

















REVIEWED

By Anne Nord at 12:59 pm, Feb 23, 2022

AS

2/22/2022

Worklist: 5623

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2022-0446	1	BCK	BATS Proficiency Test	
P2022-0446	2	BCK	BATS Proficiency Test	
P2022-0446	3	BCK	BATS Proficiency Test	
P2022-0446	4	BCK	BATS Proficiency Test	
P2022-0468	1	BCK	Alcohol Analysis	
P2022-0469	1	BCK	Alcohol Analysis	
P2022-0470	3	BCK	Alcohol Analysis	
P2022-0471	1	BCK	Alcohol Analysis	
P2022-0484	1	BCK	Alcohol Analysis	
P2022-0490	1	BCK	Alcohol Analysis	
P2022-0491	1	BCK	Alcohol Analysis	
P2022-0492	1	BCK	Alcohol Analysis	
P2022-0503	1	BCK	Alcohol Analysis	
P2022-0520	1	BCK	Alcohol Analysis	
P2022-0526	1	BCK	Alcohol Analysis	
P2022-0527	1	BCK	Alcohol Analysis	

Request for Departure from an Analytical Method or Quality Standard

Deviation Number (assigned by QM): **BLA-22-01**

Date of Request: **1/21/2022**

Requestor/Discipline: Melissa (Nikka) Bradley/Blood Alcohol

Analytical Method/Quality Standard, Revision #: AM#1 Analysis for Volatiles by Headspace GC/ 4.3.9

Temporary or Permanent Deviation: Permanent

Scope of Deviation There is a noticeable increased drift of internal standard (n-propanol signals) from the calibrators, beginning of the run and towards the end of the sample run that is consistent in multiple batches of blood alcohol runs. Because all the samples that are analyzed are being compared to calibrators that are performed at the beginning of the run, the n-propanol signal of end samples tend to be outside or close to being outside of the +/- 20% of the mean value from the calibration curve used. Despite this drift the values of known control samples are within acceptable limits.

Deviation Request

4.3.9.1.1 The average values for the internal standard will be established by averaging the IS counts throughout the calibration curve samples.

Requesting that the internal standard monitoring average be changed to average the aqueous and matrix controls within the run.

4.3.9.1.1 The average values for the internal standard will be established by averaging the IS counts from the aqueous control and all matrix blood control samples.

Technical Justification for Analytical Method Deviations:

The designed purpose of the internal standard monitoring is to evaluate the quality of injection of each sample. There is a gradual increase of internal standard response from the beginning of the batch (calibrators and early samples) to the end that is inherent to the current instrument set up as shown in trends from previous batches in multiple laboratories. Attempts to pre-condition/warm up the instrument using by running a pre-batch sequence utilizing old calibrator/blank samples prior to running a new calibration curve did not appear to minimize this occurrence. Furthermore, it can be seen that the drifting trend is not due to the extraction procedure because some of the later batch samples were extracted prior to the samples that are injected during the run. It is worth noting that despite this

TS

trend, the values of the known control samples are still within the specified acceptable range. By utilizing known control n-propanol signals throughout the batch, any potential drift will be taken into account while still being able to monitor a possible mis-injection or partial injection throughout the batch/sequence.

This deviation will have an expiration date of July 1st, 2022.

Technical Review

Departure approved

Comments: Forms will be updated to reflect the new process concurrent with the deviation.

Departure Not Approved

Comments:

Approver:
Title: Discipline Lead

Date: 1/21/22

Quality Review

Quality Approver: Jason Crowe
Title: Quality Manager
Date: 01/24/2022



Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number: ML600GB9897

Volatiles Quality Assurance Controls

Run Date(s): 02/22/2022

Calibration Date: (if different)

Worklist #: 5623

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-23	1907006	0.0764	0.0688-0.0840	0.0730 g/100cc 0.0793 g/100cc g/100cc
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.2137 g/100cc g/100cc
Multi-Component mixture:		Exp:	Lot #	Column1	Column2
Curve Fit:		10/24/2022	FN06041902	0.99999	0.99998

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0499	0.0504	0.0005	0.0501
100	0.100	0.090 - 0.110	0.1002	0.1002	0	0.1002
200	0.200	0.180 - 0.220	0.2002	0.1998	0.0004	0.2
300	0.300	0.270 - 0.330	0.2993	0.2988	0.0005	0.299
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5002	0.5006	0.0004	0.5004
Internal Standard	Average	(-) 20%		(+) 20%		
N-Propanol:	147390.4	117912.4		176868.5		

Aqueous Controls

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

Internal Standard Monitoring Worksheet

Worksheet #: 5623 **Run Date(s):** 02/22/2022

Internal Standard Solution: 010522 Prep Date: 01/05/22 Exp Date: 07/05/22

Sample Name	Column 1 Value	Column 2 Value	Average
0.080	141077	150154	145615.5
0.080	141584	150589	146086.5
QC1	143216	152803	148009.5
QC1	142476	151826	147151
QC1	147205	157191	152198
QC1	151696	162164	156930
QC1			#DIV/0!
QC1			#DIV/0!
QC2	137991	146745	142368
QC2	136410	145120	140765
QC2			#DIV/0!
QC2			#DIV/0!
QC2			#DIV/0!
QC2			#DIV/0!

Combined Average	(-)20%	(+)20%
147390.4	117912.4	176868.5

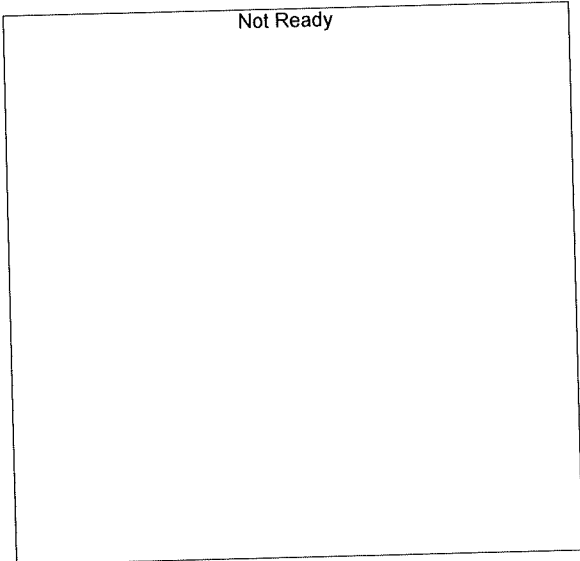
R

B

Calibration Table

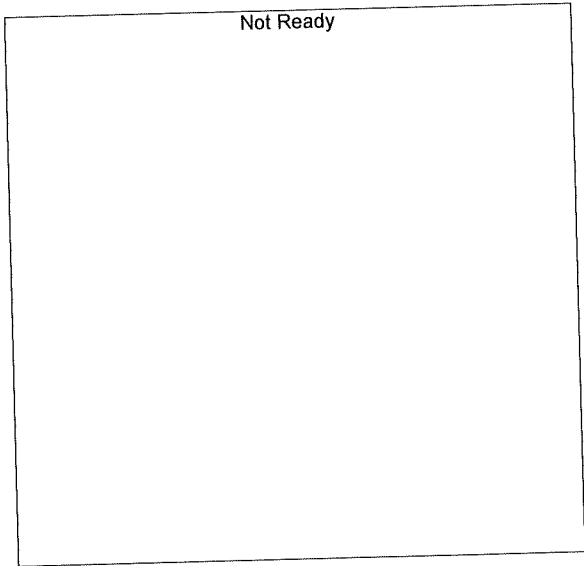
Laboratory: Pocatello
Instrument Name : GC2030-HS20

<<Data File>> :C:\LabSolutions\Data\2022\2-22-22 TS\ALCOHOL.gcm
Method File :C:\LabSolutions\Data\2022\2-22-22 TS\02-22-22 TS_POST.gcb
Batch File :
Date Acquired :2/22/2022 2:45:22 PM
Date Created :2/22/2022 2:41:57 PM
Date Modified :2/23/2022 7:46:08 AM



Name : METHANOL
Detector Name: FID1
Function : $f(x)=0*x+0$
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

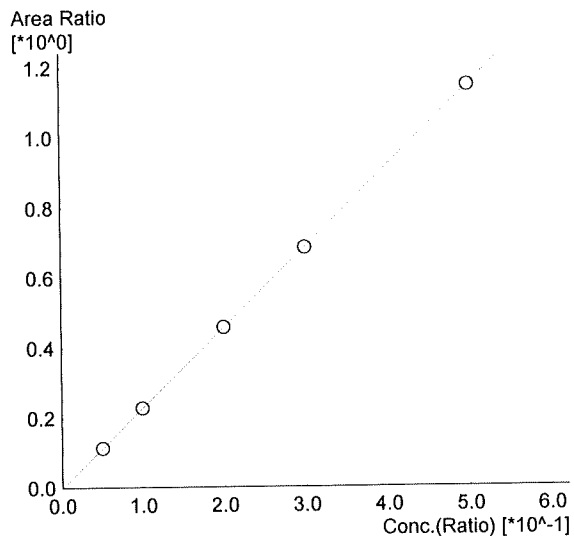
#	Conc.	Area	Std. Conc.	Data File Name
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Name : ACETALDEHYDE
Detector Name: FID1
Function : $f(x)=0*x+0$
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

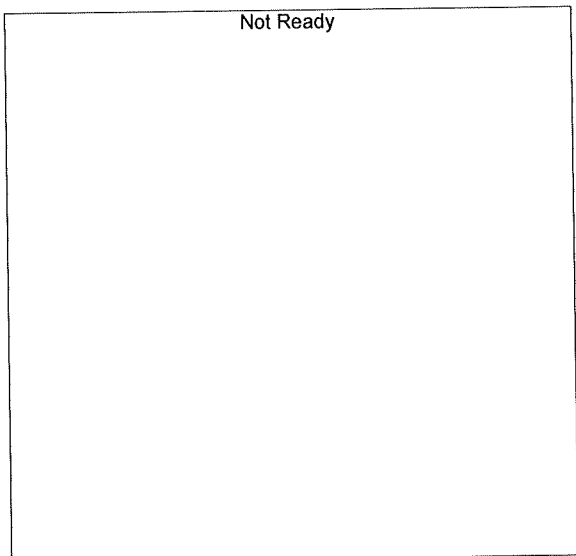
#	Conc.	Area	Std. Conc.	Data File Name
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15



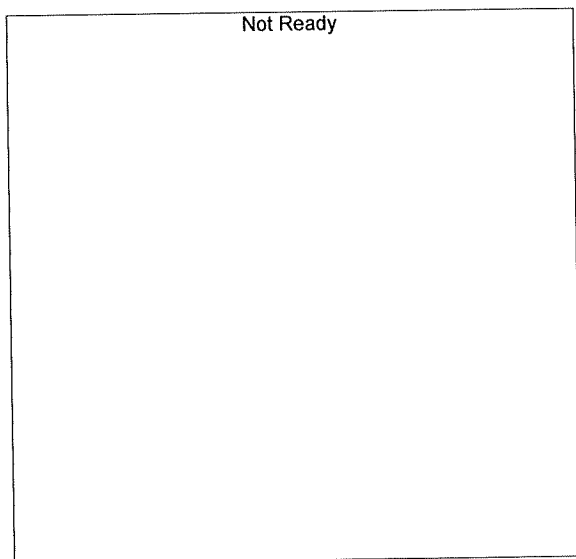
Name : ETHANOL
 Detector Name: FID1
 Function : $f(x)=2.29271*x-0.00217340$
 R² value= 0.9999951 ✓
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
1	0.050	15932	0.0499	0.050_2222022_001.gcd
2	0.100	32111	0.1002	0.100_2222022_002.gcd
3	0.200	65096	0.2002	0.200_2222022_003.gcd
4	0.300	99165	0.2993	0.300_2222022_004.gcd
5	0.500	166397	0.5002	0.500_2222022_005.gcd



Name : ISOPROPYL ALCOHOL
 Detector Name: FID1
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Not Through

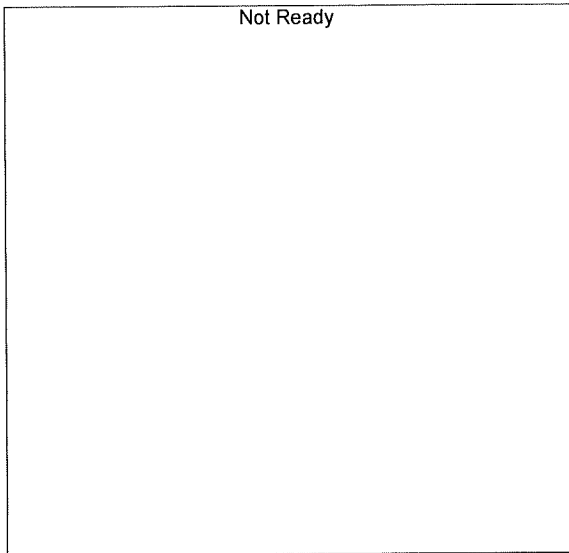
#	Conc.	Area	Std. Conc.	Data File Name
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Name : ACETONE
 Detector Name: FID1
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Not Through

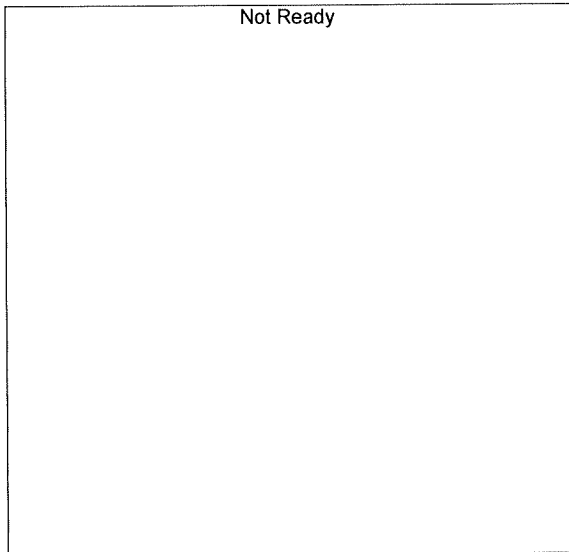
#	Conc.	Area	Std. Conc.	Data File Name
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TS



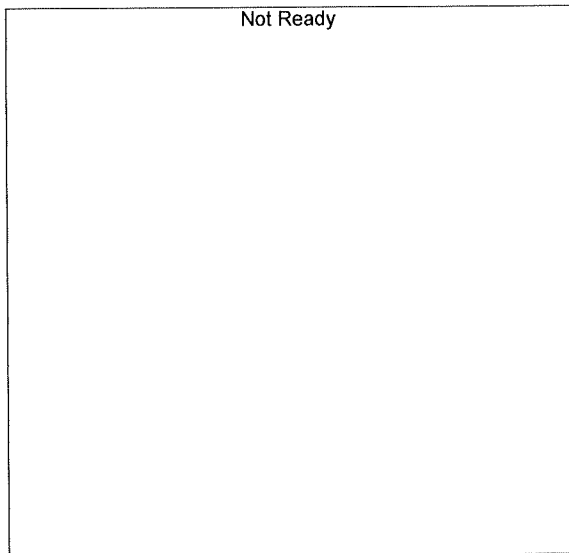
Name : DFE
Detector Name: FID1
Function : $f(x)=0*x+0$
R² value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
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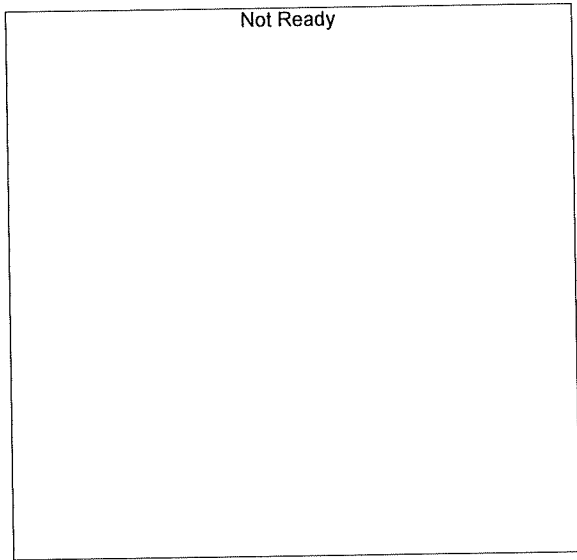
Name : TFE
Detector Name: FID1
Function : $f(x)=0*x+0$
R² value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
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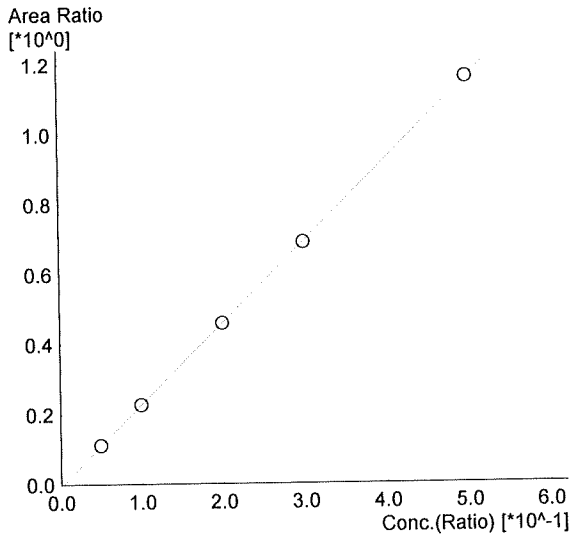
Name : ACETALDEHYDE
Detector Name: FID2
Function : $f(x)=0*x+0$
R² value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
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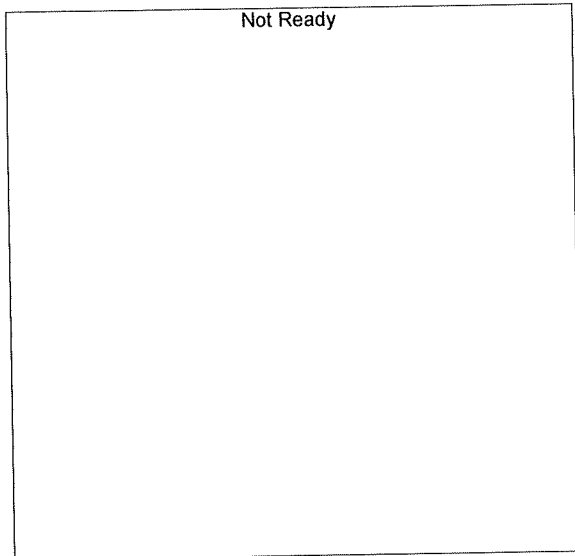
Name : METHANOL
 Detector Name: FID2
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
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Name : ETHANOL
 Detector Name: FID2
 Function : $f(x)=2.32950*x-0.00700438$
 R² value= 0.9999854 ✓
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
1	0.050	16261	0.0504	0.050_2222022_001.gcd
2	0.100	33367	0.1002	0.100_2222022_002.gcd
3	0.200	68491	0.1998	0.200_2222022_003.gcd
4	0.300	105127	0.2988	0.300_2222022_004.gcd
5	0.500	177708	0.5006	0.500_2222022_005.gcd



Name : ACETONE
 Detector Name: FID2
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
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TS

Not Ready

Name : ISOPROPYL ALCOHOL
Detector Name: FID2
Function : $f(x)=0*x+0$
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
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Not Ready

Name : DFE
Detector Name: FID2
Function : $f(x)=0*x+0$
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
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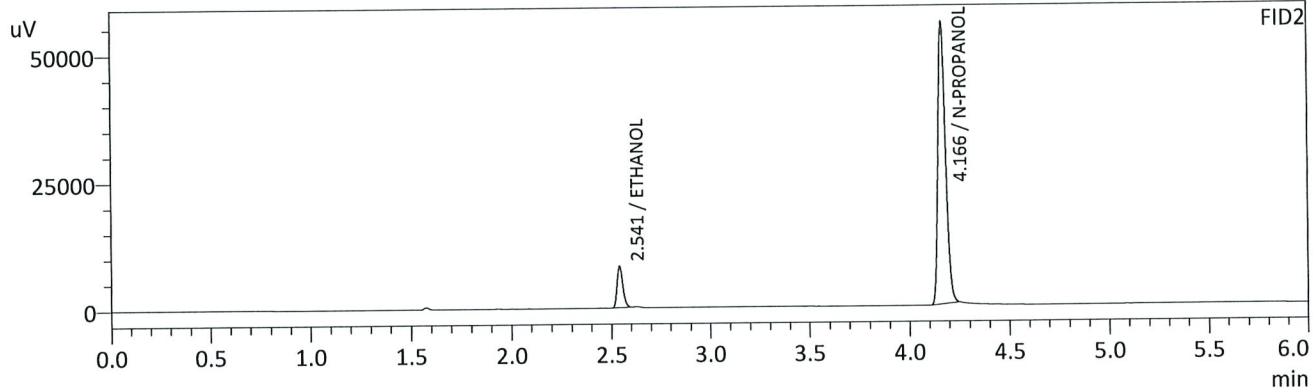
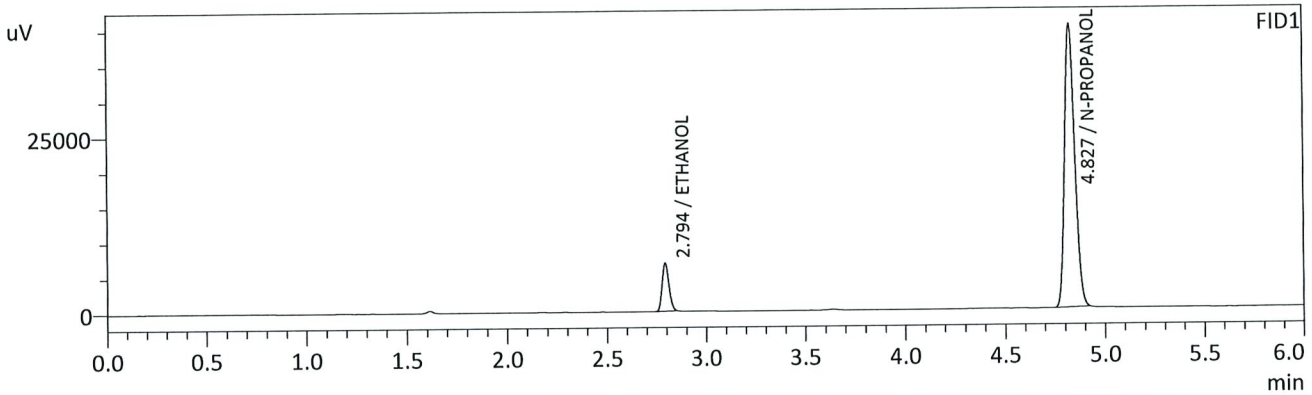
Not Ready

Name : TFE
Detector Name: FID2
Function : $f(x)=0*x+0$
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
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TS

Sample Name : 0.050
 Vial # : 1
 Data Filename : 0.050_2222022_001.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-22-22 TS_POST.gcb
 Date Acquired : 2/22/2022 2:07:16 PM
 Date Processed : 2/23/2022 7:46:03 AM
 C:\LabSolutions\Data\2022\2-22-22 TS\ALCOHOL.gcm



FID1

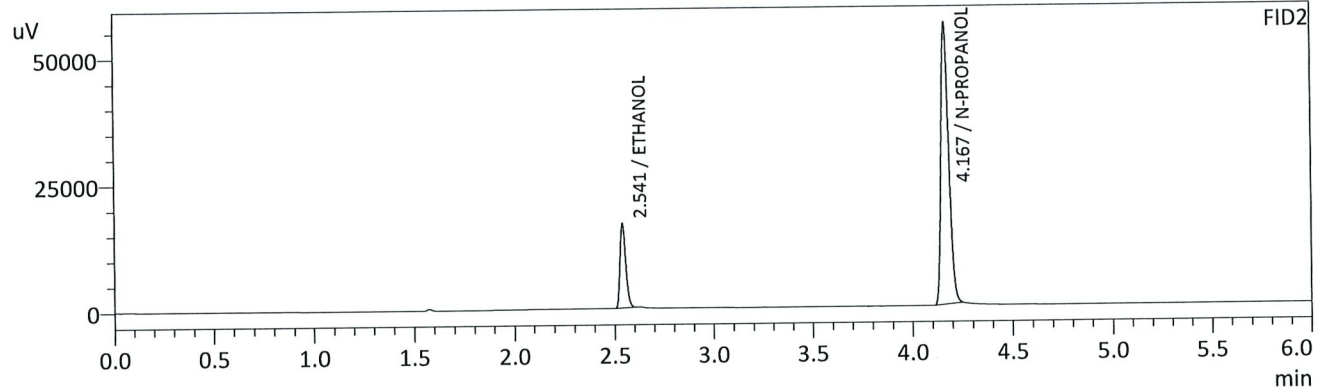
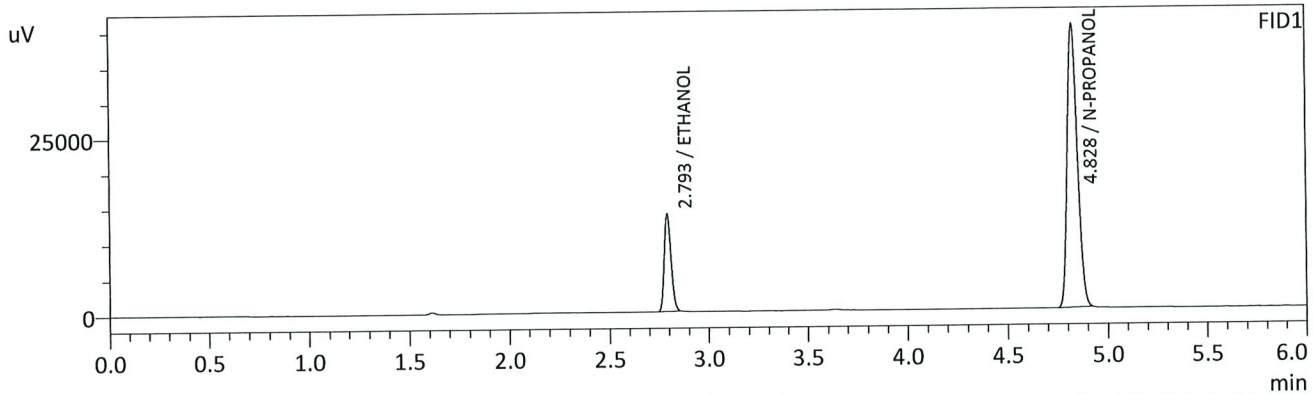
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0499	g/100cc	15932	6778
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	141739	40101
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0504	g/100cc	16261	8088
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	147274	55294
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Sample Name : 0.100
 Vial # : 2
 Data Filename : 0.100_2222022_002.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-22-22 TS_POST.gcb
 Date Acquired : 2/22/2022 2:16:45 PM
 Date Processed : 2/23/2022 7:46:04 AM
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FID1

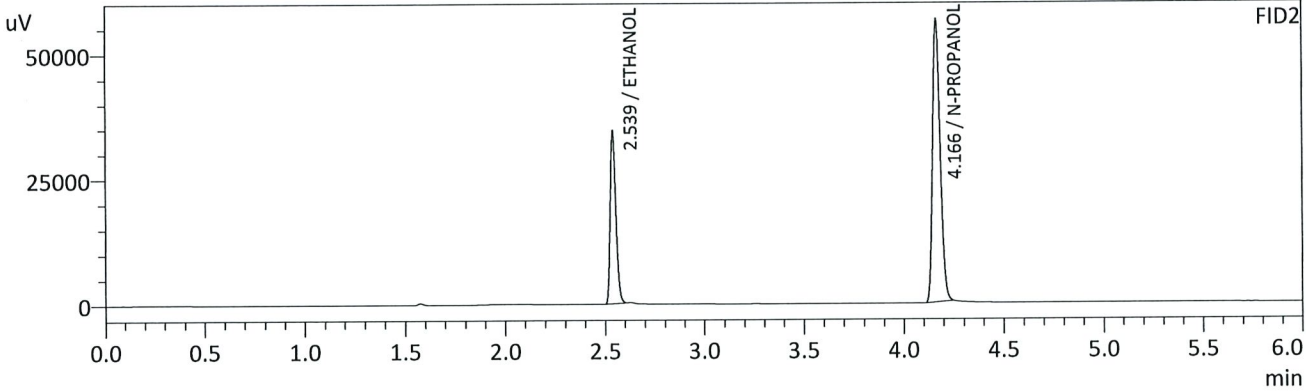
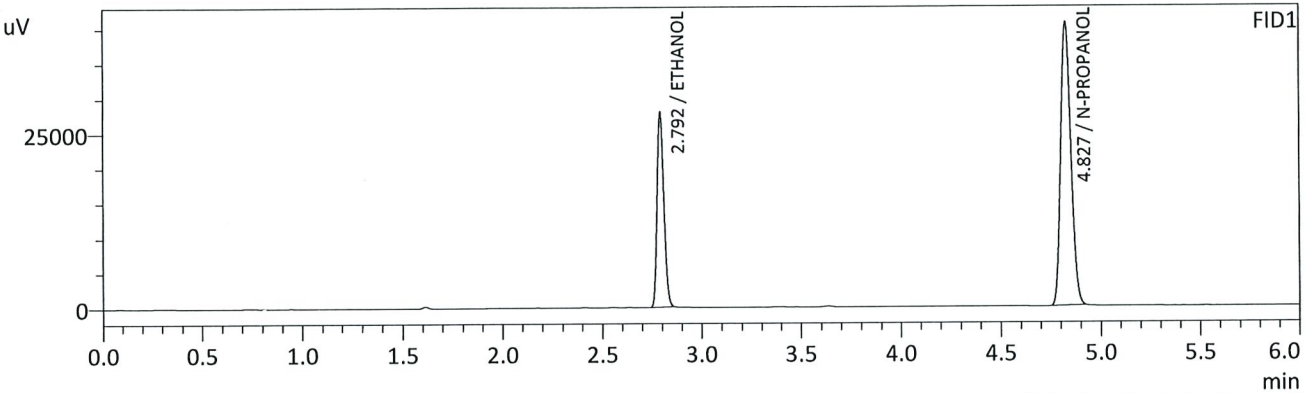
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.1002	g/100cc	32111	13728
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	141112	40109
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.1002	g/100cc	33367	16659
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	147349	55490
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Sample Name : 0.200
 Vial # : 3
 Data Filename : 0.200_2222022_003.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-22-22 TS_POST.gcb
 Date Acquired : 2/22/2022 2:26:06 PM
 Date Processed : 2/23/2022 7:46:05 AM
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FID1

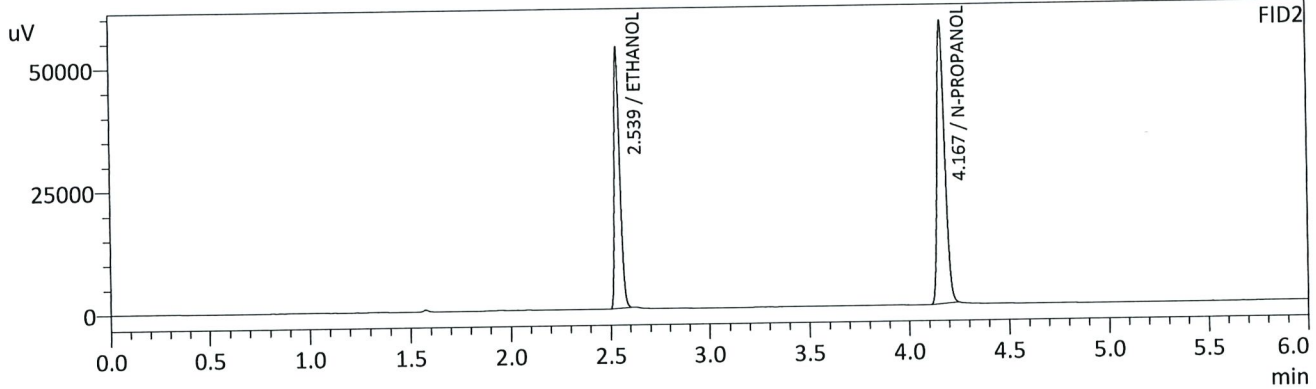
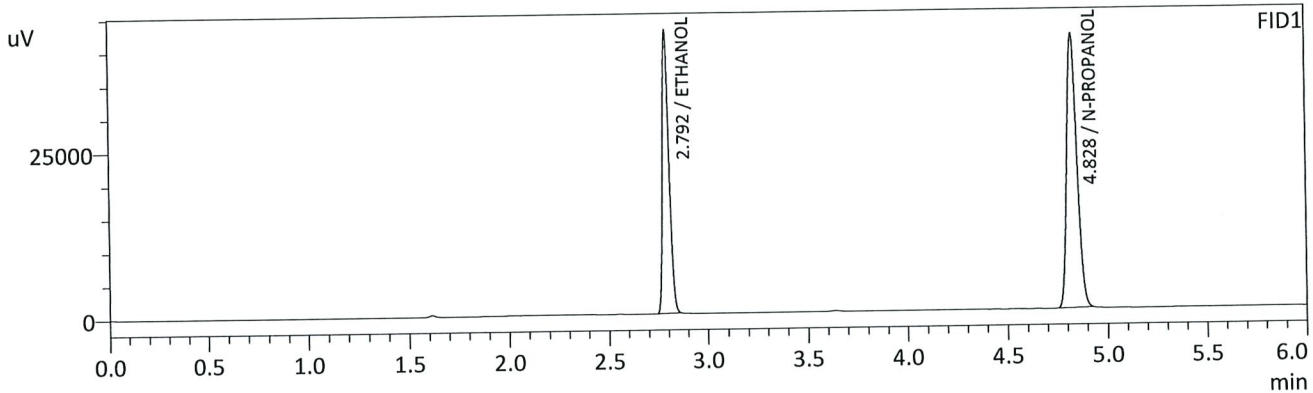
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2002	g/100cc	65096	27745
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	142481	40511
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.1998	g/100cc	68491	34083
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	149376	56372
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

B

Sample Name : 0.300
 Vial # : 4
 Data Filename : 0.300_2222022_004.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-22-22 TS_POST.gcb
 Date Acquired : 2/22/2022 2:35:50 PM
 Date Processed : 2/23/2022 7:46:07 AM
 C:\LabSolutions\Data\2022\2-22-22 TS\ALCOHOL.gcm



FID1

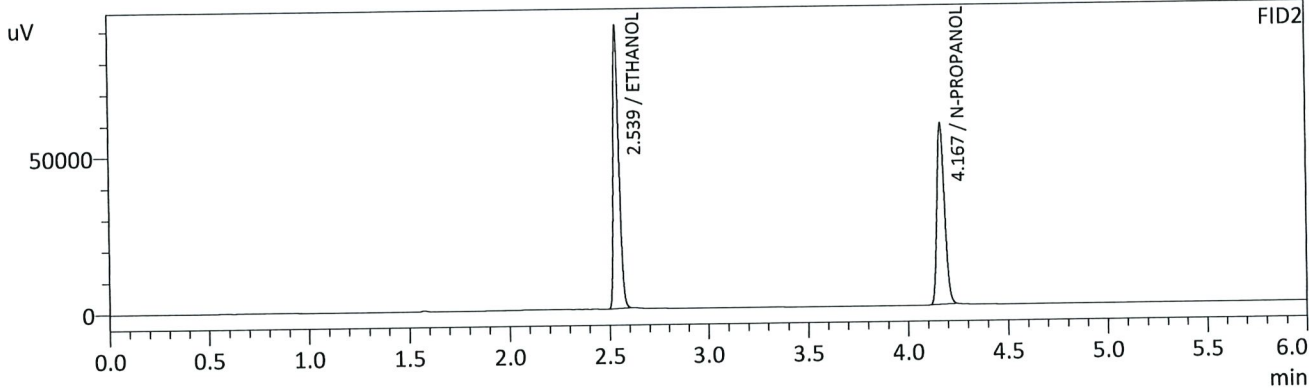
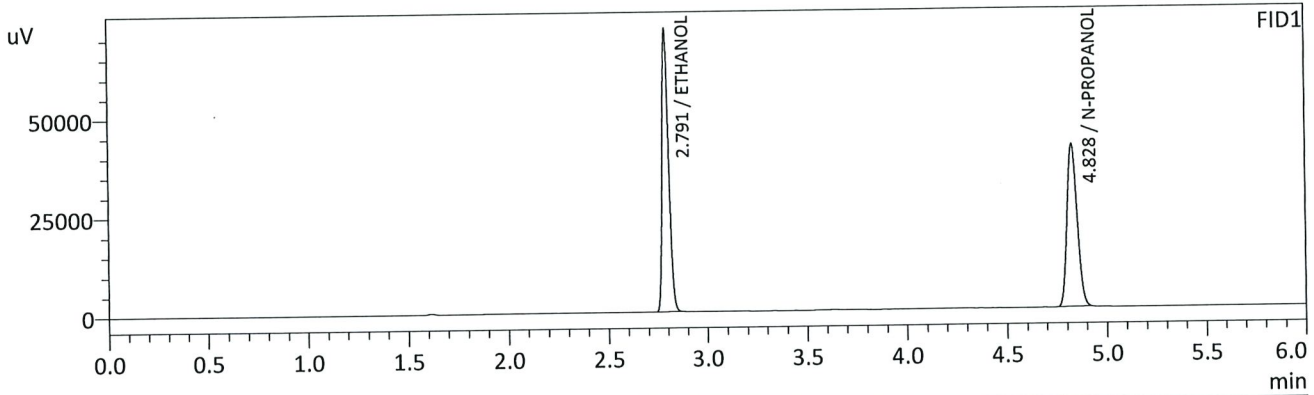
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2993	g/100cc	99165	42172
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	144958	41209
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2988	g/100cc	105127	52314
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	152517	57370
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

B

Sample Name : 0.500
 Vial # : 5
 Data Filename : 0.500_2222022_005.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-22-22 TS_POST.gcb
 Date Acquired : 2/22/2022 2:45:22 PM
 Date Processed : 2/23/2022 7:46:08 AM
 C:\LabSolutions\Data\2022\2-22-22 TS\ALCOHOL.gcm



FID1

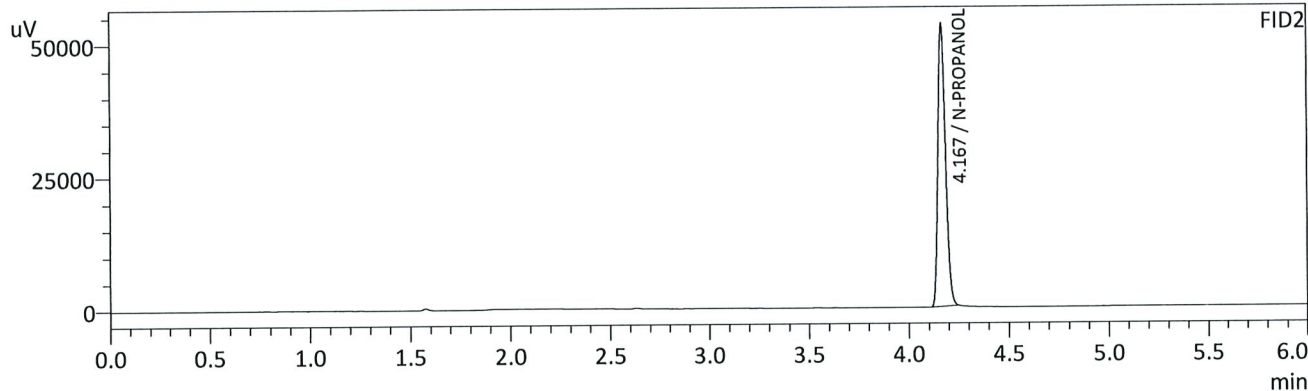
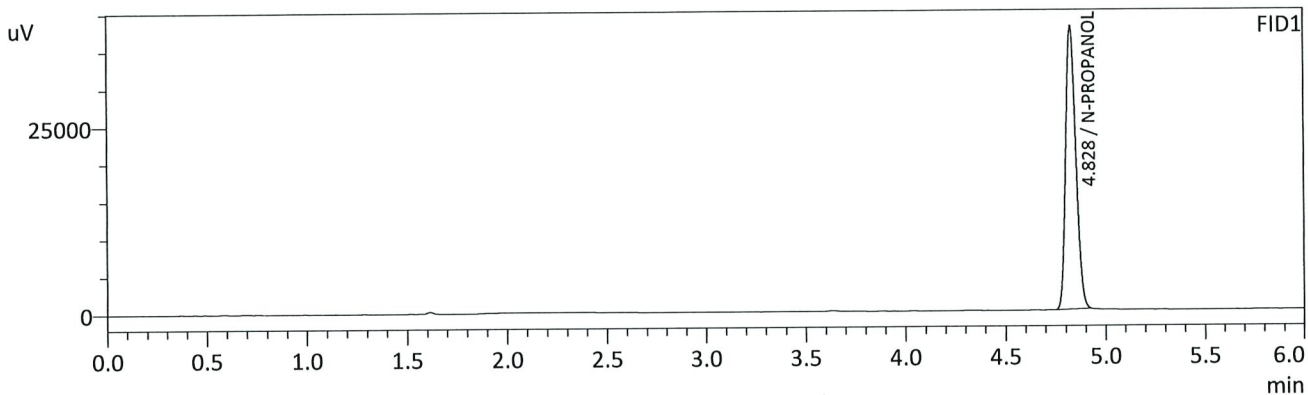
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.5002	g/100cc	166397	70983
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	145347	41184
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.5006	g/100cc	177708	89048
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	153297	57727
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Sample Name : INT STD BLK 1
 Vial # : 6
 Data Filename : INT STD BLK 1_2222022_006.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-22-22 TS_POST.gcb
 Date Acquired : 2/22/2022 2:54:41 PM
 Date Processed : 2/23/2022 7:46:11 AM
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FID1

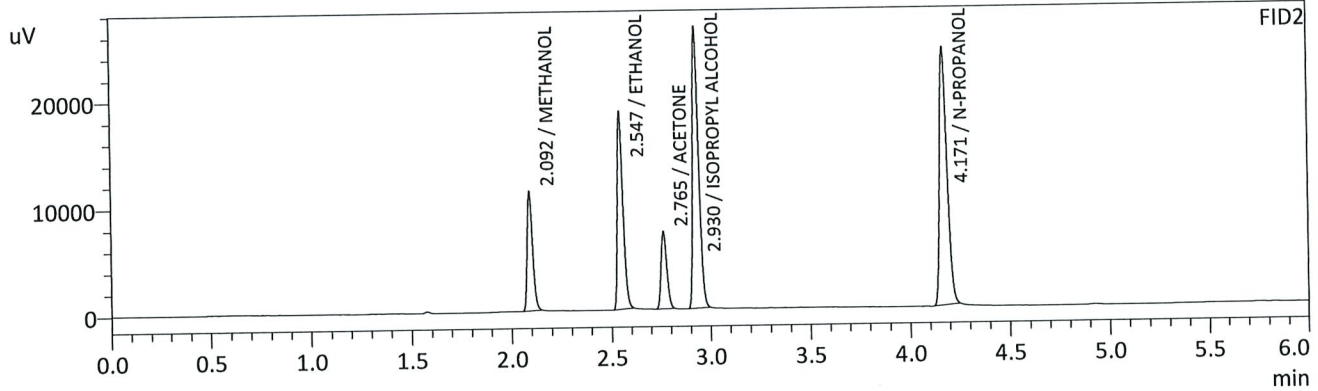
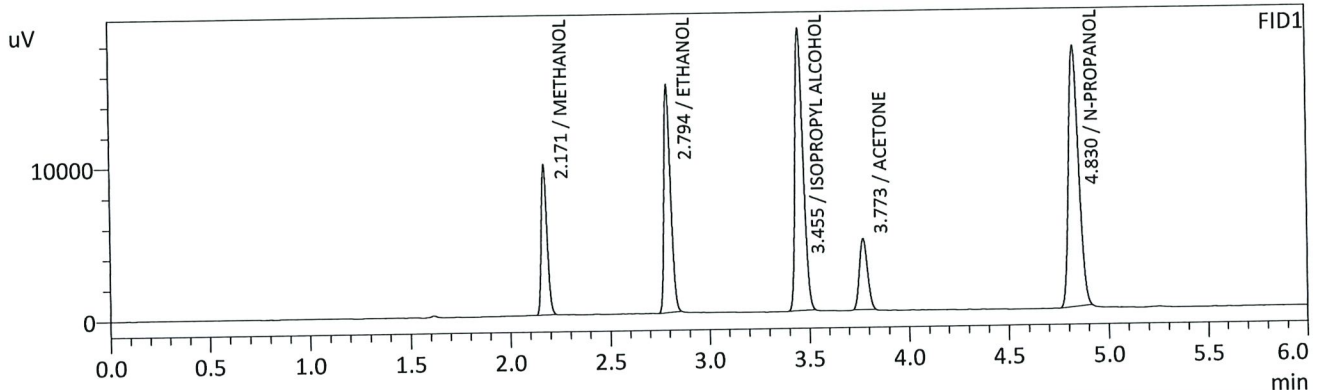
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	132975	37759
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	141398	53181
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

B

Sample Name : MULTI-COMP MIX
 Vial # : 7
 Data Filename : MULTI-COMP MIX_2222022_007.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-22-22 TS_POST.gcb
 Date Acquired : 2/22/2022 3:04:25 PM
 Date Processed : 2/23/2022 7:46:13 AM
 C:\LabSolutions\Data\2022\2-22-22 TS\ALCOHOL.gcm



FID1

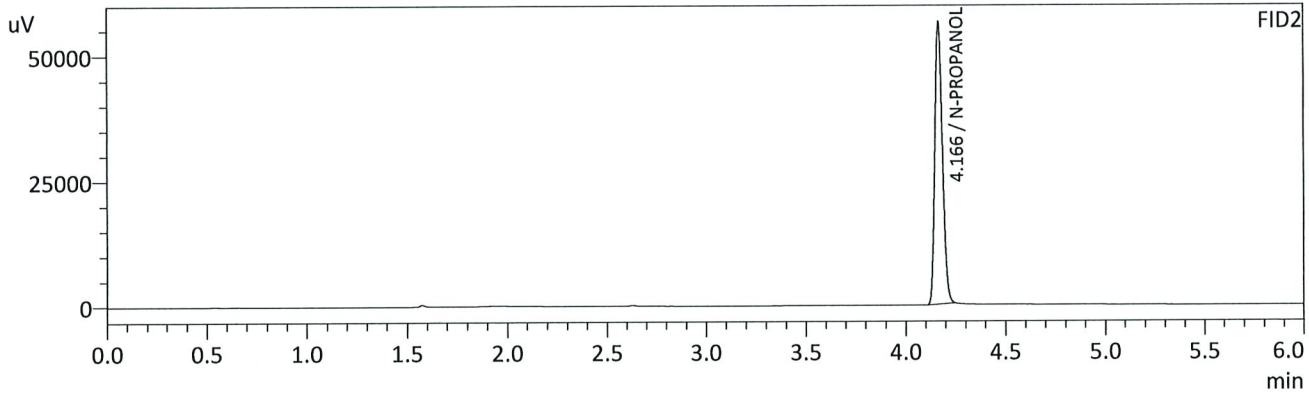
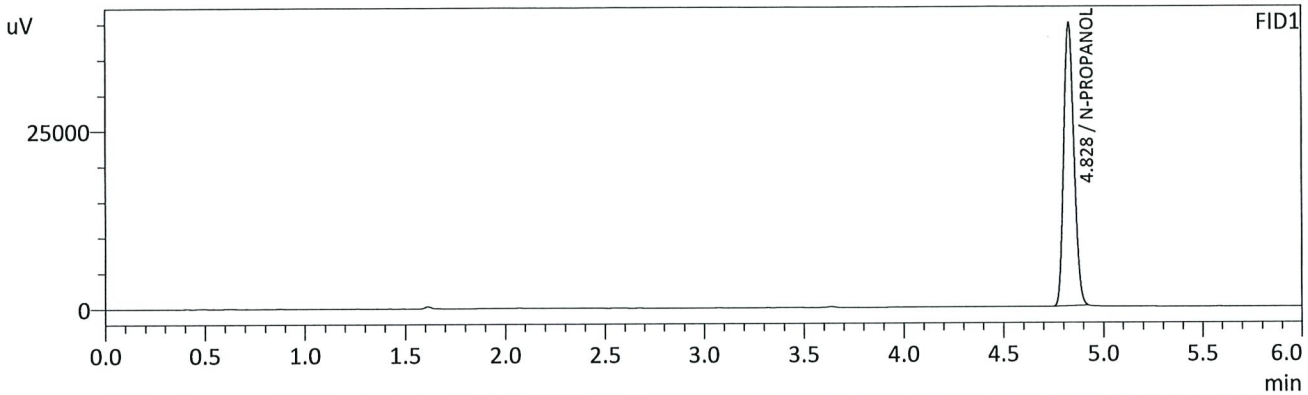
Name	Conc.	Unit	Area	Height
METHANOL	0.0000	g/100cc	19742	9763
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2520	g/100cc	34305	14921
ISOPROPYL ALCOHOL	0.0000	g/100cc	51264	18513
ACETONE	0.0000	g/100cc	13039	4639
N-PROPANOL	0.0000	g/100cc	59583	17061
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	0.0000	g/100cc	20712	11079
ETHANOL	0.2497	g/100cc	36341	18462
ACETONE	0.0000	g/100cc	14358	7210
ISOPROPYL ALCOHOL	0.0000	g/100cc	54809	26236
N-PROPANOL	0.0000	g/100cc	63236	24055
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

Sample Name : INT STD BLK 2
 Vial # : 8
 Data Filename : INT STD BLK 2_2222022_008.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-22-22 TS_POST.gcb
 Date Acquired : 2/22/2022 3:13:56 PM
 Date Processed : 2/23/2022 7:46:14 AM
 C:\LabSolutions\Data\2022\2-22-22 TS\ALCOHOL.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	140241	39804
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	149089	56237
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC 1-1

Item #

Analysis Date(s): 02/22/2022

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0732	0.0727	0.0005	0.0729	0.0001	0.0730
(g/100cc)	0.0733	0.0728	0.0005	0.0730		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information*Instrument information is stored centrally.*

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

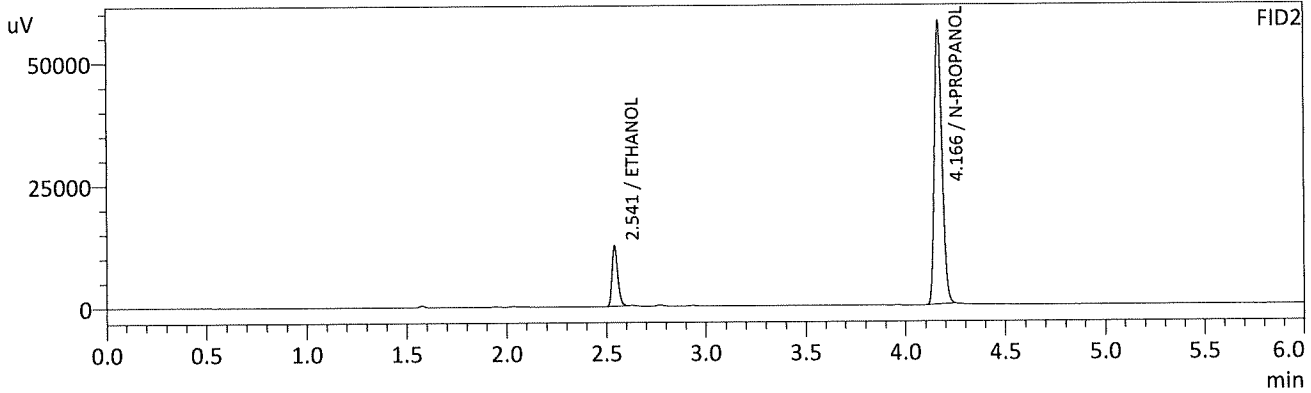
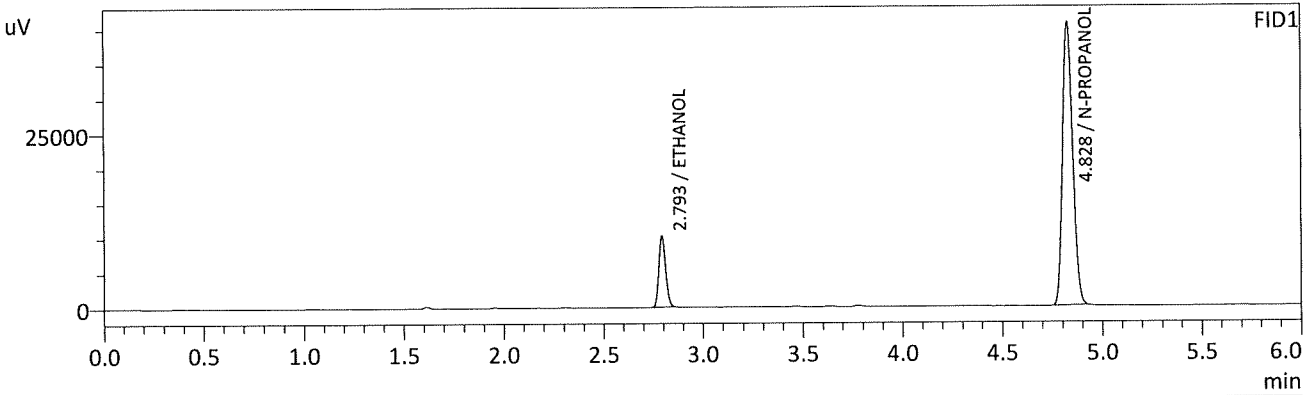
Reporting of Results**Uncertainty of Measurement (UM%): 5.00%**

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.

Sample Name : QC-1-1-A
 Vial # : 9
 Data Filename : QC-1-1-A_2222022_009.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-22-22 TS_POST.gcb
 Date Acquired : 2/22/2022 3:23:13 PM
 Date Processed : 2/23/2022 7:46:16 AM
 C:\LabSolutions\Data\2022\2-22-22 TS\ALCOHOL.gcm



FID1

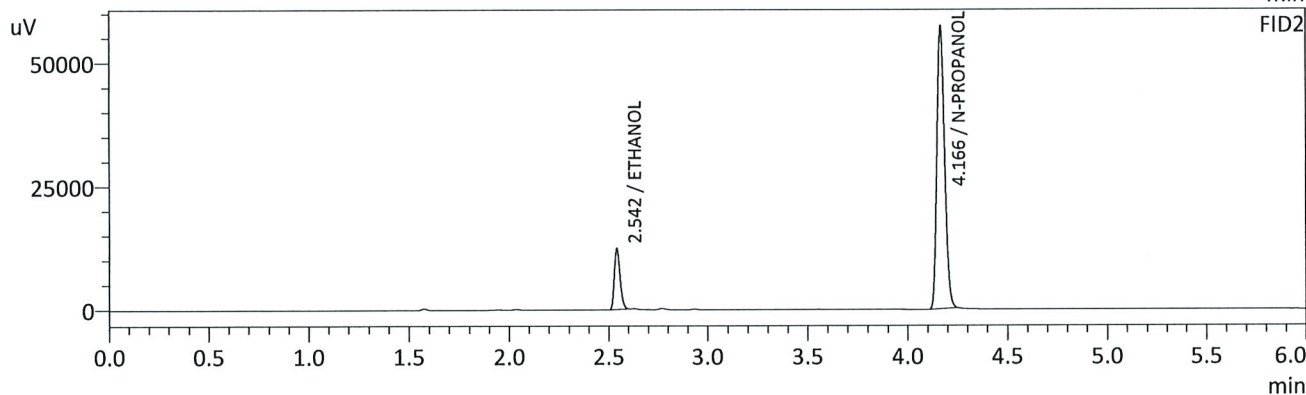
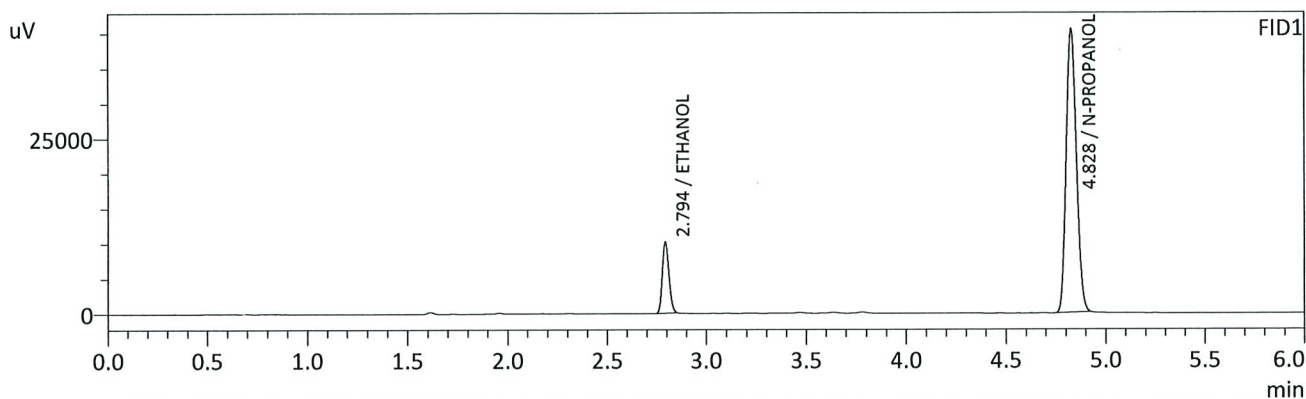
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0732	g/100cc	23734	10165
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	143216	40625
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0727	g/100cc	24816	12395
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	152803	57807
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

B

Sample Name : QC-1-1-B
 Vial # : 10
 Data Filename : QC-1-1-B_2222022_010.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-22-22 TS_POST.gcb
 Date Acquired : 2/22/2022 3:32:58 PM
 Date Processed : 2/23/2022 7:46:18 AM
 C:\LabSolutions\Data\2022\2-22-22 TS\ALCOHOL.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0733	g/100cc	23662	10125
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	142476	40444
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0728	g/100cc	24699	12333
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	151826	57159
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

B

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: 0.08 QA Item # Analysis Date(s): 02/22/2022

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0801	0.0797	0.0004	0.0799	0.0004	0.0801
(g/100cc)	0.0808	0.0799	0.0009	0.0803		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information*Instrument information is stored centrally.*

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

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

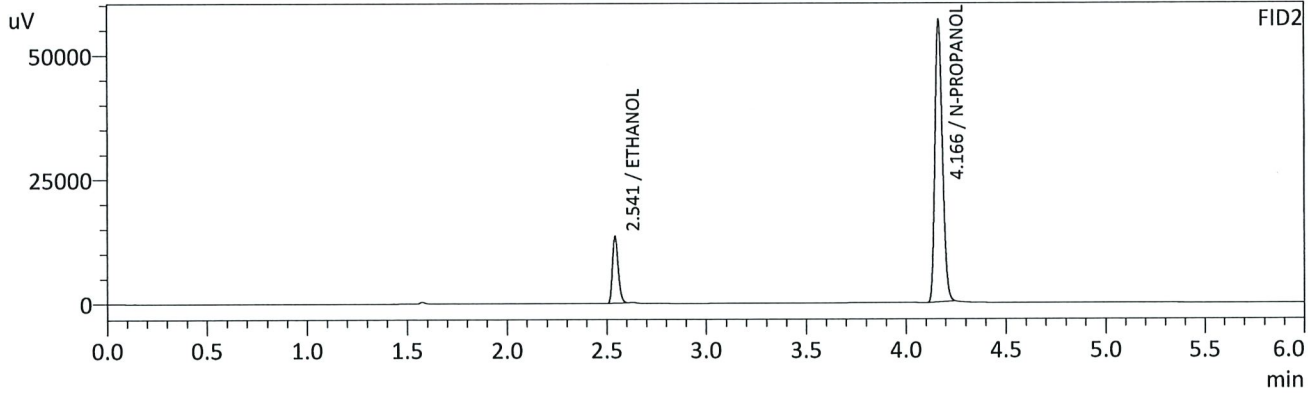
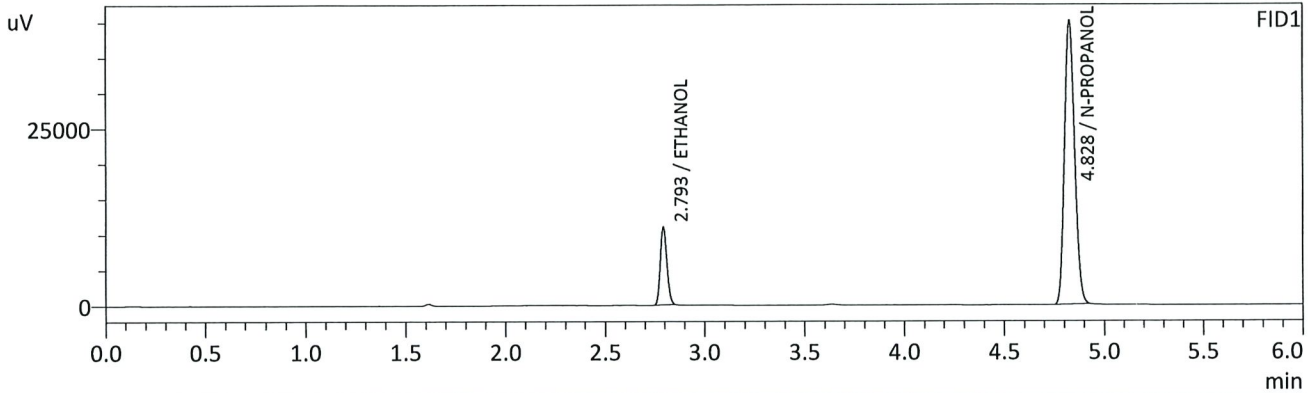
Overall Mean (g/100cc)	Low	High	5% of Mean
0.080	0.076	0.084	0.004

	Reported Result	
	0.080	

Calibration and control data are stored centrally.

TS

Sample Name : 0.08 QA - A
 Vial # : 11
 Data Filename : 0.08 QA - A_2222022_011.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-22-22 TS_POST.gcb
 Date Acquired : 2/22/2022 3:42:29 PM
 Date Processed : 2/23/2022 7:46:19 AM
 C:\LabSolutions\Data\2022\2-22-22 TS\ALCOHOL.gcm



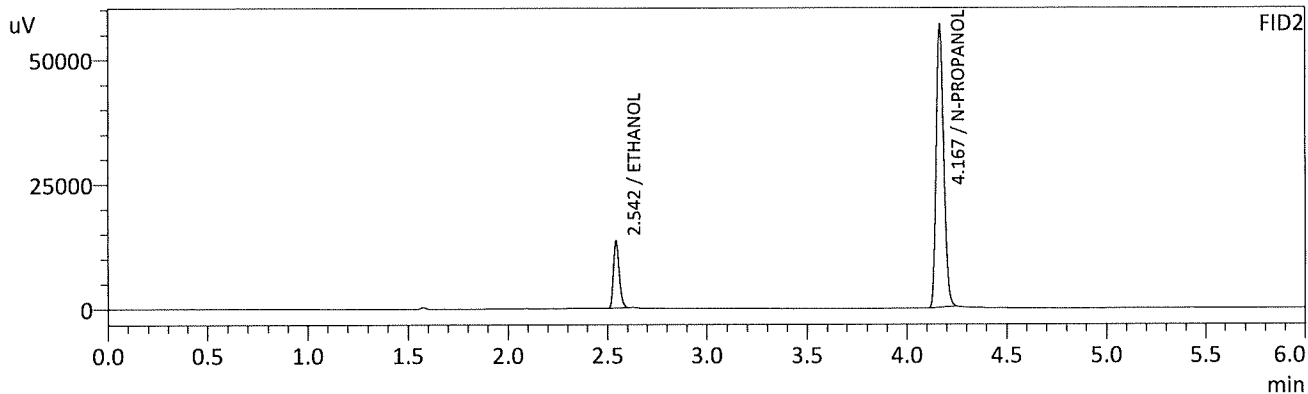
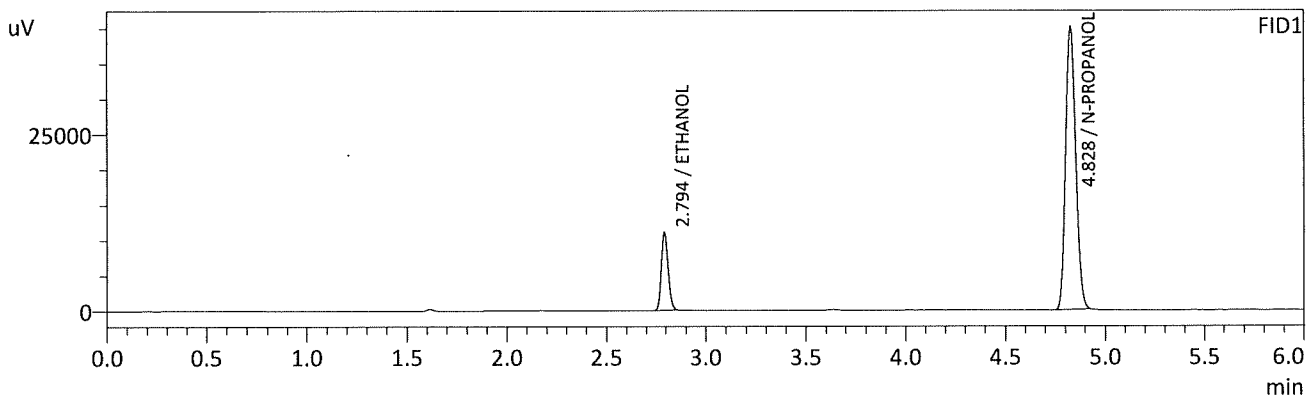
FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0801	g/100cc	25631	10975
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	141077	40038
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0797	g/100cc	26831	13406
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	150154	56725
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name : 0.08 QA - B
 Vial # : 12
 Data Filename : 0.08 QA - B_2222022_012.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-22-22 TS_POST.gcb
 Date Acquired : 2/22/2022 3:51:47 PM
 Date Processed : 2/23/2022 7:46:21 AM
 C:\LabSolutions\Data\2022\2-22-22 TS\ALCOHOL.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0808	g/100cc	25924	11043
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	141584	40098
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0799	g/100cc	26996	13475
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	150589	56499
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

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VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC 2-1

Item #

Analysis Date(s): 02/22/2022

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2147	0.2120	0.0027	0.2133	0.0008	0.2137
(g/100cc)	0.2154	0.2129	0.0025	0.2141		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

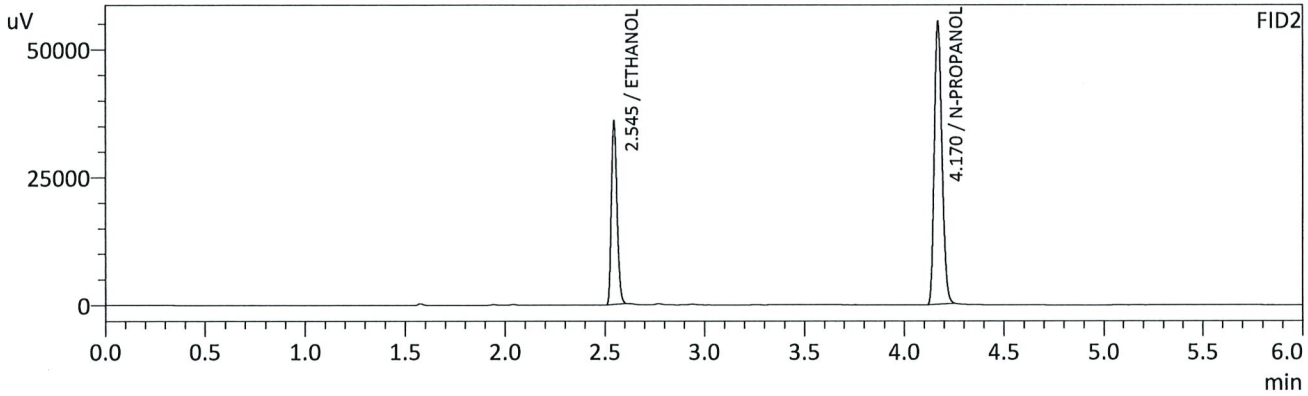
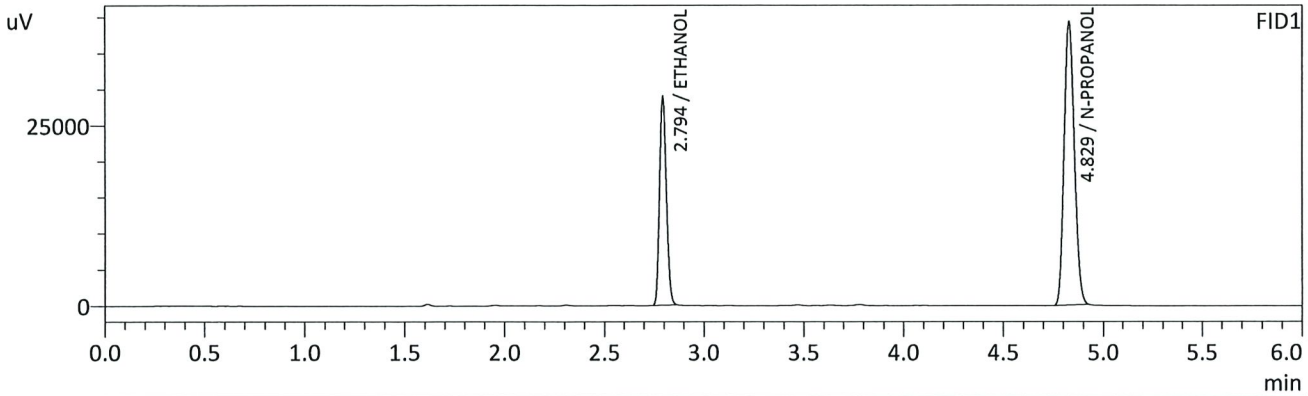
Overall Mean (g/100cc)	Low	High	5% of Mean
0.213	0.202	0.224	0.011

Reported Result	
0.213	

Calibration and control data are stored centrally.

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Sample Name : QC-2-1-A
 Vial # : 31
 Data Filename : QC-2-1-A_2222022_031.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-22-22 TS_POST.gcb
 Date Acquired : 2/22/2022 6:52:51 PM
 Date Processed : 2/23/2022 7:46:45 AM
 C:\LabSolutions\Data\2022\2-22-22 TS\ALCOHOL.gcm



FID1

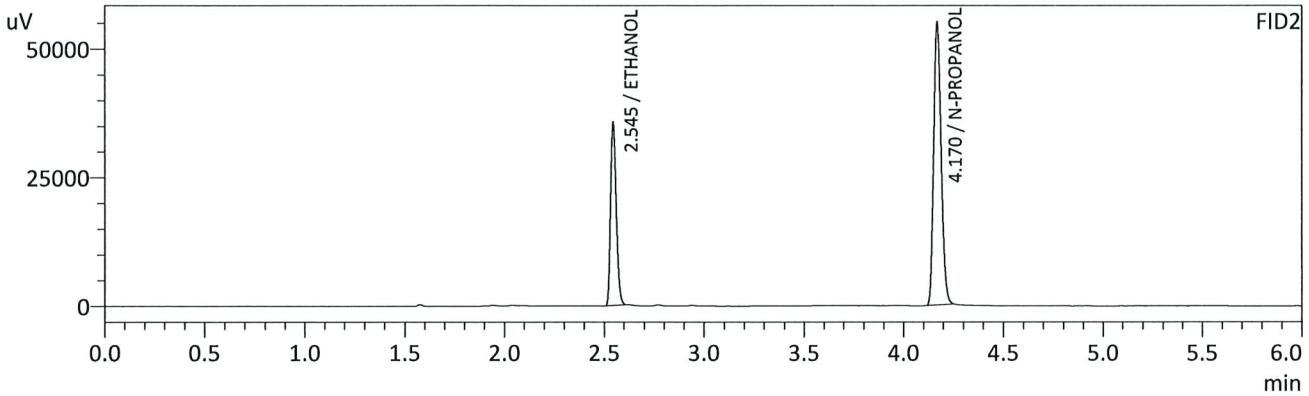
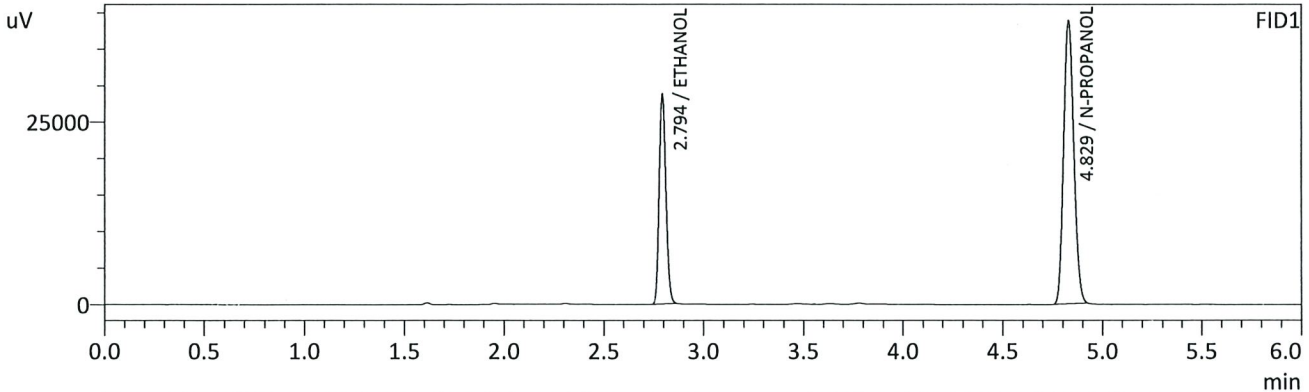
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2147	g/100cc	67638	28876
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	137991	39206
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2120	g/100cc	71453	35756
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	146745	55305
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

Sample Name : QC-2-1-B
 Vial # : 32
 Data Filename : QC-2-1-B_2222022_032.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-22-22 TS_POST.gcb
 Date Acquired : 2/22/2022 7:02:20 PM
 Date Processed : 2/23/2022 7:46:46 AM
 C:\LabSolutions\Data\2022\2-22-22 TS\ALCOHOL.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2154	g/100cc	67083	28676
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	136410	38764
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2129	g/100cc	70973	35541
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	145120	54923
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

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Volatiles BAC Casefile Worksheet

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC 1-2

Item #

Analysis Date(s): 02/22/2022

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0798	0.0784	0.0014	0.0791	0.0004	0.0793
(g/100cc)	0.0801	0.0789	0.0012	0.0795		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.079	0.075	0.083	0.004

Reported Result

0.079

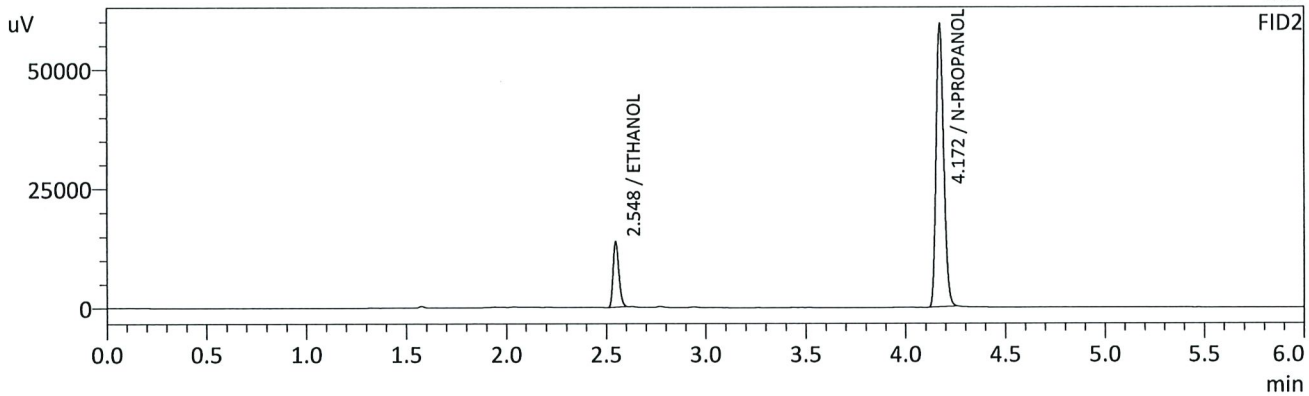
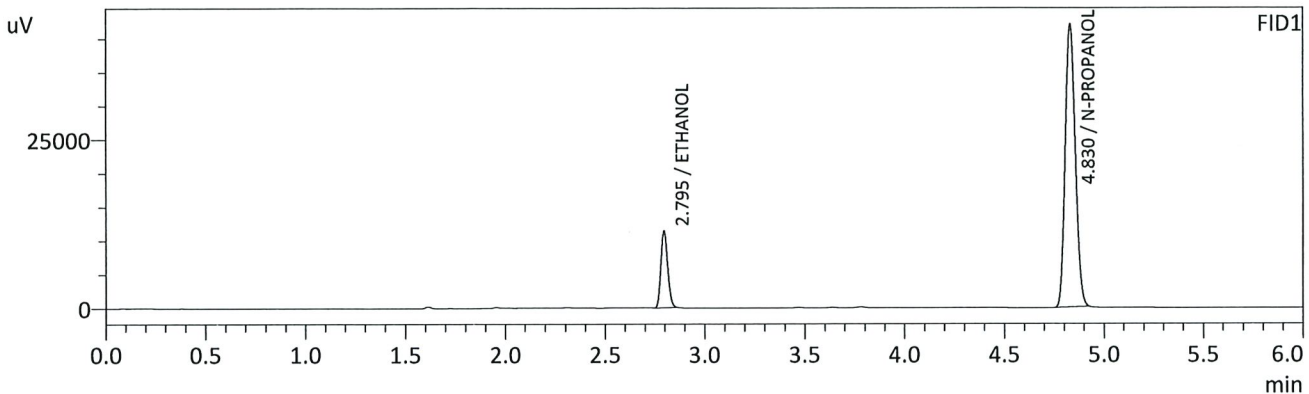
Calibration and control data are stored centrally.

Revision: 1

Issue Date: 12/29/2021

B

Sample Name : QC1-2-A
 Vial # : 47
 Data Filename : QC1-2-A_2222022_047.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-22-22 TS_POST.gcb
 Date Acquired : 2/22/2022 9:25:06 PM
 Date Processed : 2/23/2022 7:47:06 AM
 C:\LabSolutions\Data\2022\2-22-22 TS\ALCOHOL.gcm



FID1

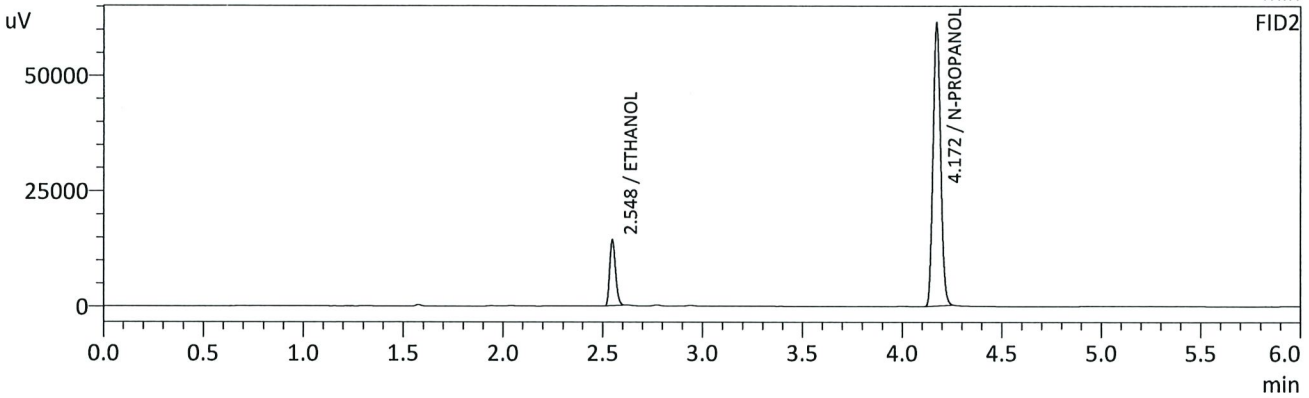
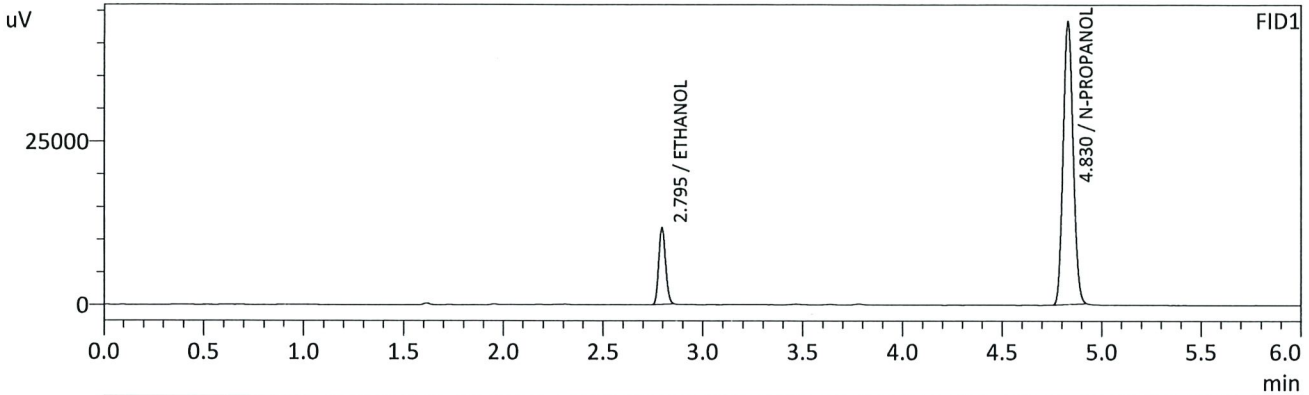
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0798	g/100cc	26617	11248
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	147205	41794
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0784	g/100cc	27632	13676
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	157191	59026
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

BS

Sample Name : QC1-2-B
 Vial # : 48
 Data Filename : QC1-2-B_2222022_048.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-22-22 TS_POST.gcb
 Date Acquired : 2/22/2022 9:34:22 PM
 Date Processed : 2/23/2022 7:47:07 AM
 C:\LabSolutions\Data\2022\2-22-22 TS\ALCOHOL.gcm



FID1

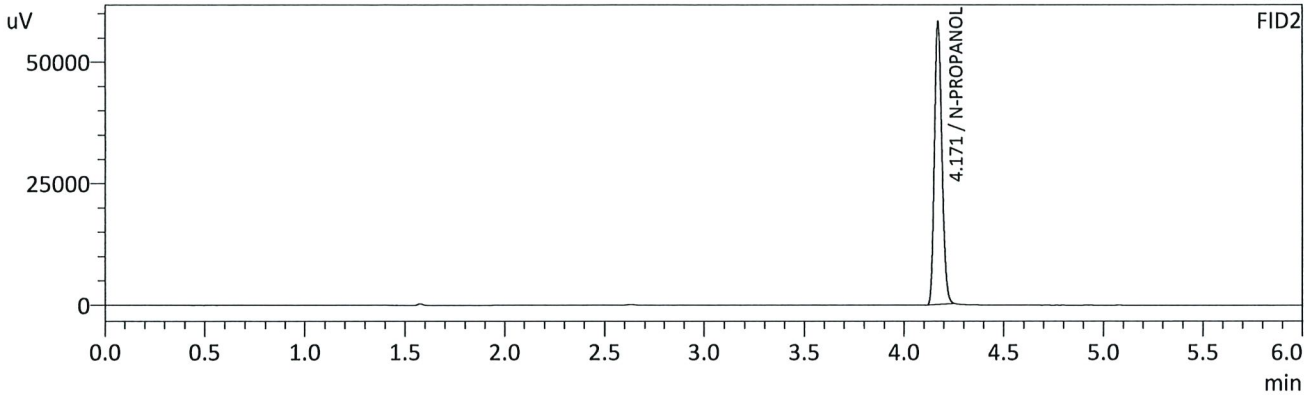
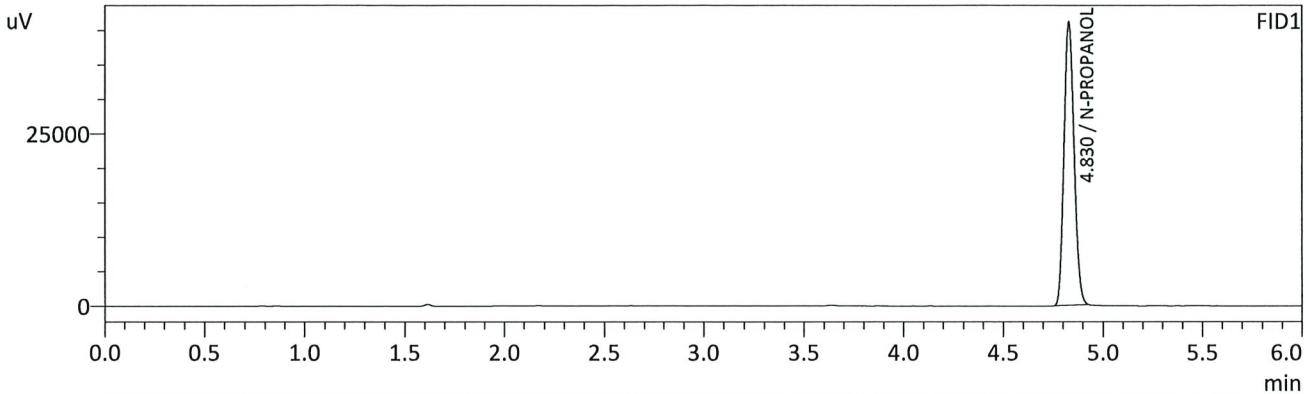
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0801	g/100cc	27530	11619
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	151696	43201
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0789	g/100cc	28685	14137
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	162164	61150
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

B

Sample Name : INT STD BLK 3
 Vial # : 49
 Data Filename : INT STD BLK 3_2222022_049.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-22-22 TS_POST.gcb
 Date Acquired : 2/22/2022 9:44:13 PM
 Date Processed : 2/23/2022 7:47:08 AM
 C:\LabSolutions\Data\2022\2-22-22 TS\ALCOHOL.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	144168	40974
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	153816	58150
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

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Region 5 Pocatello Blood Alcohol Analysis Batch Table

Shimadzu Nexis GC-2030 Serial Number: C12255850662

Shimadzu HS-20 Serial Number: C12595700014

LabSolutions Version 5.98

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Vial#	Sample Name	Sample Type	Method File	Data File	Level#
1	0.050	1:Standard:(I)	ALCOHOL.gcm	0.050_2222022_001.gcd	1
2	0.100	1:Standard:(R)	ALCOHOL.gcm	0.100_2222022_002.gcd	2
3	0.200	1:Standard:(R)	ALCOHOL.gcm	0.200_2222022_003.gcd	3
4	0.300	1:Standard:(R)	ALCOHOL.gcm	0.300_2222022_004.gcd	4
5	0.500	1:Standard:(R)	ALCOHOL.gcm	0.500_2222022_005.gcd	5
6	INT STD BLK 1	0:Unknown	ALCOHOL.gcm	INT STD BLK 1_2222022_006.gcd	0
7	MULTI-COMP MIX	0:Unknown	ALCOHOL.gcm	MULTI-COMP MIX_2222022_007.gcd	1
8	INT STD BLK 2	0:Unknown	ALCOHOL.gcm	INT STD BLK 2_2222022_008.gcd	0
9	QC-1-1-A	0:Unknown	ALCOHOL.gcm	QC-1-1-A_2222022_009.gcd	0
10	QC-1-1-B	0:Unknown	ALCOHOL.gcm	QC-1-1-B_2222022_010.gcd	0
11	0.08 QA - A	0:Unknown	ALCOHOL.gcm	0.08 QA - A_2222022_011.gcd	0
12	0.08 QA - B	0:Unknown	ALCOHOL.gcm	0.08 QA - B_2222022_012.gcd	0
13	P2022-0446-1-A	0:Unknown	ALCOHOL.gcm	P2022-0446-1-A_2222022_013.gcd	0
14	P2022-0446-1-B	0:Unknown	ALCOHOL.gcm	P2022-0446-1-B_2222022_014.gcd	0
15	P2022-0446-2-A	0:Unknown	ALCOHOL.gcm	P2022-0446-2-A_2222022_015.gcd	0
16	P2022-0446-2-B	0:Unknown	ALCOHOL.gcm	P2022-0446-2-B_2222022_016.gcd	0
17	P2022-0446-3-A	0:Unknown	ALCOHOL.gcm	P2022-0446-3-A_2222022_017.gcd	0
18	P2022-0446-3-B	0:Unknown	ALCOHOL.gcm	P2022-0446-3-B_2222022_018.gcd	0
19	P2022-0446-4-A	0:Unknown	ALCOHOL.gcm	P2022-0446-4-A_2222022_019.gcd	0
20	P2022-0446-4-B	0:Unknown	ALCOHOL.gcm	P2022-0446-4-B_2222022_020.gcd	0
21	P2022-0468-1-A	0:Unknown	ALCOHOL.gcm	P2022-0468-1-A_2222022_021.gcd	0
22	P2022-0468-1-B	0:Unknown	ALCOHOL.gcm	P2022-0468-1-B_2222022_022.gcd	0
23	P2022-0469-1-A	0:Unknown	ALCOHOL.gcm	P2022-0469-1-A_2222022_023.gcd	0
24	P2022-0469-1-B	0:Unknown	ALCOHOL.gcm	P2022-0469-1-B_2222022_024.gcd	0
25	P2022-0470-3-A	0:Unknown	ALCOHOL.gcm	P2022-0470-3-A_2222022_025.gcd	0
26	P2022-0470-3-B	0:Unknown	ALCOHOL.gcm	P2022-0470-3-B_2222022_026.gcd	0
27	P2022-0471-1-A	0:Unknown	ALCOHOL.gcm	P2022-0471-1-A_2222022_027.gcd	0
28	P2022-0471-1-B	0:Unknown	ALCOHOL.gcm	P2022-0471-1-B_2222022_028.gcd	0
29	P2022-0484-1-A	0:Unknown	ALCOHOL.gcm	P2022-0484-1-A_2222022_029.gcd	0
30	P2022-0484-1-B	0:Unknown	ALCOHOL.gcm	P2022-0484-1-B_2222022_030.gcd	0
31	QC-2-1-A	0:Unknown	ALCOHOL.gcm	QC-2-1-A_2222022_031.gcd	0
32	QC-2-1-B	0:Unknown	ALCOHOL.gcm	QC-2-1-B_2222022_032.gcd	0
33	P2022-0490-1-A	0:Unknown	ALCOHOL.gcm	P2022-0490-1-A_2222022_033.gcd	0
34	P2022-0490-1-B	0:Unknown	ALCOHOL.gcm	P2022-0490-1-B_2222022_034.gcd	0
35	P2022-0491-1-A	0:Unknown	ALCOHOL.gcm	P2022-0491-1-A_2222022_035.gcd	0
36	P2022-0491-1-B	0:Unknown	ALCOHOL.gcm	P2022-0491-1-B_2222022_036.gcd	0
37	P2022-0492-1-A	0:Unknown	ALCOHOL.gcm	P2022-0492-1-A_2222022_037.gcd	0
38	P2022-0492-1-B	0:Unknown	ALCOHOL.gcm	P2022-0492-1-B_2222022_038.gcd	0
39	P2022-0503-1-A	0:Unknown	ALCOHOL.gcm	P2022-0503-1-A_2222022_039.gcd	0
40	P2022-0503-1-B	0:Unknown	ALCOHOL.gcm	P2022-0503-1-B_2222022_040.gcd	0
41	P2022-0520-1-A	0:Unknown	ALCOHOL.gcm	P2022-0520-1-A_2222022_041.gcd	0
42	P2022-0520-1-B	0:Unknown	ALCOHOL.gcm	P2022-0520-1-B_2222022_042.gcd	0
43	P2022-0526-1-A	0:Unknown	ALCOHOL.gcm	P2022-0526-1-A_2222022_043.gcd	0
44	P2022-0526-1-B	0:Unknown	ALCOHOL.gcm	P2022-0526-1-B_2222022_044.gcd	0
45	P2022-0527-1-A	0:Unknown	ALCOHOL.gcm	P2022-0527-1-A_2222022_045.gcd	0
46	P2022-0527-1-B	0:Unknown	ALCOHOL.gcm	P2022-0527-1-B_2222022_046.gcd	0
47	QC1-2-A	0:Unknown	ALCOHOL.gcm	QC1-2-A_2222022_047.gcd	0
48	QC1-2-B	0:Unknown	ALCOHOL.gcm	QC1-2-B_2222022_048.gcd	0
49	INT STD BLK 3	0:Unknown	ALCOHOL.gcm	INT STD BLK 3_2222022_049.gcd	0