Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

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

Volatiles Quality Assurance Controls

Run Date(s): 3/1/18 – 3/2/18 NB

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-18	1407031	0.0780	0.0702 - 0.0858	0.0783 g/100cc
					0.0827 g/100cc
					g/100cc
Level 2	Jul-18	1407032	0.2020	0.1818 - 0.2222	0.2013 g/100cc
					0.2090 g/100cc
					g/100cc
Multi-Component mixture:		**Exp date: Oct 2019**	**Lot #**	FN09231404	OK
Curve Fit:			**Column 1**	0.99990 **Column2**	0.99993

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	0.0486	0.0504	0.0018	0.0495
0.080			0.080	0.072 - 0.088			0	#DIV/0!
0.100	Jun-20	FN06181501	0.100	0.090 - 0.110	0.1011	0.1011	0	0.1011
0.200	Dec-19	FN12011401	0.200	0.180 - 0.220	0.1980	0.1966	0.0014	0.1973
0.300	Jun-20	FN06051501	0.300	0.270 - 0.330	0.3039	0.3021	0.0018	0.303
0.400			0.400	0.360 - 0.440			0	#DIV/0!
0.500	Aug-19	FN07031402	0.500	0.450 - 0.550	0.4984	0.4998	0.0014	0.4991

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.

Issued: 4/22/2015

Volatiles QA/QC data spreadsheet Rev 5

Issuing Authority: Quality Manager

NB

The cases/QC/QC in this batch were extracted using Hamilton Microlab 600 Series Liquid Processor/Dilutor Serial Number: ML600HC11378. The "VOLATILES DETERMINATION CASEFILE WORKSHEET" for all samples need to reflect this serial number and NOT MD96BC1382/MD94AM10010.

Melissa (Nikka) Bradley

Forensic Scientist

NB 3/6/18

Worklist: 2227

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2018-0902	1	108184	Alcohol Analysis
M2018-0904	1	108222	Alcohol Analysis
M2018-0905	1	108223	Alcohol Analysis
M2018-0915	1	108295	Alcohol Analysis
M2018-0916	1	108298	Alcohol Analysis
M2018-0916	2	108302	Alcohol Analysis
M2018-0917	1	108306	Alcohol Analysis
M2018-0923	2	108373	Alcohol Analysis
M2018-0942	1	108400	Alcohol Analysis
M2018-0943	1	108401	Alcohol Analysis
M2018-0945	1	108418	Alcohol Analysis
M2018-0968	1	108547	Alcohol Analysis
M2018-0969	1	108548	Alcohol Analysis
M2018-0975	1	108572	BATS Proficiency Test
M2018-0975	2	108573	BATS Proficiency Test
M2018-0975	3	108574	BATS Proficiency Test
M2018-0975	4	108575	BATS Proficiency Test
M2018-0978	1	108649	Alcohol Analysis
M2018-0981	1	108682	Alcohol Analysis
M2018-0982	1	108686	Alcohol Analysis
M2018-0985	1	108693	Alcohol Analysis
P2018-0549	1	109027	Alcohol Analysis

NB

Calibration Table

General Calibration Setting

Calib. Data Modified : Thursday, March 01, 2018 2:44:05 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

NB

Method C:\CHEM32\1\METHODS\ALCOHOL.M

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	4.40412	1.13530e-2	No	No	1	ethanol
		2	1.00000e-1	9.25305	1.08072e-2				
		3	2.00000e-1	18.51192	1.08038e-2				
		4	3.00000e-1	28.27583	1.06098e-2				
		5	5.00000e-1	47.20053	1.05931e-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	4.35183	1.14894e-2	No	No	2	ethanol
		2	1.00000e-1	9.30841	1.07430e-2				
		3	2.00000e-1	18.98359	1.05354e-2				
		4	3.00000e-1	29.30584	1.02369e-2				
		5	5.00000e-1	49.56388	1.00880e-2				
4.308	1	1	1.00000	6.49940	1.53860e-1	No	No	1	acetone
4.620	1	1	1.00000	47.12877	2.12185e-2	No	Yes	1	n-propanol
		2	1.00000	46.44664	2.15301e-2				
		3	1.00000	46.97110	2.12897e-2				
		4	1.00000	46.56666	2.14746e-2				
		5	1.00000	47.26403	2.11577e-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	47.84230	2.09020e-2	No	Yes	2	n-propanol
		2	1.00000	46.98093	2.12852e-2				
		3	1.00000	47.47672	2.10630e-2				
		4	1.00000	47.06060	2.12492e-2				
		5	1.00000	47.64192	2.09899e-2				

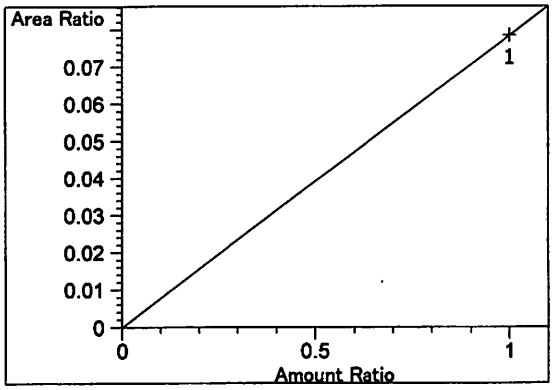
Peak Sum Table

No Entries in table

1 Warnings or Errors :

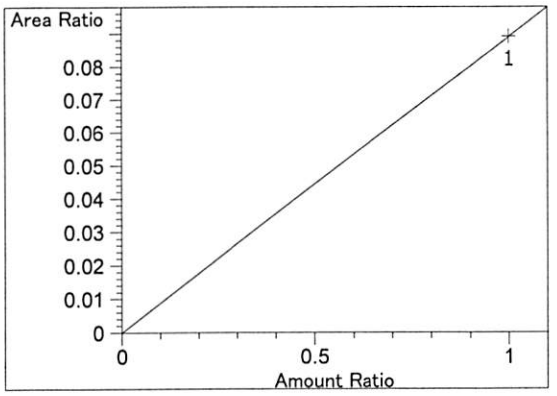
Warning : Curve requires more calibration points., (methanol)

Calibration Curves

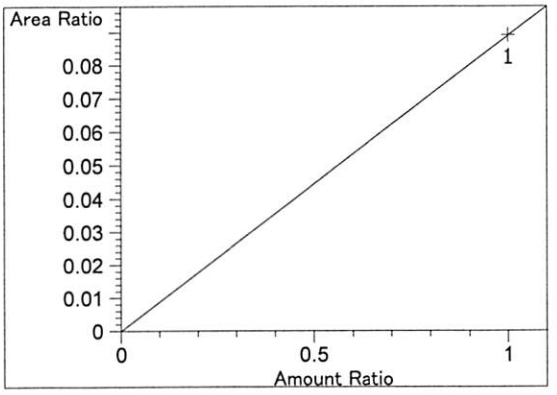


methanol at exp. RT: 2.586
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 7.84382e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio

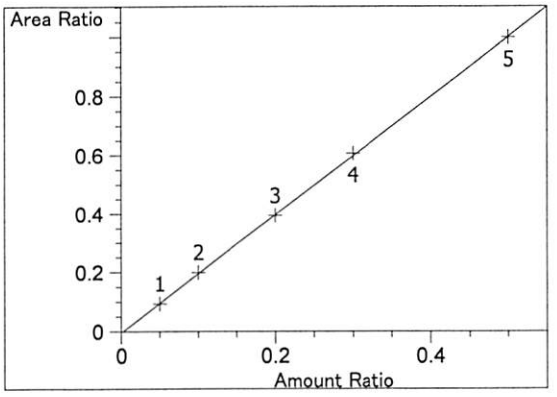
NB



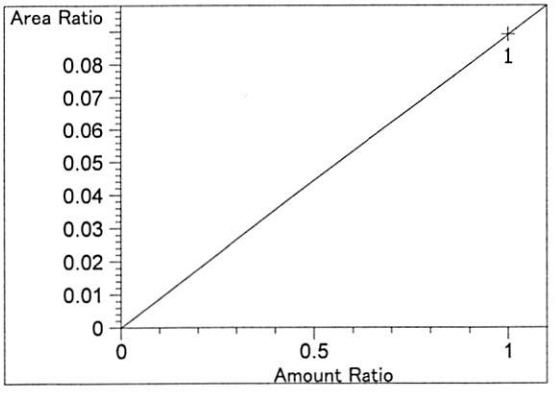
Acetaldehyde at exp. RT: 2.809
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.90635e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



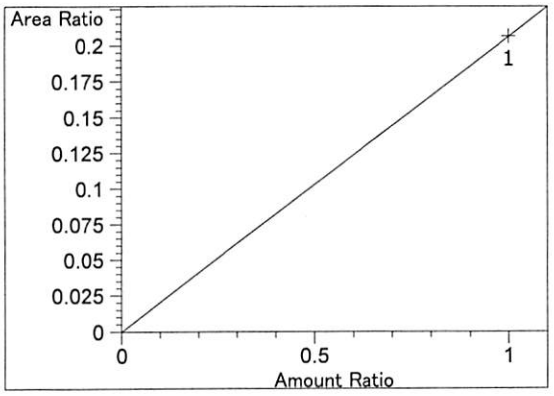
Acetaldehyde at exp. RT: 2.977
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.90635e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



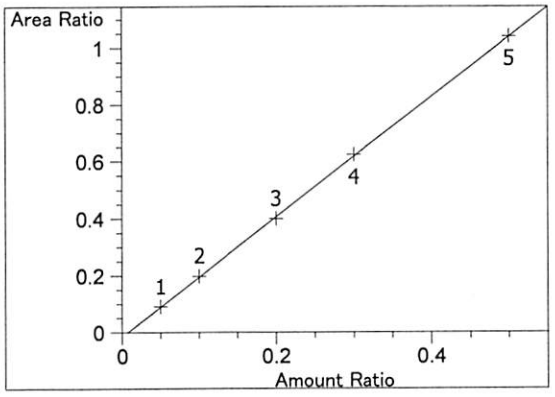
ethanol at exp. RT: 3.075
FID1 A, Front Signal
Correlation: 0.99990
Residual Std. Dev.: 0.00581
Formula: y = mx + b
m: 2.01250
b: -4.34417e-3
x: Amount Ratio
y: Area Ratio



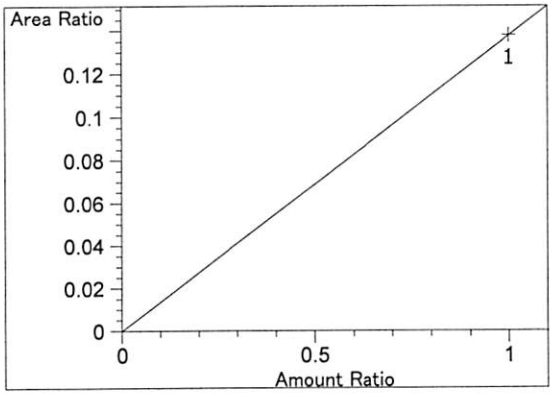
methanol at exp. RT: 3.388
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.90556e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



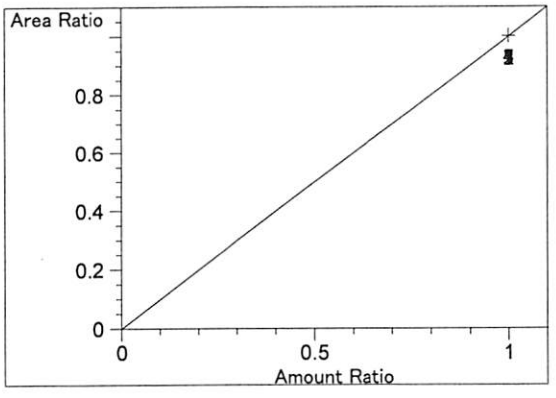
isopropyl alcohol at exp. RT: 3.628
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 2.06467e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



ethanol at exp. RT: 4.285
FID2 B, Back Signal
Correlation: 0.99993
Residual Std. Dev.: 0.00509
Formula: y = mx + b
m: 2.11217
b: -1.53959e-2
x: Amount Ratio
y: Area Ratio

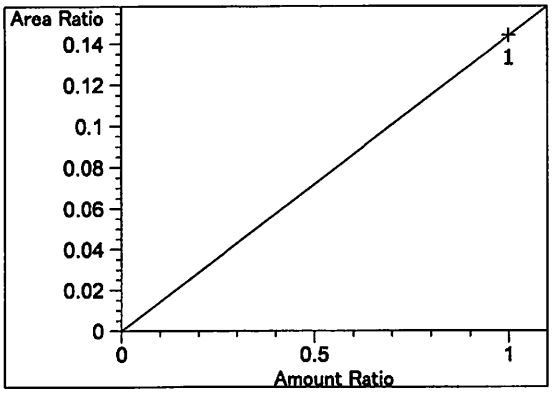


acetone at exp. RT: 4.308
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.37907e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

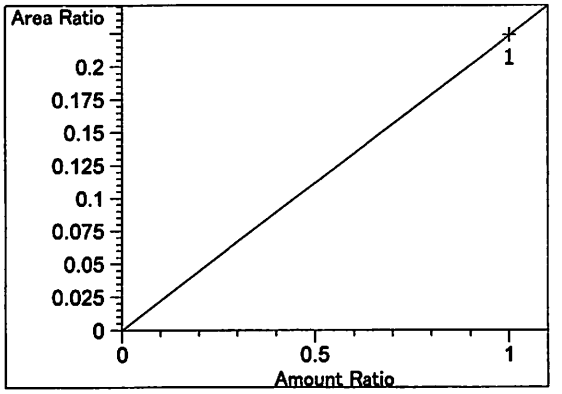


n-propanol at exp. RT: 4.620
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio

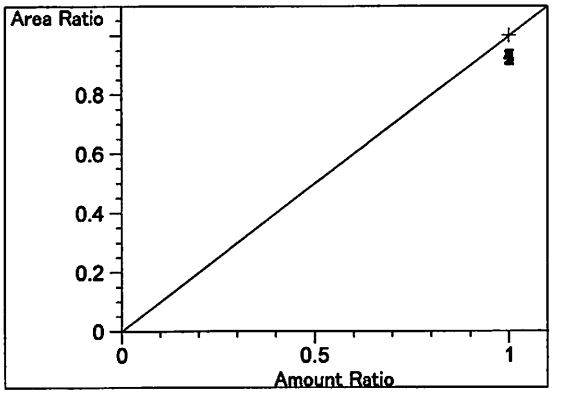
MB



acetone at exp. RT: 4.661
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.44078e-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: 2.23786e-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

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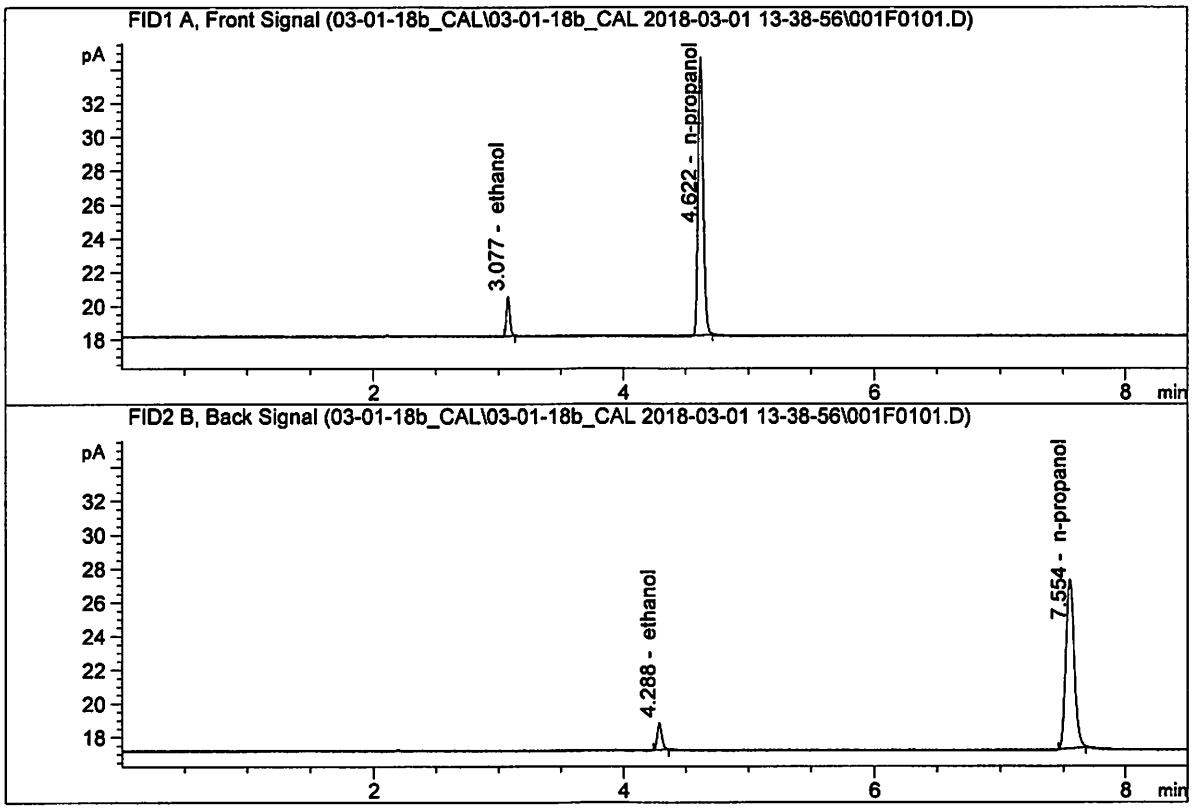
NB

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.050 FN06231406
Laboratory : Meridian
Injection Date : Mar 1, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

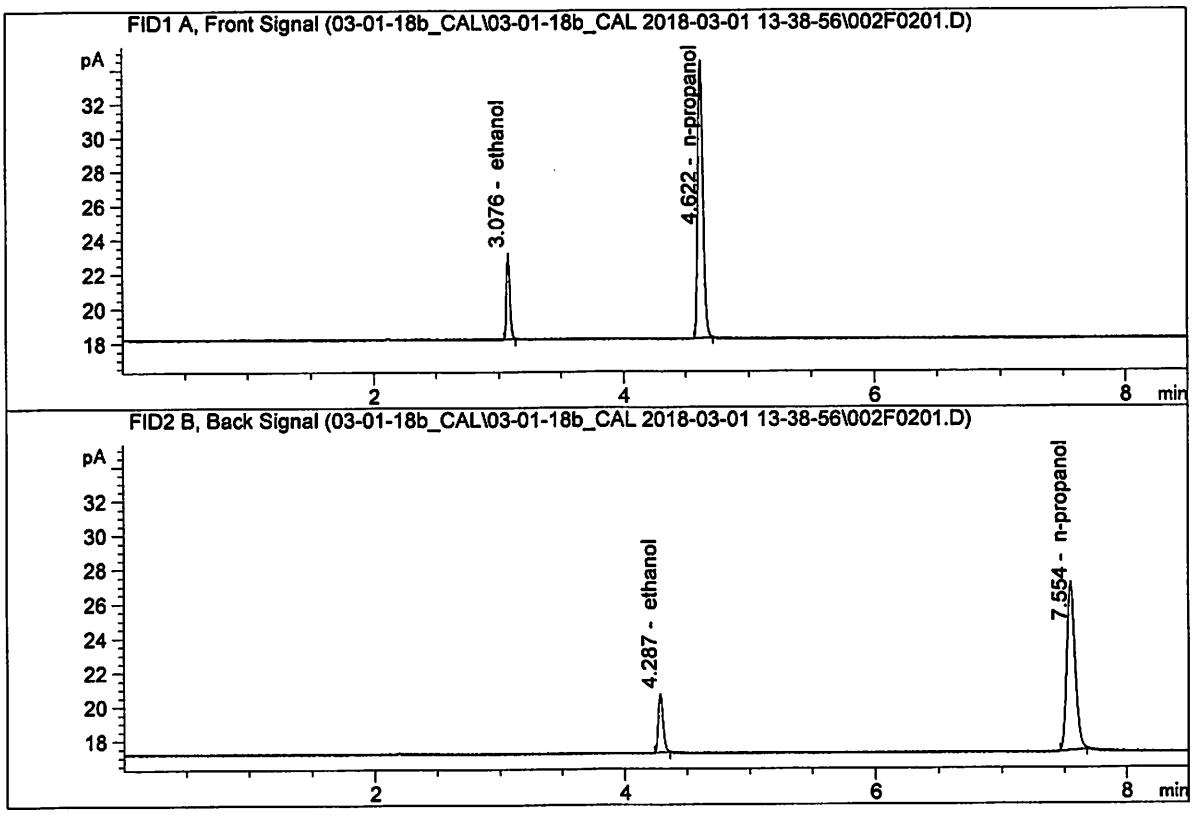


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	4.40412	0.0486	g/100cc
2.	Ethanol	Column 2:	4.35183	0.0504	g/100cc
3.	n-Propanol	Column 1:	47.12877	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.84230	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.100 FN06181501
Laboratory : Meridian
Injection Date : Mar 1, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

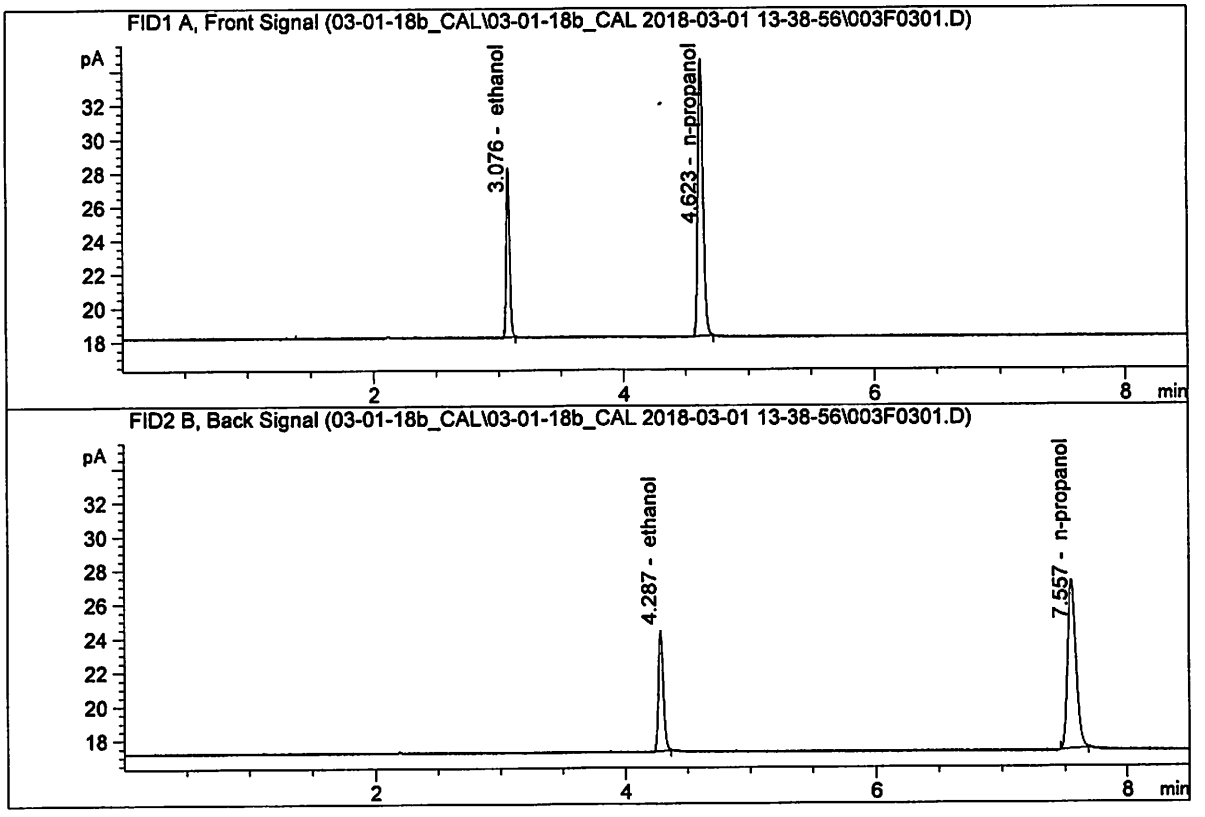


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	9.25305	0.1011	g/100cc
2.	Ethanol	Column 2:	9.30841	0.1011	g/100cc
3.	n-Propanol	Column 1:	46.44664	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.98093	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.200 FN12011401
Laboratory : Meridian
Injection Date : Mar 1, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

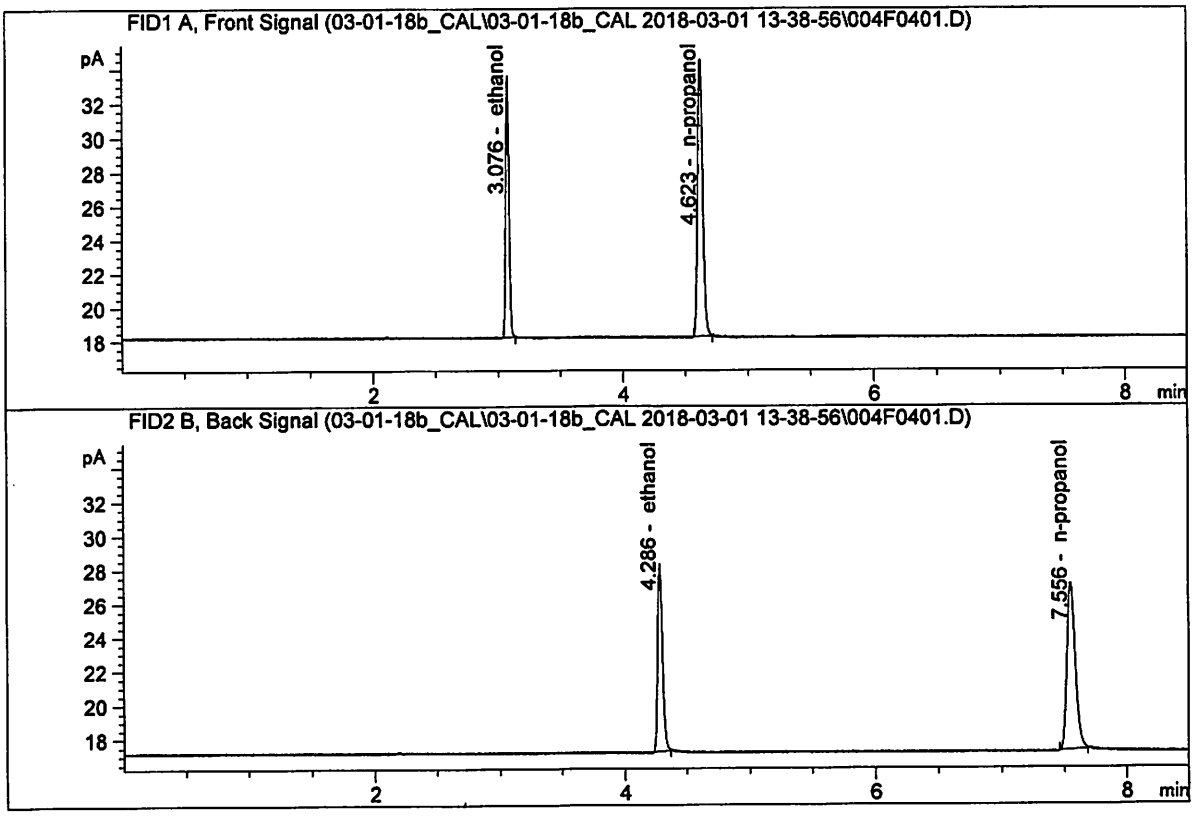


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.51192	0.1980	g/100cc
2.	Ethanol	Column 2:	18.98359	0.1966	g/100cc
3.	n-Propanol	Column 1:	46.97110	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.47672	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

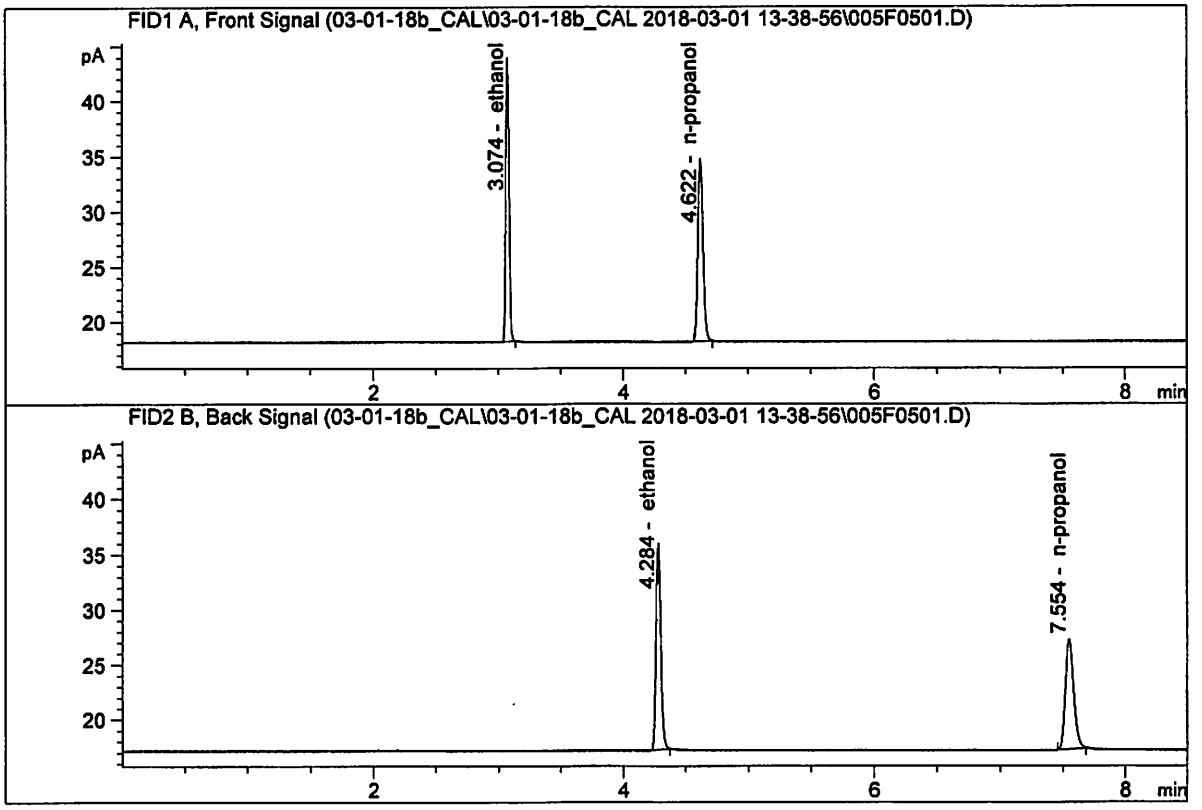
Sample Name : 0.300 FN06051501
Laboratory : Meridian
Injection Date : Mar 1, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	28.27583	0.3039	g/100cc
2.	Ethanol	Column 2:	29.30584	0.3021	g/100cc
3.	n-Propanol	Column 1:	46.56666	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.06060	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

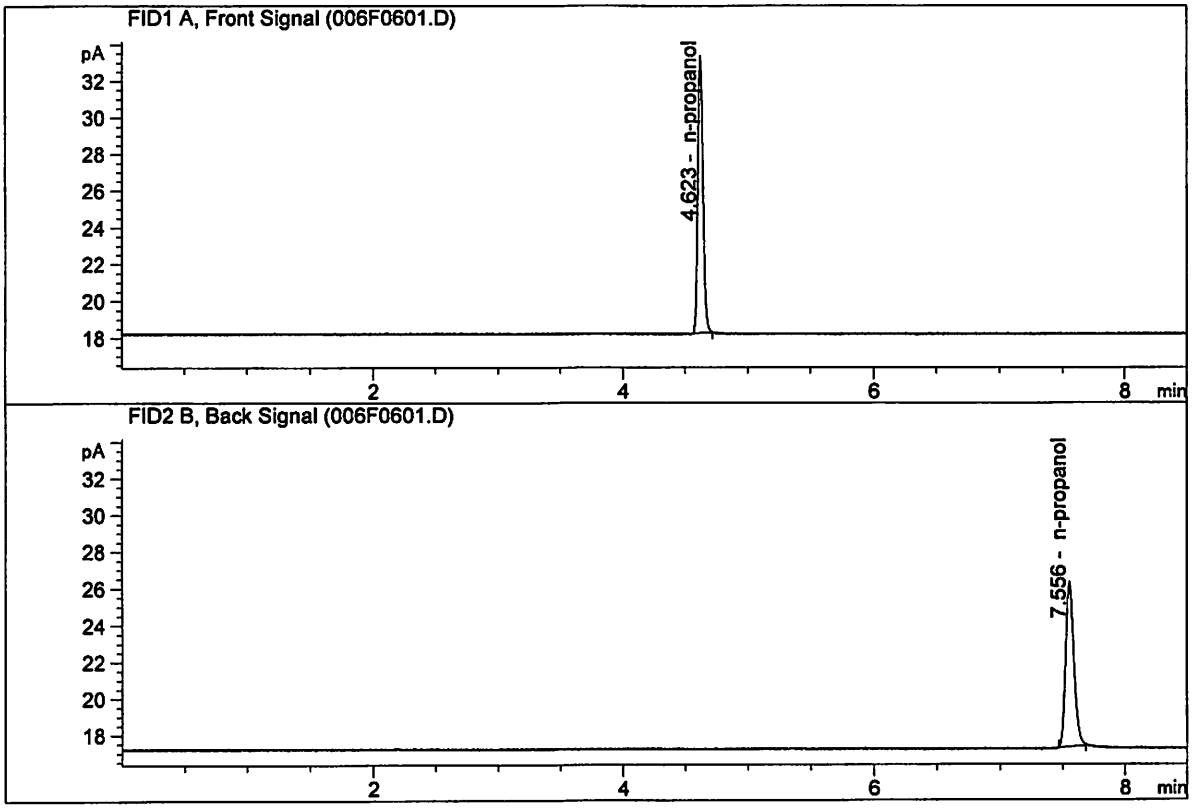
Sample Name : 0.500 FN07031402
Laboratory : Meridian
Injection Date : Mar 1, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	47.20053	0.4984	g/100cc
2.	Ethanol	Column 2:	49.56388	0.4998	g/100cc
3.	n-Propanol	Column 1:	47.26403	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.64192	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STANDARD BLANK
Laboratory : Meridian
Injection Date : Mar 1, 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:	43.10112	1.0000	g/100cc
4.	n-Propanol	Column 2:	43.23964	1.0000	g/100cc

Sequence File C:\Chem32\...a\03-01-18b_CAL\03-01-18b_CAL 2018-03-01 13-38-56\03-01-18b_CAL.S

Sample Summary

Sequence table:	C:\Chem32\1\Data\03-01-18b_CAL\03-01-18b_CAL 2018-03-01 13-38-56\03-01-18_CAL.S
Data directory path:	C:\Chem32\1\Data\03-01-18b_CAL\03-01-18b_CAL 2018-03-01 13-38-56\
Logbook:	C:\Chem32\1\Data\03-01-18b_CAL\03-01-18b_CAL 2018-03-01 13-38-56\03-01-18_CAL.LOG
Sequence start:	3/1/2018 1:53:33 PM
Sequence Operator:	SYSTEM
Operator:	SYSTEM
Method file name:	C:\Chem32\1\Data\03-01-18b_CAL\03-01-18b_CAL 2018-03-01 13-38-56\ALCOHOL.

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 FN06051501	-	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

Master Alcohol.m updated w/ this Calibration Curve

NB 3/1/18

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 01 Mar 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0773	0.0785	0.0012	0.0779	0.0783	
(g/100cc)	0.0782	0.0792	0.0010	0.0787		

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**

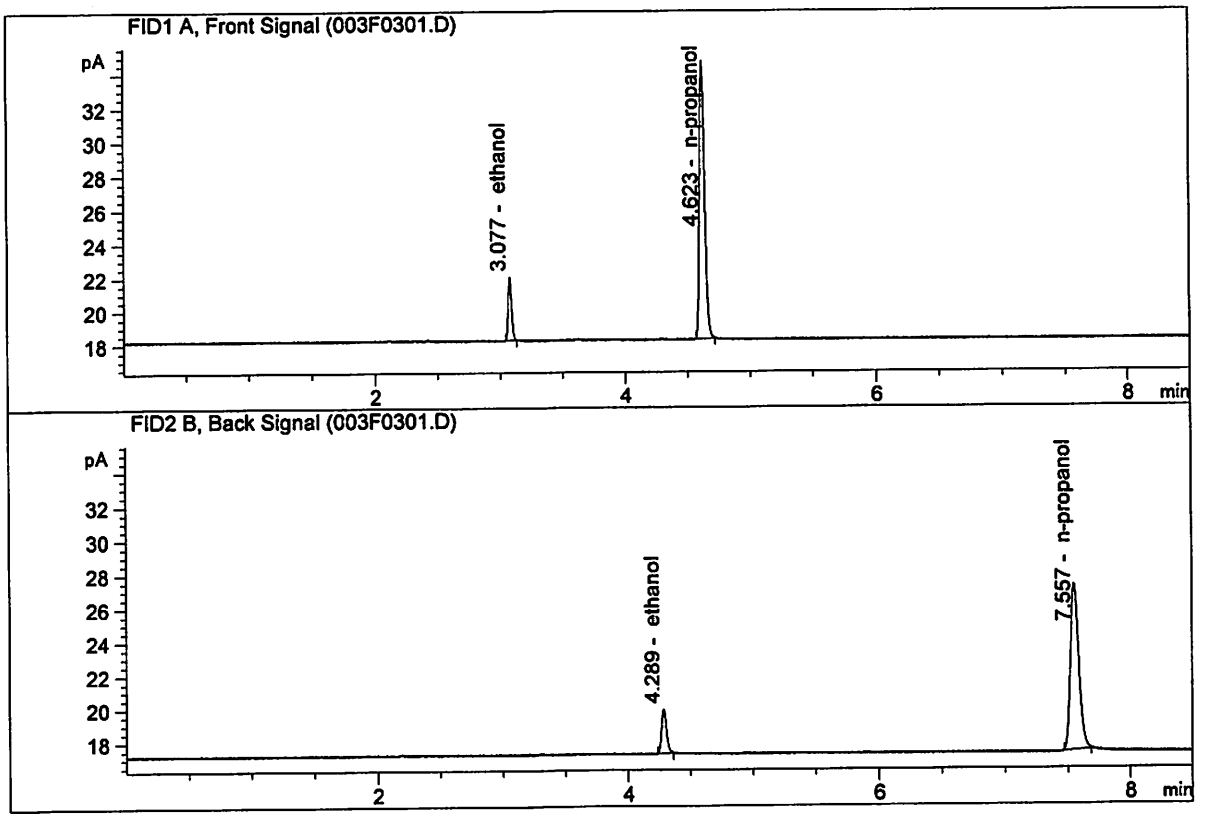
Reported Result

0.078

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

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

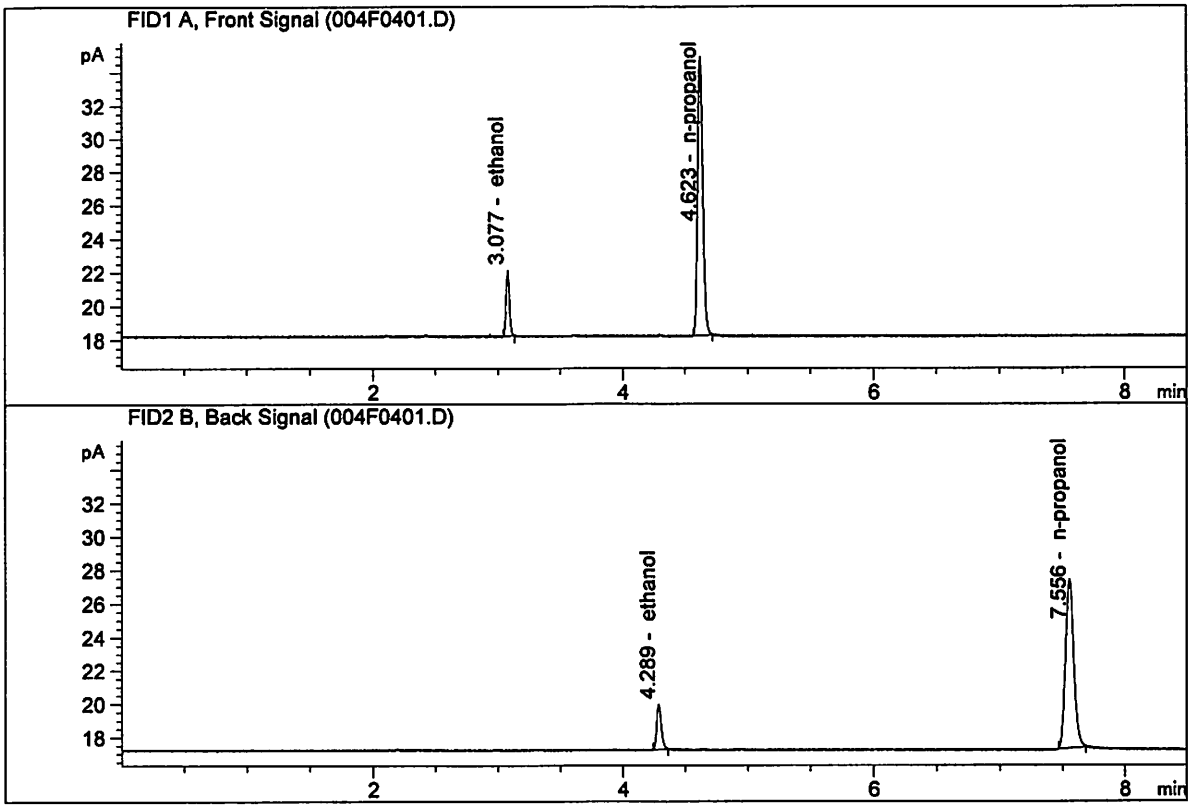


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.10770	0.0773	g/100cc
2.	Ethanol	Column 2:	7.13604	0.0785	g/100cc
3.	n-Propanol	Column 1:	47.02999	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.44536	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

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



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.31603	0.0782	g/100cc
2.	Ethanol	Column 2:	7.33889	0.0792	g/100cc
3.	n-Propanol	Column 1:	47.80820	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.28485	1.0000	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Analysis Date(s): 01 Mar 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0825	0.0836	0.0011	0.0830	0.0827	
(g/100cc)	0.0820	0.0828	0.0008	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**

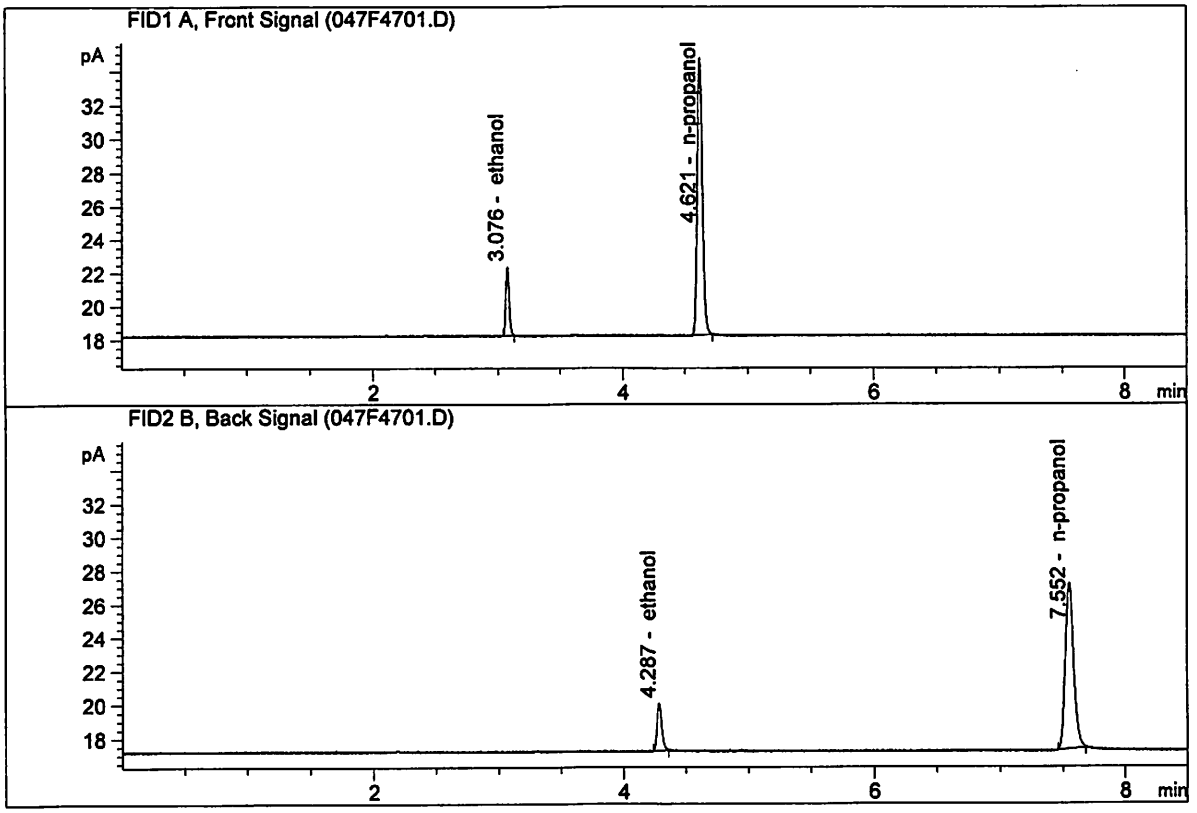
Reported Result

0.082

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : Mar 1, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

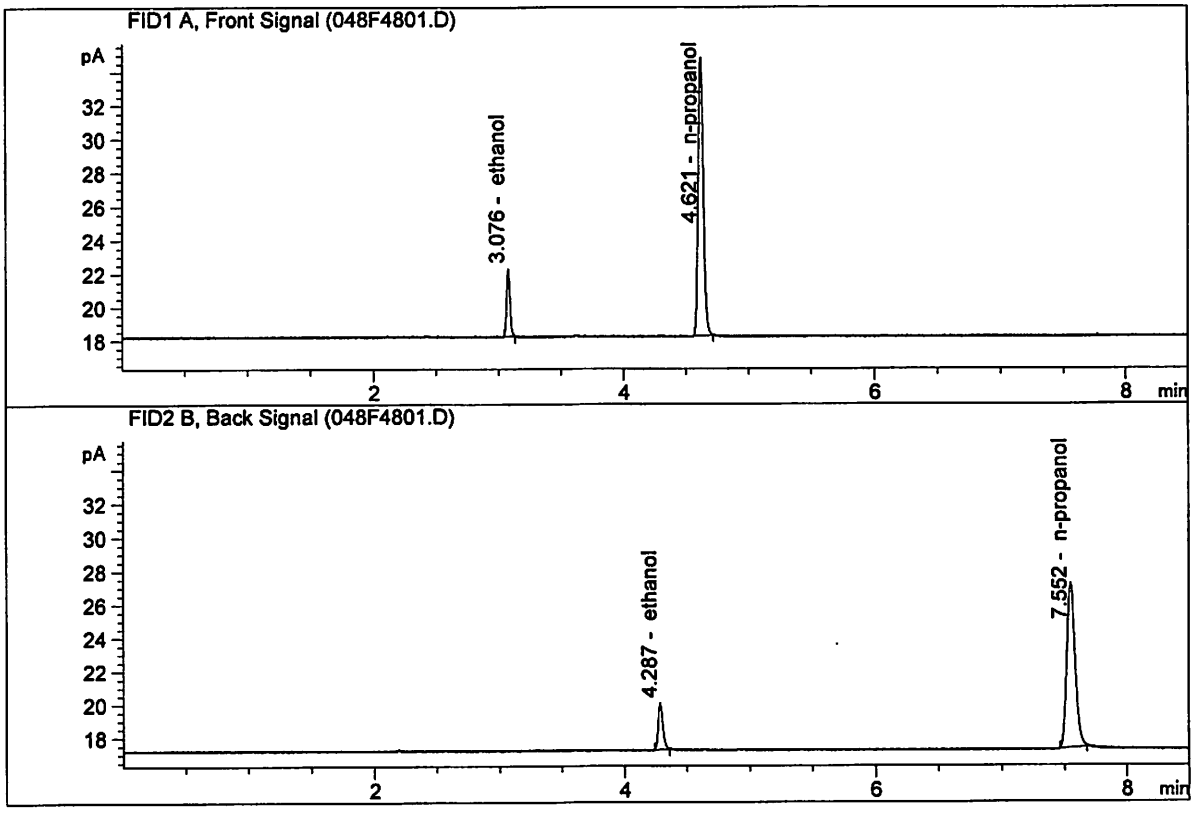


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.64343	0.0825	g/100cc
2.	Ethanol	Column 2:	7.60425	0.0836	g/100cc
3.	n-Propanol	Column 1:	47.26984	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.17691	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : Mar 1, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.61520	0.0820	g/100cc
2.	Ethanol	Column 2:	7.54102	0.0828	g/100cc
3.	n-Propanol	Column 1:	47.38533	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.28981	1.0000	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 01 Mar 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2028	0.2022	0.0006	0.2025	0.2013	
(g/100cc)	0.2004	0.2000	0.0004	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
0.201	**0.190**	**0.212**	**0.011**

Reported Result

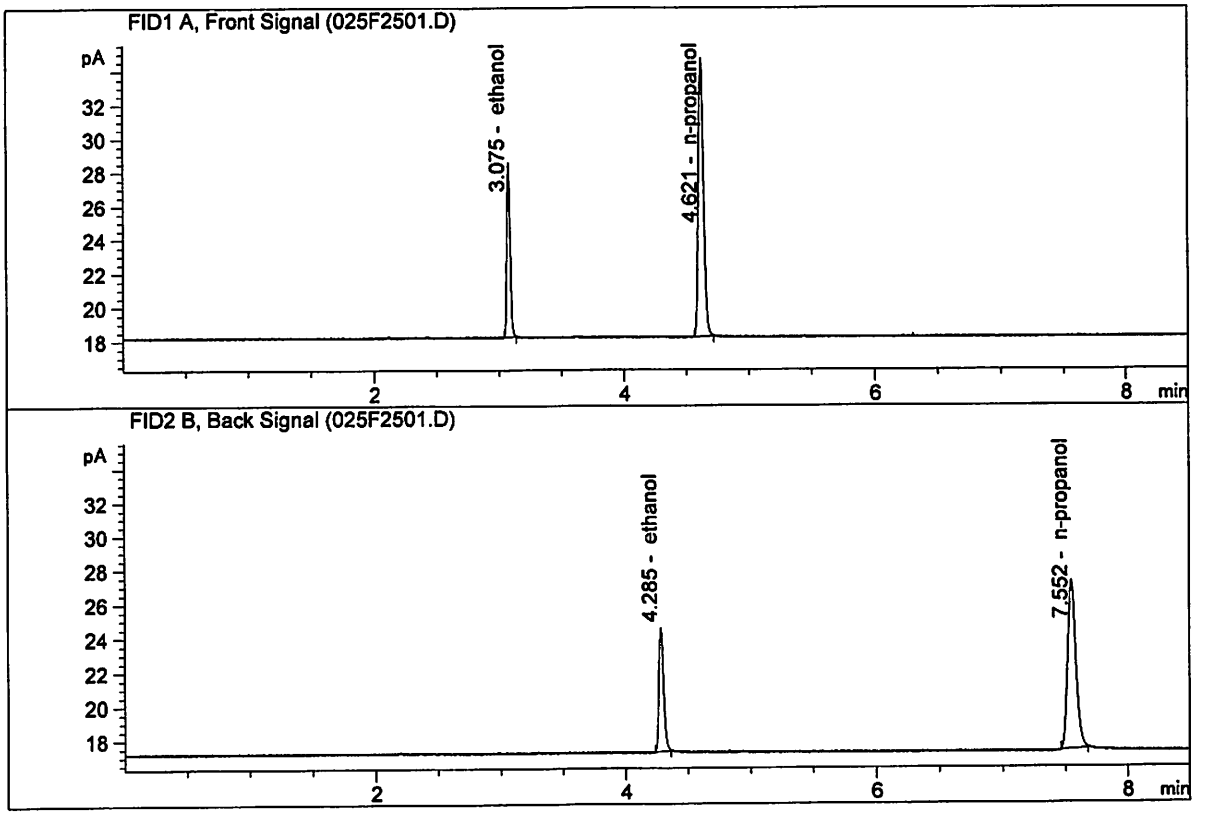
0.201

Calibration and control data are stored centrally.

NB

ISP Forensic Services Blood Alcohol Report

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

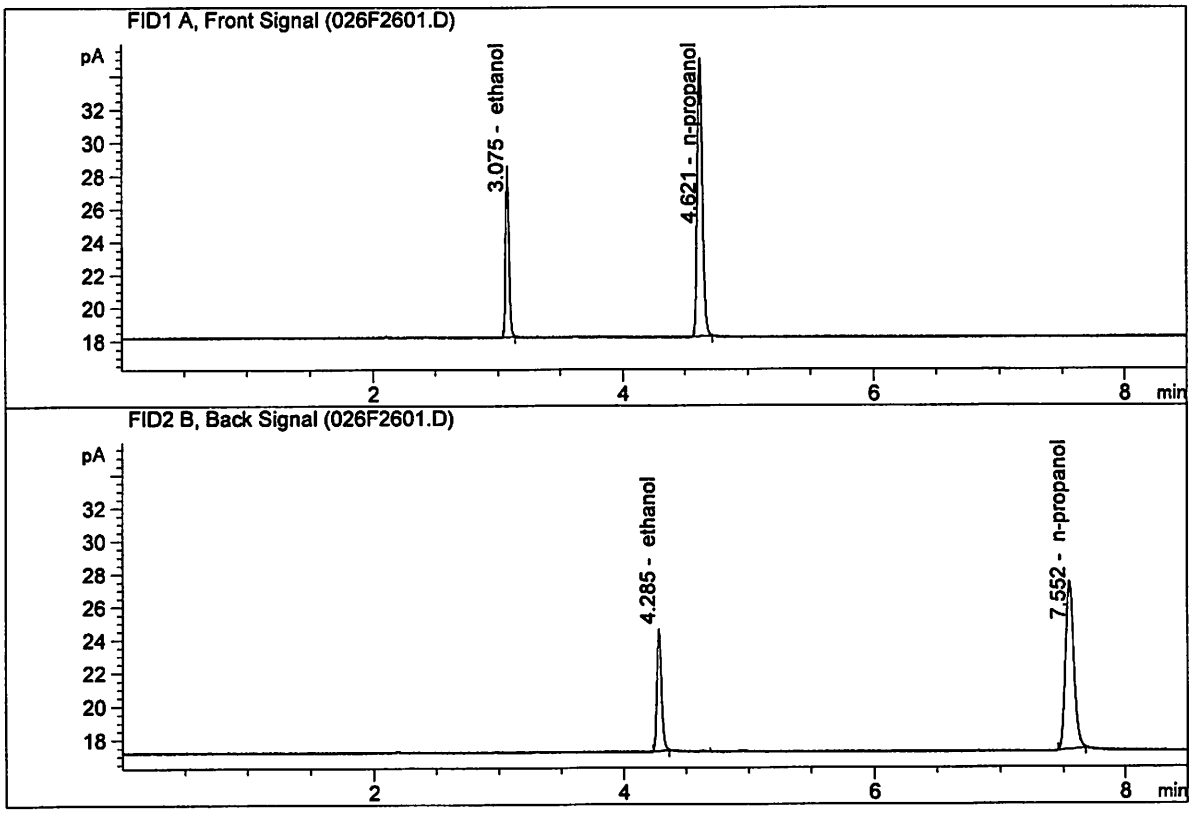


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.06004	0.2028	g/100cc
2.	Ethanol	Column 2:	19.47033	0.2022	g/100cc
3.	n-Propanol	Column 1:	47.19195	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.30138	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

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



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.15244	0.2004	g/100cc
2.	Ethanol	Column 2:	19.58412	0.2000	g/100cc
3.	n-Propanol	Column 1:	48.00885	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.11493	1.0000	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-2 **Analysis Date(s): 02 Mar 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2087	0.2081	0.0006	0.2084	0.2090	
(g/100cc)	0.2099	0.2096	0.0003	0.2097		

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

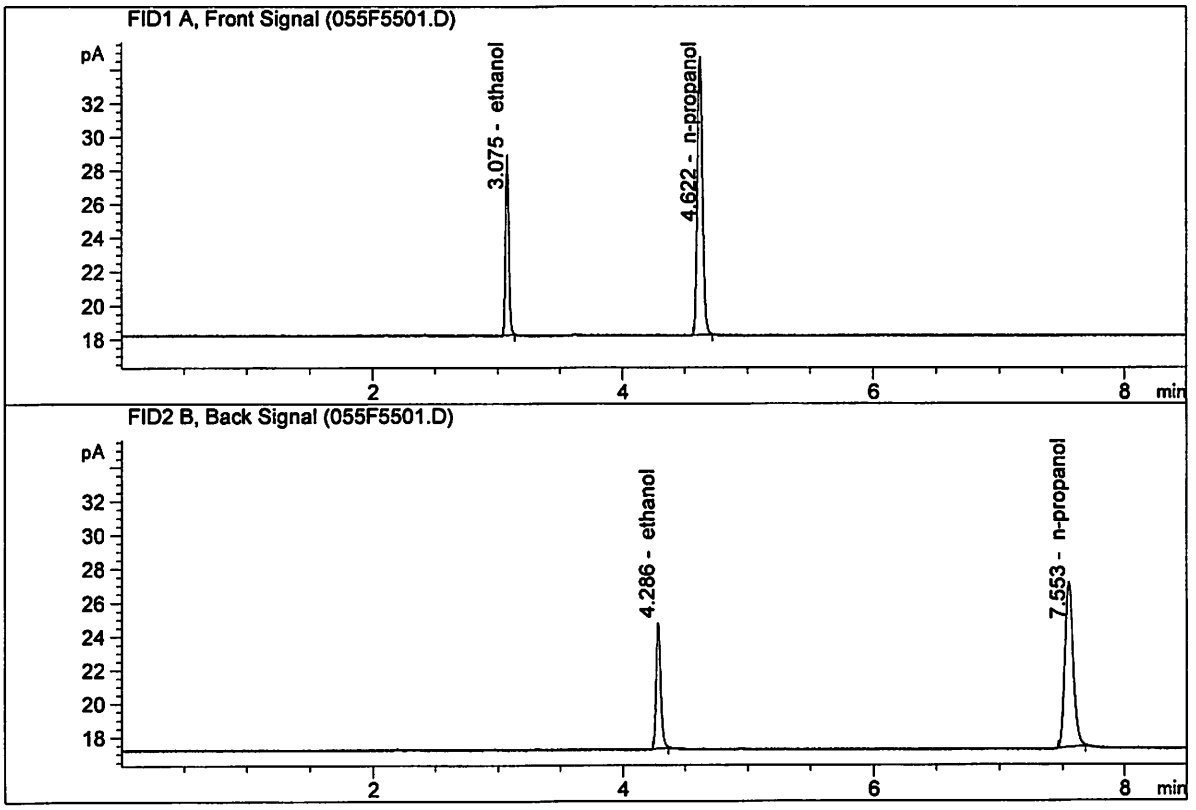
	Reported Result	
	0.209	

Calibration and control data are stored centrally.

NB

ISP Forensic Services Blood Alcohol Report

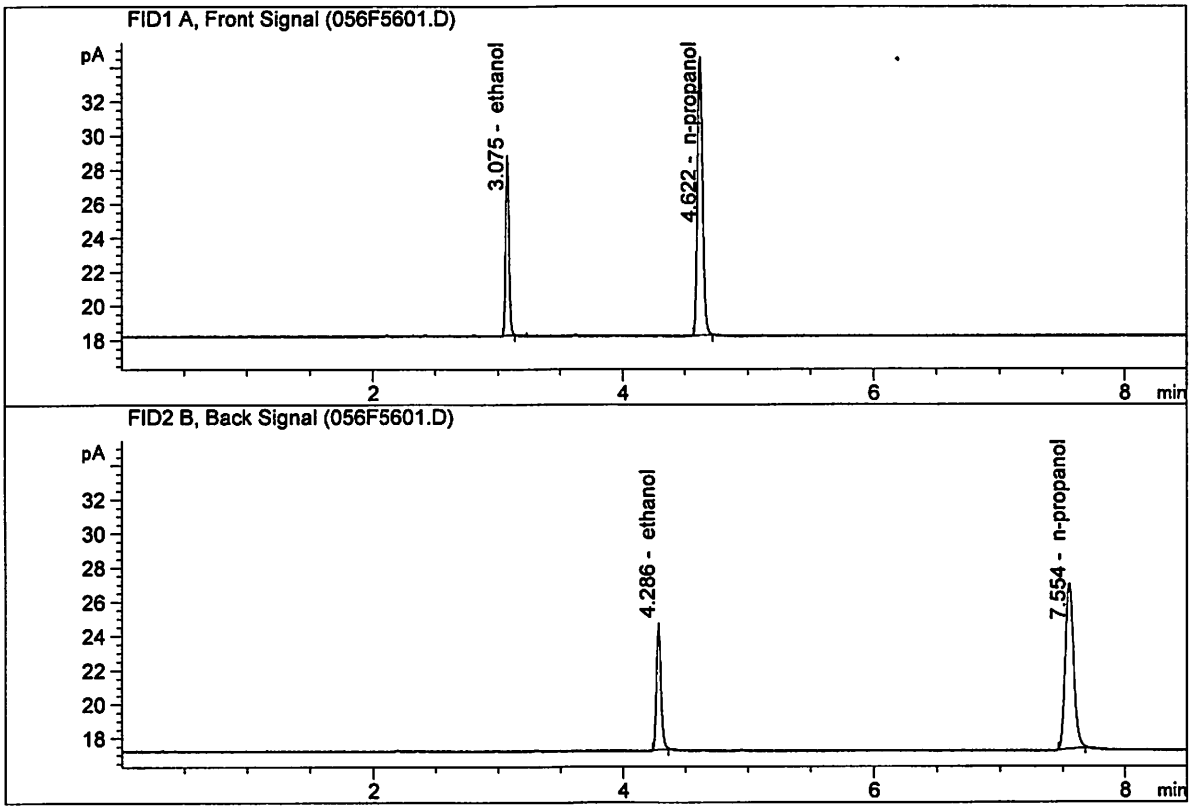
Sample Name : QC2-2-A
Laboratory : Meridian
Injection Date : Mar 2, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.58672	0.2087	g/100cc
2.	Ethanol	Column 2:	19.93648	0.2081	g/100cc
3.	n-Propanol	Column 1:	47.13098	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.00331	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-B
Laboratory : Meridian
Injection Date : Mar 2, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.44295	0.2099	g/100cc
2.	Ethanol	Column 2:	19.78495	0.2096	g/100cc
3.	n-Propanol	Column 1:	46.51481	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.30624	1.0000	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN10281510 **Analysis Date(s): 01 Mar 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0805	0.0812	0.0007	0.0808	0.0805	
(g/100cc)	0.0799	0.0807	0.0008	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**

Reported Result

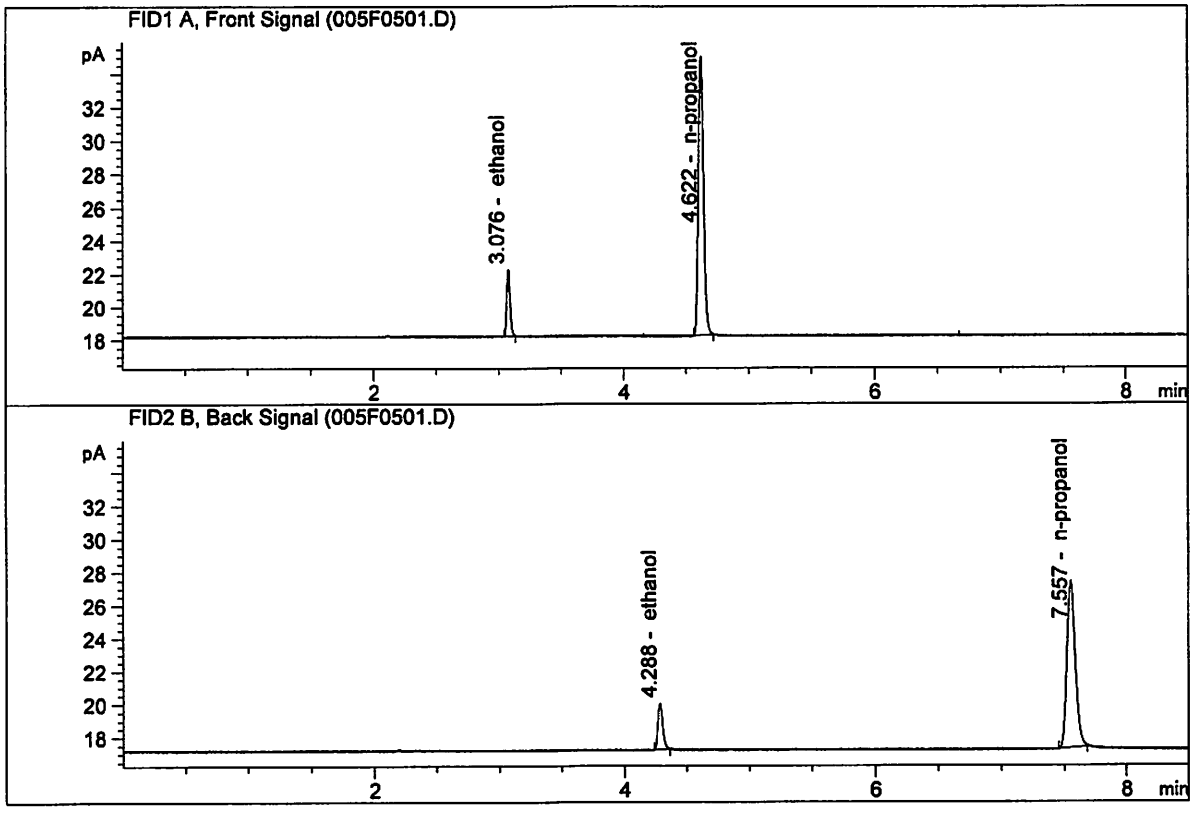
0.080

Calibration and control data are stored centrally.

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-A
Laboratory : Meridian
Injection Date : Mar 1, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

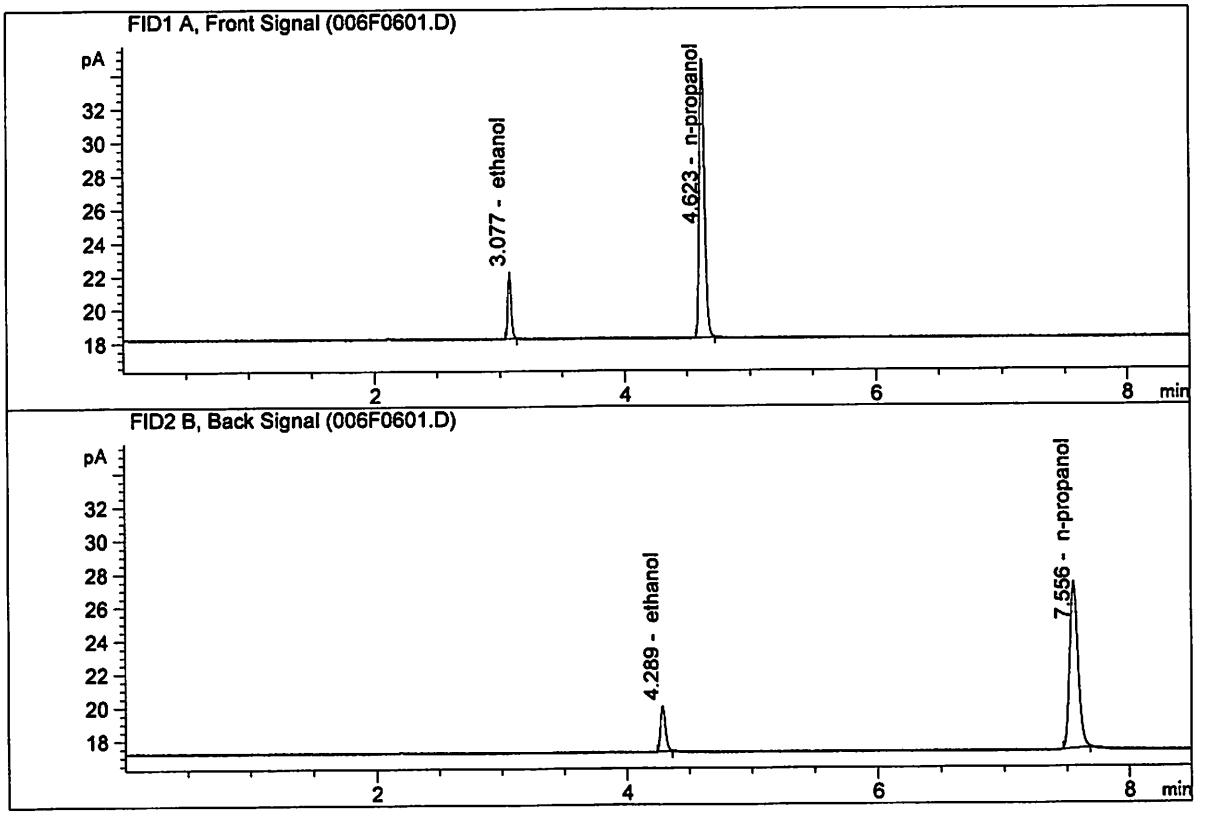


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.57841	0.0805	g/100cc
2.	Ethanol	Column 2:	7.58743	0.0812	g/100cc
3.	n-Propanol	Column 1:	48.06151	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.61846	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-B
Laboratory : Meridian
Injection Date : Mar 1, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

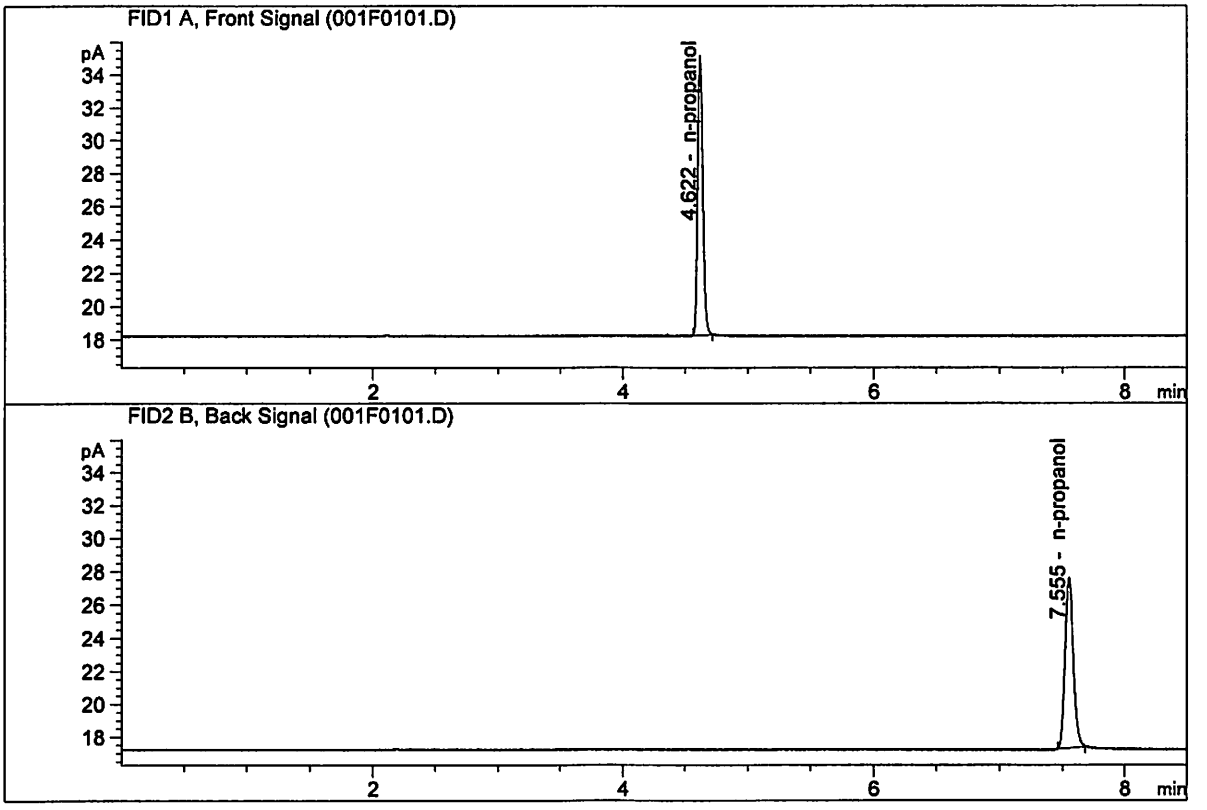


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.46325	0.0799	g/100cc
2.	Ethanol	Column 2:	7.45147	0.0807	g/100cc
3.	n-Propanol	Column 1:	47.67844	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.05790	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

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

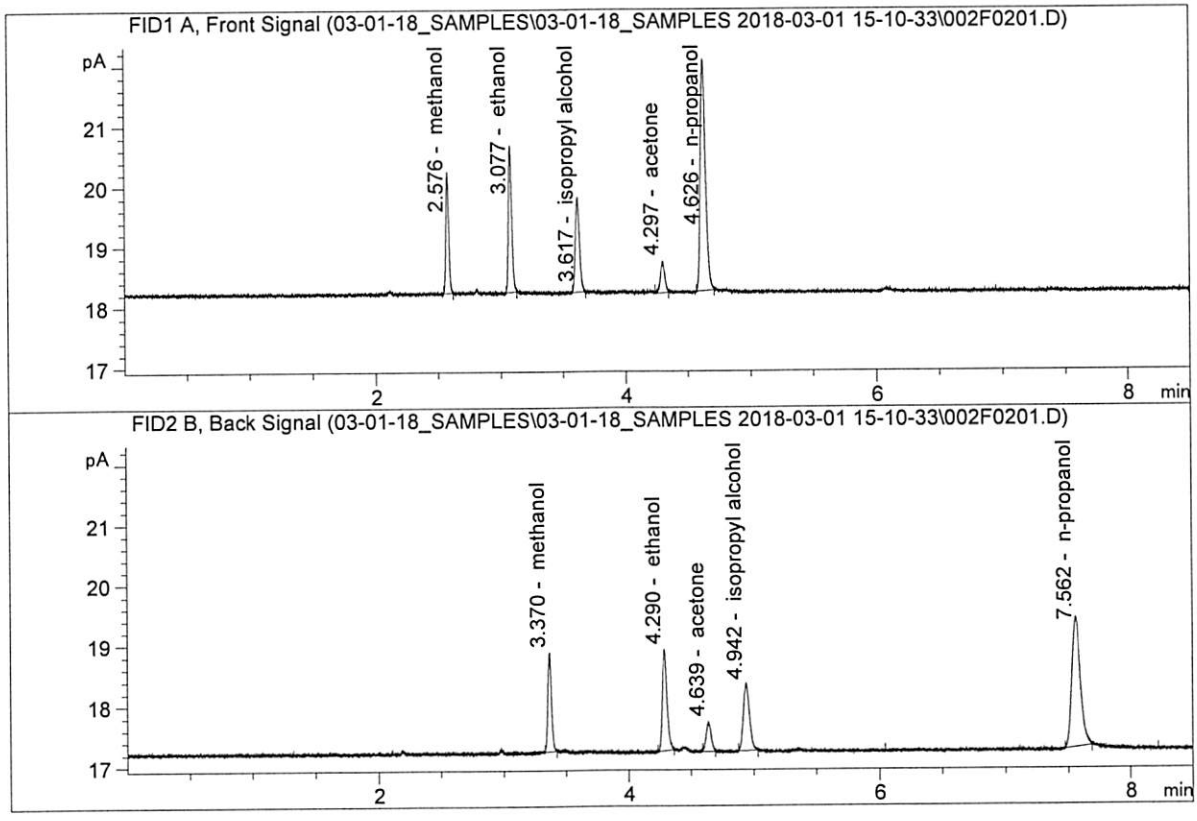


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	48.33593	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.16218	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN09231404
Laboratory : Meridian
Injection Date : Mar 1, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



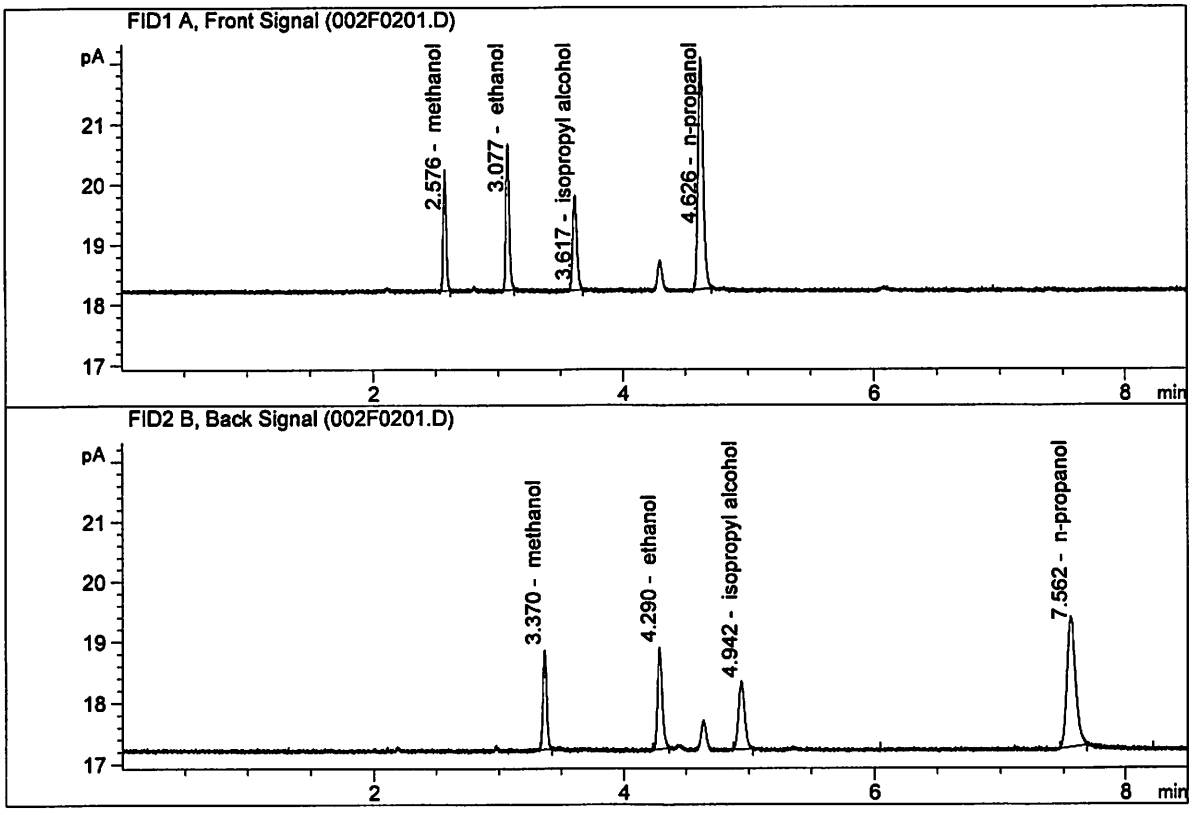
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	4.46927	0.2045	g/100cc
2.	Ethanol	Column 2:	4.54229	0.2131	g/100cc
3.	n-Propanol	Column 1:	10.97780	1.0000	g/100cc
4.	n-Propanol	Column 2:	10.44833	1.0000	g/100cc

Manual integration of acetone peak

MB

ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN09231404
Laboratory : Meridian
Injection Date : Mar 1, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



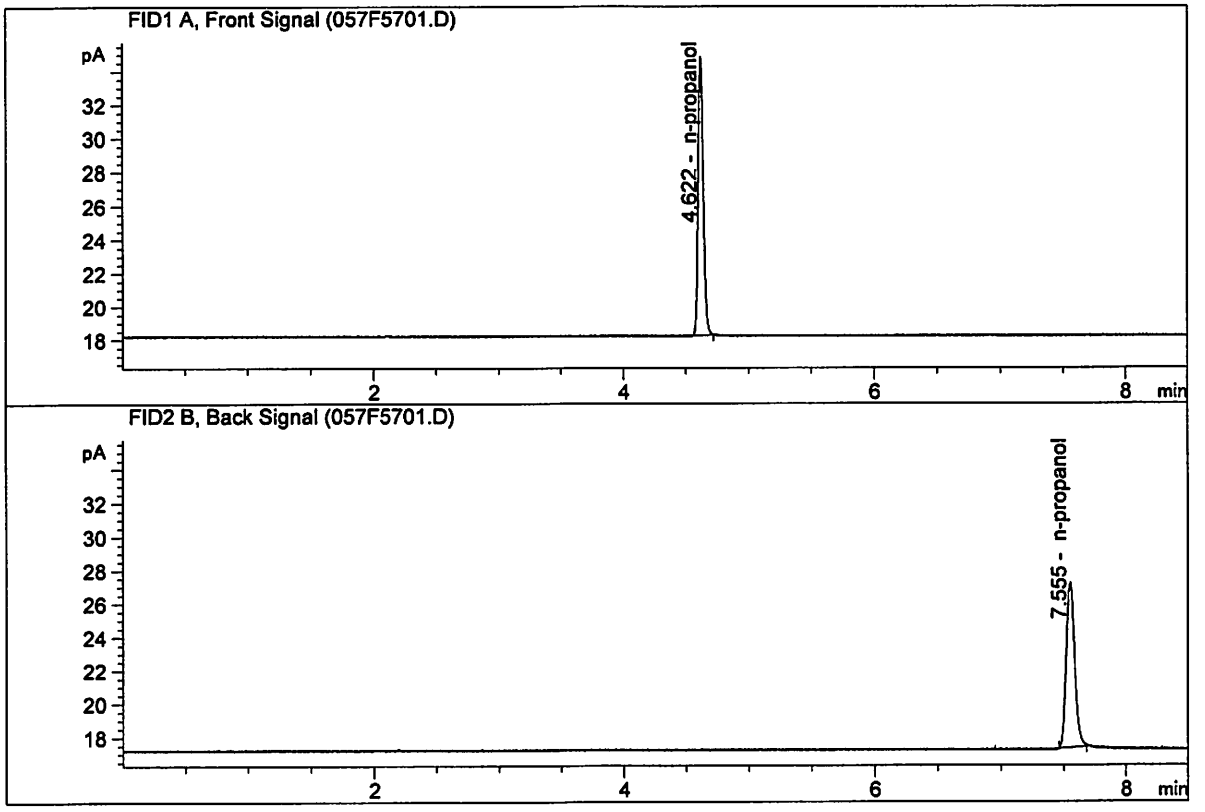
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	4.46927	0.2045	g/100cc
2.	Ethanol	Column 2:	4.54229	0.2131	g/100cc
3.	n-Propanol	Column 1:	10.97780	1.0000	g/100cc
4.	n-Propanol	Column 2:	10.44833	1.0000	g/100cc

original

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Mar 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:	47.27216	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.08653	1.0000	g/100cc

NB

Sequence File C:\Chem32\...8_SAMPLES\03-01-18_SAMPLES 2018-03-01 15-10-33\03-01-18_SAMPLES.S

Sample Summary

Sequence table: C:\Chem32\1\Data\03-01-18_SAMPLES\03-01-18_SAMPLES 2018-03-01 15-10-33\03-01-18_SAMPLES.S
Data directory path: C:\Chem32\1\Data\03-01-18_SAMPLES\03-01-18_SAMPLES 2018-03-01 15-10-33\
Logbook: C:\Chem32\1\Data\03-01-18_SAMPLES\03-01-18_SAMPLES 2018-03-01 15-10-33\03-01-18_SAMPLES.LOG
Sequence start: 3/1/2018 3:25:21 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\03-01-18_SAMPLES\03-01-18_SAMPLES 2018-03-01 15-10-33\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	8
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	M2018-0902-1-A	-	1.0000	007F0701.D	4
8	8	1	M2018-0902-1-B	-	1.0000	008F0801.D	4
9	9	1	M2018-0904-1-A	-	1.0000	009F0901.D	4
10	10	1	M2018-0904-1-B	-	1.0000	010F1001.D	4
11	11	1	M2018-0905-1-A	-	1.0000	011F1101.D	4
12	12	1	M2018-0905-1-B	-	1.0000	012F1201.D	4
13	13	1	M2018-0915-1-A	-	1.0000	013F1301.D	4
14	14	1	M2018-0915-1-B	-	1.0000	014F1401.D	4
15	15	1	M2018-0916-1-A	-	1.0000	015F1501.D	2
16	16	1	M2018-0916-1-B	-	1.0000	016F1601.D	2
17	17	1	M2018-0916-2-A	-	1.0000	017F1701.D	2
18	18	1	M2018-0916-2-B	-	1.0000	018F1801.D	2
19	19	1	M2018-0917-1-A	-	1.0000	019F1901.D	2
20	20	1	M2018-0917-1-B	-	1.0000	020F2001.D	2
21	21	1	M2018-0923-2-A	-	1.0000	021F2101.D	2
22	22	1	M2018-0923-2-B	-	1.0000	022F2201.D	2
23	23	1	M2018-0942-1-A	-	1.0000	023F2301.D	4
24	24	1	M2018-0942-1-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	M2018-0943-1-A	-	1.0000	027F2701.D	6
28	28	1	M2018-0943-1-B	-	1.0000	028F2801.D	6
29	29	1	M2018-0945-1-A	-	1.0000	029F2901.D	6
30	30	1	M2018-0945-1-B	-	1.0000	030F3001.D	6
31	31	1	M2018-0968-1-A	-	1.0000	031F3101.D	6
32	32	1	M2018-0968-1-B	-	1.0000	032F3201.D	6
33	33	1	M2018-0969-1-A	-	1.0000	033F3301.D	4
34	34	1	M2018-0969-1-B	-	1.0000	034F3401.D	4
35	35	1	M2018-0975-1-A	-	1.0000	035F3501.D	6
36	36	1	M2018-0975-1-B	-	1.0000	036F3601.D	6
37	37	1	M2018-0975-2-A	-	1.0000	037F3701.D	6
38	38	1	M2018-0975-2-B	-	1.0000	038F3801.D	6
39	39	1	M2018-0975-3-A	-	1.0000	039F3901.D	2
40	40	1	M2018-0975-3-B	-	1.0000	040F4001.D	2
41	41	1	M2018-0975-4-A	-	1.0000	041F4101.D	5
42	42	1	M2018-0975-4-B	-	1.0000	042F4201.D	6
43	43	1	M2018-0978-1-A	-	1.0000	043F4301.D	4

NB

Sequence File C:\Chem32\...8_SAMPLES\03-01-18_SAMPLES 2018-03-01 15-10-33\03-01-18_SAMPLES.S

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
44	44	1	M2018-0978-1-B	-	1.0000	044F4401.D	4
45	45	1	M2018-0981-1-A	-	1.0000	045F4501.D	4
46	46	1	M2018-0981-1-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	M2018-0982-1-A	-	1.0000	049F4901.D	4
50	50	1	M2018-0982-1-B	-	1.0000	050F5001.D	4
51	51	1	M2018-0985-1-A	-	1.0000	051F5101.D	2
52	52	1	M2018-0985-1-B	-	1.0000	052F5201.D	2
53	53	1	P2018-0549-1-A	-	1.0000	053F5301.D	4
54	54	1	P2018-0549-1-B	-	1.0000	054F5401.D	4
55	55	1	QC2-2-A	-	1.0000	055F5501.D	4
56	56	1	QC2-2-B	-	1.0000	056F5601.D	4
57	57	1	INTERNAL STD BLK	-	1.0000	057F5701.D	2

Method file name: C:\Chem32\1\Data\03-01-18_SAMPLES\03-01-18_SAMPLES 2018-03-01 15-10-33\SHUTDOWN.M

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
58	58	1	EMPTY	-	1.0000	058F5801.D	0

NB