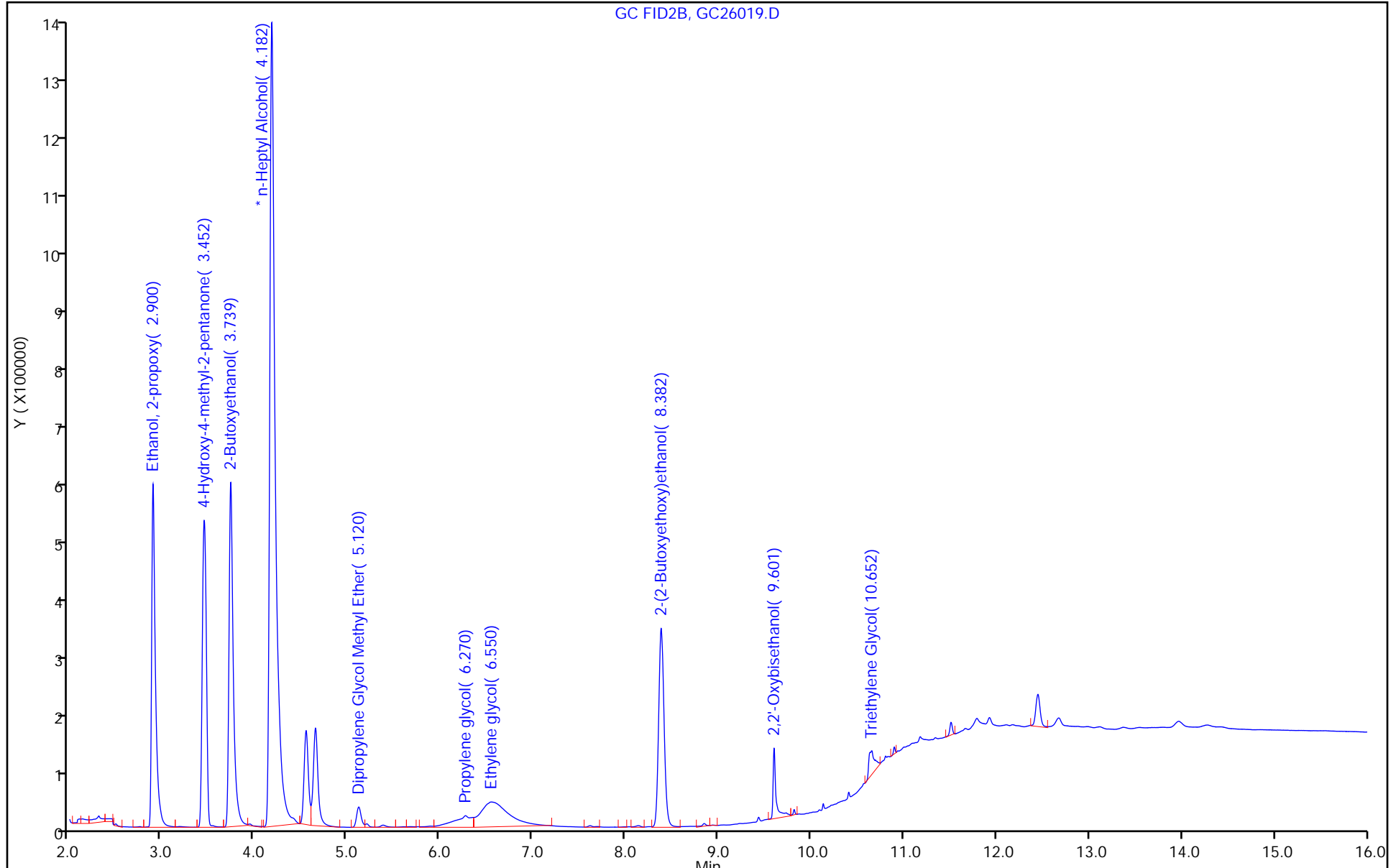
Dil. Factor: 1.0000

ALS Bottle#: 0

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: <u>Eurofins Savannah</u>	Job No.: <u>580-125072-1</u>
SDG No.: _____	
Client Sample ID: <u>AF-RHMW06-WGN01LF-2303W3 MSD</u>	Lab Sample ID: <u>580-125072-2 MSD</u>
Matrix: <u>Water</u>	Lab File ID: <u>GC26020.D</u>
Analysis Method: <u>8015C GLY</u>	Date Collected: <u>03/20/2023 12:10</u>
Extraction Method: _____	Date Extracted: _____
Sample wt/vol: <u>1(mL)</u>	Date Analyzed: <u>03/26/2023 18:31</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>J&W DB WAX</u> ID: <u>0.45(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	
Analysis Batch No.: <u>769675</u>	Units: <u>mg/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	20.4		5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26020.D
 Lims ID: 580-125072-C-2 MSD
 Client ID:
 Sample Type: MSD
 Inject. Date: 26-Mar-2023 18:31:00 ALS Bottle#: 0 Worklist Smp#: 20
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084685-020
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 27-Mar-2023 11:57:16 Calib Date: 23-Mar-2023 14:31:34
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230323-84624.b\GC23011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1671

First Level Reviewer: SWK1 Date: 27-Mar-2023 11:56:40

RT (min.)	Exp RT (min.)	Diff RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
2.898	2.901	-0.003	1685306	20.0	22.0	
2 4-Hydroxy-4-methyl-2-pentanone						
3.451	3.453	-0.002	1618228	20.0	21.2	
3 2-Butoxyethanol						
3.737	3.738	-0.001	1930278	20.0	23.3	
* 4 n-Heptyl Alcohol						
4.181	4.178	0.003	5843381	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.119	5.121	-0.002	119913	20.0	20.0	
6 Propylene glycol						
6.273	6.330	-0.057	227355	20.0	17.9	M
7 Ethylene glycol						
6.566	6.560	0.006	865612	20.0	16.4	
8 2-(2-Butoxyethoxy)ethanol						
8.384	8.382	0.002	1341677	20.0	20.4	
9 2,2'-Oxybisethanol						
9.601	9.602	-0.001	261605	20.0	7.73	
10 Triethylene Glycol						
10.655	10.676	-0.021	177715	20.0	4.81	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00048

Amount Added: 10.00

Units: uL

SG_GLY_ISTD_00106

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230326-84685.b\GC26020.D

Injection Date: 26-Mar-2023 18:31:00

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-125072-C-2 MSD

Worklist Smp#: 20

Client ID:

Injection Vol: 1.0 ul

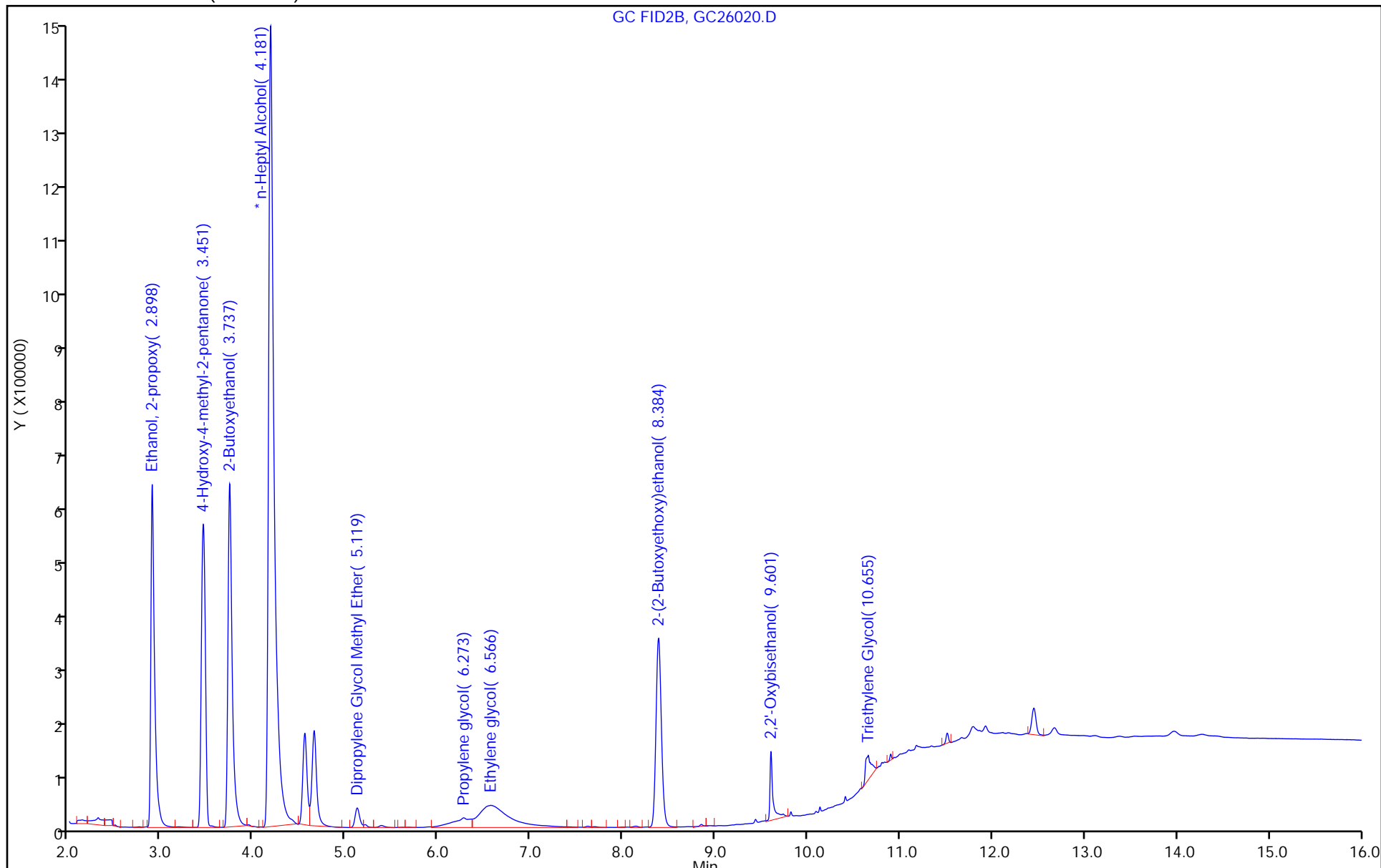
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Savannah Job No.: 580-125072-1

SDG No.: _____

Instrument ID: CVGG2 Start Date: 03/23/2023 12:11

Analysis Batch Number: 769242 End Date: 03/24/2023 02:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 680-769242/5		03/23/2023 12:11	1	GC23005.D	J&W DB WAX 0.45 (mm)
IC 680-769242/6		03/23/2023 12:34	1	GC23006.D	J&W DB WAX 0.45 (mm)
IC 680-769242/7		03/23/2023 12:58	1	GC23007.D	J&W DB WAX 0.45 (mm)
ICIS 680-769242/8		03/23/2023 13:21	1	GC23008.D	J&W DB WAX 0.45 (mm)
IC 680-769242/9		03/23/2023 13:44	1	GC23009.D	J&W DB WAX 0.45 (mm)
IC 680-769242/10		03/23/2023 14:08	1	GC23010.D	J&W DB WAX 0.45 (mm)
IC 680-769242/11		03/23/2023 14:31	1	GC23011.D	J&W DB WAX 0.45 (mm)
ICV 680-769242/12 CCV		03/23/2023 14:54	1	GC23012.D	J&W DB WAX 0.45 (mm)
ZZZZZ		03/23/2023 15:18	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/23/2023 15:41	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/23/2023 16:05	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/23/2023 16:28	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/23/2023 17:38	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/23/2023 18:02	5		J&W DB WAX 0.45 (mm)
ZZZZZ		03/23/2023 18:25	5		J&W DB WAX 0.45 (mm)
ZZZZZ		03/23/2023 18:48	5		J&W DB WAX 0.45 (mm)
ZZZZZ		03/23/2023 19:12	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/23/2023 19:35	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/23/2023 19:59	5		J&W DB WAX 0.45 (mm)
ZZZZZ		03/23/2023 20:22	5		J&W DB WAX 0.45 (mm)
ZZZZZ		03/23/2023 20:45	5		J&W DB WAX 0.45 (mm)
ZZZZZ		03/23/2023 21:09	10		J&W DB WAX 0.45 (mm)
ZZZZZ		03/23/2023 21:32	5		J&W DB WAX 0.45 (mm)
ZZZZZ		03/23/2023 21:55	5		J&W DB WAX 0.45 (mm)
ZZZZZ		03/23/2023 22:19	5		J&W DB WAX 0.45 (mm)
ZZZZZ		03/23/2023 22:42	5		J&W DB WAX 0.45 (mm)
ZZZZZ		03/23/2023 23:06	5		J&W DB WAX 0.45 (mm)
ZZZZZ		03/23/2023 23:29	10		J&W DB WAX 0.45 (mm)
ZZZZZ		03/23/2023 23:52	5		J&W DB WAX 0.45 (mm)
ZZZZZ		03/24/2023 00:16	5		J&W DB WAX 0.45 (mm)
ZZZZZ		03/24/2023 00:38	5		J&W DB WAX 0.45 (mm)
ZZZZZ		03/24/2023 01:01	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/24/2023 01:25	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/24/2023 01:48	1		J&W DB WAX 0.45 (mm)
CCV 680-769242/42		03/24/2023 02:35	1		J&W DB WAX 0.45 (mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Savannah Job No.: 580-125072-1

SDG No.: _____

Instrument ID: CVGG2 Start Date: 03/26/2023 12:39

Analysis Batch Number: 769675 End Date: 03/26/2023 20:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 680-769675/5		03/26/2023 12:39	1	GC26005.D	J&W DB WAX 0.45 (mm)
LCS 680-769675/6		03/26/2023 13:02	1	GC26006.D	J&W DB WAX 0.45 (mm)
LCSD 680-769675/7		03/26/2023 13:26	1	GC26007.D	J&W DB WAX 0.45 (mm)
MB 680-769675/10		03/26/2023 14:36	1	GC26010.D	J&W DB WAX 0.45 (mm)
ZZZZZ		03/26/2023 15:00	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/26/2023 15:23	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/26/2023 15:46	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/26/2023 16:10	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/26/2023 16:33	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/26/2023 16:57	1		J&W DB WAX 0.45 (mm)
580-125072-1	AF-RHMW04-WGN01LF-230 3W3	03/26/2023 17:20	1	GC26017.D	J&W DB WAX 0.45 (mm)
580-125072-2	AF-RHMW06-WGN01LF-230 3W3	03/26/2023 17:44	1	GC26018.D	J&W DB WAX 0.45 (mm)
580-125072-2 MS	AF-RHMW06-WGN01LF-230 3W3 MS	03/26/2023 18:07	1	GC26019.D	J&W DB WAX 0.45 (mm)
580-125072-2 MSD	AF-RHMW06-WGN01LF-230 3W3 MSD	03/26/2023 18:31	1	GC26020.D	J&W DB WAX 0.45 (mm)
580-125072-3	AF-RHMW16-WGN01LF-230 3W3	03/26/2023 18:54	1	GC26021.D	J&W DB WAX 0.45 (mm)
580-125072-4	AF-RHMW12A-WGN01LF-23 03W3	03/26/2023 19:17	1	GC26022.D	J&W DB WAX 0.45 (mm)
580-125072-5	AF-RHMW12A-WGFD01LF-2 303W3	03/26/2023 19:41	1	GC26023.D	J&W DB WAX 0.45 (mm)
ZZZZZ		03/26/2023 20:04	1		J&W DB WAX 0.45 (mm)
CCV 680-769675/26		03/26/2023 20:51	1	GC26026.D	J&W DB WAX 0.45 (mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah Job No.: 580-125072-1

SDG No.: _____

Batch Number: 769242 Batch Start Date: 03/23/23 12:11 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 00048	SG_GLY_ISTD 00106	SG_GlyICV 00055		
IC 680-769242/5		8015C GLY		1 mL	50 uL	10 uL			
IC 680-769242/6		8015C GLY		1 mL	40 uL	10 uL			
IC 680-769242/7		8015C GLY		1 mL	25 uL	10 uL			
ICIS 680-769242/8		8015C GLY		1 mL	10 uL	10 uL			
IC 680-769242/9		8015C GLY		1 mL	5 uL	10 uL			
IC 680-769242/10		8015C GLY		1 mL	2.5 uL	10 uL			
IC 680-769242/11		8015C GLY		1 mL	1 uL	10 uL			
ICV 680-769242/12 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.: 580-125072-1

SDG No.: _____

Batch Number: 769675 Batch Start Date: 03/26/23 12:39 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 00048	SG_GLY_ISTD 00106	SG_GlyICV 00055		
CCVIS 680-769675/5		8015C GLY		1 mL	10 uL	10 uL			
LCS 680-769675/6		8015C GLY		1 mL		10 uL	10 uL		
LCSD 680-769675/7		8015C GLY		1 mL		10 uL	10 uL		
MB 680-769675/10		8015C GLY		1 mL		10 uL			
580-125072-C-1	AF-RHMW04-WGN01L F-2303W3	8015C GLY	T	1 mL		10 uL			
580-125072-C-2	AF-RHMW06-WGN01L F-2303W3	8015C GLY	T	1 mL		10 uL			
580-125072-C-2 MS	AF-RHMW06-WGN01L F-2303W3	8015C GLY	T	1 mL	10 uL	10 uL			
580-125072-C-2 MSD	AF-RHMW06-WGN01L F-2303W3	8015C GLY	T	1 mL	10 uL	10 uL			
580-125072-C-3	AF-RHMW16-WGN01L F-2303W3	8015C GLY	T	1 mL		10 uL			
580-125072-C-4	AF-RHMW12A-WGN01 LF-2303W3	8015C GLY	T	1 mL		10 uL			
580-125072-C-5	AF-RHMW12A-WGFD0 1LF-2303W3	8015C GLY	T	1 mL		10 uL			
CCV 680-769675/26		8015C GLY		1 mL	10 uL	10 uL			

Batch Notes	

Basis	Basis Description
T	Total/NA

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

Subcontract Data

Shipping and Receiving Documents

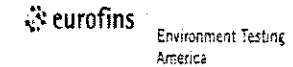
Chain of Custody Record

Client Information			Sampler: <u>M. G. T. M.</u>		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No: 2303W3AFEA09									
Client Contact			Phone: <u>224 503 9732</u>		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page: Page 1 of 1									
Company: AECOM			PWSID:		Analysis Requested						Job #:							
Address: 1001 Bishop St. Suite 1600 City: Honolulu State, Zip: Hawaii 96813 Phone: 808-954-4512 / 770-331-0794 Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)			Due Date Requested: see subcontract TAT Requested (days): Rush - ASAP Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: WO #:		Field Filtered Sample (Yes or No) Perform MS/MS (Yes or No) 8015C, DAI, GL, DSI 2 (2-butylselenoxy) ethanol <div style="font-size: 2em; font-weight: bold; transform: rotate(-15deg); position: absolute; top: 50%; left: 50%; opacity: 0.5;"> P. S. J. S. 3/20/23 </div>						Preservation Codes:							
Project Name: CTO N6274223F0104 Site: RHSF			Project #: 60697810 SSOW#:								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 (W=water, S=solid, O=soil, A=air)		Field Filtered Sample (Yes or No)		Perform MS/MS (Yes or No)		Total Number of Containers		Special Instructions/Note:	
AF-RHMW06-WGN01LF-2303W3			03 20 23		1210		G W		W		N N X		3					
			M. G. T. M. 03.20.23															
Possible Hazard Identification			<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)													
Deliverable Requested: I, II, III, IV, Other (specify)			Prefim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EquiS EDD		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months													
Empty Kit Relinquished by:			Date:		Time:		Method of Shipment:											
Relinquished by: <u>Marcell Gasco</u>			Date/Time: <u>03 20 23 1330</u>		Company: <u>AECOM</u>		Received by: <u>JAMES MASON</u>		Date/Time: <u>3/20/23 1330</u>		Company: <u>AECOM</u>							
Relinquished by: <u>James Mason</u>			Date/Time: <u>3/20/23 1345</u>		Company: <u>AECOM</u>		Received by: <u>[Signature]</u>		Date/Time: <u>3/22/23 1030</u>		Company:							
Relinquished by:			Date/Time:		Company:		Received by:		Date/Time:		Company:							
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No.:		Cooler Temperature: <u>4.5/4.5</u> °C and Other Remarks:													

Ver: 01/16/2019

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

Chain of Custody Record



Client Information		Sampler: <i>SABORO ALLEN</i>		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No: 2303W3AFE06																																		
Client Contact		Phone: <i>808 639 2434</i>		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page: Page 1 of 1																																		
Company: AECOM		PWSID:		Analysis Requested				Job #:																																		
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract		<table border="1"> <tr> <td rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">Field Filtered Sample (Yes or No)</td> <td rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">Prelim MS/MSD (Yes or No)</td> <td colspan="6" rowspan="5" style="text-align: center; vertical-align: middle;"> </td> <td rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Number of Containers</td> </tr> <tr> <td colspan="6">8015C, DAL, GL, D51 2-(2-butoxyethoxy)ethanol</td> </tr> <tr> <td colspan="6">A</td> </tr> <tr> <td colspan="6">N N X</td> </tr> <tr> <td colspan="6"> </td> </tr> </table>				Field Filtered Sample (Yes or No)	Prelim MS/MSD (Yes or No)							Total Number of Containers	8015C, DAL, GL, D51 2-(2-butoxyethoxy)ethanol						A						N N X												Preservation Codes:	
Field Filtered Sample (Yes or No)	Prelim MS/MSD (Yes or No)																Total Number of Containers																									
																		8015C, DAL, GL, D51 2-(2-butoxyethoxy)ethanol																								
																		A																								
																		N N X																								
City: Honolulu		TAT Requested (days): Rush - ASAP		A - HCL		M - Hexane																																				
State, Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		B - NaOH		N - None																																				
Phone: 808-954-4512 / 770-331-0794		PO #:		C - Zn Acetate		O - AsNaO2																																				
Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		WO #:		D - Nitric Acid		P - Na2O4S																																				
Project Name: CTO N6274223F0104		Project #: 60697810		E - NaHSO4		Q - Na2SO3																																				
Site: RH5F		SSOW#:		F - MeOH		R - Na2S2O3																																				
				G - Amchlor		S - H2SO4																																				
				H - Ascorbic Acid		T - TSP Dodecahydrate																																				
				I - Ice		U - Acetone																																				
				J - DI Water		V - MCAA																																				
				K - EDTA		W - pH 4-5																																				
				L - EDA		Z - other (specify)																																				
				Other:																																						

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, ST=Tissue, ANAL)	Field Filtered Sample (Yes or No)	Prelim MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note:
AF-RHMW16-WGN01LF-2303W3	03/20/23	1200	G	W	N	N	X	3

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 EQ/IS EDD Special Instructions/QC Requirements: DOD QSM project.


Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>Alex Edmond</i>	Date/Time: <i>03/20/23 1310</i>	Company: AECOM	Received by: <i>Alex Edmond</i>
Relinquished by: <i>Alex Edmond</i>	Date/Time: <i>3/20/23 1320</i>	Company: AECOM	Received by: <i>[Signature]</i>
Relinquished by:	Date/Time:	Company:	Received by:

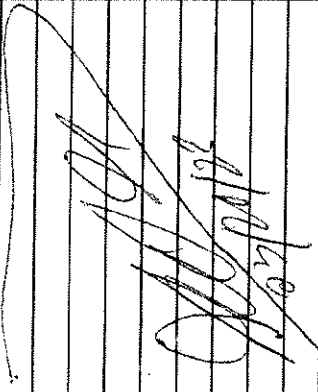
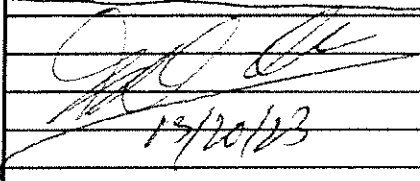
Custody Seals Intact: Yes No Custody Seal No.: Cooler Temperature(s) °C and Other Remarks: *4.5/4.5*

Ver. 01/16/2019

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

Chain of Custody Record


eurofins
 Environment Testing
 America

Client Information		Sampler: <u>GABRIEL ALLEN</u>	Lab PM: Elaine Walker	Carrier Tracking No(s): FedEx	COC No: 2303W3AFE05					
Client Contact:		Phone: <u>808-639-8434</u>	E-Mail: M.Elaine.Walker@EurofinsET.com	State of Origin: Hawaii	Page: Page 1 of 1					
Company: AECOM		PWSID:	Analysis Requested							
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Field Filtered Sample (Yes or No) Performed: MS/MS/MS (Yes or No) 8015C_DAL_GL_D3/z-(2-butoxyethoxy)-ethanol </div> <div style="text-align: center;">  </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Total Number of containers </div> </div>							
City: Honolulu		TAT Requested (days): Rush - ASAP								
State, Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No								
Phone: 808-954-4512 / 770-331-0794		PO #:								
Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		WO #:								
Project Name: CTO N6274223F0104		Project #: 60697810								
Site: RH5F		SSOW#:								
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/GI, BT=TRIAL, AM=)	Field Filtered Sample (Yes or No)	Performed: MS/MS/MS (Yes or No)	8015C_DAL_GL_D3/z-(2-butoxyethoxy)-ethanol	Total Number of containers	Special Instructions/Note:
		Preservation Code: <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L <input type="checkbox"/> Other:								
AF-RHMW12A-WGN01LF-2303W3		<u>03/20/23</u>	<u>0930</u>	G	W	N	N	X		3
AF-RHMW12A-WGFD01LF-2303W3		<u>03/20/23</u>	<u>0930</u>	G	W	N	N	X		3
 <u>13/20/23</u>										
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> 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:						
Reinquished by: <u>GABRIEL ALLEN</u>		Date/Time: <u>03/20/23/1310</u>	AECOM	Received by: <u>ALEX EDWARDS</u>		Date/Time: <u>3/21/23 1300</u>		<u>HE - air</u>		
Reinquished by: <u>ALEX EDWARDS</u>		Date/Time: <u>3/20/23 1320</u>	Company	Received by: <u>[Signature]</u>		Date/Time: <u>3/22/23 1020</u>		Company		
Reinquished by:		Date/Time:	Company	Received by:		Date/Time:		Company		
Custody Seals Intact: <input type="checkbox"/>		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:						

4.5/4.5

Ver: 01/16/2019

Chain of Custody Record

Client Information		Sampler: TESSA MURPHY		Lab Pkt: Elaine Walker		Carrier Tracking No(s): FedEX		COC No: 2303W3AFE08	
Client Contact:		Phone: 206-532-5209		E-Mail: Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page 1 of 1	
Company: AECOM		PWSID:		Analysis Requested		Job #:		Preservation Codes:	
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract		TAT Requested (days): Rush - ASAP		Total Number of containers		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 Other:	
City: Honolulu		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		PO #:		Field Filtered Sample (Yes or No)		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 X - EDTA Z - other (specify)	
Phone: 808-954-4512 / 770-331-0794		WO #:		Project #:		Perform MS/MSD (Yes or No)		Special Instructions/Note:	
Email: Watson.Tanji@aecom.com / Mark.Kromis@aecom.com		Project Name: CTO N6274223F0104		SSOW#:		8015C_DAL_GL_DS/2-(2-butylethoxy)-ethanol		580-125072 Chain of Custody	
Site: RHSF		Sample Date: 3/20/23		Sample Time: 1020		Preservation Code: G		Barcode	
Sample Identification: AF-RHMM04-WGN01LF-2303W3		Sample Type (C=Comp, G=grab)		Matrix (Residue, Solid, Other/foil, BT=Tissue, A=Air)		Special Instructions/Note:		Total Number of containers	
Possible Hazard Identification: <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Date: 3/20/23		Sample Time: 1020		Preservation Code: G		Total Number of containers	
Deliverable Requested: I, II, III, IV Other (specify)		Sample Date: 3/20/23		Sample Time: 1020		Preservation Code: G		Total Number of containers	
Empty Kit Relinquished by: Tessa Murphy		Sample Date: 3/20/23		Sample Time: 1020		Preservation Code: G		Total Number of containers	
Relinquished by: Tessa Murphy		Sample Date: 3/20/23		Sample Time: 1020		Preservation Code: G		Total Number of containers	
Relinquished by: Tessa Murphy		Sample Date: 3/20/23		Sample Time: 1020		Preservation Code: G		Total Number of containers	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Sample Date: 3/20/23		Sample Time: 1020		Preservation Code: G		Total Number of containers	
Custody Seal No: 4.0/4.0		Sample Date: 3/20/23		Sample Time: 1020		Preservation Code: G		Total Number of containers	

Chain of Custody Record

Client Information		Sampler: Elaine Walker		Carrier Tracking No(s): 2303W3AFEA09	
Client Contact: M. Tanij		Lab PM: Elaine Walker		FedEx: <input type="checkbox"/>	
Phone: 224 503 9736		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii	
Company: AECOM		PWSID:		Job #: <input type="checkbox"/>	
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract		Analysis Requested: <input type="checkbox"/>	
City: Honolulu		TAT Requested (days): Rush - ASAP		Total Number of Containers: 3	
State, Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Other: <input type="checkbox"/>	
Phone: 808-954-4512 / 770-331-0794		PO #:		Special Instructions/Note:	
Email: Watson Tanij (watson.tanij@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		WO #:			
Project Name: CTO N6274223F0104		Project #: 60697810			
Site: RH5F		SSOW#:			
Sample Identification		Sample Date		Field Filtered Sample (Yes or No)	
AF-RHMW06-WGN01LF-2303W3		02628 1210		<input checked="" type="checkbox"/>	
Sample Type (C=comp, G=grab)		Sample Time		Perform MS/MSD (Yes or No)	
G		1210		<input checked="" type="checkbox"/>	
Matrix (Water, Solid, Semi-solid, BT-1, 2, 3, 4, 5)		Preservation Code:		8015C, DAL, GL, DS/2-2-butoxyethoxy-ethanol	
W		W		<input checked="" type="checkbox"/>	
Possible Hazard Identification		Sample Date		Return To Client <input type="checkbox"/>	
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Radiological		02628 1210		Disposal By Lab <input type="checkbox"/>	
Deliverable Requested I II III IV Other (specify)		Date		Special Instructions/QC Requirements: DOD QSM project.	
Empty Kit Relinquished by:		Date		Archive For: Months	
Relinquished by: Mark Tanij		Date/Time: 03/20/23 3:30		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Relinquished by: Mark Tanij		Date/Time: 03/20/23 15:45		Return To Client <input type="checkbox"/>	
Relinquished by:		Date/Time:		Special Instructions/QC Requirements: DOD QSM project.	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Date/Time:		Method of Shipment:	
Custody Seal No: 451/45		Date/Time:		Received by: Mark Tanij	
		Date/Time:		Received by: Mark Tanij	
		Date/Time:		Received by: Mark Tanij	
Cooler Temperature: 4°C and Other Remarks:		Date/Time:		Date/Time: 3/22/23 10:30	
		Date/Time:		Date/Time: 4/5/23	

Chain of Custody Record

<p>Client Information Client Contact: GABRIEL ALLEN Phone: 808-639-8434</p>		<p>Lab Pk: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com</p>		<p>Carrier Tracking No(s): FedEX State of Origin: Hawaii</p>		<p>COC No: 2303W3AFE05 Page: Page 1 of 1 Job #:</p>	
<p>Company: AECOM Address: 1001 Bishop St. Suite 1600 City: Honolulu State, Zip: Hawaii 96813 Phone: 808-954-4512 / 770-331-0794 Email: Watson.Tanji@aecom.com / Mark.Kromis@aecom.com Project Name: CTO N6274223F0104 Site: RHSF</p>		<p>Due Date Requested: see subcontract TAT Requested (days): Rush - ASAP Compliance Project: Yes No PO #: WO #: Project #: 60697810 SSOW#: </p>		<p>Analysis Requested</p> <p>8015C_D4I_GL_D5I/2-(2-butoxyethoxy)-ethanol</p>		<p>Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2SO4 Q - NaHSO4 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA L - EDA Other: </p>	
<p>Sample Identification</p> <p>Sample Date: 02/23/2023 Sample Time: 0930 Matrix: Water Sample: 02/23/2023</p>		<p>Sample Type: G Preservation Code: W</p>		<p>Field Filtered Sample (Yes or No): X</p>		<p>Perform MS/MSD (Yes or No): X</p>	
<p>AF-RHMW12A-WGND01LF-2303W3 AF-RHMW12A-WGFD01LF-2303W3</p>		<p>Sample Date: 02/23/2023 Sample Time: 0930 Matrix: Water Sample: 02/23/2023</p>		<p>Sample Type: G Preservation Code: W</p>		<p>Field Filtered Sample (Yes or No): X</p>	
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<p>Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological</p>		<p>Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months</p>	
<p>Deliverable Requested I, II, III, IV Other (specify)</p>		<p>Special Instructions/QC Requirements DOD QSM project</p>	
<p>Empty Kit Relinquished by: GABRIEL ALLEN</p>		<p>Method of Shipment: HL</p>	
<p>Relinquished by: ASAC</p>		<p>Date/Time: 3/22/23 1020</p>	
<p>Relinquished by: </p>		<p>Date/Time: </p>	
<p>Custody Seals Intact: Custody Seal No: 4.5/4.5</p>		<p>Ver: 01/16/2019</p>	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-125072-1

Login Number: 125072
List Number: 2
Creator: Johnson, Corey M

List Source: Eurofins Savannah
List Creation: 03/23/23 07:55 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	