

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: 12/28/18

Calibration Date: 12/28/18

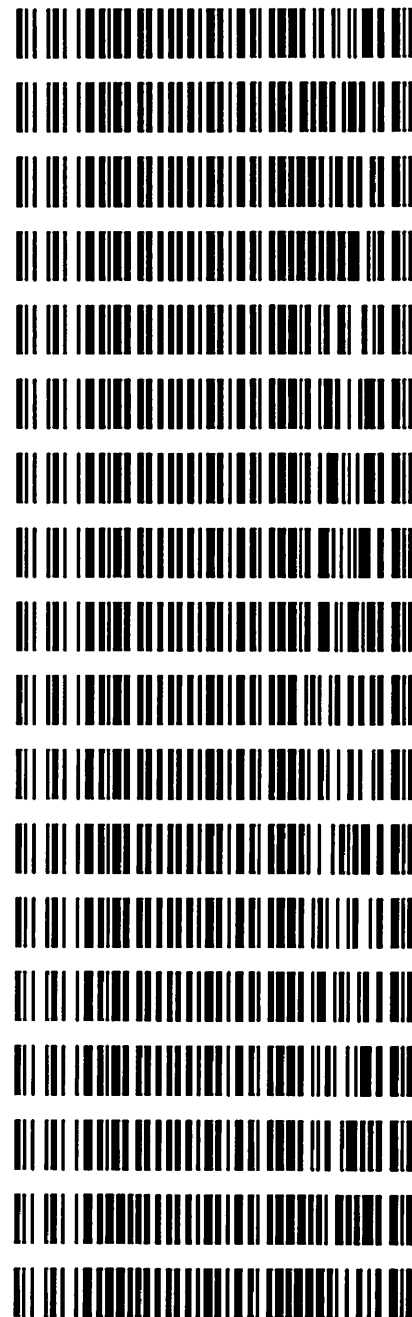
Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jan-22	1801036	0.0812	0.0731-0.0893	0.0796 g/100cc 0.0845 g/100cc g/100cc
Level 2	Mar-22	1803028	0.2035	0.1832-0.2238	0.2000 g/100cc g/100cc g/100cc
Multi-Component mixture:		Exp date: Sept. 2020	Lot #	FN06041502	OK
Curve Fit:		Column 1	1.00000	Column2	0.99998

Ethanol Calibration Reference Material		Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
Calibrator level	Expiration	Cerilliant Lot #					
0.050	Jun-21	FN04271601	0.050	0.045 - 0.055	0.0503	0.0014	0.051
0.080			0.080	0.072 - 0.088		0	#DIV/0!
0.100	Aug-21	FN08101601	0.100	0.090 - 0.110	0.0999	0.0005	0.0996
0.200	Apr-21	FN03301601	0.200	0.180 - 0.220	0.1997	0.0012	0.1991
0.300	Jun-20	FN06051501	0.300	0.270 - 0.330	0.3001	0.0003	0.2999
0.400			0.400	0.360 - 0.440		0	#DIV/0!
0.500	Sep-21	FN08031602	0.500	0.450 - 0.550	0.5001	0.0006	0.5004

Aqueous Controls		Target Value	Acceptable Range	Overall Results
Control level	Expiration	Cerilliant Lot #		
0.080	May-22	FN04171701	0.08000	0.076 - 0.084 0.079 g/100cc

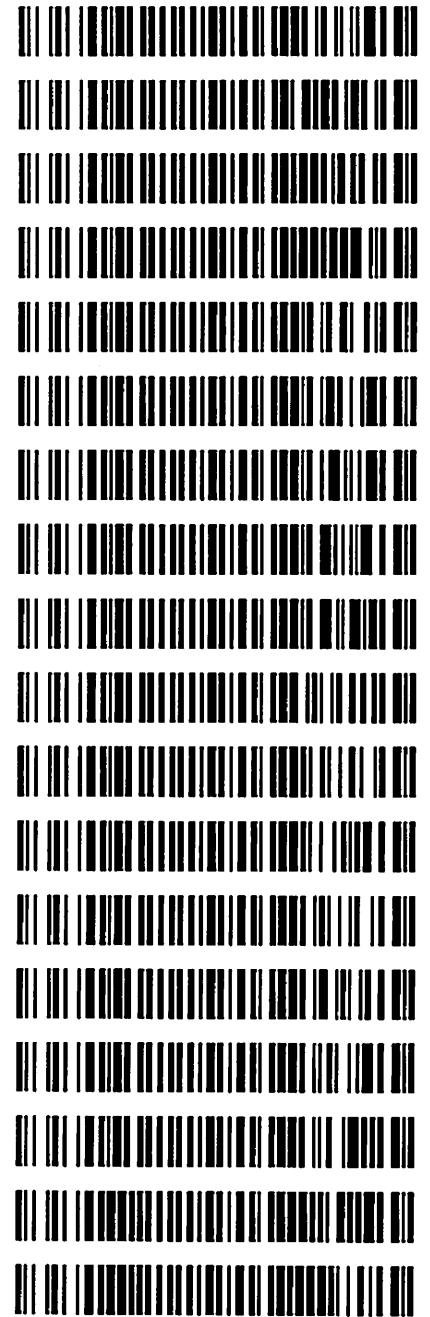
Worklist: 2867

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>
M2018-5719	2	135149	Alcohol Analysis
M2018-6088	3	134348	Alcohol Analysis
M2018-6184	1	134812	Alcohol Analysis
M2018-6185	1	134832	Alcohol Analysis
M2018-6201	2	134890	Alcohol Analysis
M2018-6222	2	134892	Alcohol Analysis
M2018-6229	1	134928	Alcohol Analysis
M2018-6230	1	134929	Alcohol Analysis
M2018-6231	1	134930	Alcohol Analysis
M2018-6263	2	135000	Alcohol Analysis
M2018-6264	1	135053	Alcohol Analysis
M2018-6270	1	135094	Alcohol Analysis
M2018-6273	1	135145	Alcohol Analysis
M2018-6277	1	135162	Alcohol Analysis
M2018-6281	1	135172	Alcohol Analysis
M2018-6282	1	135173	Alcohol Analysis
P2018-3497	1	134398	Alcohol Analysis
P2018-3523	2	134839	Alcohol Analysis



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M2018-6230	1	134929	Alcohol Analysis
M2018-6231	1	134930	Alcohol Analysis
M2018-6263	2	135000	Alcohol Analysis
M2018-6264	1	135053	Alcohol Analysis
M2018-6270	1	135094	Alcohol Analysis
M2018-6273	1	135145	Alcohol Analysis
M2018-6277	1	135162	Alcohol Analysis
M2018-6281	1	135172	Alcohol Analysis
M2018-6282	1	135173	Alcohol Analysis
P2018-3497	1	134398	Alcohol Analysis
P2018-3523	2	134839	Alcohol Analysis



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Calibration Table
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General Calibration Setting

Calib. Data Modified : Friday, December 28, 2018 10:46:20 AM
Signals calculated separately : No

Rel. Reference Window : 0.000 %
Abs. Reference Window : 0.100 min
Rel. Non-ref. Window : 0.000 %
Abs. Non-ref. Window : 0.100 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Default Sample ISTD Information (if not set in sample table):

ISTD #	ISTD Amount [g/100cc]	Name
1	1.00000	n-propanol
2	1.00000	n-propanol

Signal Details

Signal 1: FID1 A, Front Signal
Signal 2: FID2 B, Back Signal

Overview Table

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RT	Sig	Lvl	Amount [g/100cc]	Area	Rsp.Factor	Ref	ISTD #	Compound
2.586	1	1	1.00000	3.69669	2.70512e-1	No	No	1 methanol
2.809	1	1	1.00000	4.26100	2.34687e-1	No	No	2 Acetaldehyde
2.977	2	1	1.00000	4.26100	2.34687e-1	No	No	2 Acetaldehyde
3.075	1	1	5.00000e-2	4.65589	1.07391e-2	No	No	1 ethanol
		2	1.00000e-1	9.22056	1.08453e-2			
		3	2.00000e-1	18.40607	1.08660e-2			
		4	3.00000e-1	27.87200	1.07635e-2			
		5	5.00000e-1	46.52290	1.07474e-2			
3.388	2	1	1.00000	4.26062	2.34707e-1	No	No	2 methanol
3.628	1	1	1.00000	9.73055	1.02769e-1	No	No	1 isopropyl alcohol
4.285	2	1	5.00000e-2	4.79970	1.04173e-2	No	No	2 ethanol
		2	1.00000e-1	9.51344	1.05114e-2			
		3	2.00000e-1	19.22630	1.04024e-2			
		4	3.00000e-1	29.31839	1.02325e-2			
		5	5.00000e-1	49.27648	1.01468e-2			
4.308	1	1	1.00000	6.49940	1.53860e-1	No	No	1 acetone
4.620	1	1	1.00000	50.97479	1.96175e-2	No	Yes	1 n-propanol
		2	1.00000	50.60676	1.97602e-2			
		3	1.00000	50.41838	1.98340e-2			
		4	1.00000	50.76781	1.96975e-2			
		5	1.00000	50.82323	1.96760e-2			
4.661	2	1	1.00000	6.89301	1.45075e-1	No	No	2 acetone
4.969	2	1	1.00000	10.70642	9.34019e-2	No	No	2 isopropyl alcohol
7.550	2	1	1.00000	53.18661	1.88017e-2	No	Yes	2 n-propanol
		2	1.00000	52.82743	1.89296e-2			
		3	1.00000	52.39926	1.90842e-2			
		4	1.00000	52.58273	1.90176e-2			
		5	1.00000	52.64596	1.89948e-2			

 Peak Sum Table

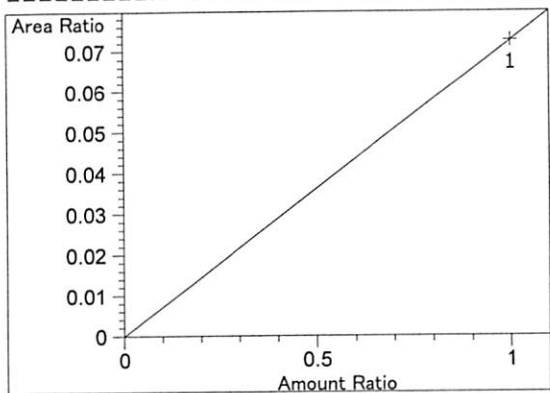
No Entries in table

41 Warnings or Errors (10 first messages follow) :

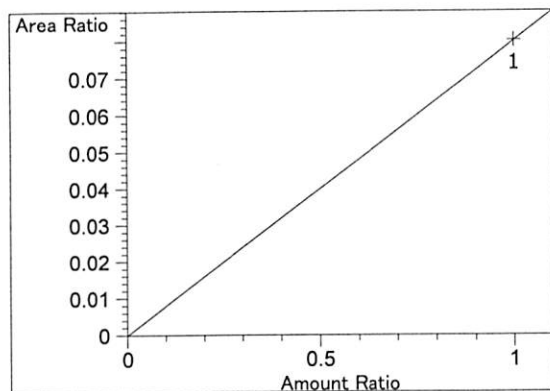
Warning : Curve requires more calibration points., (methanol)
 Warning : Curve requires more calibration points. at 2.586 min, signal 1
 Warning : Curve requires more calibration points. at 2.809 min, signal 1
 Warning : Curve requires more calibration points. at 2.977 min, signal 2
 Warning : Curve requires more calibration points. at 3.388 min, signal 2
 Warning : Curve requires more calibration points. at 3.628 min, signal 1
 Warning : Curve requires more calibration points. at 4.308 min, signal 1
 Warning : Curve requires more calibration points. at 4.62 min, signal 1
 Warning : Curve requires more calibration points. at 4.661 min, signal 2
 Warning : Curve requires more calibration points. at 4.969 min, signal 2

JK

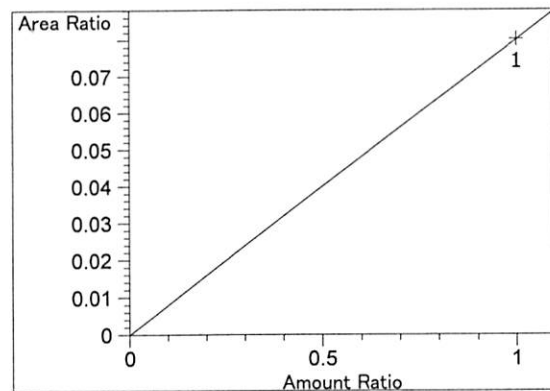
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 Calibration Curves
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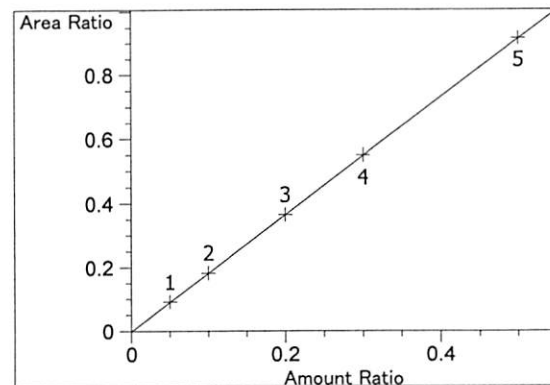
methanol at exp. RT: 2.586
 FID1 A, Front Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 7.25201e-2
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio



Acetaldehyde at exp. RT: 2.809
 FID1 A, Front Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 8.01141e-2
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio

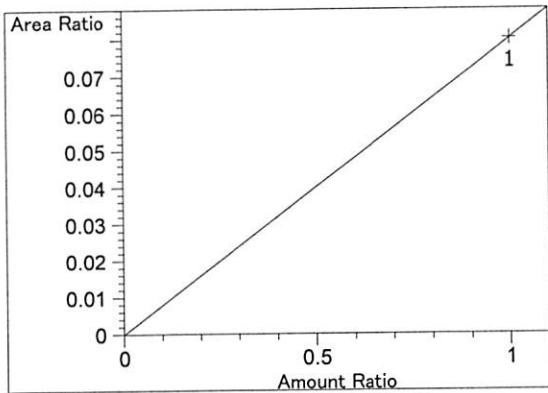


Acetaldehyde at exp. RT: 2.977
 FID2 B, Back Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 8.01141e-2
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio

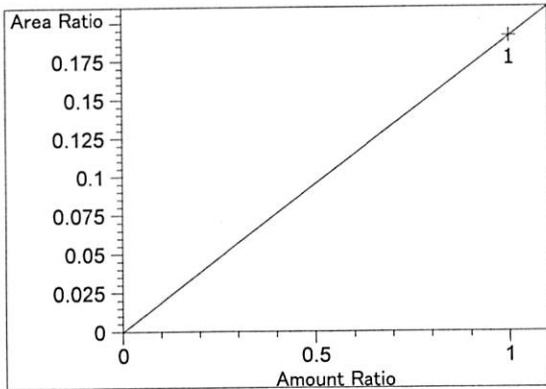


ethanol at exp. RT: 3.075
 FID1 A, Front Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00048
 Formula: $y = mx + b$
 m: 1.83208
 b: -7.78581e-4
 x: Amount Ratio
 y: Area Ratio

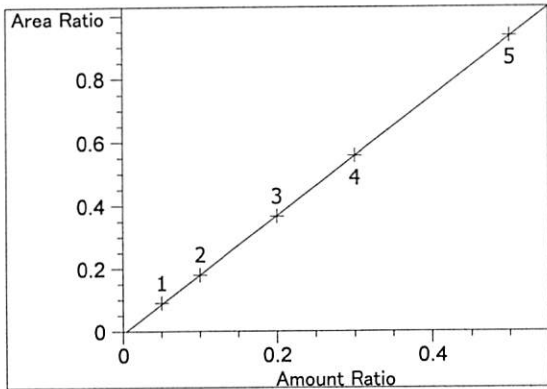
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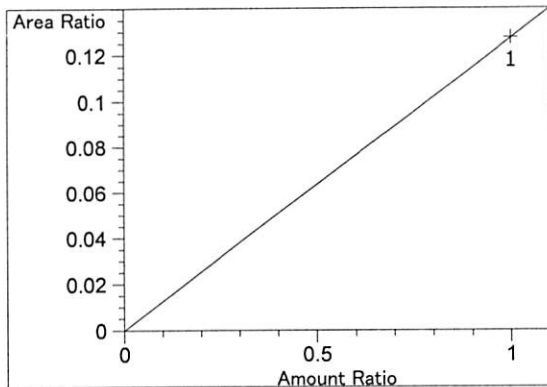
methanol at exp. RT: 3.388
 FID2 B, Back Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: $8.01071e-2$
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio



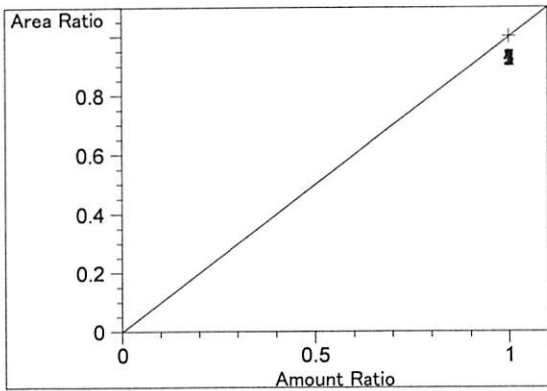
isopropyl alcohol at exp. RT: 3.628
 FID1 A, Front Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: $1.90890e-1$
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio



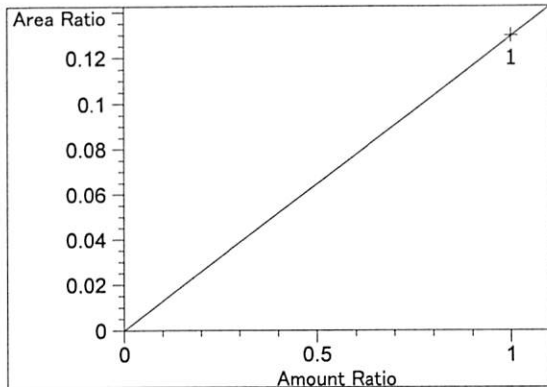
ethanol at exp. RT: 4.285
 FID2 B, Back Signal
 Correlation: 0.99998
 Residual Std. Dev.: 0.00262
 Formula: $y = mx + b$
 m: 1.88349
 b: $-7.04023e-3$
 x: Amount Ratio
 y: Area Ratio



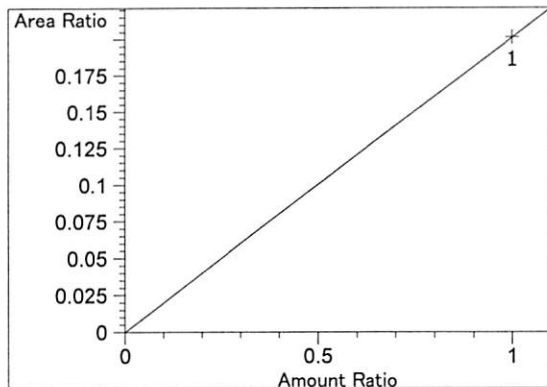
acetone at exp. RT: 4.308
 FID1 A, Front Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: $1.27502e-1$
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio



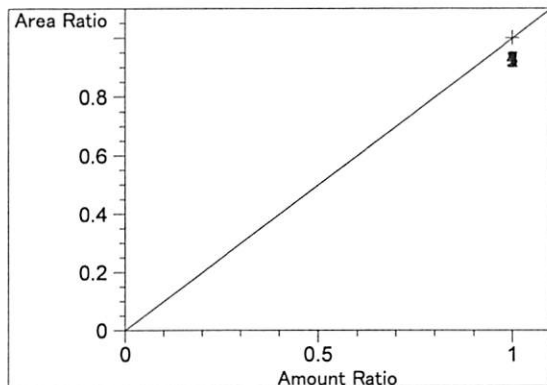
n-propanol at exp. RT: 4.620
 FID1 A, Front Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 1.00000
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio



acetone at exp. RT: 4.661
 FID2 B, Back Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 1.29600e-1
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio



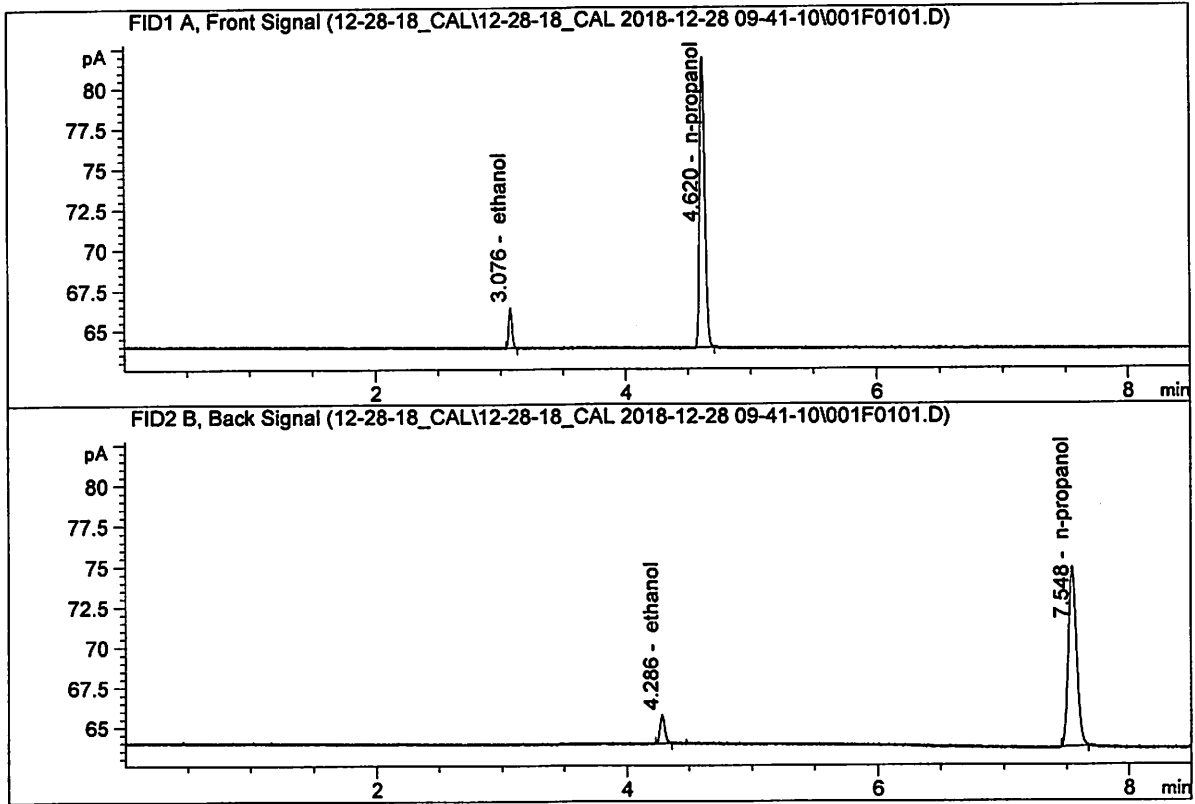
isopropyl alcohol at exp. RT: 4.969
 FID2 B, Back Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 2.01299e-1
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio



n-propanol at exp. RT: 7.550
 FID2 B, Back Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 1.00000
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio

ISP Forensic Services Blood Alcohol Report

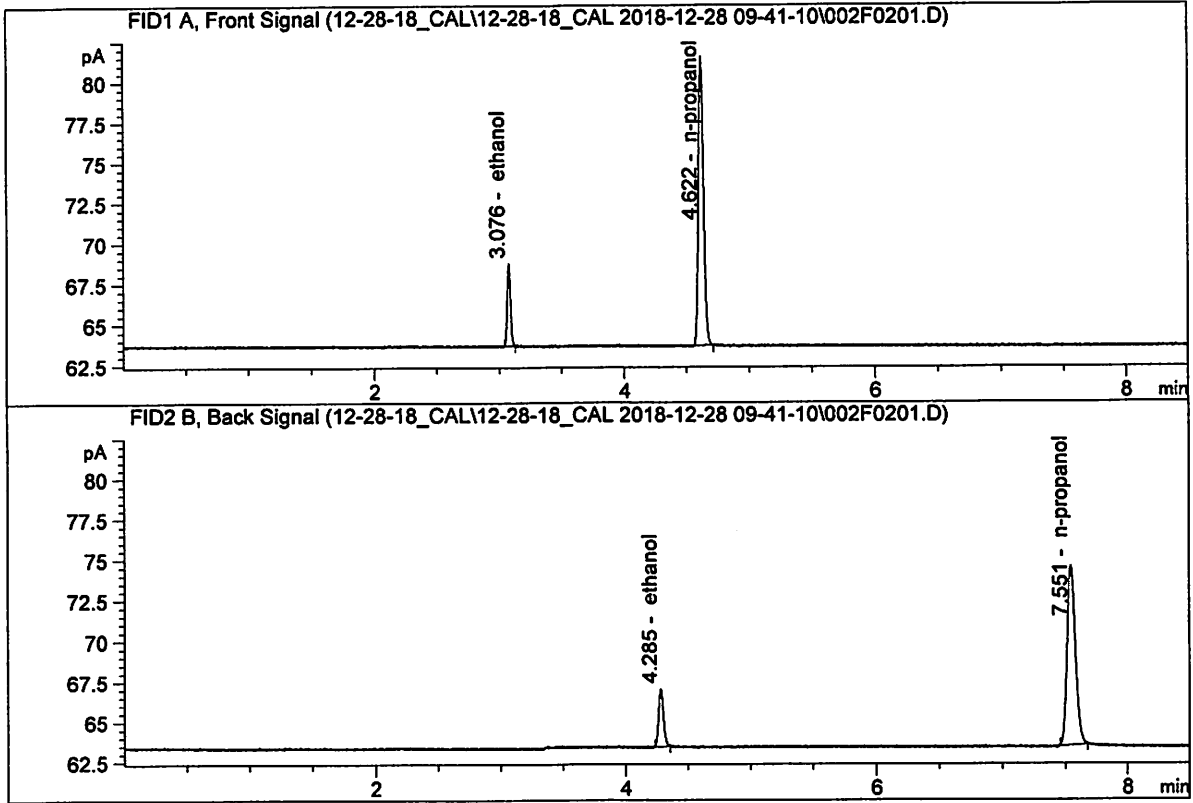
Sample Name : 0.050 FN04271601
 Laboratory : Meridian
 Injection Date : Dec 28, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	4.65589	0.0503	g/100cc
2.	Ethanol	Column 2:	4.79970	0.0517	g/100cc
3.	n-Propanol	Column 1:	50.97479	1.0000	g/100cc
4.	n-Propanol	Column 2:	53.18661	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

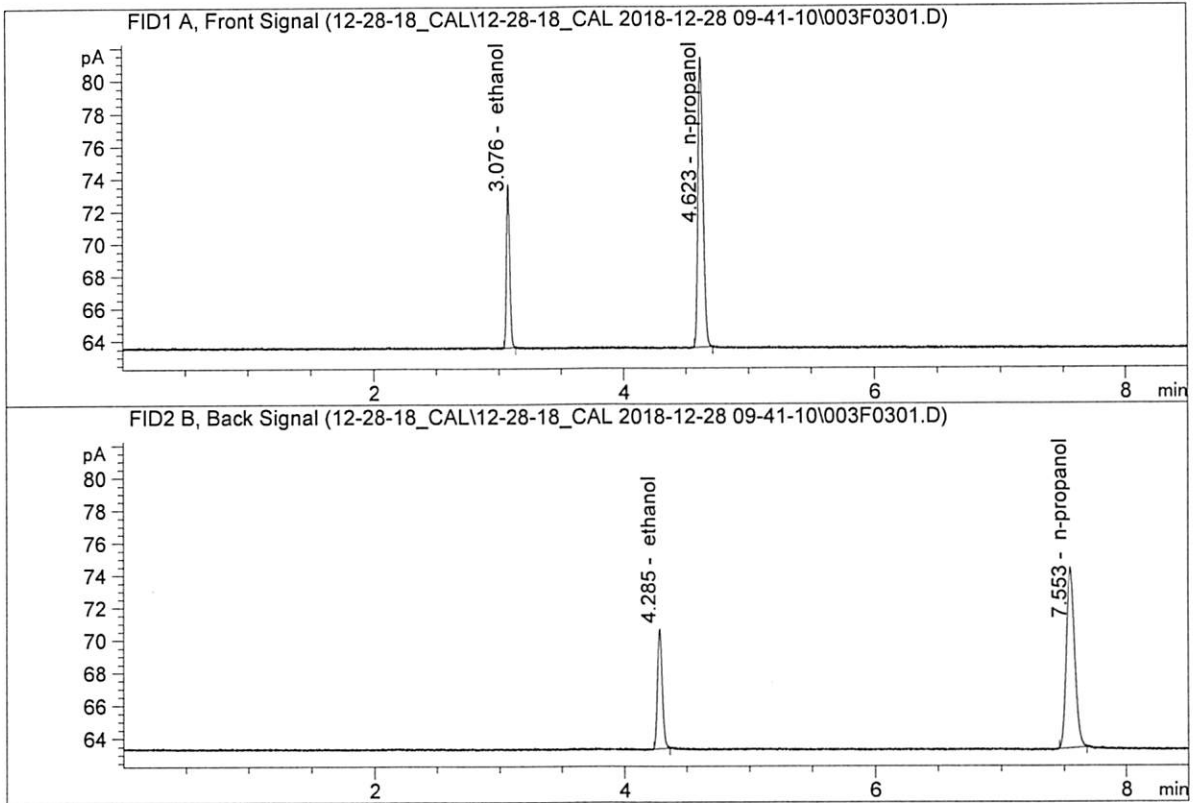
Sample Name : 0.100 FN08101601
 Laboratory : Meridian
 Injection Date : Dec 28, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	9.22056	0.0999	g/100cc
2.	Ethanol	Column 2:	9.51344	0.0994	g/100cc
3.	n-Propanol	Column 1:	50.60676	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.82743	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

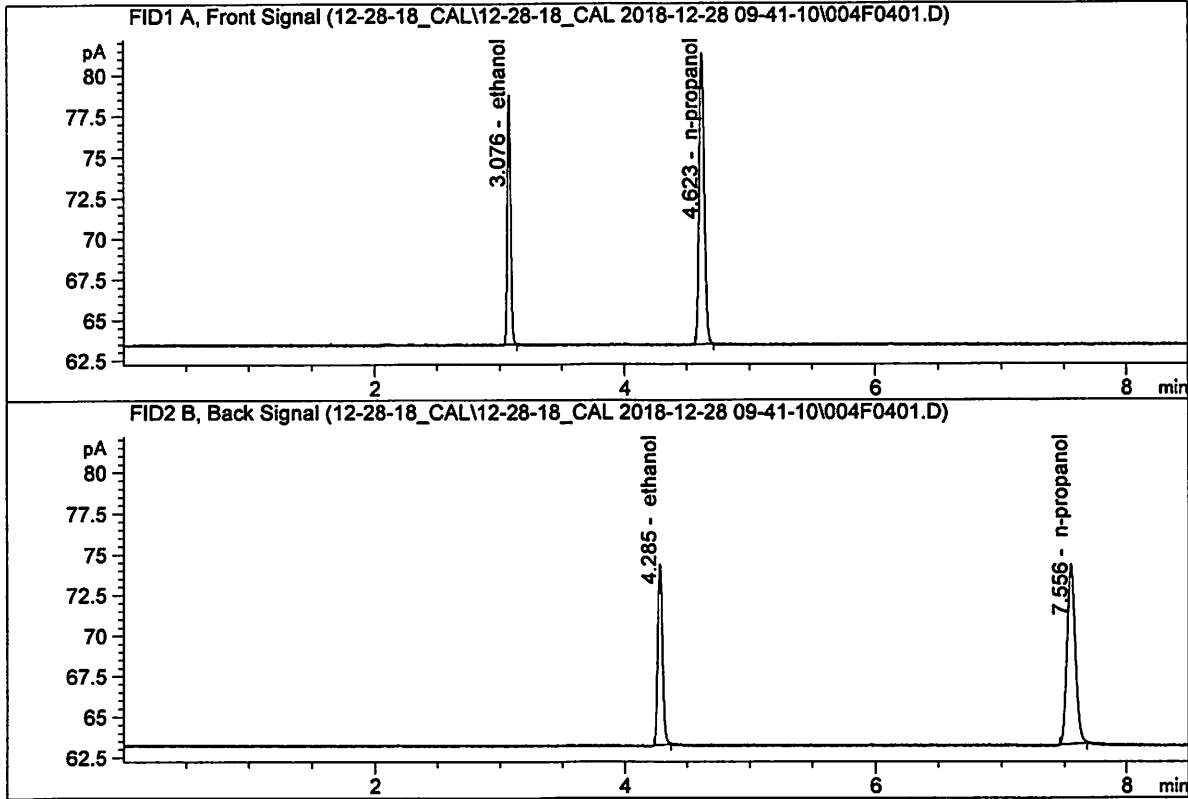
Sample Name : 0.200 FN03301601
 Laboratory : Meridian
 Injection Date : Dec 28, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.40607	0.1997	g/100cc
2.	Ethanol	Column 2:	19.22630	0.1985	g/100cc
3.	n-Propanol	Column 1:	50.41838	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.39926	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

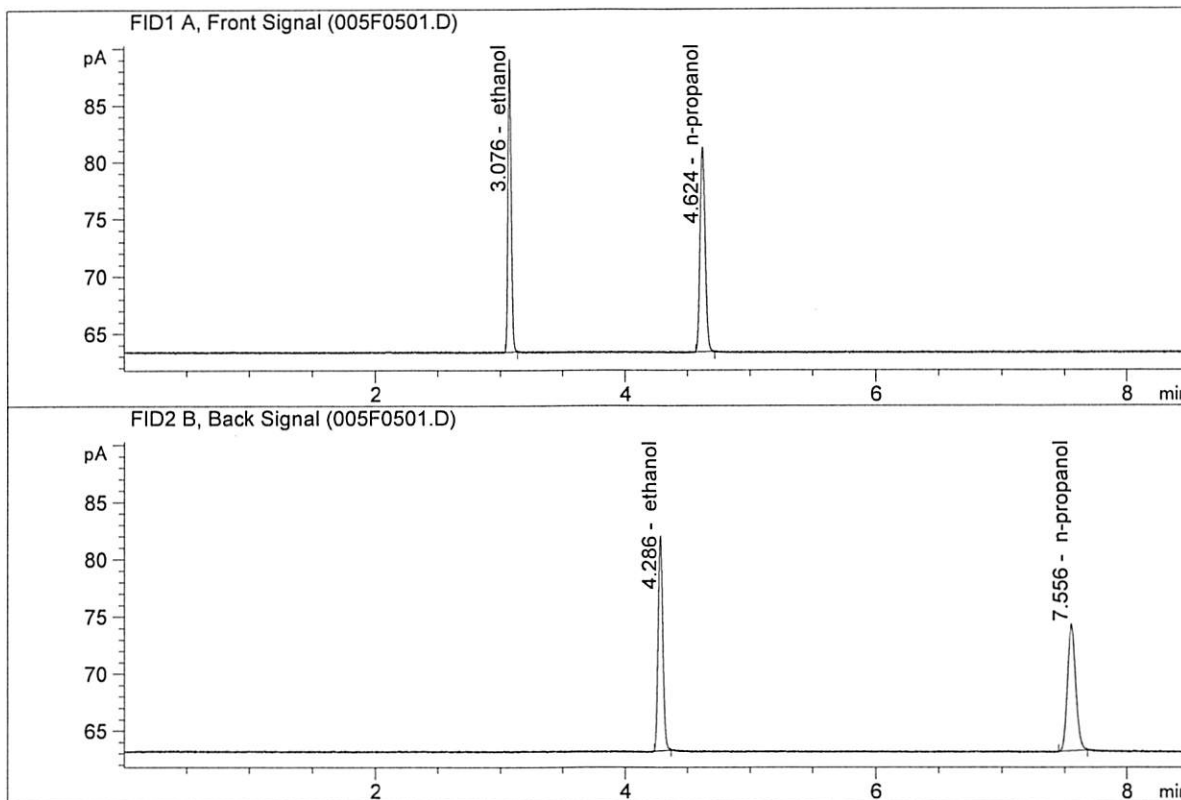
Sample Name : 0.300 FN06051501
 Laboratory : Meridian
 Injection Date : Dec 28, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	27.87200	0.3001	g/100cc
2.	Ethanol	Column 2:	29.31839	0.2998	g/100cc
3.	n-Propanol	Column 1:	50.76781	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.58273	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.500 FN08031602
 Laboratory : Meridian
 Injection Date : Dec 28, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

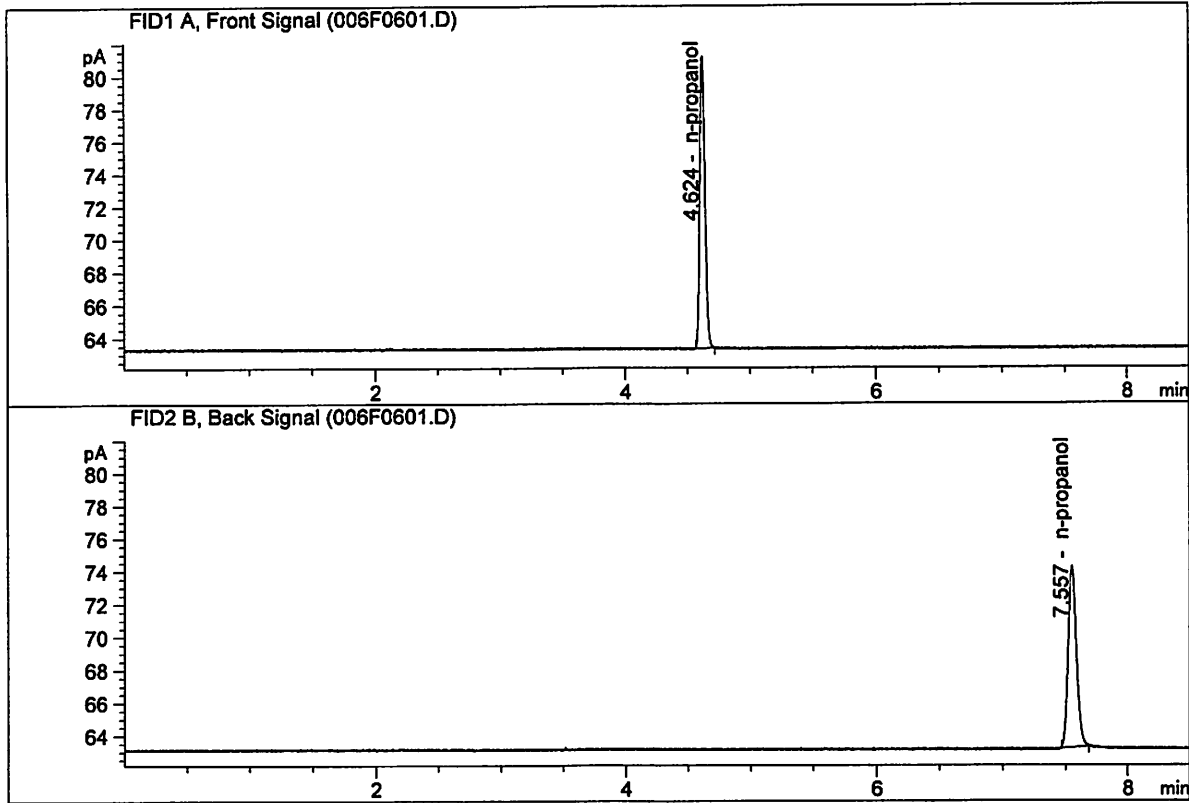


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	46.52290	0.5001	g/100cc
2.	Ethanol	Column 2:	49.27648	0.5007	g/100cc
3.	n-Propanol	Column 1:	50.82323	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.64596	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STANDARD BLANK
 Laboratory : Meridian
 Injection Date : Dec 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:	50.80370	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.55082	1.0000	g/100cc

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

Sequence table: C:\Chem32\1\Data\12-28-18_CAL\12-28-18_CAL 2018-12-28 09-41-10\12-28-18_CAL.S
 Data directory path: C:\Chem32\1\Data\12-28-18_CAL\12-28-18_CAL 2018-12-28 09-41-10\
 Logbook: C:\Chem32\1\Data\12-28-18_CAL\12-28-18_CAL 2018-12-28 09-41-10\12-28-18_CAL.LOG
 Sequence start: 12/28/2018 9:55:48 AM
 Sequence Operator: SYSTEM
 Operator: SYSTEM

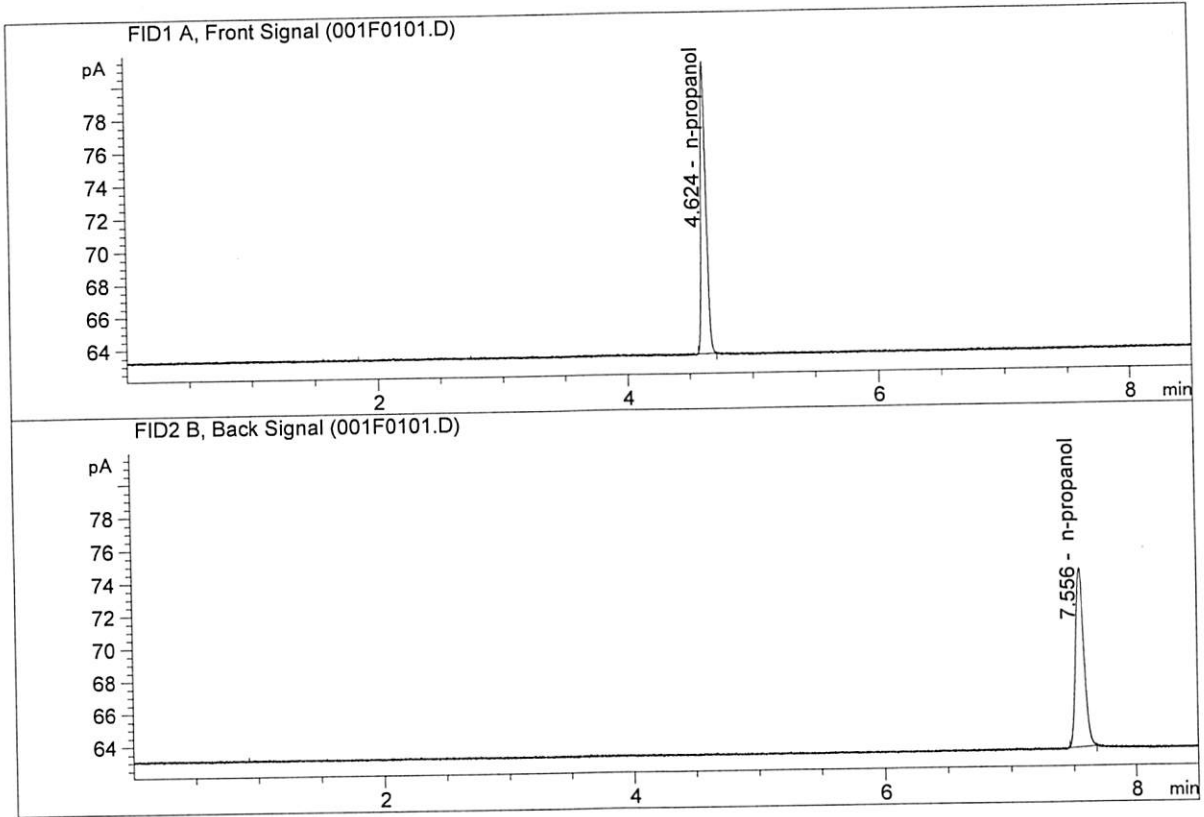
Method file name: C:\Chem32\1\Data\12-28-18_CAL\12-28-18_CAL 2018-12-28 09-41-10\ALCOHOL.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	# Cmp
1	1	1	0.050 FN04271601	-	1.0000	001F0101.D	*	4
2	2	1	0.100 FN08101601	-	1.0000	002F0201.D	*	4
3	3	1	0.200 FN03301601	-	1.0000	003F0301.D	*	4
4	4	1	0.300 FN06051501	-	1.0000	004F0401.D	*	4
5	5	1	0.500 FN08031602	-	1.0000	005F0501.D	*	4
6	6	1	INTERNAL STANDAR	-	1.0000	006F0601.D		2

06

ISP Forensic Services Blood Alcohol Report

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

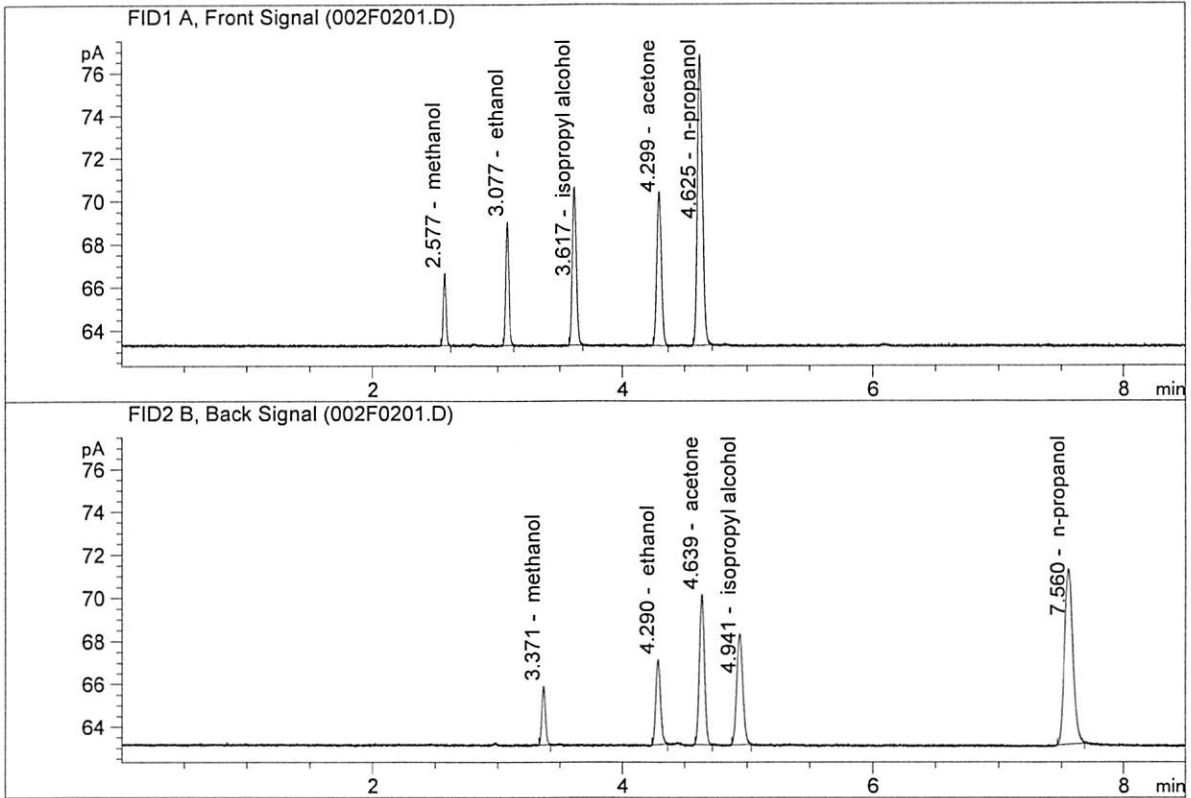


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	50.48597	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.33916	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN06041502
 Laboratory : Meridian
 Injection Date : Dec 28, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.28522	0.1474	g/100cc
2.	Ethanol	Column 2:	10.54080	0.1472	g/100cc
3.	n-Propanol	Column 1:	38.20336	1.0000	g/100cc
4.	n-Propanol	Column 2:	38.99865	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1

Analysis Date(s): 28 Dec 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0795	0.0803	0.0008	0.0799	0.0796	
(g/100cc)	0.0793	0.0795	0.0002	0.0794		

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
0.079	0.075	0.083	0.004

	Reported Result	
	0.079	

Calibration and control data are stored centrally.

Issued: 12/30/2016

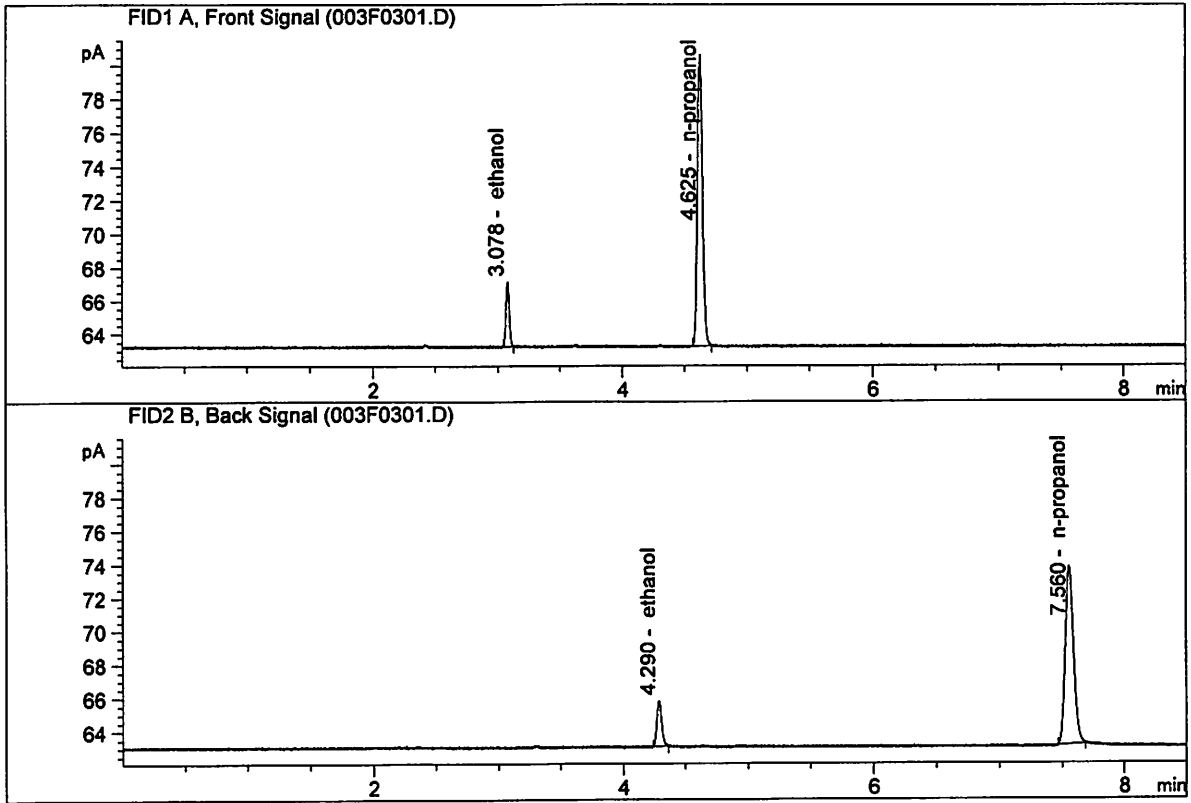
Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

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ISP Forensic Services Blood Alcohol Report

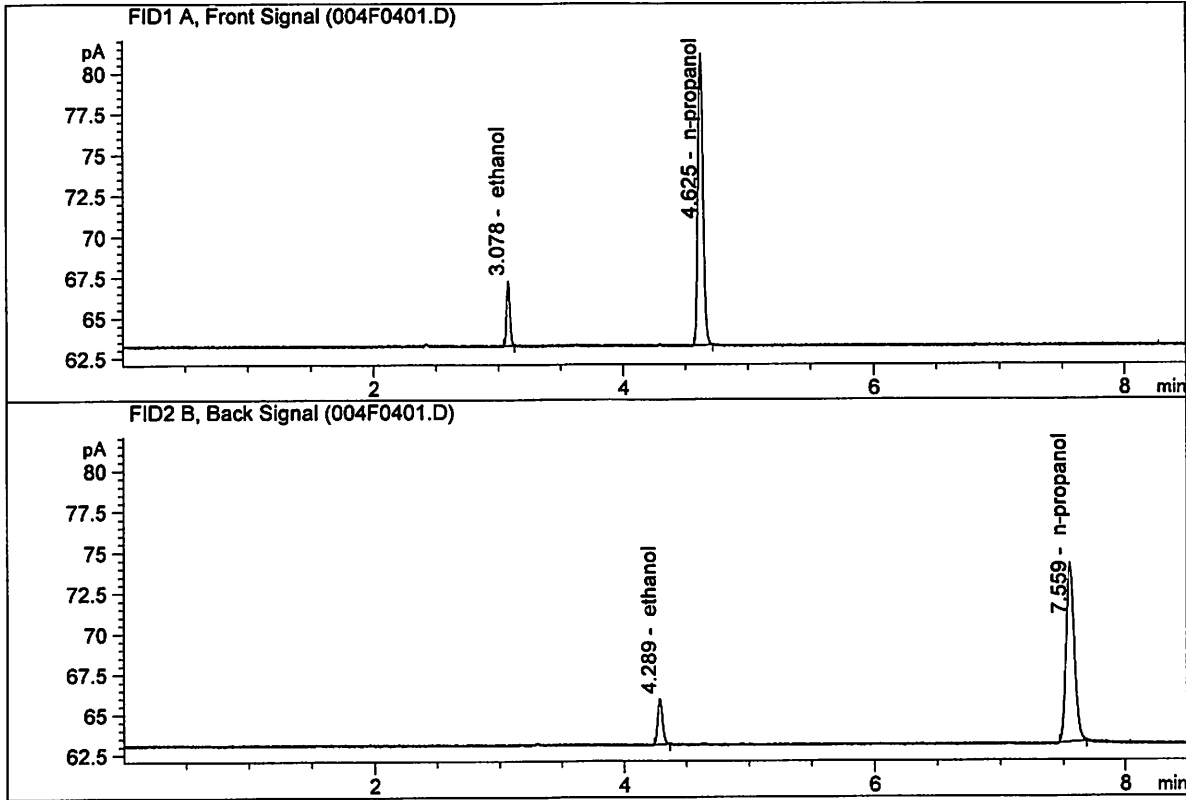
Sample Name : QC1-1-A
 Laboratory : Meridian
 Injection Date : Dec 28, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.15671	0.0795	g/100cc
2.	Ethanol	Column 2:	7.31890	0.0803	g/100cc
3.	n-Propanol	Column 1:	49.39552	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.77453	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

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



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.37223	0.0793	g/100cc
2.	Ethanol	Column 2:	7.49995	0.0795	g/100cc
3.	n-Propanol	Column 1:	51.02166	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.56435	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN04171701

Analysis Date(s): 28 Dec 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0793	0.0797	0.0004	0.0795	0.0795	
(g/100cc)	0.0793	0.0798	0.0005	0.0795		

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
0.079	0.075	0.083	0.004

	Reported Result	
	0.079	

Calibration and control data are stored centrally.

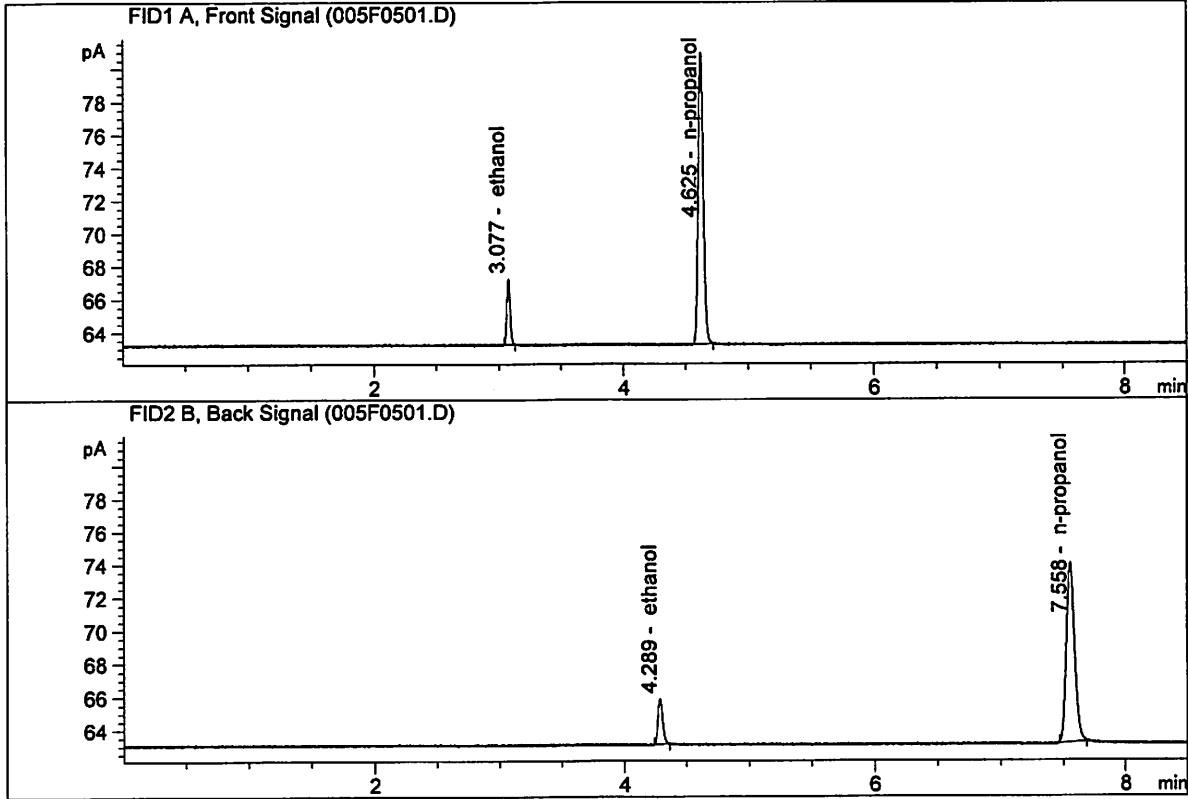
Issued: 12/30/2016

Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-A
 Laboratory : Meridian
 Injection Date : Dec 28, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

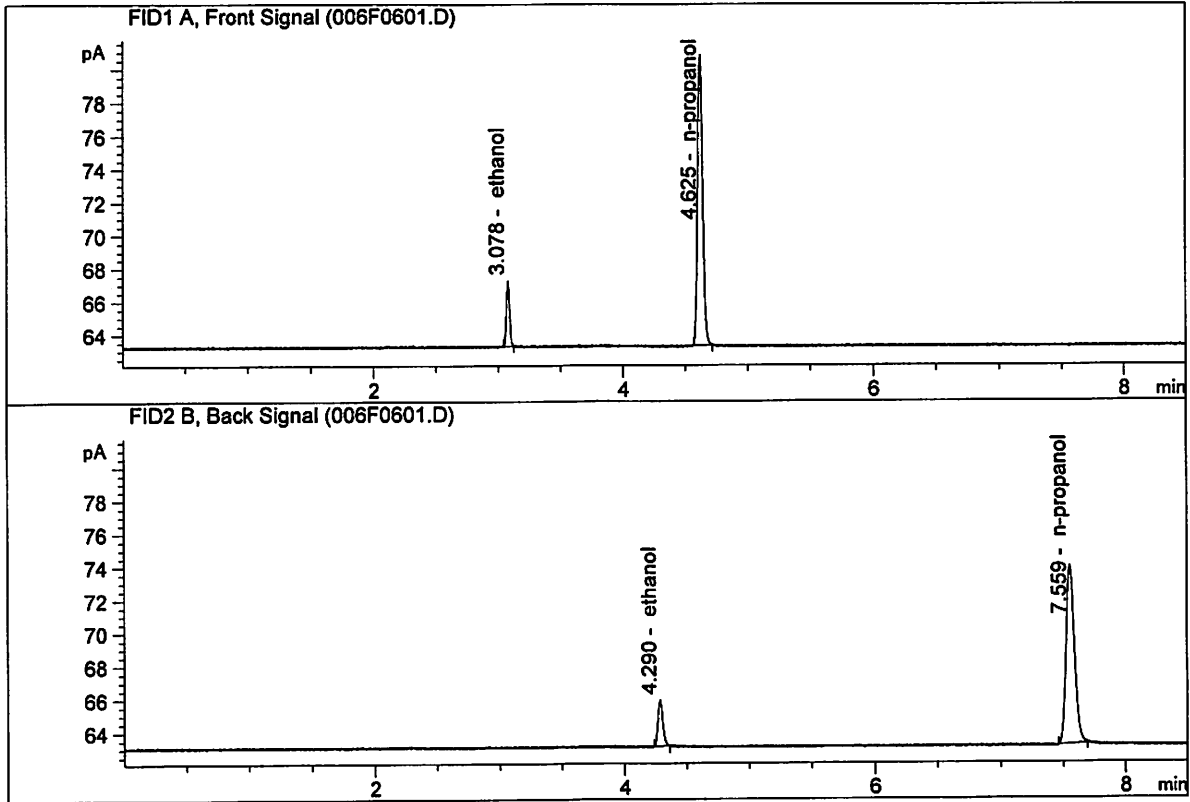


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.27597	0.0793	g/100cc
2.	Ethanol	Column 2:	7.40962	0.0797	g/100cc
3.	n-Propanol	Column 1:	50.33797	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.76721	1.0000	g/100cc

dg

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-B
 Laboratory : Meridian
 Injection Date : Dec 28, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.23603	0.0793	g/100cc
2.	Ethanol	Column 2:	7.39603	0.0798	g/100cc
3.	n-Propanol	Column 1:	50.04578	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.65071	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1

Analysis Date(s): 28 Dec 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.2016	0.2012	0.0004	0.2014	0.2008
(g/100cc)	0.2003	0.2002	0.0001	0.2002	

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

	<p>Reported Result</p> <p style="font-size: 1.2em;">0.200</p>	
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Calibration and control data are stored centrally.

Issued: 12/30/2016

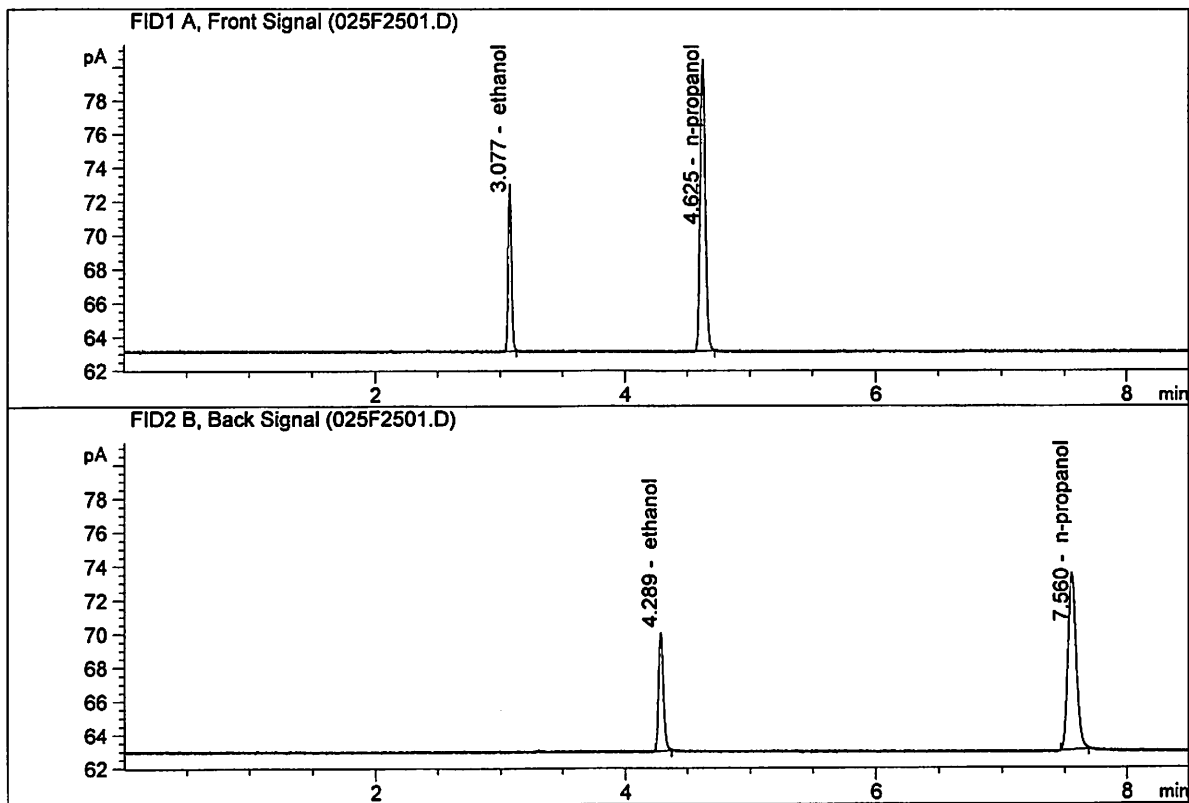
Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

06

ISP Forensic Services Blood Alcohol Report

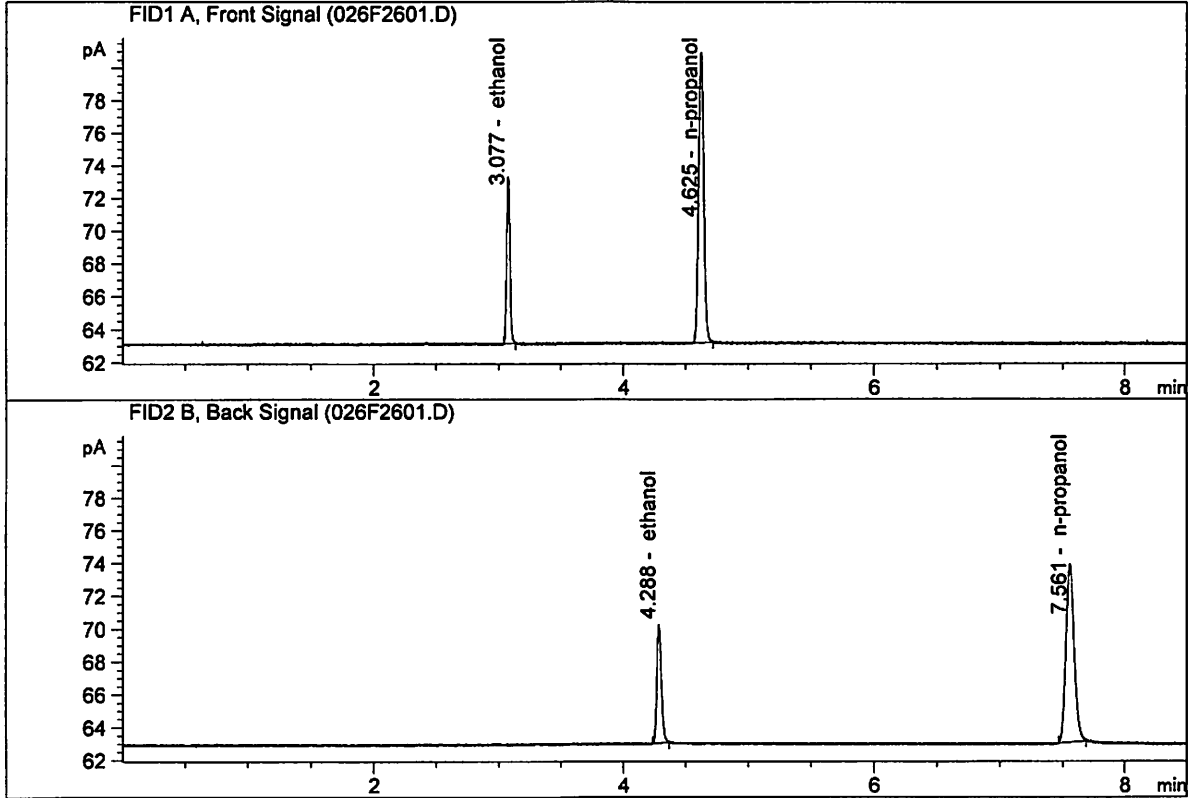
Sample Name : QC2-1-A
 Laboratory : Meridian
 Injection Date : Dec 28, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.08118	0.2016	g/100cc
2.	Ethanol	Column 2:	18.76851	0.2012	g/100cc
3.	n-Propanol	Column 1:	49.05856	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.46082	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
 Laboratory : Meridian
 Injection Date : Dec 28, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.45084	0.2003	g/100cc
2.	Ethanol	Column 2:	19.12957	0.2002	g/100cc
3.	n-Propanol	Column 1:	50.38934	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.70608	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2

Analysis Date(s): 28 Dec 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0847	0.0850	0.0003	0.0848	0.0845	
(g/100cc)	0.0843	0.0842	0.0001	0.0842		

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
0.084	0.079	0.089	0.005

Reported Result	
0.084	

Calibration and control data are stored centrally.

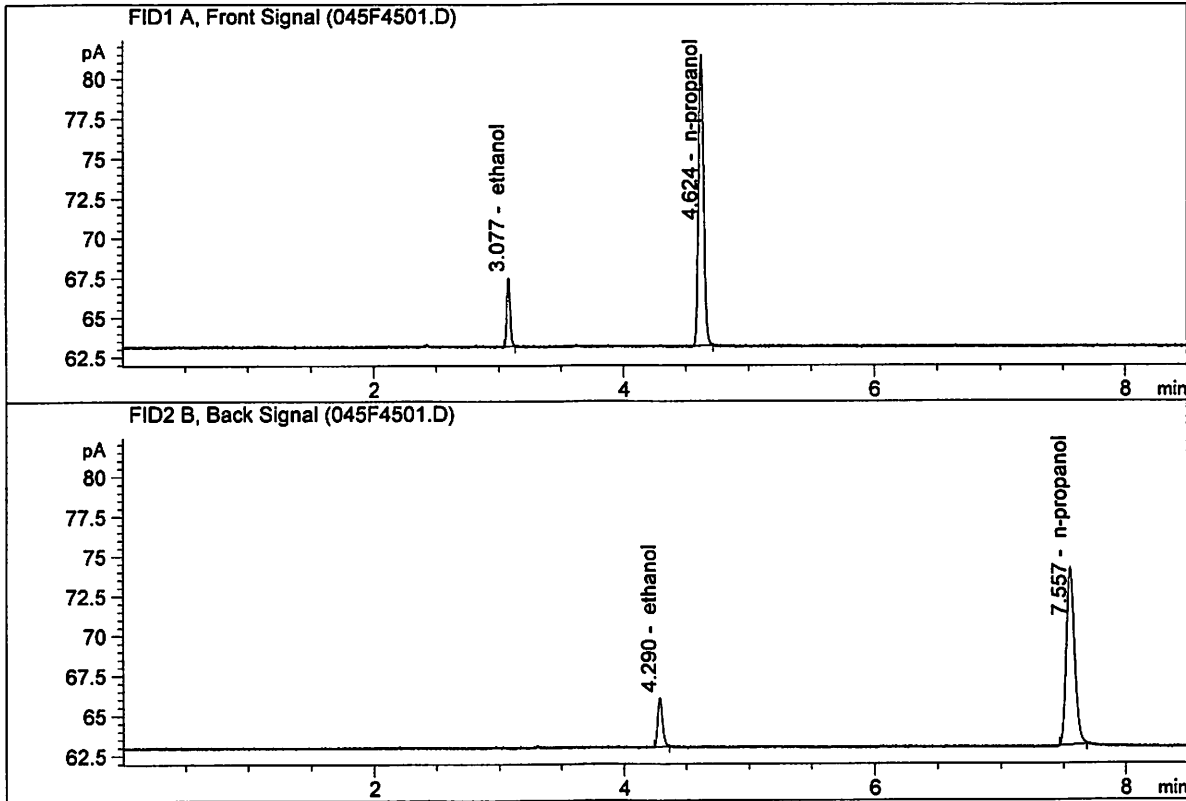
Issued: 12/30/2016

Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

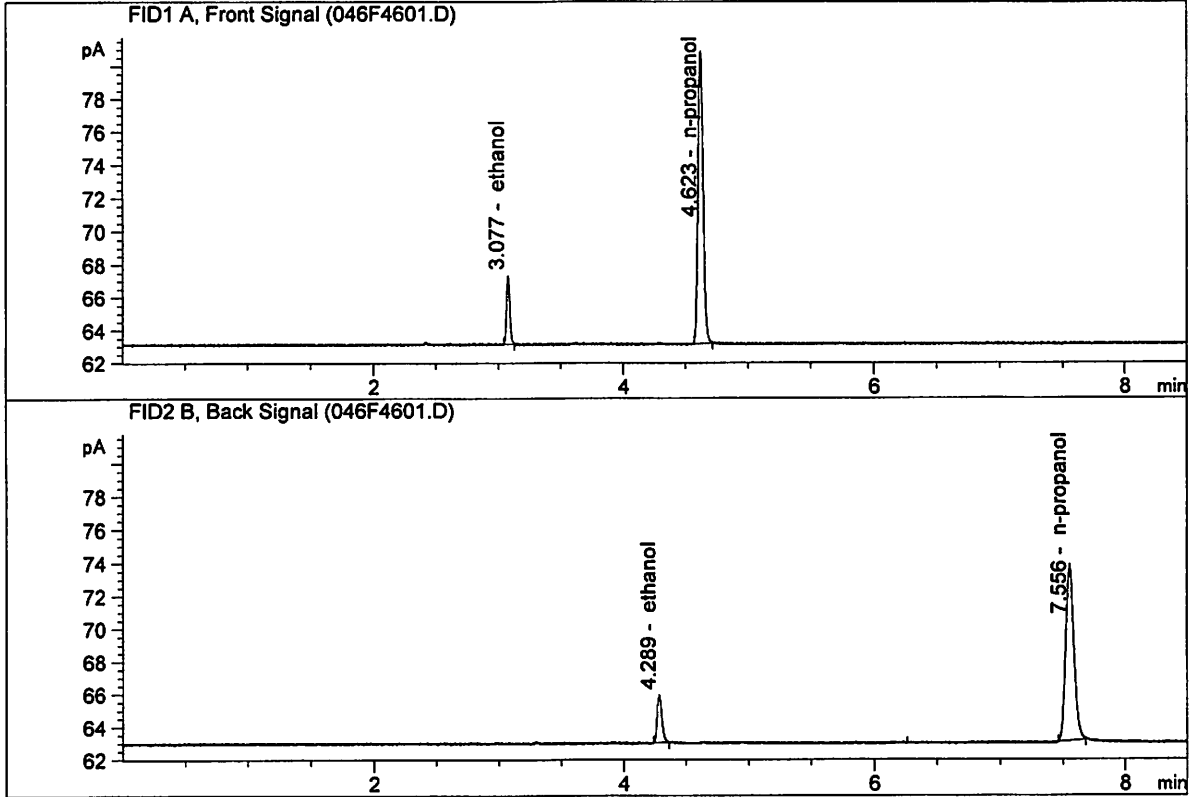
Sample Name : QC1-2-A
 Laboratory : Meridian
 Injection Date : Dec 28, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.98806	0.0847	g/100cc
2.	Ethanol	Column 2:	8.12115	0.0850	g/100cc
3.	n-Propanol	Column 1:	51.72089	1.0000	g/100cc
4.	n-Propanol	Column 2:	53.08485	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

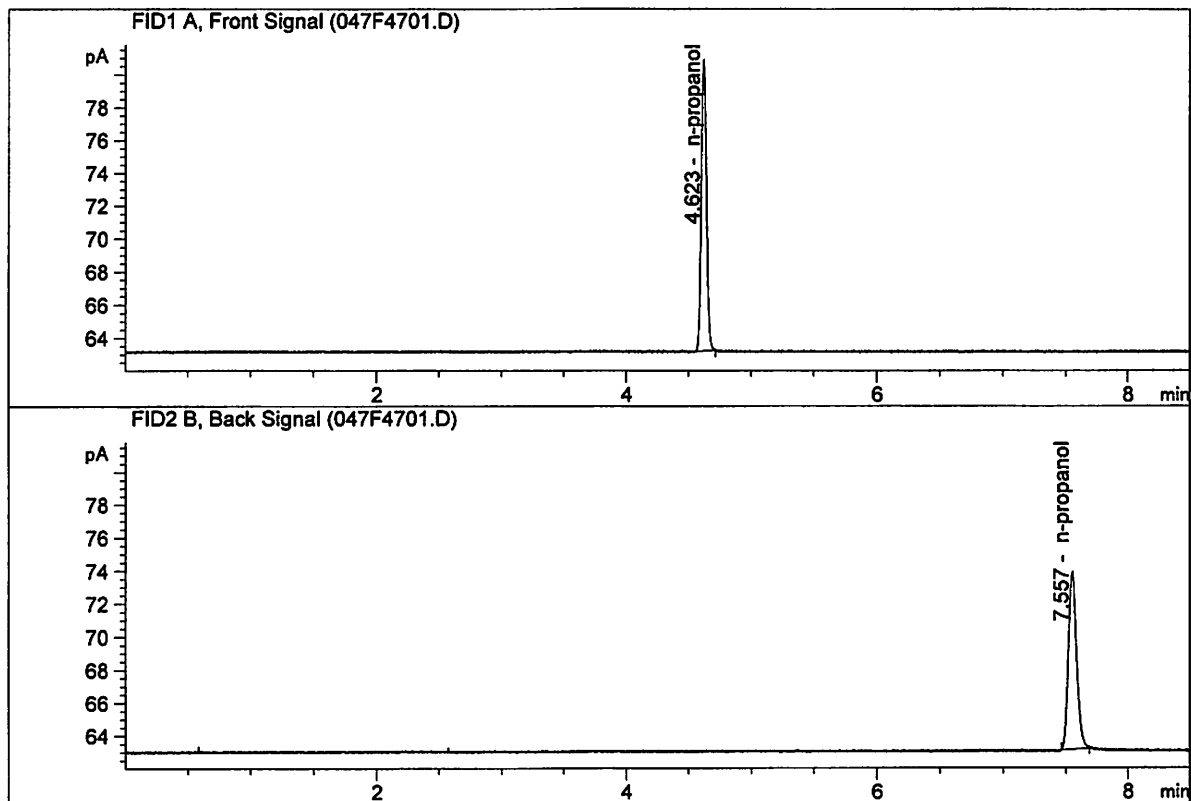
Sample Name : QC1-2-B
 Laboratory : Meridian
 Injection Date : Dec 28, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.70570	0.0843	g/100cc
2.	Ethanol	Column 2:	7.79437	0.0842	g/100cc
3.	n-Propanol	Column 1:	50.17385	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.44905	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
 Laboratory : Meridian
 Injection Date : Dec 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:	50.21143	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.61187	1.0000	g/100cc

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

Sequence table: C:\Chem32\1\Data\12-28-18_SAMPLES\12-28-18_SAMPLES 2018-12-28 11-18-09\12-28-18_SAMPLES.S
 Data directory path: C:\Chem32\1\Data\12-28-18_SAMPLES\12-28-18_SAMPLES 2018-12-28 11-18-09\
 Logbook: C:\Chem32\1\Data\12-28-18_SAMPLES\12-28-18_SAMPLES 2018-12-28 11-18-09\12-28-18_SAMPLES.LOG
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 Sequence Operator: SYSTEM
 Operator: SYSTEM
 Method file name: C:\Chem32\1\Data\12-28-18_SAMPLES\12-28-18_SAMPLES 2018-12-28 11-18-09\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 FN04171701-	-	1.0000	005F0501.D		4
6	6	1	0.08 FN04171701-	-	1.0000	006F0601.D		4
7	7	1	M2018-5719-2-A	-	1.0000	007F0701.D		2
8	8	1	M2018-5719-2-B	-	1.0000	008F0801.D		2
9	9	1	M2018-6088-3-A	-	1.0000	009F0901.D		6
10	10	1	M2018-6088-3-B	-	1.0000	010F1001.D		6
11	11	1	M2018-6184-1-A	-	1.0000	011F1101.D		4
12	12	1	M2018-6184-1-B	-	1.0000	012F1201.D		4
13	13	1	M2018-6185-1-A	-	1.0000	013F1301.D		2
14	14	1	M2018-6185-1-B	-	1.0000	014F1401.D		2
15	15	1	M2018-6201-2-A	-	1.0000	015F1501.D		4
16	16	1	M2018-6201-2-B	-	1.0000	016F1601.D		4
17	17	1	M2018-6222-2-A	-	1.0000	017F1701.D		2
18	18	1	M2018-6222-2-B	-	1.0000	018F1801.D		2
19	19	1	M2018-6229-1-A	-	1.0000	019F1901.D		4
20	20	1	M2018-6229-1-B	-	1.0000	020F2001.D		4
21	21	1	M2018-6230-1-A	-	1.0000	021F2101.D		2
22	22	1	M2018-6230-1-B	-	1.0000	022F2201.D		2
23	23	1	M2018-6231-1-A	-	1.0000	023F2301.D		4
24	24	1	M2018-6231-1-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	M2018-6263-2-A	-	1.0000	027F2701.D		4
28	28	1	M2018-6263-2-B	-	1.0000	028F2801.D		4
29	29	1	M2018-6264-1-A	-	1.0000	029F2901.D		4
30	30	1	M2018-6264-1-B	-	1.0000	030F3001.D		4
31	31	1	M2018-6270-1-A	-	1.0000	031F3101.D		4
32	32	1	M2018-6270-1-B	-	1.0000	032F3201.D		4
33	33	1	M2018-6273-1-A	-	1.0000	033F3301.D		2
34	34	1	M2018-6273-1-B	-	1.0000	034F3401.D		2
35	35	1	M2018-6277-1-A	-	1.0000	035F3501.D		4
36	36	1	M2018-6277-1-B	-	1.0000	036F3601.D		4
37	37	1	M2018-6281-1-A	-	1.0000	037F3701.D		2
38	38	1	M2018-6281-1-B	-	1.0000	038F3801.D		2
39	39	1	M2018-6282-1-A	-	1.0000	039F3901.D		4
40	40	1	M2018-6282-1-B	-	1.0000	040F4001.D		4
41	41	1	P2018-3497-1-A	-	1.0000	041F4101.D		6
42	42	1	P2018-3497-1-B	-	1.0000	042F4201.D		6
43	43	1	P2018-3523-1-A JG	-	1.0000	043F4301.D		4

JG

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	#
44	44	1	P2018-3523- 1-B <i>JG</i>	-	1.0000	044F4401.D		4
45	45	1	QC1-2-A <i>-2-B</i>	-	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\12-28-18_SAMPLES\12-28-18_SAMPLES 2018-12-28 11-18-09 \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

JG