

Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB 5034 Liquid Processor/Dilutor Serial Number: MD96BC1382/MD94AM10010

Volatiles Quality Assurance Controls

Run Date(s):10/03/17

Calibration date: 9/21/17

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results	
Level 1	Jul-18	1407031	0.0780	0.0702-0.0858	0.0742 g/100cc	
					0.0771 g/100cc	
					0.1984 g/100cc	
Level 2	Jul-18	1407032	0.2020	0.1818-.2222	0.1984 g/100cc g/100cc	
Multi-Component mixture:		Exp date: Oct 2019	Lot #	FN09231404	OK	
Curve Fit:			Column 1	1.00000	Column2	0.99991

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	0.0493	0.0467	0.0026	0.048
0.080			0.080	0.072 - 0.088			0	#DIV/0!
0.100	Jun-19	FN06181501	0.100	0.090 - 0.110	0.0988	0.0957	0.0031	0.0972
0.200	Dec-19	FN12011401	0.200	0.180 - 0.220	0.1994	0.1953	0.0041	0.1973
0.300	Feb-21	FN02121601	0.300	0.270 - 0.330	0.2997	0.2980	0.0017	0.2988
0.400			0.400	0.360 - 0.440			0	#DIV/0!
0.500	Aug-19	FN07031402	0.500	0.450 - 0.550	0.5008	0.5043	0.0035	0.5025

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

Issued: 4/22/2015


















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

Volatiles QA/QC data spreadsheet Rev 5

Issuing Authority: Quality Manager

JK

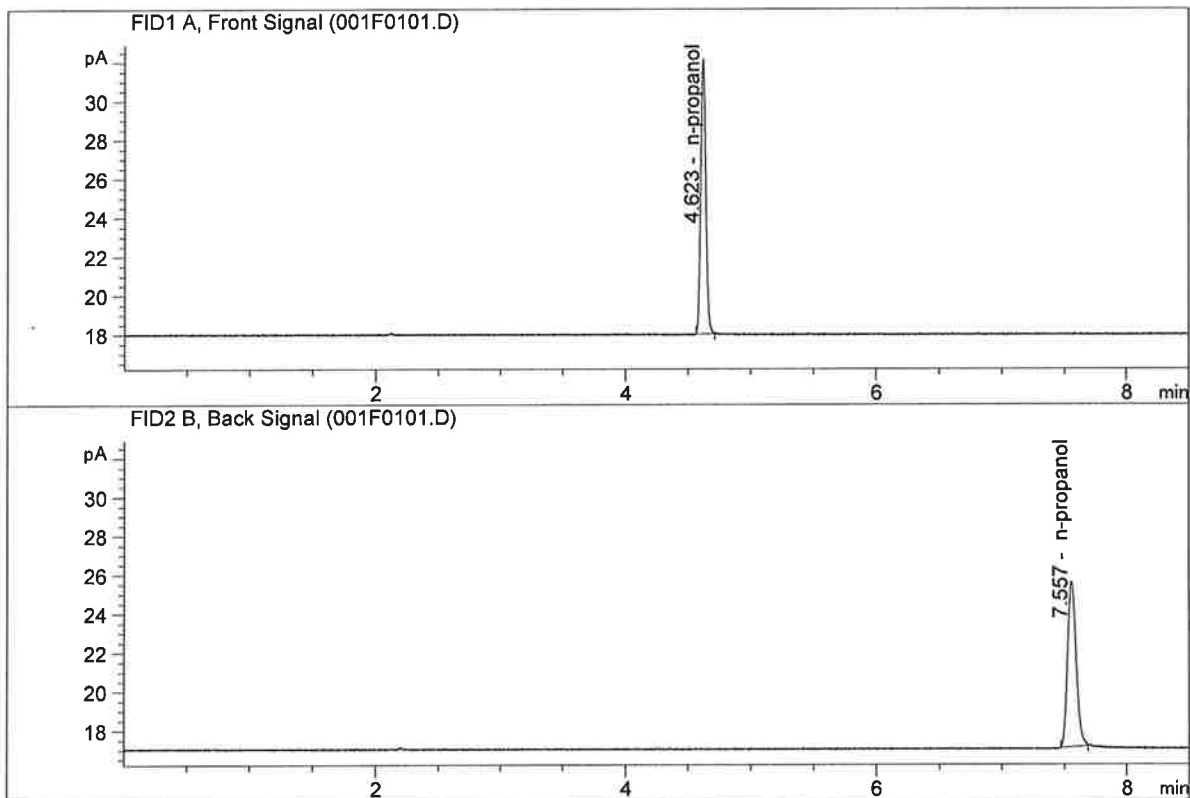
Worklist: 1931

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
M2017-4247	1	96534	Alcohol Analysis	
M2017-4337	1	95225	Alcohol Analysis	
M2017-4338	1	95226	Alcohol Analysis	
M2017-4353	1	95251	Alcohol Analysis	
M2017-4354	1	95252	Alcohol Analysis	
M2017-4368	2	95291	Alcohol Analysis	
M2017-4372	1	95368	Alcohol Analysis	
M2017-4389	1	95468	Alcohol Analysis	
M2017-4390	1	95471	Alcohol Analysis	
M2017-4391	1	95472	Alcohol Analysis	
M2017-4393	1	95474	Alcohol Analysis	
M2017-4414	2	95509	Alcohol Analysis	
M2017-4429	1	95607	Alcohol Analysis	
M2017-4441	1	95720	Alcohol Analysis	
M2017-4443	1	95735	Alcohol Analysis	
M2017-4544	1	96264	Alcohol Analysis	
M2017-4556	1	96356	Alcohol Analysis	

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
 Laboratory : Meridian
 Injection Date : Oct 3, 2017
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

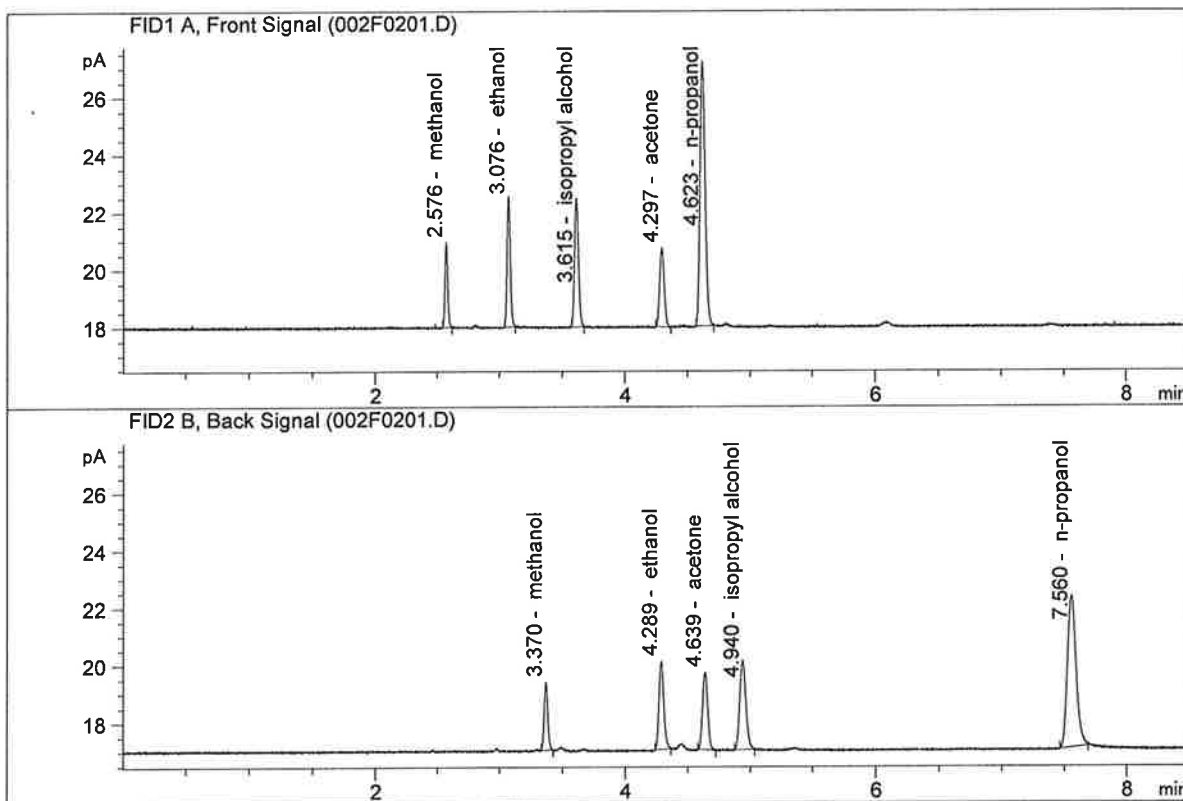


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	40.15294	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.86591	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN09231404
 Laboratory : Meridian
 Injection Date : Oct 3, 2017
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.08751	0.1441	g/100cc
2.	Ethanol	Column 2:	8.15535	0.1417	g/100cc
3.	n-Propanol	Column 1:	25.86646	1.0000	g/100cc
4.	n-Propanol	Column 2:	25.61636	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1

Analysis Date(s): 03 Oct 2017

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0755	0.0730	0.0025	0.0742	0.0742	
(g/100cc)	0.0756	0.0727	0.0029	0.0741		

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
0.074	0.070	0.078	0.004

	Reported Result	
	0.074	

Calibration and control data are stored centrally.

Issued: 12/30/2016

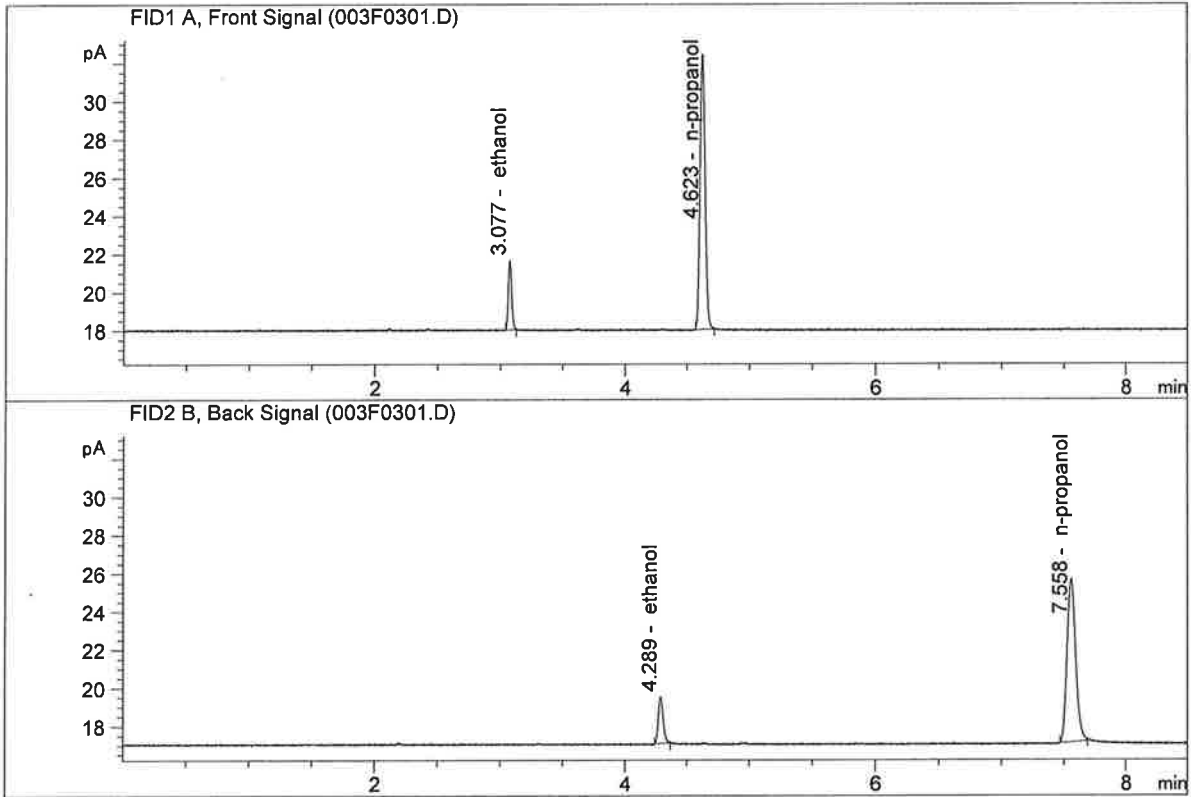
Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

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ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
 Laboratory : Meridian
 Injection Date : Oct 3, 2017
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

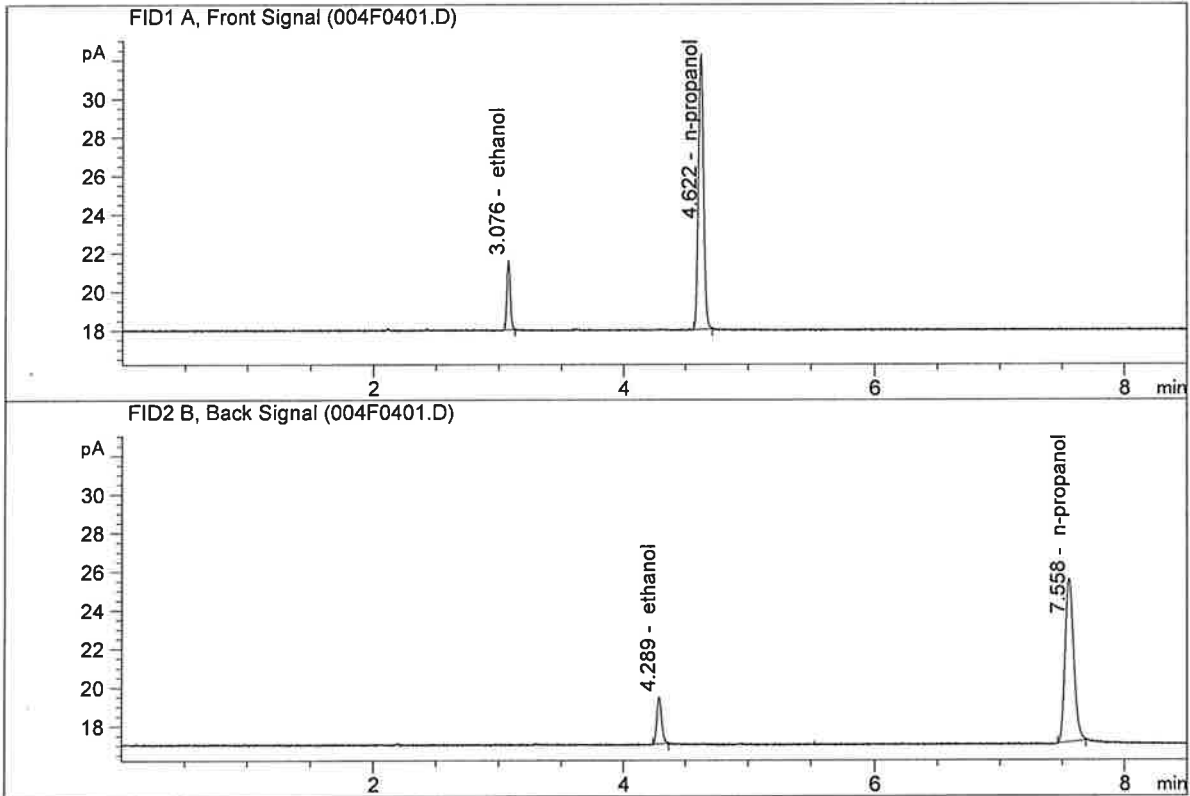


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.72275	0.0755	g/100cc
2.	Ethanol	Column 2:	6.73904	0.0730	g/100cc
3.	n-Propanol	Column 1:	41.03484	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.09128	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
 Laboratory : Meridian
 Injection Date : Oct 3, 2017
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.64559	0.0756	g/100cc
2.	Ethanol	Column 2:	6.63860	0.0727	g/100cc
3.	n-Propanol	Column 1:	40.50551	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.64069	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN10281510

Analysis Date(s): 03 Oct 2017

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0781	0.0747	0.0034	0.0764	0.0768	
(g/100cc)	0.0791	0.0756	0.0035	0.0773		

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
0.076	0.072	0.080	0.004

	Reported Result	
	0.076	

Calibration and control data are stored centrally.

Issued: 12/30/2016

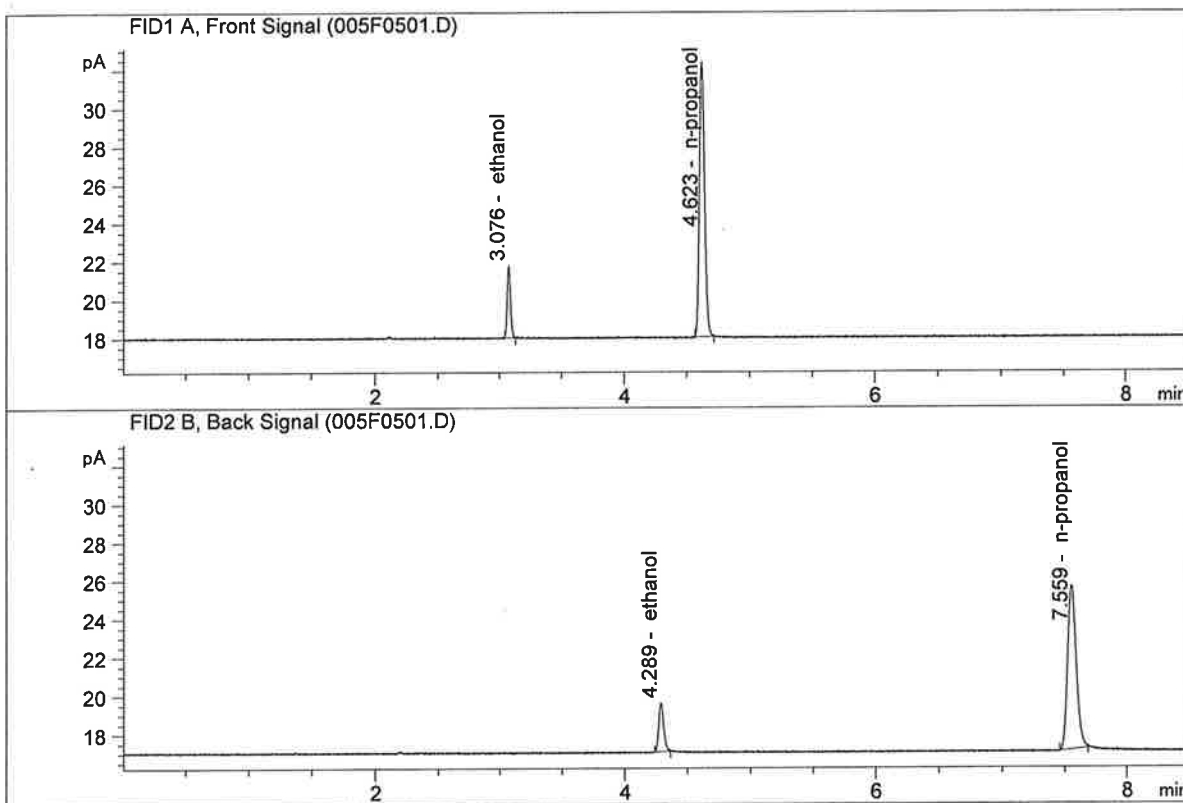
Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

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ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-A
 Laboratory : Meridian
 Injection Date : Oct 3, 2017
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

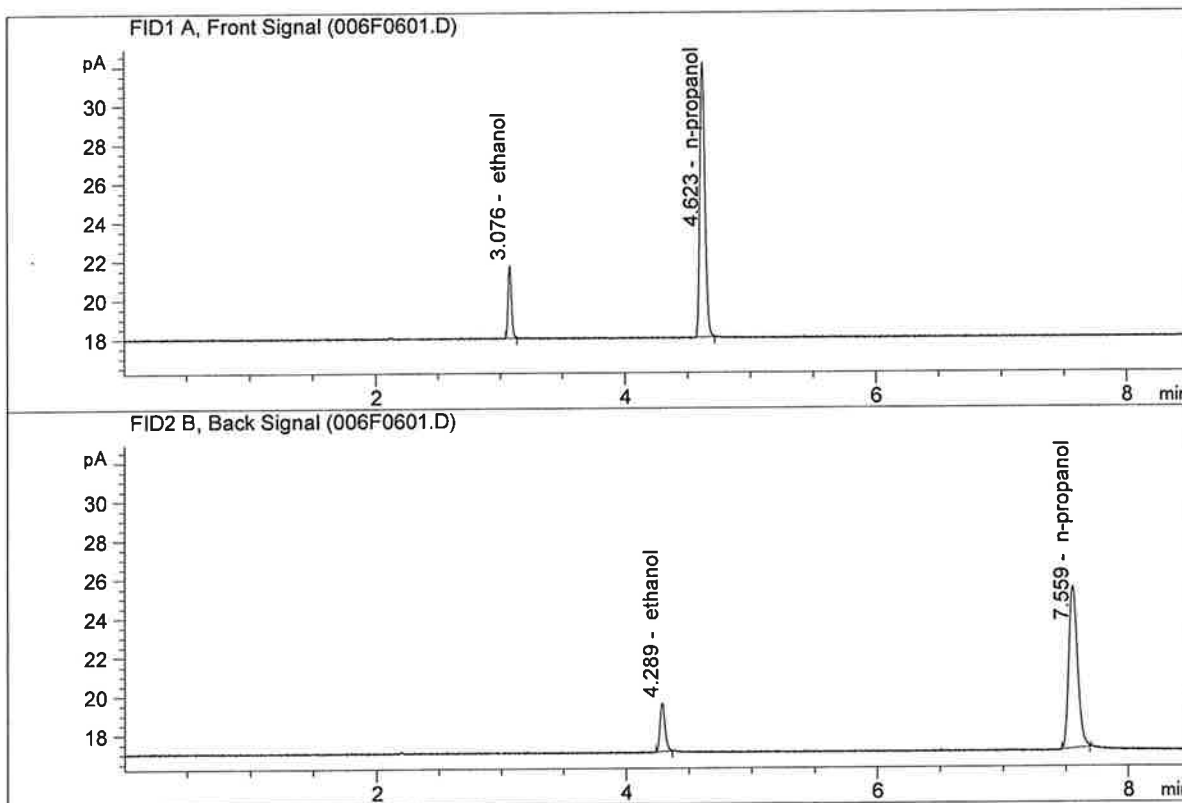


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.91630	0.0781	g/100cc
2.	Ethanol	Column 2:	6.89211	0.0747	g/100cc
3.	n-Propanol	Column 1:	40.79773	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.03044	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-B
 Laboratory : Meridian
 Injection Date : Oct 3, 2017
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.89598	0.0791	g/100cc
2.	Ethanol	Column 2:	6.84645	0.0756	g/100cc
3.	n-Propanol	Column 1:	40.21115	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.31110	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1

Analysis Date(s): 03 Oct 2017

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1998	0.1963	0.0035	0.1980	0.1984	
(g/100cc)	0.2001	0.1974	0.0027	0.1987		

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.

Issued: 12/30/2016

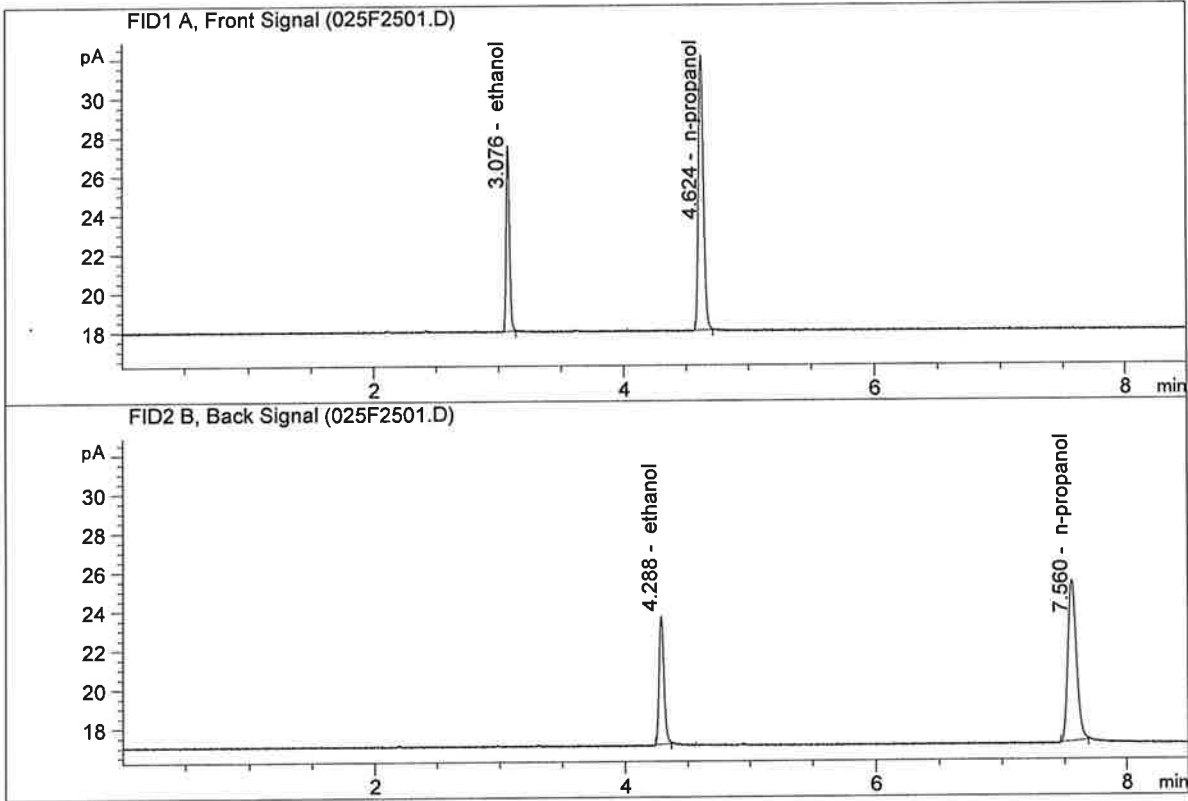
Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

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ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A
 Laboratory : Meridian
 Injection Date : Oct 3, 2017
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

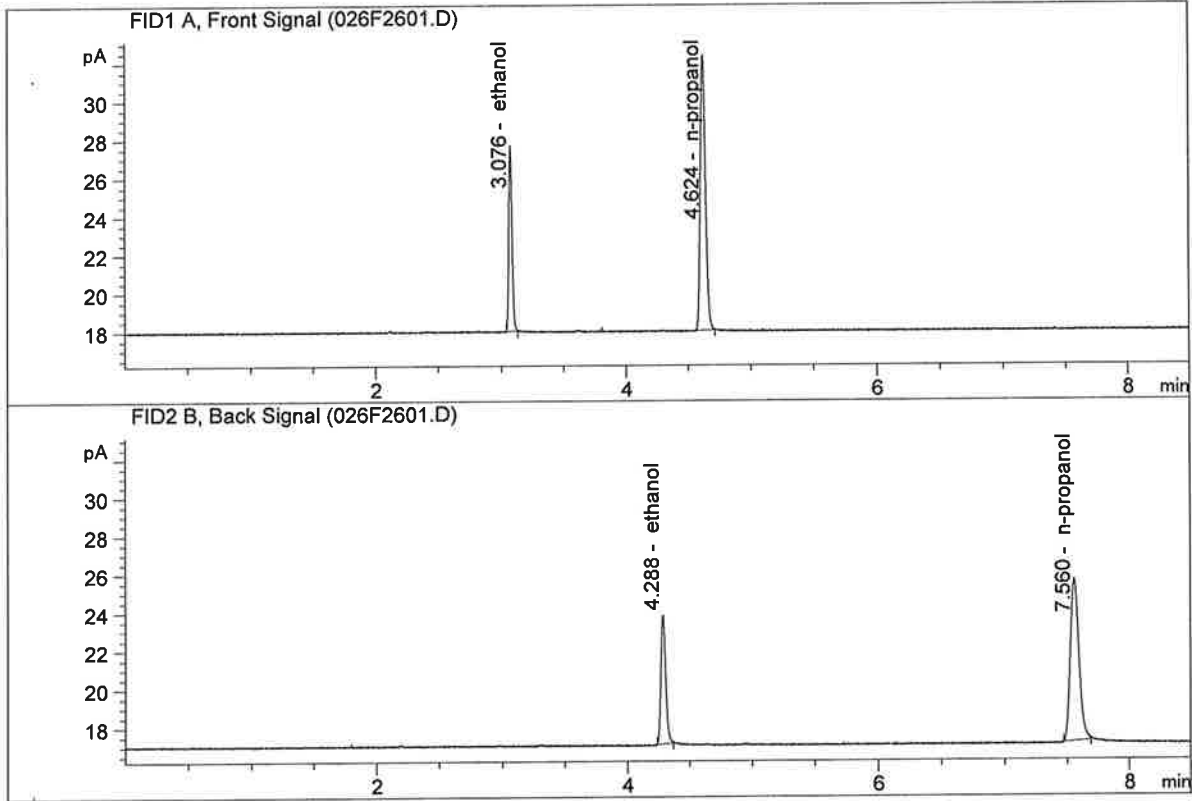


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.35529	0.1998	g/100cc
2.	Ethanol	Column 2:	17.62156	0.1963	g/100cc
3.	n-Propanol	Column 1:	40.04164	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.93155	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
 Laboratory : Meridian
 Injection Date : Oct 3, 2017
 Method : ALCOHOL.M
 Acq. Instrument : CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.72677	0.2001	g/100cc
2.	Ethanol	Column 2:	18.04526	0.1974	g/100cc
3.	n-Propanol	Column 1:	40.84417	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.67067	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2

Analysis Date(s): 03 Oct 2017

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0782	0.0760	0.0022	0.0771	0.0771	
(g/100cc)	0.0787	0.0758	0.0029	0.0772		

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
0.077	0.073	0.081	0.004

	Reported Result 0.077	
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Calibration and control data are stored centrally.

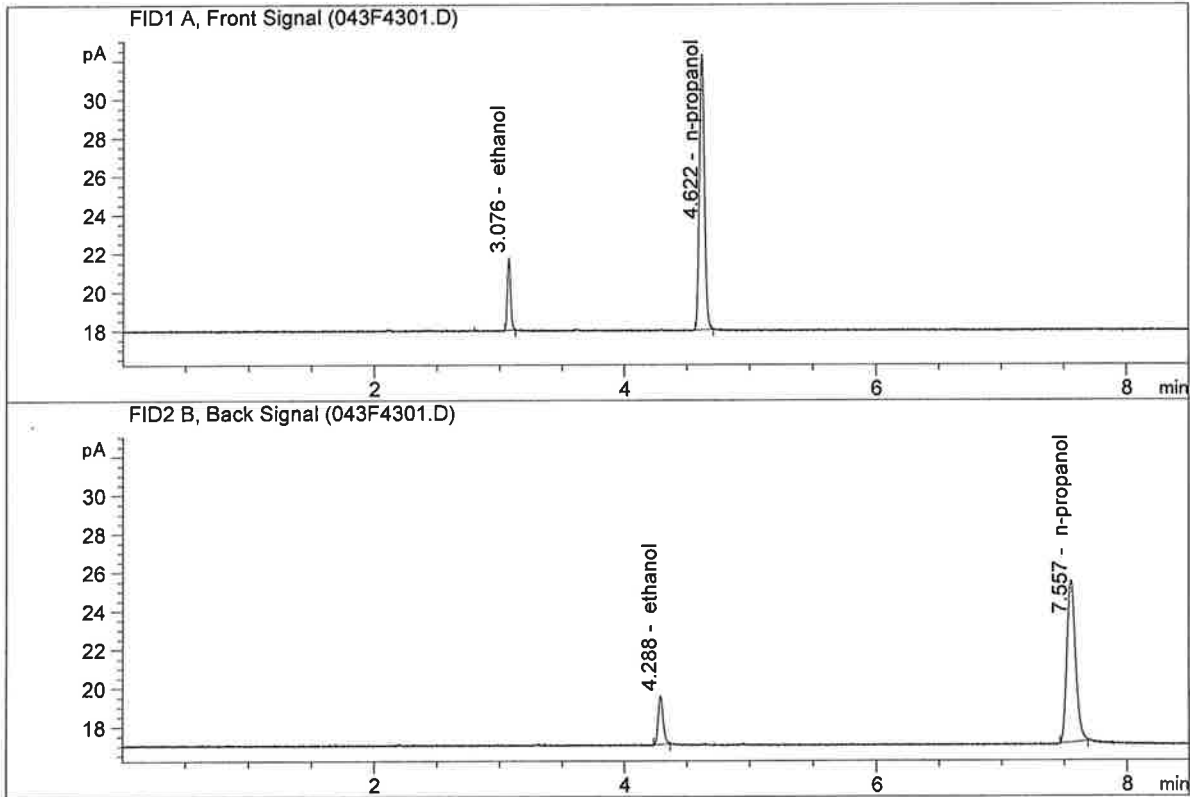
Issued: 12/30/2016

Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-A
 Laboratory : Meridian
 Injection Date : Oct 3, 2017
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

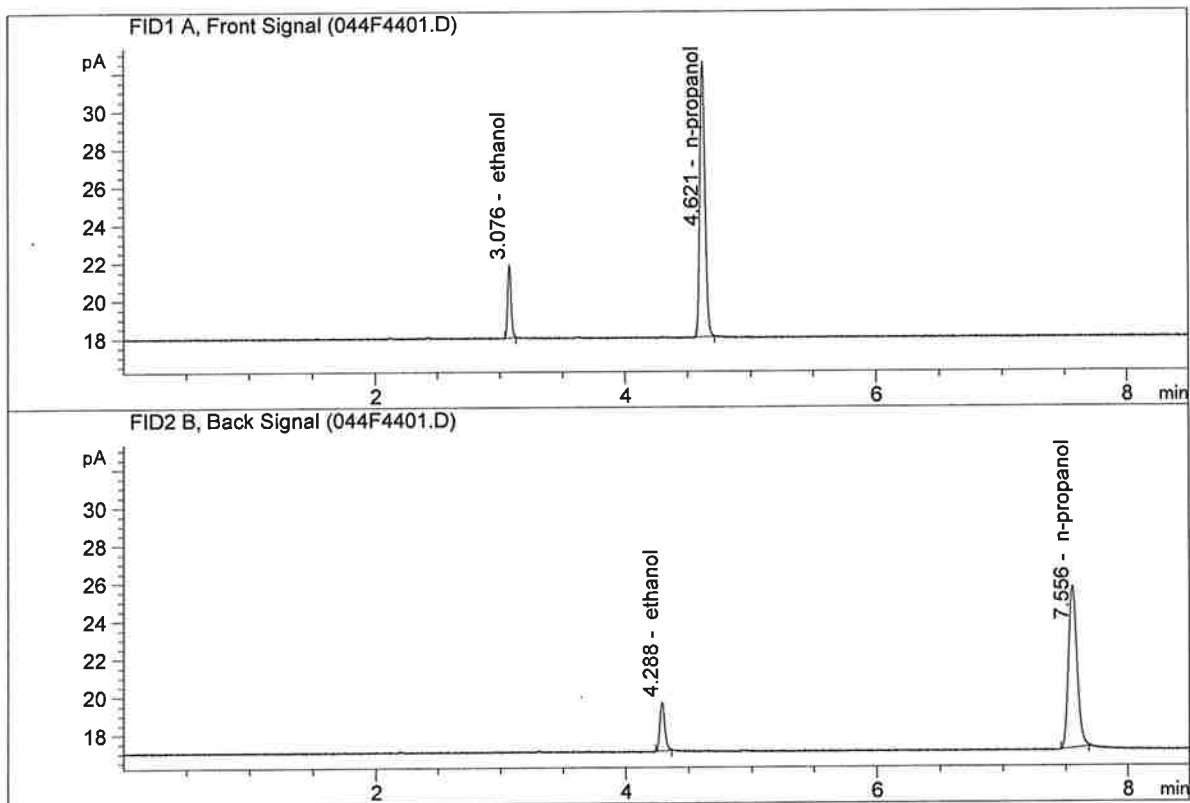


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.87375	0.0782	g/100cc
2.	Ethanol	Column 2:	6.89230	0.0760	g/100cc
3.	n-Propanol	Column 1:	40.50380	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.33640	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
 Laboratory : Meridian
 Injection Date : Oct 3, 2017
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

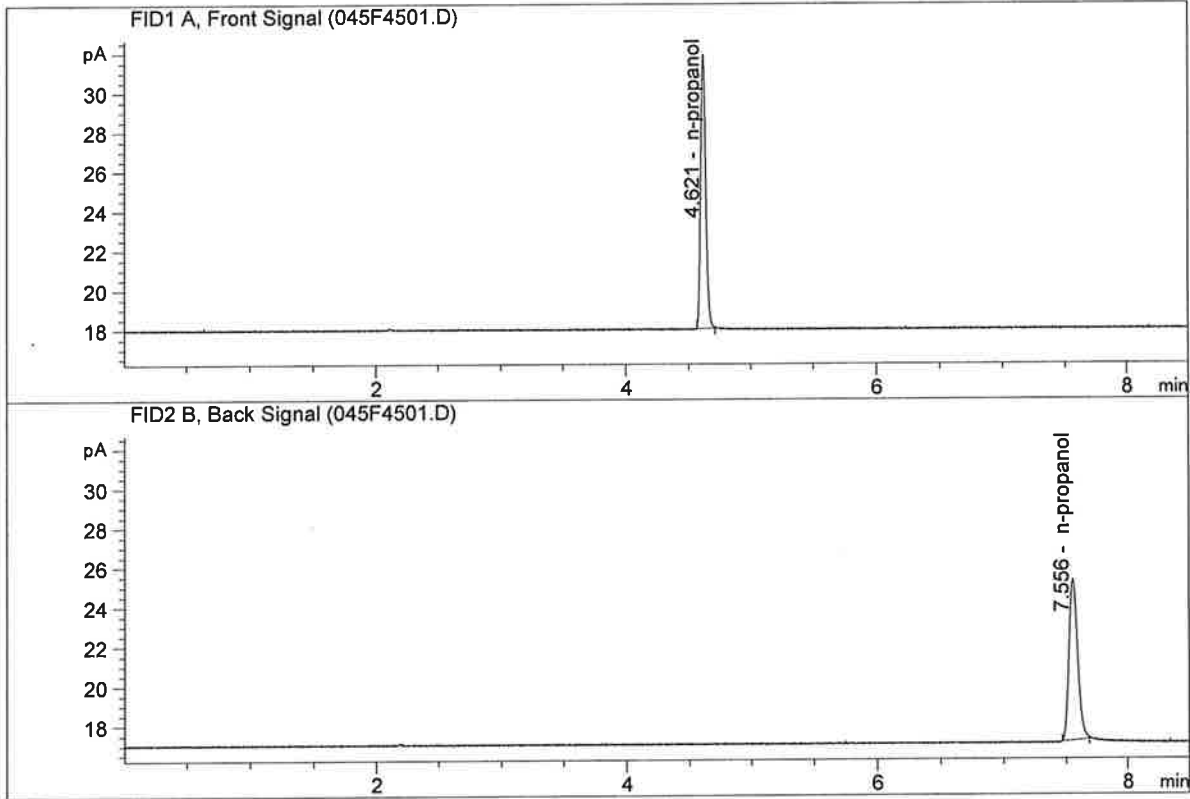


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.06459	0.0787	g/100cc
2.	Ethanol	Column 2:	7.03254	0.0758	g/100cc
3.	n-Propanol	Column 1:	41.38494	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.25304	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
 Laboratory : Meridian
 Injection Date : Oct 3, 2017
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

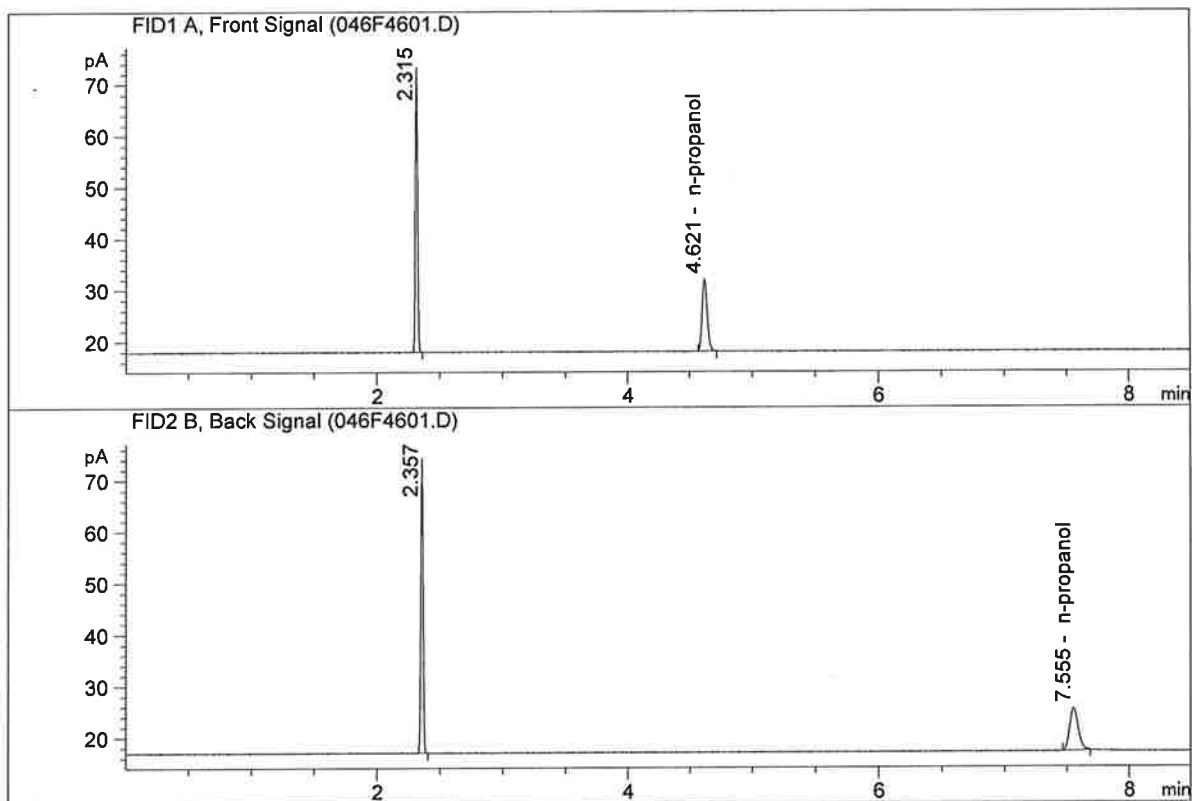


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	39.44698	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.08136	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : DFE 111914OM
 Laboratory : Meridian
 Injection Date : Oct 3, 2017
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

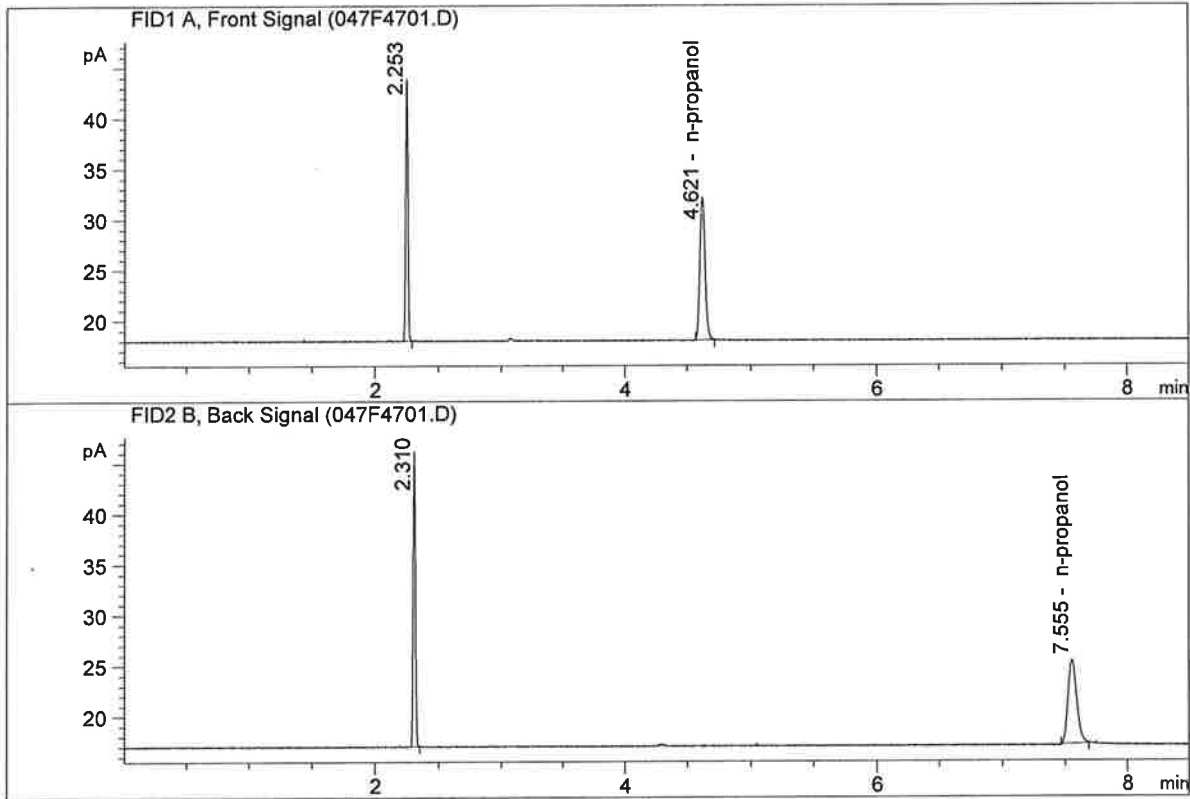


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	39.73278	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.46695	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : TFE 111914
 Laboratory : Meridian
 Injection Date : Oct 3, 2017
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

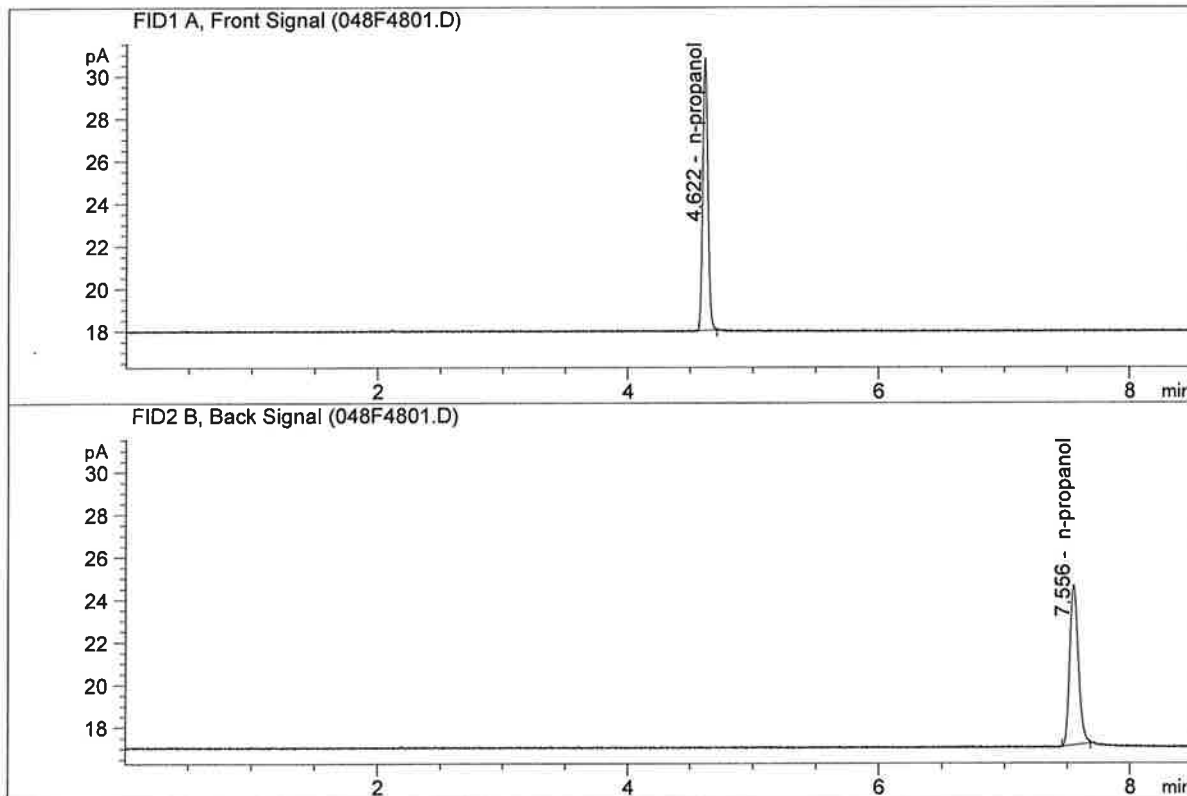


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	39.99299	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.78460	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
 Laboratory : Meridian
 Injection Date : Oct 3, 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:	36.33939	1.0000	g/100cc
4.	n-Propanol	Column 2:	36.02799	1.0000	g/100cc

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Sample Summary

Sequence table: C:\Chem32\1\Data\10-03-17_SAMPLES\10-03-17_SAMPLES 2017-10-03 14-49-32\10-03-17_SAMPLES.S
 Data directory path: C:\Chem32\1\Data\10-03-17_SAMPLES\10-03-17_SAMPLES 2017-10-03 14-49-32\
 Logbook: C:\Chem32\1\Data\10-03-17_SAMPLES\10-03-17_SAMPLES 2017-10-03 14-49-32\10-03-17_SAMPLES.LOG
 Sequence start: 10/3/2017 3:04:19 PM
 Sequence Operator: SYSTEM
 Operator: SYSTEM
 Method file name: C:\Chem32\1\Data\10-03-17_SAMPLES\10-03-17_SAMPLES 2017-10-03 14-49-32\
 \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	M2017-4247-1-A	-	1.0000	007F0701.D		6
8	8	1	M2017-4247-1-B	-	1.0000	008F0801.D		6
9	9	1	M2017-4337-1-A	-	1.0000	009F0901.D		4
10	10	1	M2017-4337-1-B	-	1.0000	010F1001.D		4
11	11	1	M2017-4338-1-A	-	1.0000	011F1101.D		6
12	12	1	M2017-4338-1-B	-	1.0000	012F1201.D		6
13	13	1	M2017-4353-1-A	-	1.0000	013F1301.D		6
14	14	1	M2017-4353-1-B	-	1.0000	014F1401.D		6
15	15	1	M2017-4354-1-A	-	1.0000	015F1501.D		3
16	16	1	M2017-4354-1-B	-	1.0000	016F1601.D		4
17	17	1	M2017-4368-2-A	-	1.0000	017F1701.D		2
18	18	1	M2017-4368-2-B	-	1.0000	018F1801.D		2
19	19	1	M2017-4372-1-A	-	1.0000	019F1901.D		6
20	20	1	M2017-4372-1-B	-	1.0000	020F2001.D		6
21	21	1	M2017-4389-1-A	-	1.0000	021F2101.D		4
22	22	1	M2017-4389-1-B	-	1.0000	022F2201.D		4
23	23	1	M2017-4390-1-A	-	1.0000	023F2301.D		6
24	24	1	M2017-4390-1-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	M2017-4391-1-A	-	1.0000	027F2701.D		6
28	28	1	M2017-4391-1-B	-	1.0000	028F2801.D		6
29	29	1	M2017-4393-1-A	-	1.0000	029F2901.D		6
30	30	1	M2017-4393-1-B	-	1.0000	030F3001.D		6
31	31	1	M2017-4414-2-A	-	1.0000	031F3101.D		6
32	32	1	M2017-4414-2-B	-	1.0000	032F3201.D		6
33	33	1	M2017-4429-1-A	-	1.0000	033F3301.D		2
34	34	1	M2017-4429-1-B	-	1.0000	034F3401.D		2
35	35	1	M2017-4441-1-A	-	1.0000	035F3501.D		6
36	36	1	M2017-4441-1-B	-	1.0000	036F3601.D		6
37	37	1	M2017-4443-1-A	-	1.0000	037F3701.D		6
38	38	1	M2017-4443-1-B	-	1.0000	038F3801.D		6
39	39	1	M2017-4544-1-A	-	1.0000	039F3901.D		4
40	40	1	M2017-4544-1-B	-	1.0000	040F4001.D		4
41	41	1	M2017-4556-1-A	-	1.0000	041F4101.D		2
42	42	1	M2017-4556-1-B	-	1.0000	042F4201.D		2
43	43	1	QC1-2-A	-	1.0000	043F4301.D		4

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #
44	44	1	QC1-2-B	-	1.0000	044F4401.D	4
45	45	1	INTERNAL STD BLK	-	1.0000	045F4501.D	2
46	46	1	DFE 111914OM	-	1.0000	046F4601.D	2
47	47	1	TFE 111914	-	1.0000	047F4701.D	2
48	48	1	INTERNAL STD BLK	-	1.0000	048F4801.D	2

Method file name: C:\Chem32\1\Data\10-03-17_SAMPLES\10-03-17_SAMPLES 2017-10-03 14-49-32
 \SHUTDOWN.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #
49	49	1	EMPTY	-	1.0000	049F4901.D	0

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