

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 Date(s): 7/19/18-7/20/18

Calibration Date: 07/10/2018

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-18	1407031	0.0780	0.0702-0.0858	0.0809 g/100cc
					0.0817 g/100cc
					0.2006 g/100cc
Level 2	Jul-18	1407032	0.2020	0.1818-0.2222	g/100cc
					g/100cc
Multi-Component mixture:			Exp date: Sept 2020	Lot #	FN06041503
Curve Fit:			Column 1	0.99999	Column2
					OK
					0.99997

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	0.0503	0.0516	0.0013	0.0509
0.080			0.080	0.072 - 0.088			0	#DIV/0!
0.100	Aug-21	FN08101601	0.100	0.090 - 0.110	0.0998	0.0993	0.0005	0.0995
0.200	Apr-21	FN03301601	0.200	0.180 - 0.220	0.1991	0.1982	0.0009	0.1986
0.300	Feb-21	FN02121601	0.300	0.270 - 0.330	0.3011	0.3004	0.0007	0.3007
0.400			0.400	0.360 - 0.440			0	#DIV/0!
0.500	Sep-21	FN08031602	0.500	0.450 - 0.550	0.4997	0.5004	0.0007	0.5

Aqueous Controls					
Control level	Expiration	Cerilliant Lot #	Target Value	Acceptable Range	Overall Results
0.080	Nov-20	FN10281510	0.08000	0.076 - 0.084	0.077 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

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Worklist: 2584

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
M2018-3471	1	120997	Alcohol Analysis	
M2018-3472	1	120998	Alcohol Analysis	
M2018-3473	1	121002	Alcohol Analysis	
M2018-3474	1	121013	Alcohol Analysis	
M2018-3476	1	121044	Alcohol Analysis	
M2018-3482	1	121064	Alcohol Analysis	
M2018-3491	1	121093	Alcohol Analysis	
M2018-3495	1	121131	Alcohol Analysis	
M2018-3503	1	121141	Alcohol Analysis	
M2018-3504	1	121145	Alcohol Analysis	
M2018-3538	1	121311	Alcohol Analysis	
M2018-3543	1	121318	Alcohol Analysis	
M2018-3547	1	121323	Alcohol Analysis	
M2018-3556	1	121360	Alcohol Analysis	
M2018-3556	2	121364	Alcohol Analysis	
M2018-3556	3	121368	Alcohol Analysis	
M2018-3557	1	121375	Alcohol Analysis	
M2018-3558	1	121376	Alcohol Analysis	
M2018-3558	2	121514	Alcohol Analysis	

JG Case not ran.

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1

Analysis Date(s): 19 Jul 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0809	0.0820	0.0011	0.0814	0.0809
(g/100cc)	0.0804	0.0805	0.0001	0.0804	

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: ML600HC11378

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

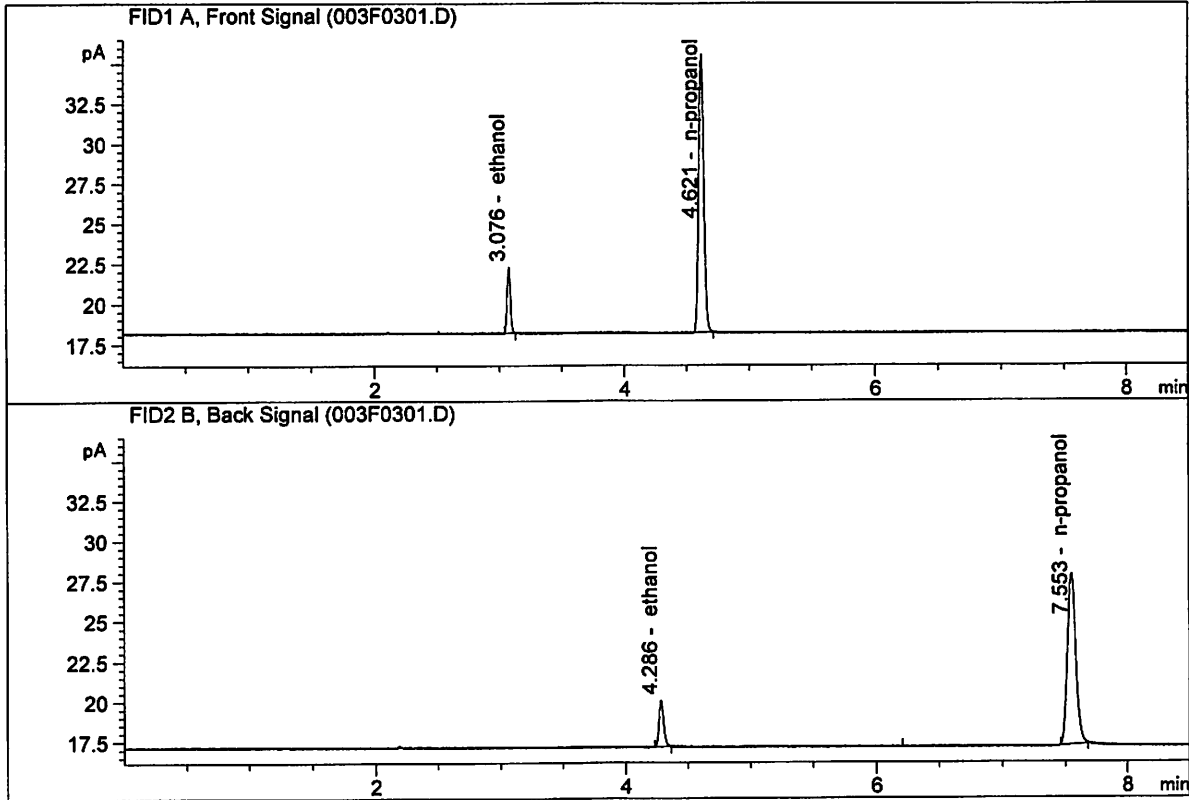
	Reported Result	
	0.080	

Calibration and control data are stored centrally.

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ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
 Laboratory : Meridian
 Injection Date : Jul 19, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

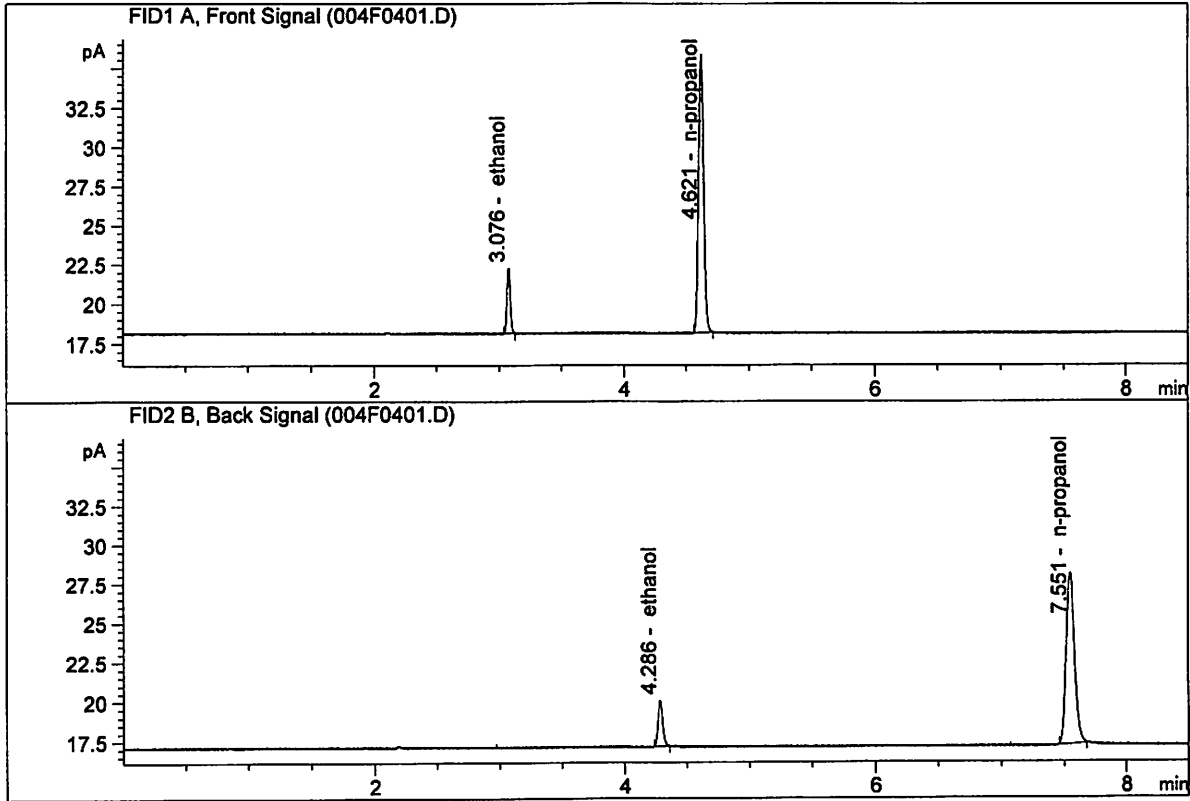


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.49054	0.0809	g/100cc
2.	Ethanol	Column 2:	7.80504	0.0820	g/100cc
3.	n-Propanol	Column 1:	49.37831	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.11650	1.0000	g/100cc

26

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
 Laboratory : Meridian
 Injection Date : Jul 19, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.60735	0.0804	g/100cc
2.	Ethanol	Column 2:	7.81176	0.0805	g/100cc
3.	n-Propanol	Column 1:	50.44349	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.15741	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN10281510

Analysis Date(s): 19 Jul 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0774	0.0780	0.0006	0.0777	0.0777
(g/100cc)	0.0775	0.0781	0.0006	0.0778	

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: ML600HC11378

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

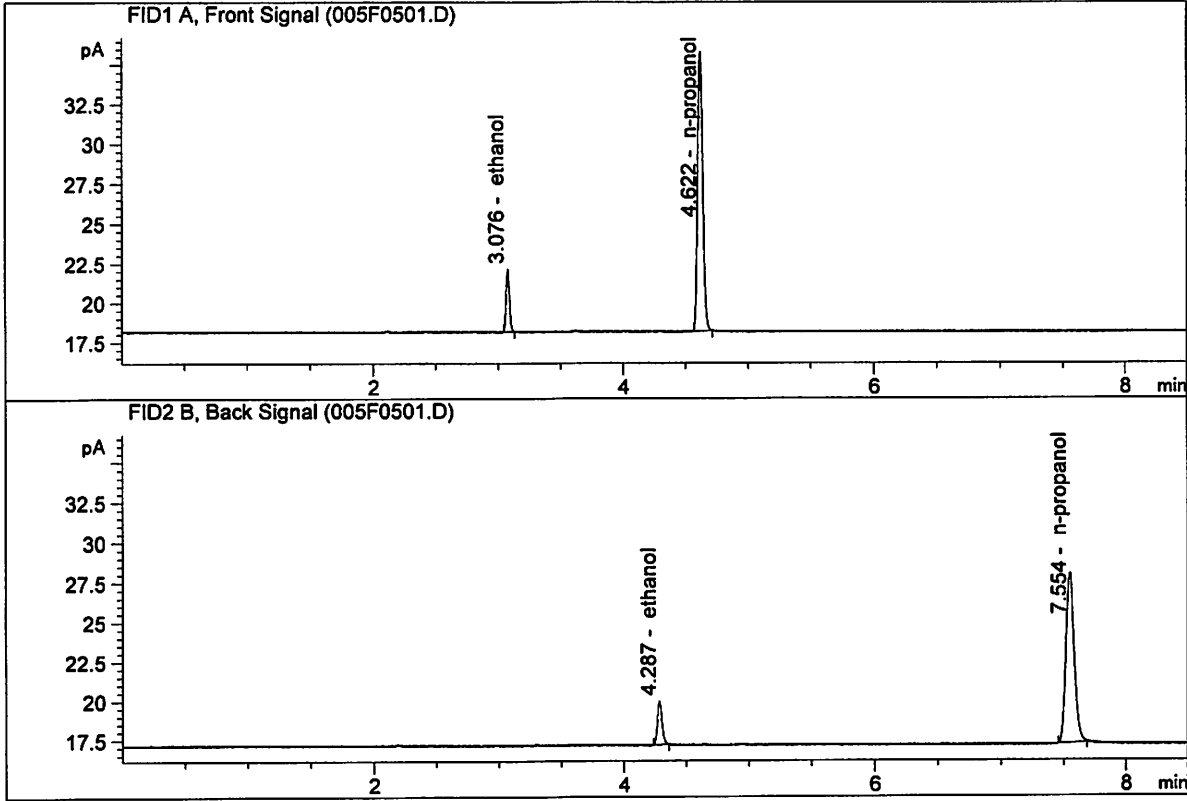
Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

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ISP Forensic Services Blood Alcohol Report

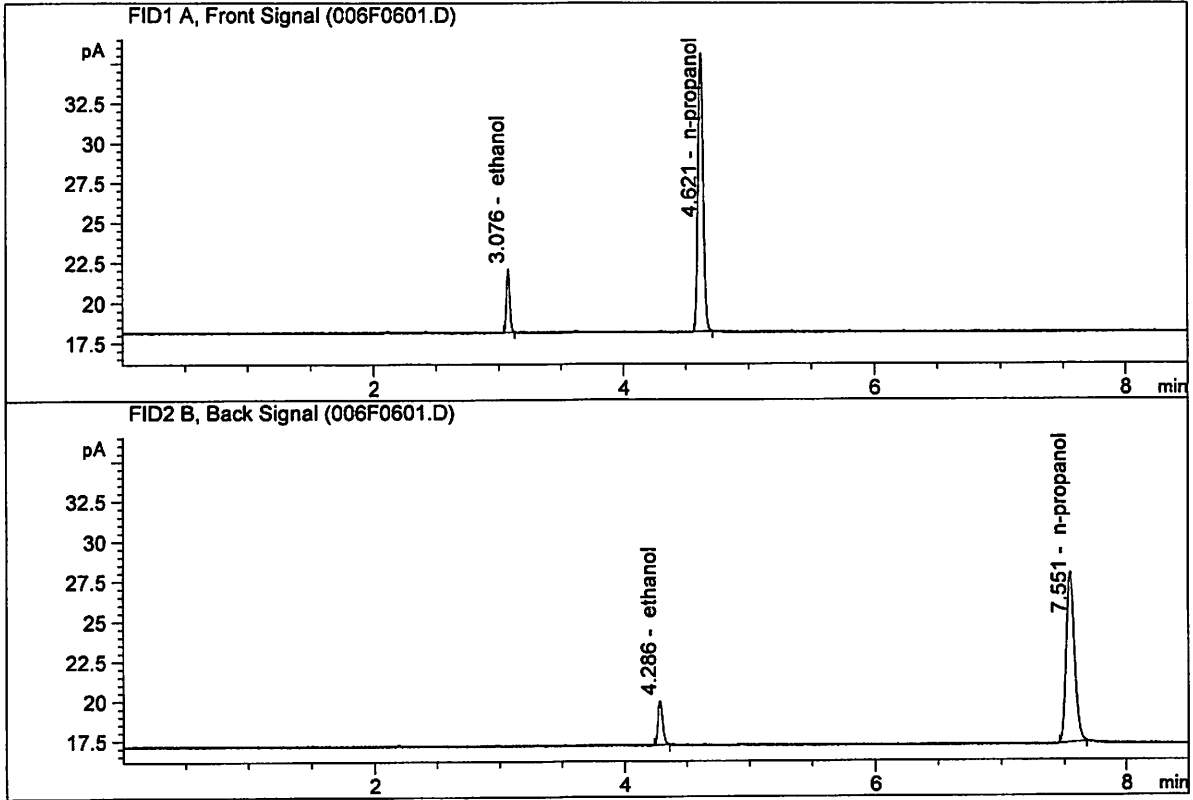
Sample Name : 0.08 FN10281510-A
 Laboratory : Meridian
 Injection Date : Jul 19, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.29029	0.0774	g/100cc
2.	Ethanol	Column 2:	7.54336	0.0780	g/100cc
3.	n-Propanol	Column 1:	50.24315	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.10296	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-B
 Laboratory : Meridian
 Injection Date : Jul 19, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.22253	0.0775	g/100cc
2.	Ethanol	Column 2:	7.44691	0.0781	g/100cc
3.	n-Propanol	Column 1:	49.70570	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.35514	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2

Analysis Date(s): 19 Jul 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0818	0.0825	0.0007	0.0821	0.0817	
(g/100cc)	0.0807	0.0818	0.0011	0.0812		

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: ML600HC11378

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.

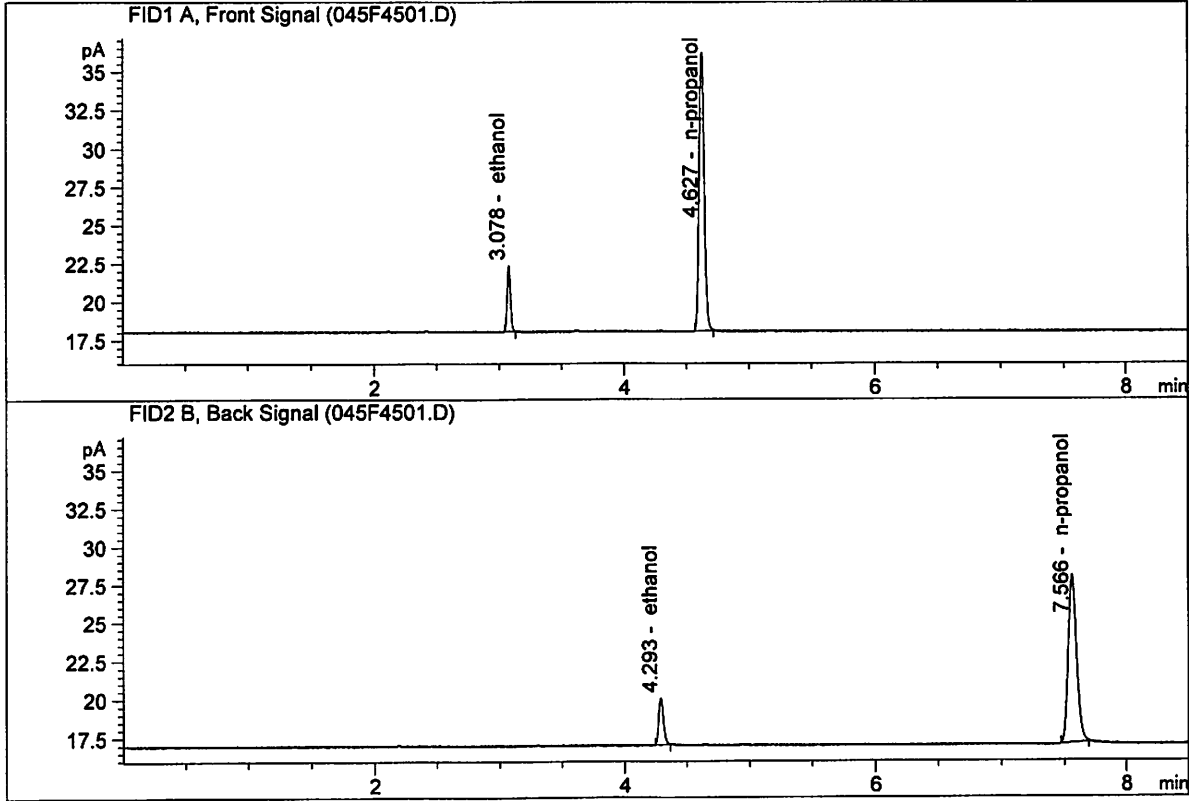
Issued: 12/30/2016

Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

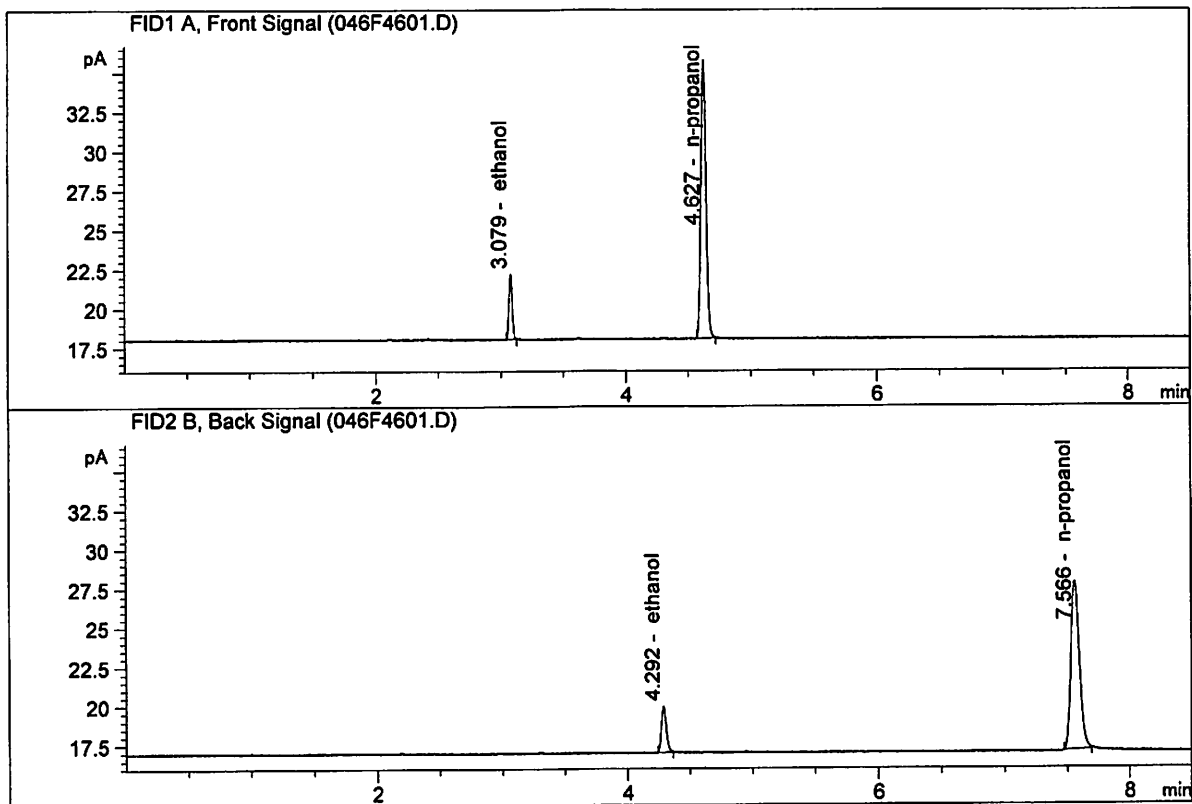
Sample Name : QC1-2-A
 Laboratory : Meridian
 Injection Date : Jul 19, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.91612	0.0818	g/100cc
2.	Ethanol	Column 2:	8.13509	0.0825	g/100cc
3.	n-Propanol	Column 1:	51.57858	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.94718	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
 Laboratory : Meridian
 Injection Date : Jul 19, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.63678	0.0807	g/100cc
2.	Ethanol	Column 2:	7.88231	0.0818	g/100cc
3.	n-Propanol	Column 1:	50.49075	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.77045	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1

Analysis Date(s): 19 Jul 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1999	0.2004	0.0005	0.2001	0.2006	
(g/100cc)	0.2013	0.2009	0.0004	0.2011		

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: ML600HC11378

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

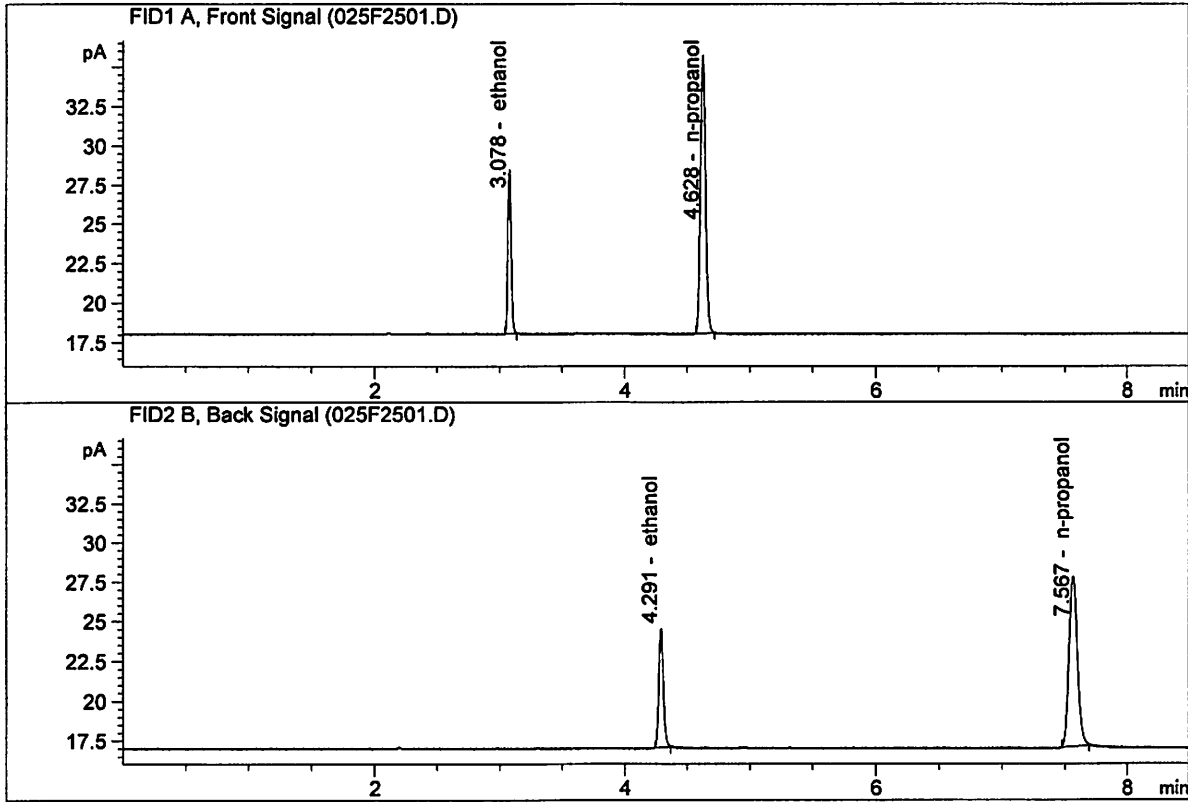
Overall Mean (g/100cc)	Low	High	5% of Mean
0.200	0.190	0.210	0.010

	Reported Result	
	0.200	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A
 Laboratory : Meridian
 Injection Date : Jul 19, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

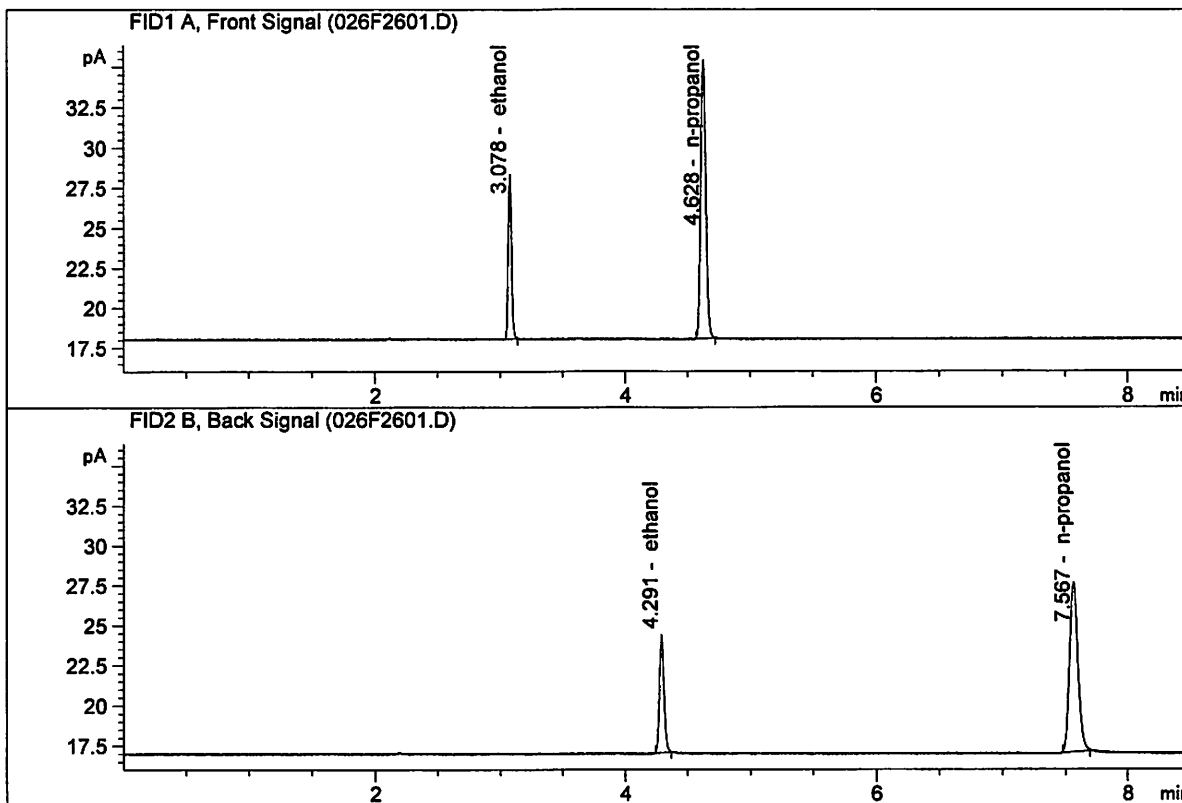


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.01506	0.1999	g/100cc
2.	Ethanol	Column 2:	19.86479	0.2004	g/100cc
3.	n-Propanol	Column 1:	50.31524	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.56772	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

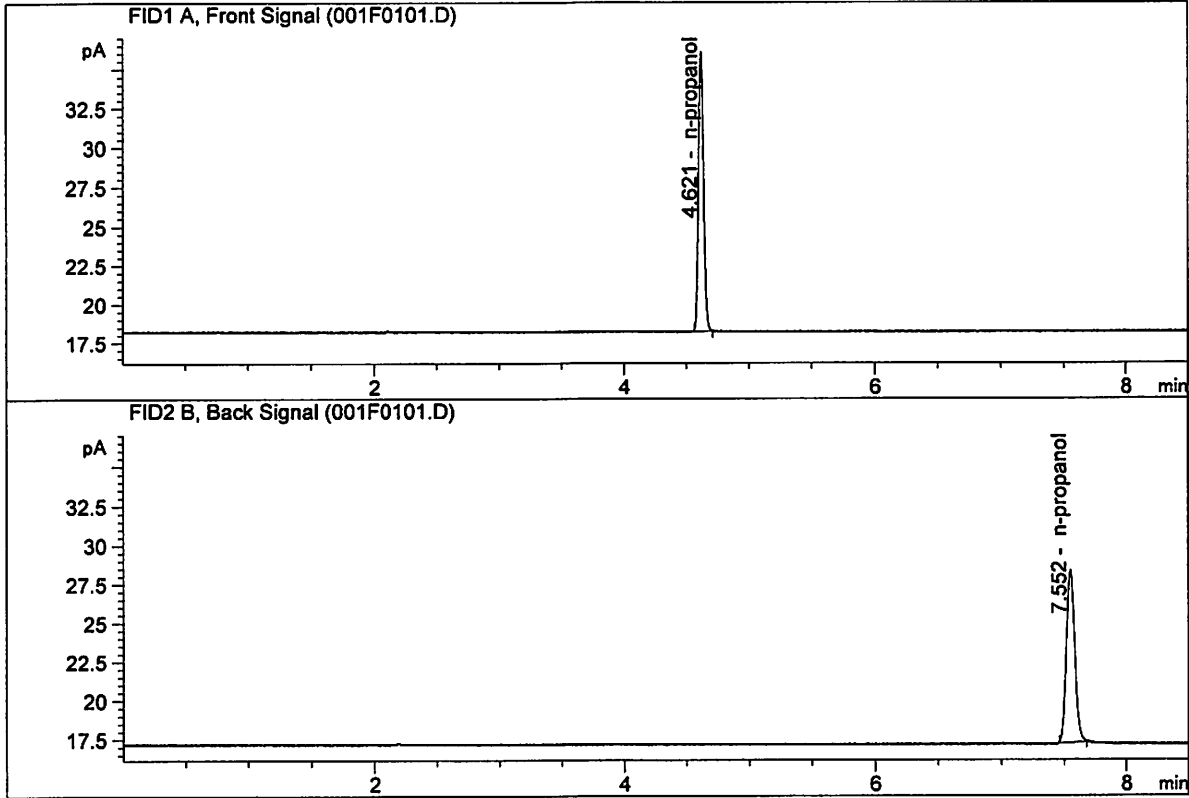
Sample Name : QC2-1-B
 Laboratory : Meridian
 Injection Date : Jul 19, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.85752	0.2013	g/100cc
2.	Ethanol	Column 2:	19.62643	0.2009	g/100cc
3.	n-Propanol	Column 1:	49.55847	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.82892	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
 Laboratory : Meridian
 Injection Date : Jul 19, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

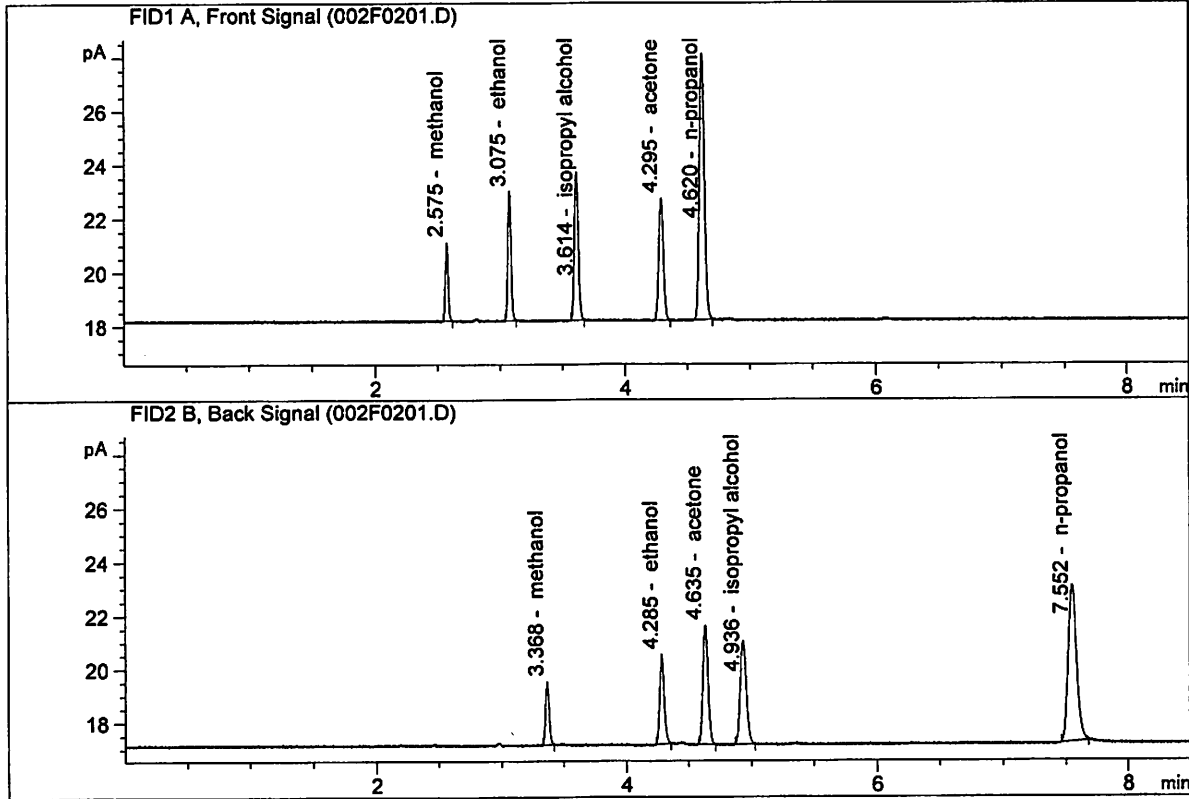


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	50.75370	1.0000	g/100cc
4.	n-Propanol	Column 2:	53.11348	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN06041503
 Laboratory : Meridian
 Injection Date : Jul 19, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

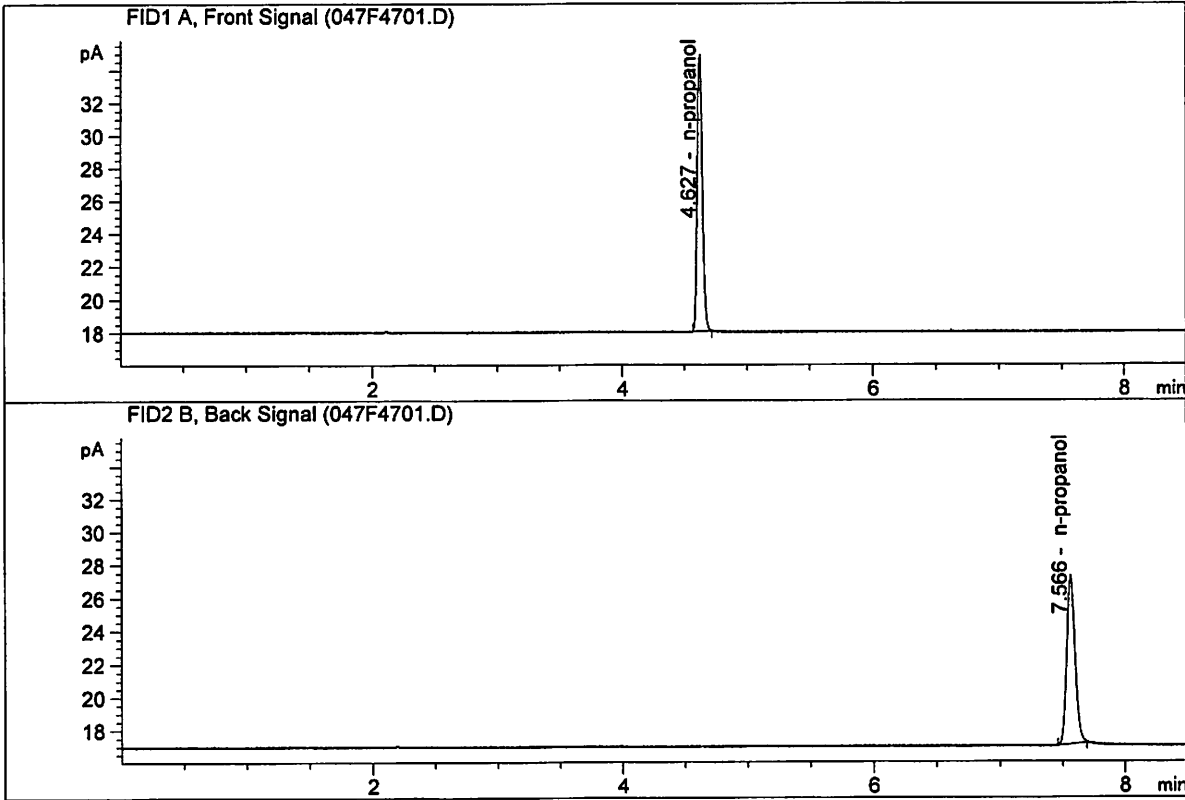


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.55452	0.1629	g/100cc
2.	Ethanol	Column 2:	8.80089	0.1626	g/100cc
3.	n-Propanol	Column 1:	27.82139	1.0000	g/100cc
4.	n-Propanol	Column 2:	28.30902	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
 Laboratory : Meridian
 Injection Date : Jul 20, 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:	47.98306	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.29272	1.0000	g/100cc

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

Sequence table: C:\Chem32\1\Data\07-19-18_SAMPLES\07-19-18_SAMPLES 2018-07-19 15-42-39\07-19-18_SAMPLES.S
 Data directory path: C:\Chem32\1\Data\07-19-18_SAMPLES\07-19-18_SAMPLES 2018-07-19 15-42-39\
 Logbook: C:\Chem32\1\Data\07-19-18_SAMPLES\07-19-18_SAMPLES 2018-07-19 15-42-39\07-19-18_SAMPLES.LOG
 Sequence start: 7/19/2018 3:57:25 PM
 Sequence Operator: SYSTEM
 Operator: SYSTEM
 Method file name: C:\Chem32\1\Data\07-19-18_SAMPLES\07-19-18_SAMPLES 2018-07-19 15-42-39\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	M2018-3471-1-A	-	1.0000	007F0701.D		4
8	8	1	M2018-3471-1-B	-	1.0000	008F0801.D		4
9	9	1	M2018-3472-1-A	-	1.0000	009F0901.D		6
10	10	1	M2018-3472-1-B	-	1.0000	010F1001.D		6
11	11	1	M2018-3473-1-A	-	1.0000	011F1101.D		4
12	12	1	M2018-3473-1-B	-	1.0000	012F1201.D		4
13	13	1	M2018-3474-1-A	-	1.0000	013F1301.D		4
14	14	1	M2018-3474-1-B	-	1.0000	014F1401.D		4
15	15	1	M2018-3476-1-A	-	1.0000	015F1501.D		4
16	16	1	M2018-3476-1-B	-	1.0000	016F1601.D		4
17	17	1	M2018-3482-1-A	-	1.0000	017F1701.D		6
18	18	1	M2018-3482-1-B	-	1.0000	018F1801.D		6
19	19	1	M2018-3491-1-A	-	1.0000	019F1901.D		4
20	20	1	M2018-3491-1-B	-	1.0000	020F2001.D		4
21	21	1	M2018-3495-1-A	-	1.0000	021F2101.D		4
22	22	1	M2018-3495-1-B	-	1.0000	022F2201.D		4
23	23	1	M2018-3503-1-A	-	1.0000	023F2301.D		4
24	24	1	M2018-3503-1-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	M2018-3504-1-A	-	1.0000	027F2701.D		2
28	28	1	M2018-3504-1-B	-	1.0000	028F2801.D		2
29	29	1	M2018-3538-1-A	-	1.0000	029F2901.D		4
30	30	1	M2018-3538-1-B	-	1.0000	030F3001.D		4
31	31	1	M2018-3543-1-A	-	1.0000	031F3101.D		4
32	32	1	M2018-3543-1-B	-	1.0000	032F3201.D		4
33	33	1	M2018-3547-1-A	-	1.0000	033F3301.D		2
34	34	1	M2018-3547-1-B	-	1.0000	034F3401.D		2
35	35	1	M2018-3556-1-A	-	1.0000	035F3501.D		2
36	36	1	M2018-3556-1-B	-	1.0000	036F3601.D		2
37	37	1	M2018-3556-2-A	-	1.0000	037F3701.D		2
38	38	1	M2018-3556-2-B	-	1.0000	038F3801.D		2
39	39	1	M2018-3556-3-A	-	1.0000	039F3901.D		2
40	40	1	M2018-3556-3-B	-	1.0000	040F4001.D		2
41	41	1	M2018-3557-1-A	-	1.0000	041F4101.D		5
42	42	1	M2018-3557-1-B	-	1.0000	042F4201.D		4
43	43	1	M2018-3558-1-A	-	1.0000	043F4301.D		2

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Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #
44	44	1	M2018-3558-1-B	-	1.0000	044F4401.D	2
45	45	1	QC1-2-A	-	1.0000	045F4501.D	4
46	46	1	QC1-2-B	-	1.0000	046F4601.D	4
47	47	1	INTERNAL STD BLK	-	1.0000	047F4701.D	2

Method file name: C:\Chem32\1\Data\07-19-18_SAMPLES\07-19-18_SAMPLES 2018-07-19 15-42-39 \SHUTDOWN.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #
48	48	1	EMPTY	-	1.0000	048F4801.D	0

JK