Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB 503A Liquid Processor/Dilutor Serial Number: MD-96GF641

Volatiles Quality Assurance Controls **Run Date(s): 9-11-15**

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Dec-15	1211090	0.0773	0.0696-0.0850	0.0764 g/100cc
					0.0768 g/100cc
					g/100cc
Level 2	Jan-17	1212091	0.2020	0.1818-0.2222	0.2054 g/100cc
					0.2050 g/100cc
					g/100cc
Multi-Component mixture:		**Jan-16**	**Lot #**	FN012111-01	OK
Curve Fit:		**Column 1**	1.00000	**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	0.4950	0.4920	0.003	0.4935
0.080	Jan-17	FN011712-02	0.080	0.072 - 0.088			0	#DIV/0!
0.100	Mar-19	FN02021403	0.100	0.090 - 0.110	0.1003	0.0994	0.0009	0.0998
0.200	Mar-17	FN032712-01	0.200	0.180 - 0.220	0.1993	0.1985	0.0008	0.1989
0.300	Oct-18	FN09061305	0.300	0.270 - 0.330	0.2996	0.2990	0.0006	0.2993
0.400			0.400	0.360 - 0.440			0	#DIV/0!
0.500	Jan-18	FN01281301	0.500	0.450 - 0.550	0.5005	0.5014	0.0009	0.5009

Aqueous Controls					
Control level	**Expiration**	**Cerilliant Lot #**	**Target Value**	**Acceptable Range**	**Overall Results**
0.080	Jan-17	FN011712-02	0.08000	0.076 - 0.084	0.08 g/100cc

Issued: 4/22/2015

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

Volatiles QA/QC data spreadsheet Rev 5

Issuing Authority: Quality Manager

99

Calibration Table

General Calibration Setting

Calib. Data Modified : Friday, September 11, 2015 12:38:57 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

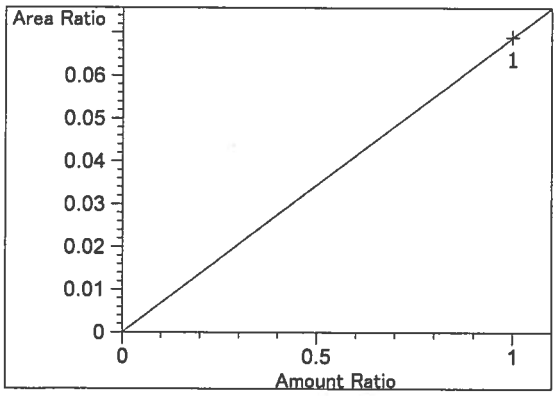
99

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
3.099	1	1	5.00000e-2	6.76920	7.38639e-3	No	No	1	Ethanol
		2	1.00000e-1	14.09929	7.09256e-3				
		3	2.00000e-1	27.60890	7.24404e-3				
		4	3.00000e-1	41.60288	7.21104e-3				
		5	5.00000e-1	67.10572	7.45093e-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
4.166	2	1	5.00000e-2	6.74271	7.41541e-3	No	No	2	Ethanol
		2	1.00000e-1	13.94471	7.17118e-3				
		3	2.00000e-1	27.38114	7.30430e-3				
		4	3.00000e-1	41.33326	7.25808e-3				
		5	5.00000e-1	66.68976	7.49740e-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
4.926	1	1	1.00000	72.77304	1.37414e-2	No	Yes	1	n-Propanol
		2	1.00000	74.76181	1.33758e-2				
		3	1.00000	73.69888	1.35687e-2				
		4	1.00000	73.86801	1.35377e-2				
		5	1.00000	71.33805	1.40178e-2				
7.594	2	1	1.00000	72.52240	1.37888e-2	No	Yes	2	n-Propanol
		2	1.00000	74.23221	1.34712e-2				
		3	1.00000	73.03072	1.36929e-2				
		4	1.00000	73.18205	1.36646e-2				
		5	1.00000	70.40836	1.42029e-2				

Peak Sum Table

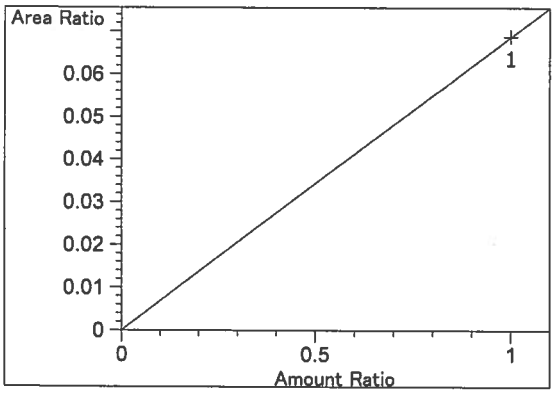
No Entries in table

Calibration Curves

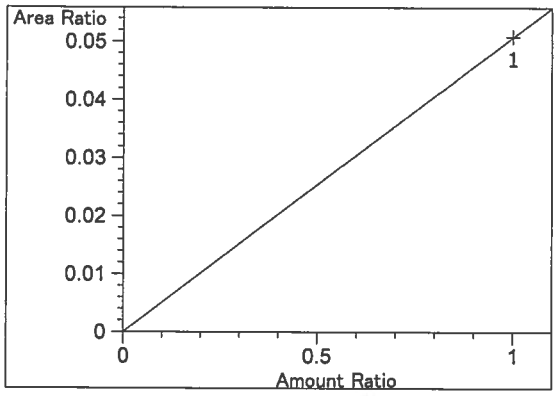


Difluoroethane at exp. RT: 2.000
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 6.89442e-2
x: Amount Ratio
y: Area Ratio

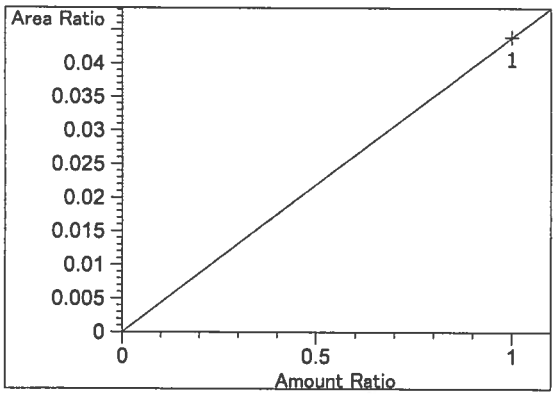
99



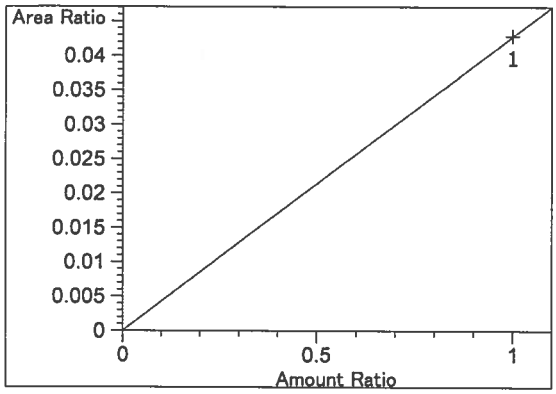
Difluoroethane at exp. RT: 2.000
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 6.87068e-2
x: Amount Ratio
y: Area Ratio



Methanol at exp. RT: 2.494
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 5.07976e-2
x: Amount Ratio
y: Area Ratio

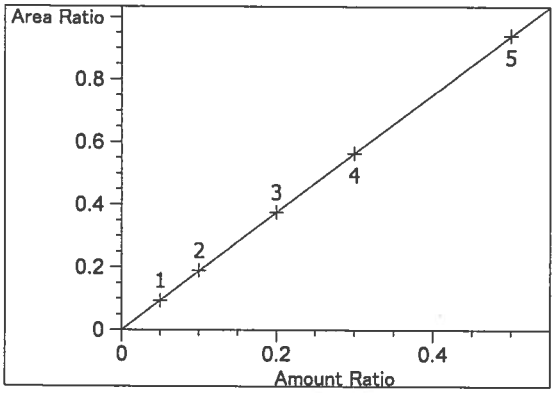


Acetaldehyde at exp. RT: 2.772
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 4.38776e-2
x: Amount Ratio
y: Area Ratio

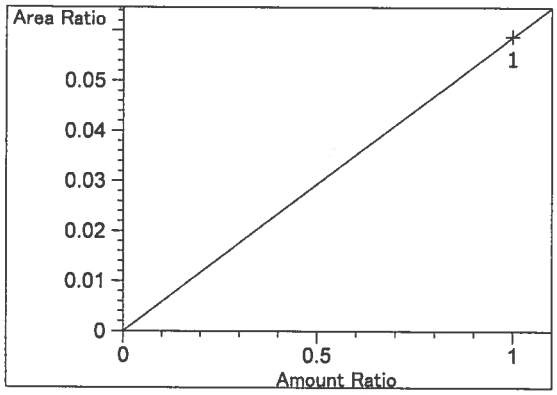


Acetaldehyde at exp. RT: 2.797
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 4.28247e-2
x: Amount Ratio
y: Area Ratio

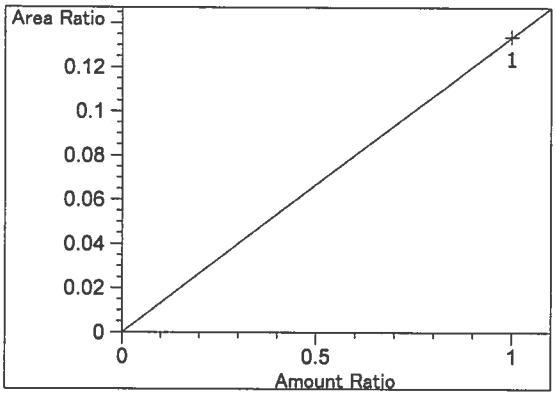
99



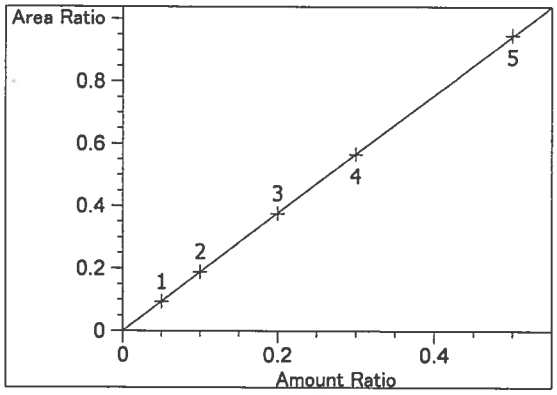
Ethanol at exp. RT: 3.099
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00103
Formula: y = mx
m: 1.87957
x: Amount Ratio
y: Area Ratio



Methanol at exp. RT: 3.211
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 5.87491e-2
x: Amount Ratio
y: Area Ratio

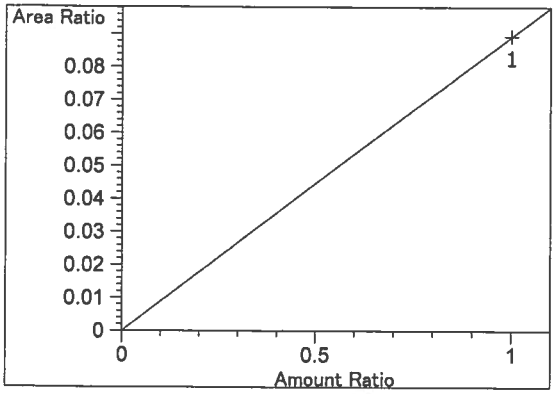


Isopropyl alcohol at exp. RT: 3.715
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.33711e-1
x: Amount Ratio
y: Area Ratio

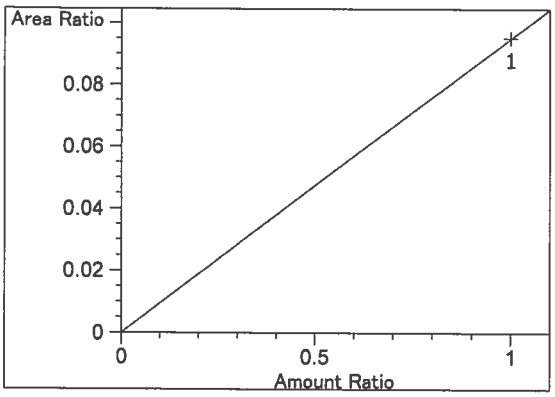


Ethanol at exp. RT: 4.166
FID2 B, Back Signal
Correlation: 0.99999
Residual Std. Dev.: 0.00236
Formula: y = mx
m: 1.88905
x: Amount Ratio
y: Area Ratio

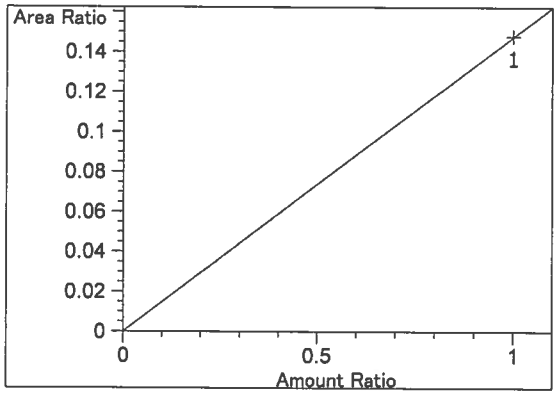
99



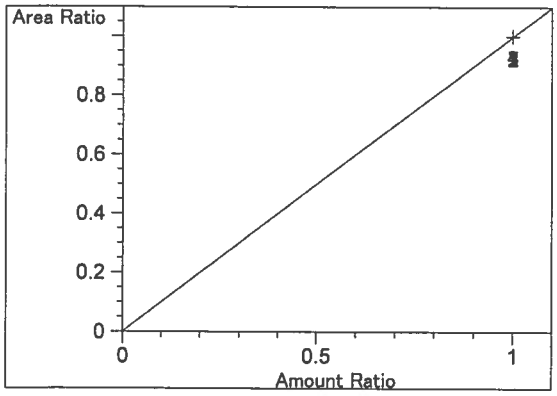
Acetone at exp. RT: 4.530
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 8.93106e-2
x: Amount Ratio
y: Area Ratio



Acetone at exp. RT: 4.549
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 9.50466e-2
x: Amount Ratio
y: Area Ratio

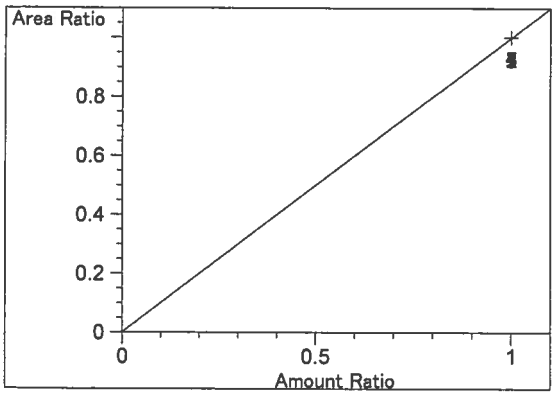


Isopropyl alcohol at exp. RT: 4.870
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.47629e-1
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 4.926
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.00000
x: Amount Ratio
y: Area Ratio

99



n-Propanol at exp. RT: 7.594
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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99

Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_11.09.2015_10.57.38\9-11-2015cal.S
Data directory path: C:\Chem32\1\Data\9-11-15caljj
Logbook: C:\Chem32\1\Data\9-11-15caljj\9-11-2015cal.LOG
Sequence start: 9/11/2015 11:11:21 AM
Sequence Operator: SYSTEM
Operator: SYSTEM

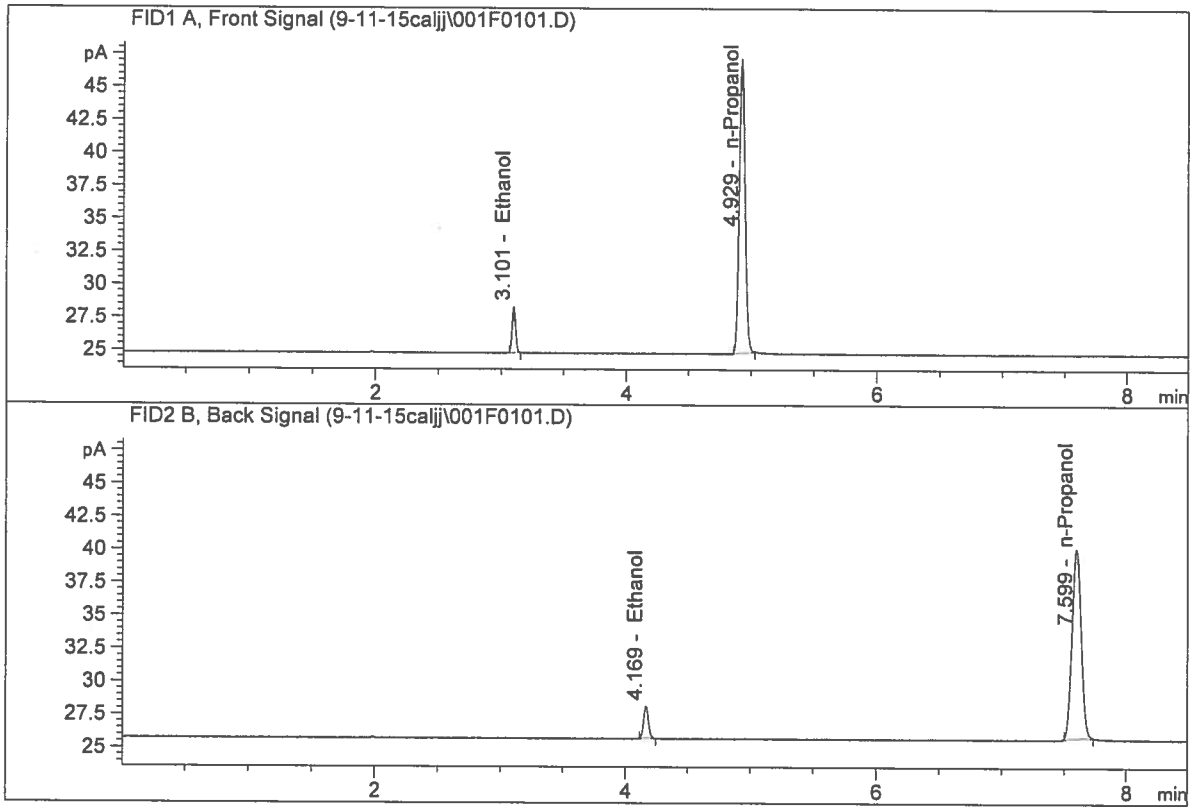
Method file name: C:\CHEM32\1\METHODS\ALCOHOL.M

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

99

ISP Forensic Services Blood Alcohol Report

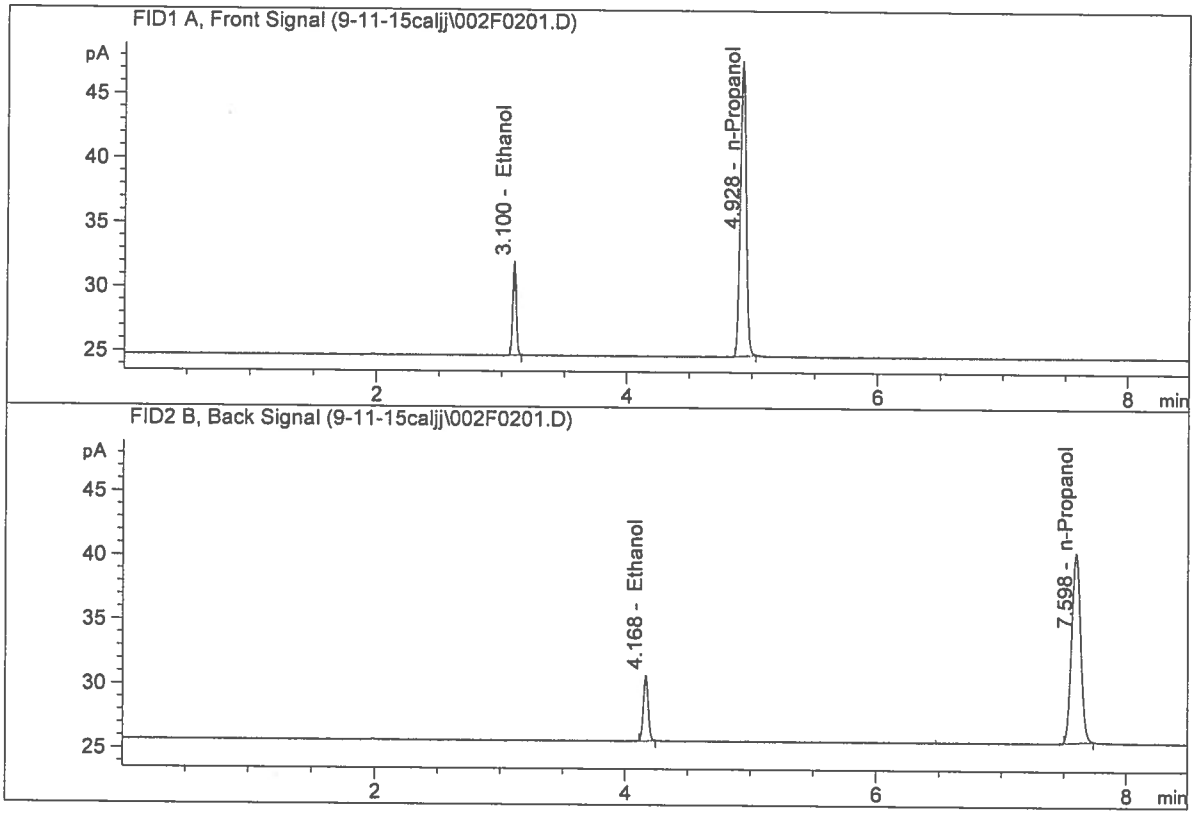
Sample Name : 0.05
Laboratory : Coeur d' Alene
Injection Date : Sep 11, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.76920	0.0495	g/100cc
2.	Ethanol	Column 2:	6.74271	0.0492	g/100cc
3.	n-Propanol	Column 1:	72.77304	1.0000	g/100cc
4.	n-Propanol	Column 2:	72.52240	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

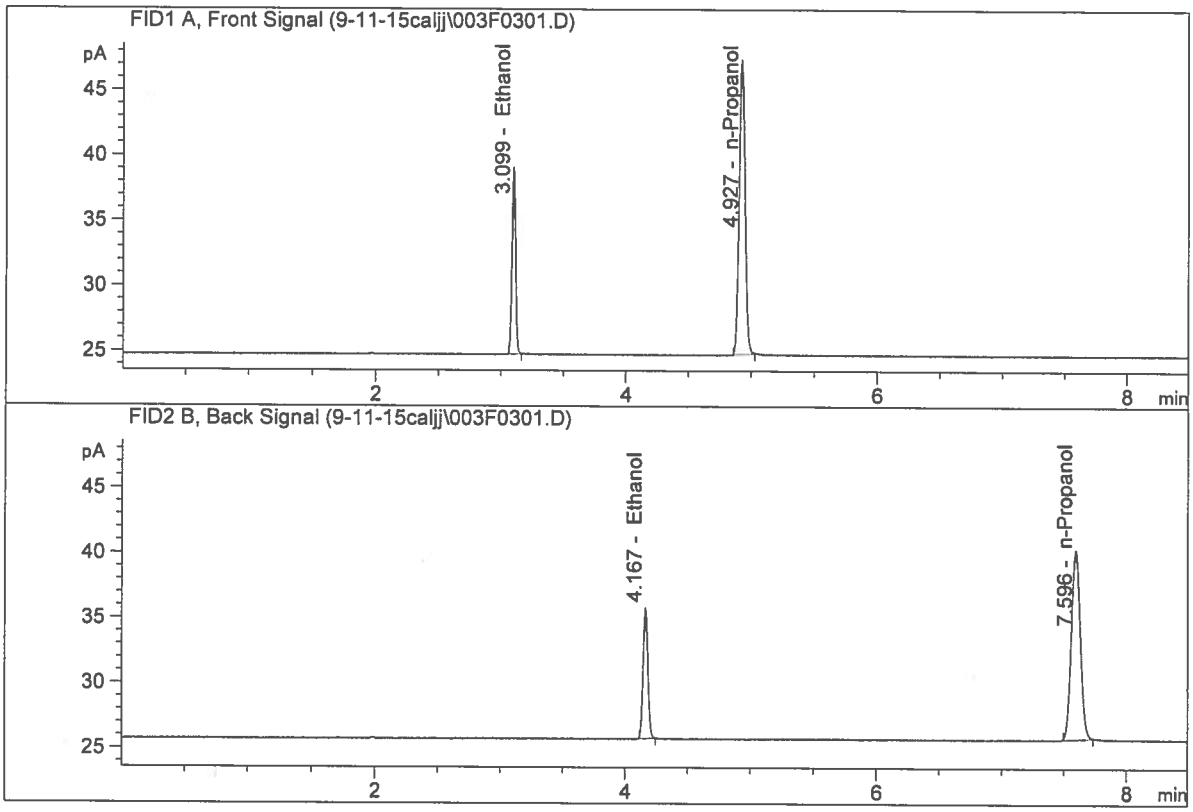
Sample Name : 0.100
Laboratory : Coeur d' Alene
Injection Date : Sep 11, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.09929	0.1003	g/100cc
2.	Ethanol	Column 2:	13.94471	0.0994	g/100cc
3.	n-Propanol	Column 1:	74.76181	1.0000	g/100cc
4.	n-Propanol	Column 2:	74.23221	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.200
Laboratory : Coeur d' Alene
Injection Date : Sep 11, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

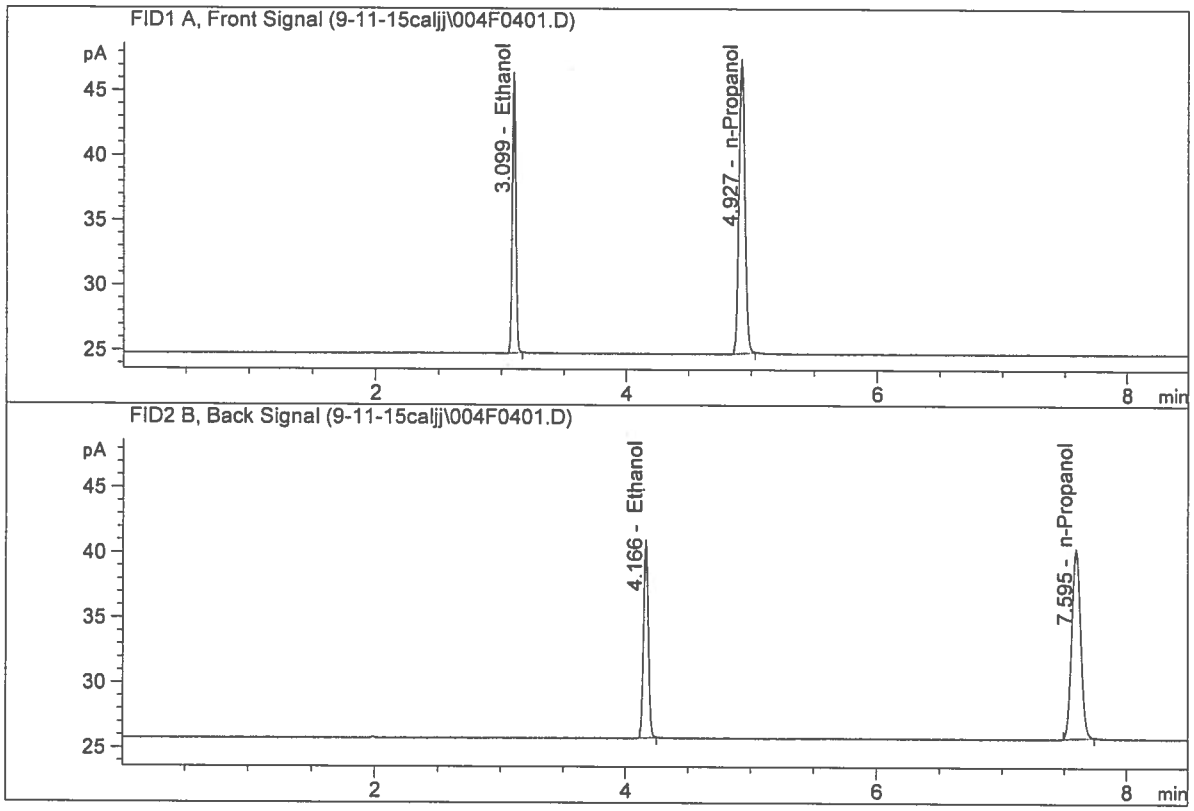


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	27.60890	0.1993	g/100cc
2.	Ethanol	Column 2:	27.38114	0.1985	g/100cc
3.	n-Propanol	Column 1:	73.69888	1.0000	g/100cc
4.	n-Propanol	Column 2:	73.03072	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.300
Laboratory : Coeur d' Alene
Injection Date : Sep 11, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

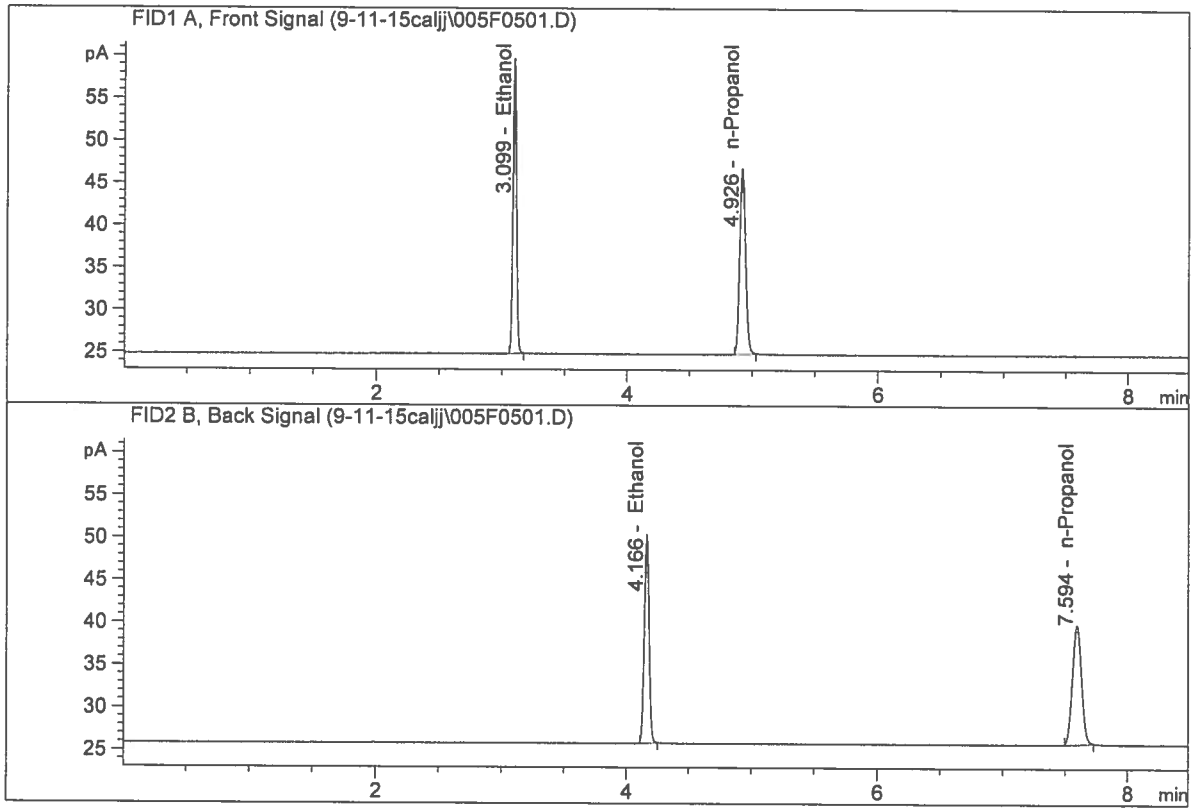


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	41.60288	0.2996	g/100cc
2.	Ethanol	Column 2:	41.33326	0.2990	g/100cc
3.	n-Propanol	Column 1:	73.86801	1.0000	g/100cc
4.	n-Propanol	Column 2:	73.18205	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.500
Laboratory : Coeur d' Alene
Injection Date : Sep 11, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

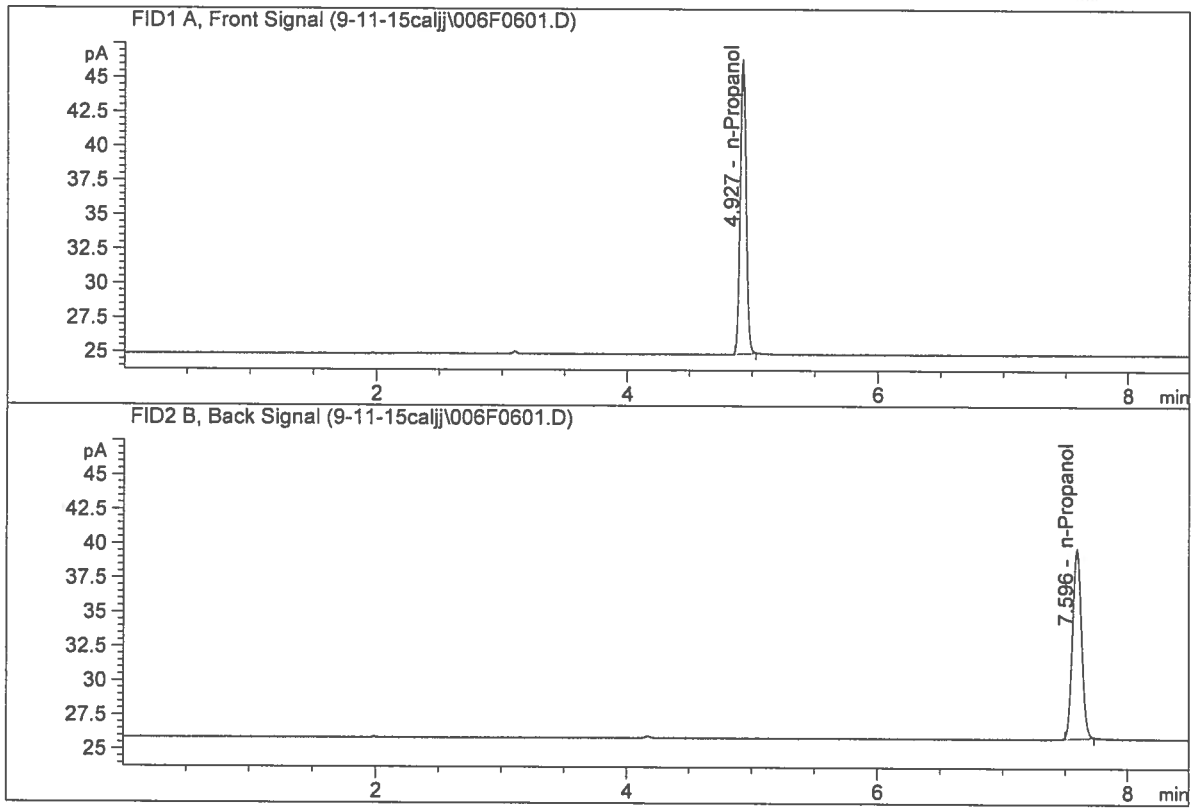


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	67.10572	0.5005	g/100cc
2.	Ethanol	Column 2:	66.68976	0.5014	g/100cc
3.	n-Propanol	Column 1:	71.33805	1.0000	g/100cc
4.	n-Propanol	Column 2:	70.40836	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : blank
Laboratory : Coeur d' Alene
Injection Date : Sep 11, 2015
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:	70.04409	1.0000	g/100cc
4.	n-Propanol	Column 2:	69.48819	1.0000	g/100cc

99

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

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_11.09.2015_12.54.21\9-11-2015.S
Data directory path: C:\Chem32\1\Data\9-11-15JJ
Logbook: C:\Chem32\1\Data\9-11-15JJ\9-11-2015.LOG
Sequence start: 9/11/2015 1:08:08 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	VOL MIX FN-01211	-	1.0000	001F0101.D		10
2	2	1	ISTD BLANK	-	1.0000	002F0201.D		2
3	3	1	QC-1-A	-	1.0000	003F0301.D		4
4	4	1	QC-1-B	-	1.0000	004F0401.D		4
5	5	1	0.08 FN011712-02	-	1.0000	005F0501.D		4
6	6	1	0.08 FN011712-02	-	1.0000	006F0601.D		4
7	7	1	C2015-1493-1-A	-	1.0000	007F0701.D		4
8	8	1	C2015-1493-1-B	-	1.0000	008F0801.D		4
9	9	1	C2015-1516-1-A	-	1.0000	009F0901.D		4
10	10	1	C2015-1516-1-B	-	1.0000	010F1001.D		4
11	11	1	C2015-1517-1-A	-	1.0000	011F1101.D		4
12	12	1	C2015-1517-1-B	-	1.0000	012F1201.D		4
13	13	1	C2015-1523-1-A	-	1.0000	013F1301.D		2
14	14	1	C2015-1523-1-B	-	1.0000	014F1401.D		2
15	15	1	C2015-1540-1-A	-	1.0000	015F1501.D		4
16	16	1	C2015-1540-1-B	-	1.0000	016F1601.D		4
17	17	1	C2015-1541-1-A	-	1.0000	017F1701.D		4
18	18	1	C2015-1541-1-B	-	1.0000	018F1801.D		4
19	19	1	C2015-1542-1-A	-	1.0000	019F1901.D		4
20	20	1	C2015-1542-1-B	-	1.0000	020F2001.D		4
21	21	1	C2015-1543-1-A	-	1.0000	021F2101.D		4
22	22	1	C2015-1543-1-B	-	1.0000	022F2201.D		4
23	23	1	C2015-1552-1-A	-	1.0000	023F2301.D		2
24	24	1	C2015-1552-1-B	-	1.0000	024F2401.D		2
25	25	1	QC-2-A	-	1.0000	025F2501.D		4
26	26	1	QC-2-B	-	1.0000	026F2601.D		4
27	27	1	C2015-1565-1-A	-	1.0000	027F2701.D		4
28	28	1	C2015-1565-1-B	-	1.0000	028F2801.D		4
29	29	1	C2015-1566-1-A	-	1.0000	029F2901.D		4
30	30	1	C2015-1566-1-B	-	1.0000	030F3001.D		4
31	31	1	C2015-1567-1-A	-	1.0000	031F3101.D		4
32	32	1	C2015-1567-1-B	-	1.0000	032F3201.D		4
33	33	1	C2015-1573-1-A	-	1.0000	033F3301.D		4
34	34	1	C2015-1573-1-B	-	1.0000	034F3401.D		4
35	35	1	C2015-1589-1-A	-	1.0000	035F3501.D		4
36	36	1	C2015-1589-1-B	-	1.0000	036F3601.D		4
37	37	1	C2015-1599-1-A	-	1.0000	037F3701.D		4
38	38	1	C2015-1599-1-B	-	1.0000	038F3801.D		4
39	39	1	C2015-1606-1-A	-	1.0000	039F3901.D		4
40	40	1	C2015-1606-1-B	-	1.0000	040F4001.D		4
41	41	1	C2015-1607-1-A	-	1.0000	041F4101.D		2
42	42	1	C2015-1607-1-B	-	1.0000	042F4201.D		2
43	43	1	C2015-1614-1-A	-	1.0000	043F4301.D		2
44	44	1	C2015-1614-1-B	-	1.0000	044F4401.D		2
45	45	1	C2015-1614-2-A	-	1.0000	045F4501.D		4
46	46	1	C2015-1614-2-B	-	1.0000	046F4601.D		4

99

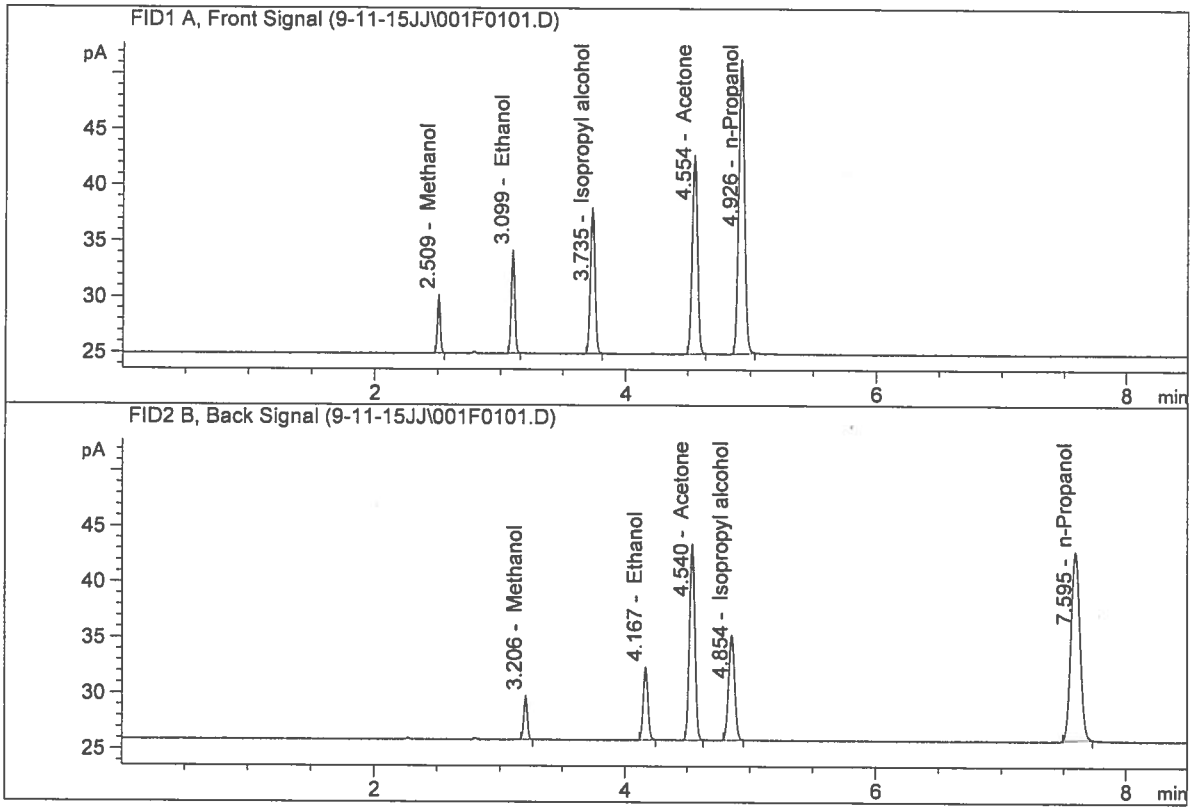
Sequence File C:\Chem32\1\TEMP\AESEQ\QS_11.09.2015_12.54.21\9-11-2015.S

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
47	47	1	QC-1-A	-	1.0000	047F4701.D		4
48	48	1	QC-1-B	-	1.0000	048F4801.D		4
49	49	1	C2015-1614-3-A	-	1.0000	049F4901.D		4
50	50	1	C2015-1614-3-B	-	1.0000	050F5001.D		4
51	51	1	C2015-1614-4-A	-	1.0000	051F5101.D		4
52	52	1	C2015-1614-4-B	-	1.0000	052F5201.D		4
53	53	1	C2015-1654-2-A	-	1.0000	053F5301.D		4
54	54	1	C2015-1654-2-B	-	1.0000	054F5401.D		4
55	55	1	C2015-1608-1-A	-	1.0000	055F5501.D		4
56	56	1	C2015-1608-1-B	-	1.0000	056F5601.D		4
57	57	1	QC-2-A	-	1.0000	057F5701.D		4
58	58	1	QC-2-B	-	1.0000	058F5801.D		4
59	59	1	ISTD BLANK	-	1.0000	059F5901.D		2
60	60	1	ISTD BLANK	-	1.0000	060F6001.D		2

99

ISP Forensic Services Blood Alcohol Report

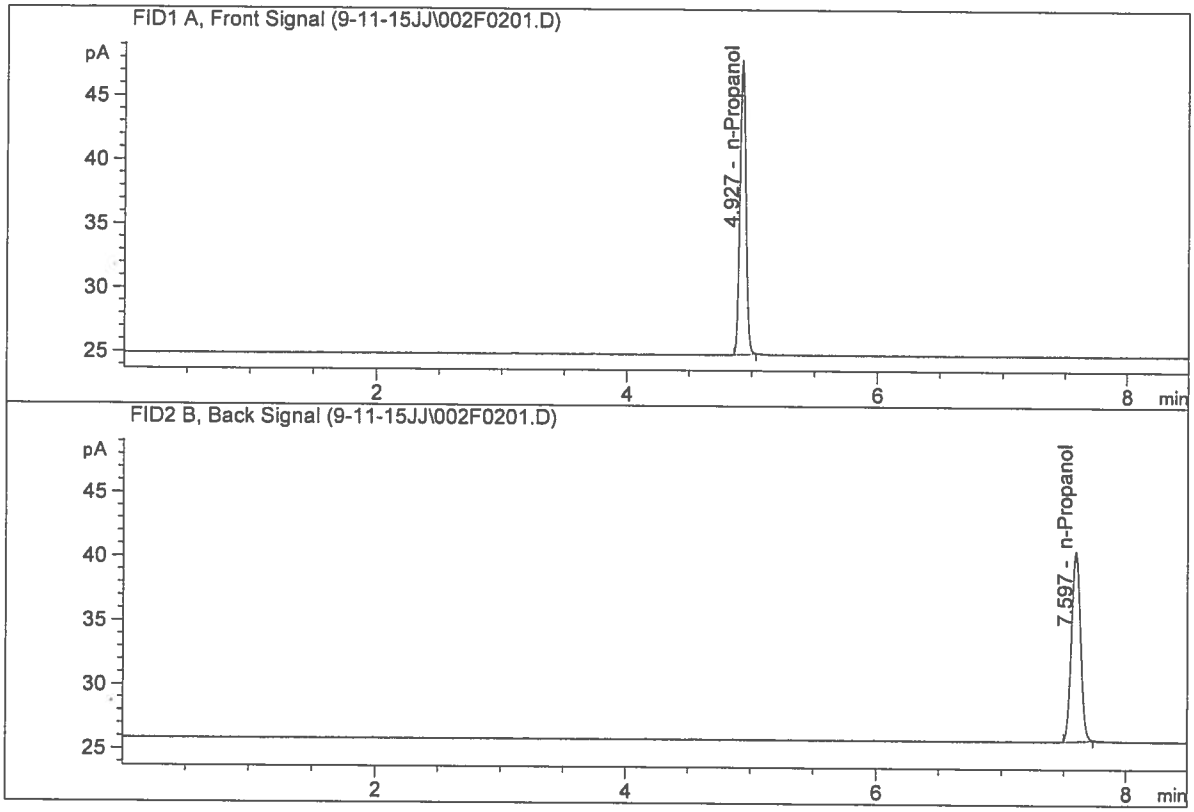
Sample Name : VOL MIX FN-012111-01
Laboratory : Coeur d' Alene
Injection Date : Sep 11, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.84852	0.1103	g/100cc
2.	Ethanol	Column 2:	17.83274	0.1106	g/100cc
3.	n-Propanol	Column 1:	86.12991	1.0000	g/100cc
4.	n-Propanol	Column 2:	85.32255	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK
Laboratory : Coeur d' Alene
Injection Date : Sep 11, 2015
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:	74.98104	1.0000	g/100cc
4.	n-Propanol	Column 2:	74.43933	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1 **Analysis Date(s): 11 Sep 2015**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0765	0.0765	0.0000	0.0765	0.0764	
(g/100cc)	0.0765	0.0763	0.0002	0.0764		

Analysis Method

Refer to Volatiles Analytical Method 1.0

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: MD-96GF641

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

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

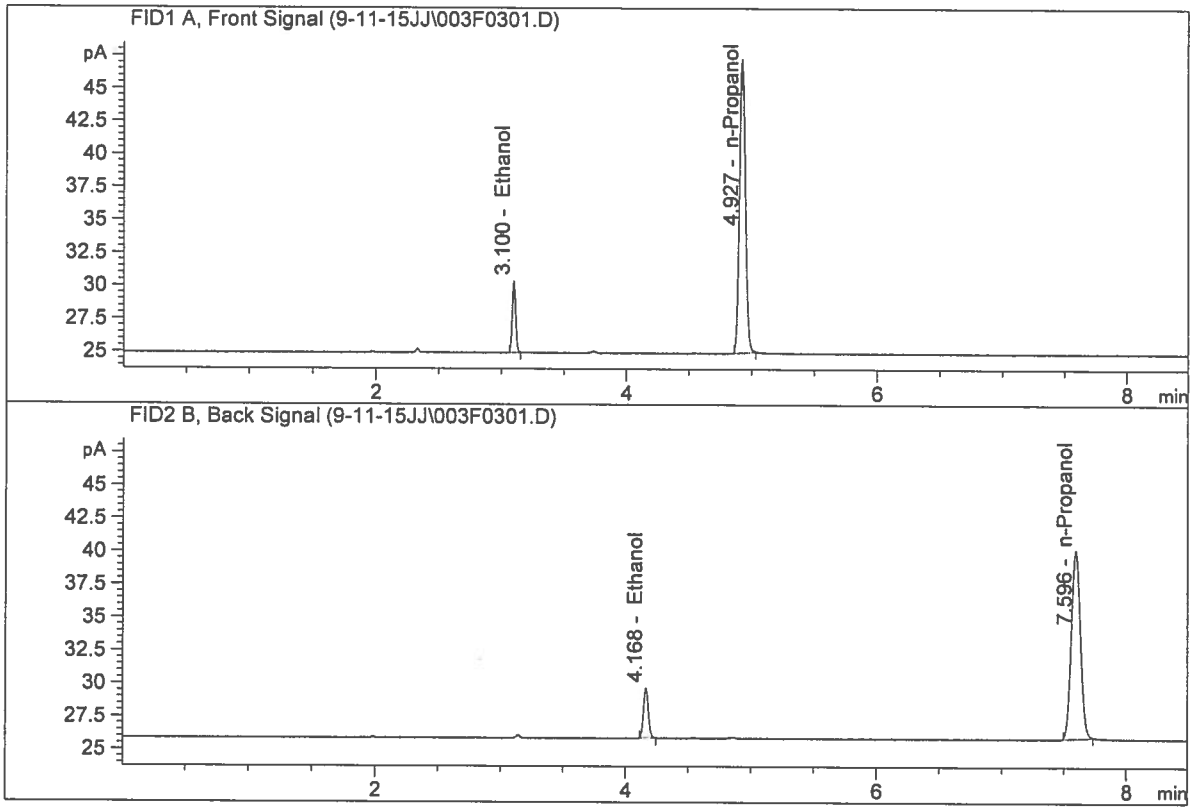
Reported Result
0.076

Calibration and control data are stored centrally.

Issued: 01/16/2014
Volatiles BAC Calculation Spreadsheet Rev 3
Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-A
Laboratory : Coeur d' Alene
Injection Date : Sep 11, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

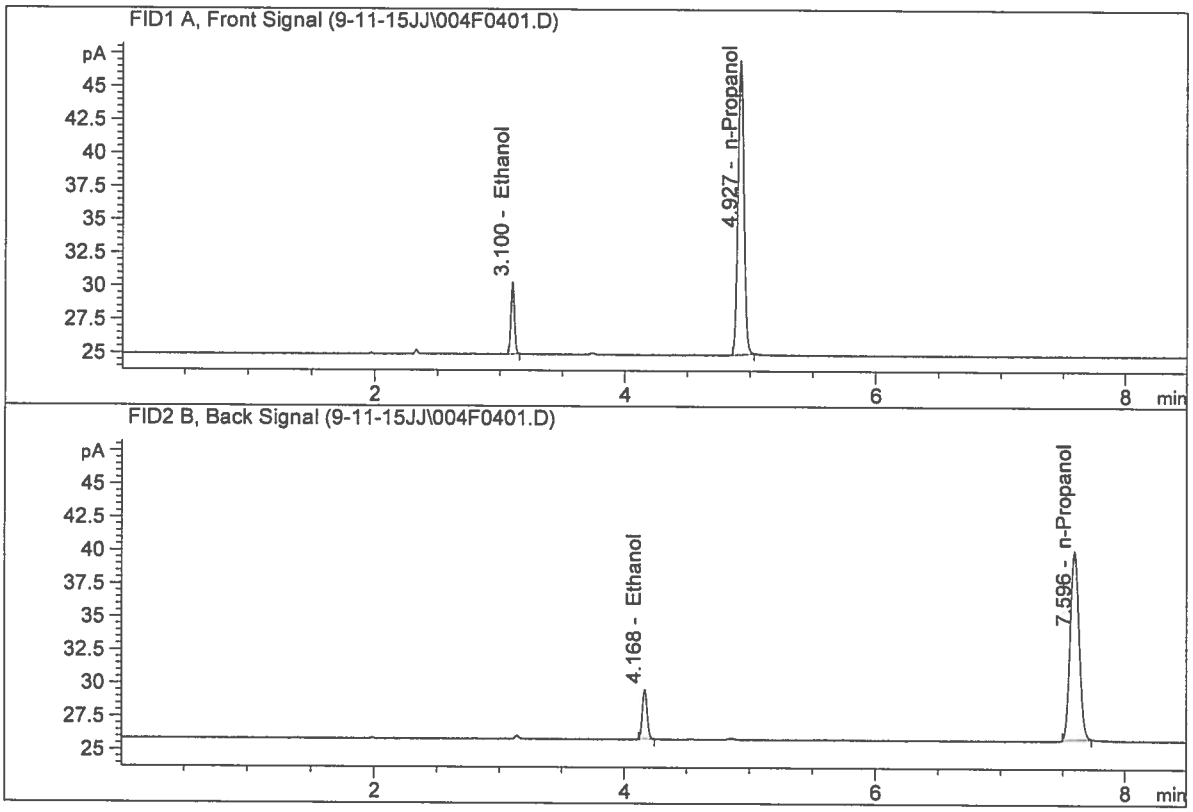


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.47371	0.0765	g/100cc
2.	Ethanol	Column 2:	10.42189	0.0765	g/100cc
3.	n-Propanol	Column 1:	72.79602	1.0000	g/100cc
4.	n-Propanol	Column 2:	72.09116	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-B
Laboratory : Coeur d' Alene
Injection Date : Sep 11, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.37239	0.0765	g/100cc
2.	Ethanol	Column 2:	10.29562	0.0763	g/100cc
3.	n-Propanol	Column 1:	72.14752	1.0000	g/100cc
4.	n-Propanol	Column 2:	71.44010	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN011712-02-1 **Analysis Date(s): 11 Sep 2015**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0806	0.0799	0.0007	0.0802	0.0803
(g/100cc)	0.0807	0.0802	0.0005	0.0804	

Analysis Method

Refer to Volatiles Analytical Method 1.0

Instrument Information

Instrument method is stored centrally.

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: MD-96GF641

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

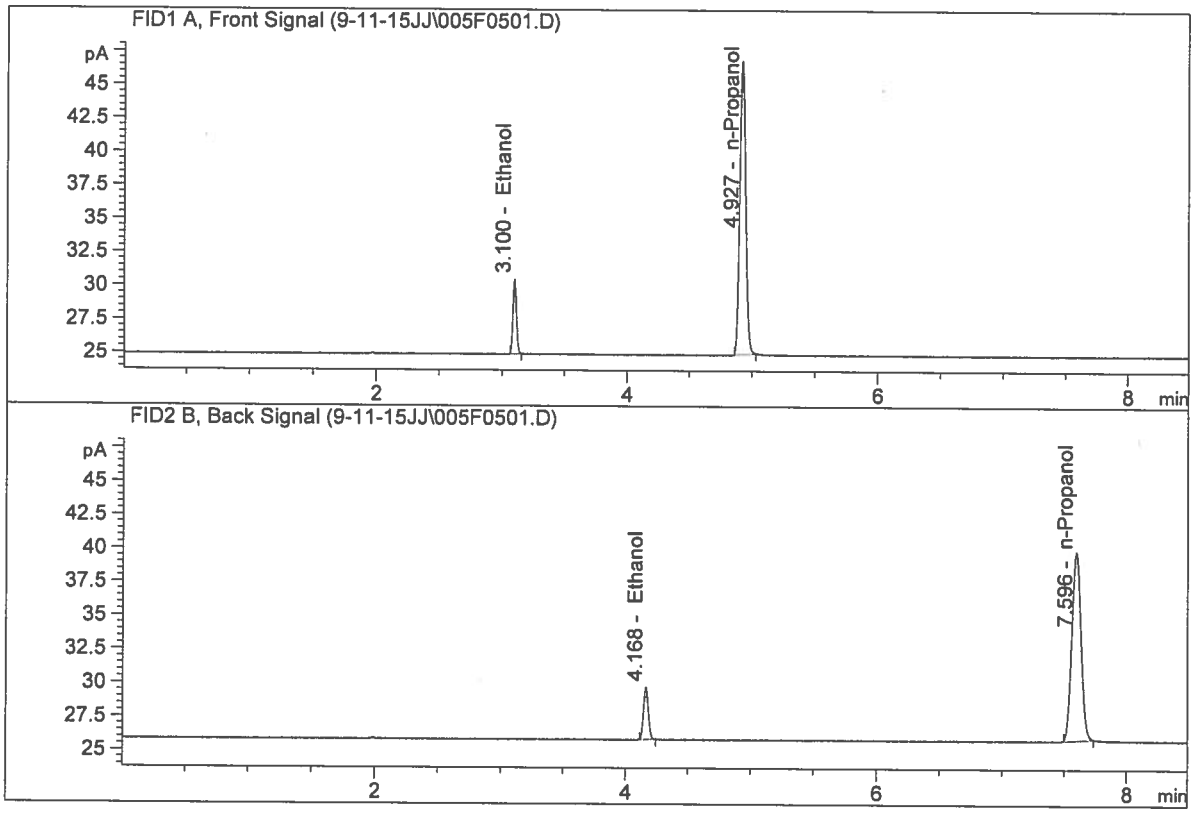
Calibration and control data are stored centrally.

Issued: 01/16/2014
Volatiles BAC Calculation Spreadsheet Rev 3
Issuing Authority: Quality Manager

99

ISP Forensic Services Blood Alcohol Report

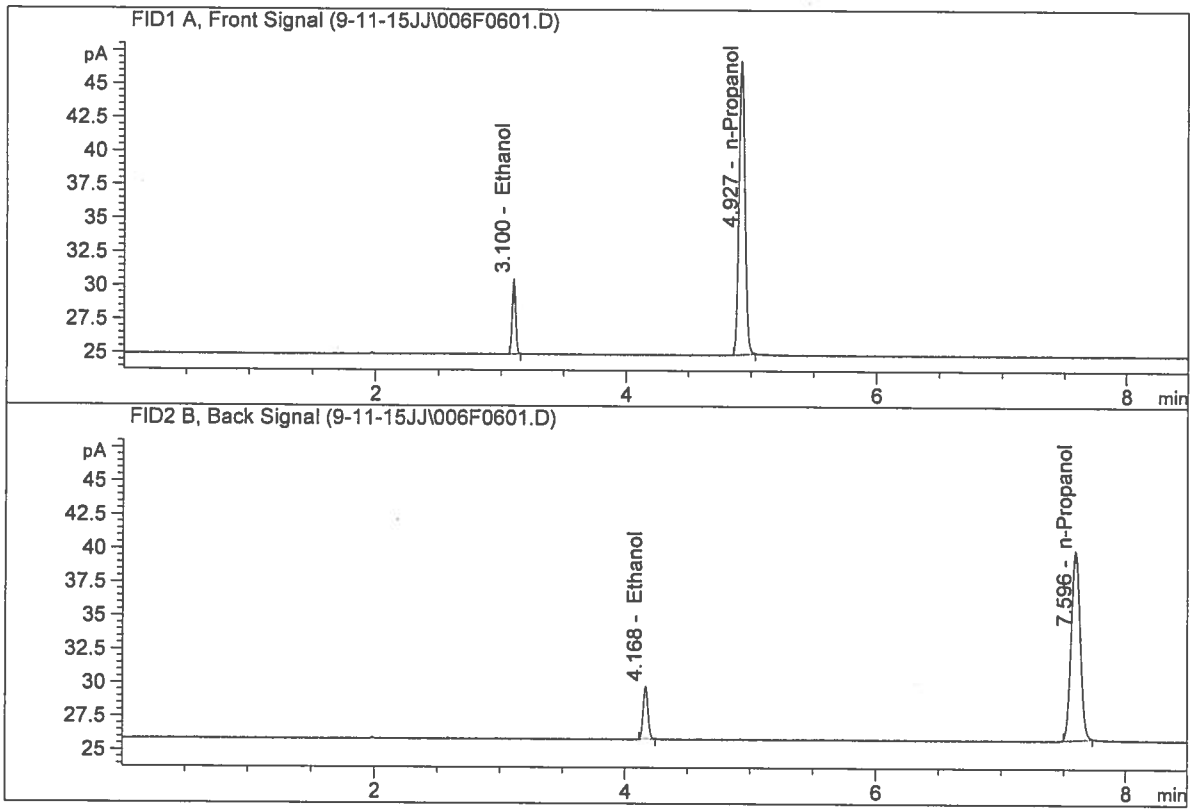
Sample Name : 0.08 FN011712-02-1-A
Laboratory : Coeur d' Alene
Injection Date : Sep 11, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.83778	0.0806	g/100cc
2.	Ethanol	Column 2:	10.68170	0.0799	g/100cc
3.	n-Propanol	Column 1:	71.50579	1.0000	g/100cc
4.	n-Propanol	Column 2:	70.74806	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN011712-02-1-B
Laboratory : Coeur d' Alene
Injection Date : Sep 11, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.83497	0.0807	g/100cc
2.	Ethanol	Column 2:	10.70295	0.0802	g/100cc
3.	n-Propanol	Column 1:	71.44195	1.0000	g/100cc
4.	n-Propanol	Column 2:	70.67599	1.0000	g/100cc

97

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-2 **Analysis Date(s): 11 Sep 2015**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.2052	0.2054	0.0002	0.2053	0.2054
(g/100cc)	0.2055	0.2058	0.0003	0.2056	

Analysis Method

Refer to Volatiles Analytical Method 1.0

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: MD-96GF641

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.205	0.194	0.216	0.011

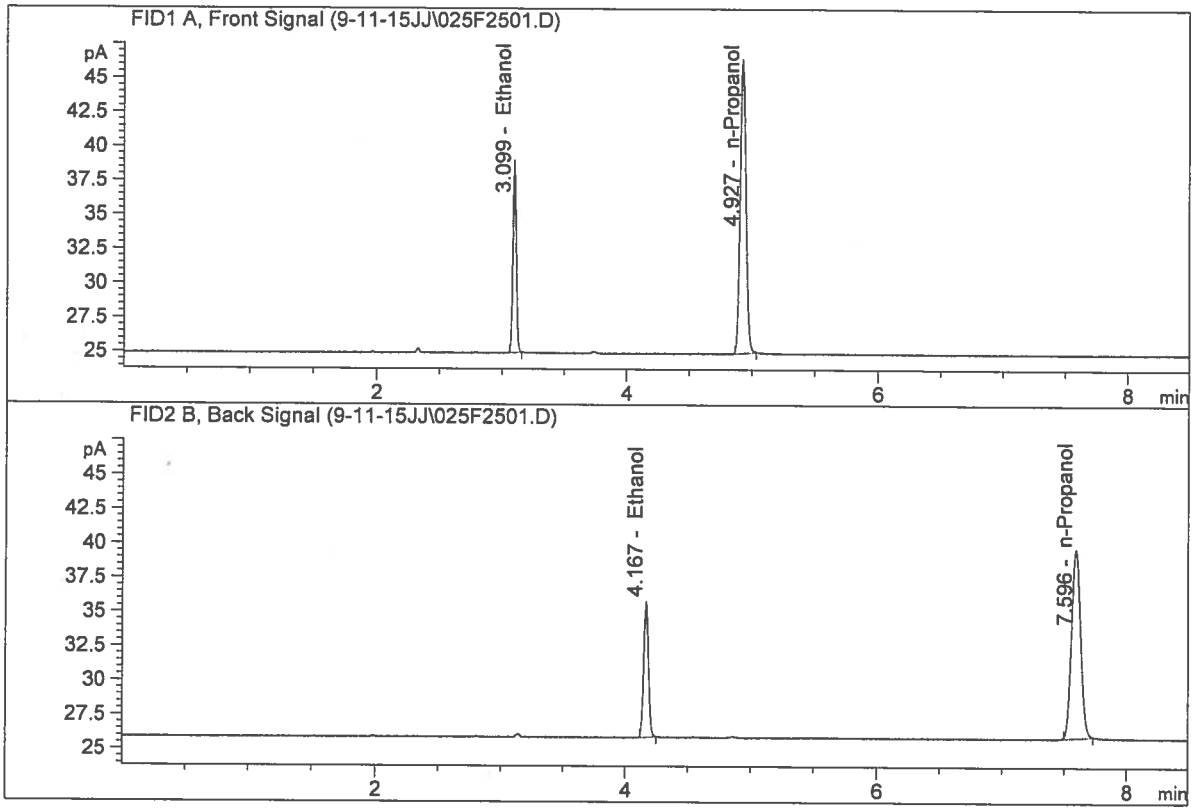
Reported Result
0.205

Calibration and control data are stored centrally.

Issued: 01/16/2014
Volatiles BAC Calculation Spreadsheet Rev 3
Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

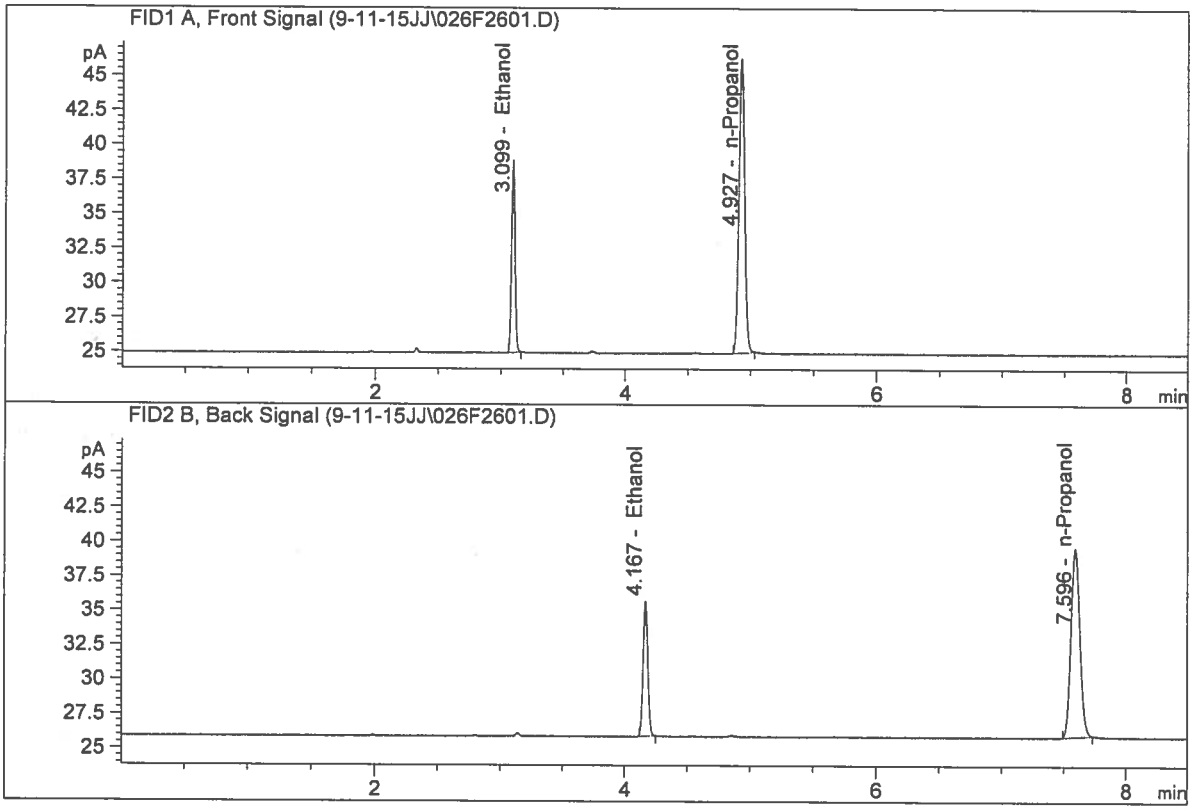
Sample Name : QC-2-A
Laboratory : Coeur d' Alene
Injection Date : Sep 11, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	27.05691	0.2052	g/100cc
2.	Ethanol	Column 2:	26.85840	0.2054	g/100cc
3.	n-Propanol	Column 1:	70.14024	1.0000	g/100cc
4.	n-Propanol	Column 2:	69.21573	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-2-B
Laboratory : Coeur d' Alene
Injection Date : Sep 11, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	26.89569	0.2055	g/100cc
2.	Ethanol	Column 2:	26.71938	0.2058	g/100cc
3.	n-Propanol	Column 1:	69.63757	1.0000	g/100cc
4.	n-Propanol	Column 2:	68.73964	1.0000	g/100cc

99

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1 **Analysis Date(s): 11 Sep 2015**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0770	0.0769	0.0001	0.0769	0.0768
(g/100cc)	0.0768	0.0765	0.0003	0.0766	

Analysis Method

Refer to Volatiles Analytical Method 1.0

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: MD-96GF641

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

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

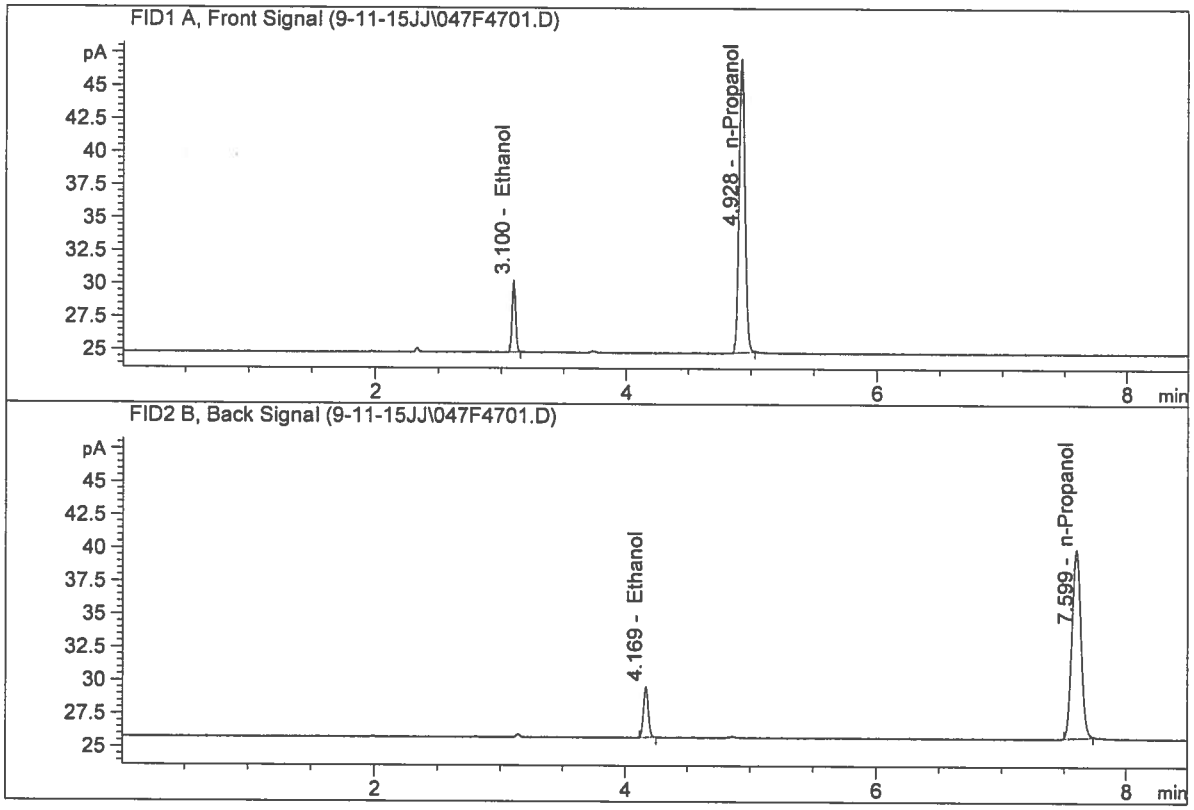
Reported Result
0.076

Calibration and control data are stored centrally.

Issued: 01/16/2014
Volatiles BAC Calculation Spreadsheet Rev 3
Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-A
Laboratory : Coeur d' Alene
Injection Date : Sep 11, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

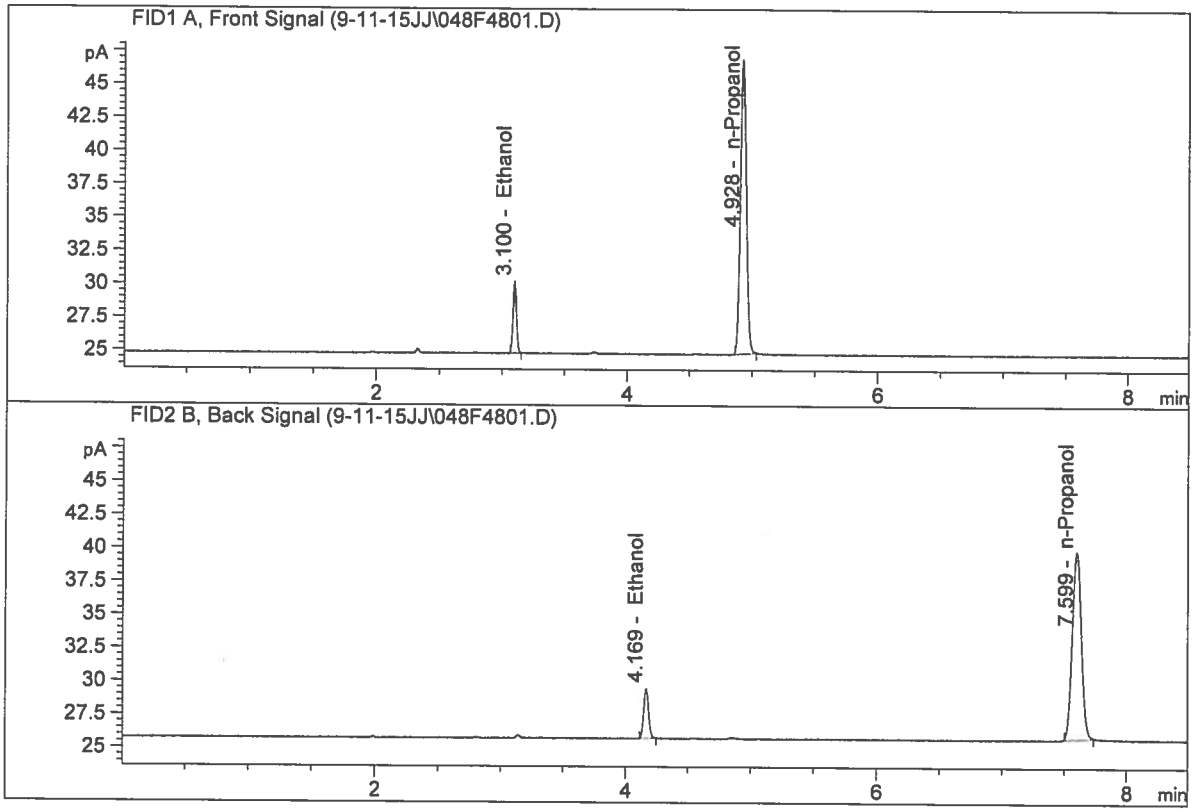


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.49732	0.0770	g/100cc
2.	Ethanol	Column 2:	10.42613	0.0769	g/100cc
3.	n-Propanol	Column 1:	72.54270	1.0000	g/100cc
4.	n-Propanol	Column 2:	71.74330	1.0000	g/100cc

97

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-B
Laboratory : Coeur d' Alene
Injection Date : Sep 11, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.40878	0.0768	g/100cc
2.	Ethanol	Column 2:	10.30125	0.0765	g/100cc
3.	n-Propanol	Column 1:	72.09333	1.0000	g/100cc
4.	n-Propanol	Column 2:	71.28557	1.0000	g/100cc

99

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-2 **Analysis Date(s): 11 Sep 2015**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.2041	0.2049	0.0008	0.2045	0.2050
(g/100cc)	0.2053	0.2059	0.0006	0.2056	

Analysis Method

Refer to Volatiles Analytical Method 1.0

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: MD-96GF641

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.205	0.194	0.216	0.011

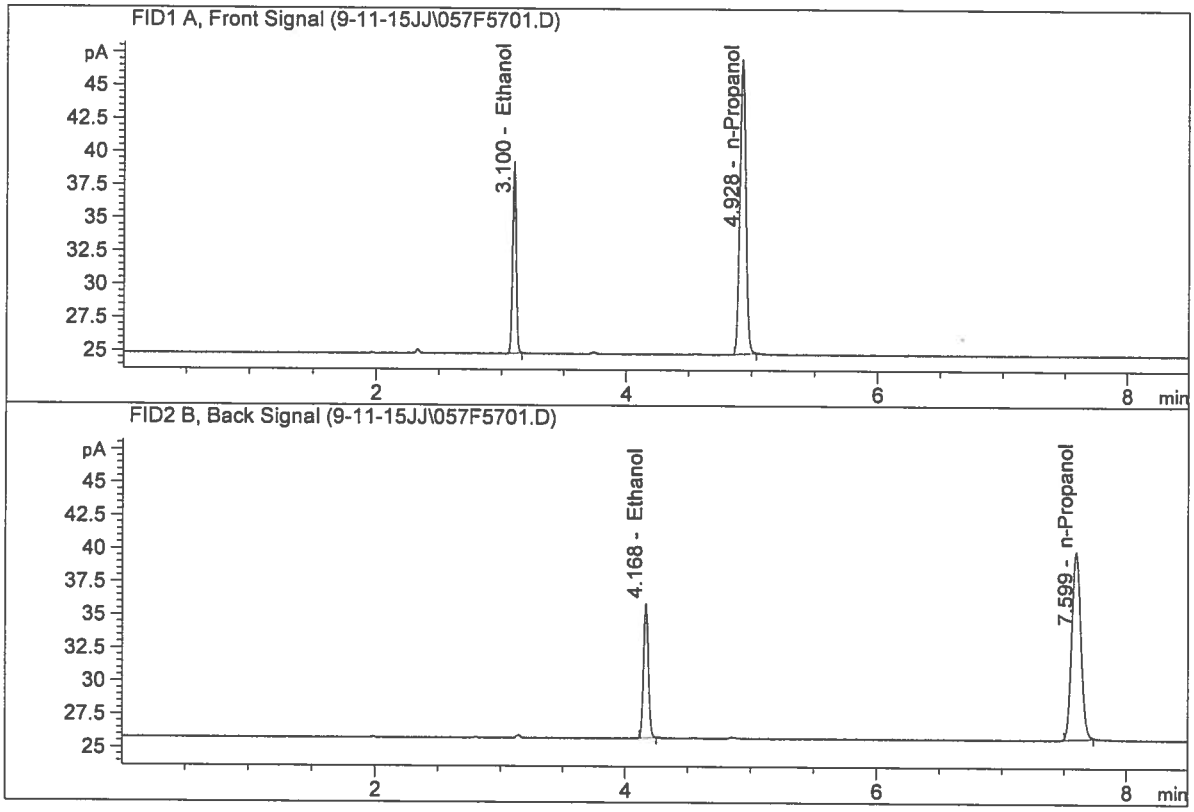
Reported Result
0.205

Calibration and control data are stored centrally.

Issued: 01/16/2014
Volatiles BAC Calculation Spreadsheet Rev 3
Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

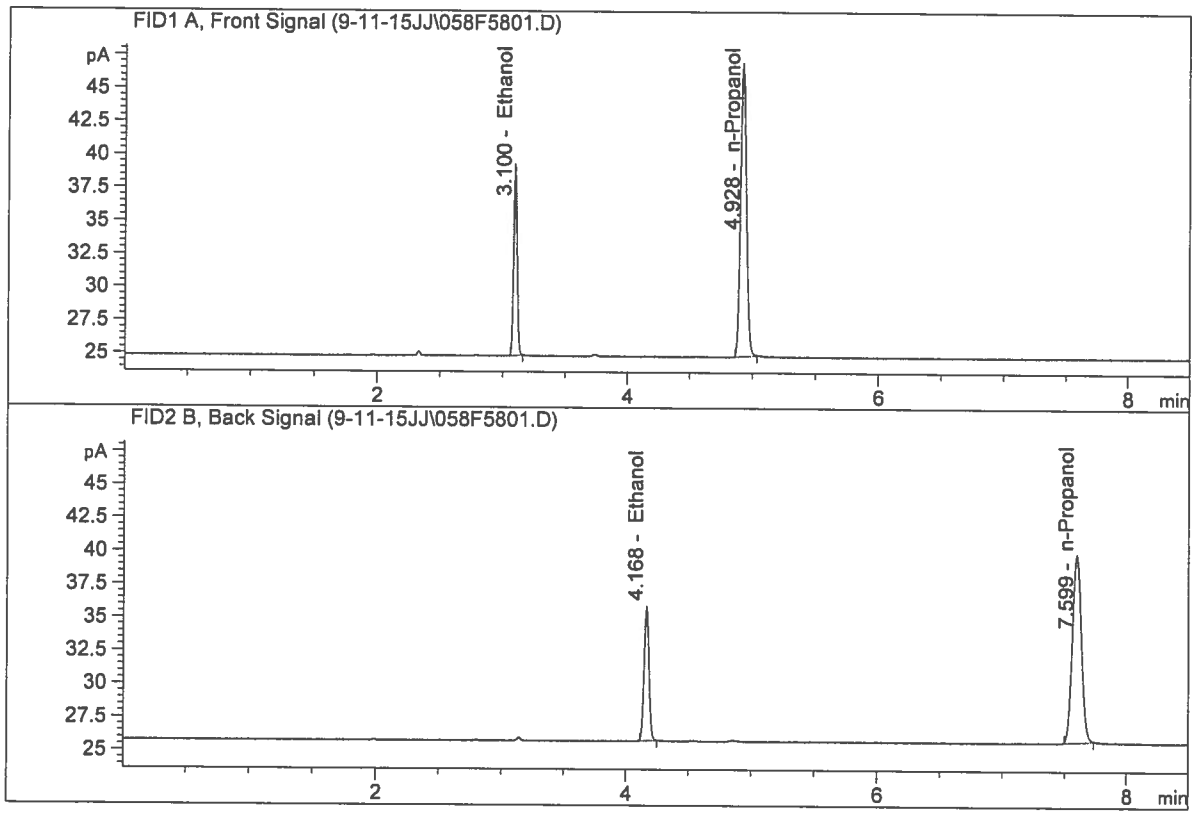
Sample Name : QC-2-A
Laboratory : Coeur d' Alene
Injection Date : Sep 11, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	27.77212	0.2041	g/100cc
2.	Ethanol	Column 2:	27.60244	0.2049	g/100cc
3.	n-Propanol	Column 1:	72.37921	1.0000	g/100cc
4.	n-Propanol	Column 2:	71.30852	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-2-B
Laboratory : Coeur d' Alene
Injection Date : Sep 11, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

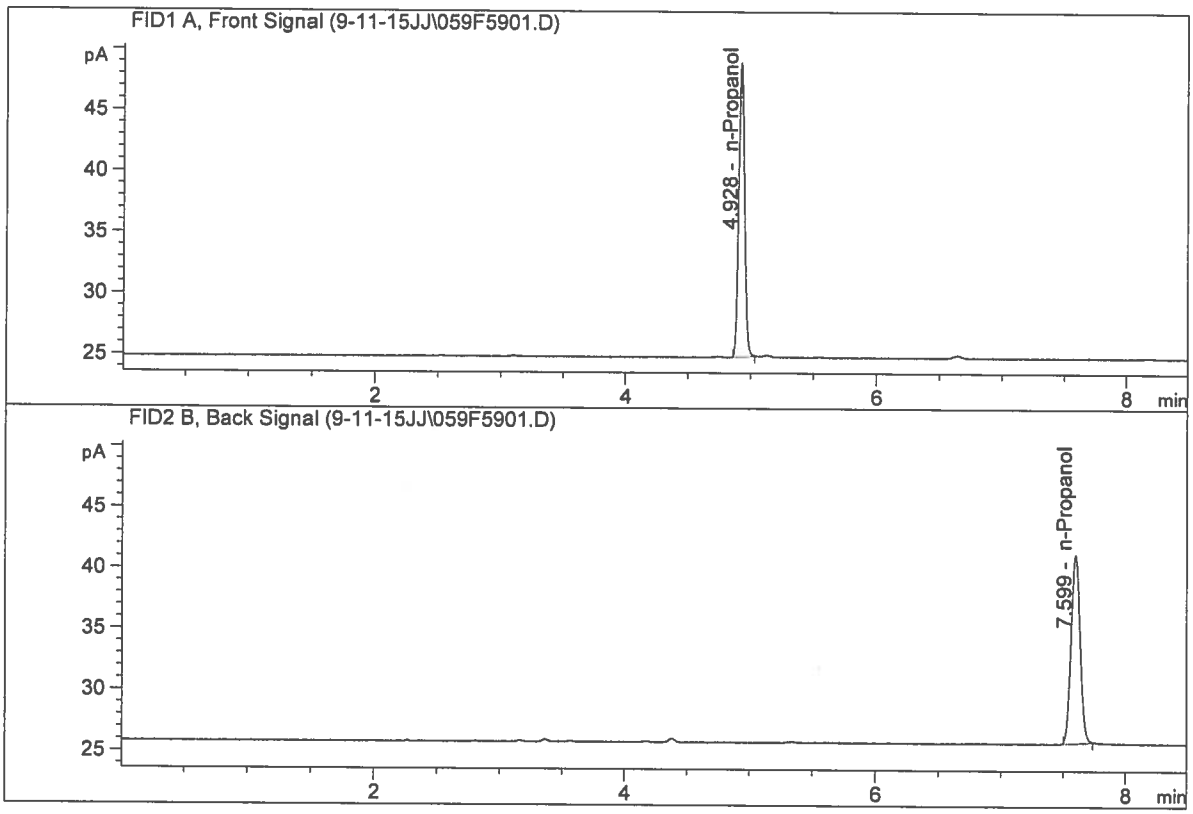


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	27.84969	0.2053	g/100cc
2.	Ethanol	Column 2:	27.61114	0.2059	g/100cc
3.	n-Propanol	Column 1:	72.17862	1.0000	g/100cc
4.	n-Propanol	Column 2:	70.99890	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

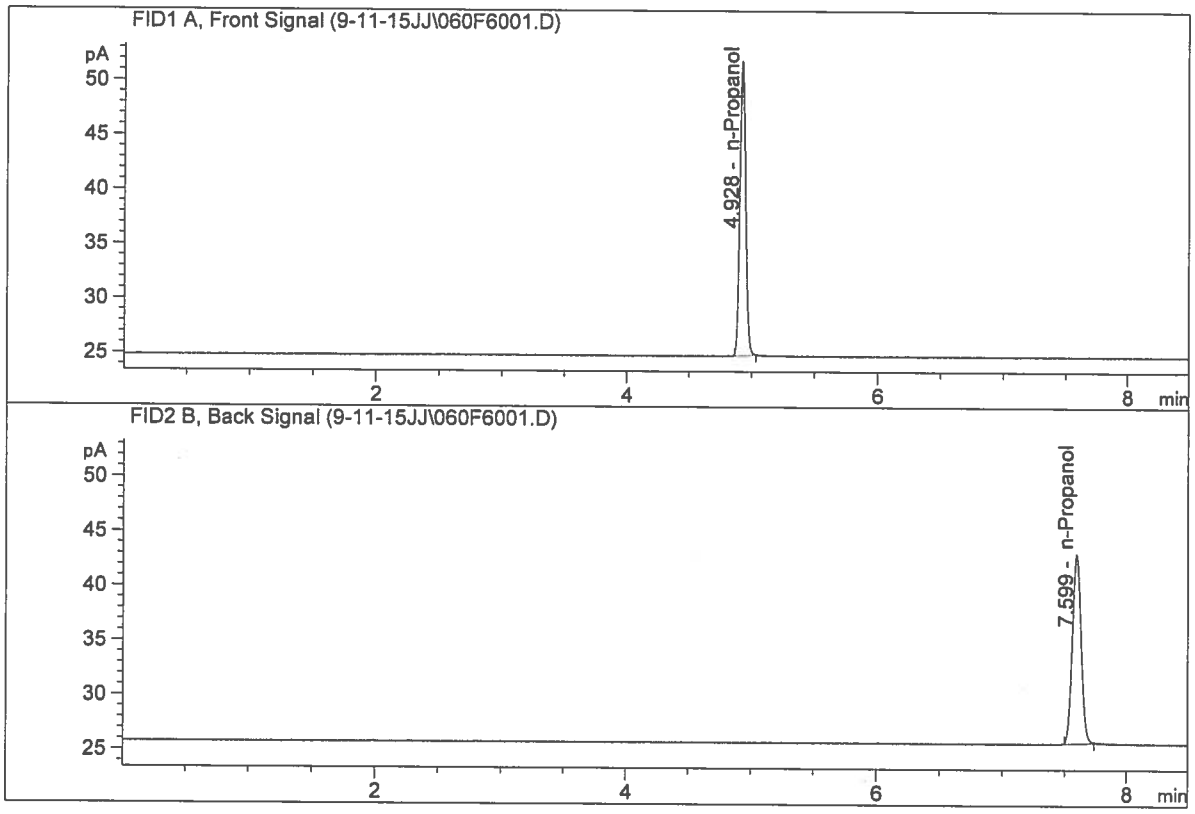
Sample Name : ISTD BLANK
Laboratory : Coeur d' Alene
Injection Date : Sep 11, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	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:	78.49023	1.0000	g/100cc
4.	n-Propanol	Column 2:	77.70032	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK
Laboratory : Coeur d' Alene
Injection Date : Sep 11, 2015
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:	88.08295	1.0000	g/100cc
4.	n-Propanol	Column 2:	87.45707	1.0000	g/100cc