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): 3/14/2016**

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Dec-16	1211090	0.0773	0.0696-0.0850	0.0760 g/100cc
					0.0777 g/100cc
					g/100cc
Level 2	Jan-17	1212091	0.2020	0.1818-0.2222	0.2087 g/100cc
					g/100cc
					g/100cc
Multi-Component mixture:		**Feb-20**	**Lot #**	FN01301506	OK
Curve Fit:			**Column 1**	1.00000	**Column2** 1.00000

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	0.0505	0.0498	0.0007	0.0501
0.080	Jan-17	FN09051304	0.080	0.072 - 0.088			0	#DIV/0!
0.100	Mar-19	FN02021403	0.100	0.090 - 0.110	0.0999	0.0991	0.0008	0.0995
0.200	Mar-17	FN032712-01	0.200	0.180 - 0.220	0.2010	0.2000	0.001	0.2005
0.300	Oct-18	FN09061305	0.300	0.270 - 0.330	0.2997	0.2994	0.0003	0.2995
0.400			0.400	0.360 - 0.440			0	#DIV/0!
0.500	Jan-18	FN01281301	0.500	0.450 - 0.550	0.4998	0.5005	0.0007	0.5001

Aqueous Controls

Control level	Expiration	Cerilliant Lot #	Target Value	Acceptable Range	Overall Results
0.080	Oct-18	FN09051304	0.08000	0.076 - 0.084	0.0801 g/100cc

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

Issued: 4/22/2015

Volatiles QA/QC data spreadsheet Rev 5

Issuing Authority: Quality Manager

Calibration Table

General Calibration Setting

Calib. Data Modified : Monday, March 14, 2016 10:32:56 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

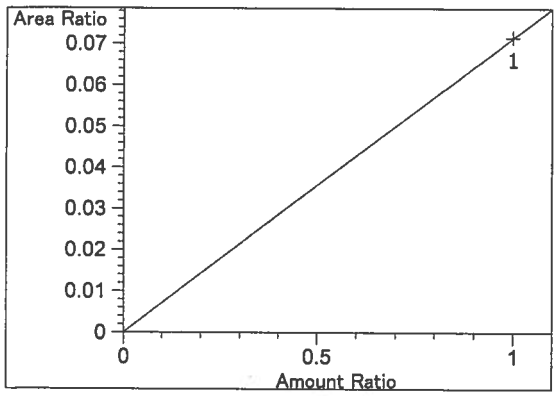
Overview Table

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
3.098	1	1	5.00000e-2	6.75131	7.40597e-3	No	No	1	Ethanol
		2	1.00000e-1	13.38429	7.47145e-3				
		3	2.00000e-1	26.76540	7.47233e-3				
		4	3.00000e-1	40.53727	7.40060e-3				
		5	5.00000e-1	69.14063	7.23164e-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
4.164	2	1	5.00000e-2	6.68311	7.48155e-3	No	No	2	Ethanol
		2	1.00000e-1	13.30112	7.51816e-3				
		3	2.00000e-1	26.61835	7.51361e-3				
		4	3.00000e-1	40.34641	7.43561e-3				
		5	5.00000e-1	68.84355	7.26284e-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
4.925	1	1	1.00000	70.12302	1.42607e-2	No	Yes	1	n-Propanol
		2	1.00000	70.26065	1.42327e-2				
		3	1.00000	69.84748	1.43169e-2				
		4	1.00000	70.95728	1.40930e-2				
		5	1.00000	72.57355	1.37791e-2				
7.591	2	1	1.00000	69.94920	1.42961e-2	No	Yes	2	n-Propanol
		2	1.00000	69.98263	1.42893e-2				
		3	1.00000	69.41329	1.44065e-2				
		4	1.00000	70.28037	1.42287e-2				
		5	1.00000	71.73964	1.39393e-2				

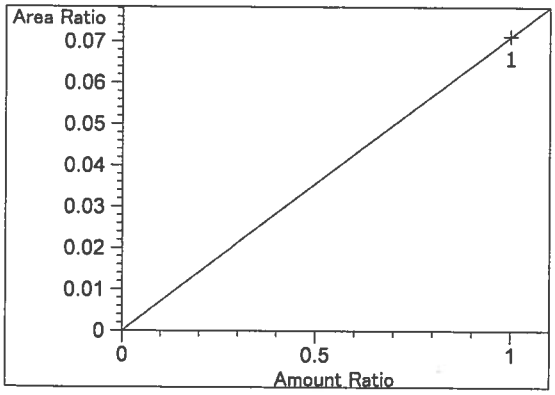
Peak Sum Table

No Entries in table

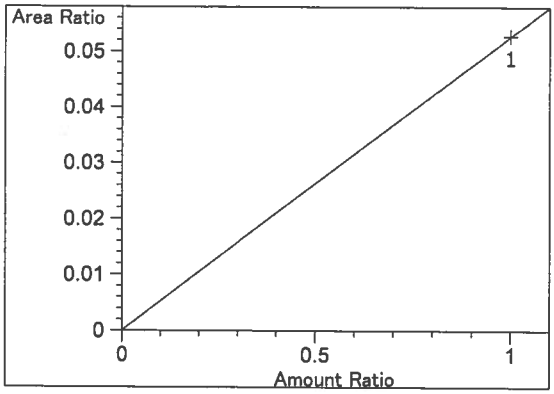
Calibration Curves



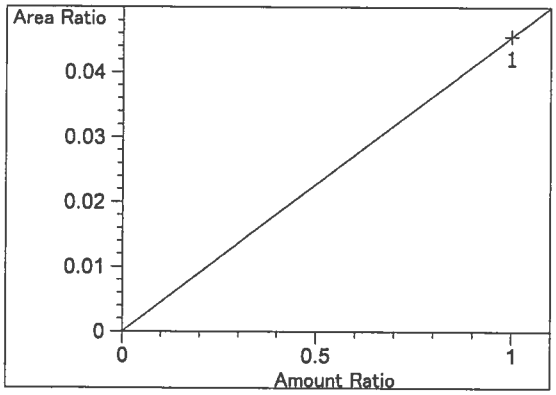
Difluoroethane at exp. RT: 2.000
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 7.14804e-2
x: Amount Ratio
y: Area Ratio



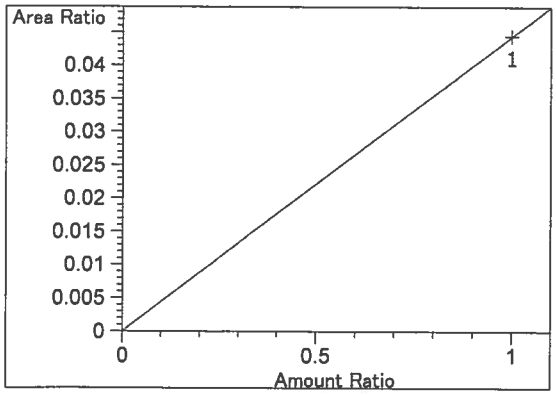
Difluoroethane at exp. RT: 2.000
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 7.13033e-2
x: Amount Ratio
y: Area Ratio



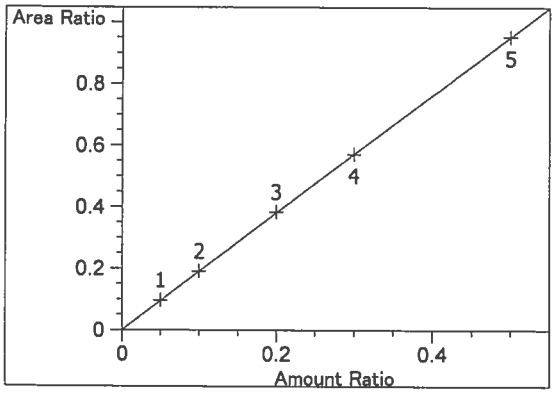
Methanol at exp. RT: 2.494
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 5.27173e-2
x: Amount Ratio
y: Area Ratio



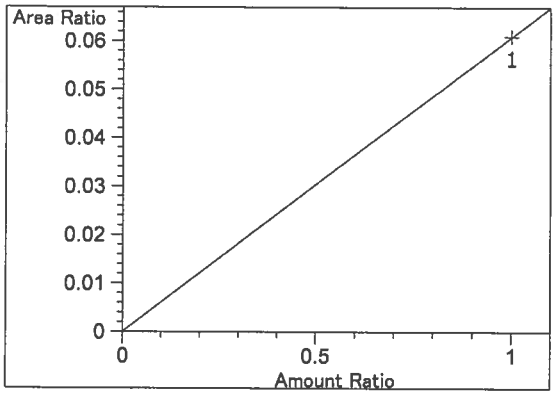
Acetaldehyde at exp. RT: 2.772
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 4.55358e-2
x: Amount Ratio
y: Area Ratio



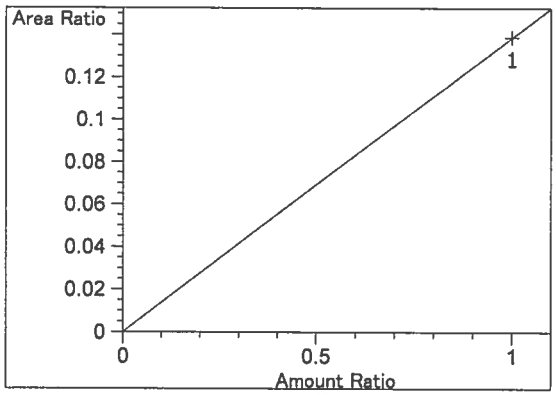
Acetaldehyde at exp. RT: 2.797
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 4.44001e-2
x: Amount Ratio
y: Area Ratio



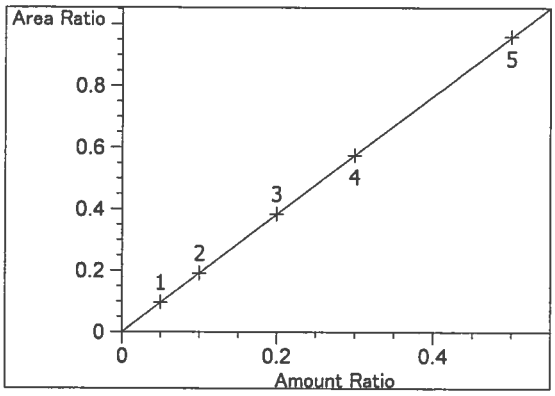
Ethanol at exp. RT: 3.098
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00115
Formula: y = mx
m: 1.90634
x: Amount Ratio
y: Area Ratio



Methanol at exp. RT: 3.211
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 6.09103e-2
x: Amount Ratio
y: Area Ratio

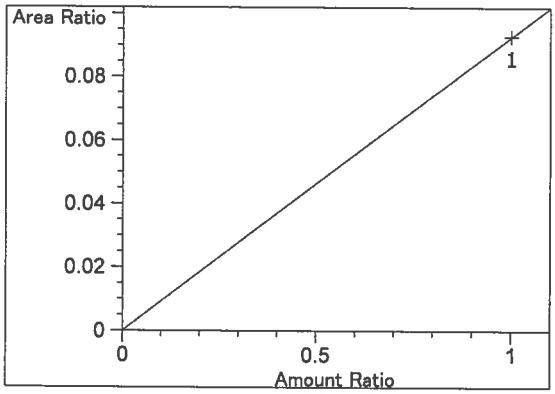


Isopropyl alcohol at exp. RT: 3.715
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.38764e-1
x: Amount Ratio
y: Area Ratio

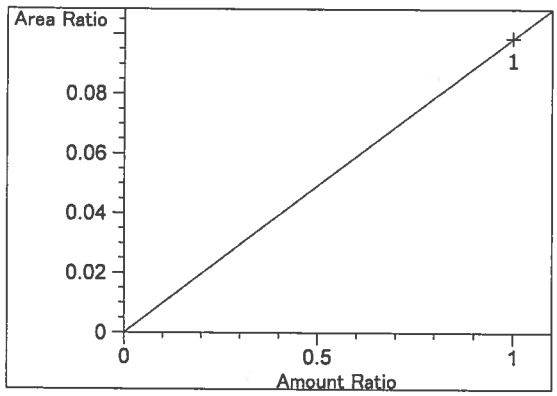


Ethanol at exp. RT: 4.164
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00113
Formula: y = mx
m: 1.91724
x: Amount Ratio
y: Area Ratio

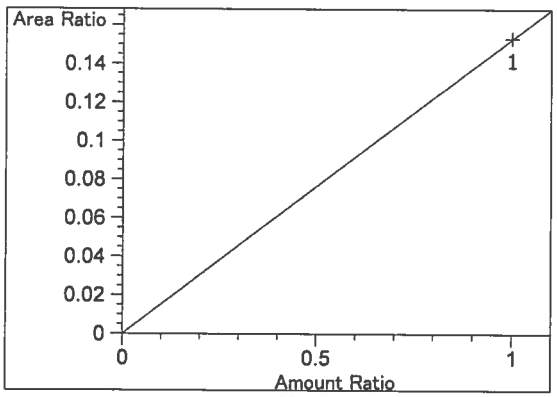
NN



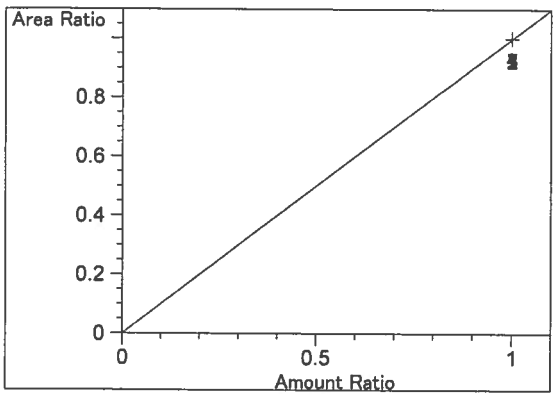
Acetone at exp. RT: 4.530
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 9.26857e-2
x: Amount Ratio
y: Area Ratio



Acetone at exp. RT: 4.549
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 9.85431e-2
x: Amount Ratio
y: Area Ratio

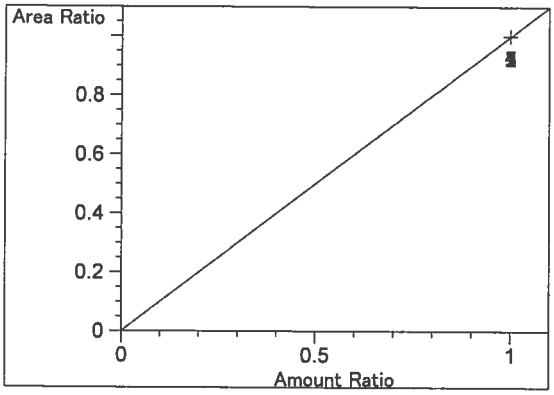


Isopropyl alcohol at exp. RT: 4.870
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.53060e-1
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 4.925
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.00000
x: Amount Ratio
y: Area Ratio

DVN



n-Propanol at exp. RT: 7.591
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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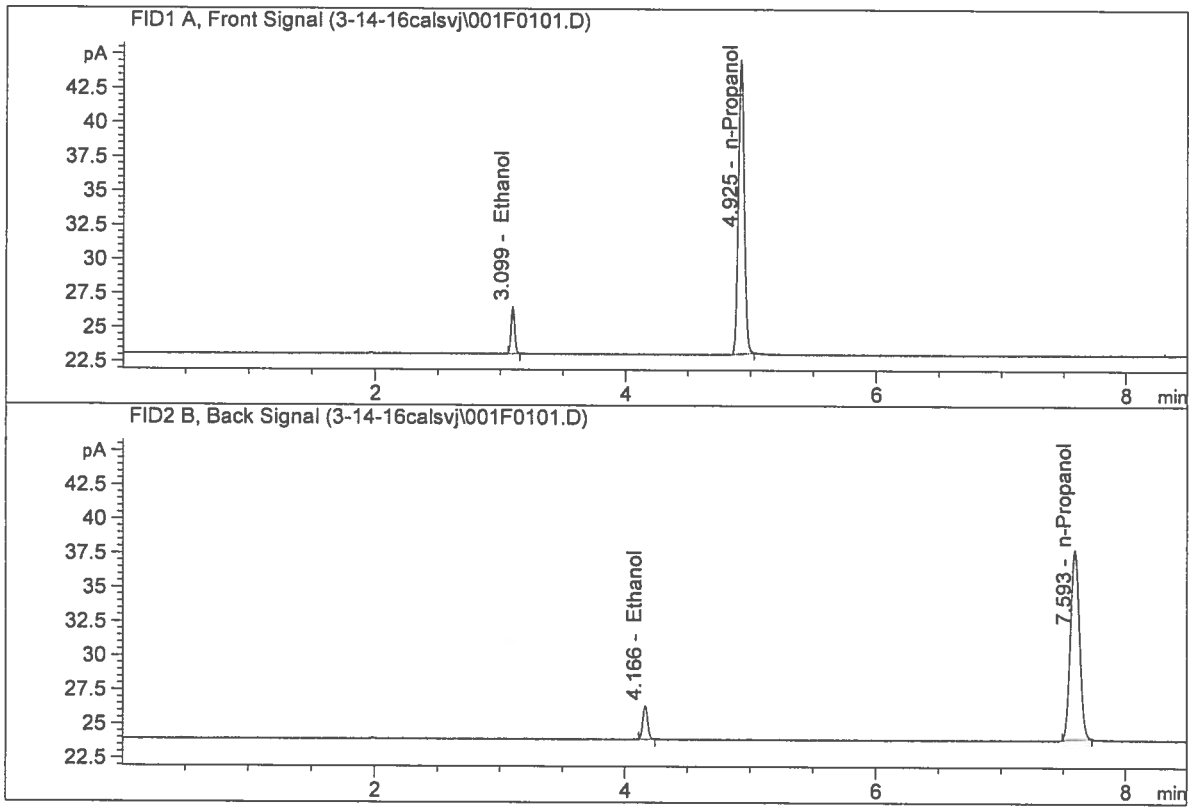
ISP Forensic Services Blood Alcohol Report

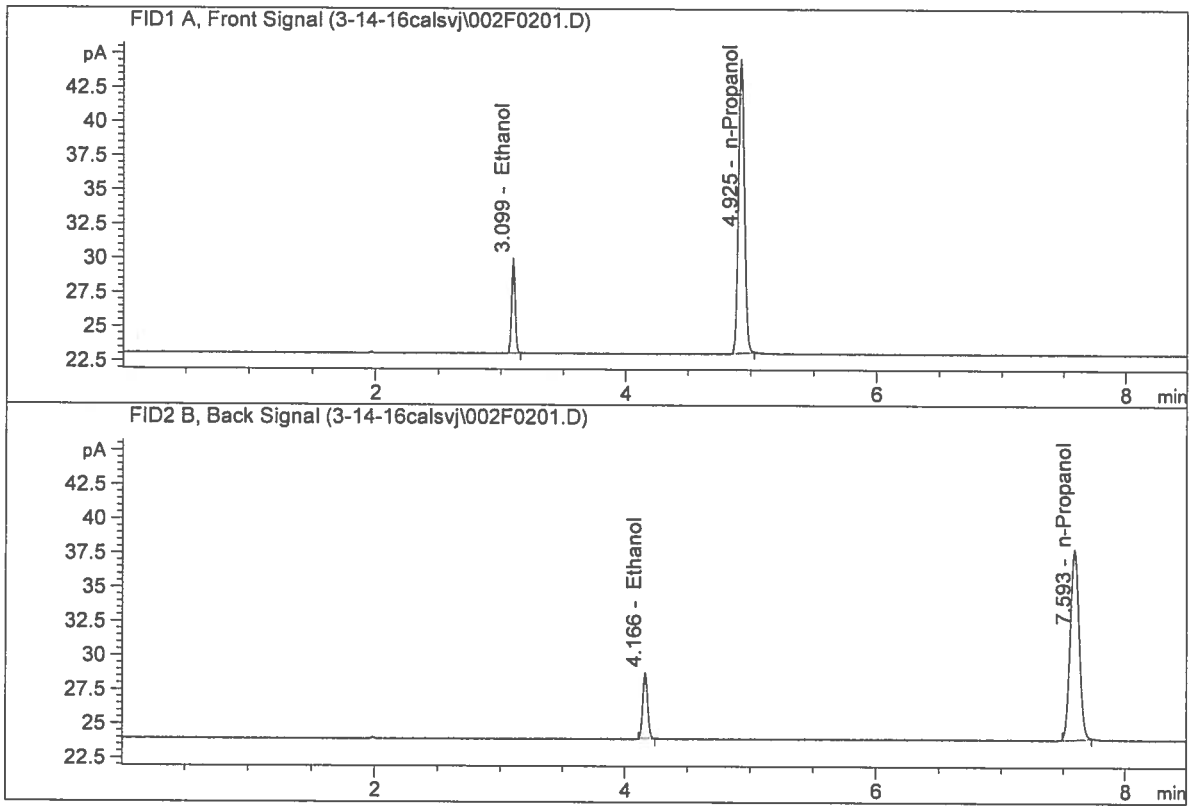
Sample Name : 0.05
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.75131	0.0505	g/100cc
2.	Ethanol	Column 2:	6.68311	0.0498	g/100cc
3.	n-Propanol	Column 1:	70.12302	1.0000	g/100cc
4.	n-Propanol	Column 2:	69.94920	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.100
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

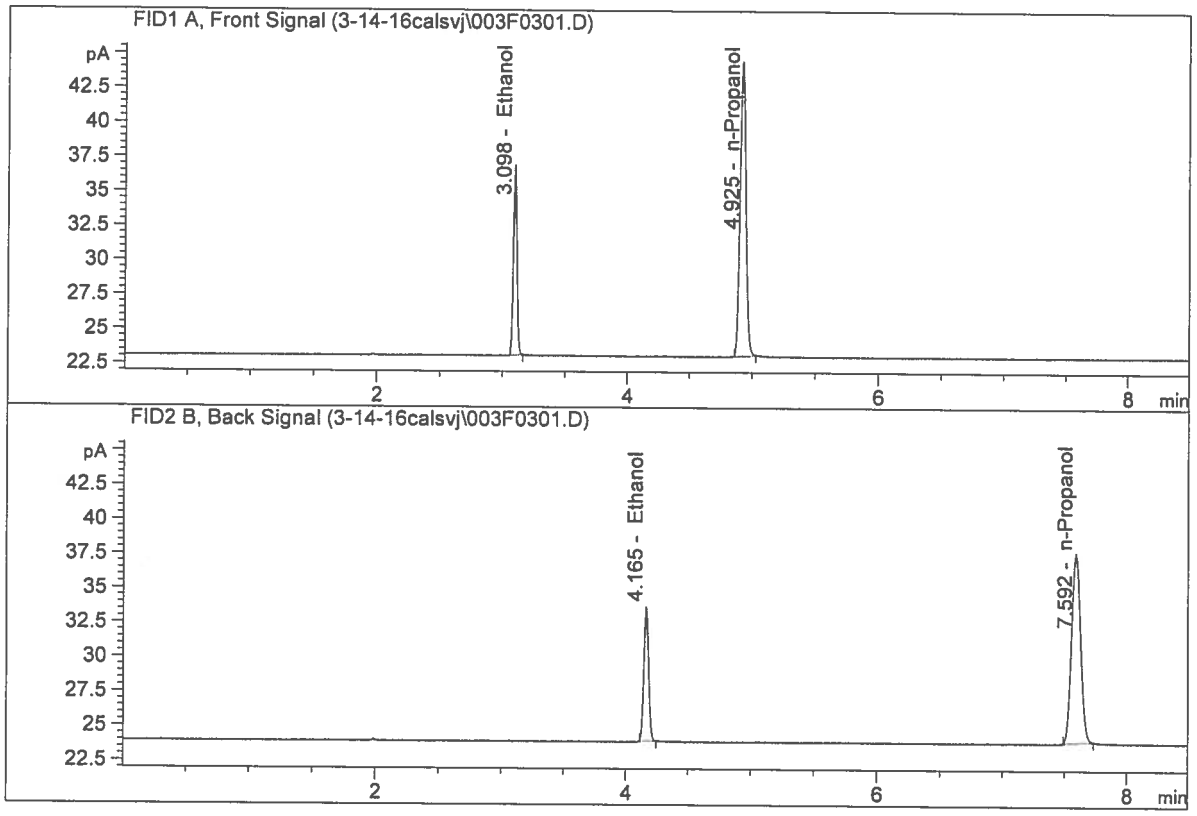


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.38429	0.0999	g/100cc
2.	Ethanol	Column 2:	13.30112	0.0991	g/100cc
3.	n-Propanol	Column 1:	70.26065	1.0000	g/100cc
4.	n-Propanol	Column 2:	69.98263	1.0000	g/100cc

NW

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.200
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

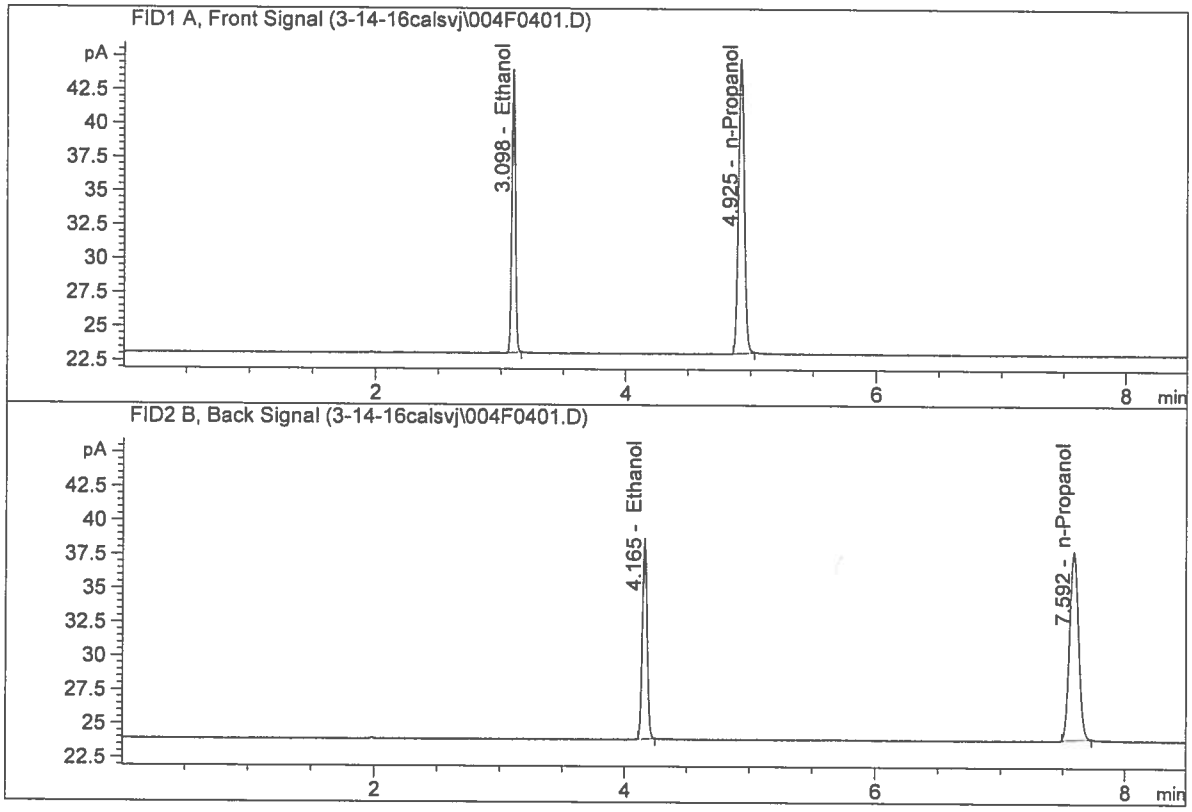


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	26.76540	0.2010	g/100cc
2.	Ethanol	Column 2:	26.61835	0.2000	g/100cc
3.	n-Propanol	Column 1:	69.84748	1.0000	g/100cc
4.	n-Propanol	Column 2:	69.41329	1.0000	g/100cc

NN

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.300
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

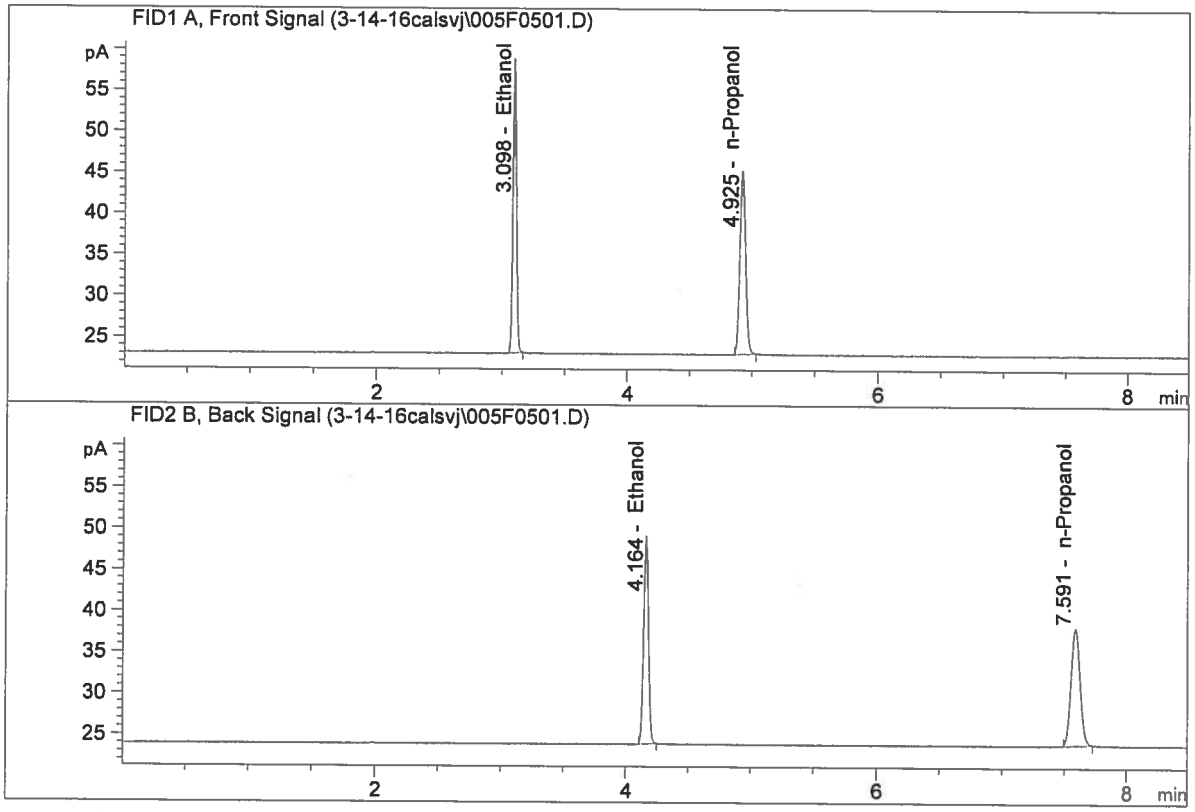


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	40.53727	0.2997	g/100cc
2.	Ethanol	Column 2:	40.34641	0.2994	g/100cc
3.	n-Propanol	Column 1:	70.95728	1.0000	g/100cc
4.	n-Propanol	Column 2:	70.28037	1.0000	g/100cc

NN

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.500
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	69.14063	0.4998	g/100cc
2.	Ethanol	Column 2:	68.84355	0.5005	g/100cc
3.	n-Propanol	Column 1:	72.57355	1.0000	g/100cc
4.	n-Propanol	Column 2:	71.73964	1.0000	g/100cc

RNN

Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_14.03.2016_11.28.30\3-14-2016.S
Data directory path: C:\Chem32\1\Data\3-14-2016SVJ
Logbook: C:\Chem32\1\Data\3-14-2016SVJ\3-14-2016.LOG
Sequence start: 3/14/2016 11:42:16 AM
Sequence Operator: SYSTEM
Operator: SYSTEM

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

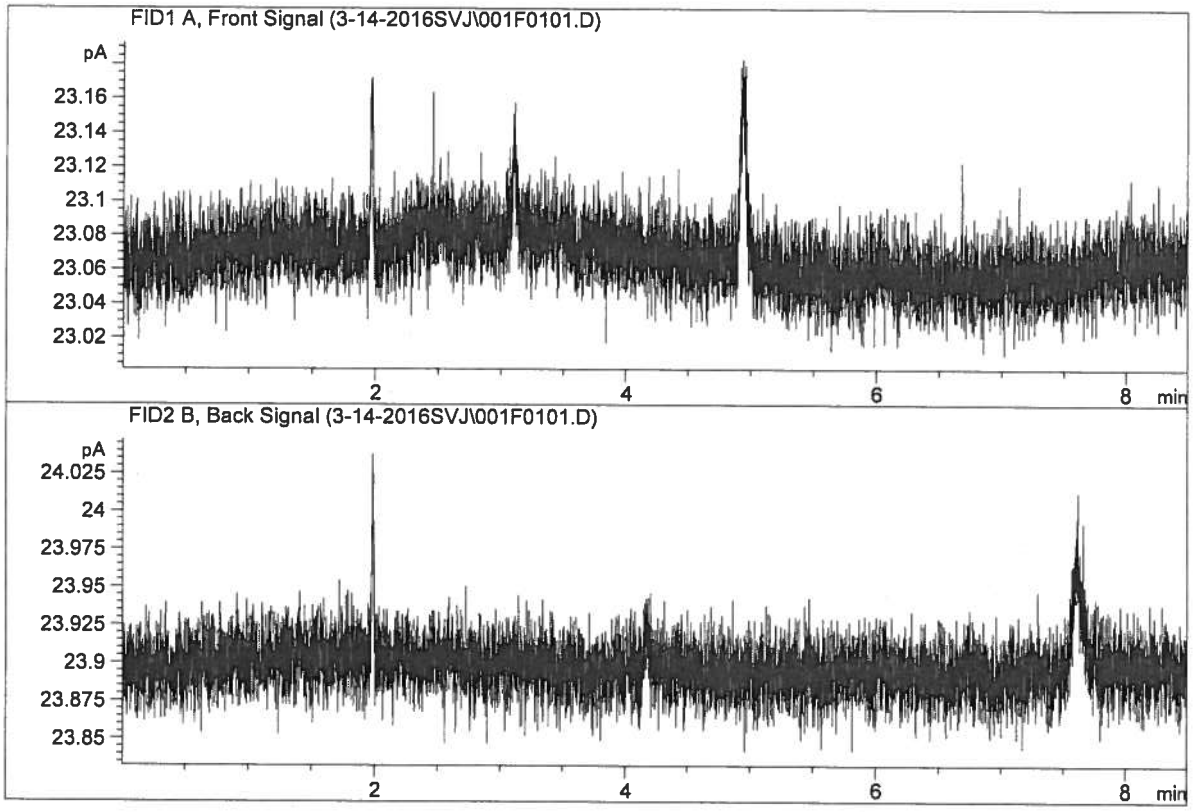
Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	Cmp
1	1	1	water	-	1.0000	001F0101.D		0
2	2	1	VOL MIX FN-06041	-	1.0000	002F0201.D		10
3	3	1	ISTD BLANK	-	1.0000	003F0301.D		2
4	4	1	QC-1-A	-	1.0000	004F0401.D		4
5	5	1	QC-1-B	-	1.0000	005F0501.D		4
6	6	1	0.08 FN09051304-	-	1.0000	006F0601.D		4
7	7	1	0.08 FN09051304-	-	1.0000	007F0701.D		4
8	8	1	M2015-4255-3-A	-	1.0000	008F0801.D		2
9	9	1	M2015-4255-3-B	-	1.0000	009F0901.D		2
10	10	1	C2016-0283-1-A	-	1.0000	010F1001.D		4
11	11	1	C2016-0283-1-B	-	1.0000	011F1101.D		4
12	12	1	C2016-0285-1-A	-	1.0000	012F1201.D		4
13	13	1	C2016-0285-1-B	-	1.0000	013F1301.D		4
14	14	1	C2016-0288-1-A	-	1.0000	014F1401.D		4
15	15	1	C2016-0288-1-B	-	1.0000	015F1501.D		4
16	16	1	C2016-0299-1-A	-	1.0000	016F1601.D		4
17	17	1	C2016-0299-1-B	-	1.0000	017F1701.D		4
18	18	1	C2016-0307-1-A	-	1.0000	018F1801.D		6
19	19	1	C2016-0307-1-B	-	1.0000	019F1901.D		6
20	20	1	C2016-0327-1-A	-	1.0000	020F2001.D		4
21	21	1	C2016-0327-1-B	-	1.0000	021F2101.D		4
22	22	1	C2016-0343-1-A	-	1.0000	022F2201.D		4
23	23	1	C2016-0343-1-B	-	1.0000	023F2301.D		4
24	24	1	C2016-0351-1-A	-	1.0000	024F2401.D		2
25	25	1	C2016-0351-1-B	-	1.0000	025F2501.D		2
26	26	1	QC-2-A	-	1.0000	026F2601.D		4
27	27	1	QC-2-B	-	1.0000	027F2701.D		4
28	28	1	C2016-0399-1.1-A	-	1.0000	028F2801.D		4
29	29	1	C2016-0399-1.1-B	-	1.0000	029F2901.D		4
30	30	1	C2016-0399-1.2-A	-	1.0000	030F3001.D		4
31	31	1	C2016-0399-1.2-B	-	1.0000	031F3101.D		4
32	32	1	C2016-0399-1.3-A	-	1.0000	032F3201.D		4
33	33	1	C2016-0399-1.3-B	-	1.0000	033F3301.D		4
34	34	1	C2016-0399-1.4-A	-	1.0000	034F3401.D		4
35	35	1	C2016-0399-1.4-B	-	1.0000	035F3501.D		4
36	36	1	C2016-0406-1-A	-	1.0000	036F3601.D		4
37	37	1	C2016-0406-1-B	-	1.0000	037F3701.D		4
38	38	1	C2016-0419-1-A	-	1.0000	038F3801.D		4
39	39	1	C2016-0419-1-B	-	1.0000	039F3901.D		4
40	40	1	C2016-0437-1-A	-	1.0000	040F4001.D		4
41	41	1	C2016-0437-1-B	-	1.0000	041F4101.D		4
42	42	1	C2016-0439-1-A	-	1.0000	042F4201.D		4
43	43	1	C2016-0439-1-B	-	1.0000	043F4301.D		4
44	44	1	VOL MIX FN-06041	-	1.0000	044F4401.D		10
45	45	1	QC-1-A	-	1.0000	045F4501.D		4
46	46	1	QC-1-B	-	1.0000	046F4601.D		4

Sequence File C:\Chem32\1\TEMP\AESEQ\QS_14.03.2016_11.28.30\3-14-2016.S

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	Cmp
47	47	1	ISTD BLANK	-	1.0000	047F4701.D		2
48	48	1	05	-	1.0000	048F4801.D		4
49	49	1	100	-	1.0000	049F4901.D		4
50	50	1	200	-	1.0000	050F5001.D		4
51	51	1	300	-	1.0000	051F5101.D		4
52	52	1	500	-	1.0000	052F5201.D		4

ISP Forensic Services Blood Alcohol Report

Sample Name : water
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

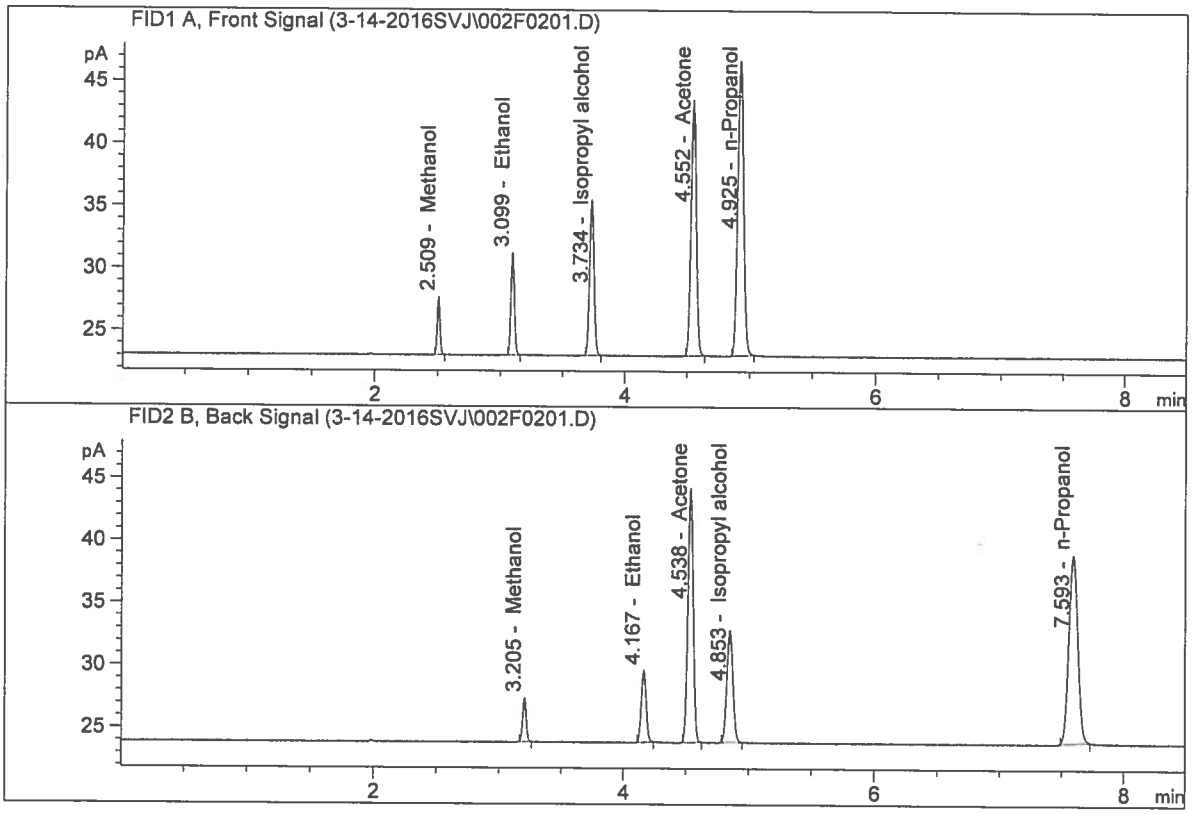


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	0.00000	0.0000	g/100cc
4.	n-Propanol	Column 2:	0.00000	0.0000	g/100cc

BKN

ISP Forensic Services Blood Alcohol Report

Sample Name : VOL MIX FN-06041502
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

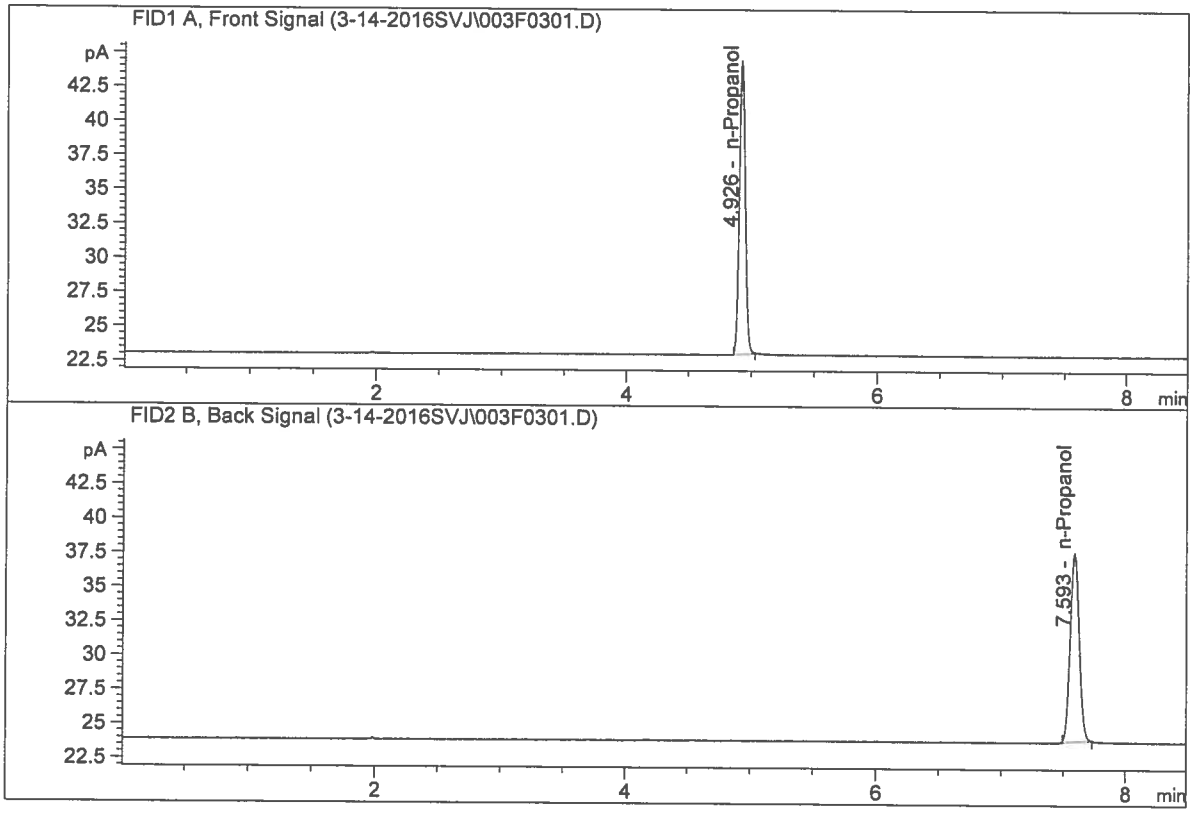


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	15.87858	0.1082	g/100cc
2.	Ethanol	Column 2:	15.77231	0.1076	g/100cc
3.	n-Propanol	Column 1:	76.95760	1.0000	g/100cc
4.	n-Propanol	Column 2:	76.46164	1.0000	g/100cc

NN

ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

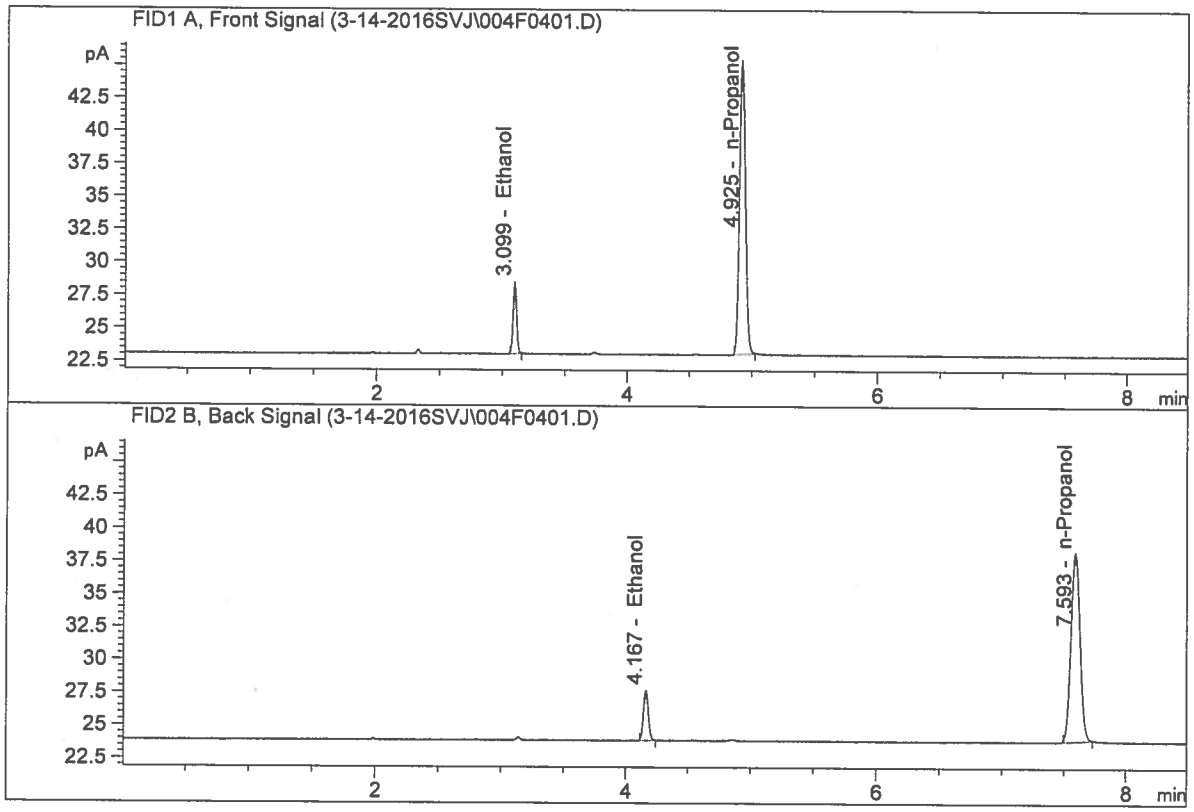


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	70.06985	1.0000	g/100cc
4.	n-Propanol	Column 2:	69.55665	1.0000	g/100cc

NN

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-A
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

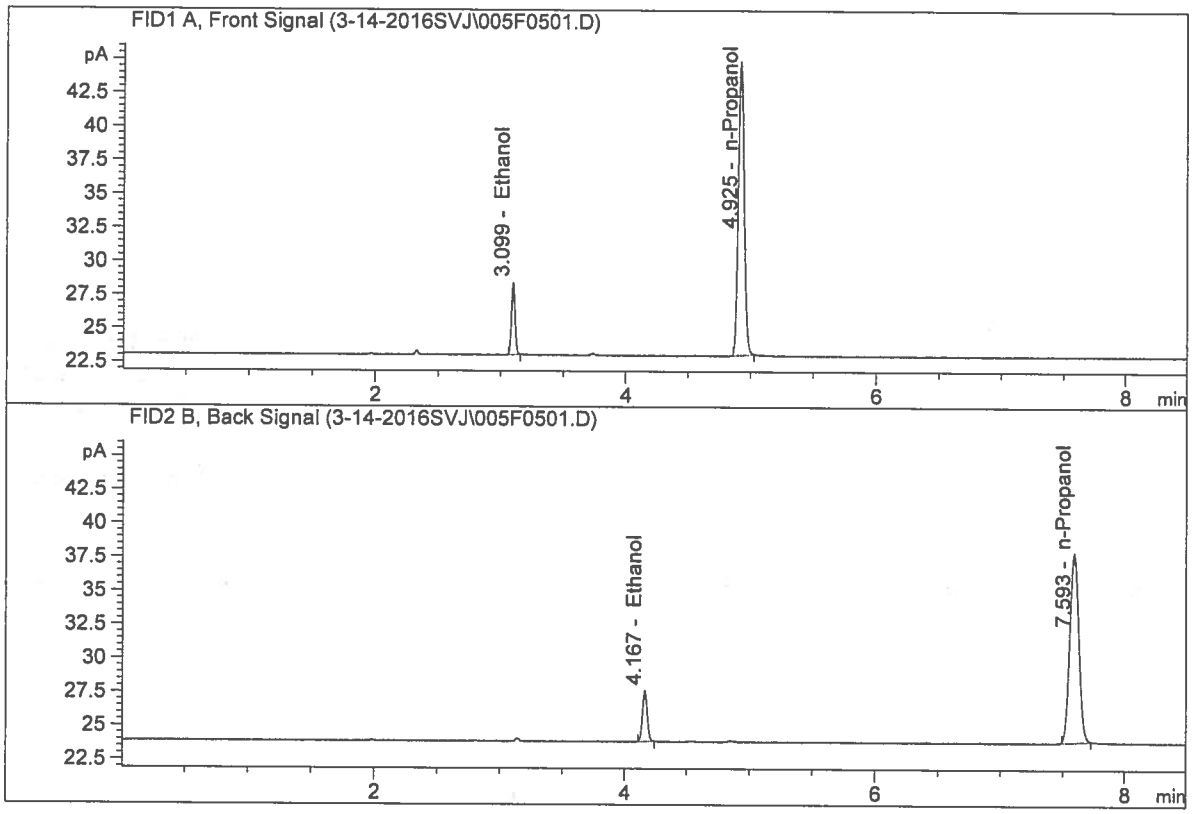


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.54520	0.0758	g/100cc
2.	Ethanol	Column 2:	10.50462	0.0757	g/100cc
3.	n-Propanol	Column 1:	72.93681	1.0000	g/100cc
4.	n-Propanol	Column 2:	72.35736	1.0000	g/100cc

NN

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-B
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.40549	0.0764	g/100cc
2.	Ethanol	Column 2:	10.35247	0.0762	g/100cc
3.	n-Propanol	Column 1:	71.45490	1.0000	g/100cc
4.	n-Propanol	Column 2:	70.89106	1.0000	g/100cc

NN

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1 **Analysis Date(s): 14 Mar 2016**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0758	0.0757	0.0001	0.0757	0.0760
(g/100cc)	0.0764	0.0762	0.0002	0.0763	

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

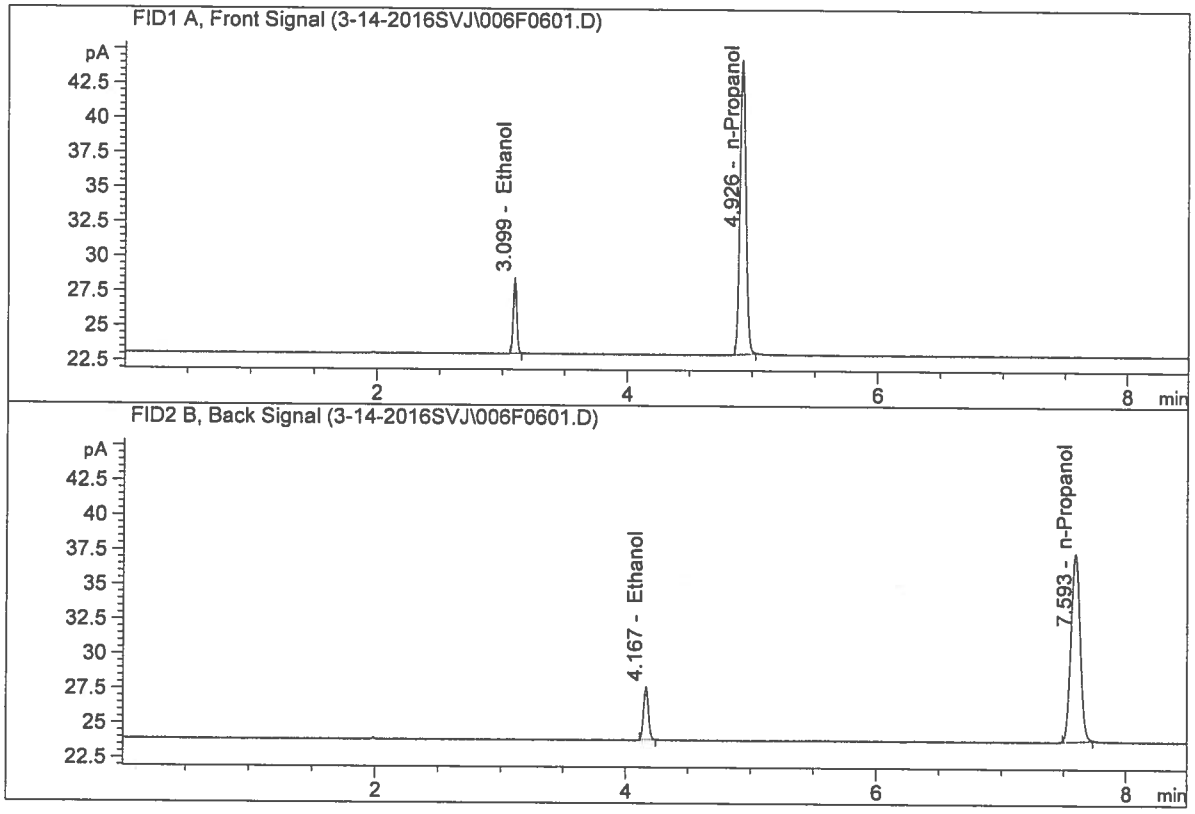
Calibration and control data are stored centrally.

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

NN

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN09051304-A
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

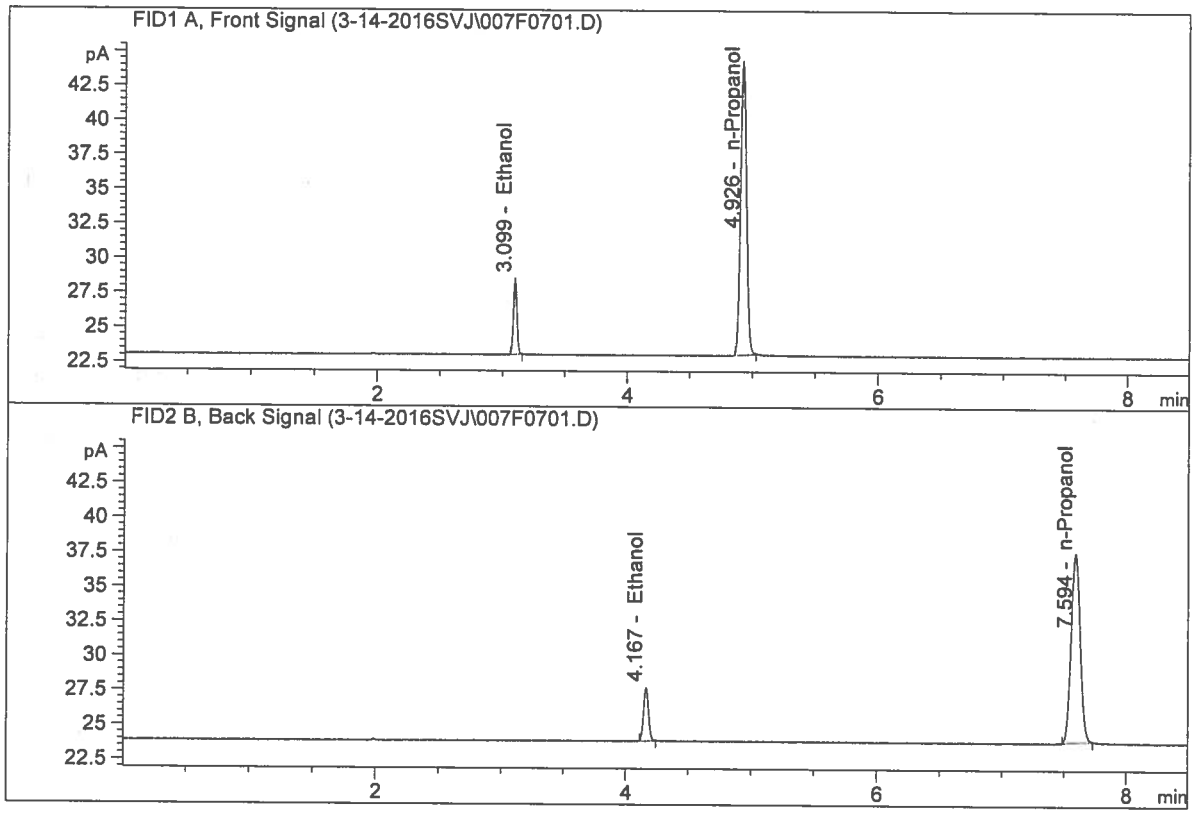


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.59483	0.0803	g/100cc
2.	Ethanol	Column 2:	10.46442	0.0794	g/100cc
3.	n-Propanol	Column 1:	69.17944	1.0000	g/100cc
4.	n-Propanol	Column 2:	68.70454	1.0000	g/100cc

NN

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN09051304-B
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.71457	0.0809	g/100cc
2.	Ethanol	Column 2:	10.58748	0.0800	g/100cc
3.	n-Propanol	Column 1:	69.47583	1.0000	g/100cc
4.	n-Propanol	Column 2:	68.99139	1.0000	g/100cc

PNA

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN09051304 **Analysis Date(s): 14 Mar 2016**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0803	0.0794	0.0009	0.0798	0.0801
(g/100cc)	0.0809	0.0800	0.0009	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

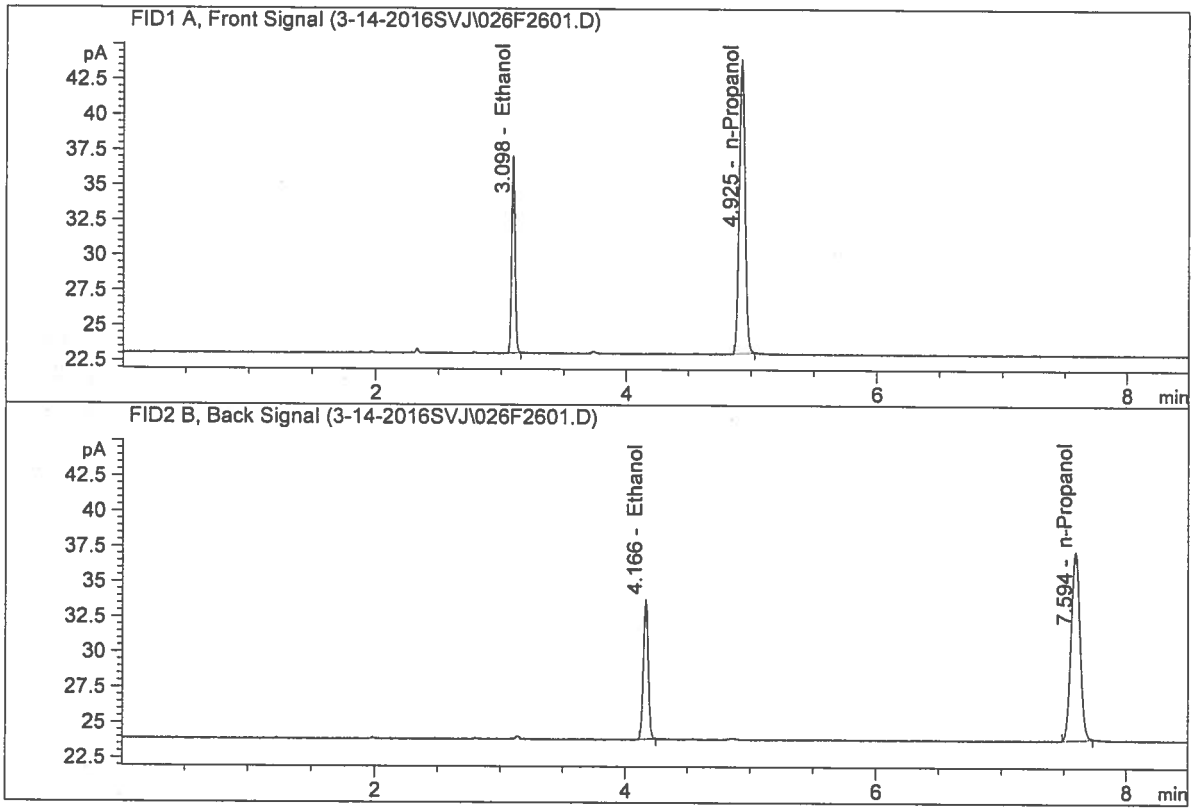
Calibration and control data are stored centrally.

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

NN

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-2-A
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

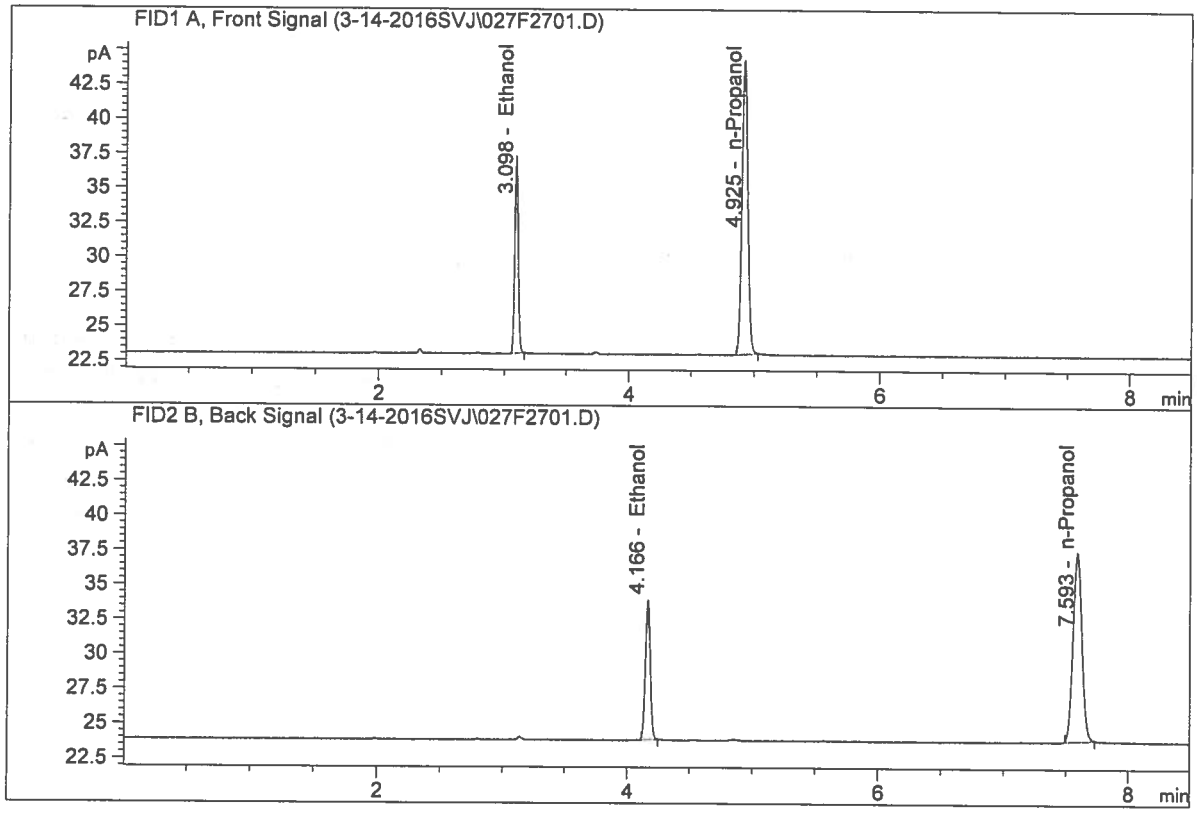


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	27.07676	0.2082	g/100cc
2.	Ethanol	Column 2:	26.94386	0.2078	g/100cc
3.	n-Propanol	Column 1:	68.20605	1.0000	g/100cc
4.	n-Propanol	Column 2:	67.64162	1.0000	g/100cc

MN

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-2-B
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	27.73248	0.2096	g/100cc
2.	Ethanol	Column 2:	27.54913	0.2092	g/100cc
3.	n-Propanol	Column 1:	69.39386	1.0000	g/100cc
4.	n-Propanol	Column 2:	68.67921	1.0000	g/100cc

AN

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-2 **Analysis Date(s): 14 Mar 2016**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.2082	0.2078	0.0004	0.2080	0.2087
(g/100cc)	0.2096	0.2092	0.0004	0.2094	

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
0.208	0.197	0.219	0.011

Reported Result

0.208

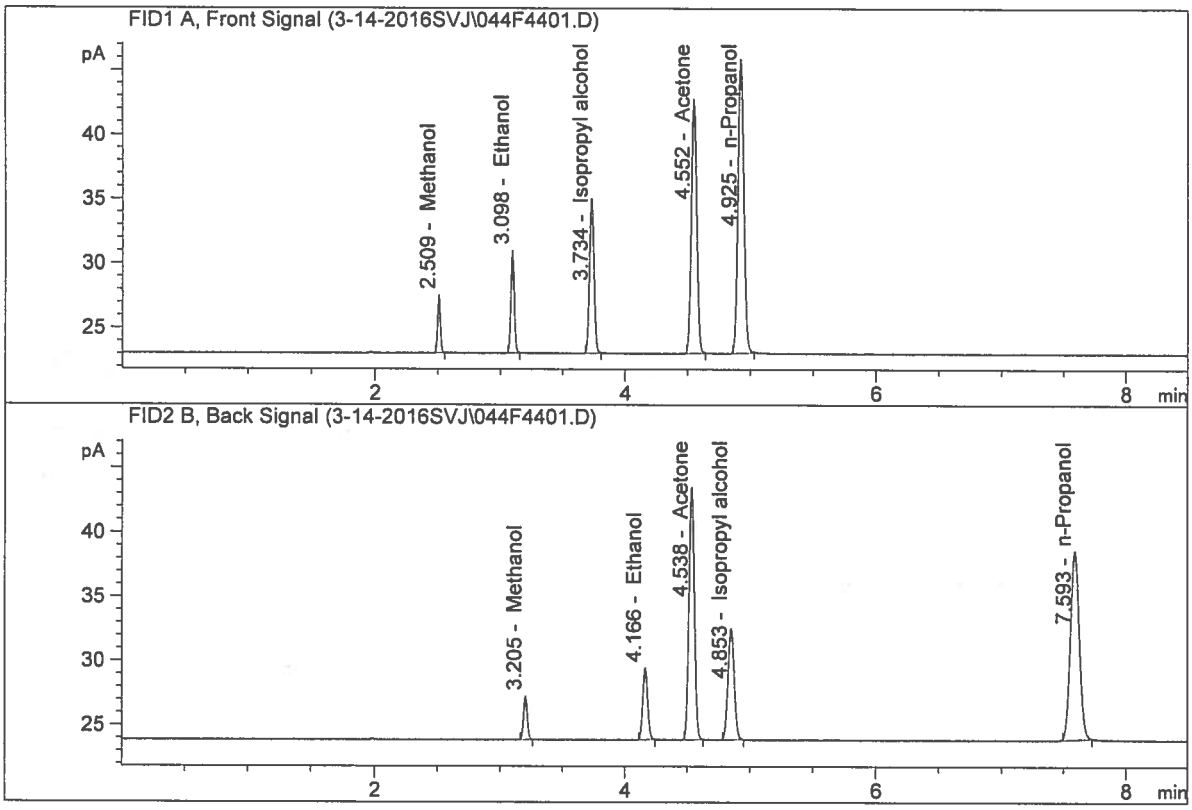
Calibration and control data are stored centrally.

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

NN

ISP Forensic Services Blood Alcohol Report

Sample Name : VOL MIX FN-06041502
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

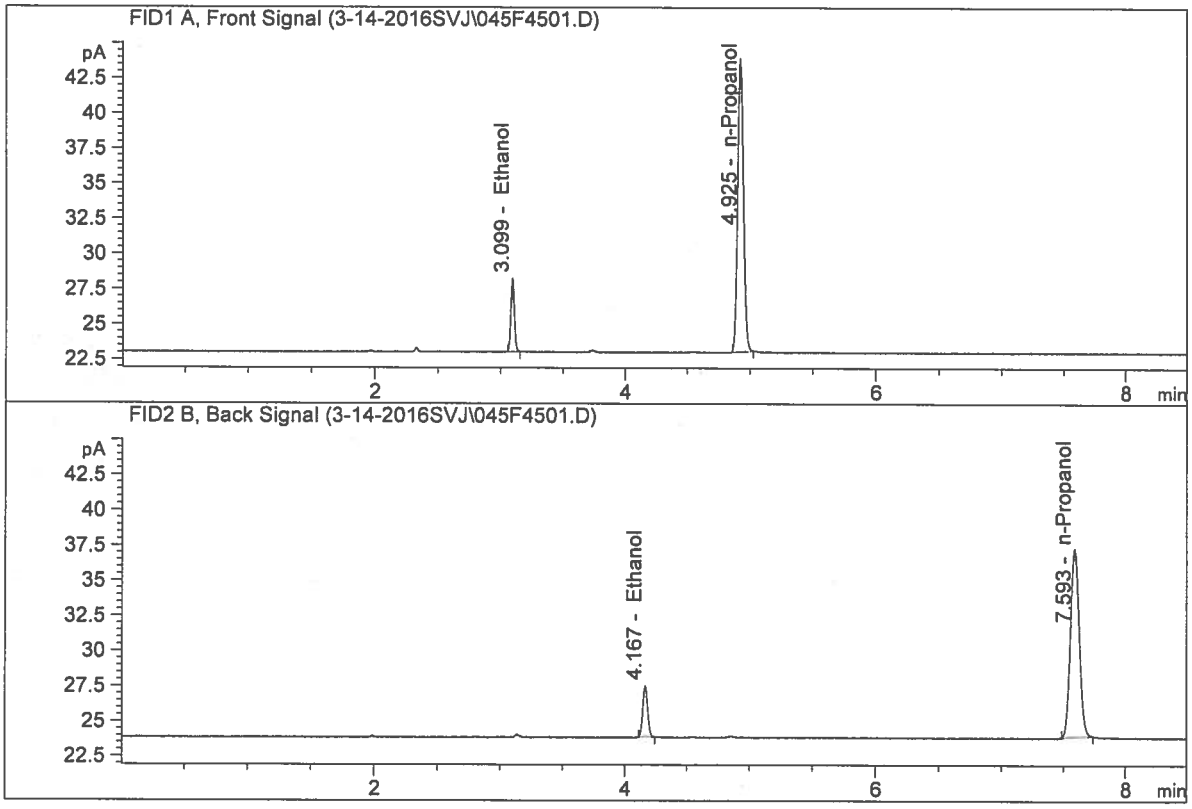


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	15.40621	0.1086	g/100cc
2.	Ethanol	Column 2:	15.26046	0.1079	g/100cc
3.	n-Propanol	Column 1:	74.44753	1.0000	g/100cc
4.	n-Propanol	Column 2:	73.75485	1.0000	g/100cc

AWN

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-A
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

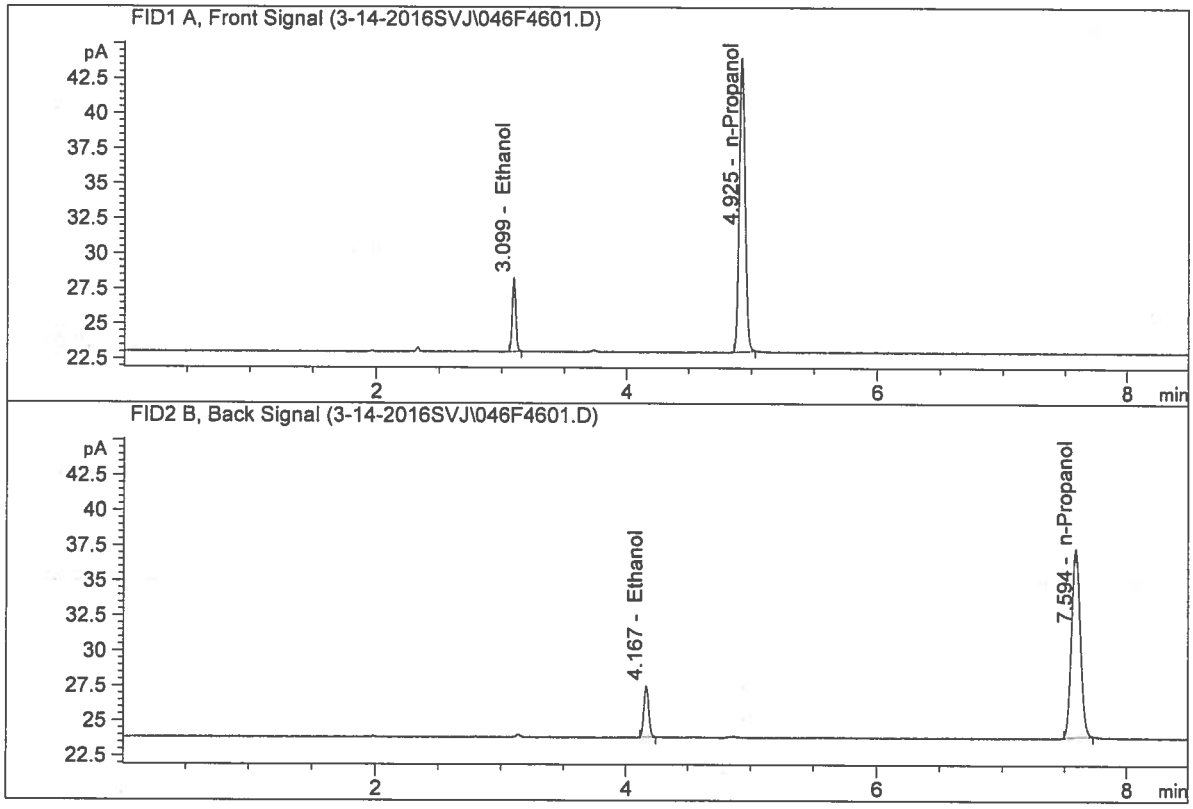


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.13672	0.0780	g/100cc
2.	Ethanol	Column 2:	10.08361	0.0776	g/100cc
3.	n-Propanol	Column 1:	68.18565	1.0000	g/100cc
4.	n-Propanol	Column 2:	67.77015	1.0000	g/100cc

MW

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-B
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.16571	0.0780	g/100cc
2.	Ethanol	Column 2:	10.05974	0.0774	g/100cc
3.	n-Propanol	Column 1:	68.39117	1.0000	g/100cc
4.	n-Propanol	Column 2:	67.75182	1.0000	g/100cc

MN

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1 **Analysis Date(s): 14 Mar 2016**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0780	0.0776	0.0004	0.0778	0.0777
(g/100cc)	0.0780	0.0774	0.0006	0.0777	

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
0.077	0.073	0.081	0.004

Reported Result
0.077

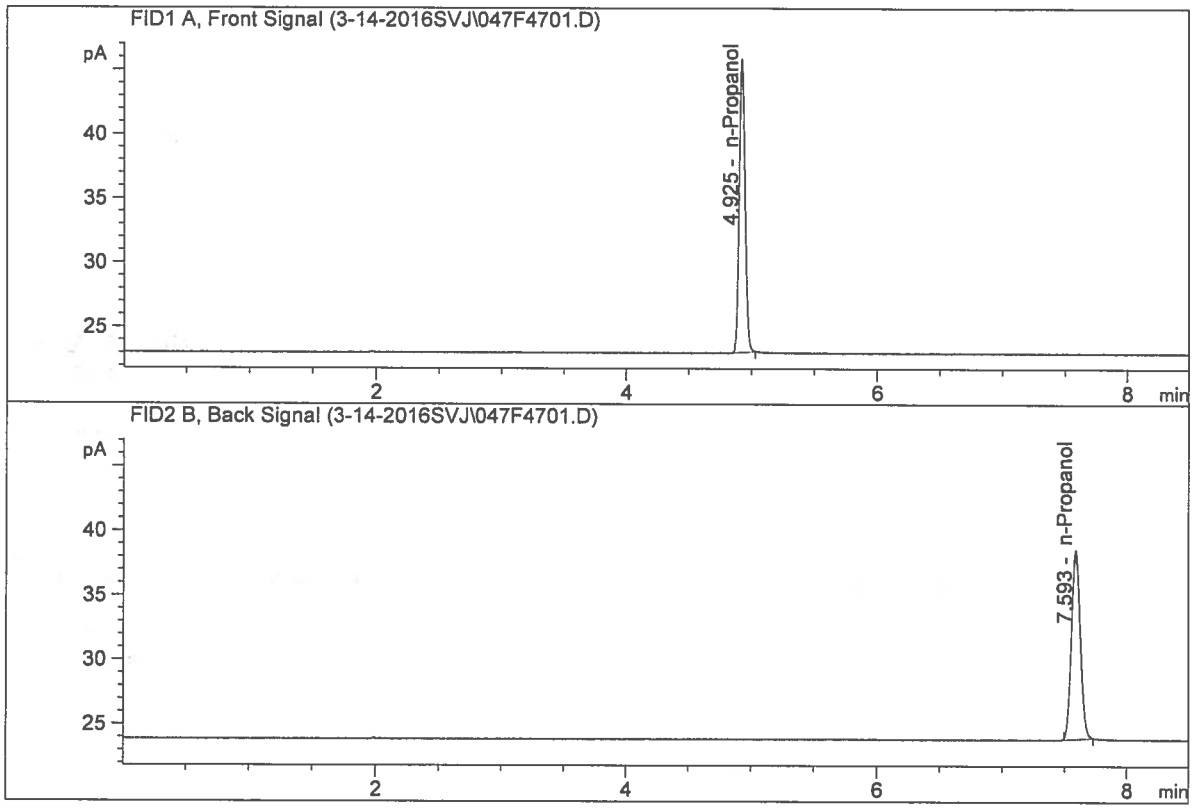
Calibration and control data are stored centrally.

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

AKN

ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

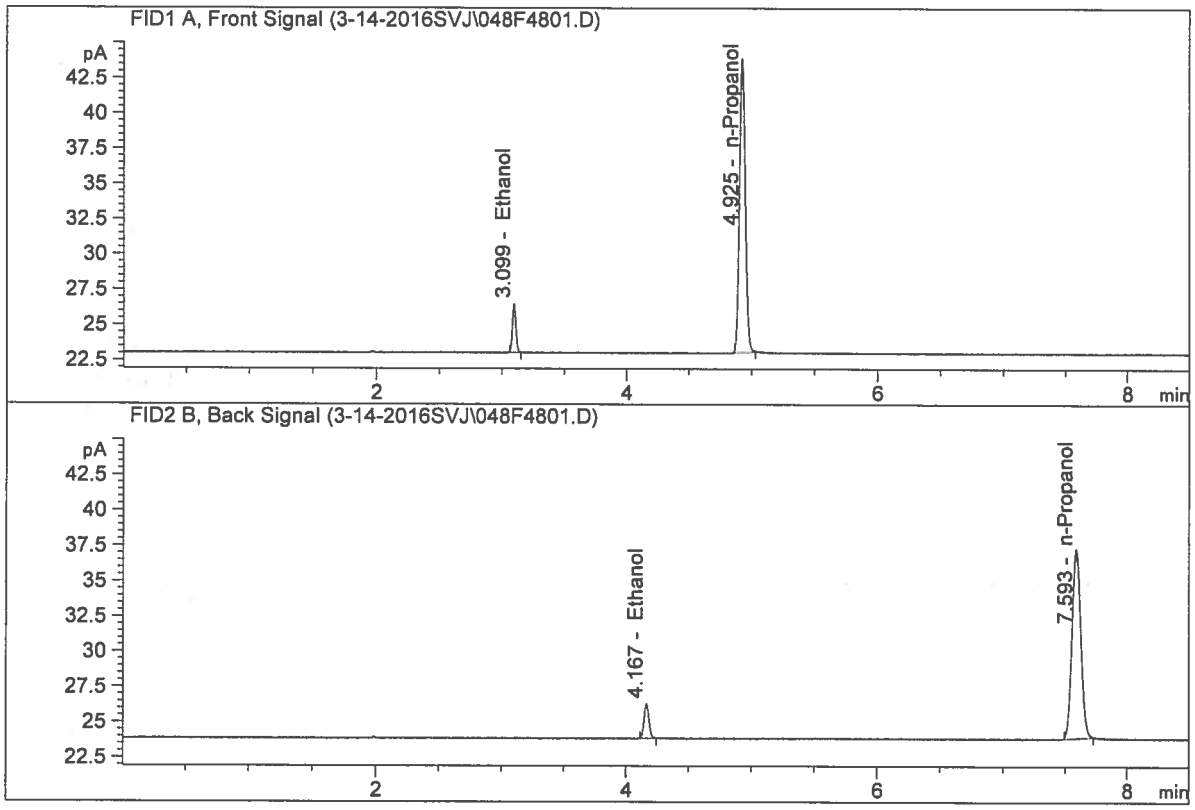


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	74.33672	1.0000	g/100cc
4.	n-Propanol	Column 2:	73.81025	1.0000	g/100cc

NN

ISP Forensic Services Blood Alcohol Report

Sample Name : 05
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

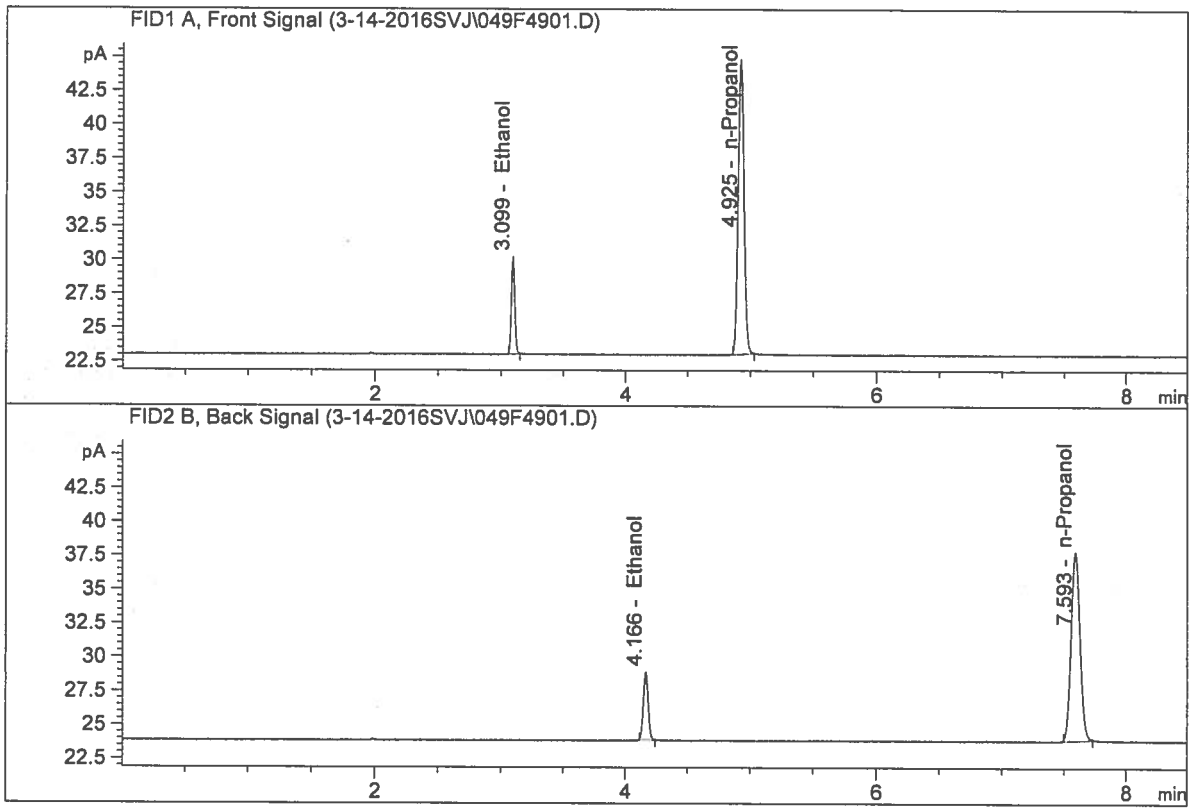


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.70799	0.0517	g/100cc
2.	Ethanol	Column 2:	6.66746	0.0515	g/100cc
3.	n-Propanol	Column 1:	68.09125	1.0000	g/100cc
4.	n-Propanol	Column 2:	67.55629	1.0000	g/100cc

AWN

ISP Forensic Services Blood Alcohol Report

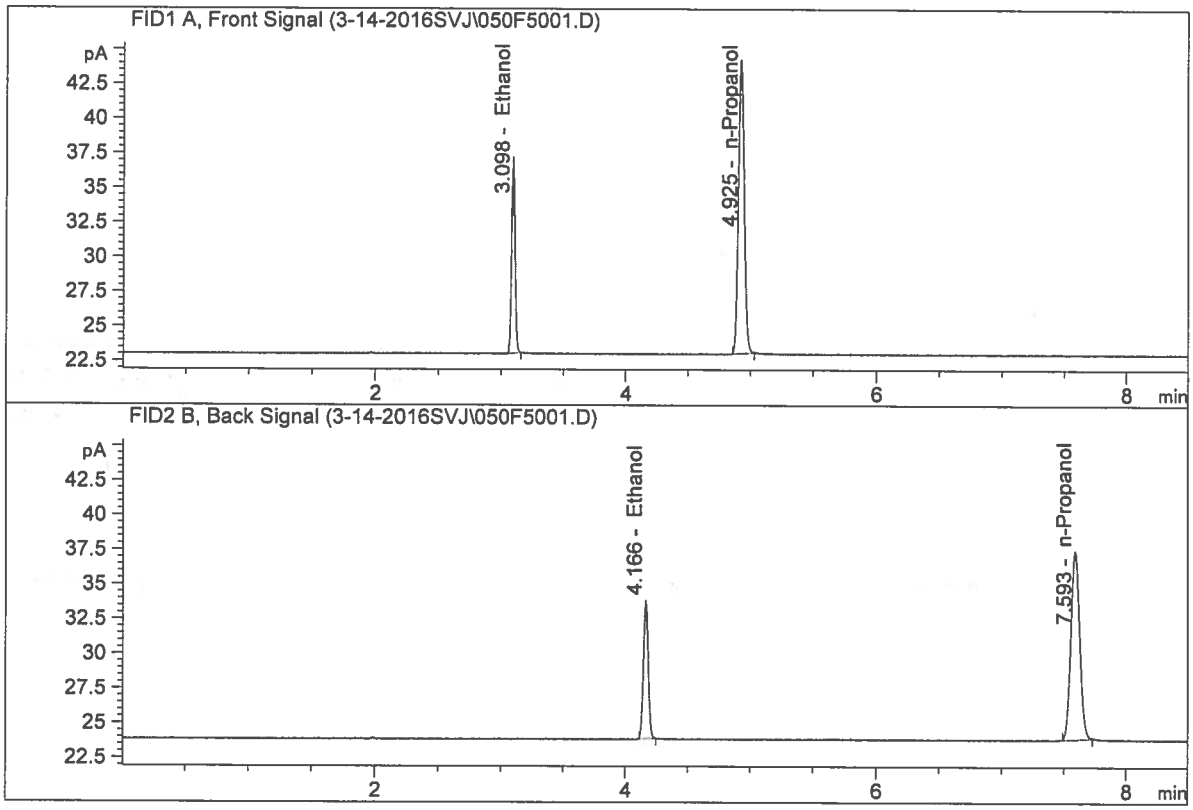
Sample Name : 100
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.92292	0.1028	g/100cc
2.	Ethanol	Column 2:	13.78860	0.1020	g/100cc
3.	n-Propanol	Column 1:	71.06437	1.0000	g/100cc
4.	n-Propanol	Column 2:	70.47440	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 200
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

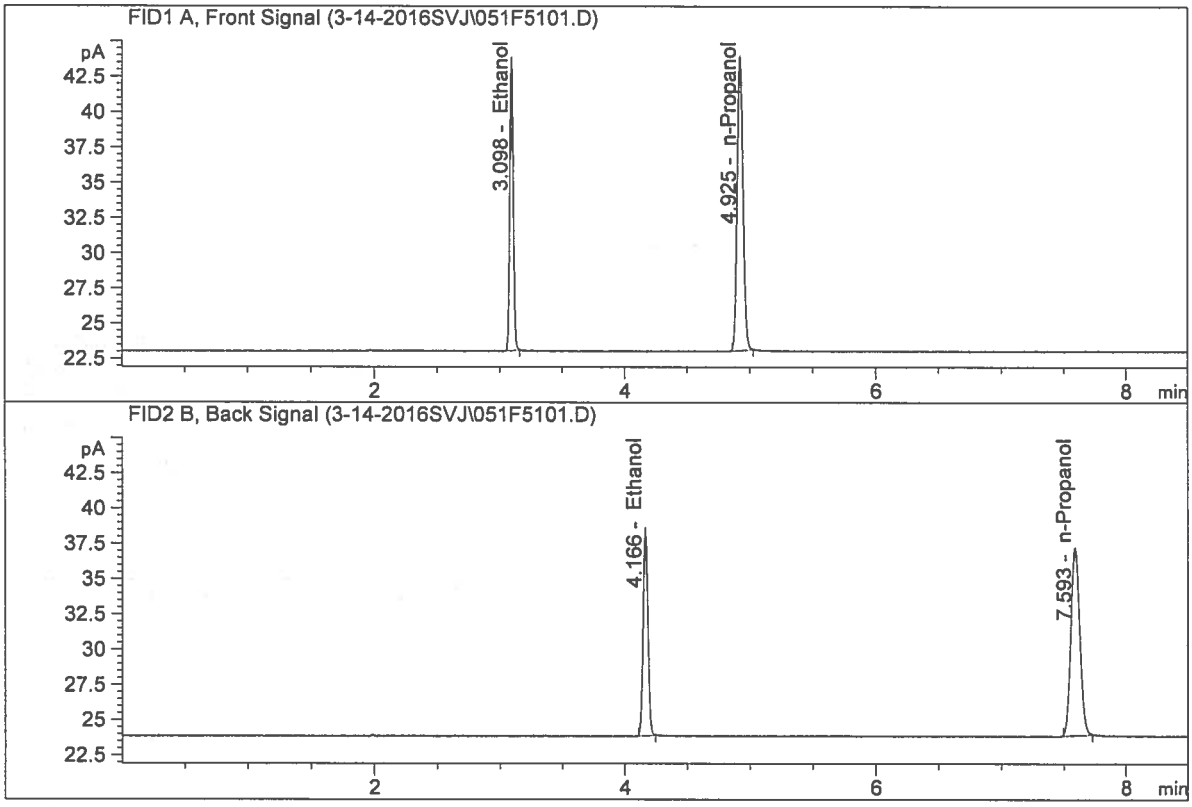


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	27.32517	0.2071	g/100cc
2.	Ethanol	Column 2:	27.16379	0.2068	g/100cc
3.	n-Propanol	Column 1:	69.22831	1.0000	g/100cc
4.	n-Propanol	Column 2:	68.51540	1.0000	g/100cc

MN

ISP Forensic Services Blood Alcohol Report

Sample Name : 300
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

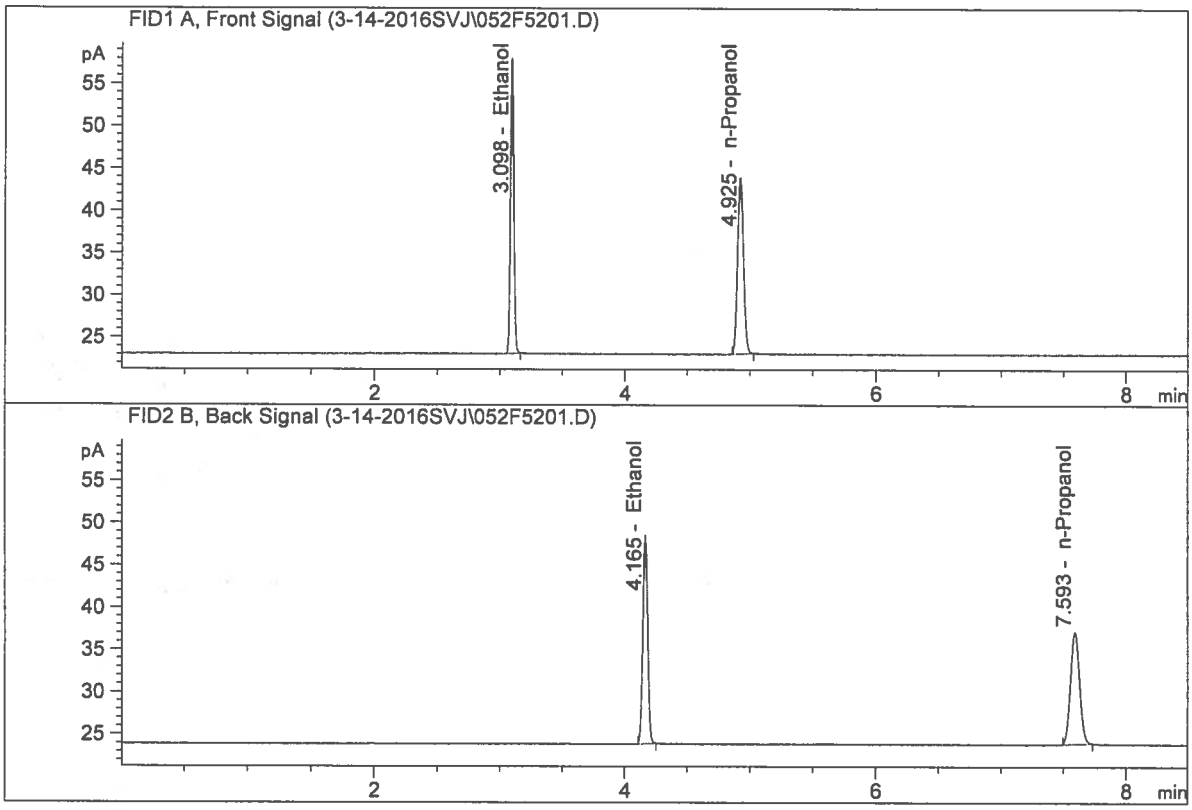


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	40.21070	0.3102	g/100cc
2.	Ethanol	Column 2:	39.96638	0.3101	g/100cc
3.	n-Propanol	Column 1:	67.99845	1.0000	g/100cc
4.	n-Propanol	Column 2:	67.22557	1.0000	g/100cc

NN

ISP Forensic Services Blood Alcohol Report

Sample Name : 500
Laboratory : Coeur d' Alene
Injection Date : Mar 14, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	67.28632	0.5195	g/100cc
2.	Ethanol	Column 2:	67.03194	0.5215	g/100cc
3.	n-Propanol	Column 1:	67.94170	1.0000	g/100cc
4.	n-Propanol	Column 2:	67.04731	1.0000	g/100cc

MNV