REVIEWED
By Melissa (Nikka) Bradley at 3:32 pm, Oct 05, 2023

MB

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): 10/04/23

Calibration Date: 10/04/23

Worklist #: 6517

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Feb-25	2101199	0.0808	0.0727-0.0889	0.0765 g/100cc
					0.0801 g/100cc
					g/100cc
Level 2	Mar-26	2110181	0.2030	0.1827-0.2233	0.2029 g/100cc
					0.2054 g/100cc
					g/100cc

Multi-Component mixture:	Exp:	10/31/2024	Lot #	FN06041902	
Curve Fit:		**Column 1**	0.99934	**Column2**	0.99929

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0494	0.0490	0.0004	0.0492
100	0.100	0.090 - 0.110	0.0989	0.0995	0.0006	0.0992
200	0.200	0.180 - 0.220	0.2064	0.2065	1E-04	0.2064
300	0.300	0.270 - 0.330	0.2937	0.2933	0.0004	0.2935
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5014	0.5015	1E-04	0.5014

Aqueous Controls

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

Revision: 5
Issue Date: 07/05/2022
Issuing Authority: Quality Manager

Internal Standard Monitoring Worksheet

Worklist #:	6517	Run Date(s):	10/04/23

Internal Standard Solution:	Prep Date:	~~6/6/2023~~ 9/11/2023 10/24/23 gg	Exp Date:	~~12/6/2023~~ 3/11/2024 10/24/23 gg

MB 10/24/23

Sample Name	Column 1 Value	Column 2 Value
0.080	189666	205187
0.080	190735	206601
QC1	194984	211054
QC1	191701	207182
QC1	223555	242043
QC1	225771	244714
QC1		
QC1		
QC2	217418	235629
QC2	216992	235125
QC2	229182	248465
QC2	223259	241908
QC2		
QC2		

	Average	(-)20%	(+)20%
Column 1	210326.3	168261.0	252391.6
Column 2	227790.8	182232.6	273349.0

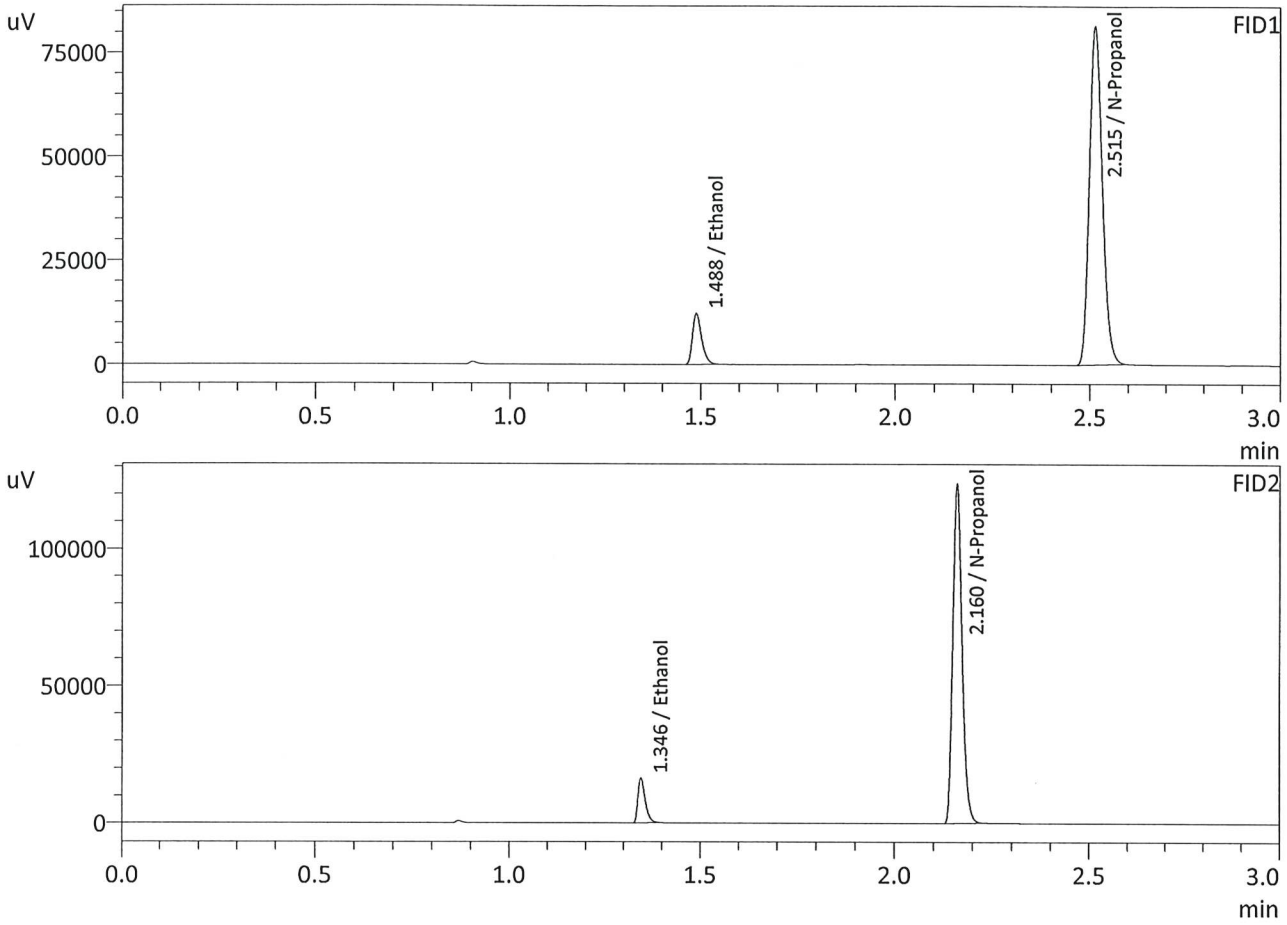
Revision: 5
Issue Date: 07/05/2022
Issuing Authority: Quality Manager

10/5/2023

Worklist: 6517

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2023-4145	1	BCK	Alcohol Analysis
M2023-4164	1	BCK	Alcohol Analysis
M2023-4176	1	BCK	Alcohol Analysis
M2023-4177	1	BCK	Alcohol Analysis
M2023-4193	1	BCK	Alcohol Analysis
M2023-4194	2	BCK	Alcohol Analysis
M2023-4210	2	BCK	Alcohol Analysis
M2023-4220	1	BCK	Alcohol Analysis
M2023-4221	1	BCK	Alcohol Analysis
M2023-4222	1	BCK	Alcohol Analysis
M2023-4223	1	BCK	Alcohol Analysis
M2023-4224	1	BCK	Alcohol Analysis
M2023-4225	1	BCK	Alcohol Analysis
M2023-4255	1	BCK	Alcohol Analysis
M2023-4257	1	BCK	Alcohol Analysis
M2023-4274	1	BCK	Alcohol Analysis
M2023-4275	1	BCK	Alcohol Analysis
M2023-4294	1	BCK	Alcohol Analysis

Sample Name	: 0.050
Laboratory	: Meridian
Injection Date	: 10/4/2023 11:38:03 AM
Vial #	: 1
Method Filename	: Default Project - ALCOHOL_231004.gcm
Instrument #GC/HS	: C12255750548 / C12595800409



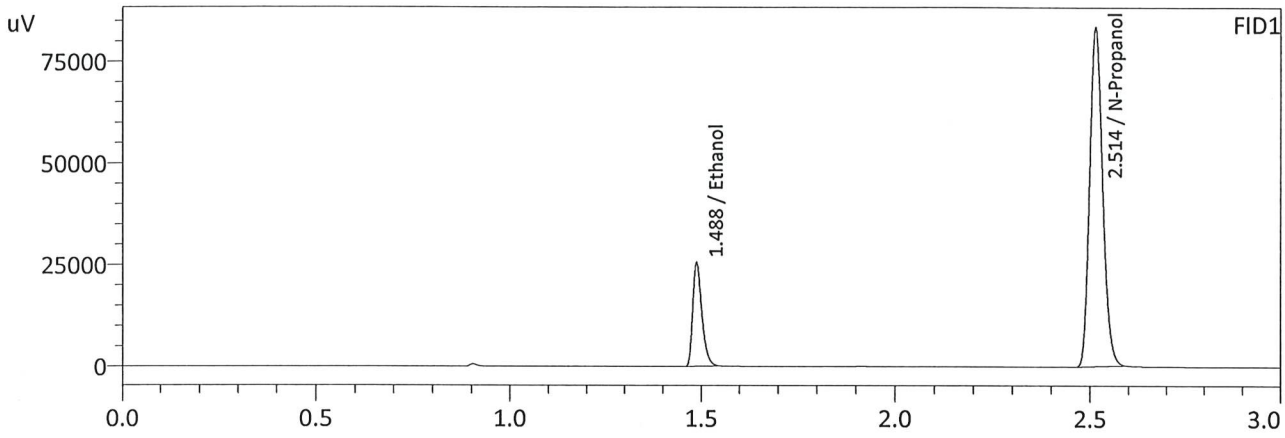
FID1

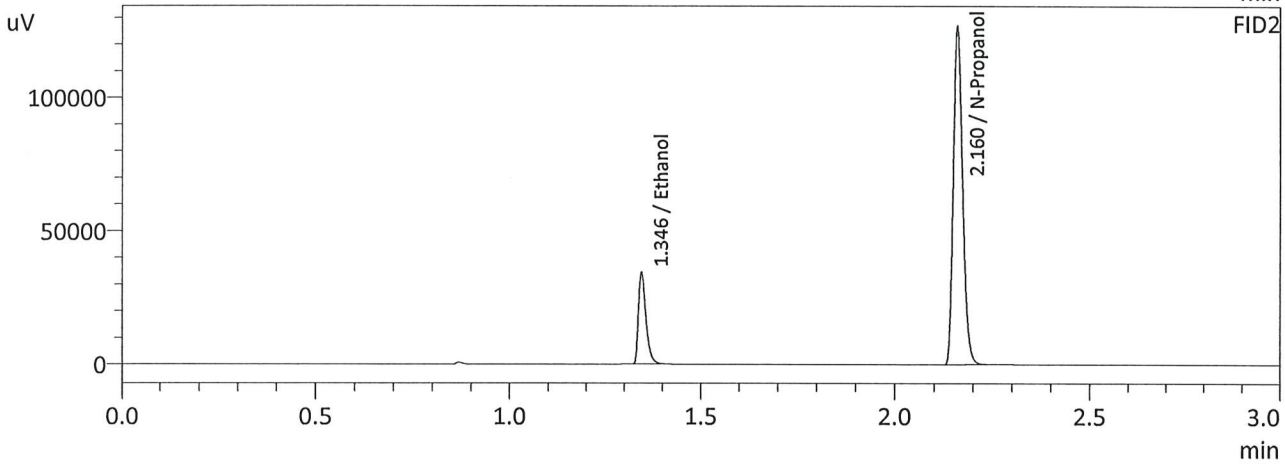
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0494	20420	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	189981	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0490	21917	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	205285	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.100
Laboratory : Meridian
Injection Date : 10/4/2023 11:45:22 AM
Vial # : 2
Method Filename : Default Project - ALCOHOL_231004.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

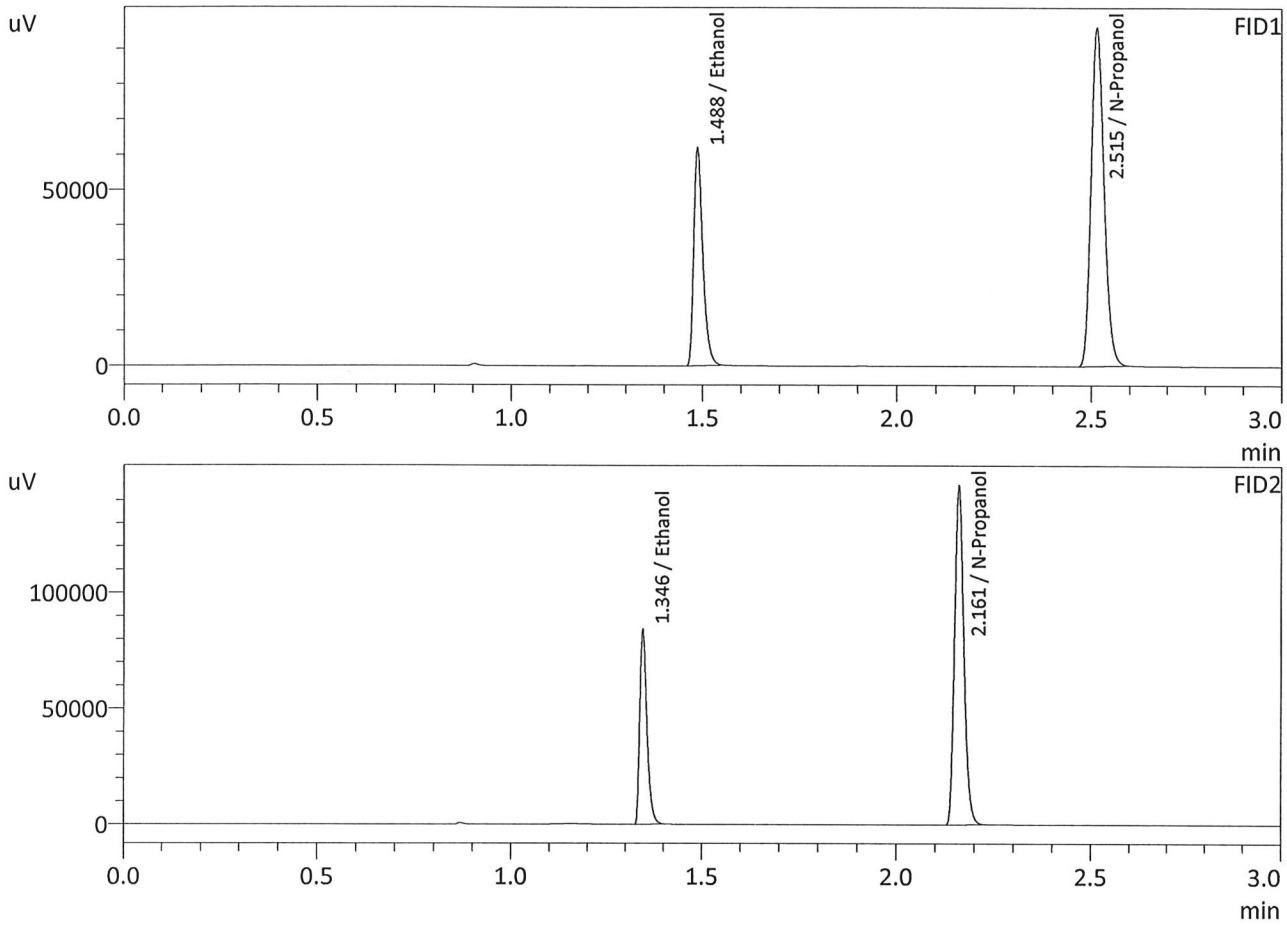
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0989	42410	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	194700	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0995	46269	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	210463	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

GR

Sample Name : 0.200
Laboratory : Meridian
Injection Date : 10/4/2023 11:52:52 AM
Vial # : 3
Method Filename : Default Project - ALCOHOL_231004.gcm
Instrument #GC/HS : C12255750548 / C12595800409



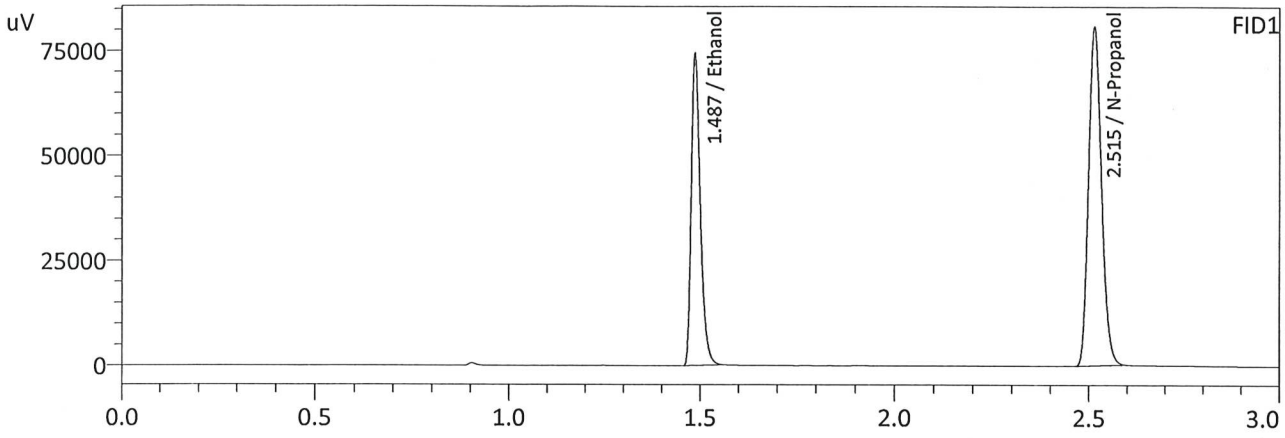
FID1

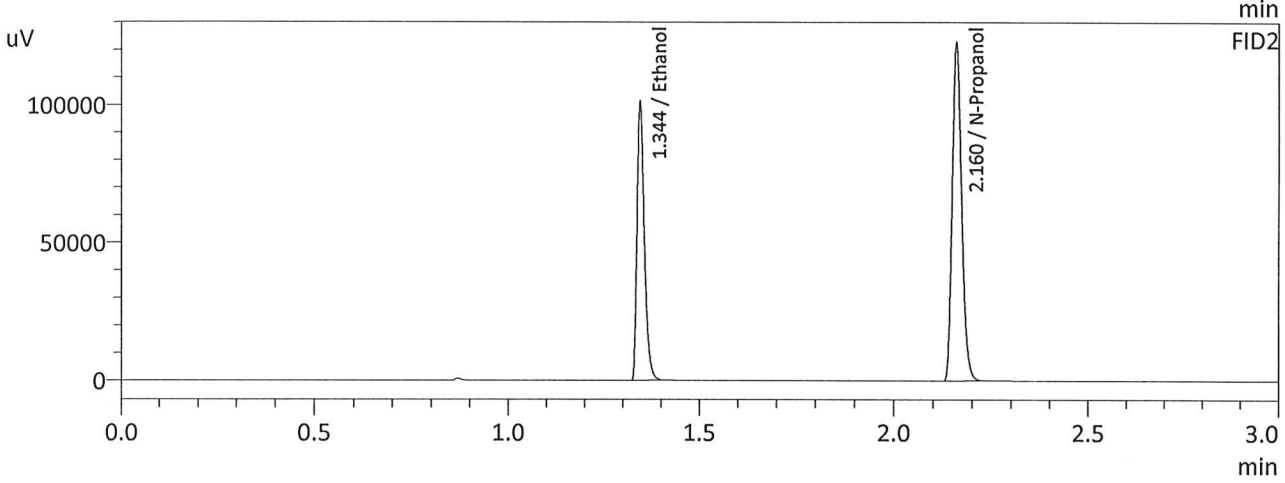
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2064	102492	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	223860	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2065	111334	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	242278	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.300
Laboratory : Meridian
Injection Date : 10/4/2023 12:01:44 PM
Vial # : 4
Method Filename : Default Project - ALCOHOL_231004.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

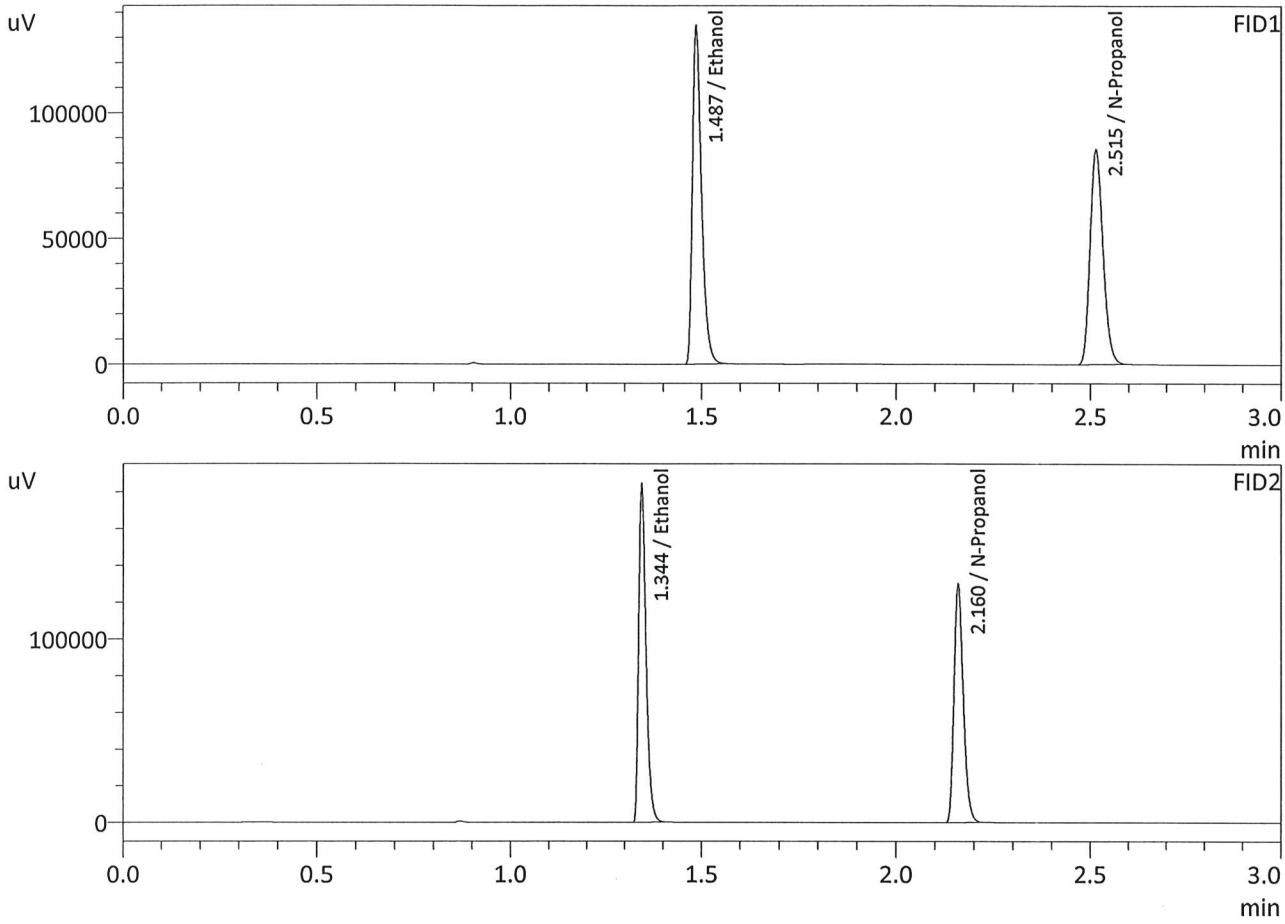
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2937	122923	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	188358	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2933	133315	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	203905	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.500
Laboratory : Meridian
Injection Date : 10/4/2023 12:10:03 PM
Vial # : 5
Method Filename : Default Project - ALCOHOL_231004.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5014	221904	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	198813	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

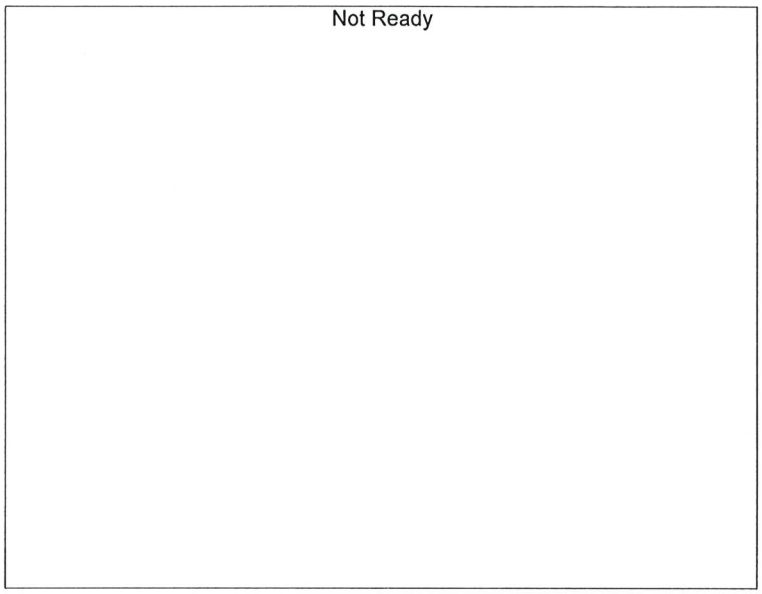
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5015	241255	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	215364	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Calibration Table

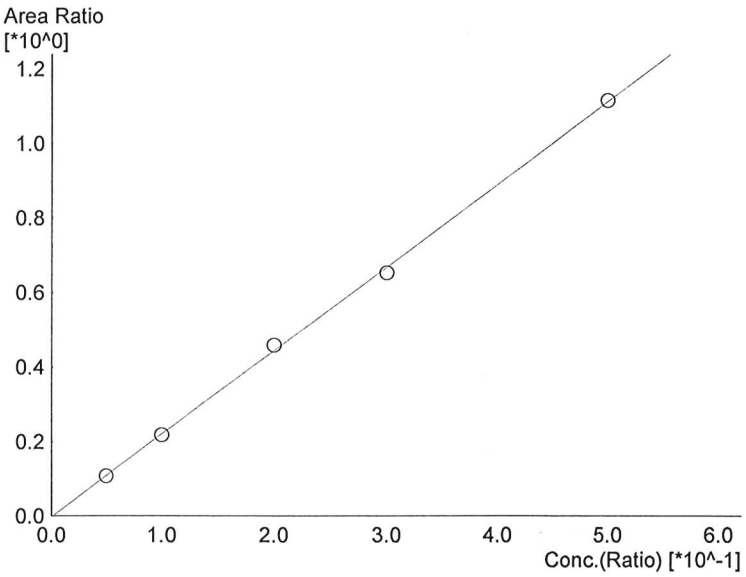
Laboratory : MERIDIAN
Instrument Name : GC-BAC
Instrument Serial # : C12595800409 / C12255750548

<<Data File>>
Method File :Default Project - ALCOHOL_231004.gcm
Batch File :Default Project - CALCURVE_231004GG.gcb
Date Acquired :10/4/2023 12:10:03 PM
Date Created :10/4/2023 12:04:48 PM
Date Modified :10/4/2023 12:27:16 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)=2.23157*x-0.00288155
R^2 value= 0.9993396
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	20420	0.0494
2	0.100	42410	0.0989
3	0.200	102492	0.2064
4	0.300	122923	0.2937
5	0.500	221904	0.5014

W

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

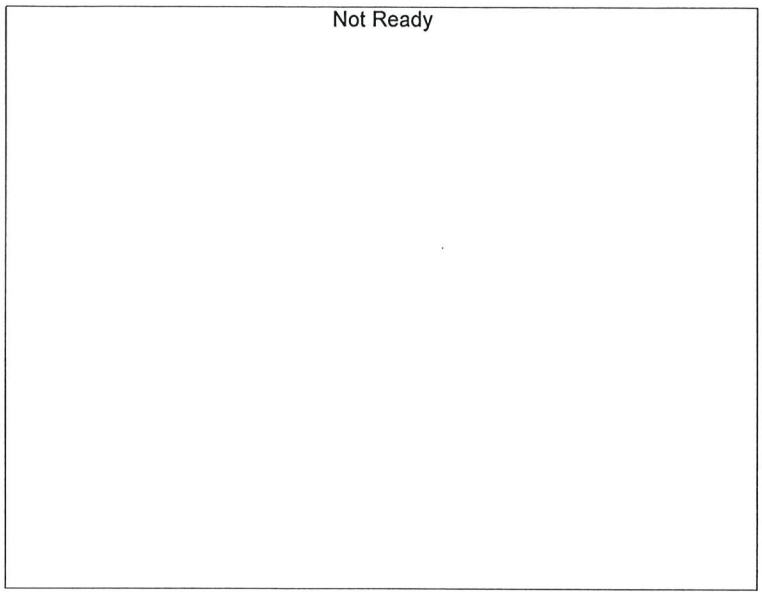
Name : Acetone
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.

Not Ready

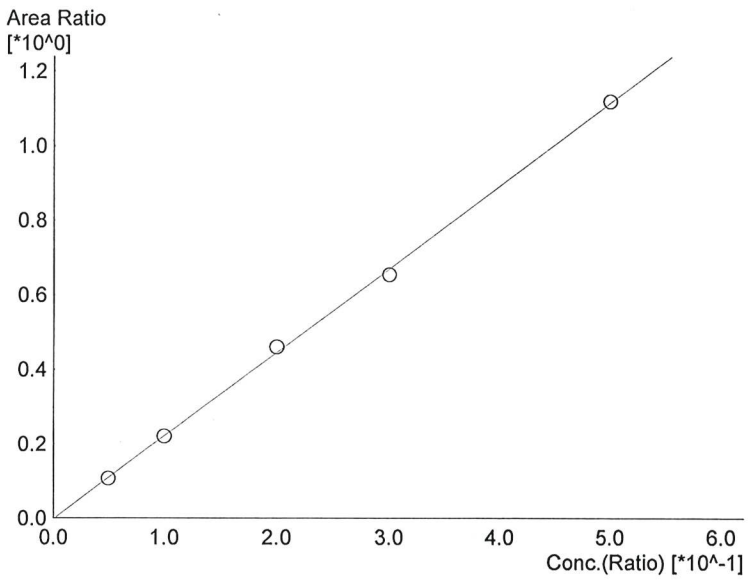
Name : Fluor. Hydrocarbon(s)
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



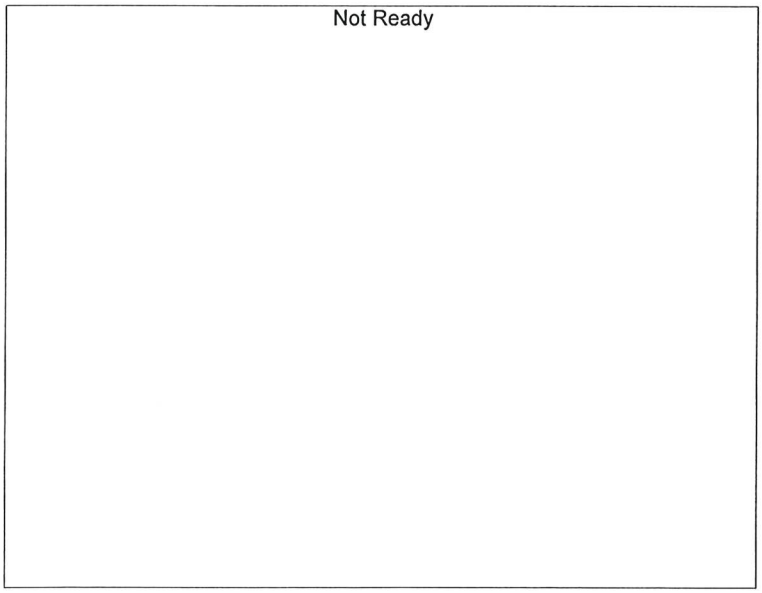
Name : Methanol
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



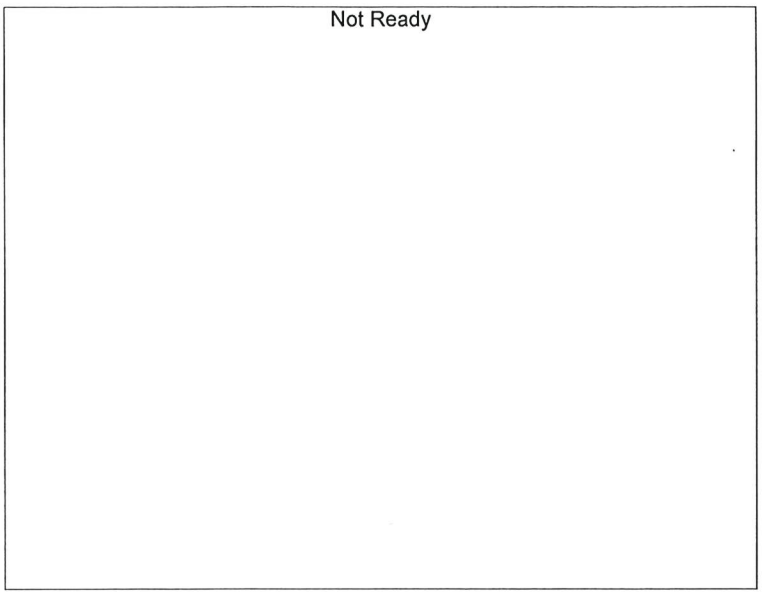
Name : Ethanol
Detector Name: FID2
Function : f(x)=2.23939*x-0.00302705
R^2 value= 0.9992865
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	21917	0.0490
2	0.100	46269	0.0995
3	0.200	111334	0.2065
4	0.300	133315	0.2933
5	0.500	241255	0.5015



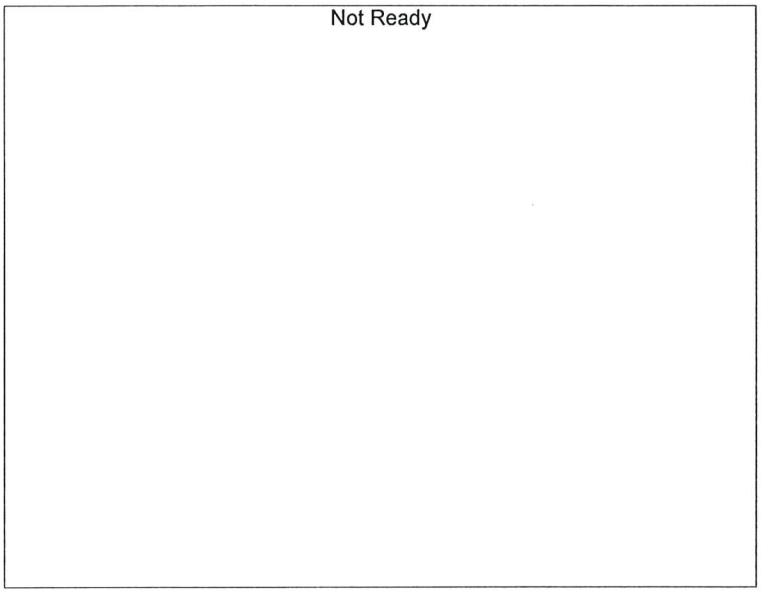
Name : Acetone
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	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

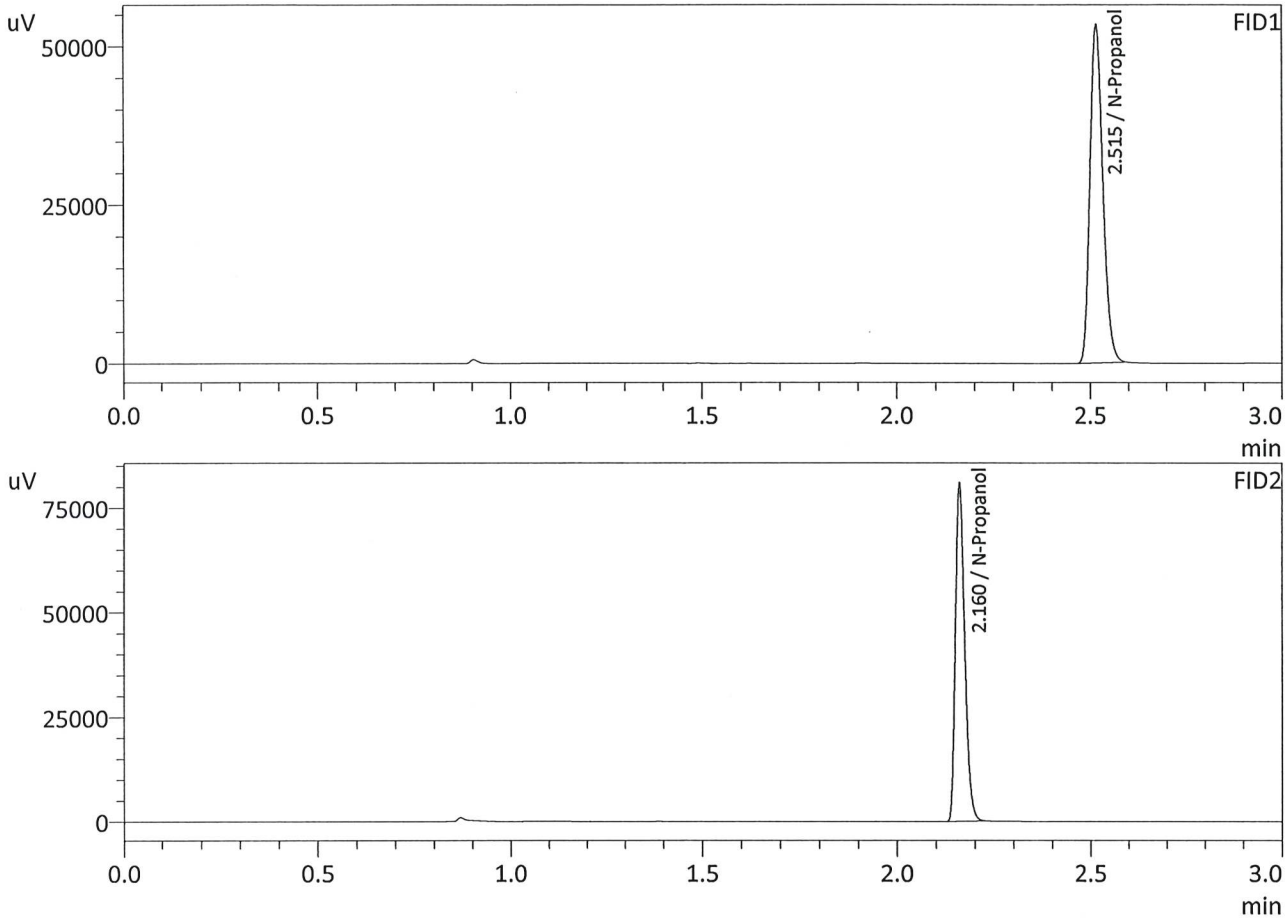
#	Conc.	Area	Std. Conc.



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.

Sample Name : INT STD BLK
Laboratory : Meridian
Injection Date : 10/4/2023 12:17:49 PM
Vial # : 6
Method Filename : Default Project - ALCOHOL_231004.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	124870	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	134902	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Meridian Blood Alcohol Analysis Batch Table

Shimadzu GC-2030 Serial #C12255750548
Shimadzu HS-20 Serial #C12595800409
Lab Solutions Database Software Ver. 6.111

Vial#	Sample Name	Sample Type	Level#	Method File
1	0.050	0:Unknown	1	ALCOHOL 231004.gcm
2	0.100	0:Unknown	2	ALCOHOL 231004.gcm
3	0.200	0:Unknown	3	ALCOHOL 231004.gcm
4	0.300	0:Unknown	4	ALCOHOL 231004.gcm
5	0.500	0:Unknown	5	ALCOHOL 231004.gcm
6	INT STD BLK	0:Unknown	0	ALCOHOL 231004.gcm

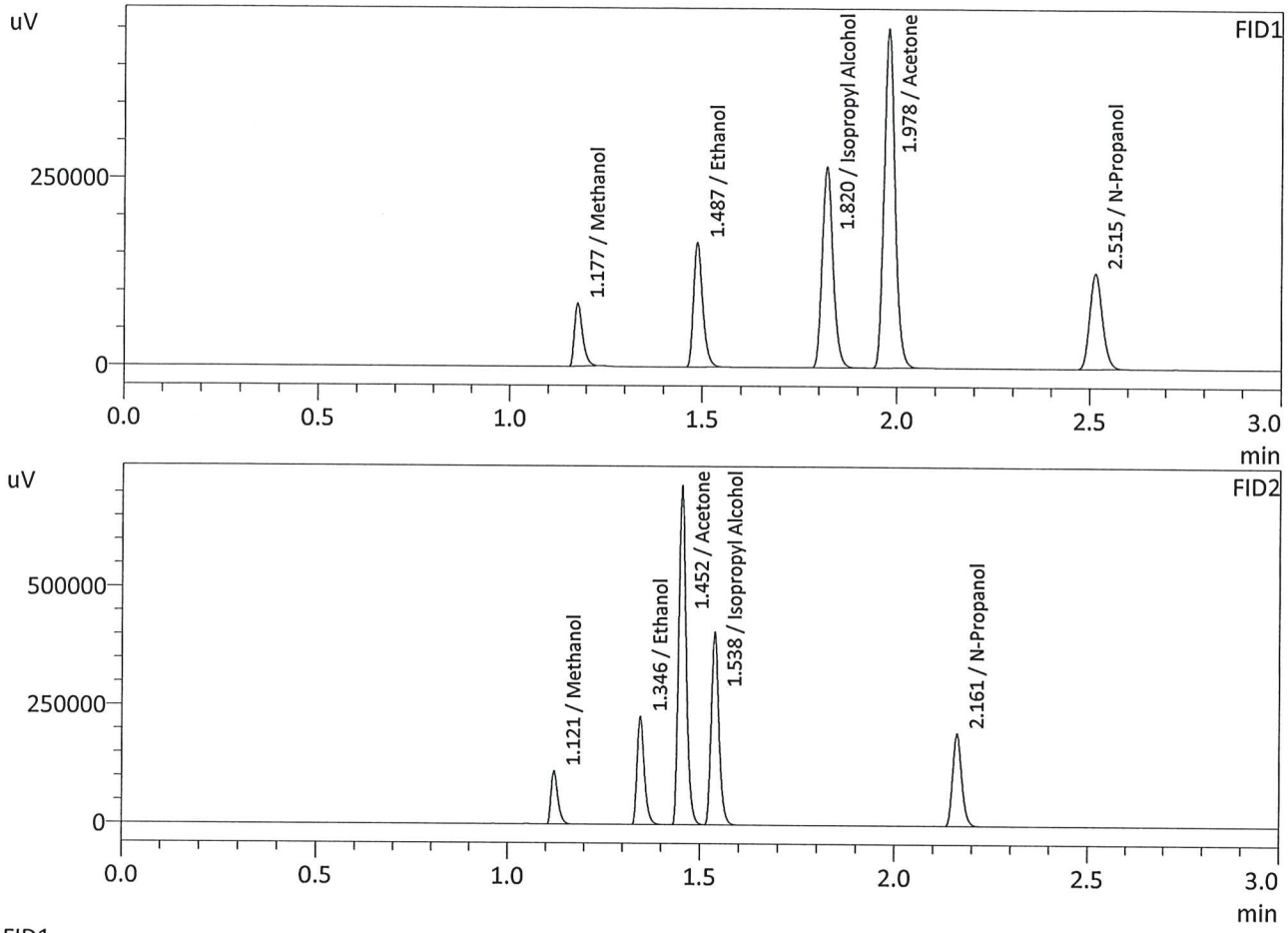
Meridian Blood Alcohol Analysis Batch Table

Shimadzu GC-2030 Serial #C12255750548
Shimadzu HS-20 Serial #C12595800409
Lab Solutions Database Software Ver. 6.111

Vial#	Sample Name	Sample Type	Level#	Method File
1	ISTD BLK 1	0:Unknown	0	ALCOHOL 231004.gcm
2	ED VOLATILES FN 0604	0:Unknown	1	ALCOHOL 231004.gcm
3	QC-1-1	0:Unknown	0	ALCOHOL 231004.gcm
4	QC-1-1-B	0:Unknown	0	ALCOHOL 231004.gcm
5	0.08 QA	0:Unknown	0	ALCOHOL 231004.gcm
6	0.08 QA-B	0:Unknown	0	ALCOHOL 231004.gcm
7	M2023-4145-1	0:Unknown	0	ALCOHOL 231004.gcm
8	M2023-4145-1-B	0:Unknown	0	ALCOHOL 231004.gcm
9	M2023-4164-1	0:Unknown	0	ALCOHOL 231004.gcm
10	M2023-4164-1-B	0:Unknown	0	ALCOHOL 231004.gcm
11	M2023-4176-1	0:Unknown	0	ALCOHOL 231004.gcm
12	M2023-4176-1-B	0:Unknown	0	ALCOHOL 231004.gcm
13	M2023-4177-1	0:Unknown	0	ALCOHOL 231004.gcm
14	M2023-4177-1-B	0:Unknown	0	ALCOHOL 231004.gcm
15	M2023-4193-1	0:Unknown	0	ALCOHOL 231004.gcm
16	M2023-4193-1-B	0:Unknown	0	ALCOHOL 231004.gcm
17	M2023-4194-2	0:Unknown	0	ALCOHOL 231004.gcm
18	M2023-4194-2-B	0:Unknown	0	ALCOHOL 231004.gcm
19	M2023-4210-2	0:Unknown	0	ALCOHOL 231004.gcm
20	M2023-4210-2-B	0:Unknown	0	ALCOHOL 231004.gcm
21	M2023-4220-1	0:Unknown	0	ALCOHOL 231004.gcm
22	M2023-4220-1-B	0:Unknown	0	ALCOHOL 231004.gcm
23	M2023-4221-1	0:Unknown	0	ALCOHOL 231004.gcm
24	M2023-4221-1-B	0:Unknown	0	ALCOHOL 231004.gcm
25	QC-2-1	0:Unknown	0	ALCOHOL 231004.gcm
26	QC-2-1-B	0:Unknown	0	ALCOHOL 231004.gcm
27	M2023-4222-1	0:Unknown	0	ALCOHOL 231004.gcm
28	M2023-4222-1-B	0:Unknown	0	ALCOHOL 231004.gcm
29	M2023-4223-1	0:Unknown	0	ALCOHOL 231004.gcm
30	M2023-4223-1-B	0:Unknown	0	ALCOHOL 231004.gcm
31	M2023-4224-1	0:Unknown	0	ALCOHOL 231004.gcm
32	M2023-4224-1-B	0:Unknown	0	ALCOHOL 231004.gcm
33	M2023-4225-1	0:Unknown	0	ALCOHOL 231004.gcm
34	M2023-4225-1-B	0:Unknown	0	ALCOHOL 231004.gcm
35	M2023-4255-1	0:Unknown	0	ALCOHOL 231004.gcm
36	M2023-4255-1-B	0:Unknown	0	ALCOHOL 231004.gcm
37	M2023-4257-1	0:Unknown	0	ALCOHOL 231004.gcm
38	M2023-4257-1-B	0:Unknown	0	ALCOHOL 231004.gcm
39	M2023-4274-1	0:Unknown	0	ALCOHOL 231004.gcm
40	M2023-4274-1-B	0:Unknown	0	ALCOHOL 231004.gcm
41	M2023-4275-1	0:Unknown	0	ALCOHOL 231004.gcm
42	M2023-4275-1-B	0:Unknown	0	ALCOHOL 231004.gcm
43	M2023-4292-3	0:Unknown	0	ALCOHOL 231004.gcm
44	M2023-4292-3-B	0:Unknown	0	ALCOHOL 231004.gcm
45	M2023-4294-1	0:Unknown	0	ALCOHOL 231004.gcm
46	M2023-4294-1-B	0:Unknown	0	ALCOHOL 231004.gcm
47	QC-1-2	0:Unknown	0	ALCOHOL 231004.gcm
48	QC-1-2-B	0:Unknown	0	ALCOHOL 231004.gcm
49	QC-2-2	0:Unknown	0	ALCOHOL 231004.gcm
50	QC-2-2-B	0:Unknown	0	ALCOHOL 231004.gcm
51	ISTD BLK 2	0:Unknown	0	ALCOHOL 231004.gcm

* Internal Standard is out of tolerance. Not reported at this time. Sample will be re-extracted and reanalyzed. 10/5/23 BO

Sample Name : MIXED VOLATILES FN 06041902
Laboratory : Meridian
Injection Date : 10/4/2023 1:15:40 PM
Vial # : 2
Method Filename : Default Project - ALCOHOL_231004.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	0.0000	123518	g/100cc
Ethanol	0.4156	273610	g/100cc
Isopropyl Alcohol	0.0000	520220	g/100cc
Acetone	0.0000	884413	g/100cc
N-Propanol	0.0000	295891	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	0.0000	138963	g/100cc
Ethanol	0.4168	299255	g/100cc
Acetone	0.0000	960763	g/100cc
Isopropyl Alcohol	0.0000	562534	g/100cc
N-Propanol	0.0000	321613	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: 0.08 QA **Analysis Date(s): 10/4/2023 1:39:22 PM(-06:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0765	0.0762	0.0003	0.0763	0.0014	0.0770
(g/100cc)	0.0780	0.0775	0.0005	0.0777		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_231004.gcm

Reporting of Results	Uncertainty of Measurements (UM%):	5.00%

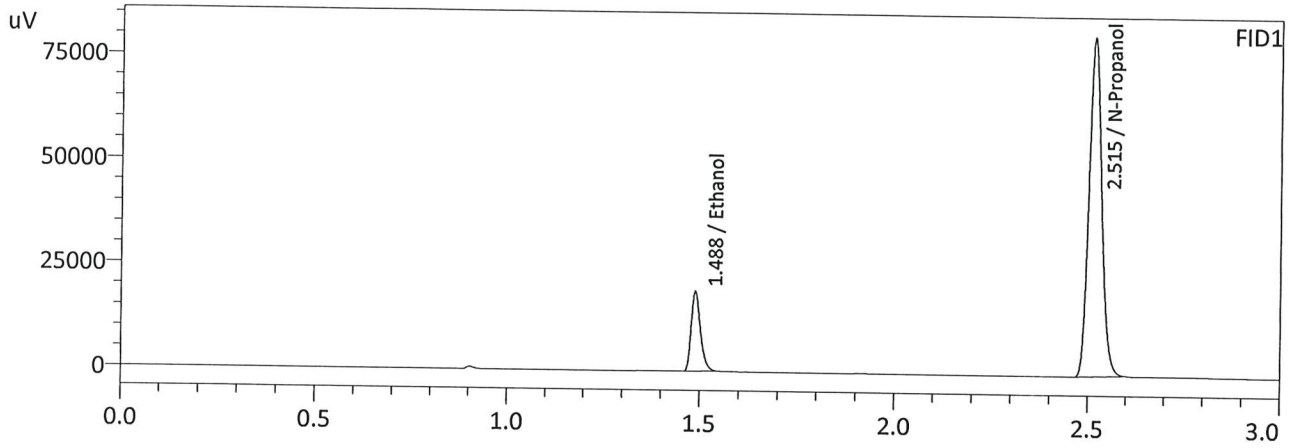
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.077	0.073	0.081	0.004

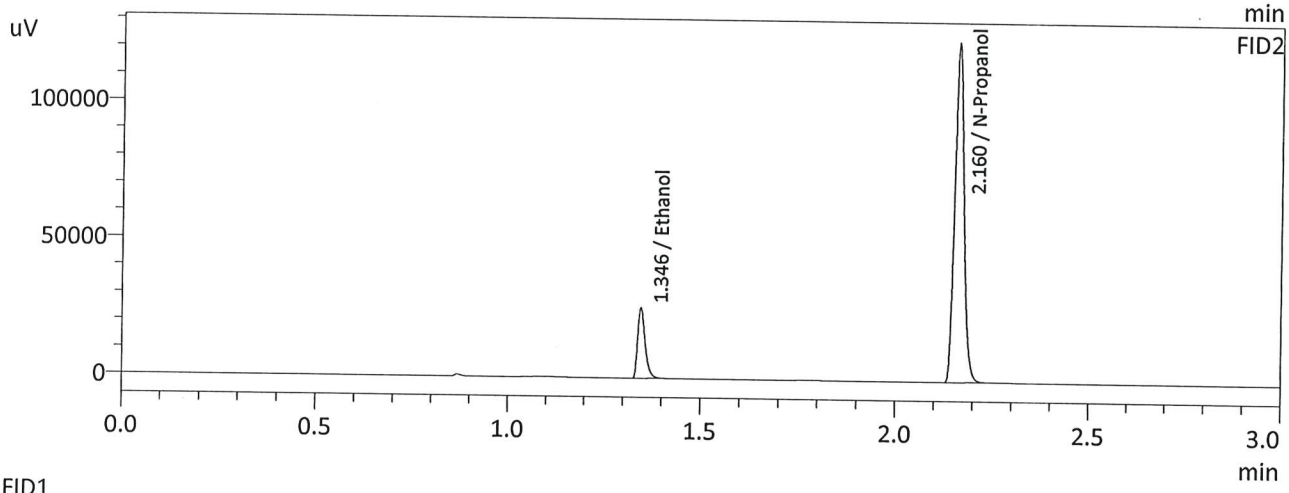
Reported Results
0.077

Calibration and control data are stored centrally.

W

Sample Name : 0.08 QA
Laboratory : Meridian
Injection Date : 10/4/2023 1:39:22 PM
Vial # : 5
Method Filename : Default Project - ALCOHOL_231004.gcm
Instrument #GC/HS : C12255750548 / C12595800409





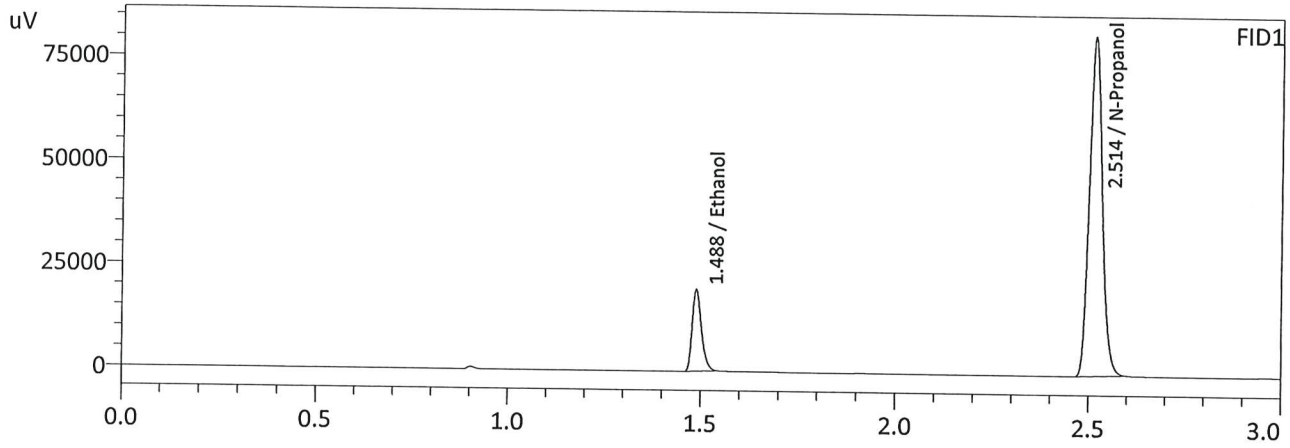
FID1

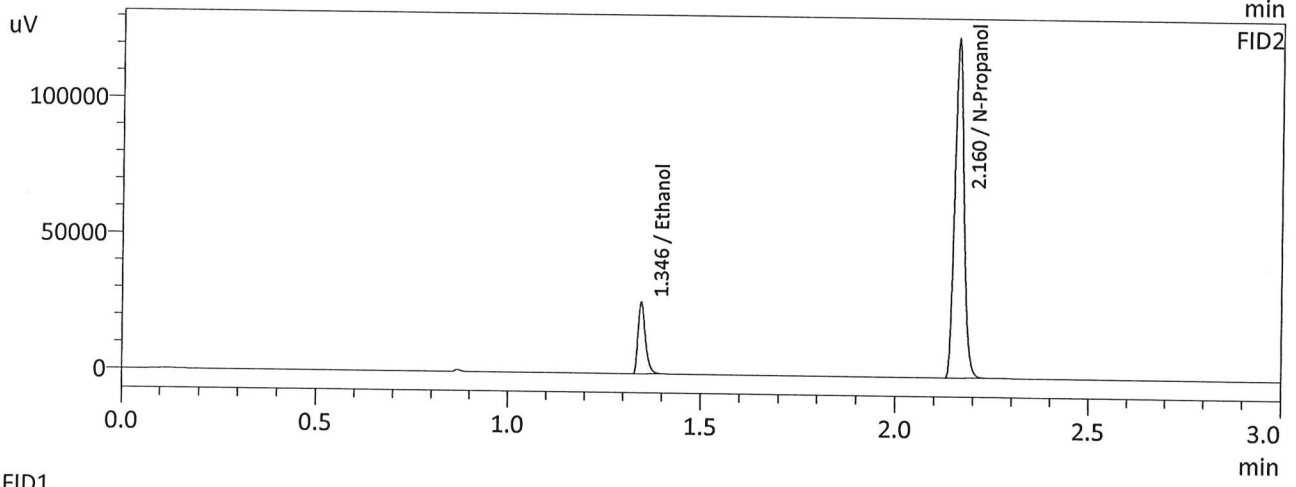
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0765	31852	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	189666	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0762	34416	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	205187	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.08 QA-B
Laboratory : Meridian
Injection Date : 10/4/2023 1:47:55 PM
Vial # : 6
Method Filename : Default Project - ALCOHOL_231004.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0780	32665	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	190735	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0775	35261	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	206601	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-1-1 Analysis Date(s): 10/4/2023 1:23:03 PM(-06:00)

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0773	0.0768	0.0005	0.0770	0.0010	0.0765
(g/100cc)	0.0763	0.0758	0.0005	0.0760		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_231004.gcm

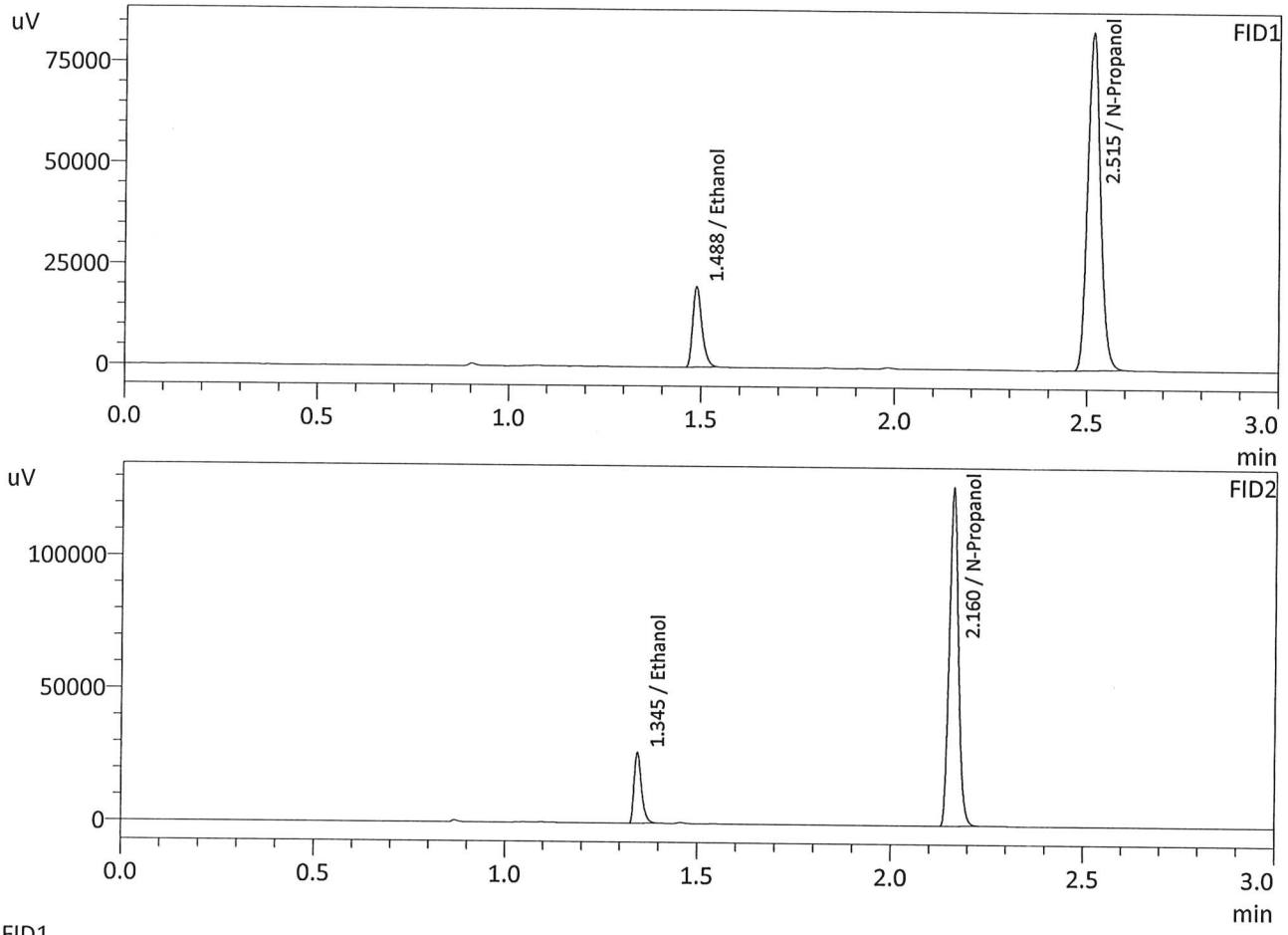
Reporting of Results	Uncertainty of Measurements (UM%):	5.00%

Overall Mean (g/100cc)	Low	High	5 % of Mean
0.076	0.072	0.080	0.004

Reported Results
0.076

Calibration and control data are stored centrally.

Sample Name : QC-1-1
Laboratory : Meridian
Injection Date : 10/4/2023 1:23:03 PM
Vial # : 3
Method Filename : Default Project - ALCOHOL_231004.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

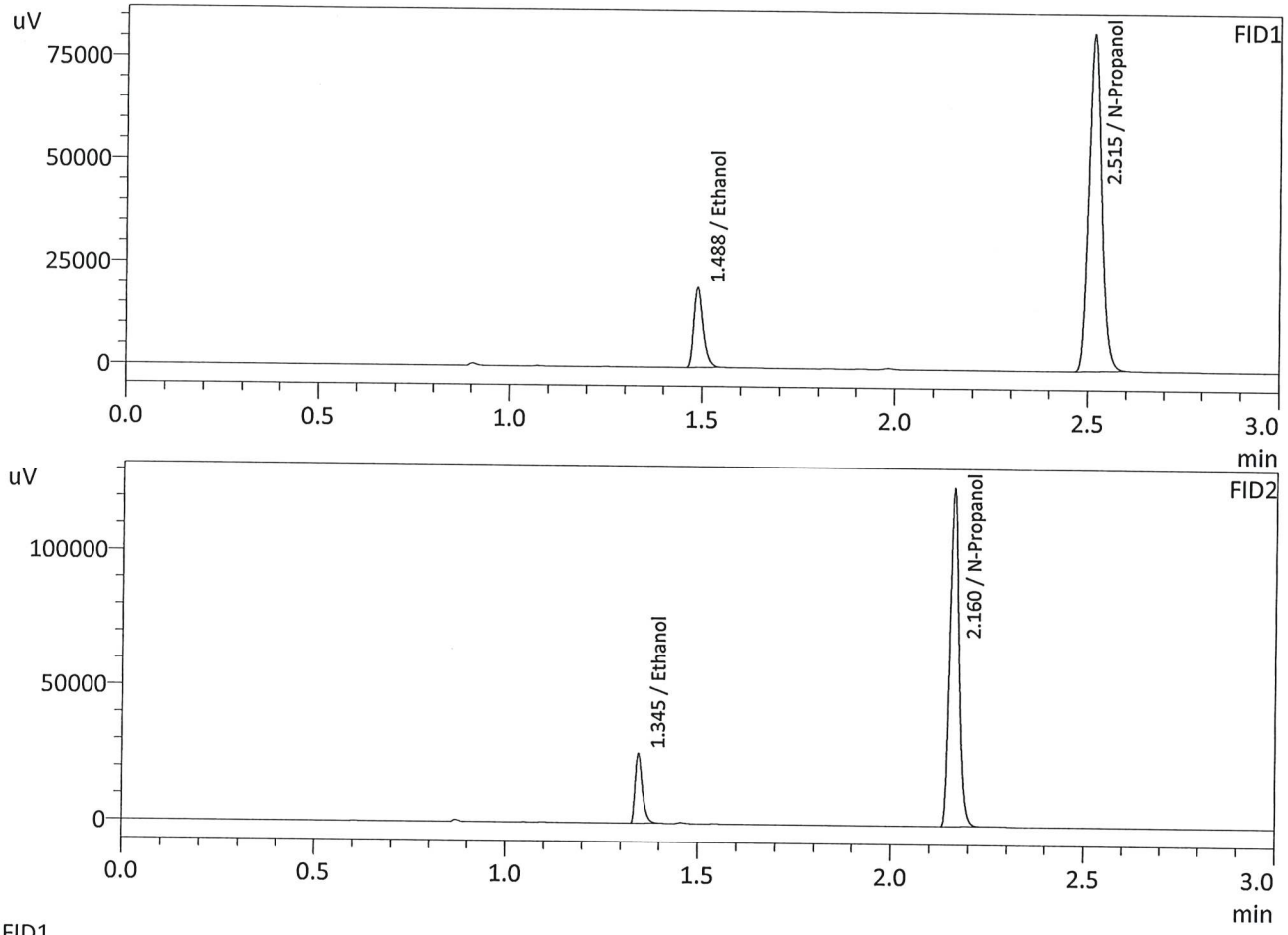
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0773	33113	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	194984	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0768	35697	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	211054	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC-1-1-B
Laboratory : Meridian
Injection Date : 10/4/2023 1:31:48 PM
Vial # : 4
Method Filename : Default Project - ALCOHOL_231004.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0763	32099	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	191701	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0758	34565	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	207182	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-1-2 **Analysis Date(s): 10/4/2023 7:17:34 PM(-06:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0801	0.0798	0.0003	0.0799	0.0004	0.0801
(g/100cc)	0.0805	0.0802	0.0003	0.0803		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information — Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_231004.gcm

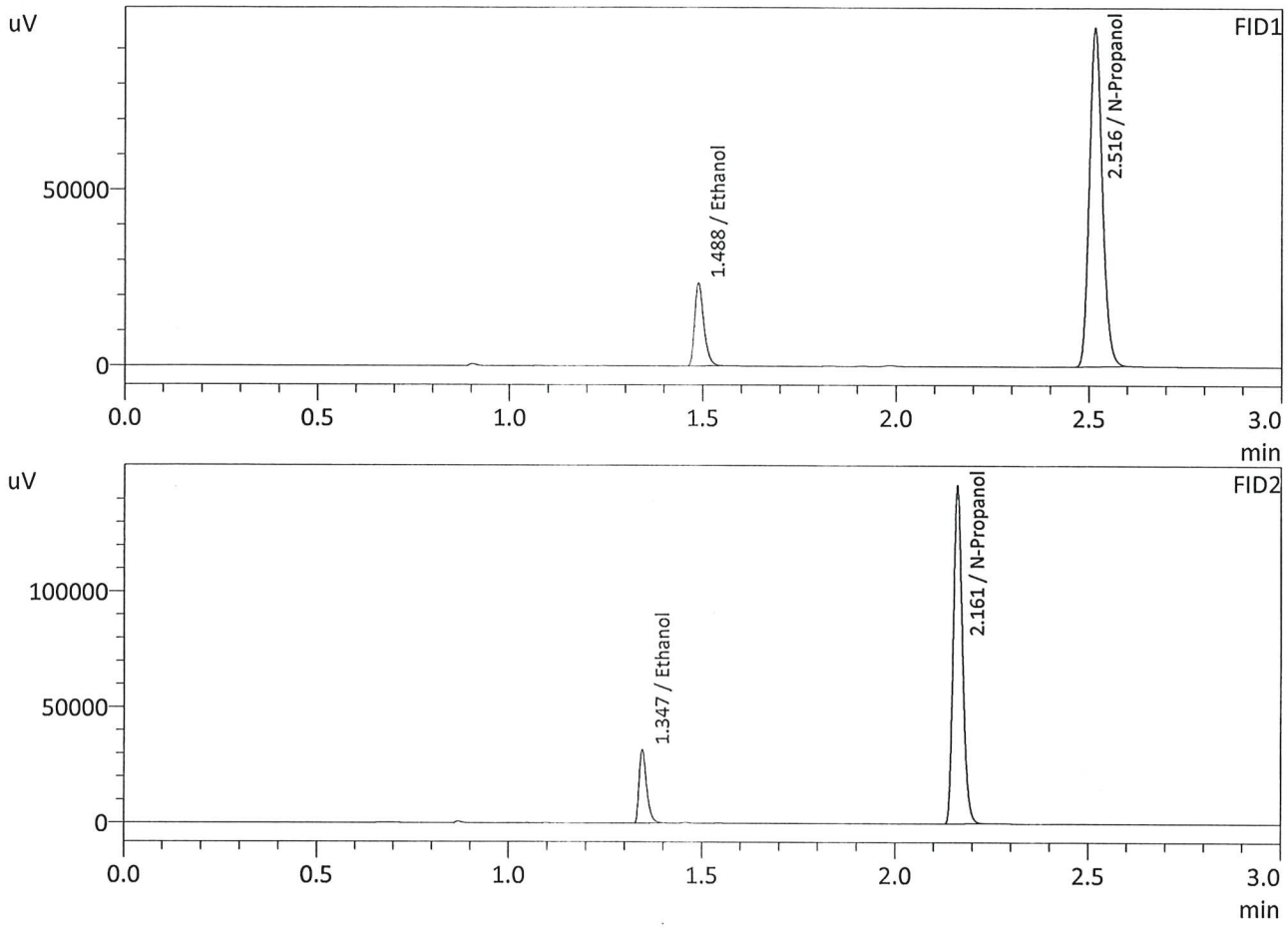
Reporting of Results	Uncertainty of Measurements (UM%):	5.00%

Overall Mean (g/100cc)	Low	High	5 % of Mean
0.080	0.076	0.084	0.004

Reported Results
0.080

Calibration and control data are stored centrally.

Sample Name : QC-1-2
Laboratory : Meridian
Injection Date : 10/4/2023 7:17:34 PM
Vial # : 47
Method Filename : Default Project - ALCOHOL_231004.gcm
Instrument #GC/HS : C12255750548 / C12595800409



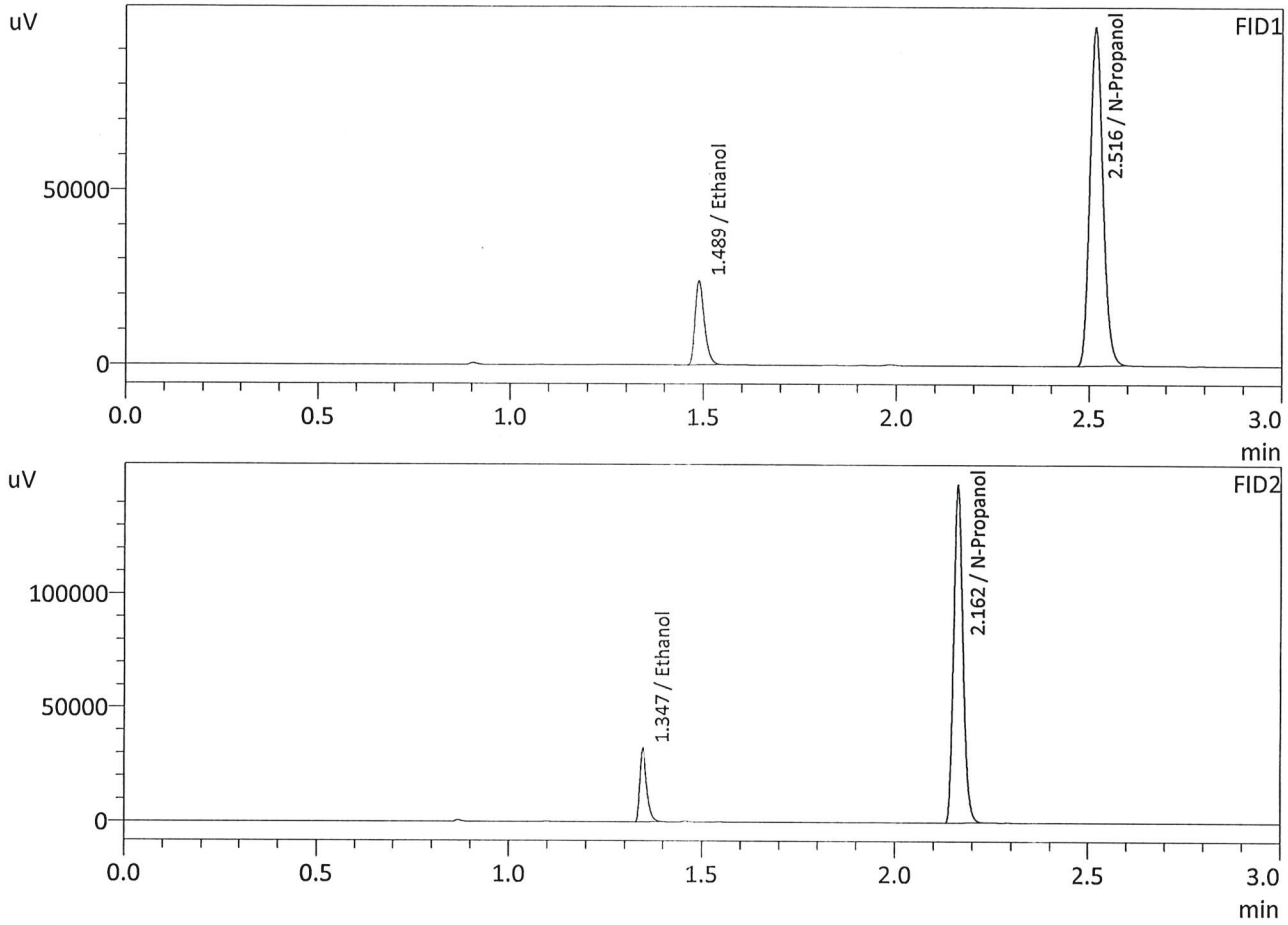
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0801	39326	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	223555	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0798	42525	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	242043	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : QC-1-2-B
Laboratory : Meridian
Injection Date : 10/4/2023 7:27:19 PM
Vial # : 48
Method Filename : Default Project - ALCOHOL_231004.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0805	39952	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	225771	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0802	43220	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	244714	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-2-1 **Analysis Date(s): 10/4/2023 4:21:17 PM(-06:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2044	0.2039	0.0005	0.2041	0.0025	0.2029
(g/100cc)	0.2018	0.2015	0.0003	0.2016		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information — Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_231004.gcm

Reporting of Results	Uncertainty of Measurements (UM%):	5.00%

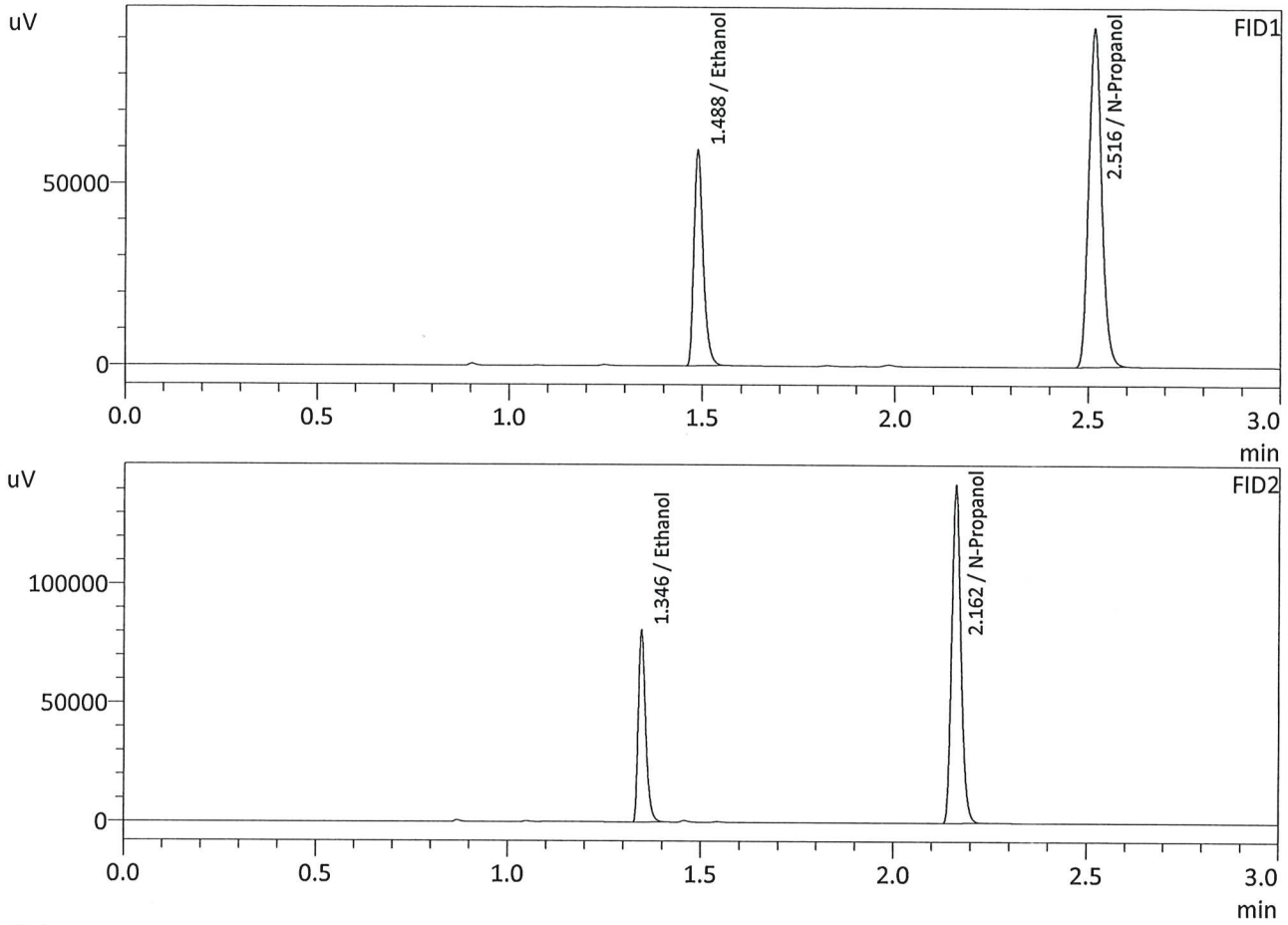
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.202	0.191	0.213	0.011

Reported Results
0.202

Calibration and control data are stored centrally.

W

Sample Name : QC-2-1
Laboratory : Meridian
Injection Date : 10/4/2023 4:21:17 PM
Vial # : 25
Method Filename : Default Project - ALCOHOL_231004.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

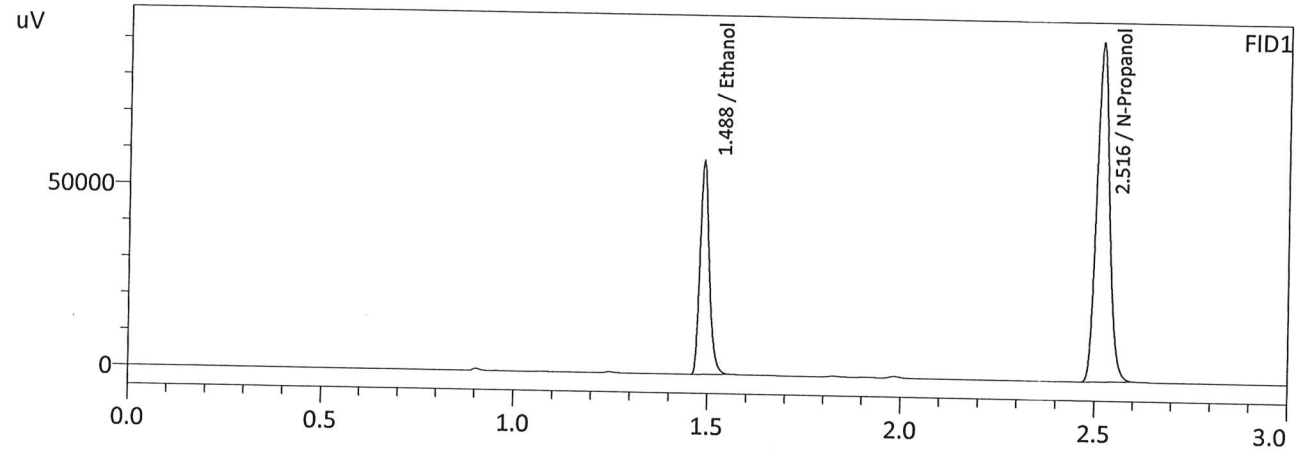
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2044	98552	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	217418	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

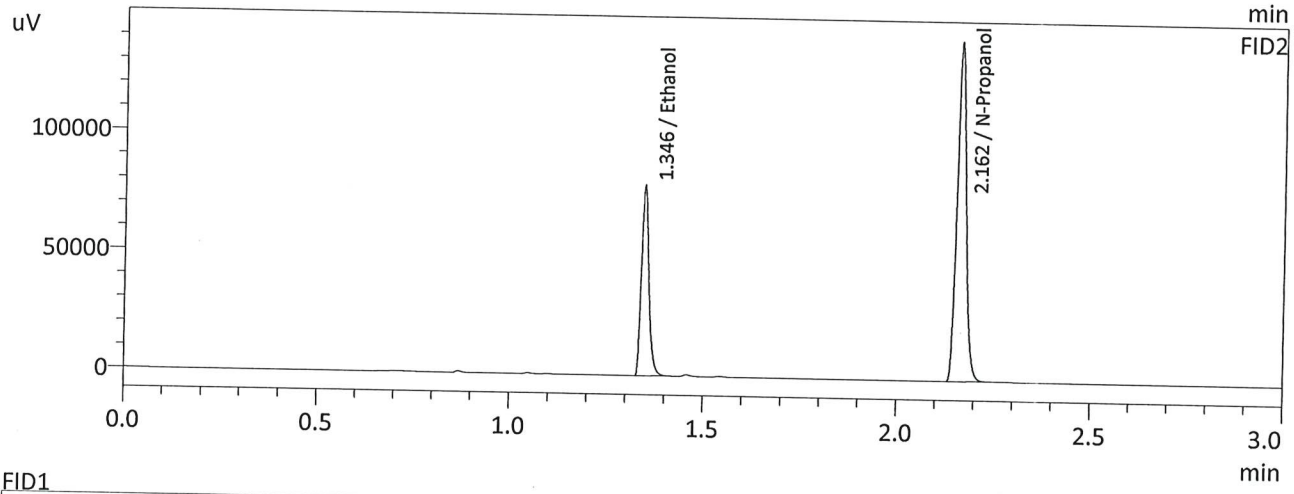
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2039	106899	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	235629	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC-2-1-B
Laboratory : Meridian
Injection Date : 10/4/2023 4:29:55 PM
Vial # : 26
Method Filename : Default Project - ALCOHOL_231004.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2018	97134	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	216992	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2015	105418	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	235125	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-2-2 **Analysis Date(s): 10/4/2023 7:34:40 PM(-06:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2051	0.2046	0.0005	0.2048	0.0011	0.2054
(g/100cc)	0.2062	0.2057	0.0005	0.2059		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information Instrument information is stored centrally.

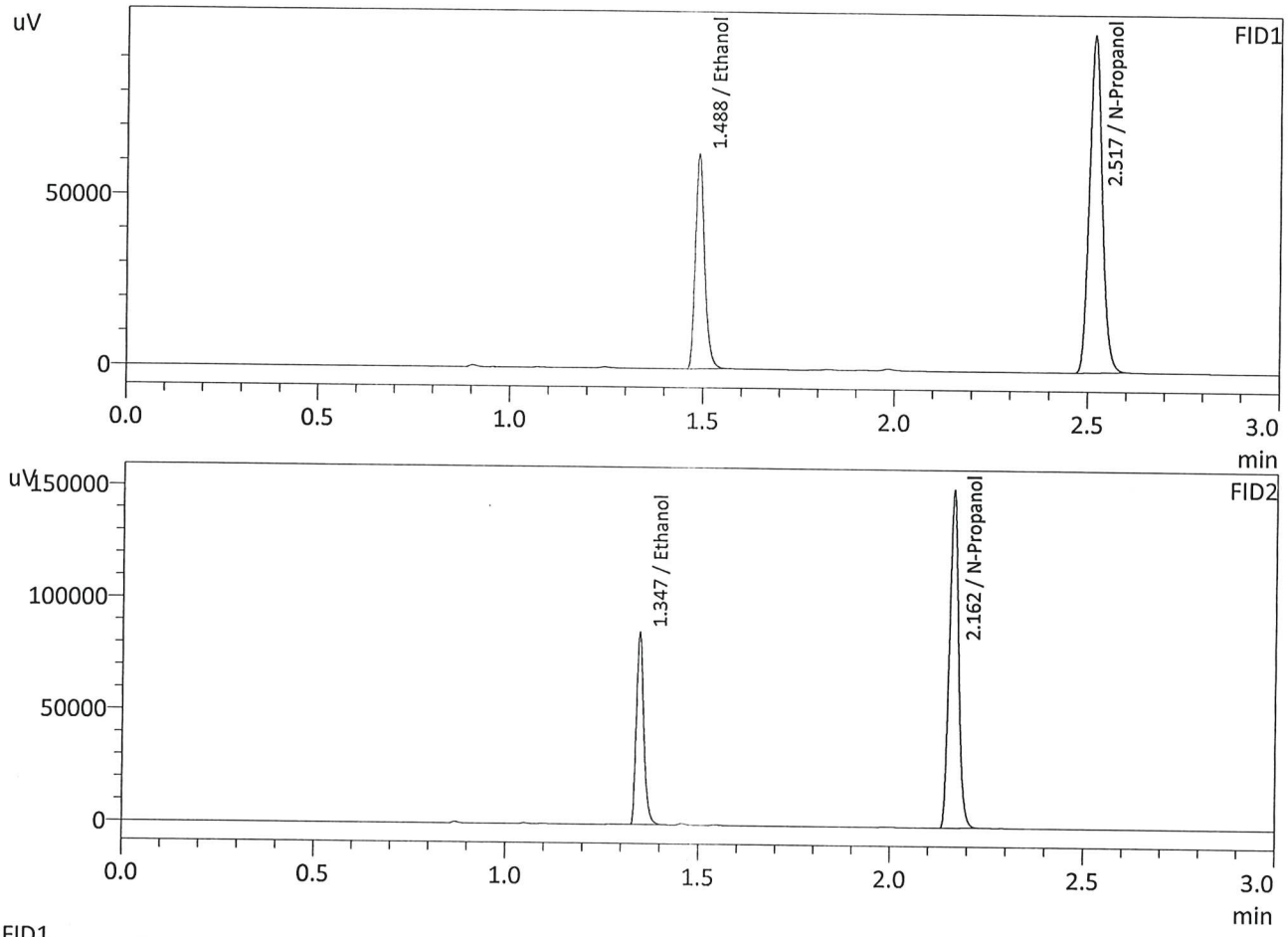
Refer To Instrument Method: ALCOHOL_231004.gcm

Reporting of Results	Uncertainty of Measurements (UM%):	5.00%
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.205	0.194	0.216	0.011

	Reported Results	
	0.205	

Calibration and control data are stored centrally.

Sample Name : QC-2-2
Laboratory : Meridian
Injection Date : 10/4/2023 7:34:40 PM
Vial # : 49
Method Filename : Default Project - ALCOHOL_231004.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

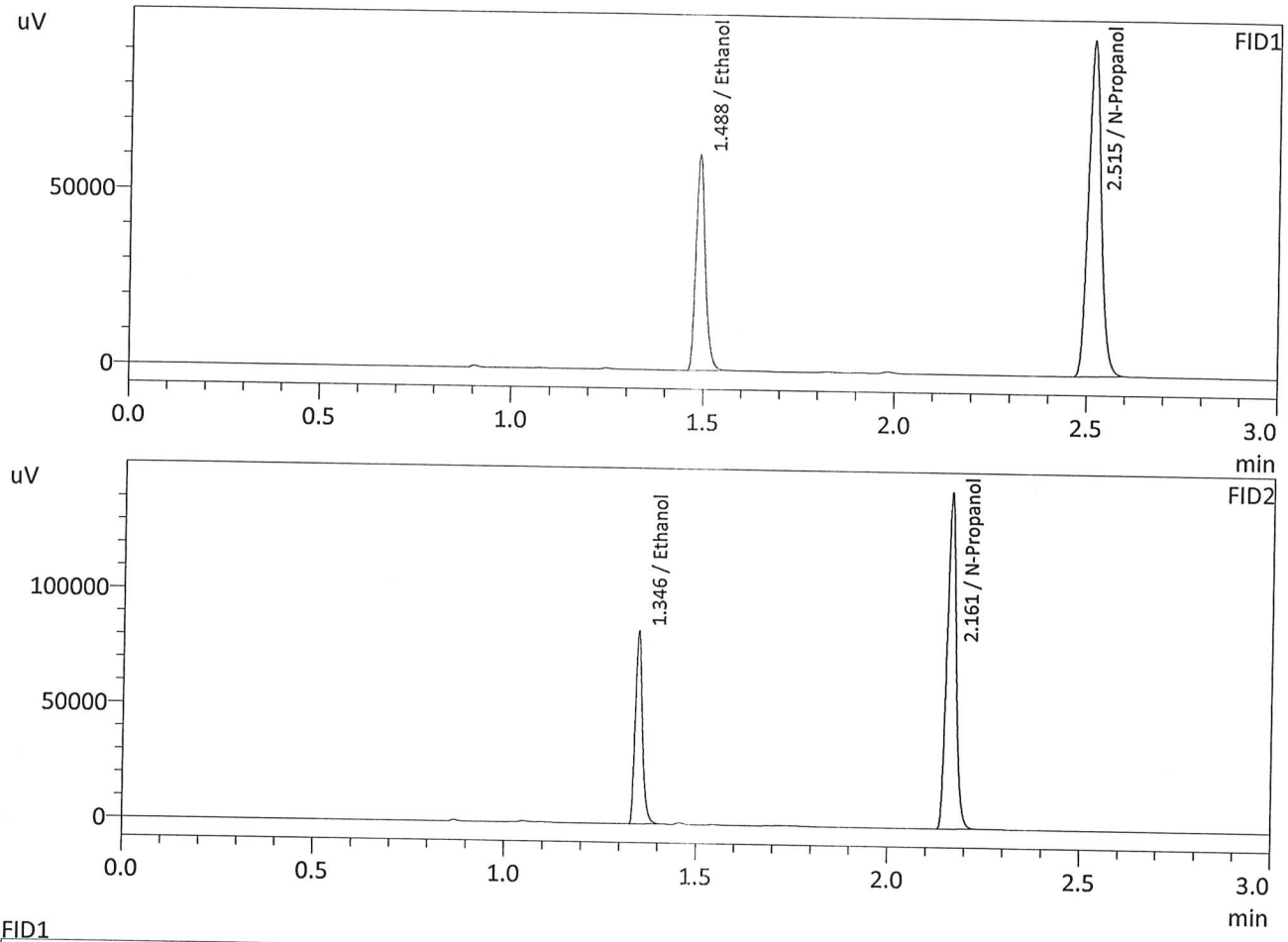
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2051	104245	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	229182	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2046	113114	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	248465	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC-2-2-B
Laboratory : Meridian
Injection Date : 10/4/2023 7:42:17 PM
Vial # : 50
Method Filename : Default Project - ALCOHOL_231004.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

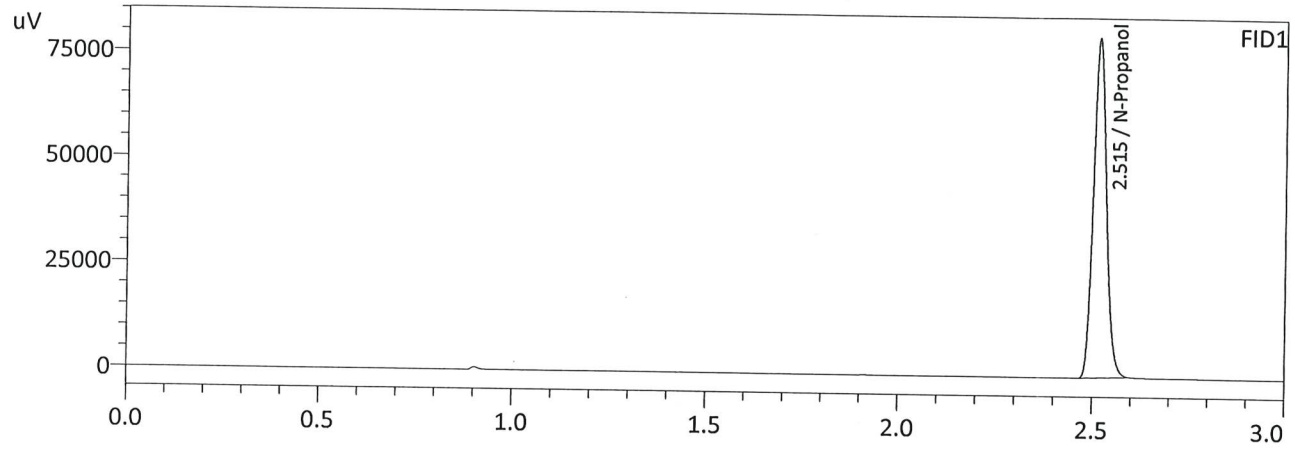
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2062	102102	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	223259	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

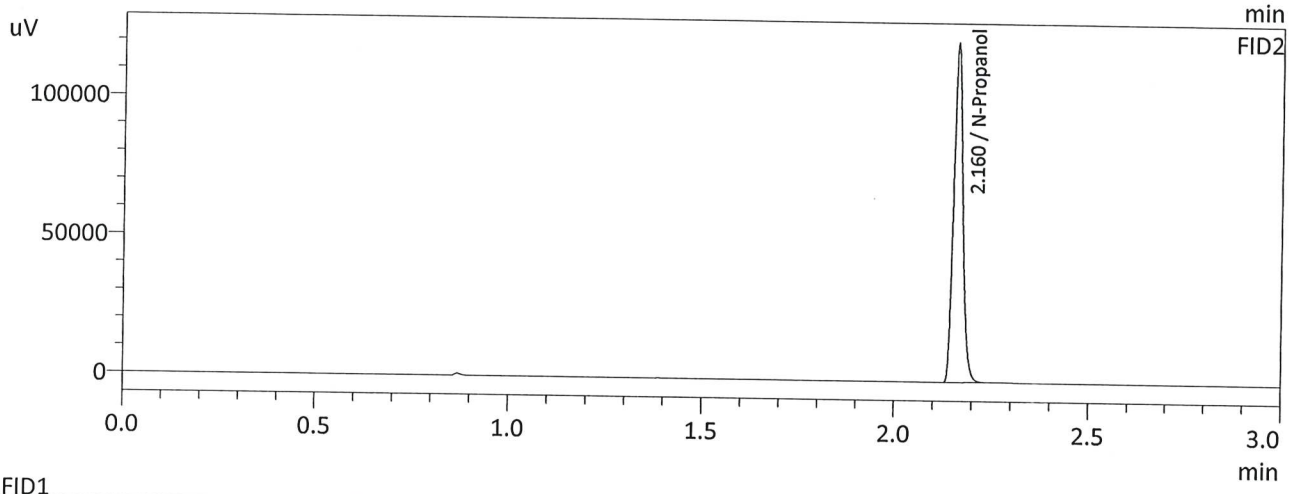
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2057	110752	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	241908	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : ISTD BLK 1
Laboratory : Meridian
Injection Date : 10/4/2023 1:08:20 PM
Vial # : 1
Method Filename : Default Project - ALCOHOL_231004.gcm
Instrument #GC/HS : C12255750548 / C12595800409





FID1

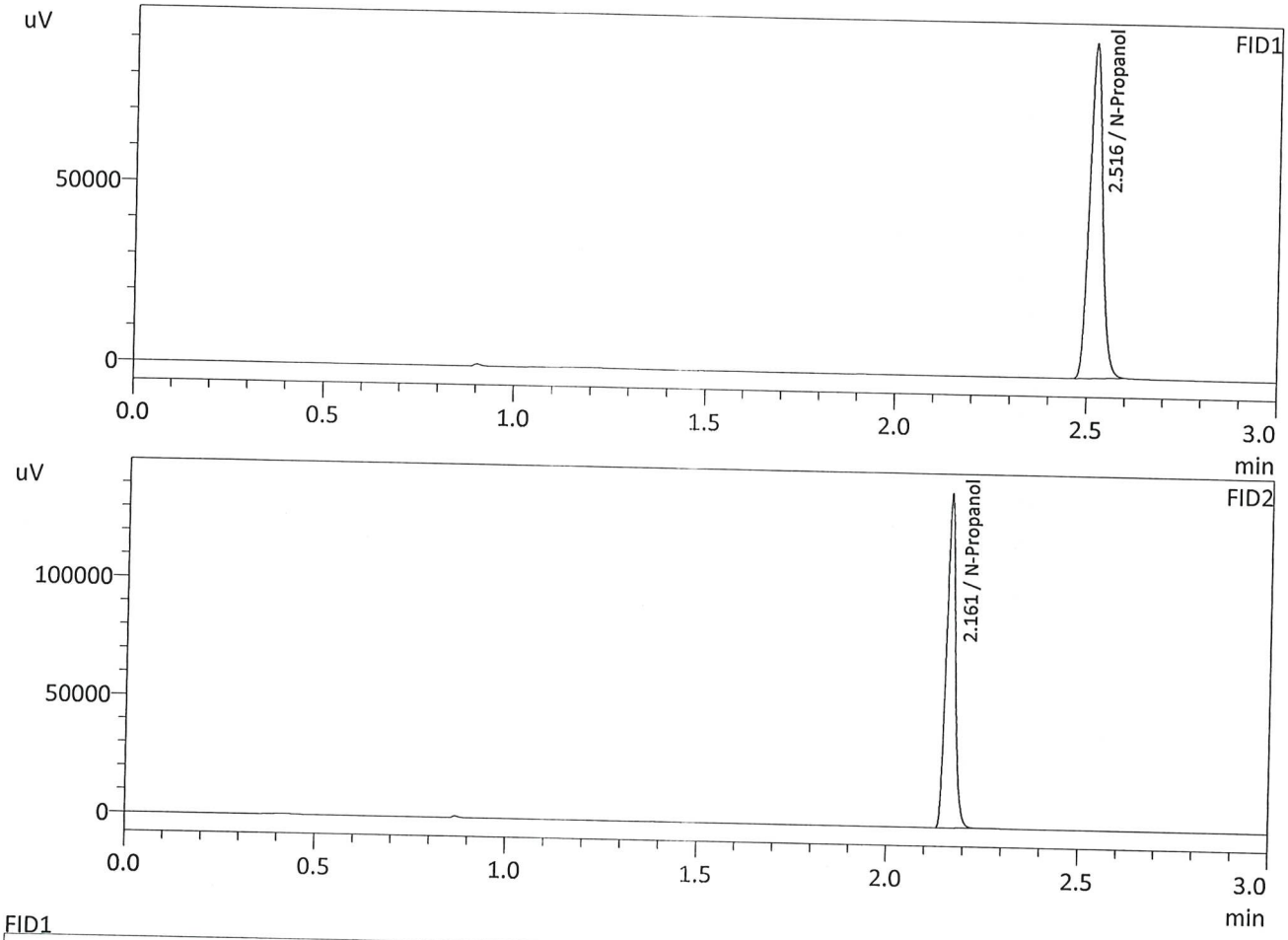
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	187309	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	202403	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : ISTD BLK 2
Laboratory : Meridian
Injection Date : 10/4/2023 7:51:13 PM
Vial # : 51
Method Filename : Default Project - ALCOHOL_231004.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	216481	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	234129	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W