Worklist: 5118

LAB CASE	ITEM	ITEM TYPE	DESCRIPTION		
P2021-1726	1	UCK	Alcohol Analysis		
P2021-2048	1	BCK	Alcohol Analysis		
P2021-2049	1	BCK	Alcohol Analysis		
P2021-2050	1	BCK	Alcohol Analysis		
P2021-2067	1	BCK	Alcohol Analysis		
P2021-2072	1	BCK	Alcohol Analysis		
P2021-2074	1	BCK	Alcohol Analysis		
P2021-2096	1	BCK	Alcohol Analysis		
P2021-2099	1	BCK	Alcohol Analysis	*Samples after this point*	
P2021-2114	1	BCK	Alcohol Analysis	*— Ran at a later date.*	
P2021-2129	1	BCK	Alcohol Analysis	*7/27/21 TS*	
P2021-2182	3	BCK	Alcohol Analysis		
P2021-2187	1	BCK	Alcohol Analysis		
P2021-2190	1	BCK	Alcohol Analysis		
P2021-2202	1	BCK	Alcohol Analysis		
P2021-2205	1	BCK	Alcohol Analysis		
P2021-2206	1	BCK	Alcohol Analysis		
P2021-2207	1	BCK	Alcohol Analysis		
P2021-2209	1	BCK	Alcohol Analysis		
P2021-2210	1	BCK	Alcohol Analysis		
P2021-2282	1	BCK	Alcohol Analysis		

Worklist: 5118

LAB CASE	ITEM	ITEM TYPE	DESCRIPTION
P2021-2283	1	BCK	Alcohol Analysis
P2021-2358	1	BCK	Alcohol Analysis
P2021-2366	2	BCK	Alcohol Analysis
P2021-2368	1	BCK	Alcohol Analysis

BLALC Volatiles QA_QC Data Spreadsheet-v5.xls

Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

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

Run Date(s): 07/22/2021

Volatiles Quality Assurance Controls

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results	
Level 1	Jul-23	1907006	0.0764	0.0688-0.0840	0.0727	g/100cc
					0.0859	g/100cc
						g/100cc
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.2146	g/100cc
					0.2149	g/100cc
						g/100cc

Multi-Component mixture:

	Lot #	FN06041902	
Curve Fit:	Column 1	0.99984	Column2	0.99976	ok

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0522	0.0527	0.000	0.0524
100	0.100	0.090 - 0.110	0.1003	0.1003	0.0000	0.1003
200	0.200	0.180 - 0.220	0.1979	0.1974	0.0005	0.1976
300	0.300	0.270 - 0.330	0.2974	0.2970	0.0004	0.2972
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5020	0.5024	0.0004	0.5022

Aqueous Controls

Control level	Target Value	Acceptable Range	Overall Results	
80	0.080	0.076 - 0.084	0.082	g/100cc

* QC 1-2 outside acceptable range. Samples associated with vial #s 33-69 will be reanalyzed at a later date. 7-27-21 TS

==
Calibration Table
==

Laboratory: Pocatello
Instrument Name   : GC2030-HS20

<<Data File>>
Method File   :C:\LabSolutions\Data\2021\07-22-21_TS\ALCOHOL.gcm ✓
Batch File   :C:\LabSolutions\Data\2021\07-22-21_TS\07-22-21_ts.gcb
Date Acquired   :7/22/2021 1:40:24 PM
Date Created   :7/22/2021 1:37:45 PM
Date Modified   :7/23/2021 8:25:15 AM
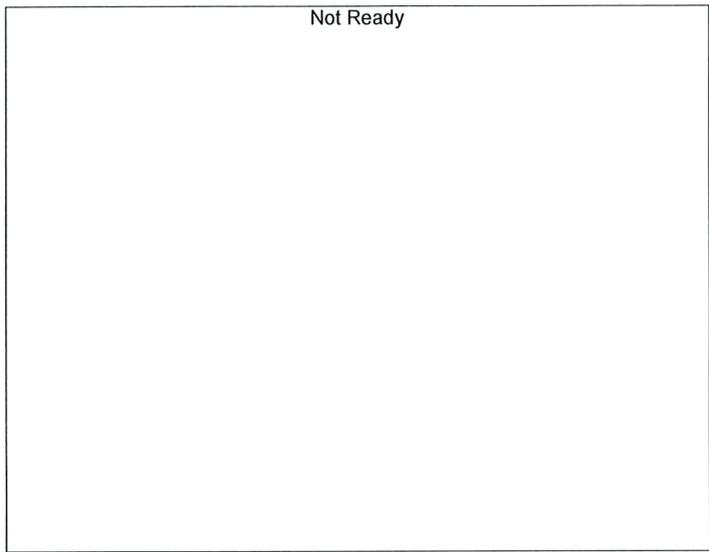
Not Ready

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

#	Conc.	Area	Std. Conc.

Not Ready

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

#	Conc.	Area	Std. Conc.

Area Ratio
[*10^0]
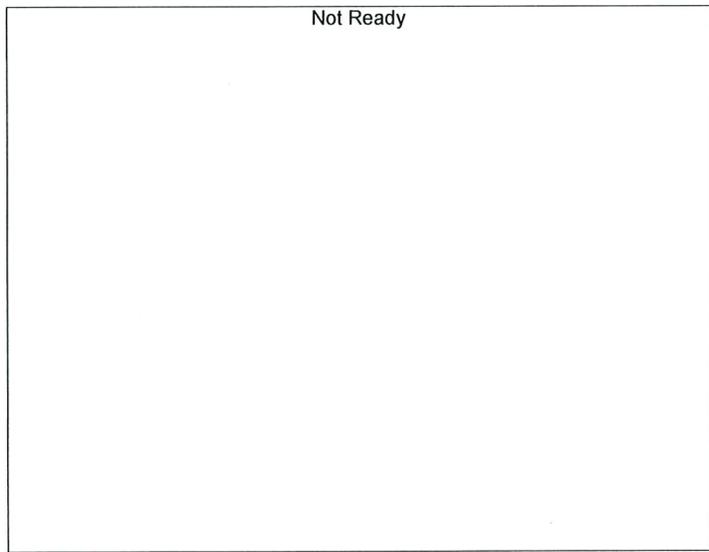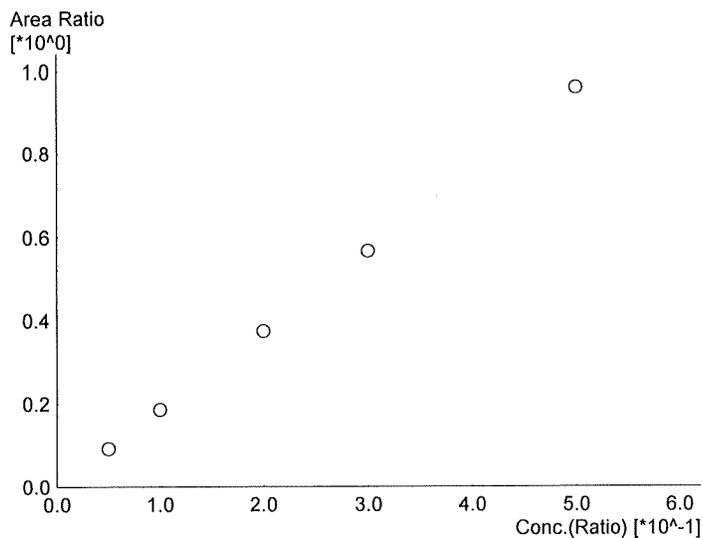
Name : ETHANOL
Detector Name: FID1
Function : $f(x)=1.93727 \cdot x - 0.00920138$
R^2 value= 0.9998409
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	15399	0.0522
2	0.100	31364	0.1003
3	0.200	62552	0.1979
4	0.300	95084	0.2974
5	0.500	165660	0.5020

Not Ready

Name : ISOPROPYL ALCOHOL
Detector Name: FID1
Function : $f(x)=0 \cdot x + 0$
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.

Not Ready

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

#	Conc.	Area	Std. Conc.

Not Ready

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

#	Conc.	Area	Std. Conc.

Not Ready

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

#	Conc.	Area	Std. Conc.

Not Ready

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

#	Conc.	Area	Std. Conc.

Not Ready

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

#	Conc.	Area	Std. Conc.

Area Ratio
[*10^0]

Name : ETHANOL
Detector Name: FID2
Function : f(x)=1.93803*x-0.0141545
R^2 value= 0.9997692
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	15563	0.0527
2	0.100	32092	0.1003
3	0.200	64664	0.1974
4	0.300	98736	0.2970
5	0.500	172956	0.5024

Not Ready

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

#	Conc.	Area	Std. Conc.

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.

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.

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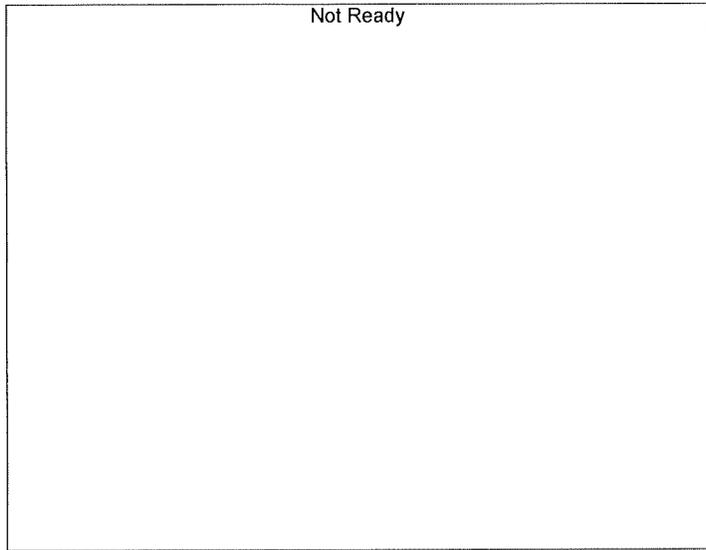
Name : TFE
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.

Sample Name   : 0.050
Vial #   : 1
Data Filename   : 0.050_7222021_001.gcd
Method Filename   : ALCOHOL.gcm
Batch Filename   : 07-22-21_ts.gcb
Date Acquired   : 7/22/2021 1:05:19 PM
Date Processed   : 7/23/2021 8:25:10 AM
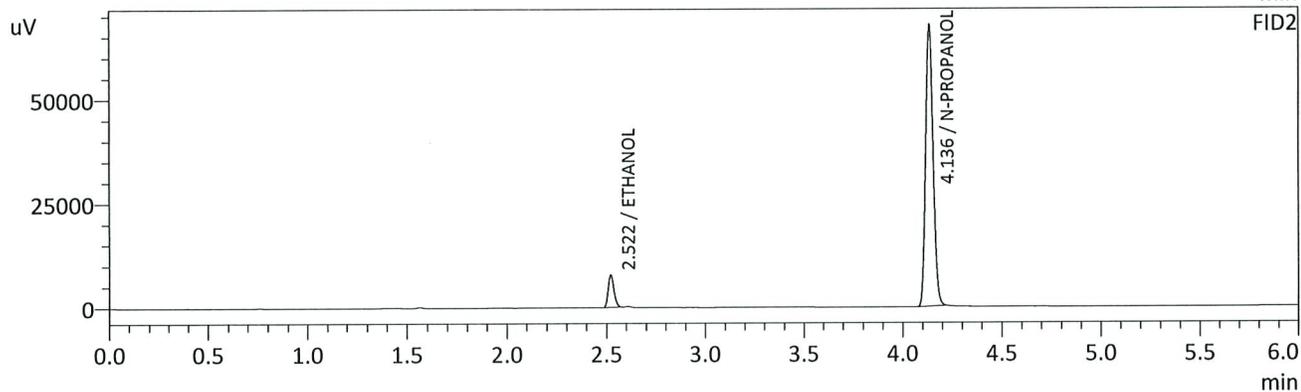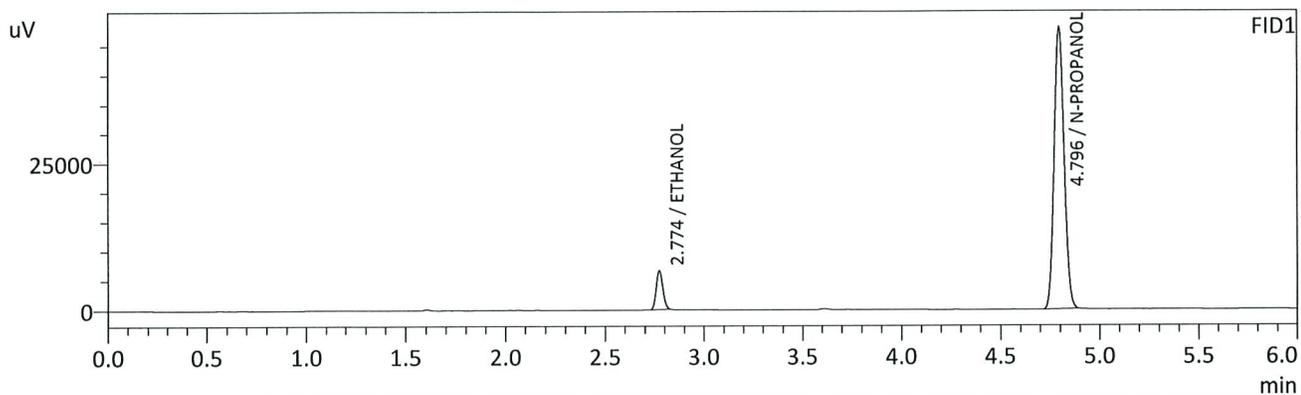
FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0522	g/100cc	15399	6601
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	167490	47960
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0527	g/100cc	15563	7764
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	176590	67258
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name   : 0.100
Vial #   : 2
Data Filename   : 0.100_7222021_002.gcd
Method Filename   : ALCOHOL.gcm
Batch Filename   : 07-22-21_ts.gcb
Date Acquired   : 7/22/2021 1:13:57 PM
Date Processed   : 7/23/2021 8:25:11 AM
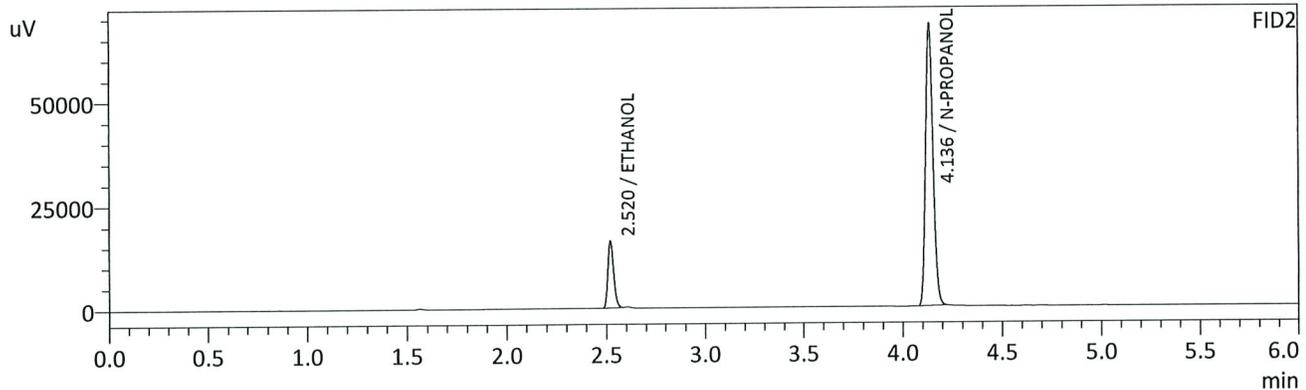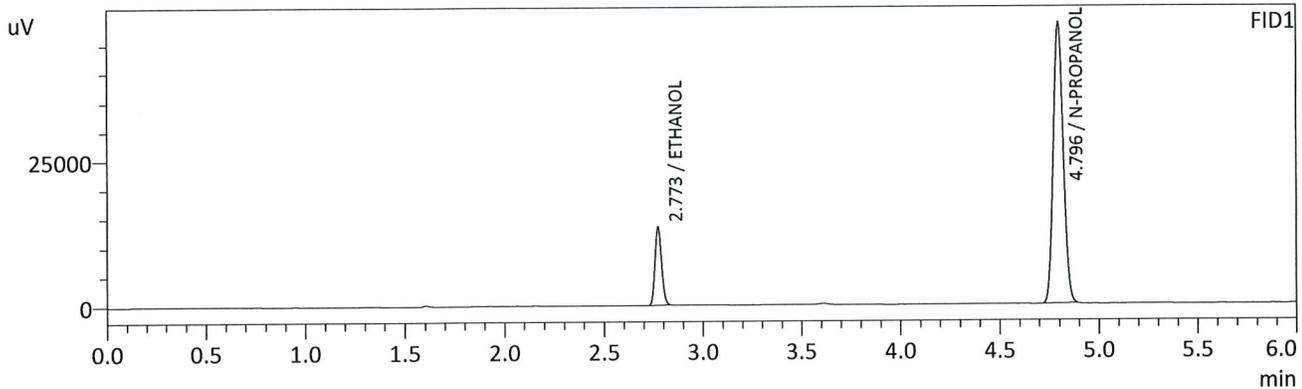
FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.1003	g/100cc	31364	13358
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	169322	48535
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.1003	g/100cc	32092	15927
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	178050	67748
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name   : 0.200
Vial #   : 3
Data Filename   : 0.200_7222021_003.gcd
Method Filename   : ALCOHOL.gcm
Batch Filename   : 07-22-21_ts.gcb
Date Acquired   : 7/22/2021 1:23:03 PM
Date Processed   : 7/23/2021 8:25:13 AM
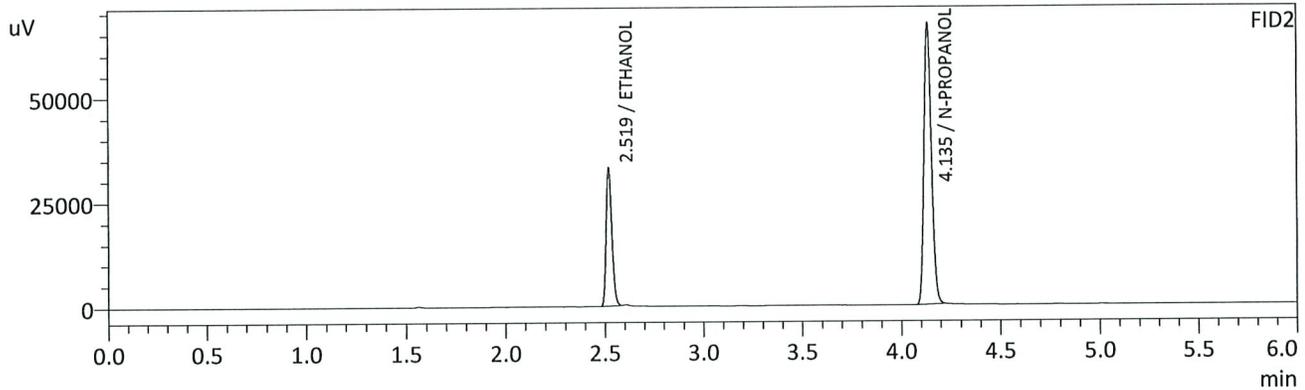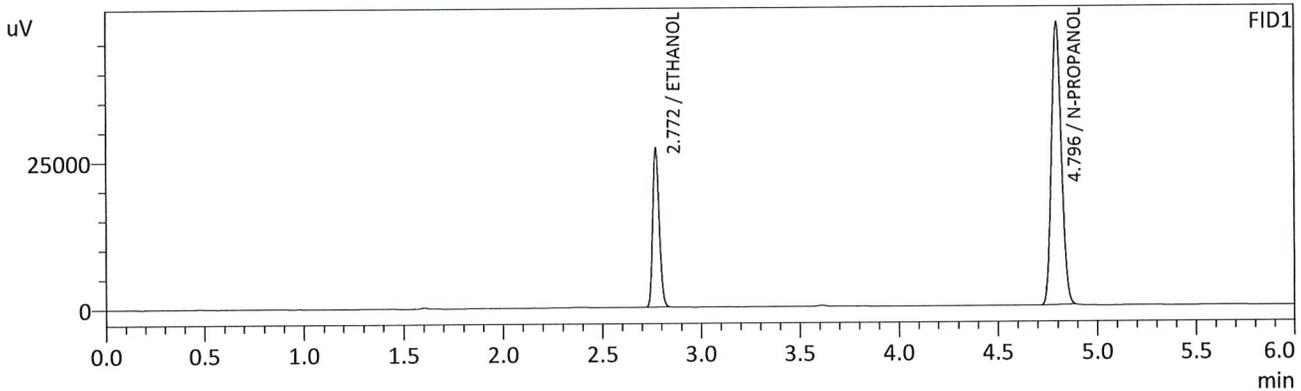
FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.1979	g/100cc	62552	26820
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	167146	47982
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.1974	g/100cc	64664	32624
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	175504	66646
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name   : 0.300
Vial #   : 4
Data Filename   : 0.300_7222021_004.gcd
Method Filename : ALCOHOL.gcm
Batch Filename   : 07-22-21_ts.gcb
Date Acquired   : 7/22/2021 1:31:37 PM
Date Processed   : 7/23/2021 8:25:14 AM
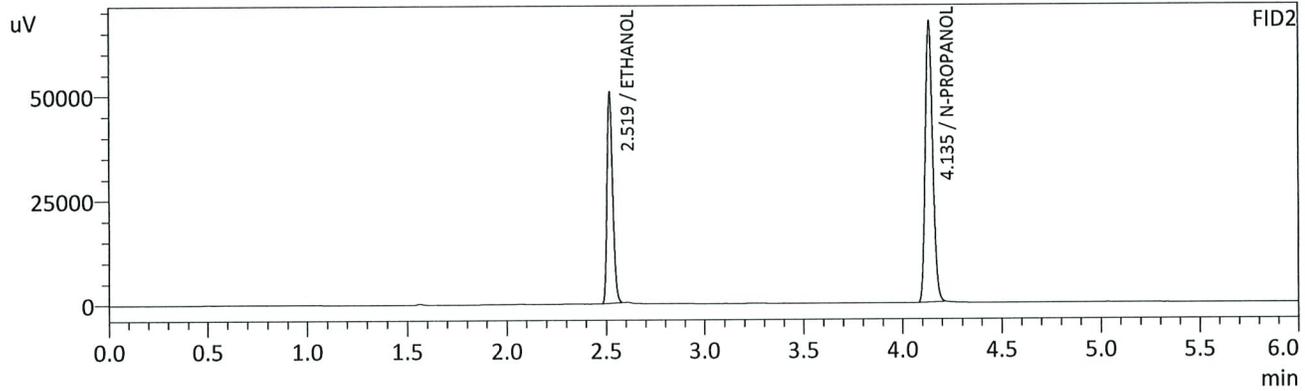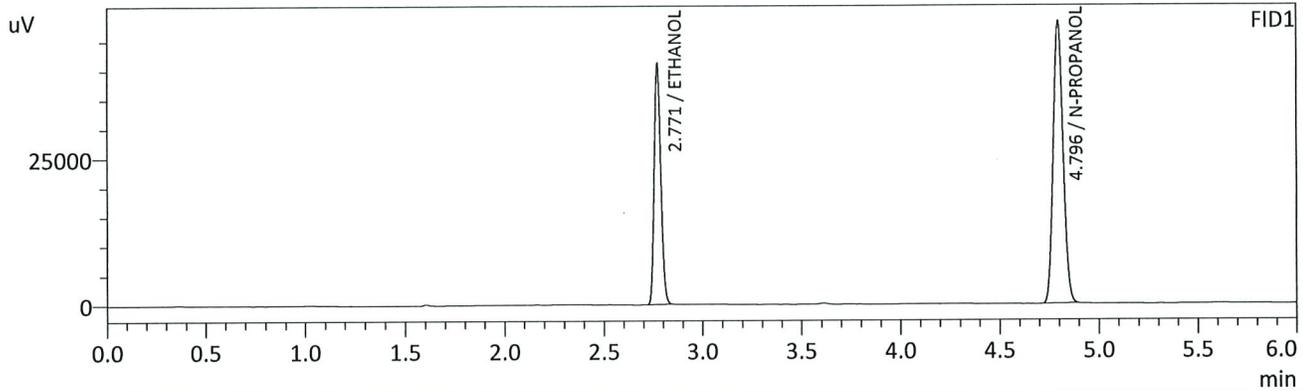
FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2974	g/100cc	95084	40898
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	167706	48135
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2970	g/100cc	98736	50207
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	175852	66759
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name   : 0.500
Vial #   : 5
Data Filename   : 0.500_7222021_005.gcd
Method Filename   : ALCOHOL.gcm
Batch Filename   : 07-22-21_ts.gcb
Date Acquired   : 7/22/2021 1:40:24 PM
Date Processed   : 7/23/2021 8:25:15 AM
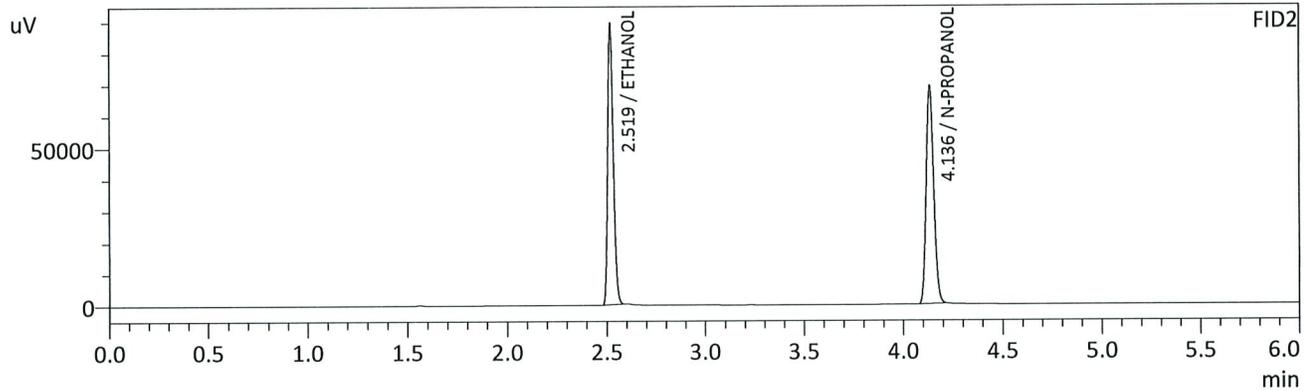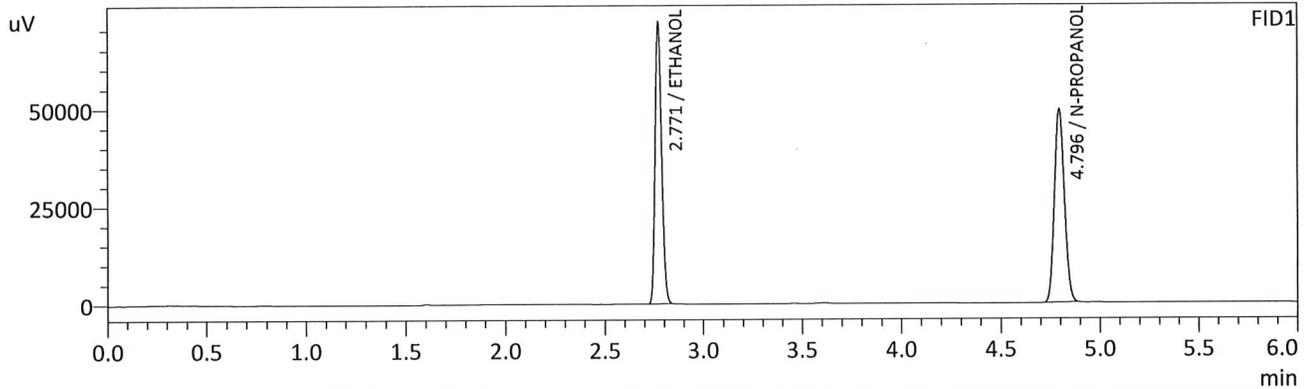
FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.5020	g/100cc	165660	71786
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	171940	49414
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.5024	g/100cc	172956	88662
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	180223	68634
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name   : INT STD BLK 1
Vial #   : 6
Data Filename   : INT STD BLK 1_7222021_006.gcd
Method Filename   : ALCOHOL.gcm
Batch Filename   : 07-22-21_ts.gcb
Date Acquired   : 7/22/2021 1:49:19 PM
Date Processed   : 7/23/2021 8:25:18 AM
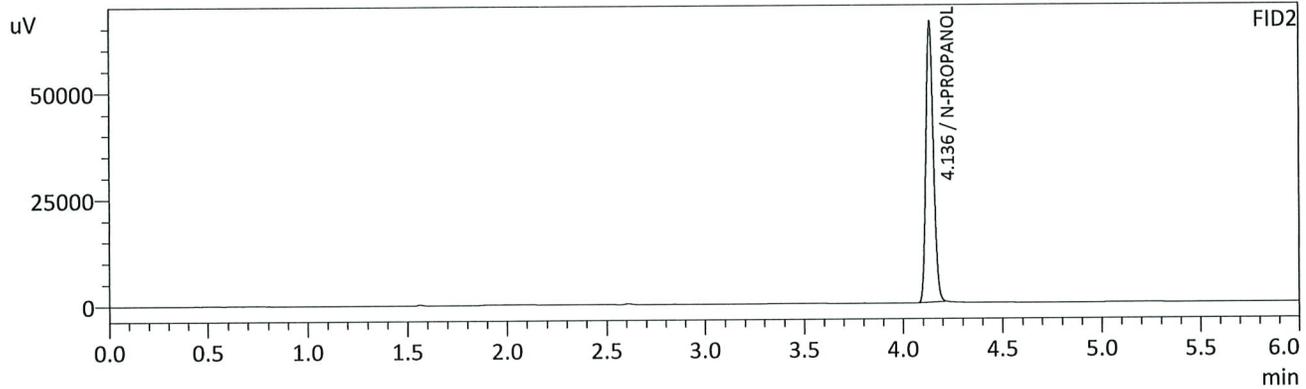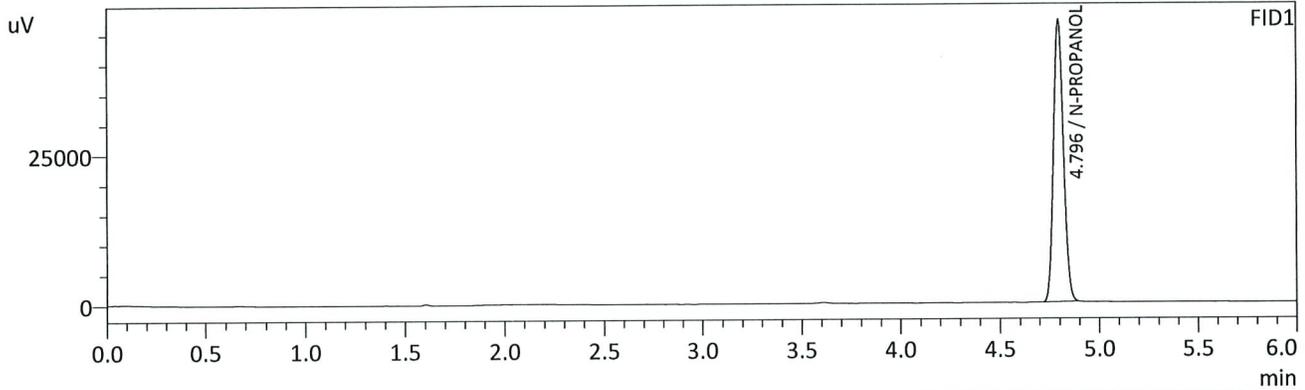
FID1

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	163616	46964
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	172227	65561
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name	: MULTI-COMP MIX
Vial #	: 7
Data Filename	: MULTI-COMP MIX_7222021_007.gcd
Method Filename	: ALCOHOL.gcm
Batch Filename	: 07-22-21_ts.gcb
Date Acquired	: 7/22/2021 1:57:57 PM
Date Processed	: 7/23/2021 8:25:19 AM

FID1

Peaks: 2.155 / METHANOL, 2.773 / ETHANOL, 3.429 / ISOPROPYL ALCOHOL, 3.742 / ACETONE, 4.797 / N-PROPANOL

FID2

Peaks: 2.072 / METHANOL, 2.523 / ETHANOL, 2.738 / ACETONE, 2.904 / ISOPROPYL ALCOHOL, 4.138 / N-PROPANOL
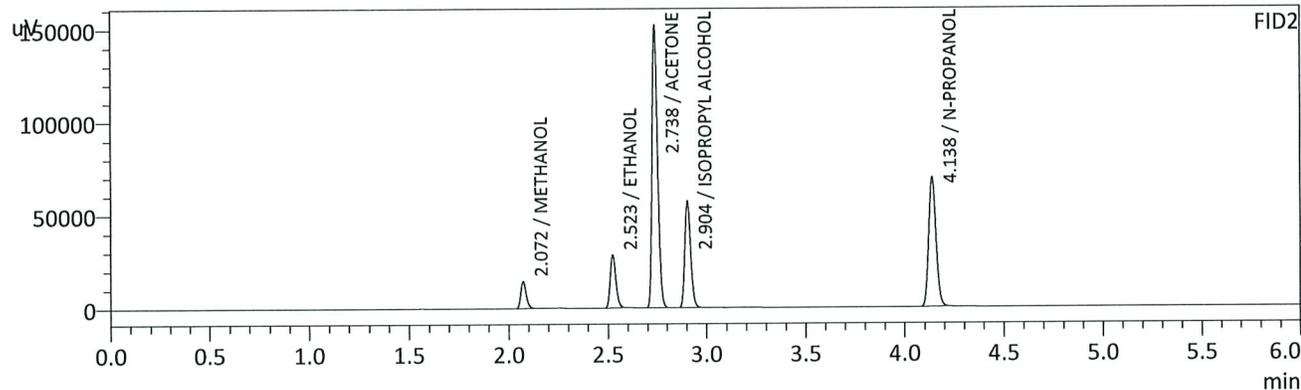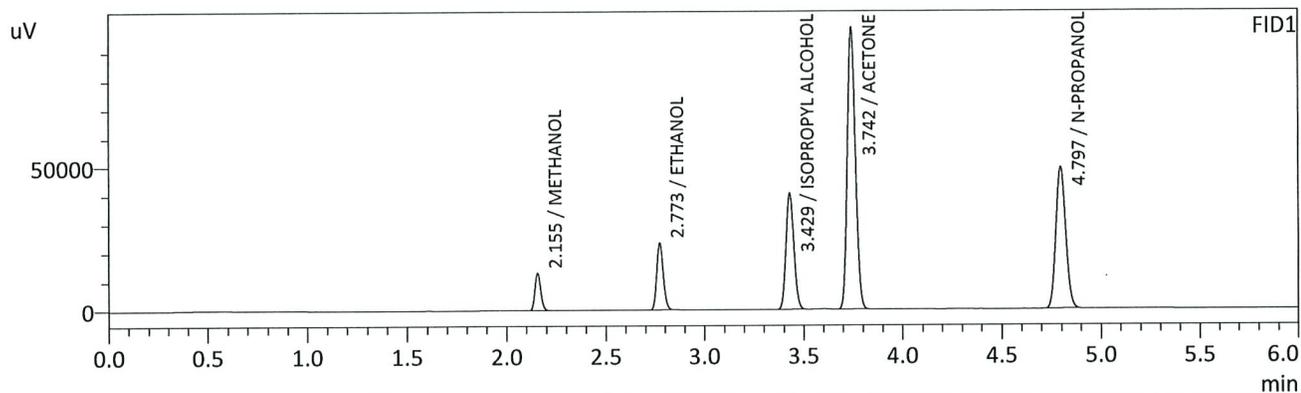
FID1

Name	Conc.	Unit	Area	Height
METHANOL	0.0000	g/100cc	26302	12972
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.1674	g/100cc	53712	23112
ISOPROPYL ALCOHOL	0.0000	g/100cc	111874	40347
ACETONE	0.0000	g/100cc	276666	97801
N-PROPANOL	0.0000	g/100cc	170445	49163
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	0.0000	g/100cc	26878	14239
ETHANOL	0.1665	g/100cc	55355	28284
ACETONE	0.0000	g/100cc	297449	150780
ISOPROPYL ALCOHOL	0.0000	g/100cc	117981	56691
N-PROPANOL	0.0000	g/100cc	179339	69143
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name   : INT STD BLK 2
Vial #   : 8
Data Filename   : INT STD BLK 2_7222021_008.gcd
Method Filename   : ALCOHOL.gcm
Batch Filename   : 07-22-21_ts.gcb
Date Acquired   : 7/22/2021 2:06:28 PM
Date Processed   : 7/23/2021 8:25:20 AM
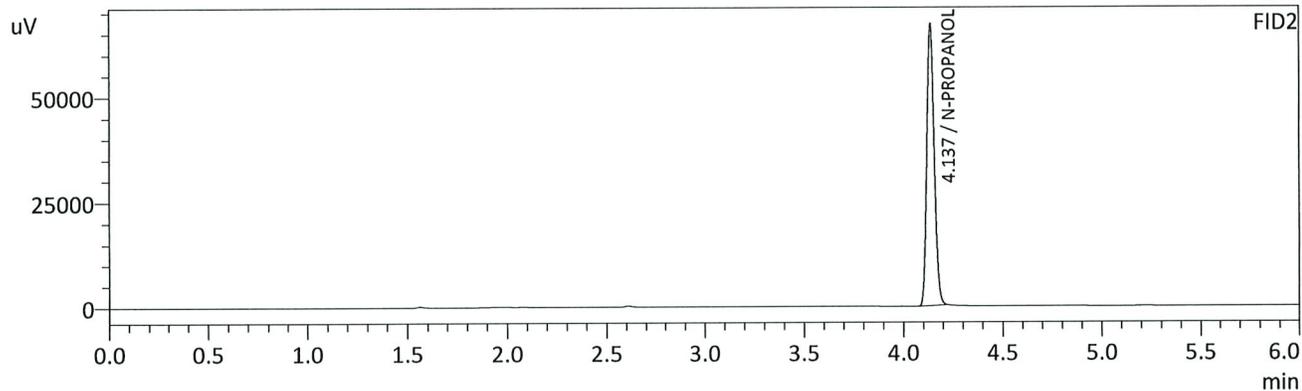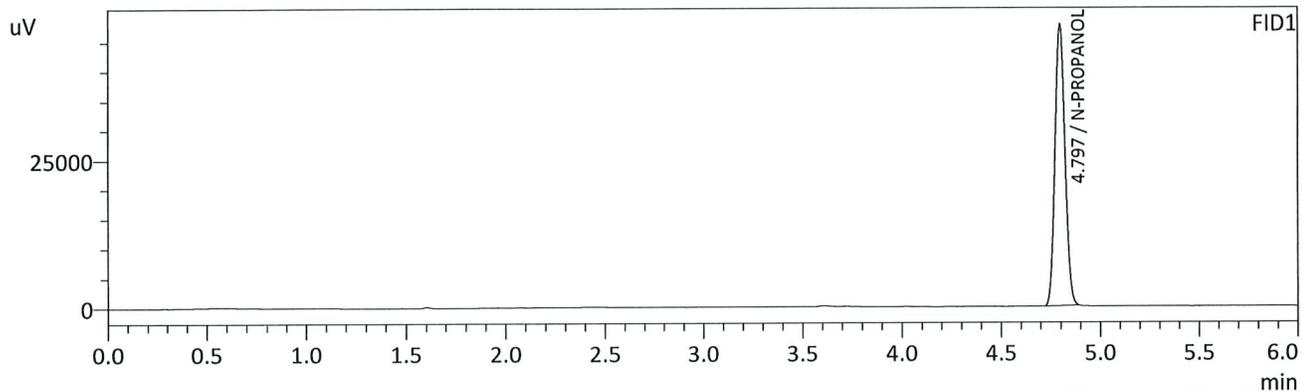
FID1

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	166338	47585
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	175033	66993
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC 1-1   **Analysis Date(s): 07/22/2021**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0726	0.0726	0.0000	0.0726		
(g/100cc)	0.0732	0.0727	0.0005	0.0729	0.0003	0.0727

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
0.072	0.068	0.076	0.004

	Reported Result	
	0.072	

Calibration and control data are stored centrally.

Sample Name   : QC-1-1-A
Vial #   : 9
Data Filename   : QC-1-1-A_7222021_009.gcd
Method Filename : ALCOHOL.gcm
Batch Filename   : 07-22-21_ts.gcb
Date Acquired   : 7/22/2021 2:15:26 PM
Date Processed   : 7/23/2021 8:25:21 AM
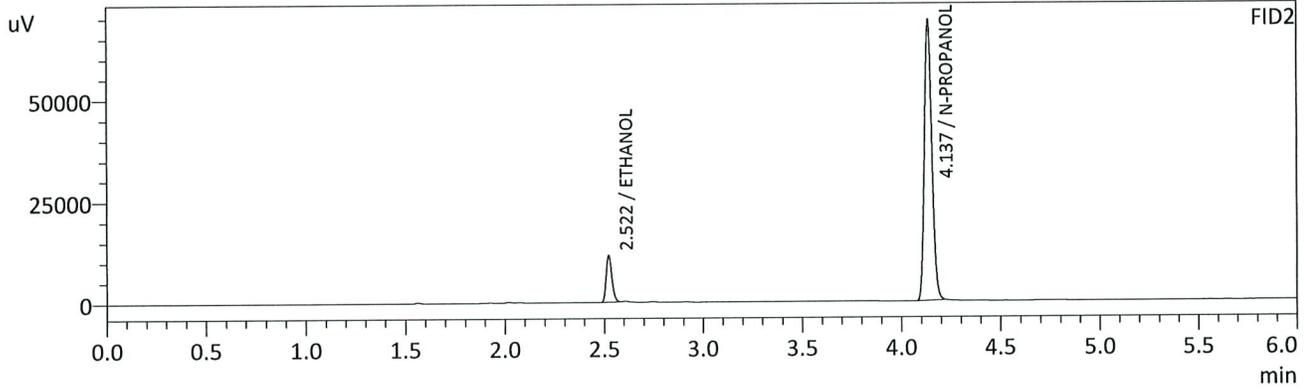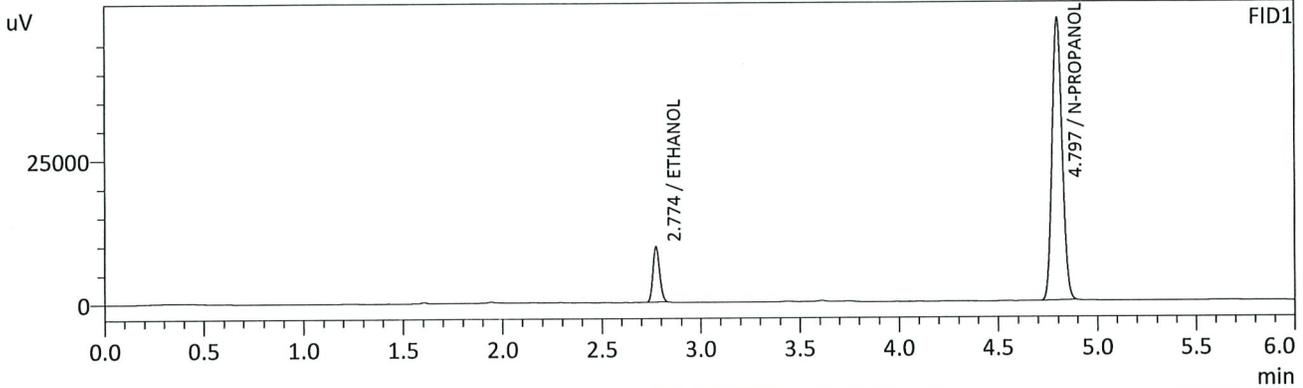
FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0726	g/100cc	22580	9646
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	171702	49050
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0726	g/100cc	22875	11473
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	180614	68978
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name   : QC-1-1-B
Vial #   : 10
Data Filename   : QC-1-1-B_7222021_010.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 07-22-21_ts.gcb
Date Acquired   : 7/22/2021 2:23:58 PM
Date Processed : 7/23/2021 8:25:22 AM
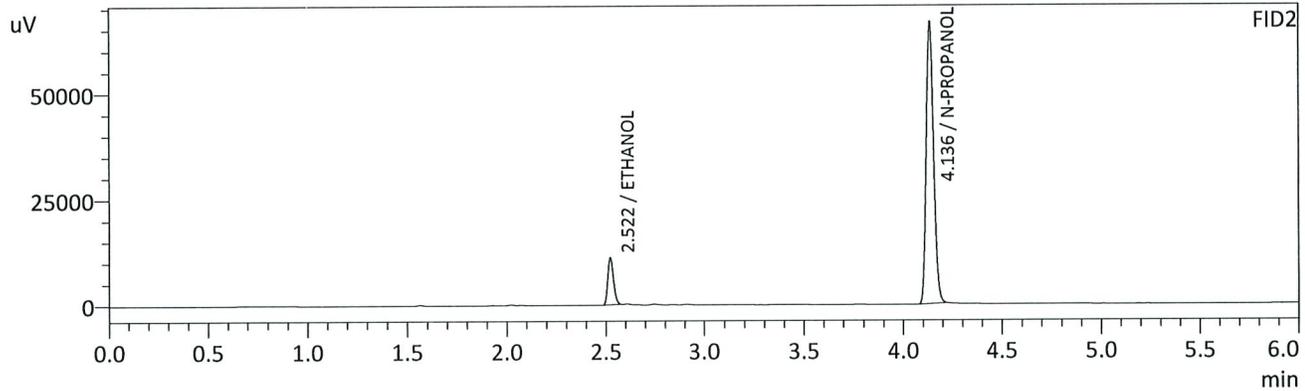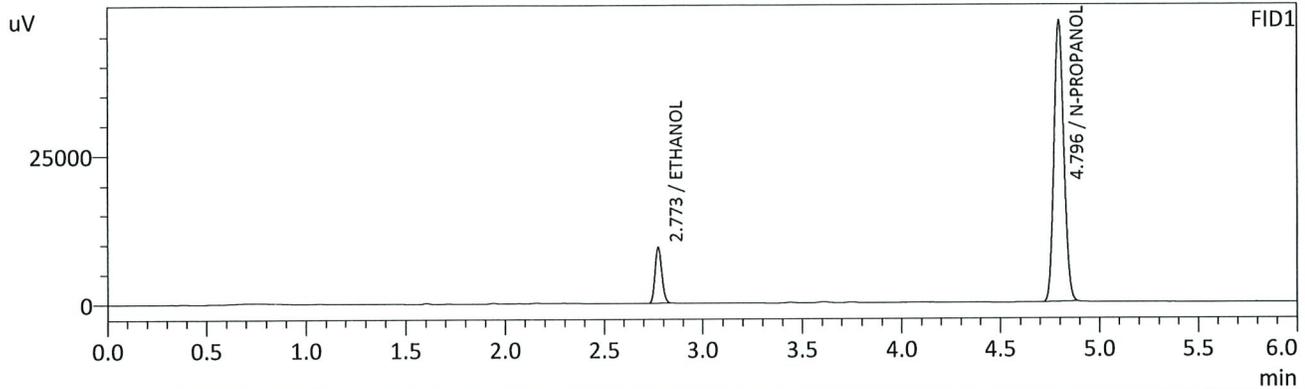
FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0732	g/100cc	21881	9360
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	164868	47306
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0727	g/100cc	22079	11117
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	173983	66346
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 QA   **Analysis Date(s): 07/22/2021**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0827	0.0824	0.0003	0.0825	0.0003	0.0826
(g/100cc)	0.0829	0.0827	0.0002	0.0828		

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
0.082	0.077	0.087	0.005

	Reported Result	
	0.082	

Calibration and control data are stored centrally.

TS

Sample Name   : 0.08 QA - A
Vial #   : 11
Data Filename   : 0.08 QA - A_7222021_011.gcd
Method Filename : ALCOHOL.gcm
Batch Filename   : 07-22-21_ts.gcb
Date Acquired   : 7/22/2021 2:32:39 PM
Date Processed   : 7/23/2021 8:25:23 AM
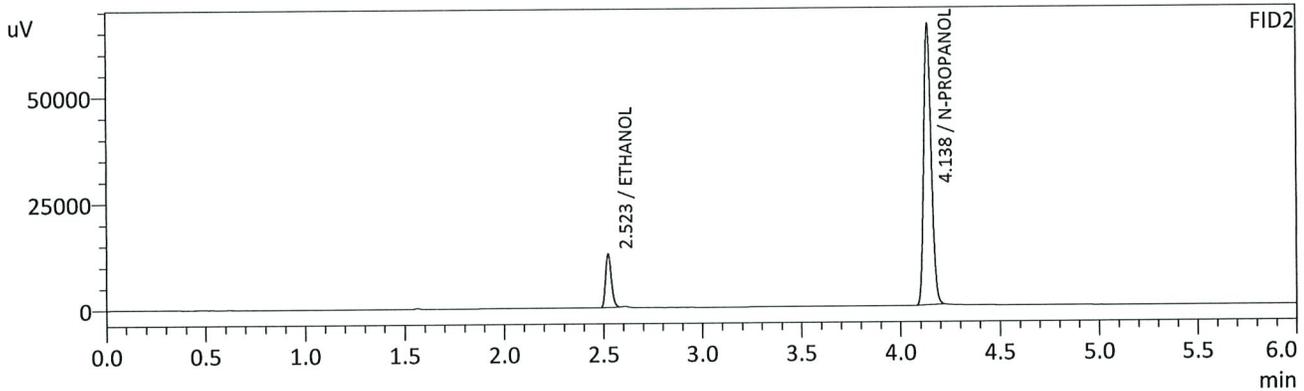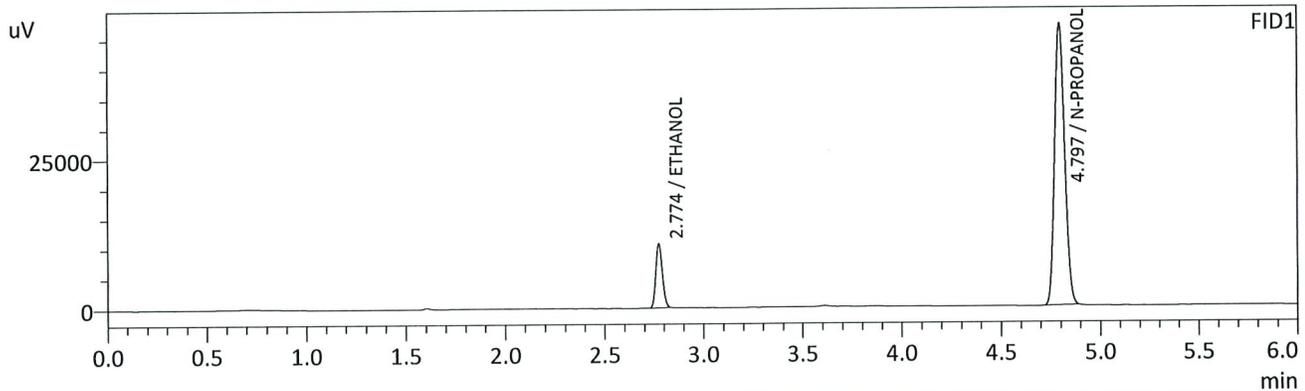
FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0827	g/100cc	24812	10623
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	164273	46872
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0824	g/100cc	25133	12617
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	172505	66115
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

7/23/2021 8:25:25 AM Page 1 / 1

Sample Name   : 0.08 QA - B
Vial #   : 12
Data Filename   : 0.08 QA - B_7222021_012.gcd
Method Filename : ALCOHOL.gcm
Batch Filename   : 07-22-21_ts.gcb
Date Acquired   : 7/22/2021 2:41:15 PM
Date Processed   : 7/23/2021 8:25:25 AM
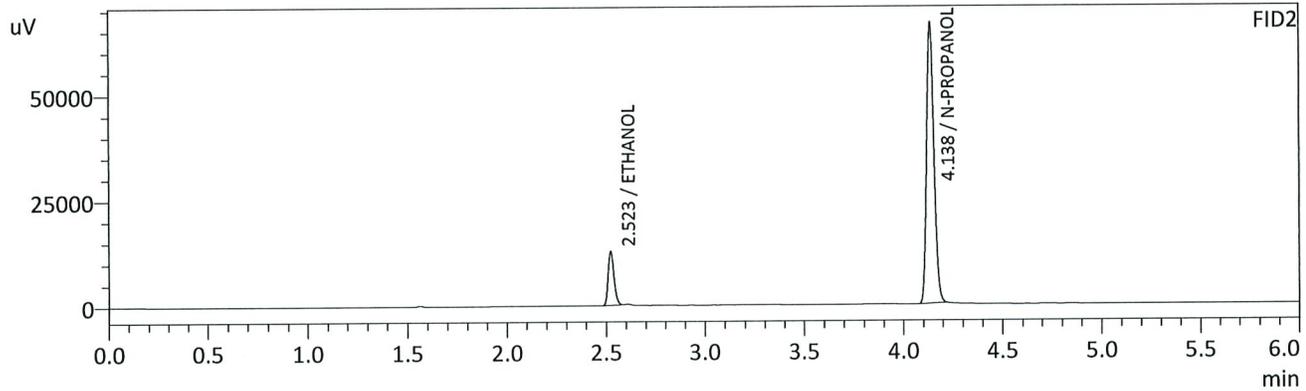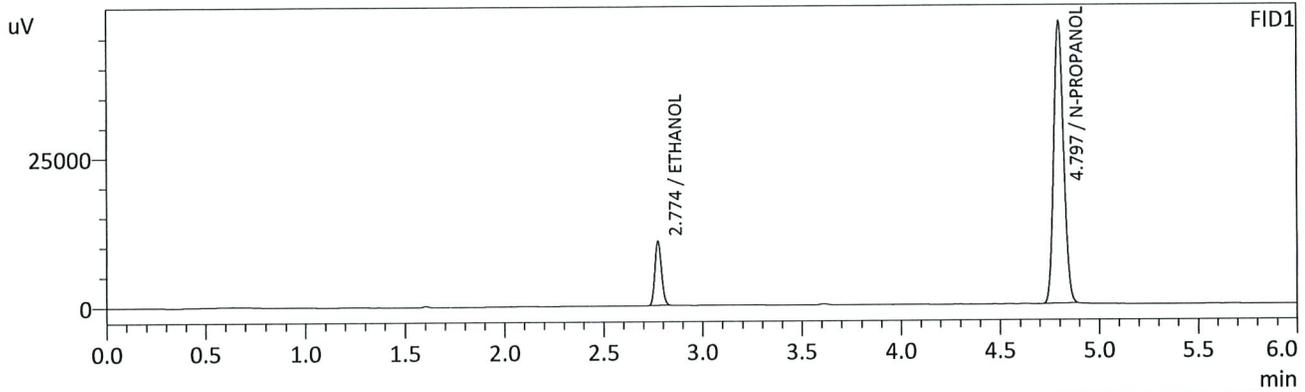
FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0829	g/100cc	25006	10711
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	165003	47236
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0827	g/100cc	25315	12679
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	173227	66487
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC 2-1   **Analysis Date(s): 07/22/2021**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2163	0.2153	0.0010	0.2158	0.0024	0.2146
(g/100cc)	0.2140	0.2128	0.0012	0.2134		

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
0.214	0.203	0.225	0.011

	Reported Result	
	0.214	

Calibration and control data are stored centrally.

TS

Sample Name   : QC-2-1-A
Vial #   : 31
Data Filename   : QC-2-1-A_7222021_031.gcd
Method Filename   : ALCOHOL.gcm
Batch Filename   : 07-22-21_ts.gcb
Date Acquired   : 7/22/2021 5:30:06 PM
Date Processed   : 7/23/2021 8:25:47 AM
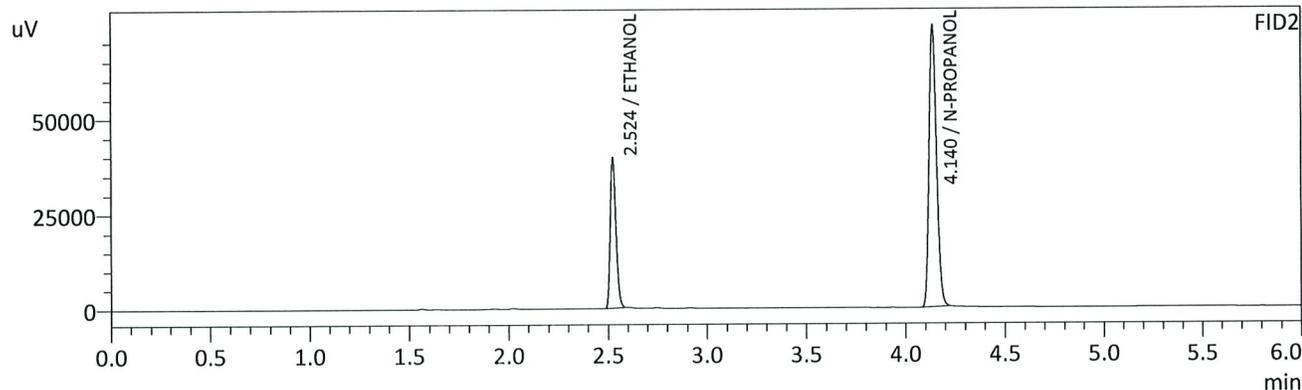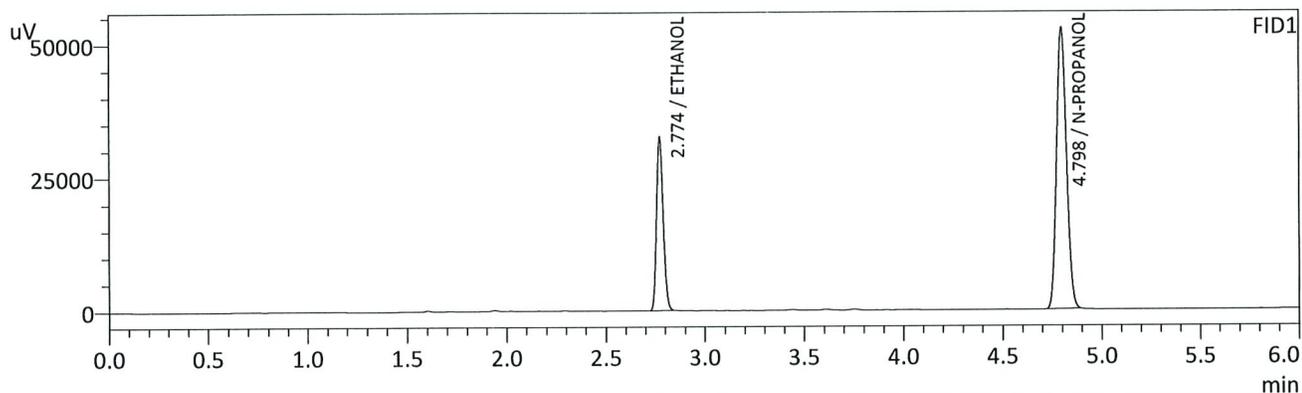
FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2163	g/100cc	75469	32370
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	184087	52569
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2153	g/100cc	77749	39154
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	192818	73285
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name   : QC-2-1-B
Vial #   : 32
Data Filename   : QC-2-1-B_7222021_032.gcd
Method Filename   : ALCOHOL.gcm
Batch Filename   : 07-22-21_ts.gcb
Date Acquired   : 7/22/2021 5:38:53 PM
Date Processed   : 7/23/2021 8:25:49 AM
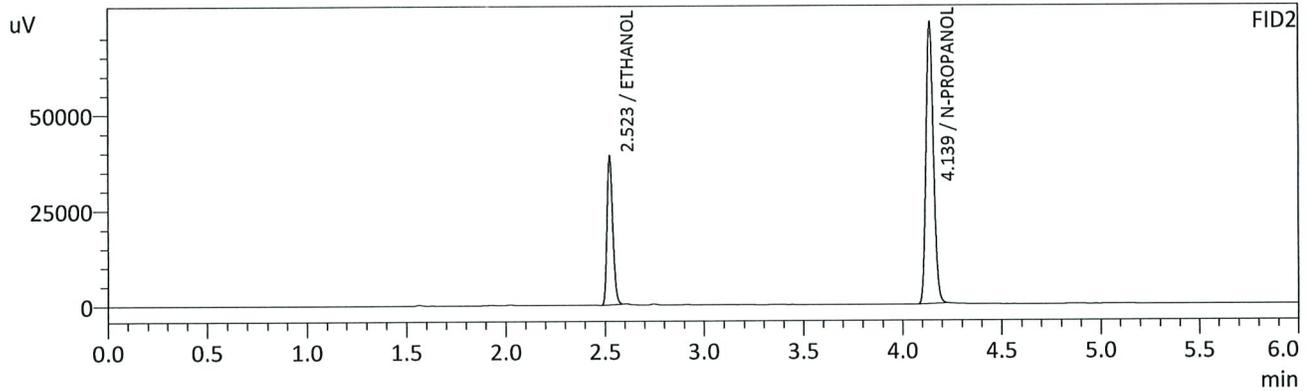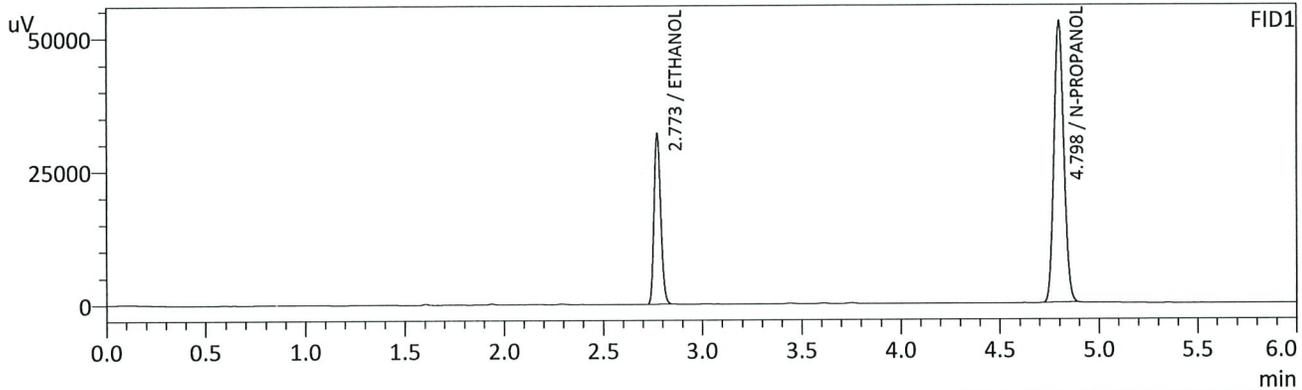
FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2140	g/100cc	74377	31843
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	183443	52521
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2128	g/100cc	76619	38875
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	192305	73350
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2   **Analysis Date(s): 07/22/2021**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0859	0.0850	0.0009	0.0854	0.0010	0.0859
(g/100cc)	0.0868	0.0861	0.0007	0.0864		

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
0.085	0.080	0.090	0.005

	Reported Result	
	0.085	

Calibration and control data are stored centrally.

* QC1-2 outside of acceptable range.
Samples associated with vial #s 33-69
will be reanalyzed at a later date.
7/27/21 TS

TS

Sample Name	: QC1-2-A
Vial #	: 53
Data Filename	: QC1-2-A_7222021_053.gcd
Method Filename	: ALCOHOL.gcm
Batch Filename	: 07-22-21_ts.gcb
Date Acquired	: 7/22/2021 8:45:00 PM
Date Processed	: 7/23/2021 8:26:13 AM
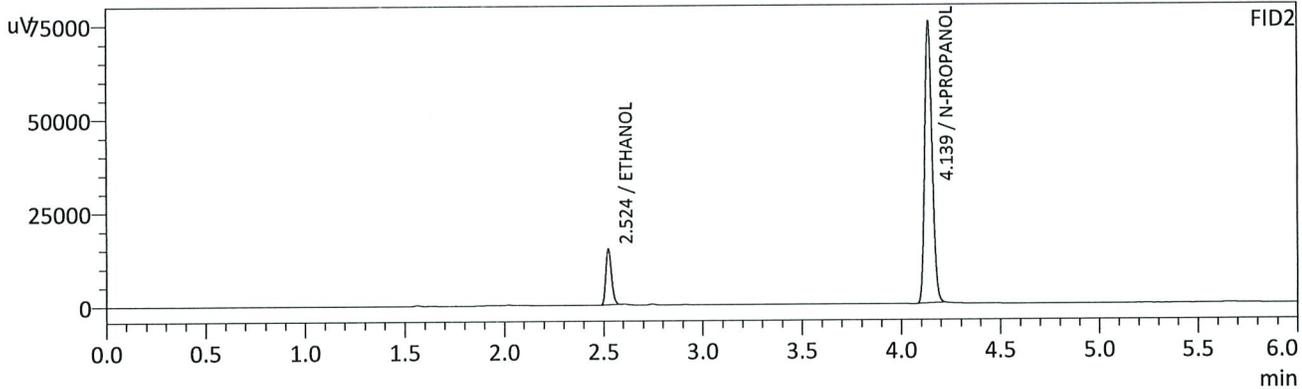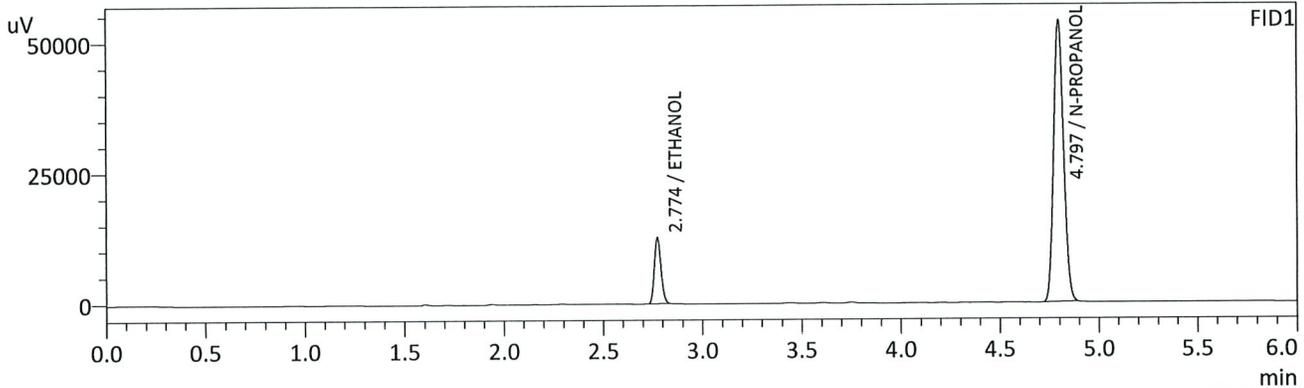
FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0859	g/100cc	29428	12574
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	187162	53678
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0850	g/100cc	29607	14809
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	196532	75150
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name   : QC1-2-B
Vial #   : 54
Data Filename   : QC1-2-B_7222021_054.gcd
Method Filename   : ALCOHOL.gcm
Batch Filename   : 07-22-21_ts.gcb
Date Acquired   : 7/22/2021 8:54:04 PM
Date Processed   : 7/23/2021 8:26:14 AM
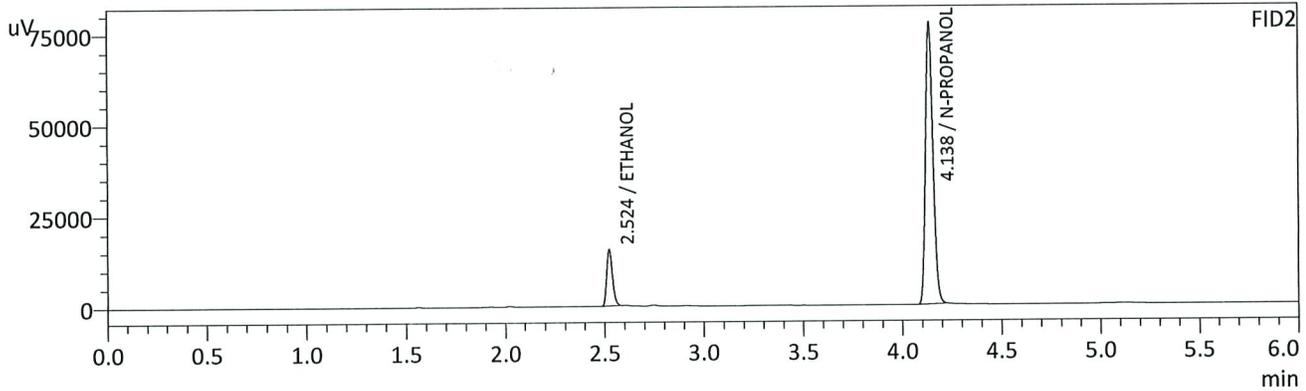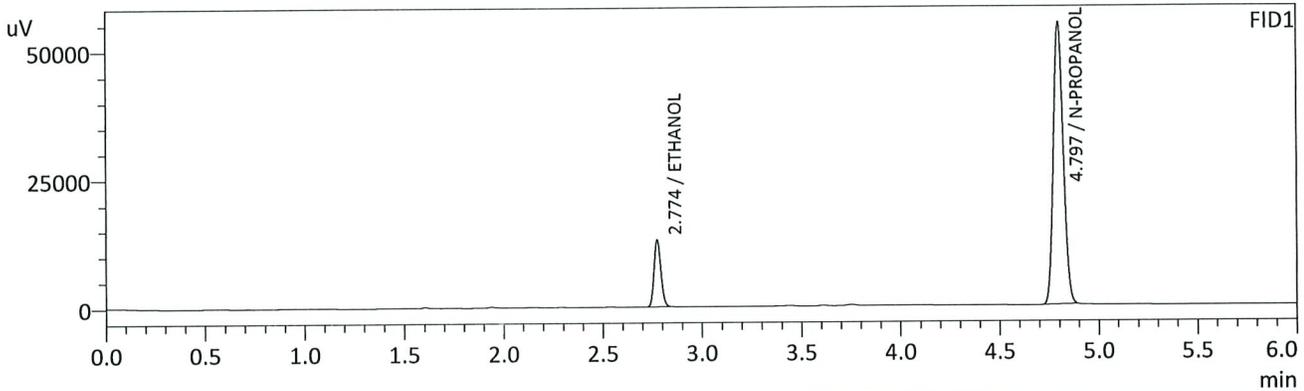
FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0868	g/100cc	30452	13003
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	191446	54840
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0861	g/100cc	30727	15422
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	201188	77264
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-2   **Analysis Date(s): 07/22/2021**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2167	0.2157	0.0010	0.2162	0.0025	0.2149
(g/100cc)	0.2144	0.2131	0.0013	0.2137		

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
0.214	0.203	0.225	0.011

	Reported Result	
	0.214	

Calibration and control data are stored centrally.

TS

Sample Name   : QC2-2-A
Vial #   : 67
Data Filename   : QC2-2-A_7222021_067.gcd
Method Filename   : ALCOHOL.gcm
Batch Filename   : 07-22-21_ts.gcb
Date Acquired   : 7/22/2021 10:49:11 PM
Date Processed   : 7/23/2021 8:26:30 AM
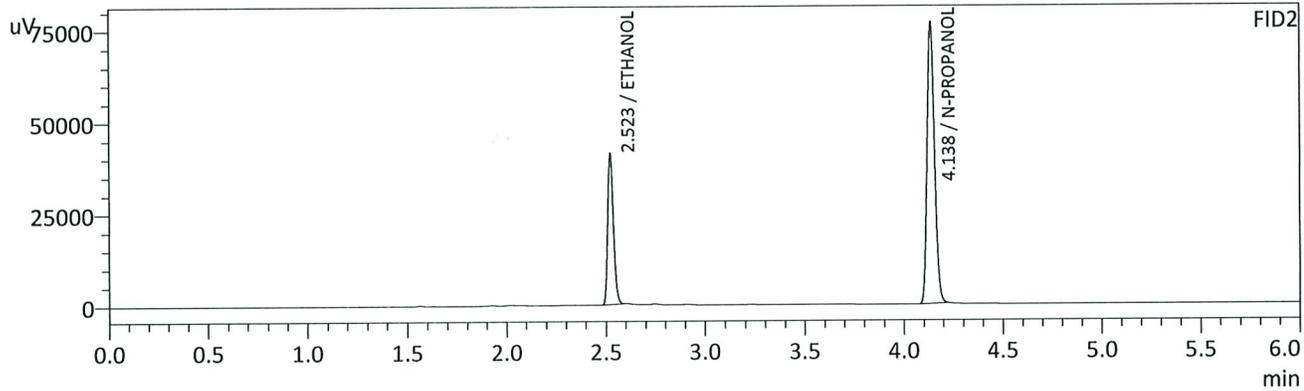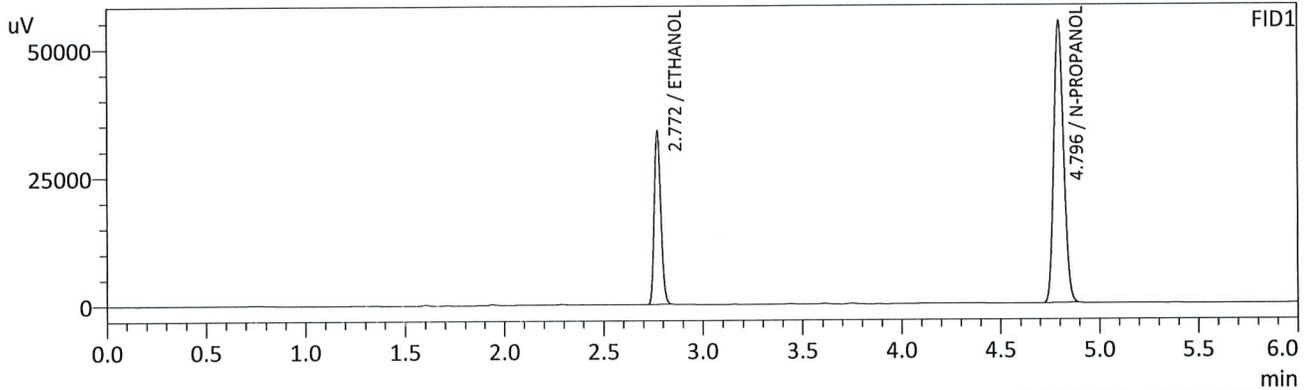
FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2167	g/100cc	78413	33389
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	190921	54899
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2157	g/100cc	80780	41068
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	199967	76668
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name   : QC2-2-B
Vial #   : 68
Data Filename   : QC2-2-B_7222021_068.gcd
Method Filename : ALCOHOL.gcm
Batch Filename   : 07-22-21_ts.gcb
Date Acquired   : 7/22/2021 10:58:09 PM
Date Processed   : 7/23/2021 8:26:32 AM
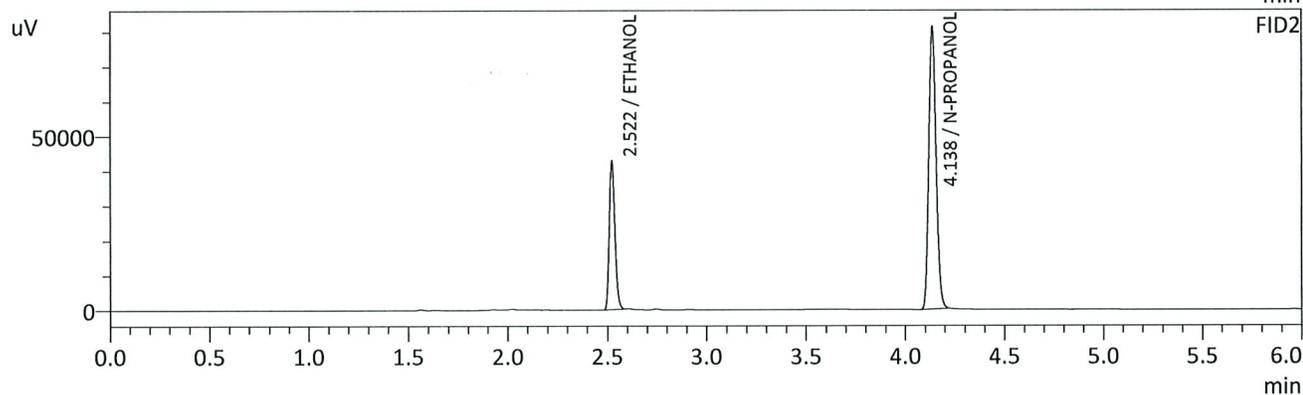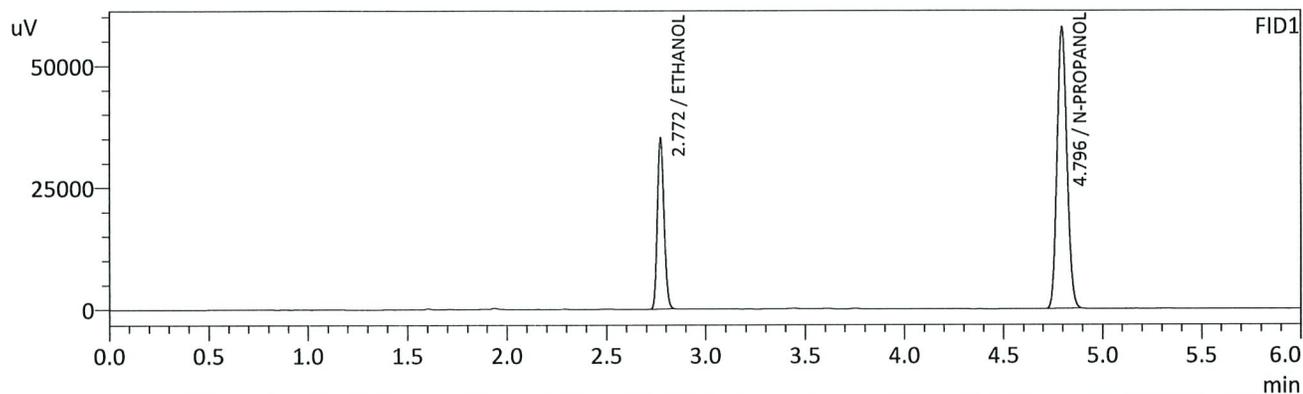
FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2144	g/100cc	81492	34657
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	200628	57653
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2131	g/100cc	83986	42575
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	210485	81151
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Sample Name   : INT STD BLK 3
Vial #   : 69
Data Filename   : INT STD BLK 3_7222021_069.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 07-22-21_ts.gcb
Date Acquired   : 7/22/2021 11:06:58 PM
Date Processed : 7/23/2021 8:26:33 AM
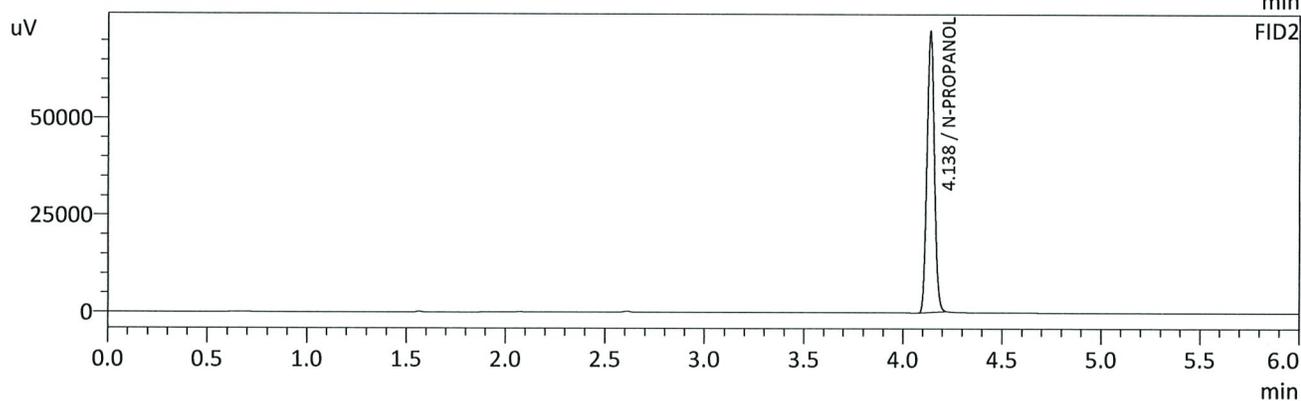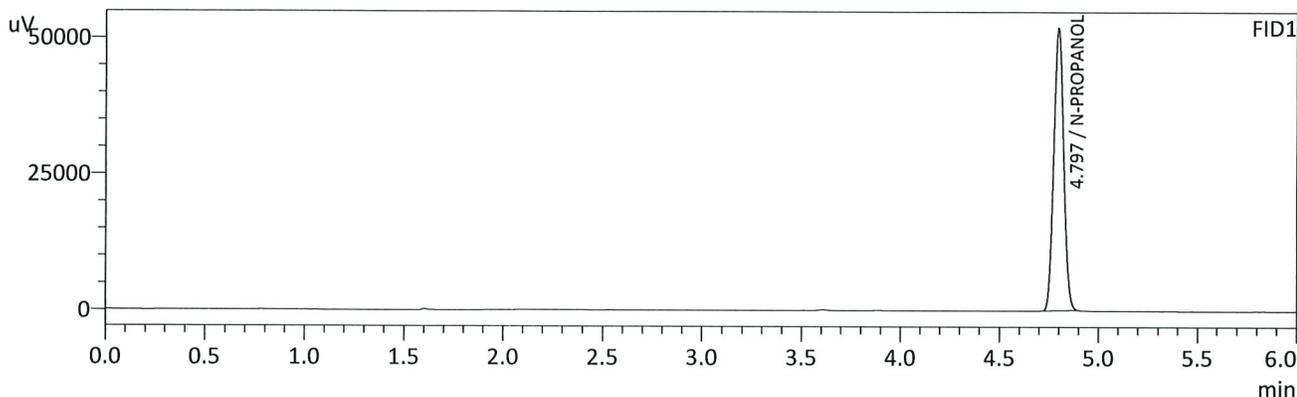
FID1

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	180546	51718
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	189077	72446
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

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_7222021_001.gcd	1
2	0.100	1:Standard:(R)	ALCOHOL.gcm	0.100_7222021_002.gcd	2
3	0.200	1:Standard:(R)	ALCOHOL.gcm	0.200_7222021_003.gcd	3
4	0.300	1:Standard:(R)	ALCOHOL.gcm	0.300_7222021_004.gcd	4
5	0.500	1:Standard:(R)	ALCOHOL.gcm	0.500_7222021_005.gcd	5
6	INT STD BLK 1	0:Unknown	ALCOHOL.gcm	INT STD BLK 1_7222021_006.gcd	0
7	MULTI-COMP MIX	0:Unknown	ALCOHOL.gcm	MULTI-COMP MIX_7222021_007.gcd	1
8	INT STD BLK 2	0:Unknown	ALCOHOL.gcm	INT STD BLK 2_7222021_008.gcd	0
9	QC-1-1-A	0:Unknown	ALCOHOL.gcm	QC-1-1-A_7222021_009.gcd	0
10	QC-1-1-B	0:Unknown	ALCOHOL.gcm	QC-1-1-B_7222021_010.gcd	0
11	0.08 QA - A	0:Unknown	ALCOHOL.gcm	0.08 QA - A_7222021_011.gcd	0
12	0.08 QA - B	0:Unknown	ALCOHOL.gcm	0.08 QA - B_7222021_012.gcd	0
13	P2021-1726-1-A	0:Unknown	ALCOHOL.gcm	P2021-1726-1-A_7222021_013.gcd	0
14	P2021-1726-1-B	0:Unknown	ALCOHOL.gcm	P2021-1726-1-B_7222021_014.gcd	0
15	P2021-2048-1-A	0:Unknown	ALCOHOL.gcm	P2021-2048-1-A_7222021_015.gcd	0
16	P2021-2048-1-B	0:Unknown	ALCOHOL.gcm	P2021-2048-1-B_7222021_016.gcd	0
17	P2021-2049-1-A	0:Unknown	ALCOHOL.gcm	P2021-2049-1-A_7222021_017.gcd	0
18	P2021-2049-1-B	0:Unknown	ALCOHOL.gcm	P2021-2049-1-B_7222021_018.gcd	0
19	P2021-2050-1-A	0:Unknown	ALCOHOL.gcm	P2021-2050-1-A_7222021_019.gcd	0
20	P2021-2050-1-B	0:Unknown	ALCOHOL.gcm	P2021-2050-1-B_7222021_020.gcd	0
21	P2021-2067-1-A	0:Unknown	ALCOHOL.gcm	P2021-2067-1-A_7222021_021.gcd	0
22	P2021-2067-1-B	0:Unknown	ALCOHOL.gcm	P2021-2067-1-B_7222021_022.gcd	0
23	P2021-2072-1-A	0:Unknown	ALCOHOL.gcm	P2021-2072-1-A_7222021_023.gcd	0
24	P2021-2072-1-B	0:Unknown	ALCOHOL.gcm	P2021-2072-1-B_7222021_024.gcd	0
25	P2021-2074-1-A	0:Unknown	ALCOHOL.gcm	P2021-2074-1-A_7222021_025.gcd	0
26	P2021-2074-1-B	0:Unknown	ALCOHOL.gcm	P2021-2074-1-B_7222021_026.gcd	0
27	P2021-2096-1-A	0:Unknown	ALCOHOL.gcm	P2021-2096-1-A_7222021_027.gcd	0
28	P2021-2096-1-B	0:Unknown	ALCOHOL.gcm	P2021-2096-1-B_7222021_028.gcd	0
29	P2021-2099-1-A	0:Unknown	ALCOHOL.gcm	P2021-2099-1-A_7222021_029.gcd	0
30	P2021-2099-1-B	0:Unknown	ALCOHOL.gcm	P2021-2099-1-B_7222021_030.gcd	0
31	QC-2-1-A	0:Unknown	ALCOHOL.gcm	QC-2-1-A_7222021_031.gcd	0
32	QC-2-1-B	0:Unknown	ALCOHOL.gcm	QC-2-1-B_7222021_032.gcd	0
33	P2021-2114-1-A	0:Unknown	ALCOHOL.gcm	P2021-2114-1-A_7222021_033.gcd	0
34	P2021-2114-1-B	0:Unknown	ALCOHOL.gcm	P2021-2114-1-B_7222021_034.gcd	0
35	P2021-2129-1-A	0:Unknown	ALCOHOL.gcm	P2021-2129-1-A_7222021_035.gcd	0
36	P2021-2129-1-B	0:Unknown	ALCOHOL.gcm	P2021-2129-1-B_7222021_036.gcd	0
37	P2021-2182-3-A	0:Unknown	ALCOHOL.gcm	P2021-2182-3-A_7222021_037.gcd	0
38	P2021-2182-3-B	0:Unknown	ALCOHOL.gcm	P2021-2182-3-B_7222021_038.gcd	0
39	P2021-2187-1-A	0:Unknown	ALCOHOL.gcm	P2021-2187-1-A_7222021_039.gcd	0
40	P2021-2187-1-B	0:Unknown	ALCOHOL.gcm	P2021-2187-1-B_7222021_040.gcd	0
41	P2021-2190-1-A	0:Unknown	ALCOHOL.gcm	P2021-2190-1-A_7222021_041.gcd	0
42	P2021-2190-1-B	0:Unknown	ALCOHOL.gcm	P2021-2190-1-B_7222021_042.gcd	0
43	P2021-2202-1-A	0:Unknown	ALCOHOL.gcm	P2021-2202-1-A_7222021_043.gcd	0
44	P2021-2202-1-B	0:Unknown	ALCOHOL.gcm	P2021-2202-1-B_7222021_044.gcd	0
45	P2021-2205-1-A	0:Unknown	ALCOHOL.gcm	P2021-2205-1-A_7222021_045.gcd	0
46	P2021-2205-1-B	0:Unknown	ALCOHOL.gcm	P2021-2205-1-B_7222021_046.gcd	0
47	P2021-2206-1-A	0:Unknown	ALCOHOL.gcm	P2021-2206-1-A_7222021_047.gcd	0
48	P2021-2206-1-B	0:Unknown	ALCOHOL.gcm	P2021-2206-1-B_7222021_048.gcd	0
49	P2021-2207-1-A	0:Unknown	ALCOHOL.gcm	P2021-2207-1-A_7222021_049.gcd	0
50	P2021-2207-1-B	0:Unknown	ALCOHOL.gcm	P2021-2207-1-B_7222021_050.gcd	0
51	P2021-2209-1-A	0:Unknown	ALCOHOL.gcm	P2021-2209-1-A_7222021_051.gcd	0
52	P2021-2209-1-B	0:Unknown	ALCOHOL.gcm	P2021-2209-1-B_7222021_052.gcd	0

Sample in vial # 33-69 reanalyzed at a later date. 7/29/21 TS

Vial#	Sample Name	Sample Type	Method File	Data File	Level#
53	QC1-2-A	0:Unknown	ALCOHOL.gcm	QC1-2-A_7222021_053.gcd	0
54	QC1-2-B	0:Unknown	ALCOHOL.gcm	QC1-2-B_7222021_054.gcd	0
55	P2021-2210-1-A	0:Unknown	ALCOHOL.gcm	P2021-2210-1-A_7222021_055.gcd	0
56	P2021-2210-1-B	0:Unknown	ALCOHOL.gcm	P2021-2210-1-B_7222021_056.gcd	0
57	P2021-2282-1-A	0:Unknown	ALCOHOL.gcm	P2021-2282-1-A_7222021_057.gcd	0
58	P2021-2282-1-B	0:Unknown	ALCOHOL.gcm	P2021-2282-1-B_7222021_058.gcd	0
59	P2021-2283-1-A	0:Unknown	ALCOHOL.gcm	P2021-2283-1-A_7222021_059.gcd	0
60	P2021-2283-1-B	0:Unknown	ALCOHOL.gcm	P2021-2283-1-B_7222021_060.gcd	0
61	P2021-2358-1-A	0:Unknown	ALCOHOL.gcm	P2021-2358-1-A_7222021_061.gcd	0
62	P2021-2358-1-B	0:Unknown	ALCOHOL.gcm	P2021-2358-1-B_7222021_062.gcd	0
63	P2021-2366-2-A	0:Unknown	ALCOHOL.gcm	P2021-2366-2-A_7222021_063.gcd	0
64	P2021-2366-2-B	0:Unknown	ALCOHOL.gcm	P2021-2366-2-B_7222021_064.gcd	0
65	P2021-2368-1-A	0:Unknown	ALCOHOL.gcm	P2021-2368-1-A_7222021_065.gcd	0
66	P2021-2368-1-B	0:Unknown	ALCOHOL.gcm	P2021-2368-1-B_7222021_066.gcd	0
67	QC2-2-A	0:Unknown	ALCOHOL.gcm	QC2-2-A_7222021_067.gcd	0
68	QC2-2-B	0:Unknown	ALCOHOL.gcm	QC2-2-B_7222021_068.gcd	0
69	INT STD BLK 3	0:Unknown	ALCOHOL.gcm	INT STD BLK 3_7222021_069.gcd	0