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 Date(s):9/22/17-9/23/17

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	0.0759 g/100cc
					0.0770 g/100cc
					g/100cc
Level 2	Jul-18	1407032	0.2020	0.1818-.2222	0.1990 g/100cc
					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~~ 20	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	0.077 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: 1913

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2017-4091	6	95873	Alcohol Analysis
M2017-4272	1	94820	Alcohol Analysis
M2017-4273	1	94824	Alcohol Analysis
M2017-4276	1	94842	Alcohol Analysis
M2017-4286	1	94892	Alcohol Analysis
M2017-4292	1	94915	Alcohol Analysis
M2017-4296	1	94932	Alcohol Analysis
M2017-4297	1	94936	Alcohol Analysis
M2017-4298	1	94940	Alcohol Analysis
M2017-4299	1	94944	Alcohol Analysis
M2017-4300	1	95612	Alcohol Analysis
M2017-4300	2	95611	Alcohol Analysis
M2017-4301	1	94950	Alcohol Analysis
M2017-4302	1	94951	Alcohol Analysis
M2017-4307	1	94977	Alcohol Analysis
M2017-4324	1	95130	Alcohol Analysis
M2017-4336	1	95221	Alcohol Analysis
P2017-2140	1	95623	Alcohol Analysis
P2017-2140	2	95624	Alcohol Analysis

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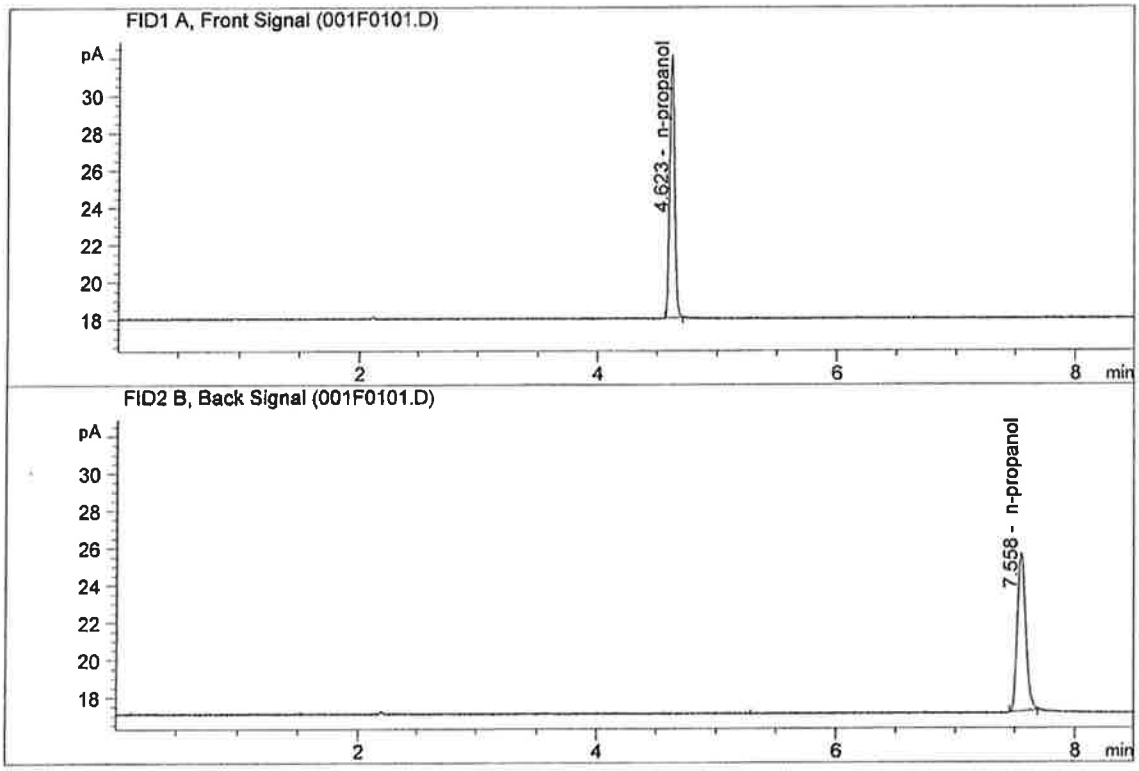
ISP Forensic Services Blood Alcohol Report

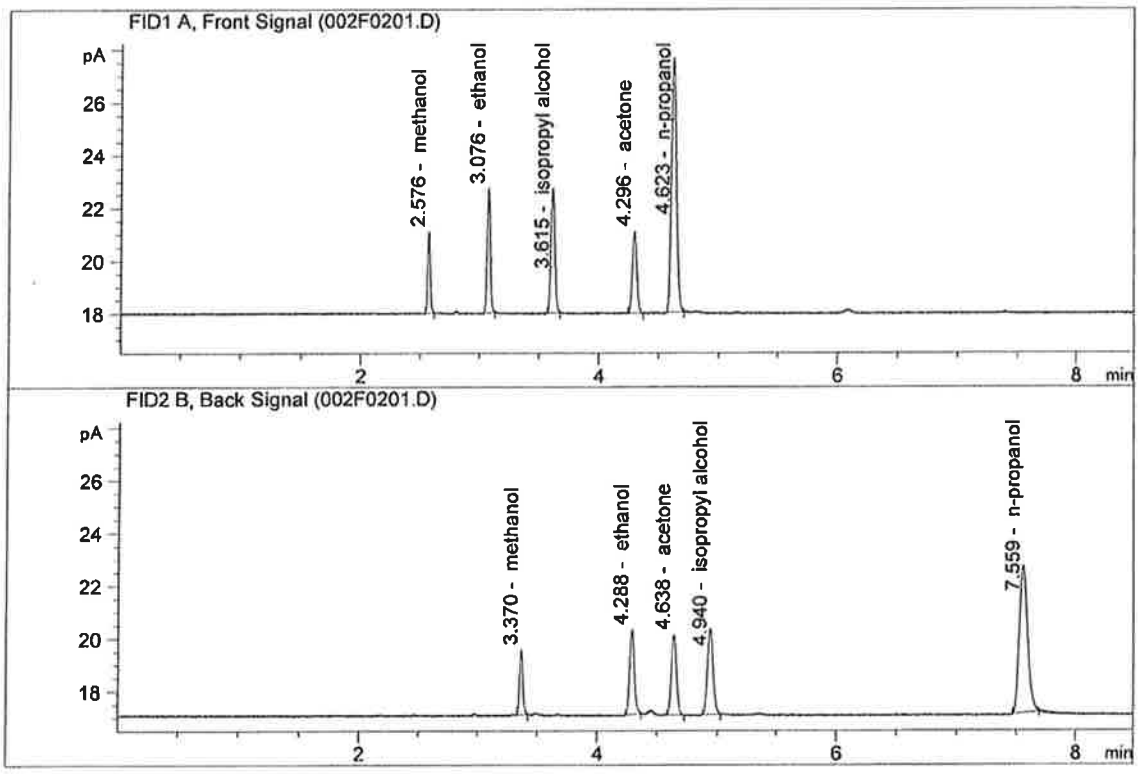
Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Sep 22, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	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:	40.20051	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.01391	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name	:	MIX VOL FN09231404
Laboratory	:	Meridian
Injection Date	:	Sep 22, 2017
Method	:	ALCOHOL.M
Acq. Instrument	:	CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.49887	0.1437	g/100cc
2.	Ethanol	Column 2:	8.64778	0.1422	g/100cc
3.	n-Propanol	Column 1:	27.26300	1.0000	g/100cc
4.	n-Propanol	Column 2:	27.06213	1.0000	g/100cc

36

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 22 Sep 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0766	0.0739	0.0027	0.0752	0.0759	
(g/100cc)	0.0781	0.0752	0.0029	0.0766		

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
0.075	**0.071**	**0.079**	**0.004**

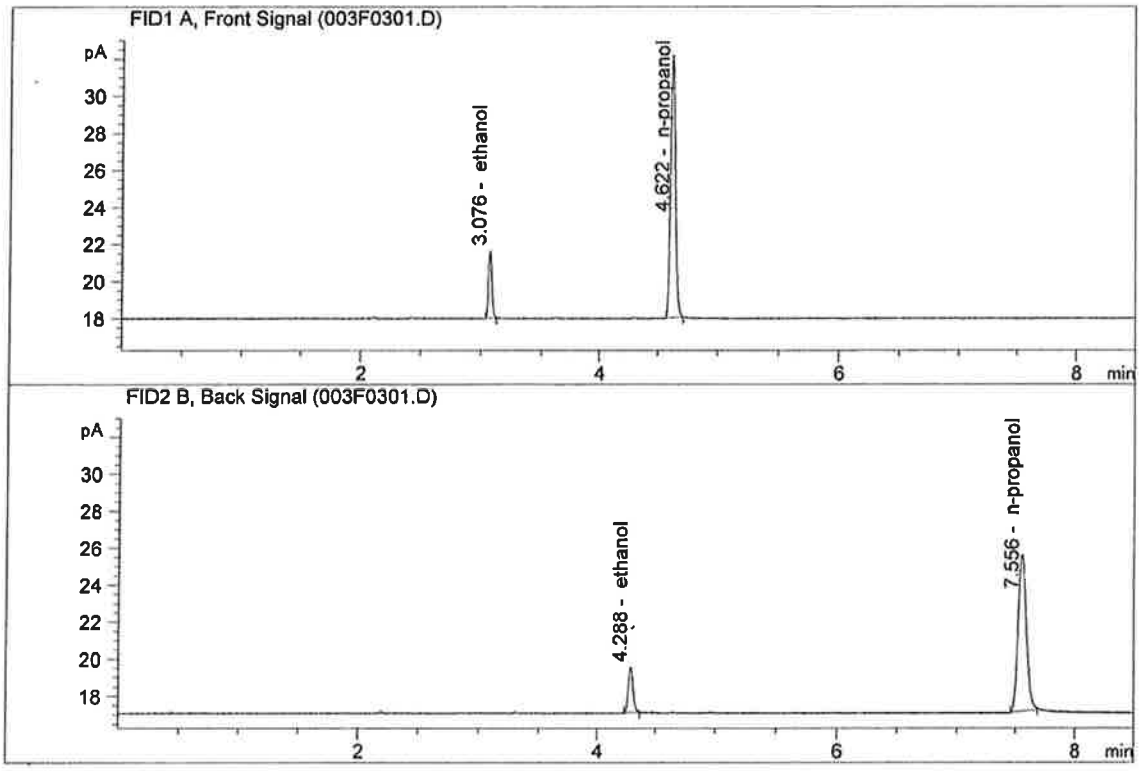
Reported Result

0.075

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
Laboratory : Meridian
Injection Date : Sep 22, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.72759	0.0766	g/100cc
2.	Ethanol	Column 2:	6.76341	0.0739	g/100cc
3.	n-Propanol	Column 1:	40.48186	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.70132	1.0000	g/100cc

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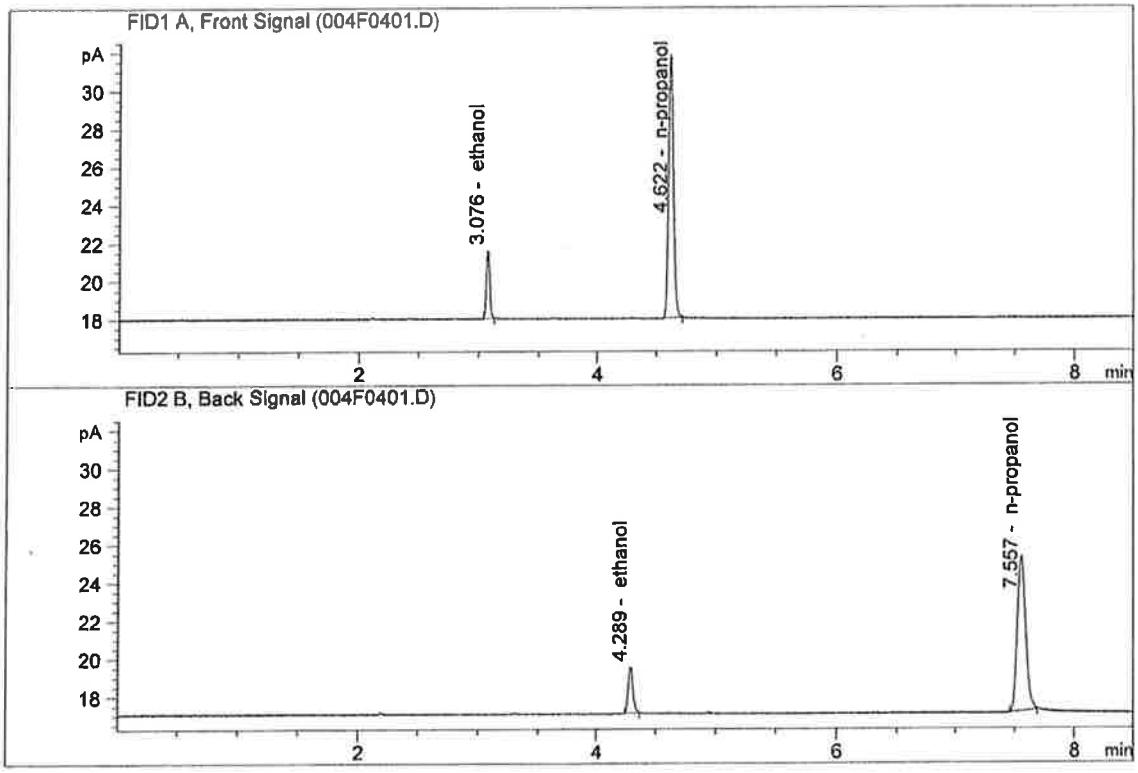
ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
Laboratory : Meridian
Injection Date : Sep 22, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.65597	0.0781	g/100cc
2.	Ethanol	Column 2:	6.63866	0.0752	g/100cc
3.	n-Propanol	Column 1:	39.25988	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.29124	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN10281510 **Analysis Date(s): 22 Sep 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0785	0.0758	0.0027	0.0771	0.0775	
(g/100cc)	0.0798	0.0760	0.0038	0.0779		

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%**

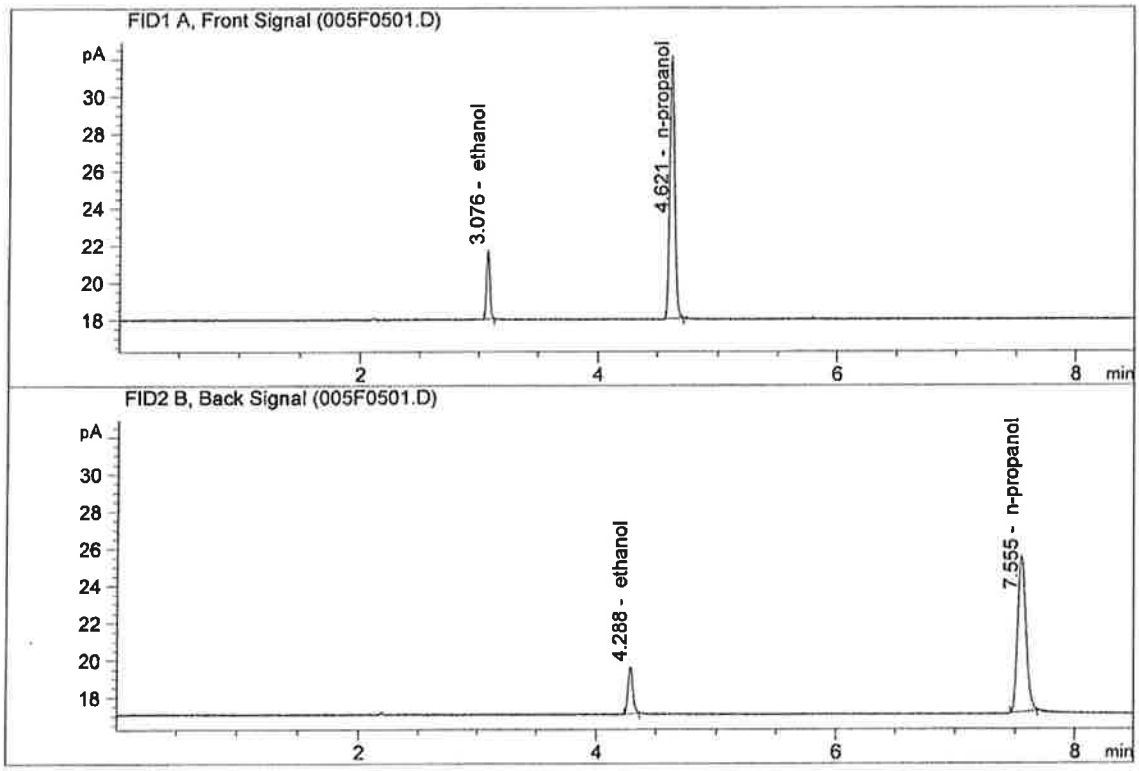
Overall Mean (g/100cc)	Low	High	5% of Mean
0.077	**0.073**	**0.081**	**0.004**

	Reported Result	
	0.077	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-A
Laboratory : Meridian
Injection Date : Sep 22, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.86503	0.0785	g/100cc
2.	Ethanol	Column 2:	6.88957	0.0758	g/100cc
3.	n-Propanol	Column 1:	40.31819	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.41946	1.0000	g/100cc

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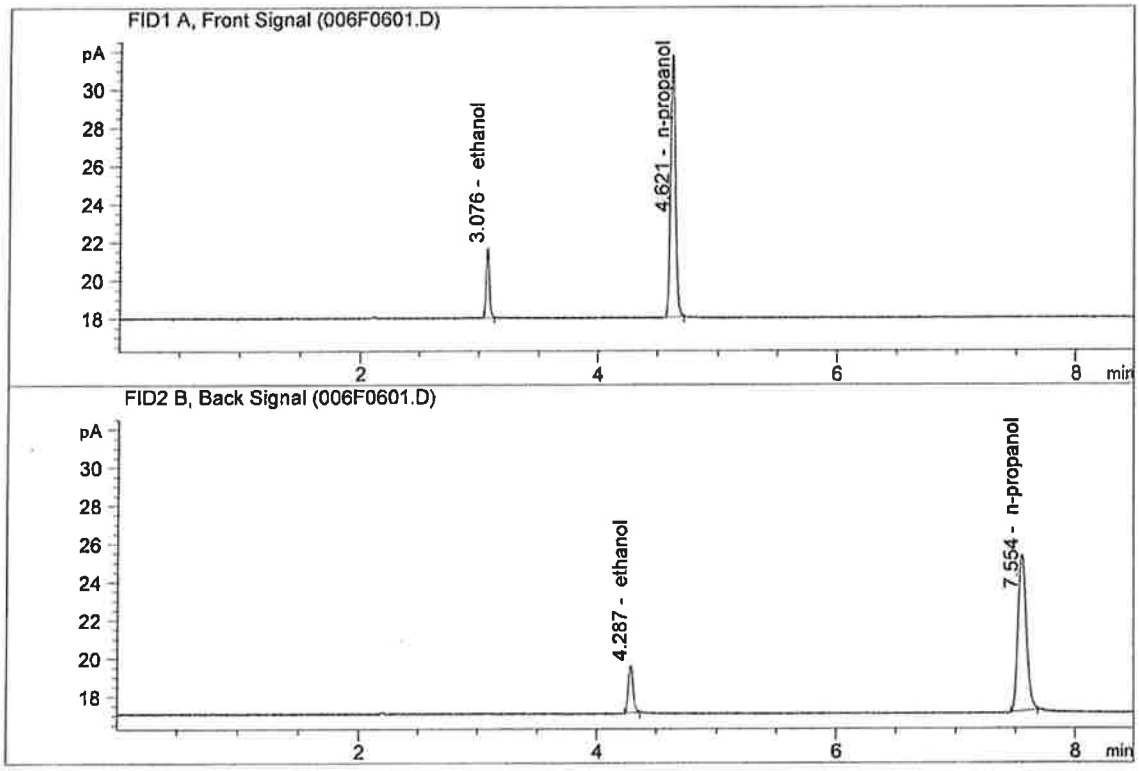
ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-B
Laboratory : Meridian
Injection Date : Sep 22, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.80287	0.0798	g/100cc
2.	Ethanol	Column 2:	6.71513	0.0760	g/100cc
3.	n-Propanol	Column 1:	39.29643	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.30611	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 22 Sep 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2006	0.1980	0.0026	0.1993	0.1998	
(g/100cc)	0.2016	0.1991	0.0025	0.2003		

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
0.199	**0.189**	**0.209**	**0.010**

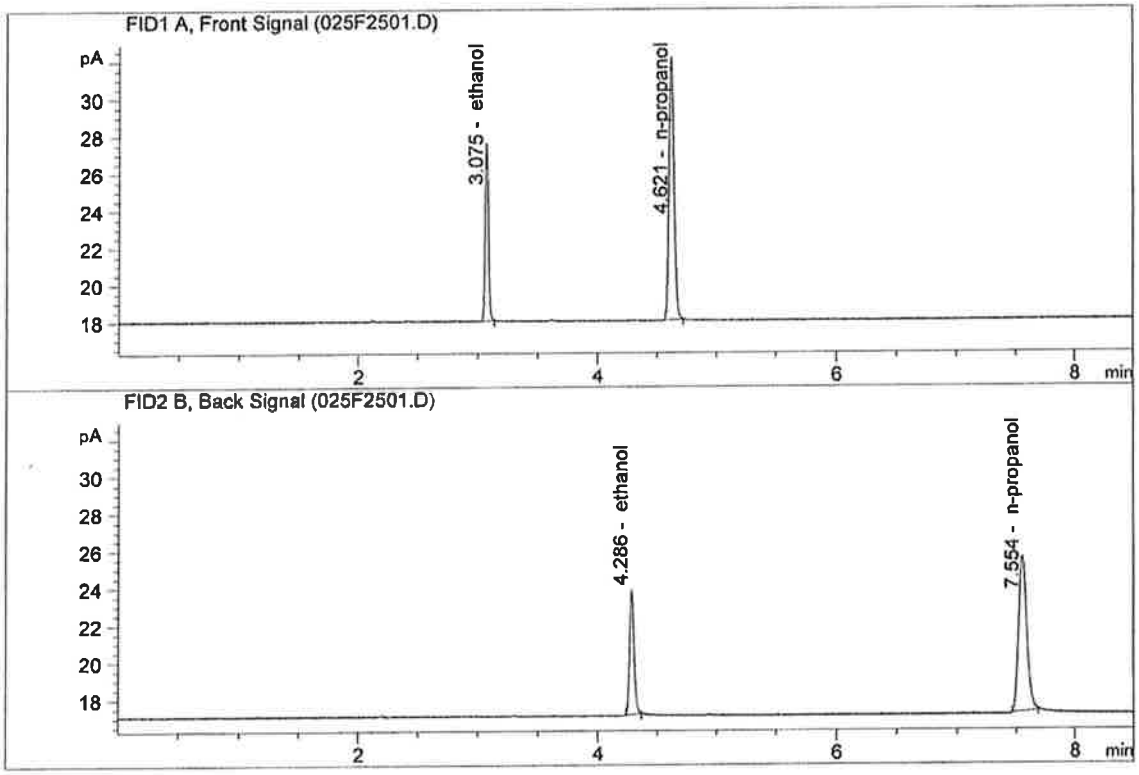
	Reported Result	
	0.199	

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A
Laboratory : Meridian
Injection Date : Sep 22, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.58224	0.2006	g/100cc
2.	Ethanol	Column 2:	17.92079	0.1980	g/100cc
3.	n-Propanol	Column 1:	40.40357	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.27248	1.0000	g/100cc

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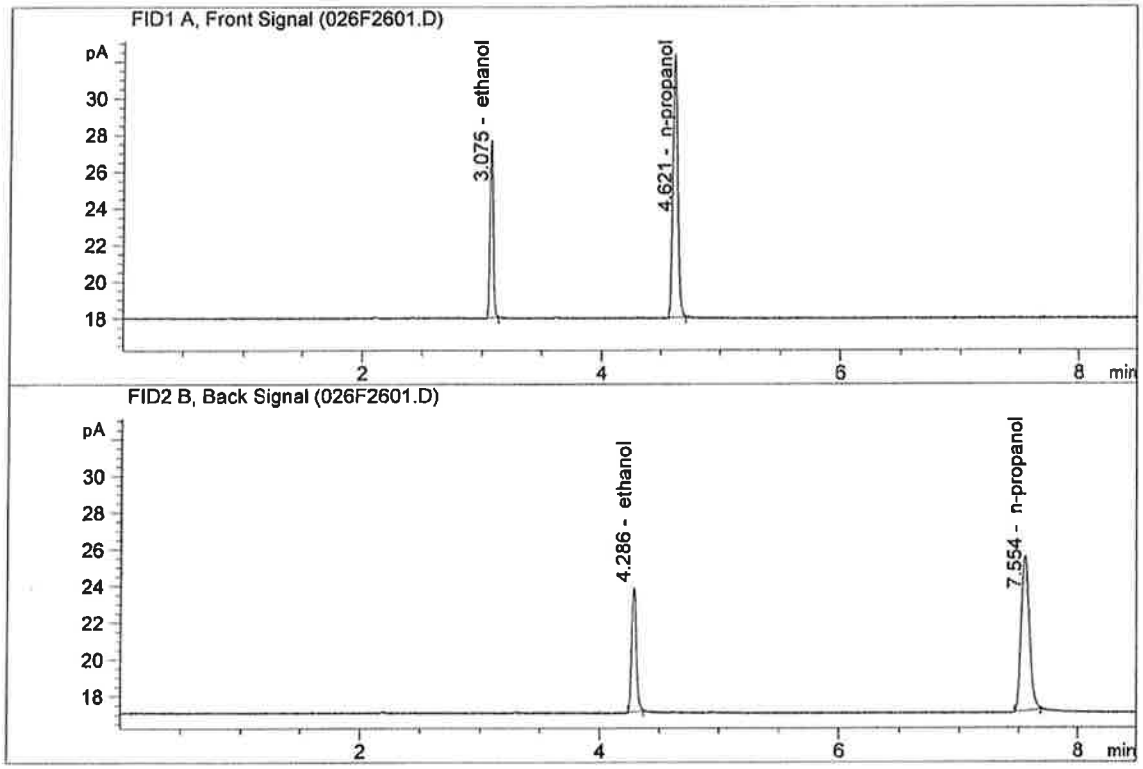
ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
Laboratory : Meridian
Injection Date : Sep 22, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.87424	0.2016	g/100cc
2.	Ethanol	Column 2:	18.25023	0.1991	g/100cc
3.	n-Propanol	Column 1:	40.86118	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.77985	1.0000	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Analysis Date(s): 22 Sep 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0792	0.0766	0.0026	0.0779	0.0770	
(g/100cc)	0.0776	0.0748	0.0028	0.0762		

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	

Calibration and control data are stored centrally.

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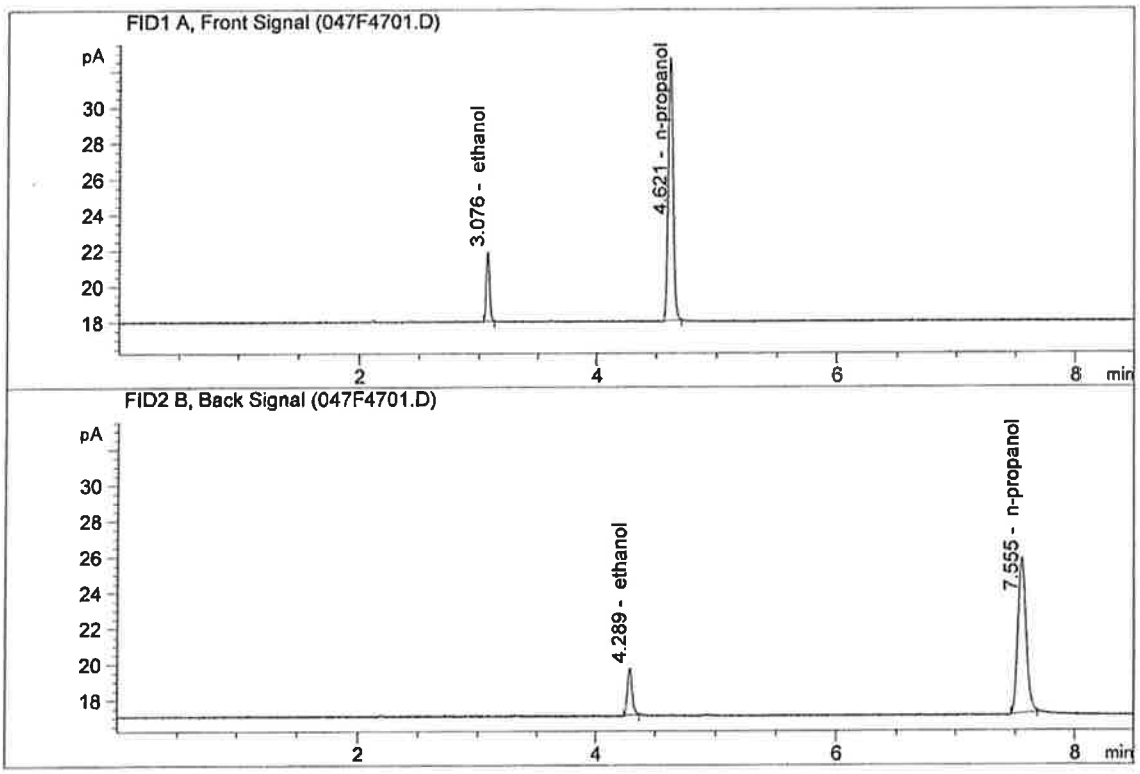
ISP Forensic Services Blood Alcohol Report

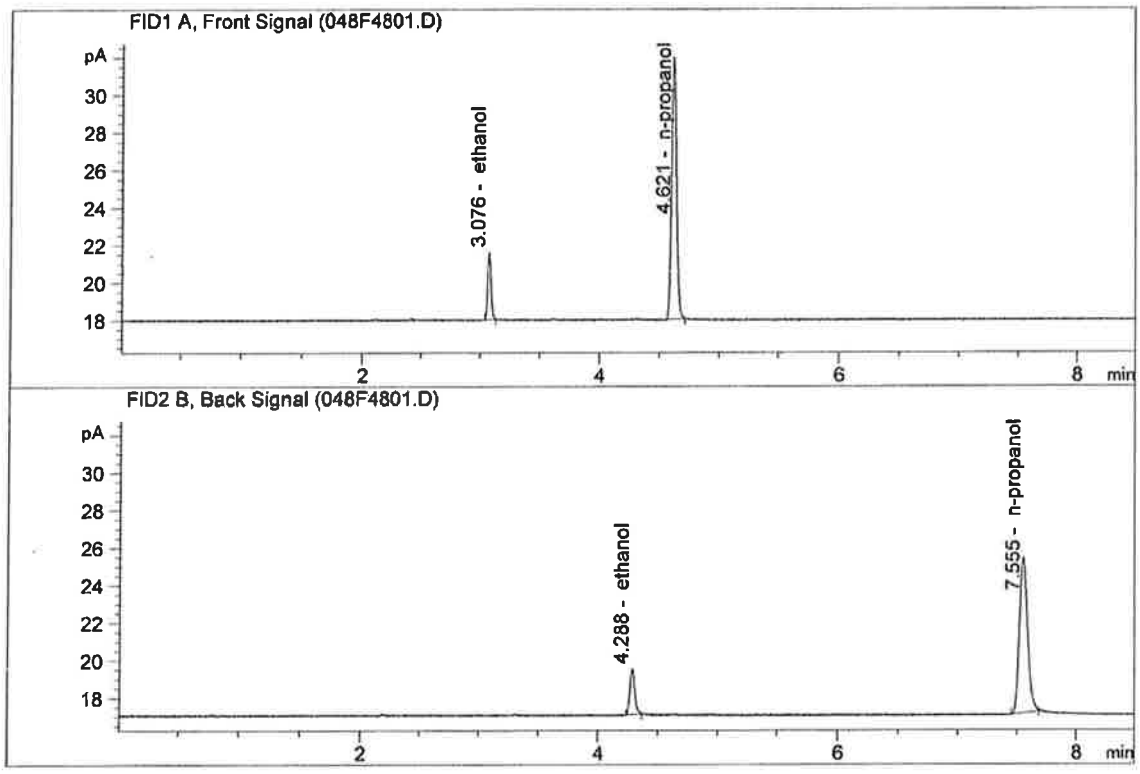
Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : Sep 22, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.19808	0.0792	g/100cc
2.	Ethanol	Column 2:	7.18889	0.0766	g/100cc
3.	n-Propanol	Column 1:	41.87780	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.77902	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : Sep 22, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.70177	0.0776	g/100cc
2.	Ethanol	Column 2:	6.69870	0.0748	g/100cc
3.	n-Propanol	Column 1:	39.79791	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.85389	1.0000	g/100cc

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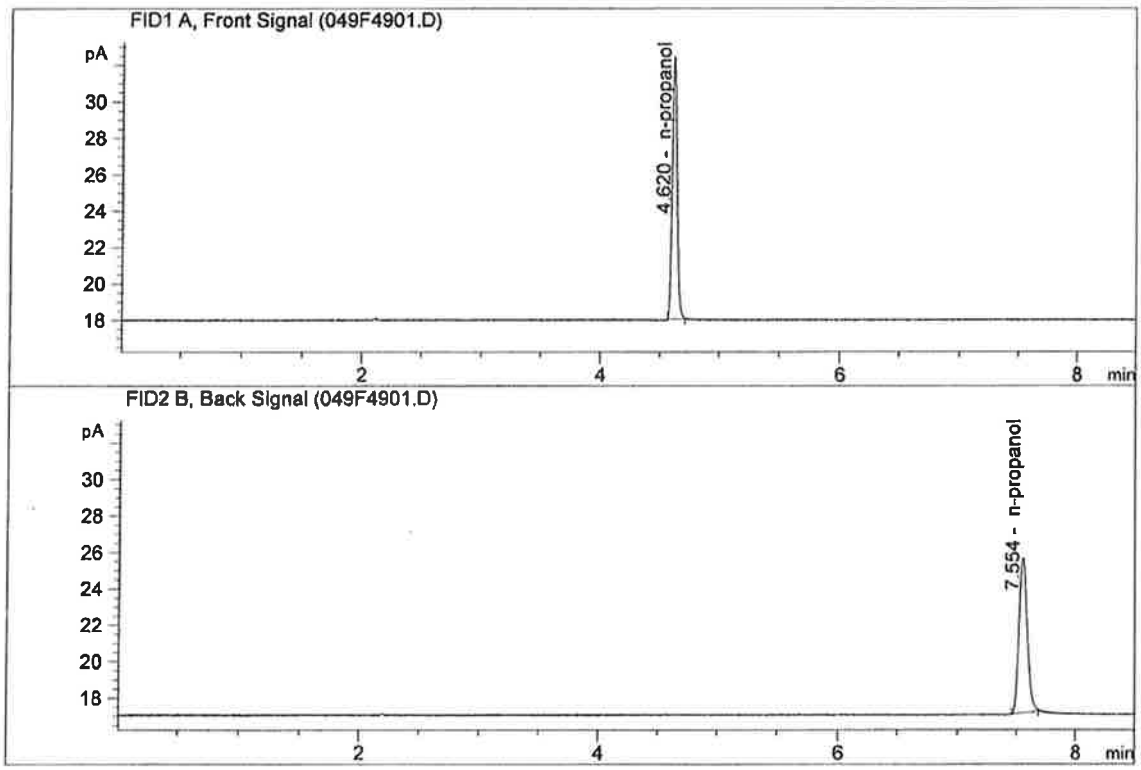
ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Sep 22, 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:	41.09900	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.30206	1.0000	g/100cc

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Sample Summary

Sequence table: C:\Chem32\1\Data\09-22-17_SAMPLES\09-22-17_SAMPLES 2017-09-22 11-36-47\09-22-17_SAMPLES.S
Data directory path: C:\Chem32\1\Data\09-22-17_SAMPLES\09-22-17_SAMPLES 2017-09-22 11-36-47\
Logbook: C:\Chem32\1\Data\09-22-17_SAMPLES\09-22-17_SAMPLES 2017-09-22 11-36-47\09-22-17_SAMPLES.LOG
Sequence start: 9/22/2017 11:51:30 AM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\09-22-17_SAMPLES\09-22-17_SAMPLES 2017-09-22 11-36-47\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	M2017-4091-6-A	-	1.0000	007F0701.D		6
8	8	1	M2017-4091-6-B	-	1.0000	008F0801.D		6
9	9	1	M2017-4272-1-A	-	1.0000	009F0901.D		6
10	10	1	M2017-4272-1-B	-	1.0000	010F1001.D		6
11	11	1	M2017-4273-1-A	-	1.0000	011F1101.D		2
12	12	1	M2017-4273-1-B	-	1.0000	012F1201.D		2
13	13	1	M2017-4276-1-A	-	1.0000	013F1301.D		6
14	14	1	M2017-4276-1-B	-	1.0000	014F1401.D		6
15	15	1	M2017-4286-1-A	-	1.0000	015F1501.D		4
16	16	1	M2017-4286-1-B	-	1.0000	016F1601.D		4
17	17	1	M2017-4292-1-A	-	1.0000	017F1701.D		4
18	18	1	M2017-4292-1-B	-	1.0000	018F1801.D		4
19	19	1	M2017-4296-1-A	-	1.0000	019F1901.D		2
20	20	1	M2017-4296-1-B	-	1.0000	020F2001.D		2
21	21	1	M2017-4297-1-A	-	1.0000	021F2101.D		4
22	22	1	M2017-4297-1-B	-	1.0000	022F2201.D		4
23	23	1	M2017-4298-1-A	-	1.0000	023F2301.D		6
24	24	1	M2017-4298-1-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	M2017-4299-1-A	-	1.0000	027F2701.D		2
28	28	1	M2017-4299-1-B	-	1.0000	028F2801.D		2
29	29	1	M2017-4300-1-A	-	1.0000	029F2901.D		6
30	30	1	M2017-4300-1-B	-	1.0000	030F3001.D		6
31	31	1	M2017-4300-2-A	-	1.0000	031F3101.D		6
32	32	1	M2017-4300-2-B	-	1.0000	032F3201.D		6
33	33	1	M2017-4301-1-A	-	1.0000	033F3301.D		6
34	34	1	M2017-4301-1-B	-	1.0000	034F3401.D		6
35	35	1	M2017-4302-1-A	-	1.0000	035F3501.D		6
36	36	1	M2017-4302-1-B	-	1.0000	036F3601.D		6
37	37	1	M2017-4307-1-A	-	1.0000	037F3701.D		6
38	38	1	M2017-4307-1-B	-	1.0000	038F3801.D		6
39	39	1	M2017-4324-1-A	-	1.0000	039F3901.D		6
40	40	1	M2017-4324-1-B	-	1.0000	040F4001.D		6
41	41	1	M2017-4336-1-A	-	1.0000	041F4101.D		2
42	42	1	M2017-4336-1-B	-	1.0000	042F4201.D		2
43	43	1	P2017-2140-1-A	-	1.0000	043F4301.D		4

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Sequence File C:\Chem32\...7_SAMPLES\09-22-17_SAMPLES 2017-09-22 11-36-47\09-22-17_SAMPLES.S

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
44	44	1	P2017-2140-1-B	-	1.0000	044F4401.D	4
45	45	1	P2017-2140-2-A	-	1.0000	045F4501.D	4
46	46	1	P2017-2140-2-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	INTERNAL STD BLK	-	1.0000	049F4901.D	2

Method file name: C:\Chem32\1\Data\09-22-17_SAMPLES\09-22-17_SAMPLES 2017-09-22 11-36-47\SHUTDOWN.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
50	50	1	EMPTY	-	1.0000	050F5001.D	0

36