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: 03/28/18**

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	0.0800 g/100cc
					0.0840 g/100cc
					g/100cc
Level 2	Jul-18	1407032	0.2020	0.1818-.2222	0.2001 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.

Issued: 4/22/2015

Volatiles QA/QC data spreadsheet Rev 5

Issuing Authority: Quality Manager

JC

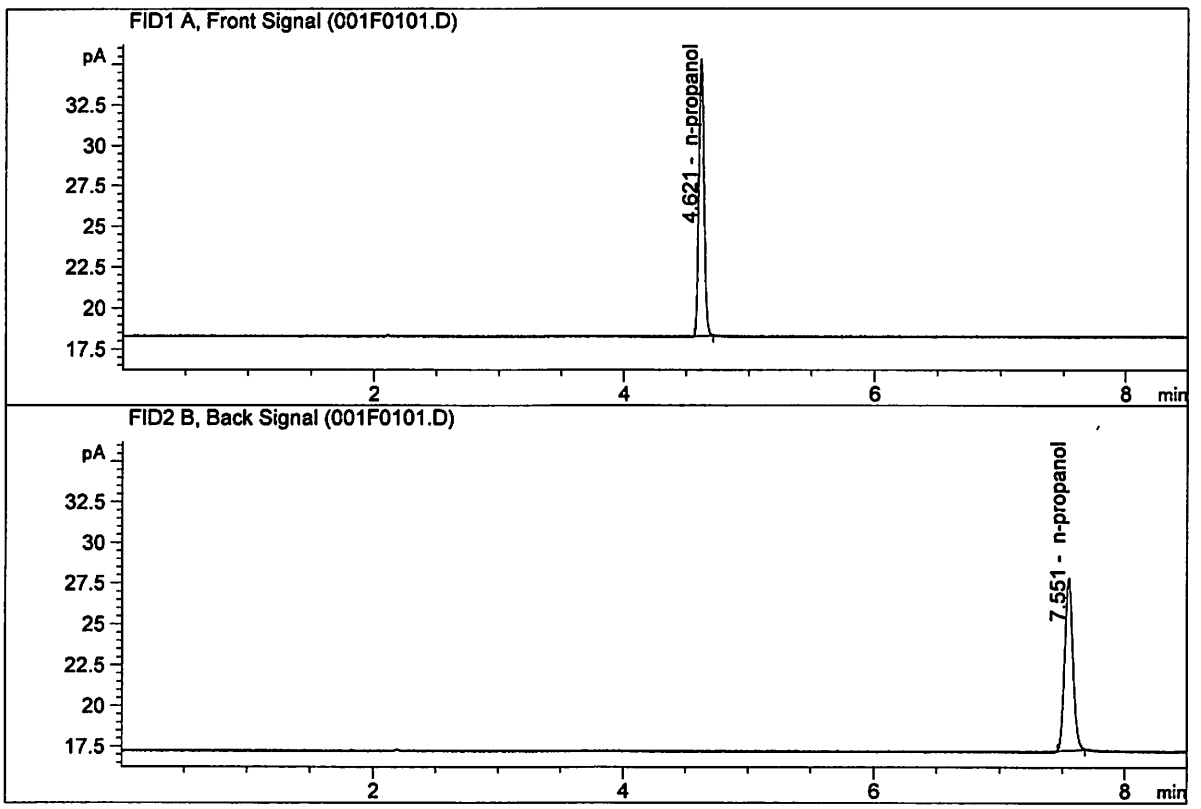
Worklist: 2298

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2018-1419	1	110626	Alcohol Analysis
M2018-1420	1	110627	Alcohol Analysis
M2018-1421	1	110628	Alcohol Analysis
M2018-1422	1	110632	Alcohol Analysis
M2018-1444	1	110668	Alcohol Analysis
M2018-1445	1	110670	Alcohol Analysis
M2018-1446	1	110679	Alcohol Analysis
M2018-1470	1	110785	Alcohol Analysis
M2018-1472	1	110788	Alcohol Analysis
M2018-1502	1	110868	Alcohol Analysis
M2018-1503	1	110869	Alcohol Analysis
M2018-1504	1	110870	Alcohol Analysis
M2018-1505	1	110871	Alcohol Analysis
M2018-1507	1	110921	Alcohol Analysis
M2018-1509	1	110944	Alcohol Analysis
M2018-1510	1	110945	Alcohol Analysis
P2018-0772	1	109963	Alcohol Analysis
P2018-0774	1	109970	Alcohol Analysis

JL

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Mar 28, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

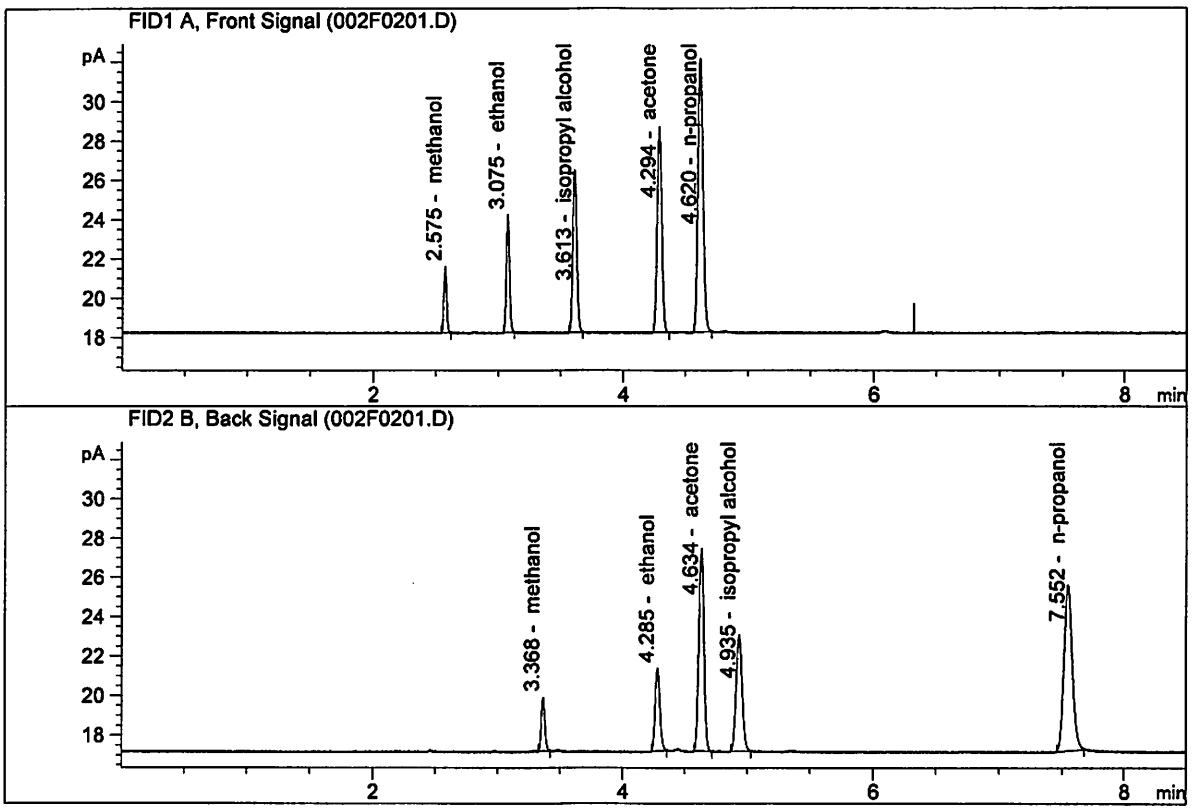


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	48.44152	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.62483	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN06041503
Laboratory : Meridian
Injection Date : Mar 28, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.70614	0.1455	g/100cc
2.	Ethanol	Column 2:	11.04043	0.1460	g/100cc
3.	n-Propanol	Column 1:	39.06255	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.97857	1.0000	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 28 Mar 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0795	0.0806	0.0011	0.0800	0.0800	
(g/100cc)	0.0795	0.0806	0.0011	0.0800		

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
0.080	**0.076**	**0.084**	**0.004**

Reported Result

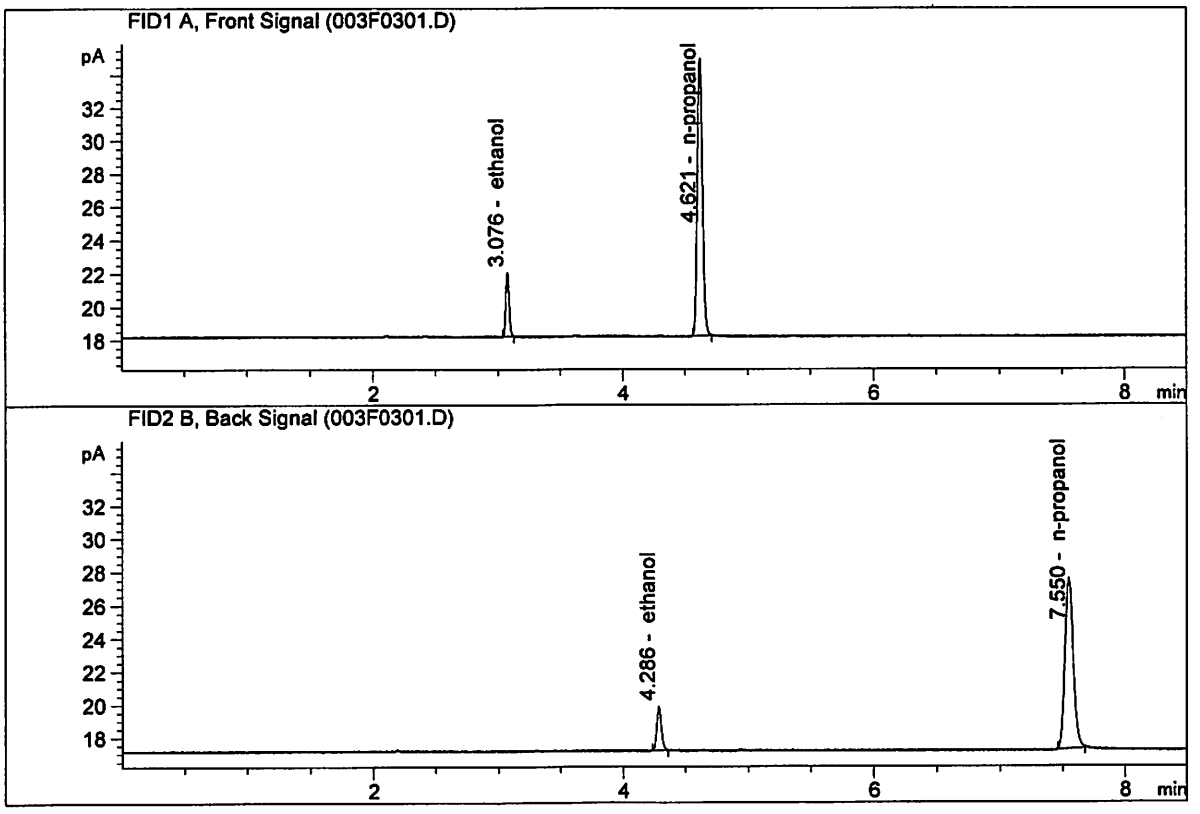
0.080

Calibration and control data are stored centrally.

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
Laboratory : Meridian
Injection Date : Mar 28, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

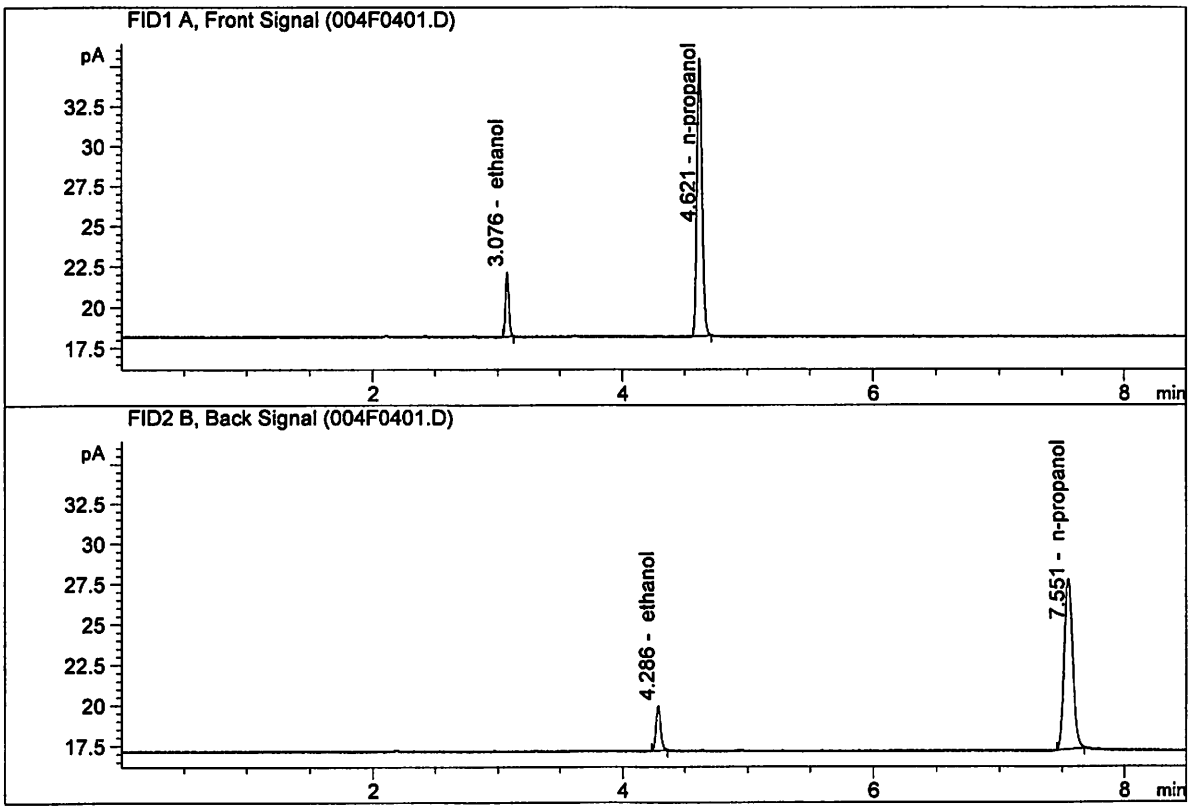


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.11588	0.0795	g/100cc
2.	Ethanol	Column 2:	7.28065	0.0806	g/100cc
3.	n-Propanol	Column 1:	47.85530	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.26459	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
Laboratory : Meridian
Injection Date : Mar 28, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.31306	0.0795	g/100cc
2.	Ethanol	Column 2:	7.47613	0.0806	g/100cc
3.	n-Propanol	Column 1:	49.19219	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.63366	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN10281510 **Analysis Date(s): 28 Mar 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0825	0.0833	0.0008	0.0829	0.0823	
(g/100cc)	0.0813	0.0823	0.0010	0.0818		

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**

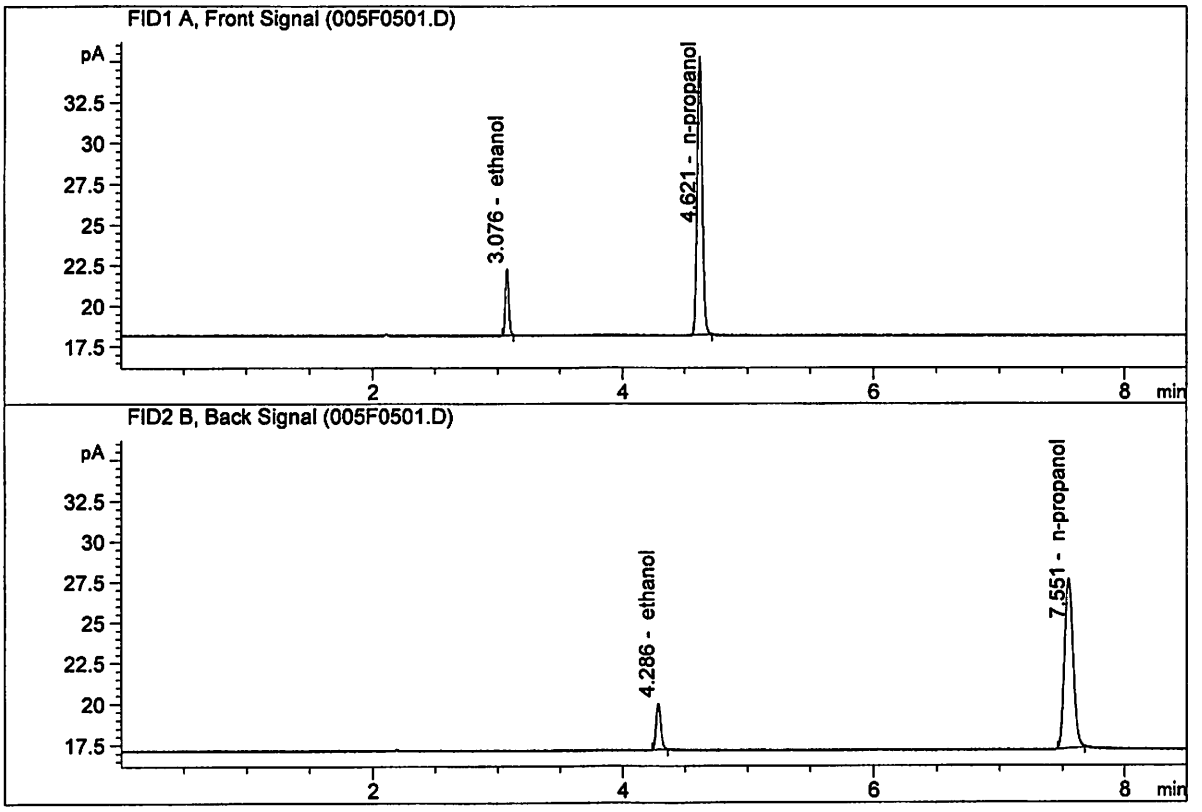
Reported Result

0.082

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-A
Laboratory : Meridian
Injection Date : Mar 28, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

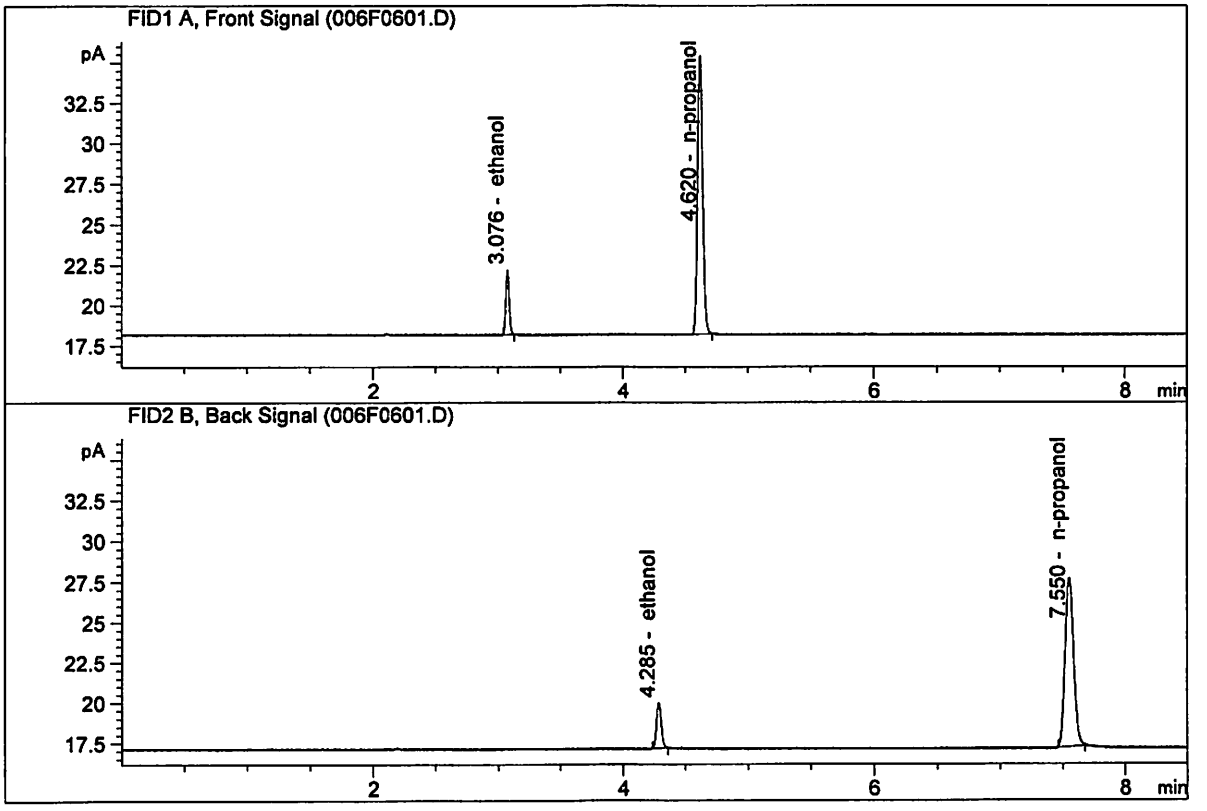


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.52049	0.0825	g/100cc
2.	Ethanol	Column 2:	7.64467	0.0833	g/100cc
3.	n-Propanol	Column 1:	48.74180	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.99095	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-B
Laboratory : Meridian
Injection Date : Mar 28, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.44361	0.0813	g/100cc
2.	Ethanol	Column 2:	7.58017	0.0823	g/100cc
3.	n-Propanol	Column 1:	48.96321	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.17154	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 28 Mar 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2093	0.2090	0.0003	0.2091	0.2071	
(g/100cc)	0.2051	0.2053	0.0002	0.2052		

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
0.207	**0.196**	**0.218**	**0.011**

Reported Result

0.207

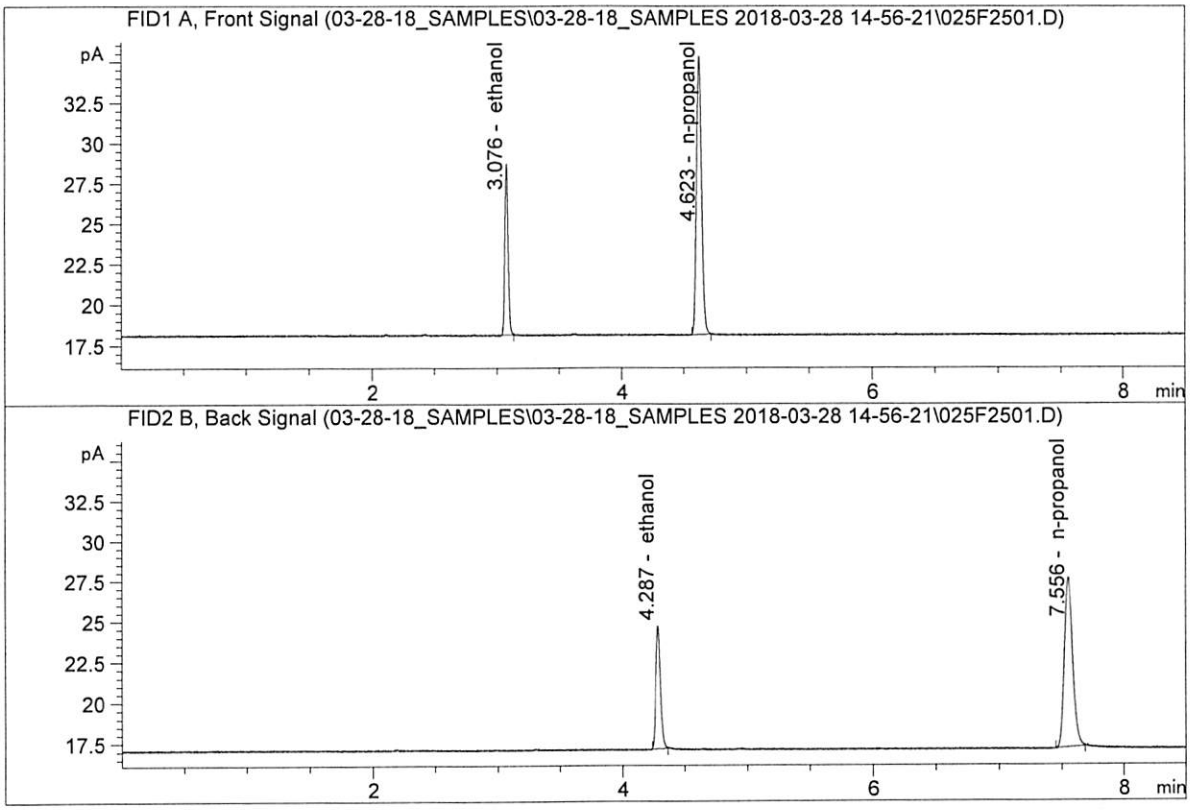
Calibration and control data are stored centrally.

JC

ISP Forensic Services Blood Alcohol Report

JL

Sample Name : ~~M2018-1502-1-A~~ QC-2-1 - A
Laboratory : Meridian
Injection Date : Mar 28, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

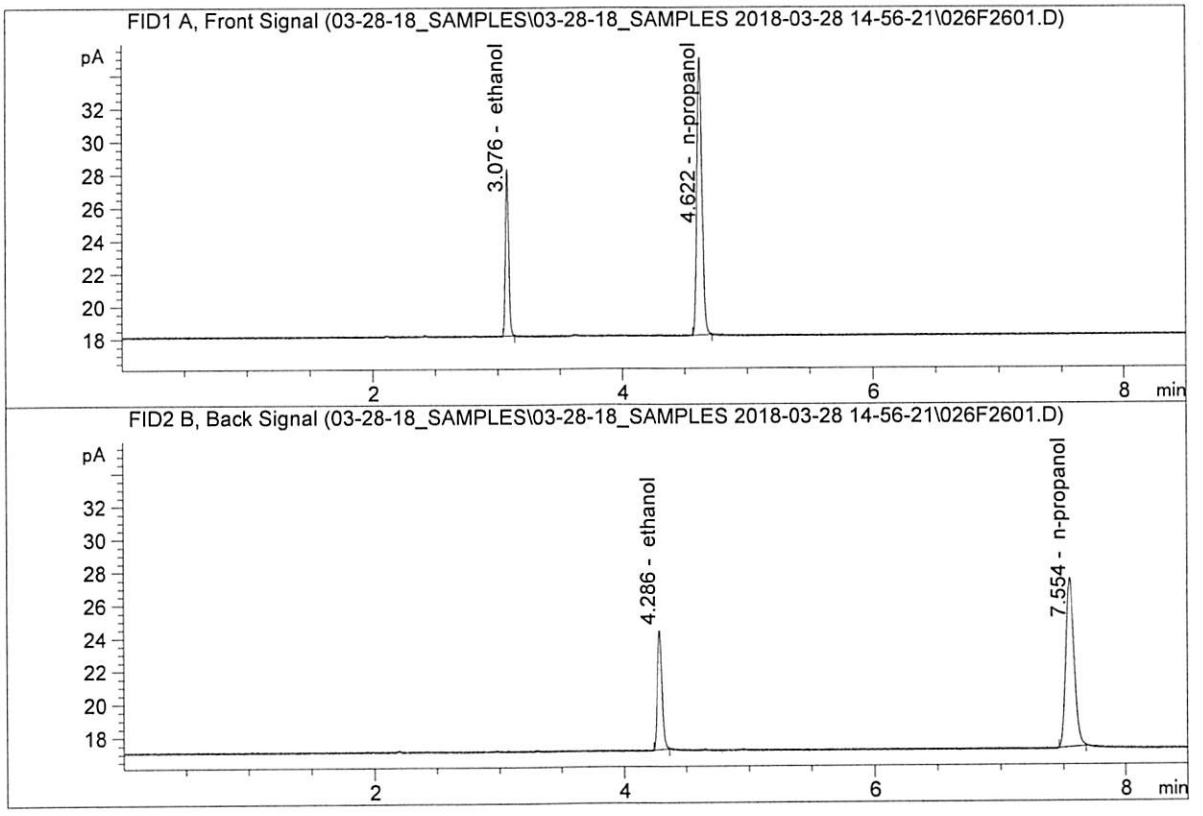


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.31375	0.2093	g/100cc
2.	Ethanol	Column 2:	20.01710	0.2090	g/100cc
3.	n-Propanol	Column 1:	48.86802	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.03233	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : ~~M2018-1502-1-B~~ QC-2-1-B
Laboratory : Meridian
Injection Date : Mar 28, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.57471	0.2051	g/100cc
2.	Ethanol	Column 2:	19.20867	0.2053	g/100cc
3.	n-Propanol	Column 1:	47.94998	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.89639	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: ~~QC2-2~~ QC1-2 **Analysis Date(s): 28 Mar 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0834	0.0845	0.0011	0.0839	0.0840	
(g/100cc)	0.0836	0.0847	0.0011	0.0841		

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
0.084	**0.079**	**0.089**	**0.005**

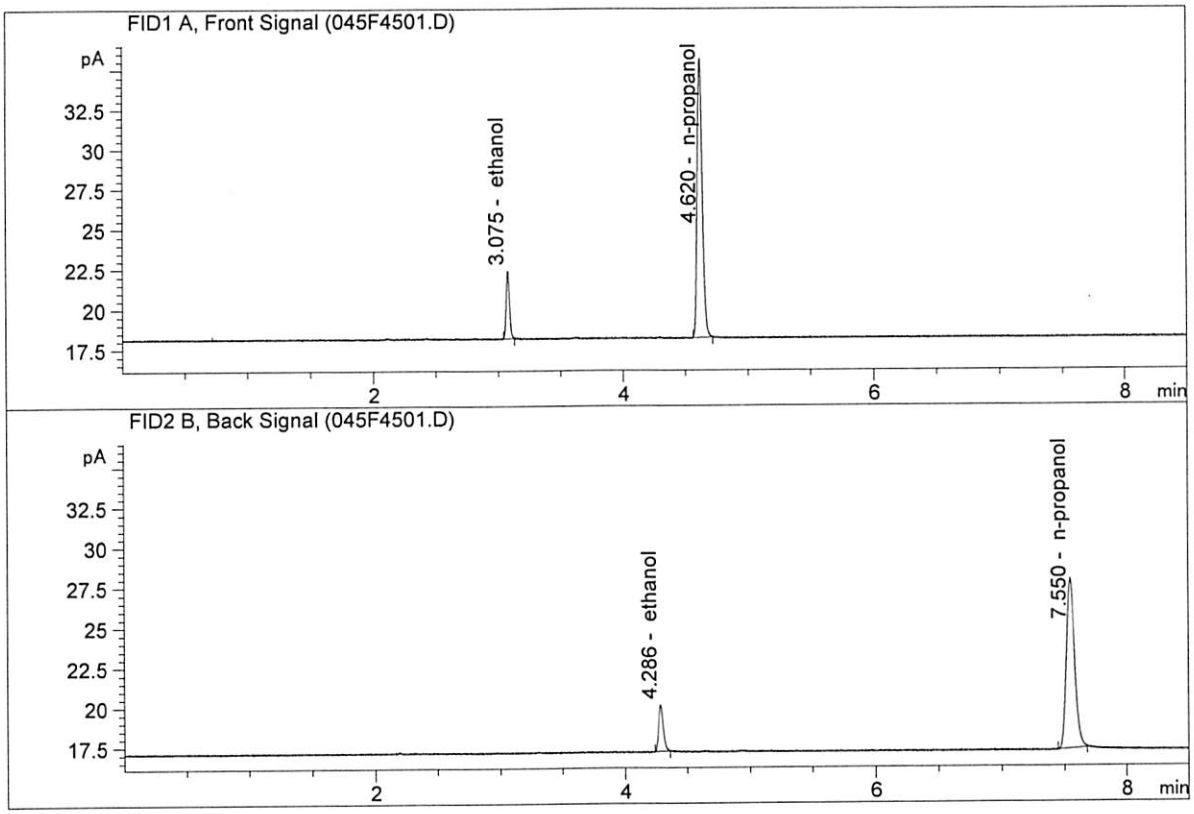
	Reported Result	
	0.084	

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : ~~QC2-2-A~~ JG QC1-2A
Laboratory : Meridian
Injection Date : Mar 28, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

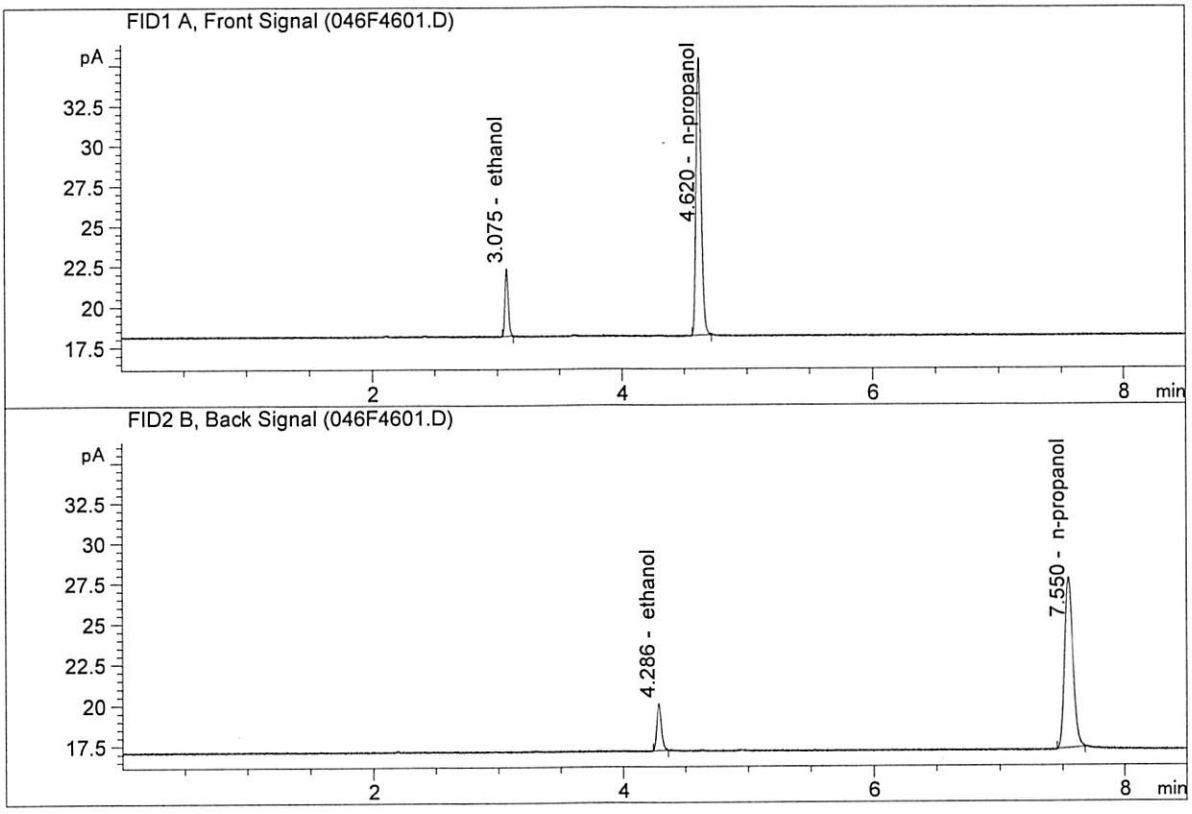


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.74711	0.0834	g/100cc
2.	Ethanol	Column 2:	7.88129	0.0845	g/100cc
3.	n-Propanol	Column 1:	49.63417	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.73330	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

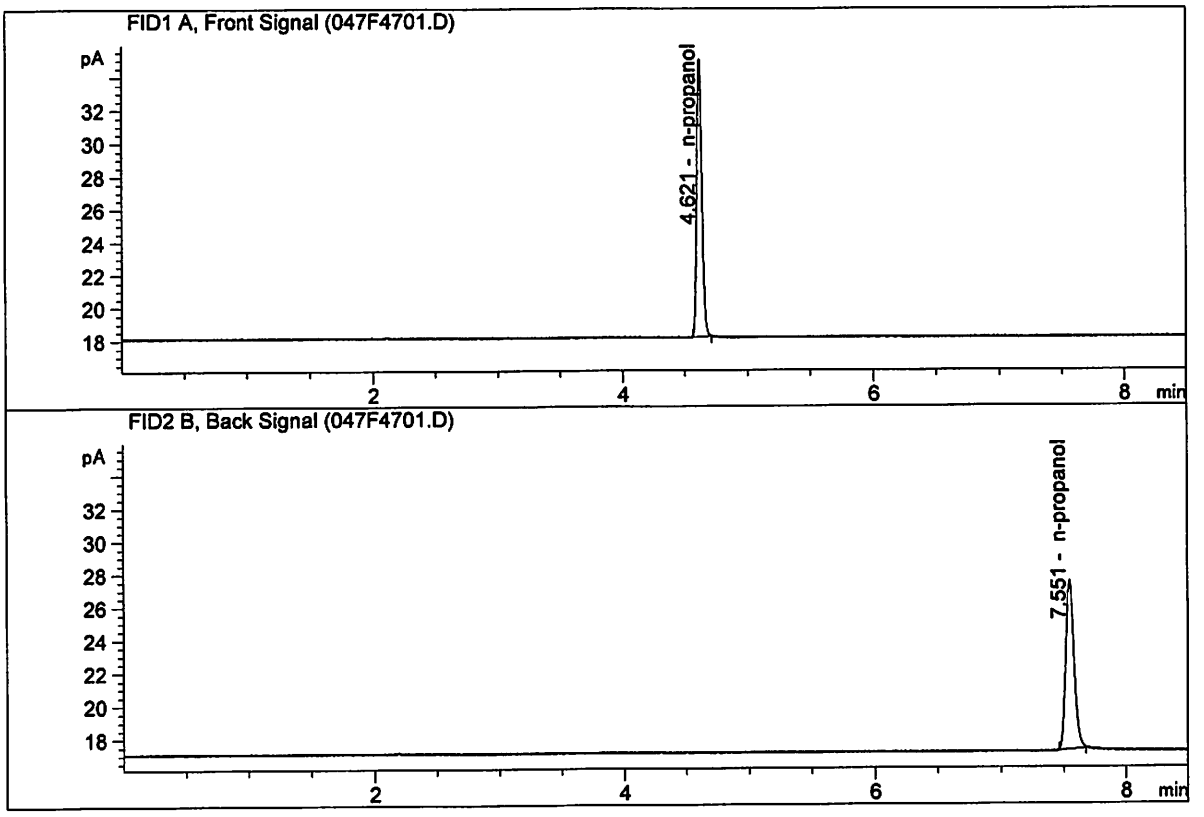
Sample Name : ~~QC2-2-B~~ QC1-2-B
Laboratory : Meridian
Injection Date : Mar 28, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.66641	0.0836	g/100cc
2.	Ethanol	Column 2:	7.78299	0.0847	g/100cc
3.	n-Propanol	Column 1:	49.00579	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.98096	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

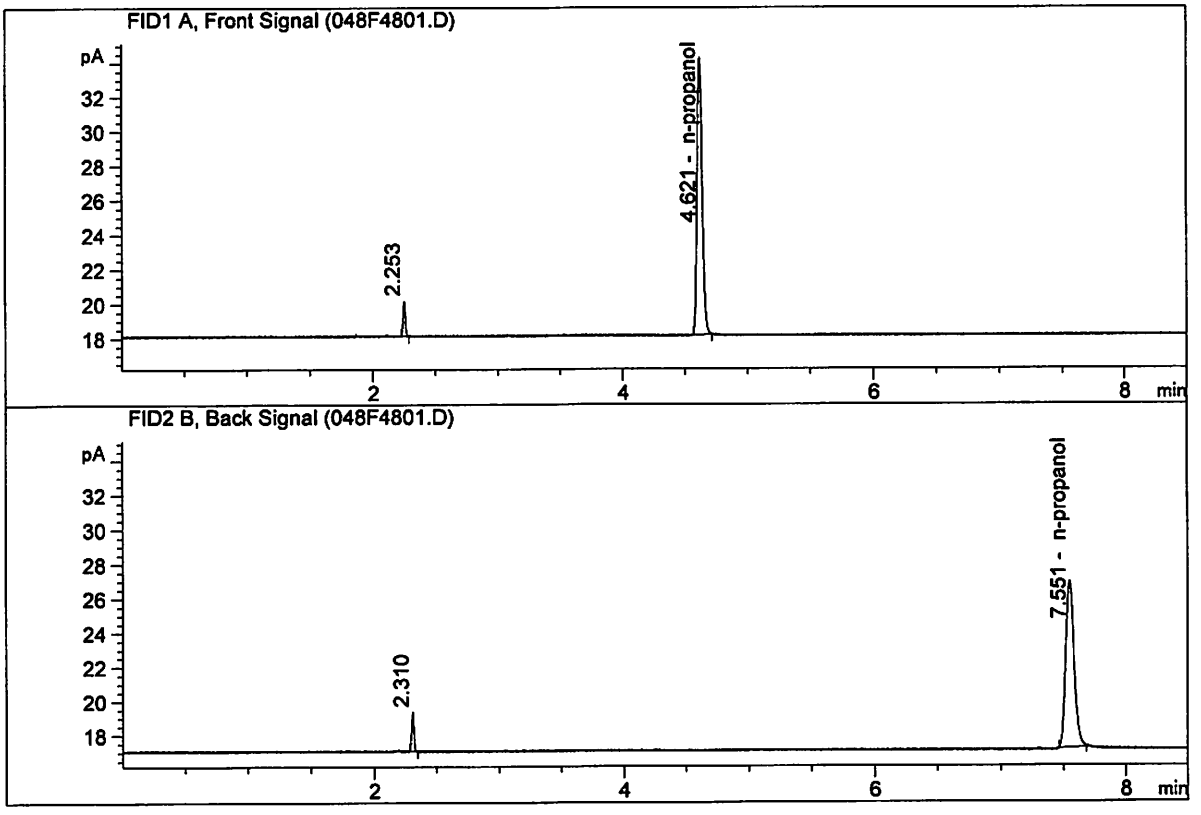
Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Mar 28, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	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:	47.94307	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.76476	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

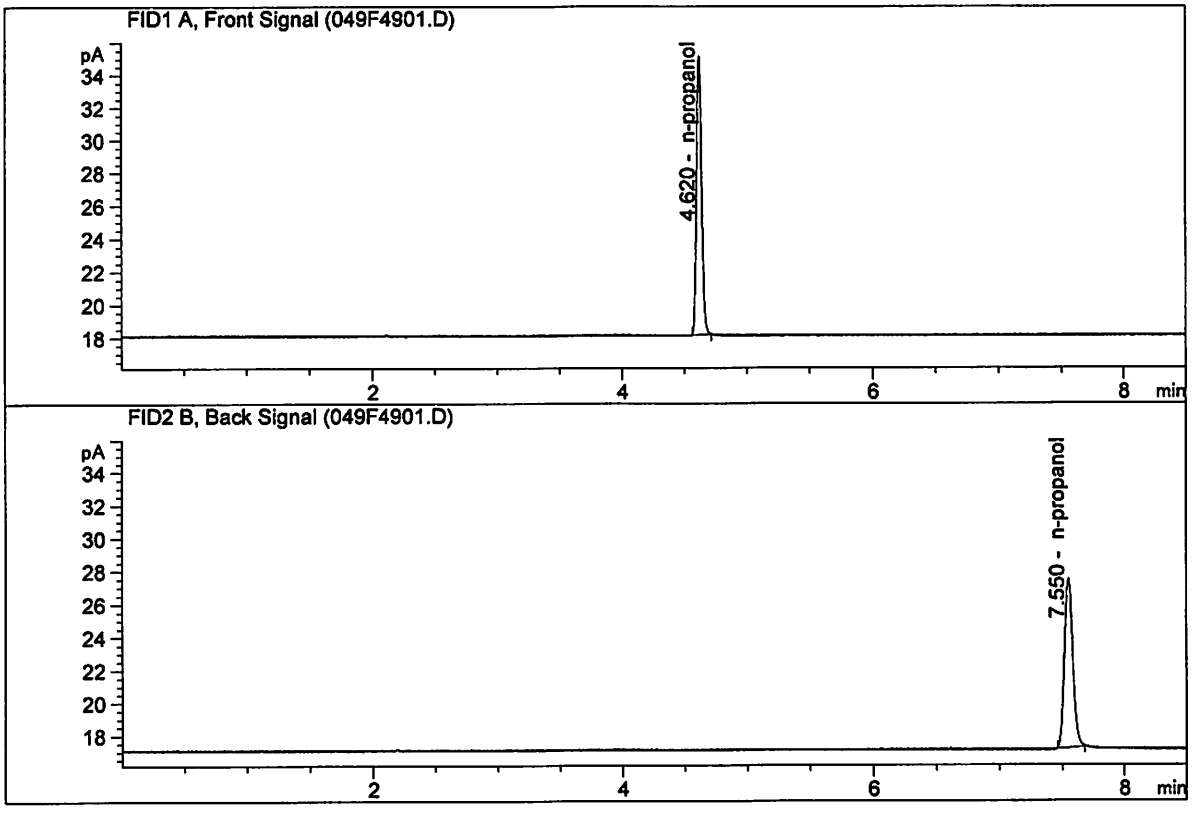
Sample Name : TFE 111914
Laboratory : Meridian
Injection Date : Mar 28, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	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:	45.75082	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.61782	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

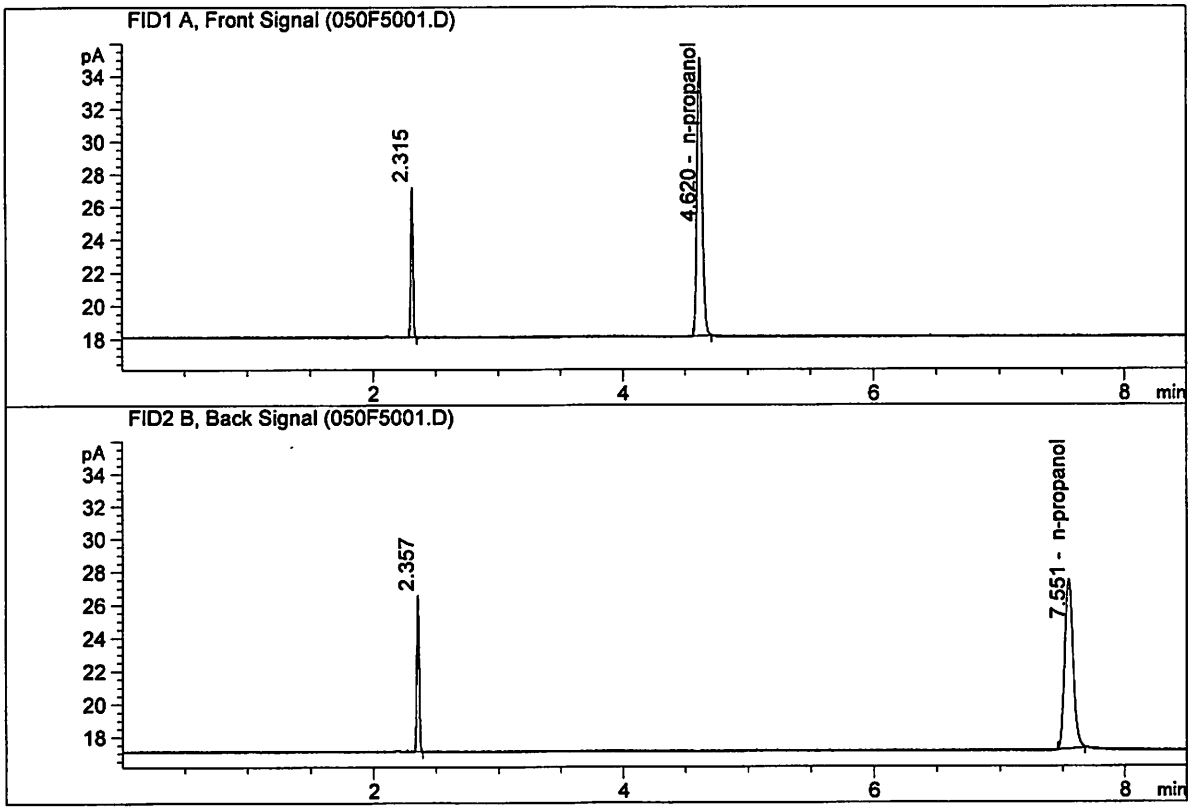
Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Mar 28, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	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:	48.20590	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.09029	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

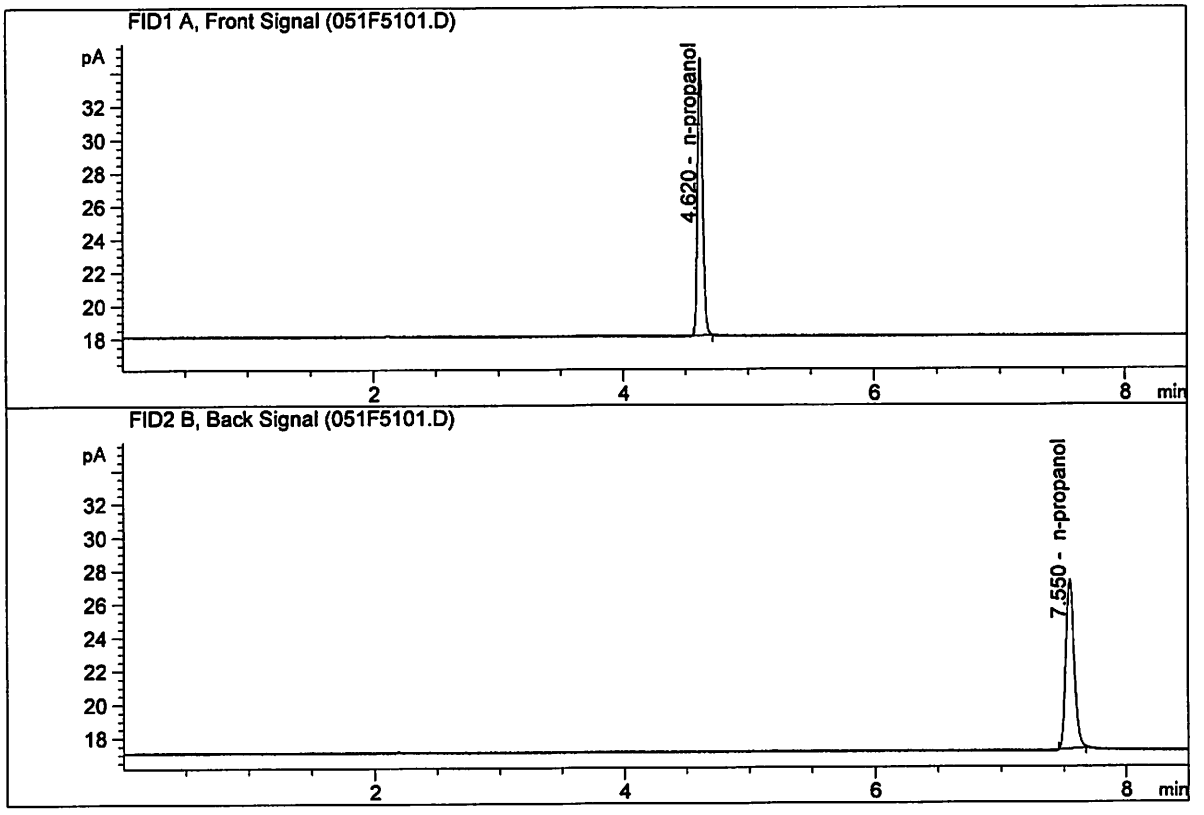
Sample Name : DFE 111914OM
Laboratory : Meridian
Injection Date : Mar 28, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	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:	48.06520	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.03769	1.0000	g/100cc

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:	47.37631	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.20872	1.0000	g/100cc

JC

Sample Summary

Sequence table: C:\Chem32\1\Data\03-28-18_SAMPLES\03-28-18_SAMPLES 2018-03-28 14-56-21\03-28-18_SAMPLES.S
Data directory path: C:\Chem32\1\Data\03-28-18_SAMPLES\03-28-18_SAMPLES 2018-03-28 14-56-21\
Logbook: C:\Chem32\1\Data\03-28-18_SAMPLES\03-28-18_SAMPLES 2018-03-28 14-56-21\03-28-18_SAMPLES.LOG
Sequence start: 3/28/2018 3:11:09 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\03-28-18_SAMPLES\03-28-18_SAMPLES 2018-03-28 14-56-21\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	M2018-1419-1-A	-	1.0000	007F0701.D	6
8	8	1	M2018-1419-1-B	-	1.0000	008F0801.D	6
9	9	1	M2018-1420-1-A	-	1.0000	009F0901.D	6
10	10	1	M2018-1420-1-B	-	1.0000	010F1001.D	6
11	11	1	M2018-1421-1-A	-	1.0000	011F1101.D	6
12	12	1	M2018-1421-1-B	-	1.0000	012F1201.D	4
13	13	1	M2018-1422-1-A	-	1.0000	013F1301.D	6
14	14	1	M2018-1422-1-B	-	1.0000	014F1401.D	6
15	15	1	M2018-1444-1-A	-	1.0000	015F1501.D	6
16	16	1	M2018-1444-1-B	-	1.0000	016F1601.D	6
17	17	1	M2018-1445-1-A	-	1.0000	017F1701.D	6
18	18	1	M2018-1445-1-B	-	1.0000	018F1801.D	6
19	19	1	M2018-1446-1-A	-	1.0000	019F1901.D	6
20	20	1	M2018-1446-1-B	-	1.0000	020F2001.D	6
21	21	1	M2018-1470-1-A	-	1.0000	021F2101.D	6
22	22	1	M2018-1470-1-B	-	1.0000	022F2201.D	6
23	23	1	M2018-1472-1-A	-	1.0000	023F2301.D	6
24	24	1	M2018-1472-1-B	-	1.0000	024F2401.D	6
25	25	1	~~M2018-1502-1-A~~ QC2-1-A	-	1.0000	025F2501.D	4
26	26	1	~~M2018-1502-1-B~~ QC2-1-B	-	1.0000	026F2601.D	4
27	27	1	~~QC1-2-A~~ M2018-1502-1-A	-	1.0000	027F2701.D	6
28	28	1	~~QC1-2-B~~ M2018-1502-1-B	-	1.0000	028F2801.D	6
29	29	1	M2018-1503-1-A	-	1.0000	029F2901.D	6
30	30	1	M2018-1503-1-B	-	1.0000	030F3001.D	6
31	31	1	M2018-1504-1-A	-	1.0000	031F3101.D	6
32	32	1	M2018-1504-1-B	-	1.0000	032F3201.D	6
33	33	1	M2018-1505-1-A	-	1.0000	033F3301.D	4
34	34	1	M2018-1505-1-B	-	1.0000	034F3401.D	4
35	35	1	M2018-1507-1-A	-	1.0000	035F3501.D	2
36	36	1	M2018-1507-1-B	-	1.0000	036F3601.D	2
37	37	1	M2018-1509-1-A	-	1.0000	037F3701.D	6
38	38	1	M2018-1509-1-B	-	1.0000	038F3801.D	6
39	39	1	M2018-1510-1-A	-	1.0000	039F3901.D	6
40	40	1	M2018-1510-1-B	-	1.0000	040F4001.D	6
41	41	1	P2018-0772-1-A	-	1.0000	041F4101.D	2
42	42	1	P2018-0772-1-B	-	1.0000	042F4201.D	2
43	43	1	P2018-0774-1-A	-	1.0000	043F4301.D	6

Sample mislabeled JG

JG

Sequence File C:\Chem32\...8_SAMPLES\03-28-18_SAMPLES 2018-03-28 14-56-21\03-28-18_SAMPLES.S

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	# Cmp
44	44	1	P2018-0774-1-B	-	1.0000	044F4401.D		6
45	45	1	QC2-2-A	-	1.0000	045F4501.D		4
46	46	1	QC2-2-B	-	1.0000	046F4601.D		4
47	47	1	INTERNAL STD BLK	-	1.0000	047F4701.D		2
48	48	1	TFE 111914	-	1.0000	048F4801.D		2
49	49	1	INTERNAL STD BLK	-	1.0000	049F4901.D		2
50	50	1	DFE 111914OM	-	1.0000	050F5001.D		2
51	51	1	INTERNAL STD BLK	-	1.0000	051F5101.D		2

Method file name: C:\Chem32\1\Data\03-28-18_SAMPLES\03-28-18_SAMPLES 2018-03-28 14-56-21 \SHUTDOWN.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	# Cmp
52	52	1	EMPTY	-	1.0000	052F5201.D		0

Samples were re-run due to failed control on 3/27/18
-JC

JG