



















**Worklist: 2864**

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2018-1948	1	133437	Alcohol Analysis	
C2018-2329	1	132090	Alcohol Analysis	
C2018-2341	1	132339	Alcohol Analysis	
C2018-2348	1	132573	Alcohol Analysis	
C2018-2417	1	133111	Alcohol Analysis	
C2018-2463	1	133936	Alcohol Analysis	
C2018-2490	1	134278	Alcohol Analysis	
C2018-2506	1	134354	Alcohol Analysis	
C2018-2519	1	134586	Alcohol Analysis	
C2018-2521	1	134615	Alcohol Analysis	
C2018-2523	1	134625	Alcohol Analysis	
C2018-2534	1	134829	Alcohol Analysis	
C2018-2539	1	134906	Alcohol Analysis	
C2018-2569	1	135195	Alcohol Analysis	
C2018-2570	2	135202	Alcohol Analysis	
C2018-2573	1	135244	Alcohol Analysis	
C2018-2574	1	135245	Alcohol Analysis	
C2018-2578	1	135482	Alcohol Analysis	

Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB 503A Liquid Processor/Dilutor Serial Number: ML600HC11379


Volatiles Quality Assurance Controls

Run Date(s): 12/28/2018

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jan-22	1801036	0.0812	0.0731-0.0893	0.0771 g/100cc
					0.0784 g/100cc
					g/100cc
Level 2	Jan-22	1803028	0.2035	0.1832-0.2238	0.1994 g/100cc
					g/100cc
					g/100cc
Multi-Component mixture:		Sep-20	Lot #	FN06041502	OK
Curve Fit:		Column 1	1.00000	Column 2	0.99999

Ethanol Calibration Reference Material						
Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0500	0.0491	0.0009	0.0495
100	0.100	0.090 - 0.110	0.0992	0.0986	0.0006	0.0989
200	0.200	0.180 - 0.220	0.1986	0.1990	0.0004	0.1988
300	0.300	0.270 - 0.330	0.3005	0.3008	0.0003	0.3006
500	0.500	0.450 - 0.550	0.5004	0.5003	1E-04	0.5003

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

Revision: 5 

»Location	»Sample_Name	»Method_I	»Injector	»InjectionS	»InjVolume	»Inj_Vial	»Sample_T
1	water	ALCOHOL	Front	As Method		1	Sample
2	VOL MIX FN-06041502	ALCOHOL	Front	As Method		1	Sample
3	ISTD BLANK	ALCOHOL	Front	As Method		1	Sample
4	QC-1-A	ALCOHOL	Front	As Method		1	Sample
5	QC-1-B	ALCOHOL	Front	As Method		1	Sample
6	0.08 FN04171701-A	ALCOHOL	Front	As Method		1	Sample
7	0.08 FN04171701-B	ALCOHOL	Front	As Method		1	Sample
8	C2018-1948-1-A	ALCOHOL	Front	As Method		1	Sample
9	C2018-1948-1-B	ALCOHOL	Front	As Method		1	Sample
10	C2018-2329-1-A	ALCOHOL	Front	As Method		1	Sample
11	C2018-2329-1-B	ALCOHOL	Front	As Method		1	Sample
12	C2018-2341-1-A	ALCOHOL	Front	As Method		1	Sample
13	C2018-2341-1-B	ALCOHOL	Front	As Method		1	Sample
14	C2018-2348-1-A	ALCOHOL	Front	As Method		1	Sample
15	C2018-2348-1-B	ALCOHOL	Front	As Method		1	Sample
16	C2018-2417-1-A	ALCOHOL	Front	As Method		1	Sample
17	C2018-2417-1-B	ALCOHOL	Front	As Method		1	Sample
18	C2018-2463-1-A	ALCOHOL	Front	As Method		1	Sample
19	C2018-2463-1-B	ALCOHOL	Front	As Method		1	Sample
20	C2018-2490-1-A	ALCOHOL	Front	As Method		1	Sample
21	C2018-2490-1-B	ALCOHOL	Front	As Method		1	Sample
22	C2018-2506-1-A	ALCOHOL	Front	As Method		1	Sample
23	C2018-2506-1-B	ALCOHOL	Front	As Method		1	Sample
24	C2018-2519-1-A	ALCOHOL	Front	As Method		1	Sample
25	C2018-2519-1-B	ALCOHOL	Front	As Method		1	Sample
26	QC-2-A	ALCOHOL	Front	As Method		1	Sample
27	QC-2-B	ALCOHOL	Front	As Method		1	Sample
28	C2018-2521-1-A	ALCOHOL	Front	As Method		1	Sample
29	C2018-2521-1-B	ALCOHOL	Front	As Method		1	Sample
30	C2018-2523-1-A	ALCOHOL	Front	As Method		1	Sample
31	C2018-2523-1-B	ALCOHOL	Front	As Method		1	Sample
32	C2018-2534-1-A	ALCOHOL	Front	As Method		1	Sample
33	C2018-2534-1-B	ALCOHOL	Front	As Method		1	Sample
34	C2018-2539-1-A	ALCOHOL	Front	As Method		1	Sample
35	C2018-2539-1-B	ALCOHOL	Front	As Method		1	Sample
36	C2018-2569-1-A	ALCOHOL	Front	As Method		1	Sample
37	C2018-2569-1-B	ALCOHOL	Front	As Method		1	Sample
38	C2018-2570-1 <sup>2</sup> A	ALCOHOL	Front	As Method		1	Sample
39	C2018-2570-1 <sup>2</sup> B	ALCOHOL	Front	As Method		1	Sample
40	C2018-2573-1-A	ALCOHOL	Front	As Method		1	Sample
41	C2018-2573-1-B	ALCOHOL	Front	As Method		1	Sample
42	C2018-2574-1-A	ALCOHOL	Front	As Method		1	Sample
43	C2018-2574-1-B	ALCOHOL	Front	As Method		1	Sample
44	C2018-2578-1-A	ALCOHOL	Front	As Method		1	Sample
45	C2018-2578-1-B	ALCOHOL	Front	As Method		1	Sample
46	QC-1-A	ALCOHOL	Front	As Method		1	Sample

47 QC-1-B	ALCOHOL	Front	As Method	1 Sample
48 ISTD BLANK	ALCOHOL	Front	As Method	1 Sample
49 water	ALCOHOL	Front	As Method	1 Sample
50 SHUTDOWN	SHUTDOWN	Front	As Method	1 Sample

=====  
Calibration Table  
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General Calibration Setting  
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Calib. Data Modified : Friday, December 28, 2018 3:02:09 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

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Signal Details  
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Signal 1: FID1 A, Front Signal  
Signal 2: FID2 B, Back Signal  
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Overview Table  
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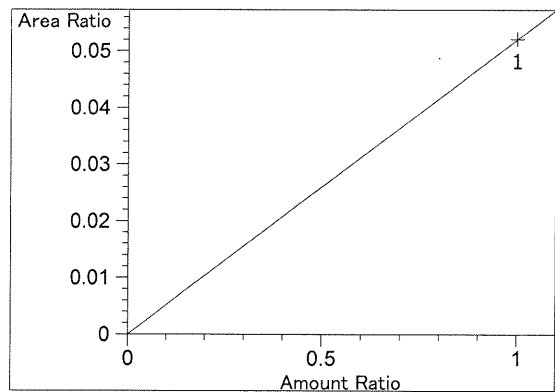
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RT	Sig	Lvl	Amount [g/100cc]	Area	Rsp.Factor	Ref	ISTD #	Compound
2.000	2	1	1.00000	5.00000	2.00000e-1	No	No 2	Difluoroethane
2.000	1	1	1.00000	5.00000	2.00000e-1	No	No 1	Difluoroethane
2.494	1	1	1.00000	3.69669	2.70512e-1	No	No 1	Methanol
2.772	1	1	1.00000	3.19311	3.13174e-1	No	No 1	Acetaldehyde
2.797	2	1	1.00000	3.10575	3.21983e-1	No	No 2	Acetaldehyde
3.105	1	1	5.00000e-2	9.04469	5.52811e-3	No	No 1	Ethanol
		2	1.00000e-1	18.22615	5.48662e-3			
		3	2.00000e-1	36.29511	5.51038e-3			
		4	3.00000e-1	54.95046	5.45946e-3			
		5	5.00000e-1	91.67623	5.45398e-3			
3.211	2	1	1.00000	4.26062	2.34707e-1	No	No 2	Methanol
3.715	1	1	1.00000	9.73055	1.02769e-1	No	No 1	Isopropyl alcohol
4.176	2	1	5.00000e-2	9.10649	5.49059e-3	No	No 2	Ethanol
		2	1.00000e-1	18.42628	5.42703e-3			
		3	2.00000e-1	36.88901	5.42167e-3			
		4	3.00000e-1	55.73503	5.38261e-3			
		5	5.00000e-1	92.72935	5.39204e-3			
4.530	1	1	1.00000	6.49940	1.53860e-1	No	No 1	Acetone
4.549	2	1	1.00000	6.89301	1.45075e-1	No	No 2	Acetone
4.870	2	1	1.00000	10.70642	9.34019e-2	No	No 2	Isopropyl alcohol
4.937	1	1	1.00000	96.06255	1.04099e-2	No	Yes 1	n-Propanol
		2	1.00000	97.63586	1.02421e-2			
		3	1.00000	97.10672	1.02979e-2			
		4	1.00000	97.15501	1.02928e-2			
		5	1.00000	97.33640	1.02736e-2			
7.613	2	1	1.00000	95.97466	1.04194e-2	No	Yes 2	n-Propanol
		2	1.00000	96.68084	1.03433e-2			
		3	1.00000	95.88269	1.04294e-2			
		4	1.00000	95.85242	1.04327e-2			
		5	1.00000	95.86896	1.04309e-2			

Peak Sum Table

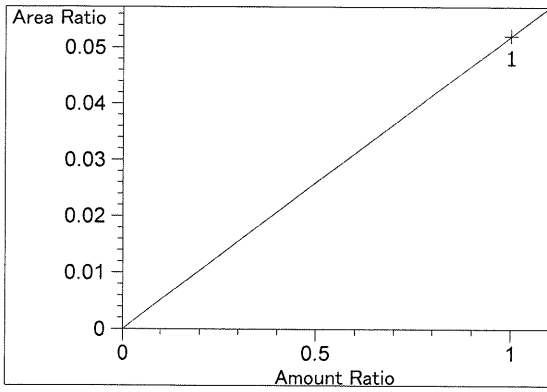
\*\*\*No Entries in table\*\*\*

Calibration Curves

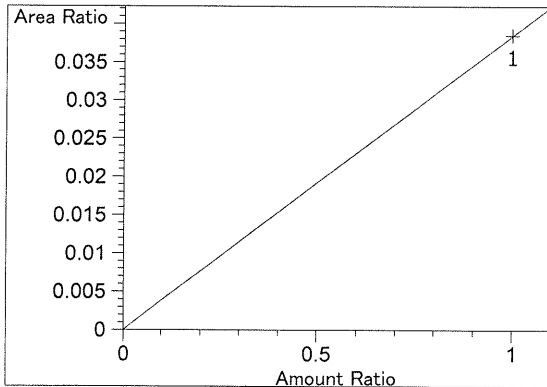


Difluoroethane at exp. RT: 2.000  
 FID2 B, Back Signal  
 Correlation: 1.00000  
 Residual Std. Dev.: 0.00000  
 Formula:  $y = mx$   
 m: 5.20971e-2  
 x: Amount Ratio  
 y: Area Ratio

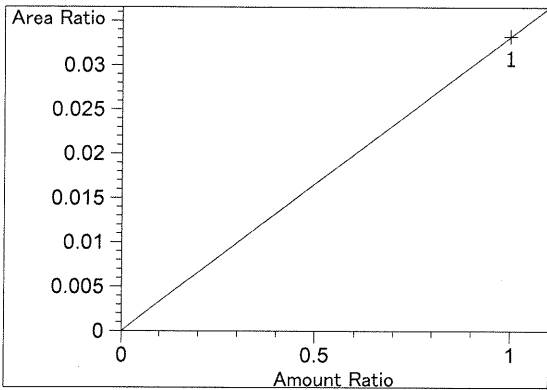
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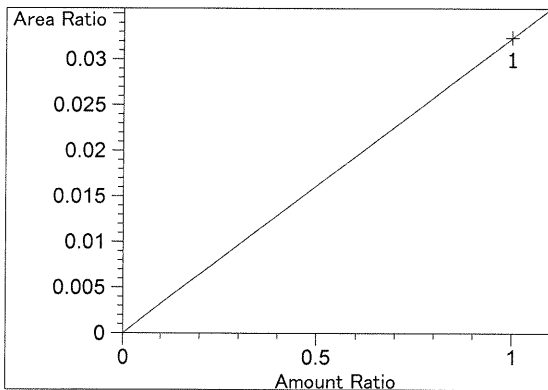
Difluoroethane at exp. RT: 2.000  
FID1 A, Front Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 5.20494e-2  
x: Amount Ratio  
y: Area Ratio



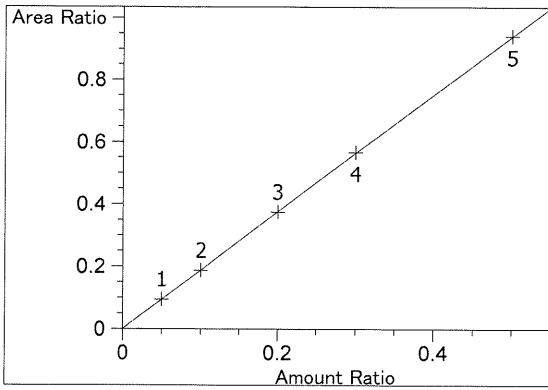
Methanol at exp. RT: 2.494  
FID1 A, Front Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 3.84822e-2  
x: Amount Ratio  
y: Area Ratio



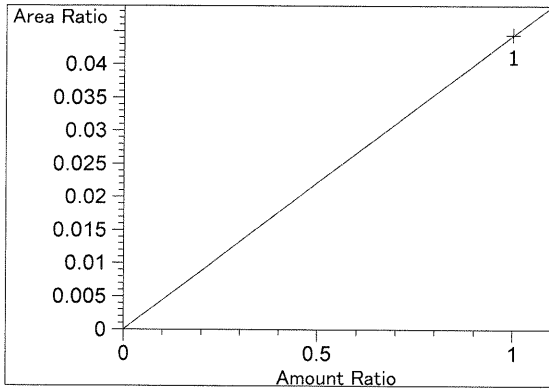
Acetaldehyde at exp. RT: 2.772  
FID1 A, Front Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 3.32399e-2  
x: Amount Ratio  
y: Area Ratio



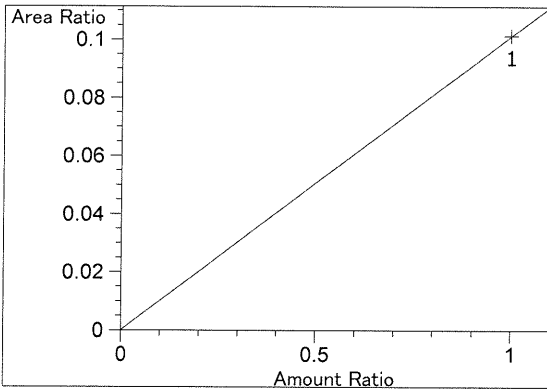
Acetaldehyde at exp. RT: 2.797  
FID2 B, Back Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 3.23601e-2  
x: Amount Ratio  
y: Area Ratio



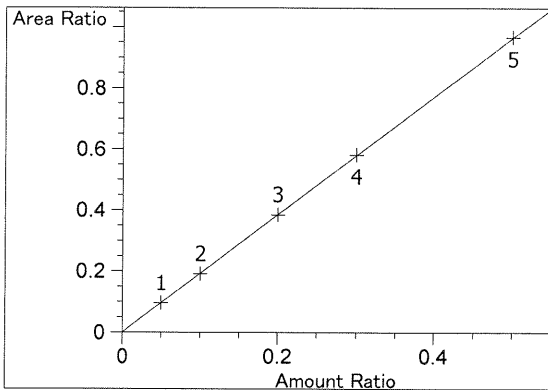
Ethanol at exp. RT: 3.105  
 FID1 A, Front Signal  
 Correlation: 1.00000 ✓  
 Residual Std. Dev.: 0.00166  
 Formula:  $y = mx$   
 m: 1.88212  
 x: Amount Ratio  
 y: Area Ratio



Methanol at exp. RT: 3.211  
 FID2 B, Back Signal  
 Correlation: 1.00000  
 Residual Std. Dev.: 0.00000  
 Formula:  $y = mx$   
 m: 4.43932e-2  
 x: Amount Ratio  
 y: Area Ratio



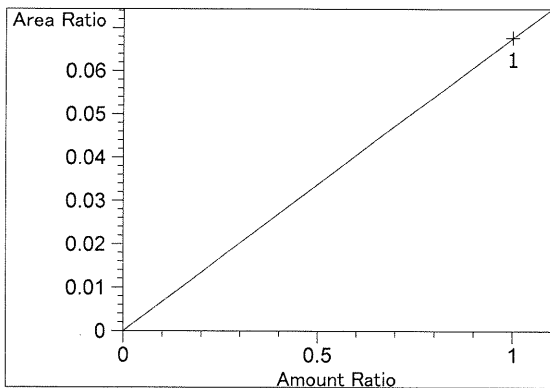
Isopropyl alcohol at exp. RT: 3.715  
 FID1 A, Front Signal  
 Correlation: 1.00000  
 Residual Std. Dev.: 0.00000  
 Formula:  $y = mx$   
 m: 1.01294e-1  
 x: Amount Ratio  
 y: Area Ratio



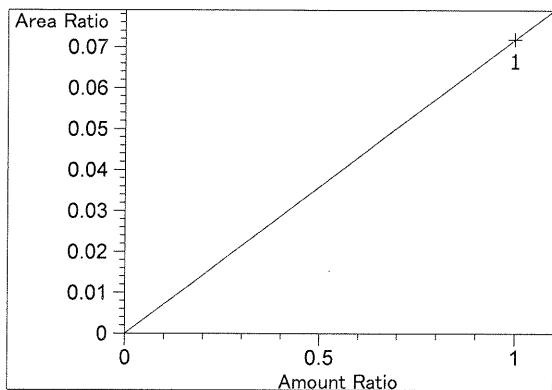
Ethanol at exp. RT: 4.176  
 FID2 B, Back Signal  
 Correlation: 0.99999 ✓  
 Residual Std. Dev.: 0.00206  
 Formula:  $y = mx$   
 m: 1.93329  
 x: Amount Ratio  
 y: Area Ratio

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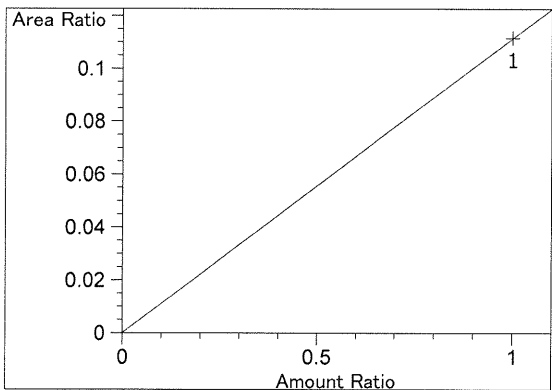




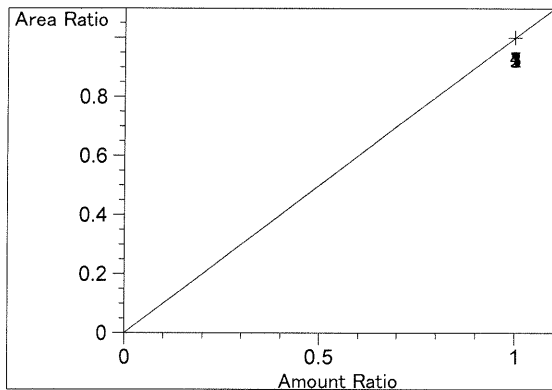
Acetone at exp. RT: 4.530  
FID1 A, Front Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 6.76580e-2  
x: Amount Ratio  
y: Area Ratio



Acetone at exp. RT: 4.549  
FID2 B, Back Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 7.18211e-2  
x: Amount Ratio  
y: Area Ratio

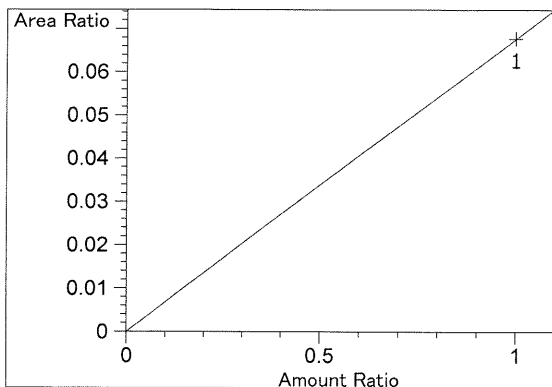


Isopropyl alcohol at exp. RT: 4.870  
FID2 B, Back Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 1.11555e-1  
x: Amount Ratio  
y: Area Ratio

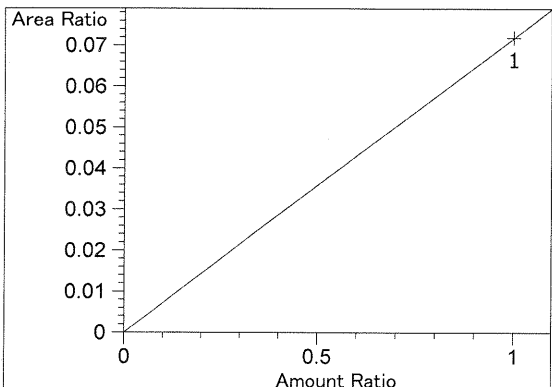


n-Propanol at exp. RT: 4.937  
FID1 A, Front Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 1.00000  
x: Amount Ratio  
y: Area Ratio

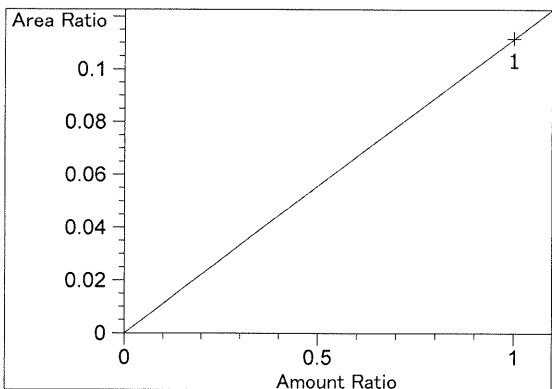
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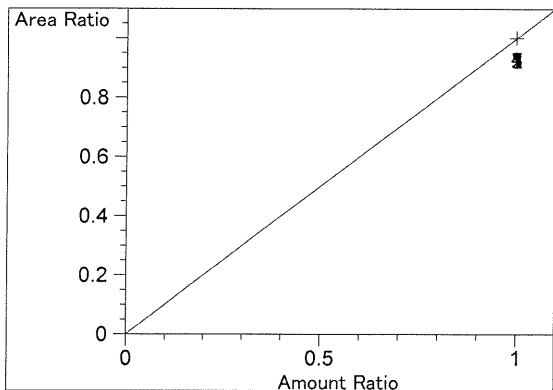
Acetone at exp. RT: 4.530  
FID1 A, Front Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m:  $6.76580e-2$   
x: Amount Ratio  
y: Area Ratio



Acetone at exp. RT: 4.549  
FID2 B, Back Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m:  $7.18211e-2$   
x: Amount Ratio  
y: Area Ratio

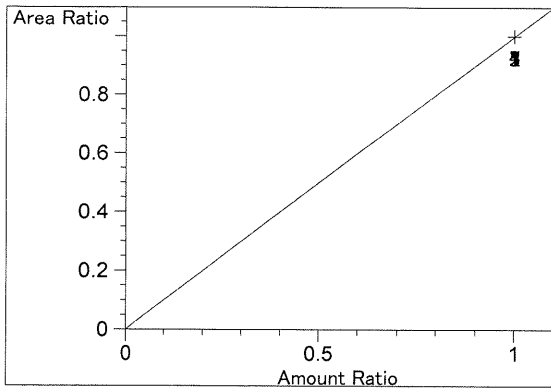


Isopropyl alcohol at exp. RT: 4.870  
FID2 B, Back Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m:  $1.11555e-1$   
x: Amount Ratio  
y: Area Ratio



n-Propanol at exp. RT: 4.937  
FID1 A, Front Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 1.00000  
x: Amount Ratio  
y: Area Ratio

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n-Propanol at exp. RT: 7.613  
FID2 B, Back Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 1.00000  
x: Amount Ratio  
y: Area Ratio

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

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS\_28.12.2018\_01.35.57\12-28-18cal.S  
Data directory path: C:\Chem32\1\Data\12-28-18calJJ  
Logbook: C:\Chem32\1\Data\12-28-18calJJ\12-28-18cal.LOG  
Sequence start: 12/28/2018 1:49:42 PM  
Sequence Operator: SYSTEM  
Operator: SYSTEM

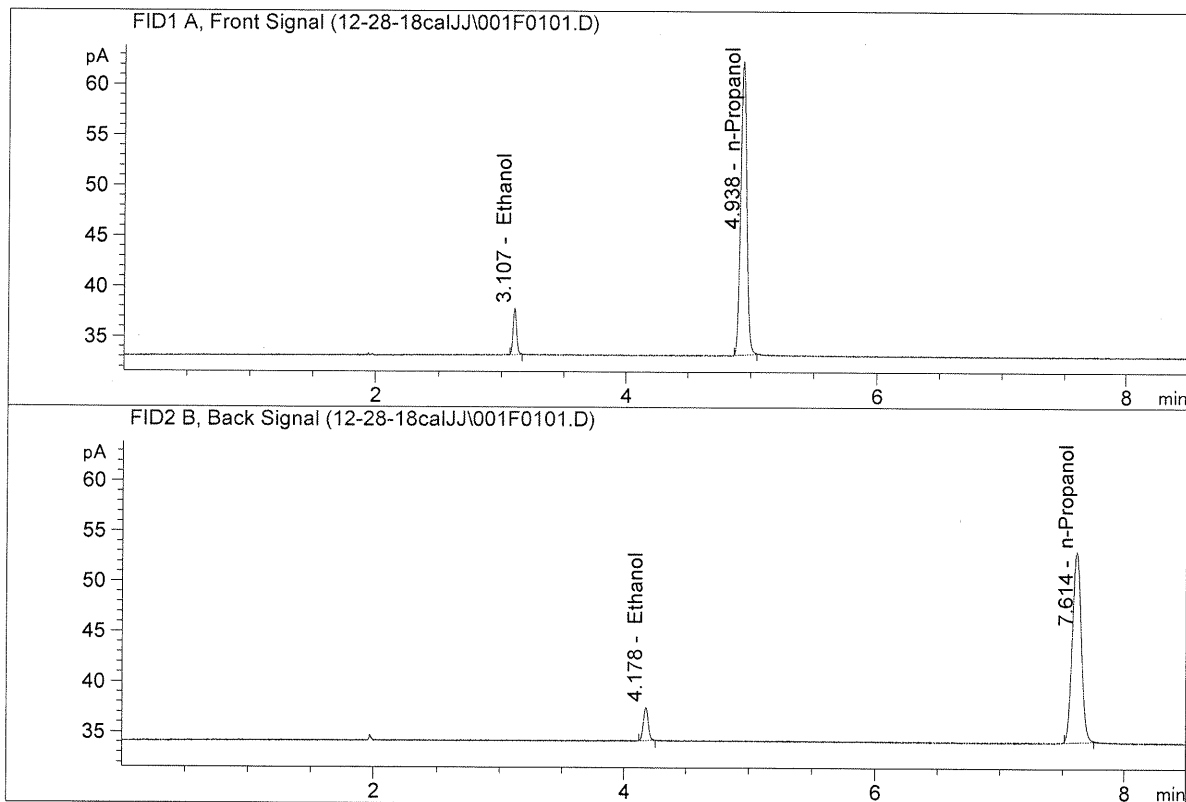
Method file name: C:\CHEM32\1\METHODS\ALCOHOL.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	# Cmp
1	1	1	0.05	-	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	blank	-	1.0000	006F0601.D		2

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ISP Forensic Services Blood Alcohol Report

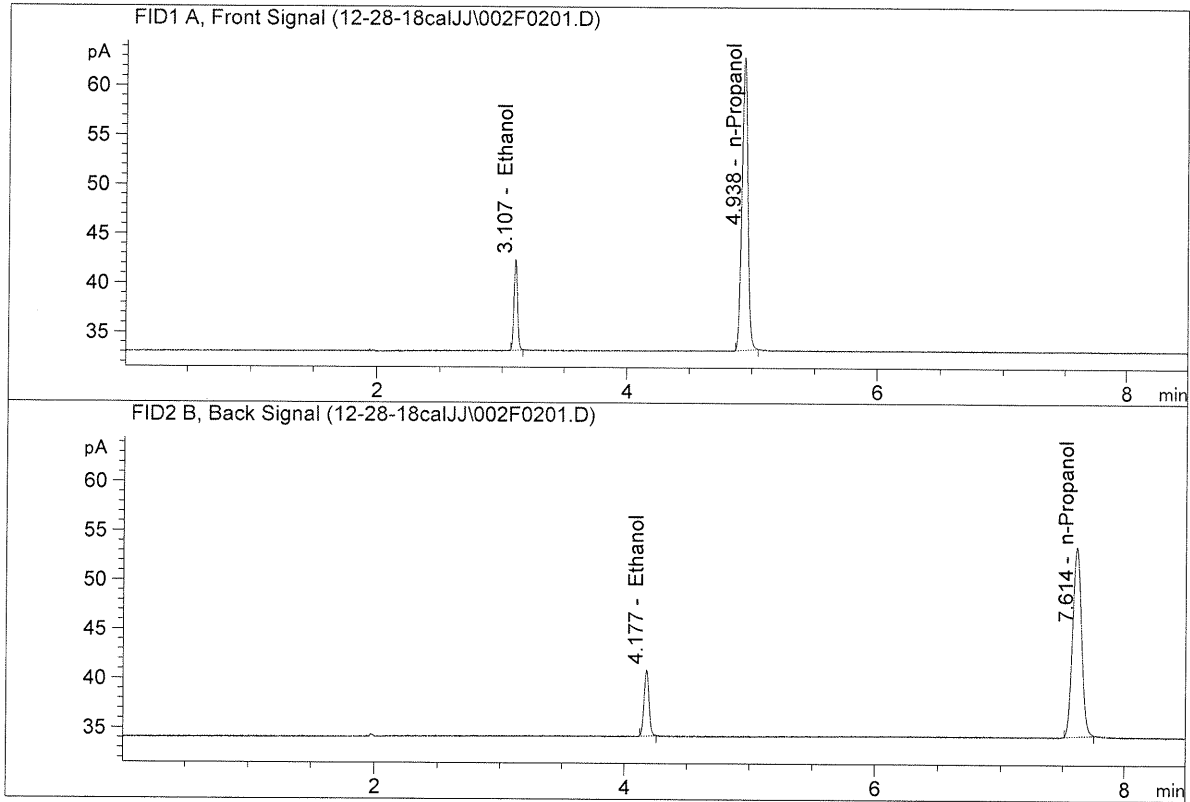
Sample Name : 0.05  
 Laboratory : Coeur d' Alene  
 Injection Date : Dec 28, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	9.04469	0.0500	g/100cc
2.	Ethanol	Column 2:	9.10649	0.0491	g/100cc
3.	n-Propanol	Column 1:	96.06255	1.0000	g/100cc
4.	n-Propanol	Column 2:	95.97466	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.100  
 Laboratory : Coeur d' Alene  
 Injection Date : Dec 28, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

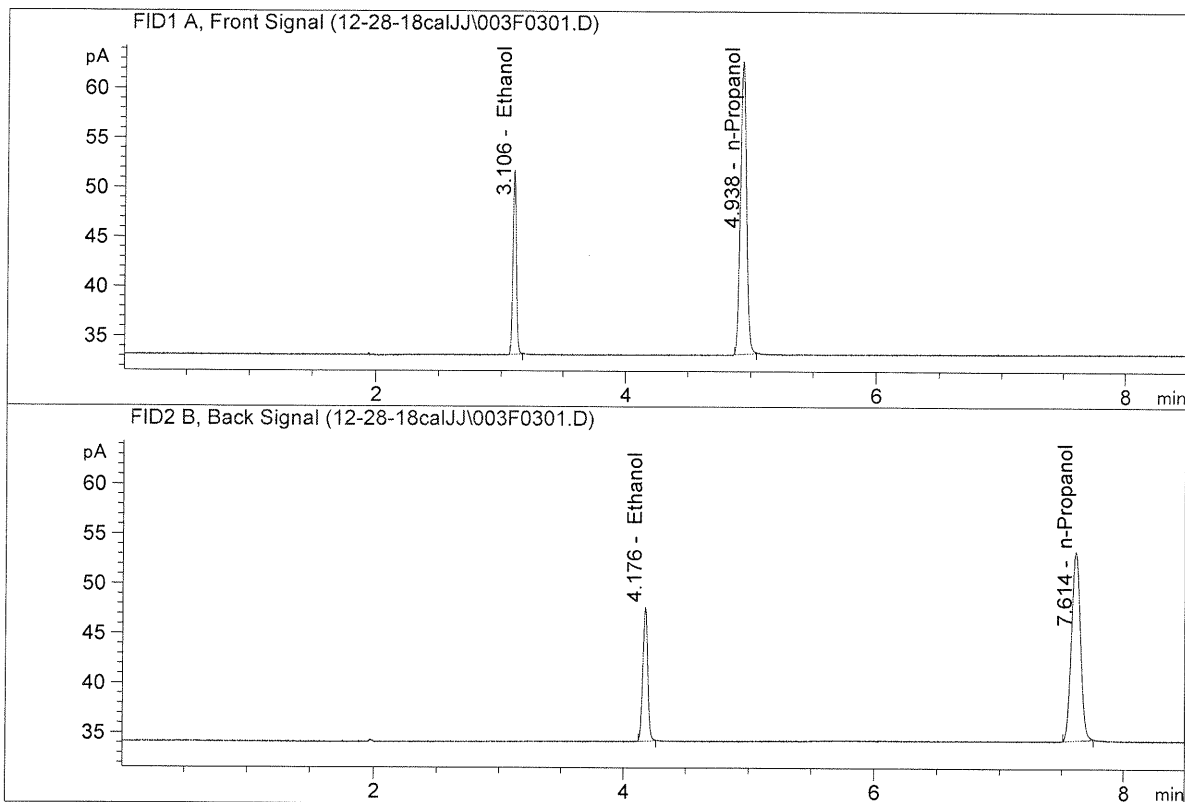


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.22615	0.0992	g/100cc
2.	Ethanol	Column 2:	18.42628	0.0986	g/100cc
3.	n-Propanol	Column 1:	97.63586	1.0000	g/100cc
4.	n-Propanol	Column 2:	96.68084	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : 0.200  
 Laboratory : Coeur d' Alene  
 Injection Date : Dec 28, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

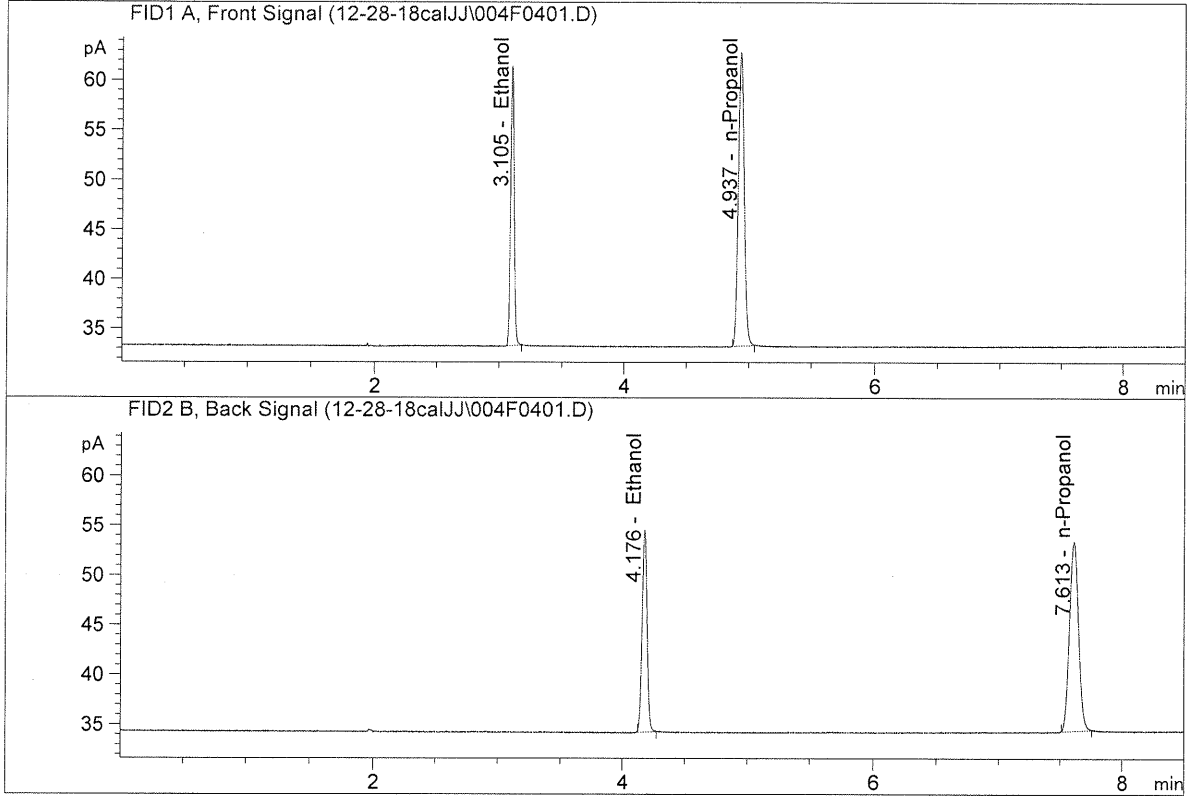


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	36.29511	0.1986	g/100cc
2.	Ethanol	Column 2:	36.88901	0.1990	g/100cc
3.	n-Propanol	Column 1:	97.10672	1.0000	g/100cc
4.	n-Propanol	Column 2:	95.88269	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : 0.300  
 Laboratory : Coeur d' Alene  
 Injection Date : Dec 28, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



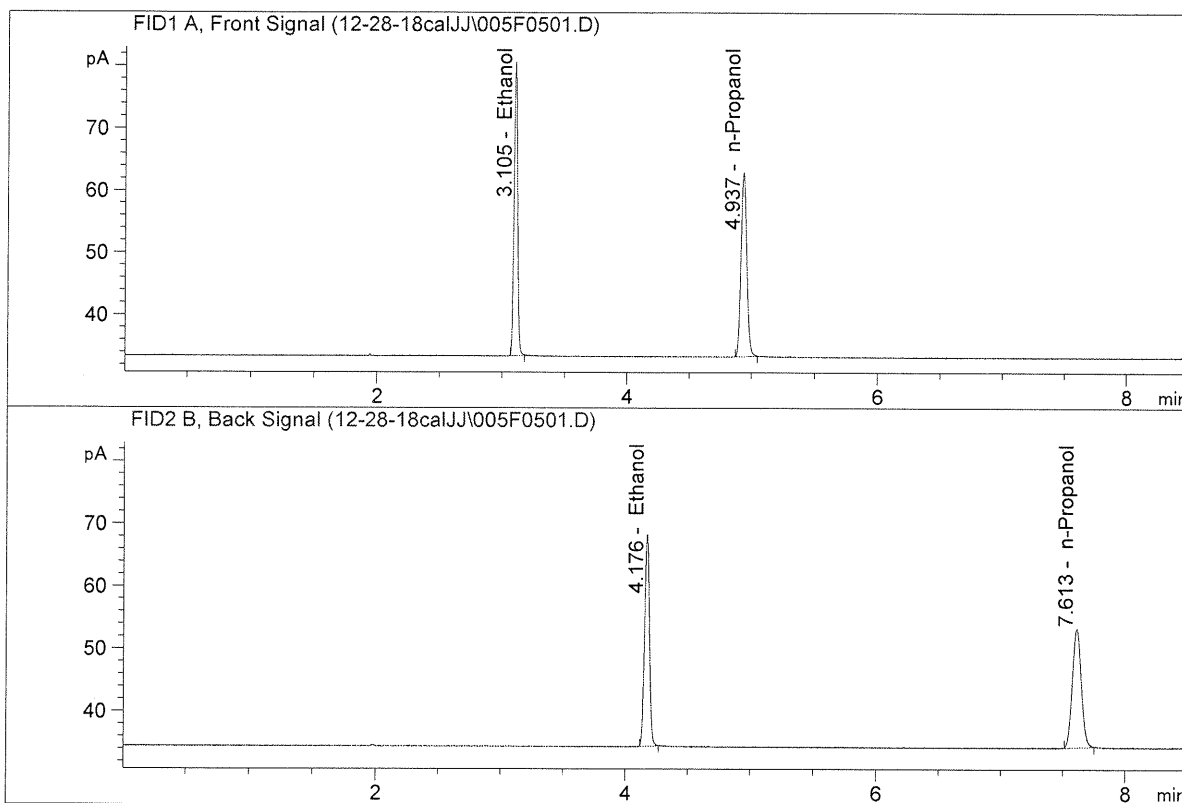
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	54.95046	0.3005	g/100cc
2.	Ethanol	Column 2:	55.73503	0.3008	g/100cc
3.	n-Propanol	Column 1:	97.15501	1.0000	g/100cc
4.	n-Propanol	Column 2:	95.85242	1.0000	g/100cc

99



ISP Forensic Services Blood Alcohol Report

Sample Name : 0.500  
 Laboratory : Coeur d' Alene  
 Injection Date : Dec 28, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

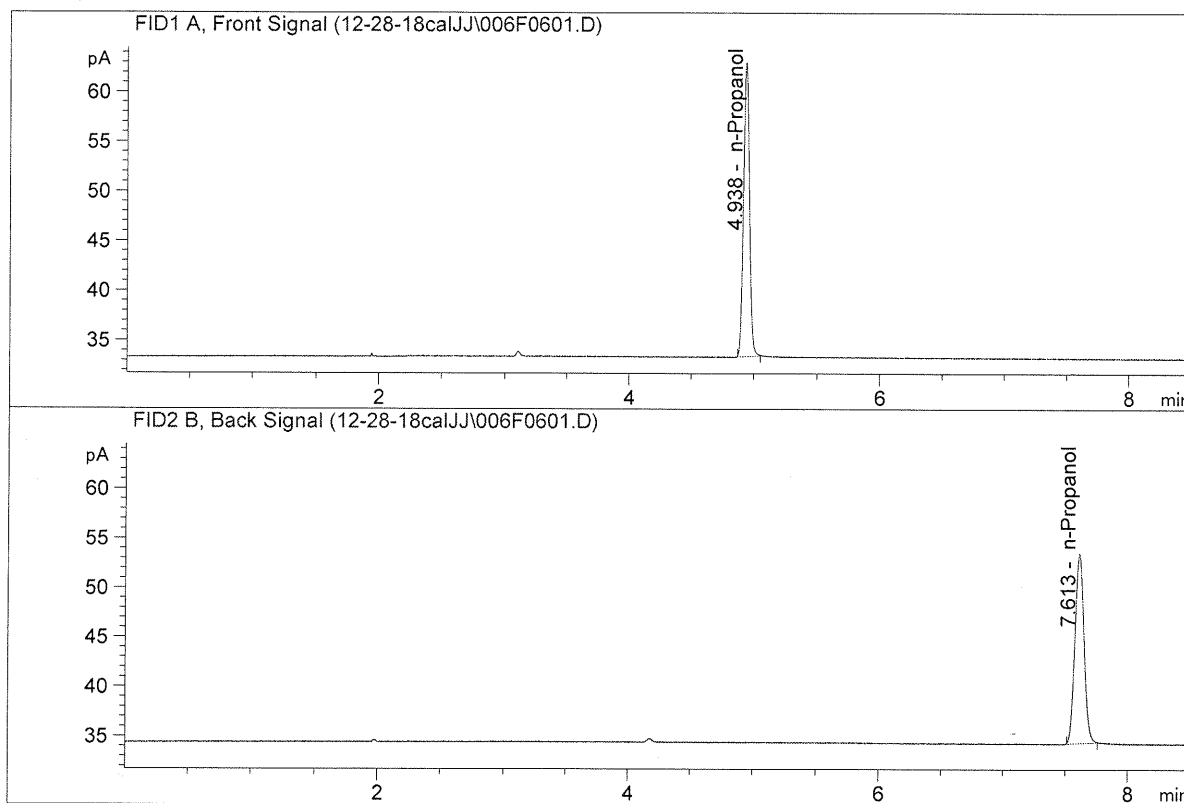


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	91.67623	0.5004	g/100cc
2.	Ethanol	Column 2:	92.72935	0.5003	g/100cc
3.	n-Propanol	Column 1:	97.33640	1.0000	g/100cc
4.	n-Propanol	Column 2:	95.86896	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : blank  
 Laboratory : Coeur d' Alene  
 Injection Date : Dec 28, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

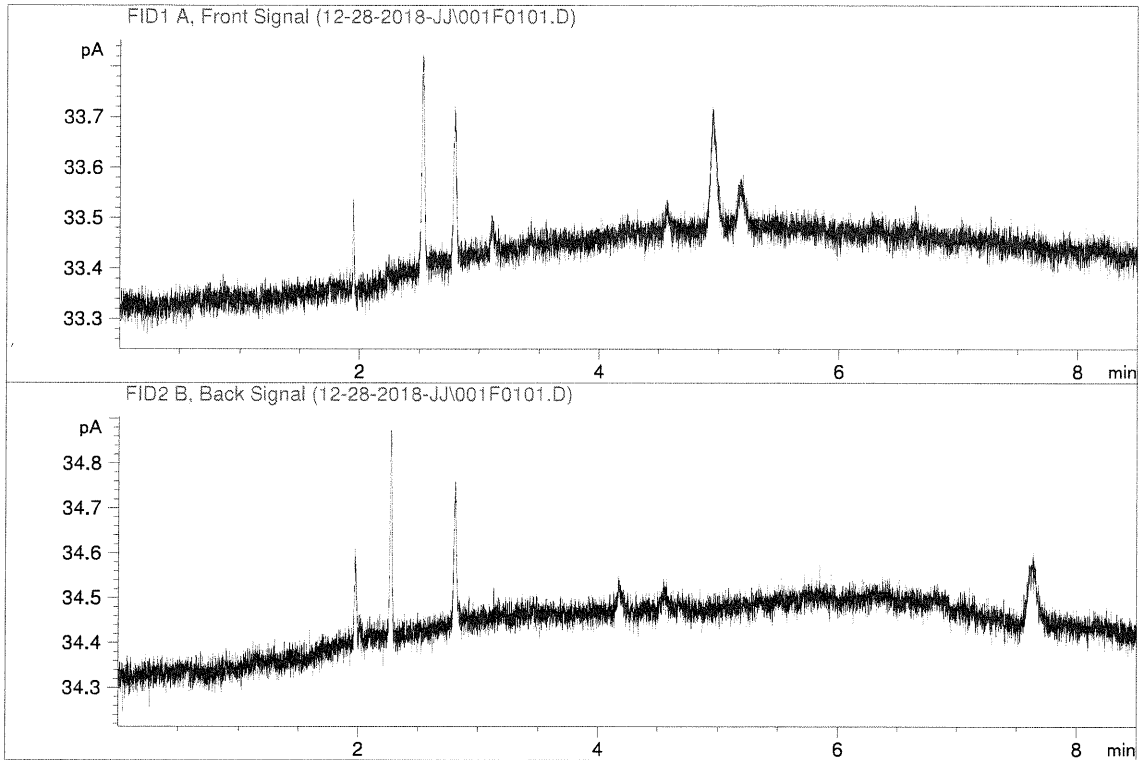


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	97.21992	1.0000	g/100cc
4.	n-Propanol	Column 2:	96.36391	1.0000	g/100cc

97

ISP Forensic Services Blood Alcohol Report

Sample Name : water  
 Laboratory : Coeur d' Alene  
 Injection Date : Dec 28, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

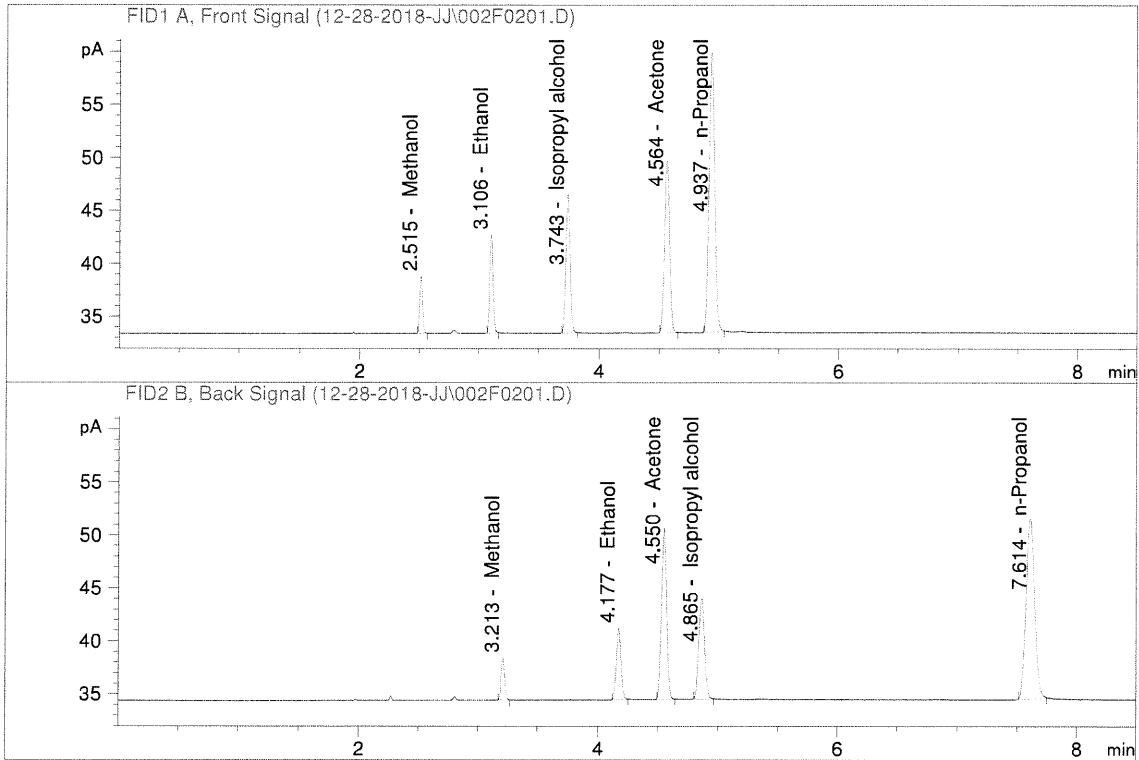


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	0.00000	0.0000	g/100cc
4.	n-Propanol	Column 2:	0.00000	0.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : VOL MIX FN-06041502  
 Laboratory : Coeur d' Alene  
 Injection Date : Dec 28, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

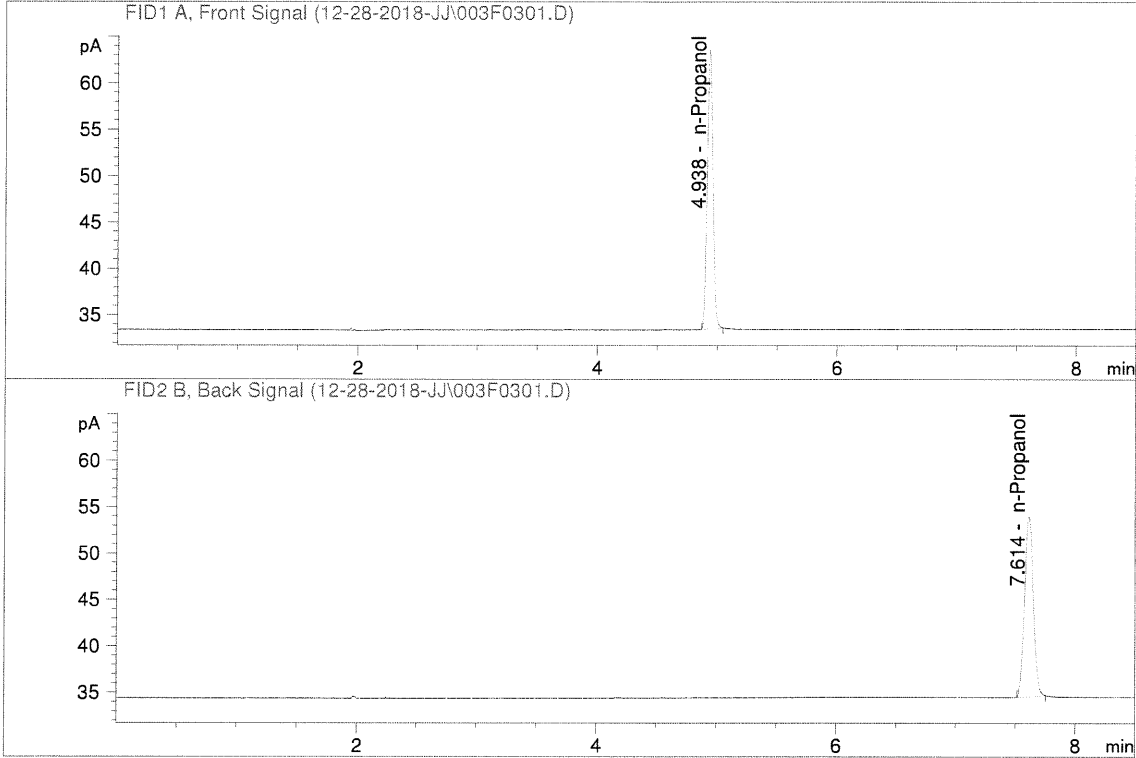


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.16008	0.1116	g/100cc
2.	Ethanol	Column 2:	18.37808	0.1107	g/100cc
3.	n-Propanol	Column 1:	86.44479	1.0000	g/100cc
4.	n-Propanol	Column 2:	85.87026	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK  
 Laboratory : Coeur d' Alene  
 Injection Date : Dec 28, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



#	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:	98.60551	1.0000	g/100cc
4.	n-Propanol	Column 2:	97.90189	1.0000	g/100cc

99

## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1-A

Analysis Date(s): 28 Dec 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0776	0.0768	0.0008	0.0772	0.0771	
(g/100cc)	0.0776	0.0765	0.0011	0.0770		

### 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: ML600HC11379

### 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

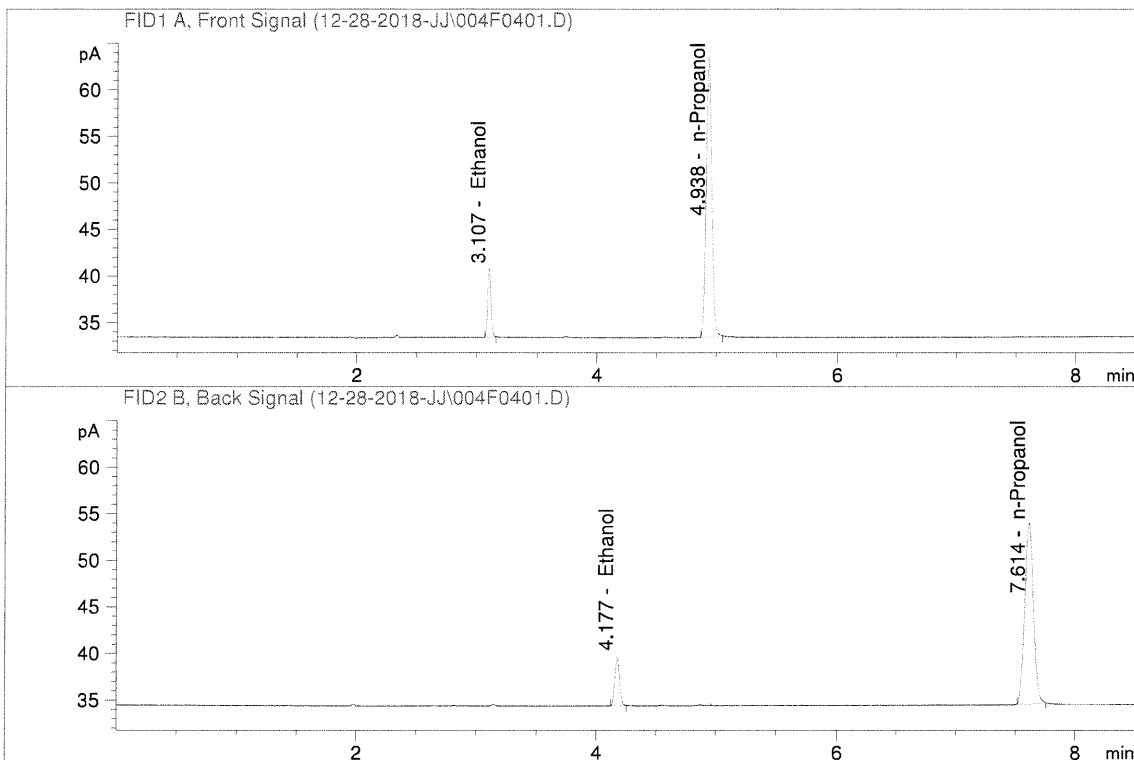
	<b>Reported Result</b> <hr style="border-top: 1px dashed black;"/> 0.077	
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*Calibration and control data are stored centrally.*

99

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-A  
 Laboratory : Coeur d' Alene  
 Injection Date : Dec 28, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

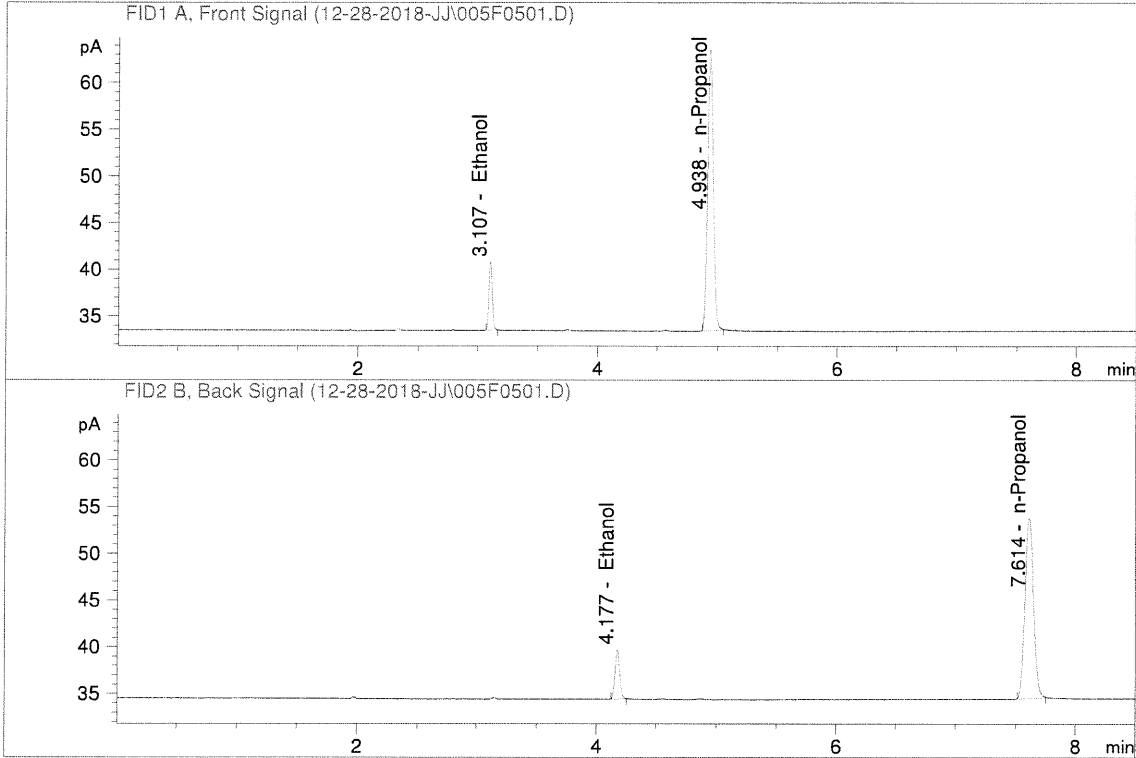


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.42830	0.0776	g/100cc
2.	Ethanol	Column 2:	14.52734	0.0768	g/100cc
3.	n-Propanol	Column 1:	98.79744	1.0000	g/100cc
4.	n-Propanol	Column 2:	97.79218	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-B  
 Laboratory : Coeur d' Alene  
 Injection Date : Dec 28, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.38617	0.0776	g/100cc
2.	Ethanol	Column 2:	14.39197	0.0765	g/100cc
3.	n-Propanol	Column 1:	98.54276	1.0000	g/100cc
4.	n-Propanol	Column 2:	97.37135	1.0000	g/100cc



## VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: 0.08 FN04171701-A**

**Analysis Date(s): 28 Dec 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0819	0.0807	0.0012	0.0813	0.0807	
(g/100cc)	0.0808	0.0795	0.0013	0.0801		

**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: ML600HC11379

**Reporting of Results**

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

Overall Mean (g/100cc)	Low	High	5% of Mean
<b>0.080</b>	<b>0.076</b>	<b>0.084</b>	<b>0.004</b>

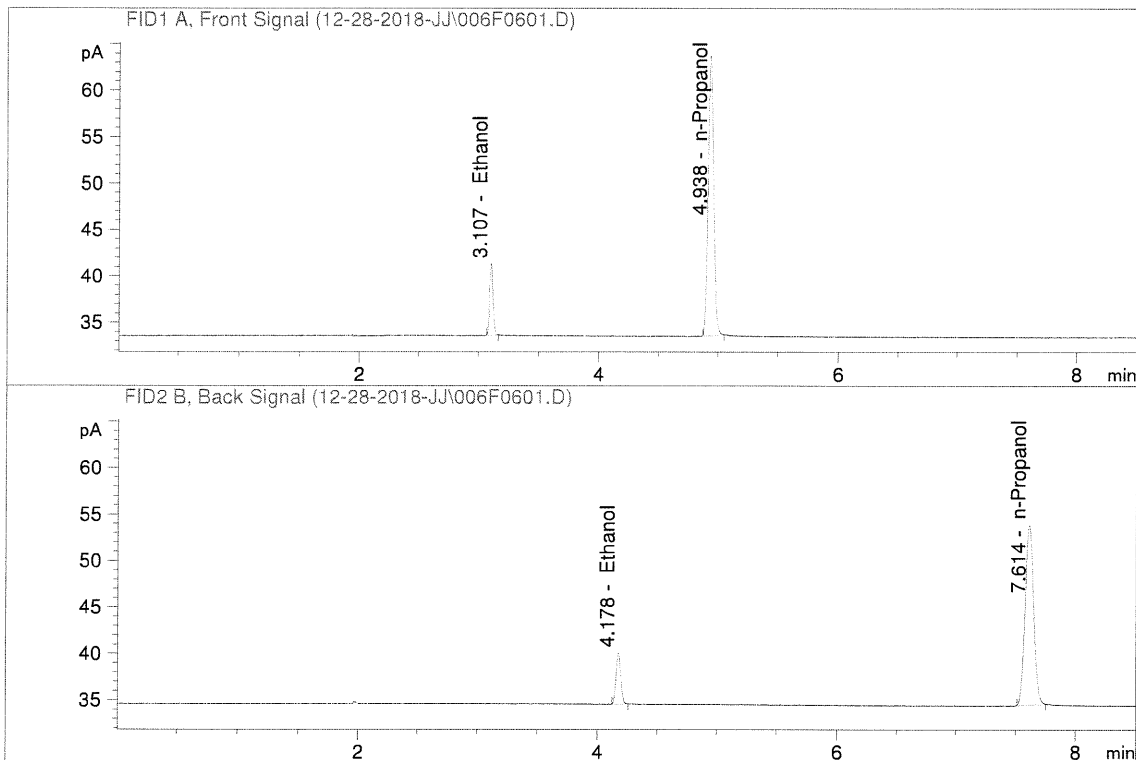
	<b>Reported Result</b>	
	<b>0.080</b>	

*Calibration and control data are stored centrally.*

99

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-A  
 Laboratory : Coeur d' Alene  
 Injection Date : Dec 28, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

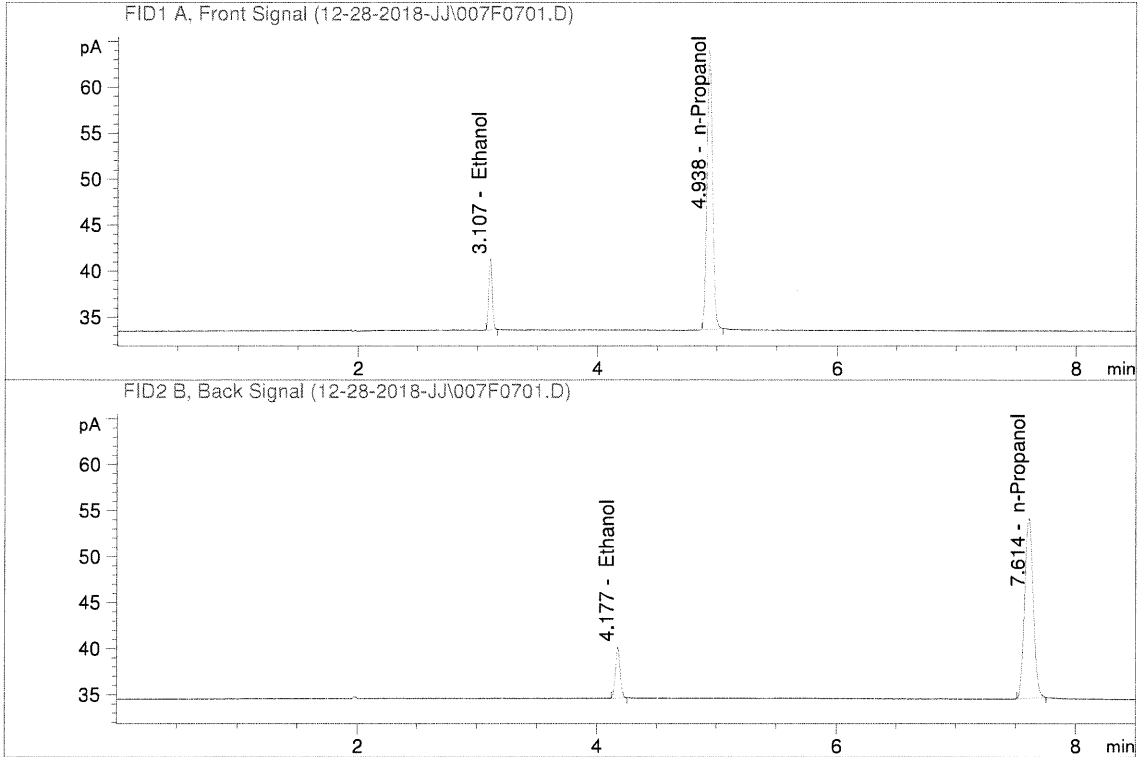


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	15.24613	0.0819	g/100cc
2.	Ethanol	Column 2:	15.22617	0.0807	g/100cc
3.	n-Propanol	Column 1:	98.89500	1.0000	g/100cc
4.	n-Propanol	Column 2:	97.62929	1.0000	g/100cc

97

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-B  
 Laboratory : Coeur d' Alene  
 Injection Date : Dec 28, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	15.15387	0.0808	g/100cc
2.	Ethanol	Column 2:	15.15516	0.0795	g/100cc
3.	n-Propanol	Column 1:	99.67826	1.0000	g/100cc
4.	n-Propanol	Column 2:	98.59527	1.0000	g/100cc

99

## VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.:** QC-2-A

**Analysis Date(s):** 28 Dec 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1999	0.1983	0.0016	0.1991	0.1994	
(g/100cc)	0.2010	0.1986	0.0024	0.1998		

**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: ML600HC11379

**Reporting of Results**

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

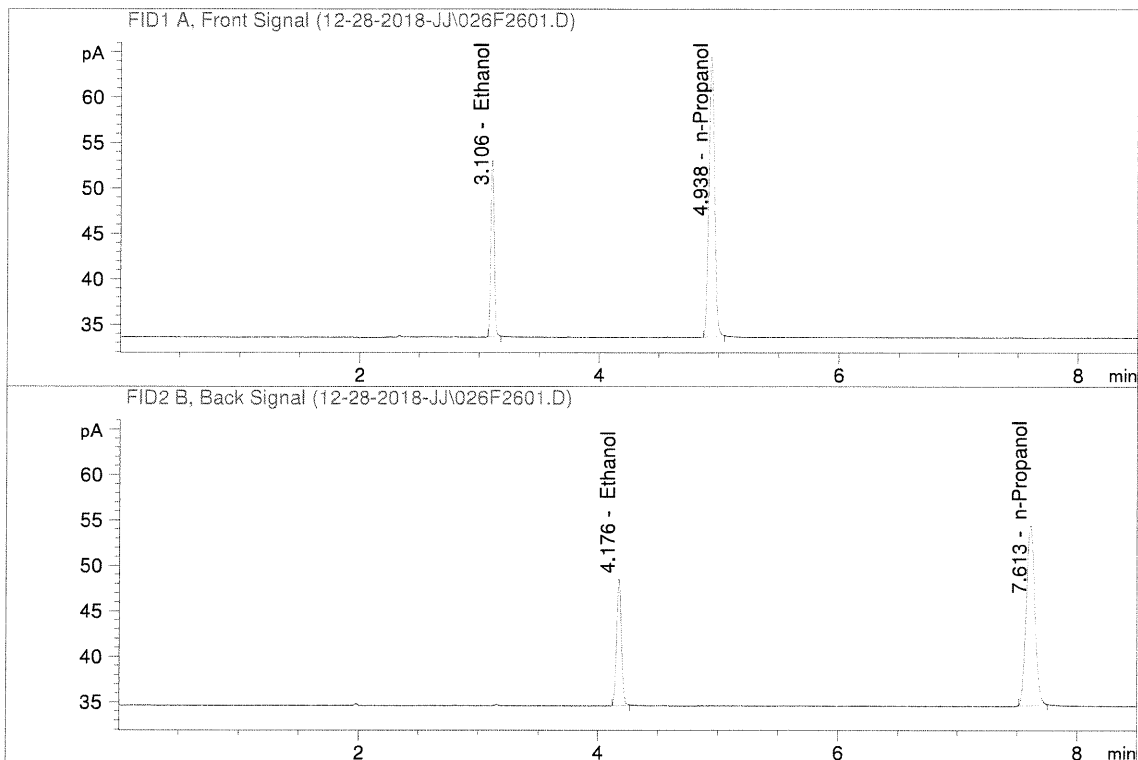
Overall Mean (g/100cc)	Low	High	5% of Mean
<b>0.199</b>	<b>0.189</b>	<b>0.209</b>	<b>0.010</b>

	<b>Reported Result</b>	
	<b>0.199</b>	

*Calibration and control data are stored centrally.*

ISP Forensic Services Blood Alcohol Report

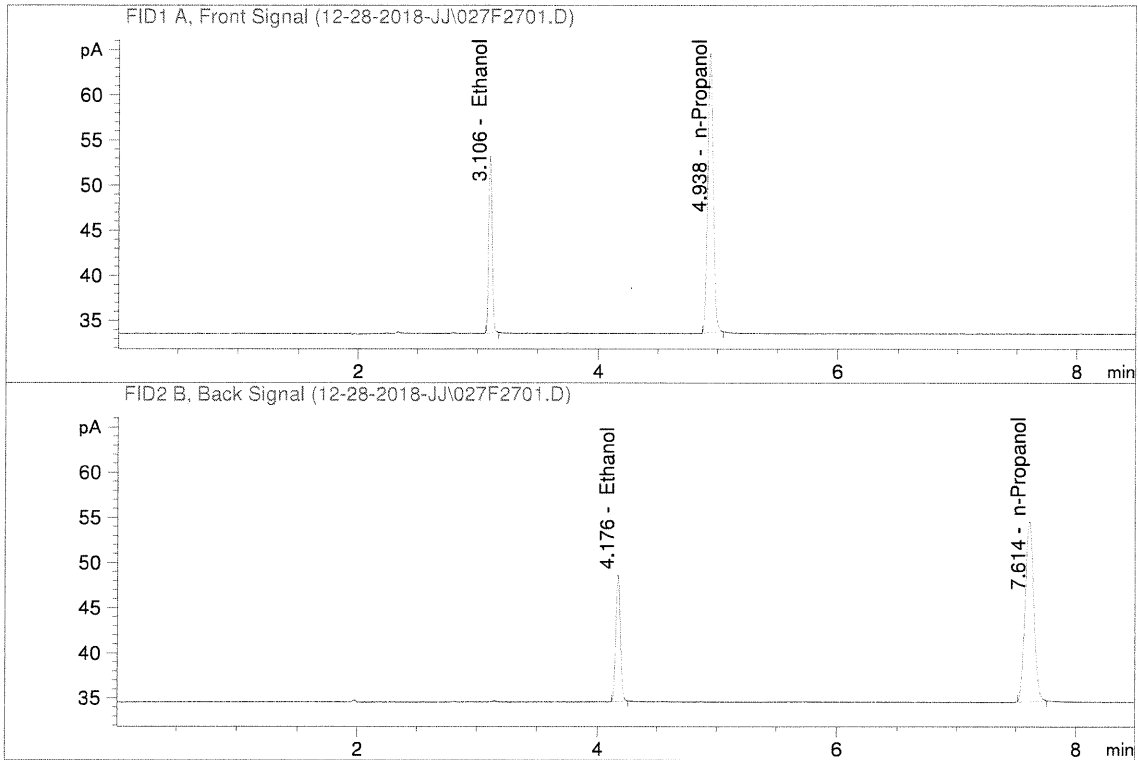
Sample Name : QC-2-A  
 Laboratory : Coeur d' Alene  
 Injection Date : Dec 28, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	38.05869	0.1999	g/100cc
2.	Ethanol	Column 2:	38.23171	0.1983	g/100cc
3.	n-Propanol	Column 1:	101.16460	1.0000	g/100cc
4.	n-Propanol	Column 2:	99.71247	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-2-B  
 Laboratory : Coeur d' Alene  
 Injection Date : Dec 28, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	38.47450	0.2010	g/100cc
2.	Ethanol	Column 2:	38.48683	0.1986	g/100cc
3.	n-Propanol	Column 1:	101.69225	1.0000	g/100cc
4.	n-Propanol	Column 2:	100.25309	1.0000	g/100cc

99

## VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.:** QC-1-A

**Analysis Date(s):** 28 Dec 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0789	0.0779	0.0010	0.0784	0.0784	
(g/100cc)	0.0789	0.0782	0.0007	0.0785		

**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: ML600HC11379

**Reporting of Results**

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

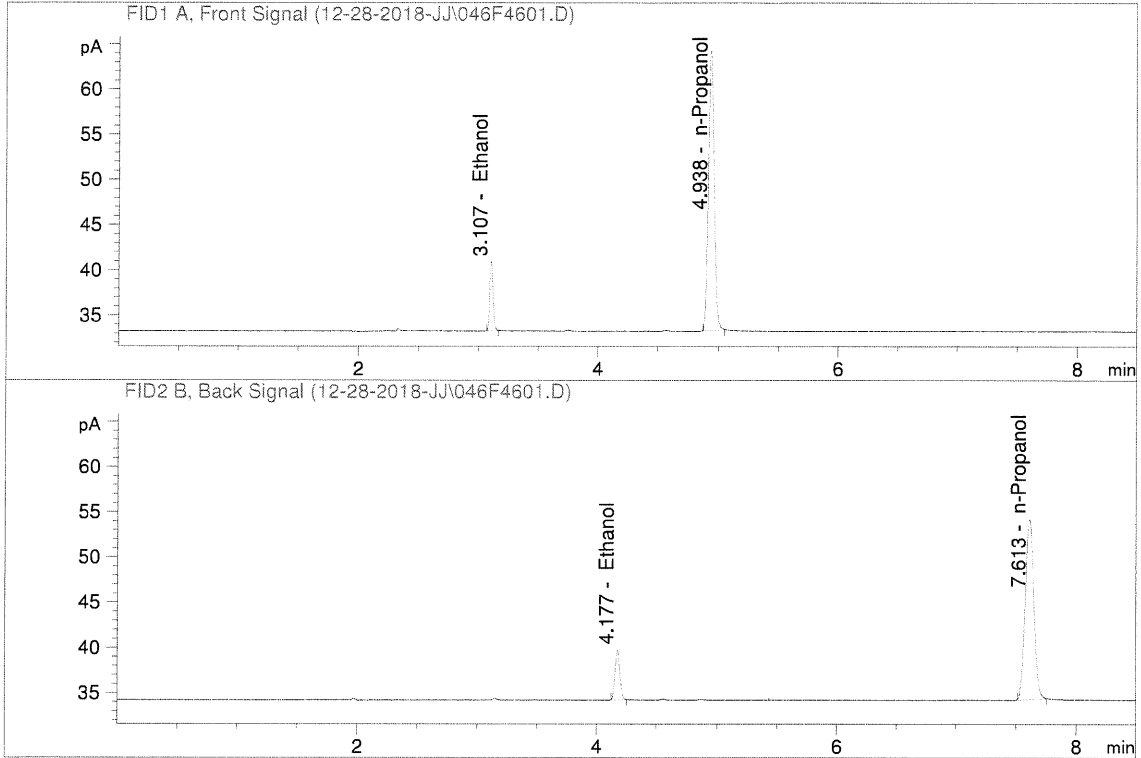
Overall Mean (g/100cc)	Low	High	5% of Mean
<b>0.078</b>	<b>0.074</b>	<b>0.082</b>	<b>0.004</b>

	<b>Reported Result</b>	
	<b>0.078</b>	

*Calibration and control data are stored centrally.*

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-A  
 Laboratory : Coeur d' Alene  
 Injection Date : Dec 28, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



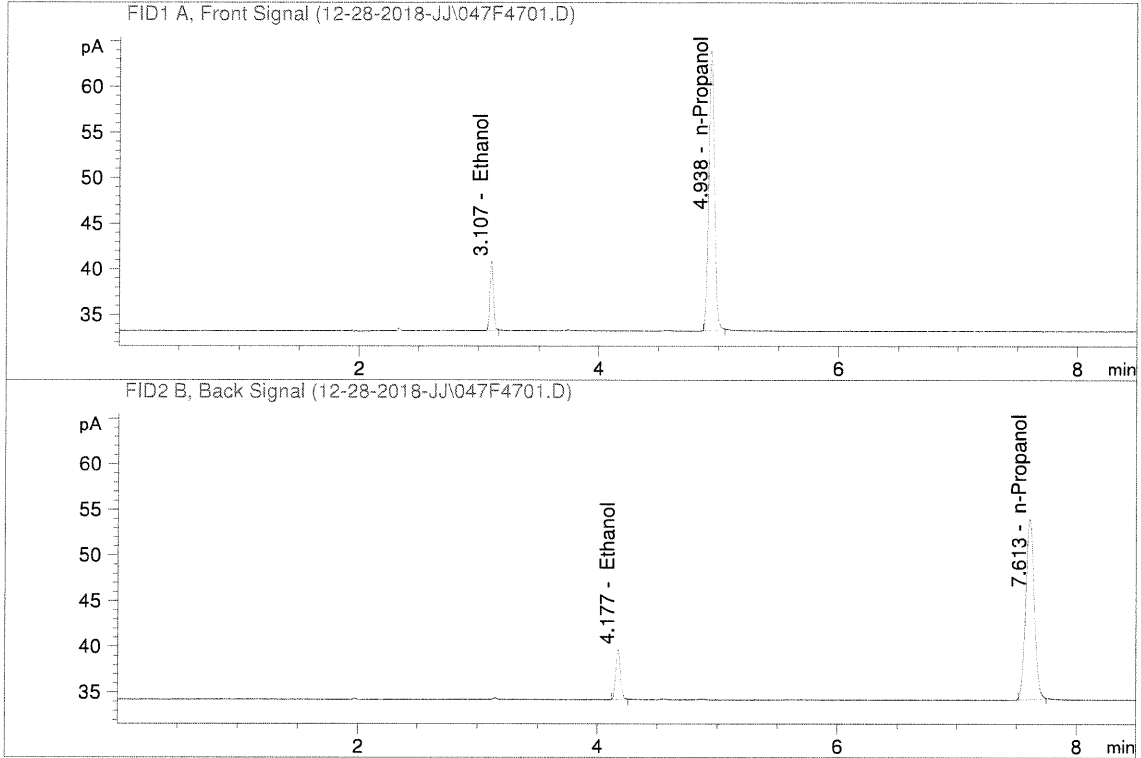
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	15.11539	0.0789	g/100cc
2.	Ethanol	Column 2:	15.12811	0.0779	g/100cc
3.	n-Propanol	Column 1:	101.81403	1.0000	g/100cc
4.	n-Propanol	Column 2:	100.39283	1.0000	g/100cc

99



ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-B  
 Laboratory : Coeur d' Alene  
 Injection Date : Dec 28, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

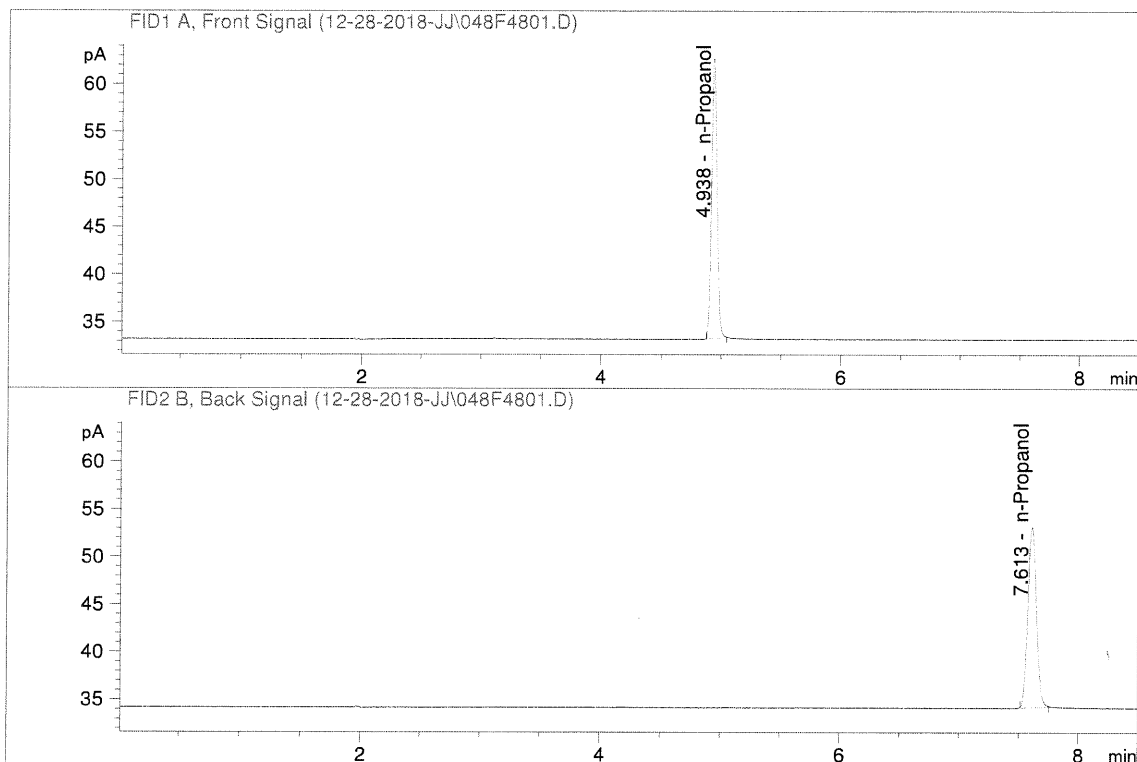


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.97884	0.0789	g/100cc
2.	Ethanol	Column 2:	15.03607	0.0782	g/100cc
3.	n-Propanol	Column 1:	100.93140	1.0000	g/100cc
4.	n-Propanol	Column 2:	99.42326	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK  
 Laboratory : Coeur d' Alene  
 Injection Date : Dec 29, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



#	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:	96.77547	1.0000	g/100cc
4.	n-Propanol	Column 2:	95.53851	1.0000	g/100cc

99