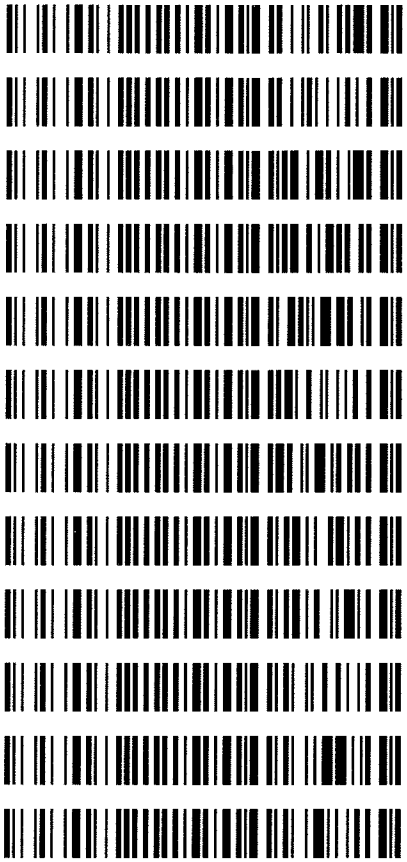
APPROVED
By John Garner at 11:49 am, Mar 27, 2019

3/23/2019

Worklist: 3131

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
C2019-0455	1	143980	Alcohol Analysis
C2019-0456	1	143983	Alcohol Analysis
C2019-0459	1	144078	Alcohol Analysis
C2019-0461	1	144085	Alcohol Analysis
C2019-0471	1	144269	Alcohol Analysis
C2019-0485	1	144612	Alcohol Analysis
C2019-0498	1	145309	Alcohol Analysis
C2019-0502	1	145330	Alcohol Analysis
C2019-0504	1	145336	Alcohol Analysis
C2019-0527	1	145710	Alcohol Analysis
C2019-0530	1	145723	Alcohol Analysis
C2019-0531	1	145726	Alcohol Analysis



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Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB ~~5034~~ 600A Liquid Processor/Dilutor Serial Number: ML600HC11379

Volatiles Quality Assurance Controls **Run Date(s): 3/22/19**

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jan-22	1801036	0.0812	0.0731-0.0893	0.0747 g/100cc
					0.0756 g/100cc
					g/100cc
Level 2	Jan-22	1803028	0.2035	0.1832-0.2238	0.1908 g/100cc
					~~0.1989~~ g/100cc
					g/100cc

Multi-Component mixture:	Sep-20	Lot #	FN06041502	OK
Curve Fit:	**Column 1**	0.99999	**Column2**	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	0.0499	0.0491	0.0008	0.0495
100	0.100	0.090 - 0.110	0.1008	0.0995	0.0013	0.1001
200	0.200	0.180 - 0.220	0.2006	0.1991	0.0015	0.1998
300	0.300	0.270 - 0.330	0.3025	0.3018	0.0007	0.3021
500	0.500	0.450 - 0.550	0.4981	0.4994	0.0013	0.4987

Aqueous Controls

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

Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_22.03.2019_02.32.46\3-22-2019.S
Data directory path: C:\Chem32\1\Data\3-22-2019-JJ
Logbook: C:\Chem32\1\Data\3-22-2019-JJ\3-22-2019.LOG
Sequence start: 3/22/2019 2:46:31 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	water	-	1.0000	001F0101.D		2
2	2	1	VOL MIX FN-06041	-	1.0000	002F0201.D		10
3	3	1	ISTD BLANK	-	1.0000	003F0301.D		2
4	4	1	QC-1-A	-	1.0000	004F0401.D		4
5	5	1	QC-1-B	-	1.0000	005F0501.D		4
6	6	1	0.08 FN04171701-	-	1.0000	006F0601.D		4
7	7	1	0.08 FN04171701-	-	1.0000	007F0701.D		4
8	8	1	C2019-0455-1-A	-	1.0000	008F0801.D		2
9	9	1	C2019-0455-1-B	-	1.0000	009F0901.D		2
10	10	1	C2019-0456-1-A	-	1.0000	010F1001.D		4
11	11	1	C2019-0456-1-B	-	1.0000	011F1101.D		4
12	12	1	C2019-0459-1-A	-	1.0000	012F1201.D		4
13	13	1	C2019-0459-1-B	-	1.0000	013F1301.D		4
14	14	1	C2019-0461-1-A	-	1.0000	014F1401.D		2
15	15	1	C2019-0461-1-B	-	1.0000	015F1501.D		2
16	16	1	C2019-0471-1-A	-	1.0000	016F1601.D		4
17	17	1	C2019-0471-1-B	-	1.0000	017F1701.D		4
18	18	1	C2019-0485-1-A	-	1.0000	018F1801.D		4
19	19	1	C2019-0485-1-B	-	1.0000	019F1901.D		4
20	20	1	C2019-0498-1-A	-	1.0000	020F2001.D		4
21	21	1	C2019-0498-1-B	-	1.0000	021F2101.D		4
22	22	1	C2019-0502-1-A	-	1.0000	022F2201.D		4
23	23	1	C2019-0502-1-B	-	1.0000	023F2301.D		4
24	24	1	C2019-0504-1-A	-	1.0000	024F2401.D		4
25	25	1	C2019-0504-1-B	-	1.0000	025F2501.D		4
26	26	1	QC-1-A	-	1.0000	026F2601.D		4
27	27	1	QC-1-B	-	1.0000	027F2701.D		4
28	28	1	C2019-0527-1-A	-	1.0000	028F2801.D		4
29	29	1	C2019-0527-1-B	-	1.0000	029F2901.D		4
30	30	1	C2019-0530-1-A	-	1.0000	030F3001.D		2
31	31	1	C2019-0530-1-B	-	1.0000	031F3101.D		2
32	32	1	C2019-0531-1-A	-	1.0000	032F3201.D		4
33	33	1	C2019-0531-1-B	-	1.0000	033F3301.D		4
34	34	1	QC-2-A	-	1.0000	034F3401.D		4
35	35	1	QC-2-B	-	1.0000	035F3501.D		4
36	36	1	ISTD BLANK	-	1.0000	036F3601.D		2
37	37	1	water	-	1.0000	037F3701.D		0

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Calibration Table

General Calibration Setting

Calib. Data Modified : Friday, March 22, 2019 2:23:01 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

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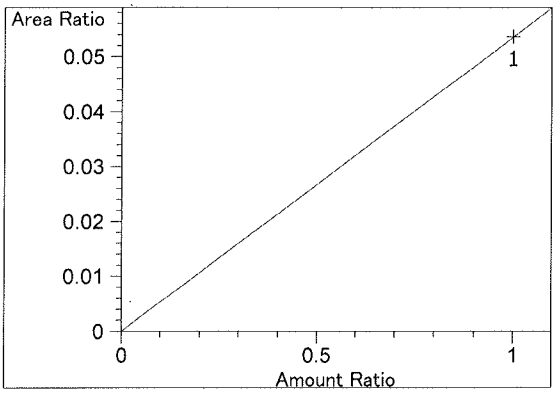
RT	Sig	Lvl	Amount [g/100cc]	Area	Rsp.Factor	Ref	ISTD	#	Compound
2.000	2	1	1.00000	5.00000	2.00000e-1	No	No	2	Difluoroethane
2.000	1	1	1.00000	5.00000	2.00000e-1	No	No	1	Difluoroethane
2.494	1	1	1.00000	3.69669	2.70512e-1	No	No	1	Methanol
2.772	1	1	1.00000	3.19311	3.13174e-1	No	No	1	Acetaldehyde
2.797	2	1	1.00000	3.10575	3.21983e-1	No	No	2	Acetaldehyde
3.105	1	1	5.00000e-2	9.48939	5.26904e-3	No	No	1	Ethanol
		2	1.00000e-1	19.47228	5.13550e-3				
		3	2.00000e-1	38.97078	5.13205e-3				
		4	3.00000e-1	58.58807	5.12050e-3				
		5	5.00000e-1	97.20175	5.14394e-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	9.12949	5.47676e-3	No	No	2	Ethanol
		2	1.00000e-1	18.84558	5.30628e-3				
		3	2.00000e-1	37.83263	5.28644e-3				
		4	3.00000e-1	57.15186	5.24917e-3				
		5	5.00000e-1	95.21478	5.25129e-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
4.938	1	1	1.00000	97.10884	1.02977e-2	No	Yes	1	n-Propanol
		2	1.00000	98.69845	1.01319e-2				
		3	1.00000	99.28555	1.00720e-2				
		4	1.00000	99.00155	1.01009e-2				
		5	1.00000	99.73427	1.00266e-2				
7.614	2	1	1.00000	93.27022	1.07215e-2	No	Yes	2	n-Propanol
		2	1.00000	95.06167	1.05195e-2				
		3	1.00000	95.31416	1.04916e-2				
		4	1.00000	94.99987	1.05263e-2				
		5	1.00000	95.65314	1.04544e-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: 5.36077e-2
x: Amount Ratio
y: Area Ratio

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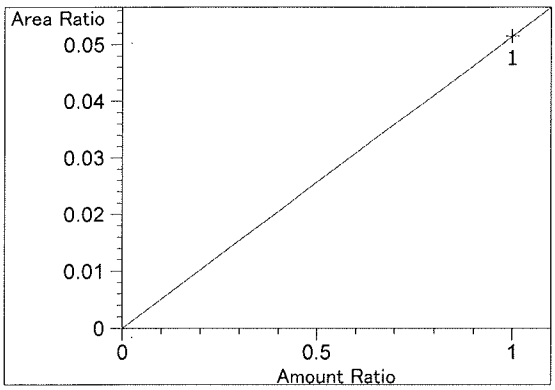
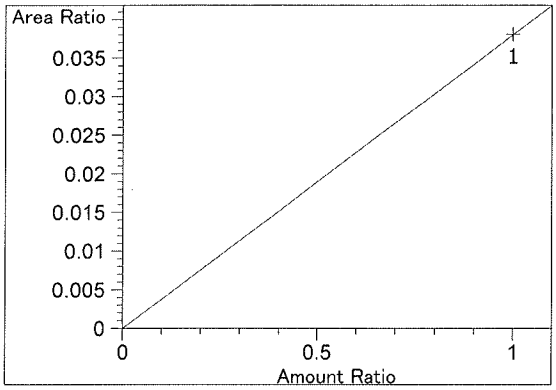
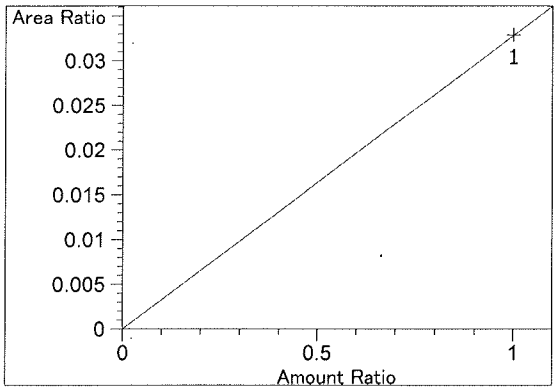


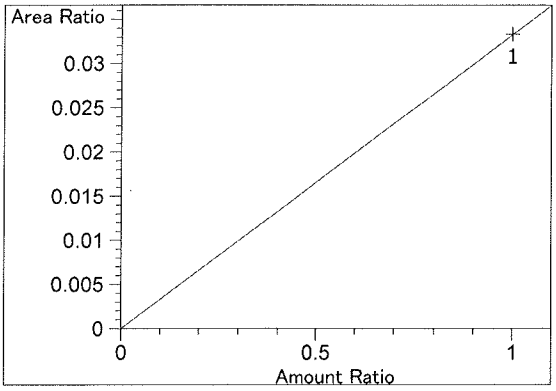
Difluoroethane at exp. RT: 2.000
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 5.14886e-2
x: Amount Ratio
y: Area Ratio



Methanol at exp. RT: 2.494
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 3.80675e-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: 3.28818e-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: 3.32984e-2
x: Amount Ratio
y: Area Ratio

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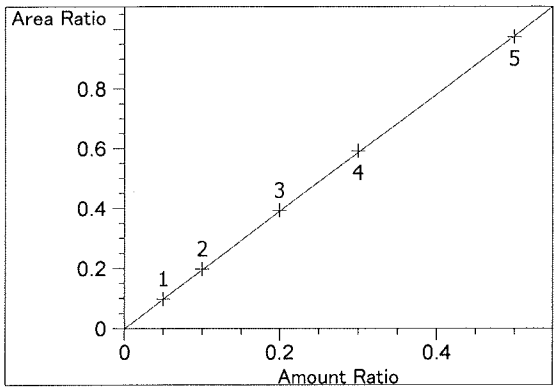
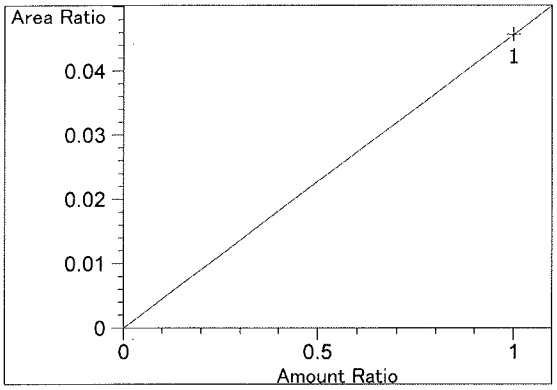
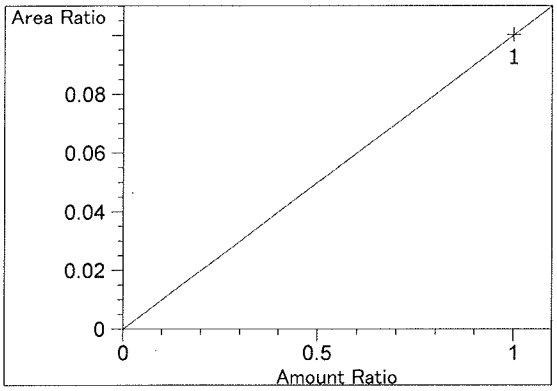


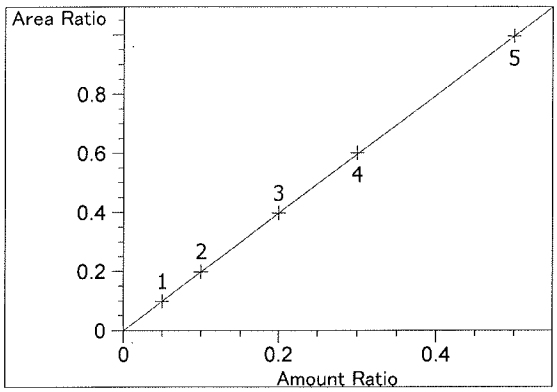
Ethanol at exp. RT: 3.105
FID1 A, Front Signal
Correlation: 0.99999 ✓
Residual Std. Dev.: 0.00320
Formula: y = mx
m: 1.95658
x: Amount Ratio
y: Area Ratio



Methanol at exp. RT: 3.211
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 4.56804e-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: 1.00203e-1
x: Amount Ratio
y: Area Ratio



Ethanol at exp. RT: 4.176
FID2 B, Back Signal
Correlation: 0.99999 ✓
Residual Std. Dev.: 0.00234
Formula: y = mx
m: 1.99310
x: Amount Ratio
y: Area Ratio

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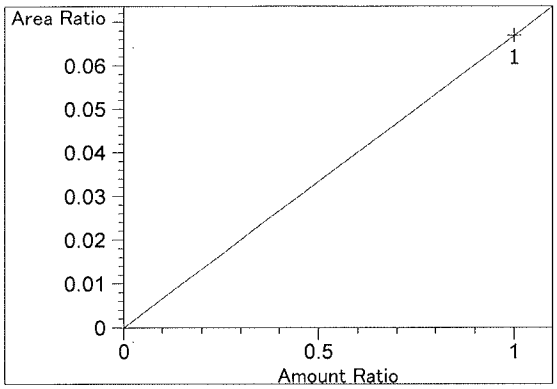
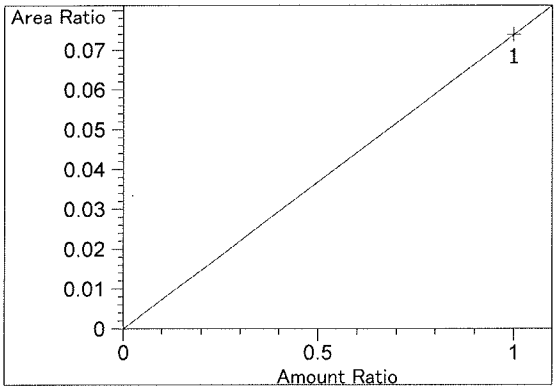
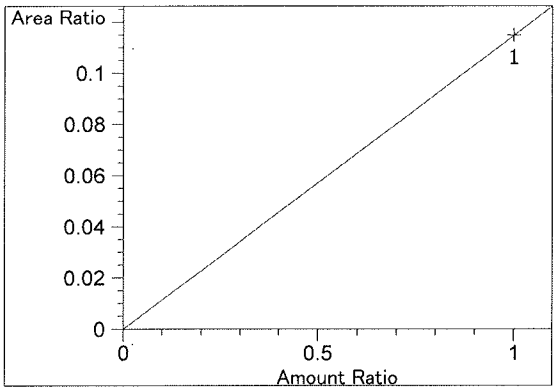


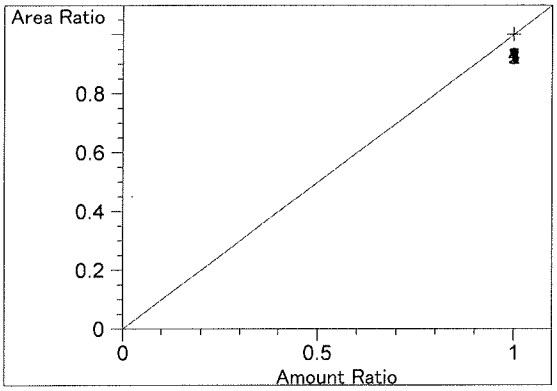
Acetone at exp. RT: 4.530
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 6.69290e-2
x: Amount Ratio
y: Area Ratio



Acetone at exp. RT: 4.549
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 7.39037e-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: 1.14789e-1
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 4.938
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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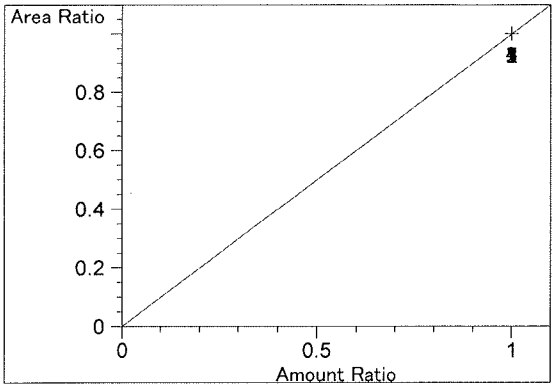

n-Propanol at exp. RT: 7.614
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.00000
x: Amount Ratio
y: Area Ratio

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Sequence File C:\Chem32\1\TEMP\AESEQ\QS_22.03.2019_12.52.15\3-22-19cal.S

Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_22.03.2019_12.52.15\3-22-19cal.S
Data directory path: C:\Chem32\1\Data\3-22-19AcalJJ
Logbook: C:\Chem32\1\Data\3-22-19AcalJJ\3-22-19cal.LOG
Sequence start: 3/22/2019 1:05:58 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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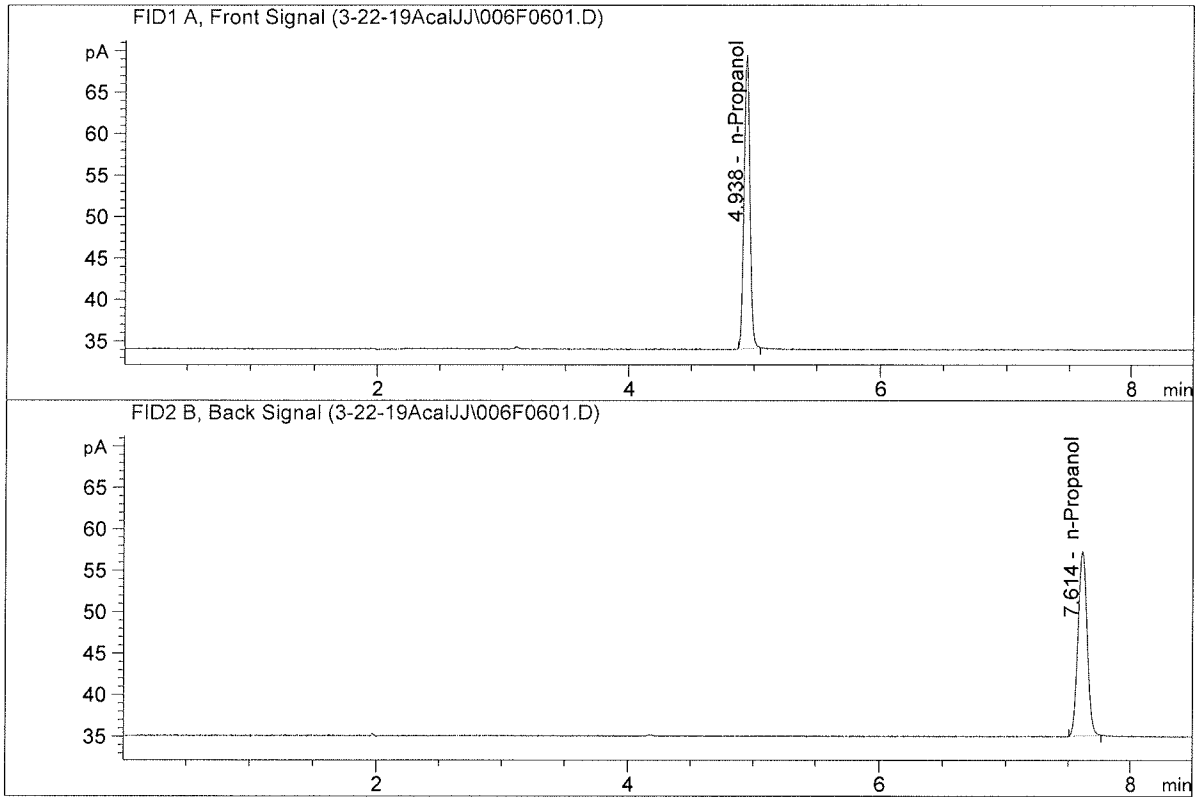
ISP Forensic Services Blood Alcohol Report

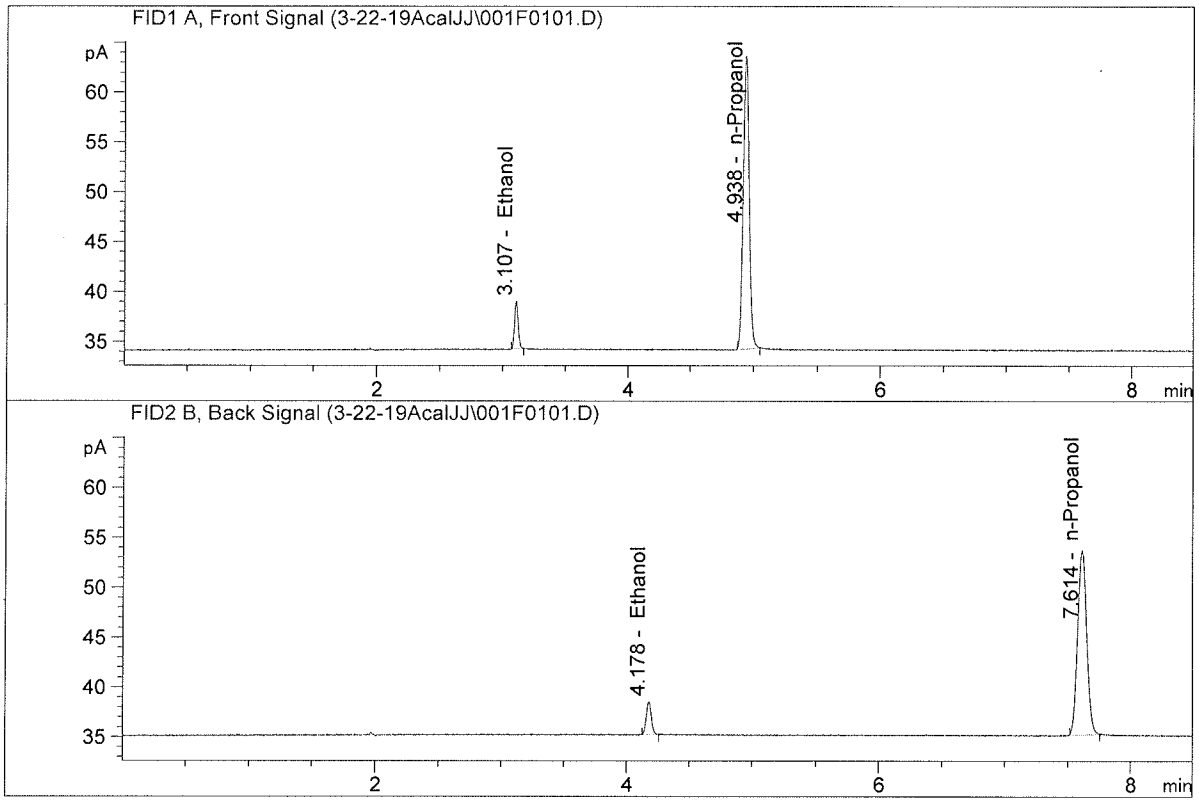
Sample Name : blank
Laboratory : Coeur d' Alene
Injection Date : Mar 22, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	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:	116.40611	1.0000	g/100cc
4.	n-Propanol	Column 2:	112.65553	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

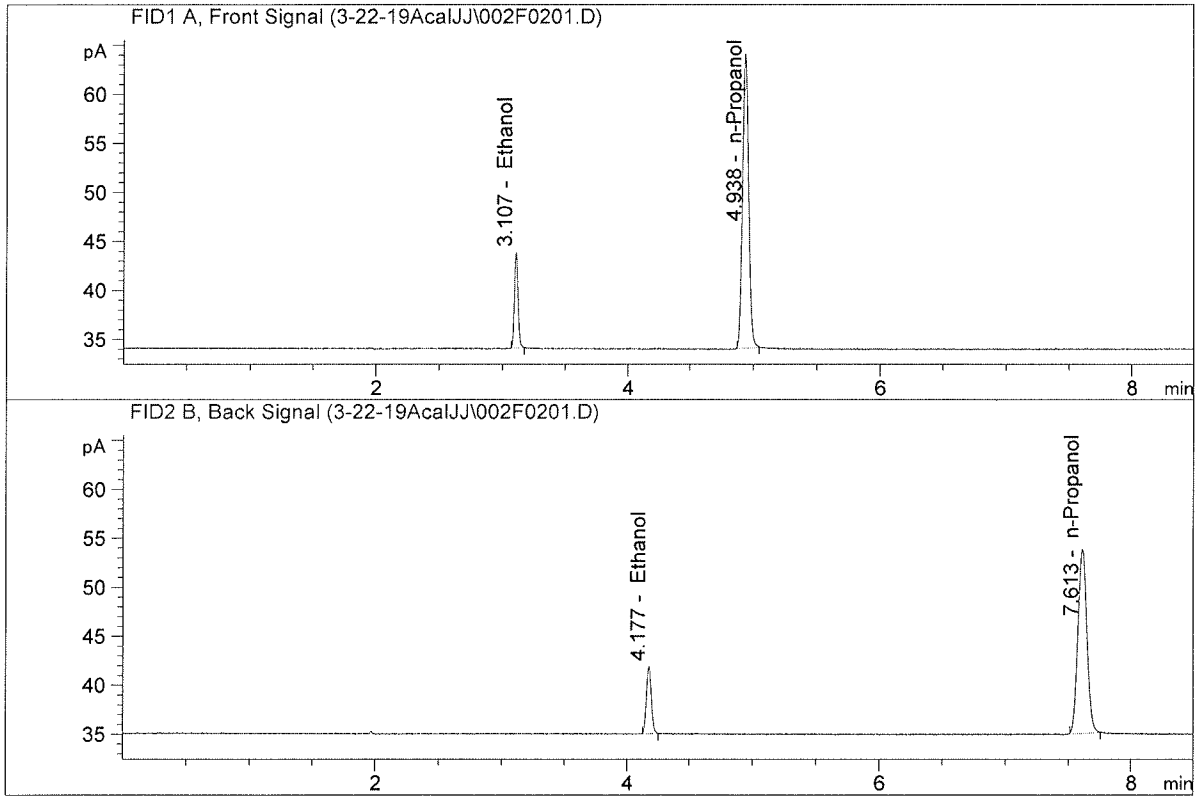
Sample Name : 0.05
Laboratory : Coeur d' Alene
Injection Date : Mar 22, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	9.48939	0.0499	g/100cc
2.	Ethanol	Column 2:	9.12949	0.0491	g/100cc
3.	n-Propanol	Column 1:	97.10884	1.0000	g/100cc
4.	n-Propanol	Column 2:	93.27022	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

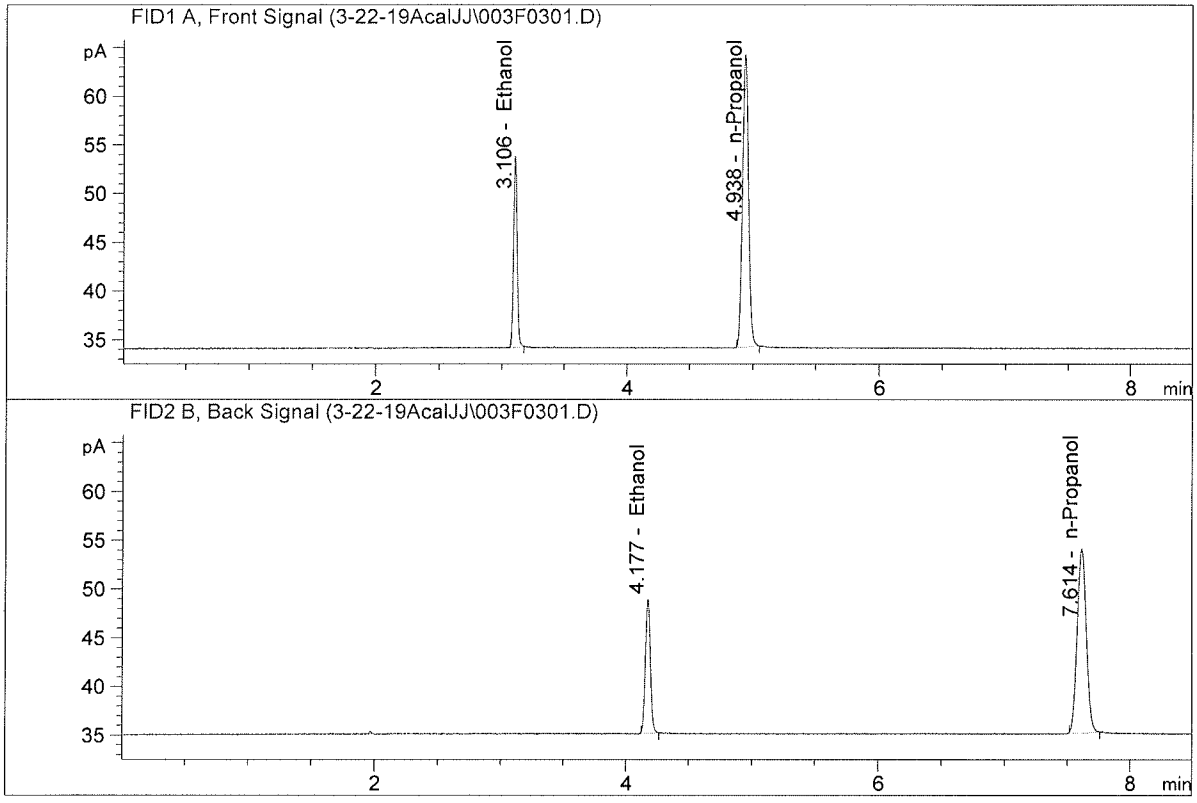
Sample Name : 0.100
Laboratory : Coeur d' Alene
Injection Date : Mar 22, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.47228	0.1008	g/100cc
2.	Ethanol	Column 2:	18.84558	0.0995	g/100cc
3.	n-Propanol	Column 1:	98.69845	1.0000	g/100cc
4.	n-Propanol	Column 2:	95.06167	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.200
Laboratory : Coeur d' Alene
Injection Date : Mar 22, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	38.97078	0.2006	g/100cc
2.	Ethanol	Column 2:	37.83263	0.1991	g/100cc
3.	n-Propanol	Column 1:	99.28555	1.0000	g/100cc
4.	n-Propanol	Column 2:	95.31416	1.0000	g/100cc

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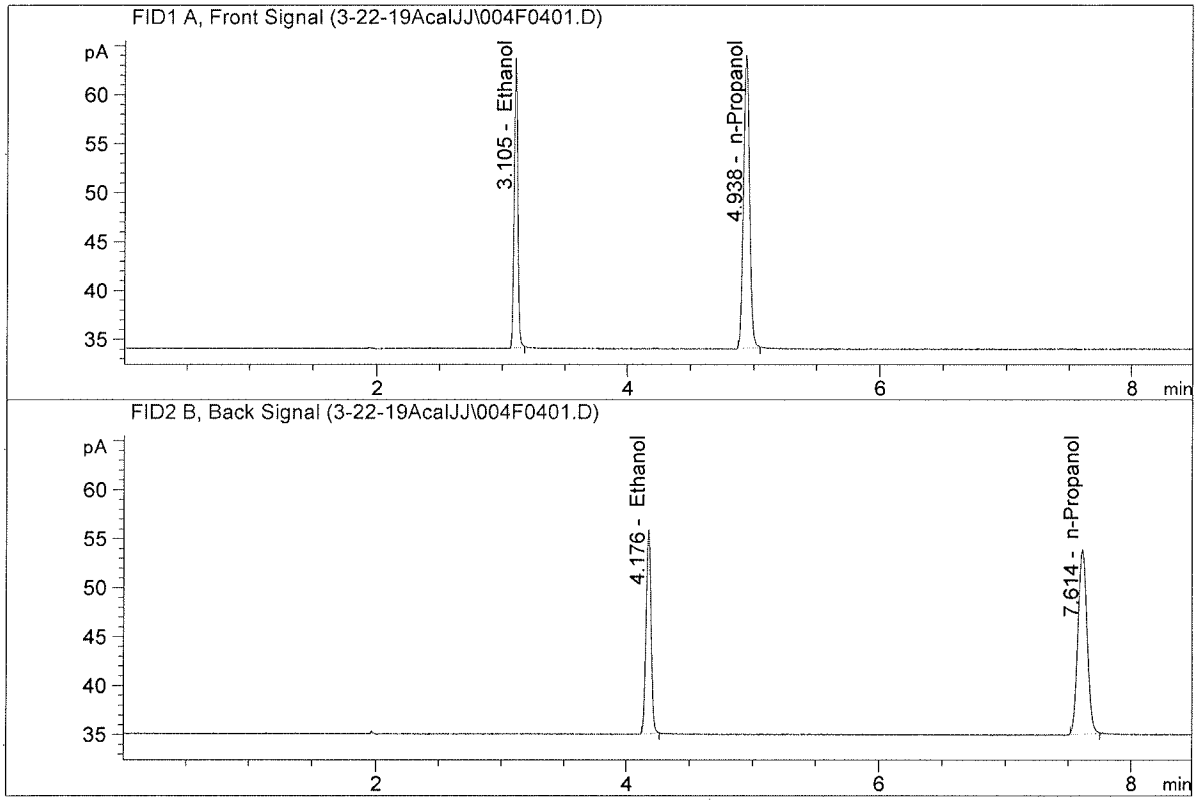
ISP Forensic Services Blood Alcohol Report

Sample Name : 0.300
Laboratory : Coeur d' Alene
Injection Date : Mar 22, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

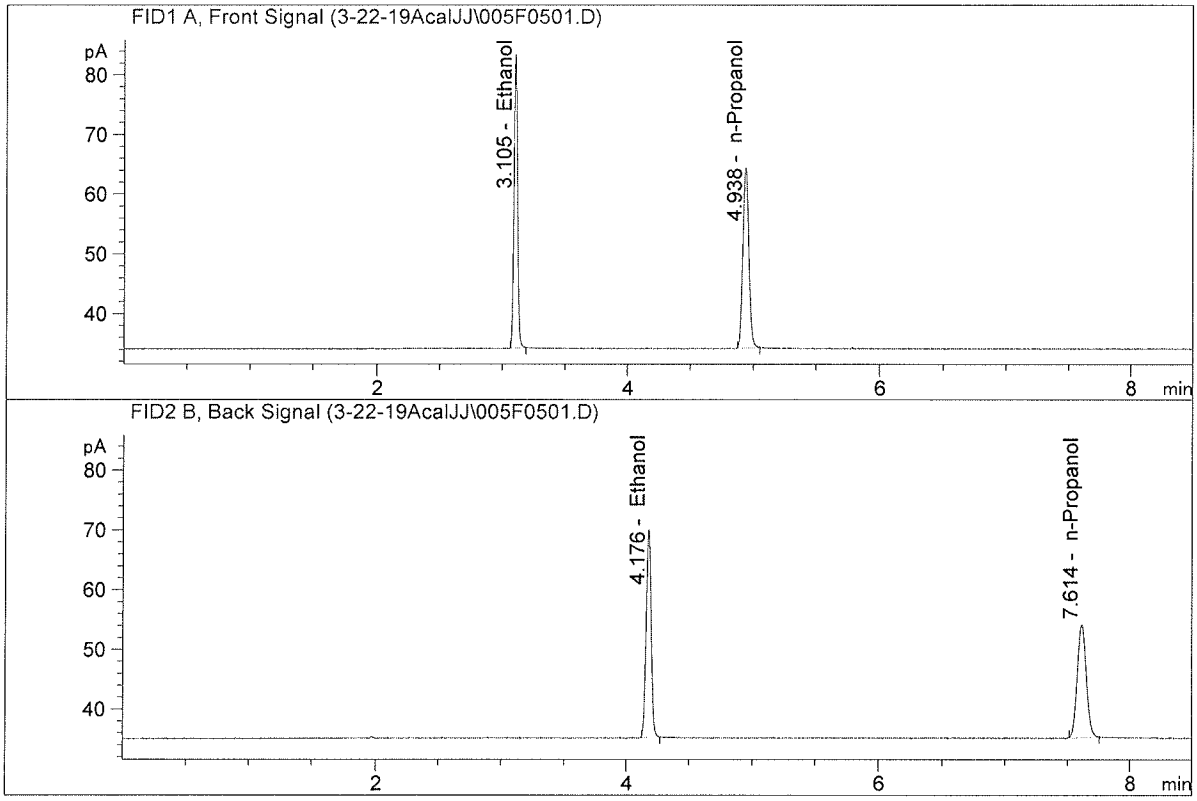


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	58.58807	0.3025	g/100cc
2.	Ethanol	Column 2:	57.15186	0.3018	g/100cc
3.	n-Propanol	Column 1:	99.00155	1.0000	g/100cc
4.	n-Propanol	Column 2:	94.99987	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

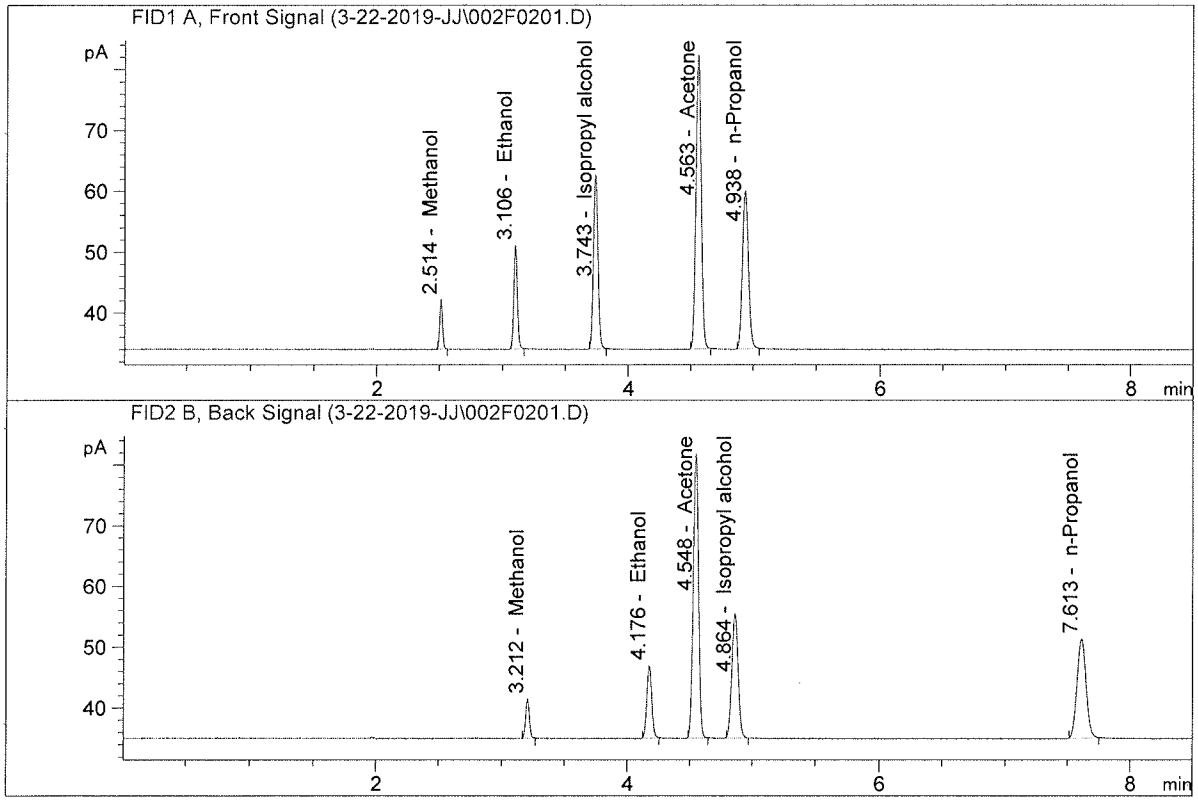
Sample Name : 0.500
Laboratory : Coeur d' Alene
Injection Date : Mar 22, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	97.20175	0.4981	g/100cc
2.	Ethanol	Column 2:	95.21478	0.4994	g/100cc
3.	n-Propanol	Column 1:	99.73427	1.0000	g/100cc
4.	n-Propanol	Column 2:	95.65314	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

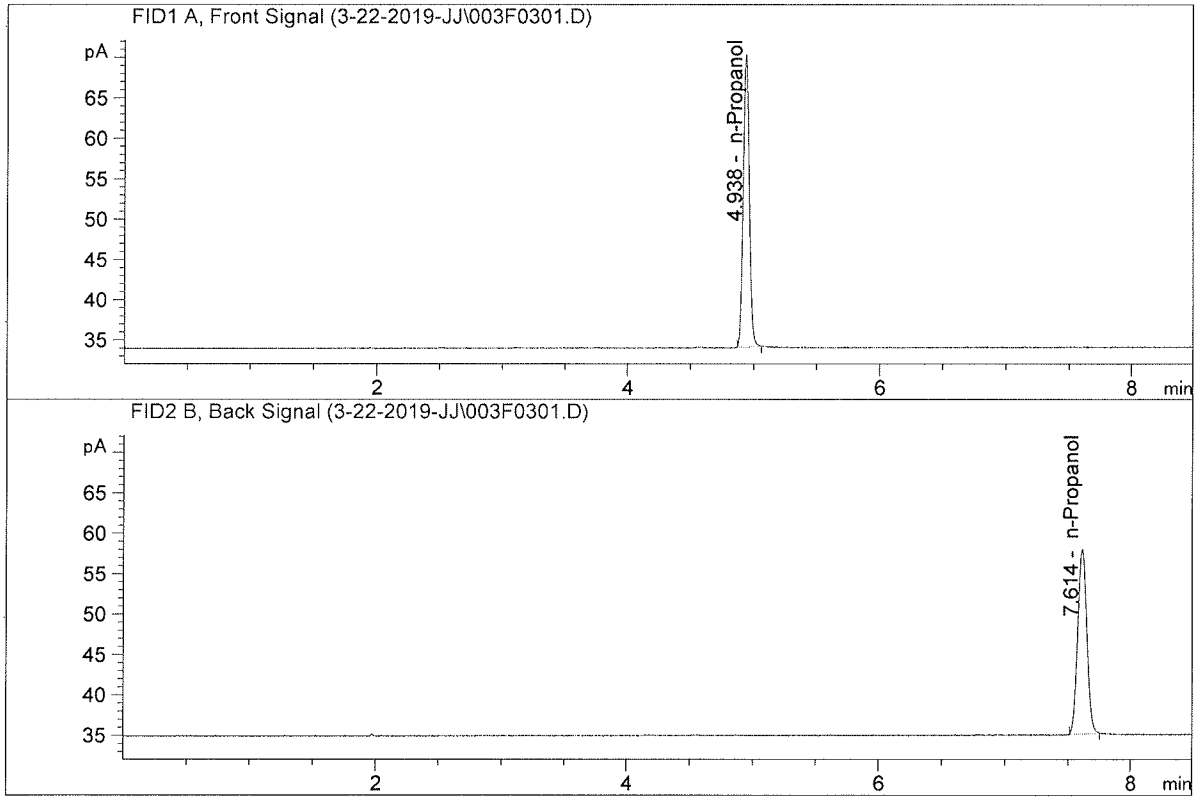
Sample Name : VOL MIX FN-06041502
Laboratory : Coeur d' Alene
Injection Date : Mar 22, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	33.60616	0.2007	g/100cc
2.	Ethanol	Column 2:	32.61057	0.1992	g/100cc
3.	n-Propanol	Column 1:	85.59455	1.0000	g/100cc
4.	n-Propanol	Column 2:	82.12894	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK
Laboratory : Coeur d' Alene
Injection Date : Mar 22, 2019
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:	119.44086	1.0000	g/100cc
4.	n-Propanol	Column 2:	115.16849	1.0000	g/100cc

99

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1 **Analysis Date(s): 22 Mar 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0747	0.0739	0.0008	0.0743	0.0747	
(g/100cc)	0.0756	0.0746	0.0010	0.0751		

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
0.074	**0.070**	**0.078**	**0.004**

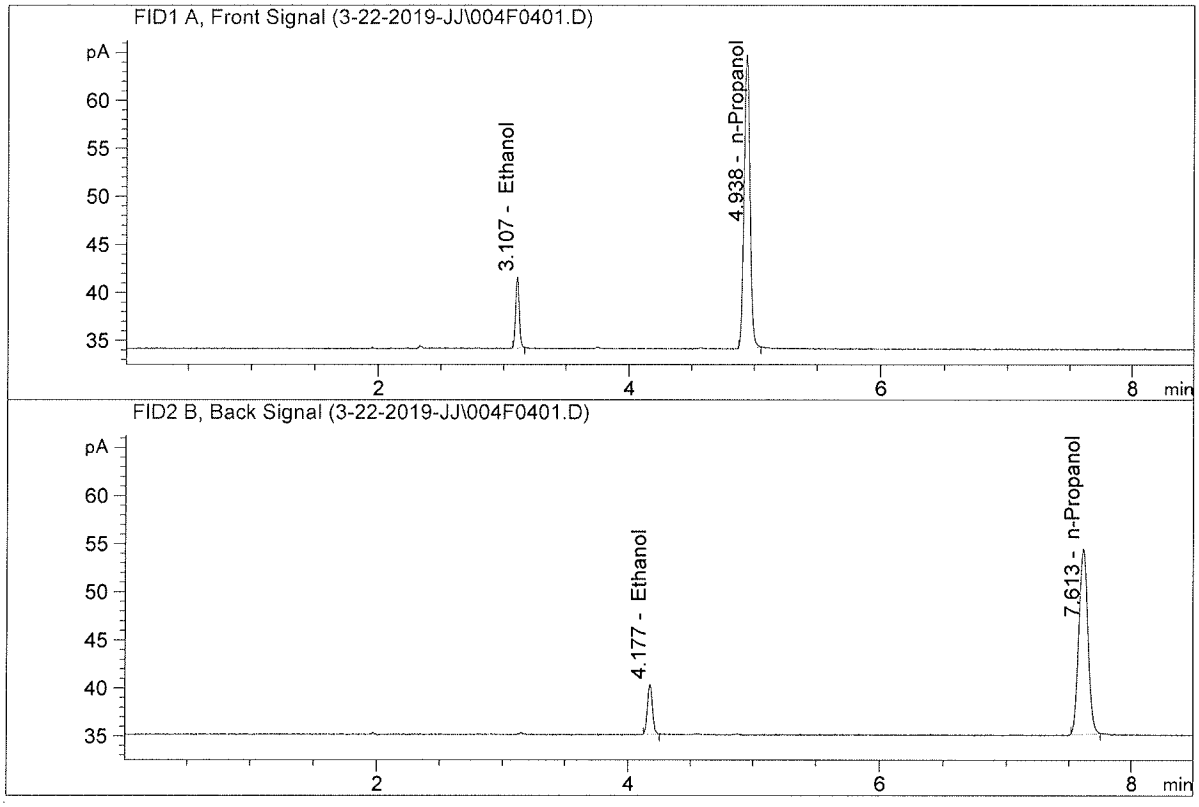
	Reported Result	
	0.074	

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 : Mar 22, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

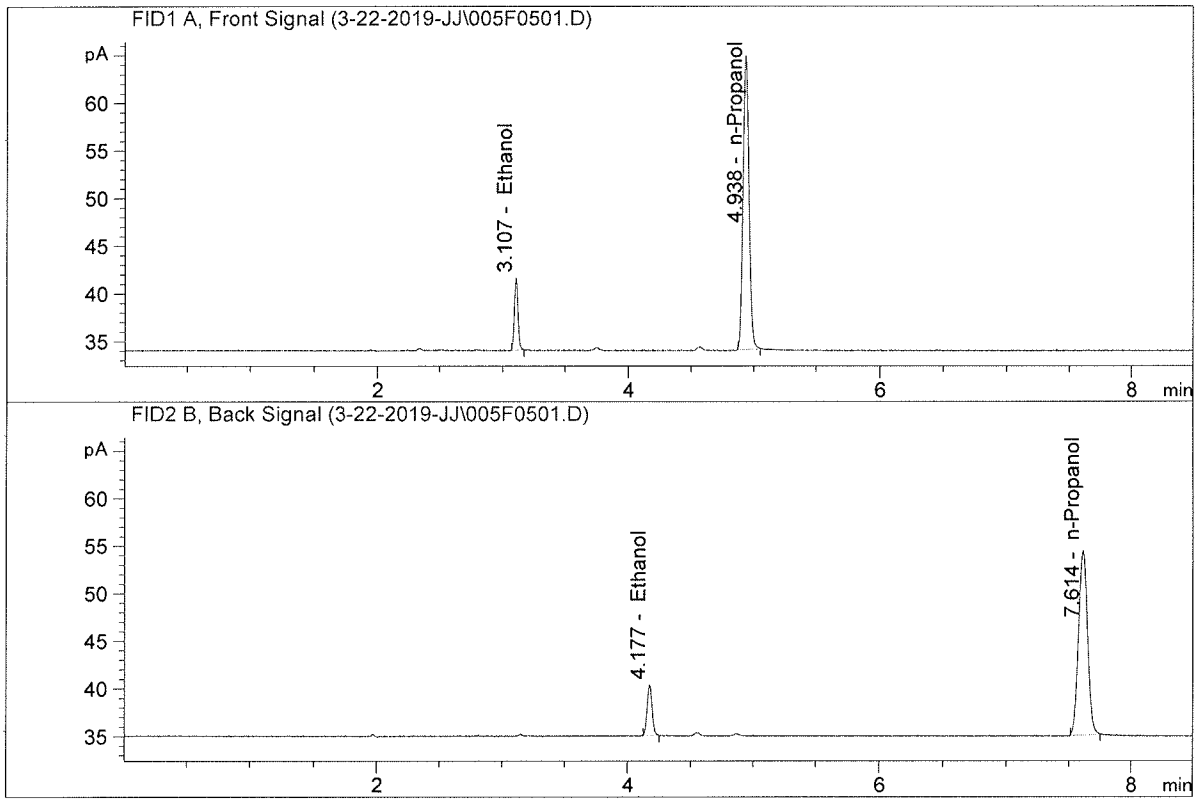


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.74572	0.0747	g/100cc
2.	Ethanol	Column 2:	14.29079	0.0739	g/100cc
3.	n-Propanol	Column 1:	100.87441	1.0000	g/100cc
4.	n-Propanol	Column 2:	97.03384	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-B
Laboratory : Coeur d' Alene
Injection Date : Mar 22, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	15.02558	0.0756	g/100cc
2.	Ethanol	Column 2:	14.53959	0.0746	g/100cc
3.	n-Propanol	Column 1:	101.51517	1.0000	g/100cc
4.	n-Propanol	Column 2:	97.75281	1.0000	g/100cc

99

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN04171701 **Analysis Date(s): 22 Mar 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0782	0.0775	0.0007	0.0778	0.0800	
(g/100cc)	0.0828	0.0815	0.0013	0.0821		

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
0.080	**0.076**	**0.084**	**0.004**

	Reported Result	
	0.080	

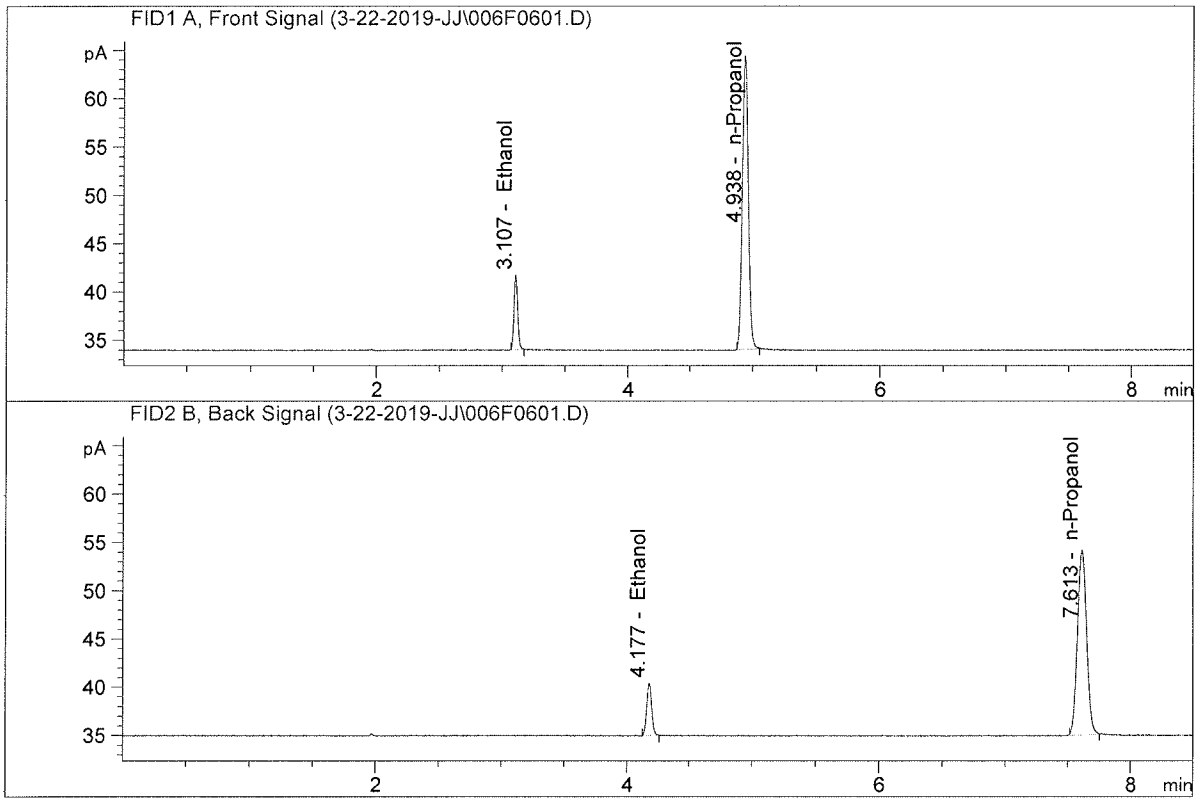
Calibration and control data are stored centrally.

99

Revision: 1
Issue Date: 01/04/2019

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-A
Laboratory : Coeur d' Alene
Injection Date : Mar 22, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

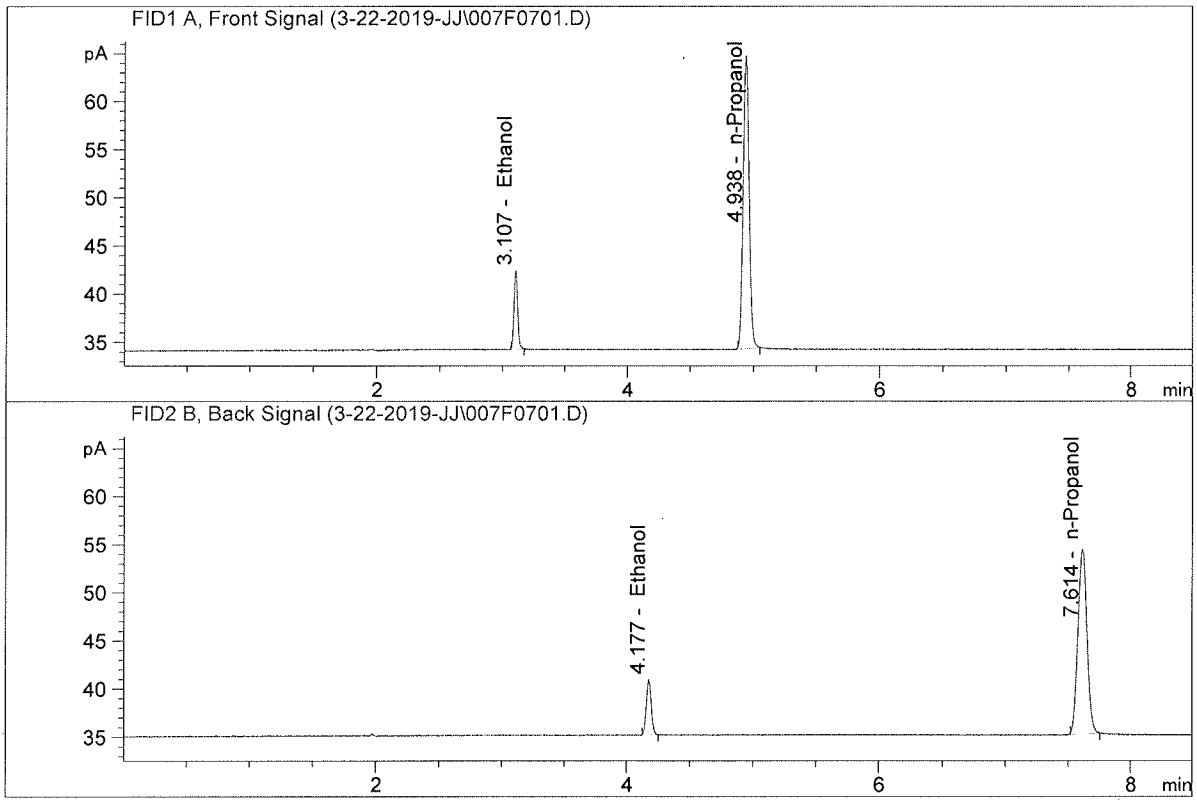


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	15.34513	0.0782	g/100cc
2.	Ethanol	Column 2:	14.92043	0.0775	g/100cc
3.	n-Propanol	Column 1:	100.28384	1.0000	g/100cc
4.	n-Propanol	Column 2:	96.55112	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-B
Laboratory : Coeur d' Alene
Injection Date : Mar 22, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	16.22323	0.0828	g/100cc
2.	Ethanol	Column 2:	15.65421	0.0815	g/100cc
3.	n-Propanol	Column 1:	100.18577	1.0000	g/100cc
4.	n-Propanol	Column 2:	96.41824	1.0000	g/100cc

99

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1 **Analysis Date(s): 22 Mar 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0764	0.0759	0.0005	0.0761	0.0756	
(g/100cc)	0.0755	0.0749	0.0006	0.0752		

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

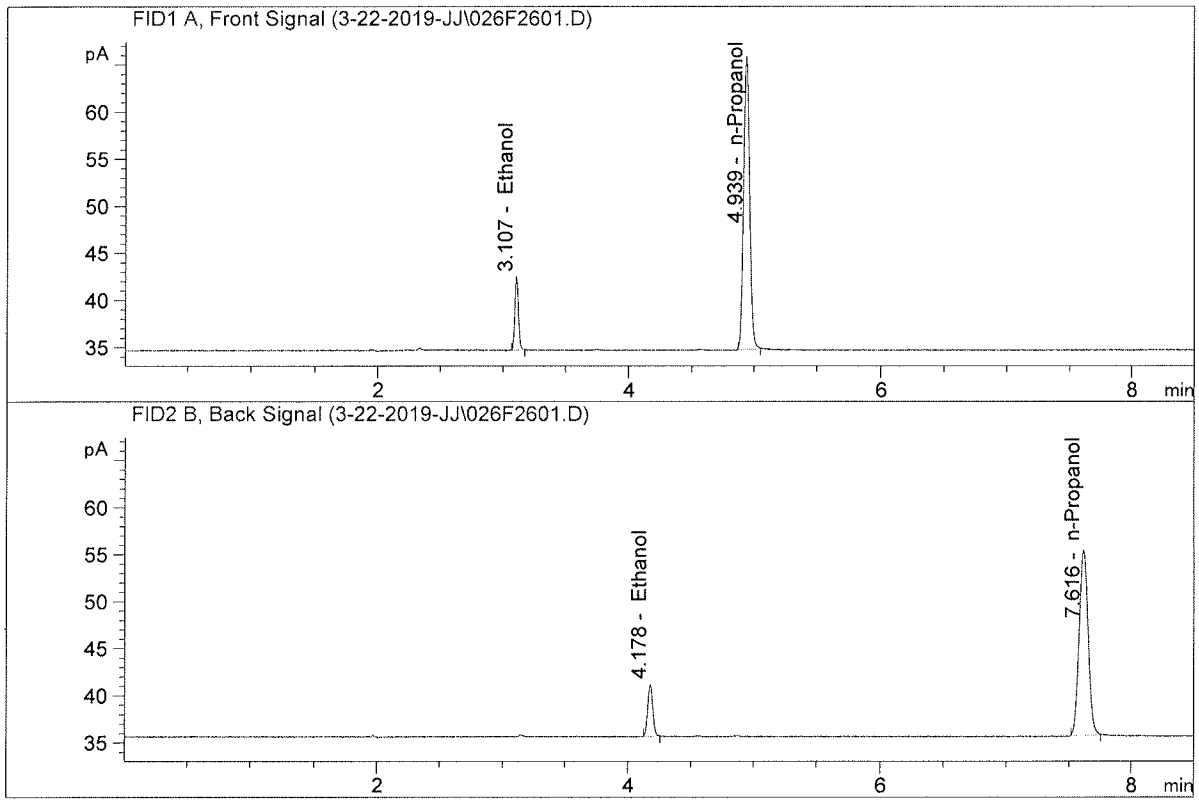
Reported Result

0.075

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-A
Laboratory : Coeur d' Alene
Injection Date : Mar 22, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	15.33744	0.0764	g/100cc
2.	Ethanol	Column 2:	15.06422	0.0759	g/100cc
3.	n-Propanol	Column 1:	102.54618	1.0000	g/100cc
4.	n-Propanol	Column 2:	99.56115	1.0000	g/100cc

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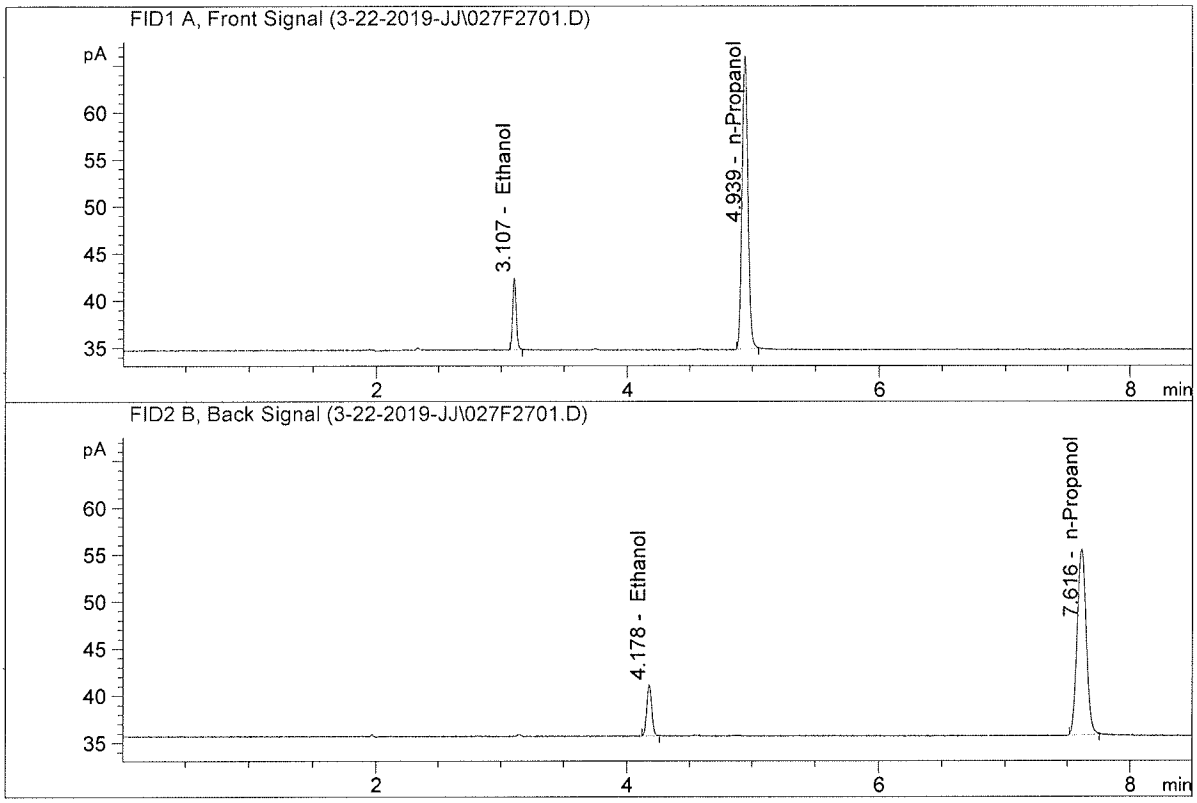
ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-B
Laboratory : Coeur d' Alene
Injection Date : Mar 22, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	15.13222	0.0755	g/100cc
2.	Ethanol	Column 2:	14.86569	0.0749	g/100cc
3.	n-Propanol	Column 1:	102.42616	1.0000	g/100cc
4.	n-Propanol	Column 2:	99.63710	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-2 **Analysis Date(s): 22 Mar 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1907	0.1910	0.0003	0.1908	0.1908	
(g/100cc)	0.1907	0.1910	0.0003	0.1908		

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%

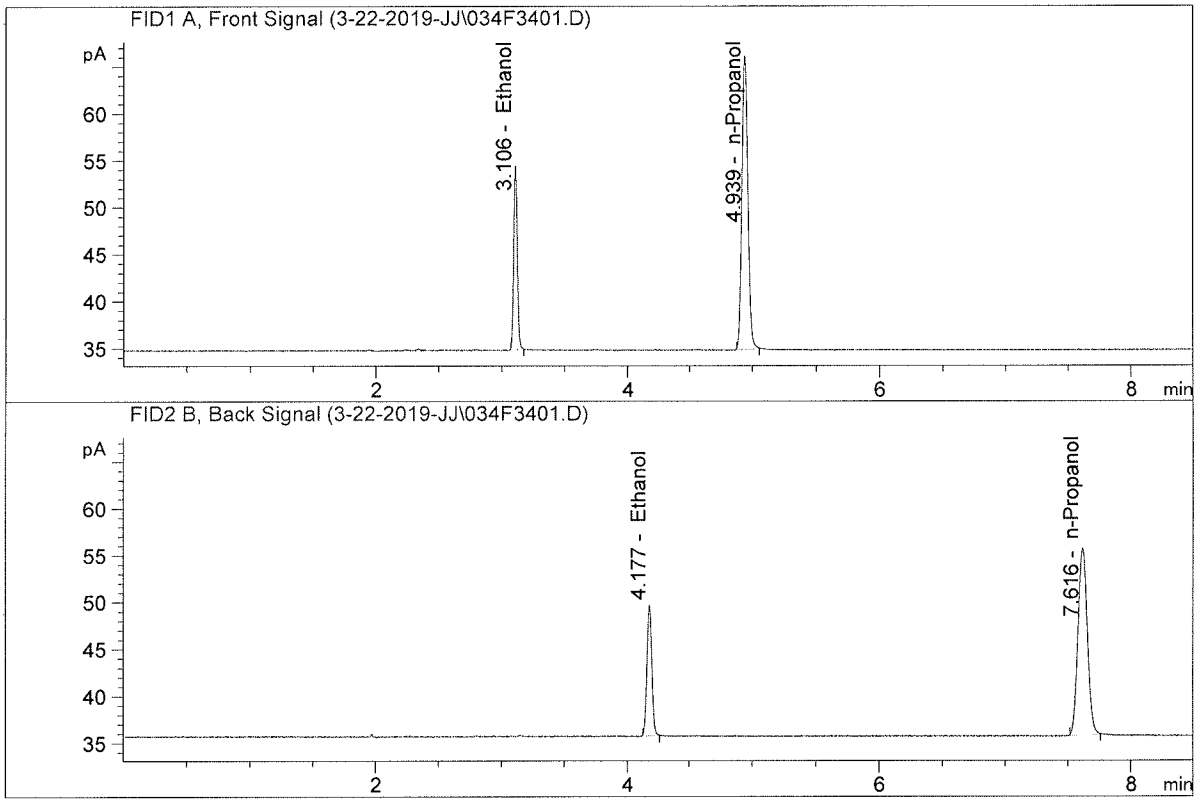
Overall Mean (g/100cc)	Low	High	5% of Mean
0.190	**0.180**	**0.200**	**0.010**

	Reported Result	
	0.190	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

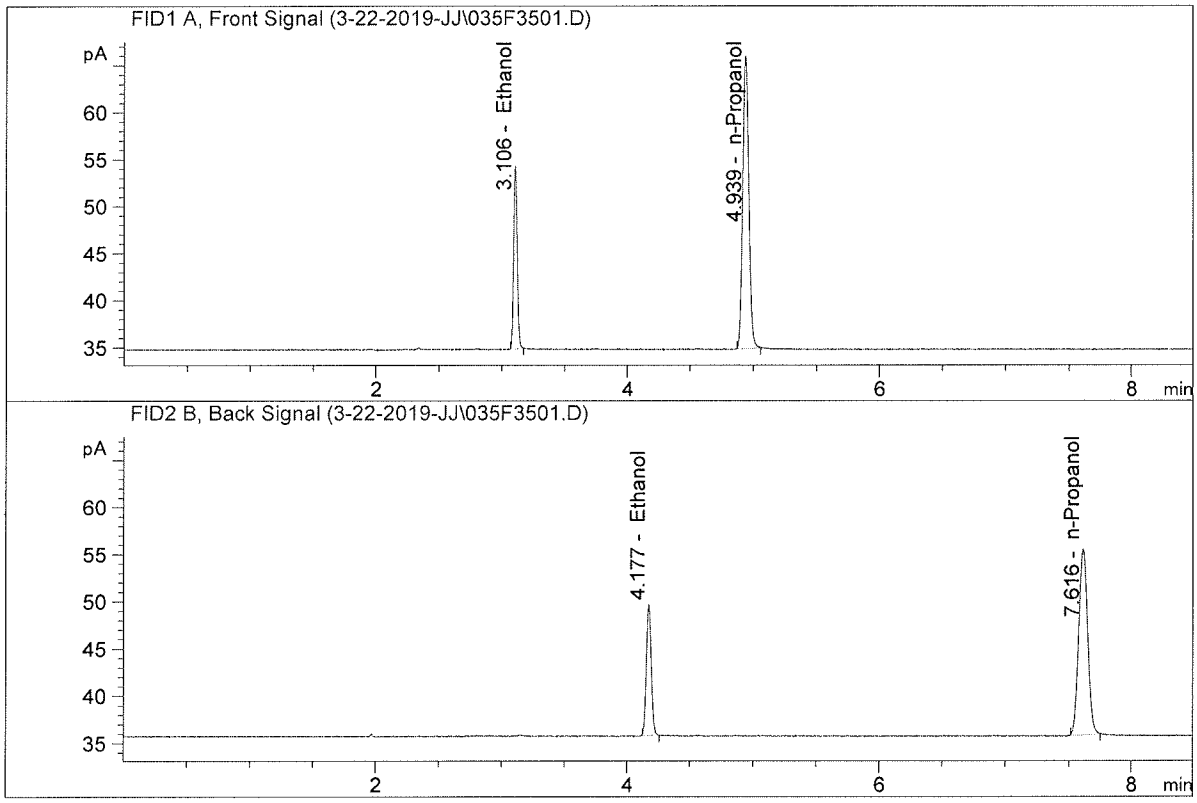
Sample Name : QC-2-A
Laboratory : Coeur d' Alene
Injection Date : Mar 22, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	38.45011	0.1907	g/100cc
2.	Ethanol	Column 2:	38.11998	0.1910	g/100cc
3.	n-Propanol	Column 1:	103.07706	1.0000	g/100cc
4.	n-Propanol	Column 2:	100.15794	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

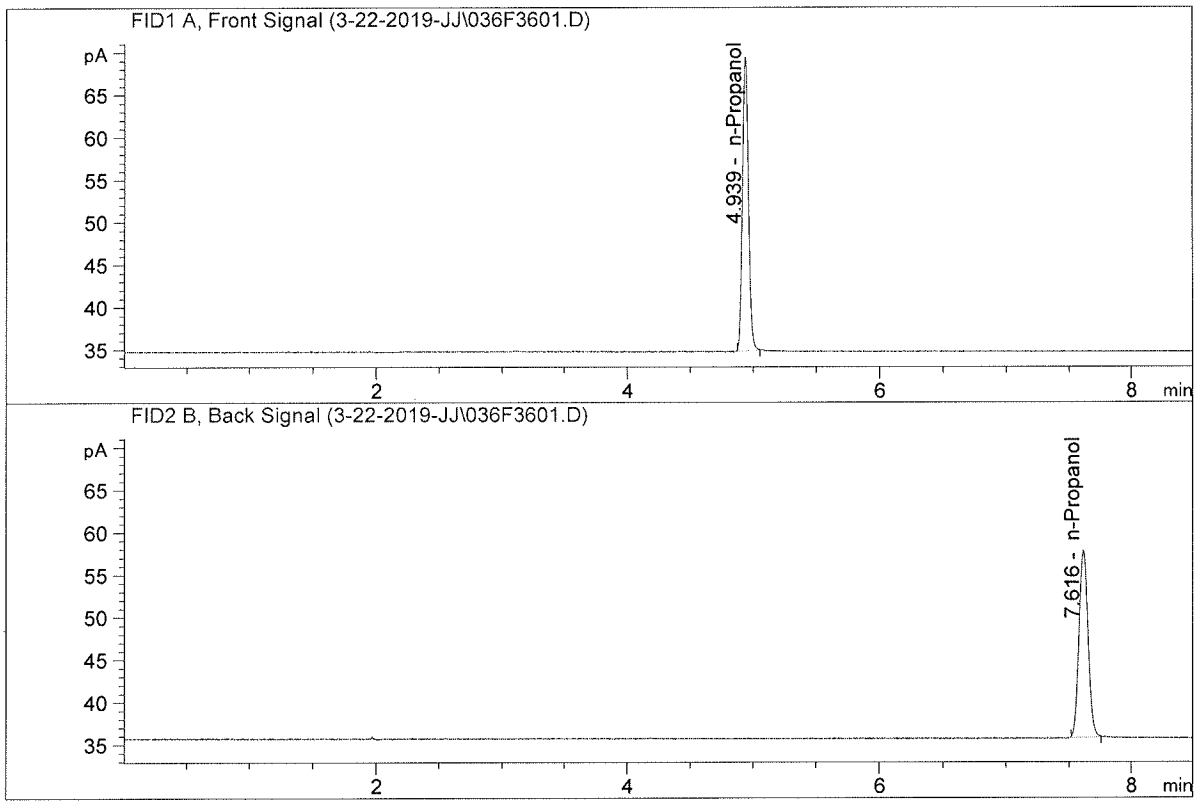
Sample Name : QC-2-B
Laboratory : Coeur d' Alene
Injection Date : Mar 22, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	38.20537	0.1907	g/100cc
2.	Ethanol	Column 2:	37.89497	0.1910	g/100cc
3.	n-Propanol	Column 1:	102.37643	1.0000	g/100cc
4.	n-Propanol	Column 2:	99.52457	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK
Laboratory : Coeur d' Alene
Injection Date : Mar 22, 2019
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:	113.74329	1.0000	g/100cc
4.	n-Propanol	Column 2:	111.24699	1.0000	g/100cc

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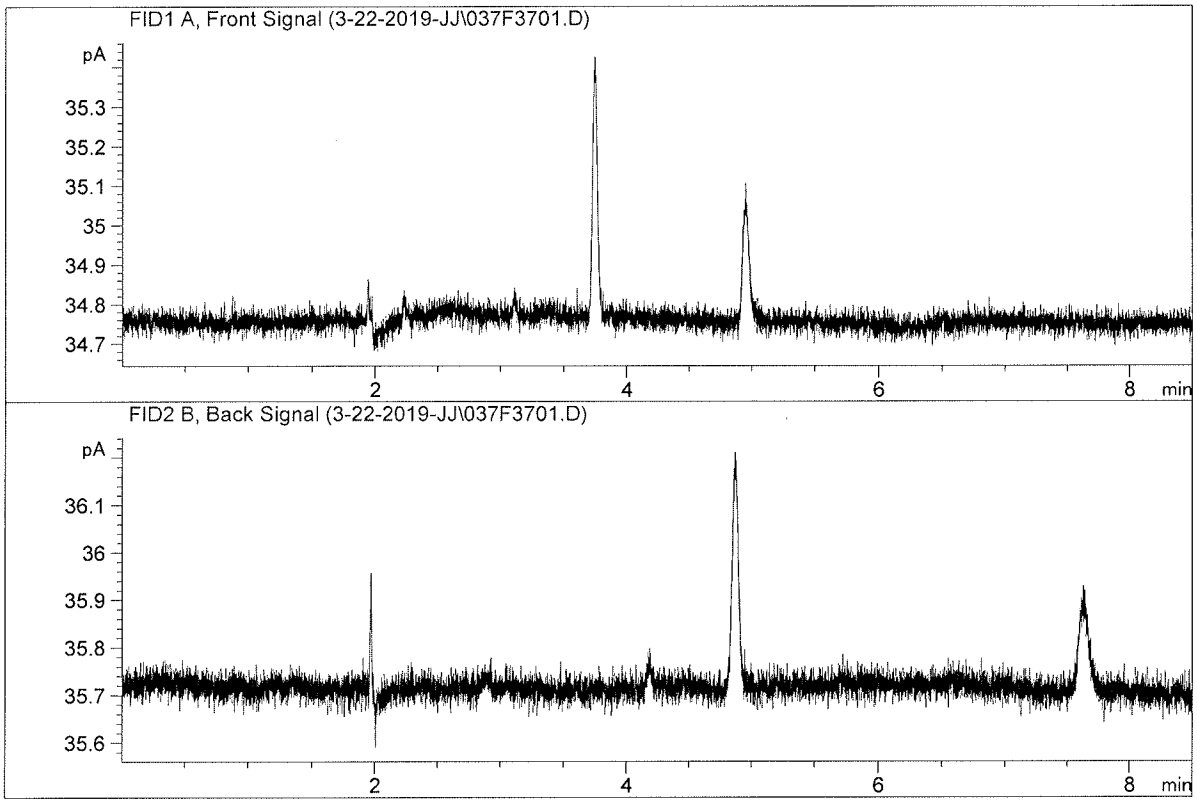
ISP Forensic Services Blood Alcohol Report

Sample Name : water
Laboratory : Coeur d' Alene
Injection Date : Mar 22, 2019
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