REVIEWED
By Jeremy Johnston at 3:18 pm, Jun 15, 2021

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): 6/14/21**

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-21	1907006	0.0764	0.0688-0.0840	0.0752 g/100cc
					0.0780 g/100cc
					g/100cc
Level 2	Jul-21	1907707	0.2170	0.2062-0.2278	0.2122 g/100cc
					0.2151 g/100cc
					g/100cc

Multi-Component mixture:		Lot #	FN07101701	
Curve Fit:	Column 1	0.99996	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	0.0001	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	0.082 g/100cc

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

Print Date: 6/14/2021

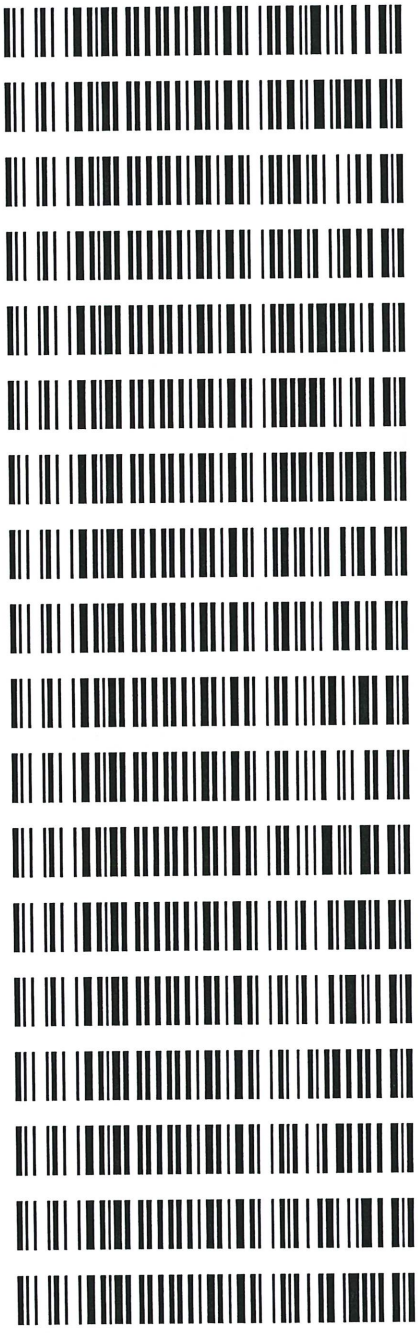
PRIORITY	DATE ASSIGNED TO SECTION	LAB CASE	AGENCY CASE	SECTION	STATUS	ANALYST	ITEMS
2	06/03/2021	M2021-2472	21E780	BATS	1 Assigned to Analyst	JTG	1
2	06/03/2021	M2021-2473	21E601	BATS	1 Assigned to Analyst	JTG	1
2	06/03/2021	M2021-2483	B21001617	BATS	1 Assigned to Analyst	JTG	1
2	06/03/2021	M2021-2484	B21001606	BATS	1 Assigned to Analyst	JTG	1
2	06/04/2021	M2021-2495	2021DR109606	BATS	1 Assigned to Analyst	JTG	1
2	06/07/2021	M2021-2508	2021DR109746	BATS	1 Assigned to Analyst	JTG	1
2	06/07/2021	M2021-2509	2021DR109683	BATS	1 Assigned to Analyst	JTG	1
2	06/08/2021	M2021-2520	21-0784	BATS	1 Assigned to Analyst	JTG	1
2	06/08/2021	M2021-2521	21-0524	BATS	1 Assigned to Analyst	JTG	1
2	06/09/2021	M2021-2540	C21-16862	BATS	1 Assigned to Analyst	JTG	1
2	06/09/2021	M2021-2545	C21-17915	BATS	1 Assigned to Analyst	JTG	1
2	06/09/2021	M2021-2546	2021-01211	BATS	1 Assigned to Analyst	JTG	1
2	06/10/2021	M2021-2597	N21-37036	BATS	1 Assigned to Analyst	JTG	1
2	06/10/2021	M2021-2598	N21-38157	BATS	1 Assigned to Analyst	JTG	1
2	06/10/2021	M2021-2619	21012157	BATS	1 Assigned to Analyst	JTG	1
2	06/10/2021	M2021-2630	2021DR004793	BATS	1 Assigned to Analyst	JTG	1
2	06/10/2021	M2021-2635	B21001656	BATS	1 Assigned to Analyst	JTG	1
2	06/10/2021	M2021-2636	B21001711	BATS	1 Assigned to Analyst	JTG	1

JC

6/15/2021

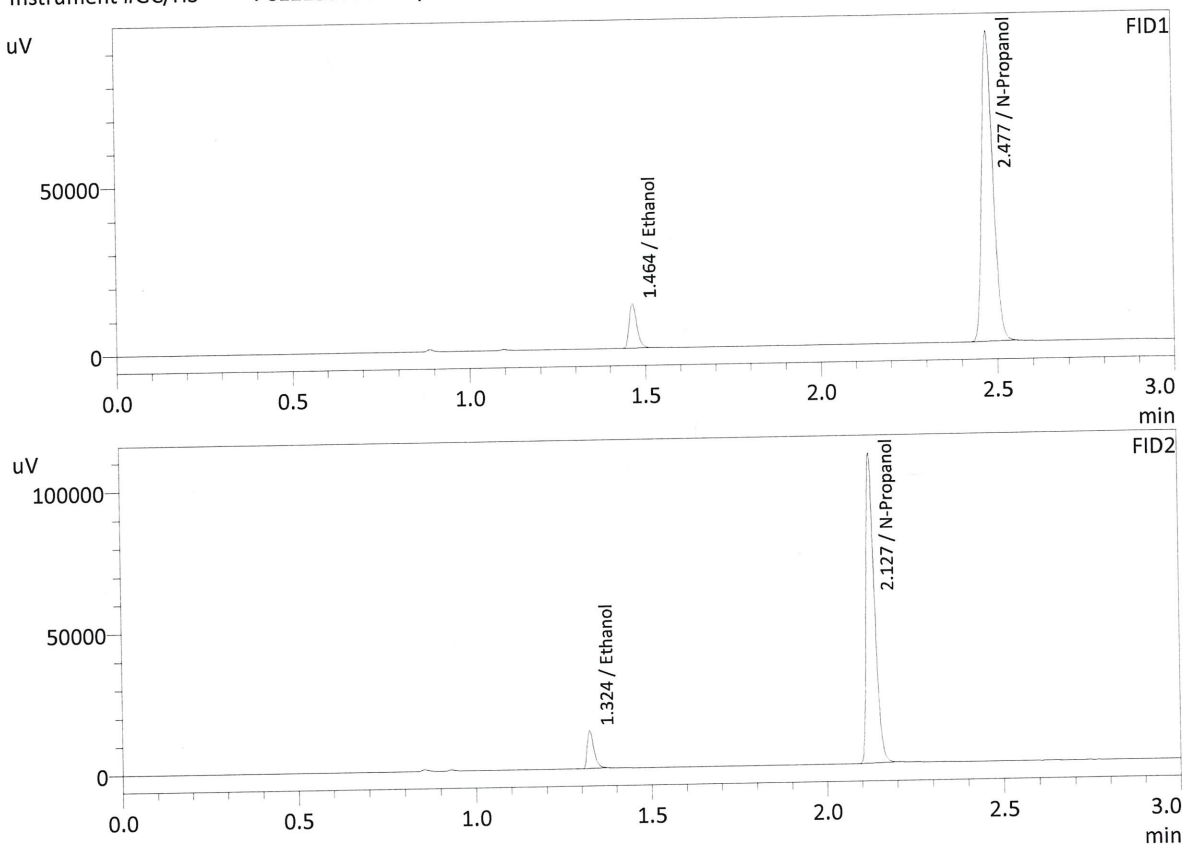
Worklist: 5050

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2021-2472	1	BCK	Alcohol Analysis
M2021-2473	1	BCK	Alcohol Analysis
M2021-2483	1	BCK	Alcohol Analysis
M2021-2484	1	BCK	Alcohol Analysis
M2021-2495	1	BCK	Alcohol Analysis
M2021-2508	1	BCK	Alcohol Analysis
M2021-2509	1	BCK	Alcohol Analysis
M2021-2520	1	BCK	Alcohol Analysis
M2021-2521	1	BCK	Alcohol Analysis
M2021-2540	1	BCK	Alcohol Analysis
M2021-2545	1	BCK	Alcohol Analysis
M2021-2546	1	BCK	Alcohol Analysis
M2021-2597	1	BCK	Alcohol Analysis
M2021-2598	1	BCK	Alcohol Analysis
M2021-2619	1	BCK	Alcohol Analysis
M2021-2630	1	BCK	Alcohol Analysis
M2021-2635	1	BCK	Alcohol Analysis
M2021-2636	1	BCK	Alcohol Analysis



JL

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

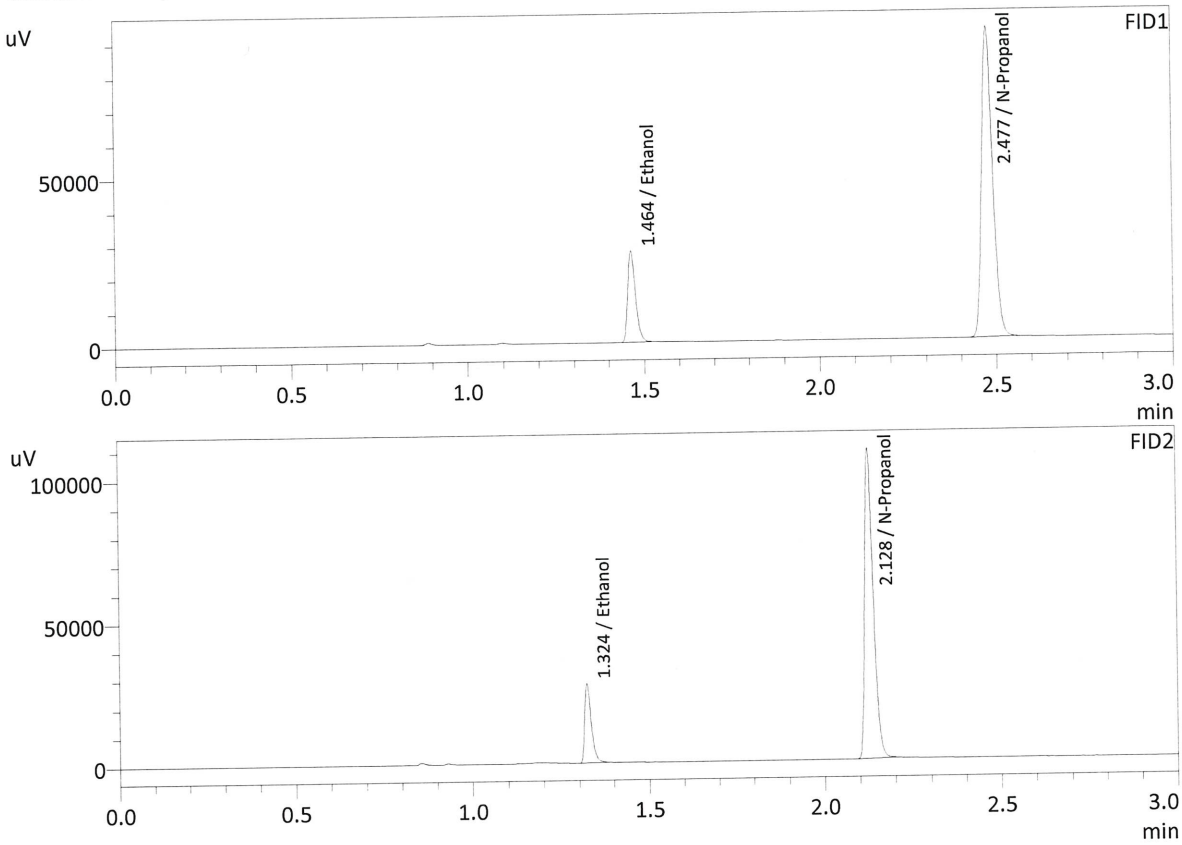
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0513	20469	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	204690	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

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

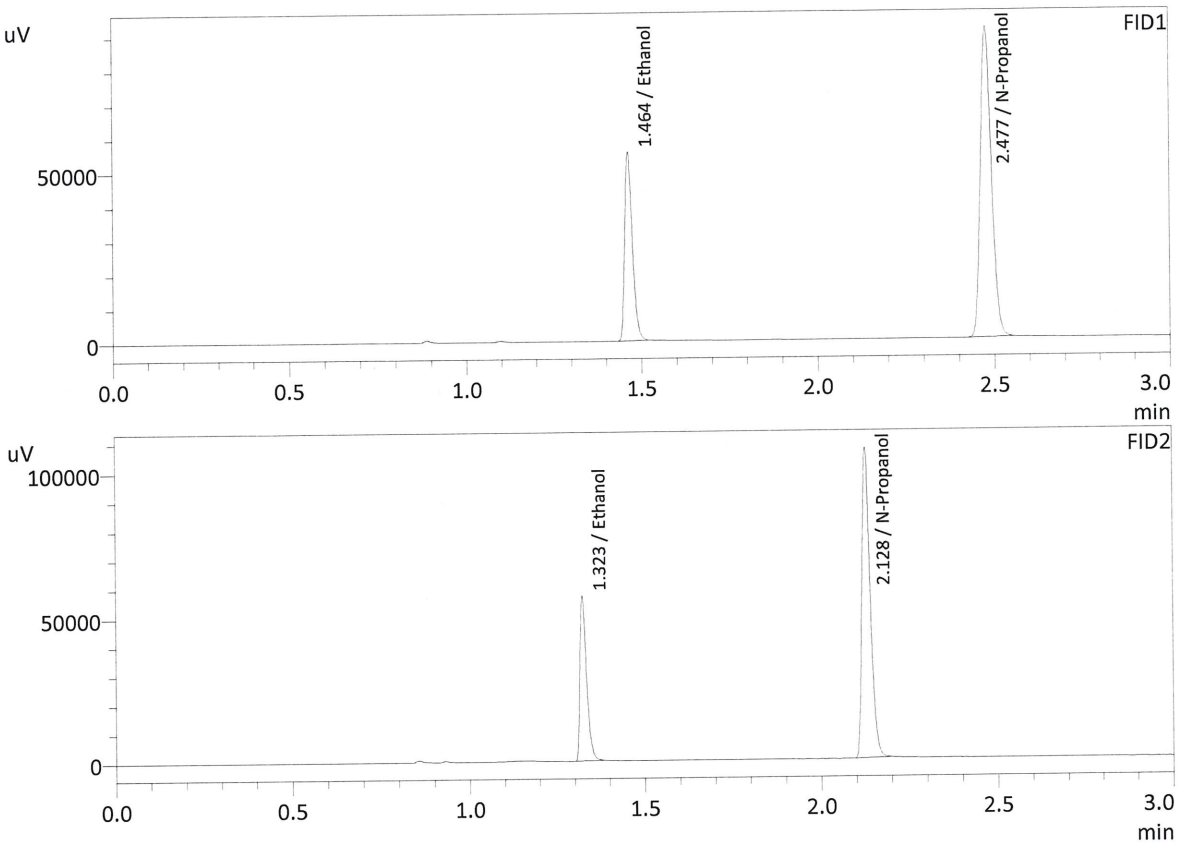
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0996	41660	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	202821	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

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

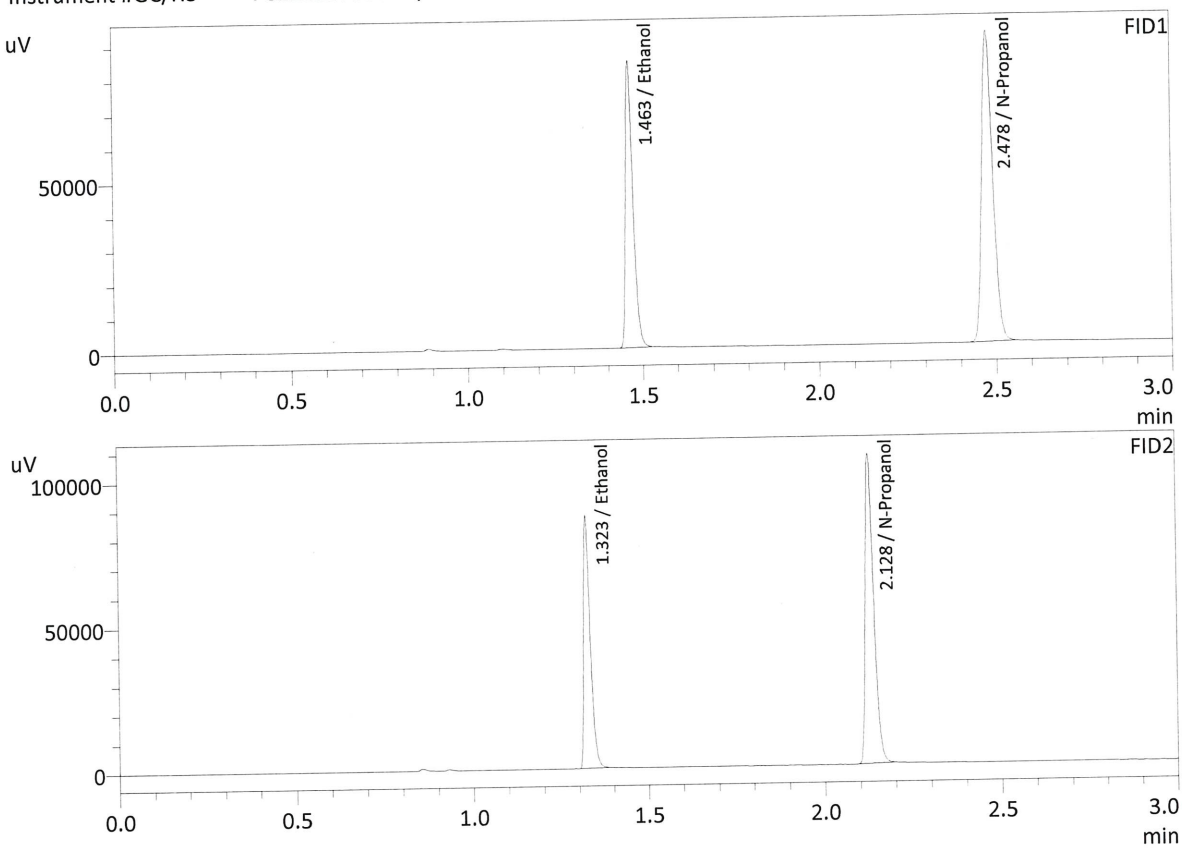
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1992	84564	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	199991	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

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

JG

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

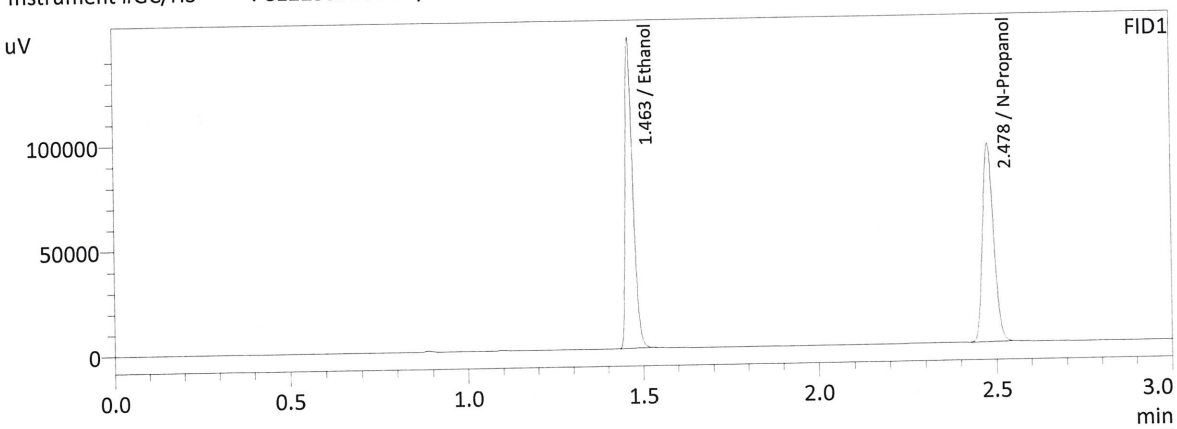
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2987	128031	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	200044	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

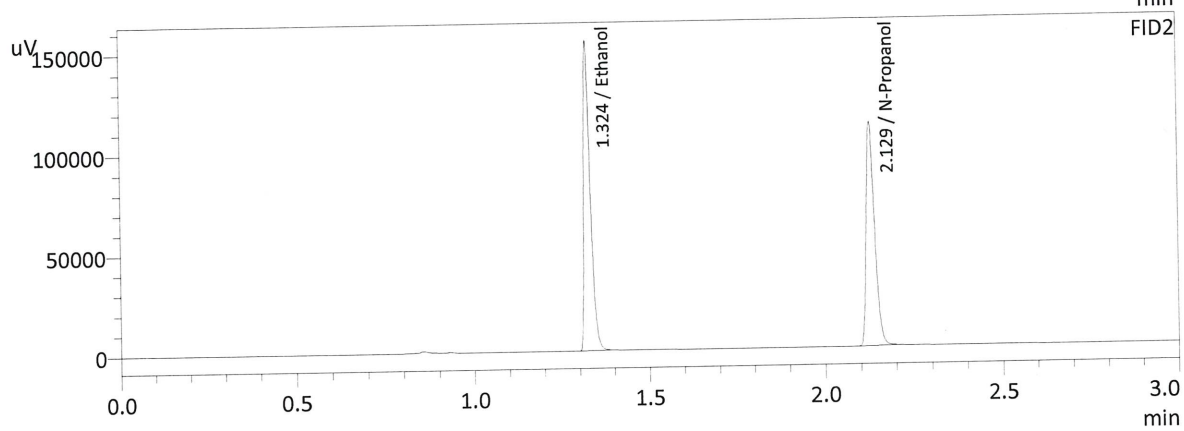
FID2

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

16

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

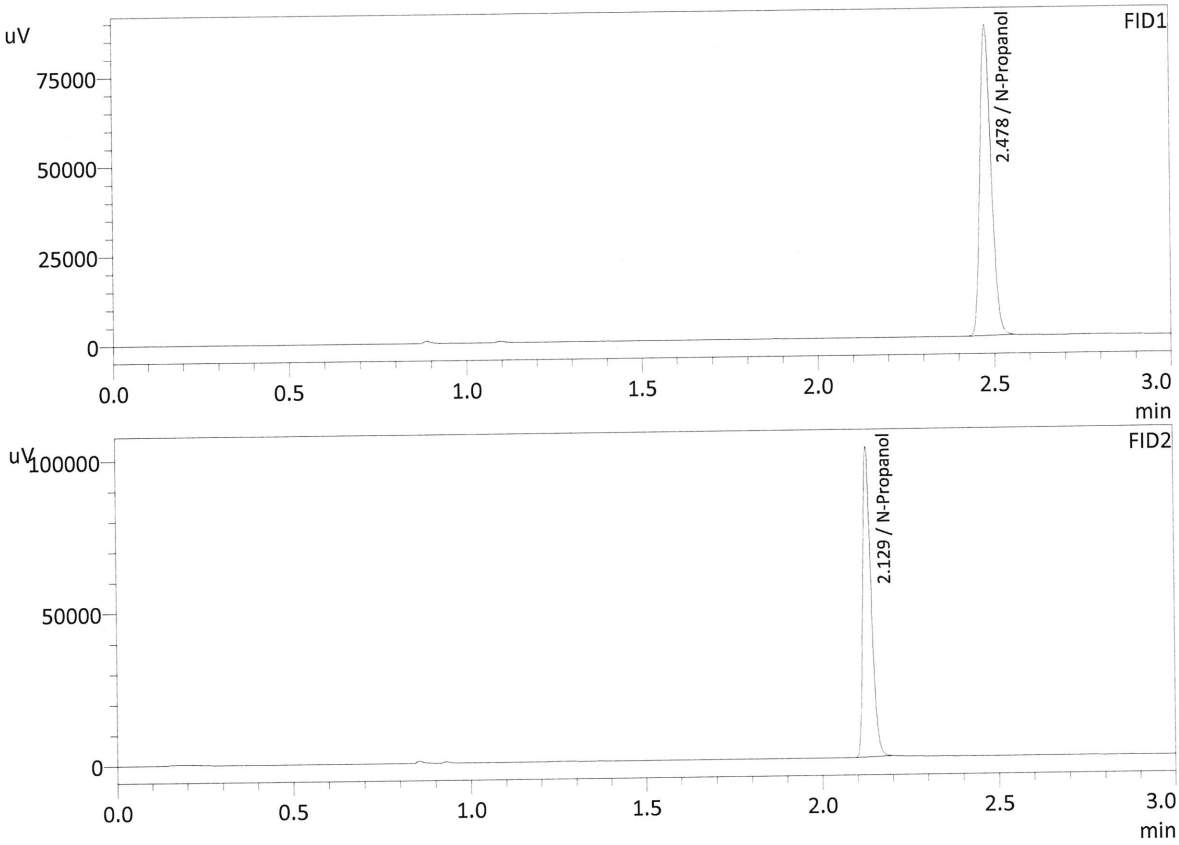
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5010	224793	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	207815	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

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

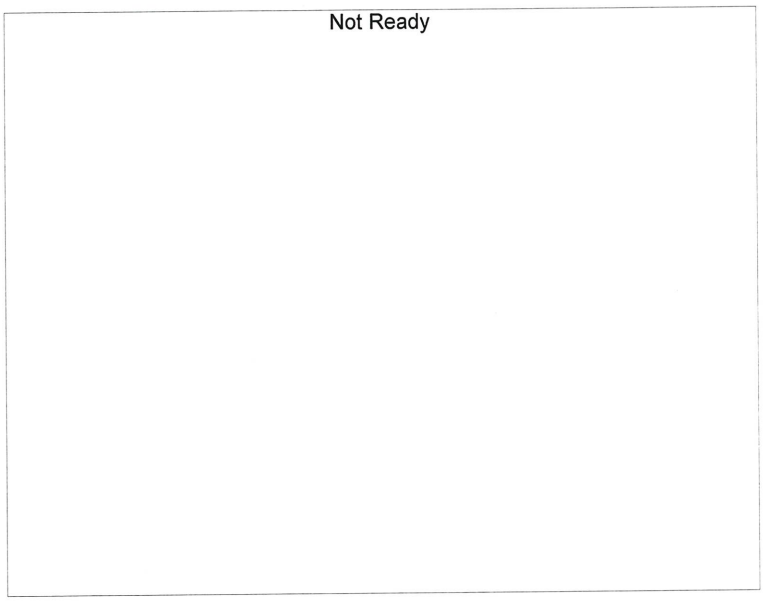
FID2

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

Calibration Table

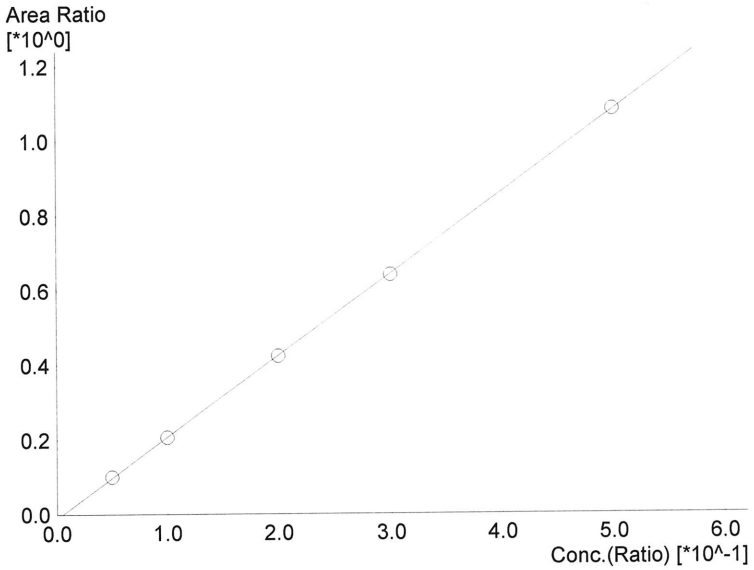
Laboratory : MERIDIAN
Instrument Name : GC-HS
Instrument Serial # : C12595800409 / C12255750548

<<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



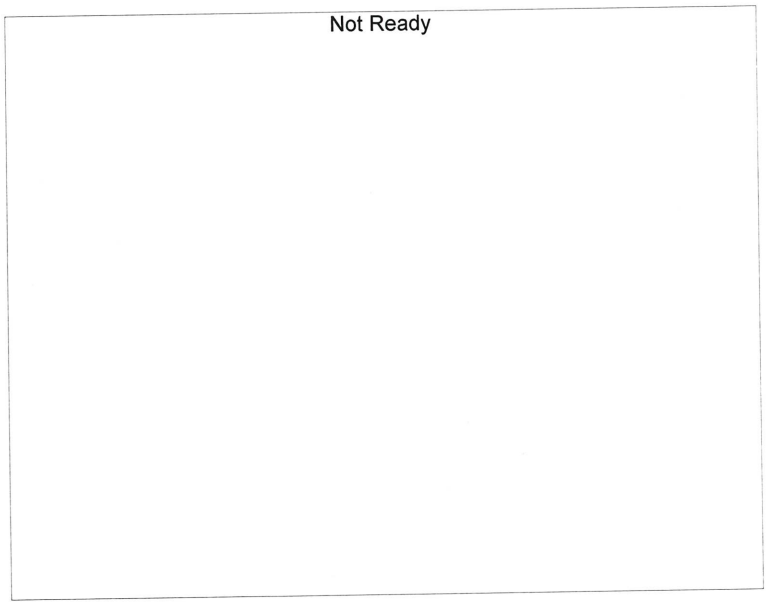
Name : Methanol
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



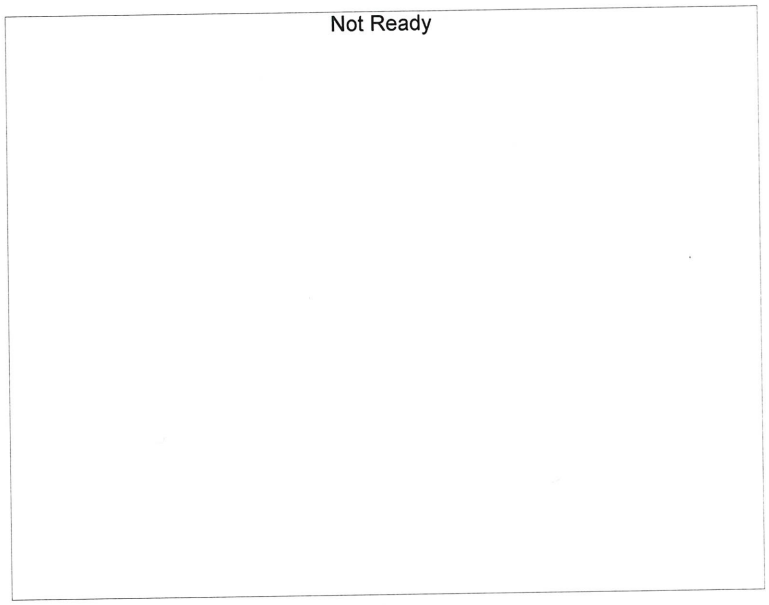
Name : Ethanol
Detector Name: FID1
Function : f(x)=2.18337*x-0.0121858
R^2 value= 0.9999588
FitType: Linear
ZeroThrough: Not Through

#	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



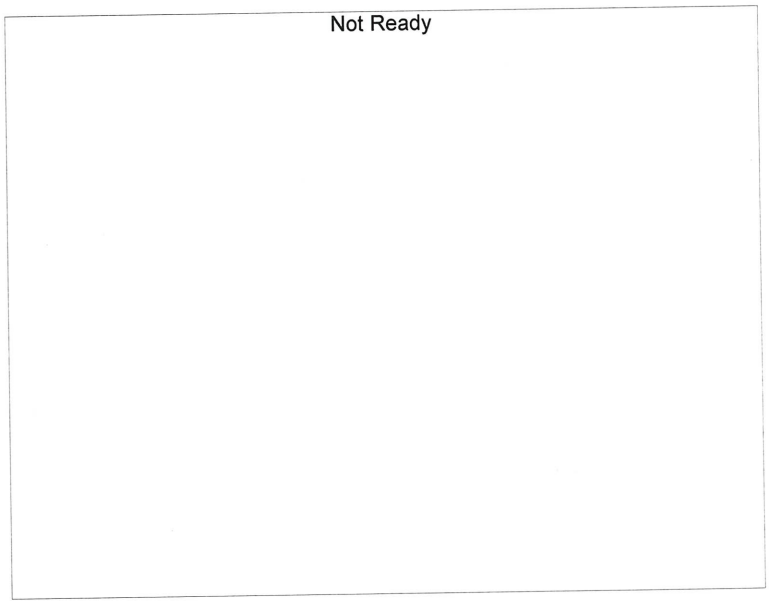
Name : Isopropyl Alcohol
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



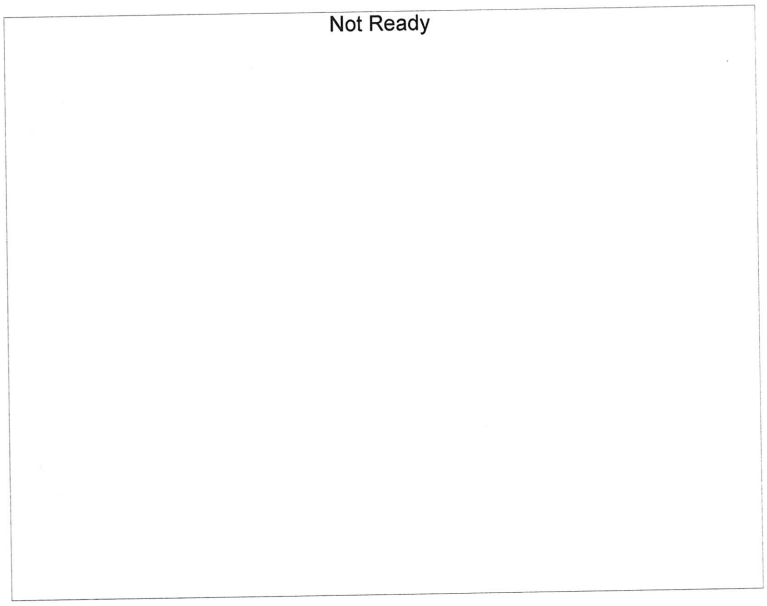
Name : Acetone
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



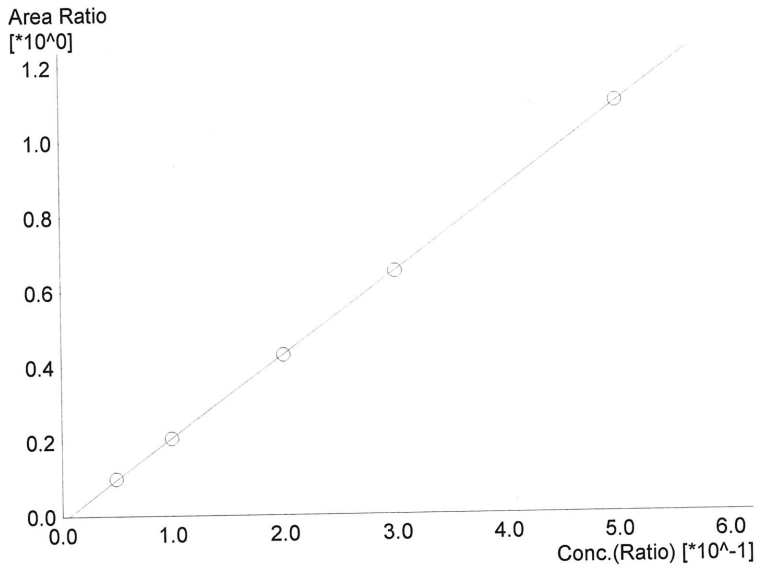
Name : Fluor. Hydrocarbon(s)
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



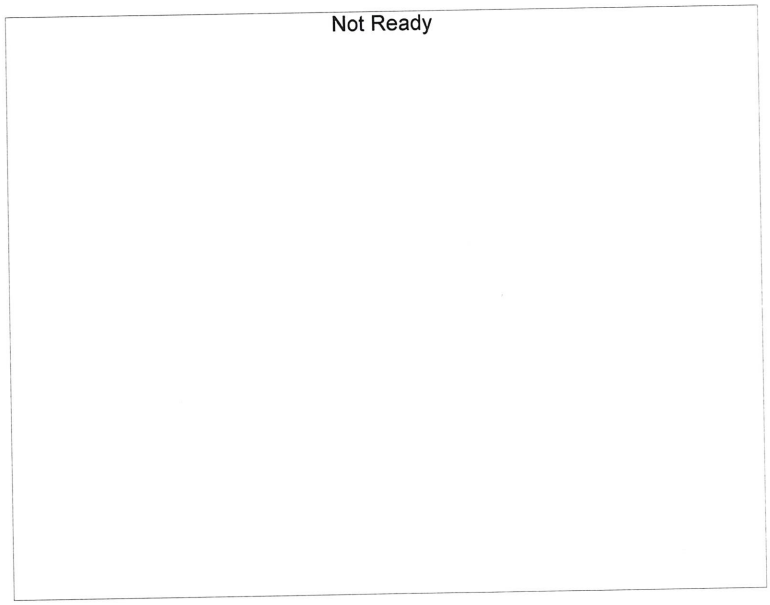
Name : Methanol
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



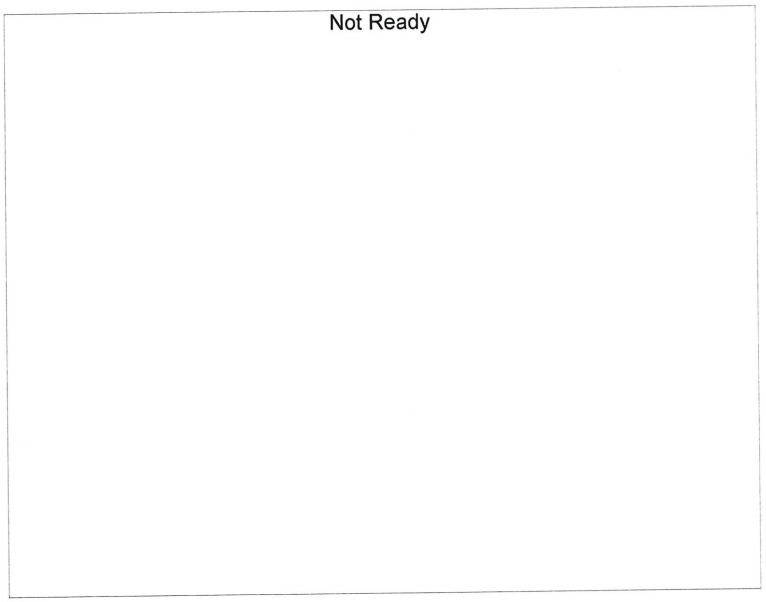
Name : Ethanol
Detector Name: FID2
Function : f(x)=2.22096*x-0.0146650
R^2 value= 0.9999679
FitType: Linear
ZeroThrough: Not Through

#	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



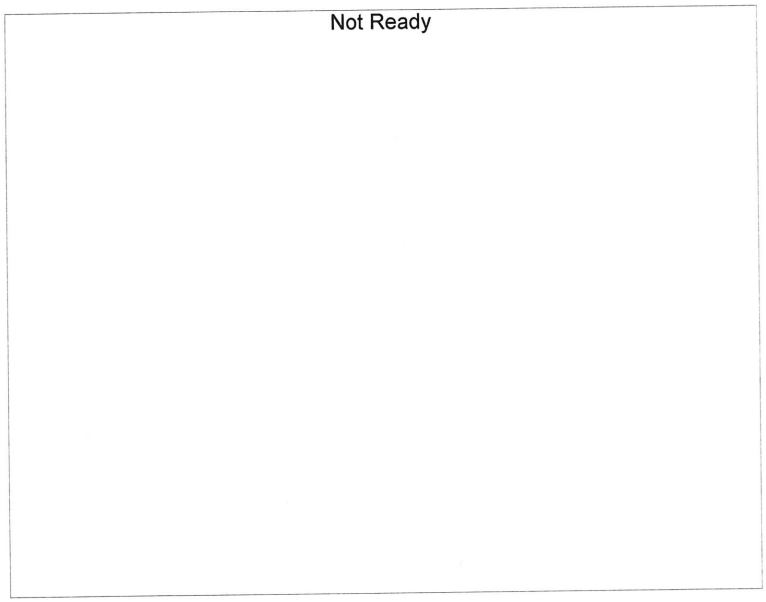
Name : Acetone
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	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.

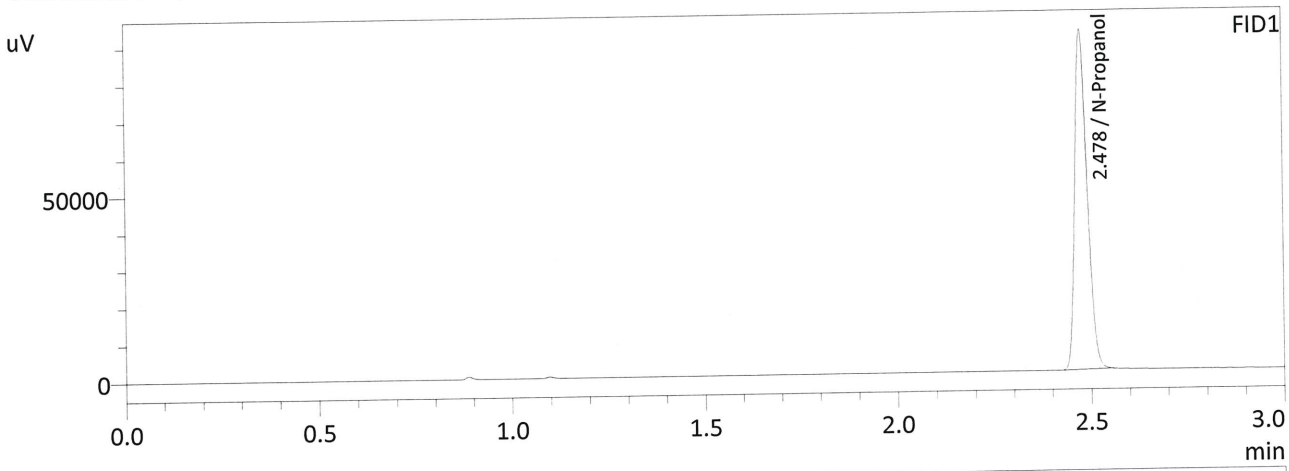
Meridian Blood Alcohol Analysis Batch Table

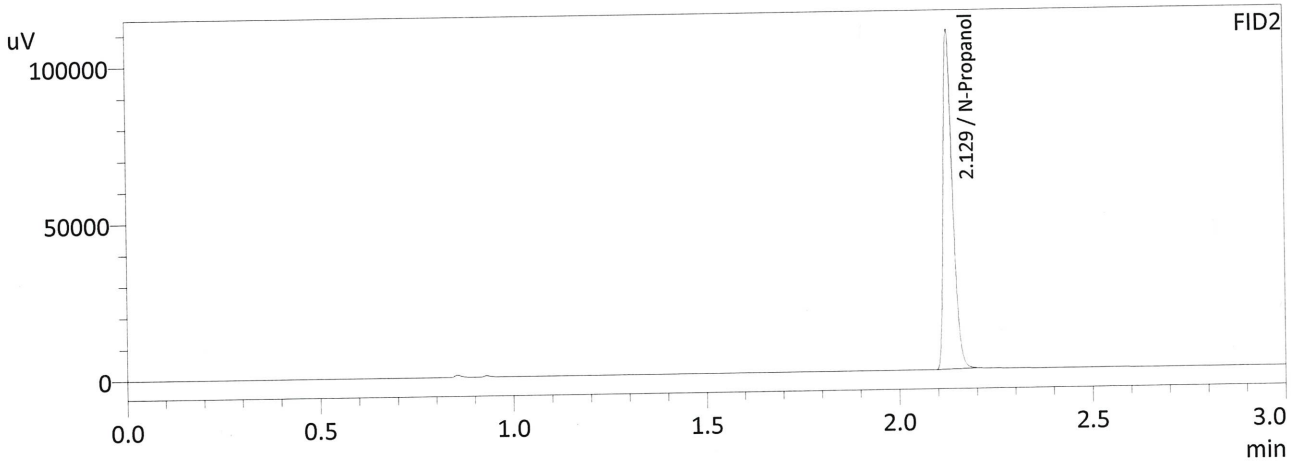
Shimadzu GC-2030 Serial #C12255750548
Shimadzu HS-20 Serial #C12595800409
Lab Solutions Software Ver. 5.99

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 : 6/14/2021 4:12:04 PM
Vial # : 1
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

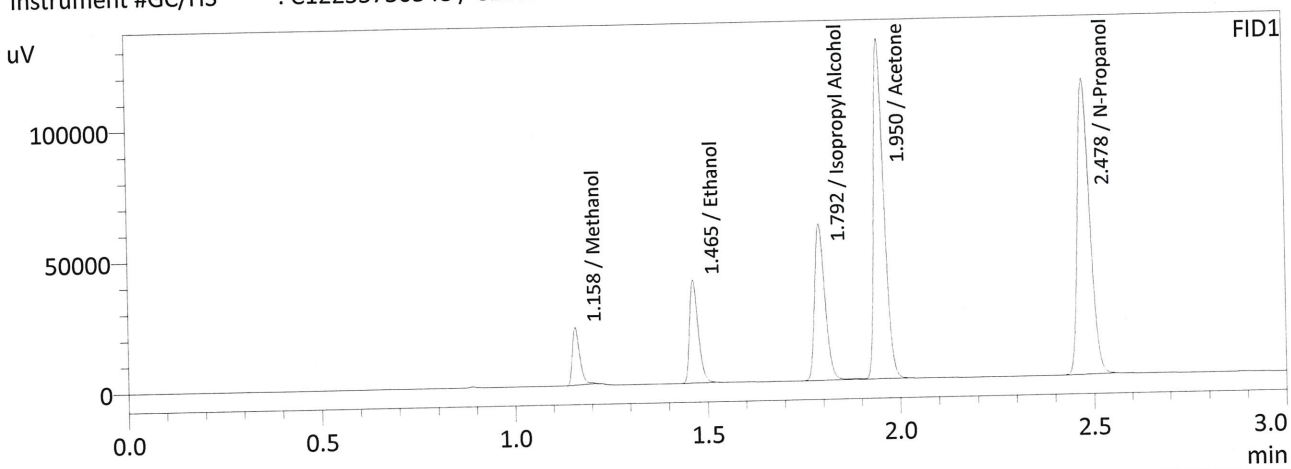
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	202762	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

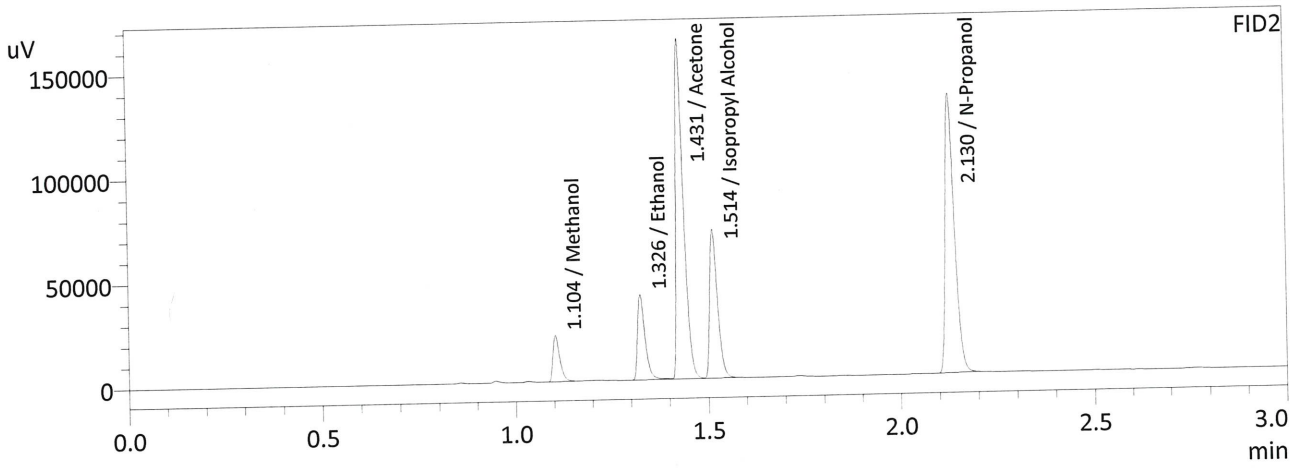
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	179094	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : MIXED VOLATILES FN 07101701
Laboratory : Meridian
Injection Date : 6/14/2021 4:19:23 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	29649	g/100cc
Ethanol	0.1162	60211	g/100cc
Isopropyl Alcohol	0.0000	111117	g/100cc
Acetone	0.0000	241452	g/100cc
N-Propanol	0.0000	249274	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	0.0000	27667	g/100cc
Ethanol	0.1191	54957	g/100cc
Acetone	0.0000	219666	g/100cc
Isopropyl Alcohol	0.0000	99721	g/100cc
N-Propanol	0.0000	219955	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 6/14/21**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0750	0.0754	0.0004	0.0752	0.0000	0.0752
(g/100cc)	0.0750	0.0755	0.0005	0.0752		

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

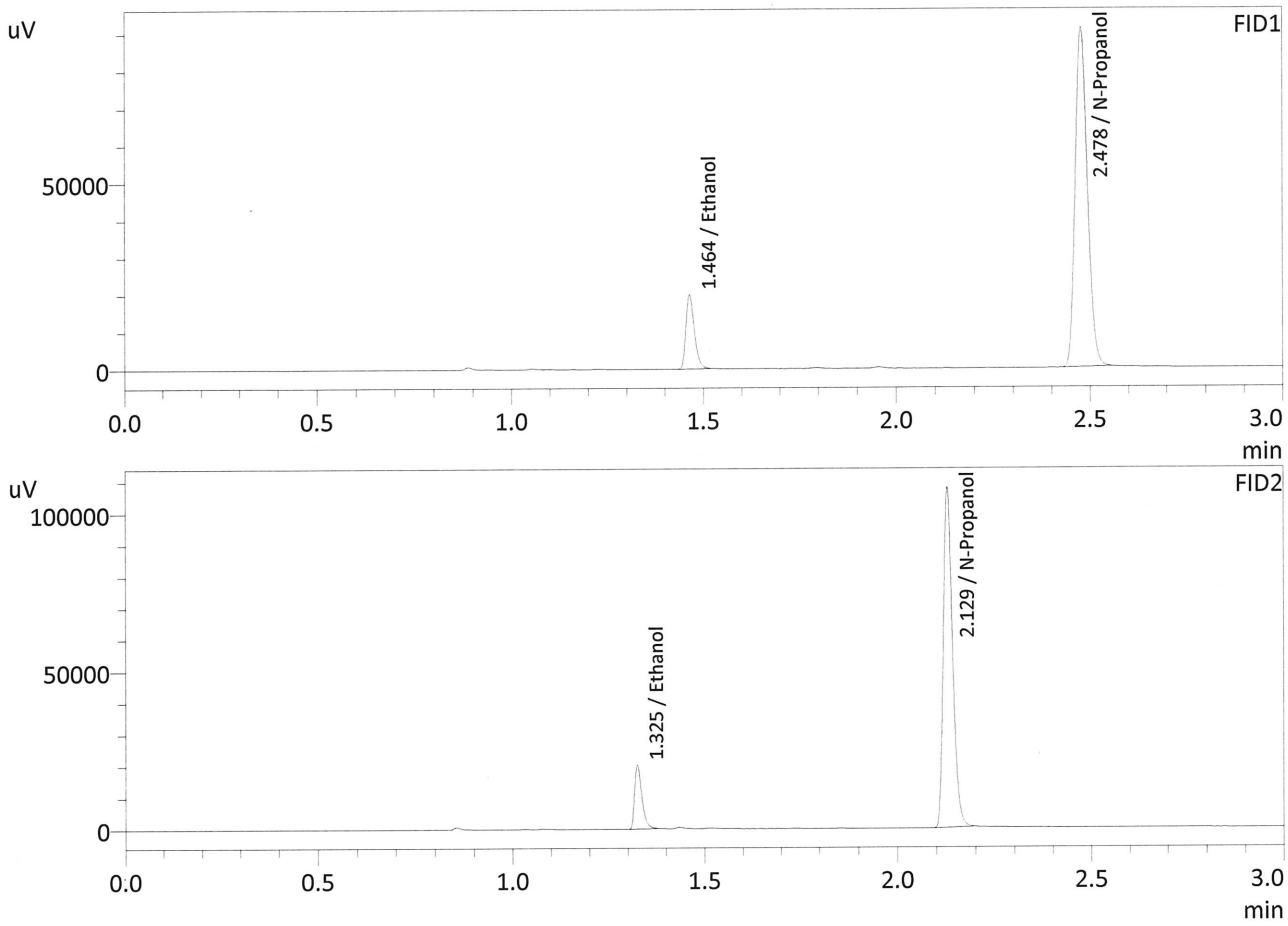
Reporting of Results **Uncertainty of Measurement (UM%): 5.00%**

Overall Mean (g/100cc)	Low	High	5% of Mean
0.075	0.071	0.079	0.004

	Reported Result	
	0.075	

Calibration and control data are stored centrally.

Sample Name : QC-1-1-A
Laboratory : Meridian
Injection Date : 6/14/2021 4:27:05 PM
Vial # : 3
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

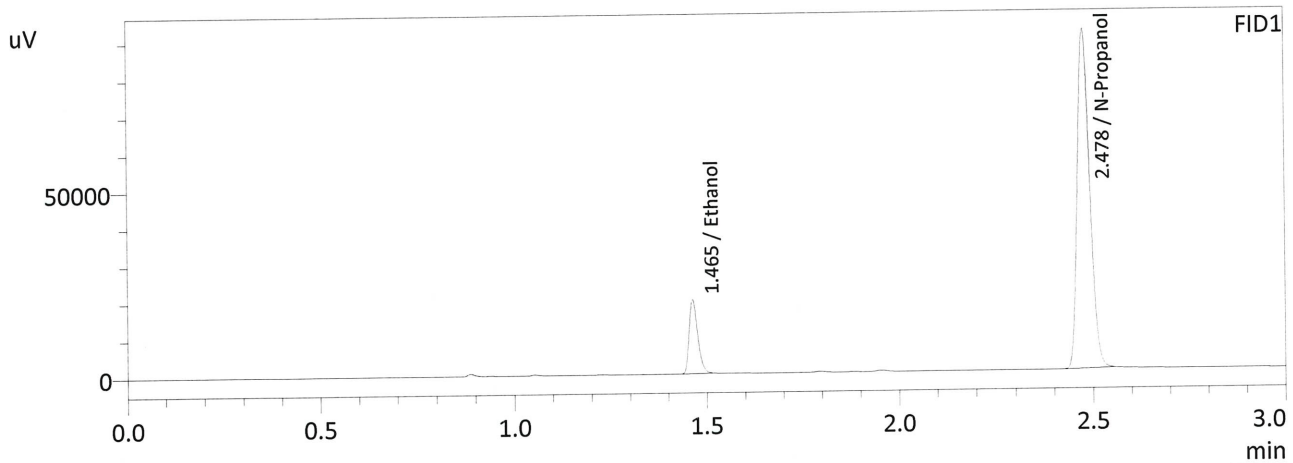
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0750	30451	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	200760	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

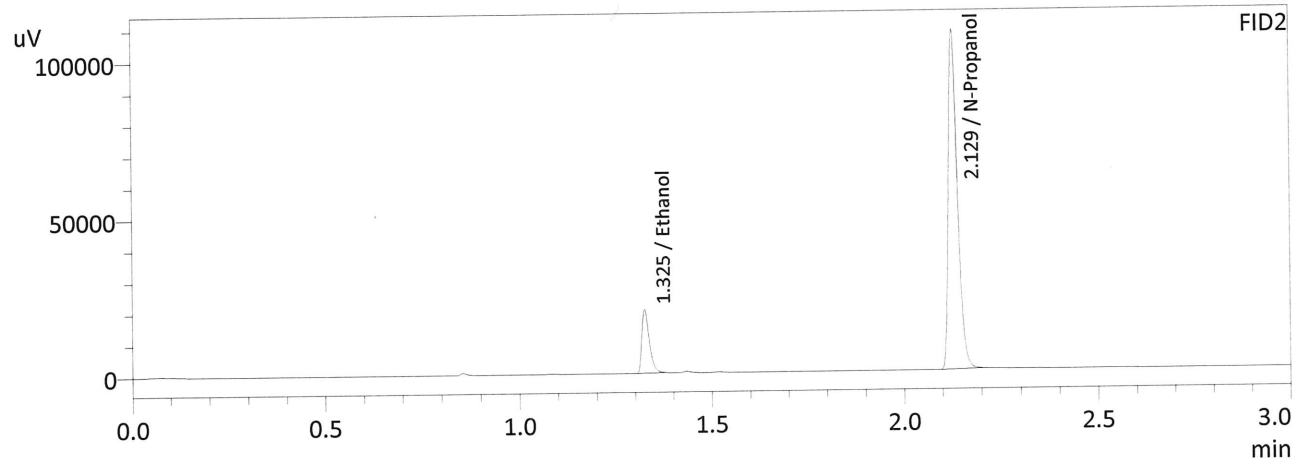
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0754	27127	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	177472	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JL

Sample Name : QC-1-1-B
Laboratory : Meridian
Injection Date : 6/14/2021 4:35:31 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	0.0750	30599	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	201797	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0755	27311	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	178343	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.080 QA **Analysis Date(s): 6/14/21**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0823	0.0825	0.0002	0.0824	0.0004	0.0822
(g/100cc)	0.0817	0.0823	0.0006	0.0820		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument information is stored centrally.*

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

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

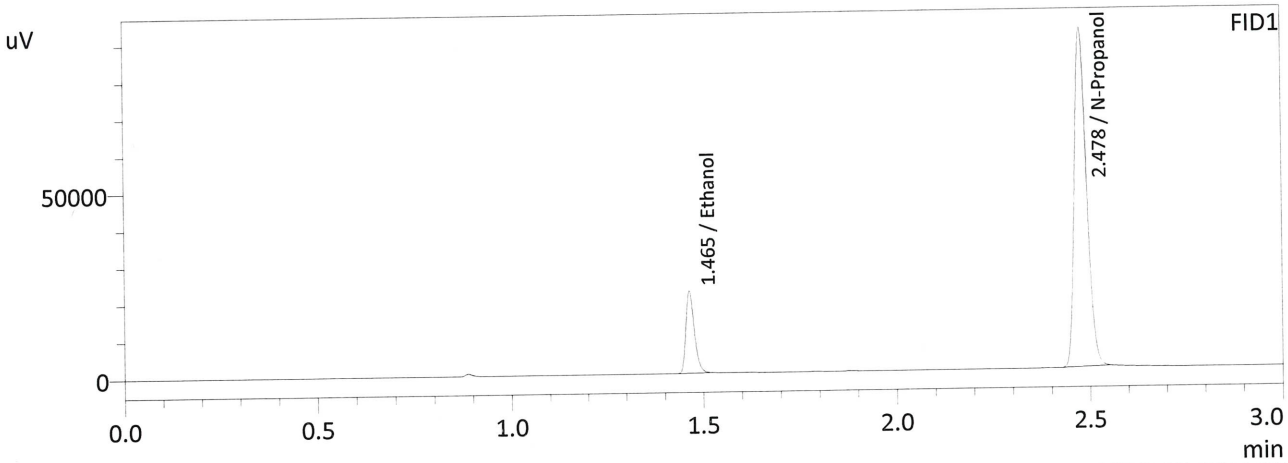
Overall Mean (g/100cc)	Low	High	5% of Mean
0.082	0.077	0.087	0.005

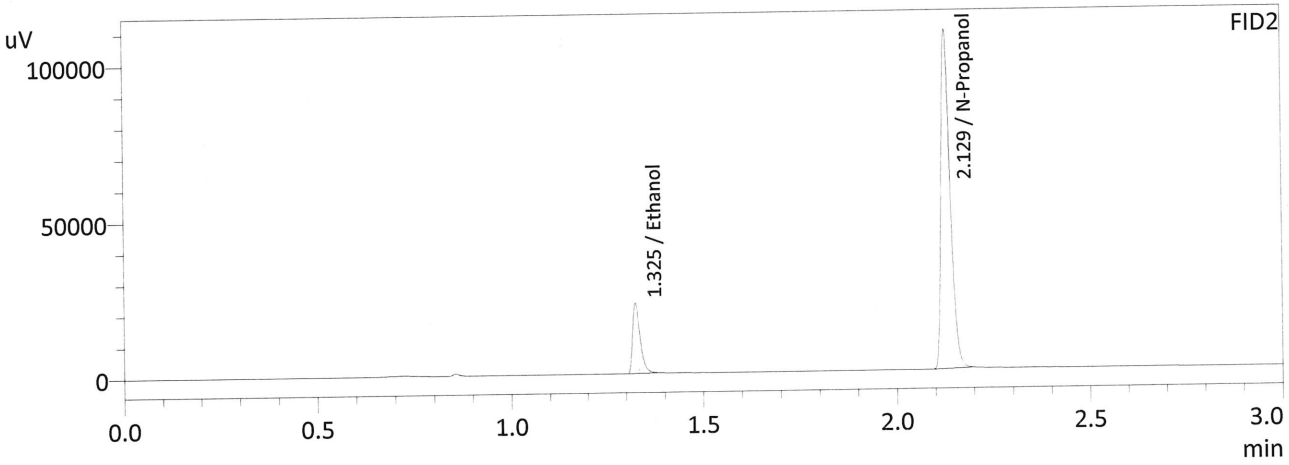
	Reported Result	
	0.082	

Calibration and control data are stored centrally.

JG

Sample Name : 0.08 QA-A
Laboratory : Meridian
Injection Date : 6/14/2021 4:43:19 PM
Vial # : 5
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

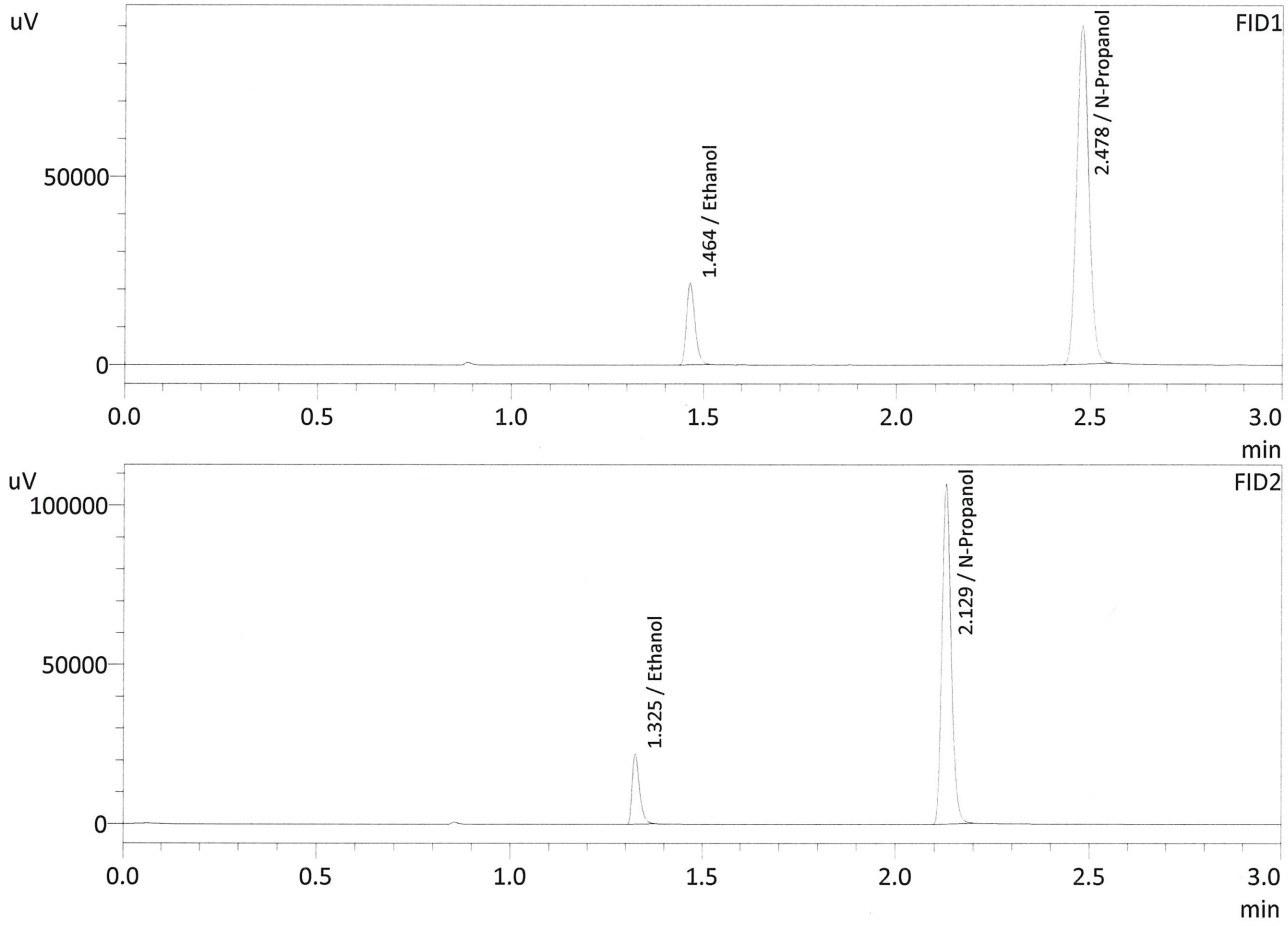
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0823	33959	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	202645	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0825	30212	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	179034	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JL

Sample Name : 0.08 QA-B
Laboratory : Meridian
Injection Date : 6/14/2021 4:51:47 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	0.0817	33097	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	198935	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0823	29559	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	175763	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 6/14/21**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2113	0.2121	0.0008	0.2117	0.0011	0.2122
(g/100cc)	0.2124	0.2132	0.0008	0.2128		

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%**

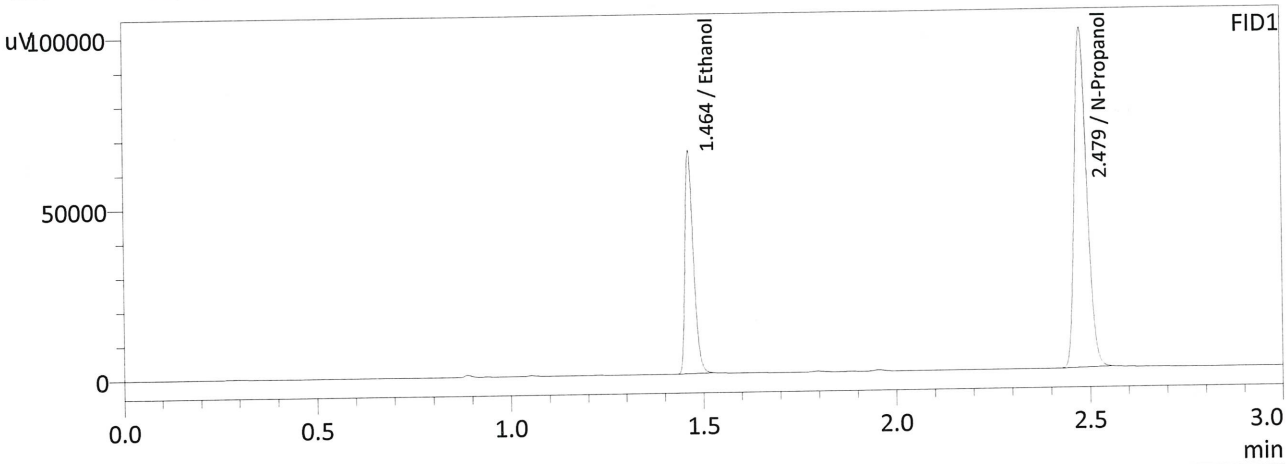
Overall Mean (g/100cc)	Low	High	5% of Mean
0.212	0.201	0.223	0.011

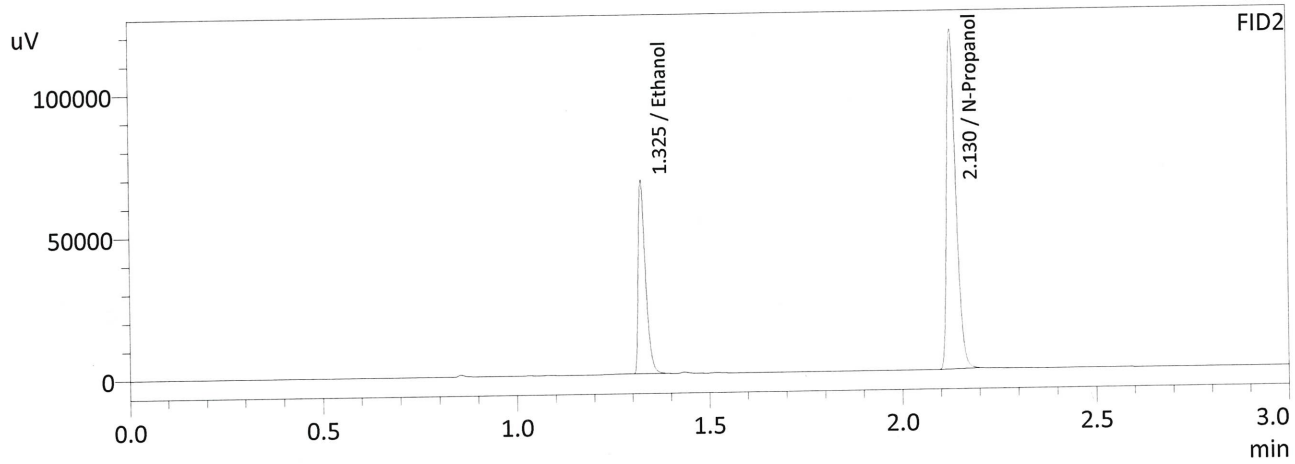
	Reported Result	
	0.212	

Calibration and control data are stored centrally.

JL

Sample Name : QC-2-1-A
Laboratory : Meridian
Injection Date : 6/14/2021 7:22:20 PM
Vial # : 25
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

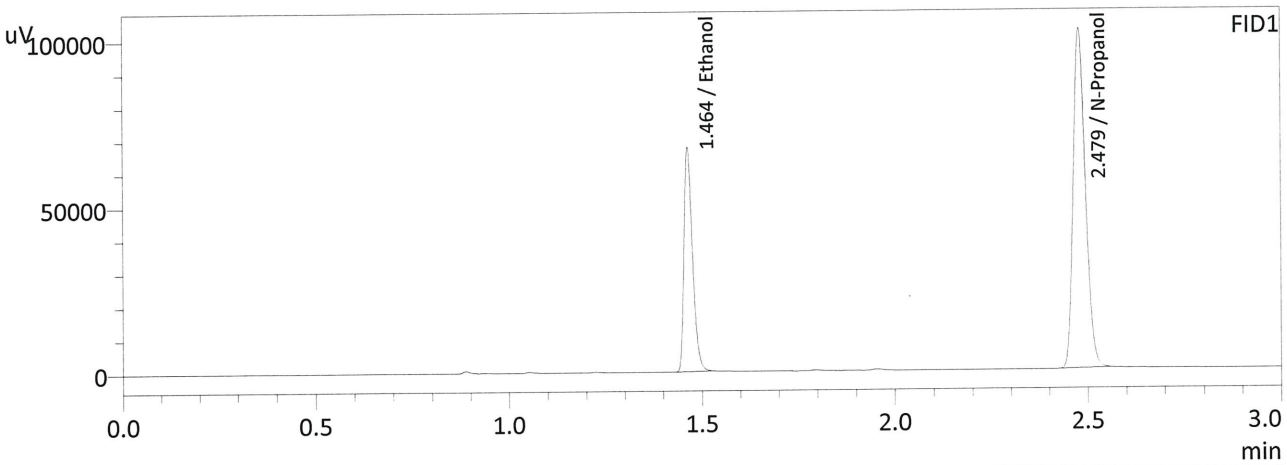
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2113	99574	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	221626	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

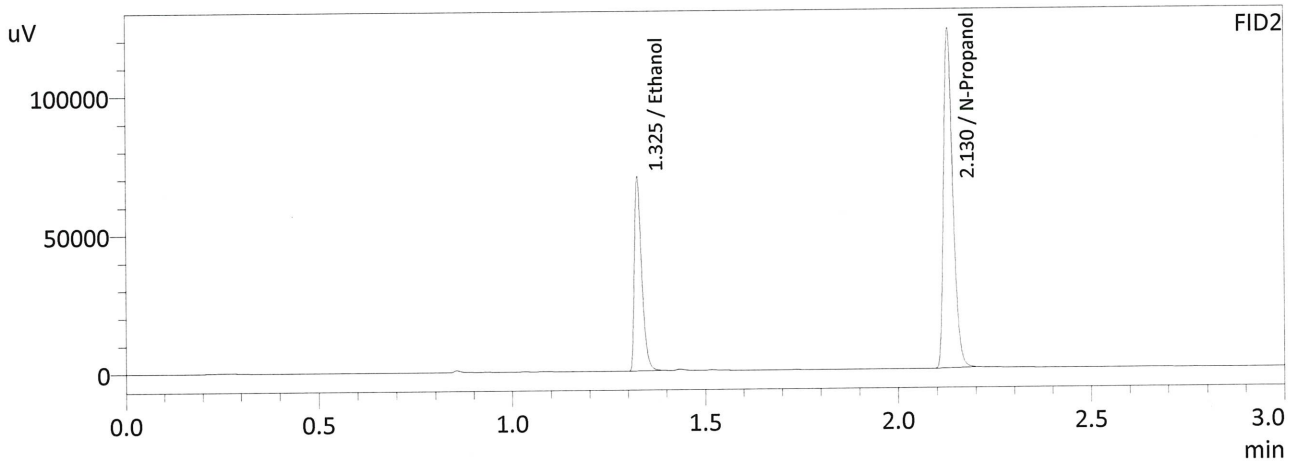
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2121	89567	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	196165	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : QC-2-1-B
Laboratory : Meridian
Injection Date : 6/14/2021 7:30:35 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	0.2124	102886	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	227792	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2132	92650	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	201875	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Analysis Date(s): 6/14/21**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0778	0.0785	0.0007	0.0781	0.0002	0.0780
(g/100cc)	0.0776	0.0782	0.0006	0.0779		

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%**

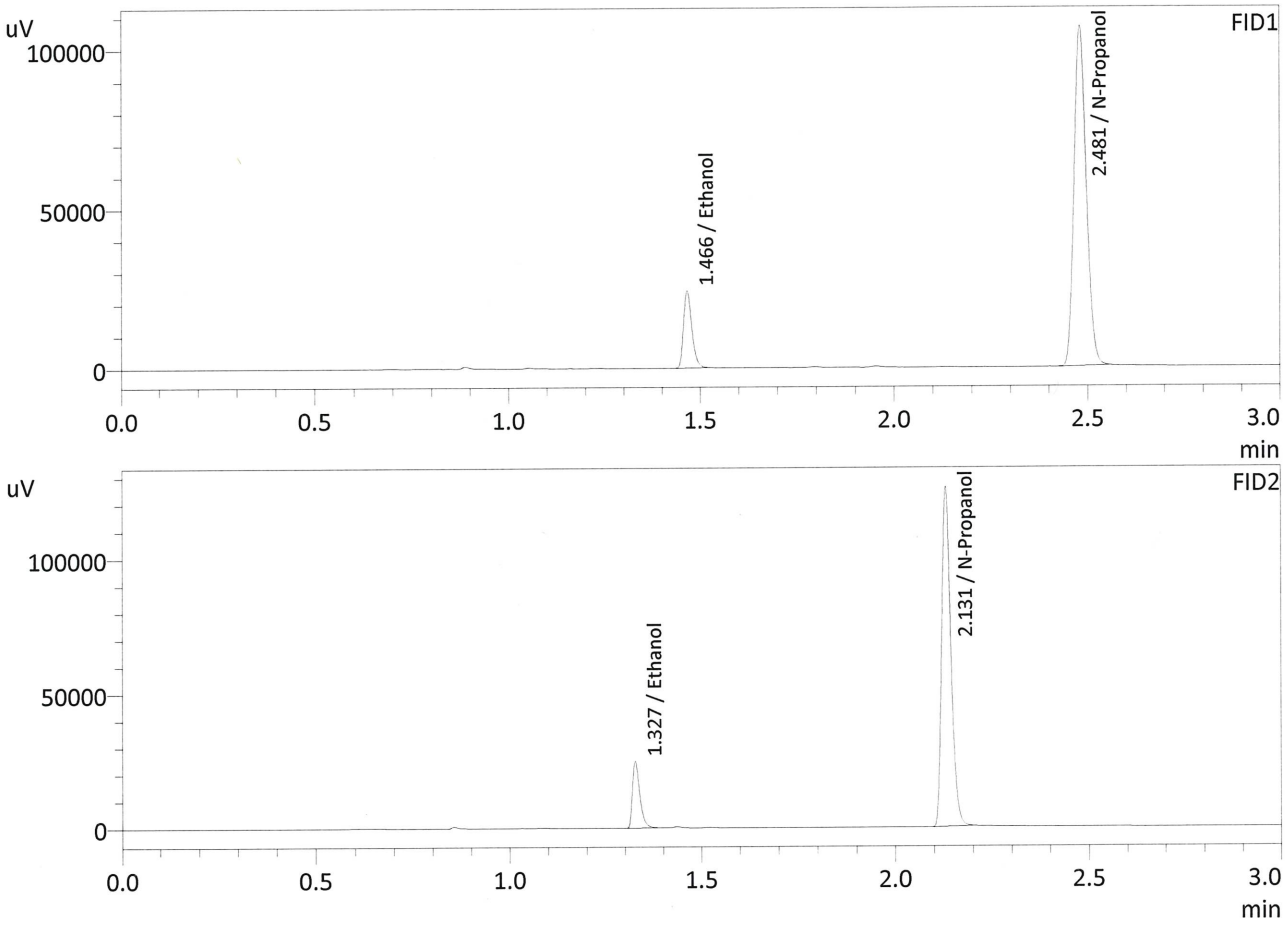
Overall Mean (g/100cc)	Low	High	5% of Mean
0.078	0.074	0.082	0.004

	Reported Result	
	0.078	

Calibration and control data are stored centrally.

JG

Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : 6/14/2021 10:19:04 PM
Vial # : 47
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

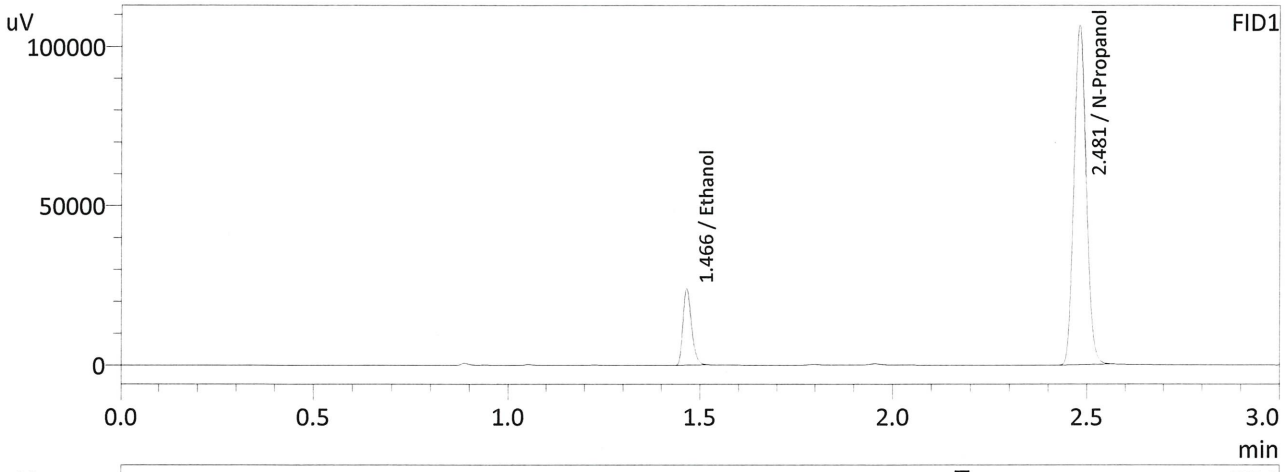
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0778	36999	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	234496	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

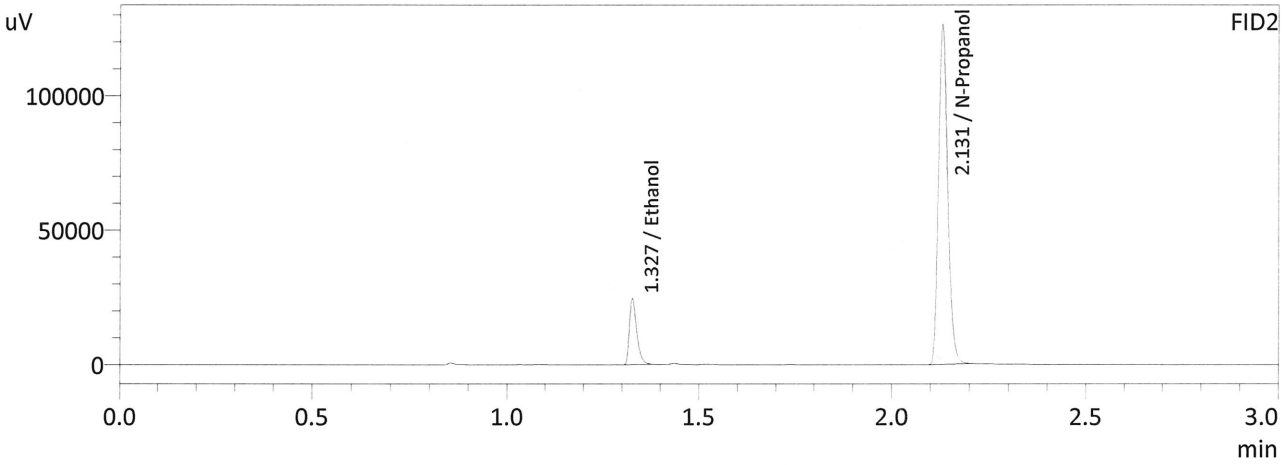
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0785	33253	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	208165	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JL

Sample Name	: QC1-2-B
Laboratory	: Meridian
Injection Date	: 6/14/2021 10:28:01 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	0.0776	36927	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	234651	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0782	33154	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	208460	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-2 **Analysis Date(s): 6/14/21**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2139	0.2142	0.0003	0.2140	0.0022	0.2151
(g/100cc)	0.2155	0.2169	0.0014	0.2162		

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%**

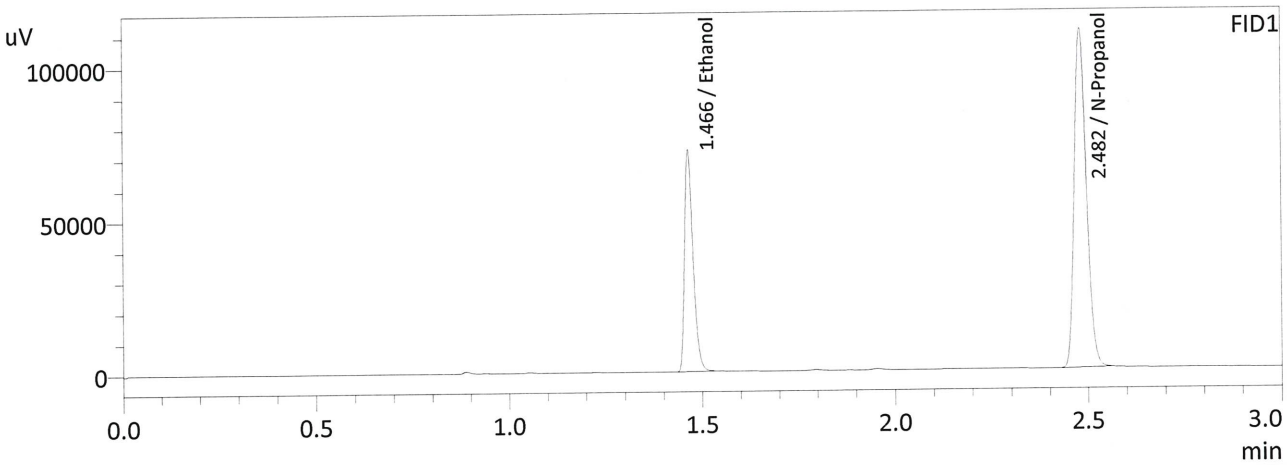
Overall Mean (g/100cc)	Low	High	5% of Mean
0.215	**0.204**	**0.226**	**0.011**

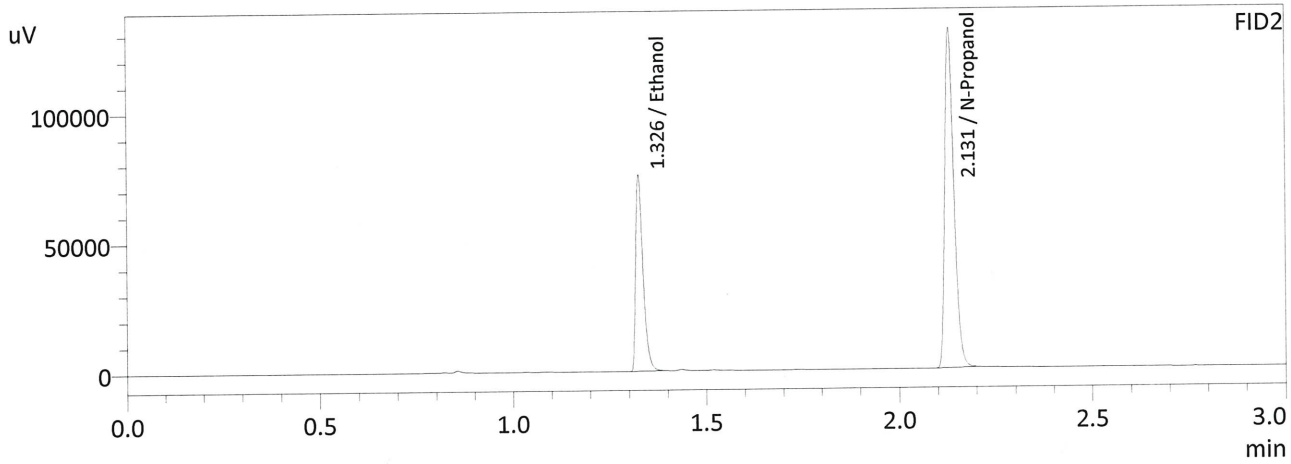
	Reported Result	
	0.215	

Calibration and control data are stored centrally.

JG

Sample Name : QC2-2-A
Laboratory : Meridian
Injection Date : 6/14/2021 11:23:28 PM
Vial # : 55
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409





FID1

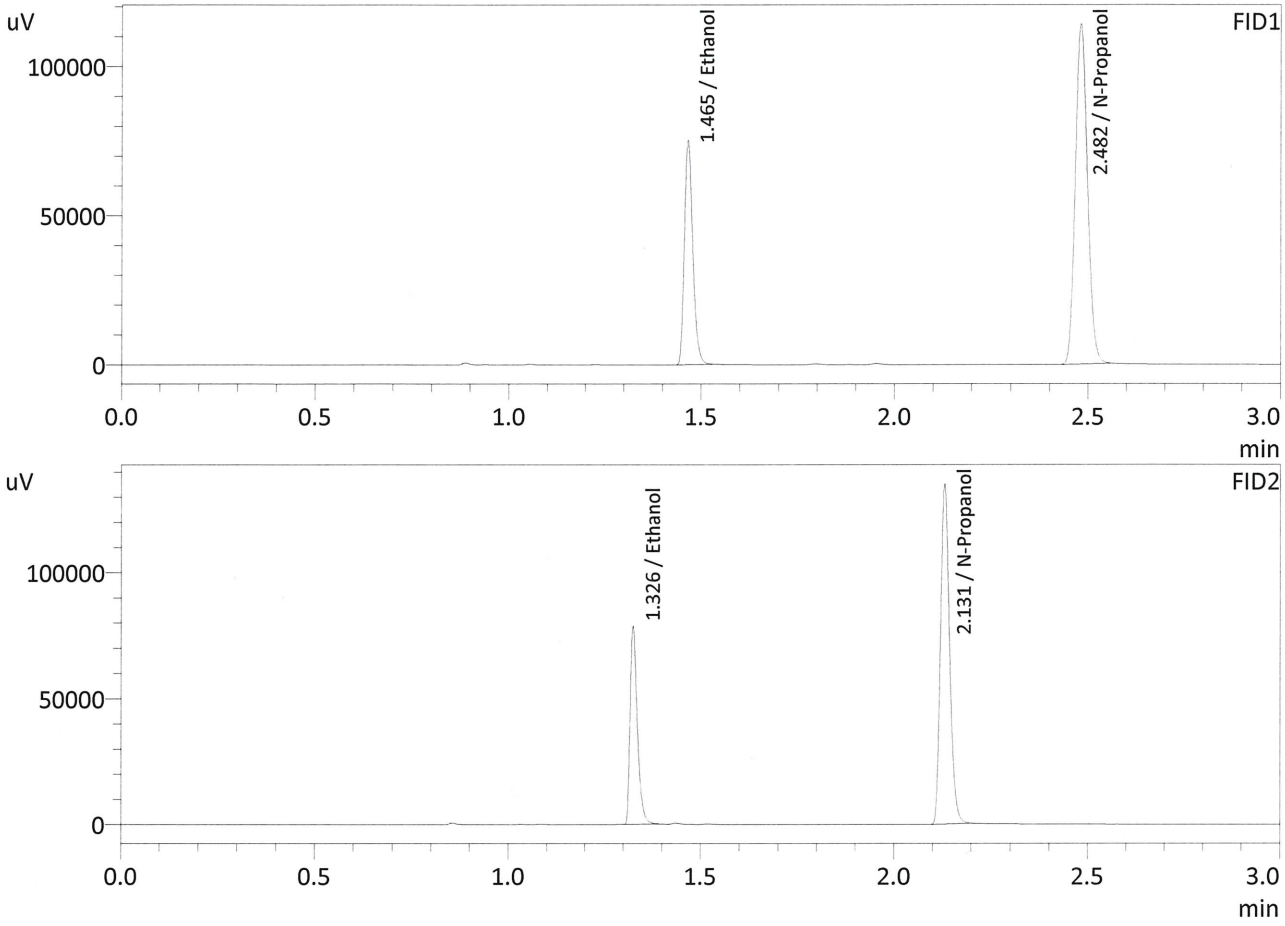
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2139	110622	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	243198	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2142	99772	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	216303	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JL

Sample Name : QC2-2-B
Laboratory : Meridian
Injection Date : 6/14/2021 11:30:39 PM
Vial # : 56
Method Filename : C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



FID1

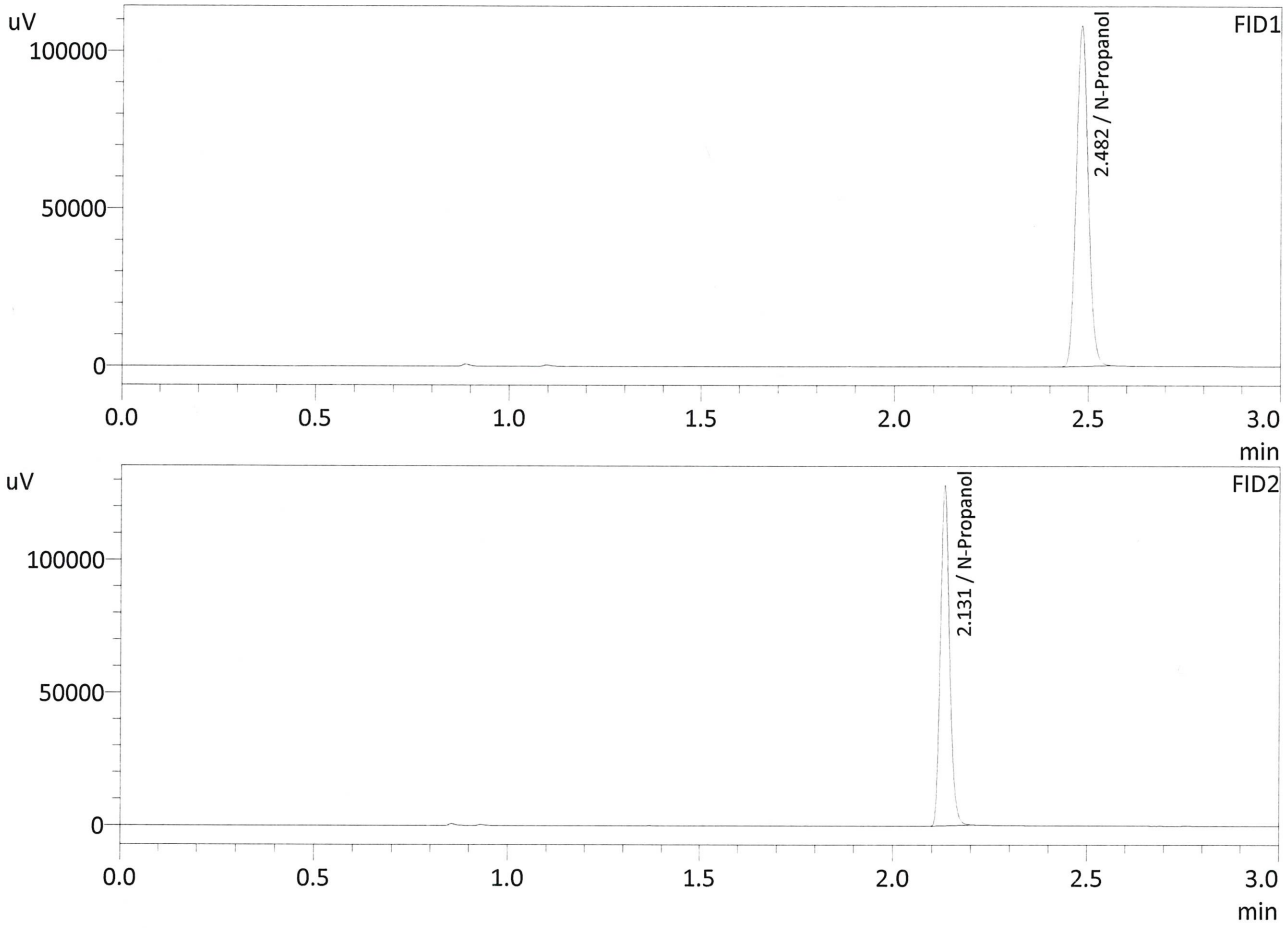
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2155	114861	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	250555	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2169	104109	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	222844	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

JG

Sample Name : INT STD BLNK
Laboratory : Meridian
Injection Date : 6/14/2021 11:39:28 PM
Vial # : 57
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	237561	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	211182	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

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	REPCO 0.08 1-A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
8	REPCO 0.08 1-B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
9	REPCO 0.08 2-A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
10	REPCO 0.08 12B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
11	REPCO 0.2 1-A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
12	REPCO 0.2 1-B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
13	REPCO 0.2 2-A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
14	REPCO 0.2 12B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
15	M2021-2472-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
16	M2021-2472-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
17	M2021-2473-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
18	M2021-2473-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
19	M2021-2483-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
20	M2021-2483-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
21	M2021-2484-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
22	M2021-2484-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
23	M2021-2495-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
24	M2021-2495-1B	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	M2021-2508-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
28	M2021-2508-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
29	M2021-2509-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
30	M2021-2509-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
31	M2021-2520-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
32	M2021-2520-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
33	M2021-2521-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
34	M2021-2521-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
35	M2021-2540-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
36	M2021-2540-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
37	M2021-2545-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
38	M2021-2545-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
39	M2021-2546-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
40	M2021-2546-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
41	M2021-2597-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
42	M2021-2597-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
43	M2021-2598-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
44	M2021-2598-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
45	M2021-2619-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
46	M2021-2619-1B	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	M2021-2630-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
50	M2021-2630-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
51	M2021-2635-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
52	M2021-2635-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
53	M2021-2636-1A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
54	M2021-2636-1B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
55	QC2-2-A	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
56	QC2-2-B	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM
57	INT STD BLNK	C:\LabSolutions\Data\210614\CALIBRATION\ALCOHOL.GCM

JL