Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB 503A Liquid Processor/Dilutor Serial Number: MD96BC1382/MD94AM10010

Volatiles Quality Assurance Controls **Run Dates: 01/10/2018**

Calibration: 01/02/2018

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-18	1407031	0.0780	0.0702-0.0858	0.0814 g/100cc
					0.0827 g/100cc
					g/100cc
Level 2	Jul-18	1407032	0.2020	0.1818-.2222	0.2086 g/100cc
					0.2126 g/100cc
					g/100cc

Multi-Component mixture:	**Exp date: Oct 2019**	**Lot #**	FN09231404		OK
Curve Fit:		**Column 1**	0.99999	**Column2**	0.99994

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	0.0507	0.0518	0.0011	0.0512
0.080			0.080	0.072 - 0.088			0	#DIV/0!
0.100	Jun-19	FN06181501	0.100	0.090 - 0.110	0.1002	0.1005	0.0003	0.1003
0.200	Dec-19	FN12011401	0.200	0.180 - 0.220	0.1996	0.1983	0.0013	0.1989
0.300	Jun-20	FN02121501	0.300	0.270 - 0.330	0.2985	0.2977	0.0008	0.2981
0.400			0.400	0.360 - 0.440			0	#DIV/0!
0.500	Aug-19	FN07031402	0.500	0.450 - 0.550	0.5009	0.5018	0.0009	0.5013

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.

JC

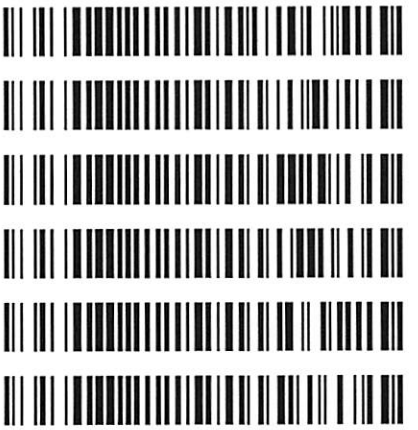
Worklist: 2129

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2017-5906	1	103452	Alcohol Analysis
M2017-5907	1	103458	Alcohol Analysis
M2017-5908	1	103459	Alcohol Analysis
M2017-5909	1	103463	Alcohol Analysis
M2017-5921	1	103576	Alcohol Analysis
M2017-5950	1	103737	Alcohol Analysis
M2017-5953	1	103763	Alcohol Analysis
M2017-5958	1	103771	Alcohol Analysis
M2017-5959	1	103772	Alcohol Analysis
M2017-5960	1	103773	Alcohol Analysis
M2017-5977	1	103804	Alcohol Analysis
M2018-0001	1	103845	Alcohol Analysis
M2018-0002	1	103850	Alcohol Analysis
M2018-0015	1	103882	Alcohol Analysis
M2018-0044	1	103988	Alcohol Analysis
M2018-0046	1	103991	Alcohol Analysis
M2018-0059	1	104028	Alcohol Analysis
M2018-0060	1	104029	Alcohol Analysis
M2018-0061	1	104032	Alcohol Analysis
M2018-0066	1	104062	Alcohol Analysis
M2018-0067	1	104124	Alcohol Analysis
M2018-0068	1	104125	Alcohol Analysis
P2017-2287	1	103139	Alcohol Analysis

JC

Worklist: 2129

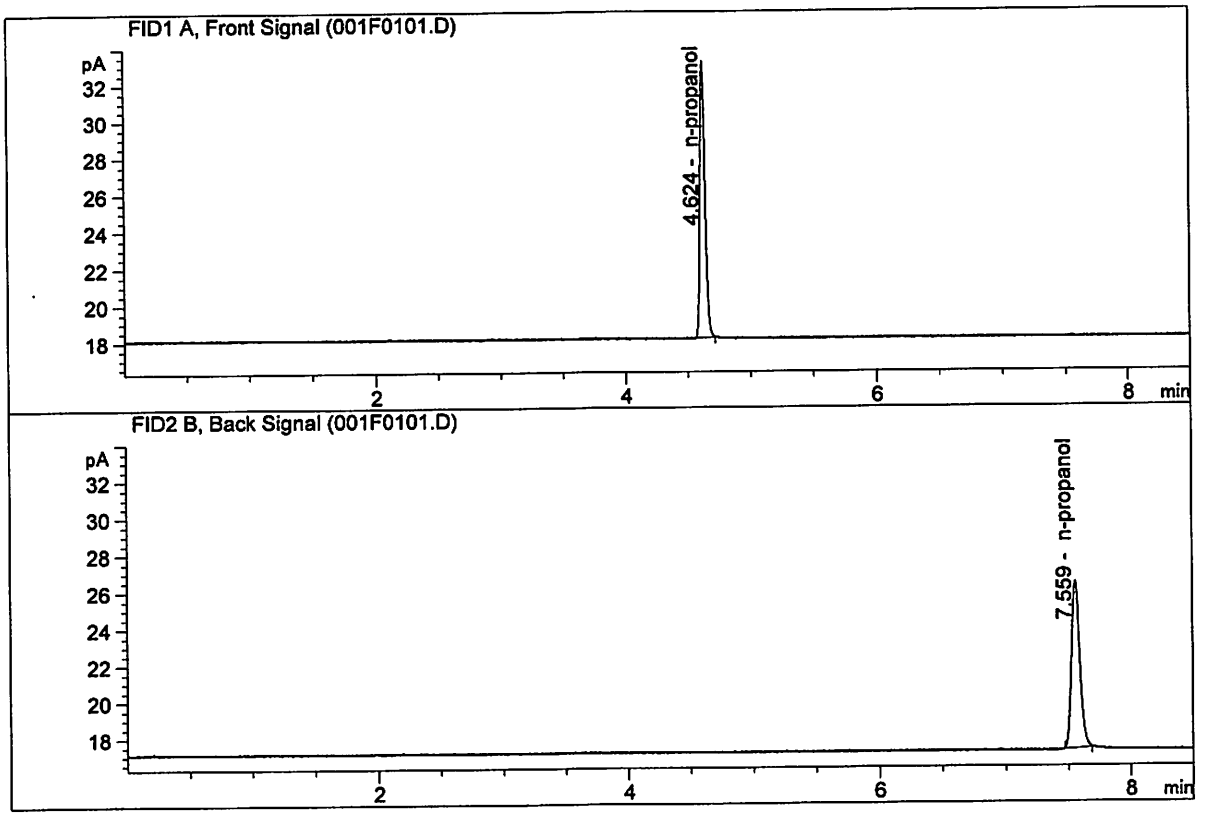
LAB_CASE	ITEM	TASK_ID	DESCRIPTION
P2017-2395	1	103140	Alcohol Analysis
P2017-2920	1	102183	Alcohol Analysis
P2017-2999	1	102950	Alcohol Analysis
P2017-3017	1	103075	Alcohol Analysis
P2017-3026	2	103202	Alcohol Analysis
P2017-3071	1	103604	Alcohol Analysis



JL

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Jan 10, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

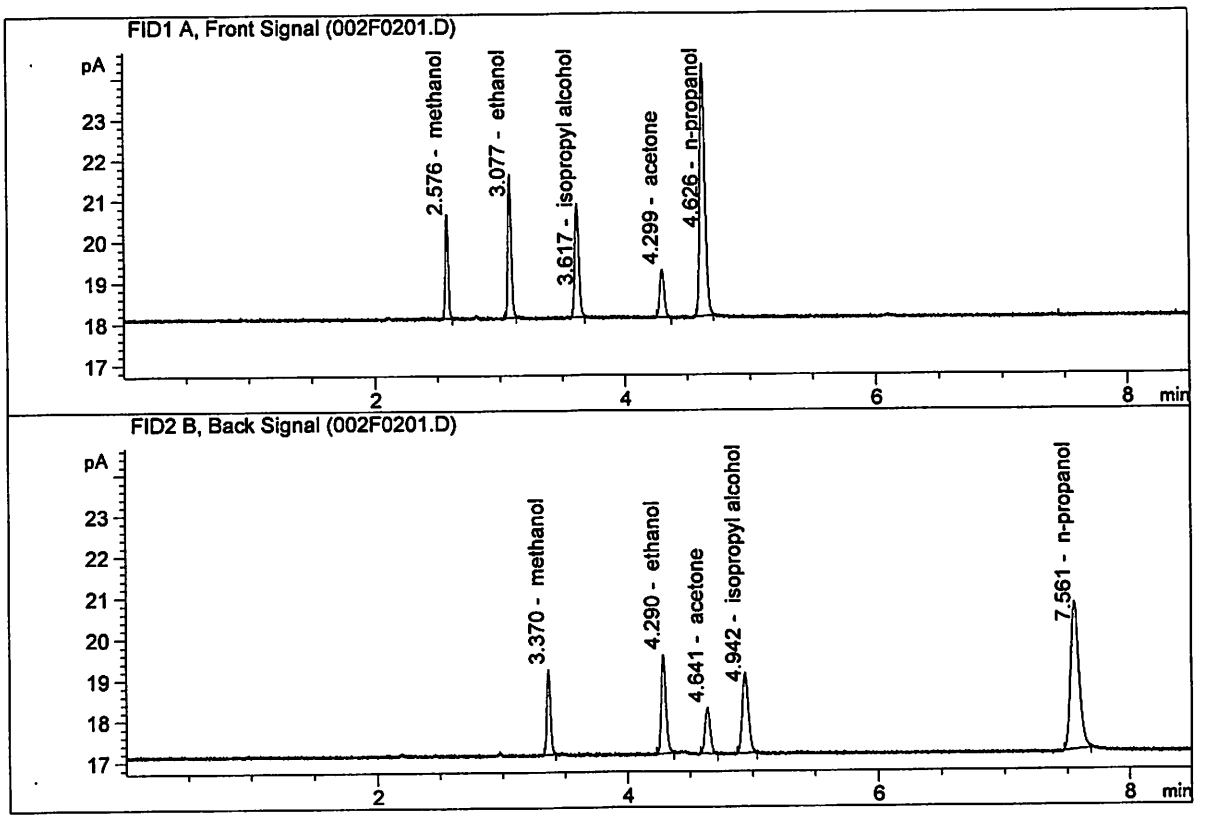


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	42.68496	1.0000	g/100cc
4.	n-Propanol	Column 2:	43.84444	1.0000	g/100cc

JL

ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN09231404
Laboratory : Meridian
Injection Date : Jan 10, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.28793	0.1821	g/100cc
2.	Ethanol	Column 2:	6.49424	0.1863	g/100cc
3.	n-Propanol	Column 1:	17.49132	1.0000	g/100cc
4.	n-Propanol	Column 2:	17.37272	1.0000	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 10 Jan 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0814	0.0818	0.0004	0.0816	0.0814	
(g/100cc)	0.0810	0.0817	0.0007	0.0813		

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

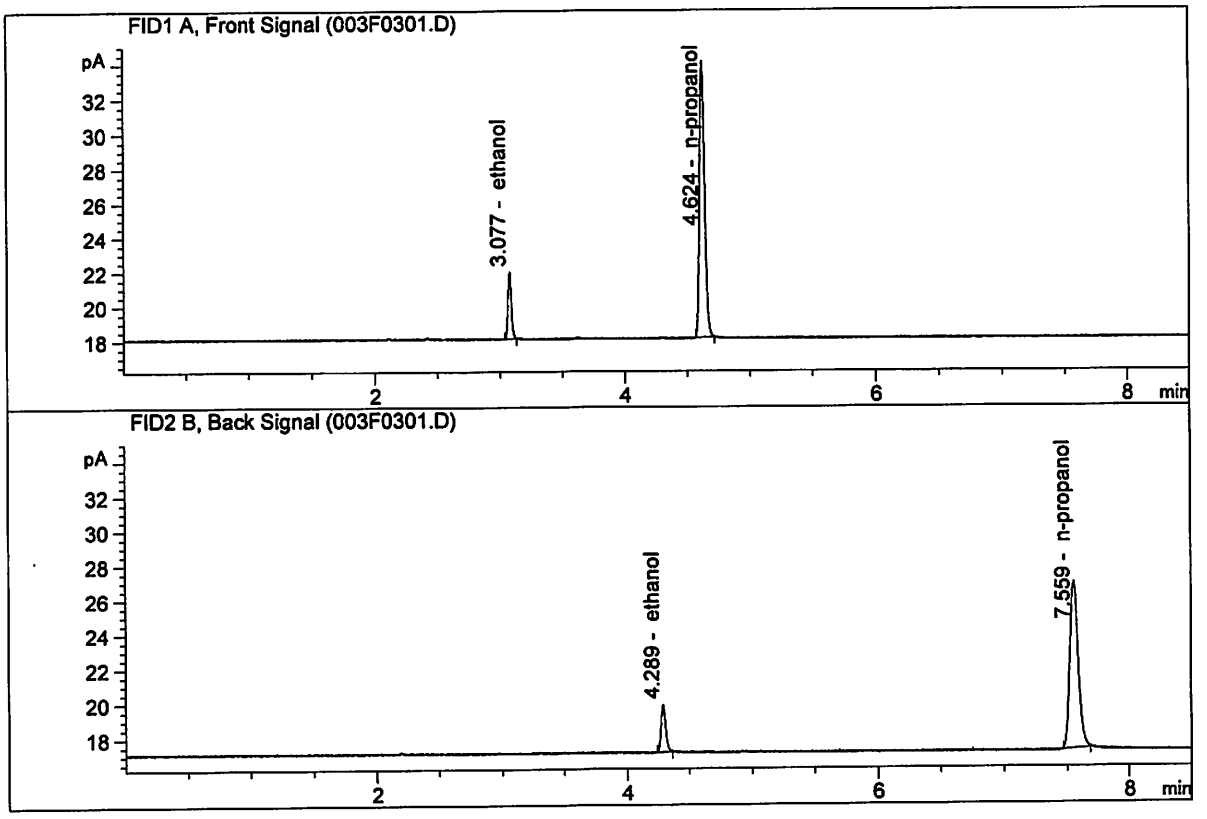
0.081

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
Laboratory : Meridian
Injection Date : Jan 10, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

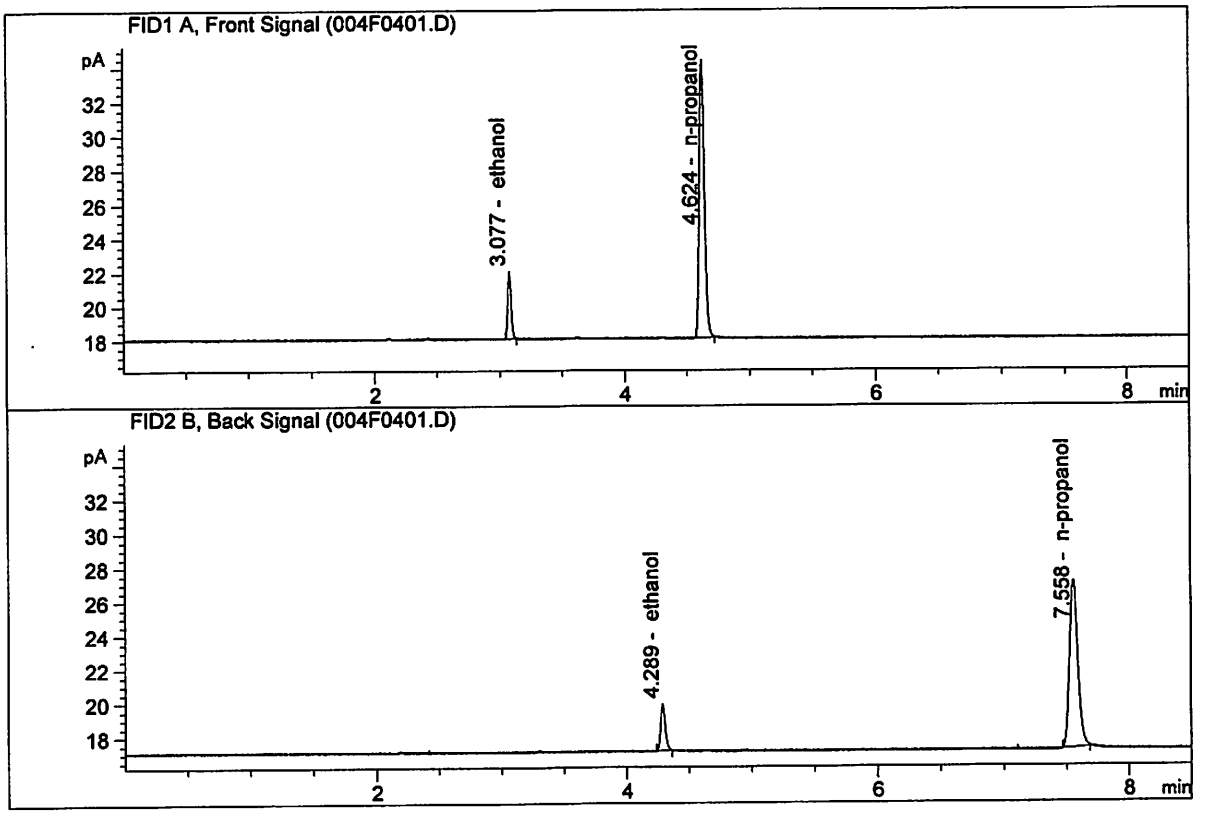


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.21991	0.0814	g/100cc
2.	Ethanol	Column 2:	7.30893	0.0818	g/100cc
3.	n-Propanol	Column 1:	45.54053	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.39331	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
Laboratory : Meridian
Injection Date : Jan 10, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.33573	0.0810	g/100cc
2.	Ethanol	Column 2:	7.45263	0.0817	g/100cc
3.	n-Propanol	Column 1:	46.49776	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.35842	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN10281510 **Analysis Date(s): 10 Jan 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0823	0.0833	0.0010	0.0828	0.0830	
(g/100cc)	0.0829	0.0836	0.0007	0.0832		

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**

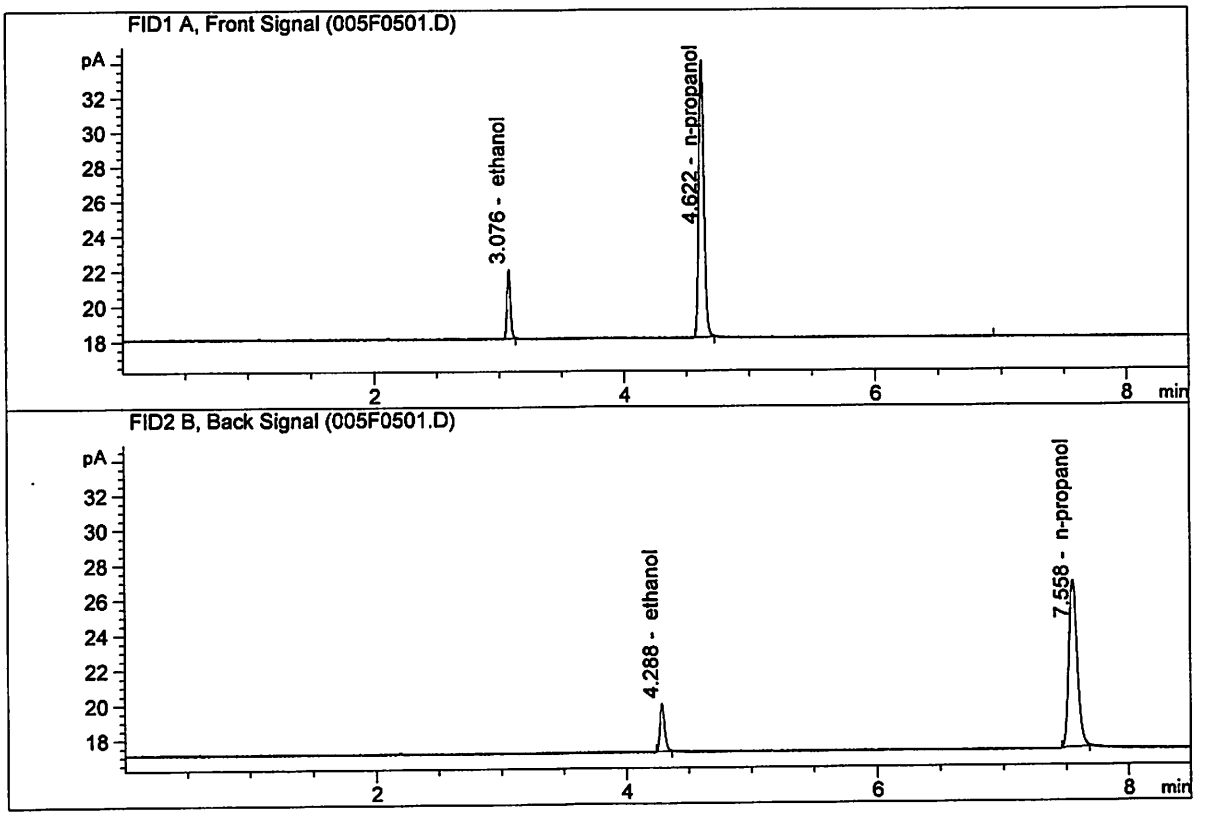
	Reported Result	
	0.083	

Calibration and control data are stored centrally.

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-A
Laboratory : Meridian
Injection Date : Jan 10, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

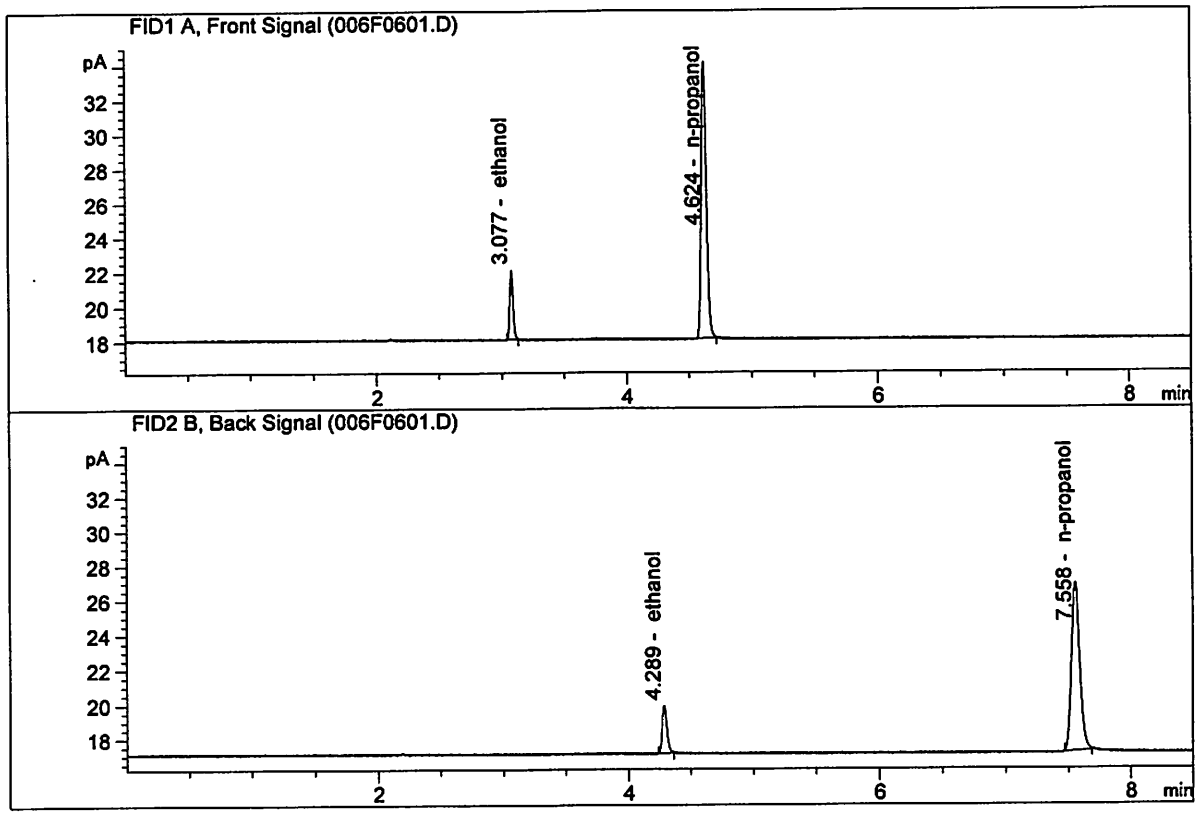


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.28692	0.0823	g/100cc
2.	Ethanol	Column 2:	7.41866	0.0833	g/100cc
3.	n-Propanol	Column 1:	45.46685	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.12766	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-B
Laboratory : Meridian
Injection Date : Jan 10, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.36913	0.0829	g/100cc
2.	Ethanol	Column 2:	7.46613	0.0836	g/100cc
3.	n-Propanol	Column 1:	45.66321	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.28825	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 10 Jan 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2082	0.2083	0.0001	0.2082	0.2086	
(g/100cc)	0.2089	0.2091	0.0002	0.2090		

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
0.208	**0.197**	**0.219**	**0.011**

Reported Result

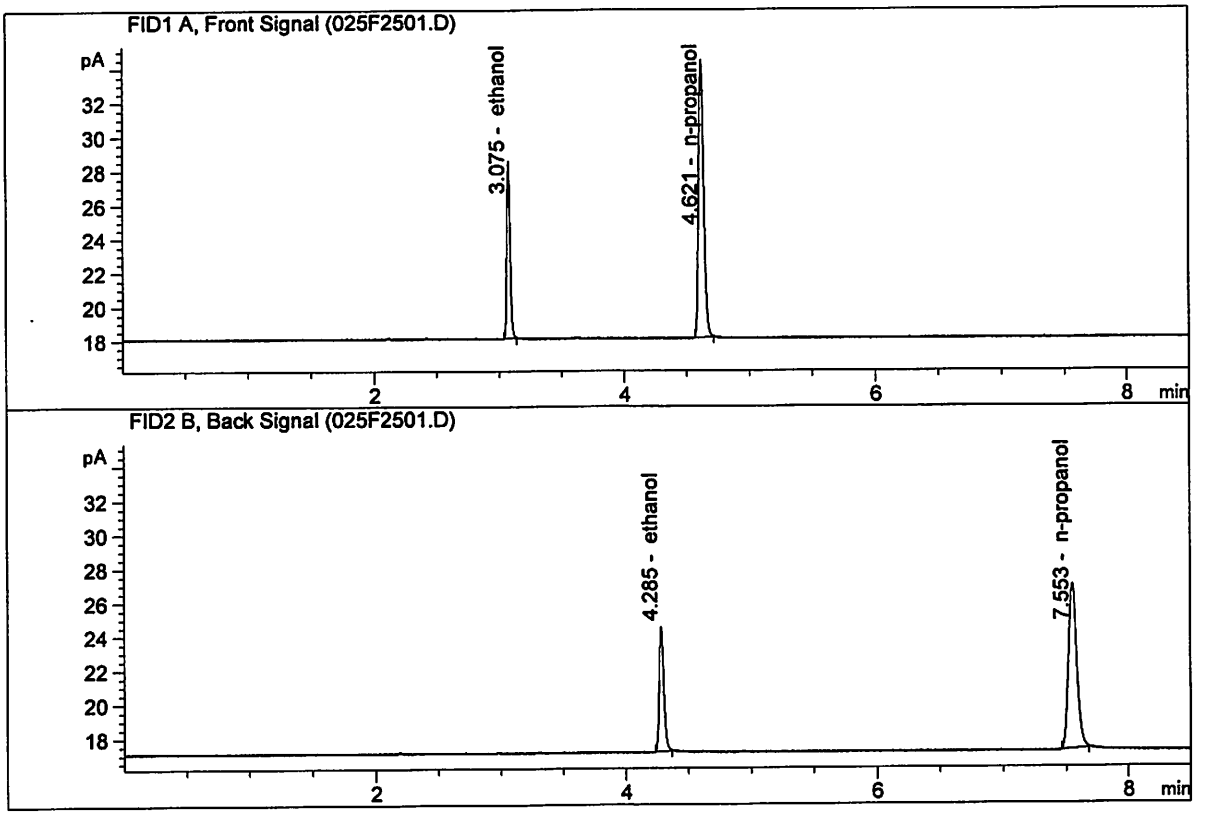
0.208

Calibration and control data are stored centrally.

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A
Laboratory : Meridian
Injection Date : Jan 10, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

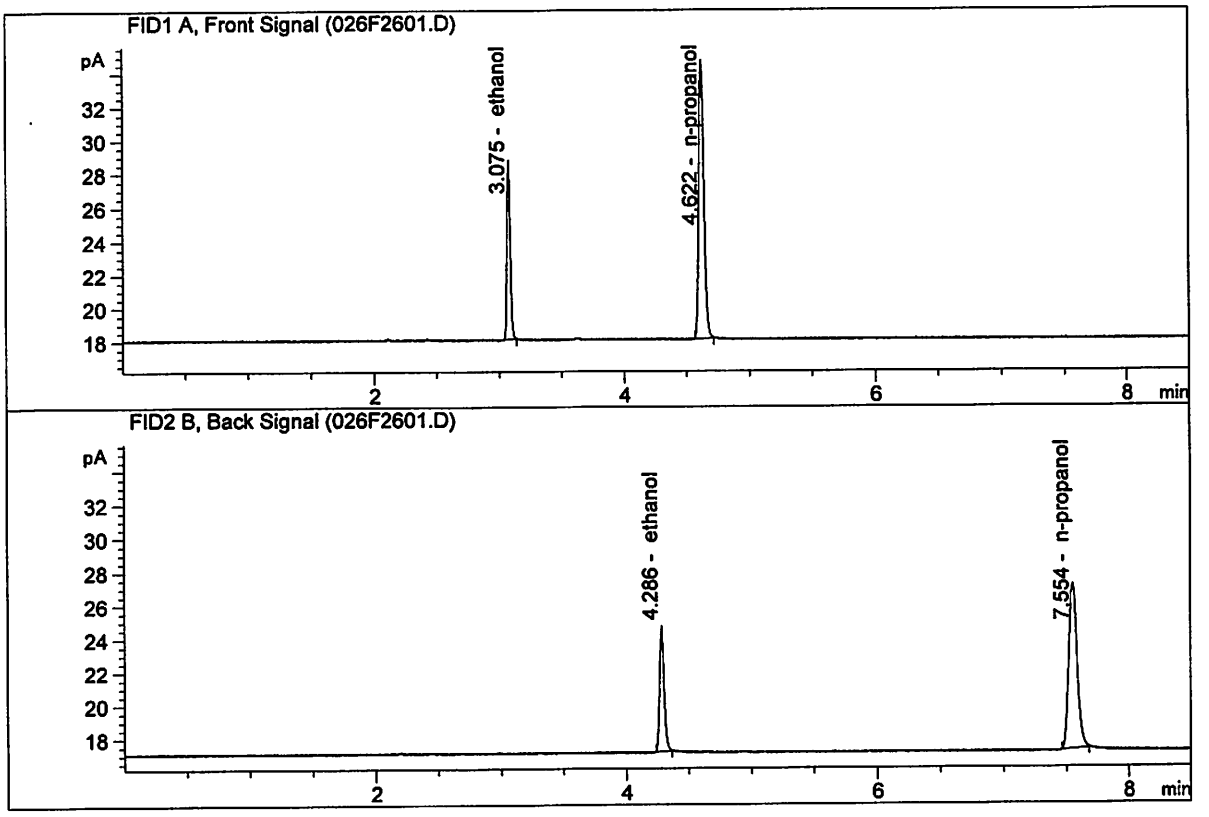


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.10915	0.2082	g/100cc
2.	Ethanol	Column 2:	19.56196	0.2083	g/100cc
3.	n-Propanol	Column 1:	46.42868	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.65162	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
Laboratory : Meridian
Injection Date : Jan 10, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.52612	0.2089	g/100cc
2.	Ethanol	Column 2:	20.00704	0.2091	g/100cc
3.	n-Propanol	Column 1:	47.28881	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.51002	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Analysis Date(s): 11 Jan 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0832	0.0847	0.0015	0.0839	0.0827	
(g/100cc)	0.0814	0.0817	0.0003	0.0815		

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

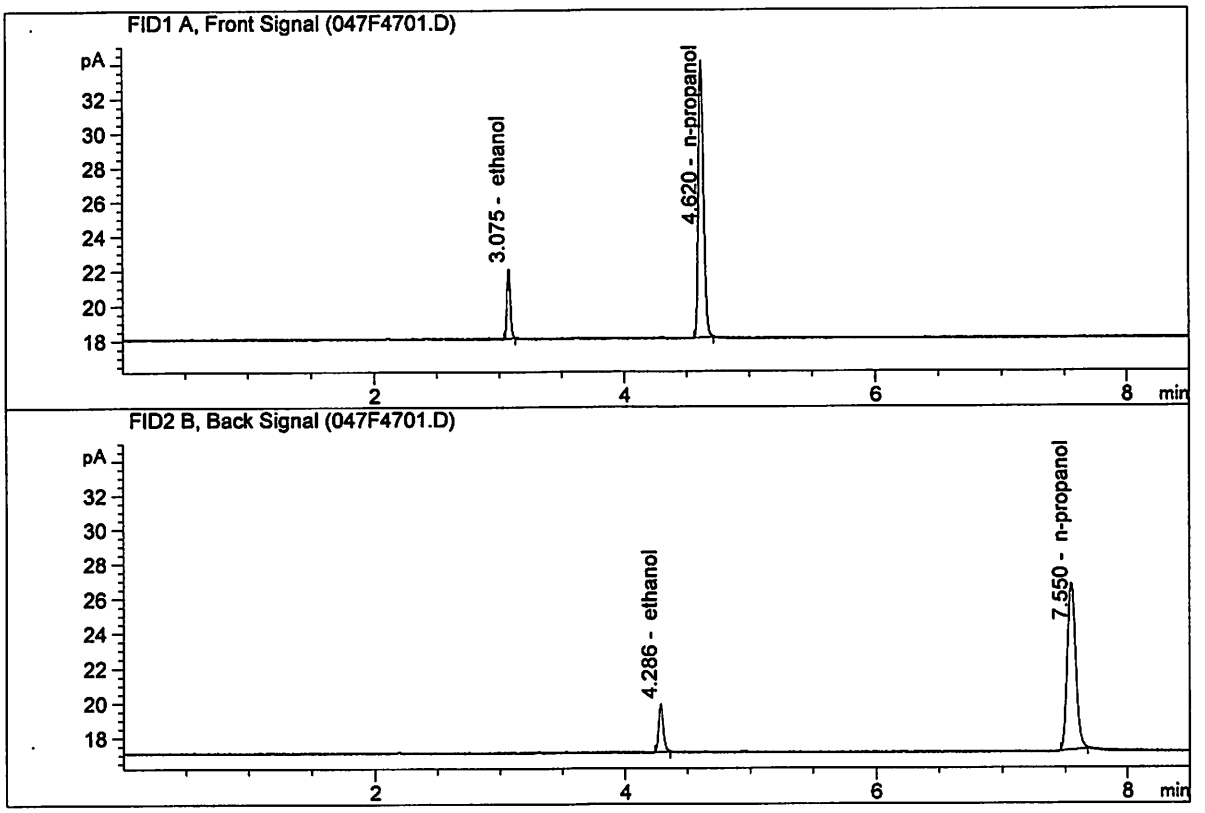
0.082

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : Jan 11, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

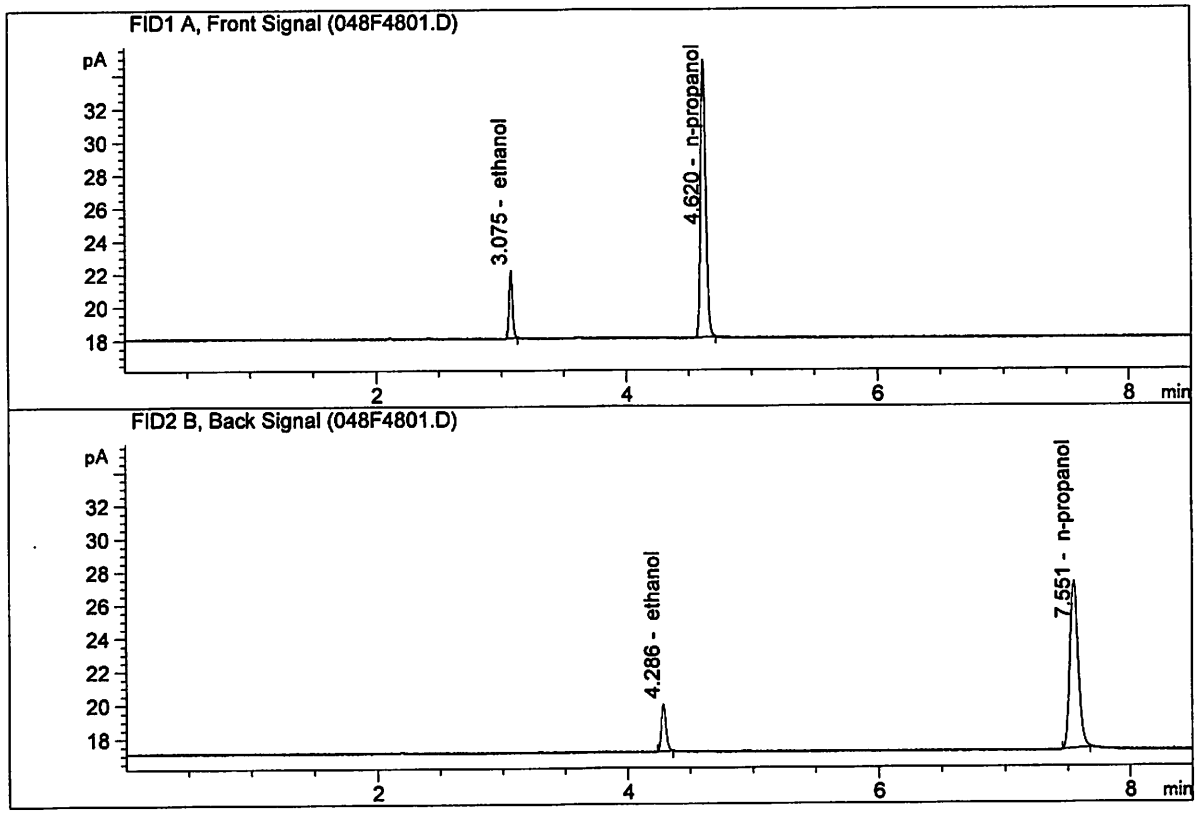


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.38422	0.0832	g/100cc
2.	Ethanol	Column 2:	7.47056	0.0847	g/100cc
3.	n-Propanol	Column 1:	45.53405	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.67007	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : Jan 11, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.54094	0.0814	g/100cc
2.	Ethanol	Column 2:	7.53626	0.0817	g/100cc
3.	n-Propanol	Column 1:	47.58491	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.84927	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-2 **Analysis Date(s): 11 Jan 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2125	0.2128	0.0003	0.2126	0.2126	
(g/100cc)	0.2122	0.2130	0.0008	0.2126		

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
0.212	**0.201**	**0.223**	**0.011**

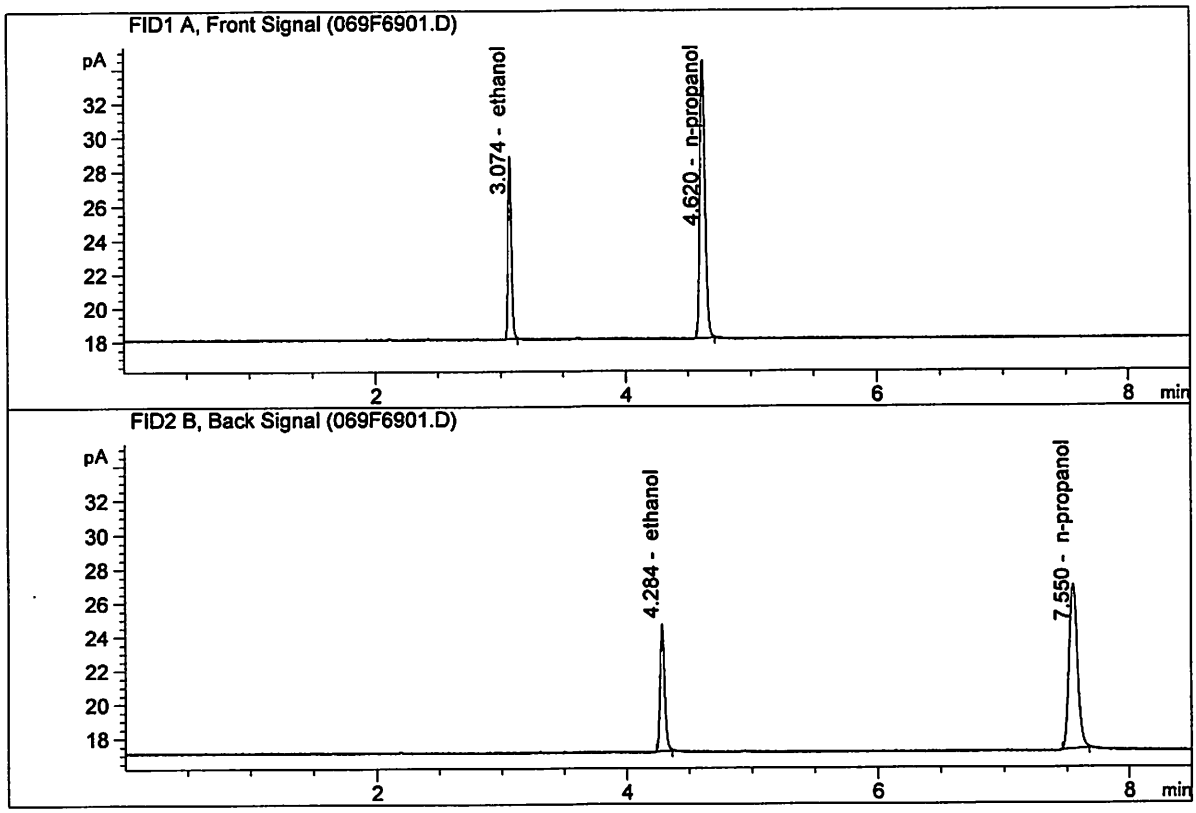
	Reported Result	
	0.212	

Calibration and control data are stored centrally.

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-A
Laboratory : Meridian
Injection Date : Jan 11, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

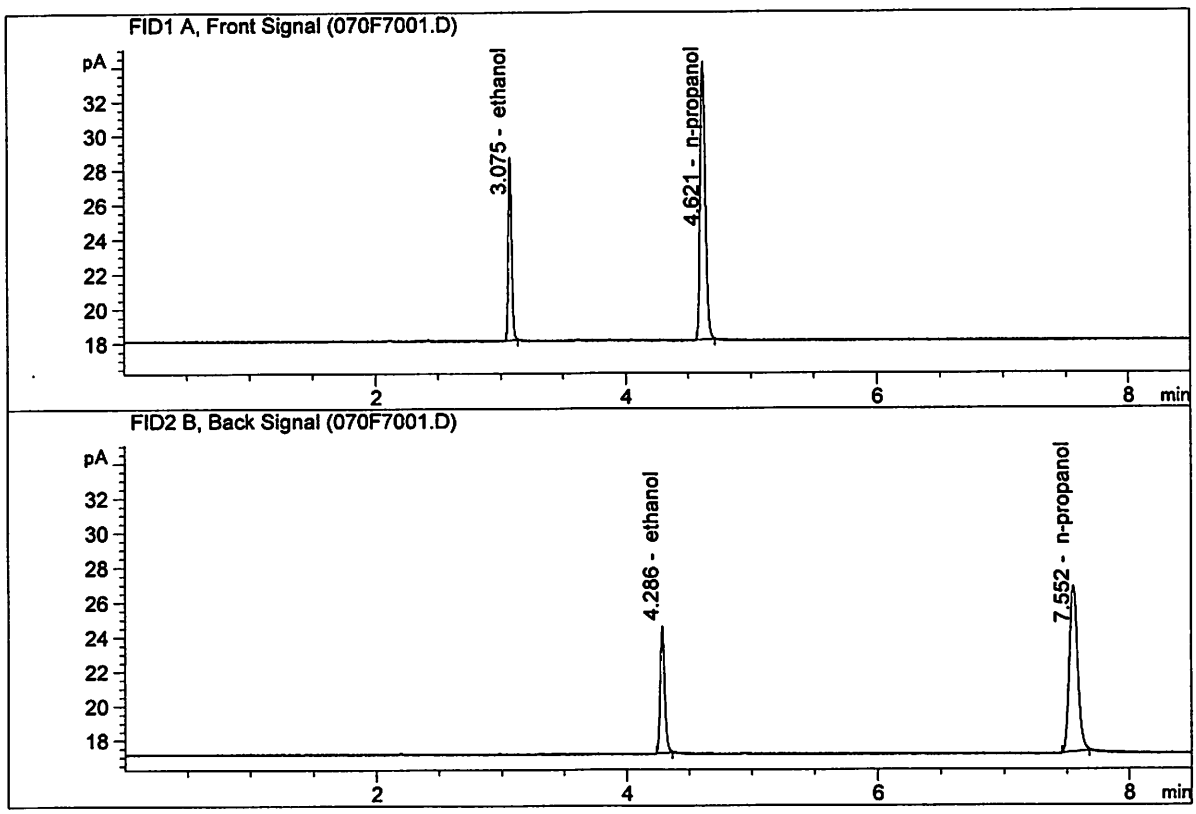


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.48001	0.2125	g/100cc
2.	Ethanol	Column 2:	19.92229	0.2128	g/100cc
3.	n-Propanol	Column 1:	46.35500	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.45914	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-B
Laboratory : Meridian
Injection Date : Jan 11, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

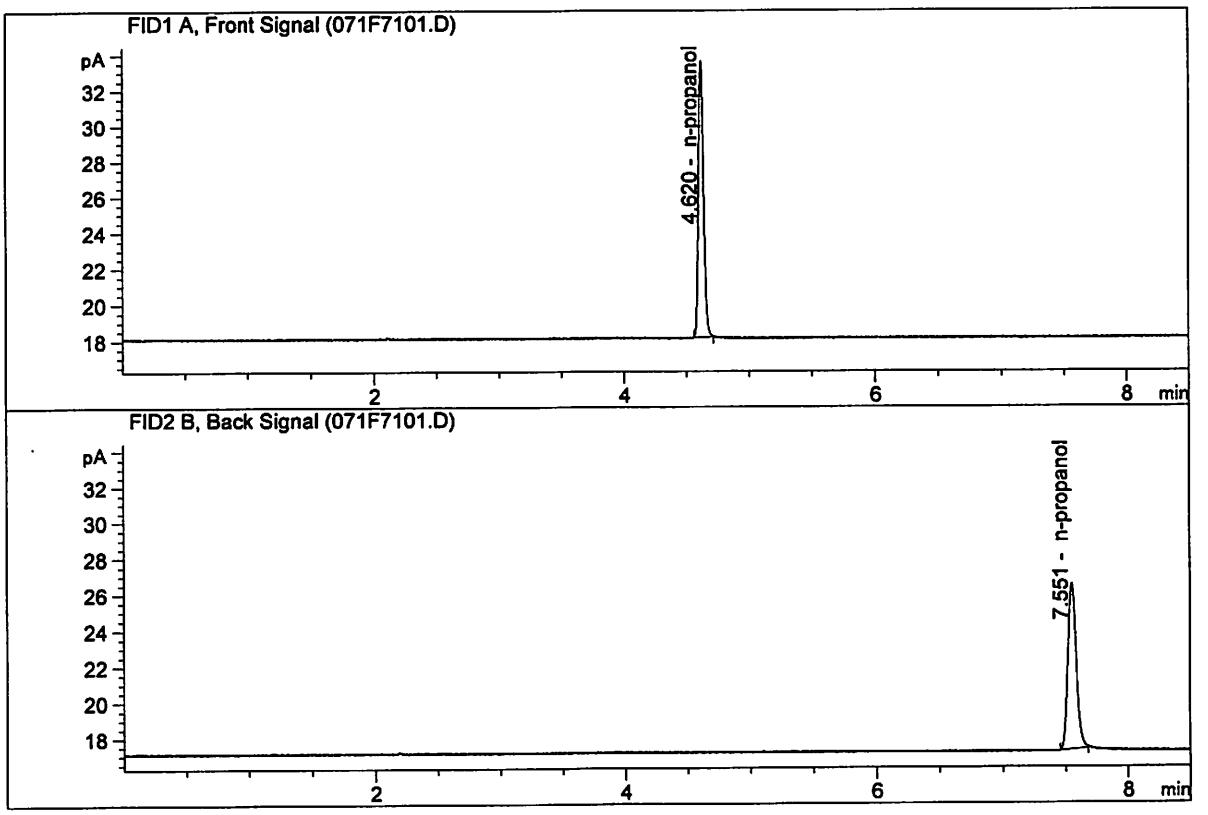


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.18062	0.2122	g/100cc
2.	Ethanol	Column 2:	19.60855	0.2130	g/100cc
3.	n-Propanol	Column 1:	45.70702	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.69412	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Jan 11, 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:	43.99219	1.0000	g/100cc
4.	n-Propanol	Column 2:	44.19915	1.0000	g/100cc

JG

Sample Summary

Sequence table: C:\Chem32\1\Data\01-10-18_2_SAMPLES\01-10-18_2_SAMPLES 2018-01-10 16-22-0
\01-10-18_2_SAMPLES.S
Data directory path: C:\Chem32\1\Data\01-10-18_2_SAMPLES\01-10-18_2_SAMPLES 2018-01-10 16-22-0
\
Logbook: C:\Chem32\1\Data\01-10-18_2_SAMPLES\01-10-18_2_SAMPLES 2018-01-10 16-22-0
\01-10-18_2_SAMPLES.LOG
Sequence start: 1/10/2018 4:37:00 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\01-10-18_2_SAMPLES\01-10-18_2_SAMPLES 2018-01-10 16-22-0
\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	M2017-5906-1-A	-	1.0000	007F0701.D	6
8	8	1	M2017-5906-1-B	-	1.0000	008F0801.D	6
9	9	1	M2017-5907-1-A	-	1.0000	009F0901.D	6
10	10	1	M2017-5907-1-B	-	1.0000	010F1001.D	6
11	11	1	M2017-5908-1-A	-	1.0000	011F1101.D	6
12	12	1	M2017-5908-1-B	-	1.0000	012F1201.D	6
13	13	1	M2017-5909-1-A	-	1.0000	013F1301.D	6
14	14	1	M2017-5909-1-B	-	1.0000	014F1401.D	6
15	15	1	M2017-5921-1-A	-	1.0000	015F1501.D	6
16	16	1	M2017-5921-1-B	-	1.0000	016F1601.D	6
17	17	1	M2017-5950-1-A	-	1.0000	017F1701.D	6
18	18	1	M2017-5950-1-B	-	1.0000	018F1801.D	6
19	19	1	M2017-5953-1-A	-	1.0000	019F1901.D	6
20	20	1	M2017-5953-1-B	-	1.0000	020F2001.D	6
21	21	1	M2017-5958-1-A	-	1.0000	021F2101.D	6
22	22	1	M2017-5958-1-B	-	1.0000	022F2201.D	6
23	23	1	M2017-5959-1-A	-	1.0000	023F2301.D	6
24	24	1	M2017-5959-1-B	-	1.0000	024F2401.D	6
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	M2017-5960-1-A	-	1.0000	027F2701.D	6
28	28	1	M2017-5960-1-B	-	1.0000	028F2801.D	6
29	29	1	M2017-5977-1-A	-	1.0000	029F2901.D	6
30	30	1	M2017-5977-1-B	-	1.0000	030F3001.D	6
31	31	1	M2018-0001-1-A	-	1.0000	031F3101.D	6
32	32	1	M2018-0001-1-B	-	1.0000	032F3201.D	6
33	33	1	M2018-0002-1-A	-	1.0000	033F3301.D	6
34	34	1	M2018-0002-1-B	-	1.0000	034F3401.D	6
35	35	1	M2018-0015-1-A	-	1.0000	035F3501.D	2
36	36	1	M2018-0015-1-B	-	1.0000	036F3601.D	2
37	37	1	M2018-0044-1-A	-	1.0000	037F3701.D	6
38	38	1	M2018-0044-1-B	-	1.0000	038F3801.D	6
39	39	1	M2018-0046-1-A	-	1.0000	039F3901.D	6
40	40	1	M2018-0046-1-B	-	1.0000	040F4001.D	6
41	41	1	M2018-0059-1-A	-	1.0000	041F4101.D	6
42	42	1	M2018-0059-1-B	-	1.0000	042F4201.D	6

Sequence File C:\Chem32\...MPLES\01-10-18_2_SAMPLES 2018-01-10 16-22-08\01-10-18_2_SAMPLES.S

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
43	43	1	M2018-0060-1-A	-	1.0000	043F4301.D		6
44	44	1	M2018-0060-1-B	-	1.0000	044F4401.D		6
45	45	1	M2018-0061-1-A	-	1.0000	045F4501.D		6
46	46	1	M2018-0061-1-B	-	1.0000	046F4601.D		6
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	M2018-0066-1-A	-	1.0000	049F4901.D		6
50	50	1	M2018-0066-1-B	-	1.0000	050F5001.D		6
51	51	1	M2018-0067-1-A	-	1.0000	051F5101.D		2
52	52	1	M2018-0067-1-B	-	1.0000	052F5201.D		2
53	53	1	M2018-0068-1-A	-	1.0000	053F5301.D		4
54	54	1	M2018-0068-1-B	-	1.0000	054F5401.D		4
55	55	1	P2017-2287-1-A	-	1.0000	055F5501.D		6
56	56	1	P2017-2287-1-B	-	1.0000	056F5601.D		6
57	57	1	P2017-2395-1-A	-	1.0000	057F5701.D		6
58	58	1	P2017-2395-1-B	-	1.0000	058F5801.D		6
59	59	1	P2017-2920-1-A	-	1.0000	059F5901.D		6
60	60	1	P2017-2920-1-B	-	1.0000	060F6001.D		6
61	61	1	P2017-2999-1-A	-	1.0000	061F6101.D		3
62	62	1	P2017-2999-1-B	-	1.0000	062F6201.D		3
63	63	1	P2017-3017-1-A	-	1.0000	063F6301.D		6
64	64	1	P2017-3017-1-B	-	1.0000	064F6401.D		6
65	65	1	P2017-3026-2-A	-	1.0000	065F6501.D		2
66	66	1	P2017-3026-2-B	-	1.0000	066F6601.D		2
67	67	1	P2017-3071-1-A	-	1.0000	067F6701.D		6
68	68	1	P2017-3071-1-B	-	1.0000	068F6801.D		6
69	69	1	QC2-2-A	-	1.0000	069F6901.D		4
70	70	1	QC2-2-B	-	1.0000	070F7001.D		4
71	71	1	INTERNAL STD BLK	-	1.0000	071F7101.D		2

Method file name: C:\Chem32\1\Data\01-10-18_2_SAMPLES\01-10-18_2_SAMPLES 2018-01-10 16-22-0
\SHUTDOWN.M

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
72	72	1	EMPTY	-	1.0000	072F7201.D		0