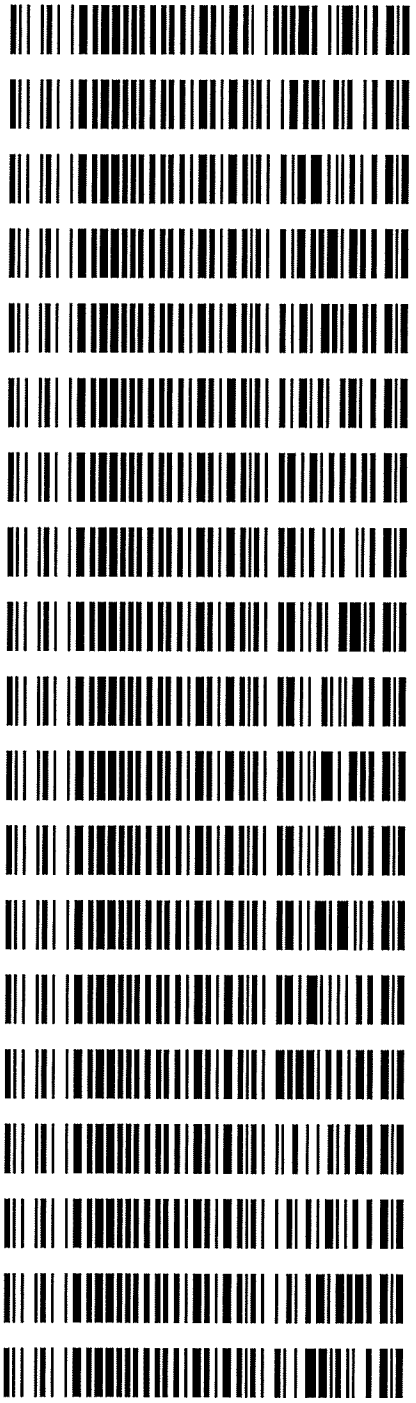
AS
8/13/2021

**Worklist: 5180**

| LAB_CASE | ITEM | ITEM_TYPE | DESCRIPTION |
|---|---|---|---|
| P2021-2440 | 1 | BCK | Alcohol Analysis |
| P2021-2454 | 1 | BCK | Alcohol Analysis |
| P2021-2476 | 1 | BCK | Alcohol Analysis |
| P2021-2476 | 2 | BCK | Alcohol Analysis |
| P2021-2477 | 1 | BCK | Alcohol Analysis |
| P2021-2485 | 1 | BCK | Alcohol Analysis |
| P2021-2488 | 1 | BCK | Alcohol Analysis |
| P2021-2489 | 1 | BCK | Alcohol Analysis |
| P2021-2494 | 1 | BCK | Alcohol Analysis |
| P2021-2495 | 1 | BCK | Alcohol Analysis |
| P2021-2498 | 1 | BCK | Alcohol Analysis |
| P2021-2499 | 1 | BCK | Alcohol Analysis |
| P2021-2500 | 1 | BCK | Alcohol Analysis |
| P2021-2501 | 1 | BCK | Alcohol Analysis |
| P2021-2522 | 3 | BCK | Alcohol Analysis |
| P2021-2545 | 1 | BCK | Alcohol Analysis |
| P2021-2552 | 1 | BCK | Alcohol Analysis |
| P2021-2553 | 1 | BCK | Alcohol Analysis |
| P2021-2572 | 1 | BCK | Alcohol Analysis |



## Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

*Analytical Method(s): 1.0*

*Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number: ML600GB9897*

**Volatiles Quality Assurance Controls** **Run Date(s): 08/13/2021**

REVIEWED
By Galina Giso at 3:09 pm, Aug 17, 2021

| Control level | Expiration | Lot # | Target Value | Acceptable Range | Overall Results |
|---|---|---|---|---|---|
| Level 1 | Jul-23 | 1907006 | 0.0764 | 0.0688-0.0840 | 0.0766 g/100cc |
| | | | | | 0.0788 g/100cc |
| | | | | | g/100cc |
| Level 2 | Jul-23 | 1907007 | 0.2170 | 0.1953-0.2387 | 0.2144 g/100cc |
| | | | | | g/100cc |
| | | | | | g/100cc |

| | | | | | |
|---|---|---|---|---|---|
| **Multi-Component mixture:** | | **Lot #** | FN06041902 | | ok |
| **Curve Fit:** | **Column 1** | 0.99976 | **Column2** | | 0.99954 |

**Ethanol Calibration Reference Material**

| Calibrator level | Target Value | Acceptable Range | Column 1 | Column 2 | Precision | Mean |
|---|---|---|---|---|---|---|
| 50 | 0.050 | 0.045 - 0.055 | 0.0523 | 0.0535 | 0.001 | 0.0529 |
| 100 | 0.100 | 0.090 - 0.110 | 0.1006 | 0.1006 | 0.0000 | 0.1006 |
| 200 | 0.200 | 0.180 - 0.220 | 0.1981 | 0.1971 | 0.001 | 0.1976 |
| 300 | 0.300 | 0.270 - 0.330 | 0.2962 | 0.2950 | 0.0012 | 0.2956 |
| 400 | 0.400 | 0.360 - 0.440 | | | 0 | #DIV/0! |
| 500 | 0.500 | 0.450 - 0.550 | 0.5026 | 0.5036 | 0.001 | 0.5031 |

**Aqueous Controls**

| Control level | Target Value | Acceptable Range | Overall Results |
|---|---|---|---|
| 80 | 0.080 | 0.076 - 0.084 | 0.082 g/100cc |

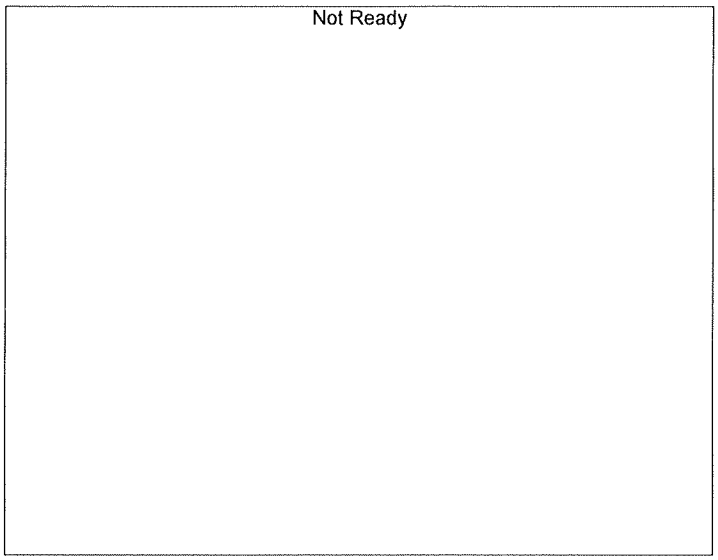
Revision: 2
Issue Date: 12/23/2019
Issuing Authority: Quality Manager

TS

# Calibration Table

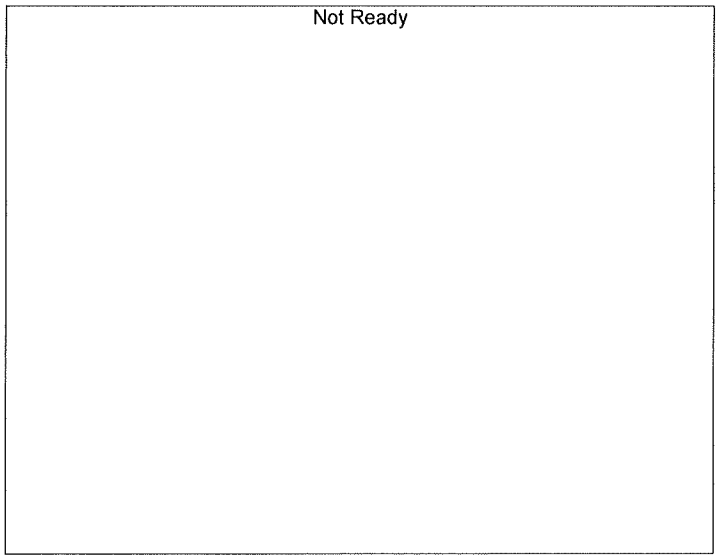
Laboratory: Pocatello
Instrument Name : GC2030-HS20

<<Data File>>
Method File :C:\LabSolutions\Data\2021\08-13-21_ts\ALCOHOL.gcm
Batch File :C:\LabSolutions\Data\2021\08-13-21_ts\08-13-21_ts_post.gcb
Date Acquired :8/13/2021 1:48:47 PM
Date Created :8/13/2021 1:46:11 PM
Date Modified :8/14/2021 6:55:47 AM




Name : METHANOL
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

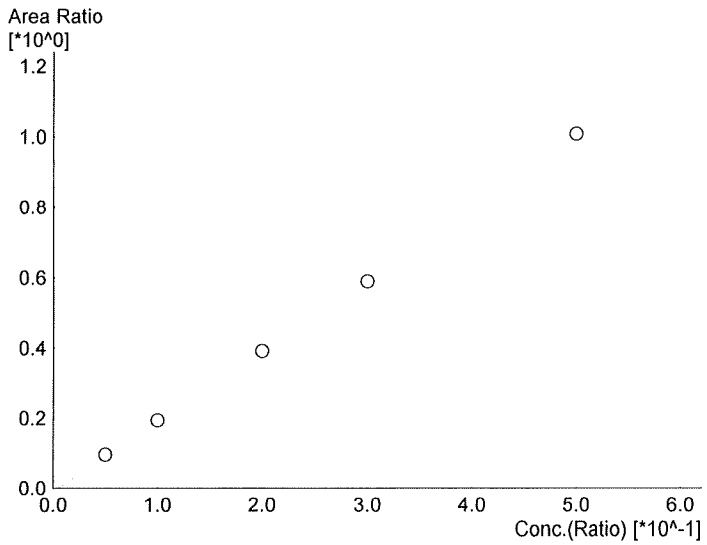
| # | Conc. | Area | Std. Conc. |
|---|---|---|---|




Name : ACETALDEHYDE
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

| # | Conc. | Area | Std. Conc. |
|---|---|---|---|

TS




Name : ETHANOL
Detector Name: FID1
Function : f(x)=2.02309*x-0.00997654
R^2 value= 0.9997601
FitType: Linear
ZeroThrough: Not Through

| # | Conc. | Area | Std. Conc. |
|---|---|---|---|
| 1 | 0.050 | 14812 | 0.0523 |
| 2 | 0.100 | 30710 | 0.1006 |
| 3 | 0.200 | 61429 | 0.1981 |
| 4 | 0.300 | 93313 | 0.2962 |
| 5 | 0.500 | 162407 | 0.5026 |

Not Ready

Name : ISOPROPYL ALCOHOL
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

| # | Conc. | Area | Std. Conc. |
|---|---|---|---|

Not Ready

Name : ACETONE
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

| # | Conc. | Area | Std. Conc. |
|---|---|---|---|

Not Ready

Name : DFE
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

| # | Conc. | Area | Std. Conc. |
|---|---|---|---|

Not Ready

Name : TFE
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

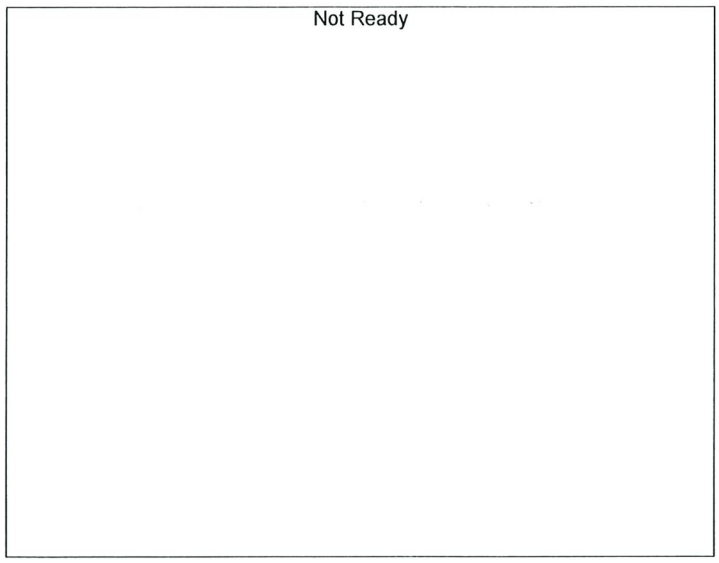
| # | Conc. | Area | Std. Conc. |
|---|---|---|---|

Not Ready

Name : ACETALDEHYDE
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

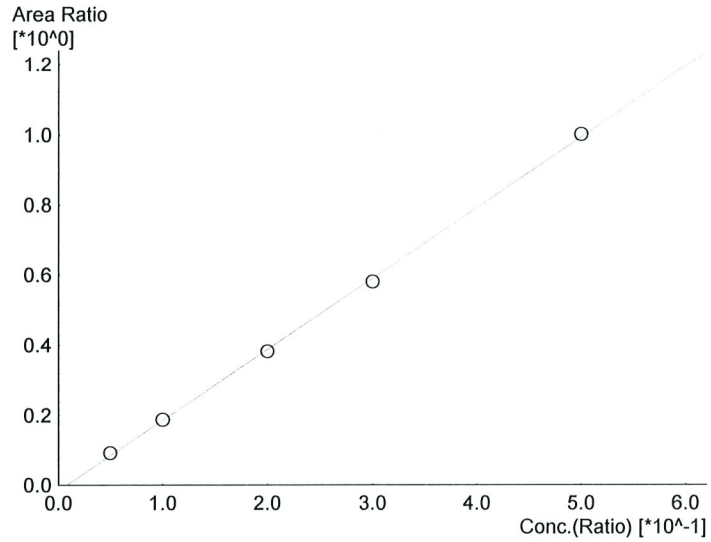
| # | Conc. | Area | Std. Conc. |
|---|---|---|---|

TS



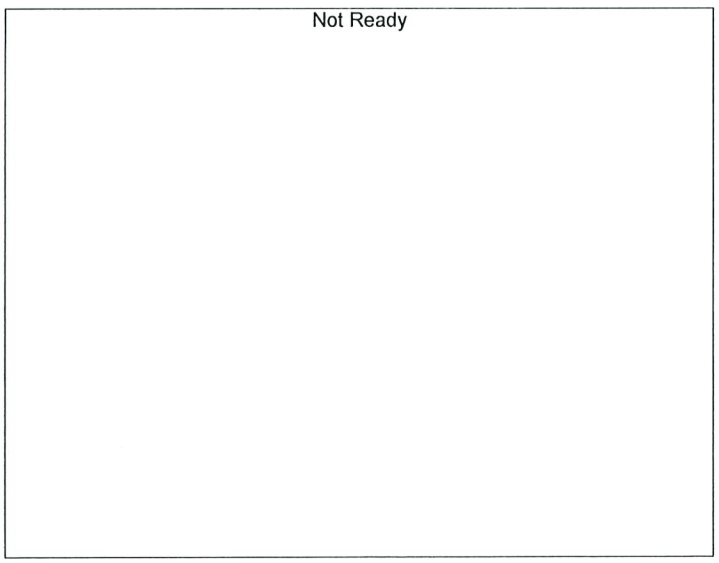

Name : METHANOL
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

| # | Conc. | Area | Std. Conc. |
|---|---|---|---|



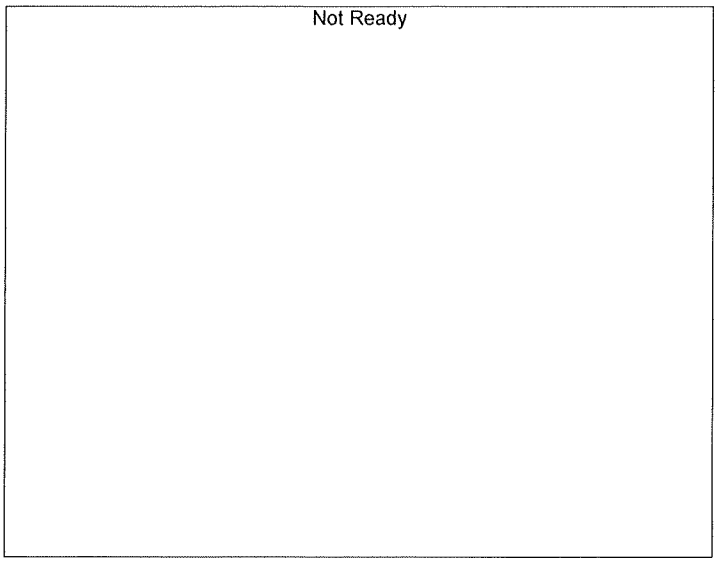

Name : ETHANOL
Detector Name: FID2
Function : f(x)=2.02277*x-0.0169827
R^2 value= 0.9995416
FitType: Linear
ZeroThrough: Not Through

| # | Conc. | Area | Std. Conc. |
|---|---|---|---|
| 1 | 0.050 | 15172 | 0.0535 |
| 2 | 0.100 | 31657 | 0.1006 |
| 3 | 0.200 | 64147 | 0.1971 |
| 4 | 0.300 | 97971 | 0.2950 |
| 5 | 0.500 | 171612 | 0.5036 |



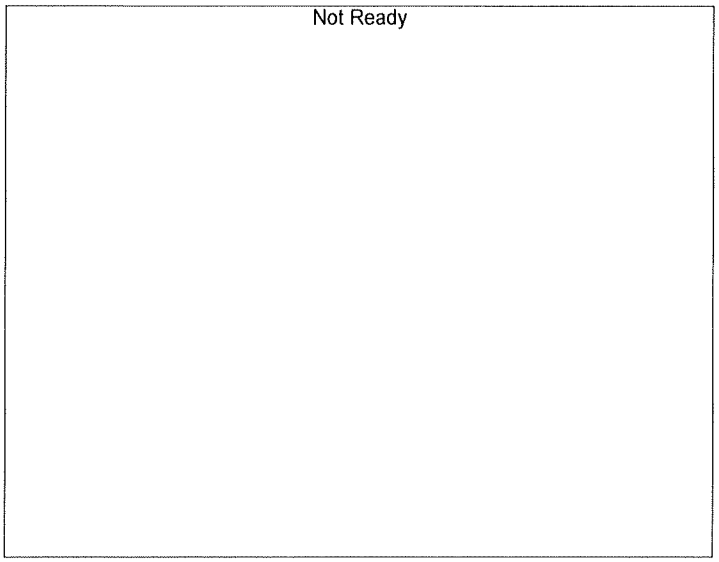

Name : ACETONE
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

| # | Conc. | Area | Std. Conc. |
|---|---|---|---|



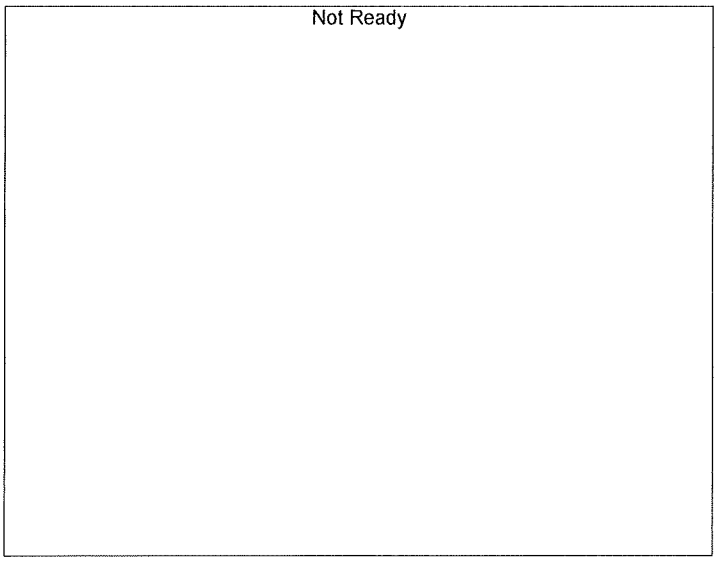

Name : ISOPROPYL ALCOHOL
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

| # | Conc. | Area | Std. Conc. |
|---|---|---|---|




Name : DFE
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

| # | Conc. | Area | Std. Conc. |
|---|---|---|---|

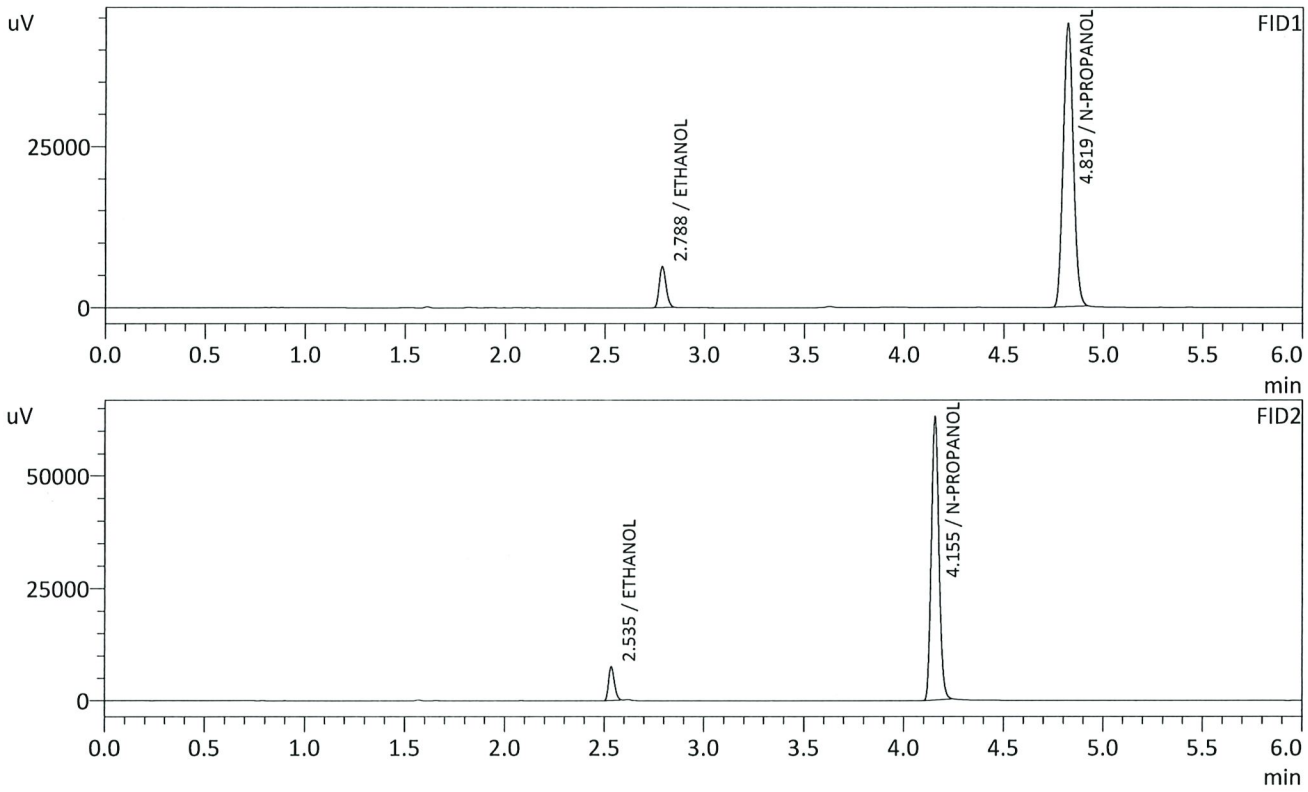



Name : TFE
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

| # | Conc. | Area | Std. Conc. |
|---|---|---|---|

15

| | |
|---|---|
| Sample Name | : 0.050 |
| Vial # | : 1 |
| Data Filename | : 0.050_8132021_001.gcd |
| Method Filename | : ALCOHOL.gcm |
| Batch Filename | : 08-13-21_ts_post.gcb |
| Date Acquired | : 8/13/2021 1:13:45 PM |
| Date Processed | : 8/14/2021 6:55:40 AM |




FID1

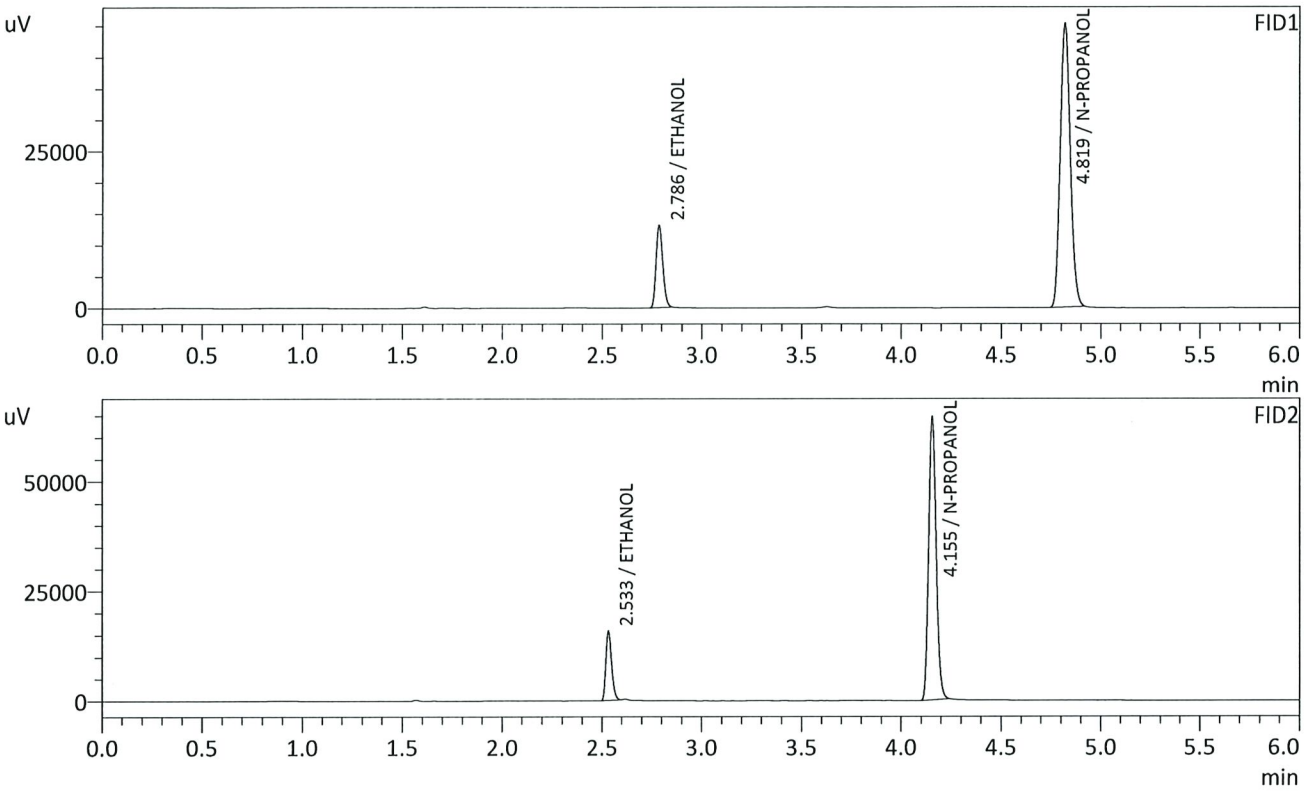
| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.0523 | g/100cc | 14812 | 6297 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 154438 | 43967 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.0535 | g/100cc | 15172 | 7434 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 166113 | 62888 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

15

Sample Name : 0.100
Vial # : 2
Data Filename : 0.100_8132021_002.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 08-13-21_ts_post.gcb
Date Acquired : 8/13/2021 1:22:24 PM
Date Processed : 8/14/2021 6:55:43 AM




FID1

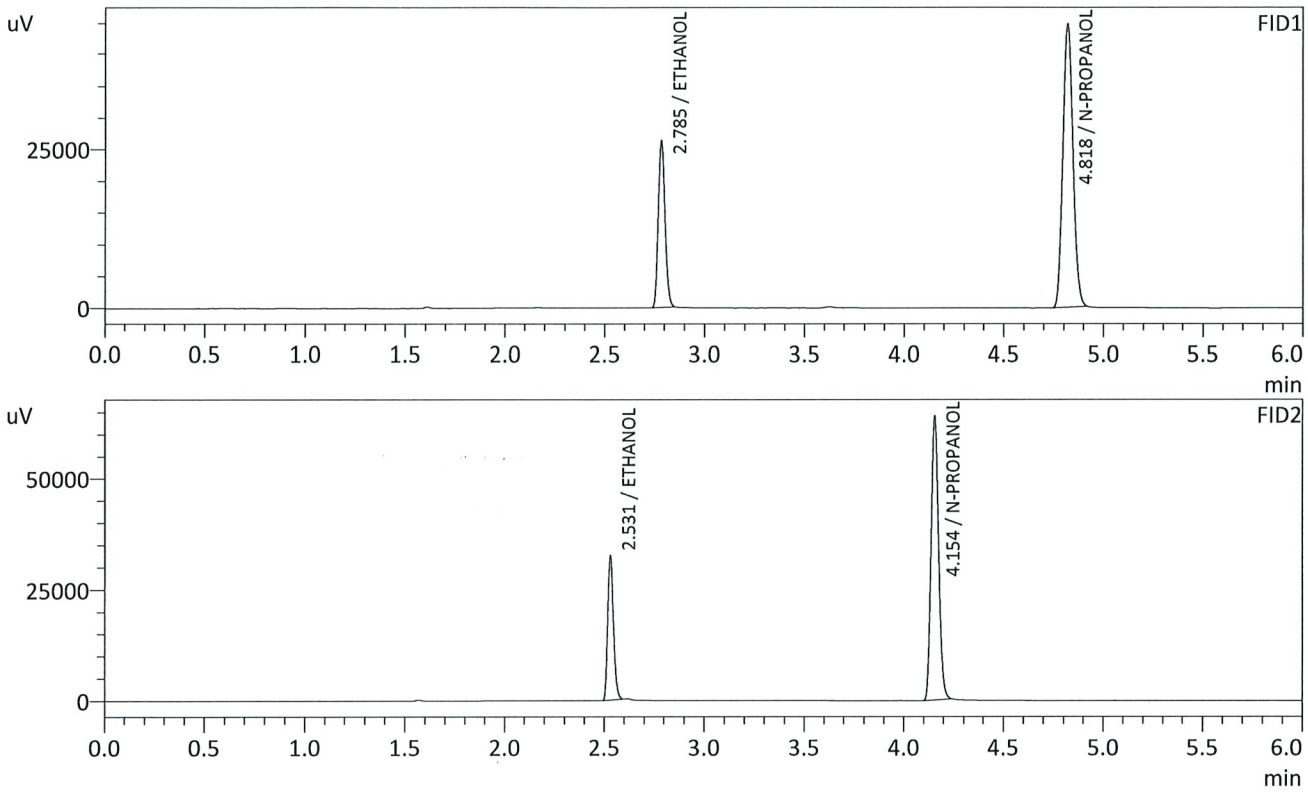
| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.1006 | g/100cc | 30710 | 12917 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 158550 | 45211 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.1006 | g/100cc | 31657 | 15750 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 169683 | 64366 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

TS

| | |
|---|---|
| Sample Name | : 0.200 |
| Vial # | : 3 |
| Data Filename | : 0.200_8132021_003.gcd |
| Method Filename | : ALCOHOL.gcm |
| Batch Filename | : 08-13-21_ts_post.gcb |
| Date Acquired | : 8/13/2021 1:31:09 PM |
| Date Processed | : 8/14/2021 6:55:44 AM |




FID1

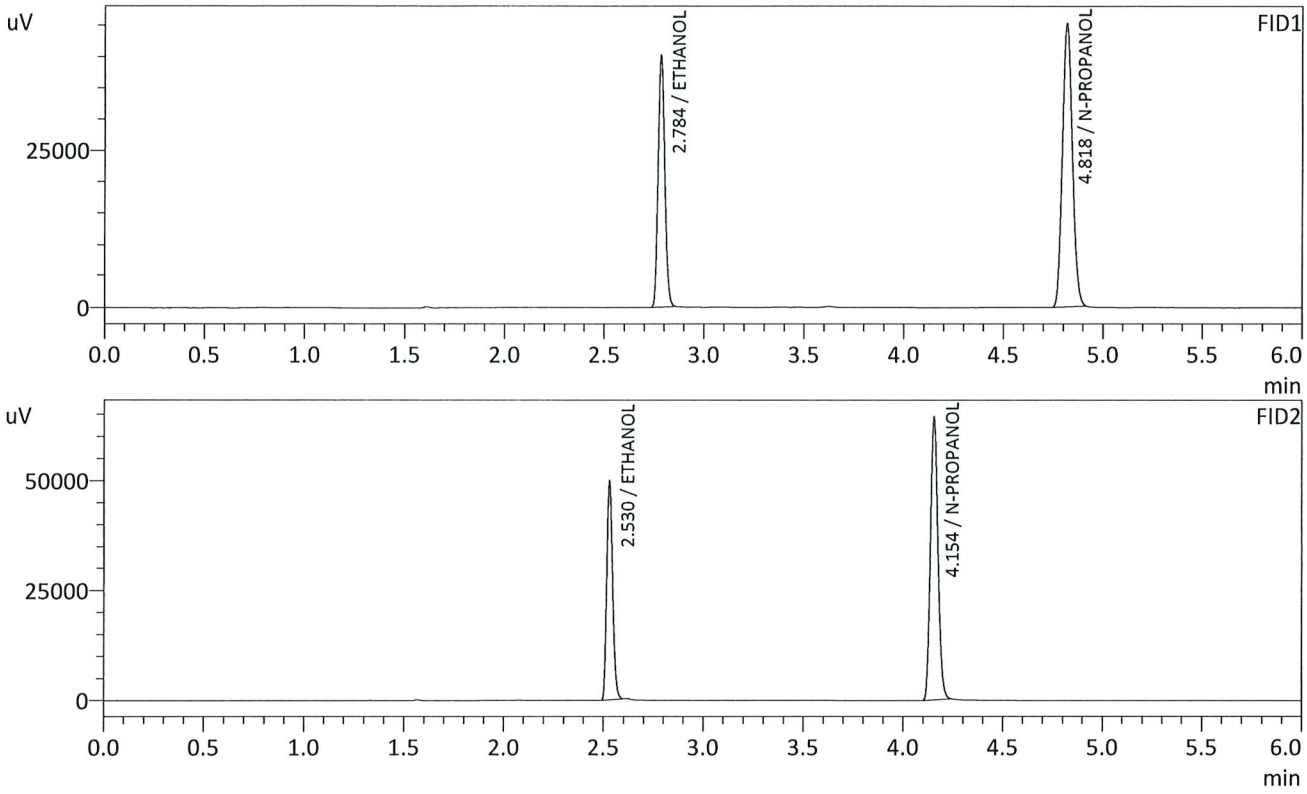
| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.1981 | g/100cc | 61429 | 26241 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 157184 | 44757 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.1971 | g/100cc | 64147 | 32202 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 168029 | 63558 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

15

| | |
|---|---|
| Sample Name | : 0.300 |
| Vial # | : 4 |
| Data Filename | : 0.300_8132021_004.gcd |
| Method Filename | : ALCOHOL.gcm |
| Batch Filename | : 08-13-21_ts_post.gcb |
| Date Acquired | : 8/13/2021 1:40:03 PM |
| Date Processed | : 8/14/2021 6:55:46 AM |




FID1

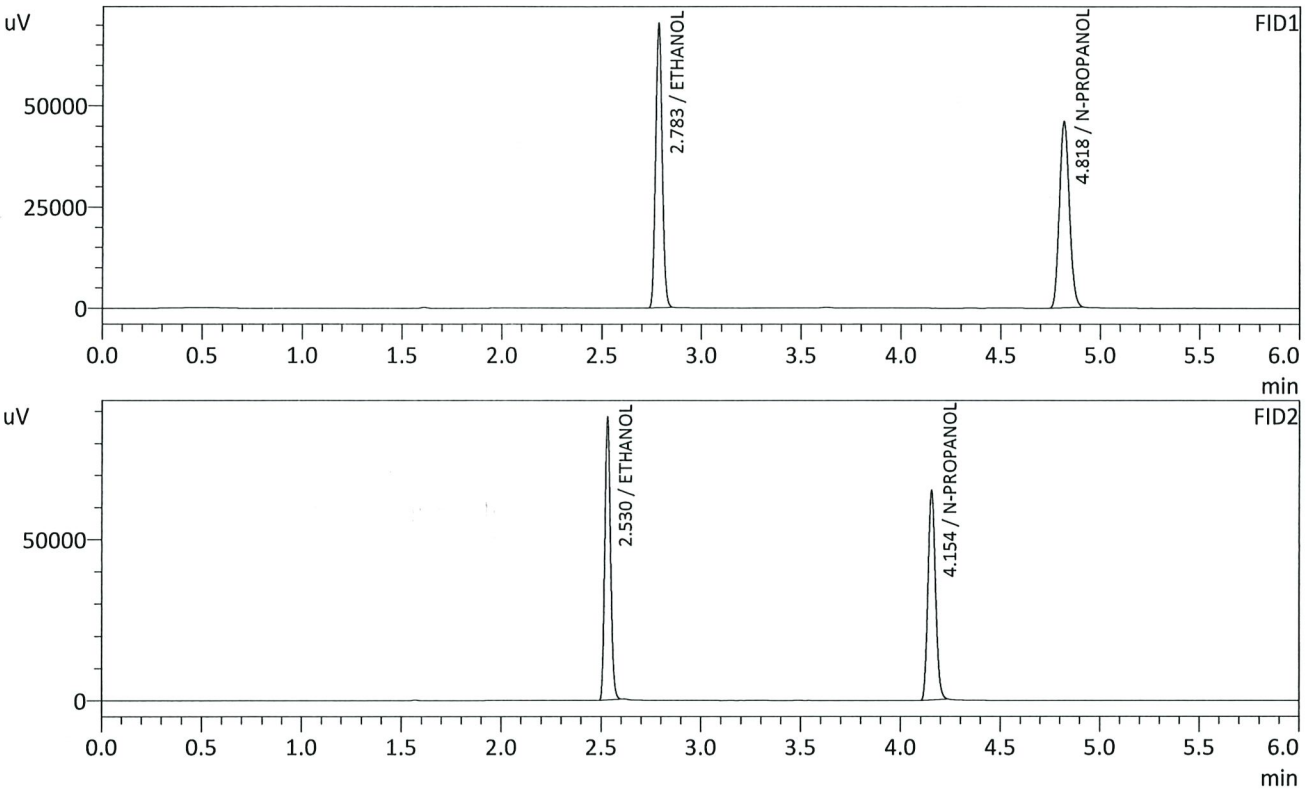
| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.2962 | g/100cc | 93313 | 40070 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 158338 | 45175 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.2950 | g/100cc | 97971 | 49063 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 168952 | 63908 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

15

Sample Name : 0.500
Vial # : 5
Data Filename : 0.500_8132021_005.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 08-13-21_ts_post.gcb
Date Acquired : 8/13/2021 1:48:47 PM
Date Processed : 8/14/2021 6:55:47 AM




FID1

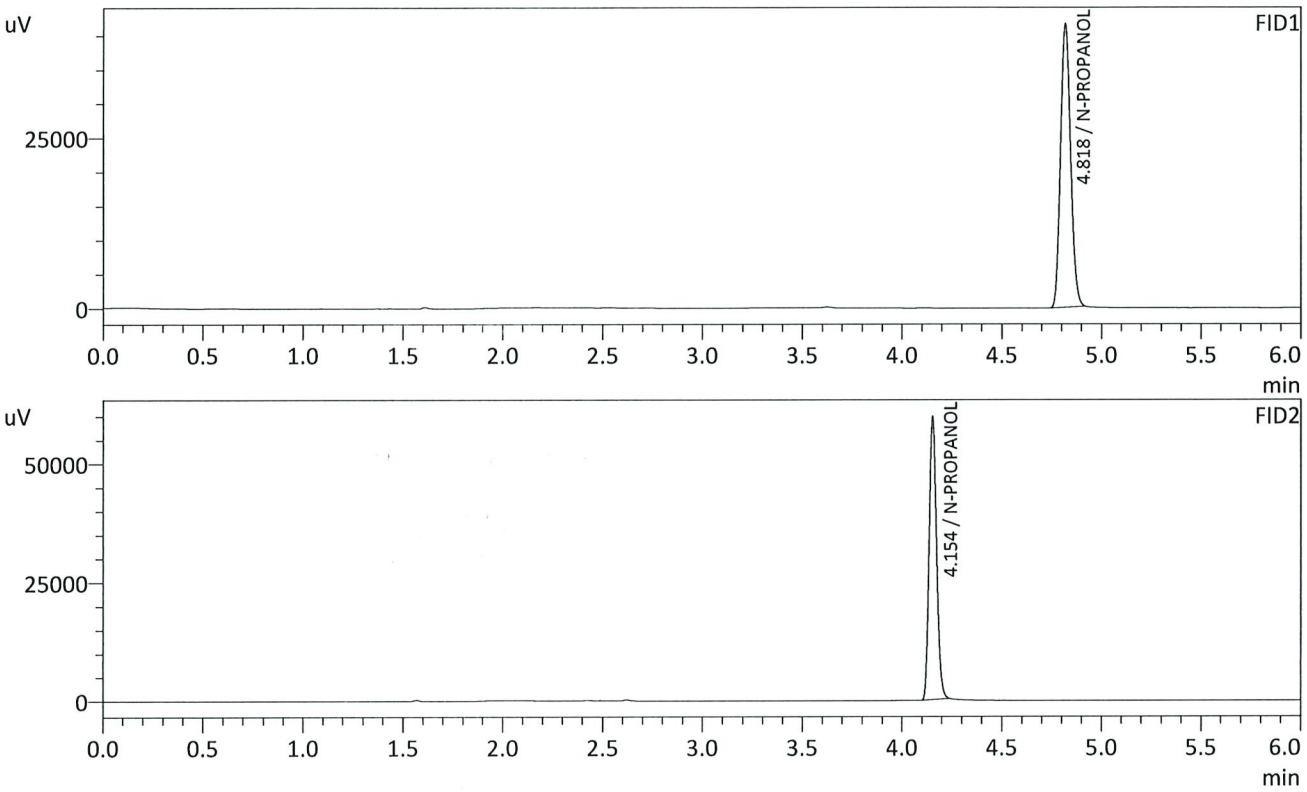
| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.5026 | g/100cc | 162407 | 69978 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 161290 | 45944 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.5036 | g/100cc | 171612 | 86256 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 171314 | 64749 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

TS

Sample Name : INT STD BLK 1
Vial # : 6
Data Filename : INT STD BLK 1_8132021_006.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 08-13-21_ts_post.gcb
Date Acquired : 8/13/2021 1:57:51 PM
Date Processed : 8/14/2021 6:55:50 AM




FID1

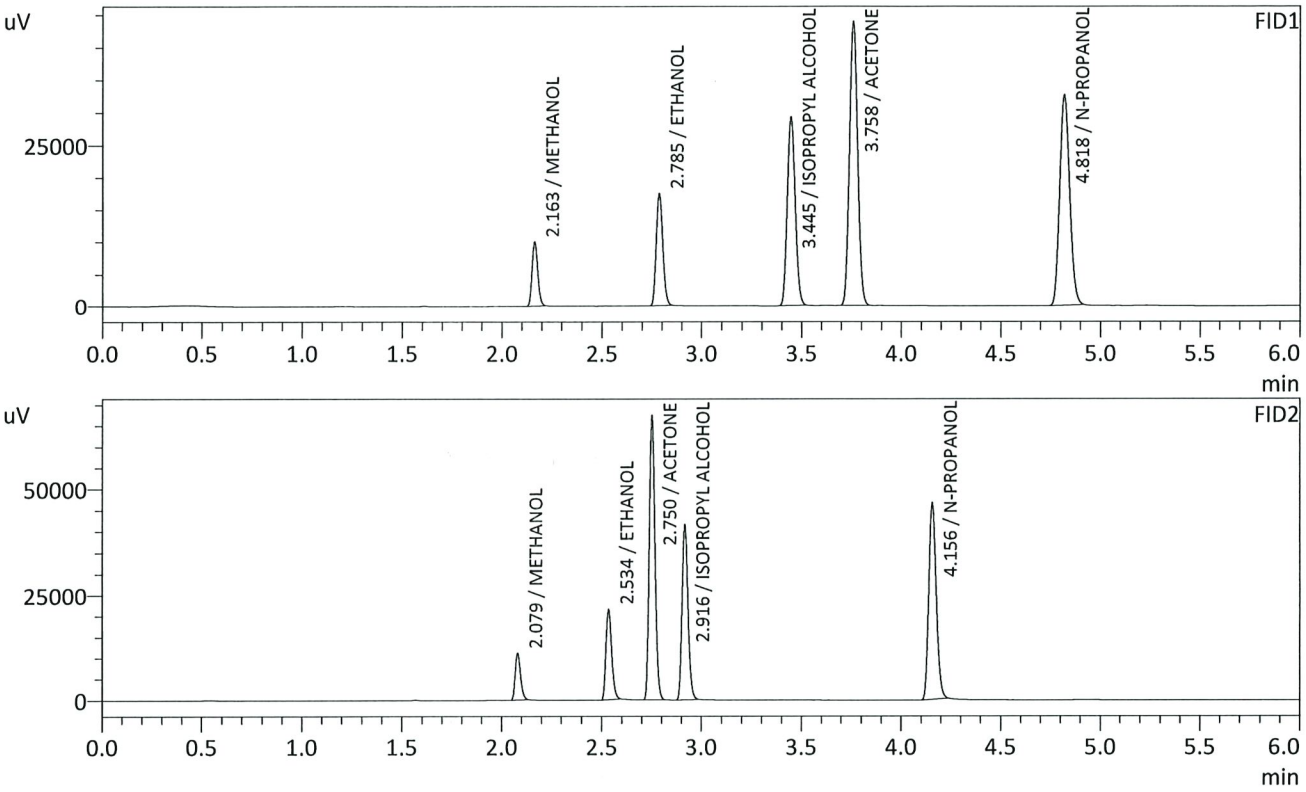
| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 145900 | 41566 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 156877 | 59181 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

TS

Sample Name : MULTI-COMP MIX
Vial # : 7
Data Filename : MULTI-COMP MIX_8132021_007.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 08-13-21_ts_post.gcb
Date Acquired : 8/13/2021 2:06:18 PM
Date Processed : 8/14/2021 6:55:51 AM




FID1

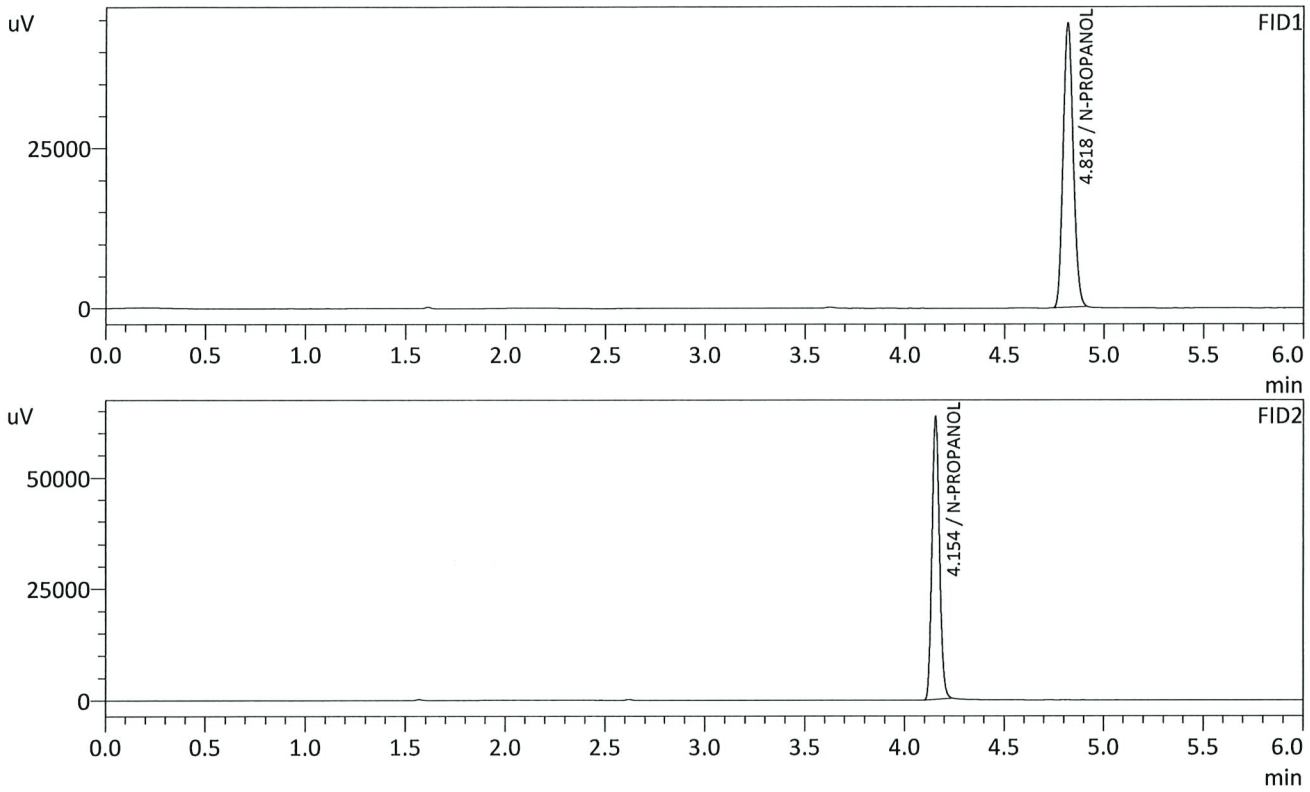
| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | 0.0000 | g/100cc | 20006 | 9952 |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.1802 | g/100cc | 40243 | 17346 |
| ISOPROPYL ALCOHOL | 0.0000 | g/100cc | 81279 | 29123 |
| ACETONE | 0.0000 | g/100cc | 124290 | 43705 |
| N-PROPANOL | 0.0000 | g/100cc | 113489 | 32591 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | 0.0000 | g/100cc | 20589 | 11057 |
| ETHANOL | 0.1789 | g/100cc | 42091 | 21208 |
| ACETONE | 0.0000 | g/100cc | 132907 | 66701 |
| ISOPROPYL ALCOHOL | 0.0000 | g/100cc | 86389 | 41174 |
| N-PROPANOL | 0.0000 | g/100cc | 122013 | 46607 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

15

Sample Name : INT STD BLK 2
Vial # : 8
Data Filename : INT STD BLK 2_8132021_008.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 08-13-21_ts_post.gcb
Date Acquired : 8/13/2021 2:15:25 PM
Date Processed : 8/14/2021 6:55:53 AM




FID1

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 155133 | 44315 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 166948 | 63145 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

TS

# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: QC 1-1** **Analysis Date(s): 08/13/2021**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Sample A-B Difference | Over-all Mean |
|---|---|---|---|---|---|---|
| Sample Results | 0.0763 | 0.0767 | 0.0004 | 0.0765 | 0.0002 | 0.0766 |
| (g/100cc) | 0.0768 | 0.0767 | 0.0001 | 0.0767 | | |

**Analysis Method**

**Refer to Blood Alcohol Method #1**

**Instrument Information** *Instrument information is stored centrally.*

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

**Reporting of Results** **Uncertainty of Measurement (UM%): 5.00%**

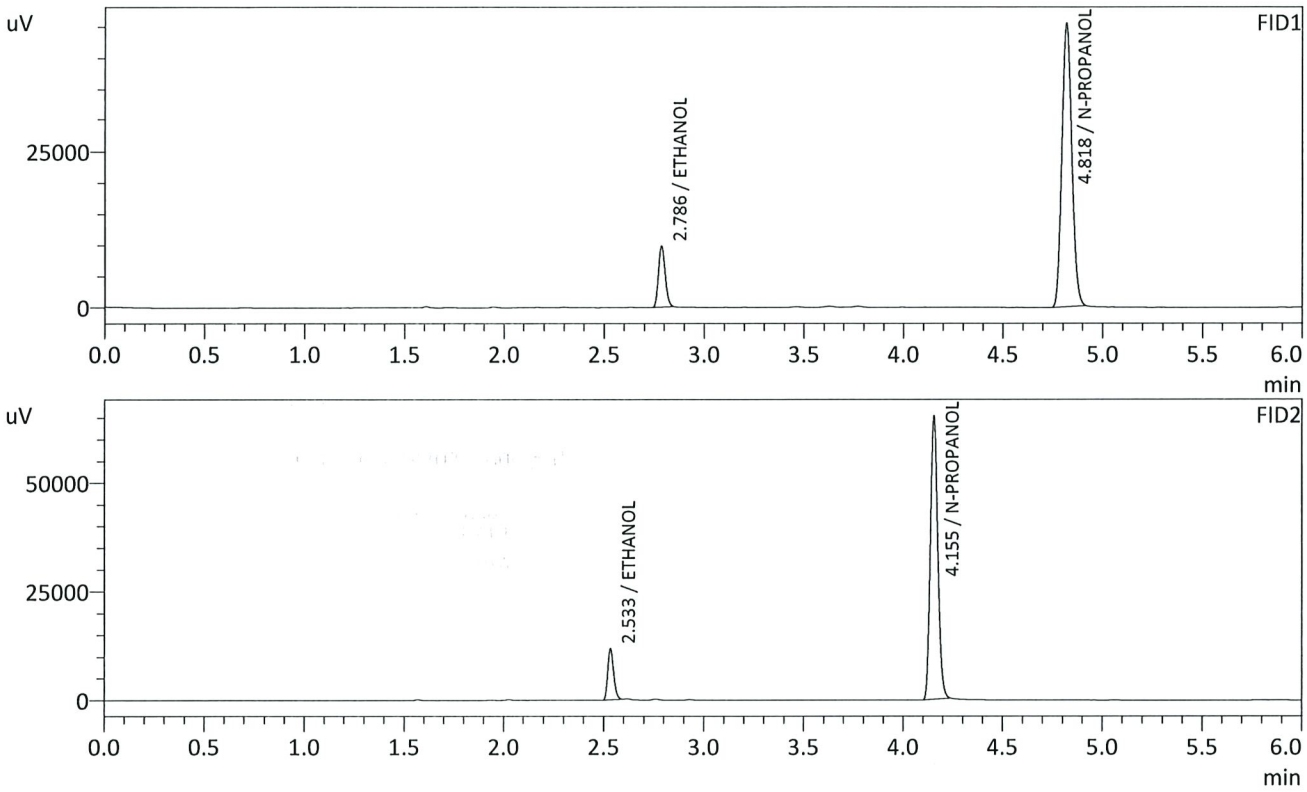
| Overall Mean (g/100cc) | Low | High | 5% of Mean |
|---|---|---|---|
| 0.076 | 0.072 | 0.080 | 0.004 |

| Reported Result |
|---|
| 0.076 |

***Calibration and control data are stored centrally.***

15

Sample Name : QC-1-1-A
Vial # : 9
Data Filename : QC-1-1-A_8132021_009.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 08-13-21_ts_post.gcb
Date Acquired : 8/13/2021 2:24:21 PM
Date Processed : 8/14/2021 6:55:54 AM




FID1

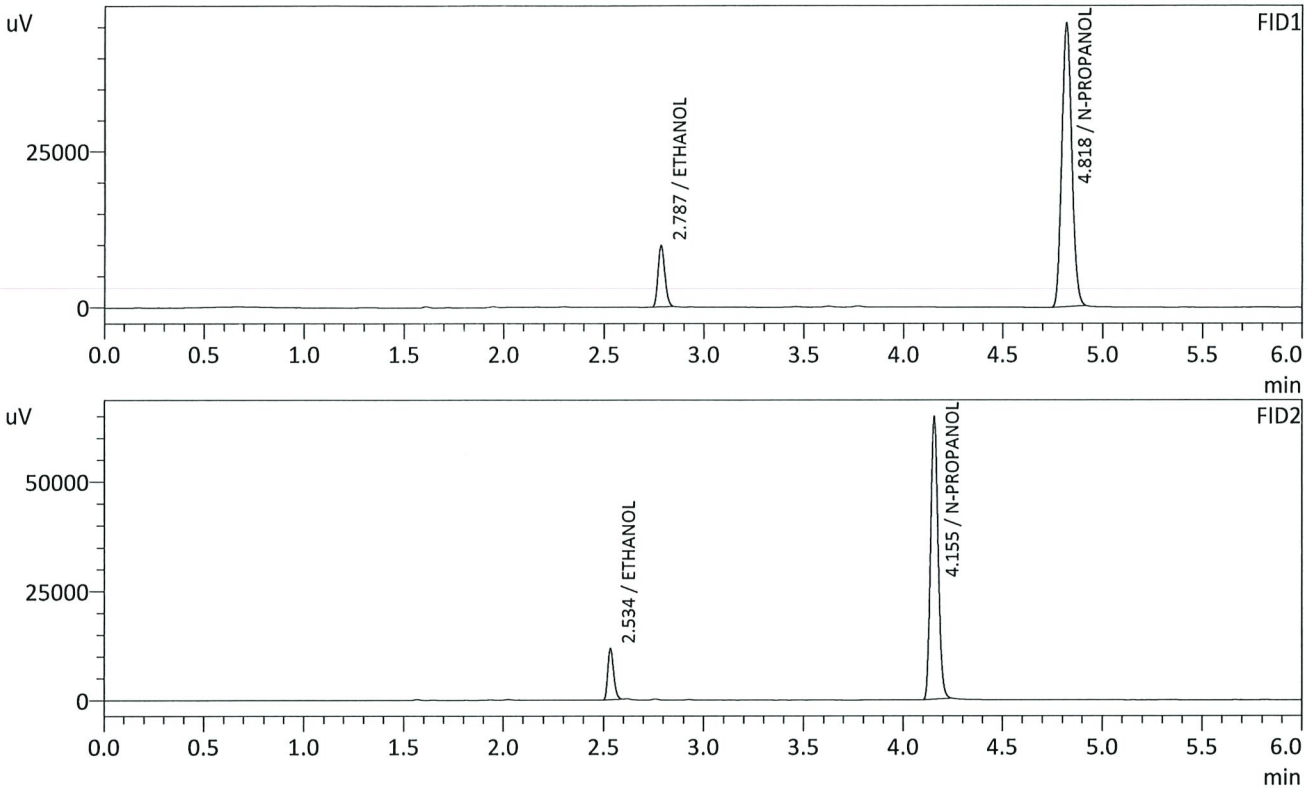
| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.0763 | g/100cc | 22979 | 9680 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 159136 | 45423 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.0767 | g/100cc | 23637 | 11712 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 170912 | 64848 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

TS

Sample Name : QC-1-1-B
Vial # : 10
Data Filename : QC-1-1-B_8132021_010.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 08-13-21_ts_post.gcb
Date Acquired : 8/13/2021 2:32:43 PM
Date Processed : 8/14/2021 6:55:55 AM




FID1

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.0768 | g/100cc | 23115 | 9717 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 158942 | 45401 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.0767 | g/100cc | 23612 | 11594 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 170683 | 64587 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

15

# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: 0.08 QA** **Analysis Date(s): 08/13/2021**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Sample A-B Difference | Over-all Mean |
|---|---|---|---|---|---|---|
| Sample Results | 0.0825 | 0.0823 | 0.0002 | 0.0824 | 0.0000 | 0.0824 |
| (g/100cc) | 0.0825 | 0.0824 | 0.0001 | 0.0824 | | |

**Analysis Method**

**Refer to Blood Alcohol Method #1**

**Instrument Information** *Instrument information is stored centrally.*

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

**Reporting of Results** **Uncertainty of Measurement (UM%): 5.00%**

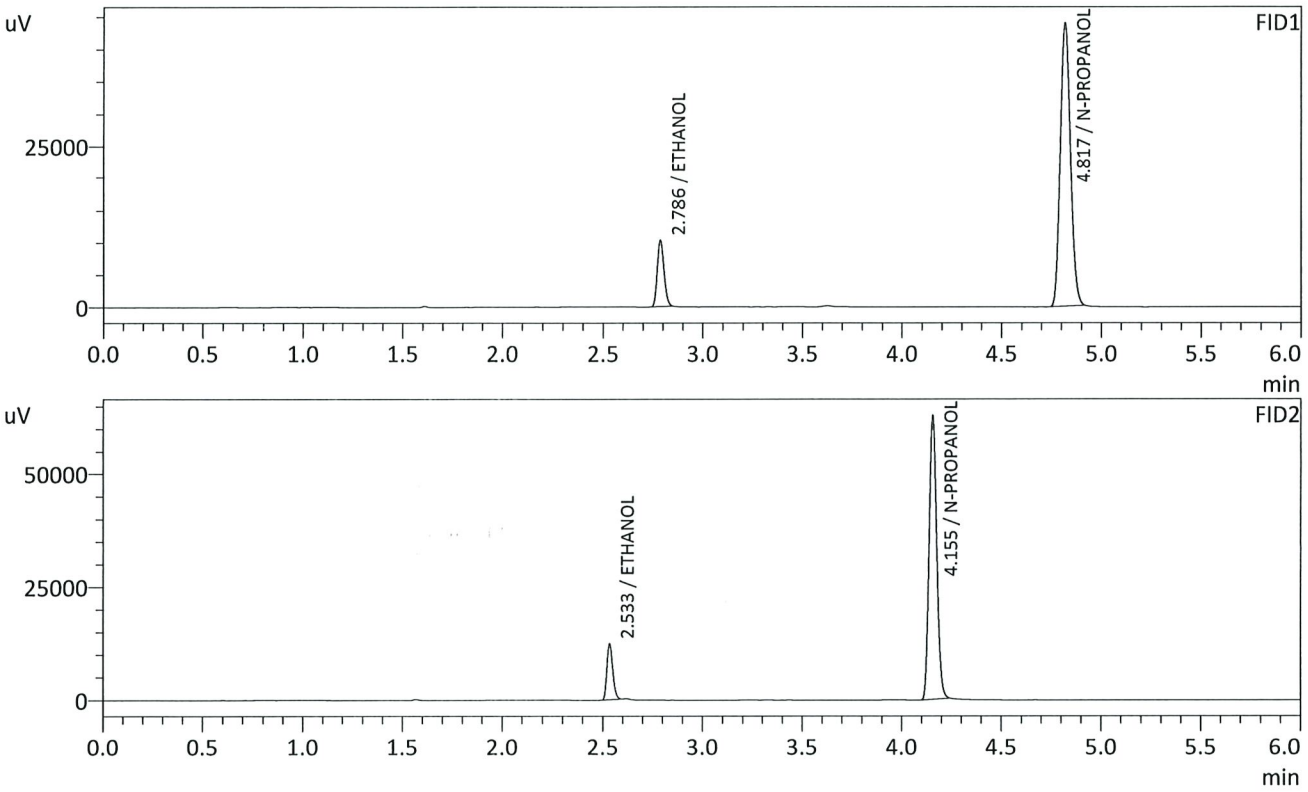
| Overall Mean (g/100cc) | Low | High | 5% of Mean |
|---|---|---|---|
| 0.082 | 0.077 | 0.087 | 0.005 |

| Reported Result |
|---|
| 0.082 |

***Calibration and control data are stored centrally.***

TS

Sample Name : 0.08 QA - A
Vial # : 11
Data Filename : 0.08 QA - A_8132021_011.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 08-13-21_ts_post.gcb
Date Acquired : 8/13/2021 2:41:46 PM
Date Processed : 8/14/2021 6:55:57 AM




FID1

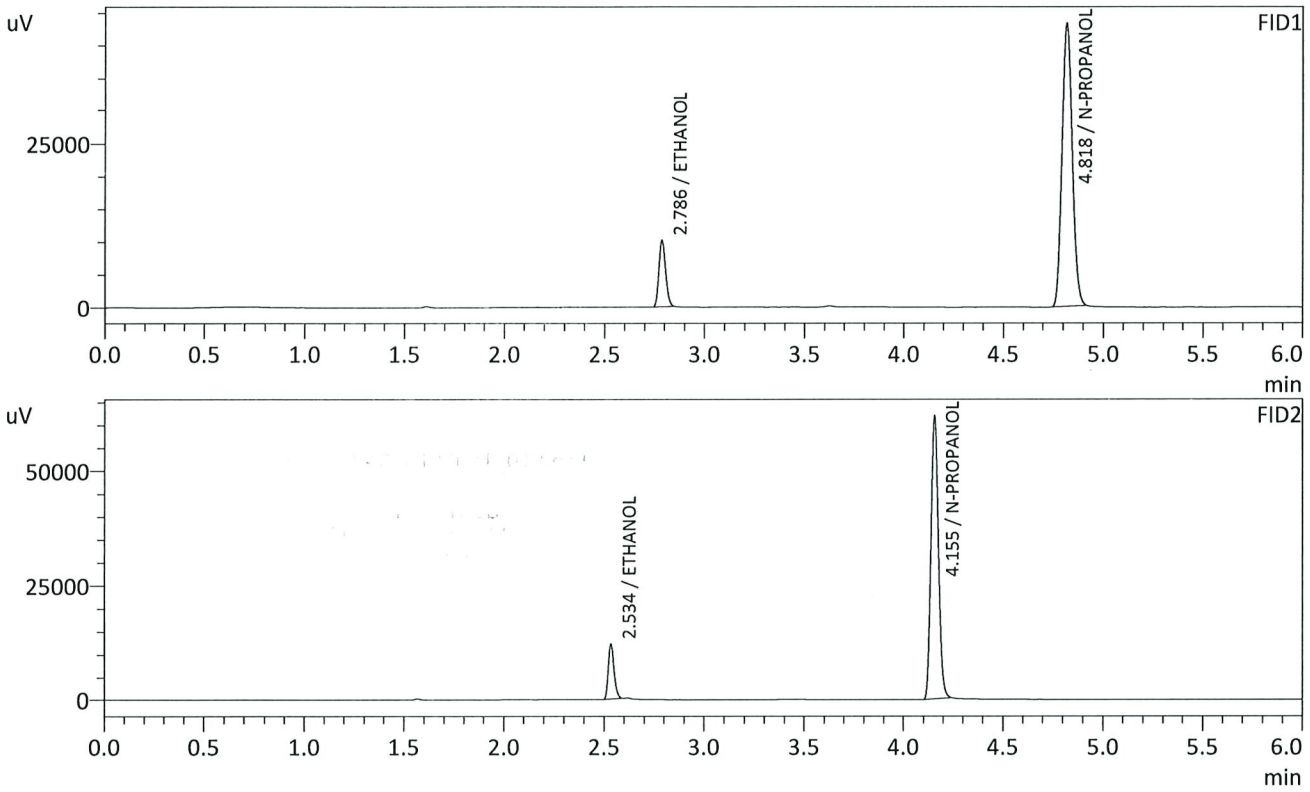
| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.0825 | g/100cc | 24191 | 10187 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 153978 | 43823 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.0823 | g/100cc | 24729 | 12261 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 165269 | 62500 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

TS

Sample Name : 0.08 QA - B
Vial # : 12
Data Filename : 0.08 QA - B_8132021_012.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 08-13-21_ts_post.gcb
Date Acquired : 8/13/2021 2:50:16 PM
Date Processed : 8/14/2021 6:55:58 AM




FID1

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.0825 | g/100cc | 23832 | 10024 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 151725 | 43247 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.0824 | g/100cc | 24325 | 11975 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 162468 | 61695 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

TS

# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: QC 2-1** **Analysis Date(s): 08/13/2021**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Sample A-B Difference | Over-all Mean |
|---|---|---|---|---|---|---|
| Sample Results | 0.2166 | 0.2152 | 0.0014 | 0.2159 | 0.0029 | 0.2144 |
| (g/100cc) | 0.2135 | 0.2125 | 0.0010 | 0.2130 | | |

**Analysis Method**

**Refer to Blood Alcohol Method #1**

**Instrument Information** *Instrument information is stored centrally.*

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

**Reporting of Results** **Uncertainty of Measurement (UM%): 5.00%**

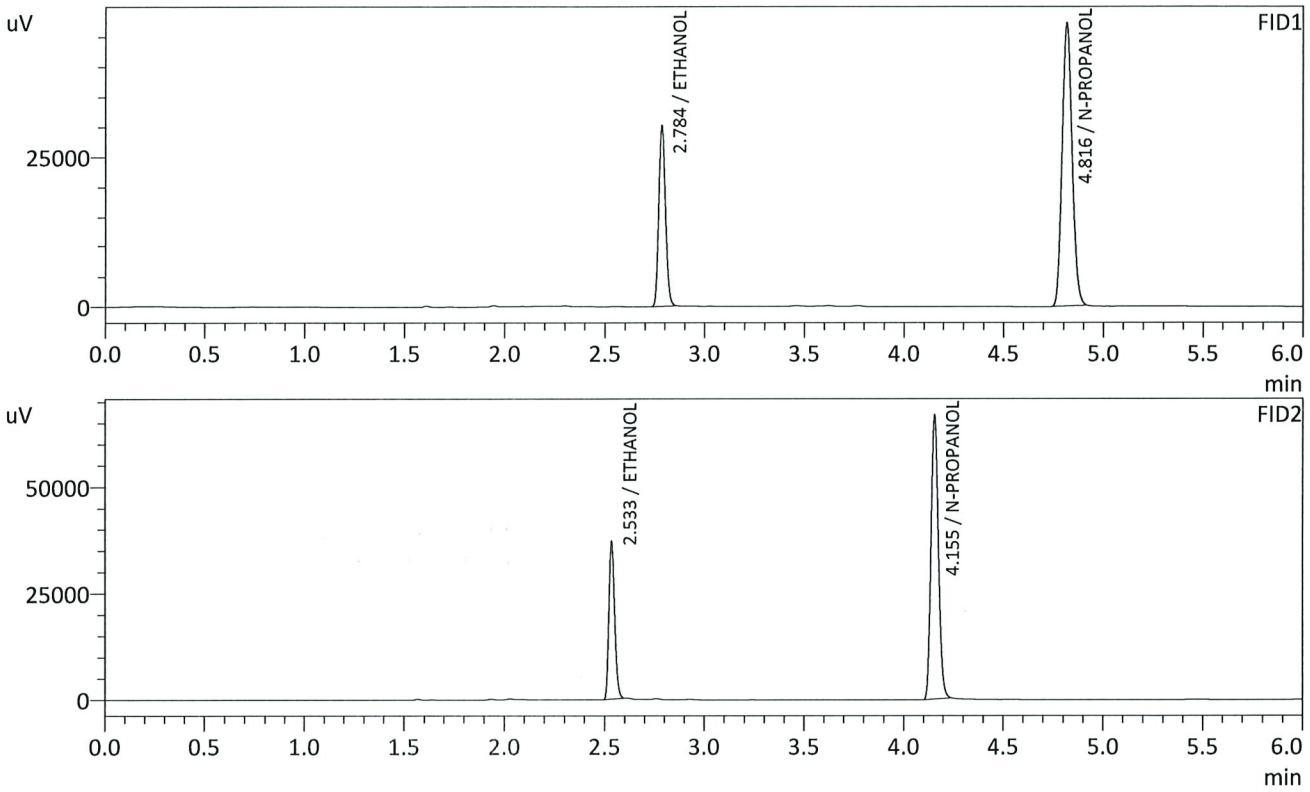
| Overall Mean (g/100cc) | Low | High | 5% of Mean |
|---|---|---|---|
| 0.214 | 0.203 | 0.225 | 0.011 |

| Reported Result |
|---|
| 0.214 |

***Calibration and control data are stored centrally.***

15

Sample Name : QC-2-1-A
Vial # : 31
Data Filename : QC-2-1-A_8132021_031.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 08-13-21_ts_post.gcb
Date Acquired : 8/13/2021 5:38:25 PM
Date Processed : 8/14/2021 6:56:23 AM




FID1

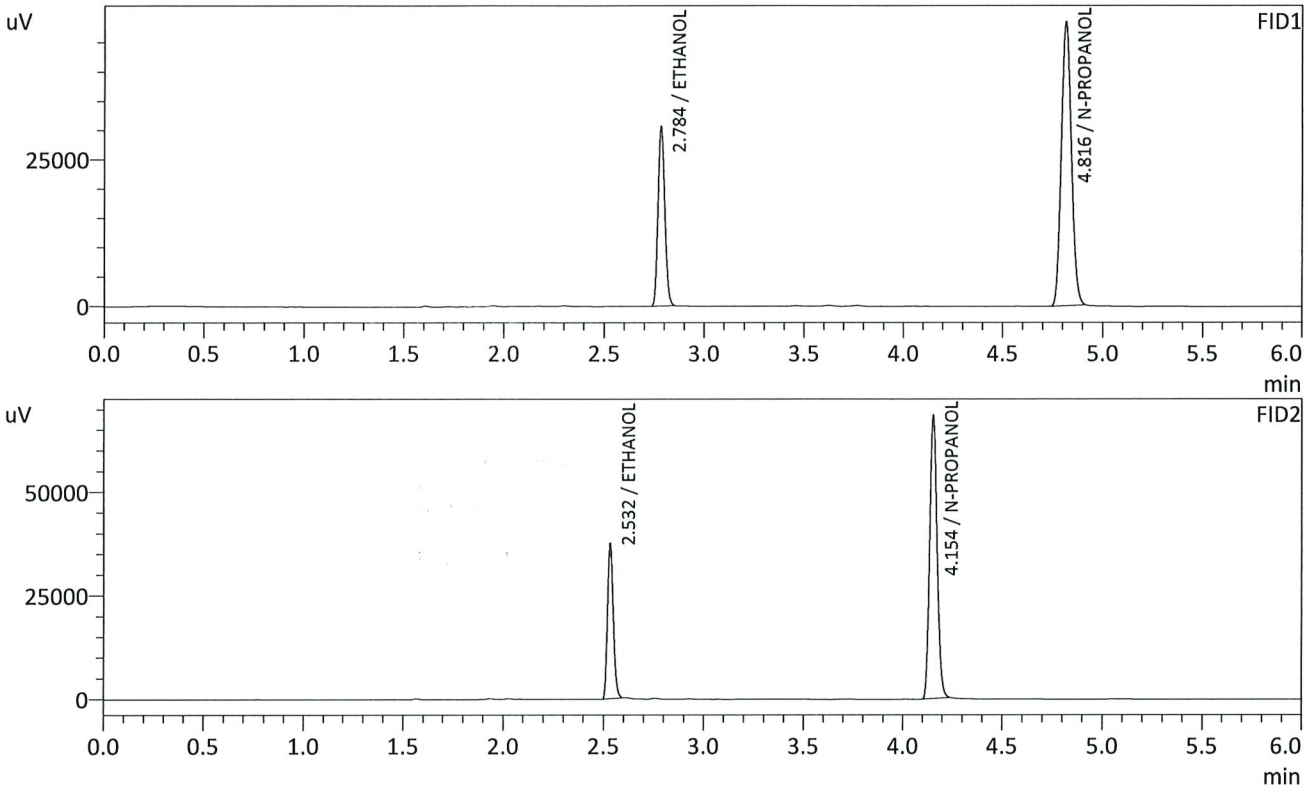
| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.2166 | g/100cc | 70725 | 30136 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 165122 | 47027 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.2152 | g/100cc | 73255 | 36730 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 175069 | 66468 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

TS

| | |
|---|---|
| Sample Name | : QC-2-1-B |
| Vial # | : 32 |
| Data Filename | : QC-2-1-B_8132021_032.gcd |
| Method Filename | : ALCOHOL.gcm |
| Batch Filename | : 08-13-21_ts_post.gcb |
| Date Acquired | : 8/13/2021 5:47:18 PM |
| Date Processed | : 8/14/2021 6:56:25 AM |




FID1

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.2135 | g/100cc | 71495 | 30539 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 169435 | 48212 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.2125 | g/100cc | 74283 | 37366 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 179910 | 68010 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

TS

# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: QC 1-2** **Analysis Date(s): 08/13/2021**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Sample A-B Difference | Over-all Mean |
|---|---|---|---|---|---|---|
| Sample Results | 0.0788 | 0.0787 | 0.0001 | 0.0787 | 0.0001 | 0.0788 |
| (g/100cc) | 0.0788 | 0.0789 | 0.0001 | 0.0788 | | |

**Analysis Method**

**Refer to Blood Alcohol Method #1**

**Instrument Information** *Instrument information is stored centrally.*

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

**Reporting of Results** **Uncertainty of Measurement (UM%): 5.00%**

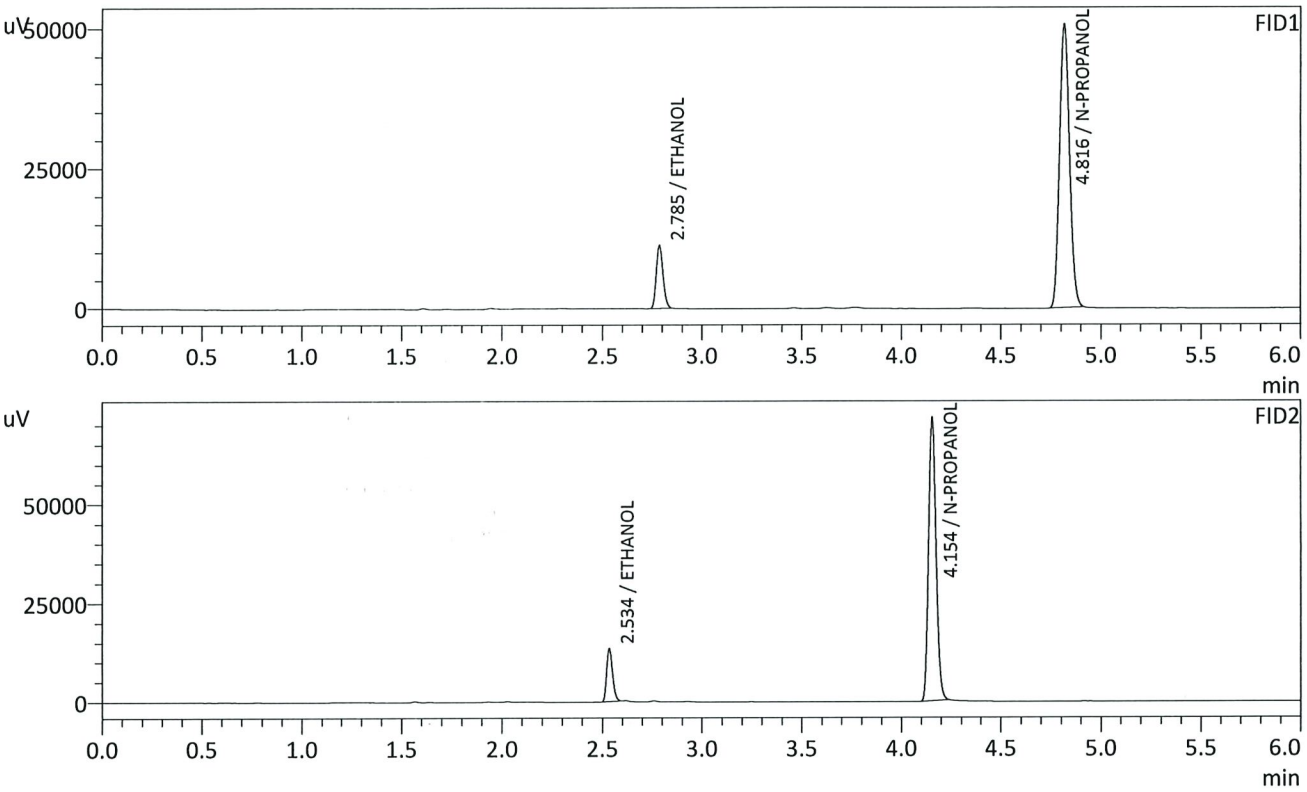
| Overall Mean (g/100cc) | Low | High | 5% of Mean |
|---|---|---|---|
| 0.078 | 0.074 | 0.082 | 0.004 |

| Reported Result |
|---|
| 0.078 |

***Calibration and control data are stored centrally.***

TS

Sample Name : QC1-2-A
Vial # : 53
Data Filename : QC1-2-A_8132021_053.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 08-13-21_ts_post.gcb
Date Acquired : 8/13/2021 8:53:09 PM
Date Processed : 8/14/2021 6:56:51 AM




FID1

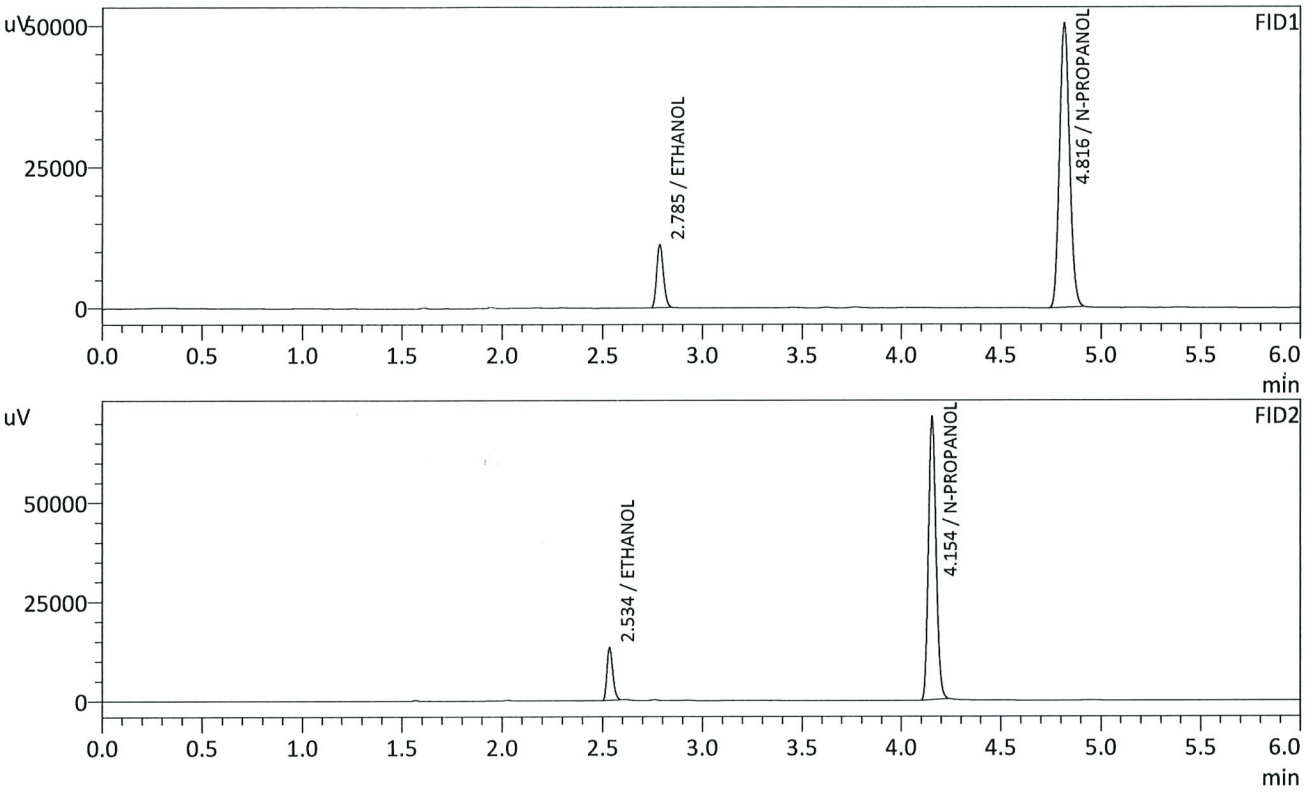
| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.0788 | g/100cc | 26439 | 11191 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 176858 | 50446 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.0787 | g/100cc | 26795 | 13221 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 188384 | 71282 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

TS

Sample Name : QC1-2-B
Vial # : 54
Data Filename : QC1-2-B_8132021_054.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 08-13-21_ts_post.gcb
Date Acquired : 8/13/2021 9:01:49 PM
Date Processed : 8/14/2021 6:56:52 AM




FID1

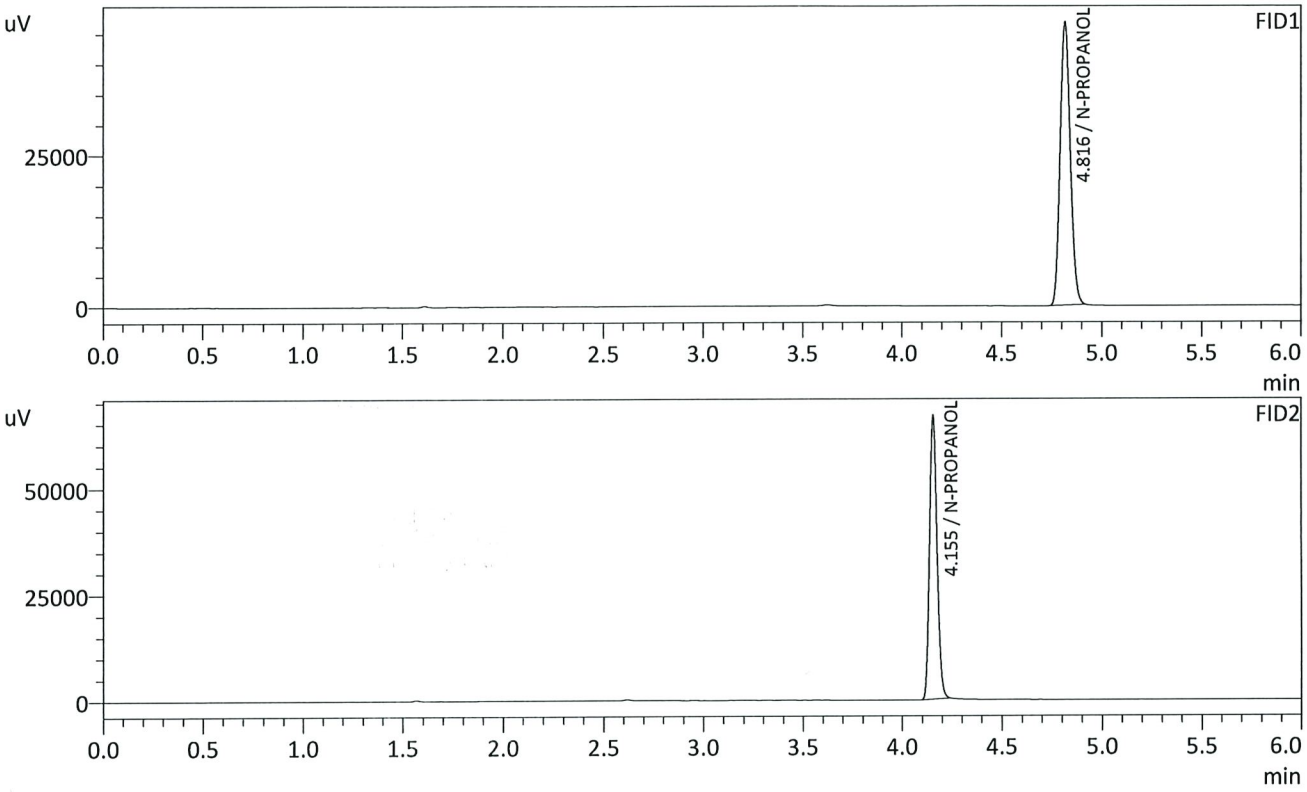
| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.0788 | g/100cc | 26291 | 11135 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 175912 | 50184 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.0789 | g/100cc | 26707 | 13091 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 187220 | 70886 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

TS

Sample Name : INT STD BLK 3
Vial # : 55
Data Filename : INT STD BLK 3_8132021_055.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 08-13-21_ts_post.gcb
Date Acquired : 8/13/2021 9:10:57 PM
Date Processed : 8/14/2021 6:56:53 AM




FID1

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 163791 | 46588 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 174329 | 66407 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

TS

# Region 5 Pocatello Blood Alcohol Analysis Batch Table

Shimadzu Nexis GC-2030 Serial Number: C12255850662
Shimadzu HS-20 Serial Number: C12595700014
LabSolutions Version 5.98
Copyright (C) 2008-2019 Shimadzu Corporation. All rights reserved.

| Vial# | Sample Name | Sample Type | Method File | Data File | Level# |
|---|---|---|---|---|---|
| 1 | 0.050 | 1:Standard:(I) | ALCOHOL.gcm | 0.050_8132021_001.gcd | 1 |
| 2 | 0.100 | 1:Standard:(R) | ALCOHOL.gcm | 0.100_8132021_002.gcd | 2 |
| 3 | 0.200 | 1:Standard:(R) | ALCOHOL.gcm | 0.200_8132021_003.gcd | 3 |
| 4 | 0.300 | 1:Standard:(R) | ALCOHOL.gcm | 0.300_8132021_004.gcd | 4 |
| 5 | 0.500 | 1:Standard:(R) | ALCOHOL.gcm | 0.500_8132021_005.gcd | 5 |
| 6 | INT STD BLK 1 | 0:Unknown | ALCOHOL.gcm | INT STD BLK 1_8132021_006.gcd | 0 |
| 7 | MULTI-COMP MIX | 0:Unknown | ALCOHOL.gcm | MULTI-COMP MIX_8132021_007.gcd | 1 |
| 8 | INT STD BLK 2 | 0:Unknown | ALCOHOL.gcm | INT STD BLK 2_8132021_008.gcd | 0 |
| 9 | QC-1-1-A | 0:Unknown | ALCOHOL.gcm | QC-1-1-A_8132021_009.gcd | 0 |
| 10 | QC-1-1-B | 0:Unknown | ALCOHOL.gcm | QC-1-1-B_8132021_010.gcd | 0 |
| 11 | 0.08 QA - A | 0:Unknown | ALCOHOL.gcm | 0.08 QA - A_8132021_011.gcd | 0 |
| 12 | 0.08 QA - B | 0:Unknown | ALCOHOL.gcm | 0.08 QA - B_8132021_012.gcd | 0 |
| 13 | P2021-2440-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2440-1-A_8132021_013.gcd | 0 |
| 14 | P2021-2440-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2440-1-B_8132021_014.gcd | 0 |
| 15 | P2021-2454-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2454-1-A_8132021_015.gcd | 0 |
| 16 | P2021-2454-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2454-1-B_8132021_016.gcd | 0 |
| 17 | P2021-2476-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2476-1-A_8132021_017.gcd | 0 |
| 18 | P2021-2476-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2476-1-B_8132021_018.gcd | 0 |
| 19 | P2021-2476-2-A | 0:Unknown | ALCOHOL.gcm | P2021-2476-2-A_8132021_019.gcd | 0 |
| 20 | P2021-2476-2-B | 0:Unknown | ALCOHOL.gcm | P2021-2476-2-B_8132021_020.gcd | 0 |
| 21 | P2021-2477-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2477-1-A_8132021_021.gcd | 0 |
| 22 | P2021-2477-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2477-1-B_8132021_022.gcd | 0 |
| 23 | P2021-2485-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2485-1-A_8132021_023.gcd | 0 |
| 24 | P2021-2485-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2485-1-B_8132021_024.gcd | 0 |
| 25 | P2021-2488-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2488-1-A_8132021_025.gcd | 0 |
| 26 | P2021-2488-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2488-1-B_8132021_026.gcd | 0 |
| 27 | P2021-2489-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2489-1-A_8132021_027.gcd | 0 |
| 28 | P2021-2489-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2489-1-B_8132021_028.gcd | 0 |
| 29 | P2021-2494-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2494-1-A_8132021_029.gcd | 0 |
| 30 | P2021-2494-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2494-1-B_8132021_030.gcd | 0 |
| 31 | QC-2-1-A | 0:Unknown | ALCOHOL.gcm | QC-2-1-A_8132021_031.gcd | 0 |
| 32 | QC-2-1-B | 0:Unknown | ALCOHOL.gcm | QC-2-1-B_8132021_032.gcd | 0 |
| 33 | P2021-2495-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2495-1-A_8132021_033.gcd | 0 |
| 34 | P2021-2495-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2495-1-B_8132021_034.gcd | 0 |
| 35 | P2021-2498-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2498-1-A_8132021_035.gcd | 0 |
| 36 | P2021-2498-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2498-1-B_8132021_036.gcd | 0 |
| 37 | P2021-2499-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2499-1-A_8132021_037.gcd | 0 |
| 38 | P2021-2499-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2499-1-B_8132021_038.gcd | 0 |
| 39 | P2021-2500-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2500-1-A_8132021_039.gcd | 0 |
| 40 | P2021-2500-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2500-1-B_8132021_040.gcd | 0 |
| 41 | P2021-2501-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2501-1-A_8132021_041.gcd | 0 |
| 42 | P2021-2501-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2501-1-B_8132021_042.gcd | 0 |
| 43 | P2021-2522-3-A | 0:Unknown | ALCOHOL.gcm | P2021-2522-3-A_8132021_043.gcd | 0 |
| 44 | P2021-2522-3-B | 0:Unknown | ALCOHOL.gcm | P2021-2522-3-B_8132021_044.gcd | 0 |
| 45 | P2021-2545-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2545-1-A_8132021_045.gcd | 0 |
| 46 | P2021-2545-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2545-1-B_8132021_046.gcd | 0 |
| 47 | P2021-2552-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2552-1-A_8132021_047.gcd | 0 |
| 48 | P2021-2552-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2552-1-B_8132021_048.gcd | 0 |
| 49 | P2021-2553-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2553-1-A_8132021_049.gcd | 0 |
| 50 | P2021-2553-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2553-1-B_8132021_050.gcd | 0 |
| 51 | P2021-2572-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2572-1-A_8132021_051.gcd | 0 |
| 52 | P2021-2572-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2572-1-B_8132021_052.gcd | 0 |

TS

| Vial# | Sample Name | Sample Type | Method File | Data File | Level# |
|---|---|---|---|---|---|
| 53 | QC1-2-A | 0:Unknown | ALCOHOL.gcm | QC1-2-A_8132021_053.gcd | 0 |
| 54 | QC1-2-B | 0:Unknown | ALCOHOL.gcm | QC1-2-B_8132021_054.gcd | 0 |
| 55 | INT STD BLK 3 | 0:Unknown | ALCOHOL.gcm | INT STD BLK 3_8132021_055.gcd | 0 |