Idaho State Police
Forensic Services

Re-reviewed
with addition
of deviation.   08/26/2022   TS

Request for Departure from an Analytical Method or Quality Standard

Deviation Number (assigned by QM):

Date of Request: 7/29/22

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

Analytical Method/Quality Standard, Revision #: **4.3.9.1.3 revision 10**

Temporary or Permanent Deviation: Permanent

Scope of Deviation (record specific information, e.g. affected programs, evidence types, expected end date; etc):

Blood alcohol and other volatiles

Deviation Request (Describe detailed instructions of the changes being made; include reference to specific section number(s) in the method manual):
4.3.9.1.3 revision 10
Acceptable IS recovery values for samples run with a specific calibration curve must have their FID1 and FID2 IS values fall within +/- 20% of the mean values established in 4.3.9.1.1.

Request to add the word "case" between for and samples so it reads:
"Acceptable IS recovery values for **case** samples run with…"

Technical Justification for Analytical Method Deviations:
This was discussed and agreed upon in previous Alcohol Discipline meetings. This additional clarification will minimize any potential misinterpretations of the requirement.

Technical Review

☒ Departure approved
  Comments: This will work for the immediate future until the method can be updated in a permanent manner. This deviation will be in effect until 12/31/2022 when the method will be updated to reflect the new language and understanding of the internal standard monitoring.

☐ Departure Not Approved
  Comments:

Approver: Jeremy Johnston   Date: 8/3/2022
Title: Volatiles Analysis Discipline Lead

Quality Review

Quality Approver:
Title:
Date:

Worklist: 6070

LAB CASE	ITEM	ITEM TYPE	DESCRIPTION	
P2022-2300	1	BCK	Alcohol Analysis	
P2022-2384	1	BLOOD	Alcohol Analysis	
P2022-2387	1	BLOOD	Alcohol Analysis	
P2022-2484	1	BCK	Alcohol Analysis	
P2022-2484	2	BCK	Alcohol Analysis	
P2022-2517	1	BCK	Alcohol Analysis	
P2022-2519	1	BCK	Alcohol Analysis	
P2022-2521	1	BLOOD	Alcohol Analysis	
P2022-2541	1	BCK	Alcohol Analysis	
P2022-2542	1	BCK	Alcohol Analysis	
P2022-2543	1	BCK	Alcohol Analysis	
P2022-2544	1	BCK	Alcohol Analysis	
P2022-2545	1	BCK	Alcohol Analysis	
P2022-2576	1	BCK	Alcohol Analysis	
P2022-2580	1	BLOOD	Alcohol Analysis	
P2022-2582	1	BLOOD	Alcohol Analysis	
P2022-2588	1	BLOOD	Alcohol Analysis	
P2022-2588	2	BLOOD	Alcohol Analysis	
P2022-2603	1	BCK	Alcohol Analysis	
P2022-2604	1	BCK	Alcohol Analysis	
P2022-2613	1	BCK	Alcohol Analysis	

Worklist: 6070

LAB CASE	ITEM	ITEM TYPE	DESCRIPTION
P2022-2614	1	BCK	Alcohol Analysis
P2022-2625	1	BCK	Alcohol Analysis
P2022-2630	1	BCK	Alcohol Analysis

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): **8/23/22**

Calibration Date: *(if different)*

Worklist #: 6070

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results	
Level 1	Jul-23	1907006	0.0764	0.0688-0.0840	0.0739	g/100cc
					0.0805	g/100cc
						g/100cc
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.2104	g/100cc
					0.2182	g/100cc
						g/100cc

Multi-Component mixture:	Exp:	2024 October	Lot #	FN06041902 OK	
Curve Fit:		Column 1	0.99999	Column2	0.99995

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	0.1001	0	0.1001
200	0.200	0.180 - 0.220	0.1992	0.1985	0.0007	0.1988
300	0.300	0.270 - 0.330	0.2997	0.2990	0.0007	0.2993
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5003	0.5010	0.0007	0.5006

Aqueous Controls

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

Internal Standard Monitoring Worksheet

Worklist #:	6070	Run Date(s):	8/23/22

Internal Standard Solution:		Prep Date:	8/17/2022	Exp Date:	2/17/2023

Sample Name	Column 1 Value	Column 2 Value
0.080	165592	176651
0.080	167139	178319
QC1	168240	179634
QC1	168176	179569
QC1	172904	184692
QC1	180303	192657
QC1		
QC1		
QC2	168463	179869
QC2	170233	181584
QC2	185366	197941
QC2	187160	199683
QC2		
QC2		

	Average	(-)20%	(+)20%
Column 1	173357.6	138686.1	208029.1
Column 2	185059.9	148047.9	222071.9

BLALC Volatiles QA_QC Data Spreadsheet-v5.xls

Laboratory: Pocatello
Instrument Name   : GC2030-HS20

<<Data File>>
Method File   :C:\LabSolutions\Data\2022\8-23-22 RC\ALCOHOL.gcm
Batch File   :C:\LabSolutions\Data\2022\8-23-22 RC\8-23-22 BATCH.gcb
Date Acquired   :8/23/2022 11:03:22 AM
Date Created   :8/23/2022 10:59:58 AM
Date Modified   :8/25/2022 8:36:46 AM
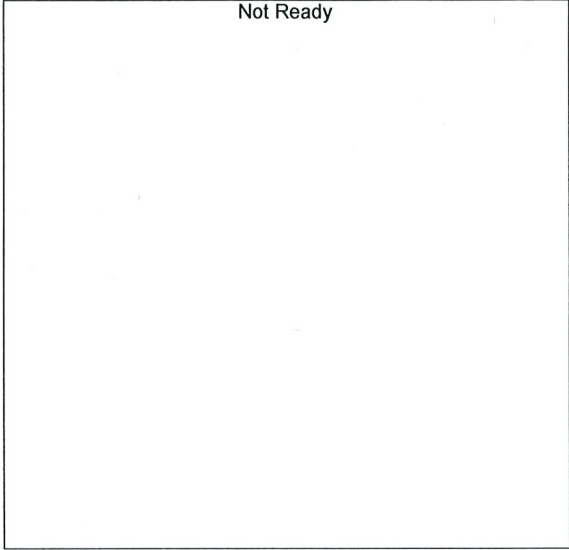
Not Ready

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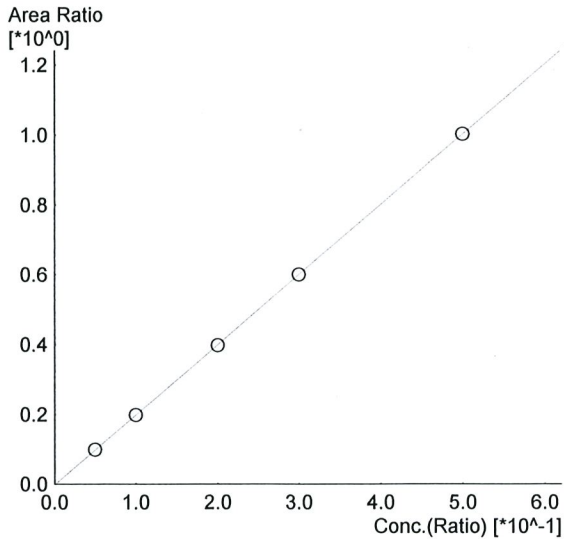Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name

Not Ready

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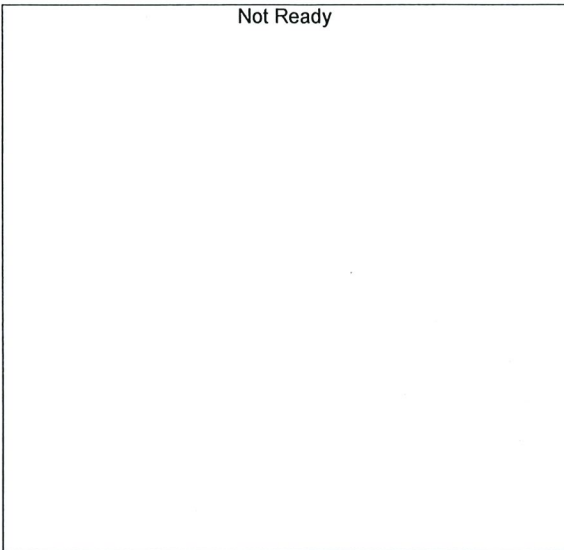R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name

Area Ratio [*10^0]
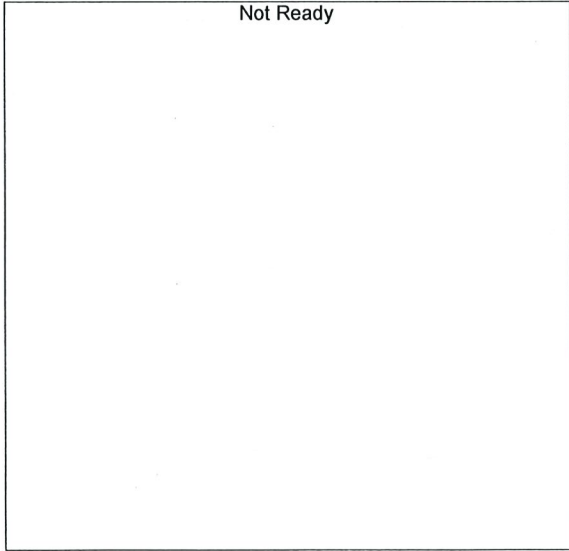
Name : ETHANOL
Detector Name: FID1
Function : f(x)=2.00832*x-0.00294240
R^2 value= 0.9999925
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
1	0.050	16393	0.0504	0.050_8232022_001.gcd
2	0.100	33253	0.1001	0.100_8232022_002.gcd
3	0.200	67109	0.1992	0.200_8232022_003.gcd
4	0.300	100946	0.2997	0.300_8232022_004.gcd
5	0.500	169123	0.5003	0.500_8232022_005.gcd

Not Ready

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

Not Ready

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
R^2 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
R^2 value= 0
FitType: Linear
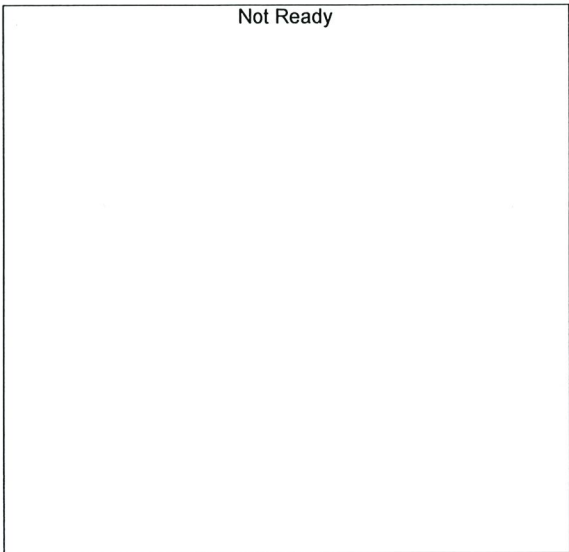ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name

| Not Ready |

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

#	Conc.	Area	Std. Conc.	Data File Name

Not Ready

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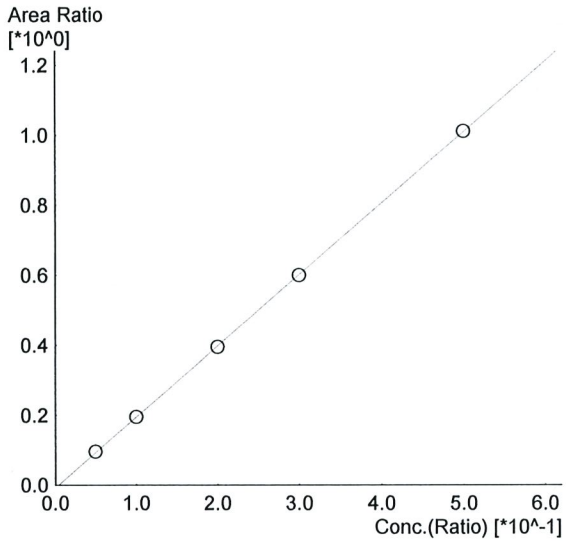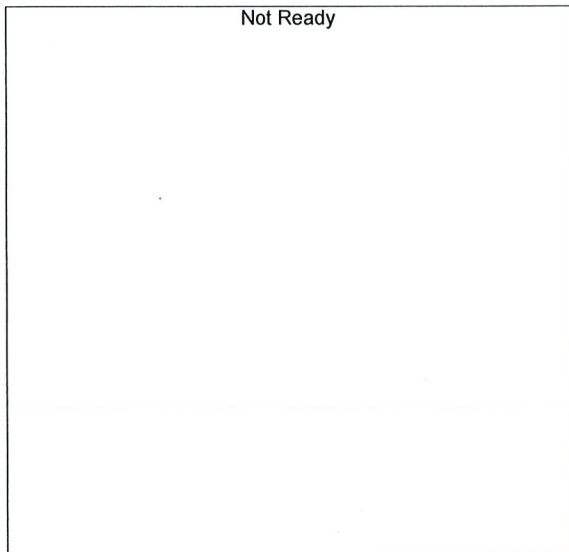R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name

Area Ratio
[*10^0]

Name : ETHANOL
Detector Name: FID2
Function : f(x)=2.03406*x-0.00843351
R^2 value= 0.9999541 ✓
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
1	0.050	17008	0.0513	0.050_8232022_001.gcd
2	0.100	34953	0.1001	0.100_8232022_002.gcd
3	0.200	71212	0.1985	0.200_8232022_003.gcd
4	0.300	107631	0.2990	0.300_8232022_004.gcd
5	0.500	181432	0.5010	0.500_8232022_005.gcd

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.	Data File Name

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
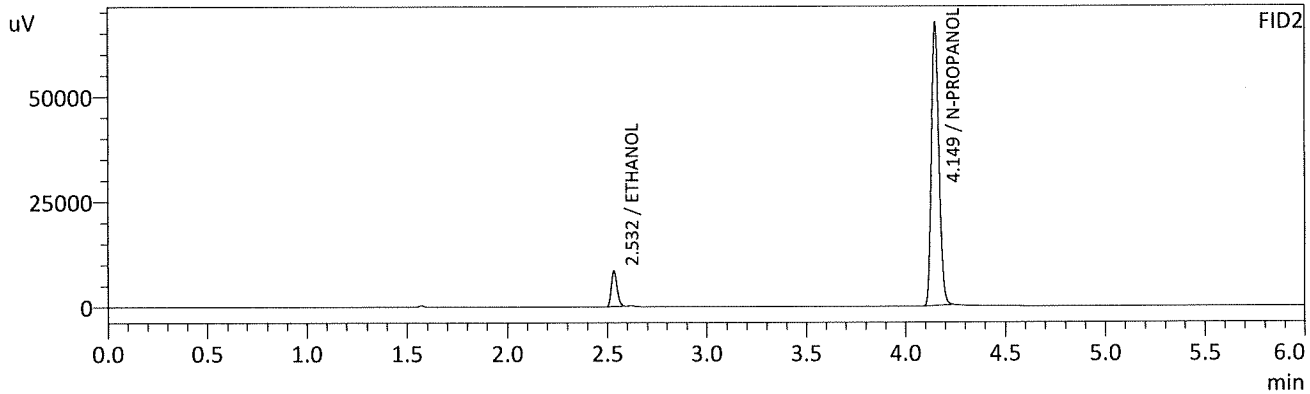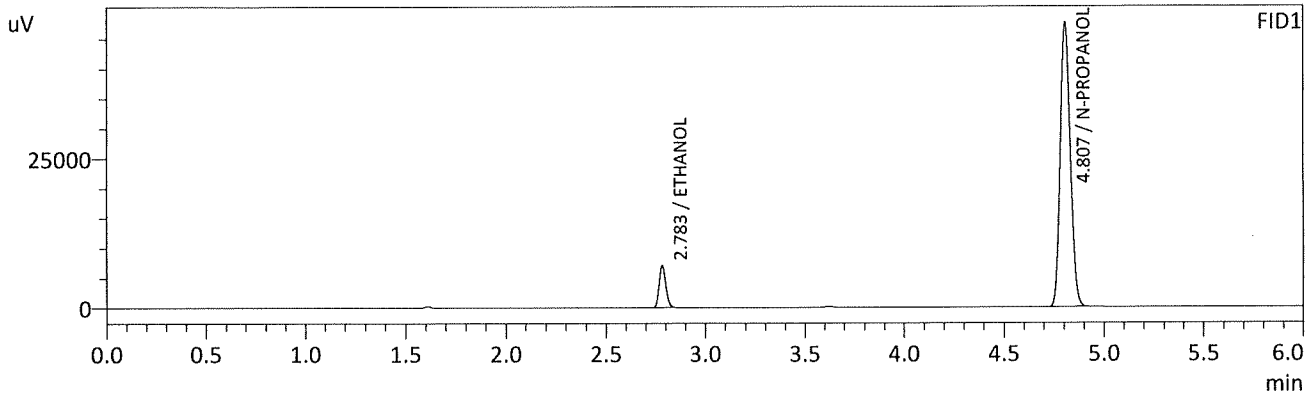R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name

Sample Name   : 0.050
Vial #   : 1
Data Filename   : 0.050_8232022_001.gcd
Method Filename   : ALCOHOL.gcm
Batch Filename   : 8-23-22 BATCH.gcb
Date Acquired   : 8/23/2022 10:25:15 AM
Date Processed   : 8/25/2022 8:36:41 AM
C:\LabSolutions\Data\2022\8-23-22 RC\ALCOHOL.gcm

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0504	g/100cc	16393	7012
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	166578	47325
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0513	g/100cc	17008	8493
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	177309	66718
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name   : 0.100
Vial #   : 2
Data Filename   : 0.100_8232022_002.gcd
Method Filename   : ALCOHOL.gcm
Batch Filename   : 8-23-22 BATCH.gcb
Date Acquired   : 8/23/2022 10:34:45 AM
Date Processed   : 8/25/2022 8:36:43 AM
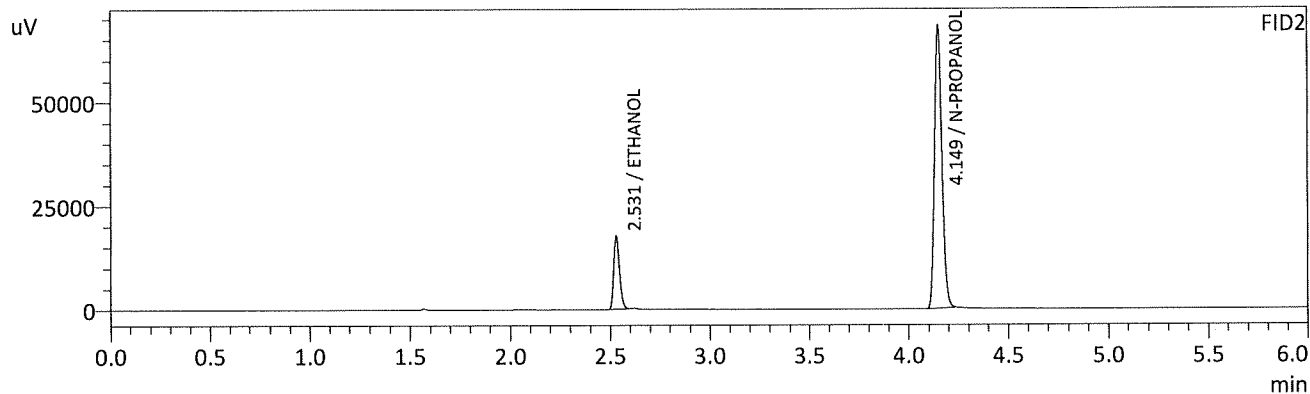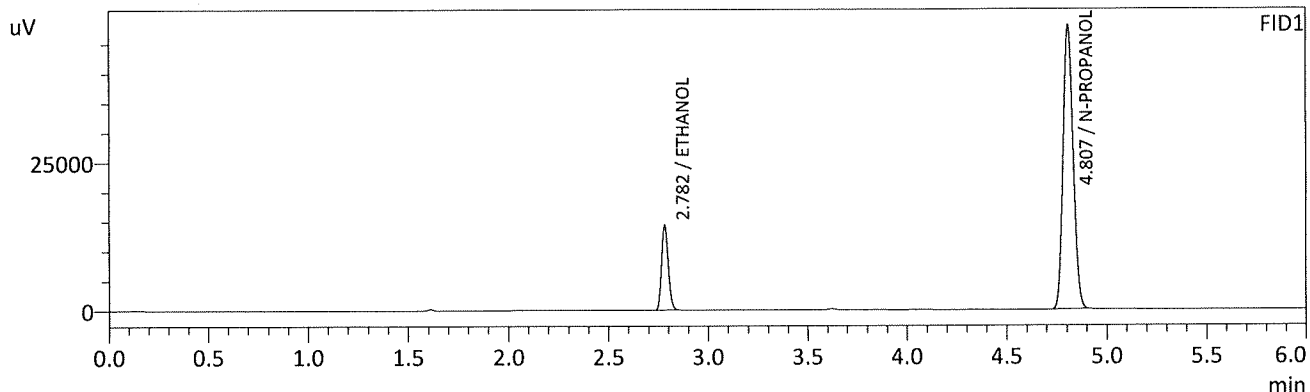C:\LabSolutions\Data\2022\8-23-22 RC\ALCOHOL.gcm

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.1001	g/100cc	33253	14139
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	167788	47778
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.1001	g/100cc	34953	17470
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	179039	67494
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name   : 0.200
Vial #   : 3
Data Filename   : 0.200_8232022_003.gcd
Method Filename   : ALCOHOL.gcm
Batch Filename   : 8-23-22 BATCH.gcb
Date Acquired   : 8/23/2022 10:44:06 AM
Date Processed   : 8/25/2022 8:36:44 AM
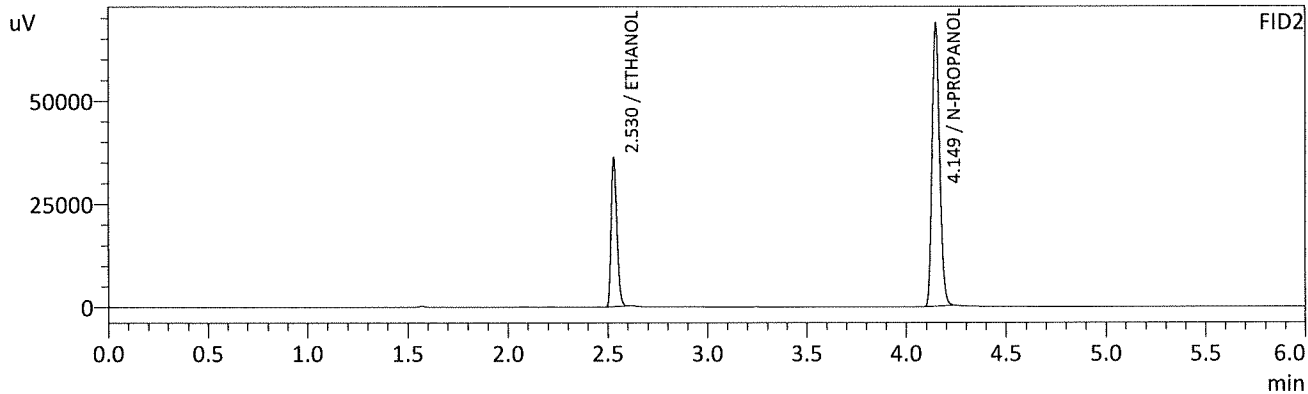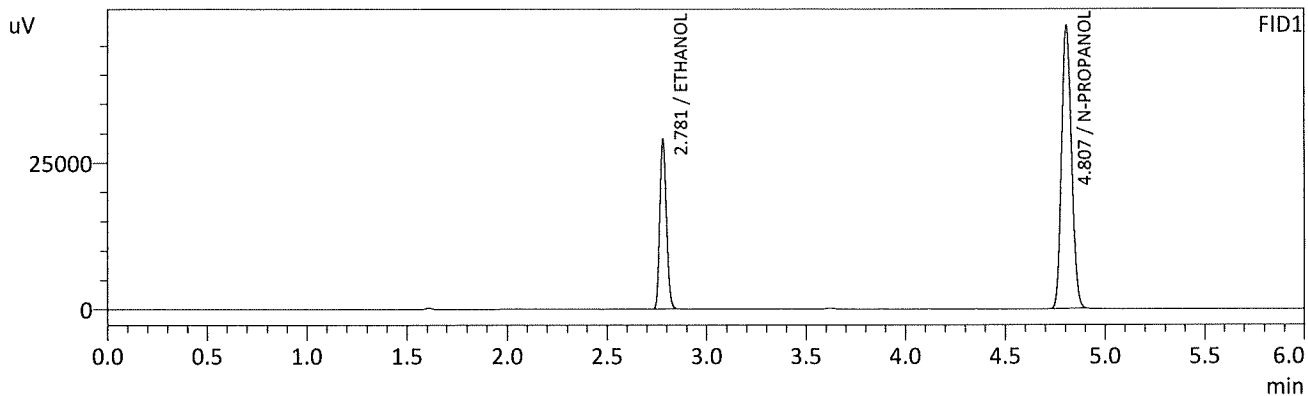C:\LabSolutions\Data\2022\8-23-22 RC\ALCOHOL.gcm

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.1992	g/100cc	67109	28826
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	168906	48129
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.1985	g/100cc	71212	35486
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	180106	68045
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name   : 0.300
Vial #   : 4
Data Filename   : 0.300_8232022_004.gcd
Method Filename   : ALCOHOL.gcm
Batch Filename   : 8-23-22 BATCH.gcb
Date Acquired   : 8/23/2022 10:53:50 AM
Date Processed   : 8/25/2022 8:36:45 AM
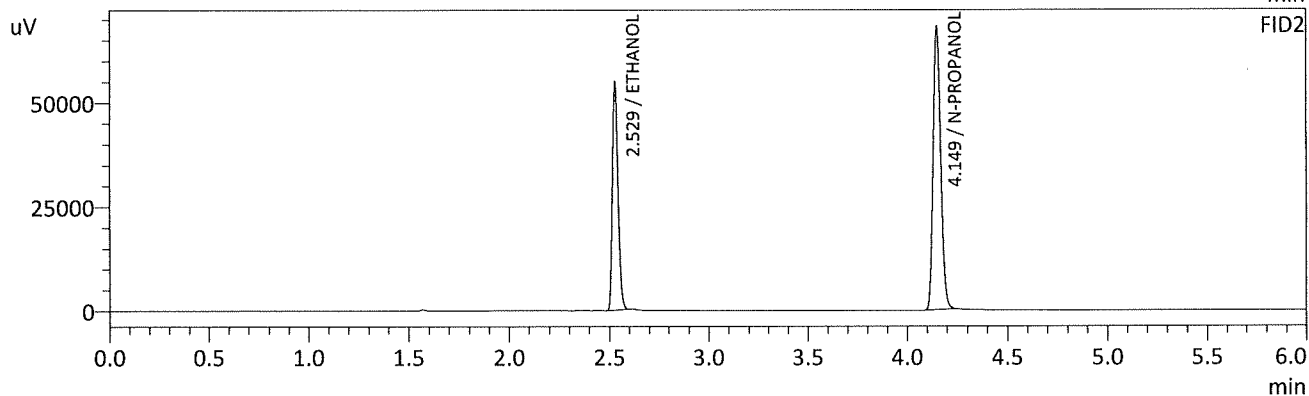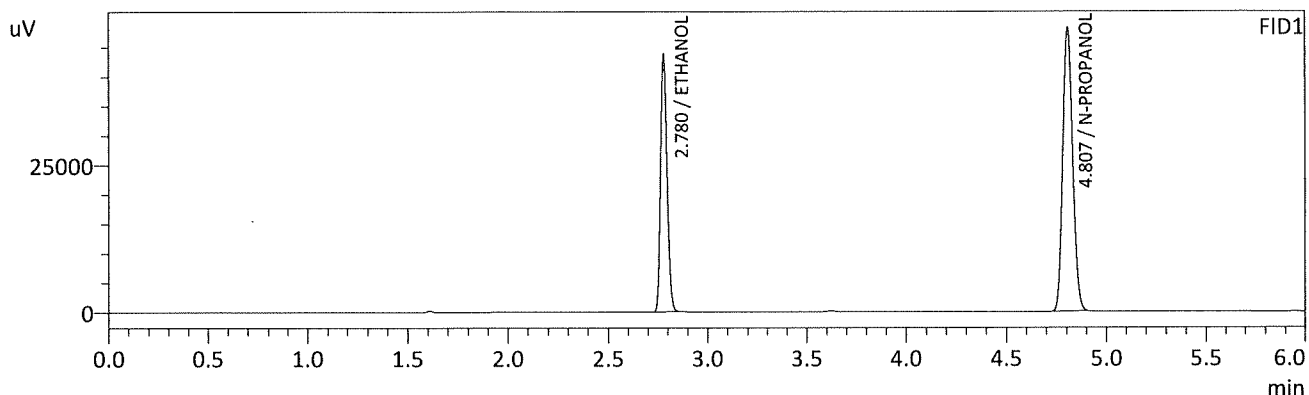C:\LabSolutions\Data\2022\8-23-22 RC\ALCOHOL.gcm

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2997	g/100cc	100946	43566
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	168534	47932
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2990	g/100cc	107631	54195
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	179445	67488
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name   : 0.500
Vial #   : 5
Data Filename   : 0.500_8232022_005.gcd
Method Filename   : ALCOHOL.gcm
Batch Filename   : 8-23-22 BATCH.gcb
Date Acquired   : 8/23/2022 11:03:22 AM
Date Processed   : 8/25/2022 8:36:46 AM
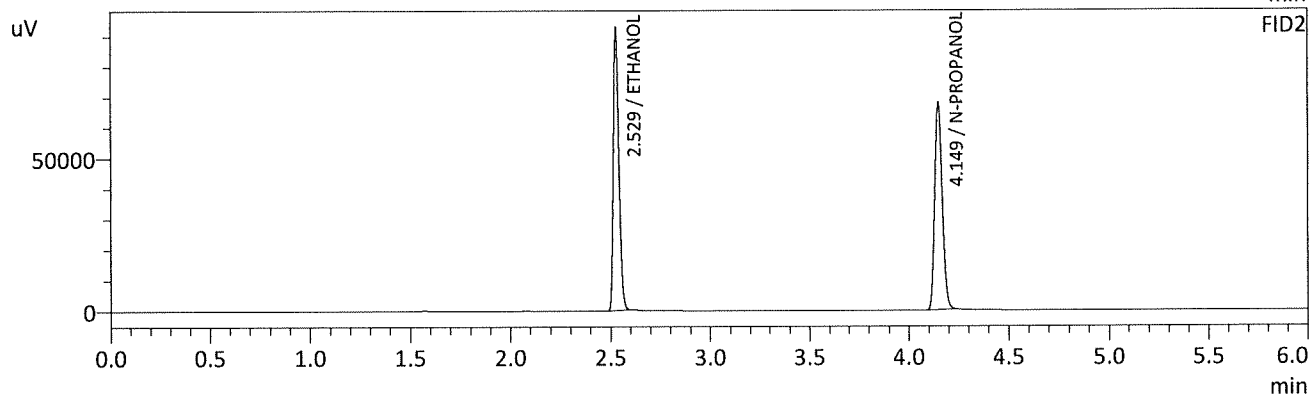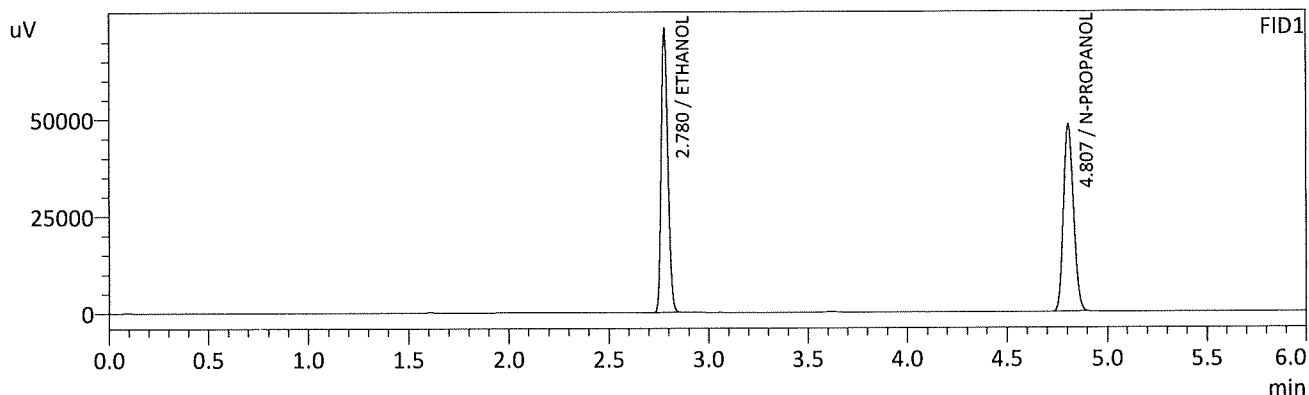C:\LabSolutions\Data\2022\8-23-22 RC\ALCOHOL.gcm

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.5003	g/100cc	169123	73215
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	168789	48045
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.5010	g/100cc	181432	91979
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	179516	67450
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name   : INT STD BLK 1
Vial #   : 6
Data Filename   : INT STD BLK 1_8232022_006.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 8-23-22 BATCH.gcb
Date Acquired   : 8/23/2022 11:12:39 AM
Date Processed : 8/23/2022 11:18:41 AM
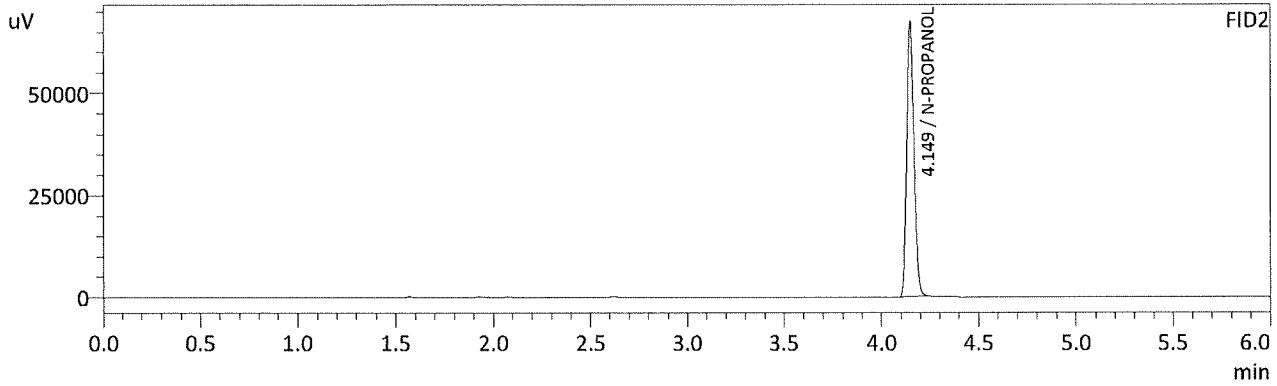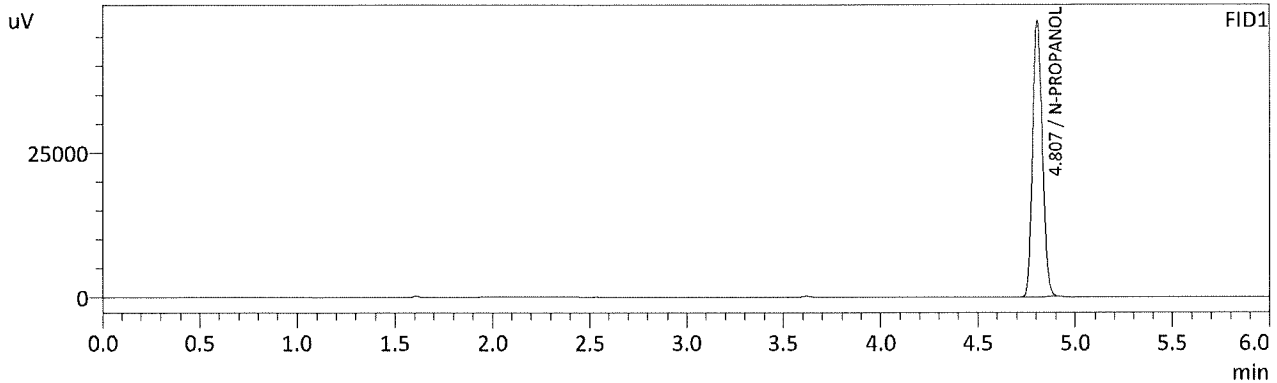C:\LabSolutions\Data\2022\8-23-22 RC\ALCOHOL.gcm

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	166846	47481
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	178232	67160
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name   : MULTI-COMP MIX
Vial #   : 7
Data Filename   : MULTI-COMP MIX_8232022_007.gcd
Method Filename : ALCOHOL.gcm
Batch Filename   : 8-23-22 BATCH.gcb
Date Acquired   : 8/23/2022 11:22:24 AM
Date Processed   : 8/23/2022 11:28:25 AM
C:\LabSolutions\Data\2022\8-23-22 RC\ALCOHOL.gcm
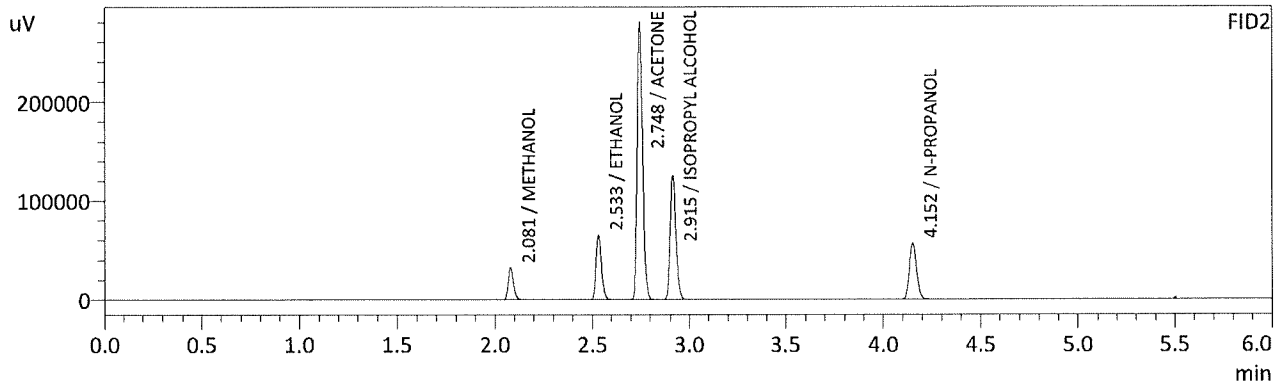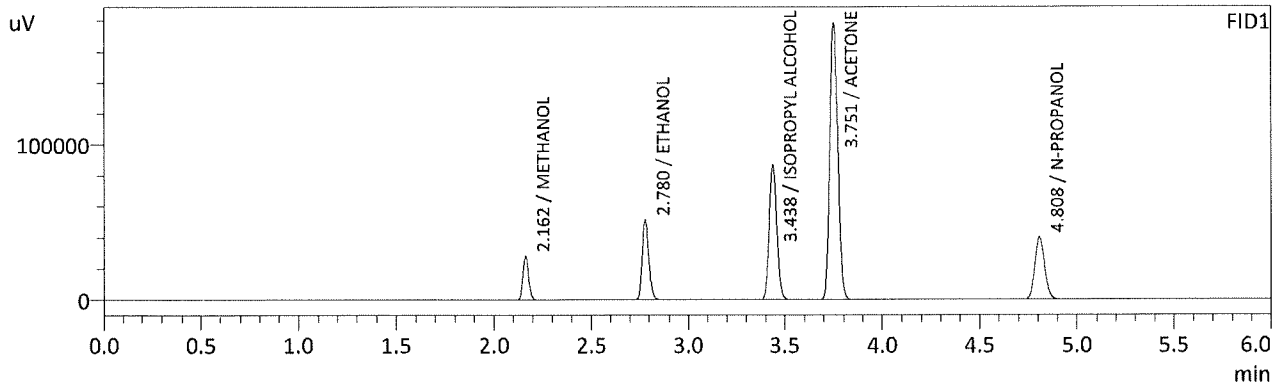
FID1

Name	Conc.	Unit	Area	Height
METHANOL	0.0000	g/100cc	56191	27822
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.4230	g/100cc	117363	51000
ISOPROPYL ALCOHOL	0.0000	g/100cc	238474	86511
ACETONE	0.0000	g/100cc	505209	177856
N-PROPANOL	0.0000	g/100cc	138625	39858
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	0.0000	g/100cc	59794	32016
ETHANOL	0.4244	g/100cc	126797	64664
ACETONE	0.0000	g/100cc	550810	276740
ISOPROPYL ALCOHOL	0.0000	g/100cc	258934	125199
N-PROPANOL	0.0000	g/100cc	148302	56644
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name : INT STD BLK 2
Vial # : 8
Data Filename : INT STD BLK 2_8232022_008.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 8-23-22 BATCH.gcb
Date Acquired : 8/23/2022 11:31:55 AM
Date Processed : 8/23/2022 11:37:56 AM
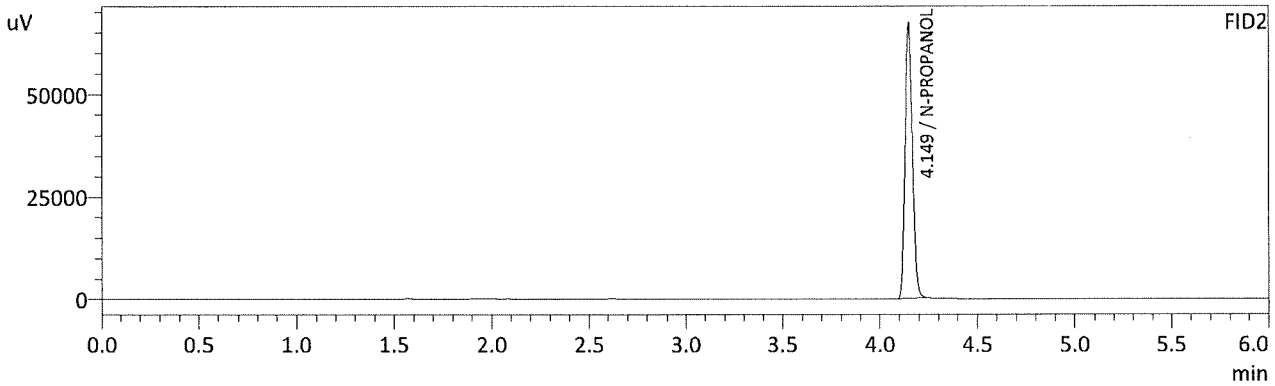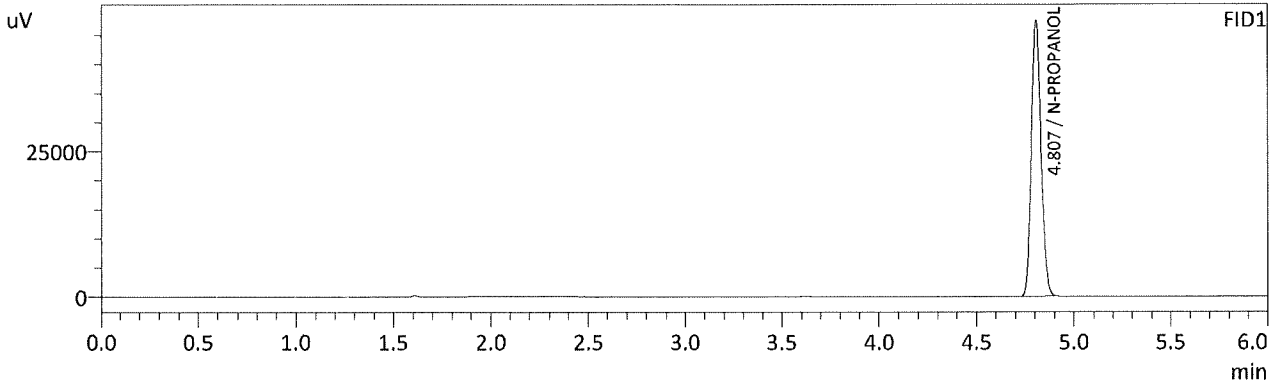C:\LabSolutions\Data\2022\8-23-22 RC\ALCOHOL.gcm

FID1

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	165560	47227
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	176742	66664
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC1-1   Item #   **Analysis Date(s):**   8/23/2022

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0739	0.0741	0.0002	0.0740		
(g/100cc)	0.0737	0.0740	0.0003	0.0738	0.0002	0.0739

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.
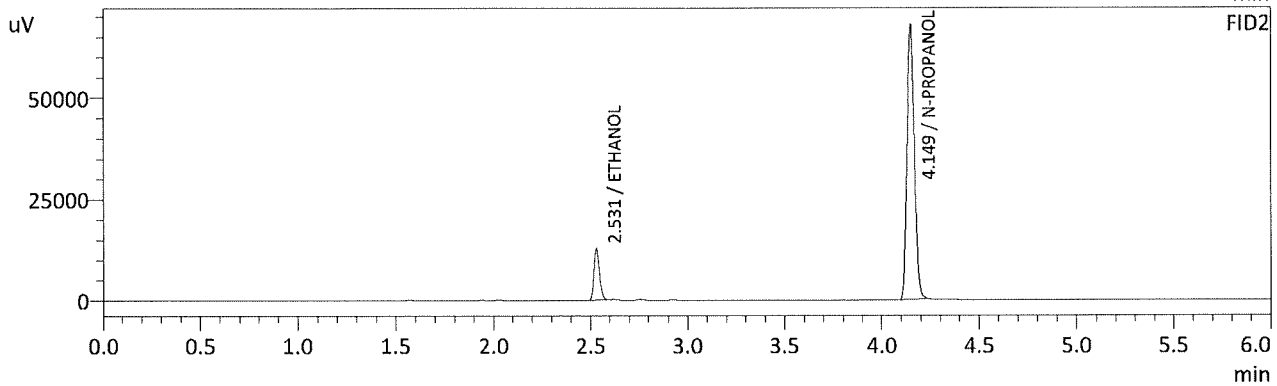
Revision: 1
Issue Date: 12/29/2021
Issuing Authority: Quality Manager

Sample Name : QC-1-1-A
Vial #   : 9
Data Filename : QC-1-1-A_8232022_009.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 8-23-22 BATCH.gcb
Date Acquired : 8/23/2022 11:41:12 AM
Date Processed : 8/23/2022 11:47:14 AM
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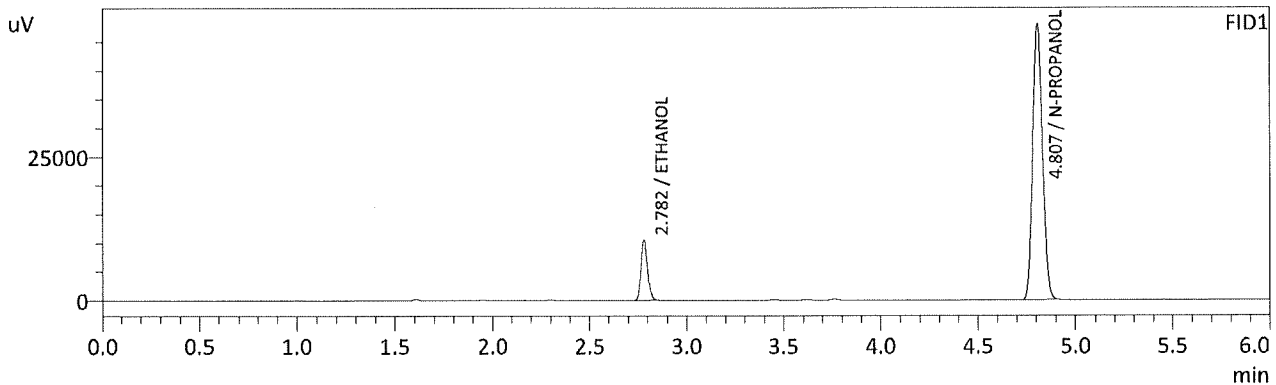
FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0739	g/100cc	24479	10433
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	168240	47888
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0741	g/100cc	25568	12797
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	179634	67436
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name   : QC-1-1-B
Vial #   : 10
Data Filename   : QC-1-1-B_8232022_010.gcd
Method Filename : ALCOHOL.gcm
Batch Filename   : 8-23-22 BATCH.gcb
Date Acquired   : 8/23/2022 11:50:57 AM
Date Processed   : 8/23/2022 11:56:59 AM
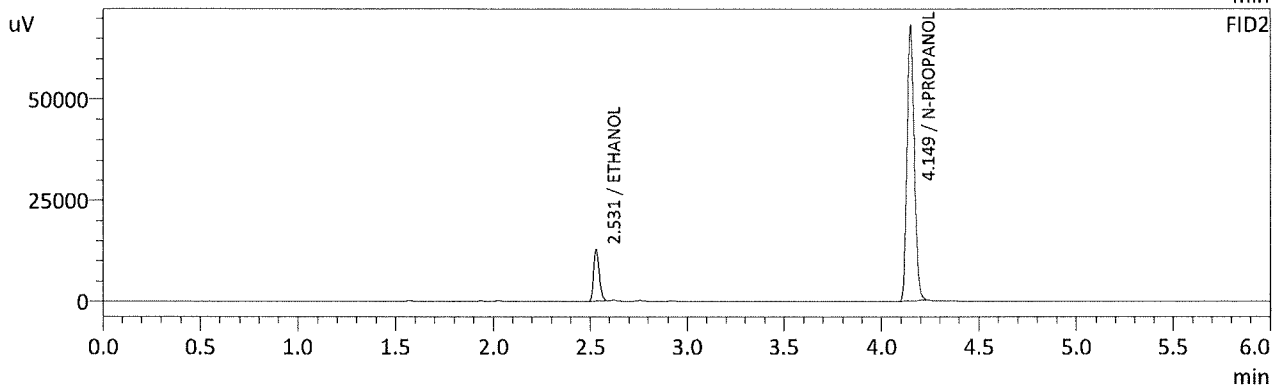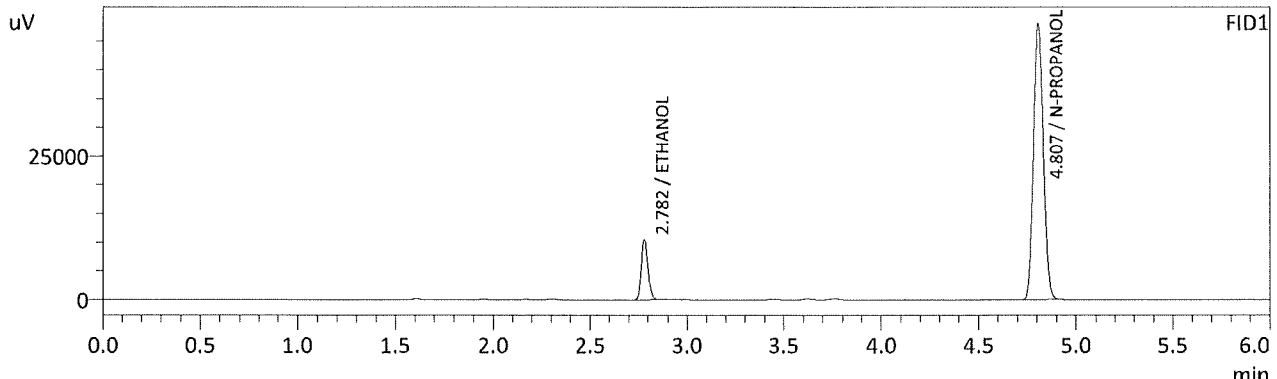C:\LabSolutions\Data\2022\8-23-22 RC\ALCOHOL.gcm

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0737	g/100cc	24430	10410
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	168176	47902
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0740	g/100cc	25533	12784
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	179569	67565
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: 0.080 QA   Item #   **Analysis Date(s):**   8/23/2022

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0811	0.0814	0.0003	0.0812	0.0003	0.0813
(g/100cc)	0.0814	0.0816	0.0002	0.0815		

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
0.081	0.076	0.086	0.005

	Reported Result	
	0.081	

Calibration and control data are stored centrally.
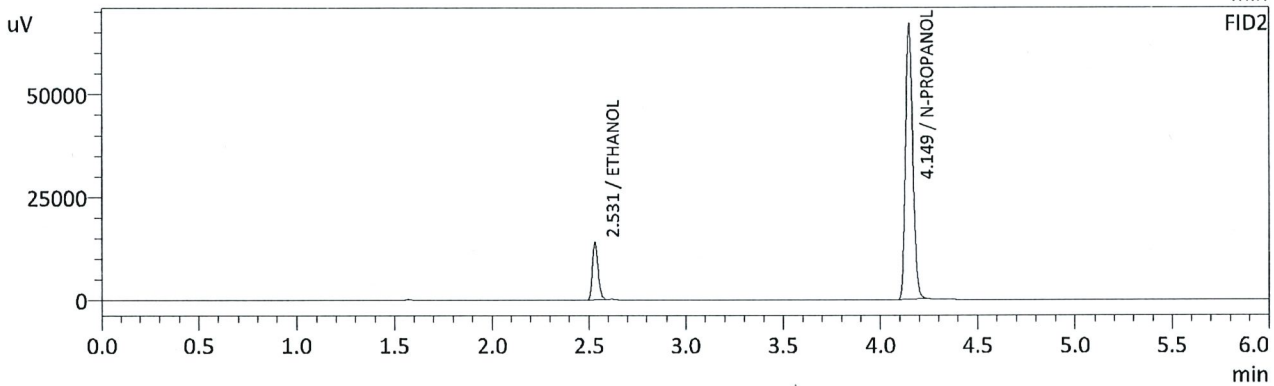
Revision: 1
Issue Date: 12/29/2021
Issuing Authority: Quality Manager

Sample Name   : 0.08 QA - A
Vial #   : 11
Data Filename   : 0.08 QA - A_8232022_011.gcd
Method Filename   : ALCOHOL.gcm
Batch Filename   : 8-23-22 BATCH.gcb
Date Acquired   : 8/23/2022 12:00:29 PM
Date Processed   : 8/23/2022 12:06:31 PM
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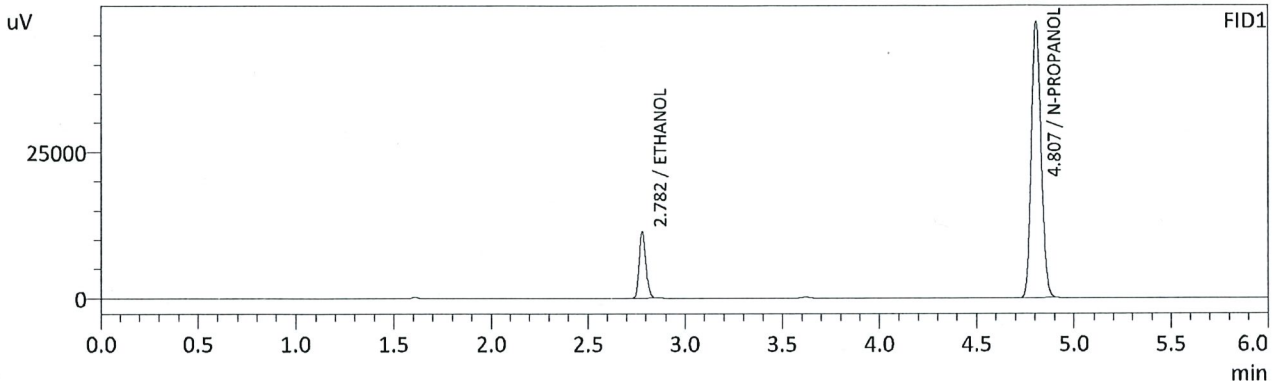
FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0811	g/100cc	26513	11266
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	165592	47093
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0814	g/100cc	27759	13877
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	176651	66405
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name   : 0.08 QA - B
Vial #   : 12
Data Filename   : 0.08 QA - B_8232022_012.gcd
Method Filename   : ALCOHOL.gcm
Batch Filename   : 8-23-22 BATCH.gcb
Date Acquired   : 8/23/2022 12:09:46 PM
Date Processed   : 8/23/2022 12:15:47 PM
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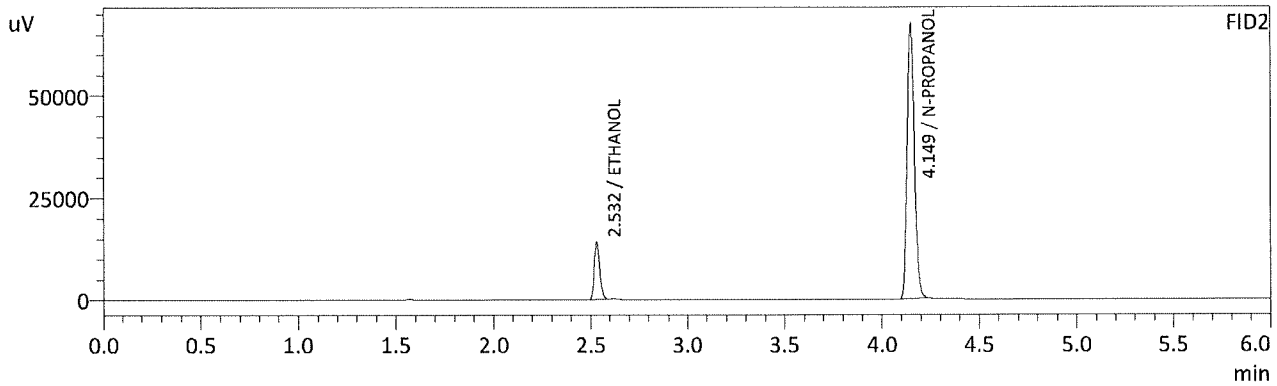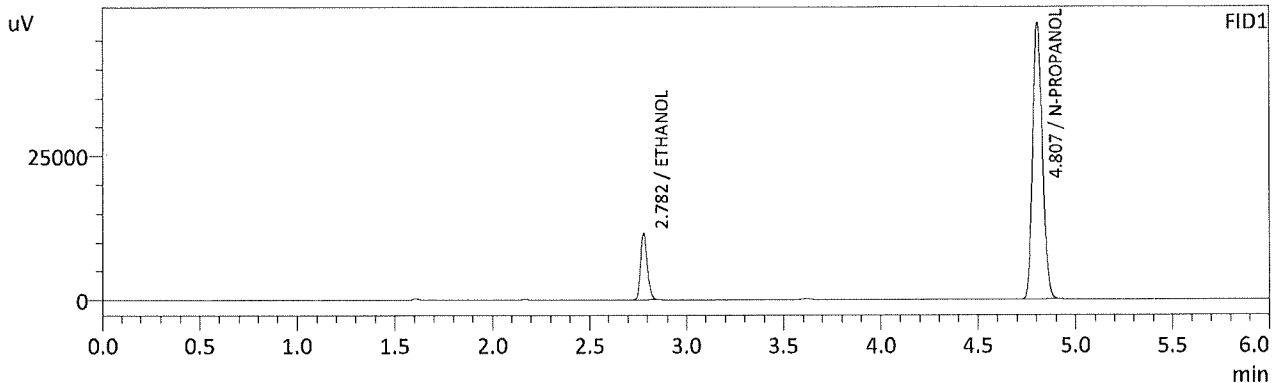

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0814	g/100cc	26859	11404
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	167139	47715
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0816	g/100cc	28127	14066
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	178319	67031
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC2-1   Item #   **Analysis Date(s):**   8/23/2022

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2100	0.2094	0.0006	0.2097		
(g/100cc)	0.2115	0.2110	0.0005	0.2112	0.0015	0.2104

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
0.210	0.199	0.221	0.011

	Reported Result	
	0.210	

Calibration and control data are stored centrally.

Sample Name   : QC-2-1-A
Vial #   : 31
Data Filename   : QC-2-1-A_8232022_031.gcd
Method Filename   : ALCOHOL.gcm
Batch Filename   : 8-23-22 BATCH.gcb
Date Acquired   : 8/23/2022 3:10:52 PM
Date Processed   : 8/23/2022 3:16:52 PM
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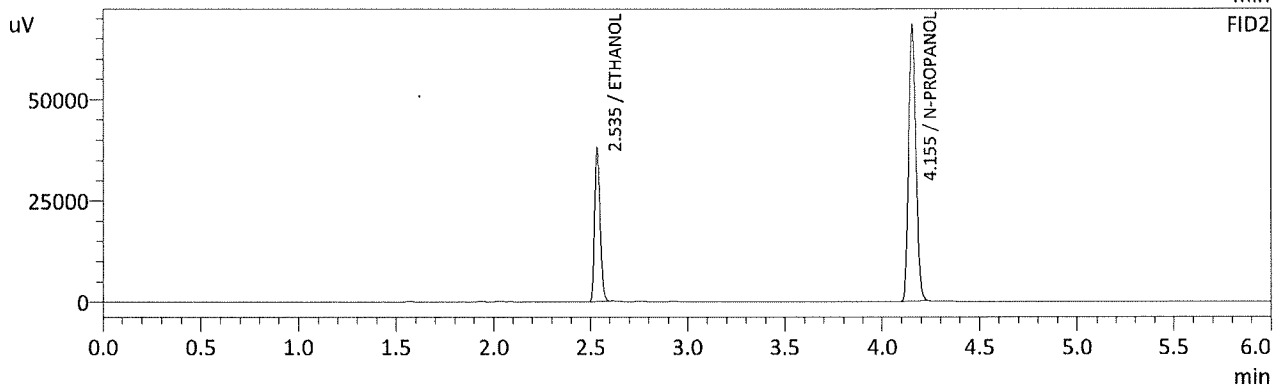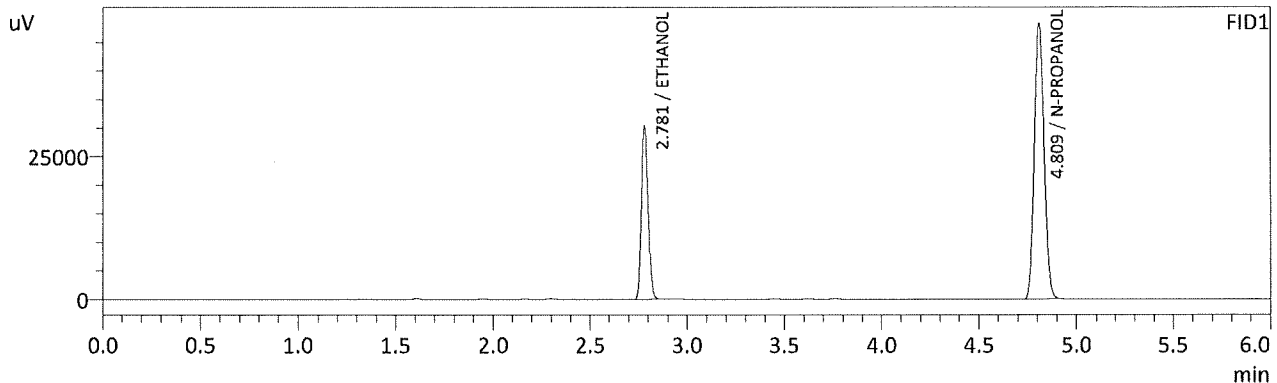
FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2100	g/100cc	70578	30014
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	168463	48194
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2094	g/100cc	75125	37397
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	179869	68062
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name   : QC-2-1-B
Vial #   : 32
Data Filename   : QC-2-1-B_8232022_032.gcd
Method Filename   : ALCOHOL.gcm
Batch Filename   : 8-23-22 BATCH.gcb
Date Acquired   : 8/23/2022 3:20:24 PM
Date Processed   : 8/23/2022 3:26:25 PM
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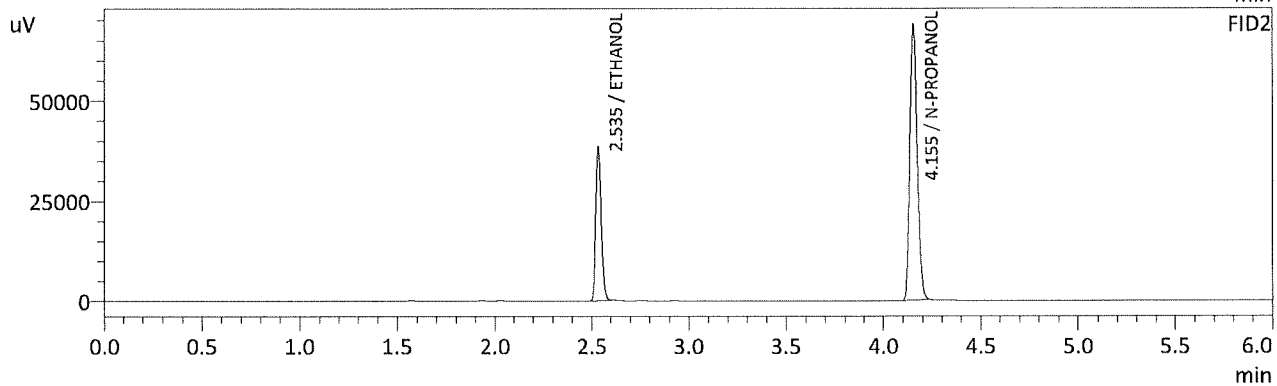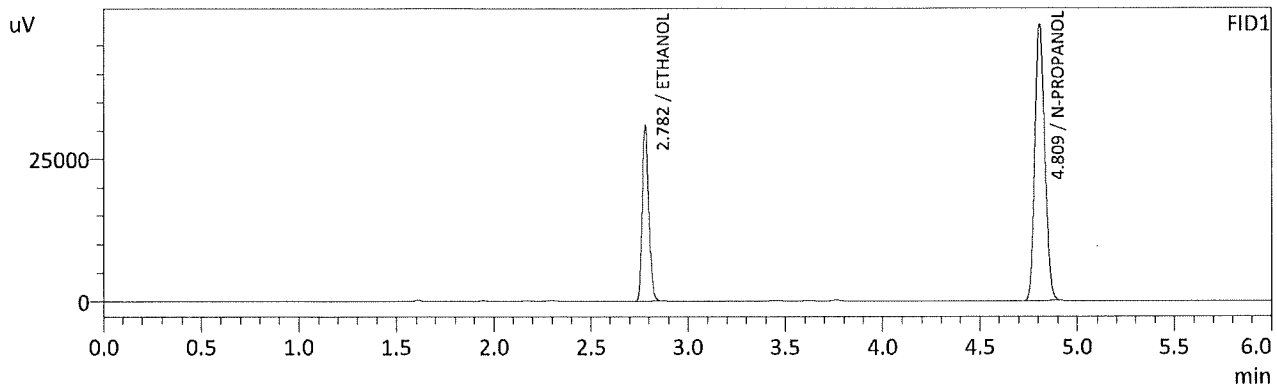

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2115	g/100cc	71823	30499
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	170233	48607
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2110	g/100cc	76422	38218
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	181584	68683
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC1-2   Item #   **Analysis Date(s):   8/23/2022**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0807	0.0808	0.0001	0.0807	0.0003	0.0805
(g/100cc)	0.0802	0.0806	0.0004	0.0804		

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.

Revision: 1
Issue Date: 12/29/2021
Issuing Authority: Quality Manager

Sample Name   : QC1-2-A
Vial #   : 53
Data Filename   : QC1-2-A_8232022_053.gcd
Method Filename   : ALCOHOL.gcm
Batch Filename   : 8-23-22 BATCH.gcb
Date Acquired   : 8/23/2022 6:40:17 PM
Date Processed   : 8/23/2022 6:46:19 PM
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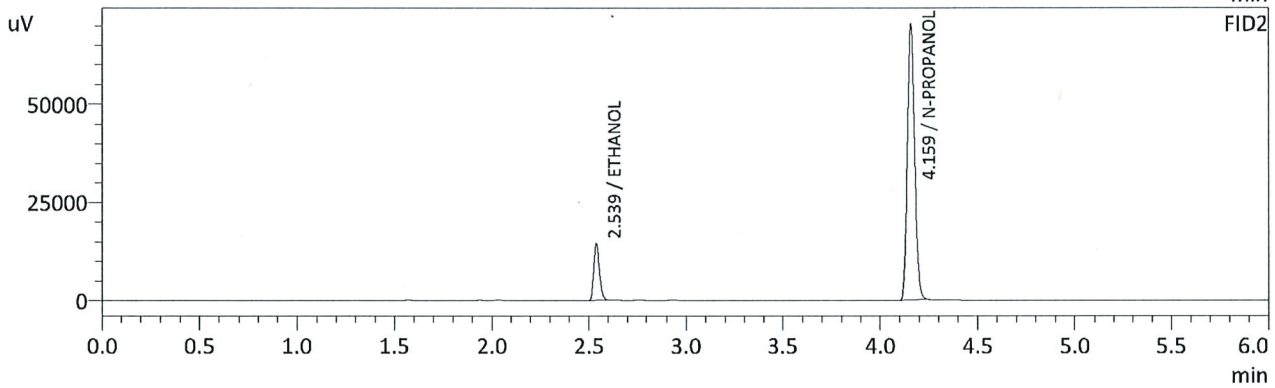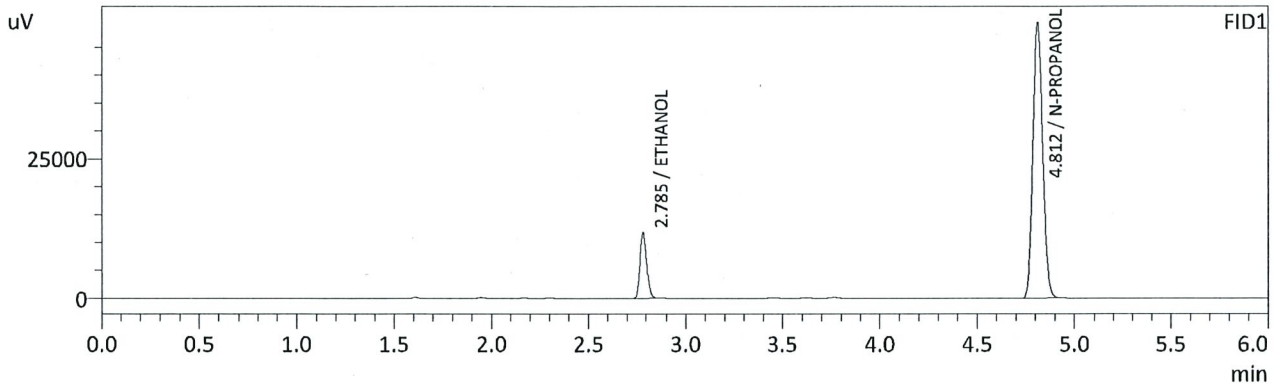
FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0807	g/100cc	27521	11732
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	172904	49129
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0808	g/100cc	28818	14239
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	184692	69713
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name   : QC1-2-B
Vial #   : 54
Data Filename   : QC1-2-B_8232022_054.gcd
Method Filename   : ALCOHOL.gcm
Batch Filename   : 8-23-22 BATCH.gcb
Date Acquired   : 8/23/2022 6:49:34 PM
Date Processed   : 8/23/2022 6:55:35 PM
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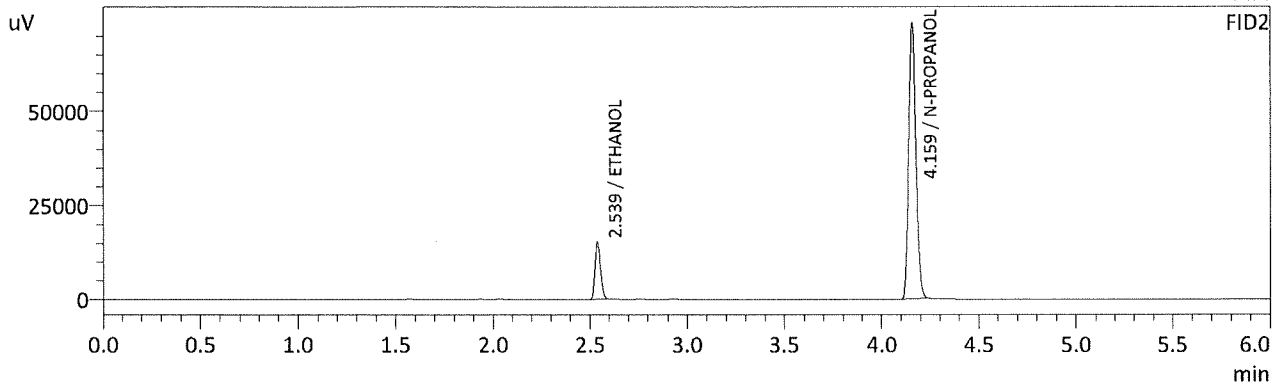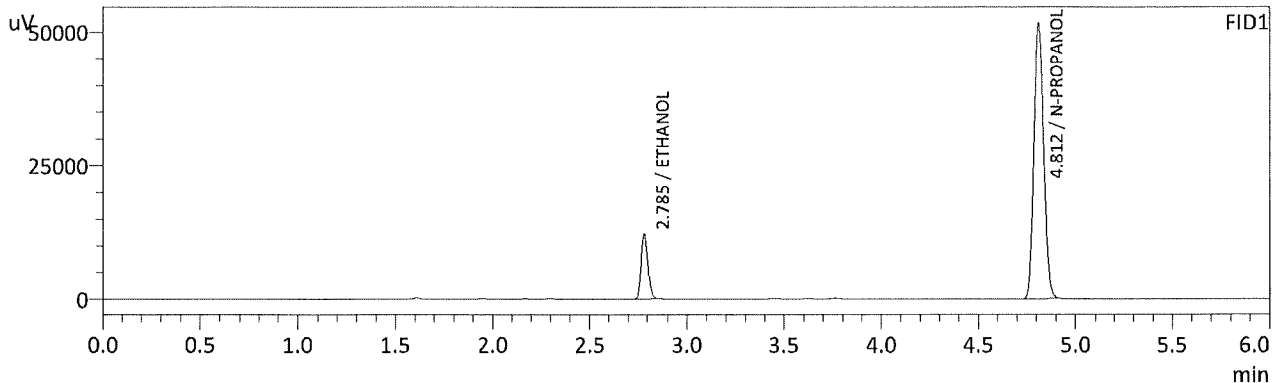

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0802	g/100cc	28539	12182
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	180303	51448
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0806	g/100cc	29968	14838
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	192657	72789
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC2-2 Item # **Analysis Date(s):** 8/23/2022

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2175	0.2170	0.0005	0.2172		
(g/100cc)	0.2194	0.2192	0.0002	0.2193	0.0021	0.2182

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
0.218	**0.207**	**0.229**	**0.011**

	Reported Result	
	0.218	

Calibration and control data are stored centrally.

Revision: 1
Issue Date: 12/29/2021
Issuing Authority: Quality Manager

Sample Name   : QC2-2-A
Vial #   : 65
Data Filename   : QC2-2-A_8232022_065.gcd
Method Filename : ALCOHOL.gcm
Batch Filename   : 8-23-22 BATCH.gcb
Date Acquired   : 8/23/2022 8:34:28 PM
Date Processed   : 8/23/2022 8:40:29 PM
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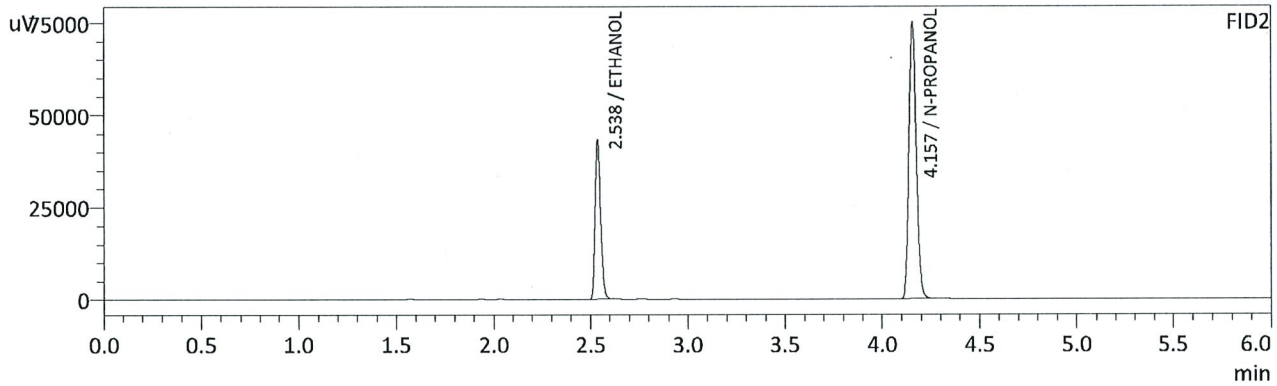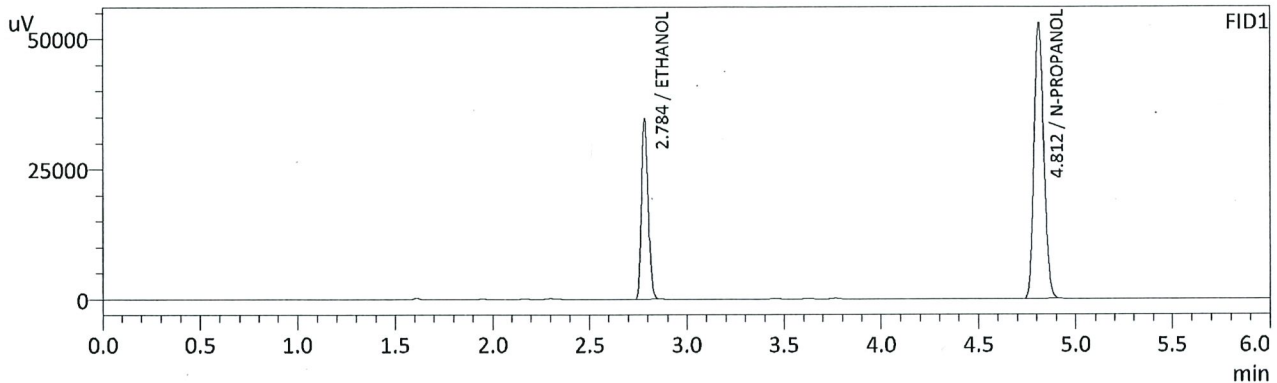
FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2175	g/100cc	80445	34581
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	185366	52758
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2170	g/100cc	85735	43179
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	197941	74654
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name   : QC2-2-B
Vial #   : 66
Data Filename   : QC2-2-B_8232022_066.gcd
Method Filename : ALCOHOL.gcm
Batch Filename   : 8-23-22 BATCH.gcb
Date Acquired   : 8/23/2022 8:43:43 PM
Date Processed   : 8/23/2022 8:49:46 PM
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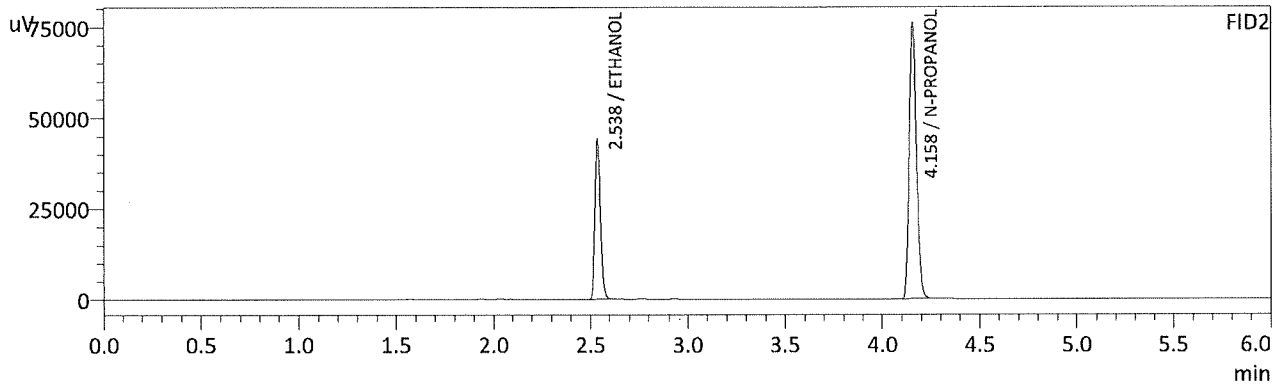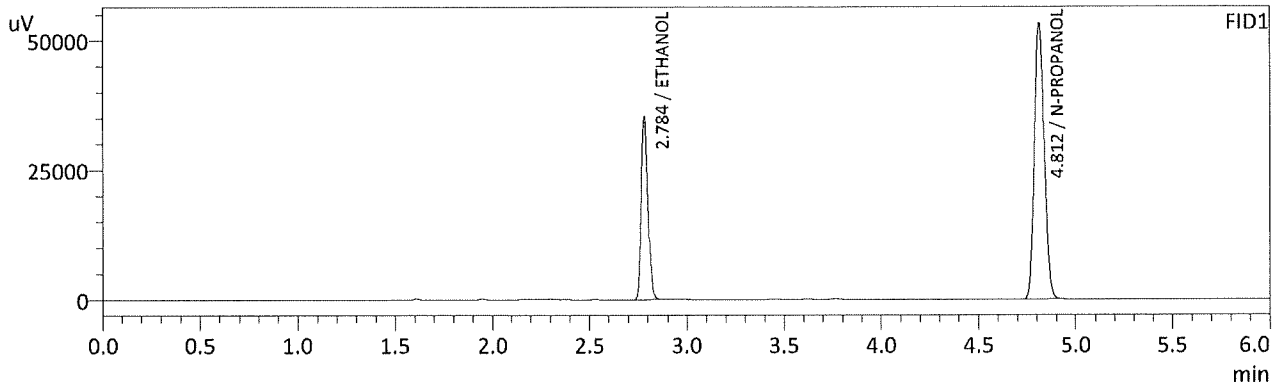
FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2194	g/100cc	81950	35208
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	187160	53123
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2192	g/100cc	87357	43988
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	199683	75409
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name   : INT STD BLK 3
Vial #   : 67
Data Filename   : INT STD BLK 3_8232022_067.gcd
Method Filename   : ALCOHOL.gcm
Batch Filename   : 8-23-22 BATCH.gcb
Date Acquired   : 8/23/2022 8:53:34 PM
Date Processed   : 8/23/2022 8:59:36 PM
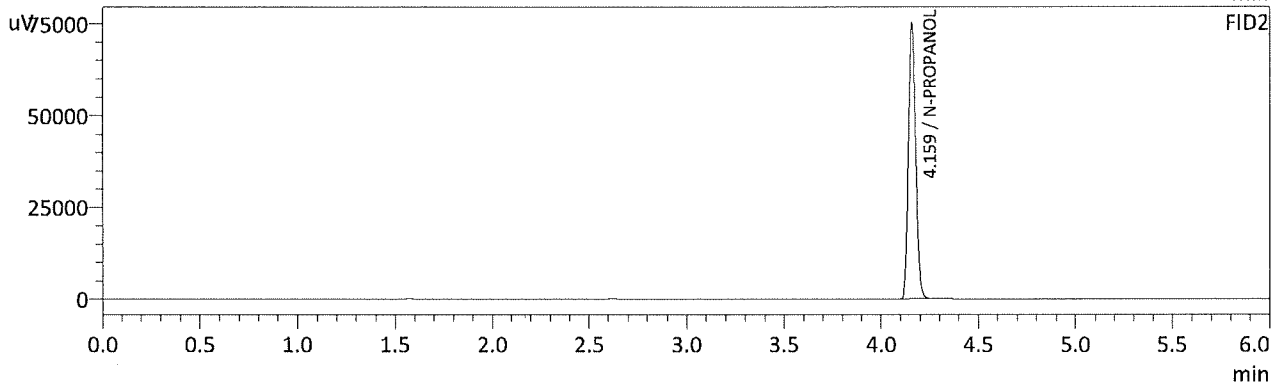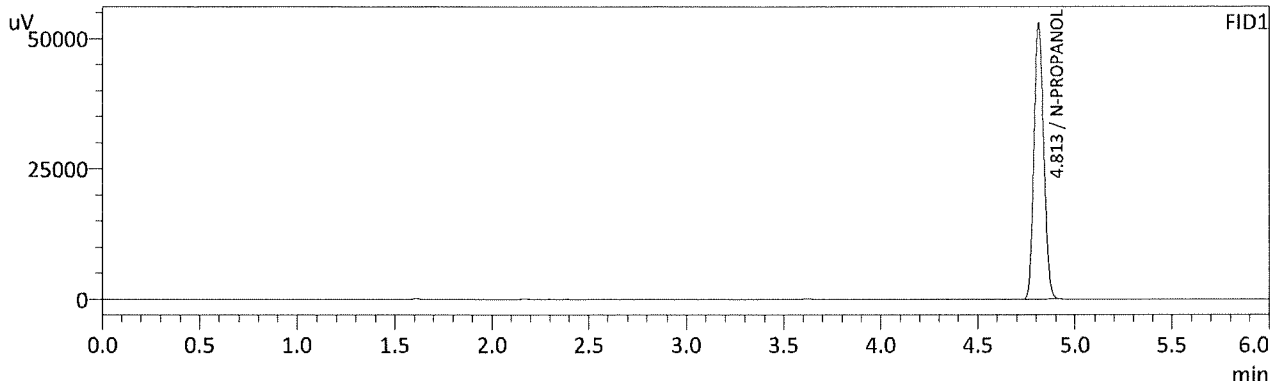C:\LabSolutions\Data\2022\8-23-22 RC\ALCOHOL.gcm

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	184514	52869
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	197250	74615
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

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:(R)	ALCOHOL.gcm	0.050_8192022_001.gcd	1
2	0.100	1:Standard:(R)	ALCOHOL.gcm	0.100_8192022_002.gcd	2
3	0.200	1:Standard:(R)	ALCOHOL.gcm	0.200_8192022_003.gcd	3
4	0.300	1:Standard:(R)	ALCOHOL.gcm	0.300_8192022_004.gcd	4
5	0.500	1:Standard:(R)	ALCOHOL.gcm	0.500_8192022_005.gcd	5
6	INT STD BLK 1	0:Unknown	ALCOHOL.gcm	INT STD BLK 1_8192022_006.gcd	0
7	MULTI-COMP MIX	0:Unknown	ALCOHOL.gcm	MULTI-COMP MIX_8192022_007.gcd	1
8	INT STD BLK 2	0:Unknown	ALCOHOL.gcm	INT STD BLK 2_8192022_008.gcd	0
9	QC-1-1-A	0:Unknown	ALCOHOL.gcm	QC-1-1-A_8192022_009.gcd	0
10	QC-1-1-B	0:Unknown	ALCOHOL.gcm	QC-1-1-B_8192022_010.gcd	0
11	0.08 QA - A	0:Unknown	ALCOHOL.gcm	0.08 QA - A_8192022_011.gcd	0
12	0.08 QA - B	0:Unknown	ALCOHOL.gcm	0.08 QA - B_8192022_012.gcd	0
13	P2022-2300-1-A	0:Unknown	ALCOHOL.gcm	P2022-2300-1-A_8192022_013.gcd	0
14	P2022-2300-1-B	0:Unknown	ALCOHOL.gcm	P2022-2300-1-B_8192022_014.gcd	0
15	P2022-2484-1-A	0:Unknown	ALCOHOL.gcm	P2022-2484-1-A_8192022_015.gcd	0
16	P2022-2484-1-B	0:Unknown	ALCOHOL.gcm	P2022-2484-1-B_8192022_016.gcd	0
17	P2022-2484-2-A	0:Unknown	ALCOHOL.gcm	P2022-2484-2-A_8192022_017.gcd	0
18	P2022-2484-2-B	0:Unknown	ALCOHOL.gcm	P2022-2484-2-B_8192022_018.gcd	0
19	P2022-2517-1-A	0:Unknown	ALCOHOL.gcm	P2022-2517-1-A_8192022_019.gcd	0
20	P2022-2517-1-B	0:Unknown	ALCOHOL.gcm	P2022-2517-1-B_8192022_020.gcd	0
21	P2022-2519-1-A	0:Unknown	ALCOHOL.gcm	P2022-2519-1-A_8192022_021.gcd	0
22	P2022-2519-1-B	0:Unknown	ALCOHOL.gcm	P2022-2519-1-B_8192022_022.gcd	0
23	P2022-2521-1-A	0:Unknown	ALCOHOL.gcm	P2022-2521-1-A_8192022_023.gcd	0
24	P2022-2521-1-B	0:Unknown	ALCOHOL.gcm	P2022-2521-1-B_8192022_024.gcd	0
25	P2022-2541-1-A	0:Unknown	ALCOHOL.gcm	P2022-2541-1-A_8192022_025.gcd	0
26	P2022-2541-1-B	0:Unknown	ALCOHOL.gcm	P2022-2541-1-B_8192022_026.gcd	0
27	P2022-2542-1-A	0:Unknown	ALCOHOL.gcm	P2022-2542-1-A_8192022_027.gcd	0
28	P2022-2542-1-B	0:Unknown	ALCOHOL.gcm	P2022-2542-1-B_8192022_028.gcd	0
29	P2022-2543-1-A	0:Unknown	ALCOHOL.gcm	P2022-2543-1-A_8192022_029.gcd	0
30	P2022-2543-1-B	0:Unknown	ALCOHOL.gcm	P2022-2543-1-B_8192022_030.gcd	0
31	QC-2-1-A	0:Unknown	ALCOHOL.gcm	QC-2-1-A_8192022_031.gcd	0
32	QC-2-1-B	0:Unknown	ALCOHOL.gcm	QC-2-1-B_8192022_032.gcd	0
33	P2022-2544-1-A	0:Unknown	ALCOHOL.gcm	P2022-2544-1-A_8192022_033.gcd	0
34	P2022-2544-1-B	0:Unknown	ALCOHOL.gcm	P2022-2544-1-B_8192022_034.gcd	0
35	P2022-2545-1-A	0:Unknown	ALCOHOL.gcm	P2022-2545-1-A_8192022_035.gcd	0
36	P2022-2545-1-B	0:Unknown	ALCOHOL.gcm	P2022-2545-1-B_8192022_036.gcd	0
37	P2022-2576-1-A	0:Unknown	ALCOHOL.gcm	P2022-2576-1-A_8192022_037.gcd	0
38	P2022-2576-1-B	0:Unknown	ALCOHOL.gcm	P2022-2576-1-B_8192022_038.gcd	0
39	P2022-2580-1-A	0:Unknown	ALCOHOL.gcm	P2022-2580-1-A_8192022_039.gcd	0
40	P2022-2580-1-B	0:Unknown	ALCOHOL.gcm	P2022-2580-1-B_8192022_040.gcd	0
41	P2022-2582-1-A	0:Unknown	ALCOHOL.gcm	P2022-2582-1-A_8192022_041.gcd	0
42	P2022-2582-1-B	0:Unknown	ALCOHOL.gcm	P2022-2582-1-B_8192022_042.gcd	0
43	P2022-2588-1-A	0:Unknown	ALCOHOL.gcm	P2022-2588-1-A_8192022_043.gcd	0
44	P2022-2588-1-B	0:Unknown	ALCOHOL.gcm	P2022-2588-1-B_8192022_044.gcd	0
45	P2022-2588-2-A	0:Unknown	ALCOHOL.gcm	P2022-2588-2-A_8192022_045.gcd	0
46	P2022-2588-2-B	0:Unknown	ALCOHOL.gcm	P2022-2588-2-B_8192022_046.gcd	0
47	P2022-2603-1-A	0:Unknown	ALCOHOL.gcm	P2022-2603-1-A_8192022_047.gcd	0
48	P2022-2603-1-B	0:Unknown	ALCOHOL.gcm	P2022-2603-1-B_8192022_048.gcd	0
49	P2022-2604-1-A	0:Unknown	ALCOHOL.gcm	P2022-2604-1-A_8192022_049.gcd	0
50	P2022-2604-1-B	0:Unknown	ALCOHOL.gcm	P2022-2604-1-B_8192022_050.gcd	0
51	P2022-2387-1-A	0:Unknown	ALCOHOL.gcm	P2022-2387-1-A_8192022_051.gcd	0
52	P2022-2387-1-B	0:Unknown	ALCOHOL.gcm	P2022-2387-1-B_8192022_052.gcd	0

Vial#	Sample Name	Sample Type	Method File	Data File	Level#
53	QC1-2-A	0:Unknown	ALCOHOL.gcm	QC1-2-A_8192022_053.gcd	0
54	QC1-2-B	0:Unknown	ALCOHOL.gcm	QC1-2-B_8192022_054.gcd	0
55	P2022-2384-1-A	0:Unknown	ALCOHOL.gcm	P2022-2384-1-A_8192022_055.gcd	0
56	P2022-2384-1-B	0:Unknown	ALCOHOL.gcm	P2022-2384-1-B_8192022_056.gcd	0
57	P2022-2613-1-A	0:Unknown	ALCOHOL.gcm	P2022-2613-1-A_8192022_057.gcd	0
58	P2022-2613-1-B	0:Unknown	ALCOHOL.gcm	P2022-2613-1-B_8192022_058.gcd	0
59	P2022-2614-1-A	0:Unknown	ALCOHOL.gcm	P2022-2614-1-A_8192022_059.gcd	0
60	P2022-2614-1-B	0:Unknown	ALCOHOL.gcm	P2022-2614-1-B_8192022_060.gcd	0
61	P2022-2625-1-A	0:Unknown	ALCOHOL.gcm	P2022-2625-1-A_8192022_061.gcd	0
62	P2022-2625-1-B	0:Unknown	ALCOHOL.gcm	P2022-2625-1-B_8192022_062.gcd	0
63	P2022-2630-1-A	0:Unknown	ALCOHOL.gcm	P2022-2630-1-A_8192022_063.gcd	0
64	P2022-2630-1-B	0:Unknown	ALCOHOL.gcm	P2022-2630-1-B_8192022_064.gcd	0
65	QC2-2-A	0:Unknown	ALCOHOL.gcm	QC2-2-A_8192022_065.gcd	0
66	QC2-2-B	0:Unknown	ALCOHOL.gcm	QC2-2-B_8192022_066.gcd	0
67	INT STD BLK 3	0:Unknown	ALCOHOL.gcm	INT STD BLK 3_8192022_067.gcd	0