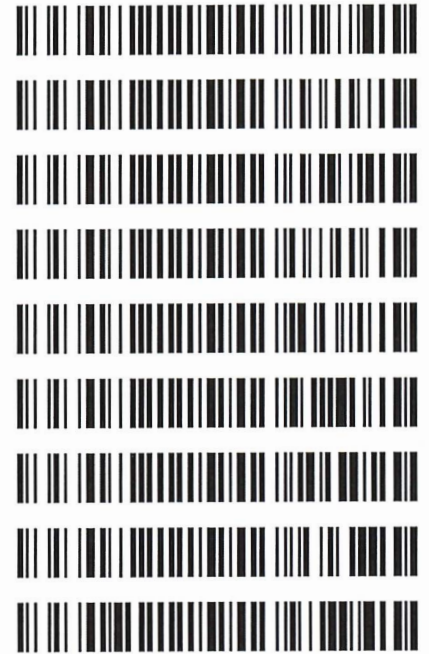


Worklist: 5989

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>
C2022-1090	1	BCK	Alcohol Analysis
C2022-1094	1	BCK	Alcohol Analysis
C2022-1102	1	BCK	Alcohol Analysis
C2022-1117	1	BCK	Alcohol Analysis
C2022-1179	1	BCK	Alcohol Analysis
C2022-1185	1	BCK	Alcohol Analysis
C2022-1206	1	BCK	Alcohol Analysis
C2022-1223	1	BCK	Alcohol Analysis
M2022-2071	1	UCK	Alcohol Analysis



99

Region 1 CDA Blood Alcohol Analysis Batch Table

Shimadzu GC-2030 Serial #C12255850700
 Shimadzu HS-20 Serial #C12595700181
 Lab Solutions Software Ver. 5.99
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Vial#	Sample Name	Sample Type	Level#	Method File
1	INT STD BLK 1	0:Unknown	0	ALCOHOL.GCM
2	0.050	1:Standard:(R)	1	ALCOHOL.GCM
3	0.100	1:Standard:(R)	2	ALCOHOL.GCM
4	0.200	1:Standard:(R)	3	ALCOHOL.GCM
5	0.300	1:Standard:(R)	4	ALCOHOL.GCM
6	0.500	1:Standard:(R)	5	ALCOHOL.GCM
7	INT STD BLK 2	0:Unknown	0	ALCOHOL.GCM
8	MULTI-COMP MIX	1:Standard:(R)	6	ALCOHOL.GCM
9	INT STD BLK 3	0:Unknown	0	ALCOHOL.GCM
10	QC-1-1-A	0:Unknown	0	ALCOHOL.GCM
11	QC-1-1-B	0:Unknown	0	ALCOHOL.GCM
12	0.08 QA - A	0:Unknown	0	ALCOHOL.GCM
13	0.08 QA - B	0:Unknown	0	ALCOHOL.GCM
14	C2022-1090-1-A	0:Unknown	0	ALCOHOL.GCM
15	C2022-1090-1-B	0:Unknown	0	ALCOHOL.GCM
16	C2022-1094-1-A	0:Unknown	0	ALCOHOL.GCM
17	C2022-1094-1-B	0:Unknown	0	ALCOHOL.GCM
18	C2022-1102-1-A	0:Unknown	0	ALCOHOL.GCM
19	C2022-1102-1-B	0:Unknown	0	ALCOHOL.GCM
20	C2022-1117-1-A	0:Unknown	0	ALCOHOL.GCM
21	C2022-1117-1-B	0:Unknown	0	ALCOHOL.GCM
22	C2022-1179-1-A	0:Unknown	0	ALCOHOL.GCM
23	C2022-1179-1-B	0:Unknown	0	ALCOHOL.GCM
24	C2022-1185-1-A	0:Unknown	0	ALCOHOL.GCM
25	C2022-1185-1-B	0:Unknown	0	ALCOHOL.GCM
26	C2022-1206-1-A	0:Unknown	0	ALCOHOL.GCM
27	C2022-1206-1-B	0:Unknown	0	ALCOHOL.GCM
28	C2022-1223-1-A	0:Unknown	0	ALCOHOL.GCM
29	C2022-1223-1-B	0:Unknown	0	ALCOHOL.GCM
30	M2022-2071-1-A	0:Unknown	0	ALCOHOL.GCM
31	M2022-2071-1-B	0:Unknown	0	ALCOHOL.GCM
32	QC-2-1-A	0:Unknown	0	ALCOHOL.GCM
33	QC-2-1-B	0:Unknown	0	ALCOHOL.GCM
34	INT STD BLK 4	0:Unknown	0	ALCOHOL.GCM

Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles*Analytical Method(s): 1.0**Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number: ML600HC11379***Volatiles Quality Assurance Controls****Run Date(s):****6-7-2022****Calibration Date: (if different)****Worklist #:****5989**

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results	
Level 1	Jul-23	19070006	0.0764	0.0688-0.0840	0.0710 g/100cc	
					g/100cc	
					g/100cc	
Level 2	Jul-23	19070007	0.2170	0.1953-0.2387	0.2107 g/100cc	
					g/100cc	
					g/100cc	
Multi-Component mixture:		Exp:	22-Jul	Lot #	FN07101701	OK
Curve Fit:			Column 1	0.99966	Column2	0.99960

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0459	0.0455	0.0004	0.0457
100	0.100	0.090 - 0.110	0.1016	0.1004	0.0012	0.101
200	0.200	0.180 - 0.220	0.1959	0.1944	0.0015	0.1951
300	0.300	0.270 - 0.330	0.2960	0.2955	0.0005	0.2957
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5041	0.5052	0.0011	0.5046
Internal Standard	Average	(-) 20%	(+) 20%			
N-Propanol:	240345.5	192276.4	288414.6			

Aqueous Controls

Control level	Target Value	Acceptable Range	Overall Results
80	0.080	0.076 - 0.084	0.077 g/100cc

80

Internal Standard Monitoring Worksheet

Worklist #:	5989	Run Date(s):	6-7-2022
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Internal Standard Solution: Lot# A014463901	Prep Date: 4/28/22	Exp Date: 10/28/22
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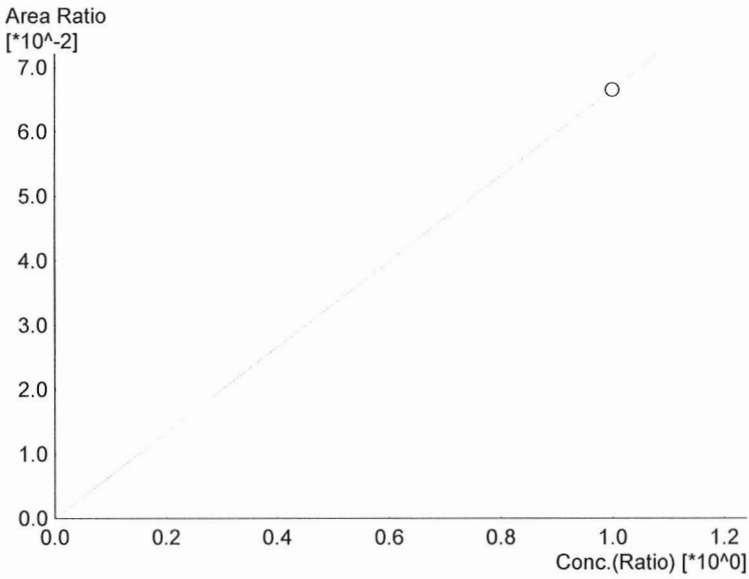
Sample Name	Column 1 Value	Column 2 Value	Average
0.080	221220	241795	231507.5
0.080	216484	237514	226999
QC1	222092	243710	232901
QC1	221926	243373	232649.5
QC1			#DIV/0!
QC1			#DIV/0!
QC1			#DIV/0!
QC1			#DIV/0!
QC2	248432	275503	261967.5
QC2	242852	269245	256048.5
QC2			#DIV/0!
QC2			#DIV/0!
QC2			#DIV/0!
QC2			#DIV/0!

Combined Average	(-)20%	(+)20%
240345.5	192276.4	288414.6

Calibration Table

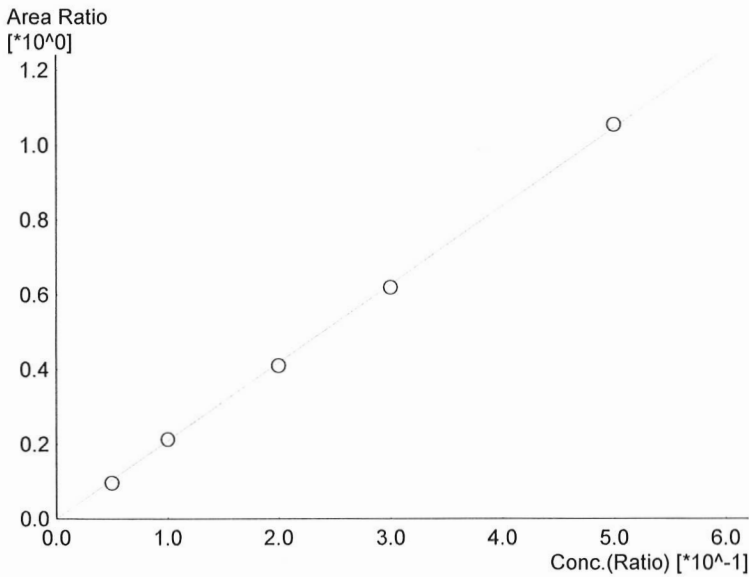
Laboratory : Coeur d' Alene
 Instrument Name : Nexis GC2030
 Instrument Serial # : C12255850700 / C12595700181

<<Data File>>
 Method File :C:\LabSolutions\Data\6-7-22\ALCOHOL.GCM
 Batch File :C:\LabSolutions\Data\6-7-22\6-7-22.gcb
 Date Acquired :6/7/2022 10:42:33 AM
 Date Created :6/7/2022 10:39:22 AM
 Date Modified :6/8/2022 2:41:37 PM



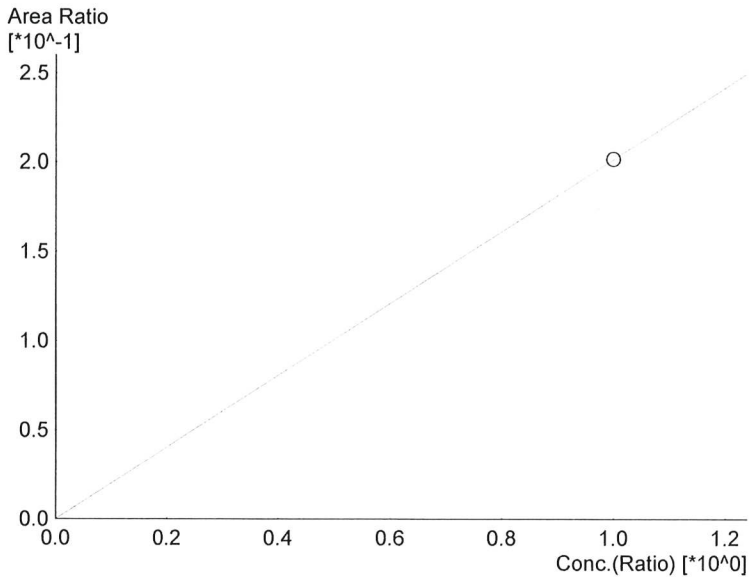
Name : Methanol
 Detector Name: FID1
 Function : $f(x)=0.0664900*x+0$
 R² value= 1.000000
 FitType: Linear
 ZeroThrough: Through

#	Conc.	Area	Std. Conc.
6	1.000	15435	1.0000



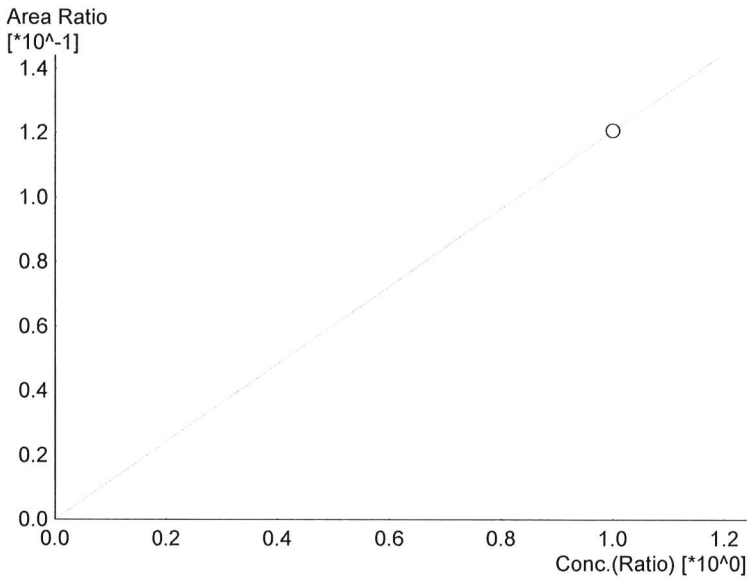
Name : Ethanol
 Detector Name: FID1
 Function : $f(x)=2.09165*x+0$
 R² value= 0.9996658
 FitType: Linear
 ZeroThrough: Through

#	Conc.	Area	Std. Conc.
1	0.050	21716	0.0459
2	0.100	47924	0.1016
3	0.200	93486	0.1959
4	0.300	141639	0.2960
5	0.500	242353	0.5041



Name : Isopropyl Alcohol
 Detector Name: FID1
 Function : $f(x)=0.201625*x+0$
 R^2 value= 1.000000
 FitType: Linear
 ZeroThrough: Through

#	Conc.	Area	Std. Conc.
6	1.000	46805	1.0000



Name : Acetone
 Detector Name: FID1
 Function : $f(x)=0.120709*x+0$
 R^2 value= 1.000000
 FitType: Linear
 ZeroThrough: Through

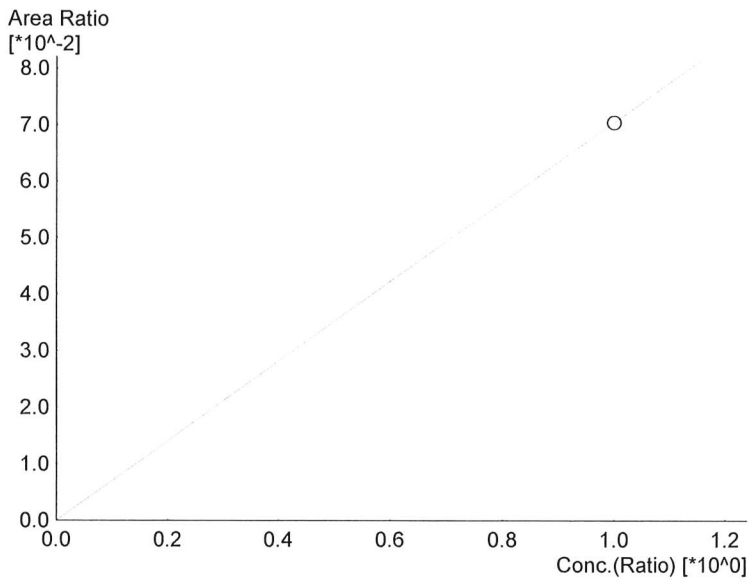
#	Conc.	Area	Std. Conc.
6	1.000	28021	1.0000



Name : Fluor. Hydrocarbon(s)
 Detector Name: FID1
 Function : $f(x)=0*x+0$
 R^2 value= 0
 FitType: Linear
 ZeroThrough: Through

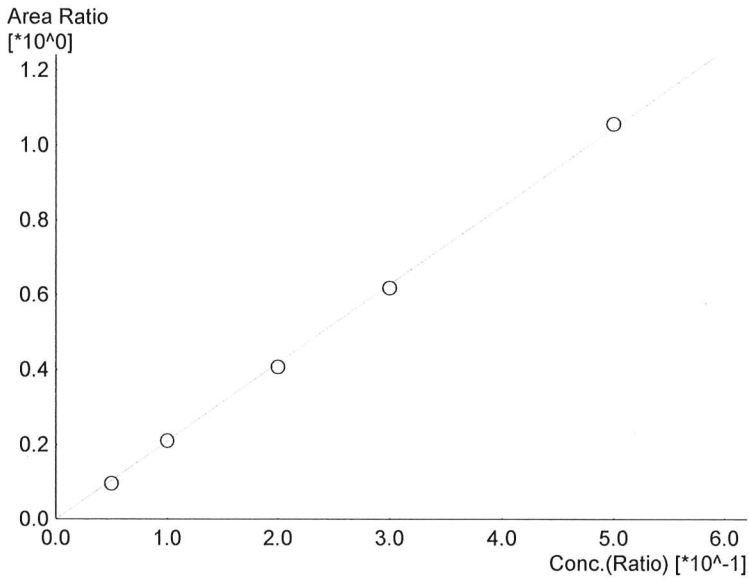
#	Conc.	Area	Std. Conc.
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99



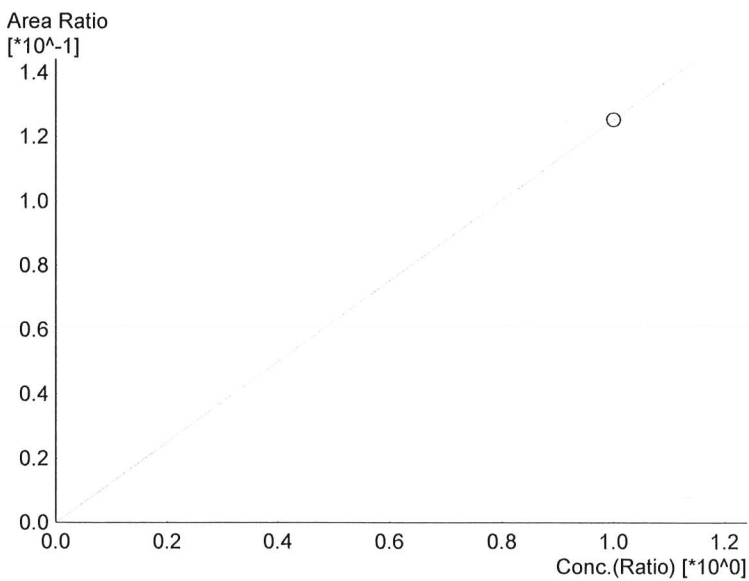
Name : Methanol
 Detector Name: FID2
 Function : $f(x)=0.0704001*x+0$
 R² value= 1.000000
 FitType: Linear
 ZeroThrough: Through

#	Conc.	Area	Std. Conc.
6	1.000	18015	1.0000



Name : Ethanol
 Detector Name: FID2
 Function : $f(x)=2.09212*x+0$
 R² value= 0.9996097
 FitType: Linear
 ZeroThrough: Through

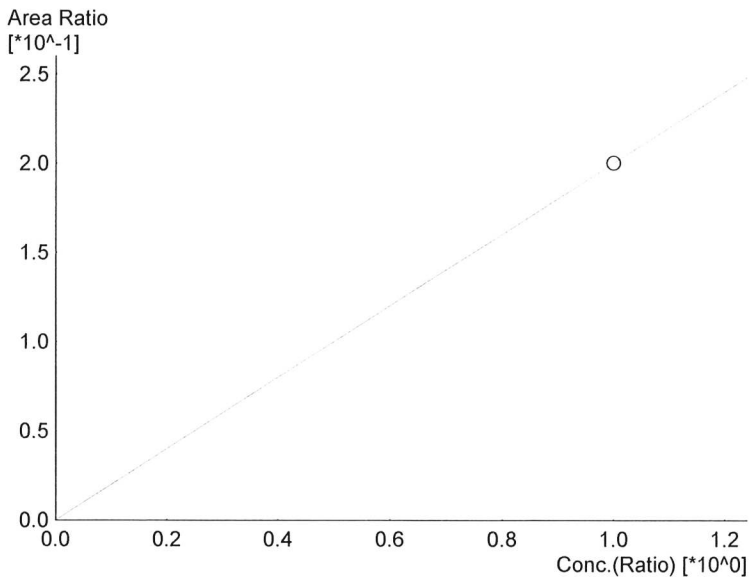
#	Conc.	Area	Std. Conc.
1	0.050	23324	0.0455
2	0.100	51496	0.1004
3	0.200	101146	0.1944
4	0.300	153957	0.2955
5	0.500	264854	0.5052



Name : Acetone
 Detector Name: FID2
 Function : $f(x)=0.125364*x+0$
 R² value= 1.000000
 FitType: Linear
 ZeroThrough: Through

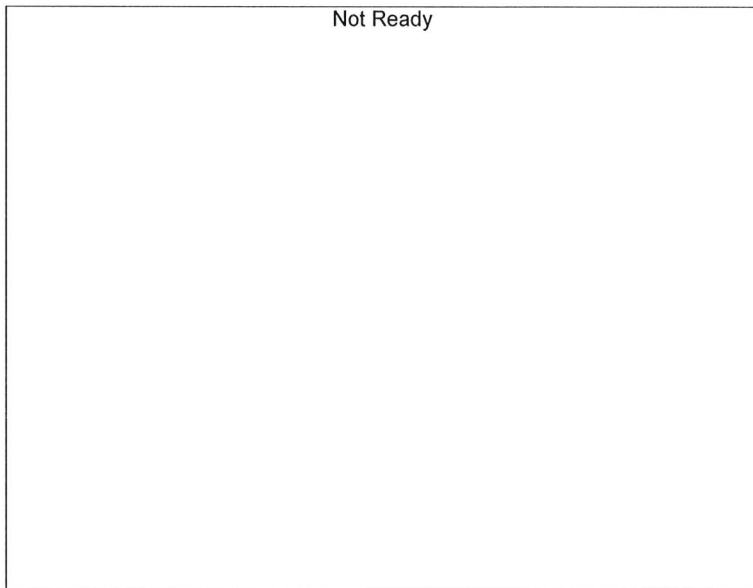
#	Conc.	Area	Std. Conc.
6	1.000	32080	1.0000

99



Name : Isopropyl Alcohol
 Detector Name: FID2
 Function : $f(x)=0.200395*x+0$
 R² value= 1.000000
 FitType: Linear
 ZeroThrough: Through

#	Conc.	Area	Std. Conc.
6	1.000	51279	1.0000

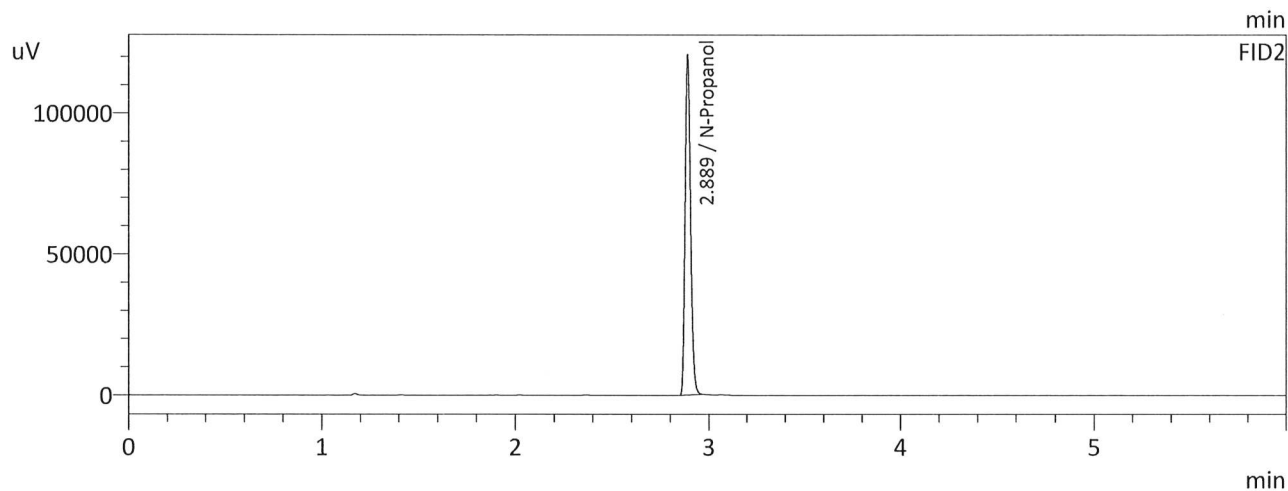
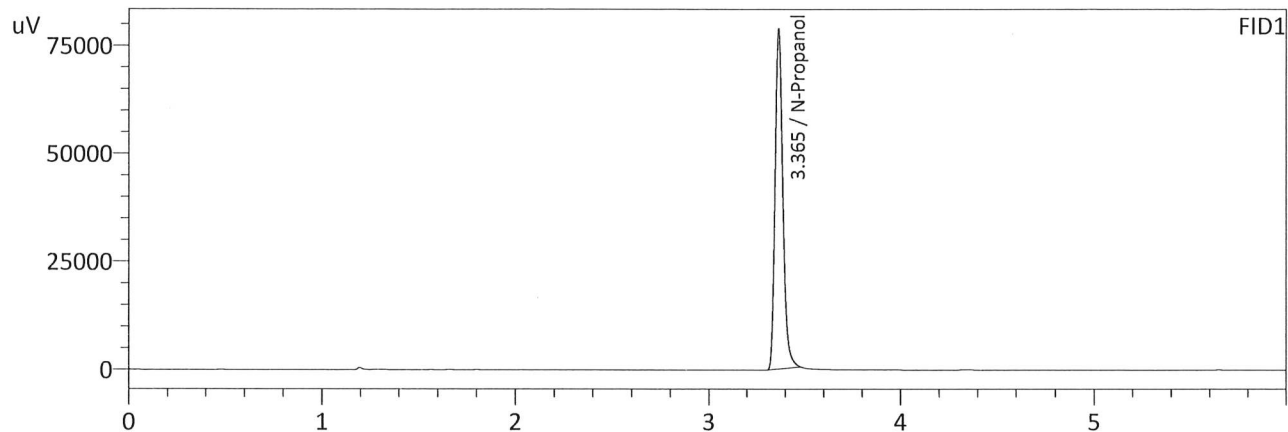


Name : Fluor. Hydrocarbon(s)
 Detector Name: FID2
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Through

#	Conc.	Area	Std. Conc.
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99

Sample Name : INT STD BLK 1
 Laboratory : Coeur d' Alene Lab
 Injection Date : 6/7/2022 9:33:54 AM
 Vial # : 1
 Method Filename : C:\LabSolutions\Data\6-7-22\ALCOHOL.GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

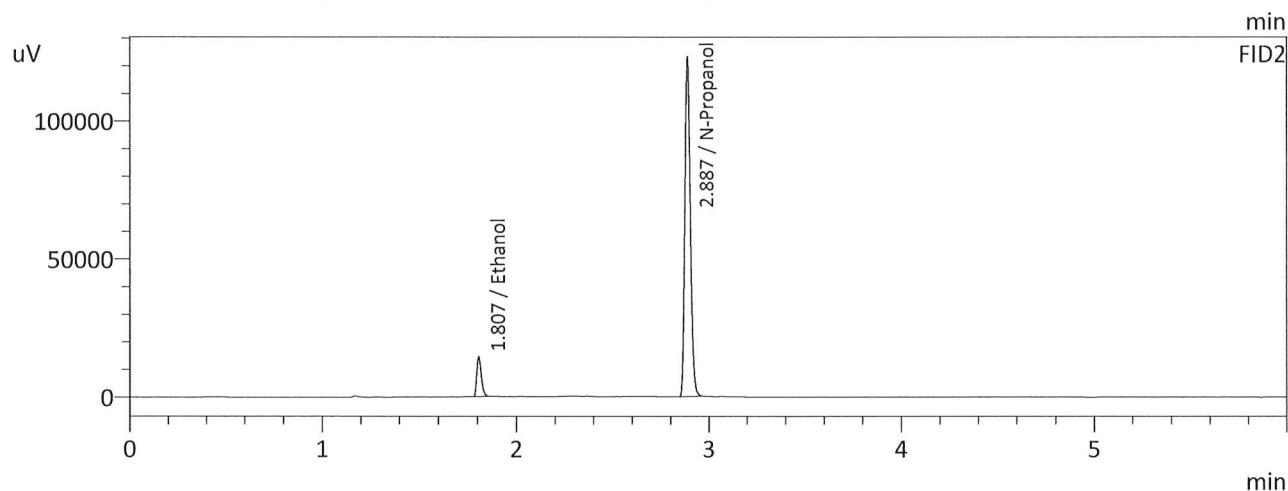
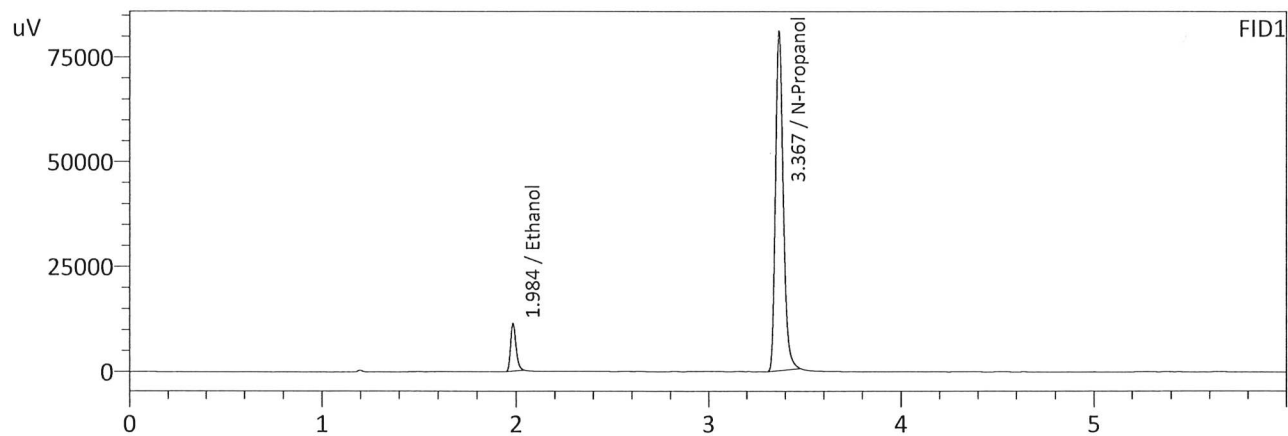
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	221147	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	239104	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : 0.050
 Laboratory : Coeur d' Alene Lab
 Injection Date : 6/7/2022 9:43:10 AM
 Vial # : 2
 Method Filename : C:\LabSolutions\Data\6-7-22\ALCOHOL.GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

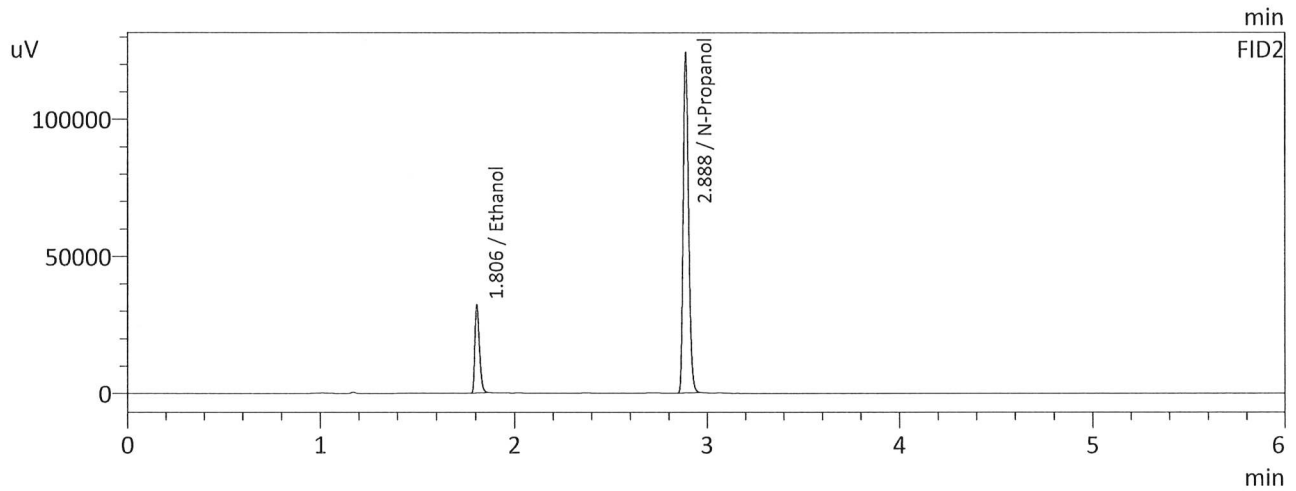
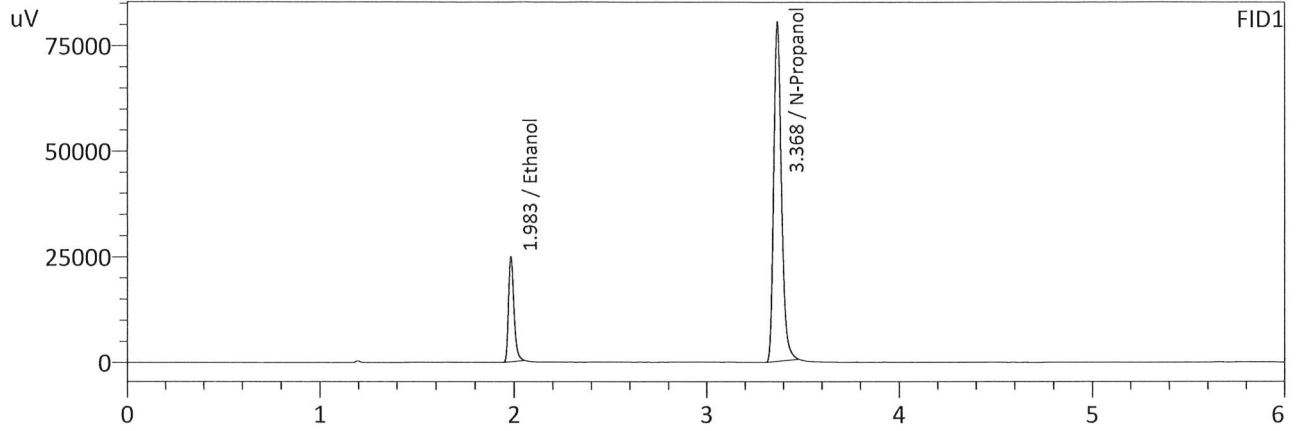
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0459	21716	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	226083	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0455	23324	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	244658	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : 0.100
 Laboratory : Coeur d' Alene Lab
 Injection Date : 6/7/2022 9:53:40 AM
 Vial # : 3
 Method Filename : C:\LabSolutions\Data\6-7-22\ALCOHOL.GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

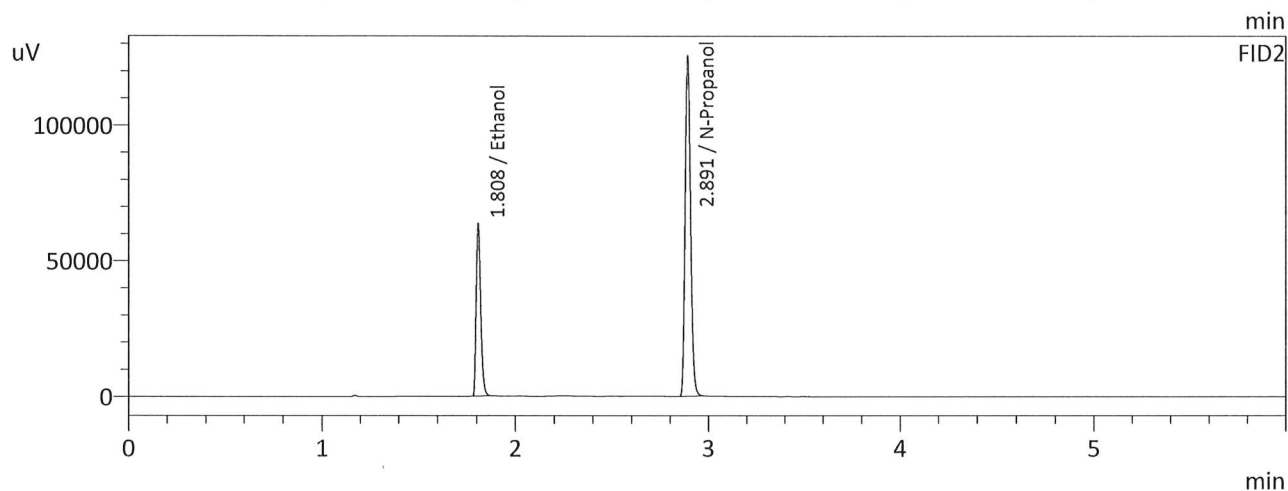
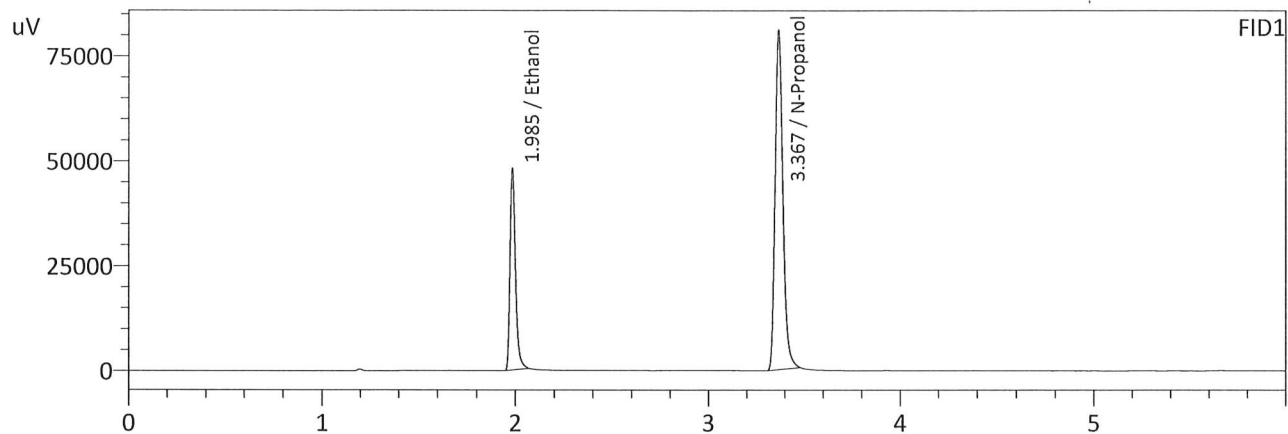
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1016	47924	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	225410	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1004	51496	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	244959	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : 0.200
 Laboratory : Coeur d' Alene Lab
 Injection Date : 6/7/2022 10:02:59 AM
 Vial # : 4
 Method Filename : C:\LabSolutions\Data\6-7-22\ALCOHOL.GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

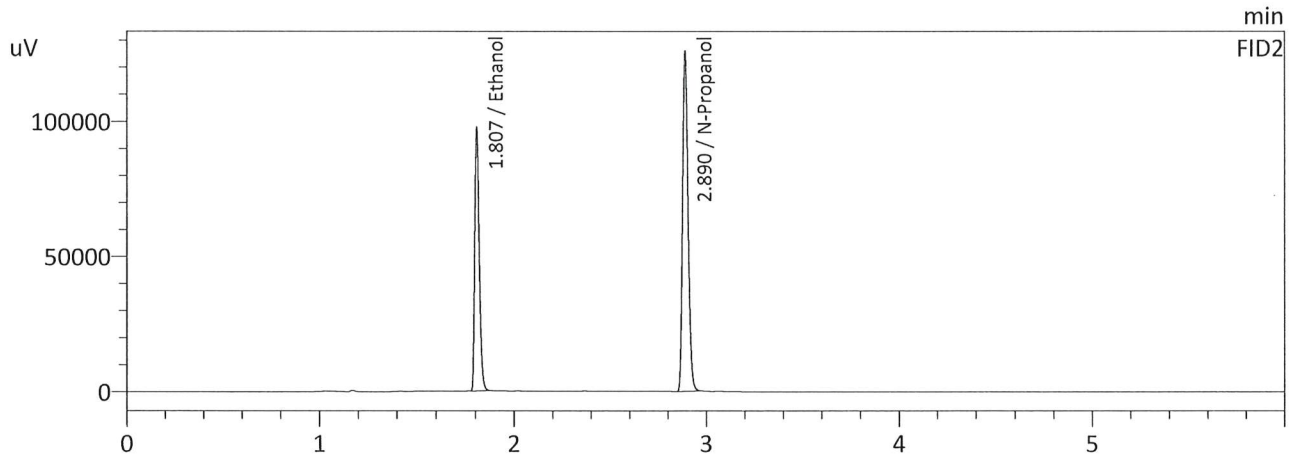
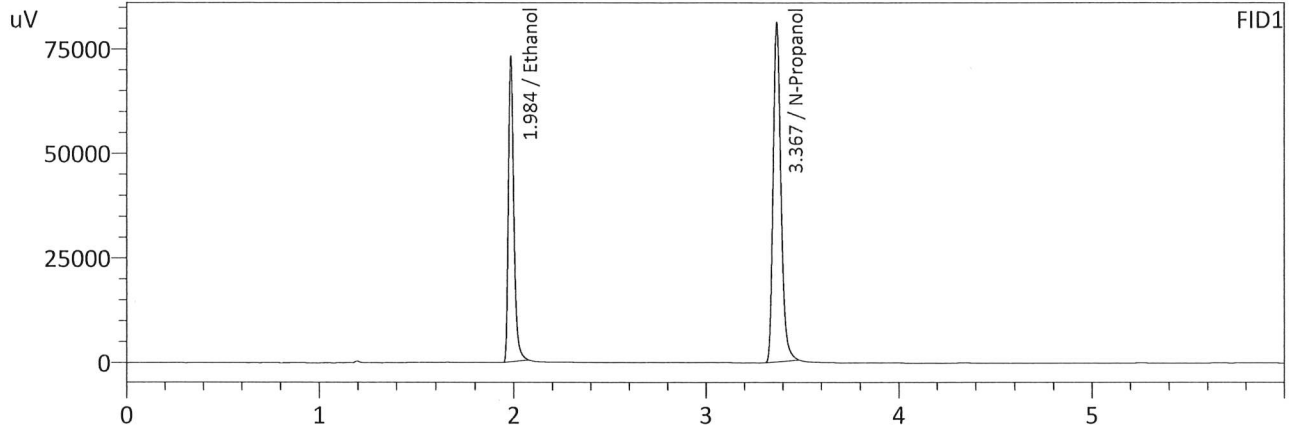
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1959	93486	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	228146	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1944	101146	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	248622	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : 0.300
 Laboratory : Coeur d' Alene Lab
 Injection Date : 6/7/2022 10:13:27 AM
 Vial # : 5
 Method Filename : C:\LabSolutions\Data\6-7-22\ALCOHOL.GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

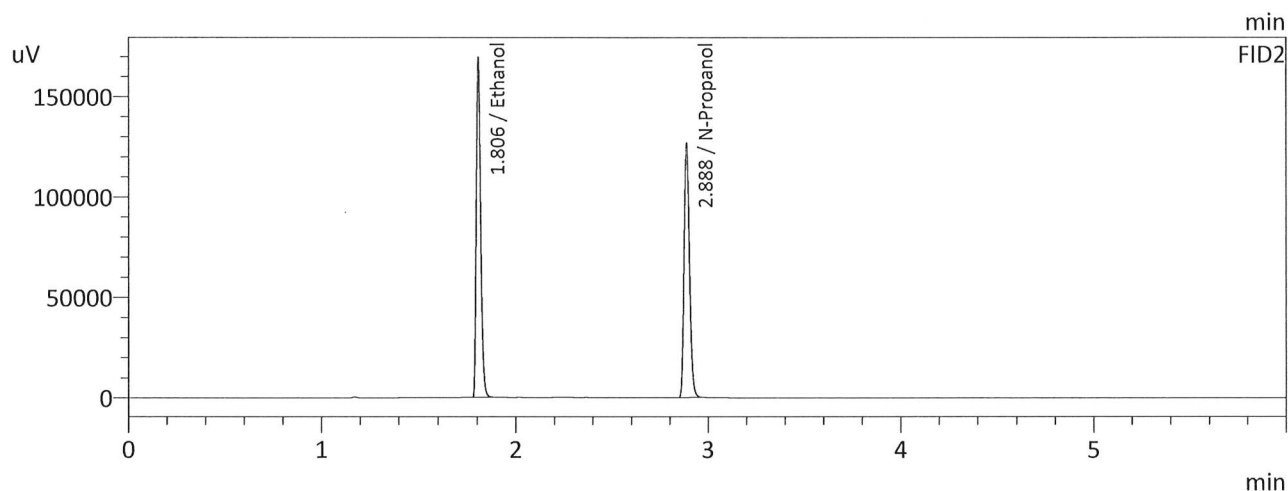
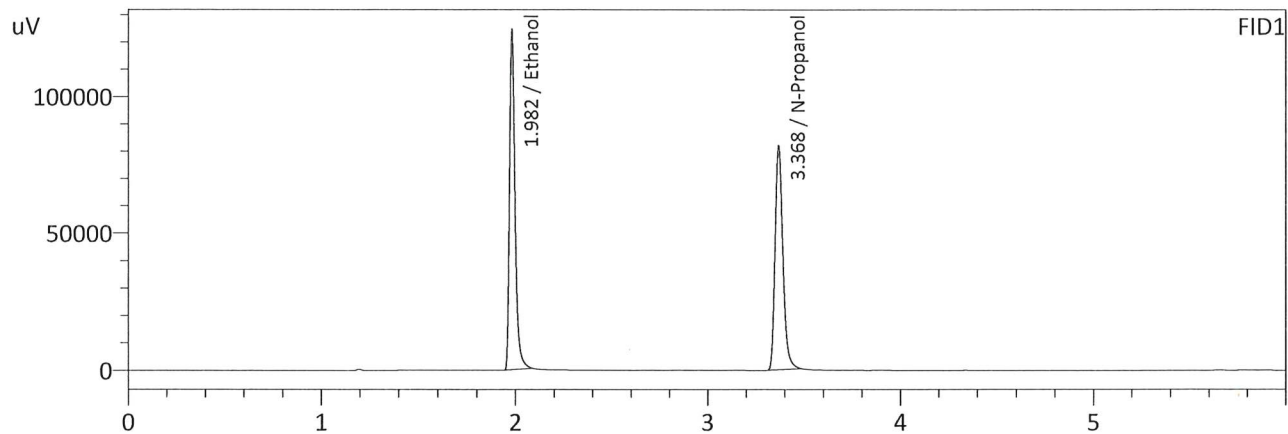
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2960	141639	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	228765	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2955	153957	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	249011	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : 0.500
 Laboratory : Coeur d' Alene Lab
 Injection Date : 6/7/2022 10:22:46 AM
 Vial # : 6
 Method Filename : C:\LabSolutions\Data\6-7-22\ALCOHOL.GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

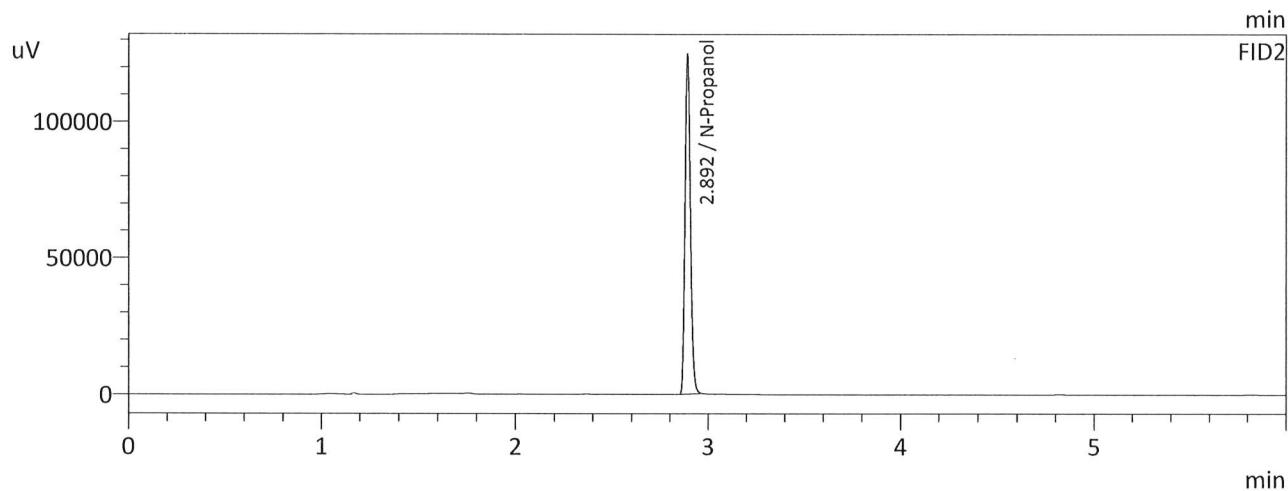
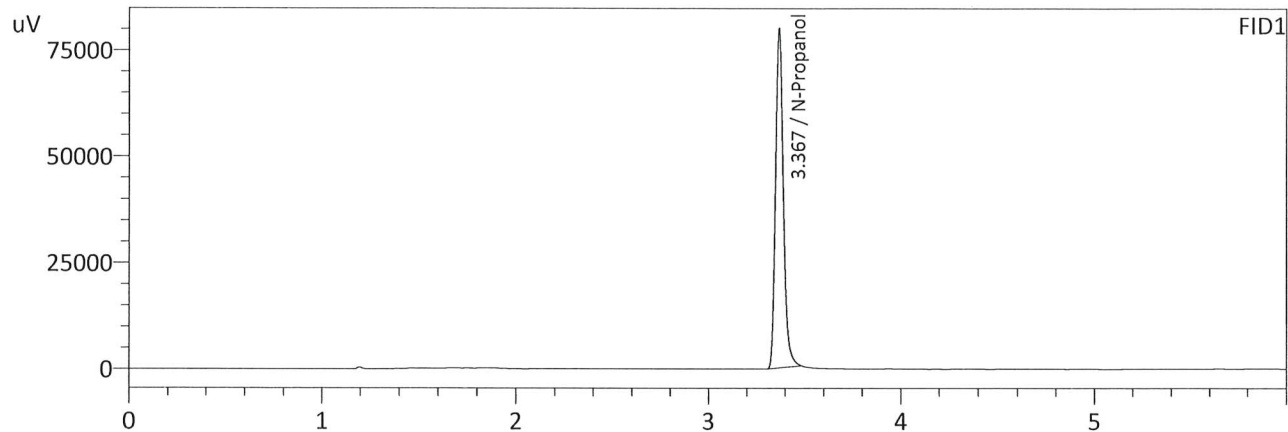
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5041	242353	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	229843	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5052	264854	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	250562	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : INT STD BLK 2
 Laboratory : Coeur d' Alene Lab
 Injection Date : 6/7/2022 10:33:15 AM
 Vial # : 7
 Method Filename : C:\LabSolutions\Data\6-7-22\ALCOHOL.GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

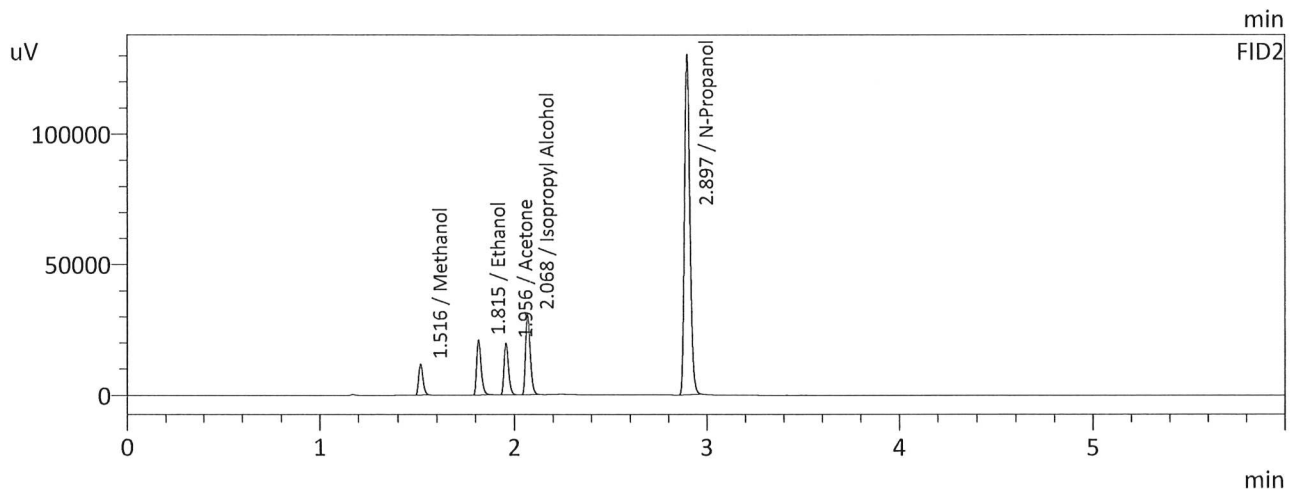
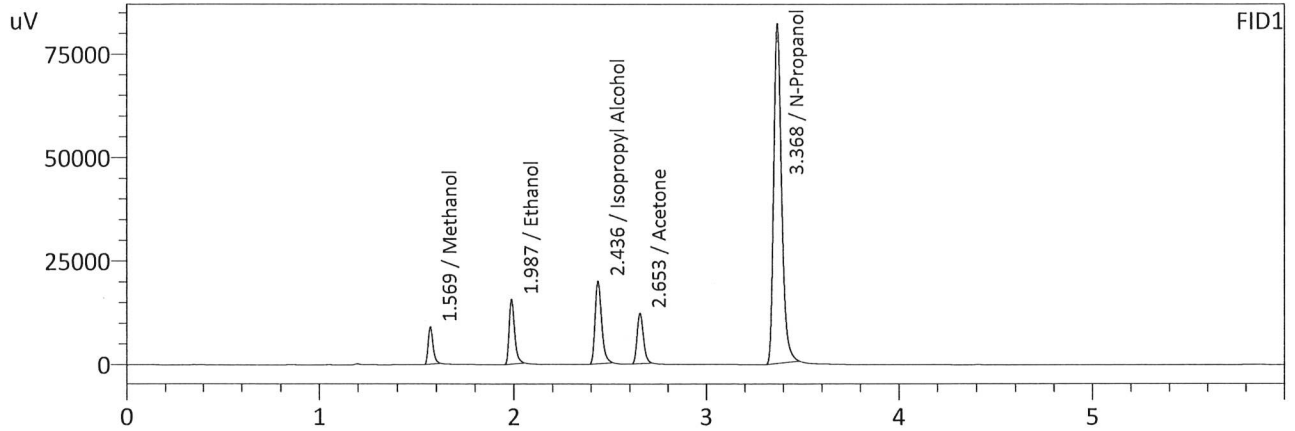
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	226348	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	246340	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : MULTI-COMP MIX
 Laboratory : Coeur d' Alene Lab
 Injection Date : 6/7/2022 10:42:33 AM
 Vial # : 8
 Method Filename : C:\LabSolutions\Data\6-7-22\ALCOHOL.GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

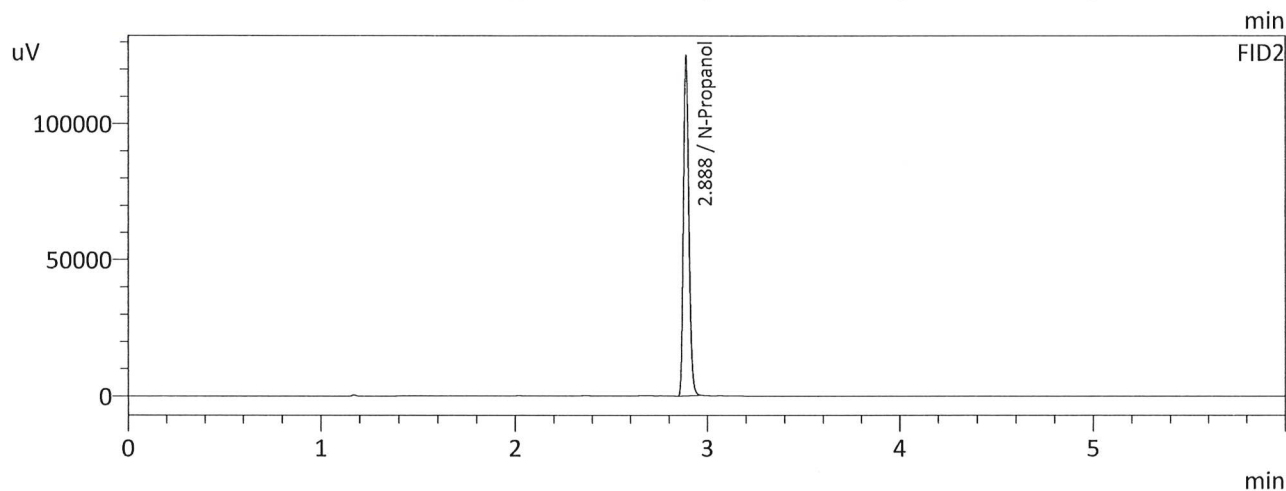
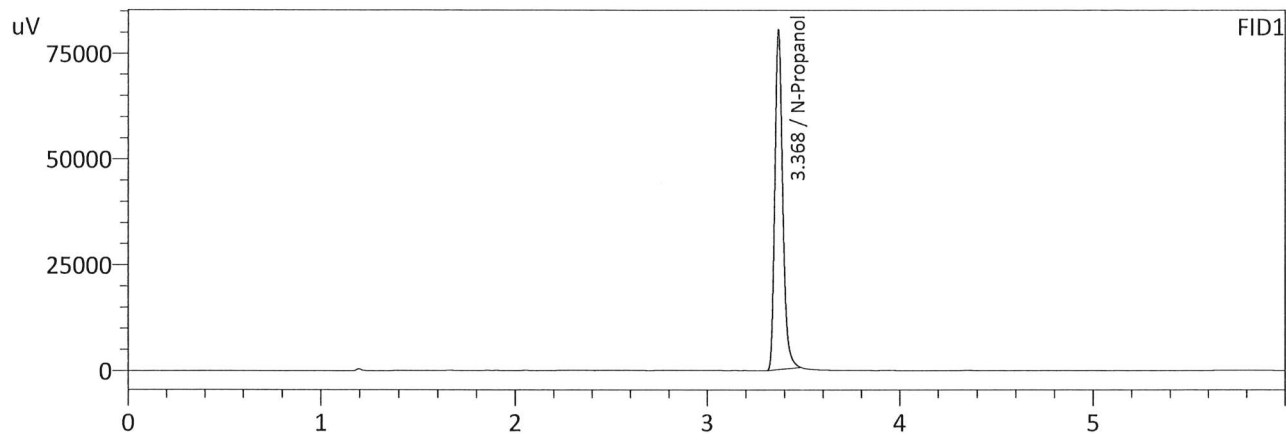
Name	Conc.	Area	Unit
Methanol	1.0000	15435	g/100cc
Ethanol	0.0629	30567	g/100cc
Isopropyl Alcohol	1.0000	46805	g/100cc
Acetone	1.0000	28021	g/100cc
N-Propanol	0.0000	232140	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	1.0000	18015	g/100cc
Ethanol	0.0635	34031	g/100cc
Acetone	1.0000	32080	g/100cc
Isopropyl Alcohol	1.0000	51279	g/100cc
N-Propanol	0.0000	255891	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : INT STD BLK 3
 Laboratory : Coeur d' Alene Lab
 Injection Date : 6/7/2022 10:53:01 AM
 Vial # : 9
 Method Filename : C:\LabSolutions\Data\6-7-22\ALCOHOL.GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	226371	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	246594	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC1

Item #

Analysis Date(s): 6/7/22

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0712	0.0708	0.0004	0.0710	0.0001	0.0710
(g/100cc)	0.0713	0.0709	0.0004	0.0711		

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

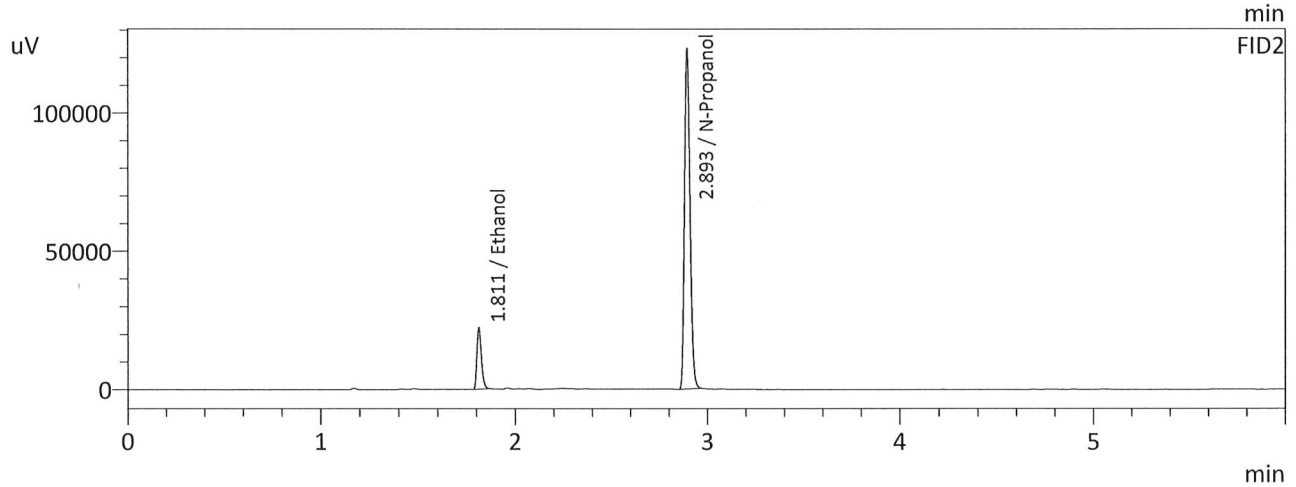
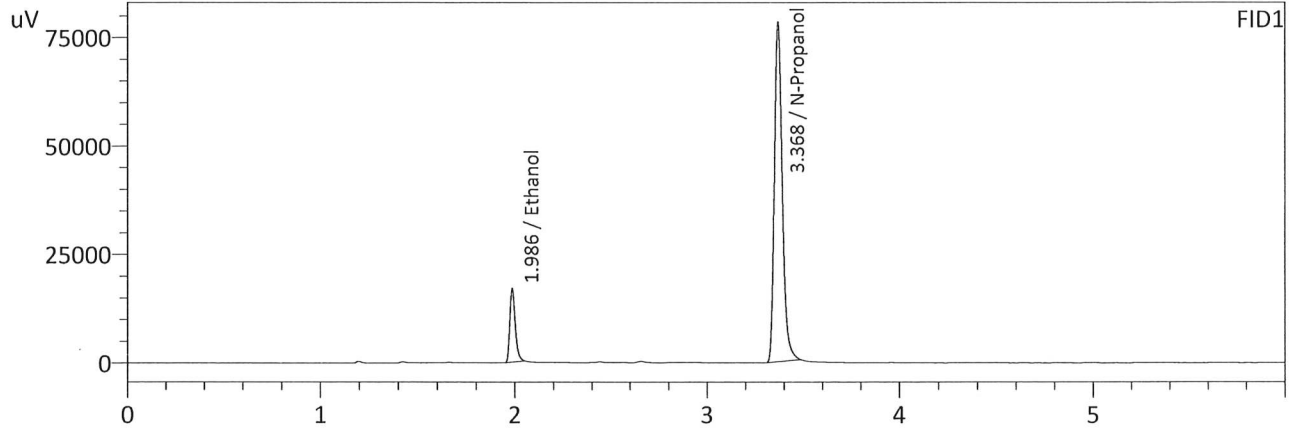
Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.071	0.067	0.075	0.004

Reported Result	
0.071	

Calibration and control data are stored centrally.

Sample Name : QC-1-1-A
 Laboratory : Coeur d' Alene Lab
 Injection Date : 6/7/2022 11:02:20 AM
 Vial # : 10
 Method Filename : C:\LabSolutions\Data\6-7-22\ALCOHOL.GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

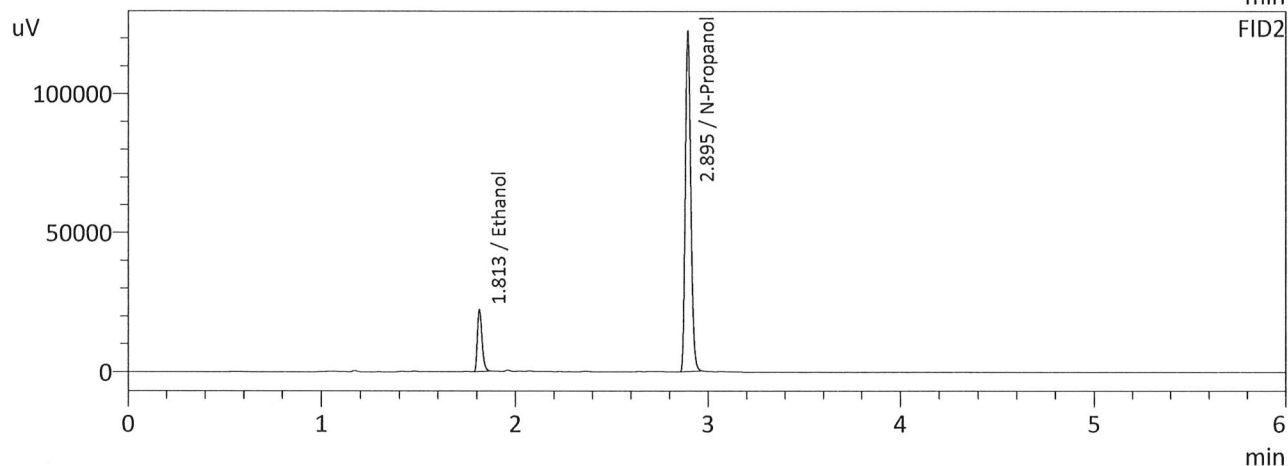
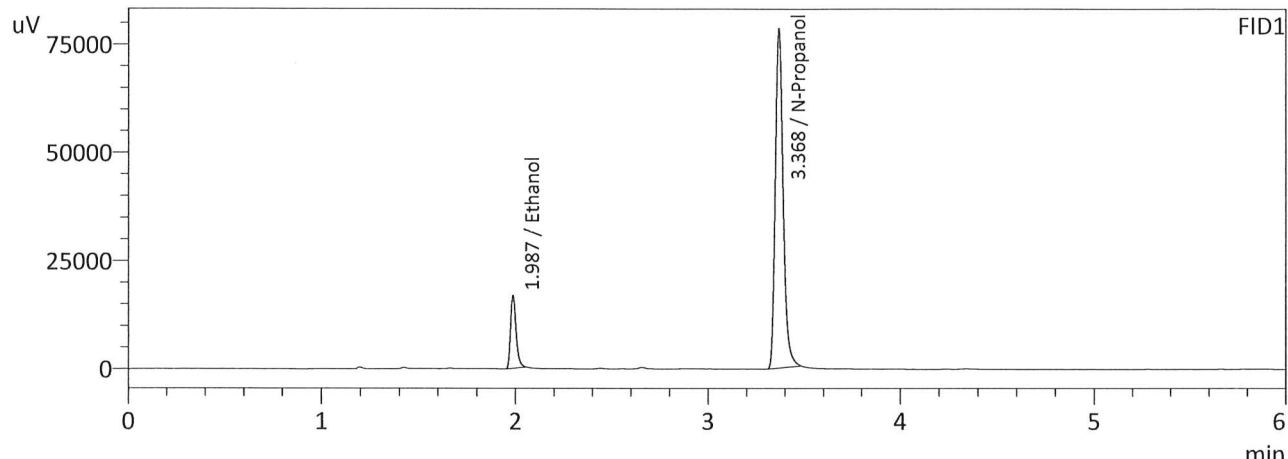
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0712	33093	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	222092	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0708	36127	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	243710	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : QC-1-1-B
 Laboratory : Coeur d' Alene Lab
 Injection Date : 6/7/2022 11:12:49 AM
 Vial # : 11
 Method Filename : C:\LabSolutions\Data\6-7-22\ALCOHOL.GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0713	33129	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	221926	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0709	36113	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	243373	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: 0.080

Item #

Analysis Date(s): 6/7/22

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0777	0.0777	0.0000	0.0777	0.0004	0.0775
(g/100cc)	0.0773	0.0773	0.0000	0.0773		

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

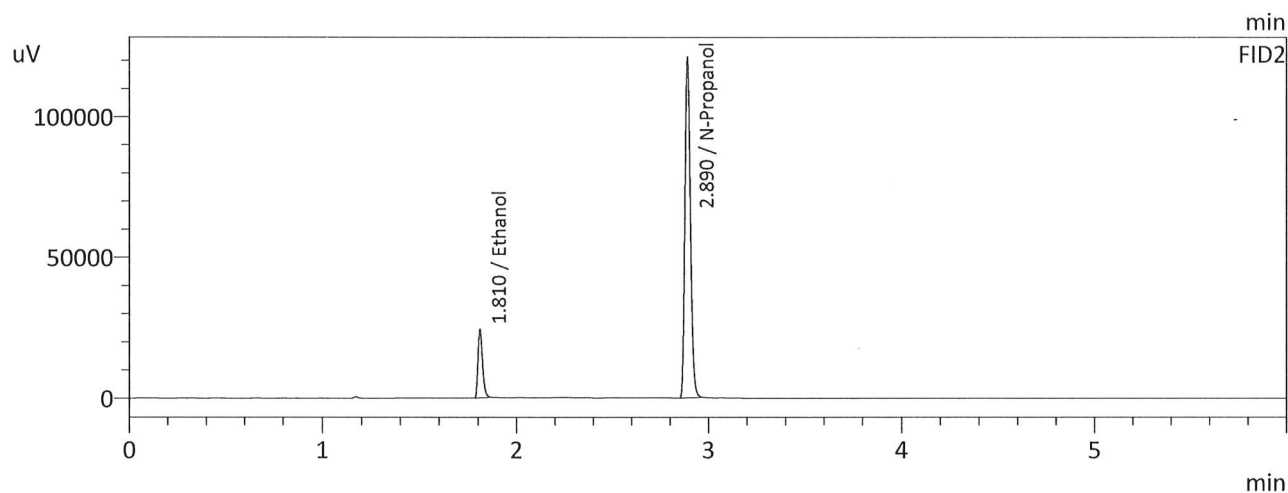
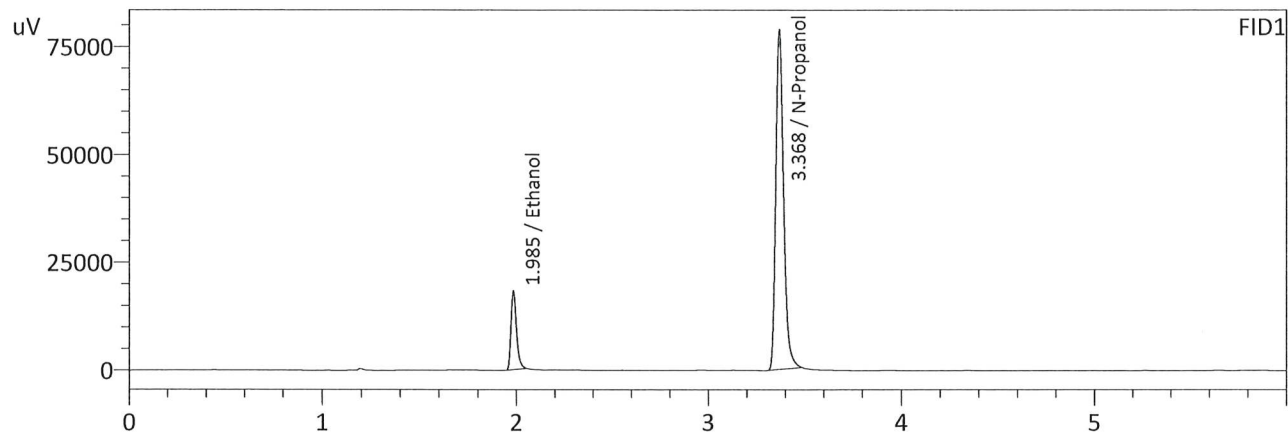
Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.077	0.073	0.081	0.004

Reported Result	
0.077	

Calibration and control data are stored centrally.

Sample Name : 0.08 QA - A
 Laboratory : Coeur d' Alene Lab
 Injection Date : 6/7/2022 11:22:07 AM
 Vial # : 12
 Method Filename : C:\LabSolutions\Data\6-7-22\ALCOHOL.GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

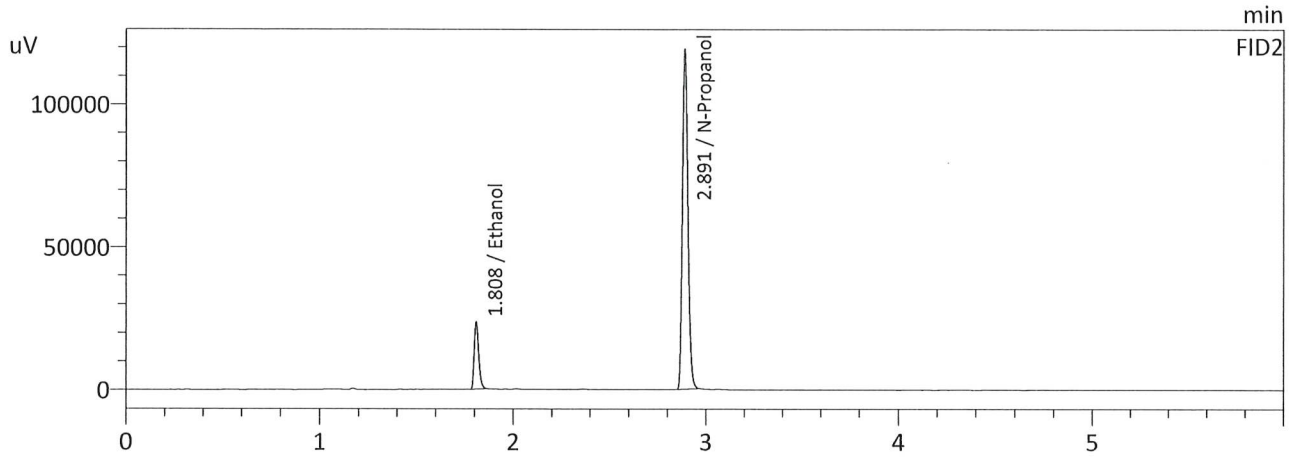
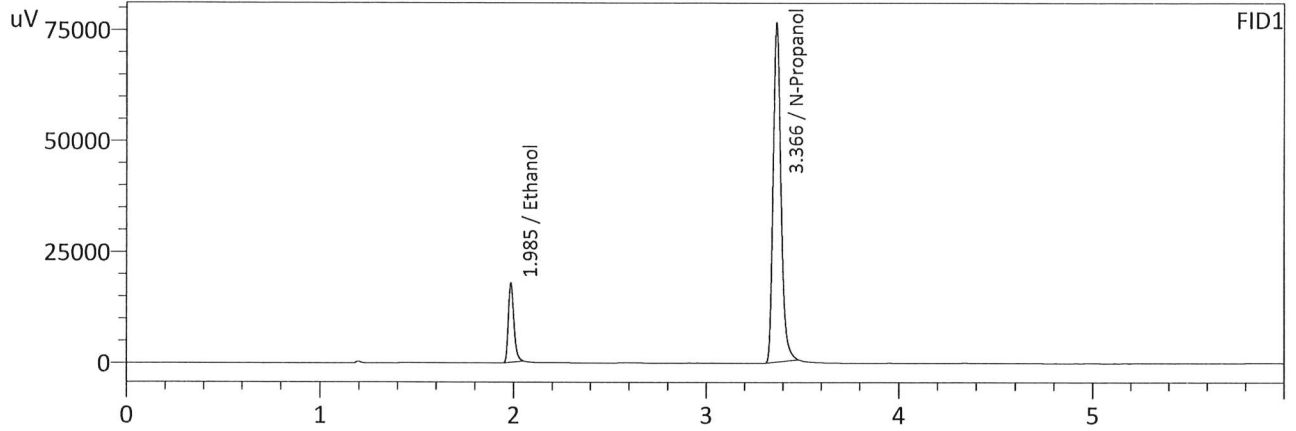
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0777	35962	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	221220	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0777	39342	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	241795	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

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Sample Name : 0.08 QA - B
 Laboratory : Coeur d' Alene Lab
 Injection Date : 6/7/2022 11:32:34 AM
 Vial # : 13
 Method Filename : C:\LabSolutions\Data\6-7-22\ALCOHOL.GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0773	35008	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	216484	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0773	38458	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	237514	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC2

Item #

Analysis Date(s): 6/7/22

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2119	0.2120	0.0001	0.2119	0.0023	0.2107
(g/100cc)	0.2096	0.2096	0.0000	0.2096		

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%

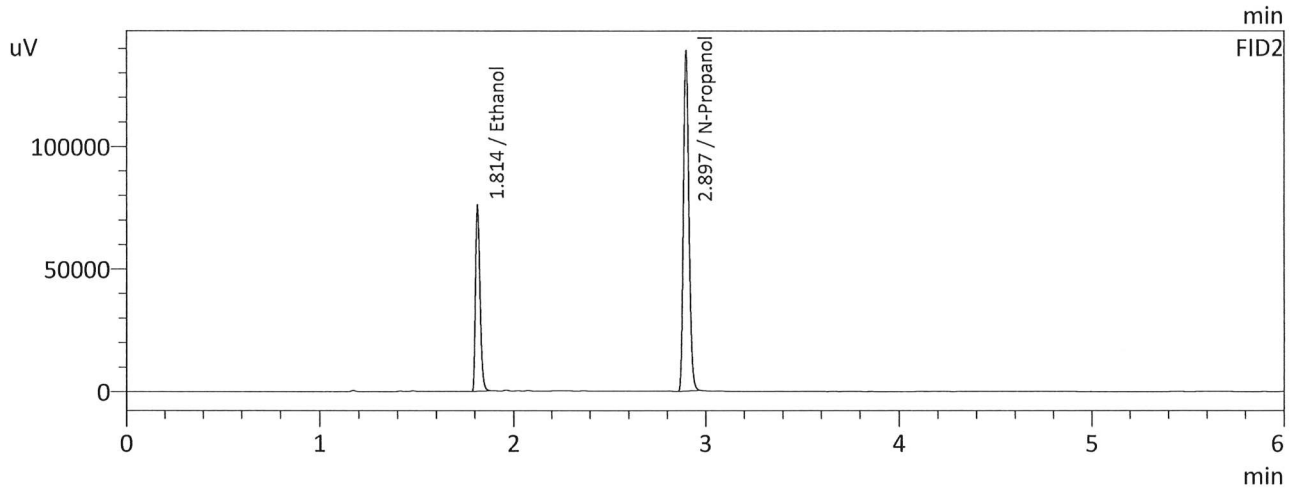
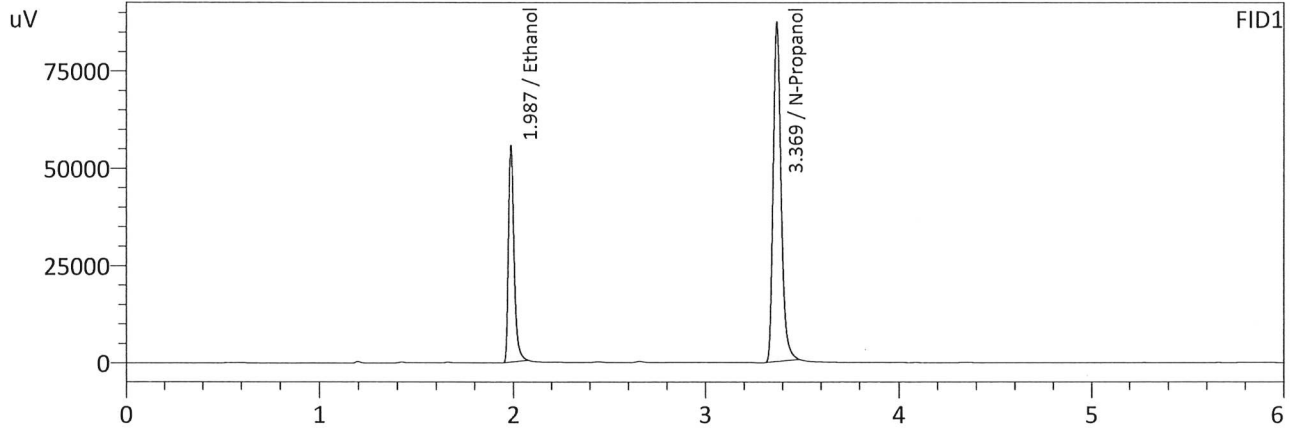
Overall Mean (g/100cc)	Low	High	5% of Mean
0.210	0.199	0.221	0.011

	Reported Result	
	0.210	

Calibration and control data are stored centrally.

99

Sample Name : QC-2-1-A
 Laboratory : Coeur d' Alene Lab
 Injection Date : 6/7/2022 2:39:55 PM
 Vial # : 32
 Method Filename : C:\LabSolutions\Data\6-7-22\ALCOHOL.GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

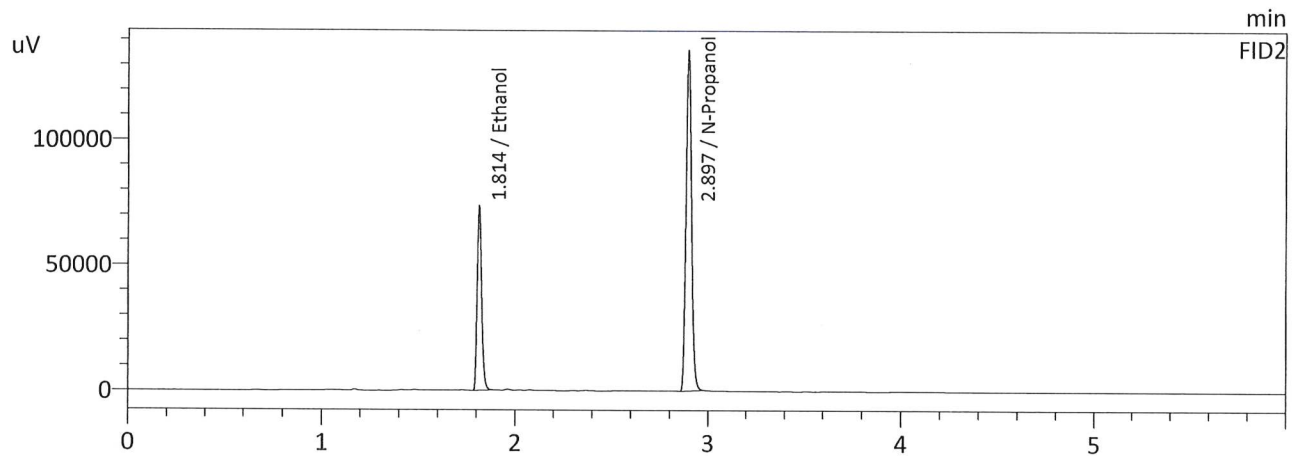
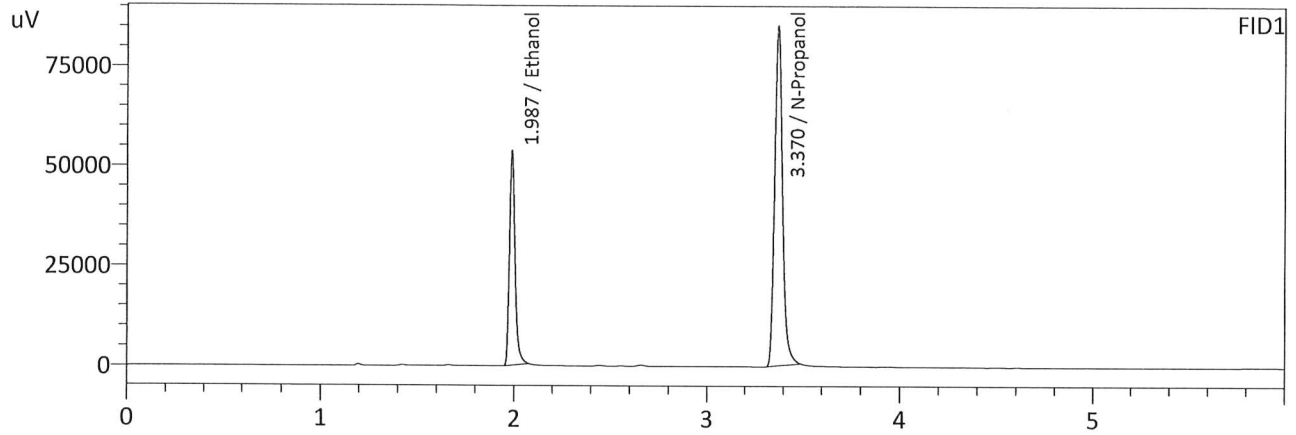
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2119	110149	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	248432	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2120	122241	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	275503	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : QC-2-1-B
 Laboratory : Coeur d' Alene Lab
 Injection Date : 6/7/2022 2:50:25 PM
 Vial # : 33
 Method Filename : C:\LabSolutions\Data\6-7-22\ALCOHOL.GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

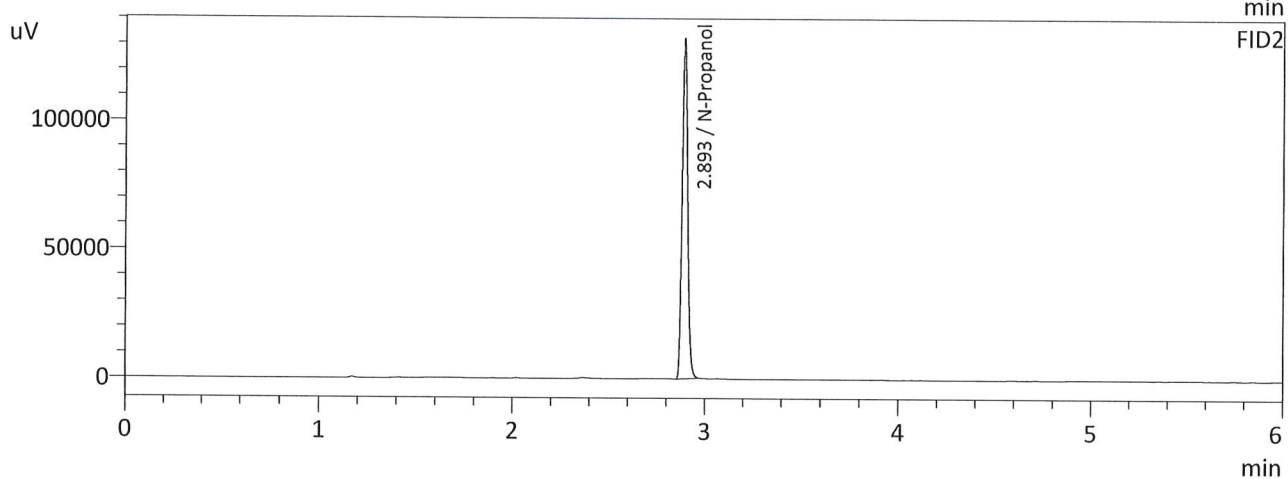
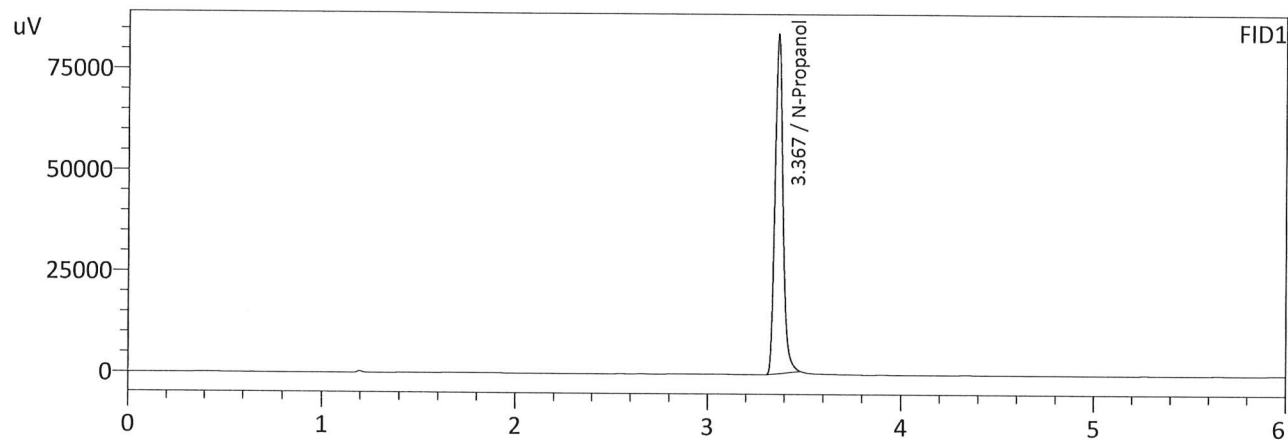
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2096	106471	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	242852	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2096	118092	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	269245	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : INT STD BLK 4
 Laboratory : Coeur d' Alene Lab
 Injection Date : 6/7/2022 2:59:34 PM
 Vial # : 34
 Method Filename : C:\LabSolutions\Data\6-7-22\ALCOHOL.GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	238401	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	263321	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

**Idaho State Police
Forensic Services**

Request for Departure from an Analytical Method or Quality Standard

Deviation Number (assigned by QM):

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

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

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

Temporary or Permanent Deviation: Permanent

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

Deviation Request

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

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

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

Technical Justification for Analytical Method Deviations:

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

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

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


Technical Review

Departure approved

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

Departure Not Approved

Comments:

Approver: 
Title: Discipline Lead

Date: 1/21/22

Quality Review

Quality Approver:

Title:

Date:

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Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number: ML600HC11379

Volatiles Quality Assurance Controls

Run Date(s): 6-7-2022

Calibration Date: (if different)

Worklist #: 5989

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-23	19070006	0.0764	0.0688-0.0840	0.0710 g/100cc
					g/100cc
					g/100cc
Level 2	Jul-23	19070007	0.2170	0.1953-0.2387	0.2107 g/100cc
					g/100cc
					g/100cc
Multi-Component mixture:		Exp:	22-Jul	Lot #	FN07101701
Curve Fit:			Column 1	0.99966	Column2 0.99960

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0459	0.0455	0.0004	0.0457
100	0.100	0.090 - 0.110	0.1016	0.1004	0.0012	0.101
200	0.200	0.180 - 0.220	0.1959	0.1944	0.0015	0.1951
300	0.300	0.270 - 0.330	0.2960	0.2955	0.0005	0.2957
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5041	0.5052	0.0011	0.5046
Internal Standard	Average	(-) 20%	(+) 20%			
N-Propanol:	227845.5	190276.4	285414.6			

Aqueous Controls

Control level	Target Value	Acceptable Range	Overall Results
80	0.080	0.076 - 0.084	0.077 g/100cc

6-15-22

JA

REVISED
11:22 am, Jun 15, 2022

Revision: 4

Issue Date: 01/24/2022

Issuing Authority: Quality Manager

66

Internal Standard Monitoring Worksheet

Worklist #: 5989 Run Date(s): 6-7-2022

Internal Standard Solution: Lot# A014463901 | Prep Date: 4/28/22 | Exp Date: 10/28/22

Sample Name	Column 1 Value	Column 2 Value	Average
0.080	221220	241795	231507.5
0.080	216484	237514	226999
QC1	222092	243710	232901
QC1	221926	243373	232649.5
QC1			#DIV/0!
QC1			#DIV/0!
QC1			#DIV/0!
QC1			#DIV/0!
QC2	248432	275503	261967.5
QC2	242852	239245	241048.5
QC2		269245 6-15-22	#DIV/0!
QC2		<i>99</i>	#DIV/0!
QC2			#DIV/0!
QC2			#DIV/0!

Combined Average	(-)20%	(+)20%
237845.5	190276.4	285414.6

6-15-22

99

REVISED
11:23 am, Jun 15, 2022