

 **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

580-124759-1

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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Definitions/Glossary

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

Job ID: 580-124759-1

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: 580-124759-1

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

Two samples were received on 3/15/2023 10:45 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 5.1° 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-2303W2 (580-124759-1) and AF-RHMW06-WGN01LF-2303W2 (580-124759-2) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 03/19/2023.

The continuing calibration verification (CCV) associated with batch 680-768387 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 has been reported. The associated samples are impacted: AF-RHMW04-WGN01LF-2303W2 (580-124759-1), AF-RHMW06-WGN01LF-2303W2 (580-124759-2), (CCV 680-768387/33), (CCV 680-768387/41), (580-124759-B-1 MS) and (580-124759-B-1 MSD).

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: 580-124759-1

Client Sample ID: AF-RHMW04-WGN01LF-2303W2

Lab Sample ID: 580-124759-1

No Detections.

Client Sample ID: AF-RHMW06-WGN01LF-2303W2

Lab Sample ID: 580-124759-2

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: 580-124759-1

Client Sample ID: AF-RHMW04-WGN01LF-2303W2

Lab Sample ID: 580-124759-1

Date Collected: 03/13/23 10:10

Matrix: Water

Date Received: 03/15/23 10:45

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 | | | 03/19/23 05:05 | 1 |

Client Sample ID: AF-RHMW06-WGN01LF-2303W2

Lab Sample ID: 580-124759-2

Date Collected: 03/13/23 12:25

Matrix: Water

Date Received: 03/15/23 10:45

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 | | | 03/19/23 06:15 | 1 |

Default Detection Limits

Client: AECOM

Job ID: 580-124759-1

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: 580-124759-1

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

Lab Sample ID: MB 680-768387/17
Matrix: Water
Analysis Batch: 768387

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 | | | 03/18/23 21:44 | 1 |

Lab Sample ID: LCS 680-768387/13
Matrix: Water
Analysis Batch: 768387

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 | 24.5 | | mg/L | | 123 | 50 - 150 |

Lab Sample ID: LCSD 680-768387/14
Matrix: Water
Analysis Batch: 768387

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 | 23.7 | | mg/L | | 119 | 50 - 150 | 4 | 50 |

Lab Sample ID: 580-124759-1 MS
Matrix: Water
Analysis Batch: 768387

Client Sample ID: AF-RHMW04-WGN01LF-2303W2
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 | 28.4 | | mg/L | | 142 | 50 - 150 |

Lab Sample ID: 580-124759-1 MSD
Matrix: Water
Analysis Batch: 768387

Client Sample ID: AF-RHMW04-WGN01LF-2303W2
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 | 25.7 | | mg/L | | 128 | 50 - 150 | 10 | 50 |

QC Association Summary

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

Job ID: 580-124759-1

GC Semi VOA

Analysis Batch: 768387

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------------|-----------|--------|-----------|------------|
| 580-124759-1 | AF-RHMW04-WGN01LF-2303W2 | Total/NA | Water | 8015C GLY | |
| 580-124759-2 | AF-RHMW06-WGN01LF-2303W2 | Total/NA | Water | 8015C GLY | |
| MB 680-768387/17 | Method Blank | Total/NA | Water | 8015C GLY | |
| LCS 680-768387/13 | Lab Control Sample | Total/NA | Water | 8015C GLY | |
| LCSD 680-768387/14 | Lab Control Sample Dup | Total/NA | Water | 8015C GLY | |
| 580-124759-1 MS | AF-RHMW04-WGN01LF-2303W2 | Total/NA | Water | 8015C GLY | |
| 580-124759-1 MSD | AF-RHMW04-WGN01LF-2303W2 | Total/NA | Water | 8015C GLY | |

Lab Chronicle

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

Job ID: 580-124759-1

Client Sample ID: AF-RHMW04-WGN01LF-2303W2

Lab Sample ID: 580-124759-1

Date Collected: 03/13/23 10:10

Matrix: Water

Date Received: 03/15/23 10:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8015C GLY | | 1 | 768387 | JCK | EET SAV | 03/19/23 05:05 |

Client Sample ID: AF-RHMW06-WGN01LF-2303W2

Lab Sample ID: 580-124759-2

Date Collected: 03/13/23 12:25

Matrix: Water

Date Received: 03/15/23 10:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8015C GLY | | 1 | 768387 | JCK | EET SAV | 03/19/23 06:15 |

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 580-124759-1

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: 580-124759-1

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: 580-124759-1

Project/Site: Red Hill - AFFF Assessment Sampling

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|--------------------------|--------|----------------|----------------|
| 580-124759-1 | AF-RHMW04-WGN01LF-2303W2 | Water | 03/13/23 10:10 | 03/15/23 10:45 |
| 580-124759-2 | AF-RHMW06-WGN01LF-2303W2 | Water | 03/13/23 12:25 | 03/15/23 10:45 |

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-124759-1

SDG No.: _____

Instrument ID: CVGG2 Analysis Batch Number: 768387

Lab Sample ID: ICIS 680-768387/8 Client Sample ID: _____

Date Analyzed: 03/18/23 18:14 Lab File ID: GC18008.D GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| Propylene glycol | 6.35 | Baseline Smoothing | SWK1 | 03/19/23 17:24 |

Lab Sample ID: IC 680-768387/9 Client Sample ID: _____

Date Analyzed: 03/18/23 18:37 Lab File ID: GC18009.D GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| Propylene glycol | 6.35 | Baseline Smoothing | SWK1 | 03/19/23 17:24 |
| Ethylene glycol | 6.57 | Baseline Smoothing | SWK1 | 03/19/23 17:24 |

Lab Sample ID: IC 680-768387/10 Client Sample ID: _____

Date Analyzed: 03/18/23 19:01 Lab File ID: GC18010.D GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| Propylene glycol | 6.35 | Baseline Smoothing | SWK1 | 03/19/23 17:25 |
| Ethylene glycol | 6.56 | Baseline Smoothing | SWK1 | 03/19/23 17:24 |

Lab Sample ID: IC 680-768387/11 Client Sample ID: _____

Date Analyzed: 03/18/23 19:24 Lab File ID: GC18011.D GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| Propylene glycol | 6.35 | Baseline Smoothing | SWK1 | 03/19/23 17:25 |
| Ethylene glycol | 6.56 | Baseline Smoothing | SWK1 | 03/19/23 17:25 |

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-124759-1

SDG No.: _____

Instrument ID: CVGG2 Analysis Batch Number: 768387

Lab Sample ID: ICV 680-768387/12 CCV Client Sample ID: _____

Date Analyzed: 03/18/23 19:47 Lab File ID: GC18012.D GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| Dipropylene Glycol Methyl Ether | 5.13 | Baseline Smoothing | SWK1 | 03/19/23 17:25 |

Lab Sample ID: MB 680-768387/17 Client Sample ID: _____

Date Analyzed: 03/18/23 21:44 Lab File ID: GC18017.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 | 03/19/23 18:09 |

Lab Sample ID: 580-124759-1 Client Sample ID: AF-RHMW04-WGN01LF-2303W2

Date Analyzed: 03/19/23 05:05 Lab File ID: GC18036.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 | 03/19/23 18:11 |

Lab Sample ID: 580-124759-2 Client Sample ID: AF-RHMW06-WGN01LF-2303W2

Date Analyzed: 03/19/23 06:15 Lab File ID: GC18039.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 | 03/19/23 18:12 |

Lab Sample ID: CCV 680-768387/41 Client Sample ID: _____

Date Analyzed: 03/19/23 07:01 Lab File ID: GC18041.D GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| Ethylene glycol | 6.35 | Baseline Smoothing | SWK1 | 03/19/23 18:12 |
| Propylene glycol | 6.60 | Baseline Smoothing | SWK1 | 03/19/23 18:12 |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-124759-1

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

Certificate of Analysis

Rev 0

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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

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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.

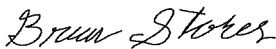
Expiration Information:

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:

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

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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

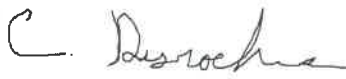
Manufactured By:



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

7290B Investment Drive • North Charleston, SC 29418
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.: 580-124759-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: GC18013.D
 Lab ID: LCS 680-768387/13 Client ID: _____

| COMPOUND | SPIKE ADDED (mg/L) | LCS CONCENTRATION (mg/L) | LCS % REC | QC LIMITS REC | # |
|----------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| 2-(2-Butoxyethoxy) ethanol | 20.0 | 24.5 | 123 | 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.: 580-124759-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: GC18014.D
 Lab ID: LCSD 680-768387/14 Client ID: _____

| COMPOUND | SPIKE ADDED (mg/L) | LCSD CONCENTRATION (mg/L) | LCSD % REC | % RPD | QC LIMITS | | # |
|----------------------------|--------------------------|---------------------------------|------------------|----------|-----------|--------|---|
| | | | | | RPD | REC | |
| 2-(2-Butoxyethoxy) ethanol | 20.0 | 23.7 | 119 | 4 | 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.: 580-124759-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: GC18037.D
 Lab ID: 580-124759-1 MS Client ID: AF-RHMW04-WGN01LF-2303W2 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 | 28.4 | 142 | 50-150 | |

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

FORM III
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-124759-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: GC18038.D
 Lab ID: 580-124759-1 MSD Client ID: AF-RHMW04-WGN01LF-2303W2 MSD

| COMPOUND | SPIKE ADDED (mg/L) | MSD CONCENTRATION (mg/L) | MSD % REC | % RPD | QC LIMITS | | # |
|----------------------------|--------------------------|--------------------------------|-----------------|----------|-----------|--------|---|
| | | | | | RPD | REC | |
| 2-(2-Butoxyethoxy) ethanol | 20.0 | 25.7 | 128 | 10 | 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.: 580-124759-1
 SDG No.: _____
 Lab Sample ID: MB 680-768387/17
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) GC18017.D Lab File ID: (2) _____
 Date Analyzed: (1) 03/18/2023 21:44 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 680-768387/13 | 03/18/2023 20:11 | |
| | LCSD 680-768387/14 | 03/18/2023 20:34 | |
| AF-RHMW04-WGN01LF-2303W2 | 580-124759-1 | 03/19/2023 05:05 | |
| AF-RHMW04-WGN01LF-2303W2 MS | 580-124759-1 MS | 03/19/2023 05:28 | |
| AF-RHMW04-WGN01LF-2303W2 MSD | 580-124759-1 MSD | 03/19/2023 05:52 | |
| AF-RHMW06-WGN01LF-2303W2 | 580-124759-2 | 03/19/2023 06:15 | |

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

Lab Name: Eurofins Savannah Job No.: 580-124759-1
 SDG No.: _____
 Sample No.: ICIS 680-768387/8 Date Analyzed: 03/18/2023 18:14
 Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm)
 Lab File ID (Standard): GC18008.D Heated Purge: (Y/N) N
 Calibration ID: 90309

| | | nHPA | | | | | |
|-------------------------------|----------------------------------|----------|------|---|------|---|------|
| | | AREA # | RT # | # | RT # | # | RT # |
| INITIAL CALIBRATION MID-POINT | | 5093613 | 4.21 | | | | |
| UPPER LIMIT | | 10187226 | 4.71 | | | | |
| LOWER LIMIT | | 2546807 | 3.71 | | | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 680-768387/12 CCV | | 5958489 | 4.21 | | | | |
| LCS 680-768387/13 | | 4926411 | 4.21 | | | | |
| LCSD 680-768387/14 | | 5427583 | 4.21 | | | | |
| MB 680-768387/17 | | 6245745 | 4.21 | | | | |
| CCV 680-768387/33 | | 5776224 | 4.19 | | | | |
| 580-124759-1 | AF-RHMW04-WGN01LF-2 303W2 | 6473727 | 4.19 | | | | |
| 580-124759-1 MS | AF-RHMW04-WGN01LF-2 303W2 MS | 5691072 | 4.19 | | | | |
| 580-124759-1 MSD | AF-RHMW04-WGN01LF-2 303W2 MSD | 5815695 | 4.20 | | | | |
| 580-124759-2 | AF-RHMW06-WGN01LF-2 303W2 | 6282070 | 4.20 | | | | |
| CCV 680-768387/41 | | 5719787 | 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 I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-124759-1
 SDG No.: _____
 Client Sample ID: AF-RHMW04-WGN01LF-2303W2 Lab Sample ID: 580-124759-1
 Matrix: Water Lab File ID: GC18036.D
 Analysis Method: 8015C GLY Date Collected: 03/13/2023 10:10
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 03/19/2023 05:05
 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.: 768387 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\20230318-84498.b\GC18036.D
 Lims ID: 580-124759-B-1
 Client ID: AF-RHMW04-WGN01LF-2303W2
 Sample Type: Client
 Inject. Date: 19-Mar-2023 05:05:42 ALS Bottle#: 0 Worklist Smp#: 36
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084498-036
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 19-Mar-2023 18:12:27 Calib Date: 18-Mar-2023 19:24:22
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1624

First Level Reviewer: SWK1 Date: 19-Mar-2023 18:11:30

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

* 4 n-Heptyl Alcohol
 4.186 4.189 -0.003 6473727 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\20230318-84498.b\GC18036.D

Injection Date: 19-Mar-2023 05:05:42

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-124759-B-1

Lab Sample ID: 680-124759-1

Worklist Smp#: 36

Client ID: AF-RHMMW04-WGN01LF-2303W2

Injection Vol: 1.0 ul

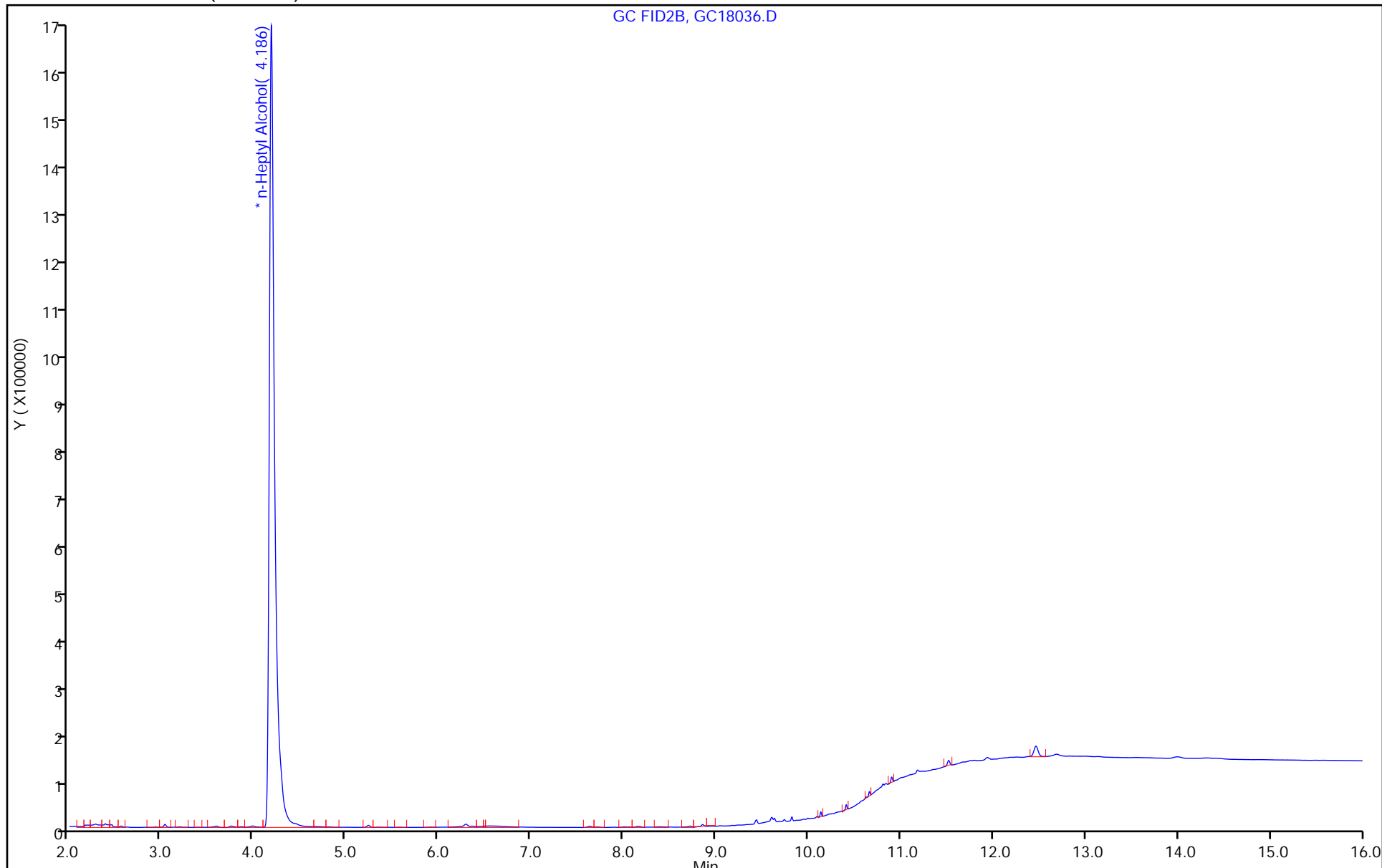
Dil. Factor: 1.0000

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.: 580-124759-1
 SDG No.: _____
 Client Sample ID: AF-RHMW06-WGN01LF-2303W2 Lab Sample ID: 580-124759-2
 Matrix: Water Lab File ID: GC18039.D
 Analysis Method: 8015C GLY Date Collected: 03/13/2023 12:25
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 03/19/2023 06:15
 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.: 768387 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\20230318-84498.b\GC18039.D
 Lims ID: 580-124759-B-2
 Client ID: AF-RHMW06-WGN01LF-2303W2
 Sample Type: Client
 Inject. Date: 19-Mar-2023 06:15:13 ALS Bottle#: 0 Worklist Smp#: 39
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084498-039
 Operator ID: Instrument ID: CVGG2

Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 19-Mar-2023 18:12:27 Calib Date: 18-Mar-2023 19:24:22
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1624

First Level Reviewer: SWK1 Date: 19-Mar-2023 18:12:05

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

* 4 n-Heptyl Alcohol
 4.204 4.189 0.015 6282070 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\20230318-84498.b\GC18039.D

Injection Date: 19-Mar-2023 06:15:13

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-124759-B-2

Lab Sample ID: 680-124759-2

Worklist Smp#: 39

Client ID: AF-RHMMW06-WGN01LF-2303W2

Injection Vol: 1.0 ul

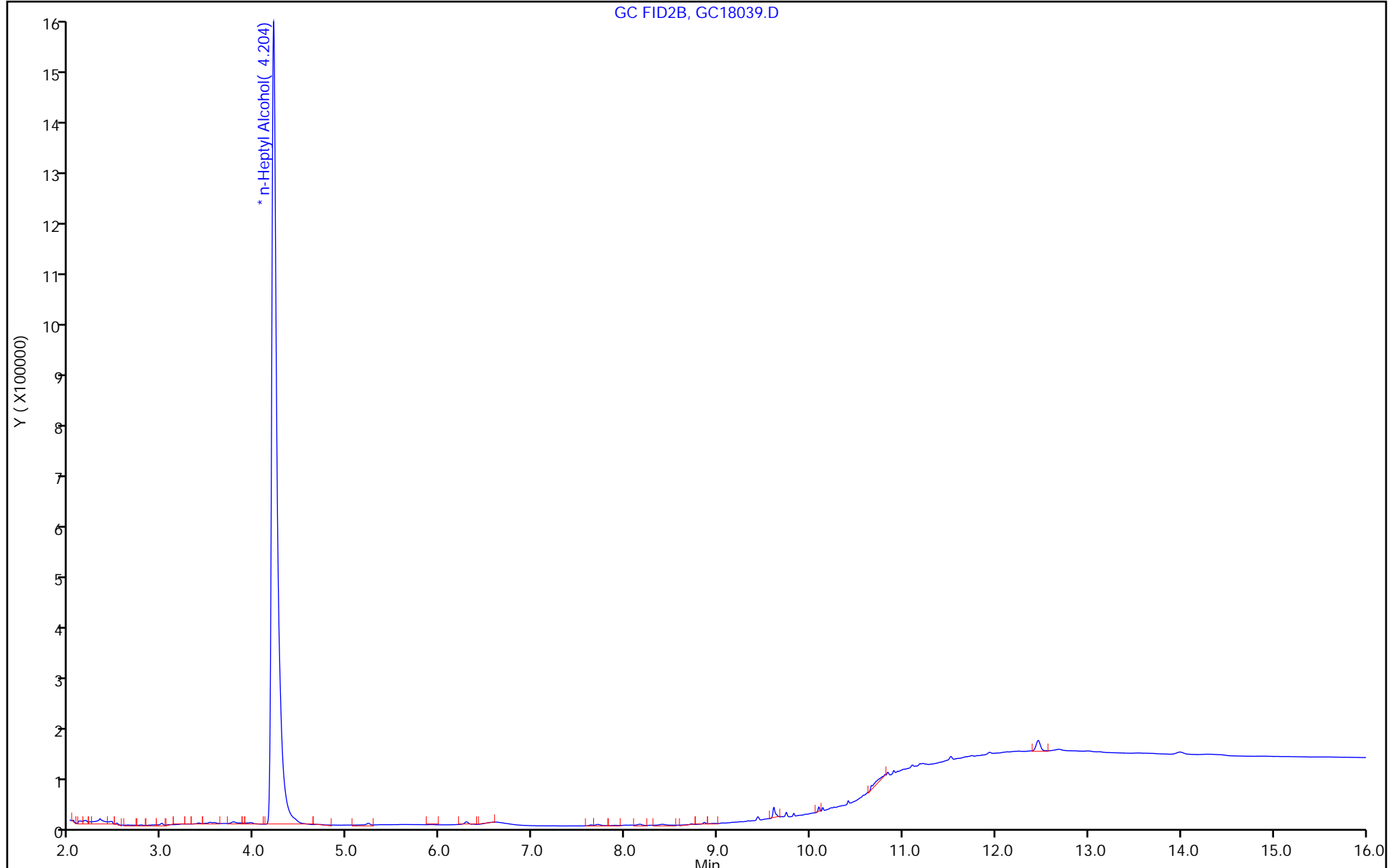
Dil. Factor: 1.0000

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.: 580-124759-1 Analy Batch No.: 768387

SDG No.: _____

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

Calibration Start Date: 03/18/2023 17:04 Calibration End Date: 03/18/2023 19:24 Calibration ID: 90309

Calibration Files

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---------|-------------------|--------------|
| Level 1 | IC 680-768387/11 | GC18011.D |
| Level 2 | IC 680-768387/10 | GC18010.D |
| Level 3 | IC 680-768387/9 | GC18009.D |
| Level 4 | ICIS 680-768387/8 | GC18008.D |
| Level 5 | IC 680-768387/7 | GC18007.D |
| Level 6 | IC 680-768387/6 | GC18006.D |
| Level 7 | IC 680-768387/5 | GC18005.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 | 0.9797 ++++ | 0.6753 0.5541 | 0.6451 | 0.6259 | 0.5698 | Lin2 | 0.826 0 | 0.553 9 | | | | | | 0.9970 | | 0.9900 | |
| 4-Hydroxy-4-methyl-2-pentanone | 0.8959 ++++ | 0.6166 0.5112 | 0.5814 | 0.5947 | 0.5199 | Lin2 | 0.742 3 | 0.511 1 | | | | | | 0.9950 | | 0.9900 | |
| 2-Butoxyethanol | 1.1329 ++++ | 0.7649 0.6289 | 0.7257 | 0.6919 | 0.6197 | Lin2 | 1.011 2 | 0.612 4 | | | | | | 0.9970 | | 0.9900 | |
| Dipropylene Glycol Methyl Ether | 0.0677 ++++ | 0.0460 0.0414 | 0.0444 | 0.0471 | 0.0353 | Lin1 | 0.052 7 | 0.039 3 | | | | | | 0.9910 | | 0.9900 | |
| Propylene glycol | 0.2329 ++++ | 0.1518 0.1204 | 0.1269 | 0.1201 | 0.0942 | QuaF | | 0.089 7 | 0.0002968 | | | | | 0.9920 | | 0.9900 | |
| Ethylene glycol | 0.6982 ++++ | 0.4996 0.4625 | 0.4595 | 0.4908 | 0.4389 | Lin2 | 0.492 3 | 0.436 0 | | | | | | 0.9950 | | 0.9900 | |
| 2-(2-Butoxyethoxy)ethanol | 0.8081 ++++ | 0.5436 0.4629 | 0.4944 | 0.5203 | 0.4079 | Lin2 | 0.725 8 | 0.433 1 | | | | | | 0.9910 | | 0.9900 | |
| 2,2'-Oxybisethanol | 0.4242 ++++ | 0.2842 0.2690 | 0.2662 | 0.2584 | 0.2292 | Lin2 | 0.355 6 | 0.236 4 | | | | | | 0.9910 | | 0.9900 | |
| Triethylene Glycol | 0.2954 ++++ | 0.2299 0.2640 | 0.2485 | 0.2466 | 0.2103 | Ave | | 0.249 1 | | | 11.7 | 20.0 | | | | | |
| Tetraethylene Glycol | 0.3281 ++++ | 0.2334 0.2712 | 0.2355 | 0.2550 | 0.2102 | Ave | | 0.255 5 | | | 16.1 | 20.0 | | | | | |

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

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

Lab Name: Eurofins Savannah Job No.: 580-124759-1 Analy Batch No.: 768387

SDG No.: _____

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

Calibration Start Date: 03/18/2023 17:04 Calibration End Date: 03/18/2023 19:24 Calibration ID: 90309

Calibration Files

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---------|-------------------|--------------|
| Level 1 | IC 680-768387/11 | GC18011.D |
| Level 2 | IC 680-768387/10 | GC18010.D |
| Level 3 | IC 680-768387/9 | GC18009.D |
| Level 4 | ICIS 680-768387/8 | GC18008.D |
| Level 5 | IC 680-768387/7 | GC18007.D |
| Level 6 | IC 680-768387/6 | GC18006.D |
| Level 7 | IC 680-768387/5 | GC18005.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 | 222886 ++++ | 393646 5691872 | 623221 | 1275273 | 2157619 | 2.00 ++++ | 5.00 100 | 10.0 | 20.0 | 50.0 |
| 4-Hydroxy-4-methyl-2-pentanone | nHPA | Lin2 | 203822 ++++ | 359475 5251000 | 561636 | 1211619 | 1968767 | 2.00 ++++ | 5.00 100 | 10.0 | 20.0 | 50.0 |
| 2-Butoxyethanol | nHPA | Lin2 | 257721 ++++ | 445899 6460473 | 701048 | 1409738 | 2346417 | 2.00 ++++ | 5.00 100 | 10.0 | 20.0 | 50.0 |
| Dipropylene Glycol Methyl Ether | nHPA | Lin1 | 15393 ++++ | 26829 425339 | 42940 | 95904 | 133778 | 2.00 ++++ | 5.00 100 | 10.0 | 20.0 | 50.0 |
| Propylene glycol | nHPA | QuaF | 52980 ++++ | 88495 1236652 | 122580 | 244697 | 356532 | 2.00 ++++ | 5.00 100 | 10.0 | 20.0 | 50.0 |
| Ethylene glycol | nHPA | Lin2 | 158828 ++++ | 291250 4750731 | 443908 | 1000032 | 1662010 | 2.00 ++++ | 5.00 100 | 10.0 | 20.0 | 50.0 |
| 2-(2-Butoxyethoxy)ethanol | nHPA | Lin2 | 183850 ++++ | 316916 4754705 | 477636 | 1060164 | 1544400 | 2.00 ++++ | 5.00 100 | 10.0 | 20.0 | 50.0 |
| 2,2'-Oxybisethanol | nHPA | Lin2 | 96509 ++++ | 165658 2763044 | 257168 | 526527 | 867744 | 2.00 ++++ | 5.00 100 | 10.0 | 20.0 | 50.0 |
| Triethylene Glycol | nHPA | Ave | 67193 ++++ | 134028 2711975 | 240062 | 502431 | 796311 | 2.00 ++++ | 5.00 100 | 10.0 | 20.0 | 50.0 |
| Tetraethylene Glycol | nHPA | Ave | 149265 ++++ | 272086 5570856 | 454932 | 1039032 | 1591784 | 4.00 ++++ | 10.0 200 | 20.0 | 40.0 | 100 |

Curve Type Legend

| |
|-----------------------------------|
| Ave = Average ISTD |
| Lin1 = Linear 1/conc ISTD |
| Lin2 = Linear 1/conc^2 ISTD |
| QuaF = Quadratic ISTD forced zero |

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

Lab Name: Eurofins Savannah Job No.: 580-124759-1 Analy Batch No.: 768387

SDG No.: _____

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

Calibration Start Date: 03/18/2023 17:04 Calibration End Date: 03/18/2023 19:24 Calibration ID: 90309

Calibration Files

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---------|-------------------|--------------|
| Level 1 | IC 680-768387/11 | GC18011.D |
| Level 2 | IC 680-768387/10 | GC18010.D |
| Level 3 | IC 680-768387/9 | GC18009.D |
| Level 4 | ICIS 680-768387/8 | GC18008.D |
| Level 5 | IC 680-768387/7 | GC18007.D |
| Level 6 | IC 680-768387/6 | GC18006.D |
| Level 7 | IC 680-768387/5 | GC18005.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 | 2.3 -1.4 | -7.9 | 1.6 | 5.6 | -0.1 | ++++ | 20 20 | 20 | 20 | 20 | 20 | |
| 4-Hydroxy-4-methyl-2-pentanone | 2.7 -1.4 | -8.4 | -0.8 | 9.1 | -1.2 | ++++ | 20 20 | 20 | 20 | 20 | 20 | |
| 2-Butoxyethanol | 2.4 1.1 | -8.1 | 2.0 | 4.7 | -2.1 | ++++ | 20 20 | 20 | 20 | 20 | 20 | |
| Dipropylene Glycol Methyl Ether | 5.2 4.1 | -9.6 | -0.2 | 13.2 | -12.7 | ++++ | 20 20 | 20 | 20 | 20 | 20 | |
| Ethylene glycol | 3.7 4.9 | -8.0 | -5.9 | 6.9 | -1.6 | ++++ | 20 20 | 20 | 20 | 20 | 20 | |
| 2-(2-Butoxyethoxy)ethanol | 2.8 5.2 | -8.0 | -2.6 | 11.8 | -9.2 | ++++ | 20 20 | 20 | 20 | 20 | 20 | |
| 2,2'-Oxybisethanol | 4.2 12.3 | -9.9 | -2.4 | 1.8 | -6.1 | ++++ | 20 20 | 20 | 20 | 20 | 20 | |
| Triethylene Glycol | 18.6 6.0 | -7.7 | -0.2 | -1.0 | -15.6 | ++++ | 20 20 | 20 | 20 | 20 | 20 | |
| Tetraethylene Glycol | 28.4 * 6.1 | -8.7 | -7.9 | -0.2 | -17.7 | ++++ | 20 20 | 20 | 20 | 20 | 20 | |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18005.D
 Lims ID: ic g7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 18-Mar-2023 17:04:34 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084498-005
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 19-Mar-2023 17:28:21 Calib Date: 18-Mar-2023 19:24:22
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1624

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

| | | | | | | |
|-----------------------------------|--------|--------|--------|---------|-------|-------|
| 1 Ethanol, 2-propoxy | 2.915 | 2.915 | 0.000 | 5691872 | 100.0 | 98.6 |
| 2 4-Hydroxy-4-methyl-2-pentanone | 3.460 | 3.466 | -0.006 | 5251000 | 100.0 | 98.6 |
| 3 2-Butoxyethanol | 3.762 | 3.758 | 0.004 | 6460473 | 100.0 | 101.1 |
| * 4 n-Heptyl Alcohol | 4.217 | 4.207 | 0.010 | 5135926 | 50.0 | 50.0 |
| 5 Dipropylene Glycol Methyl Ether | 5.129 | 5.133 | -0.004 | 425339 | 100.0 | 104.1 |
| 6 Propylene glycol | 6.350 | 6.348 | 0.002 | 1236652 | 100.0 | 100.7 |
| 7 Ethylene glycol | 6.552 | 6.563 | -0.011 | 4750731 | 100.0 | 104.9 |
| 8 2-(2-Butoxyethoxy)ethanol | 8.402 | 8.403 | -0.001 | 4754705 | 100.0 | 105.2 |
| 9 2,2'-Oxybisethanol | 9.599 | 9.599 | 0.000 | 2763044 | 100.0 | 112.3 |
| 10 Triethylene Glycol | 10.627 | 10.627 | 0.000 | 2711975 | 100.0 | 106.0 |
| 11 Tetraethylene Glycol | 11.762 | 11.762 | 0.000 | 5570856 | 200.0 | 212.2 |

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\20230318-84498.b\GC18005.D

Injection Date: 18-Mar-2023 17:04:34

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g7

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

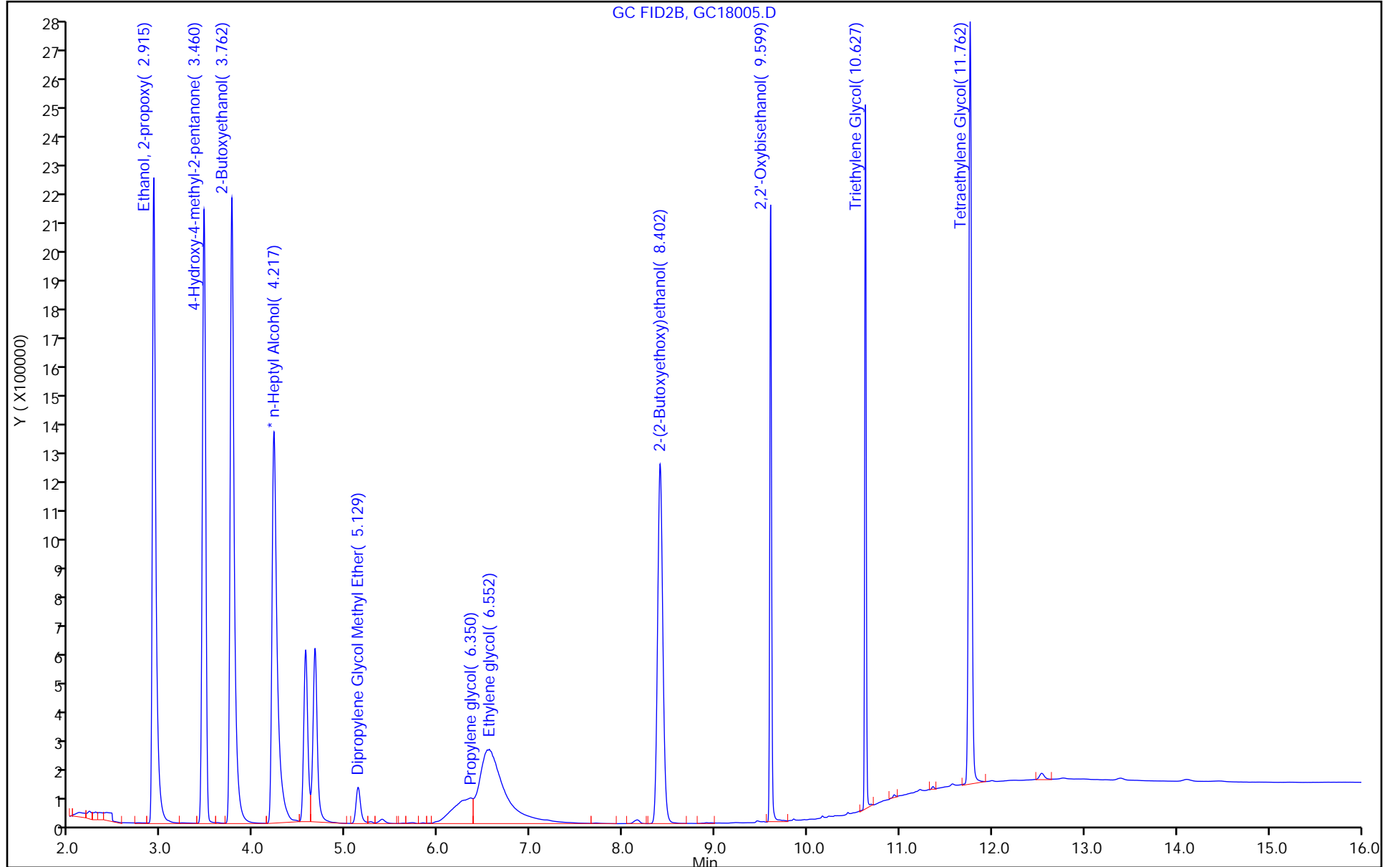
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18006.D
 Lims ID: ic g6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 18-Mar-2023 17:27:50 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084498-006
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 19-Mar-2023 17:28:21 Calib Date: 18-Mar-2023 19:24:22
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1624

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

| | | | | | | |
|-----------------------------------|--------|--------|--------|---------|-------|-------|
| 1 Ethanol, 2-propoxy | 2.914 | 2.915 | -0.001 | 2856104 | 80.0 | 56.9 |
| 2 4-Hydroxy-4-methyl-2-pentanone | 3.459 | 3.466 | -0.007 | 2600506 | 80.0 | 56.2 |
| 3 2-Butoxyethanol | 3.760 | 3.758 | 0.002 | 3191941 | 80.0 | 57.4 |
| * 4 n-Heptyl Alcohol | 4.216 | 4.207 | 0.009 | 4412500 | 50.0 | 50.0 |
| 5 Dipropylene Glycol Methyl Ether | 5.129 | 5.133 | -0.004 | 201352 | 80.0 | 56.8 |
| 6 Propylene glycol | 6.344 | 6.348 | -0.004 | 575827 | 80.0 | 60.6 |
| 7 Ethylene glycol | 6.552 | 6.563 | -0.011 | 2430100 | 80.0 | 62.0 |
| 8 2-(2-Butoxyethoxy)ethanol | 8.402 | 8.403 | -0.001 | 2212254 | 80.0 | 56.2 |
| 9 2,2'-Oxybisethanol | 9.599 | 9.599 | 0.000 | 1269782 | 80.0 | 59.4 |
| 10 Triethylene Glycol | 10.627 | 10.627 | 0.000 | 1180621 | 80.0 | 53.7 |
| 11 Tetraethylene Glycol | 11.759 | 11.762 | -0.003 | 2383178 | 160.0 | 105.7 |

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\20230318-84498.b\GC18006.D

Injection Date: 18-Mar-2023 17:27:50

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g6

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

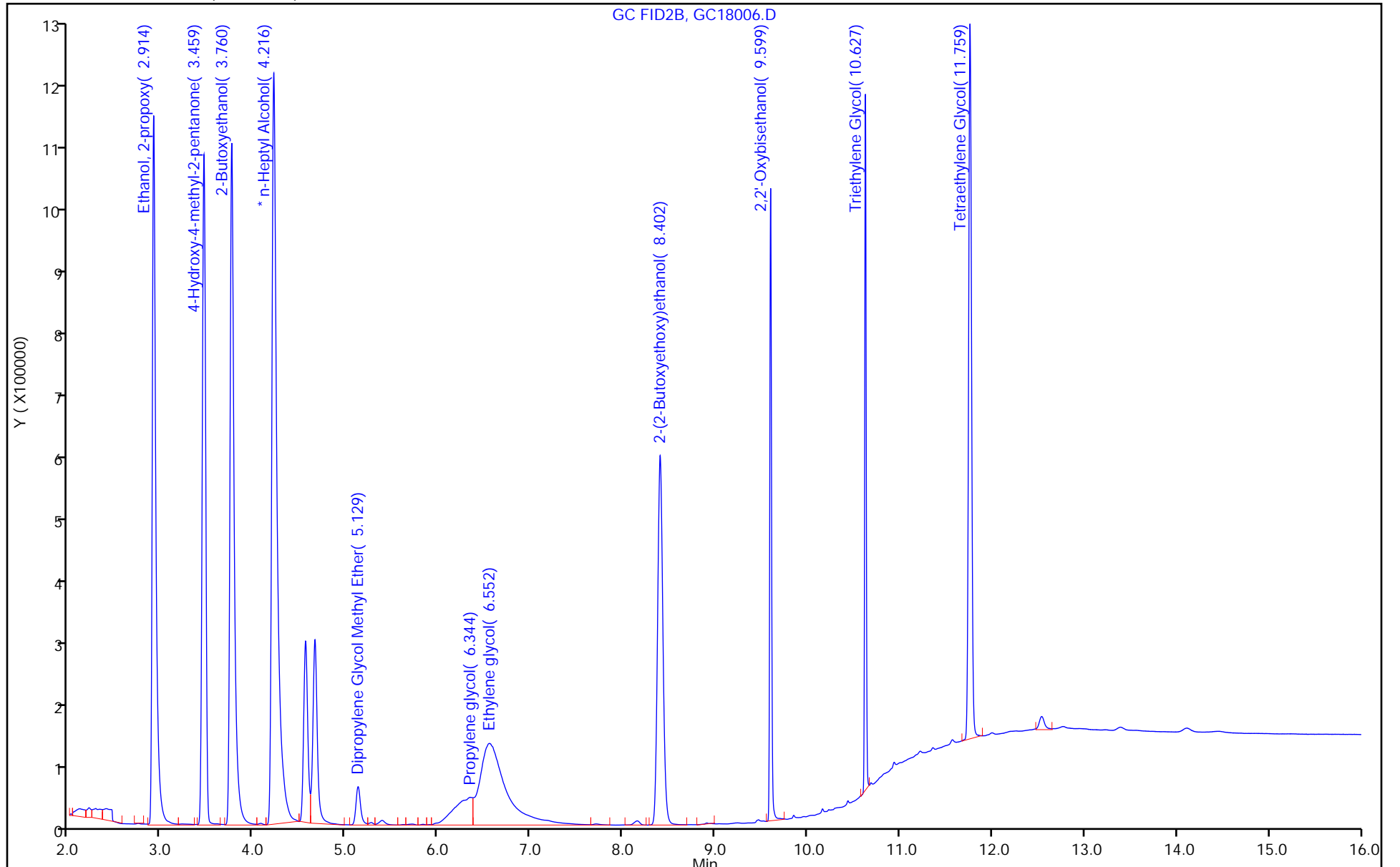
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18007.D
 Lims ID: ic g5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 18-Mar-2023 17:51:13 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084498-007
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 19-Mar-2023 17:28:22 Calib Date: 18-Mar-2023 19:24:22
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1624

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

| | | | | | | |
|-----------------------------------|--------|--------|--------|---------|-------|------|
| 1 Ethanol, 2-propoxy | 2.916 | 2.915 | 0.001 | 2157619 | 50.0 | 49.9 |
| 2 4-Hydroxy-4-methyl-2-pentanone | 3.468 | 3.466 | 0.002 | 1968767 | 50.0 | 49.4 |
| 3 2-Butoxyethanol | 3.758 | 3.758 | 0.000 | 2346417 | 50.0 | 48.9 |
| * 4 n-Heptyl Alcohol | 4.207 | 4.207 | 0.000 | 3786538 | 50.0 | 50.0 |
| 5 Dipropylene Glycol Methyl Ether | 5.133 | 5.133 | 0.000 | 133778 | 50.0 | 43.6 |
| 6 Propylene glycol | 6.353 | 6.348 | 0.005 | 356532 | 50.0 | 45.6 |
| 7 Ethylene glycol | 6.559 | 6.563 | -0.004 | 1662010 | 50.0 | 49.2 |
| 8 2-(2-Butoxyethoxy)ethanol | 8.401 | 8.403 | -0.002 | 1544400 | 50.0 | 45.4 |
| 9 2,2'-Oxybisethanol | 9.599 | 9.599 | 0.000 | 867744 | 50.0 | 47.0 |
| 10 Triethylene Glycol | 10.627 | 10.627 | 0.000 | 796311 | 50.0 | 42.2 |
| 11 Tetraethylene Glycol | 11.761 | 11.762 | -0.001 | 1591784 | 100.0 | 82.3 |

Reagents:

SG_Gly_CAL_00048 Amount Added: 25.00 Units: uL
 SG_GLY_ISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18007.D

Injection Date: 18-Mar-2023 17:51:13

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g5

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

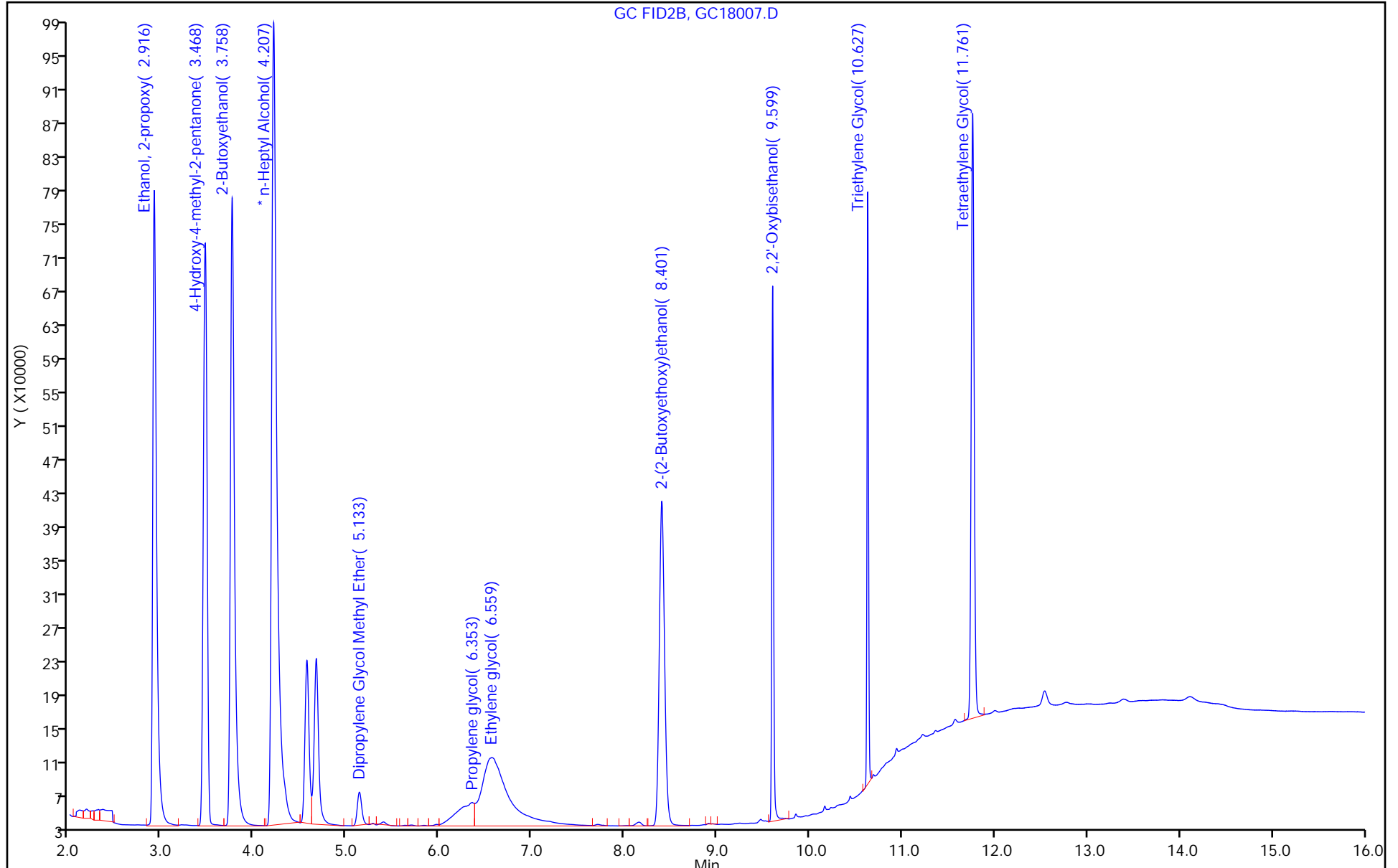
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18008.D
 Lims ID: icis g4
 Client ID:
 Sample Type: ICIS Calib Level: 4
 Inject. Date: 18-Mar-2023 18:14:28 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084498-008
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 19-Mar-2023 17:28:23 Calib Date: 18-Mar-2023 19:24:22
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1624

First Level Reviewer: SWK1 Date: 19-Mar-2023 17:24:33

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

| | | | | | | | |
|-----------------------------------|--------|--------|-------|---------|------|------|---|
| 1 Ethanol, 2-propoxy | 2.915 | 2.915 | 0.000 | 1275273 | 20.0 | 21.1 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | 3.466 | 3.466 | 0.000 | 1211619 | 20.0 | 21.8 | |
| 3 2-Butoxyethanol | 3.758 | 3.758 | 0.000 | 1409738 | 20.0 | 20.9 | |
| * 4 n-Heptyl Alcohol | 4.207 | 4.207 | 0.000 | 5093613 | 50.0 | 50.0 | |
| 5 Dipropylene Glycol Methyl Ether | 5.133 | 5.133 | 0.000 | 95904 | 20.0 | 22.6 | |
| 6 Propylene glycol | 6.348 | 6.348 | 0.000 | 244697 | 20.0 | 24.8 | M |
| 7 Ethylene glycol | 6.563 | 6.563 | 0.000 | 1000032 | 20.0 | 21.4 | |
| 8 2-(2-Butoxyethoxy)ethanol | 8.403 | 8.403 | 0.000 | 1060164 | 20.0 | 22.4 | |
| 9 2,2'-Oxybisethanol | 9.599 | 9.599 | 0.000 | 526527 | 20.0 | 20.4 | |
| 10 Triethylene Glycol | 10.627 | 10.627 | 0.000 | 502431 | 20.0 | 19.8 | |
| 11 Tetraethylene Glycol | 11.762 | 11.762 | 0.000 | 1039032 | 40.0 | 39.9 | |

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\20230318-84498.b\GC18008.D

Injection Date: 18-Mar-2023 18:14:28

Instrument ID: CVGG2

Operator ID:

Lims ID: icis g4

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

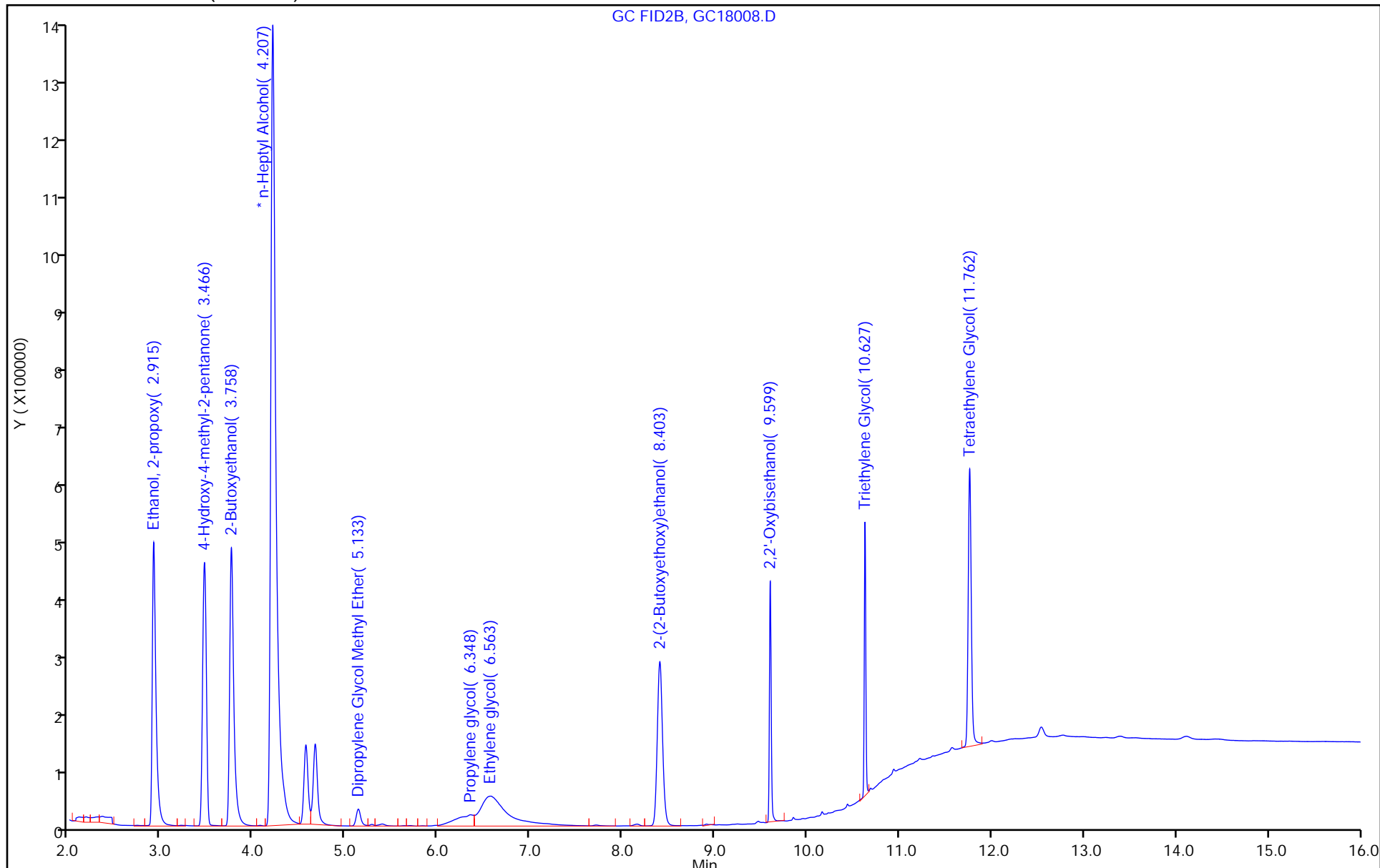
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

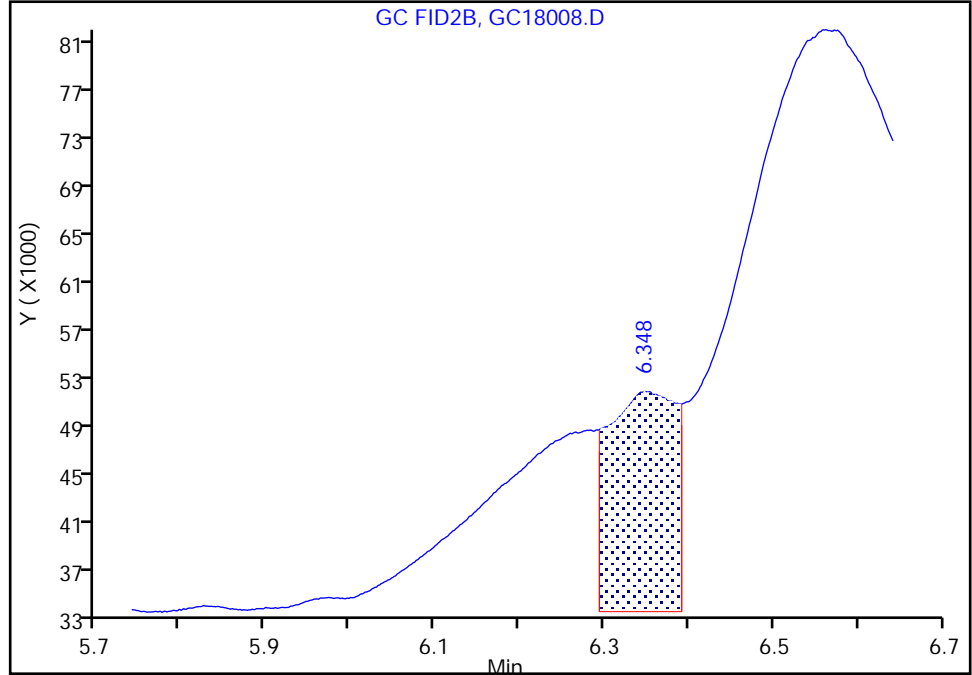
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Injection Date: 18-Mar-2023 18:14:28 Instrument ID: CVGG2
Lims ID: icis g4
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

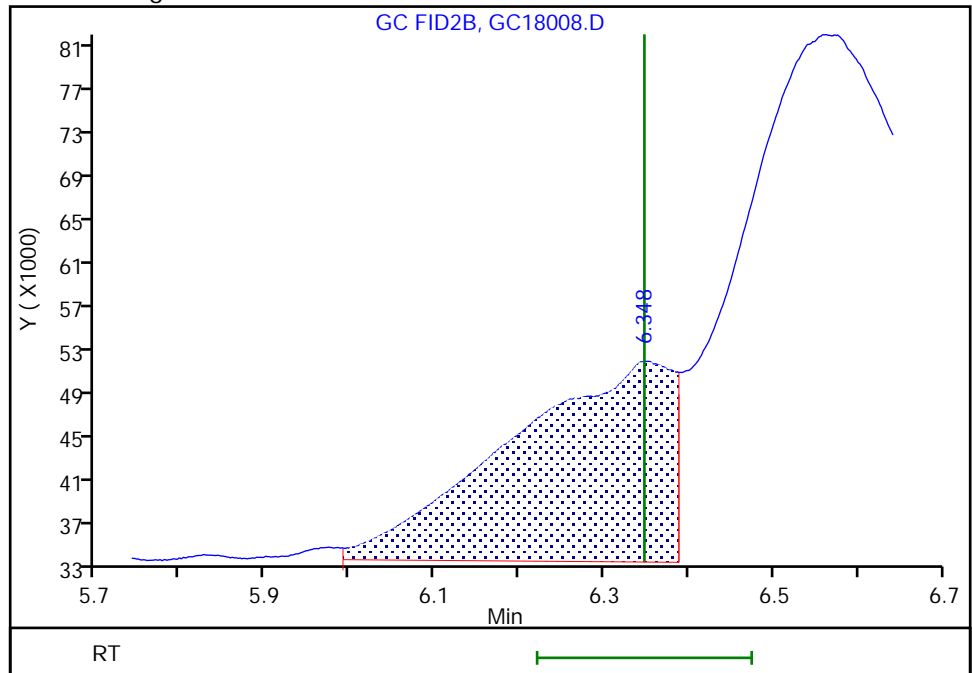
RT: 6.35
Area: 99268
Amount: 12.494177
Amount Units: ug/ml

Processing Integration Results



RT: 6.35
Area: 244697
Amount: 24.761076
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 19-Mar-2023 17:24:29
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing
Page 56 of 129

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18009.D
 Lims ID: ic g3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 18-Mar-2023 18:37:46 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084498-009
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 19-Mar-2023 17:28:23 Calib Date: 18-Mar-2023 19:24:22
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1624

First Level Reviewer: SWK1 Date: 19-Mar-2023 17:24:49

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------------------------------|------------------|------------------|----------|------------------|--------------------|-------|
| 1 Ethanol, 2-propoxy | | | | | | |
| 2.911 | 2.915 | -0.004 | 623221 | 10.0 | 10.2 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 3.461 | 3.466 | -0.005 | 561636 | 10.0 | 9.92 | |
| 3 2-Butoxyethanol | | | | | | |
| 3.756 | 3.758 | -0.002 | 701048 | 10.0 | 10.2 | |
| * 4 n-Heptyl Alcohol | | | | | | |
| 4.206 | 4.207 | -0.001 | 4830177 | 50.0 | 50.0 | |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 5.130 | 5.133 | -0.003 | 42940 | 10.0 | 9.98 | |
| 6 Propylene glycol | | | | | | |
| 6.345 | 6.348 | -0.003 | 122580 | 10.0 | 13.5 | M |
| 7 Ethylene glycol | | | | | | |
| 6.566 | 6.563 | 0.003 | 443908 | 10.0 | 9.41 | M |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 8.401 | 8.403 | -0.002 | 477636 | 10.0 | 9.74 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 9.600 | 9.599 | 0.001 | 257168 | 10.0 | 9.76 | |
| 10 Triethylene Glycol | | | | | | |
| 10.628 | 10.627 | 0.001 | 240062 | 10.0 | 9.98 | |
| 11 Tetraethylene Glycol | | | | | | |
| 11.765 | 11.762 | 0.003 | 454932 | 20.0 | 18.4 | |

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

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\20230318-84498.b\GC18009.D

Injection Date: 18-Mar-2023 18:37:46

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g3

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

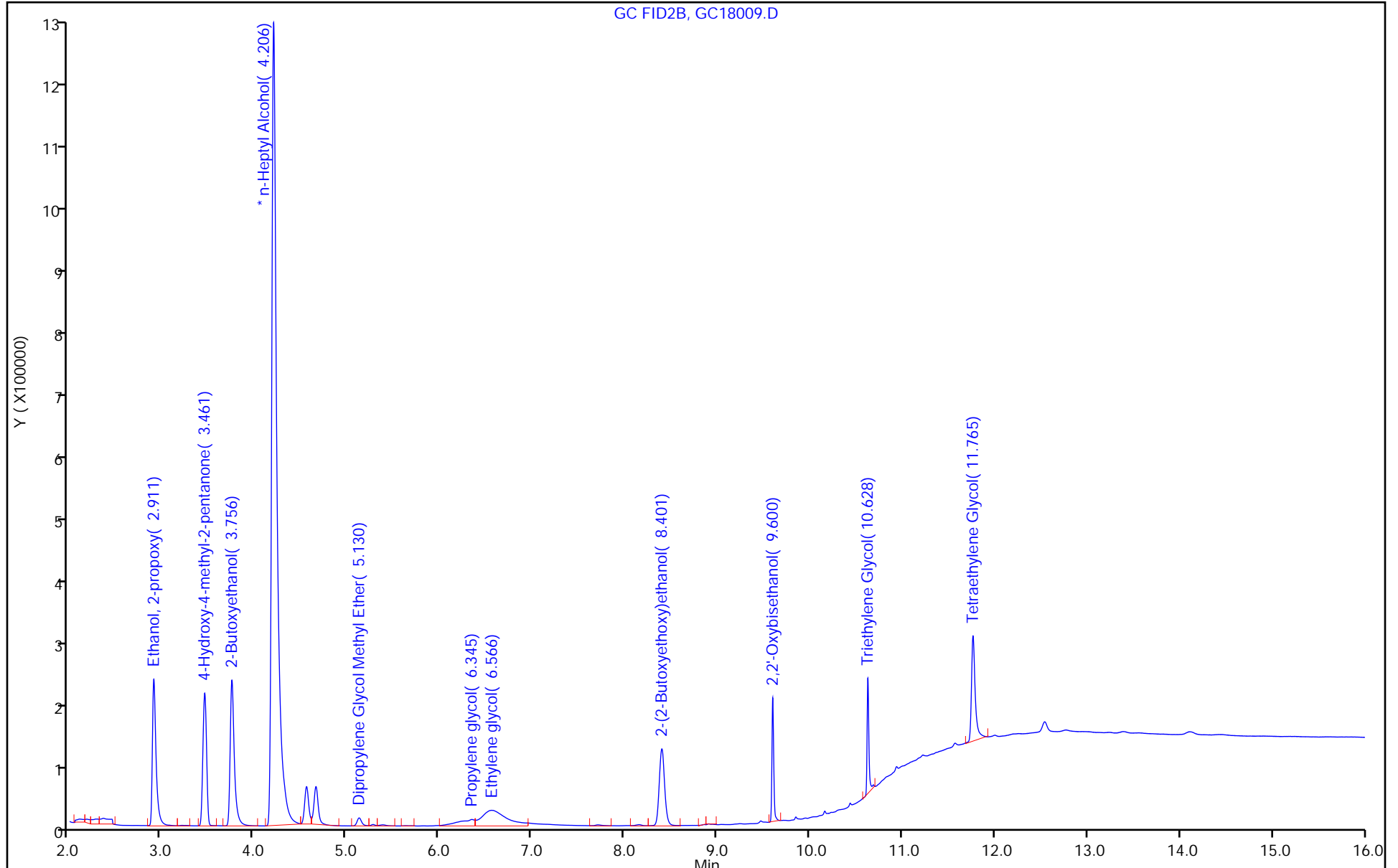
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

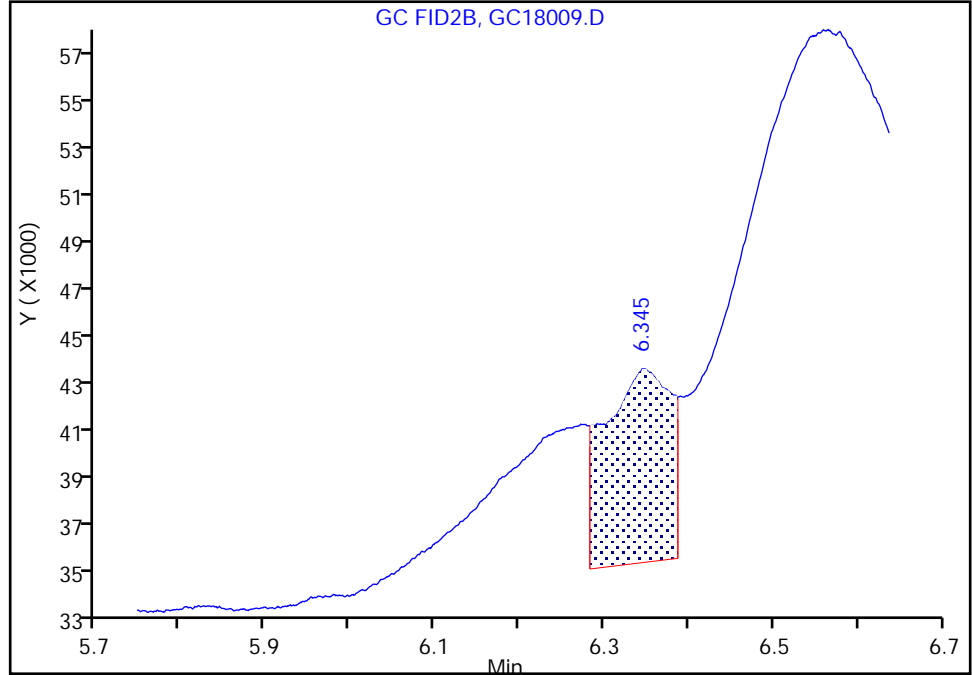
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18009.D
Injection Date: 18-Mar-2023 18:37:46 Instrument ID: CVGG2
Lims ID: ic g3
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

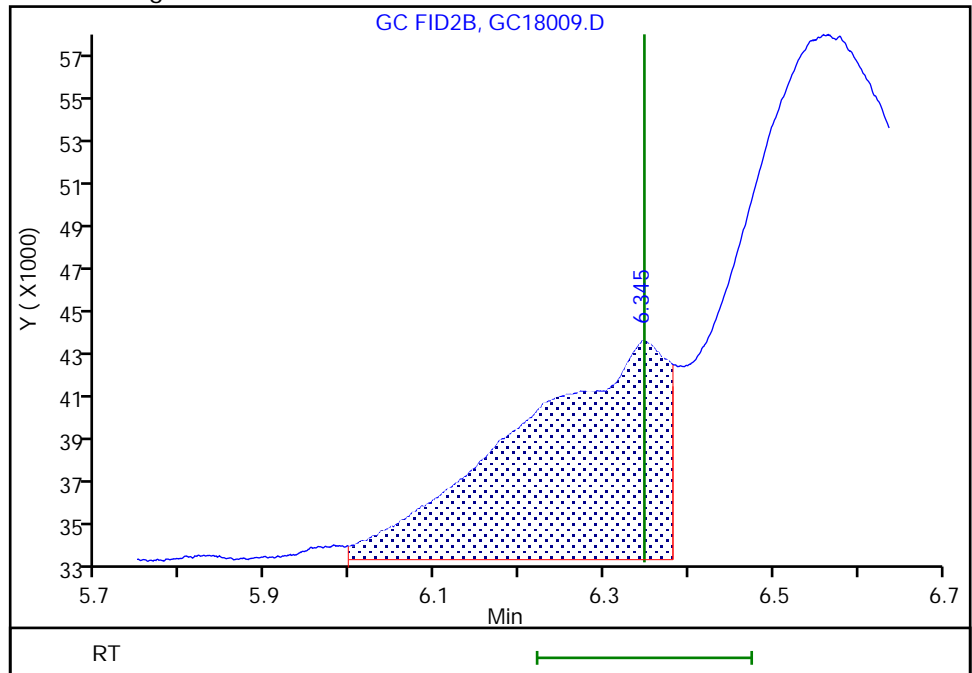
RT: 6.34
Area: 42700
Amount: 5.012160
Amount Units: ug/ml

Processing Integration Results



RT: 6.34
Area: 122580
Amount: 13.545302
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 19-Mar-2023 17:24:46
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
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Eurofins Savannah

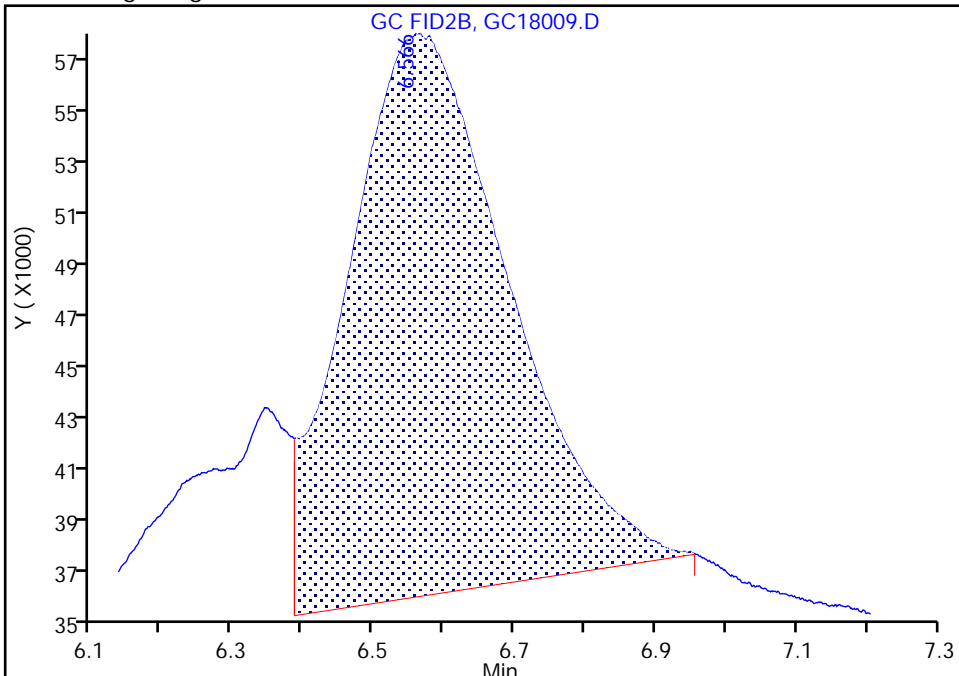
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18009.D
Injection Date: 18-Mar-2023 18:37:46 Instrument ID: CVGG2
Lims ID: ic g3
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

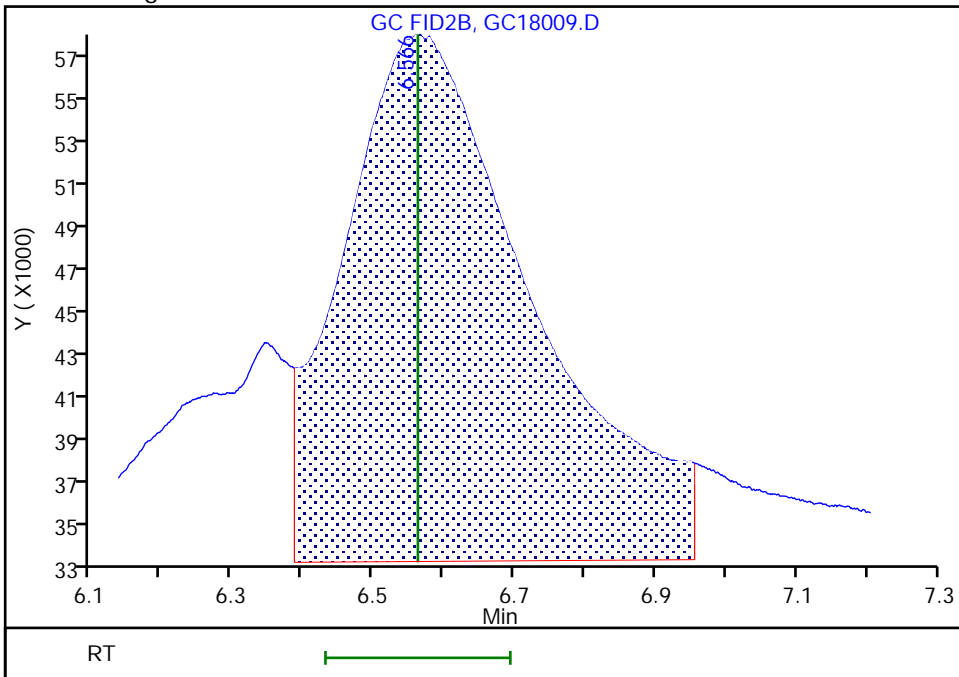
RT: 6.57
Area: 333884
Amount: 7.945997
Amount Units: ug/ml

Processing Integration Results



RT: 6.57
Area: 443908
Amount: 9.409106
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18010.D
 Lims ID: ic g2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 18-Mar-2023 19:01:08 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084498-010
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 19-Mar-2023 17:28:24 Calib Date: 18-Mar-2023 19:24:22
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1624

First Level Reviewer: SWK1 Date: 19-Mar-2023 17:25:04

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------------------------------|------------------|------------------|----------|------------------|--------------------|-------|
| 1 Ethanol, 2-propoxy | | | | | | |
| 2.915 | 2.915 | 0.000 | 393646 | 5.00 | 4.60 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 3.465 | 3.466 | -0.001 | 359475 | 5.00 | 4.58 | |
| 3 2-Butoxyethanol | | | | | | |
| 3.757 | 3.758 | -0.001 | 445899 | 5.00 | 4.59 | |
| * 4 n-Heptyl Alcohol | | | | | | |
| 4.207 | 4.207 | 0.000 | 5829521 | 50.0 | 50.0 | |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 5.135 | 5.133 | 0.002 | 26829 | 5.00 | 4.52 | |
| 6 Propylene glycol | | | | | | |
| 6.350 | 6.348 | 0.002 | 88495 | 5.00 | 8.24 | M |
| 7 Ethylene glycol | | | | | | |
| 6.560 | 6.563 | -0.003 | 291250 | 5.00 | 4.60 | M |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 8.401 | 8.403 | -0.002 | 316916 | 5.00 | 4.60 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 9.600 | 9.599 | 0.001 | 165658 | 5.00 | 4.51 | |
| 10 Triethylene Glycol | | | | | | |
| 10.629 | 10.627 | 0.002 | 134028 | 5.00 | 4.61 | |
| 11 Tetraethylene Glycol | | | | | | |
| 11.768 | 11.762 | 0.006 | 272086 | 10.0 | 9.13 | |

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

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\20230318-84498.b\GC18010.D

Injection Date: 18-Mar-2023 19:01:08

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g2

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

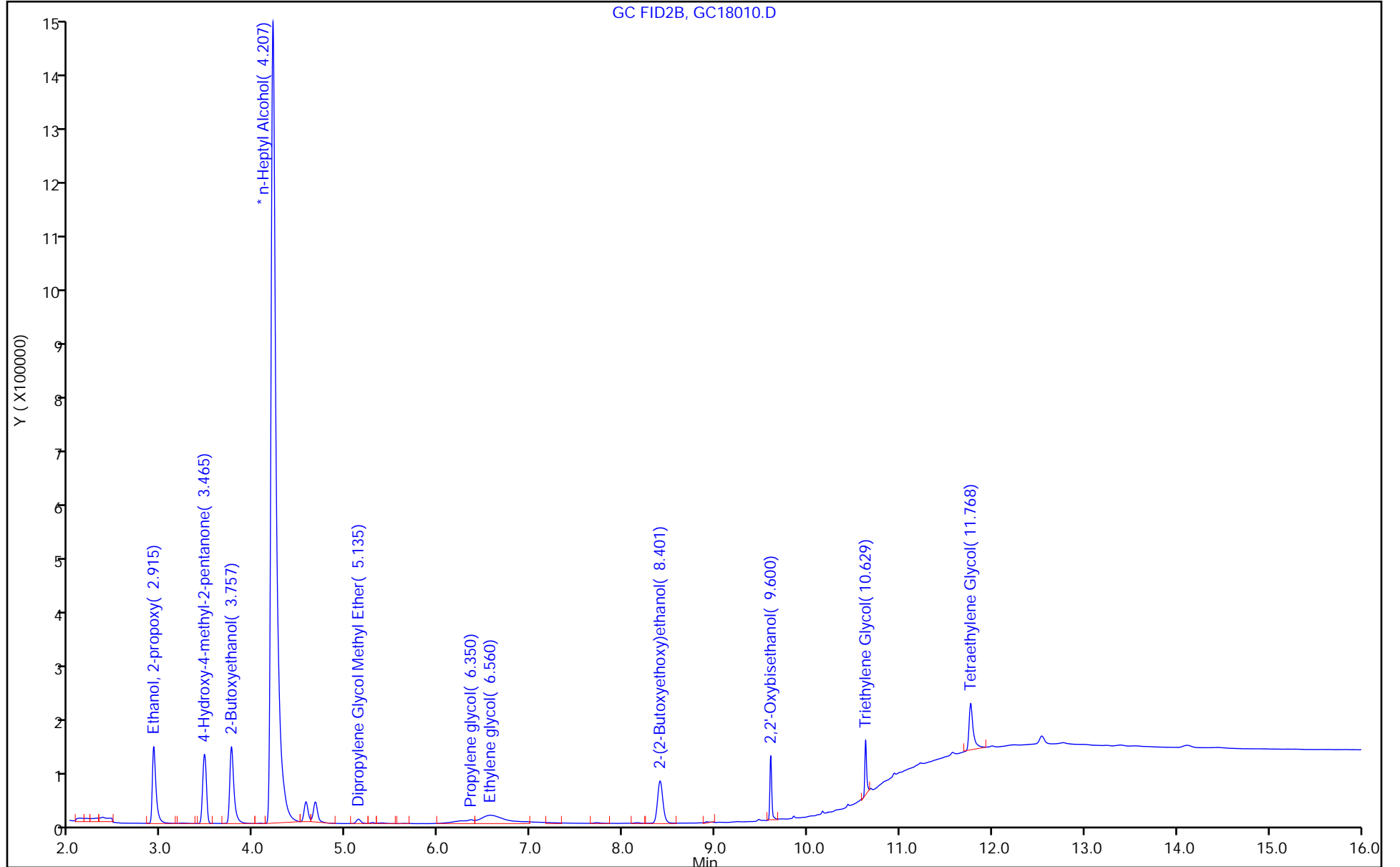
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

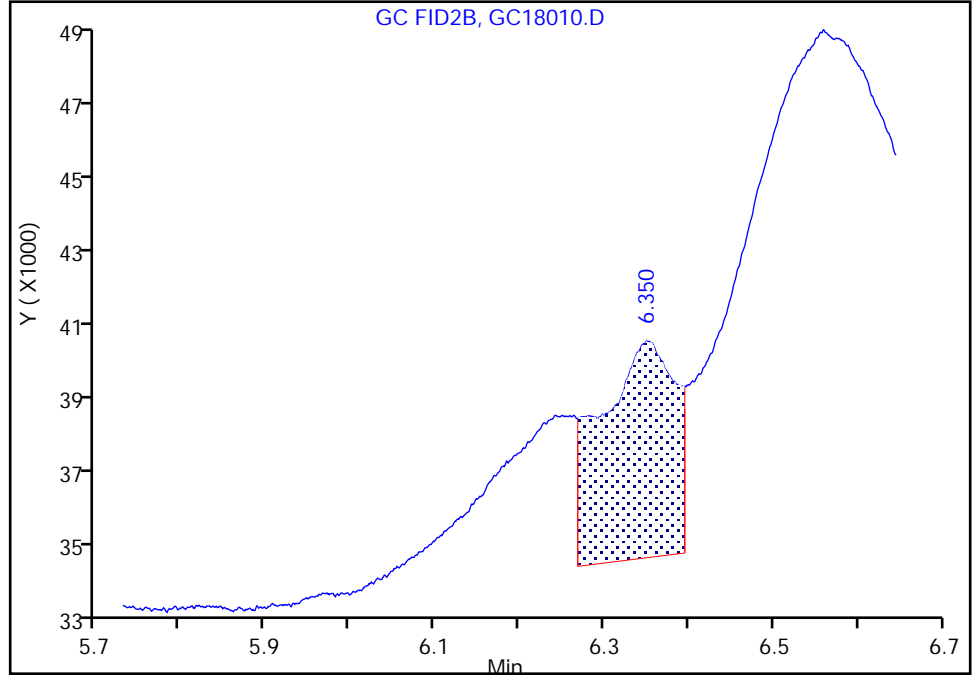
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18010.D
Injection Date: 18-Mar-2023 19:01:08 Instrument ID: CVGG2
Lims ID: ic g2
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

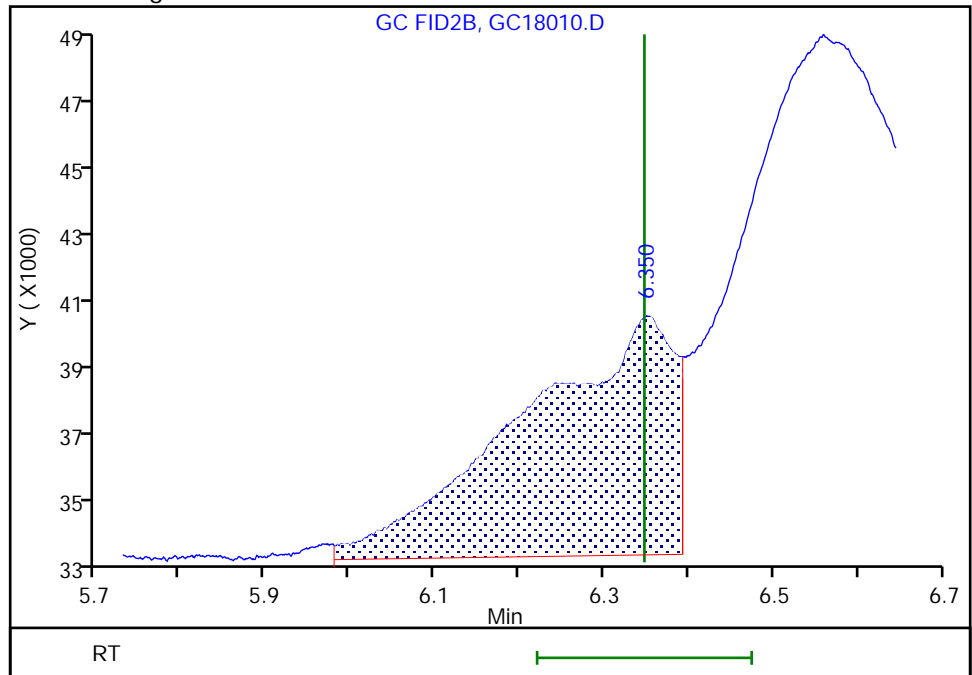
RT: 6.35
Area: 35536
Amount: 3.047913
Amount Units: ug/ml

Processing Integration Results



RT: 6.35
Area: 88495
Amount: 8.240981
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 19-Mar-2023 17:25:02
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing
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Eurofins Savannah

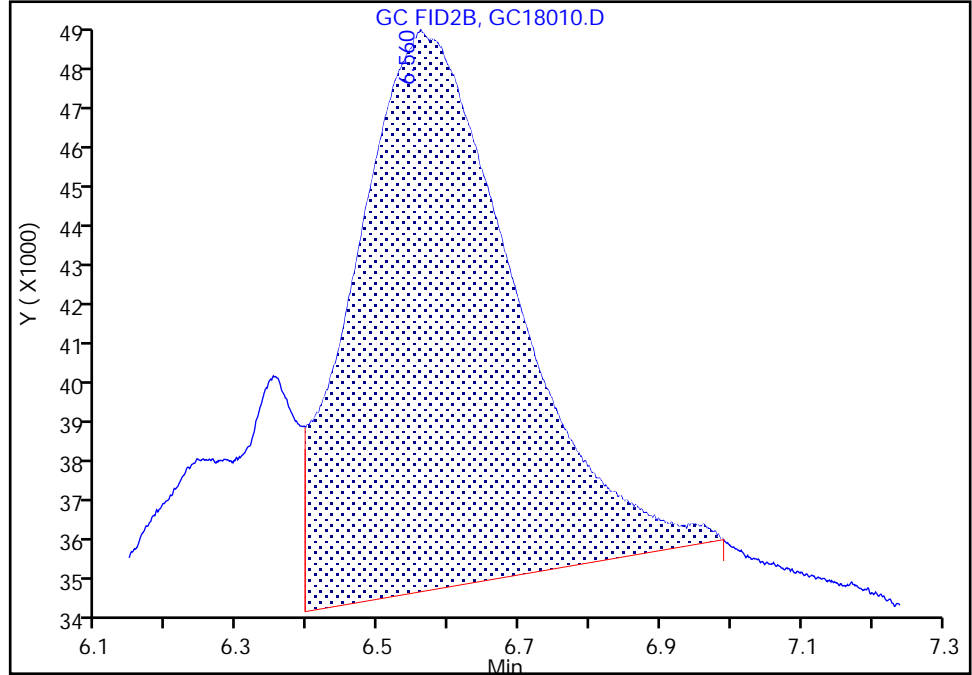
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18010.D
Injection Date: 18-Mar-2023 19:01:08 Instrument ID: CVGG2
Lims ID: ic g2
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

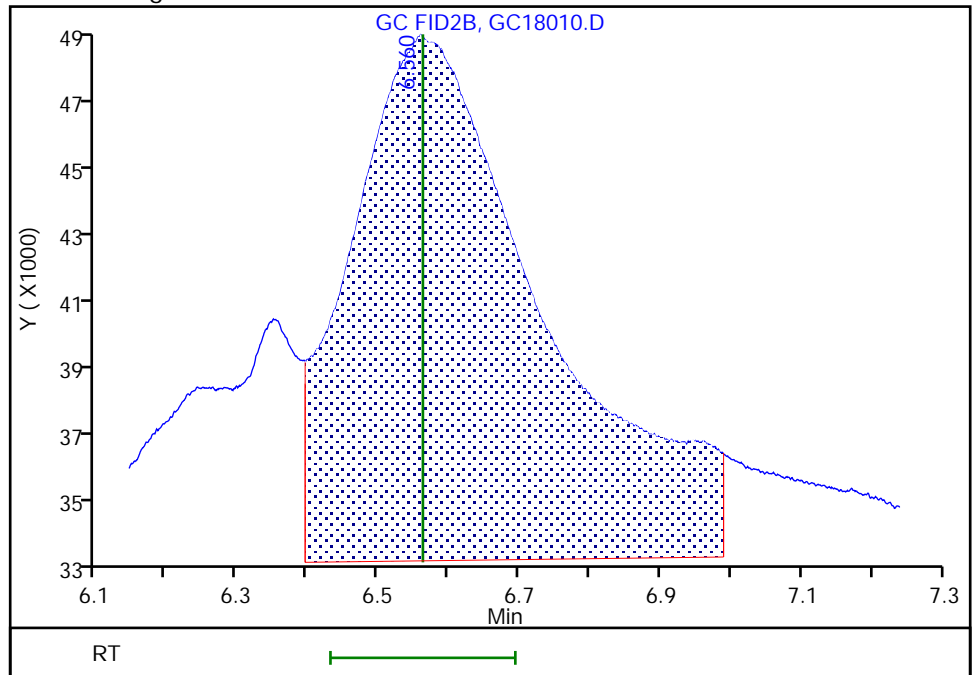
RT: 6.56
Area: 212410
Amount: 3.717153
Amount Units: ug/ml

Processing Integration Results



RT: 6.56
Area: 291250
Amount: 4.599795
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D
 Lims ID: ic g1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 18-Mar-2023 19:24:22 ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084498-011
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 19-Mar-2023 17:28:24 Calib Date: 18-Mar-2023 19:24:22
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1624

First Level Reviewer: SK9U Date: 19-Mar-2023 16:01:08

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

| | | | | | | | |
|-----------------------------------|--------|--------|--------|---------|------|------|---|
| 1 Ethanol, 2-propoxy | 2.911 | 2.915 | -0.004 | 222886 | 2.00 | 2.05 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | 3.463 | 3.466 | -0.003 | 203822 | 2.00 | 2.05 | |
| 3 2-Butoxyethanol | 3.755 | 3.758 | -0.003 | 257721 | 2.00 | 2.05 | |
| * 4 n-Heptyl Alcohol | 4.205 | 4.207 | -0.002 | 5687389 | 50.0 | 50.0 | |
| 5 Dipropylene Glycol Methyl Ether | 5.132 | 5.133 | -0.001 | 15393 | 2.00 | 2.10 | |
| 6 Propylene glycol | 6.349 | 6.348 | 0.001 | 52980 | 2.00 | 5.11 | M |
| 7 Ethylene glycol | 6.562 | 6.563 | -0.001 | 158828 | 2.00 | 2.07 | M |
| 8 2-(2-Butoxyethoxy)ethanol | 8.401 | 8.403 | -0.002 | 183850 | 2.00 | 2.06 | |
| 9 2,2'-Oxybisethanol | 9.601 | 9.599 | 0.002 | 96509 | 2.00 | 2.08 | |
| 10 Triethylene Glycol | 10.629 | 10.627 | 0.002 | 67193 | 2.00 | 2.37 | |
| 11 Tetraethylene Glycol | 11.770 | 11.762 | 0.008 | 149265 | 4.00 | 5.14 | |

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

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\20230318-84498.b\GC18011.D

Injection Date: 18-Mar-2023 19:24:22

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g1

Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 ul

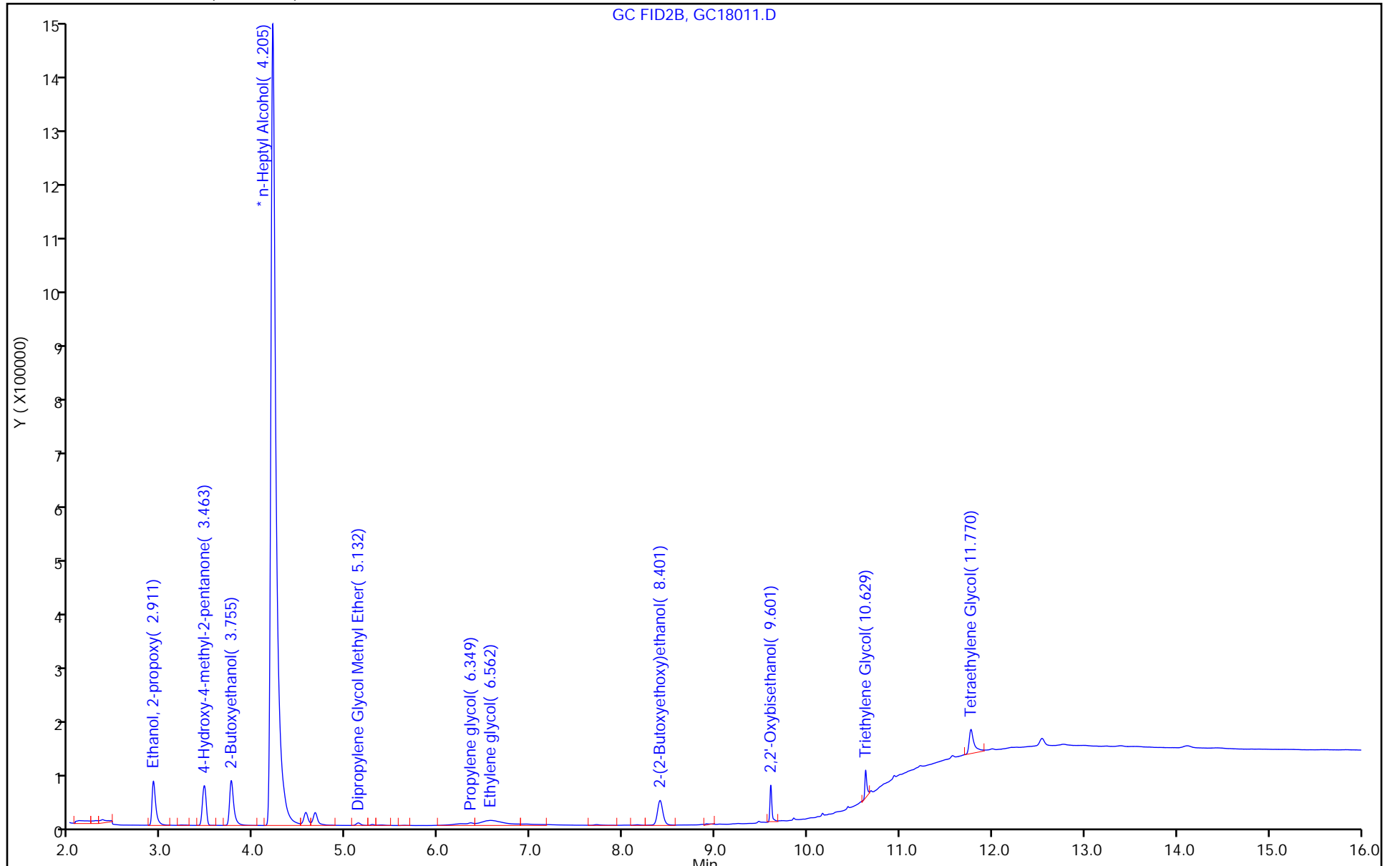
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



GC FID2B, GC18011.D

Eurofins Savannah

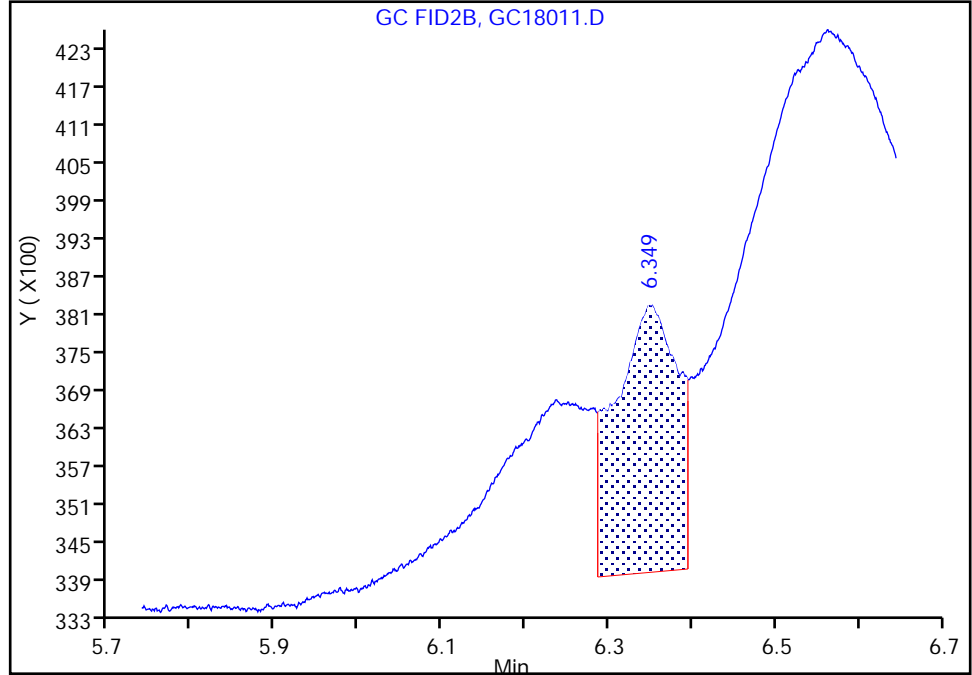
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D
Injection Date: 18-Mar-2023 19:24:22 Instrument ID: CVGG2
Lims ID: ic g1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

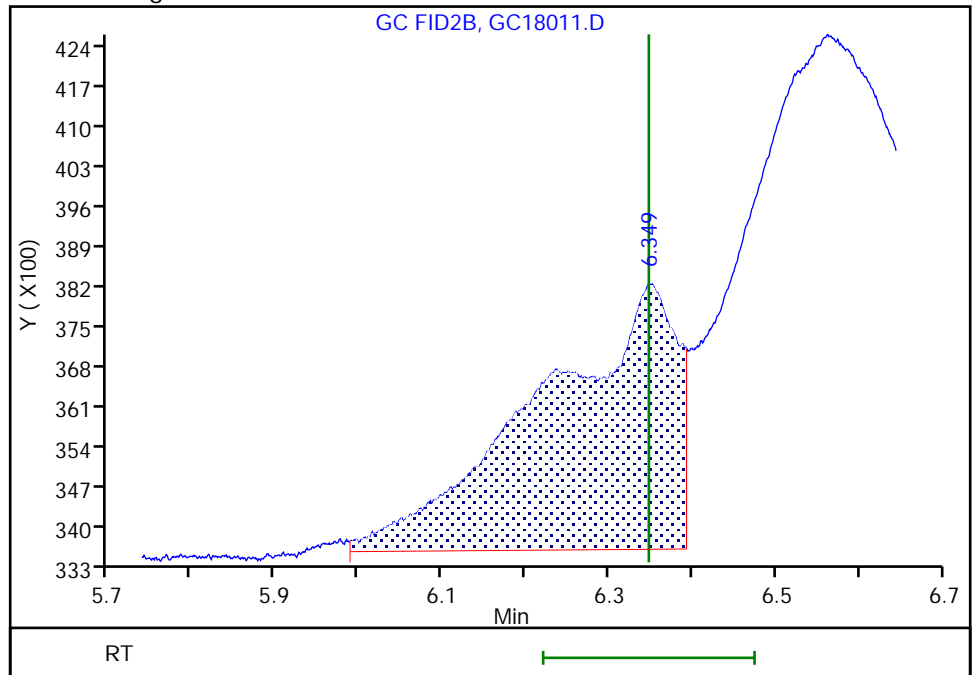
RT: 6.35
Area: 21827
Amount: 1.698456
Amount Units: ug/ml

Processing Integration Results



RT: 6.35
Area: 52980
Amount: 5.108558
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 19-Mar-2023 17:25:19
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing
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Eurofins Savannah

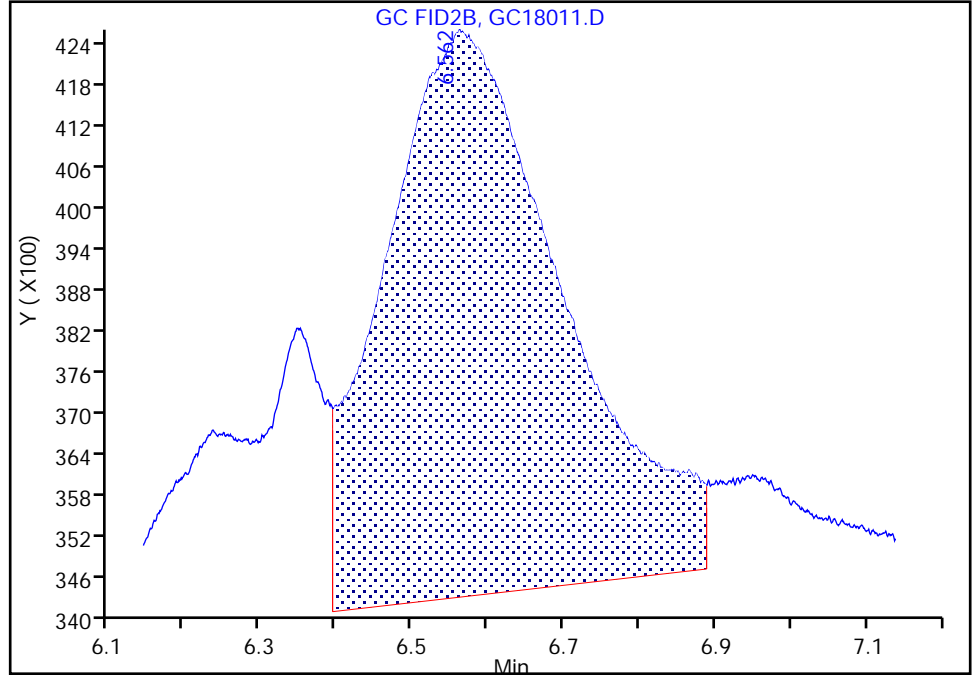
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D
Injection Date: 18-Mar-2023 19:24:22 Instrument ID: CVGG2
Lims ID: ic g1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

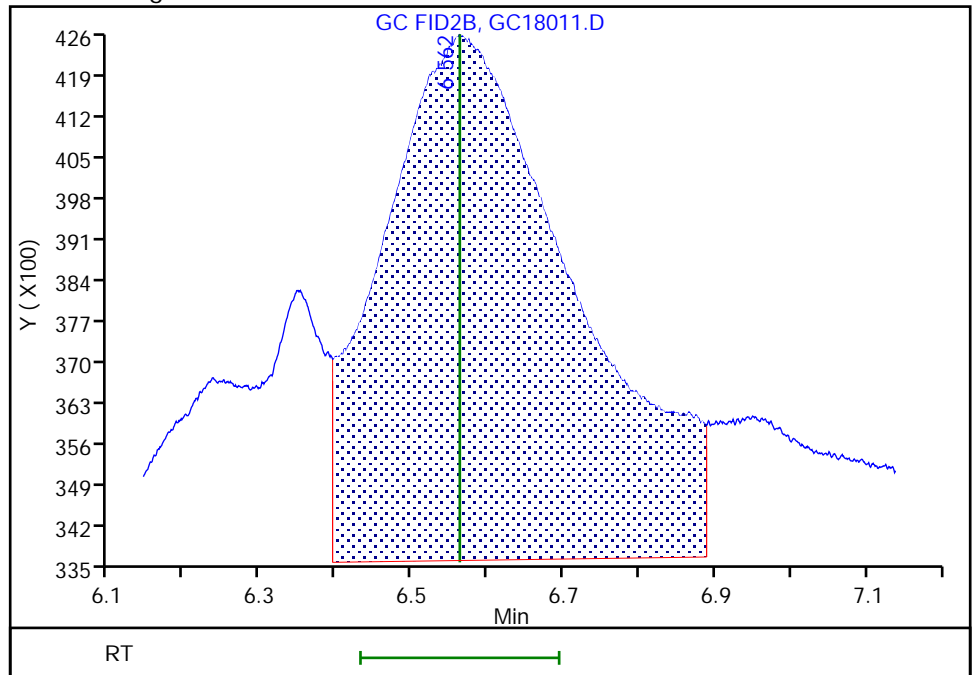
RT: 6.56
Area: 136517
Amount: 1.835416
Amount Units: ug/ml

Processing Integration Results



RT: 6.56
Area: 158828
Amount: 2.073138
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 19-Mar-2023 17:25:13
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Calibration

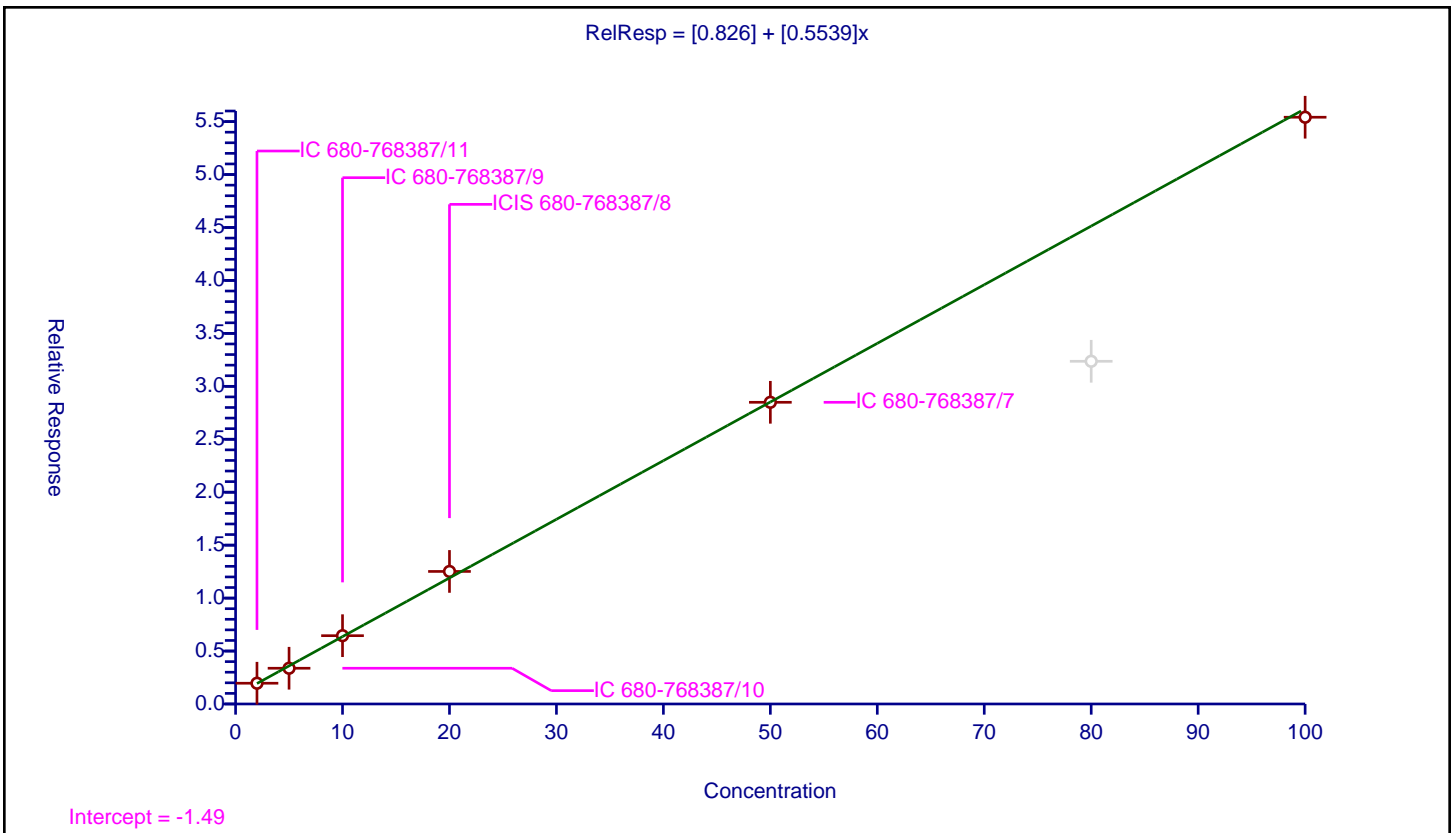
/ Ethanol, 2-propoxy

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

| Curve Coefficients | |
|--------------------|--------|
| Intercept: | 0.826 |
| Slope: | 0.5539 |

| Error Coefficients | |
|--|---------|
| Standard Error: | 3130000 |
| Relative Standard Error: | 5.1 |
| Correlation Coefficient: | 0.979 |
| Coefficient of Determination (Adjusted): | 0.997 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-768387/11 | 2.0 | 1.959476 | 50.0 | 5687389.0 | 0.979738 | Y |
| 2 | IC 680-768387/10 | 5.0 | 3.376315 | 50.0 | 5829521.0 | 0.675263 | Y |
| 3 | IC 680-768387/9 | 10.0 | 6.451327 | 50.0 | 4830177.0 | 0.645133 | Y |
| 4 | ICIS 680-768387/8 | 20.0 | 12.518354 | 50.0 | 5093613.0 | 0.625918 | Y |
| 5 | IC 680-768387/7 | 50.0 | 28.490656 | 50.0 | 3786538.0 | 0.569813 | Y |
| 6 | IC 680-768387/6 | 80.0 | 32.363785 | 50.0 | 4412500.0 | 0.404547 | N |
| 7 | IC 680-768387/5 | 100.0 | 55.412325 | 50.0 | 5135926.0 | 0.554123 | Y |



Calibration

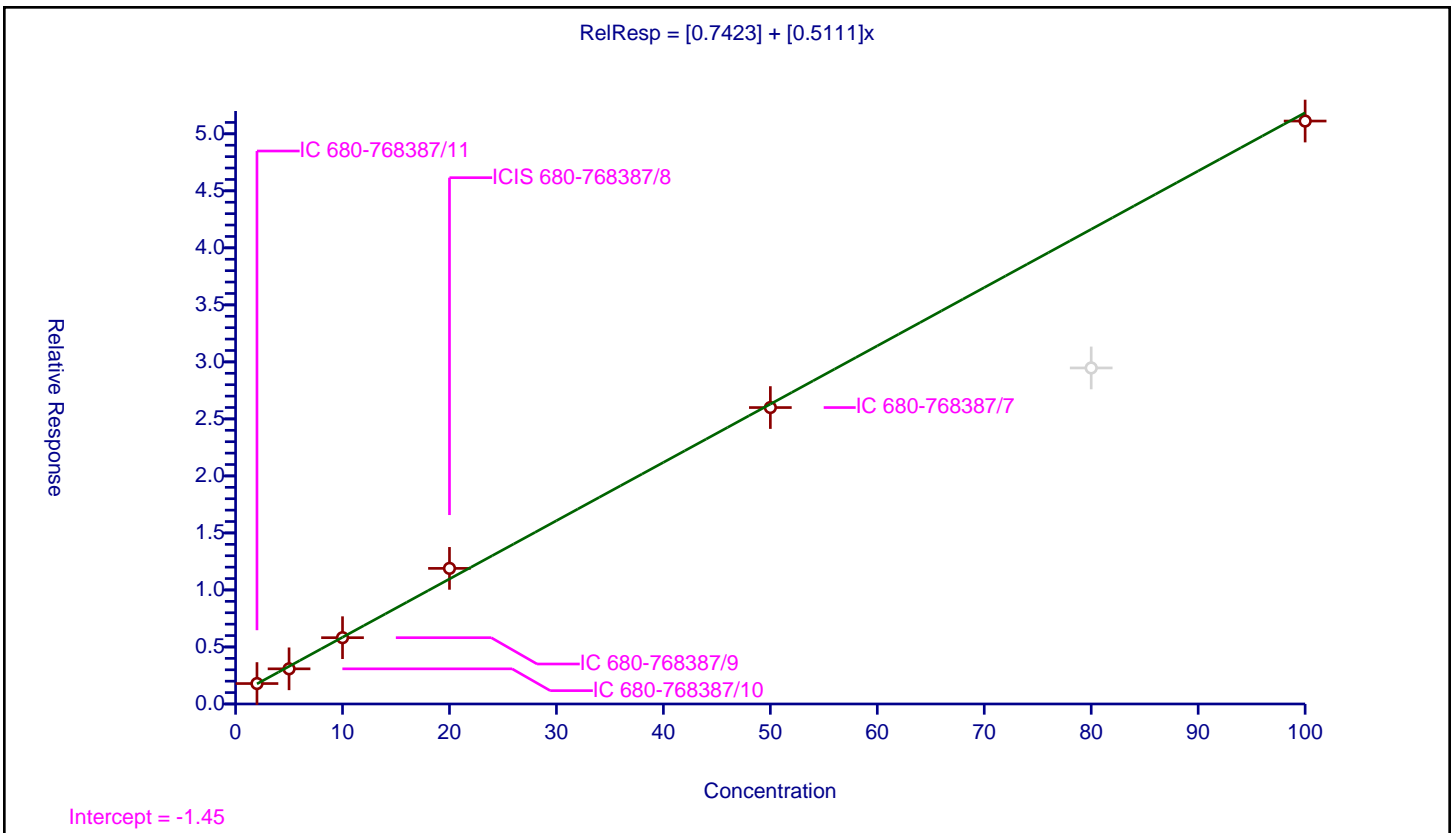
/ 4-Hydroxy-4-methyl-2-pentanone

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

| Curve Coefficients | |
|--------------------|--------|
| Intercept: | 0.7423 |
| Slope: | 0.5111 |

| Error Coefficients | |
|--|---------|
| Standard Error: | 2890000 |
| Relative Standard Error: | 6.4 |
| Correlation Coefficient: | 0.978 |
| Coefficient of Determination (Adjusted): | 0.995 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-768387/11 | 2.0 | 1.791877 | 50.0 | 5687389.0 | 0.895938 | Y |
| 2 | IC 680-768387/10 | 5.0 | 3.083229 | 50.0 | 5829521.0 | 0.616646 | Y |
| 3 | IC 680-768387/9 | 10.0 | 5.813824 | 50.0 | 4830177.0 | 0.581382 | Y |
| 4 | ICIS 680-768387/8 | 20.0 | 11.893513 | 50.0 | 5093613.0 | 0.594676 | Y |
| 5 | IC 680-768387/7 | 50.0 | 25.996926 | 50.0 | 3786538.0 | 0.519939 | Y |
| 6 | IC 680-768387/6 | 80.0 | 29.46749 | 50.0 | 4412500.0 | 0.368344 | N |
| 7 | IC 680-768387/5 | 100.0 | 51.120285 | 50.0 | 5135926.0 | 0.511203 | Y |



Calibration

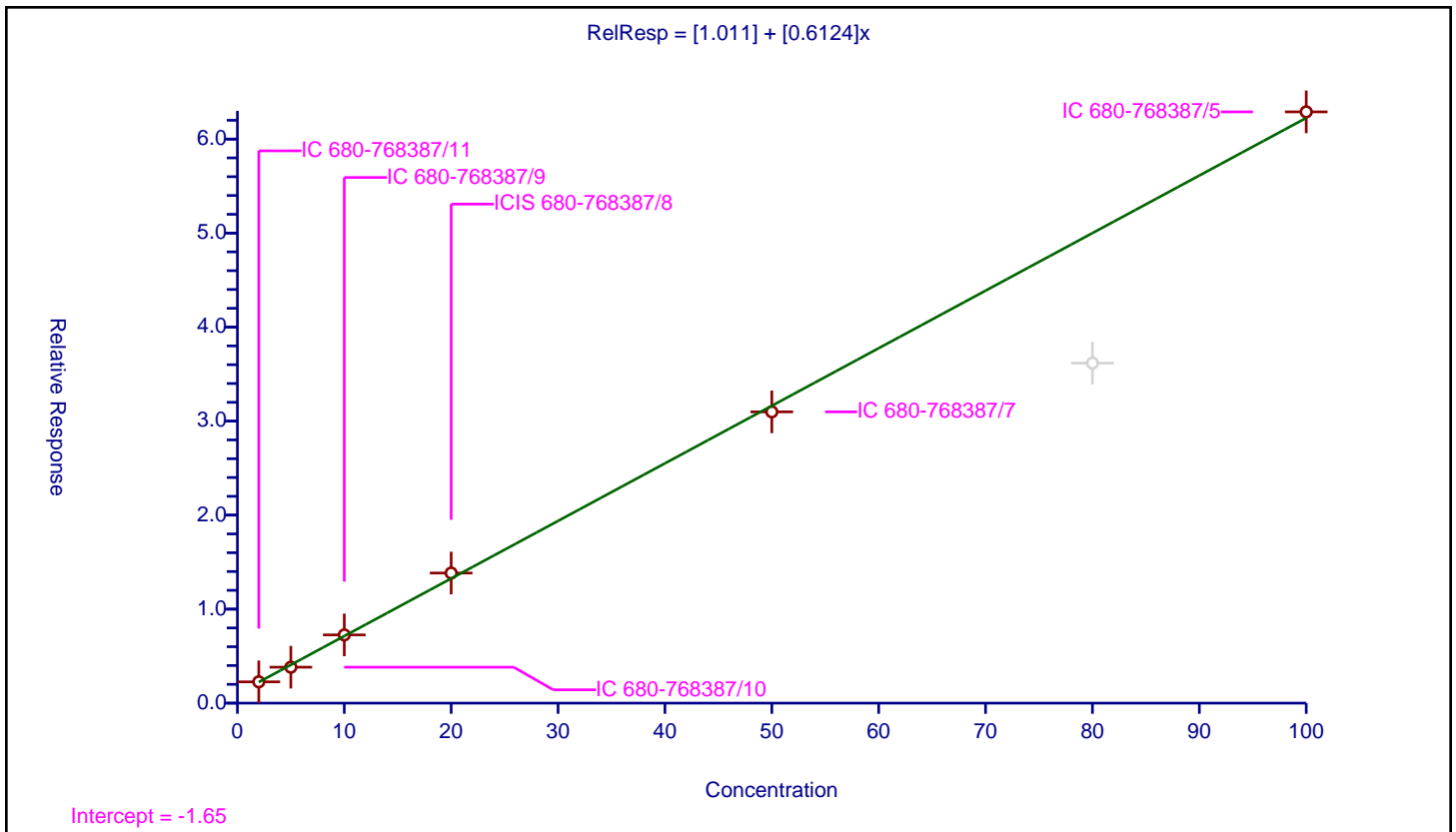
/ 2-Butoxyethanol

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

| Curve Coefficients | |
|--------------------|--------|
| Intercept: | 1.011 |
| Slope: | 0.6124 |

| Error Coefficients | |
|--|---------|
| Standard Error: | 3540000 |
| Relative Standard Error: | 5.1 |
| Correlation Coefficient: | 0.975 |
| Coefficient of Determination (Adjusted): | 0.997 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-768387/11 | 2.0 | 2.265723 | 50.0 | 5687389.0 | 1.132862 | Y |
| 2 | IC 680-768387/10 | 5.0 | 3.824491 | 50.0 | 5829521.0 | 0.764898 | Y |
| 3 | IC 680-768387/9 | 10.0 | 7.25696 | 50.0 | 4830177.0 | 0.725696 | Y |
| 4 | ICIS 680-768387/8 | 20.0 | 13.838291 | 50.0 | 5093613.0 | 0.691915 | Y |
| 5 | IC 680-768387/7 | 50.0 | 30.983672 | 50.0 | 3786538.0 | 0.619673 | Y |
| 6 | IC 680-768387/6 | 80.0 | 36.169303 | 50.0 | 4412500.0 | 0.452116 | N |
| 7 | IC 680-768387/5 | 100.0 | 62.894919 | 50.0 | 5135926.0 | 0.628949 | Y |



Calibration

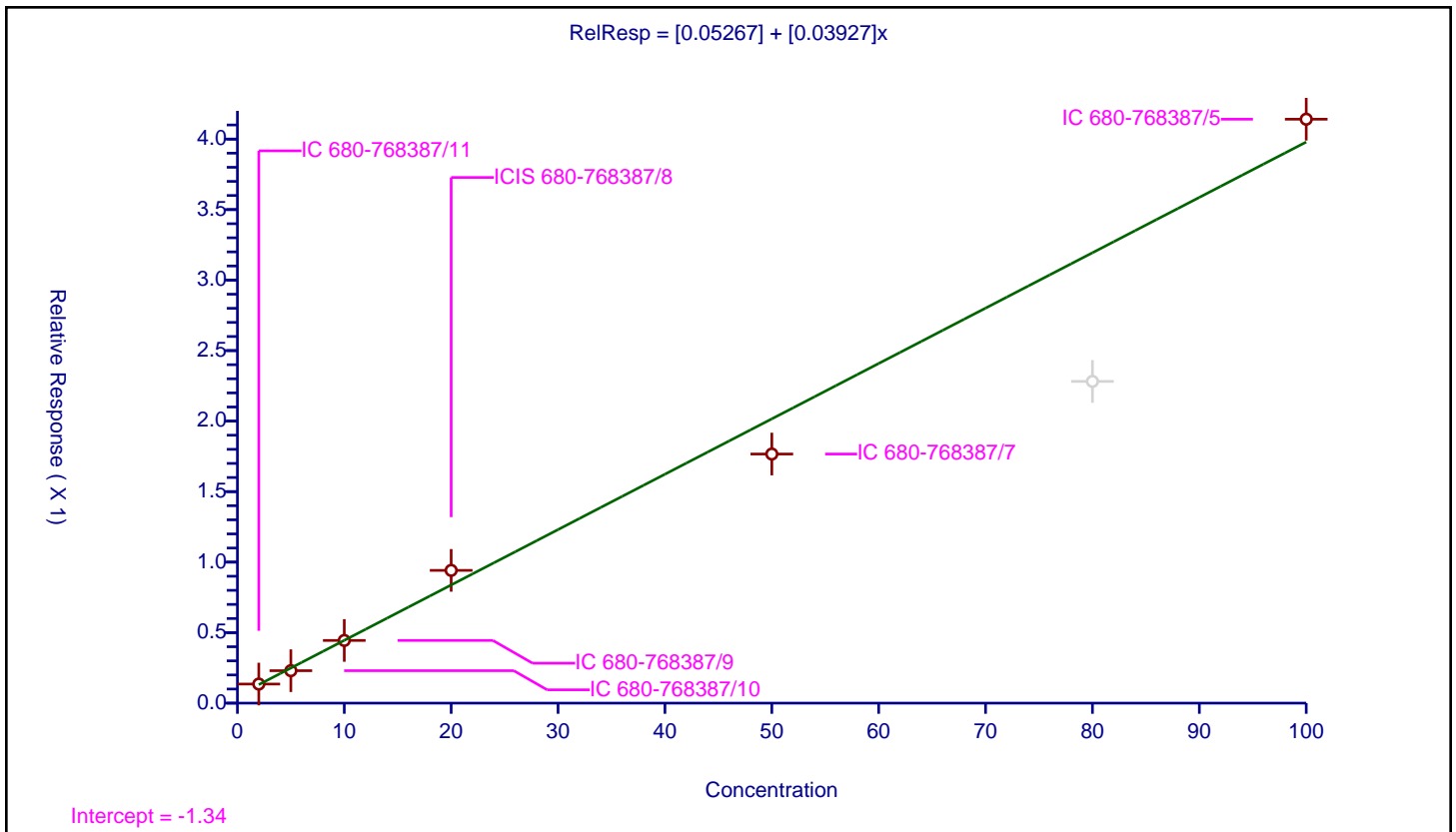
/ Dipropylene Glycol Methyl Ether

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

| Curve Coefficients | |
|--------------------|---------|
| Intercept: | 0.05267 |
| Slope: | 0.03927 |

| Error Coefficients | |
|--|--------|
| Standard Error: | 230000 |
| Relative Standard Error: | 10.9 |
| Correlation Coefficient: | 0.955 |
| Coefficient of Determination (Adjusted): | 0.991 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-768387/11 | 2.0 | 0.135326 | 50.0 | 5687389.0 | 0.067663 | Y |
| 2 | IC 680-768387/10 | 5.0 | 0.230113 | 50.0 | 5829521.0 | 0.046023 | Y |
| 3 | IC 680-768387/9 | 10.0 | 0.444497 | 50.0 | 4830177.0 | 0.04445 | Y |
| 4 | ICIS 680-768387/8 | 20.0 | 0.941414 | 50.0 | 5093613.0 | 0.047071 | Y |
| 5 | IC 680-768387/7 | 50.0 | 1.766495 | 50.0 | 3786538.0 | 0.03533 | Y |
| 6 | IC 680-768387/6 | 80.0 | 2.281609 | 50.0 | 4412500.0 | 0.02852 | N |
| 7 | IC 680-768387/5 | 100.0 | 4.140821 | 50.0 | 5135926.0 | 0.041408 | Y |



Calibration

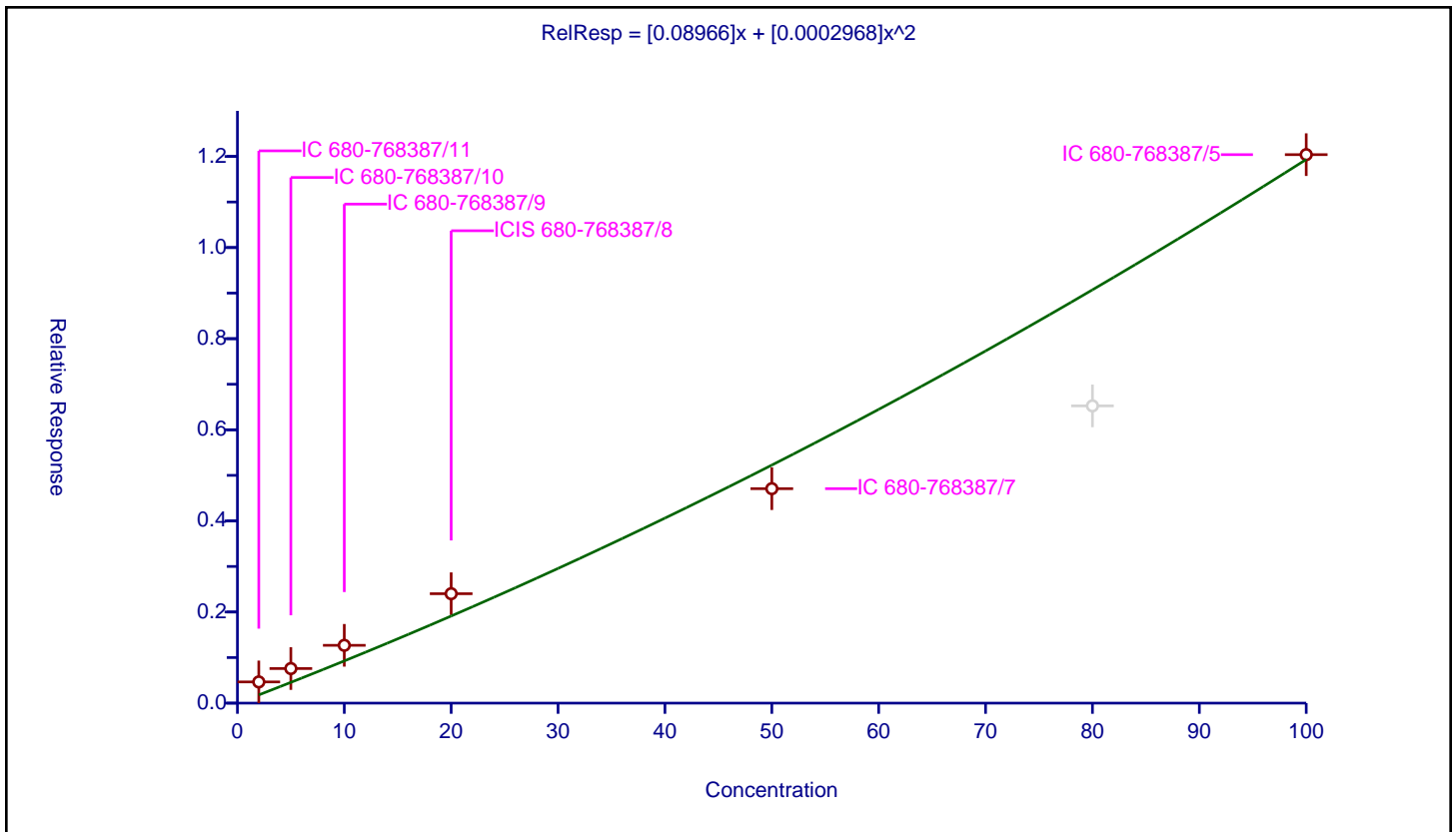
/ Propylene glycol

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

| Curve Coefficients | |
|--------------------|-----------|
| Intercept: | 0 |
| Slope: | 0.08966 |
| Second Order: | 0.0002968 |

| Error Coefficients | |
|--|--------|
| Standard Error: | 660000 |
| Relative Standard Error: | 87.0 |
| Correlation Coefficient: | 0.965 |
| Coefficient of Determination (Adjusted): | 0.992 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-768387/11 | 2.0 | 0.465767 | 50.0 | 5687389.0 | 0.232884 | Y |
| 2 | IC 680-768387/10 | 5.0 | 0.759025 | 50.0 | 5829521.0 | 0.151805 | Y |
| 3 | IC 680-768387/9 | 10.0 | 1.268898 | 50.0 | 4830177.0 | 0.12689 | Y |
| 4 | ICIS 680-768387/8 | 20.0 | 2.401998 | 50.0 | 5093613.0 | 0.1201 | Y |
| 5 | IC 680-768387/7 | 50.0 | 4.707889 | 50.0 | 3786538.0 | 0.094158 | Y |
| 6 | IC 680-768387/6 | 80.0 | 6.524952 | 50.0 | 4412500.0 | 0.081562 | N |
| 7 | IC 680-768387/5 | 100.0 | 12.039231 | 50.0 | 5135926.0 | 0.120392 | Y |



Calibration

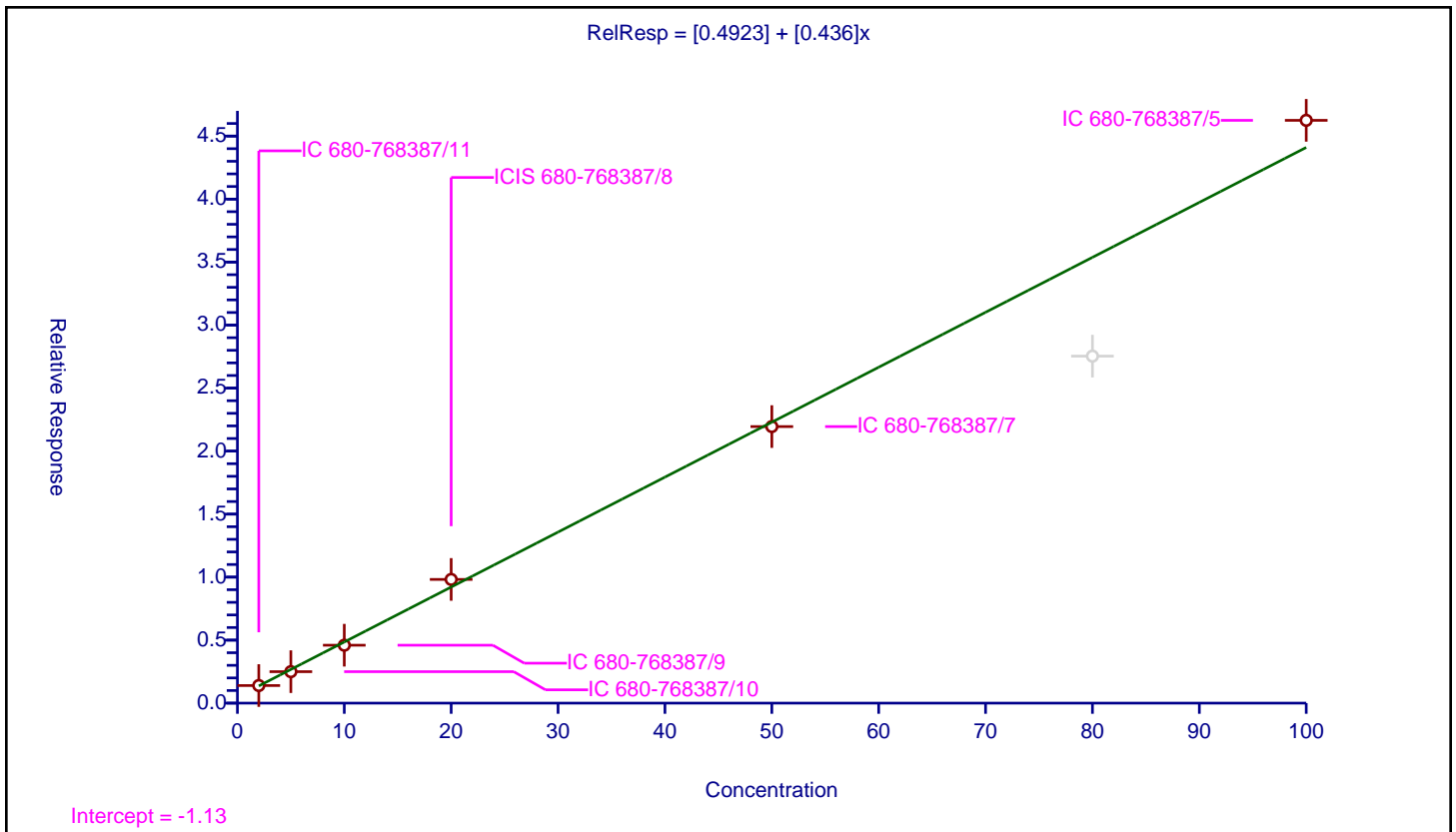
/ Ethylene glycol

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

| Curve Coefficients | |
|--------------------|--------|
| Intercept: | 0.4923 |
| Slope: | 0.436 |

| Error Coefficients | |
|--|---------|
| Standard Error: | 2580000 |
| Relative Standard Error: | 6.8 |
| Correlation Coefficient: | 0.972 |
| Coefficient of Determination (Adjusted): | 0.995 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-768387/11 | 2.0 | 1.396317 | 50.0 | 5687389.0 | 0.698159 | Y |
| 2 | IC 680-768387/10 | 5.0 | 2.498061 | 50.0 | 5829521.0 | 0.499612 | Y |
| 3 | IC 680-768387/9 | 10.0 | 4.595153 | 50.0 | 4830177.0 | 0.459515 | Y |
| 4 | ICIS 680-768387/8 | 20.0 | 9.816529 | 50.0 | 5093613.0 | 0.490826 | Y |
| 5 | IC 680-768387/7 | 50.0 | 21.9463 | 50.0 | 3786538.0 | 0.438926 | Y |
| 6 | IC 680-768387/6 | 80.0 | 27.536544 | 50.0 | 4412500.0 | 0.344207 | N |
| 7 | IC 680-768387/5 | 100.0 | 46.249995 | 50.0 | 5135926.0 | 0.4625 | Y |



Calibration

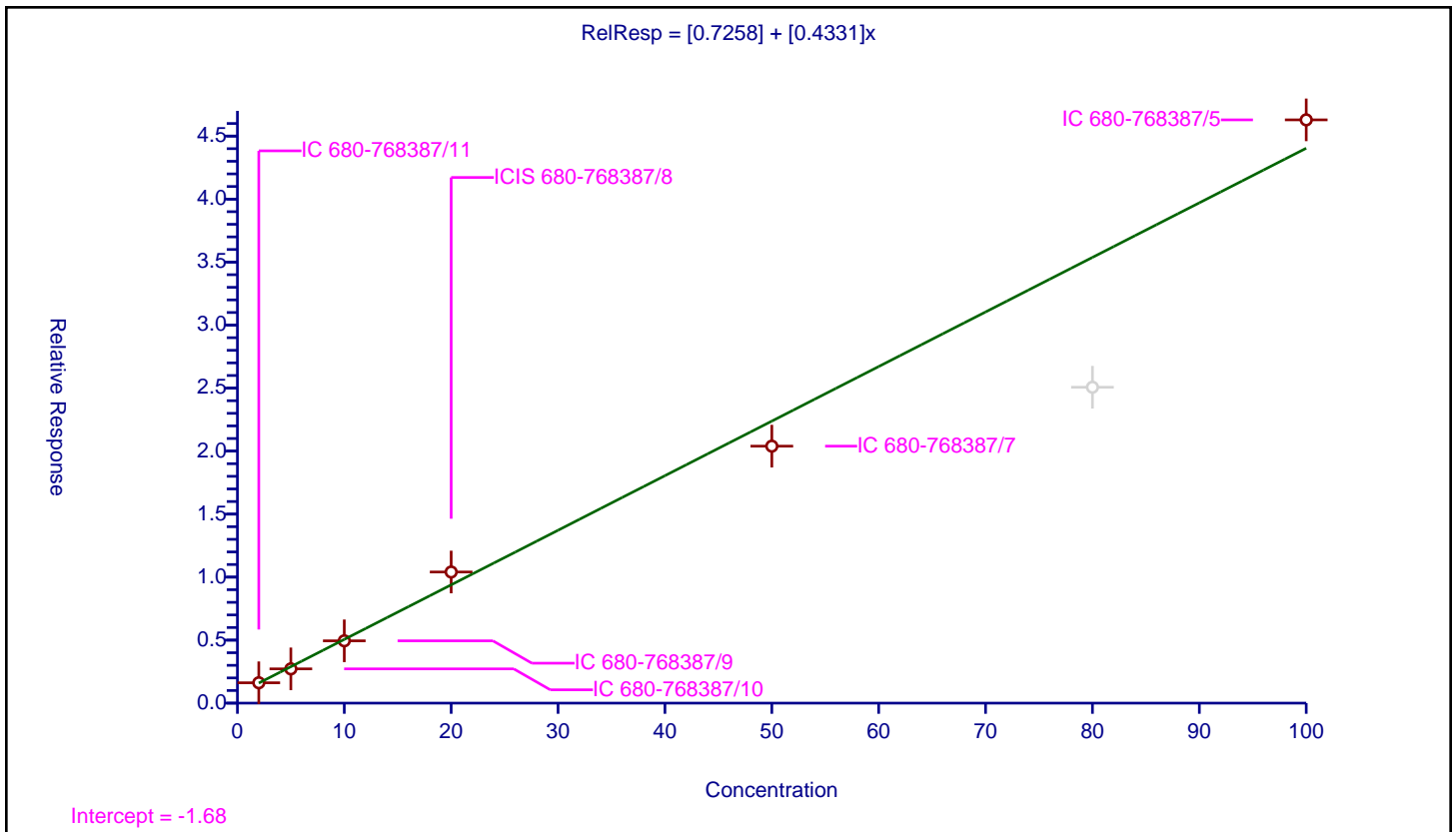
/ 2-(2-Butoxyethoxy)ethanol

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

| Curve Coefficients | |
|--------------------|--------|
| Intercept: | 0.7258 |
| Slope: | 0.4331 |

| Error Coefficients | |
|--|---------|
| Standard Error: | 2570000 |
| Relative Standard Error: | 9.1 |
| Correlation Coefficient: | 0.959 |
| Coefficient of Determination (Adjusted): | 0.991 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-768387/11 | 2.0 | 1.616295 | 50.0 | 5687389.0 | 0.808148 | Y |
| 2 | IC 680-768387/10 | 5.0 | 2.718199 | 50.0 | 5829521.0 | 0.54364 | Y |
| 3 | IC 680-768387/9 | 10.0 | 4.944291 | 50.0 | 4830177.0 | 0.494429 | Y |
| 4 | ICIS 680-768387/8 | 20.0 | 10.406798 | 50.0 | 5093613.0 | 0.52034 | Y |
| 5 | IC 680-768387/7 | 50.0 | 20.393299 | 50.0 | 3786538.0 | 0.407866 | Y |
| 6 | IC 680-768387/6 | 80.0 | 25.068034 | 50.0 | 4412500.0 | 0.31335 | N |
| 7 | IC 680-768387/5 | 100.0 | 46.288683 | 50.0 | 5135926.0 | 0.462887 | Y |



Calibration

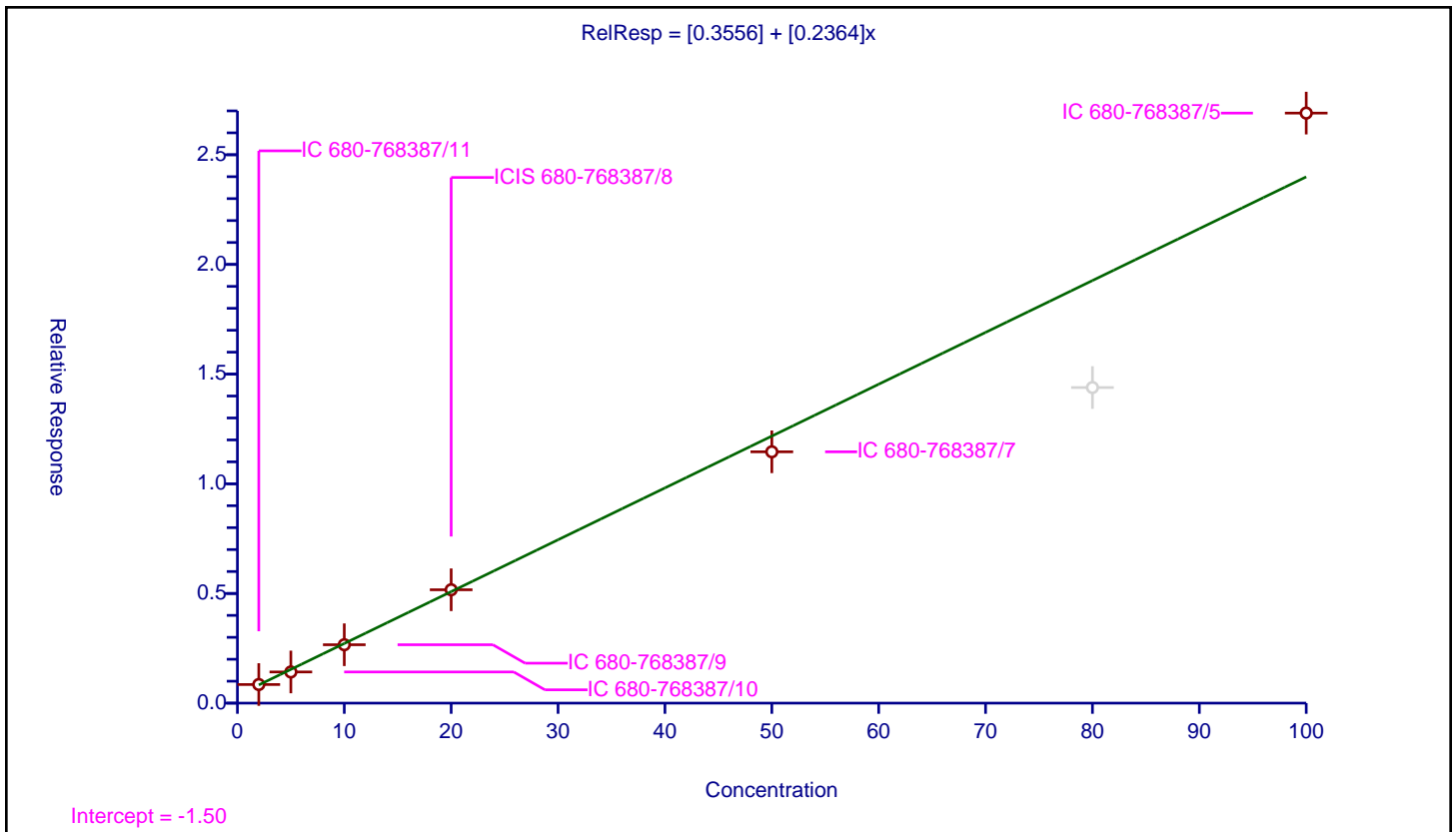
/ 2,2'-Oxybisethanol

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

| Curve Coefficients | |
|--------------------|--------|
| Intercept: | 0.3556 |
| Slope: | 0.2364 |

| Error Coefficients | |
|--|---------|
| Standard Error: | 1480000 |
| Relative Standard Error: | 8.8 |
| Correlation Coefficient: | 0.959 |
| Coefficient of Determination (Adjusted): | 0.991 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-768387/11 | 2.0 | 0.848447 | 50.0 | 5687389.0 | 0.424224 | Y |
| 2 | IC 680-768387/10 | 5.0 | 1.420854 | 50.0 | 5829521.0 | 0.284171 | Y |
| 3 | IC 680-768387/9 | 10.0 | 2.662097 | 50.0 | 4830177.0 | 0.26621 | Y |
| 4 | ICIS 680-768387/8 | 20.0 | 5.168502 | 50.0 | 5093613.0 | 0.258425 | Y |
| 5 | IC 680-768387/7 | 50.0 | 11.458277 | 50.0 | 3786538.0 | 0.229166 | Y |
| 6 | IC 680-768387/6 | 80.0 | 14.388465 | 50.0 | 4412500.0 | 0.179856 | N |
| 7 | IC 680-768387/5 | 100.0 | 26.89918 | 50.0 | 5135926.0 | 0.268992 | Y |



Calibration

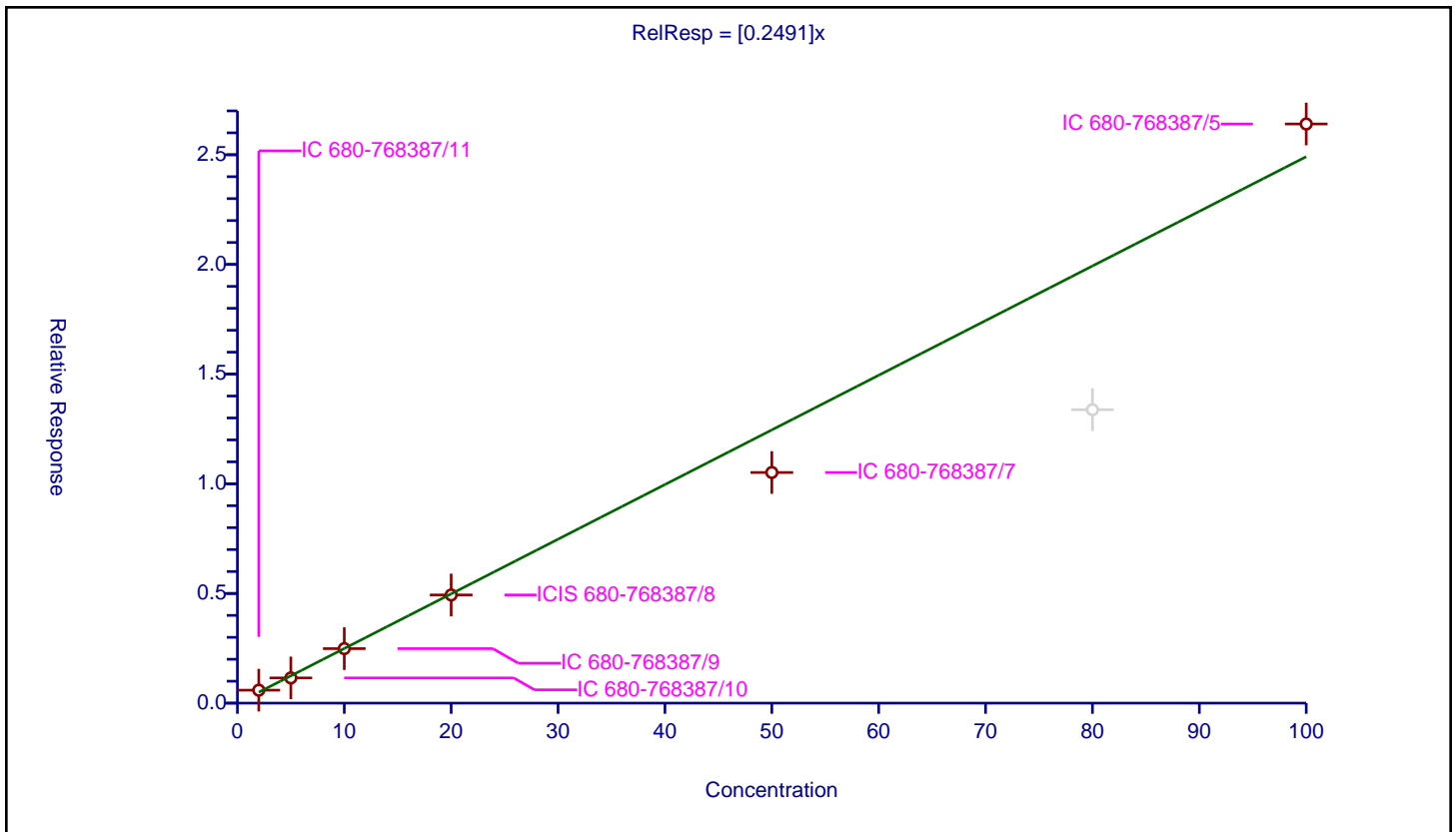
/ Triethylene Glycol

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

| Curve Coefficients | |
|--------------------|--------|
| Intercept: | 0 |
| Slope: | 0.2491 |

| Error Coefficients | |
|--|---------|
| Standard Error: | 1290000 |
| Relative Standard Error: | 11.7 |
| Correlation Coefficient: | 0.952 |
| Coefficient of Determination (Adjusted): | 0.978 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-768387/11 | 2.0 | 0.590719 | 50.0 | 5687389.0 | 0.29536 | Y |
| 2 | IC 680-768387/10 | 5.0 | 1.149563 | 50.0 | 5829521.0 | 0.229913 | Y |
| 3 | IC 680-768387/9 | 10.0 | 2.485023 | 50.0 | 4830177.0 | 0.248502 | Y |
| 4 | ICIS 680-768387/8 | 20.0 | 4.931971 | 50.0 | 5093613.0 | 0.246599 | Y |
| 5 | IC 680-768387/7 | 50.0 | 10.515027 | 50.0 | 3786538.0 | 0.210301 | Y |
| 6 | IC 680-768387/6 | 80.0 | 13.378142 | 50.0 | 4412500.0 | 0.167227 | N |
| 7 | IC 680-768387/5 | 100.0 | 26.402006 | 50.0 | 5135926.0 | 0.26402 | Y |



Calibration

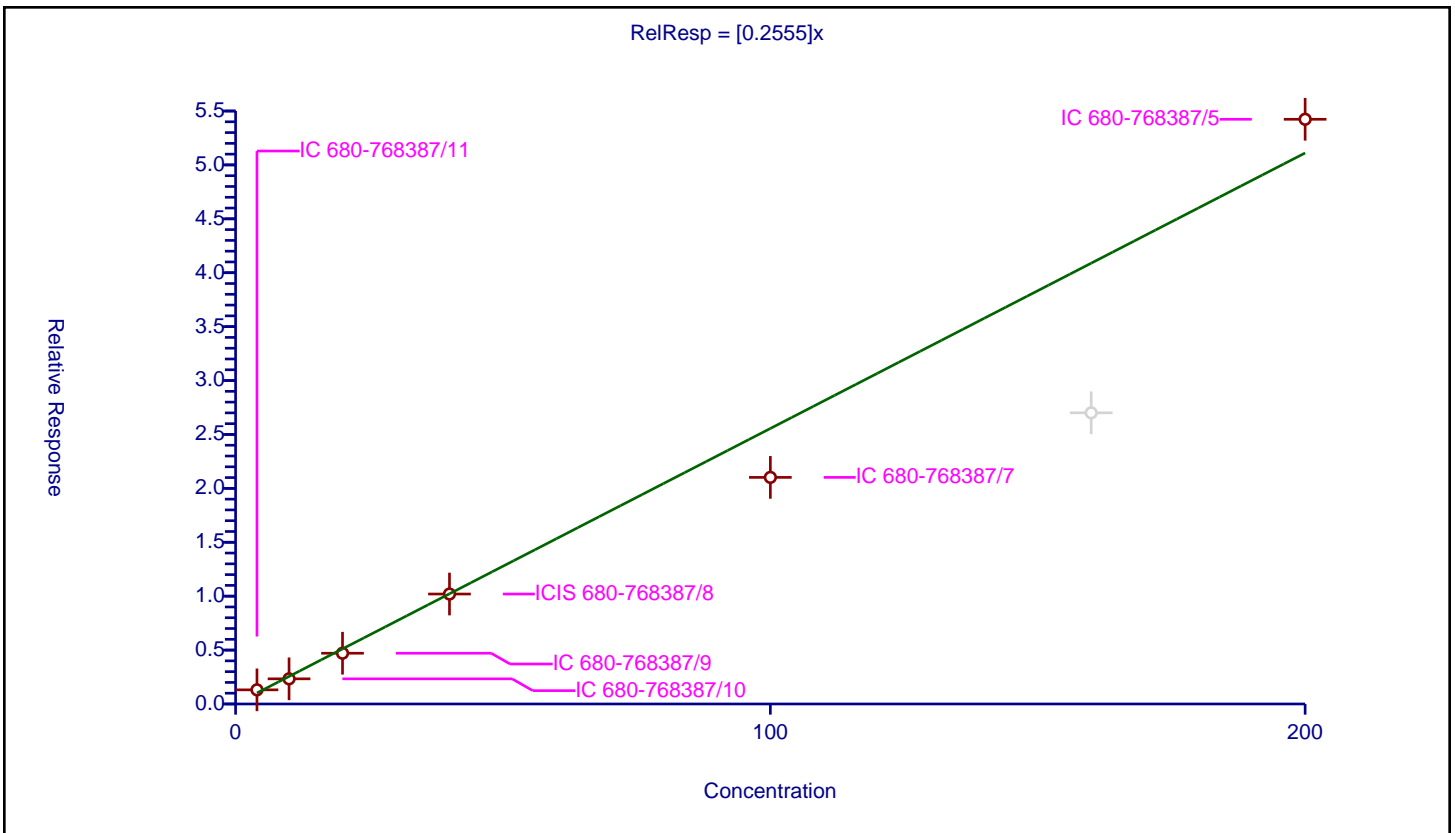
/ Tetraethylene Glycol

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

| Curve Coefficients | |
|--------------------|--------|
| Intercept: | 0 |
| Slope: | 0.2555 |

| Error Coefficients | |
|--|---------|
| Standard Error: | 2640000 |
| Relative Standard Error: | 16.1 |
| Correlation Coefficient: | 0.949 |
| Coefficient of Determination (Adjusted): | 0.955 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-768387/11 | 4.0 | 1.312245 | 50.0 | 5687389.0 | 0.328061 | Y |
| 2 | IC 680-768387/10 | 10.0 | 2.333691 | 50.0 | 5829521.0 | 0.233369 | Y |
| 3 | IC 680-768387/9 | 20.0 | 4.709268 | 50.0 | 4830177.0 | 0.235463 | Y |
| 4 | ICIS 680-768387/8 | 40.0 | 10.199361 | 50.0 | 5093613.0 | 0.254984 | Y |
| 5 | IC 680-768387/7 | 100.0 | 21.018989 | 50.0 | 3786538.0 | 0.21019 | Y |
| 6 | IC 680-768387/6 | 160.0 | 27.00485 | 50.0 | 4412500.0 | 0.16878 | N |
| 7 | IC 680-768387/5 | 200.0 | 54.234193 | 50.0 | 5135926.0 | 0.271171 | Y |



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-124759-1
 SDG No.: _____
 Lab Sample ID: ICV 680-768387/12 Calibration Date: 03/18/2023 19:47
 Instrument ID: CVGG2 Calib Start Date: 03/18/2023 17:04
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 03/18/2023 19:24
 Lab File ID: GC18012.D Conc. Units: mg/L

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|------------------------------------|------------|---------|--------|---------|-------------|--------------|------|--------|
| Ethanol, 2-propoxy | Lin2 | | 0.6485 | | 21.9 | 20.0 | 9.6 | 20.0 |
| 4-Hydroxy-4-methyl-2-pentano ne | Lin2 | | 0.5994 | | 22.0 | 20.0 | 10.0 | 20.0 |
| 2-Butoxyethanol | Lin2 | | 0.7604 | | 23.2 | 20.0 | 15.9 | 20.0 |
| Dipropylene Glycol Methyl Ether | Lin1 | | 0.0492 | | 23.7 | 20.0 | 18.7 | 20.0 |
| Propylene glycol | QuaF | | 0.1153 | | 23.8 | 20.0 | 19.2 | 20.0 |
| Ethylene glycol | Lin2 | | 0.4915 | | 21.4 | 20.0 | 7.1 | 20.0 |
| 2-(2-Butoxyethoxy)ethanol | Lin2 | | 0.5183 | | 22.3 | 20.0 | 11.3 | 20.0 |
| 2,2'-Oxybisethanol | Lin2 | | 0.2533 | | 19.9 | 20.0 | -0.4 | 20.0 |
| Triethylene Glycol | Ave | 0.2491 | 0.2683 | | 21.5 | 20.0 | 7.7 | 20.0 |
| Tetraethylene Glycol | Ave | 0.2555 | 0.2749 | | 43.0 | 40.0 | 7.6 | 20.0 |

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-124759-1
 SDG No.: _____
 Lab Sample ID: ICV 680-768387/12 Calibration Date: 03/18/2023 19:47
 Instrument ID: CVGG2 Calib Start Date: 03/18/2023 17:04
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 03/18/2023 19:24
 Lab File ID: GC18012.D

| Analyte | RT | RT WINDOW | |
|---------------------------------|-------|-----------|-------|
| | | FROM | TO |
| Ethanol, 2-propoxy | 2.91 | 2.87 | 2.99 |
| 4-Hydroxy-4-methyl-2-pentanone | 3.46 | 3.42 | 3.56 |
| 2-Butoxyethanol | 3.76 | 3.69 | 3.84 |
| Dipropylene Glycol Methyl Ether | 5.13 | 5.04 | 5.25 |
| Propylene glycol | 6.35 | 6.47 | 6.74 |
| Ethylene glycol | 6.56 | 6.22 | 6.47 |
| 2-(2-Butoxyethoxy)ethanol | 8.40 | 8.23 | 8.57 |
| 2,2'-Oxybisethanol | 9.60 | 9.41 | 9.80 |
| Triethylene Glycol | 10.63 | 10.43 | 10.86 |
| Tetraethylene Glycol | 11.76 | 11.53 | 12.00 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18012.D
 Lims ID: icv gly
 Client ID:
 Sample Type: CCV
 Inject. Date: 18-Mar-2023 19:47:38 ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084498-012
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 19-Mar-2023 18:12:51 Calib Date: 18-Mar-2023 19:24:22
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1624

First Level Reviewer: SWK1 Date: 19-Mar-2023 17:25:35

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

| | | | | | | |
|-----------------------------------|--------|--------|---------|------|------|---|
| 1 Ethanol, 2-propoxy | | | | | | |
| 2.910 | 2.930 | -0.020 | 1545573 | 20.0 | 21.9 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 3.461 | 3.492 | -0.031 | 1428608 | 20.0 | 22.0 | |
| 3 2-Butoxyethanol | | | | | | |
| 3.755 | 3.762 | -0.007 | 1812232 | 20.0 | 23.2 | |
| * 4 n-Heptyl Alcohol | | | | | | |
| 4.206 | 4.189 | 0.017 | 5958489 | 50.0 | 50.0 | M |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 5.131 | 5.147 | -0.016 | 117334 | 20.0 | 23.7 | M |
| 7 Ethylene glycol | | | | | | |
| 6.555 | 6.345 | 0.210 | 1171446 | 20.0 | 21.4 | |
| 6 Propylene glycol | | | | | | |
| 6.346 | 6.604 | -0.258 | 274708 | 20.0 | 23.8 | |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 8.400 | 8.398 | 0.002 | 1235420 | 20.0 | 22.3 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 9.599 | 9.605 | -0.006 | 603773 | 20.0 | 19.9 | |
| 10 Triethylene Glycol | | | | | | |
| 10.626 | 10.647 | -0.021 | 639411 | 20.0 | 21.5 | |
| 11 Tetraethylene Glycol | | | | | | |
| 11.760 | 11.762 | -0.002 | 1310165 | 40.0 | 43.0 | |

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\20230318-84498.b\GC18012.D

Injection Date: 18-Mar-2023 19:47:38

Instrument ID: CVGG2

Operator ID:

Lims ID: icv gly

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

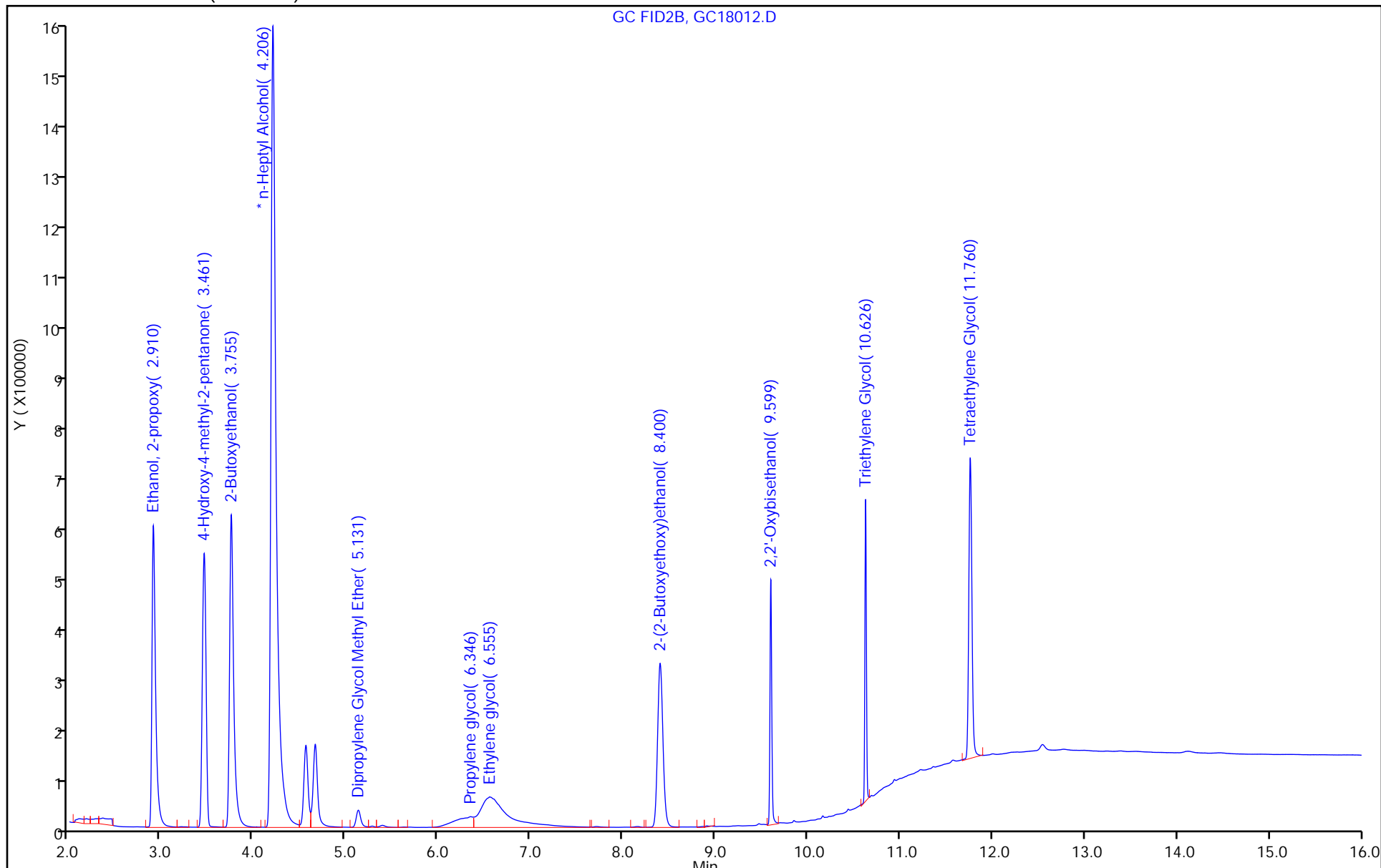
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

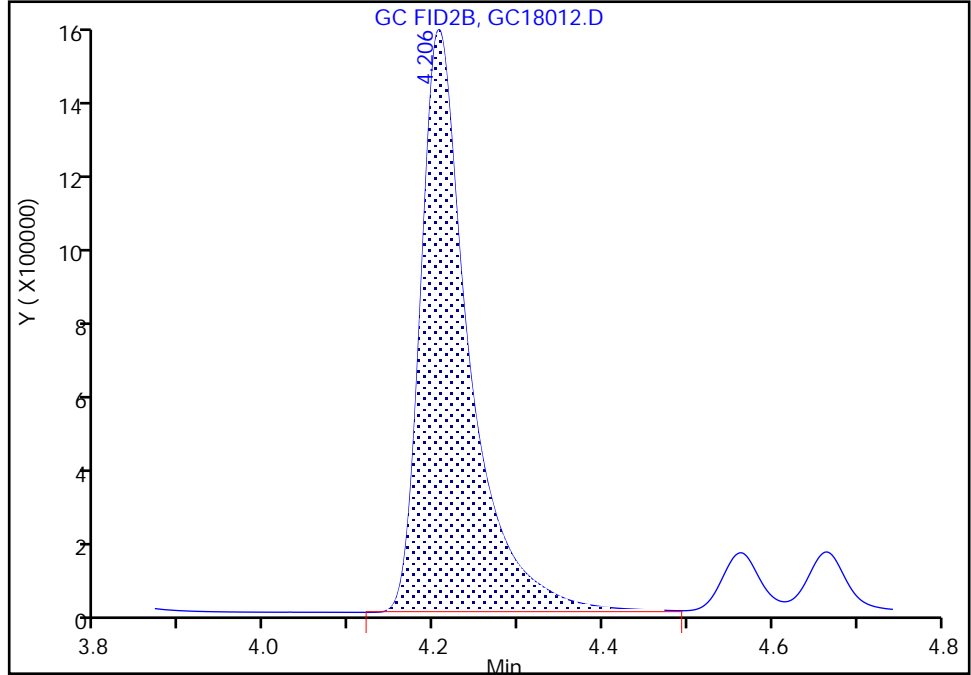
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18012.D
Injection Date: 18-Mar-2023 19:47:38 Instrument ID: CVGG2
Lims ID: icv gly
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

Signal: 1

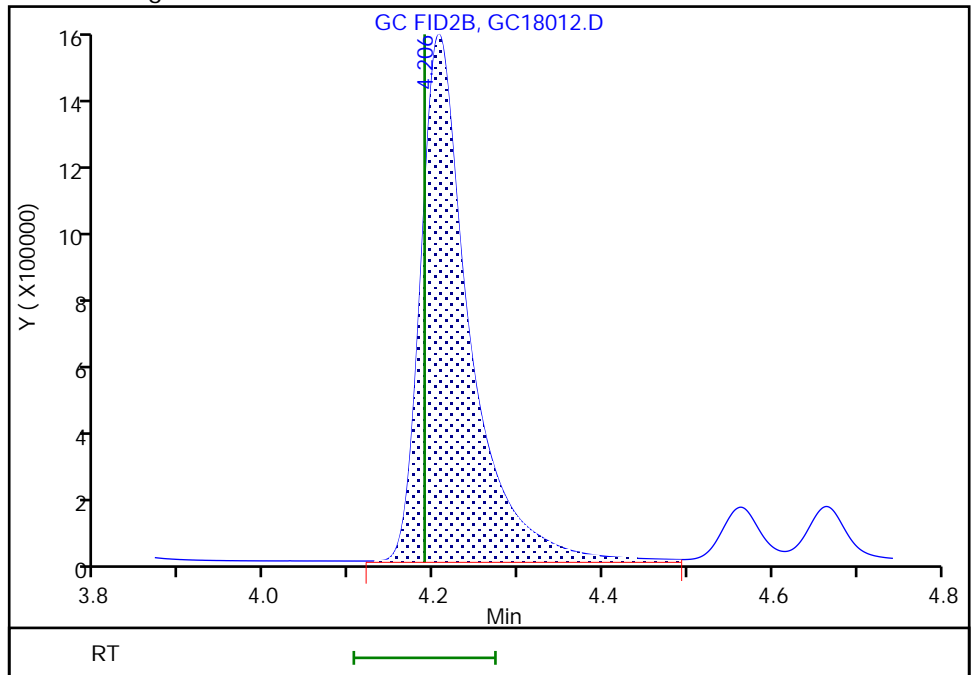
Processing Integration Results

RT: 4.21
Area: 5899756
Amount: 50.000000
Amount Units: ug/ml



Manual Integration Results

RT: 4.21
Area: 5958489
Amount: 50.000000
Amount Units: ug/ml



Reviewer: SWK1, 19-Mar-2023 17:25:32
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

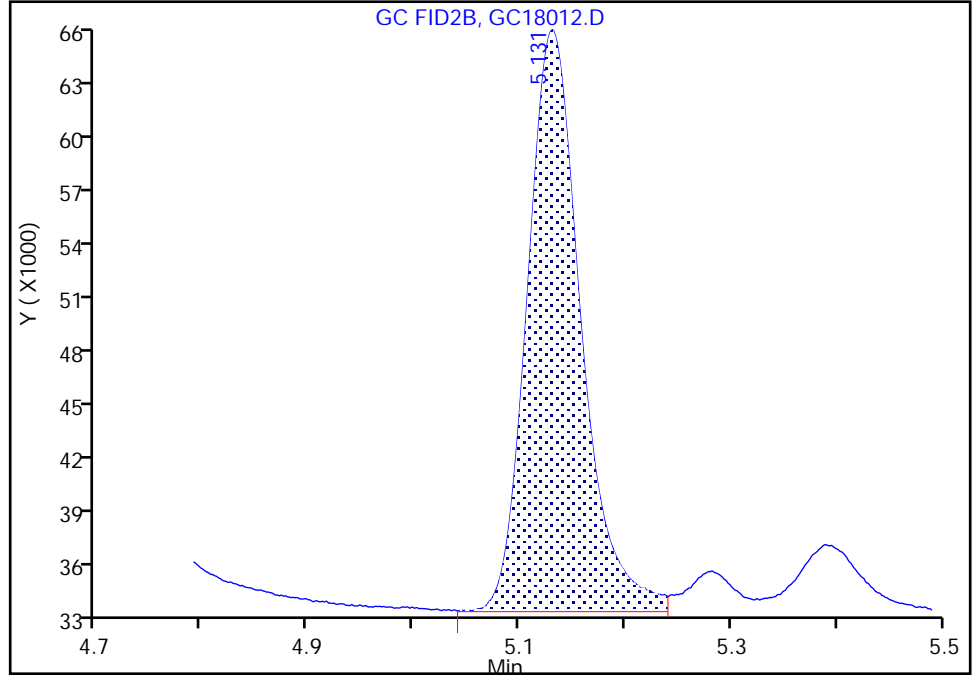
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18012.D
Injection Date: 18-Mar-2023 19:47:38 Instrument ID: CVGG2
Lims ID: icv gly
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

5 Dipropylene Glycol Methyl Ether, CAS: 34590-94-8

Signal: 1

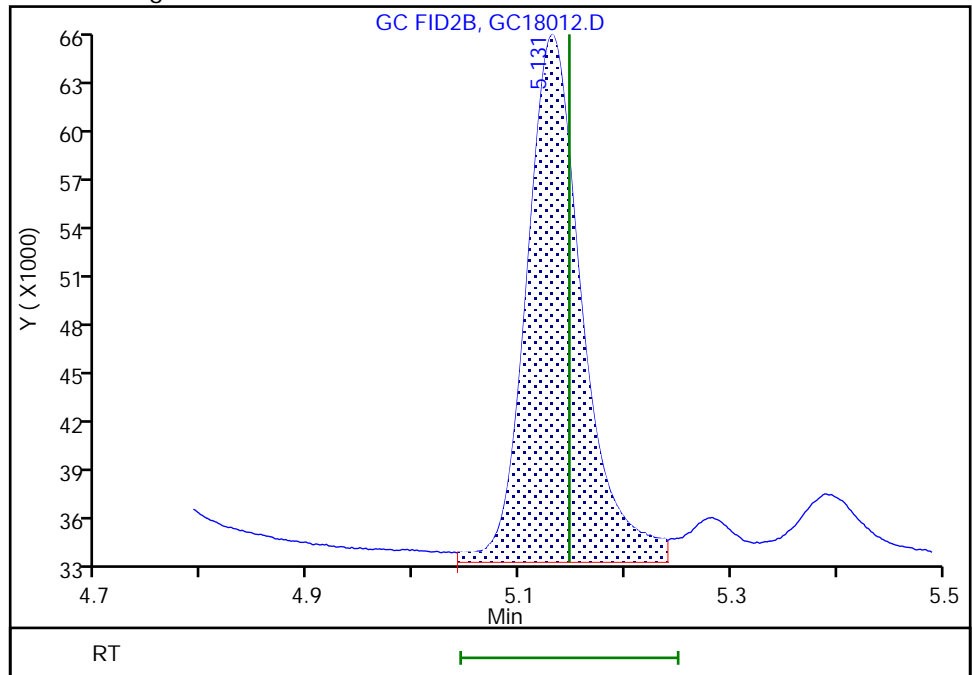
RT: 5.13
Area: 111783
Amount: 21.359854
Amount Units: ug/ml

Processing Integration Results



RT: 5.13
Area: 117334
Amount: 23.733940
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 19-Mar-2023 17:25:32
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-124759-1
 SDG No.: _____
 Lab Sample ID: CCV 680-768387/33 Calibration Date: 03/19/2023 03:56
 Instrument ID: CVGG2 Calib Start Date: 03/18/2023 17:04
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 03/18/2023 19:24
 Lab File ID: GC18033.D Conc. Units: mg/L

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|------------------------------------|------------|---------|--------|---------|-------------|--------------|--------|--------|
| Ethanol, 2-propoxy | Lin2 | | 0.7550 | | 25.8 | 20.0 | 28.9* | 20.0 |
| 4-Hydroxy-4-methyl-2-pentano ne | Lin2 | | 0.7808 | | 29.1 | 20.0 | 45.5* | 20.0 |
| 2-Butoxyethanol | Lin2 | | 0.8051 | | 24.6 | 20.0 | 23.2* | 20.0 |
| Dipropylene Glycol Methyl Ether | Lin1 | | 0.0681 | | 33.3 | 20.0 | 66.7* | 20.0 |
| Propylene glycol | QuaF | | 0.1075 | | 22.3 | 20.0 | 11.6 | 20.0 |
| Ethylene glycol | Lin2 | | 0.5428 | | 23.8 | 20.0 | 18.8 | 20.0 |
| 2-(2-Butoxyethoxy)ethanol | Lin2 | | 0.7366 | | 32.3 | 20.0 | 61.7* | 20.0 |
| 2,2'-Oxybisethanol | Lin2 | | 0.1522 | | 11.4 | 20.0 | -43.1* | 20.0 |
| Triethylene Glycol | Ave | 0.2491 | 0.0056 | | 2.50 | 20.0 | -97.8* | 20.0 |
| Tetraethylene Glycol | Ave | 0.2555 | | | 10.0 | 40.0 | | |

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-124759-1
 SDG No.: _____
 Lab Sample ID: CCV 680-768387/33 Calibration Date: 03/19/2023 03:56
 Instrument ID: CVGG2 Calib Start Date: 03/18/2023 17:04
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 03/18/2023 19:24
 Lab File ID: GC18033.D

| Analyte | RT | RT WINDOW | |
|---------------------------------|-------|-----------|-------|
| | | FROM | TO |
| Ethanol, 2-propoxy | 2.93 | 2.87 | 2.99 |
| 4-Hydroxy-4-methyl-2-pentanone | 3.49 | 3.42 | 3.56 |
| 2-Butoxyethanol | 3.76 | 3.69 | 3.84 |
| Dipropylene Glycol Methyl Ether | 5.15 | 5.04 | 5.25 |
| Propylene glycol | 6.34 | 6.22 | 6.47 |
| Ethylene glycol | 6.60 | 6.47 | 6.73 |
| 2-(2-Butoxyethoxy)ethanol | 8.40 | 8.23 | 8.57 |
| 2,2'-Oxybisethanol | 9.60 | 9.41 | 9.80 |
| Triethylene Glycol | 10.63 | 10.42 | 10.84 |
| Tetraethylene Glycol | | | |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18033.D
 Lims ID: ccv g4
 Client ID:
 Sample Type: CCV
 Inject. Date: 19-Mar-2023 03:56:08 ALS Bottle#: 0 Worklist Smp#: 33
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084498-033
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 19-Mar-2023 18:12:53 Calib Date: 18-Mar-2023 19:24:22
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1624

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

| | | | | | | |
|-----------------------------------|--------|--------|-------|---------|------|--------|
| 1 Ethanol, 2-propoxy | 2.927 | 2.927 | 0.000 | 1744423 | 20.0 | 25.8 |
| 2 4-Hydroxy-4-methyl-2-pentanone | 3.486 | 3.486 | 0.000 | 1804003 | 20.0 | 29.1 |
| 3 2-Butoxyethanol | 3.762 | 3.762 | 0.000 | 1860256 | 20.0 | 24.6 |
| * 4 n-Heptyl Alcohol | 4.190 | 4.190 | 0.000 | 5776224 | 50.0 | 50.0 |
| 5 Dipropylene Glycol Methyl Ether | 5.146 | 5.146 | 0.000 | 157310 | 20.0 | 33.3 |
| 7 Ethylene glycol | 6.602 | 6.602 | 0.000 | 1254023 | 20.0 | 23.8 |
| 6 Propylene glycol | 6.344 | 6.344 | 0.000 | 248264 | 20.0 | 22.3 |
| 8 2-(2-Butoxyethoxy)ethanol | 8.400 | 8.400 | 0.000 | 1701817 | 20.0 | 32.3 |
| 9 2,2'-Oxybisethanol | 9.603 | 9.603 | 0.000 | 351647 | 20.0 | 11.4 |
| 10 Triethylene Glycol | 10.632 | 10.632 | 0.000 | 12932 | 20.0 | 0.4494 |

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\20230318-84498.b\GC18033.D

Injection Date: 19-Mar-2023 03:56:08

Instrument ID: CVGG2

Operator ID:

Lims ID: ccv g4

Worklist Smp#: 33

Client ID:

Injection Vol: 1.0 ul

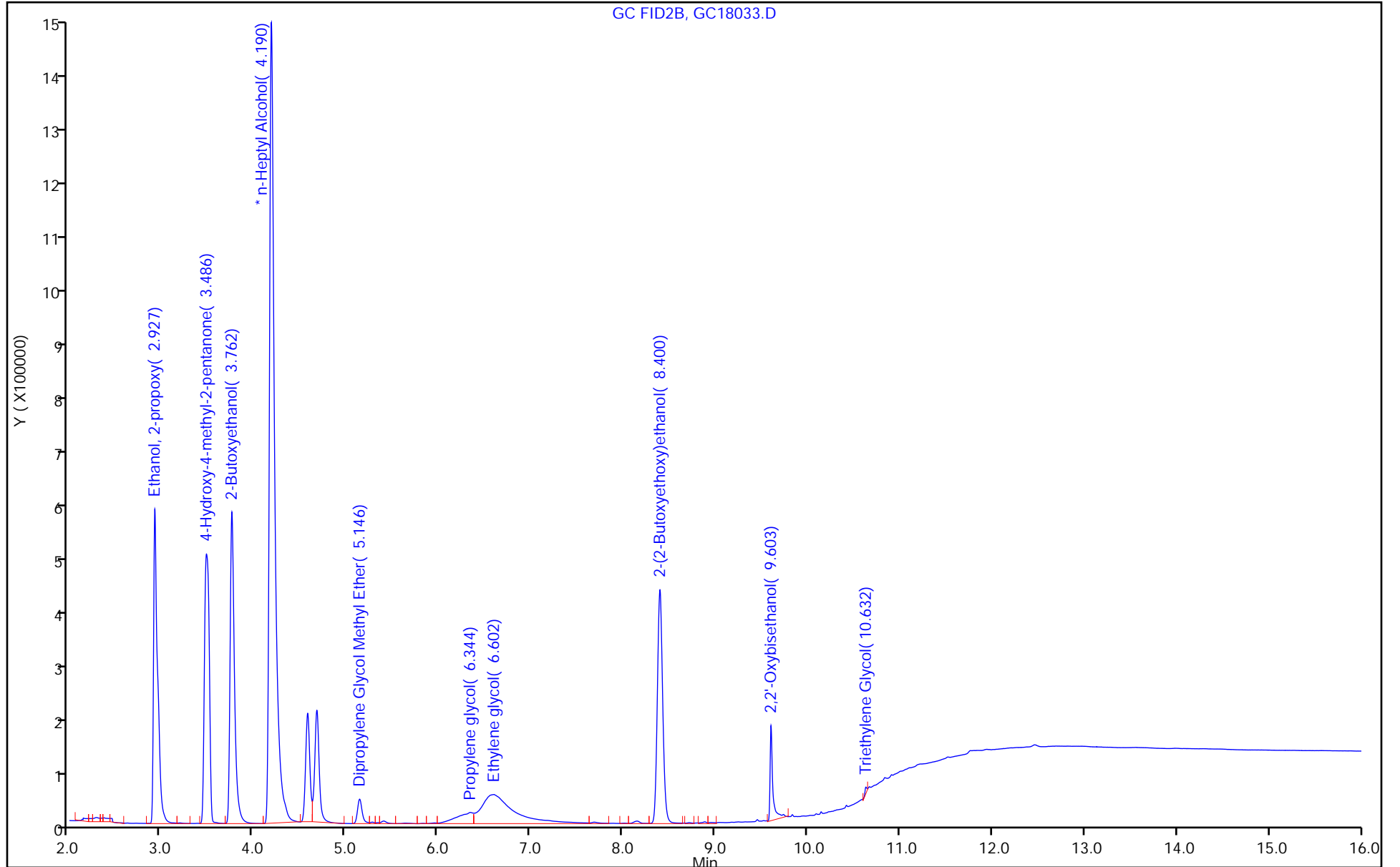
Dil. Factor: 1.0000

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.: 580-124759-1
 SDG No.: _____
 Lab Sample ID: CCV 680-768387/41 Calibration Date: 03/19/2023 07:01
 Instrument ID: CVGG2 Calib Start Date: 03/18/2023 17:04
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 03/18/2023 19:24
 Lab File ID: GC18041.D Conc. Units: mg/L

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|------------------------------------|------------|---------|--------|---------|-------------|--------------|--------|--------|
| Ethanol, 2-propoxy | Lin2 | | 0.7358 | | 25.1 | 20.0 | 25.4* | 20.0 |
| 4-Hydroxy-4-methyl-2-pentano ne | Lin2 | | 0.7550 | | 28.1 | 20.0 | 40.5* | 20.0 |
| 2-Butoxyethanol | Lin2 | | 0.7901 | | 24.2 | 20.0 | 20.8* | 20.0 |
| Dipropylene Glycol Methyl Ether | Lin1 | | 0.0613 | | 29.9 | 20.0 | 49.4* | 20.0 |
| Ethylene glycol | Lin2 | | 0.0765 | | 2.38 | 20.0 | -88.1* | 20.0 |
| Propylene glycol | QuaF | | 0.4927 | | 85.6 | 20.0 | 328.1* | 20.0 |
| 2-(2-Butoxyethoxy)ethanol | Lin2 | | 0.7018 | | 30.7 | 20.0 | 53.7* | 20.0 |
| 2,2'-Oxybisethanol | Lin2 | | 0.1356 | | 9.97 | 20.0 | -50.2* | 20.0 |
| Triethylene Glycol | Ave | 0.2491 | 0.0071 | | 2.50 | 20.0 | -97.2* | 20.0 |
| Tetraethylene Glycol | Ave | 0.2555 | | | 10.0 | 40.0 | | |

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-124759-1
 SDG No.: _____
 Lab Sample ID: CCV 680-768387/41 Calibration Date: 03/19/2023 07:01
 Instrument ID: CVGG2 Calib Start Date: 03/18/2023 17:04
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 03/18/2023 19:24
 Lab File ID: GC18041.D

| Analyte | RT | RT WINDOW | |
|---------------------------------|-------|-----------|-------|
| | | FROM | TO |
| Ethanol, 2-propoxy | 2.93 | 2.87 | 2.99 |
| 4-Hydroxy-4-methyl-2-pentanone | 3.49 | 3.42 | 3.56 |
| 2-Butoxyethanol | 3.76 | 3.69 | 3.84 |
| Dipropylene Glycol Methyl Ether | 5.15 | 5.04 | 5.25 |
| Ethylene glycol | 6.35 | 6.22 | 6.47 |
| Propylene glycol | 6.60 | 6.47 | 6.74 |
| 2-(2-Butoxyethoxy)ethanol | 8.40 | 8.23 | 8.57 |
| 2,2'-Oxybisethanol | 9.61 | 9.41 | 9.80 |
| Triethylene Glycol | 10.65 | 10.43 | 10.86 |
| Tetraethylene Glycol | | | |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18041.D
 Lims ID: ccv g4
 Client ID:
 Sample Type: CCV
 Inject. Date: 19-Mar-2023 07:01:36 ALS Bottle#: 0 Worklist Smp#: 41
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084498-041
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 19-Mar-2023 18:12:54 Calib Date: 18-Mar-2023 19:24:22
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1624

First Level Reviewer: SWK1 Date: 19-Mar-2023 18:12:27

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

| | | | | | | | |
|-----------------------------------|--------|--------|-------|---------|------|--------|----|
| 1 Ethanol, 2-propoxy | 2.930 | 2.930 | 0.000 | 1683345 | 20.0 | 25.1 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | 3.492 | 3.492 | 0.000 | 1727330 | 20.0 | 28.1 | |
| 3 2-Butoxyethanol | 3.762 | 3.762 | 0.000 | 1807723 | 20.0 | 24.2 | |
| * 4 n-Heptyl Alcohol | 4.189 | 4.189 | 0.000 | 5719787 | 50.0 | 50.0 | |
| 5 Dipropylene Glycol Methyl Ether | 5.147 | 5.147 | 0.000 | 140227 | 20.0 | 29.9 | |
| 6 Propylene glycol | 6.604 | 6.604 | 0.000 | 1127143 | 20.0 | 85.6 | M |
| 7 Ethylene glycol | 6.345 | 6.345 | 0.000 | 174970 | 20.0 | 2.38 | Ma |
| 8 2-(2-Butoxyethoxy)ethanol | 8.398 | 8.398 | 0.000 | 1605598 | 20.0 | 30.7 | |
| 9 2,2'-Oxybisethanol | 9.605 | 9.605 | 0.000 | 310156 | 20.0 | 9.97 | |
| 10 Triethylene Glycol | 10.647 | 10.647 | 0.000 | 16199 | 20.0 | 0.5684 | |

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

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\20230318-84498.b\GC18041.D

Injection Date: 19-Mar-2023 07:01:36

Instrument ID: CVGG2

Operator ID:

Lims ID: ccv g4

Worklist Smp#: 41

Client ID:

Injection Vol: 1.0 ul

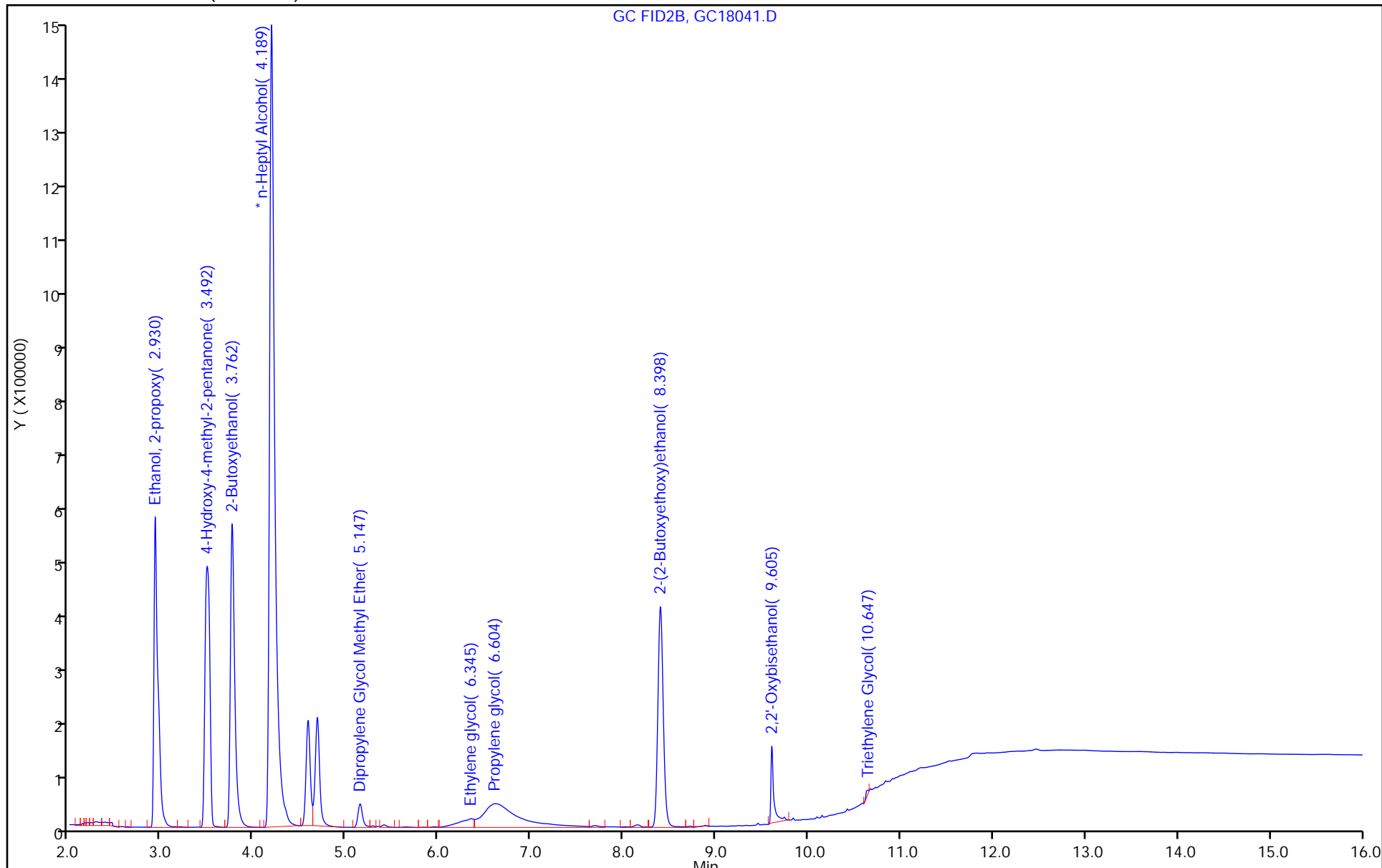
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

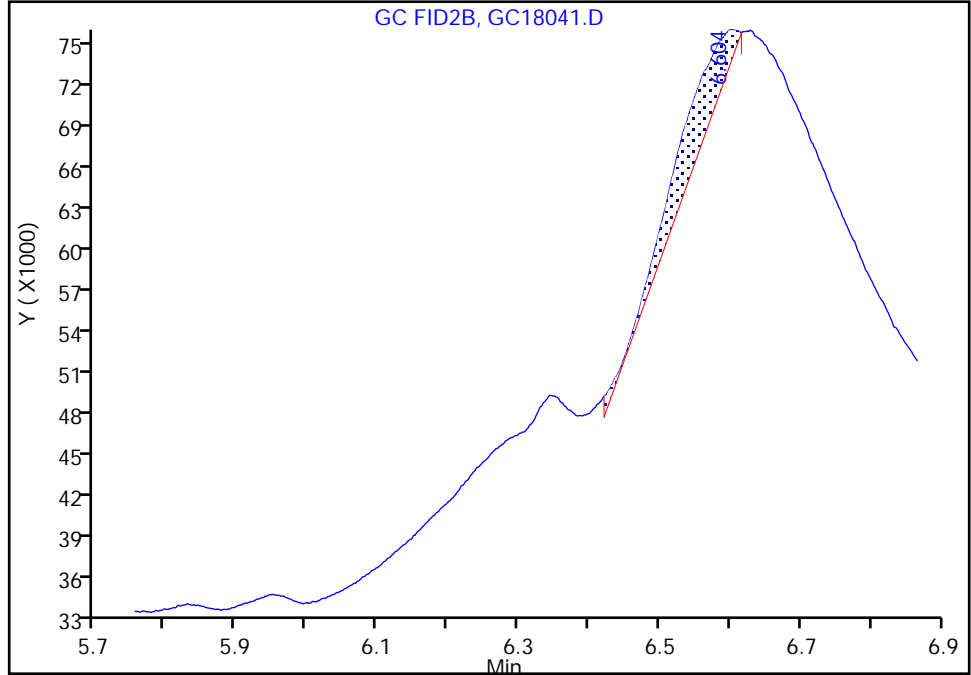
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18041.D
Injection Date: 19-Mar-2023 07:01:36 Instrument ID: CVGG2
Lims ID: ccv g4
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 41
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

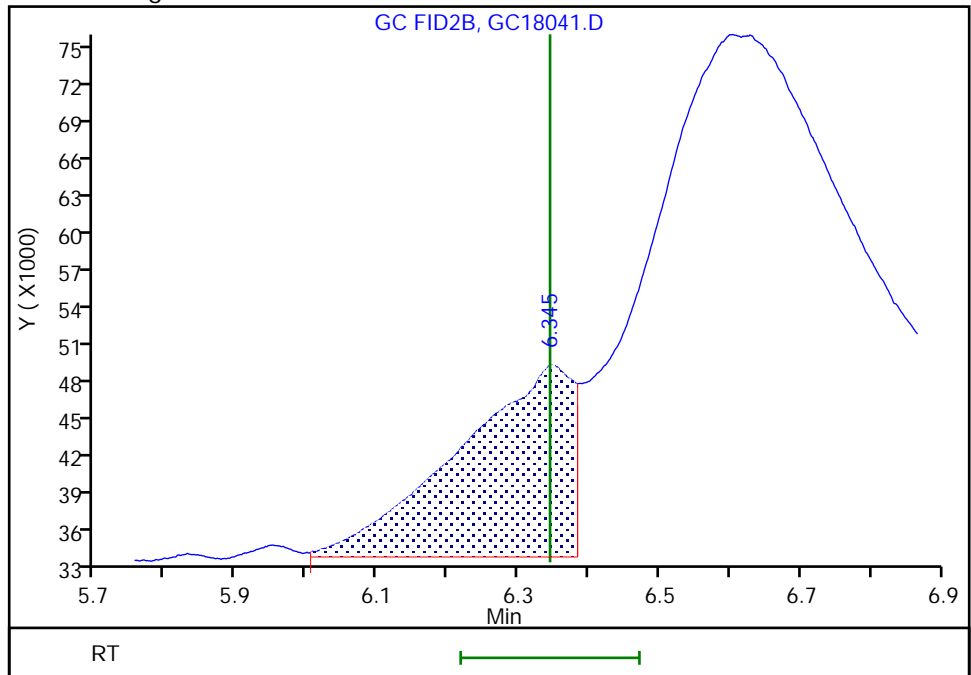
RT: 6.60
Area: 28595
Amount: -0.555819
Amount Units: ug/ml

Processing Integration Results



RT: 6.34
Area: 174970
Amount: 2.378604
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 19-Mar-2023 18:12:23

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

Eurofins Savannah

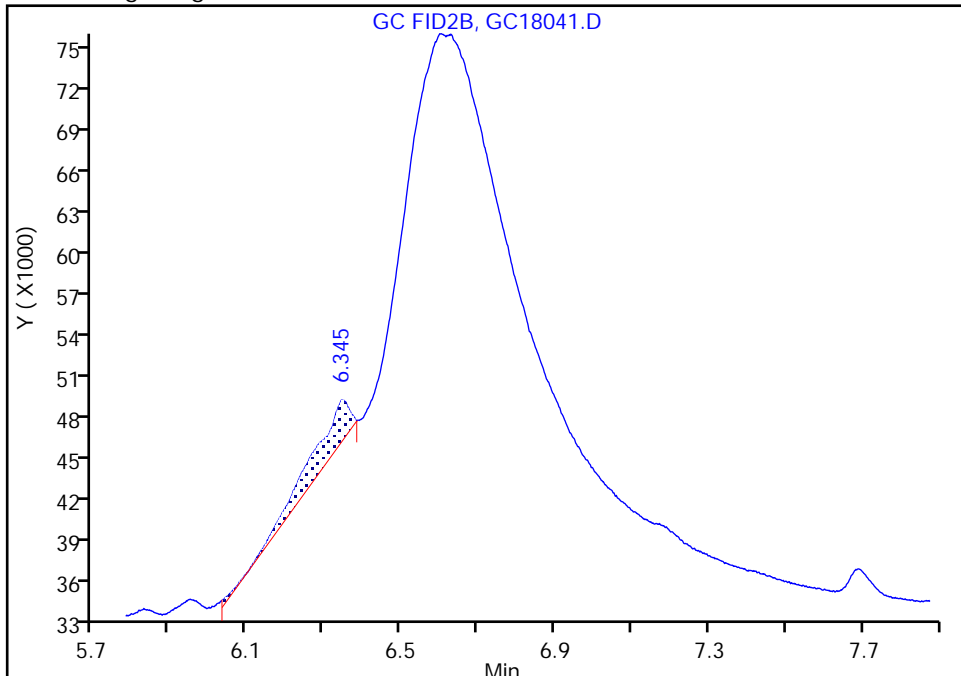
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18041.D
Injection Date: 19-Mar-2023 07:01:36 Instrument ID: CVGG2
Lims ID: ccv g4
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 41
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

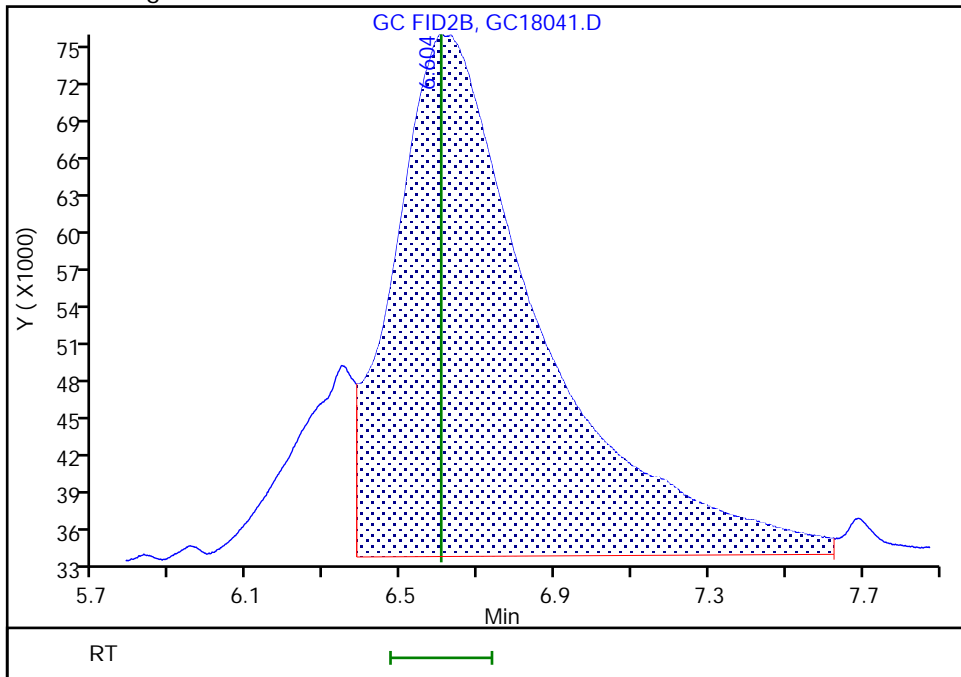
RT: 6.34
Area: 23564
Amount: 2.280267
Amount Units: ug/ml

Processing Integration Results



RT: 6.60
Area: 1127143
Amount: 85.624747
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 19-Mar-2023 18:12:21
Audit Action: Split an Integrated Peak

Audit Reason: Baseline Smoothing

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-124759-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 680-768387/17
 Matrix: Water Lab File ID: GC18017.D
 Analysis Method: 8015C GLY Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 03/18/2023 21:44
 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.: 768387 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\20230318-84498.b\GC18017.D
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 18-Mar-2023 21:44:07 ALS Bottle#: 0 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084498-017
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 19-Mar-2023 18:12:27 Calib Date: 18-Mar-2023 19:24:22
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1624

First Level Reviewer: SWK1 Date: 19-Mar-2023 18:09:19

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

* 4 n-Heptyl Alcohol
 4.209 4.189 0.020 6245745 50.0 50.0
 6 Propylene glycol 7
 6.353 6.604 -0.251 4976 0.4437 7
 LOD = 0.5000

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SG_GLY_ISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18017.D

Injection Date: 18-Mar-2023 21:44:07

Instrument ID: CVGG2

Operator ID:

Lims ID: mb

Worklist Smp#: 17

Client ID:

Injection Vol: 1.0 ul

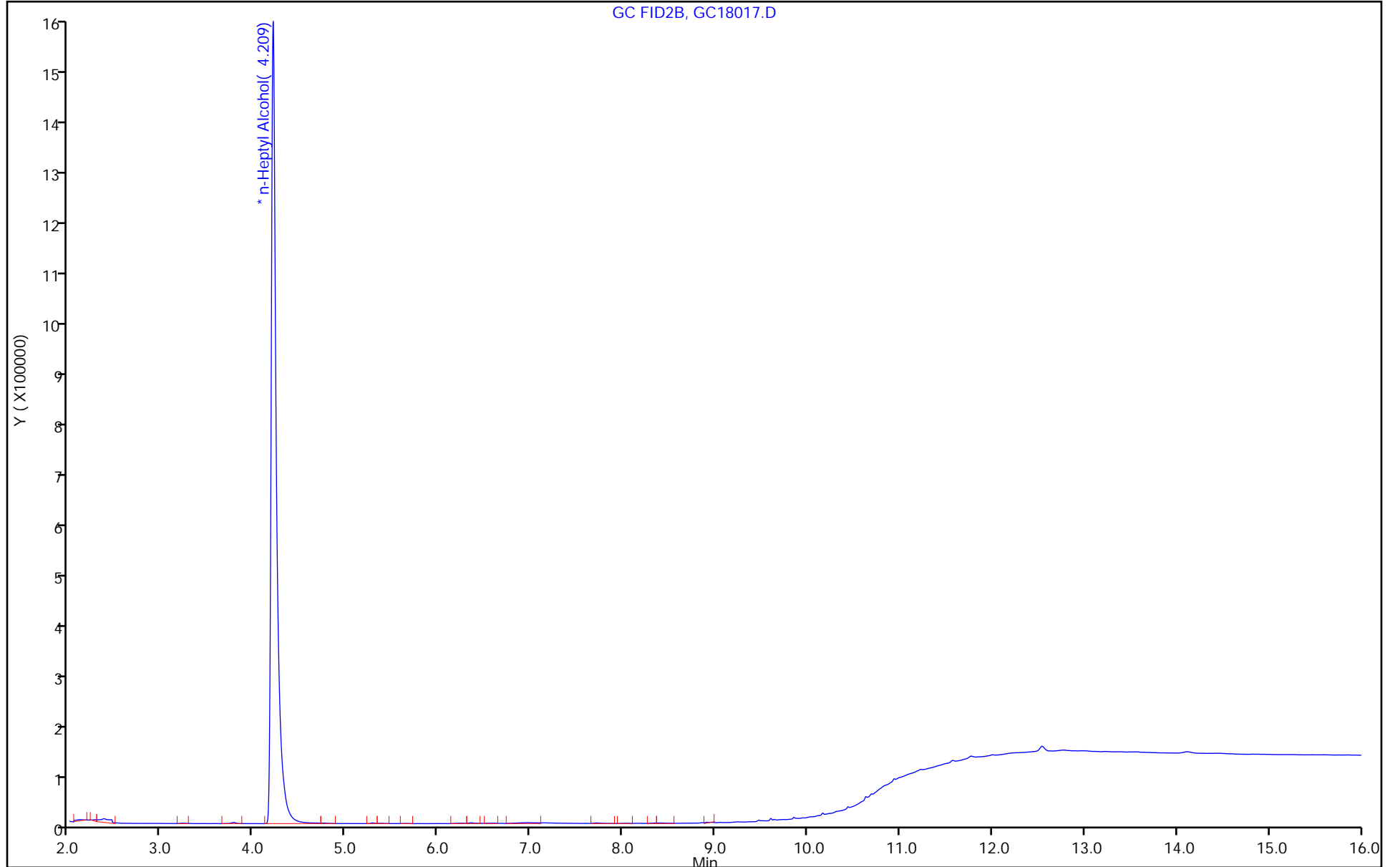
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



GC FID2B, GC18017.D

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-124759-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 680-768387/13
 Matrix: Water Lab File ID: GC18013.D
 Analysis Method: 8015C GLY Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 03/18/2023 20:11
 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.: 768387 Units: mg/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|----------|---------------------------|--------|---|-----|-----|-----|
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 24.5 | | 5.0 | 3.0 | 1.1 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18013.D
 Lims ID: lcs
 Client ID:
 Sample Type: LCS
 Inject. Date: 18-Mar-2023 20:11:01 ALS Bottle#: 0 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084498-013
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 19-Mar-2023 18:12:51 Calib Date: 18-Mar-2023 19:24:22
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1624

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

| | | | | | | |
|-----------------------------------|--------|--------|--------|---------|------|------|
| 1 Ethanol, 2-propoxy | 2.913 | 2.930 | -0.017 | 1398376 | 20.0 | 24.1 |
| 2 4-Hydroxy-4-methyl-2-pentanone | 3.462 | 3.492 | -0.030 | 1301924 | 20.0 | 24.4 |
| 3 2-Butoxyethanol | 3.756 | 3.762 | -0.006 | 1631508 | 20.0 | 25.4 |
| * 4 n-Heptyl Alcohol | 4.208 | 4.189 | 0.019 | 4926411 | 50.0 | 50.0 |
| 5 Dipropylene Glycol Methyl Ether | 5.132 | 5.147 | -0.015 | 96775 | 20.0 | 23.7 |
| 7 Ethylene glycol | 6.559 | 6.345 | 0.214 | 1100271 | 20.0 | 24.5 |
| 6 Propylene glycol | 6.351 | 6.604 | -0.253 | 255682 | 20.0 | 26.6 |
| 8 2-(2-Butoxyethoxy)ethanol | 8.402 | 8.398 | 0.004 | 1119002 | 20.0 | 24.5 |
| 9 2,2'-Oxybisethanol | 9.599 | 9.605 | -0.006 | 563686 | 20.0 | 22.7 |
| 10 Triethylene Glycol | 10.627 | 10.647 | -0.020 | 578570 | 20.0 | 23.6 |
| 11 Tetraethylene Glycol | 11.761 | 11.762 | -0.001 | 1145311 | 40.0 | 45.5 |

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\20230318-84498.b\GC18013.D

Injection Date: 18-Mar-2023 20:11:01

Instrument ID: CVGG2

Operator ID:

Lims ID: lcs

Worklist Smp#: 13

Client ID:

Injection Vol: 1.0 ul

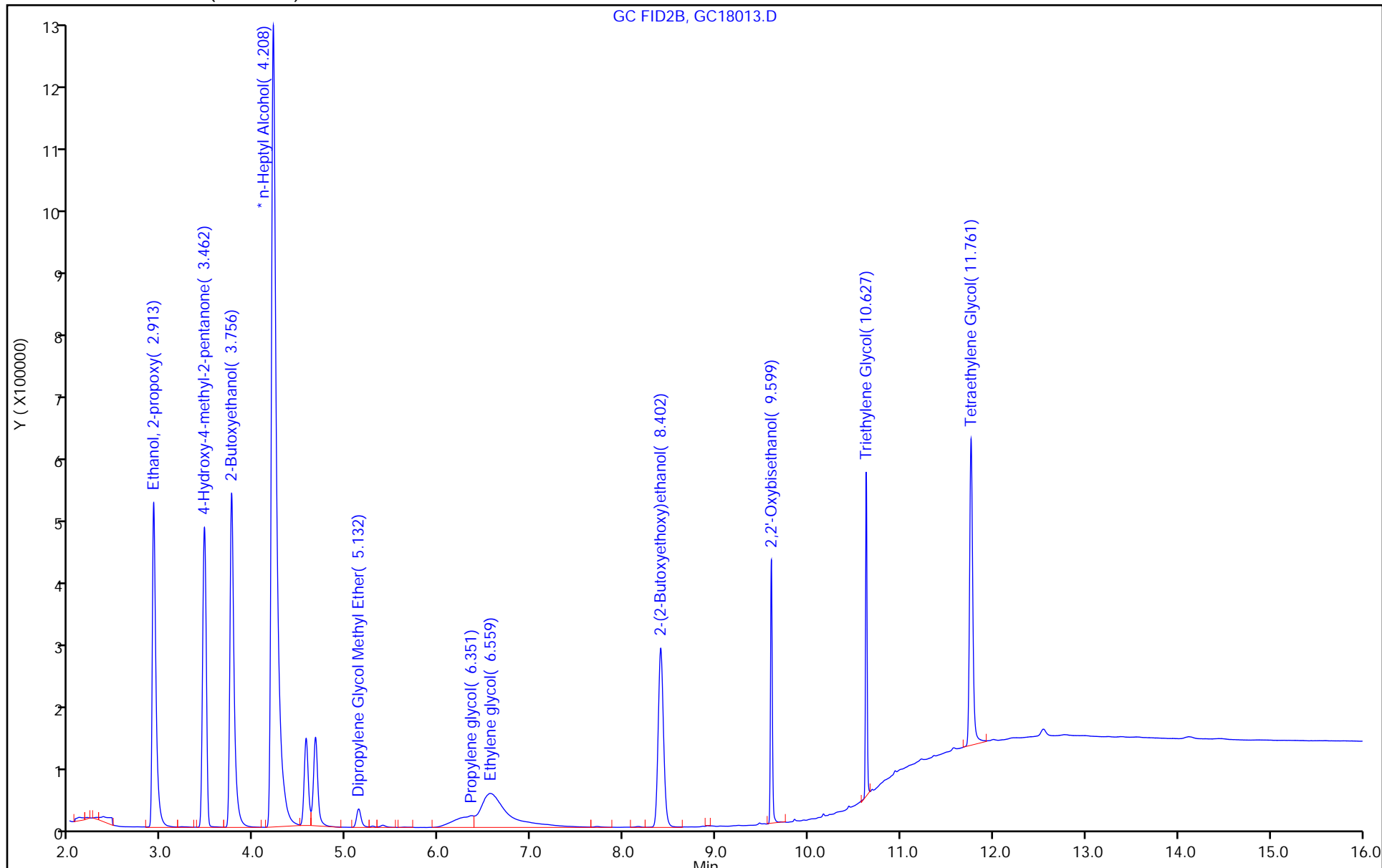
Dil. Factor: 1.0000

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.: 580-124759-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 680-768387/14
 Matrix: Water Lab File ID: GC18014.D
 Analysis Method: 8015C GLY Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 03/18/2023 20:34
 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.: 768387 Units: mg/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|----------|---------------------------|--------|---|-----|-----|-----|
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 23.7 | | 5.0 | 3.0 | 1.1 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18014.D
 Lims ID: lcsd
 Client ID:
 Sample Type: LCSD
 Inject. Date: 18-Mar-2023 20:34:17 ALS Bottle#: 0 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084498-014
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 19-Mar-2023 18:12:51 Calib Date: 18-Mar-2023 19:24:22
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1624

First Level Reviewer: SWK1 Date: 19-Mar-2023 18:09:10

| RT (min.) | Exp RT (min.) | Diff RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------------------------------|---------------|----------------|----------|---------------|-----------------|-------|
| 1 Ethanol, 2-propoxy | | | | | | |
| 2.912 | 2.930 | -0.018 | 1492543 | 20.0 | 23.3 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 3.462 | 3.492 | -0.030 | 1374947 | 20.0 | 23.3 | |
| 3 2-Butoxyethanol | | | | | | |
| 3.755 | 3.762 | -0.007 | 1750615 | 20.0 | 24.7 | |
| * 4 n-Heptyl Alcohol | | | | | | |
| 4.207 | 4.189 | 0.018 | 5427583 | 50.0 | 50.0 | |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 5.131 | 5.147 | -0.016 | 103099 | 20.0 | 22.8 | |
| 7 Ethylene glycol | | | | | | |
| 6.560 | 6.345 | 0.215 | 1150325 | 20.0 | 23.2 | |
| 6 Propylene glycol | | | | | | |
| 6.351 | 6.604 | -0.253 | 270492 | 20.0 | 25.6 | M |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 8.398 | 8.398 | 0.000 | 1193102 | 20.0 | 23.7 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 9.598 | 9.605 | -0.007 | 607414 | 20.0 | 22.2 | |
| 10 Triethylene Glycol | | | | | | |
| 10.626 | 10.647 | -0.021 | 636659 | 20.0 | 23.5 | |
| 11 Tetraethylene Glycol | | | | | | |
| 11.760 | 11.762 | -0.002 | 1297739 | 40.0 | 46.8 | |

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\20230318-84498.b\GC18014.D

Injection Date: 18-Mar-2023 20:34:17

Instrument ID: CVGG2

Operator ID:

Lims ID: lcsd

Worklist Smp#: 14

Client ID:

Injection Vol: 1.0 ul

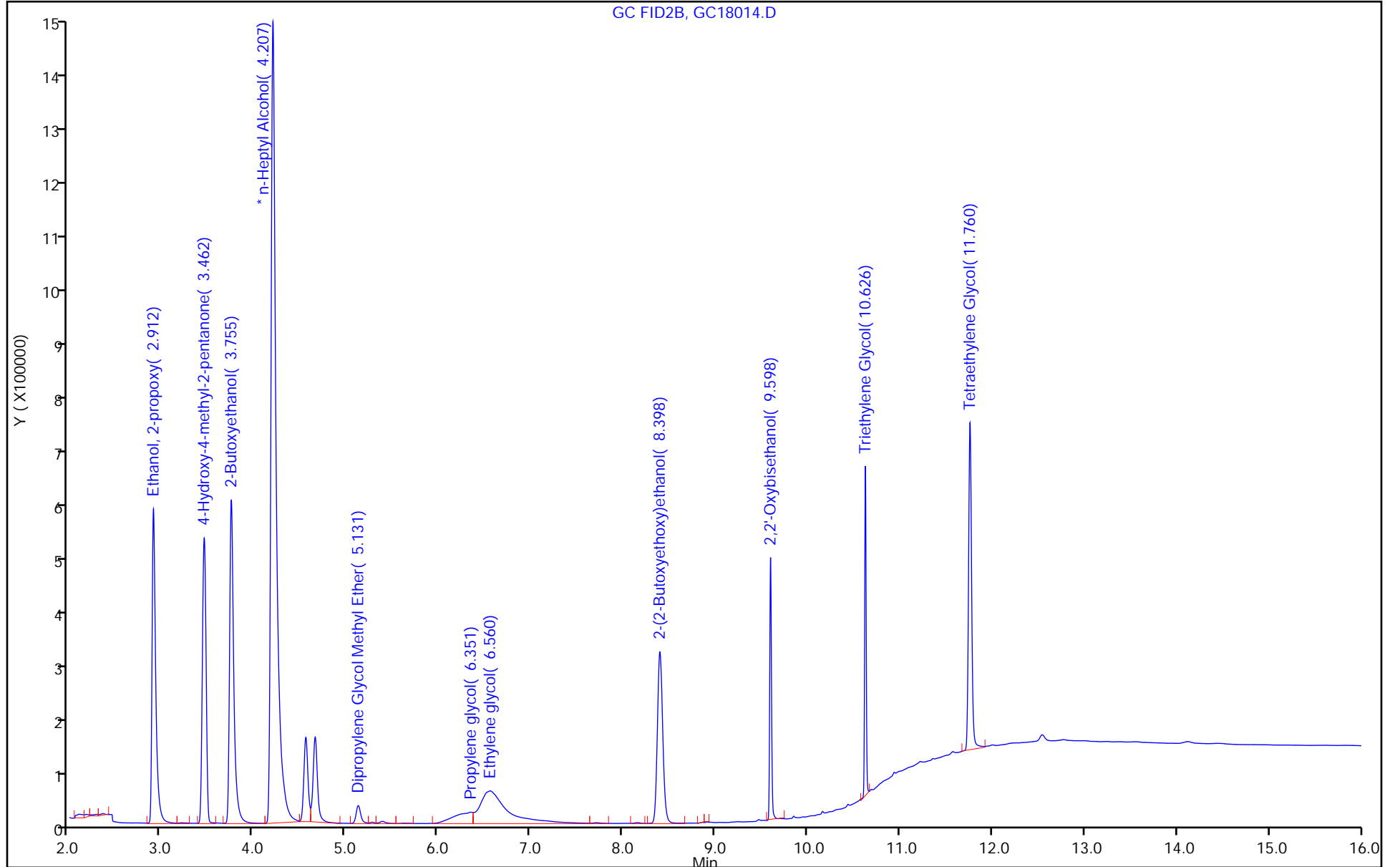
Dil. Factor: 1.0000

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.: 580-124759-1
SDG No.: _____
Client Sample ID: AF-RHMW04-WGN01LF-2303W2 Lab Sample ID: 580-124759-1 MS
MS
Matrix: Water Lab File ID: GC18037.D
Analysis Method: 8015C GLY Date Collected: 03/13/2023 10:10
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 1(mL) Date Analyzed: 03/19/2023 05:28
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.: 768387 Units: mg/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|----------|---------------------------|--------|---|-----|-----|-----|
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 28.4 | | 5.0 | 3.0 | 1.1 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18037.D
 Lims ID: 580-124759-B-1 MS
 Client ID:
 Sample Type: MS
 Inject. Date: 19-Mar-2023 05:28:57 ALS Bottle#: 0 Worklist Smp#: 37
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084498-037
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 19-Mar-2023 18:12:27 Calib Date: 18-Mar-2023 19:24:22
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1624

First Level Reviewer: SWK1 Date: 19-Mar-2023 18:11:51

| RT (min.) | Exp RT (min.) | Diff RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------------------------------|---------------|----------------|----------|---------------|-----------------|-------|
| 1 Ethanol, 2-propoxy | | | | | | |
| 2.923 | 2.930 | -0.007 | 1683818 | 20.0 | 25.2 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 3.487 | 3.492 | -0.005 | 1677294 | 20.0 | 27.4 | |
| 3 2-Butoxyethanol | | | | | | |
| 3.760 | 3.762 | -0.002 | 1880202 | 20.0 | 25.3 | |
| * 4 n-Heptyl Alcohol | | | | | | |
| 4.193 | 4.189 | 0.004 | 5691072 | 50.0 | 50.0 | |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 5.143 | 5.147 | -0.004 | 114785 | 20.0 | 24.3 | |
| 7 Ethylene glycol | | | | | | |
| 6.601 | 6.345 | 0.256 | 970894 | 20.0 | 18.4 | M |
| 6 Propylene glycol | | | | | | |
| 6.293 | 6.604 | -0.311 | 215134 | 20.0 | 19.8 | Ma |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 8.398 | 8.398 | 0.000 | 1482666 | 20.0 | 28.4 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 9.604 | 9.605 | -0.001 | 289442 | 20.0 | 9.25 | |
| 10 Triethylene Glycol | | | | | | |
| 10.659 | 10.647 | 0.012 | 67295 | 20.0 | 2.37 | |

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

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\20230318-84498.b\GC18037.D

Injection Date: 19-Mar-2023 05:28:57

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-124759-B-1 MS

Worklist Smp#: 37

Client ID:

Injection Vol: 1.0 ul

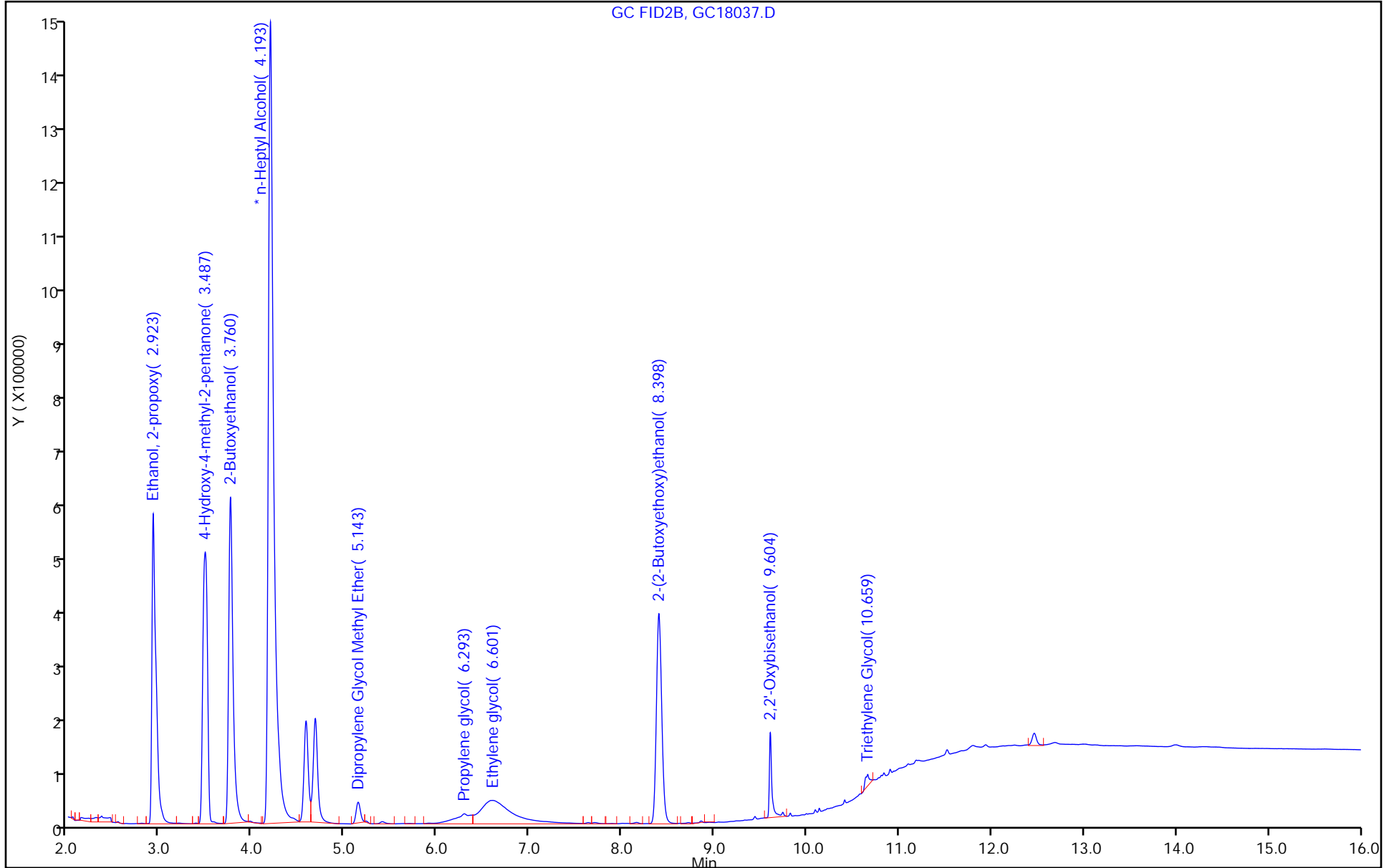
Dil. Factor: 1.0000

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>580-124759-1</u> |
| SDG No.: _____ | |
| Client Sample ID: <u>AF-RHMW04-WGN01LF-2303W2 MSD</u> | Lab Sample ID: <u>580-124759-1 MSD</u> |
| Matrix: <u>Water</u> | Lab File ID: <u>GC18038.D</u> |
| Analysis Method: <u>8015C GLY</u> | Date Collected: <u>03/13/2023 10:10</u> |
| Extraction Method: _____ | Date Extracted: _____ |
| Sample wt/vol: <u>1(mL)</u> | Date Analyzed: <u>03/19/2023 05:52</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>768387</u> | Units: <u>mg/L</u> |

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|----------|---------------------------|--------|---|-----|-----|-----|
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 25.7 | | 5.0 | 3.0 | 1.1 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18038.D
 Lims ID: 580-124759-B-1 MSD
 Client ID:
 Sample Type: MSD
 Inject. Date: 19-Mar-2023 05:52:05 ALS Bottle#: 0 Worklist Smp#: 38
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0084498-038
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 19-Mar-2023 18:12:27 Calib Date: 18-Mar-2023 19:24:22
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1624

First Level Reviewer: SWK1 Date: 19-Mar-2023 18:12:00

| RT (min.) | Exp RT (min.) | Diff RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------------------------------|---------------|----------------|----------|---------------|-----------------|-------|
| 1 Ethanol, 2-propoxy | | | | | | |
| 2.921 | 2.930 | -0.009 | 1736461 | 20.0 | 25.5 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 3.480 | 3.492 | -0.012 | 1637152 | 20.0 | 26.1 | |
| 3 2-Butoxyethanol | | | | | | |
| 3.759 | 3.762 | -0.003 | 1973142 | 20.0 | 26.1 | |
| * 4 n-Heptyl Alcohol | | | | | | |
| 4.199 | 4.189 | 0.010 | 5815695 | 50.0 | 50.0 | |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 5.139 | 5.147 | -0.008 | 123271 | 20.0 | 25.6 | |
| 7 Ethylene glycol | | | | | | |
| 6.606 | 6.345 | 0.261 | 986096 | 20.0 | 18.3 | |
| 6 Propylene glycol | | | | | | |
| 6.289 | 6.604 | -0.315 | 194709 | 20.0 | 17.6 | M |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 8.399 | 8.398 | 0.001 | 1377264 | 20.0 | 25.7 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 9.604 | 9.605 | -0.001 | 458098 | 20.0 | 15.2 | |
| 10 Triethylene Glycol | | | | | | |
| 10.657 | 10.647 | 0.010 | 129178 | 20.0 | 4.46 | |

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\20230318-84498.b\GC18038.D

Injection Date: 19-Mar-2023 05:52:05

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-124759-B-1 MSD

Worklist Smp#: 38

Client ID:

Injection Vol: 1.0 ul

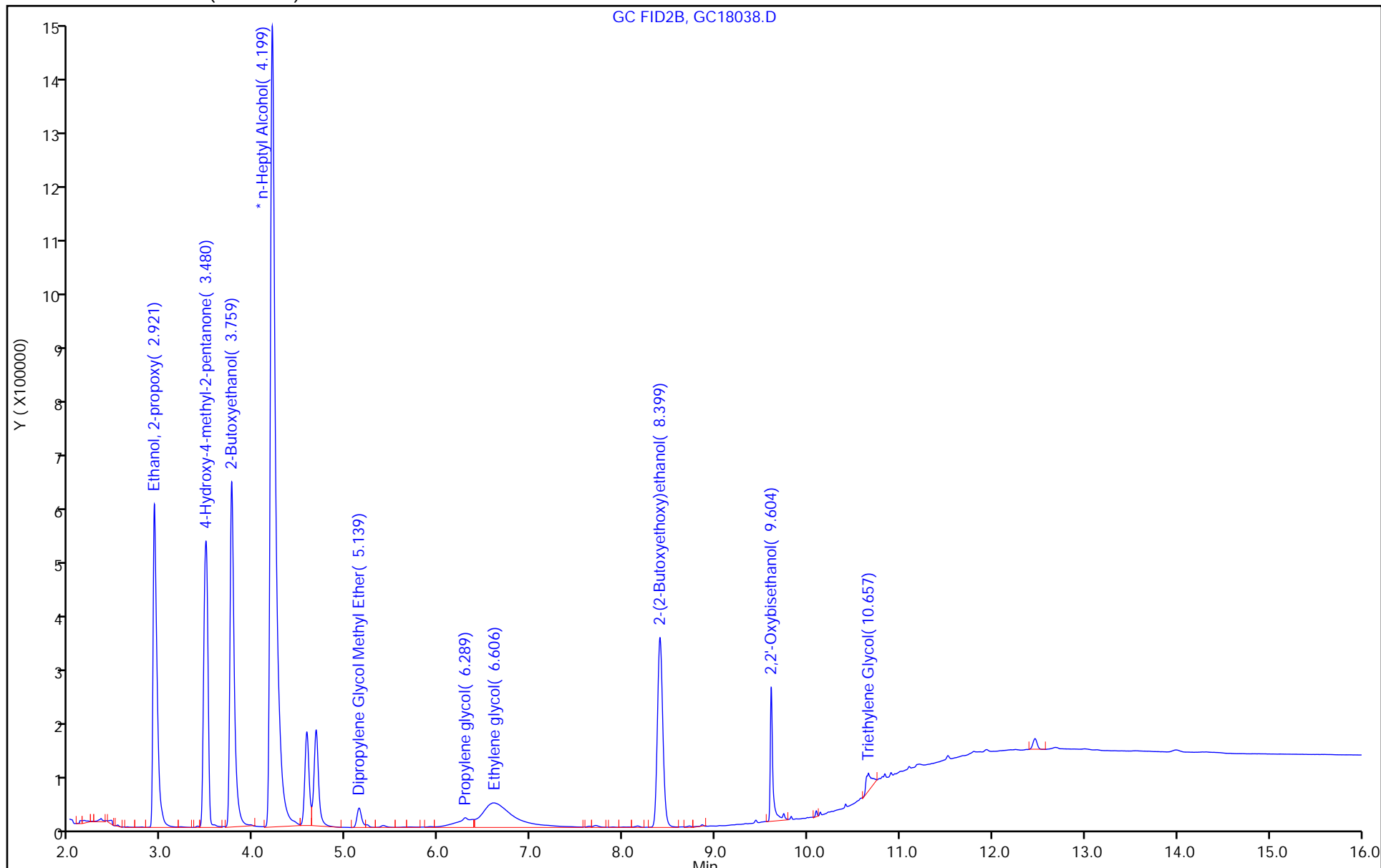
Dil. Factor: 1.0000

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.: 580-124759-1

SDG No.: _____

Instrument ID: CVGG2 Start Date: 03/18/2023 17:04

Analysis Batch Number: 768387 End Date: 03/19/2023 07:01

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|--------------------------|----------------------------------|------------------|-----------------|-------------|----------------------|
| IC 680-768387/5 | | 03/18/2023 17:04 | 1 | GC18005.D | J&W DB WAX 0.45 (mm) |
| IC 680-768387/6 | | 03/18/2023 17:27 | 1 | GC18006.D | J&W DB WAX 0.45 (mm) |
| IC 680-768387/7 | | 03/18/2023 17:51 | 1 | GC18007.D | J&W DB WAX 0.45 (mm) |
| ICIS 680-768387/8 | | 03/18/2023 18:14 | 1 | GC18008.D | J&W DB WAX 0.45 (mm) |
| IC 680-768387/9 | | 03/18/2023 18:37 | 1 | GC18009.D | J&W DB WAX 0.45 (mm) |
| IC 680-768387/10 | | 03/18/2023 19:01 | 1 | GC18010.D | J&W DB WAX 0.45 (mm) |
| IC 680-768387/11 | | 03/18/2023 19:24 | 1 | GC18011.D | J&W DB WAX 0.45 (mm) |
| ICV 680-768387/12 CCV | | 03/18/2023 19:47 | 1 | GC18012.D | J&W DB WAX 0.45 (mm) |
| LCS 680-768387/13 | | 03/18/2023 20:11 | 1 | GC18013.D | J&W DB WAX 0.45 (mm) |
| LCSD 680-768387/14 | | 03/18/2023 20:34 | 1 | GC18014.D | J&W DB WAX 0.45 (mm) |
| MB 680-768387/17 | | 03/18/2023 21:44 | 1 | GC18017.D | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 03/18/2023 22:07 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 03/18/2023 22:30 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 03/18/2023 22:53 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 03/18/2023 23:17 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 03/18/2023 23:40 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 03/19/2023 00:03 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 03/19/2023 00:26 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 03/19/2023 00:50 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 03/19/2023 01:13 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 03/19/2023 01:36 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 03/19/2023 01:59 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 03/19/2023 02:23 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 03/19/2023 02:46 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 03/19/2023 03:09 | 1 | | J&W DB WAX 0.45 (mm) |
| CCV 680-768387/33 | | 03/19/2023 03:56 | 1 | GC18033.D | J&W DB WAX 0.45 (mm) |
| 580-124759-1 | AF-RHMW04-WGN01LF-230 3W2 | 03/19/2023 05:05 | 1 | GC18036.D | J&W DB WAX 0.45 (mm) |
| 580-124759-1 MS | AF-RHMW04-WGN01LF-230 3W2 MS | 03/19/2023 05:28 | 1 | GC18037.D | J&W DB WAX 0.45 (mm) |
| 580-124759-1 MSD | AF-RHMW04-WGN01LF-230 3W2 MSD | 03/19/2023 05:52 | 1 | GC18038.D | J&W DB WAX 0.45 (mm) |
| 580-124759-2 | AF-RHMW06-WGN01LF-230 3W2 | 03/19/2023 06:15 | 1 | GC18039.D | J&W DB WAX 0.45 (mm) |
| CCV 680-768387/41 | | 03/19/2023 07:01 | 1 | GC18041.D | J&W DB WAX 0.45 (mm) |

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah Job No.: 580-124759-1

SDG No.: _____

Batch Number: 768387 Batch Start Date: 03/18/23 17:04 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 680-768387/5 | | 8015C GLY | | 1 mL | 50 uL | 10 uL | | | |
| IC 680-768387/6 | | 8015C GLY | | 1 mL | 40 uL | 10 uL | | | |
| IC 680-768387/7 | | 8015C GLY | | 1 mL | 25 uL | 10 uL | | | |
| ICIS 680-768387/8 | | 8015C GLY | | 1 mL | 10 uL | 10 uL | | | |
| IC 680-768387/9 | | 8015C GLY | | 1 mL | 5 uL | 10 uL | | | |
| IC 680-768387/10 | | 8015C GLY | | 1 mL | 2.5 uL | 10 uL | | | |
| IC 680-768387/11 | | 8015C GLY | | 1 mL | 1 uL | 10 uL | | | |
| ICV 680-768387/12 CCV | | 8015C GLY | | 1 mL | | 10 uL | 10 uL | | |
| LCS 680-768387/13 | | 8015C GLY | | 1 mL | | 10 uL | 10 uL | | |
| LCSD 680-768387/14 | | 8015C GLY | | 1 mL | | 10 uL | 10 uL | | |
| MB 680-768387/17 | | 8015C GLY | | 1 mL | | 10 uL | | | |
| CCV 680-768387/33 | | 8015C GLY | | 1 mL | 10 uL | 10 uL | | | |
| 580-124759-B-1 | AF-RHMW04-WGN01L F-2303W2 | 8015C GLY | T | 1 mL | | 10 uL | | | |
| 580-124759-B-1 MS | AF-RHMW04-WGN01L F-2303W2 | 8015C GLY | T | 1 mL | | 10 uL | 10 uL | | |
| 580-124759-B-1 MSD | AF-RHMW04-WGN01L F-2303W2 | 8015C GLY | T | 1 mL | | 10 uL | 10 uL | | |
| 580-124759-B-2 | AF-RHMW06-WGN01L F-2303W2 | 8015C GLY | T | 1 mL | | 10 uL | | | |
| CCV 680-768387/41 | | 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>Olivia Shively</u> | Lab P#: | Carrier Tracking No(s): | COC No: |
| Client Contact: | | Phone: <u>856-938-7710</u> | Elaine Walker | FedEx | 2303W2AFE08 |
| Company: AECOM | | PO #: | E-Mail: <u>M.Elaine.Walker@EurofinsET.com</u> | State of Origin: Hawaii | Page 1 of 1 |
| Address: 1001 Bishop St. Suite 1600 | | Due Date Requested: see subcontract | Job #: | | |
| City: Honolulu | | TAT Requested (days): Rush - ASAP | Analysis Requested | | |
| State, Zip: Hawaii 96813 | | Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Total Number of Containers | | |
| Phone: 808-954-4512 / 770-331-0794 | | PO #: | Preservation Codes: | | |
| Email: <u>Watson.Tanji@aecom.com</u> / <u>Mark.Kromis@aecom.com</u> | | WO #: | M - Hexane N - None O - AshNaO2 P - Na2SO4 Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - DI Water W - pH 4-5 X - EDTA L - EDA Other: | | |
| Project Name: CTO N6274223F0104 | | Project #: | Special Instructions/Note: | | |
| Site: RHSF | | SSOW#: | 8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol | | |
| Sample Identification | | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (Water, Solid, Swab, Soil, Air) |
| AF-RHMW04-WGN01LF-2303W2 | | 3/13/23 | 1610 | G | W |
| Possible Hazard Identification | | Field Filtered Sample (Yes or No) | Form MSMSD (Yes or No) | Return To Client | Disposal By Lab |
| <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 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Deliverable Requested: I, II, III, IV, Other (specify) | | Preservation Code: | Archive For | Months | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) |
| 4 report standard TAT. AECOM.EQuis.EDD. | | | | | |
| Empty Kit Relinquished by: | | Date: | Special Instructions/QC Requirements: DOD QSM project. | | |
| Relinquished by: <u>Olivia Shively AECOM</u> | | 3/13/23 | Date/Time: 3/13/23 1340 | | |
| Relinquished by: <u>James Mason</u> | | 3/13/23 | Date/Time: 3/13/23 1045 | | |
| Relinquished by: | | | Date/Time: | | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: <u>51/5.1</u> | |

Chain of Custody Record

| | | | |
|---|--|---|--|
| Client Information Client Contact: <u>Quay Shively</u> Phone: <u>856-438-7710</u> Lab PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com | | Carrier Tracking No(s): <u>2303W2AFE09</u> State of Origin: <u>Hawaii</u> Page: <u>Page 1 of 1</u> Job #: | |
| Due Date Requested: <u>see subcontract</u> TAT Requested (days): <u>Rush - ASAP</u> Compliance Project: <u>Yes</u> <input type="checkbox"/> <u>No</u> <input type="checkbox"/> PO #: <u> </u> WO #: <u> </u> Project #: <u>60697810</u> SSOW#: <u> </u> Email: <u>Watson.Tanji@aeom.com / Mark.Kromis@aeom.com</u> Project Name: <u>CTO N6274223F0104</u> Site: <u>RHSE</u> | | Analysis Requested Total Number of Containers: <u>3</u> Perform MS/MSD (Yes or No): <u>X</u> Field Filled Sample (Yes or No): <u>X</u> 8015C_DAL_GL_D5f-2-(2-butoxyethoxy)-ethanol: <u>A</u> | |
| Address: <u>1001 Bishop St. Suite 1600</u> City: <u>Honolulu</u> State, Zip: <u>Hawaii 96813</u> Phone: <u>808-954-4512 / 770-331-0794</u> Email: <u>Watson.Tanji@aeom.com / Mark.Kromis@aeom.com</u> Project Name: <u>CTO N6274223F0104</u> Site: <u>RHSE</u> | | Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: | |
| Sample Identification AF-RHMW06-WGN01LF-2303W2 Sample Date: <u>3/13/23</u> Sample Time: <u>1225</u> Sample Type (C=comp, G=grab): <u>G</u> Matrix (W=water, S=solid, O=other, A=air): <u>W</u> Preservation Code: <u>W</u> | | Special Instructions/Note: <u>3/13/23</u> | |
| 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 | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | |
| Deliverable Requested: I, II, III, IV, Other (specify) _____ Prelim data (Level 1 or 2) - see TAT above. DoD Stage _____ 4. report standard IAT_AECOM EQUS EDD | | Method of Shipment: _____ Date: _____ Time: _____ | |
| Relinquished by: <u>Quay Shively</u> Relinquished by: <u>James Mason</u> Relinquished by: _____ | | Received by: <u>James Mason</u> Received by: _____ Received by: _____ | |
| Date/Time: <u>3/13/23</u> Date/Time: <u>3/13/23</u> Date/Time: _____ | | Date/Time: <u>3/13/23</u> Date/Time: <u>3/15/23</u> Date/Time: _____ | |
| Company: <u>AECOM</u> Address: <u>1001 Bishop St. Suite 1600</u> City: <u>Honolulu</u> State, Zip: <u>Hawaii 96813</u> Phone: <u>808-954-4512 / 770-331-0794</u> Email: <u>Watson.Tanji@aeom.com / Mark.Kromis@aeom.com</u> Project Name: <u>CTO N6274223F0104</u> Site: <u>RHSE</u> | | Company: <u>AECOM</u> Company: <u>AECOM</u> Company: _____ | |
| Custody Seals Intact: <u>Yes</u> <input type="checkbox"/> <u>No</u> <input type="checkbox"/> Custody Seal No.: _____ | | Cooler Temperature(s) °C and Other Remarks: <u>5/15.1</u> | |

Chain of Custody Record

| | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|---|--|---|--|--|--|------------------------------|--|--|--|-----------------------------------|--|----------------------------|--|----------------------------|--|
| Client Information Client Contact | | Sample: <i>Bluing Shirey</i> Phone: <i>856-438-7710</i> | | Lab PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com | | Carrier Tracking No(s): FedEx State of Origin: Hawaii | | COC No: 2303W2AFE09 Page: Page 1 of 1 | | | | | | | | | | | |
| Company: AECOM 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) Project Name: CTO N6274223F0104 Site: RHSF | | PWSID: | | Analysis Requested | | | | Job#: | | | | | | | | | | | |
| Due Date Requested: see subcontract TAT Requested (days): Rush - ASAP Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: WO #: Project #: 60697810 SSOW#: | | 8015C_D41_GL_D5/ 2-(2-butoxyethoxy)-ethanol | | <i>OK</i> <i>3/13/23</i> | | | | Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other: | | | | | | | | | | | |
| Sample Identification | | Sample Date | | | | | | Sample Time | | Sample Type (C=comp, G=grab) | | Matrix (W=water, S=soil, O=organic, A=air) | | Field Filtered Sample (Yes or No) | | Total Number of Containers | | Special Instructions/Note: | |
| AF-RH MW06-WGN01LF-2303W2 | | 3/13/23 | | | | | | 1225 | | G | | W | | N N X | | 3 | | | |
| 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) <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 EQ/IS EDD | | | | | | Special Instructions/QC Requirements: DOD QSM project. | | | | | | | |
| Empty Kit Relinquished by: | | Date: | | Time: | | Method of Shipment | | | | | | | | | | | | | |
| Relinquished by: <i>Bluing Shirey</i> | | Date/Time: <i>3/13/23 1340</i> | | Company: AECOM | | Received by: <i>James Mason</i> | | Date/Time: <i>3/13/23 1340</i> | | Company: AECOM | | | | | | | | | |
| Relinquished by: <i>James Mason</i> | | Date/Time: <i>3/13/23 1400</i> | | Company: AECOM | | Received by: <i>[Signature]</i> | | Date/Time: <i>3/15/23 1045</i> | | 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(s) °C and Other Remarks: <i>5.1/5.1</i> | | | | | | | | | | | | | | | |

Ver: 01/16/2019

Chain of Custody Record

| | | | | | | | |
|--|--|---|--|---|--|---|--|
| Client Information | | Sampler: Olivia Shively | | Lab Piv: Elaine Walker | | Carrier Tracking No(s): 2303W2AFE08 | |
| Client Contact: | | Phone: 856-938-7710 | | E-Mail: M.Elaine.Walker@EurofinsET.com | | Page: Page 1 of 1 | |
| Company: AECOM | | Address: 1001 Bishop St. Suite 1600 | | City: Honolulu | | State of Origin: Hawaii | |
| City: Honolulu | | State, Zip: Hawaii 96813 | | Phone: 808-954-4512 / 770-331-0794 | | Job #: | |
| Email: watson.tanji@ae.com | | Project Name: CTO N6274223F0104 | | Site: RHSF | | Preservation Codes: | |
| Project #: 60697810 | | Sample Date: 3/13/23 | | Sample Time: 1610 | | 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 | |
| Site: RHSF | | Sample Type: G | | Matrix: W | | 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) | |
| Sample Identification | | AF-RHMW04-WGN01LF-2303W2 | | Sample Date: 3/13/23 | | Sample Time: 1610 | |
| 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 | | Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> | | Field Filled Sample (Yes or No) <input checked="" type="checkbox"/> | |
| Deliverable Requested I, II, III, IV, Other (specify) | | 4 report standard TAT - AECOM EQUIS EDD | | Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> | | Total Number of Containers <input checked="" type="checkbox"/> | |
| Empty Kit Relinquished by | | Olivia Shively / AECOM | | Date: 3/13/23 | | Date: 3/13/23 | |
| Relinquished by | | James Pearson | | Date: 3/13/23 | | Date: 3/13/23 | |
| Relinquished by | | James Pearson | | Date: 3/13/23 | | Date: 3/13/23 | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Seal No. 515.1 | | Cooler Temperature(s) °C and Other Remarks: | | Cooler Temperature(s) °C and Other Remarks: | |

Chain of Custody Record

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|--|--|--|--|--|------------------------------|
| Client Information | | Company: AECOM | Lab Pk#: Elaine Walker | Carrier Tracking No(s): 2303W2AFEAO8 | COC No.: 2303W2AFEAO8 |
| Client Contact: | | Address: 1001 Bishop St, Suite 1600 | E-Mail: M.Elaine.Walker@EurofinsET.com | State of Origin: Hawaii | Page: Page 1 of 1 |
| Company: AECOM | | City: Honolulu | Phone: 808-954-4512 / 770-331-0794 | Job #: | |
| Address: 1001 Bishop St, Suite 1600 | | State, Zip: Hawaii 96813 | Project Name: CTO N6274223F0104 | Analysis Requested | |
| City: Honolulu | | Phone: 808-954-4512 / 770-331-0794 | SSOW#: | Preservation Codes: | |
| State, Zip: Hawaii 96813 | | PO #: | | 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 X - EDTA Y - other (specify) Z - other (specify) Other: | |
| Due Date Requested see subcontract | | WO #: | Project #: 60697810 | Total Number of Containers | |
| TAT Requested (days): Rush - ASAP | | Compliance Project: Δ Yes Δ No | SSOW#: | 3 | |
| Sample Identification | | Sample Date: 3/13/23 | Sample Time: 1010 | Special Instructions/Note: | |
| AF-RHMW04-WGN01LF-2303W2 | Sample Type (C=Comp, G=grab): G | Sample Matrix (Hexane, Spirit, Other): W | Preservation Code: W | 580-124759 Chain of Custody | |
| Possible Hazard Identification | | Poison B: <input type="checkbox"/> | Skin Irritant: <input type="checkbox"/> | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | |
| Non-Hazard: <input type="checkbox"/> Flammable: <input type="checkbox"/> | | Unknown: <input type="checkbox"/> | Radiological: <input type="checkbox"/> | <input type="checkbox"/> Return To Client <input 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 IAT_AECOM.EQUIS.EDD. | | | |
| Empty Kit Relinquished by | | Date: 3/13/23 | Time: 1340 | Method of Shipment: | |
| Relinquished by: Olivia Shively / AECOM | | Date/Time: 3/13/23 | Company: AECOM | Received by: James Mason | |
| Relinquished by: James Pearson | | Date/Time: 3/13/23 | Company: AECOM | Received by: [Signature] | |
| Relinquished by: | | Date/Time: | Company: | Received by: | |
| Custody Seals Intact: Δ Yes Δ No | | Custody Seal No | | Cooler Temperature(s) °C and Other Remarks: 5/15.1 | |

Chain of Custody Record

| | | | | | | | |
|---|--|--|--|---|--|---|--|
| Client Information | | Company: AECOM | | Lab PM: Elaine Walker | | COC No: 2303W2AFEAO9 | |
| Client Contact: | | Phone: 850-438-7710 | | E-Mail: M.Elaine.Walker@EurofinsET.com | | Page: Page 1 of 1 | |
| Address: 1001 Bishop St. Suite 1600 | | City: Honolulu | | State: HI | | Job #: 2303W2AFEAO9 | |
| State: HI | | Zip: 96813 | | Phone: 808-954-4512 / 770-331-0794 | | Project #: 60697810 | |
| Email: Watson.Tanji@aeom.com / Mark.Kromis@aeom.com | | Project Name: CTO N6274223F0104 | | Site: RHSE | | SSOW#: | |
| Due Date Requested: see subcontract | | TAT Requested (days): Rush - ASAP | | Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | PO #: | |
| Sample ID: SH069 | | Sample Date: 3/13/23 | | Sample Time: 1225 | | Sample Type: G | |
| Sample Matrix: W=Water, S=Solid, O=Organic, D=Inorganic, A=Asphalt | | Sample Type: G=Comp, C=Grab | | Preservation Code: W | | Matrix: W=Water, S=Solid, O=Organic, D=Inorganic, A=Asphalt | |
| Sample Identification: AF-RHMW06-WGN01F-2303W2 | | Sample Date: 3/13/23 | | Sample Time: 1225 | | Sample Type: G | |
| 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 | | Deliverable Requested: I II III IV Other (specify) | | Empty Kit Relinquished by: | | Relinquished by: Shinya Shindoy | |
| Relinquished by: James Mason | | Date/Time: 3/13/23 1340 | | Company: AECOM | | Date/Time: 3/13/23 1340 | |
| Relinquished by: James Mason | | Date/Time: 3/13/23 1400 | | Company: AECOM | | Date/Time: 3/15/23 1045 | |
| Relinquished by: | | Date/Time: | | Company: | | Date/Time: | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: 5.1/5.1 | | Ver: 01/16/2019 | |

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-124759-1

Login Number: 124759
List Number: 2
Creator: Johnson, Corey M

List Source: Eurofins Savannah
List Creation: 03/17/23 08:07 PM

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