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

*Analytical Method(s): 1.0*

*Device: Hamilton MICROLAB 600 Liquid Processor/Dilutor Serial Number: ML600HC11378*

**Volatiles Quality Assurance Controls**

**Run Date(s): 5/3/2018**

Calibration Date: 5/2/18

| Control level | Expiration | Lot # | Target Value | Acceptable Range | Overall Results |
|---|---|---|---|---|---|
| Level 1 | Jul-18 | 1407031 | 0.0780 | 0.0702-0.0858 | 0.0771 g/100cc |
| | | | | | 0.0795 g/100cc |
| | | | | | g/100cc |
| Level 2 | Jul-18 | 1407032 | 0.2020 | 0.1818-0.2222 | 0.2035 g/100cc |
| | | | | | g/100cc |
| | | | | | g/100cc |

| | | | | | |
|---|---|---|---|---|---|
| **Multi-Component mixture:** | **Exp date: Sept 2020** | **Lot #** | FN06041503 | | OK |
| **Curve Fit:** | | **Column 1** | 0.99995 | **Column2** | 0.99991 |

| Ethanol Calibration Reference Material | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Calibrator level** | **Expiration** | **Cerilliant Lot #** | **Target Value** | **Acceptable Range** | **Column 1** | **Column 2** | **Precision** | **Mean** |
| 0.050 | Jul-19 | FN06231406 | 0.050 | 0.045 - 0.055 | 0.0510 | 0.0523 | 0.0013 | 0.0516 |
| 0.080 | | | 0.080 | 0.072 - 0.088 | | | 0 | #DIV/0! |
| 0.100 | Jun-20 | FN06181501 | 0.100 | 0.090 - 0.110 | 0.0989 | 0.0991 | 0.0002 | 0.099 |
| 0.200 | Dec-19 | FN12011401 | 0.200 | 0.180 - 0.220 | 0.1982 | 0.1963 | 0.0019 | 0.1972 |
| 0.300 | Feb-21 | FN02121601 | 0.300 | 0.270 - 0.330 | 0.3026 | 0.3021 | 0.0005 | 0.3023 |
| 0.400 | | | 0.400 | 0.360 - 0.440 | | | 0 | #DIV/0! |
| 0.500 | Aug-19 | FN07031402 | 0.500 | 0.450 - 0.550 | 0.4992 | 0.5001 | 0.0009 | 0.4996 |

| Aqueous Controls | | | | | |
|---|---|---|---|---|---|
| **Control level** | **Expiration** | **Cerilliant Lot #** | **Target Value** | **Acceptable Range** | **Overall Results** |
| 0.080 | Nov-20 | FN10281510 | 0.08000 | 0.076 - 0.084 | 0.080 g/100cc |

~Any information on this document can be changed for laboratory use, except for the precision and mean determination fomulas.



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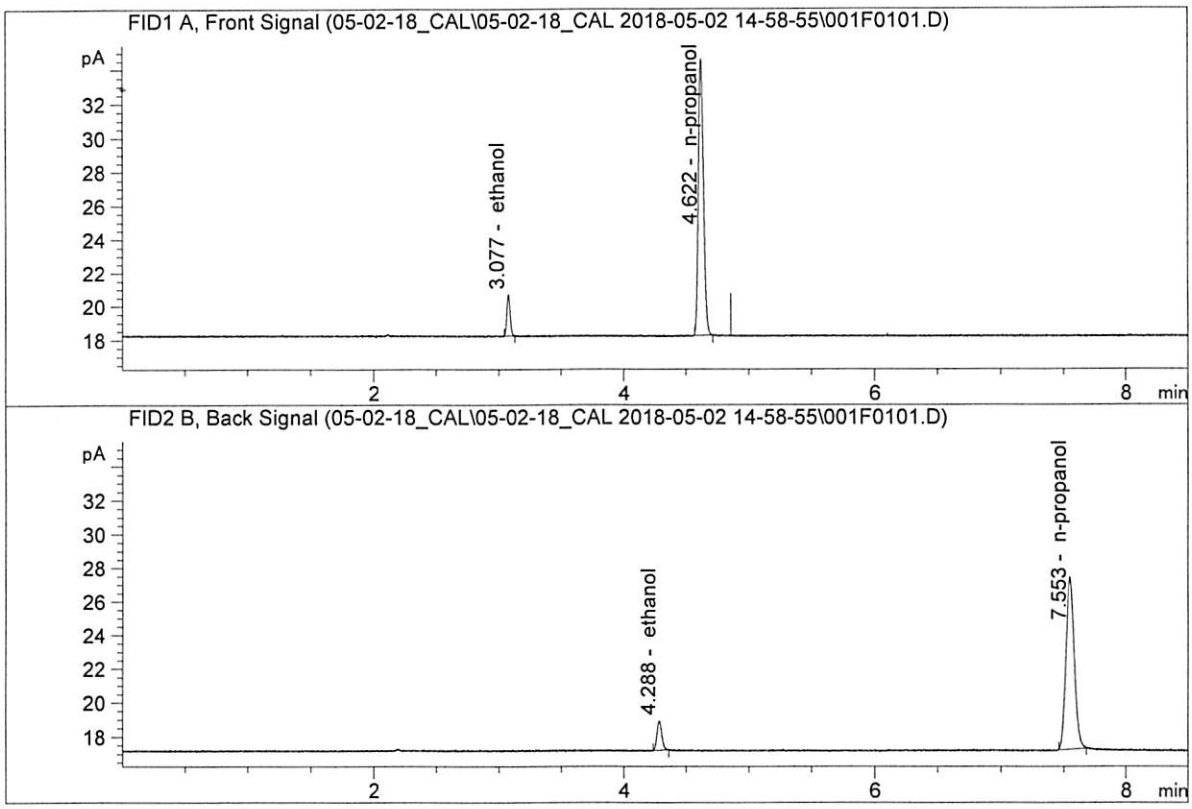
**Worklist: 2376**

| LAB_CASE | ITEM | TASK_ID | DESCRIPTION |
|---|---|---|---|
| M2018-2105 | 1 | 113883 | Alcohol Analysis |
| M2018-2106 | 1 | 113889 | Alcohol Analysis |
| M2018-2107 | 1 | 113893 | Alcohol Analysis |
| M2018-2108 | 1 | 113894 | Alcohol Analysis |
| M2018-2134 | 1 | 114052 | Alcohol Analysis |
| M2018-2135 | 1 | 114054 | Alcohol Analysis |
| M2018-2145 | 1 | 114095 | Alcohol Analysis |
| M2018-2145 | 2 | 114096 | Alcohol Analysis |
| M2018-2156 | 1 | 114146 | Alcohol Analysis |
| M2018-2157 | 1 | 114147 | Alcohol Analysis |
| M2018-2170 | 1 | 114165 | Alcohol Analysis |
| M2018-2171 | 1 | 114166 | Alcohol Analysis |
| M2018-2176 | 1 | 114217 | Alcohol Analysis |
| M2018-2177 | 1 | 114218 | Alcohol Analysis |
| M2018-2206 | 1 | 114353 | Alcohol Analysis |
| M2018-2208 | 1 | 114356 | Alcohol Analysis |
| M2018-2213 | 1 | 114374 | Alcohol Analysis |
| M2018-2214 | 1 | 114375 | Alcohol Analysis |
| M2018-2217 | 1 | 114379 | Alcohol Analysis |

# ISP Forensic Services Blood Alcohol Report

Sample Name : 0.050 FN06231406
Laboratory : Meridian
Injection Date : May 2, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 4.51944 | 0.0510 | g/100cc |
| 2. | Ethanol | Column 2: | 4.65226 | 0.0523 | g/100cc |
| 3. | n-Propanol | Column 1: | 46.43829 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 48.38544 | 1.0000 | g/100cc |

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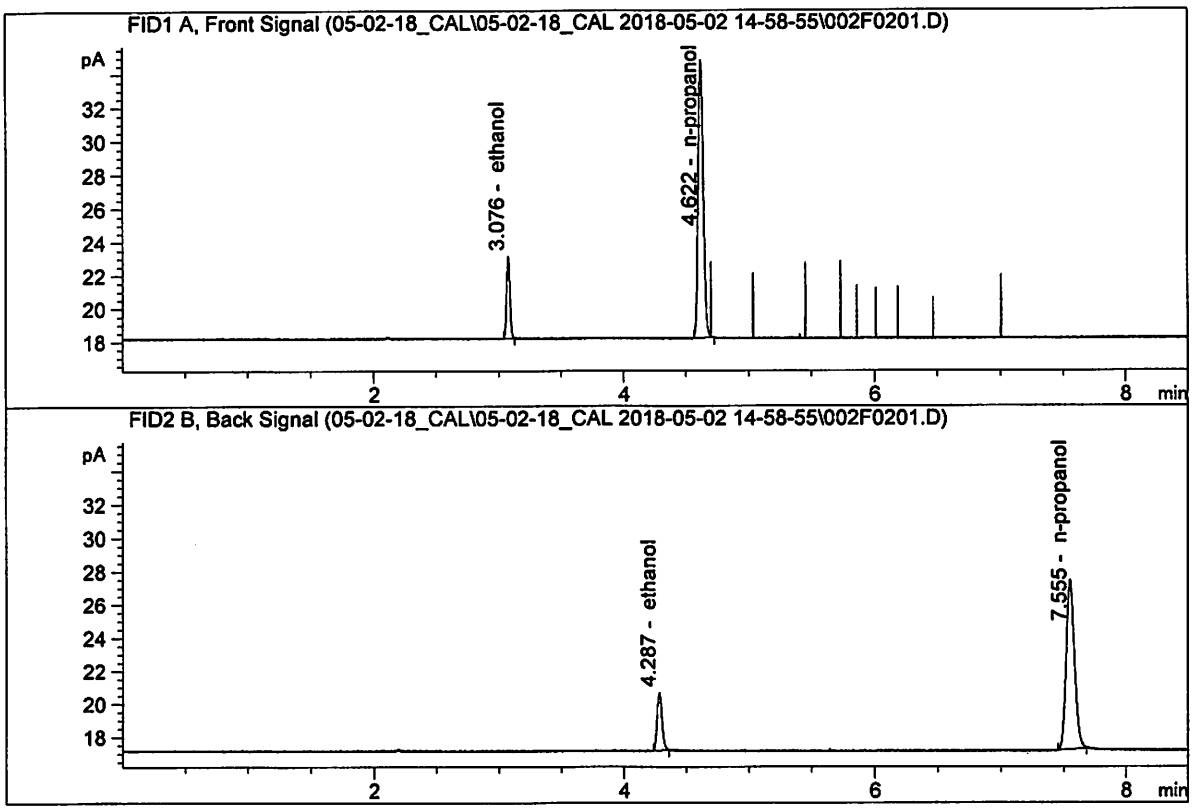
# ISP Forensic Services Blood Alcohol Report

Sample Name : 0.100 FN06181501
Laboratory : Meridian
Injection Date : May 2, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 9.08848 | 0.0989 | g/100cc |
| 2. | Ethanol | Column 2: | 9.36702 | 0.0991 | g/100cc |
| 3. | n-Propanol | Column 1: | 47.58935 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 49.03825 | 1.0000 | g/100cc |

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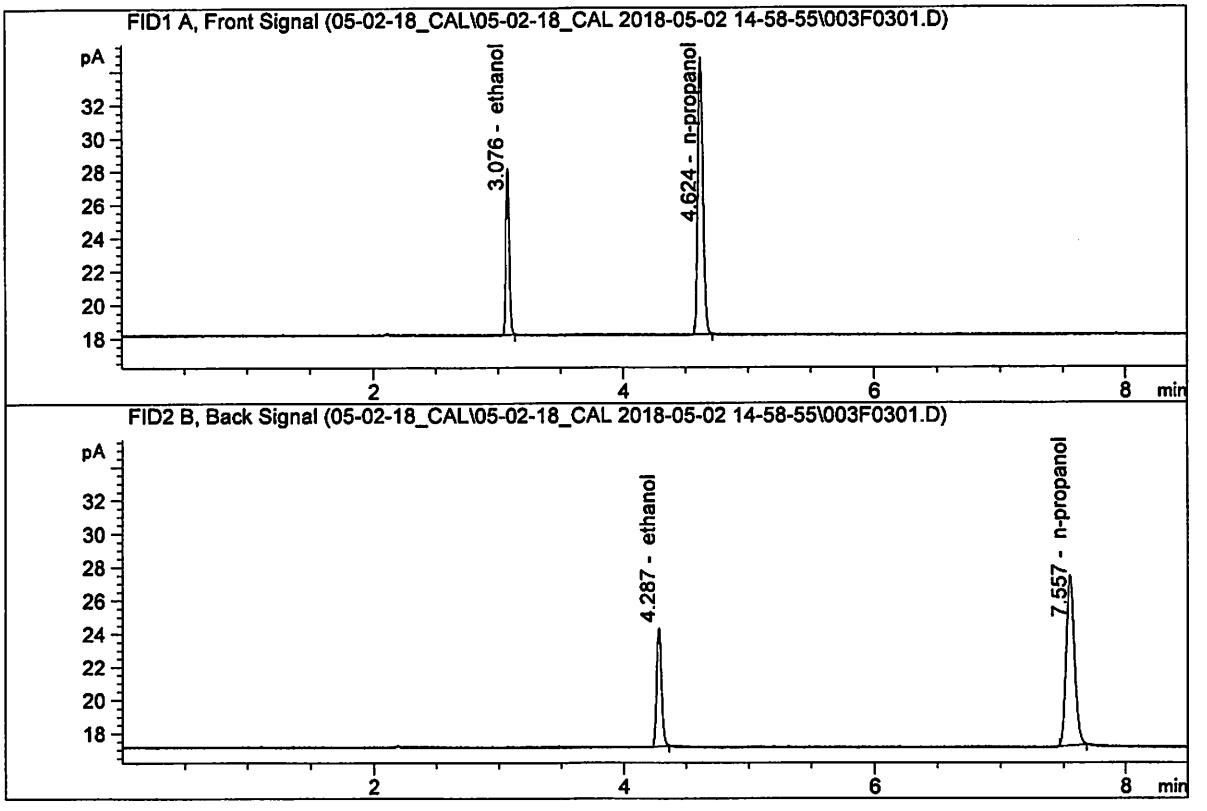
# ISP Forensic Services Blood Alcohol Report

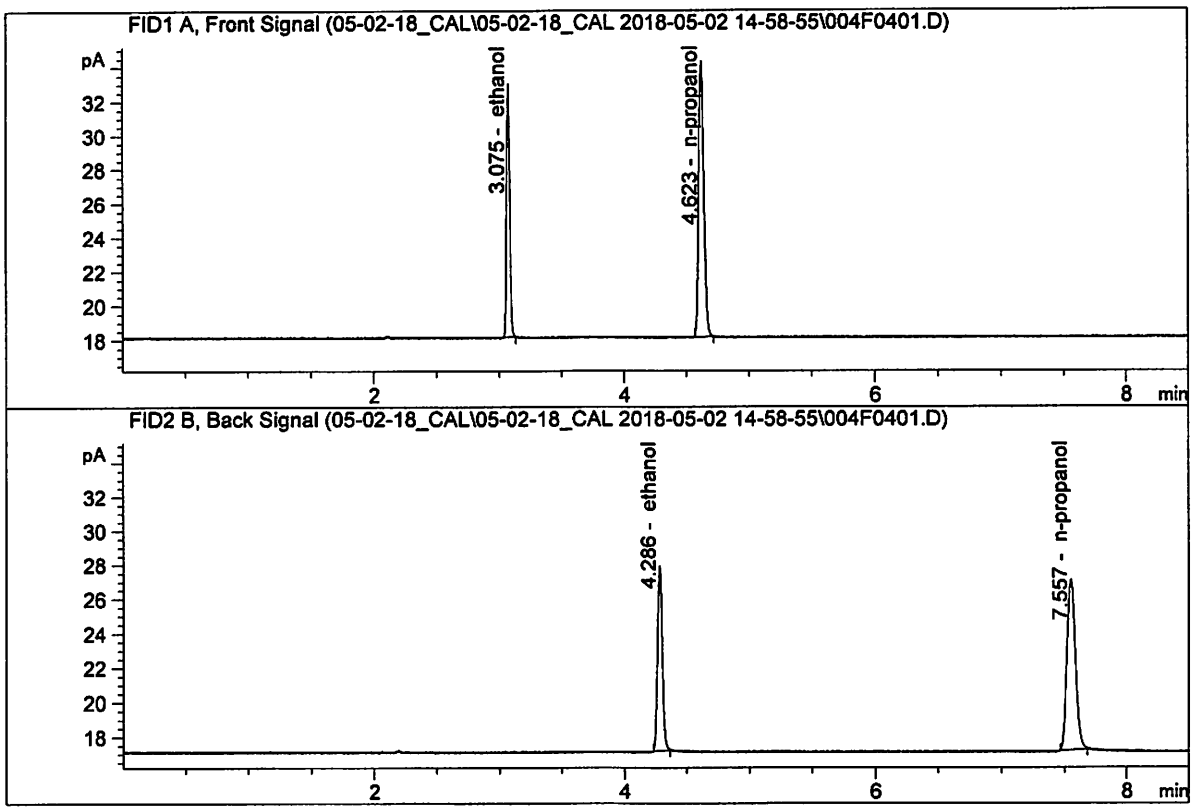
Sample Name : 0.200 FN12011401
Laboratory : Meridian
Injection Date : May 2, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 18.23830 | 0.1982 | g/100cc |
| 2. | Ethanol | Column 2: | 18.96443 | 0.1963 | g/100cc |
| 3. | n-Propanol | Column 1: | 47.32145 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 48.90527 | 1.0000 | g/100cc |

# ISP Forensic Services Blood Alcohol Report

Sample Name : 0.300 FN02121601
Laboratory : Meridian
Injection Date : May 2, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 27.17083 | 0.3026 | g/100cc |
| 2. | Ethanol | Column 2: | 28.50989 | 0.3021 | g/100cc |
| 3. | n-Propanol | Column 1: | 46.07795 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 47.36019 | 1.0000 | g/100cc |

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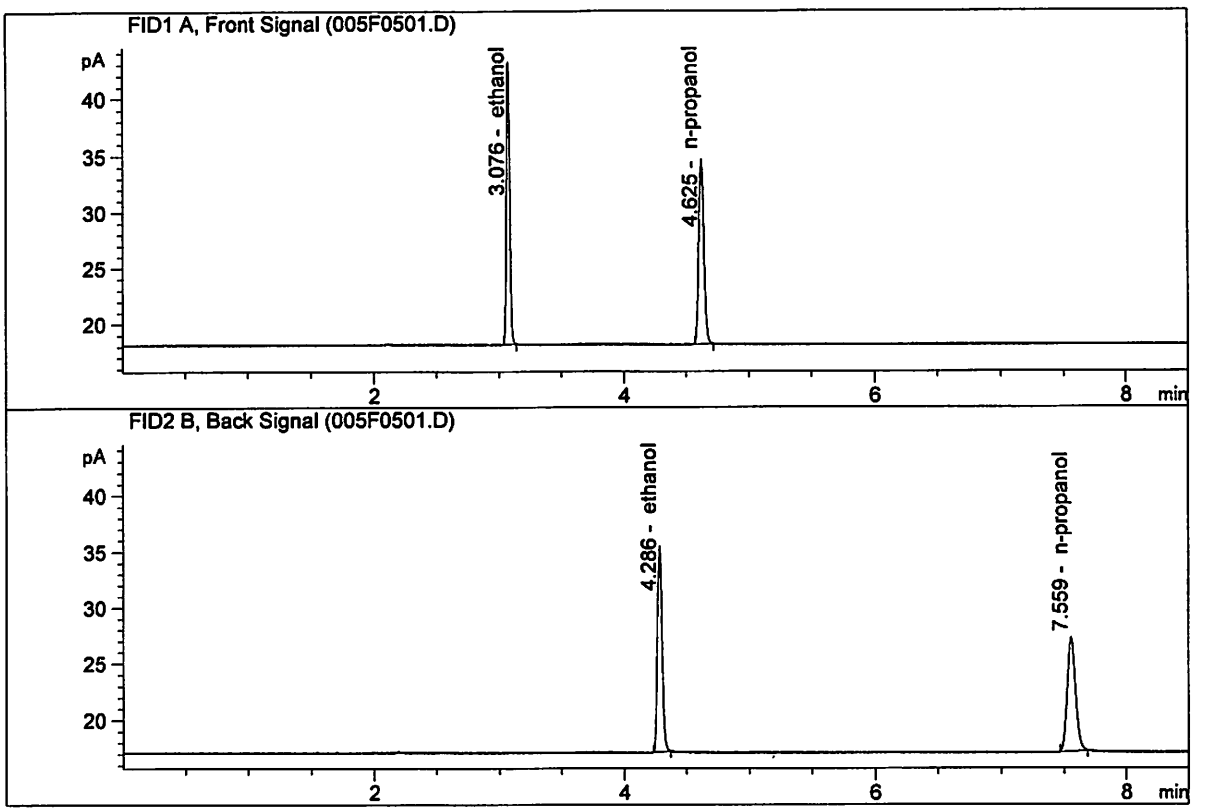
# ISP Forensic Services Blood Alcohol Report

Sample Name : 0.500 FN07031402
Laboratory : Meridian
Injection Date : May 2, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 45.59841 | 0.4992 | g/100cc |
| 2. | Ethanol | Column 2: | 48.28486 | 0.5001 | g/100cc |
| 3. | n-Propanol | Column 1: | 46.80014 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 48.14449 | 1.0000 | g/100cc |

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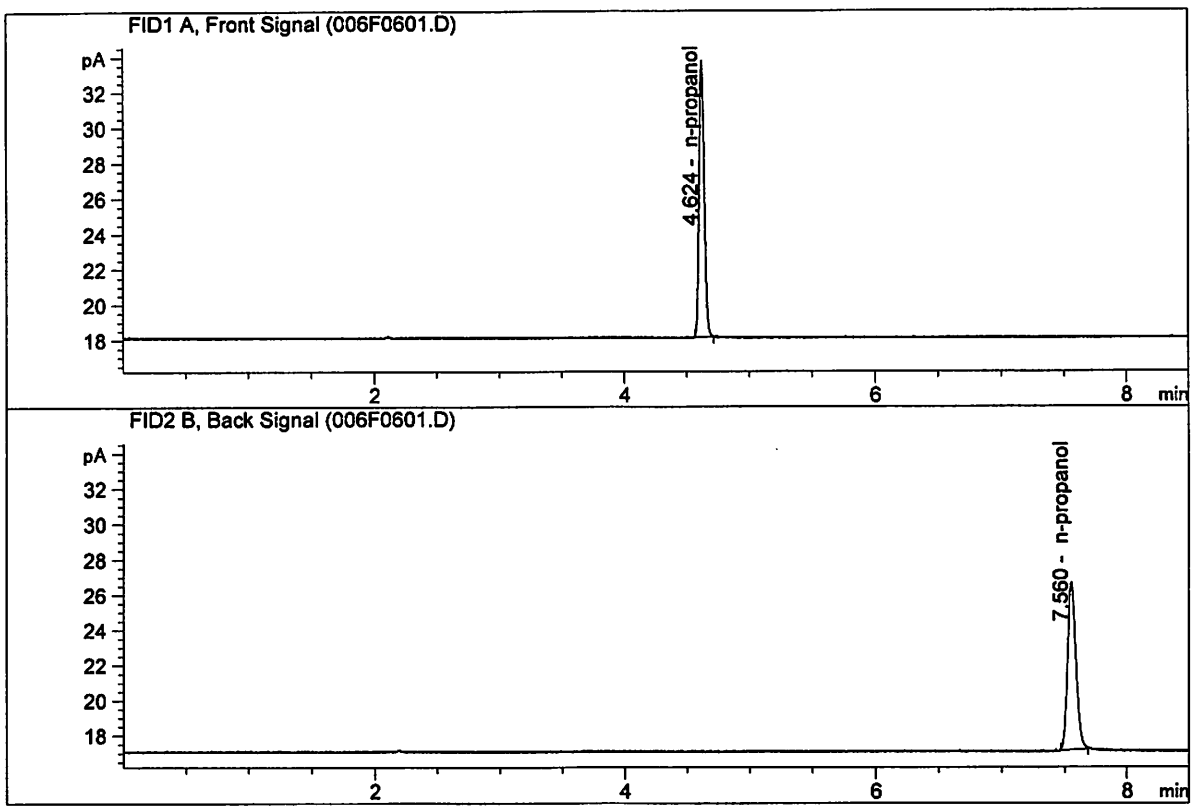
# ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STANDARD BLANK
Laboratory : Meridian
Injection Date : May 2, 2018
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: | 44.40972 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 45.62799 | 1.0000 | g/100cc |

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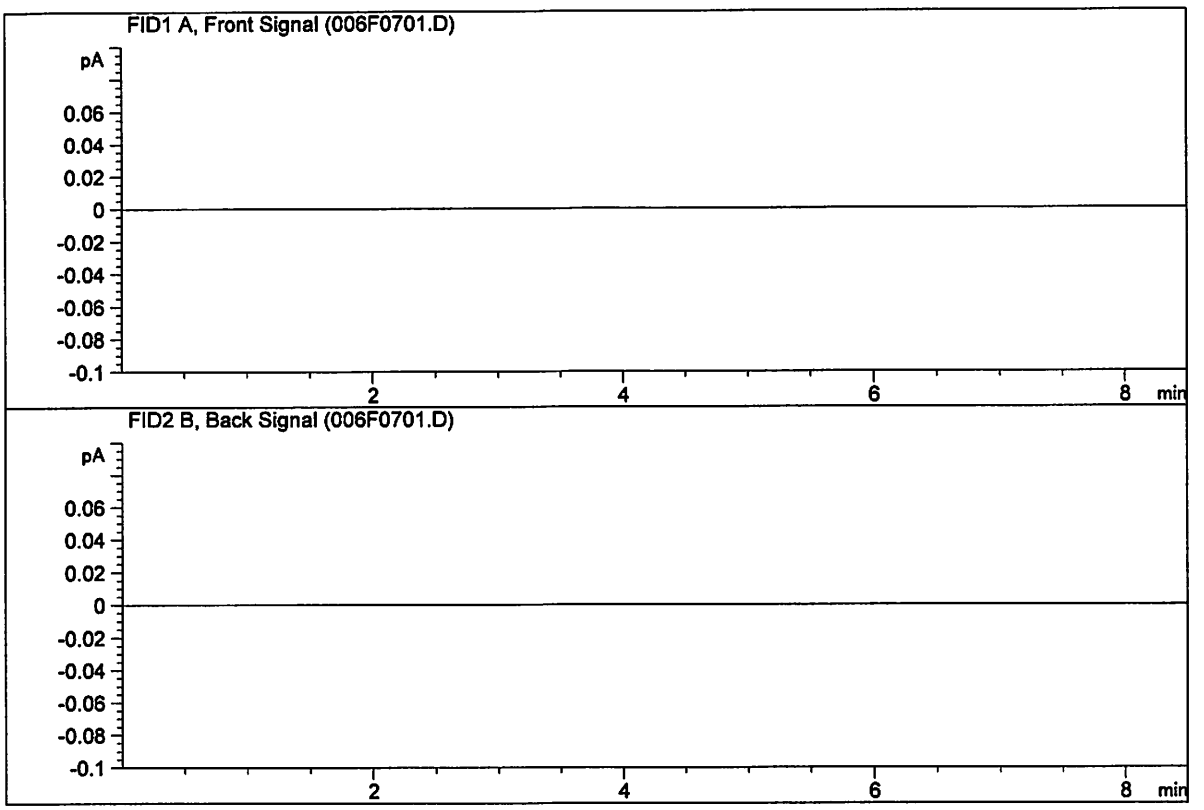
# ISP Forensic Services Blood Alcohol Report

Sample Name : BLANK
Laboratory : Meridian
Injection Date : May 2, 2018
Method : SHUTDOWN.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: | 0.00000 | 0.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 0.00000 | 0.0000 | g/100cc |

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Sequence File C:\Chem32\1\Data\05-02-18_CAL\05-02-18_CAL 2018-05-02 14-58-55\05-02-18_CAL.S

## Sample Summary

Sequence table: C:\Chem32\1\Data\05-02-18_CAL\05-02-18_CAL 2018-05-02 14-58-55\05-02-18_CAL.S
Data directory path: C:\Chem32\1\Data\05-02-18_CAL\05-02-18_CAL 2018-05-02 14-58-55\
Logbook: C:\Chem32\1\Data\05-02-18_CAL\05-02-18_CAL 2018-05-02 14-58-55\05-02-18_CAL.LOG
Sequence start: 5/2/2018 3:13:33 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\05-02-18_CAL\05-02-18_CAL 2018-05-02 14-58-55\ALCOHOL.M

| Run # | Location # | Inj # | Sample Name | Sample Amt [g/100cc] | Multip.* Dilution | File name | Cal | # Cmp |
|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 0.050 FN06231406 | - | 1.0000 | 001F0101.D | * | 4 |
| 2 | 2 | 1 | 0.100 FN06181501 | - | 1.0000 | 002F0201.D | * | 4 |
| 3 | 3 | 1 | 0.200 FN12011401 | - | 1.0000 | 003F0301.D | * | 4 |
| 4 | 4 | 1 | 0.300 FN02121601 | - | 1.0000 | 004F0401.D | * | 4 |
| 5 | 5 | 1 | 0.500 FN07031402 | - | 1.0000 | 005F0501.D | * | 4 |
| 6 | 6 | 1 | INTERNAL STANDAR | - | 1.0000 | 006F0601.D | | 2 |

Method file name: C:\Chem32\1\Data\05-02-18_CAL\05-02-18_CAL 2018-05-02 14-58-55\SHUTDOWN.M

| Run # | Location # | Inj # | Sample Name | Sample Amt [g/100cc] | Multip.* Dilution | File name | Cal | # Cmp |
|---|---|---|---|---|---|---|---|---|
| 7 | 6 | 1 | BLANK | - | 1.0000 | 006F0701.D | | 0 |



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## Calibration Table

### General Calibration Setting

Calib. Data Modified : Wednesday, May 02, 2018 4:04:05 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 | 4.51944 | 1.10633e-2 | No | No | 1 | ethanol |
| | | 2 | 1.00000e-1 | 9.08848 | 1.10029e-2 | | | | |
| | | 3 | 2.00000e-1 | 18.23830 | 1.09659e-2 | | | | |
| | | 4 | 3.00000e-1 | 27.17083 | 1.10413e-2 | | | | |
| | | 5 | 5.00000e-1 | 45.59841 | 1.09653e-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 | 4.65226 | 1.07475e-2 | No | No | 2 | ethanol |
| | | 2 | 1.00000e-1 | 9.36702 | 1.06758e-2 | | | | |
| | | 3 | 2.00000e-1 | 18.96443 | 1.05461e-2 | | | | |
| | | 4 | 3.00000e-1 | 28.50989 | 1.05227e-2 | | | | |
| | | 5 | 5.00000e-1 | 48.28486 | 1.03552e-2 | | | | |
| 4.308 | 1 | 1 | 1.00000 | 6.49940 | 1.53860e-1 | No | No | 1 | acetone |
| 4.620 | 1 | 1 | 1.00000 | 46.43829 | 2.15340e-2 | No | Yes | 1 | n-propanol |
| | | 2 | 1.00000 | 47.58935 | 2.10131e-2 | | | | |
| | | 3 | 1.00000 | 47.32145 | 2.11321e-2 | | | | |
| | | 4 | 1.00000 | 46.07795 | 2.17024e-2 | | | | |
| | | 5 | 1.00000 | 46.80014 | 2.13675e-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 | 48.38544 | 2.06674e-2 | No | Yes | 2 | n-propanol |
| | | 2 | 1.00000 | 49.03825 | 2.03922e-2 | | | | |
| | | 3 | 1.00000 | 48.90527 | 2.04477e-2 | | | | |
| | | 4 | 1.00000 | 47.36019 | 2.11148e-2 | | | | |
| | | 5 | 1.00000 | 48.14449 | 2.07708e-2 | | | | |

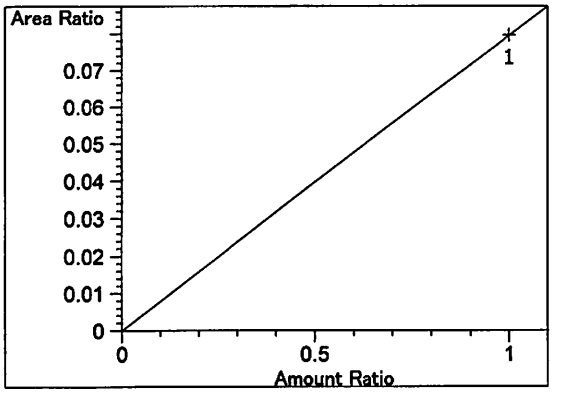
Peak Sum Table

***No Entries in table***

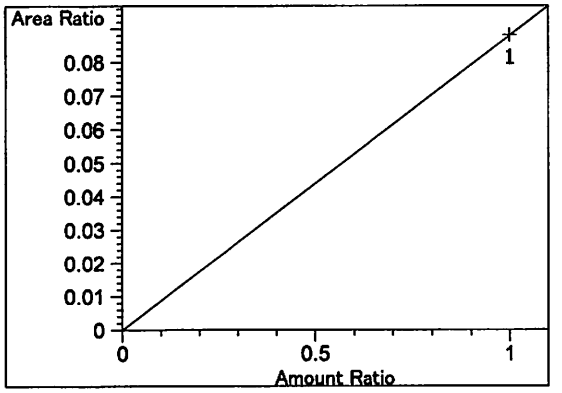
41 Warnings or Errors (10 first messages follow) :

Warning : Curve requires more calibration points., (methanol)
Warning : Curve requires more calibration points. at 2.586 min, signal 1
Warning : Curve requires more calibration points. at 2.809 min, signal 1
Warning : Curve requires more calibration points. at 2.977 min, signal 2
Warning : Curve requires more calibration points. at 3.388 min, signal 2
Warning : Curve requires more calibration points. at 3.628 min, signal 1
Warning : Curve requires more calibration points. at 4.308 min, signal 1
Warning : Curve requires more calibration points. at 4.62 min, signal 1
Warning : Curve requires more calibration points. at 4.661 min, signal 2
Warning : Curve requires more calibration points. at 4.969 min, signal 2

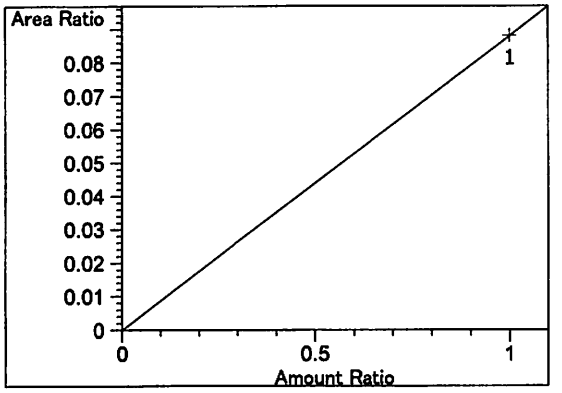
## Calibration Curves



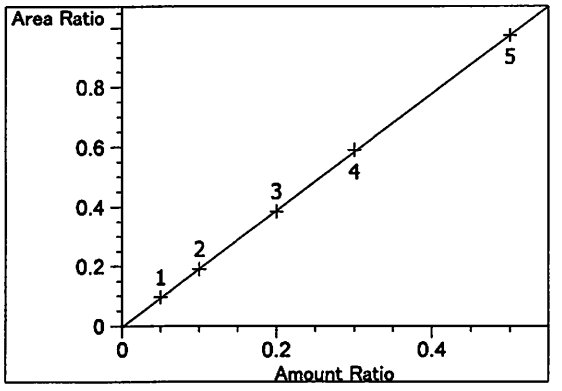

methanol at exp. RT: 2.586
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 7.96045e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio




Acetaldehyde at exp. RT: 2.809
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.80637e-2
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: 8.80637e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio




ethanol at exp. RT: 3.075
FID1 A, Front Signal
Correlation: 0.99995
Residual Std. Dev.: 0.00406
Formula: y = mx + b
m: 1.95654
b: -2.46237e-3
x: Amount Ratio
y: Area Ratio

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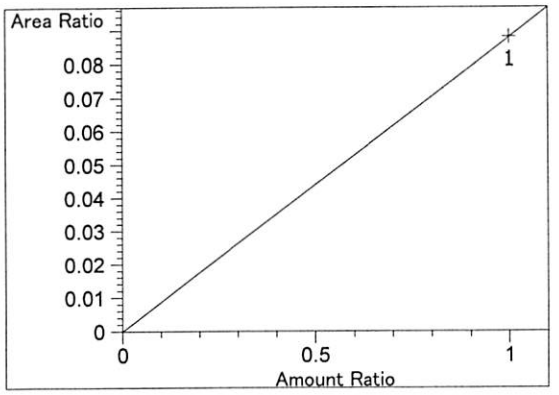
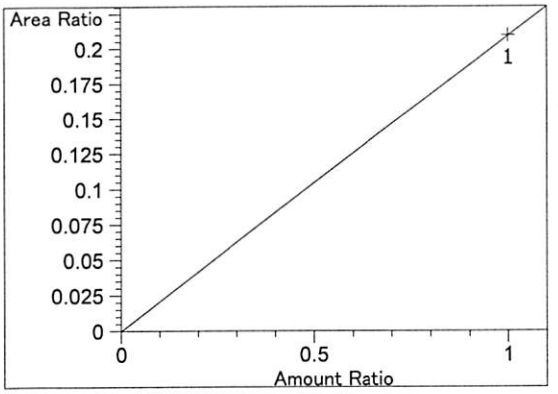
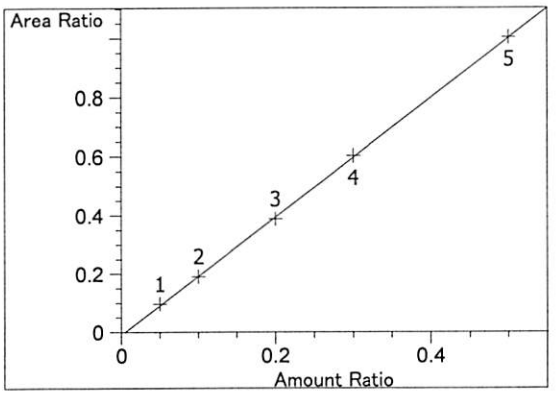


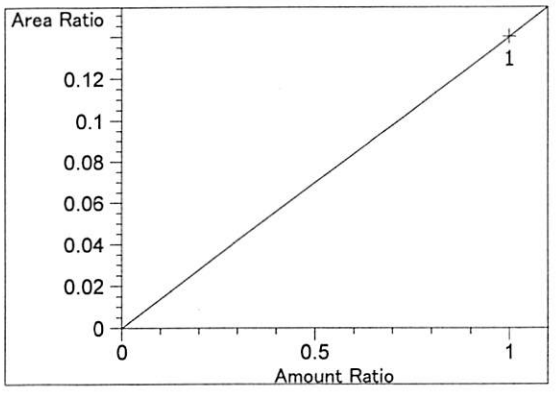

methanol at exp. RT: 3.388
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.80559e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio




isopropyl alcohol at exp. RT: 3.628
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 2.09537e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio




ethanol at exp. RT: 4.285
FID2 B, Back Signal
Correlation: 0.99991
Residual Std. Dev.: 0.00573
Formula: y = mx + b
m: 2.02464
b: -9.69879e-3
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: 1.39958e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

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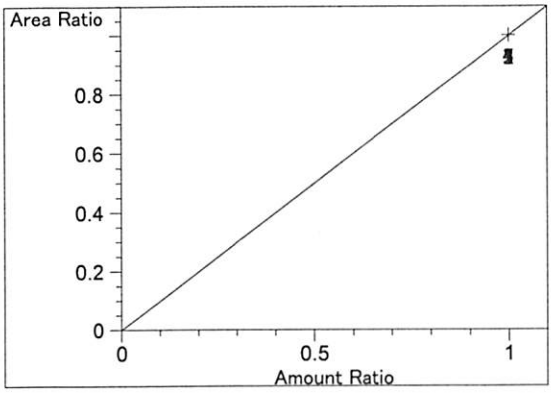
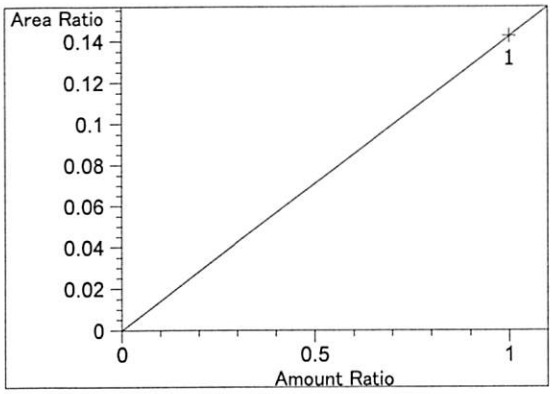
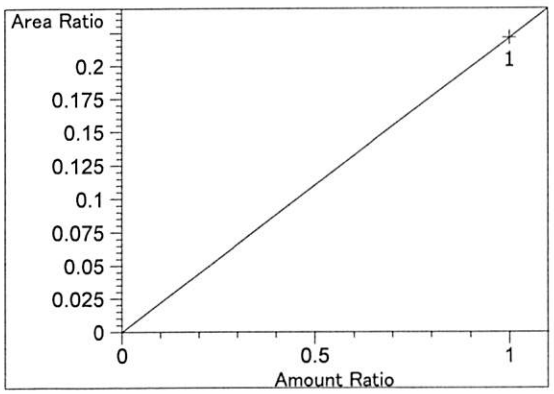


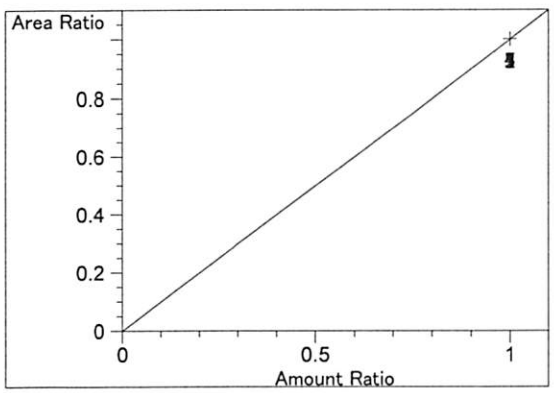

n-propanol at exp. RT: 4.620
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio




acetone at exp. RT: 4.661
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.42460e-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: 2.21273e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

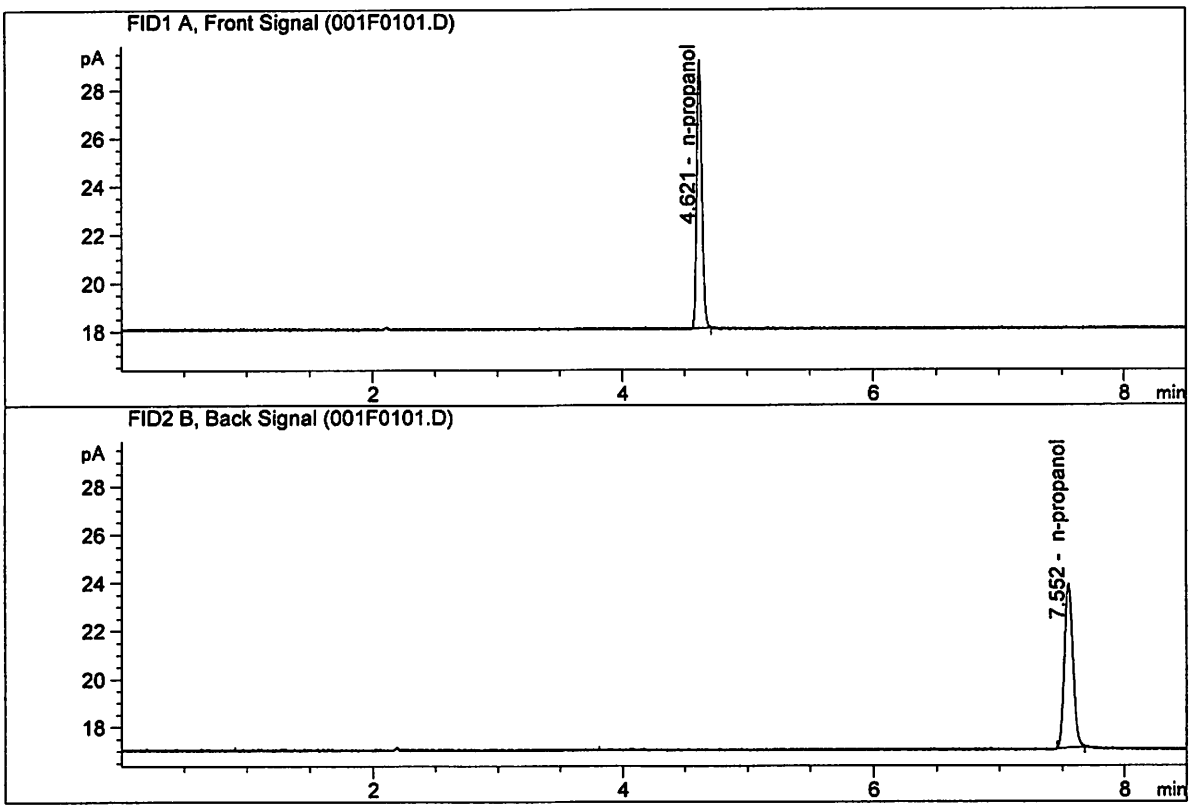



n-propanol at exp. RT: 7.550
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio

==========

# ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : May 3, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

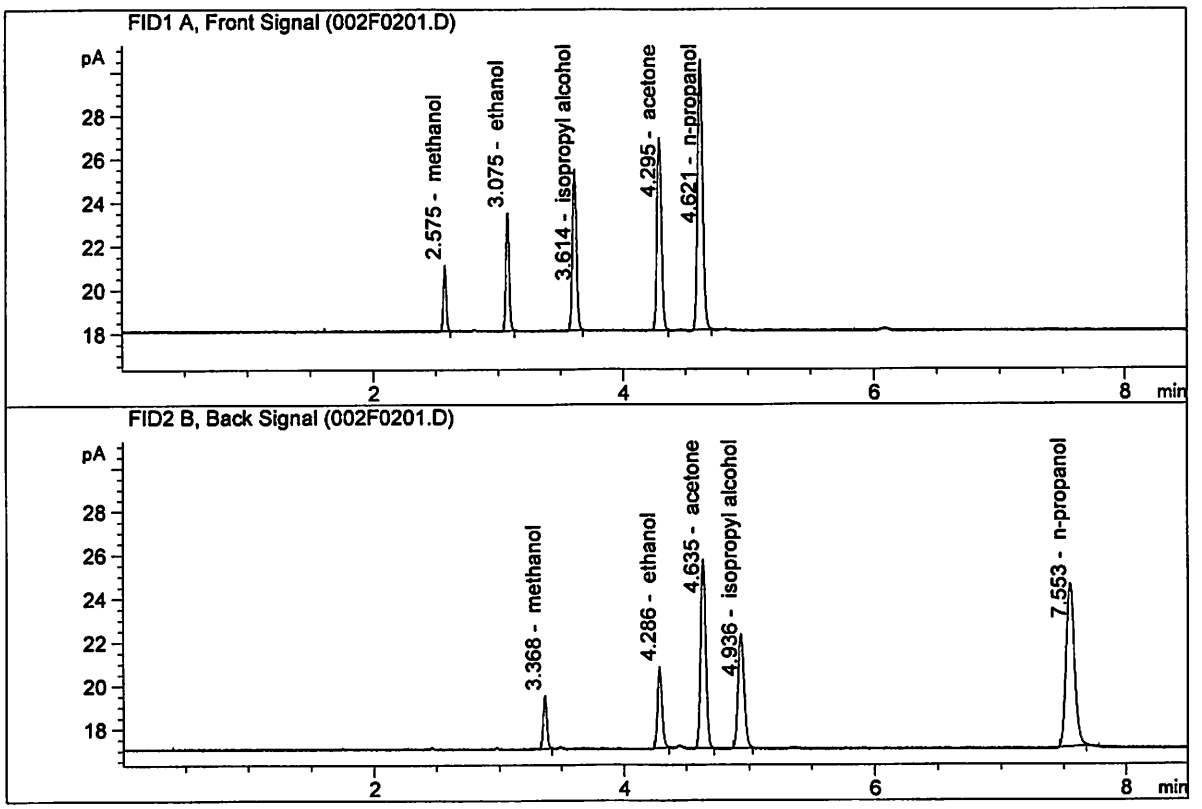



| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 0.00000 | 0.0000 | g/100cc |
| 2. | Ethanol | Column 2: | 0.00000 | 0.0000 | g/100cc |
| 3. | n-Propanol | Column 1: | 31.69026 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 32.65249 | 1.0000 | g/100cc |

JL

# ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN06041503
Laboratory : Meridian
Injection Date : May 3, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 9.58423 | 0.1412 | g/100cc |
| 2. | Ethanol | Column 2: | 9.90654 | 0.1410 | g/100cc |
| 3. | n-Propanol | Column 1: | 35.00378 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 35.91213 | 1.0000 | g/100cc |

JG

# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: QC1-1** **Analysis Date(s): 03 May 2018**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Over-all Mean | |
|---|---|---|---|---|---|---|
| Sample Results | 0.0764 | 0.0767 | 0.0003 | 0.0765 | 0.0771 | |
| (g/100cc) | 0.0775 | 0.0778 | 0.0003 | 0.0776 | | |

**Analysis Method**

**Refer to Blood Alcohol Method #1**

**Instrument Information** *Instrument method is stored centrally.*

Refer to Instrument Method: ALCOHOL.M
Hamilton Auto-Dilutor Serial Number: MDL600HC11378

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

| Overall Mean (g/100cc) | Low | High | 5% of Mean |
|---|---|---|---|
| **0.077** | **0.073** | **0.081** | **0.004** |

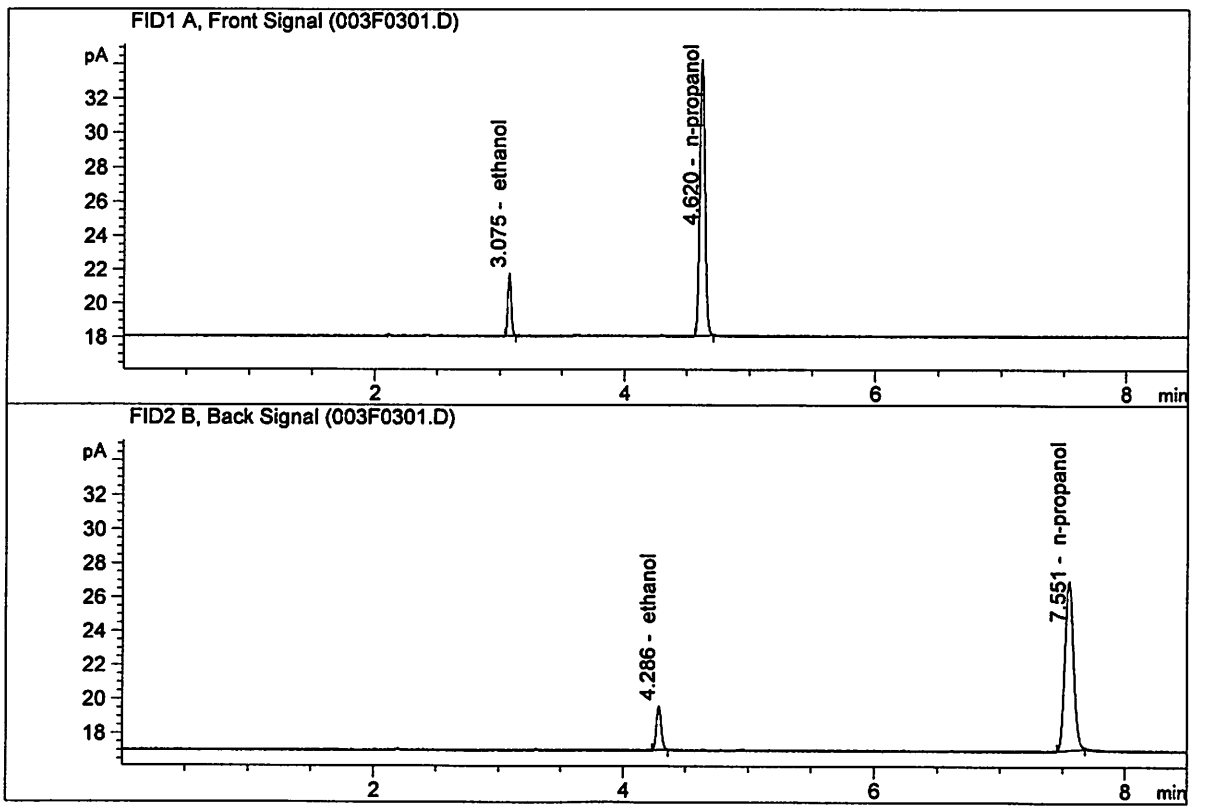
**Reported Result**

**0.077**

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

# ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
Laboratory : Meridian
Injection Date : May 3, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

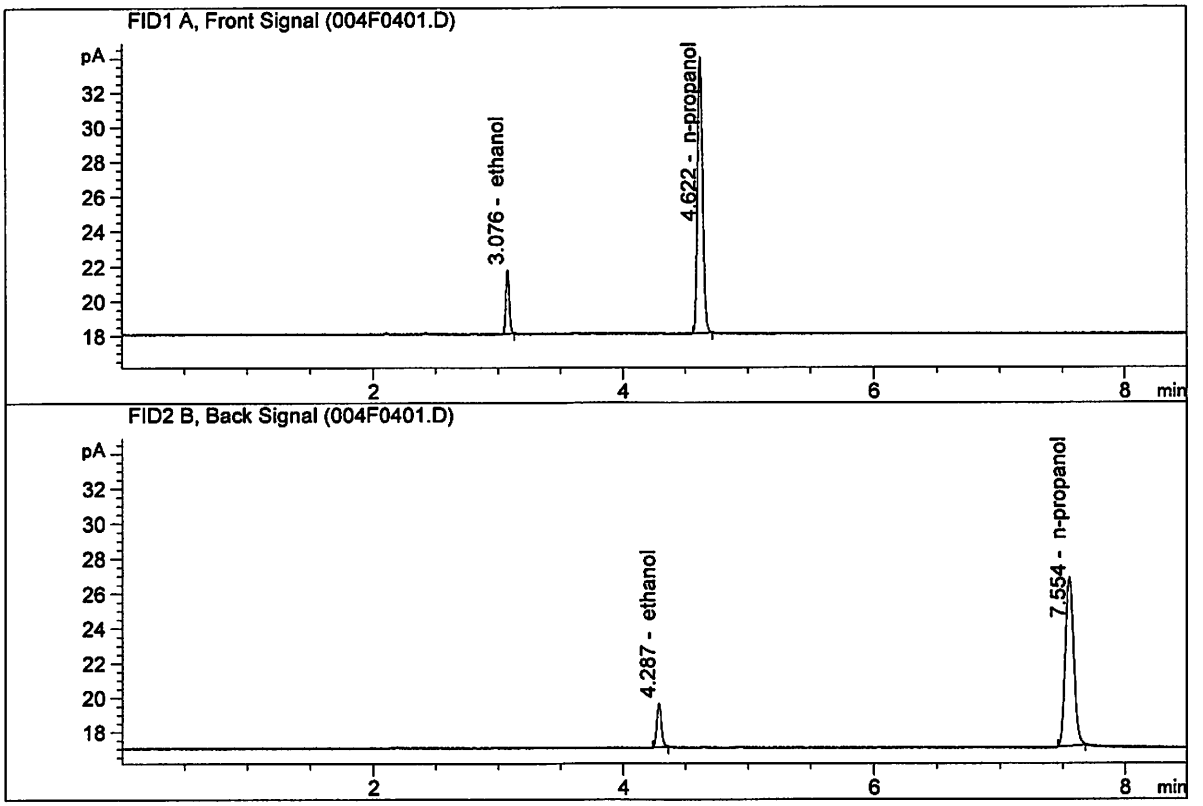



| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 6.77133 | 0.0764 | g/100cc |
| 2. | Ethanol | Column 2: | 6.91145 | 0.0767 | g/100cc |
| 3. | n-Propanol | Column 1: | 46.08132 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 47.45350 | 1.0000 | g/100cc |

JG

# ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
Laboratory : Meridian
Injection Date : May 3, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 6.76506 | 0.0775 | g/100cc |
| 2. | Ethanol | Column 2: | 6.87942 | 0.0778 | g/100cc |
| 3. | n-Propanol | Column 1: | 45.38018 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 46.52525 | 1.0000 | g/100cc |

# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: 0.08 FN10281510** **Analysis Date(s): 03 May 2018**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Over-all Mean |
|---|---|---|---|---|---|
| Sample Results | 0.0807 | 0.0807 | 0.0000 | 0.0807 | 0.0807 |
| (g/100cc) | 0.0809 | 0.0808 | 0.0001 | 0.0808 | |

**Analysis Method**

**Refer to Blood Alcohol Method #1**

**Instrument Information** *Instrument method is stored centrally.*

Refer to Instrument Method: ALCOHOL.M
Hamilton Auto-Dilutor Serial Number: MDL600HC11378

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

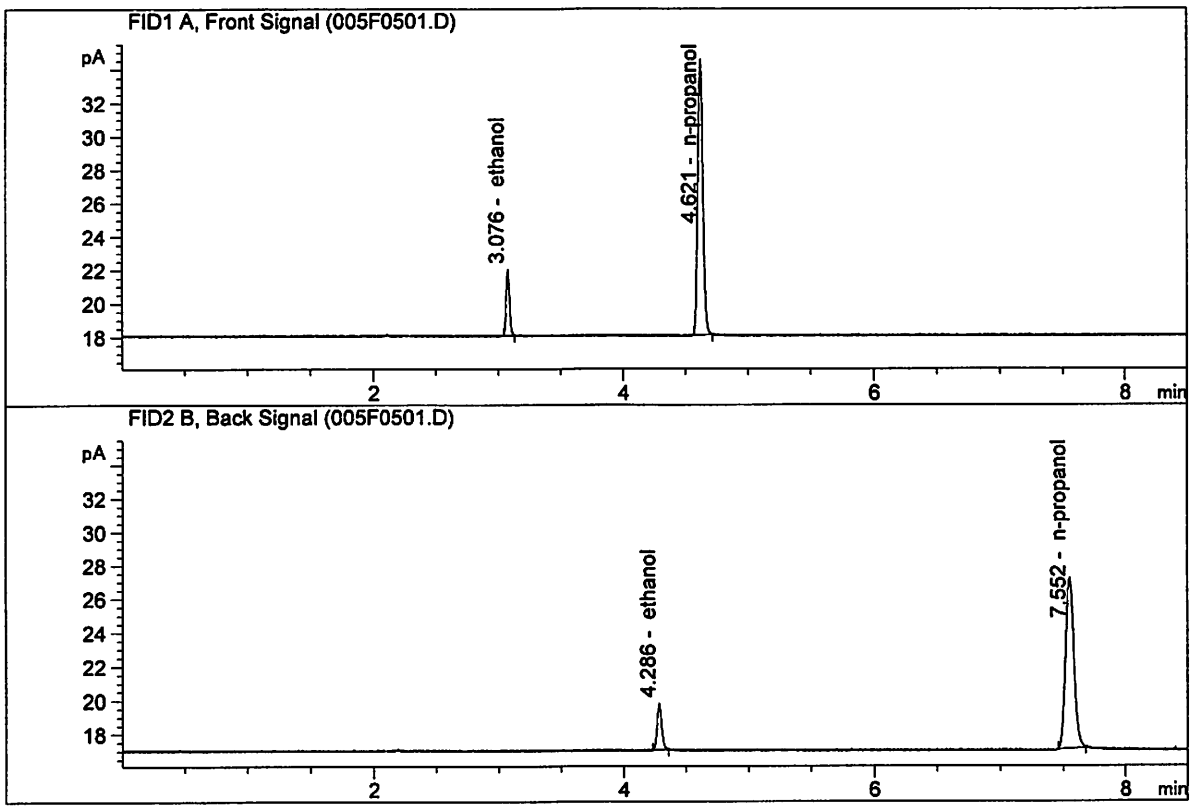
| Overall Mean (g/100cc) | Low | High | 5% of Mean |
|---|---|---|---|
| 0.080 | 0.076 | 0.084 | 0.004 |

| Reported Result |
|---|
| 0.080 |

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

# ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-A
Laboratory : Meridian
Injection Date : May 3, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 7.28977 | 0.0807 | g/100cc |
| 2. | Ethanol | Column 2: | 7.39190 | 0.0807 | g/100cc |
| 3. | n-Propanol | Column 1: | 46.89442 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 48.06841 | 1.0000 | g/100cc |

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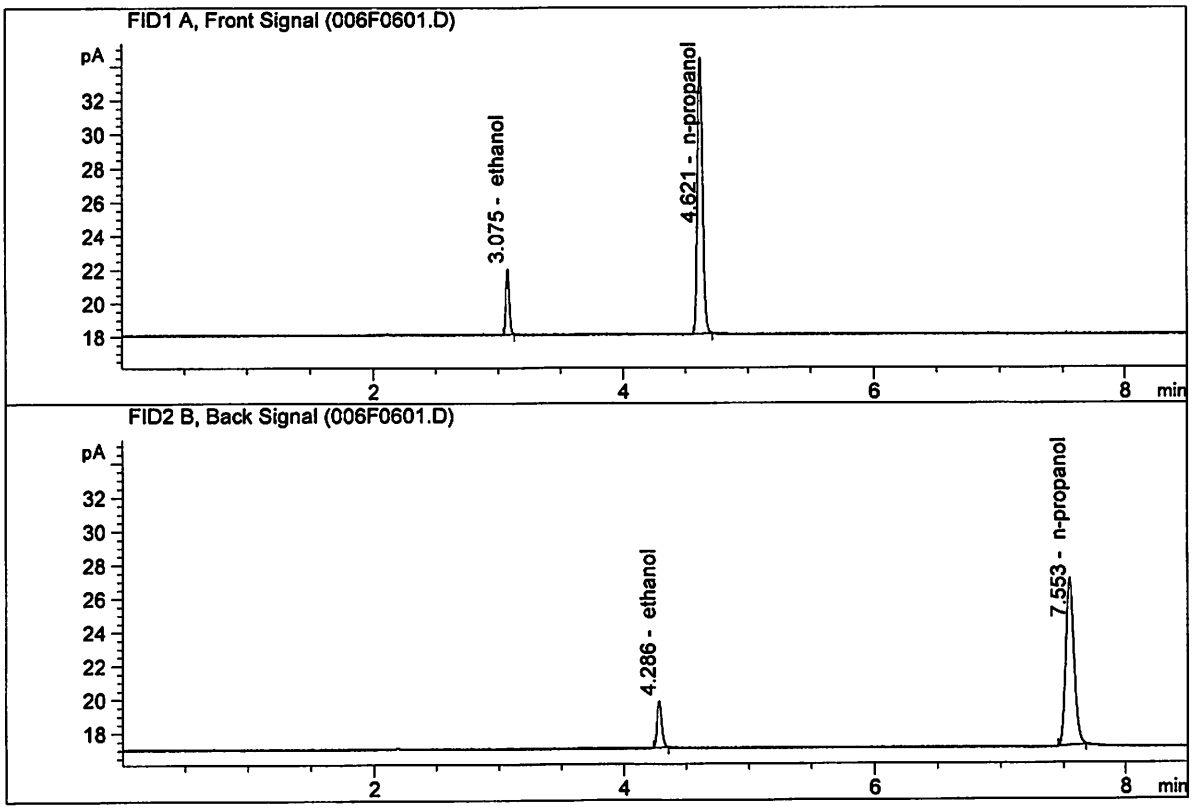
# ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-B
Laboratory : Meridian
Injection Date : May 3, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 7.25302 | 0.0809 | g/100cc |
| 2. | Ethanol | Column 2: | 7.34385 | 0.0808 | g/100cc |
| 3. | n-Propanol | Column 1: | 46.54592 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 47.73020 | 1.0000 | g/100cc |

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# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: QC2-1** **Analysis Date(s): 03 May 2018**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Over-all Mean | |
|---|---|---|---|---|---|---|
| Sample Results | 0.2041 | 0.2046 | 0.0005 | 0.2043 | 0.2035 | |
| (g/100cc) | 0.2027 | 0.2029 | 0.0002 | 0.2028 | | |

**Analysis Method**

**Refer to Blood Alcohol Method #1**

**Instrument Information** *Instrument method is stored centrally.*

Refer to Instrument Method: ALCOHOL.M
Hamilton Auto-Dilutor Serial Number: MDL600HC11378

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

| Overall Mean (g/100cc) | Low | High | 5% of Mean |
|---|---|---|---|
| **0.203** | **0.192** | **0.214** | **0.011** |

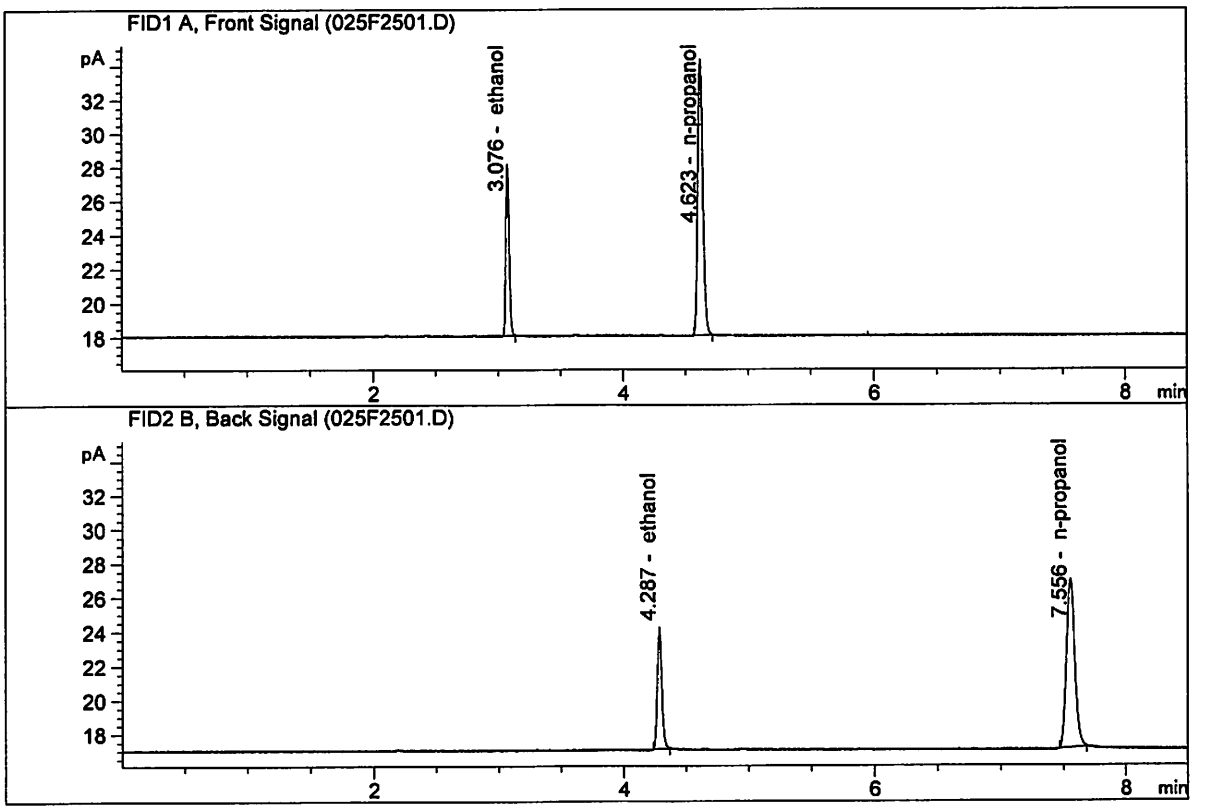
**Reported Result**

**0.203**

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

# ISP Forensic Services Blood Alcohol Report

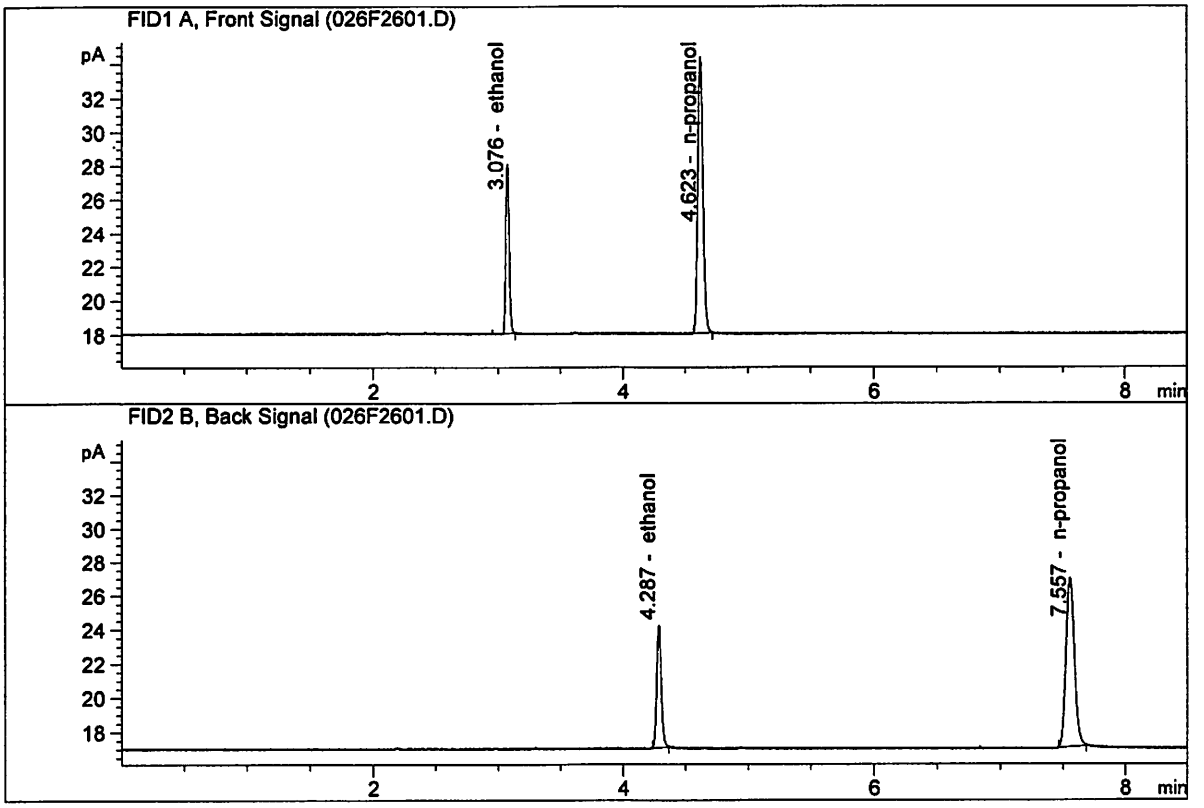
Sample Name : QC2-1-A
Laboratory : Meridian
Injection Date : May 3, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 18.36788 | 0.2041 | g/100cc |
| 2. | Ethanol | Column 2: | 19.13937 | 0.2046 | g/100cc |
| 3. | n-Propanol | Column 1: | 46.28157 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 47.30501 | 1.0000 | g/100cc |

# ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
Laboratory : Meridian
Injection Date : May 3, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 18.29845 | 0.2027 | g/100cc |
| 2. | Ethanol | Column 2: | 19.05187 | 0.2029 | g/100cc |
| 3. | n-Propanol | Column 1: | 46.43522 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 47.48826 | 1.0000 | g/100cc |

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# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: QC1-2** **Analysis Date(s): 03 May 2018**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Over-all Mean |
|---|---|---|---|---|---|
| Sample Results | 0.0799 | 0.0807 | 0.0008 | 0.0803 | 0.0795 |
| (g/100cc) | 0.0785 | 0.0792 | 0.0007 | 0.0788 | |

**Analysis Method**

**Refer to Blood Alcohol Method #1**

**Instrument Information** *Instrument method is stored centrally.*

Refer to Instrument Method: ALCOHOL.M
Hamilton Auto-Dilutor Serial Number: MDL600HC11378

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

| Overall Mean (g/100cc) | Low | High | 5% of Mean |
|---|---|---|---|
| 0.079 | 0.075 | 0.083 | 0.004 |

**Reported Result**

**0.079**

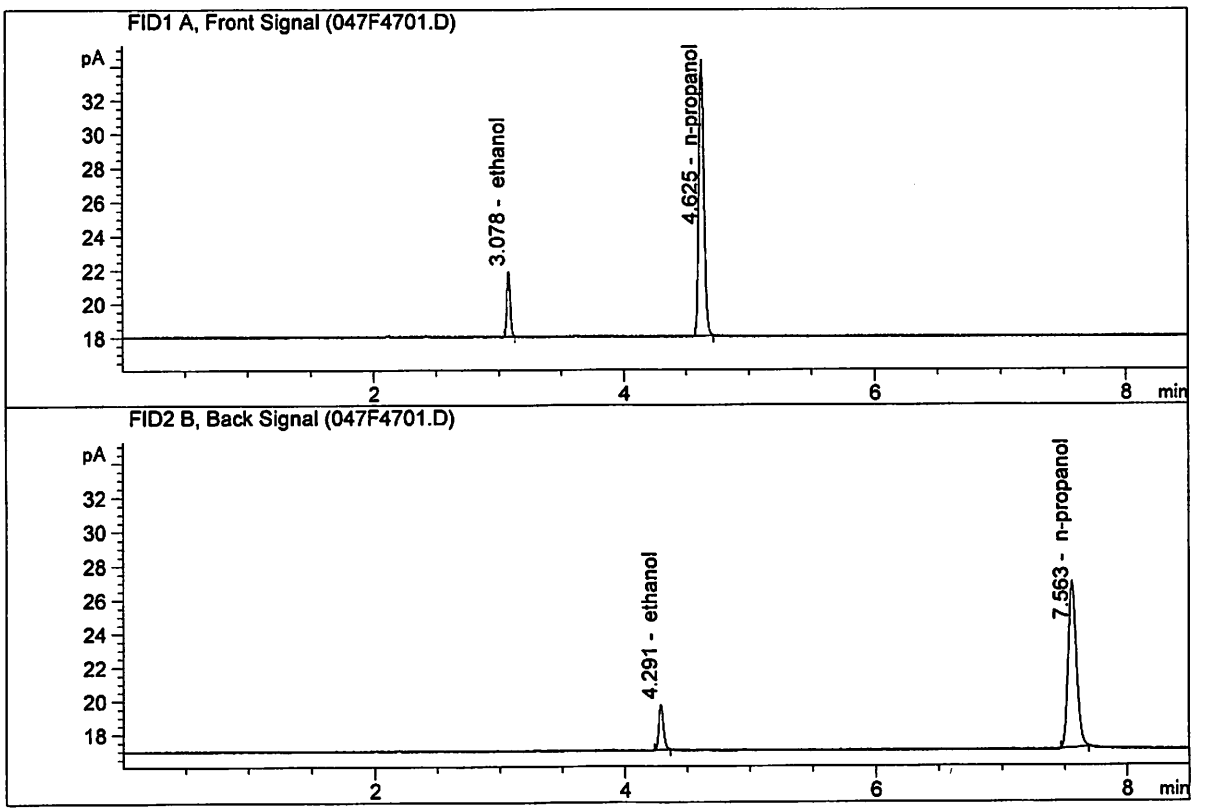
***Calibration and control data are stored centrally.***



JG

# ISP Forensic Services Blood Alcohol Report

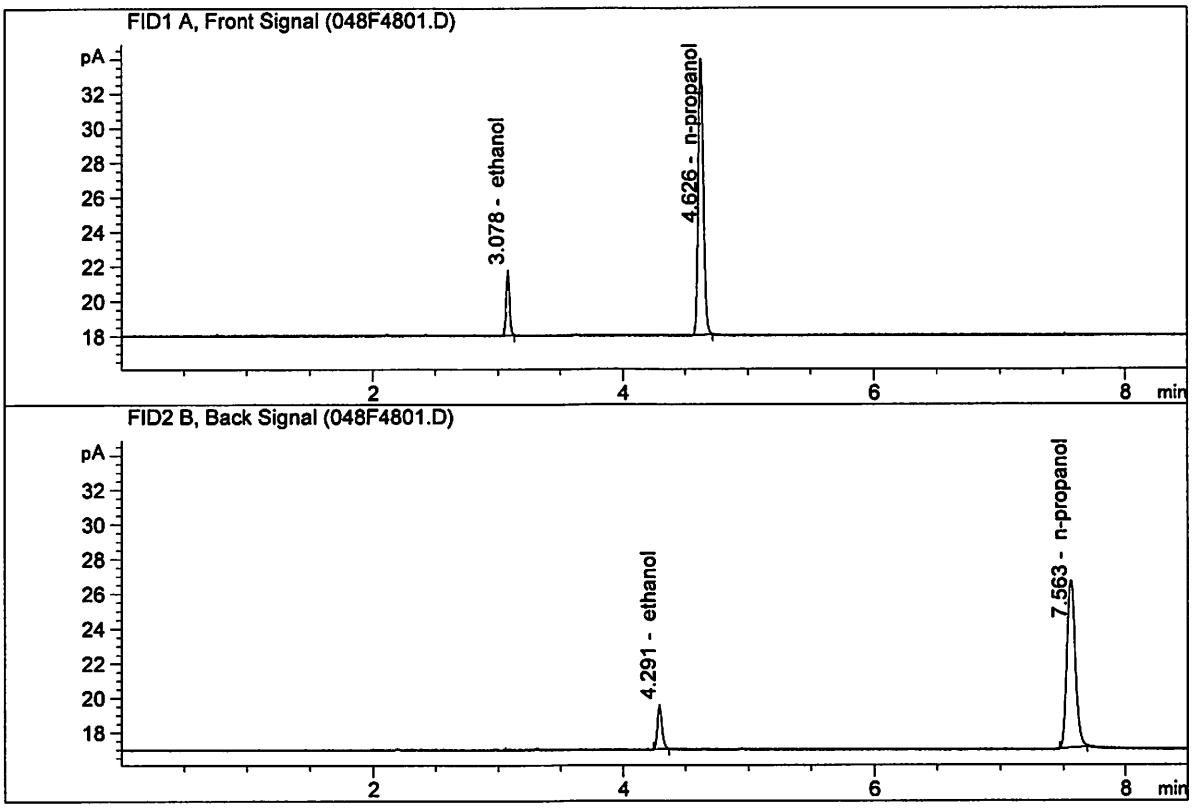
Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : May 3, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 7.15126 | 0.0799 | g/100cc |
| 2. | Ethanol | Column 2: | 7.29636 | 0.0807 | g/100cc |
| 3. | n-Propanol | Column 1: | 46.47025 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 47.48112 | 1.0000 | g/100cc |

# ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : May 3, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

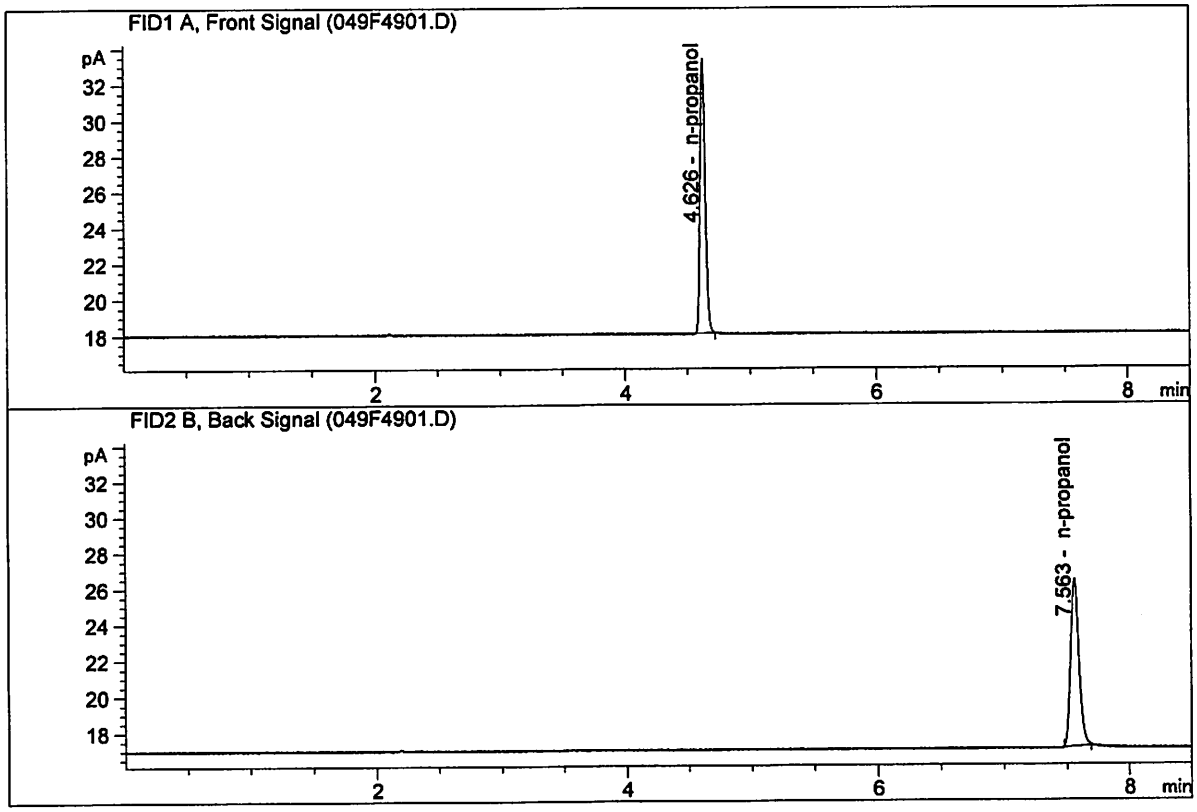



| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 6.86289 | 0.0785 | g/100cc |
| 2. | Ethanol | Column 2: | 6.98576 | 0.0792 | g/100cc |
| 3. | n-Propanol | Column 1: | 45.43435 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 46.38639 | 1.0000 | g/100cc |

JG

# ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : May 3, 2018
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: | 43.70244 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 44.56030 | 1.0000 | g/100cc |

Sequence File C:\Chem32\...8_SAMPLES\05-03-18_SAMPLES 2018-05-03 11-16-44\05-03-18_SAMPLES.S

## Sample Summary

Sequence table: C:\Chem32\1\Data\05-03-18_SAMPLES\05-03-18_SAMPLES 2018-05-03 11-16-44\05 03-18_SAMPLES.S
Data directory path: C:\Chem32\1\Data\05-03-18_SAMPLES\05-03-18_SAMPLES 2018-05-03 11-16-44\
Logbook: C:\Chem32\1\Data\05-03-18_SAMPLES\05-03-18_SAMPLES 2018-05-03 11-16-44\05 03-18_SAMPLES.LOG
Sequence start: 5/3/2018 11:31:30 AM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\05-03-18_SAMPLES\05-03-18_SAMPLES 2018-05-03 11-16-44 \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 FN060415 | - | 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 FN10281510- | - | 1.0000 | 005F0501.D | | 4 |
| 6 | 6 | 1 | 0.08 FN10281510- | - | 1.0000 | 006F0601.D | | 4 |
| 7 | 7 | 1 | M2018-2105-1-A | - | 1.0000 | 007F0701.D | | 6 |
| 8 | 8 | 1 | M2018-2105-1-B | - | 1.0000 | 008F0801.D | | 6 |
| 9 | 9 | 1 | M2018-2106-1-A | - | 1.0000 | 009F0901.D | | 5 |
| 10 | 10 | 1 | M2018-2106-1-B | - | 1.0000 | 010F1001.D | | 6 |
| 11 | 11 | 1 | M2018-2107-1-A | - | 1.0000 | 011F1101.D | | 6 |
| 12 | 12 | 1 | M2018-2107-1-B | - | 1.0000 | 012F1201.D | | 6 |
| 13 | 13 | 1 | M2018-2108-1-A | - | 1.0000 | 013F1301.D | | 4 |
| 14 | 14 | 1 | M2018-2108-1-B | - | 1.0000 | 014F1401.D | | 4 |
| 15 | 15 | 1 | M2018-2134-1-A | - | 1.0000 | 015F1501.D | | 6 |
| 16 | 16 | 1 | M2018-2134-1-B | - | 1.0000 | 016F1601.D | | 6 |
| 17 | 17 | 1 | M2018-2135-1-A | - | 1.0000 | 017F1701.D | | 6 |
| 18 | 18 | 1 | M2018-2135-1-B | - | 1.0000 | 018F1801.D | | 6 |
| 19 | 19 | 1 | M2018-2145-1-A | - | 1.0000 | 019F1901.D | | 2 |
| 20 | 20 | 1 | M2018-2145-1-B | - | 1.0000 | 020F2001.D | | 3 |
| 21 | 21 | 1 | M2018-2145-2-A | - | 1.0000 | 021F2101.D | | 2 |
| 22 | 22 | 1 | M2018-2145-2-B | - | 1.0000 | 022F2201.D | | 2 |
| 23 | 23 | 1 | M2018-2156-1-A | - | 1.0000 | 023F2301.D | | 4 |
| 24 | 24 | 1 | M2018-2156-1-B | - | 1.0000 | 024F2401.D | | 4 |
| 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 | M2018-2157-1-A | - | 1.0000 | 027F2701.D | | 4 |
| 28 | 28 | 1 | M2018-2157-1-B | - | 1.0000 | 028F2801.D | | 5 |
| 29 | 29 | 1 | M2018-2170-1-A | - | 1.0000 | 029F2901.D | | 4 |
| 30 | 30 | 1 | M2018-2170-1-B | - | 1.0000 | 030F3001.D | | 4 |
| 31 | 31 | 1 | M2018-2171-1-A | - | 1.0000 | 031F3101.D | | 2 |
| 32 | 32 | 1 | M2018-2171-1-B | - | 1.0000 | 032F3201.D | | 3 |
| 33 | 33 | 1 | M2018-2176-1-A | - | 1.0000 | 033F3301.D | | 4 |
| 34 | 34 | 1 | M2018-2176-1-B | - | 1.0000 | 034F3401.D | | 6 |
| 35 | 35 | 1 | M2018-2177-1-A | - | 1.0000 | 035F3501.D | | 6 |
| 36 | 36 | 1 | M2018-2177-1-B | - | 1.0000 | 036F3601.D | | 6 |
| 37 | 37 | 1 | M2018-2206-1-A | - | 1.0000 | 037F3701.D | | 6 |
| 38 | 38 | 1 | M2018-2206-1-B | - | 1.0000 | 038F3801.D | | 6 |
| 39 | 39 | 1 | M2018-2208-1-A | - | 1.0000 | 039F3901.D | | 2 |
| 40 | 40 | 1 | M2018-2208-1-B | - | 1.0000 | 040F4001.D | | 2 |
| 41 | 41 | 1 | M2018-2213-1-A | - | 1.0000 | 041F4101.D | | 2 |
| 42 | 42 | 1 | M2018-2213-1-B | - | 1.0000 | 042F4201.D | | 2 |
| 43 | 43 | 1 | M2018-2214-1-A | - | 1.0000 | 043F4301.D | | 6 |

Sequence File C:\Chem32\...8_SAMPLES\05-03-18_SAMPLES 2018-05-03 11-16-44\05-03-18_SAMPLES.S

| Run # | Location # | Inj # | Sample Name | Sample Amt [g/100cc] | Multip.* Dilution | File name | Cal # Cmp |
|---|---|---|---|---|---|---|---|
| 44 | 44 | 1 | M2018-2214-1-B | - | 1.0000 | 044F4401.D | 6 |
| 45 | 45 | 1 | M2018-2217-1-A | - | 1.0000 | 045F4501.D | 6 |
| 46 | 46 | 1 | M2018-2217-1-B | - | 1.0000 | 046F4601.D | 6 |
| 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\05-03-18_SAMPLES\05-03-18_SAMPLES 2018-05-03 11-16-44 \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 |