

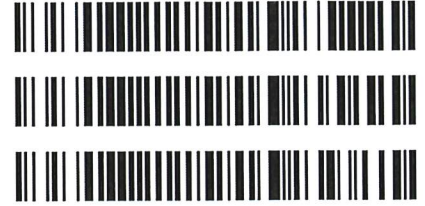
REVIEWED

By Tamara Salazar at 10:13 am, Dec 12, 2022

12/12/2022

Worklist: 6182

<u>LAB_CASE</u>	<u>ITEM</u>	<u>ITEM_TYPE</u>	<u>DESCRIPTION</u>
P2022-3741	1	BCK	Alcohol Analysis
P2022-3742	1	BCK	Alcohol Analysis
P2022-3743	1	BCK	Alcohol Analysis



P2022-3606-1 ran with this batch

RC 12/12/22

RC

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): 12/9/22

Calibration Date: (if different) 12/8/22

Worklist #: 6182

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-23	1907006	0.0764	0.0688-0.0840	0.0723 g/100cc
					g/100cc
					0.2085 g/100cc
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	g/100cc g/100cc
Multi-Component mixture:		Exp:	2024 October	Lot # FN06041902	OK
Curve Fit:		Column 1	0.99999	Column2	0.99994

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0504	0.0513	0.0009	0.0508
100	0.100	0.090 - 0.110	0.1001	0.1000	1E-04	0.1
200	0.200	0.180 - 0.220	0.1992	0.1985	0.0007	0.1988
300	0.300	0.270 - 0.330	0.2995	0.2988	0.0007	0.2991
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5004	0.5010	0.0006	0.5007

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 #: 6182 **Run Date(s):** 12/9/22

Internal Standard Solution: **Prep Date:** 11/10/2022 **Exp Date:** 5/10/2023

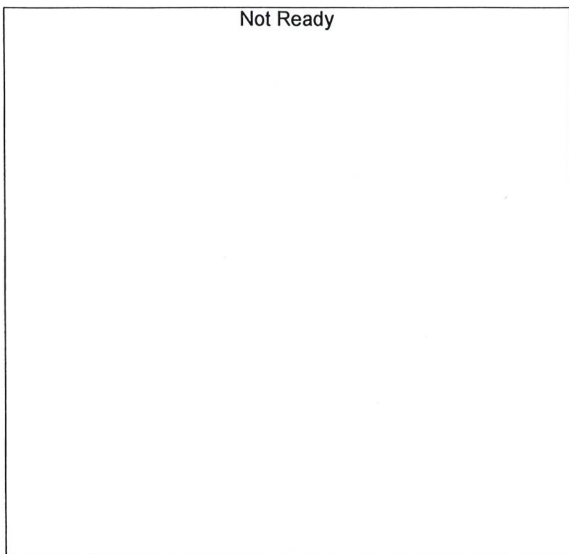
Sample Name	Column 1 Value	Column 2 Value
0.080	159069	167895
0.080	158063	166728
QC1	159868	168651
QC1	160492	169409
QC1		
QC1		
QC1		
QC1		
QC2	160410	168688
QC2	161789	169978
QC2		
QC2		
QC2		
QC2		

	Average	(-)20%	(+)20%
Column 1	159948.5	127958.8	191938.2
Column 2	168558.2	134846.5	202269.8

=====
Calibration Table
=====

Laboratory: Pocatello
Instrument Name : GC2030-HS20

<<Method File>>
Method File :C:\LabSolutions\Data\2022\12-08-22 RC\12-9-22\ALCOHOL.gcm
Date Created :2/3/2022 1:34:42 PM
Date Modified :12/9/2022 8:06:26 AM



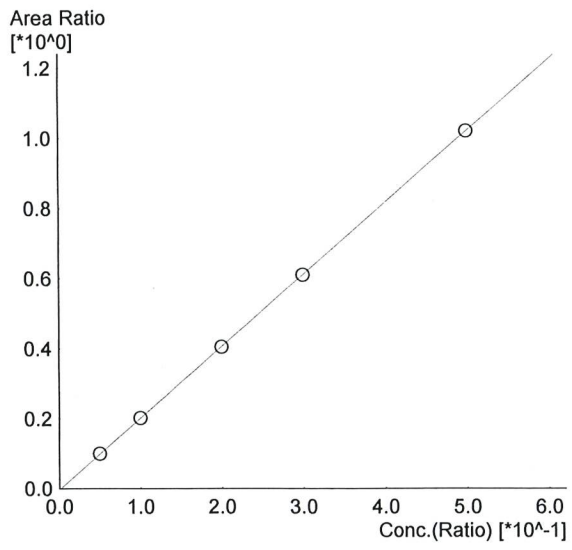
Name : METHANOL
Detector Name: FID1
Function : $f(x)=0*x+0$
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

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



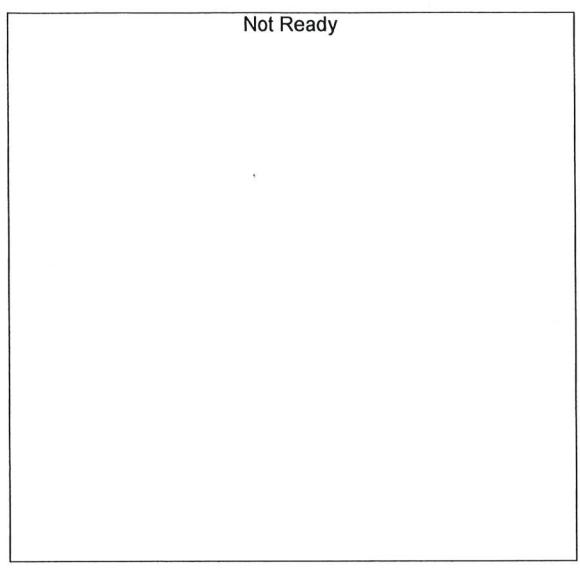
Name : ACETALDEHYDE
Detector Name: FID1
Function : $f(x)=0*x+0$
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

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



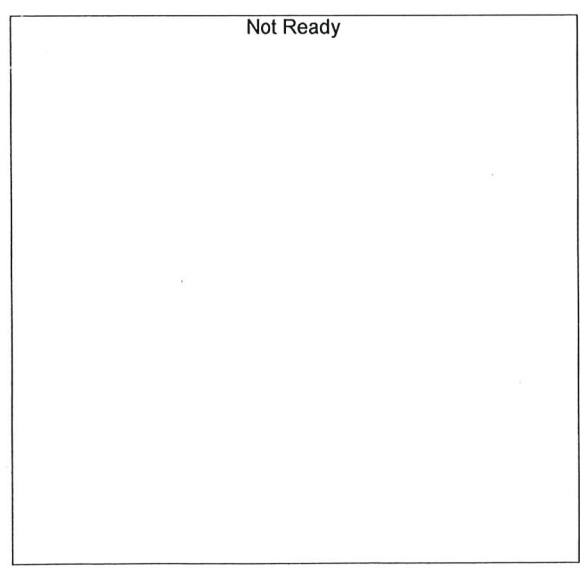
Name : ETHANOL
 Detector Name: FID1
 Function : $f(x)=2.04735*x-0.00332471$
 R^2 value= 0.9999908
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
1	0.050	15953	0.0504	0.050_1282022_001.gcd
2	0.100	32440	0.1001	0.100_1282022_002.gcd
3	0.200	65363	0.1992	0.200_1282022_003.gcd
4	0.300	98609	0.2995	0.300_1282022_004.gcd
5	0.500	165680	0.5004	0.500_1282022_005.gcd



Name : ISOPROPYL ALCOHOL
 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
---	-------	------	------------	----------------



Name : ACETONE
 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
---	-------	------	------------	----------------

Not Ready

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
---	-------	------	------------	----------------

Not Ready

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

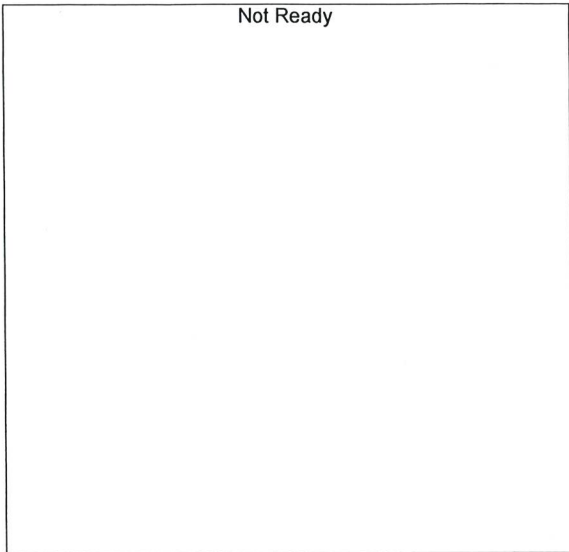
#	Conc.	Area	Std. Conc.	Data File Name
---	-------	------	------------	----------------

Not Ready

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

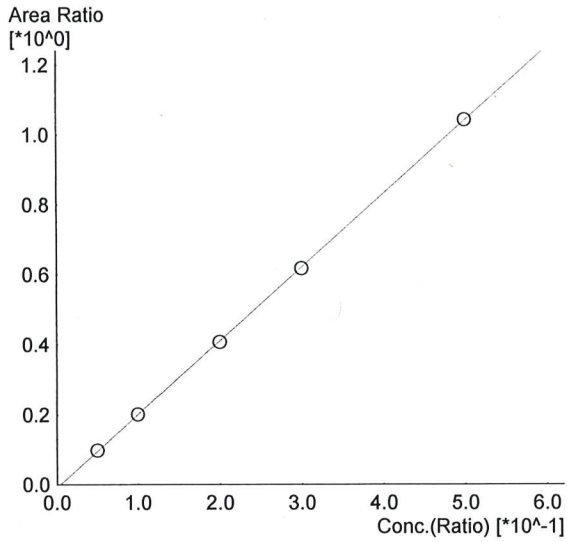
#	Conc.	Area	Std. Conc.	Data File Name
---	-------	------	------------	----------------





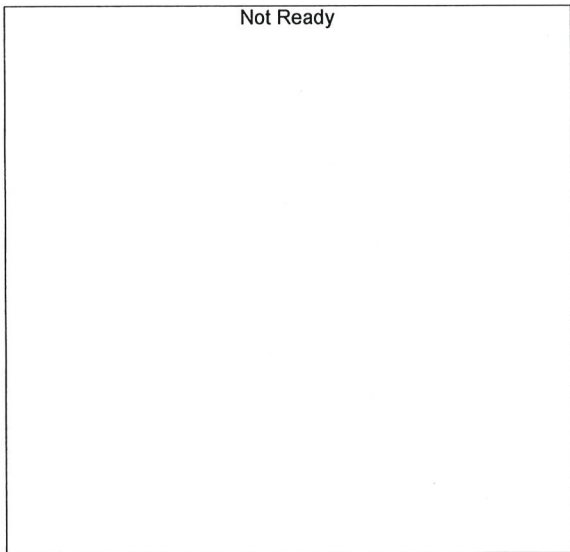
Name : METHANOL
 Detector Name: FID2
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Not Through

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



Name : ETHANOL
 Detector Name: FID2
 Function : $f(x)=2.10042*x-0.00965941$
 R² value= 0.9999492
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
1	0.050	16359	0.0513	0.050_1282022_001.gcd
2	0.100	33794	0.1000	0.100_1282022_002.gcd
3	0.200	68887	0.1985	0.200_1282022_003.gcd
4	0.300	104539	0.2988	0.300_1282022_004.gcd
5	0.500	176772	0.5010	0.500_1282022_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
---	-------	------	------------	----------------

RC

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
---	-------	------	------------	----------------

Not Ready

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

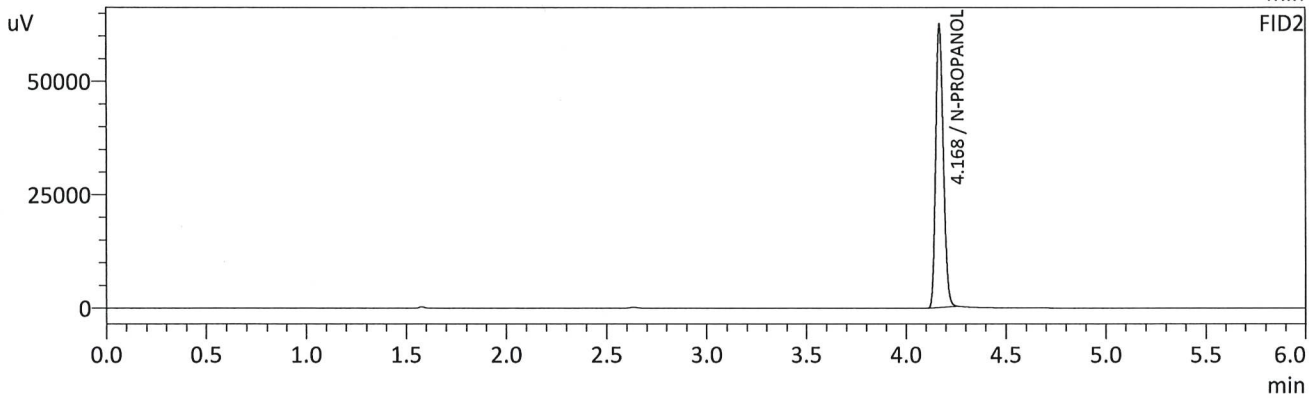
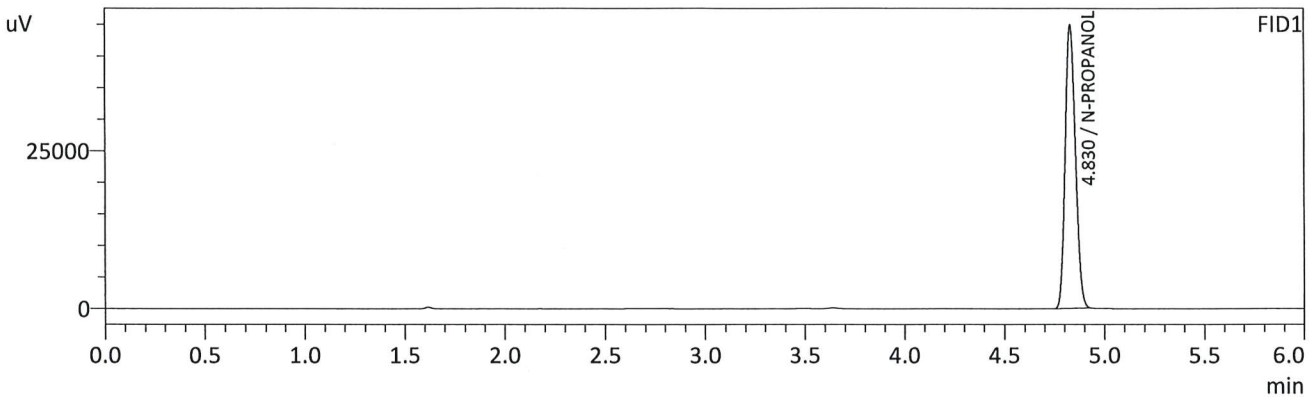
#	Conc.	Area	Std. Conc.	Data File Name
---	-------	------	------------	----------------

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
---	-------	------	------------	----------------

Sample Name : INT STD BLK 1
 Vial # : 1
 Data Filename : INT STD BLK 1_1292022_001.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 12-9-22 BATCH.gcb
 Date Acquired : 12/9/2022 3:35:06 PM
 Date Processed : 12/12/2022 7:51:50 AM
 C:\LabSolutions\Data\2022\12-08-22 RC\12-9-22\ALCOHOL.gcm



FID1

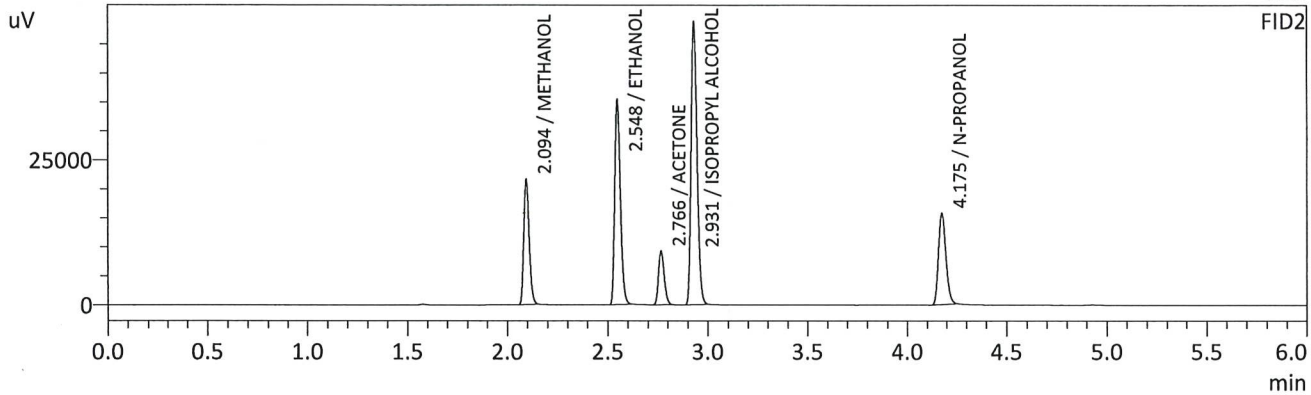
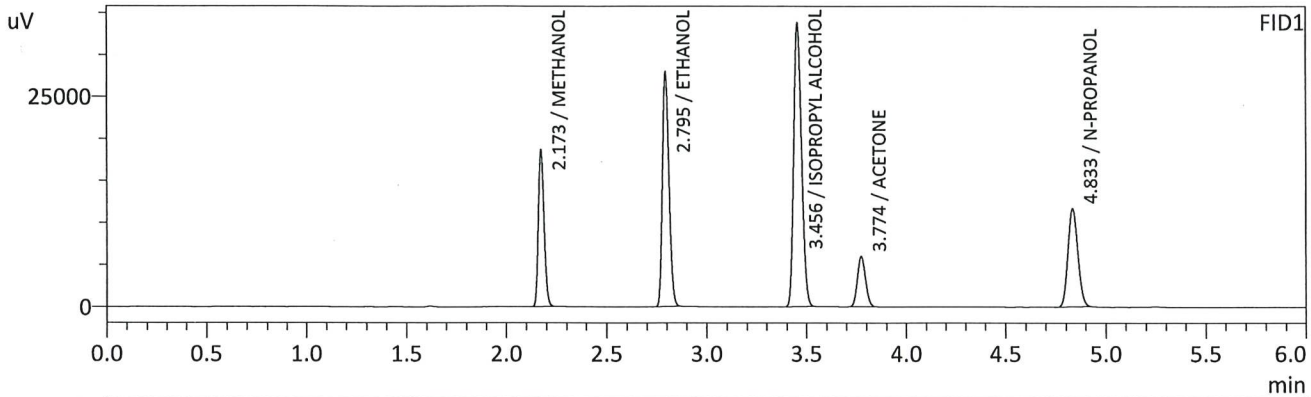
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	157414	44674
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

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	166050	62138
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : MULTI-COMP MIX
 Vial # : 2
 Data Filename : MULTI-COMP MIX_1292022_002.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 12-9-22 BATCH.gcb
 Date Acquired : 12/9/2022 3:44:35 PM
 Date Processed : 12/12/2022 7:51:52 AM
 C:\LabSolutions\Data\2022\12-08-22 RC\12-9-22\ALCOHOL.gcm



FID1

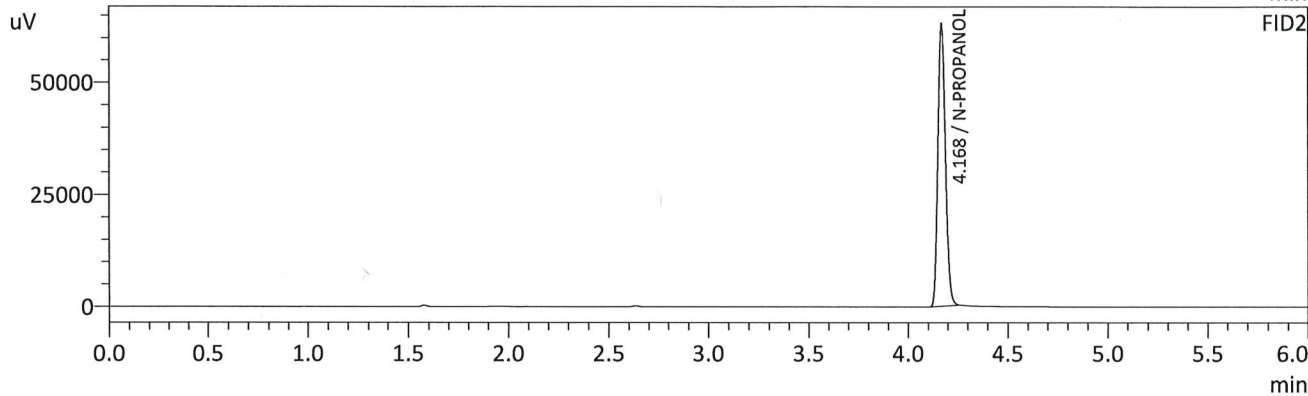
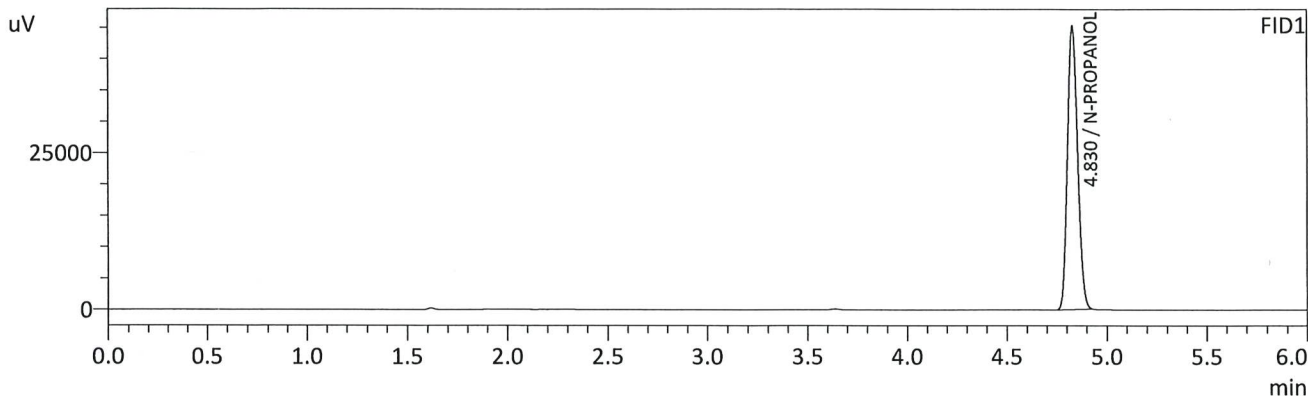
Name	Conc.	Unit	Area	Height
METHANOL	0.0000	g/100cc	37135	18589
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.7723	g/100cc	63765	27807
ISOPROPYL ALCOHOL	0.0000	g/100cc	93228	33762
ACETONE	0.0000	g/100cc	16861	5956
N-PROPANOL	0.0000	g/100cc	40412	11657
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	0.0000	g/100cc	39627	21484
ETHANOL	0.7924	g/100cc	68798	34920
ACETONE	0.0000	g/100cc	18291	9202
ISOPROPYL ALCOHOL	0.0000	g/100cc	100589	48028
N-PROPANOL	0.0000	g/100cc	41574	15767
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

CHC

Sample Name : INT STD BLK 2
 Vial # : 3
 Data Filename : INT STD BLK 2_1292022_003.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 12-9-22 BATCH.gcb
 Date Acquired : 12/9/2022 3:53:56 PM
 Date Processed : 12/12/2022 7:51:53 AM
 C:\LabSolutions\Data\2022\12-08-22 RC\12-9-22\ALCOHOL.gcm



FID1

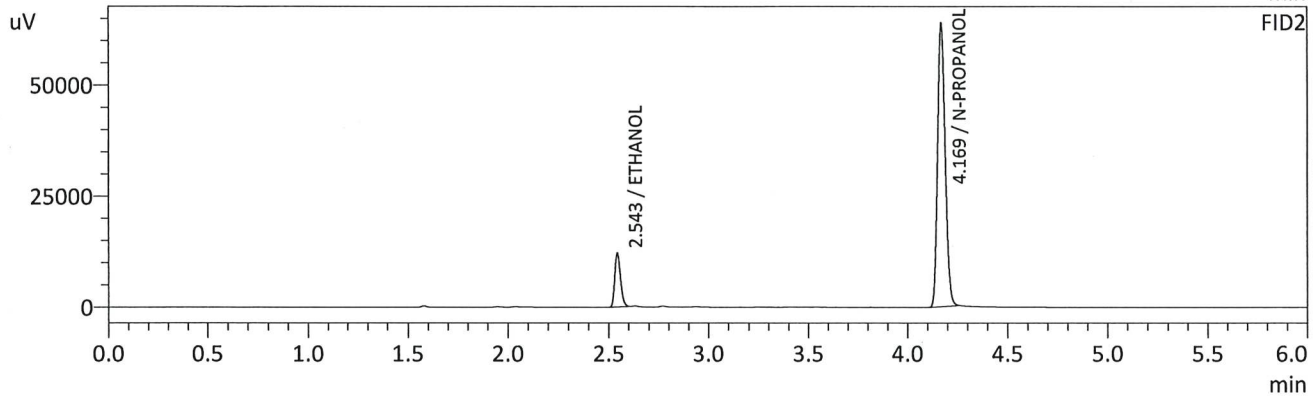
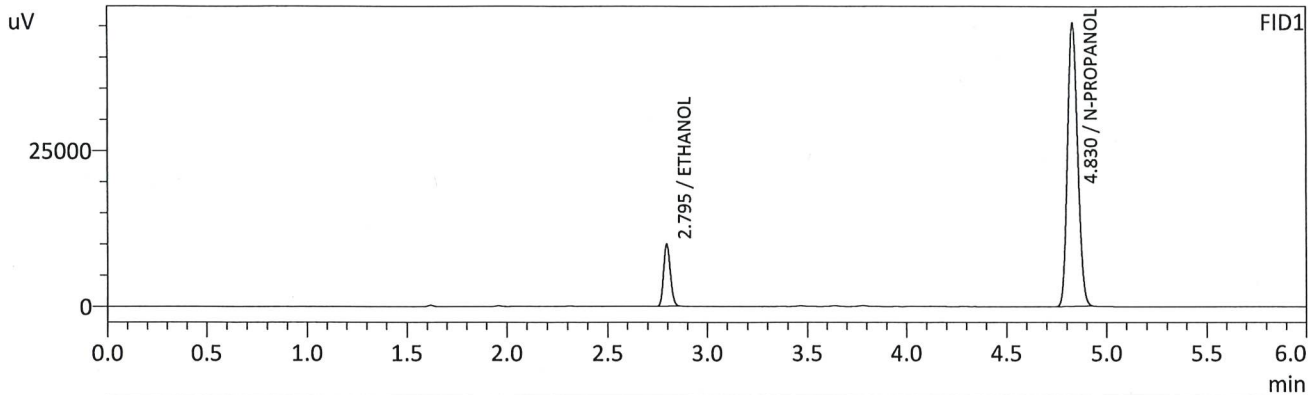
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	158490	45121
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

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	167144	62632
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

chc

Sample Name : QC1-1-A
 Vial # : 4
 Data Filename : QC1-1-A_1292022_004.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 12-9-22 BATCH.gcb
 Date Acquired : 12/9/2022 4:03:41 PM
 Date Processed : 12/12/2022 7:51:54 AM
 C:\LabSolutions\Data\2022\12-08-22 RC\12-9-22\ALCOHOL.gcm



FID1

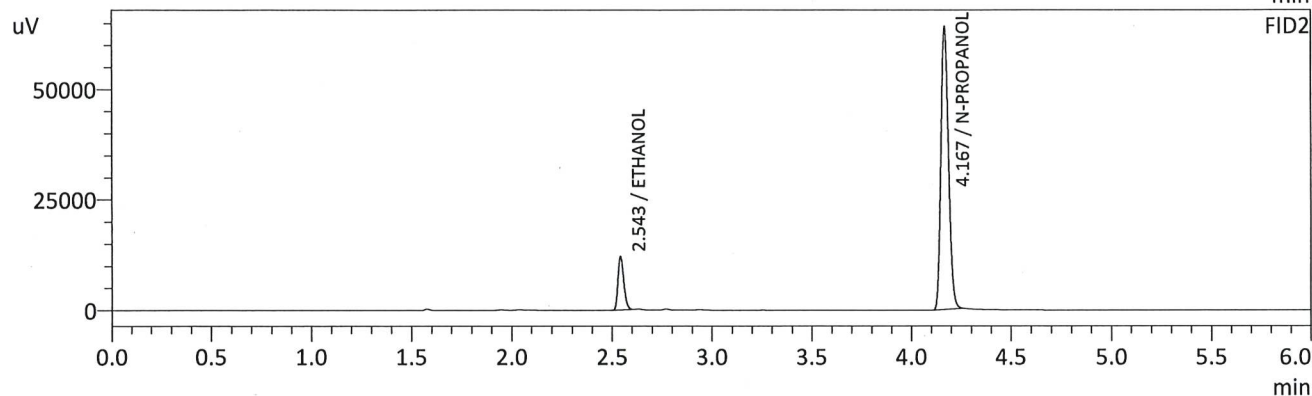
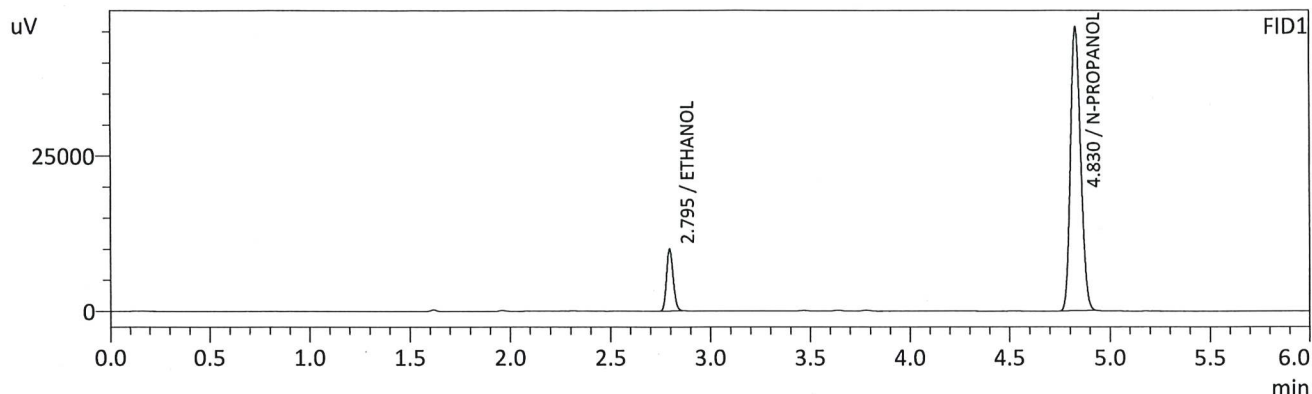
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0722	g/100cc	23125	9844
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	159868	45293
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0726	g/100cc	24090	11972
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	168651	63556
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : QC1-1-B
 Vial # : 5
 Data Filename : QC1-1-B_1292022_005.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 12-9-22 BATCH.gcb
 Date Acquired : 12/9/2022 4:13:13 PM
 Date Processed : 12/12/2022 7:51:55 AM
 C:\LabSolutions\Data\2022\12-08-22 RC\12-9-22\ALCOHOL.gcm



FID1

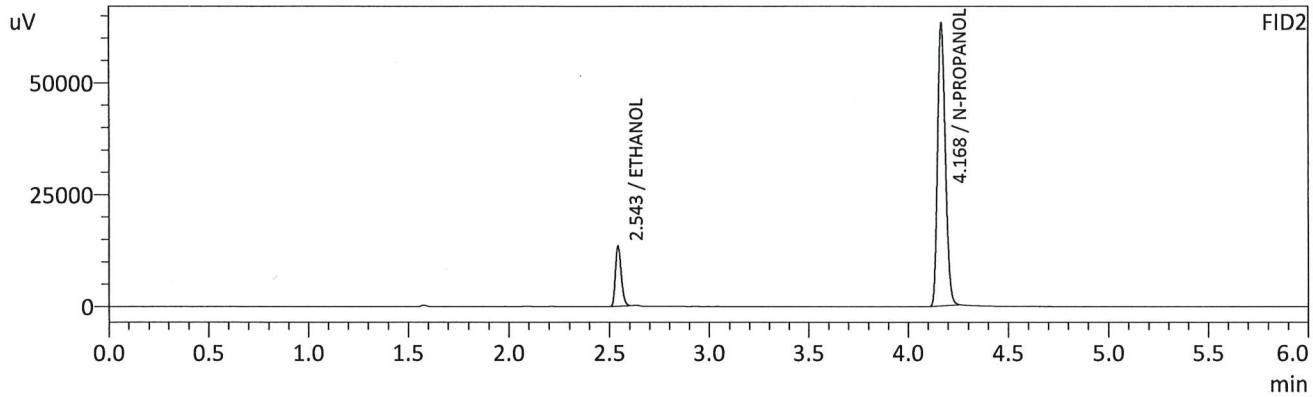
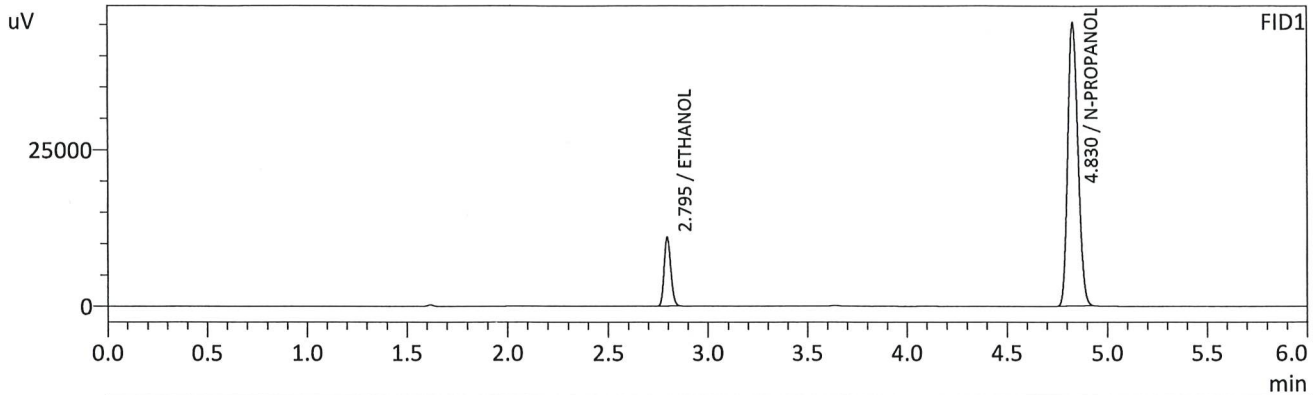
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0724	g/100cc	23274	9894
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	160492	45603
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0723	g/100cc	24102	11977
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	169409	63550
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : 0.08 QA - A
 Vial # : 6
 Data Filename : 0.08 QA - A_1292022_006.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 12-9-22 BATCH.gcb
 Date Acquired : 12/9/2022 4:22:30 PM
 Date Processed : 12/12/2022 7:51:56 AM
 C:\LabSolutions\Data\2022\12-08-22 RC\12-9-22\ALCOHOL.gcm



FID1

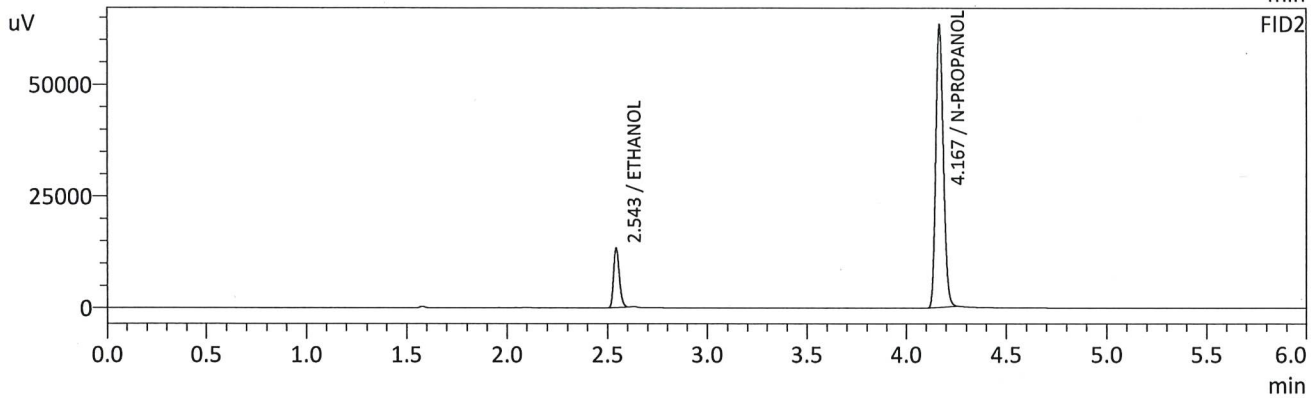
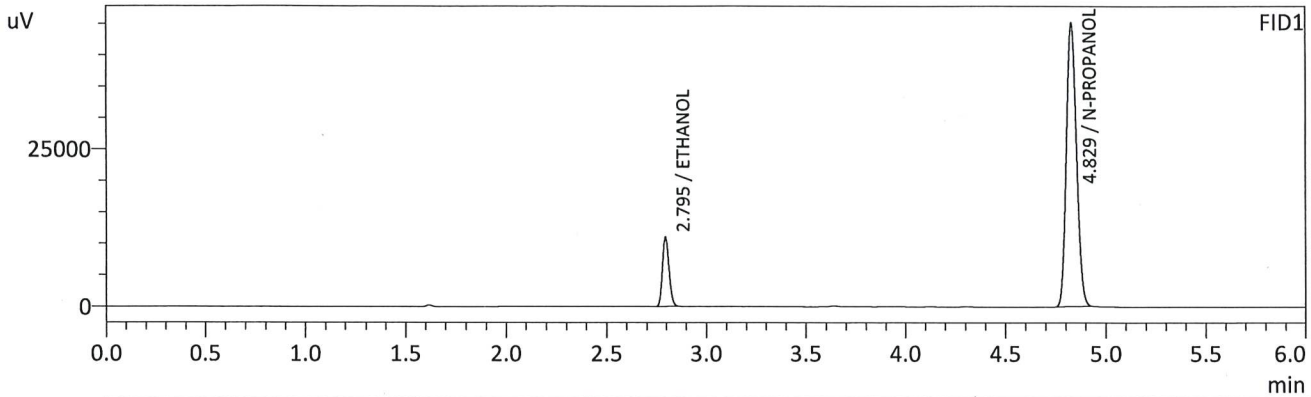
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0808	g/100cc	25787	10983
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	159069	45141
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0806	g/100cc	26805	13381
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	167895	62640
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : 0.08 QA - B
 Vial # : 7
 Data Filename : 0.08 QA - B_1292022_007.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 12-9-22 BATCH.gcb
 Date Acquired : 12/9/2022 4:32:14 PM
 Date Processed : 12/12/2022 7:51:57 AM
 C:\LabSolutions\Data\2022\12-08-22 RC\12-9-22\ALCOHOL.gcm



FID1

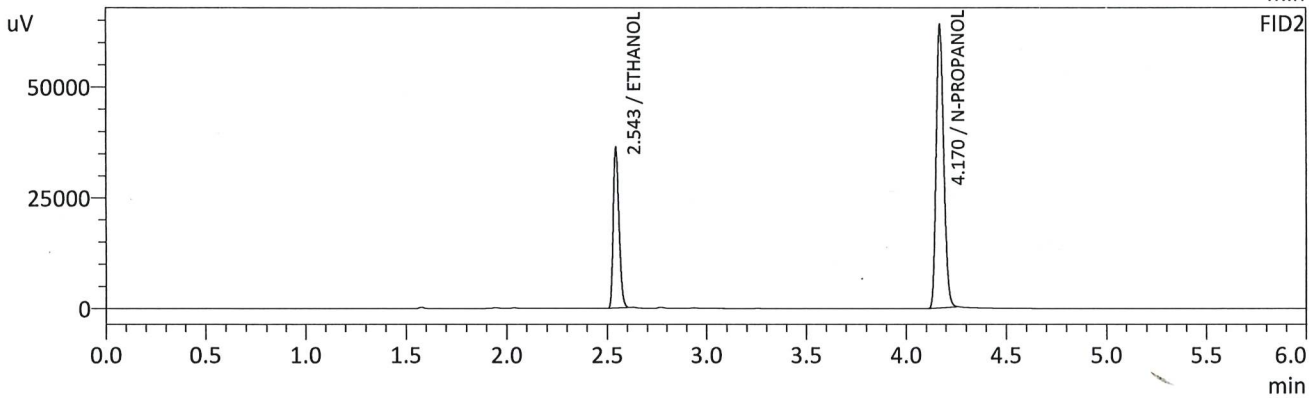
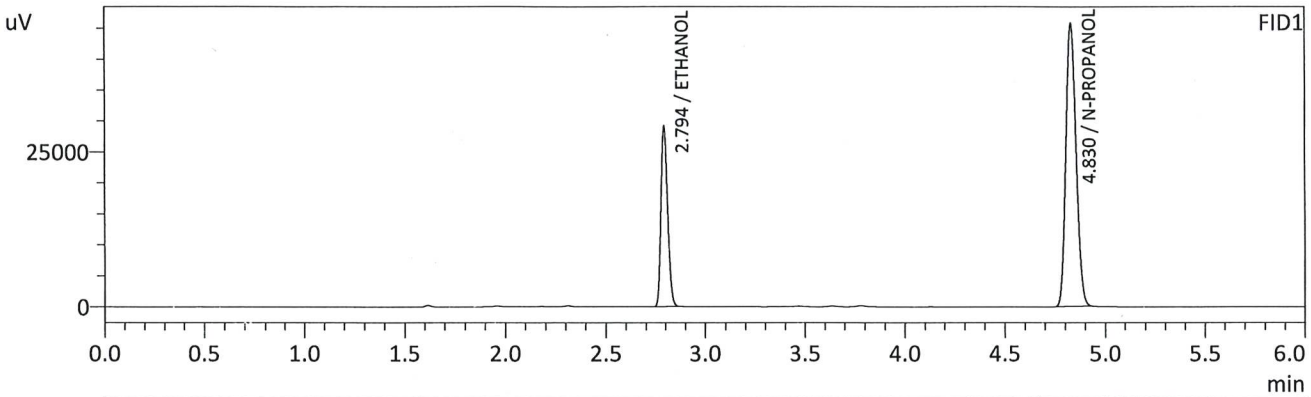
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0810	g/100cc	25689	10928
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	158063	45047
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0807	g/100cc	26669	13323
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	166728	62997
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : QC2-1-A
 Vial # : 16
 Data Filename : QC2-1-A_1292022_016.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 12-9-22 BATCH.gcb
 Date Acquired : 12/9/2022 5:57:56 PM
 Date Processed : 12/12/2022 7:52:08 AM
 C:\LabSolutions\Data\2022\12-08-22 RC\12-9-22\ALCOHOL.gcm



FID1

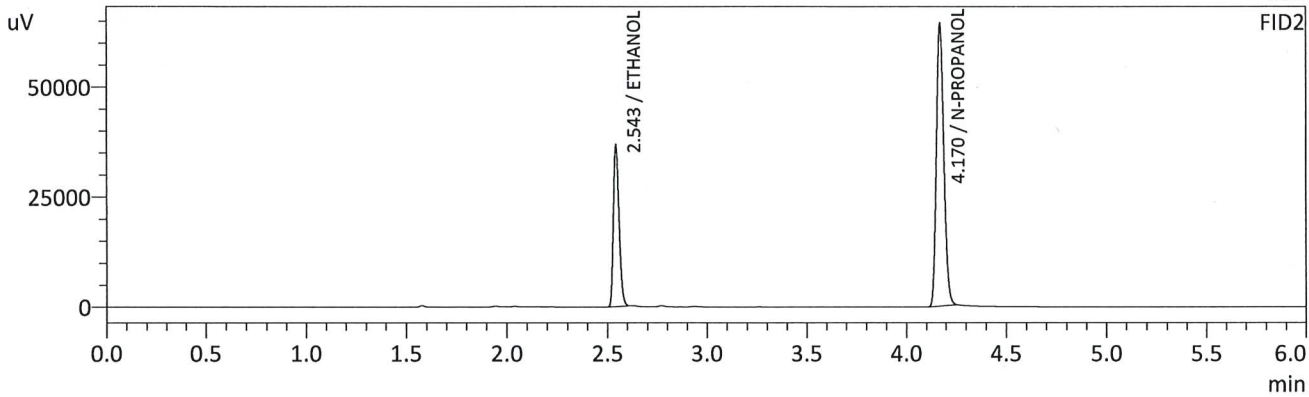
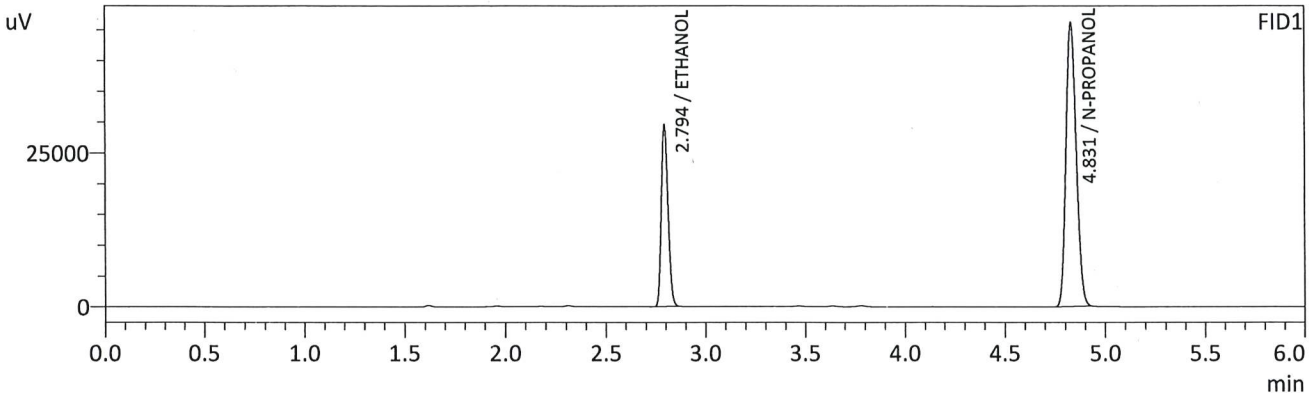
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2084	g/100cc	67930	29051
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	160410	45530
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2081	g/100cc	72130	35935
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	168688	63828
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

Sample Name : QC2-1-B
 Vial # : 17
 Data Filename : QC2-1-B_1292022_017.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 12-9-22 BATCH.gcb
 Date Acquired : 12/9/2022 6:07:25 PM
 Date Processed : 12/12/2022 7:52:09 AM
 C:\LabSolutions\Data\2022\12-08-22 RC\12-9-22\ALCOHOL.gcm



FID1

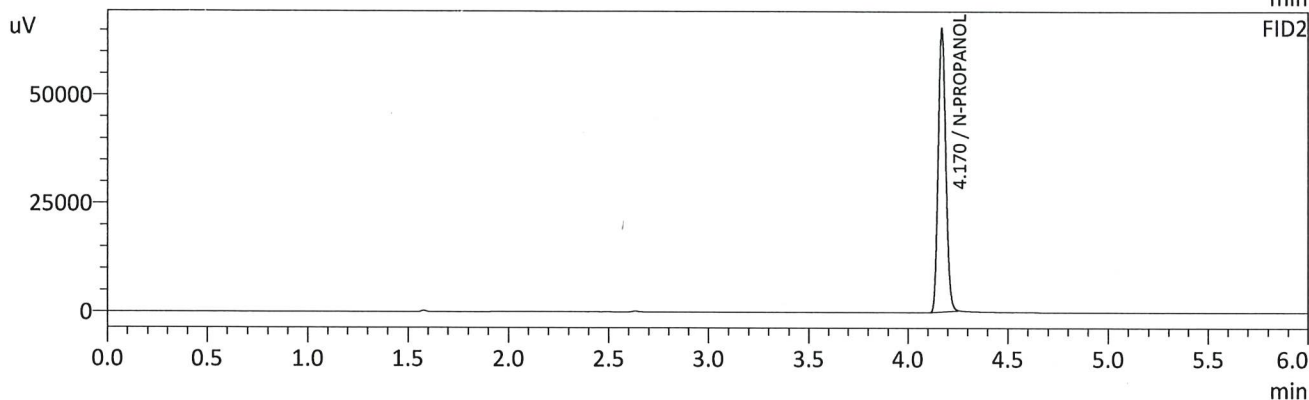
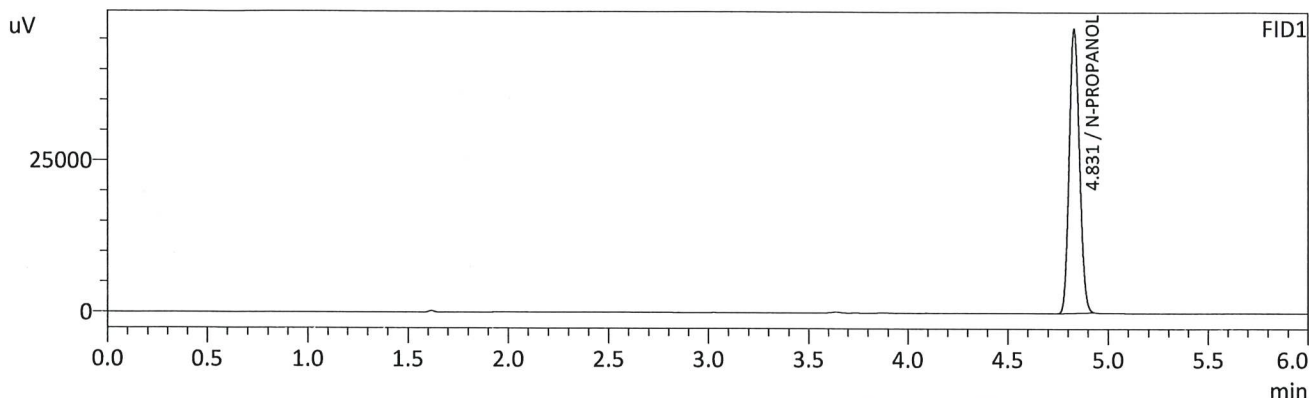
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2090	g/100cc	68722	29379
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	161789	45974
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2087	g/100cc	72902	36242
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	169978	64295
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

JK

Sample Name : INT STD BLK 3
 Vial # : 18
 Data Filename : INT STD BLK 3_1292022_018.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 12-9-22 BATCH.gcb
 Date Acquired : 12/9/2022 6:16:42 PM
 Date Processed : 12/12/2022 7:52:11 AM
 C:\LabSolutions\Data\2022\12-08-22 RC\12-9-22\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	163985	46644
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	172832	65364
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

RC

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

Copyright (C) 2008-2019 Shimadzu Corporation. All rights reserved.

Vial#	Sample Name	Sample Type	Method File	Data File	Level#
1	INT STD BLK 1	0:Unknown	ALCOHOL.gcm		0
2	MULTI-COMP MIX	0:Unknown	ALCOHOL.gcm	MULTI-COMP MIX_1292021_001.gcd	1
3	INT STD BLK 2	0:Unknown	ALCOHOL.gcm		0
4	QC1-1-A	0:Unknown	ALCOHOL.gcm		0
5	QC1-1-B	0:Unknown	ALCOHOL.gcm		0
6	0.08 QA - A	0:Unknown	ALCOHOL.gcm		0
7	0.08 QA - B	0:Unknown	ALCOHOL.gcm		0
8	P2022-3606-1-A	0:Unknown	ALCOHOL.gcm		0
9	P2022-3606-1-B	0:Unknown	ALCOHOL.gcm		0
10	P2022-3741-1-A	0:Unknown	ALCOHOL.gcm		0
11	P2022-3741-1-B	0:Unknown	ALCOHOL.gcm		0
12	P2022-3742-1-A	0:Unknown	ALCOHOL.gcm		0
13	P2022-3742-1-B	0:Unknown	ALCOHOL.gcm		0
14	P2022-3743-1-A	0:Unknown	ALCOHOL.gcm		0
15	P2022-3743-1-B	0:Unknown	ALCOHOL.gcm		0
16	QC2-1-A	0:Unknown	ALCOHOL.gcm		0
17	QC2-1-B	0:Unknown	ALCOHOL.gcm		0
18	INT STD BLK 3	0:Unknown	ALCOHOL.gcm		0

RC