Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

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

Volatiles Quality Assurance Controls **Run Date(s): 08/20/2019**

Calibration Date 08/19/2019

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jan-22	1801036	0.0812	0.0731-0.0893	0.0785 g/100cc
					0.0787 g/100cc
					g/100cc
Level 2	Mar-22	1803028	0.2035	0.1832-0.2238	0.2078 g/100cc
					0.2089 g/100cc
					g/100cc

Multi-Component mixture:		**Lot #**	FN06041502		OK
Curve Fit:	**Column 1**	1.00000	**Column2**	0.99996	

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0503	0.0518	0.0015	0.051
100	0.100	0.090 - 0.110	0.0997	0.0999	0.0002	0.0998
200	0.200	0.180 - 0.220	0.2000	0.1984	0.0016	0.1992
300	0.300	0.270 - 0.330	0.2999	0.2985	0.0014	0.2992
500	0.500	0.450 - 0.550	0.5001	0.5014	0.0013	0.5007

Aqueous Controls

Control level	Target Value	Acceptable Range	Overall Results
80	0.080	0.076 - 0.084	0.081 g/100cc

APPROVED
By John Garner at 11:29 am, Aug 21, 2019

Revision: 1
Issue Date: 01/03/2019
Issuing Authority: Quality Manager

8/21/2019

Worklist: 3617

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2019-3588	1	159367	Alcohol Analysis
M2019-3592	1	159388	Alcohol Analysis
M2019-3595	1	159417	Alcohol Analysis
M2019-3613	3	159606	Alcohol Analysis
M2019-3622	1	159676	Alcohol Analysis
M2019-3622	2	159680	Alcohol Analysis
M2019-3623	1	159684	Alcohol Analysis
M2019-3624	1	159688	Alcohol Analysis
M2019-3625	1	159692	Alcohol Analysis
M2019-3628	1	159701	Alcohol Analysis
M2019-3634	6	160090	Alcohol Analysis
M2019-3643	1	160024	Alcohol Analysis
M2019-3656	1	160047	Alcohol Analysis
M2019-3694	1	160395	Alcohol Analysis
M2019-3700	1	160470	Alcohol Analysis
M2019-3701	1	160474	Alcohol Analysis
M2019-3702	1	160478	Alcohol Analysis
M2019-3711	1	160509	Alcohol Analysis
M2019-3742	1	160563	Alcohol Analysis

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

Calibration Table

General Calibration Setting

Calib. Data Modified : Monday, August 19, 2019 12:58:20 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

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	4.49954	1.11123e-2	No	No	1	ethanol
		2	1.00000e-1	9.07343	1.10212e-2				
		3	2.00000e-1	18.05176	1.10793e-2				
		4	3.00000e-1	27.37482	1.09590e-2				
		5	5.00000e-1	45.15804	1.10722e-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	4.70313	1.06312e-2	No	No	2	ethanol
		2	1.00000e-1	9.48413	1.05439e-2				
		3	2.00000e-1	18.96652	1.05449e-2				
		4	3.00000e-1	28.91680	1.03746e-2				
		5	5.00000e-1	48.05568	1.04046e-2				
4.308	1	1	1.00000	6.49940	1.53860e-1	No	No	1	acetone
4.620	1	1	1.00000	45.86245	2.18043e-2	No	Yes	1	n-propanol
		2	1.00000	46.25109	2.16211e-2				
		3	1.00000	45.69131	2.18860e-2				
		4	1.00000	46.13388	2.16760e-2				
		5	1.00000	45.57505	2.19418e-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	48.36118	2.06777e-2	No	Yes	2	n-propanol
		2	1.00000	48.50446	2.06167e-2				
		3	1.00000	47.75930	2.09383e-2				
		4	1.00000	48.02877	2.08209e-2				
		5	1.00000	47.24361	2.11669e-2				

Peak Sum Table

No Entries in table

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1 Warnings or Errors :

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

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Calibration Curves

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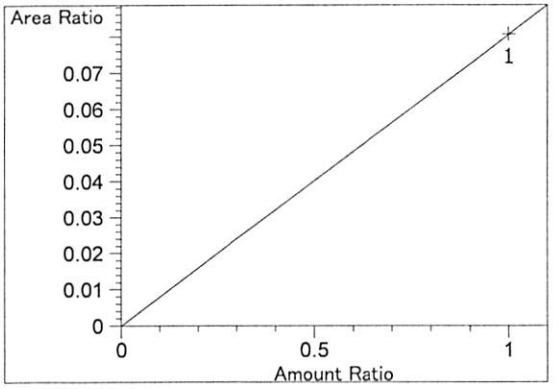
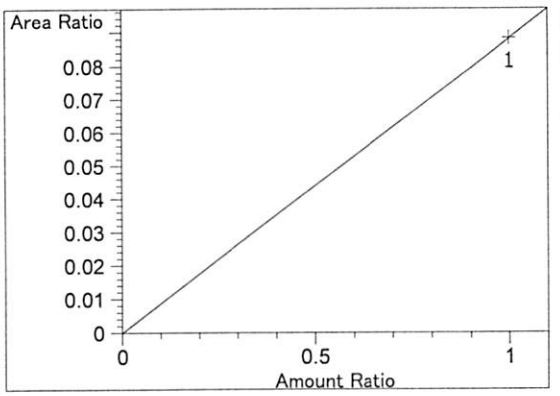
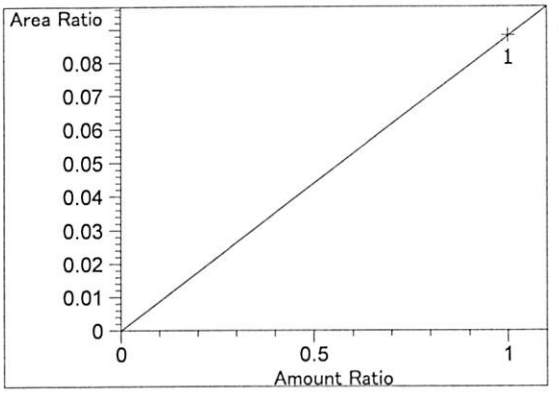


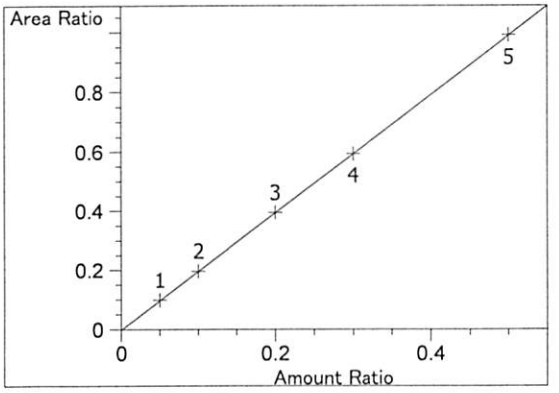
methanol at exp. RT: 2.586
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.06040e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



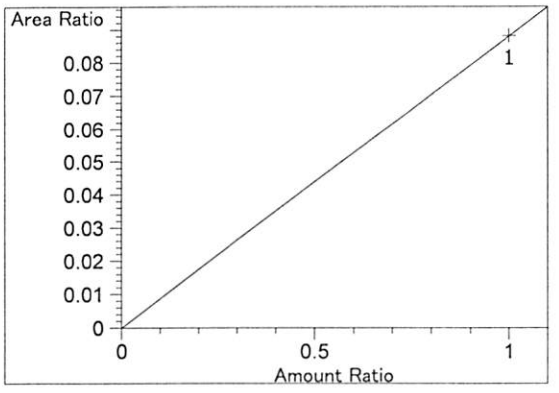
Acetaldehyde at exp. RT: 2.809
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.81079e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



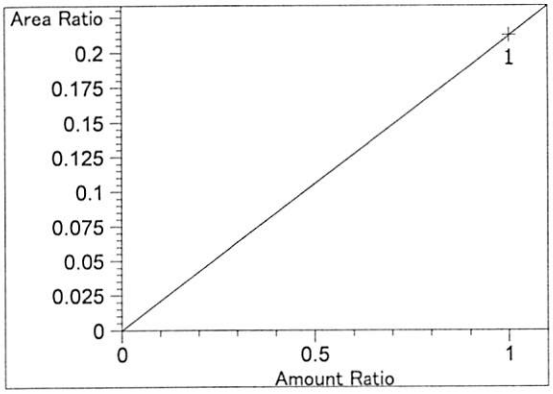
Acetaldehyde at exp. RT: 2.977
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.81079e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



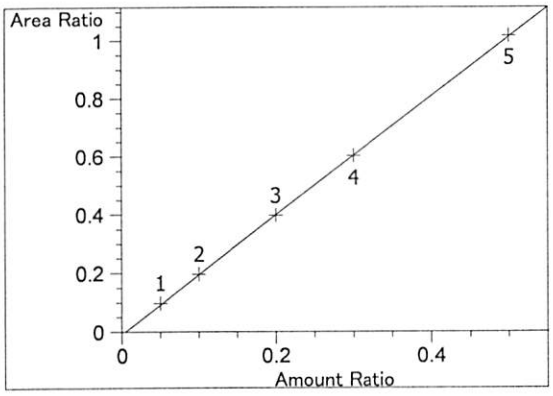
ethanol at exp. RT: 3.075
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00053
Formula: y = mx + b
m: 1.98477
b: -1.77835e-3
x: Amount Ratio
y: Area Ratio



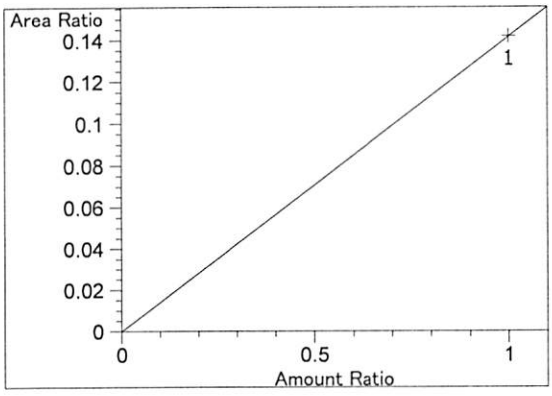
methanol at exp. RT: 3.388
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.81001e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



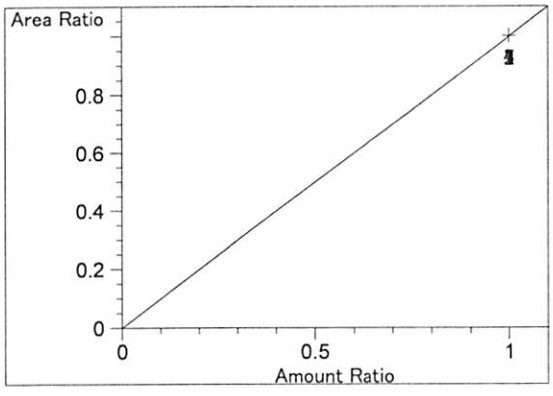
isopropyl alcohol at exp. RT: 3.628
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 2.12168e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



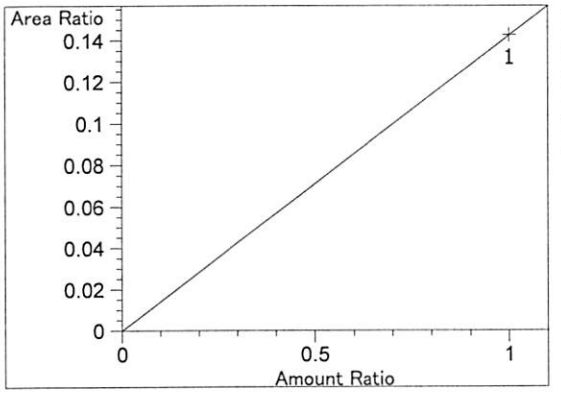
ethanol at exp. RT: 4.285
FID2 B, Back Signal
Correlation: 0.99996
Residual Std. Dev.: 0.00376
Formula: y = mx + b
m: 2.04647
b: -8.85418e-3
x: Amount Ratio
y: Area Ratio



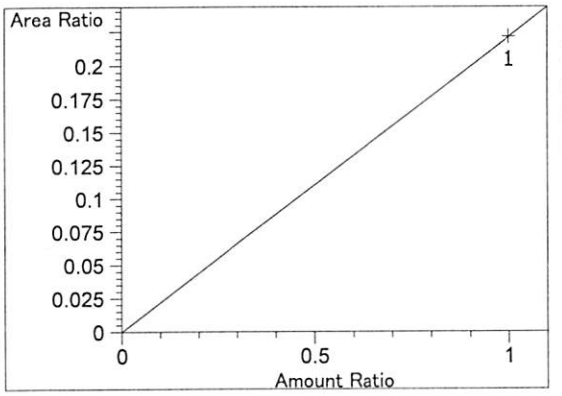
acetone at exp. RT: 4.308
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.41715e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



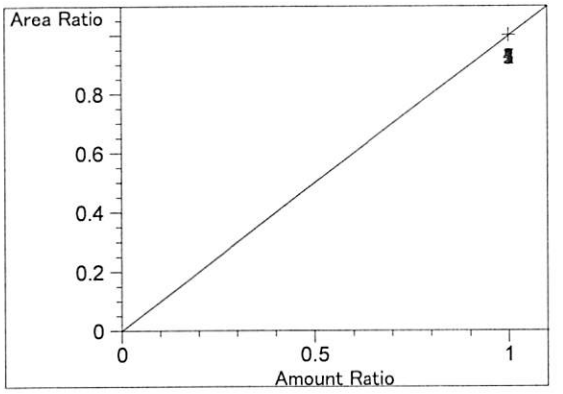
n-propanol at exp. RT: 4.620
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio



acetone at exp. RT: 4.661
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.42532e-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: 2.21384e-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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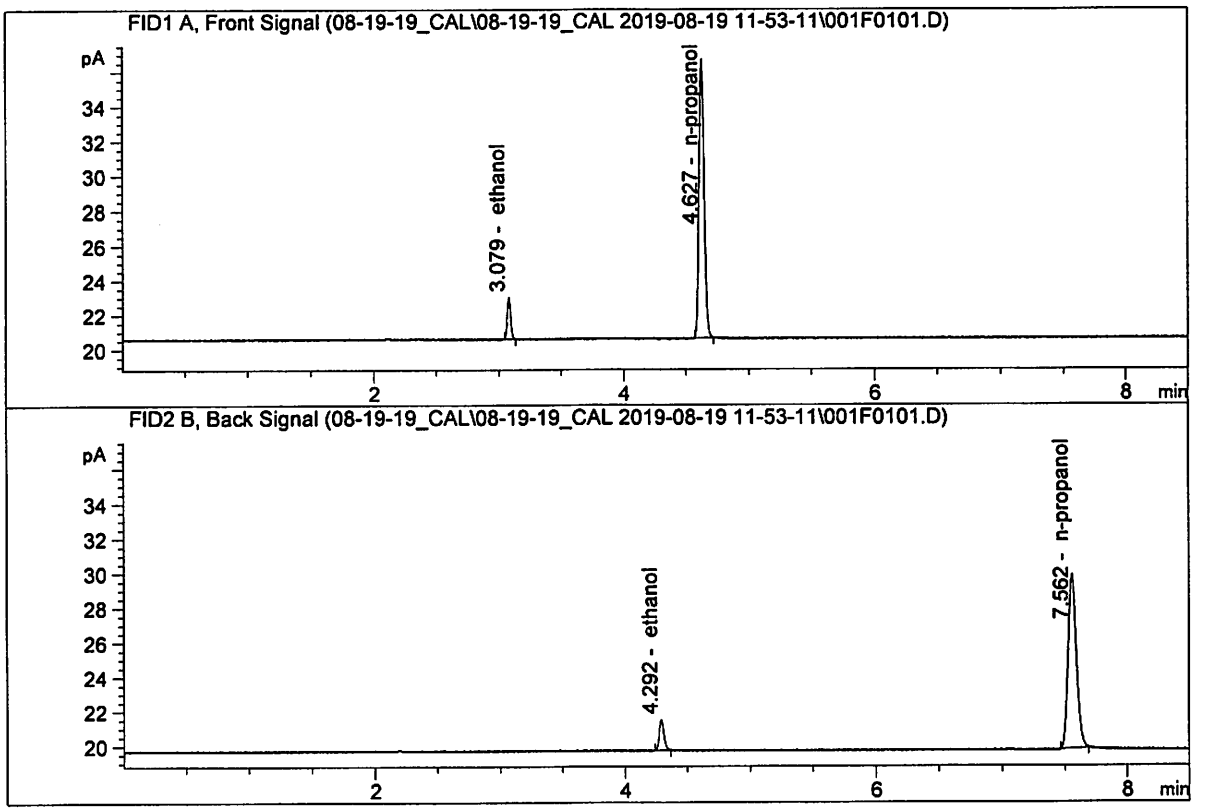
ISP Forensic Services Blood Alcohol Report

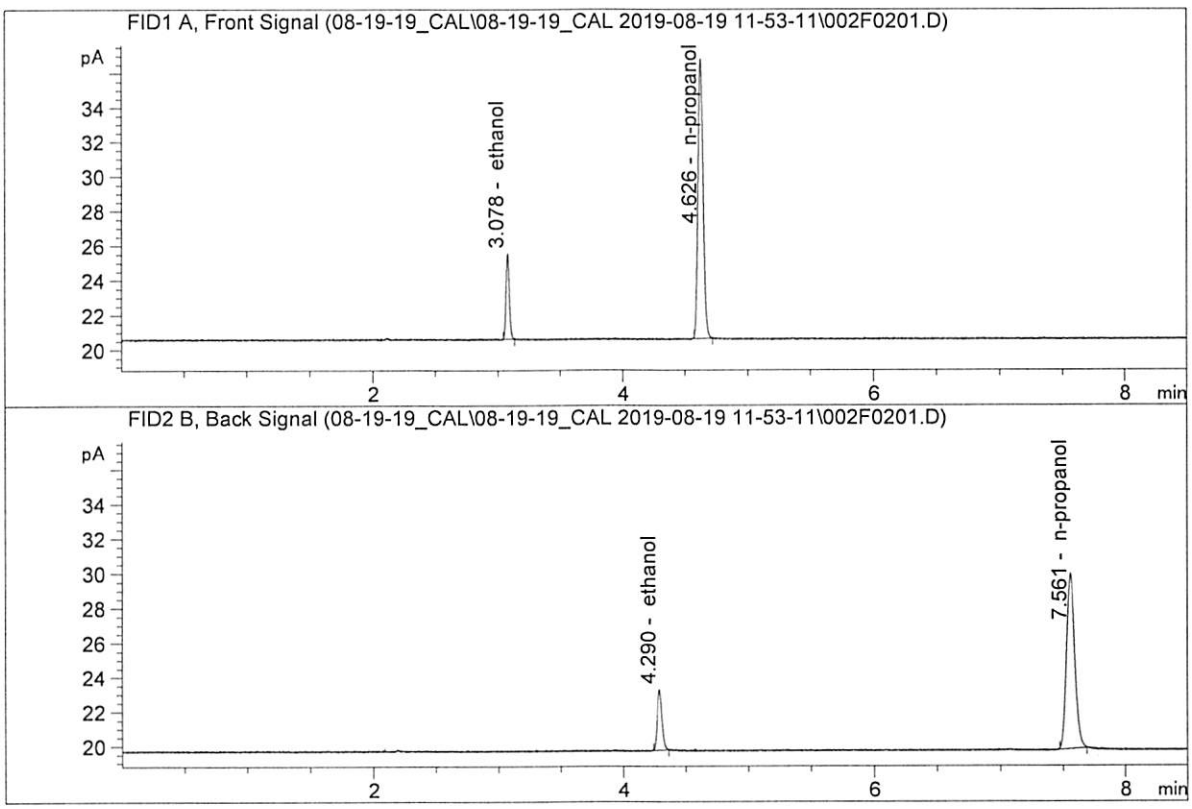
Sample Name : 0.050 FN05211804
Laboratory : Meridian
Injection Date : Aug 19, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	4.49954	0.0503	g/100cc
2.	Ethanol	Column 2:	4.70313	0.0518	g/100cc
3.	n-Propanol	Column 1:	45.86245	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.36118	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

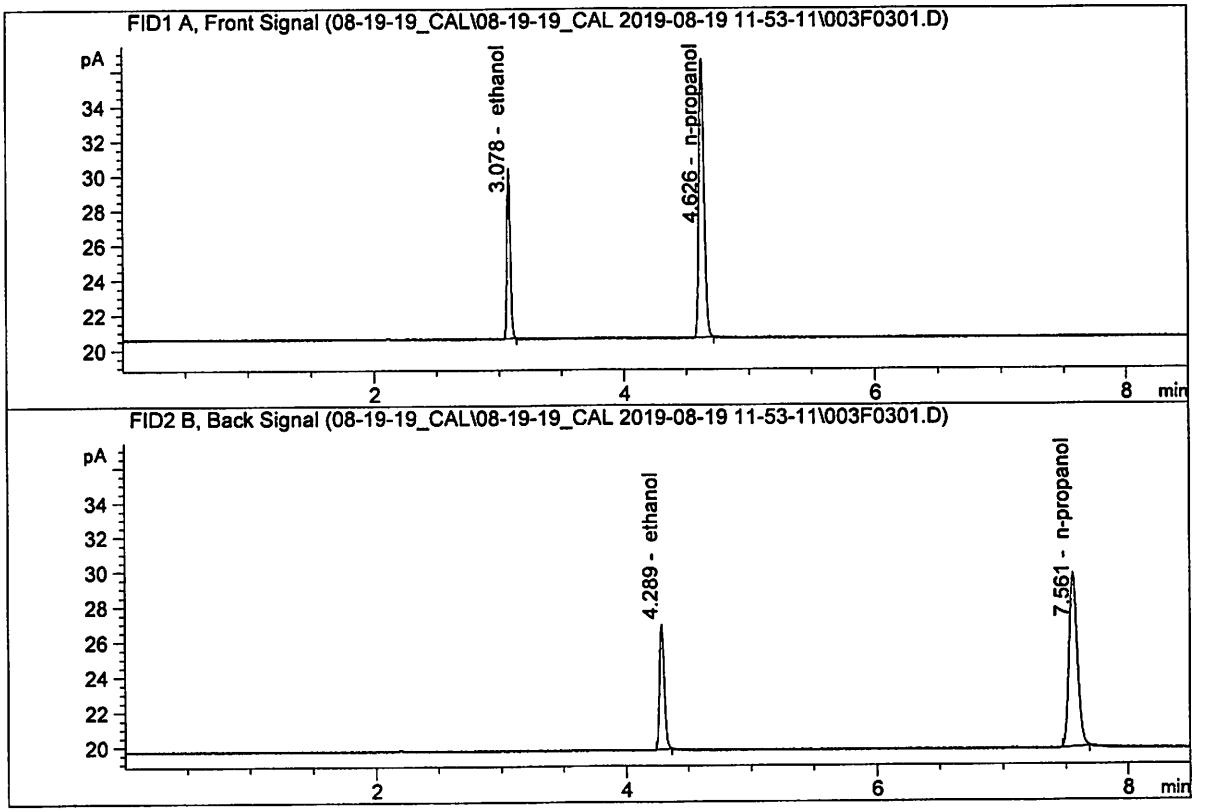
Sample Name : 0.100 FN02271802
Laboratory : Meridian
Injection Date : Aug 19, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	9.07343	0.0997	g/100cc
2.	Ethanol	Column 2:	9.48413	0.0999	g/100cc
3.	n-Propanol	Column 1:	46.25109	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.50446	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.200 FN06231704
Laboratory : Meridian
Injection Date : Aug 19, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.05176	0.2000	g/100cc
2.	Ethanol	Column 2:	18.96652	0.1984	g/100cc
3.	n-Propanol	Column 1:	45.69131	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.75930	1.0000	g/100cc

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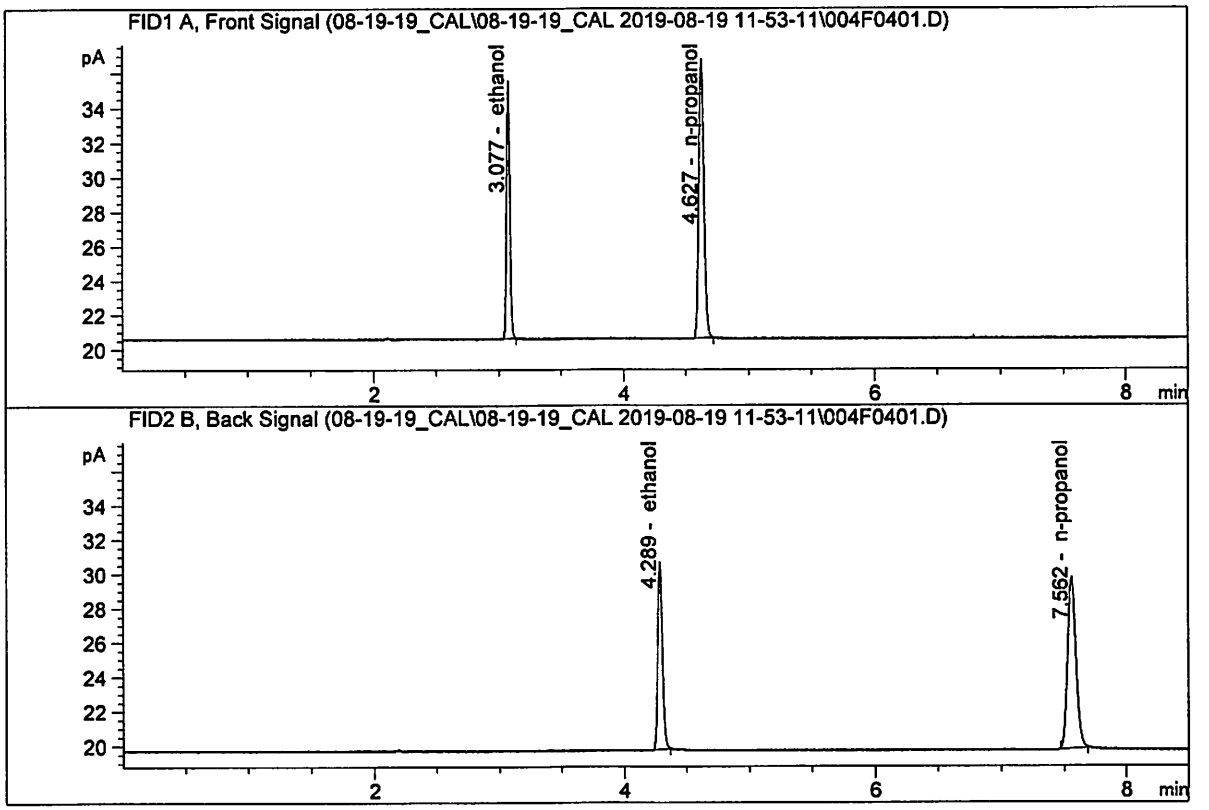
ISP Forensic Services Blood Alcohol Report

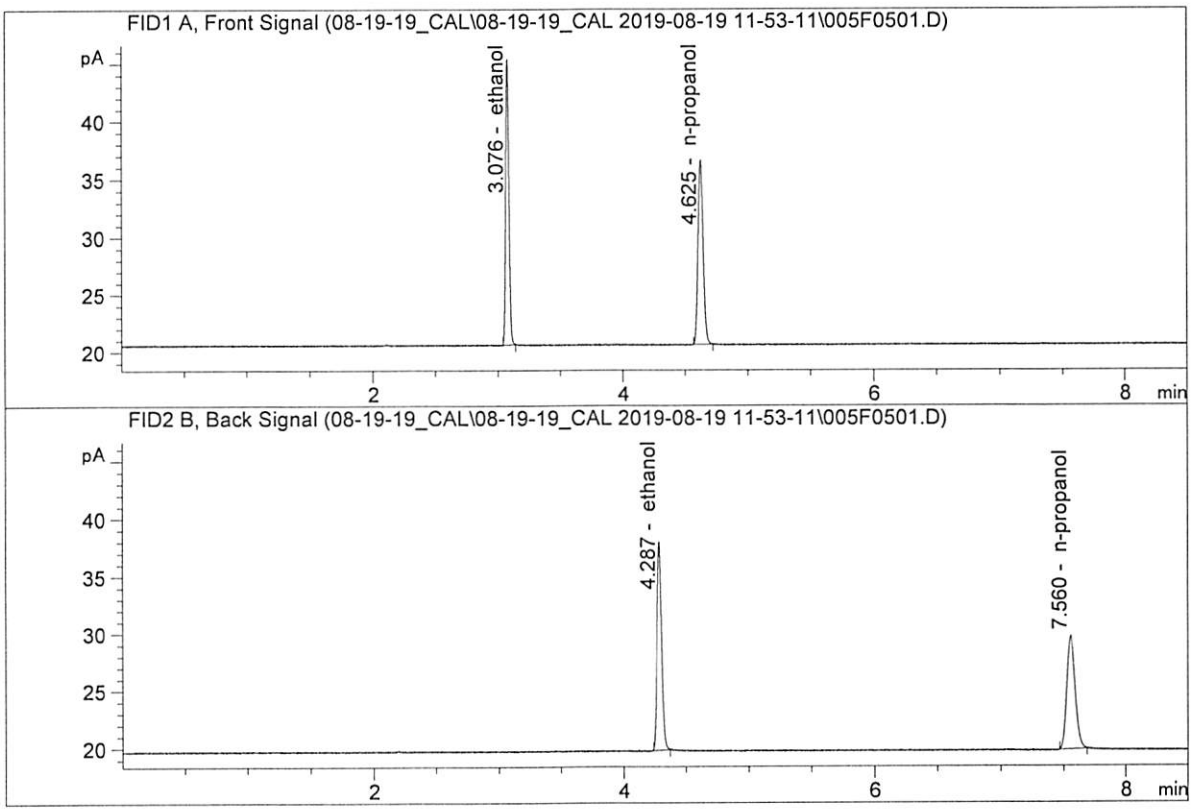
Sample Name : 0.300 FN07311804
Laboratory : Meridian
Injection Date : Aug 19, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	27.37482	0.2999	g/100cc
2.	Ethanol	Column 2:	28.91680	0.2985	g/100cc
3.	n-Propanol	Column 1:	46.13388	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.02877	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

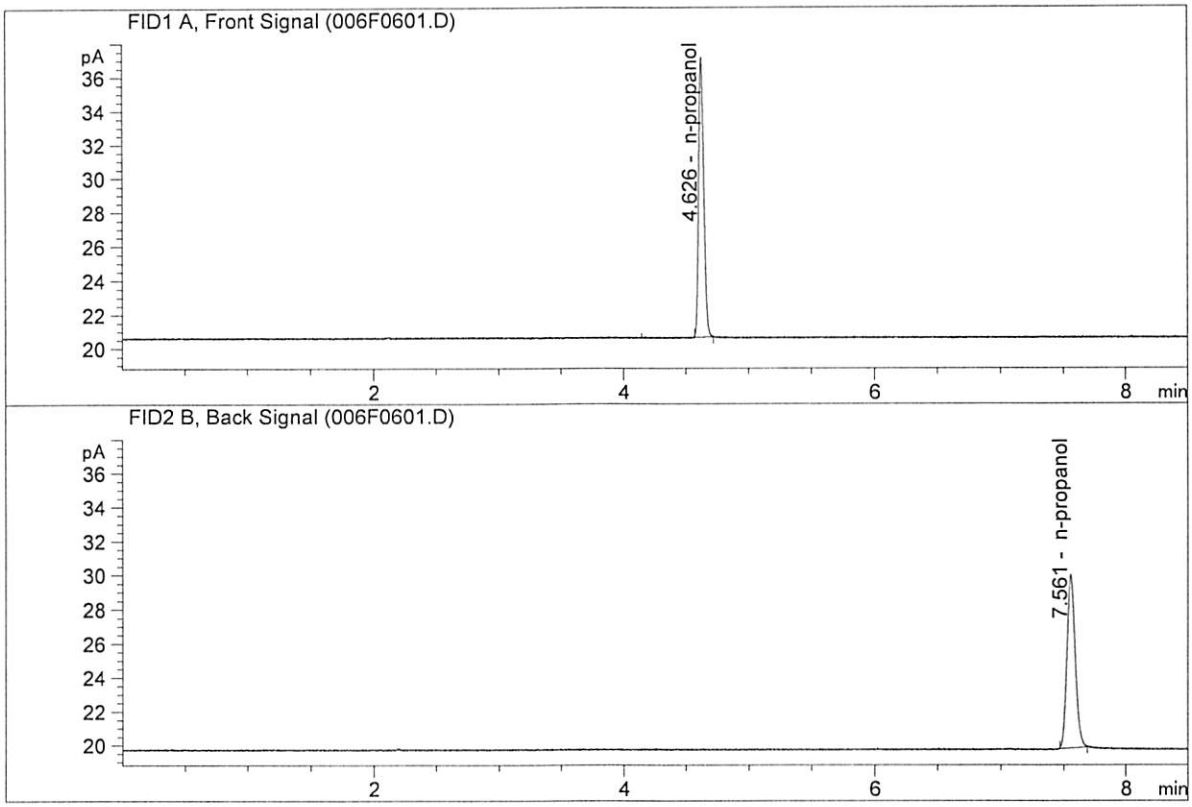
Sample Name : 0.500 FN08031602
Laboratory : Meridian
Injection Date : Aug 19, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	45.15804	0.5001	g/100cc
2.	Ethanol	Column 2:	48.05568	0.5014	g/100cc
3.	n-Propanol	Column 1:	45.57505	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.24361	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STANDARD BLANK
Laboratory : Meridian
Injection Date : Aug 19, 2019
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:	46.75133	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.77990	1.0000	g/100cc

Sequence File C:\Chem32\1\Data\08-19-19_CAL\08-19-19_CAL 2019-08-19 11-53-11\08-19-19_CAL.S

Sample Summary

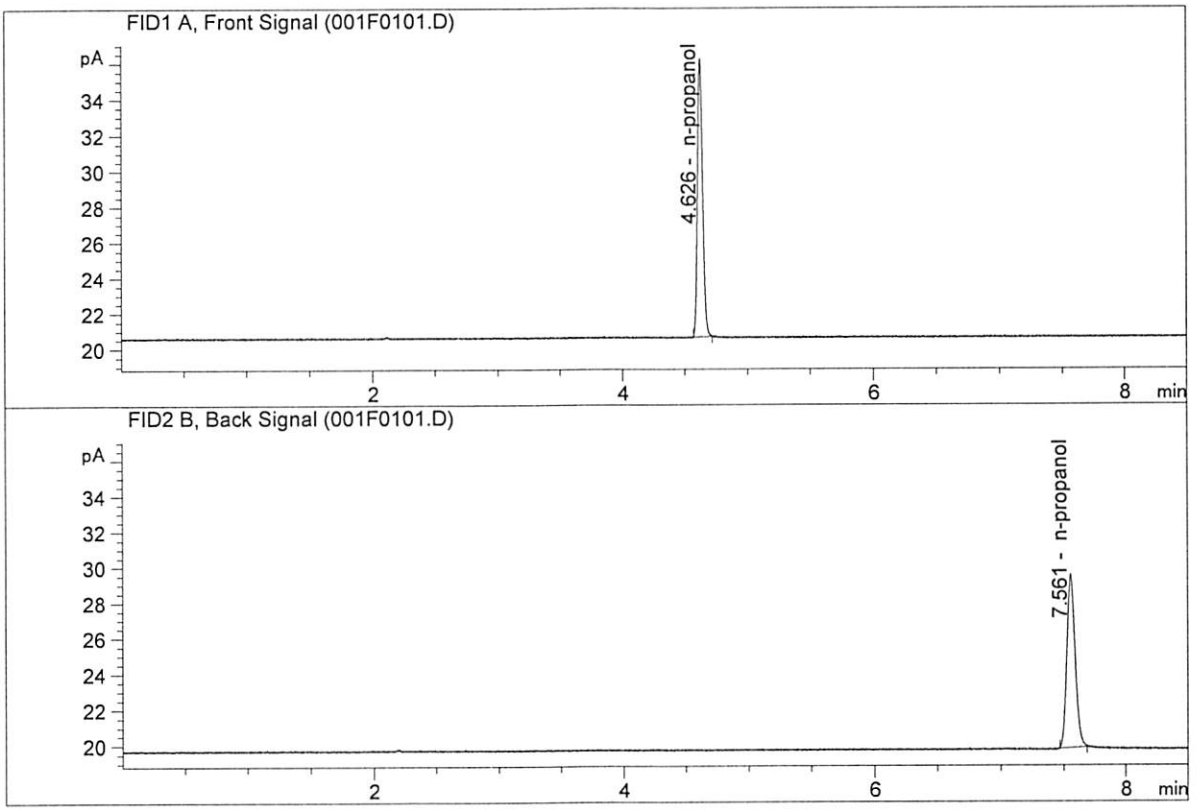
Sequence table: C:\Chem32\1\Data\08-19-19_CAL\08-19-19_CAL 2019-08-19 11-53-11\08-19-19_CAL.S
Data directory path: C:\Chem32\1\Data\08-19-19_CAL\08-19-19_CAL 2019-08-19 11-53-11\
Logbook: C:\Chem32\1\Data\08-19-19_CAL\08-19-19_CAL 2019-08-19 11-53-11\08-19-19_CAL.LOG
Sequence start: 8/19/2019 12:07:48 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\08-19-19_CAL\08-19-19_CAL 2019-08-19 11-53-11\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 FN08031602	-	1.0000	005F0501.D	*	4
6	6	1	INTERNAL STANDAR	-	1.0000	006F0601.D		2

ISP Forensic Services Blood Alcohol Report

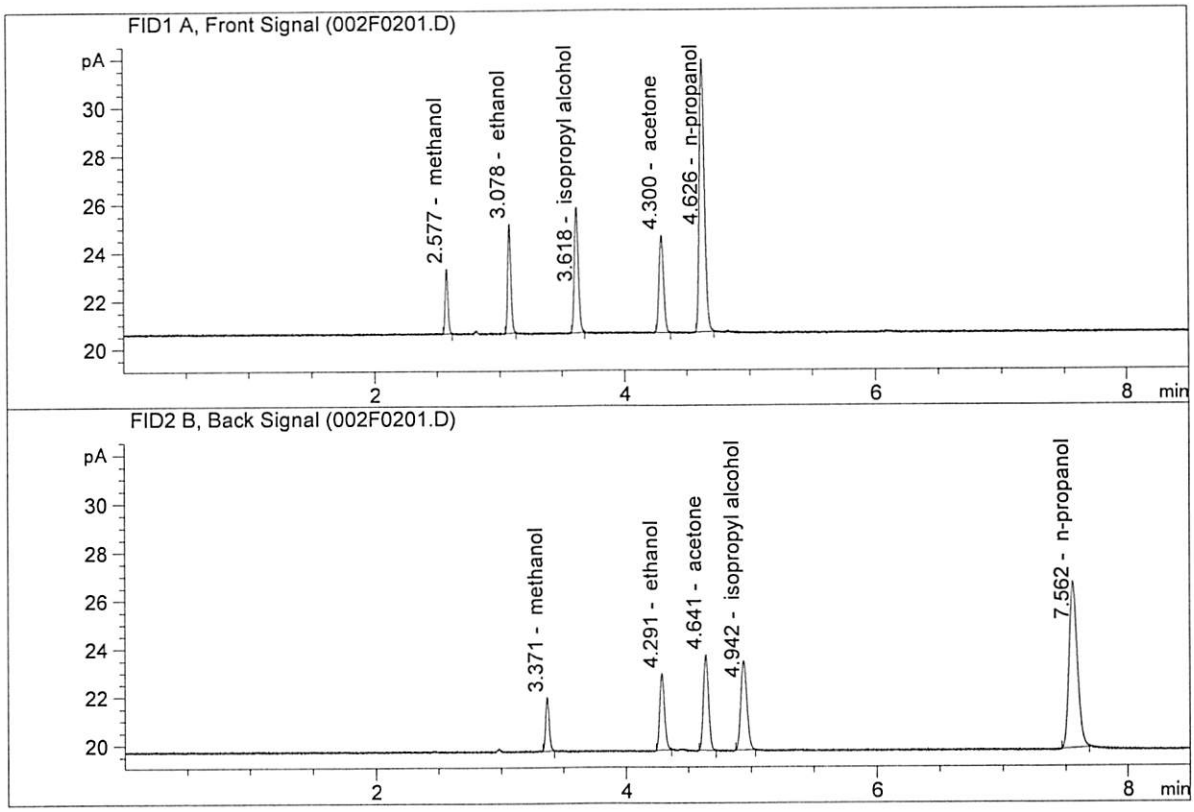
Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Aug 20, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	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:	44.47928	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.56609	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN06041502
Laboratory : Meridian
Injection Date : Aug 20, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.11666	0.1291	g/100cc
2.	Ethanol	Column 2:	8.45695	0.1299	g/100cc
3.	n-Propanol	Column 1:	31.88833	1.0000	g/100cc
4.	n-Propanol	Column 2:	32.92086	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 20 Aug 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0789	0.0798	0.0009	0.0793	0.0785	
(g/100cc)	0.0773	0.0781	0.0008	0.0777		

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%**

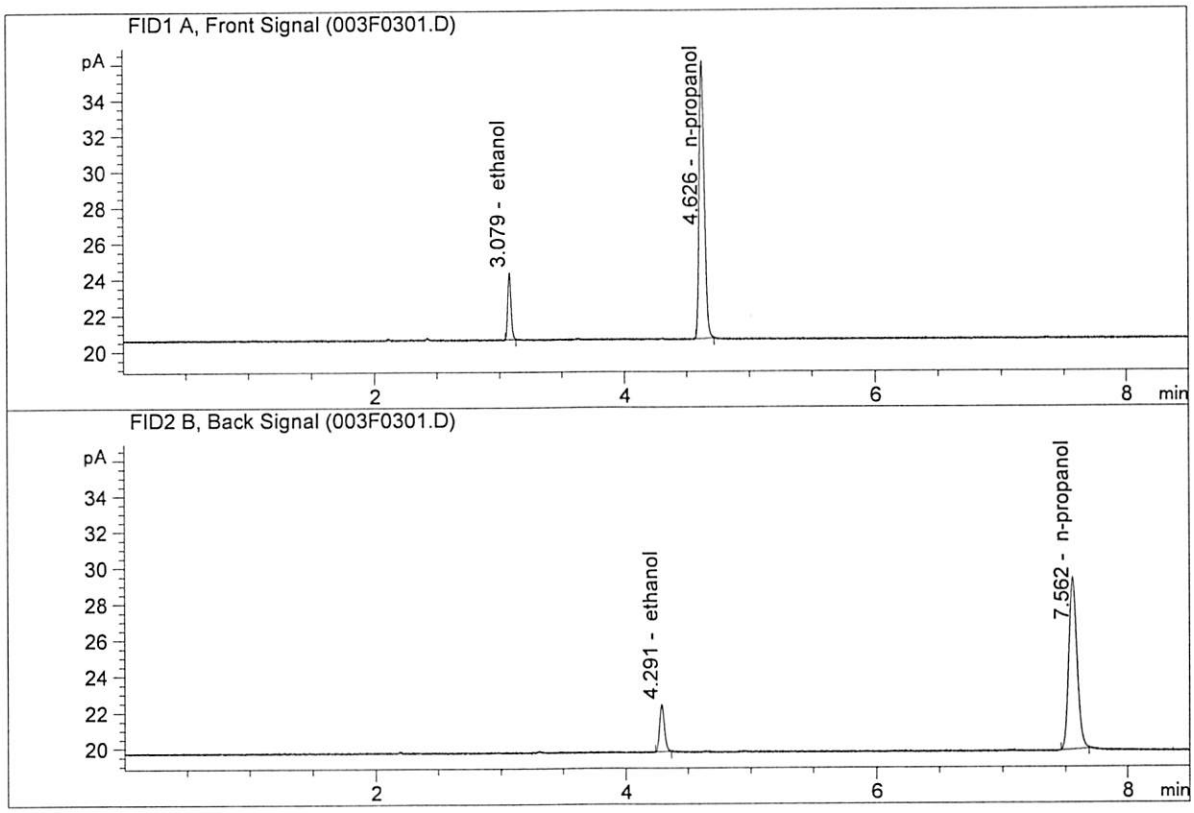
Overall Mean (g/100cc)	Low	High	5% of Mean
0.078	0.074	0.082	0.004

	Reported Result	
	0.078	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

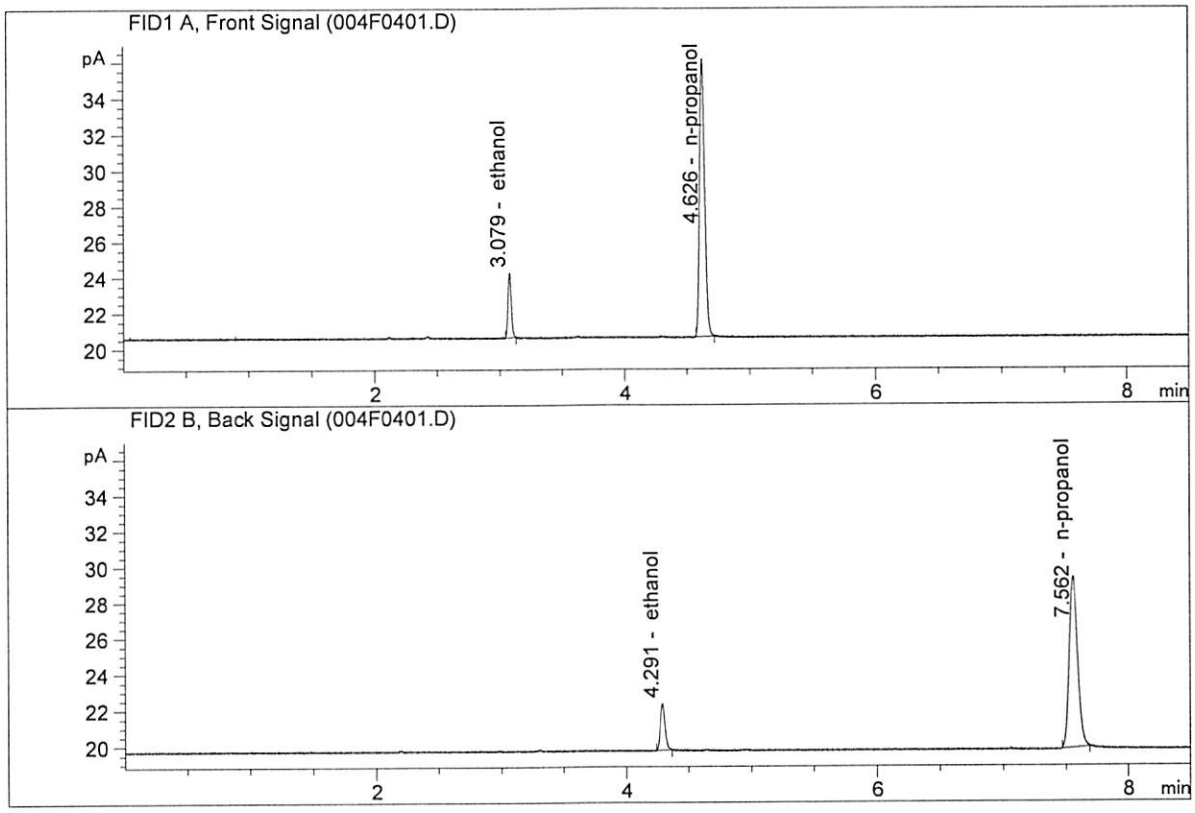
Sample Name : QC1-1-A
Laboratory : Meridian
Injection Date : Aug 20, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.81793	0.0789	g/100cc
2.	Ethanol	Column 2:	7.06810	0.0798	g/100cc
3.	n-Propanol	Column 1:	44.03496	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.75548	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
Laboratory : Meridian
Injection Date : Aug 20, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.70030	0.0773	g/100cc
2.	Ethanol	Column 2:	6.92728	0.0781	g/100cc
3.	n-Propanol	Column 1:	44.16265	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.88859	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN04171701 **Analysis Date(s): 20 Aug 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0816	0.0821	0.0005	0.0818	0.0817	
(g/100cc)	0.0811	0.0822	0.0011	0.0816		

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%**

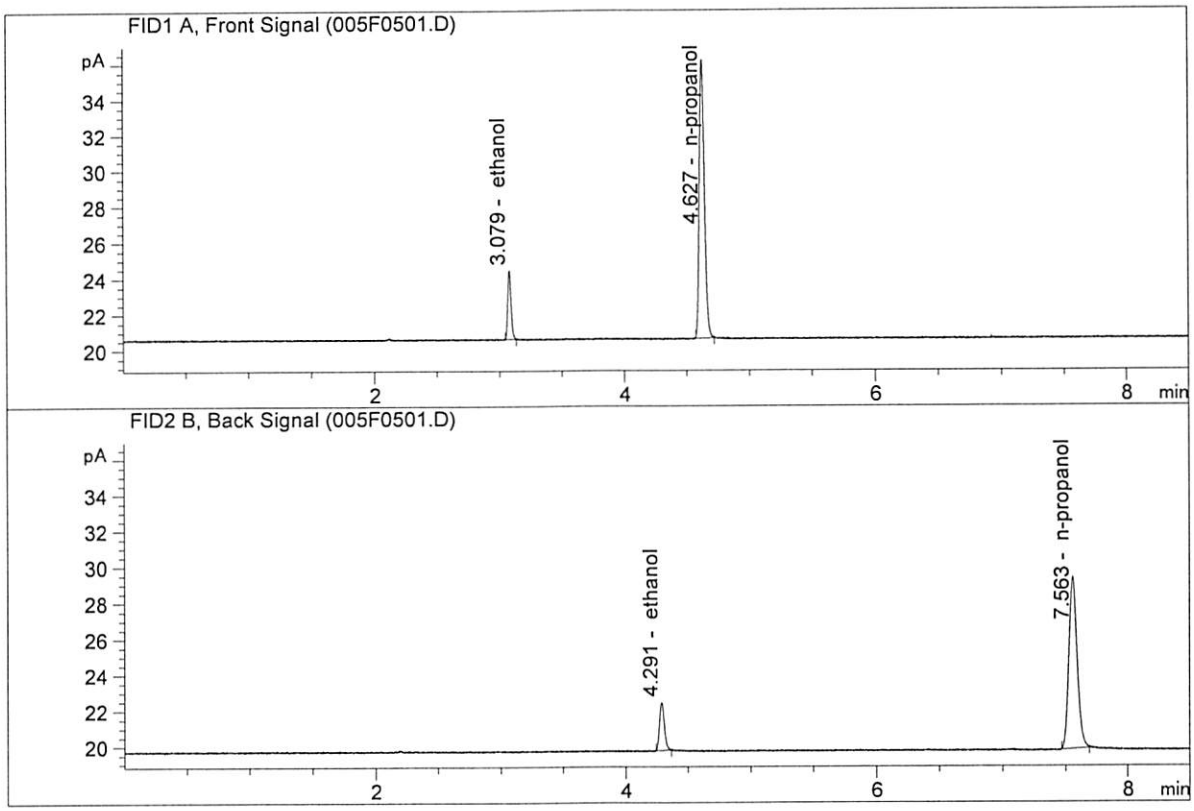
Overall Mean (g/100cc)	Low	High	5% of Mean
0.081	0.076	0.086	0.005

	Reported Result	
	0.081	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

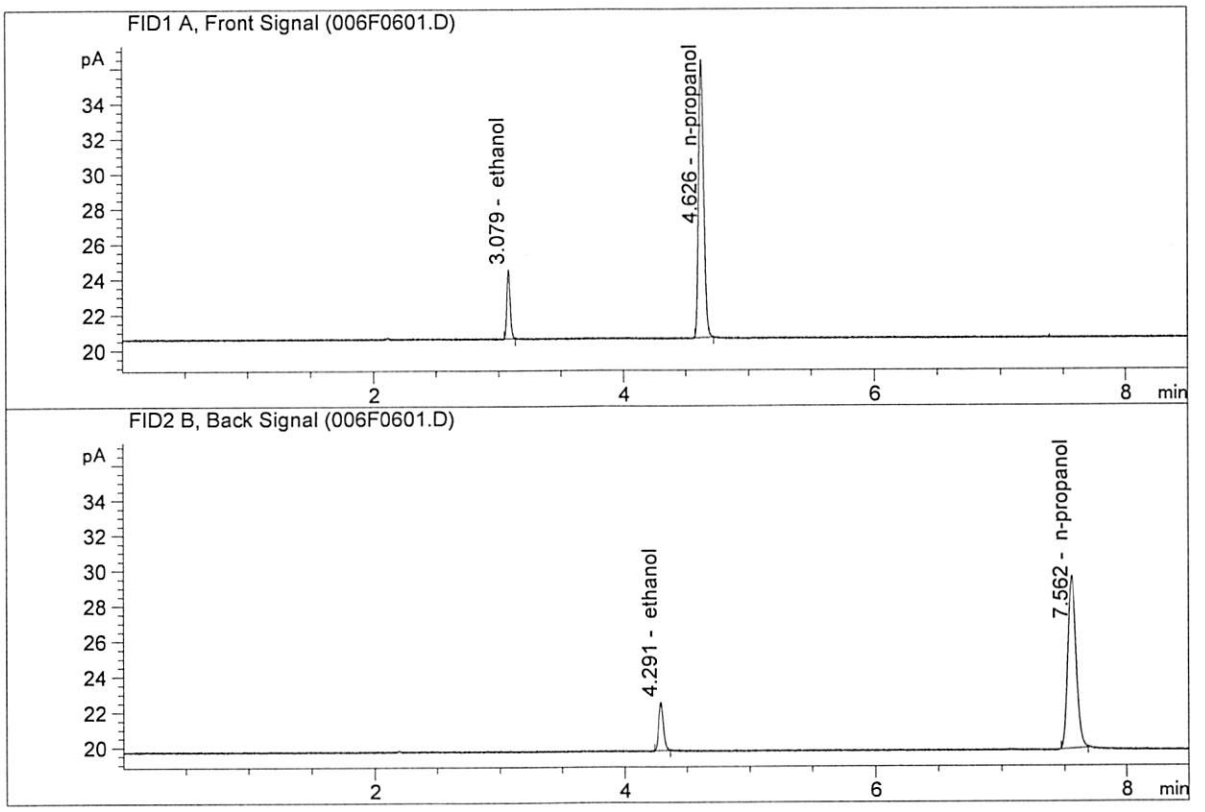
Sample Name : 0.08 FN04171701-A
Laboratory : Meridian
Injection Date : Aug 20, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.08444	0.0816	g/100cc
2.	Ethanol	Column 2:	7.30399	0.0821	g/100cc
3.	n-Propanol	Column 1:	44.20238	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.90277	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-B
Laboratory : Meridian
Injection Date : Aug 20, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.17872	0.0811	g/100cc
2.	Ethanol	Column 2:	7.45335	0.0822	g/100cc
3.	n-Propanol	Column 1:	45.09311	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.78759	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 20 Aug 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2076	0.2074	0.0002	0.2075	0.2078	
(g/100cc)	0.2081	0.2084	0.0003	0.2082		

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%**

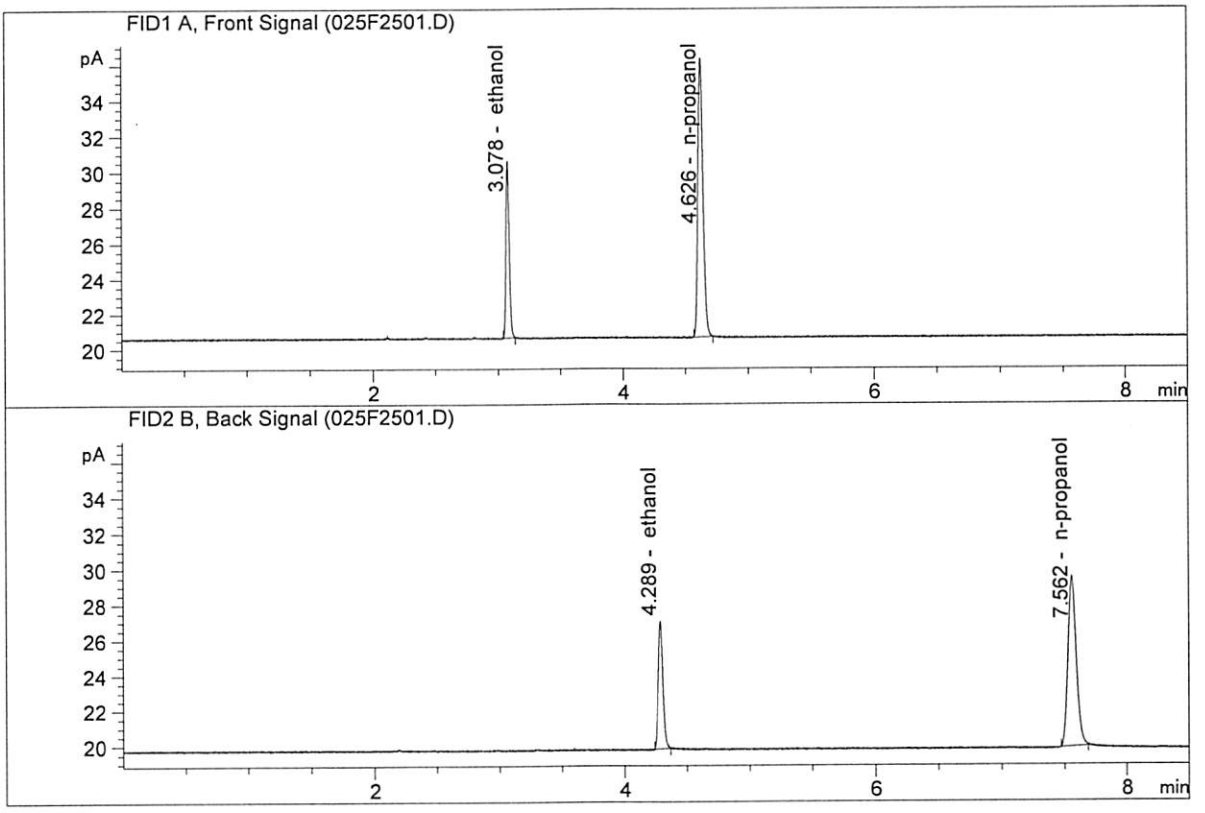
Overall Mean (g/100cc)	Low	High	5% of Mean
0.207	0.196	0.218	0.011

Reported Result
0.207

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

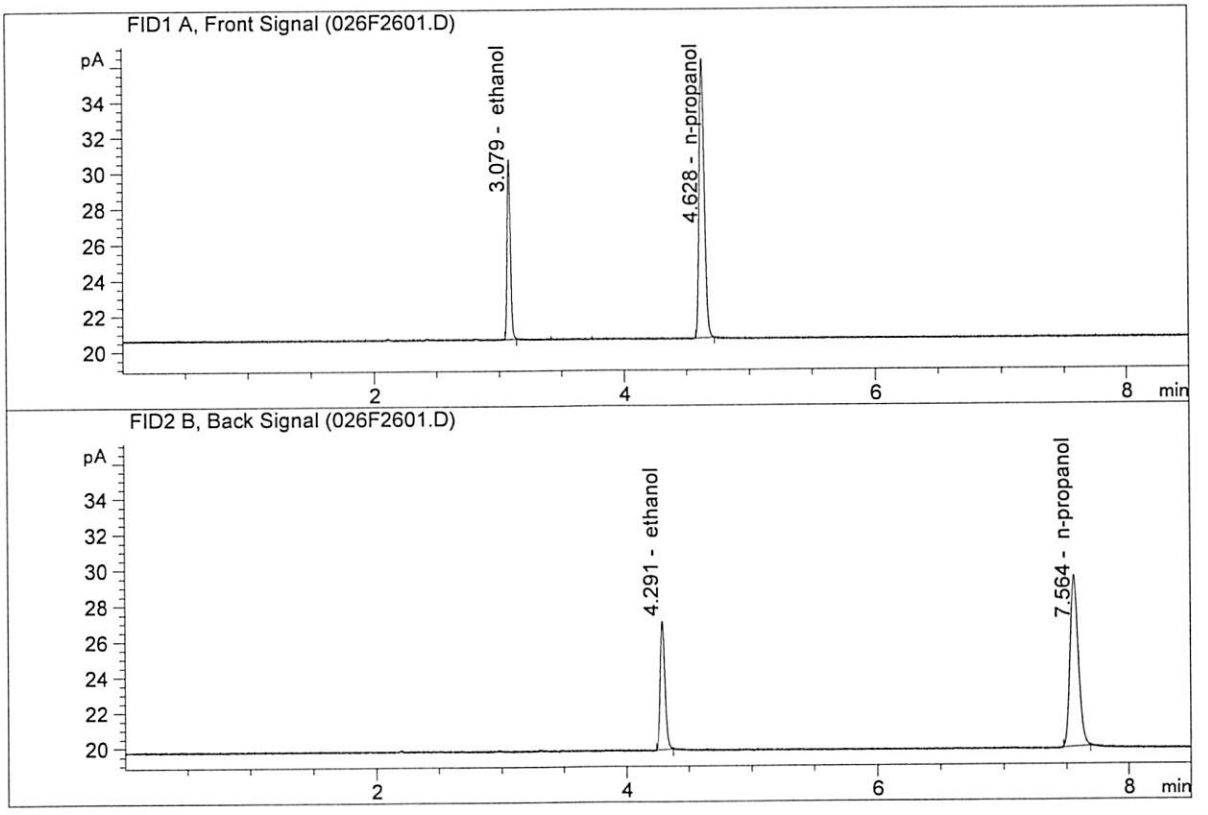
Sample Name : QC2-1-A
Laboratory : Meridian
Injection Date : Aug 20, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.30853	0.2076	g/100cc
2.	Ethanol	Column 2:	19.24000	0.2074	g/100cc
3.	n-Propanol	Column 1:	44.62788	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.29162	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
Laboratory : Meridian
Injection Date : Aug 20, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.35822	0.2081	g/100cc
2.	Ethanol	Column 2:	19.36016	0.2084	g/100cc
3.	n-Propanol	Column 1:	44.64028	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.35951	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Analysis Date(s): 20 Aug 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0780	0.0794	0.0014	0.0787	0.0787	
(g/100cc)	0.0783	0.0792	0.0009	0.0787		

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%**

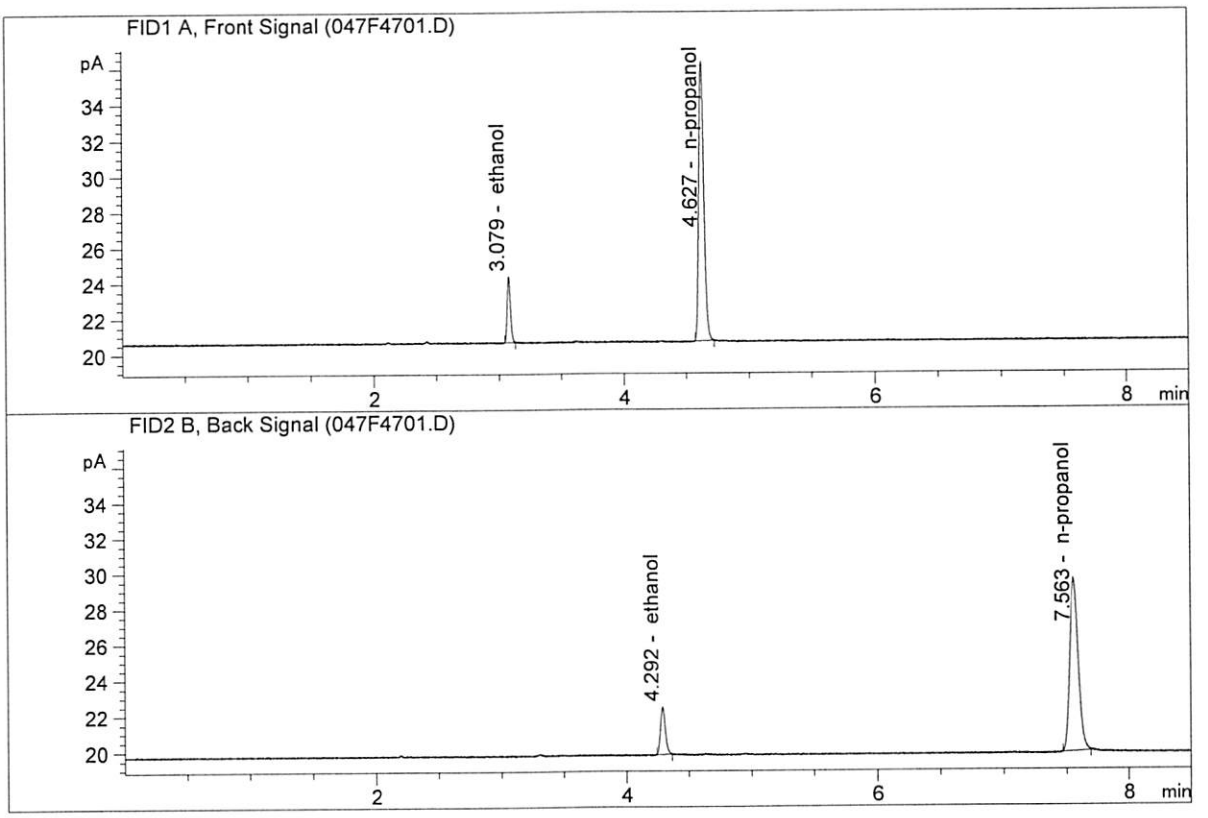
Overall Mean (g/100cc)	Low	High	5% of Mean
0.078	0.074	0.082	0.004

Reported Result
0.078

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

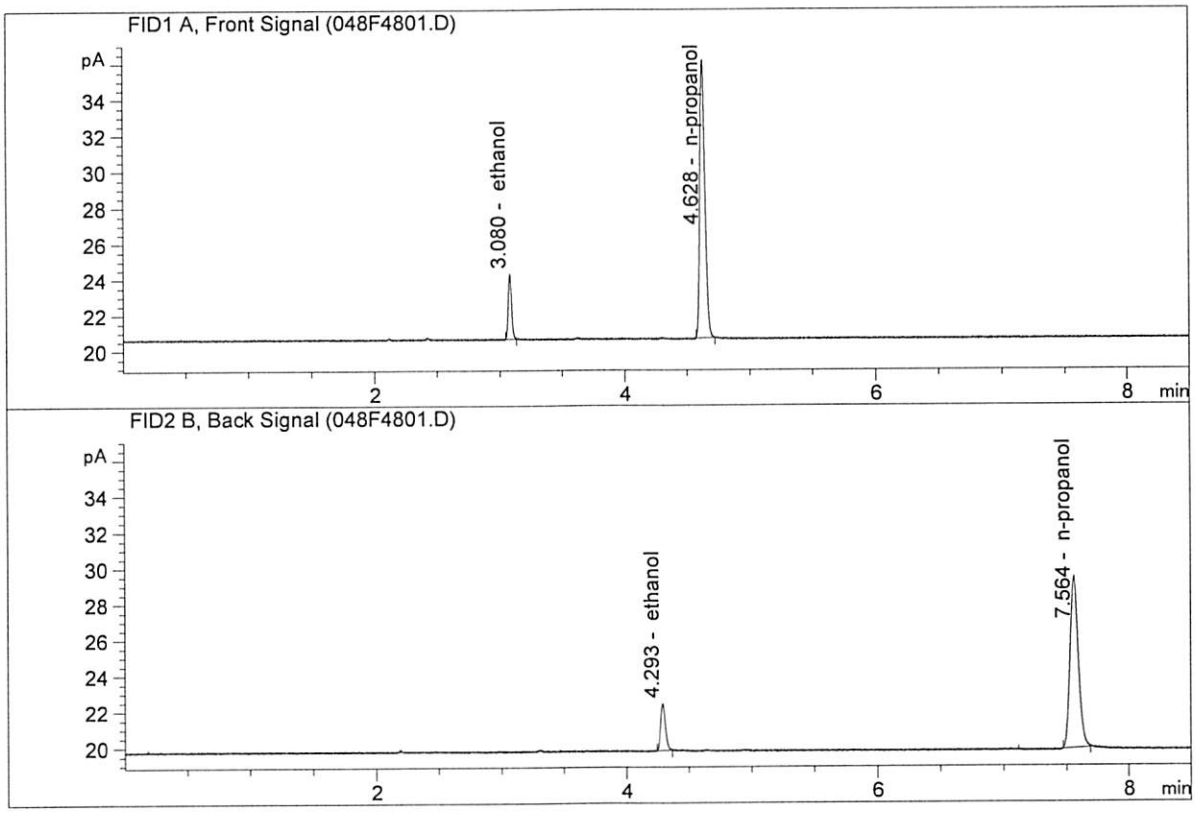
Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : Aug 20, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.82125	0.0780	g/100cc
2.	Ethanol	Column 2:	7.11862	0.0794	g/100cc
3.	n-Propanol	Column 1:	44.56553	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.35574	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : Aug 20, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.79253	0.0783	g/100cc
2.	Ethanol	Column 2:	7.04302	0.0792	g/100cc
3.	n-Propanol	Column 1:	44.23622	1.0000	g/100cc
4.	n-Propanol	Column 2:	45.94044	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-2 **Analysis Date(s): 20 Aug 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2083	0.2082	0.0001	0.2082	0.2089	
(g/100cc)	0.2099	0.2092	0.0007	0.2095		

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%**

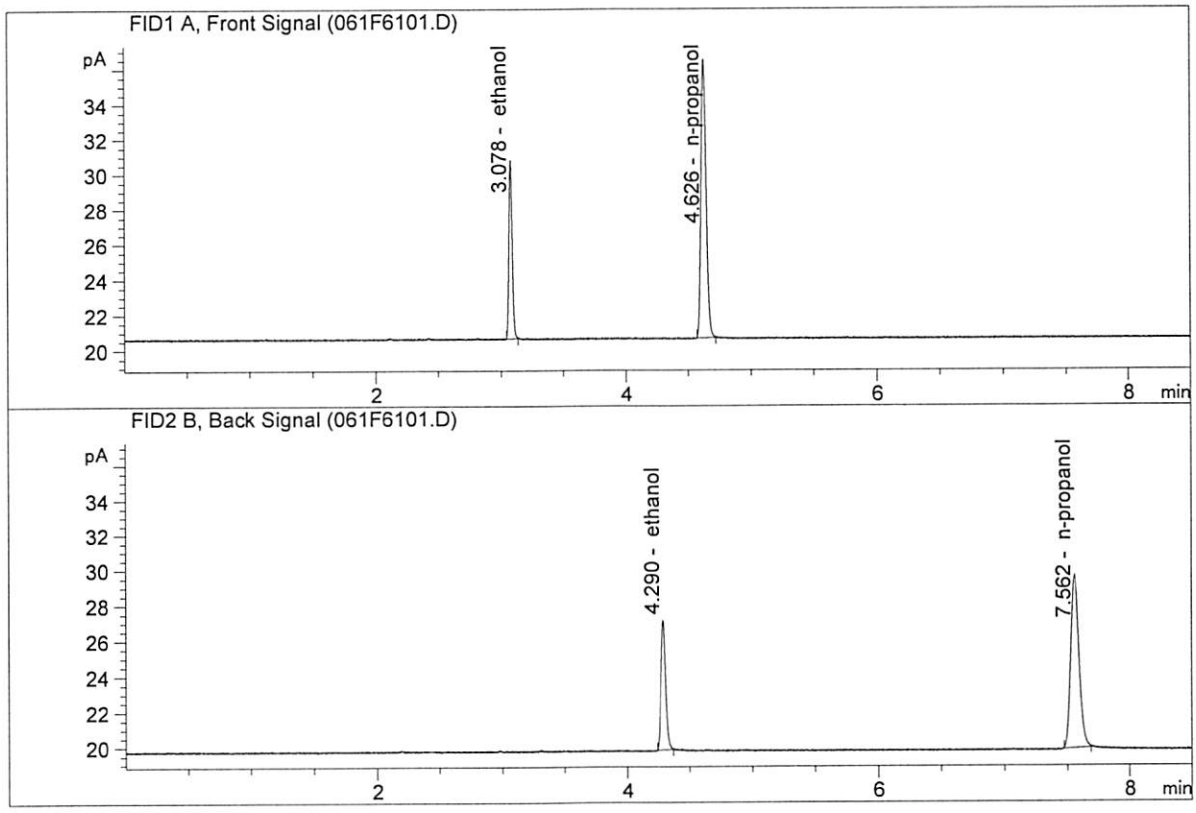
Overall Mean (g/100cc)	Low	High	5% of Mean
0.208	0.197	0.219	0.011

	Reported Result	
	0.208	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

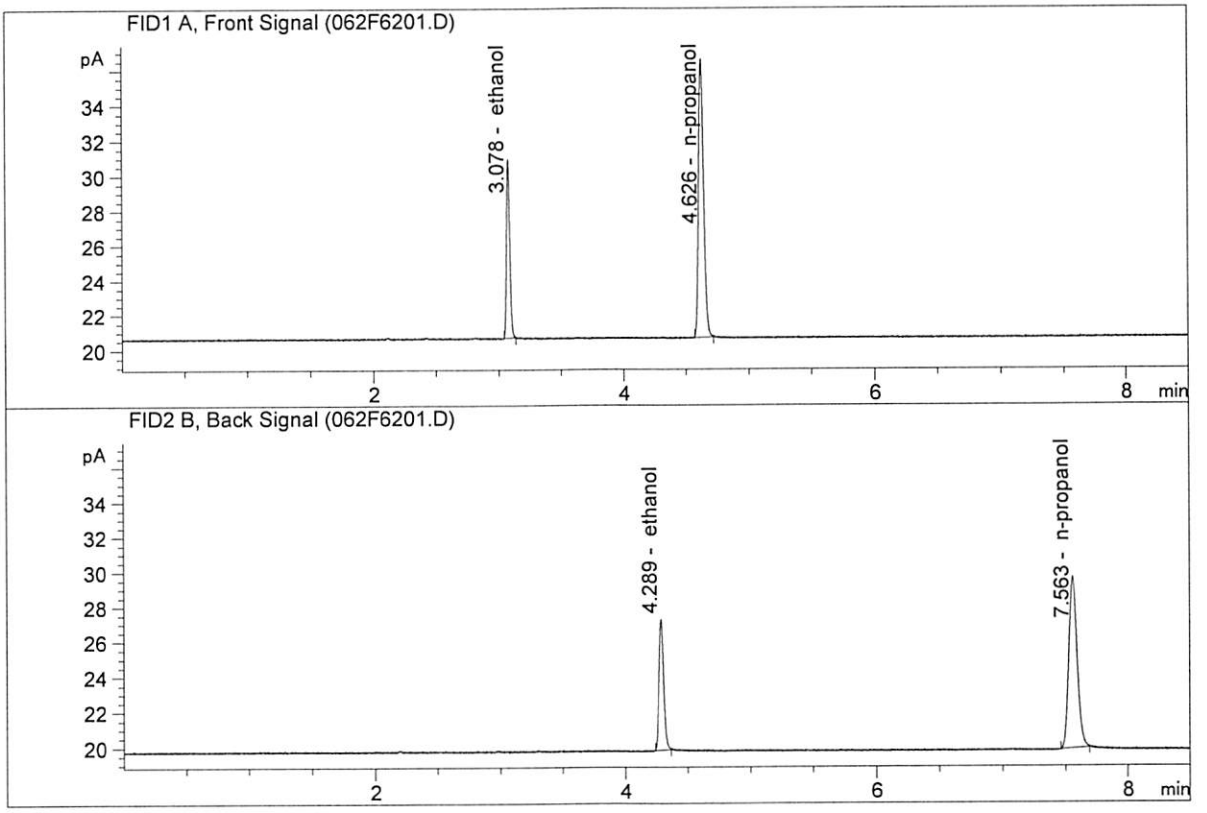
Sample Name : QC2-2-A
Laboratory : Meridian
Injection Date : Aug 20, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.56495	0.2083	g/100cc
2.	Ethanol	Column 2:	19.53217	0.2082	g/100cc
3.	n-Propanol	Column 1:	45.10750	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.80822	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

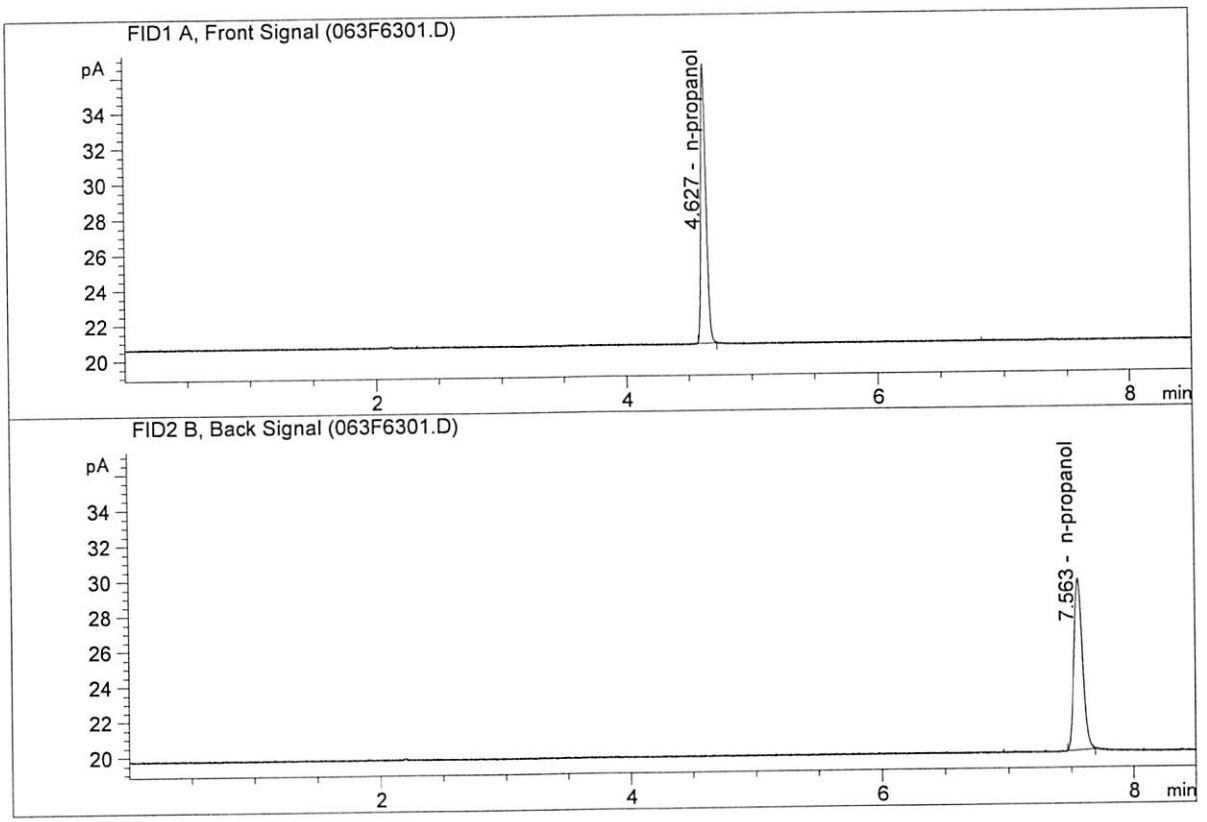
Sample Name : QC2-2-B
Laboratory : Meridian
Injection Date : Aug 20, 2019
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.80490	0.2099	g/100cc
2.	Ethanol	Column 2:	19.75960	0.2092	g/100cc
3.	n-Propanol	Column 1:	45.32333	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.12759	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Aug 20, 2019
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:	45.00533	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.80802	1.0000	g/100cc

Sequence File C:\Chem32\...9_SAMPLES\08-20-19_SAMPLES 2019-08-20 10-48-12\08-20-19_SAMPLES.S

Sample Summary

Sequence table: C:\Chem32\1\Data\08-20-19_SAMPLES\08-20-19_SAMPLES 2019-08-20 10-48-12\08-20-19_SAMPLES.S
Data directory path: C:\Chem32\1\Data\08-20-19_SAMPLES\08-20-19_SAMPLES 2019-08-20 10-48-12\
Logbook: C:\Chem32\1\Data\08-20-19_SAMPLES\08-20-19_SAMPLES 2019-08-20 10-48-12\08-20-19_SAMPLES.LOG
Sequence start: 8/20/2019 11:03:00 AM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\08-20-19_SAMPLES\08-20-19_SAMPLES 2019-08-20 10-48-12\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 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	GUTH 0.040 LOT19	-	1.0000	007F0701.D		4
8	8	1	GUTH 0.040 LOT19	-	1.0000	008F0801.D		4
9	9	1	GUTH 0.040 LOT19	-	1.0000	009F0901.D		4
10	10	1	GUTH 0.040 LOT19	-	1.0000	010F1001.D		4
11	11	1	GUTH 0.080 LOT19	-	1.0000	011F1101.D		4
12	12	1	GUTH 0.080 LOT19	-	1.0000	012F1201.D		4
13	13	1	GUTH 0.080 LOT19	-	1.0000	013F1301.D		4
14	14	1	GUTH 0.080 LOT19	-	1.0000	014F1401.D		4
15	15	1	GUTH 0.200 LOT19	-	1.0000	015F1501.D		4
16	16	1	GUTH 0.200 LOT19	-	1.0000	016F1601.D		4
17	17	1	GUTH 0.200 LOT19	-	1.0000	017F1701.D		4
18	18	1	GUTH 0.200 LOT19	-	1.0000	018F1801.D		4
19	19	1	M2019-3588-1-A	-	1.0000	019F1901.D		2
20	20	1	M2019-3588-1-B	-	1.0000	020F2001.D		2
21	21	1	M2019-3592-1-A	-	1.0000	021F2101.D		4
22	22	1	M2019-3592-1-B	-	1.0000	022F2201.D		4
23	23	1	M2019-3595-1-A	-	1.0000	023F2301.D		4
24	24	1	M2019-3595-1-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	M2019-3613-3-A	-	1.0000	027F2701.D		2
28	28	1	M2019-3613-3-B	-	1.0000	028F2801.D		2
29	29	1	M2019-3622-1-A	-	1.0000	029F2901.D		2
30	30	1	M2019-3622-1-B	-	1.0000	030F3001.D		2
31	31	1	M2019-3622-2-A	-	1.0000	031F3101.D		2
32	32	1	M2019-3622-2-B	-	1.0000	032F3201.D		2
33	33	1	M2019-3623-1-A	-	1.0000	033F3301.D		4
34	34	1	M2019-3623-1-B	-	1.0000	034F3401.D		4
35	35	1	M2019-3624-1-A	-	1.0000	035F3501.D		2
36	36	1	M2019-3624-1-B	-	1.0000	036F3601.D		2
37	37	1	M2019-3625-1-A	-	1.0000	037F3701.D		2
38	38	1	M2019-3625-1-B	-	1.0000	038F3801.D		2
39	39	1	M2019-3634-6-A	-	1.0000	039F3901.D		2
40	40	1	M2019-3634-6-B	-	1.0000	040F4001.D		2
41	41	1	M2019-3643-1-A	-	1.0000	041F4101.D		4
42	42	1	M2019-3643-1-B	-	1.0000	042F4201.D		4
43	43	1	M2019-3656-1-A	-	1.0000	043F4301.D		4

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
44	44	1	M2019-3656-1-B	-	1.0000	044F4401.D	4
45	45	1	M2019-3694-1-A	-	1.0000	045F4501.D	4
46	46	1	M2019-3694-1-B	-	1.0000	046F4601.D	4
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	M2019-3700-1-A	-	1.0000	049F4901.D	4
50	50	1	M2019-3700-1-B	-	1.0000	050F5001.D	4
51	51	1	M2019-3701-1-A	-	1.0000	051F5101.D	4
52	52	1	M2019-3701-1-B	-	1.0000	052F5201.D	4
53	53	1	M2019-3702-1-A	-	1.0000	053F5301.D	4
54	54	1	M2019-3702-1-B	-	1.0000	054F5401.D	4
55	55	1	M2019-3711-1-A	-	1.0000	055F5501.D	4
56	56	1	M2019-3711-1-B	-	1.0000	056F5601.D	4
57	57	1	M2019-3742-1-A	-	1.0000	057F5701.D	2
58	58	1	M2019-3742-1-B	-	1.0000	058F5801.D	2
59	59	1	M2019-3628-1-A	-	1.0000	059F5901.D	4
60	60	1	M2019-3628-1-B	-	1.0000	060F6001.D	4
61	61	1	QC2-2-A	-	1.0000	061F6101.D	4
62	62	1	QC2-2-B	-	1.0000	062F6201.D	4
63	63	1	INTERNAL STD BLK	-	1.0000	063F6301.D	2

Method file name: C:\Chem32\1\Data\08-20-19_SAMPLES\08-20-19_SAMPLES 2019-08-20 10-48-12\SHUTDOWN.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
64	64	1	EMPTY	-	1.0000	064F6401.D	0

08/21/19

The analysis of the samples extracted on 08/19/19 could not be completed due to the instrument malfunction. All the samples in the worklist # 3617 were re-extracted and analyzed on 08/20/19.

Cases are supervised by Nikka Bradley.

Galina Giso

Sequence File C:\Chem32\...9_SAMPLES\08-19-19_SAMPLES 2019-08-19 14-58-06\08-19-19_SAMPLES.S

Sample Summary

Sequence table: C:\Chem32\1\Data\08-19-19_SAMPLES\08-19-19_SAMPLES 2019-08-19 14-58-06\08-19-19_SAMPLES.S
Data directory path: C:\Chem32\1\Data\08-19-19_SAMPLES\08-19-19_SAMPLES 2019-08-19 14-58-06\
Logbook: C:\Chem32\1\Data\08-19-19_SAMPLES\08-19-19_SAMPLES 2019-08-19 14-58-06\08-19-19_SAMPLES.LOG
Sequence start: 8/19/2019 3:12:53 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\08-19-19_SAMPLES\08-19-19_SAMPLES 2019-08-19 14-58-06\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	GUTH 0.040 LOT19	-	1.0000	007F0701.D		4
8	8	1	GUTH 0.040 LOT19	-	1.0000	008F0801.D		4
9	9	1	GUTH 0.040 LOT19	-	1.0000	009F0901.D		4
10	10	1	GUTH 0.040 LOT19	-	1.0000	010F1001.D		4
11	11	1	GUTH 0.080 LOT19	-	1.0000	011F1101.D		4
12	12	1	GUTH 0.080 LOT19	-	1.0000	012F1201.D		4
13	13	1	GUTH 0.080 LOT19	-	1.0000	013F1301.D		4
14	14	1	GUTH 0.080 LOT19	-	1.0000	014F1401.D		4
15	15	1	GUTH 0.200 LOT19	-	1.0000	015F1501.D		4
16	16	1	GUTH 0.200 LOT19	-	1.0000	016F1601.D		4
17	17	1	GUTH 0.200 LOT19	-	1.0000	017F1701.D		4
18	18	1	GUTH 0.200 LOT19	-	1.0000	018F1801.D		4
19	19	1	M2019-3588-1-A	-	1.0000	019F1901.D		2
20	20	1	M2019-3588-1-B	-	1.0000	020F2001.D		2
21	21	1	M2019-3592-1-A	-	1.0000	021F2101.D		4
22	22	1	M2019-3592-1-B	-	1.0000	022F2201.D		4
23	23	1	M2019-3595-1-A	-	1.0000	023F2301.D		3

run sequence stopped 8/19/19 [signature]

[signature]