Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB 600 Liquid Processor/Dilutor Serial Number: ML600HC11378

Volatiles Quality Assurance Controls

Run Date: 12/11/18-12/12/18

Calibration Date: 12/11/18

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jan-22	1801036	0.0812	0.0731-0.0893	0.0804 g/100cc
					0.0869 g/100cc
					g/100cc
Level 2	Mar-22	1803028	0.2035	0.1832-0.2238	0.2014 g/100cc
					0.2046 g/100cc
					g/100cc

Multi-Component mixture:	**Exp date: Sept. 2020**		**Lot #**	FN06041502	OK
Curve Fit:		**Column 1**	1.00000	**Column2**	0.99994

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	0.0520	0.0015	0.0512
0.080			0.080	0.072 - 0.088			0	#DIV/0!
0.100	Aug-21	FN08101601	0.100	0.090 - 0.110	0.0998	0.1003	0.0005	0.1
0.200	Dec-19	FN12011401	0.200	0.180 - 0.220	0.1997	0.1976	0.0021	0.1986
0.300	Feb-21	FN02121601	0.300	0.270 - 0.330	0.2997	0.2984	0.0013	0.299
0.400			0.400	0.360 - 0.440			0	#DIV/0!
0.500	Sep-21	FN08031602	0.500	0.450 - 0.550	0.5003	0.5016	0.0013	0.5009

Aqueous Controls

Control level	Expiration	Cerilliant Lot #	Target Value	Acceptable Range	Overall Results
0.080	May-22	FN04171701	0.08000	0.076 - 0.084	0.080 g/100cc

REVIEWED
By Rachel Cutler at 7:10 pm, Dec 12, 2018

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

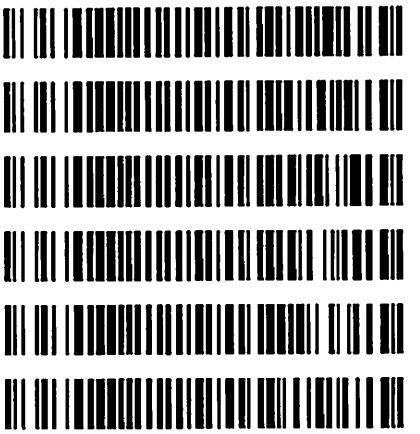
JL

Worklist: 2835

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2018-5815	3	134232	Alcohol Analysis
M2018-5917	1	133125	Alcohol Analysis
M2018-5955	1	133408	Alcohol Analysis
M2018-5956	1	133419	Alcohol Analysis
M2018-5958	1	133421	Alcohol Analysis
M2018-5959	1	133422	Alcohol Analysis
M2018-5960	1	133423	Alcohol Analysis
M2018-5961	1	133424	Alcohol Analysis
M2018-5983	1	133467	Alcohol Analysis
M2018-5987	1	133480	Alcohol Analysis
M2018-5988	1	133481	Alcohol Analysis
M2018-5994	1	133501	Alcohol Analysis
M2018-6005	1	133575	Alcohol Analysis
M2018-6025	1	133600	Alcohol Analysis
M2018-6026	1	133601	Alcohol Analysis
M2018-6044	1	133702	Alcohol Analysis
M2018-6045	1	133709	Alcohol Analysis
M2018-6060	1	133777	Alcohol Analysis
M2018-6061	1	133780	Alcohol Analysis
M2018-6062	1	133788	Alcohol Analysis
M2018-6063	1	133804	Alcohol Analysis
P2018-3281	2	133784	Alcohol Analysis
P2018-3307	1	132784	Alcohol Analysis

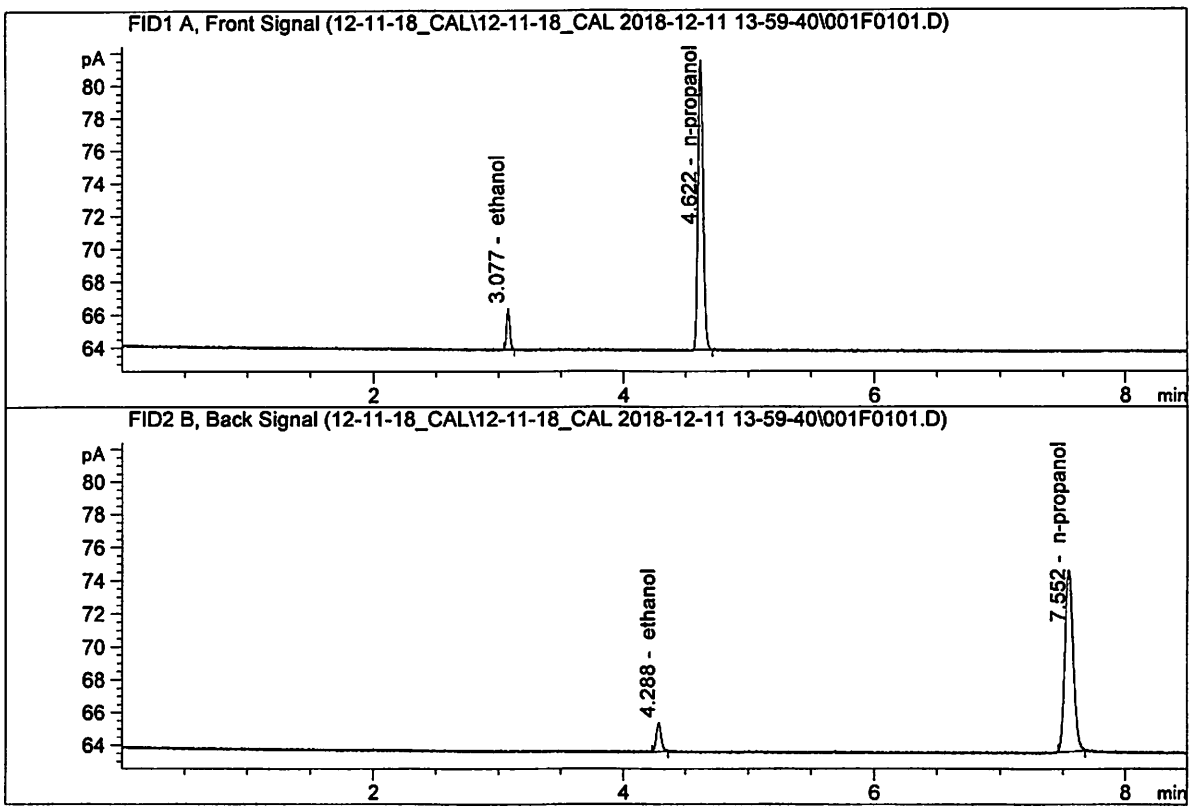
Worklist: 2835

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
P2018-3308	1	132785	Alcohol Analysis
P2018-3310	1	132790	Alcohol Analysis
P2018-3332	1	132855	Alcohol Analysis
P2018-3333	1	132899	Alcohol Analysis
P2018-3341	1	132957	Alcohol Analysis
P2018-3370	1	133186	Alcohol Analysis



ISP Forensic Services Blood Alcohol Report

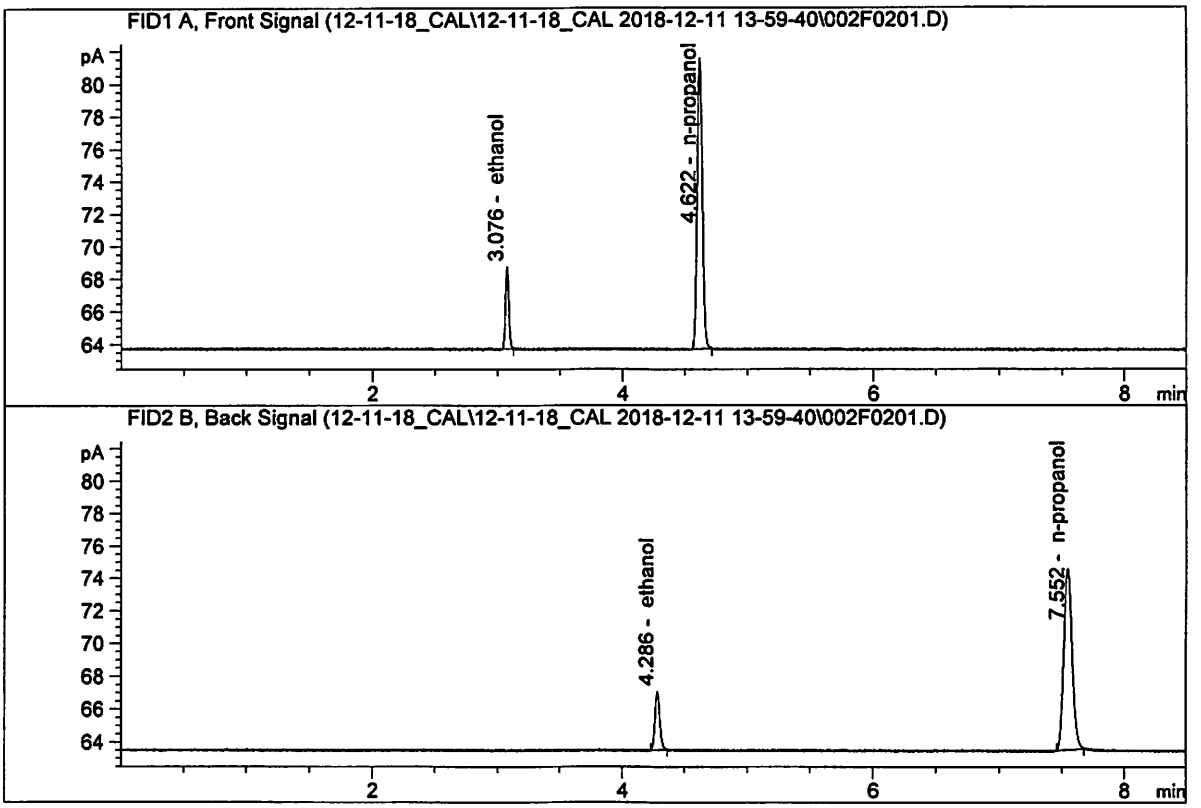
Sample Name : 0.050 FN06231406
Laboratory : Meridian
Injection Date : Dec 11, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	4.51683	0.0505	g/100cc
2.	Ethanol	Column 2:	4.66970	0.0520	g/100cc
3.	n-Propanol	Column 1:	50.11460	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.56495	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.100 FN08101601
Laboratory : Meridian
Injection Date : Dec 11, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	9.16088	0.0998	g/100cc
2.	Ethanol	Column 2:	9.51851	0.1003	g/100cc
3.	n-Propanol	Column 1:	50.70458	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.77800	1.0000	g/100cc

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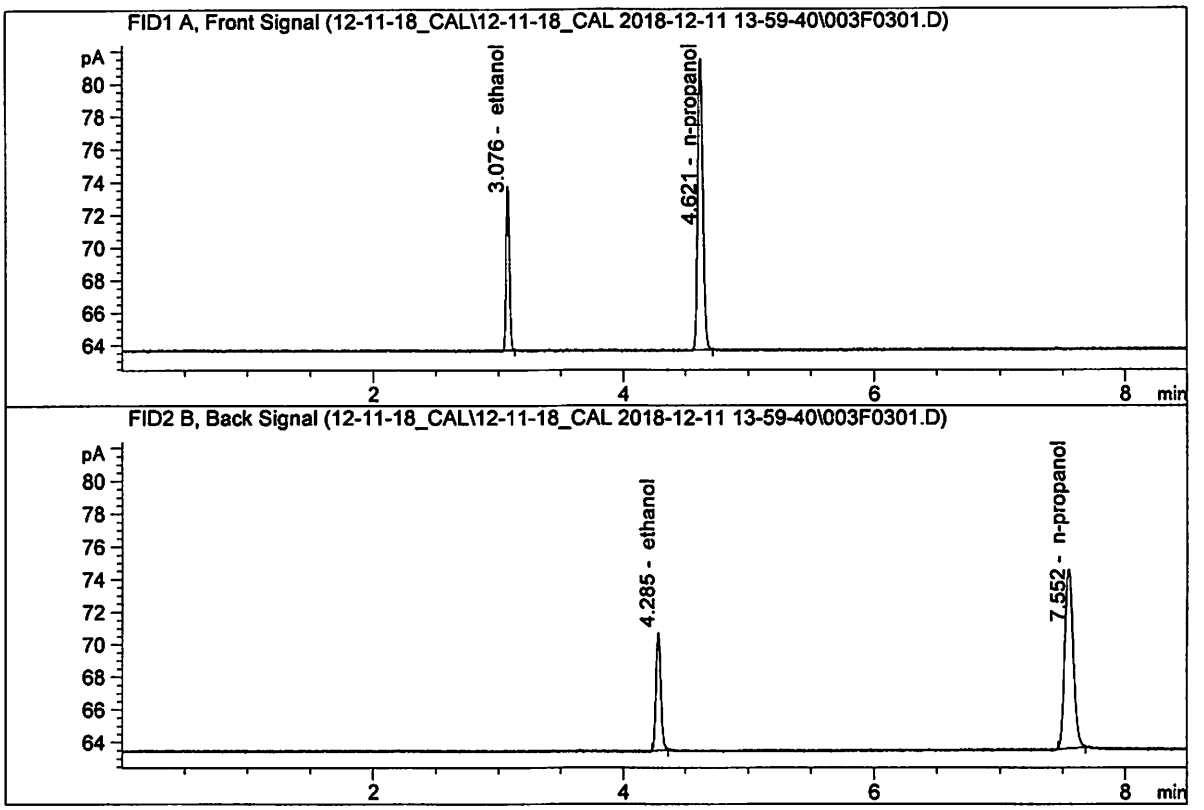
ISP Forensic Services Blood Alcohol Report

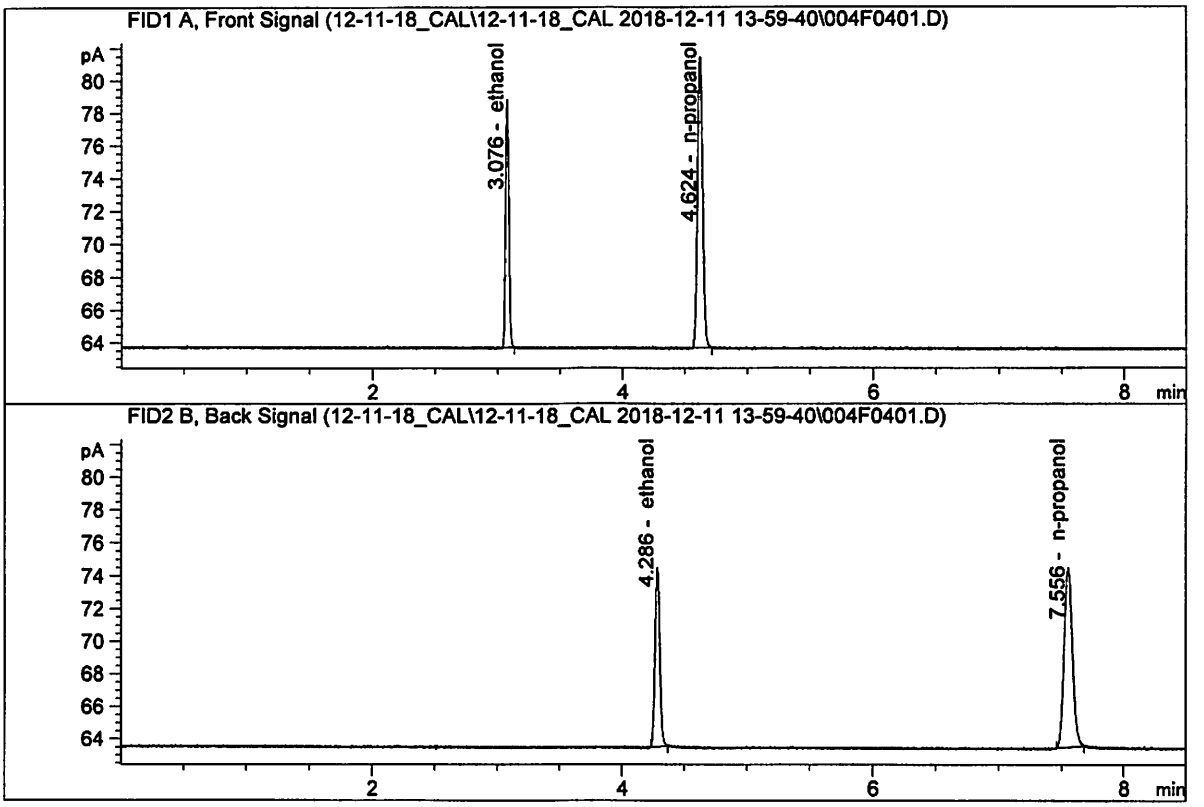
Sample Name : 0.200 FN12011401
Laboratory : Meridian
Injection Date : Dec 11, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.38613	0.1997	g/100cc
2.	Ethanol	Column 2:	19.14837	0.1976	g/100cc
3.	n-Propanol	Column 1:	50.54507	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.49086	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

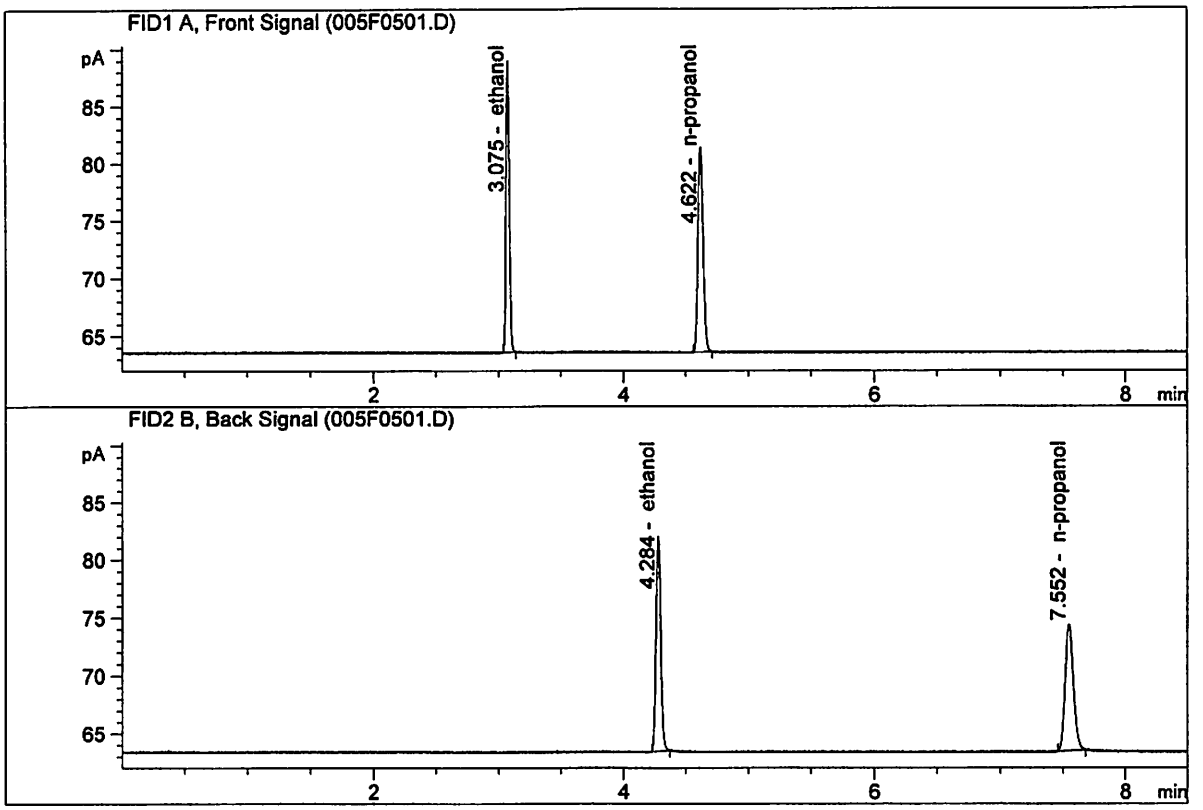
Sample Name : 0.300 FN02121601
Laboratory : Meridian
Injection Date : Dec 11, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	27.62826	0.2997	g/100cc
2.	Ethanol	Column 2:	29.04338	0.2984	g/100cc
3.	n-Propanol	Column 1:	50.49660	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.24192	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

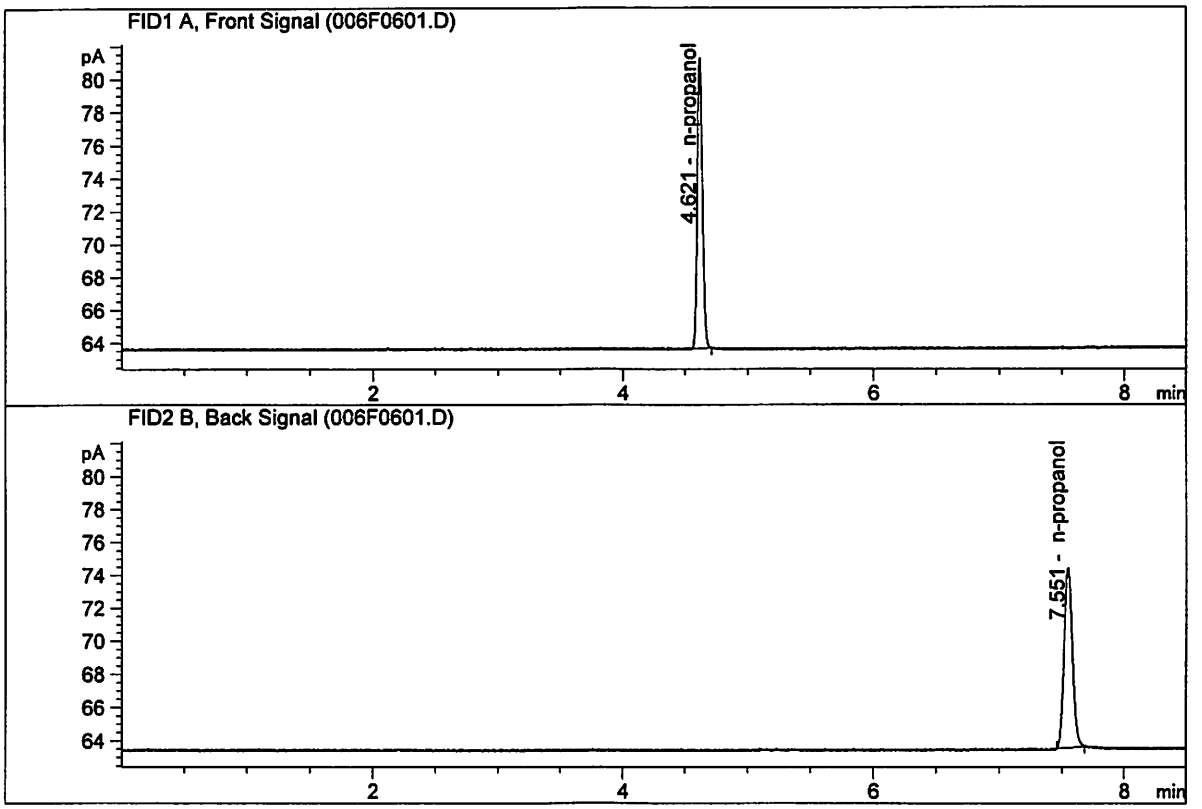
Sample Name : 0.500 FN08031602
Laboratory : Meridian
Injection Date : Dec 11, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	46.18552	0.5003	g/100cc
2.	Ethanol	Column 2:	49.01530	0.5016	g/100cc
3.	n-Propanol	Column 1:	50.48219	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.07859	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STANDARD BLANK
Laboratory : Meridian
Injection Date : Dec 11, 2018
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:	49.96477	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.62820	1.0000	g/100cc

JG

Sequence File C:\Chem32\1\Data\12-11-18_CAL\12-11-18_CAL 2018-12-11 13-59-40\12-11-18_CAL.S

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

Sequence table: C:\Chem32\1\Data\12-11-18_CAL\12-11-18_CAL 2018-12-11 13-59-40\12-11-18_CAL.S
Data directory path: C:\Chem32\1\Data\12-11-18_CAL\12-11-18_CAL 2018-12-11 13-59-40\
Logbook: C:\Chem32\1\Data\12-11-18_CAL\12-11-18_CAL 2018-12-11 13-59-40\12-11-18_CAL.LOG
Sequence start: 12/11/2018 2:14:18 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\12-11-18_CAL\12-11-18_CAL 2018-12-11 13-59-40\ALCOHOL.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
1	1	1	0.050 FN06231406	-	1.0000	001F0101.D	*	4
2	2	1	0.100 FN08101601	-	1.0000	002F0201.D	*	4
3	3	1	0.200 FN12011401	-	1.0000	003F0301.D	*	4
4	4	1	0.300 FN02121601	-	1.0000	004F0401.D	*	4
5	5	1	0.500 FN08031602	-	1.0000	005F0501.D	*	4
6	6	1	INTERNAL STANDAR	-	1.0000	006F0601.D		2

JC

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

Calibration Table

General Calibration Setting

Calib. Data Modified : Tuesday, December 11, 2018 3:04:51 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

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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	4.51683	1.10697e-2	No	No	1	ethanol
		2	1.00000e-1	9.16088	1.09160e-2				
		3	2.00000e-1	18.38613	1.08778e-2				
		4	3.00000e-1	27.62826	1.08584e-2				
		5	5.00000e-1	46.18552	1.08259e-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	4.66970	1.07073e-2	No	No	2	ethanol
		2	1.00000e-1	9.51851	1.05058e-2				
		3	2.00000e-1	19.14837	1.04448e-2				
		4	3.00000e-1	29.04338	1.03294e-2				
		5	5.00000e-1	49.01530	1.02009e-2				
4.308	1	1	1.00000	6.49940	1.53860e-1	No	No	1	acetone
4.620	1	1	1.00000	50.11460	1.99543e-2	No	Yes	1	n-propanol
		2	1.00000	50.70458	1.97221e-2				
		3	1.00000	50.54507	1.97843e-2				
		4	1.00000	50.49660	1.98033e-2				
		5	1.00000	50.48219	1.98090e-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	52.56495	1.90241e-2	No	Yes	2	n-propanol
		2	1.00000	52.77800	1.89473e-2				
		3	1.00000	52.49086	1.90509e-2				
		4	1.00000	52.24192	1.91417e-2				
		5	1.00000	52.07859	1.92017e-2				

Peak Sum Table

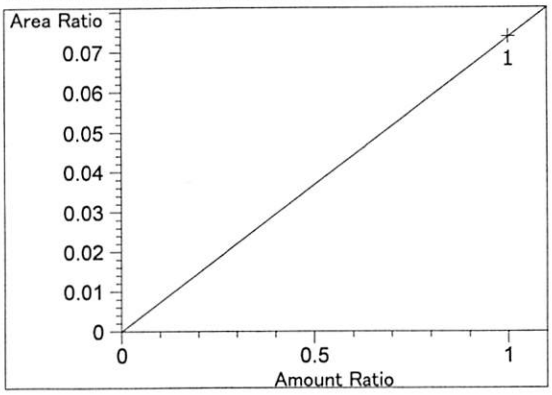
No Entries in table

61 Warnings or Errors (10 first messages follow) :

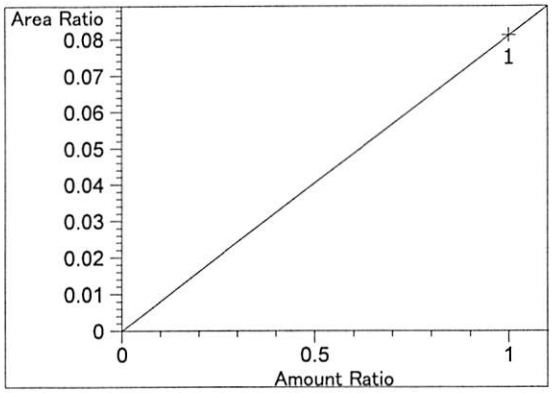
Warning : Curve requires more calibration points., (methanol)
Warning : Curve requires more calibration points. at 2.586 min, signal 1
Warning : Curve requires more calibration points. at 2.809 min, signal 1
Warning : Curve requires more calibration points. at 2.977 min, signal 2
Warning : Curve requires more calibration points. at 3.388 min, signal 2
Warning : Curve requires more calibration points. at 3.628 min, signal 1
Warning : Curve requires more calibration points. at 4.308 min, signal 1
Warning : Curve requires more calibration points. at 4.62 min, signal 1
Warning : Curve requires more calibration points. at 4.661 min, signal 2
Warning : Curve requires more calibration points. at 4.969 min, signal 2

JC

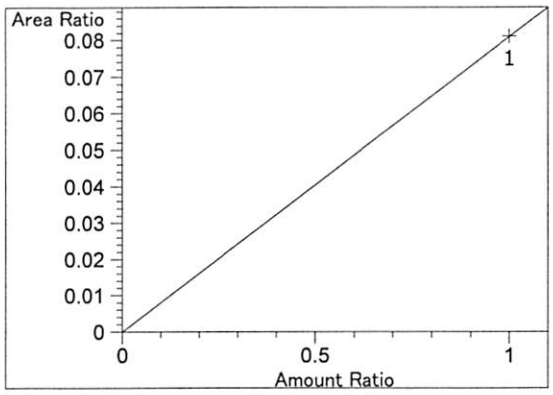
Calibration Curves



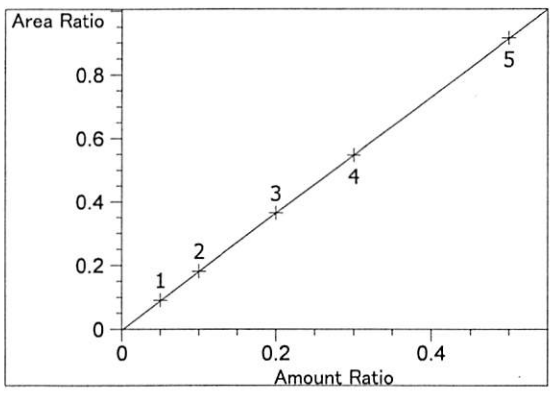
methanol at exp. RT: 2.586
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 7.37648e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



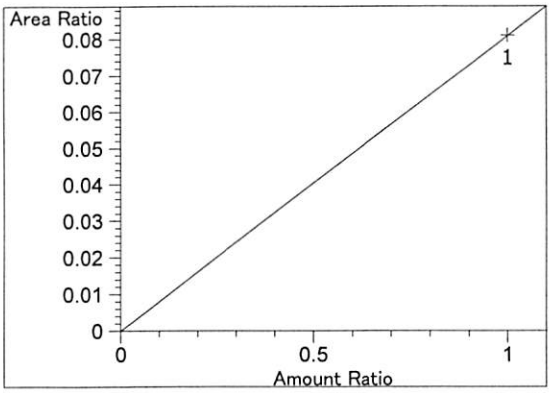
Acetaldehyde at exp. RT: 2.809
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.10616e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



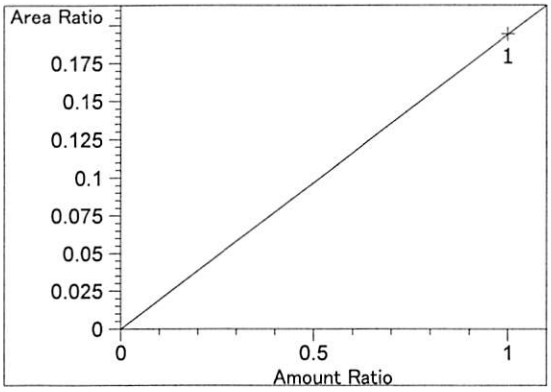
Acetaldehyde at exp. RT: 2.977
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.10616e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



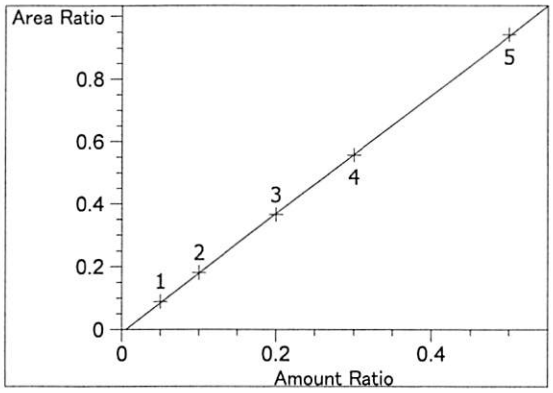
ethanol at exp. RT: 3.075
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00074
Formula: y = mx + b
m: 1.83356
b: -2.40276e-3
x: Amount Ratio
y: Area Ratio



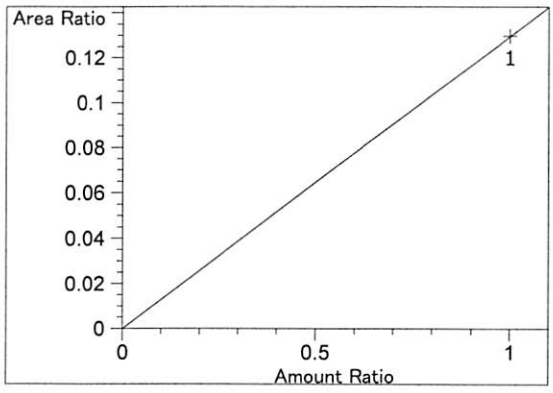
methanol at exp. RT: 3.388
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.10545e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



isopropyl alcohol at exp. RT: 3.628
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.94166e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



ethanol at exp. RT: 4.285
FID2 B, Back Signal
Correlation: 0.99994
Residual Std. Dev.: 0.00426
Formula: y = mx + b
m: 1.89574
b: -9.79940e-3
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: 1.29691e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

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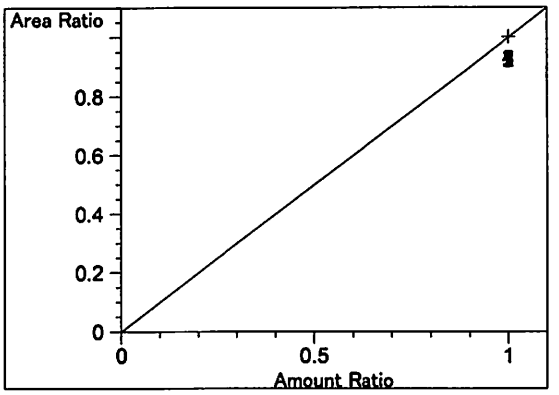
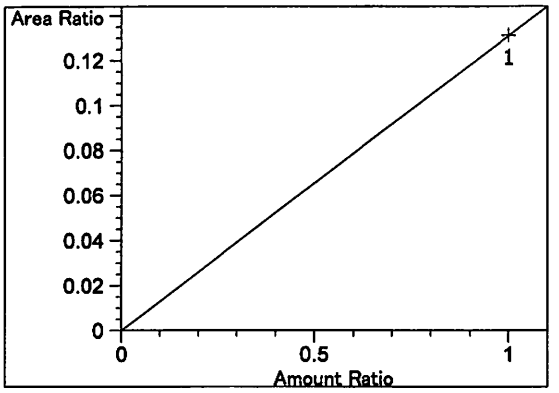
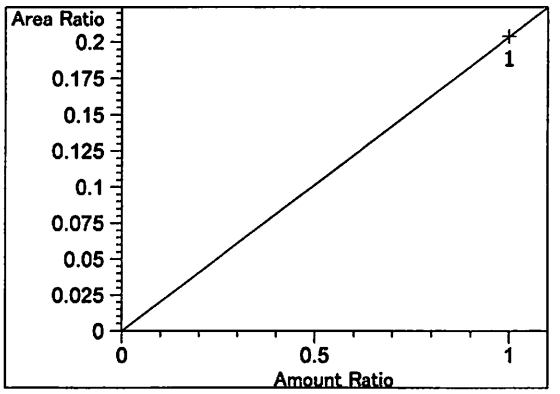


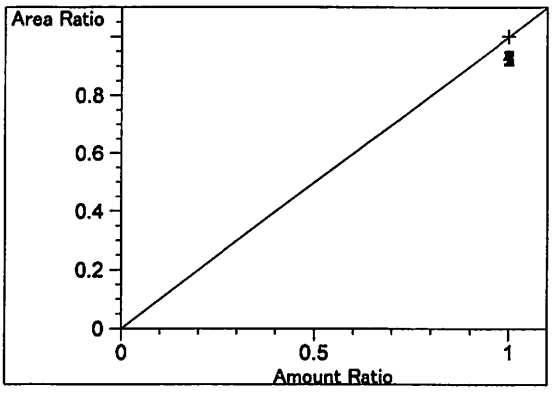
n-propanol at exp. RT: 4.620
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio



acetone at exp. RT: 4.661
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.31133e-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: 2.03680e-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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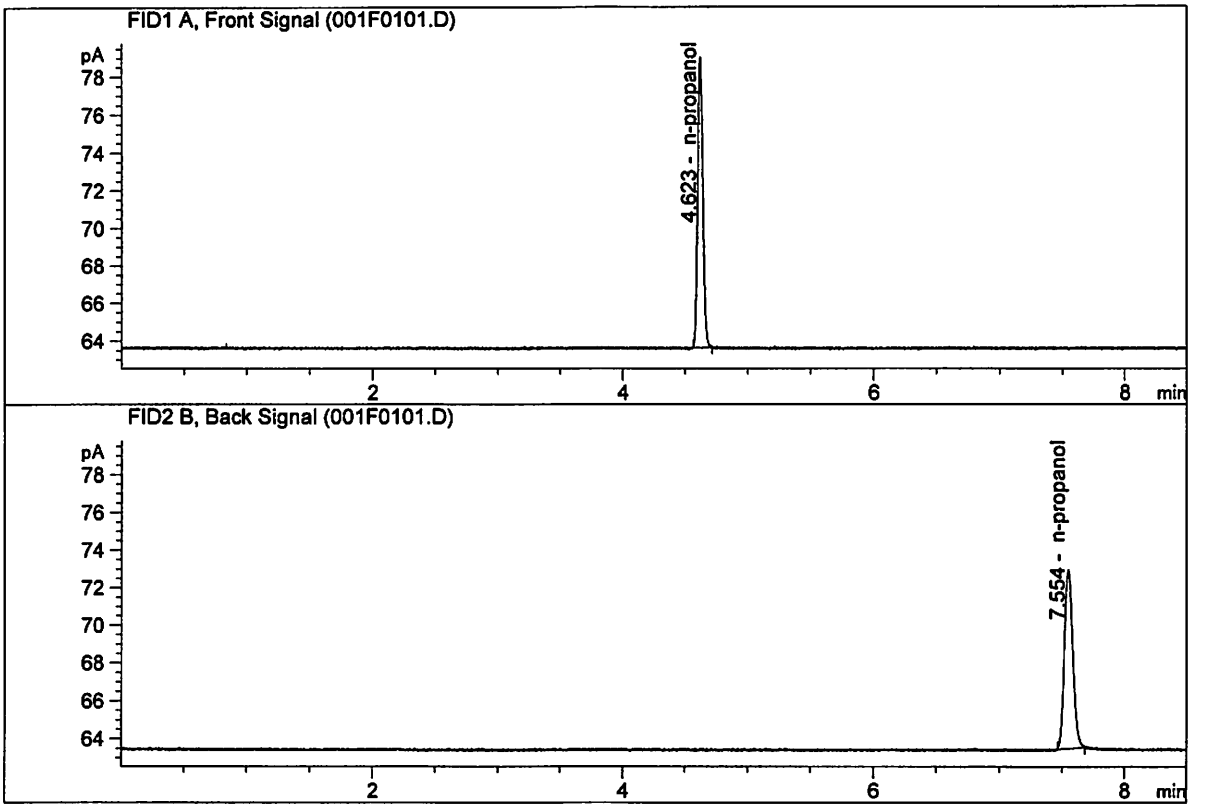
ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Dec 11, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

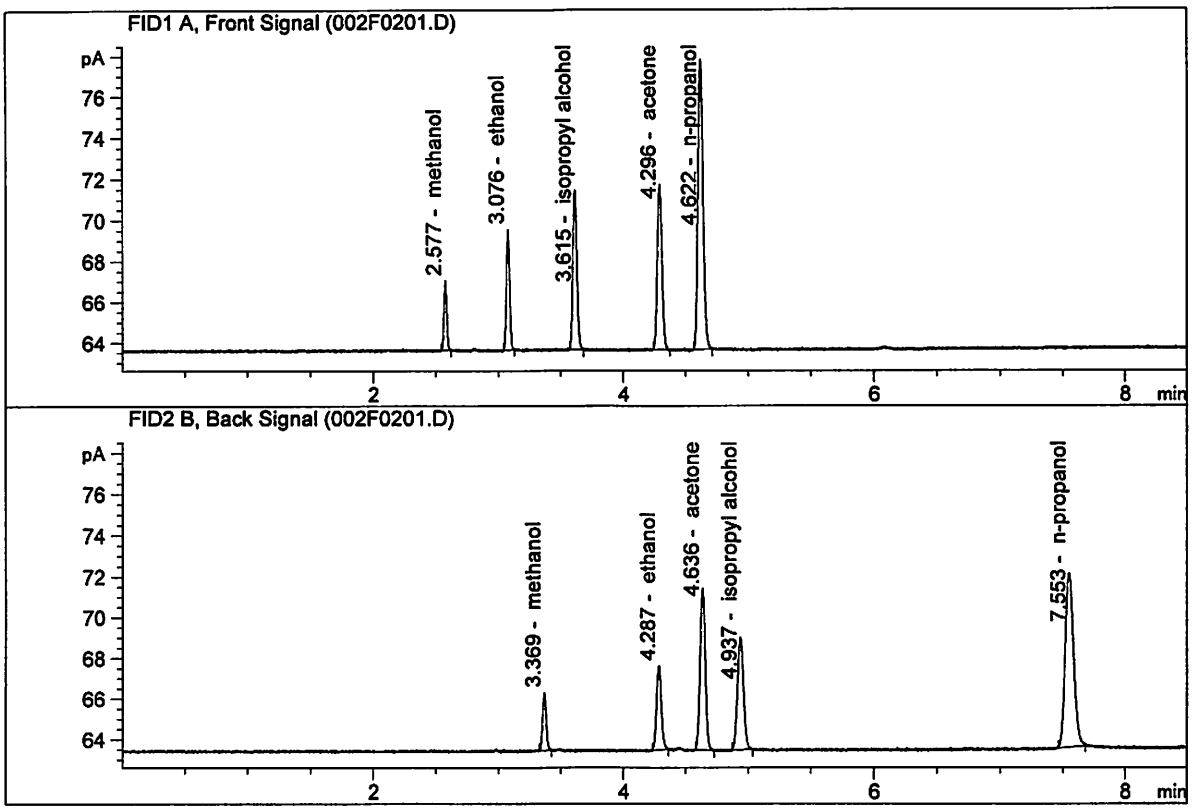


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	43.61349	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.03731	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN06041502
Laboratory : Meridian
Injection Date : Dec 11, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.53064	0.1454	g/100cc
2.	Ethanol	Column 2:	10.92680	0.1463	g/100cc
3.	n-Propanol	Column 1:	39.84533	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.85156	1.0000	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 11 Dec 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0806	0.0810	0.0004	0.0808	0.0804
(g/100cc)	0.0801	0.0802	0.0001	0.0801	

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: ALCOHOL.M
Hamilton Auto-Dilutor Serial Number: ML600HC11378

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

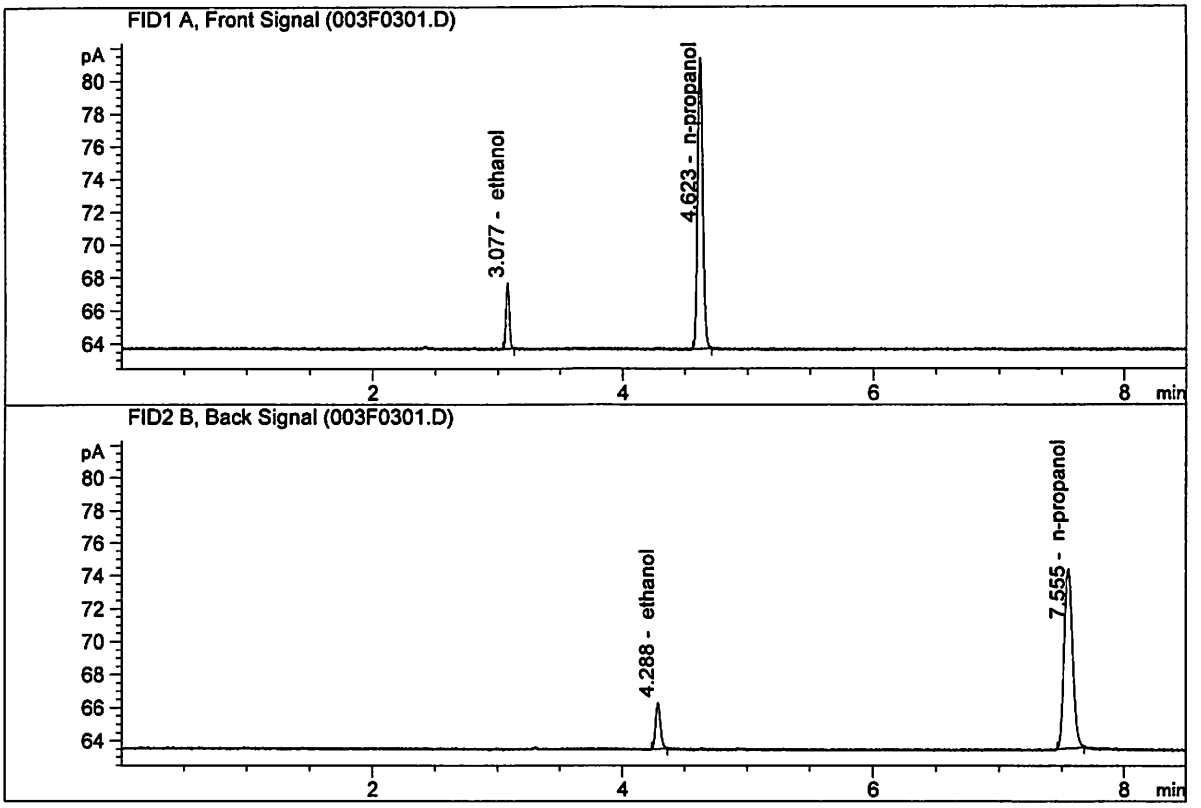
Reported Result

0.080

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

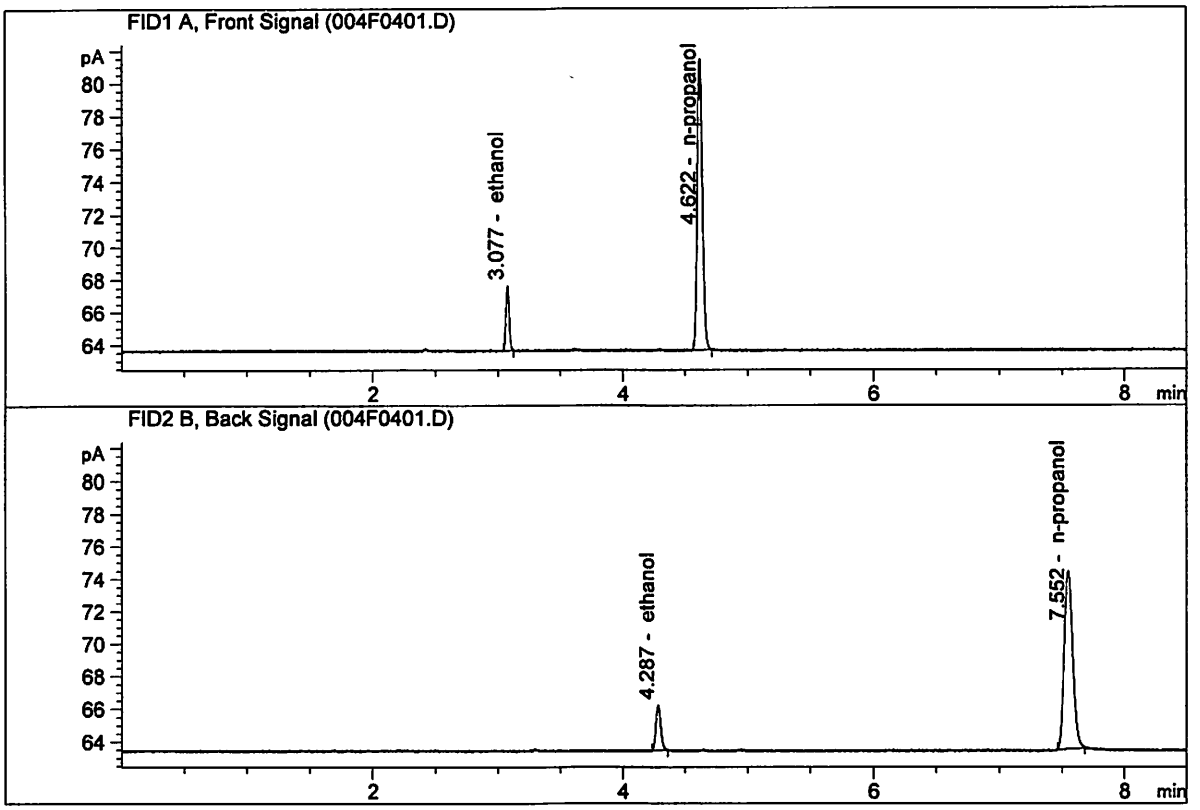
Sample Name : QC1-1-A
Laboratory : Meridian
Injection Date : Dec 11, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.30552	0.0806	g/100cc
2.	Ethanol	Column 2:	7.44102	0.0810	g/100cc
3.	n-Propanol	Column 1:	50.27646	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.76587	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
Laboratory : Meridian
Injection Date : Dec 11, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.30554	0.0801	g/100cc
2.	Ethanol	Column 2:	7.40059	0.0802	g/100cc
3.	n-Propanol	Column 1:	50.59834	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.01742	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN04171701 **Analysis Date(s): 11 Dec 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0804	0.0802	0.0002	0.0803	0.0807	
(g/100cc)	0.0813	0.0810	0.0003	0.0811		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: ALCOHOL.M
Hamilton Auto-Dilutor Serial Number: ML600HC11378

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

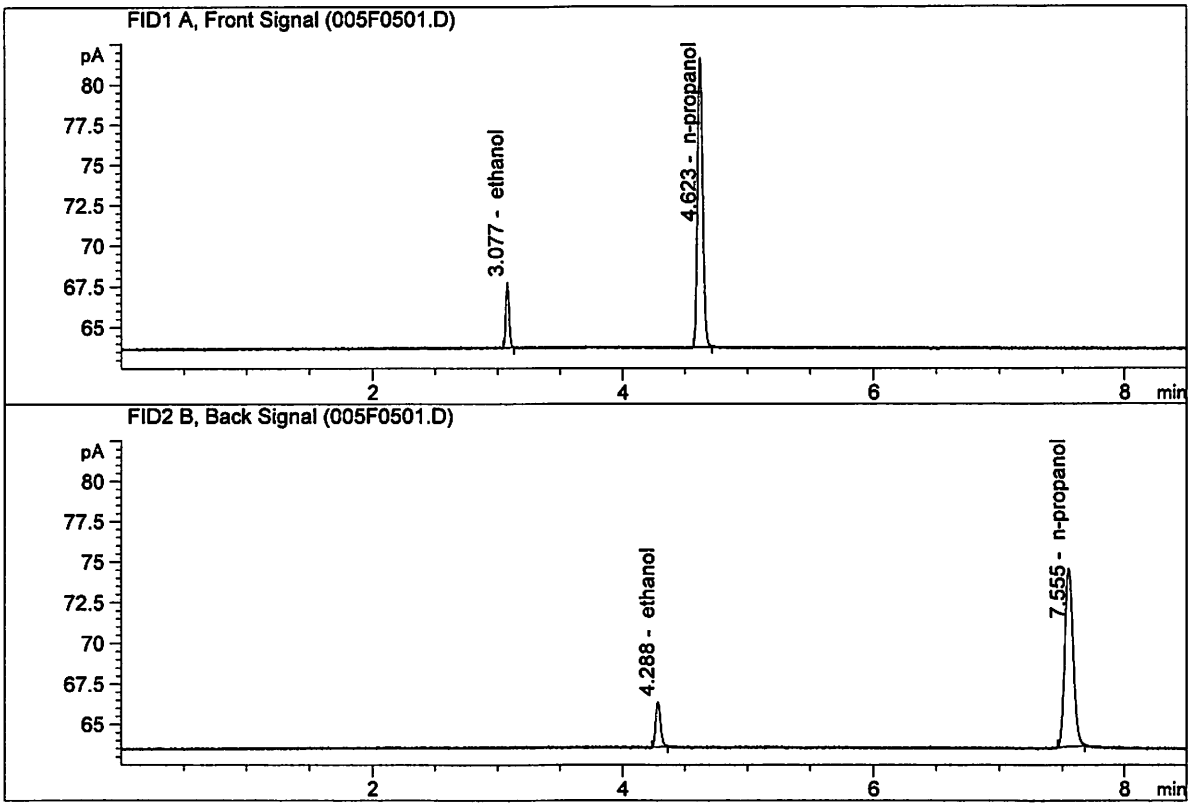
0.080

Calibration and control data are stored centrally.

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-A
Laboratory : Meridian
Injection Date : Dec 11, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

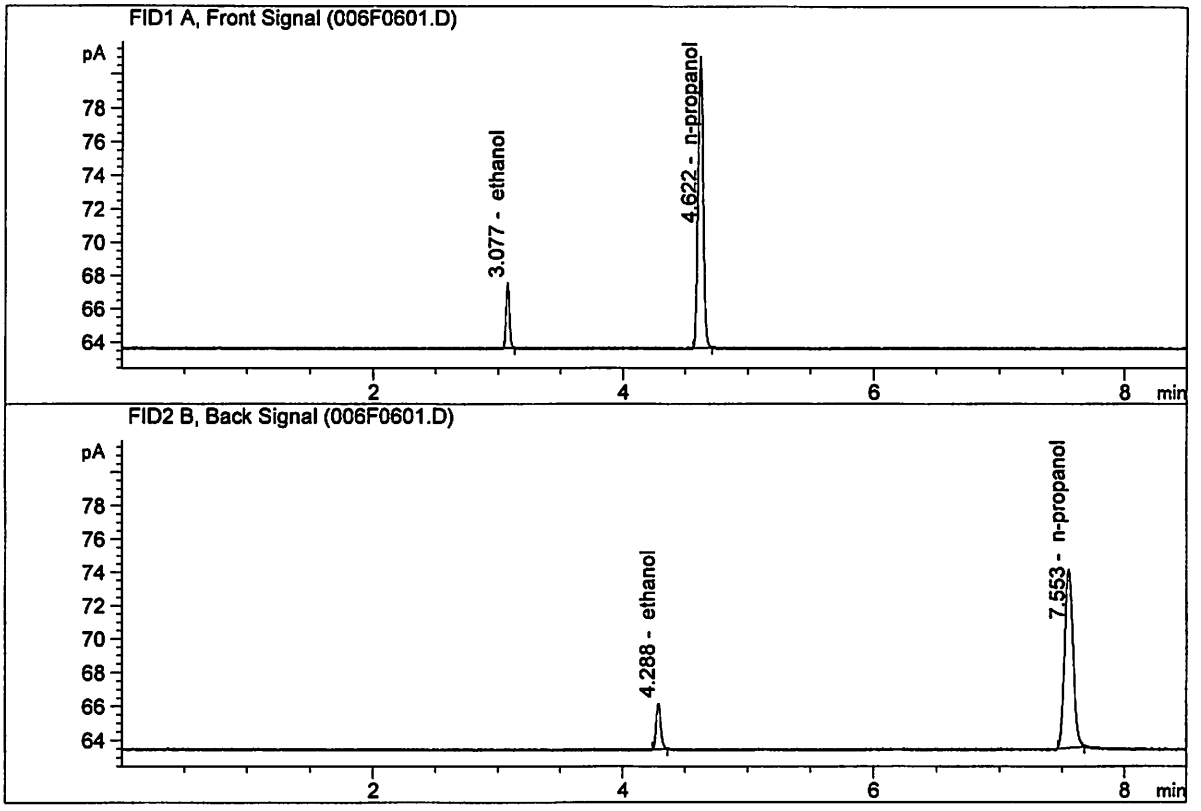


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.37577	0.0804	g/100cc
2.	Ethanol	Column 2:	7.43290	0.0802	g/100cc
3.	n-Propanol	Column 1:	50.84544	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.27395	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-B
Laboratory : Meridian
Injection Date : Dec 11, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.22380	0.0813	g/100cc
2.	Ethanol	Column 2:	7.28329	0.0810	g/100cc
3.	n-Propanol	Column 1:	49.25043	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.63509	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 11 Dec 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2012	0.2013	0.0001	0.2012	0.2014	
(g/100cc)	0.2024	0.2007	0.0017	0.2015		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: ALCOHOL.M
Hamilton Auto-Dilutor Serial Number: ML600HC11378

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.201	**0.190**	**0.212**	**0.011**

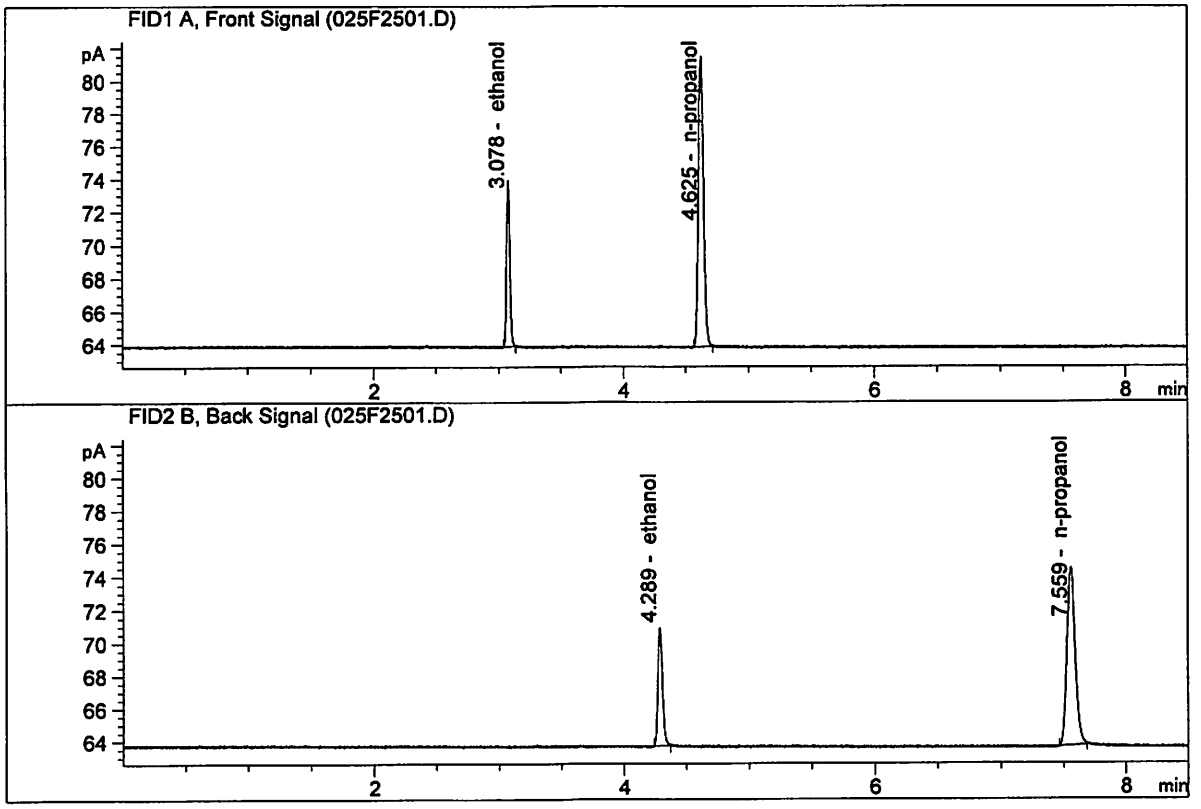
Reported Result

0.201

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A
Laboratory : Meridian
Injection Date : Dec 11, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

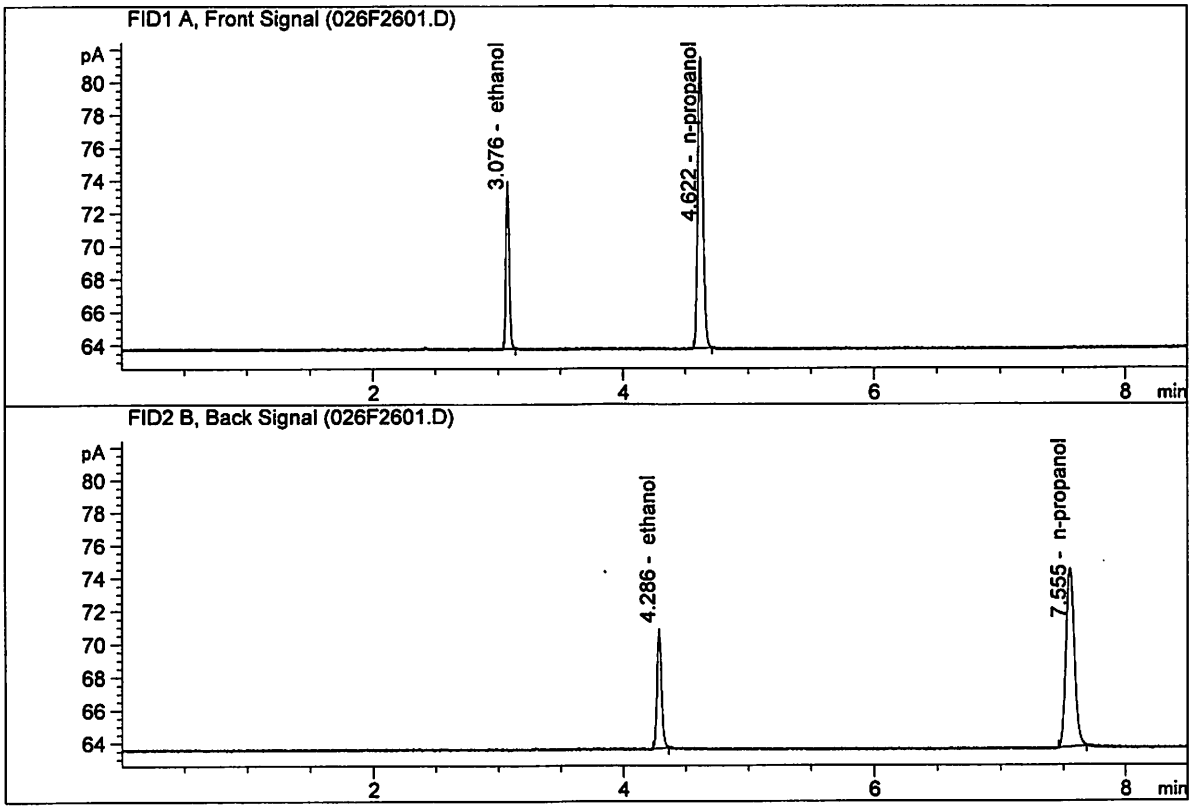


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.42398	0.2012	g/100cc
2.	Ethanol	Column 2:	19.18984	0.2013	g/100cc
3.	n-Propanol	Column 1:	50.25730	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.62061	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
Laboratory : Meridian
Injection Date : Dec 11, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.59929	0.2024	g/100cc
2.	Ethanol	Column 2:	19.22455	0.2007	g/100cc
3.	n-Propanol	Column 1:	50.45006	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.87365	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: ~~QC2-2~~ QC1-2 JG **Analysis Date(s): 12 Dec 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0869	0.0872	0.0003	0.0870	0.0869	
(g/100cc)	0.0866	0.0872	0.0006	0.0869		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: ALCOHOL.M
Hamilton Auto-Dilutor Serial Number: ML600HC11378

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.086	**0.081**	**0.091**	**0.005**

	Reported Result	
	0.086	

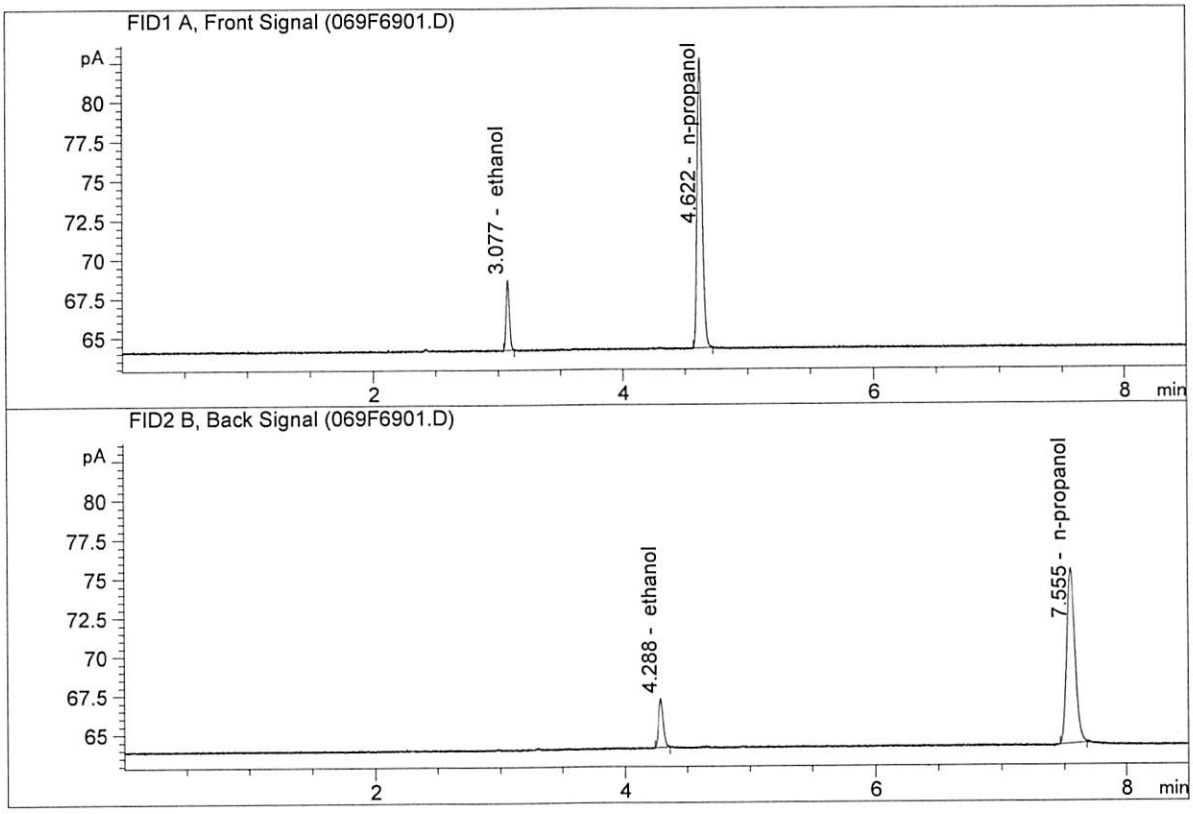
Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

QC-1-2-A

Sample Name : ~~QC2-2-A~~ JG
Laboratory : Meridian
Injection Date : Dec 12, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



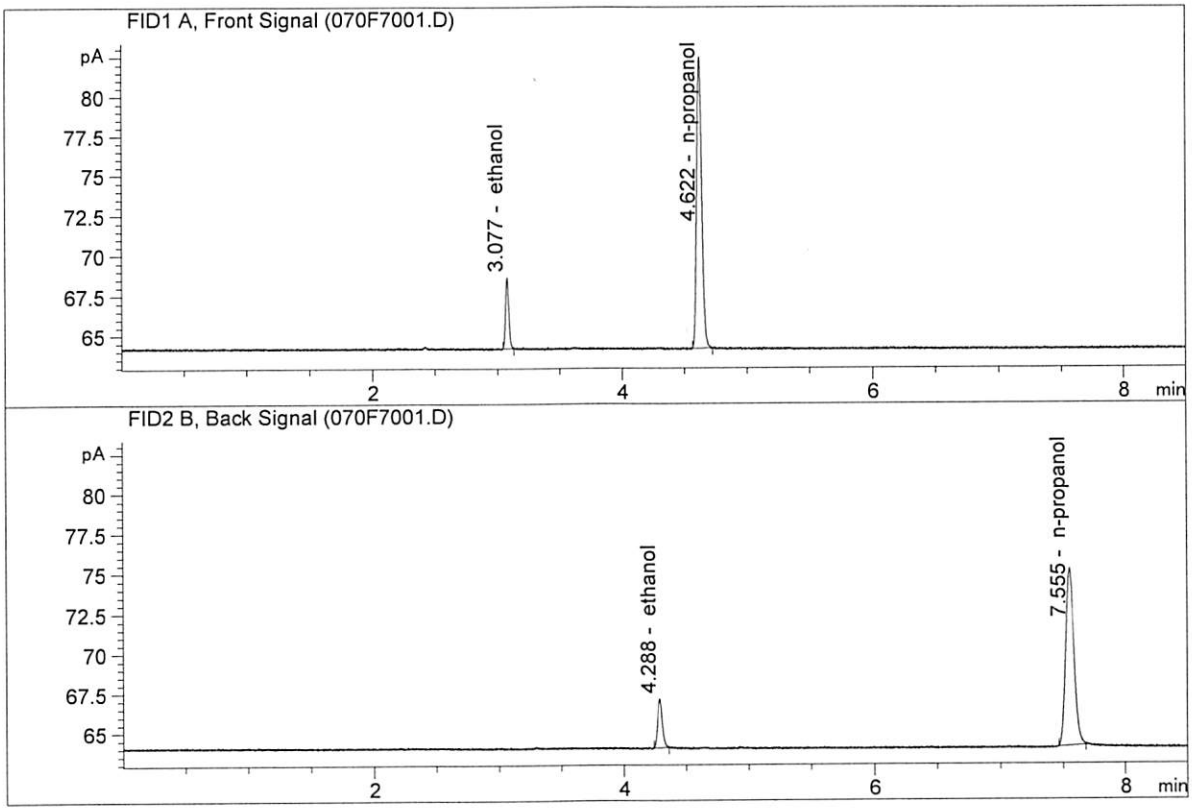
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.20600	0.0869	g/100cc
2.	Ethanol	Column 2:	8.30464	0.0872	g/100cc
3.	n-Propanol	Column 1:	52.28993	1.0000	g/100cc
4.	n-Propanol	Column 2:	53.38423	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

QC1-2-B

Sample Name : ~~QC2-2-B~~ JG
Laboratory : Meridian
Injection Date : Dec 12, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.12832	0.0866	g/100cc
2.	Ethanol	Column 2:	8.22884	0.0872	g/100cc
3.	n-Propanol	Column 1:	51.95936	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.94055	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: ~~QC1-2~~ QC 2-2 JG **Analysis Date(s): 11 Dec 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2049	0.2051	0.0002	0.2050	0.2046	
(g/100cc)	0.2048	0.2037	0.0011	0.2042		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: ALCOHOL.M
Hamilton Auto-Dilutor Serial Number: ML600HC11378

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.204	**0.193**	**0.215**	**0.011**

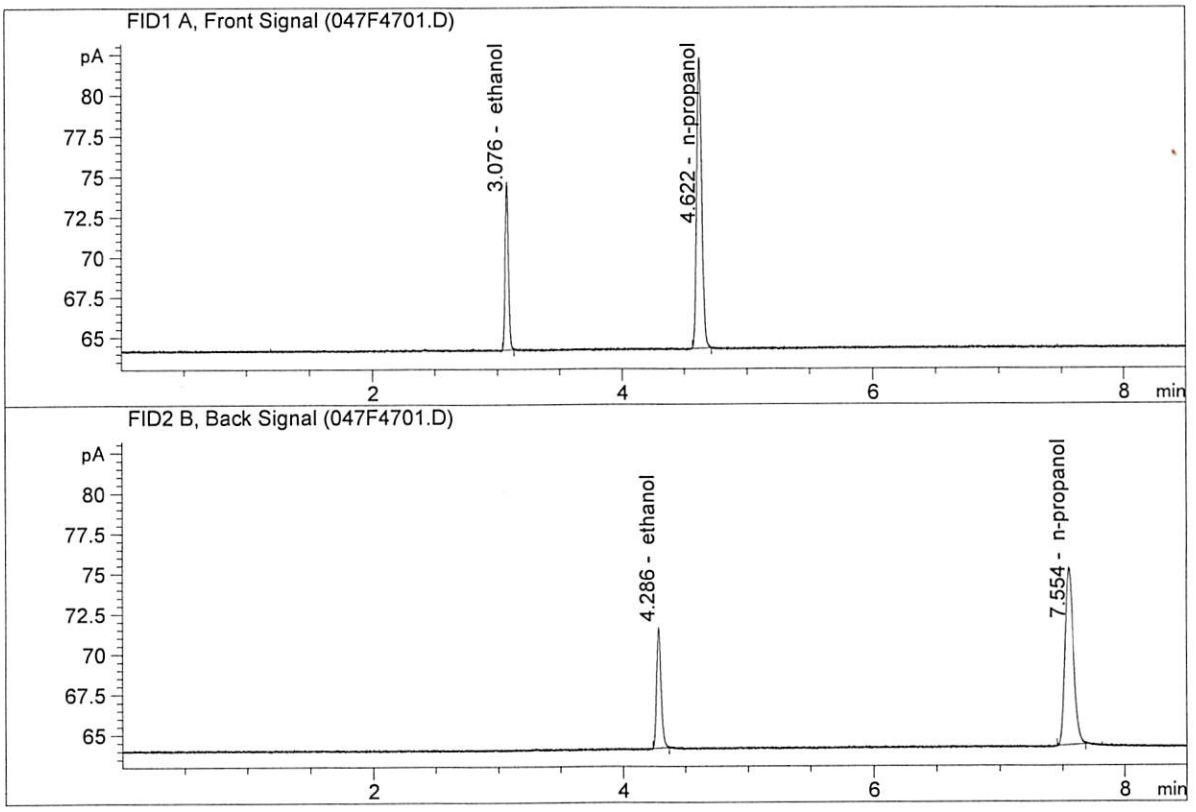
	Reported Result	
	0.204	

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : ~~QC1-2-A~~ QC-2-2-A JC
Laboratory : Meridian
Injection Date : Dec 11, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



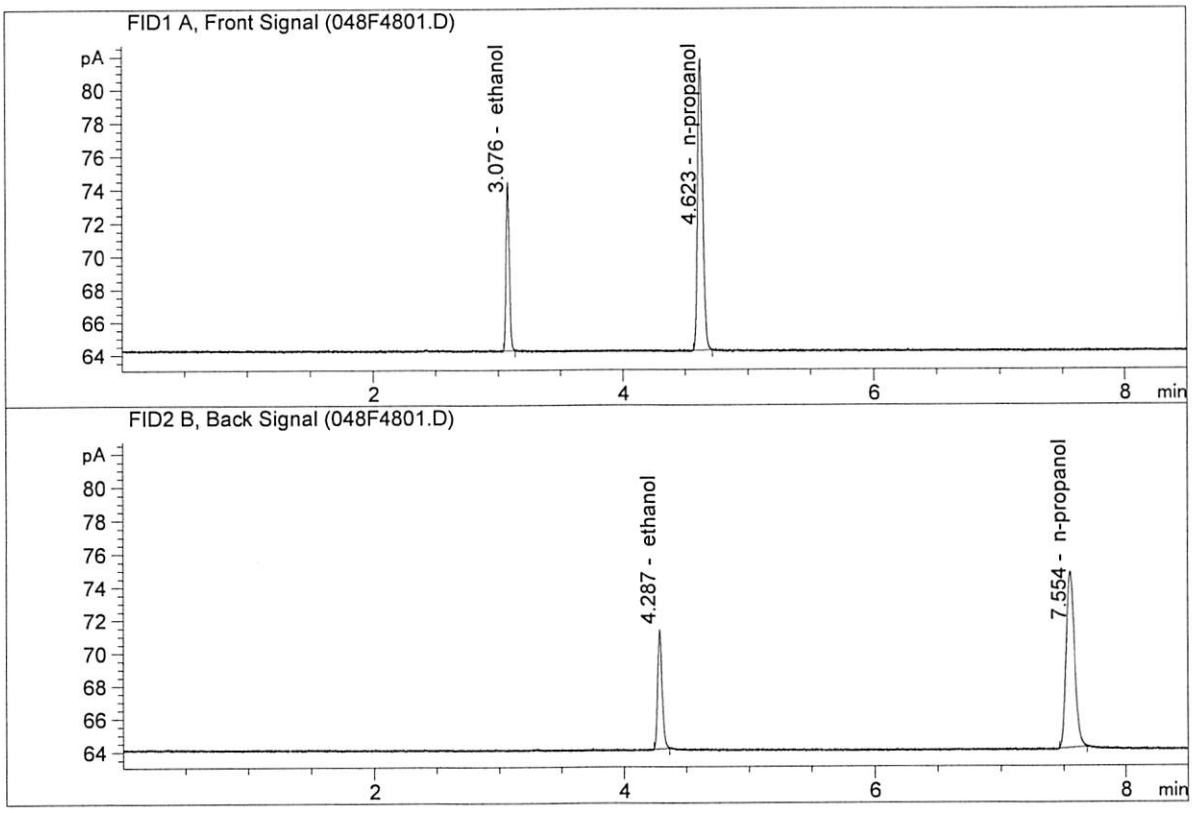
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.09749	0.2049	g/100cc
2.	Ethanol	Column 2:	19.85040	0.2051	g/100cc
3.	n-Propanol	Column 1:	51.15067	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.37576	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

QC2-2-B

Sample Name : ~~QC1-2-B~~ JG
Laboratory : Meridian
Injection Date : Dec 12, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

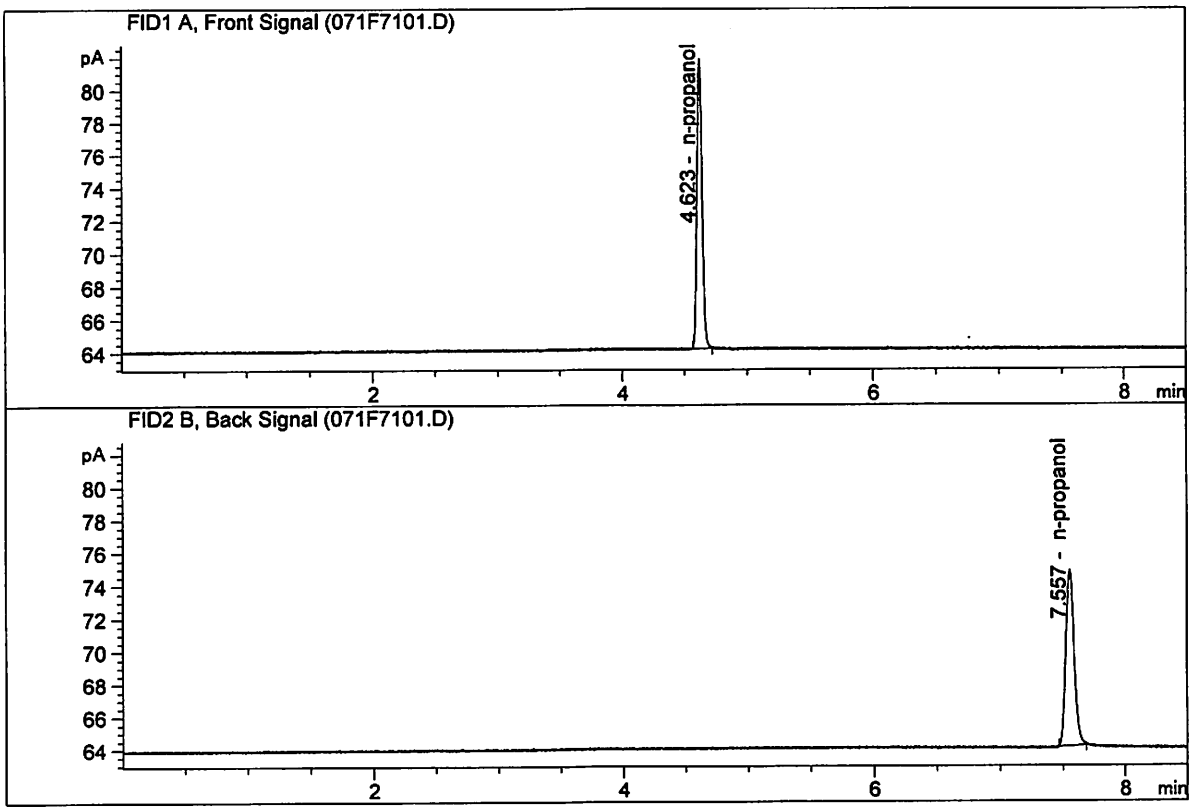


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.64239	0.2048	g/100cc
2.	Ethanol	Column 2:	19.25765	0.2037	g/100cc
3.	n-Propanol	Column 1:	49.97160	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.17344	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Dec 12, 2018
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:	50.20108	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.22251	1.0000	g/100cc

Sample Summary

Sequence table: C:\Chem32\1\Data\12-11-18_SAMPLES\12-11-18_SAMPLES 2018-12-11 15-34-54\12 11-18_SAMPLES.S
Data directory path: C:\Chem32\1\Data\12-11-18_SAMPLES\12-11-18_SAMPLES 2018-12-11 15-34-54\
Logbook: C:\Chem32\1\Data\12-11-18_SAMPLES\12-11-18_SAMPLES 2018-12-11 15-34-54\12 11-18_SAMPLES.LOG
Sequence start: 12/11/2018 3:49:43 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\12-11-18_SAMPLES\12-11-18_SAMPLES 2018-12-11 15-34-54 \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 FN060415	-	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 FN04171701-	-	1.0000	005F0501.D		4
6	6	1	0.08 FN04171701-	-	1.0000	006F0601.D		4
7	7	1	M2018-5815-3-A	-	1.0000	007F0701.D		2
8	8	1	M2018-5815-3-B	-	1.0000	008F0801.D		2
9	9	1	M2018-5917-1-A	-	1.0000	009F0901.D		4
10	10	1	M2018-5917-1-B	-	1.0000	010F1001.D		4
11	11	1	M2018-5955-1-A	-	1.0000	011F1101.D		2
12	12	1	M2018-5955-1-B	-	1.0000	012F1201.D		2
13	13	1	M2018-5956-1-A	-	1.0000	013F1301.D		4
14	14	1	M2018-5956-1-B	-	1.0000	014F1401.D		4
15	15	1	M2018-5958-1-A	-	1.0000	015F1501.D		4
16	16	1	M2018-5958-1-B	-	1.0000	016F1601.D		4
17	17	1	M2018-5959-1-A	-	1.0000	017F1701.D		4
18	18	1	M2018-5959-1-B	-	1.0000	018F1801.D		4
19	19	1	M2018-5960-1-A	-	1.0000	019F1901.D		4
20	20	1	M2018-5960-1-B	-	1.0000	020F2001.D		4
21	21	1	M2018-5961-1-A	-	1.0000	021F2101.D		4
22	22	1	M2018-5961-1-B	-	1.0000	022F2201.D		4
23	23	1	M2018-5983-1-A	-	1.0000	023F2301.D		4
24	24	1	M2018-5983-1-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	M2018-5987-1-A	-	1.0000	027F2701.D		4
28	28	1	M2018-5987-1-B	-	1.0000	028F2801.D		4
29	29	1	M2018-5988-1-A	-	1.0000	029F2901.D		4
30	30	1	M2018-5988-1-B	-	1.0000	030F3001.D		4
31	31	1	M2018-5994-1-A	-	1.0000	031F3101.D		2
32	32	1	M2018-5994-1-B	-	1.0000	032F3201.D		2
33	33	1	M2018-6005-1-A	-	1.0000	033F3301.D		4
34	34	1	M2018-6005-1-B	-	1.0000	034F3401.D		4
35	35	1	M2018-6025-1-A	-	1.0000	035F3501.D		6
36	36	1	M2018-6025-1-B	-	1.0000	036F3601.D		6
37	37	1	M2018-6026-1-A	-	1.0000	037F3701.D		2
38	38	1	M2018-6026-1-B	-	1.0000	038F3801.D		2
39	39	1	M2018-6044-1-A	-	1.0000	039F3901.D		2
40	40	1	M2018-6044-1-B	-	1.0000	040F4001.D		2
41	41	1	M2018-6045-1-A	-	1.0000	041F4101.D		4
42	42	1	M2018-6045-1-B	-	1.0000	042F4201.D		4
43	43	1	M2018-6060-1-A	-	1.0000	043F4301.D		5

Sequence File C:\Chem32\...8_SAMPLES\12-11-18_SAMPLES 2018-12-11 15-34-54\12-11-18_SAMPLES.S

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
44	44	1	M2018-6060-1-B	-	1.0000	044F4401.D	4
45	45	1	M2018-6061-1-A	-	1.0000	045F4501.D	4
46	46	1	M2018-6061-1-B	-	1.0000	046F4601.D	4
47	47	1	~~QC1-2-A~~ QC 2-2-A	-	1.0000	047F4701.D	4
48	48	1	~~QC1-2-B~~ QC-2-2-B	-	1.0000	048F4801.D	4
49	49	1	M2018-6062-1-A	-	1.0000	049F4901.D	4
50	50	1	M2018-6062-1-B	-	1.0000	050F5001.D	4
51	51	1	M2018-6063-1-A	-	1.0000	051F5101.D	4
52	52	1	M2018-6063-1-B	-	1.0000	052F5201.D	4
53	53	1	P2018-3281-2-A	-	1.0000	053F5301.D	4
54	54	1	P2018-3281-2-B	-	1.0000	054F5401.D	4
55	55	1	P2018-3307-1-A	-	1.0000	055F5501.D	4
56	56	1	P2018-3307-1-B	-	1.0000	056F5601.D	4
57	57	1	P2018-3308-1-A	-	1.0000	057F5701.D	4
58	58	1	P2018-3308-1-B	-	1.0000	058F5801.D	4
59	59	1	P2018-3310-1-A	-	1.0000	059F5901.D	2
60	60	1	P2018-3310-1-B	-	1.0000	060F6001.D	2
61	61	1	P2018-3332-1-A	-	1.0000	061F6101.D	4
62	62	1	P2018-3332-1-B	-	1.0000	062F6201.D	4
63	63	1	P2018-3333-1-A	-	1.0000	063F6301.D	4
64	64	1	P2018-3333-1-B	-	1.0000	064F6401.D	4
65	65	1	P2018-3341-1-A	-	1.0000	065F6501.D	2
66	66	1	P2018-3341-1-B	-	1.0000	066F6601.D	2
67	67	1	P2018-3370-1-A	-	1.0000	067F6701.D	4
68	68	1	P2018-3370-1-B	-	1.0000	068F6801.D	4
69	69	1	~~QC2-2-A~~ JG QC1-2-A	-	1.0000	069F6901.D	4
70	70	1	~~QC2-2-B~~ JG QC1-2-B	-	1.0000	070F7001.D	4
71	71	1	INTERNAL STD BLK	-	1.0000	071F7101.D	2

Method file name: C:\Chem32\1\Data\12-11-18_SAMPLES\12-11-18_SAMPLES 2018-12-11 15-34-54\SHUTDOWN.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
72	72	1	EMPTY	-	1.0000	072F7201.D	0