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): 12/21/2023

Calibration Date: 12/21/2023

Worklist #: 6617

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Feb-25	2101199	0.0808	0.0727-0.0889	0.0779 g/100cc
					0.0826 g/100cc
					g/100cc
Level 2	Mar-26	2110181	0.2030	0.1827-0.2233	0.2056 g/100cc
					0.2088 g/100cc
					g/100cc

Multi-Component mixture:	Exp:	10/31/2024	Lot #	FN06041902	
Curve Fit:		**Column 1**	0.99995	**Column2**	0.99995

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0513	0.0508	0.0005	0.051
100	0.100	0.090 - 0.110	0.1001	0.1008	0.0007	0.1004
200	0.200	0.180 - 0.220	0.1983	0.1982	0.0001	0.1982
300	0.300	0.270 - 0.330	0.2991	0.2990	1E-04	0.299
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5009	0.5009	0	0.5009

Aqueous Controls

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

REVIEWED
By Rachel Cutler at 12:54 pm, Dec 22, 2023

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

Internal Standard Monitoring Worksheet

Worklist #:	6617	Run Date(s):	12/21/2023

Internal Standard Solution:	Prep Date:	12/5/2023	Exp Date:	6/5/2024

Sample Name	Column 1 Value	Column 2 Value
0.080	185186	200244
0.080	183102	197936
QC1	186255	201059
QC1	186862	201269
QC1	218263	236615
QC1	220727	239020
QC1		
QC1		
QC2	212947	230647
QC2	217284	235340
QC2	228338	247267
QC2	240276	260498
QC2		
QC2		

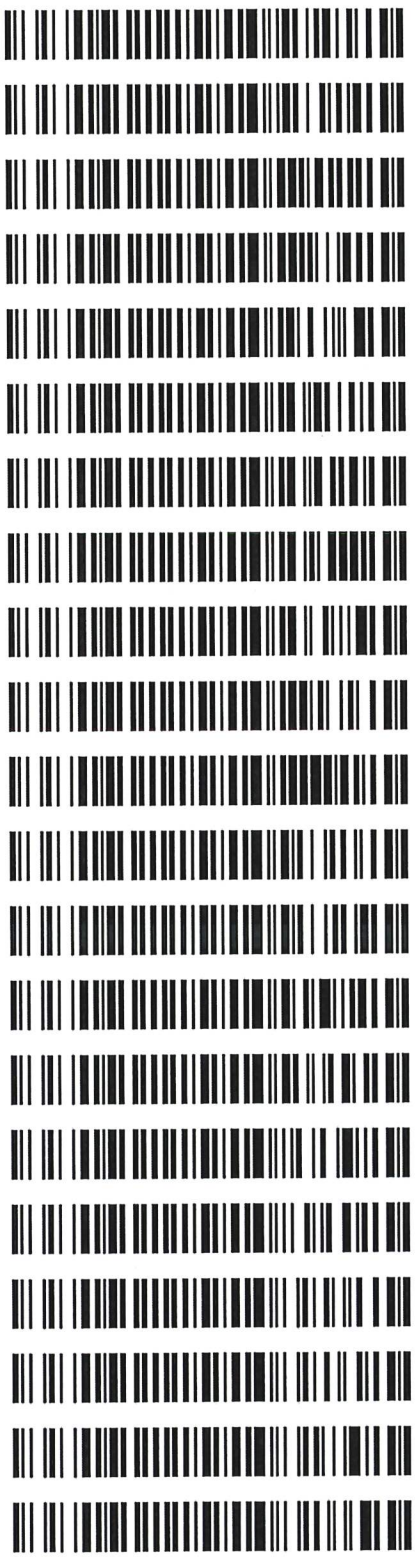
	Average	(-)20%	(+)20%
Column 1	207924.0	166339.2	249508.8
Column 2	224989.5	179991.6	269987.4

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

12/22/2023

Worklist: 6617

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2023-5240	1	BCK	Alcohol Analysis
M2023-5248	1	BCK	Alcohol Analysis
M2023-5277	1	BCK	Alcohol Analysis
M2023-5287	1	BCK	Alcohol Analysis
M2023-5300	1	BCK	Alcohol Analysis
M2023-5304	1	BCK	Alcohol Analysis
M2023-5305	1	BCK	Alcohol Analysis
M2023-5306	1	BCK	Alcohol Analysis
M2023-5317	1	BCK	Alcohol Analysis
M2023-5329	1	BCK	Alcohol Analysis
M2023-5334	1	BCK	Alcohol Analysis
M2023-5343	1	BCK	Alcohol Analysis
M2023-5344	1	BCK	Alcohol Analysis
M2023-5366	1	BCK	Alcohol Analysis
M2023-5383	1	BCK	Alcohol Analysis
M2023-5395	1	BCK	Alcohol Analysis
M2023-5407	1	BCK	Alcohol Analysis
M2023-5419	1	BCK	Alcohol Analysis
M2023-5420	1	BCK	Alcohol Analysis
M2023-5421	1	BCK	Alcohol Analysis
M2023-5422	1	BCK	Alcohol Analysis



Worklist: 6617

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2023-5423	1	BCK	Alcohol Analysis

Meridian Blood Alcohol Analysis Batch Table

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

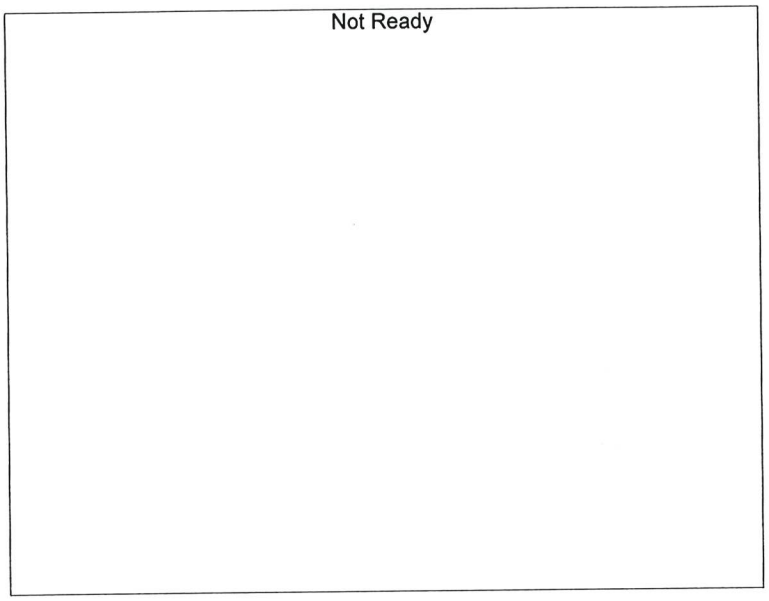
Vial#	Sample Name	Sample Type	Level#	Method File
1	0.050	0:Unknown	1	ALCOHOL 231221GG.gcm
2	0.100	0:Unknown	2	ALCOHOL 231221GG.gcm
3	0.200	0:Unknown	3	ALCOHOL 231221GG.gcm
4	0.300	0:Unknown	4	ALCOHOL 231221GG.gcm
5	0.500	0:Unknown	5	ALCOHOL 231221GG.gcm
6	INT STD BLK	0:Unknown	0	ALCOHOL 231221GG.gcm

W

Calibration Table

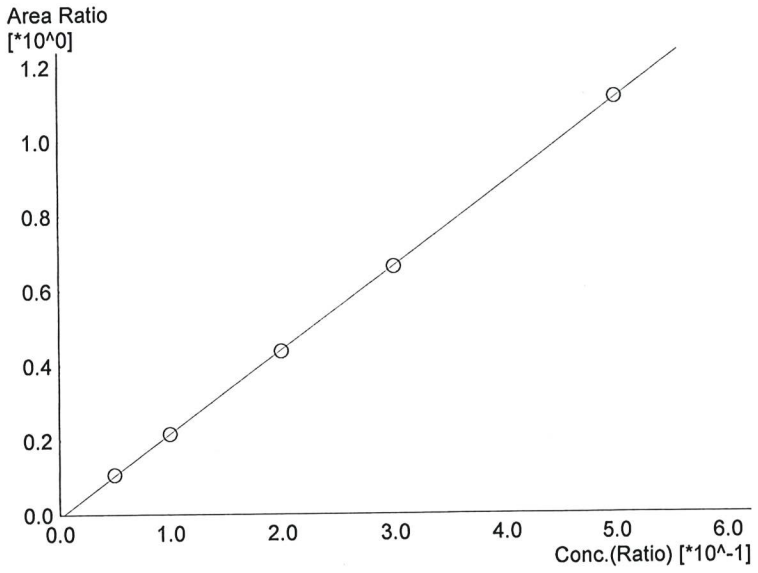
Laboratory : MERIDIAN
Instrument Name : GC-BAC
Instrument Serial # : C12595800409 / C12255750548

<<Data File>>
Method File :Default Project - ALCOHOL_231221GG.gcm
Batch File :Default Project - CALCURVE_231221GG.gcb
Date Acquired :12/21/2023 11:55:55 AM
Date Created :12/21/2023 11:50:31 AM
Date Modified :12/21/2023 12:15:06 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)=2.24186*x-0.00826571
R^2 value= 0.9999518
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	19643	0.0513
2	0.100	39791	0.1001
3	0.200	79273	0.1983
4	0.300	121379	0.2991
5	0.500	215162	0.5009

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

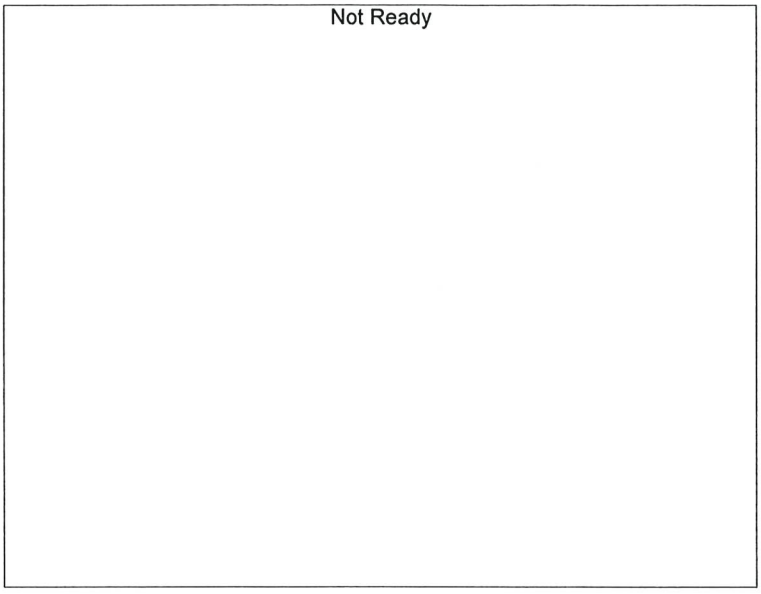
Name : Acetone
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.

Not Ready

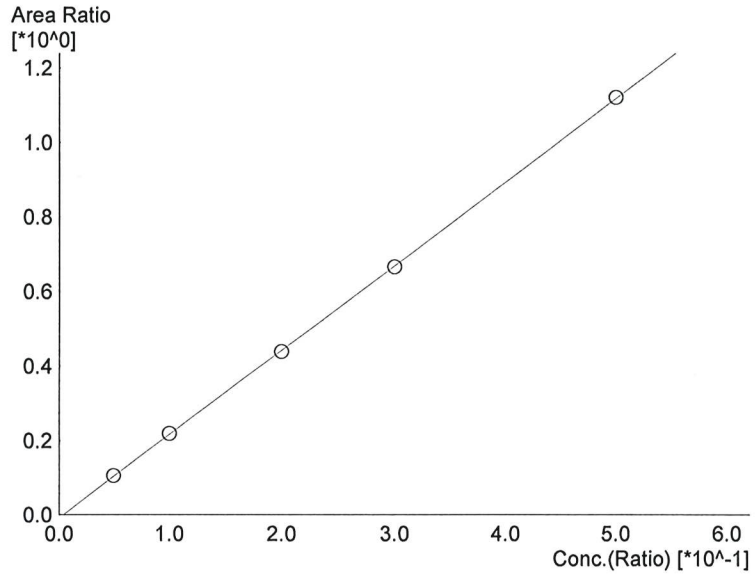
Name : Fluor. Hydrocarbon(s)
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



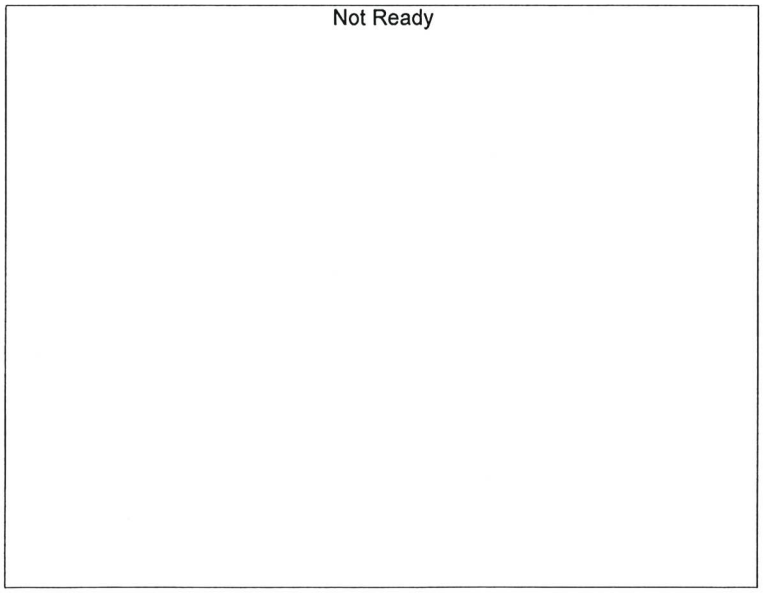
Name : Methanol
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.



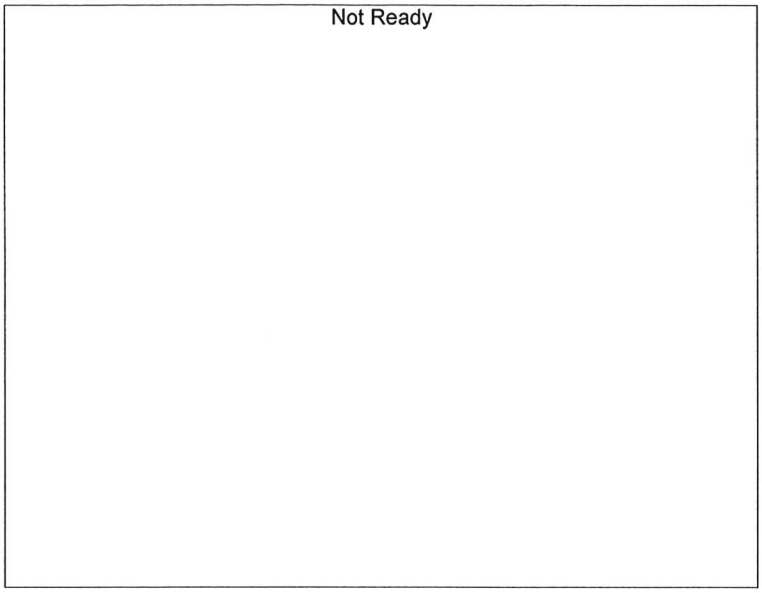
Name : Ethanol
Detector Name: FID2
Function : f(x)=2.25498*x-0.00903825
R^2 value= 0.9999519
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	20908	0.0508
2	0.100	43302	0.1008
3	0.200	85796	0.1982
4	0.300	131435	0.2990
5	0.500	233453	0.5009



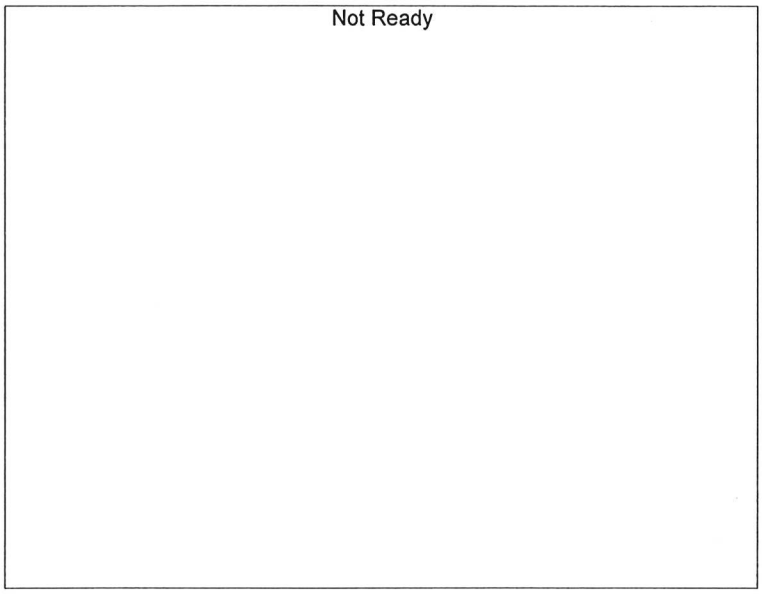
Name : Acetone
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	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

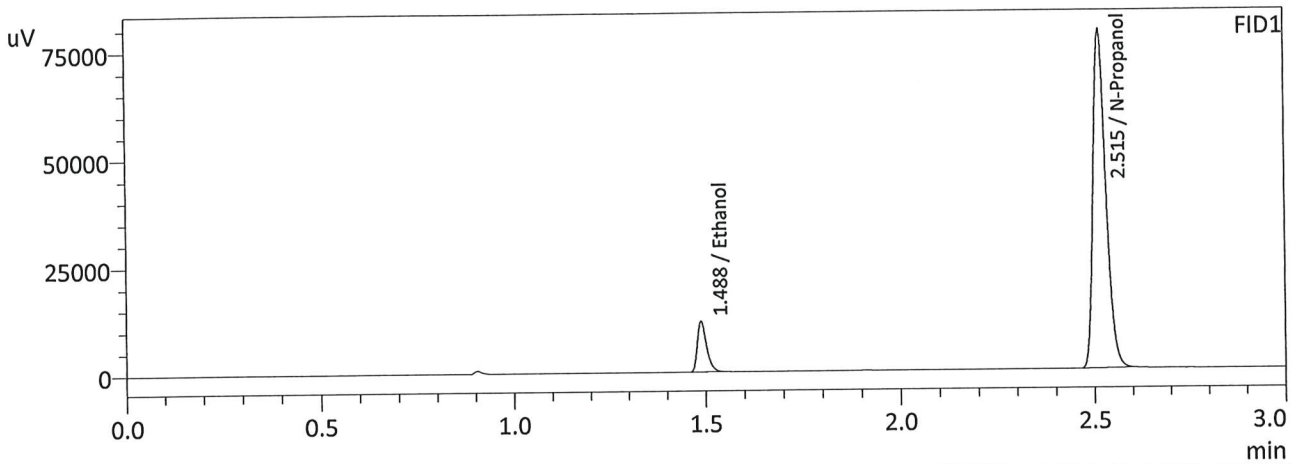
#	Conc.	Area	Std. Conc.

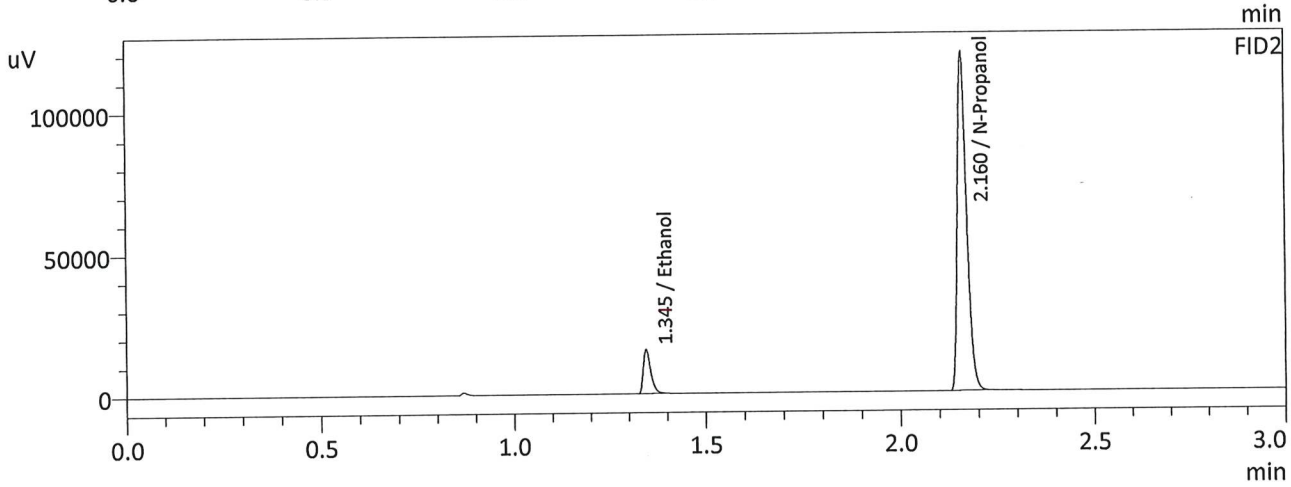


Name : Flour. Hydrocarbon(s)
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.

Sample Name : 0.050
Laboratory : Meridian
Injection Date : 12/21/2023 11:23:53 AM
Vial # : 1
Method Filename : Default Project - ALCOHOL_231221GG.gcm
Instrument #GC/HS : C12255750548 / C12595800409





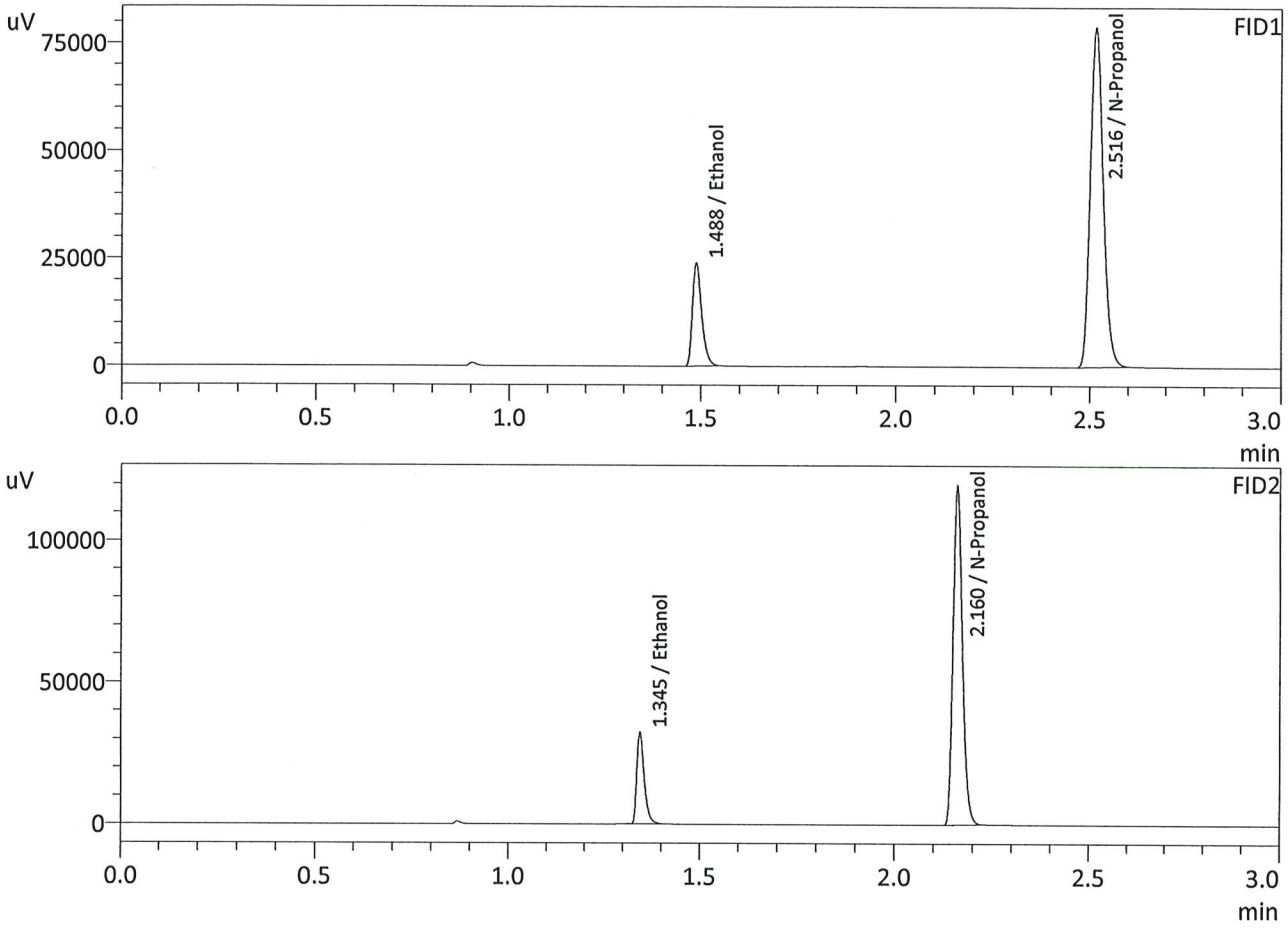
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0513	19643	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	183849	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0508	20908	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	198143	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.100
Laboratory : Meridian
Injection Date : 12/21/2023 11:31:12 AM
Vial # : 2
Method Filename : Default Project - ALCOHOL_231221GG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



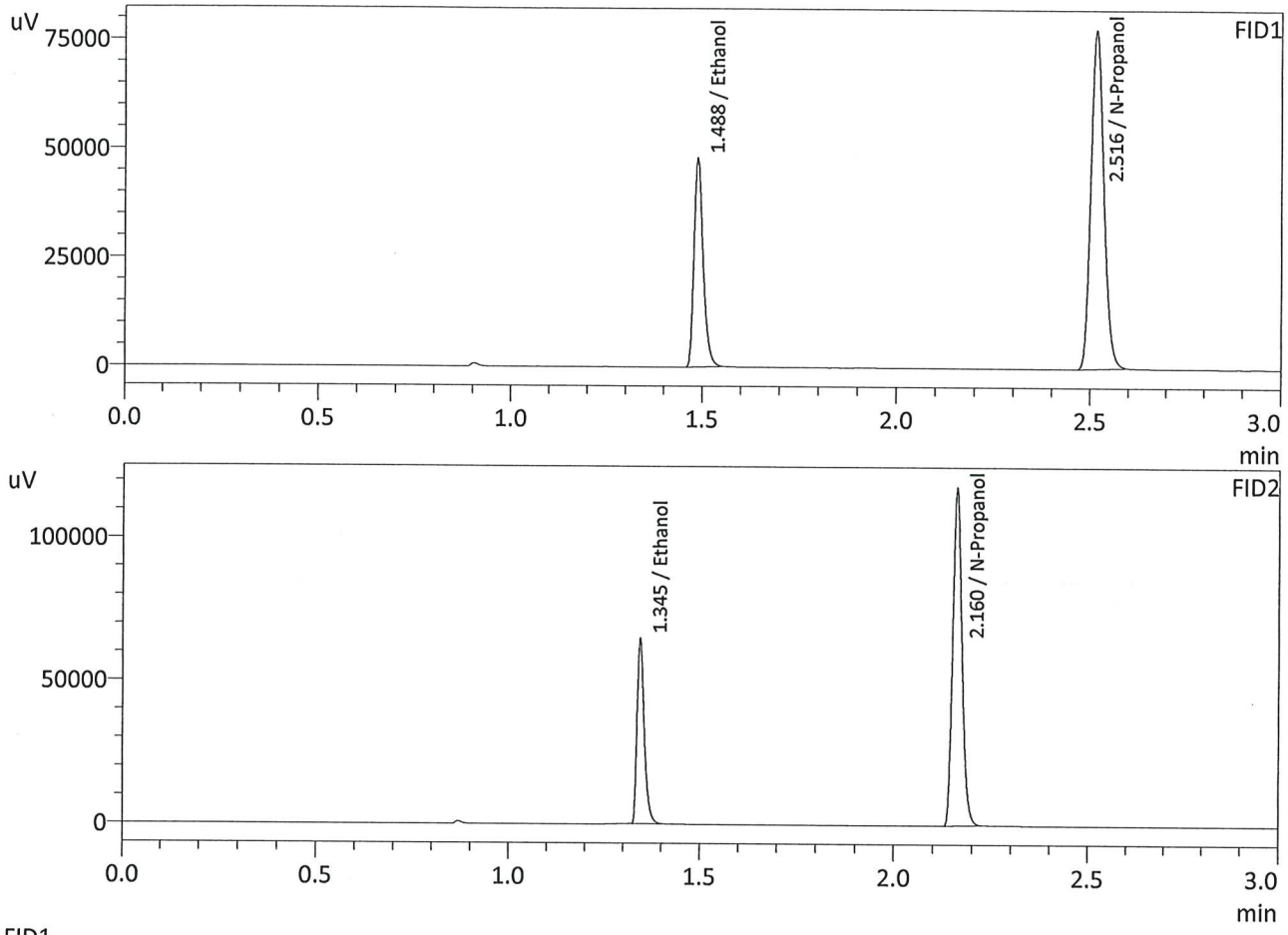
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1001	39791	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	184039	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1008	43302	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	198292	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.200
Laboratory : Meridian
Injection Date : 12/21/2023 11:38:33 AM
Vial # : 3
Method Filename : Default Project - ALCOHOL_231221GG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



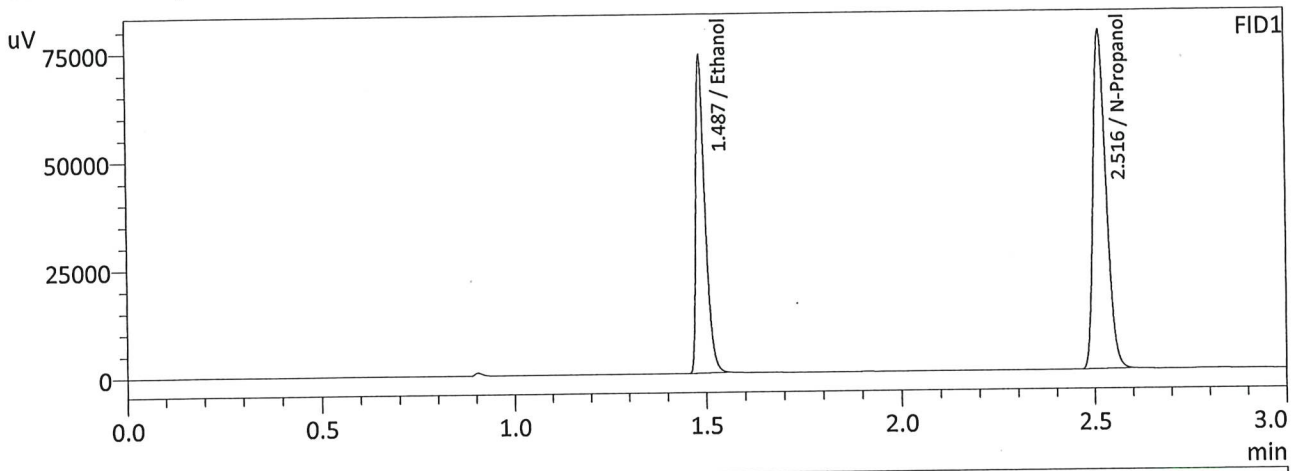
FID1

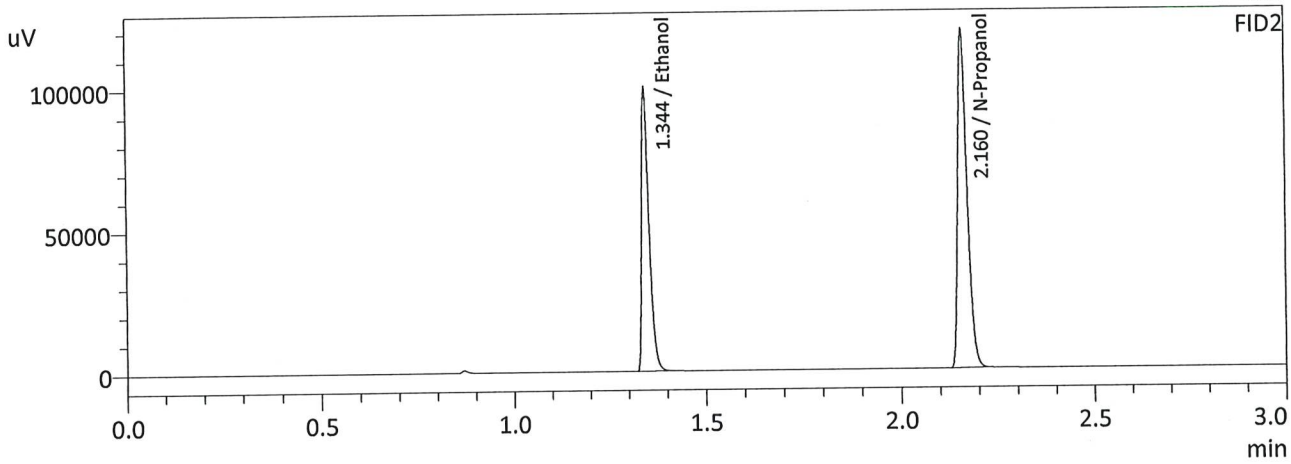
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1983	79273	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	181636	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1982	85796	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	195853	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.300
Laboratory : Meridian
Injection Date : 12/21/2023 11:47:28 AM
Vial # : 4
Method Filename : Default Project - ALCOHOL_231221GG.gcm
Instrument #GC/HS : C12255750548 / C12595800409





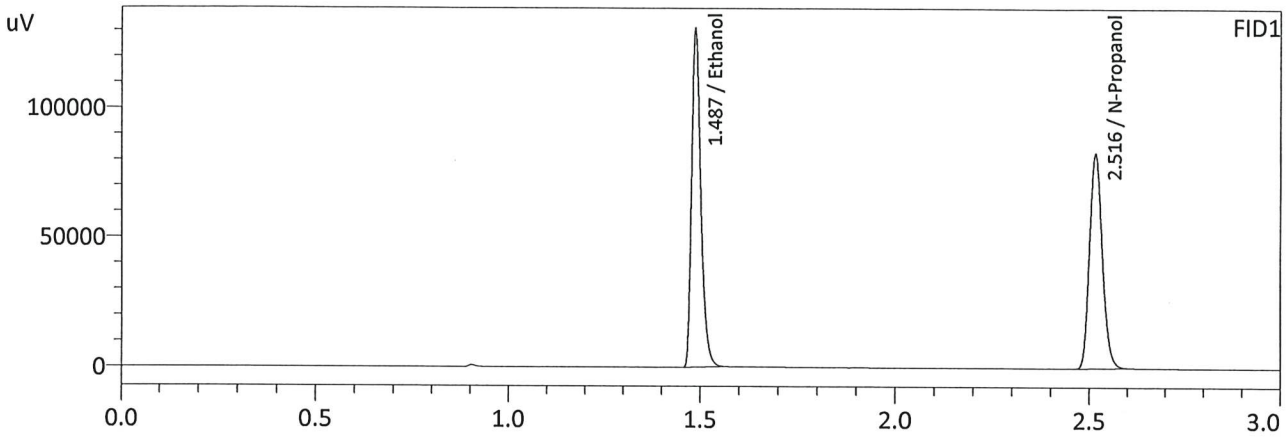
FID1

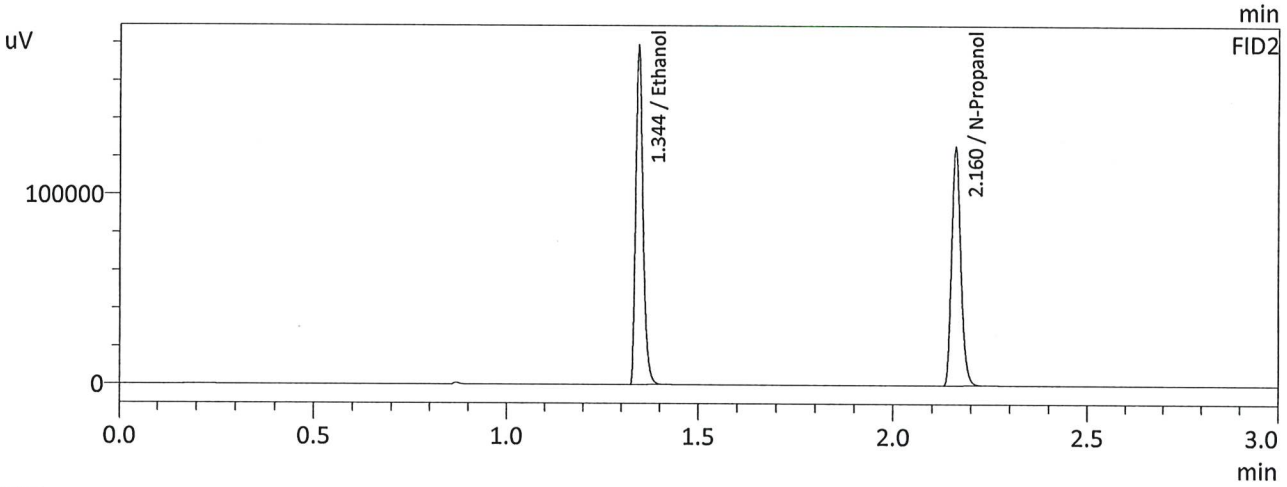
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2991	121379	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	183232	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2990	131435	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	197527	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.500
Laboratory : Meridian
Injection Date : 12/21/2023 11:55:55 AM
Vial # : 5
Method Filename : Default Project - ALCOHOL_231221GG.gcm
Instrument #GC/HS : C12255750548 / C12595800409





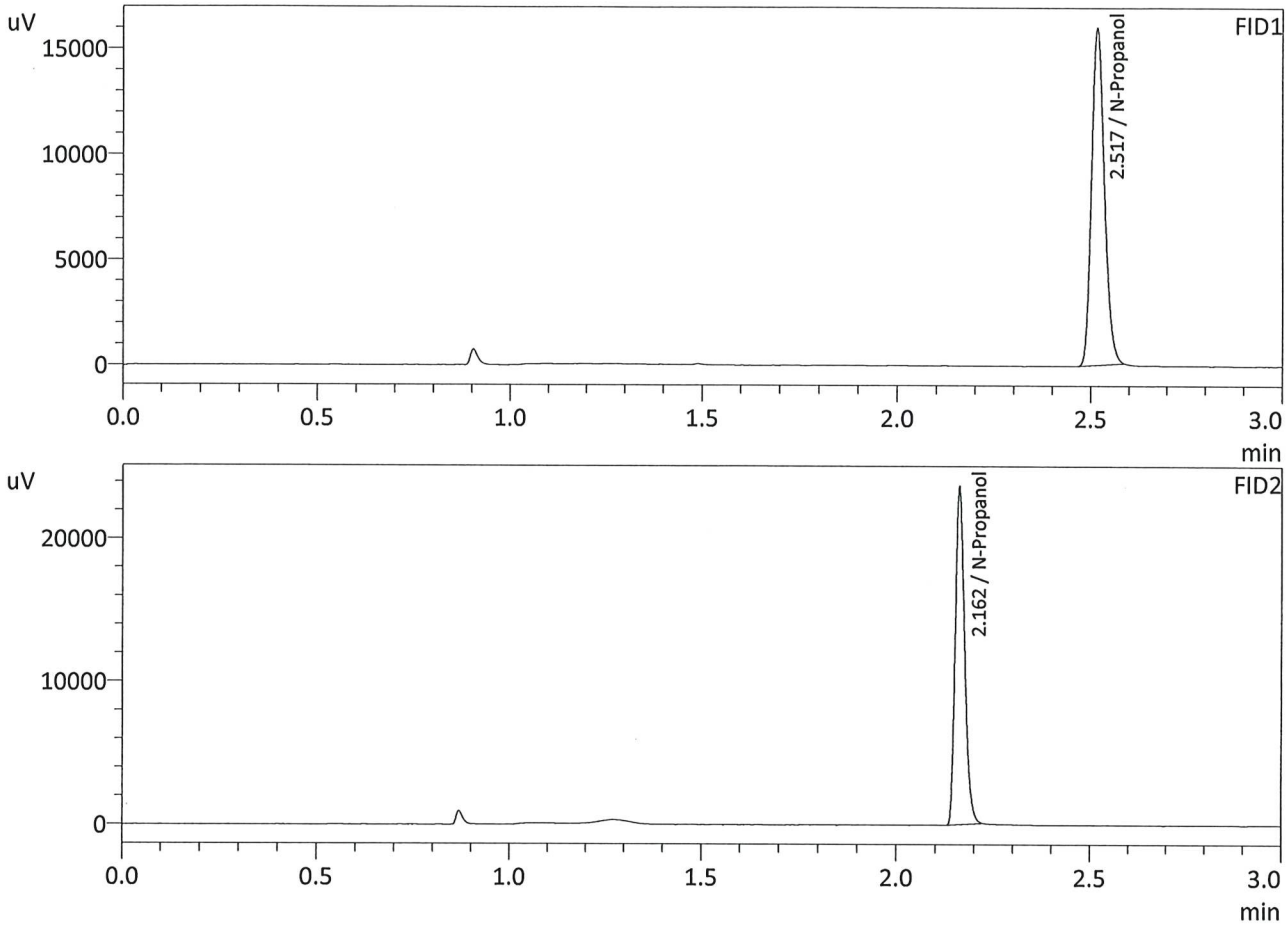
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5009	215162	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	192990	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5009	233453	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	208314	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : INT STD BLK
Laboratory : Meridian
Injection Date : 12/21/2023 12:03:19 PM
Vial # : 6
Method Filename : Default Project - ALCOHOL_231221GG.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	37546	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

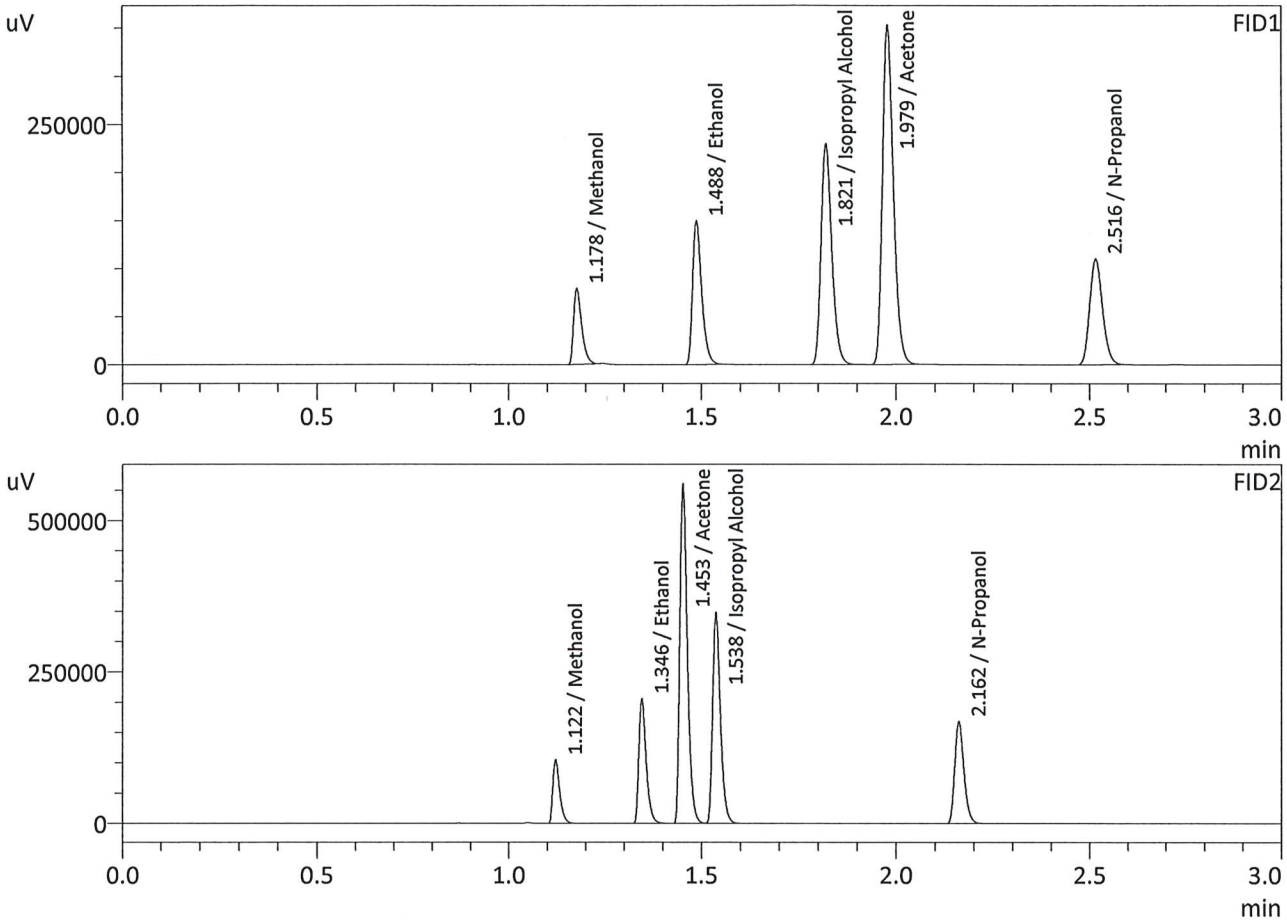
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	39969	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Meridian Blood Alcohol Analysis Batch Table

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

Vial#	Sample Name	Sample Type	Level#	Method File
1	ISTD BLK 1	0:Unknown	0	ALCOHOL 231221GG.gcm
2	ED VOLATILES FN 0604	0:Unknown	1	ALCOHOL 231221GG.gcm
3	QC-1-1	0:Unknown	0	ALCOHOL 231221GG.gcm
4	QC-1-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
5	0.08 QA	0:Unknown	0	ALCOHOL 231221GG.gcm
6	0.08 QA-B	0:Unknown	0	ALCOHOL 231221GG.gcm
7	M2023-5240-1	0:Unknown	0	ALCOHOL 231221GG.gcm
8	M2023-5240-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
9	M2023-5248-1	0:Unknown	0	ALCOHOL 231221GG.gcm
10	M2023-5248-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
11	M2023-5277-1	0:Unknown	0	ALCOHOL 231221GG.gcm
12	M2023-5277-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
13	M2023-5287-1	0:Unknown	0	ALCOHOL 231221GG.gcm
14	M2023-5287-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
15	M2023-5300-1	0:Unknown	0	ALCOHOL 231221GG.gcm
16	M2023-5300-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
17	M2023-5304-1	0:Unknown	0	ALCOHOL 231221GG.gcm
18	M2023-5304-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
19	M2023-5305-1	0:Unknown	0	ALCOHOL 231221GG.gcm
20	M2023-5305-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
21	M2023-5306-1	0:Unknown	0	ALCOHOL 231221GG.gcm
22	M2023-5306-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
23	M2023-5317-1	0:Unknown	0	ALCOHOL 231221GG.gcm
24	M2023-5317-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
25	QC-2-1	0:Unknown	0	ALCOHOL 231221GG.gcm
26	QC-2-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
27	M2023-5329-1	0:Unknown	0	ALCOHOL 231221GG.gcm
28	M2023-5329-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
29	M2023-5334-1	0:Unknown	0	ALCOHOL 231221GG.gcm
30	M2023-5334-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
31	M2023-5343-1	0:Unknown	0	ALCOHOL 231221GG.gcm
32	M2023-5343-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
33	M2023-5344-1	0:Unknown	0	ALCOHOL 231221GG.gcm
34	M2023-5344-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
35	M2023-5366-1	0:Unknown	0	ALCOHOL 231221GG.gcm
36	M2023-5366-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
37	M2023-5383-1	0:Unknown	0	ALCOHOL 231221GG.gcm
38	M2023-5383-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
39	M2023-5395-1	0:Unknown	0	ALCOHOL 231221GG.gcm
40	M2023-5395-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
41	M2023-5407-1	0:Unknown	0	ALCOHOL 231221GG.gcm
42	M2023-5407-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
43	M2023-5419-1	0:Unknown	0	ALCOHOL 231221GG.gcm
44	M2023-5419-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
45	M2023-5420-1	0:Unknown	0	ALCOHOL 231221GG.gcm
46	M2023-5420-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
47	QC-1-2	0:Unknown	0	ALCOHOL 231221GG.gcm
48	QC-1-2-B	0:Unknown	0	ALCOHOL 231221GG.gcm
49	M2023-5421-1	0:Unknown	0	ALCOHOL 231221GG.gcm
50	M2023-5421-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
51	M2023-5422-1	0:Unknown	0	ALCOHOL 231221GG.gcm
52	M2023-5422-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
53	M2023-5423-1	0:Unknown	0	ALCOHOL 231221GG.gcm
54	M2023-5423-1-B	0:Unknown	0	ALCOHOL 231221GG.gcm
55	QC-2-2	0:Unknown	0	ALCOHOL 231221GG.gcm
56	QC-2-2-B	0:Unknown	0	ALCOHOL 231221GG.gcm
57	ISTD BLK 2	0:Unknown	0	ALCOHOL 231221GG.gcm

Sample Name : MIXED VOLATILES FN 06041902
Laboratory : Meridian
Injection Date : 12/21/2023 1:10:32 PM
Vial # : 2
Method Filename : Default Project - ALCOHOL_231221GG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	0.0000	115355	g/100cc
Ethanol	0.4344	246493	g/100cc
Isopropyl Alcohol	0.0000	445301	g/100cc
Acetone	0.0000	691232	g/100cc
N-Propanol	0.0000	255260	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	0.0000	129985	g/100cc
Ethanol	0.4359	269764	g/100cc
Acetone	0.0000	752805	g/100cc
Isopropyl Alcohol	0.0000	481805	g/100cc
N-Propanol	0.0000	276980	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: 0.08 QA **Analysis Date(s): 12/21/2023 1:34:29 PM(-07:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0803	0.0801	0.0002	0.0802	0.0010	0.0807
(g/100cc)	0.0815	0.0810	0.0005	0.0812		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information — Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_231221GG.gcm

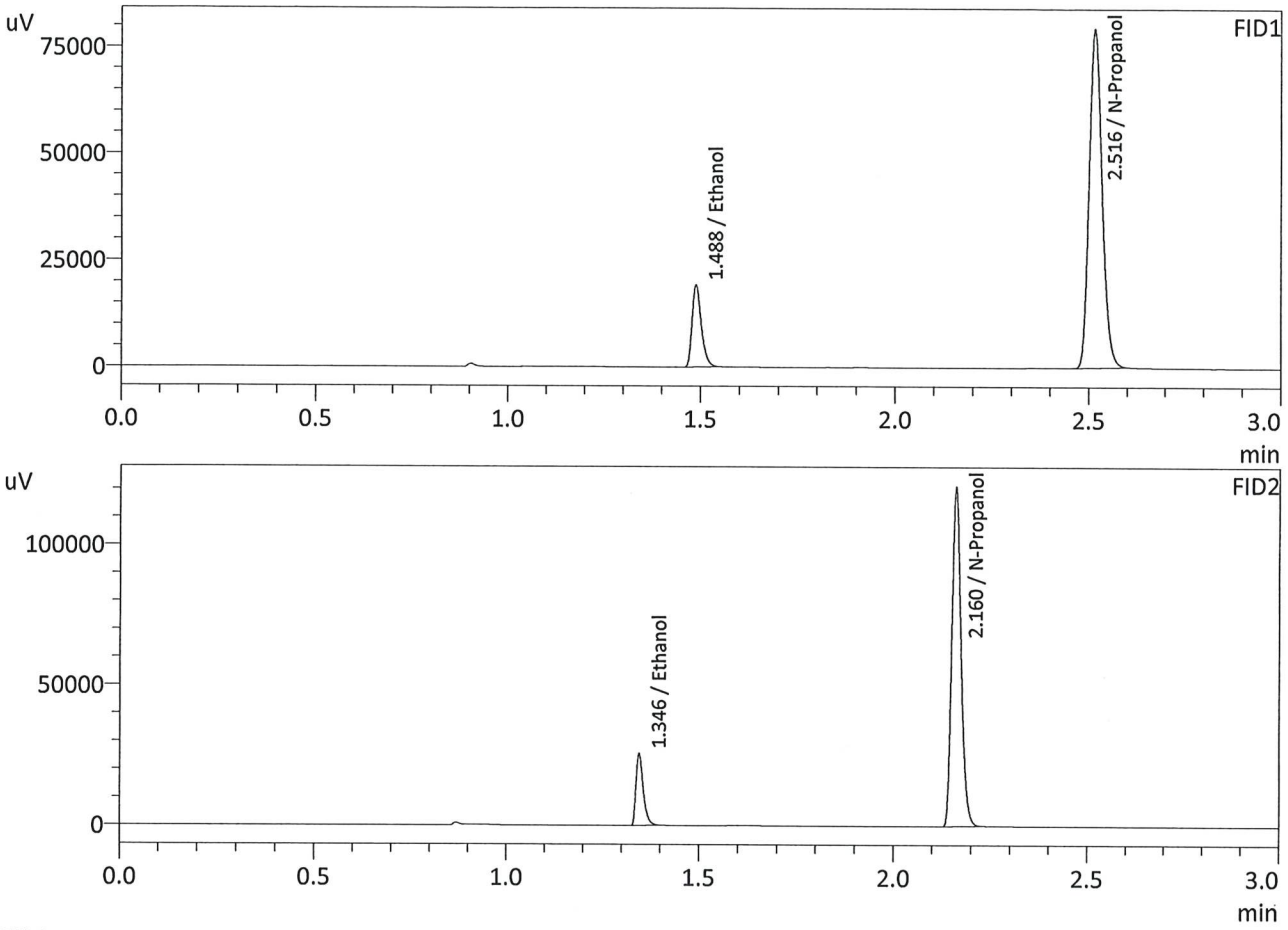
Reporting of Results	Uncertainty of Measurements (UM%):	5.00%

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 : 0.08 QA
Laboratory : Meridian
Injection Date : 12/21/2023 1:34:29 PM
Vial # : 5
Method Filename : Default Project - ALCOHOL_231221GG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

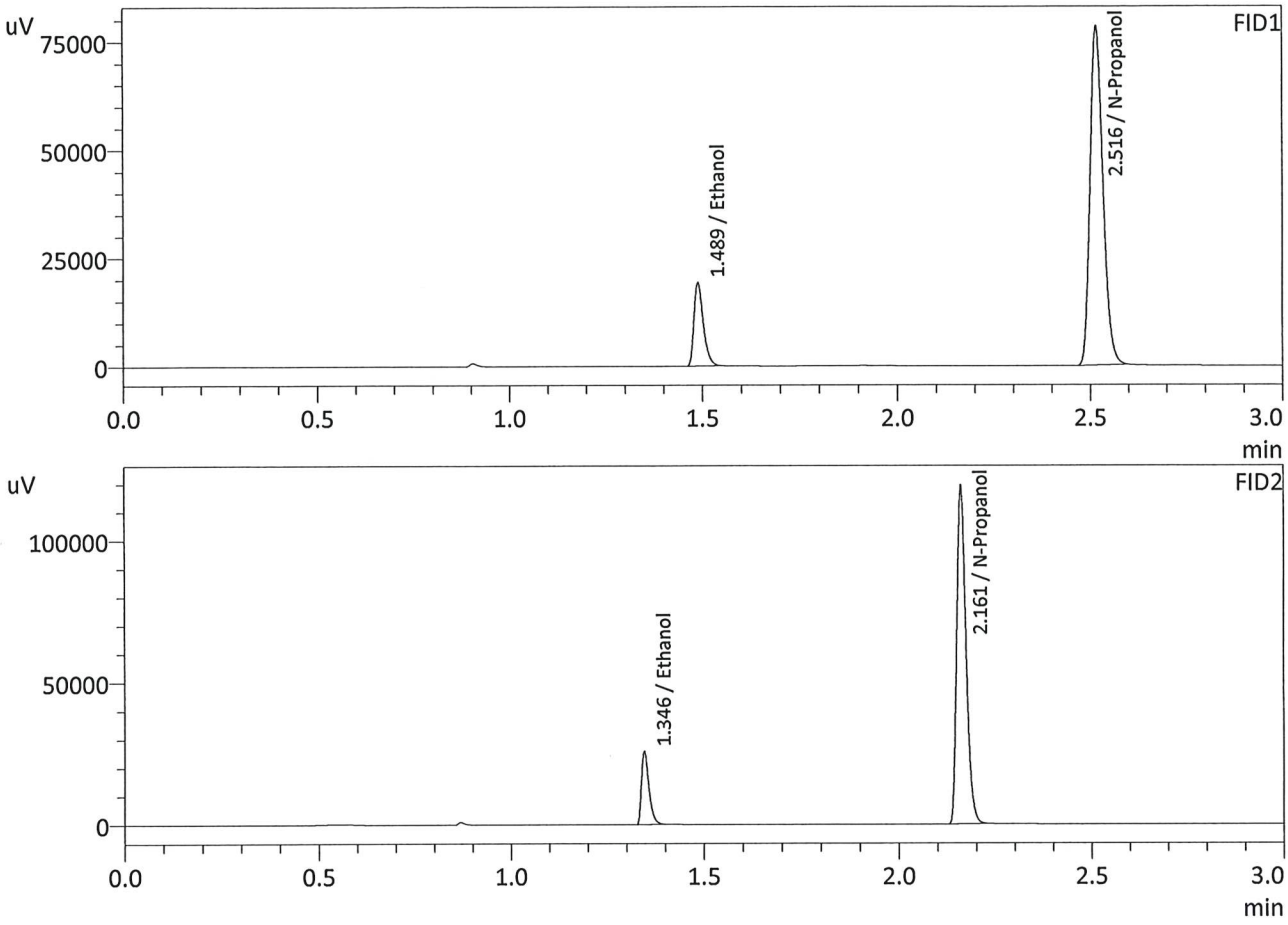
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0803	31821	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	185186	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0801	34368	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	200244	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

lw

Sample Name : 0.08 QA-B
Laboratory : Meridian
Injection Date : 12/21/2023 1:42:35 PM
Vial # : 6
Method Filename : Default Project - ALCOHOL_231221GG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0815	31971	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	183102	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0810	34367	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	197936	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-1-1 **Analysis Date(s): 12/21/2023 1:17:53 PM(-07:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0780	0.0776	0.0004	0.0778	0.0003	0.0779
(g/100cc)	0.0783	0.0779	0.0004	0.0781		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information — Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_231221GG.gcm

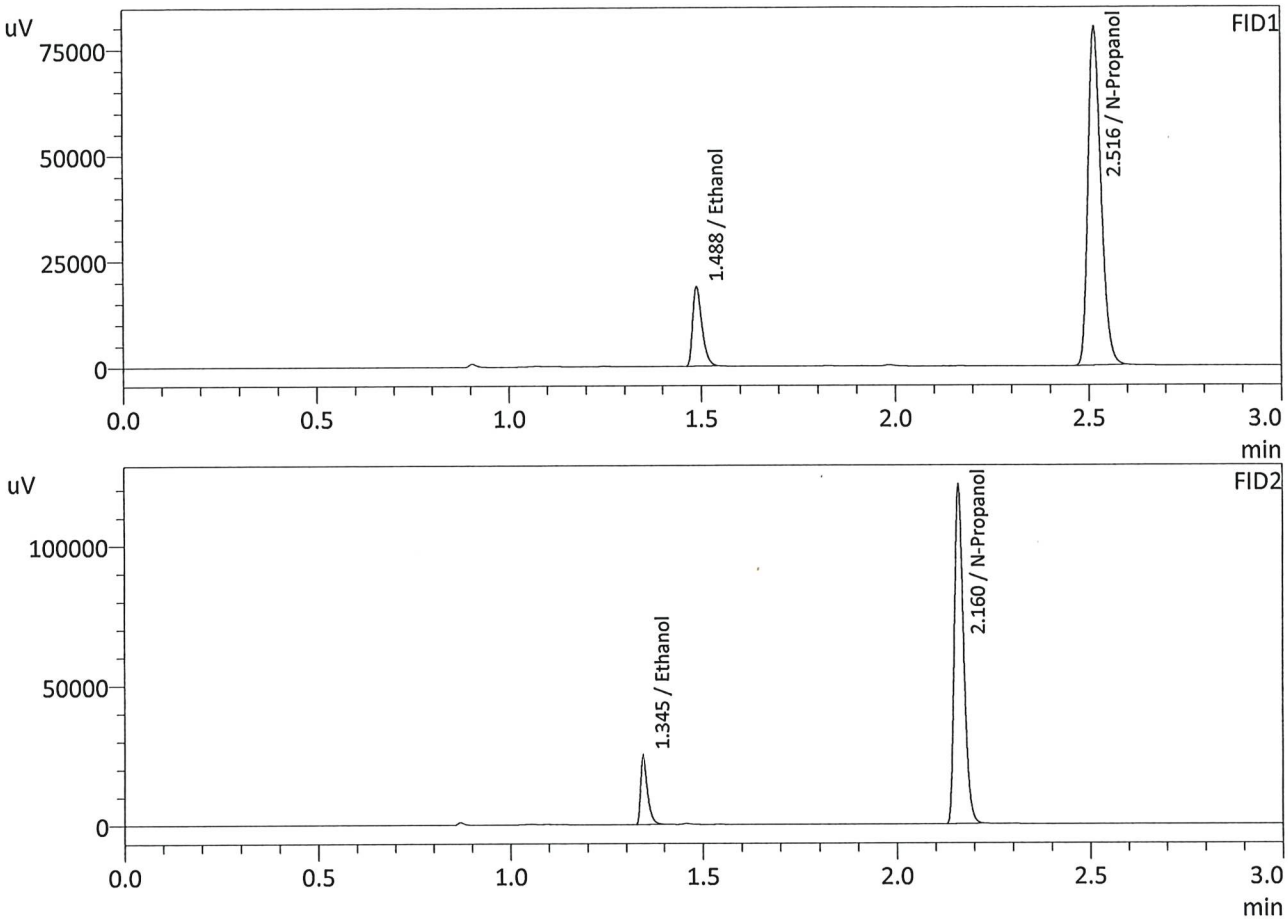
Reporting of Results	Uncertainty of Measurements (UM%):	5.00%

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.

Sample Name : QC-1-1
Laboratory : Meridian
Injection Date : 12/21/2023 1:17:53 PM
Vial # : 3
Method Filename : Default Project - ALCOHOL_231221GG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



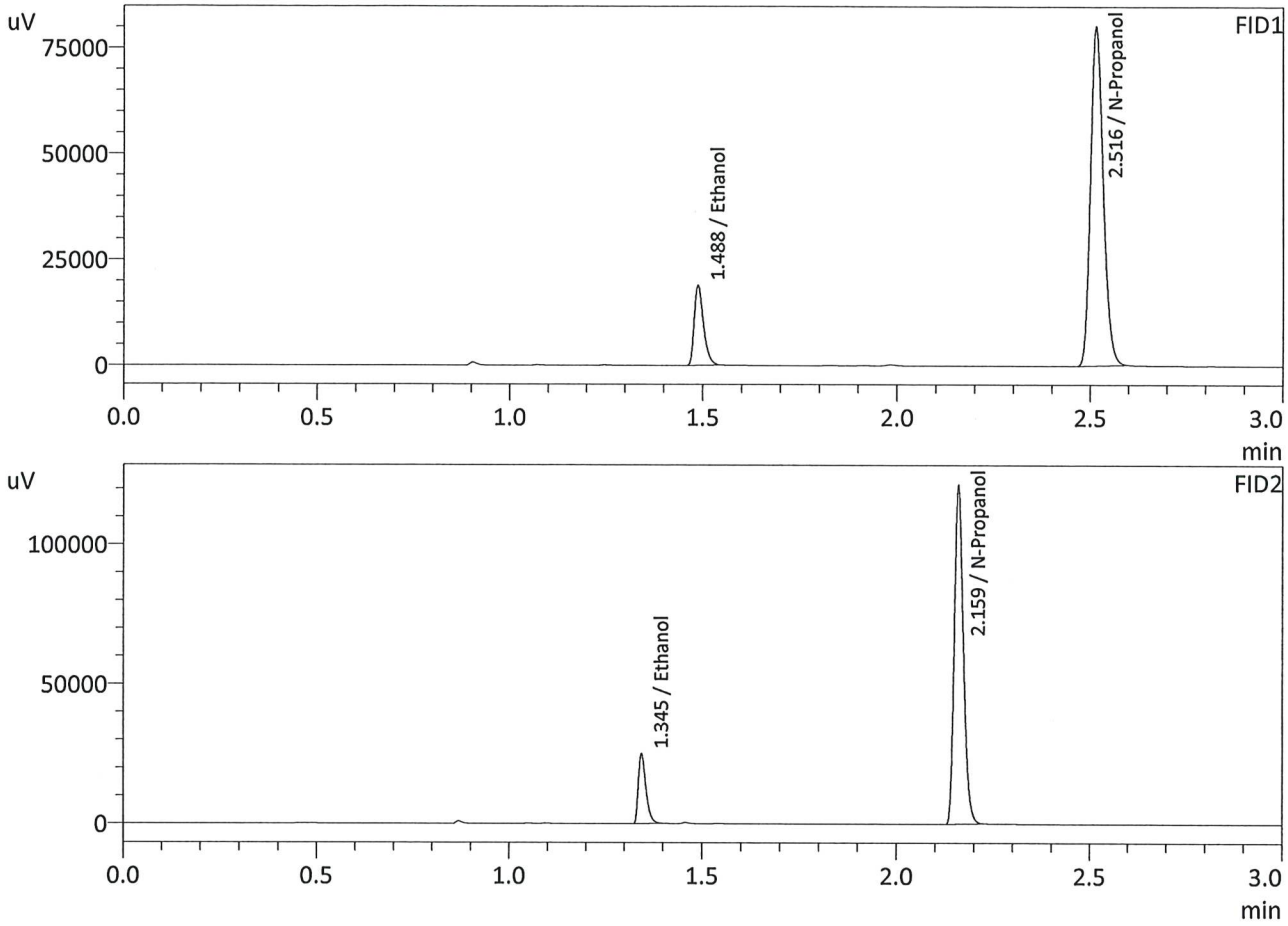
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0780	31049	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	186255	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0776	33395	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	201059	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : QC-1-1-B
Laboratory : Meridian
Injection Date : 12/21/2023 1:26:46 PM
Vial # : 4
Method Filename : Default Project - ALCOHOL_231221GG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0783	31268	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	186862	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0779	33580	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	201269	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-1-2 **Analysis Date(s): 12/21/2023 7:19:34 PM(-07:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0835	0.0830	0.0005	0.0832	0.0011	0.0826
(g/100cc)	0.0823	0.0819	0.0004	0.0821		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information — Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_231221GG.gcm

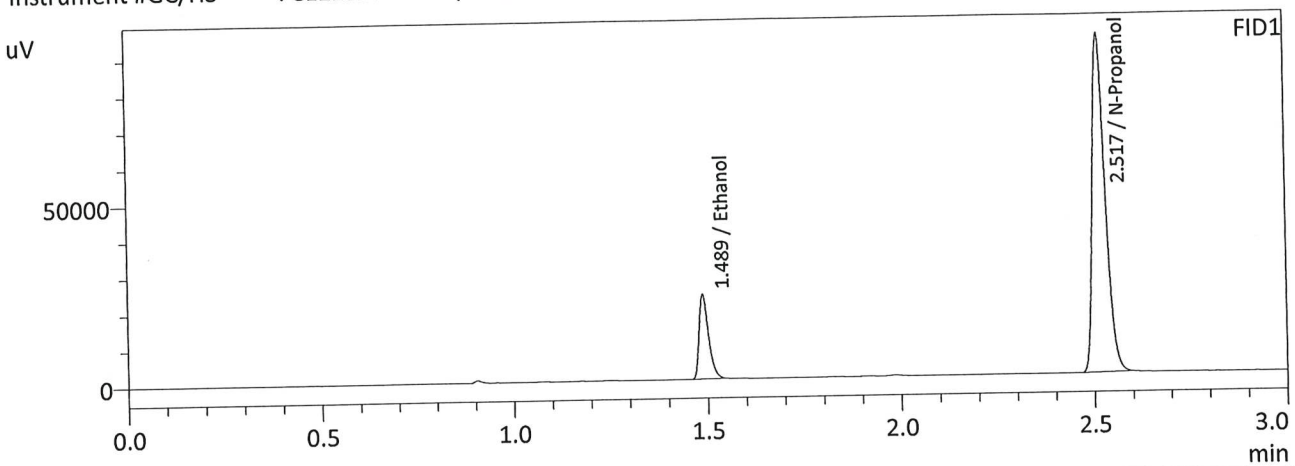
Reporting of Results	Uncertainty of Measurements (UM%):	5.00%

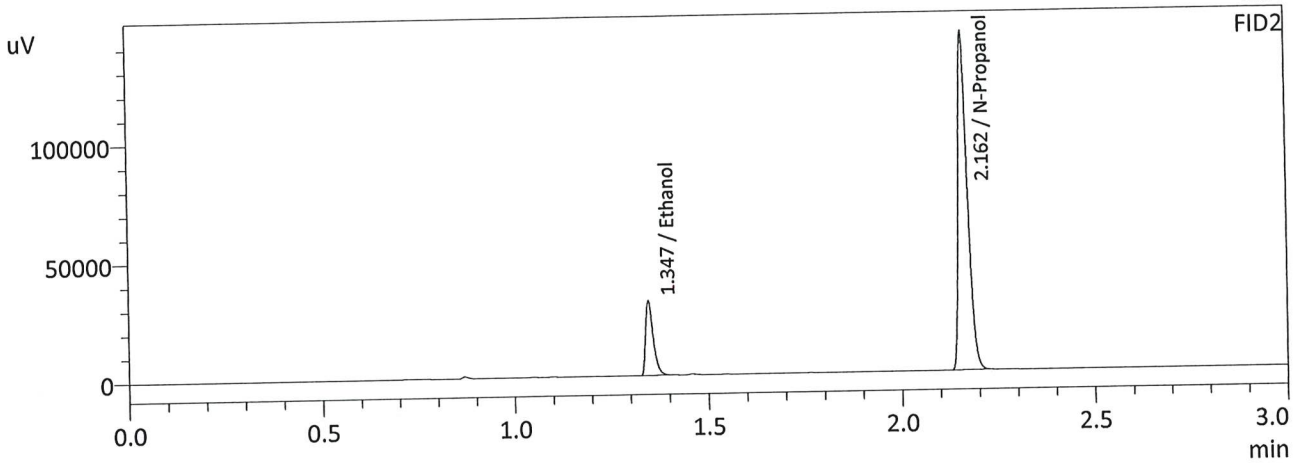
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.082	0.077	0.087	0.005

Reported Results
0.082

Calibration and control data are stored centrally.

Sample Name : QC-1-2
Laboratory : Meridian
Injection Date : 12/21/2023 7:19:34 PM
Vial # : 47
Method Filename : Default Project - ALCOHOL_231221GG.gcm
Instrument #GC/HS : C12255750548 / C12595800409





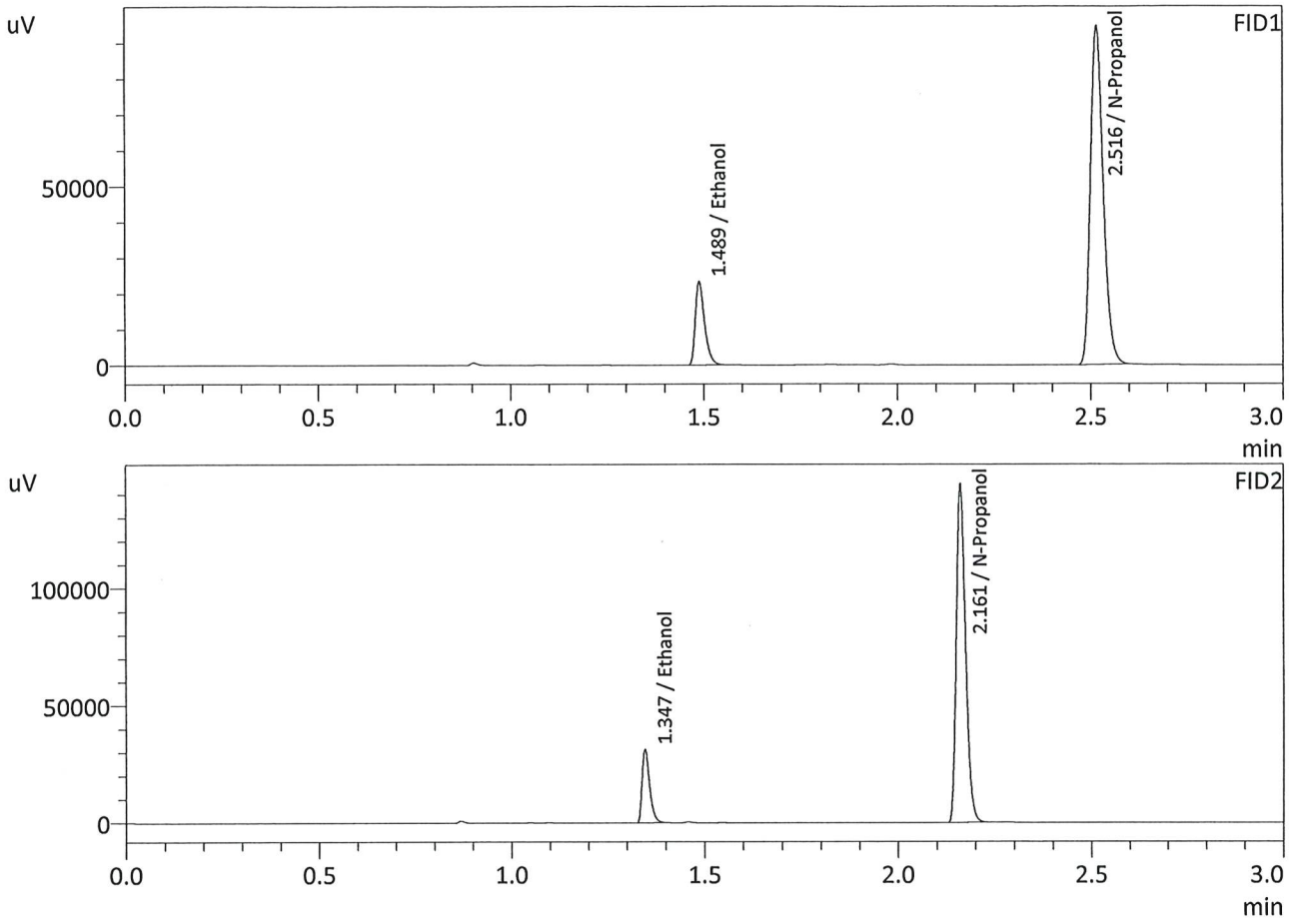
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0835	39090	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	218263	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0830	42174	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	236615	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : QC-1-2-B
Laboratory : Meridian
Injection Date : 12/21/2023 7:28:53 PM
Vial # : 48
Method Filename : Default Project - ALCOHOL_231221GG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0823	38948	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	220727	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0819	42016	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	239020	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-2-1 **Analysis Date(s): 12/21/2023 4:18:12 PM(-07:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2050	0.2044	0.0006	0.2047	0.0018	0.2056
(g/100cc)	0.2068	0.2063	0.0005	0.2065		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information — Instrument information is stored centrally.

Refer To Instrument Method: ALCOHOL_231221GG.gcm

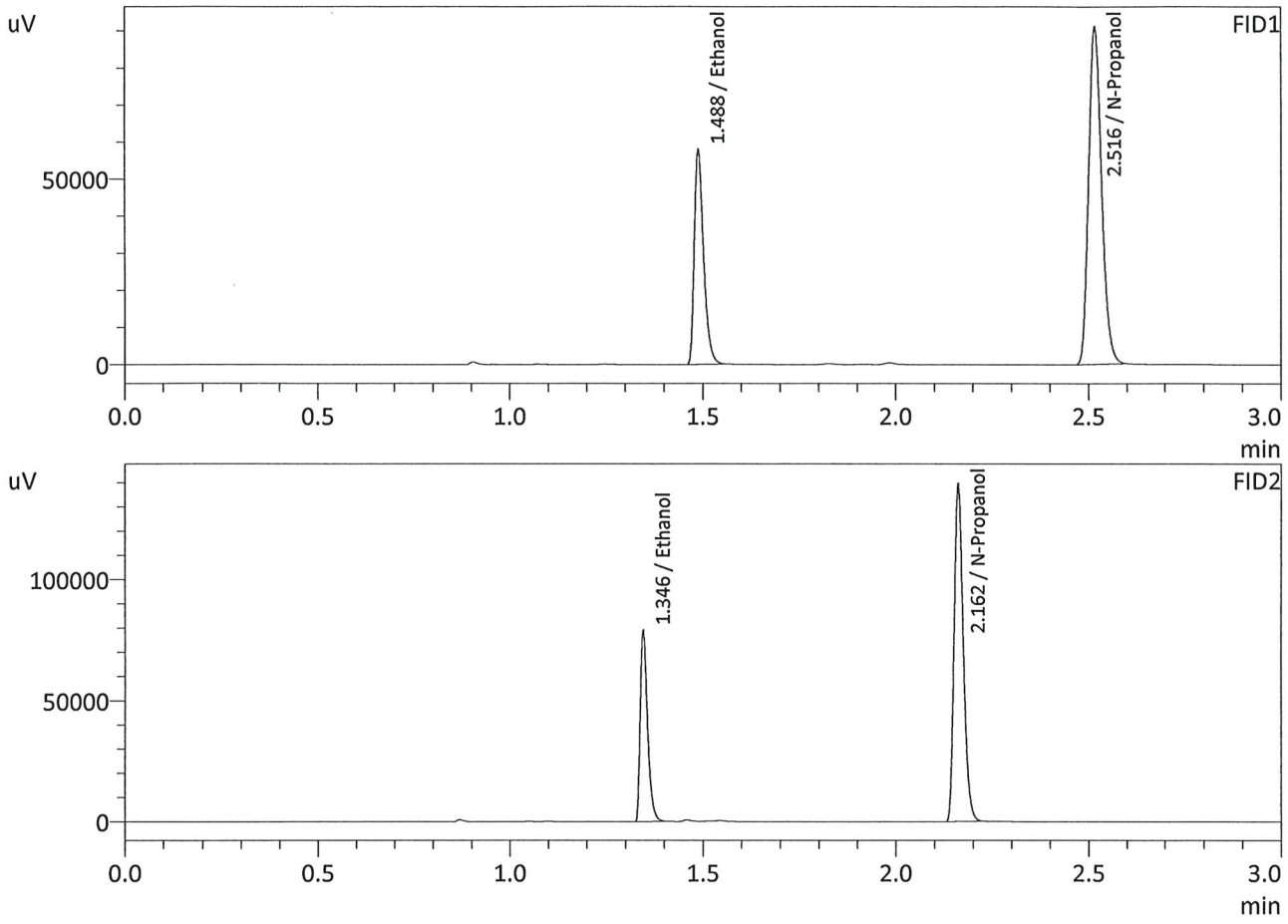
Reporting of Results	Uncertainty of Measurements (UM%):	5.00%

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-2-1
Laboratory : Meridian
Injection Date : 12/21/2023 4:18:12 PM
Vial # : 25
Method Filename : Default Project - ALCOHOL_231221GG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



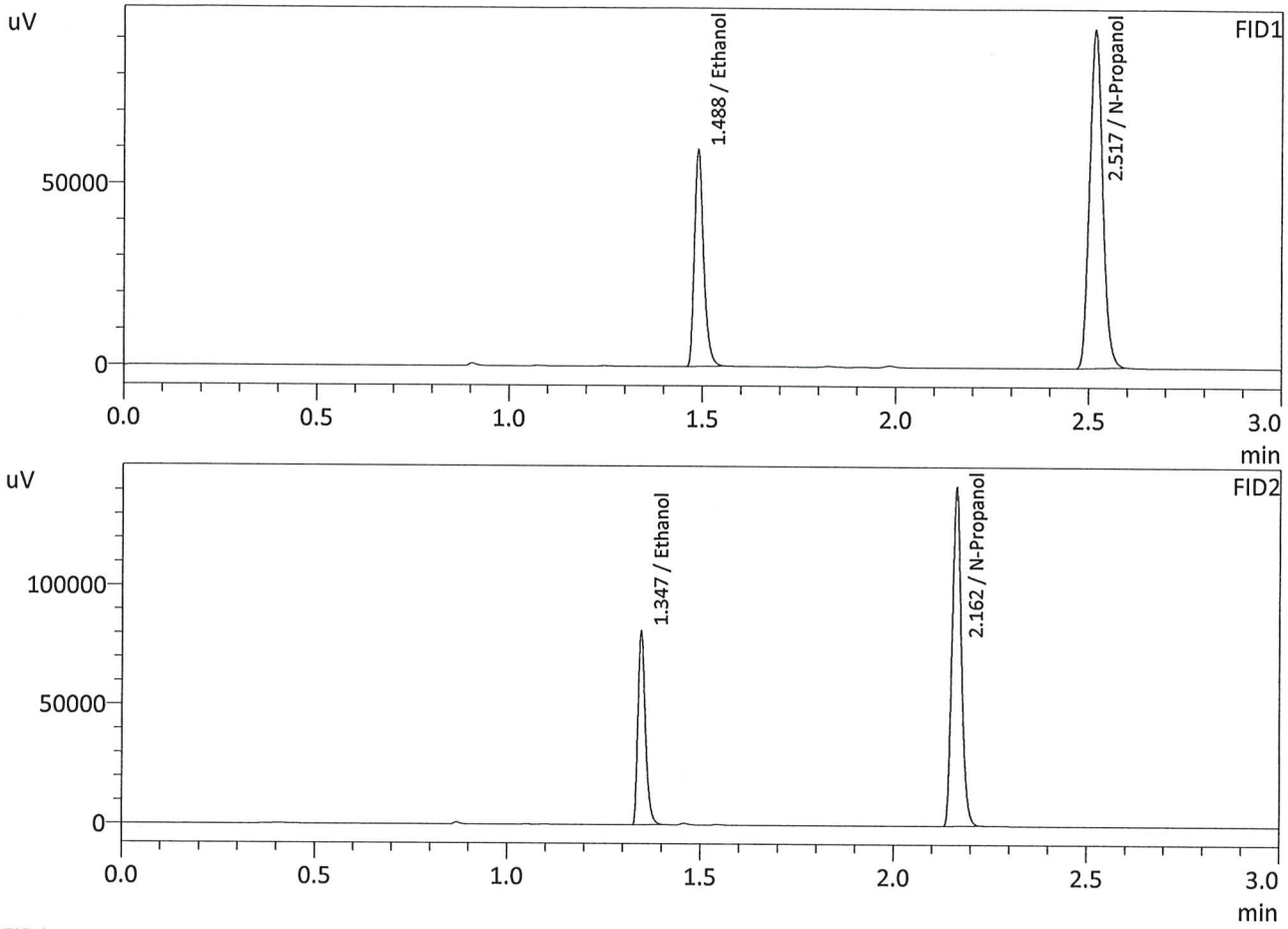
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2050	96121	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	212947	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2044	104247	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	230647	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : QC-2-1-B
Laboratory : Meridian
Injection Date : 12/21/2023 4:27:08 PM
Vial # : 26
Method Filename : Default Project - ALCOHOL_231221GG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2068	98944	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	217284	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2063	107402	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	235340	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-2-2 **Analysis Date(s): 12/21/2023 8:25:50 PM(-07:00)**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2082	0.2081	0.0001	0.2081	0.0013	0.2088
(g/100cc)	0.2097	0.2092	0.0005	0.2094		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information — Instrument information is stored centrally.

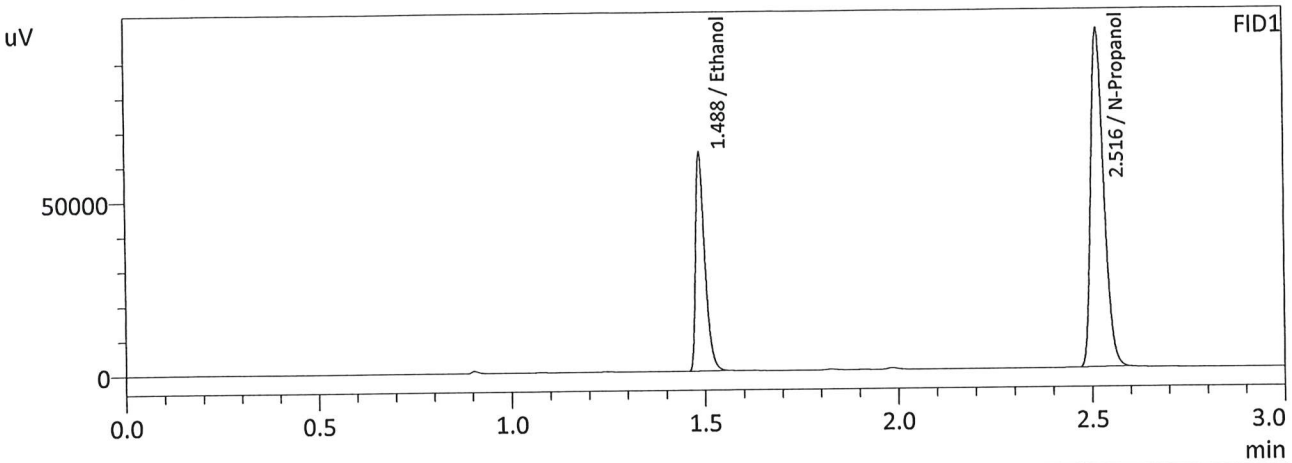
Refer To Instrument Method: ALCOHOL_231221GG.gcm

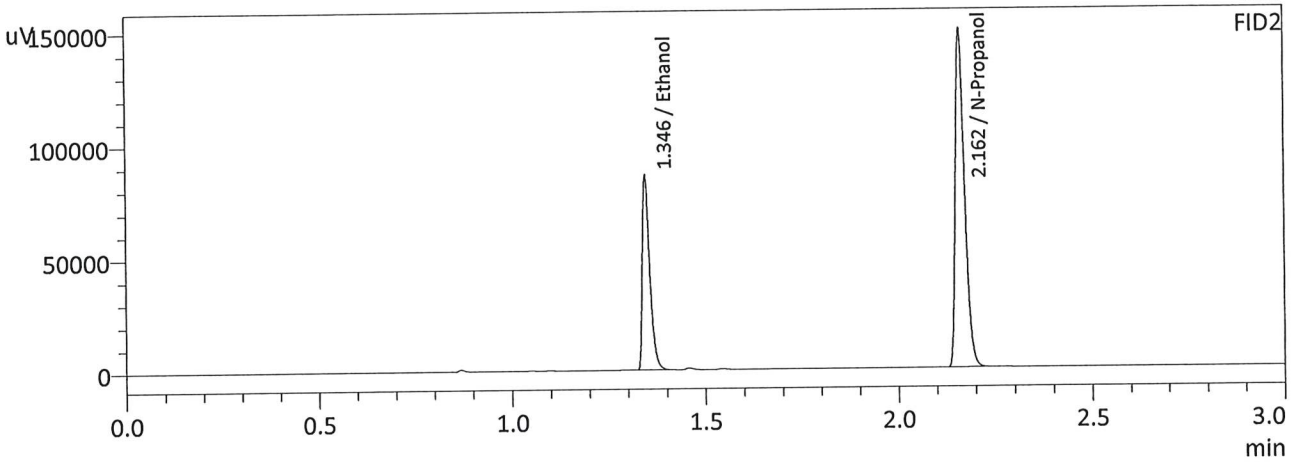
Reporting of Results	Uncertainty of Measurements (UM%):	5.00%
Overall Mean (g/100cc)	Low	High	5 % of Mean
0.208	0.197	0.219	0.011

Reported Results
0.208

Calibration and control data are stored centrally.

Sample Name : QC-2-2
Laboratory : Meridian
Injection Date : 12/21/2023 8:25:50 PM
Vial # : 55
Method Filename : Default Project - ALCOHOL_231221GG.gcm
Instrument #GC/HS : C12255750548 / C12595800409





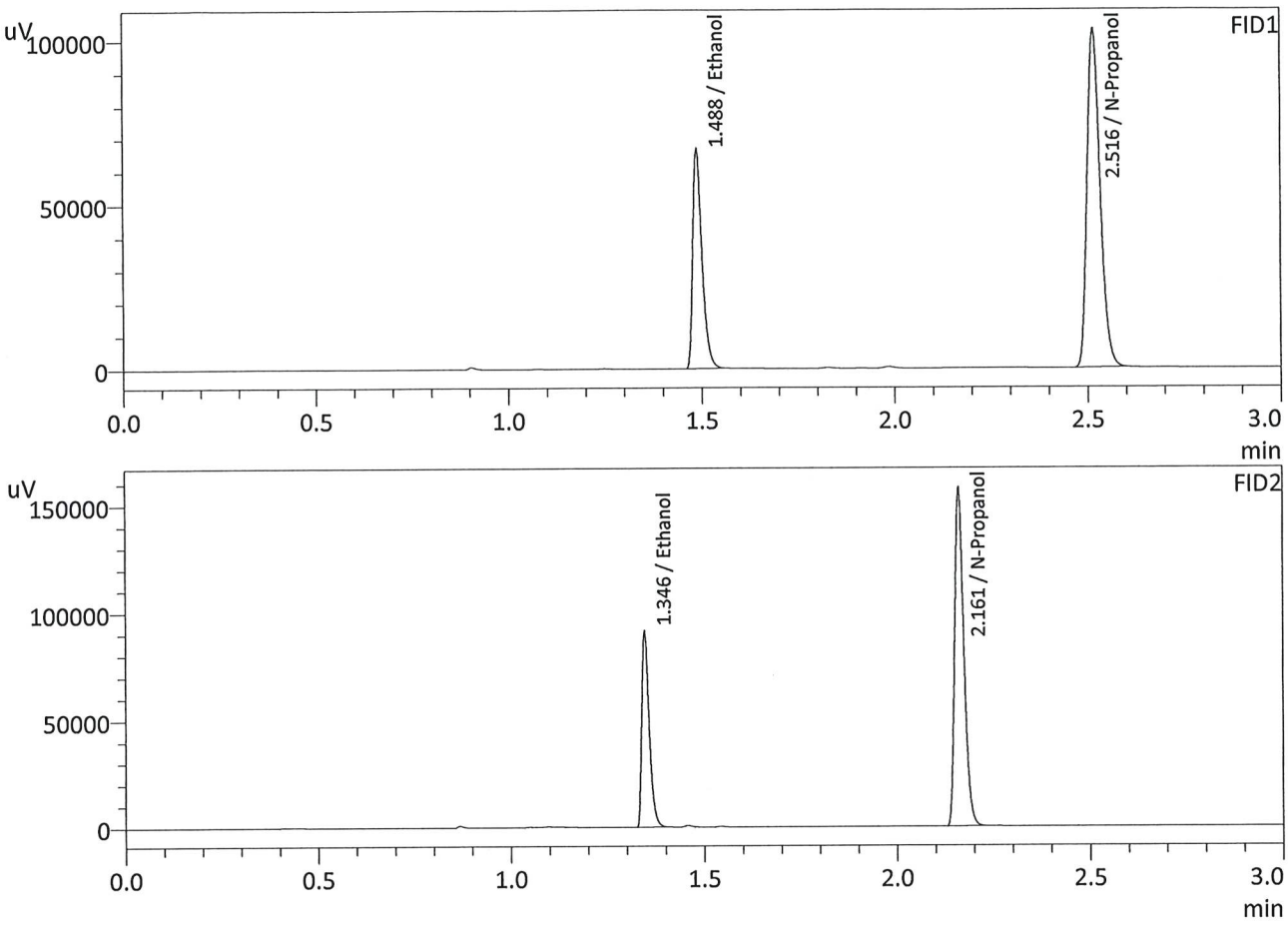
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2082	104714	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	228338	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2081	113823	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	247267	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : QC-2-2-B
Laboratory : Meridian
Injection Date : 12/21/2023 8:34:04 PM
Vial # : 56
Method Filename : Default Project - ALCOHOL_231221GG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



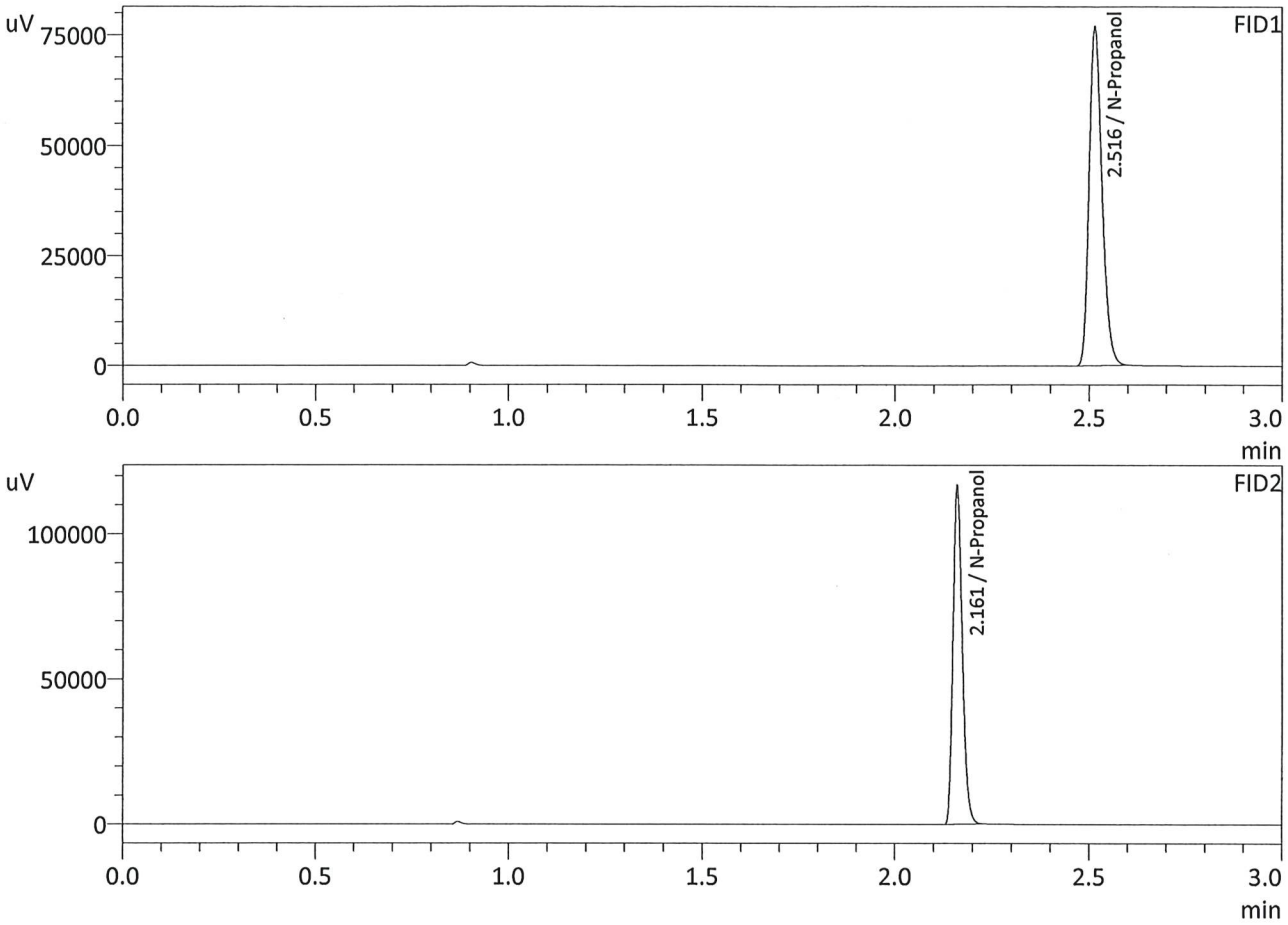
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2097	111006	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	240276	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2092	120564	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	260498	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : ISTD BLK 1
Laboratory : Meridian
Injection Date : 12/21/2023 1:03:12 PM
Vial # : 1
Method Filename : Default Project - ALCOHOL_231221GG.gcm
Instrument #GC/HS : C12255750548 / C12595800409



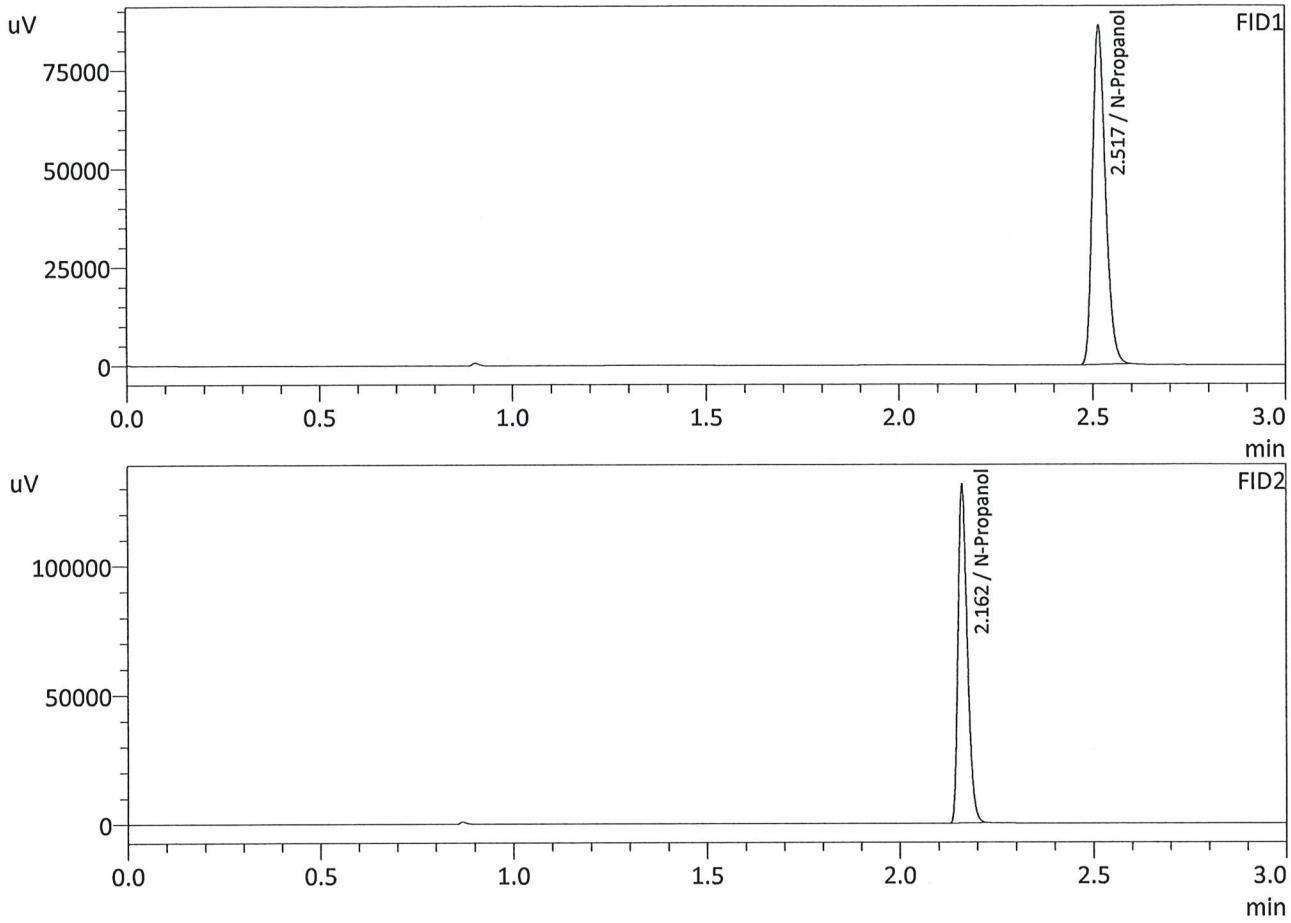
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	179136	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	193693	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc

Sample Name : ISTD BLK 2
Laboratory : Meridian
Injection Date : 12/21/2023 8:43:30 PM
Vial # : 57
Method Filename : Default Project - ALCOHOL_231221GG.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	201093	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	217695	g/100cc
Flour. Hydrocarbon(s)	--	--	g/100cc