Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number: ML600HC11378

Volatiles Quality Assurance Controls **Run Date(s): 11/6/20-11/7/20**

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-23	1907006	0.0764	0.0688-0.0840	0.0736 g/100cc
					0.0748 g/100cc
					g/100cc
Level 2	Mar-22	1803028	0.2035	0.1832-0.2238	0.2009 g/100cc
					0.2037 g/100cc
					g/100cc
Multi-Component mixture:			**Lot #**	FN07101701	acceptable
Curve Fit:		**Column 1**	0.99999	**Column2**	0.99991

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0510	0.0527	0.0017	0.0518
100	0.100	0.090 - 0.110	0.1001	0.0999	0.0002	0.1000
200	0.200	0.180 - 0.220	0.1989	0.1975	0.0014	0.1982
300	0.300	0.270 - 0.330	0.2992	0.2978	0.0014	0.2985
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5008	0.5021	0.0013	0.5014

Aqueous Controls

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

APPROVED
By John Garner at 10:30 am, Nov 09, 2020

NB

11/6/2020

Worklist: 4599

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2020-4362	1	BCK	Alcohol Analysis
M2020-4367	1	BCK	Alcohol Analysis
M2020-4372	1	BCK	Alcohol Analysis
M2020-4400	1	BCK	Alcohol Analysis
M2020-4411	1	BCK	Alcohol Analysis
M2020-4436	1	BCK	Alcohol Analysis
M2020-4461	1	BCK	Alcohol Analysis
M2020-4465	1	BCK	Alcohol Analysis
M2020-4466	1	BCK	Alcohol Analysis
M2020-4497	1	BCK	Alcohol Analysis
M2020-4501	1	BCK	Alcohol Analysis
M2020-4512	1	BCK	Alcohol Analysis
M2020-4513	1	BCK	Alcohol Analysis
M2020-4514	1	BCK	Alcohol Analysis
M2020-4515	1	BCK	Alcohol Analysis
M2020-4516	1	BCK	Alcohol Analysis
M2020-4542	1	BCK	Alcohol Analysis
M2020-4543	1	BCK	Alcohol Analysis
M2020-4547	1	BCK	Alcohol Analysis
M2020-4548	1	BCK	Alcohol Analysis
M2020-4549	1	BCK	Alcohol Analysis

Worklist: 4599

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2020-4550	1	BCK	Alcohol Analysis
P2020-3243	2	BCK	Alcohol Analysis

NB

Calibration Table

General Calibration Setting

Calib. Data Modified : Friday, November 06, 2020 12:08:12 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 : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
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

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

RT	Sig	Lvl	Amount [g/100cc]	Area	Rsp.Factor	Ref	ISTD	#	Compound
2.586	1	1	1.00000	3.69669	2.70512e-1	No	No	1	methanol
2.809	1	1	1.00000	4.26100	2.34687e-1	No	No	2	Acetaldehyde
2.977	2	1	1.00000	4.26100	2.34687e-1	No	No	2	Acetaldehyde
3.075	1	1	5.00000e-2	4.49381	1.11264e-2	No	No	1	ethanol
		2	1.00000e-1	8.93291	1.11946e-2				
		3	2.00000e-1	17.78029	1.12484e-2				
		4	3.00000e-1	26.94336	1.11345e-2				
		5	5.00000e-1	44.95221	1.11229e-2				
3.388	2	1	1.00000	4.26062	2.34707e-1	No	No	2	methanol
3.628	1	1	1.00000	9.73055	1.02769e-1	No	No	1	isopropyl alcohol
4.285	2	1	5.00000e-2	4.60429	1.08594e-2	No	No	2	ethanol
		2	1.00000e-1	9.11517	1.09707e-2				
		3	2.00000e-1	18.34945	1.08995e-2				
		4	3.00000e-1	28.10586	1.06739e-2				
		5	5.00000e-1	47.23547	1.05853e-2				
4.308	1	1	1.00000	6.49940	1.53860e-1	No	No	1	acetone
4.620	1	1	1.00000	46.99450	2.12791e-2	No	Yes	1	n-propanol
		2	1.00000	46.60860	2.14553e-2				
		3	1.00000	46.19387	2.16479e-2				
		4	1.00000	46.35681	2.15718e-2				
		5	1.00000	46.07421	2.17041e-2				
4.661	2	1	1.00000	6.89301	1.45075e-1	No	No	2	acetone
4.969	2	1	1.00000	10.70642	9.34019e-2	No	No	2	isopropyl alcohol
7.550	2	1	1.00000	48.71027	2.05295e-2	No	Yes	2	n-propanol
		2	1.00000	47.93089	2.08634e-2				
		3	1.00000	47.28535	2.11482e-2				
		4	1.00000	47.53572	2.10368e-2				
		5	1.00000	46.98842	2.12818e-2				

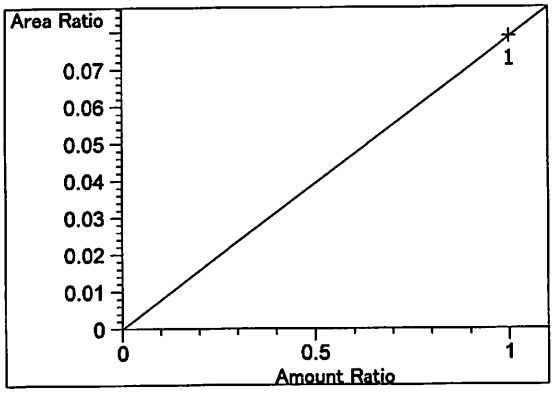
Peak Sum Table

No Entries in table

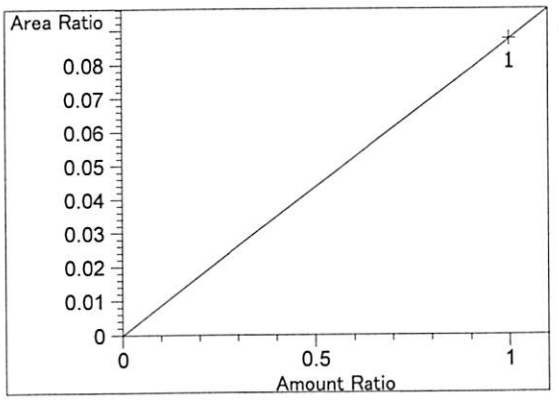
1 Warnings or Errors :

Warning : Curve requires more calibration points., (methanol)

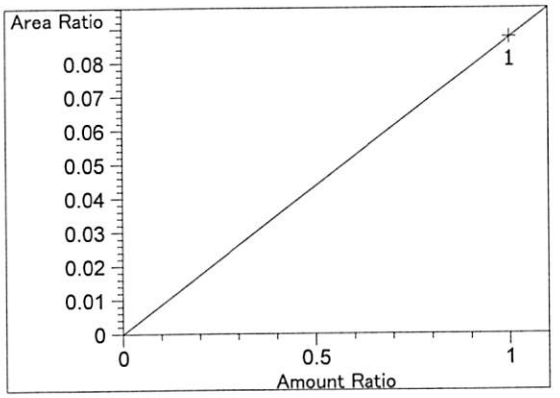
Calibration Curves



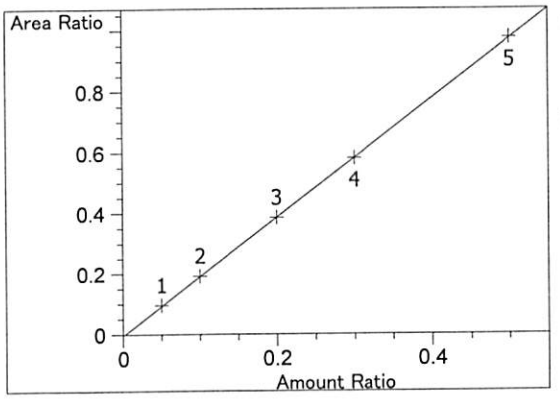
methanol at exp. RT: 2.586
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 7.86623e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



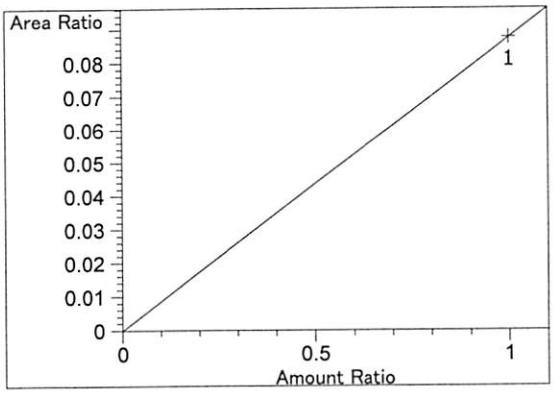
Acetaldehyde at exp. RT: 2.809
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.74764e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



Acetaldehyde at exp. RT: 2.977
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.74764e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio

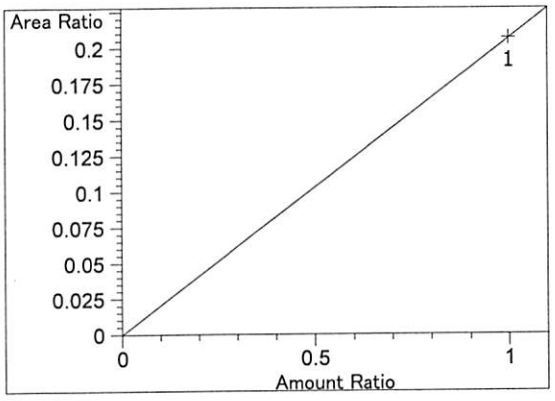


ethanol at exp. RT: 3.075
FID1 A, Front Signal
Correlation: 0.99999
Residual Std. Dev.: 0.00214
Formula: y = mx + b
m: 1.95652
b: -4.18994e-3
x: Amount Ratio
y: Area Ratio

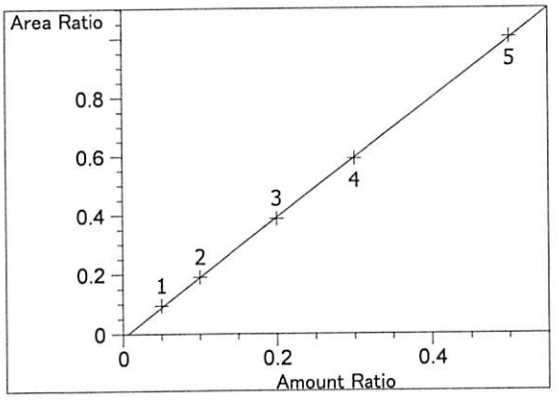


methanol at exp. RT: 3.388
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.74687e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio

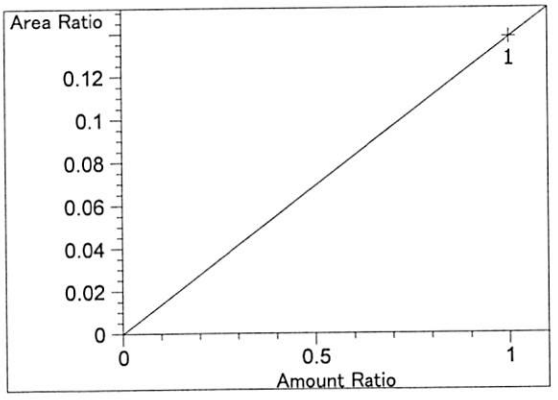
NB



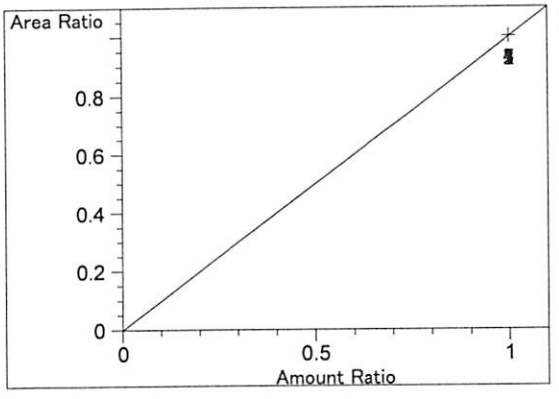
isopropyl alcohol at exp. RT: 3.628
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 2.07057e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



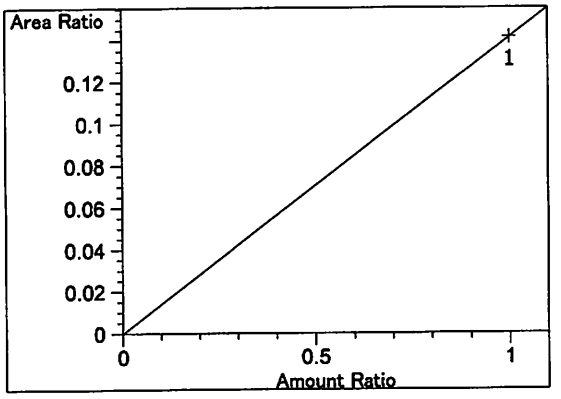
ethanol at exp. RT: 4.285
FID2 B, Back Signal
Correlation: 0.99991
Residual Std. Dev.: 0.00555
Formula: y = mx + b
m: 2.02679
b: -1.23075e-2
x: Amount Ratio
y: Area Ratio



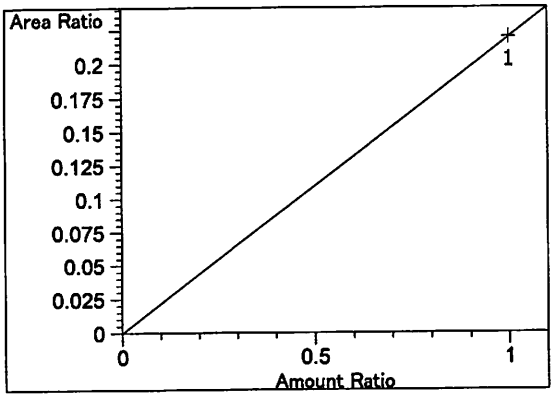
acetone at exp. RT: 4.308
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.38301e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



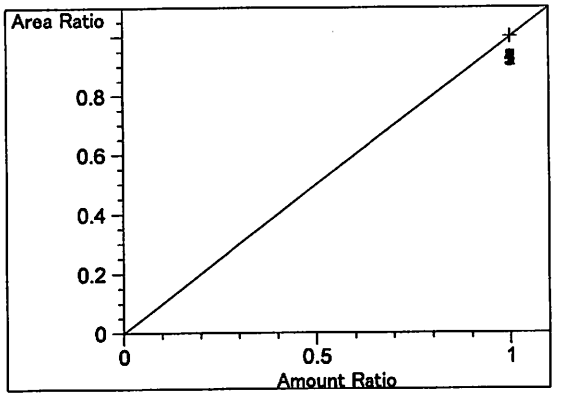
n-propanol at exp. RT: 4.620
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio



acetone at exp. RT: 4.661
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.41510e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



isopropyl alcohol at exp. RT: 4.969
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 2.19798e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



n-propanol at exp. RT: 7.550
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio

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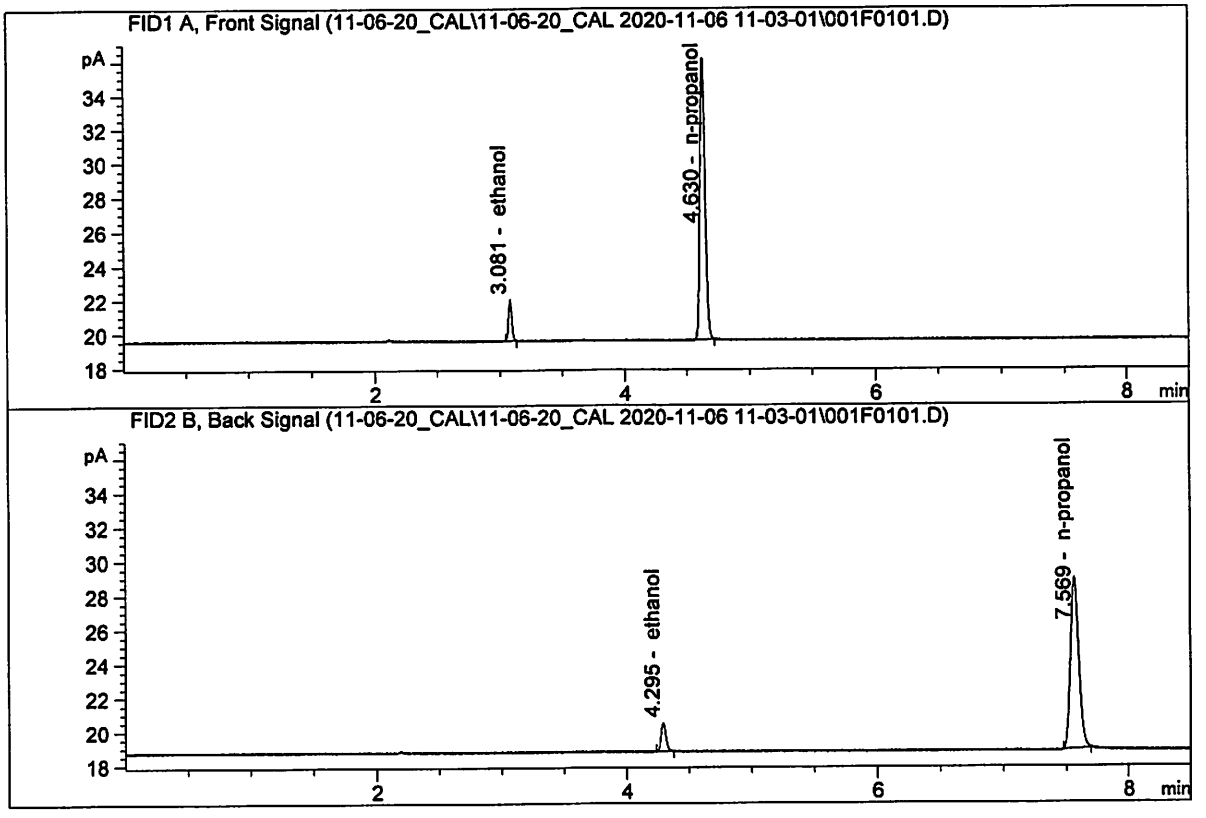
NB

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.050 FN05211804
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

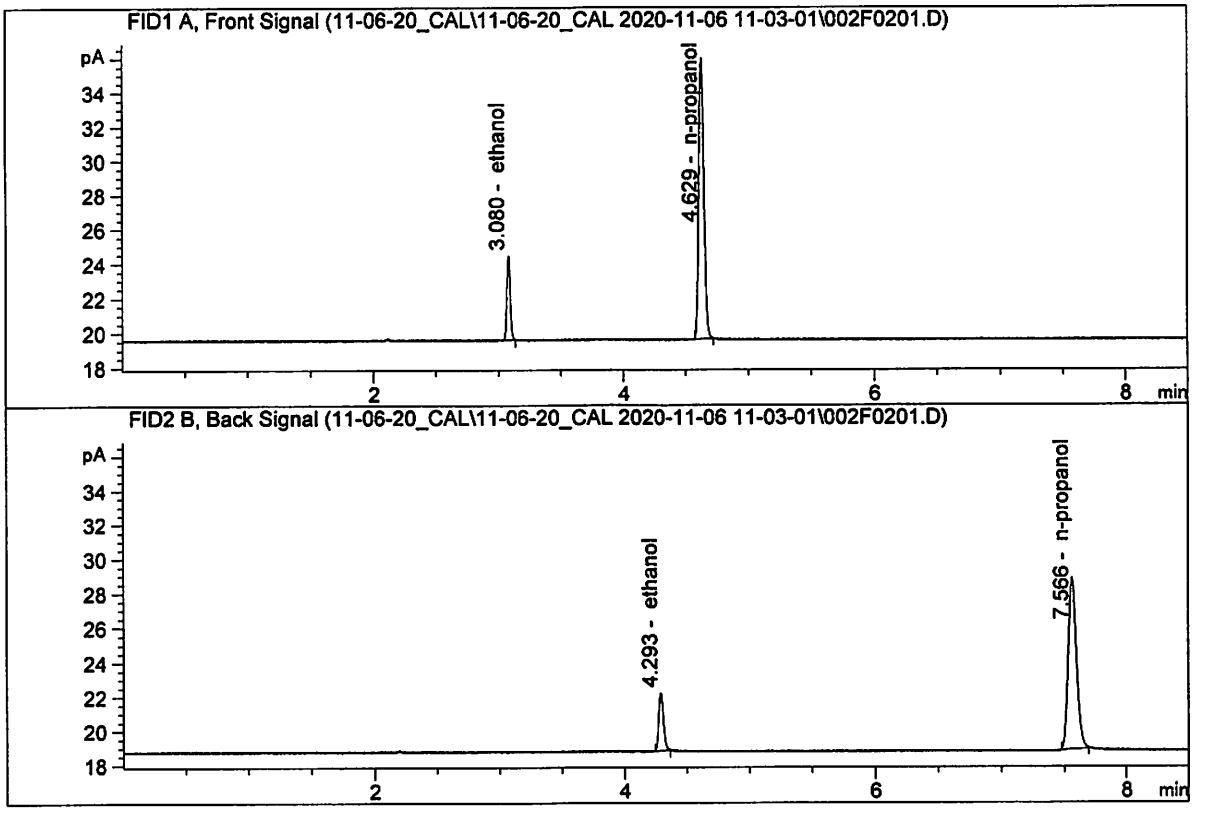


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	4.49381	0.0510	g/100cc
2.	Ethanol	Column 2:	4.60429	0.0527	g/100cc
3.	n-Propanol	Column 1:	46.99450	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.71027	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

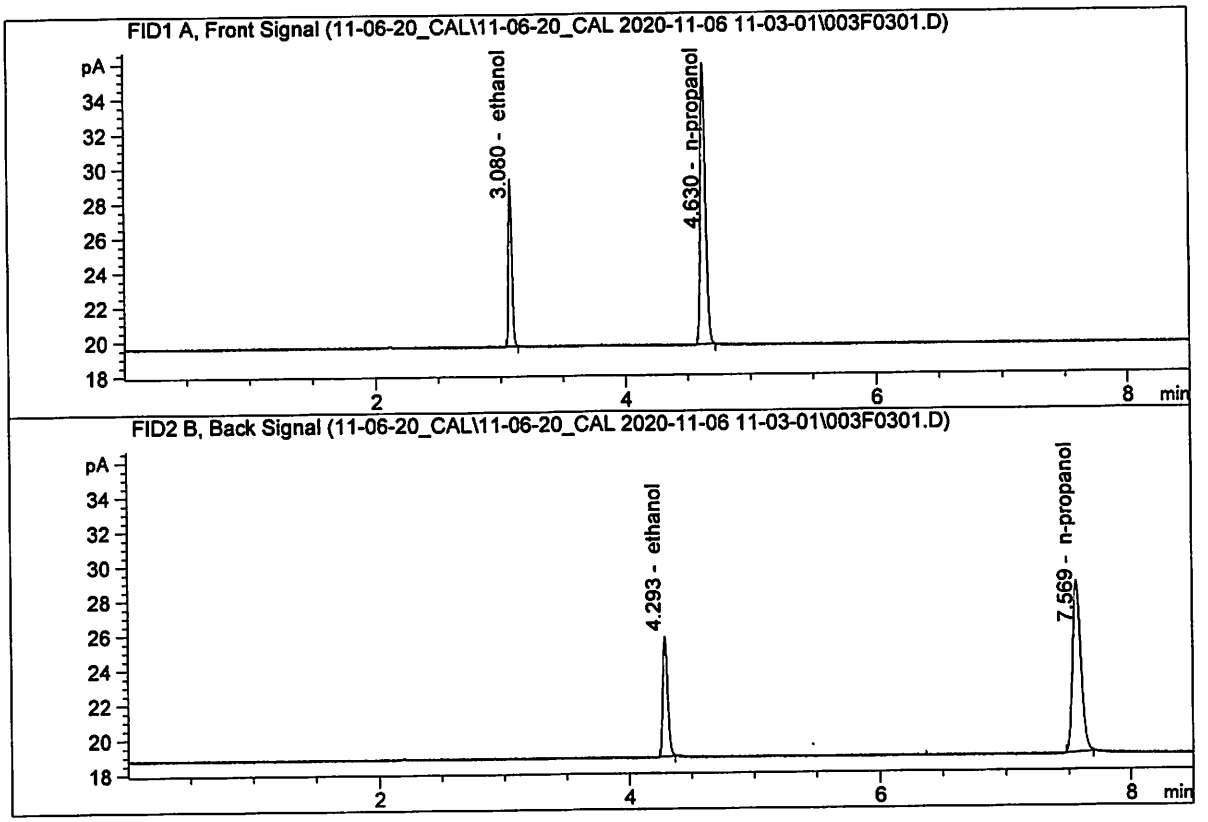
Sample Name : 0.100 FN02271802
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.93291	0.1001	g/100cc
2.	Ethanol	Column 2:	9.11517	0.0999	g/100cc
3.	n-Propanol	Column 1:	46.60860	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.93089	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.200 FN06231704
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

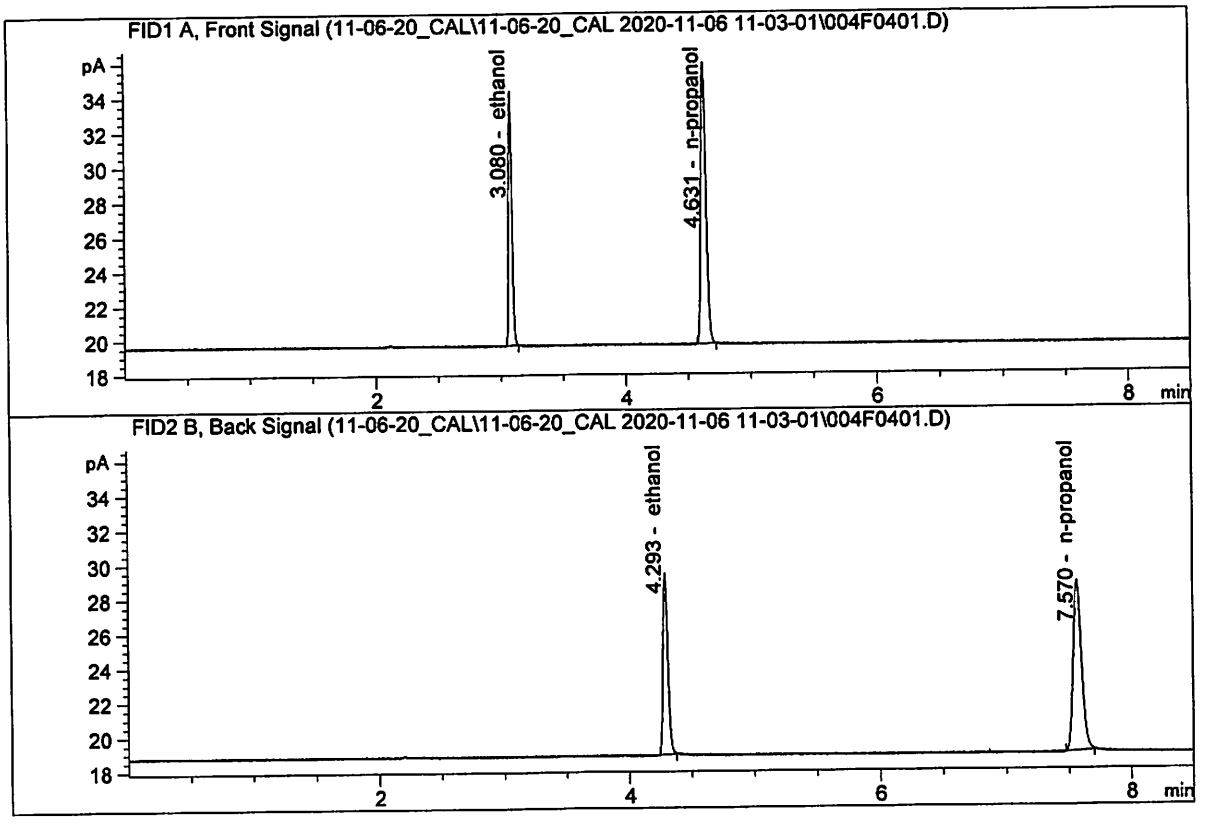


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.78029	0.1989	g/100cc
2.	Ethanol	Column 2:	18.34945	0.1975	g/100cc
3.	n-Propanol	Column 1:	46.19387	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.28535	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

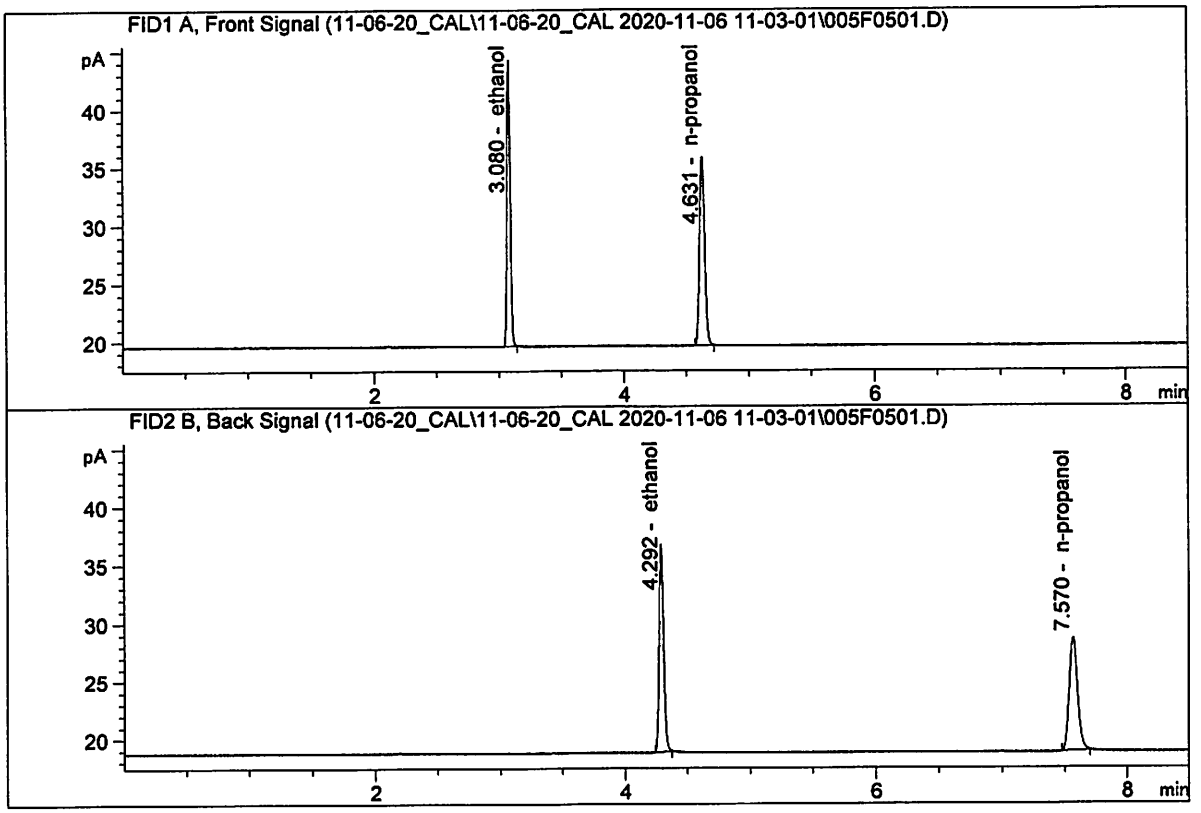
Sample Name : 0.300 FN07311804
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	26.94336	0.2992	g/100cc
2.	Ethanol	Column 2:	28.10586	0.2978	g/100cc
3.	n-Propanol	Column 1:	46.35681	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.53572	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

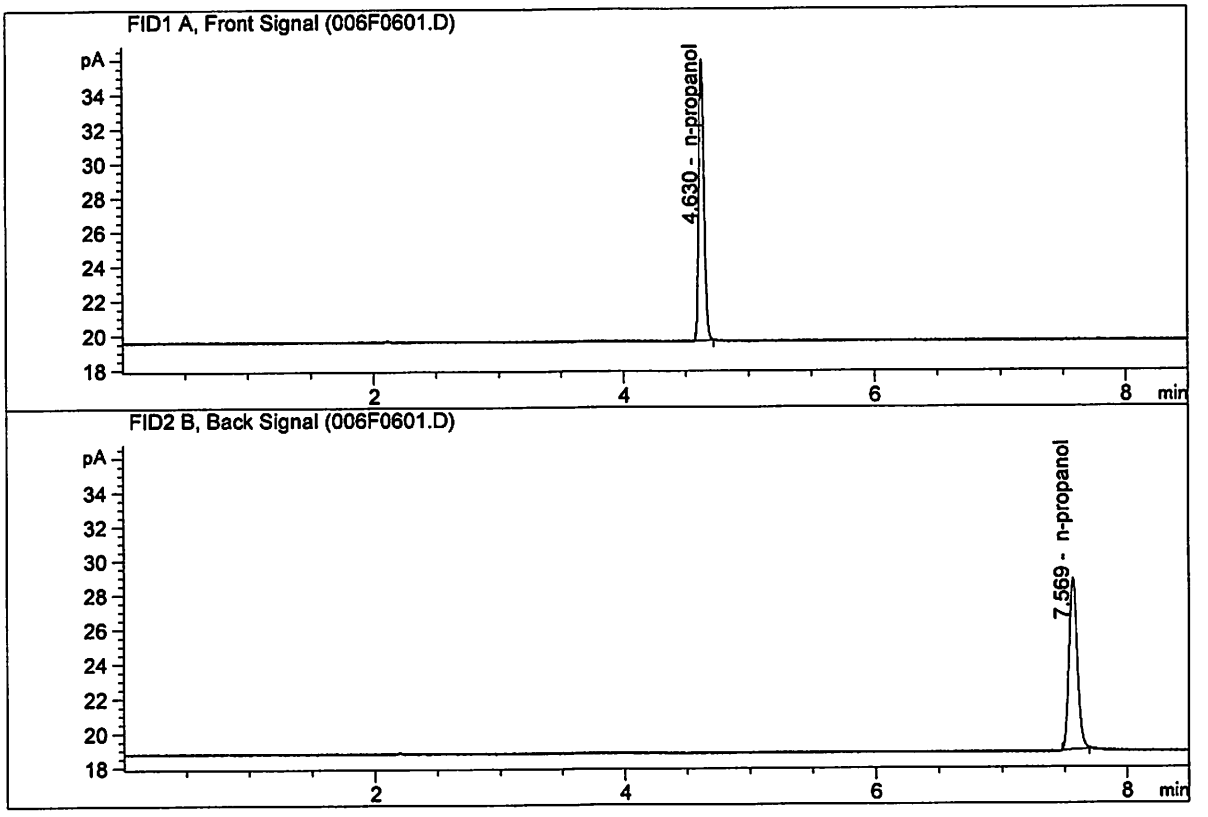
Sample Name : 0.500 FN08241801
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	44.95221	0.5008	g/100cc
2.	Ethanol	Column 2:	47.23547	0.5021	g/100cc
3.	n-Propanol	Column 1:	46.07421	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.98842	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STANDARD BLANK
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	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:	46.43234	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.34886	1.0000	g/100cc

Sequence File C:\Chem32\1\Data\11-06-20_CAL\11-06-20_CAL 2020-11-06 11-03-01\11-06-20_CAL.S

Sample Summary

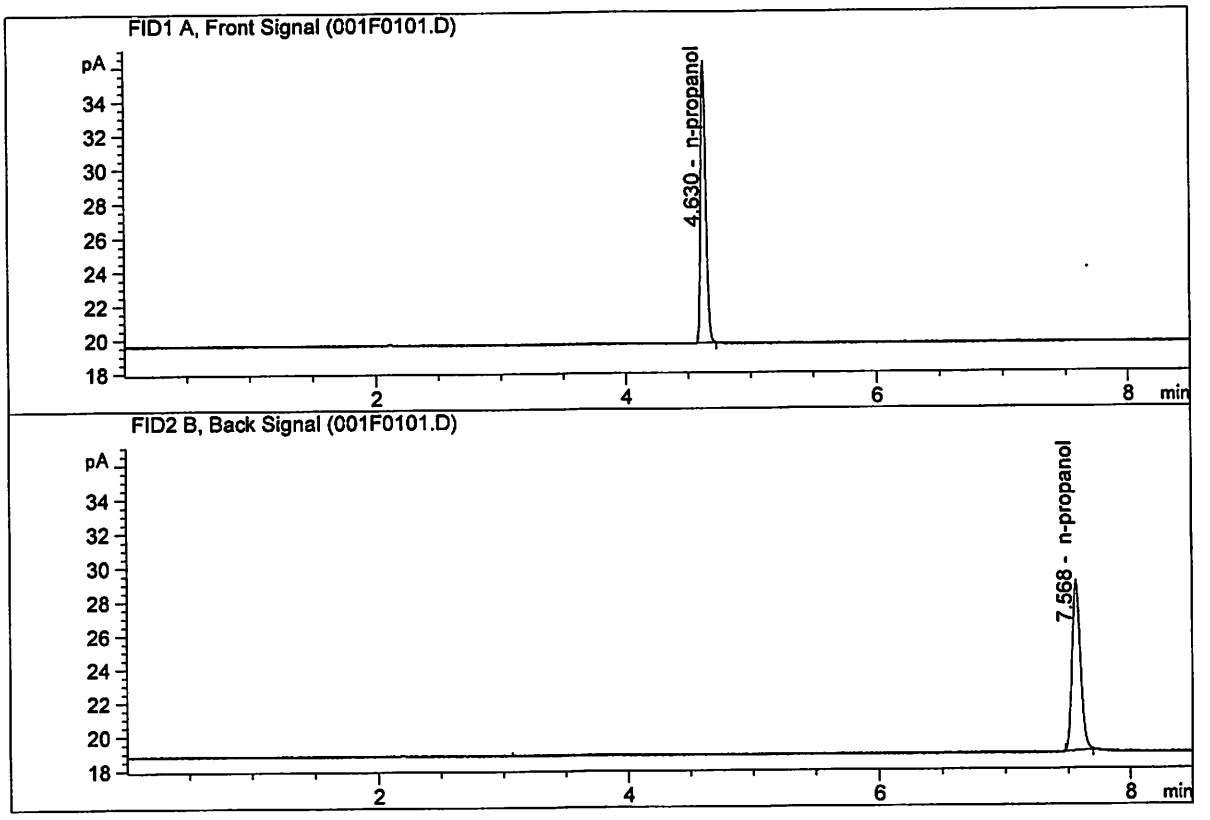
Sequence table: C:\Chem32\1\Data\11-06-20_CAL\11-06-20_CAL 2020-11-06 11-03-01\11-06-20_CAL.S
Data directory path: C:\Chem32\1\Data\11-06-20_CAL\11-06-20_CAL 2020-11-06 11-03-01\
Logbook: C:\Chem32\1\Data\11-06-20_CAL\11-06-20_CAL 2020-11-06 11-03-01\11-06-20_CAL.LOG
Sequence start: 11/6/2020 11:17:40 AM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\11-06-20_CAL\11-06-20_CAL 2020-11-06 11-03-01\ALCOHOL.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
1	1	1	0.050 FN05211804	-	1.0000	001F0101.D	*	4
2	2	1	0.100 FN02271802	-	1.0000	002F0201.D	*	4
3	3	1	0.200 FN06231704	-	1.0000	003F0301.D	*	4
4	4	1	0.300 FN07311804	-	1.0000	004F0401.D	*	4
5	5	1	0.500 FN08241801	-	1.0000	005F0501.D	*	4
6	6	1	INTERNAL STANDAR	-	1.0000	006F0601.D		2

ISP Forensic Services Blood Alcohol Report

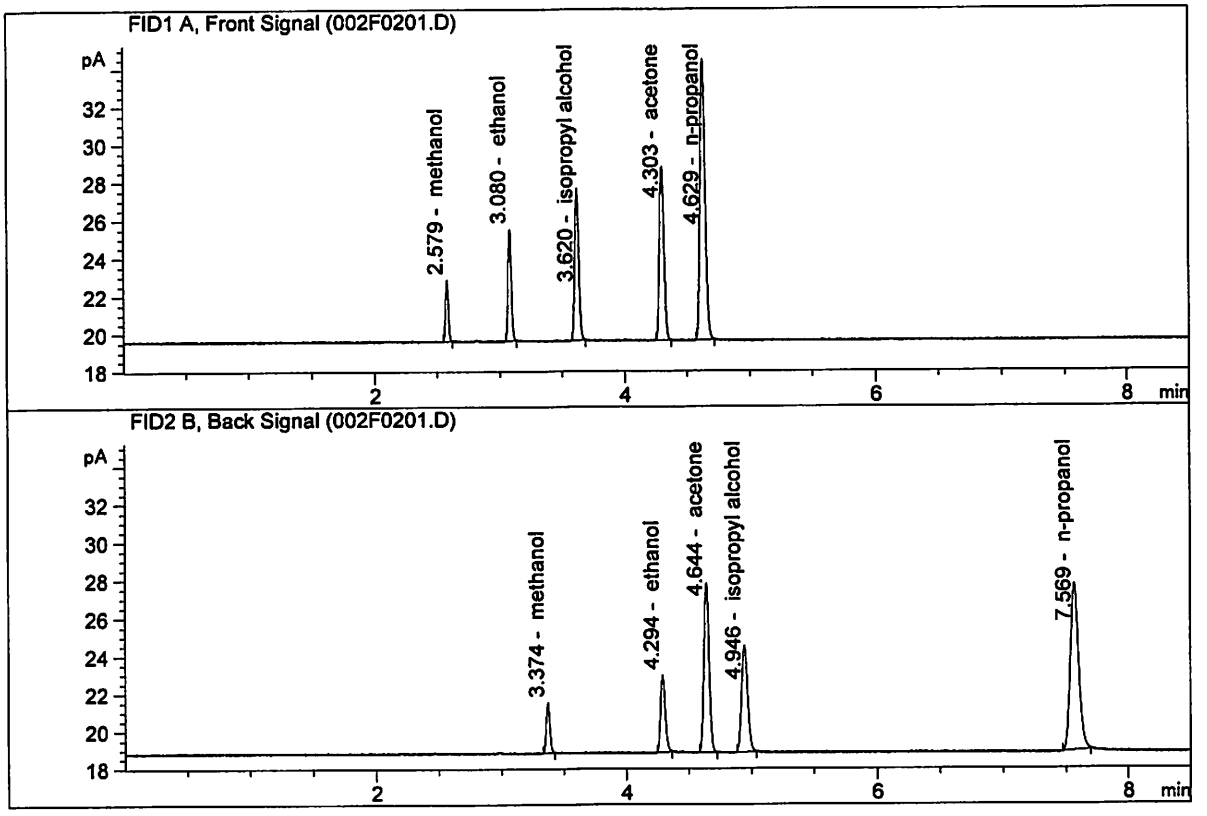
Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	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:	47.24656	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.55023	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN07101701
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.57299	0.1311	g/100cc
2.	Ethanol	Column 2:	10.85576	0.1321	g/100cc
3.	n-Propanol	Column 1:	41.89639	1.0000	g/100cc
4.	n-Propanol	Column 2:	42.48770	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 06 Nov 2020**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0730	0.0741	0.0011	0.0735	0.0001	0.0736
(g/100cc)	0.0731	0.0742	0.0011	0.0736		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument information is stored centrally.*

Refer to Instrument Method: Alcohol.m

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

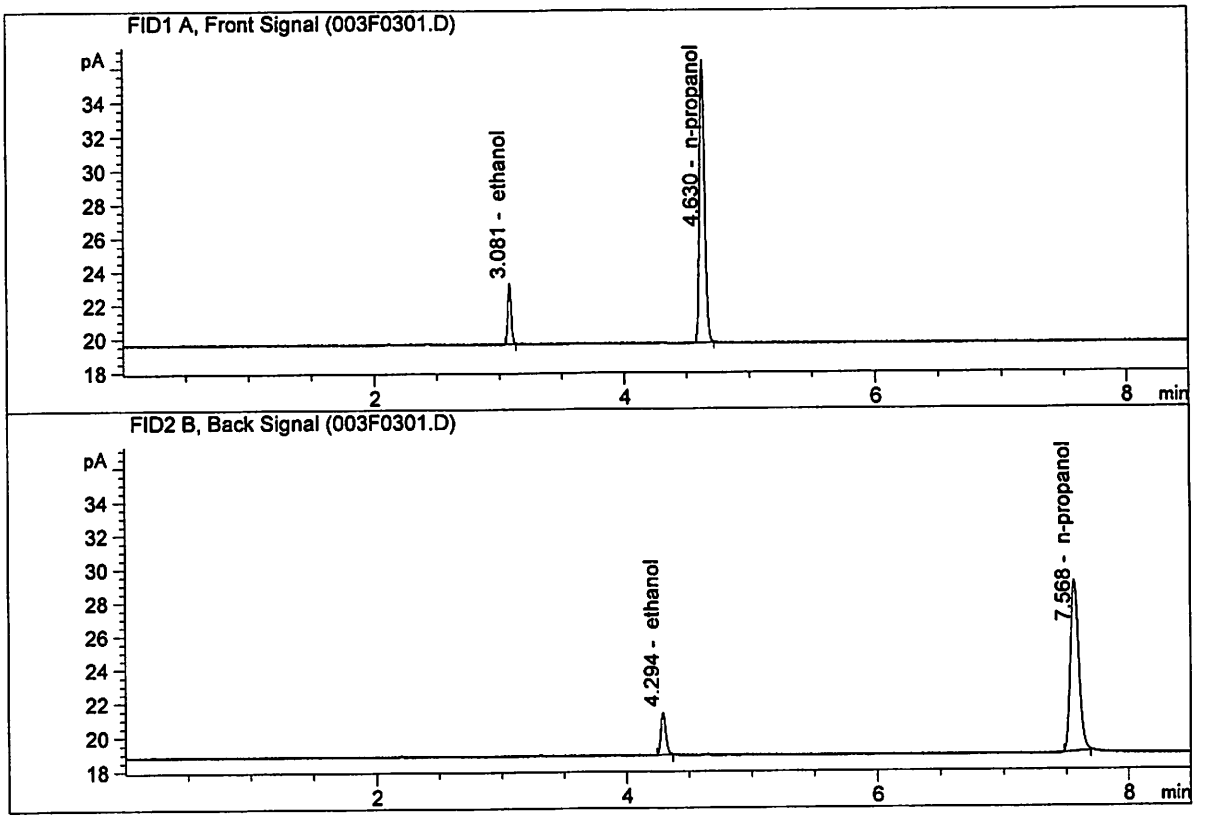
Overall Mean (g/100cc)	Low	High	5% of Mean
0.073	**0.069**	**0.077**	**0.004**

Reported Result
0.073

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

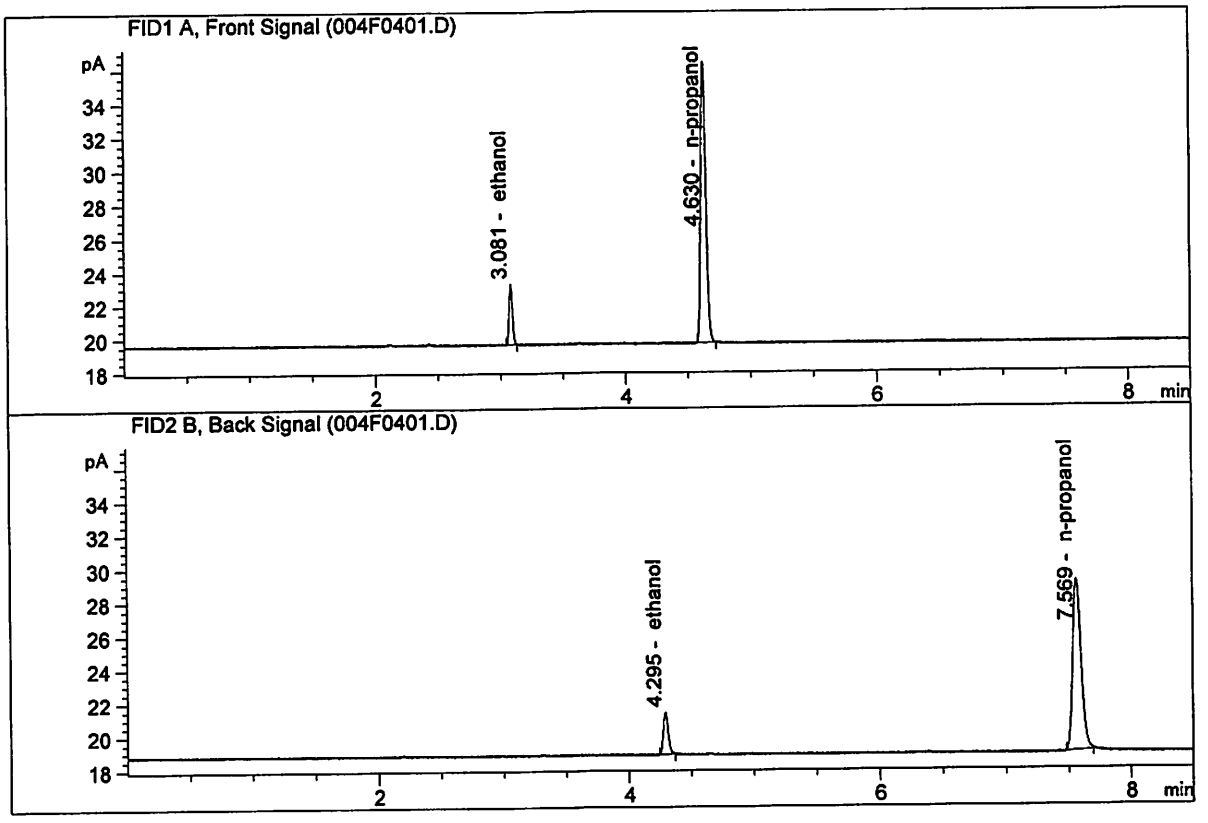


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.61348	0.0730	g/100cc
2.	Ethanol	Column 2:	6.69989	0.0741	g/100cc
3.	n-Propanol	Column 1:	47.67546	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.58412	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.65778	0.0731	g/100cc
2.	Ethanol	Column 2:	6.74537	0.0742	g/100cc
3.	n-Propanol	Column 1:	47.93069	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.87859	1.0000	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN09181807 **Analysis Date(s): 06 Nov 2020**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0802	0.0814	0.0012	0.0808	0.0000	0.0808
(g/100cc)	0.0805	0.0811	0.0006	0.0808		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument information is stored centrally.*

Refer to Instrument Method: Alcohol.m

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

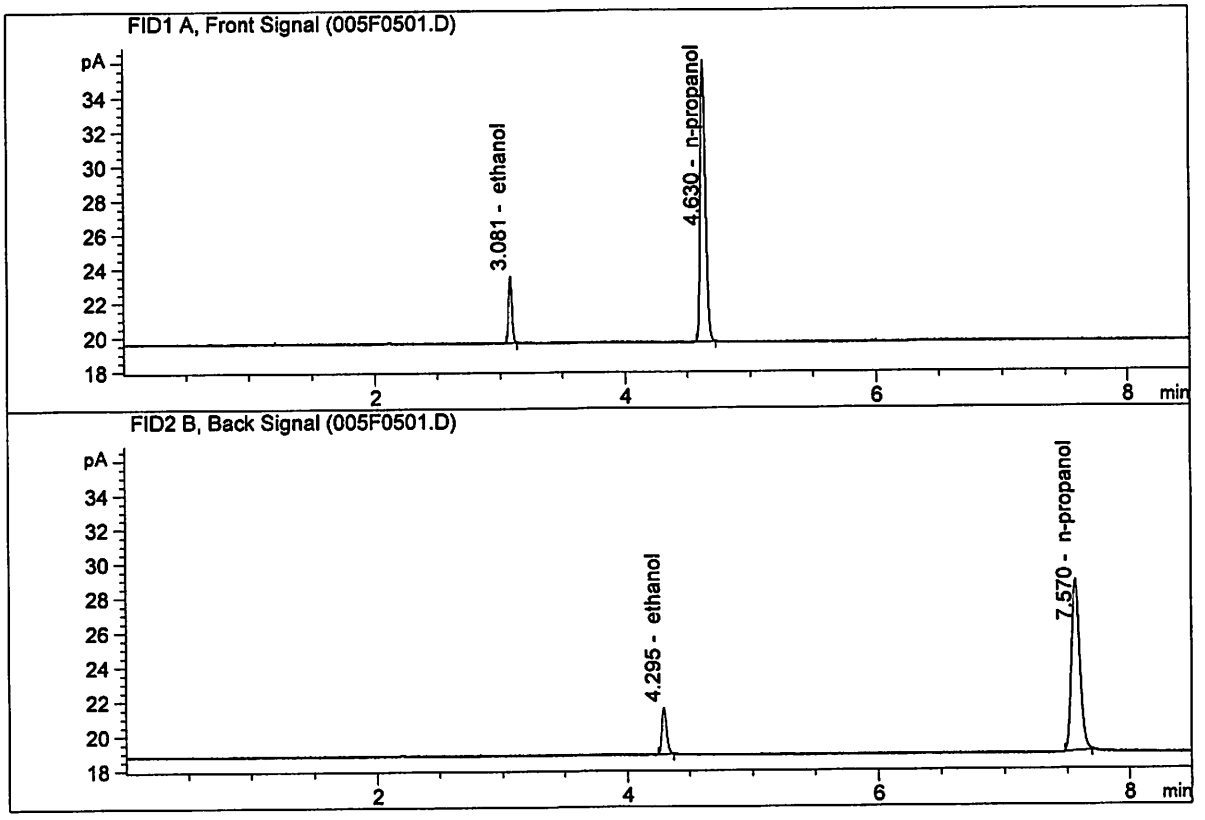
	Reported Result	
	0.080	

Calibration and control data are stored centrally.

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN09181807-A
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

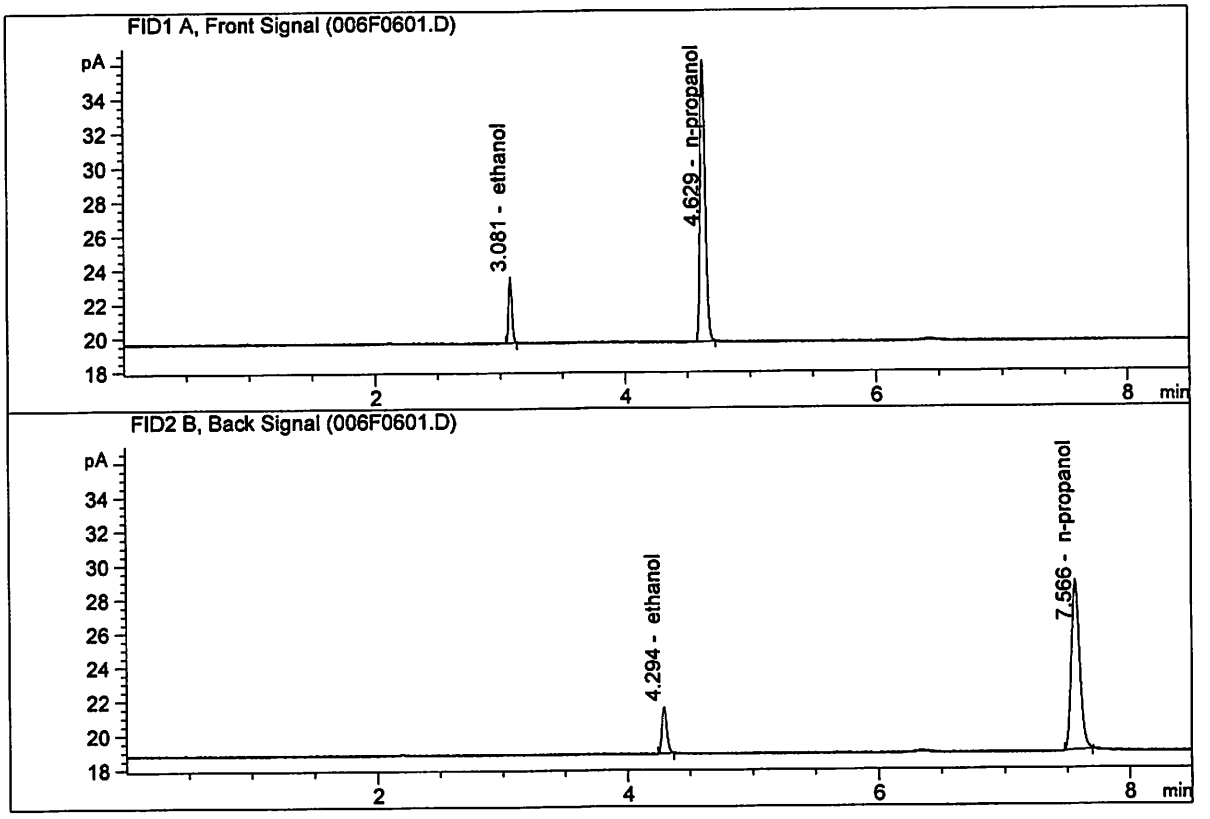


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.15351	0.0802	g/100cc
2.	Ethanol	Column 2:	7.28342	0.0814	g/100cc
3.	n-Propanol	Column 1:	46.83600	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.69006	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN09181807-B
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.19252	0.0805	g/100cc
2.	Ethanol	Column 2:	7.25944	0.0811	g/100cc
3.	n-Propanol	Column 1:	46.88598	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.76303	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 06 Nov 2020**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2018	0.2008	0.0010	0.2013	0.0007	0.2009
(g/100cc)	0.2005	0.2008	0.0003	0.2006		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument information is stored centrally.*

Refer to Instrument Method: Alcohol.m

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.200	0.190	0.210	0.010

Reported Result

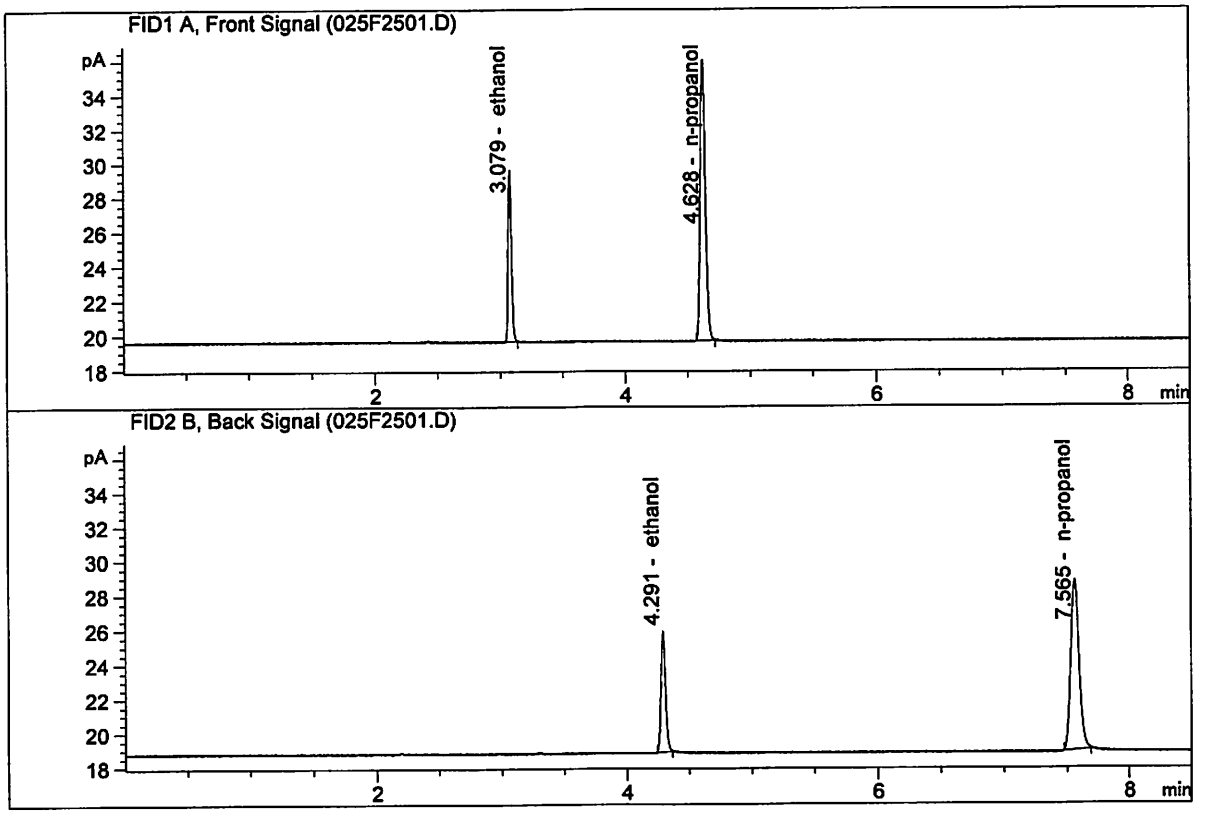
0.200

Calibration and control data are stored centrally.

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

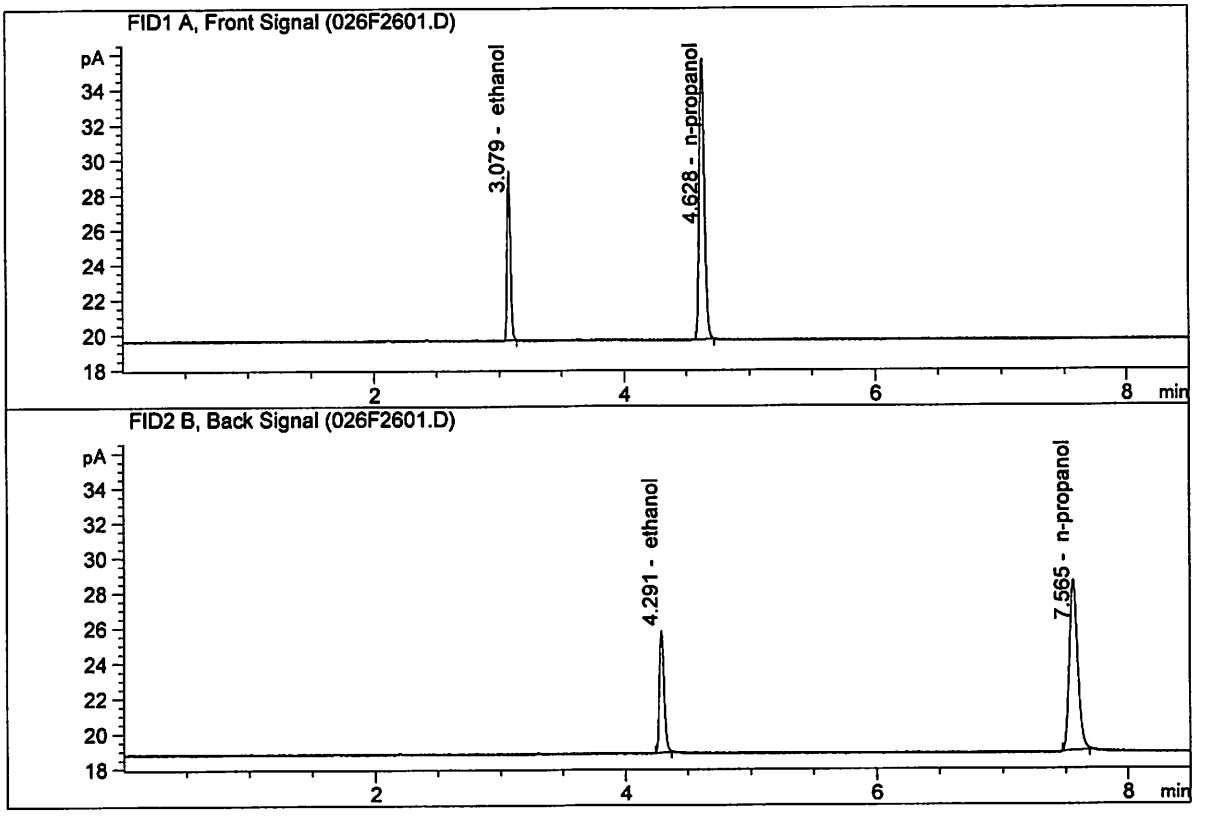


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.24243	0.2018	g/100cc
2.	Ethanol	Column 2:	18.72067	0.2008	g/100cc
3.	n-Propanol	Column 1:	46.70885	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.43682	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.73219	0.2005	g/100cc
2.	Ethanol	Column 2:	18.28852	0.2008	g/100cc
3.	n-Propanol	Column 1:	45.68824	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.34198	1.0000	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Analysis Date(s): 06 Nov 2020**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results (g/100cc)	0.0747	0.0750	0.0003	0.0748	0.0000	0.0748
	0.0747	0.0750	0.0003	0.0748		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument information is stored centrally.*

Refer to Instrument Method: Alcohol.m

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.074	0.070	0.078	0.004

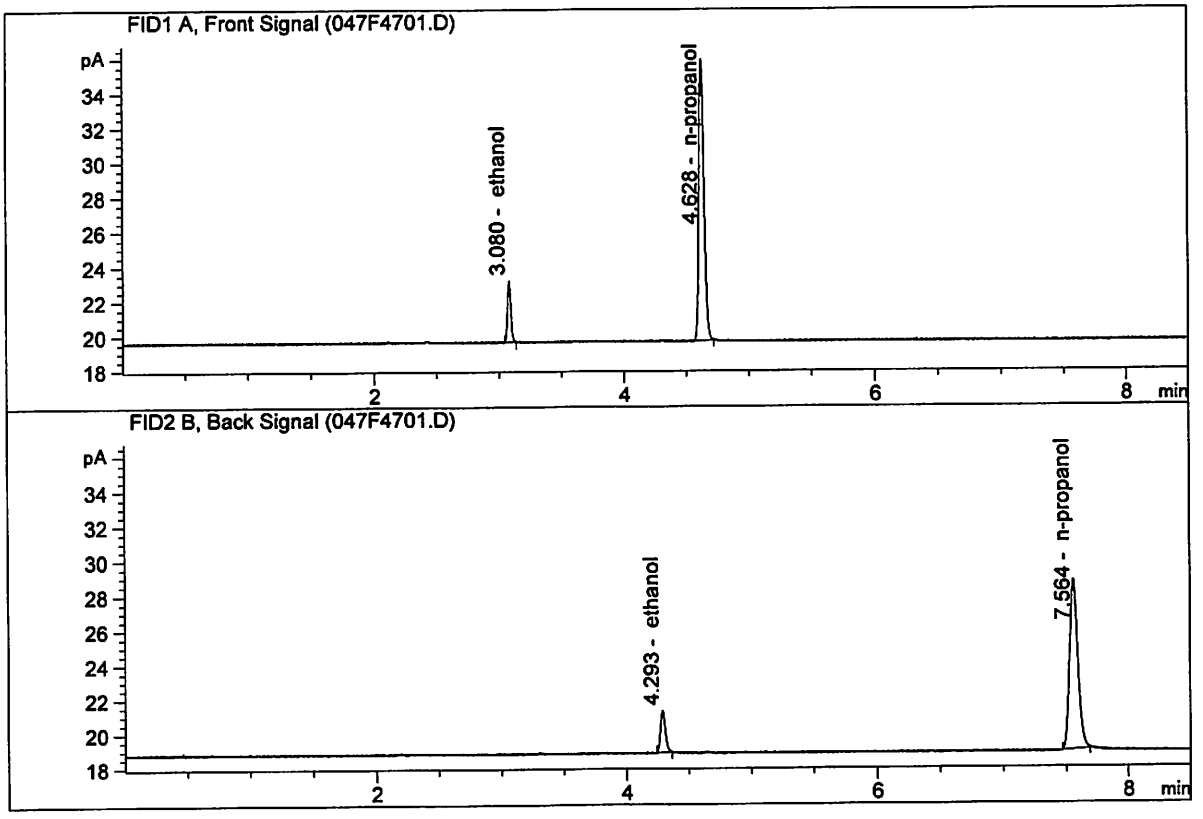
	Reported Result	
	0.074	

Calibration and control data are stored centrally.

NB

ISP Forensic Services Blood Alcohol Report

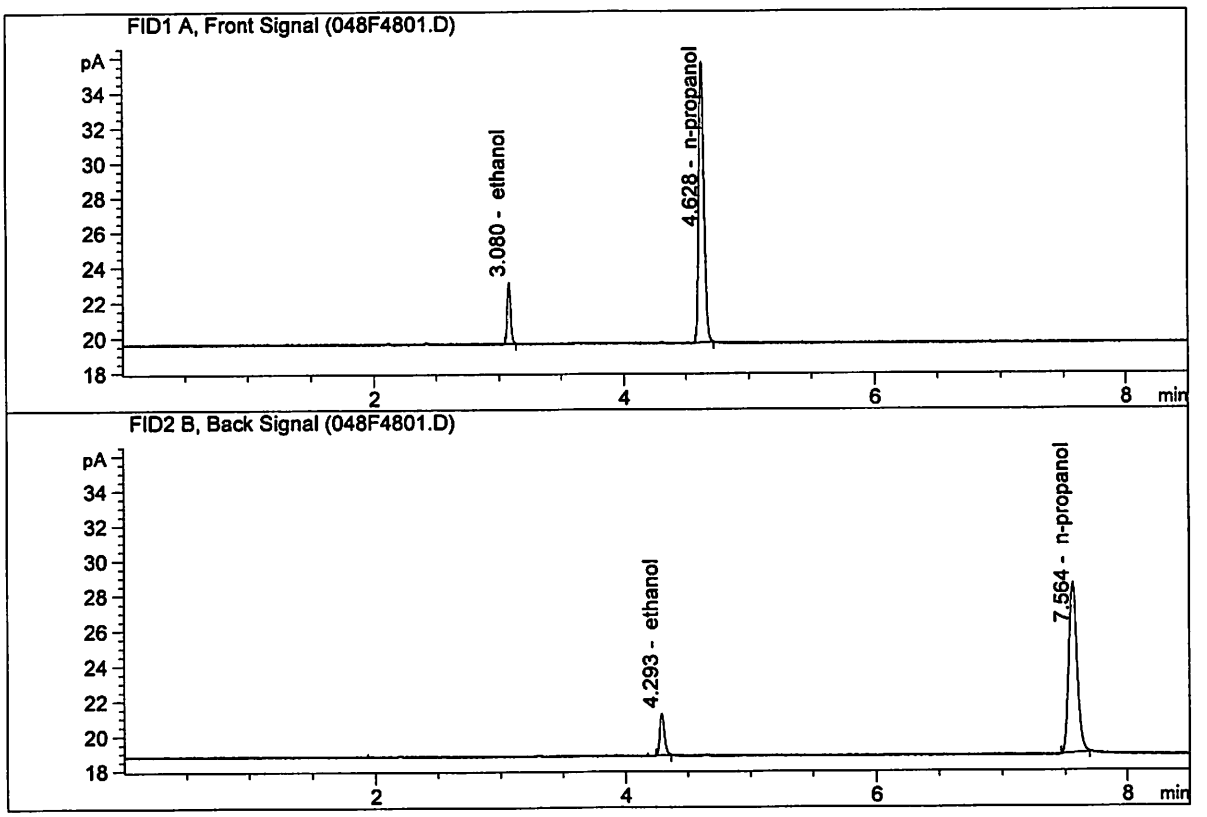
Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.58438	0.0747	g/100cc
2.	Ethanol	Column 2:	6.59046	0.0750	g/100cc
3.	n-Propanol	Column 1:	46.36181	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.16759	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.49797	0.0747	g/100cc
2.	Ethanol	Column 2:	6.50570	0.0750	g/100cc
3.	n-Propanol	Column 1:	45.75571	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.53997	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-2 **Analysis Date(s): 06 Nov 2020**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results (g/100cc)	0.2048	0.2052	0.0004	0.2050	0.0026	0.2037
	0.2026	0.2022	0.0004	0.2024		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument information is stored centrally.*

Refer to Instrument Method: Alcohol.m

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.203	0.192	0.214	0.011

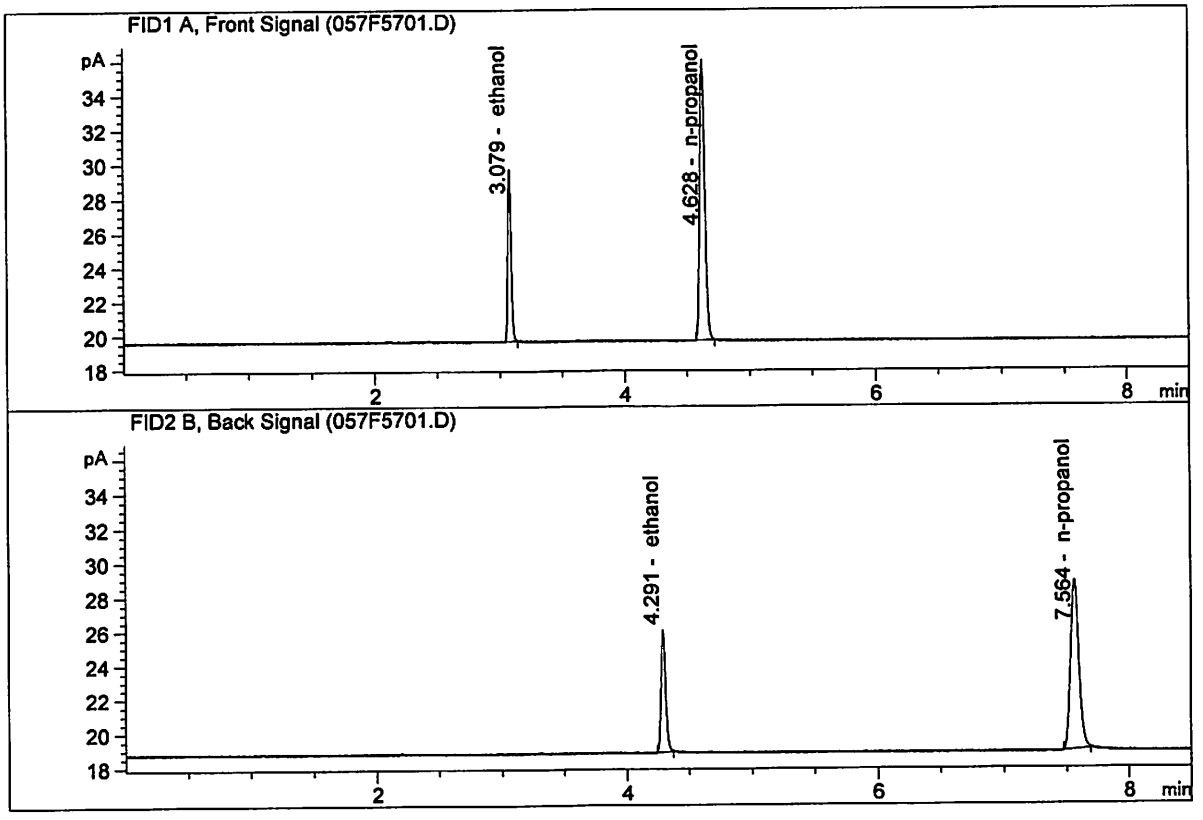
Reported Result

0.203

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

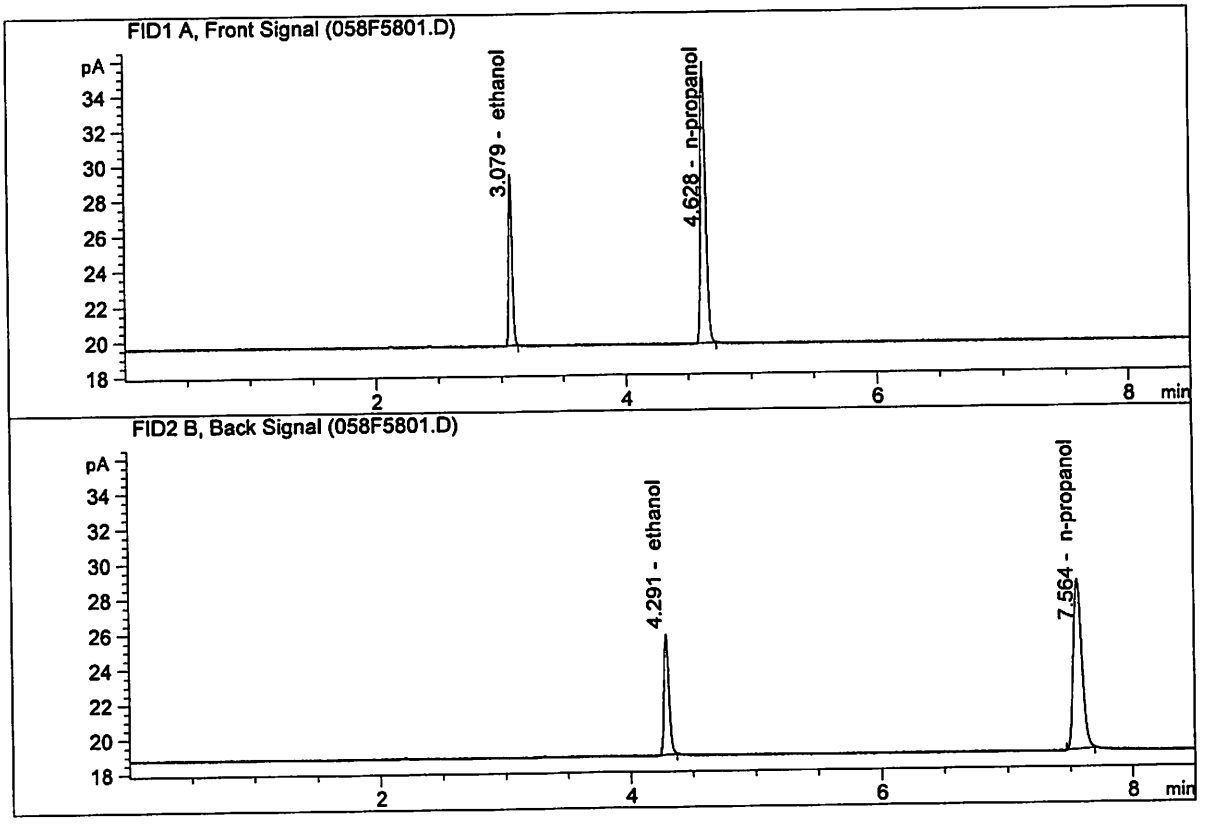
Sample Name : QC2-2-A
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.55101	0.2048	g/100cc
2.	Ethanol	Column 2:	19.16593	0.2052	g/100cc
3.	n-Propanol	Column 1:	46.79465	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.49787	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

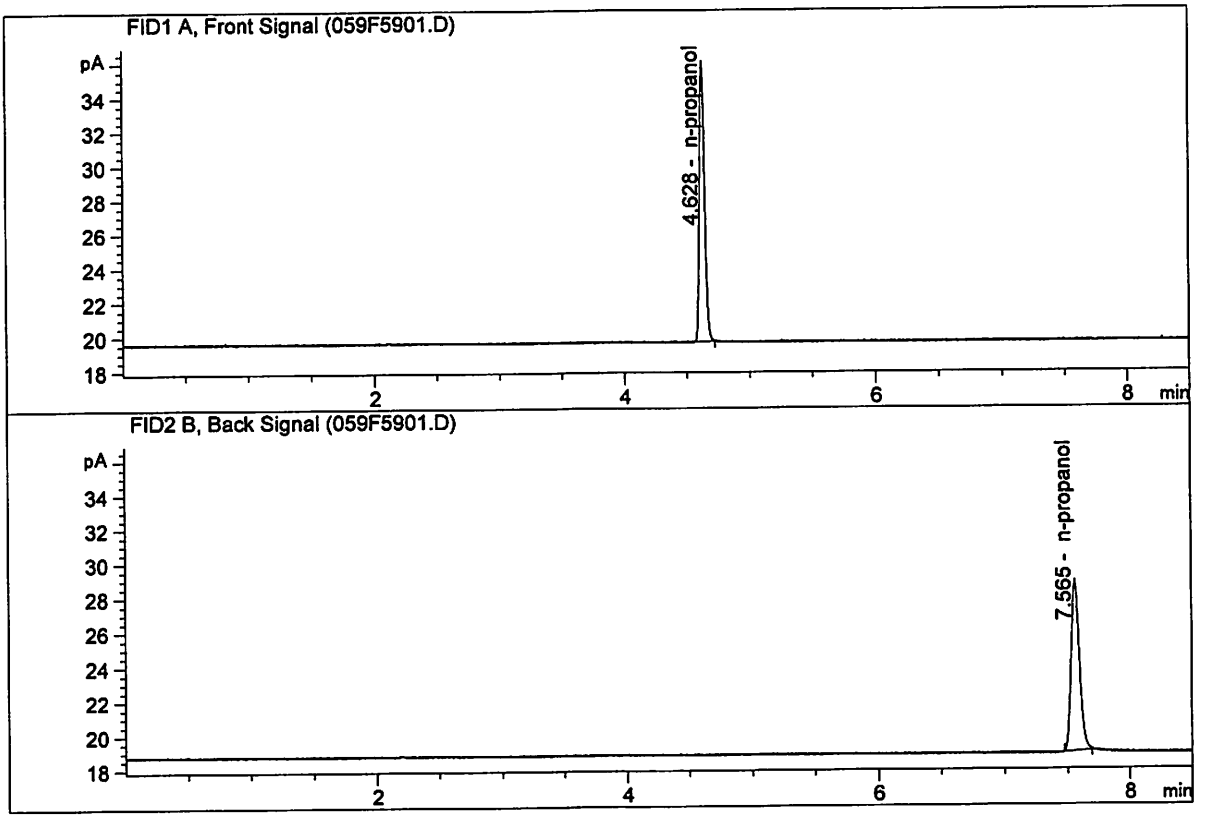
Sample Name : QC2-2-B
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.91033	0.2026	g/100cc
2.	Ethanol	Column 2:	18.47248	0.2022	g/100cc
3.	n-Propanol	Column 1:	45.67607	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.48032	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 2
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

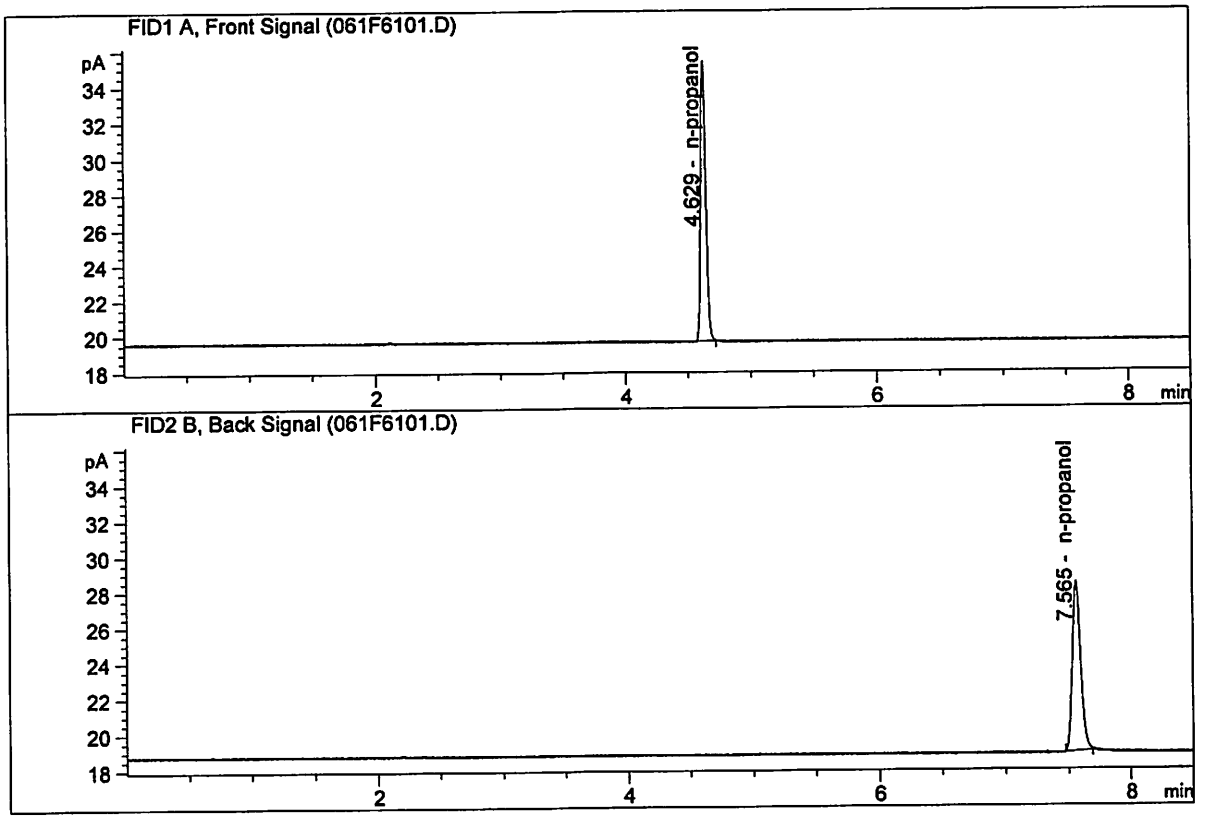


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	46.76942	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.64257	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 3
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

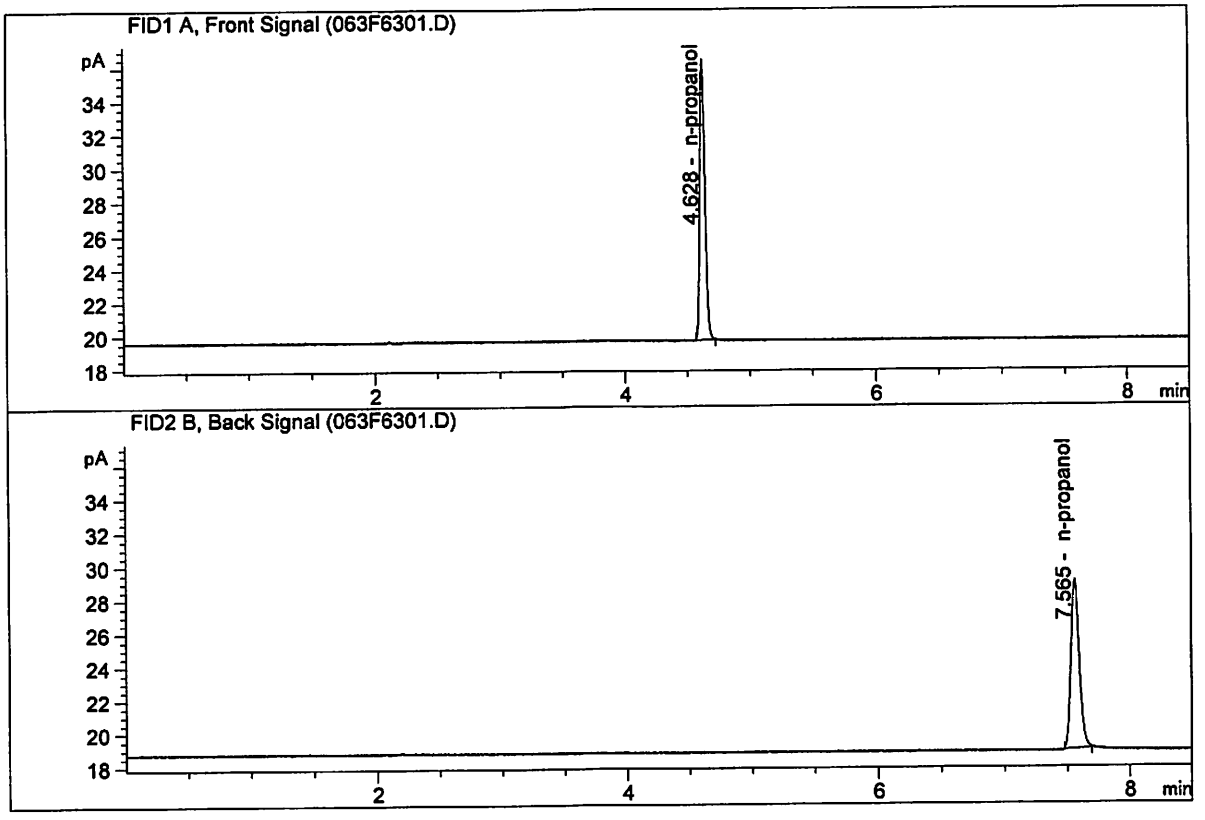


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	44.89699	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.61111	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

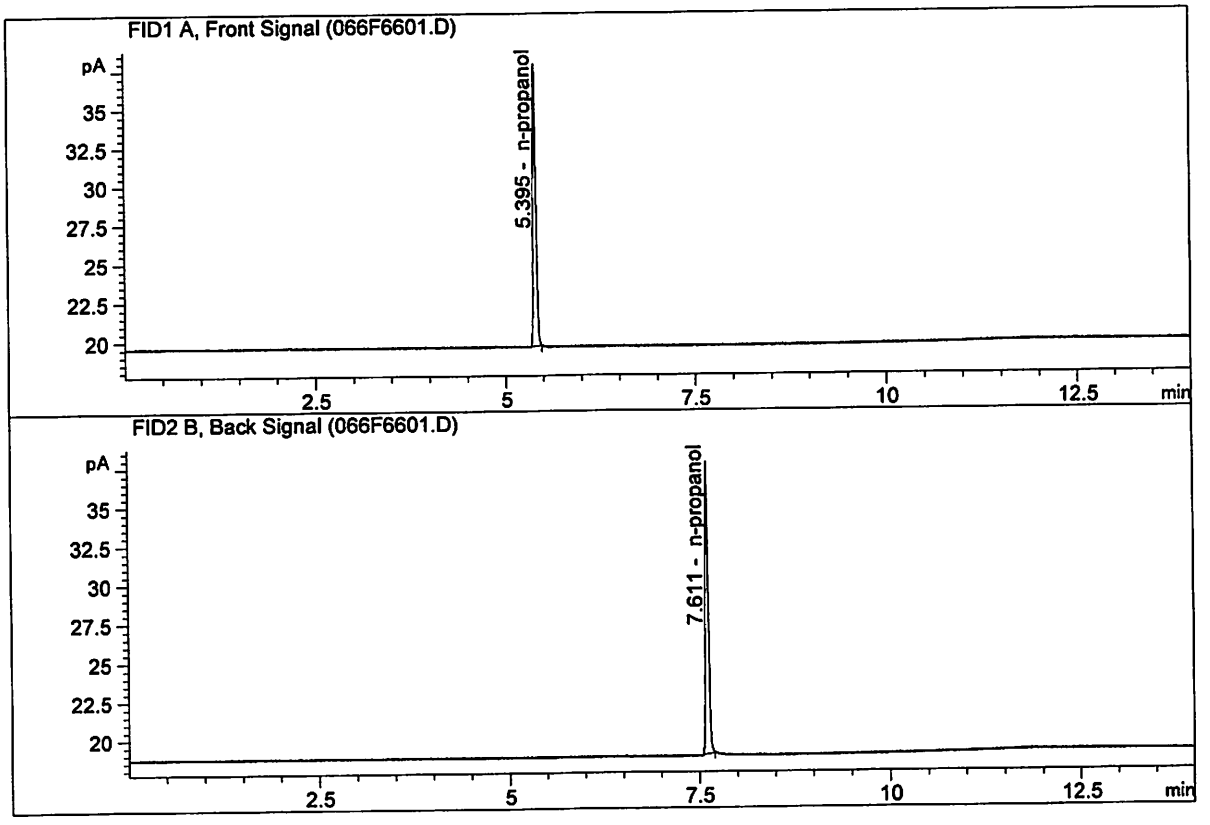
Sample Name : INTERNAL STD BLK 4
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	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:	47.87582	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.77444	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 5
Laboratory : Meridian
Injection Date : Nov 7, 2020
Method : VOLATILES.M
Acq. Instrument: CN11180014-CN11041167

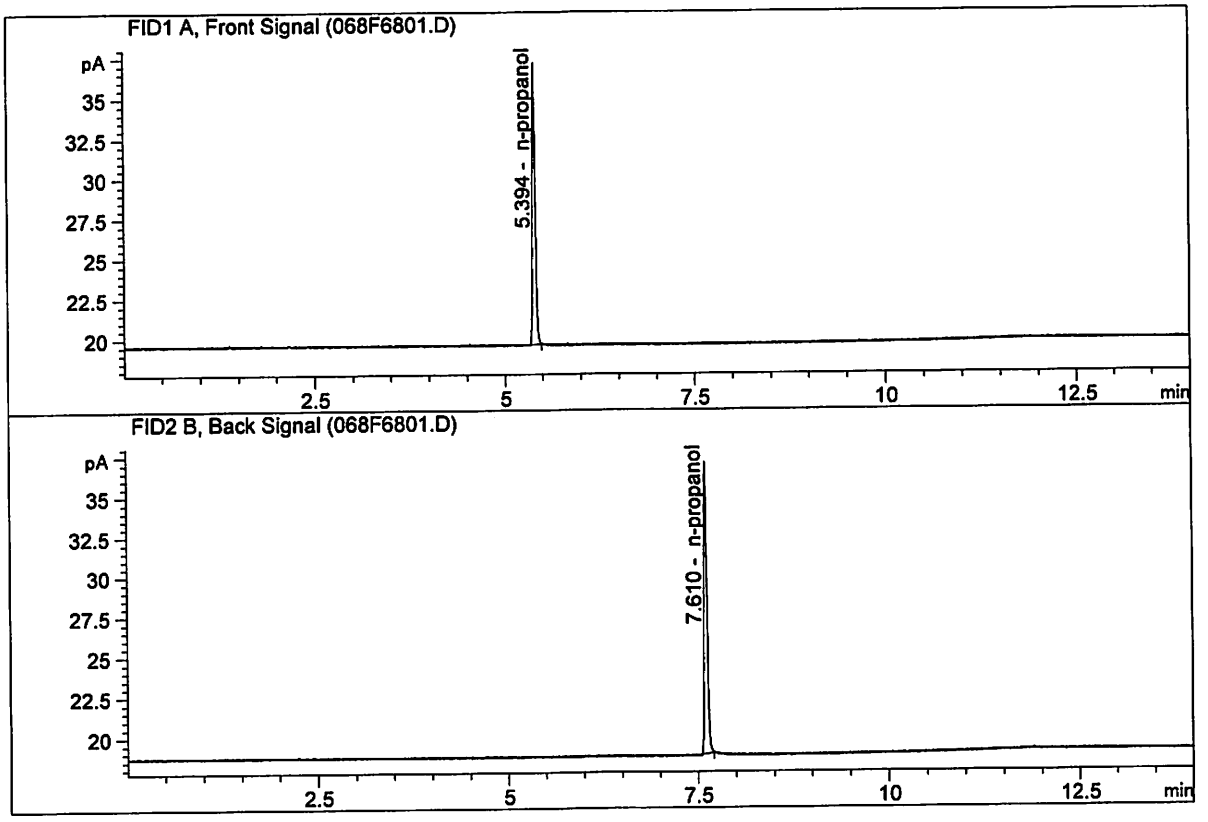


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	47.50863	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.85346	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 6
Laboratory : Meridian
Injection Date : Nov 7, 2020
Method : VOLATILES.M
Acq. Instrument: CN11180014-CN11041167

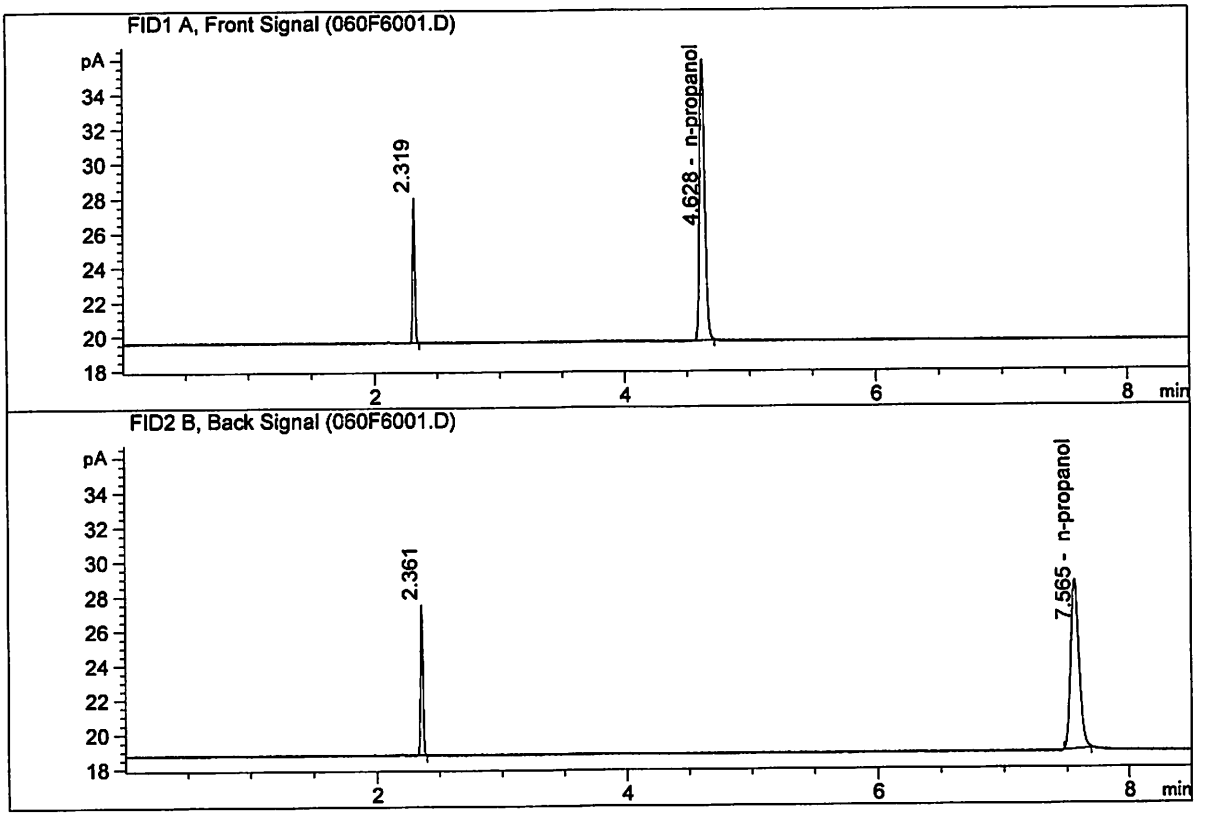


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	45.80339	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.22307	1.0000	g/100cc

MB

ISP Forensic Services Blood Alcohol Report

Sample Name : DFE 111914OM
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

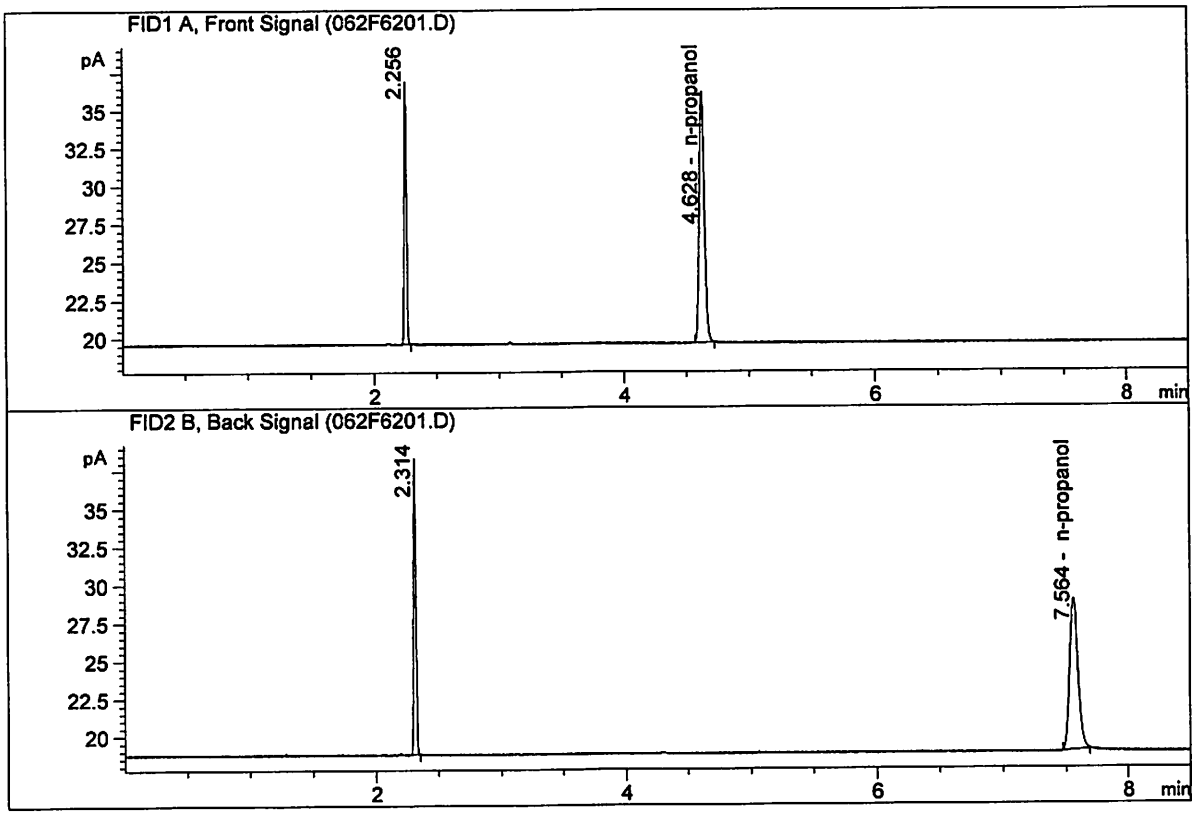


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	46.34364	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.08738	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

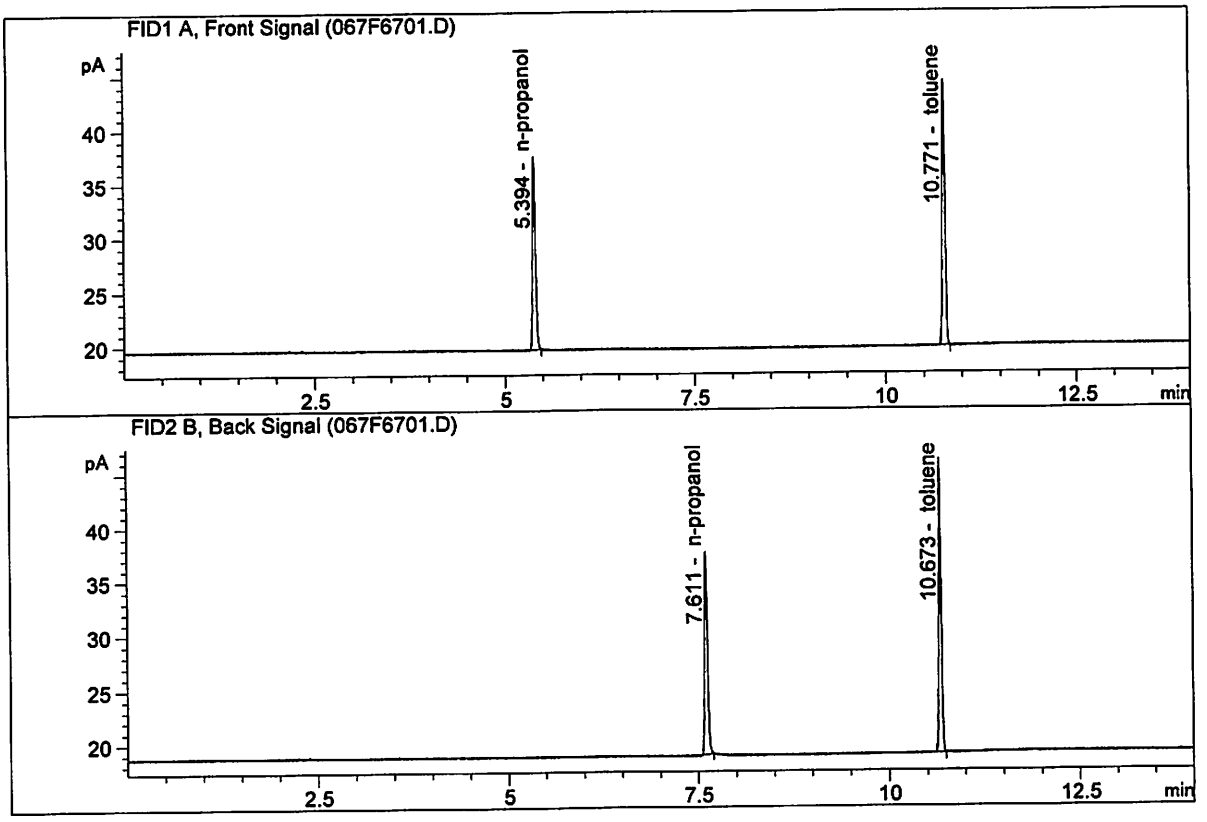
Sample Name : TFE 111914
Laboratory : Meridian
Injection Date : Nov 6, 2020
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	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:	47.20942	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.99339	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : TOLUNE 02007
Laboratory : Meridian
Injection Date : Nov 7, 2020
Method : VOLATILES.M
Acq. Instrument: CN11180014-CN11041167



#	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:	46.81293	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.08805	1.0000	g/100cc

AB

Sample Summary

Sequence table: C:\Chem32\1\Data\11-06-20_SAMPLES\11-06-20_SAMPLES 2020-11-06 12-39-12\11-06-20_SAMPLES.S
Data directory path: C:\Chem32\1\Data\11-06-20_SAMPLES\11-06-20_SAMPLES 2020-11-06 12-39-12\
Logbook: C:\Chem32\1\Data\11-06-20_SAMPLES\11-06-20_SAMPLES 2020-11-06 12-39-12\11-06-20_SAMPLES.LOG
Sequence start: 11/6/2020 12:54:02 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\11-06-20_SAMPLES\11-06-20_SAMPLES 2020-11-06 12-39-12\ALCOHOL.M

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	Cmp
1	1	1	INTERNAL STD BLK	-	1.0000	001F0101.D		2
2	2	1	MIX VOL FN071017	-	1.0000	002F0201.D		10
3	3	1	QC1-1-A	-	1.0000	003F0301.D		4
4	4	1	QC1-1-B	-	1.0000	004F0401.D		4
5	5	1	0.08 FN09181807-	-	1.0000	005F0501.D		4
6	6	1	0.08 FN09181807-	-	1.0000	006F0601.D		4
7	7	1	M2020-4362-1-A	-	1.0000	007F0701.D		4
8	8	1	M2020-4362-1-B	-	1.0000	008F0801.D		4
9	9	1	M2020-4367-1-A	-	1.0000	009F0901.D		4
10	10	1	M2020-4367-1-B	-	1.0000	010F1001.D		4
11	11	1	M2020-4372-1-A	-	1.0000	011F1101.D		4
12	12	1	M2020-4372-1-B	-	1.0000	012F1201.D		4
13	13	1	M2020-4400-1-A	-	1.0000	013F1301.D		2
14	14	1	M2020-4400-1-B	-	1.0000	014F1401.D		2
15	15	1	M2020-4411-1-A	-	1.0000	015F1501.D		4
16	16	1	M2020-4411-1-B	-	1.0000	016F1601.D		4
17	17	1	M2020-4436-1-A	-	1.0000	017F1701.D		2
18	18	1	M2020-4436-1-B	-	1.0000	018F1801.D		2
19	19	1	M2020-4461-1-A	-	1.0000	019F1901.D		4
20	20	1	M2020-4461-1-B	-	1.0000	020F2001.D		4
21	21	1	M2020-4465-1-A	-	1.0000	021F2101.D		4
22	22	1	M2020-4465-1-B	-	1.0000	022F2201.D		4
23	23	1	M2020-4466-1-A	-	1.0000	023F2301.D		4
24	24	1	M2020-4466-1-B	-	1.0000	024F2401.D		4
25	25	1	QC2-1-A	-	1.0000	025F2501.D		4
26	26	1	QC2-1-B	-	1.0000	026F2601.D		4
27	27	1	M2020-4497-1-A	-	1.0000	027F2701.D		4
28	28	1	M2020-4497-1-B	-	1.0000	028F2801.D		4
29	29	1	M2020-4501-1-A	-	1.0000	029F2901.D		4
30	30	1	M2020-4501-1-B	-	1.0000	030F3001.D		4
31	31	1	M2020-4512-1-A	-	1.0000	031F3101.D		4
32	32	1	M2020-4512-1-B	-	1.0000	032F3201.D		4
33	33	1	M2020-4513-1-A	-	1.0000	033F3301.D		4
34	34	1	M2020-4513-1-B	-	1.0000	034F3401.D		4
35	35	1	M2020-4514-1-A	-	1.0000	035F3501.D		2
36	36	1	M2020-4514-1-B	-	1.0000	036F3601.D		2
37	37	1	M2020-4515-1-A	-	1.0000	037F3701.D		4
38	38	1	M2020-4515-1-B	-	1.0000	038F3801.D		4
39	39	1	M2020-4516-1-A	-	1.0000	039F3901.D		4
40	40	1	M2020-4516-1-B	-	1.0000	040F4001.D		4
41	41	1	M2020-4542-1-A	-	1.0000	041F4101.D		4
42	42	1	M2020-4542-1-B	-	1.0000	042F4201.D		4
43	43	1	M2020-4543-1-A	-	1.0000	043F4301.D		4

Sequence File C:\Chem32\...0_SAMPLES\11-06-20_SAMPLES 2020-11-06 12-39-12\11-06-20_SAMPLES.S

Run #	Location #	Inj	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
44	44	1	M2020-4543-1-B	-	1.0000	044F4401.D		4
45	45	1	M2020-4547-1-A	-	1.0000	045F4501.D		2
46	46	1	M2020-4547-1-B	-	1.0000	046F4601.D		2
47	47	1	QC1-2-A	-	1.0000	047F4701.D		4
48	48	1	QC1-2-B	-	1.0000	048F4801.D		4
49	49	1	M2020-4548-1-A	-	1.0000	049F4901.D		4
50	50	1	M2020-4548-1-B	-	1.0000	050F5001.D		4
51	51	1	M2020-4549-1-A	-	1.0000	051F5101.D		4
52	52	1	M2020-4549-1-B	-	1.0000	052F5201.D		4
53	53	1	M2020-4550-1-A	-	1.0000	053F5301.D		2
54	54	1	M2020-4550-1-B	-	1.0000	054F5401.D		2
55	55	1	P2020-3243-2-A	-	1.0000	055F5501.D		2
56	56	1	P2020-3243-2-B	-	1.0000	056F5601.D		2
57	57	1	QC2-2-A	-	1.0000	057F5701.D		4
58	58	1	QC2-2-B	-	1.0000	058F5801.D		4
59	59	1	INTERNAL STD BLK	-	1.0000	059F5901.D		2
60	60	1	DFE 111914OM	-	1.0000	060F6001.D		2
61	61	1	INTERNAL STD BLK	-	1.0000	061F6101.D		2
62	62	1	TFE 111914	-	1.0000	062F6201.D		2
63	63	1	INTERNAL STD BLK	-	1.0000	063F6301.D		2

Method file name: C:\Chem32\1\Data\11-06-20_SAMPLES\11-06-20_SAMPLES 2020-11-06 12-39-12 \VOLATILES.M

Run #	Location #	Inj	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
64	64	1	M2020-4514-1-VOL	-	1.0000	064F6401.D		2
65	65	1	M2020-4514-1-VOL	-	1.0000	065F6501.D		2
66	66	1	INTERNAL STD BLK	-	1.0000	066F6601.D		2
67	67	1	TOLUNE 02007	-	1.0000	067F6701.D		4
68	68	1	INTERNAL STD BLK	-	1.0000	068F6801.D		2

Method file name: C:\Chem32\1\Data\11-06-20_SAMPLES\11-06-20_SAMPLES 2020-11-06 12-39-12 \SHUTDOWN.M

Run #	Location #	Inj	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
69	69	1	EMPTY	-	1.0000	069F6901.D		0