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): 05/31/2017-06/01/2017**

Calibration Date: 5/31/2017

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-18	1407031	0.0780	0.0702 - 0.0858	0.0787 g/100cc
					0.0806 g/100cc
					g/100cc
Level 2	Jul-18	1407032	0.2020	0.1818 - 0.2222	0.1956 g/100cc
					0.2017 g/100cc

Multi-Component Mixture	**Exp: Oct 2019**	**Lot #**	FN09231404		OK
Curve Fit:		**Column 1**	0.99998	**Column 2**	0.99984

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	0.0532	0.0024	0.052
0.080			0.080	0.072 - 0.088			0	#DIV/0!
0.100	Jun-20	FN06181501	0.100	0.090 - 0.110	0.1003	0.1005	0.0002	0.1004
0.200	Oct-20	FN07201502	0.200	0.180 - 0.220	0.1992	0.1966	0.0026	0.1979
0.300	Feb-21	FN02121601	0.300	0.270 - 0.330	0.2988	0.2968	0.002	0.2978
0.400			0.400	0.360 - 0.440			0	#DIV/0!
0.500	Aug-19	FN07031402	0.500	0.450 - 0.550	0.5009	0.5028	0.0019	0.5018

Aqueous Controls					
Control level	**Expiration**	**Cerilliant Lot #**	**Target Value**	**Acceptable Range**	**Overall Results**
0.080	Nov-20	FN10281510	0.08000	0.076 - 0.084	0.083 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

JG

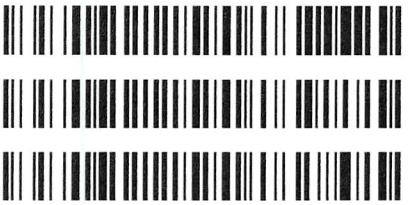
Worklist: 1744

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2017-2277	1	85123	Alcohol Analysis
M2017-2278	1	85124	Alcohol Analysis
M2017-2328	1	85283	Alcohol Analysis
M2017-2339	1	85333	Alcohol Analysis
M2017-2340	1	85338	Alcohol Analysis
M2017-2341	1	85339	Alcohol Analysis
M2017-2342	1	85340	Alcohol Analysis
M2017-2347	1	85352	Alcohol Analysis
M2017-2363	1	85759	Alcohol Analysis
M2017-2363	2	85760	Alcohol Analysis
M2017-2372	1	85398	Alcohol Analysis
M2017-2373	1	85399	Alcohol Analysis
M2017-2374	1	85403	Alcohol Analysis
M2017-2375	1	85404	Alcohol Analysis
M2017-2377	1	85409	Alcohol Analysis
M2017-2381	1	85471	Alcohol Analysis
M2017-2384	1	85474	Alcohol Analysis
M2017-2389	1	85526	Alcohol Analysis
M2017-2407	1	85578	Alcohol Analysis
M2017-2410	3	85766	Alcohol Analysis
M2017-2413	1	85658	Alcohol Analysis
M2017-2414	1	85662	Alcohol Analysis
M2017-2415	1	85666	Alcohol Analysis

JG

Worklist: 1744

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2017-2418	1	85761	Alcohol Analysis
M2017-2419	1	85762	Alcohol Analysis
M2017-2420	1	85767	Alcohol Analysis



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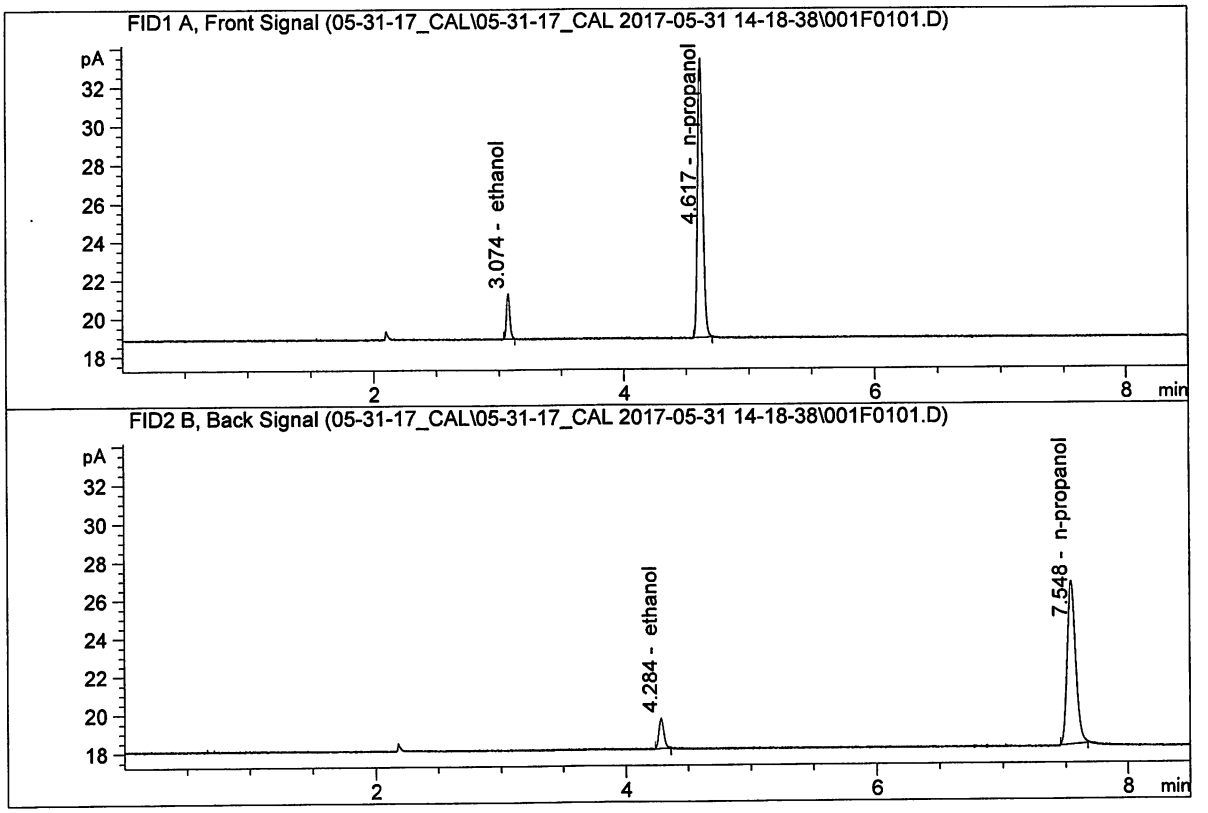
ISP Forensic Services Blood Alcohol Report

Sample Name : 0.050 FN06231406
Laboratory : Meridian
Injection Date : May 31, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	4.38233	0.0508	g/100cc
2.	Ethanol	Column 2:	4.33817	0.0532	g/100cc
3.	n-Propanol	Column 1:	41.34468	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.26481	1.0000	g/100cc

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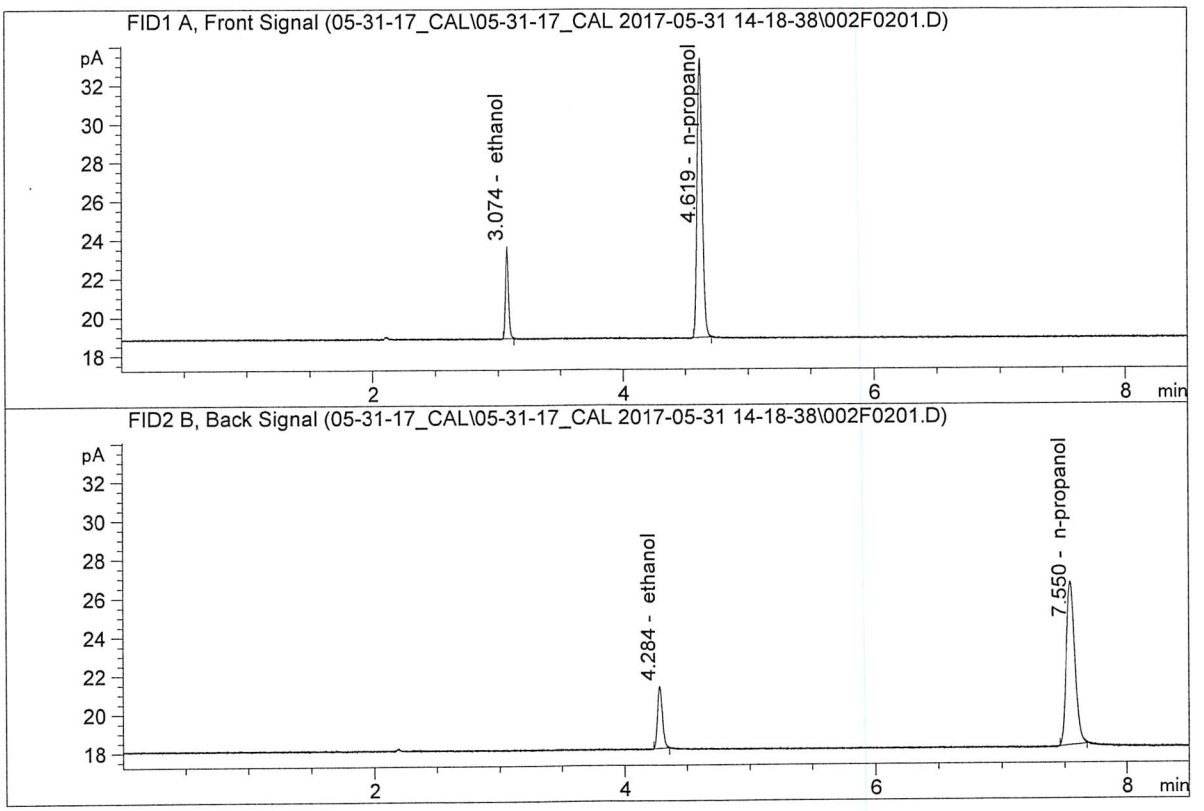
ISP Forensic Services Blood Alcohol Report

Sample Name : 0.100 FN06181501
Laboratory : Meridian
Injection Date : May 31, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

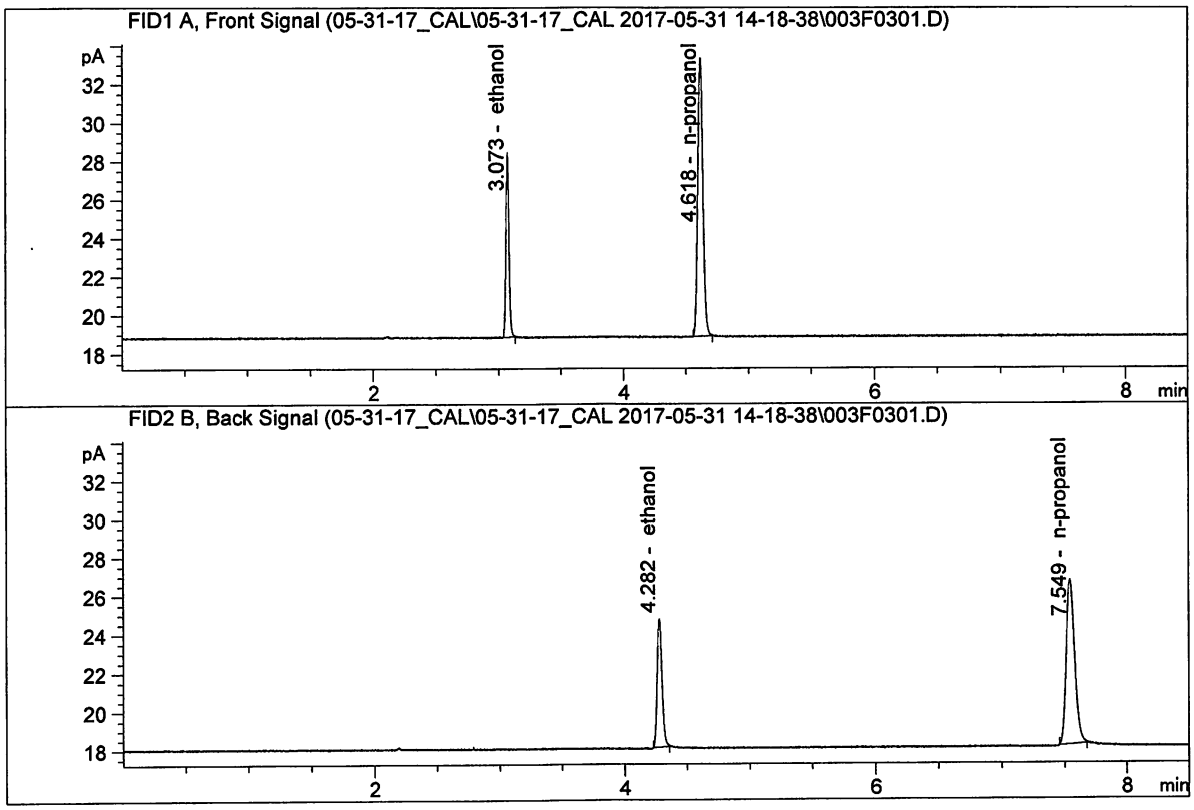


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.83756	0.1003	g/100cc
2.	Ethanol	Column 2:	8.74374	0.1005	g/100cc
3.	n-Propanol	Column 1:	41.26591	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.96438	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.200 FN07201502
Laboratory : Meridian
Injection Date : May 31, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.76173	0.1992	g/100cc
2.	Ethanol	Column 2:	17.88181	0.1966	g/100cc
3.	n-Propanol	Column 1:	41.31436	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.20905	1.0000	g/100cc

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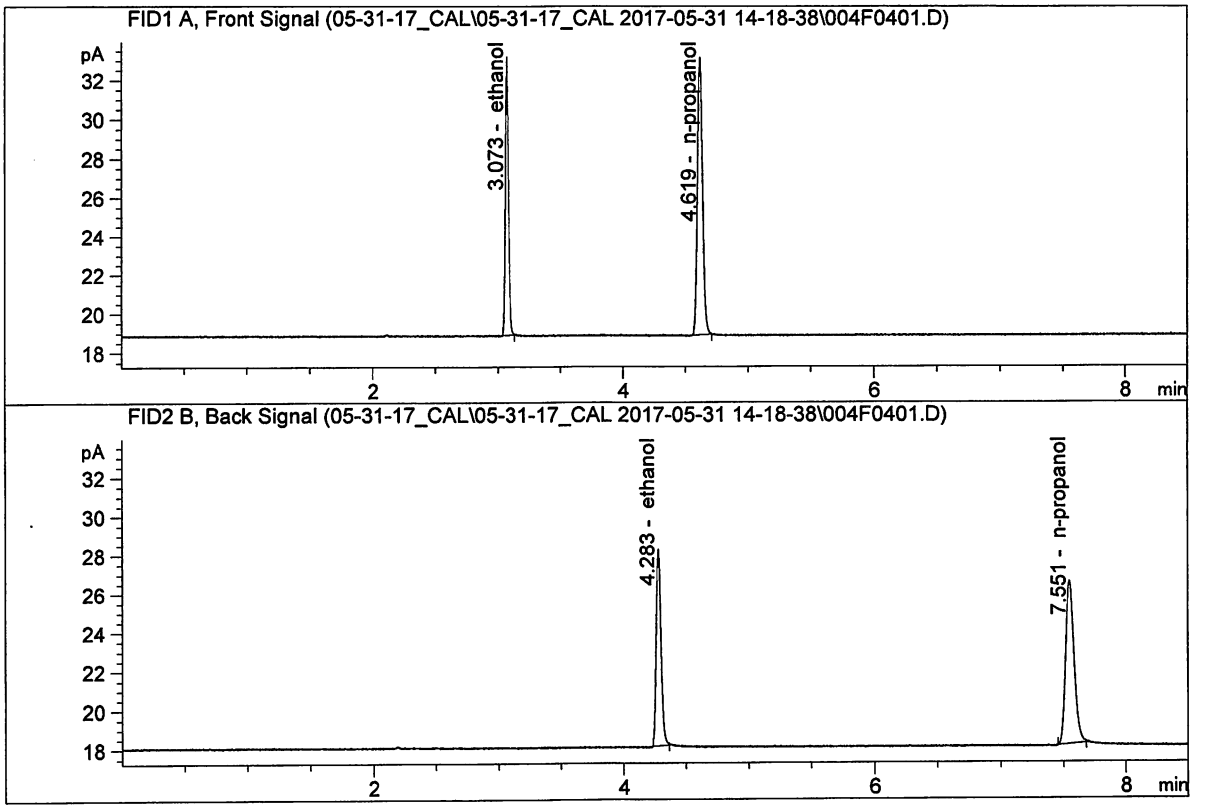
ISP Forensic Services Blood Alcohol Report

Sample Name : 0.300 FN02121601
Laboratory : Meridian
Injection Date : May 31, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	26.33768	0.2988	g/100cc
2.	Ethanol	Column 2:	26.98684	0.2968	g/100cc
3.	n-Propanol	Column 1:	40.68045	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.66084	1.0000	g/100cc

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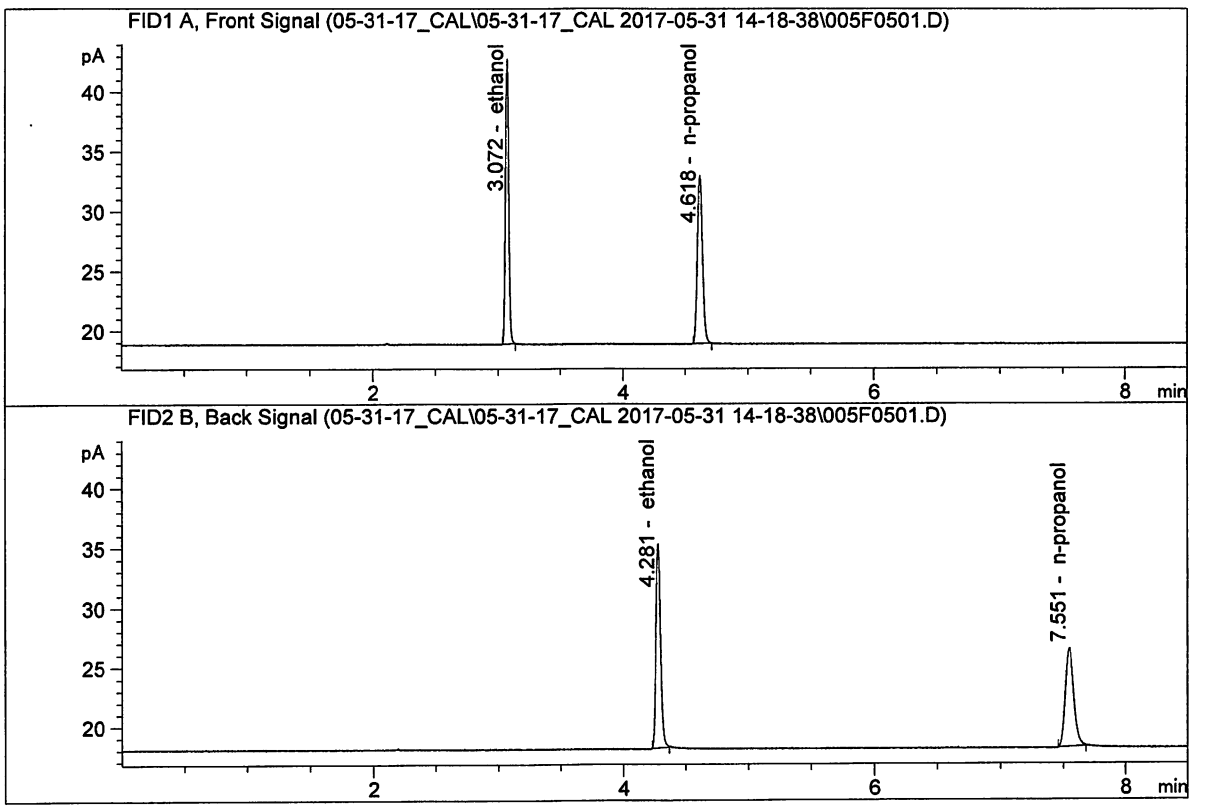
ISP Forensic Services Blood Alcohol Report

Sample Name : 0.500 FN07031402
Laboratory : Meridian
Injection Date : May 31, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	43.86459	0.5009	g/100cc
2.	Ethanol	Column 2:	45.52216	0.5028	g/100cc
3.	n-Propanol	Column 1:	40.28580	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.06374	1.0000	g/100cc

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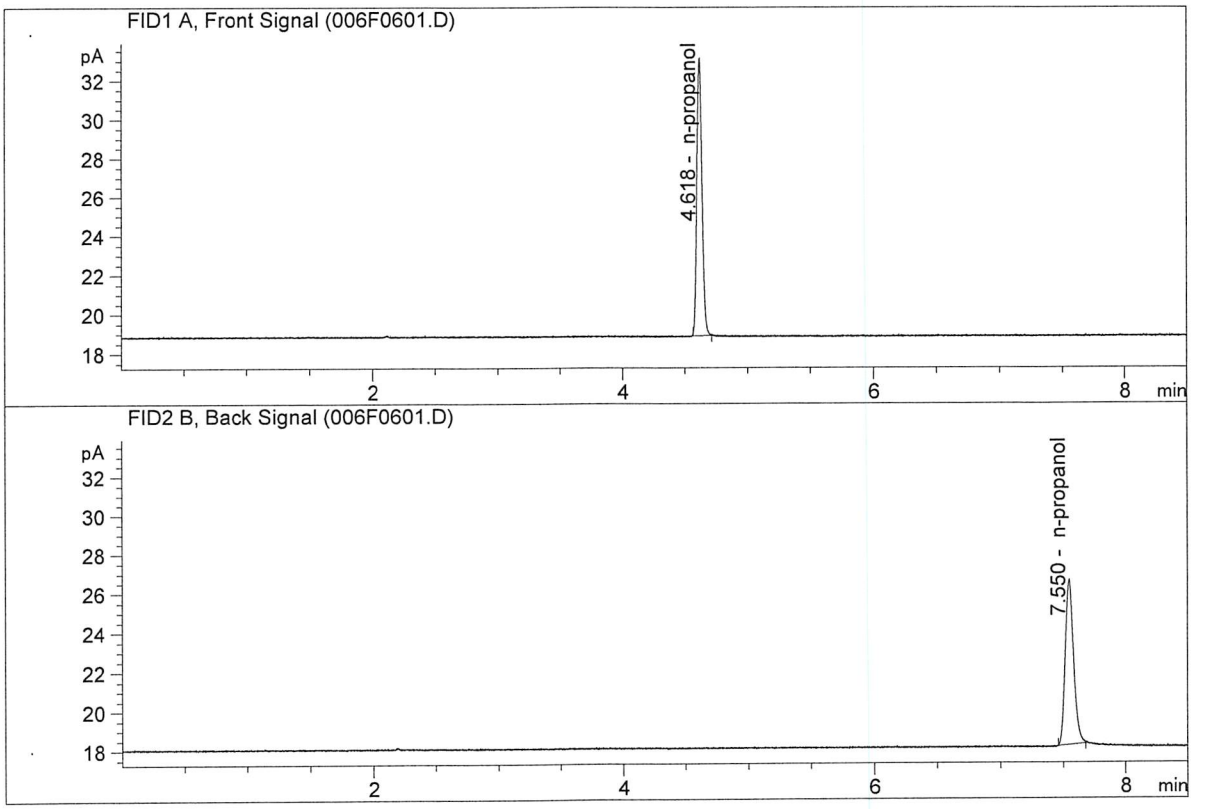
ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STANDARD BLANK
Laboratory : Meridian
Injection Date : May 31, 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:	40.79368	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.67815	1.0000	g/100cc

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Sequence File C:\Chem32\1\Data\05-31-17_CAL\05-31-17_CAL 2017-05-31 14-18-38\05-31-17_CAL.S

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

Sequence table: C:\Chem32\1\Data\05-31-17_CAL\05-31-17_CAL 2017-05-31 14-18-38\05-31-17_CAL.S
Data directory path: C:\Chem32\1\Data\05-31-17_CAL\05-31-17_CAL 2017-05-31 14-18-38\
Logbook: C:\Chem32\1\Data\05-31-17_CAL\05-31-17_CAL 2017-05-31 14-18-38\05-31-17_CAL.LOG
Sequence start: 5/31/2017 2:33:16 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\05-31-17_CAL\05-31-17_CAL 2017-05-31 14-18-38\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

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Calibration Table

General Calibration Setting

Calib. Data Modified : Wednesday, May 31, 2017 3:23:57 PM
Signals calculated separately : No

Rel. Reference Window : 0.000 %
Abs. Reference Window : 0.100 min
Rel. Non-ref. Window : 0.000 %
Abs. Non-ref. Window : 0.100 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Default Sample ISTD Information (if not set in sample table):

ISTD #	ISTD Amount [g/100cc]	Name
1	1.00000	n-propanol
2	1.00000	n-propanol

Signal Details

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

Overview Table

RT	Sig	Lvl	Amount [g/100cc]	Area	Rsp.Factor	Ref	ISTD	#	Compound
2.586	1	1	1.00000	3.69669	2.70512e-1	No	No	1	methanol
3.072	1	1	5.00000e-2	4.38233	1.14095e-2	No	No	1	ethanol
		2	1.00000e-1	8.83756	1.13153e-2				
		3	2.00000e-1	17.76173	1.12602e-2				
		4	3.00000e-1	26.33768	1.13905e-2				
		5	5.00000e-1	43.86459	1.13987e-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	4.33817	1.15256e-2	No	No	2	ethanol
		2	1.00000e-1	8.74374	1.14368e-2				
		3	2.00000e-1	17.88181	1.11845e-2				
		4	3.00000e-1	26.98684	1.11165e-2				
		5	5.00000e-1	45.52216	1.09837e-2				
4.308	1	1	1.00000	6.49940	1.53860e-1	No	No	1	acetone
4.618	1	1	1.00000	41.34468	2.41869e-2	No	Yes	1	n-propanol
		2	1.00000	41.26591	2.42331e-2				
		3	1.00000	41.31436	2.42047e-2				
		4	1.00000	40.68045	2.45818e-2				
		5	1.00000	40.28580	2.48226e-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	41.26481	2.42337e-2	No	Yes	2	n-propanol
		2	1.00000	40.96438	2.44115e-2				
		3	1.00000	41.20905	2.42665e-2				
		4	1.00000	40.66084	2.45937e-2				
		5	1.00000	40.06374	2.49602e-2				

Peak Sum Table

No Entries in table

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1 Warnings or Errors :

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

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Calibration Curves

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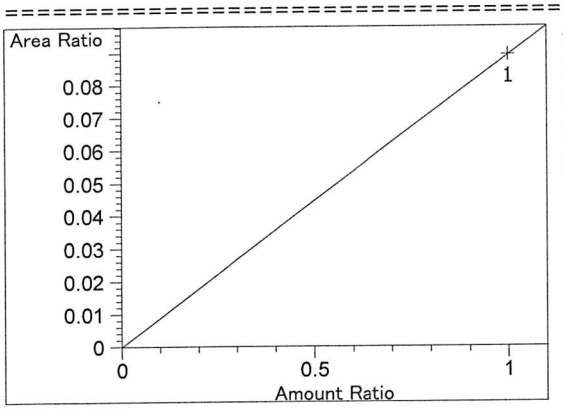
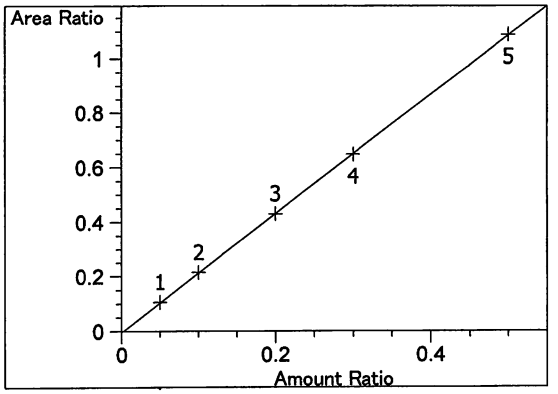
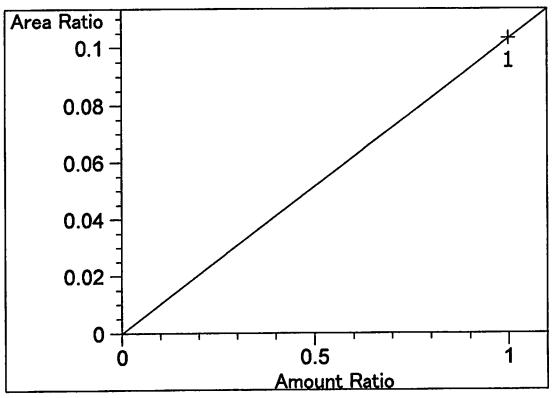


methanol at exp. RT: 2.586
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.94116e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio

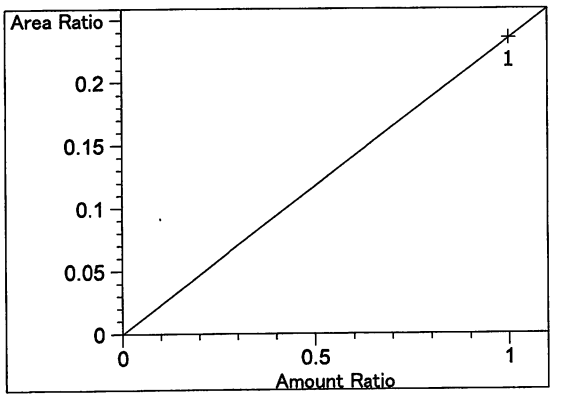
JC



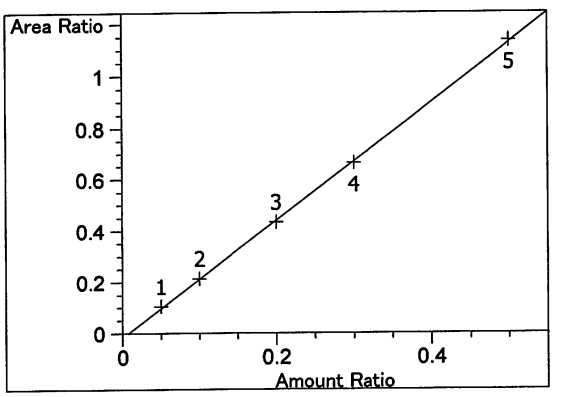
ethanol at exp. RT: 3.072
FID1 A, Front Signal
Correlation: 0.99998
Residual Std. Dev.: 0.00247
Formula: y = mx + b
m: 2.18350
b: -4.93754e-3
x: Amount Ratio
y: Area Ratio



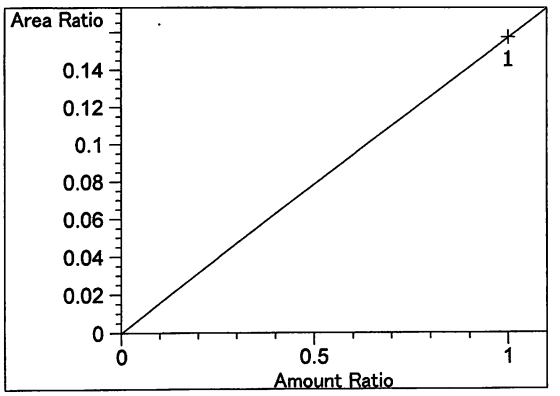
methanol at exp. RT: 3.388
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.03251e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



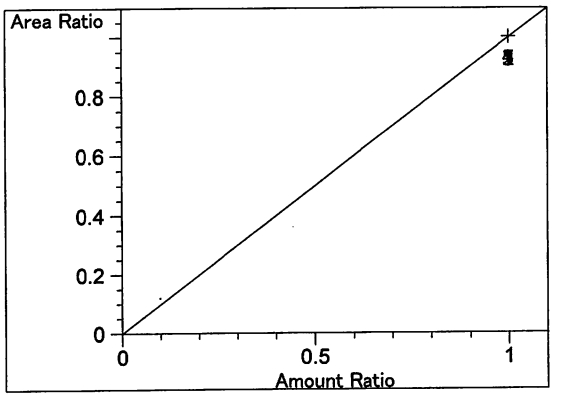
isopropyl alcohol at exp. RT: 3.628
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 2.35352e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



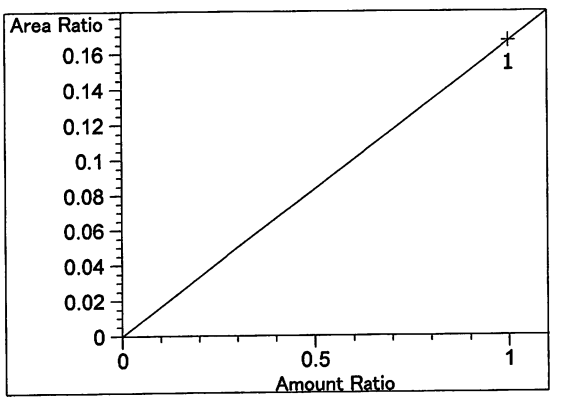
ethanol at exp. RT: 4.281
FID2 B, Back Signal
Correlation: 0.99984
Residual Std. Dev.: 0.00843
Formula: y = mx + b
m: 2.29340
b: -1.69916e-2
x: Amount Ratio
y: Area Ratio



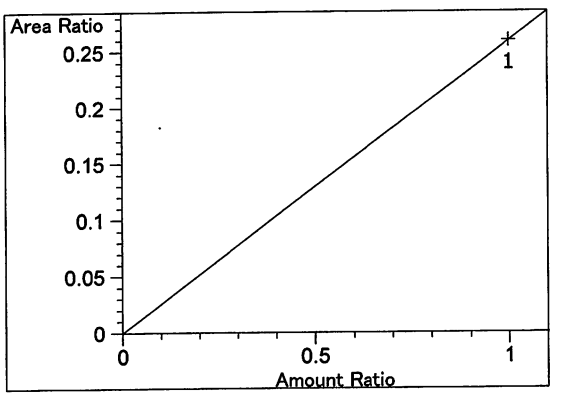
acetone at exp. RT: 4.308
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.57200e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



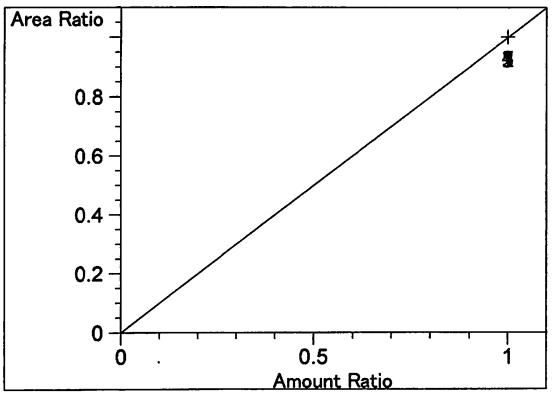
n-propanol at exp. RT: 4.618
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio



acetone at exp. RT: 4.661
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.67043e-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: 2.59456e-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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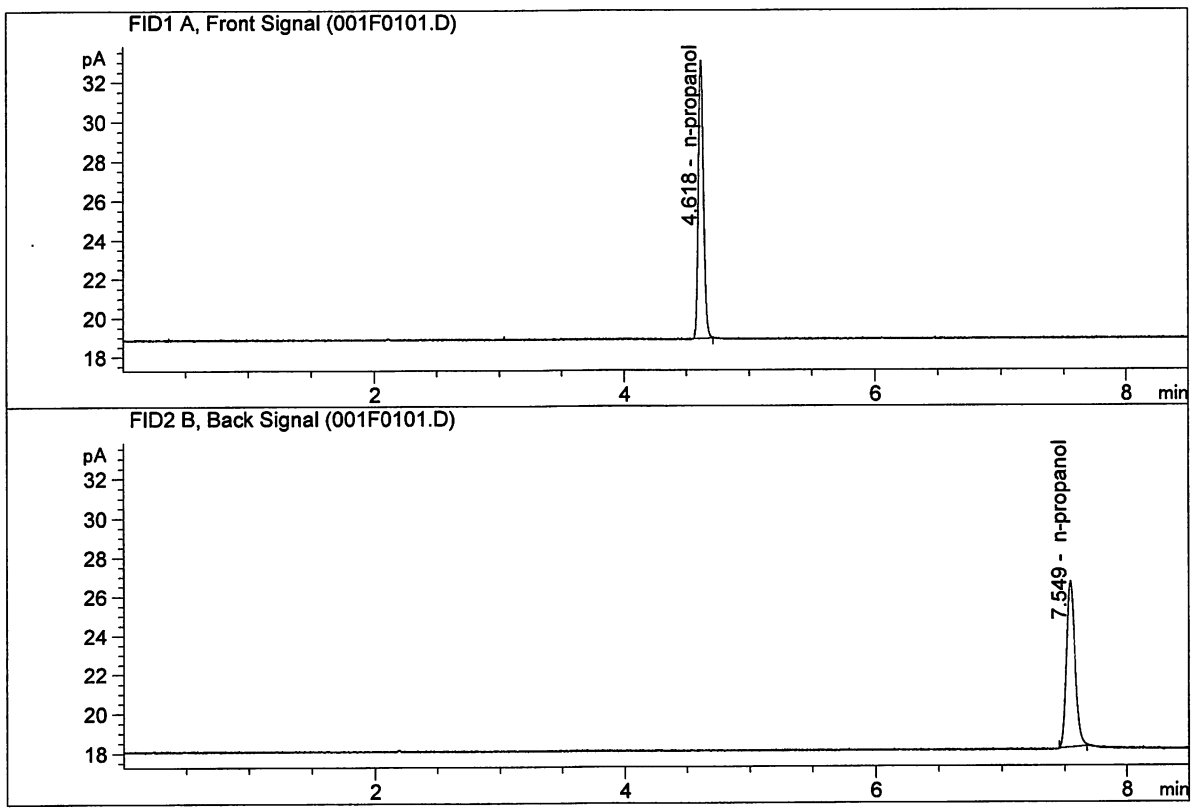
ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : May 31, 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:	40.45987	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.86042	1.0000	g/100cc

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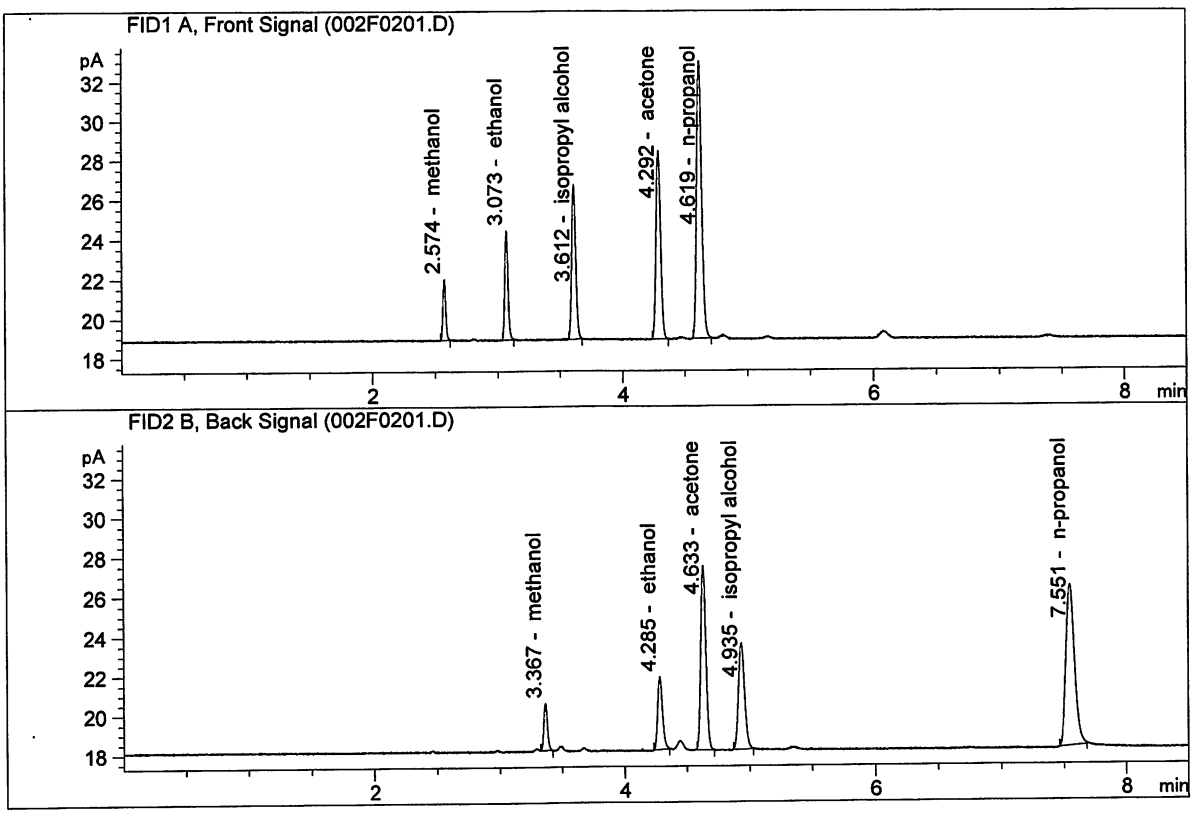
ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN09231404
Laboratory : Meridian
Injection Date : May 31, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	9.87829	0.1160	g/100cc
2.	Ethanol	Column 2:	9.89097	0.1160	g/100cc
3.	n-Propanol	Column 1:	39.76512	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.70507	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 31 May 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0778	0.0794	0.0016	0.0786	0.0787	
(g/100cc)	0.0778	0.0798	0.0020	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**

Reported Result

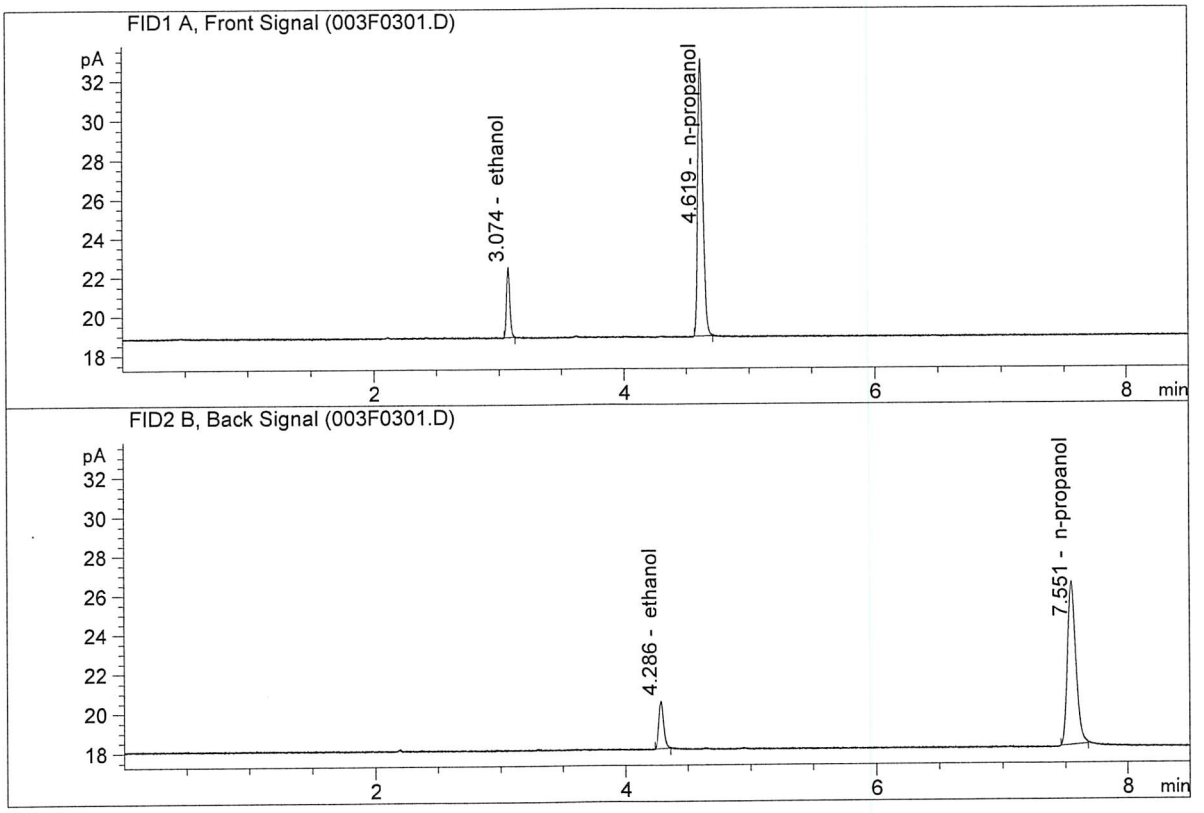
0.078

Calibration and control data are stored centrally.

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
Laboratory : Meridian
Injection Date : May 31, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

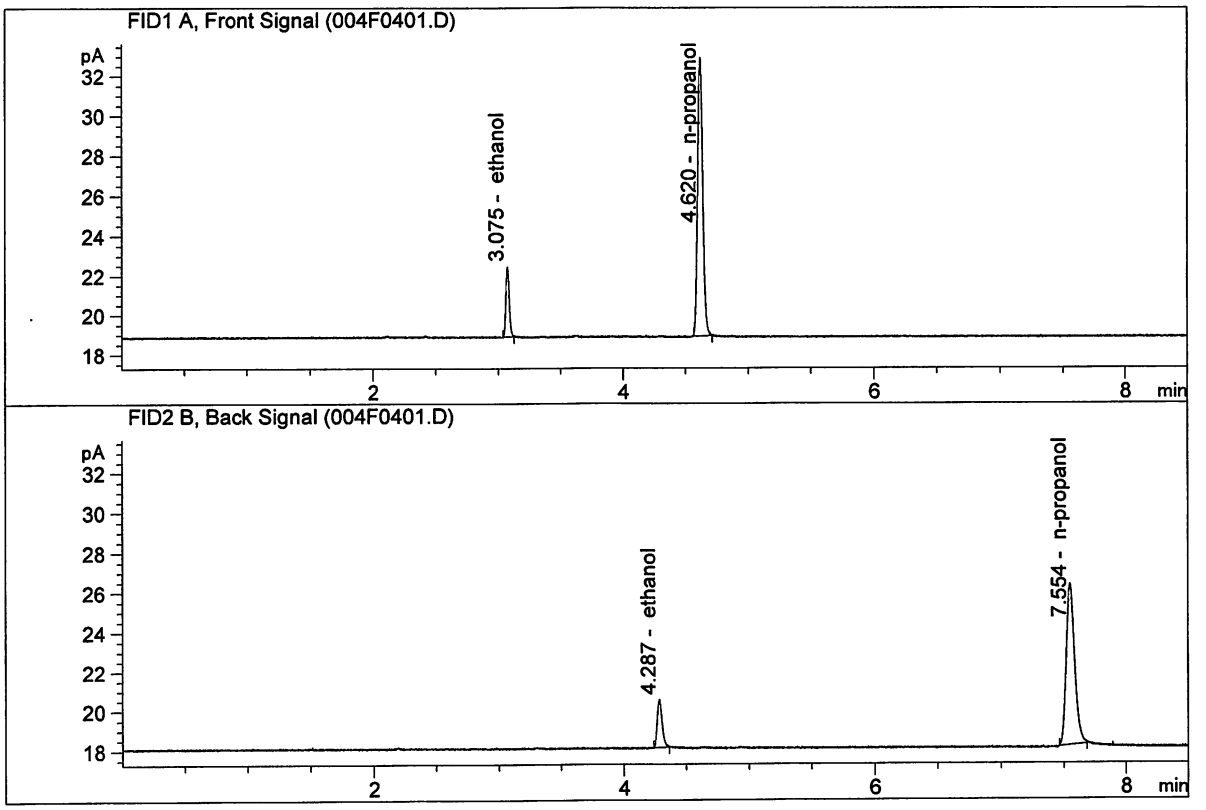


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.64757	0.0778	g/100cc
2.	Ethanol	Column 2:	6.61944	0.0794	g/100cc
3.	n-Propanol	Column 1:	40.32441	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.10760	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
Laboratory : Meridian
Injection Date : May 31, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.59272	0.0778	g/100cc
2.	Ethanol	Column 2:	6.58481	0.0798	g/100cc
3.	n-Propanol	Column 1:	39.94536	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.65366	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN10281510 **Analysis Date(s): 31 May 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0836	0.0862	0.0026	0.0849	0.0831	
(g/100cc)	0.0809	0.0820	0.0011	0.0814		

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
0.083	**0.078**	**0.088**	**0.005**

Reported Result

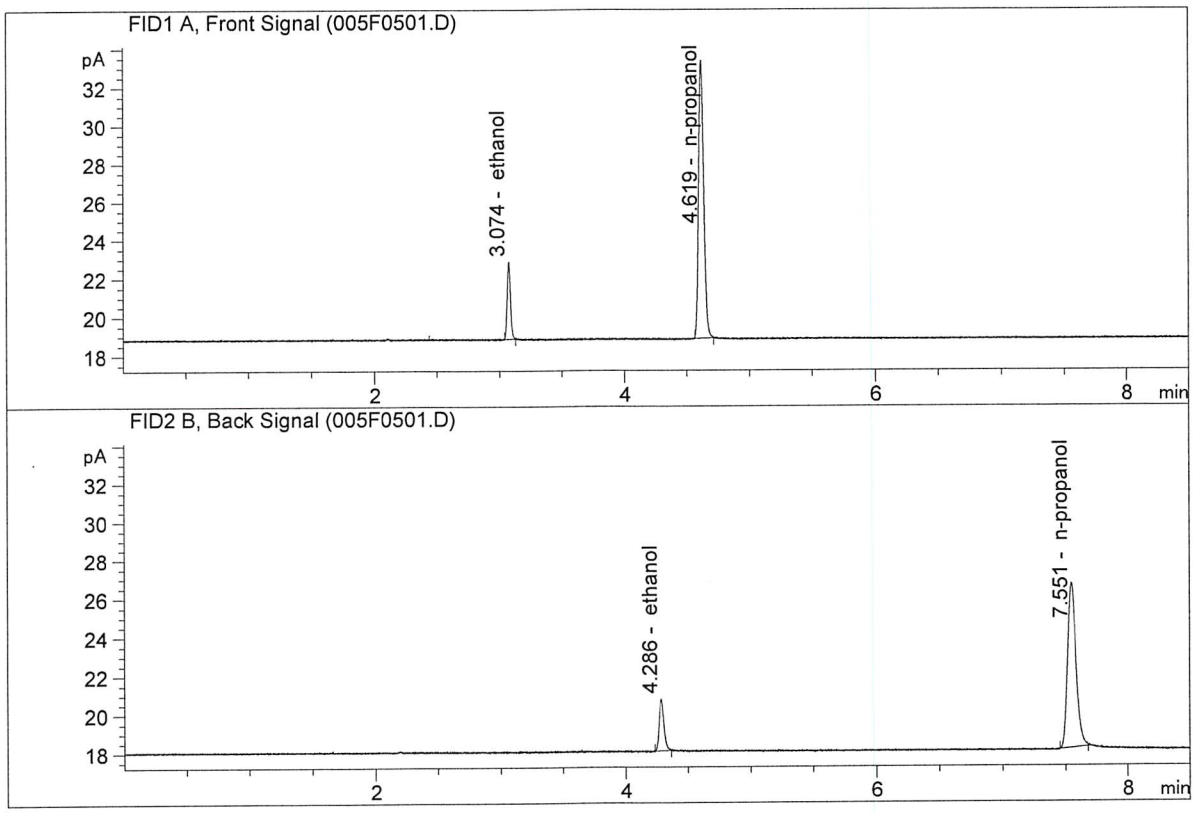
0.083

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-A
Laboratory : Meridian
Injection Date : May 31, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

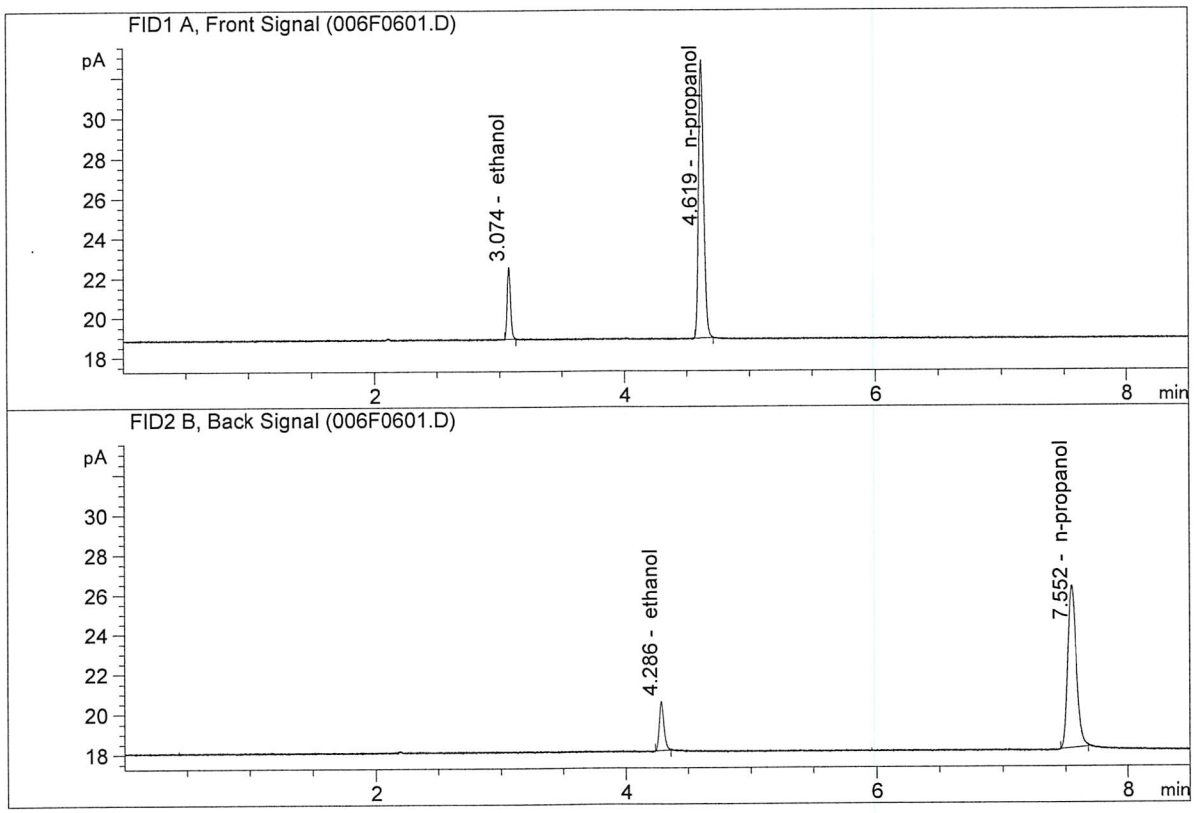


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.35321	0.0836	g/100cc
2.	Ethanol	Column 2:	7.44650	0.0862	g/100cc
3.	n-Propanol	Column 1:	41.41323	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.19326	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-B
Laboratory : Meridian
Injection Date : May 31, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.80257	0.0809	g/100cc
2.	Ethanol	Column 2:	6.71790	0.0820	g/100cc
3.	n-Propanol	Column 1:	39.63945	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.25082	1.0000	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 31 May 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1951	0.1962	0.0011	0.1956	0.1956	
(g/100cc)	0.1952	0.1961	0.0009	0.1956		

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
0.195	**0.185**	**0.205**	**0.010**

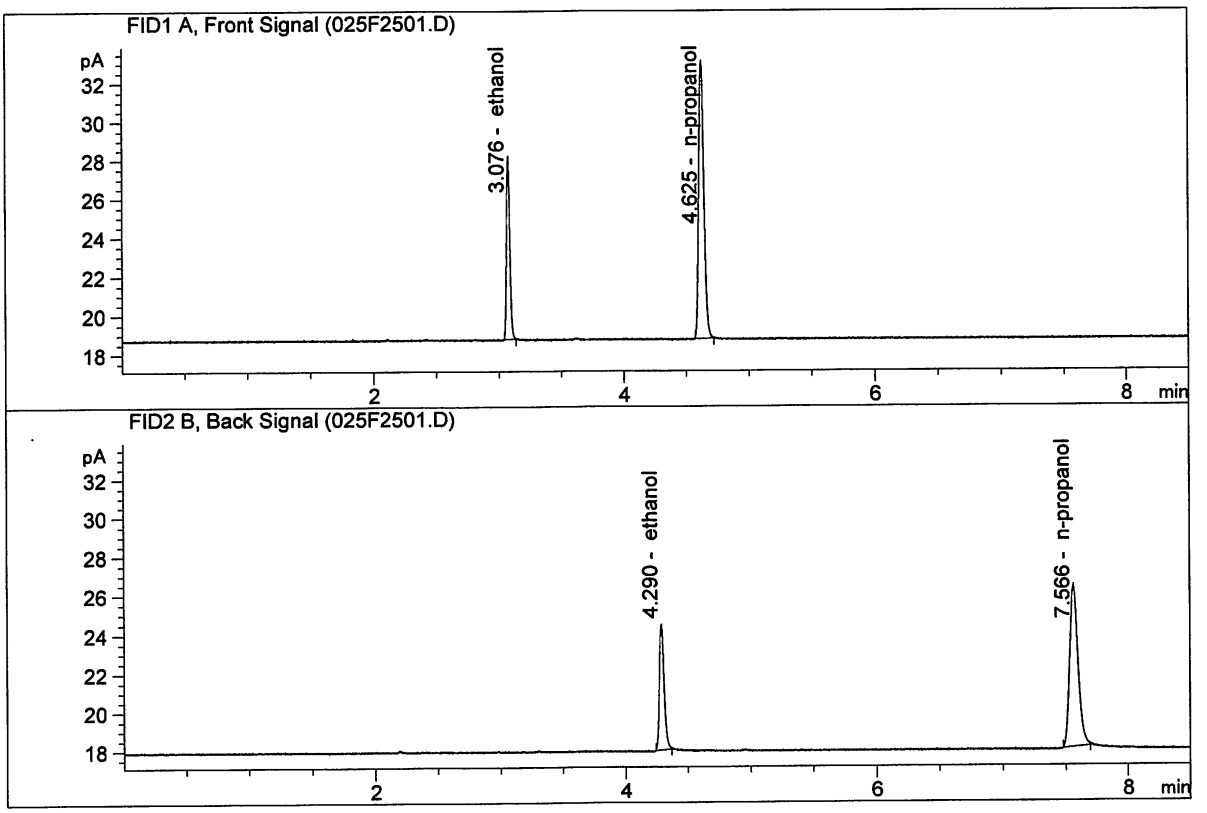
	Reported Result	
	0.195	

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A
Laboratory : Meridian
Injection Date : May 31, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

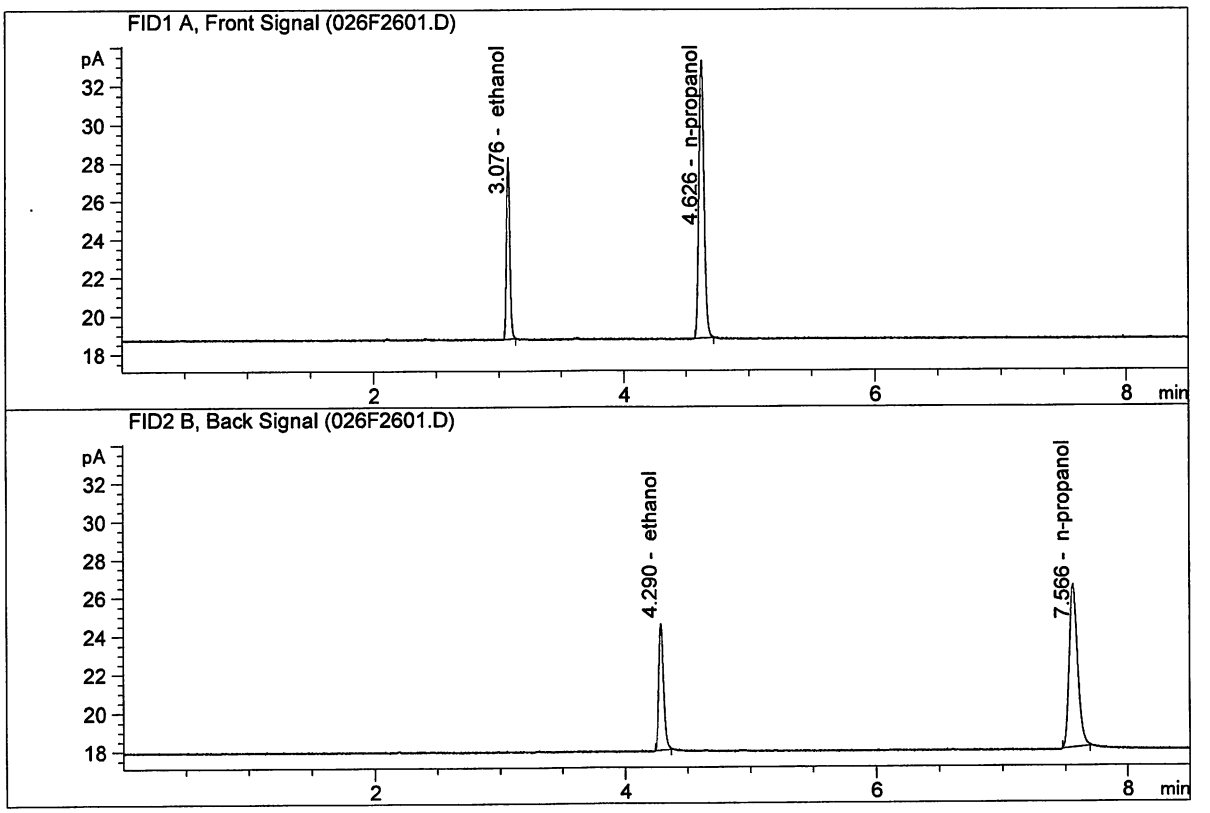


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.29017	0.1951	g/100cc
2.	Ethanol	Column 2:	17.52488	0.1962	g/100cc
3.	n-Propanol	Column 1:	41.05880	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.48031	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
Laboratory : Meridian
Injection Date : May 31, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.47703	0.1952	g/100cc
2.	Ethanol	Column 2:	17.69800	0.1961	g/100cc
3.	n-Propanol	Column 1:	41.49157	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.89014	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Analysis Date(s): 01 Jun 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0800	0.0822	0.0022	0.0811	0.0806	
(g/100cc)	0.0793	0.0811	0.0018	0.0802		

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**

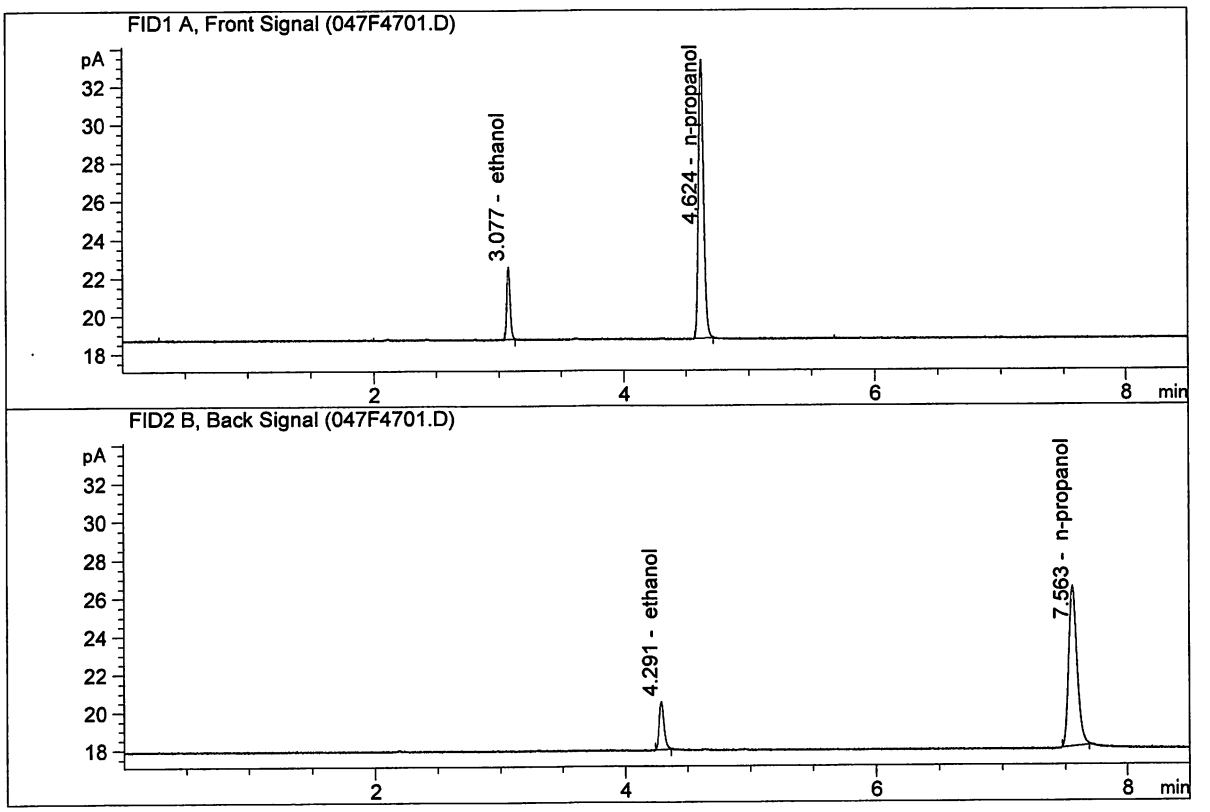
	Reported Result	
	0.080	

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : Jun 1, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

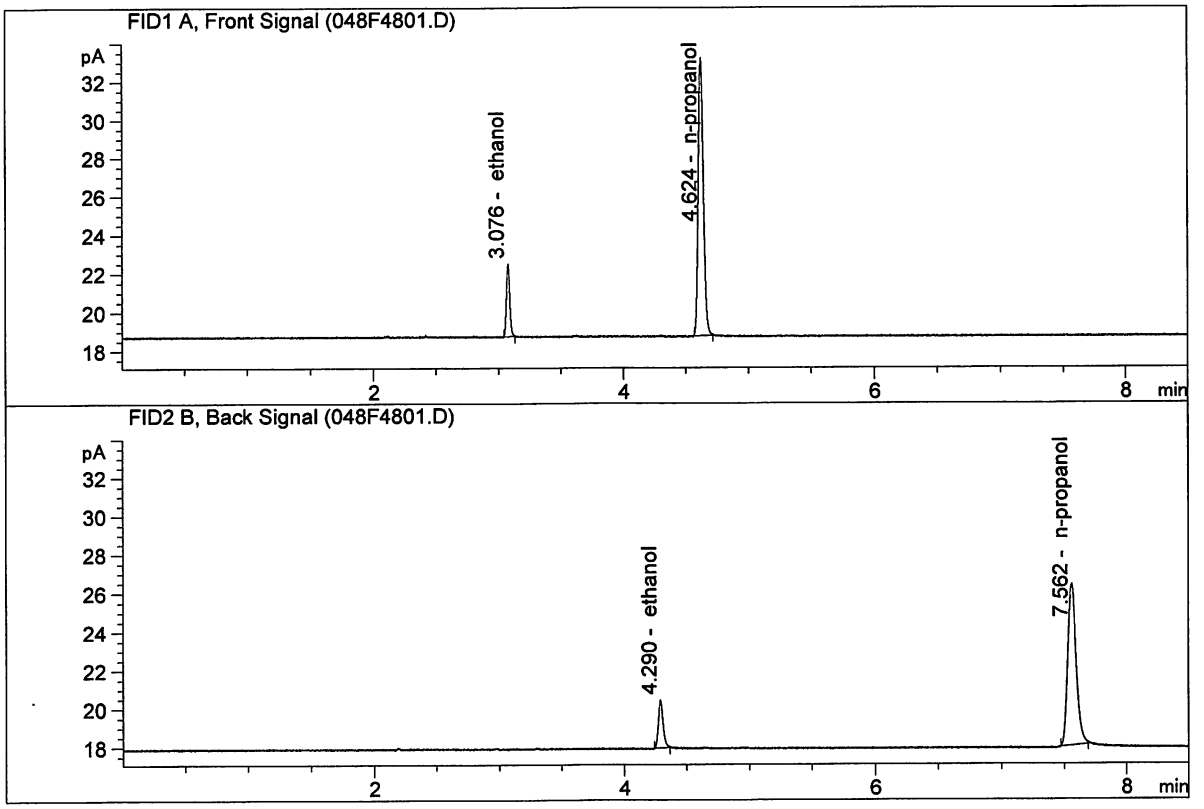


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.07276	0.0800	g/100cc
2.	Ethanol	Column 2:	7.02566	0.0822	g/100cc
3.	n-Propanol	Column 1:	41.66176	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.97254	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : Jun 1, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.94344	0.0793	g/100cc
2.	Ethanol	Column 2:	6.87545	0.0811	g/100cc
3.	n-Propanol	Column 1:	41.28640	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.67033	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-2 **Analysis Date(s): 01 Jun 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1980	0.1990	0.0010	0.1985	0.2017	
(g/100cc)	0.2051	0.2050	0.0001	0.2050		

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

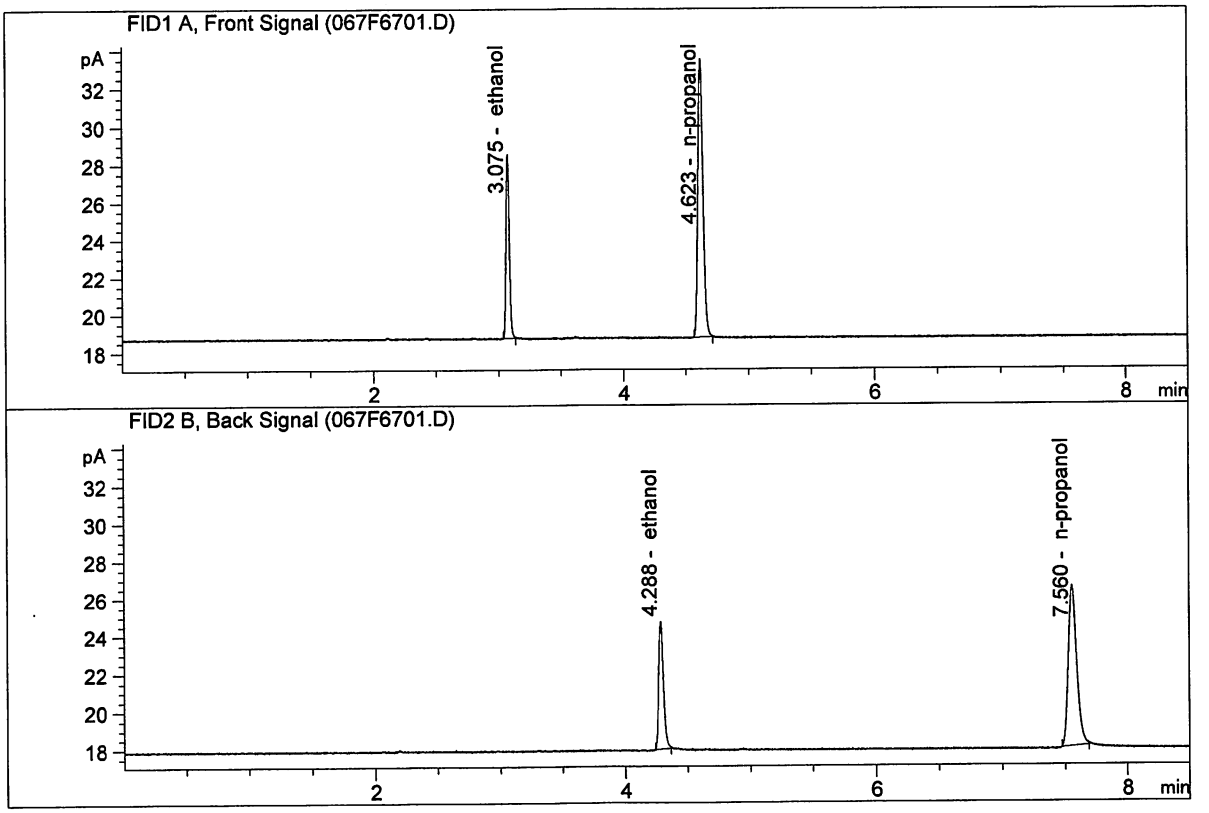
0.201

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-A
Laboratory : Meridian
Injection Date : Jun 1, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

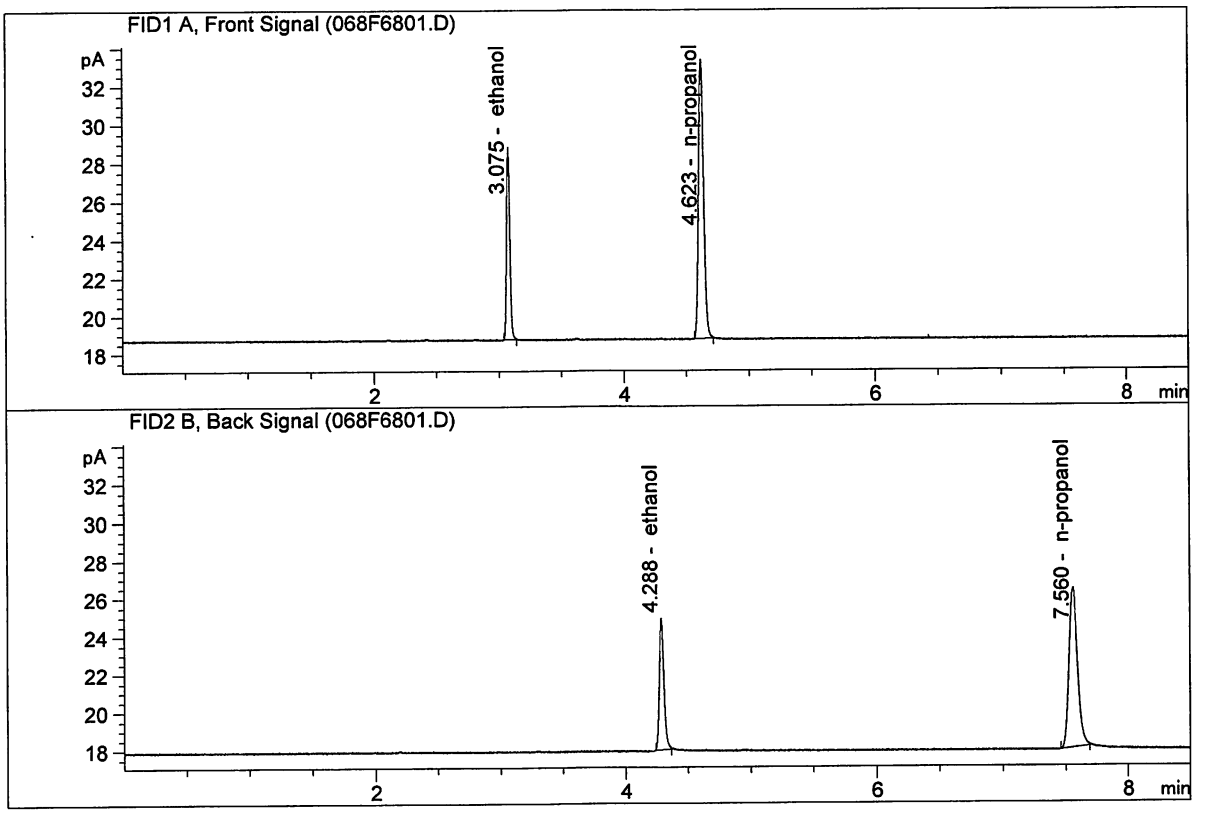


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.94804	0.1980	g/100cc
2.	Ethanol	Column 2:	18.10575	0.1990	g/100cc
3.	n-Propanol	Column 1:	41.99508	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.20056	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-B
Laboratory : Meridian
Injection Date : Jun 1, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

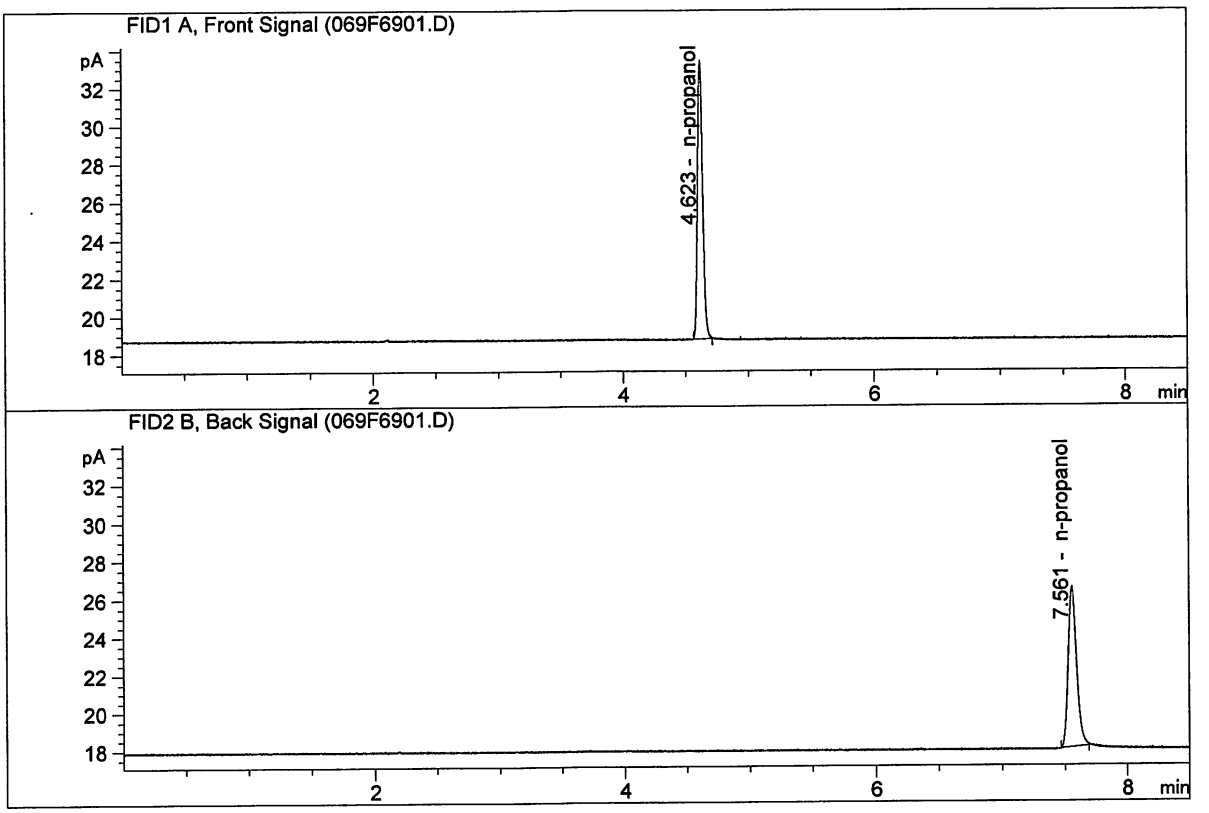


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.38337	0.2051	g/100cc
2.	Ethanol	Column 2:	18.53790	0.2050	g/100cc
3.	n-Propanol	Column 1:	41.50171	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.91024	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Jun 1, 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:	41.70406	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.12666	1.0000	g/100cc

JG

Sample Summary

Sequence table: C:\Chem32\1\Data\05-31-17_SAMPLES\05-31-17_SAMPLES 2017-05-31 16-43-32\05 31-17_SAMPLES.S
Data directory path: C:\Chem32\1\Data\05-31-17_SAMPLES\05-31-17_SAMPLES 2017-05-31 16-43-32\
Logbook: C:\Chem32\1\Data\05-31-17_SAMPLES\05-31-17_SAMPLES 2017-05-31 16-43-32\05 31-17_SAMPLES.LOG
Sequence start: 5/31/2017 4:58:22 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\05-31-17_SAMPLES\05-31-17_SAMPLES 2017-05-31 16-43-32 \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	RepCo 0.200 1710	-	1.0000	007F0701.D		4
8	8	1	RepCo 0.200 1710	-	1.0000	008F0801.D		4
9	9	1	RepCo 0.200 1710	-	1.0000	009F0901.D		4
10	10	1	RepCo 0.200 1710	-	1.0000	010F1001.D		4
11	11	1	M2017-2277-1-A	-	1.0000	011F1101.D		4
12	12	1	M2017-2277-1-B	-	1.0000	012F1201.D		4
13	13	1	M2017-2278-1-A	-	1.0000	013F1301.D		4
14	14	1	M2017-2278-1-B	-	1.0000	014F1401.D		4
15	15	1	M2017-2328-1-A	-	1.0000	015F1501.D		2
16	16	1	M2017-2328-1-B	-	1.0000	016F1601.D		2
17	17	1	M2017-2339-1-A	-	1.0000	017F1701.D		4
18	18	1	M2017-2339-1-B	-	1.0000	018F1801.D		4
19	19	1	M2017-2340-1-A	-	1.0000	019F1901.D		4
20	20	1	M2017-2340-1-B	-	1.0000	020F2001.D		4
21	21	1	M2017-2341-1-A	-	1.0000	021F2101.D		4
22	22	1	M2017-2341-1-B	-	1.0000	022F2201.D		4
23	23	1	M2017-2342-1-A	-	1.0000	023F2301.D		4
24	24	1	M2017-2342-1-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	M2017-2347-1-A	-	1.0000	027F2701.D		2
28	28	1	M2017-2347-1-B	-	1.0000	028F2801.D		2
29	29	1	M2017-2363-1-A	-	1.0000	029F2901.D		2
30	30	1	M2017-2363-1-B	-	1.0000	030F3001.D		2
31	31	1	M2017-2363-2-A	-	1.0000	031F3101.D		2
32	32	1	M2017-2363-2-B	-	1.0000	032F3201.D		2
33	33	1	M2017-2372-1-A	-	1.0000	033F3301.D		4
34	34	1	M2017-2372-1-B	-	1.0000	034F3401.D		4
35	35	1	M2017-2373-1-A	-	1.0000	035F3501.D		4
36	36	1	M2017-2373-1-B	-	1.0000	036F3601.D		4
37	37	1	M2017-2374-1-A	-	1.0000	037F3701.D		4
38	38	1	M2017-2374-1-B	-	1.0000	038F3801.D		4
39	39	1	M2017-2375-1-A	-	1.0000	039F3901.D		4
40	40	1	M2017-2375-1-B	-	1.0000	040F4001.D		4
41	41	1	M2017-2377-1-A	-	1.0000	041F4101.D		4
42	42	1	M2017-2377-1-B	-	1.0000	042F4201.D		4
43	43	1	M2017-2381-1-A	-	1.0000	043F4301.D		4

Sequence File C:\Chem32\...7_SAMPLES\05-31-17_SAMPLES 2017-05-31 16-43-32\05-31-17_SAMPLES.S

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
44	44	1	M2017-2381-1-B	-	1.0000	044F4401.D	4
45	45	1	M2017-2384-1-A	-	1.0000	045F4501.D	2
46	46	1	M2017-2384-1-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	M2017-2389-1-A	-	1.0000	049F4901.D	4
50	50	1	M2017-2389-1-B	-	1.0000	050F5001.D	4
51	51	1	M2017-2407-1-A	-	1.0000	051F5101.D	2
52	52	1	M2017-2407-1-B	-	1.0000	052F5201.D	2
53	53	1	M2017-2410-1-A	-	1.0000	053F5301.D	2
54	54	1	M2017-2410-1-B	-	1.0000	054F5401.D	2
55	55	1	M2017-2413-1-A	-	1.0000	055F5501.D	2
56	56	1	M2017-2413-1-B	-	1.0000	056F5601.D	2
57	57	1	M2017-2414-1-A	-	1.0000	057F5701.D	2
58	58	1	M2017-2414-1-B	-	1.0000	058F5801.D	2
59	59	1	M2017-2415-1-A	-	1.0000	059F5901.D	4
60	60	1	M2017-2415-1-B	-	1.0000	060F6001.D	4
61	61	1	M2017-2418-1-A	-	1.0000	061F6101.D	4
62	62	1	M2017-2418-1-B	-	1.0000	062F6201.D	4
63	63	1	M2017-2419-1-A	-	1.0000	063F6301.D	4
64	64	1	M2017-2419-1-B	-	1.0000	064F6401.D	4
65	65	1	M2017-2420-1-A	-	1.0000	065F6501.D	4
66	66	1	M2017-2420-1-B	-	1.0000	066F6601.D	4
67	67	1	QC2-2-A	-	1.0000	067F6701.D	4
68	68	1	QC2-2-B	-	1.0000	068F6801.D	4
69	69	1	INTERNAL STD BLK	-	1.0000	069F6901.D	2

Method file name: C:\Chem32\1\Data\05-31-17_SAMPLES\05-31-17_SAMPLES 2017-05-31 16-43-32\SHUTDOWN.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
70	70	1	EMPTY	-	1.0000	070F7001.D	0

JG