

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

*Analytical Method(s): 1.0*

*Device: Hamilton MICROLAB 5034 Liquid Processor/Dilutor Serial Number: MD96BC1382/MD94AM10010*

**Volatiles Quality Assurance Controls**

Run Date(s): 1/26/17-1/27/17  
calibration: 1/16/17

| Control level            | Expiration | Lot #   | Target Value       | Acceptable Range | Overall Results                             |         |
|--------------------------|------------|---------|--------------------|------------------|---|---------|
| Level 1                  | Jul-18     | 1407031 | 0.0780             | 0.0702 - 0.0858  | 0.0801 g/100cc                              |         |
|                          |            |         |                    |                  | 0.0801 g/100cc                              |         |
|                          |            |         |                    |                  | g/100cc                                     |         |
| Level 2                  | Jul-18     | 1407032 | 0.2020             | 0.1818 - 0.2222  | 0.2026 g/100cc<br>0.2067 g/100cc<br>g/100cc |         |
| Multi-Component mixture: |            |         | Exp date: Oct 2019 | Lot #            | OK  |         |
| Curve Fit:               |            |         | Column 1           | 0.99998          | Column2                                     | 0.99990 |





















| 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    | 0.5020   | 0.5250   | 0.023     | 0.5135  |
| 0.080                                  |            |                  | 0.080        | 0.072 - 0.088    |          |          | 0         | #DIV/0! |
| 0.100                                  | Jun-20     | FN06181501       | 0.100        | 0.090 - 0.110    | 0.0999   | 0.0999   | 0         | 0.0999  |
| 0.200                                  | Mar-17     | FN032712-01      | 0.200        | 0.180 - 0.220    | 0.2011   | 0.1986   | 0.0025    | 0.1998  |
| 0.300                                  | Jun-20     | FN06051501       | 0.300        | 0.270 - 0.330    | 0.2981   | 0.2966   | 0.0015    | 0.2973  |
| 0.400                                  |            |                  | 0.400        | 0.360 - 0.440    |          |          | 0         | #DIV/0! |
| 0.500                                  | Aug-19     | FN07031402       | 0.500        | 0.450 - 0.550    | 0.5007   | 0.5024   | 0.0017    | 0.5015  |

| Aqueous Controls |            |                  |              |                  |                 |
|------------------|------------|------------------|--------------|------------------|-----------------|
| Control level    | Expiration | Cerilliant Lot # | Target Value | Acceptable Range | Overall Results |
| 0.080            | Nov-20     | FN10281510       | 0.08000      | 0.076 - 0.084    | 0.082 g/100cc   |

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

Issued: 4/22/2015  
Volatiles QA/QC data spreadsheet Rev 5  
Issuing Authority: Quality Manager

**Worklist: 1503**

| <u>LAB CASE</u> | <u>ITEM</u> | <u>TASK ID</u> | <u>DESCRIPTION</u>    |  |
|-----------------|-------------|----------------|-----------------------|--|
| M2017-0289      | 1           | 74751          | BATS Proficiency Test |    |
| M2017-0289      | 2           | 75063          | BATS Proficiency Test |    |
| M2017-0289      | 3           | 75064          | BATS Proficiency Test |    |
| M2017-0289      | 4           | 75065          | BATS Proficiency Test |    |
| M2017-0295      | 1           | 74792          | Alcohol Analysis      |    |
| M2017-0297      | 1           | 74802          | Alcohol Analysis      |    |
| M2017-0298      | 1           | 74803          | Alcohol Analysis      |    |
| M2017-0299      | 1           | 74804          | Alcohol Analysis      |    |
| M2017-0305      | 1           | 74819          | Alcohol Analysis      |    |
| M2017-0306      | 1           | 74826          | Alcohol Analysis      |    |
| M2017-0308      | 1           | 74883          | Alcohol Analysis      |  |
| M2017-0309      | 1           | 74889          | Alcohol Analysis      |  |
| M2017-0310      | 1           | 74890          | Alcohol Analysis      |  |
| M2017-0311      | 1           | 74894          | Alcohol Analysis      |  |
| M2017-0324      | 1           | 74924          | Alcohol Analysis      |  |
| M2017-0357      | 1           | 75082          | Alcohol Analysis      |  |
| M2017-0358      | 1           | 75083          | Alcohol Analysis      |  |
| M2017-0363      | 1           | 75100          | Alcohol Analysis      |  |
| M2017-0364      | 1           | 75101          | Alcohol Analysis      |  |
| P2017-0128      | 1           | 74516          | Alcohol Analysis      |  |



# VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1

Analysis Date(s): 26 Jan 2017

|                | Column 1<br>FID A | Column 2<br>FID B | Column<br>Precision | Mean Value | Over-all Mean |  |
|----------------|-------------------|-------------------|---------------------|------------|---------------|--|
| Sample Results | 0.0796            | 0.0811            | 0.0015              | 0.0803     | 0.0801        |  |
| (g/100cc)      | 0.0789            | 0.0808            | 0.0019              | 0.0798     |               |  |

**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:  
MD96BC1382/MD94AM10010

**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      |

|  |                        |  |
|--|------------------------|--|
|  | <b>Reported Result</b> |  |
|  | 0.080                  |  |

*Calibration and control data are stored centrally.*

NB

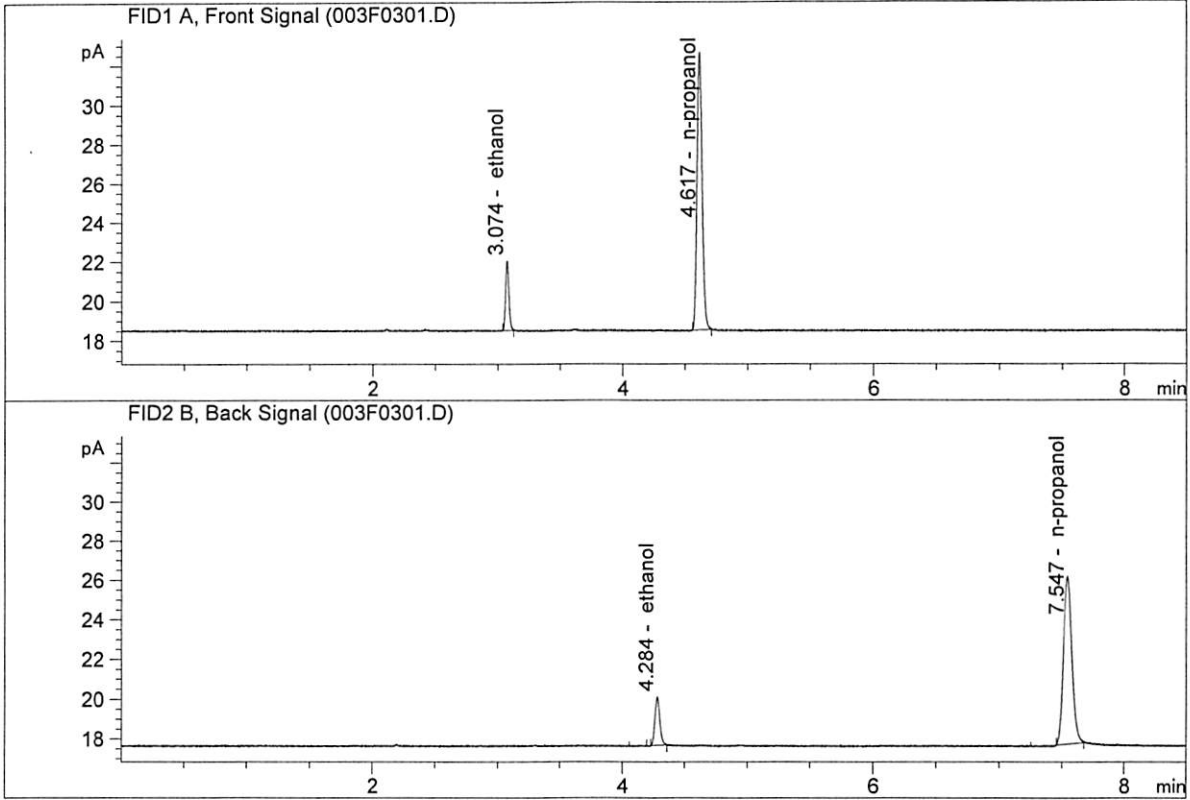
Issued: 12/30/2016

Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A  
 Laboratory : Meridian  
 Injection Date : Jan 26, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



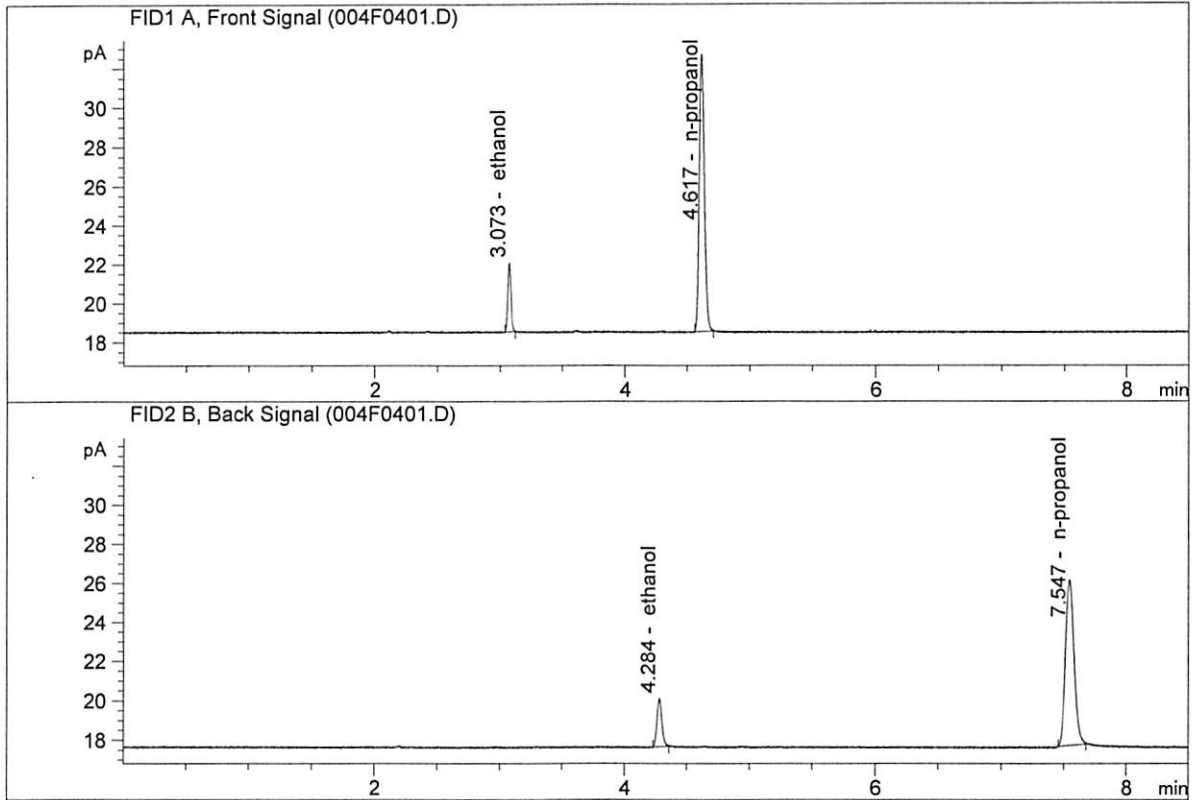
| #  | Compound   | Column    | Area     | Amount | Units   |
|----|------------|-----------|----------|--------|---------|
| 1. | Ethanol    | Column 1: | 6.54931  | 0.0796 | g/100cc |
| 2. | Ethanol    | Column 2: | 6.61323  | 0.0811 | g/100cc |
| 3. | n-Propanol | Column 1: | 40.10404 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 40.59988 | 1.0000 | g/100cc |

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ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B  
 Laboratory : Meridian  
 Injection Date : Jan 26, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



| #  | Compound   | Column    | Area     | Amount | Units   |
|----|------------|-----------|----------|--------|---------|
| 1. | Ethanol    | Column 1: | 6.51972  | 0.0789 | g/100cc |
| 2. | Ethanol    | Column 2: | 6.60837  | 0.0808 | g/100cc |
| 3. | n-Propanol | Column 1: | 40.29524 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 40.75359 | 1.0000 | g/100cc |

NB

## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2

Analysis Date(s): 27 Jan 2017

|                | Column 1<br>FID A | Column 2<br>FID B | Column<br>Precision | Mean Value | Over-all Mean |  |
|----------------|-------------------|-------------------|---------------------|------------|---------------|--|
| Sample Results | 0.0790            | 0.0808            | 0.0018              | 0.0799     | 0.0801        |  |
| (g/100cc)      | 0.0793            | 0.0813            | 0.0020              | 0.0803     |               |  |

### 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:  
MD96BC1382/MD94AM10010

### 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      |

|  |                                     |  |
|--|-------------------------------------|--|
|  | <b>Reported Result</b><br><br>0.080 |  |
|--|-------------------------------------|--|

*Calibration and control data are stored centrally.*



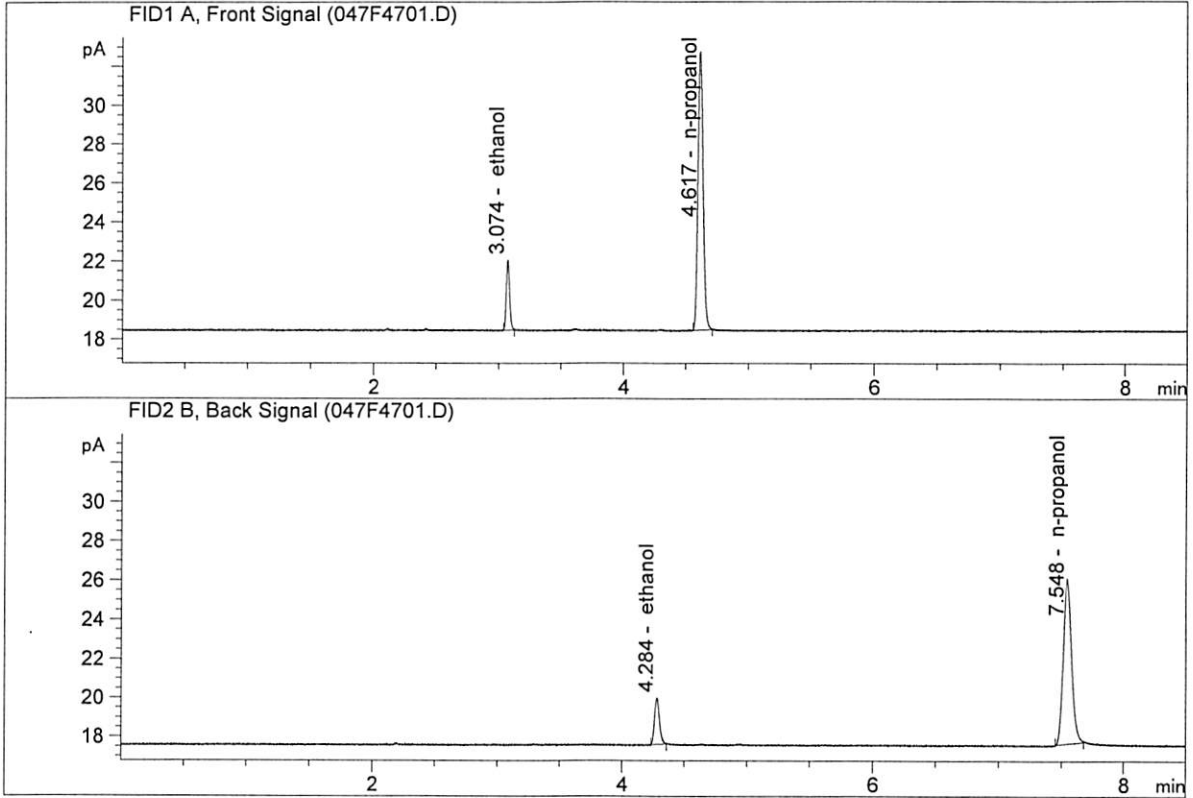
Issued: 12/30/2016

Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-A  
 Laboratory : Meridian  
 Injection Date : Jan 27, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167

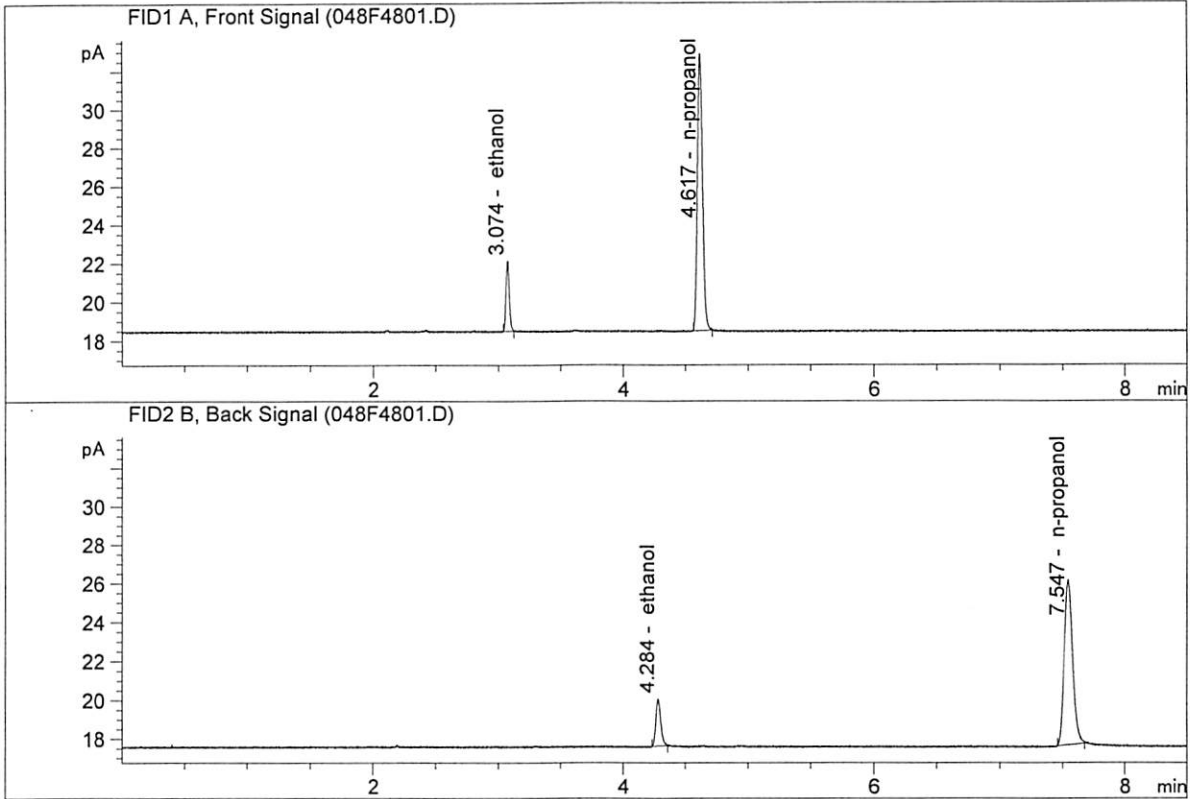


| #  | Compound   | Column    | Area     | Amount | Units   |
|----|------------|-----------|----------|--------|---------|
| 1. | Ethanol    | Column 1: | 6.57344  | 0.0790 | g/100cc |
| 2. | Ethanol    | Column 2: | 6.53576  | 0.0808 | g/100cc |
| 3. | n-Propanol | Column 1: | 40.54076 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 40.25576 | 1.0000 | g/100cc |

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B  
 Laboratory : Meridian  
 Injection Date : Jan 27, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



| #  | Compound   | Column    | Area     | Amount | Units   |
|----|------------|-----------|----------|--------|---------|
| 1. | Ethanol    | Column 1: | 6.64081  | 0.0793 | g/100cc |
| 2. | Ethanol    | Column 2: | 6.60406  | 0.0813 | g/100cc |
| 3. | n-Propanol | Column 1: | 40.83204 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 40.42553 | 1.0000 | g/100cc |

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## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1

Analysis Date(s): 26 Jan 2017

|                | Column 1<br>FID A | Column 2<br>FID B | Column<br>Precision | Mean Value | Over-all Mean |  |
|----------------|-------------------|-------------------|---------------------|------------|---------------|--|
| Sample Results | 0.2023            | 0.2031            | 0.0008              | 0.2027     | 0.2026        |  |
| (g/100cc)      | 0.2027            | 0.2023            | 0.0004              | 0.2025     |               |  |

### 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:  
MD96BC1382/MD94AM10010

### Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

| Overall Mean (g/100cc) | Low   | High  | 5% of Mean |
|------------------------|-------|-------|------------|
| 0.202                  | 0.191 | 0.213 | 0.011      |

|  |                        |  |
|--|------------------------|--|
|  | <b>Reported Result</b> |  |
|  | 0.202                  |  |

*Calibration and control data are stored centrally.*



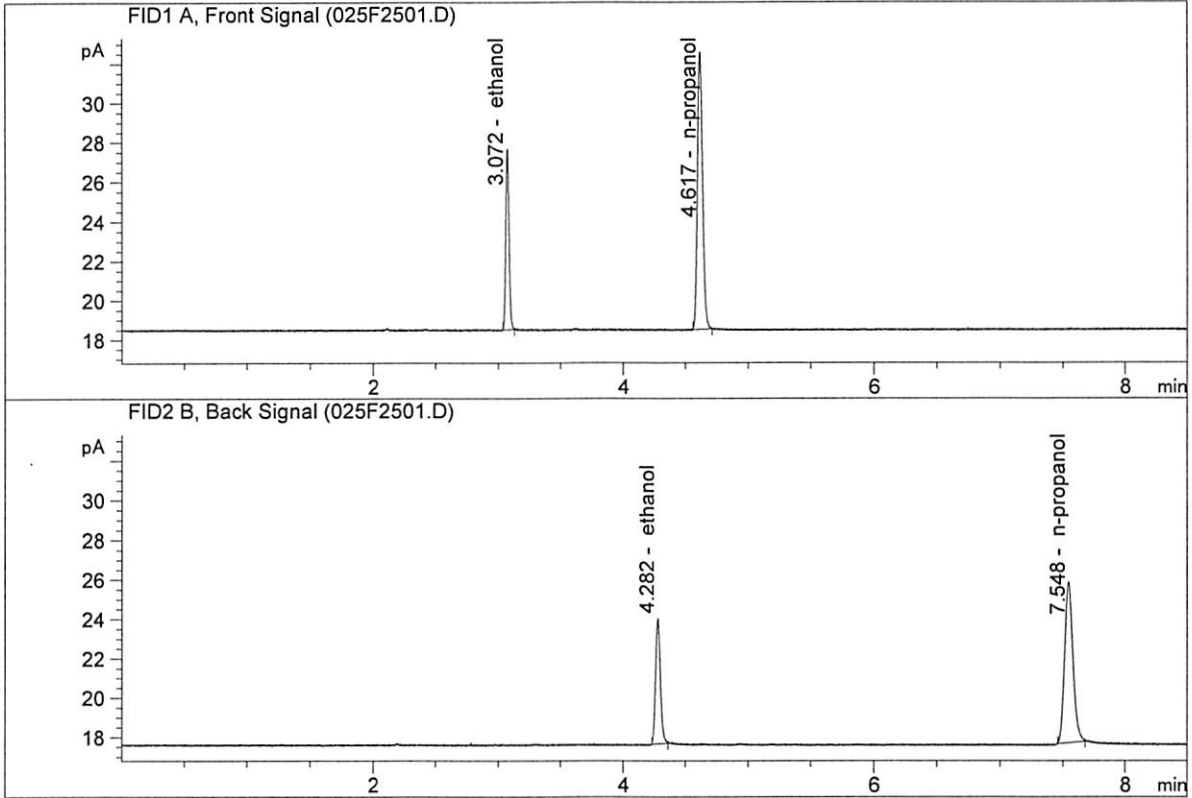
Issued: 12/30/2016

Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A  
 Laboratory : Meridian  
 Injection Date : Jan 26, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167

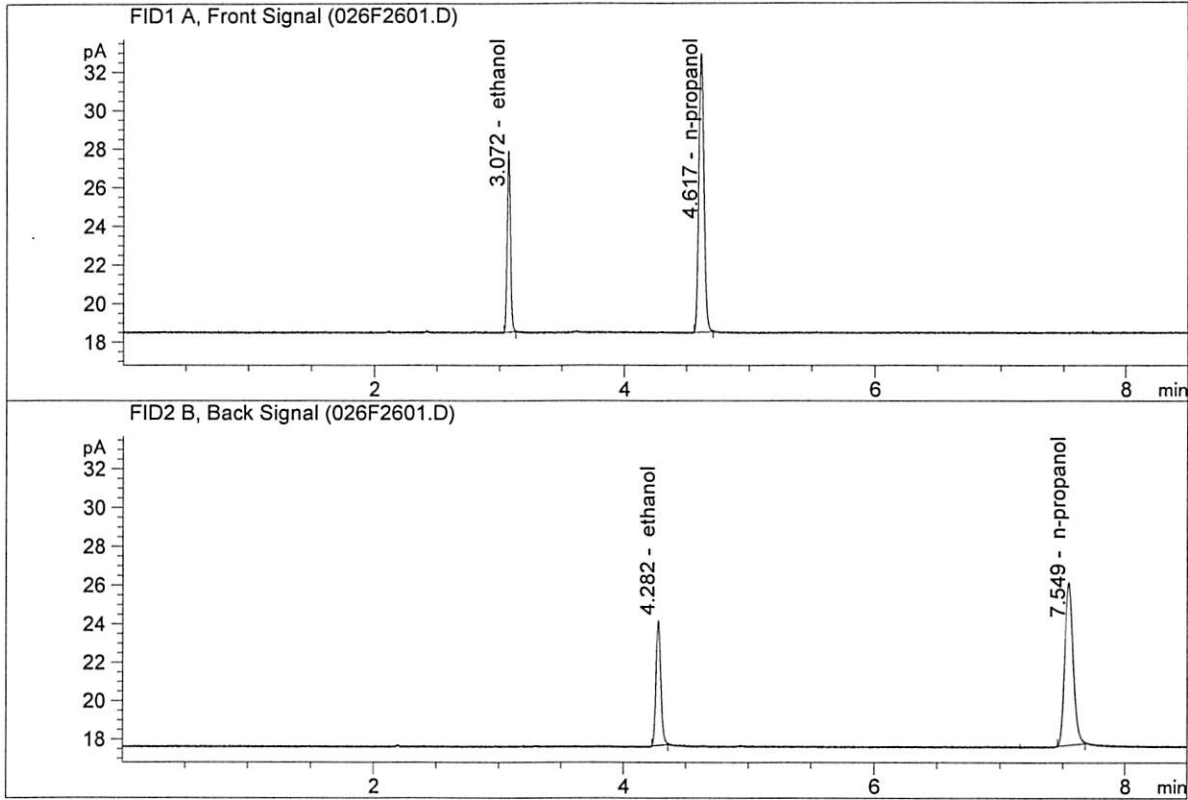


| #  | Compound   | Column    | Area     | Amount | Units   |
|----|------------|-----------|----------|--------|---------|
| 1. | Ethanol    | Column 1: | 16.69443 | 0.2023 | g/100cc |
| 2. | Ethanol    | Column 2: | 16.98707 | 0.2031 | g/100cc |
| 3. | n-Propanol | Column 1: | 39.96994 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 39.43186 | 1.0000 | g/100cc |

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ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B  
 Laboratory : Meridian  
 Injection Date : Jan 26, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



| #  | Compound   | Column    | Area     | Amount | Units   |
|----|------------|-----------|----------|--------|---------|
| 1. | Ethanol    | Column 1: | 17.17537 | 0.2027 | g/100cc |
| 2. | Ethanol    | Column 2: | 17.38643 | 0.2023 | g/100cc |
| 3. | n-Propanol | Column 1: | 41.03714 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 40.52430 | 1.0000 | g/100cc |

NB

## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-2

Analysis Date(s): 27 Jan 2017

|                | Column 1<br>FID A | Column 2<br>FID B | Column<br>Precision | Mean Value | Over-all Mean |  |
|----------------|-------------------|-------------------|---------------------|------------|---------------|--|
| Sample Results | 0.2065            | 0.2077            | 0.0012              | 0.2071     | 0.2067        |  |
| (g/100cc)      | 0.2064            | 0.2063            | 0.0001              | 0.2063     |               |  |

### 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:  
MD96BC1382/MD94AM10010

### Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

| Overall Mean (g/100cc) | Low   | High  | 5% of Mean |
|------------------------|-------|-------|------------|
| 0.206                  | 0.195 | 0.217 | 0.011      |

|  |                        |  |
|--|------------------------|--|
|  | <b>Reported Result</b> |  |
|  | 0.206                  |  |

*Calibration and control data are stored centrally.*

NB

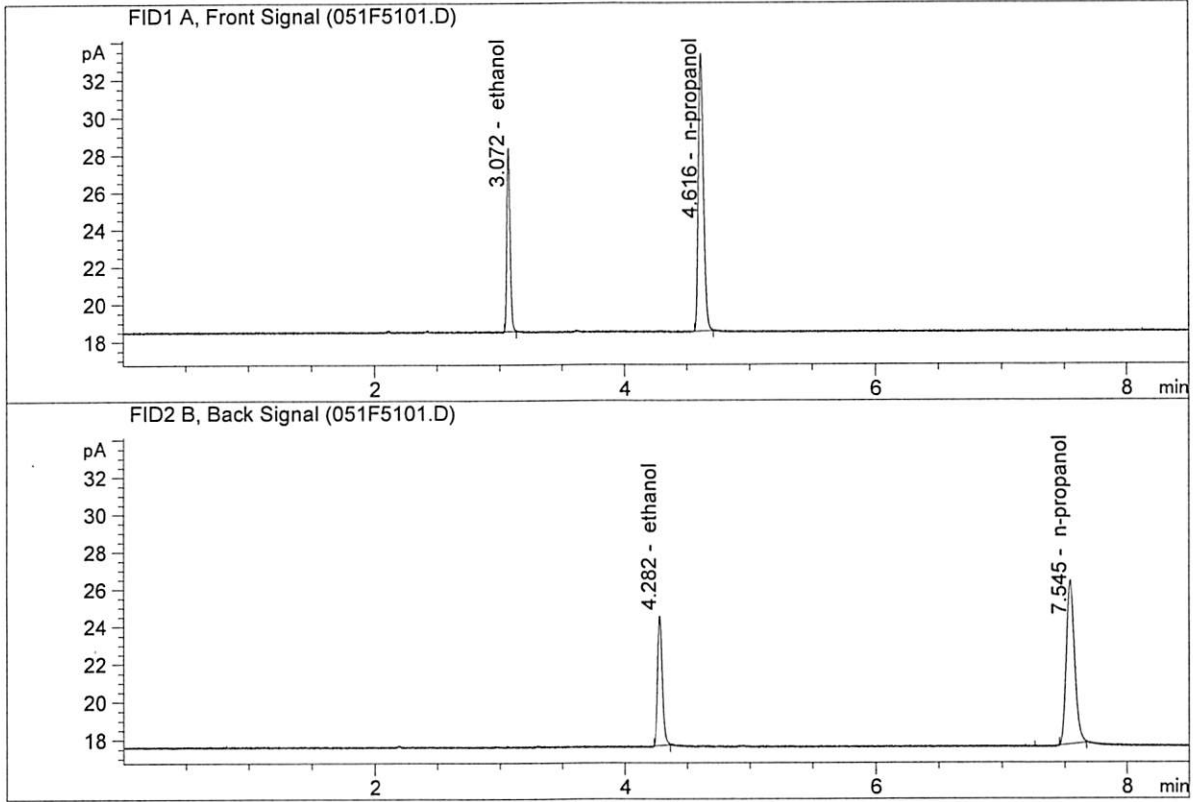
Issued: 12/30/2016

Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-A  
 Laboratory : Meridian  
 Injection Date : Jan 27, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



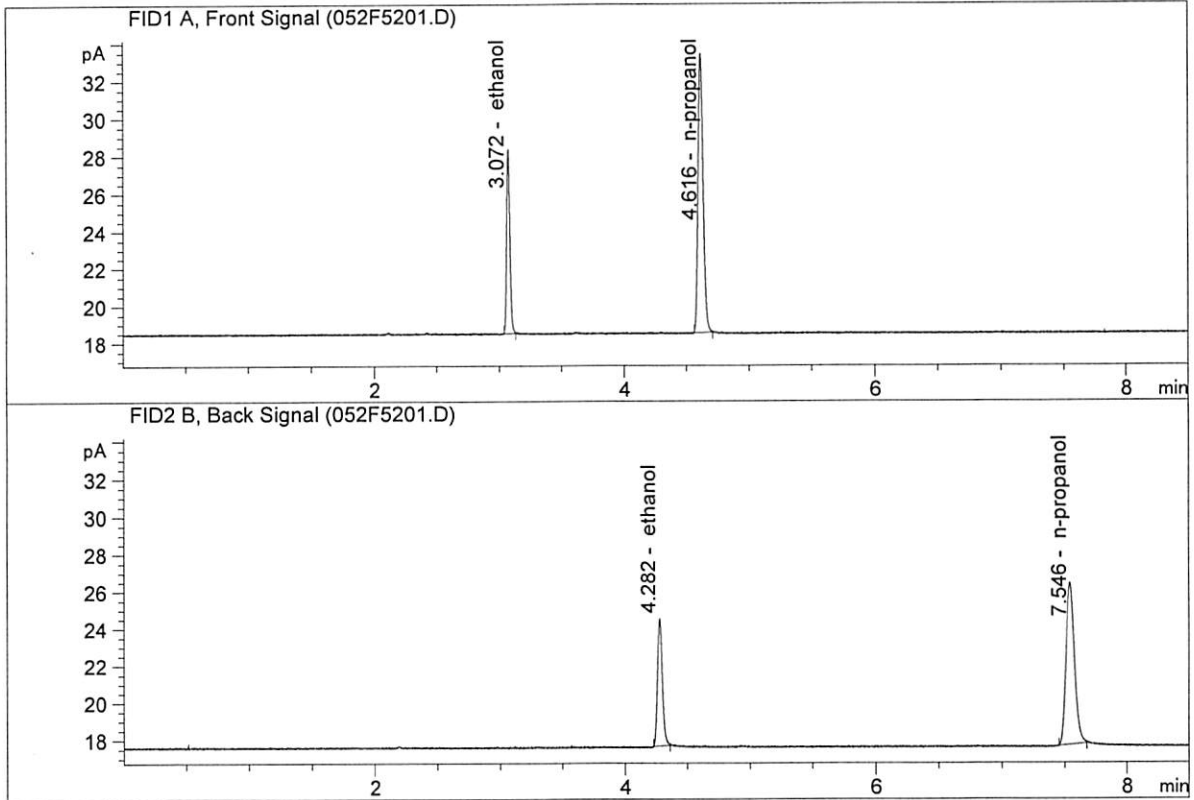
| #  | Compound   | Column    | Area     | Amount | Units   |
|----|------------|-----------|----------|--------|---------|
| 1. | Ethanol    | Column 1: | 17.98428 | 0.2065 | g/100cc |
| 2. | Ethanol    | Column 2: | 18.35073 | 0.2077 | g/100cc |
| 3. | n-Propanol | Column 1: | 42.17772 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 41.62833 | 1.0000 | g/100cc |

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ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-B  
 Laboratory : Meridian  
 Injection Date : Jan 27, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



| #  | Compound   | Column    | Area     | Amount | Units   |
|----|------------|-----------|----------|--------|---------|
| 1. | Ethanol    | Column 1: | 17.99069 | 0.2064 | g/100cc |
| 2. | Ethanol    | Column 2: | 18.29297 | 0.2063 | g/100cc |
| 3. | n-Propanol | Column 1: | 42.20998 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 41.79198 | 1.0000 | g/100cc |

NB

## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN10281510

Analysis Date(s): 26 Jan 2017

|                | Column 1<br>FID A | Column 2<br>FID B | Column<br>Precision | Mean Value | Over-all Mean |  |
|----------------|-------------------|-------------------|---------------------|------------|---------------|--|
| Sample Results | 0.0819            | 0.0833            | 0.0014              | 0.0826     | 0.0825        |  |
| (g/100cc)      | 0.0817            | 0.0832            | 0.0015              | 0.0824     |               |  |

### 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:  
MD96BC1382/MD94AM10010

### 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      |

|  |                        |  |
|--|------------------------|--|
|  | <b>Reported Result</b> |  |
|  | 0.082                  |  |

*Calibration and control data are stored centrally.*

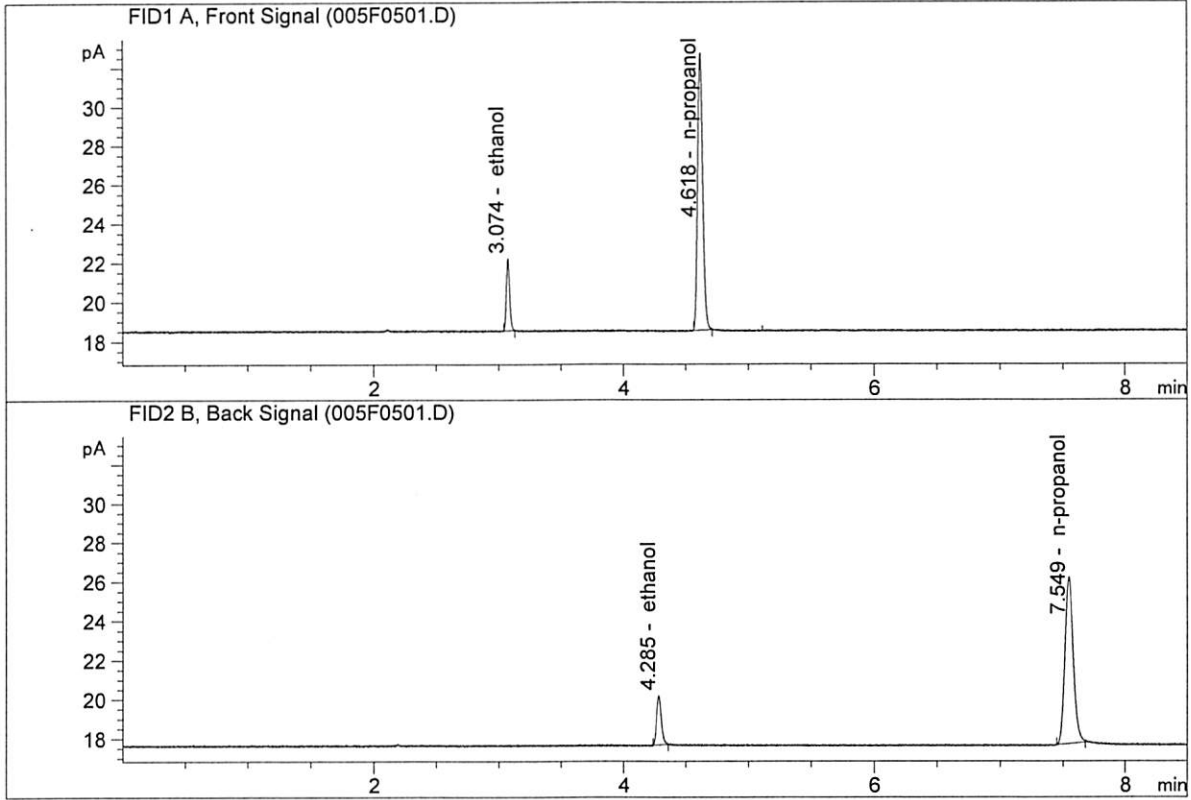
Issued: 12/30/2016

Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-A  
 Laboratory : Meridian  
 Injection Date : Jan 26, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167

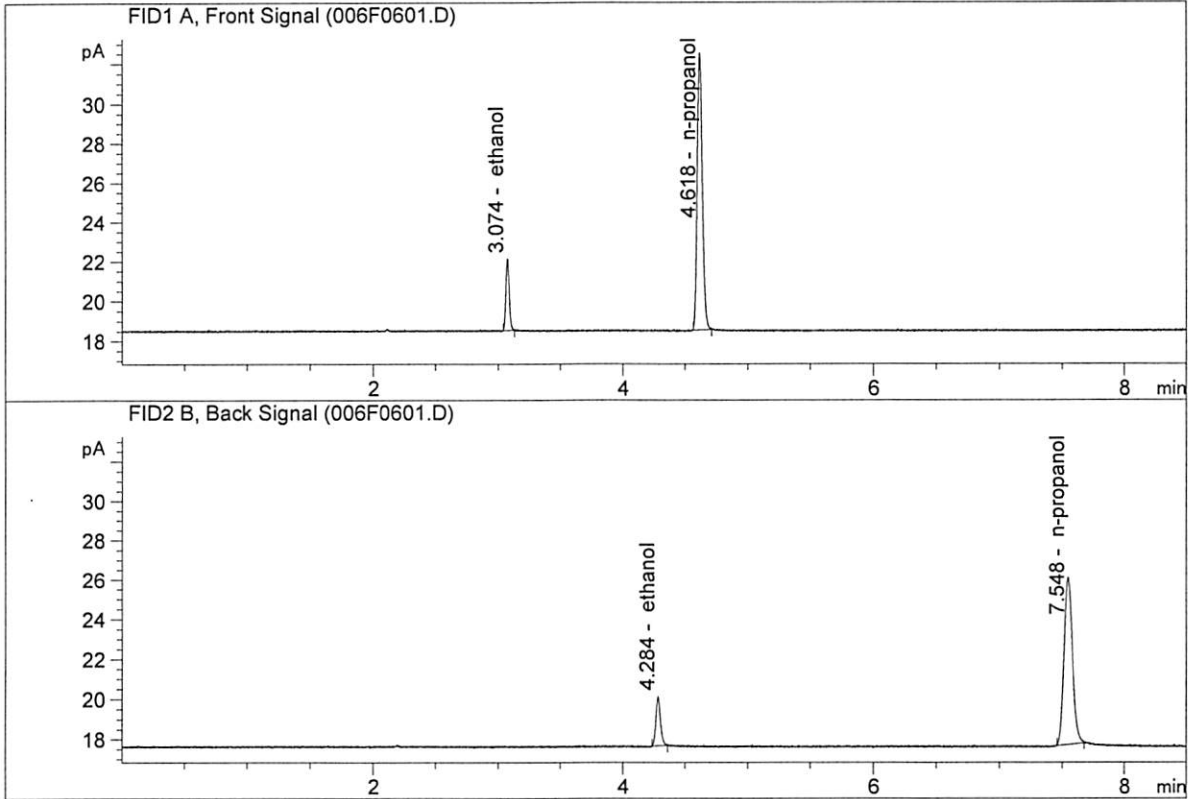


| #  | Compound   | Column    | Area     | Amount | Units   |
|----|------------|-----------|----------|--------|---------|
| 1. | Ethanol    | Column 1: | 6.77658  | 0.0819 | g/100cc |
| 2. | Ethanol    | Column 2: | 6.85432  | 0.0833 | g/100cc |
| 3. | n-Propanol | Column 1: | 40.33394 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 40.88383 | 1.0000 | g/100cc |

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-B  
 Laboratory : Meridian  
 Injection Date : Jan 26, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167

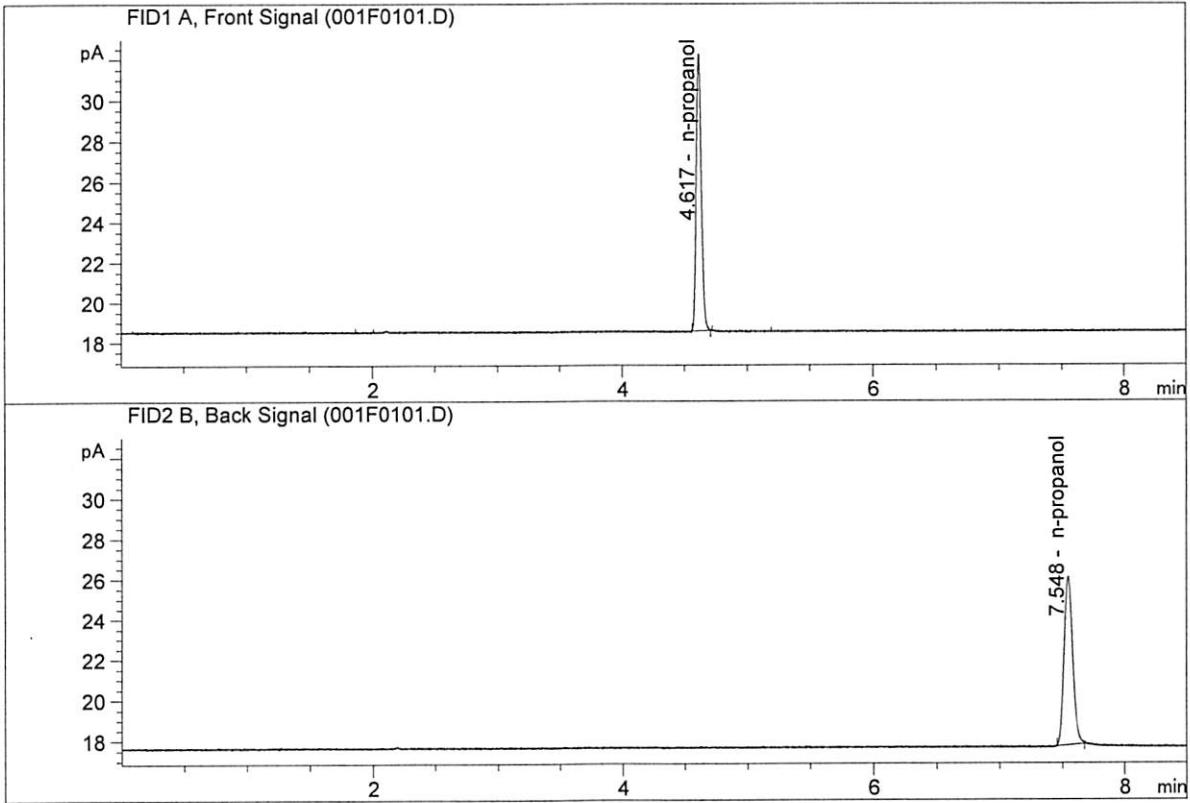


| #  | Compound   | Column    | Area     | Amount | Units   |
|----|------------|-----------|----------|--------|---------|
| 1. | Ethanol    | Column 1: | 6.68100  | 0.0817 | g/100cc |
| 2. | Ethanol    | Column 2: | 6.72374  | 0.0832 | g/100cc |
| 3. | n-Propanol | Column 1: | 39.84399 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 40.12455 | 1.0000 | g/100cc |

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1  
 Laboratory : Meridian  
 Injection Date : Jan 26, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



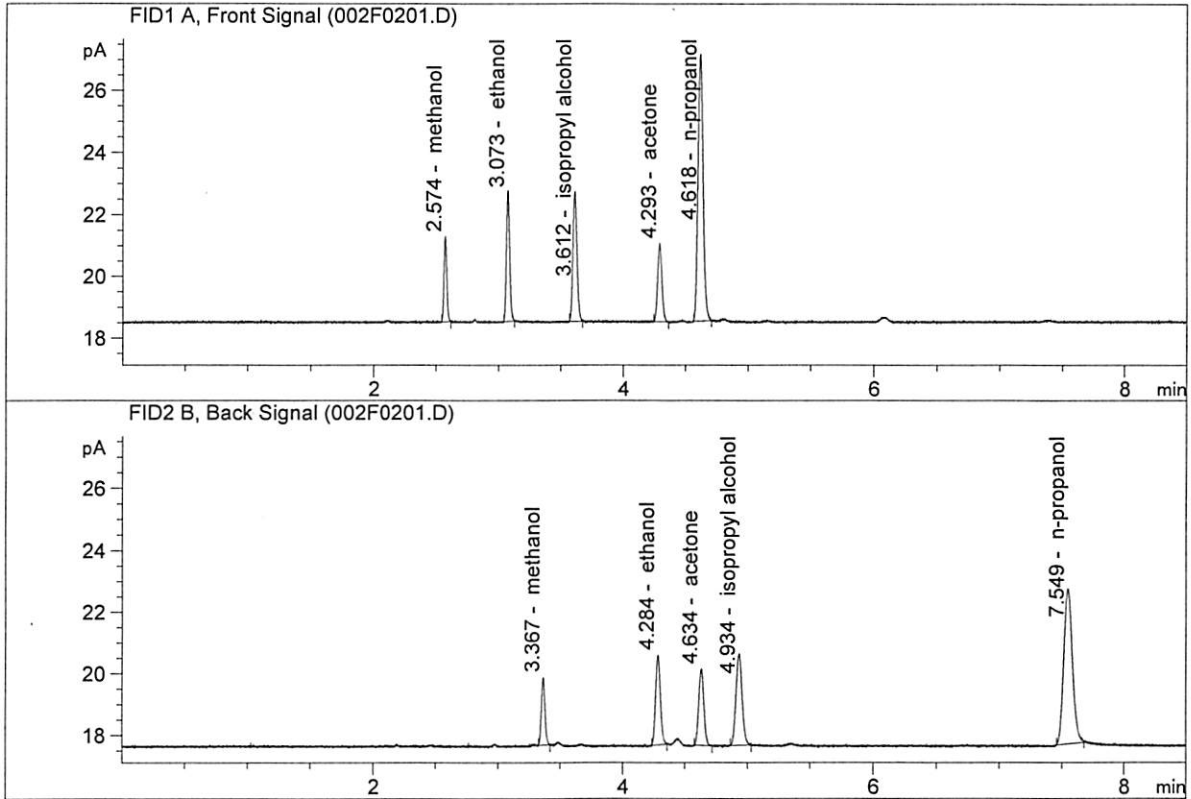
| #  | Compound   | Column    | Area     | Amount | Units   |
|----|------------|-----------|----------|--------|---------|
| 1. | Ethanol    | Column 1: | 0.00000  | 0.0000 | g/100cc |
| 2. | Ethanol    | Column 2: | 0.00000  | 0.0000 | g/100cc |
| 3. | n-Propanol | Column 1: | 39.03886 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 40.09836 | 1.0000 | g/100cc |

NB



ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN09231404  
 Laboratory : Meridian  
 Injection Date : Jan 26, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167

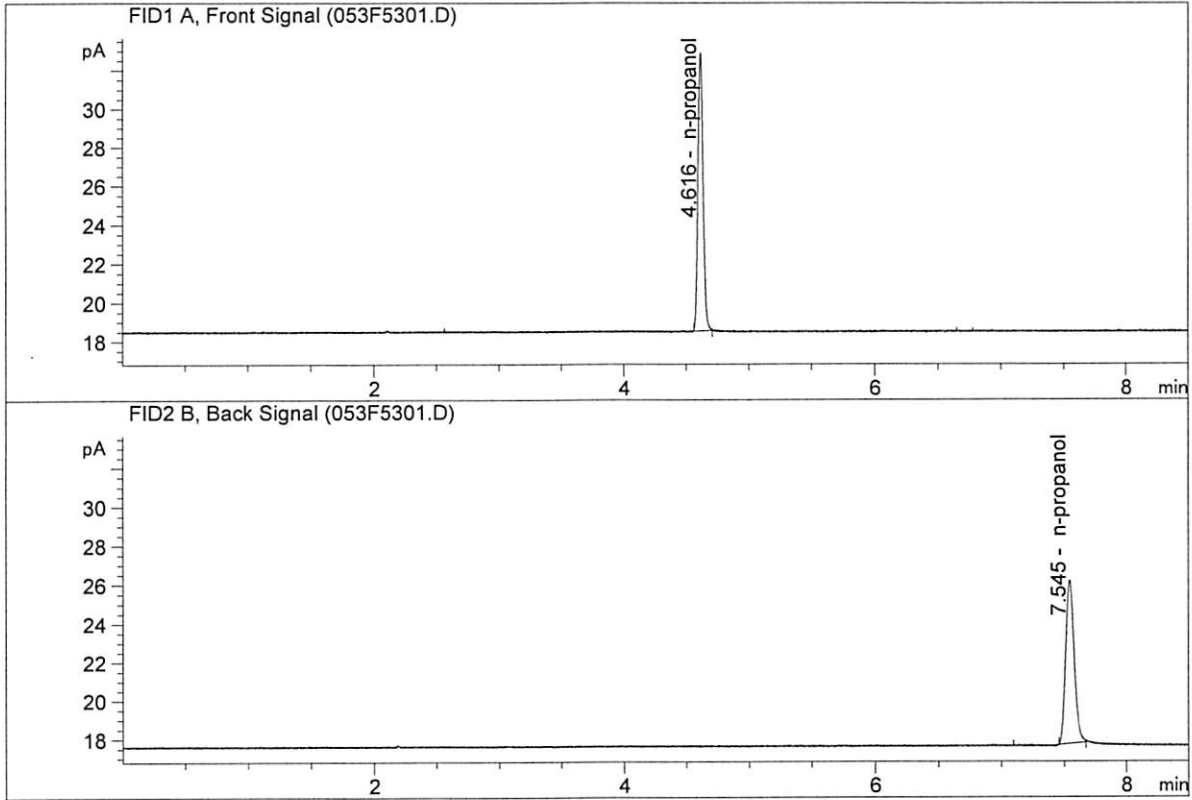


| #  | Compound   | Column    | Area     | Amount | Units   |
|----|------------|-----------|----------|--------|---------|
| 1. | Ethanol    | Column 1: | 7.67526  | 0.1518 | g/100cc |
| 2. | Ethanol    | Column 2: | 7.81246  | 0.1520 | g/100cc |
| 3. | n-Propanol | Column 1: | 24.51630 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 24.52893 | 1.0000 | g/100cc |

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ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK  
 Laboratory : Meridian  
 Injection Date : Jan 27, 2017  
 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: | 40.89955 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 40.37193 | 1.0000 | g/100cc |

NB

S a m p l e S u m m a r y

Sequence table: C:\Chem32\1\Data\01-26-17\_SAMPLES\01-26-17\_SAMPLES 2017-01-26 16-25-59\01-26-17\_SAMPLES.S  
 Data directory path: C:\Chem32\1\Data\01-26-17\_SAMPLES\01-26-17\_SAMPLES 2017-01-26 16-25-59\  
 Logbook: C:\Chem32\1\Data\01-26-17\_SAMPLES\01-26-17\_SAMPLES 2017-01-26 16-25-59\01-26-17\_SAMPLES.LOG  
 Sequence start: 1/26/2017 4:40:46 PM  
 Sequence Operator: SYSTEM  
 Operator: SYSTEM  
 Method file name: C:\Chem32\1\Data\01-26-17\_SAMPLES\01-26-17\_SAMPLES 2017-01-26 16-25-59\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 FN092314 | -                    | 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     | M2017-0289-1-A   | -                    | 1.0000            | 007F0701.D |       | 4   |
| 8     | 8          | 1     | M2017-0289-1-B   | -                    | 1.0000            | 008F0801.D |       | 4   |
| 9     | 9          | 1     | M2017-0289-2-A   | -                    | 1.0000            | 009F0901.D |       | 4   |
| 10    | 10         | 1     | M2017-0289-2-B   | -                    | 1.0000            | 010F1001.D |       | 4   |
| 11    | 11         | 1     | M2017-0289-3-A   | -                    | 1.0000            | 011F1101.D |       | 4   |
| 12    | 12         | 1     | M2017-0289-3-B   | -                    | 1.0000            | 012F1201.D |       | 4   |
| 13    | 13         | 1     | M2017-0289-4-A   | -                    | 1.0000            | 013F1301.D |       | 4   |
| 14    | 14         | 1     | M2017-0289-4-B   | -                    | 1.0000            | 014F1401.D |       | 4   |
| 15    | 15         | 1     | M2017-0295-1-A   | -                    | 1.0000            | 015F1501.D |       | 2   |
| 16    | 16         | 1     | M2017-0295-1-B   | -                    | 1.0000            | 016F1601.D |       | 2   |
| 17    | 17         | 1     | M2017-0297-1-A   | -                    | 1.0000            | 017F1701.D |       | 4   |
| 18    | 18         | 1     | M2017-0297-1-B   | -                    | 1.0000            | 018F1801.D |       | 4   |
| 19    | 19         | 1     | M2017-0298-1-A   | -                    | 1.0000            | 019F1901.D |       | 4   |
| 20    | 20         | 1     | M2017-0298-1-B   | -                    | 1.0000            | 020F2001.D |       | 4   |
| 21    | 21         | 1     | M2017-0299-1-A   | -                    | 1.0000            | 021F2101.D |       | 4   |
| 22    | 22         | 1     | M2017-0299-1-B   | -                    | 1.0000            | 022F2201.D |       | 4   |
| 23    | 23         | 1     | M2017-0305-1-A   | -                    | 1.0000            | 023F2301.D |       | 4   |
| 24    | 24         | 1     | M2017-0305-1-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     | M2017-0306-1-A   | -                    | 1.0000            | 027F2701.D |       | 4   |
| 28    | 28         | 1     | M2017-0306-1-B   | -                    | 1.0000            | 028F2801.D |       | 4   |
| 29    | 29         | 1     | M2017-0308-1-A   | -                    | 1.0000            | 029F2901.D |       | 4   |
| 30    | 30         | 1     | M2017-0308-1-B   | -                    | 1.0000            | 030F3001.D |       | 4   |
| 31    | 31         | 1     | M2017-0309-1-A   | -                    | 1.0000            | 031F3101.D |       | 4   |
| 32    | 32         | 1     | M2017-0309-1-B   | -                    | 1.0000            | 032F3201.D |       | 4   |
| 33    | 33         | 1     | M2017-0310-1-A   | -                    | 1.0000            | 033F3301.D |       | 4   |
| 34    | 34         | 1     | M2017-0310-1-B   | -                    | 1.0000            | 034F3401.D |       | 4   |
| 35    | 35         | 1     | M2017-0311-1-A   | -                    | 1.0000            | 035F3501.D |       | 4   |
| 36    | 36         | 1     | M2017-0311-1-B   | -                    | 1.0000            | 036F3601.D |       | 4   |
| 37    | 37         | 1     | M2017-0324-1-A   | -                    | 1.0000            | 037F3701.D |       | 4   |
| 38    | 38         | 1     | M2017-0324-1-B   | -                    | 1.0000            | 038F3801.D |       | 4   |
| 39    | 39         | 1     | M2017-0357-1-A   | -                    | 1.0000            | 039F3901.D |       | 4   |
| 40    | 40         | 1     | M2017-0357-1-B   | -                    | 1.0000            | 040F4001.D |       | 4   |
| 41    | 41         | 1     | M2017-0358-1-A   | -                    | 1.0000            | 041F4101.D |       | 4   |
| 42    | 42         | 1     | M2017-0358-1-B   | -                    | 1.0000            | 042F4201.D |       | 4   |
| 43    | 43         | 1     | M2017-0363-1-A   | -                    | 1.0000            | 043F4301.D |       | 4   |

*MB*

| Run # | Location # | Inj # | Sample Name      | Sample Amt [g/100cc] | Multip.* Dilution | File name  | Cal # | # Cmp |
|-------|------------|-------|------------------|----------------------|-------------------|------------|-------|-------|
| 44    | 44         | 1     | M2017-0363-1-B   | -                    | 1.0000            | 044F4401.D |       | 4     |
| 45    | 45         | 1     | M2017-0364-1-A   | -                    | 1.0000            | 045F4501.D |       | 4     |
| 46    | 46         | 1     | M2017-0364-1-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     | P2017-0128-1-A   | -                    | 1.0000            | 049F4901.D |       | 4     |
| 50    | 50         | 1     | P2017-0128-1-B   | -                    | 1.0000            | 050F5001.D |       | 4     |
| 51    | 51         | 1     | QC2-2-A          | -                    | 1.0000            | 051F5101.D |       | 4     |
| 52    | 52         | 1     | QC2-2-B          | -                    | 1.0000            | 052F5201.D |       | 4     |
| 53    | 53         | 1     | INTERNAL STD BLK | -                    | 1.0000            | 053F5301.D |       | 2     |

Method file name: C:\Chem32\1\Data\01-26-17\_SAMPLES\01-26-17\_SAMPLES 2017-01-26 16-25-59  
 \SHUTDOWN.M

| Run # | Location # | Inj # | Sample Name | Sample Amt [g/100cc] | Multip.* Dilution | File name  | Cal # | # Cmp |
|-------|------------|-------|-------------|----------------------|-------------------|------------|-------|-------|
| 54    | 54         | 1     | EMPTY       | -                    | 1.0000            | 054F5401.D |       | 0     |

*NB*

=====  
Calibration Table  
=====

-----  
General Calibration Setting  
-----

Calib. Data Modified : Monday, January 16, 2017 11:48:09 AM  
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<br>[g/100cc] | Area     | Rsp.Factor | Ref | ISTD # | Compound          |
|-------|-----|-----|---------------------|----------|------------|-----|--------|-------------------|
| 2.586 | 1   | 1   | 1.00000             | 3.69669  | 2.70512e-1 | No  | No 1   | methanol          |
| 3.073 | 1   | 1   | 5.00000e-2          | 4.20851  | 1.18807e-2 | No  | No 1   | ethanol           |
|       |     | 2   | 1.00000e-1          | 8.39419  | 1.19130e-2 |     |        |                   |
|       |     | 3   | 2.00000e-1          | 16.80243 | 1.19030e-2 |     |        |                   |
|       |     | 4   | 3.00000e-1          | 25.91469 | 1.15764e-2 |     |        |                   |
|       |     | 5   | 5.00000e-1          | 42.52475 | 1.17579e-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          | 4.15636  | 1.20298e-2 | No  | No 2   | ethanol           |
|       |     | 2   | 1.00000e-1          | 8.36420  | 1.19557e-2 |     |        |                   |
|       |     | 3   | 2.00000e-1          | 16.98506 | 1.17751e-2 |     |        |                   |
|       |     | 4   | 3.00000e-1          | 26.61126 | 1.12734e-2 |     |        |                   |
|       |     | 5   | 5.00000e-1          | 44.31466 | 1.12829e-2 |     |        |                   |
| 4.308 | 1   | 1   | 1.00000             | 6.49940  | 1.53860e-1 | No  | No 1   | acetone           |
| 4.617 | 1   | 1   | 1.00000             | 41.11255 | 2.43235e-2 | No  | Yes 1  | n-propanol        |
|       |     | 2   | 1.00000             | 40.87407 | 2.44654e-2 |     |        |                   |
|       |     | 3   | 1.00000             | 40.46025 | 2.47156e-2 |     |        |                   |
|       |     | 4   | 1.00000             | 42.04975 | 2.37814e-2 |     |        |                   |
|       |     | 5   | 1.00000             | 41.02768 | 2.43738e-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 |
| 7.549 | 2   | 1   | 1.00000             | 41.47831 | 2.41090e-2 | No  | Yes 2  | n-propanol        |
|       |     | 2   | 1.00000             | 40.98298 | 2.44004e-2 |     |        |                   |
|       |     | 3   | 1.00000             | 40.34707 | 2.47849e-2 |     |        |                   |
|       |     | 4   | 1.00000             | 41.83976 | 2.39007e-2 |     |        |                   |
|       |     | 5   | 1.00000             | 40.74162 | 2.45449e-2 |     |        |                   |

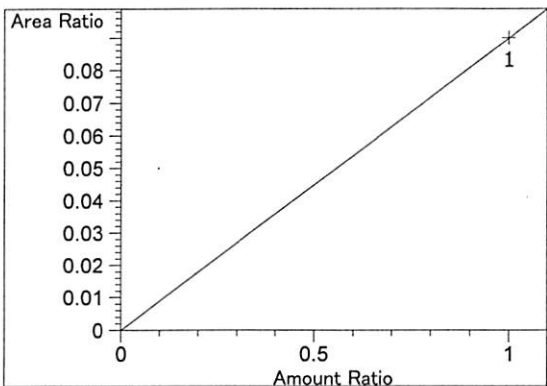
Peak Sum Table

\*\*\*No Entries in table\*\*\*

1 Warnings or Errors :

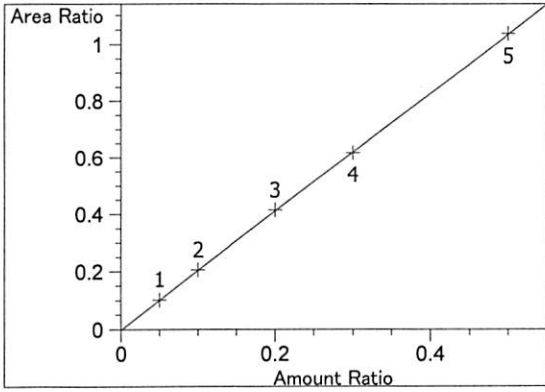
Warning : Curve requires more calibration points., (methanol)

Calibration Curves

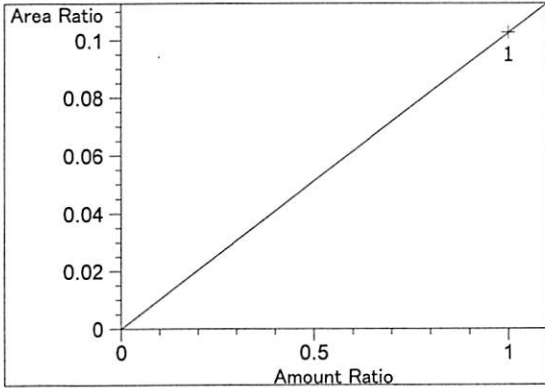


methanol at exp. RT: 2.586  
 FID1 A, Front Signal  
 Correlation: 1.00000  
 Residual Std. Dev.: 0.00000  
 Formula:  $y = mx + b$   
 m: 8.99165e-2  
 b: 0.00000  
 x: Amount Ratio  
 y: Area Ratio

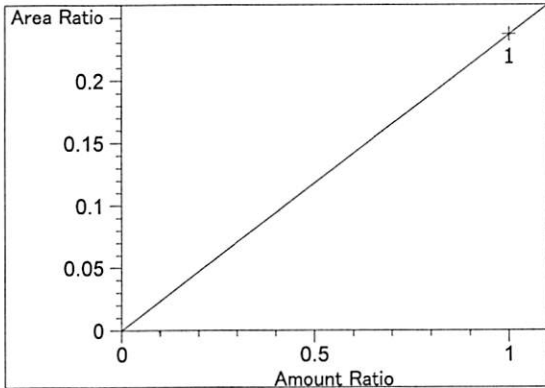
*NB*



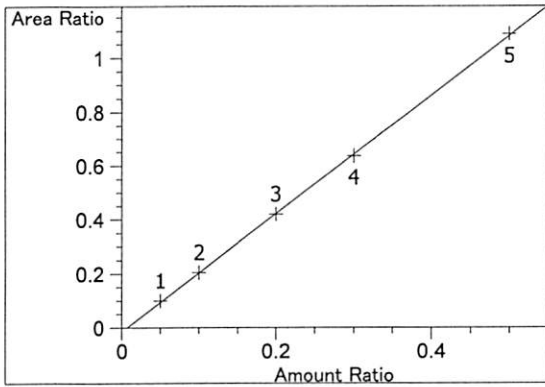
ethanol at exp. RT: 3.073  
FID1 A, Front Signal  
Correlation: 0.99998  
Residual Std. Dev.: 0.00283  
Formula:  $y = mx + b$   
m: 2.07352  
b: -1.75083e-3  
x: Amount Ratio  
y: Area Ratio



methanol at exp. RT: 3.388  
FID2 B, Back Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx + b$   
m: 1.02719e-1  
b: 0.00000  
x: Amount Ratio  
y: Area Ratio

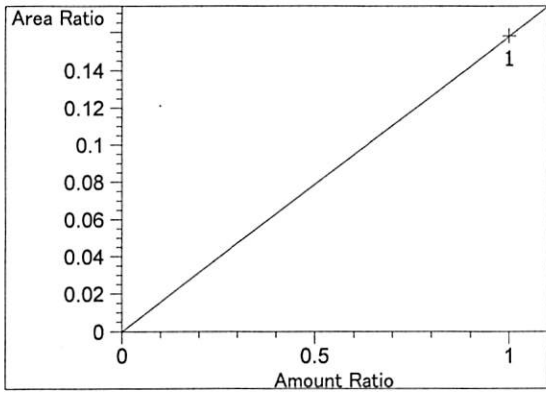


isopropyl alcohol at exp. RT: 3.628  
FID1 A, Front Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx + b$   
m: 2.36681e-1  
b: 0.00000  
x: Amount Ratio  
y: Area Ratio

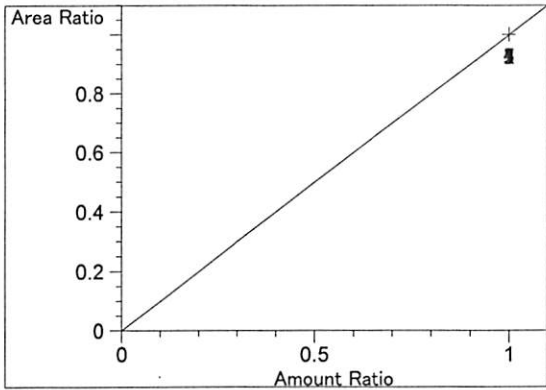


ethanol at exp. RT: 4.285  
FID2 B, Back Signal  
Correlation: 0.99990  
Residual Std. Dev.: 0.00638  
Formula:  $y = mx + b$   
m: 2.19534  
b: -1.51280e-2  
x: Amount Ratio  
y: Area Ratio

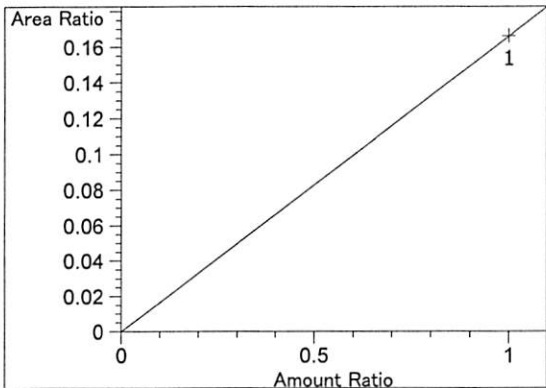
NB



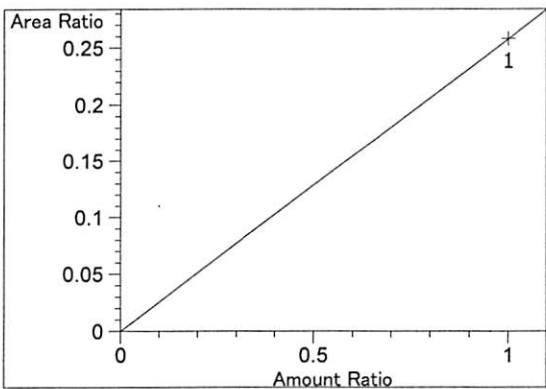
acetone at exp. RT: 4.308  
FID1 A, Front Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx + b$   
m: 1.58088e-1  
b: 0.00000  
x: Amount Ratio  
y: Area Ratio



n-propanol at exp. RT: 4.617  
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

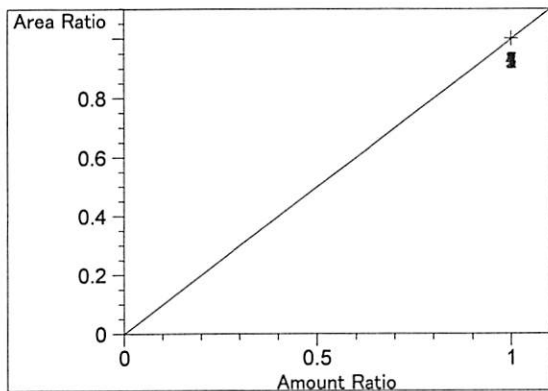


acetone at exp. RT: 4.661  
FID2 B, Back Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx + b$   
m: 1.66183e-1  
b: 0.00000  
x: Amount Ratio  
y: Area Ratio



isopropyl alcohol at exp. RT: 4.969  
FID2 B, Back Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx + b$   
m: 2.58121e-1  
b: 0.00000  
x: Amount Ratio  
y: Area Ratio

NB



n-propanol at exp. RT: 7.549  
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

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NB