



Idaho State Police Forensic Services

CERTIFICATE OF ANALYSIS/APPROVAL

The Idaho State Police Forensic Services (ISPFS) hereby certifies and approves Alcohol Simulator Solution **Lot Number 15106** (a product manufactured by RepCo Marketing, Inc.) to be used to conduct performance verification checks within the State of Idaho in accordance with the analytical methods, policies and/or procedures promulgated by the Department governing breath alcohol examinations. ISPFS also approves of the manufacturer of this solution (RepCo Marketing, Inc.) to provide Alcohol Simulator Solution **Lot Number 15106** in the State of Idaho. This lot has a target value of 0.200 with a range of 0.180 to 0.220 grams of ethyl alcohol/210 liters of vapor.

The expiration date for this lot number is on July 13th, 2017 at 11:59 PM.

8-13-2015

Date

Volatiles Analysis Discipline Leader

STATE OF IDAHO)
) ss.
County of Kootenai)

On this 13th day of August, in the year 2015, before me, Lindsay Stores, a notary public, Jeremy Johnston personally appeared, known to me to be the person whose name is subscribed to the within instrument as a Forensic Scientist for the Idaho State Police Forensic Services, and acknowledged to me that he executed the same as such Scientist.

Notary Public

My Commission Expires: 1-22-2019



CERTIFICATE OF ANALYSIS

MANUFACTURER AND SUPPLIER: RepCo Marketing, Inc.
LOT NUMBER: 15106
EXPIRATION DATE: July 13, 2017 at 11:59 p.m.

RepCo Marketing, Inc. certifies the following:

RepCo Marketing, Inc. manufactured, tested and supplied Lot Number 15106 of Alcohol Certified Solution for simulators. Random samples of said lot number were analyzed by an independent laboratory utilizing a gas chromatograph and found to contain .2428 gms/dl +/-0.003 gms/dl wt/vol ethanol (95% Confidence).

The alcohol and distilled water used in the solution were found to be free of any interfering substance.

This solution will produce a vapor alcohol value of .200 +/-3% gms/210L Breath when heated to 34 Degrees Celsius +/-0.2 Degrees Celsius in a simulator (95% Confidence).

The date of manufacture for this lot number is July 14, 2015
The expiration date for this lot number is July 13, 2017 at 11:59 p.m.

This document is a true representation of the original Certificate of Analysis.



Cecil B. Garner, President
RepCo Marketing, Inc.

0.0194 - 0.206

Raw data from analysis: LOT #15106

Analyst:	Bottle #350	sample #1	a	0.2461	overall mean:
JJ			b	0.2457	0.2462
		sample #2	a	0.2445	
			b	0.2438	
JJ	bottle #210	sample #3	a	0.2478	
			b	0.2478	
		Sample #4	a	0.2467	
			b	0.2469	
Analyst:	Bottle #381	sample #1	a	0.2462	overall mean:
NB			b	0.2425	0.2442
		sample #2	a	0.2459	
			b	0.2423	
NB	bottle #1125	sample #3	a	0.2465	
			b	0.2417	
		Sample #4	a	0.2461	
			b	0.2423	

average of all raw data: **0.245175**

alcohol content conversion with 1.23: **0.19933**
 with 1.21: 0.20262

Target value from provider:
 0.2428 +/- 3% range 0.25008
 0.23552
 0.2 +/- 3% range 0.206
 0.194

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: RepCo 0.2 lot15106 #381

Analysis Date(s): 06 Aug 2015

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2462	0.2425	0.0037	0.2443	0.2442	÷ 1.23 = 0.1985
(g/100cc)	0.2459	0.2423	0.0036	0.2441		

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: MD96BC1382/MD94AM10010

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.244	0.231	0.257	0.013

	Reported Result	
	0.244	vapor : 0.198

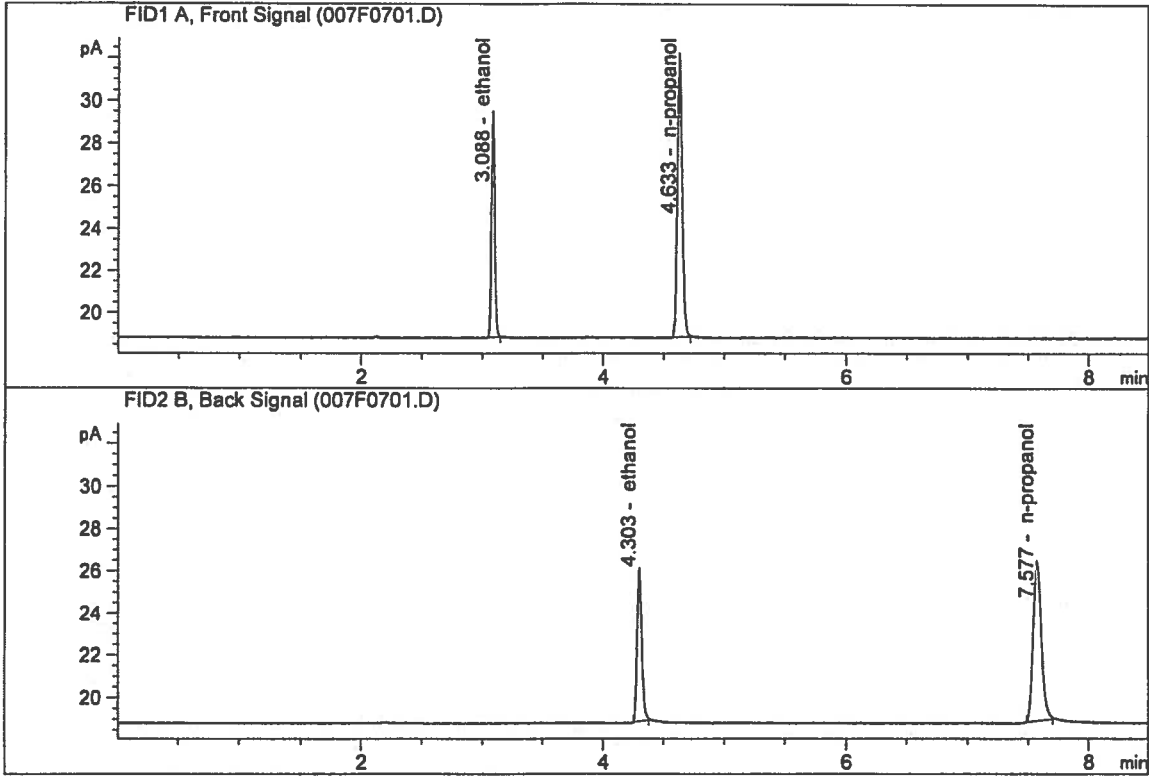
Calibration and control data are stored centrally.

Analyst: NB

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ISP Forensic Services Blood Alcohol Report

Sample Name : RepCo 0.2 lot15106 #381-A
 Laboratory : Meridian
 Injection Date : Aug 6, 2015
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

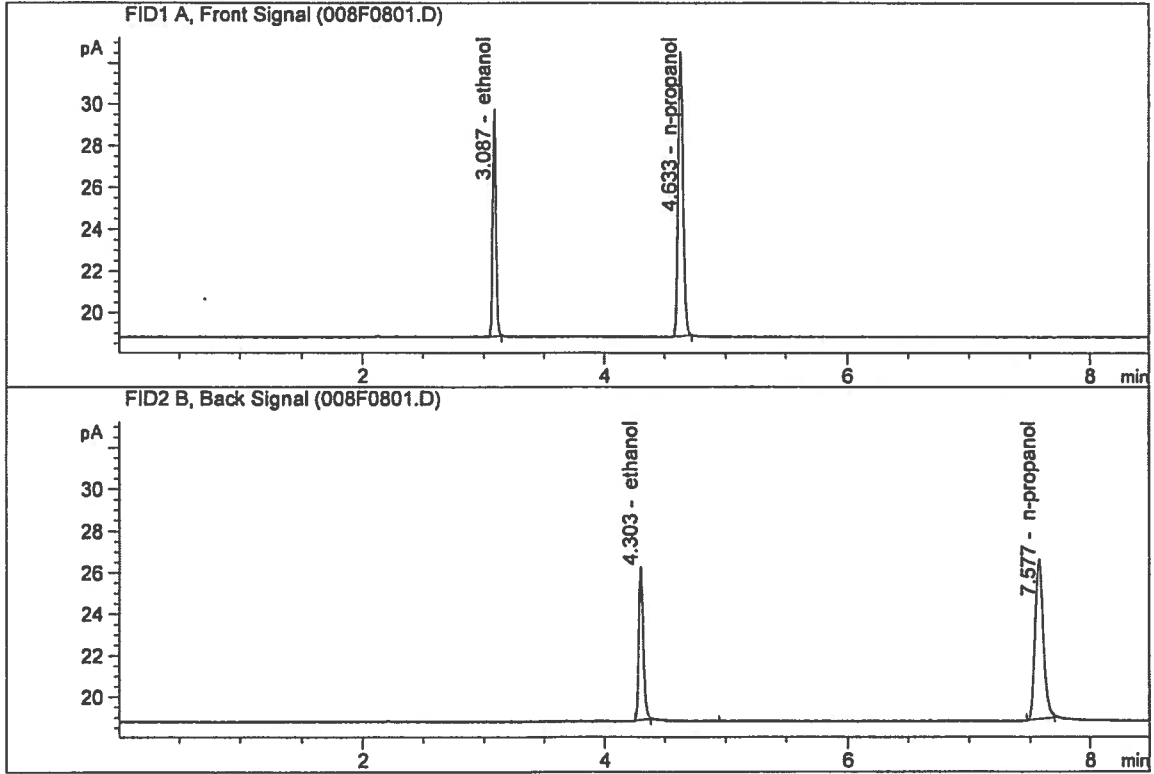


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.62382	0.2462	g/100cc
2.	Ethanol	Column 2:	19.64445	0.2425	g/100cc
3.	n-Propanol	Column 1:	38.49761	1.0000	g/100cc
4.	n-Propanol	Column 2:	37.14534	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : RepCo 0.2 lot15106 #381-B
 Laboratory : Meridian
 Injection Date : Aug 6, 2015
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.98070	0.2459	g/100cc
2.	Ethanol	Column 2:	20.10826	0.2423	g/100cc
3.	n-Propanol	Column 1:	39.25305	1.0000	g/100cc
4.	n-Propanol	Column 2:	38.04271	1.0000	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: RepCo 0.2 lot15106 #1125 Analysis Date(s): 06 Aug 2015

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2465	0.2417	0.0048	0.2441	0.2441	÷ 1.23 = 0.1985
(g/100cc)	0.2461	0.2423	0.0038	0.2442		

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: MD96BC1382/MD94AM10010

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.244	0.231	0.257	0.013

	Reported Result <hr style="border-top: 1px dashed black;"/> 0.244	vapor : 0.198
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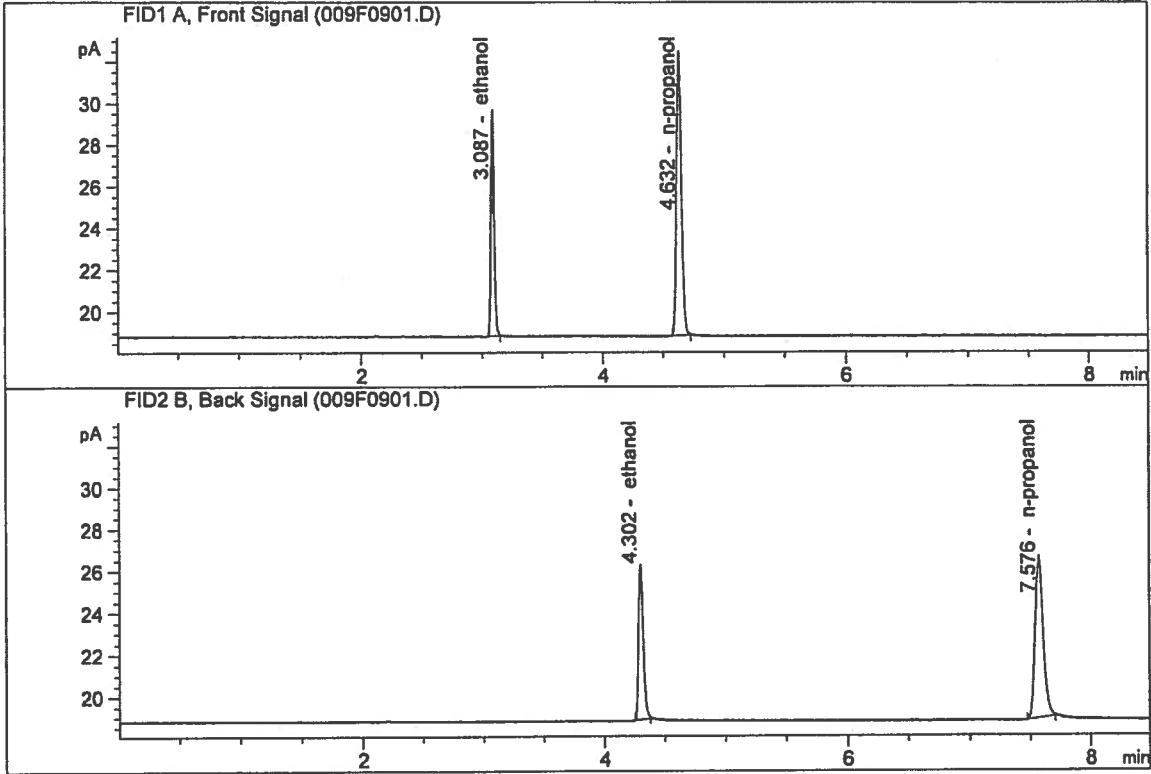
Calibration and control data are stored centrally.

Analyst: NB

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ISP Forensic Services Blood Alcohol Report

Sample Name : RepCo 0.2 lot15106 #1125-A
 Laboratory : Meridian
 Injection Date : Aug 6, 2015
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

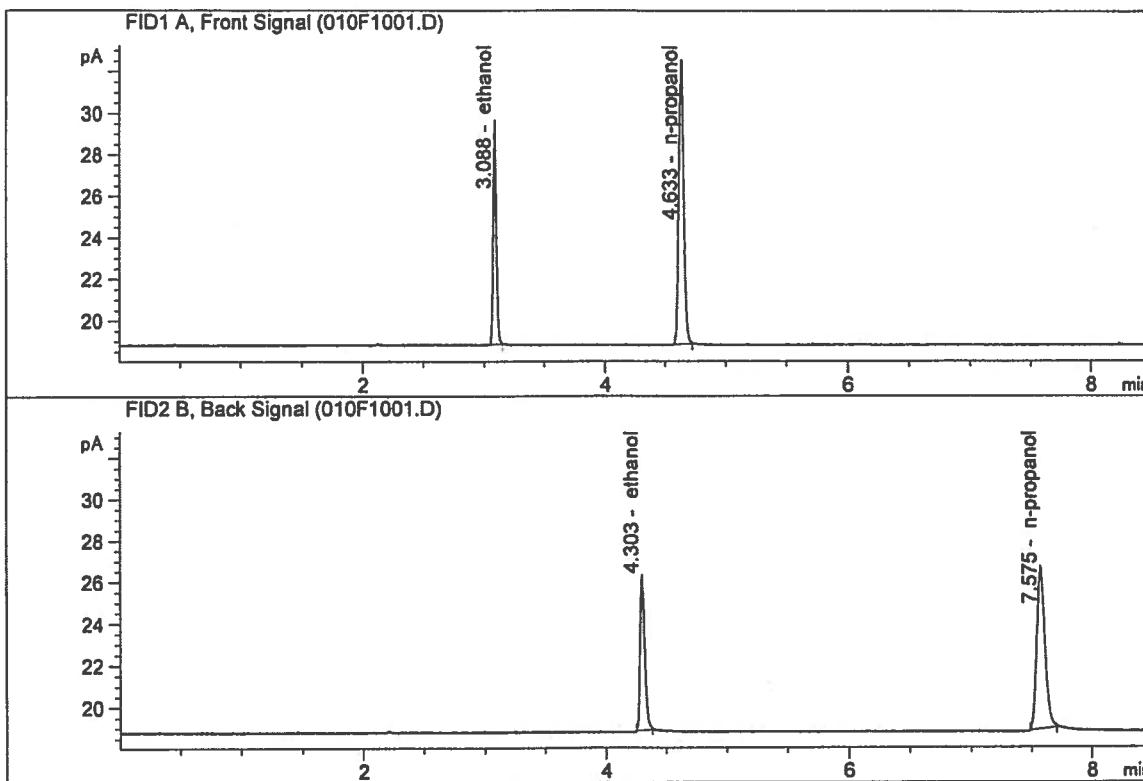


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.98087	0.2465	g/100cc
2.	Ethanol	Column 2:	19.98094	0.2417	g/100cc
3.	n-Propanol	Column 1:	39.15218	1.0000	g/100cc
4.	n-Propanol	Column 2:	37.90960	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : RepCo 0.2 lot15106 #1125-B
 Laboratory : Meridian
 Injection Date : Aug 6, 2015
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	20.04382	0.2461	g/100cc
2.	Ethanol	Column 2:	20.11635	0.2423	g/100cc
3.	n-Propanol	Column 1:	39.35109	1.0000	g/100cc
4.	n-Propanol	Column 2:	38.06668	1.0000	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 15106-350-1

Analysis Date(s): 13 Aug 2015

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2461	0.2457	0.0004	0.2459	0.2450	
(g/100cc)	0.2445	0.2438	0.0007	0.2441		

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
0.245	0.232	0.258	0.013

	Reported Result	
	0.245	

Calibration and control data are stored centrally.

Issued: 01/16/2014

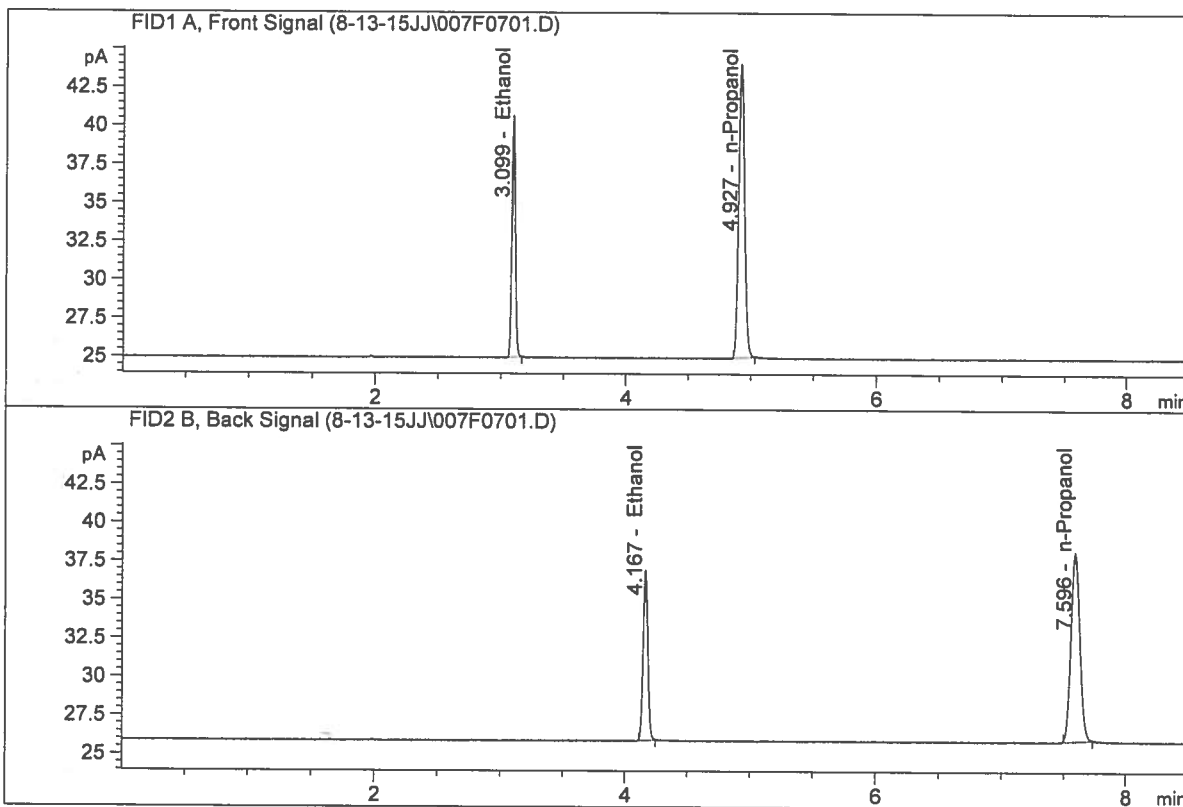
Volatiles BAC Calculation Spreadsheet Rev 3

Issuing Authority: Quality Manager

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ISP Forensic Services Blood Alcohol Report

Sample Name : 15106-350-1-A
 Laboratory : Coeur d' Alene
 Injection Date : Aug 13, 2015
 Method : ALCOHOL.M
 Acq. Instrument: CN10742044-IT00725005

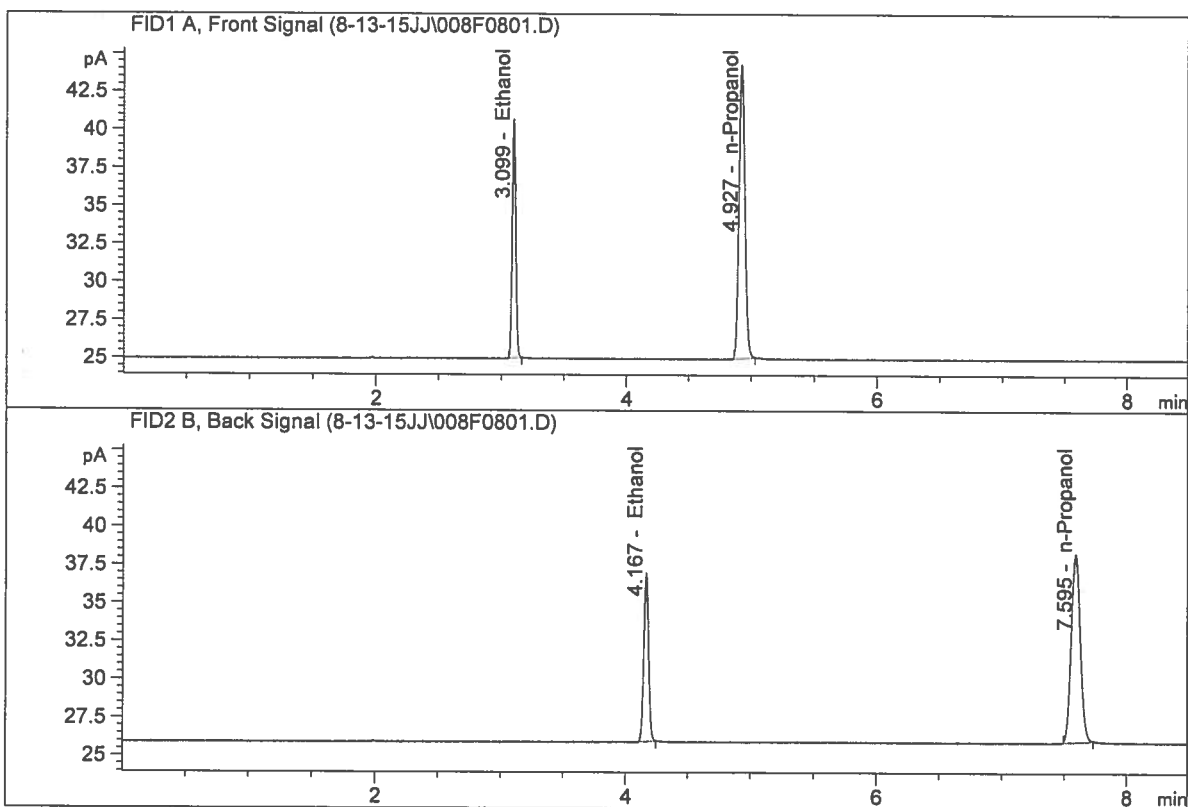


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	30.23490	0.2461	g/100cc
2.	Ethanol	Column 2:	30.03458	0.2457	g/100cc
3.	n-Propanol	Column 1:	62.33025	1.0000	g/100cc
4.	n-Propanol	Column 2:	61.63363	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : 15106-350-1-B
 Laboratory : Coeur d' Alene
 Injection Date : Aug 13, 2015
 Method : ALCOHOL.M
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	30.33755	0.2445	g/100cc
2.	Ethanol	Column 2:	30.07716	0.2438	g/100cc
3.	n-Propanol	Column 1:	62.95470	1.0000	g/100cc
4.	n-Propanol	Column 2:	62.18402	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 15106-1053-1

Analysis Date(s): 13 Aug 2015

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2478	0.2478	0.0000	0.2478	0.2473	
(g/100cc)	0.2467	0.2469	0.0002	0.2468		

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
0.247	0.234	0.260	0.013

	Reported Result	
	0.247	

Calibration and control data are stored centrally.

Issued: 01/16/2014

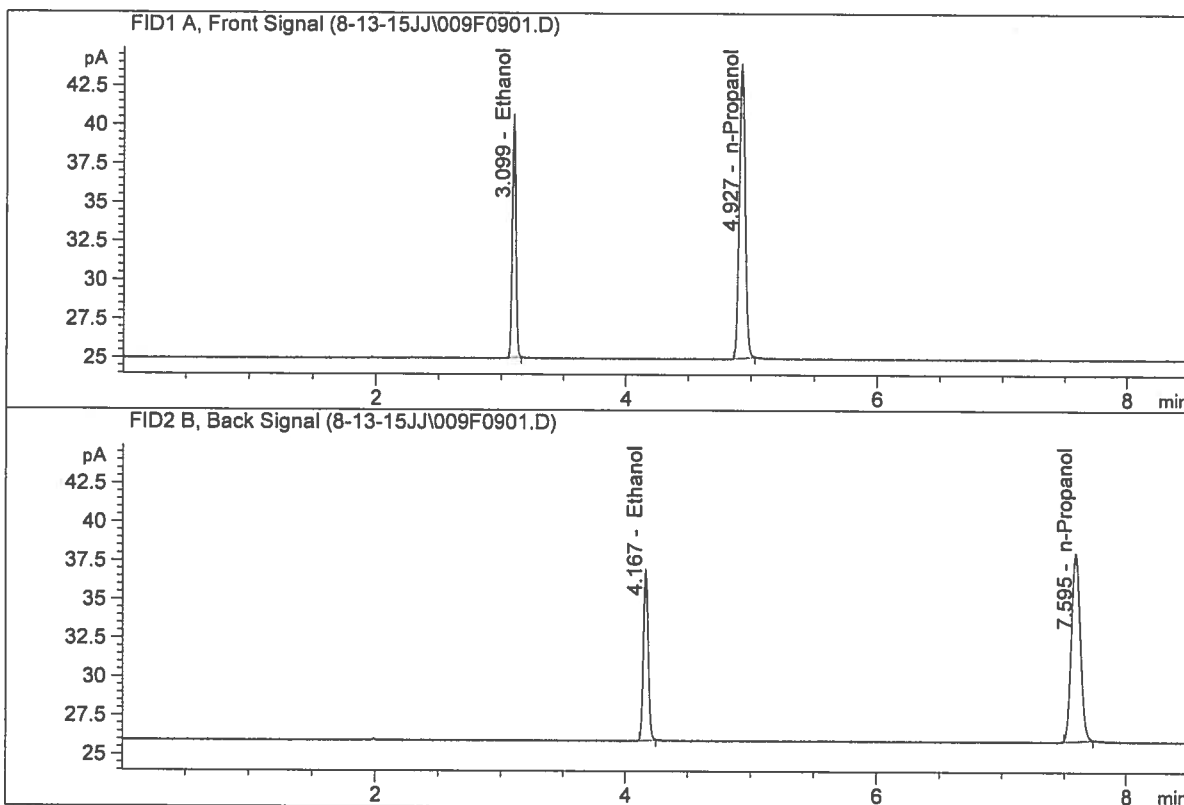
Volatiles BAC Calculation Spreadsheet Rev 3

Issuing Authority: Quality Manager

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ISP Forensic Services Blood Alcohol Report

Sample Name : 15106-1053-1-A
 Laboratory : Coeur d' Alene
 Injection Date : Aug 13, 2015
 Method : ALCOHOL.M
 Acq. Instrument: CN10742044-IT00725005

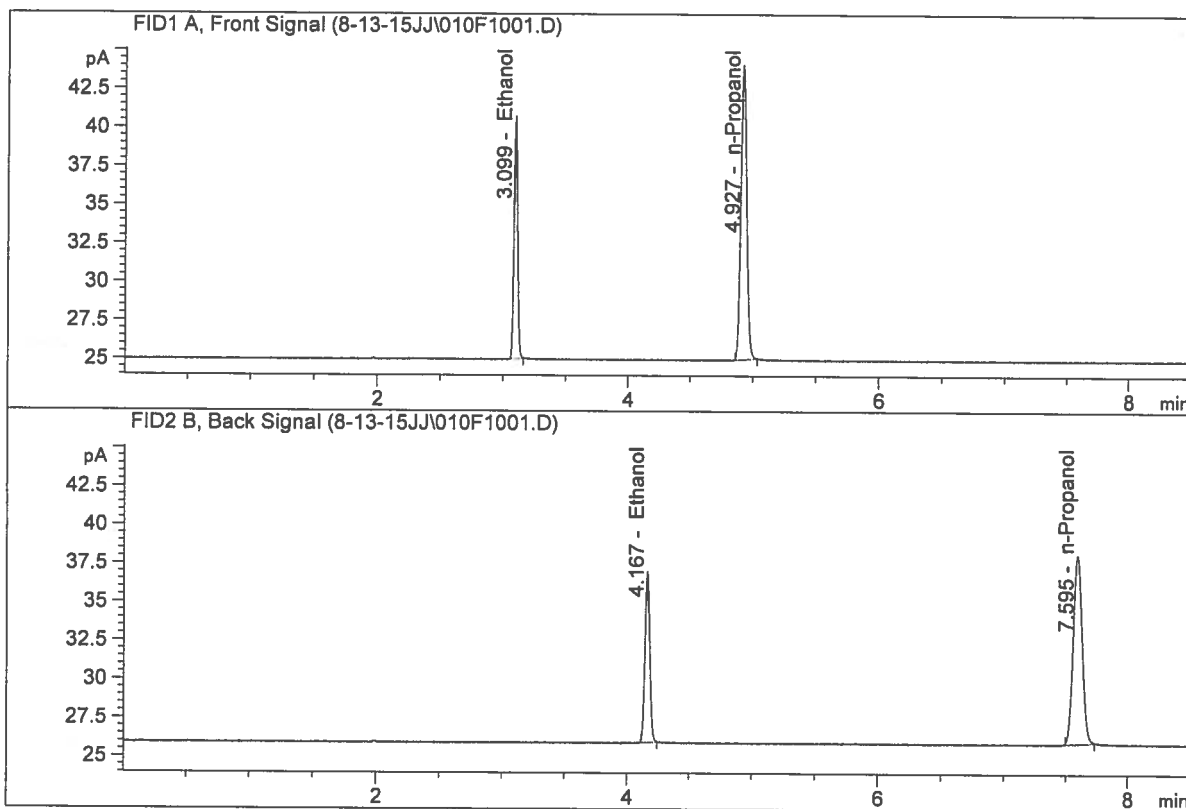


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	30.23899	0.2478	g/100cc
2.	Ethanol	Column 2:	30.05882	0.2478	g/100cc
3.	n-Propanol	Column 1:	61.91204	1.0000	g/100cc
4.	n-Propanol	Column 2:	61.15727	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : 15106-1053-1-B
 Laboratory : Coeur d' Alene
 Injection Date : Aug 13, 2015
 Method : ALCOHOL.M
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	30.36980	0.2467	g/100cc
2.	Ethanol	Column 2:	30.14780	0.2469	g/100cc
3.	n-Propanol	Column 1:	62.47245	1.0000	g/100cc
4.	n-Propanol	Column 2:	61.55757	1.0000	g/100cc

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