Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

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

Volatiles Quality Assurance Controls **Run Date(s):1/6/2018**

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-18	1407031	0.0780	0.0702-0.0858	0.0755 g/100cc
					g/100cc
					g/100cc
Level 2	Jul-18	1407032	0.2020	0.1818-0.2222	0.1920 g/100cc
					0.1943 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	**Expiration**	**Cerilliant Lot #**	**Target Value**	**Acceptable Range**	**Column 1**	**Column 2**	**Precision**	**Mean**
0.050	Jul-19	FN06231406	0.050	0.045 - 0.055	0.0499	0.0494	0.0005	0.0496
0.080							0	#DIV/0!
0.100	Mar-19	FN02021403	0.100	0.090 - 0.110	0.0991	0.0981	0.001	0.0986
0.200	Apr-21	FN03301601	0.200	0.180 - 0.220	0.1991	0.1986	0.0005	0.1988
0.300	Feb-21	FN02121601	0.300	0.270 - 0.330	0.3019	0.3012	0.0007	0.3015
0.400							0	#DIV/0!
0.500	Aug-19	FN07031402	0.500	0.450 - 0.550	0.4995	0.5003	0.0008	0.4999

Aqueous Controls					
Control level	**Expiration**	**Cerilliant Lot #**	**Target Value**	**Acceptable Range**	**Overall Results**
0.080	Oct-18	FN09051304	0.08000	0.076 - 0.084	0.079 g/100cc

~Any information on this document can be changed for laboratory use, except for the precision and mean determination fomulas.

Worklist: 2110

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
C2017-2467	1	101727	Alcohol Analysis
C2017-2478	1	101862	Alcohol Analysis
C2017-2493	1	102152	Alcohol Analysis
C2017-2493	2	102155	Alcohol Analysis
C2017-2496	1	102184	Alcohol Analysis
C2017-2505	1	102251	Alcohol Analysis
C2017-2539	1	102693	Alcohol Analysis
C2017-2547	1	102994	Alcohol Analysis
C2017-2548	1	102995	Alcohol Analysis
C2017-2549	1	103000	Alcohol Analysis
C2017-2558	1	103017	Alcohol Analysis
C2017-2573	1	103167	Alcohol Analysis
C2017-2590	1	103333	Alcohol Analysis
C2017-2591	1	103335	Alcohol Analysis
C2017-2597	1	103440	Alcohol Analysis
C2017-2603	1	103449	Alcohol Analysis
C2017-2620	1	103601	Alcohol Analysis
C2018-0001	1	103867	Alcohol Analysis
C2018-0006	1	103901	Alcohol Analysis

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Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_06.01.2018_11.53.44\1-6-2018.S
Data directory path: C:\Chem32\1\Data\1-6-2018-JJ
Logbook: C:\Chem32\1\Data\1-6-2018-JJ\1-6-2018.LOG
Sequence start: 1/6/2018 12:07:30 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 FN09051304-	-	1.0000	006F0601.D		4
7	7	1	0.08 FN09051304-	-	1.0000	007F0701.D		4
8	8	1	C2017-2467-1-A	-	1.0000	008F0801.D		4
9	9	1	C2017-2467-1-B	-	1.0000	009F0901.D		4
10	10	1	C2017-2478-1-A	-	1.0000	010F1001.D		6
11	11	1	C2017-2478-1-B	-	1.0000	011F1101.D		6
12	12	1	C2017-2493-1-A	-	1.0000	012F1201.D		4
13	13	1	C2017-2493-1-B	-	1.0000	013F1301.D		4
14	14	1	C2017-2493-2-A	-	1.0000	014F1401.D		4
15	15	1	C2017-2493-2-B	-	1.0000	015F1501.D		4
16	16	1	C2017-2496-1-A	-	1.0000	016F1601.D		2
17	17	1	C2017-2496-1-B	-	1.0000	017F1701.D		2
18	18	1	C2017-2505-1-A	-	1.0000	018F1801.D		4
19	19	1	C2017-2505-1-B	-	1.0000	019F1901.D		4
20	20	1	C2017-2539-1-A	-	1.0000	020F2001.D		4
21	21	1	C2017-2539-1-B	-	1.0000	021F2101.D		4
22	22	1	C2017-2547-1-A	-	1.0000	022F2201.D		2
23	23	1	C2017-2547-1-B	-	1.0000	023F2301.D		2
24	24	1	C2017-2548-1-A	-	1.0000	024F2401.D		4
25	25	1	C2017-2548-1-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	C2017-2549-1-A	-	1.0000	028F2801.D		4
29	29	1	C2017-2549-1-B	-	1.0000	029F2901.D		4
30	30	1	C2017-2558-1-A	-	1.0000	030F3001.D		4
31	31	1	C2017-2558-1-B	-	1.0000	031F3101.D		4
32	32	1	C2017-2573-1-A	-	1.0000	032F3201.D		6
33	33	1	C2017-2573-1-B	-	1.0000	033F3301.D		6
34	34	1	C2017-2590-1-A	-	1.0000	034F3401.D		4
35	35	1	C2017-2590-1-B	-	1.0000	035F3501.D		4
36	36	1	C2017-2591-1-A	-	1.0000	036F3601.D		2
37	37	1	C2017-2591-1-B	-	1.0000	037F3701.D		2
38	38	1	C2017-2597-1-A	-	1.0000	038F3801.D		4
39	39	1	C2017-2597-1-B	-	1.0000	039F3901.D		4
40	40	1	C2017-2603-1-A	-	1.0000	040F4001.D		6
41	41	1	C2017-2603-1-B	-	1.0000	041F4101.D		6
42	42	1	C2017-2620-1-A	-	1.0000	042F4201.D		2
43	43	1	C2017-2620-1-B	-	1.0000	043F4301.D		2
44	44	1	C2018-0001-1-A	-	1.0000	044F4401.D		4
45	45	1	C2018-0001-1-B	-	1.0000	045F4501.D		4
46	46	1	C2018-0006-1-A	-	1.0000	046F4601.D		4

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Sequence File C:\Chem32\1\TEMP\AESEQ\QS_06.01.2018_11.53.44\1-6-2018.S

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
47	47	1	C2018-0006-1-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

Calibration Table

General Calibration Setting

Calib. Data Modified : Saturday, January 06, 2018 11:41:03 AM
Signals calculated separately : No

Rel. Reference Window : 0.000 %
Abs. Reference Window : 0.100 min
Rel. Non-ref. Window : 0.000 %
Abs. Non-ref. Window : 0.100 min
Uncalibrated Peaks : not reported
Partial Calibration : 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

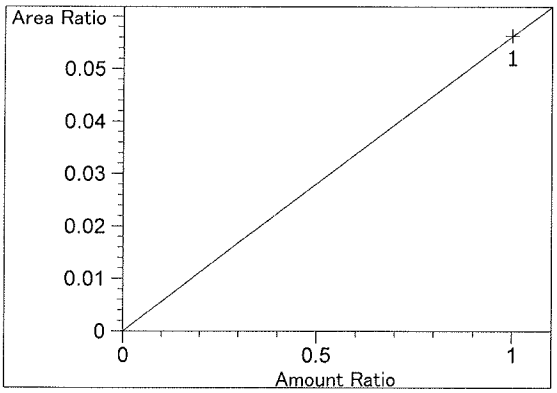
Overview Table

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
3.103	1	1	5.00000e-2	8.55622	5.84370e-3	No	No	1	Ethanol
		2	1.00000e-1	17.72610	5.64140e-3				
		3	2.00000e-1	36.37988	5.49754e-3				
		4	3.00000e-1	55.01932	5.45263e-3				
		5	5.00000e-1	92.83871	5.38568e-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
4.172	2	1	5.00000e-2	8.50298	5.88029e-3	No	No	2	Ethanol
		2	1.00000e-1	17.60808	5.67921e-3				
		3	2.00000e-1	36.27268	5.51379e-3				
		4	3.00000e-1	54.79495	5.47496e-3				
		5	5.00000e-1	92.58683	5.40034e-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
4.933	1	1	1.00000	89.90529	1.11228e-2	No	Yes	1	n-Propanol
		2	1.00000	93.72746	1.06692e-2				
		3	1.00000	95.73653	1.04453e-2				
		4	1.00000	95.47015	1.04745e-2				
		5	1.00000	97.36933	1.02702e-2				
7.606	2	1	1.00000	88.92274	1.12457e-2	No	Yes	2	n-Propanol
		2	1.00000	92.61573	1.07973e-2				
		3	1.00000	94.28687	1.06059e-2				
		4	1.00000	93.89047	1.06507e-2				
		5	1.00000	95.52538	1.04684e-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: 5.62286e-2
x: Amount Ratio
y: Area Ratio

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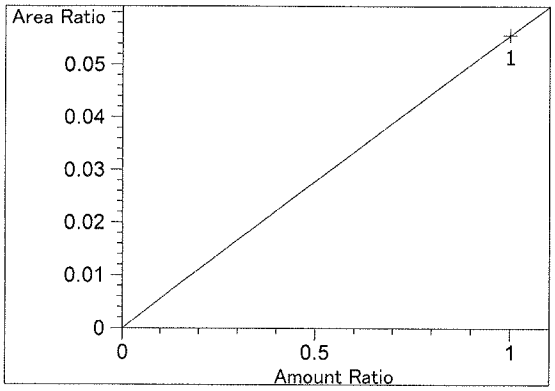
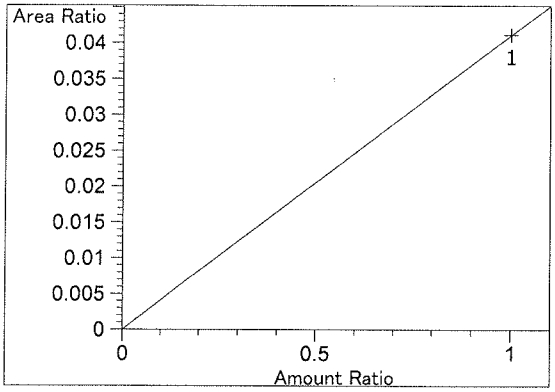
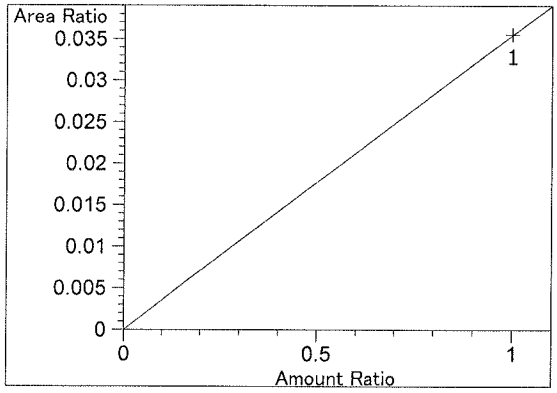


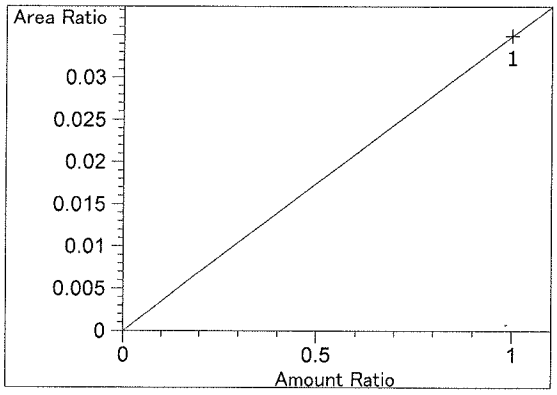
Difluoroethane at exp. RT: 2.000
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 5.56141e-2
x: Amount Ratio
y: Area Ratio



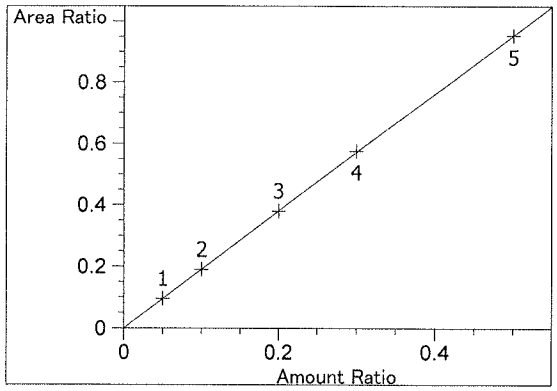
Methanol at exp. RT: 2.494
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 4.11177e-2
x: Amount Ratio
y: Area Ratio



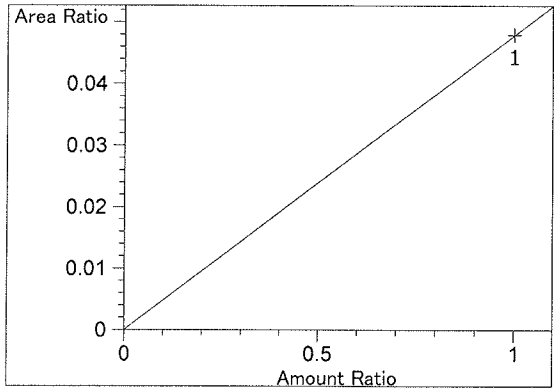
Acetaldehyde at exp. RT: 2.772
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 3.55164e-2
x: Amount Ratio
y: Area Ratio



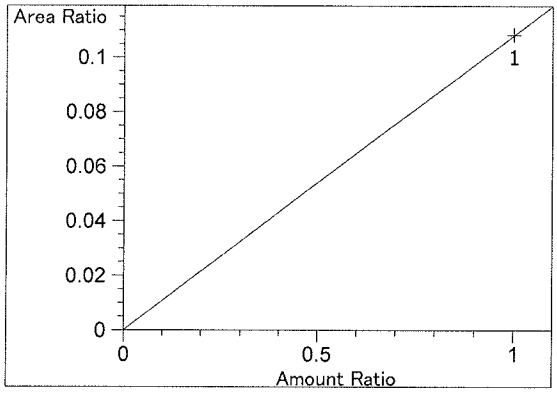
Acetaldehyde at exp. RT: 2.797
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 3.49264e-2
x: Amount Ratio
y: Area Ratio



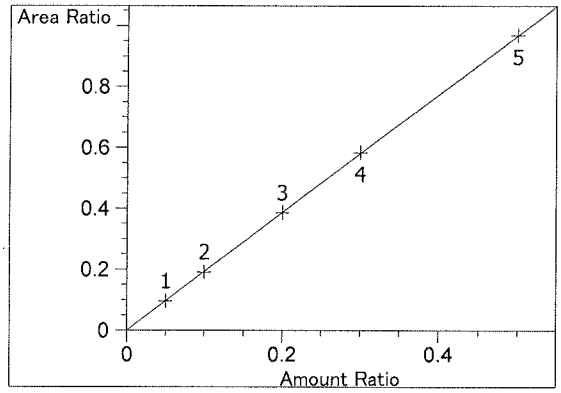
Ethanol at exp. RT: 3.103
FID1 A, Front Signal
Correlation: 0.99999
Residual Std. Dev.: 0.00226
Formula: y = mx
m: 1.90903
x: Amount Ratio
y: Area Ratio



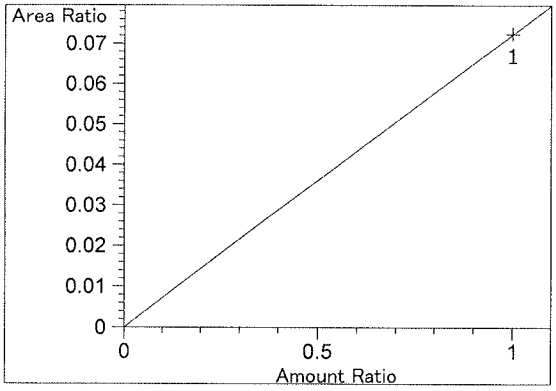
Methanol at exp. RT: 3.211
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 4.79138e-2
x: Amount Ratio
y: Area Ratio



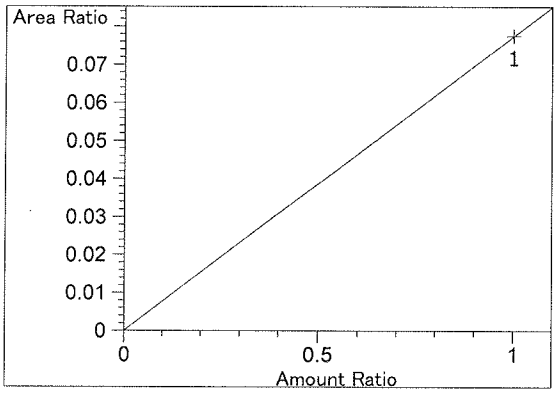
Isopropyl alcohol at exp. RT: 3.715
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.08231e-1
x: Amount Ratio
y: Area Ratio



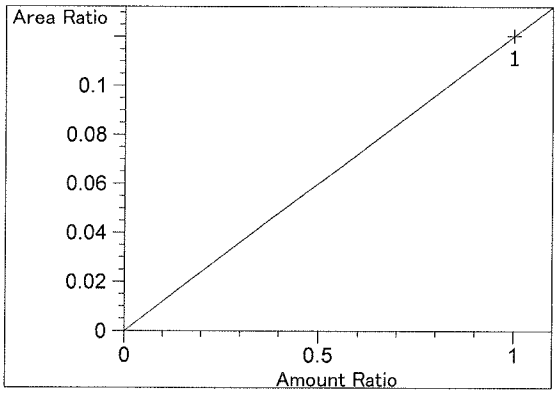
Ethanol at exp. RT: 4.172
FID2 B, Back Signal
Correlation: 0.99999
Residual Std. Dev.: 0.00266
Formula: y = mx
m: 1.93741
x: Amount Ratio
y: Area Ratio



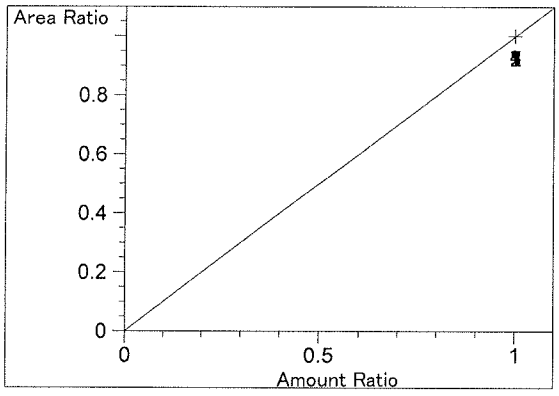
Acetone at exp. RT: 4.530
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 7.22916e-2
x: Amount Ratio
y: Area Ratio



Acetone at exp. RT: 4.549
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 7.75168e-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: 1.20401e-1
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 4.933
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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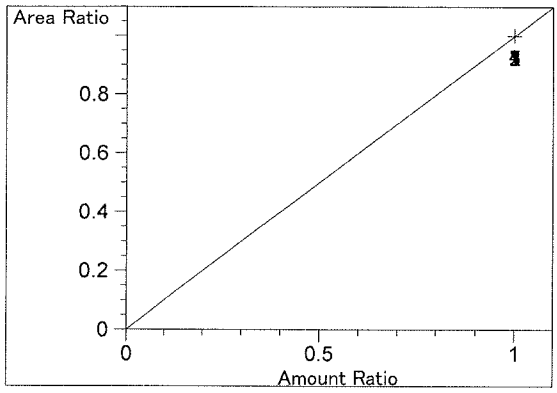

n-Propanol at exp. RT: 7.606
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.00000
x: Amount Ratio
y: Area Ratio

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Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_06.01.2018_10.23.15\1-6-18cal.S
Data directory path: C:\Chem32\1\Data\1-6-18calJJ
Logbook: C:\Chem32\1\Data\1-6-18calJJ\1-6-18cal.LOG
Sequence start: 1/6/2018 10:36:56 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	0.05	-	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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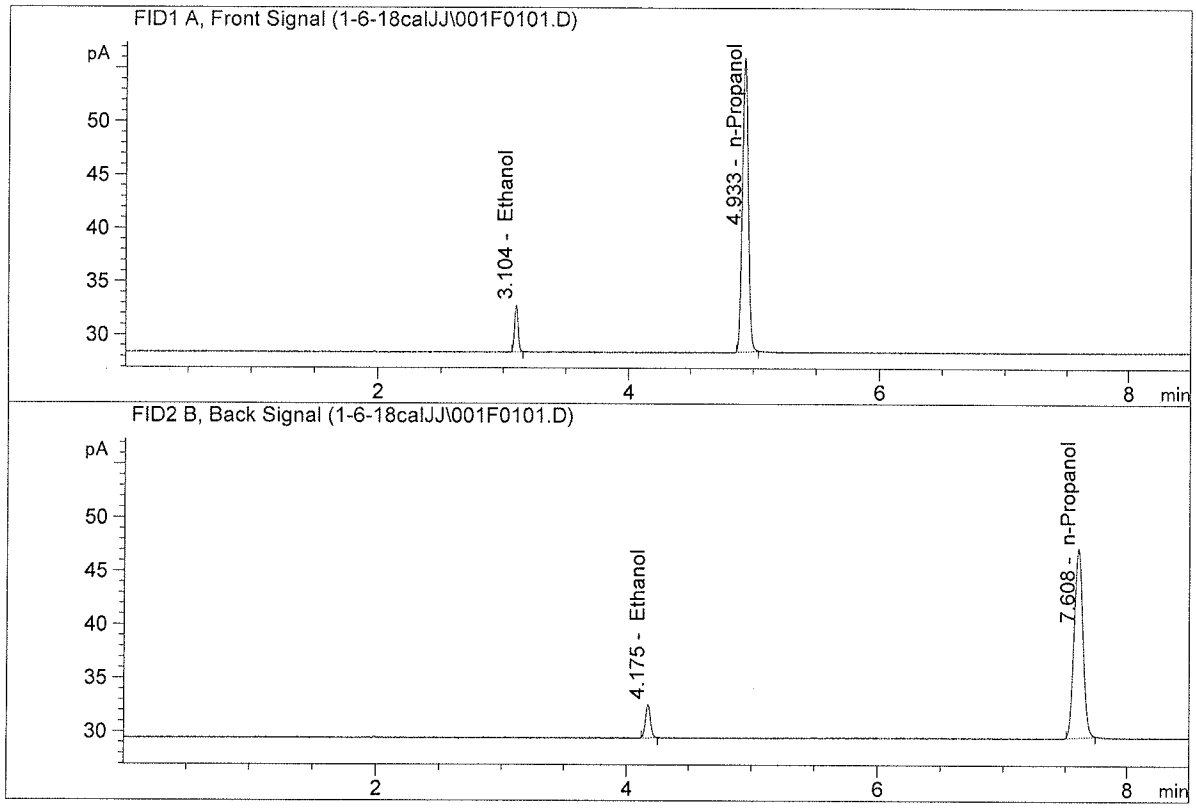
ISP Forensic Services Blood Alcohol Report

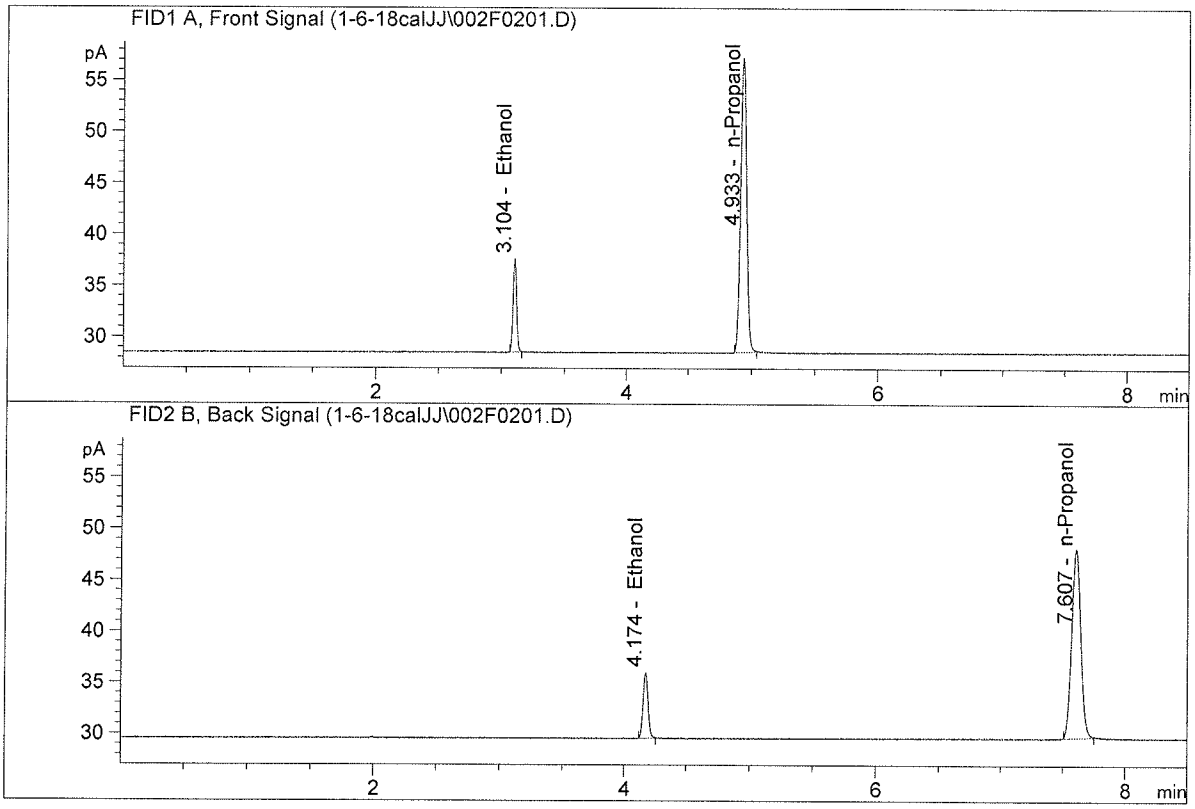
Sample Name : 0.05
Laboratory : Coeur d' Alene
Injection Date : Jan 6, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.55622	0.0499	g/100cc
2.	Ethanol	Column 2:	8.50298	0.0494	g/100cc
3.	n-Propanol	Column 1:	89.90529	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.92274	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

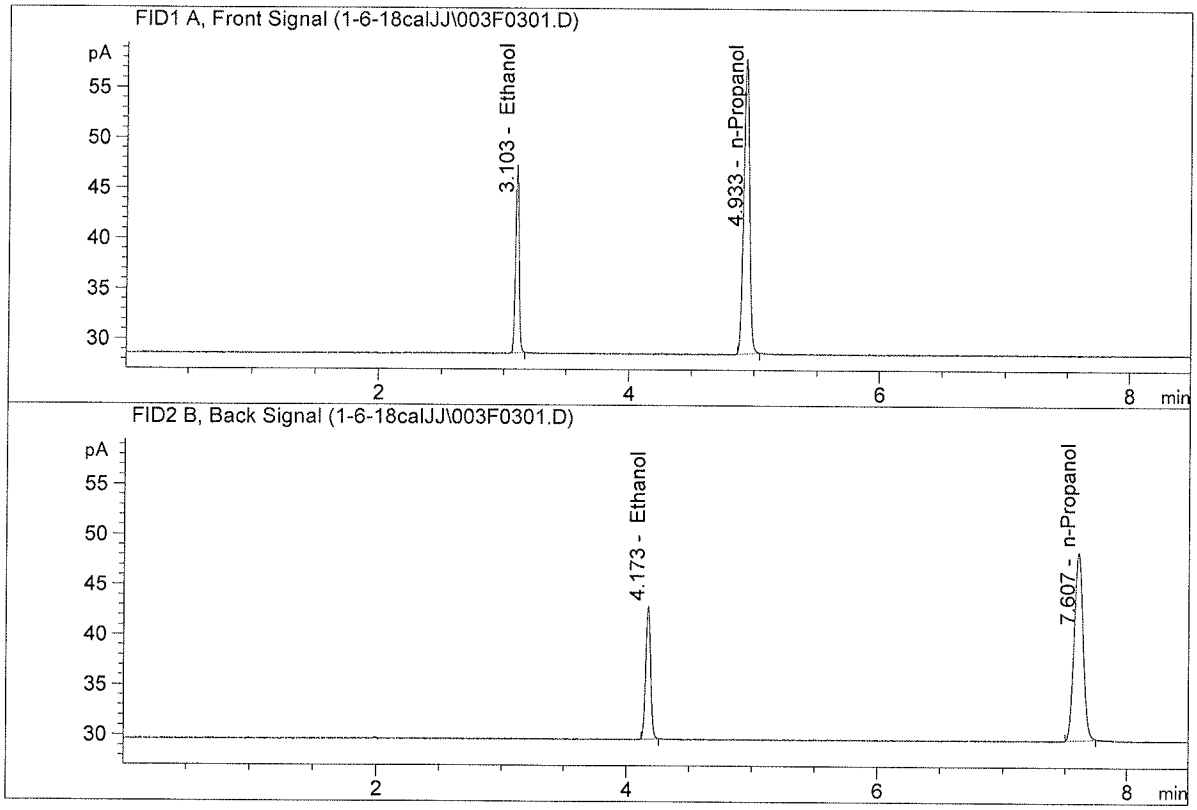
Sample Name : 0.100
Laboratory : Coeur d' Alene
Injection Date : Jan 6, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.72610	0.0991	g/100cc
2.	Ethanol	Column 2:	17.60808	0.0981	g/100cc
3.	n-Propanol	Column 1:	93.72746	1.0000	g/100cc
4.	n-Propanol	Column 2:	92.61573	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

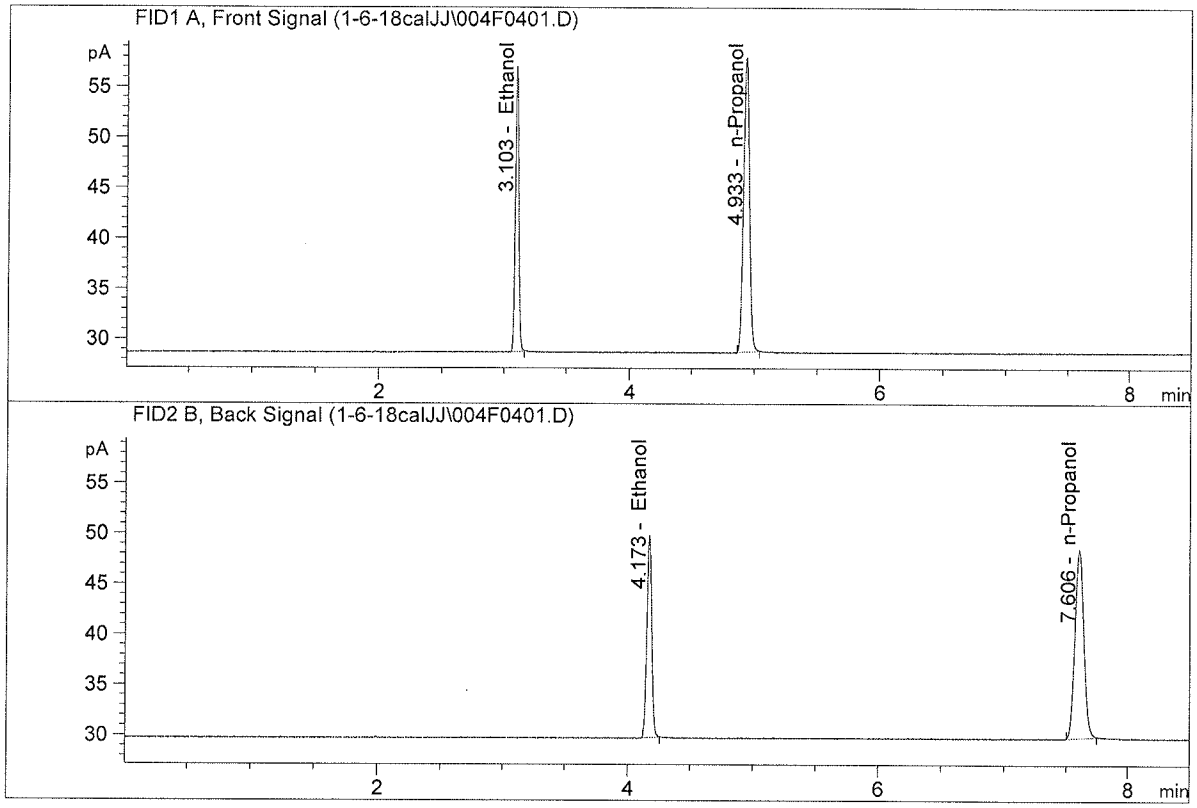
Sample Name : 0.200
Laboratory : Coeur d' Alene
Injection Date : Jan 6, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	36.37988	0.1991	g/100cc
2.	Ethanol	Column 2:	36.27268	0.1986	g/100cc
3.	n-Propanol	Column 1:	95.73653	1.0000	g/100cc
4.	n-Propanol	Column 2:	94.28687	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.300
Laboratory : Coeur d' Alene
Injection Date : Jan 6, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	55.01932	0.3019	g/100cc
2.	Ethanol	Column 2:	54.79495	0.3012	g/100cc
3.	n-Propanol	Column 1:	95.47015	1.0000	g/100cc
4.	n-Propanol	Column 2:	93.89047	1.0000	g/100cc

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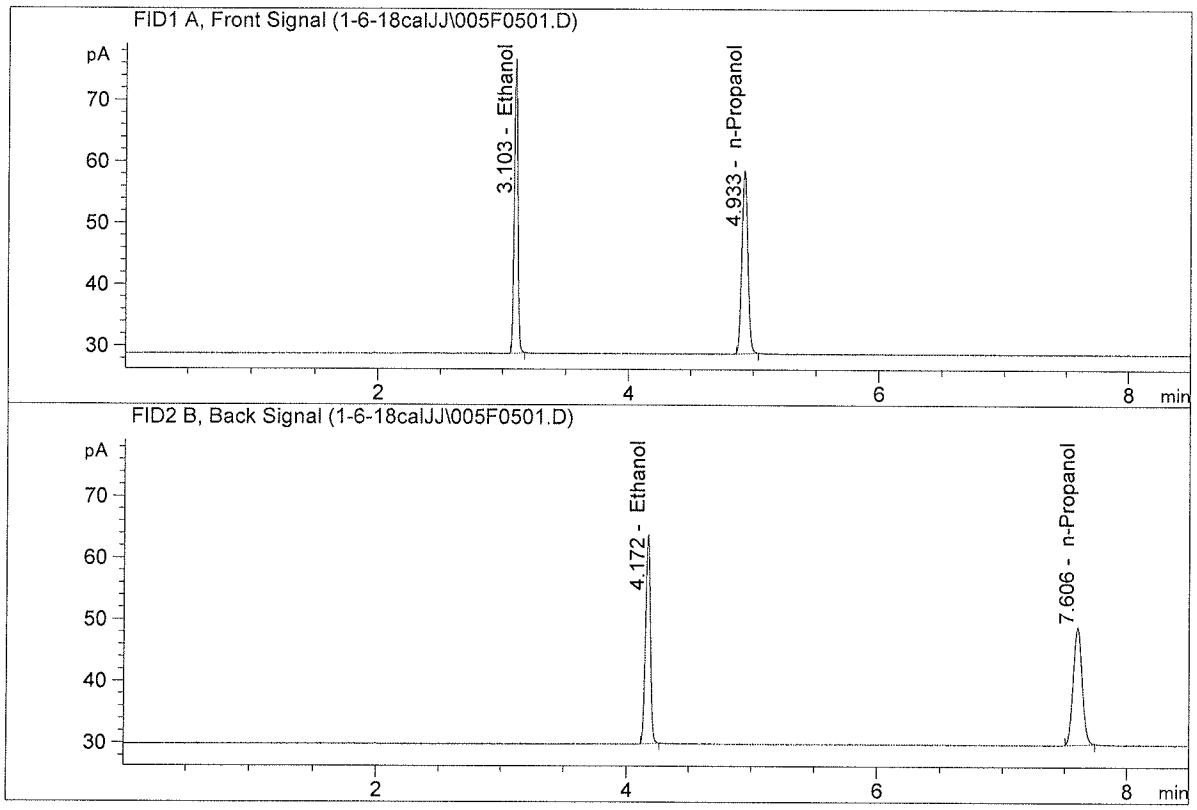
ISP Forensic Services Blood Alcohol Report

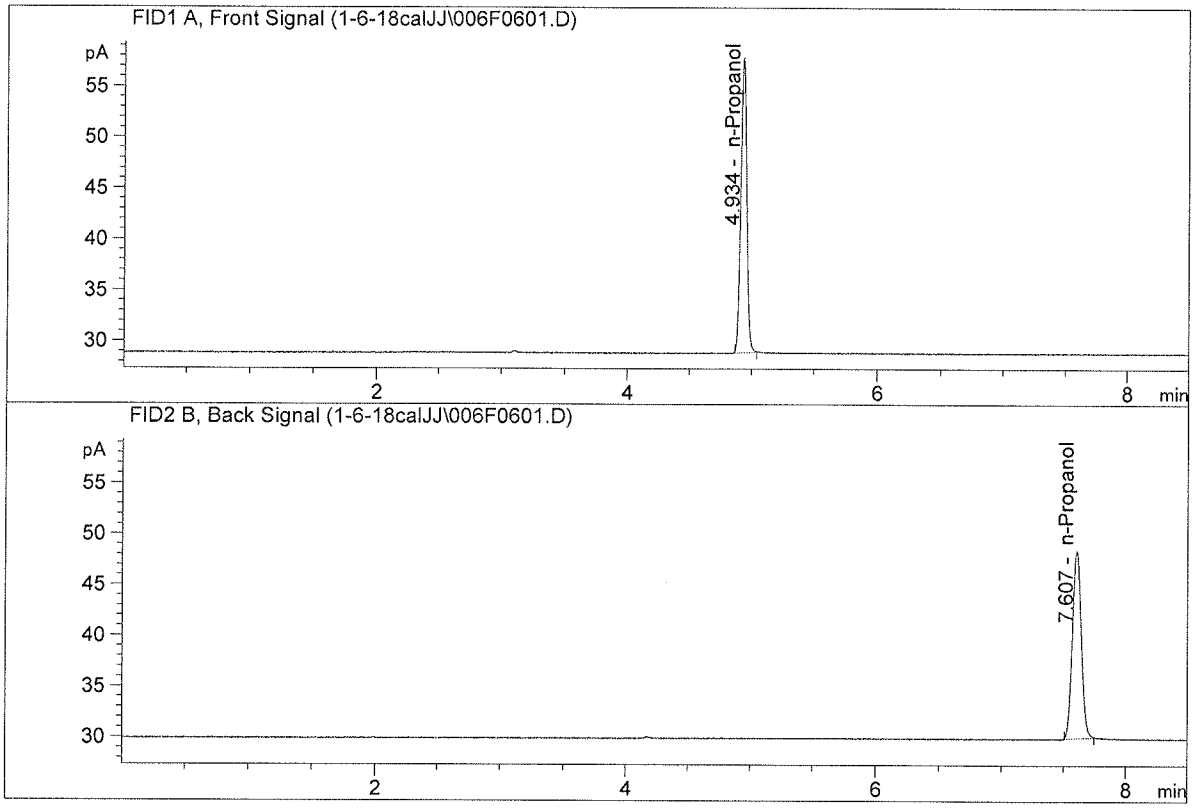
Sample Name : 0.500
Laboratory : Coeur d' Alene
Injection Date : Jan 6, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	92.83871	0.4995	g/100cc
2.	Ethanol	Column 2:	92.58683	0.5003	g/100cc
3.	n-Propanol	Column 1:	97.36933	1.0000	g/100cc
4.	n-Propanol	Column 2:	95.52538	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

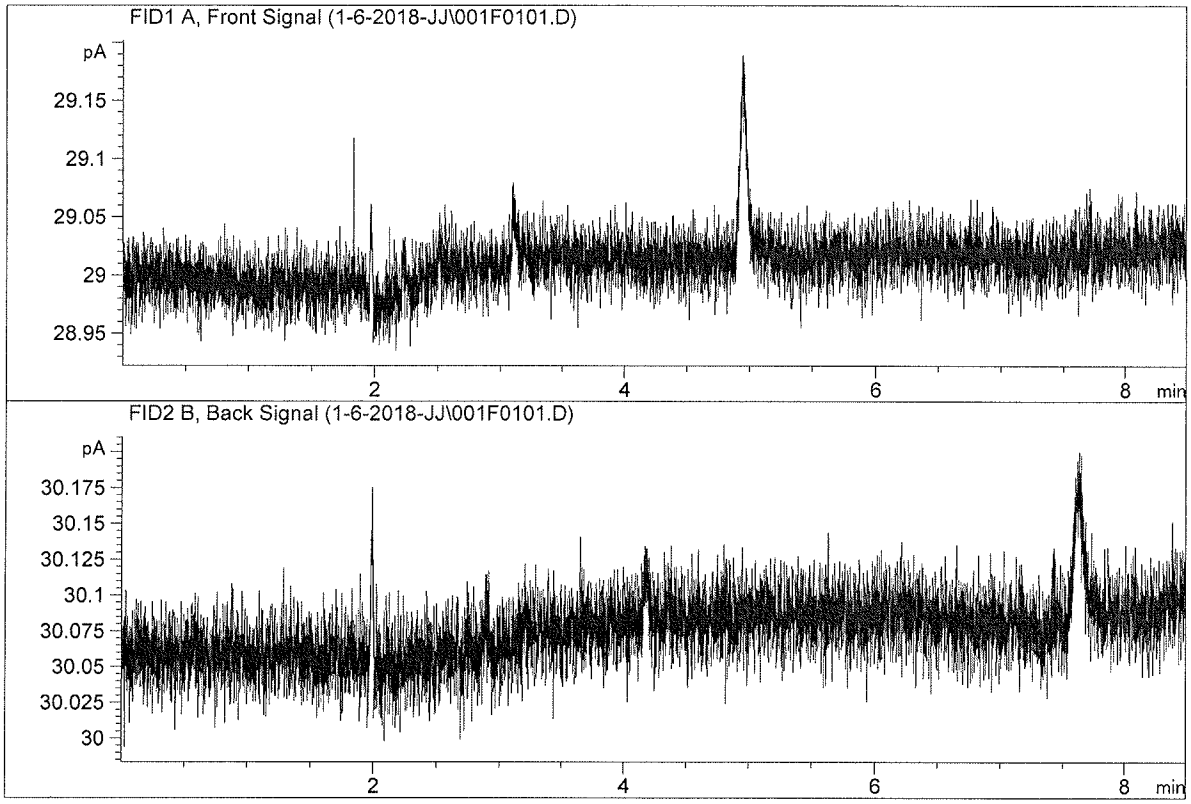
Sample Name : blank
Laboratory : Coeur d' Alene
Injection Date : Jan 6, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	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:	94.38680	1.0000	g/100cc
4.	n-Propanol	Column 2:	93.14293	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

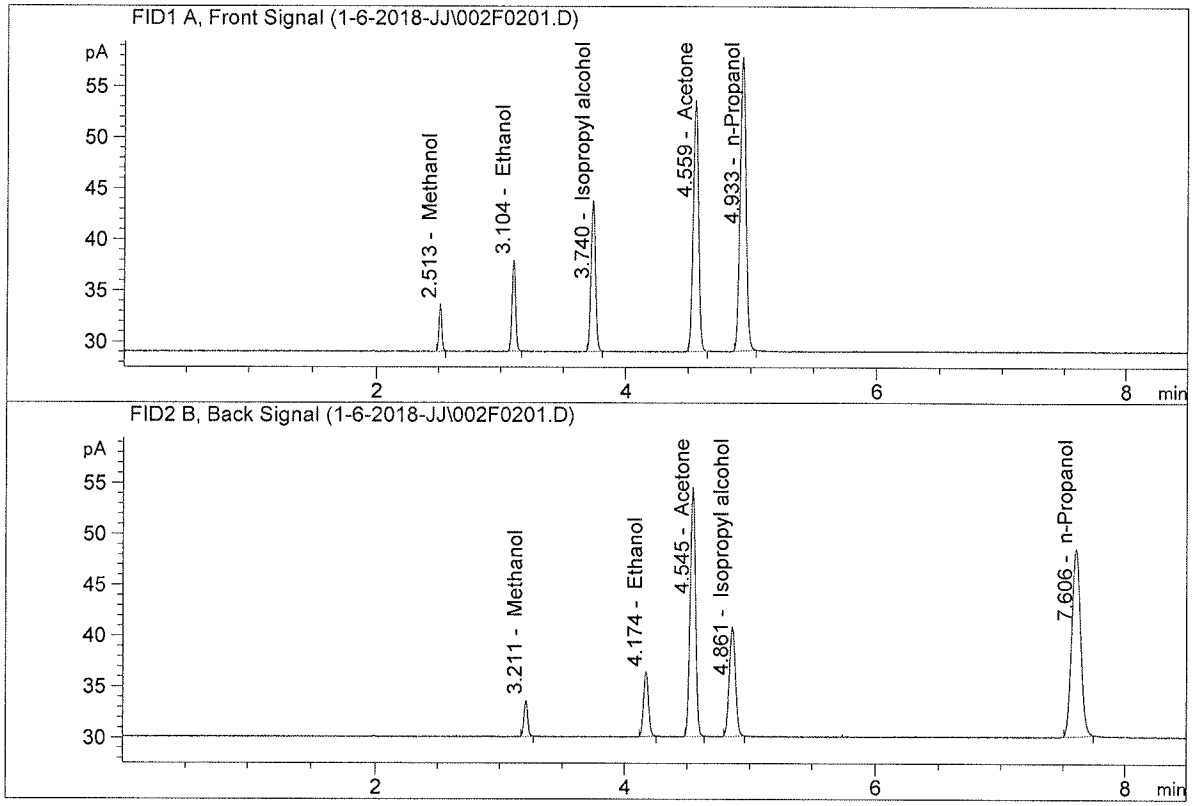
Sample Name	:	water
Laboratory	:	Coeur d' Alene
Injection Date	:	Jan 6, 2018
Method	:	ALCOHOL.M
Acq. Instrument	:	CN10742044-IT00725005



#	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

ISP Forensic Services Blood Alcohol Report

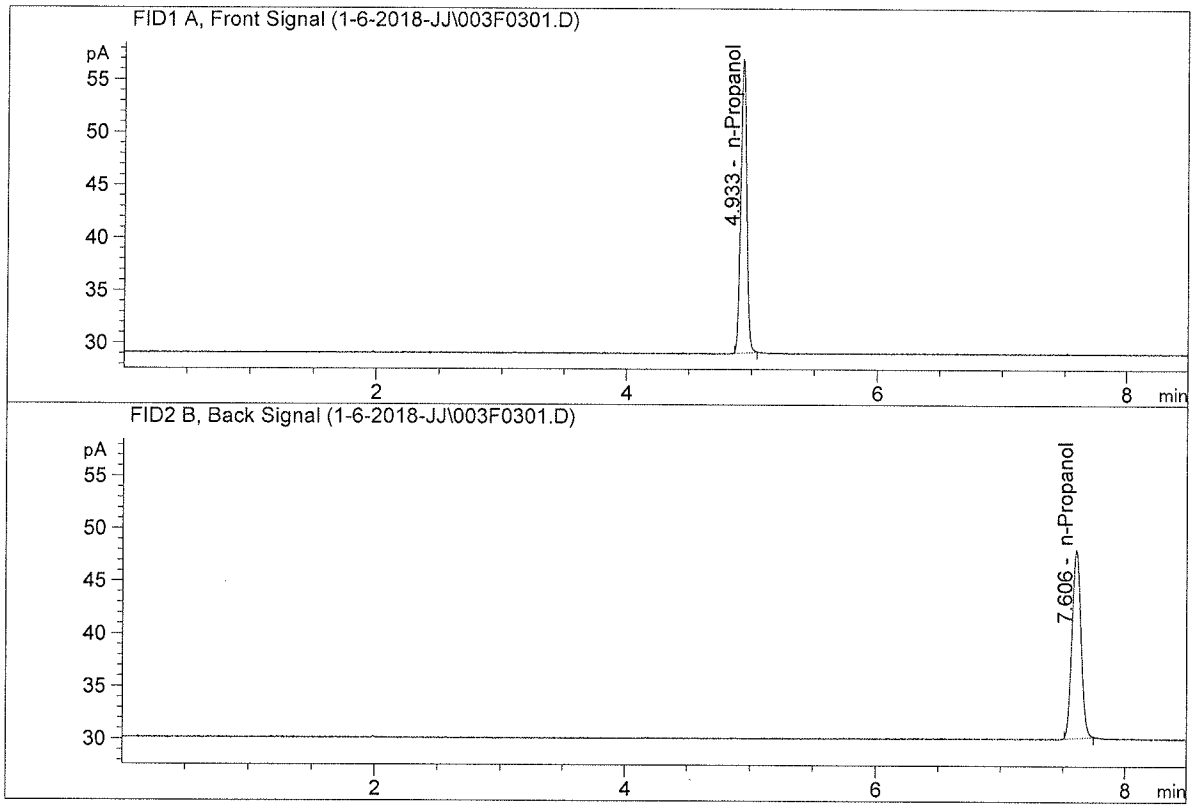
Sample Name : VOL MIX FN-06041502
Laboratory : Coeur d' Alene
Injection Date : Jan 6, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.50071	0.0976	g/100cc
2.	Ethanol	Column 2:	17.31377	0.0966	g/100cc
3.	n-Propanol	Column 1:	93.92520	1.0000	g/100cc
4.	n-Propanol	Column 2:	92.52692	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK
Laboratory : Coeur d' Alene
Injection Date : Jan 6, 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:	91.32146	1.0000	g/100cc
4.	n-Propanol	Column 2:	89.90160	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-2 **Analysis Date(s): 06 Jan 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1916	0.1909	0.0007	0.1912	0.1920	
(g/100cc)	0.1929	0.1927	0.0002	0.1928		

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
0.192	**0.182**	**0.202**	**0.010**

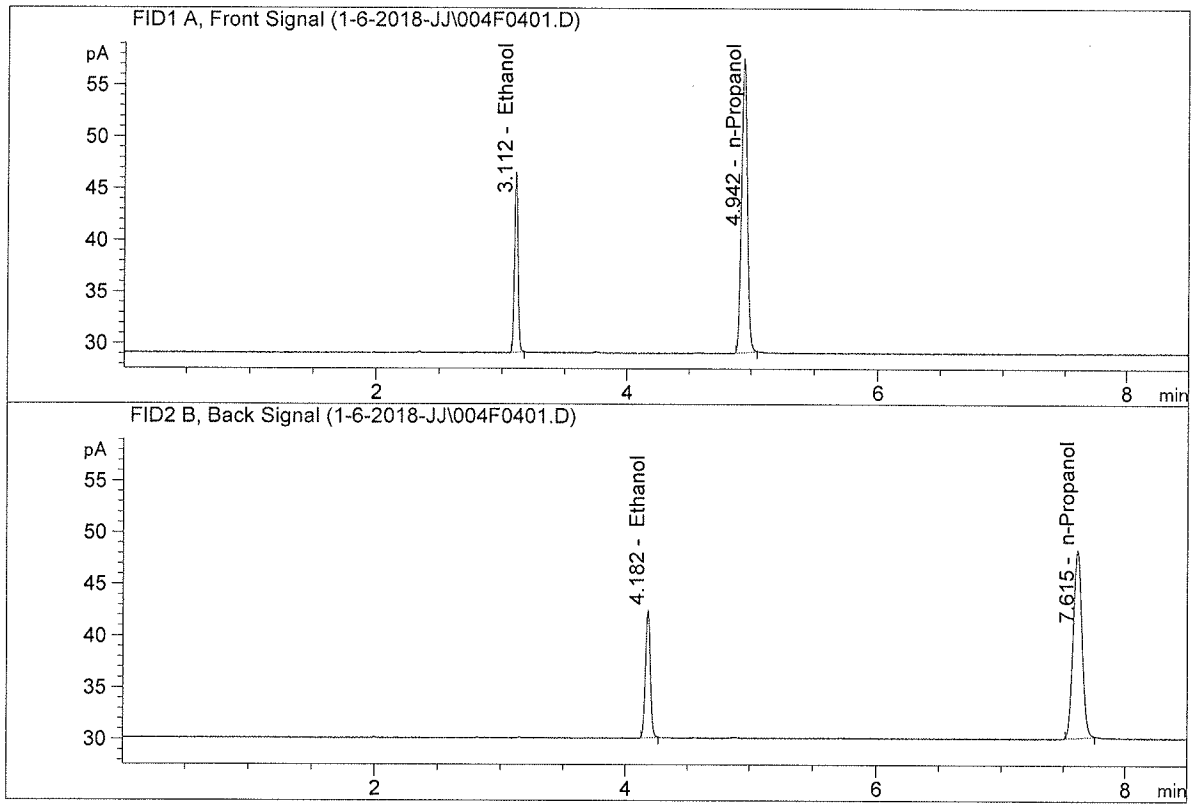
Reported Result

0.192

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

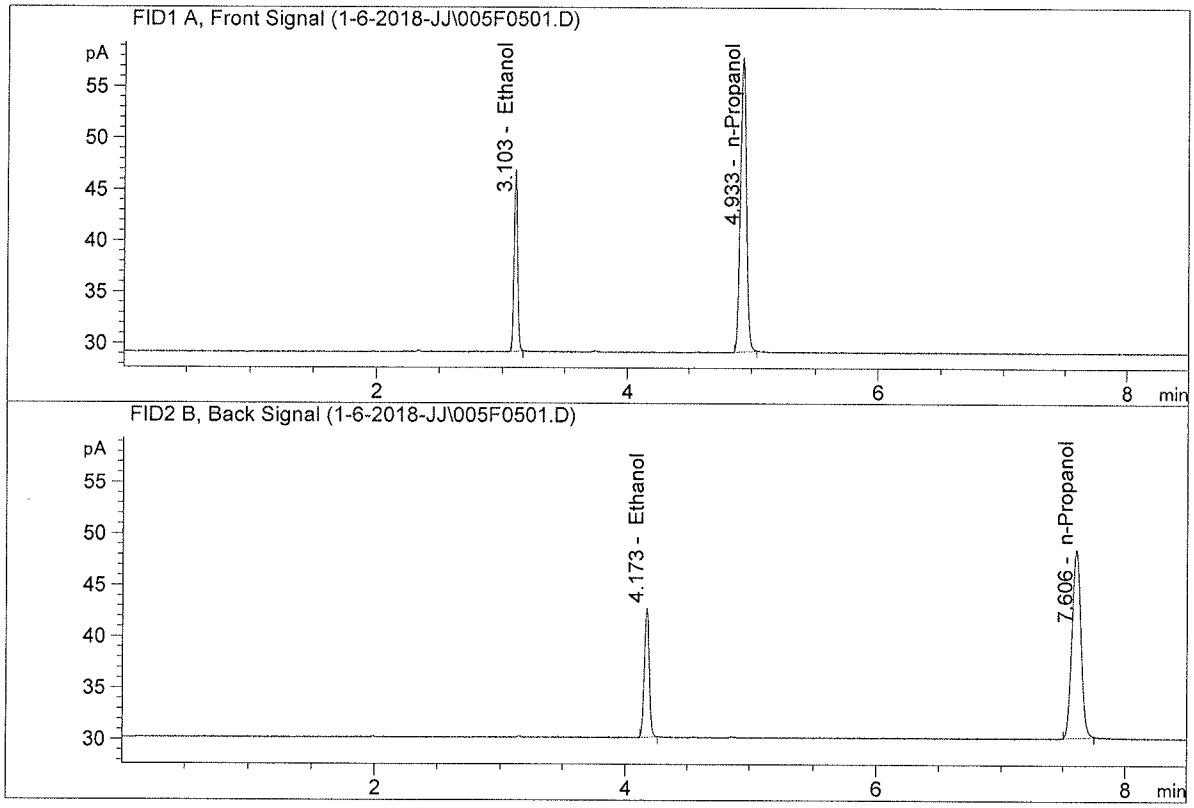
Sample Name : QC-2-A
Laboratory : Coeur d' Alene
Injection Date : Jan 6, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	34.02054	0.1916	g/100cc
2.	Ethanol	Column 2:	33.83373	0.1909	g/100cc
3.	n-Propanol	Column 1:	93.01743	1.0000	g/100cc
4.	n-Propanol	Column 2:	91.49113	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-2-B
Laboratory : Coeur d' Alene
Injection Date : Jan 6, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	34.50838	0.1929	g/100cc
2.	Ethanol	Column 2:	34.45464	0.1927	g/100cc
3.	n-Propanol	Column 1:	93.73156	1.0000	g/100cc
4.	n-Propanol	Column 2:	92.27170	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN09051304 **Analysis Date(s): 06 Jan 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0805	0.0798	0.0007	0.0801	0.0793	
(g/100cc)	0.0786	0.0784	0.0002	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
0.079	**0.075**	**0.083**	**0.004**

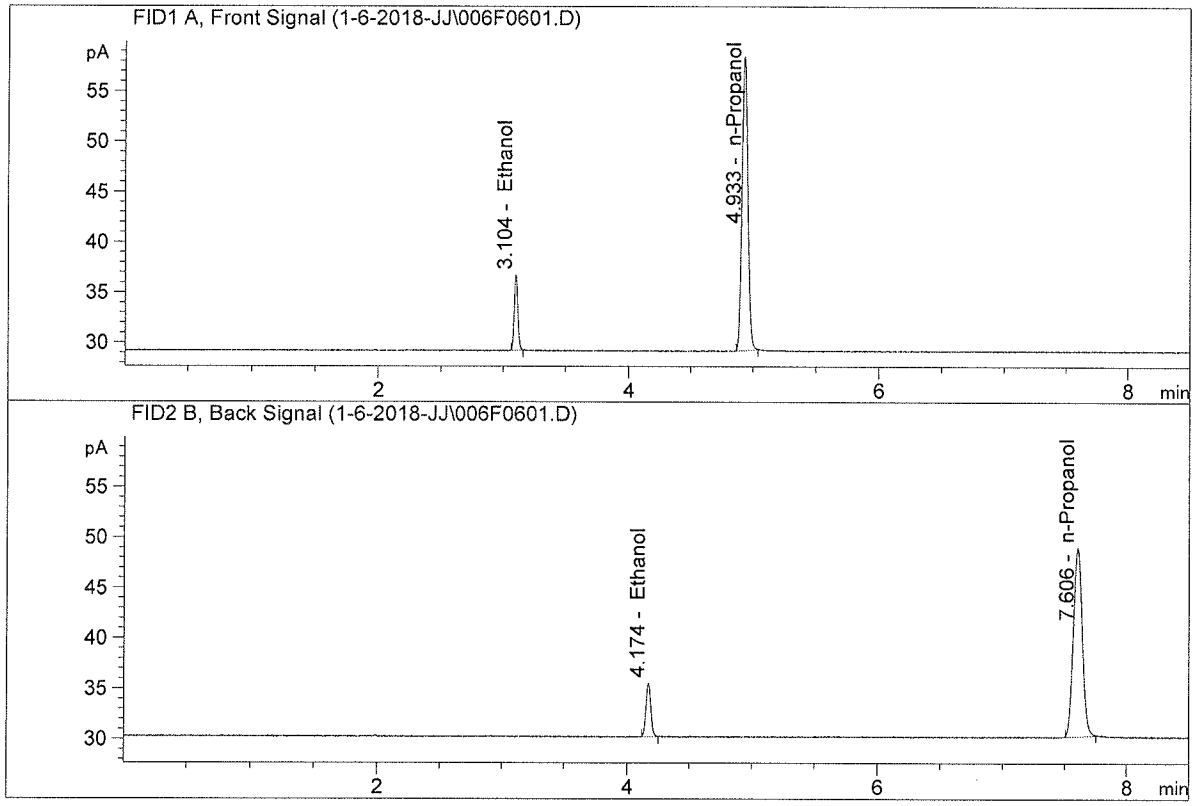
Reported Result

0.079

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

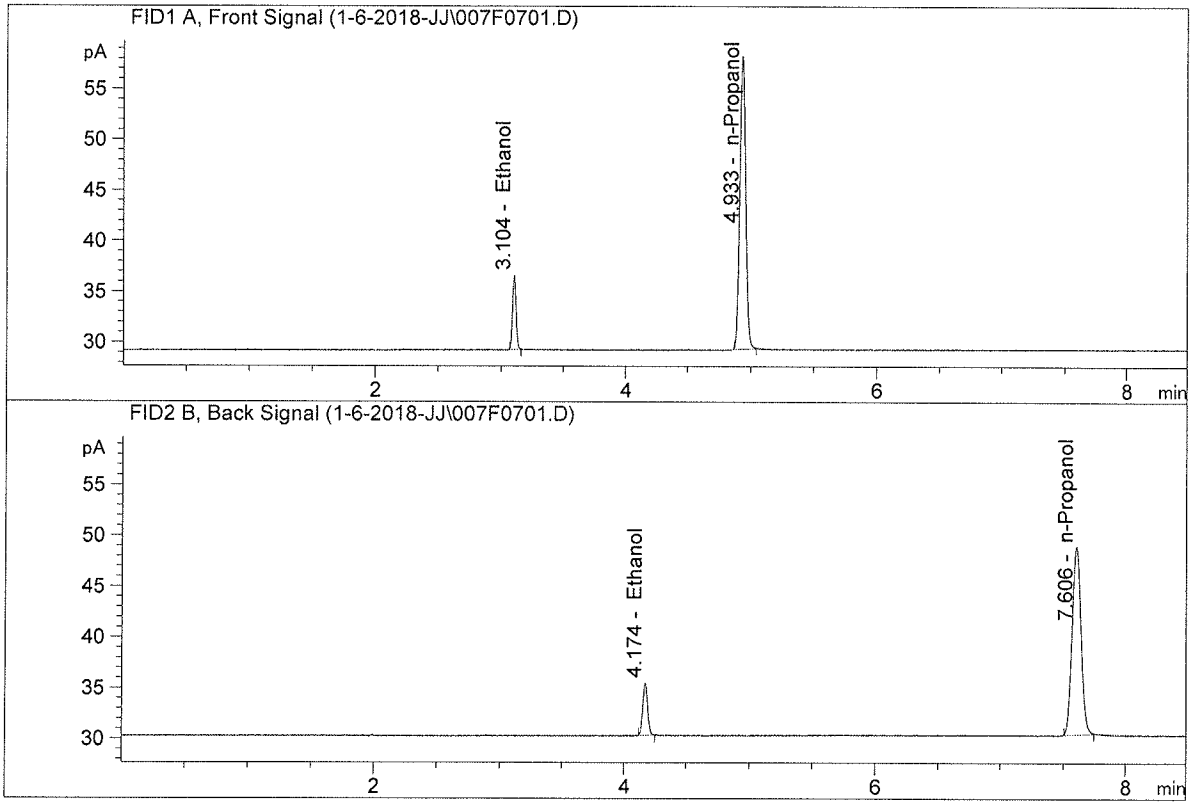
Sample Name : 0.08 FN09051304-A
Laboratory : Coeur d' Alene
Injection Date : Jan 6, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.67641	0.0805	g/100cc
2.	Ethanol	Column 2:	14.58408	0.0798	g/100cc
3.	n-Propanol	Column 1:	95.54179	1.0000	g/100cc
4.	n-Propanol	Column 2:	94.31638	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN09051304-B
Laboratory : Coeur d' Alene
Injection Date : Jan 6, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.20065	0.0786	g/100cc
2.	Ethanol	Column 2:	14.14674	0.0784	g/100cc
3.	n-Propanol	Column 1:	94.61877	1.0000	g/100cc
4.	n-Propanol	Column 2:	93.14663	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1 **Analysis Date(s): 06 Jan 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0763	0.0755	0.0008	0.0759	0.0755	
(g/100cc)	0.0753	0.0749	0.0004	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
0.075	**0.071**	**0.079**	**0.004**

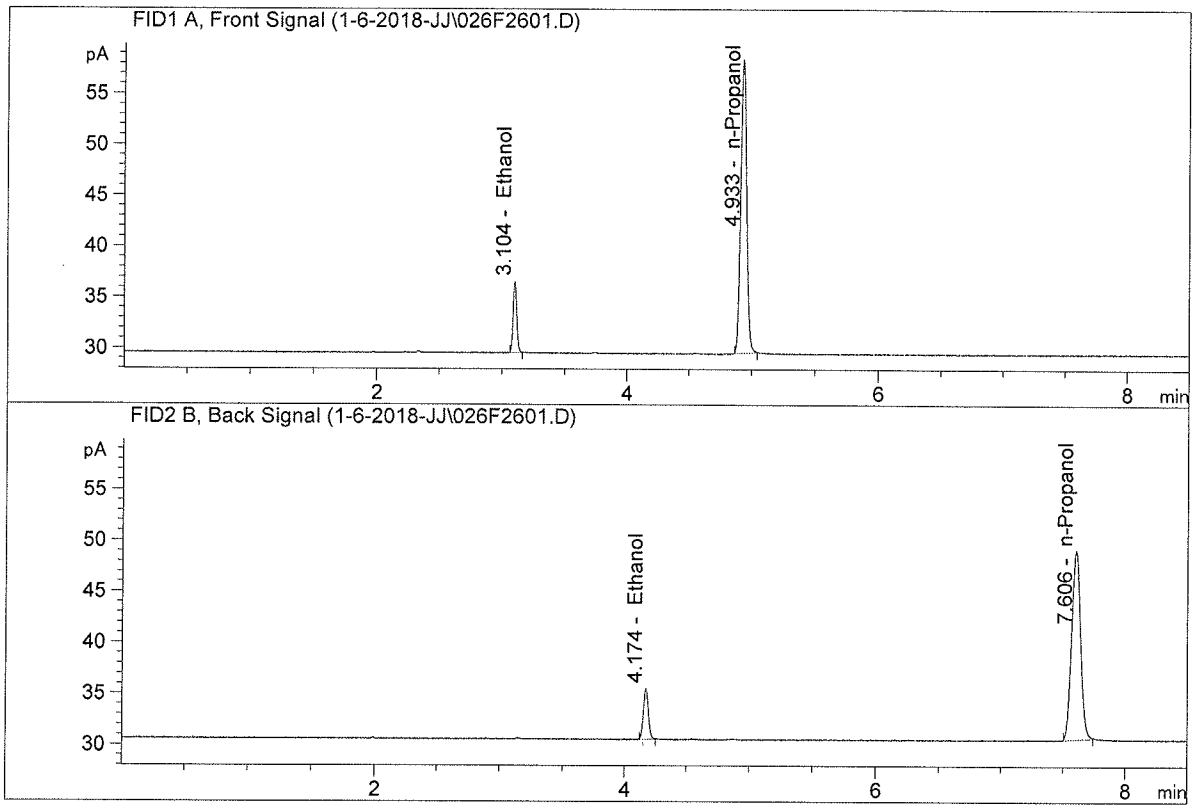
Reported Result

0.075

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

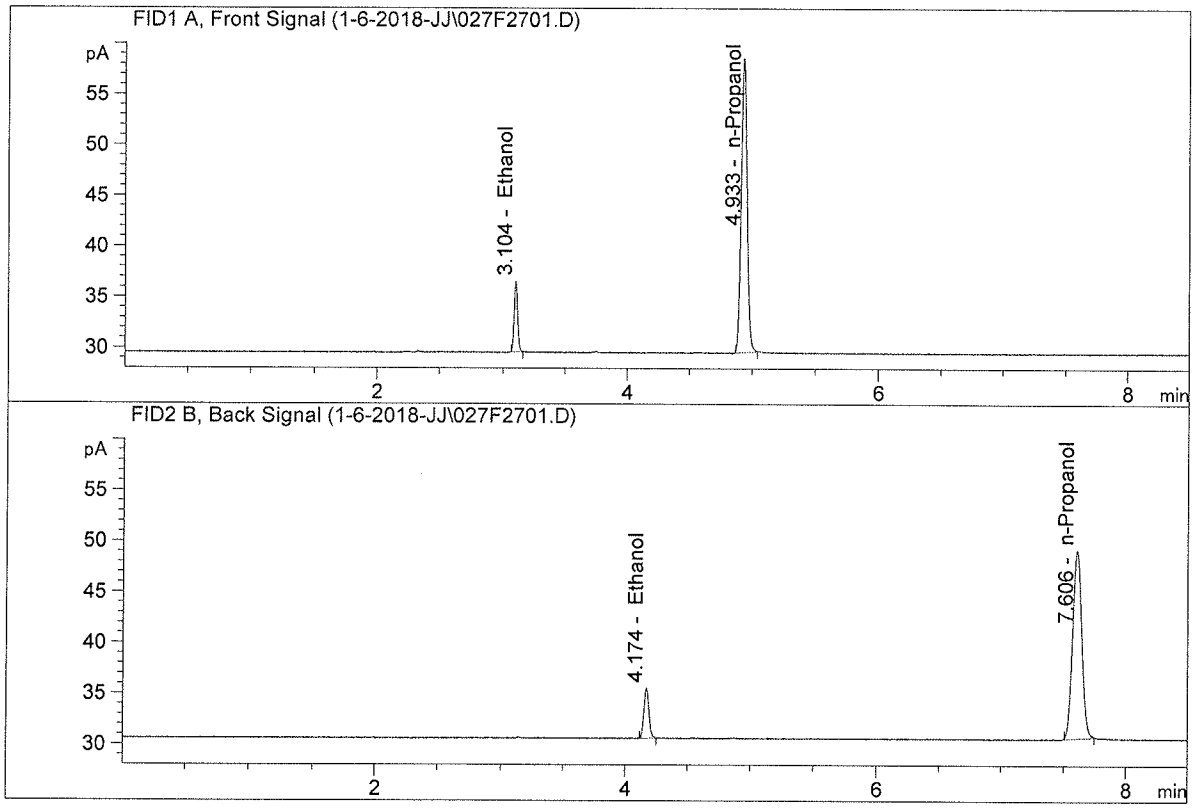
Sample Name : QC-1-A
Laboratory : Coeur d' Alene
Injection Date : Jan 6, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.75367	0.0763	g/100cc
2.	Ethanol	Column 2:	13.63280	0.0755	g/100cc
3.	n-Propanol	Column 1:	94.43233	1.0000	g/100cc
4.	n-Propanol	Column 2:	93.14254	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-B
Laboratory : Coeur d' Alene
Injection Date : Jan 6, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.65547	0.0753	g/100cc
2.	Ethanol	Column 2:	13.59202	0.0749	g/100cc
3.	n-Propanol	Column 1:	94.94091	1.0000	g/100cc
4.	n-Propanol	Column 2:	93.60445	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-2 **Analysis Date(s): 06 Jan 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1945	0.1938	0.0007	0.1941	0.1943	
(g/100cc)	0.1947	0.1942	0.0005	0.1944		

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%**

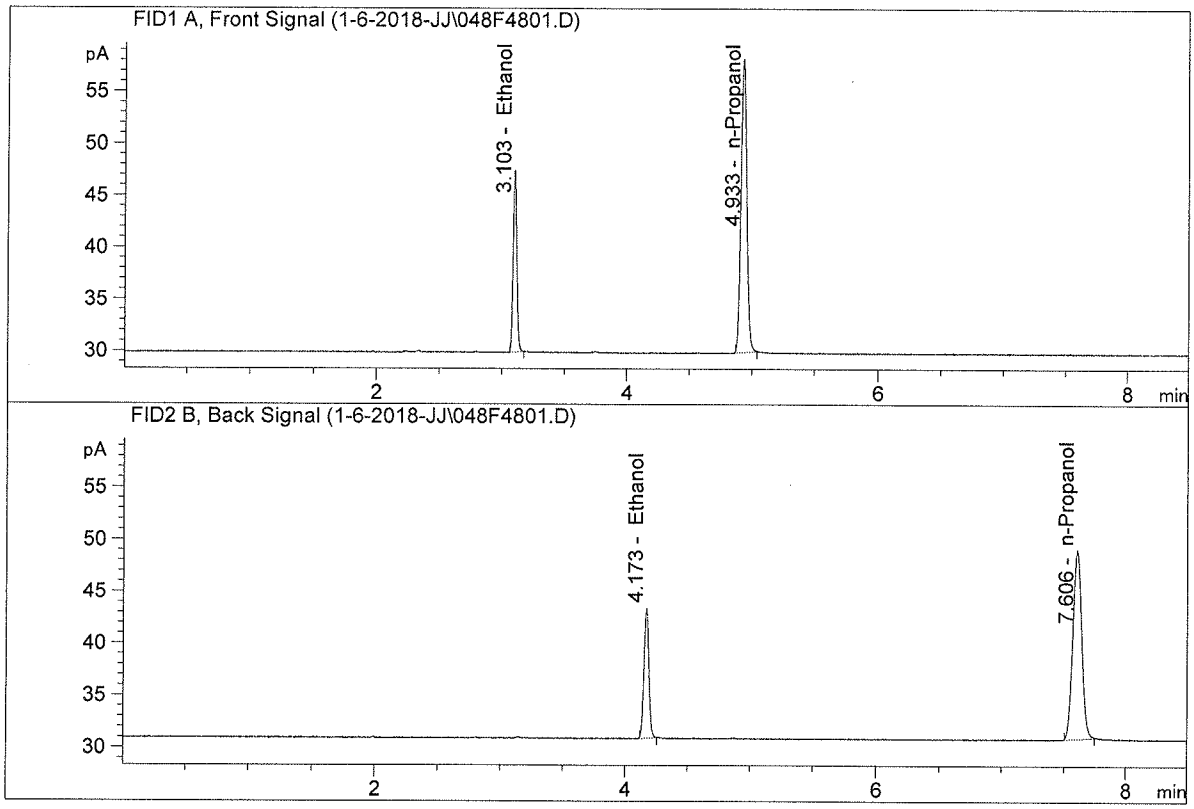
Overall Mean (g/100cc)	Low	High	5% of Mean
0.194	**0.184**	**0.204**	**0.010**

	Reported Result	
	0.194	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

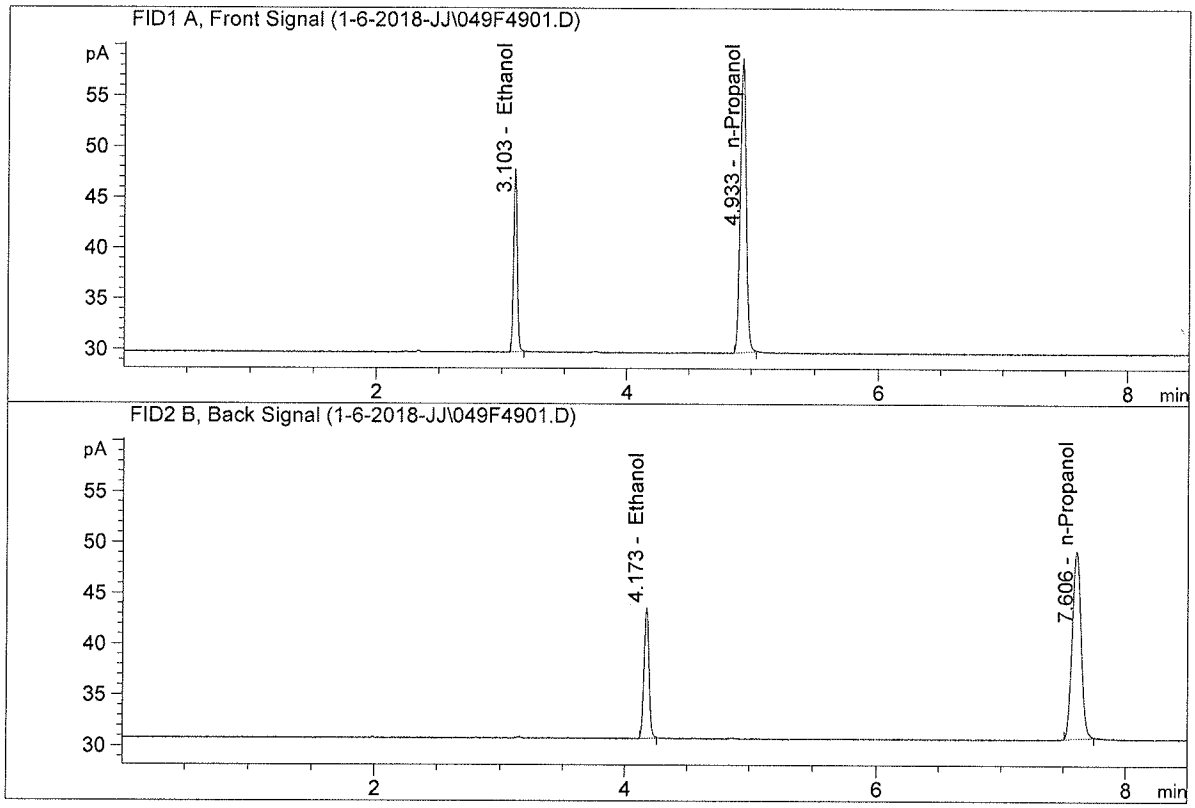
Sample Name : QC-2-A
Laboratory : Coeur d' Alene
Injection Date : Jan 6, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	34.34821	0.1945	g/100cc
2.	Ethanol	Column 2:	34.22409	0.1938	g/100cc
3.	n-Propanol	Column 1:	92.50301	1.0000	g/100cc
4.	n-Propanol	Column 2:	91.13206	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

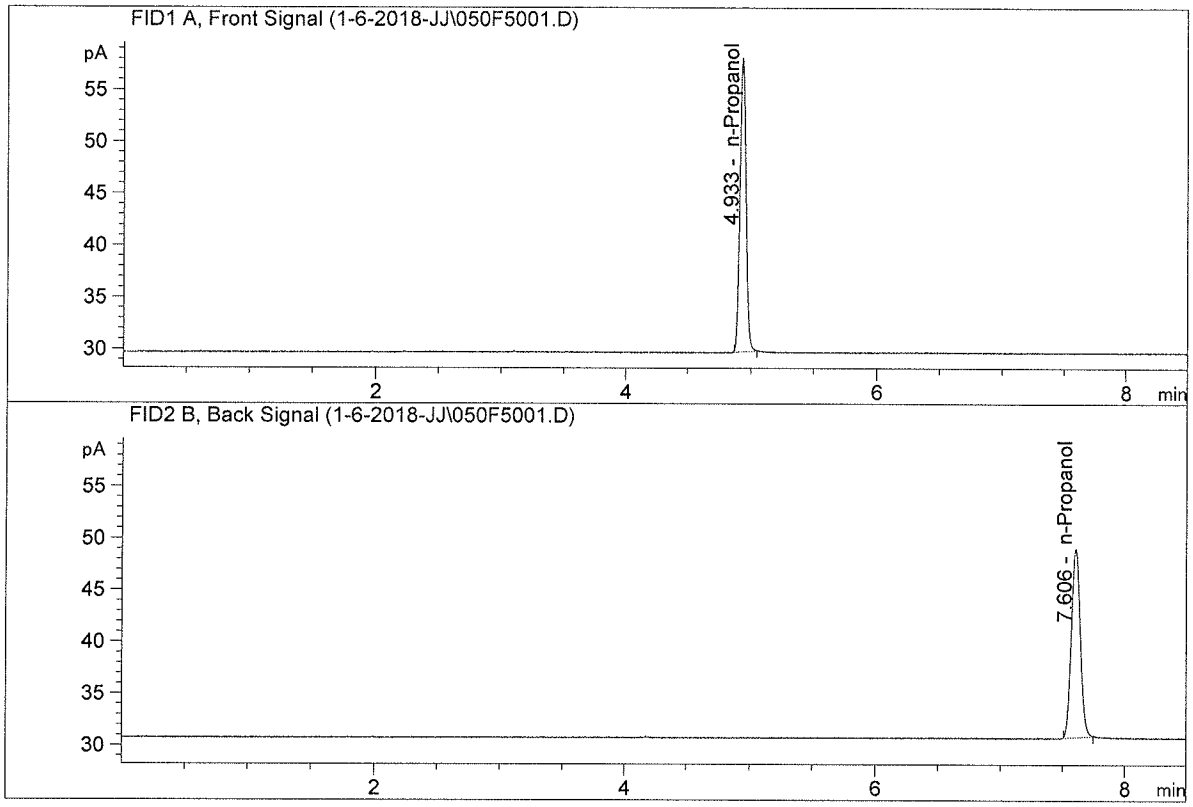
Sample Name : QC-2-B
Laboratory : Coeur d' Alene
Injection Date : Jan 6, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	35.22352	0.1947	g/100cc
2.	Ethanol	Column 2:	35.14116	0.1942	g/100cc
3.	n-Propanol	Column 1:	94.78037	1.0000	g/100cc
4.	n-Propanol	Column 2:	93.38469	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK
Laboratory : Coeur d' Alene
Injection Date : Jan 6, 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:	93.01479	1.0000	g/100cc
4.	n-Propanol	Column 2:	91.96293	1.0000	g/100cc

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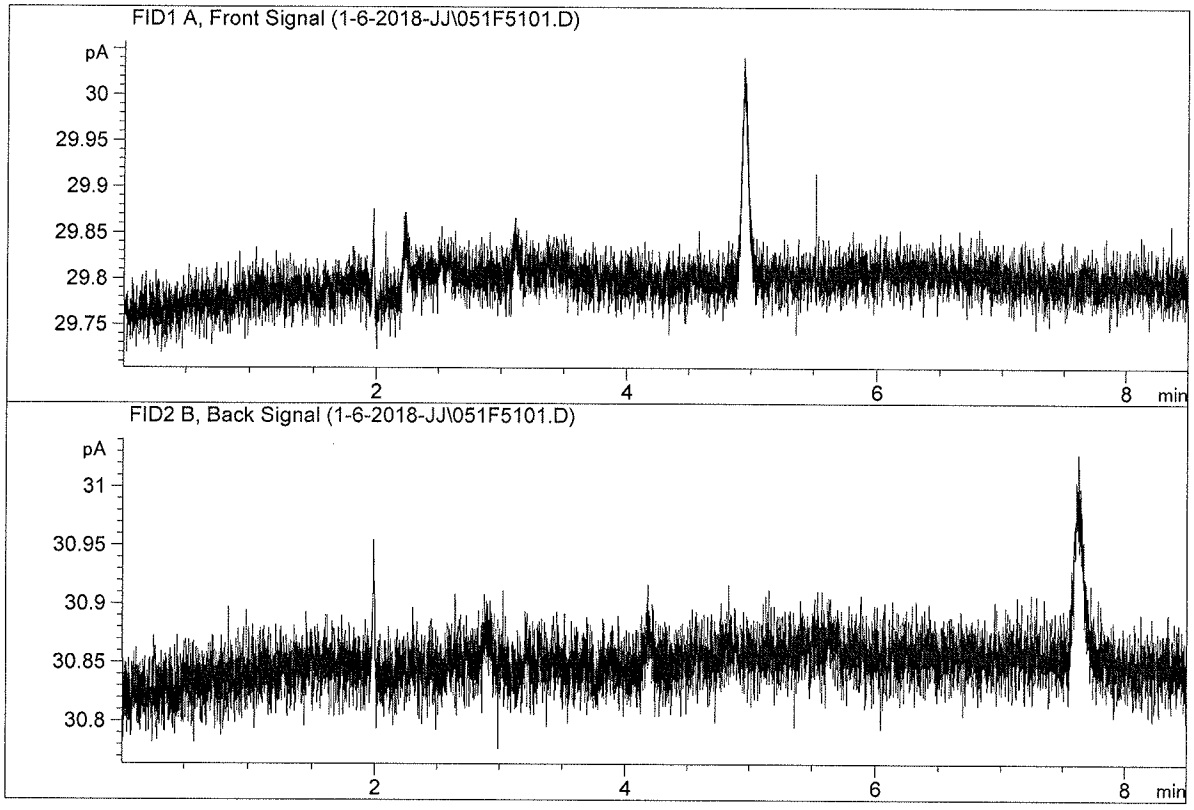
ISP Forensic Services Blood Alcohol Report

Sample Name	:	water
Laboratory	:	Coeur d' Alene
Injection Date	:	Jan 6, 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

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