Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number: ML600HC11378

Volatiles Quality Assurance Controls **Run Date(s): 6/24/21**

Calibration Date: 6/14/21

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-21	1907006	0.0764	0.0688-0.0840	0.0744 g/100cc
					0.0768 g/100cc
					g/100cc
Level 2	Jul-21	1907707	0.2170	0.2062-0.2278	0.2079 g/100cc
					0.2090 g/100cc
					g/100cc

Multi-Component mixture:		Lot #	FN07101701	
Curve Fit:	Column 1	0.99995	Column2	0.99996

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0513	0.0513	0	0.0513
100	0.100	0.090 - 0.110	0.0996	0.0995	1E-04	0.0995
200	0.200	0.180 - 0.220	0.1992	0.1992	0	0.1992
300	0.300	0.270 - 0.330	0.2987	0.2990	0.0003	0.2988
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5010	0.5008	0.0002	0.5009

Aqueous Controls

Control level	Target Value	Acceptable Range	Overall Results
80	0.080	0.076 - 0.084	0.083 g/100cc

REVIEWED

By Jeremy Johnston at 7:46 am, Jun 30, 2021

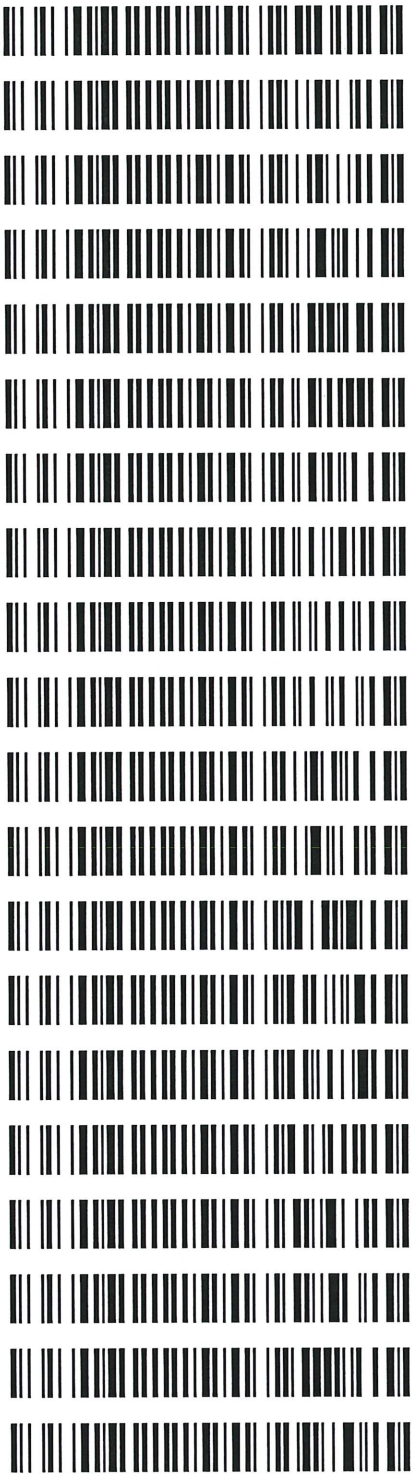
JG

Revision: 2
Issue Date: 12/23/2019
Issuing Authority: Quality Manager

6/25/2021

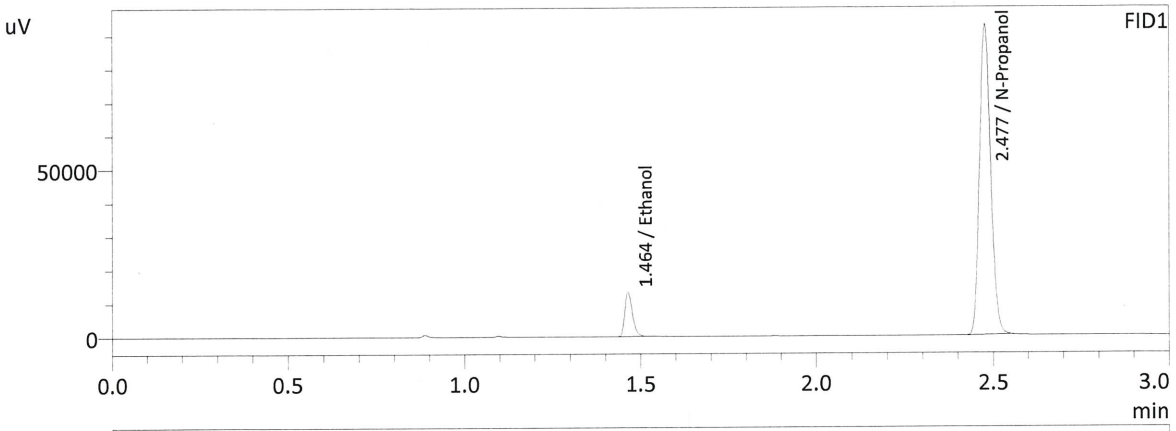
Worklist: 5067

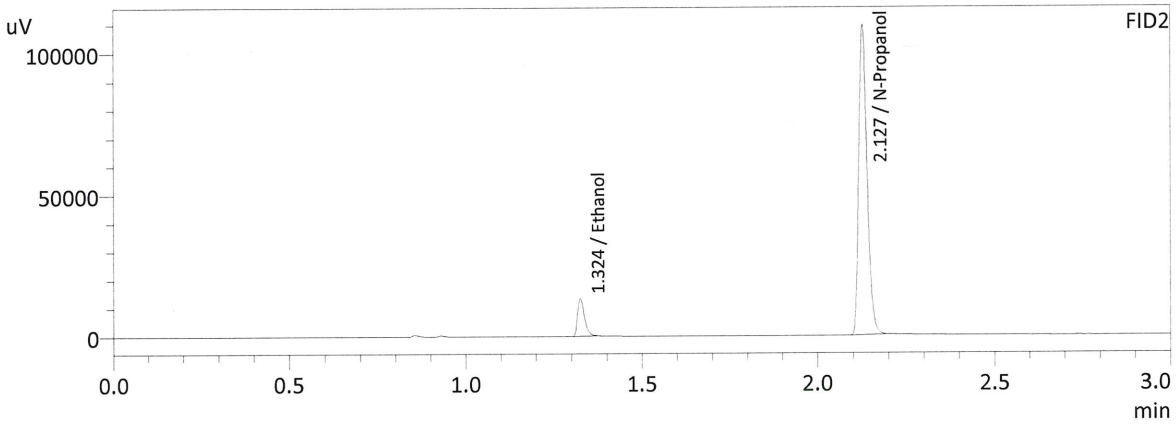
LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2021-2376	4	BCK	Alcohol Analysis
M2021-2646	1	BCK	Alcohol Analysis
M2021-2649	1	BCK	Alcohol Analysis
M2021-2652	1	BCK	Alcohol Analysis
M2021-2653	1	BCK	Alcohol Analysis
M2021-2654	1	BCK	Alcohol Analysis
M2021-2655	1	BCK	Alcohol Analysis
M2021-2656	1	BCK	Alcohol Analysis
M2021-2657	1	BCK	Alcohol Analysis
M2021-2666	1	BCK	Alcohol Analysis
M2021-2677	1	BCK	Alcohol Analysis
M2021-2691	1	BCK	Alcohol Analysis
M2021-2698	1	BCK	Alcohol Analysis
M2021-2705	1	BCK	Alcohol Analysis
M2021-2706	1	BCK	Alcohol Analysis
M2021-2707	1	BCK	Alcohol Analysis
M2021-2732	1	BCK	Alcohol Analysis
M2021-2733	1	BCK	Alcohol Analysis
M2021-2760	1	BCK	Alcohol Analysis
M2021-2772	1	BCK	Alcohol Analysis



JC

Sample Name : 0.050
Laboratory : Meridian
Injection Date : 6/14/2021 11:59:37 AM
Vial # : 1
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

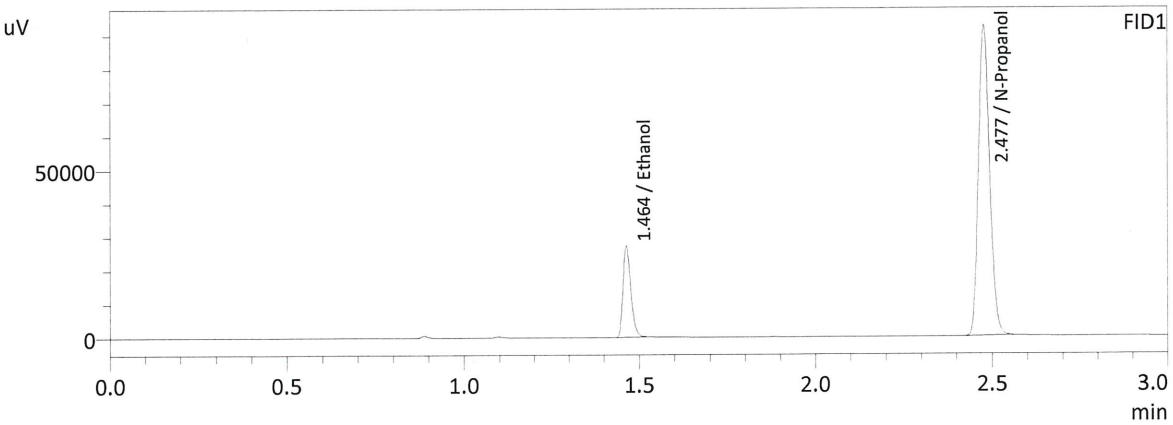
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0513	20469	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	204690	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

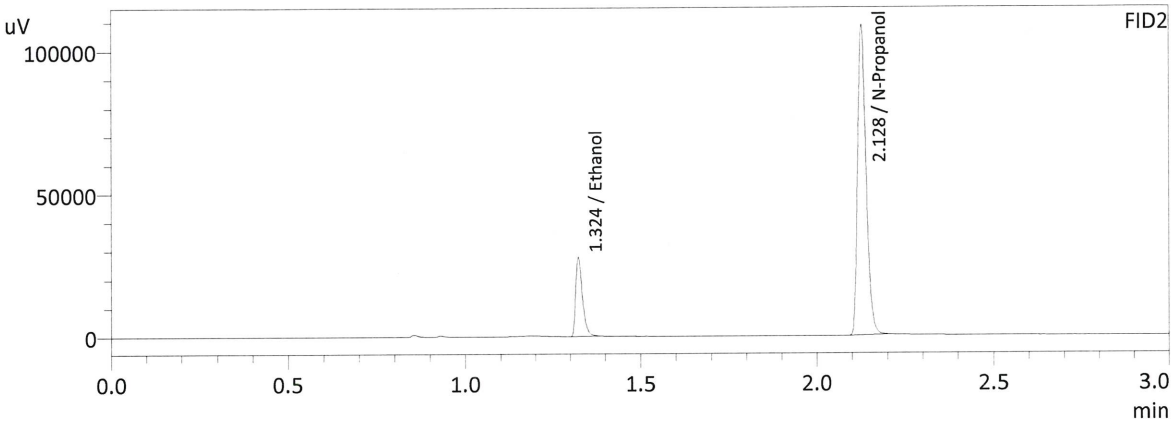
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0513	17938	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	180632	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : 0.100
Laboratory : Meridian
Injection Date : 6/14/2021 12:06:58 PM
Vial # : 2
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

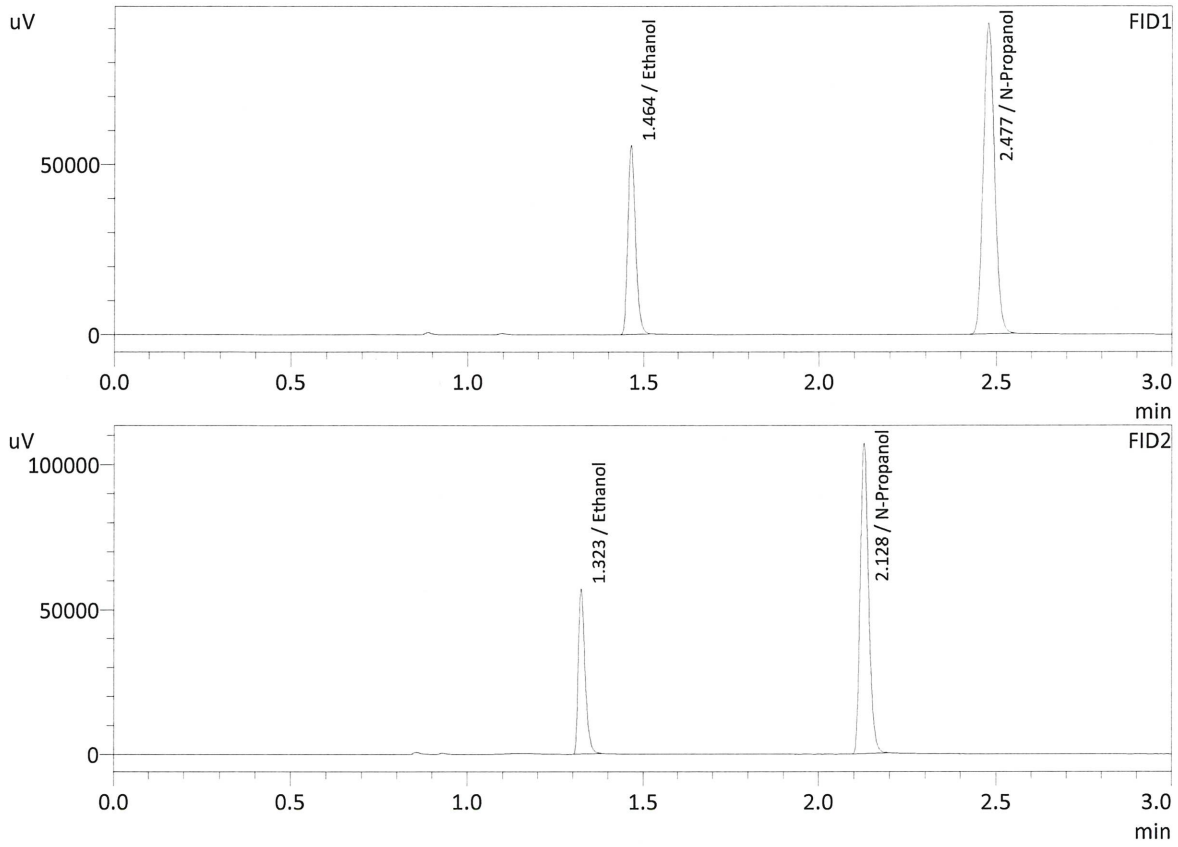
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0996	41660	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	202821	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0995	37005	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	179253	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JL

Sample Name : 0.200
Laboratory : Meridian
Injection Date : 6/14/2021 12:14:19 PM
Vial # : 3
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

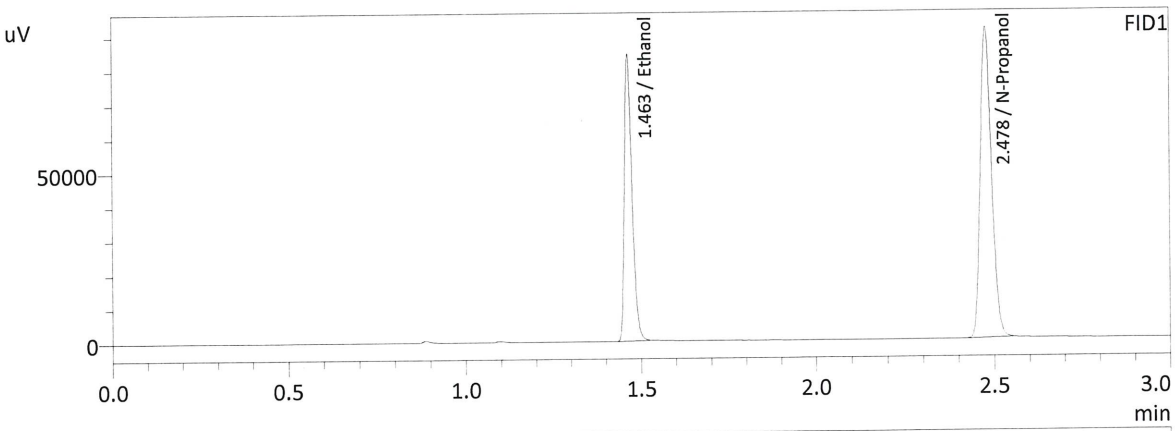
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1992	84564	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	199991	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

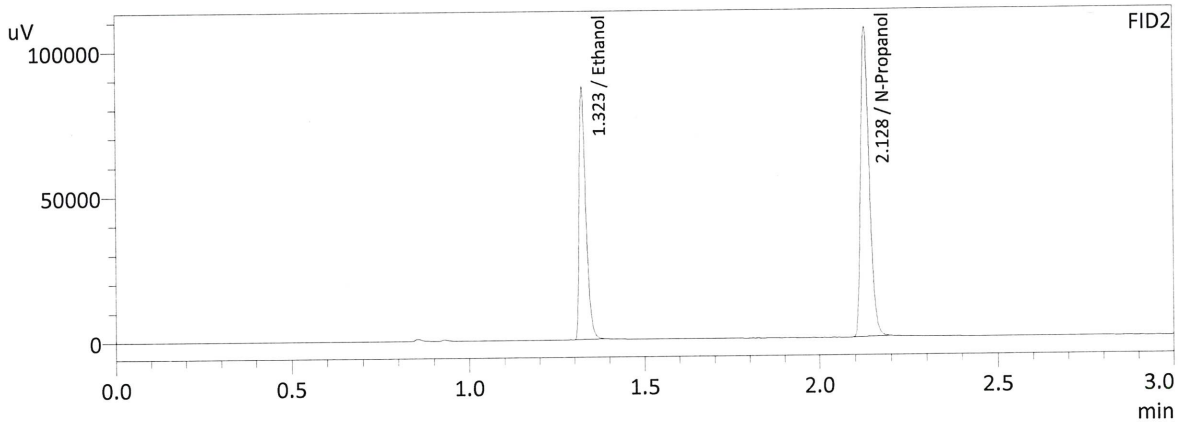
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1992	75570	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	176607	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JL

Sample Name : 0.300
Laboratory : Meridian
Injection Date : 6/14/2021 12:23:06 PM
Vial # : 4
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

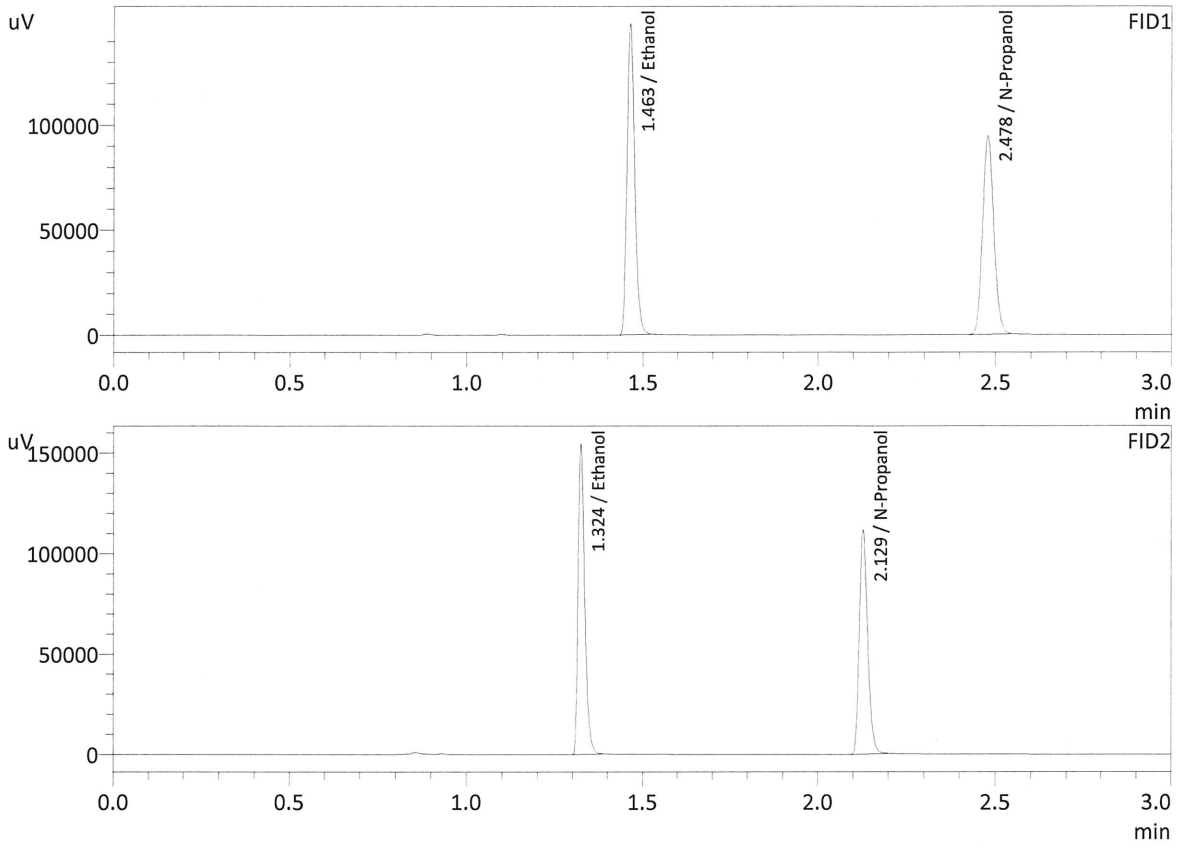
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2987	128031	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	200044	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2990	114898	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	176912	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : 0.500
Laboratory : Meridian
Injection Date : 6/14/2021 12:30:46 PM
Vial # : 5
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

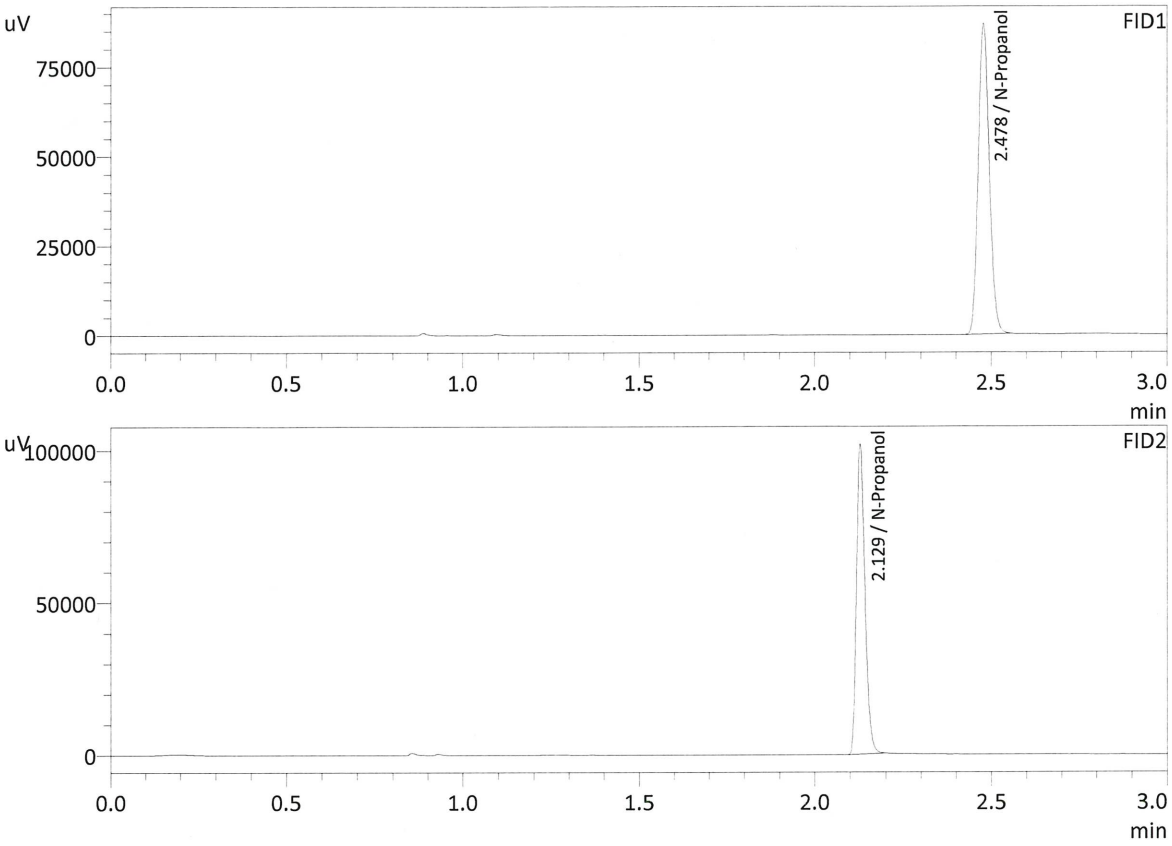
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5010	224793	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	207815	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5008	202009	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	184035	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : INT STD BLNK
Laboratory : Meridian
Injection Date : 6/14/2021 12:39:07 PM
Vial # : 6
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	190470	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	168135	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

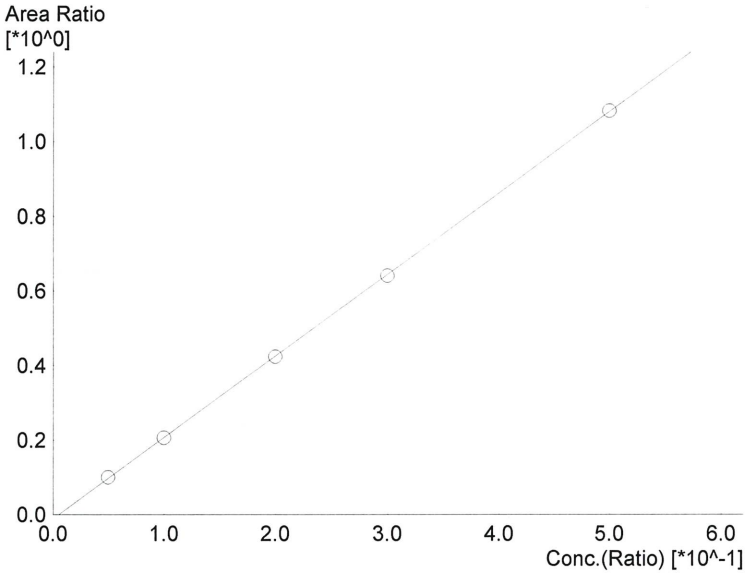
Calibration Table

Laboratory : MERIDIAN
Instrument Name : GC-HS
Instrument Serial # : C12595800409 / C12255750548

<<Data File>>
Method File :C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Batch File :C:\LabSolutions\Data\210614\CALIBRATION\CALCURVE_TEMPLATE.gcb
Date Acquired :6/14/2021 12:30:46 PM
Date Created :6/14/2021 12:26:14 PM
Date Modified :6/14/2021 12:33:48 PM

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

#	Conc.	Area	Std. Conc.



Name : Ethanol
Detector Name: FID1
Function : f(x)=2.18337*x-0.0121858
R^2 value= 0.9999588
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	20469	0.0513
2	0.100	41660	0.0996
3	0.200	84564	0.1992
4	0.300	128031	0.2987
5	0.500	224793	0.5010

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.

Not Ready

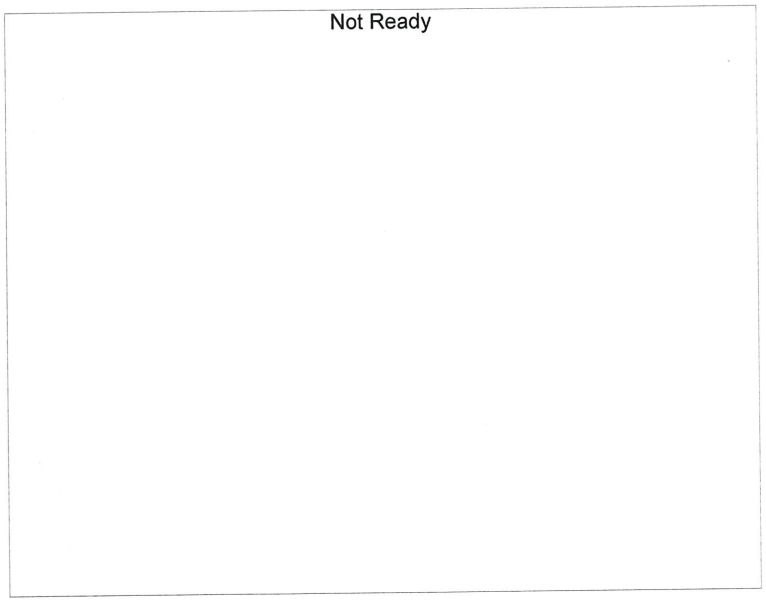
Name : Acetone
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.

Not Ready

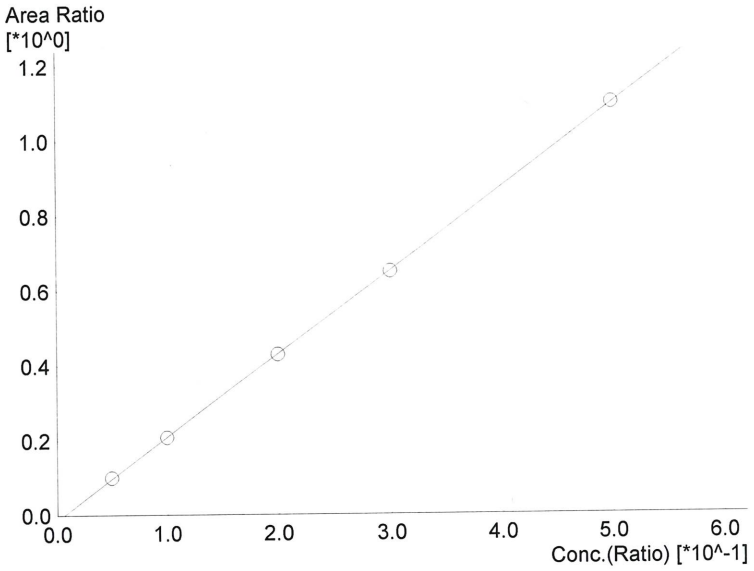
Name : Fluor. Hydrocarbon(s)
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



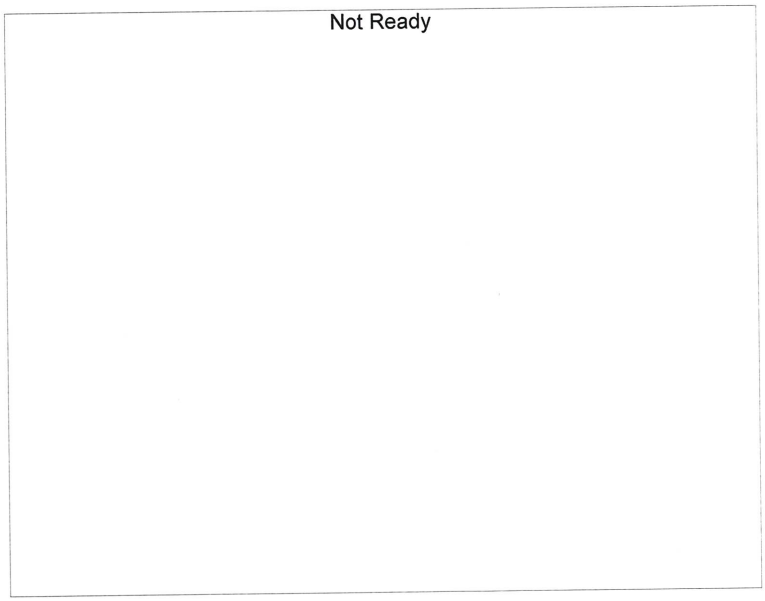
Name : Methanol
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



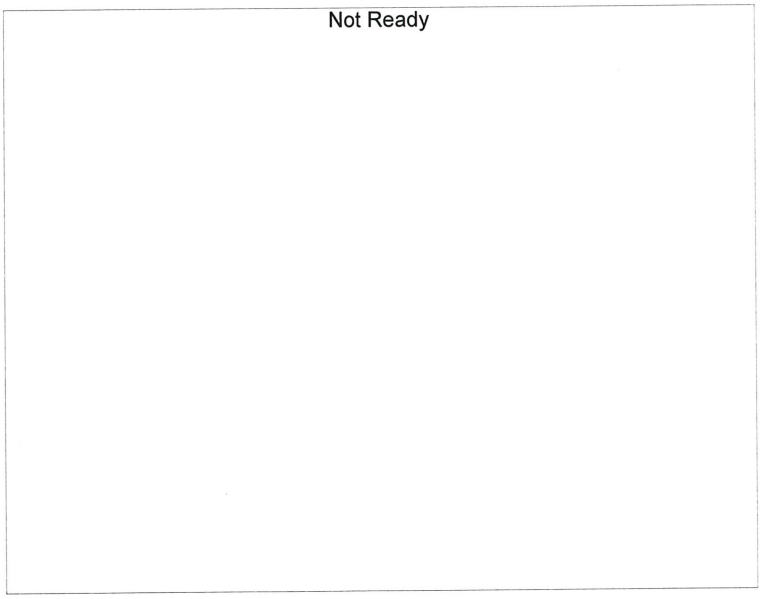
Name : Ethanol
Detector Name: FID2
Function : f(x)=2.22096*x-0.0146650
R^2 value= 0.9999679
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	17938	0.0513
2	0.100	37005	0.0995
3	0.200	75570	0.1992
4	0.300	114898	0.2990
5	0.500	202009	0.5008



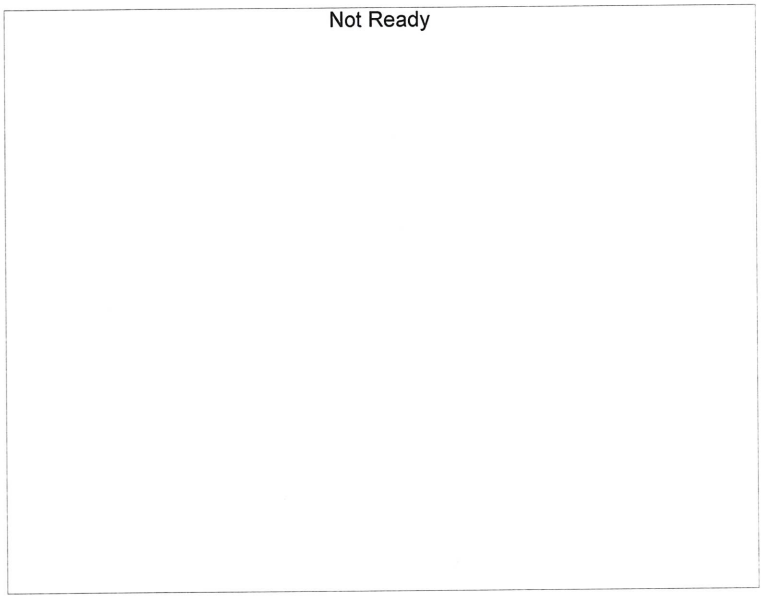
Name : Acetone
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



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.



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

#	Conc.	Area	Std. Conc.

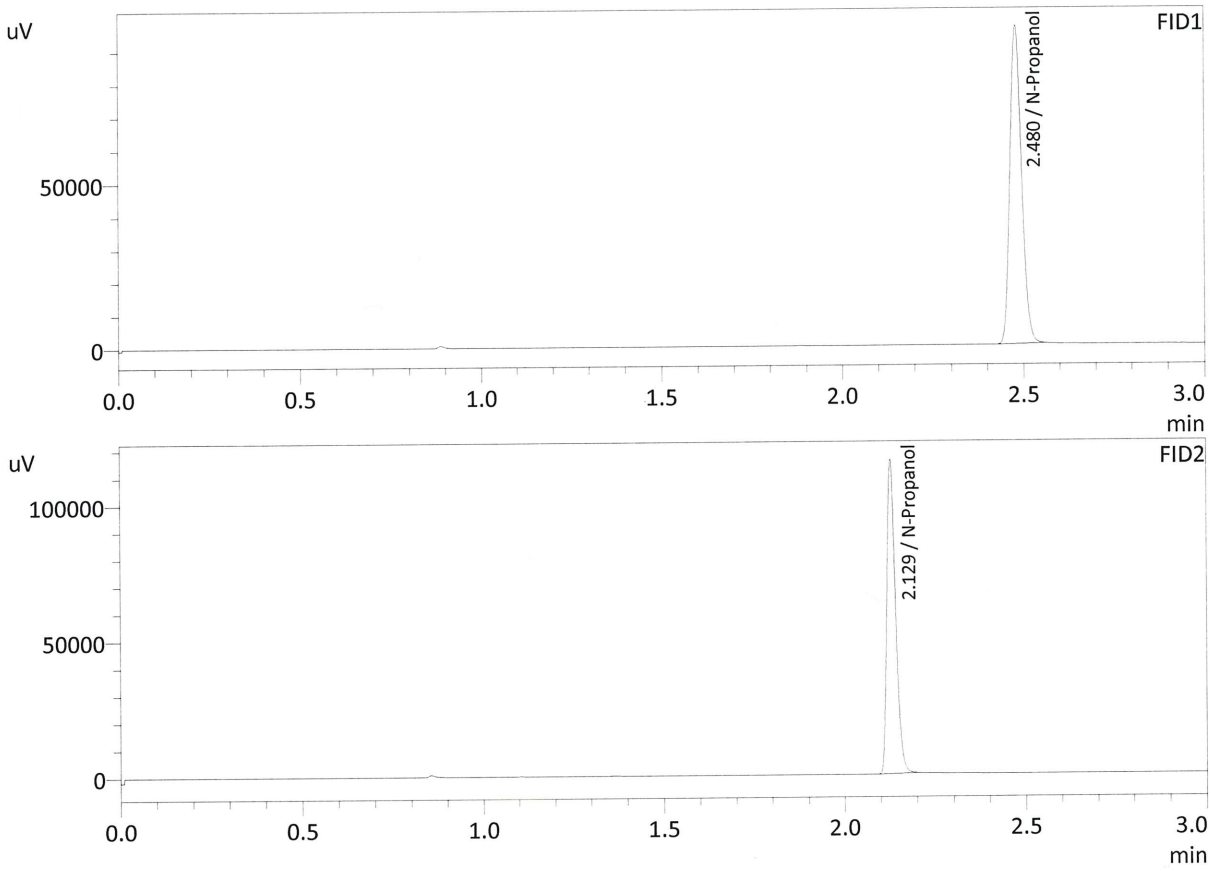
Meridian Blood Alcohol Analysis Batch Table

Shimadzu GC-2030 Serial #C12255750548
Shimadzu HS-20 Serial #C12595800409
Lab Solutions Software Ver. 5.99

Vial#	Sample Name	Sample Type	Level#	Method File
1	0.050	1:Standard:(I)	1	ALCOHOL.GCM
2	0.100	1:Standard	2	ALCOHOL.GCM
3	0.200	1:Standard	3	ALCOHOL.GCM
4	0.300	1:Standard	4	ALCOHOL.GCM
5	0.500	1:Standard	5	ALCOHOL.GCM
6	INT STD BLNK	0:Unknown	0	ALCOHOL.GCM

JG

Sample Name : INT STD BLK 1
Laboratory : Meridian
Injection Date : 6/24/2021 2:34:08 PM
Vial # : 1
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

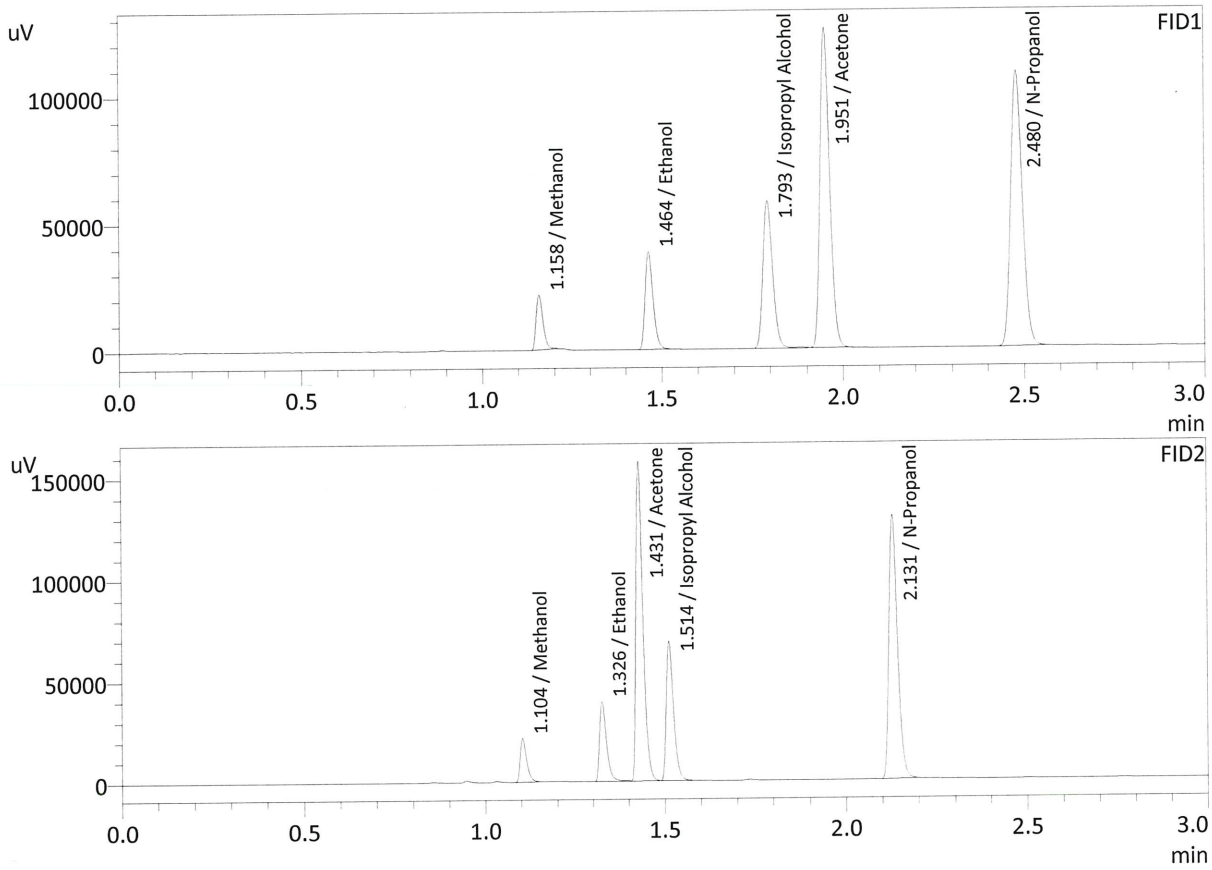
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	215554	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	190256	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

J6

Sample Name : MIXED VOLATILES FN 07101701
Laboratory : Meridian
Injection Date : 6/24/2021 2:41:27 PM
Vial # : 2
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	0.0000	28469	g/100cc
Ethanol	0.1167	58508	g/100cc
Isopropyl Alcohol	0.0000	107704	g/100cc
Acetone	0.0000	233066	g/100cc
N-Propanol	0.0000	241112	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	0.0000	26992	g/100cc
Ethanol	0.1191	53233	g/100cc
Acetone	0.0000	211906	g/100cc
Isopropyl Alcohol	0.0000	96136	g/100cc
N-Propanol	0.0000	213032	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

J6

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 6/24/21**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0743	0.0738	0.0005	0.0740	0.0009	0.0744
(g/100cc)	0.0749	0.0749	0.0000	0.0749		

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

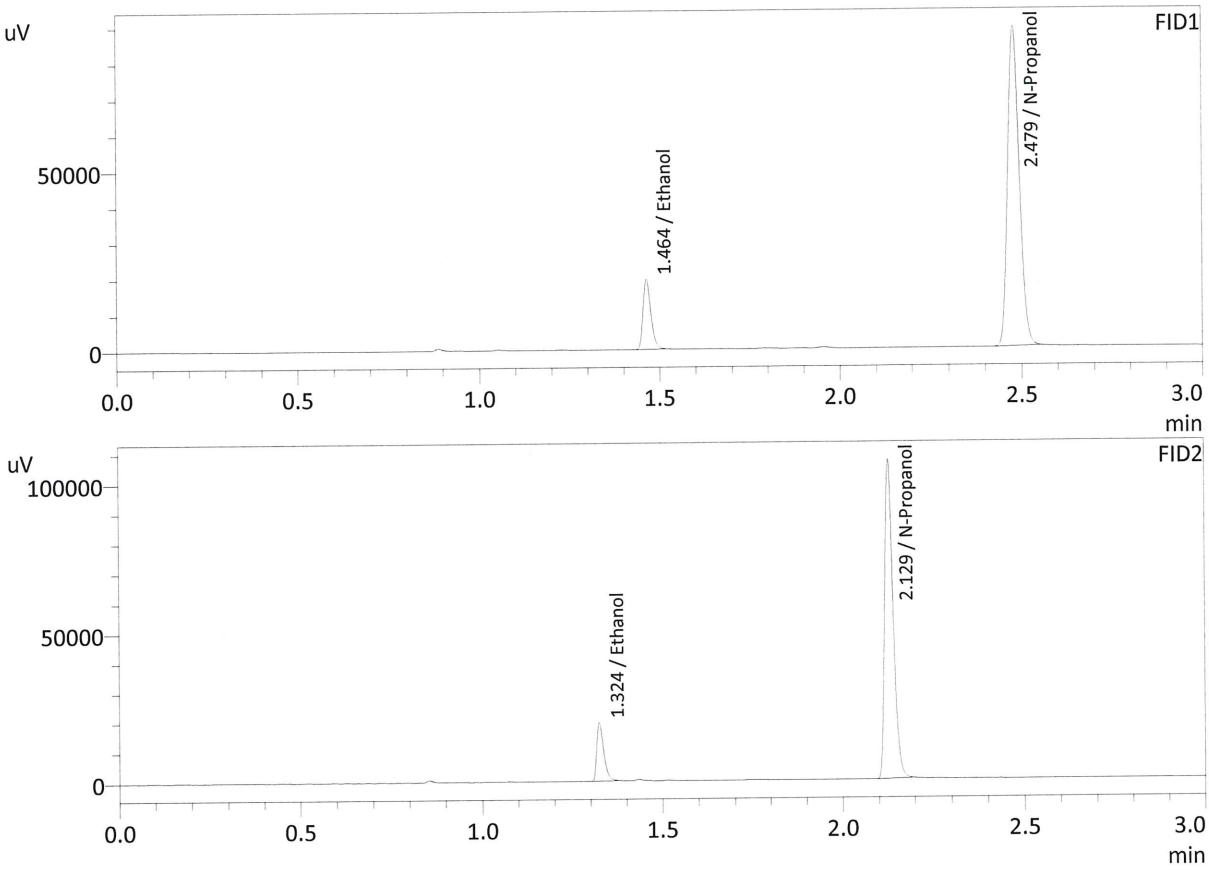
Reporting of Results **Uncertainty of Measurement (UM%): 5.00%**

Overall Mean (g/100cc)	Low	High	5% of Mean
0.074	**0.070**	**0.078**	**0.004**

	Reported Result	
	0.074	

Calibration and control data are stored centrally.

Sample Name : QC-1-1-A
Laboratory : Meridian
Injection Date : 6/24/2021 2:48:53 PM
Vial # : 3
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



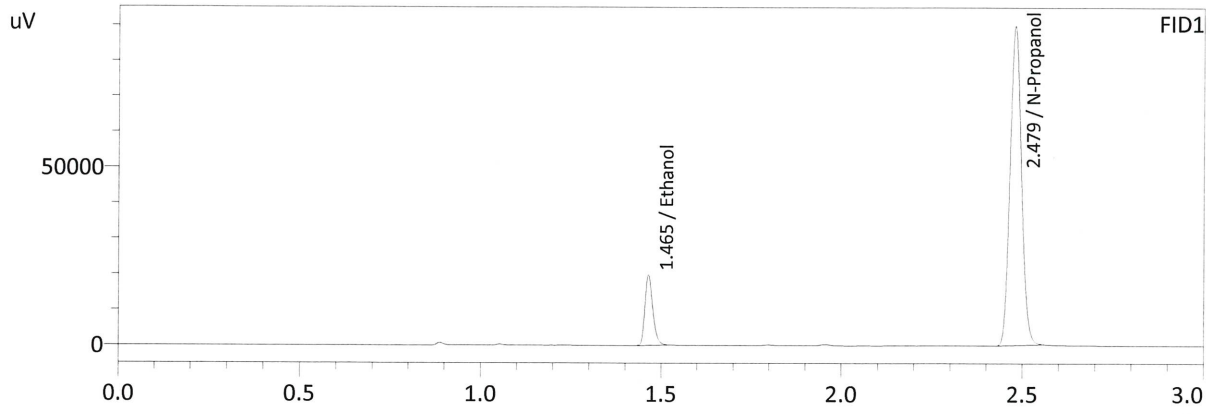
FID1

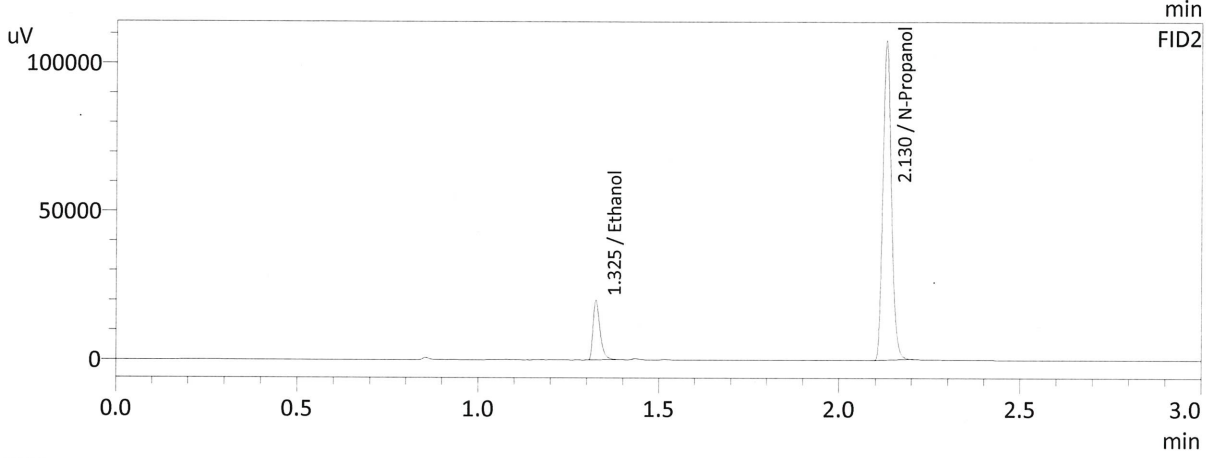
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0743	29793	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	198559	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0738	26293	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	176071	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : QC-1-1-B
Laboratory : Meridian
Injection Date : 6/24/2021 2:57:51 PM
Vial # : 4
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0749	30437	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	200973	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0749	26986	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	177680	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

J6

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 QA **Analysis Date(s): 6/24/21**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0829	0.0832	0.0003	0.0830	0.0007	0.0834
(g/100cc)	0.0837	0.0838	0.0001	0.0837		

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

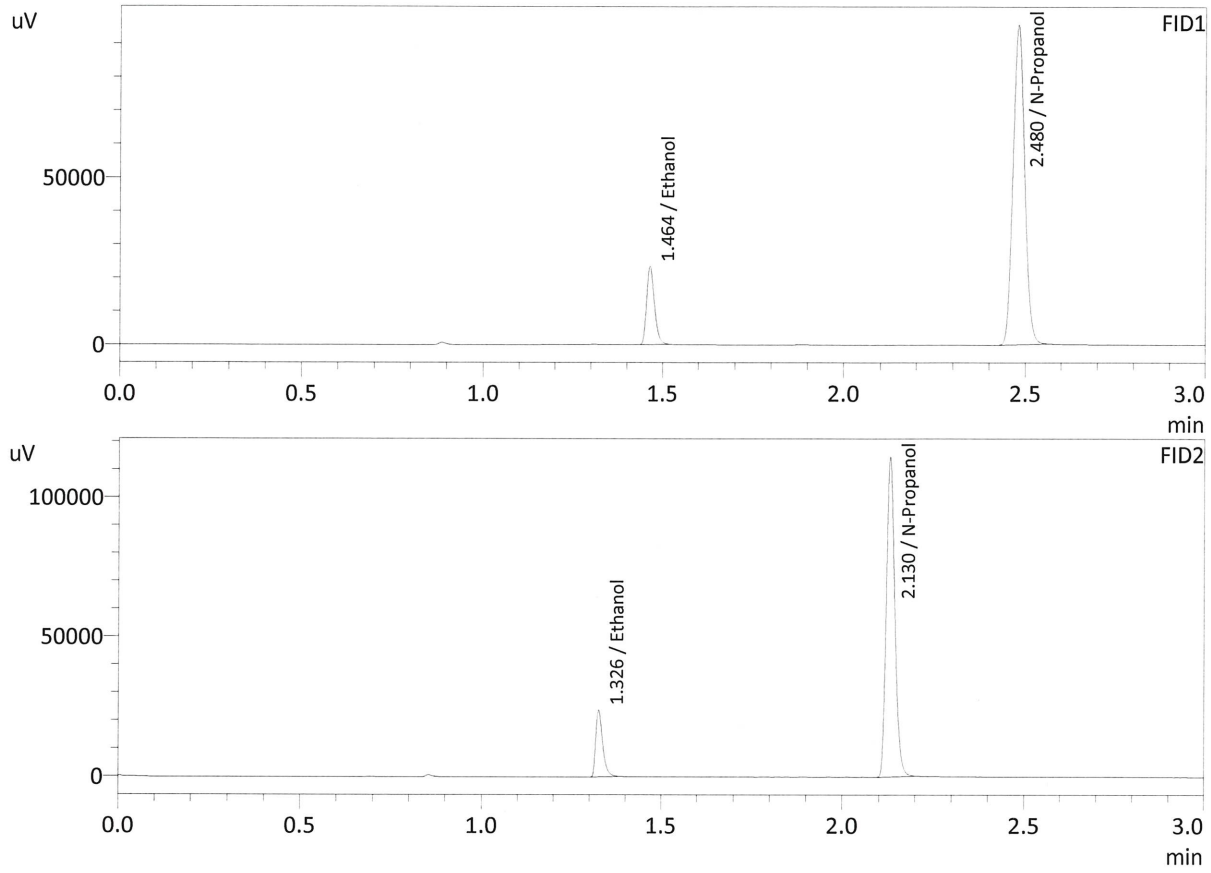
Reporting of Results **Uncertainty of Measurement (UM%): 5.00%**

Overall Mean (g/100cc)	Low	High	5% of Mean
0.083	0.078	0.088	0.005

Reported Result
0.083

Calibration and control data are stored centrally.

Sample Name : 0.08 QA-A
Laboratory : Meridian
Injection Date : 6/24/2021 3:06:22 PM
Vial # : 5
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

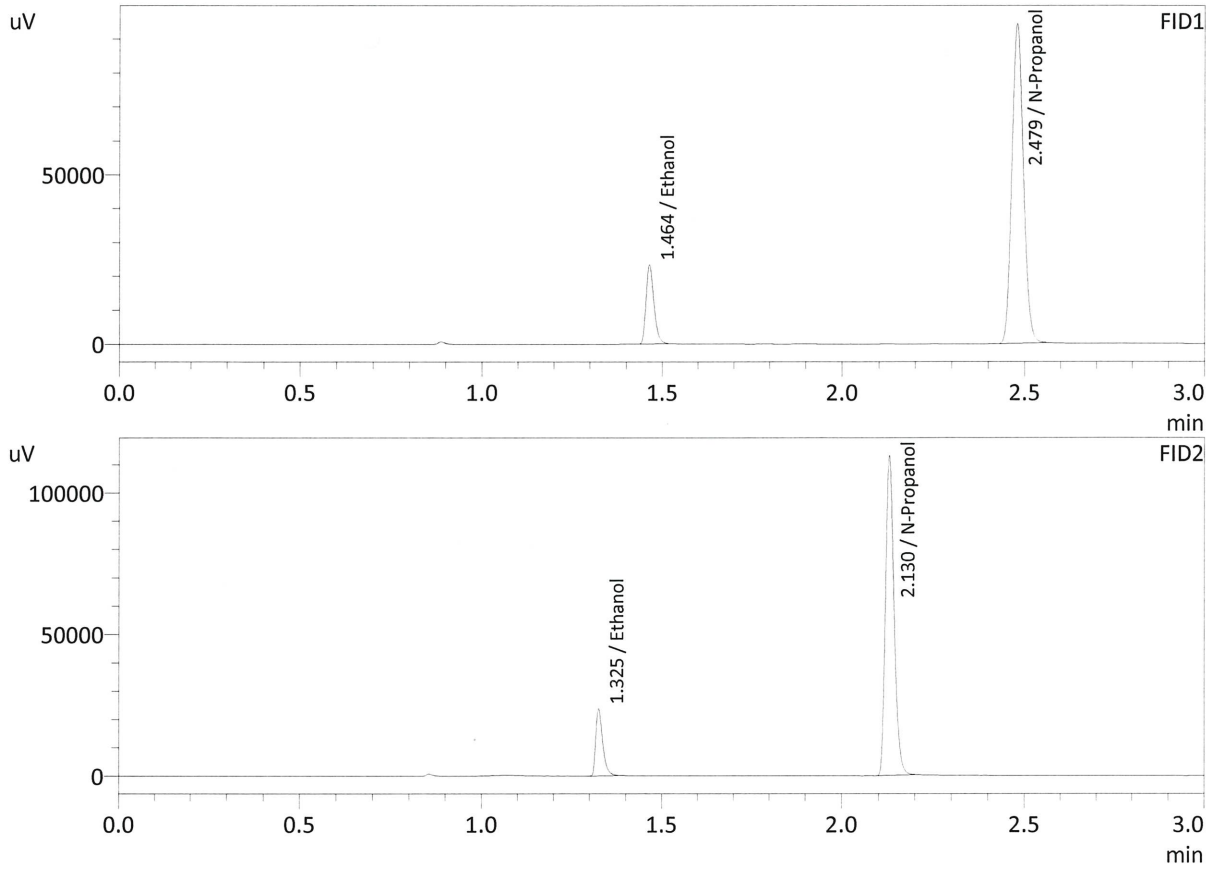
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0829	36025	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	213324	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0832	32152	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	188789	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : 0.08 QA-B
Laboratory : Meridian
Injection Date : 6/24/2021 3:13:50 PM
Vial # : 6
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0837	35823	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	210024	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0838	31907	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	185896	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 6/24/21**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2072	0.2078	0.0006	0.2075	0.0009	0.2079
(g/100cc)	0.2083	0.2086	0.0003	0.2084		

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%**

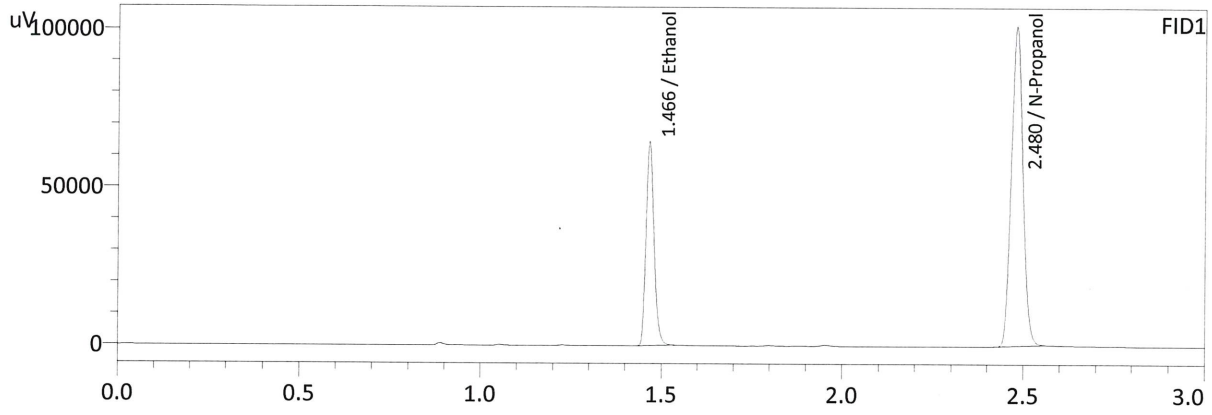
Overall Mean (g/100cc)	Low	High	5% of Mean
0.207	**0.196**	**0.218**	**0.011**

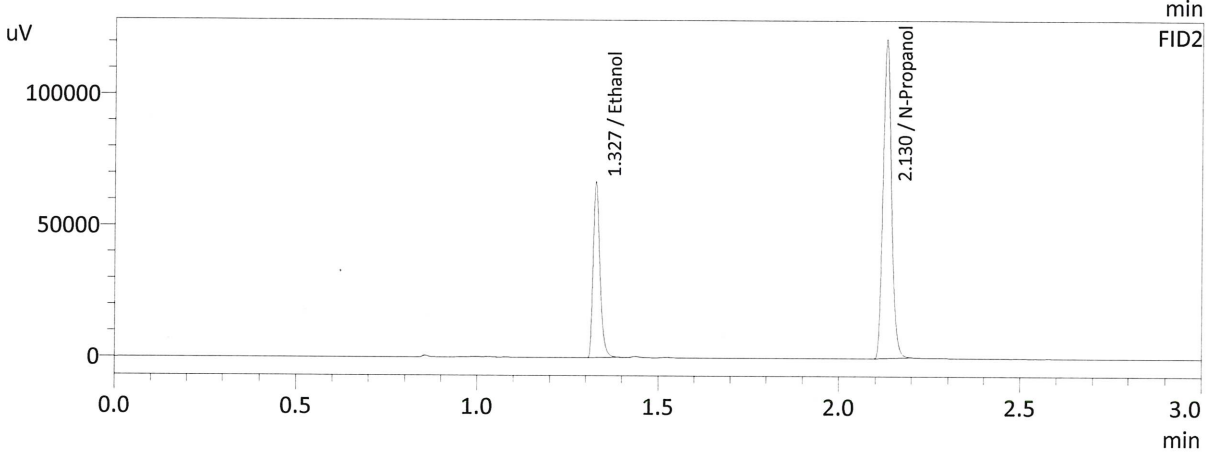
Reported Result

0.207

Calibration and control data are stored centrally.

Sample Name : QC-2-1-A
Laboratory : Meridian
Injection Date : 6/24/2021 5:46:30 PM
Vial # : 25
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

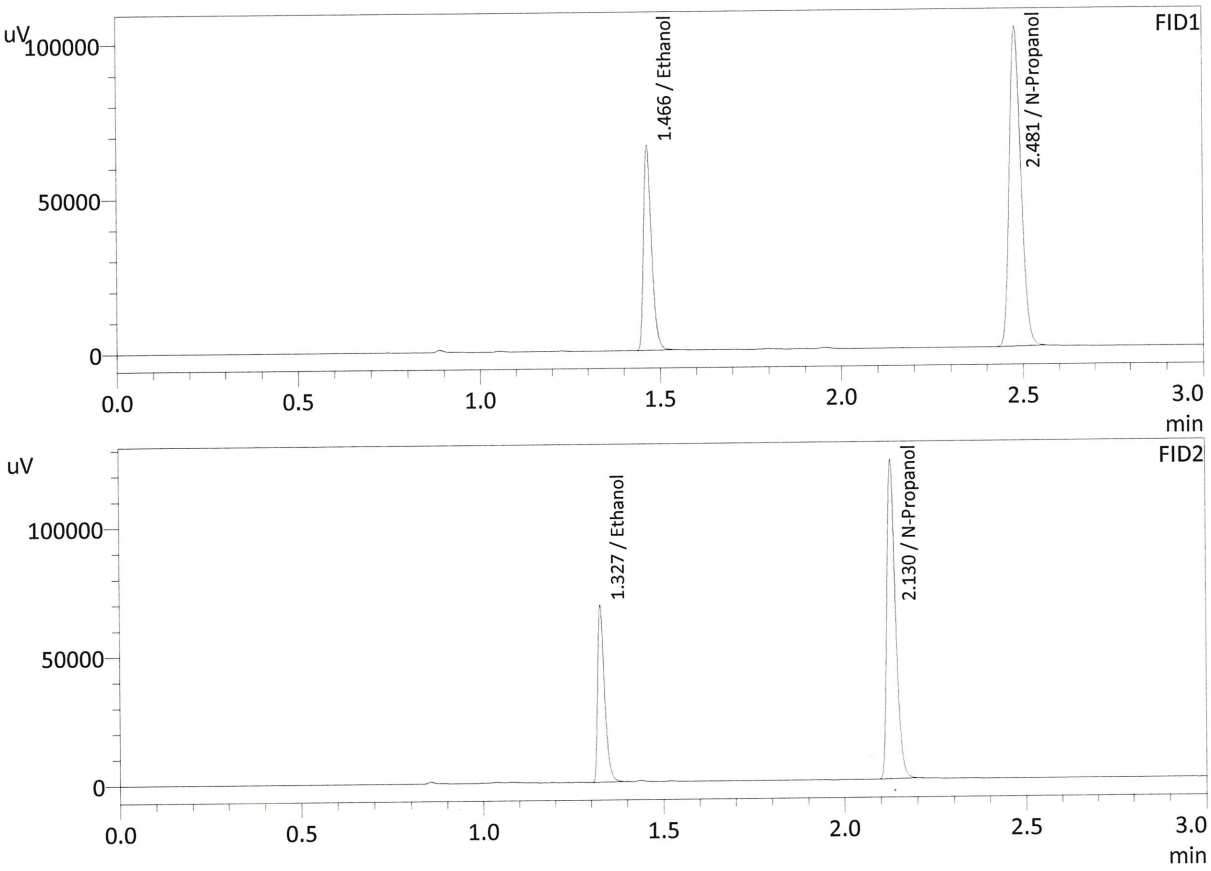
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2072	99125	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	225089	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2078	89116	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	199388	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : QC-2-1-B
Laboratory : Meridian
Injection Date : 6/24/2021 5:53:57 PM
Vial # : 26
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2083	101738	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	229852	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2086	91380	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	203625	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Analysis Date(s): 6/24/21**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0771	0.0773	0.0002	0.0772	0.0007	0.0768
(g/100cc)	0.0764	0.0767	0.0003	0.0765		

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
0.076	**0.072**	**0.080**	**0.004**

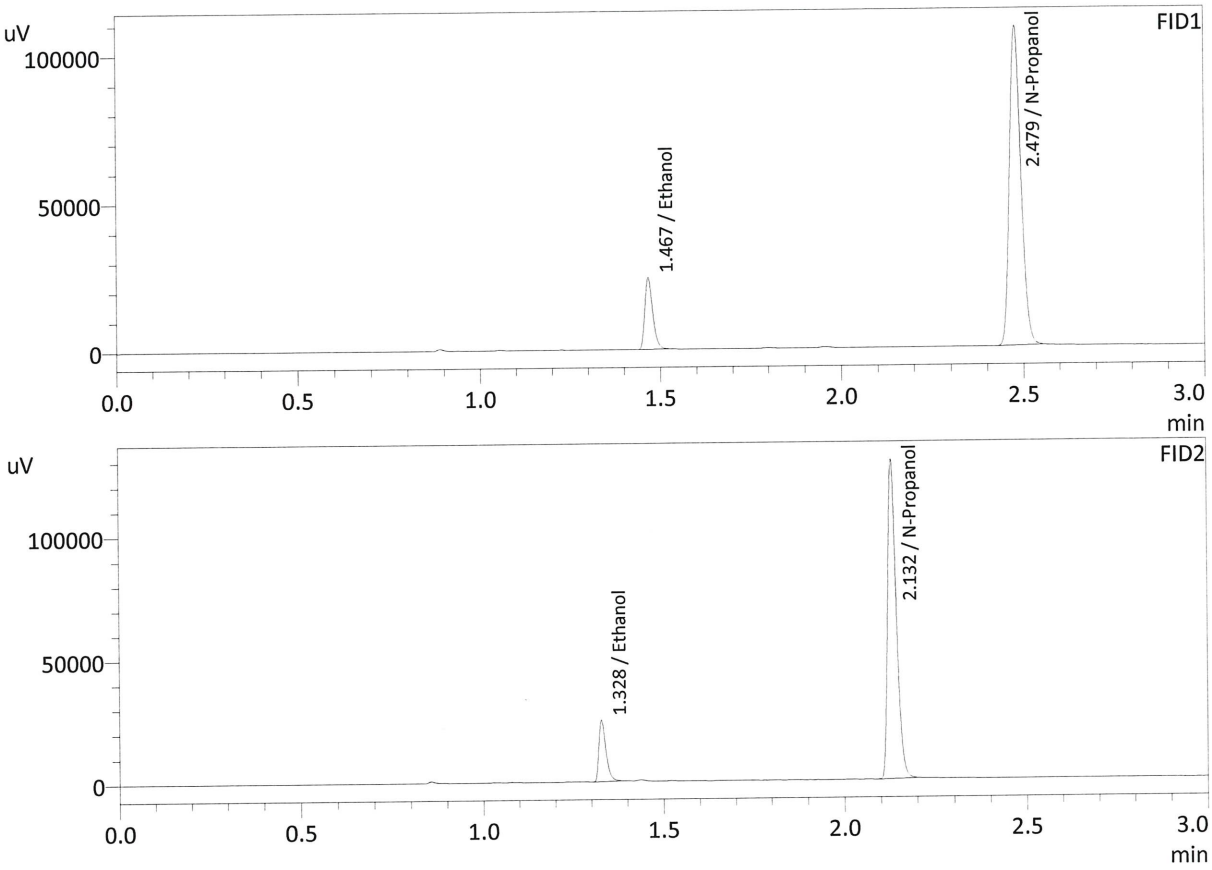
Reported Result

0.076

Calibration and control data are stored centrally.

Revision: 3
Issue Date: 12/28/2020
Issuing Authority: Quality Manager

Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : 6/24/2021 8:41:01 PM
Vial # : 47
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

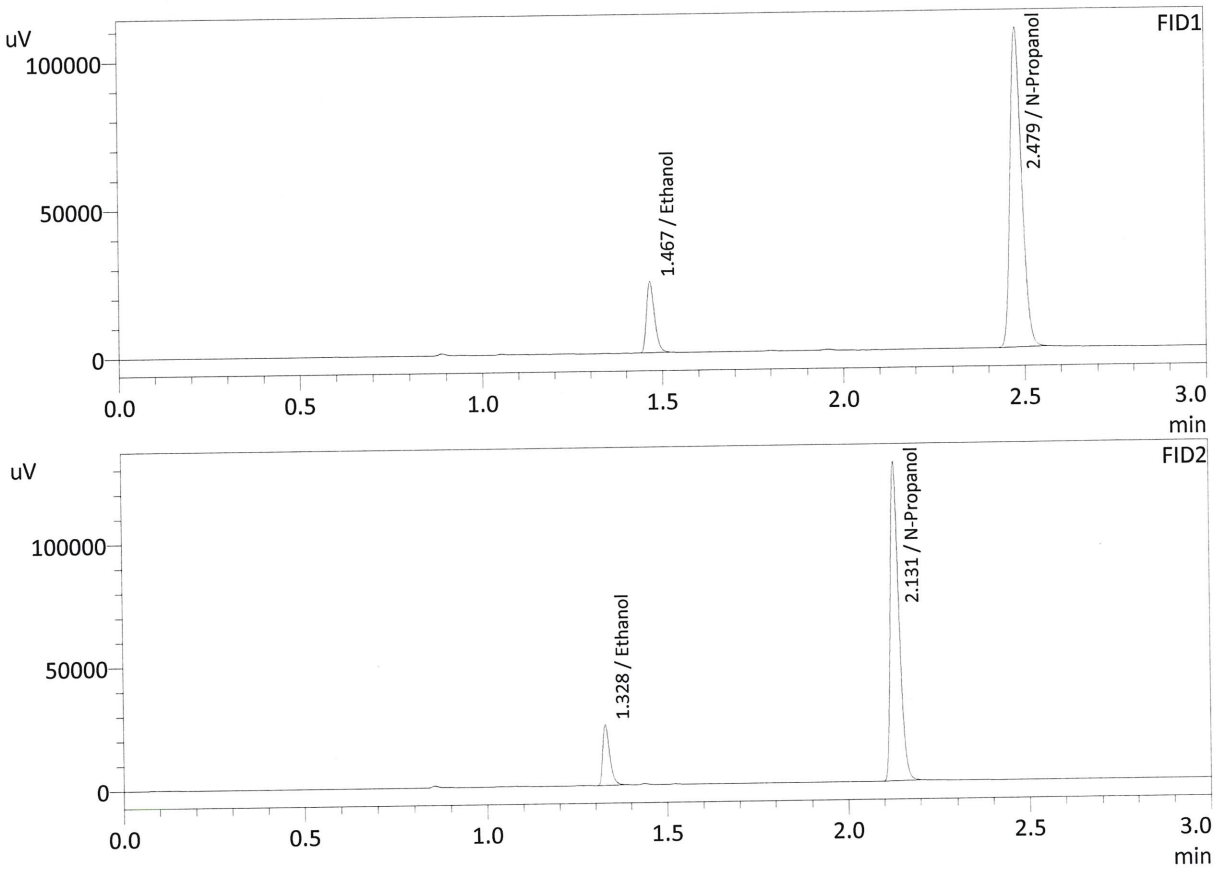
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0771	37417	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	239515	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0773	33400	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	212462	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : 6/24/2021 8:50:08 PM
Vial # : 48
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0764	37109	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	239732	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0767	33159	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	212902	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-2 **Analysis Date(s): 6/24/21**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2078	0.2078	0.0000	0.2078	0.0025	0.2090
(g/100cc)	0.2103	0.2104	0.0001	0.2103		

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

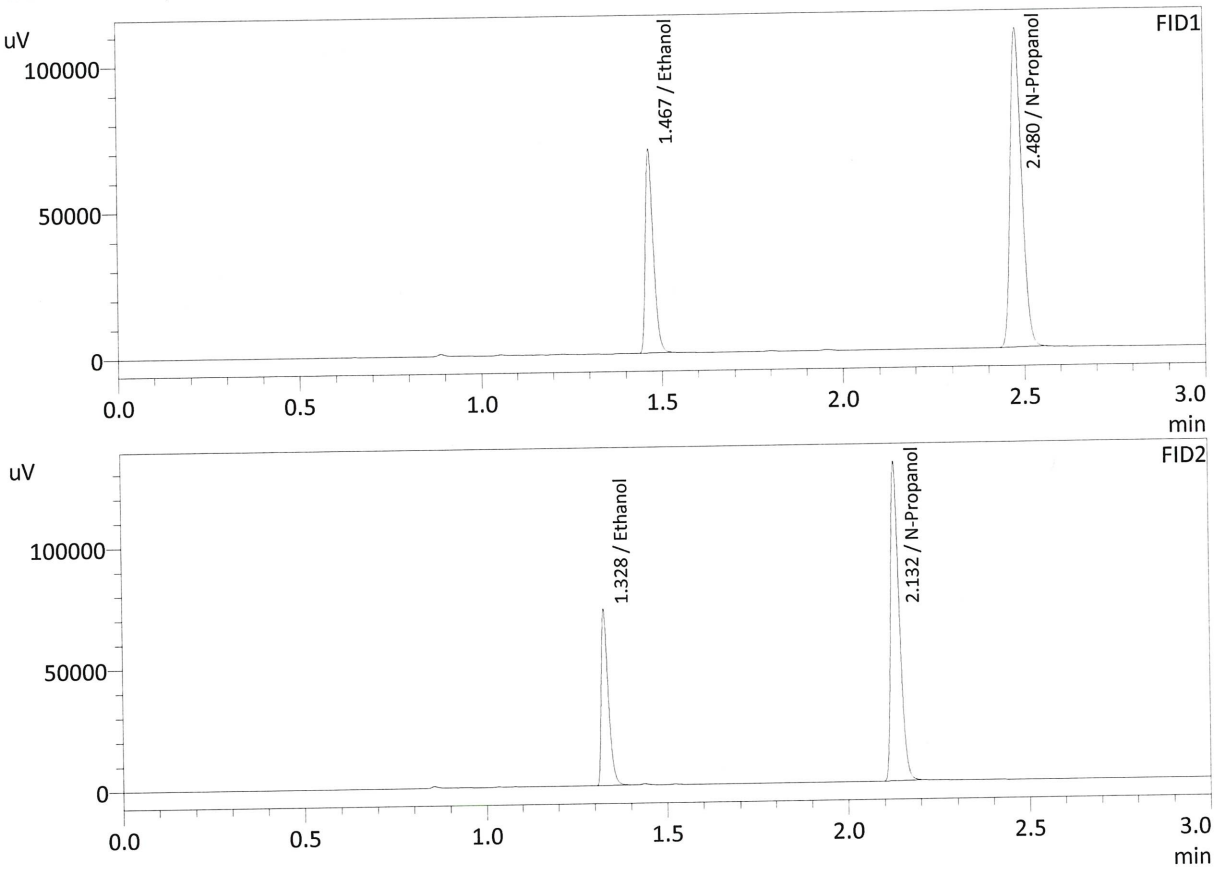
Reporting of Results **Uncertainty of Measurement (UM%): 5.00%**

Overall Mean (g/100cc)	Low	High	5% of Mean
0.209	0.198	0.220	0.011

	Reported Result	
	0.209	

Calibration and control data are stored centrally.

Sample Name : QC2-2-A
Laboratory : Meridian
Injection Date : 6/24/2021 9:13:49 PM
Vial # : 51
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

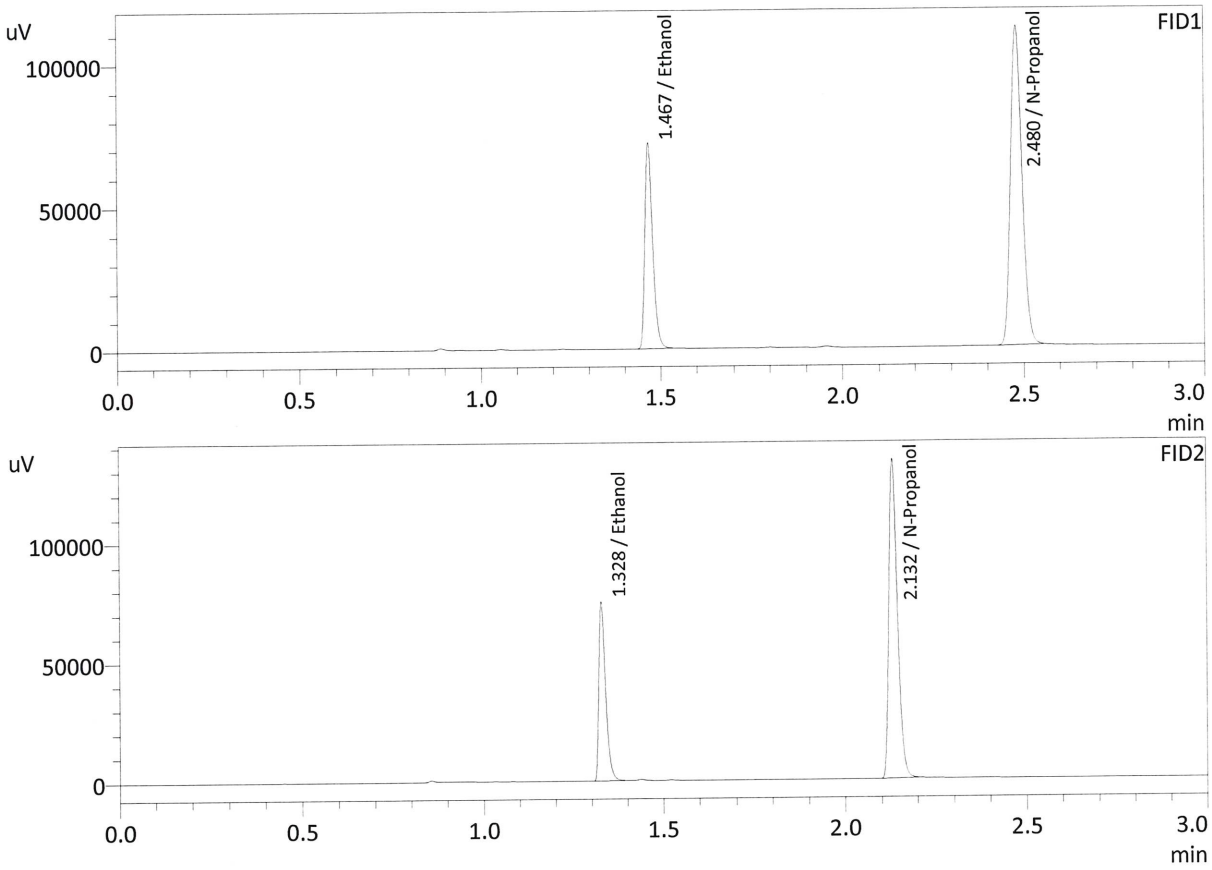
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2078	107321	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	243034	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2078	96528	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	215926	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : QC2-2-B
Laboratory : Meridian
Injection Date : 6/24/2021 9:21:24 PM
Vial # : 52
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

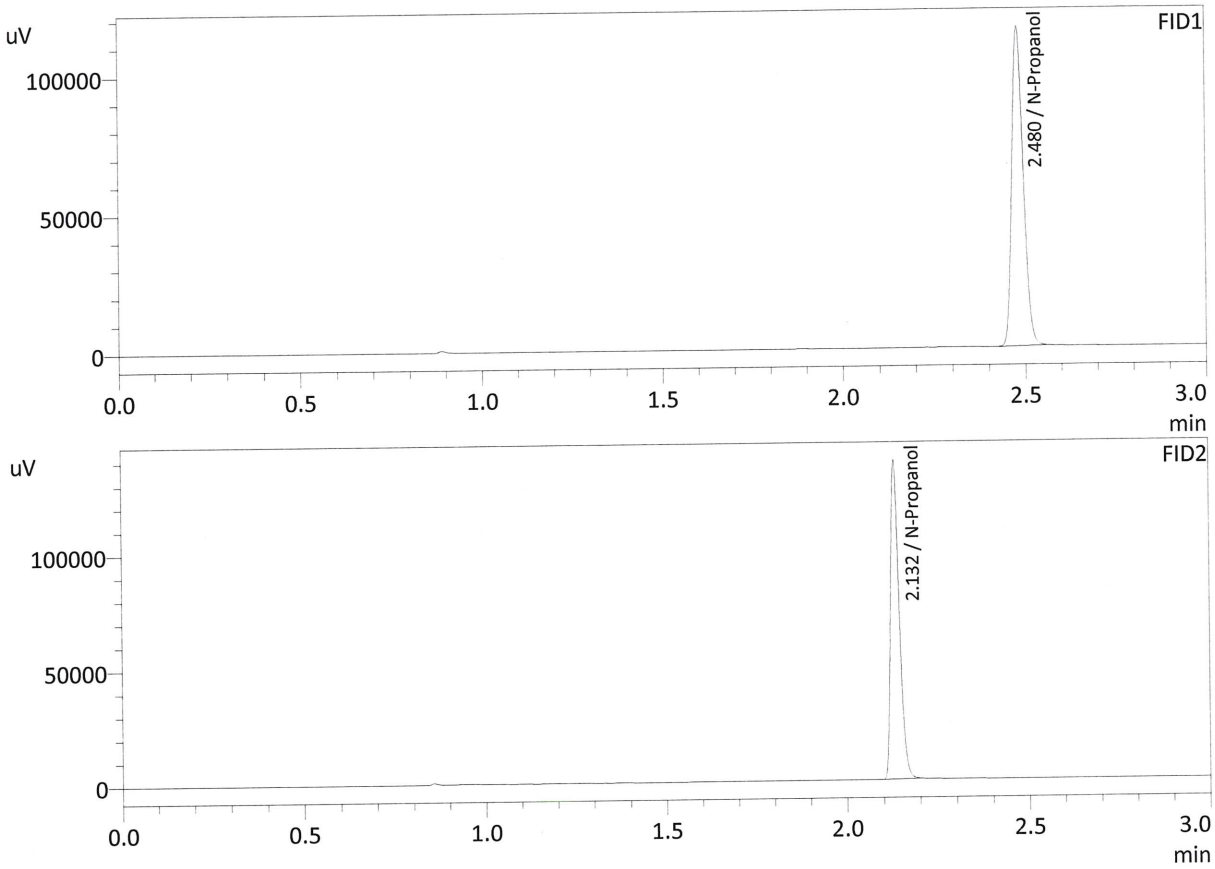
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2103	110577	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	247376	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2104	99519	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	219837	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : INT STD BLNK
Laboratory : Meridian
Injection Date : 6/24/2021 9:29:00 PM
Vial # : 53
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	255784	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	227509	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Meridian Blood Alcohol Analysis Batch Table

Shimadzu GC-2030 Serial #C12255750548
Shimadzu HS-20 Serial #C12595800409
Lab Solutions Software Ver. 5.99

Vial#	Sample Name	Method File
1	INT STD BLK 1	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
2	ED VOLATILES FN 0710	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
3	QC-1-1-A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
4	QC-1-1-B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
5	0.08 QA-A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
6	0.08 QA-B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
7	M2021-2376-4A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
8	M2021-2376-4B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
9	M2021-2646-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
10	M2021-2646-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
11	M2021-2649-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
12	M2021-2649-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
13	M2021-2652-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
14	M2021-2652-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
15	M2021-2653-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
16	M2021-2653-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
17	M2021-2654-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
18	M2021-2654-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
19	M2021-2655-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
20	M2021-2655-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
21	M2021-2656-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
22	M2021-2656-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
23	M2021-2657-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
24	M2021-2657-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
25	QC-2-1-A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
26	QC-2-1-B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
27	M2021-2666-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
28	M2021-2666-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
29	M2021-2677-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
30	M2021-2677-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
31	M2021-2691-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
32	M2021-2691-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
33	M2021-2698-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
34	M2021-2698-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
35	M2021-2705-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
36	M2021-2705-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
37	M2021-2706-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
38	M2021-2706-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
39	M2021-2707-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
40	M2021-2707-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
41	M2021-2732-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
42	M2021-2732-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
43	M2021-2733-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
44	M2021-2733-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
45	M2021-2760-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
46	M2021-2760-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
47	QC1-2-A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
48	QC1-2-B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
49	M2021-2772-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
50	M2021-2772-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
51	QC2-2-A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
52	QC2-2-B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
53	INT STD BLNK	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM

JG