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/MD94AM10010

Volatiles Quality Assurance Controls **Run Date(s): 07/07/2017-07/08/2017**

Calibration Date: 7/7/2017

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-18	1407031	0.0780	0.0702 - 0.0858	0.0789 g/100cc
					0.0795 g/100cc
					g/100cc
Level 2	Jul-18	1407032	0.2020	0.1818 - 0.2222	0.1983 g/100cc
					0.2063 g/100cc

Multi-Component Mixture	**Exp: Oct 2019**	**Lot #**	FN09231404		OK
Curve Fit:		**Column 1**	0.99999	**Column 2**	0.99992

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	0.0508	0.0528	0.002	0.0518
0.080			0.080	0.072 - 0.088			0	#DIV/0!
0.100	Jun-20	FN06181501	0.100	0.090 - 0.110	0.0997	0.0995	0.0002	0.0996
0.200	Oct-20	FN07201502	0.200	0.180 - 0.220	0.1991	0.1976	0.0015	0.1983
0.300	Feb-21	FN02121601	0.300	0.270 - 0.330	0.3001	0.2984	0.0017	0.2992
0.400			0.400	0.360 - 0.440			0	#DIV/0!
0.500	Aug-19	FN07031402	0.500	0.450 - 0.550	0.5003	0.5018	0.0015	0.501

Aqueous Controls					
Control level	**Expiration**	**Cerilliant Lot #**	**Target Value**	**Acceptable Range**	**Overall Results**
0.080	Nov-20	FN10281510	0.08000	0.076 - 0.084	0.081 g/100cc

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

JG

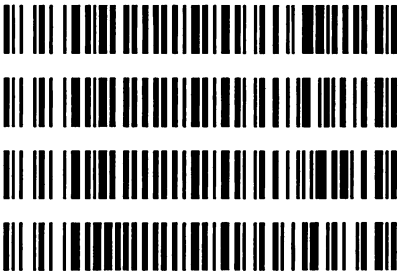
Worklist: 1800

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2017-2951	2	88529	Alcohol Analysis
M2017-2973	1	88571	Alcohol Analysis
M2017-2974	1	88575	Alcohol Analysis
M2017-2981	1	88587	Alcohol Analysis
M2017-2982	1	88591	Alcohol Analysis
M2017-2983	1	88592	Alcohol Analysis
M2017-2987	1	88647	Alcohol Analysis
M2017-2988	1	88813	Alcohol Analysis
M2017-2988	2	88814	Alcohol Analysis
M2017-2989	1	88815	Alcohol Analysis
M2017-2989	2	88816	Alcohol Analysis
M2017-2990	1	88818	Alcohol Analysis
M2017-2990	2	88817	Alcohol Analysis
M2017-2991	1	88681	Alcohol Analysis
M2017-3016	1	88997	Alcohol Analysis
M2017-3016	2	88996	Alcohol Analysis
M2017-3017	1	88919	Alcohol Analysis
M2017-3018	1	88925	Alcohol Analysis
M2017-3019	1	88929	Alcohol Analysis
M2017-3021	1	88968	Alcohol Analysis
M2017-3022	1	89005	Alcohol Analysis
M2017-3023	1	89006	Alcohol Analysis
M2017-3024	1	89007	Alcohol Analysis

JG

Worklist: 1800

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2017-3025	1	89008	Alcohol Analysis
M2017-3050	1	89056	Alcohol Analysis
M2017-3056	1	89085	Alcohol Analysis
P2017-1511	2	88921	Alcohol Analysis



Calibration Table

General Calibration Setting

Calib. Data Modified : Friday, July 07, 2017 3:08:21 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

JL

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
3.072	1	1	5.00000e-2	4.40244	1.13573e-2	No	No	1	ethanol
		2	1.00000e-1	8.85186	1.12971e-2				
		3	2.00000e-1	17.77598	1.12511e-2				
		4	3.00000e-1	26.27114	1.14194e-2				
		5	5.00000e-1	44.13909	1.13278e-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
4.281	2	1	5.00000e-2	4.38778	1.13953e-2	No	No	2	ethanol
		2	1.00000e-1	8.85360	1.12948e-2				
		3	2.00000e-1	18.10852	1.10445e-2				
		4	3.00000e-1	26.94650	1.11332e-2				
		5	5.00000e-1	45.78714	1.09201e-2				
4.308	1	1	1.00000	6.49940	1.53860e-1	No	No	1	acetone
4.618	1	1	1.00000	45.03209	2.22064e-2	No	Yes	1	n-propanol
		2	1.00000	45.43357	2.20102e-2				
		3	1.00000	45.32043	2.20651e-2				
		4	1.00000	44.32218	2.25621e-2				
		5	1.00000	44.57899	2.24321e-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	45.56691	2.19458e-2	No	Yes	2	n-propanol
		2	1.00000	45.69565	2.18839e-2				
		3	1.00000	45.41307	2.20201e-2				
		4	1.00000	44.22663	2.26108e-2				
		5	1.00000	44.27934	2.25839e-2				

Peak Sum Table

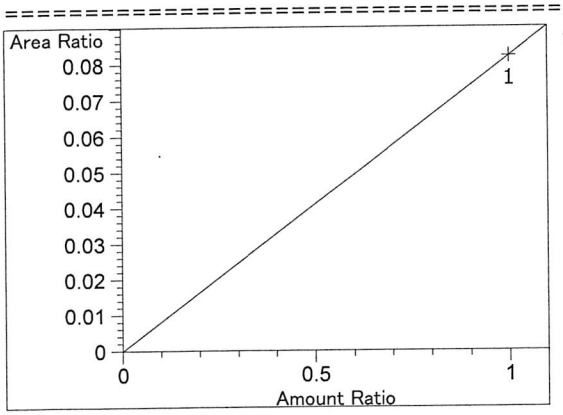
No Entries in table

33 Warnings or Errors (10 first messages follow) :

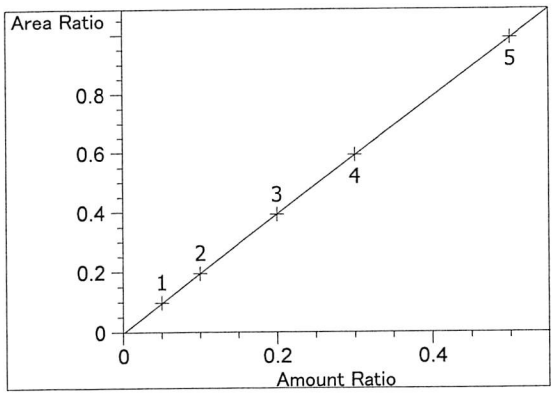
Warning : Curve requires more calibration points., (methanol)
Warning : Curve requires more calibration points. at 2.586 min, signal 1
Warning : Curve requires more calibration points. at 3.388 min, signal 2
Warning : Curve requires more calibration points. at 3.628 min, signal 1
Warning : Curve requires more calibration points. at 4.308 min, signal 1
Warning : Curve requires more calibration points. at 4.618 min, signal 1
Warning : Curve requires more calibration points. at 4.661 min, signal 2
Warning : Curve requires more calibration points. at 4.969 min, signal 2
Warning : Curve requires more calibration points. at 7.55 min, signal 2
Warning : Curve requires more calibration points. at 2.586 min, signal 1

JG

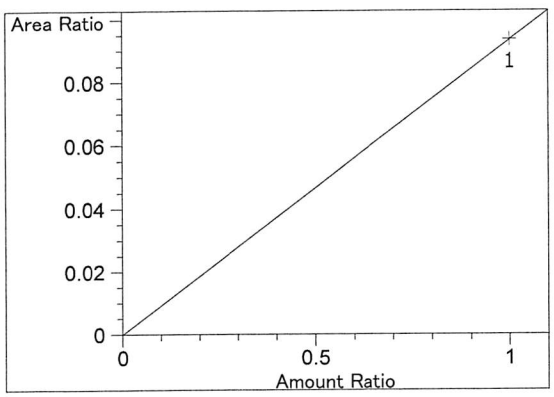
Calibration Curves



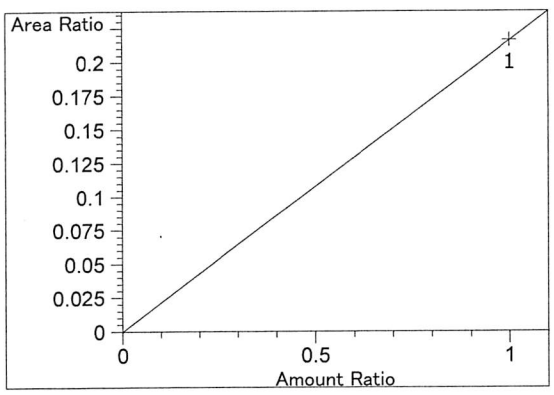
methanol at exp. RT: 2.586
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.20902e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



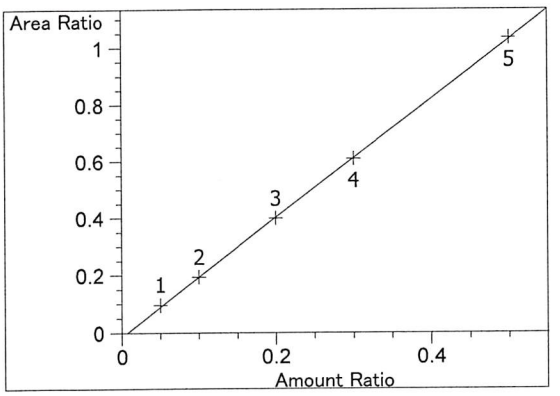
ethanol at exp. RT: 3.072
FID1 A, Front Signal
Correlation: 0.99999
Residual Std. Dev.: 0.00145
Formula: y = mx + b
m: 1.98543
b: -3.11136e-3
x: Amount Ratio
y: Area Ratio



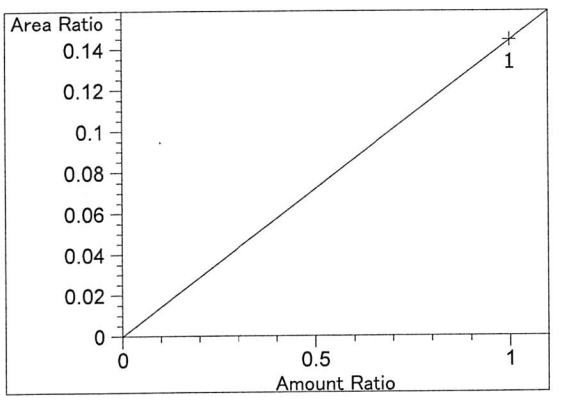
methanol at exp. RT: 3.388
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 9.35026e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



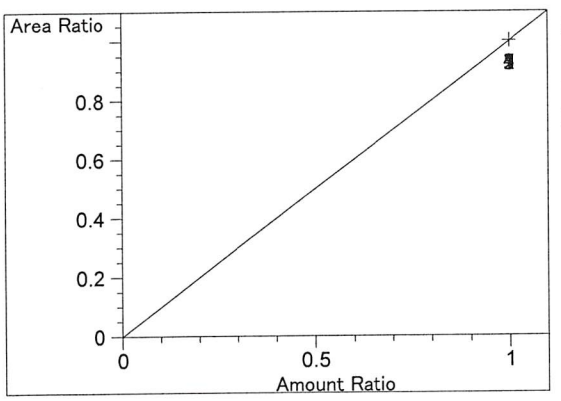
isopropyl alcohol at exp. RT: 3.628
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 2.16080e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



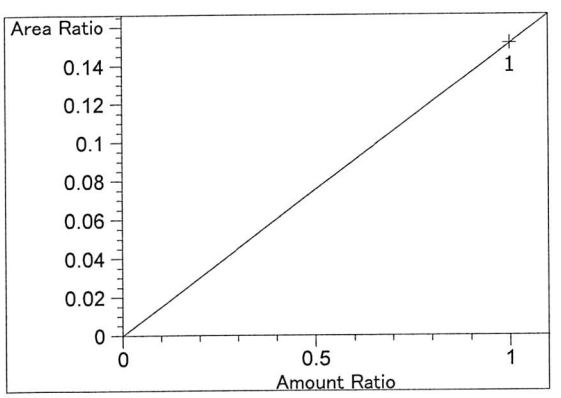
ethanol at exp. RT: 4.281
FID2 B, Back Signal
Correlation: 0.99992
Residual Std. Dev.: 0.00533
Formula: y = mx + b
m: 2.08876
b: -1.39879e-2
x: Amount Ratio
y: Area Ratio



acetone at exp. RT: 4.308
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.44328e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



n-propanol at exp. RT: 4.618
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: 1.51272e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

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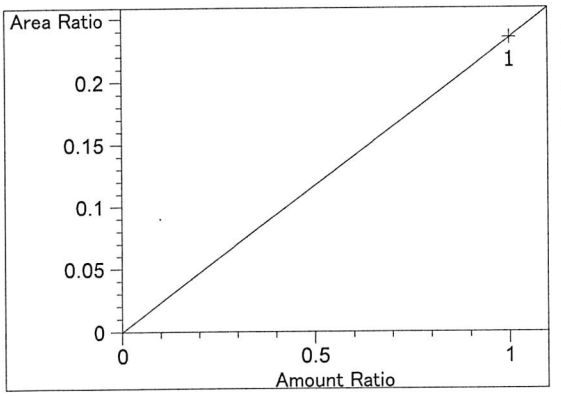
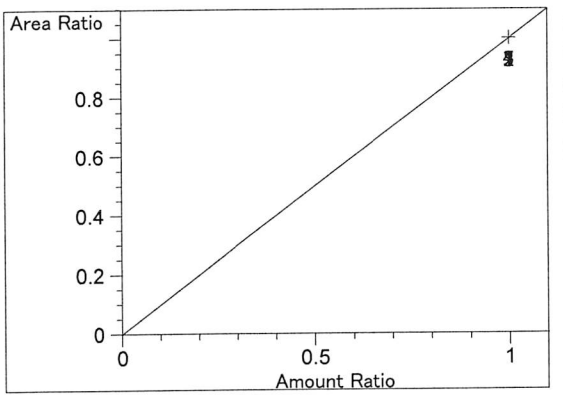


isopropyl alcohol at exp. RT: 4.969
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 2.34960e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



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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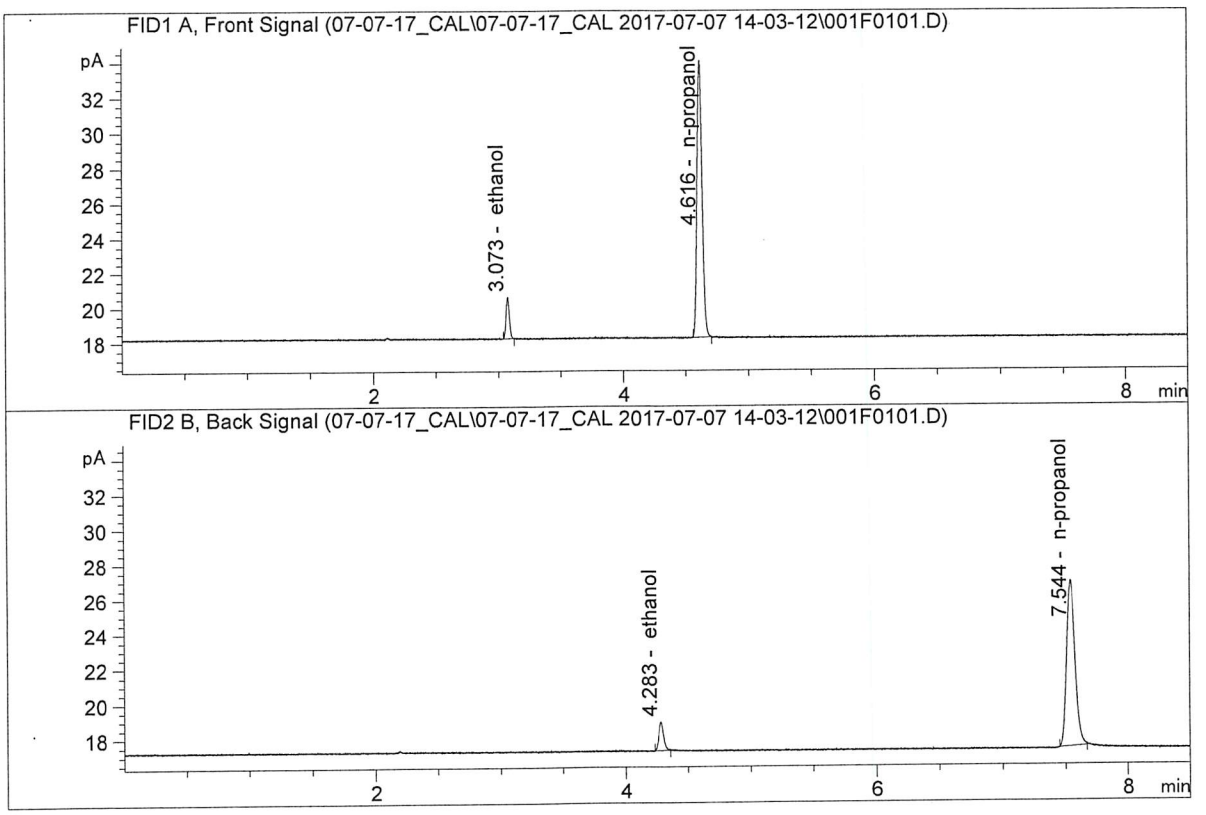
JG

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.050 FN06231406
Laboratory : Meridian
Injection Date : Jul 7, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

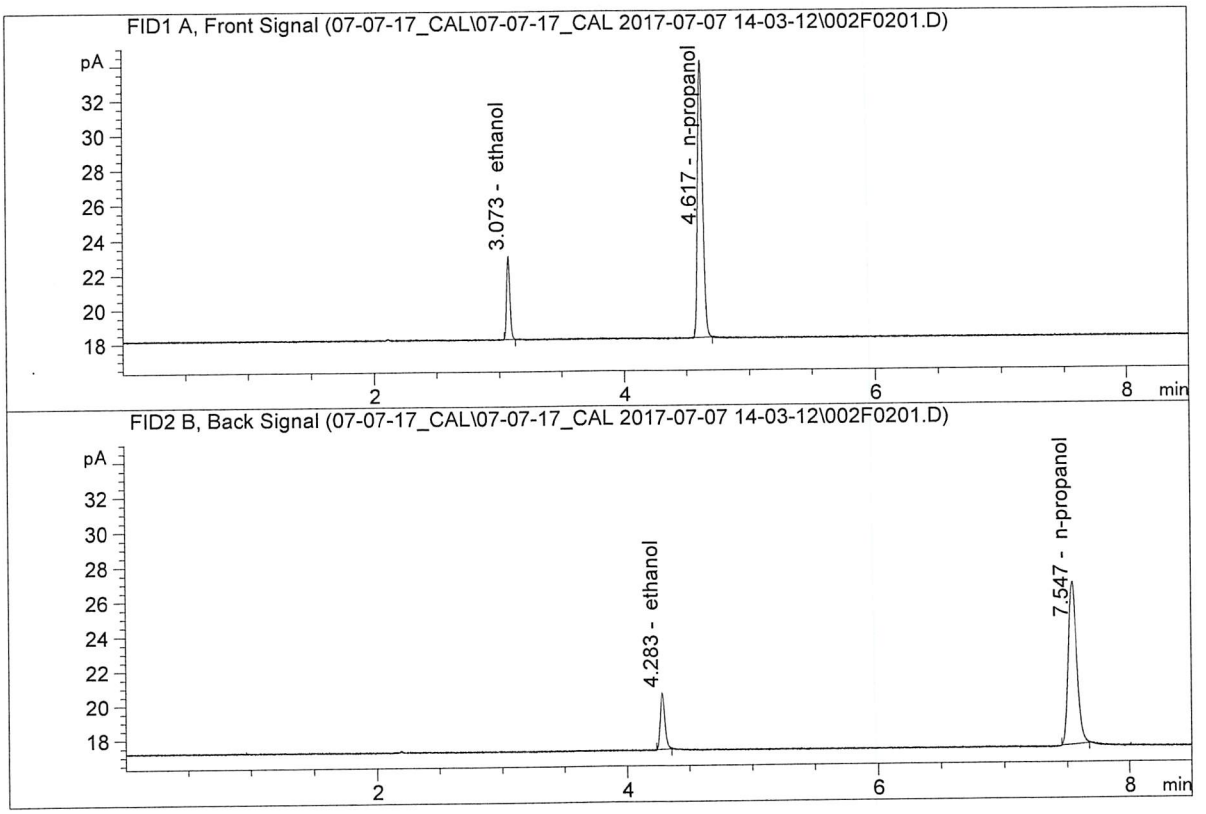


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	4.40244	0.0508	g/100cc
2.	Ethanol	Column 2:	4.38778	0.0528	g/100cc
3.	n-Propanol	Column 1:	45.03209	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.56691	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.100 FN06181501
Laboratory : Meridian
Injection Date : Jul 7, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

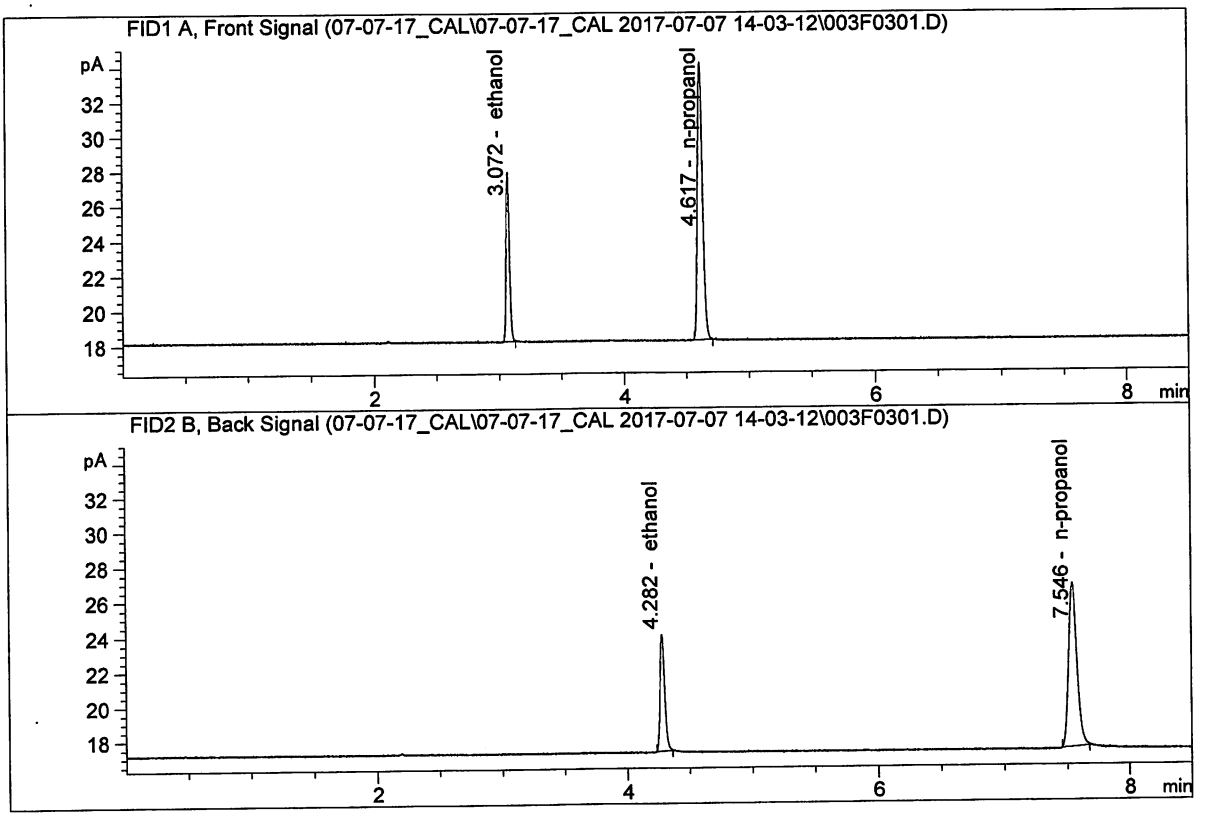


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.85186	0.0997	g/100cc
2.	Ethanol	Column 2:	8.85360	0.0995	g/100cc
3.	n-Propanol	Column 1:	45.43357	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.69565	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.200 FN07201502
Laboratory : Meridian
Injection Date : Jul 7, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

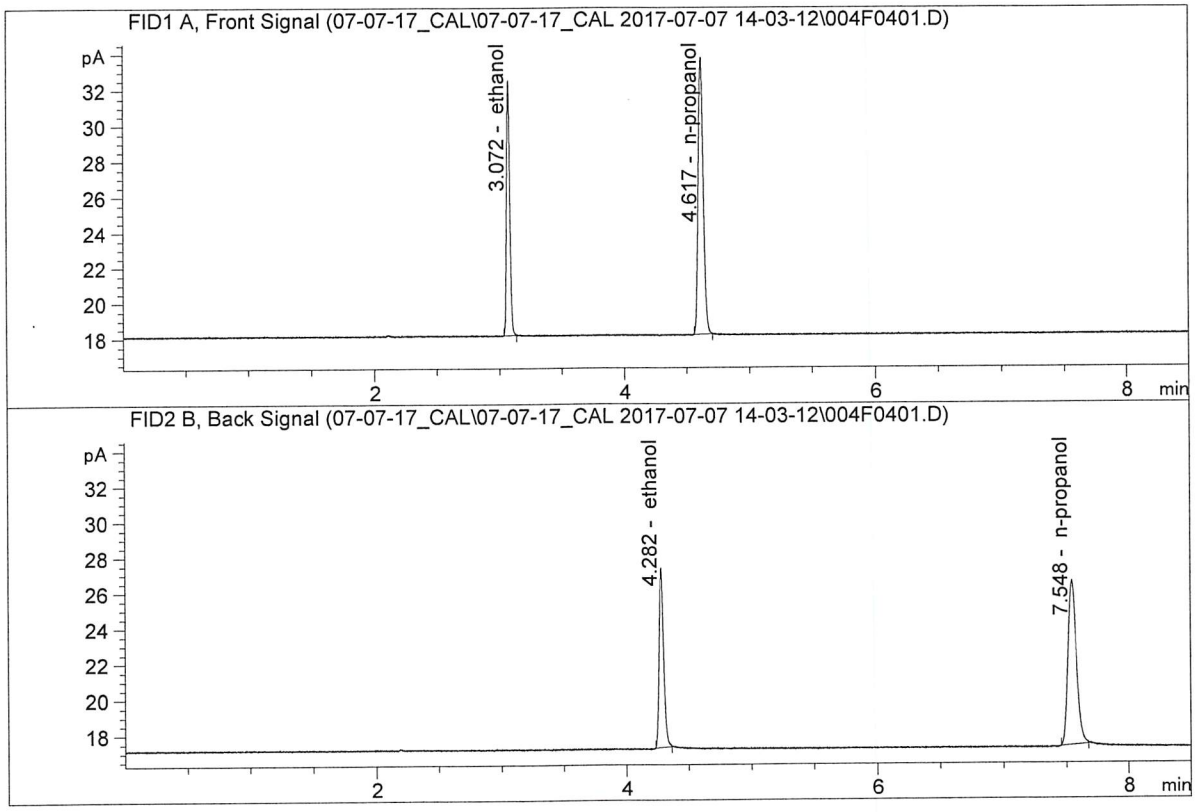


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.77598	0.1991	g/100cc
2.	Ethanol	Column 2:	18.10852	0.1976	g/100cc
3.	n-Propanol	Column 1:	45.32043	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.41307	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.300 FN02121601
Laboratory : Meridian
Injection Date : Jul 7, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	26.27114	0.3001	g/100cc
2.	Ethanol	Column 2:	26.94650	0.2984	g/100cc
3.	n-Propanol	Column 1:	44.32218	1.0000	g/100cc
4.	n-Propanol	Column 2:	44.22663	1.0000	g/100cc

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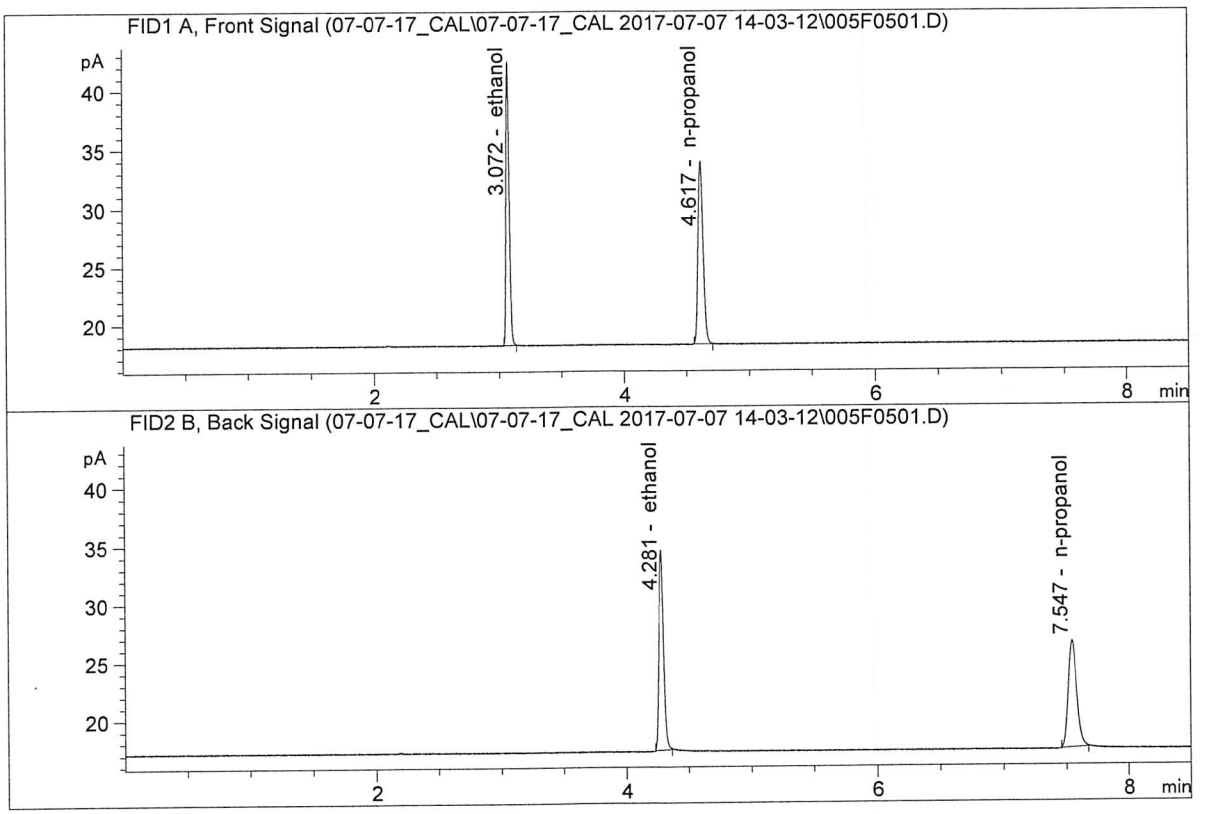
ISP Forensic Services Blood Alcohol Report

Sample Name : 0.500 FN07031402
Laboratory : Meridian
Injection Date : Jul 7, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

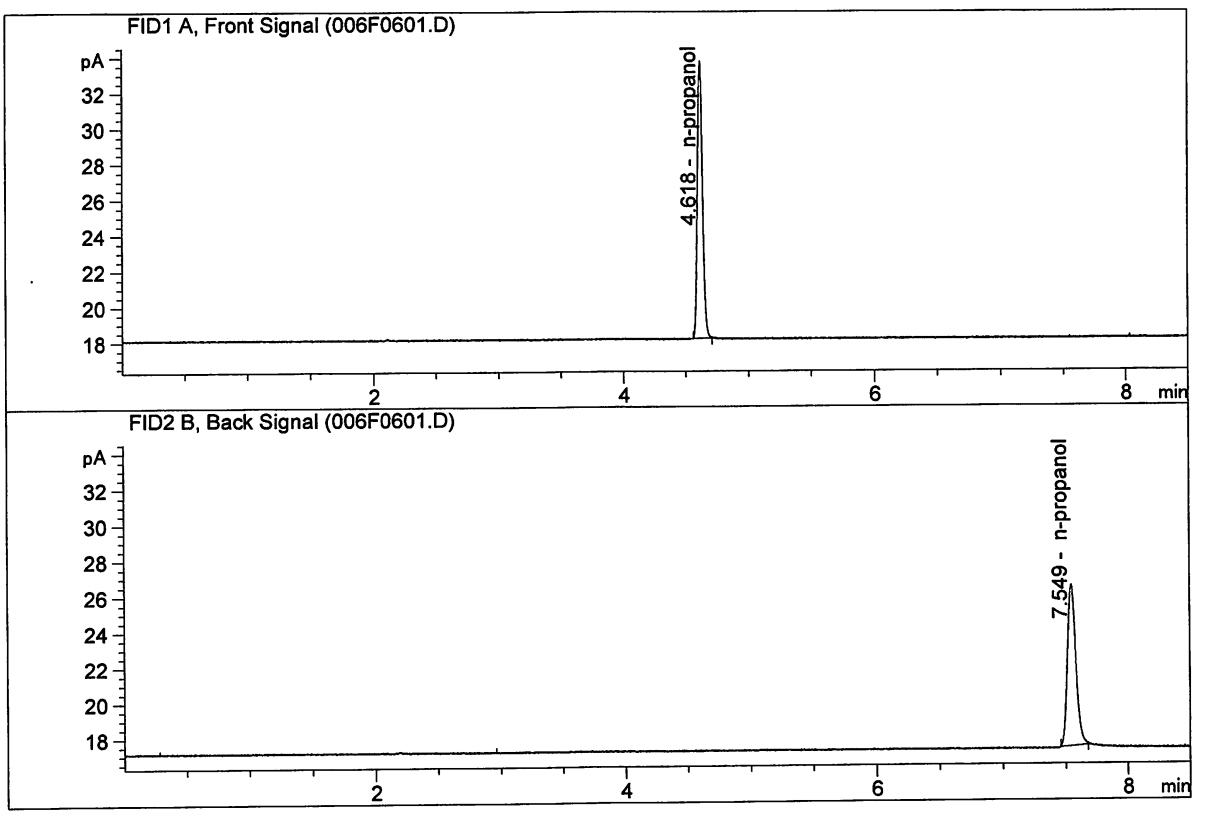


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	44.13909	0.5003	g/100cc
2.	Ethanol	Column 2:	45.78714	0.5018	g/100cc
3.	n-Propanol	Column 1:	44.57899	1.0000	g/100cc
4.	n-Propanol	Column 2:	44.27934	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STANDARD BLANK
Laboratory : Meridian
Injection Date : Jul 7, 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:	44.17977	1.0000	g/100cc
4.	n-Propanol	Column 2:	44.10345	1.0000	g/100cc

JG

Sequence File C:\Chem32\1\Data\07-07-17_CAL\07-07-17_CAL 2017-07-07 14-03-12\07-07-17_CAL.S

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

Sequence table: C:\Chem32\1\Data\07-07-17_CAL\07-07-17_CAL 2017-07-07 14-03-12\07-07-17_CAL.S
Data directory path: C:\Chem32\1\Data\07-07-17_CAL\07-07-17_CAL 2017-07-07 14-03-12\
Logbook: C:\Chem32\1\Data\07-07-17_CAL\07-07-17_CAL 2017-07-07 14-03-12\07-07-17_CAL.LOG
Sequence start: 7/7/2017 2:17:49 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

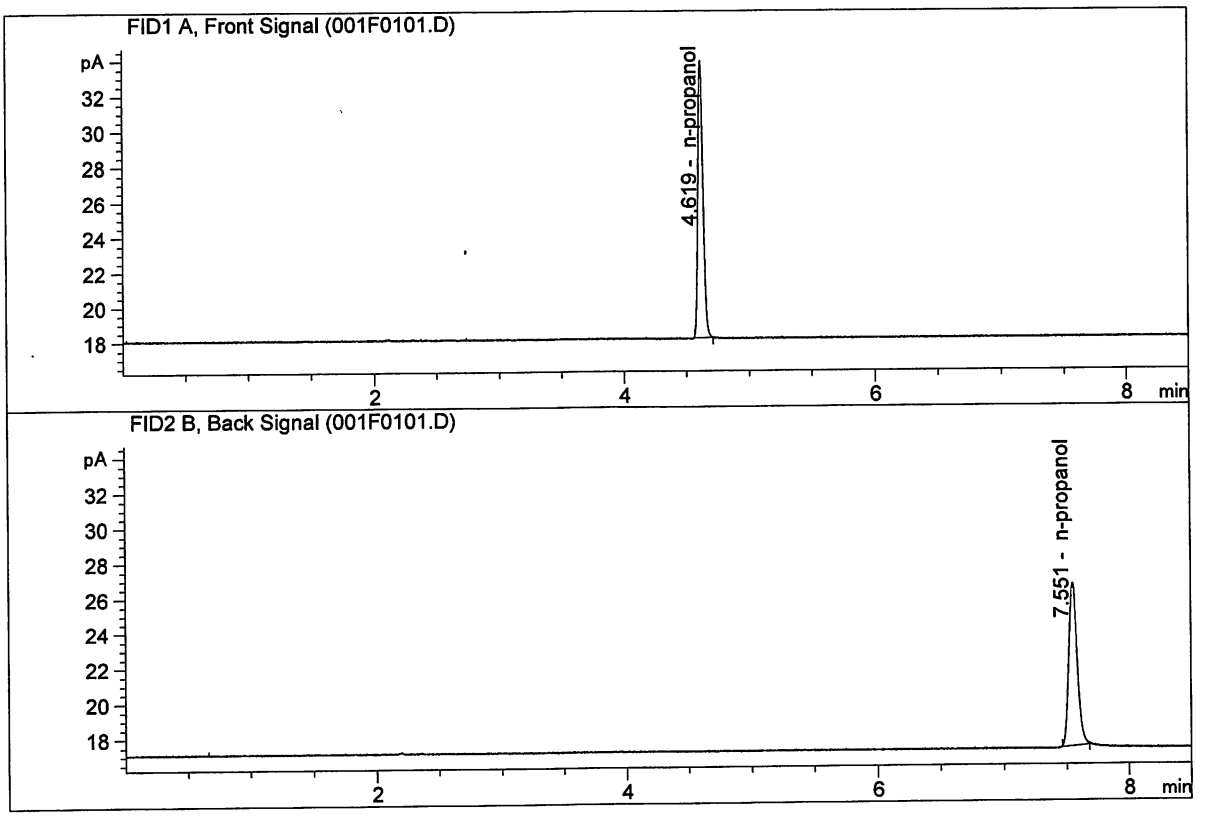
Method file name: C:\Chem32\1\Data\07-07-17_CAL\07-07-17_CAL 2017-07-07 14-03-12\ALCOHOL.M

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

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Jul 7, 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:	44.83806	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.07972	1.0000	g/100cc

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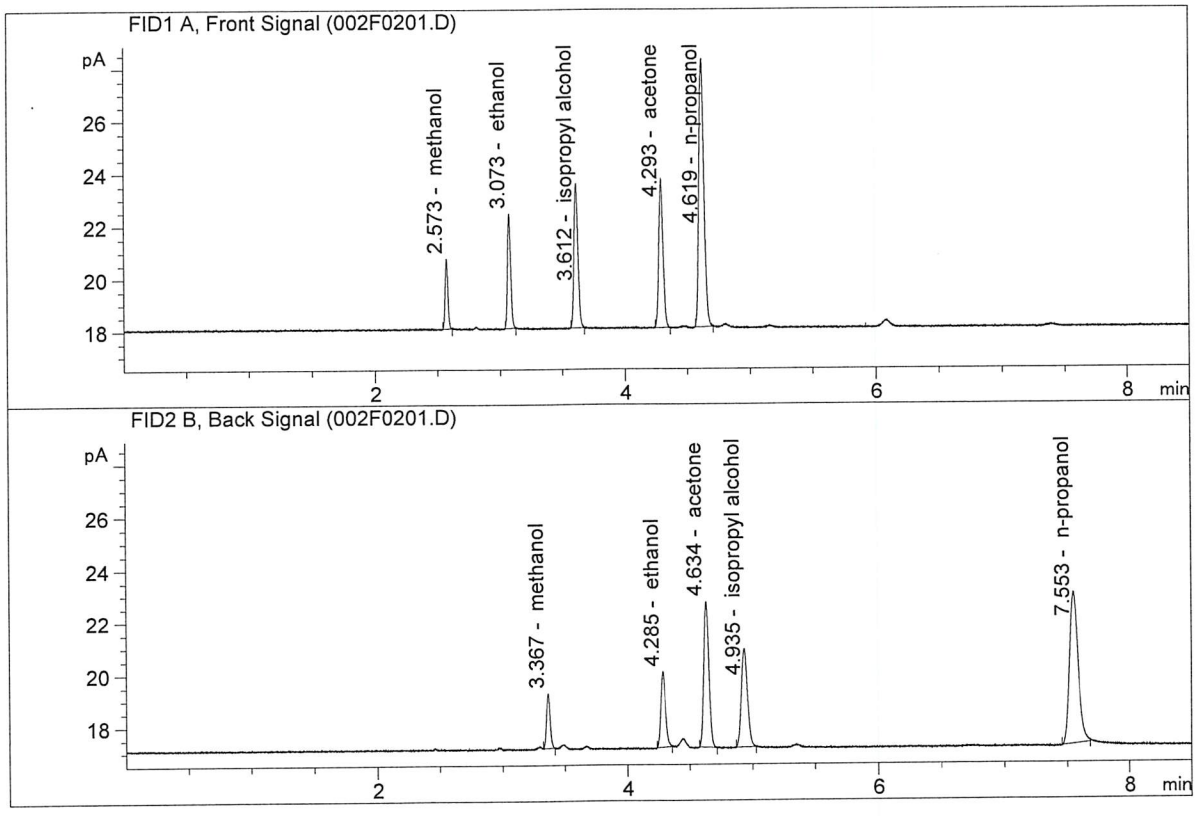
ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN09231404
Laboratory : Meridian
Injection Date : Jul 7, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.78151	0.1377	g/100cc
2.	Ethanol	Column 2:	7.74110	0.1374	g/100cc
3.	n-Propanol	Column 1:	28.79923	1.0000	g/100cc
4.	n-Propanol	Column 2:	28.35760	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN10281510 **Analysis Date(s): 07 Jul 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0810	0.0817	0.0007	0.0813	0.0815	
(g/100cc)	0.0811	0.0824	0.0013	0.0817		

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
0.081	**0.076**	**0.086**	**0.005**

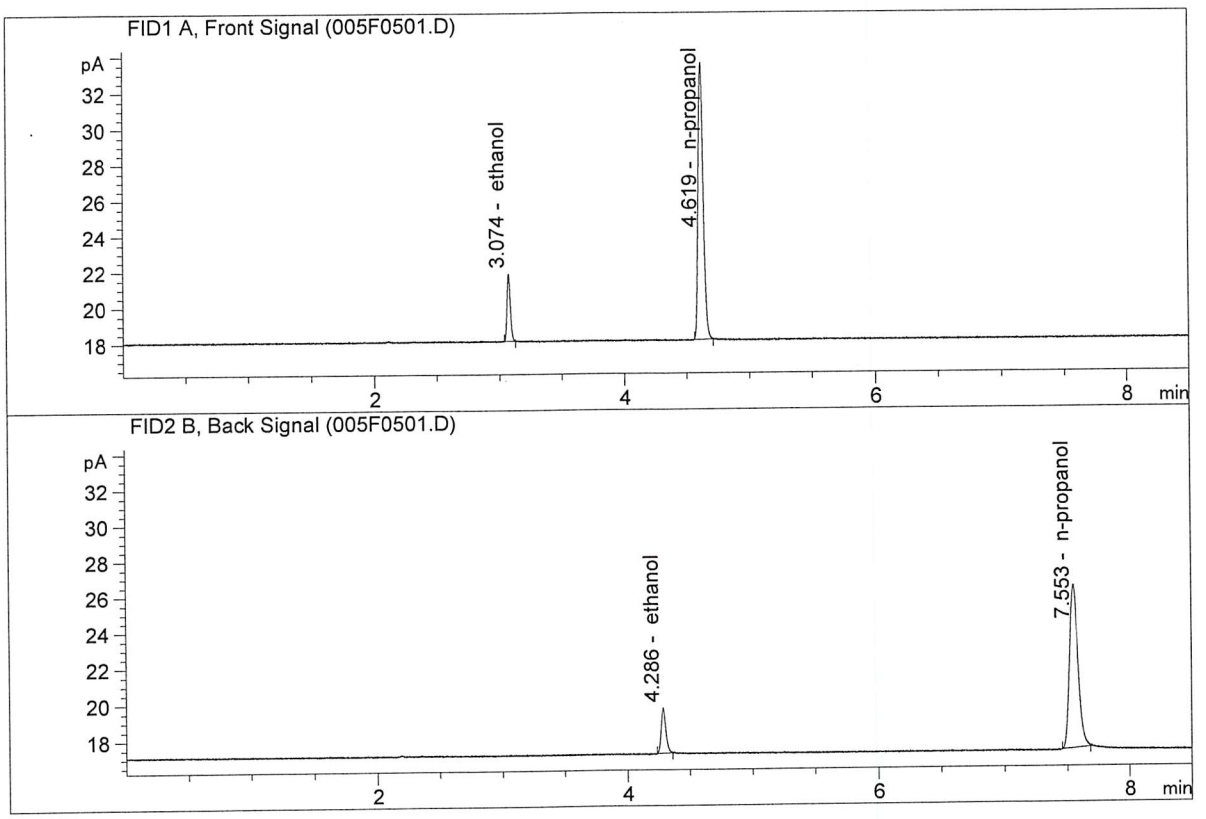
	Reported Result	
	0.081	

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-A
Laboratory : Meridian
Injection Date : Jul 7, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

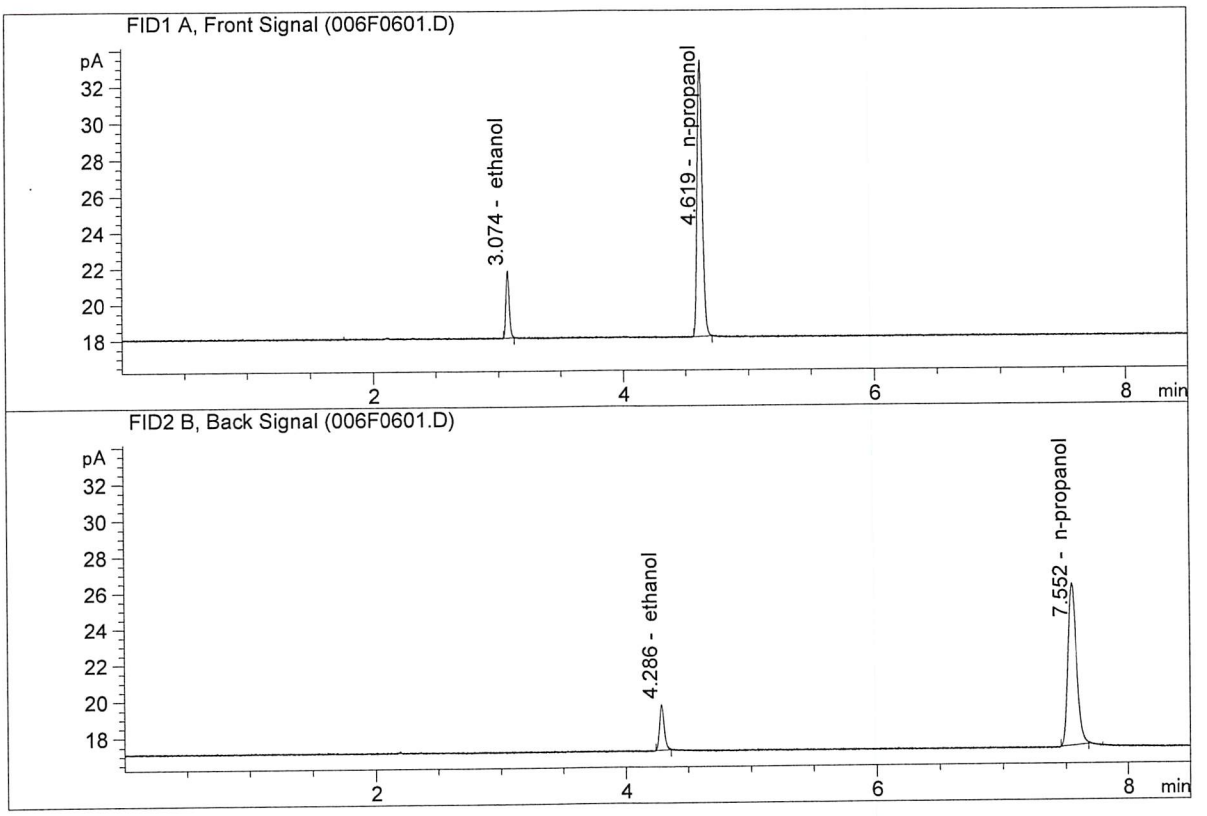


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.91927	0.0810	g/100cc
2.	Ethanol	Column 2:	6.85852	0.0817	g/100cc
3.	n-Propanol	Column 1:	43.87747	1.0000	g/100cc
4.	n-Propanol	Column 2:	43.79690	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-B
Laboratory : Meridian
Injection Date : Jul 7, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.86161	0.0811	g/100cc
2.	Ethanol	Column 2:	6.82504	0.0824	g/100cc
3.	n-Propanol	Column 1:	43.44284	1.0000	g/100cc
4.	n-Propanol	Column 2:	43.14574	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 07 Jul 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0781	0.0799	0.0018	0.0790	0.0789	
(g/100cc)	0.0781	0.0798	0.0017	0.0789		

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**

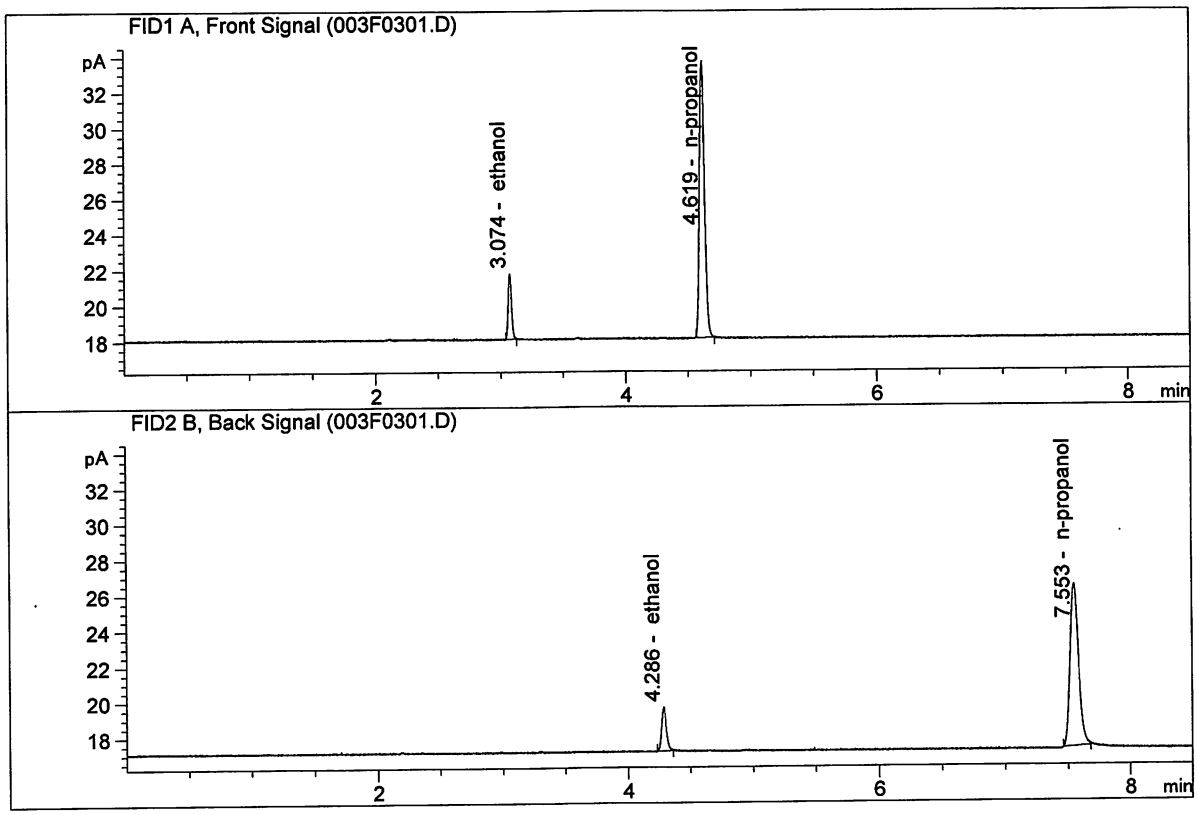
	Reported Result	
	0.078	

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
Laboratory : Meridian
Injection Date : Jul 7, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

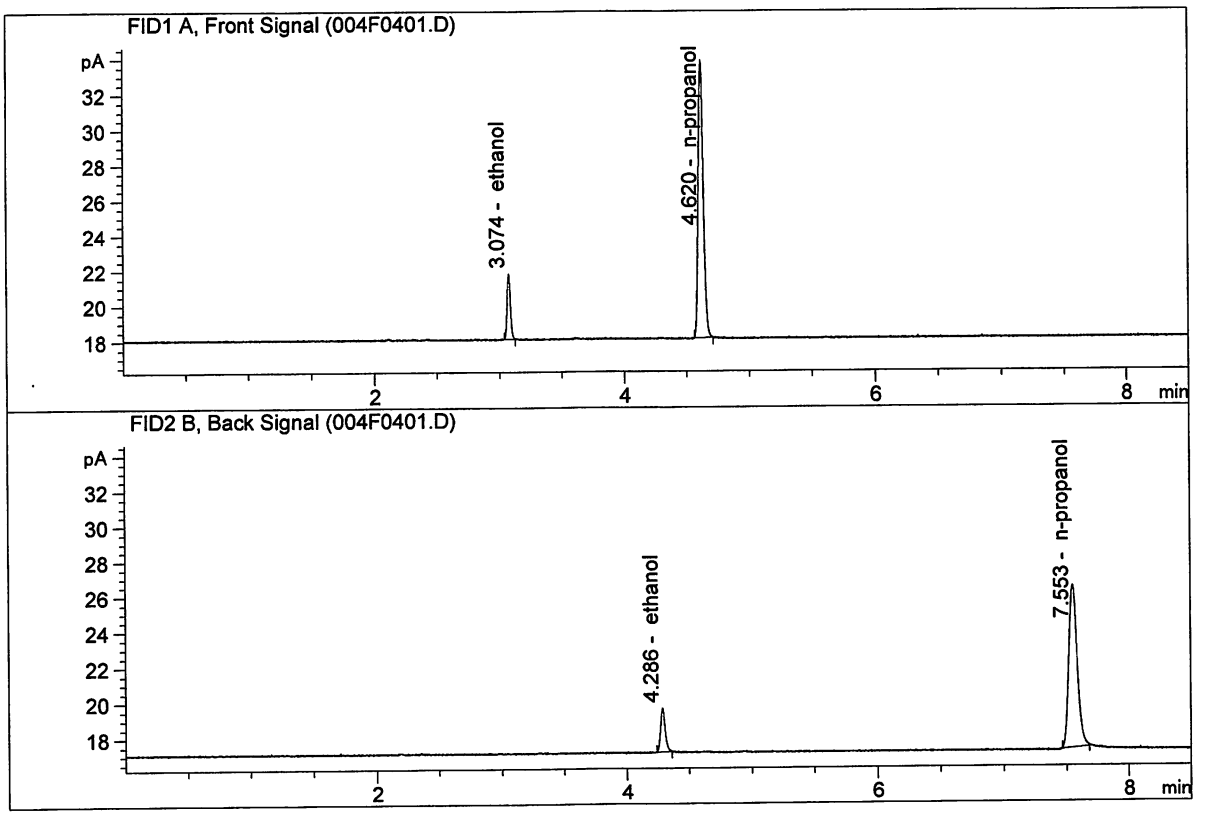


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.72883	0.0781	g/100cc
2.	Ethanol	Column 2:	6.73507	0.0799	g/100cc
3.	n-Propanol	Column 1:	44.26600	1.0000	g/100cc
4.	n-Propanol	Column 2:	44.03196	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
Laboratory : Meridian
Injection Date : Jul 7, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.77778	0.0781	g/100cc
2.	Ethanol	Column 2:	6.75958	0.0798	g/100cc
3.	n-Propanol	Column 1:	44.61417	1.0000	g/100cc
4.	n-Propanol	Column 2:	44.25889	1.0000	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Analysis Date(s): 08 Jul 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0792	0.0803	0.0011	0.0797	0.0795	
(g/100cc)	0.0784	0.0802	0.0018	0.0793		

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
0.079	**0.075**	**0.083**	**0.004**

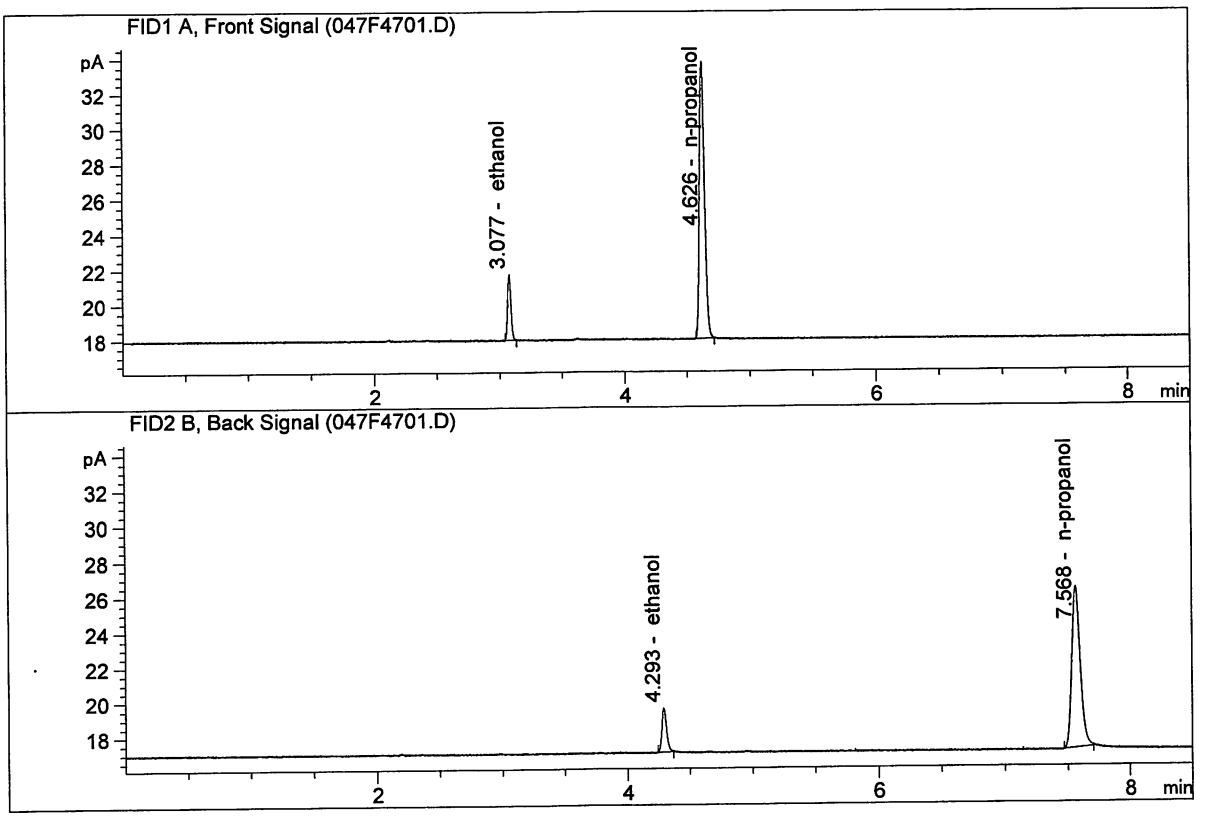
	Reported Result	
	0.079	

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : Jul 8, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

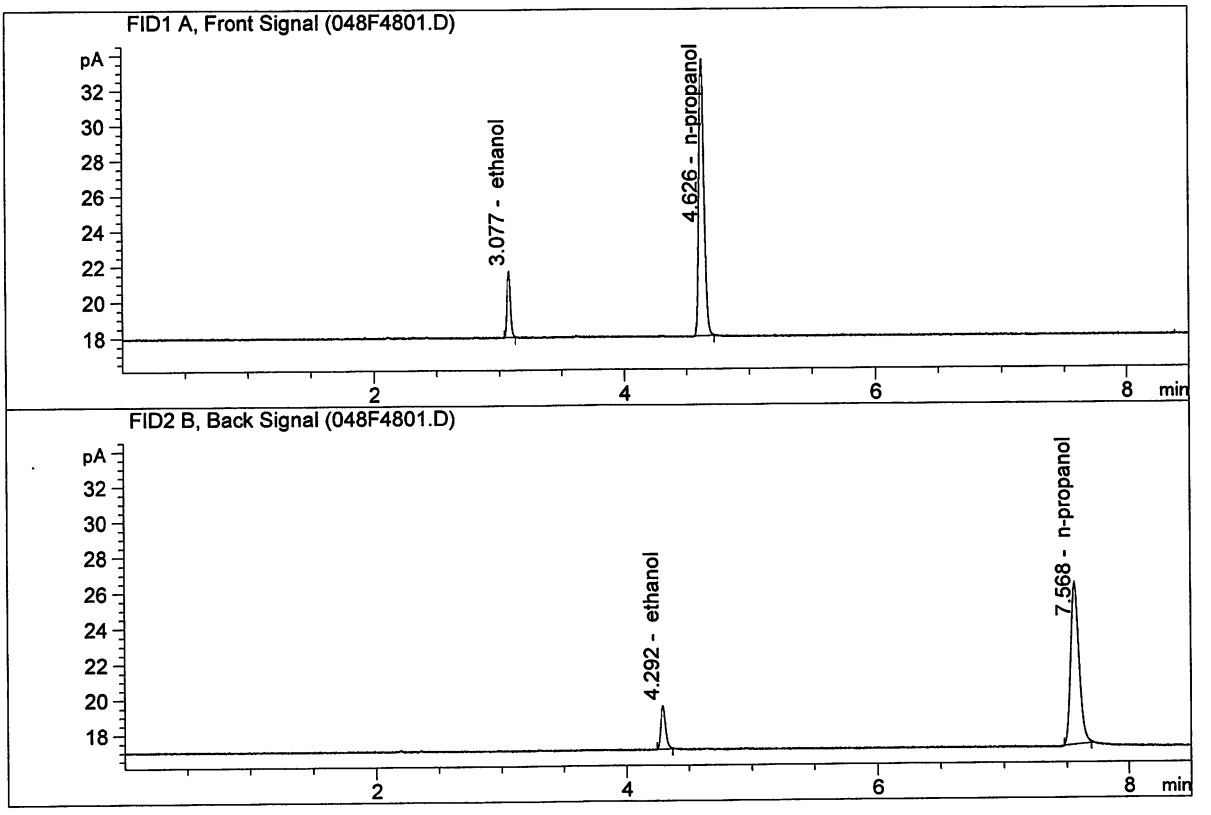


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.93363	0.0792	g/100cc
2.	Ethanol	Column 2:	6.91954	0.0803	g/100cc
3.	n-Propanol	Column 1:	44.97458	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.03716	1.0000	g/100cc

JU

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : Jul 8, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.81687	0.0784	g/100cc
2.	Ethanol	Column 2:	6.79732	0.0802	g/100cc
3.	n-Propanol	Column 1:	44.70679	1.0000	g/100cc
4.	n-Propanol	Column 2:	44.29332	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 07 Jul 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1981	0.1975	0.0006	0.1978	0.1983	
(g/100cc)	0.1988	0.1989	0.0001	0.1988		

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
0.198	**0.188**	**0.208**	**0.010**

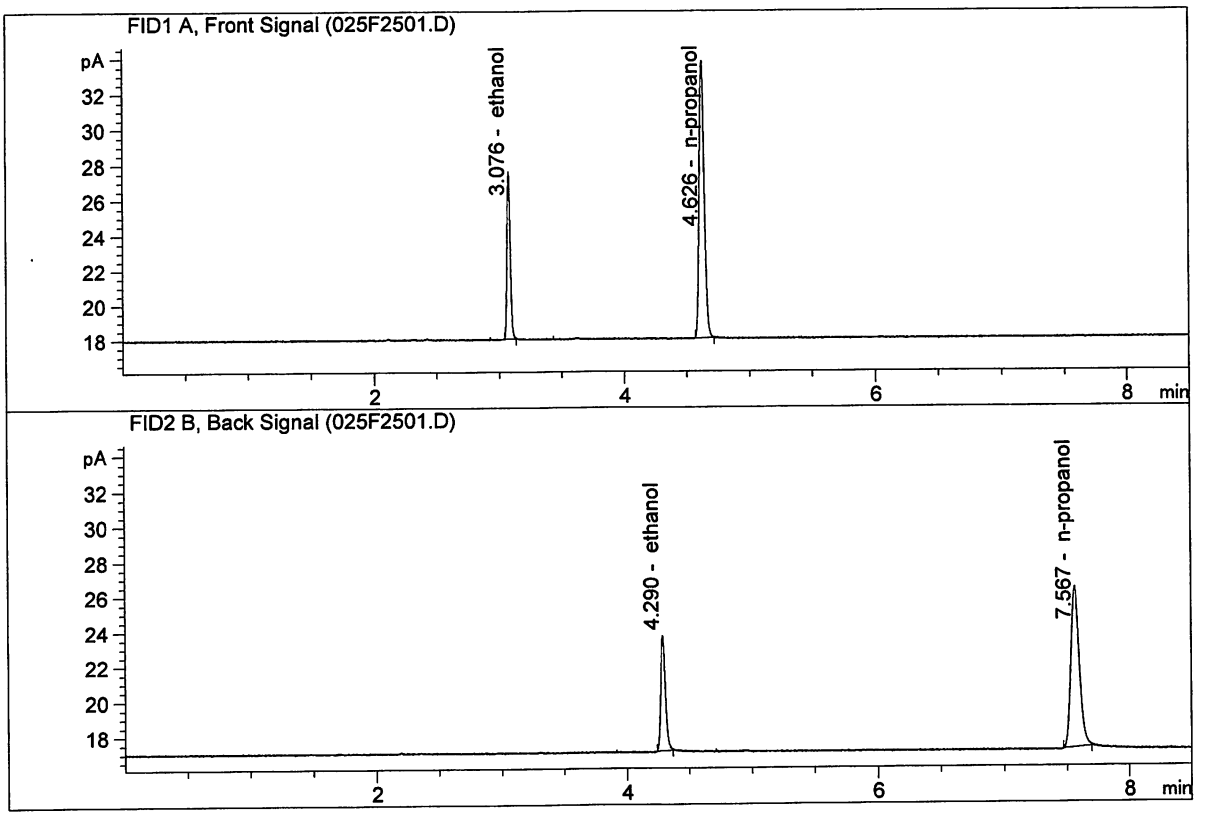
	Reported Result	
	0.198	

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A
Laboratory : Meridian
Injection Date : Jul 7, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

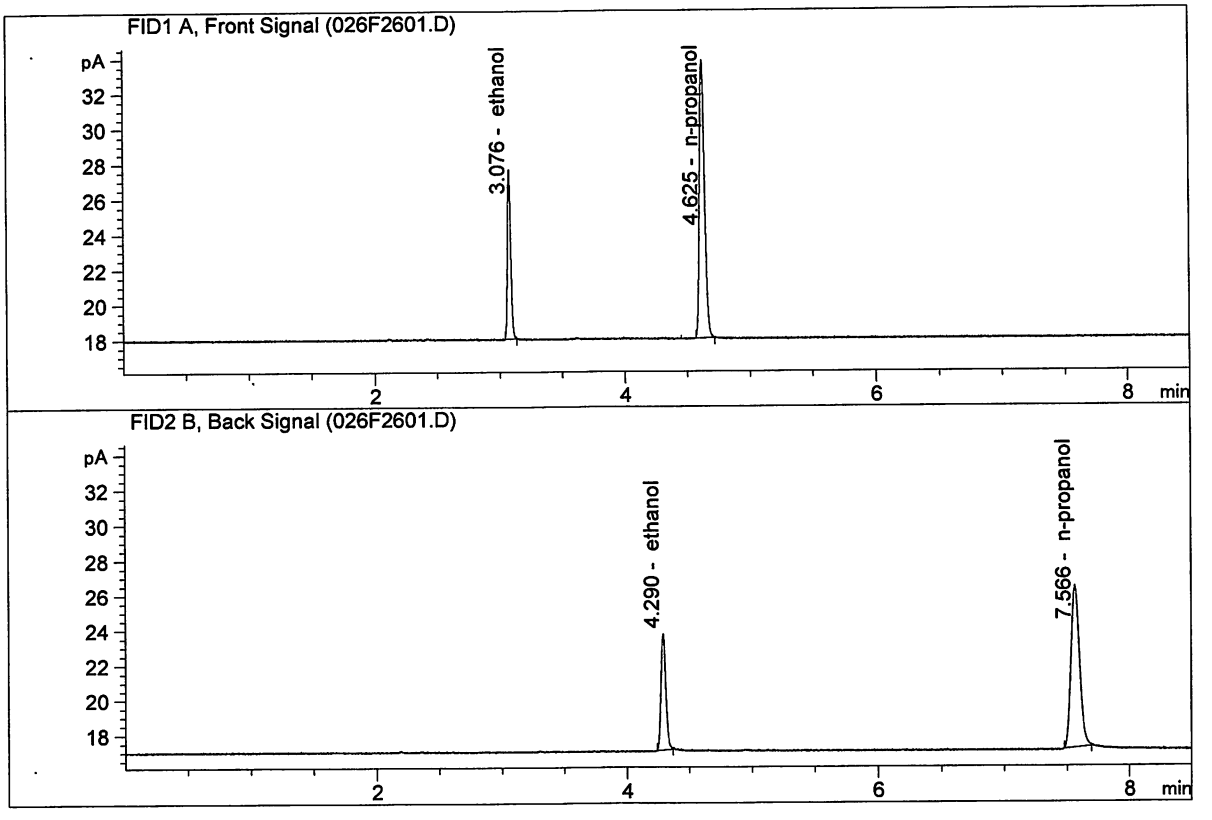


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.53158	0.1981	g/100cc
2.	Ethanol	Column 2:	17.77624	0.1975	g/100cc
3.	n-Propanol	Column 1:	44.92042	1.0000	g/100cc
4.	n-Propanol	Column 2:	44.59752	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
Laboratory : Meridian
Injection Date : Jul 7, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.58605	0.1988	g/100cc
2.	Ethanol	Column 2:	17.84334	0.1989	g/100cc
3.	n-Propanol	Column 1:	44.91678	1.0000	g/100cc
4.	n-Propanol	Column 2:	44.45234	1.0000	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-2 **Analysis Date(s): 08 Jul 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2071	0.2064	0.0007	0.2067	0.2063	
(g/100cc)	0.2058	0.2062	0.0004	0.2060		

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%**

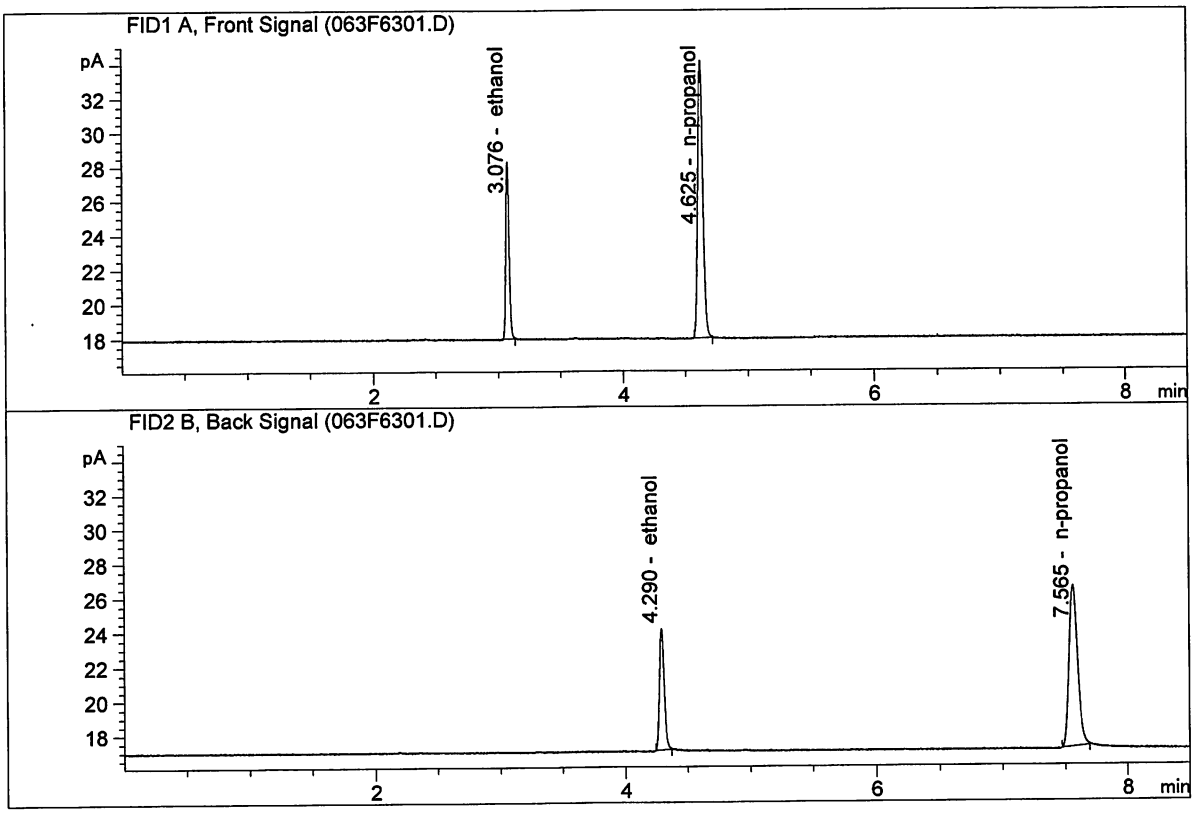
Overall Mean (g/100cc)	Low	High	5% of Mean
0.206	**0.195**	**0.217**	**0.011**

	Reported Result	
	0.206	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

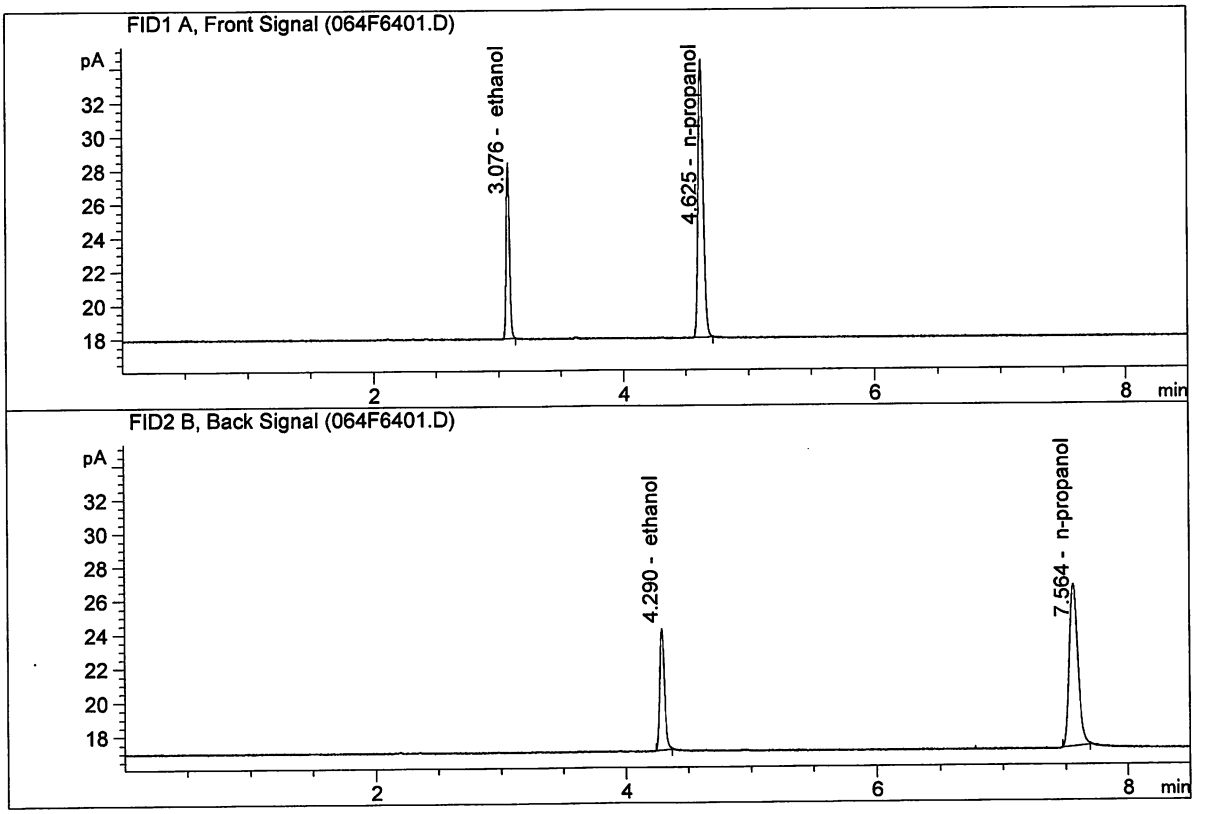
Sample Name : QC2-2-A
Laboratory : Meridian
Injection Date : Jul 8, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.72993	0.2071	g/100cc
2.	Ethanol	Column 2:	18.96293	0.2064	g/100cc
3.	n-Propanol	Column 1:	45.88873	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.46661	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-B
Laboratory : Meridian
Injection Date : Jul 8, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

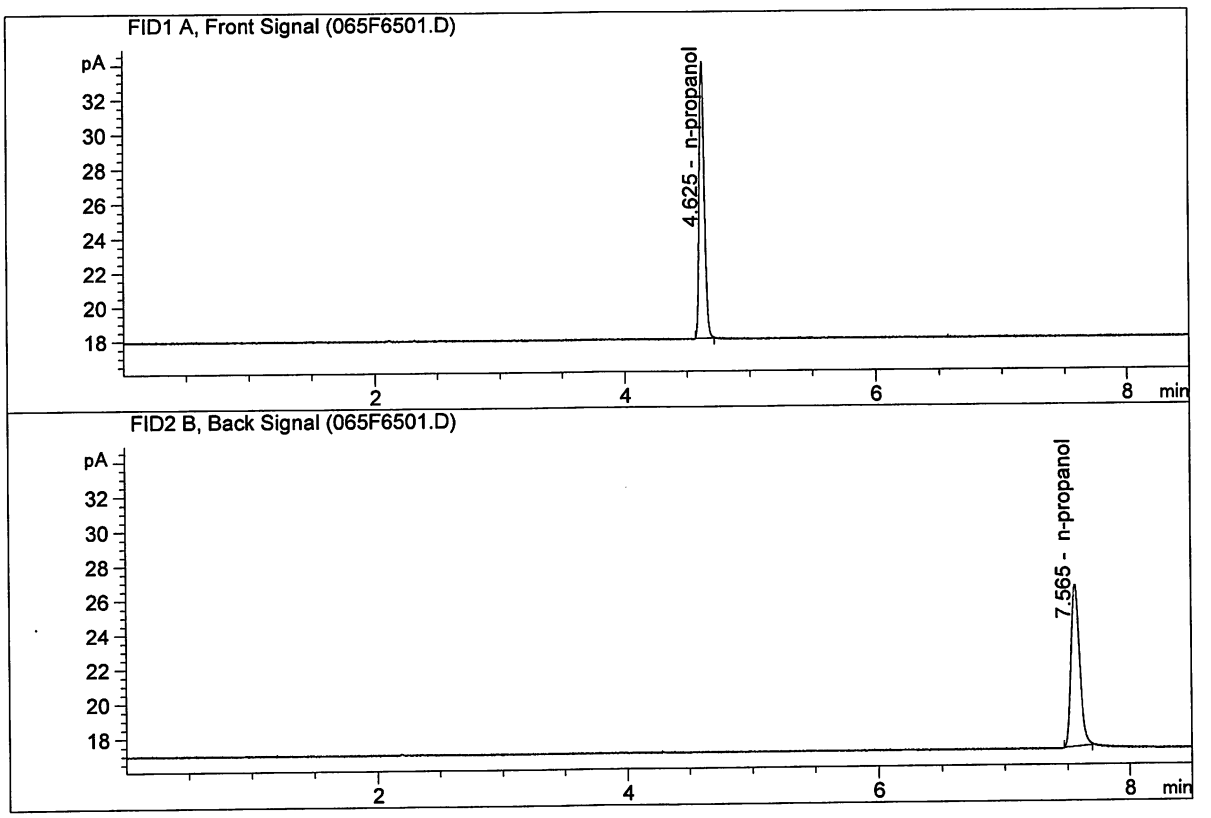


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.89350	0.2058	g/100cc
2.	Ethanol	Column 2:	19.21673	0.2062	g/100cc
3.	n-Propanol	Column 1:	46.59004	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.11418	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Jul 8, 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:	45.72387	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.42002	1.0000	g/100cc

JG

Sequence File C:\Chem32\...7_SAMPLES\07-07-17_SAMPLES 2017-07-07 15-55-03\07-07-17_SAMPLES.S

Sample Summary

Sequence table: C:\Chem32\1\Data\07-07-17_SAMPLES\07-07-17_SAMPLES 2017-07-07 15-55-03\07-07-17_SAMPLES.S
Data directory path: C:\Chem32\1\Data\07-07-17_SAMPLES\07-07-17_SAMPLES 2017-07-07 15-55-03\
Logbook: C:\Chem32\1\Data\07-07-17_SAMPLES\07-07-17_SAMPLES 2017-07-07 15-55-03\07-07-17_SAMPLES.LOG
Sequence start: 7/7/2017 4:09:51 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\07-07-17_SAMPLES\07-07-17_SAMPLES 2017-07-07 15-55-03\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	M2017-2951-2-A	-	1.0000	007F0701.D		2
8	8	1	M2017-2951-2-B	-	1.0000	008F0801.D		2
9	9	1	M2017-2973-1-A	-	1.0000	009F0901.D		4
10	10	1	M2017-2973-1-B	-	1.0000	010F1001.D		4
11	11	1	M2017-2974-1-A	-	1.0000	011F1101.D		4
12	12	1	M2017-2974-1-B	-	1.0000	012F1201.D		4
13	13	1	M2017-2981-1-A	-	1.0000	013F1301.D		2
14	14	1	M2017-2981-1-B	-	1.0000	014F1401.D		2
15	15	1	M2017-2982-1-A	-	1.0000	015F1501.D		4
16	16	1	M2017-2982-1-B	-	1.0000	016F1601.D		4
17	17	1	M2017-2983-1-A	-	1.0000	017F1701.D		4
18	18	1	M2017-2983-1-B	-	1.0000	018F1801.D		4
19	19	1	M2017-2987-1-A	-	1.0000	019F1901.D		2
20	20	1	M2017-2987-1-B	-	1.0000	020F2001.D		2
21	21	1	M2017-2988-1-A	-	1.0000	021F2101.D		2
22	22	1	M2017-2988-1-B	-	1.0000	022F2201.D		2
23	23	1	M2017-2988-2-A	-	1.0000	023F2301.D		2
24	24	1	M2017-2988-2-B	-	1.0000	024F2401.D		2
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	M2017-2989-1-A	-	1.0000	027F2701.D		2
28	28	1	M2017-2989-1-B	-	1.0000	028F2801.D		2
29	29	1	M2017-2989-2-A	-	1.0000	029F2901.D		2
30	30	1	M2017-2989-2-B	-	1.0000	030F3001.D		2
31	31	1	M2017-2990-1-A	-	1.0000	031F3101.D		2
32	32	1	M2017-2990-1-B	-	1.0000	032F3201.D		2
33	33	1	M2017-2990-2-A	-	1.0000	033F3301.D		2
34	34	1	M2017-2990-2-B	-	1.0000	034F3401.D		2
35	35	1	M2017-2991-1-A	-	1.0000	035F3501.D		4
36	36	1	M2017-2991-1-B	-	1.0000	036F3601.D		4
37	37	1	M2017-3016-1-A	-	1.0000	037F3701.D		2
38	38	1	M2017-3016-1-B	-	1.0000	038F3801.D		2
39	39	1	M2017-3016-2-A	-	1.0000	039F3901.D		2
40	40	1	M2017-3016-2-B	-	1.0000	040F4001.D		2
41	41	1	M2017-3017-1-A	-	1.0000	041F4101.D		4
42	42	1	M2017-3017-1-B	-	1.0000	042F4201.D		4
43	43	1	M2017-3019-1-A	-	1.0000	043F4301.D		4

JC

Sequence File C:\Chem32\...7_SAMPLES\07-07-17_SAMPLES 2017-07-07 15-55-03\07-07-17_SAMPLES.S

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
44	44	1	M2017-3019-1-B	-	1.0000	044F4401.D	4
45	45	1	M2017-3021-1-A	-	1.0000	045F4501.D	2
46	46	1	M2017-3021-1-B	-	1.0000	046F4601.D	2
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	M2017-3022-1-A	-	1.0000	049F4901.D	4
50	50	1	M2017-3022-1-B	-	1.0000	050F5001.D	4
51	51	1	M2017-3023-1-A	-	1.0000	051F5101.D	4
52	52	1	M2017-3023-1-B	-	1.0000	052F5201.D	4
53	53	1	M2017-3024-1-A	-	1.0000	053F5301.D	2
54	54	1	M2017-3024-1-B	-	1.0000	054F5401.D	2
55	55	1	M2017-3025-1-A	-	1.0000	055F5501.D	4
56	56	1	M2017-3025-1-B	-	1.0000	056F5601.D	4
57	57	1	M2017-3050-1-A	-	1.0000	057F5701.D	4
58	58	1	M2017-3050-1-B	-	1.0000	058F5801.D	4
59	59	1	M2017-3056-1-A	-	1.0000	059F5901.D	4
60	60	1	M2017-3056-1-B	-	1.0000	060F6001.D	4
61	61	1	P2017-1511-~~1-A~~ JG -2-A	-	1.0000	061F6101.D	2
62	62	1	P2017-1511-~~1-B~~ JL -2-B	-	1.0000	062F6201.D	2
63	63	1	QC2-2-A	-	1.0000	063F6301.D	4
64	64	1	QC2-2-B	-	1.0000	064F6401.D	4
65	65	1	INTERNAL STD BLK	-	1.0000	065F6501.D	2

Method file name: C:\Chem32\1\Data\07-07-17_SAMPLES\07-07-17_SAMPLES 2017-07-07 15-55-03 \SHUTDOWN.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
66	66	1	EMPTY	-	1.0000	066F6601.D	0