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

*Analytical Method(s): 1.0*

*Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number: ML600HC11378*

**Volatiles Quality Assurance Controls** **Run Date(s): 9/3/20 - 9/4/20; calibration 9/3/20**

| Control level | Expiration | Lot # | Target Value | Acceptable Range | Overall Results |
|---|---|---|---|---|---|
| Level 1 | Jul-23 | 1907006 | 0.0764 | 0.0688-0.0840 | 0.0755 g/100cc |
| | | | | | 0.0736 g/100cc |
| | | | | | g/100cc |
| Level 2 | Mar-22 | 1803028 | 0.2035 | 0.1832-0.2238 | 0.2003 g/100cc |
| | | | | | g/100cc |
| | | | | | g/100cc |

| | | | | | |
|---|---|---|---|---|---|
| **Multi-Component mixture:** | | | **Lot #** | FN07101701 | acceptable |
| **Curve Fit:** | | **Column 1** | 0.99998 | **Column2** | 0.99989 |

**Ethanol Calibration Reference Material**

| Calibrator level | Target Value | Acceptable Range | Column 1 | Column 2 | Precision | Mean |
|---|---|---|---|---|---|---|
| 50 | 0.050 | 0.045 - 0.055 | 0.0509 | 0.0529 | 0.002 | 0.0519 |
| 100 | 0.100 | 0.090 - 0.110 | 0.0998 | 0.0997 | 0.0001 | 0.0997 |
| 200 | 0.200 | 0.180 - 0.220 | 0.1999 | 0.1982 | 0.0017 | 0.199 |
| 300 | 0.300 | 0.270 - 0.330 | 0.2984 | 0.2967 | 0.0017 | 0.2975 |
| 400 | 0.400 | 0.360 - 0.440 | | | 0 | #DIV/0! |
| 500 | 0.500 | 0.450 - 0.550 | 0.5009 | 0.5025 | 0.0016 | 0.5017 |

**Aqueous Controls**

| Control level | Target Value | Acceptable Range | Overall Results |
|---|---|---|---|
| 80 | 0.080 | 0.076 - 0.084 | 0.081 g/100cc |

NB

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

On 9/3/20, after the run sequence has started, I realized that the 0.080 QA samples were accidentally swapped with the internal standard blank locations on the auto-sampler tray. Up to this point, the mixed volatile, QC-1-1, and M2020-2310-2 already completed with M2020-3318-1 equilibrating in the oven awaiting injection. Upon this discovery, I decided to abort the sequence and I re-extracted internal standard blanks, 0.080 QA samples, QC1-1, M2020-2310-2, and M2020-3318-1. I then recreated the run sequence and double checked all the vial positions in the batch and restarted the run.

MBradley
9/4/20

NB

**Worklist: 4493**

| LAB_CASE | ITEM | ITEM_TYPE | DESCRIPTION |
|---|---|---|---|
| M2020-2310 | 2 | BCK | Alcohol Analysis |
| M2020-3318 | 1 | BCK | Alcohol Analysis |
| M2020-3344 | 1 | BCK | Alcohol Analysis |
| M2020-3351 | 1 | BCK | Alcohol Analysis |
| M2020-3362 | 1 | BCK | Alcohol Analysis |
| M2020-3366 | 1 | BCK | Alcohol Analysis |
| M2020-3376 | 1 | BCK | Alcohol Analysis |
| M2020-3382 | 2 | BCK | Alcohol Analysis |
| M2020-3383 | 1 | BCK | Alcohol Analysis |
| M2020-3387 | 1 | BCK | Alcohol Analysis |
| M2020-3399 | 1 | BCK | Alcohol Analysis |
| M2020-3400 | 1 | BCK | Alcohol Analysis |
| P2020-2543 | 1 | BCK | Alcohol Analysis |
| P2020-2544 | 1 | BCK | Alcohol Analysis |
| P2020-2574 | 1 | BCK | Alcohol Analysis |
| P2020-2575 | 1 | BCK | Alcohol Analysis |
| P2020-2576 | 1 | BCK | Alcohol Analysis |
| P2020-2590 | 1 | BCK | Alcohol Analysis |
| P2020-2591 | 1 | BCK | Alcohol Analysis |

NB

## Calibration Table

### General Calibration Setting

Calib. Data Modified : Thursday, September 03, 2020 2:25:10 PM
Signals calculated separately : No

Rel. Reference Window : 0.000 %
Abs. Reference Window : 0.100 min
Rel. Non-ref. Window : 0.000 %
Abs. Non-ref. Window : 0.100 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Default Sample ISTD Information (if not set in sample table):

| ISTD # | ISTD Amount [g/100cc] | Name |
|---|---|---|
| 1 | 1.00000 | n-propanol |
| 2 | 1.00000 | n-propanol |

### Signal Details

Signal 1: FID1 A, Front Signal
Signal 2: FID2 B, Back Signal

### Overview Table

| RT | Sig | Lvl | Amount [g/100cc] | Area | Rsp.Factor | Ref | ISTD | # | Compound |
|---|---|---|---|---|---|---|---|---|---|
| 2.586 | 1 | 1 | 1.00000 | 3.69669 | 2.70512e-1 | No | No | 1 | methanol |
| 2.809 | 1 | 1 | 1.00000 | 4.26100 | 2.34687e-1 | No | No | 2 | Acetaldehyde |
| 2.977 | 2 | 1 | 1.00000 | 4.26100 | 2.34687e-1 | No | No | 2 | Acetaldehyde |
| 3.075 | 1 | 1 | 5.00000e-2 | 4.35949 | 1.14692e-2 | No | No | 1 | ethanol |
| | | 2 | 1.00000e-1 | 8.76935 | 1.14034e-2 | | | | |
| | | 3 | 2.00000e-1 | 17.73212 | 1.12790e-2 | | | | |
| | | 4 | 3.00000e-1 | 26.66915 | 1.12490e-2 | | | | |
| | | 5 | 5.00000e-1 | 43.90200 | 1.13890e-2 | | | | |
| 3.388 | 2 | 1 | 1.00000 | 4.26062 | 2.34707e-1 | No | No | 2 | methanol |
| 3.628 | 1 | 1 | 1.00000 | 9.73055 | 1.02769e-1 | No | No | 1 | isopropyl alcohol |
| 4.285 | 2 | 1 | 5.00000e-2 | 4.55851 | 1.09685e-2 | No | No | 2 | ethanol |
| | | 2 | 1.00000e-1 | 9.04151 | 1.10601e-2 | | | | |
| | | 3 | 2.00000e-1 | 18.39215 | 1.08742e-2 | | | | |
| | | 4 | 3.00000e-1 | 27.80130 | 1.07909e-2 | | | | |
| | | 5 | 5.00000e-1 | 46.19029 | 1.08248e-2 | | | | |
| 4.308 | 1 | 1 | 1.00000 | 6.49940 | 1.53860e-1 | No | No | 1 | acetone |
| 4.620 | 1 | 1 | 1.00000 | 40.85903 | 2.44744e-2 | No | Yes | 1 | n-propanol |
| | | 2 | 1.00000 | 40.98506 | 2.43991e-2 | | | | |
| | | 3 | 1.00000 | 40.87630 | 2.44641e-2 | | | | |
| | | 4 | 1.00000 | 41.02362 | 2.43762e-2 | | | | |
| | | 5 | 1.00000 | 40.09966 | 2.49379e-2 | | | | |
| 4.661 | 2 | 1 | 1.00000 | 6.89301 | 1.45075e-1 | No | No | 2 | acetone |
| 4.969 | 2 | 1 | 1.00000 | 10.70642 | 9.34019e-2 | No | No | 2 | isopropyl alcohol |
| 7.550 | 2 | 1 | 1.00000 | 42.51776 | 2.35196e-2 | No | Yes | 2 | n-propanol |
| | | 2 | 1.00000 | 42.22186 | 2.36844e-2 | | | | |
| | | 3 | 1.00000 | 41.86564 | 2.38859e-2 | | | | |
| | | 4 | 1.00000 | 41.85574 | 2.38916e-2 | | | | |
| | | 5 | 1.00000 | 40.71259 | 2.45624e-2 | | | | |

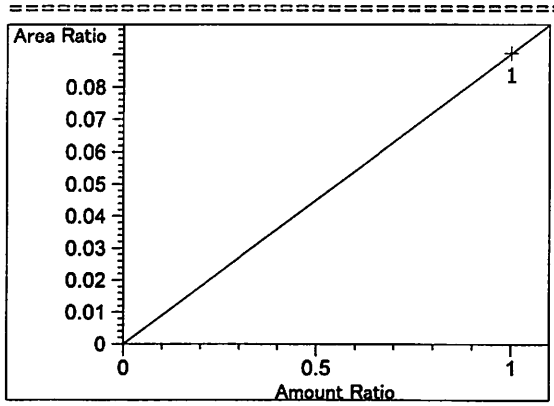
Peak Sum Table

***No Entries in table***

1 Warnings or Errors :

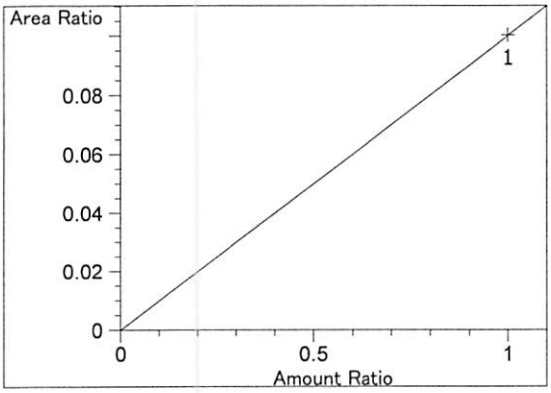
Warning : Curve requires more calibration points., (methanol)

Calibration Curves

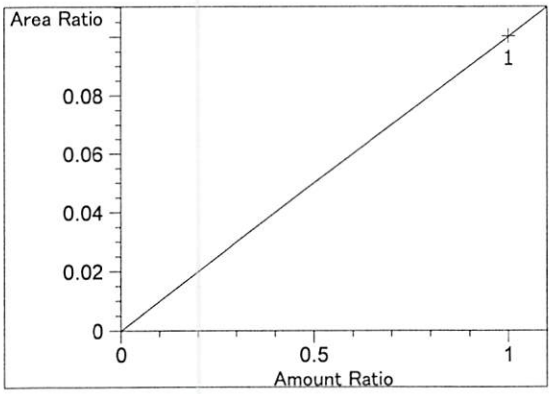



methanol at exp. RT: 2.586
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 9.04744e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio

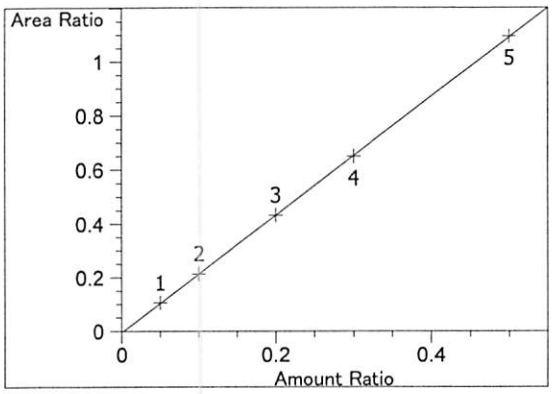
NB



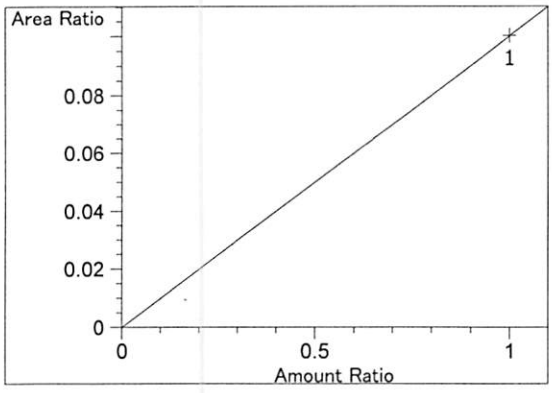

Acetaldehyde at exp. RT: 2.809
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00217e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio




Acetaldehyde at exp. RT: 2.977
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00217e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

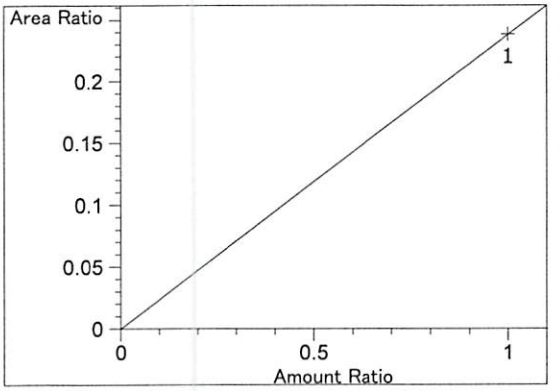



ethanol at exp. RT: 3.075
FID1 A, Front Signal
Correlation: 0.99998
Residual Std. Dev.: 0.00265
Formula: y = mx + b
m: 2.19589
b: -5.17961e-3
x: Amount Ratio
y: Area Ratio

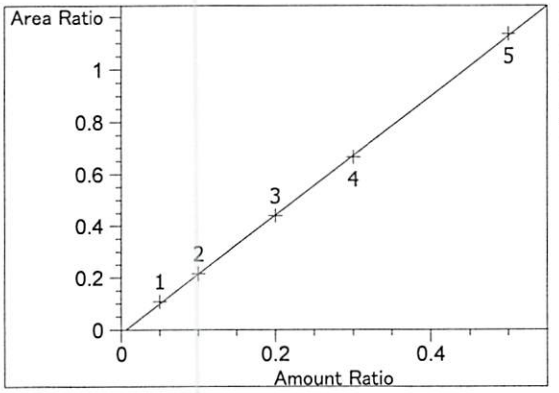



methanol at exp. RT: 3.388
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00208e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

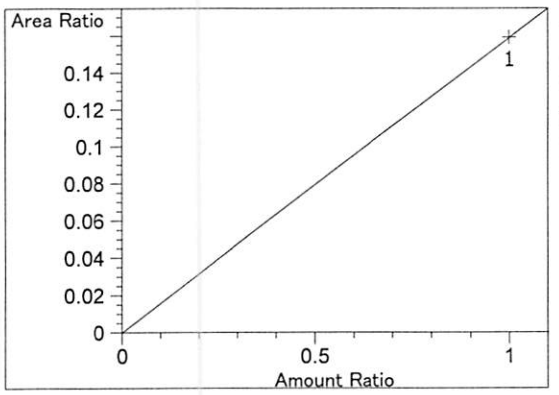
NB



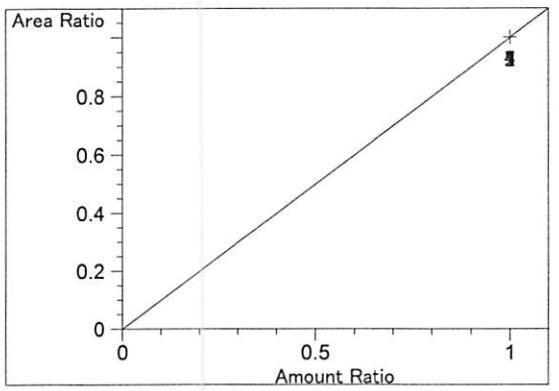

isopropyl alcohol at exp. RT: 3.628
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 2.38149e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



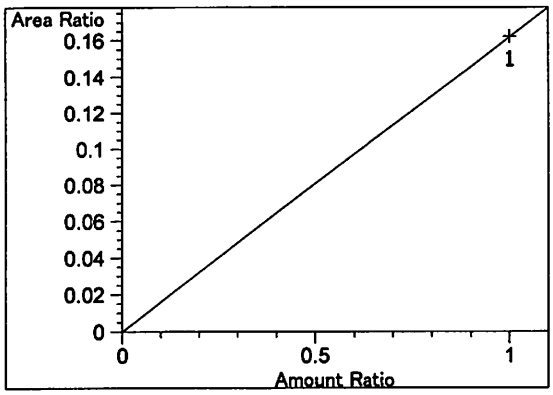

ethanol at exp. RT: 4.285
FID2 B, Back Signal
Correlation: 0.99989
Residual Std. Dev.: 0.00710
Formula: y = mx + b
m: 2.28520
b: -1.37099e-2
x: Amount Ratio
y: Area Ratio



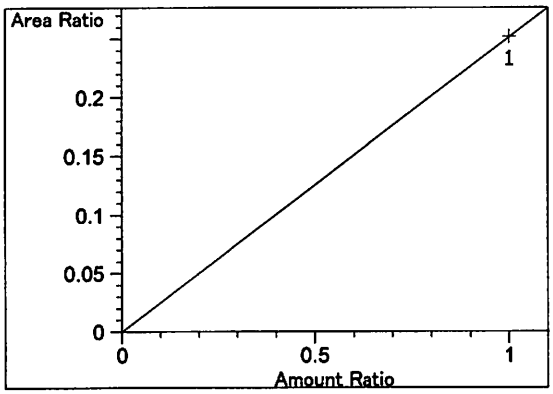

acetone at exp. RT: 4.308
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.59069e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



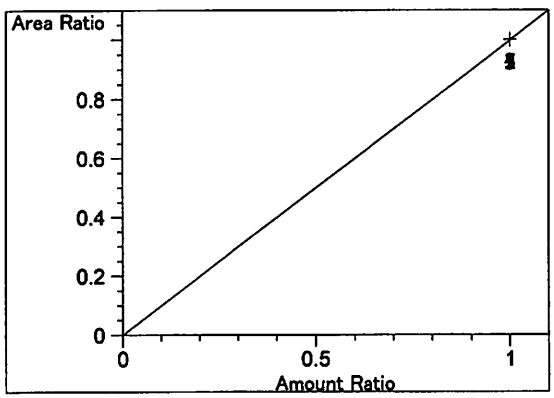

n-propanol at exp. RT: 4.620
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio




acetone at exp. RT: 4.661
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.62121e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio




isopropyl alcohol at exp. RT: 4.969
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 2.51810e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



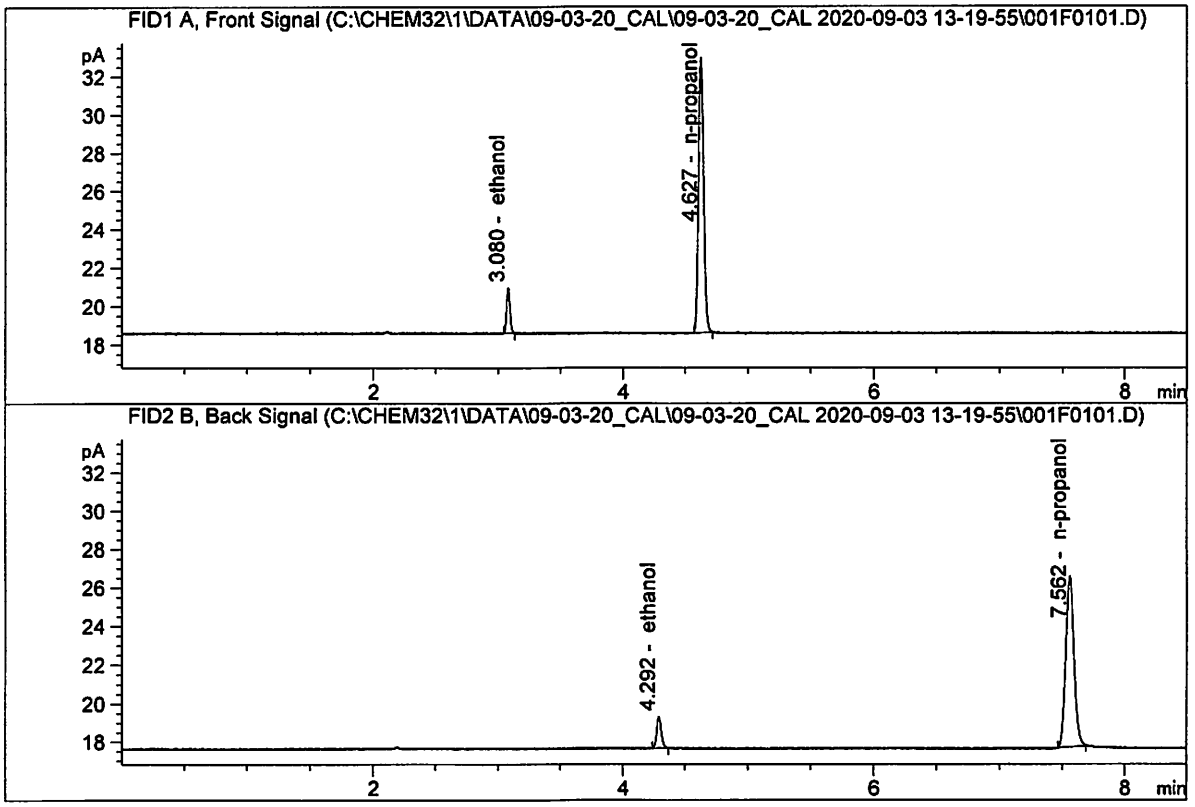

n-propanol at exp. RT: 7.550
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio

==========

NB

# ISP Forensic Services Blood Alcohol Report

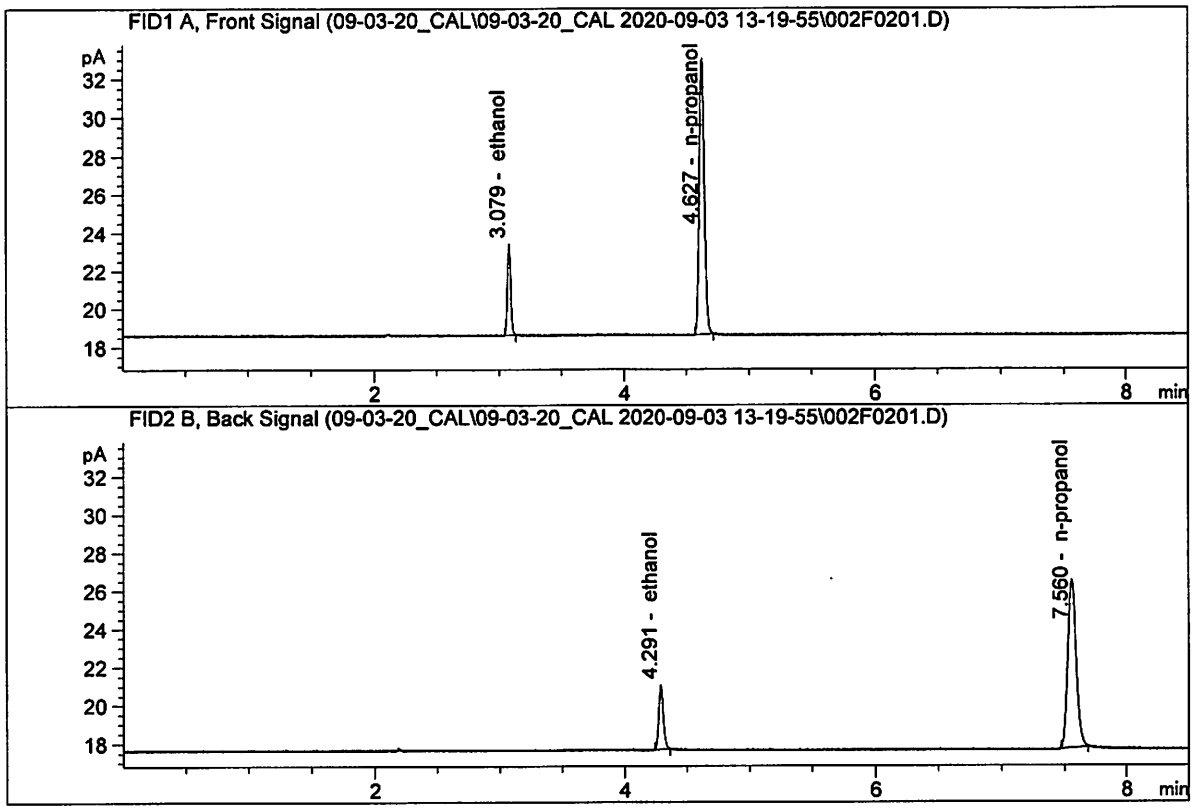
Sample Name : 0.050 FN05211804
Laboratory : Meridian
Injection Date : Sep 3, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 4.35949 | 0.0509 | g/100cc |
| 2. | Ethanol | Column 2: | 4.55851 | 0.0529 | g/100cc |
| 3. | n-Propanol | Column 1: | 40.85903 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 42.51776 | 1.0000 | g/100cc |

# ISP Forensic Services Blood Alcohol Report

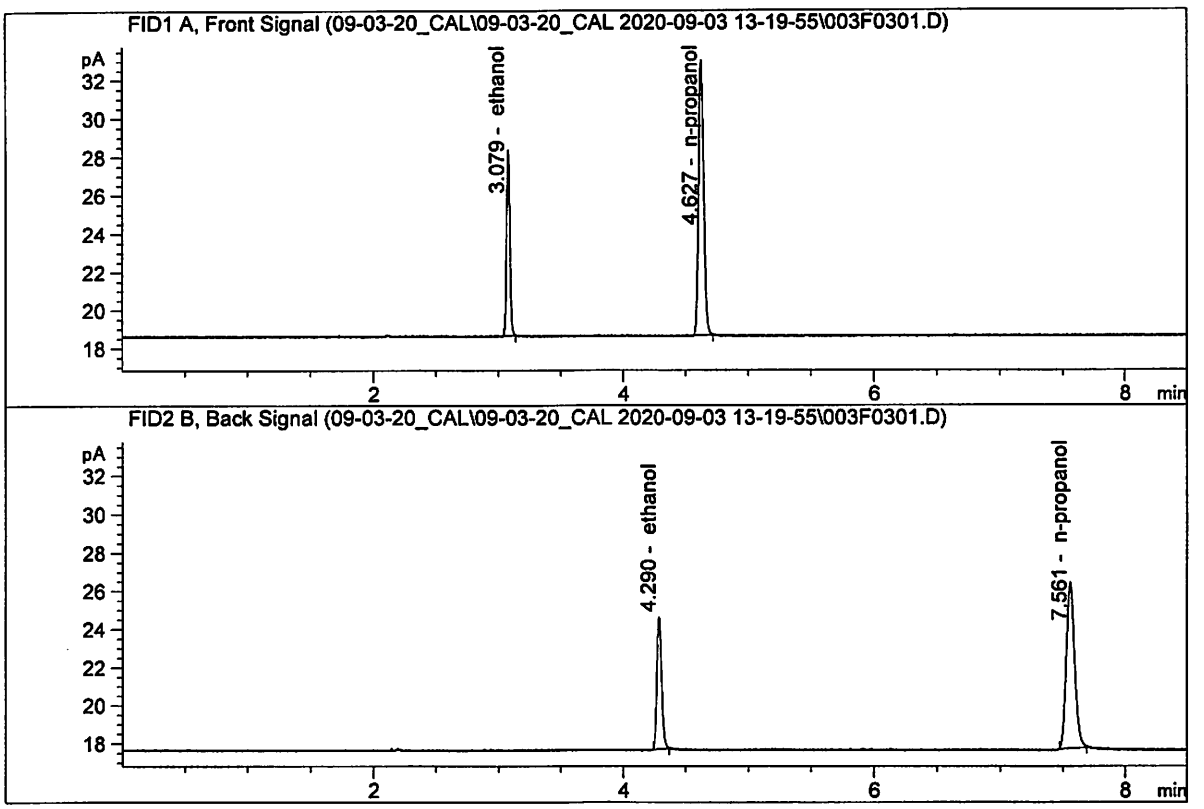
Sample Name : 0.100 FN02271802
Laboratory : Meridian
Injection Date : Sep 3, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 8.76935 | 0.0998 | g/100cc |
| 2. | Ethanol | Column 2: | 9.04151 | 0.0997 | g/100cc |
| 3. | n-Propanol | Column 1: | 40.98506 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 42.22186 | 1.0000 | g/100cc |

# ISP Forensic Services Blood Alcohol Report

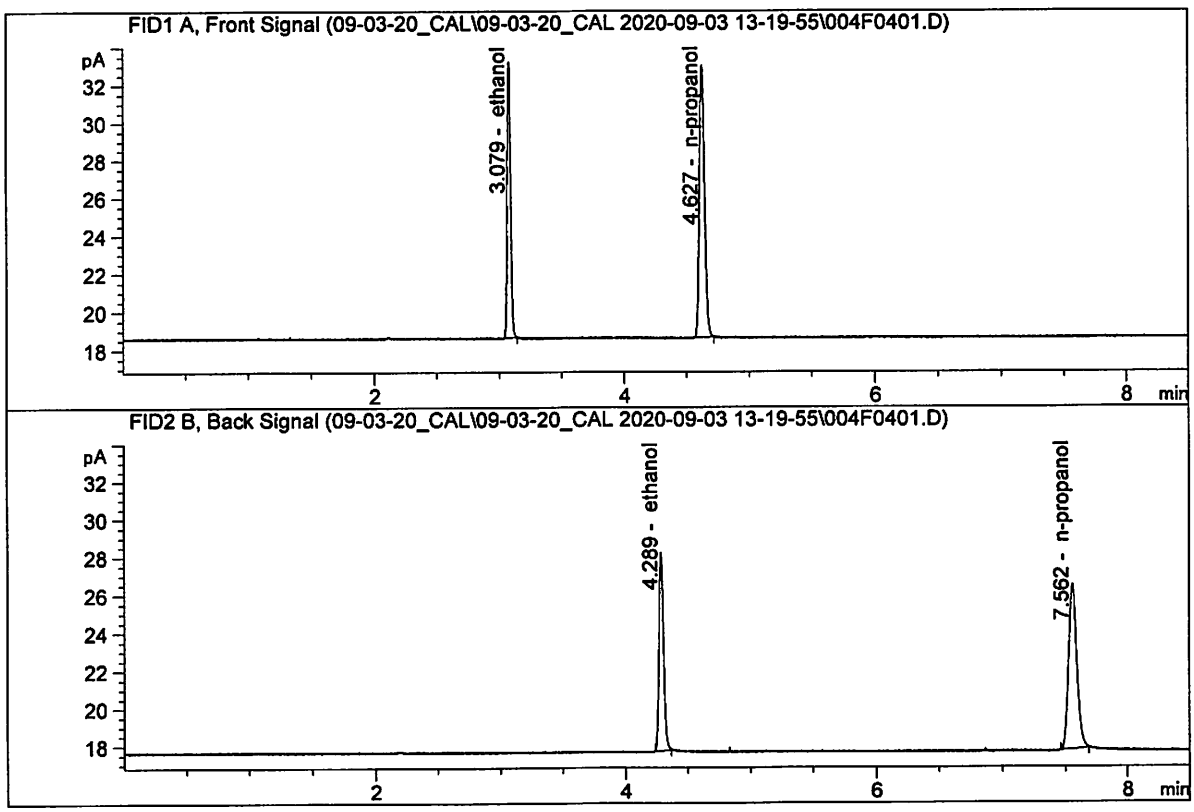
Sample Name : 0.200 FN06231704
Laboratory : Meridian
Injection Date : Sep 3, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 17.73212 | 0.1999 | g/100cc |
| 2. | Ethanol | Column 2: | 18.39215 | 0.1982 | g/100cc |
| 3. | n-Propanol | Column 1: | 40.87630 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 41.86564 | 1.0000 | g/100cc |

# ISP Forensic Services Blood Alcohol Report

Sample Name : 0.300 FN07311804
Laboratory : Meridian
Injection Date : Sep 3, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

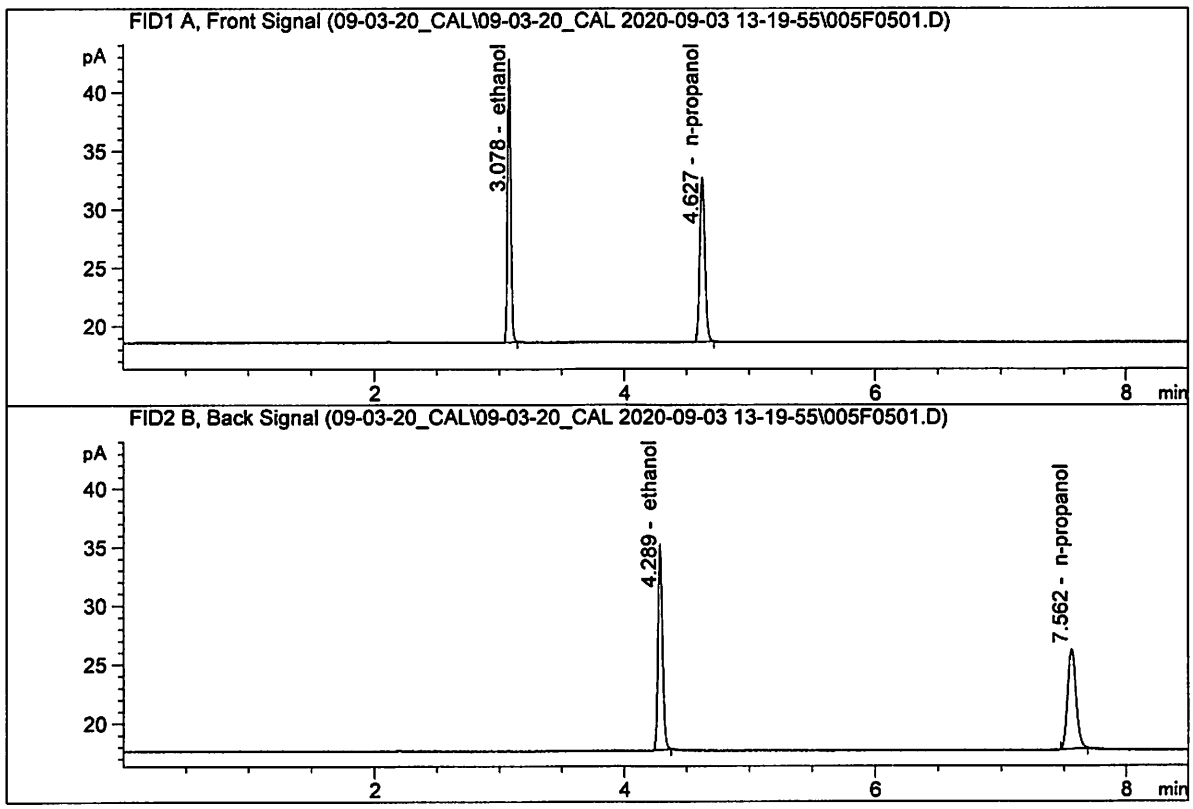



| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 26.66915 | 0.2984 | g/100cc |
| 2. | Ethanol | Column 2: | 27.80130 | 0.2967 | g/100cc |
| 3. | n-Propanol | Column 1: | 41.02362 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 41.85574 | 1.0000 | g/100cc |

MB

# ISP Forensic Services Blood Alcohol Report

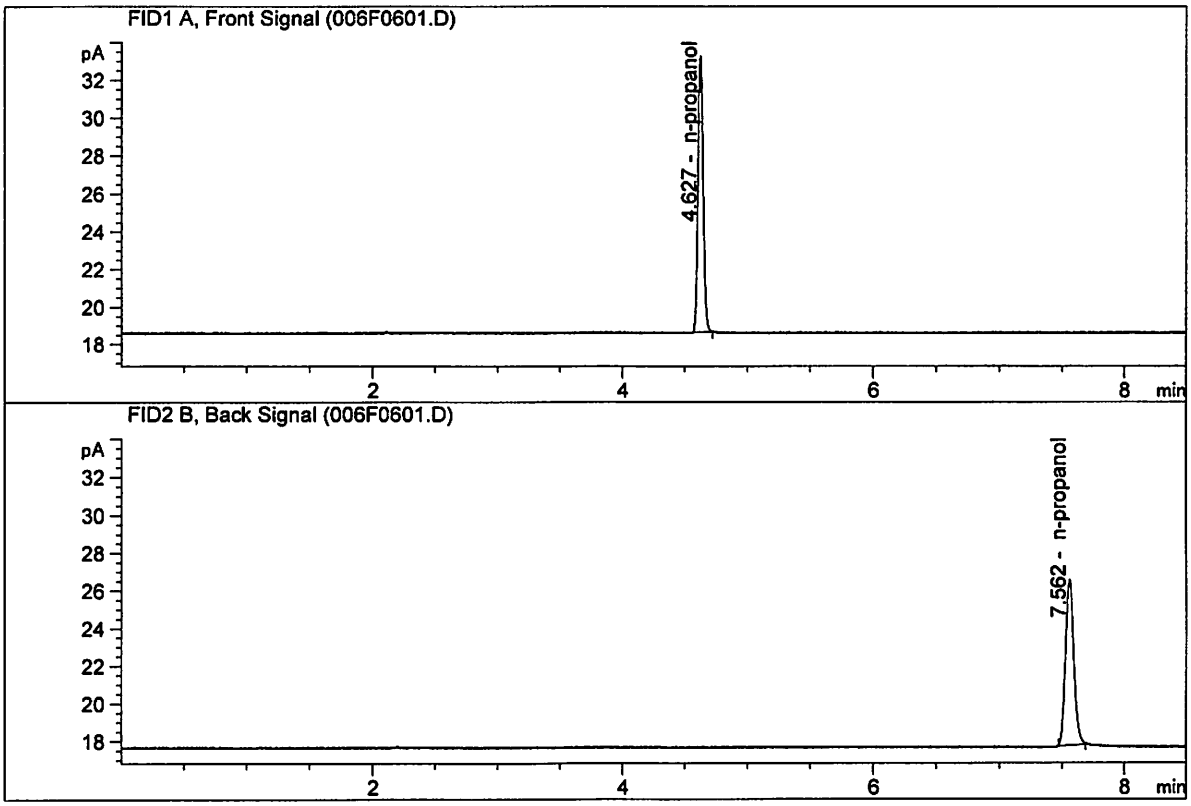
Sample Name : 0.500 FN08241801
Laboratory : Meridian
Injection Date : Sep 3, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 43.90200 | 0.5009 | g/100cc |
| 2. | Ethanol | Column 2: | 46.19029 | 0.5025 | g/100cc |
| 3. | n-Propanol | Column 1: | 40.09966 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 40.71259 | 1.0000 | g/100cc |

# ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STANDARD BLANK
Laboratory : Meridian
Injection Date : Sep 3, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 0.00000 | 0.0000 | g/100cc |
| 2. | Ethanol | Column 2: | 0.00000 | 0.0000 | g/100cc |
| 3. | n-Propanol | Column 1: | 41.64092 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 42.48873 | 1.0000 | g/100cc |

NB

Sequence File C:\Chem32\1\Data\09-03-20_CAL\09-03-20_CAL 2020-09-03 13-19-55\09-03-20_CAL.S

## Sample Summary

Sequence table: C:\Chem32\1\Data\09-03-20_CAL\09-03-20_CAL 2020-09-03 13-19-55\09-03-20_CAL.S
Data directory path: C:\Chem32\1\Data\09-03-20_CAL\09-03-20_CAL 2020-09-03 13-19-55\
Logbook: C:\Chem32\1\Data\09-03-20_CAL\09-03-20_CAL 2020-09-03 13-19-55\09-03-20_CAL.LOG
Sequence start: 9/3/2020 1:34:35 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\09-03-20_CAL\09-03-20_CAL 2020-09-03 13-19-55\ALCOHOL.M

| Run # | Location | Inj # | Sample Name | Sample Amt [g/100cc] | Multip.* Dilution | File name | Cal | # Cmp |
|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 0.050 FN05211804 | - | 1.0000 | 001F0101.D | * | 4 |
| 2 | 2 | 1 | 0.100 FN02271802 | - | 1.0000 | 002F0201.D | * | 4 |
| 3 | 3 | 1 | 0.200 FN06231704 | - | 1.0000 | 003F0301.D | * | 4 |
| 4 | 4 | 1 | 0.300 FN07311804 | - | 1.0000 | 004F0401.D | * | 4 |
| 5 | 5 | 1 | 0.500 FN08241801 | - | 1.0000 | 005F0501.D | * | 4 |
| 6 | 6 | 1 | INTERNAL STANDAR | - | 1.0000 | 006F0601.D | | 2 |

# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: QC1-1** **Analysis Date(s): 03 Sep 2020**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Sample A-B Difference | Over-all Mean |
|---|---|---|---|---|---|---|
| Sample Results | 0.0750 | 0.0760 | 0.0010 | 0.0755 | 0.0000 | 0.0755 |
| (g/100cc) | 0.0752 | 0.0758 | 0.0006 | 0.0755 | | |

**Analysis Method**

**Refer to Blood Alcohol Method #1**

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

Refer to Instrument Method: Alcohol.m

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

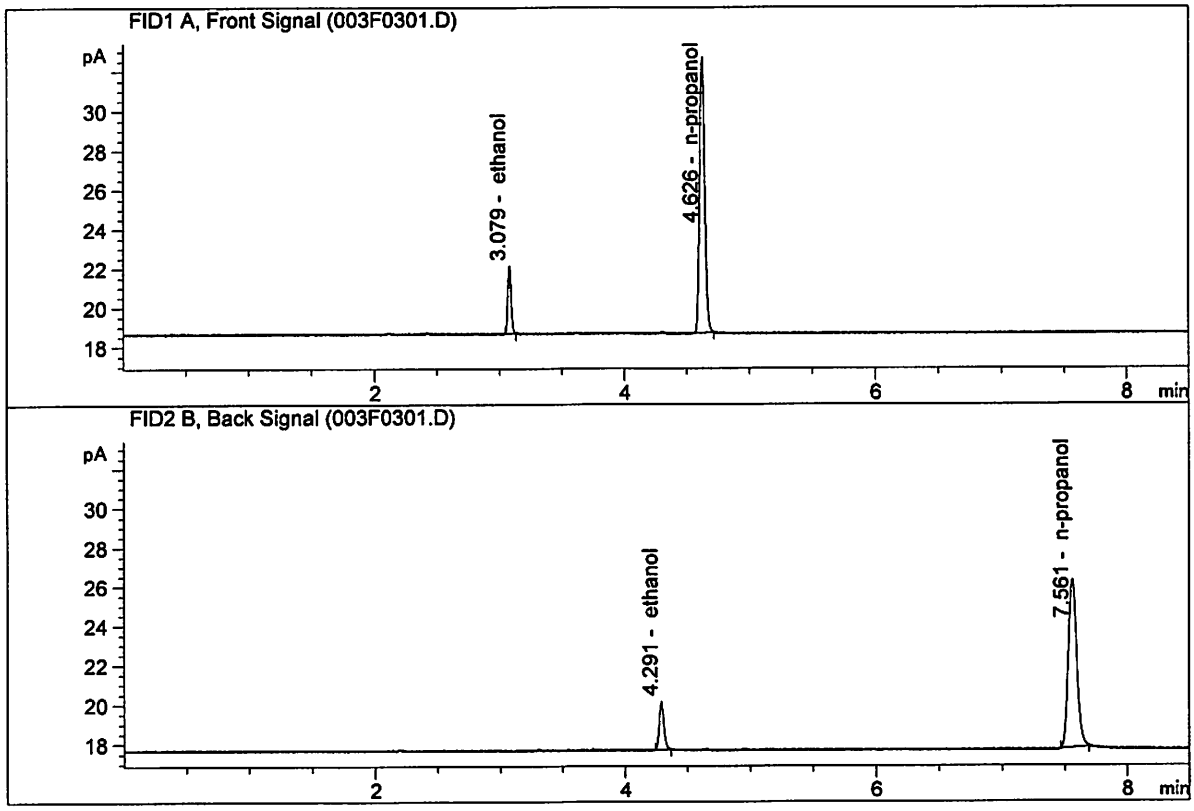
| Overall Mean (g/100cc) | Low | High | 5% of Mean |
|---|---|---|---|
| **0.075** | **0.071** | **0.079** | **0.004** |

| | Reported Result | |
|---|---|---|
| | **0.075** | |

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

# ISP Forensic Services Blood Alcohol Report

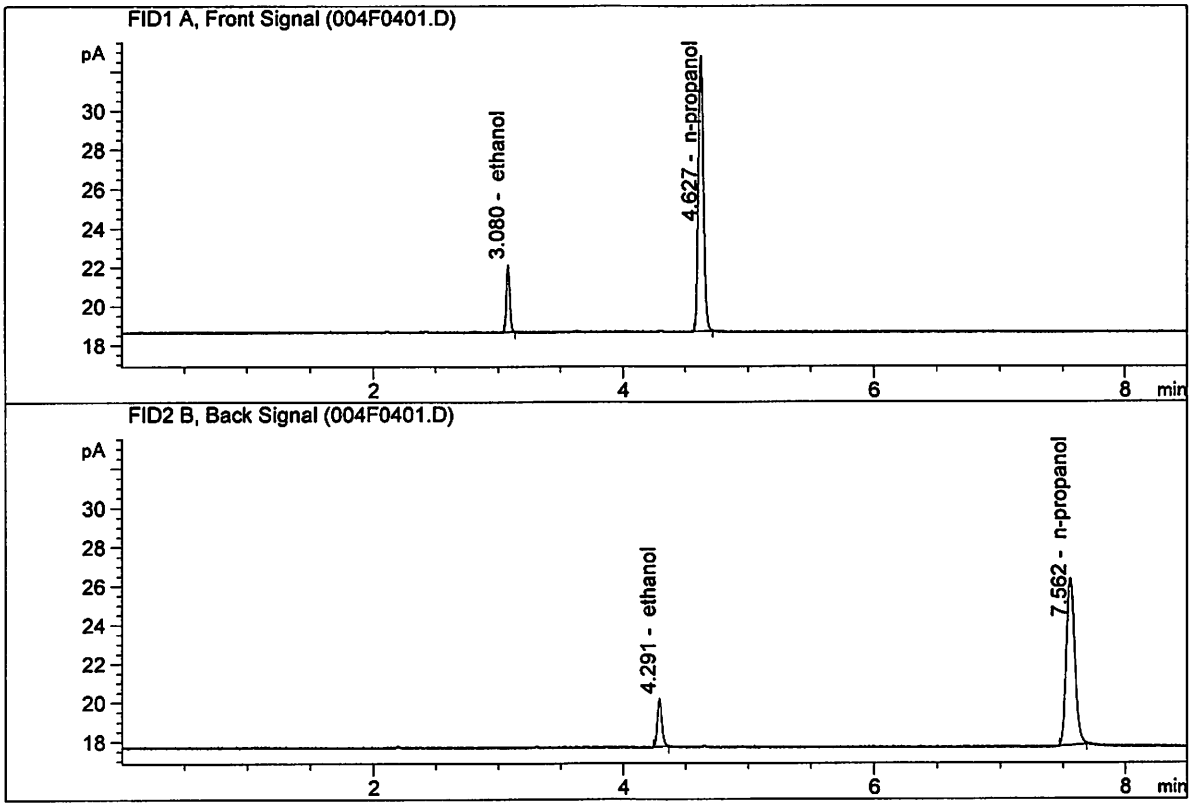
Sample Name : QC1-1-A
Laboratory : Meridian
Injection Date : Sep 3, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 6.37433 | 0.0750 | g/100cc |
| 2. | Ethanol | Column 2: | 6.57792 | 0.0760 | g/100cc |
| 3. | n-Propanol | Column 1: | 39.95022 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 41.10364 | 1.0000 | g/100cc |

# ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
Laboratory : Meridian
Injection Date : Sep 3, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 6.44259 | 0.0752 | g/100cc |
| 2. | Ethanol | Column 2: | 6.58231 | 0.0758 | g/100cc |
| 3. | n-Propanol | Column 1: | 40.28199 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 41.27292 | 1.0000 | g/100cc |

# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: QC1-2** **Analysis Date(s): 04 Sep 2020**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Sample A-B Difference | Over-all Mean |
|---|---|---|---|---|---|---|
| Sample Results | 0.0735 | 0.0743 | 0.0008 | 0.0739 | 0.0005 | 0.0736 |
| (g/100cc) | 0.0728 | 0.0740 | 0.0012 | 0.0734 | | |

**Analysis Method**

**Refer to Blood Alcohol Method #1**

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

Refer to Instrument Method: Alcohol.m

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

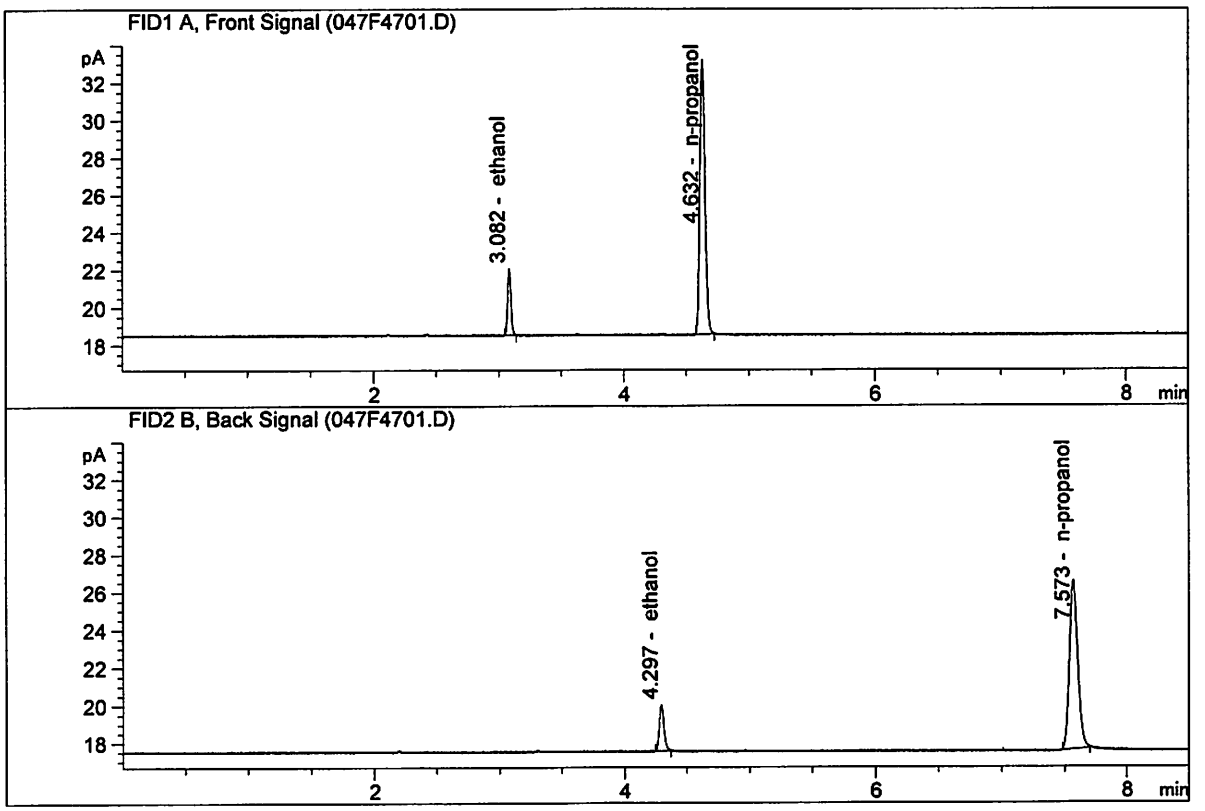
| Overall Mean (g/100cc) | Low | High | 5% of Mean |
|---|---|---|---|
| 0.073 | 0.069 | 0.077 | 0.004 |

| | Reported Result | |
|---|---|---|
| | 0.073 | |

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

# ISP Forensic Services Blood Alcohol Report

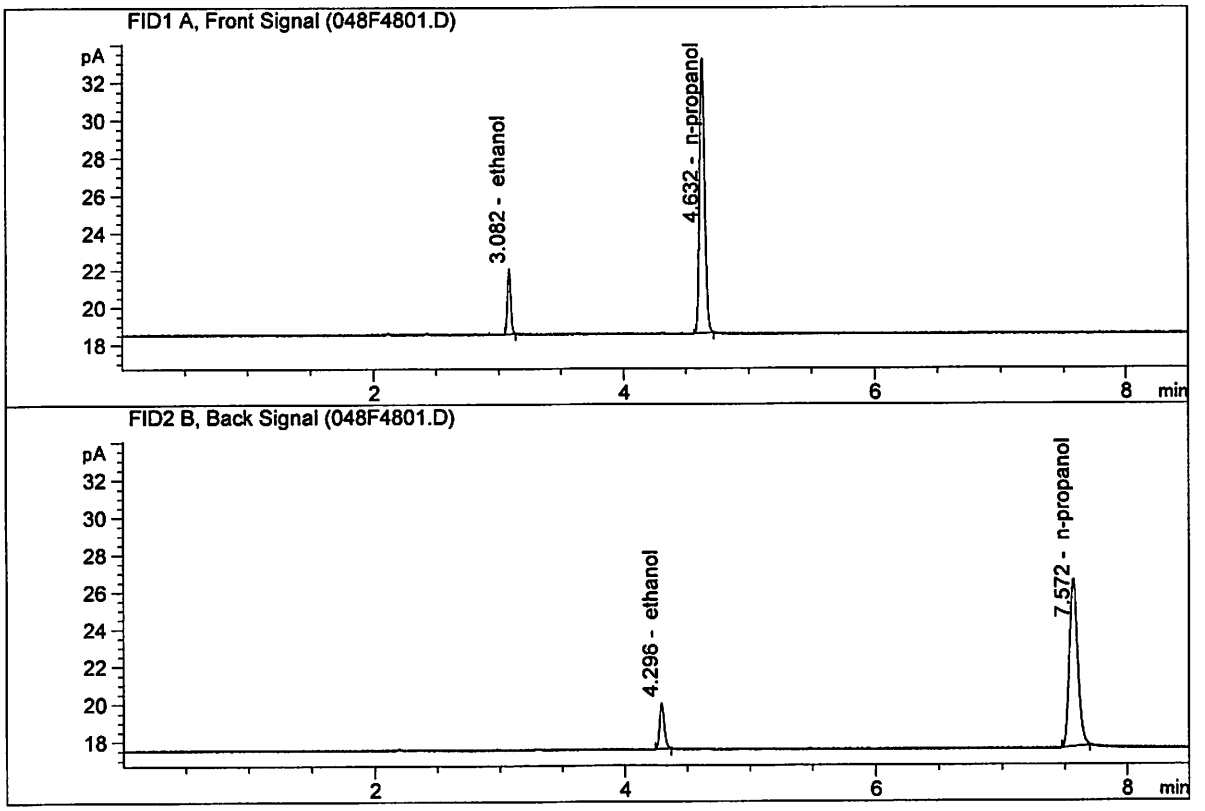
Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : Sep 4, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 6.53967 | 0.0735 | g/100cc |
| 2. | Ethanol | Column 2: | 6.71160 | 0.0743 | g/100cc |
| 3. | n-Propanol | Column 1: | 41.86920 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 42.99441 | 1.0000 | g/100cc |

# ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : Sep 4, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 6.48233 | 0.0728 | g/100cc |
| 2. | Ethanol | Column 2: | 6.71334 | 0.0740 | g/100cc |
| 3. | n-Propanol | Column 1: | 41.92204 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 43.20908 | 1.0000 | g/100cc |

# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: QC2-1** **Analysis Date(s): 03 Sep 2020**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Sample A-B Difference | Over-all Mean |
|---|---|---|---|---|---|---|
| Sample Results | 0.2003 | 0.1994 | 0.0009 | 0.1998 | 0.0009 | 0.2003 |
| (g/100cc) | 0.2009 | 0.2006 | 0.0003 | 0.2007 | | |

**Analysis Method**

**Refer to Blood Alcohol Method #1**

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

Refer to Instrument Method: Alcohol.m

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

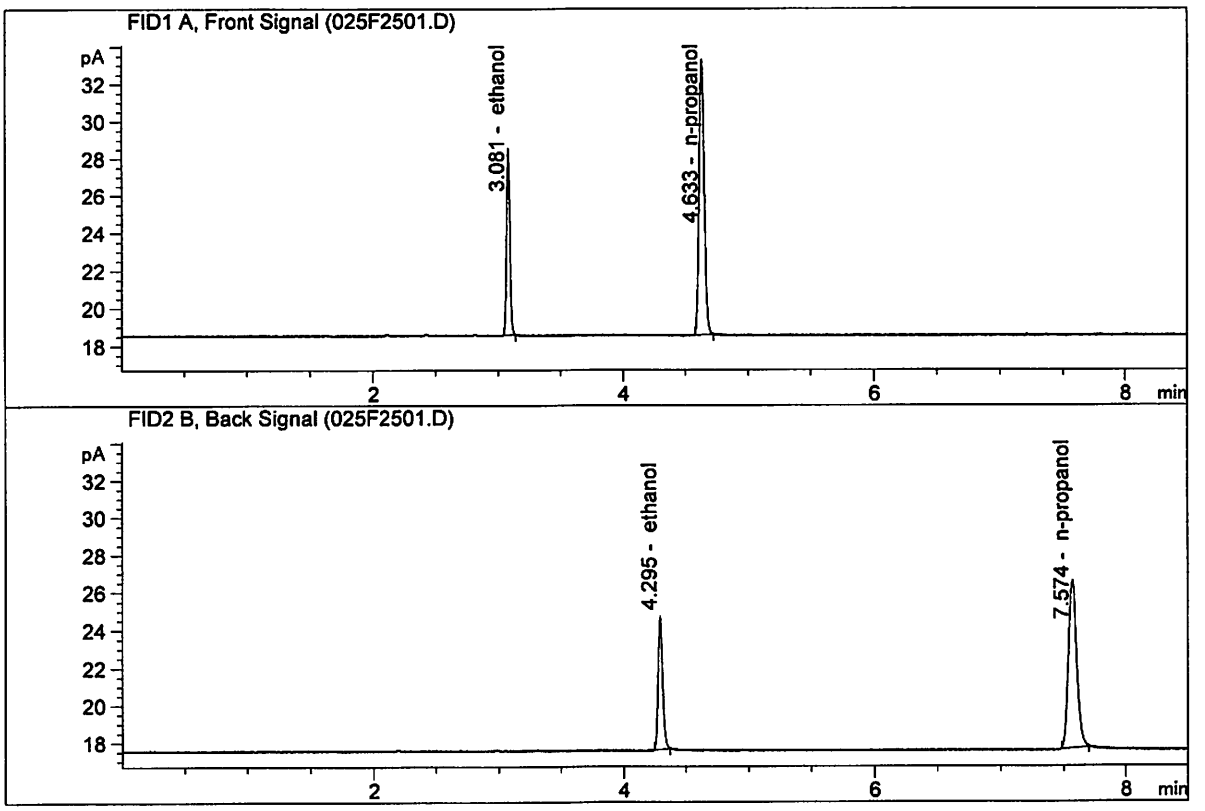
| Overall Mean (g/100cc) | Low | High | 5% of Mean |
|---|---|---|---|
| **0.200** | **0.190** | **0.210** | **0.010** |

| Reported Result |
|---|
| **0.200** |

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

# ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A
Laboratory : Meridian
Injection Date : Sep 3, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

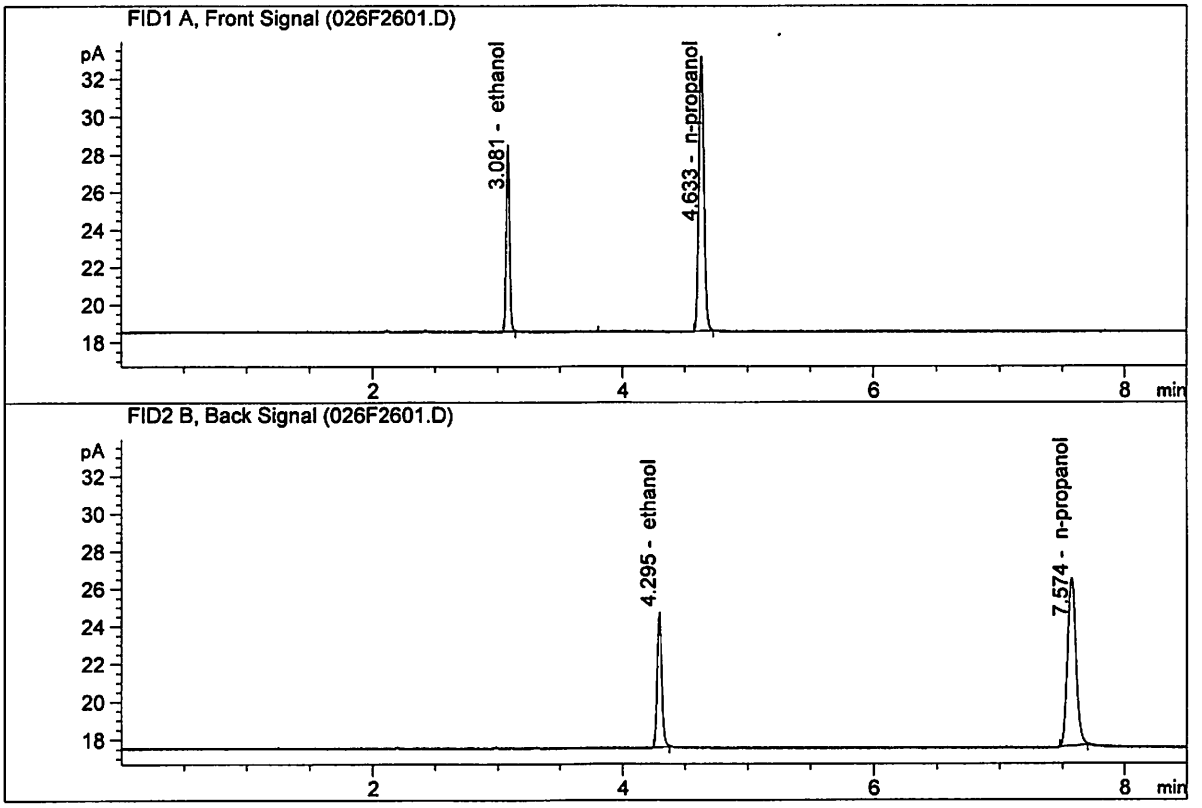



| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 18.25188 | 0.2003 | g/100cc |
| 2. | Ethanol | Column 2: | 19.02520 | 0.1994 | g/100cc |
| 3. | n-Propanol | Column 1: | 41.99362 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 43.05408 | 1.0000 | g/100cc |

NB

# ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
Laboratory : Meridian
Injection Date : Sep 3, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 18.23156 | 0.2009 | g/100cc |
| 2. | Ethanol | Column 2: | 19.05581 | 0.2006 | g/100cc |
| 3. | n-Propanol | Column 1: | 41.81246 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 42.85102 | 1.0000 | g/100cc |

NB

# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: 0.08 FN04171701** **Analysis Date(s): 03 Sep 2020**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Sample A-B Difference | Over-all Mean |
|---|---|---|---|---|---|---|
| Sample Results | 0.0813 | 0.0820 | 0.0007 | 0.0816 | 0.0002 | 0.0815 |
| (g/100cc) | 0.0808 | 0.0820 | 0.0012 | 0.0814 | | |

**Analysis Method**

**Refer to Blood Alcohol Method #1**

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

Refer to Instrument Method: Alcohol.m

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

| Overall Mean (g/100cc) | Low | High | 5% of Mean |
|---|---|---|---|
| 0.081 | 0.076 | 0.086 | 0.005 |

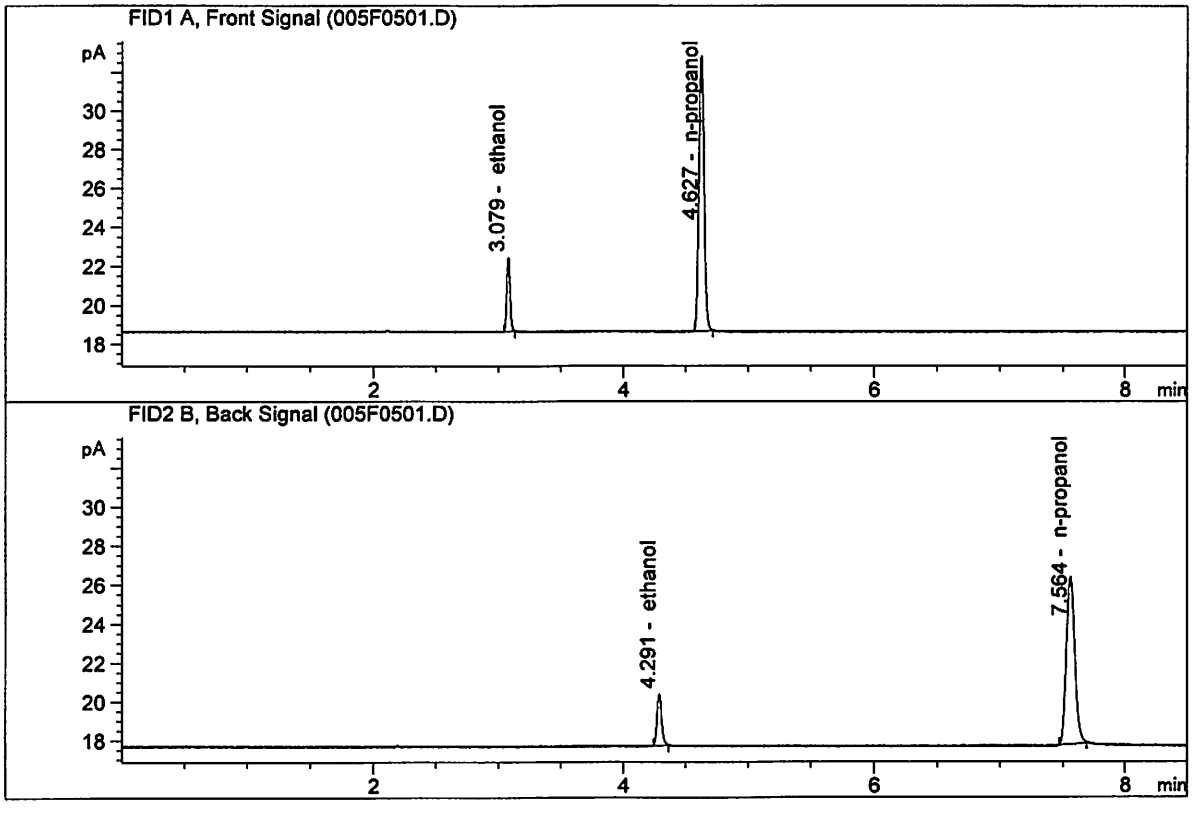
| Reported Result |
|---|
| 0.081 |

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

NB

# ISP Forensic Services Blood Alcohol Report

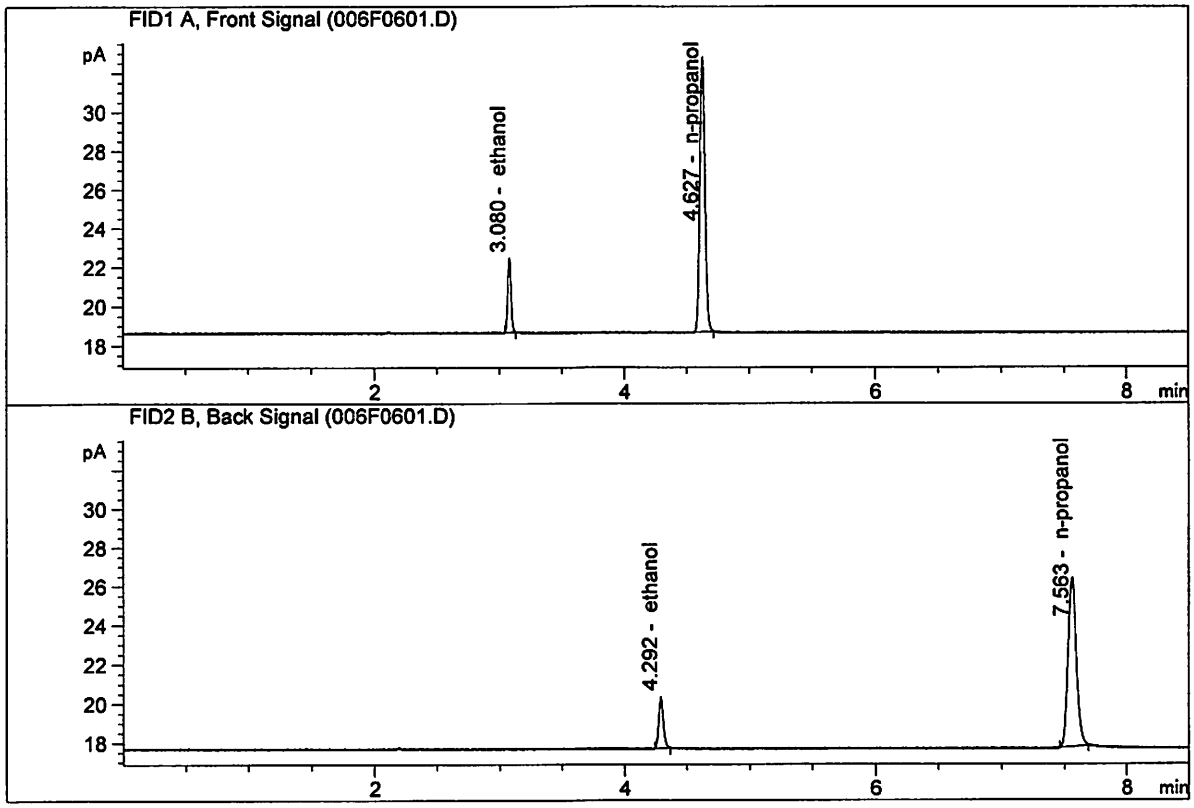
Sample Name : 0.08 FN04171701-A
Laboratory : Meridian
Injection Date : Sep 3, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 7.00751 | 0.0813 | g/100cc |
| 2. | Ethanol | Column 2: | 7.19862 | 0.0820 | g/100cc |
| 3. | n-Propanol | Column 1: | 40.43824 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 41.47297 | 1.0000 | g/100cc |

# ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-B
Laboratory : Meridian
Injection Date : Sep 3, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

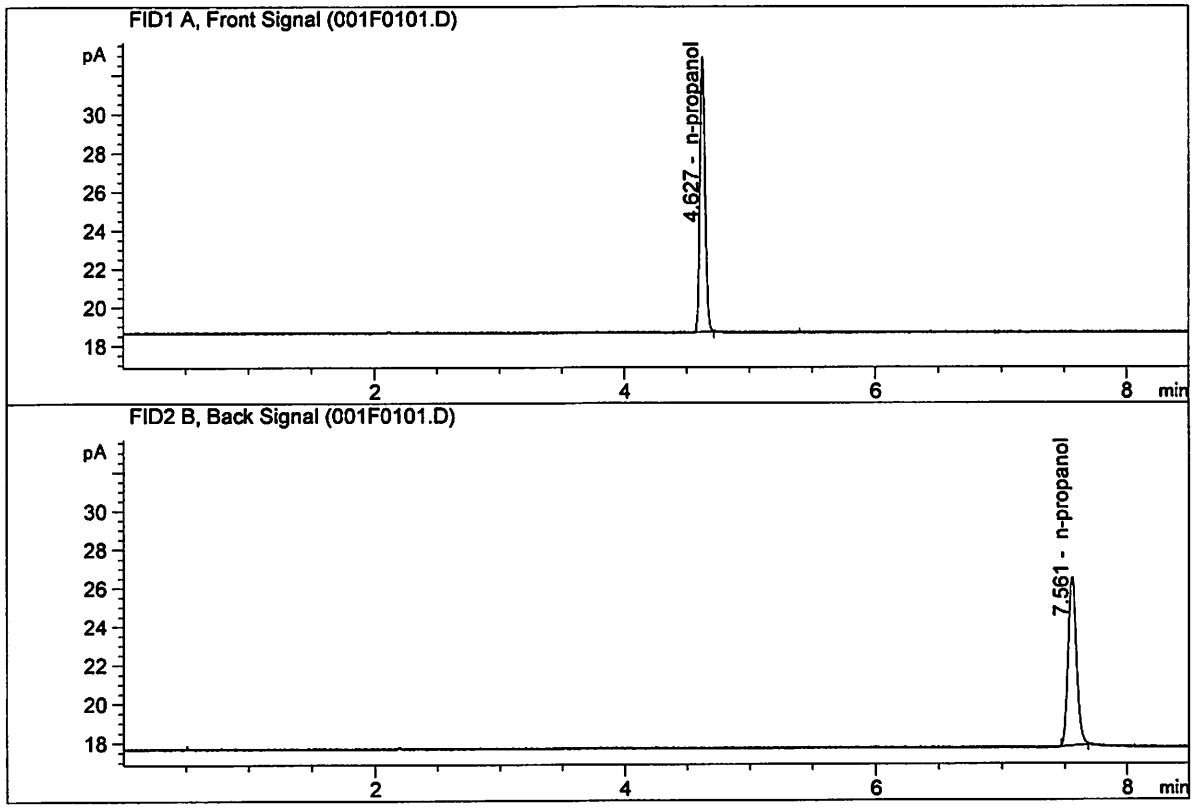



| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 6.93351 | 0.0808 | g/100cc |
| 2. | Ethanol | Column 2: | 7.19094 | 0.0820 | g/100cc |
| 3. | n-Propanol | Column 1: | 40.25801 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 41.41967 | 1.0000 | g/100cc |

NB

# ISP Forensic Services Blood Alcohol Report

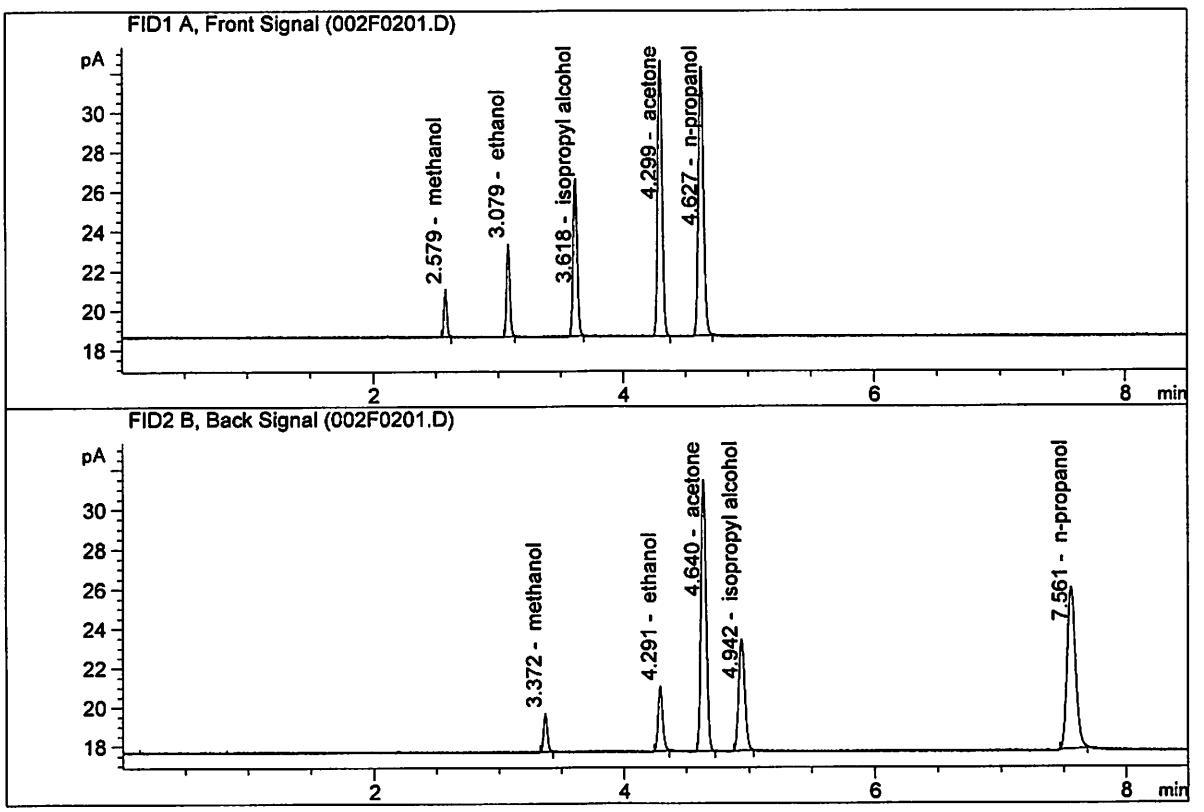
Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Sep 3, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 0.00000 | 0.0000 | g/100cc |
| 2. | Ethanol | Column 2: | 0.00000 | 0.0000 | g/100cc |
| 3. | n-Propanol | Column 1: | 40.55322 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 41.90674 | 1.0000 | g/100cc |

# ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN07101701
Laboratory : Meridian
Injection Date : Sep 3, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

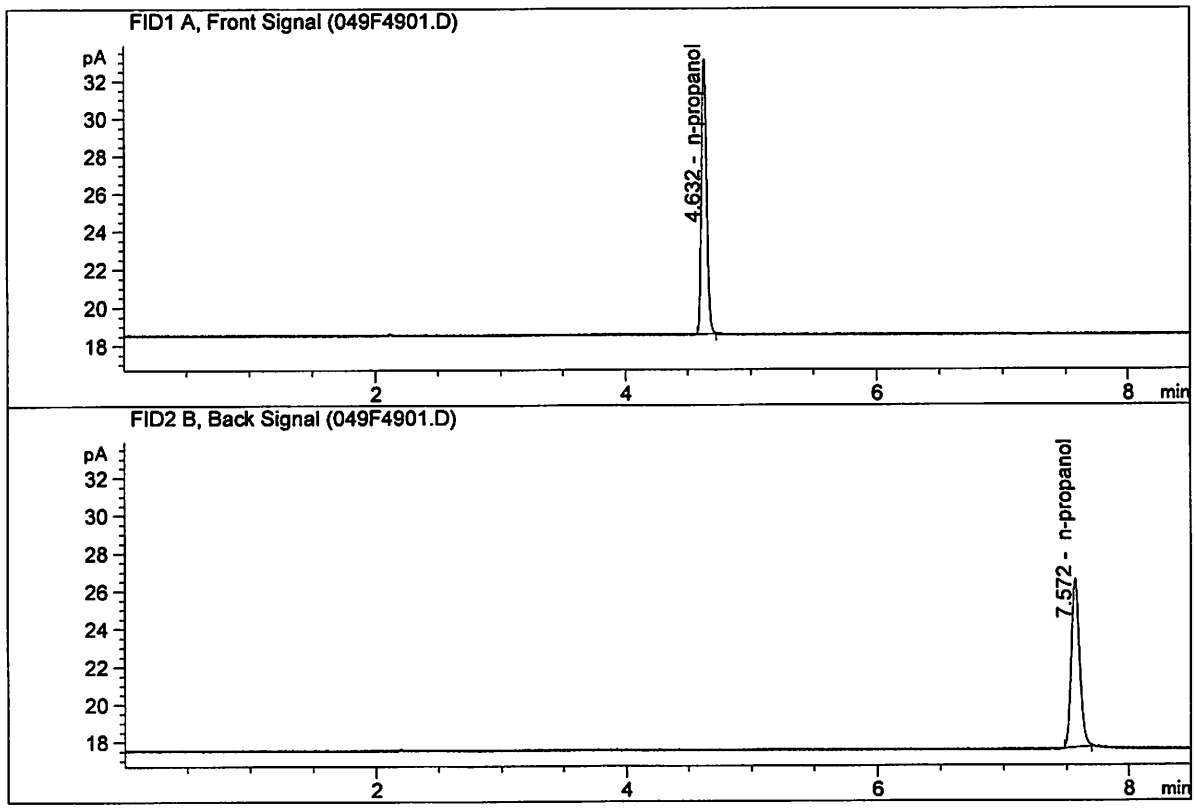



| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 8.60192 | 0.1036 | g/100cc |
| 2. | Ethanol | Column 2: | 8.88040 | 0.1039 | g/100cc |
| 3. | n-Propanol | Column 1: | 38.69347 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 39.69321 | 1.0000 | g/100cc |

NB

# ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Sep 4, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 0.00000 | 0.0000 | g/100cc |
| 2. | Ethanol | Column 2: | 0.00000 | 0.0000 | g/100cc |
| 3. | n-Propanol | Column 1: | 41.64141 | 1.0000 | g/100cc |
| 4. | n-Pròpanol | Column 2: | 42.74518 | 1.0000 | g/100cc |

NB

# Sample Summary

Sequence table: C:\Chem32\1\Data\09-03-20b_SAMPLES\09-03-20b_SAMPLES 2020-09-03 17-19-51\09-03-20b_SAMPLES.S
Data directory path: C:\Chem32\1\Data\09-03-20b_SAMPLES\09-03-20b_SAMPLES 2020-09-03 17-19-51\
Logbook: C:\Chem32\1\Data\09-03-20b_SAMPLES\09-03-20b_SAMPLES 2020-09-03 17-19-51\09-03-20b_SAMPLES.LOG
Sequence start: 9/3/2020 5:34:34 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\09-03-20b_SAMPLES\09-03-20b_SAMPLES 2020-09-03 17-19-51\ALCOHOL.M

| Run # | Location | Inj # | Sample Name | Sample Amt [g/100cc] | Multip.* Dilution | File name | Cal # | Cmp |
|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | INTERNAL STD BLK | - | 1.0000 | 001F0101.D | | 2 |
| 2 | 2 | 1 | MIX VOL FN071017 | - | 1.0000 | 002F0201.D | | 10 |
| 3 | 3 | 1 | QC1-1-A | - | 1.0000 | 003F0301.D | | 4 |
| 4 | 4 | 1 | QC1-1-B | - | 1.0000 | 004F0401.D | | 4 |
| 5 | 5 | 1 | 0.08 FN04171701- | - | 1.0000 | 005F0501.D | | 4 |
| 6 | 6 | 1 | 0.08 FN04171701- | - | 1.0000 | 006F0601.D | | 4 |
| 7 | 7 | 1 | M2020-2310-2-A | - | 1.0000 | 007F0701.D | | 2 |
| 8 | 8 | 1 | M2020-2310-2-B | - | 1.0000 | 008F0801.D | | 2 |
| 9 | 9 | 1 | M2020-3318-1-A | - | 1.0000 | 009F0901.D | | 4 |
| 10 | 10 | 1 | M2020-3318-1-B | - | 1.0000 | 010F1001.D | | 4 |
| 11 | 11 | 1 | M2020-3344-1-A | - | 1.0000 | 011F1101.D | | 2 |
| 12 | 12 | 1 | M2020-3344-1-B | - | 1.0000 | 012F1201.D | | 2 |
| 13 | 13 | 1 | M2020-3351-1-A | - | 1.0000 | 013F1301.D | | 4 |
| 14 | 14 | 1 | M2020-3351-1-B | - | 1.0000 | 014F1401.D | | 4 |
| 15 | 15 | 1 | M2020-3362-1-A | - | 1.0000 | 015F1501.D | | 4 |
| 16 | 16 | 1 | M2020-3362-1-B | - | 1.0000 | 016F1601.D | | 4 |
| 17 | 17 | 1 | M2020-3366-1-A | - | 1.0000 | 017F1701.D | | 4 |
| 18 | 18 | 1 | M2020-3366-1-B | - | 1.0000 | 018F1801.D | | 4 |
| 19 | 19 | 1 | M2020-3376-1-A | - | 1.0000 | 019F1901.D | | 4 |
| 20 | 20 | 1 | M2020-3376-1-B | - | 1.0000 | 020F2001.D | | 4 |
| 21 | 21 | 1 | M2020-3382-2-A | - | 1.0000 | 021F2101.D | | 2 |
| 22 | 22 | 1 | M2020-3382-2-B | - | 1.0000 | 022F2201.D | | 2 |
| 23 | 23 | 1 | M2020-3383-1-A | - | 1.0000 | 023F2301.D | | 5 |
| 24 | 24 | 1 | M2020-3383-1-B | - | 1.0000 | 024F2401.D | | 5 |
| 25 | 25 | 1 | QC2-1-A | - | 1.0000 | 025F2501.D | | 4 |
| 26 | 26 | 1 | QC2-1-B | - | 1.0000 | 026F2601.D | | 4 |
| 27 | 27 | 1 | M2020-3387-1-A | - | 1.0000 | 027F2701.D | | 4 |
| 28 | 28 | 1 | M2020-3387-1-B | - | 1.0000 | 028F2801.D | | 4 |
| 29 | 29 | 1 | M2020-3399-1-A | - | 1.0000 | 029F2901.D | | 4 |
| 30 | 30 | 1 | M2020-3399-1-B | - | 1.0000 | 030F3001.D | | 4 |
| 31 | 31 | 1 | M2020-3400-1-A | - | 1.0000 | 031F3101.D | | 4 |
| 32 | 32 | 1 | M2020-3400-1-B | - | 1.0000 | 032F3201.D | | 4 |
| 33 | 33 | 1 | P2020-2543-1-A | - | 1.0000 | 033F3301.D | | 4 |
| 34 | 34 | 1 | P2020-2543-1-B | - | 1.0000 | 034F3401.D | | 4 |
| 35 | 35 | 1 | P2020-2544-1-A | - | 1.0000 | 035F3501.D | | 4 |
| 36 | 36 | 1 | P2020-2544-1-B | - | 1.0000 | 036F3601.D | | 4 |
| 37 | 37 | 1 | P2020-2574-1-A | - | 1.0000 | 037F3701.D | | 4 |
| 38 | 38 | 1 | P2020-2574-1-B | - | 1.0000 | 038F3801.D | | 4 |
| 39 | 39 | 1 | P2020-2575-1-A | - | 1.0000 | 039F3901.D | | 4 |
| 40 | 40 | 1 | P2020-2575-1-B | - | 1.0000 | 040F4001.D | | 4 |
| 41 | 41 | 1 | P2020-2576-1-A | - | 1.0000 | 041F4101.D | | 4 |
| 42 | 42 | 1 | P2020-2576-1-B | - | 1.0000 | 042F4201.D | | 4 |
| 43 | 43 | 1 | P2020-2590-1-A | - | 1.0000 | 043F4301.D | | 4 |

Sequence File C:\Chem32\...SAMPLES\09-03-20b_SAMPLES 2020-09-03 17-19-51\09-03-20b_SAMPLES.S

| Run # | Location # | Inj # | Sample Name | Sample Amt [g/100cc] | Multip.* Dilution | File name | Cal # Cmp |
|---|---|---|---|---|---|---|---|
| 44 | 44 | 1 | P2020-2590-1-B | - | 1.0000 | 044F4401.D | 4 |
| 45 | 45 | 1 | P2020-2591-1-A | - | 1.0000 | 045F4501.D | 4 |
| 46 | 46 | 1 | P2020-2591-1-B | - | 1.0000 | 046F4601.D | 4 |
| 47 | 47 | 1 | QC1-2-A | - | 1.0000 | 047F4701.D | 4 |
| 48 | 48 | 1 | QC1-2-B | - | 1.0000 | 048F4801.D | 4 |
| 49 | 49 | 1 | INTERNAL STD BLK | - | 1.0000 | 049F4901.D | 2 |

Method file name: C:\Chem32\1\Data\09-03-20b_SAMPLES\09-03-20b_SAMPLES 2020-09-03 17-19-51 \SHUTDOWN.M

| Run # | Location # | Inj # | Sample Name | Sample Amt [g/100cc] | Multip.* Dilution | File name | Cal # Cmp |
|---|---|---|---|---|---|---|---|
| 50 | 50 | 1 | EMPTY | - | 1.0000 | 050F5001.D | 0 |