REVIEWED
By Rachel Cutler at 4:34 pm, May 20, 2019

5/15/2019

Worklist: 3389

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
C2019-0734	1	149148	Alcohol Analysis
C2019-0739	1	149313	Alcohol Analysis
C2019-0775	1	150138	Alcohol Analysis
C2019-0779	1	150147	Alcohol Analysis
C2019-0803	1	150546	Alcohol Analysis
C2019-0804	1	150579	Alcohol Analysis
C2019-0812	1	150791	Alcohol Analysis
C2019-0816	1	150847	Alcohol Analysis
C2019-0819	1	150853	Alcohol Analysis
C2019-0824	1	150941	Alcohol Analysis
C2019-0836	1	150963	Alcohol Analysis
C2019-0841	1	150976	Alcohol Analysis
C2019-0844	1	150980	Alcohol Analysis
C2019-0850	1	151075	Alcohol Analysis
C2019-0872	1	151239	Alcohol Analysis
C2019-0879	1	151491	Alcohol Analysis
C2019-0880	1	151591	Alcohol Analysis
C2019-0899	1	151674	Alcohol Analysis
C2019-0900	1	151675	Alcohol Analysis

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Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

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

Volatiles Quality Assurance Controls **Run Date(s): 5/15/19**

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jan-22	1801036	0.0812	0.0731-0.0893	0.0798 g/100cc
					g/100cc
					g/100cc
Level 2	Jan-22	1803028	0.2035	0.1832-0.2238	0.1979 g/100cc
					0.2011 g/100cc
					g/100cc

Multi-Component mixture:	Sep-20	Lot #	FN06041502	OK
Curve Fit:	**Column 1**	0.99999	**Column2**	1.00000

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0497	0.0498	1E-04	0.0497
100	0.100	0.090 - 0.110	0.0996	0.0998	0.0002	0.0997
200	0.200	0.180 - 0.220	0.1985	0.1984	0.0001	0.1984
300	0.300	0.270 - 0.330	0.3013	0.3004	0.0009	0.3008
500	0.500	0.450 - 0.550	0.4999	0.5004	0.0005	0.5001

Aqueous Controls

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

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

Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_15.05.2019_03.30.41\5-15-2019.S
Data directory path: C:\Chem32\1\Data\5-15-2019-JJ
Logbook: C:\Chem32\1\Data\5-15-2019-JJ\5-15-2019.LOG
Sequence start: 5/15/2019 3:44:28 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		0
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-2-A	-	1.0000	004F0401.D		4
5	5	1	QC-2-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	C2019-0734-1-A	-	1.0000	008F0801.D		4
9	9	1	C2019-0734-1-B	-	1.0000	009F0901.D		4
10	10	1	C2019-0739-1-A	-	1.0000	010F1001.D		4
11	11	1	C2019-0739-1-B	-	1.0000	011F1101.D		4
12	12	1	C2019-0775-1-A	-	1.0000	012F1201.D		2
13	13	1	C2019-0775-1-B	-	1.0000	013F1301.D		2
14	14	1	C2019-0779-1-A	-	1.0000	014F1401.D		4
15	15	1	C2019-0779-1-B	-	1.0000	015F1501.D		4
16	16	1	C2019-0803-1-A	-	1.0000	016F1601.D		4
17	17	1	C2019-0803-1-B	-	1.0000	017F1701.D		4
18	18	1	C2019-0804-1-A	-	1.0000	018F1801.D		4
19	19	1	C2019-0804-1-B	-	1.0000	019F1901.D		4
20	20	1	C2019-0812-1-A	-	1.0000	020F2001.D		4
21	21	1	C2019-0812-1-B	-	1.0000	021F2101.D		4
22	22	1	C2019-0816-1-A	-	1.0000	022F2201.D		2
23	23	1	C2019-0816-1-B	-	1.0000	023F2301.D		2
24	24	1	C2019-0819-1-A	-	1.0000	024F2401.D		2
25	25	1	C2019-0819-1-B	-	1.0000	025F2501.D		2
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	C2019-0824-1-A	-	1.0000	028F2801.D		4
29	29	1	C2019-0824-1-B	-	1.0000	029F2901.D		4
30	30	1	C2019-0836-1-A	-	1.0000	030F3001.D		4
31	31	1	C2019-0836-1-B	-	1.0000	031F3101.D		4
32	32	1	C2019-0841-1-A	-	1.0000	032F3201.D		4
33	33	1	C2019-0841-1-B	-	1.0000	033F3301.D		4
34	34	1	C2019-0844-1-A	-	1.0000	034F3401.D		4
35	35	1	C2019-0844-1-B	-	1.0000	035F3501.D		4
36	36	1	C2019-0850-2-A -199	-	1.0000	036F3601.D		4
37	37	1	C2019-0850-2-B -199	-	1.0000	037F3701.D		4
38	38	1	C2019-0872-1-A	-	1.0000	038F3801.D		2
39	39	1	C2019-0872-1-B	-	1.0000	039F3901.D		2
40	40	1	C2019-0879-1-A	-	1.0000	040F4001.D		4
41	41	1	C2019-0879-1-B	-	1.0000	041F4101.D		4
42	42	1	C2019-0880-1-A	-	1.0000	042F4201.D		2
43	43	1	C2019-0880-1-B	-	1.0000	043F4301.D		2
44	44	1	C2019-0899-1-A	-	1.0000	044F4401.D		4
45	45	1	C2019-0899-1-B	-	1.0000	045F4501.D		4
46	46	1	C2019-0900-1-A	-	1.0000	046F4601.D		4

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Sequence File C:\Chem32\1\TEMP\AESEQ\QS_15.05.2019_03.30.41\5-15-2019.S

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
47	47	1	C2019-0900-1-B	-	1.0000	047F4701.D		4
48	48	1	QC-2-A	-	1.0000	048F4801.D		4
49	49	1	QC-2-B	-	1.0000	049F4901.D		4
50	50	1	ISTD BLANK	-	1.0000	050F5001.D		2
51	51	1	water	-	1.0000	051F5101.D		0

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Calibration Table

General Calibration Setting

Calib. Data Modified : Wednesday, May 15, 2019 2:32:54 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

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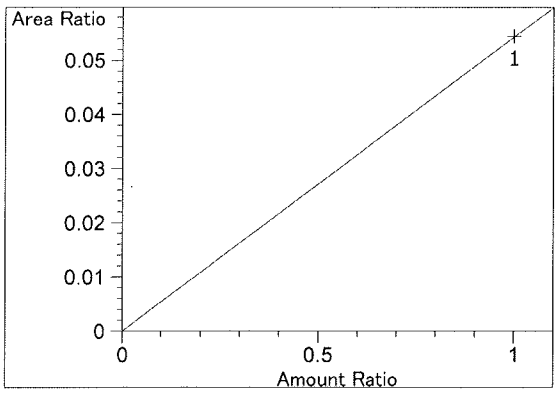
RT	Sig	Lvl	Amount [g/100cc]	Area	Rsp.Factor	Ref	ISTD	#	Compound
2.000	2	1	1.00000	5.00000	2.00000e-1	No	No	2	Difluoroethane
2.000	1	1	1.00000	5.00000	2.00000e-1	No	No	1	Difluoroethane
2.494	1	1	1.00000	3.69669	2.70512e-1	No	No	1	Methanol
2.772	1	1	1.00000	3.19311	3.13174e-1	No	No	1	Acetaldehyde
2.797	2	1	1.00000	3.10575	3.21983e-1	No	No	2	Acetaldehyde
3.106	1	1	5.00000e-2	8.73024	5.72722e-3	No	No	1	Ethanol
		2	1.00000e-1	17.48366	5.71963e-3				
		3	2.00000e-1	35.07230	5.70251e-3				
		4	3.00000e-1	52.65460	5.69751e-3				
		5	5.00000e-1	87.92327	5.68678e-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
4.177	2	1	5.00000e-2	8.88066	5.63022e-3	No	No	2	Ethanol
		2	1.00000e-1	17.77187	5.62687e-3				
		3	2.00000e-1	35.50909	5.63236e-3				
		4	3.00000e-1	53.15751	5.64361e-3				
		5	5.00000e-1	88.81397	5.62974e-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
4.939	1	1	1.00000	92.43375	1.08186e-2	No	Yes	1	n-Propanol
		2	1.00000	92.39546	1.08230e-2				
		3	1.00000	92.98608	1.07543e-2				
		4	1.00000	91.97100	1.08730e-2				
		5	1.00000	92.56152	1.08036e-2				
7.616	2	1	1.00000	91.90997	1.08802e-2	No	Yes	2	n-Propanol
		2	1.00000	91.74358	1.08999e-2				
		3	1.00000	92.23264	1.08421e-2				
		4	1.00000	91.16900	1.09686e-2				
		5	1.00000	91.45116	1.09348e-2				

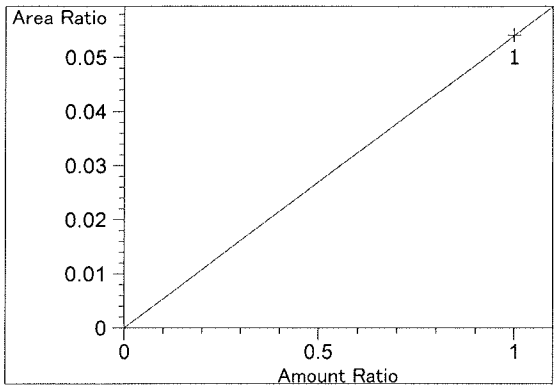
Peak Sum Table

No Entries in table

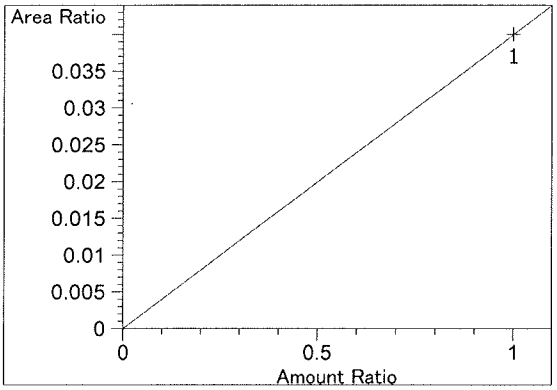
Calibration Curves



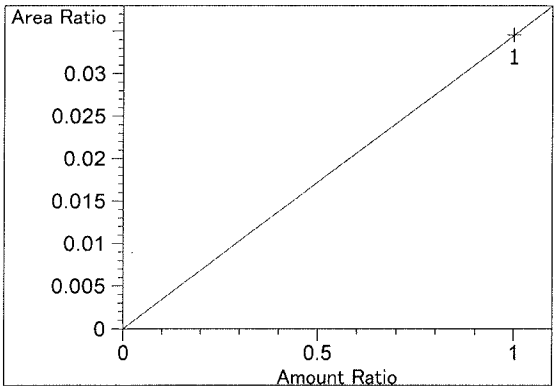
Difluoroethane at exp. RT: 2.000
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 5.44011e-2
x: Amount Ratio
y: Area Ratio



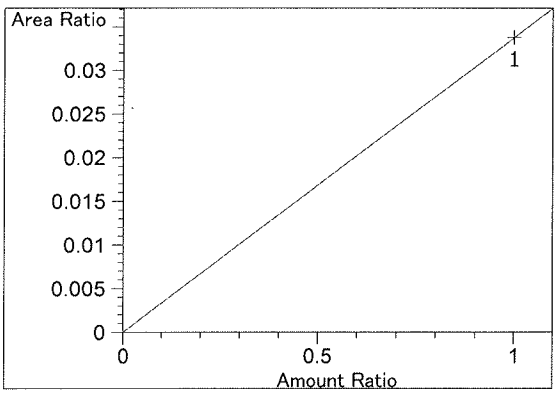
Difluoroethane at exp. RT: 2.000
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 5.40928e-2
x: Amount Ratio
y: Area Ratio



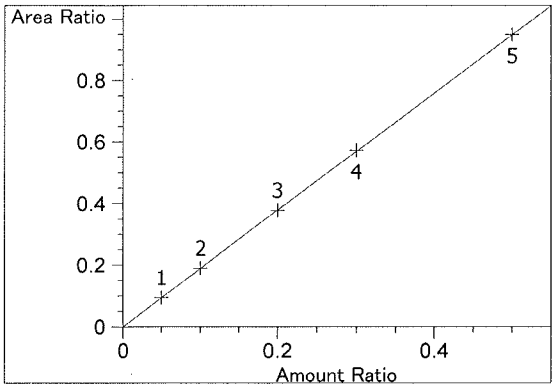
Methanol at exp. RT: 2.494
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 3.99929e-2
x: Amount Ratio
y: Area Ratio



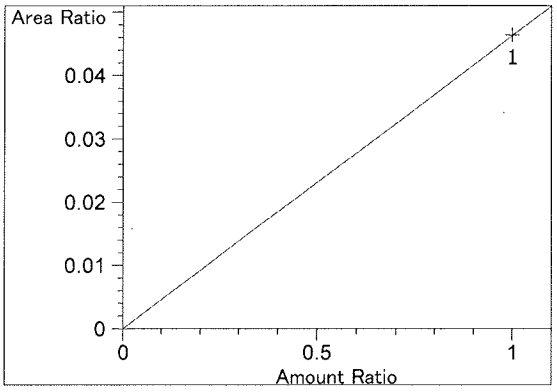
Acetaldehyde at exp. RT: 2.772
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 3.45448e-2
x: Amount Ratio
y: Area Ratio



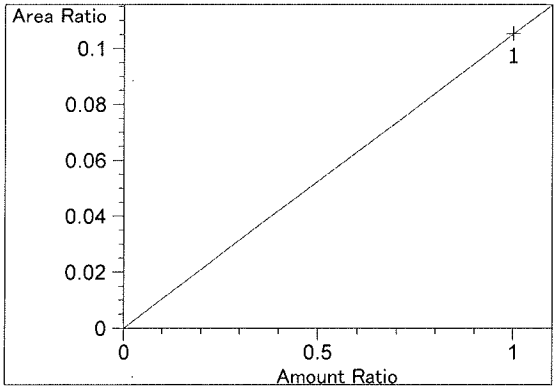
Acetaldehyde at exp. RT: 2.797
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 3.37912e-2
x: Amount Ratio
y: Area Ratio



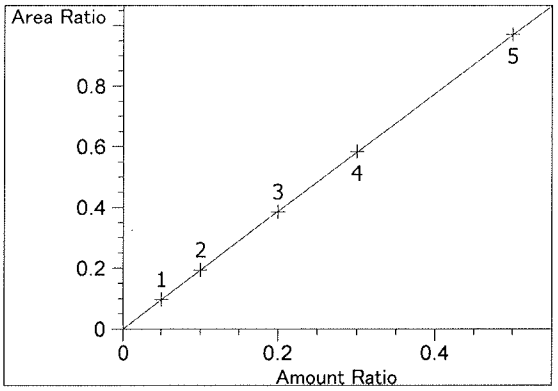
Ethanol at exp. RT: 3.106
FID1 A, Front Signal
Correlation: 0.99999
Residual Std. Dev.: 0.00195
Formula: y = mx
m: 1.90008
x: Amount Ratio
y: Area Ratio



Methanol at exp. RT: 3.211
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 4.63565e-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: 1.05271e-1
x: Amount Ratio
y: Area Ratio



Ethanol at exp. RT: 4.177
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00170
Formula: y = mx
m: 1.94064
x: Amount Ratio
y: Area Ratio

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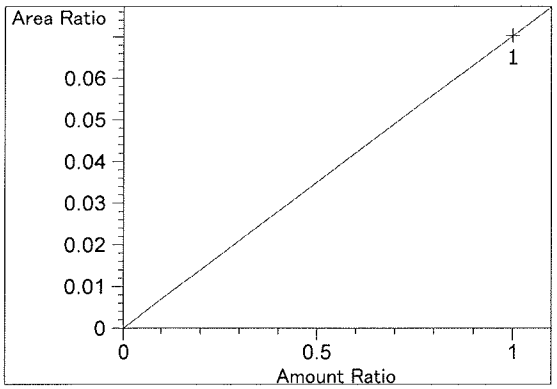
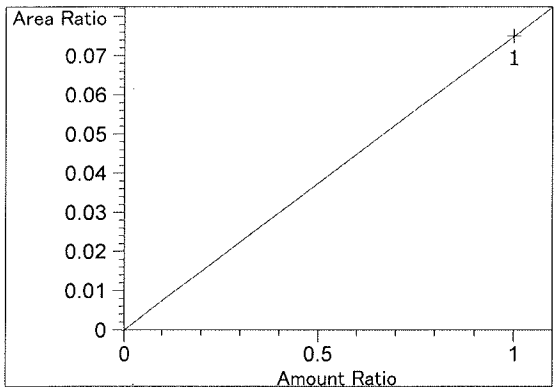
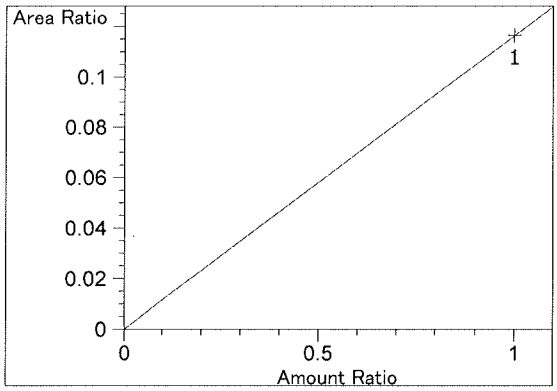


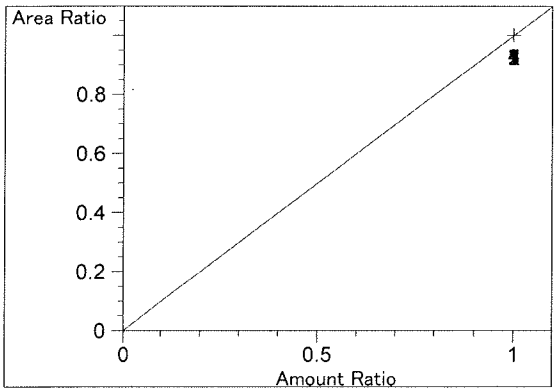
Acetone at exp. RT: 4.530
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 7.03142e-2
x: Amount Ratio
y: Area Ratio



Acetone at exp. RT: 4.549
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 7.49974e-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: 1.16488e-1
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 4.939
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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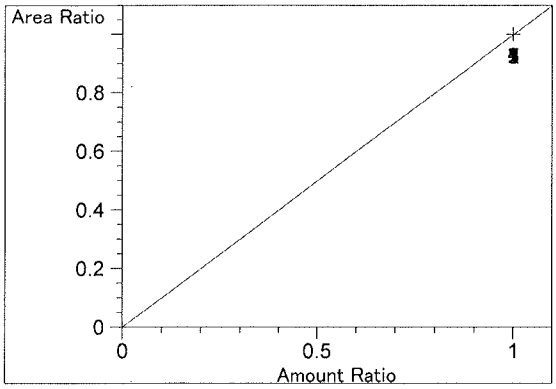

n-Propanol at exp. RT: 7.616
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.00000
x: Amount Ratio
y: Area Ratio

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Sample Summary

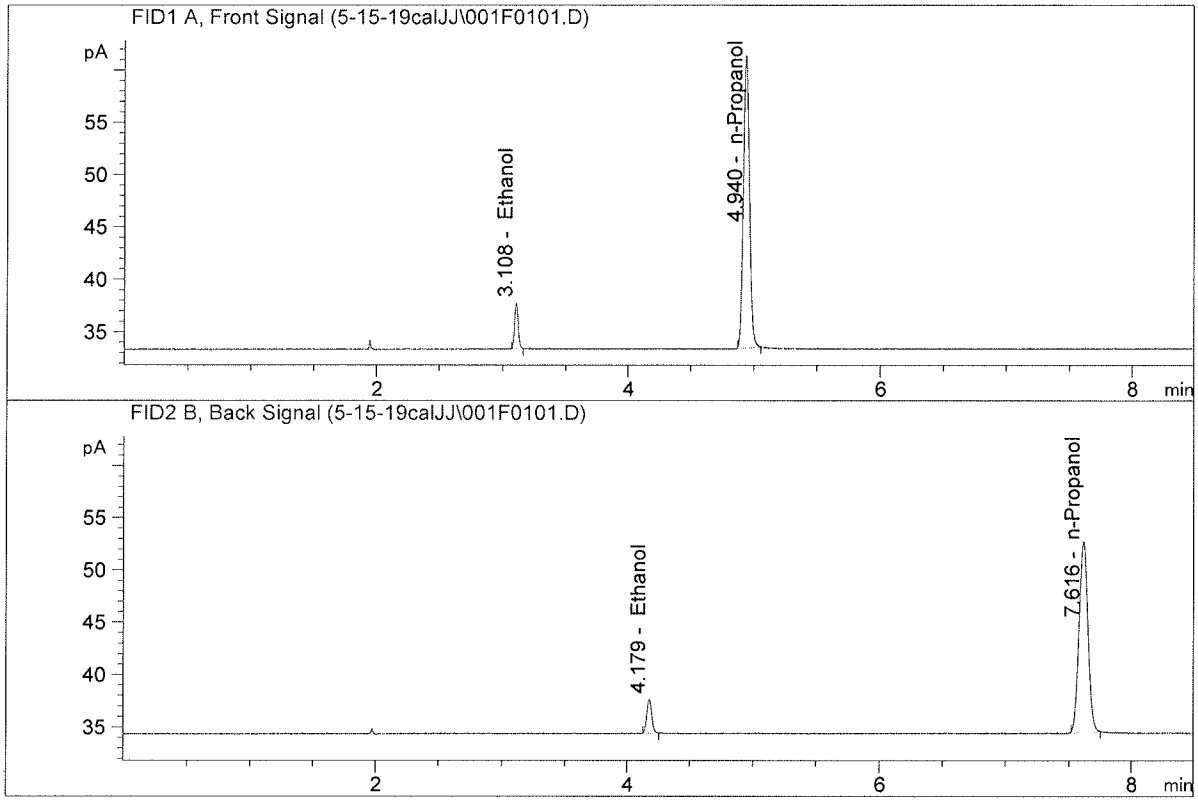
Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_15.05.2019_12.21.39\5-15-19cal.S
Data directory path: C:\Chem32\1\Data\5-15-19calJJ
Logbook: C:\Chem32\1\Data\5-15-19calJJ\5-15-19cal.LOG
Sequence start: 5/15/2019 12:35:22 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

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

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.05
Laboratory : Coeur d' Alene
Injection Date : May 15, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.73024	0.0497	g/100cc
2.	Ethanol	Column 2:	8.88066	0.0498	g/100cc
3.	n-Propanol	Column 1:	92.43375	1.0000	g/100cc
4.	n-Propanol	Column 2:	91.90997	1.0000	g/100cc

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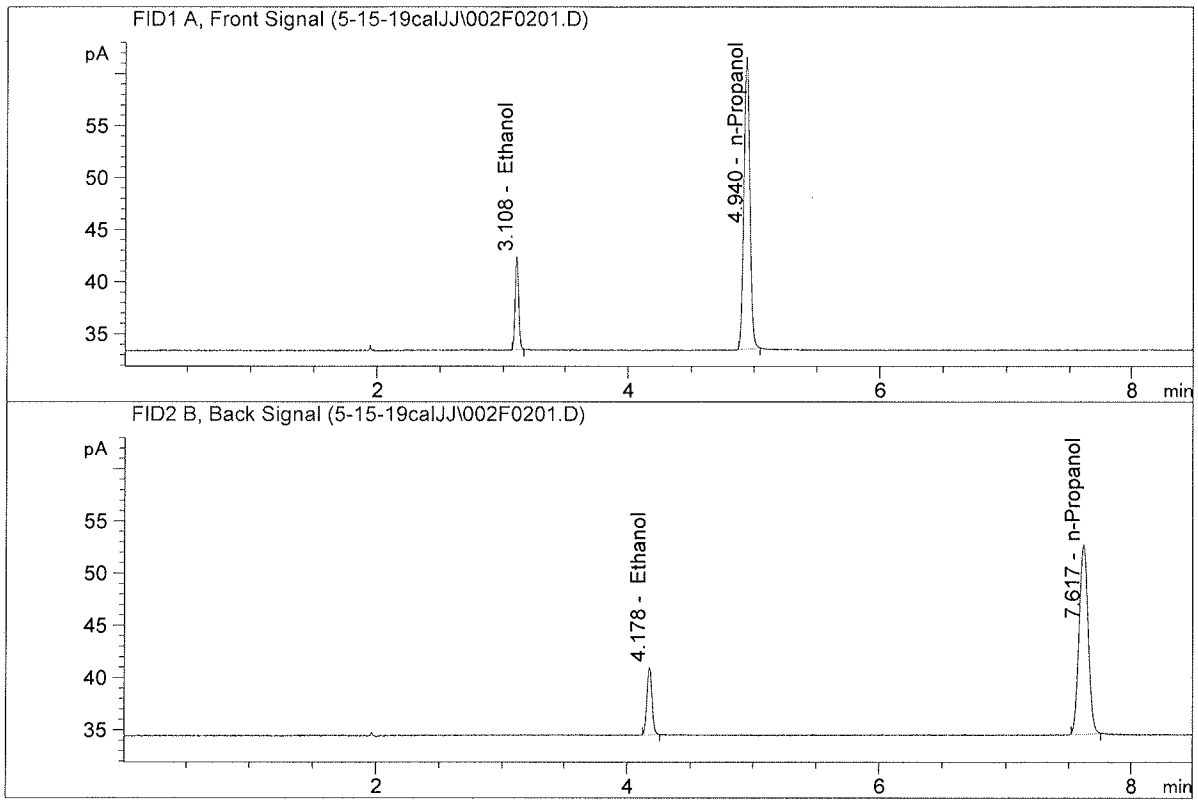
ISP Forensic Services Blood Alcohol Report

Sample Name : 0.100
Laboratory : Coeur d' Alene
Injection Date : May 15, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.48366	0.0996	g/100cc
2.	Ethanol	Column 2:	17.77187	0.0998	g/100cc
3.	n-Propanol	Column 1:	92.39546	1.0000	g/100cc
4.	n-Propanol	Column 2:	91.74358	1.0000	g/100cc

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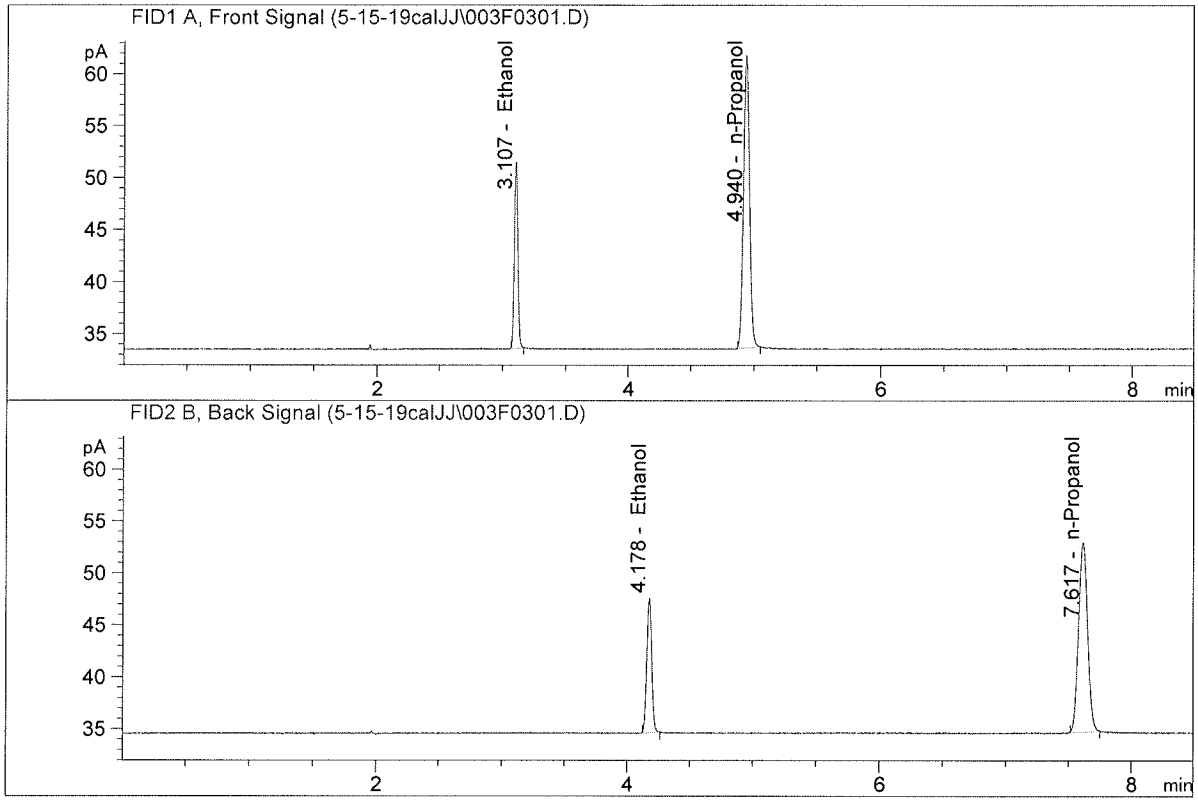
ISP Forensic Services Blood Alcohol Report

Sample Name : 0.200
Laboratory : Coeur d' Alene
Injection Date : May 15, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

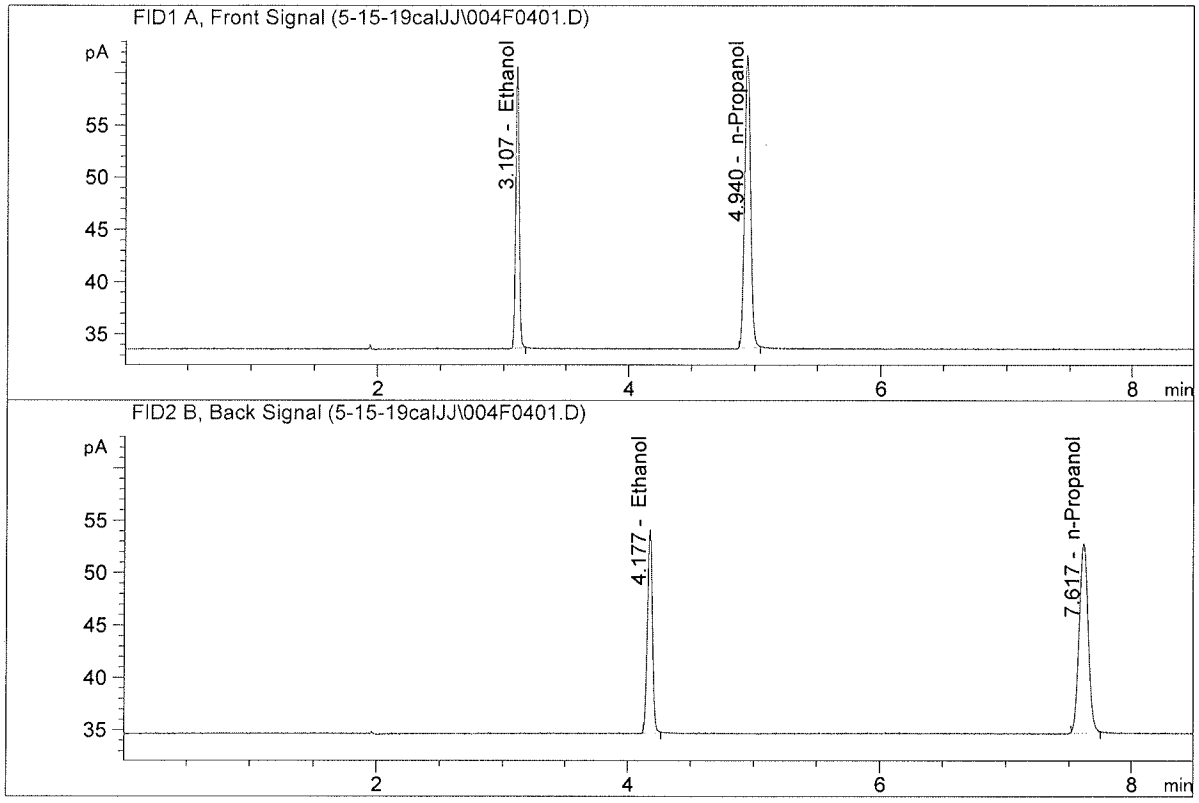


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	35.07230	0.1985	g/100cc
2.	Ethanol	Column 2:	35.50909	0.1984	g/100cc
3.	n-Propanol	Column 1:	92.98608	1.0000	g/100cc
4.	n-Propanol	Column 2:	92.23264	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.300
Laboratory : Coeur d' Alene
Injection Date : May 15, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

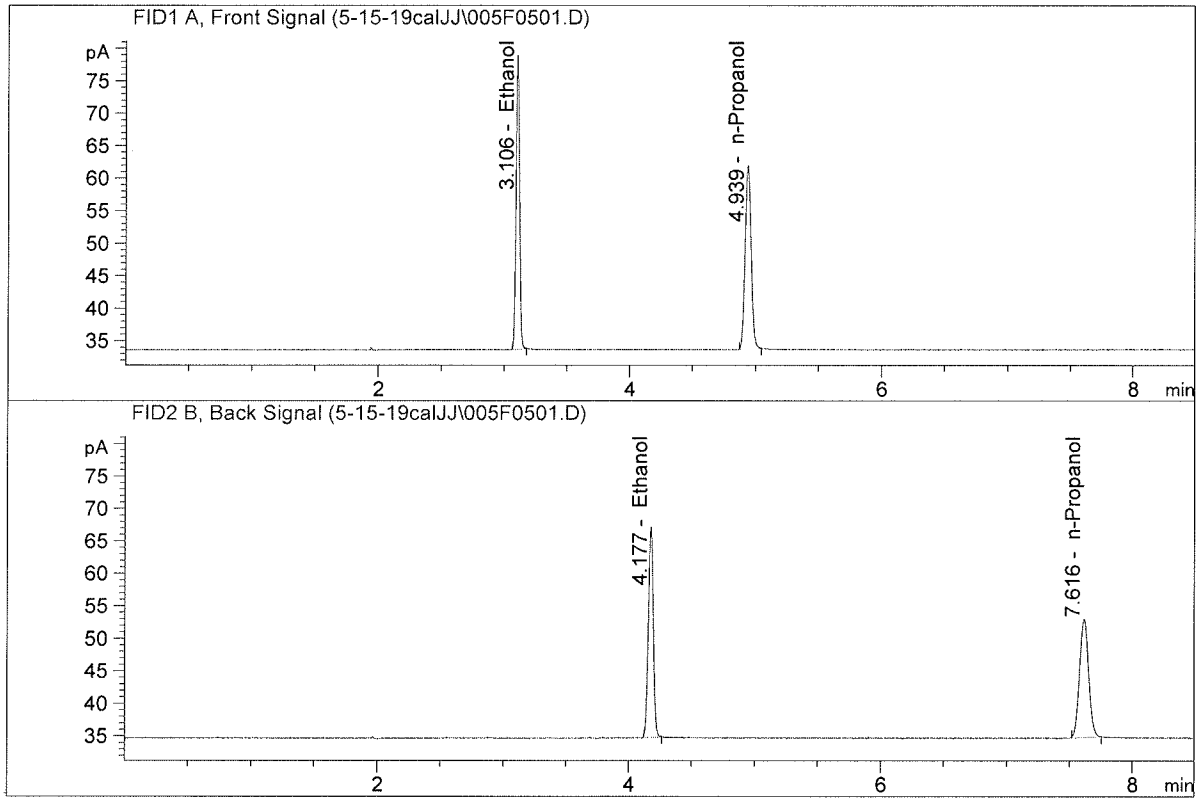


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	52.65460	0.3013	g/100cc
2.	Ethanol	Column 2:	53.15751	0.3004	g/100cc
3.	n-Propanol	Column 1:	91.97100	1.0000	g/100cc
4.	n-Propanol	Column 2:	91.16900	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

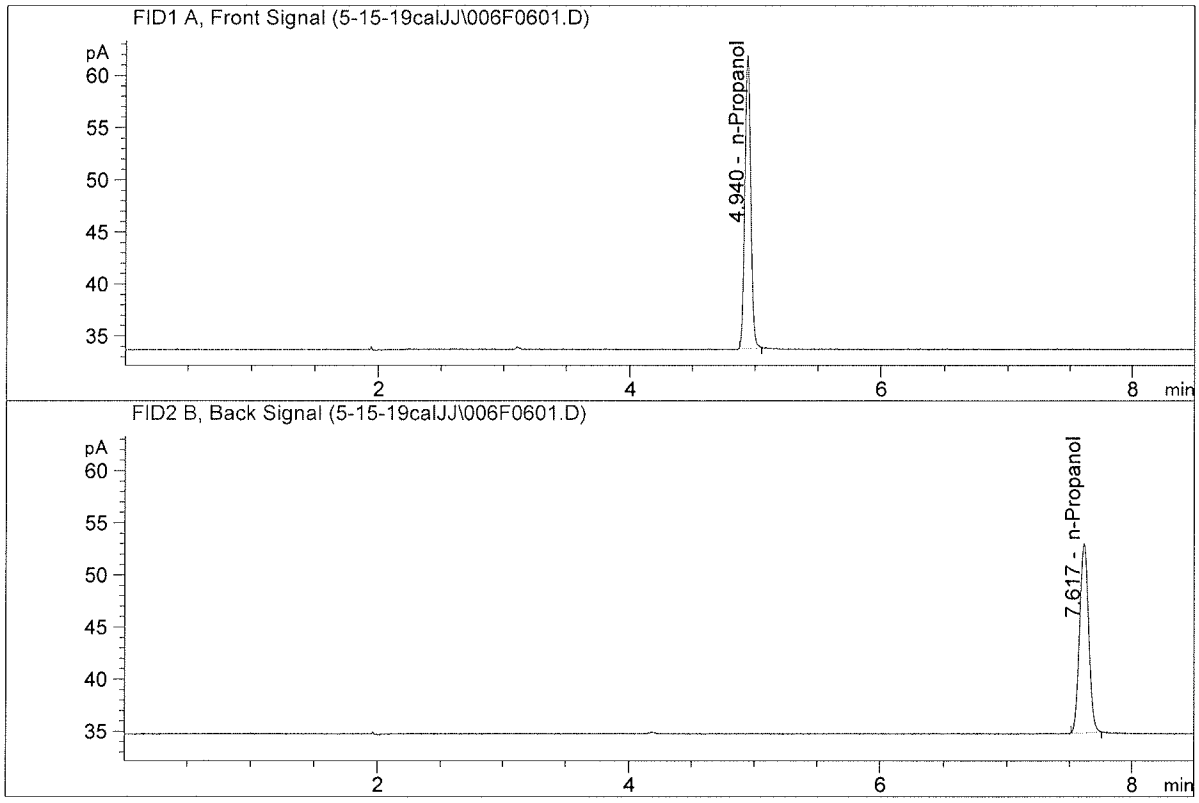
Sample Name : 0.500
Laboratory : Coeur d' Alene
Injection Date : May 15, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	87.92327	0.4999	g/100cc
2.	Ethanol	Column 2:	88.81397	0.5004	g/100cc
3.	n-Propanol	Column 1:	92.56152	1.0000	g/100cc
4.	n-Propanol	Column 2:	91.45116	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : blank
Laboratory : Coeur d' Alene
Injection Date : May 15, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

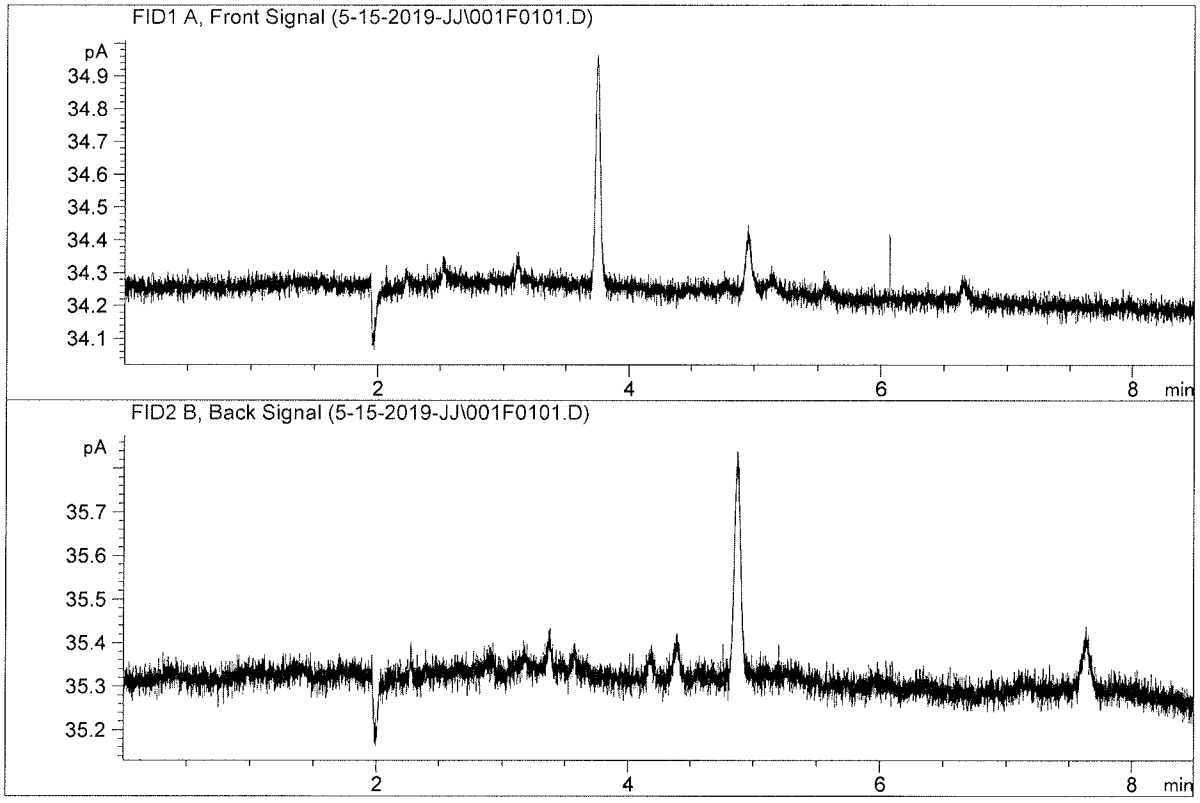


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	92.32535	1.0000	g/100cc
4.	n-Propanol	Column 2:	91.68954	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

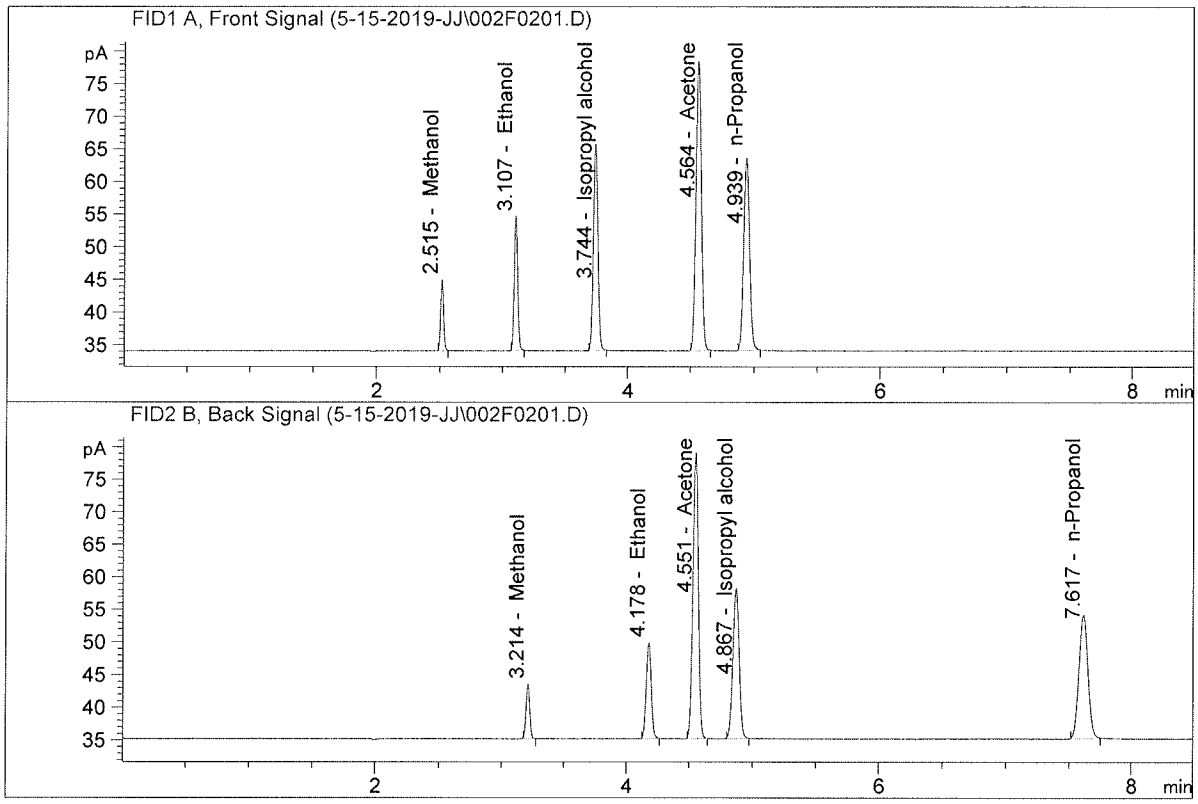
Sample Name : water
Laboratory : Coeur d' Alene
Injection Date : May 15, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	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

ISP Forensic Services Blood Alcohol Report

Sample Name : VOL MIX FN-06041502
Laboratory : Coeur d' Alene
Injection Date : May 15, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	40.07781	0.2187	g/100cc
2.	Ethanol	Column 2:	40.21603	0.2174	g/100cc
3.	n-Propanol	Column 1:	96.42471	1.0000	g/100cc
4.	n-Propanol	Column 2:	95.33738	1.0000	g/100cc

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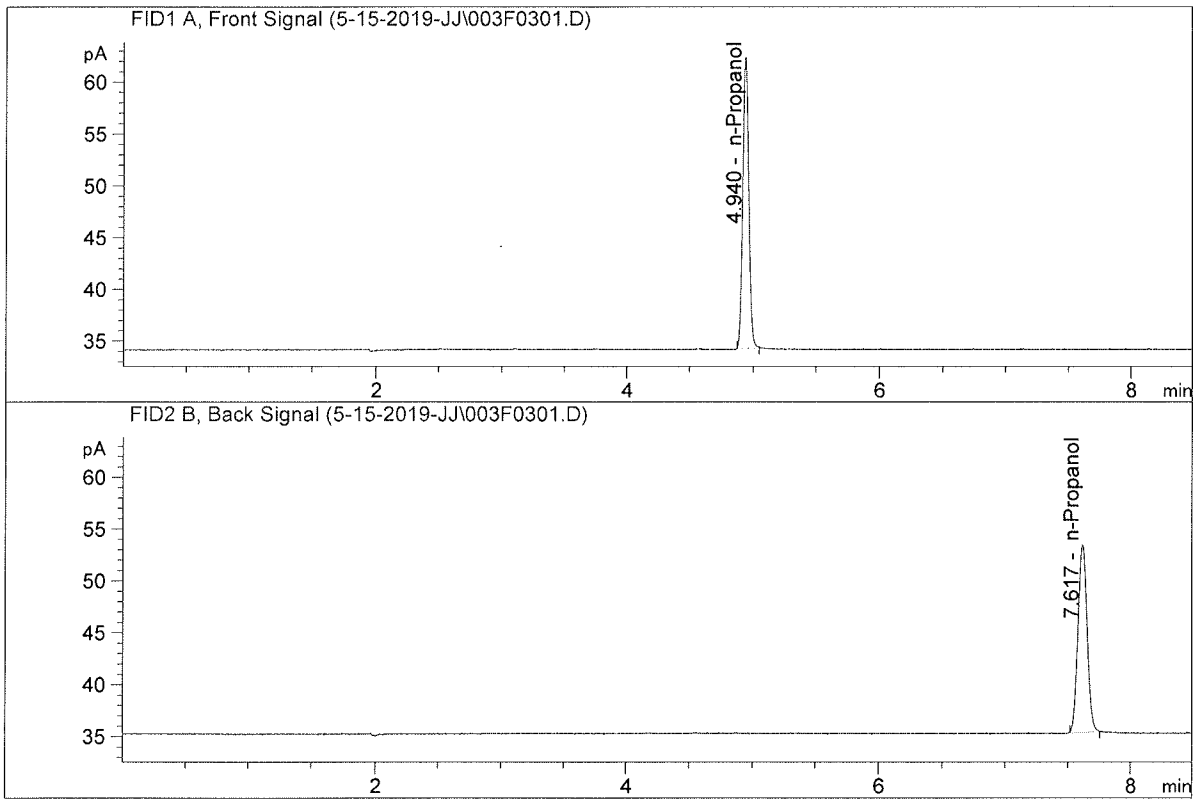
ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK
Laboratory : Coeur d' Alene
Injection Date : May 15, 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:	92.26603	1.0000	g/100cc
4.	n-Propanol	Column 2:	91.53362	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-2 **Analysis Date(s): 15 May 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1981	0.1970	0.0011	0.1975	0.1979	
(g/100cc)	0.1990	0.1977	0.0013	0.1983		

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
0.197	**0.187**	**0.207**	**0.010**

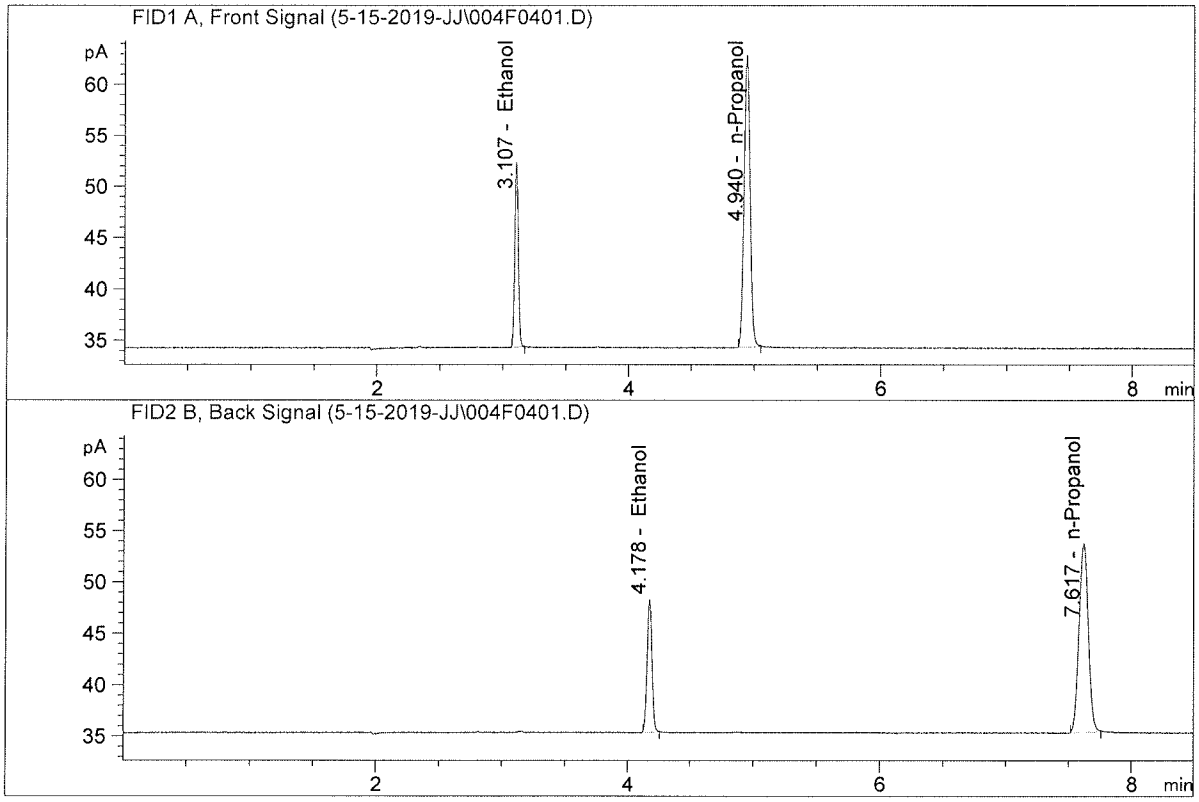
Reported Result

0.197

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-2-A
Laboratory : Coeur d' Alene
Injection Date : May 15, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

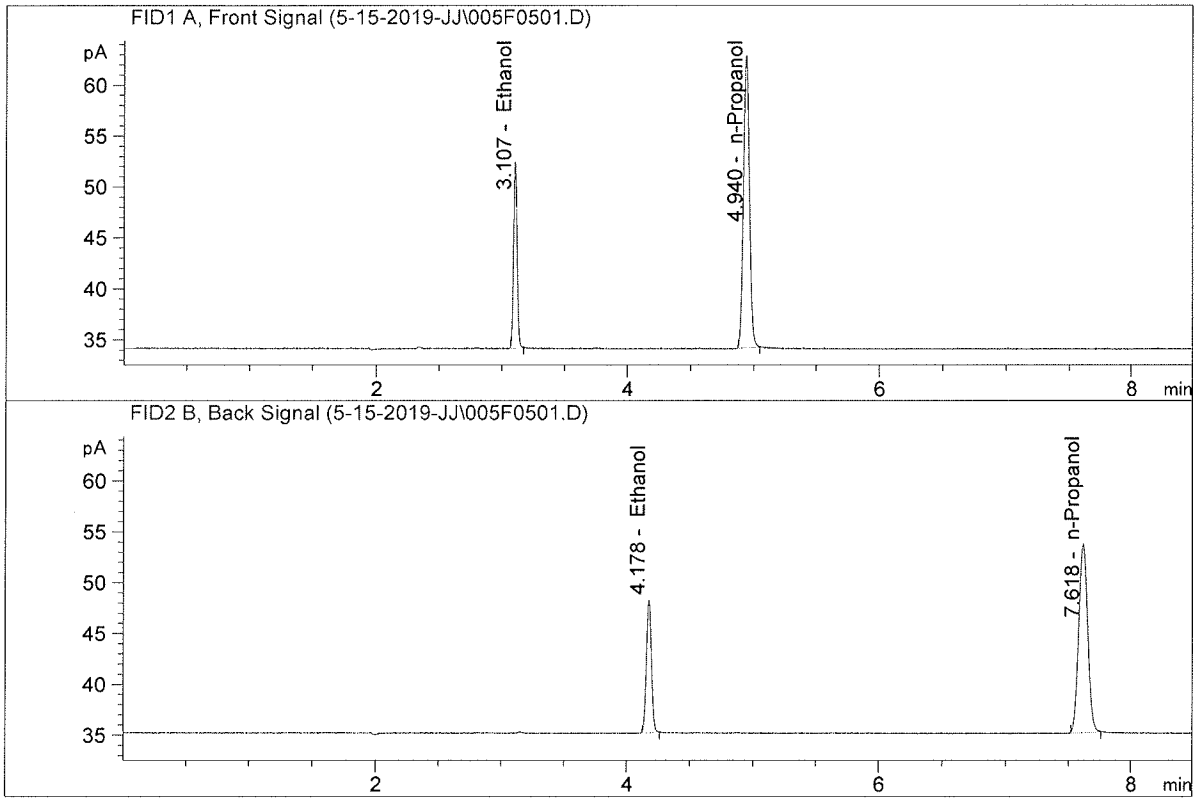


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	35.27734	0.1981	g/100cc
2.	Ethanol	Column 2:	35.41997	0.1970	g/100cc
3.	n-Propanol	Column 1:	93.73067	1.0000	g/100cc
4.	n-Propanol	Column 2:	92.64510	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-2-B
Laboratory : Coeur d' Alene
Injection Date : May 15, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	35.67572	0.1990	g/100cc
2.	Ethanol	Column 2:	35.85800	0.1977	g/100cc
3.	n-Propanol	Column 1:	94.34525	1.0000	g/100cc
4.	n-Propanol	Column 2:	93.45329	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN04171701 **Analysis Date(s): 15 May 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0821	0.0814	0.0007	0.0817	0.0807	
(g/100cc)	0.0802	0.0794	0.0008	0.0798		

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%**

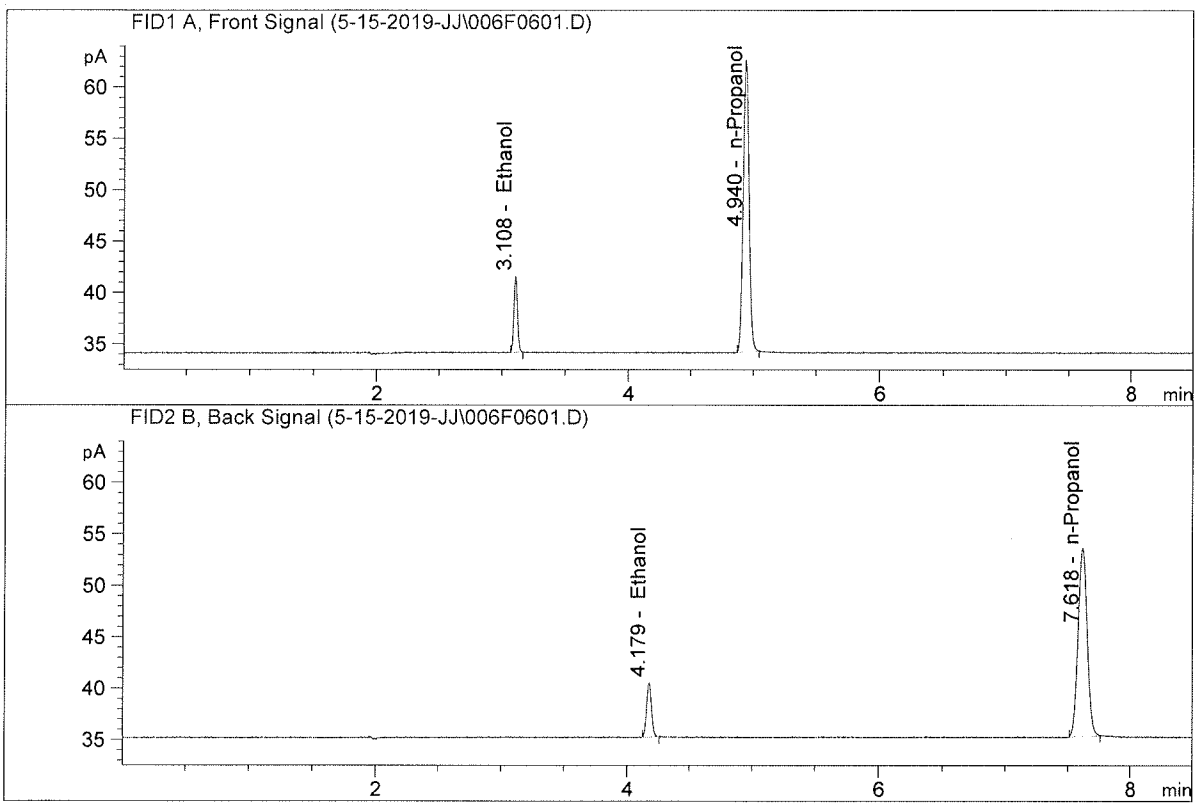
Overall Mean (g/100cc)	Low	High	5% of Mean
0.080	**0.076**	**0.084**	**0.004**

	Reported Result	
	0.080	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-A
Laboratory : Coeur d' Alene
Injection Date : May 15, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

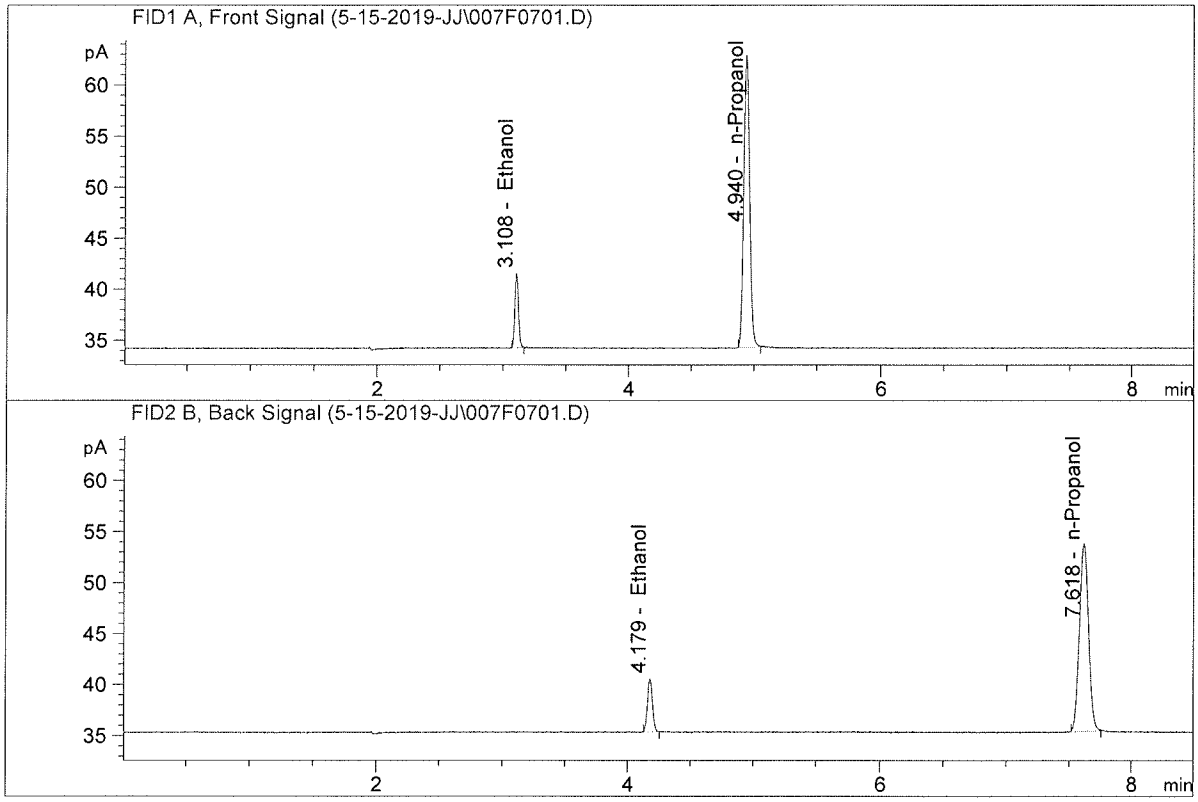


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.53549	0.0821	g/100cc
2.	Ethanol	Column 2:	14.58907	0.0814	g/100cc
3.	n-Propanol	Column 1:	93.21590	1.0000	g/100cc
4.	n-Propanol	Column 2:	92.32849	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-B
Laboratory : Coeur d' Alene
Injection Date : May 15, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.27840	0.0802	g/100cc
2.	Ethanol	Column 2:	14.30445	0.0794	g/100cc
3.	n-Propanol	Column 1:	93.72700	1.0000	g/100cc
4.	n-Propanol	Column 2:	92.84051	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1 **Analysis Date(s): 15 May 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0798	0.0793	0.0005	0.0795	0.0798	
(g/100cc)	0.0806	0.0798	0.0008	0.0802		

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
0.079	**0.075**	**0.083**	**0.004**

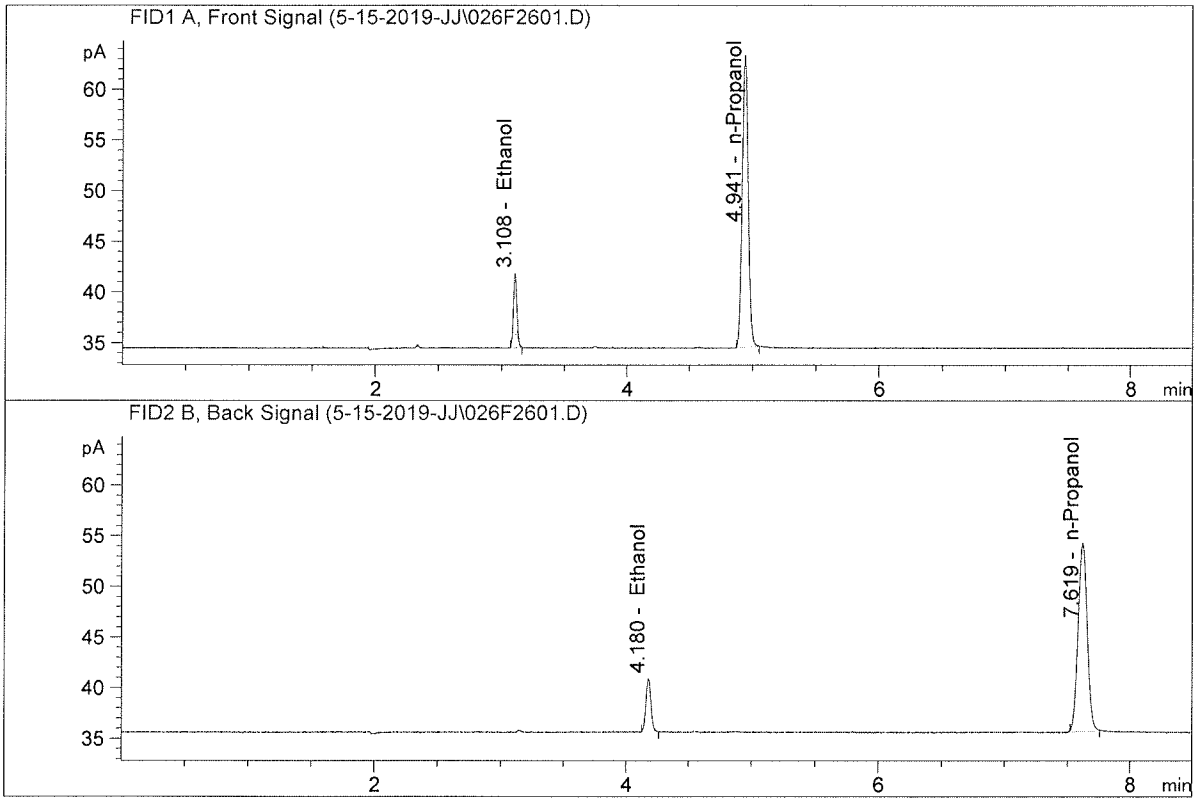
Reported Result

0.079

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

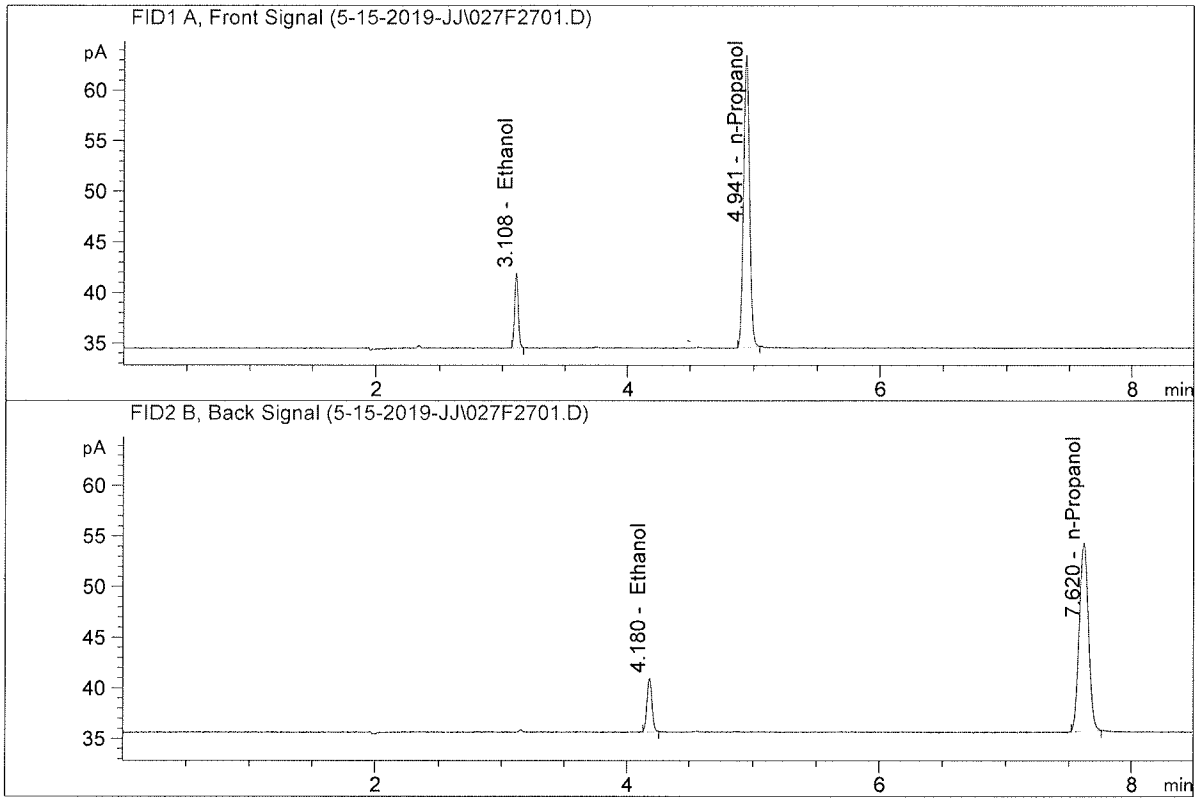
Sample Name : QC-1-A
Laboratory : Coeur d' Alene
Injection Date : May 15, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.35599	0.0798	g/100cc
2.	Ethanol	Column 2:	14.40038	0.0793	g/100cc
3.	n-Propanol	Column 1:	94.71336	1.0000	g/100cc
4.	n-Propanol	Column 2:	93.58649	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-B
Laboratory : Coeur d' Alene
Injection Date : May 15, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.53424	0.0806	g/100cc
2.	Ethanol	Column 2:	14.52000	0.0798	g/100cc
3.	n-Propanol	Column 1:	94.86010	1.0000	g/100cc
4.	n-Propanol	Column 2:	93.70963	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-2 **Analysis Date(s): 16 May 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2014	0.2004	0.0010	0.2009	0.2011	
(g/100cc)	0.2017	0.2011	0.0006	0.2014		

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
0.201	**0.190**	**0.212**	**0.011**

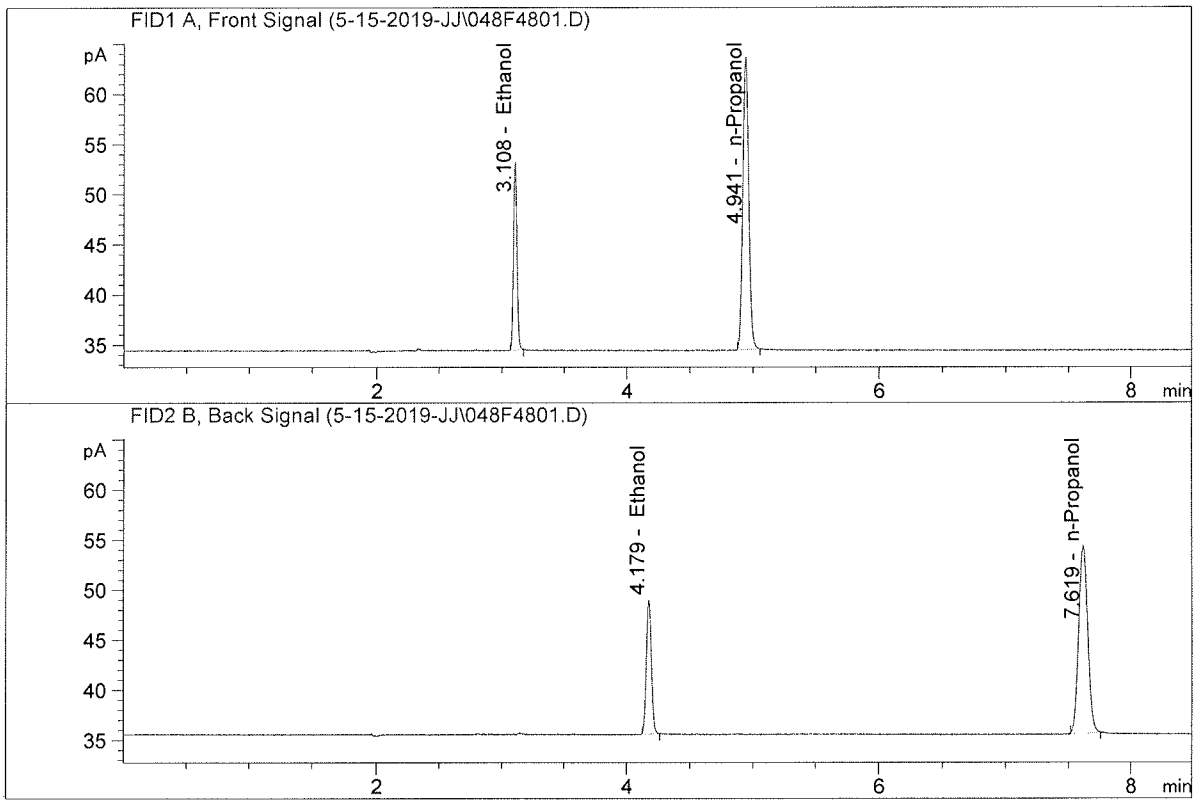
	Reported Result	
	0.201	

Calibration and control data are stored centrally.

99

ISP Forensic Services Blood Alcohol Report

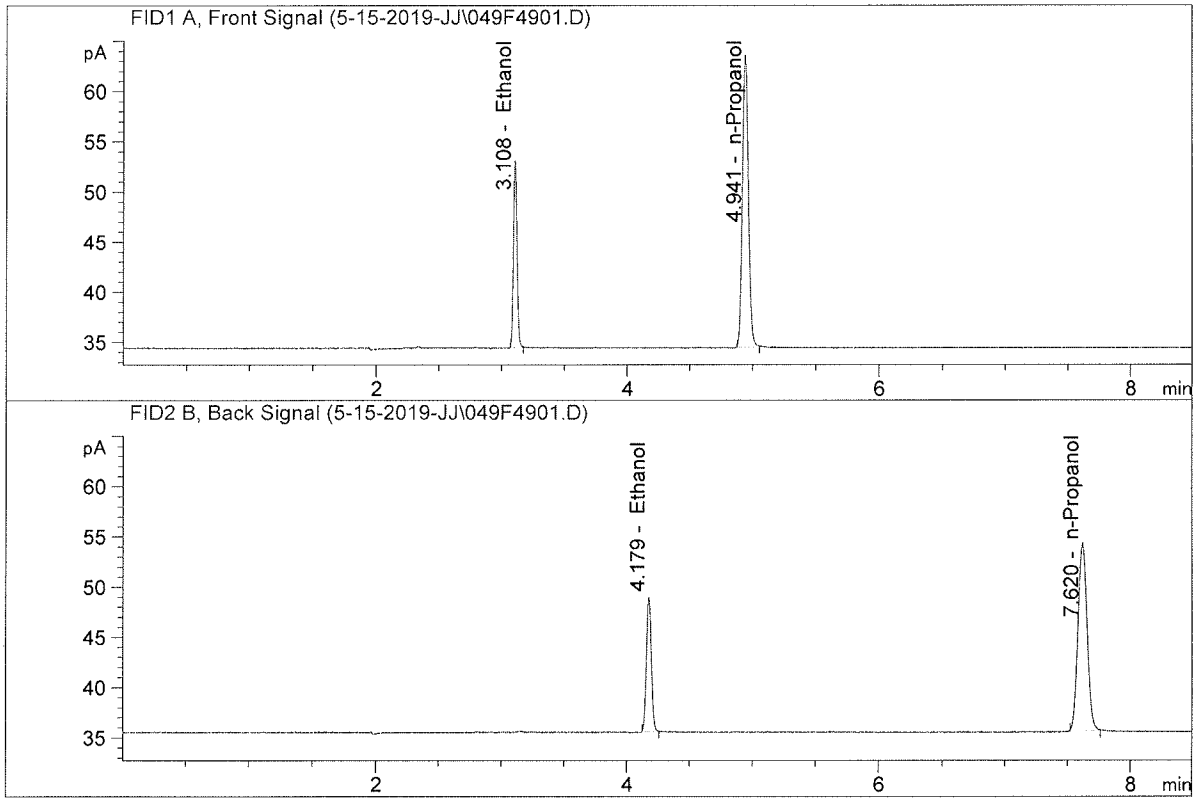
Sample Name : QC-2-A
Laboratory : Coeur d' Alene
Injection Date : May 16, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	36.73905	0.2014	g/100cc
2.	Ethanol	Column 2:	36.78028	0.2004	g/100cc
3.	n-Propanol	Column 1:	96.00435	1.0000	g/100cc
4.	n-Propanol	Column 2:	94.59087	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-2-B
Laboratory : Coeur d' Alene
Injection Date : May 16, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

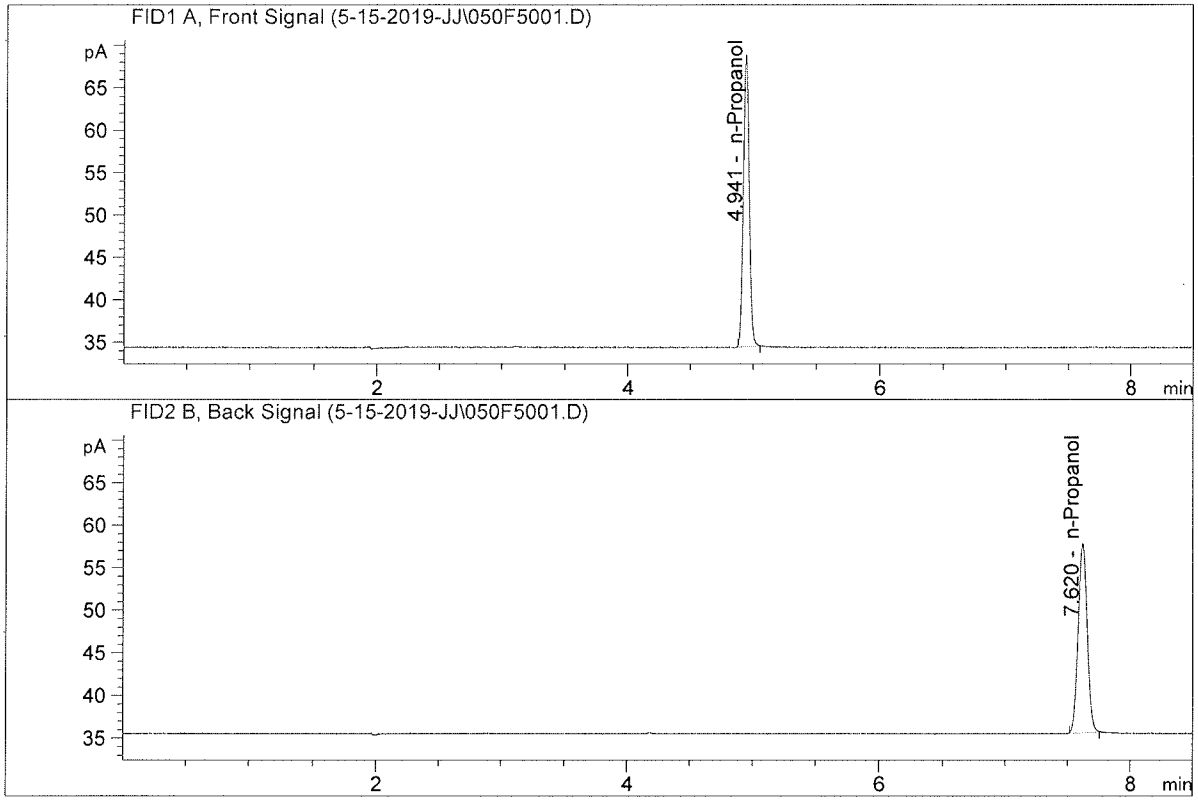


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	36.65639	0.2017	g/100cc
2.	Ethanol	Column 2:	36.78410	0.2011	g/100cc
3.	n-Propanol	Column 1:	95.63059	1.0000	g/100cc
4.	n-Propanol	Column 2:	94.26749	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

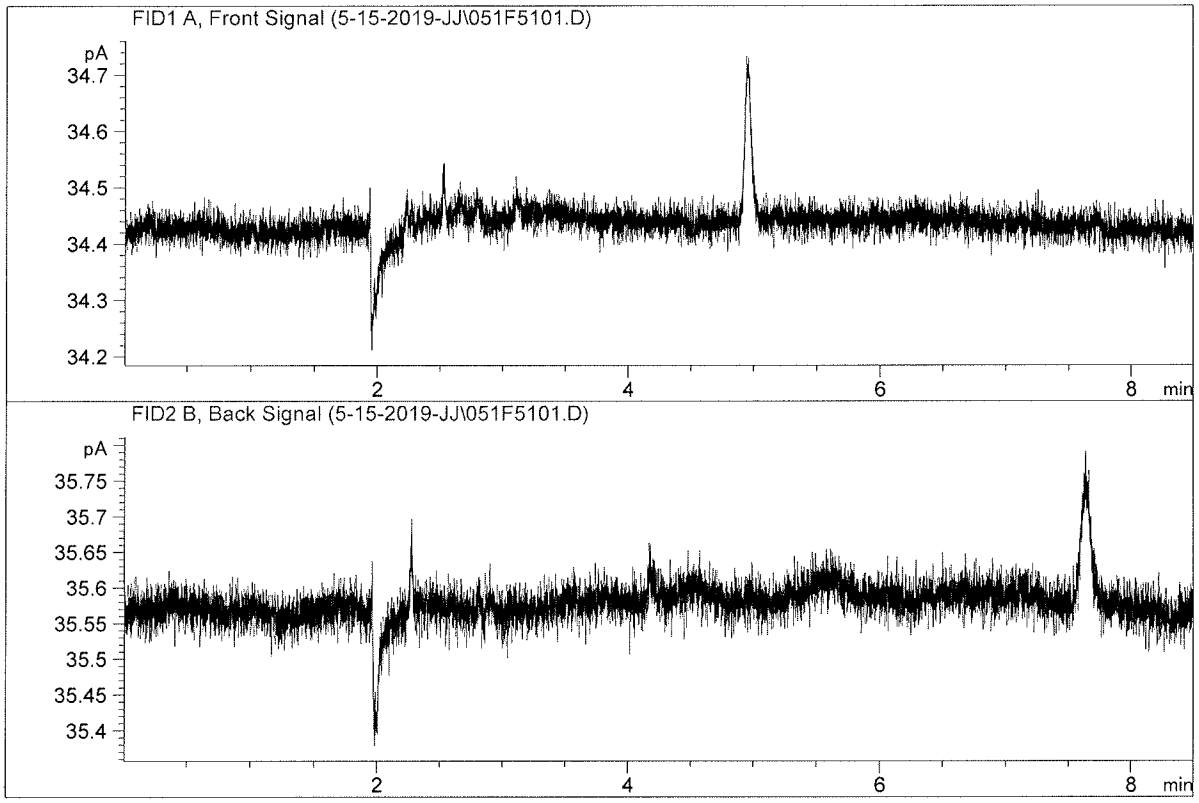
Sample Name : ISTD BLANK
Laboratory : Coeur d' Alene
Injection Date : May 16, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	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:	112.74951	1.0000	g/100cc
4.	n-Propanol	Column 2:	111.64189	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : water
Laboratory : Coeur d' Alene
Injection Date : May 16, 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