

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

*Analytical Method(s): 1.0*

*Device: Hamilton MICROLAB 503A Liquid Processor/Dilutor Serial Number: MD-96BC1382/MD944M10010*

**Volatiles Quality Assurance Controls**

**Run Date(s): 08/16/2017-08/17/2017**

**Calibration Date: 8/16/2017**

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-18	1407031	0.0780	0.0702 - 0.0858	0.0763 g/100cc
					0.0783 g/100cc
Level 2	Jul-18	1407032	0.2020	0.1818 - 0.2222	0.2001 g/100cc
					0.2090 g/100cc
Multi-Component Mixture			Exp: Oct 2019	Lot # FN09231404	OK
Curve Fit:			Column 1	1.00000	Column 2 0.99992

Ethanol Calibration Reference Material								
Calibrator level	Expiration	Ceriliant Lot #	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
0.050	Jul-19	FN06231406	0.050	0.045 - 0.055	0.0495	0.0479	0.0016	0.0487
0.080			0.080	0.072 - 0.088			0	#DIV/0!
0.100	Jun-20	FN06181501	0.100	0.090 - 0.110	0.0989	0.0960	0.0029	0.0974
0.200	Oct-20	FN07201502	0.200	0.180 - 0.220	0.1992	0.1948	0.0044	0.197
0.300	Feb-21	FN02121601	0.300	0.270 - 0.330	0.3009	0.2990	0.0019	0.2999
0.400			0.400	0.360 - 0.440			0	#DIV/0!
0.500	Aug-19	FN07031402	0.500	0.450 - 0.550	0.5001	0.5037	0.0036	0.5019

Aqueous Controls					
Control level	Expiration	Ceriliant Lot #	Target Value	Acceptable Range	Overall Results
0.080	Nov-20	FN10281510	0.08000	0.076 - 0.084	0.078 g/100cc

Issued: 4/22/2015

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

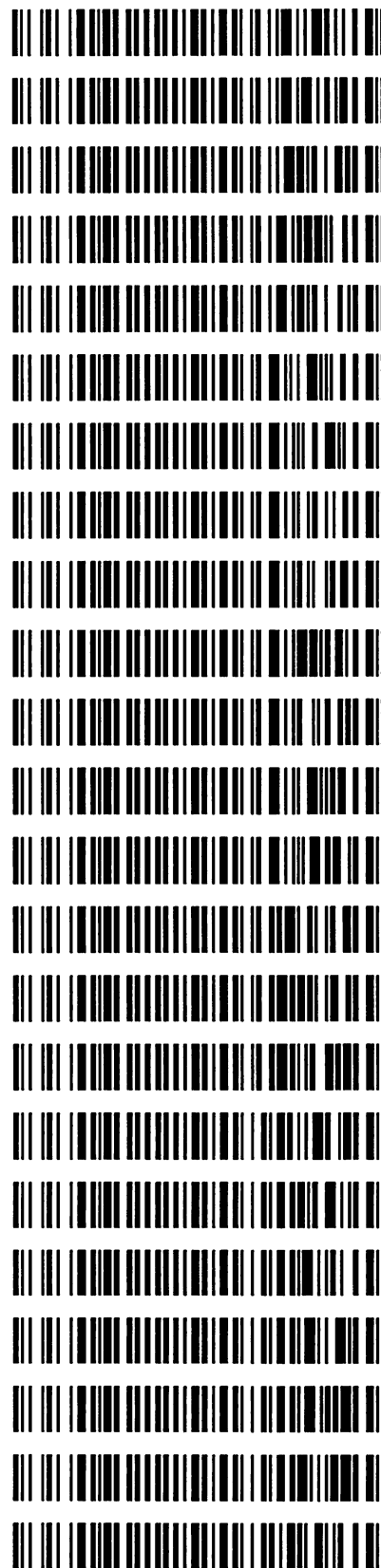
Volatiles QA/QC data spreadsheet Rev 5

Issuing Authority: Quality Manager

SV

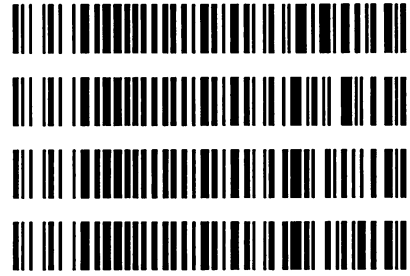
**Worklist: 1854**

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>
M2017-3572	1	92395	Alcohol Analysis
M2017-3572	2	92396	Alcohol Analysis
M2017-3580	1	91490	Alcohol Analysis
M2017-3611	1	91681	Alcohol Analysis
M2017-3612	1	91685	Alcohol Analysis
M2017-3628	1	91793	Alcohol Analysis
M2017-3632	1	92393	Alcohol Analysis
M2017-3632	2	92394	Alcohol Analysis
M2017-3651	1	91859	Alcohol Analysis
M2017-3652	1	91860	Alcohol Analysis
M2017-3653	1	91861	Alcohol Analysis
M2017-3654	1	91865	Alcohol Analysis
M2017-3655	1	91866	Alcohol Analysis
M2017-3672	1	91888	Alcohol Analysis
M2017-3697	1	91961	Alcohol Analysis
M2017-3699	1	91967	Alcohol Analysis
M2017-3714	1	92047	Alcohol Analysis
M2017-3719	1	92085	Alcohol Analysis
M2017-3727	1	92124	Alcohol Analysis
M2017-3728	1	92128	Alcohol Analysis
M2017-3729	1	92129	Alcohol Analysis
M2017-3730	1	92133	Alcohol Analysis
M2017-3737	1	92356	Alcohol Analysis



**Worklist: 1854**

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>
P2017-1678	2	91363	Alcohol Analysis
P2017-1787	2	91710	Alcohol Analysis
P2017-1829	3	92397	Alcohol Analysis
P2017-1829	4	92398	Alcohol Analysis



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Calibration Table  
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General Calibration Setting  
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Calib. Data Modified : 8/16/2017 4:51:52 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 : Forced  
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

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

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Overview Table  
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24

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	2	1	1.00000	4.26100	2.34687e-1	No	No 2	Acetaldehyde
2.977	1	1	1.00000	4.26100	2.34687e-1	No	No 2	Acetaldehyde
3.073	1	1	5.00000e-2	4.33282	1.15398e-2	No	No 1	ethanol
		2	1.00000e-1	8.61514	1.16075e-2			
		3	2.00000e-1	17.56094	1.13889e-2			
		4	3.00000e-1	26.18142	1.14585e-2			
		5	5.00000e-1	43.90987	1.13870e-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	4.42240	1.13061e-2	No	No 2	ethanol
		2	1.00000e-1	8.75870	1.14172e-2			
		3	2.00000e-1	18.00656	1.11071e-2			
		4	3.00000e-1	27.01361	1.11055e-2			
		5	5.00000e-1	45.88974	1.08957e-2			
4.308	1	1	1.00000	6.49940	1.53860e-1	No	No 1	acetone
4.617	1	1	1.00000	40.84912	2.44803e-2	No	Yes 1	n-propanol
		2	1.00000	40.62896	2.46130e-2			
		3	1.00000	41.12878	2.43139e-2			
		4	1.00000	40.60155	2.46296e-2			
		5	1.00000	40.96723	2.44098e-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	41.64936	2.40100e-2	No	Yes 2	n-propanol
		2	1.00000	41.17005	2.42895e-2			
		3	1.00000	41.70383	2.39786e-2			
		4	1.00000	40.76796	2.45291e-2			
		5	1.00000	41.10634	2.43271e-2			

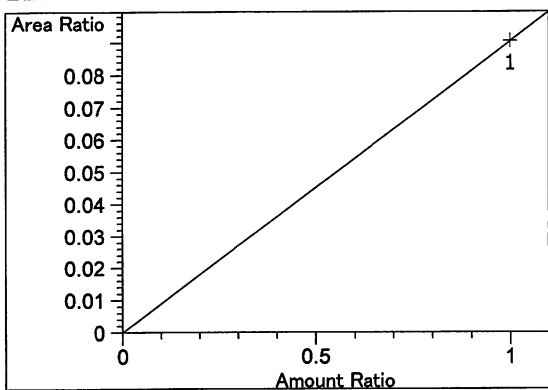
Peak Sum Table

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

1 Warnings or Errors :

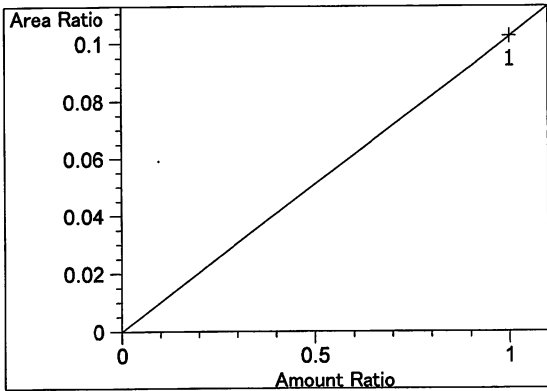
Warning : Overlapping peak time windows at 2.977 min, signal 1

Calibration Curves

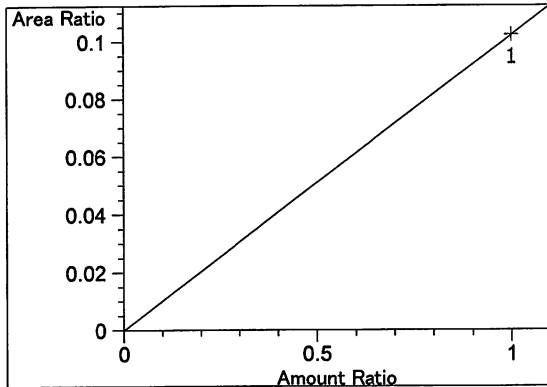


methanol at exp. RT: 2.586  
 FID1 A, Front Signal  
 Correlation: 1.00000  
 Residual Std. Dev.: 0.00000  
 Formula:  $y = mx$   
 m: 9.04963e-2  
 x: Amount Ratio  
 y: Area Ratio

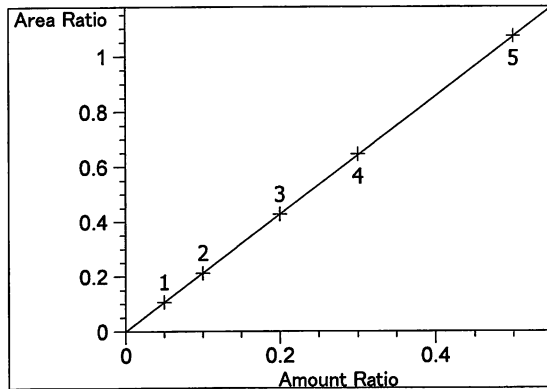
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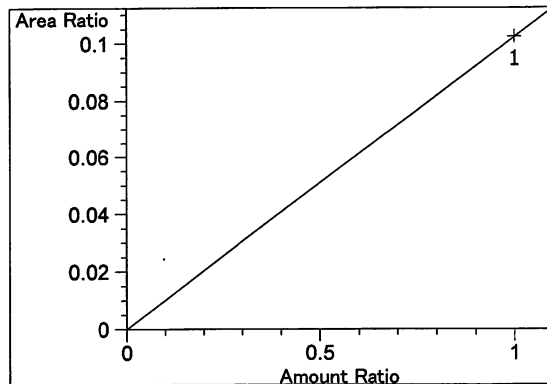
Acetaldehyde at exp. RT: 2.809  
 FID2 B, Back Signal  
 Correlation: 1.00000  
 Residual Std. Dev.: 0.00000  
 Formula:  $y = mx$   
 m: 1.02306e-1  
 x: Amount Ratio  
 y: Area Ratio



Acetaldehyde at exp. RT: 2.977  
 FID1 A, Front Signal  
 Correlation: 1.00000  
 Residual Std. Dev.: 0.00000  
 Formula:  $y = mx$   
 m: 1.02306e-1  
 x: Amount Ratio  
 y: Area Ratio

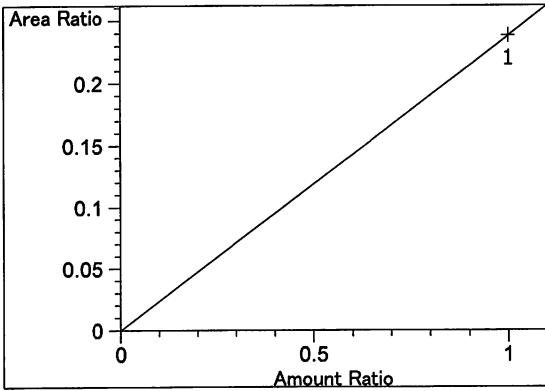


ethanol at exp. RT: 3.073  
 FID1 A, Front Signal  
 Correlation: 1.00000  
 Residual Std. Dev.: 0.00178  
 Formula:  $y = mx$   
 m: 2.14336  
 x: Amount Ratio  
 y: Area Ratio

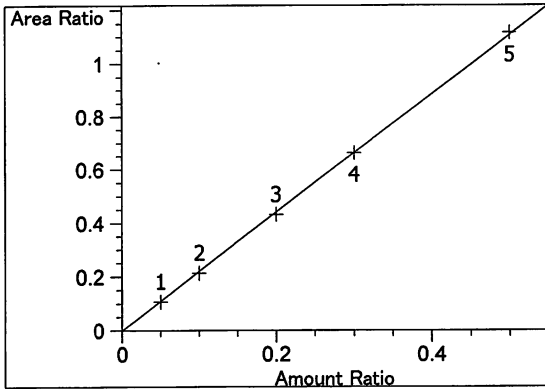


methanol at exp. RT: 3.388  
 FID2 B, Back Signal  
 Correlation: 1.00000  
 Residual Std. Dev.: 0.00000  
 Formula:  $y = mx$   
 m: 1.02297e-1  
 x: Amount Ratio  
 y: Area Ratio

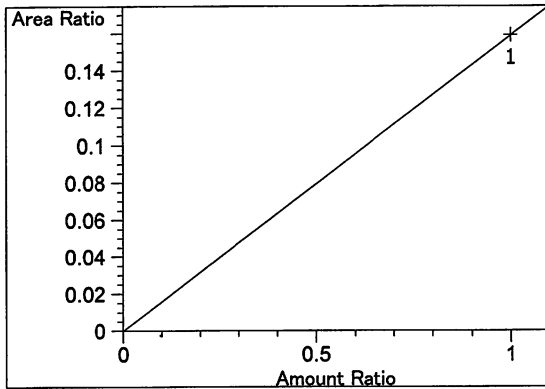
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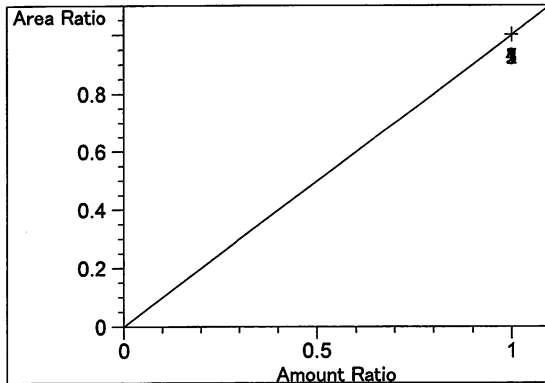
isopropyl alcohol at exp. RT: 3.628  
FID1 A, Front Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 2.38207e-1  
x: Amount Ratio  
y: Area Ratio



ethanol at exp. RT: 4.285  
FID2 B, Back Signal  
Correlation: 0.99992  
Residual Std. Dev.: 0.00873  
Formula:  $y = mx$   
m: 2.21632  
x: Amount Ratio  
y: Area Ratio

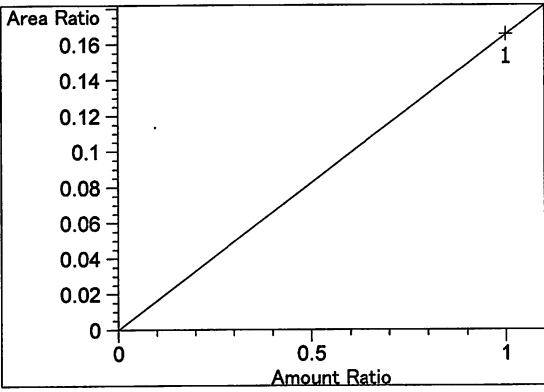


acetone at exp. RT: 4.308  
FID1 A, Front Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 1.59108e-1  
x: Amount Ratio  
y: Area Ratio

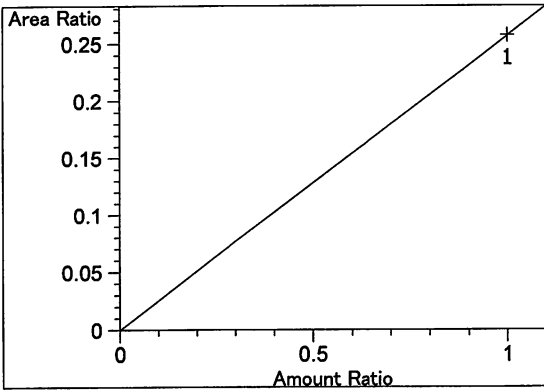


n-propanol at exp. RT: 4.617  
FID1 A, Front Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 1.00000  
x: Amount Ratio  
y: Area Ratio

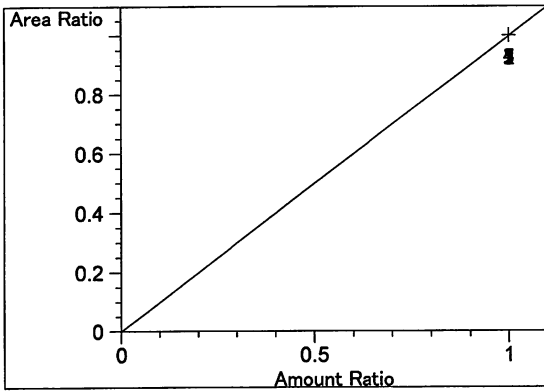
Ju



acetone at exp. RT: 4.661  
FID2 B, Back Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 1.65501e-1  
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:  $y = mx$   
m: 2.57061e-1  
x: Amount Ratio  
y: Area Ratio



n-propanol at exp. RT: 7.549  
FID2 B, Back Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 1.00000  
x: Amount Ratio  
y: Area Ratio

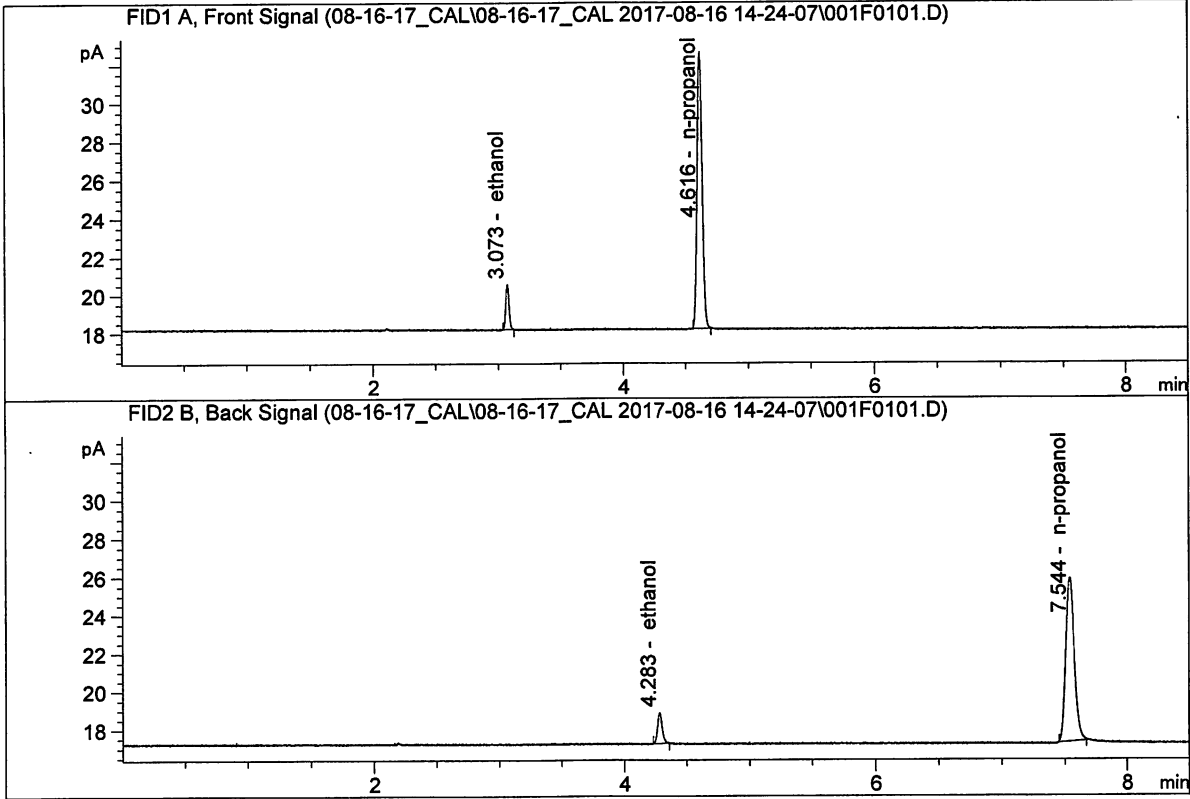
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JG



ISP Forensic Services Blood Alcohol Report

Sample Name : 0.050 FN06231406  
 Laboratory : Meridian  
 Injection Date : Aug 16, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167

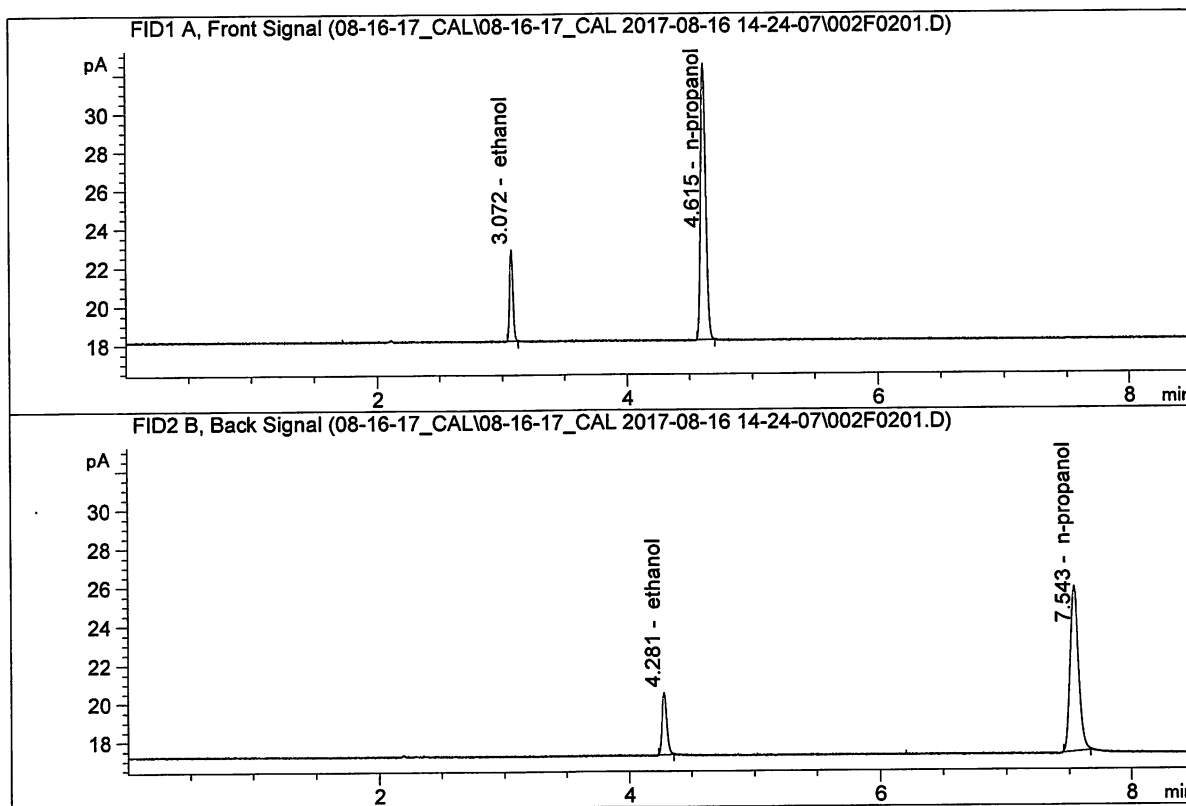


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	4.33282	0.0495	g/100cc
2.	Ethanol	Column 2:	4.42240	0.0479	g/100cc
3.	n-Propanol	Column 1:	40.84912	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.64936	1.0000	g/100cc

Ja

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.100 FN06181501  
 Laboratory : Meridian  
 Injection Date : Aug 16, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167

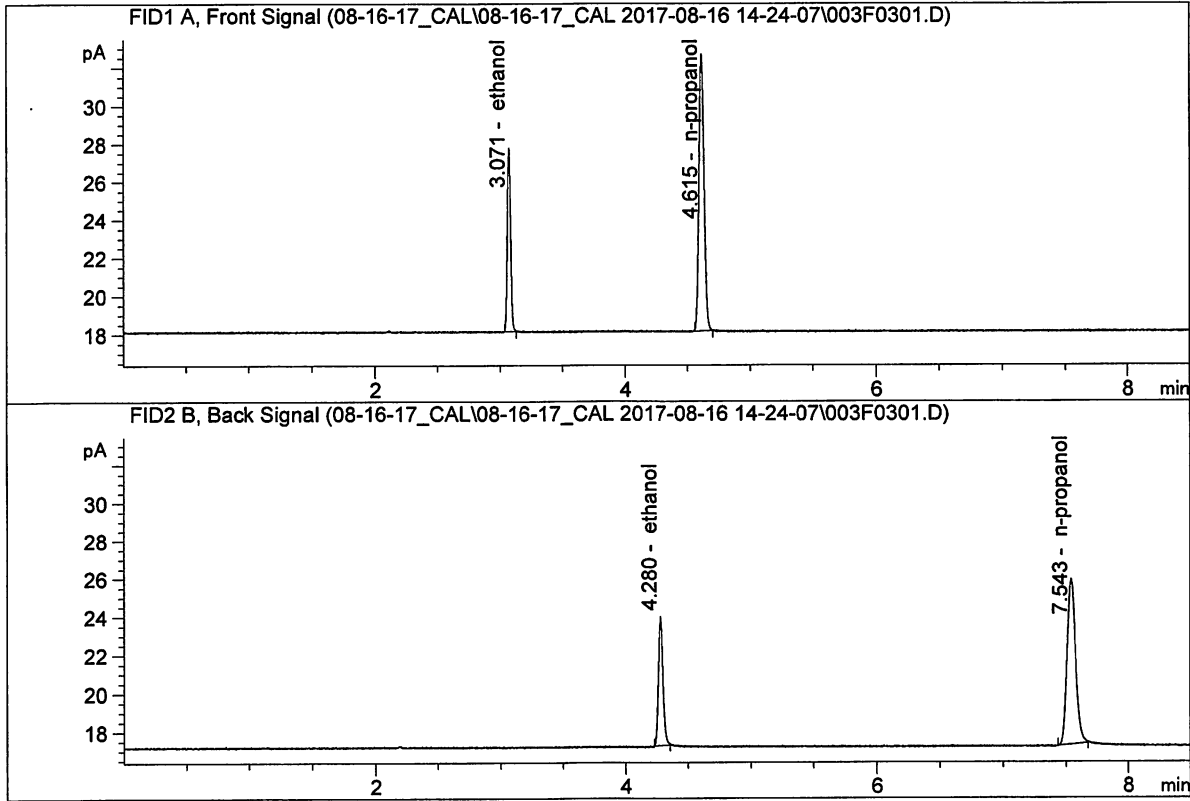


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.61514	0.0989	g/100cc
2.	Ethanol	Column 2:	8.75870	0.0960	g/100cc
3.	n-Propanol	Column 1:	40.62896	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.17005	1.0000	g/100cc

dc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.200 FN07201502  
 Laboratory : Meridian  
 Injection Date : Aug 16, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167

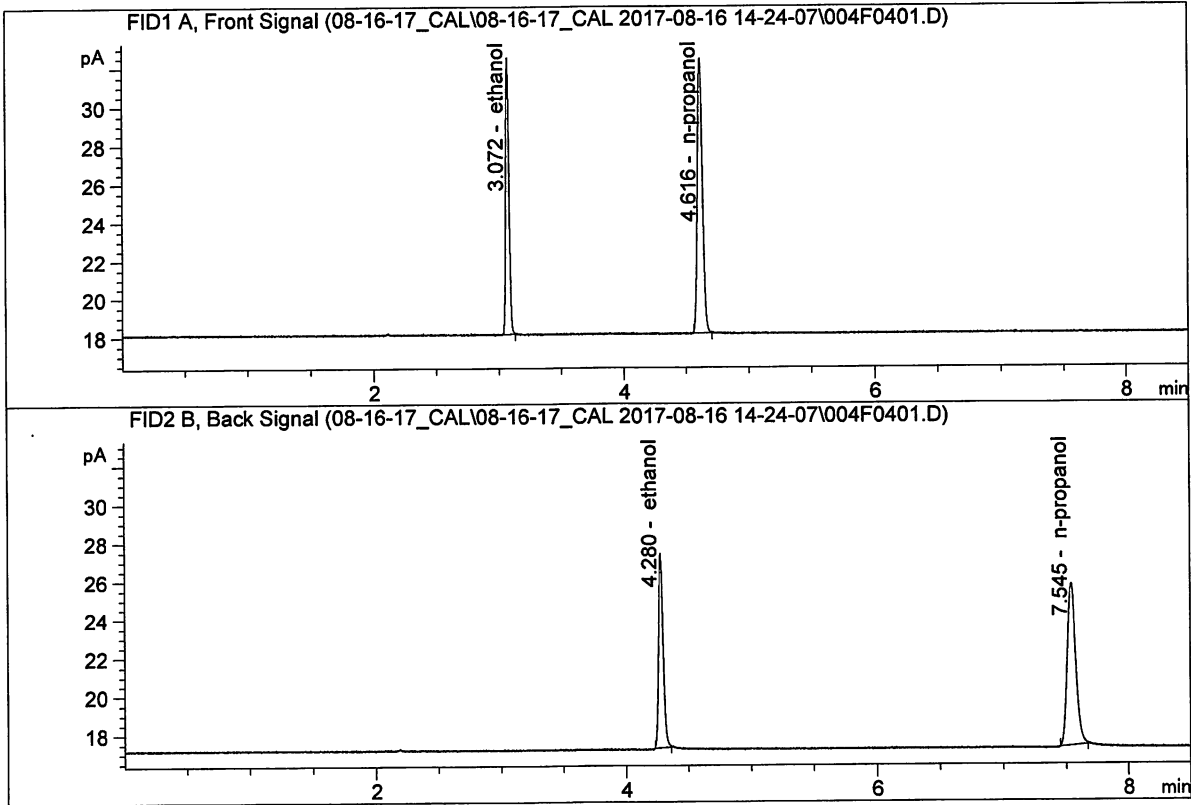


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.56094	0.1992	g/100cc
2.	Ethanol	Column 2:	18.00656	0.1948	g/100cc
3.	n-Propanol	Column 1:	41.12878	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.70383	1.0000	g/100cc

SC

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.300 FN02121601  
 Laboratory : Meridian  
 Injection Date : Aug 16, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167

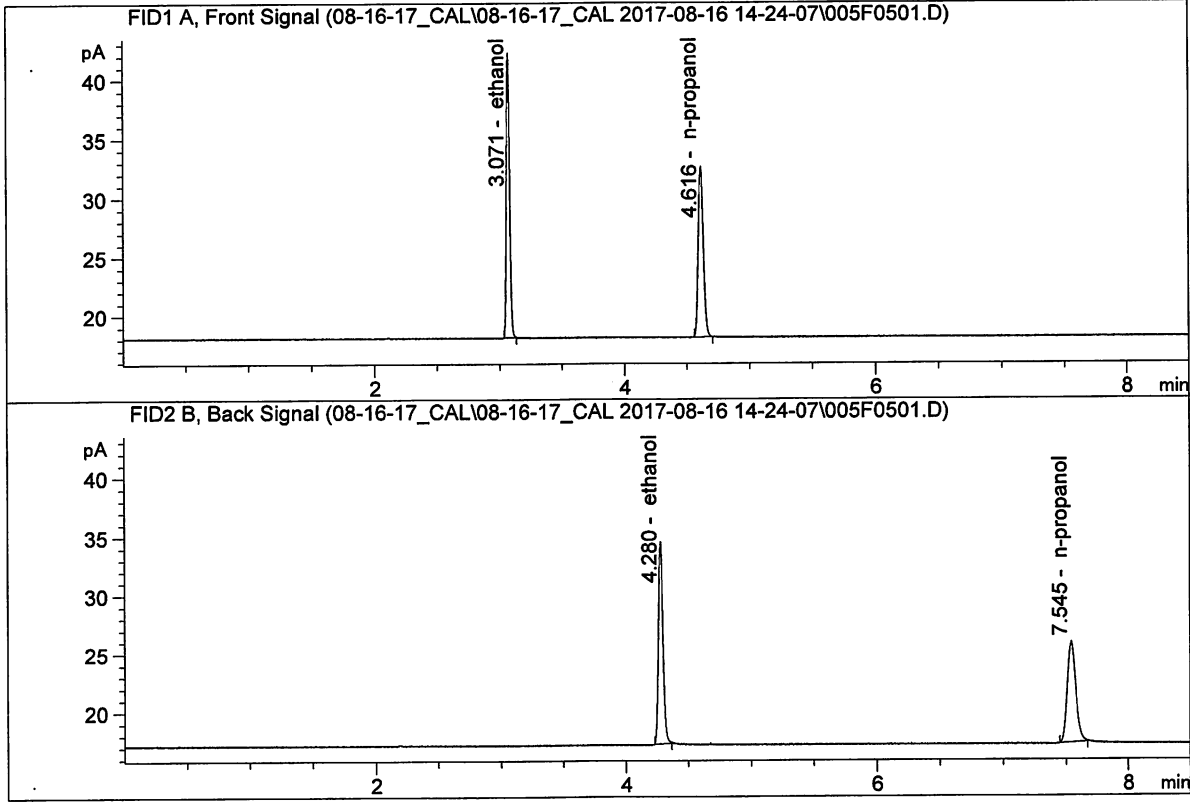


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	26.18142	0.3009	g/100cc
2.	Ethanol	Column 2:	27.01361	0.2990	g/100cc
3.	n-Propanol	Column 1:	40.60155	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.76796	1.0000	g/100cc

Jc

ISP Forensic Services Blood Alcohol Report

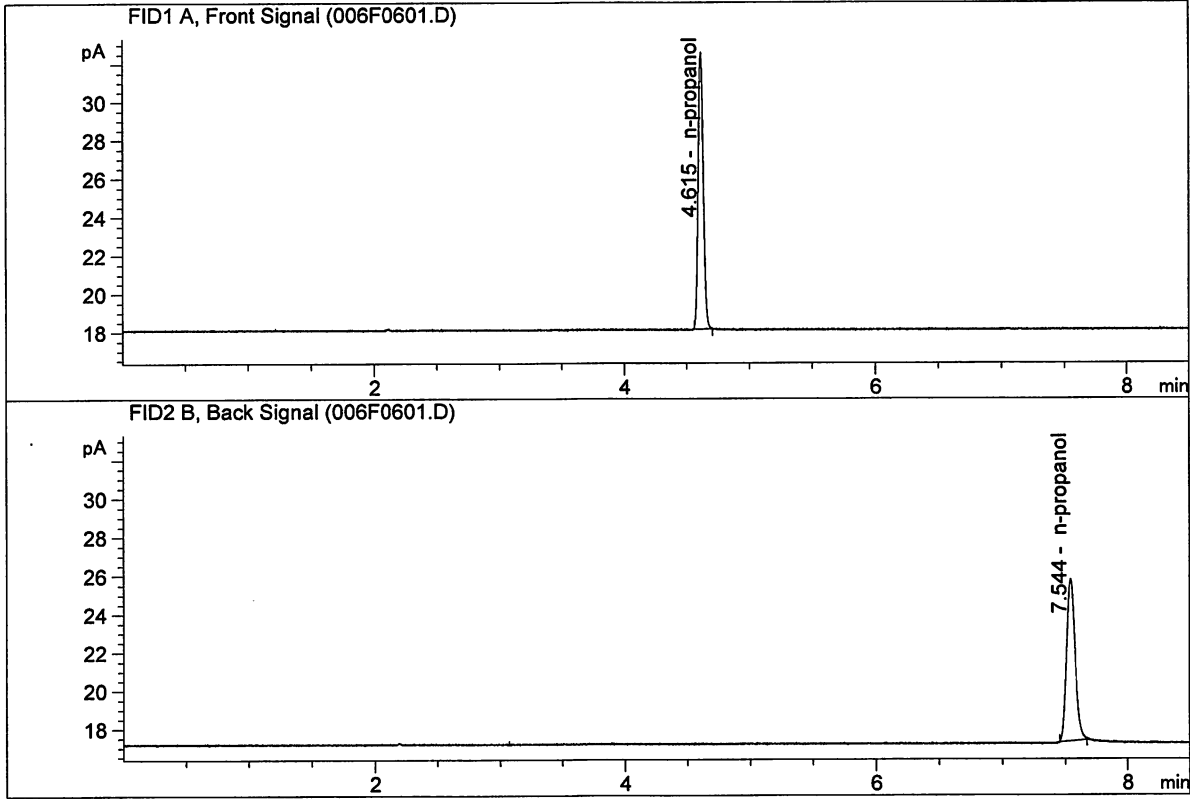
Sample Name : 0.500 FN07031402  
 Laboratory : Meridian  
 Injection Date : Aug 16, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	43.90987	0.5001	g/100cc
2.	Ethanol	Column 2:	45.88974	0.5037	g/100cc
3.	n-Propanol	Column 1:	40.96723	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.10634	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STANDARD BLANK  
 Laboratory : Meridian  
 Injection Date : Aug 16, 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:	40.90289	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.19522	1.0000	g/100cc

*JK*

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

Sequence table: C:\Chem32\1\Data\08-16-17\_CAL\08-16-17\_CAL 2017-08-16 14-24-07\08-16-17\_CAL.S  
 Data directory path: C:\Chem32\1\Data\08-16-17\_CAL\08-16-17\_CAL 2017-08-16 14-24-07\  
 Logbook: C:\Chem32\1\Data\08-16-17\_CAL\08-16-17\_CAL 2017-08-16 14-24-07\08-16-17\_CAL.LOG  
 Sequence start: 8/16/2017 2:38:43 PM  
 Sequence Operator: SYSTEM  
 Operator: SYSTEM

Method file name: C:\Chem32\1\Data\08-16-17\_CAL\08-16-17\_CAL 2017-08-16 14-24-07\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 FN07201502	-	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

*New mask method saved.*

*~~C:\chem32~~ JC C:\chem32\1\methods\alcohol.m*

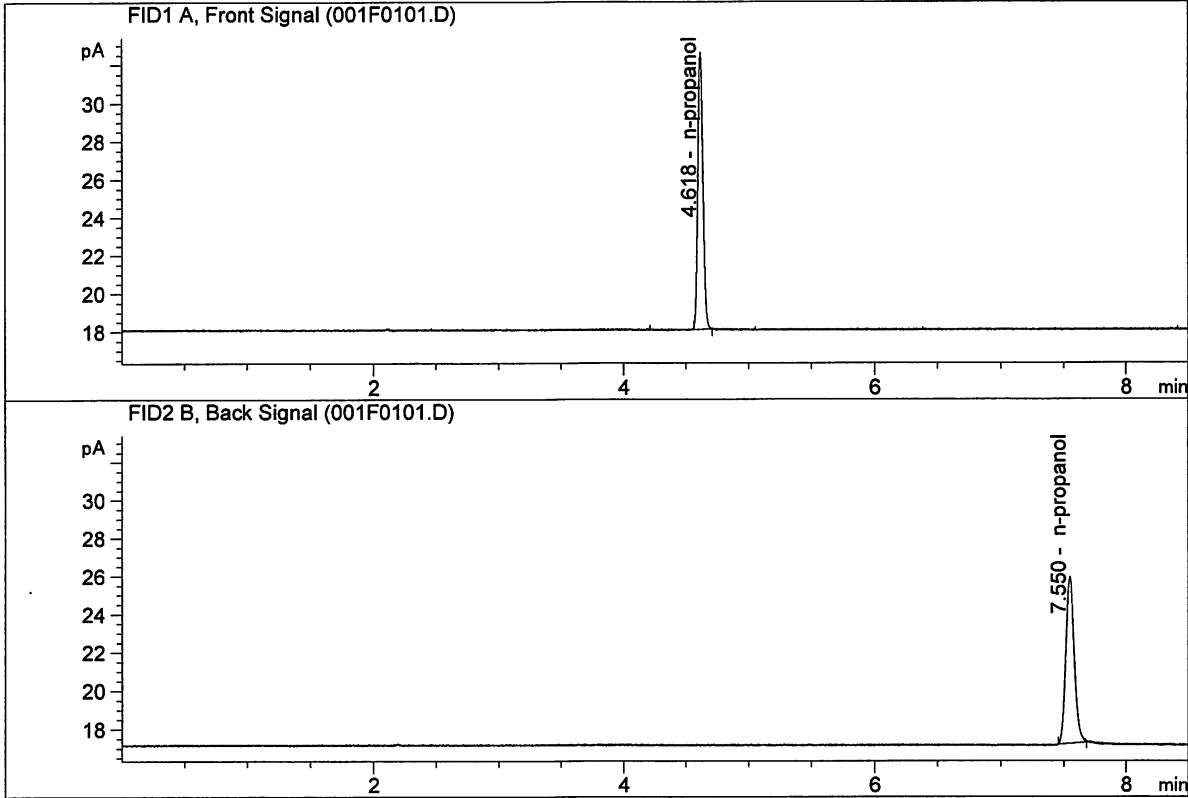
*Calibration data updated 8/16/17*

*JG*

*JG*

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1  
 Laboratory : Meridian  
 Injection Date : Aug 16, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



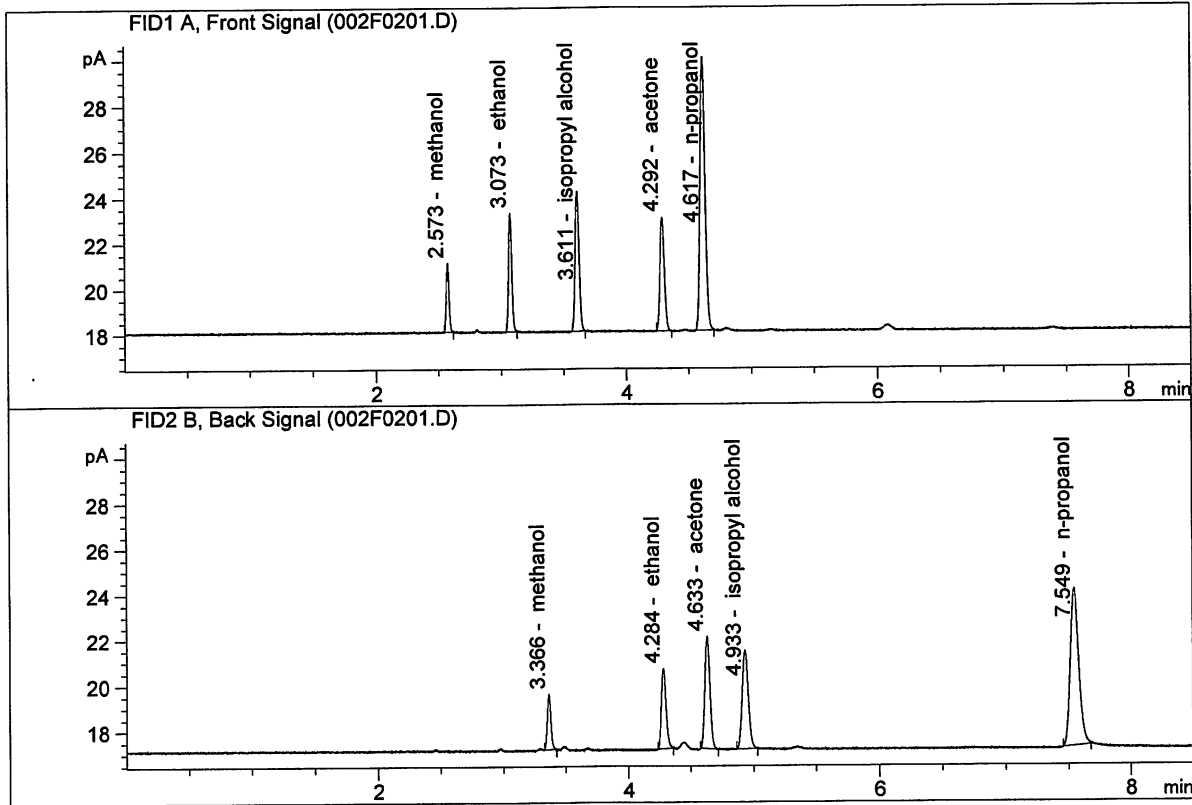
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	41.24020	1.0000	g/100cc
4.	n-Propanol	Column 2:	42.01377	1.0000	g/100cc

dc



ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN09231404  
 Laboratory : Meridian  
 Injection Date : Aug 16, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	9.19087	0.1282	g/100cc
2.	Ethanol	Column 2:	9.29430	0.1252	g/100cc
3.	n-Propanol	Column 1:	33.44786	1.0000	g/100cc
4.	n-Propanol	Column 2:	33.48352	1.0000	g/100cc

JK

## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1

Analysis Date(s): 16 Aug 2017

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0778	0.0755	0.0023	0.0766	0.0763	
(g/100cc)	0.0771	0.0748	0.0023	0.0759		

### 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
0.076	0.072	0.080	0.004

	<b>Reported Result</b>	
	0.076	

*Calibration and control data are stored centrally.*

Issued: 12/30/2016

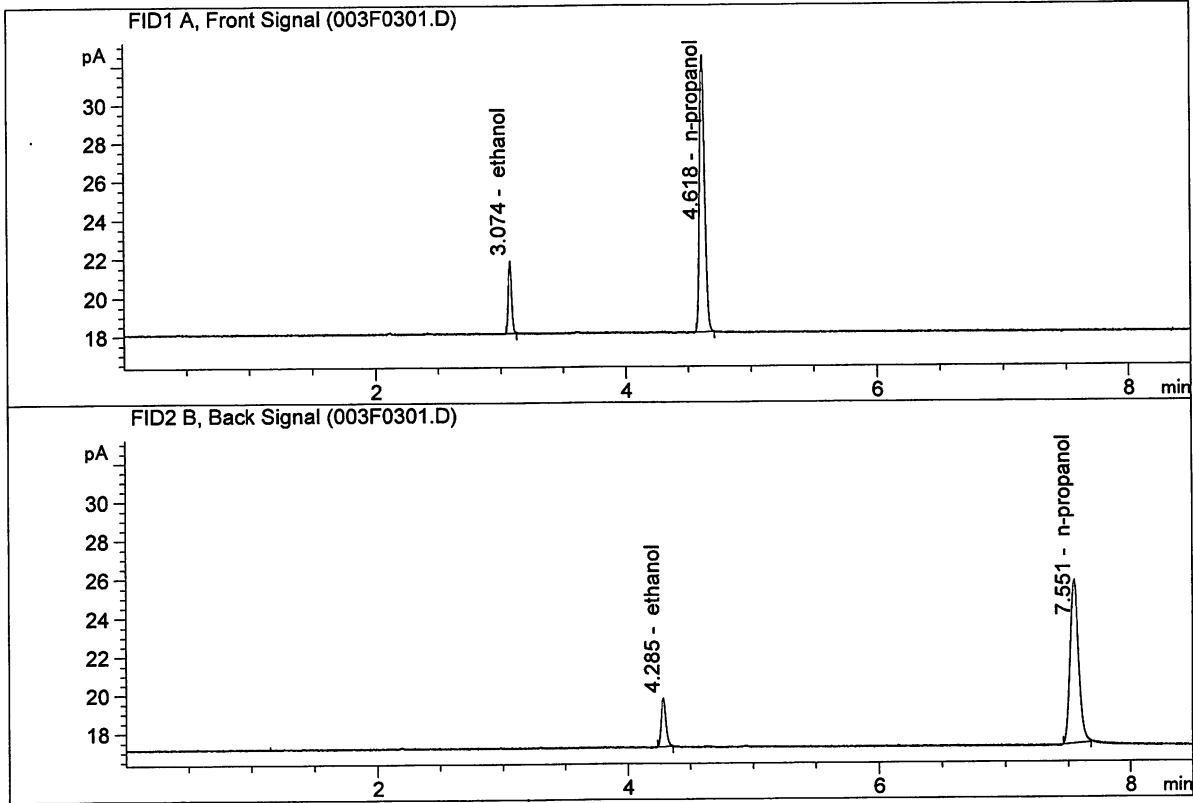
Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A  
 Laboratory : Meridian  
 Injection Date : Aug 16, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167

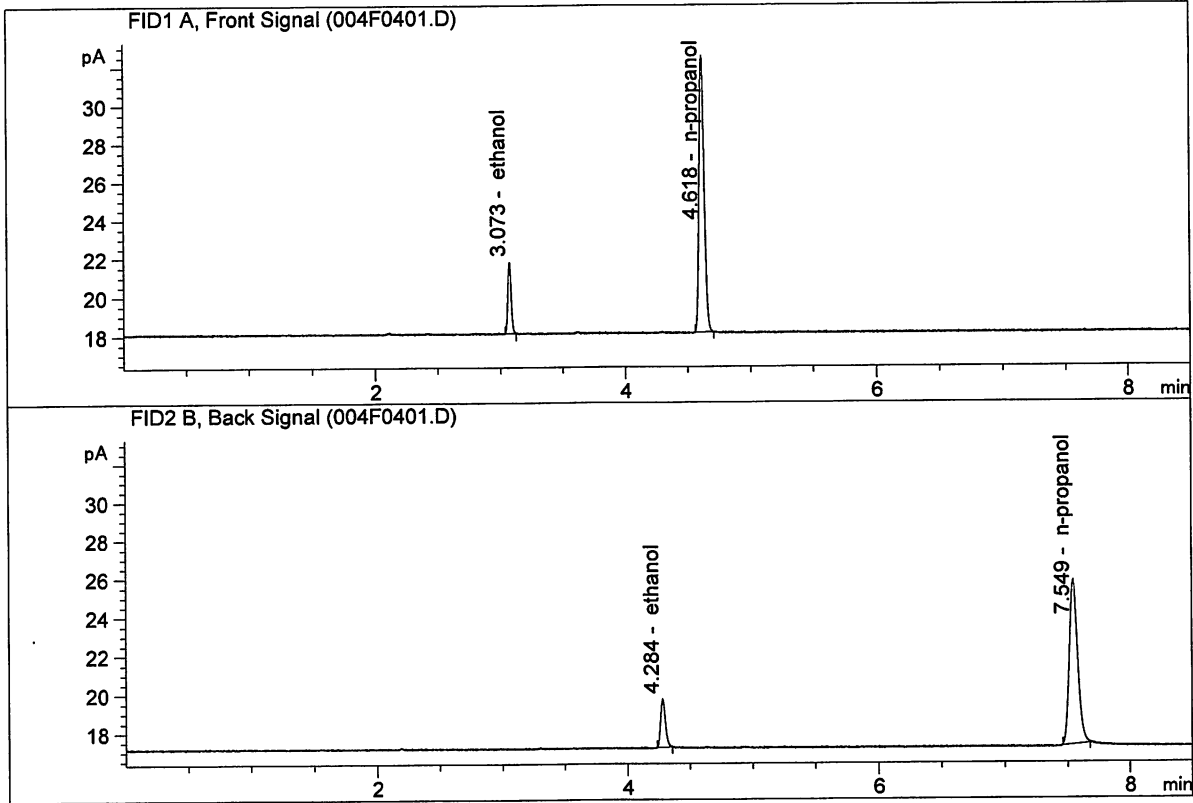


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.78316	0.0778	g/100cc
2.	Ethanol	Column 2:	6.85778	0.0755	g/100cc
3.	n-Propanol	Column 1:	40.69276	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.00201	1.0000	g/100cc

du

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B  
 Laboratory : Meridian  
 Injection Date : Aug 16, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.76160	0.0771	g/100cc
2.	Ethanol	Column 2:	6.83574	0.0748	g/100cc
3.	n-Propanol	Column 1:	40.94026	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.21152	1.0000	g/100cc

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## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN10281510

Analysis Date(s): 16 Aug 2017

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0791	0.0768	0.0023	0.0779	0.0784	
(g/100cc)	0.0803	0.0774	0.0029	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:  
MD96BC1382/MD94AM10010

### Reporting of Results

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

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

	<b>Reported Result</b>	
	0.078	

*Calibration and control data are stored centrally.*

Issued: 12/30/2016

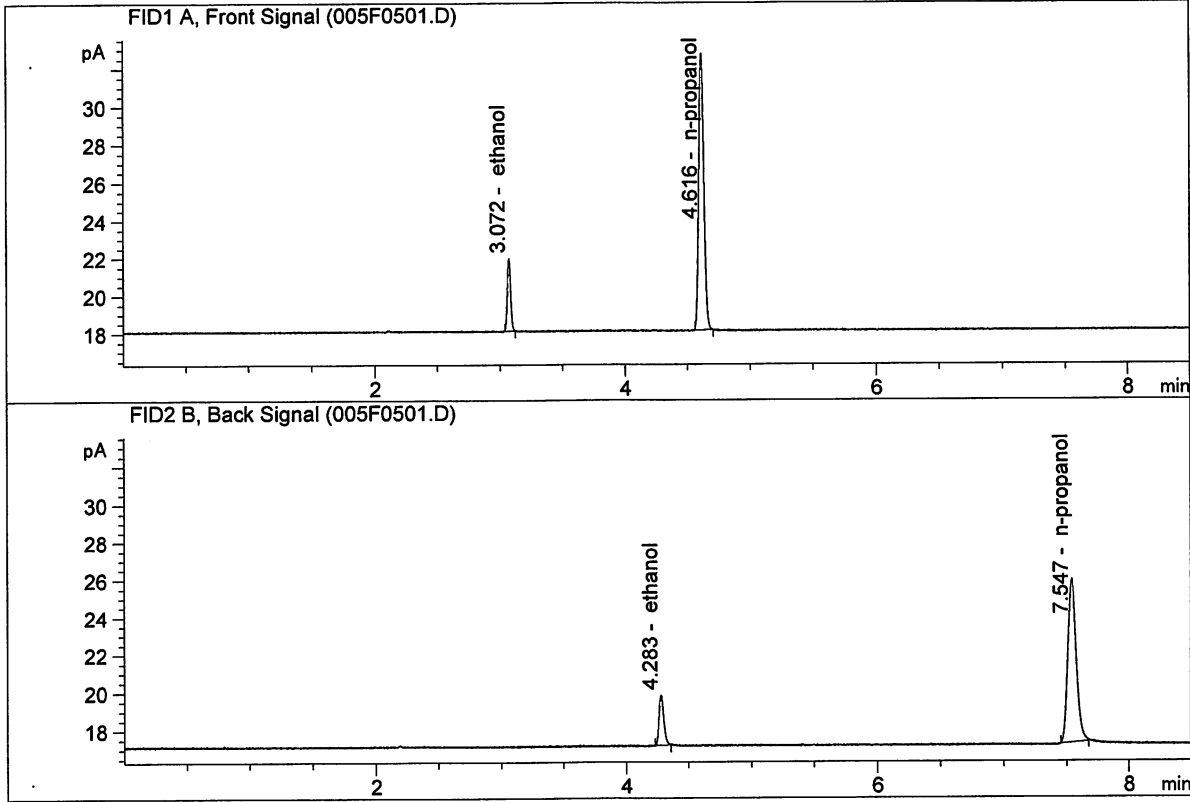
Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

JU

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-A  
 Laboratory : Meridian  
 Injection Date : Aug 16, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167

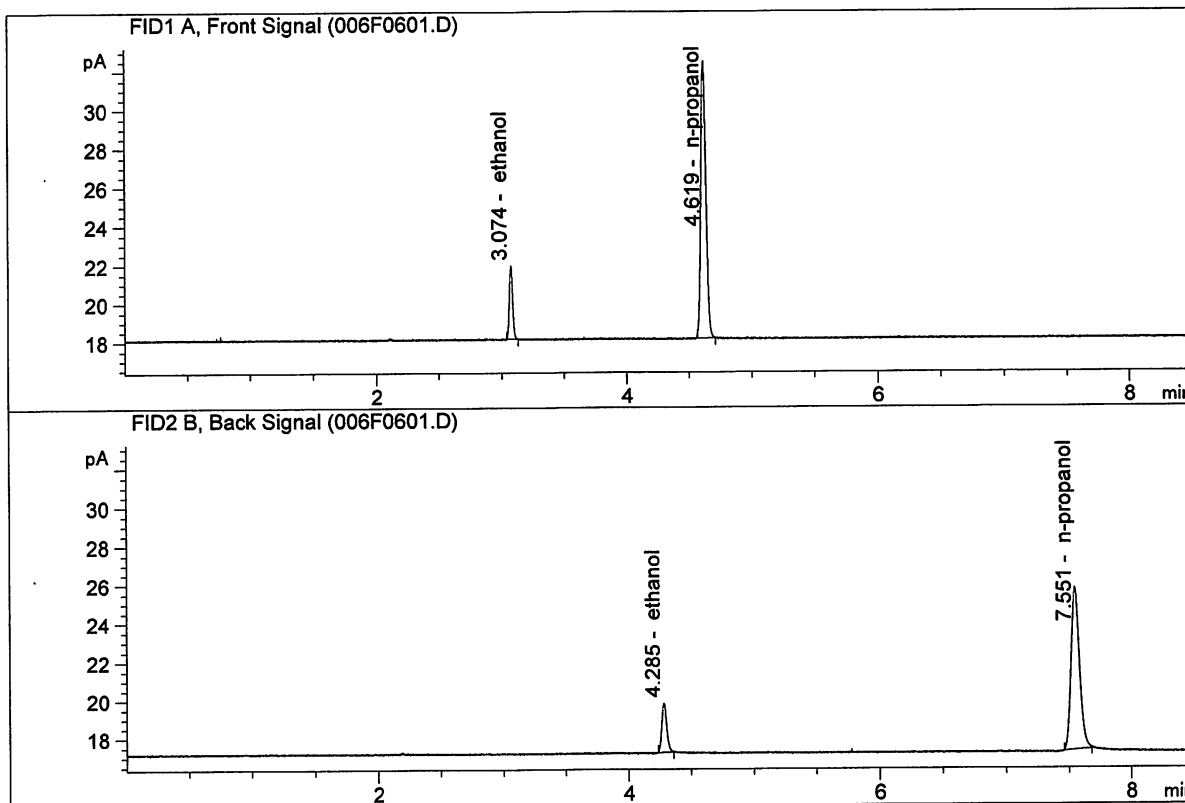


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.04603	0.0791	g/100cc
2.	Ethanol	Column 2:	7.12474	0.0768	g/100cc
3.	n-Propanol	Column 1:	41.56137	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.87716	1.0000	g/100cc

Je

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-B  
 Laboratory : Meridian  
 Injection Date : Aug 16, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.02203	0.0803	g/100cc
2.	Ethanol	Column 2:	7.04804	0.0774	g/100cc
3.	n-Propanol	Column 1:	40.77857	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.08677	1.0000	g/100cc

dc

## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1

Analysis Date(s): 16 Aug 2017

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2013	0.1987	0.0026	0.2000	0.2001	
(g/100cc)	0.2012	0.1992	0.0020	0.2002		

### 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
0.200	0.190	0.210	0.010

	<b>Reported Result</b>	
	0.200	

*Calibration and control data are stored centrally.*

Issued: 12/30/2016

Volatiles BAC Calculation Spreadsheet Rev 4

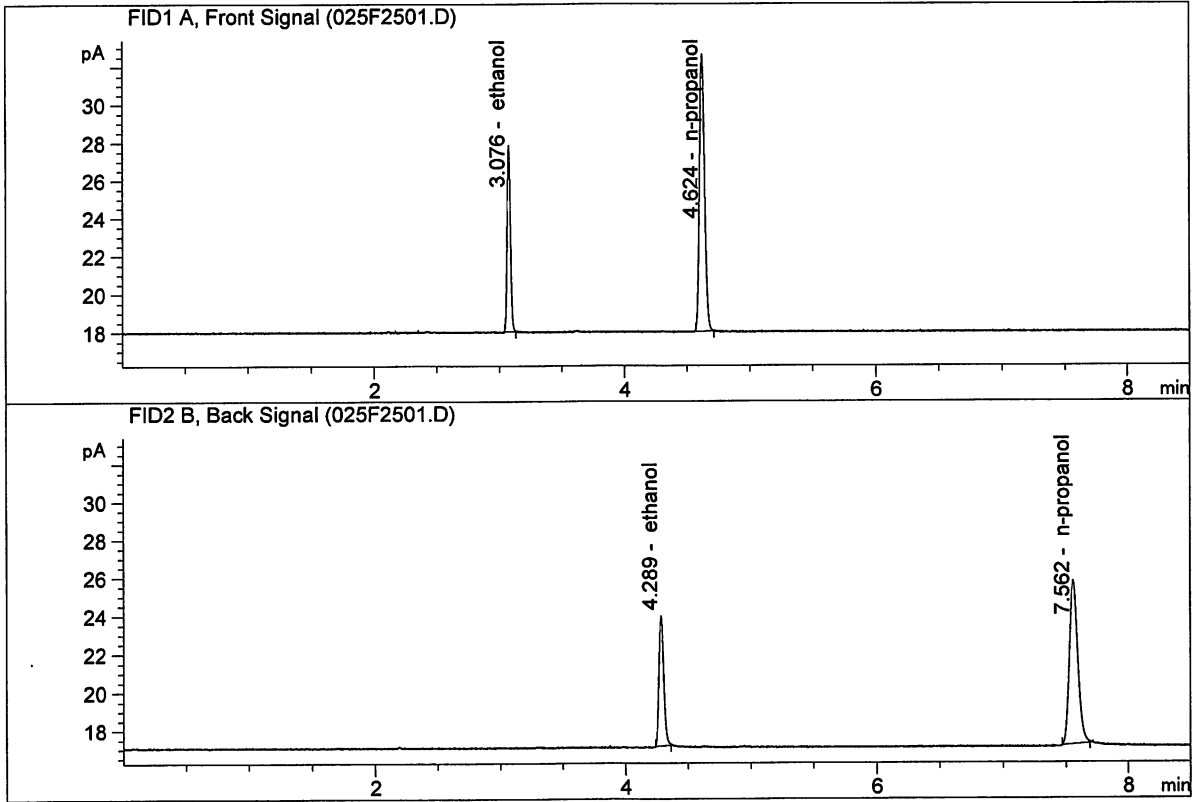
Issuing Authority: Quality Manager

JC



ISP Forensic Services Blood Alcohol Report

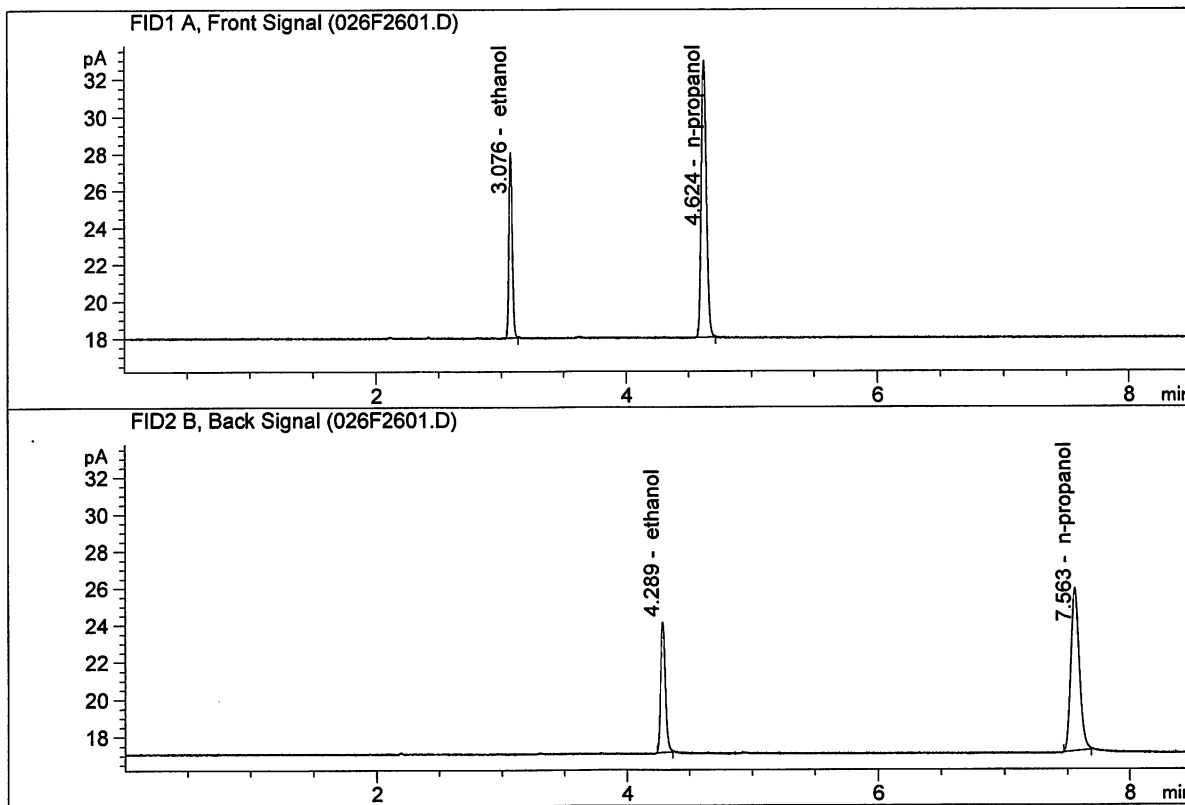
Sample Name : QC2-1-A  
 Laboratory : Meridian  
 Injection Date : Aug 16, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.93413	0.2013	g/100cc
2.	Ethanol	Column 2:	18.35849	0.1987	g/100cc
3.	n-Propanol	Column 1:	41.56799	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.68242	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B  
 Laboratory : Meridian  
 Injection Date : Aug 16, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.30738	0.2012	g/100cc
2.	Ethanol	Column 2:	18.79442	0.1992	g/100cc
3.	n-Propanol	Column 1:	42.44234	1.0000	g/100cc
4.	n-Propanol	Column 2:	42.57098	1.0000	g/100cc

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## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2

Analysis Date(s): 17 Aug 2017

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0801	0.0778	0.0023	0.0789	0.0783	
(g/100cc)	0.0790	0.0765	0.0025	0.0777		

### 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
0.078	0.074	0.082	0.004

	<b>Reported Result</b>	
	0.078	

*Calibration and control data are stored centrally.*

Issued: 12/30/2016

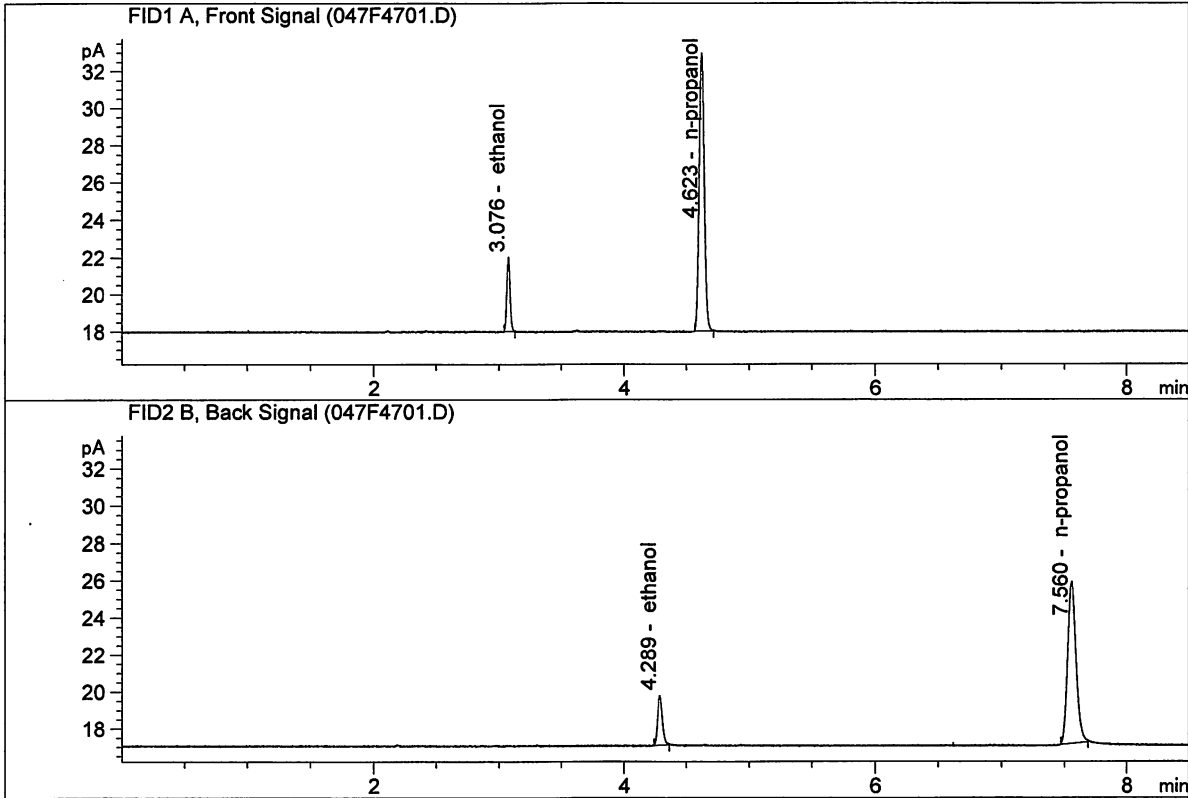
Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

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ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-A  
 Laboratory : Meridian  
 Injection Date : Aug 17, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167

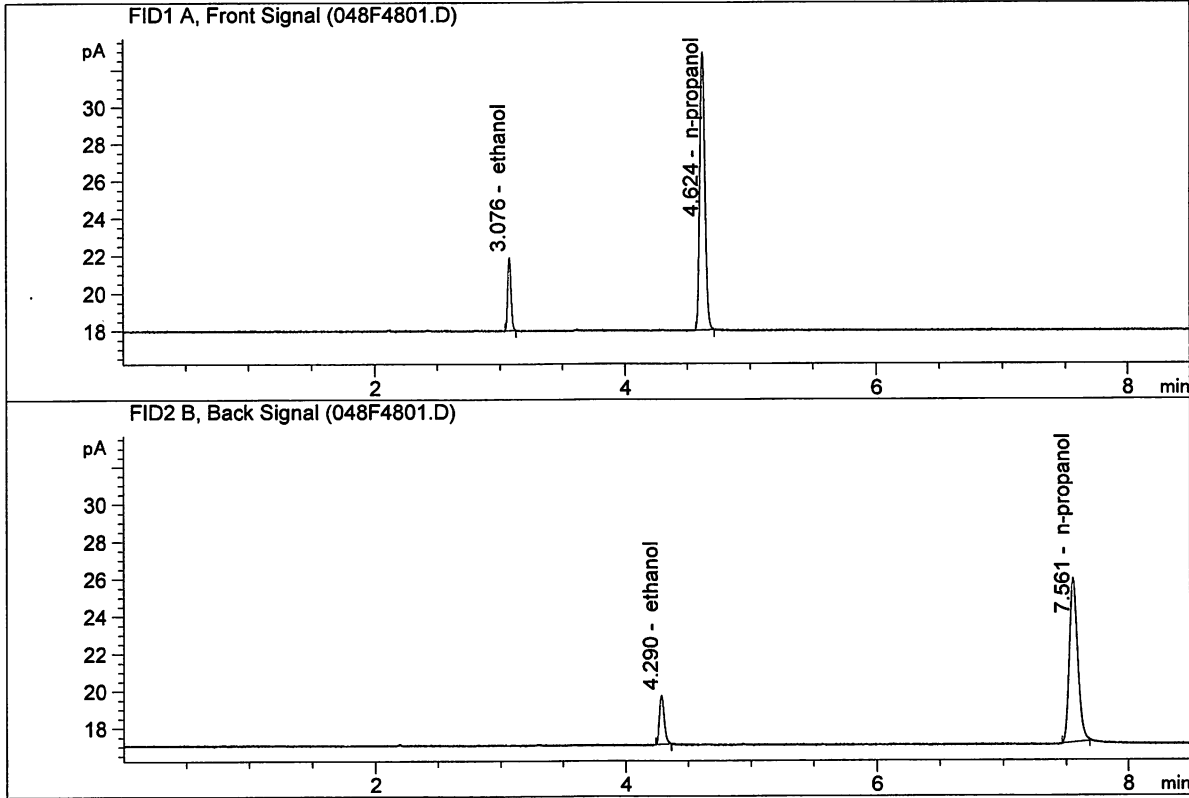


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.28714	0.0801	g/100cc
2.	Ethanol	Column 2:	7.32287	0.0778	g/100cc
3.	n-Propanol	Column 1:	42.43391	1.0000	g/100cc
4.	n-Propanol	Column 2:	42.45308	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B  
 Laboratory : Meridian  
 Injection Date : Aug 17, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.18567	0.0790	g/100cc
2.	Ethanol	Column 2:	7.22098	0.0765	g/100cc
3.	n-Propanol	Column 1:	42.42921	1.0000	g/100cc
4.	n-Propanol	Column 2:	42.56186	1.0000	g/100cc

86

## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-2

Analysis Date(s): 17 Aug 2017

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2096	0.2068	0.0028	0.2082	0.2090	
(g/100cc)	0.2106	0.2092	0.0014	0.2099		

**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
0.209	0.198	0.220	0.011

	<b>Reported Result</b>	
	0.209	

*Calibration and control data are stored centrally.*

Issued: 12/30/2016

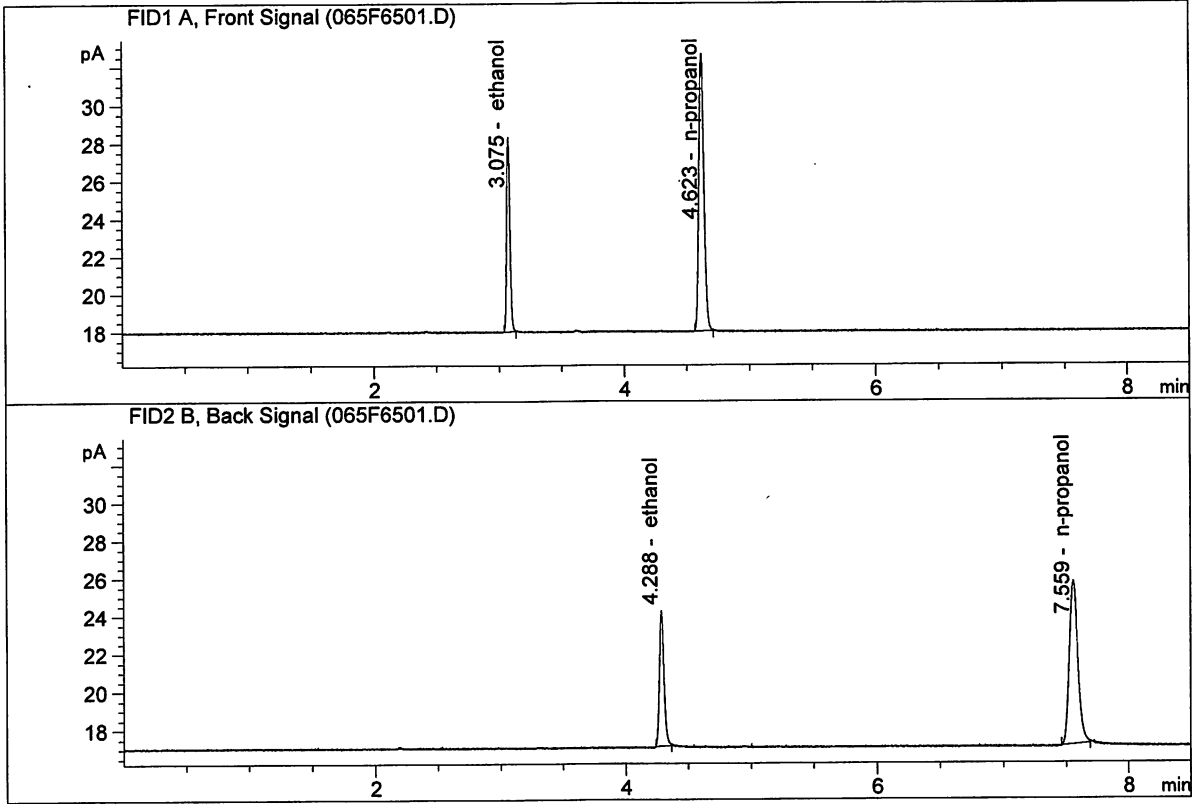
Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-A  
 Laboratory : Meridian  
 Injection Date : Aug 17, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167

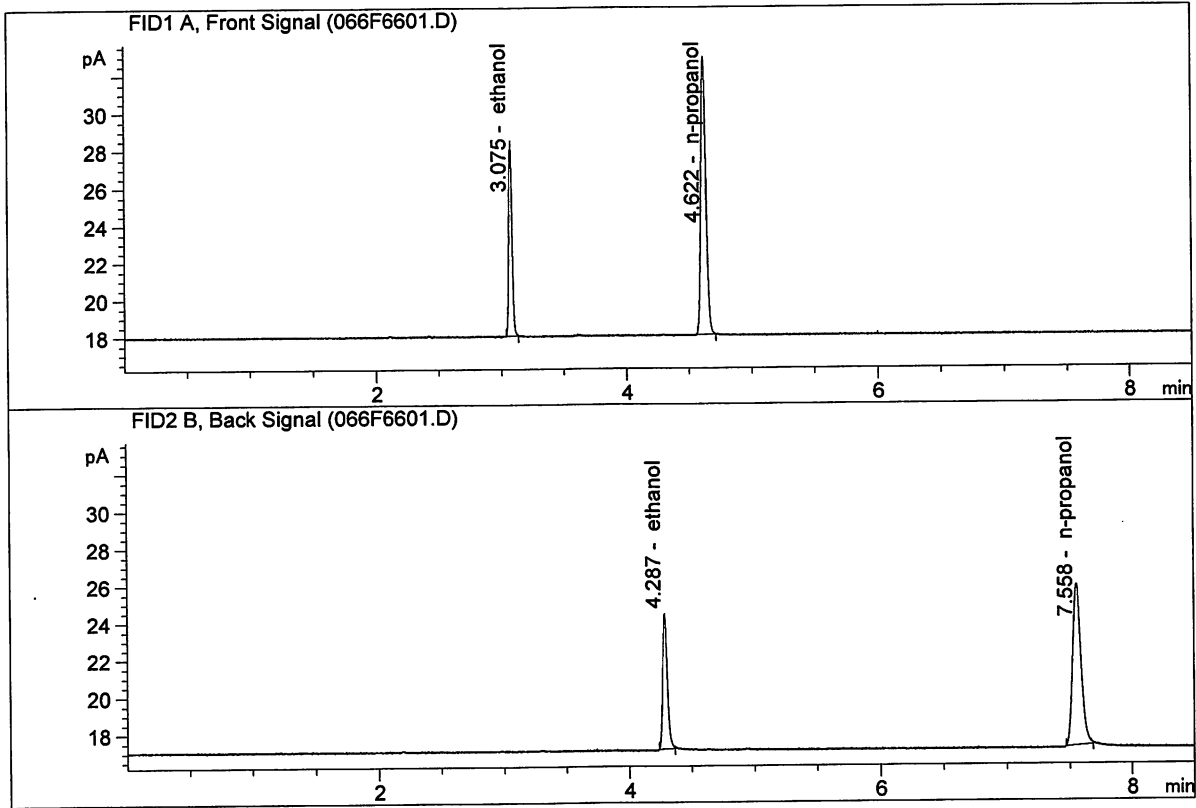


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.63466	0.2096	g/100cc
2.	Ethanol	Column 2:	19.10791	0.2068	g/100cc
3.	n-Propanol	Column 1:	41.48367	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.68155	1.0000	g/100cc

JK

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-B  
 Laboratory : Meridian  
 Injection Date : Aug 17, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



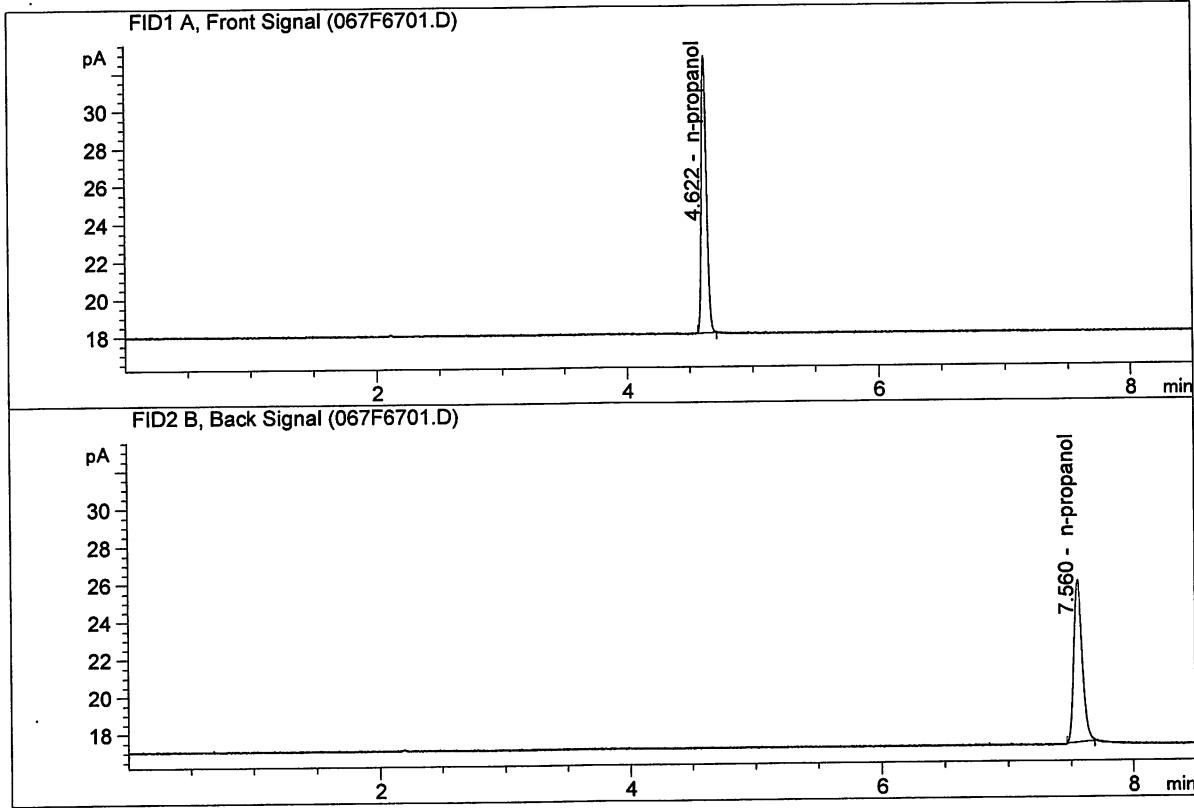
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.00815	0.2106	g/100cc
2.	Ethanol	Column 2:	19.46255	0.2092	g/100cc
3.	n-Propanol	Column 1:	42.10086	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.98222	1.0000	g/100cc

06



ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK  
 Laboratory : Meridian  
 Injection Date : Aug 17, 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:	41.76562	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.75360	1.0000	g/100cc

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

Sequence table: C:\Chem32\1\Data\08-16-17\_SAMPLES\08-16-17\_SAMPLES 2017-08-16 17-04-25\08-16-17\_SAMPLES.S  
 Data directory path: C:\Chem32\1\Data\08-16-17\_SAMPLES\08-16-17\_SAMPLES 2017-08-16 17-04-25\  
 Logbook: C:\Chem32\1\Data\08-16-17\_SAMPLES\08-16-17\_SAMPLES 2017-08-16 17-04-25\08-16-17\_SAMPLES.LOG  
 Sequence start: 8/16/2017 5:19:13 PM  
 Sequence Operator: SYSTEM  
 Operator: SYSTEM  
 Method file name: C:\Chem32\1\Data\08-16-17\_SAMPLES\08-16-17\_SAMPLES 2017-08-16 17-04-25\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	M2017-3572-1-A	-	1.0000	007F0701.D		4
8	8	1	M2017-3572-1-B	-	1.0000	008F0801.D		4
9	9	1	M2017-3572-2-A	-	1.0000	009F0901.D		4
10	10	1	M2017-3572-2-B	-	1.0000	010F1001.D		4
11	11	1	M2017-3580-1-A	-	1.0000	011F1101.D		2
12	12	1	M2017-3580-1-B	-	1.0000	012F1201.D		2
13	13	1	M2017-3611-1-A	-	1.0000	013F1301.D		2
14	14	1	M2017-3611-1-B	-	1.0000	014F1401.D		2
15	15	1	M2017-3612-1-A	-	1.0000	015F1501.D		2
16	16	1	M2017-3612-1-B	-	1.0000	016F1601.D		2
17	17	1	M2017-3628-1-A	-	1.0000	017F1701.D		4
18	18	1	M2017-3628-1-B	-	1.0000	018F1801.D		4
19	19	1	M2017-3632-1-A	-	1.0000	019F1901.D		2
20	20	1	M2017-3632-1-B	-	1.0000	020F2001.D		2
21	21	1	M2017-3632-2-A	-	1.0000	021F2101.D		2
22	22	1	M2017-3632-2-B	-	1.0000	022F2201.D		2
23	23	1	M2017-3651-1-A	-	1.0000	023F2301.D		4
24	24	1	M2017-3651-1-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	M2017-3652-1-A	-	1.0000	027F2701.D		4
28	28	1	M2017-3652-1-B	-	1.0000	028F2801.D		4
29	29	1	M2017-3653-1-A	-	1.0000	029F2901.D		4
30	30	1	M2017-3653-1-B	-	1.0000	030F3001.D		4
31	31	1	M2017-3654-1-A	-	1.0000	031F3101.D		2
32	32	1	M2017-3654-1-B	-	1.0000	032F3201.D		2
33	33	1	M2017-3655-1-A	-	1.0000	033F3301.D		4
34	34	1	M2017-3655-1-B	-	1.0000	034F3401.D		4
35	35	1	M2017-3672-1-A	-	1.0000	035F3501.D		4
36	36	1	M2017-3672-1-B	-	1.0000	036F3601.D		4
37	37	1	M2017-3697-1-A	-	1.0000	037F3701.D		4
38	38	1	M2017-3697-1-B	-	1.0000	038F3801.D		4
39	39	1	M2017-3699-1-A	-	1.0000	039F3901.D		4
40	40	1	M2017-3699-1-B	-	1.0000	040F4001.D		4
41	41	1	M2017-3714-1-A	-	1.0000	041F4101.D		4
42	42	1	M2017-3714-1-B	-	1.0000	042F4201.D		4
43	43	1	M2017-3719-1-A	-	1.0000	043F4301.D		2

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Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	# Cmp
44	44	1	M2017-3719-1-B	-	1.0000	044F4401.D		2
45	45	1	M2017-3727-1-A	-	1.0000	045F4501.D		4
46	46	1	M2017-3727-1-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	M2017-3728-1-A	-	1.0000	049F4901.D		4
50	50	1	M2017-3728-1-B	-	1.0000	050F5001.D		4
51	51	1	M2017-3729-1-A	-	1.0000	051F5101.D		4
52	52	1	M2017-3729-1-B	-	1.0000	052F5201.D		4
53	53	1	M2017-3730-1-A	-	1.0000	053F5301.D		4
54	54	1	M2017-3730-1-B	-	1.0000	054F5401.D		4
55	55	1	M2017-3737-1-A	-	1.0000	055F5501.D		4
56	56	1	M2017-3737-1-B	-	1.0000	056F5601.D		4
57	57	1	P2017-1678-2-A	-	1.0000	057F5701.D		2
58	58	1	P2017-1678-2-B	-	1.0000	058F5801.D		2
59	59	1	P2017-1787-2-A	-	1.0000	059F5901.D		4
60	60	1	P2017-1787-2-B	-	1.0000	060F6001.D		4
61	61	1	P2017-1829-3-A	-	1.0000	061F6101.D		2
62	62	1	P2017-1829-3-B	-	1.0000	062F6201.D		2
63	63	1	P2017-1829-4-A	-	1.0000	063F6301.D		2
64	64	1	P2017-1829-4-B	-	1.0000	064F6401.D		2
65	65	1	QC2-2-A	-	1.0000	065F6501.D		4
66	66	1	QC2-2-B	-	1.0000	066F6601.D		4
67	67	1	INTERNAL STD BLK	-	1.0000	067F6701.D		2

Method file name: C:\Chem32\1\Data\08-16-17\_SAMPLES\08-16-17\_SAMPLES 2017-08-16 17-04-25  
\SHUTDOWN.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	# Cmp
68	68	1	EMPTY	-	1.0000	068F6801.D		0