Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

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

Volatiles Quality Assurance Controls

Run Dates: 03/27/18-03/28/18

Calibration: 03/20/2018

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-18	1407031	0.0780	0.0702-0.0858	0.0813 g/100cc
					g/100cc
					g/100cc
Level 2	Jul-18	1407032	0.2020	0.1818-.2222	0.2067 g/100cc
					g/100cc
					g/100cc

Multi-Component mixture:	**Exp date: Sept 2020**	**Lot #**	FN06041503		OK
Curve Fit:		**Column 1**	0.99999	**Column2**	0.99996

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	0.0522	0.0014	0.0515
0.080			0.080	0.072 - 0.088			0	#DIV/0!
0.100	Jun-20	FN06181501	0.100	0.090 - 0.110	0.0988	0.0990	0.0002	0.0989
0.200	Dec-19	FN12011401	0.200	0.180 - 0.220	0.1999	0.1981	0.0018	0.199
0.300	Jun-20	FN06051501	0.300	0.270 - 0.330	0.3007	0.3000	0.0007	0.3003
0.400			0.400	0.360 - 0.440			0	#DIV/0!
0.500	Aug-19	FN07031402	0.500	0.450 - 0.550	0.4998	0.5007	0.0009	0.5002

Aqueous Controls

Control level	Expiration	Cerilliant Lot #	Target Value	Acceptable Range	Overall Results
0.080	Nov-20	FN10281510	0.08000	0.076 - 0.084	0.082 g/100cc

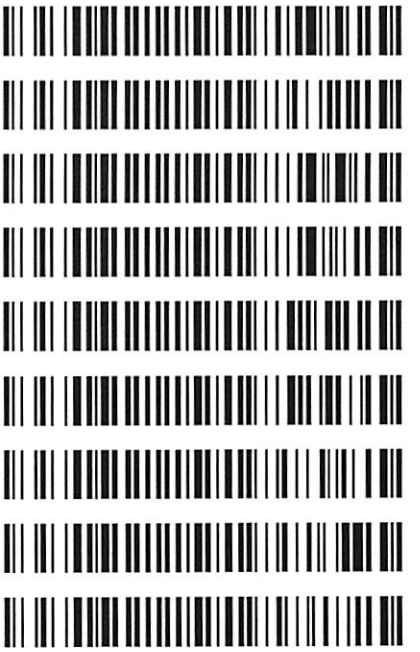
~Any information on this document can be changed for laboratory use, except for the precision and mean determination fomulas.

JC

3/29/2018

Worklist: 2299

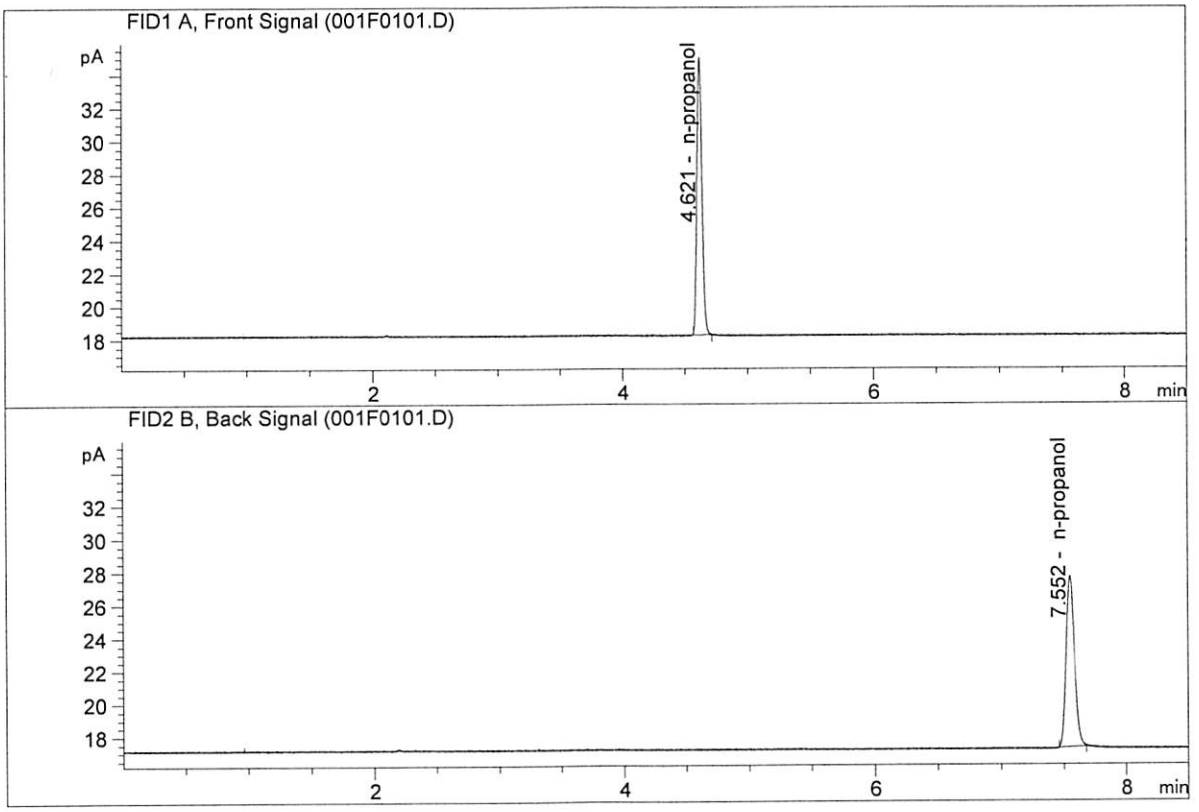
LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2018-1258	1	109959	Alcohol Analysis
M2018-1347	1	110287	Alcohol Analysis
M2018-1373	1	110360	Alcohol Analysis
M2018-1374	1	110361	Alcohol Analysis
M2018-1374	2	110992	Alcohol Analysis
M2018-1374	3	110996	Alcohol Analysis
M2018-1394	1	110384	Alcohol Analysis
M2018-1395	1	110385	Alcohol Analysis
M2018-1418	1	110625	Alcohol Analysis



JC

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Mar 27, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

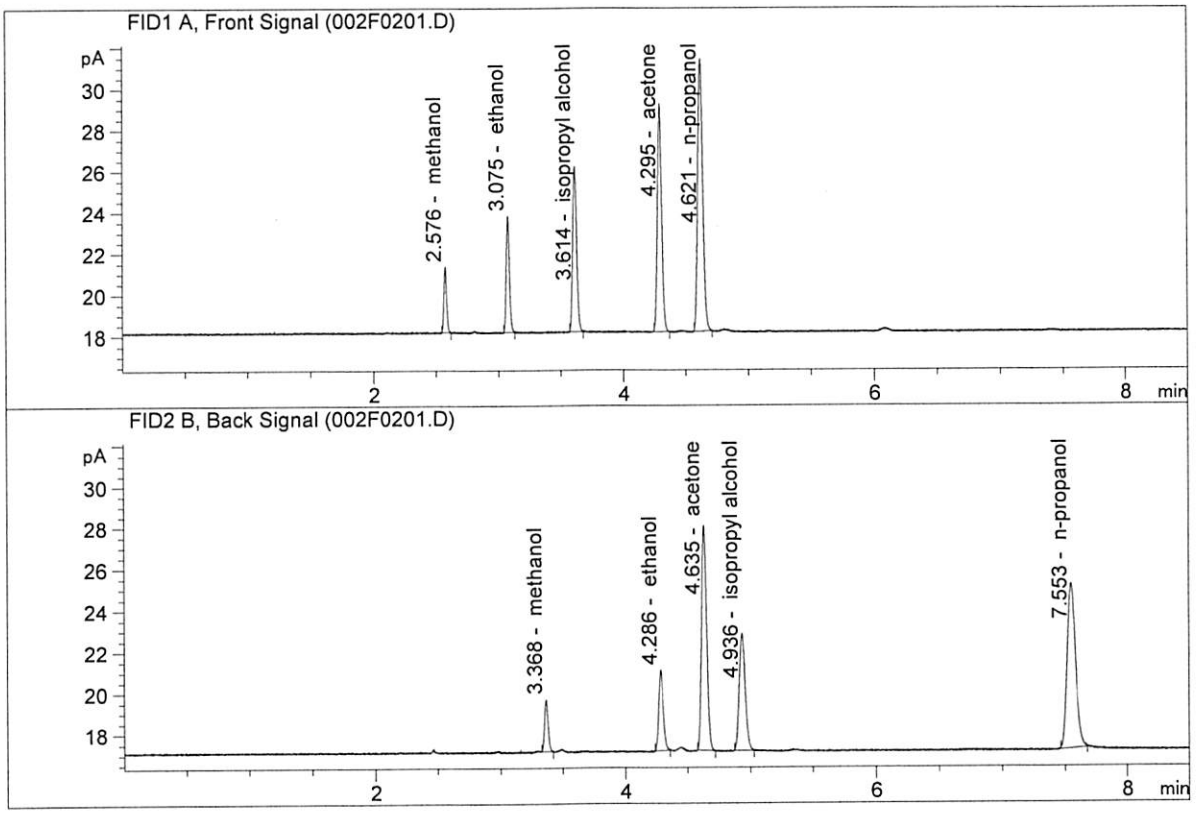


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	47.74450	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.82346	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN06041503
Laboratory : Meridian
Injection Date : Mar 27, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	9.95743	0.1422	g/100cc
2.	Ethanol	Column 2:	10.27188	0.1430	g/100cc
3.	n-Propanol	Column 1:	37.16956	1.0000	g/100cc
4.	n-Propanol	Column 2:	38.00542	1.0000	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 27 Mar 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0805	0.0816	0.0011	0.0810	0.0813	
(g/100cc)	0.0814	0.0818	0.0004	0.0816		

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: MDL600HC11378

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

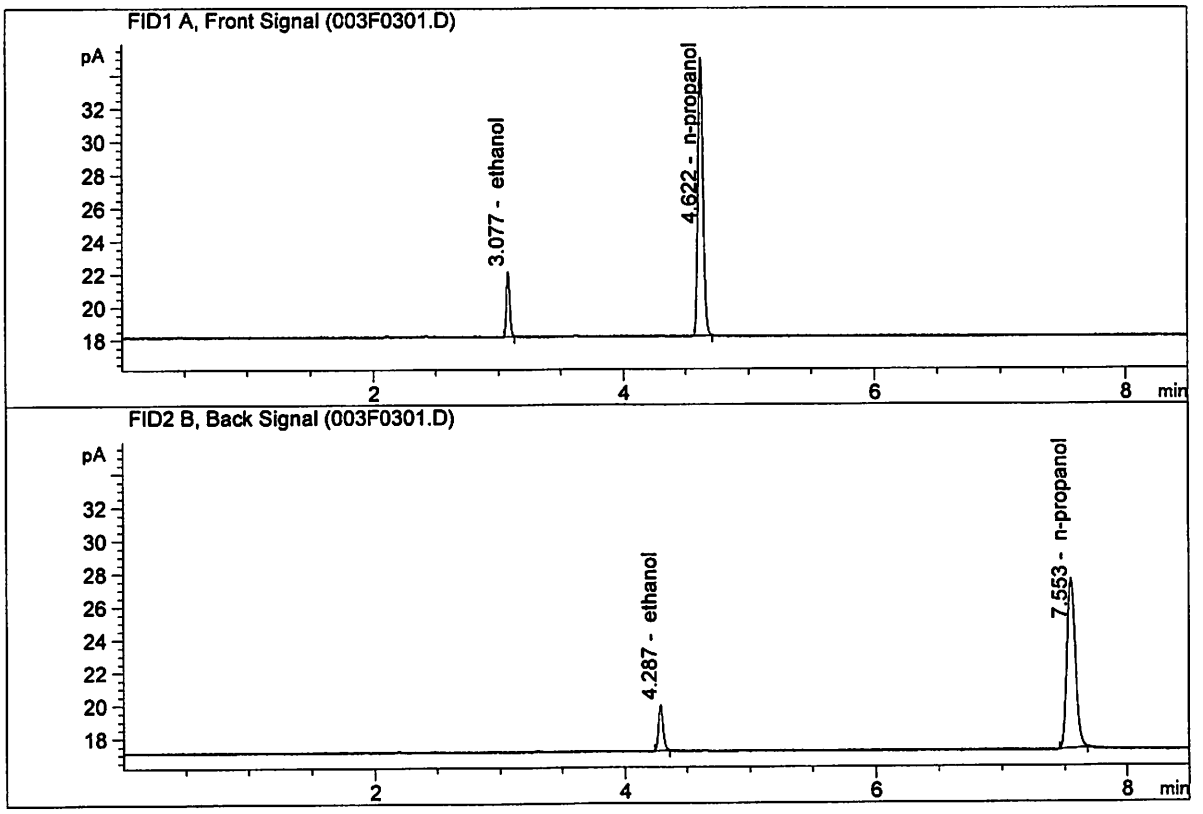
0.081

Calibration and control data are stored centrally.

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
Laboratory : Meridian
Injection Date : Mar 27, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

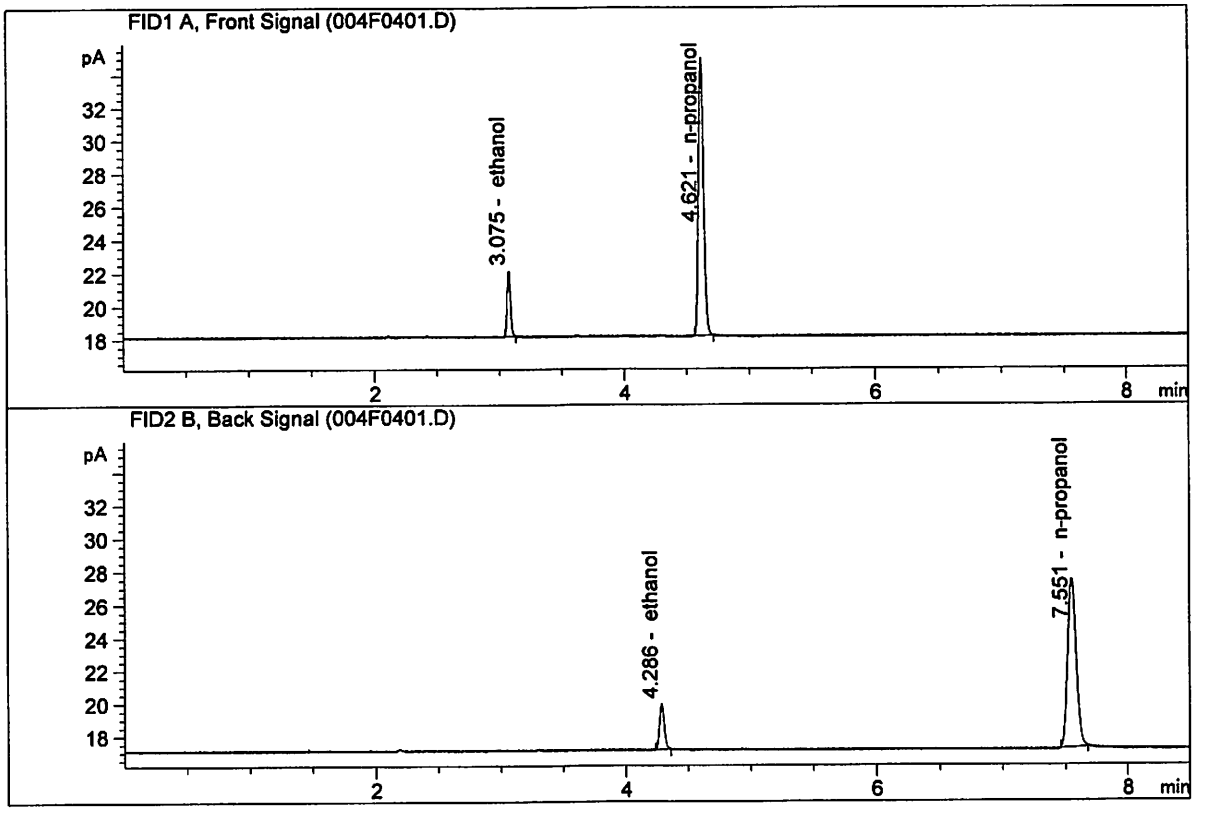


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.21191	0.0805	g/100cc
2.	Ethanol	Column 2:	7.38695	0.0816	g/100cc
3.	n-Propanol	Column 1:	47.91981	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.32330	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
Laboratory : Meridian
Injection Date : Mar 27, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.29395	0.0814	g/100cc
2.	Ethanol	Column 2:	7.38100	0.0818	g/100cc
3.	n-Propanol	Column 1:	47.90841	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.16184	1.0000	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN10281510 **Analysis Date(s): 27 Mar 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0813	0.0823	0.0010	0.0818	0.0824	
(g/100cc)	0.0831	0.0829	0.0002	0.0830		

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: MDL600HC11378

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

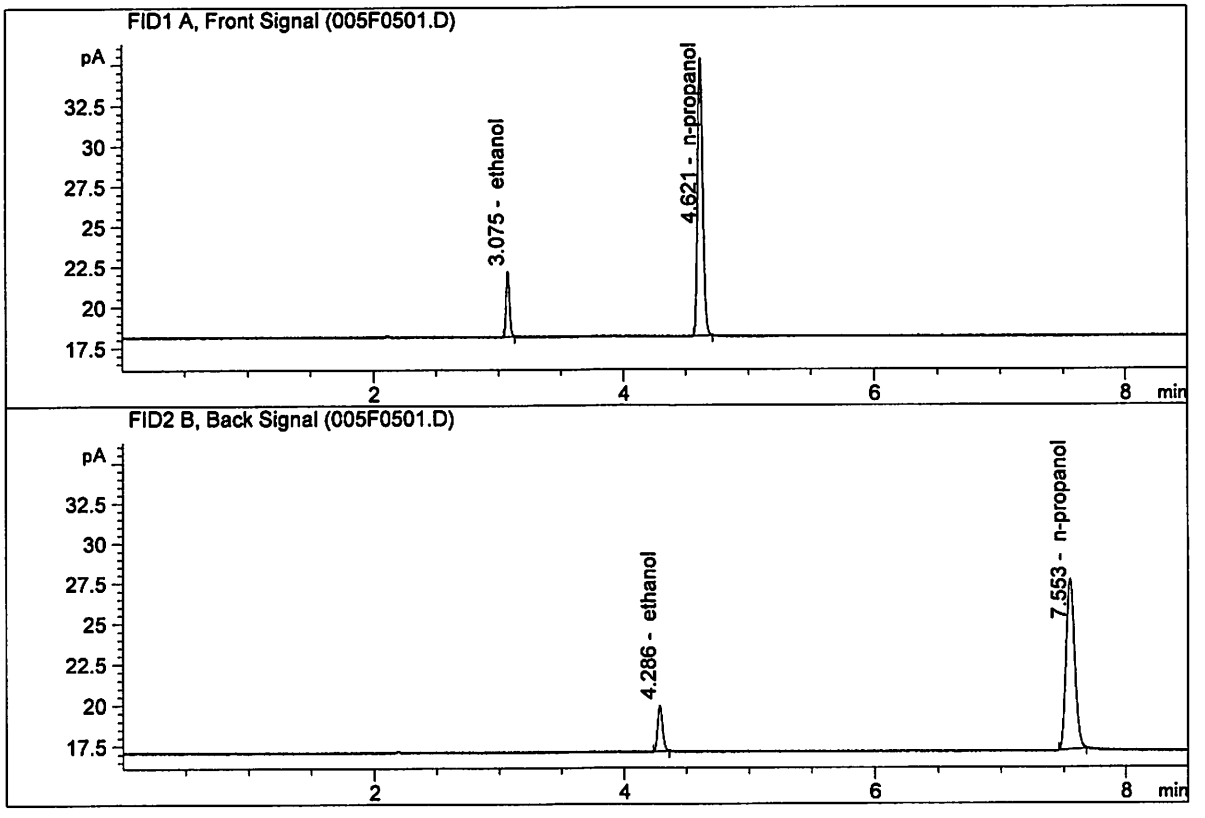
0.082

Calibration and control data are stored centrally.

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-A
Laboratory : Meridian
Injection Date : Mar 27, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

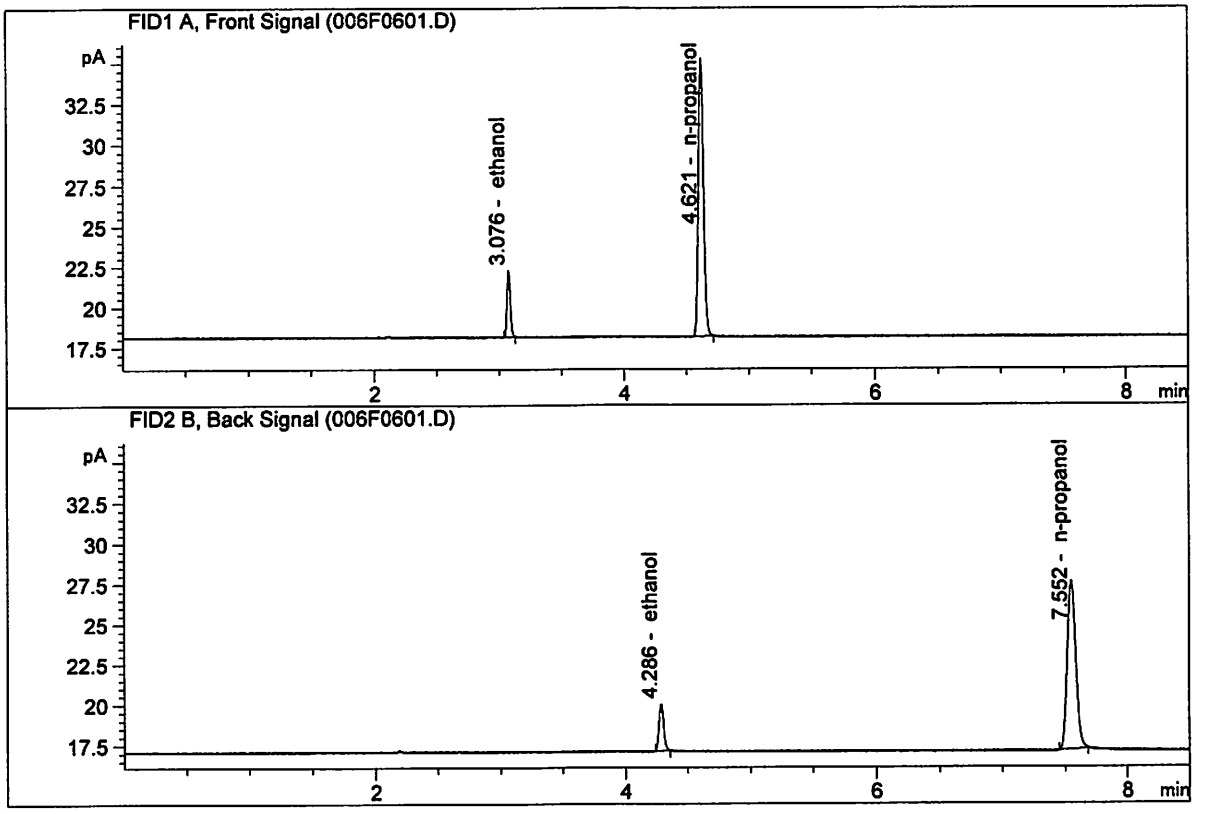


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.42796	0.0813	g/100cc
2.	Ethanol	Column 2:	7.57021	0.0823	g/100cc
3.	n-Propanol	Column 1:	48.85620	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.12160	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-B
Laboratory : Meridian
Injection Date : Mar 27, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.56583	0.0831	g/100cc
2.	Ethanol	Column 2:	7.61100	0.0829	g/100cc
3.	n-Propanol	Column 1:	48.66735	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.00954	1.0000	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 27 Mar 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2059	0.2054	0.0005	0.2056	0.2067	
(g/100cc)	0.2076	0.2081	0.0005	0.2078		

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: MDL600HC11378

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

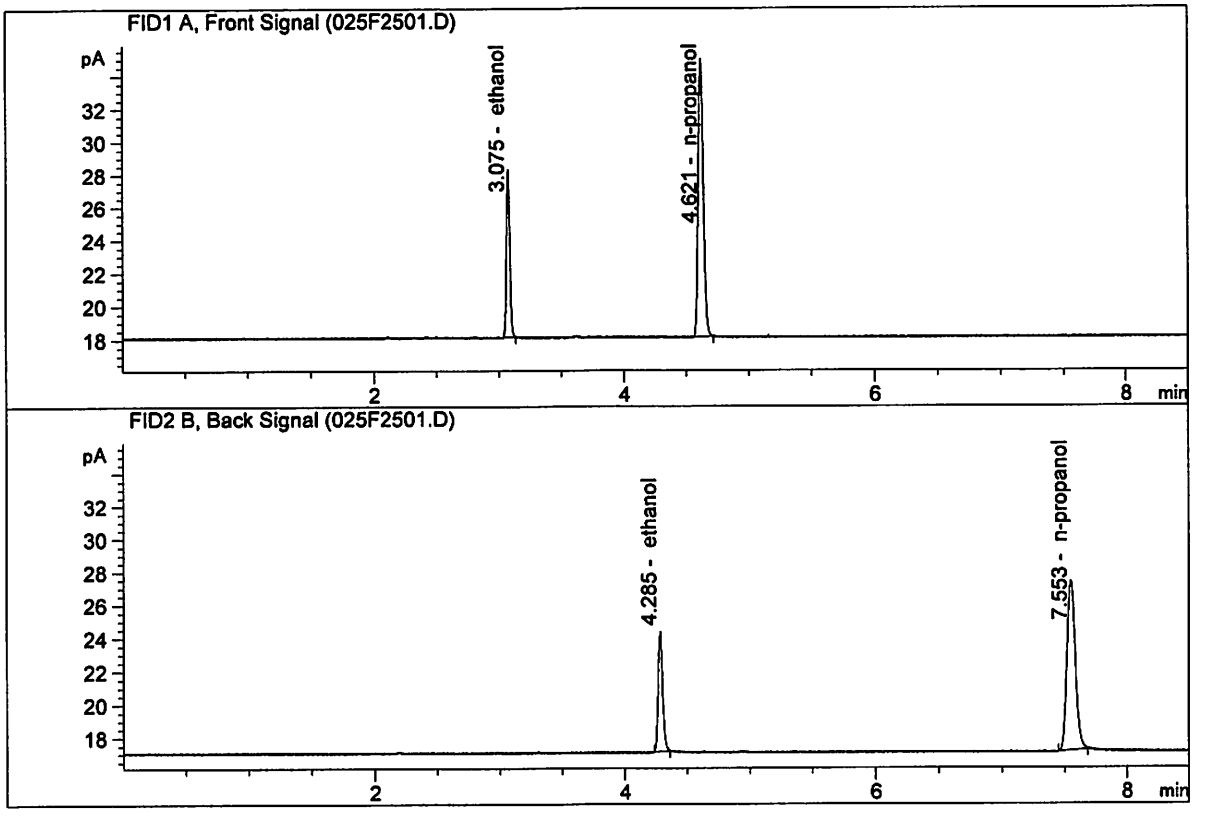
0.206

Calibration and control data are stored centrally.

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A
Laboratory : Meridian
Injection Date : Mar 27, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

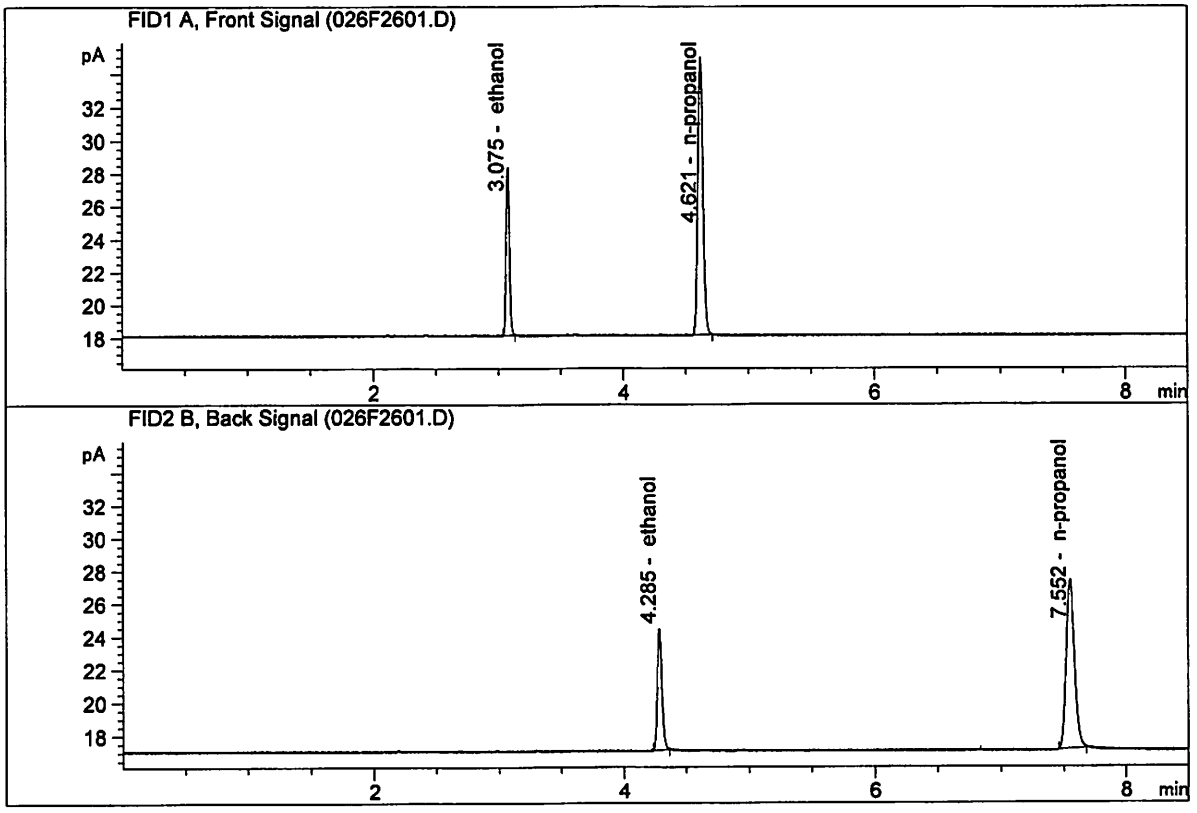


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.63959	0.2059	g/100cc
2.	Ethanol	Column 2:	19.26052	0.2054	g/100cc
3.	n-Propanol	Column 1:	47.93281	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.00506	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
Laboratory : Meridian
Injection Date : Mar 27, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

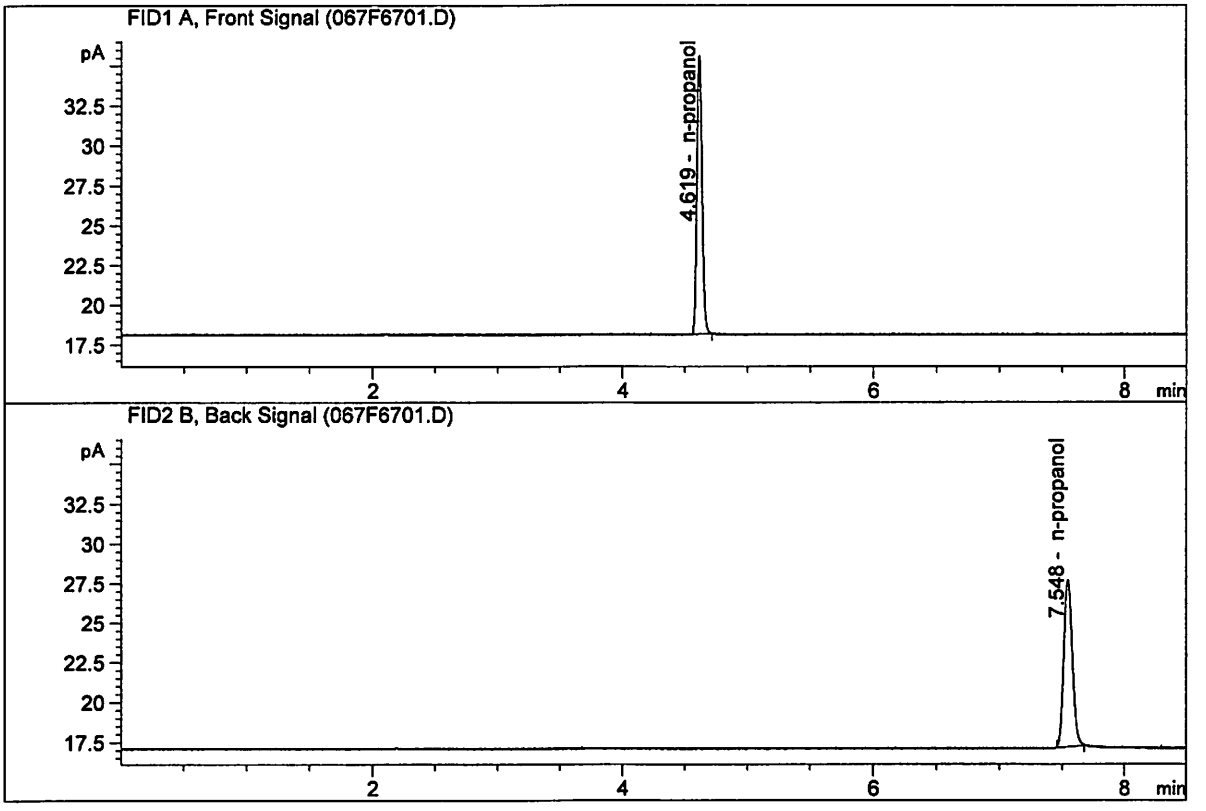


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.75812	0.2076	g/100cc
2.	Ethanol	Column 2:	19.38082	0.2081	g/100cc
3.	n-Propanol	Column 1:	47.85427	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.67107	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Mar 28, 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:	49.45375	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.13685	1.0000	g/100cc

JL

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Analysis Date(s): 27 Mar 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0903	0.0920	0.0017	0.0911	0.0885	
(g/100cc)	0.0854	0.0864	0.0010	0.0859		

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: MDL600HC11378

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.088	**0.083**	**0.093**	**0.005**

	Reported Result	
	0.088	

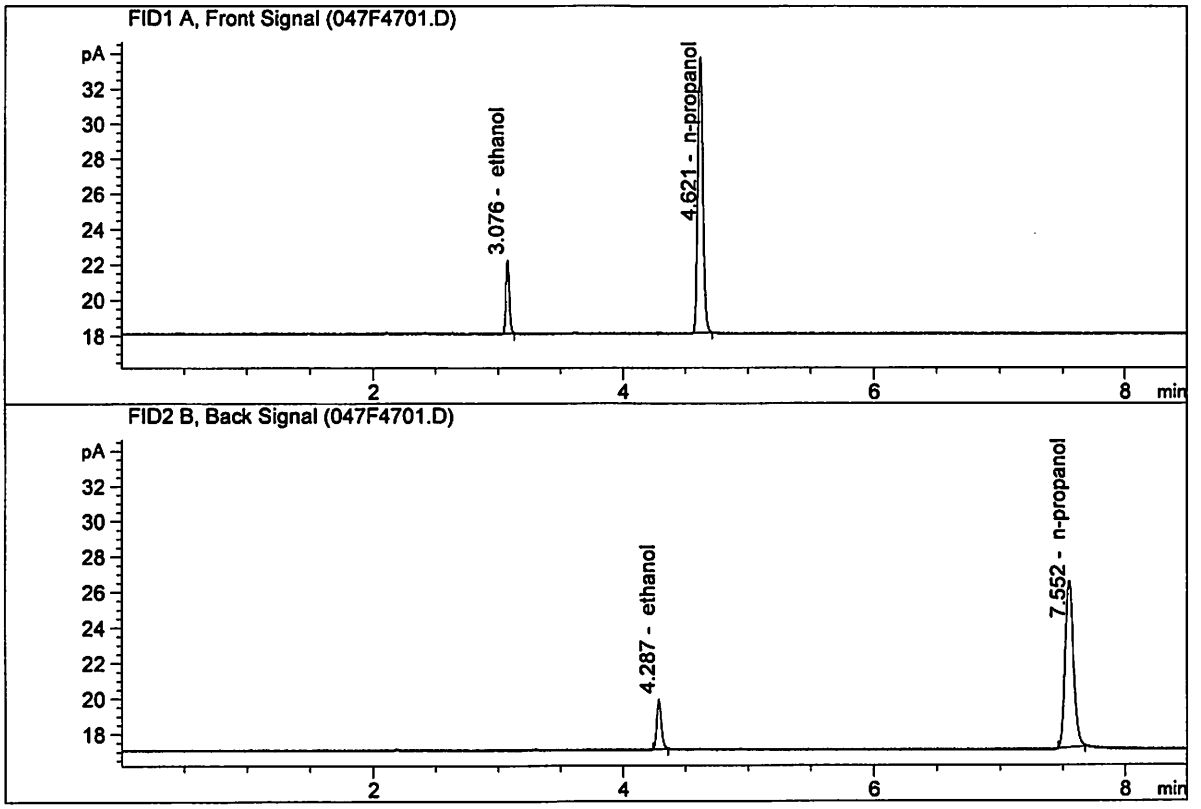
Calibration and control data are stored centrally.

QC failed.

All associated samples will be re-run.

ISP Forensic Services Blood Alcohol Report

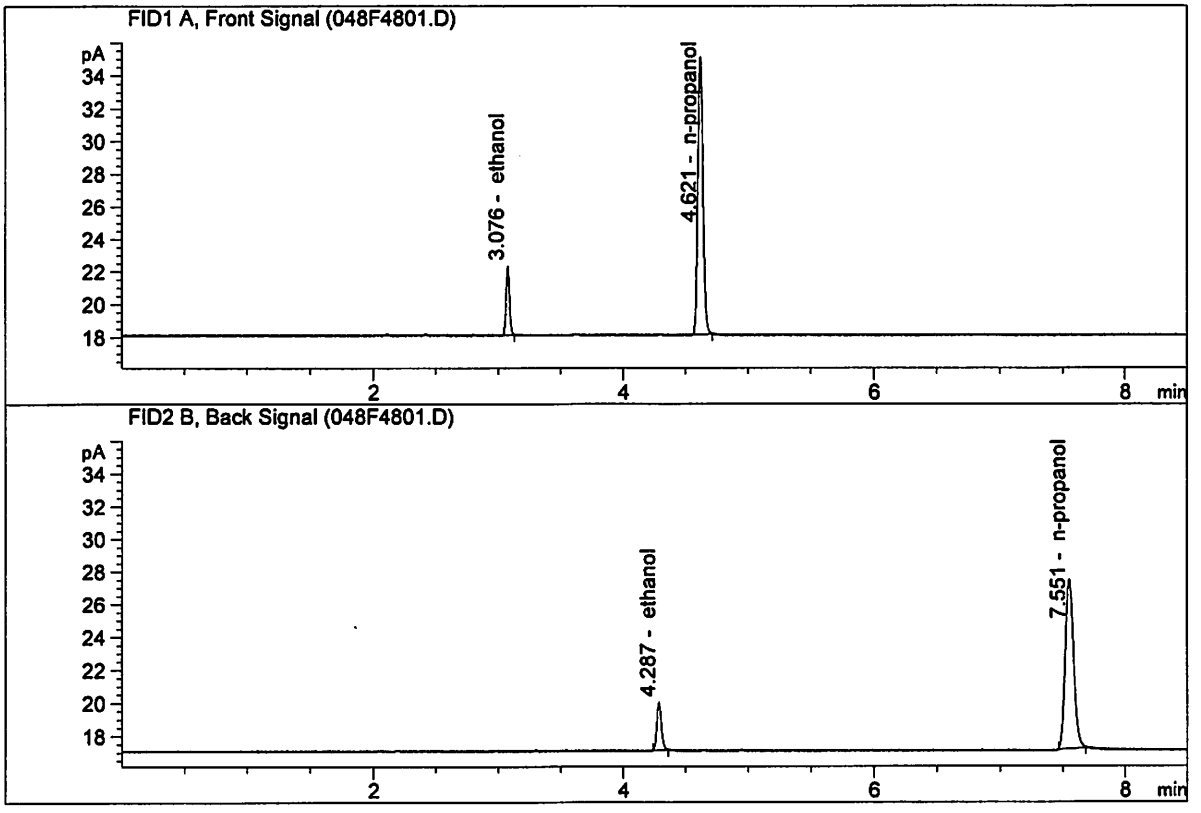
Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : Mar 27, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.51911	0.0903	g/100cc
2.	Ethanol	Column 2:	7.64379	0.0920	g/100cc
3.	n-Propanol	Column 1:	44.44490	1.0000	g/100cc
4.	n-Propanol	Column 2:	44.94206	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : Mar 28, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.70880	0.0854	g/100cc
2.	Ethanol	Column 2:	7.78107	0.0864	g/100cc
3.	n-Propanol	Column 1:	48.18688	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.90633	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-2 **Analysis Date(s): 28 Mar 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2095	0.2104	0.0009	0.2099	0.2115	
(g/100cc)	0.2125	0.2138	0.0013	0.2131		

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: MDL600HC11378

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.211	0.200	0.222	0.011

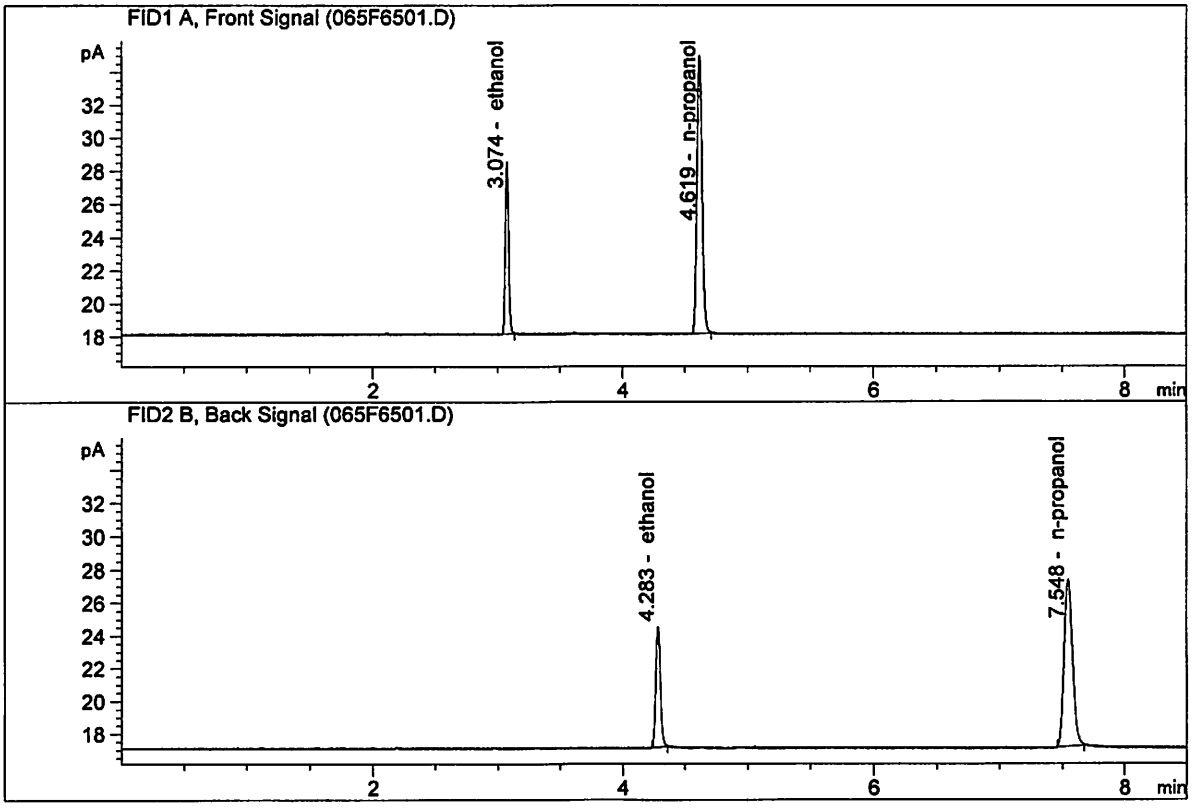
Reported Result

0.211

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

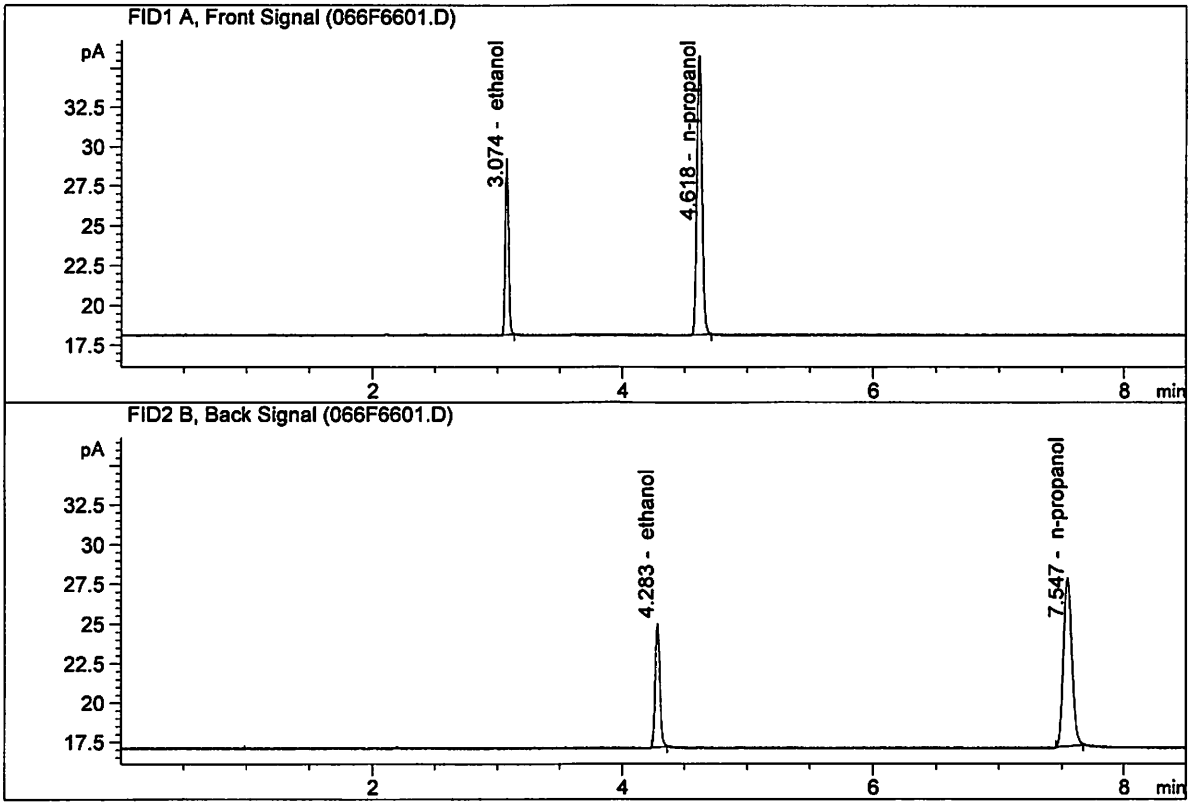
Sample Name : QC2-2-A
Laboratory : Meridian
Injection Date : Mar 28, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.89008	0.2095	g/100cc
2.	Ethanol	Column 2:	19.47380	0.2104	g/100cc
3.	n-Propanol	Column 1:	47.73680	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.34422	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-B
Laboratory : Meridian
Injection Date : Mar 28, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	20.05085	0.2125	g/100cc
2.	Ethanol	Column 2:	20.70221	0.2138	g/100cc
3.	n-Propanol	Column 1:	49.95304	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.55731	1.0000	g/100cc

Sequence File C:\Chem32\...8_SAMPLES\03-27-18_SAMPLES 2018-03-27 15-34-29\03-27-18_SAMPLES.S

Sample Summary

Sequence table: C:\Chem32\1\Data\03-27-18_SAMPLES\03-27-18_SAMPLES 2018-03-27 15-34-29\03 27-18_SAMPLES.S
Data directory path: C:\Chem32\1\Data\03-27-18_SAMPLES\03-27-18_SAMPLES 2018-03-27 15-34-29\
Logbook: C:\Chem32\1\Data\03-27-18_SAMPLES\03-27-18_SAMPLES 2018-03-27 15-34-29\03 27-18_SAMPLES.LOG
Sequence start: 3/27/2018 3:49:21 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\03-27-18_SAMPLES\03-27-18_SAMPLES 2018-03-27 15-34-29 \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 FN060415	-	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	M2018-1258-1-A	-	1.0000	007F0701.D	4
8	8	1	M2018-1258-1-B	-	1.0000	008F0801.D	4
9	9	1	M2018-1347-1-A	-	1.0000	009F0901.D	6
10	10	1	M2018-1347-1-B	-	1.0000	010F1001.D	6
11	11	1	M2018-1373-1-A	-	1.0000	011F1101.D	6
12	12	1	M2018-1373-1-B	-	1.0000	012F1201.D	6
13	13	1	M2018-1374-1-A	-	1.0000	013F1301.D	2
14	14	1	M2018-1374-1-B	-	1.0000	014F1401.D	2
15	15	1	M2018-1374-2-A	-	1.0000	015F1501.D	2
16	16	1	M2018-1374-2-B	-	1.0000	016F1601.D	2
17	17	1	M2018-1374-3-A	-	1.0000	017F1701.D	2
18	18	1	M2018-1374-3-B	-	1.0000	018F1801.D	2
19	19	1	M2018-1394-1-A	-	1.0000	019F1901.D	6
20	20	1	M2018-1394-1-B	-	1.0000	020F2001.D	6
21	21	1	M2018-1395-1-A	-	1.0000	021F2101.D	2
22	22	1	M2018-1395-1-B	-	1.0000	022F2201.D	2
23	23	1	M2018-1418-1-A	-	1.0000	023F2301.D	4
24	24	1	M2018-1418-1-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	M2018-1419-1-A	-	1.0000	027F2701.D	6
28	28	1	M2018-1419-1-B	-	1.0000	028F2801.D	6
29	29	1	M2018-1420-1-A	-	1.0000	029F2901.D	4
30	30	1	M2018-1420-1-B	-	1.0000	030F3001.D	4
31	31	1	M2018-1421-1-A	-	1.0000	031F3101.D	4
32	32	1	M2018-1421-1-B	-	1.0000	032F3201.D	4
33	33	1	M2018-1422-1-A	-	1.0000	033F3301.D	4
34	34	1	M2018-1422-1-B	-	1.0000	034F3401.D	4
35	35	1	M2018-1444-1-A	-	1.0000	035F3501.D	6
36	36	1	M2018-1444-1-B	-	1.0000	036F3601.D	6
37	37	1	M2018-1445-1-A	-	1.0000	037F3701.D	6
38	38	1	M2018-1445-1-B	-	1.0000	038F3801.D	6
39	39	1	M2018-1446-1-A	-	1.0000	039F3901.D	6
40	40	1	M2018-1446-1-B	-	1.0000	040F4001.D	6
41	41	1	M2018-1470-1-A	-	1.0000	041F4101.D	6
42	42	1	M2018-1470-1-B	-	1.0000	042F4201.D	6
43	43	1	M2018-1472-1-A	-	1.0000	043F4301.D	6

Rerun due to failed control JC

JC

Sequence File C:\Chem32\...8_SAMPLES\03-27-18_SAMPLES 2018-03-27 15-34-29\03-27-18_SAMPLES.S

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
44	44	1	M2018-1472-1-B	-	1.0000	044F4401.D	6
45	45	1	M2018-1502-1-A	-	1.0000	045F4501.D	4
46	46	1	M2018-1502-1-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	M2018-1503-1-A	-	1.0000	049F4901.D	4
50	50	1	M2018-1503-1-B	-	1.0000	050F5001.D	5
51	51	1	M2018-1504-1-A	-	1.0000	051F5101.D	6
52	52	1	M2018-1504-1-B	-	1.0000	052F5201.D	6
53	53	1	M2018-1505-1-A	-	1.0000	053F5301.D	4
54	54	1	M2018-1505-1-B	-	1.0000	054F5401.D	4
55	55	1	M2018-1507-1-A	-	1.0000	055F5501.D	2
56	56	1	M2018-1507-1-B	-	1.0000	056F5601.D	2
57	57	1	M2018-1509-1-A	-	1.0000	057F5701.D	6
58	58	1	M2018-1509-1-B	-	1.0000	058F5801.D	6
59	59	1	M2018-1510-1-A	-	1.0000	059F5901.D	6
60	60	1	M2018-1510-1-B	-	1.0000	060F6001.D	6
61	61	1	P2018-0772-1-A	-	1.0000	061F6101.D	3
62	62	1	P2018-0772-1-B	-	1.0000	062F6201.D	3
63	63	1	P2018-0774-1-A	-	1.0000	063F6301.D	6
64	64	1	P2018-0774-1-B	-	1.0000	064F6401.D	6
65	65	1	QC2-2-A	-	1.0000	065F6501.D	4
66	66	1	QC2-2-B	-	1.0000	066F6601.D	4
67	67	1	INTERNAL STD BLK	-	1.0000	067F6701.D	2

Rerun due to failed control

Method file name: C:\Chem32\1\Data\03-27-18_SAMPLES\03-27-18_SAMPLES 2018-03-27 15-34-29\SHUTDOWN.M

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

JC