8/29/2019

Worklist: 3639

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
P2019-2535	1	160590	Alcohol Analysis
P2019-2541	1	160601	Alcohol Analysis
P2019-2545	1	160609	Alcohol Analysis
P2019-2547	1	160658	Alcohol Analysis
P2019-2556	1	160904	Alcohol Analysis
P2019-2558	1	160911	Alcohol Analysis
P2019-2559	1	160912	Alcohol Analysis
P2019-2560	1	160913	Alcohol Analysis
P2019-2615	1	161344	Alcohol Analysis
P2019-2616	1	161345	Alcohol Analysis
P2019-2626	1	161568	Alcohol Analysis
P2019-2628	1	161588	Alcohol Analysis
P2019-2634	1	161598	Alcohol Analysis
P2019-2635	1	161602	Alcohol Analysis
P2019-2644	1	161734	Alcohol Analysis
P2019-2649	1	161745	Alcohol Analysis

sample A didn't inject (RC) 8/29/19

Re-ran due to sample A not injecting. --src

REVIEWED

By Melissa (Nikka) Bradley at 1:32 pm, Aug 30, 2019

NB

RC

Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number: MD96JF1032

Volatiles Quality Assurance Controls **Run Date(s): 08/28/19**

Calibration Curve Run Date: ~~08/15/19~~ RC 08/28/19

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jan-22	1801036	0.0812	0.0731-0.0893	0.0748 g/100cc
					0.0764 g/100cc
					g/100cc
Level 2	Mar-22	1803028	0.2035	0.1832-0.2238	0.1951 g/100cc
					g/100cc
					g/100cc
Multi-Component mixture: Cerilliant			**Lot #**	FN07101701	
Curve Fit:		**Column 1**	0.99998	**Column2**	0.99991

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0519	0.0500	0.0019	0.0509
100	0.100	0.090 - 0.110	0.0975	0.0958	0.0017	0.0966
200	0.200	0.180 - 0.220	0.1978	0.1949	0.0029	0.1963
300	0.300	0.270 - 0.330	0.2993	0.2970	0.0023	0.2981
500	0.500	0.450 - 0.550	0.5016	0.5047	0.0031	0.5031

Aqueous Controls

Control level	Target Value	Acceptable Range	Overall Results
80	0.080	0.076 - 0.084	0.076 g/100cc

RC

Revision: 1
Issue Date: 01/03/2019
Issuing Authority: Quality Manager

Calibration Table

General Calibration Setting

Calib. Data Modified : Wednesday, August 28, 2019 1:28:54 PM
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 : No recalibration if peaks missing

Curve Type : Linear
Origin : Forced
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

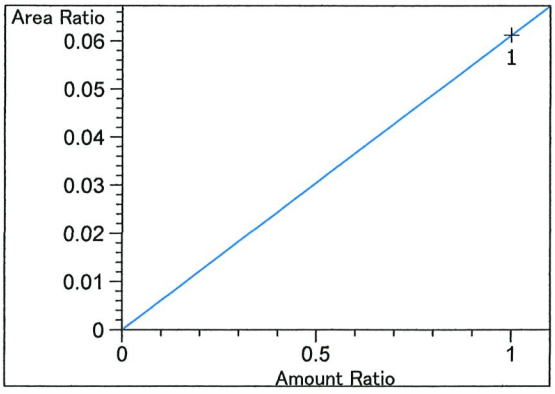
Method C:\CHEM32\1\METHODS\ALCOHOL.M

RT	Sig	Lvl	Amount [g/100cc]	Area	Rsp.Factor	Ref	ISTD	#	Compound
2.311	2	1	1.00000	6.45200	1.54991e-1	No	No	2	Fluorinated ethane
2.365	1	1	1.00000	1.84105	5.43168e-1	No	No	1	Fluorinated ethane
2.685	1	1	1.00000	3.69669	2.70512e-1	No	No	1	Methanol
2.950	2	1	1.00000	11.54700	8.66026e-2	No	No	2	Acetaldehyde
2.975	1	1	1.00000	10.52400	9.50209e-2	No	No	1	Acetaldehyde
3.321	1	1	5.00000e-2	11.60863	4.30714e-3	No	No	1	Ethanol
		2	1.00000e-1	23.31560	4.28897e-3				
		3	2.00000e-1	48.17861	4.15122e-3				
		4	3.00000e-1	71.83037	4.17651e-3				
		5	5.00000e-1	122.89955	4.06836e-3				
3.372	2	1	1.00000	4.26062	2.34707e-1	No	No	2	Methanol
3.993	1	1	1.00000	9.73055	1.02769e-1	No	No	1	Isopropyl alcohol
4.317	2	1	5.00000e-2	10.42822	4.79468e-3	No	No	2	Ethanol
		2	1.00000e-1	21.64433	4.62015e-3				
		3	2.00000e-1	44.89563	4.45478e-3				
		4	3.00000e-1	67.15221	4.46746e-3				
		5	5.00000e-1	116.08132	4.30733e-3				
4.704	2	1	1.00000	6.89301	1.45075e-1	No	No	2	Acetone
4.853	1	1	1.00000	6.49940	1.53860e-1	No	No	1	Acetone
5.050	2	1	1.00000	10.70642	9.34019e-2	No	No	2	Isopropyl alcohol
5.265	1	1	1.00000	112.16923	8.91510e-3	No	Yes	1	n-Propanol
		2	1.00000	120.02157	8.33184e-3				
		3	1.00000	122.25484	8.17964e-3				
		4	1.00000	120.45976	8.30153e-3				
		5	1.00000	122.98767	8.13090e-3				
		6	1.00000	111.45872	8.97193e-3				
7.743	2	1	1.00000	105.40093	9.48758e-3	No	Yes	2	n-Propanol
		2	1.00000	114.24744	8.75293e-3				
		3	1.00000	116.52195	8.58207e-3				
		4	1.00000	114.37266	8.74335e-3				
		5	1.00000	116.34871	8.59485e-3				
		6	1.00000	113.50471	8.81021e-3				
11.631	2	1	1.00000	864.84247	1.15628e-3	No	No	2	Toluene
12.229	1	1	1.00000	918.48389	1.08875e-3	No	No	1	Toluene

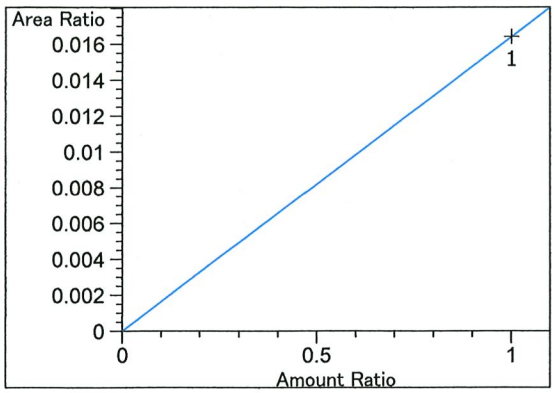
Peak Sum Table

No Entries in table

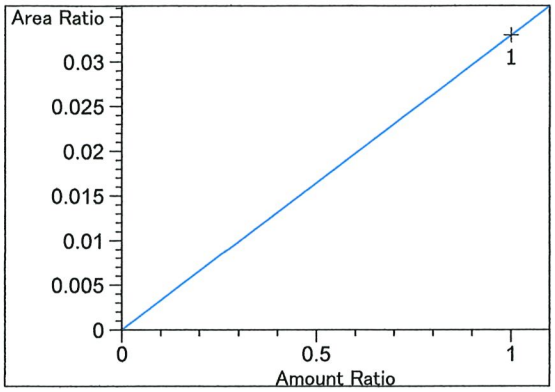
Calibration Curves



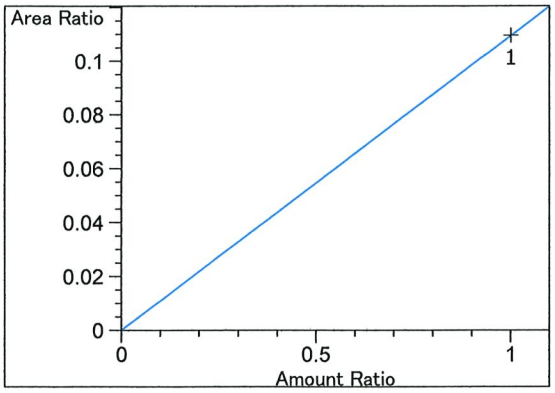
Fluorinated ethane at exp. RT: 2.311
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 6.12139e-2
x: Amount Ratio
y: Area Ratio



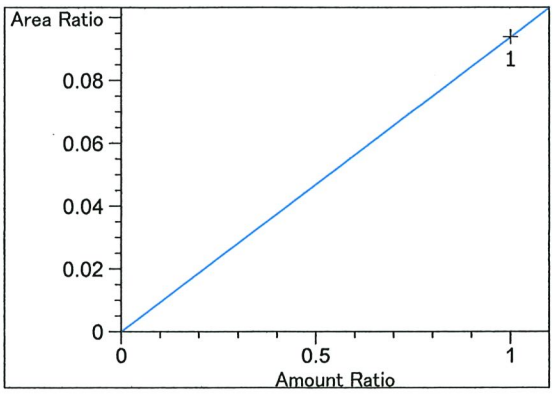
Fluorinated ethane at exp. RT: 2.365
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.64132e-2
x: Amount Ratio
y: Area Ratio



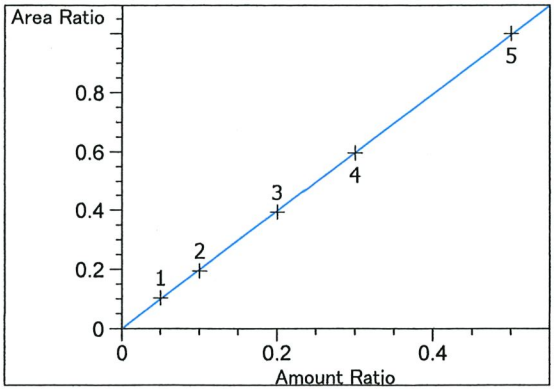
Methanol at exp. RT: 2.685
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 3.29564e-2
x: Amount Ratio
y: Area Ratio



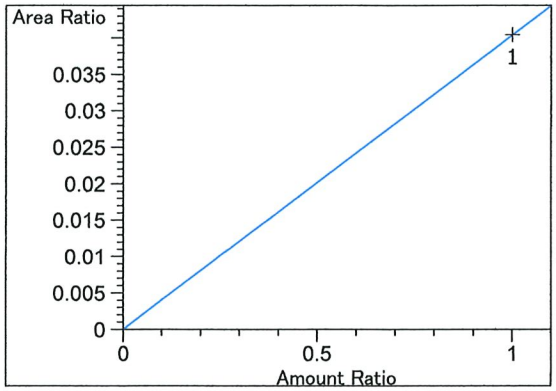
Acetaldehyde at exp. RT: 2.950
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.09553e-1
x: Amount Ratio
y: Area Ratio



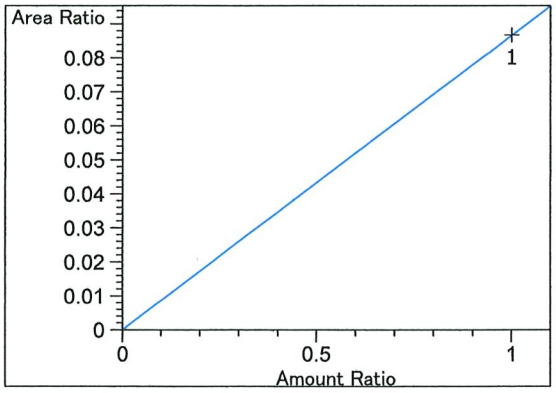
Acetaldehyde at exp. RT: 2.975
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 9.38225e-2
x: Amount Ratio
y: Area Ratio



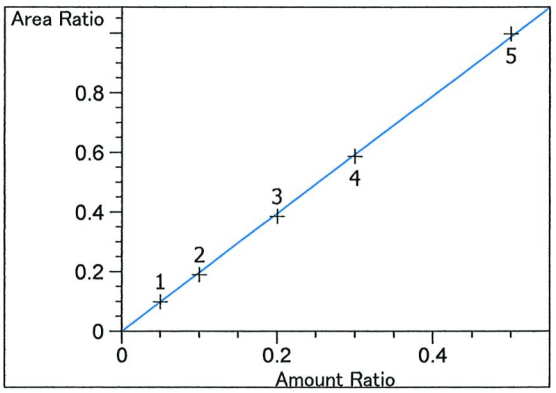
Ethanol at exp. RT: 3.321
FID1 A, Front Signal
Correlation: 0.99998
Residual Std. Dev.: 0.00420
Formula: y = mx
m: 1.99223
x: Amount Ratio
y: Area Ratio



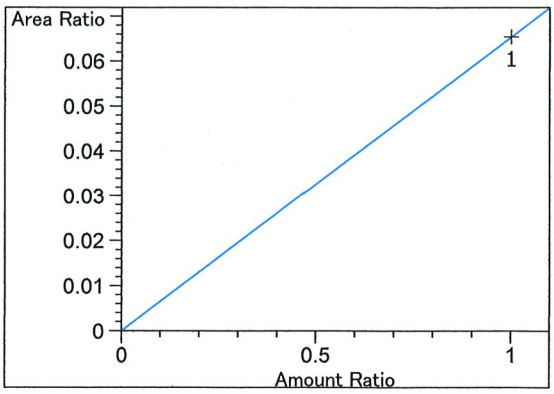
Methanol at exp. RT: 3.372
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 4.04230e-2
x: Amount Ratio
y: Area Ratio



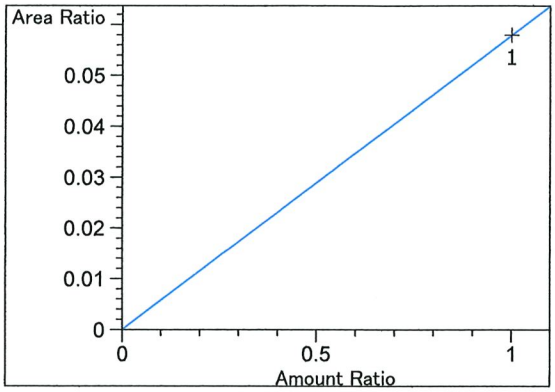
Isopropyl alcohol at exp. RT: 3.993
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 8.67489e-2
x: Amount Ratio
y: Area Ratio



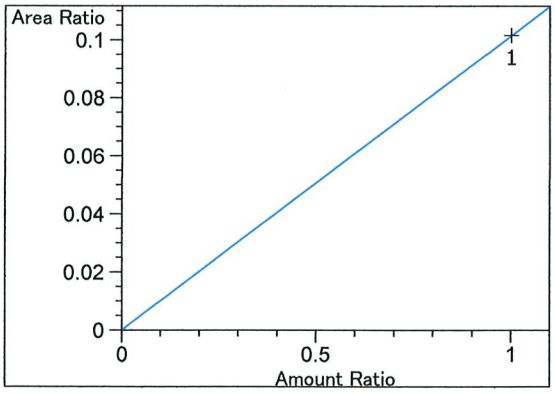
Ethanol at exp. RT: 4.317
FID2 B, Back Signal
Correlation: 0.99991
Residual Std. Dev.: 0.00852
Formula: y = mx
m: 1.97692
x: Amount Ratio
y: Area Ratio



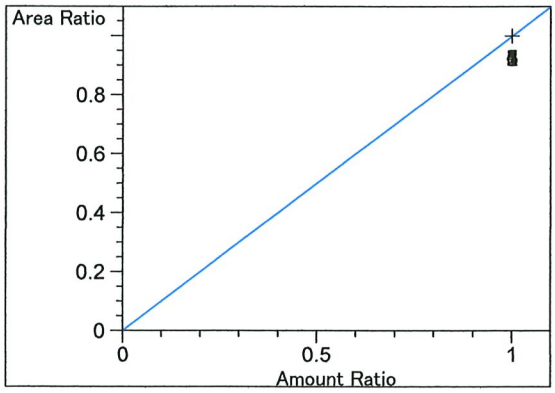
Acetone at exp. RT: 4.704
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 6.53980e-2
x: Amount Ratio
y: Area Ratio



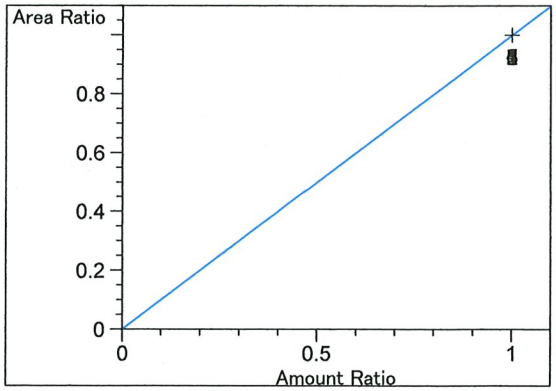
Acetone at exp. RT: 4.853
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 5.79428e-2
x: Amount Ratio
y: Area Ratio



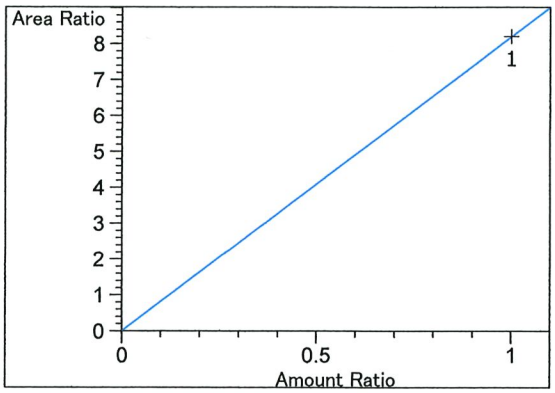
Isopropyl alcohol at exp. RT: 5.050
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.01578e-1
x: Amount Ratio
y: Area Ratio



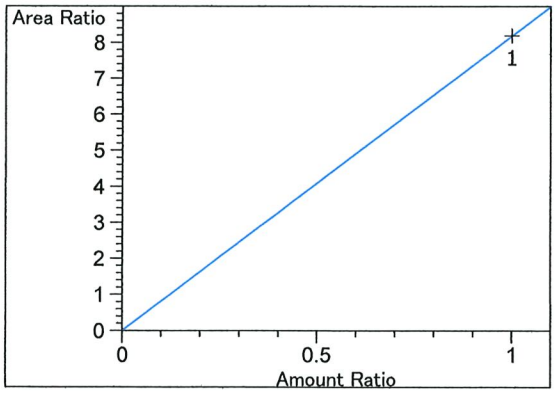
n-Propanol at exp. RT: 5.265
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.00000
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 7.743
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.00000
x: Amount Ratio
y: Area Ratio



Toluene at exp. RT: 11.631
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 8.20526
x: Amount Ratio
y: Area Ratio

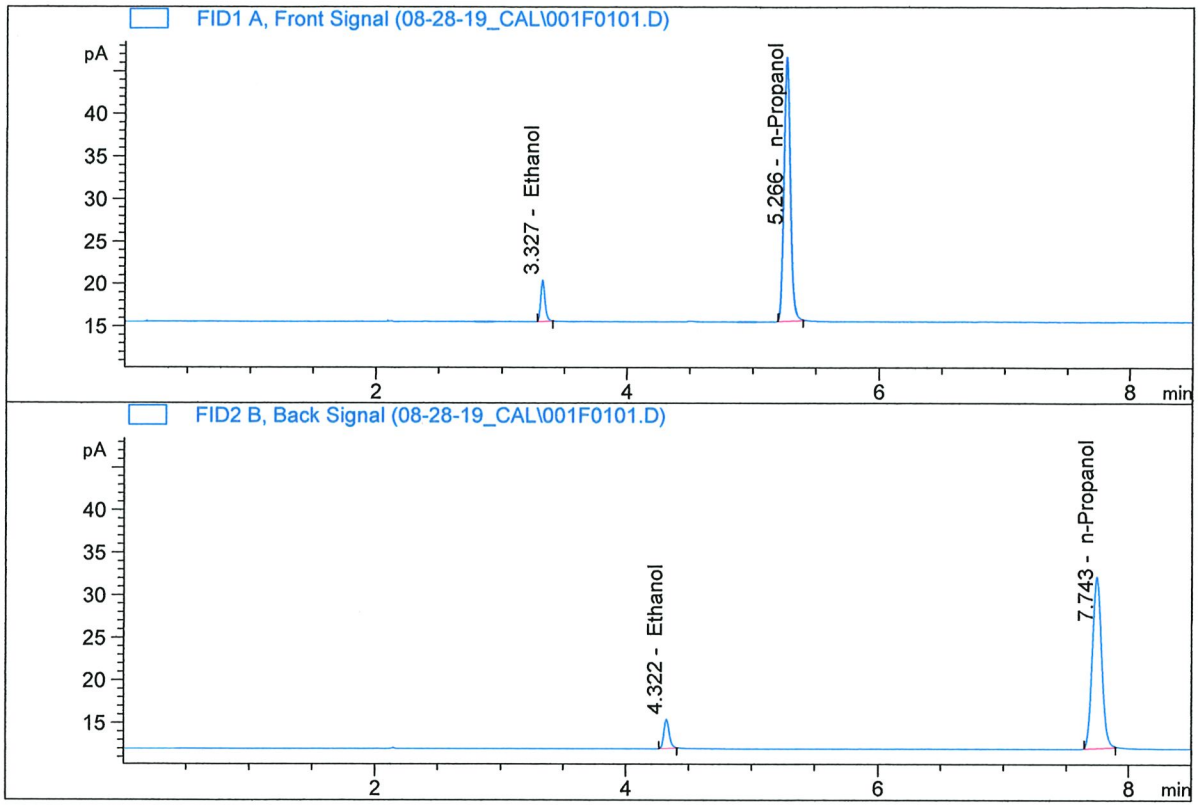


Toluene at exp. RT: 12.229
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 8.18838
x: Amount Ratio
y: Area Ratio

==========

ISP Forensic Services Blood Alcohol Report

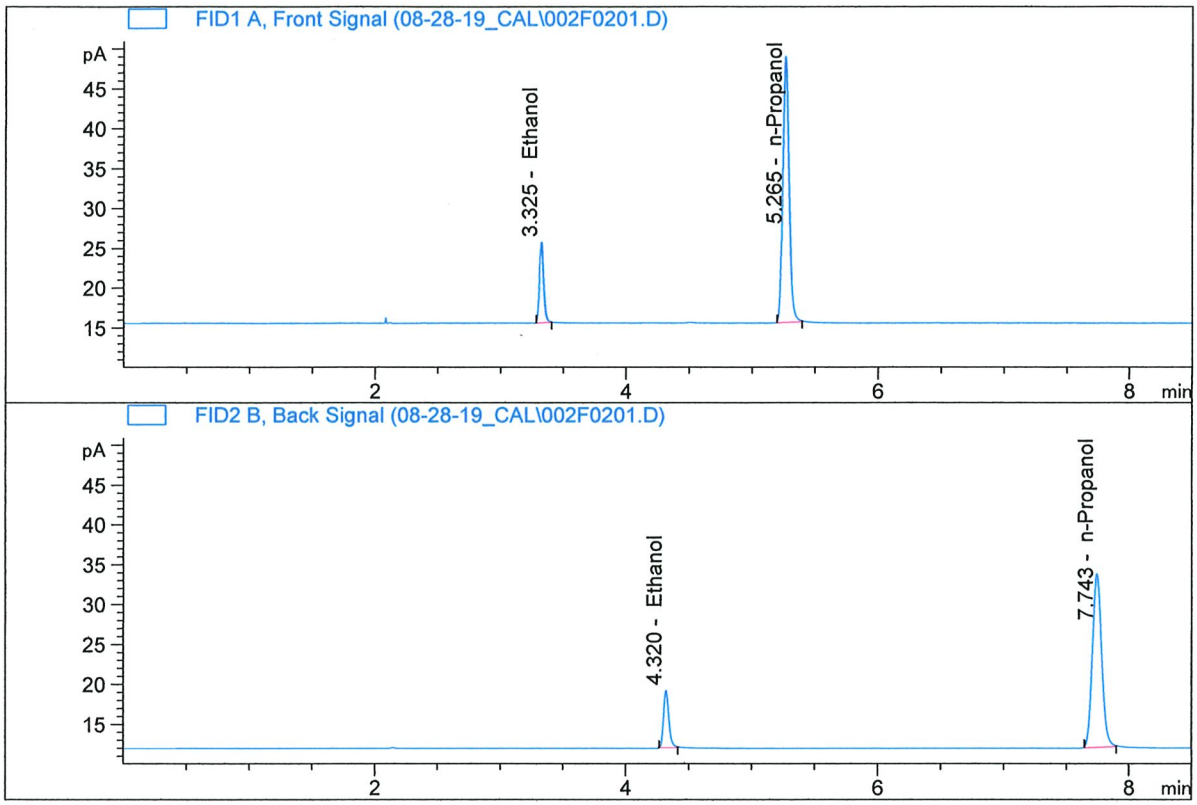
Sample Name : 0.050
Laboratory : Pocatello
Injection Date : Aug 28, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	11.60863	0.0519	g/100cc
2.	Ethanol	Column 2:	10.42822	0.0500	g/100cc
3.	n-Propanol	Column 1:	112.16923	1.0000	g/100cc
4.	n-Propanol	Column 2:	105.40093	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

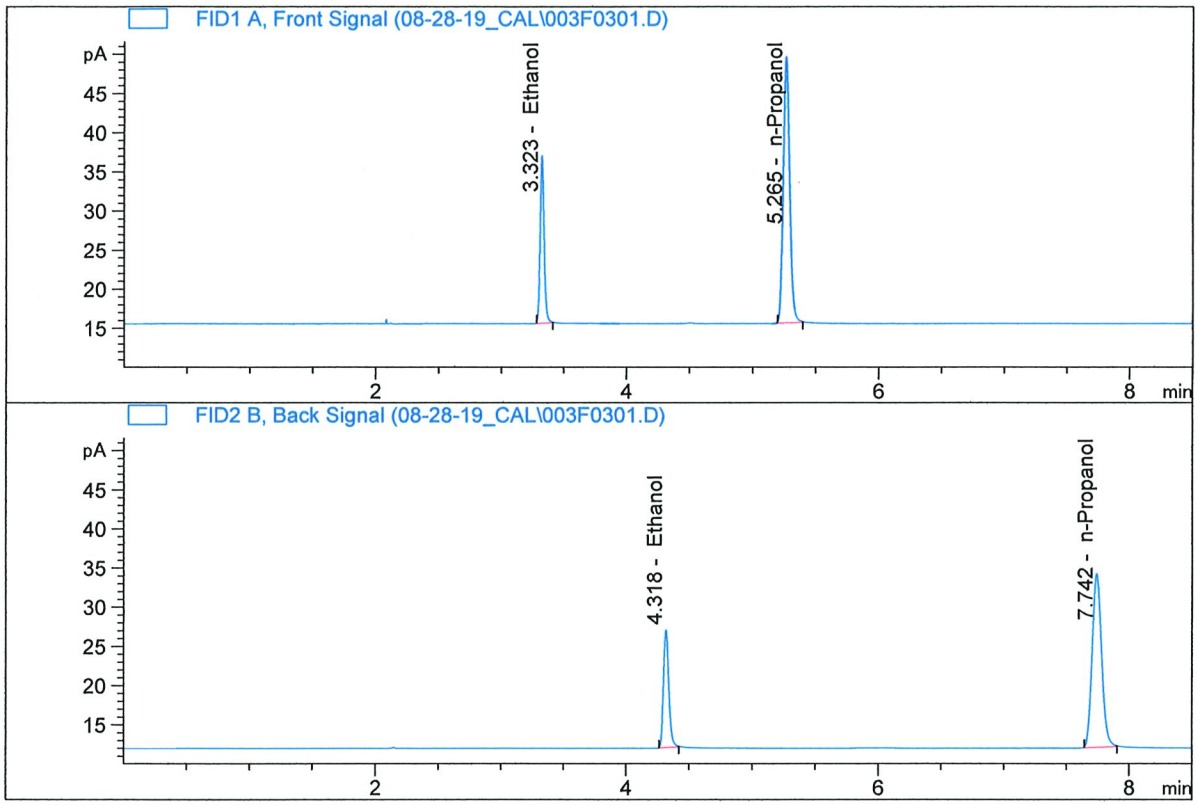
Sample Name : 0.100
Laboratory : Pocatello
Injection Date : Aug 28, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	23.31560	0.0975	g/100cc
2.	Ethanol	Column 2:	21.64433	0.0958	g/100cc
3.	n-Propanol	Column 1:	120.02157	1.0000	g/100cc
4.	n-Propanol	Column 2:	114.24744	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

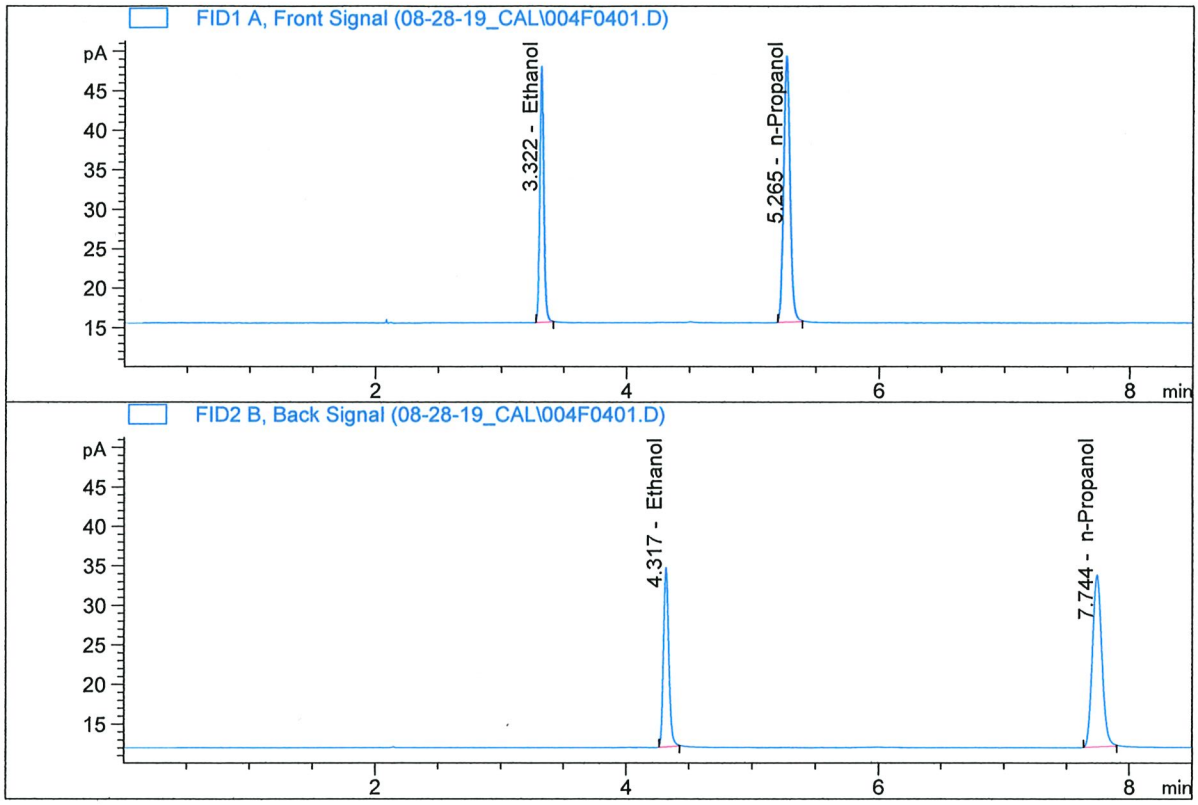
Sample Name : 0.200
Laboratory : Pocatello
Injection Date : Aug 28, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	48.17861	0.1978	g/100cc
2.	Ethanol	Column 2:	44.89563	0.1949	g/100cc
3.	n-Propanol	Column 1:	122.25484	1.0000	g/100cc
4.	n-Propanol	Column 2:	116.52195	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

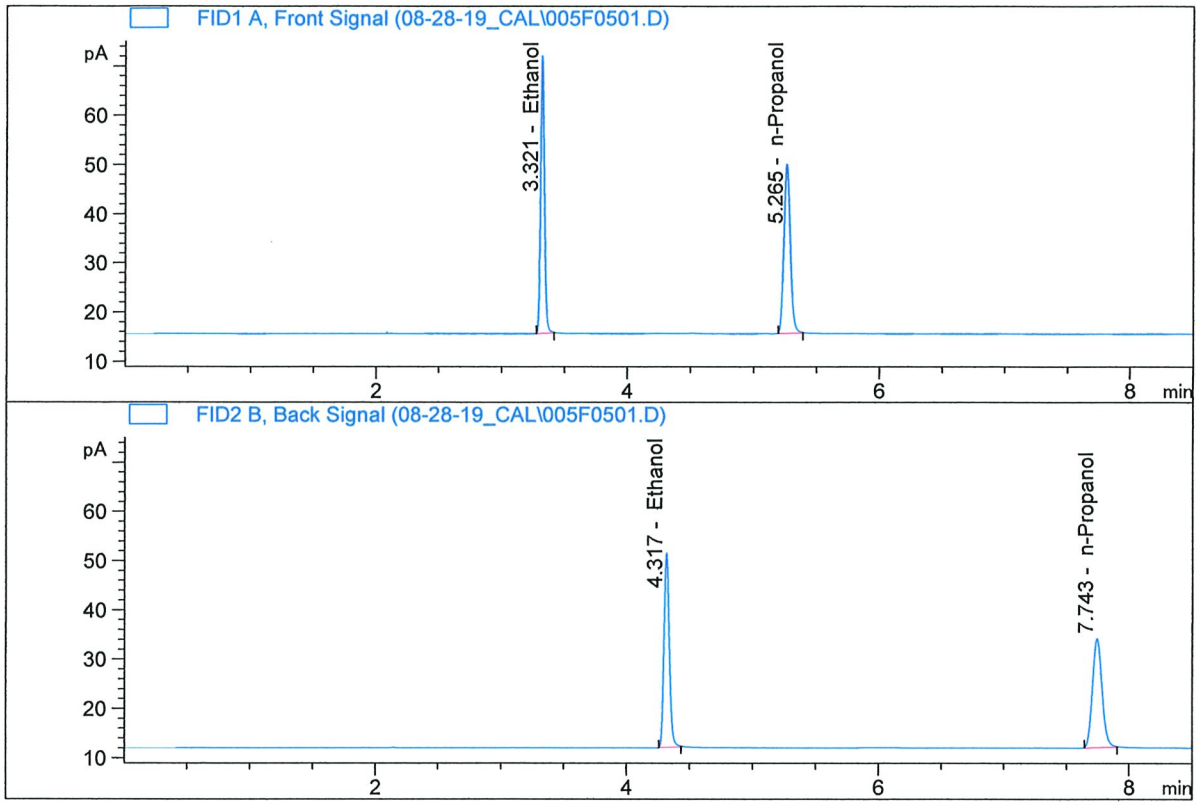
Sample Name : 0.300
Laboratory : Pocatello
Injection Date : Aug 28, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	71.83037	0.2993	g/100cc
2.	Ethanol	Column 2:	67.15221	0.2970	g/100cc
3.	n-Propanol	Column 1:	120.45976	1.0000	g/100cc
4.	n-Propanol	Column 2:	114.37266	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

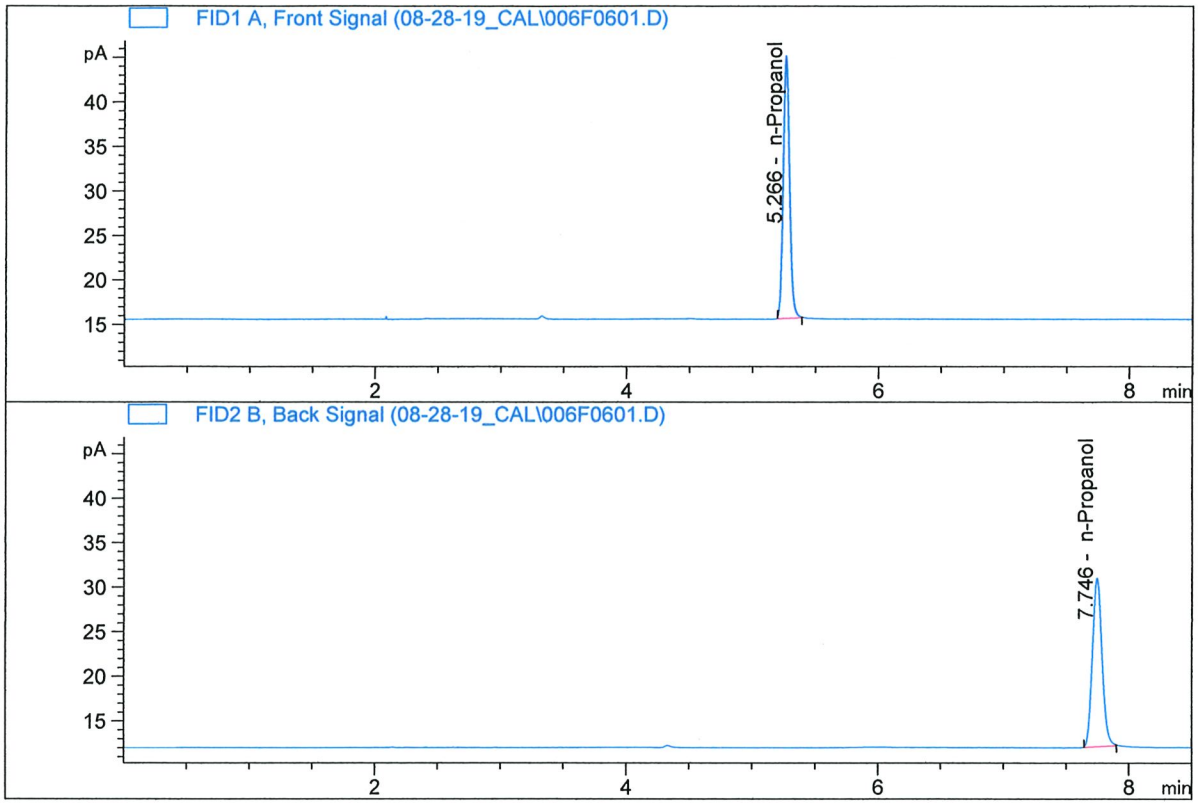
Sample Name : 0.500
Laboratory : Pocatello
Injection Date : Aug 28, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	122.89955	0.5016	g/100cc
2.	Ethanol	Column 2:	116.08132	0.5047	g/100cc
3.	n-Propanol	Column 1:	122.98767	1.0000	g/100cc
4.	n-Propanol	Column 2:	116.34871	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK-1
Laboratory : Pocatello
Injection Date : Aug 28, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	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:	105.00610	1.0000	g/100cc
4.	n-Propanol	Column 2:	99.79551	1.0000	g/100cc

Sequence File C:\Chem32\1\TEMP\AESEQ\QS_28.08.2019_11.45.53\MASTERCAL.S

Sample Summary

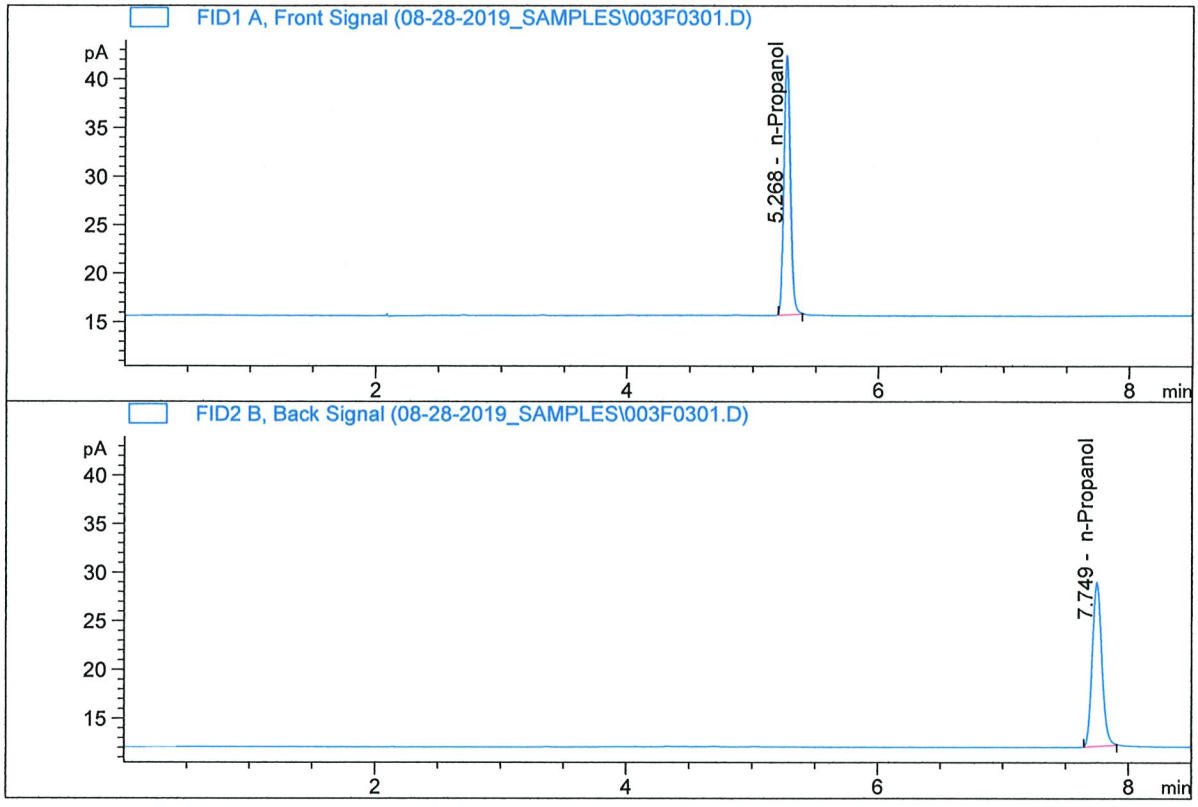
Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_28.08.2019_11.45.53\MASTERCAL.S
Data directory path: C:\Chem32\1\Data\08-28-19_CAL
Logbook: C:\Chem32\1\Data\08-28-19_CAL\MASTERCAL.LOG
Sequence start: 8/28/2019 11:59:48 AM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\CHEM32\1\METHODS\ALCOHOL.M

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

ISP Forensic Services Blood Alcohol Report

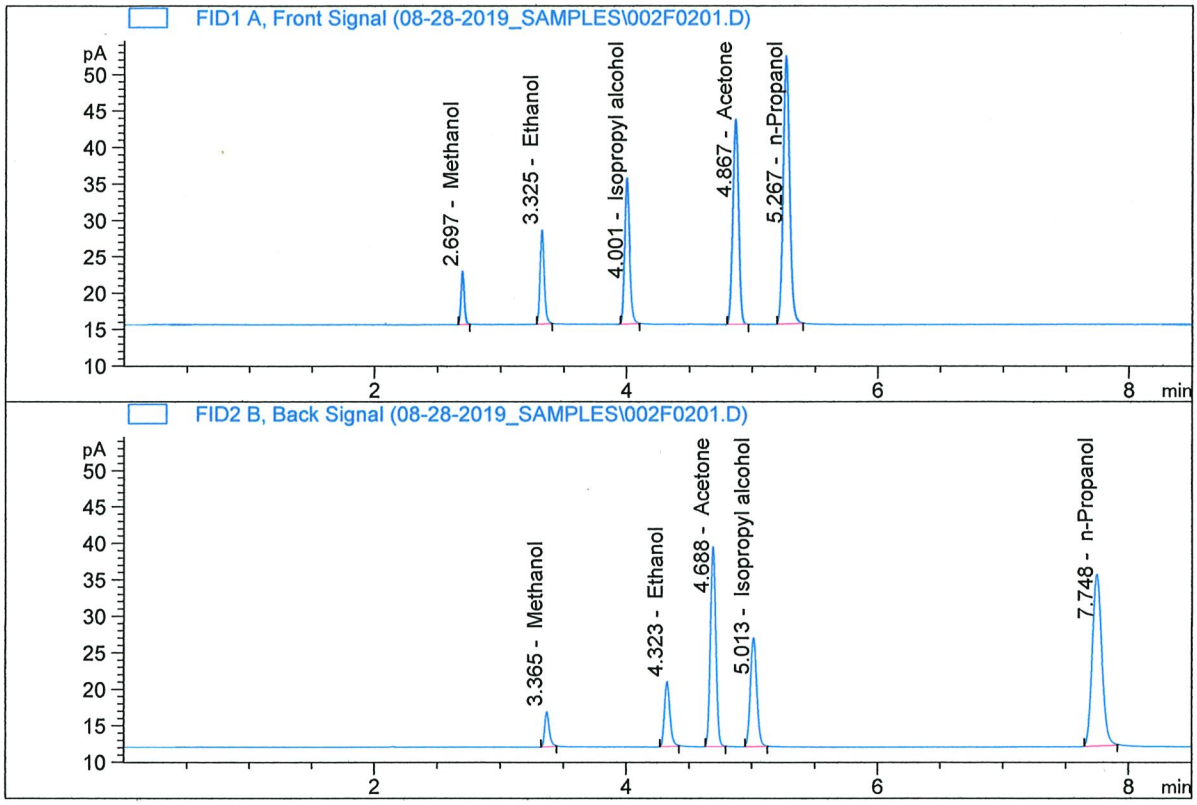
Sample Name : INTERNAL STD
Laboratory : Pocatello
Injection Date : Aug 28, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	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:	95.39539	1.0000	g/100cc
4.	n-Propanol	Column 2:	89.26803	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

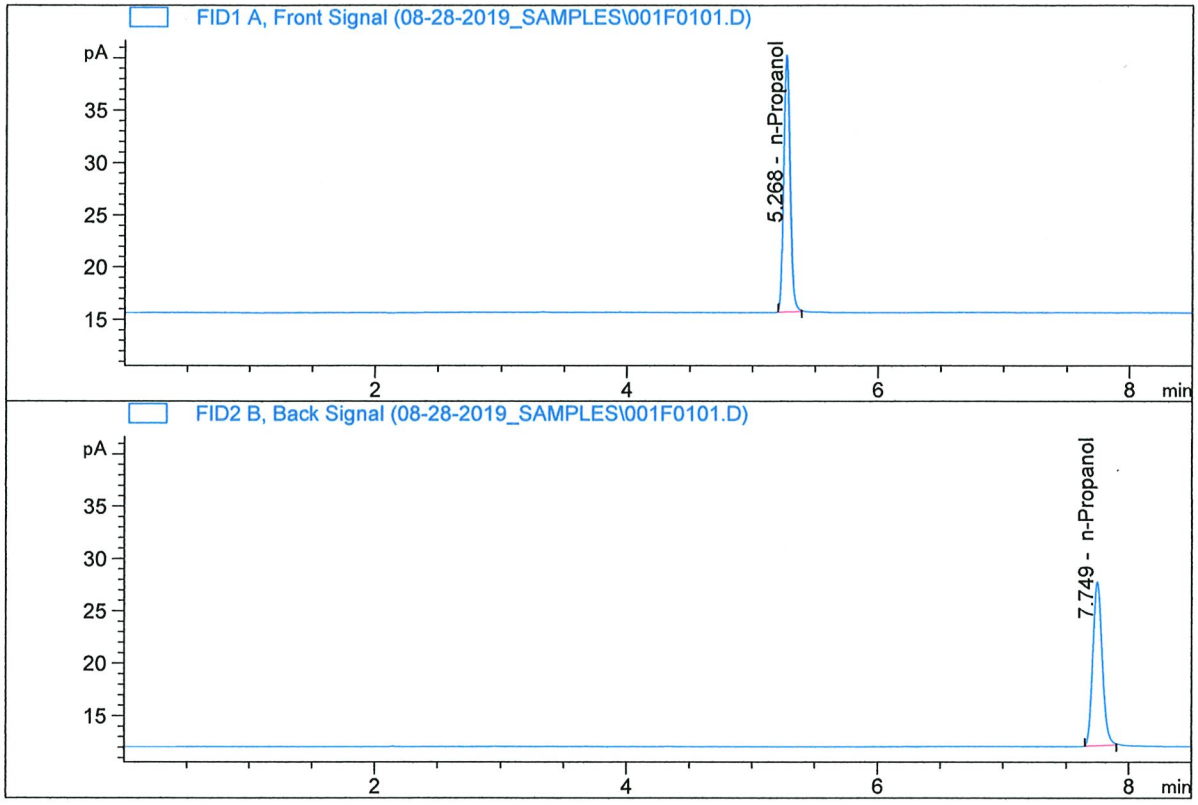
Sample Name : MULTI-COMP MIX
Laboratory : Pocatello
Injection Date : Aug 28, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	29.49357	0.1126	g/100cc
2.	Ethanol	Column 2:	26.77125	0.1090	g/100cc
3.	n-Propanol	Column 1:	131.47235	1.0000	g/100cc
4.	n-Propanol	Column 2:	124.22991	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
Laboratory : Pocatello
Injection Date : Aug 28, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	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:	88.02829	1.0000	g/100cc
4.	n-Propanol	Column 2:	82.89254	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 28 Aug 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0774	0.0727	0.0047	0.0750	0.0748	
(g/100cc)	0.0768	0.0723	0.0045	0.0745		

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: MD96JF1032

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**

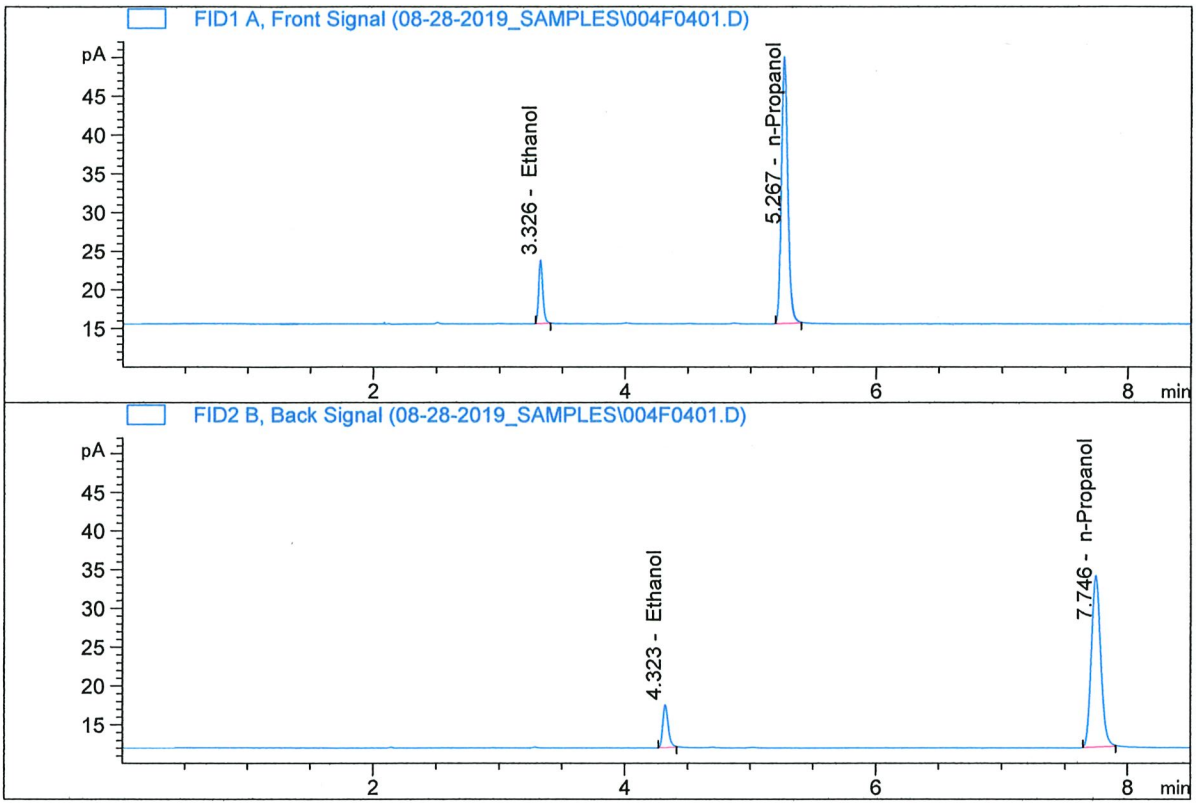
Reported Result
0.074

Calibration and control data are stored centrally.

Revision: 1
Issue Date: 01/04/2019
Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

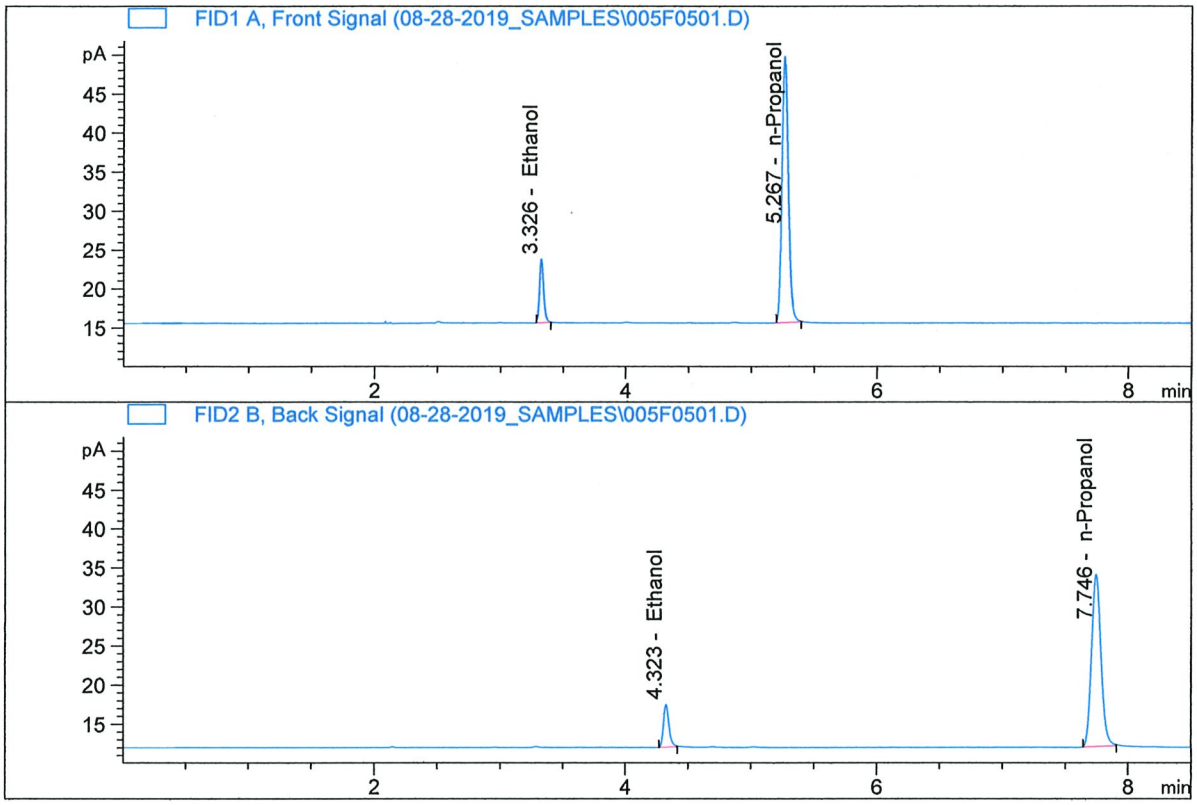
Sample Name : QC1-1-A
Laboratory : Pocatello
Injection Date : Aug 28, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.96024	0.0774	g/100cc
2.	Ethanol	Column 2:	16.71023	0.0727	g/100cc
3.	n-Propanol	Column 1:	123.01193	1.0000	g/100cc
4.	n-Propanol	Column 2:	116.22273	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
Laboratory : Pocatello
Injection Date : Aug 28, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.75633	0.0768	g/100cc
2.	Ethanol	Column 2:	16.59361	0.0723	g/100cc
3.	n-Propanol	Column 1:	122.62025	1.0000	g/100cc
4.	n-Propanol	Column 2:	116.07374	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 08 QA **Analysis Date(s): 28 Aug 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0784	0.0744	0.0040	0.0764	0.0763	
(g/100cc)	0.0781	0.0743	0.0038	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: MD96JF1032

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

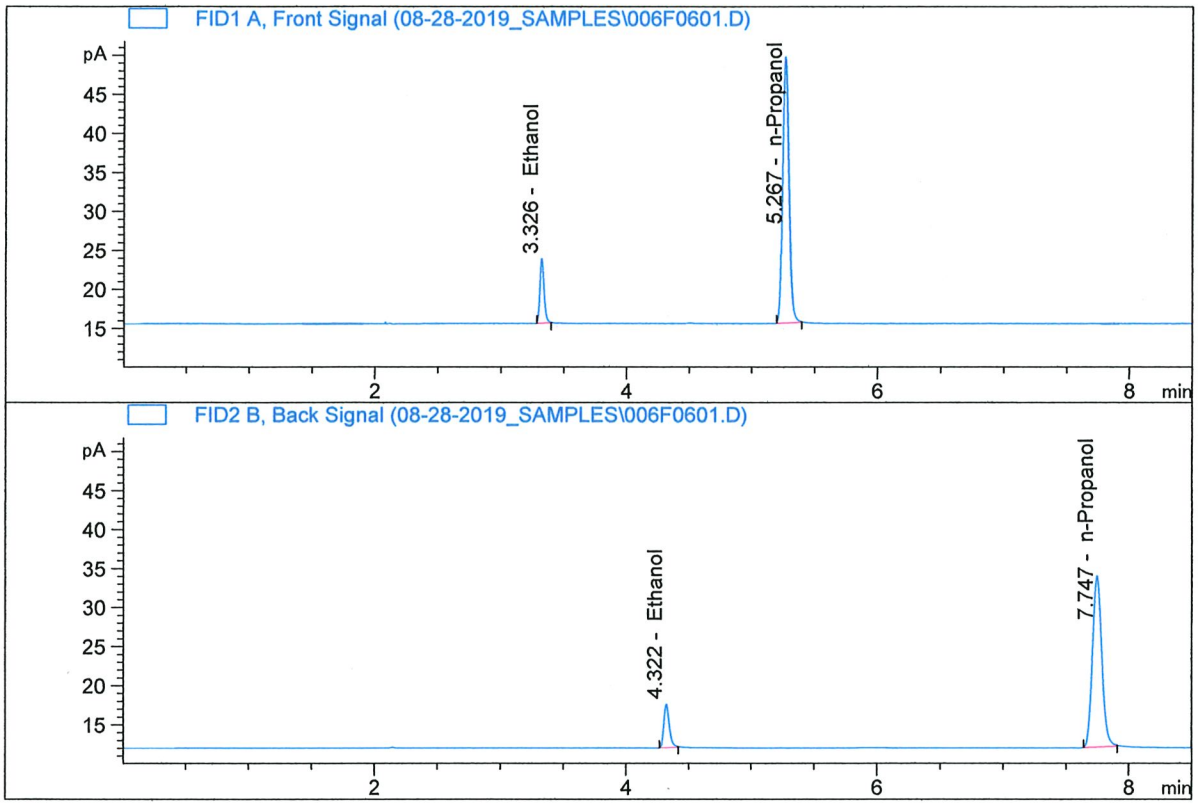
0.076

Calibration and control data are stored centrally.

Revision: 1
Issue Date: 01/04/2019
Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

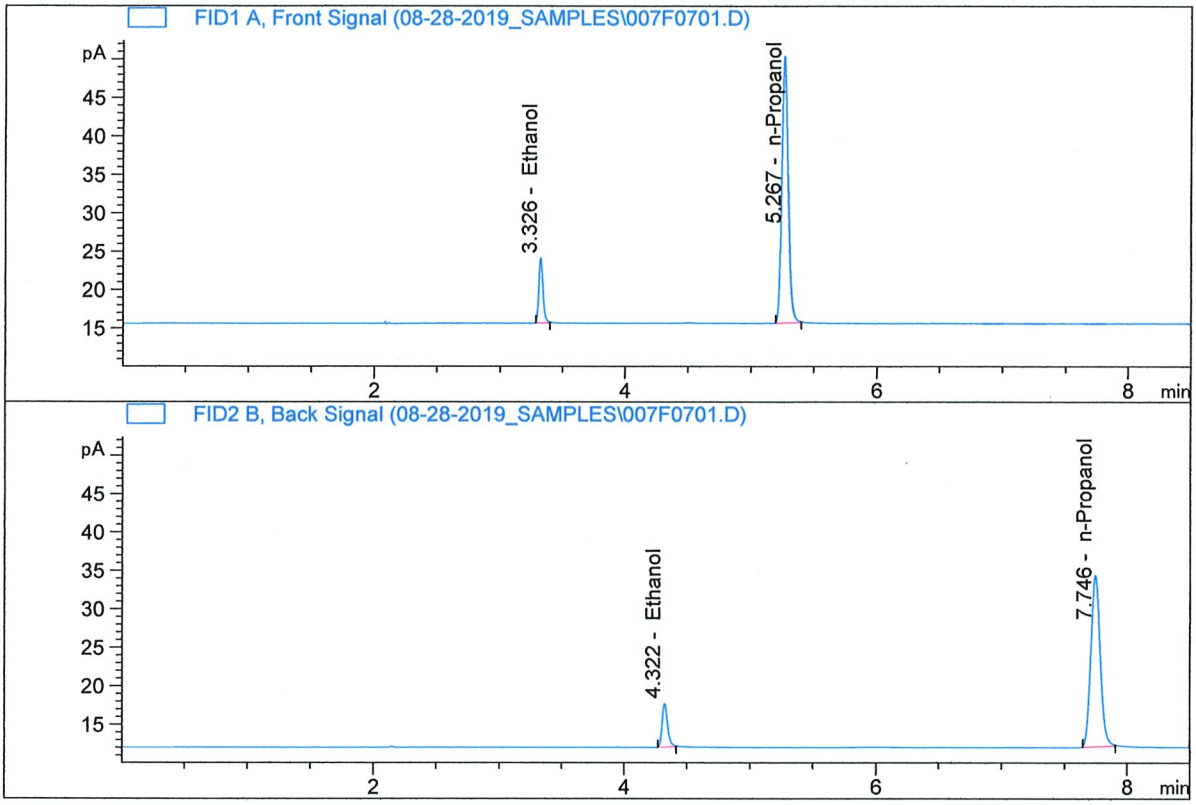
Sample Name : 08 QA-A
Laboratory : Pocatello
Injection Date : Aug 28, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.06990	0.0784	g/100cc
2.	Ethanol	Column 2:	16.97318	0.0744	g/100cc
3.	n-Propanol	Column 1:	122.14433	1.0000	g/100cc
4.	n-Propanol	Column 2:	115.46450	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 08 QA-B
Laboratory : Pocatello
Injection Date : Aug 28, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.34434	0.0781	g/100cc
2.	Ethanol	Column 2:	17.23048	0.0743	g/100cc
3.	n-Propanol	Column 1:	124.29214	1.0000	g/100cc
4.	n-Propanol	Column 2:	117.34826	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 28 Aug 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1961	0.1927	0.0034	0.1944	0.1951	
(g/100cc)	0.1973	0.1945	0.0028	0.1959		

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: MD96JF1032

Reporting of Results **Uncertainty of Measurement (UM%): 5.00%**

Overall Mean (g/100cc)	Low	High	5% of Mean
0.195	**0.185**	**0.205**	**0.010**

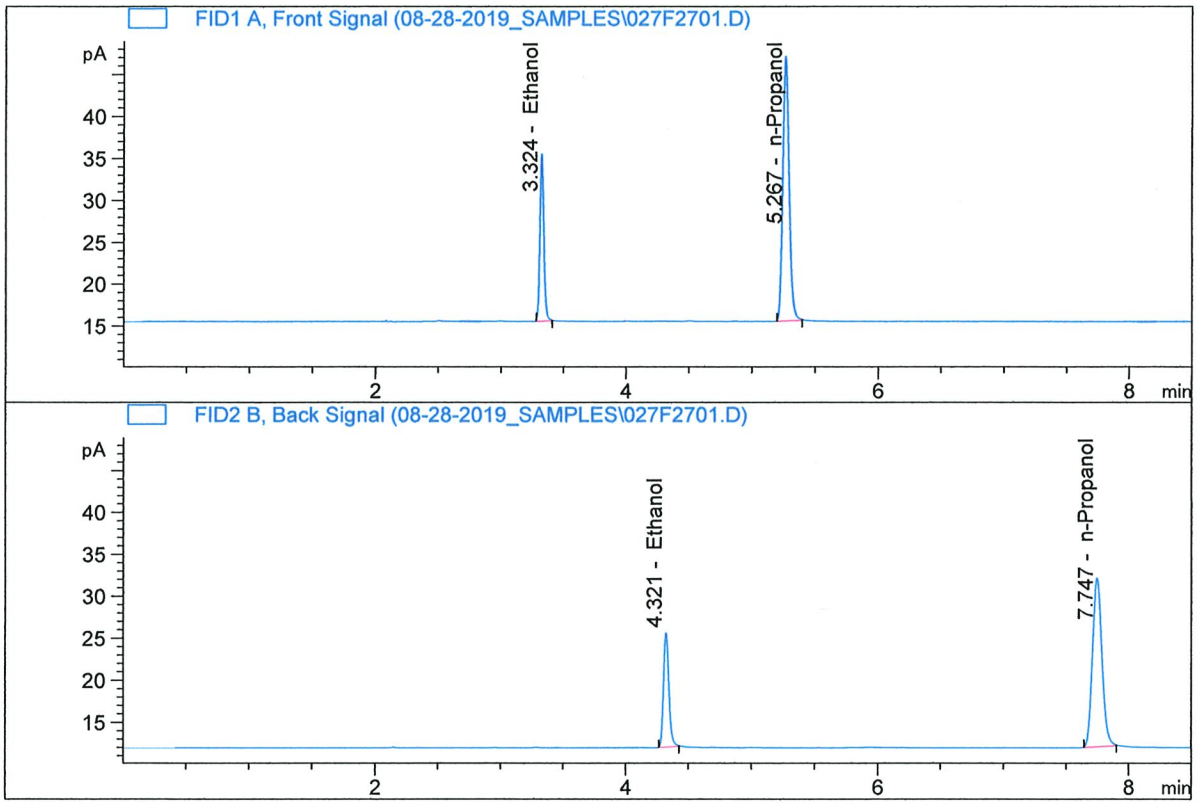
Reported Result

0.195

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

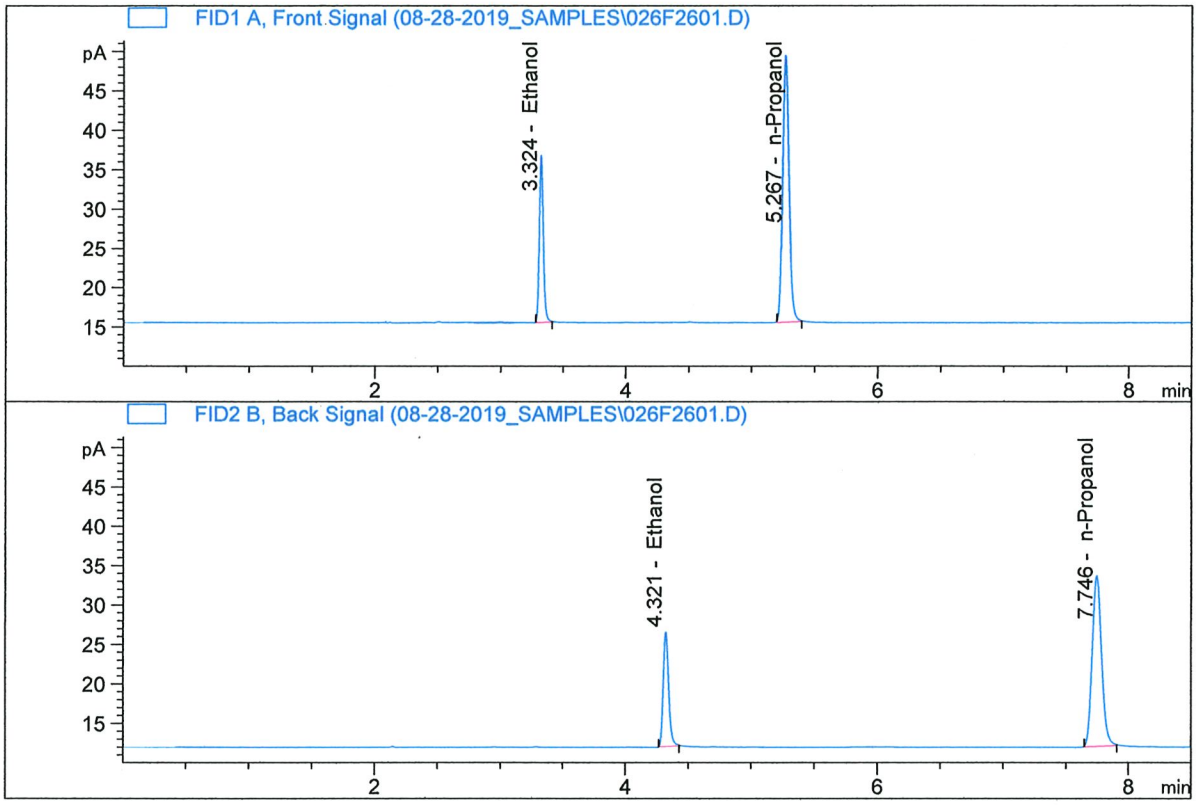
Sample Name : QC2-1-B
Laboratory : Pocatello
Injection Date : Aug 28, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	44.41019	0.1973	g/100cc
2.	Ethanol	Column 2:	40.87000	0.1945	g/100cc
3.	n-Propanol	Column 1:	112.98759	1.0000	g/100cc
4.	n-Propanol	Column 2:	106.30096	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A
Laboratory : Pocatello
Injection Date : Aug 28, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	47.30437	0.1961	g/100cc
2.	Ethanol	Column 2:	43.51789	0.1927	g/100cc
3.	n-Propanol	Column 1:	121.07710	1.0000	g/100cc
4.	n-Propanol	Column 2:	114.24355	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Analysis Date(s): 28 Aug 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0786	0.0743	0.0043	0.0764	0.0764	
(g/100cc)	0.0783	0.0745	0.0038	0.0764		

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: MD96JF1032

Reporting of Results **Uncertainty of Measurement (UM%): 5.00%**

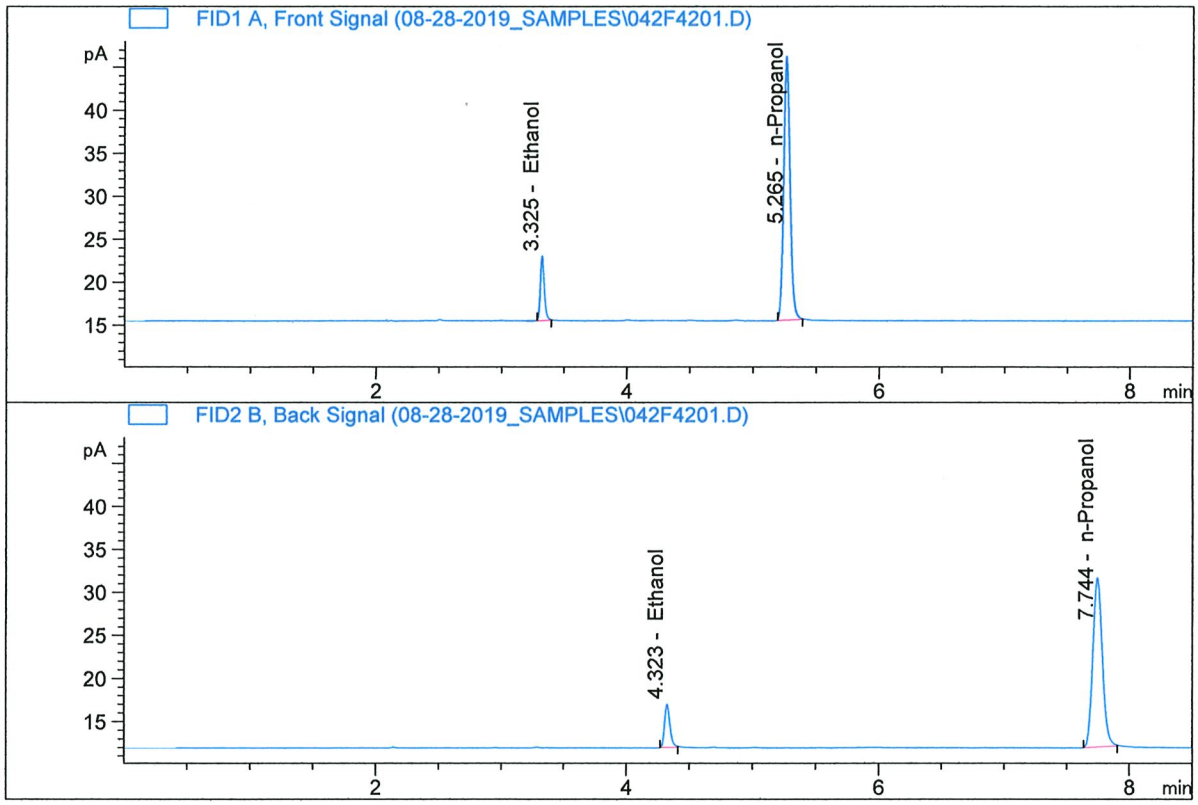
Overall Mean (g/100cc)	Low	High	5% of Mean
0.076	0.072	0.080	0.004

Reported Result
0.076

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-A
Laboratory : Pocatello
Injection Date : Aug 28, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010

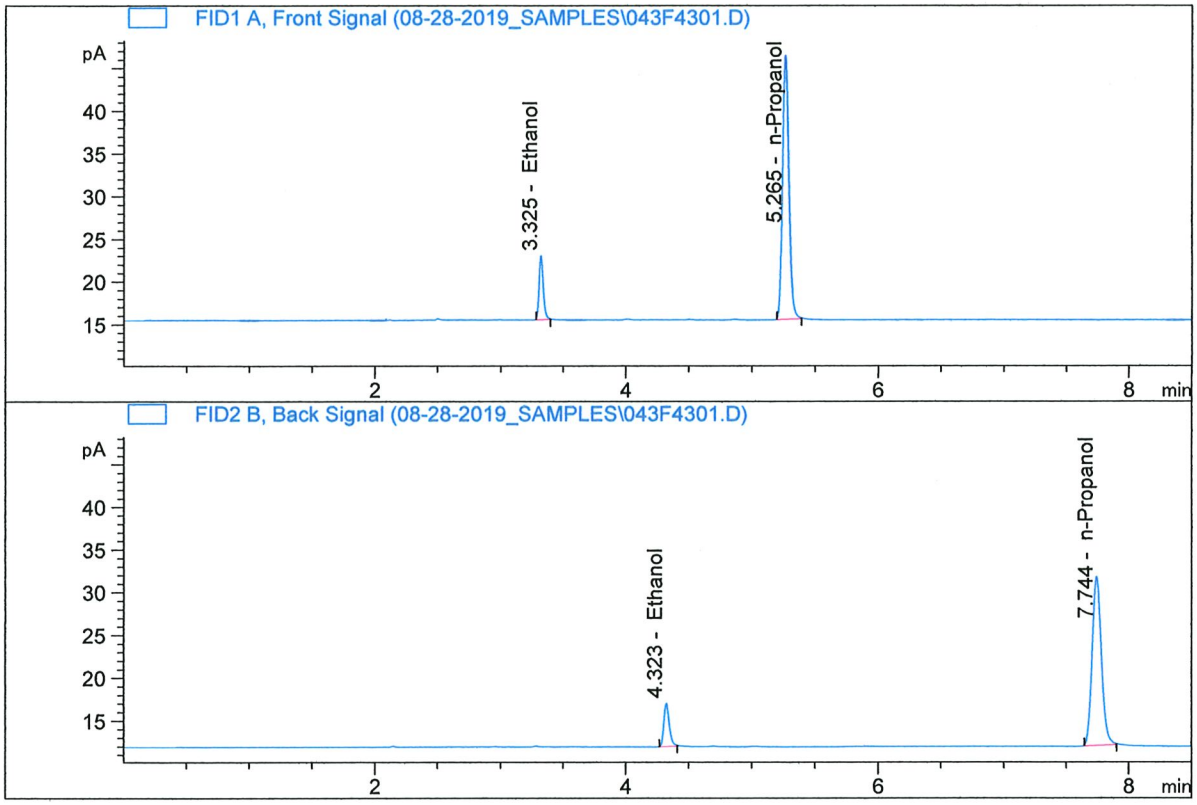


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.16115	0.0786	g/100cc
2.	Ethanol	Column 2:	15.28146	0.0743	g/100cc
3.	n-Propanol	Column 1:	109.65413	1.0000	g/100cc
4.	n-Propanol	Column 2:	103.99609	1.0000	g/100cc

KC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
Laboratory : Pocatello
Injection Date : Aug 28, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010

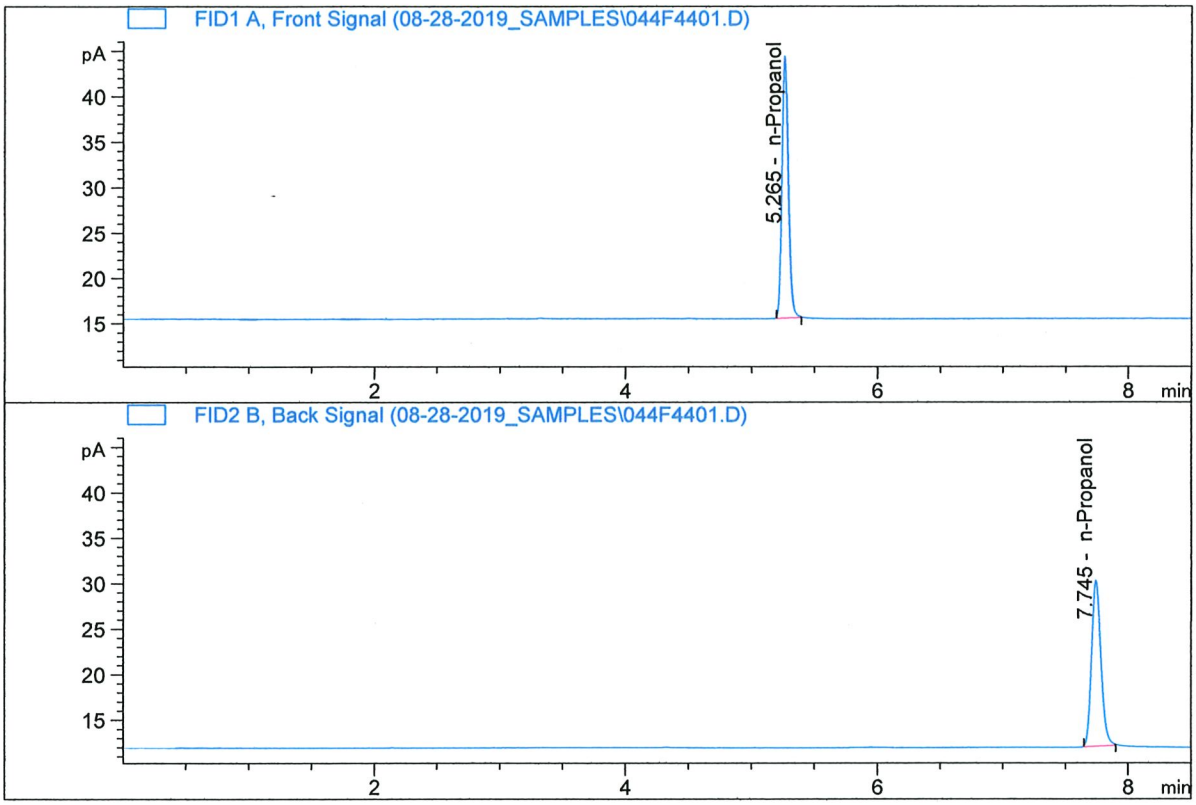


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.20988	0.0783	g/100cc
2.	Ethanol	Column 2:	15.38484	0.0745	g/100cc
3.	n-Propanol	Column 1:	110.25958	1.0000	g/100cc
4.	n-Propanol	Column 2:	104.48198	1.0000	g/100cc

RC

ISP Forensic Services Blood Alcohol Report

Sample Name : INT STD BLK
Laboratory : Pocatello
Injection Date : Aug 28, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	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:	102.59190	1.0000	g/100cc
4.	n-Propanol	Column 2:	96.31190	1.0000	g/100cc

Sequence File C:\Chem32\1\TEMP\AESEQ\QS_28.08.2019_02.51.56\08-28-19RC.S

Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_28.08.2019_02.51.56\08-28-19RC.S
Data directory path: C:\Chem32\1\Data\08-28-2019_SAMPLES
Logbook: C:\Chem32\1\Data\08-28-2019_SAMPLES\08-28-19RC.LOG
Sequence start: 8/28/2019 3:05:45 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\CHEM32\1\METHODS\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	MULTI-COMP MIX	-	1.0000	002F0201.D		10
3	3	1	INTERNAL STD	-	1.0000	003F0301.D		2
4	4	1	QC1-1-A	-	1.0000	004F0401.D		4
5	5	1	QC1-1-B	-	1.0000	005F0501.D		4
6	6	1	08 QA-A	-	1.0000	006F0601.D		4
7	7	1	08 QA-B	-	1.0000	007F0701.D		4
8	8	1	P2019-2535-1-A	-	1.0000	008F0801.D		4
9	9	1	P2019-2535-1-B	-	1.0000	009F0901.D		4
10	10	1	P2019-2541-1-A	-	1.0000	010F1001.D		4
11	11	1	P2019-2541-1-B	-	1.0000	011F1101.D		4
12	12	1	P2019-2545-1-A	-	1.0000	012F1201.D		6
13	13	1	P2019-2545-1-B	-	1.0000	013F1301.D		6
14	14	1	P2019-2547-1-A	-	1.0000	014F1401.D		4
15	15	1	P2019-2547-1-B	-	1.0000	015F1501.D		4
16	16	1	P2019-2556-1-A	-	1.0000	016F1601.D		2
17	17	1	P2019-2556-1-B	-	1.0000	017F1701.D		2
18	18	1	P2019-2558-1-A	-	1.0000	018F1801.D		0
19	19	1	P2019-2558-1-B	-	1.0000	019F1901.D		2
20	20	1	P2019-2559-1-A	-	1.0000	020F2001.D		4
21	21	1	P2019-2559-1-B	-	1.0000	021F2101.D		4
22	22	1	P2019-2560-1-A	-	1.0000	022F2201.D		6
23	23	1	P2019-2560-1-B	-	1.0000	023F2301.D		5
24	24	1	P2019-2615-1-A	-	1.0000	024F2401.D		4
25	25	1	P2019-2615-1-B	-	1.0000	025F2501.D		4
26	26	1	QC2-1-A	-	1.0000	026F2601.D		4
27	27	1	QC2-1-B	-	1.0000	027F2701.D		4
28	28	1	P2019-2616-1-A	-	1.0000	028F2801.D		6
29	29	1	P2019-2616-1-B	-	1.0000	029F2901.D		6
30	30	1	P2019-2626-1-A	-	1.0000	030F3001.D		4
31	31	1	P2019-2626-1-B	-	1.0000	031F3101.D		4
32	32	1	P2019-2628-1-A	-	1.0000	032F3201.D		4
33	33	1	P2019-2628-1-B	-	1.0000	033F3301.D		4
34	34	1	P2019-2634-1-A	-	1.0000	034F3401.D		6
35	35	1	P2019-2634-1-B	-	1.0000	035F3501.D		4
36	36	1	P2019-2635-1-A	-	1.0000	036F3601.D		4
37	37	1	P2019-2635-1-B	-	1.0000	037F3701.D		4
38	38	1	P2019-2644-1-A	-	1.0000	038F3801.D		2
39	39	1	P2019-2644-1-B	-	1.0000	039F3901.D		2
40	40	1	P2019-2649-1-A	-	1.0000	040F4001.D		4
41	41	1	P2019-2649-1-B	-	1.0000	041F4101.D		4
42	42	1	QC1-2-A	-	1.0000	042F4201.D		4
43	43	1	QC1-2-B	-	1.0000	043F4301.D		4
44	44	1	INT STD BLK	-	1.0000	044F4401.D		2

RC

Idaho State Police
Forensic Services
Volatiles Discipline

Request for Departure from an Analytical Method

Date of Request
8/29/19

Person Making Request and Title
Rachel Cutler, Pocatello Lab Manager

Analytical Method
Volatiles method 4.0
4.2.2.3.3 Each analysis run must include either an aqueous or blood multicomponent volatile mix.
4.2.2.3.6 Each run, new or previously calibrated, must contain a traceable aqueous control in duplicate at or near the 0.080 level….

Request

I have a case that was extracted and ran on 8/28/19 where sample ~~A~~ B (rc) 8/29/19 is 0.000 ethanol and sample ~~B~~ A rc8/29/19 didn't inject. Request a deviation to rerun A and B, bracketed by a low and high QC and with one internal standard blank, but not including the multicomponent mix or 0.08QA in the run. This is the only sample I'm re-running so basically a qualitative only run. If the sample for some reason comes back with detectable ethanol, I will re-run with other requirements met.

Discipline Leader Review

☒ Departure approved
Comments: Since the first sample complied with the quantitative criteria, and resulted in a 0.000 result, the second analysis of both Tube A and Tube B qualitatively to show that no detectable amount of ethanol exists will satisfy the reporting of 'no ethanol detected' on the final report. The first analysis showed enough information to allow for a second 'qualitative only' analysis to support the ultimate conclusion, if the conclusion is 'no ethanol detected'.

☐ Departure Not Approved
Comments:

Jeremy Johnston
Volatiles Discipline Leader

8-29-19
DATE

RC

Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number: MD96JF1032

Volatiles Quality Assurance Controls **Run Date(s): 08/29/19**

Calibration Curve Run Date: 08/28/19

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jan-22	1801036	0.0812	0.0731-0.0893	0.0825 g/100cc
					g/100cc
					g/100cc
Level 2	Mar-22	1803028	0.2035	0.1832-0.2238	0.2135 g/100cc
					g/100cc
					g/100cc

Multi-Component mixture: Cerilliant		**Lot #**	FN07101701	see deviation
Curve Fit:	**Column 1**	0.99998	**Column2**	0.99991

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0519	0.0500	0.0019	0.0509
100	0.100	0.090 - 0.110	0.0975	0.0958	0.0017	0.0966
200	0.200	0.180 - 0.220	0.1978	0.1949	0.0029	0.1963
300	0.300	0.270 - 0.330	0.2993	0.2970	0.0023	0.2981
500	0.500	0.450 - 0.550	0.5016	0.5047	0.0031	0.5031

Aqueous Controls

Control level	Target Value	Acceptable Range	Overall Results
80	0.080	0.076 - 0.084	n/a g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 29 Aug 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0848	0.0804	0.0044	0.0826	0.0825	
(g/100cc)	0.0847	0.0804	0.0043	0.0825		

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: MD96JF1032

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

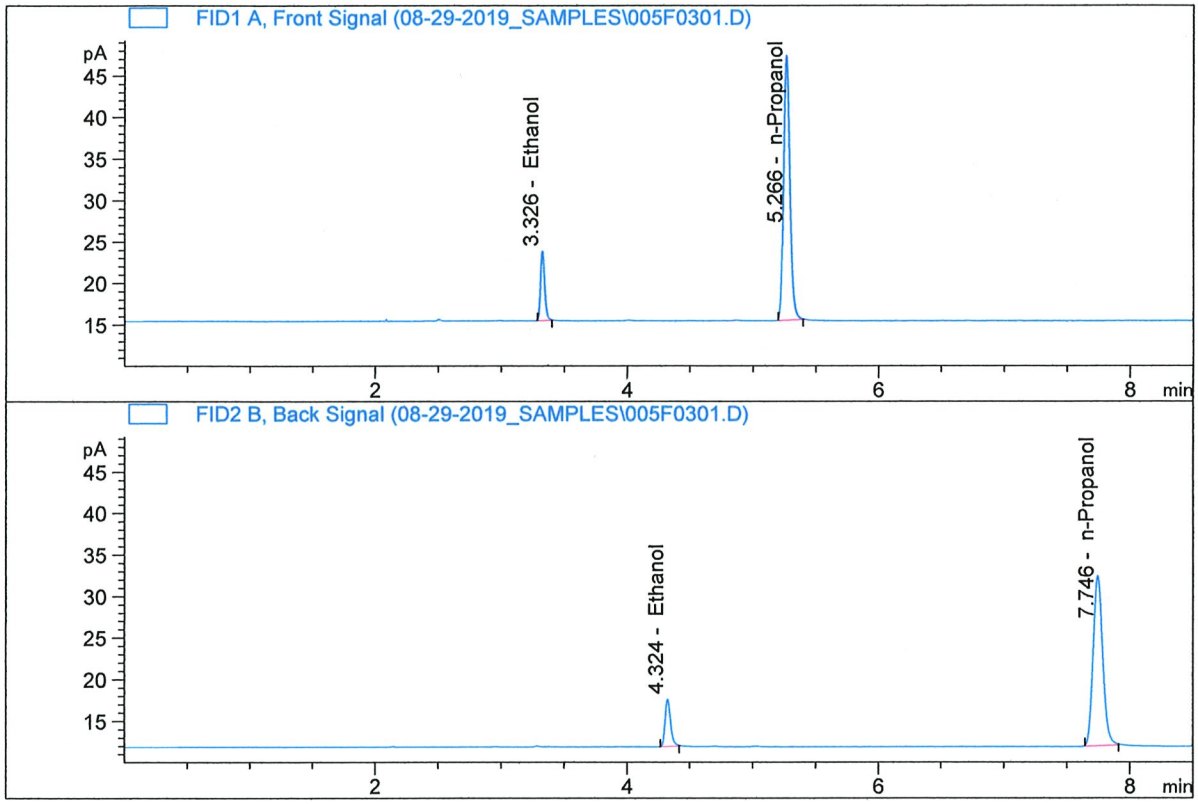
0.082

Calibration and control data are stored centrally.

Revision: 1
Issue Date: 01/04/2019
Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

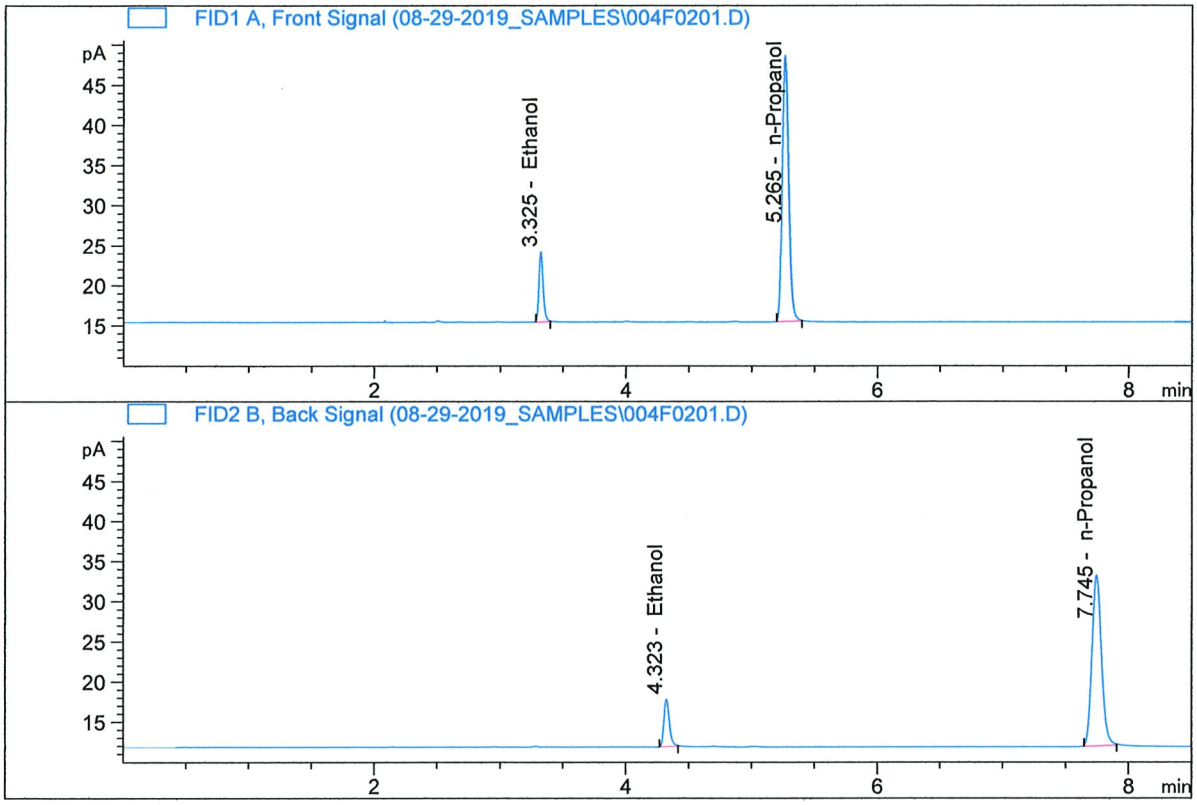
Sample Name : QC1-1-B
Laboratory : Pocatello
Injection Date : Aug 29, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.21774	0.0847	g/100cc
2.	Ethanol	Column 2:	17.16443	0.0804	g/100cc
3.	n-Propanol	Column 1:	113.94225	1.0000	g/100cc
4.	n-Propanol	Column 2:	108.03029	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

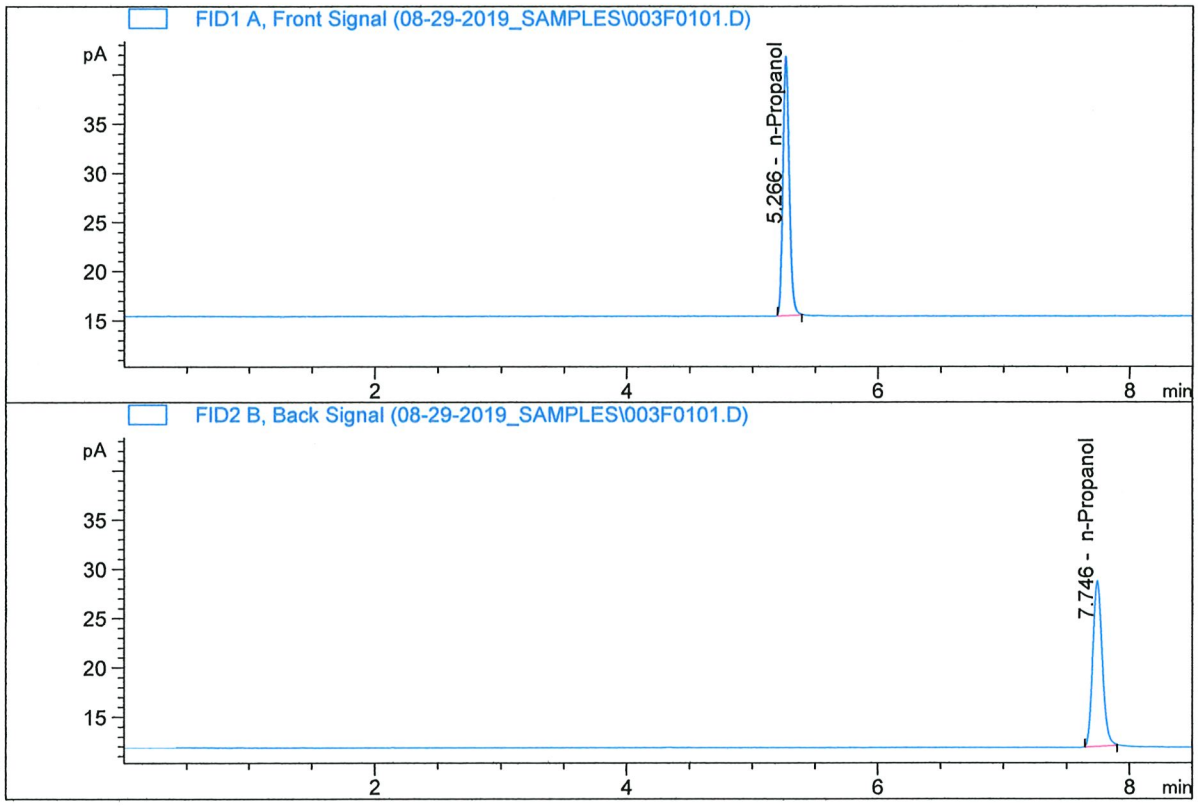
Sample Name : QC1-1-A
Laboratory : Pocatello
Injection Date : Aug 29, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	20.00373	0.0848	g/100cc
2.	Ethanol	Column 2:	17.84901	0.0804	g/100cc
3.	n-Propanol	Column 1:	118.41261	1.0000	g/100cc
4.	n-Propanol	Column 2:	112.28016	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD
Laboratory : Pocatello
Injection Date : Aug 29, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	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:	94.48212	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.89791	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 29 Aug 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2140	0.2115	0.0025	0.2127	0.2135	
(g/100cc)	0.2158	0.2128	0.0030	0.2143		

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: MD96JF1032

Reporting of Results **Uncertainty of Measurement (UM%): 5.00%**

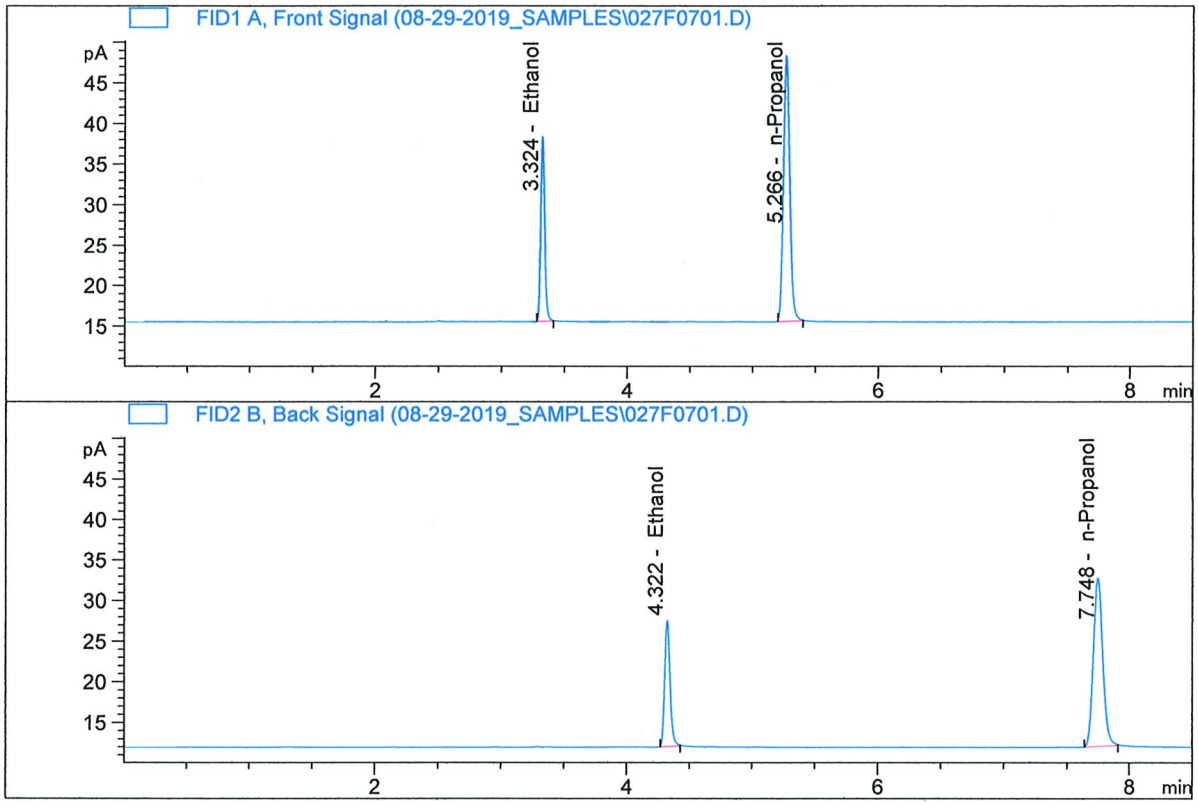
Overall Mean (g/100cc)	Low	High	5% of Mean
0.213	0.202	0.224	0.011

Reported Result
0.213

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

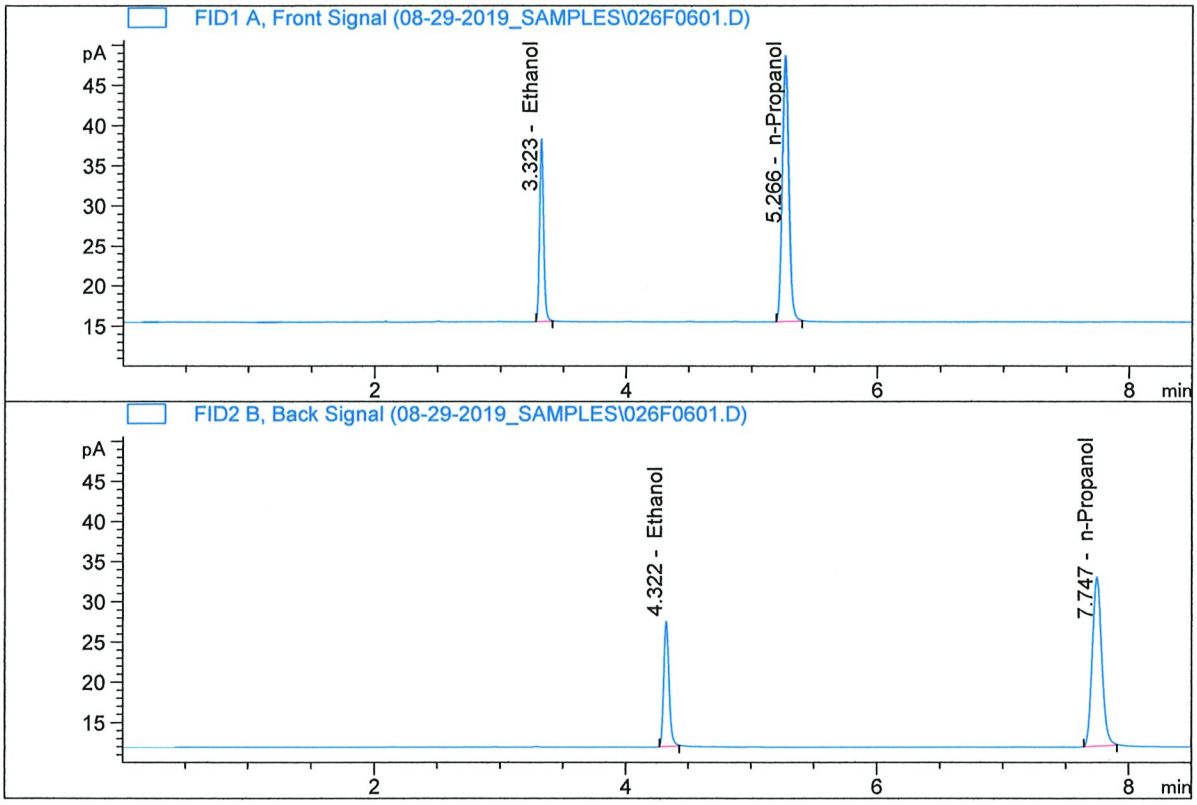
Sample Name : QC2-1-B
Laboratory : Pocatello
Injection Date : Aug 29, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	50.27446	0.2158	g/100cc
2.	Ethanol	Column 2:	46.12645	0.2128	g/100cc
3.	n-Propanol	Column 1:	116.95879	1.0000	g/100cc
4.	n-Propanol	Column 2:	109.64373	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A
Laboratory : Pocatello
Injection Date : Aug 29, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742043-IT00741010



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	50.42574	0.2140	g/100cc
2.	Ethanol	Column 2:	46.33960	0.2115	g/100cc
3.	n-Propanol	Column 1:	118.26127	1.0000	g/100cc
4.	n-Propanol	Column 2:	110.83535	1.0000	g/100cc

Sequence File C:\Chem32\1\TEMP\AESEQ\QS_29.08.2019_10.53.04\08-29-19RC.S

Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_29.08.2019_10.53.04\08-29-19RC.S
Data directory path: C:\Chem32\1\Data\08-29-2019_SAMPLES
Logbook: C:\Chem32\1\Data\08-29-2019_SAMPLES\08-29-19RC.LOG
Sequence start: 8/29/2019 11:08:01 AM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\CHEM32\1\METHODS\ALCOHOL.M

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	# Cmp
1	3	1	INTERNAL STD	-	1.0000	003F0101.D		2
2	4	1	QC1-1-A	-	1.0000	004F0201.D		4
3	5	1	QC1-1-B	-	1.0000	005F0301.D		4
4	18	1	P2019-2558-1-A	-	1.0000	018F0401.D		3
5	19	1	P2019-2558-1-B	-	1.0000	019F0501.D		3
6	26	1	QC2-1-A	-	1.0000	026F0601.D		4
7	27	1	QC2-1-B	-	1.0000	027F0701.D		4